PROJECT COMPLETION REPORT

EDDON BOAT PARK REMEDIAL ACTION ECOLOGY FACILITY SITE NO. 1301959 AGREED ORDER NO. DE 5597

Prepared for

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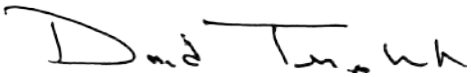
SIGNATURE PAGE



David Templeton, Anchor QEA, LLC

October 28, 2011

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LIST OF ACRONYMS AND ABBREVIATIONS

Abbreviation	Definition
µg/kg	microgram per kilogram
µg/L	microgram per liter
ACC	American Civil Constructors West Coast Inc.
AO	Agreed Order
AST	aboveground storage tank
BMP	Best Management Practice
CAP	Cleanup Action Plan
City	City of Gig Harbor
Corps	U.S. Army Corps of Engineers
cPAH	carcinogenic polycyclic aromatic hydrocarbons
DAHP	Department of Archaeology and Historic Preservation
DNR	Washington Department of Natural Resources
Ecology	Washington State Department of Ecology
EIM	Environmental Information Management
EPA	U.S. Environmental Protection Agency
ESA	Endangered Species Act
HPA	Hydraulic Project Approval
ICP	Institutional Control Plan
JARPA	Joint Aquatic Resource Permit Application
LTMP	Long Term Monitoring Plan
MDNS	Mitigated Determination of Nonsignificance
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MLLW	mean lower low water
MTCA	Model Toxics Control Act
NOAA	National Oceanic and Atmospheric Administration
PAH	polycyclic aromatic hydrocarbon
ppm	parts per million
Proposition No. 1	Proposition No. 1 Land Acquisition and Development General Obligation Bond

Abbreviation	Definition
RCW	Revised Code of Washington
Site	Eddon Boat Park Site
SMS	Sediment Management Standards
SMSDP	Shoreline Management Substantial Development Permit
SMU	Sediment Management Unit
SOP	Standard Operating Procedure
SQS	Sediment Quality Standards
TBT	tributyl tin
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	total toxicity equivalent
UST	underground storage tank
VCP	Voluntary Cleanup Program
WAC	Washington Administrative Code
WDFW	Washington Department of Fish and Wildlife
WQC	Water Quality Certification

1 INTRODUCTION

This Project Completion Report (Report) is being submitted by the City of Gig Harbor (City) in compliance with Section VII of Agreed Order (AO) No. 5597 for the Washington State Department of Ecology (Ecology) Facility No. 1301959 (Ecology 2008). This Report was due within 60 days of completion of sediment cleanup activities (February 2, 2009) and the submittal date was extended in writing to the completion of AHA-1 remediation activities. This Report summarizes the environmental remedial action activities described in the Cleanup Action Plan (CAP; Exhibit B to the AO) performed at the Eddon Boat Park Site (Site) and, in conjunction with implementation of the Ecology-approved Institutional Control Plan (ICP; Anchor QEA 2009a) and the Ecology-approved Long Term Monitoring Plan (LTMP; Anchor QEA 2009b), will meet the City's final obligations under the AO. With submittal of this Report, the City requests written approval that the only obligations remaining under the AO are the LTMP Year 4 and Year 5 visual monitoring.

The Site is located in Gig Harbor, Washington, at 3711 and 3805 Harborview Drive (Figure 1). The Site is recognized as a significant portion of the historic waterfront and designated as a prominent parcel in the City of Gig Harbor. In an effort to preserve this portion of the historic waterfront, the City acquired this property in 2005 to develop a waterfront park. In 2004, the residents of the City approved the $3.5 million Proposition No. 1 Land Acquisition and Development General Obligation Bond (Proposition No. 1) to preserve a portion of the historic waterfront known as the Eddon Boathouse property (Figure 1), now a locally registered structure. After completing a review of environmental conditions, the City purchased the Site in March 2005. To meet this objective, initial park development activities included necessary environmental cleanup and remediation of upland and aquatic portions of the Site while preserving a historical boathouse and related structures located on-site. Environmental remedial actions were coordinated and partially funded through the U.S. Environmental Protection Agency (EPA) Brownfield Cleanup Grant Program, Model Toxics Control Act (MTCA) Cleanup Grant, and the Washington Department of Natural Resources (DNR) creosote piling removal program.

To execute the environmental cleanup actions in an efficient and proactive manner, the City submitted an application under the Ecology Voluntary Cleanup Program (VCP) in late June 2005 and initiated a number of investigation and remedial actions documented in ten

technical memoranda. The City and Ecology entered into AO No. DE 5597 for the Site on August 8, 2008. The CAP was developed using information developed under the VCP process and was prepared to satisfy the requirements of the MTCA, Chapter 70.105D Revised Code of Washington (RCW), administered by Ecology under the MTCA Cleanup Regulation, Chapter 173-340 Washington Administrative Code (WAC).

The CAP involved dredging and capping (or enhanced natural recovery) of contaminated sediment, removal of contaminated soil in AHA-1, and bulkhead removal and regrading in area AG-9 (removing any contaminated layers potentially found). As part of the park development, the demolition and removal of existing marine and shoreline structures (a timber pier, two sets of boat haul-out rails, and a timber bulkhead) and the relocation of a floating dock, gangway, and carriage ways assembly occurred. Subsequent work activities permitted included reconstruction of the replacement pier, which was completed in October 2010, and replacement pilings for the marine railway, which is to be completed by early 2013. Intertidal and subtidal contaminated marine sediments were dredged, and some nearshore soils were excavated and disposed of. The timber bulkhead removal was required by Washington Department of Fish and Wildlife (WDFW) and incorporated the bulkhead removal and creation of new beach habitat as a requirement of the Hydraulic Project Approval (HPA). The land behind the bulkhead was reconfigured to a gentle slope down to the beach, and a clean layer of sand and habitat gravel was placed at the Site. With completion of the remedial actions, the LTMP and the ICP were implemented to ensure long-term compliance with the objectives of the AO.

The LTMP (Anchor QEA 2009b) is designed to:

- Verify that the sediment cap has remained functional and has not substantially eroded over time by natural and anthropogenic forces.
- Monitor the concentrations of total solids and tributyl tin (TBT) in porewater (or bulk sediment) during Year 3 in Sediment Management Unit (SMU) 2 (enhanced natural recovery area).
- Monitor concentrations of total mercury, total solids, total organic carbon, and TBT porewater (or bulk sediment if coarse-grained material cannot produce adequate porewater volume for analysis) in the sand layer of the capping material during Year 3 in SMU-3 (capped area).

Years 1, 2, and 3 have been completed at this time. Results of these events are summarized in Section 4.1.

The Ecology-approved ICP (Anchor QEA 2009a) described the following institutional controls:

- An Environmental Covenant to restrict use of SMU-3 (cap area) and AG-9.
- A Standard Operating Procedure (SOP) that instructs City Public Works employees to monitor and protect the restricted locations in order to prevent cap damage or contaminant exposure.
- Signage in both upland and waterway areas to notify visitors of restricted areas.

The Environmental Covenant was later amended to included restrictions on area AHA-1. Details regarding this area are provided in Section 3.4.1.

1.1 Purpose of Report

The purpose of this Report is to describe the cleanup action that has occurred at the Site and to demonstrate that the implementation of the cleanup action was consistent with the requirements specified in WAC 173-340-400, including consistency with:

- The CAP
- Accepted engineering practices
- The requirements specified in WAC 173-340-360

1.2 Site Description and Background

The Site consists of Pierce County tax parcels 022105-3074 and 02215-3050. It is about 3 acres in size, with roughly two-thirds of the land consisting of tidelands and subtidal lands. The Site is defined in Exhibit A of the AO. The Site includes the Eddon Boat Park property and a small portion of the immediately adjacent properties to the north.

Historically, the Site was a boatyard where boats were built from the 1940s until boatyard operations were terminated in 2003. The public recognizes that the Site has unique attributes, such as panoramic views of the harbor and proximity to eating establishments,

recreation, and other amenities, which make this an important park acquisition that preserves the historic character of Gig Harbor. The property has not been used as a boatyard since 2003.

Both upland and sediment areas were subject to multiple sampling and analysis investigations and were well characterized. Between 2005 and 2008, the City submitted several technical memoranda and other documents to Ecology summarizing sampling activities and interim remedial actions that have been taken at the Site (Exhibit C to the AO). Ecology recognized a number of the interim remedial actions completed at the Site, and these actions were determined to meet the substantive requirements of MTCA and required no further action in the AO. The remaining areas of concern (AHA-1, AG-9, and sediments) set forth in the CAP and outlined in the AO as requiring remedial actions were addressed as part of the cleanup action described in this Report. A summary of the Ecology-determined areas of concern set forth in the CAP and the associated remedial actions are presented in Table 1. Figure 2 identifies the Site areas.

Table 1
Summary of Eddon Boat Park Determined Areas of Concern and Remedial Action

Ecology-Determined Areas of Concern	Addressed Prior to AO	Remedial Action	Remedial Action Documentation	Ecology Approval Documentation
1. UST Near Residence	Yes	UST removal and soil excavation	Technical Memo No. 4	Ecology Opinion Letter (June 29, 2006)
2. AST Near Boat Shop	Yes	AST removal and soil sampling	Technical Memo No. 7	No opinion letter issued
3. AG-8 Area (Pandora)	Yes	Soil excavation	Technical Memo No. 4	Ecology Opinion Letter (June 29, 2006)
4. Fruit Tree and Yard	Yes	Soil sampling	Technical Memo No. 4	Ecology Opinion Letter (June 29, 2006)
5. Lower Terrace	Yes	Tank removal and soil sampling	Technical Memo No. 4	Ecology Opinion Letter (June 29, 2006)
6. Former Crane Area	Yes	No action required	Technical Memo No. 4	Ecology Site walk (March 20, 2006)
7. AHA-1 Area	No	Soil excavation	Cleanup Action Plan and Memorandum of Understanding (March 7, 2011)	Project Completion Report and Approval of Memorandum of Understanding (April 5, 2011)
8. AG-9 Area	No	Soil removal observations and disproportionality evaluation	Cleanup Action Plan	Project Completion Report
9. Site Groundwater	Yes	Groundwater sampling	Technical Memo No. 8	No opinion letter issued
10. Sediments	--	--		
SMU-1 (including AG-6)	No	Dredge and capping	March 2007 Revised Alternative B	Project Completion Report
SMU-2	No	Dredge and habitat mix	March 2007 Revised Alternative B	Project Completion Report
SMU-3	No	Sand capping and habitat mix	March 2007 Revised Alternative B	Project Completion Report

Notes:
UST underground storage tank
AST aboveground storage tank

1.3 Document Organization

This Report was prepared consistent with the requirements of the AO and the CAP. The Report document is organized as follows:

- Section 1 provides the context for the current Report, including a summary of the Site background and history.
- Section 2 provides an overview of the cleanup action elements as presented in the AO and CAP.
- Section 3 presents the implementation of the cleanup action.
- Section 4 presents the next steps.
- Section 5 lists references cited in the Report document.
- Appendices to the report contain the associated backup information. The report appendices are included on the attached DVD.

2 SUMMARY OF CLEANUP ACTION ELEMENTS

This section summarizes the cleanup requirements and basis for the selected remedial alternatives, set forth in the CAP. The main state law that governs the cleanup of contaminated sites is MTCA. MTCA regulations define the process for the investigation and cleanup of contaminated sites. When contaminated sediments are involved, the cleanup standards and other procedures are also regulated by the Sediment Management Standards (SMS), WAC 173-204. MTCA regulations specify criteria for the evaluation and conduct of a cleanup action. SMS regulations dictate the standards for sediment cleanup. Under both MTCA and SMS regulations, the cleanup must protect human health and the environment, meet state environmental standards and standards in other laws that apply, and provide for monitoring to confirm compliance with Site cleanup standards.

2.1 Cleanup Requirements

There were three types of requirements that were met by the cleanup of the Site:

- **Cleanup Levels:** A "cleanup level" is the concentration of a hazardous substance in soil, water, air, or sediment that is determined to be protective of human health and the environment under specified exposure conditions (WAC 173-340-200).
- **Point of Compliance:** The "Point of Compliance" defines the point or points on a site where cleanup levels must be met (WAC 173-340-200).
- **Applicable Local, State, and Federal Laws:** In addition to the requirements of SMS and MTCA, other laws apply to the cleanup.

For sediments, the SMS (WAC 173-204) govern the identification and cleanup of contaminated sediment sites. The primary cleanup levels (long-term goal) for the Site sediments are defined as the Sediment Quality Standards (SQS). There are no promulgated SMS criteria for TBT (ion), and there is no well-established relationship between the concentration of TBT (ion) in sediment and porewater to the potential for adverse effects to aquatic resources. Ecology has determined that the 0.15 micrograms per liter (µg/L) porewater is an acceptable cleanup level for TBT at the Site. Soil cleanup levels were set at the MTCA, Method A cleanup levels for unrestricted land use.

The Point of Compliance consists of all soils throughout the Site and the sediment bioactive zone (upper 10 centimeters of the sediment column).

Cleanup actions must comply with applicable local, state, and federal laws. In certain cases, a permit is required. In other cases, the cleanup action must comply with the substantive requirements of the law, but are exempt from the procedural requirements of the law (RCW 70.105D.090 and WAC 173-340-710). Prior to the decision to perform the work under an AO, the City applied for and received applicable permits and approvals. Section 3.1 provides a summary of the design and permitting of this project.

2.2 Summary of Selected Cleanup Action

The cleanup alternatives considered for upland and sediment cleanup and the rationale for selecting the cleanup action are presented in detail in the AO and CAP. As described in Section 1, a number of environmental investigations and interim remedial actions have been performed at the Site and documented in technical memoranda. Groundwater was not identified as a media of concern in the CAP. A summary of the selected cleanup action for each upland and sediment area requiring cleanup is described below.

2.2.1 Upland Areas

Two upland areas were identified in the AO and CAP as requiring further action and were addressed during the cleanup action activities as described in Section 3.4.

- AHA-1: The area just outside the north side door of the boat shed on the adjacent property contained elevated carcinogenic polycyclic aromatic hydrocarbons (cPAHs) in samples at the 1.5 to 3-foot depth. The selected cleanup action in AHA-1 included removing approximately 100 square feet of soil, performing confirmatory sampling that the excavation removed the full extent of contamination, and backfilling to grade the area with clean soil. Confirmation samples yielded MTCA exceedances of polycyclic aromatic hydrocarbons (PAHs). Detailed information regarding this area is provided in Section 3.4.1.
- AG-9: An approximately 2-foot-thick layer of fill, about 8 to 10 feet below the existing grade and overlain by clean soil, contained pieces of charred wood and soils in this zone contained elevated cPAH concentrations. The selected cleanup action in

the area of AG-9 was based on a disproportionality evaluation and was to be addressed as part of the wooden bulkhead removal and regrading activities.

2.2.2 Sediment Areas

Three sediment areas were identified in the AO and CAP as requiring further action and were addressed during the cleanup action activities as described in Section 3.5. The selection of the sediment cleanup action (Revised Dredging and Capping Alternative B) was based on an evaluation of sediment cleanup alternatives in terms of net environmental benefits, community acceptance, cost, engineering feasibility, and ability to implement. This evaluation is summarized in Table 3 of the CAP and detailed in the sediment cleanup technical memoranda.

The selected sediment cleanup action (detailed in the Revised Technical Memorandum No. 2; Anchor QEA 2009c) included areas identified as SMUs consisting of dredging and backfill, dredging without backfill, and capping. These areas are presented on Figure 2 as SMU-1, SMU-2, and SMU-3. A description of the selected cleanup action in each SMU is provided below:

- **SMU-1: Dredge and backfill:** The area around the upper part of the marine haul-out railway and pier, above the approximately +2 feet mean lower low water tide level (+2 MLLW), was determined to be dredged to a depth of 2 feet below mudline and then backfilled with clean, imported sand and covered with a 6-inch-thick layer of habitat gravel mix. The marine railways and pier were to be removed to accomplish the dredging and replaced in a future phase of park development. This cleanup area included excavation of upland soils above the high tide level within the boat shed building and excavation of a discrete area of debris/soils within the embankment to the south of the dock (sample location AG-6). Confirmation sampling was required to ensure that the debris/metals contamination on the embankment near the pier had been sufficiently removed. Confirmation sampling was not required elsewhere within this area because sediment cores in this area confirmed that sediments below 18 inches deep meet the SQS requirements.
- **SMU-2: Dredge without backfill:** This area is waterward of SMU-1 in the vicinity of the outer edge of the marine haul-out rails and pier, and includes the subtidal area

under the gangway and floating dock. This area was determined to be dredged to a depth of 2 feet below mudline. No backfill was required in this area, as it is not necessary to bring it back to existing grade in order to accommodate replacement of structures. Confirmation sampling was required to confirm that the bottom of the dredge area meets the sediment cleanup levels and to confirm that the dredged area removes the full footprint of contaminated sediments.

- **SMU-3: Sand Cap:** The area to the south of the pier was determined to receive a 12-inch sand cap covered by a 6-inch habitat gravel mix layer. A subarea within this unit (as shown on Figure 2) was to be dredged to 2 feet below mudline first, then backfilled to match the surrounding grade.

2.2.3 Construction Compliance Monitoring

The Ecology 401 Water Quality Certification – Order No. 5228/U.S. Army Corps of Engineers (Corps) Public Notice No. NWS-2007-785-NO (401 WQC) received for this project required that a water quality monitoring and sediment sampling plan be implemented in conjunction with the in-water portion of the construction at the Site. The 401 WQC is provided in Appendix A. The 401 WQC calls for turbidity monitoring and confirmation sampling at the newly exposed sediment surfaces of dredged areas and the waterward edge of the dredge area. The CAP further called for performance sampling at the bank area near AG-6, soil removal areas at AHA-1 and AG-9, and the base of the bulkhead after removal (Figure 2). The soil performance sampling was incorporated into the water quality monitoring and sediment sampling plan for efficiency.

3 IMPLEMENTATION OF CLEANUP ACTION

Remedial action construction activities encompassed all activities undertaken to construct and implement the Ecology-selected cleanup action described in the AO and associated CAP. Project design and permitting occurred throughout 2007 and early 2008. Through a competitive formal Public Works bid process, the City selected American Civil Constructors West Coast Inc. (ACC) as the most qualified contractors to perform the cleanup action construction, with Anchor Environmental, L.L.C. (currently named and referred to herein as Anchor QEA) providing construction oversight and management on behalf of the City. The Notice to Proceed was issued to ACC on July 29, 2008. Construction activities occurred between mid-August 2008 and early November 2008. A description of these activities is presented in Table 2. As described in detail in the remainder of this section, construction activities included mobilization and site preparation, demolition and creosoted pile removal, sediment remediation, and upland remediation.

3.1 Project Design and Permitting

The project design and engineering was performed by Anchor QEA by a licensed professional engineer registered in the State of Washington. Design and construction drawings and design specifications were provided to ACC for implementation of the cleanup action.

As required under the AO and applicable federal, state, and local regulations, project permitting was coordinated with Ecology, the Corps, DNR, National Oceanic and Atmospheric Administration (NOAA), Department of Archaeology and Historic Preservation (DAHP), and the City. Project permits are listed below and included in Appendix A.

- Hydraulic Project Approval: - WDFW
- Shoreline Management Substantial Development Permit (SMSDP) - the City
- 401 Water Quality Certificate - Ecology
- 404 Permit- the Corps
- Endangered Species Act (ESA) Concurrence - NOAA
- Certificate of Appropriateness and Clearing and Grading Permit - the City
- Mitigated Determination of Non-Significance (MDNS) - the City
- Section 106- the Corps and DAHP

All project permit requirements were complied with.

Table 2
Summary of Eddon Boat Park Cleanup Action Activities

Date by Week	Summary of Cleanup Action Activities	Characterization and Compliance Sample Identification[1]
8/18/2008	Mobilization and Site Preparation -Equipment and material mobilization and staging	
8/25/2008	Mobilization and Site Preparation -Demolition (former boatyard structures) -Install silt curtain and fencing -Pre-construction survey (dredge limits) -Material management characterization testing	AG6, AHA3, AS2, HB4, HB5 (TCLP)
9/1/2008	Site Preparation -Demolition (former boatyard structures) -Install fencing and anchor silt curtain -Material management characterization testing	HB4A, HB4B, HB4C, HB5A (TCLP)
9/8/2008	Site Preparation -Demolition (former boatyard structures) -Install Site fencing/barriers and silt curtain -Clear and preparation at upland areas	
9/15/2008	Demolition and Dredging -Construct sediment management staging and transport areas -Excavate soils at AHA-1 -Dredge limited sediment at HB4 (dangerous waste management) -Dredge sediment in SMU-1	
9/22/2008	Demolition and Dredging -Demolition (pier and piles) -Dredge sediment in SMU-1 and SMU-2 -Transport and disposal of dredge sediment -Stockpile sand and habitat mix for cap placement	
9/29/2008	Dredging and Cap and Habitat Placement Preparation -Dredge sediment in SMU-1 and SMU-2 -Transport and disposal of dredge sediment -Stockpile sand and habitat mix for cap placement	Confirmation sampling: EB-SE01-A and EB-SE02-A (waterward edge of SMU-2); EB-SE03-A, EB-SE03-B, EB-SE04-A, and EB-SE04-B (z-layer of SMU-2); EB-SO01-COMP (AHA-1)
10/6/2008	Site Maintenance	
10/13/2008	Dredging and Capping and Habitat Mix Placement -Dredge sediment in SMU-2 -Transport and disposal of dredge sediment -Pre-construction survey (cap and habitat mix limits) -Placement of sand cap and habitat mix in SMU-1 and SMU-3 Overexcavated area near EB-SE03 sample in SMU-2	Confirmation sampling: EB-SE03-Z and EB-SE03-ZZ (SMU-2 z-layer recollections)

Table 2
Summary of Eddon Boat Park Cleanup Action Activities

Date by Week	Summary of Cleanup Action Activities	Characterization and Compliance Sample Identification[1]
10/20/2008	Timber Bulkhead Removal and Capping and Habitat Mix Placement -Dredge sediment in SMU-1 (railway area) -Bulkhead timbers removal and disposal -Soil excavation and disposal -Placement of sand cap and habitat mix in SMU-1 -Placement of sand and habitat mix in SMU-2	Confirmation sampling: EB-SE05-A (AG-6)
10/27/2008	Timber Bulkhead Area and Post Cleanup Survey -Completed placement of habitat mix -Soil excavation and disposal -Slope and upland regrade (including AG-9) -Install stormwater outfall and stabilize -Perform post-remediation survey	Confirmation sampling: EB-SE06-A and EB-SE07-A (bulkhead removal area)
11/3/2008	Demobilization and Site Cleanup	
7/10/2009	Further investigations at AHA-01	AHA-01-1SW(0-3), AHA-01-1SE(0-3), AHA-01-1NE(0-3), AHA-01-1NW(0-2.5), AHA-01-CEN(2.5-3.5)
4/24/2011 and 5/1/2011	Additional Cleanup Measures at AHA-1	

Notes:

1. A discussion of characterization and compliance sampling is provided in Sections 3.4 and 3.5. A summary of confirmational testing results and analytical laboratory reports are included in Appendix B.

3.2 Mobilization and Site Preparation

ACC mobilized to the Site on August 25, 2008, and began Site preparation. ACC set up temporary facilities, a project office, and other related structures. The project facilities and staging areas were located in the upland areas of the park, and remained in their location for the duration of the project. Site preparation included laying out the construction site to allow for staging and the ingress and egress of trucks and equipment. Upland areas where demolition debris and soil/sediment were loaded into trucks were prepared to contain water and solids per the best management practices (BMPs) listed in Question 7c of the Joint Aquatic Resource Permit Application (JARPA), preventing them from impacting the surface water. Temporary storm drainage siltation filters were installed in all storm sewer catch basins that outfall in the vicinity of the Site. Security fencing and construction signs were also installed at the Site.

3.3 Demolition and Creosoted Piles Removal

Existing marine and shoreline structures were demolished or relocated to provide safe access to the marine sediments planned for removal and to remove creosoted piles in three distinct areas in coordination with DNR. All over-water demolition activities occurred within booms and a silt curtain to contain any material that may have been disturbed into the water. Boat house appurtenances (marine railways and boat haul-out carriages) were dismantled, salvaged, and placed in the boathouse structure to be reused as part of the future park development.

The City and DNR entered into an interagency agreement (No. IAA 08-151) for the removal of three distinct areas of creosoted pilings, including the marine railways, the boatyard pier, and the wooden bulkhead. This work was coordinated with (and funded by) DNR and documented in a summary report (Anchor 2008b) detailing the removal and disposal of creosoted materials and request for reimbursement. A summary of the creosoted piling removal areas follows.

- **Marine Railways:** A total of 78 creosoted piles were removed from the railway area. The marine railway piles consisted of relatively short piles ranging in length from 2 to 4 feet. The visible marine railway piles were removed by an excavator and additional buried piles were removed during dredging activities.

- **Boatyard Pier:** A total of 41 creosoted piles were removed from the boatyard pier and pier footprint. The boatyard pier piles consisted of piles ranging in length from 8 to 20 feet. Nearly a third of the piles were removed by an excavator from land and the remaining piles were removed by crane and barge.
- **Wooden Bulkhead:** A total of 39 creosoted piles were removed from the wooden bulkhead structure. The wooden bulkhead was comprised of both piles and horizontal timbers. Creosoted piles and horizontal timbers were both removed by excavator.

All creosoted piles and timbers were transported to and disposed of at the Pierce County Recycling and Disposal Facility, LRI Landfill, located in Graham, Washington. Creosoted material that was transported to LRI Landfill was documented through truck weigh tickets. The truck weigh tickets documented the day, time, and weight (tons) of the material entering the facility. A total of 66 tons of creosoted material was transported and disposed at the LRI Landfill. The truck weigh tickets documenting creosoted material disposal are provided in Appendix D.

3.4 Upland Remediation and Shoreline Improvements

The Eddon Boat Park Remedial Action project included two areas of upland soil cleanup as described in Section 2. These areas were added to the cleanup in the AO, after the VCP remedial actions were completed. These upland soil cleanup areas consist of AHA-1 and the bulkhead removal and regrade area (AG-9) and are presented on Figure 2. The truck weigh tickets documenting contaminated soil and clean topsoil disposal are provided in Appendix D. Upland soil cleanup activities followed the BMPs as a requirement of the JARPA permit, including placement of a boom and silt curtain.

3.4.1 AHA-1

Site investigations in area AHA-1 (on the property to the north, not owned by the City) during the remedial investigations phases of the site cleanup found cPAHs in a sample from 1.5 to 3 feet deep, at a location to the north of the boat shed building. The sample was close to the end of a ramp that came from the side door to the building. The location is on the

neighboring property, but was sampled to test for contamination that may have come from the boatyard operation.

According to the AO and CAP, the remedial action for AHA-l was to excavate an area of 100 square feet around the sample location, then conduct confirmation sampling to ensure the contaminated area was addressed. Cleanup standards set for this area for cPAH are 0.1 milligrams per kilogram (mg/kg) or 100 micrograms per kilogram (µg/kg), measured as total toxicity equivalent (TEQ) per MTCA Method A.

During the Site cleanup, approximately 100 cubic feet or 4 cubic yards (6' x 6' x 3' depth) of soil was excavated. This was a deviation from the CAP, due to a design miscalculation, which required 100 square feet (to a depth of 3 feet) of soil removal. Soil excavation was performed by hand with a shovel, stockpiled in the staging area, and transported for disposal when the staging area was over-excavated. Soil was disposed of at a permitted facility. Truck weigh tickets are provided in Appendix D.

Table 3 presents the results of all samples taken from AHA-1. A composited confirmation sample (EB-SO01-COMP-081003) from the excavation sidewalls and bottom contained 1,900 µg/kg cPAH. Additional samples, presented in Figure 5, were taken beyond the limits of the excavation to determine whether the cPAHs were widespread. Samples obtained from borings up to 4 feet away from the excavated area contained up to 1,900 µg/kg) cPAH TEQ from 0 to 3 feet deep. A discrete sample taken from the bottom of the excavated area [AHA-01-CEN(2.5-3.5)] contained only 7.5 µg/kg of cPAH, indicating that the contamination is not present below a depth of about 3 feet. Based on the results of the samples, Ecology determined that there was a likelihood of another source of contamination. Materials containing PAH were not used at the boatyard, and other contaminants that may have been associated with discharges from the boatyard, such as metals or petroleum, were not present. Ecology subsequently worked through the Tacoma-Pierce County Health Department to have an initial investigation conducted on the neighboring property. The initial investigation included sampling, which confirmed that cPAHs are present over a wider area of the neighboring property than would logically have come from the boat shed doorway.

In a meeting on February 16, 2010, Ecology and the City agreed that the strip of land (approximately 5 feet wide) on the Eddon Boat Park property lying between the northwest side of the boat shed building and the northwest property line should be remediated in order for the Eddon Boat Park site cleanup to be considered complete. Ecology requested that the City provide a memorandum explaining other cleanup measures to be considered and evaluating their feasibility.

The City submitted an initial memorandum on January 31, 2011, proposing to cover the subject area with landscape cloth and bark. Ecology requested that gravel be used instead of bark, and the City resubmitted a revised memorandum on March 7, 2011. It is not feasible to excavate the area due to limited working space/access and the potential to compromise the foundation of the historic building.

The following additional cleanup measures were performed by the City:

1. Placement of a high-grade, thick, non-degradable landscape cloth over the entire area, followed by orange safety fence fabric. The entire area was covered with 3 inches of uncompacted free-draining gravel and includes perimeter edging material to hold the gravel in place.
2. The City installed restrictive "No Public Access" signage mounted on wooden posts (at both ends of the sideyard), as well as metal signage along the length of the boathouse.
3. The door from the boat shop to this area is blocked off from the inside.
4. The ramp from the door has been removed.
5. A chain was added at the end of the viewing platform walkway.
6. A statement was added to the City SOP manual to prohibit digging in this area without prior written approval from Ecology.
7. The Environmental Covenant was amended to include this area.

Table 3 presents the AHA-1 chemical data. The laboratory analytical reports are provided in Appendix B. Photographs of additional cleanup measures are provided in Appendix E.

Table 3
Summary of Eddon Boat Park Cleanup Action Activities

	Location ID	EB-SO01	AHA-1	AHA-1	AHA-1	AHA-1	AHA-1	AHA-1	AHA-1
	Sample ID	EB-SO01-COMP-081003	AHA-01-1NE(0-3)	AHA-01-1NW(0-2.5)	AHA-01-1SE(0-3)	AHA-01-1SW(0-3)	AHA-01-3NW(0-2)	AHA-01-4NE(0-2)	AHA-01-CEN(2.5-3.5)
	Sample Date	10/3/2008	7/10/2009	7/10/2009	7/10/2009	7/10/2009	7/10/2009	7/10/2009	7/10/2009
	Depth	0 - 6 ft	0 - 3 ft	0 - 2.5 ft	0 - 3 ft	0 - 3 ft	0 - 2 ft	0 - 2 ft	2.5 - 3.5 ft
	MTCA Method A								
Polycyclic Aromatic Hydrocarbons (µg/kg)									
1-Methylnaphthalene		63 U	**24**	**9.7**	9.2 U	**10**	4.6 U	**5.9**	4.7 U
2-Methylnaphthalene		63 U	**44**	**11**	**13**	**13**	**6**	**11**	4.7 U
Acenaphthene		63 U	**9.6**	**9.3**	9.2 U	**8.2**	4.6 U	**4.5**	4.7 U
Acenaphthylene		**220**	**290**	**200**	**99**	**190**	**76**	**160**	4.7 U
Anthracene		**120**	**150**	**120**	**35**	**100**	**38**	**65**	4.7 U
Benzo(a)anthracene		**1000**	**1100**	**640**	**410**	**590**	**330**	**630**	4.7 U
Benzo(a)pyrene	100	**1500**	**1500**	**770**	**620**	**760**	**440**	**930**	**6.1**
Benzo(b)fluoranthene		**990**	**870**	**440**	**320**	**350**	**240**	**530**	4.7 U
Benzo(g,h,i)perylene		**790**	**770**	**240**	**360**	**260**	**180**	**330**	4.7 U
Benzo(k)fluoranthene		**860**	**1000**	**560**	**490**	**640**	**240**	**530**	**4.7**
Chrysene		**1300**	**1200**	**700**	**490**	**660**	**380**	**780**	**5.2**
Dibenzo(a,h)anthracene		**210**	**240**	**140**	**150**	**130**	**76**	**160**	4.7 U
Fluoranthene		**1600**	**1700**	**1000**	**570**	**1000**	**460**	**870**	4.7 U
Fluorene		63 U	**48**	**50**	**9.2**	**50**	**7.9**	**12**	4.7 U
Indeno(1,2,3-c,d)pyrene		**800**	**730**	**280**	**340**	**290**	**180**	**330**	4.7 U
Naphthalene		63 U	**74**	**27**	**35**	**33**	**15**	**37**	4.7 U
Phenanthrene		**820**	**860**	**530**	**180**	**580**	**150**	**310**	4.7 U
Pyrene		**2300**	**2000**	**1300**	**730**	**1100**	**680**	**1200**	**7.1**
Dibenzofuran		63 U	**13**	**14**	9.2 U	**20**	4.6 U	**5.9**	4.7 U
Total cPAH TEQ (7 minimum CAEPA 2005) (U = 1/2)	100	**1899**	**1906**	**983**	**795.9**	**966.6**	**550.4**	**1155.8**	**7.562**
Total Naphthalenes (U = 1/2)	5000	63 U	**142**	**47.7**	**52.6**	**56**	**23.3**	**53.9**	4.7 U

Notes:

Detected concentration is greater than MTCA Method A screening level

Non-detected concentration is above one or more identified screening levels

Bold = Detected result

µg/kg = micrograms per kilogram

ft = feet

U = Compound analyzed, but not detected above detection limit

3.4.2 Wooden Bulkhead Excavation and Regrade (AG-9)

Upland soil cleanup in the area of the wooden bulkhead excavation and regrading (Area AG-9) was dependent on observations at the time of excavation and was based on the disproportionality evaluation presented in the CAP, which included four alternatives for addressing the potential charred wood layer. Alternative 2 was selected and involved over-excavating the slope at least an additional 3 feet and backfilling with clean material. Excavation of soil upland of the wooden bulkhead (performed as part of the park design) showed no observations of the charred wood layer that was associated with elevated cPAHs in soils and a modification to the CAP was granted by Ecology allowing for no further action in this area. Additionally, because the original slope design elevation was too steep, a decision was made to raise the grade elevation, which resulted in less soil being excavated and at least 3 feet of soil above the potential charred layer. No soil in this area was segregated for contaminated disposal at LRI Landfill. All soil excavated in this area was transported to Purdy Topsoil for unrestricted reuse. Excavation and regrading activities were performed using a track hoe and excavator. After excavation was complete, the area was hydroseeded.

The new shoreline bank, where the bulkhead was previously located, was excavated back to a 3:1 slope, as seen in Figure 4. Two confirmatory samples (EB-SE06 and EB-SE07) were collected after the bulkhead removal and results, which can be found in Appendix B Table B-1, indicated that PAH concentrations were well below SQS criteria. The location of these samples can be found in Figure 2. The City and DNR also entered into an agreement for the placement of habitat mix in the lower portion (below +14 feet MLLW) and native existing soil on the remaining slope. The slope reconstruction resulted in a stable slope, increased the upper intertidal acreage, and facilitated the creation of a pocket estuary, as well as public access.

3.5 Sediment Remediation

The Eddon Boat Park Remedial Action Project included three areas of sediment cleanup as described in Section 2. These sediment cleanup areas consist of SMU-1, SMU-2, and SMU-3, and are presented on Figure 2. Chemical data for pre-dredged sediment in these areas are summarized in Technical Memorandums 5 and 6. Approximately 2,250 tons of sediment were dredged from areas SMU-1 and SMU-2 and transported and disposed of at the Pierce

County Recycling and Disposal Facility, LRI Landfill, located in Graham, Washington. At the completion of dredging activities, capping activities followed, with placement of approximately 2,300 tons of sand followed by approximately 1,950 tons of habitat mix. The truck weigh tickets documenting contaminated sediment disposal and receipt of cap sand and habitat mix are provided in Appendix D. Sediment cleanup activities followed the BMPs as a requirement of the JARPA permit, including placement of a boom and silt curtain.

Prior to sediment dredging, a pre-construction survey was performed to determine the dredge limit footprints for each area. Water quality and confirmatory sampling was performed consistent with the JARPA requirements as presented in the *Water Quality Monitoring, Soil, and Sediment Sampling Plan* (Anchor 2008a). Monitoring and testing data are summarized along with laboratory data reports in Appendix B. Table 4 includes a summary of the post-remediation testing results, which, along with the capping sand and habitat mix test results (Appendix B), represent the current baseline condition of the Site. All capping activities were performed from pre-approved sand and habitat material placed from a land-based conveyor belt. A majority of the capping activities were conducted during night hours in order to place sand and habitat mix during low tide. A description of the cleanup action in each area is provided below.

3.5.1 SMU-1

Sediment cleanup in SMU-1 consisted of dredging followed by placement of sand and habitat mix layers. Initial limited dredging began in the area of sediment sample HB4, which was within the south boat railway adjacent to the bulkhead lateral wall (see Figure 2). Material management testing (toxicity characteristic leaching procedure [TCLP] analyses) in this area identified 7 cubic yards (6 tons per truck weigh ticket) of sediment to be managed and disposed of as dangerous waste in coordination with Ecology's Hazardous Waste and Toxics Reduction Program handling and reporting requirements. Initial sediment sampling at station HB-4 indicated a TCLP lead concentration of 26 milligrams per liter (mg/L). Additional sediment sampling was performed at four stations immediately surrounding HB-4 and showed TCLP lead concentrations below dangerous waste criteria (5 mg/L). Supporting information for the management of dangerous waste from this area is provided in Appendix C.

Sediment dredging in SMU-1 was conducted to a depth of 2 feet below mudline. Since historical borings indicate that sediments below 18 inches were clean, no confirmation sampling was required, with the exception of area AG-6 discussed as follows. Dredging in SMU-1 was performed using a combination of land-based long reach track hoe and short reach track hoe. Dredged sediment using land-based equipment was stockpiled at the external bay staging area, loaded into trucks for transport to the upland staging area, and ultimately transported to the approved disposal facility. Cleanup activities in SMU-1 included removal of metallic debris (all debris were visually removed) and associated shoreline bank soil, identified as area AG-6. One confirmatory sample (EB-SE05) was collected from area AG-6. After sample collection (which resulted in an SQS exceedance [0.54 mg/kg]), additional dredging and excavation was performed to stabilize the area due to a bulkhead failure. The sample area and adjacent sediments/soil had been removed to a distance of approximately 10 feet from the shoreline prior to being backfilled with clean sand and crushed rock. This overdredging excavated the entire area of AG-6 and no further action was required.

At the completion of dredging, a 1-foot sand layer was placed in the footprint of SMU-1. After the sand layer was placed, a 6-inch layer of habitat mix was placed. By design, this resulted in a backfill area at a lower grade than the surrounding sediment to ensure cap thickness and increase draft around the pier. The post-remediation elevations in SMU-1 are presented in the as-built drawing provided in Figure 3.

3.5.2 SMU-2

Sediment cleanup in SMU-2 consisted of dredging with a barge-based track hoe and placement of a sand and habitat mix layer to create an enhanced natural recovery area. Previous sediment sampling results in SMU-2 indicated chemical results above SQS criteria; however, sediment quality was acceptable for disposal at the LRI Landfill.

Sediment dredging in SMU-2 was conducted to a depth of 2 feet below mudline with additional residuals management dredging. Dredging in SMU-2 was performed over water by mechanical dredging during medium to high tide events. Sediment dredge material was stockpiled on a barge and transported by tugboat to an offloading area on Marine View Drive in Tacoma. Dredged sediment was then loaded into trucks for transport to the LRI Landfill.

Four confirmatory sediment samples (EB-SE01, EB-SE02, EB-SE03, and EB-SE04 in Figure 2) were collected to confirm the extent of dredging as described in the *Water Quality Monitoring, Soil, and Sediment Sampling Plan* (Anchor 2008a). Two of these samples (EB-SE01 and EB-SE02) were collected outside of the dredge footprint to confirm porewater TBT results were well below the criteria level of 0.15 µg/L. The TBT results of these samples were 0.064 µg/L and 0.1 µg/L, respectively. Within the dredge footprint, two samples (EB-SE03 and EB-SE04) were collected to confirm that the bottom of the dredge area meets sediment criteria. Sediment sample EB-SE04 had a porewater TBT concentration (0.044 µg/L) well below the criteria level, and EB-SE03 indicated a porewater concentration (0.64 µg/L) above the criteria level and a mercury concentration (0.47 mg/L) above the SQS.

After consultation with Ecology, additional dredging (6 to 12 inches) in all of SMU-2 was performed. The area of station EB-SE03 was resampled, resulting in findings of mercury below the SQS criteria, but a porewater TBT concentration (0.37 µg/L) still above the criteria level. Dredging in the area of EB-SE03 was conducted to a distinct silty/clay layer, and it was determined that the sampling result in this area was an artifact of sediment dredging residuals. After consultation with Ecology, it was determined that the placement of a 8- to 12-inch sand layer and a 6-inch habitat mix layer would contain the dredging residuals and meet the performance criteria in the CAP. The post-remediation elevations in SMU-2 are presented in the as-built drawing provided in Figure 3.

The confirmatory sediment sampling results presented in Appendix B, Table B-1, demonstrate that existing surface sediment (bioactive zone) quality meet SQS sediment quality criteria except for location EB-SE-03, which was incorporated into the long-term monitoring Year 3 sampling event (Anchor QEA 2009b) to evaluate whether the placement of sand and habitat mix layers were adequate at addressing the residuals. The station locations in relation to the cleanup action areas are presented in Figure 2.

3.5.3 SMU-3

Sediment cleanup in SMU-3 consisted of the placement of a sand cap and habitat mix layer. In general, sediments in this area were less contaminated than sediment in SMU-1, with only three samples having mercury SQS exceedances and two samples with TBT porewater

criteria exceedances. A limited subarea (Figure 2) adjacent to the shoreline in SMU-3 was dredged to 2 feet below mudline and backfilled with imported cap sand to grade. Dredging in the subarea of SMU-3 was performed by a land-based track hoe. Dredge sediment was stockpiled at the external bay staging area and then loaded into trucks for transport and disposal at the LRI Landfill.

At the completion of the subarea dredging, a 1-foot sand cap was placed in the footprint of SMU-3. Prior to cap placement, a pre-construction survey was performed to determine the SMU-3 cap placement boundaries. After the sand cap was placed, a 6-inch enhanced natural recovery layer consisting of habitat mix was placed in SMU-3 and in the new beach area to the south of SMU-3. The thickness of the cap was confirmed by staking the entire area with color-graduated survey stakes, which delineated the levels of sand and habitat mix. Several photographs document this procedure in Appendix E. The post-remediation elevations in SMU-3 are presented in the as-built drawing provided in Figure 3. To protect the capped areas, institutional controls will be utilized, as described in Section 3.6. Additionally, cap functionality and concentrations of mercury and TBT were monitored as described in the LTMP (Section 4.1).

Table 4
Summary of Post-Remediation Chemical and Physical Testing Results

Location ID:	Sediment Management Standards		AS-06	AS-08	AS-09	SG-01	SG-06	SG-07	SG-08	SG-09
Sample ID:			AS-06-1	AS-08-1	AS-09-1	EB-SG-1	EB-SG-6	EB-SG-7	EB-SG-8	EB-SG-9
Sample Date:			1/18/2005	1/18/2005	1/18/2005	10/11/2006	10/12/2006	10/12/2006	10/12/2006	10/12/2006
Depth:	Sediment Quality Standards	Cleanup Screening Levels	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
Conventional Parameters (pct)										
Total organic carbon	--	--	**1.8**	**3.37**	**2.35**	**1.86**	**4.06**	**2.44**	**1.69**	**2.05**
Total solids	--	--	**69**	**56.5**	**68.1**	**66.6**	**46.4**	**60.4**	**60.7**	**65.3**
Total solids	--	--	--	--	--	--	--	--	--	--
Total Solids (preserved)	--	--	**69.9**	**56.8**	**60.9**	--	--	--	--	--
Conventional Parameters (mg/kg)										
Ammonia	--	--	**3.41**	**10.5**	**6.02**	--	--	--	--	--
Sulfide	--	--	**17**	**650**	**320**	--	--	--	--	--
Grain Size (pct)										
Gravel	--	--	**2.6**	**7.2**	**0.2**	**0.4**	**12.9**	**27.2**	**15.6**	**40.2**
Sand, Coarse	--	--	**7.6**	**9.5**	**9.4**	**6**	**7.2**	**4.4**	**6.9**	**5.7**
Sand, Fine	--	--	**28.7**	**24.4**	**28.5**	**31.9**	**17.2**	**26**	**20.7**	**19.9**
Sand, Medium	--	--	**26.1**	**28.7**	**38.4**	**31.7**	**19.4**	**20.2**	**26.1**	**22**
Sand, Very Coarse	--	--	**2.5**	**2.8**	**1.3**	**0.9**	**3.9**	**1.5**	**1.7**	**2.2**
Sand, Very Fine	--	--	**11.2**	**8.5**	**6.9**	**10.7**	**8.6**	**9.9**	**8.7**	**5.4**
Silt, Coarse	--	--	**5.9**	**1.6**	**2.7**	**4.7**	**4.4**	**0.6**	**5.3**	--
Silt, Fine	--	--	**2.9**	**3**	**2.3**	**2.3**	**5.3**	**1.6**	**2.6**	--
Silt, Medium	--	--	**4.5**	**4**	**2.6**	**3.7**	**7.8**	**2.8**	**4**	--
Silt, Very Fine	--	--	**2.1**	**2.4**	**1.5**	**1.9**	**2.8**	**1.2**	**1.7**	--
Clay, Coarse	--	--	**1.6**	**2.2**	**1.5**	**1.3**	**2.4**	**1**	**1.6**	--
Clay, Fine	--	--	**2.9**	**4**	**3.5**	--	--	--	--	--
Clay, Medium	--	--	**1.5**	**1.5**	**1.2**	**1.3**	**2.3**	**1**	**1.6**	--
Clay, Very Fine	--	--	--	--	--	**3.2**	**5.9**	**2.6**	**3.3**	--
Fines (silt + clay)	--	--	**21.4**	**18.7**	**15.3**	**18.4**	**30.8**	**10.8**	**20.2**	**4.6**
Metals (mg/kg)										
Arsenic	57	93	7 U	9 U	7 U	--	**6**	**3.9**	**4.4**	**3.5**
Cadmium	5.1	6.7	0.3 U	**0.5**	**0.4**	--	1 U	0.8 U	0.8 U	0.7 U
Chromium	260	270	**25.1**	**22.1**	**31**	--	**28**	**25**	**21**	**17**
Copper	390	390	**35.7**	**59.2**	**64.8**	--	**70**	**45**	**44**	**49**
Lead	450	530	**52**	**27**	**17**	--	**42**	**28**	**27**	**20**
Mercury	0.41	0.59	**0.12**	**0.2**	**0.11**	--	**0.29**	**0.19**	**0.39**	**0.11**
Silver	6.1	6.1	0.4 U	0.5 U	0.4 U	--	1 U	0.8 U	0.8 U	0.7 U
Zinc	410	960	**52.6**	**69**	**46.8**	--	**100**	**90**	**80**	**60**
Butyltins (µg/kg)										
Tributyltin (ion)	--	--	**86**	--	--	**50**	**75**	**37**	**46**	**47**
Butyltin (ion)	--	--	--	--	--	**6.5**	**4.9**	**4.8**	**5.1**	**8.7**
Dibutyltin (ion)	--	--	**35**	--	--	**24**	**24**	**19**	**19**	**28**
Dibutyltin chloride	--	--	**46**	--	--	--	--	--	--	--
Monobutyltin trichloride	--	--	5.6 U	--	--	--	--	--	--	--
Tributyltin chloride	--	--	**97**	--	--	--	--	--	--	--
Porewater Butyltins (µg/L)										
Butyltin (ion)	--	--	--	--	--	0.032 UJ	0.027 UJ	0.029 UJ	0.057 UJ	0.031 UJ
Dibutyltin (ion)	--	--	--	--	--	0.048 UJ	0.048 UJ	0.044 UJ	0.055 UJ	0.046 UJ
Tributyltin (ion)	--	--	--	--	--	**0.045 J**	**0.026 J**	0.019 UJ	**0.026 J**	0.019 UJ

Table 4
Summary of Post-Remediation Chemical and Physical Testing Results

Location ID:	Sediment Management Standards		AS-06	AS-08	AS-09	SG-01	SG-06	SG-07	SG-08	SG-09
Sample ID:			AS-06-1	AS-08-1	AS-09-1	EB-SG-1	EB-SG-6	EB-SG-7	EB-SG-8	EB-SG-9
Sample Date:			1/18/2005	1/18/2005	1/18/2005	10/11/2006	10/12/2006	10/12/2006	10/12/2006	10/12/2006
Depth:	Sediment Quality Standards	Cleanup Screening Levels	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
PCB Aroclors (mg/kg-OC)										
Aroclor 1016	--	--	1.1 U	--	0.85 U	--	--	0.78 U	1.2 U	0.93 U
Aroclor 1221	--	--	1.1 U	--	0.85 U	--	--	0.78 U	1.2 U	0.93 U
Aroclor 1232	--	--	1.1 U	--	0.85 U	--	--	0.78 U	1.2 U	0.93 U
Aroclor 1242	--	--	1.1 U	--	0.85 U	--	--	0.78 U	1.2 U	0.93 U
Aroclor 1248	--	--	1.1 U	--	0.85 U	--	--	0.78 U	1.2 U	0.93 U
Aroclor 1254	--	--	**2.7**	--	**0.98**	--	--	**0.66 J**	**1 J**	**0.93 J**
Aroclor 1260	--	--	1.1 U	--	0.85 U	--	--	**0.78 J**	**2.3**	**0.83 J**
Total PCB	12	65	**2.7**	--	**0.98**	--	--	**1.44**	**3.3**	**1.76**
Semi-Volatile Organics (µg/kg)										
1,3-Dichlorobenzene	--	--	--	--	--	--	61 U	60 U	62 U	61 U
1-Methylnaphthalene	--	--	--	--	--	--	--	--	--	--
Hexachloroethane	--	--	--	--	--	--	61 U	60 U	62 U	61 U
Aromatic Hydrocarbons (mg/kg-OC)										
Total LPAH	370	780	**12.2**	--	**17.6**	--	--	**15.8**	**21**	**12.2**
Naphthalene	99	170	3.2 U	--	2.5 U	--	--	2.5 U	3.7 U	3 U
Acenaphthylene	66	66	3.2 U	--	2.5 U	--	--	2.5 U	**2.6 J**	3 U
Acenaphthene	16	57	3.2 U	--	2.5 U	--	--	2.5 U	3.7 U	3 U
Fluorene	23	79	3.2 U	--	2.5 U	--	--	2.5 U	3.7 U	3 U
Phenanthrene	100	480	**12.2**	--	**14.5**	--	--	**13.5**	**13**	**10.2**
Anthracene	220	1200	3.2 U	--	**3.1**	--	--	**2.3 J**	**5.4**	**2 J**
2-Methylnaphthalene	38	64	3.2 U	--	2.5 U	--	--	2.5 U	3.7 U	3 U
Total HPAH	960	5300	**114.49**	--	**98.75**	--	--	**104.09**	**377.64**	**112.65**
Fluoranthene	160	1200	**21.7**	--	**21.7**	--	--	**23.8**	**94.67**	**27.3**
Pyrene	1000	1400	**31.7**	--	**24.7**	--	--	**21.3**	**51.5**	**19.5**
Benzo(a)anthracene	110	270	**8.89**	--	**8.09**	--	--	**7.38**	**24.3**	**8.29**
Chrysene	110	460	**13.9**	--	**11.5**	--	--	**12.7**	**59.17**	**12.2**
Benzo(b)fluoranthene			**12.2**	--	**11.5**	--	--	**9.02**	**34.3**	**11.7**
Benzo(k)fluoranthene			**15**	--	**11.9**	--	--	**9.84**	**47.3**	**9.27**
Total Benzofluoranthenes (b, j, k)	230	450	**27.2**	--	**23.4**	--	--	**18.86**	**81.6**	**20.97**
Benzo(a)pyrene	99	210	**11.1**	--	**9.36**	--	--	**8.2**	**29.6**	**10.2**
Indeno(1,2,3-c,d)pyrene	34	88	3.2 U	--	2.5 U	--	--	**4.92**	**16.6**	**6.34**
Dibenzo(a,h)anthracene	12	33	3.2 U	--	2.5 U	--	--	**1.6**	**4.8**	**2**
Benzo(g,h,i)perylene	31	78	3.2 U	--	2.5 U	--	--	**5.33**	**15.4**	**5.85**
Total PAH			**126.69**	--	**116.35**	--	--	**119.89**	**398.64**	**124.85**
Chlorinated Benzenes (mg/kg-OC)										
1,2-Dichlorobenzene	2.3	2.3	3.2 U	--	2.5 U	--	--	0.25 U	0.37 U	0.3 U
1,4-Dichlorobenzene	3.1	9	3.2 U	--	2.5 U	--	--	**0.25**	0.37 U	0.3 U
1,2,4-Trichlorobenzene	0.81	1.8	3.2 U	--	2.5 U	--	--	0.25 UJ	0.37 UJ	0.3 UJ
Hexachlorobenzene	0.38	2.3	0.053 U	--	0.042 U	--	--	0.25 U	0.37 U	0.3 U
Phthalate Esters (mg/kg-OC)										
Dimethyl phthalate	53	53	3.2 U	--	2.5 U	--	--	**1.6 J**	**2 J**	**1.9 J**
Diethyl phthalate	61	110	3.2 U	--	2.5 U	--	--	2.5 U	3.7 U	3 U
Di-n-butyl phthalate	220	1700	3.2 U	--	2.5 U	--	--	**2.5**	3.7 U	3 U

Table 4
Summary of Post-Remediation Chemical and Physical Testing Results

Location ID:	Sediment Management Standards		AS-06	AS-08	AS-09	SG-01	SG-06	SG-07	SG-08	SG-09
Sample ID:			AS-06-1	AS-08-1	AS-09-1	EB-SG-1	EB-SG-6	EB-SG-7	EB-SG-8	EB-SG-9
Sample Date:			1/18/2005	1/18/2005	1/18/2005	10/11/2006	10/12/2006	10/12/2006	10/12/2006	10/12/2006
Depth:	Sediment Quality Standards	Cleanup Screening Levels	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
Butylbenzyl phthalate	4.9	64	3.2 U	--	2.5 U	--	--	**0.86**	**0.89**	**1.3**
Bis(2-ethylhexyl) phthalate	47	78	**12.2**	--	**5.53**	--	--	**16**	**10.1**	**5.37**
Di-n-octyl phthalate	58	4500	3.2 U	--	2.5 U	--	--	2.5 U	3.7 U	3 U
Miscellaneous (mg/kg-OC)										
Dibenzofuran	15	58	3.2 U	--	2.5 U	--	--	2.5 U	3.7 U	3 U
Hexachlorobutadiene	3.9	6.2	0.053 U	--	0.042 U	--	--	0.25 U	0.37 U	0.3 U
N-Nitrosodiphenylamine	11	11	3.2 U	--	2.5 U	--	--	0.25 U	0.37 U	0.3 U
Ionizable Organic Compounds (µg/kg)										
Phenol	420	1200	58 U	58 U	58 U	--	61 U	60 U	62 U	61 U
2-Methylphenol (o-Cresol)	63	63	58 U	58 U	58 U	--	6.1 U	6 U	6.2 U	6.1 U
4-Methylphenol (p-Cresol)	670	670	58 U	58 U	58 U	--	61 U	60 U	62 U	61 U
2,4-Dimethylphenol	29	29	58 U	58 U	58 U	--	6.1 U	6 U	6.2 U	6.1 U
Pentachlorophenol	360	690	290 U	290 U	290 U	--	30 U	30 U	31 U	31 U
Benzyl alcohol	57	73	58 U	58 U	58 U	--	38 U	60 U	33 U	31 U
Benzoic acid	650	650	580 U	580 U	580 U	--	610 U	600 U	620 U	610 U
PCB Aroclors (µg/kg)										
Aroclor 1016	--	--	19 U	20 U	20 U	--	20 U	19 U	20 U	19 U
Aroclor 1221	--	--	19 U	20 U	20 U	--	20 U	19 U	20 U	19 U
Aroclor 1232	--	--	19 U	20 U	20 U	--	20 U	19 U	20 U	19 U
Aroclor 1242	--	--	19 U	20 U	20 U	--	20 U	19 U	20 U	19 U
Aroclor 1248	--	--	19 U	20 U	20 U	--	20 U	19 U	20 U	19 U
Aroclor 1254	--	--	**49**	**32**	**23**	--	**36**	**16 J**	**17 J**	**19 J**
Aroclor 1260	--	--	19 U	20 U	20 U	--	**44**	**19 J**	**39**	**17 J**
Total PCB	--	--	**49**	**32**	**23**	--	**80**	**35**	**56**	**36**
Aromatic Hydrocarbons (µg/kg)										
Total LPAH	--	--	**220**	**453**	**412**	--	**597**	**387**	**355**	**251**
Naphthalene	--	--				--	--	--	--	--
Naphthalene	--	--	58 U	58 U	58 U	--	61 U	60 U	62 U	61 U
Acenaphthylene	--	--				--	--	--	--	--
Acenaphthylene	--	--	58 U	58 U	58 U	--	**54 J**	60 U	**44 J**	61 U
Acenaphthene	--	--				--	--	--	--	--
Acenaphthene	--	--	58 U	58 U	58 U	--	61 U	60 U	62 U	61 U
Fluorene	--	--				--	--	--	--	--
Fluorene	--	--	58 U	58 U	58 U	--	**43 J**	60 U	62 U	61 U
Phenanthrene	--	--				--	--	--	--	--
Phenanthrene	--	--	**220**	**370**	**340**	--	**390**	**330**	**220**	**210**
Anthracene	--	--	58 U	**83**	**72**	--	**110**	**57 J**	**91**	**41 J**
2-Methylnaphthalene	--	--	58 U	58 U	58 U	--	61 U	60 U	62 U	61 U

Table 4
Summary of Post-Remediation Chemical and Physical Testing Results

Location ID:	Sediment Management Standards		AS-06	AS-08	AS-09	SG-01	SG-06	SG-07	SG-08	SG-09
Sample ID:			AS-06-1	AS-08-1	AS-09-1	EB-SG-1	EB-SG-6	EB-SG-7	EB-SG-8	EB-SG-9
Sample Date:			1/18/2005	1/18/2005	1/18/2005	10/11/2006	10/12/2006	10/12/2006	10/12/2006	10/12/2006
Depth:	Sediment Quality Standards	Cleanup Screening Levels	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
Total HPAH	--	--	**2060**	**6519**	**2320**	--	**5992**	**2538**	**6381**	**2312**
Fluoranthene	--	--	**390**	**1800**	**510**	--	**1400**	**580**	**1600**	**560**
Pyrene	--	--	**570**	**1700**	**580**	--	**1000**	**520**	**870**	**400**
Benzo(a)anthracene	--	--	**160**	**340**	**190**	--	**430**	**180**	**410**	**170**
Chrysene	--	--	**250**	**910**	**270**	--	**810**	**310**	**1000**	**250**
Benzo(b)fluoranthene	--	--	**220**	**640**	**270**	--	**640**	**220**	**580**	**240**
Benzo(k)fluoranthene	--	--	**270**	**650**	**280**	--	**550**	**240**	**800**	**190**
Total Benzofluoranthenes (b, j, k)	--	--	**490**	**1290**	**550**	--	**1190**	**460**	**1380**	**430**
Benzo(a)pyrene	--	--	**200**	**330**	**220**	--	**500**	**200**	**500**	**210**
Indeno(1,2,3-c,d)pyrene	--	--	58 U	**74**	58 U	--	**300**	**120**	**280**	**130**
Dibenzo(a,h)anthracene	--	--	58 U	58 U	58 U	--	**82**	**38**	**81**	**42**
Benzo(g,h,i)perylene	--	--	58 U	**75**	58 U	--	**280**	**130**	**260**	**120**
Total PAH	--	--	**2280**	**6972**	**2732**	--	**6589**	**2925**	**6736**	**2563**
Chlorinated Benzenes (µg/kg)										
1,2-Dichlorobenzene	--	--	58 U	58 U	58 U	--	6.1 U	6 U	6.2 U	6.1 U
1,4-Dichlorobenzene	--	--	58 U	58 U	58 U	--	6.1 U	**6**	6.2 U	6.1 U
1,2,4-Trichlorobenzene	--	--	58 U	58 U	58 U	--	6.1 UJ	6 UJ	6.2 UJ	6.1 UJ
Hexachlorobenzene	--	--	0.96 U	0.97 U	0.98 U	--	6.1 U	6 U	6.2 U	6.1 U
Phthalate Esters (µg/kg)										
Dimethyl phthalate	--	--	58 U	**91**	58 U	--	**76**	**38 J**	**34 J**	**38 J**
Diethyl phthalate	--	--	58 U	58 U	58 U	--	61 U	60 U	62 U	61 U
Di-n-butyl phthalate	--	--	58 U	58 U	58 U	--	**44 J**	**62**	62 U	61 U
Butylbenzyl phthalate	--	--	58 U	58 U	58 U	--	**35**	**21**	**15**	**26**
Bis(2-ethylhexyl) phthalate	--	--	**220**	**200**	**130**	--	**320**	**390**	**170**	**110**
Di-n-octyl phthalate	--	--	58 U	**62**	58 U	--	61 U	60 U	62 U	61 U
Miscellaneous (µg/kg)										
Dibenzofuran	--	--	58 U	58 U	58 U	--	61 U	60 U	62 U	61 U
Hexachlorobutadiene	--	--	0.96 U	0.97 U	0.98 U	--	6.1 U	6 U	6.2 U	6.1 U
N-Nitrosodiphenylamine	--	--	58 U	58 U	58 U	--	6.1 U	6 U	6.2 U	6.1 U

Table 4
Summary of Post-Remediation Chemical and Physical Testing Results

Location ID:	Sediment Management Standards		SG-13	SG-17	SG-18	SG-18	SG-19	SG-20	EB-SE01	EB-SE02
Sample ID:			EB-SG-13	EB-SG-17-070307	EB-SG-18-070307	EB-SG-58-070307	EB-SG-19-070307	EB-SG-20-070307	EB-SE01-A-081003	EB-SE02-A-081003
Sample Date:	Sediment Quality Standards	Cleanup Screening Levels	10/12/2006	7/3/2007	7/3/2007	7/3/2007	7/3/2007	7/3/2007	10/3/2008	10/3/2008
Depth:			0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
Conventional Parameters (pct)										
Total organic carbon	--	--	**0.985**	**3.3**	**3.18**	**2.17**	**2.21**	**2.24**	--	--
Total solids	--	--	**67.3**	**46.6**	**72.8**	**70.7**	**67.2**	**77.5**	--	--
Total solids	--	--	--	--	--	--	--	--	--	--
Total Solids (preserved)	--	--	--	--	--	--	--	--	--	--
Conventional Parameters (mg/kg)										
Ammonia	--	--	--	--	--	--	--	--	--	--
Sulfide	--	--	--	--	--	--	--	--	--	--
Grain Size (pct)										
Gravel	--	--	--	--	--	--	--	--	--	--
Sand, Coarse	--	--	--	--	--	--	--	--	--	--
Sand, Fine	--	--	--	--	--	--	--	--	--	--
Sand, Medium	--	--	--	--	--	--	--	--	--	--
Sand, Very Coarse	--	--	--	--	--	--	--	--	--	--
Sand, Very Fine	--	--	--	--	--	--	--	--	--	--
Silt, Coarse	--	--	--	--	--	--	--	--	--	--
Silt, Fine	--	--	--	--	--	--	--	--	--	--
Silt, Medium	--	--	--	--	--	--	--	--	--	--
Silt, Very Fine	--	--	--	--	--	--	--	--	--	--
Clay, Coarse	--	--	--	--	--	--	--	--	--	--
Clay, Fine	--	--	--	--	--	--	--	--	--	--
Clay, Medium	--	--	--	--	--	--	--	--	--	--
Clay, Very Fine	--	--	--	--	--	--	--	--	--	--
Fines (silt + clay)	--	--	--	--	--	--	--	--	--	--
Metals (mg/kg)										
Arsenic	57	93	--	--	--	--	--	--	--	--
Cadmium	5.1	6.7	--	--	--	--	--	--	--	--
Chromium	260	270	--	--	--	--	--	--	--	--
Copper	390	390	--	--	--	--	--	--	--	--
Lead	450	530	--	--	--	--	--	--	--	--
Mercury	0.41	0.59	--	--	--	--	--	--	--	--
Silver	6.1	6.1	--	--	--	--	--	--	--	--
Zinc	410	960	--	--	--	--	--	--	--	--
Butyltins (µg/kg)										
Tributyltin (ion)	--	--	**82**	**140**	**10 J**	**14**	**43**	**62**	--	--
Butyltin (ion)	--	--	**9.6**	**7.6**	3.9 U	3.8 U	**4.2**	**5.9**	--	--
Dibutyltin (ion)	--	--	**33**	**32**	5.5 UJ	5.4 U	**12**	**24**	--	--
Dibutyltin chloride	--	--	--	--	--	--	--	--	--	--
Monobutyltin trichloride	--	--	--	--	--	--	--	--	--	--
Tributyltin chloride	--	--	--	--	--	--	--	--	--	--
Porewater Butyltins (µg/L)										
Butyltin (ion)	--	--	0.053 UJ	**0.024 J**	**0.058 J**	**0.054 J**	**0.08 J**	0.02 UJ	0.008 U	**0.026**
Dibutyltin (ion)	--	--	0.054 UJ	**0.045 J**	**0.03 J**	**0.047 J**	**0.065 J**	0.029 UJ	**0.016**	**0.033**
Tributyltin (ion)	--	--	**0.024 J**	**0.19**	**0.084**	**0.069**	**0.13**	**0.063**	**0.064**	**0.1**

Table 4
Summary of Post-Remediation Chemical and Physical Testing Results

Location ID:	Sediment Management Standards		SG-13	SG-17	SG-18	SG-18	SG-19	SG-20	EB-SE01	EB-SE02
Sample ID:			EB-SG-13	EB-SG-17-070307	EB-SG-18-070307	EB-SG-58-070307	EB-SG-19-070307	EB-SG-20-070307	EB-SE01-A-081003	EB-SE02-A-081003
Sample Date:	Sediment Quality Standards	Cleanup Screening Levels	10/12/2006	7/3/2007	7/3/2007	7/3/2007	7/3/2007	7/3/2007	10/3/2008	10/3/2008
Depth:			0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
PCB Aroclors (mg/kg-OC)										
Aroclor 1016	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	--	--	--	--	--	--	--	--	--	--
Total PCB	12	65	--	--	--	--	--	--	--	--
Semi-Volatile Organics (µg/kg)										
1,3-Dichlorobenzene	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	--	--	--	--	--	--	--	--	--	--
Hexachloroethane	--	--	--	--	--	--	--	--	--	--
Aromatic Hydrocarbons (mg/kg-OC)										
Total LPAH	370	780	--	--	--	--	--	--	--	--
Naphthalene	99	170	--	--	--	--	--	--	--	--
Acenaphthylene	66	66	--	--	--	--	--	--	--	--
Acenaphthene	16	57	--	--	--	--	--	--	--	--
Fluorene	23	79	--	--	--	--	--	--	--	--
Phenanthrene	100	480	--	--	--	--	--	--	--	--
Anthracene	220	1200	--	--	--	--	--	--	--	--
2-Methylnaphthalene	38	64	--	--	--	--	--	--	--	--
Total HPAH	960	5300	--	--	--	--	--	--	--	--
Fluoranthene	160	1200	--	--	--	--	--	--	--	--
Pyrene	1000	1400	--	--	--	--	--	--	--	--
Benzo(a)anthracene	110	270	--	--	--	--	--	--	--	--
Chrysene	110	460	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene			--	--	--	--	--	--	--	--
Benzo(k)fluoranthene			--	--	--	--	--	--	--	--
Total Benzofluoranthenes (b, j, k)	230	450	--	--	--	--	--	--	--	--
Benzo(a)pyrene	99	210	--	--	--	--	--	--	--	--
Indeno(1,2,3-c,d)pyrene	34	88	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	12	33	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	31	78	--	--	--	--	--	--	--	--
Total PAH			--	--	--	--	--	--	--	--
Chlorinated Benzenes (mg/kg-OC)										
1,2-Dichlorobenzene	2.3	2.3	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	3.1	9	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	0.81	1.8	--	--	--	--	--	--	--	--
Hexachlorobenzene	0.38	2.3	--	--	--	--	--	--	--	--
Phthalate Esters (mg/kg-OC)										
Dimethyl phthalate	53	53	--	--	--	--	--	--	--	--
Diethyl phthalate	61	110	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	220	1700	--	--	--	--	--	--	--	--

Table 4
Summary of Post-Remediation Chemical and Physical Testing Results

Location ID:	Sediment Management Standards		SG-13	SG-17	SG-18	SG-18	SG-19	SG-20	EB-SE01	EB-SE02
Sample ID:			EB-SG-13	EB-SG-17-070307	EB-SG-18-070307	EB-SG-58-070307	EB-SG-19-070307	EB-SG-20-070307	EB-SE01-A-081003	EB-SE02-A-081003
Sample Date:	Sediment Quality Standards	Cleanup Screening Levels	10/12/2006	7/3/2007	7/3/2007	7/3/2007	7/3/2007	7/3/2007	10/3/2008	10/3/2008
Depth:			0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
Butylbenzyl phthalate	4.9	64	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	47	78	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	58	4500	--	--	--	--	--	--	--	--
Miscellaneous (mg/kg-OC)										
Dibenzofuran	15	58	--	--	--	--	--	--	--	--
Hexachlorobutadiene	3.9	6.2	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	11	11	--	--	--	--	--	--	--	--
Ionizable Organic Compounds (µg/kg)										
Phenol	420	1200	--	--	--	--	--	--	--	--
2-Methylphenol (o-Cresol)	63	63	--	--	--	--	--	--	--	--
4-Methylphenol (p-Cresol)	670	670	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	29	29	--	--	--	--	--	--	--	--
Pentachlorophenol	360	690	--	--	--	--	--	--	--	--
Benzyl alcohol	57	73	--	--	--	--	--	--	--	--
Benzoic acid	650	650	--	--	--	--	--	--	--	--
PCB Aroclors (µg/kg)										
Aroclor 1016	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	--	--	--	--	--	--	--	--	--	--
Total PCB	--	--	--	--	--	--	--	--	--	--
Aromatic Hydrocarbons (µg/kg)										
Total LPAH	--	--	--	--	--	--	--	--	--	--
Naphthalene	--	--	--	--	--	--	--	--	--	--
Naphthalene	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	--	--	--	--	--	--	--	--	--	--
Acenaphthene	--	--	--	--	--	--	--	--	--	--
Acenaphthene	--	--	--	--	--	--	--	--	--	--
Fluorene	--	--	--	--	--	--	--	--	--	--
Fluorene	--	--	--	--	--	--	--	--	--	--
Phenanthrene	--	--	--	--	--	--	--	--	--	--
Phenanthrene	--	--	--	--	--	--	--	--	--	--
Anthracene	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	--	--	--	--	--	--	--	--	--	--

Table 4
Summary of Post-Remediation Chemical and Physical Testing Results

Location ID:	Sediment Management Standards		SG-13	SG-17	SG-18	SG-18	SG-19	SG-20	EB-SE01	EB-SE02
Sample ID:			EB-SG-13	EB-SG-17-070307	EB-SG-18-070307	EB-SG-58-070307	EB-SG-19-070307	EB-SG-20-070307	EB-SE01-A-081003	EB-SE02-A-081003
Sample Date:	Sediment Quality Standards	Cleanup Screening Levels	10/12/2006	7/3/2007	7/3/2007	7/3/2007	7/3/2007	7/3/2007	10/3/2008	10/3/2008
Depth:			0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
Total HPAH	--	--	--	--	--	--	--	--	--	--
Fluoranthene	--	--	--	--	--	--	--	--	--	--
Pyrene	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	--	--	--	--	--	--	--	--	--	--
Chrysene	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	--	--	--	--	--	--	--	--	--	--
Total Benzofluoranthenes (b, j, k)	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-c,d)pyrene	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	--	--	--	--	--	--	--	--	--	--
Total PAH	--	--	--	--	--	--	--	--	--	--
Chlorinated Benzenes (µg/kg)										
1,2-Dichlorobenzene	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	--	--	--	--	--	--	--	--	--	--
Phthalate Esters (µg/kg)										
Dimethyl phthalate	--	--	--	--	--	--	--	--	--	--
Diethyl phthalate	--	--	--	--	--	--	--	--	--	--
Di-n-butyl phthalate	--	--	--	--	--	--	--	--	--	--
Butylbenzyl phthalate	--	--	--	--	--	--	--	--	--	--
Bis(2-ethylhexyl) phthalate	--	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	--	--	--	--	--	--	--	--	--	--
Miscellaneous (µg/kg)										
Dibenzofuran	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	--	--	--	--	--	--	--	--	--	--

Notes:
Bold = Detected result
U = Compound analyzed, but not detected above detection limit
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
mg/kg-OC = milligrams per kilogram organic carbon normalized
FD = Field Duplicate
J = Estimated value
N = Normal Field Sample
U = Compound analyzed, but not detected above detection limit
Total HPAH (High PAH) are the total of fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzofluoranthenes, benzo(a)pyrene, indeno(1,2,3-c,d)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene
Total PCB does not include Aroclor 1262 and 1268
Totals are calculated as the sum of all detected results. If all are undetcted results, the highest reporting limit value is reported as the sum.
-- Results not reported or not applicable

3.6 Institutional Controls

Per the CAP and Ecology-approved ICP, the following Institutional Controls were implemented at the Site: 1) Environmental Covenant; 2) publication (SOP); and 3) signage. The status of Institutional Control implementation is listed in Table 5.

Table 5
Institutional Control Schedule

Institutional Control	Date Completed
Environmental Covenant	July 2009 (Recording #200907280613)
Publications	July 2009
Sign Placement (in-water and AG-9)	July 2009
Sign Placement (pier)	Immediately after park construction is complete
AHA-1 Sign Placement	May 2011
Amendment to Environmental Covenant	May 2011 (Recording #201106100024)

4 NEXT STEPS

4.1 Long-Term Monitoring

Five years of monitoring are required to evaluate the performance of the sediment cap and enhanced natural recovery area. The requirements for this task are provided in the LTMP (Anchor QEA 2009b). Years 1, 2, and 3 have been completed. Confirmation sampling in Year 3 confirmed that mercury and bulk TBT were not detected in the sand layer of the cap. Visual inspections confirmed that the cap material is present in SMU-2 and SMU-3, and show no signs of erosion and minimal accumulation of fine-grained material. This information confirms that the cleanup action is functioning as desired and in accordance with the CAP. Monitoring in Years 4 and 5 will consist of visual inspections.

4.2 Site Delisting

Thus far, the City has completed the following requirements:

- Implementation of the ICP (Anchor QEA 2009a)
- Environmental Information Management EIM database submittal of all performance and compliance sampling data
- Year 1, 2, and 3 long-term monitoring

Approval of this Completion Report, along with cap performance standards being met in the LTMP Year 4 and 5 visual monitoring events, will meet the City's final obligations under the AO. At that time, the Site will be de-listed.

4.3 Park Construction

Additional permitted activities included rebuilding the marine railway, pier, and floating dock, followed by construction of the park. The existing structures will be preserved or restored (this is an ongoing effort) as locations for community, cultural, and educational activities. The open space and natural shoreline will have sidewalks and footpaths to allow pedestrian access to the water including a kayak/canoe landing site. The schedule for park completion has not been established.

5 REFERENCES

Anchor, 2008a. *Water Quality Monitoring, Soil, and Sediment Sampling Plan*. Prepared for the City of Gig Harbor. July 2008

Anchor, 2008b. *Interagency Agreement with the City of Gig Harbor* (Agreement No. IAA 08-151) Prepared for the City of Gig Harbor. December 2008.

Anchor QEA, 2009a. *Final Institutional Control Plan.* Prepared for the City of Gig Harbor. April 2009.

Anchor QEA, 2009b. *Final Long Term Monitoring Plan*. Prepared for the City of Gig Harbor. April 2009.

Anchor QEA, 2009c. *Revised Technical Memorandum No. 2 Evaluation of Sediment Cleanup Action Alternatives*. Eddon Boatyard Property. Prepared for the City of Gig Harbor. March 2009.

Ecology, 2008. Eddon Boat Park- Facility Site No. 1301959 Agreed Order No. DE 5597. August 8, 2008.

FIGURES

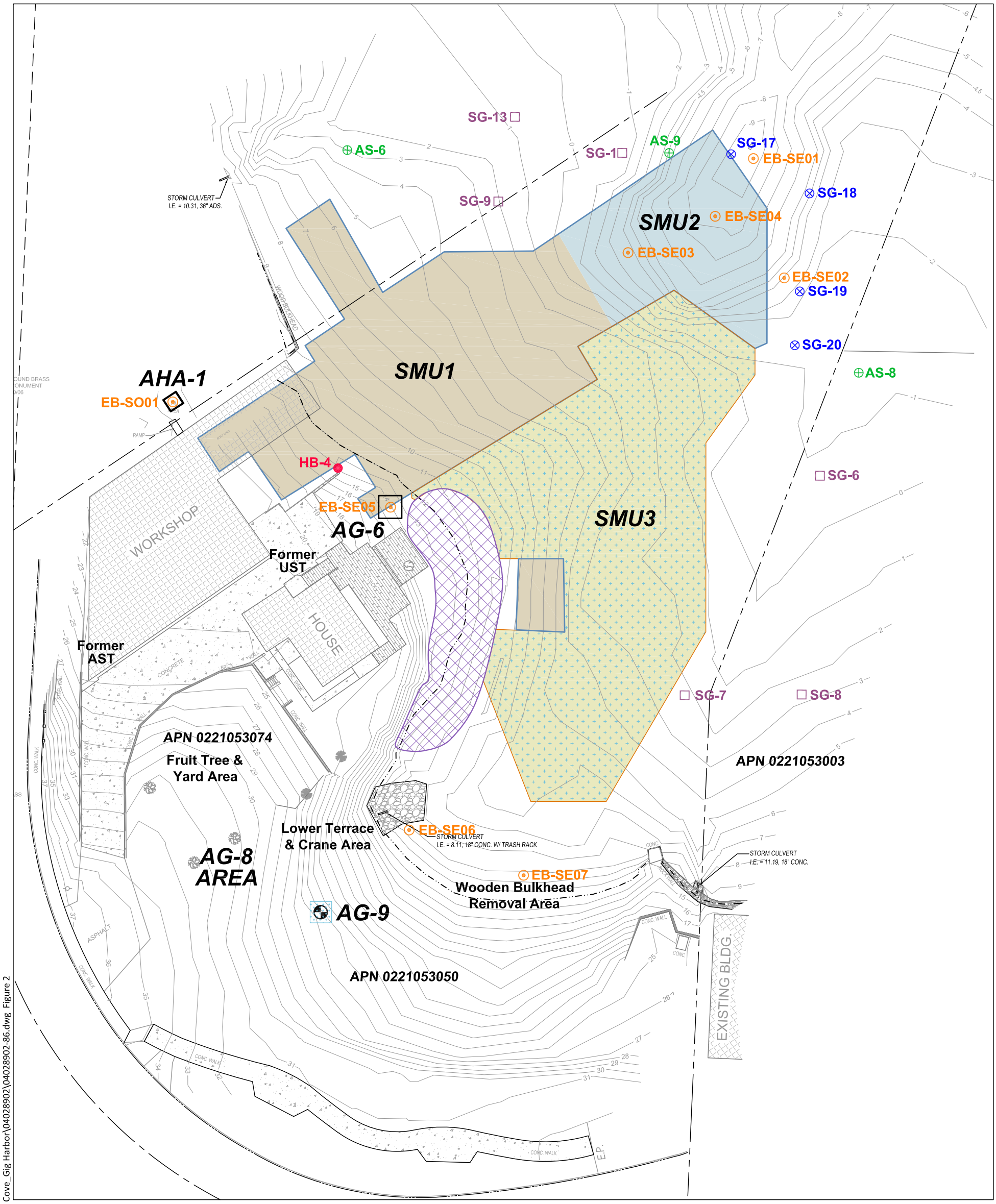
Note: Base map prepared from Terrain Navigator Pro USGS 7.5 minute quadrangle map of Gig Harbor, Washington.

0 1/2
Scale in Miles

Apr 16, 2009 3:55pm heriksen K:\Jobs\040289-Harbor Cove_Gig Harbor\04028902\04028902-72.dwg F1

Figure 1
Vicinity Map
Project Completion Report
Eddon Boat Park Cleanup Action Project

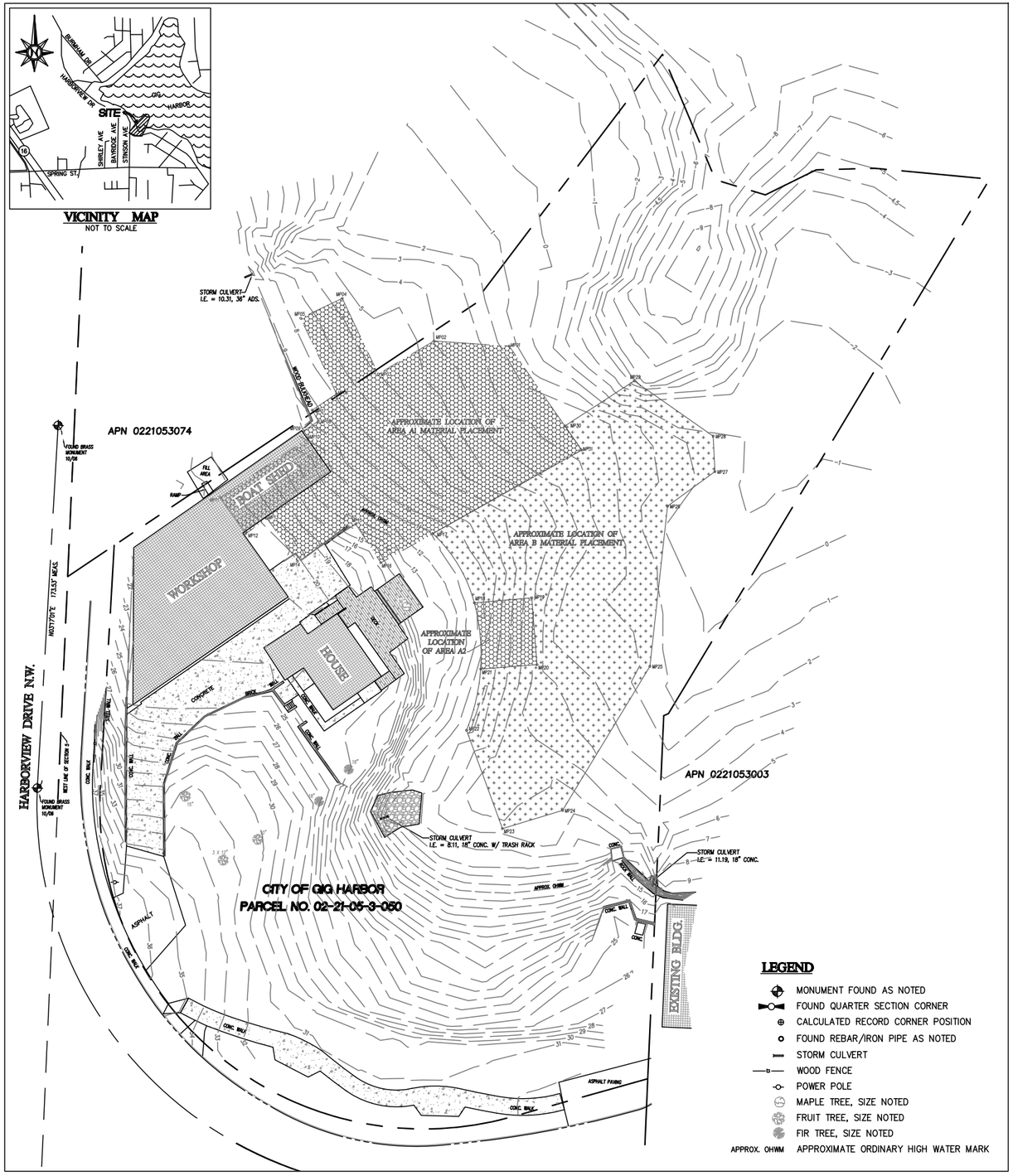
ANCHOR QEA



Oct 05, 2011 3:26pm heriksen K:\Jobs\040289-Harbor Cove_Gig Harbor\04028902\04028902-86.dwg Figure 2

Figure 2
Site Features and Cleanup Action Areas
Project Completion Report
Eddon Boat Park Cleanup Action Project

EDDON BOAT PARK AS-BUILT SURVEY
RECORD OF SURVEY FOR AQUATIC LEASE NO. 22-078899
A PORTION OF GOVT LOT 7, A.K.A. THE S.W 1/4 OF THE S.W. 1/4 OF SECTION 5, TOWNSHIP 21 NORTH, RANGE 2 EAST, W.M., CITY OF GIG HARBOR, CITY OF GIG HARBOR, PIERCE COUNTY, WASHINGTON



LEGEND

- MONUMENT FOUND AS NOTED
- FOUND QUARTER SECTION CORNER
- CALCULATED RECORD CORNER POSITION
- FOUND REBAR/IRON PIPE AS NOTED
- STORM CULVERT
- WOOD FENCE
- POWER POLE
- MAPLE TREE, SIZE NOTED
- FRUIT TREE, SIZE NOTED
- FIR TREE, SIZE NOTED
- APPROX. OHWM — APPROXIMATE ORDINARY HIGH WATER MARK

LEGAL DESCRIPTION - UPLANDS

(BASED ON STATUTORY WARRANTY DEED RECORDED UNDER A.F.N. 200503170517)

PARCEL A

BEGINNING AT THE INTERSECTION WITH THE NORTH BOUNDARY LINE OF THE 60 FOOT RIGHT OF WAY OF THE BURNHAM--HUNT COUNTY ROAD, AND A LINE WHICH IS NORTH 1 DEGREES 13 MINUTES EAST, BEING PARALLEL TO THE SECTION LINE COMMON TO SECTION 5 AND 6, TOWNSHIP 21 NORTH, RANGE 2 EAST OF THE W.M., IN PIERCE COUNTY, WASHINGTON, AND EAST THEREFROM 212.37 FEET, MEASURED AT RIGHT ANGLE THERETO;
THENCE ON A LINE NORTH 1 DEGREES 13 MINUTES EAST, 209 FEET, MORE OR LESS, TO THE INTERSECTION WITH THE GOVERNMENT MEANDER LINE ON THE SOUTH SIDE OF GIG HARBOR;
THENCE SOUTH AND EAST, FOLLOWING SAID GOVERNMENT MEANDER LINE TO ITS INTERSECTION WITH A LINE WHICH IS SOUTH 1 DEGREES 13 MINUTES WEST AND PARALLEL TO THE AFORESAID SECTION LINE COMMON TO SECTION 5 AND 6, TOWNSHIP 21 NORTH, RANGE 2 EAST OF THE W.M., AND EAST THEREFROM 287.37 FEET, MEASURED AT RIGHT ANGLE THERETO;
THENCE SOUTH 1 DEGREES 13 MINUTES WEST ON SAID LINE 163 FEET, MORE OR LESS, TO ITS INTERSECTION WITH THE NORTH BOUNDARY LINE OF THE AFORESAID BURNHAM--HUNT COUNTY ROAD;
THENCE WEST AND SOUTH 79 FEET MORE OR LESS, ALONG THE NORTH BOUNDARY LINE OF SAID COUNTY ROAD TO THE POINT OF BEGINNING.

ALSO THE FOLLOWING DESCRIBED TIDELANDS OF THE SECOND CLASS, BEING ADJACENT TO AND ABUTTING UPON THE AFOREDESCRIBED UPLAND PROPERTY;

BEGINNING AT THE INTERSECTION OF THE WEST BOUNDARY LINE OF THE AFOREDESCRIBED UPLAND PROPERTY AND THE SAID GOVERNMENT MEANDER LINE, WHICH POINT IS EAST 212.37 FEET FROM THE SECTION LINE COMMON TO SECTION 5 AND 6, TOWNSHIP 21 NORTH, RANGE 2 EAST OF THE W.M.,
AND MEASURED AT RIGHT ANGLE THERETO;
THENCE ON A LINE NORTH 19 DEGREES 49 MINUTES EAST OVER TIDELANDS OF THE SECOND CLASS TO AN INTERSECTION WITH THE IRREGULAR LINE INDICATED BY THE EXTREME LOW TIDE;
THENCE SOUTH AND EAST FOLLOWING SAID IRREGULAR LINE OF EXTREME LOW TIDE, TO INTERSECT A LINE WHICH BEARS NORTH 19 DEGREES 49 MINUTES EAST FROM THE NORTHEAST CORNER OF THE ABOVE DESCRIBED TRACT OF UPLAND;
THENCE ON SAID PARALLEL LINE SOUTH 19 DEGREES 49 MINUTES WEST TO ITS INTERSECTION WITH THE AFORESAID GOVERNMENT MEANDER LINE;
THENCE WEST AND NORTH ALONG THE SAID GOVERNMENT MEANDER LINE TO THE PLACE OF BEGINNING.

BEGINNING AT THE STONE MONUMENT WHICH IS AT THE INTERSECTION OF THE SECTION LINE COMMON TO SECTION 5 AND 6, TOWNSHIP 21 NORTH, RANGE 2 EAST OF THE W.M., WITH ITS GOVERNMENT MEANDER LINE ON THE SOUTH SIDE OF GIG HARBOR, PIERCE COUNTY, WASHINGTON.
THENCE SOUTH 1 DEGREES 13 MINUTES WEST ON THE SAID SECTION LINE COMMON TO SECTION 5 AND 6 AFORESAID, 572.82 FEET;
THENCE ON A LINE NORTH 50 DEGREES 55 MINUTES EAST 58 FEET, MORE OR LESS, TO AN INTERSECTION WITH THE EAST BOUNDARY LINE OF THE RIGHT--OF--WAY OF THE 60 FOOT BURNHAM--HUNT COUNTY ROAD, THE TRUE POINT OF BEGINNING;
THENCE CONTINUING ON THE SAID LINE, WHICH IS NORTH 50 DEGREES 55 MINUTES EAST TO THE POINT 220.55 FEET, MEASURED FROM ITS INTERSECTION WITH THE AFORESAID SECTION LINE COMMON TO SAID SECTION 5 AND 6;
THENCE ON A LINE NORTH 19 DEGREE 49 MINUTES EAST 79 FEET, MORE OR LESS, TO ITS INTERSECTION WITH THE GOVERNMENT MEANDER LINE OF GIG HARBOR;
THENCE ON THE SAID GOVERNMENT MEANDER LINE SOUTH 25 DEGREES EAST 42 FEET, MORE OR LESS, TO AN INTERSECTION WITH A LINE WHICH IS SOUTH 1 DEGREES 13 MINUTES WEST, WHICH LINE IS PARALLEL TO THE AFORESAID SECTION LINE COMMON TO SECTIONS 5 AND 6, AND THE EAST 212.37 FEET, MEASURED AT RIGHT ANGLES THERETO;
THENCE SOUTH 1 DEGREES 13 MINUTES WEST ON SAID LINE, 209 FEET, MORE OR LESS, TO ITS INTERSECTION WITH THE NORTH BOUNDARY OF THE AFORESAID BURNHAM--HUNT COUNTY ROAD;
THENCE ON A CURVE TO THE RIGHT, FOLLOWING THE NORTH BOUNDARY LINE OF SAID BURNHAM--HUNT COUNTY ROAD, 193 FEET, MORE OR LESS, TO THE POINT OF BEGINNING.

ALSO THE FOLLOWING DESCRIBED TIDELANDS OF THE SECOND CLASS BEING ADJACENT AND ABUTTING UPON THE AFOREDESCRIBED UPLAND PROPERTY:

BEGINNING AT THE STONE MONUMENT WHICH IS AT THE INTERSECTION OF THE SECTION LINE COMMON TO SECTION 5 AND 6, TOWNSHIP 21 NORTH, RANGE 2 EAST OF THE W.M., WITH ITS GOVERNMENT MEANDER LINE ON THE SOUTH SIDE OF GIG HARBOR, PIERCE COUNTY, WASHINGTON.

THENCE SOUTH 1 DEGREES 13 MINUTES WEST ON THE SAID SECTION LINE COMMON TO SECTION 5 AND 6 AFORESAID, 572.82 FEET;
THENCE ON A LINE NORTH 50 DEGREES 55 MINUTES EAST 220.55 FEET;
THENCE ON A LINE NORTH 19 DEGREES 49 MINUTES EAST 79 FEET, MORE OR LESS, TO ITS INTERSECTION WITH THE AFORESAID GOVERNMENT MEANDER LINE, THE TRUE PLACE OF BEGINNING
THENCE CONTINUING ON SAID LINE NORTH 19 DEGREES 49 MINUTES EAST OVER THE TIDELANDS OF THE SECOND CLASS, TO AN INTERSECTION WITH AN IRREGULAR LINE INDICATED BY THE EXTREME LOW TIDE;
THENCE SOUTH AND EAST FOLLOWING SAID IRREGULAR LINE OF EXTREME LOW TIDE, TO INTERSECT A LINE WHICH BEARS NORTH 19 DEGREES 49 MINUTES EAST FROM THE NORTHEAST CORNER OF THE ABOVE DESCRIBED TRACT OF UPLAND;
THENCE ON SAID PARALLEL LINE SOUTH 19 DEGREES 49 MINUTES WEST TO ITS INTERSECTION WITH THE AFORESAID GOVERNMENT MEANDER LINE NORTH 25 DEGREES WEST 42 FEET, MORE OR LESS, TO THE POINT OF BEGINNING.

PARCEL B

ALL THAT PART OF LOT 7, SECTION 5, TOWNSHIP 21 NORTH, RANGE 2 EAST OF THE W.M. IN PIERCE COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:

BEGINNING AT A STONE MONUMENT AT THE NORTHWEST CORNER OF SAID LOT 7;
THENCE RUNNING SOUTH 1 DEGREES 13 MINUTES WEST ALONG THE WEST LINE OF SAID LOT, 351.47 FEET TO THE TRUE POINT OF BEGINNING;
THENCE CONTINUING SOUTH 1 DEGREES 13 MINUTES WEST ON SAID WEST LINE 221.35 FEET TO TRACT CONVEYED TO JOHN DOWER LUMBER COMPANY BY DEED RECORDED IN BOOK 521 OF DEEDS AT PAGE 170, UNDER AUDITOR'S FILE NO. 987787;
THENCE NORTH 50 DEGREES 55 MINUTES EAST 220.55 FEET;
THENCE NORTH 19 DEGREES 49 MINUTES EAST 79 FEET, MORE OR LESS, TO GOVERNMENT MEANDER LINE OF SAID LOT 7;
THENCE ON SAID GOVERNMENT MEANDER LINE NORTH 25 DEGREES WEST 125.5 FEET, MORE OR LESS, TO A POINT NORTH 54 DEGREES 48 MINUTES EAST OF THE TRUE POINT OF BEGINNING;
THENCE SOUTH 54 DEGREES 48 MINUTES WEST 174.98 FEET, MORE OR LESS, TO THE TRUE POINT OF BEGINNING.

TOGETHER WITH TIDELANDS OF THE SECOND CLASS ABUTTING THEREON, LYING WITHIN THE PROLONGATION OF THE SIDELINES OF THE ABOVE DESCRIBED TRACT AND EXTENDING TO THE LINE OF MEAN LOW TIDE.

AND TOGETHER WITH ALL TIDELANDS OF THE SECOND CLASS LYING BETWEEN THE LINE OF MEAN LOW TIDE AND EXTREME LOW TIDE, LYING IN FRONT THEREOF.

EXCEPT STATE HIGHWAY NO. 14.

AND EXCEPT ANY PORTION LYING SOUTH OF SAID HIGHWAY.

SITUATE IN THE CITY OF GIG HARBOR, COUNTY OF PIERCE, STATE OF WASHINGTON.

LEGAL DESCRIPTION - LEASE AREA

AN AREA FOR AQUATIC LEASE LYING BETWEEN THE LINE OF EXTREME LOW TIDE AND THE OUTER HARBOR LINE LOCATED WITHIN GOVERNMENT LOT 7, SECTION 5, TOWNSHIP 21 NORTH, RANGE 2 EAST, W.M., IN PIERCE COUNTY, WASHINGTON, SAID AREA DESCRIBED AS FOLLOWS:

COMMENCING AT THE STONE MONUMENT WHICH IS AT THE INTERSECTION OF THE SECTION LINE COMMON TO SECTION 5 AND 6, TOWNSHIP 21 NORTH, RANGE 2 EAST OF THE W.M., WITH ITS GOVERNMENT MEANDER LINE ON THE SOUTH SIDE OF GIG HARBOR, PIERCE COUNTY, WASHINGTON;
THENCE SOUTH 02°31'22" WEST, ALONG THE SECTION LINE THEREOF, 351.47 FEET; THENCE NORTH 56°11'00" EAST 26.71 FEET TO THE SOUTHERNMOST CORNER OF PARCEL B OF RECORD OF SURVEY FOR BOUNDARY LINE ADJUSTMENT RECORDED UNDER AUDITOR'S FEE NUMBER 200309045001, RECORDS OF PIERCE COUNTY; THENCE CONTINUING NORTH 56°11'00" EAST, ALONG THE SOUTHEASTERLY LINE OF SAID PARCEL B AND THE EXTENSION THEREOF, 394.70 FEET; THENCE NORTH 21°07'22" EAST 62.08 FEET TO A POINT ON THE LINE OF EXTREME LOW TIDE, SAID POINT ALSO BEING THE POINT OF BEGINNING OF THE LEASE AREA; THENCE SOUTHEASTERLY, ALONG SAID LINE OF EXTREME LOW TIDE, SOUTH 22°35'05" EAST 51.32 FEET; THENCE SOUTH 73°15'31" EAST 24.91 FEET; THENCE NORTH 63°45'24" EAST 27.01 FEET; THENCE SOUTH 89°39'41" EAST 28.95 FEET; THENCE SOUTH 84°34'25" EAST 28.13 FEET TO A POINT ON THE WEST LINE OF THAT AQUATIC LEASE NO. 20--012428, RECORDED UNDER AUDITOR'S FEE NUMBER 200504015004, RECORDS OF PIERCE COUNTY; THENCE LEAVING SAID LINE OF EXTREME LOW TIDE, NORTH 01°46'46" EAST, ALONG THE WEST LINE OF SAID LEASE, 150.29 FEET TO A POINT ON THE INNER HARBOR LINE OF THE AMENDED PLAT OF GIG HARBOR TIDELANDS AND HARBOR LINES RECORDED UNDER AUDITORS FEE NUMBER 9512140115, RECORDS OF PIERCE COUNTY; THENCE NORTH 30°59'57" EAST, PARALLEL WITH THE WEST LINE OF BLOCK B OF THE AFOREMENTIONED AMENDED PLAT OF GIG HARBOR TIDELANDS AND HARBOR LINES, 174.55 FEET TO A POINT ON THE OUTER HARBOR LINE OF THE AFOREMENTIONED AMENDED PLAT; THENCE NORTH 86°00'46" WEST, ALONG SAID OUTER HARBOR LINE, 107.24 FEET TO THE NORTHEAST CORNER OF THAT AQUATIC LEASE NO. 22--002773, RECORDED UNDER AUDITOR'S FEE NUMBER 9612040116, RECORDS OF PIERCE COUNTY; THENCE SOUTH 46°58'34" WEST 209.17 FEET, ALONG THE EAST LINE OF SAID LEASE, 190.43 FEET TO A POINT ON THE AFOREMENTIONED INNER HARBOR LINE OF THE AMENDED PLAT OF GIG HARBOR TIDELANDS AND HARBOR LINES; THENCE SOUTH 86°00'44" EAST, ALONG SAID INNER HARBOR LINE, 112.16 FEET TO A POINT ON THE EAST LINE OF BLOCK A OF THE AFOREMENTIONED AMENDED PLAT OF GIG HARBOR TIDELANDS AND HARBOR LINES; THENCE SOUTH 37°08'07" WEST, ALONG SAID EAST LINE, 122.04 FEET TO A POINT ON THE LINE OF EXTREME LOW TIDE; THENCE SOUTH SOUTH 22°35'34" EAST, ALONG SAID EXTREME LOW TIDE LINE, 13.78 FEET TO THE POINT OF BEGINNING.

LEASE NOTE:

THE LEASE AREA(S) SHOWN ON AQUATIC LANDS LEASE NO. 20--012428, RECORDED UNDER A.F.N. 200504015004 AND AQUATIC LANDS LEASE NO. 22--002773, RECORDED UNDER A.F.N. 9605090296 DESCRIBE AREAS ADJOINING THE SUBJECT PARCEL DESCRIBED FOR THIS SURVEY. THEY ARE BEING SHOWN TO REFLECT THE RELATIONSHIP BETWEEN LEASES ALREADY IN PLACE WITHIN THE AREA.

NOTES:

1. THE INNER AND OUTER HARBOR LINES WERE ESTABLISHED FROM THE STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES "AMENDED PLAT OF GIG HARBOR TIDELANDS AND HARBOR LINES" RECORDED UNDER AUDITOR'S FILE NUMBER 9512140115
2. RECORD OF SURVEY RECORDED UNDER A.F.N. 8708240422 WAS USED AS A BASIS FOR THIS SURVEY AND MEANDER LINE DATA.
3. THIS EXHIBIT MAP DOES NOT PURPORT TO SHOW ANY OR ALL ENCUMBRANCES, BENEFITING OR BURDENING THE SUBJECT PARCEL.
4. ALL CONTOURS SHOWN HEREON WERE BASED FROM FIELD LOCATIONS BY PRIZM SURVEYING, INC IN OCTOBER, 2006.
5. THE EAST LINE OF THE THE SUBJECT PARCEL LYING WITHIN THE HARBOR AREA WAS CALCULATED AS PARALLEL WITH THE WEST LINE, EXTENDED, OF BLOCK B FROM THE STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES "AMENDED PLAT OF GIG HARBOR TIDELANDS AND HARBOR LINES" RECORDED UNDER AUDITOR'S FILE NUMBER 9512140115 UPON THE REQUEST OF THE CITY OF GIG HARBOR AND IN AGREEMENT WITH THE DEPARTMENT OF NATURAL RESOURCES.

BASIS OF BEARINGS

THIS SURVEY UTILIZED THE WASHINGTON STATE PLANE COORDINATE SYSTEM -- SOUTH ZONE (NAD83/91) AS SHOWN ON STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES "AMENDED PLAT OF GIG HARBOR TIDELANDS AND HARBOR LINES" RECORDED UNDER AUDITOR'S FILE NUMBER 9512140115, RECORDS OF PIERCE COUNTY, WASHINGTON.

METHODS AND EQUIPMENT

SURVEY PERFORMED WITH A 2" TOTAL STATION, USING TRAVERSE AND RADIAL SURVEY METHODS. THIS SURVEY MEETS OR EXCEEDS ACCURACY REQUIREMENTS CONTAINED IN WAC 332-130-090.

VERTICAL DATUM

MEAN LOWER LOW WATER -- CITY MONUMENT NO. 55 (IN CASE) IN THE PARKING LOT OF THE "TIDES TAVERN" -- PUBLISHED ELEVATION OF 28.52 FEET (M.L.L.W.)

NOTE: THIS BENCHMARK IS BASED ON GIG HARBOR TIDAL BENCH NO. 5 (1944) WHICH HAS AN ELEVATION OF 14.18 FEET

EXTREME LOW WATER	-4.5
MEAN LOWER LOW WATER	0.0
MEAN LOW WATER	2.8

(NOTE: THIS INFORMATION WAS BASED FROM INFORMATION PUBLISHED BY NOAA AND THE DEPARTMENT OF NATURAL RESOURCES UTILIZING TIDAL BENCHMARKS IN THE IMMEDIATE AREA AND AGREES WITH THE DATA SHOWN ON LEASE SURVEY RECORDED UNDER A.F.N. 9605090296 LOCATED NORTH OF THIS PROJECT. CONTACT KEN BROWN, PLS LAND SURVEY SECTION--DNR AT (360) 902--1379 FOR MORE INFORMATION)

COORDINATE NOTE

(DNR CONTROL)	(THIS SURVEY)
NW CORNER GOVT LOT 7	NW CORNER GOVT LOT 7
N 736888.88	N 736890.43
E 1122433.99	E 1122432.1098
PER WHEELER SURVEY	PER ROS 8708240422

NOTES

1. A DIGITAL COPY OF THIS MAP IS BEING PROVIDED ALONG WITH THE SIGNED PAPER COPY. THE SIGNED PAPER COPY IS THE ORIGINAL AND CONTROLS IN THE EVENT OF DIFFERENCES. THE DIGITAL COPY HAS BEEN PROVIDED MERELY FOR THE CONVENIENCE OF THE CLIENT. COPYRIGHT PRIZM SURVEYING INC. 17 DECEMBER 2008
2. THE MATERIAL PLACEMENT AREAS DEPICTED HEREON ARE FOR EXHIBIT PURPOSES ONLY AND DO NOT REPRESENT ACCURATE COORDINATE POSITIONS. FOR ACTUAL QUANTITAVE INFORMATION ON THE TRUE LOCATION OF THESE AREAS, PLEASE CONTACT ANCHOR ENVIRONMENTAL, L.L.C.

SURVEYOR'S REFERENCES:

(R--1) STATE OF WASHINGTON DEPARTMENT OF NATURAL RESOURCES "AMENDED PLAT OF GIG HARBOR TIDELANDS AND HARBOR LINES" RECORDED UNDER AUDITOR'S FILE NUMBER 9512140115

(R--2) CITY OF GIG HARBOR BOUNDARY LINE ADJUSTMENT RECORDED UNDER A.F.N. 200309045001

(R--3) RECORD OF SURVEY A.F.N. 8708240422

(R--4) RECORD OF SURVEY A.F.N. 200608225001

(R--5) ROS LEASE NO. 22--077216 AFN 200509025001

(R--6) ROS LEASE NO. 20--012428 AFN 200504015004

(R--7) ROS LEASE NO. 22--002773 AFN 9605090296

(R--8) AMENDED ROS LEASE NO. 22--002773 AFN 9612040116

(R--9) ROS LEASE NO. 22--A02571 AFN 200605115002

(R--10) STATUTORY WARRANTY DEED A.F.N. 8011250236

(R--11) STATUTORY WARRANTY DEED A.F.N. 200503170517

(R--12) TIDELANDS DEED RECORDED IN VOLUME 2 OF DEEDS, PAGE 183 ON FILE AT THE OFFICE OF COMMISSIONER OF PUBLIC LANDS --OLYMPIA

(R--13) TIDELANDS DEED RECORDED IN VOLUME 10 OF DEEDS, PAGE 324 ON FILE AT THE OFFICE OF COMMISSIONER OF PUBLIC LANDS --OLYMPIA

(R--14) TIDELANDS DEED RECORDED IN VOLUME 13 OF DEEDS, PAGE 151 ON FILE AT THE OFFICE OF COMMISSIONER OF PUBLIC LANDS --OLYMPIA

(R--15) TIDELANDS DEED RECORDED IN VOLUME 16 OF DEEDS, PAGE 415 ON FILE AT THE OFFICE OF COMMISSIONER OF PUBLIC LANDS --OLYMPIA

(R--16) TIDELANDS DEED RECORDED IN VOLUME 16 OF DEEDS, PAGE 682 ON FILE AT THE OFFICE OF COMMISSIONER OF PUBLIC LANDS --OLYMPIA

(R--17) TIDELANDS DEED RECORDED IN VOLUME 20 OF DEEDS, PAGE 38 ON FILE AT THE OFFICE OF COMMISSIONER OF PUBLIC LANDS --OLYMPIA

(R--18) TIDELANDS ACTIVITY REGISTER TS27--082 ON FILE AT THE OFFICE OF COMMISSIONER OF PUBLIC LANDS --OLYMPIA

(R--19) WARRANTY DEED A.F.N. 1667980

(R--20) STATUTORY WARRANTY DEED A.F.N. 2795933

(R--21) STATUTORY WARRANTY DEED A.F.N. 2738107

(R--22) MAP OF GIG HARBOR TIDELANDS AND HARBOR LINES FILED IN 1974 AT THE OFFICE OF THE COMMISSIONER OF PUBLIC LANDS -- OLYMPIA

(R--23) US COAST AND GEODETIC SURVEY -- HYDROGRAPHIC SURVEY NO. 5931 COMPLETED IN 1935 FOR THE SOUTH END OF COLVOS PASSAGE.

SURVEYOR'S NARRATIVE:

THE PURPOSE OF THIS SURVEY IS TO DEFINE THE LEASE AREA BY THE CITY OF GIG HARBOR OF THE FIRST CLASS TIDELANDS AND THE HARBOR AREAS FROM THE STATE OF WASHINGTON. BASED ON THE AREA REQUESTED BY THE CITY OF GIG HARBOR AND THE DEPARTMENT OF NATURAL RESOURCES, BOUNDARY LINE DISCREPANCIES EXIST WITH RESPECT TO THE SUBJECT AREA AND ARE CLARIFIED BELOW. NO DETERMINATION WAS MADE AS TO WHETHER THE AREA CAN OR CANNOT BE LEASED FROM THE STATE OF WASHINGTON NOR THE TERMS OF SAID LEASE:

1) DURING THE RESEARCH PORTION OF THIS SURVEY, IT APPEARS THAT ON JULY 19, 1930, THE STATE SOLD ALL THE SECOND CLASS TIDELANDS LYING BETWEEN THE LINE OF MEAN LOW TIDE AND EXTREME LOW TIDE "AND" IN FRONT OF A TRACT DESCRIBED IN THOSE DEEDS FILED IN VOLUME 16, PAGE 682 AND VOLUME 20, PAGE 38 (ON FILE AT THE OFFICE OF COMMISSIONER OF PUBLIC LANDS) TO THE JOHN DOWER LUMBER COMPANY AND ARTHUR GLIEN, RESPECTIVELY. THE DESCRIPTIONS CONTAINED WITHIN THOSE TIDELAND CONVEYANCES ARE COMMON TO THOSE DEEDS RECORDED UNDER PIERCE COUNTY A.F.N.(S) 1667980, 2738107, 2795933 AND 8011250236, WITHIN THOSE ABOVE DEEDS, THE SIDELINES OF THE TIDELANDS ARE AN ELONGATION OF THE UPLAND TRACTS OF PROPERTY. THESE DESCRIPTIONS ALSO HAVE COMMON BEARINGS ALONG THE SIDELINES OF BLOCK "A" AND "B" FOUND ON THE 1974 MAP OF GIG HARBOR TIDELANDS AND ARE COMMON TO THOSE SURVEYS RECORDED UNDER A.F.N.(S) 8708240422, 9612040116, 200608225001. HOWEVER, IN 1995, THE DEPARTMENT OF NATURAL RESOURCES FILED AN AMENDED PLAT OF GIG HARBOR TIDELANDS AND HARBOR LINES. (SEE A.F.N. 9512140115, RECORDS OF PIERCE COUNTY) ON SHEET 3 OF 3 OF THIS AMENDED PLAT, THERE WAS A CHANGE IN THE LOCATION OF THE SIDELINES OF BOTH BLOCKS "A" AND "B" FROM THE 1974 PLAT WITHOUT A CHANGE IN THE DESCRIPTION (WHICH WAS CITED AS THE BASIS OF THE BLOCKS). BASED ON THE AMENDMENT NOTE ON SHEET 1 OF 3, BOUNDARY ERRORS IN THE 1974 PLAT WERE CORRECTED IN BLOCKS "C AND "F", BUT MADE NO REFERENCE TO BLOCKS "A" AND "B" (SEE WAC 332--130--050(3)(c)(iii)). FROM THIS INFORMATION, IT IS THE OPINION OF THIS SURVEYOR THAT THERE SHOULD BE NO CHANGE TO THE EAST SIDELINE OF BLOCK "A" AND THE WEST SIDELINE OF BLOCK "B". TO ACCEPT THE SIDELINES DEFINED UNDER THIS 1995 AMENDED PLAT WOULD DRASTICALLY IMPACT THE PRIVATE OWNERSHIP RIGHTS ALREADY CONVEYED BY THE STATE OF WASHINGTON WITHIN THIS AREA. HOWEVER, ACCORDING TO THE LAND SURVEY SECTION OF THE DNR, THE 1974 PLAT WAS IN ERROR BASED ON THE RELATIONSHIP OF THE TIDELANDS DISPOSAL POLICY OF PAYMENT PER LINEAR CHAIN OF OWNERSHIP ALONG THE MEAN LOW TIDE LINE. THIS POLICY CHALLENGES PRIOR DEEDS BUT DEVELOPS A MORE EQUITABLE SOLUTION FOR THE UPLAND OWNERS, THUS ALLOWING EVERY UPLAND OWNER THE RIGHT OF ACCESS TO THE HARBOR AREA. THIS ALTERNATIVE SOLUTION TO THE LOCATION OF THE SIDELINES OF BLOCKS "A" AND "B" IS SHOWN HEREON AND IS USED FOR THIS SURVEY.

2) BASED ON INFORMATION OBTAINED FOR THIS SURVEY, THE MAP OF GIG HARBOR TIDELANDS OF 1974 SHOWS THAT THE LINE OF EXTREME LOW TIDE IS LOCATED NEAR THE INNER HARBOR LINE AND IS ACCEPTED BY JACK BOLTON (SEE RECORD OF SURVEY A.F.N. 8708240422) BASED ON INFORMATION OBTAINED FROM THE DEPARTMENT OF NATURAL RESOURCES -- LAND SURVEY DIVISION, THE ACCEPTED ELEVATION OF EXTREME LOW TIDE IN THE PUGET SOUND BASIN IS --4.5' MLLW AND WAS HELD AS THE LINE BETWEEN PUBLIC AND PRIVATELY OWNED TIDELANDS FOR THIS SURVEY. HOWEVER, IT APPEARS THAT DREDGING MAY HAVE TAKEN PLACE PRIOR TO THIS SURVEY NEAR THE END OF THE DOCK AND COULD AFFECT THE LOCATION OF THE EXTREME LOW TIDE. THEREFORE, HISTORICAL EVIDENCE OF THE LOCATION OF THE (--4.5') EXTREME LOW TIDE CONTOUR WAS USED. THIS HISTORICAL EVIDENCE WAS BASED ON A US COAST AND GEODETIC HYDROGRAPHIC SURVEY NO. 5931 COMPLETED IN 1935 FOR THE SOUTH END OF COLVOS PASSAGE.

3) THE MEANDER LINE DATA SHOWN HEREON IS BASED FROM THAT DATA SHOWN ON RECORD OF SURVEY RECORDED UNDER A.F.N. 8708240422. THE INITIAL POINT FOR THE MEANDER LINE IS A CALCULATED POSITION OF THE MEANDER CORNER BASED ON THE AFOREMENTIONED SURVEY AT WHICH A STONE WAS FOUND BY JACK BOLTON, PLS. THIS POSITION FOR THE MEANDER CORNER IS ALSO SHOWN AND ACCEPTED ON RECORD OF SURVEY(S) A.F.N.(S) 1726, 9605090296, 9612040116, AND 200309045001.

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS MAP CORRECTLY REPRESENTS AN AS--BUILT SURVEY MADE BY ME OR UNDER MY DIRECTION AND THAT TO THE BEST OF MY KNOWLEDGE REPRESENTS ONLY THE LOCATION OF THOSE SPECIFIC IMPROVEMENTS AS THEY EXISTED ON THE GROUND AS OF 12/11/08. NO OTHER UTILITY OR IMPROVEMENT DATA WAS VERIFIED DURING THIS SURVEY.

AARON B. BLAISDELL P.L.S. # 41278 DATE

STATE OF WASHINGTON AARON B. BLAISDELL 41278 REGISTERED PROFESSIONAL LAND SURVEYOR
EXPIRES: 10/11/

PRIZM SURVEYING INC.
P. O. BOX 110700
TACOMA WA. 98411
ESTABLISHED 1993
OFFICE 253--404--0983
FAX 253--404--0984
CONSERVATION LAYOUT -- BOUNDARY AND TOPOGRAPHIC SURVEYS

DATE OF SURVEY	12/11/2008
DRAWN BY	JW/DMH
DATE	02/20/2009

N

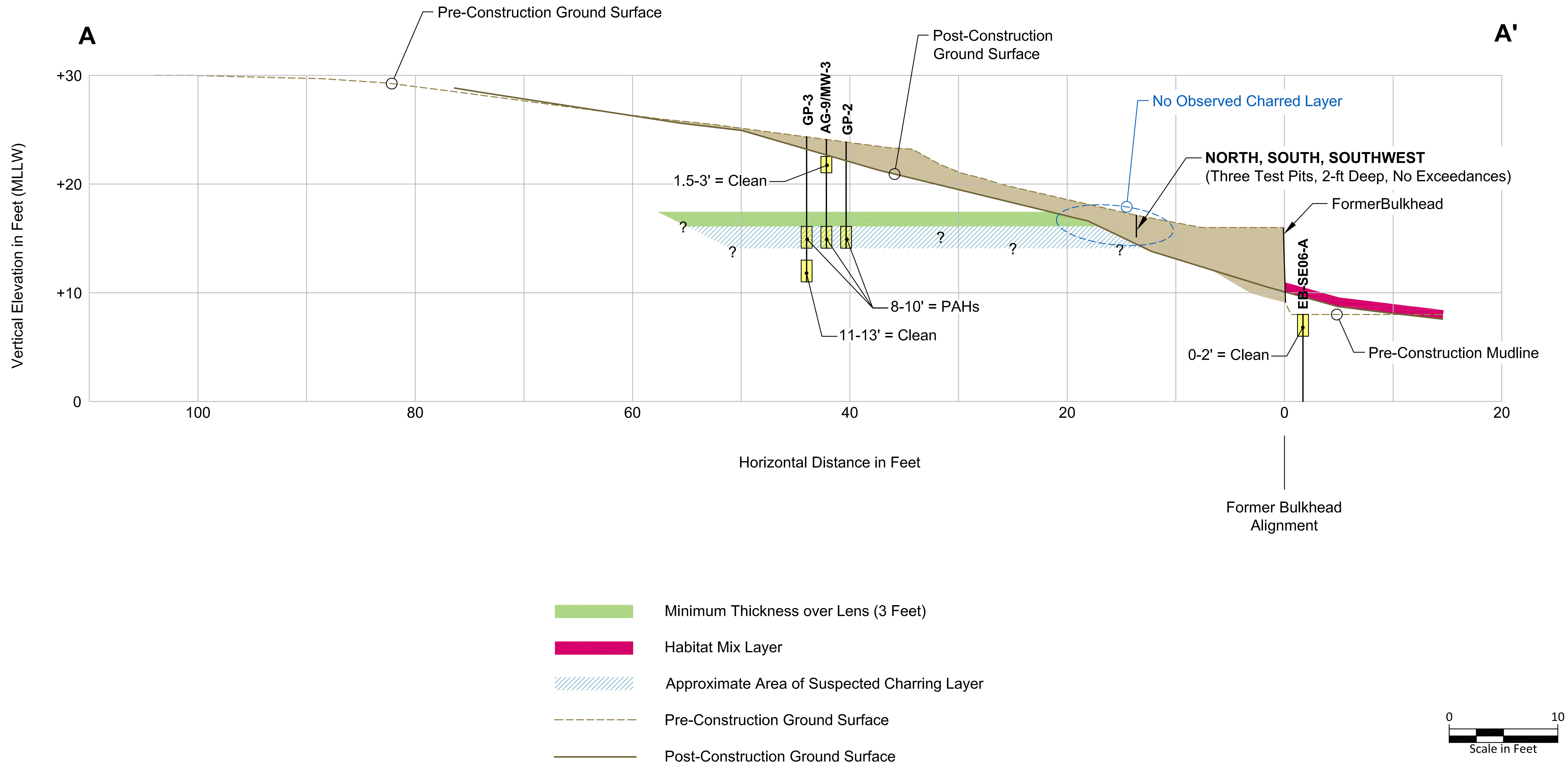
0 60
Scale in Feet

SOURCE: DRAWING PREPARED FROM ELECTRONIC FILE PROVIDED BY PRIZM SURVEYING, INC. DATED 02/20/2009 AND PRESENTS POST-REMEDIATION CONDITIONS.

Apr 16, 2009 4:02pm herlksen K:\Jobs\040289-Harbor Cove_Gig Harbor\04028902\04028902-74.dwg F3

ANCHOR QEA

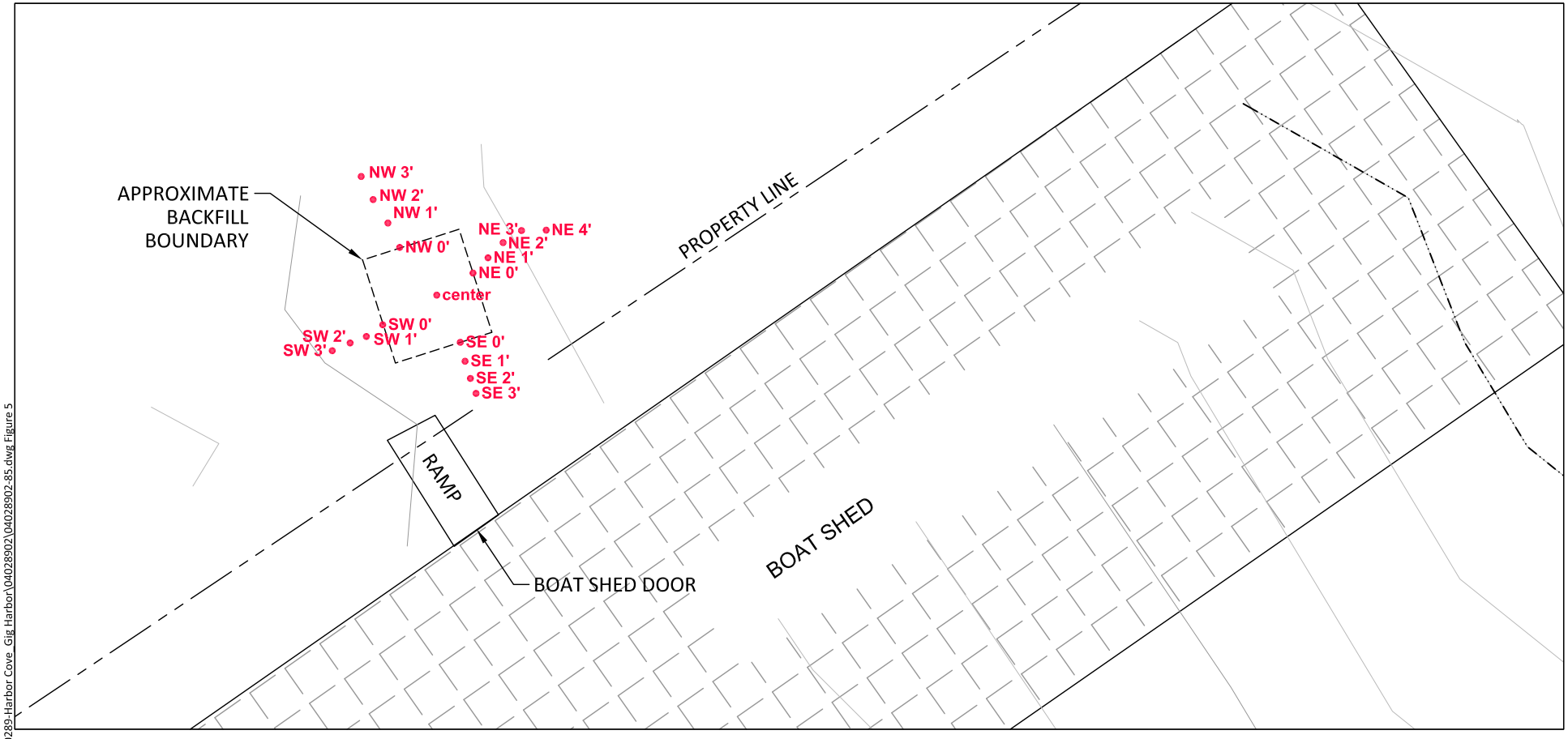
Figure 3
Sediment Remediation As-Built Survey
Project Completion Report
Eddon Boat Park Cleanup Action Project



Aug 17, 2009 3:29pm heriksen K:\Jobs\040289-Harbor Cove_Gig Harbor\04028902\04028902-81.dwg F4

ANCHOR QEA

Figure 4
Area AG-9 Post Construction - Cross Section View
Project Completion Report
Eddon Boat Park Cleanup Action Project



NOTES:

1. Bathymetric and topographic survey by Prizm Surveying, Inc. dated 12/11/2008.
2. 0',1',2',3' signifies lateral distance.
3. Sample EB-SO01-comp taken from sidewalls prior to backfill.
4. Sample names indicate the direction and distance from backfill area. For example, NW 1' was taken 1' from the northeast boundary of the fill area.
5. Sample composites were created from various depths. For example, AHA-01-1 NE (0-3) was a composite of the 0-1', 1-2', and 2-3' intervals taken from location NE 1'.

0 8

Scale in Feet

Oct 05, 2011 2:39pm heriksen K:\Jobs\040289-Harbor Cove Gig Harbor\04028902\04028902-85.dwg Figure 5

ANCHOR QEA

Figure 5
AHA-1 Sample Locations
Project Completion Report
Eddon Boat Park Cleanup Action Project

APPENDIX A
PROJECT PERMITS

DEPARTMENT OF THE ARMY
SEATTLE DISTRICT, CORPS OF ENGINEERS
P.O. BOX 3755
SEATTLE, WASHINGTON 98124-3755

REPLY TO
ATTENTION OF

Regulatory Branch

MAR 20 2008

Mr. Steve Misiurak, P.E., City Engineer
City of Gig Harbor
3510 Grandview Street
Gig Harbor, Washington 98335

Reference: NWS-2007-785-SO
Gig Harbor, City of

Dear Mr. Misiurak:

Enclosed for your signature are two initial proffered Department of the Army permit forms for your proposal to cleanup contaminated sediments in Gig Harbor, Puget Sound at the City of Gig Harbor, Washington as described in the enclosed drawings dated June, 2007. If you object to this permit decision, you may submit your objections on the enclosed *Notification of Administrative Appeal Options and Process and Request for Appeal* form. For your objections to be considered, the appeal form describing your objections must be received in our office within 60 days of the date on the appeal form.

If the entire permit is acceptable, you must sign and date both permit forms and return them in the enclosed envelope. Your copy of the fully executed permit will then be returned to you. You may not modify these permit forms or their accompanying drawings. By signing the permit forms you will be indicating your acceptance of all the permit's general and special conditions. The signed permit forms must be returned to us within 90 days from the date of this letter or your application will be canceled.

Since a Department of the Army permit is necessary for this work, do not commence construction before obtaining a valid permit. You can begin the work authorized by this permit only after you have received your copy of the fully executed permit form. If you have any questions, please contact Mr. Jim Green at (206) 764-6906 or via email at james.d.green@usace.army.mil.

Sincerely,

for Michelle Walker
Chief, Regulatory Branch

Enclosures

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: City of Gig Harbor	File Number: NWS-2007-785-SO	Date:
Attached is:		See Section below
X	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A
	PROFFERED PERMIT (Standard Permit or Letter of permission)	B
	PERMIT DENIAL	C
	APPROVED JURISDICTIONAL DETERMINATION	D
	PRELIMINARY JURISDICTIONAL DETERMINATION	E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at http://usace.army.mil/inet/functions/cw/cecwo/reg or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also, you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact:

James Green, Project Manager
U.S. Army Corps of Engineers, Seattle District
Post Office Box 3755
Seattle, Washington 98124-3755
Telephone: (206) 764-6906

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15-day notice of any site investigation, and will have the opportunity to participate in all site investigations.

	Date:	Telephone number:
_____ Signature of appellant or agent.		

MEMORANDUM OF AGREEMENT
BETWEEN THE U.S. ARMY CORPS OF ENGINEERS
AND THE WASHINGTON STATE DEPARTMENT OF ARCHAEOLOGY AND
HISTORIC PRESERVATION REGARDING
HISTORIC PROPERTIES AT THE EDDON BOATYARD,
GIG HARBOR, PIERCE COUNTY, SEATTLE WASHINGTON

WHEREAS, the U.S. Army Corps of Engineers, Seattle District (Corps) has determined that a permit action under its authority will have an adverse effect on the Eddon Boatyard, a property eligible for listing in the National Register of Historic Places, and has consulted with the Washington State Department of Archaeology and Historic Preservation (WADAHP) pursuant to 36 CFR Part 800, regulations implementing Section 106 of the National Historic Preservation Act (16 U.S.C. Section 470f); and

WHEREAS, the Corps has consulted with the property owner, the City of Gig Harbor (City), regarding the effects of the undertaking on historic components of the Eddon Boatyard; and

WHEREAS, in accordance with 36 CFR Section 800.6(a)(1), the Corps has notified the Advisory Council on Historic Preservation (Council) of its adverse effect determination and the Council has chosen not to participate in the consultation pursuant to 36 CFR Section 800.6(a)(1)(iii);

WHEREAS, the City and WADAHP have agreed that reconstruction of historic features shall be undertaken according to "The Secretary of the Interior's Standards for the Treatment of Historic Properties (Reconstruction)," National Park Service, U.S. Department of the Interior, 1995;

NOW, THEREFORE, the Corps, the City, and the WADAHP agree that the undertaking shall be implemented in accordance with the following stipulations in order to take in to account the effect of the undertaking on historic properties:

STIPULATIONS

I. DOCUMENTATION

The City agrees to document structures planned for removal and demolition, principally the pilings, dock, gangway, bulkhead, and marine railway in both narrative, map, and photographic formats according to Level 2 recordation standards of the WADAHP. Photographs and recordation of features shall be captured prior to removal; and one copy each of final documentation products provided to the Corps and WADAHP no later than 30 September 2008.

II. DECONSTRUCTION

Prior to removal, the City shall identify the deconstruction methodology to be implemented, as well as procedures to salvage historic material to be used in reconstruction, and shall submit a deconstruction plan to WADAHP for a 30-day review and comment period.

III. DURATION

This agreement is in effect for three years from the date of signature by all signatory parties.

IV. DISCOVERIES

If unanticipated historic properties are discovered during the course of the project, the Corps shall immediately notify the WADAHP, and tribal cultural authorities for the Puyallup, Nisqually, and Suquamish tribes. Unanticipated Discoveries are addressed in the monitoring plan attached herein as Appendix A.

V. DISTRIBUTION OF MITIGATION DOCUMENTS

The city shall provide one hard copy and a one CD copy of all mitigation documents to all signatory parties, including one hard copy and one CD copy to the Pierce County Historic Preservation program.

VI. DISPUTE RESOLUTION

Should any party to this agreement object at any time to any actions proposed or the manner in which the terms of this MOA are implemented, the Corps shall consult with the objecting party(ies) to resolve the objection. If the Corps determines, within 30 days, that such objection(s) cannot be resolved, the Corps will;

A. Forward all documentation relevant to the dispute to the Council in accordance with 36 CFR Section 800.2(b)(2). Upon receipt of adequate documentation, the Council shall review and advise the Corps on the resolution of the objection within 30 days. Any comment provided by the Council, and all comments from the parties to the MOA, will be taken into account by the Corps in reaching a final decision regarding the dispute.

B. If the Council does not provide comments regarding the dispute within 30 days after receipt of adequate documentation, the Corps may render a decision regarding the dispute. In reaching its decision, the Corps will take into account all comments regarding the dispute from the parties to the MOA.

C. The Corps' responsibility to carry out all other actions subject to the terms of this MOA that are not the subject of the dispute remain unchanged. The Corps will notify all parties of its decision in writing before implementing that portion of the Undertaking subject to dispute under this stipulation. The Corps' decision will be final.

VII. AMENDMENTS AND NONCOMPLIANCE

If any signatory to this MOA determines that its terms will not or cannot be carried out or that the amendment to its terms must be made, that party shall immediately consult with the other parties to develop an amendment to this MOA pursuant to 36 CFR § 800.6(c)(7) and 800.6(c)(8). The amendment will be effective on the date a copy signed by all of the original signatories is filed with the

Council. If the signatories cannot agree to appropriate terms to amend the MOA, any signatory may terminate the agreement in accordance with Stipulation VI., below.

VIII. TERMINATION

If the MOA is not amended following the process set out in Stipulation VII., it may be terminated by any signatory or invited signatory. Within 30 days following termination, the Corps shall notify the signatories if it will initiate consultation to execute an MOA with the signatories under 36 CFR § 800.6(c)(1) or request the comments of the council under 36 CFR § 800.7(a) and proceed accordingly.

Execution of this Memorandum of Agreement by the Corps and WASHPO, the submission of documentation and filing of this Memorandum of Agreement with the Council pursuant to 36 CFR § 800.6(b)(1)(iv) prior to the Corps' approval of this undertaking, and implementation of its terms evidence that the Corps has taken into account the effects of this undertaking on historic properties and afforded the Council an opportunity to comment.

SIGNATORIES:

U.S. Army Corps of Engineers, Seattle District

Michael McCormick Date 14 Mar 08

Col. Michael McCormick, Commanding

State Historic Preservation Office

Allyson Brooks Date 2/28/08

Allyson Brooks, Ph.D., State Historic Preservation Officer

INVITED SIGNATORY:

City of Gig Harbor

Charles L Hunter Date Feb 26, 08

The Honorable Chuck Hunter, Mayor

APPENDIX A
PROTOCOL AND PROCEDURES FOR ARCHAEOLOGICAL MONITORING, TREATMENT OF ARCHAEOLOGICAL RESOURCES AND INADVERTENT DISCOVERY OF HUMAN REMAINS.

Procedures for Archaeological Monitoring and the Treatment of Archaeological Resources

1. Archaeological monitoring a professional archaeologist who meets the Secretary of the Interior's qualifications (36 CFR Part 61) will take place during all ground disturbing activities which have the potential to penetrate native deposits within the Eddon Boat Yard permit area.

2. The City of Gig Harbor's construction contractor will brief the archeologist on any health and safety elements under which the archaeologist will perform the monitoring. The archaeologist will provide the proper personal protective equipment (e.g., hard hat, steel toed shoes, and safety glasses) as required for project health and safety.

3. The City will arrange for the archaeologist to brief the Construction Supervisor(s) about the procedures for the event of encountering archaeological deposits and human remains described herein.

4. The City will inform all construction contractor(s) about the archaeological monitoring procedures and protocols. The City will authorize the archaeologist to pause construction periodically as needed for a closer examination of exposed sediments and/or historic-period and pre-contact period artifacts.

5. The archaeologist will record the daily progress of the construction and monitoring work. At the completion of the monitoring, the Archaeologist will prepare a report on the methods and results of the work, illustrated with maps, drawings, and photographs as appropriate.

6. After monitoring has been completed, the final disposition of any artifacts or other cultural material collected will be determined by the City in consultation with the interested and involved parties.

Discovery Procedures for Recording of Incidental Features and Artifacts.
If incidental or demonstrably non-NRHP eligible cultural materials or features are discovered during construction, the Monitor will immediately halt work at that location and notify the on-site Construction Supervisor. Incidental or demonstrably non-NRHP eligible cultural materials or features include—but are not limited to—isolated pre-contact or historic period artifacts, and cultural materials younger than 50 years old. The discovery area and a surrounding buffer zone shall then be delineated with flags tied to long stakes that are driven in to the ground. These stakes shall not be removed. The Monitor will thoroughly document and sample the cultural material. The buffer zone established around the discovery zone shall be large enough to allow ground disturbance activities to resume outside the buffer.

Protocol for Inadvertent Discovery of Potentially NRHP Eligible Cultural Resources.

If potentially NRHP eligible cultural resources are discovered, the Monitor will immediately halt work at that location and notify the on-site Construction Supervisor. Potentially NRHP eligible cultural materials include; evidence of prehistoric or historic features including postholes/molds, hearths, pits, walls, foundations, and other evidence of structural remains; shell midden, non-human bone, lithic debitage, formed-stone –bone –shell –wood or –fiber implements, historic-period glass and ceramics. The discovery area and a surrounding buffer zone will then be delineated with flags tied to long stakes that are driven in to the ground. These stakes shall not be removed. The buffer zone established around the discovery zone shall be large enough to allow ground disturbing activities to resume outside the buffer. The Monitor will then coordinate with the on-site Construction Supervisor to determine whether further impacts to the NRHP eligible cultural resources can be avoided in which case the Monitor will thoroughly document and sample the disturbed cultural material. If further impacts to the NRHP eligible cultural resources cannot be avoided, the Monitor shall contact the Corps Archaeologist. The Corps will then immediately notify affected Tribes and the DAHP. The Corps, in consultation with the DAHP and affected Tribes, will determine the next course of action.

Protocol for Inadvertent Discovery of Human Remains.

Any time that a bone, which may or may not be human, or any funerary object is discovered, construction activity will cease immediately to allow the Monitor to conduct a preliminary analysis to determine if the remains are human. Funerary objects can include, but are not limited to, items made of copper; shell and ground-stone beads; ground-stone, carved-bone, and shell adornments; and carved/ground objects representing people or animals. Upon such a discovery, no additional excavation or stockpiling of materials will occur and the area of discovery and a surrounding buffer zone shall then be delineated with flags tied to long stakes driven into the ground. These stakes shall not be removed. The buffer zone established around the discovery area shall be large enough to allow ground disturbing activities outside of the buffer. If the Monitor is not present at the time of the discovery the on-site Construction Supervisor will first insure that the discovery area and a sufficient buffer zone is flagged-off and secured from further disturbance, and then will contact the Monitor. The Monitor shall proceed with the following steps:

1. If the material is determined to be human or possibly human, the Monitor will immediately notify the on-site Construction supervisor, the Pierce County Sheriff and Medical Examiner, the Corps Archaeologist. The Corps will then immediately notify the affected Tribes and the DAHP.

2. If the Medical Examiner determines the remains are not Native American, or they represent a recent crime scene, the remains may be turned over to the Medical Examiner. If the remains are determined to be Native American, the Corps, in consultation with the DAHP and affected Tribes, will determine the next course of action.

3. Exposed Native American human remains and any associated or non-associated funerary objects will be treated with dignity and respect. Prior to ultimate disposition, these remains and/or funerary objects will be temporarily re-buried or protected in other ways in accordance with the wishes of the affected Tribes. No additional excavation of these remains and/or funerary objects shall take place without Corps, and no exposed remains or funerary objects shall be left unattended in the field unless otherwise directed by the Corps.

4. Ground disturbance activities within the discovery area and the buffer shall not resume until, the Corps, in consultation with the DAHP and affected Tribes (and the Medical Examiner if applicable), has determined proper disposition of the remains and has given permission, in writing, to proceed.

5. The Monitor will prepare a professional report that describes the discovery, notification of concerned parties, steps taken in response to the discovery, and the final disposition of remains. The report shall be submitted to the Corps within 13 months of permit issuance.

Contacts

Corps Archaeologist
Elizabeth A. Ellis
Environmental Resources Section, Staff Archaeologist
Phone 206-764-3634
Alternate phone (206) 764-3576

Department of Archaeology and Historic Preservation
Dr. Robert Whitlam
State Archaeologist
Phone (360) 586-3080

The Puyallup Tribe of Indians
Judy Wright
Cultural Resources Manager
Phone (253) 573-7897

The Suquamish Tribe
Dennis Lewarch
Tribal Historic Preservation Officer
Phone (360) 394-8529

Pierce County Sheriff
(253) 798-4721 (#1)

Pierce County Medical Examiner
(253) 798-6494

DEPARTMENT OF THE ARMY
SEATTLE DISTRICT, CORPS OF ENGINEERS
P.O. BOX 3755
SEATTLE, WASHINGTON 98124-3755

REPLY TO
ATTENTION OF

Regulatory Branch

MAR 20 2008

Mr. Steve Misiurak, P.E., City Engineer
City of Gig Harbor
3510 Grandview Street
Gig Harbor, Washington 98335

Reference: NWS-2007-785-SO
Gig Harbor, City of

Dear Mr. Misiurak:

Enclosed is a Department of the Army permit which authorizes the performance of the work described in your referenced application. You are cautioned that any change in the location or plans of the work will require submittal of revised plans to this office for approval prior to accomplishment. Deviation from the approved plans may result in imposition of criminal or civil penalties.

Your attention is drawn to General Condition 1 of the permit which specifies the expiration date for completion of the work. Upon completing the authorized work, please fill out and return the enclosed *Certificate of Compliance with Department of the Army Permit* form.

We are interested in your experience with our Regulatory Program and encourage you to complete a customer service survey form. This form and information about our program is available on our website at: www.nws.usace.army.mil (select "Regulatory" and then "Regulatory/Permits").

A copy of this letter without enclosures will be furnished to Ms. Heather Page, Anchor Environmental, LLC, 1423 Third Avenue, Suite 300, Seattle, Washington, 98101. If you have any questions, please contact Mr. Jim Green at (206) 764-6906 or via email at james.d.green@usace.army.mil.

Sincerely,

for Michelle Walker
Chief, Regulatory Branch

Enclosure

US Army Corps
of Engineers ®
Seattle District

CERTIFICATE OF COMPLIANCE WITH DEPARTMENT OF THE ARMY PERMIT

Permit Number: NWS-2007-785-SO

Name of Permittee: City of Gig Harbor

Date of Issuance: MAR 20 2008

Upon completion of the activity authorized by this permit, please check the applicable boxes below, sign this certification, and return it to the following address:

Department of the Army
U.S. Army Corps of Engineers
Seattle District, Regulatory Branch
Post Office Box 3755
Seattle, Washington 98125-3755

Please note that your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with the terms and conditions of your authorization, your project is subject to suspension, modification, or revocation.

☐ The work authorized by the above-referenced permit has been completed in accordance with the terms and conditions of this permit.

☐ The mitigation required (not including monitoring) by the above-referenced permit has been completed in accordance with the terms and conditions of this permit.

_____
Signature of Permittee

DEPARTMENT OF THE ARMY PERMIT

Permittee: City of Gig Harbor

City of Gig Harbor
3510 Grandview Street
Gig Harbor, Washington 98335

Issuing Office: Seattle District

Permit No: NWS-2007-785-SO

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the U.S. Army Corps of Engineers (Corps) having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: Cleanup contaminated sediments at the Gig Harbor Eddon Boatyard property including the following activities: 1) remove existing gangway and float (will be reinstalled following cleanup, 2) demolish existing marine railways and pier (including the removal of 87 creosote-treated piling, 3) dredge contaminated sediments (2,000 cubic yards of silty, sandy sediment) to a depth of 2 to 3 feet below the existing surface in specified areas (0.5 acre area), 4) perform sampling in dredged areas that will not receive backfill to ensure cleanup levels are achieved, 5) place an engineered cap consisting of a 1-foot thickness of sand covered by 6-inches of habitat material (2,500 cubic yards) in specified areas, 6) remove creosote-treated bulkhead (1,600 square feet including 26 creosote-treated piles) and re-grade slope, and 7) rebuild marine railway and pier (includes reinstallation of existing gangway and float) in accordance with the plans and drawings dated June, 2007 attached hereto which are incorporated in and made a part of this permit (to support future waterfront park development and public use through cleanup of contaminated sediments and improvements to the property)).

Project Location: In Gig Harbor, Puget Sound at the City of Gig Harbor, Pierce County, Washington.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on MAR 20 2011. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least 1 month before the above date is reached.

2. You must maintain the activity authorized by this permit in good condition and in accordance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification to this permit from this office, which may require restoration of the area.

3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.

6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

7. After a detailed and careful review of all the conditions contained in this permit, the permittee acknowledges that, although said conditions were required by the Corps, nonetheless the permittee agreed to those conditions voluntarily to facilitate issuance of the permit; the permittee will comply fully with all the terms of all the permit conditions.

Special Conditions:

a. You must provide a copy of the permit transmittal letter, the permit form, and drawings to all contractors performing any of the authorized work.

b. The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the U.S. Army Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

c. You must implement the ESA requirements and/or agreements set forth in the *Biological Evalulation, Eddon Boatyard Sediment Cleanup Project* dated May 2007, in their entirety. The National Marine Fisheries Service concurred with a finding of "may affect, not likely to adversely affect" based on this document on October 10, 2007 (NMFS Reference No. 2007/04886).

d. In order to protect Chinook salmon and bull trout, the permittee may conduct the authorized activities only during the work windows specified in the National Marine Fisheries Service letter dated October 10, 2007.

e. You must implement all requirements set forth in the 14 March 2008 Memorandum of Agreement between the U.S. Army Corps of Engineers, the City of Gig Harbor, and the Washington State Historic Preservation Officer.

Further Information:

1. Congressional Authorities. You have been authorized to undertake the activity described above pursuant to:

(X) Section 10 of the Rivers and Harbor Act of 1899 (33 U.S.C. 403).

(X) Section 404 of the Clean Water Act (33 U.S.C. 1344).

( ) Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C 1413).

2. Limits of this authorization.

a. This permit does not obviate the need to obtain other Federal, State, or local authorization required by law.

b. This permit does not grant any property rights or exclusive privileges.

c. This permit does not authorize any injury to the property or rights of others.

d. This permit does not authorize interference with any existing or proposed Federal project.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

a. Damages to the permitted project or uses thereof as a result of other permitted activities or from natural causes.

b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

d. Design or construction deficiencies associated with the permitted work.

e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data. The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of the permit.

b. The information provided by you in support of your application proves to have been false, incomplete, or inaccurate (See 4 above).

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

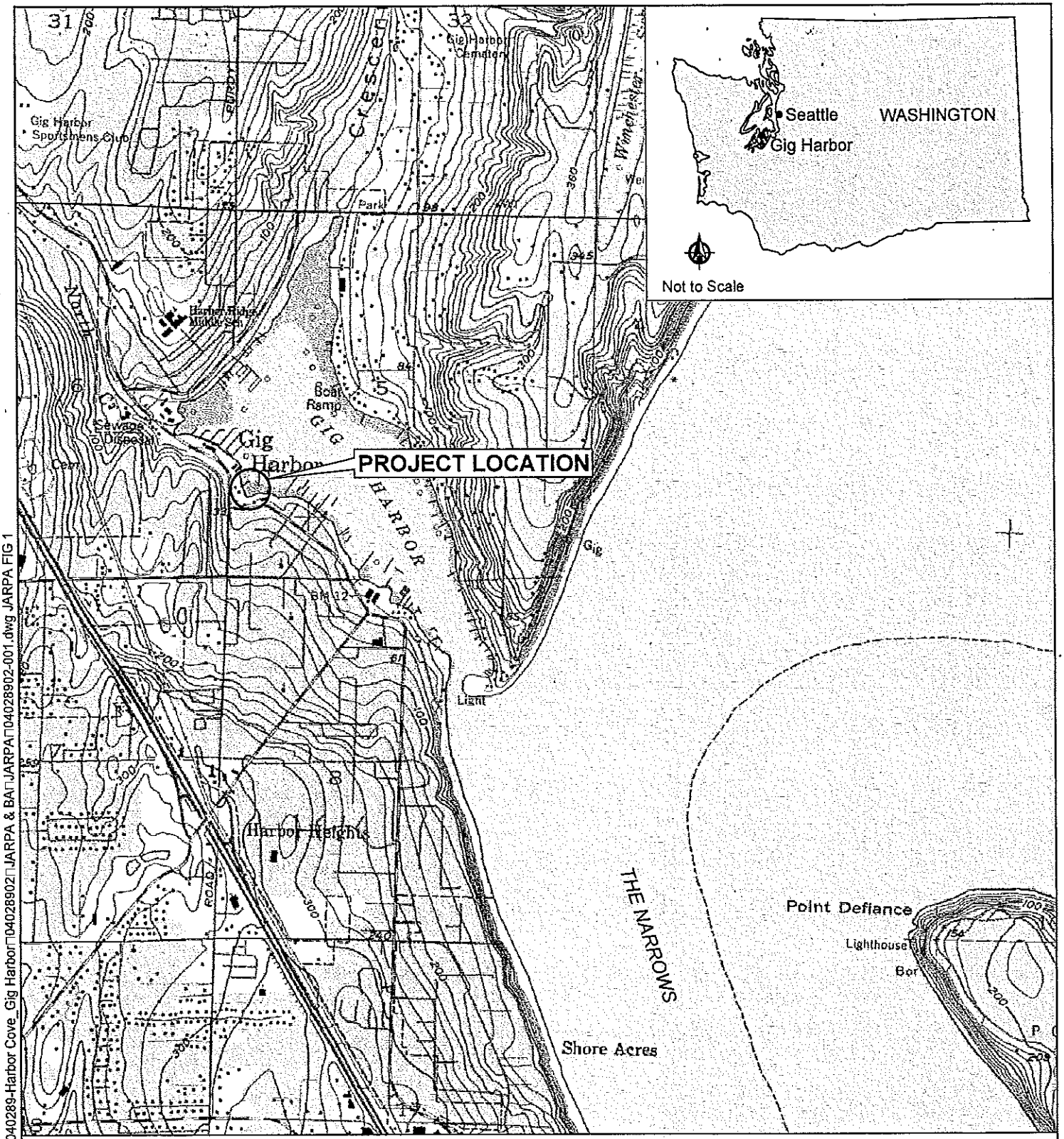
X Charles L Hunter _____ March 20, 2008 _____
(DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

for Jessica Watts _____ 3/20/08 _____
Michael McCormick (DATE)
Colonel, Corps of Engineers
District Engineer

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

_____ _____
(TRANSFEREE) (DATE)



NOTE: BASE MAP PREPARED FROM TERRAIN NAVIGATOR PRO USGS 7.5 MINUTE QUADRANGLE MAP OF GIG HARBOR, WASHINGTON.

0 2000
SCALE IN FEET

VICINITY MAP

PURPOSE: SUPPORT FUTURE PARK DEVELOPMENT AND PUBLIC USE THROUGH CLEANUP OF CONTAMINATED SEDIMENTS AND SITE IMPROVEMENTS

DATUM: LAT 47°20'03.79" LONG 122°35'17.43"
MLLW = 0.0 ~ M.O.S.
S5 T21N R2E

ADJACENT PROPERTY OWNERS:
FAIRWAY HOLDINGS LLC AND STEVE NIKOLICH

NAME: EDDON BOATYARD SEDIMENT CLEANUP PROJECT

REFERENCE #
NWS-2007-785-SO

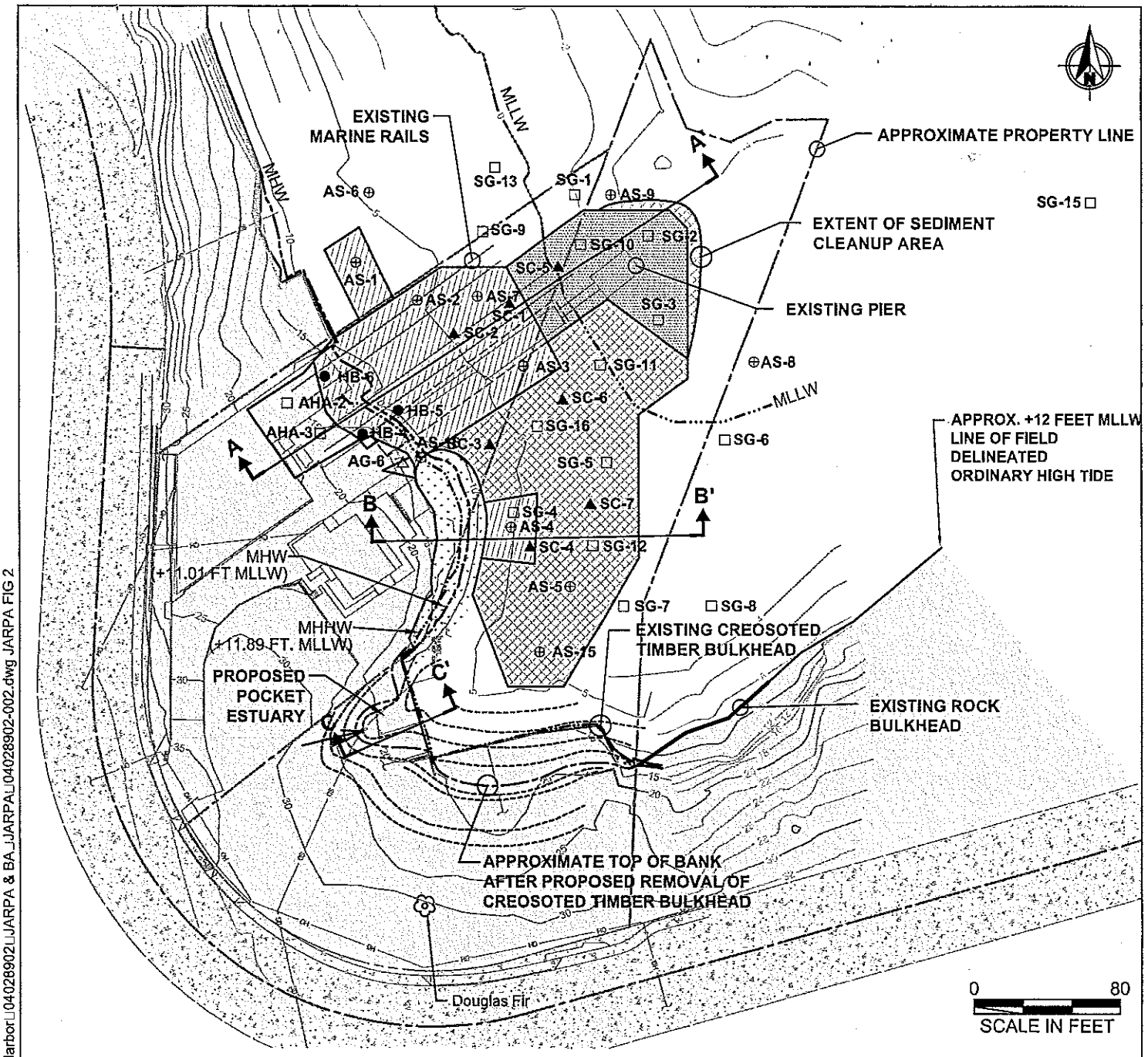
SITE LOCATION ADDRESS:
3711 AND 3805 HARBORVIEW DRIVE
GIG HARBOR, WASHINGTON 98335

PROPOSED: DREDGE, BACKFILL, & CAP; REMOVE STRUCTURES; INSTALL NEW PIER & MARINE RAILS; REGRADE & HYDROSEED

IN: PUGET SOUND
NEAR: GIG HARBOR
COUNTY OF: PIERCE
STATE: WASHINGTON

DATE: MAY 2007 SHEET: 1 OF 10

K:\Jobs\040289-Harbor Cove_Gig Harbor\040289\02\JARPA & BA\JARPA\040289\02-001.dwg JARPA FIG 1
Jun 28, 2007 11:41am heriksen



EXISTING OUTFALL

PARCEL BOUNDARY

CONTOUR IN FEET (APPROXIMATE)

EXISTING SALT MARSH VEGETATION (CAT. II ESTUARINE WETLAND)

BANK CONTOURS AFTER BULKHEAD REMOVAL

HISTORICAL FOOTPRINT OF PIER

B B' CROSS SECTION LOCATION AND DESIGNATION

ANCHOR SAMPLE LOCATION AND NUMBER

AS-1 ⊕ SURFACE SEDIMENT

AG-1 △ GEOPROBE

AHA-1 □ HAND AUGER

SC-1 ▲ SUBSURFACE SEDIMENT CORE

SG-7 □ SURFACE SEDIMENT

HB-1 ● EXISTING SOIL/SEDIMENT SAMPLE

DREDGE AND BACKFILL TO ORIGINAL GRADE

DREDGE WITHOUT BACKFILL TO ORIGINAL GRADE

SEDIMENT ISOLATION CAP

NOTES:
1. BASE MAP PREPARED FROM SURVEY PROVIDED BY DAVID EVANS AND ASSOCIATES DATED MAY 2006.
2. HORIZONTAL DATUM: SP NAD 83 WA SOUTH.
3. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW).
4. DREDGE 2,000 CY OF SILTY, SANDY SEDIMENT; LESS THAN 0.5 ACRE. CAP WITH 2,500 CY OF CLEAN SAND & HABITAT MATERIAL.
5. NO IMPACT TO WETLAND.

SITE PLAN

PURPOSE: SUPPORT FUTURE PARK DEVELOPMENT AND PUBLIC USE THROUGH CLEANUP OF CONTAMINATED SEDIMENTS AND SITE IMPROVEMENTS

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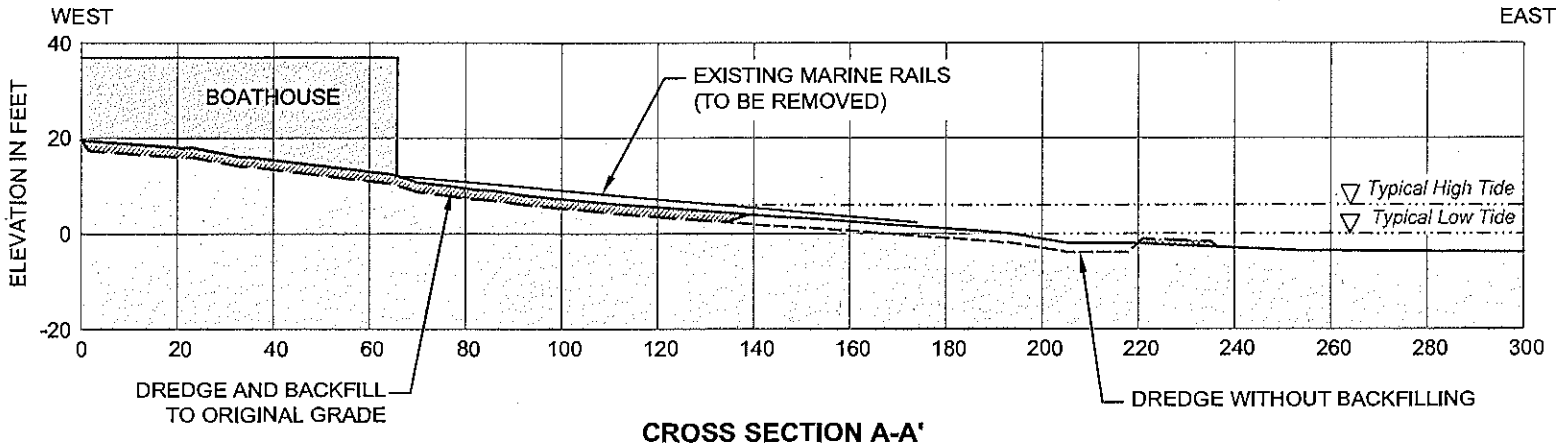
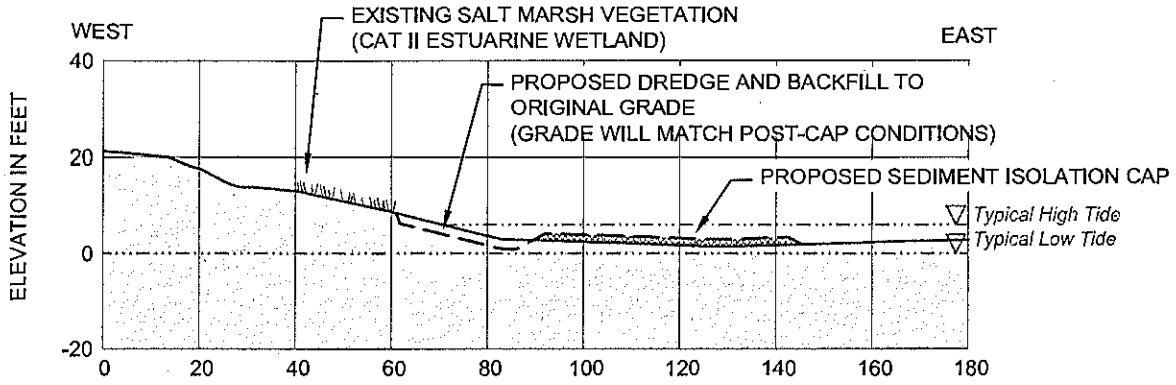
IN: PUGET SOUND
NEAR: GIG HARBOR
COUNTY OF: PIERCE
STATE: WASHINGTON

DATE: MAY 2007 SHEET: 2 OF 10

Jun 28, 2007 11:43am heriksen K:\Jobs_040289-Harbor Cove_Gig Harbor\04028902\JARPA & BA_JJARPA\04028902-002.dwg JARPA FIG 2



CROSS SECTION A-A'
LOOKING NORTH



CROSS SECTION B-B'
LOOKING NORTH

0 40
SCALE IN FEET

GENERALIZED CROSS SECTIONS FOR DREDGING AND CAPPING ALTERNATIVES A AND B

PURPOSE: SUPPORT FUTURE PARK DEVELOPMENT AND PUBLIC USE THROUGH CLEANUP OF CONTAMINATED SEDIMENTS AND SITE IMPROVEMENTS

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S5 T21N R2E

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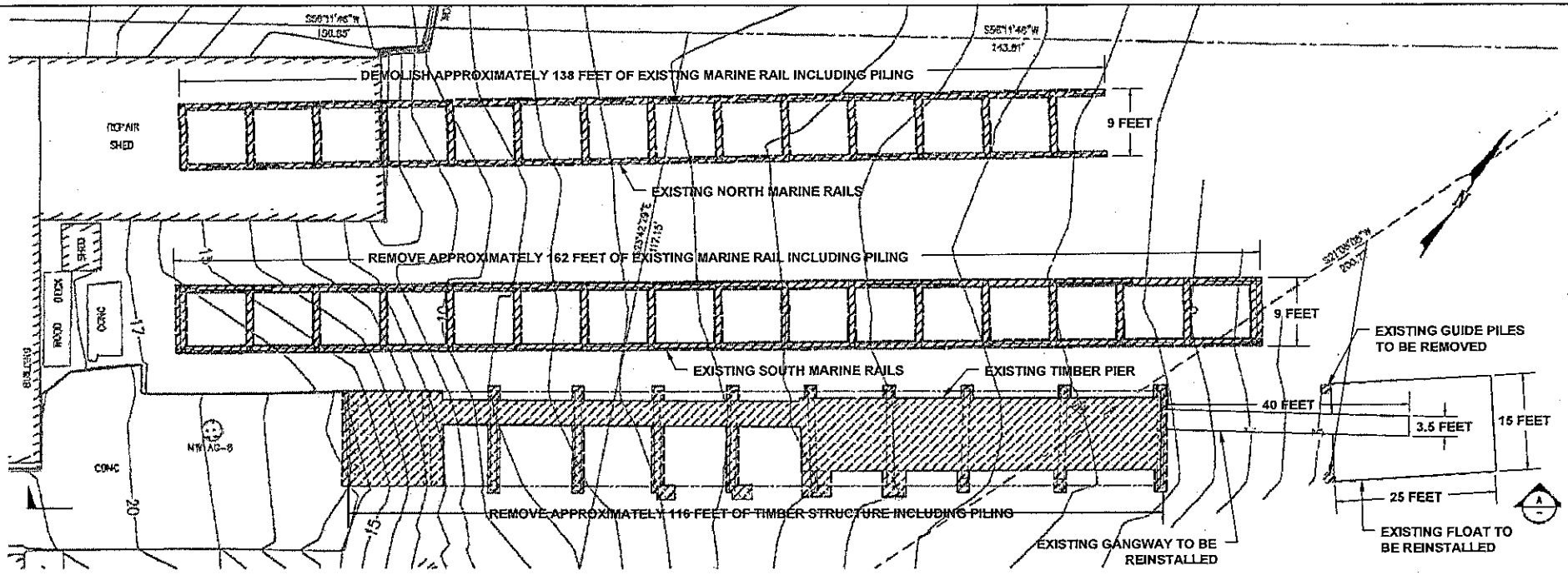
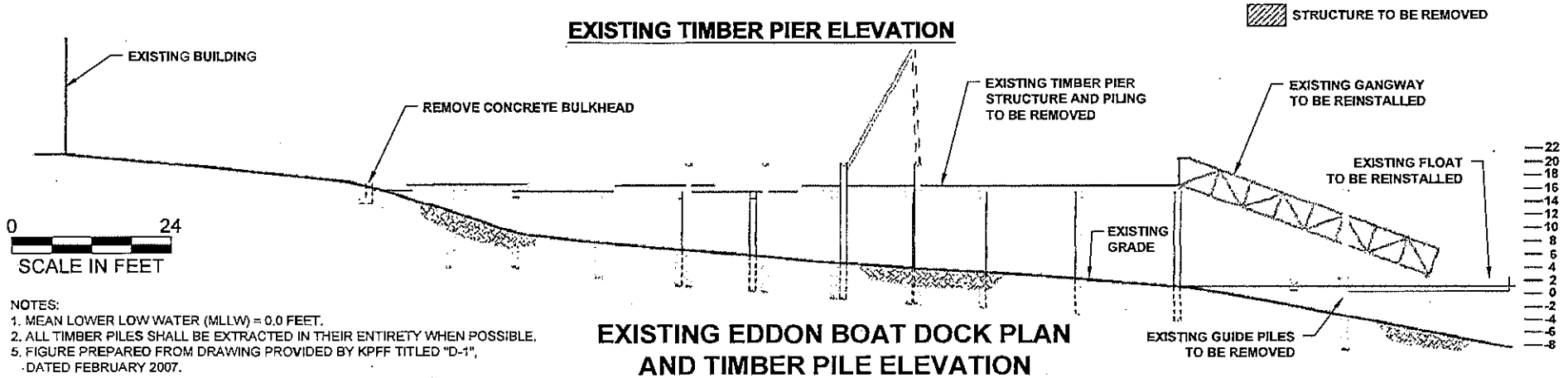
IN: PUGET SOUND
NEAR: GIG HARBOR
COUNTY OF: PIERCE
STATE: WASHINGTON

DATE: MAY 2007



EXISTING EDDON BOAT PARK DOCK PLAN

EXISTING TIMBER PIER ELEVATION



NOTES:
1. MEAN LOWER LOW WATER (MLLW) = 0.0 FEET.
2. ALL TIMBER PILES SHALL BE EXTRACTED IN THEIR ENTIRETY WHEN POSSIBLE.
5. FIGURE PREPARED FROM DRAWING PROVIDED BY KPFF TITLED "D-1", DATED FEBRUARY 2007.

EXISTING EDDON BOAT DOCK PLAN AND TIMBER PILE ELEVATION

PURPOSE: SUPPORT FUTURE PARK DEVELOPMENT AND PUBLIC USE THROUGH CLEANUP OF CONTAMINATED SEDIMENTS AND SITE IMPROVEMENTS

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S5 T21N R2E

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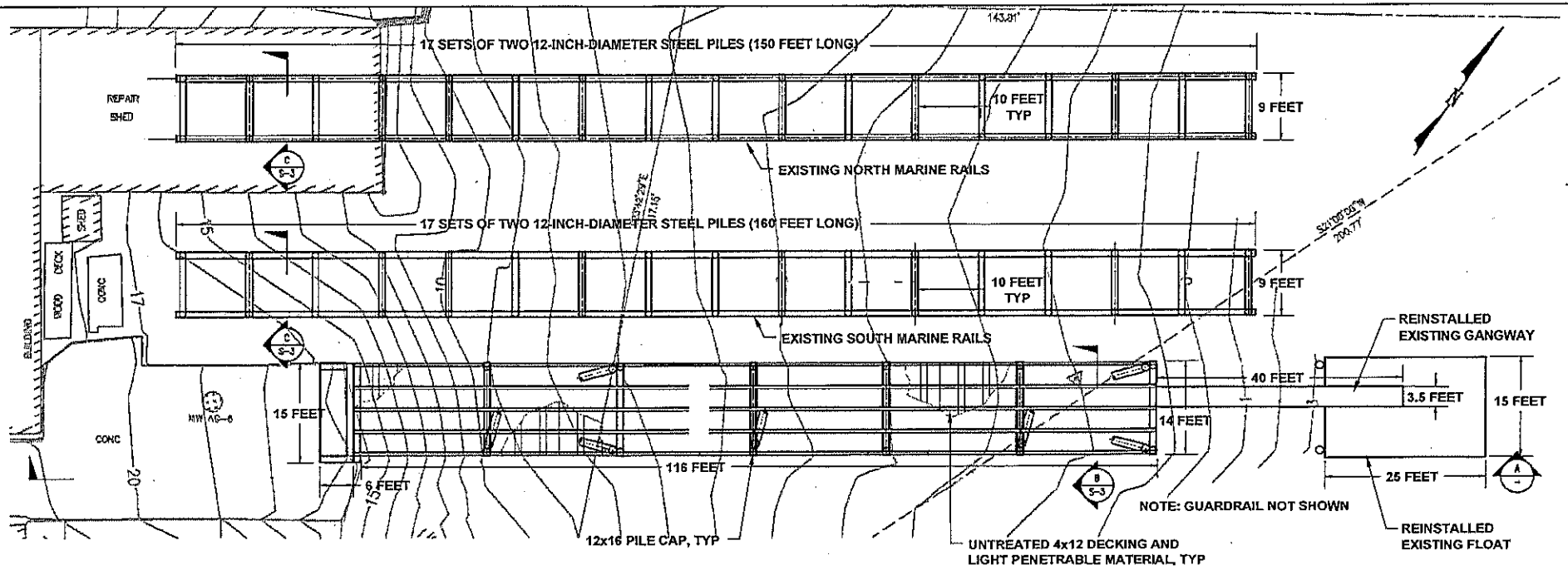
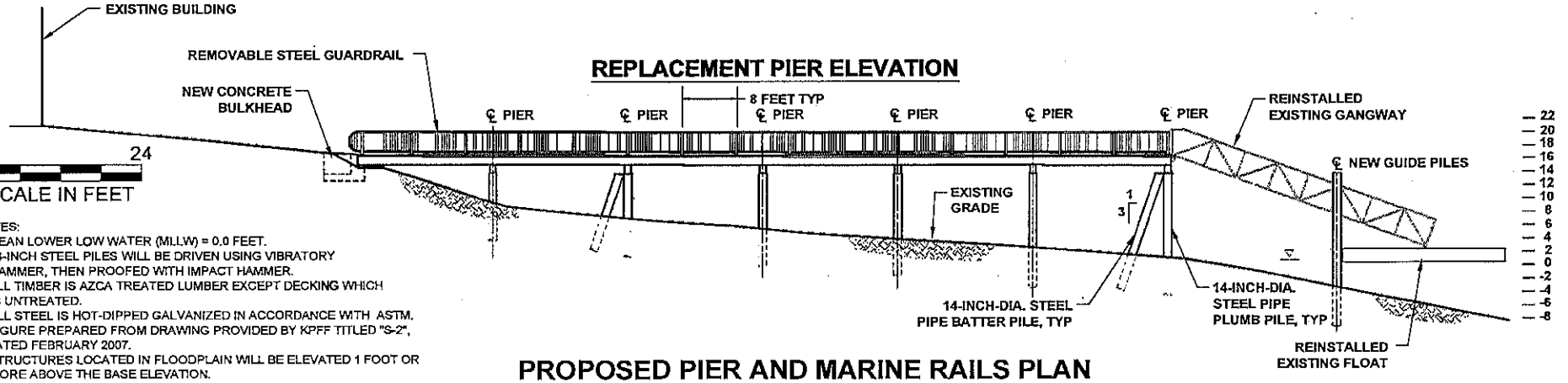
NEAR: GIG HARBOR
COUNTY OF: PIERCE
STATE: WASHINGTON

DATE: MAY 2007



REPLACEMENT PIER & MARINE RAIL PLAN



REPLACEMENT PIER ELEVATION

0 24
SCALE IN FEET

NOTES:
1. MEAN LOWER LOW WATER (MLLW) = 0.0 FEET.
2. 14-INCH STEEL PILES WILL BE DRIVEN USING VIBRATORY HAMMER, THEN PROOFED WITH IMPACT HAMMER.
3. ALL TIMBER IS AZCA TREATED LUMBER EXCEPT DECKING WHICH IS UNTREATED.
4. ALL STEEL IS HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM.
5. FIGURE PREPARED FROM DRAWING PROVIDED BY KPFF TITLED "S-2", DATED FEBRUARY 2007.
6. STRUCTURES LOCATED IN FLOODPLAIN WILL BE ELEVATED 1 FOOT OR MORE ABOVE THE BASE ELEVATION.

PROPOSED PIER AND MARINE RAILS PLAN

PURPOSE: SUPPORT FUTURE PARK DEVELOPMENT AND PUBLIC USE THROUGH CLEANUP OF CONTAMINATED SEDIMENTS AND SITE IMPROVEMENTS

DATUM: LAT 47°20'03.79" LONG 122°35'17.43"
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S5 T21N R2E

ADJACENT PROPERTY OWNERS:
FAIRWAY HOLDINGS LLC AND STEVE NIKOLICH

NAME: EDDON BOATYARD SEDIMENT CLEANUP PROJECT

REFERENCE #: NWS-2007-785-SO

SITE LOCATION ADDRESS:
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GIG HARBOR, WASHINGTON 98335

PROPOSED: DREDGE, BACKFILL, & CAP; REMOVE STRUCTURES; INSTALL NEW PIER & MARINE RAILS; REGRADE AND HYDROSEED

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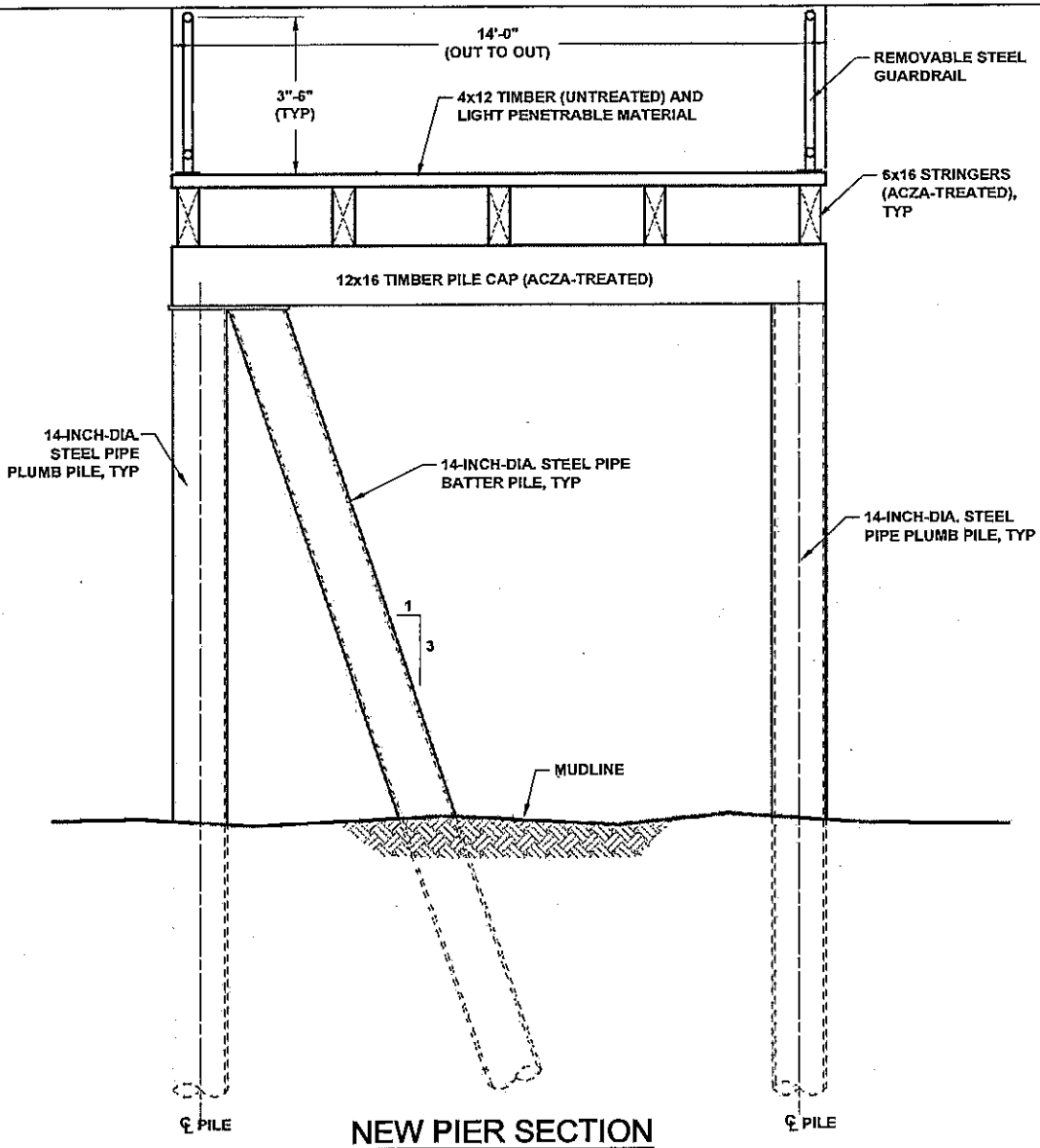
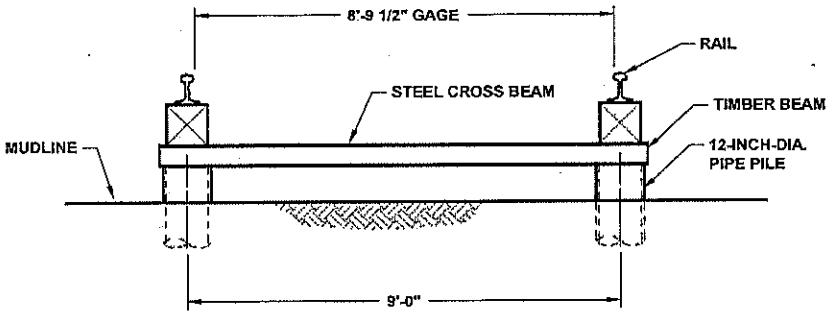
NEAR: GIG HARBOR
COUNTY OF: PIERCE
STATE: WASHINGTON

DATE: MAY 2007



NEW PIER SECTION



NEW NORTH & SOUTH BOAT MARINE RAILS

0 4
SCALE IN FEET

NOTES:
1. STRUCTURES LOCATED IN FLOODPLAIN WILL BE ELEVATED 1 FOOT OR MORE ABOVE THE BASE ELEVATION.
2. FIGURE PREPARED FROM DRAWING PROVIDED BY KPFF TITLED "S-2", DATED FEBRUARY 2007.

PROPOSED PIER SECTIONS AND DETAILS

PURPOSE: SUPPORT FUTURE PARK DEVELOPMENT AND PUBLIC USE THROUGH CLEANUP OF CONTAMINATED SEDIMENTS AND SITE IMPROVEMENTS

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S5 T21N R2E

ADJACENT PROPERTY OWNERS:
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NAME: EDDON BOATYARD SEDIMENT CLEANUP PROJECT

REFERENCE #: NWS-2007-785-50

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GIG HARBOR, WASHINGTON 98335

PROPOSED: DREDGE, BACKFILL, & CAP; REMOVE STRUCTURES; INSTALL NEW PIER & MARINE RAILS; REGRADE AND HYDROSEED

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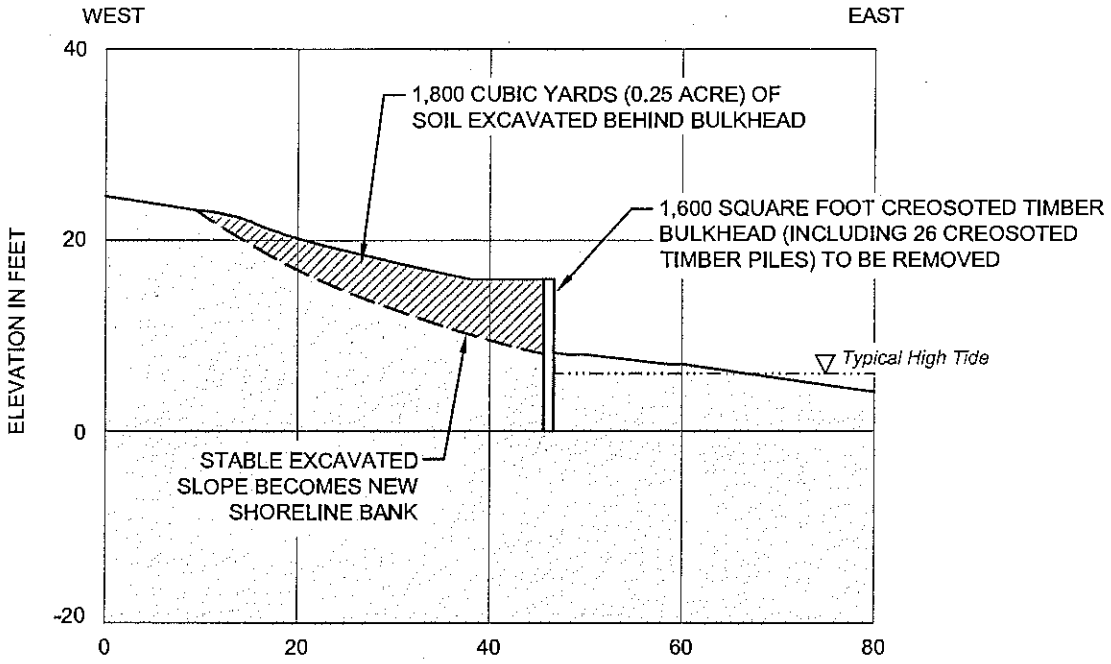
NEAR: GIG HARBOR
COUNTY OF: PIERCE
STATE: WASHINGTON

DATE: MAY 2007



CROSS SECTION C-C'
LOOKING NORTH

0 20
SCALE IN FEET

CREOSOTE-TREATED BULKHEAD CROSS-SECTION

PURPOSE: SUPPORT FUTURE PARK DEVELOPMENT AND PUBLIC USE THROUGH CLEANUP OF CONTAMINATED SEDIMENTS AND SITE IMPROVEMENTS

DATUM: LAT 47°20'03.79" LONG 122°35'17.43"
MLLW = 0.0' – N.05,
S5 T21N R2E

ADJACENT PROPERTY OWNERS:
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NAME: EDDON BOATYARD SEDIMENT CLEANUP PROJECT

REFERENCE #: NWS-2007-785-SO

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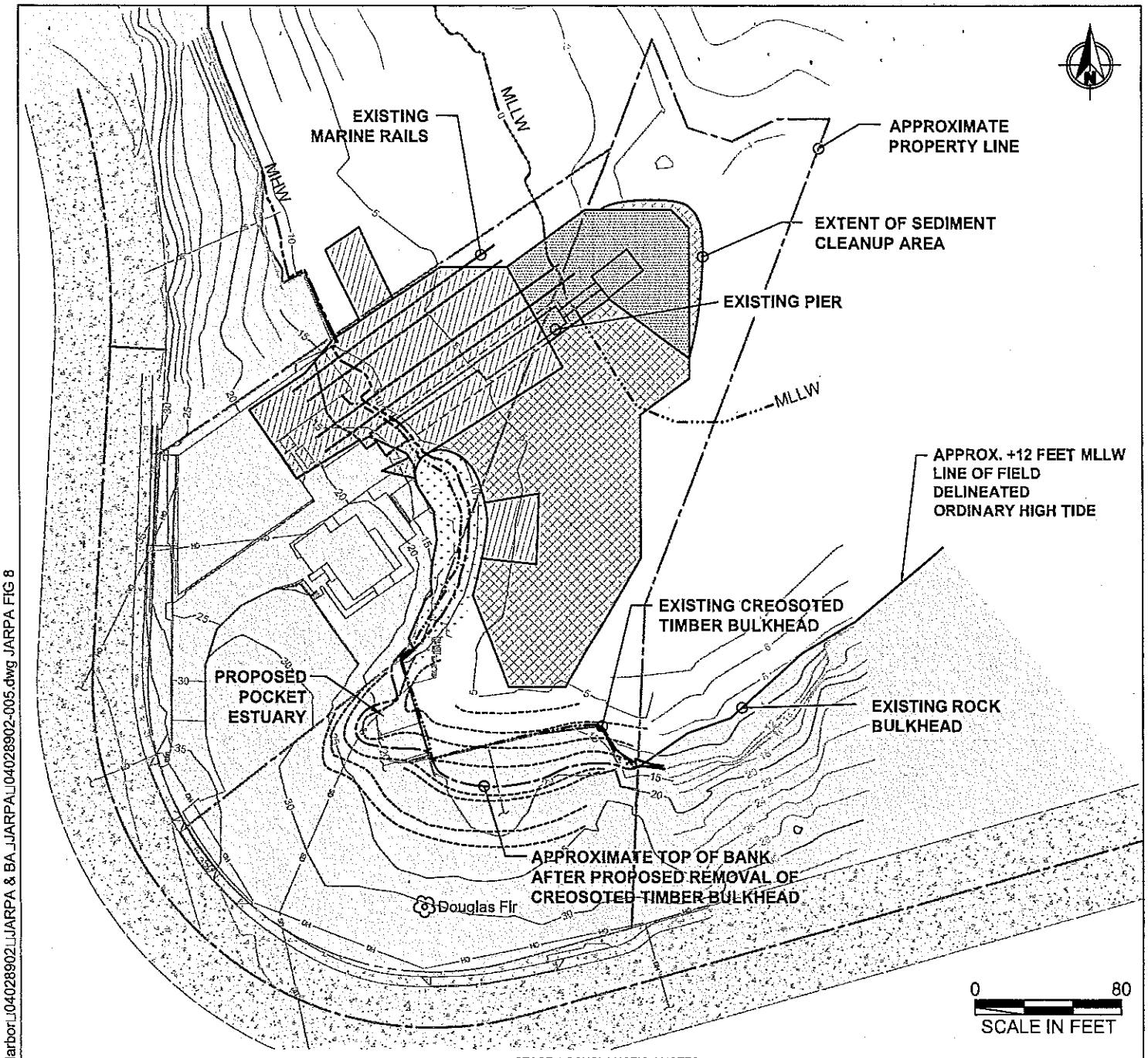
NEAR: GIG HARBOR
COUNTY OF: PIERCE
STATE: WASHINGTON

DATE: MAY 2007



PARCEL BOUNDARY

CONTOUR IN FEET (APPROXIMATE)

EXISTING SALT MARSH VEGETATION (CAT. II ESTUARINE WETLAND)

HISTORICAL FOOTPRINT OF PIER

DREDGE AND BACKFILL TO ORIGINAL GRADE

DREDGE WITHOUT BACKFILL TO ORIGINAL GRADE

SEDIMENT ISOLATION CAP

STAGE 1 CONSTRUCTION NOTES:

1. REMOVE 40-FOOT-LONG BY 3.5-FOOT-WIDE GANGWAY AND PLACE ON THE 25-FOOT-LONG BY 15-FOOT-WIDE FLOATING DOCK. REMOVE TWO CREOSOTE-TREATED GUIDE PILES. THE FLOATING DOCK WILL BE TOWED TO A TEMPORARY OFF-SITE STORAGE AREA WITHIN THE CITY OF GIG HARBOR.
2. DEMOLISH 1,600 SQUARE FOOT PIER AND REMOVE 23 CREOSOTE-TREATED PILES.
3. REMOVE WOOD SUPPORT STRUCTURE ON THE LANDWARD END OF THE PIER.
4. REMOVE TWO SETS OF MARINE RAILS. THIS INCLUDES REMOVAL OF 31 CREOSOTE-TREATED WOOD CROSS-SECTIONS AND 62 CREOSOTE-TREATED PILES.
5. REMOVE APPROXIMATELY 2,000 CY (IN SITU VOLUME) OF SILTY, SANDY SEDIMENT AND DISPOSE OF AT AN APPROVED OFF-SITE UPLAND DISPOSAL FACILITY.
6. WITH THE EXCEPTION OF ONE AREA WHERE DREDGING HAS OCCURRED HISTORICALLY, BACKFILL DREDGED AREAS WITH CLEAN SAND TO ORIGINAL GRADE.
7. COVER AND CONTAIN SEDIMENTS IN NON-DREDGED AREAS WITH AN ENGINEERED CAP.
8. ALL DREDGED AND CAPPED AREAS WILL RECEIVE A FINAL LAYER OF HABITAT MATERIAL TO CREATE A NEW SUBSTRATE THAT CLOSELY MATCHES EXISTING CONDITIONS AND ENHANCES HABITAT VALUE.
9. IF FUNDING IS AVAILABLE, A 1,600 SQUARE-FOOT CREOSOTE-TREATED BULKHEAD, WHICH INCLUDES 26 CREOSOTE-TREATED PILES, WILL BE REMOVED. THIS WILL REQUIRE THAT APPROXIMATELY 1,600 CY OF SOIL BE REMOVED FROM A 0.25-ACRE AREA FROM BEHIND THE BULKHEAD TO CREATE A STABLE SLOPE. THE REMOVAL OF THE BULKHEAD WILL ALSO INCREASE UPPER INTERTIDAL ACREAGE AND FACILITATE THE CREATION OF A POCKET ESTUARY. THE NEW SHORELINE BANK WILL RECEIVE HABITAT MATERIAL AND WILL BE HYDROSEEDED.

STAGE I CONSTRUCTION ELEMENTS

PURPOSE: SUPPORT FUTURE PARK DEVELOPMENT AND PUBLIC USE THROUGH CLEANUP OF CONTAMINATED SEDIMENTS AND SITE IMPROVEMENTS

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S5 T21N R2E

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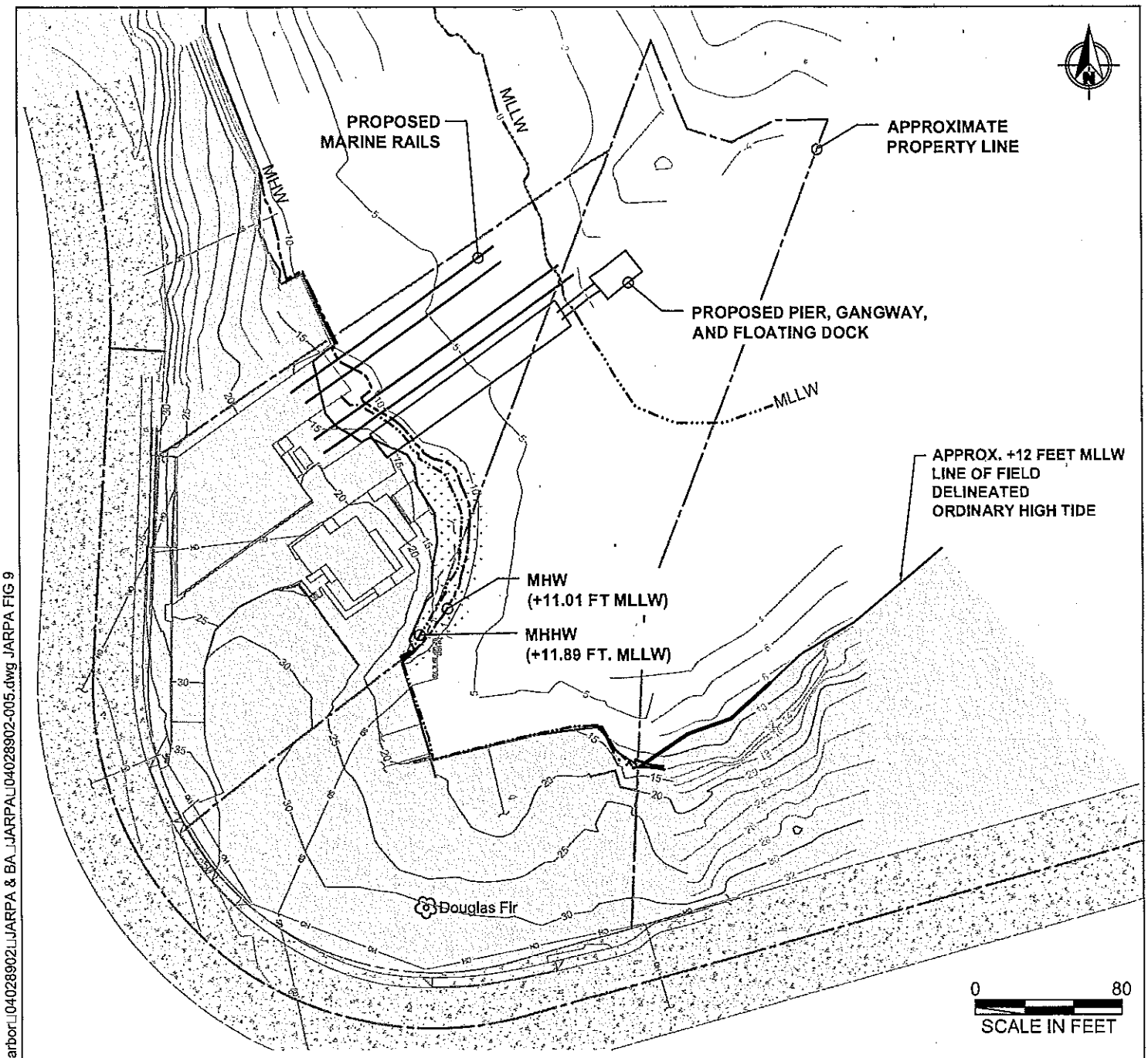
STATE: WASHINGTON

DATE: JUNE 2007 SHEET: 8 OF 10

K:\Jobs_040289-Harbor Cove_Gig Harbor\040289021JARPA & BA_JARPA\040289021-005.dwg JARPA FIG 8
Jul 13, 2007 4:27pm heriksen



PARCEL BOUNDARY

CONTOUR IN FEET (APPROXIMATE)

EXISTING SALT MARSH VEGETATION (CAT. II ESTUARINE WETLAND)

STAGE 2 CONSTRUCTION NOTES:

1. REPLACE WOOD SUPPORT STRUCTURE WITH 6-FOOT-LONG BY 15-FOOT-WIDE CONCRETE SUPPORT STRUCTURE AT THE LANDWARD END OF THE PIER.
2. REBUILD THE PIER. THE REBUILT PIER WILL INCLUDE THREE MAIN COMPONENTS, EACH OCCUPYING A FOOTPRINT EQUIVALENT TO THAT OF THE REMOVED STRUCTURES: A 110-FOOT-LONG BY 14-FOOT-WIDE PIER, THE REINSTALLED 40-FOOT-LONG BY 3.5-FOOT-WIDE GANGWAY, AND THE REINSTALLED 25-FOOT-LONG BY 15-FOOT-WIDE FLOATING DOCK. ADDITIONAL STRUCTURES TO BE INSTALLED INCLUDE 14 14-INCH-DIAMETER STEEL PLUMB PILES AND SEVEN 14-INCH-DIAMETER STEEL BATTER PILES, ACZA-TREATED TIMBER PILE CAPS AND FRAMING, COMBINATION OF UNTREATED TIMBER DECKING AND MATERIAL THAT ALLOWS LIGHT PENETRATION, AND REMOVABLE GUARDRAILS.
3. REBUILD THE MARINE RAILS. THE TWO PROPOSED SETS OF MARINE RAILS WILL BE CONSTRUCTED OF 68 12-INCH-DIAMETER STEEL PILES, STEEL RAILS, STEEL BENTS, STEEL CROSS-BEAMS, AND ACZA-TREATED TIMBERS. EACH MARINE RAIL WILL BE APPROXIMATELY 160 FEET IN LENGTH.

STAGE 2 CONSTRUCTION ELEMENTS

PURPOSE: SUPPORT FUTURE PARK DEVELOPMENT AND PUBLIC USE THROUGH CLEANUP OF CONTAMINATED SEDIMENTS AND SITE IMPROVEMENTS

DATUM: LAT 47°20'03.79" LONG 122°35'17.43"
MLLW = 0.0' - N.O.S.
S5 T21N R2E

ADJACENT PROPERTY OWNERS:
FAIRWAY HOLDINGS LLC AND STEVE NIKOLICH

NAME: EDDON BOATYARD SEDIMENT CLEANUP PROJECT

REFERENCE #:
NWS-2007-785-SO

SITE LOCATION ADDRESS:
3711 AND 3805 HARBORVIEW DRIVE
GIG HARBOR, WASHINGTON 98335

PROPOSED: DREDGE, BACKFILL, & CAP; REMOVE STRUCTURES; INSTALL NEW PIER & MARINE RAILS; REGRADE & HYDROSEED

IN: PUGET SOUND
NEAR: GIG HARBOR
COUNTY OF: PIERCE
STATE: WASHINGTON

DATE: JUNE 2007 SHEET: 9 OF 10

Jul 05, 2007 11:32am heriksen K:\Jobs_040289-Harbor Cove_Gig Harbor\040289002\JARPA & BA_JARPA\040289002-005.dwg JARPA FIG 9

STRUCTURE	GROUND ELEVATION(S) OF INSTALLED COMPONENTS	STRUCTURAL COMPONENTS REMOVED	STRUCTURAL COMPONENTS INSTALLED
CONCRETE SUPPORT STRUCTURE	+16 FEET MLLW	WOOD SUPPORT STRUCTURE	REPLACEMENT CONCRETE SUPPORT STRUCTURE IS 6 FEET LONG BY 15 FEET WIDE
CREOSOTE-TREATED TIMBER BULKHEAD (IF FUNDED, THIS STRUCTURE WILL BE REMOVED)	+12 FEET MLLW	1,600 SQUARE FOOT CREOSOTE-TREATED BULKHEAD AND 26 CREOSOTE-TREATED PILES	NO STRUCTURES INSTALLED
MARINE RAILS	+16 FEET MLLW TO -2 FEET MLLW	THE NORTH BOAT LIFT IS CONSTRUCTED OF STEEL RAILS SUPPORTED BY 14 CREOSOTE-TREATED WOOD CROSS SECTIONS. THE SOUTH BOAT LIFT IS CONSTRUCTED OF STEEL RAILS ON CREOSOTE-TREATED TIMBERS SUPPORTED BY 17 CREOSOTE-TREATED CROSS SECTIONS. THE CROSS SECTIONS OF BOTH BOATS LIFTS ARE SUPPORTED BY 62 CREOSOTE-TREATED PILES (TWO PILES AND BETWEEN O FEET MLLW AND -2 FEET MLLW)	68 12-INCH-DIAMETER STEEL PILES AND STEEL RAILS, BENTS, AND CROSS BEAMS (8 PILES WILL BE BETWEEN 0 FEET MLLW AND -2 FEET MLLW)
PIER	+17 FEET MLLW TO +1 FEET MLLW	23 CREOSOTE-TREATED PILES, TIMBER DECKING, AND PILE CAPS	14 14-INCH-DIAMETER STEEL PLUMB AND 7 14-INCH-DIAMETER STEEL BATTER PILES, ACZA-TREATED TIMBER PILE CAPS AND FRAMING, COMBINATION OF UNTREATED TIMBER DECKING AND MATERIAL THAT ALLOWS LIGHT PENETRATION, AND REMOVABLE GUARD RAILS
GANGWAY	+1 FEET MLLW TO FLOATING DOLPHIN	40-FOOT-LONG BY 3.5-FOOT-WIDE GANGWAY	EXISTING STRUCTURE RE-INSTALLED WITHIN SAME FOOTPRINT
FLOATING DOLPHIN	+2 FEET MLLW TO APPROXIMATELY -5 FEET MLLW	25-FOOT-LONG BY 15-FOOT-WIDE FLOATING DOCK, TWO CREOSOTE-TREATED PILES	EXISTING STRUCTURE RE-INSTALLED WITHIN SAME FOOTPRINT, TWO 14-INCH-DIAMETER STEEL GUIDE PILES
TOTAL PILES BELOW MLLW (0 FEET MLLW TO -4 FEET MLLW)		*FOUR CREOSOTE-TREATED PILES*	*EIGHT 12-INCH-DIAMETER STEEL PILES AND TWO 14-INCH-DIAMETER STEEL GUIDE PILES*
TOTAL PILES ABOVE MLLW (0 FEET MLLW TO +16.5 FEET MLLW)		*83 CREOSOTE-TREATED PILES*[1]	*60 12-INCH-DIAMETER STEEL PILES, 14 14-INCH-DIAMETER STEEL PLUMB PILES, AND 7 14-INCH-DIAMETER STEEL BATTER PILES*
TOTAL PILES		**87 CREOSOTE-TREATED PILES**[2]	**91 STEEL PILES**

NOTES:

1 IF THE CREOSOTE-TREATED BULKHEAD IS FUNDED, THEN A TOTAL OF 109 CREOSOTE-TREATED PILES WILL BE REMOVED BETWEEN 0 FEET MLLW AND +16.5 FEET MLLW.

2 IF THE CREOSOTE-TREATED BULKHEAD IS FUNDED, THEN A TOTAL OF 113 CREOSOTE-TREATED PILES WILL BE REMOVED.

STRUCTURES TO BE REMOVED AND INSTALLED AT THE PROPERTY

PURPOSE: SUPPORT FUTURE PARK DEVELOPMENT AND PUBLIC USE THROUGH CLEANUP OF CONTAMINATED SEDIMENTS AND SITE IMPROVEMENTS

DATUM: LAT 47°20'03.79" LONG 122°35'17.43"
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IN: PUGET SOUND
NEAR: GIG HARBOR
COUNTY OF: PIERCE
STATE: WASHINGTON

DATE: JUNE 2007 SHEET: 10 OF 10

GIG HARBOR

"THE MARITIME CITY"

COMMUNITY DEVELOPMENT DEPARTMENT

NOTICE OF RECOMMENDATION

CITY OF GIG HARBOR DESIGN REVIEW BOARD
HR 07-0001

TO: City of Gig Harbor

FROM: Lita Dawn Stanton, Historic Preservation Coordinator

DATE: July 31, 2007

RE: Application for Historic Registry requesting a Waiver of the Certificate of Appropriateness for the Eddon Boat clean-up project

---

Having reviewed the above referenced application at its meetings of July 26, 2007, the City of Gig Harbor Design Review Board (DRB) made the following findings and decisions:

Waiver of Certificate of Appropriateness
The City of Gig Harbor requested a Waiver of Certificate of Appropriateness for the demolition of portions of the Eddon Boat dock. (GHMC 17.97.050, (C) 5. Demolition)

Findings: As part of the Eddon Boat Park clean-up plan, the Department of Ecology requires that all in-water structures at the Eddon Boatyard be removed. In order to maintain Eddon Boatyard's Historic Registry designation status, the City will preserve the float and ramp, and reconstruct the dock and marine ways. The boat building and house will not be affected. The Design Review Board finds that the general preservation and reconstruction plan for the Eddon Boat dock, ramp, float and marine ways meets the intent of the historic preservation section. However, the DRB finds that their decision shall be conditioned as set forth in the following decision.

Decision: The Board hereby approves the waiver of Certificate of Appropriateness demolition conditioned upon reconstruction with the following mitigation:

1. As mitigation for the partial demolition and planned reconstruction of the historic Eddon Boatyard dock, the applicant agrees to preserve and reinstall the gangway and float after completion of the clean-up and

3510 GRANDVIEW STREET • GIG HARBOR, WASHINGTON 98335 • (253) 851-6170 • WWW.CITYOFGIGHARBOR.NET

remediation requirements. The demolished dock and railways will be reconstructed to their original state.

2. The dock will be reconstructed in the existing footprint with permitted materials.

3. Reconstruction will include measures to preserve as many remaining historic materials, features and special relationships as possible. Reconstruction will be based on the accurate duplication of historic features and elements substantiated by documentary evidence in the Eddon Boat Historic Structure Report. The reconstructed structure will re-create the original appearance in permitted materials, design, color and texture, and those areas will be clearly identified as a contemporary re-creation of the demolished portions.

4. Reconstruction shall include preservation of the historic function and operational use of the railways and winch.

5. Prior to demolition, a more detailed record with exact dimensions of the existing footprint, physical configuration and condition of the dock and marine railways must be recorded.

Darrin Filand, Chairman
Design Review Board _____ Date 8/21/2007.

cc: Planning File

CITY OF GIG HARBOR
DEPARTMENT OF COMMUNITY DEVELOPMENT

PERMIT NUMBER: EN-07-0245
EXPIRATION DATE: 01/15/2009

3510 GRANDVIEW STREET, GIG HARBOR, WASHINGTON 98335 (253) 851-6170

SITE ADDRESS:	3711 HARBORVIEW DR	**PROJECT:**	REMOVE BULKHEAD, REGRADE SOIL, HYDROSEED
APPLICANT NAME:	CITY OF GIG HARBOR	**APPLICANT PHONE:**	
OWNER NAME:	CITY OF GIG HARBOR	**OWNER PHONE:**	
ASSESSOR NUMBER:	0221053050	**OWNER ADDRESS:**	3510 GRANDVIEW ST, GIG HARBOR, WA
CONTRACTOR:		**CONTRACTOR PHONE:**	
LICENSE NUMBER:	**EXP:**	**CONTRACTOR ADDRESS:**	

VALUATION:		**Clearing and Grading**	
Grading Permit Fees	$263.50	**BUILDING CODE EDITION:**	
Grading Plan Review Fees	$63.00	**OCCUPANCY GROUP:**	
TOTAL FEES PAID:	**$326.50**	**TYPE OF CONSTRUCTION:**	
		FLOOD ZONE:	
		NUMBER OF BEDROOMS:	
		SQUARE FOOTAGE:	

Building Inspections (253) 851-6170 ext. 606 **Engineering Inspections** (253) 851-6170 ext.251

This permit shall become null and void if the building or work described and authorized by this permit has not commenced within 180 days from the date of issuance, or if this building or work is suspended or abandoned at any time after the work is commenced for a period of 180 days. Obtaining inspections at intervals not exceeding 180 days identifies that work has not been suspended. I hereby certify that have read and examined this permit and know the same to be true and correct. All provisions of laws and ordinances governing this type of work will be complied with whether specified herein or not. The granting of a permit does not presume to give authority to violate or cancel provisions of any State or local law regulating construction or the performance of the construction. If listing the owner as general contractor, I certify that I am exempt from the requirements of the State Contractor's Registration Law under Section 3, Chapter 126, Laws of 1967. All revisions to an approved plan require review and approval by the City of Gig Harbor prior to performing work. All building and tenant occupancy permits are required to pass final inspection prior to permit expiration and obtain a certificate of occupancy prior to use or occupancy.

I have read, and agree to abide by the conditions of this permit including all conditions of zoning, building codes, and State and Federal laws.

SIGNATURE OF OWNER OR AGENT: _____ **DATE:** 7/18/2008

PRINTED NAME: STEPHEN MISIUROK

AUTHORIZED SIGNATURE: _____ **DATE ISSUED:** 7/18/2008

City Official

CONDITIONS

NOTE: Approval of this application by the City of Gig Harbor pertains only to the City's regulatory jurisdiction, and thus compliance with City regulations does not necessarily ensure compliance with federal or state laws.

MINIMUM INSPECTIONS REQUIRED

Inspection requests must be received by 7:00 AM in order to be scheduled for same day inspections. To request an inspection, please call (253) 851-6170 ext. 606 and be sure to provide your permit number, name on permit, site address, contact phone number, and the type of inspection requested.

Pre-Construction Meeting
Planning Field Inspection
Erosion Control
Setback Inspection (Planning)
Grading Final
Daily Journal Entries

The above listed inspections are the minimum required for a permit of this type. Other inspections may be required for your project. Consult with your Building or Fire inspector for specific requirements.

CITY OF GIG HARBOR
DEPARTMENT OF COMMUNITY DEVELOPMENT

PERMIT NUMBER: EN-07-0245
EXPIRATION DATE: 01/15/2009

3510 GRANDVIEW STREET, GIG HARBOR, WASHINGTON 98335 (253) 851-6170

SITE ADDRESS:	3711 HARBORVIEW DR	**PROJECT:**	REMOVE BULKHEAD, REGRADE SOIL, HYDROSEED
APPLICANT NAME:	CITY OF GIG HARBOR	**APPLICANT PHONE:**	
OWNER NAME:	CITY OF GIG HARBOR	**OWNER PHONE:**	
ASSESSOR NUMBER:	0221053050	**OWNER ADDRESS:**	3510 GRANDVIEW ST, GIG HARBOR, WA
CONTRACTOR:		**CONTRACTOR PHONE:**	
LICENSE NUMBER:	**EXP:**	**CONTRACTOR ADDRESS:**	

FIXTURE LIST

Qty	Description	Qty	Description

UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
Northwest Region
7600 Sand Point Way N.E., Bldg. 1
Seattle, WA 98115

NMFS Tracking Nos.:
2007/04886

October 10, 2007

Michelle Walker
Chief, Regulatory Branch
Seattle District
United States Army Corps of Engineers
P.O. Box 3755
Seattle, WA 98124-3755

Re: Endangered Species Act Section 7 Informal Consultation and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Consultation for the Eddon Boatyard Sediment Cleanup Project in Pierce County, WA (HUC 17110019, Puget Sound, COE Ref. No. NWS-2007-32-SO)

Attention: Jim Green

Dear Ms. Walker:

This correspondence is in response to your request for consultation under the Endangered Species Act (ESA). Additionally, this letter serves to meet the requirements for consultation under the Magnuson-Stevens Fishery Conservation and Management Act (MSA).

Endangered Species Act

The National Marine Fisheries Service (NMFS) has reviewed the Biological Evaluation (BE) for the above-mentioned project and your request for consultation under the Endangered Species Act (ESA) on the effects of this project on Puget Sound (PS) Chinook salmon (*Oncorhynchus tshawytscha*) and PS steelhead (*O. mykiss*), both listed as "threatened" under the ESA. In addition, you requested concurrence with your effect determination of "may affect, but not likely to adversely affect" designated critical habitat for PS Chinook salmon. This consultation with the U.S. Army Corps of Engineers (COE) is conducted under section 7(a)(2) of the ESA, and its implementing regulations, 50 CFR Part 402.

According to the BE (received July 13, 2007), and additional information provided by the COE (received September 10 and 19, 2007) the COE proposes to issue a permit to the City of Gig Harbor to cleanup sediment at the Eddon Boatyard Site and rebuild the existing pier and marine rails as part of a public water park.

The Eddon Boatyard Sediment Cleanup Project will be constructed in two phases. The first phase, January 1, 2008 to March 15, 2008, would include demolition of the existing

pier and marine rails, removal of the gangway and floating dock, and dredging and backfilling of sediments that exceed Washington State's Sediment Management Standards. Approximately 2,000 cubic yards of sediment, silt and sand, would be dredged from the area and disposed upland. With the exception of the area at the end of the proposed to-be-rebuilt pier, dredged areas will be backfilled to original grade with clean sand. An engineered cap will be used to cover and contain sediments in non-dredged areas. All dredged and capped areas would receive a final layer of habitat material to create a new substrate that closely matches existing conditions. The proposed to-be-dredged, backfilled, and capped area will total less than one-half acre. Some low impact activities could take place during an extended work window, March 15 to March 30. These activities include placing clean sand and habitat material in dredged areas and removing a 1,600 square foot creosote-treated bulkhead, including 26 creosote-treated piles and 1,800 cubic yards of soil from a 0.25-acre area behind the bulkhead.

The second phase August 1, 2008 to March 15, 2008, would include rebuilding the pier and marine rails on their historical footprints and reinstalling the existing gangway and floating dock. The rebuilt pier, gangway and float would be in the existing footprint and would have a total length of 180 feet. Some ACZA-treated timbers would be used for structural components. Decking would be untreated wood and grating (40 percent light penetrable), piles would be steel. In total 87 creosote-treated piles would be removed from the pier and marine rails and replaced with 68 12-inch and 23 14-inch diameter steel piles. A pocket estuary is planned to be constructed as part of a public park behind the to-be-removed creosote-bulkhead.

Steel piles would be installed with a vibratory hammer and proofed with an impact hammer using a maximum of 15 blows for each pile. The applicant expects the impact proofing of 14-inch steel piles using a wood block for sound attenuation to generate 190 dB (peak decibels during each pulse) at 30 meters. NMFS calculated the distance at which the peak sound pressure level would diminish to 180 dB to be approximately 140 meters from the impact location (practical model, average between spherical and cylindrical models). Old piles would be removed using a combination of vibratory extraction, direct pulling, and clamshell removal. A silt curtain would be placed around the dredged area in a horseshoe configuration. It would encompass the entire waterward side of the work to contain suspended sediment. The curtain would be three to five feet in depth in waters between four and eight feet. Thus, there will always be a minimum of one foot open area at the bottom for organisms to escape the work area. The majority of the dredging will utilize water-based excavation equipment, such as a crane and standard clamshell bucket deployed from a barge. The nearshore areas would be dredged at low tides in the dry with excavators. The duration of the in-water dredging work would be a maximum of 20 days. This conservative estimate for the dredge time comes from requesting the contactor to not emphasize high production rates, but to minimize resuspension of sediments.

In-water work will be conducted between August 1 and March 15, to avoid migrating juveniles of PS Chinook, PS steelhead and spawning by forage fishes.

NMFS has determined that the action area is contained within Gig Harbor (extends approximately 1.25 miles to the northeast, 0.75 miles to the northwest, and 1 mile to the east and 1.25 miles to the southeast, which describes the extend of open water within the Gig Harbor basin). The action area is defined by the project element with the largest area of effect, the impact sound proofing of 14-inch steel piles using a wood block for sound attenuation. This action is expected to generate 190 dB (peak decibels during each pulse) and would diminish to ambient noise levels at approximately 18.7 miles. However the enclosed location of Gig Harbor led NMFS to limit the action area to the extent of the basin.

Species Determination

NMFS has analyzed the potential impacts of the proposed changes to the project and has determined that the effects to PS Chinook and PS steelhead would be discountable and insignificant for the following reasons:

PS Chinook fry enter riverine estuaries between mid-January and April, at sizes ranging from less than 50 mm to 90 mm later in spring. Depending on their life history type fry either migrate quickly through their natal estuary into Puget Sound or rear for extended periods. Eventually all different life history types of fry move out of the riverine estuary into Puget Sound shoreline areas. This transition into Puget Sound is thought to be size and/or temperature dependent. As the juveniles increase in size, fish occupy deeper water. The proposed work area is more than five miles from major Puget Sound rivers and estuaries that sustain Chinook. The work windows end March 15. Because of the timing and location, NMFS assumes that the likelihood of encountering fry in February and March in the action area is discountable. Second, NMFS assumes that after July 16, the time juveniles of all life history types are likely to reach the action areas, juvenile Chinook will be able to utilize deeper water and thus, construction impacts in the nearshore, mainly turbidity, would be discountable. In a small area encompassing deeper water for a maximum of 345 blows sound proofing 23 14-inch steel piles is likely to result in peak sound pressure levels exceeding the 180 dB peak decibels harm threshold. Sound pressure levels of 180 dB peak decibels are expected to extend 140 meters around the impact site. NMFS considers the likelihood of juvenile Chinook occurring in this small area during this short impact discountable. NMFS also believes adults are not likely to be exposed to construction effects, because none of the smaller rivers emptying into Gig Harbor sustain PS Chinook.

Steelhead that are likely to pass through the action area spawn in Crescent and North Creek, both tributaries to Gig Harbor. The majority of steelhead in Washington smolt after two winters in freshwater. Winter and summer steelhead of the Puget Sound area generally smolt March through June. After leaving the estuary, they are thought to quickly move off shore and migrate out of Puget Sound to the Ocean. Beach seining

results reported from Sinclair Inlet and eastern central Puget Sound found few steelhead in the nearshore (within 33 meters of the edge of the water). Thus, NMFS expects that direct effects to PS steelhead from general construction activities including turbidity are discountable, because this species is not likely to utilize the shallow nearshore habitat where the project is located. Also, NMFS considers the likelihood of encountering steelhead within a half circle of 140 meters diameter from the construction site during the few seconds of impact pile proofing discountable. The onset of the construction window is one month after the last juvenile steelhead are thought to have left the local streams and moved north toward the ocean.

The effects of the project are also likely to be insignificant because NMFS does not expect construction activities taking place after March 15, including placing sand on dredged areas, to significantly impact salmonids.

Based on this reasoning, NMFS concurs with the COE's determination that the project "may affect, but is not likely to adversely affect" PS Chinook salmon and PS steelhead.

Critical Habitat Determination

NMFS designated critical habitat for the PS Chinook salmon Evolutionarily Significant Unit (ESU) on September 2, 2005 (70 FR 52630). The Primary Constituent Element (PCE) for the critical habitat of the PS Chinook salmon in the action area is:

> Nearshore marine areas free of obstruction and excessive predation with: (i) water quality and quantity conditions and forage, including aquatic invertebrates and fishes, supporting growth and maturation; and (ii) natural cover such as submerged and overhanging large wood, aquatic vegetation, large rocks and boulders, and side channels.

NMFS has analyzed the potential impacts of the project on designated critical habitat and the PCE. Critical habitat boundaries within the action area for the proposed project include areas contiguous with the shoreline from the line of extreme high water out to a depth no greater than 98.4 feet (30 meters) relative to mean lower low water.

NMFS has determined that the effects to this PCE will be insignificant because: (1) the project will not result in a migration barrier to or through any marine habitat; (2) the project will not increase the risk of predation; (3) the project is expected to improve water quality; (4) the project will increase the forage base for juvenile or adult PS Chinook salmon with the construction of a pocket estuary; and (5) the natural structure of the nearshore habitat is expected to improve over the long term because of the construction of a pocket estuary. Based upon this reasoning, NMFS concurs with your determination that the project "may affect, but is not likely to adversely affect" the designated critical habitat of PS Chinook salmon.

This concludes informal consultation pursuant to the regulations implementing the ESA at 50 CFR 402.10. The COE must reinitiate this ESA consultation if (1) new information reveals effects of the action that may affect listed species in a way not previously considered; (2) the action is modified in a manner that causes an effect to the listed species or critical habitat that was not previously considered; or (3) a new species is listed, or critical habitat designated, that may be affected by the identified action.

Magnuson-Stevens Fishery Conservation and Management Act

Federal agencies are required, under section 305(b)(2) of the MSA and its implementing regulations (50 CFR 600 Subpart K), to consult with NMFS regarding actions that are authorized, funded, or undertaken by that agency that may adversely affect Essential Fish Habitat (EFH). The MSA (section 3) defines EFH as "those waters and substrate necessary to fish for spawning, breeding, feeding, or growth to maturity." If an action would adversely affect EFH, NMFS is required to provide the Federal action agency with EFH conservation recommendations (MSA section 305(b)(4)(A)). This consultation is based, in part, on information provided by the Federal agency and descriptions of EFH for Pacific coast groundfish, coastal pelagic species, and Pacific salmon contained in the Fishery Management Plans developed by the Pacific Fishery Management Council and approved by the Secretary of Commerce.

The project is described above and in the BE. The project areas include habitat which has been designated as EFH for various life stages for those fish listed in Table 1.

Essential Fish Habitat Conservation Recommendations: Because the conservation measures that the COE included as part of the proposed actions to address ESA concerns are also adequate to avoid, minimize, or otherwise offset potential adverse effects to the EFH of those species listed in Table 1, conservation recommendations pursuant to (MSA section 305(b)(4)(A)) are not necessary. Since NMFS is not providing conservation recommendations at this time, no 30-day response from the COE is required (MSA section 305(b)(4)(B)).

This concludes consultation under the MSA. If the proposed action is modified in a manner that may adversely affect EFH, or if new information becomes available that affects the basis for NMFS EFH conservation recommendations, the COE will need to reinitiate consultation in accordance with the implementing regulations for EFH at 50 CFR 600.920(l).

Thank you for your effort to protect ESA-listed species and EFH. If you have any questions, please contact Stephanie Ehinger of my staff at (360) 534-9341 or via email at Stephanie.Ehinger@noaa.gov.

Sincerely,

D. Robert Lohn
Regional Administrator

Enclosure

Table 1. Species of fishes with designated EFH in the project area.

Groundfish Species	Greenstriped rockfish *S. elongatus*	Rex sole *Glyptocephalus zachirus*
Spiny dogfish *Squalus acanthias*	Quillback rockfish *S. maliger*	Rock sole *Lepidopsetta bilineata*
Spotted ratfish *Hydrolagus colliei*	Redstripe rockfish *S. proriger*	Sand sole *Psettichthys melanostictus*
Big skate *Raja binoculata*	Splitnose rockfish *S. diploproa*	Starry flounder *Platichthys stellatus*
Longnose skate *Raja rhina*	Tiger rockfish *S. nigrocinctus*	
Pacific hake *Merluccius productus*	Widow rockfish *S. entomelas*	**Coastal Pelagic Species**
Kelp greenling *Hexagrammos decagrammus*	Yelloweye rockfish *S. ruberrimus*	anchovy *Engraulis mordax*
Lingcod *Ophiodon elongatus*	Yellowtail rockfish *S. flavidus*	Pacific sardine *Sardinops sagax*
Sablefish *Anoplopoma fimbria*	Cabezon *Scorpaenichthys marmoratus*	Pacific mackerel *Scomber japonicus*
Black rockfish *Sebastes melanops*	Butter sole *Isopsetta isolepis*	market squid *Loligo opalescens*
Blue rockfish *S. mystinus*	Dover sole *Microstomus pacificus*	
Bocaccio *S. paucispinis*	English sole *Parophrys vetulus*	**Pacific Salmon *Species***
Brown rockfish *S. auriculatus*	Flathead sole *Hippoglossoides elassodon*	Chinook salmon *Oncorhynchus tshawytscha*
China rockfish *S. nebulosus*	Pacific sanddab *Citharichthys sordidus*	coho salmon *O. kisutch*
Copper rockfish *S. caurinus*	Petrale sole *Eopsetta jordani*	Puget Sound pink salmon *O. gorbuscha*

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
PO Box 47600 • Olympia, WA 98504-7600 • 360-407-6000
711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

November 19, 2007

REGISTERED MAIL
RB 252 946 599 US

Mr. Steve Misiurak
City of Gig Harbor
3510 Grandview St.
Gig Harbor WA 98335

RE: Water Quality Certification - Order #5228/Corps Public Notice # NWS-2007-785-NO Contaminated sediment cleanup at the Gig Harbor former Eddon Boatyard property including dredging of approximately 2,000 cubic yards (CY), pier, piling, and marine rail removal, backfill of clean sand and rebuilding of the pier and marine rails and reinstallation of the existing gangway and floating dock in Gig Harbor, Pierce County, Washington.

Dear Mr. Misiurak:

The above-referenced public notice for proposed work in waters of the state has been reviewed in accordance with all pertinent rules and regulations. On behalf of the State of Washington, we certify that the work proposed in the public notice complies with applicable provisions of Sections 301, 302, 303, 306 and 307 of the Clean Water Act, as amended, and other appropriate requirements of State law. This certification is subject to the conditions contained in the enclosed Order and may be appealed by following the procedures described in the Order.

Pursuant to Section 307(c)(3) of the Coastal Zone Management Act of 1972 as amended, Ecology concurs with the Applicant's determination that this work is consistent with the approved Washington State Coastal Zone Management Program.

If you have any questions concerning the content of this letter, please contact Helen Pressley at (360) 407-6076.

Sincerely,

Brenden McFarland, Section Manager
Environmental Review and Transportation Section
Shorelands and Environmental Assistance Program

cc: David Templeton, Heather Page, Anchor Environmental LLC,
Jim Green, Corps
Penny Keys, Ecology

IN THE MATTER OF GRANTING A WATER QUALITY CERTIFICATION TO the City of Gig Harbor in accordance with 33 U.S.C. 1341 (FWPCA § 401), RCW 90.48.120, RCW 90.48.260 and Chapter 173-201A WAC	)	**ORDER #5228**
	)	**Corps Reference No. NWS-2007-785-NO**
	)	Contaminated sediment cleanup at the Gig Harbor former Eddon Boatyard property including dredging of approximately 2,000 cubic yards (CY), pier, piling, and marine rail removal, backfill of clean sand and rebuilding of the pier and marine rails and reinstallation of the existing gangway and floating dock in Gig Harbor, Pierce County, Washington

TO: Mr. Steve Misiurak
City of Gig Harbor
3510 Grandview St.
Gig Harbor WA 98335

On June 1, 2007 the City of Gig Harbor submitted a Joint Aquatic Resource Permit Application (JARPA) to the Department of Ecology (Ecology) requesting a Section 401 Water Quality Certification. A joint public notice regarding the request was distributed for the above-referenced project pursuant to the provisions of Chapter 173-225 WAC on July 24, 2007.

The proposed project is a voluntary cleanup of sediment from the previous Eddon Boatyard property, a former boat repair facility, to support future waterfront park development and public use. A number of construction activities will be required in order to facilitate the cleanup. The following sequence of activities will occur:

1. Remove existing gangway and float (to be reinstalled after cleanup).
2. Demolish existing marine railways and pier (including the removal of 87 creosote treated piling).
3. Dredge contaminated sediment (approximately 2,000 CY of silty sandy sediment) to a depth of 2 to 3 feet below the existing surface in specified areas, a total of 0.5 acres in area.
4. Perform sampling in the dredged areas that will not receive backfill to ensure cleanup levels are achieved.
5. Place an engineered cap consisting of a 1-foot thickness of sand covered by 6 inches of habitat material (2,500 CY) in specified areas.
6. Remove creosote-treated bulkhead (1,600 square feet including 26 creosote-treated piles) and re-grade slope.
7. Rebuild marine railway and pier (including reinstallation of the existing gangway and float).

The proposed dredging and placement of cap material will be performed using a combination of land-based and water-based equipment.

Note: The environmental cleanup of the site is being conducted in cooperation with the Washington State Department of Ecology through the Voluntary Cleanup Program pursuant to the state Model Toxics Control Act (MCTA) and Sediment Management Standards.

AUTHORITIES:

In exercising authority under 33 U.S.C. § 1341, 16 U.S.C. § 1456, RCW 90.48.120, and RCW 90.48.260, Ecology has examined this application pursuant to the following:

1. Conformance with applicable water quality-based, technology-based, and toxic or pretreatment effluent limitations as provided under 33 U.S.C. §1311, 1312, 1313, 1316, and 1317 (FWPCA § 301, 303, 306 and 307);

2. Conformance with the state water quality standards contained in Chapter 173-201A WAC and authorized by 33 U.S.C. §1313 and by Chapter 90.48 RCW, and with other applicable state laws; and

3. Conformance with the provision of using all known, available and reasonable methods to prevent and control pollution of state waters as required by RCW 90.48.010.

WATER QUALITY CERTIFICATION CONDITIONS:

Through issuance of this Order, Ecology certifies that it has reasonable assurance that the activity as proposed and conditioned will be conducted in a manner that will not violate applicable water quality standards and other appropriate requirements of state law. In view of the foregoing and in accordance with 33 U.S.C. §1341, RCW 90.48.120, RCW 90.48.260 Chapter 173-200 WAC and Chapter 173-201A WAC, water quality certification is granted to the Applicant subject to the conditions within this Order.

Certification of this proposal does not authorize the Applicant to exceed applicable state water quality standards (Chapter 173-201A WAC), ground water standards (Chapter 173-200 WAC) or sediment quality standards (Chapter 173-204 WAC). Furthermore, nothing in this certification shall absolve the Applicant from liability for contamination and any subsequent cleanup of surface waters, ground waters or sediments occurring as a result of project construction or operations.

A. General Conditions:

1. For purposes of this Order, the term "Applicant" shall mean the City of Gig Harbor and its agents, assignees and contractors.

2. For purposes of this Order, all submittals or notifications required by its conditions shall be sent to Ecology's Headquarters Office, Attn: Federal Project Coordinator, P.O. Box 47600, Olympia, WA 98504, via e-mail at hpre461@ecy.wa.gov, or (360) 407-6076. Any submittals shall reference Order No. 5228 and Corps No. NWS-2007-785-NO.

3. Work authorized by this Order is limited to the work described in the JARPA received by Ecology on June 1, 2007. The Applicant will be out of compliance with this Order and must reapply with an updated application if the information contained in the JARPA is voided by subsequent changes to the project not authorized by this Order.

4. Within 30 days of receipt of an updated JARPA Ecology will determine if the revised project requires a new water quality certification and public notice or if a modification to this Order is required.

5. This Order does not exempt, and is provisional upon compliance with other statutes and codes administered by federal, state, and local agencies.

6. Copies of this Order shall be kept at the job site and readily available for reference by Ecology personnel, the construction superintendent, construction managers and lead workers, and state and local government inspectors.

7. The Applicant shall provide access to the project site and all mitigation sites upon request by Ecology personnel for site inspections, monitoring, necessary data collection, and/or to ensure that conditions of this Order are being met.

8. Nothing in this Order waives Ecology's authority to issue additional orders if Ecology determines that further actions are necessary to implement the water quality laws of the state. Further, Ecology retains continuing jurisdiction to make modifications hereto through supplemental order, if additional impacts due to project construction or operation are identified (*e.g.*, violations of water quality standards, downstream erosion, etc.), or if additional conditions are necessary to further protect water quality.

9. The Applicant shall ensure that all appropriate project engineers and contractors at the project site have read and understand relevant conditions of this Order and all permits, approvals, and documents referenced in this Order. The Applicant shall provide Ecology a signed statement (see Attachment A for an example) from each project engineer and contractor stating that they have read and understand the conditions of this Order and the above-referenced permits, plans, documents and approvals. These statements shall be provided to Ecology before construction begins at the project.

10. This Order does not authorize direct, indirect, permanent, or temporary impacts to waters of the state or related aquatic resources, except as specifically provided for in conditions of this Order.

11. Any person who fails to comply with any provision of this Order shall be liable for a penalty of up to ten thousand dollars ($10,000.00) per violation for each day of continuing noncompliance.

12. This Order shall be rescinded if the US Army Corps of Engineers does not issue an individual Section 404 and Section 10 permit.

B. Water Quality:

1. This Order does not authorize temporary exceedances of water quality standards beyond the limits established in WAC 173-201A-210(1)(e)(i)(D). Furthermore, nothing in this certification shall absolve the Applicant from liability for contamination and any subsequent cleanup or surface waters or sediments occurring as a result of project operations.

2. Thirty (30) days prior to beginning any work at this site, a sampling and monitoring plan shall be submitted to Ecology at the above address. The plan must be reviewed and approved by Ecology

prior to the beginning of work at the site. This plan will include z sampling of the newly dredged surface, confirmatory sampling, and turbidity monitoring.

3. Turbidity shall be assessed and recorded at a minimum of every four (4) hours during periods of active in-water work during the day. Monitoring points shall be 100 feet upcurrent (representative background), 150 feet downcurrent at the point of compliance.

   If turbidity exceeds 5 NTU over background turbidity when the background turbidity is 50 NTU or less, or there is a more than a 10 percent increase in turbidity when the background turbidity is more than 50 NTU, then modify the activity causing the problem and continue to monitor every four (4) hours.

   If exceedances occur during two (2) consecutive measurements (four (4) hours apart), stop the activity causing the turbidity, notify Ecology, and do not continue work until the problem is resolved.

4. During and immediately after project completion, the Applicant or contractor shall visually monitor the area for distressed or dying fish. If distressed or dying fish are observed, in-water work shall cease immediately and the Applicant or the contractor shall contact Ecology at Ecology's Southwest Regional Spill Response Office at (360) 407-6300, a 24-hour number.

5. Dewatering water shall not be discharged into waters of the state unless it is adequately treated. The Applicant shall include a dewatering plan in the Spill Prevention and Containment Plan referred to in Section I, Condition #1 of this document.

6. Reports of any exceedances should be forwarded to the Federal Permit Coordinator. Refer to Corps #NWS-2007-785-NO, Order #5228. Please either call (360) 407-6076 or, fax to (360) 407-6902, e-mail at hpre461@ecy.wa.gov or in writing.

C. Dredging and Disposal:

1. All dredging is to be done using either a clamshell or land-based equipment. Use of any other type of dredge will require prior approval from Ecology.

2. All material removed will be transported to an approved upland disposal site.

3. Dredging operations shall be conducted in a manner that minimizes the disturbance or siltation of adjacent waters and prevents the accidental discharge of petroleum products, chemicals or other toxic or deleterious substances into waters of the State.
4. Dredged material shall not be stockpiled on a temporary or permanent basis below the ordinary high water line.
5. In-water and upland staging area erosion control BMPs (*e.g.*, filter fences, silt curtains, bubble curtains etc.) suitable to prevent exceedances of state water quality standards shall be in place before starting work material removal at the site.

6. Work shall be accomplished per the Joint Aquatic Resource Application, dated June 1, 2007, and the "*Biological Evaluation Eddon Boatyard Sediment Cleanup Project*" dated May, 2007, HPA #109279-2 dated October 10, 2007, and any addendums except as modified by this Order.

7. Any construction or staging debris shall be properly disposed of on land so that it cannot enter a waterway or cause water quality degradation to state waters.

8. Wash water containing oils, grease, or other hazardous materials resulting from wash down of equipment or working areas shall be contained for proper disposal, and shall not be discharged into state waters or storm drains.

9. During construction, reconstruction, and dredging, a containment boom (silt curtain) and shall be placed around the perimeter of the work area to capture wood debris and other materials released into the waters as a result of construction and dredging activities. Oil absorbent materials shall be deployed if any floating oil sheen is observed. The boom shall remain in place until all oily material and/or floating debris has been collected and sheens dissipate. All accumulated debris shall be collected and disposed of upland at an approved disposal site.

10. During dredging, the Applicant shall have a boat available on site at all times to retrieve debris from the water.

11. All manmade debris on the beach within the construction/dredging work area shall be removed and disposed of upland such that it does not enter waters of the state.

12. Barges or other work vessels shall be restricted to tidal elevations adequate to prevent grounding of the barge or vessel.

D. Engineered Cap:

1. The engineered sand cap for this project shall be composed of clean washed sand and topped with clean washed habitat mix in order to minimize the amount of sediment suspended during the capping process.

2. The silt curtain shall remain deployed until all visible turbidity has settled.

3. Stabilize all backfilled areas worked "in the dry" and work in stages as practicable so that sediment is not resuspended during high tide.

E. Piling Removal and Installation of New Piling:

1. All piling shall be removed using vibratory extraction or a crane barge system. In the event that pilings break off during extraction, the remaining piling may be removed by using a chain or a compressed air or hydraulically-operated saw. A silt curtain shall be used to keep sediment from entering waters of the state.

2. The work surface on the barge deck or upland shall include a containment basin for piles and any debris removed during pulling of the piling. Basins may be constructed of durable plastic sheeting

with sidewalls supported by hay bales or support structure to contain all sediment. Accumulated wastewater from any storage area shall be treated prior to discharge.

3. All piling shall be disposed of at an approved upland disposal site. If the pilings cannot be removed completely, they shall be cut off at a minimum of two (2) feet below grade.

4. The piling should be removed immediately from the water onto the barge or uplands. The pile shall not be shaken, hosed off, left hanging to drip or any other action intended to clean or remove adhering material from the pile.

5. All abandoned piling holes shall be filled and capped with substrate consistent with the existing natural surrounding substrate, sand, and/or clean 1-inch minus well-rounded gravel.

6. All new pilings shall be steel.

7. The new pilings shall be installed using a vibratory or impact hammer.

8. The Applicant shall employ a bubble curtain during installation of piles greater than 10 inches in diameter when using an impact hammer. The bubble curtain shall be deployed in a manner to ensure that bubbles completely engulf the piles during the impact driving. A block of wood at least six (6) inches thick shall be placed between the pile driver and the pile to minimize in-water noise.

F. Testing Sediment:

1. The newly exposed surfaces of dredged areas and newly created intertidal areas that are not slated to be capped with clean sand shall be sampled to ensure compliance with the Sediment Management Standards (Chapter 173-204 WAC).

2. Additionally, confirmatory sampling at the waterward edge of Contaminated Sediment Removal Area A shall be conducted to ensure the dredged area includes the extent of contamination.

3. Should testing indicate that any of this sediment is contaminated, either this material will be removed and disposed of upland in an approved location or it will be left in place and capped. A sampling plan shall also be submitted to the address indicated in Condition A2 above prior to conducting sampling. The sampling results shall be submitted prior to the completion of the project.

4. If further contamination is found, notify Ecology at the above phone number or via e-mail within 48 hours.

G. Timing Requirements:

1. All in-water work shall be completed by the work window identified in the most current HPA issued for this project. Any project change that requires a new or revised HPA should also be sent to Ecology for review.

2. This Order shall remain in effect for a period of five (5) years from date of issuance. Continuing this project beyond the five year term of this Order will require separate certifications every five years.

H. Notification Requirements:

1. **The department shall be notified at least 72 hours prior to the start of dredging as per condition A2.**
2. The Applicant shall provide notice to Ecology's 401/CZM Federal Project Manager at least three (3) days prior to the start of construction and within 14 days after completion of construction or dredging at the project site. Notification, referencing Corps Reference #NWS-2007-785-NO, Order #5228 can take place per Condition A2.3. This Order is valid until all compliance requirements in this document have been met.

NOTE: These notifications shall include the Applicant's name, project name, project location, the number of this Order, contact and contact's phone number.

I. Emergency/Contingency Measures:

1. The Applicant shall develop a spill prevention and containment plan for this project, and shall have spill cleanup materials and an emergency call list available on site.
2. Any work that is out of compliance with the provisions of this Order, or conditions causing distressed or dying fish, or any discharge of oil, fuel, or chemicals into state waters, including wetlands, or onto land with a potential for entry into state waters, is prohibited. If these occur, the Applicant or operator shall immediately take the following actions:
   a. Cease operations that are causing the compliance problem.
   b. Assess the cause of the water quality problem and take appropriate measures to correct the problem and/or prevent further environmental damage.
   c. In the event of finding distressed or dying fish, the applicant shall collect fish specimens and water samples in the affected area within the first hour of the event. These samples shall be held in refrigeration or on ice until the applicant is instructed by Ecology on what to do with them. Ecology may require analyses of these samples before allowing the work to resume.
   d. In the event of a discharge of oil, fuel, or chemicals into state waters, or onto land with a potential for entry into state waters, containment and cleanup efforts shall begin immediately and be completed as soon as possible, taking precedence over normal work. Cleanup shall include proper disposal of any spilled material and used cleanup materials.
   e. Immediately notify Ecology's 24-Hour Spill Response Team at 1-800-258-5990, **and** within 24 hours of spills or other events to Ecology's 401/CZM Federal Project Manager at (360) 407-6076.
   f. Submit a detailed written report to Ecology within five (5) days that describes the nature of the event, corrective action taken and/or planned, steps to be taken to prevent a recurrence, results of any samples taken, and any other pertinent information.

3. Fuel hoses, oil drums, oil or fuel transfer valves and fittings, etc., shall be checked regularly for drips or leaks, and shall be maintained and stored properly to prevent spills into state waters, including wetlands.
4. If at any time during work the proponent finds buried chemical containers, such as drums, or any unusual conditions indicating disposal of chemicals, the proponent shall immediately notify Ecology using the above phone numbers.

J. Appeal Process:

You have a right to appeal this Order. To appeal this you must:

- File your appeal with the Pollution Control Hearings Board within 30 days of the "date of receipt" of this document. Filing means actual receipt by the Board during regular office hours.

- Serve your appeal on the Department of Ecology within 30 days of the "date of receipt" of this document. Service may be accomplished by any of the procedures identified in WAC 371-08-305(10). "Date of receipt" is defined at RCW 43.21B.001(2).

Be sure to do the following:

- Include a copy of this document that you are appealing with your Notice of Appeal.

- Serve and file your appeal in paper form; electronic copies are not accepted.

1. To file your appeal with the Pollution Control Hearings Board

Mail appeal to:

The Pollution Control Hearings Board
PO Box 40903
Olympia, WA 98504-0903

OR

Deliver your appeal in person to:

The Pollution Control Hearings Board
4224 – 6th Ave SE Rowe Six, Bldg 2
Lacey, WA 98503

2. To serve your appeal on the Department of Ecology

Mail appeal to:

The Department of Ecology
Appeals Coordinator
P.O. Box 47608
Olympia, WA 98504-7608

OR

Deliver your appeal in person to:

The Department of Ecology
Appeals Coordinator
300 Desmond Dr SE
Lacey, WA 98503

3. And send a copy of your appeal to:

Department of Ecology
Headquarters
Attn: Helen Pressley
PO Box 47600
Olympia, WA 98504-7600

For additional information visit the Environmental Hearings Office Website: http://www.eho.wa.gov

To find laws and agency rules visit the Washington State Legislature Website: http://www1.leg.wa.gov/CodeReviser

Your appeal alone will not stay the effectiveness of this Order. Stay requests must be submitted in accordance with RCW 43.21B.320. These procedures are consistent with Ch. 43.21B RCW.

Dated Nov 19, 2007 at Lacey, Washington.

Brenden McFarland, Section Manager
Shorelands and Environmental Assistance Program
Department of Ecology
State of Washington

ATTACHMENT A

City of Gig Harbor
Eddon Boatyard to Park Conversion
Water Quality Certification Order #5228

Statement of Understanding of
Water Quality Certification Conditions

I have read and understand the conditions of Order #5228 Section 401 Water Quality Certification for the Eddon Boatyard to Park Conversion.

_____ _____
Signature Date

_____
Title

_____
Company

GIG HARBOR

"THE MARITIME CITY"

COMMUNITY DEVELOPMENT DEPARTMENT

Mitigated Determination of Nonsignificance (MDNS)
W.A.C. 197-11-970

Environmental Review Application No.: SEPA 07-0001

Parcel Numbers: 0221053074 and 0221053050

Action: Shoreline Substantial Development Permit, Design Review, Floodplain Development Permit

Proposal: The proposal is to conduct sediment cleanup within and along Gig Harbor Bay in the vicinity of an existing pier, ramp, and float, on a site that was formally a boat-building site.

Location: 3805 and 3711 Harborview Drive
Gig Harbor, WA 98335

Proponent: City of Gig Harbor
Engineer Division, Community Development Department
3510 Grandview Street
Gig Harbor, WA 98335

I. DESCRIPTION OF PROPOSAL:

This sediment cleanup effort by the City of Gig Harbor is being conducted in cooperation with the Washington State Department of Ecology through the Voluntary Cleanup Program, pursuant to the Washington State Model Toxics Control Act (MTCA) and Sediment Management Standards (SMS). The project includes dredging, capping, removal of marine structures (including creosote-treated piling) and rebuilding of marine structures. A layer of habitat material sized closely to match existing substrate conditions, placed on the engineered cap, will ultimately enhance the benthic community.

II. INCORPORATION BY REFERENCE:

The following documents contain information, studies and analysis that have been used in the review of this proposal and are hereby incorporated into this threshold determination by reference:

1. Figure 1, Eddon Boatyard Plan Set, "Vicinity Map".

3510 GRANDVIEW STREET • GIG HARBOR, WASHINGTON 98335 • (253) 851-6170 • WWW.CITYOFGIGHARBOR.NET

2. Figure 2, Eddon Boatyard Plan Set, "Site Plan".

3. Eddon Boatyard Sediment Cleanup Project, Project Description with 7 attached sheets.

4. "Attachment A: An Analysis of the Distribution and Jurisdictional Status of Waters of the United States, including Wetlands, at the Eddon Boat City Park" prepared by Eric Mendenhall, Wetland Biologist, City of Gig Harbor, May 19, 2006, received by the City of Gig Harbor on June 5, 2007.

5. "Attachment B: Aquatic Vegetation Survey Report", prepared by Anchor Environmental, L.L.C. in November 2004.

6. Attachment 1: JARPA Application, Drawings, and Attachments", received by the City of Gig Harbor on June 5, 2007.

7. "Biological Evaluation", prepared by Anchor Environmental, L.L.C., received by the City of Gig Harbor on June 5, 2007.

8. Memorandum for the Services addressed to United States Fish and Wildlife Services from the United State Army Corps of Engineers, dated June 26, 2007, transmitted with the Biological Evaluation/ Habitat Assessment and Management Plan.

9. Correspondence dated July 24, 2007, from Dave Molenaar, Washington State Department of Fish and Wildlife, to Heather Page, Anchor Environmental, regarding Biological Evaluation/ Habitat Assessment and Management Plan.

10. Memorandum regarding Wetland Buffer Qualitative Impacts, from Ali Wick and John Small of Anchor Environmental, L.L.C., dated July 25, 2007, addressed to Matthew Keough, City of Gig Harbor.

11. Correspondence dated August 3, 2007, from Wynnae Wright, Washington State Department of Natural Resources, to Matthew Keough, City of Gig Harbor, regarding Biological Evaluation/ Habitat Assessment and Management Plan

III. ANALYSIS:

This sediment cleanup project has undergone review of all impacts by the City of Gig Harbor, with consultation of numerous federal and state agencies, including the U.S. Department of Fish and Wildlife Services and the Washington State Department of Natural Resources. The environmental cleanup of the site is being conducted in cooperation with the Washington State Department of Ecology through the Voluntary Cleanup Program, pursuant to the Washington State Model Toxic Control Act. As explained below, impacts have been avoided and minimized through both physical

design and outlined construction and cleanup procedures.

The first phase of the project will include demolition of the existing pier and marine rails, removal of the gangway and floating dock, and cleanup of sediments that exceed Washington State Sediment Management Standards by dredging, backfilling, and capping. Approximately 2000 cubic yards of sandy sediment will be dredged and disposed of at an approved off-site upland disposal facility. All dredged and capped areas will receive a final layer of habitat material to create a new substrate that closely matches existing conditions but enhances habitat value. The second phase of the project will include rebuilding the pier and marine rails on their historical footprints and reinstalling the existing gangway and floating dock. Finally, if funding is available, a 1,600 square foot creosote-treated bulkhead will be removed, requiring the removal of an additional 1,800 cubic yards of soil to stabilize the slope of the resultant intertidal pocket estuary, further enhancement of the project area.

The Biological Evaluation/Habitat Assessment and Management Plan address impacts to Endangered Species Act, as well as Essential Fish Habitat and critical habitat areas. Staff accepts the stated conclusions that the project will not adversely affect habitat or species of concern. The aquatic vegetative survey report documents the absence of eelgrass while the macroalgae community was found to be sparse in this area and projected to improve with sediment cleanup. The wetland delineation and analysis indicates the presence of a Category II estuarine wetland, to be ultimately regulated by the U.S. Army Corps of Engineers. A review of the hydrology (surface and shallow subsurface intertidal drainage), hydric soils, and vegetation establishes the wetland value and functions that are protected and enhanced through this project. The code standard for what constitutes a "qualitative alteration" – thus no required mitigation plans – has been adequately documented. For example, fill materials consisting of sand and clay that were possibly part of the boat manufacturing operations – found in the wetland soils – will be removed, enhancing the function and value of this wetland and habitat area.

Appropriate mitigation measures have been included in this project to include the proper disposal of construction debris at approved upland sites and noise attenuation for construction work. City staff, to include the Engineering and Operations Division, have reviewed the project, including the SEPA checklist, and have concluded no impact of further concern.

MITIGATION OF ADVERSE IMPACTS

In addition to compliance with adopted development standards, required mitigation will include the following:

1. Waste Disposal. Construction debris and removed sediment can leach contaminates into the soil and cause additional bottom shading. The Shoreline Master Program prohibits the storage or disposal of solid waste in the shoreline environment.

Mitigation: Temporary storage of demolition debris shall be located above the OHWM. No storage is permitted on tidal areas. Additionally, removed materials shall be disposed of at a facility that has been approved to accept such materials. The owner shall contact the Tacoma-Pierce County Health Department and proceed through their Waste Disposal Authorization Process to determine acceptable waste and facilities to receive the resultant debris and sediment. The owner of the property shall provide verification to the City that the demolition debris and sediment were disposed of at an authorized facility and the correct Tacoma-Pierce County Health Department procedures were followed before the project is finalized.

2. Pile driving: Noise and vibratory effect from pile driving activities has the potential to impact aquatic species unless mitigated.

   Mitigation: Construction shall comply with Washington Department of Fish and Wildlife construction timing restrictions and sound reduction measures.

THRESHOLD DETERMINATION:

The City of Gig Harbor SEPA Responsible Official has determined that all environmental impacts associated with this proposal can be mitigated under existing City development standards and under the additional mitigation measures outlined herein. An environmental impact statement (EIS) is not required under RCW 43.21C.030(2)(c). This decision was made after review of a completed environmental checklist and other information on file with the lead agency. This information is available to the public upon request.

[x] This MDNS is issued under WAC 197-11-355. The lead agency will not act on this proposal for at least 14 days from the date below, or by the date comments are due, which ever is longer. Comments must be submitted by September 5, 2007.

Any interested person may appeal the adequacy of this final threshold determination to the City of Gig Harbor Hearing Examiner pursuant to the procedures set forth under Title 18.04 of the Gig Harbor Municipal Code if a written request for appeal is received by **September 10, 2007.** The written appeal must be submitted with a filing fee of two hundred and fifty dollars ($250).

SEPA Responsible Official: Tom Dolan
Position Title: Planning Director Phone: (253) 851-6170

Address: City of Gig Harbor
3510 Grandview Street
Gig Harbor, WA. 98335

Signature Tom Dolan Date: 8/20/07

GIG HARBOR

"THE MARITIME CITY"

COMMUNITY DEVELOPMENT DEPARTMENT

CITY OF GIG HARBOR
SHORELINE MANAGEMENT
SUBSTANTIAL DEVELOPMENT PERMIT

- X Substantial Development
- ❑ Conditional Use
- ❑ Variance

Application No: SDP 07-0008

Date Received: July 23, 2007

Date of Issuance: October 25, 2007

Pursuant to RCW 90.58, a permit is hereby granted to:

City of Gig Harbor, Washington
3510 Grandview Street
Gig Harbor, WA 98335

To undertake the following development:

Sediment cleanup project at the Gig Harbor Eddon Boatyard Site. This public project, coordinated in part by Anchor Environmental LLC, is being conducted in cooperation with the Washington State Department of Ecology through the Voluntary Cleanup Program, pursuant to the Washington State Model Toxics Control Act (MTCA) and Sediment Management Standards (SMS). The project includes dredging, capping, removal of marine structures (including creosote-treated piling) and rebuilding of marine structures. In partnership with the U.S. Environmental Protection Agency, the City has received grant funds to perform cleanup of the property, largely waterward of the Ordinary High Water mark, i.e. pier replacement, sediment cleanup, and bulkhead replacement. Once these cleanup activities are complete, monitoring will be conducted to determine the effectiveness of the cleanup actions.

Upon the following property:

a) 3805 and 3711 Harborview Drive
b) Assessors Parcels # 0221053074 & 0221053050

On the Gig Harbor Bay Shoreline and/or its associated wetlands. The project will not be within shorelines of Statewide Significance per RCW 90.58.030 and is within an Urban Environment designation.

Development pursuant to this permit shall be undertaken subject to the following terms and conditions:

1. All conditions of the City of Gig Harbor Hearing Examiner's Decision on applications SDP 07-0008 issued on September 25, 2007.
2. This permit shall expire in accordance with RCW 90.58.143(3) if construction does not commence prior to October 25, 2012.

Findings for the Approval of this Shoreline Management Permit are as follows:

This permit is granted pursuant to the Shoreline Management Act of 1971 and the City of Gig Harbor 1994 Shoreline Master Program. Nothing in this permit shall excuse the applicant from compliance with any other federal, state or local statutes, ordinances or regulations applicable to this project, but not inconsistent with the Shoreline Management Act, RCW 90.58. This permit may be rescinded pursuant to RCW 90.58.140(7) in the event the permittee fails to comply with the terms or conditions hereof.

Construction pursuant to this permit will not begin and is not authorized until twenty-one (21) days from the date of filing with the Department of Ecology as defined under RCW 90.58.140(6) or until all review proceedings initiated within twenty-one (21) days from the date of such filing have terminated, except as provided in RCW 90.58.140 (5)(a-c). The date of filing with the Department of Ecology is October 3, 2007; no additional review proceeding are required.

10/25/07 Tom Dolan

(Date) Tom Dolan
Planning Director, City of Gig Harbor

Washington Department of FISH and WILDLIFE

HYDRAULIC PROJECT APPROVAL

RCW 77.55.021 - Appeal pursuant to Chapter 34.05 RCW

Coastal
48 Devonshire Road
Montesano, WA 98563
(360) 249-4628

Issue Date: November 16, 2007
Project Expiration Date: November 15, 2009

Control Number: 109279-3
FPA/Public Notice #: N/A

PERMITTEE	AUTHORIZED AGENT OR CONTRACTOR
City of Gig Harbor	Anchor Environmental
ATTENTION: Steve Misiurak	ATTENTION: Heather Page
3510 Grandview Street	1423 Third Avenue Suite 300
Gig Harbor, WA 98335	Seattle, WA 98101
253-851-6170	206-903-3346
Fax: 253-853-7597	Fax: 206-287-9131

Project Name: Eddon Boatyard Sediment Cleanup Project

Project Description: Clean up contaminated sediments, restoration of pier and overwater structures and the removal of creosote bulkhead and restoration of shoreline.

PROVISIONS

1. a. Work below the ordinary high water line for the removal of creosote bulkhead and the 26 creosote piles, shall occur from June 15 through March 14 of any year for the protection of migrating juvenile salmonids.

b. Dredging activity, may be done from June 15 through March 30, of any year, provided excavation and capping of contaminated sediments, to the extent practicable, shall be done in the dry.

c. Any exposed contaminanted sediments shall be covered with cap material no later than March 30, of any year.

2. NOTIFICATION REQUIREMENT: The Area Habitat Biologist (AHB) listed below shall receive written notification (FAX or mail) from the person to whom this Hydraulic Project Approval (HPA) is issued (permittee) or the agent/contractor no less than three working days prior to the start of construction activities. The notification shall include the permittee's name, project location, starting date for work, and the control number for this HPA.

3. Work shall be accomplished per plans and specifications approved by the Washington Department of Fish and Wildlife entitled Eddon Boatyard Sediment Cleanup Project and dated May 2007, except as modified by this Hydraulic Project Approval. A copy of these plans shall be available on site during construction.

4. The entire existing marine railway (i.e., pilings and rail) shall be removed whole and disposed of upland.

5. The two sets of replacement rail piling and rails shall be steel and the rail supporting timber beams, ACZA type treated wood.

6. The bottom of the rail system (i.e., timber beams) shall be elevated above the bed a minimum of 12 inches.

7. The two rail sets shall not exceed 150 feet and 160 ft. in length respectively.

8. The existing 116 ft. by 14 ft. wide pier and supporting creosote pilings shall be removed and disposed of upland (this inlcudes any creosote piling associated with the float). The 25 ft. by 15 ft. float may be moved to a temporary location within Gig Harbor, but shall be moored, or stored in water at, or deeper than -10.0 ft., MLLW. The float may be re-located during Stage 2 of construction.

9. a. The 116 ft. long, by 14 ft. wide pier shall have a minimum 6 ft. wide grated strip running the centerline.

b. Grated decking may be steel, plastic, or fiberglass and shall have a minimum 60% open area. No storage is allowed on grated decking.

10. The replacement piling shall be steel with ACZA treated wood pile caps.

11. A vibratory hammer shall be used to remove creosote piles and drive steel piles. If creosote piles break off during removal then direct pulling, and or clamshell bucket shall be used to remove remnant pile. Any holes, or depressions left by clamshell bucket shall be filled with clean, washed coarse (< 1/8 in. diameter) sand.

a. If proofing plumb piles (i.e., weight bearing piles) requires driving piles to point of refusal then the following sound attenuation methods shall be required below the ordinary high water line:

i. For steel piles, 10 inches in diameter or less, a 6 inch thick wood block shall be installed between the piling and the impact hammer during pile driving operations or a bubble curtain shall be installed around the pile during pile driving operations.
ii. For steel piles greater than 10 inches in diameter, a bubble curtain shall be installed around the pile during pile driving operations.

12. If ACZA treated wood is used then it shall have undergone one or more of the following BMPs to minimize leaching of contaminants into the water or the bed (see Amendment to Best Management Practices (BMPs) for the Use of Treated Wood in Aquatic Environments, BMP Amendment #1, April 17, 2002):

a. Aqua-Ammonia Steaming Cycle (AASC);
b. Post Treatment Kiln Drying;
c. Minimum Plant Holding Time (MPHT). In addition to recommendations for the ACZA BMPS-Amendment #1 for MPHT treatment, all ACZA treated wood shall be held under cover a minimum 3 weeks at a constant temperature that meets, or exceeds 60 degrees F. If the ambient temperature is less than 60 degrees F, then ACZA treated wood must undergo the Post Treatment Kiln Drying, noted above;
d. In-Retort Ammonia Removal Plus Plant Holding Time (MPHT), as conditioned in previous section (c), but held under cover, for a minimum of 1-week, at a constant temperature that meets, or exceeds 60 degrees F.

e. All ACZA wood treatment methods shall be verified by providing a signed and dated certification from a third party.

13. All manmade debris on the beach shall be removed and disposed of upland such that it does not enter waters of the state.

14. This approval is for repair/replacement of the existing structure only and shall not result in expansion of the structure.

15. The pier, ramp, and float structure shall not exceed 180 feet in total length.

16. No portion of the dock or float system shall ground. A minimum space of 12 inches shall be maintained at all times between the bottom of the dock or float and the beach grade.

17. All piling, lumber, and other materials treated with preservatives shall be sufficiently cured to minimize leaching into the water or bed.

18. The entire creosote bulkhead shall be removed and disposed of upland. All equipment shall be confined to the uplands. A vibratory hammer shall be used to its limits to remove piling. Any piling requiring additional effort for removal shall wrap shall wrap cable around piling and pulled from the bed, and or piles broken off below the mudline shall be dug out using an excavator.

19. Use of equipment on the beach is allowed, but shall avoid impacts to pickleweed and high salt marsh grasses.

20. Excavated materials containing silt, clay, or other fine grained soil shall not be stockpiled below the ordinary high water line.

21. If stockpiling of sand, gravel, and other coarse excavated material is conducted below the ordinary high water line, it shall be placed within 10 feet of the boat ramp/marine railway footprint.

22. If sand, gravel, and other coarse excavated material is to be temporarily placed where it will come into contact with tidal waters, this material shall be covered with filter fabric and adequately secured to prevent erosion and/or potential entrainment of fish.

23. All excavated or stockpiled material shall be removed from the beach within 72 hours of boat ramp/marine railway construction. Upon removal of the excavated material, the beach shall immediately be returned to the preproject natural grade.

24. Beach area depressions created during project activities shall be reshaped to preproject beach level upon project completion.

Coastal
48 Devonshire Road
Montesano, WA 98563
(360) 249-4628

Issue Date: November 16, 2007 | Control Number: 109279-3

Project Expiration Date: November 15, 2009 | FPA/Public Notice #: N/A

PROJECT LOCATIONS

Location #1 Eddon Boatyard Cleanup Action

WORK START: November 16, 2007					WORK END: November 15, 2009	
WRIA:	Waterbody:			Tributary to:		
15.9110	Wria 15 Marine			Puget Sound		
1/4 SEC:	Section:	Township:	Range:	Latitude:	Longitude:	County:
SW 1/4	05	21 N	02 E	N 47.333353	W 122.58883	Pierce

Location #1 Driving Directions

3711 and 3805 Harborview Drive, Gig Harbor, WA

APPLY TO ALL HYDRAULIC PROJECT APPROVALS

This Hydraulic Project Approval pertains only to those requirements of the Washington State Hydraulic Code, specifically Chapter 77.55 RCW (formerly RCW 77.20). Additional authorization from other public agencies may be necessary for this project. The person(s) to whom this Hydraulic Project Approval is issued is responsible for applying for and obtaining any additional authorization from other public agencies (local, state and/or federal) that may be necessary for this project.

This Hydraulic Project Approval shall be available on the job site at all times and all its provisions followed by the person(s) to whom this Hydraulic Project Approval is issued and operator(s) performing the work.

This Hydraulic Project Approval does not authorize trespass.

The person(s) to whom this Hydraulic Project Approval is issued and operator(s) performing the work may be held liable for any loss or damage to fish life or fish habitat that results from failure to comply with the provisions of this Hydraulic Project Approval.

Failure to comply with the provisions of this Hydraulic Project Approval could result in a civil penalty of up to one hundred dollars per day and/or a gross misdemeanor charge, possibly punishable by fine and/or imprisonment.

All Hydraulic Project Approvals issued pursuant to RCW 77.55.021 (EXCEPT agricultural irrigation, stock watering or bank stabilization projects) or 77.55.141 are subject to additional restrictions, conditions or revocation if the Department of Fish and Wildlife determines that new biological or physical information indicates the need for such action. The person(s) to whom this Hydraulic Project Approval is issued has the right pursuant to Chapter 34.04 RCW to appeal such decisions. All agricultural irrigation, stock watering or bank stabilization Hydraulic Project Approvals issued pursuant to RCW 77.55.021 may be modified by the Department of Fish and Wildlife due to changed conditions after consultation with the person(s) to whom this Hydraulic Project Approval is issued: PROVIDED HOWEVER, that such modifications shall be subject to appeal to the Hydraulic Appeals Board established in RCW 77.55.301.

APPEALS INFORMATION

If you wish to appeal the issuance or denial of, or conditions provided in a Hydraulic Project Approval, there are informal and formal appeal processes available.

Issue Date: November 16, 2007 | Control Number: 109279-3

Project Expiration Date: November 15, 2009 | FPA/Public Notice #: N/A

A. INFORMAL APPEALS (WAC 220-110-340) OF DEPARTMENT ACTIONS TAKEN PURSUANT TO RCW 77.55.021, 77.55.141, 77.55.181, and 77.55.291: A person who is aggrieved or adversely affected by the following Department actions may request an informal review of:

(A) The denial or issuance of a Hydraulic Project Approval, or the conditions or provisions made part of a Hydraulic Project Approval; or

(B) An order imposing civil penalties. A request for an INFORMAL REVIEW shall be in WRITING to the Department of Fish and Wildlife HPA Appeals Coordinator, 600 Capitol Way North, Olympia, Washington 98501-1091 and shall be RECEIVED by the Department within 30 days of the denial or issuance of a Hydraulic Project Approval or receipt of an order imposing civil penalties. If agreed to by the aggrieved party, and the aggrieved party is the Hydraulic Project Approval applicant, resolution of the concerns will be facilitated through discussions with the Area Habitat Biologist and his/her supervisor. If resolution is not reached, or the aggrieved party is not the Hydraulic Project Approval applicant, the Habitat Technical Services Division Manager or his/her designee shall conduct a review and recommend a decision to the Director or his/her designee. If you are not satisfied with the results of this informal appeal, a formal appeal may be filed.

B. FORMAL APPEALS (WAC 220-110-350) OF DEPARTMENT ACTIONS TAKEN PURSUANT TO RCW 77.55.021 (EXCEPT agricultural irrigation, stock watering or bank stabilization projects) or 77.55.291:
A person who is aggrieved or adversely affected by the following Department actions may request a formal review of:

(A) The denial or issuance of a Hydraulic Project Approval, or the conditions or provisions made part of a Hydraulic Project Approval;

(B) An order imposing civil penalties; or

(C) Any other 'agency action' for which an adjudicative proceeding is required under the Administrative Procedure Act, Chapter 34.05 RCW.

A request for a FORMAL APPEAL shall be in WRITING to the Department of Fish and Wildlife HPA Appeals Coordinator, shall be plainly labeled as 'REQUEST FOR FORMAL APPEAL' and shall be RECEIVED DURING OFFICE HOURS by the Department at 600 Capitol Way North, Olympia, Washington 98501-1091, within 30-days of the Department action that is being challenged. The time period for requesting a formal appeal is suspended during consideration of a timely informal appeal. If there has been an informal appeal, the deadline for requesting a formal appeal shall be within 30-days of the date of the Department's written decision in response to the informal appeal.

C. FORMAL APPEALS OF DEPARTMENT ACTIONS TAKEN PURSUANT TO RCW 77.55.021 (agricultural irrigation, stock watering or bank stabilization only), 77.55.141, 77.55.181, or 77.55.241: A person who is aggrieved or adversely affected by the denial or issuance of a Hydraulic Project Approval, or the conditions or provisions made part of a Hydraulic Project Approval may request a formal appeal. The request for FORMAL APPEAL shall be in WRITING to the Hydraulic Appeals Board per WAC 259-04 at Environmental Hearings Office, 4224 Sixth Avenue SE, Building Two - Rowe Six, Lacey, Washington 98504; telephone 360/459-6327.

D. FORMAL APPEALS OF DEPARTMENT ACTIONS TAKEN PURSUANT TO CHAPTER 43.21L RCW: A person who is aggrieved or adversely affected by the denial or issuance of a Hydraulic Project Approval, or the conditions or provisions made part of a Hydraulic Project Approval may request a formal appeal. The FORMAL APPEAL shall be in accordance with the provisions of Chapter 43.21L RCW and Chapter 199-08 WAC. The request for FORMAL APPEAL shall be in WRITING to the Environmental and Land Use Hearings Board at Environmental Hearings Office, Environmental and Land Use Hearings Board, 4224 Sixth Avenue SE, Building Two - Rowe Six, P.O. Box 40903, Lacey, Washington 98504; telephone 360/459-6327.

E. FAILURE TO APPEAL WITHIN THE REQUIRED TIME PERIODS results in forfeiture of all appeal rights. If there is no timely request for an appeal, the department action shall be final and unappealable.

Issue Date: November 16, 2007
Project Expiration Date: November 15, 2009

Control Number: 109279-3
FPA/Public Notice #: N/A

ENFORCEMENT: Sergeant Jackson (29) P2E

Habitat Biologist David Molenaar	molendcm@dfw.wa.gov 360-249-1224		for Director WDFW

CC: Joyce Mercury, Ecology, Lacey
Matthew F. Keough, City of Gig Harbor
Wynnae Wright, WADNR
Stephanie Ehinger, NOAA Fisheries
Ron Wilcox, USACE, Seattle

APPENDIX B
PROJECT TESTING RESULTS

Analytical Resources, Incorporated
Analytical Chemists and Consultants

November 25, 2009

Joy Dunay
Anchor Environmental
1423 3rd Avenue, Suite 300
Seattle, WA 98101

RE: Eddon Boatyard
ARI Job No. PX44

Dear Joy:

Please find enclosed the original chain of custody documentation and the final data package for samples from the project referenced above.

Sample receipt and details of the analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Susan Dunnihoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures

cc: eFile PX44

SD/bc

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Chain of Custody
Documentation

prepared
for

Anchor QEA

Project: Eddon Boatyard

ARI JOB NO: PX44

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: P752	Turn-around Requested: 10 day	Page: 1 of 5	
ARI Client Company: Anchor QEA	Phone: 206-903-3320	Date: 7/10/09	Ice Present? Yes
Client Contact: Joy Dunay		No. of Coolers: 2	Cooler Temps: 5.2, 0.2
Client Project Name: Eddon Boatyard			
Client Project #:	Samplers: JD DG		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: MTCA PAH	Analysis Requested: Frozen Archive	Notes/Comments
AHA-01-1SW(0-1)	7/10/09	830	Soil	1		X	
AHA-01-1SW(1-2)		835				X	
AHA-01-1SW(2-3)		840				X	
AHA-01-1SW(0-3)		845			X		
AHA-01-1SE(0-1)		0930				X	
AHA-01-1SE(1-2)		0932				X	
AHA-01-1SE(2-3)		0935				X	
AHA-01-1SE(0-3)		0940			X		
AHA-01-1NE(0-1)		1020				X	
AHA-01-1NE(1-2)		1022				X	

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature) Joy Dunay	(Signature) D. Hayes	(Signature)	(Signature)
	Printed Name: Joy Dunay	Printed Name: D. Hayes	Printed Name:	Printed Name:
	Company: Anchor QEA	Company: ARI	Company:	Company:
	Date & Time: 7/10/09 1650	Date & Time: 7/10/09 16:55	Date & Time:	Date & Time:

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: PG52	Turn-around Requested: 10-day	Page: 2 of 5	
ARI Client Company: Anchor QEA	Phone:	Date: 7/10/09	Ice Present? Yes
Client Contact: Joy Duman		No. of Coolers: 2	Cooler Temps: 5.2, -0.2
Client Project Name: Eddon Boatyard			
Client Project #:	Samplers:		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: MTCA PAHs	Analysis Requested: Frozen Archive	Notes/Comments
AHA-01-1NE(2-3)	7/10/09	1025	Soil	1		X	
AHA-01-1NE(3-3.5)	"	1030	"	1		X	
AHA-01-1NE(0-3)	"	1027	"	1	X		
AHA-01-1NW(0-1)	"	1050	"	1		X	
AHA-01-1NW(1-2)	"	1052	"	1		X	
AHA-01-1NW(2-2.5)	"	1053	"	1		X	
AHA-01-1NW(0-2.5)	"	1058	"	1	X		
AHA-01-CEN(2.5-3)	"	1125	"	1		X	
AHA-01-CEN(3-3.5)	"	1127	"	1		X	
AHA-01-CEN(2.5-3.5)	"	1130	"	1	X		

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature) Joy Duman	(Signature) J. Hayes	(Signature)	(Signature)
	Printed Name: Joy Duman	Printed Name: J. Hayes	Printed Name:	Printed Name:
	Company: AQ	Company: ARI	Company:	Company:
	Date & Time: 7/10/09 1650	Date & Time: 7/10/09 1655	Date & Time:	Date & Time:

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: PG152	Turn-around Requested: 10-day	Page: 3 of 5	
ARI Client Company: Anchor QEA	Phone:	Date: 7/10/09	Ice Present? Yes
Client Contact: Joy Dunay		No. of Coolers: 2	Cooler Temps: 5.2, -0.2
Client Project Name: Eddon Boatyard			
Client Project #:	Samplers: JD DG		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: Frozen Archive	Notes/Comments
AHA-01-2SE (0-1)	7/10/09	1235	Soil	1	X	
AHA-01-2SE (1-2)		1238			X	
AHA-01-2SE (2-3)		1240			X	
AHA-01-2NE (0-1)		1301			X	
AHA-01-2NE (1-2)		1304			X	
AHA-01-2NE (2-3)		1305			X	
AHA-01-2NW (0-1)		1320			X	
AHA-01-2NW (1-2)		1325			X	
AHA-01-2NW (2-3)		1330			X	
AHA-01-2SW (0-1)		1350			X	

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature) Joy Dunay	(Signature) D. Hayes	(Signature)	(Signature)
	Printed Name: Joy Dunay	Printed Name: D. Hayes	Printed Name:	Printed Name:
	Company: AQ	Company: ARI	Company:	Company:
	Date & Time: 7/10/09 1650	Date & Time: 7/10/09 1655	Date & Time:	Date & Time:

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: PG52	Turn-around Requested:	Page: 4 of 5	
ARI Client Company: Anchor QEA	Phone:	Date: 7/10/09	Ice Present? Yes
Client Contact: Joy Duncan		No. of Coolers: 2	Cooler Temps: 5.2, 0.2
Client Project Name: Eddon Boatyard			
Client Project #:	Samplers: JD DG		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: Frozen Archive	Notes/Comments
AHA-01-2SW (1-2)	7/10/09	1355	Soil	1	X	
AHA-01-2SW (2-3)	"	1400	"	"	X	
AHA-01-3SE (0-1)	"	1415	"	"	X	
AHA-01-3SE (1-2)	"	1420	"	"	X	
AHA-01-3SE (2-3)	"	1422	"	"	X	
AHA-01-3NE (0-1)	"	1440	"	"	X	
AHA-01-3NE (1-2)	"	1445	"	"	X	
AHA-01-3NW (0-1)	"	1500	"	"	X	
AHA-01-3NW (1-2)	"	1505	"	"	X	
AHA-01-3NW (2-3)	"	1510	"	"	X	

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature) Joy Duncan	(Signature) J. Hayes	(Signature)	(Signature)
	Printed Name: Joy Duncan	Printed Name: J. Hayes	Printed Name:	Printed Name:
	Company: AQ	Company: ARI	Company:	Company:
	Date & Time: 7/10/09 1650	Date & Time: 7/10/09 1655	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: PG52	Turn-around Requested: 10-day	Page: 5 of 5	
ARI Client Company: Anchor QEA	Phone:	Date: 7/10/09	Ice Present? Yes
Client Contact: Joy Dunay		No. of Coolers: 2	Cooler Temps: 5.2, -0.2
Client Project Name: Eddon Boatyard			
Client Project #:	Samplers: JD DC		

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: Frozen Archive	Notes/Comments
AHA-01-3SW (0-1)	7/10/09	1520	Soil	1	X	
AHA-01-3SW (1-2)	"	1522	"	1	X	
AHA-01-3SW (2-2.5)	"	1525	"	1	X	
AHA-01-4NE (0-1)	"	1540	"	1	X	
AHA-01-4NE (1-2)	"	1545	"	1	X	
AHA-01-4NE (2-3)	"	1555	"	1	X	

Jm 7/10/09

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature) Joy Dunay	(Signature) J. Hayes	(Signature)	(Signature)
	Printed Name: Joy Dunay	Printed Name: J. Hayes	Printed Name:	Printed Name:
	Company: AQ	Company: ARI	Company:	Company:
	Date & Time: 7/10/09 1650	Date & Time: 7/10/09 1658	Date & Time:	Date & Time:

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Anchor QEA
Project Name: Eddon Boatyard
COC No(s): _____ (NA)
Delivered by: Fed-Ex UPS Courier (Hand) Delivered Other: _____
Assigned ARI Job No: PG52
Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)	5.2 -0.2	
If cooler temperature is out of compliance fill out form 00070F	Temp Gun ID#:	487405

Cooler Accepted by: JH Date: 7/10/09 Time: 1655

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ... Bubble Wrap (Wet Ice) Gel Packs (Baggies) Foam Block Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		(YES)	NO
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	NA	YES	(NO)
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO

Samples Logged by: JH Date: 7/10/09 Time: 1715

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:

Small → "sm"
Peabubbles → "pb"
Large → "lg"
Headspace → "hs"

Case Narrative

prepared
for

Anchor QEA

Project: Eddon Boatyard

ARI JOB NO: PX44

prepared
by

Analytical Resources, Inc.

Case Narrative

Client: Anchor Environmental
Project: Eddon Boatyard
ARI Job Nos. PX44

Sample receipt

Forty-six soil samples were received by Analytical Resources on July 10, 2009 at cooler temperatures of -0.2° and 5.2°C, as measured by IR thermometer, with no discrepancies in paperwork. For further details of sample receipt, please refer to the enclosed Cooler Receipt Form. Forty-one of these samples were placed in frozen archive.

As per client instruction, four samples were activated from frozen archive, and two composite samples were created. Samples AHA-01-3NW(0-1) and AHA-01-3NW(1-2) were composited to create sample **AHA-01-3NW(0-2)**. Samples AHA-01-4NE(0-1) and AHA-01-4NE(1-2) were composited to create sample **AHA-01-4NE(0-2)**. These two composite samples were then analyzed for SIM PNAs; the results of which are reported here.

Selected Semivolatiles by SW8270-SIM

All samples and associated laboratory QC were extracted and analyzed within recommended holding times.

Initial and continuing calibrations were within method requirements. Internal standard areas were within limits.

Surrogate recoveries were within control limits.

The method blank was clean at the reporting limit. The LCS percent recoveries were within control limits.

The MS/MSD had several analytes for which recoveries and RPDs were outside of control limits. No action is required for matrix QC.

LCS SOLUTIONS

11/06/2009

LABL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
1	1667-4	PCB	20	ACETONE	10/29/10
2#	1472-3	BCOC PEST	10	ACETONE	NA
3	1620-4	PEST	02/04/20	ACETONE	06/26/10
4	1667-1	LOW PEST	0.2/0.4/2	ACETONE	06/26/10
5	1580-2	EPH	1500	MECL2	01/29/10
6	1655-3	PCP	12.5/125	ACETONE	09/24/10
7	1635-1	ABN	100	ACETONE	02/01/10
8	1566-1	TBT	2.5	MECL2	12/04/09
9	1567-3	PORE TBT	.125/.25	MECL2	12/04/09
10	1621-4	ABN ACID	100/200	MEOH	07/14/10
11	1642-2	TPHD	15000	ACETONE	09/07/10
12	1622-2	ABN BASE	200	ACETONE	02/05/10
13	1613-1	LOW PCB	2	ACETONE	06/08/10
14*	1547-1	LOW ABN ACID	10/20	MEOH	04/10/10
15*	1591-3	SIM PNA	15/75	MEOH	08/28/10
16	1602-3	DIOXANE	100	MEOH	03/20/10
17	1644-1	1248 PCB	10	ACETONE	09/10/10
18*	1591-4	LOW SIM PNA	1.5	ACETONE	08/28/10
19	1574-4	AK103	7500	MECL2	12/02/09
20	1572-2	PNA	100	ACETONE	12/26/09
21	1593-3	SKY/BHT	100	MEOH	03/31/10
22	1631-1	HERB	12.5/12500	MEOH	02/19/10
23*	1505-1	LW ABN BASE	20	MEOH	03/20/10
24	1613-2	LOW ABN	10	ACETONE	02/28/10
25#	1481-1	DIPHENYL	100	MEOH	NA
26*	1545-2	OP-PEST	25	MEOH	02/16/10
27	1668-3	STEROLS	200	MEOH	10/30/10
28#	1595-1	ADD. PEST	4	ACETONE	NA
29#	1496-3	DECANES	100	MEOH	NA
30	1620-1	EDB/DBCP	0.2	MEOH	06/22/10
31	1596-1	TERPINEOL	100	MEOH	04/03/10

LCS SOLUTIONS

11/06/2009

32	1619-3	GUAIACOL	50-200	ACETONE	04/30/10
33	1639-3	RETENE	100	MEOH	09/03/10
34	1633-1	CONGENERS	2.5	ACETONE	08/11/10
35	1601-2	ALKYL PNA A	10	MEOH	04/03/10
36	1601-3	ALKYL PNA B	10	MEOH	05/13/10
50	1617-1	FULL RESIN	250	ACETONE	06/17/10
51	1611-3	DDTS	2.5	ACETONE	06/04/10
52	1613-5	1232 PCB	20	ACETONE	06/16/10
	*=REVERIFIED SOLUTION				
	#=PROJECT SPECIFIC SOLUTION				

SURR SOLUTIONS

11/06/2009

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
A	1662-3	ABN	100/150	MEOH	10/08/10
B	1633-3	SIM PNA	15/75	MEOH	08/12/10
C*	1559-1	SIM ABN	25/37.5	MEOH	03/13/10
D	1635-2	LOW PCB	0.2	ACETONE	05/29/10
E	1661-2	HERB	62.5	MEOH	10/02/10
F	1574-3	PCP	12.5	ACETONE	01/06/10
G*	1534-1	1,4DIOXANE	100	MEOH	02/20/10
H	1594-1	OP-PEST	25	MEOH	04/01/10
I	1634-1	LOW S. PNA	1.5	MEOH	08/12/10
J	1566-5	TBT-PORE	0.125	MECL2	12/04/09
K	1612-1	MED PCB	20	ACETONE	05/29/10
L	1584-4	TBT	2.5	MECL2	12/04/09
M	1578-1	EPH	1500	MECL2	12/09/09
N	1612-2	PCB	2	ACETONE	05/29/10
O	1647-2	TPH	450	MECL2	07/02/10
P	1666-3	HCID	2250	MECL2	05/06/10
Q	1620-2	EDB	1	MEOH	06/22/10
R	1615-1	RESIN ACID	250	ACETONE	06/17/10
S	1568-5	PBDE	.25	MEOH	12/11/09
T	1601-1	ALKYL PNA	10	MEOH	11/26/09
U	1633-1	CONGENER	2.5	ACETONE	08/11/10
V					
*reverified solution					
X					
Y					
Z					

Analytical Resources,Incorporated
Analytical Chemists and Consultants

Spike Recovery Control Limits for Polycyclic Aromatic Hydrocarbons Selected Ion Monitoring (SIM) EPA Method SW-846-8270D-Modified [1,7]

Effective 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip

Sample Matrix	Water		Soil	
Sample Volume / Final Volume	**500 mL to 0.5 mL**		**7.5 g / 0.5 mL**	
	Control Limits	**ME Limits [2]**	**Control Limits**	**ME Limits [2]**
LCS Spike Recovery [6]				
Napthalene	39 - **100**	30 - 102	37 - **100**	27 - 107
2-Methylnapthalene	39 - **100**	31 - **100**	37 - **100**	28 - **100**
1-Methylnapthalene	30 - 160 [3]	30 - 160 [3]	30 - 160 [3]	30 - 160 [3]
Acenaphthylene	37 - 100	27 - 111	35 - **100**	26 - 102
Acenapthene	42 - **100**	33 - 107	39 - **100**	31 - **100**
Dibenzofuran	46 - **100**	38 - 101	39 - **100**	31 - **100**
Fluorene	49 - 101	40 - 110	42 - **100**	33 - 106
Phenanthrene	55 - 101	47 - 109	47 - **100**	38 - 108
Anthracene	47 - 102	38 - 111	41 - 106	30 - 117
Fluoranthene	60 - 106	52 - 114	52 - 109	43 - 119
Pyrene	55 - 110	46 - 119	47 - 111	36 - 122
Benz(a)anthracene	56 - 104	48 - 112	47 - 114	36 - 125
Chrysene	58 - 104	50 - 112	51 - 106	42 - 115
Benzo(b)fluoranthene	51 - 126	39 - 139	52 - 114	42 - 124
Benzo(k)fluoranthene	55 - 123	44 - 134	48 - 117	37 - 129
Benzo(a)pyrene	32 - 110	19 - 123	44 - 111	33 - 122
Indeno(1,2,3-cd)pyrene	50 - 114	39 - 125	41 - 114	29 - 126
Dibenzo(a,h)anthracene	42 - 121	29 - 134	42 - 116	30 - 128
Benzo(g,h,i)perylene	50 - 113	40 - 124	37 - 115	27 - 107
MB / LCS Surrogate Recovery				
d10-2-Methylnaphthalene	36 - 101	(4)	35 - **100**	(4)
d14-Dibenzo(a,h)anthracene	42 - 121	(4)	37 - 120	(4)
Sample Surrogate Recovery				
d10-2-Methylnaphthalene	30 - 106	(4)	34 - **100**	(4)
d14-Dibenzo(a,h)anthracene	**10** - 130	(4)	**10** - 117	(4)

(1) ARI's Control limits calculated using all available spike recovery data from 1/1/08 through 12/31/08.
(2) **ME** = A **marginal exceedance** defined in the NELAC Standard [5] as beyond the LCS-CL but still within the ME limits. ME limits are between 3 and 4 standard deviations around the mean. A maximum of one marginal exceedance is acceptable. Two or more marginal exceedances require corrective action.
(3) 30 – 160 are default, advisory control limits used when there is insufficient data to calculate historic control limits. **DO NOT** use these limits as the sole reason to reject the data from a batch of analyses.
(4) Marginal Exceedances not allowed for surrogate standards.
(5) **2003 NELAC Standard (EPA/600/R-04/003), July 2003**, Chapter 5, pages 251-252.
(6) Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.
(7) Highlighted control limits (**bold font**) adjusted to demonstrate that ARI does not use control limits < 10 for the lower limit or < 100 for the upper limit.

Data Summary Package

prepared
for

Anchor QEA

Project: Eddon Boatyard

ARI JOB NO: PX44

prepared
by

Analytical Resources, Inc.

SIM SEMIVOLATILE ANALYSIS

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: AHA-01-3NW(0-2)
SAMPLE

Lab Sample ID: PX44A
LIMS ID: 09-28003
Matrix: Soil
Data Release Authorized:
Reported: 11/20/09

QC Report No: PX44-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 11/16/09
Date Analyzed: 11/18/09 15:07
Instrument/Analyst: NT2/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.8 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 10.7%

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**4.6**	**15**
91-57-6	**2-Methylnaphthalene**	**4.6**	**6.0**
90-12-0	1-Methylnaphthalene	4.6	< 4.6 U
208-96-8	**Acenaphthylene**	**4.6**	**76**
83-32-9	Acenaphthene	4.6	< 4.6 U
86-73-7	**Fluorene**	**4.6**	**7.9**
85-01-8	**Phenanthrene**	**4.6**	**150**
120-12-7	**Anthracene**	**4.6**	**38**
206-44-0	**Fluoranthene**	**4.6**	**460**
129-00-0	**Pyrene**	**4.6**	**660 E**
56-55-3	**Benzo(a)anthracene**	**4.6**	**330**
218-01-9	**Chrysene**	**4.6**	**380**
205-99-2	**Benzo(b)fluoranthene**	**4.6**	**240**
207-08-9	**Benzo(k)fluoranthene**	**4.6**	**240**
50-32-8	**Benzo(a)pyrene**	**4.6**	**440**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.6**	**180**
53-70-3	**Dibenz(a,h)anthracene**	**4.6**	**76**
191-24-2	**Benzo(g,h,i)perylene**	**4.6**	**180**
132-64-9	Dibenzofuran	4.6	< 4.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	65.0%
d14-Dibenzo(a,h)anthracen	62.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
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Sample ID: AHA-01-3NW(0-2)
DILUTION

Lab Sample ID: PX44A
LIMS ID: 09-28003
Matrix: Soil
Data Release Authorized:
Reported: 11/20/09

QC Report No: PX44-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 11/16/09
Date Analyzed: 11/19/09 13:49
Instrument/Analyst: NT2/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.8 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 3.00
Percent Moisture: 10.7%

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**14**	**15**
91-57-6	2-Methylnaphthalene	14	< 14 U
90-12-0	1-Methylnaphthalene	14	< 14 U
208-96-8	**Acenaphthylene**	**14**	**85**
83-32-9	Acenaphthene	14	< 14 U
86-73-7	Fluorene	14	< 14 U
85-01-8	**Phenanthrene**	**14**	**150**
120-12-7	**Anthracene**	**14**	**36**
206-44-0	**Fluoranthene**	**14**	**460**
129-00-0	**Pyrene**	**14**	**680**
56-55-3	**Benzo(a)anthracene**	**14**	**340**
218-01-9	**Chrysene**	**14**	**380**
205-99-2	**Benzo(b)fluoranthene**	**14**	**250**
207-08-9	**Benzo(k)fluoranthene**	**14**	**250**
50-32-8	**Benzo(a)pyrene**	**14**	**460**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**14**	**210**
53-70-3	**Dibenz(a,h)anthracene**	**14**	**92**
191-24-2	**Benzo(g,h,i)perylene**	**14**	**240**
132-64-9	Dibenzofuran	14	< 14 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	64.0%
d14-Dibenzo(a,h)anthracen	71.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
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Sample ID: AHA-01-4NE(0-2)
SAMPLE

Lab Sample ID: PX44B
LIMS ID: 09-28004
Matrix: Soil
Data Release Authorized:
Reported: 11/20/09

QC Report No: PX44-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 11/16/09
Date Analyzed: 11/18/09 16:18
Instrument/Analyst: NT2/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 11.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 13.4%

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	4.5	37	
91-57-6	2-Methylnaphthalene	4.5	11	
90-12-0	1-Methylnaphthalene	4.5	5.9	
208-96-8	Acenaphthylene	4.5	160	
83-32-9	Acenaphthene	4.5	4.5	
86-73-7	Fluorene	4.5	12	
85-01-8	Phenanthrene	4.5	310	
120-12-7	Anthracene	4.5	65	
206-44-0	Fluoranthene	4.5	890	E
129-00-0	Pyrene	4.5	1,100	E
56-55-3	Benzo(a)anthracene	4.5	640	E
218-01-9	Chrysene	4.5	780	E
205-99-2	Benzo(b)fluoranthene	4.5	530	E
207-08-9	Benzo(k)fluoranthene	4.5	530	E
50-32-8	Benzo(a)pyrene	4.5	880	E
193-39-5	Indeno(1,2,3-cd)pyrene	4.5	330	
53-70-3	Dibenz(a,h)anthracene	4.5	160	
191-24-2	Benzo(g,h,i)perylene	4.5	330	
132-64-9	Dibenzofuran	4.5	5.9	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	60.0%
d14-Dibenzo(a,h)anthracen	63.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
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Sample ID: AHA-01-4NE(0-2)
DILUTION

Lab Sample ID: PX44B
LIMS ID: 09-28004
Matrix: Soil
Data Release Authorized:
Reported: 11/20/09

QC Report No: PX44-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 11/16/09
Date Analyzed: 11/19/09 14:13
Instrument/Analyst: NT2/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 11.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 5.00
Percent Moisture: 13.4%

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**22**	**38**
91-57-6	2-Methylnaphthalene	22	< 22 U
90-12-0	1-Methylnaphthalene	22	< 22 U
208-96-8	**Acenaphthylene**	**22**	**160**
83-32-9	Acenaphthene	22	< 22 U
86-73-7	Fluorene	22	< 22 U
85-01-8	**Phenanthrene**	**22**	**320**
120-12-7	**Anthracene**	**22**	**56**
206-44-0	**Fluoranthene**	**22**	**870**
129-00-0	**Pyrene**	**22**	**1,200**
56-55-3	**Benzo(a)anthracene**	**22**	**630**
218-01-9	**Chrysene**	**22**	**780**
205-99-2	**Benzo(b)fluoranthene**	**22**	**530**
207-08-9	**Benzo(k)fluoranthene**	**22**	**530**
50-32-8	**Benzo(a)pyrene**	**22**	**930**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**22**	**440**
53-70-3	**Dibenz(a,h)anthracene**	**22**	**190**
191-24-2	**Benzo(g,h,i)perylene**	**22**	**510**
132-64-9	Dibenzofuran	22	< 22 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	63.3%
d14-Dibenzo(a,h)anthracen	75.0%

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: PX44-Anchor QEA
Project: Eddon Boatyard

Client ID	MNP	DBA	TOT OUT
MB-111609	70.3%	70.3%	0
LCS-111609	68.0%	76.3%	0
AHA-01-3NW(0-2)	65.0%	62.0%	0
AHA-01-3NW(0-2) DL	64.0%	71.0%	0
AHA-01-3NW(0-2) MS	69.3%	75.3%	0
AHA-01-3NW(0-2) MSD	58.3%	72.3%	0
AHA-01-4NE(0-2)	60.0%	63.0%	0
AHA-01-4NE(0-2) DL	63.3%	75.0%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(35-100)	(34-100)
(DBA) = d14-Dibenzo(a,h)anthracene	(37-120)	(10-117)

Prep Method: SW3546
Log Number Range: 09-28003 to 09-28004

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
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Sample ID: AHA-01-3NW(0-2)
MATRIX SPIKE

Lab Sample ID: PX44A
LIMS ID: 09-28003
Matrix: Soil
Data Release Authorized:
Reported: 11/20/09

QC Report No: PX44-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted MS/MSD: 11/16/09

Date Analyzed MS: 11/18/09 15:31
MSD: 11/18/09 15:55
Instrument/Analyst MS: NT2/PK
MSD: NT2/PK

Sample Amount MS: 11.0 g-dry-wt
MSD: 11.0 g-dry-wt
Final Extract Volume MS: 0.50 mL
MSD: 0.50 mL
Dilution Factor MS: 1.00
MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Naphthalene	15.3	110	136	69.6%	90.5	136	55.3%	19.5%
2-Methylnaphthalene	6.0	101	136	69.9%	83.2	136	56.8%	19.3%
1-Methylnaphthalene	< 4.6 U	100	136	73.5%	83.2	136	61.2%	18.3%
Acenaphthylene	75.9	195	136	87.6%	175	136	72.9%	10.8%
Acenaphthene	< 4.6 U	104	136	76.5%	92.3	136	67.9%	11.9%
Fluorene	7.9	133	136	92.0%	115	136	78.8%	14.5%
Phenanthrene	151	370	136	161%	305	136	113%	19.3%
Anthracene	37.5	165	136	93.8%	149	136	82.0%	10.2%
Fluoranthene	455	790 E	136	246%	657 E	136	149%	18.4%
Pyrene	657 E	956 E	136	NA	846 E	136	NA	NA
Benzo(a)anthracene	326	513 E	136	138%	496 E	136	125%	3.4%
Chrysene	377	565 E	136	138%	544 E	136	123%	3.8%
Benzo(b)fluoranthene	245	413	136	124%	381	136	100%	8.1%
Benzo(k)fluoranthene	245	413	136	124%	381	136	100%	8.1%
Benzo(a)pyrene	439	624 E	136	136%	596 E	136	115%	4.6%
Indeno(1,2,3-cd)pyrene	179	306	136	93.4%	291	136	82.4%	5.0%
Dibenz(a,h)anthracene	76.4	200	136	90.9%	188	136	82.1%	6.2%
Benzo(g,h,i)perylene	179	303	136	91.2%	284	136	77.2%	6.5%
Dibenzofuran	< 4.6 U	108	136	79.4%	99.1	136	72.9%	8.6%

Reported in µg/kg (ppb)

NA-No recovery due to high concentration of analyte in original sample, calculated negative recovery, or undetected spike.
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
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Sample ID: AHA-01-3NW(0-2)
MATRIX SPIKE

Lab Sample ID: PX44A
LIMS ID: 09-28003
Matrix: Soil
Data Release Authorized:
Reported: 11/20/09

QC Report No: PX44-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 11/16/09
Date Analyzed: 11/18/09 15:31
Instrument/Analyst: NT2/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 11.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 10.7%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.6	---
91-57-6	2-Methylnaphthalene	4.6	---
90-12-0	1-Methylnaphthalene	4.6	---
208-96-8	Acenaphthylene	4.6	---
83-32-9	Acenaphthene	4.6	---
86-73-7	Fluorene	4.6	---
85-01-8	Phenanthrene	4.6	---
120-12-7	Anthracene	4.6	---
206-44-0	Fluoranthene	4.6	---
129-00-0	Pyrene	4.6	---
56-55-3	Benzo(a)anthracene	4.6	---
218-01-9	Chrysene	4.6	---
205-99-2	Benzo(b)fluoranthene	4.6	---
207-08-9	Benzo(k)fluoranthene	4.6	---
50-32-8	Benzo(a)pyrene	4.6	---
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	---
53-70-3	Dibenz(a,h)anthracene	4.6	---
191-24-2	Benzo(g,h,i)perylene	4.6	---
132-64-9	Dibenzofuran	4.6	---

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	69.3%
d14-Dibenzo(a,h)anthracen	75.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
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Sample ID: AHA-01-3NW(0-2)
MATRIX SPIKE DUPLICATE

Lab Sample ID: PX44A
LIMS ID: 09-28003
Matrix: Soil
Data Release Authorized:
Reported: 11/20/09

QC Report No: PX44-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 11/16/09
Date Analyzed: 11/18/09 15:55
Instrument/Analyst: NT2/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 11.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 10.7%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.6	---
91-57-6	2-Methylnaphthalene	4.6	---
90-12-0	1-Methylnaphthalene	4.6	---
208-96-8	Acenaphthylene	4.6	---
83-32-9	Acenaphthene	4.6	---
86-73-7	Fluorene	4.6	---
85-01-8	Phenanthrene	4.6	---
120-12-7	Anthracene	4.6	---
206-44-0	Fluoranthene	4.6	---
129-00-0	Pyrene	4.6	---
56-55-3	Benzo(a)anthracene	4.6	---
218-01-9	Chrysene	4.6	---
205-99-2	Benzo(b)fluoranthene	4.6	---
207-08-9	Benzo(k)fluoranthene	4.6	---
50-32-8	Benzo(a)pyrene	4.6	---
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	---
53-70-3	Dibenz(a,h)anthracene	4.6	---
191-24-2	Benzo(g,h,i)perylene	4.6	---
132-64-9	Dibenzofuran	4.6	---

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	58.3%
d14-Dibenzo(a,h)anthracen	72.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: LCS-111609
LAB CONTROL SAMPLE

Lab Sample ID: LCS-111609
LIMS ID: 09-28003
Matrix: Soil
Data Release Authorized:
Reported: 11/20/09

QC Report No: PX44-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: NA
Date Received: NA

Date Extracted: 11/16/09
Date Analyzed LCS: 11/18/09 14:43
Instrument/Analyst LCS: NT2/PK

Sample Amount LCS: 10.0 g-dry-wt
Final Extract Volume LCS: 0.50 mL
Dilution Factor LCS: 1.00

Analyte	LCS	Spike Added	Recovery
Naphthalene	102	150	68.0%
2-Methylnaphthalene	102	150	68.0%
1-Methylnaphthalene	102	150	68.0%
Acenaphthylene	106	150	70.7%
Acenaphthene	105	150	70.0%
Fluorene	113	150	75.3%
Phenanthrene	111	150	74.0%
Anthracene	114	150	76.0%
Fluoranthene	123	150	82.0%
Pyrene	120	150	80.0%
Benzo(a)anthracene	123	150	82.0%
Chrysene	121	150	80.7%
Benzo(b)fluoranthene	134	150	89.3%
Benzo(k)fluoranthene	111	150	74.0%
Benzo(a)pyrene	130	150	86.7%
Indeno(1,2,3-cd)pyrene	108	150	72.0%
Dibenz(a,h)anthracene	119	150	79.3%
Benzo(g,h,i)perylene	97.5	150	65.0%
Dibenzofuran	112	150	74.7%

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	68.0%
d14-Dibenzo(a,h)anthracen	76.3%

4B

SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

PX44MBS1

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR QEA

ARI Job No: PX44 Project: EDDON BOATYARD

Lab File ID: 111810 Date Extracted: 11/16/09

Instrument ID: NT2 Date Analyzed: 11/18/09

Matrix: SOLID Time Analyzed: 1420

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	PX44LCSS1	PX44LCSS1	111811	11/18/09
02	AHA-01-3NW(0-2)	PX44A	111812	11/18/09
03	AHA-01-3NW(0-2)	PX44AMS	111813	11/18/09
04	AHA-01-3NW(0-2)	PX44AMSD	111814	11/18/09
05	AHA-01-4NE(0-2)	PX44B	111815	11/18/09
06	AHA-01-3NW(0-2)	PX44A	111904	11/19/09
07	AHA-01-4NE(0-2)	PX44B	111905	11/19/09
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COMMENTS:

FORM IV SV

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS

Sample ID: MB-111609
METHOD BLANK

Lab Sample ID: MB-111609
LIMS ID: 09-28003
Matrix: Soil
Data Release Authorized:
Reported: 11/20/09

QC Report No: PX44-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: NA
Date Received: NA

Date Extracted: 11/16/09
Date Analyzed: 11/18/09 14:20
Instrument/Analyst: NT2/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	5.0	< 5.0 U
90-12-0	1-Methylnaphthalene	5.0	< 5.0 U
208-96-8	Acenaphthylene	5.0	< 5.0 U
83-32-9	Acenaphthene	5.0	< 5.0 U
86-73-7	Fluorene	5.0	< 5.0 U
85-01-8	Phenanthrene	5.0	< 5.0 U
120-12-7	Anthracene	5.0	< 5.0 U
206-44-0	Fluoranthene	5.0	< 5.0 U
129-00-0	Pyrene	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	5.0	< 5.0 U
218-01-9	Chrysene	5.0	< 5.0 U
205-99-2	Benzo(b)fluoranthene	5.0	< 5.0 U
207-08-9	Benzo(k)fluoranthene	5.0	< 5.0 U
50-32-8	Benzo(a)pyrene	5.0	< 5.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	< 5.0 U
53-70-3	Dibenz(a,h)anthracene	5.0	< 5.0 U
191-24-2	Benzo(g,h,i)perylene	5.0	< 5.0 U
132-64-9	Dibenzofuran	5.0	< 5.0 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	70.3%
d14-Dibenzo(a,h)anthracen	70.3%

TOTAL SOLIDS

Extractions Total Solids-extts
Data By: Jim Hawk
Created: 11/14/09

Worklist: 1996
Analyst: RVR
Comments:

	ARI ID / CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1.	PX44A 09-28003 AHA-01-3NW(0-2)	1.16	12.22	11.04	89.3	NR
2.	PX44B 09-28004 AHA-01-4NE(0-2)	1.14	12.59	11.06	86.6	NR

Laboratory Data Package

prepared
for

Anchor QEA

Project: Eddon Boatyard

ARI JOB NO: PX44

prepared
by

Analytical Resources, Inc.

SIM Semivolatile Analysis
QC Summary Data

prepared
for

Anchor QEA

Project: Eddon Boatyard

ARI JOB NO: PX44

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: PX44-Anchor QEA
Project: Eddon Boatyard

Client ID	MNP	DBA	TOT OUT
MB-111609	70.3%	70.3%	0
LCS-111609	68.0%	76.3%	0
AHA-01-3NW(0-2)	65.0%	62.0%	0
AHA-01-3NW(0-2) DL	64.0%	71.0%	0
AHA-01-3NW(0-2) MS	69.3%	75.3%	0
AHA-01-3NW(0-2) MSD	58.3%	72.3%	0
AHA-01-4NE(0-2)	60.0%	63.0%	0
AHA-01-4NE(0-2) DL	63.3%	75.0%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(35-100)	(34-100)
(DBA) = d14-Dibenzo(a,h)anthracene	(37-120)	(10-117)

Prep Method: SW3546
Log Number Range: 09-28003 to 09-28004

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: AHA-01-3NW(0-2)
MATRIX SPIKE

Lab Sample ID: PX44A
LIMS ID: 09-28003
Matrix: Soil
Data Release Authorized:
Reported: 11/20/09

QC Report No: PX44-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted MS/MSD: 11/16/09

Date Analyzed MS: 11/18/09 15:31
MSD: 11/18/09 15:55
Instrument/Analyst MS: NT2/PK
MSD: NT2/PK

Sample Amount MS: 11.0 g-dry-wt
MSD: 11.0 g-dry-wt
Final Extract Volume MS: 0.50 mL
MSD: 0.50 mL
Dilution Factor MS: 1.00
MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Naphthalene	15.3	110	136	69.6%	90.5	136	55.3%	19.5%
2-Methylnaphthalene	6.0	101	136	69.9%	83.2	136	56.8%	19.3%
1-Methylnaphthalene	< 4.6 U	100	136	73.5%	83.2	136	61.2%	18.3%
Acenaphthylene	75.9	195	136	87.6%	175	136	72.9%	10.8%
Acenaphthene	< 4.6 U	104	136	76.5%	92.3	136	67.9%	11.9%
Fluorene	7.9	133	136	92.0%	115	136	78.8%	14.5%
Phenanthrene	151	370	136	161%	305	136	113%	19.3%
Anthracene	37.5	165	136	93.8%	149	136	82.0%	10.2%
Fluoranthene	455	790 E	136	246%	657 E	136	149%	18.4%
Pyrene	657 E	956 E	136	NA	846 E	136	NA	NA
Benzo(a)anthracene	326	513 E	136	138%	496 E	136	125%	3.4%
Chrysene	377	565 E	136	138%	544 E	136	123%	3.8%
Benzo(b)fluoranthene	245	413	136	124%	381	136	100%	8.1%
Benzo(k)fluoranthene	245	413	136	124%	381	136	100%	8.1%
Benzo(a)pyrene	439	624 E	136	136%	596 E	136	115%	4.6%
Indeno(1,2,3-cd)pyrene	179	306	136	93.4%	291	136	82.4%	5.0%
Dibenz(a,h)anthracene	76.4	200	136	90.9%	188	136	82.1%	6.2%
Benzo(g,h,i)perylene	179	303	136	91.2%	284	136	77.2%	6.5%
Dibenzofuran	< 4.6 U	108	136	79.4%	99.1	136	72.9%	8.6%

Reported in µg/kg (ppb)

NA-No recovery due to high concentration of analyte in original sample, calculated negative recovery, or undetected spike.
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS

Sample ID: LCS-111609
LAB CONTROL SAMPLE

Lab Sample ID: LCS-111609
LIMS ID: 09-28003
Matrix: Soil
Data Release Authorized:
Reported: 11/20/09

QC Report No: PX44-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: NA
Date Received: NA

Date Extracted: 11/16/09
Date Analyzed LCS: 11/18/09 14:43
Instrument/Analyst LCS: NT2/PK

Sample Amount LCS: 10.0 g-dry-wt
Final Extract Volume LCS: 0.50 mL
Dilution Factor LCS: 1.00

Analyte	LCS	Spike Added	Recovery
Naphthalene	102	150	68.0%
2-Methylnaphthalene	102	150	68.0%
1-Methylnaphthalene	102	150	68.0%
Acenaphthylene	106	150	70.7%
Acenaphthene	105	150	70.0%
Fluorene	113	150	75.3%
Phenanthrene	111	150	74.0%
Anthracene	114	150	76.0%
Fluoranthene	123	150	82.0%
Pyrene	120	150	80.0%
Benzo(a)anthracene	123	150	82.0%
Chrysene	121	150	80.7%
Benzo(b)fluoranthene	134	150	89.3%
Benzo(k)fluoranthene	111	150	74.0%
Benzo(a)pyrene	130	150	86.7%
Indeno(1,2,3-cd)pyrene	108	150	72.0%
Dibenz(a,h)anthracene	119	150	79.3%
Benzo(g,h,i)perylene	97.5	150	65.0%
Dibenzofuran	112	150	74.7%

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	68.0%
d14-Dibenzo(a,h)anthracen	76.3%

4B

SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

PX44MBS1

Lab Name: ANALYTICAL RESOURCES, INC — Client: ANCHOR QEA

ARI Job No: PX44 — Project: EDDON BOATYARD

Lab File ID: 111810 — Date Extracted: 11/16/09

Instrument ID: NT2 — Date Analyzed: 11/18/09

Matrix: SOLID — Time Analyzed: 1420

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	PX44LCSS1	PX44LCSS1	111811	11/18/09
02	AHA-01-3NW(0-2)	PX44A	111812	11/18/09
03	AHA-01-3NW(0-2)	PX44AMS	111813	11/18/09
04	AHA-01-3NW(0-2)	PX44AMSD	111814	11/18/09
05	AHA-01-4NE(0-2)	PX44B	111815	11/18/09
06	AHA-01-3NW(0-2)	PX44A	111904	11/19/09
07	AHA-01-4NE(0-2)	PX44B	111905	11/19/09
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COMMENTS:

FORM IV SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR QEA

Instrument ID: NT2 Project: EDDON BOAT YARD

DFTPP Injection Date: 11/02/09 DFTPP Injection Time: 1617

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	65.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	80.5
70	Less than 2.0% of mass 69	0.5 (0.7)1
127	25.0 - 75.0% of mass 198	63.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.6
275	10.0 - 30.0% of mass 198	21.7
365	Greater than 0.75% of mass 198	2.92
441	Present, but less than mass 443	8.8
442	40.0 - 110.0% of mass 198	62.4
443	15.0 - 24.0% of mass 442	12.5 (20.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		PNA 2.5	IC110201	11/02/09	1636
02		PNA 10	IC110202	11/02/09	1700
03		PNA 0.1	IC110203	11/02/09	1724
04		PNA 5	IC110204	11/02/09	1748
05		PNA 0.5	IC110205	11/02/09	1812
06		PNA 1	IC110206	11/02/09	1835
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FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR QEA

Instrument ID: NT2 Project: EDDON BOAT YARD

DFTPP Injection Date: 11/18/09 DFTPP Injection Time: 0933

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	62.5
68	Less than 2.0% of mass 69	0.3 (0.3)1
69	Mass 69 relative abundance	79.1
70	Less than 2.0% of mass 69	0.4 (0.5)1
127	25.0 - 75.0% of mass 198	61.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.3
275	10.0 - 30.0% of mass 198	23.6
365	Greater than 0.75% of mass 198	3.39
441	Present, but less than mass 443	10.7
442	40.0 - 110.0% of mass 198	74.6
443	15.0 - 24.0% of mass 442	14.3 (19.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		PNA 2.5	CC1118	11/18/09	0953
02	PX44MBS1	PX44MBS1	111810	11/18/09	1420
03	PX44LCSS1	PX44LCSS1	111811	11/18/09	1443
04	AHA-01-3NW(0-2)	PX44A	111812	11/18/09	1507
05	AHA-01-3NW(0-2)	PX44AMS	111813	11/18/09	1531
06	AHA-01-3NW(0-2)	PX44AMSD	111814	11/18/09	1555
07	AHA-01-4NE(0-2)	PX44B	111815	11/18/09	1618
08					
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FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR QEA

Instrument ID: NT2 Project: EDDON BOAT YARD

DFTPP Injection Date: 11/19/09 DFTPP Injection Time: 1104

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	62.7
68	Less than 2.0% of mass 69	0.1 (0.2)1
69	Mass 69 relative abundance	77.0
70	Less than 2.0% of mass 69	0.7 (0.9)1
127	25.0 - 75.0% of mass 198	62.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	22.2
365	Greater than 0.75% of mass 198	2.82
441	Present, but less than mass 443	9.9
442	40.0 - 110.0% of mass 198	68.7
443	15.0 - 24.0% of mass 442	13.4 (19.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		PNA 2.5	CC1119	11/19/09	1131
02	AHA-01-3NW(0-2)	PX44A	111904	11/19/09	1349
03	AHA-01-4NE(0-2)	PX44B	111905	11/19/09	1413
04					
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FORM V SV

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR QEA

ARI Job No: PX44 Project: EDDON BOAT YARD

Ical Midpoint ID: IC110201 Ical Date: 11/02/09

Instrument ID: NT2 Cont. Cal Date: 11/18/09

		IS1(NPT) AREA #	RT #	IS2(ANT) AREA #	RT #	IS3(PHN) AREA #	RT #
	ICAL MIDPT	353094	5.98	172751	8.77	254451	11.12
	UPPER LIMIT	706188		345502		508902	
	LOWER LIMIT	176547		86376		127226	
	CCAL	395789	5.87	194874	8.65	288373	11.00
	UPPER LIMIT		6.37		9.15		11.50
	LOWER LIMIT		5.37		8.15		10.50
01	PX44MBS1	382150	5.88	195560	8.65	289993	11.00
02	PX44LCSS1	392323	5.88	197843	8.65	297326	11.00
03	AHA-01-3NW(0	384809	5.87	199958	8.65	287443	11.00
04	AHA-01-3NW(0	396848	5.88	203925	8.65	301314	11.00
05	AHA-01-3NW(0	402547	5.88	202248	8.65	295655	11.00
06	AHA-01-4NE(0	383597	5.88	192013	8.65	286023	11.00
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IS1 = Naphthalene-d8
IS2 = Acenaphthene-d10
IS3 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

FORM VIII SV-1

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR QEA

ARI Job No: PX44 Project: EDDON BOAT YARD

Ical Midpoint ID: IC110201 Ical Date: 11/02/09

Instrument ID: NT2 Cont. Cal Date: 11/18/09

		IS4(CRY) AREA #	RT #	IS5(PRY) AREA #	RT #	AREA #	RT #
	ICAL MIDPT	238407	15.13	207102	16.72		
	UPPER LIMIT	476814		414204			
	LOWER LIMIT	119204		103551			
	CCAL	244489	15.02	201557	16.63		
	UPPER LIMIT		15.52		17.13		
	LOWER LIMIT		14.52		16.13		
01	PX44MBS1	266922	15.02	249411	16.63		
02	PX44LCSS1	283232	15.02	251786	16.63		
03	AHA-01-3NW(0	291563	15.03	267530	16.63		
04	AHA-01-3NW(0	312479	15.03	281752	16.63		
05	AHA-01-3NW(0	302700	15.03	277065	16.63		
06	AHA-01-4NE(0	314923	15.04	287242	16.64		
07							
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IS4 = Chrysene-d12
IS5 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

FORM VIII SV-2

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR QEA

ARI Job No: PX44 Project: EDDON BOAT YARD

Ical Midpoint ID: IC110201 Ical Date: 11/02/09

Instrument ID: NT2 Cont. Cal Date: 11/19/09

		IS1(NPT) AREA #	RT #	IS2(ANT) AREA #	RT #	IS3(PHN) AREA #	RT #
	ICAL MIDPT	353094	5.98	172751	8.77	254451	11.12
	UPPER LIMIT	706188		345502		508902	
	LOWER LIMIT	176547		86376		127226	
	CCAL	470233	5.79	229509	8.55	342481	10.90
	UPPER LIMIT		6.29		9.05		11.40
	LOWER LIMIT		5.29		8.05		10.40
01	AHA-01-3NW(0	383707	5.80	191243	8.56	288065	10.90
02	AHA-01-4NE(0	396578	5.80	198348	8.56	292898	10.90
03							
04							
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25							

IS1 = Naphthalene-d8
IS2 = Acenaphthene-d10
IS3 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

FORM VIII SV-1

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR QEA

ARI Job No: PX44 Project: EDDON BOAT YARD

Ical Midpoint ID: IC110201 Ical Date: 11/02/09

Instrument ID: NT2 Cont. Cal Date: 11/19/09

		IS4(CRY) AREA #	RT #	IS5(PRY) AREA #	RT #	AREA #	RT #
	ICAL MIDPT	238407	15.13	207102	16.72		
	UPPER LIMIT	476814		414204			
	LOWER LIMIT	119204		103551			
	CCAL	303217	14.93	257010	16.54		
	UPPER LIMIT		15.43		17.04		
	LOWER LIMIT		14.43		16.04		
01	AHA-01-3NW(0	285211	14.93	261227	16.55		
02	AHA-01-4NE(0	297265	14.93	273908	16.55		
03							
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25							

IS4 = Chrysene-d12
IS5 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

FORM VIII SV-2

SIM Semivolatile Analysis
Sample Data

prepared
for

Anchor QEA

Project: Eddon Boatyard

ARI JOB NO: PX44

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS

Sample ID: AHA-01-3NW(0-2)
SAMPLE

Lab Sample ID: PX44A
LIMS ID: 09-28003
Matrix: Soil
Data Release Authorized:
Reported: 11/20/09

QC Report No: PX44-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 11/16/09
Date Analyzed: 11/18/09 15:07
Instrument/Analyst: NT2/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.8 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 10.7%

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**4.6**	**15**
91-57-6	**2-Methylnaphthalene**	**4.6**	**6.0**
90-12-0	1-Methylnaphthalene	4.6	< 4.6 U
208-96-8	**Acenaphthylene**	**4.6**	**76**
83-32-9	Acenaphthene	4.6	< 4.6 U
86-73-7	**Fluorene**	**4.6**	**7.9**
85-01-8	**Phenanthrene**	**4.6**	**150**
120-12-7	**Anthracene**	**4.6**	**38**
206-44-0	**Fluoranthene**	**4.6**	**460**
129-00-0	**Pyrene**	**4.6**	**660 E**
56-55-3	**Benzo(a)anthracene**	**4.6**	**330**
218-01-9	**Chrysene**	**4.6**	**380**
205-99-2	**Benzo(b)fluoranthene**	**4.6**	**240**
207-08-9	**Benzo(k)fluoranthene**	**4.6**	**240**
50-32-8	**Benzo(a)pyrene**	**4.6**	**440**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**4.6**	**180**
53-70-3	**Dibenz(a,h)anthracene**	**4.6**	**76**
191-24-2	**Benzo(g,h,i)perylene**	**4.6**	**180**
132-64-9	Dibenzofuran	4.6	< 4.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	65.0%
d14-Dibenzo(a,h)anthracen	62.0%

Analytical Resources, Inc.

METHOD SW8270D-SIM

Data file : /chem3/nt2.i/20091118.b/111812.d
Lab Smp Id: PX44A Client Smp ID: AHA-01-3NW(0-2)
Inj Date : 18-NOV-2009 15:07
Operator : VTS Inst ID: nt2.i
Smp Info : PX44A
Misc Info : 09-28003
Comment : 1ul Injection
Method : /chem3/nt2.i/20091118.b/simpna.m
Meth Date : 19-Nov-2009 10:30 peter Quant Type: ISTD
Cal Date : 02-NOV-2009 18:35 Cal File: ic110206.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	12.10000	Weight of sample extracted (g)
M	10.70000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	1 Naphthalene-d8	136	5.875	5.872	(1.000)	384809	2.00000	
	2 Naphthalene	128	5.903	5.903	(1.005)	62743	0.32827	15.19
$	3 2-Methylnaphthalene-d10	152	6.932	6.929	(1.180)	200393	1.94676	90.08
	4 2-Methylnaphthalene	142	6.979	6.979	(1.188)	14572	0.12738	5.894
	5 1-Methylnaphthalene	142	7.146	7.143	(1.216)	7743	0.06865	3.177
	7 Acenaphthylene	152	8.405	8.399	(0.972)	287244	1.63571	75.69
*	8 Acenaphthene-d10	164	8.651	8.652	(1.000)	199958	2.00000	
	9 Acenaphthene	153	8.702	8.702	(1.006)	7890	0.07331	3.392(M)
	10 Dibenzofuran	168	8.961	8.958	(1.036)	11389	0.07793	3.606
	11 Fluorene	166	9.507	9.510	(1.099)	20981	0.17412	8.057(M)
*	15 Phenanthrene-d10	188	10.999	10.999	(1.000)	287443	2.00000	
	16 Phenanthrene	178	11.034	11.037	(1.003)	539299	3.26465	151.1
	17 Anthracene	178	11.110	11.104	(1.010)	131866	0.80679	37.33
	19 Fluoranthene	202	12.959	12.953	(1.178)	1679273	9.82128	454.5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	20 Pyrene	202	13.293	13.287	(0.885)	2668847	14.1880	656.5
	22 Benzo(a)anthracene	228	15.007	15.001	(0.999)	1196414	7.05022	326.2
*	23 Chrysene-d12	240	15.025	15.019	(1.000)	291563	2.00000	
	24 Chrysene	228	15.060	15.054	(1.002)	1370133	8.14549	376.9
	28 Benzo(b)fluoranthene	252	16.281	16.256	(0.979)	1773688	11.1736	517.0
	29 Benzo(k)fluoranthene	252	16.281	16.282	(0.979)	1773688	9.99521	462.5
	30 Benzo(a)pyrene	252	16.578	16.572	(0.997)	1268933	9.48358	438.8
*	31 Perylene-d12	264	16.632	16.626	(1.000)	267530	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.635	17.626	(1.060)	522014	3.87172	179.2
$	32 Dibenz(a,h)anthrancene-d14	292	17.613	17.607	(1.059)	155852	1.85951	86.05(M)
	34 Dibenz(a,h)anthracene	278	17.648	17.639	(1.061)	172561	1.65223	76.45(M)
	35 Benzo(g,h,i)perylene	276	17.900	17.885	(1.076)	432018	3.85827	178.5

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: 111812.d
Lab Smp Id: PX44A
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20091118.b/simpna.m
Misc Info: 09-28003

Calibration Date: 18-NOV-2009
Calibration Time: 09:53
Client Smp ID: AHA-01-3NW(0-2)
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	353094	176547	706188	384809	8.98
8 Acenaphthene-d10	172751	86376	345502	199958	15.75
15 Phenanthrene-d10	254451	127226	508902	287443	12.97
23 Chrysene-d12	238407	119204	476814	291563	22.30
31 Perylene-d12	207102	103551	414204	267530	29.18

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	5.87	5.37	6.37	5.87	0.05
8 Acenaphthene-d10	8.65	8.15	9.15	8.65	0.00
15 Phenanthrene-d10	11.00	10.50	11.50	11.00	0.00
23 Chrysene-d12	15.02	14.52	15.52	15.03	0.04
31 Perylene-d12	16.63	16.13	17.13	16.63	0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA
Client SDG: PX44
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: PX44A
Client Smp ID: AHA-01-3NW(0-2)
Level: LOW
Operator: VTS
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: soillcs.spk
Quant Type: ISTD
Sublist File: pna1mn.sub
Method File: /chem3/nt2.i/20091118.b/simpna.m
Misc Info: 09-28003

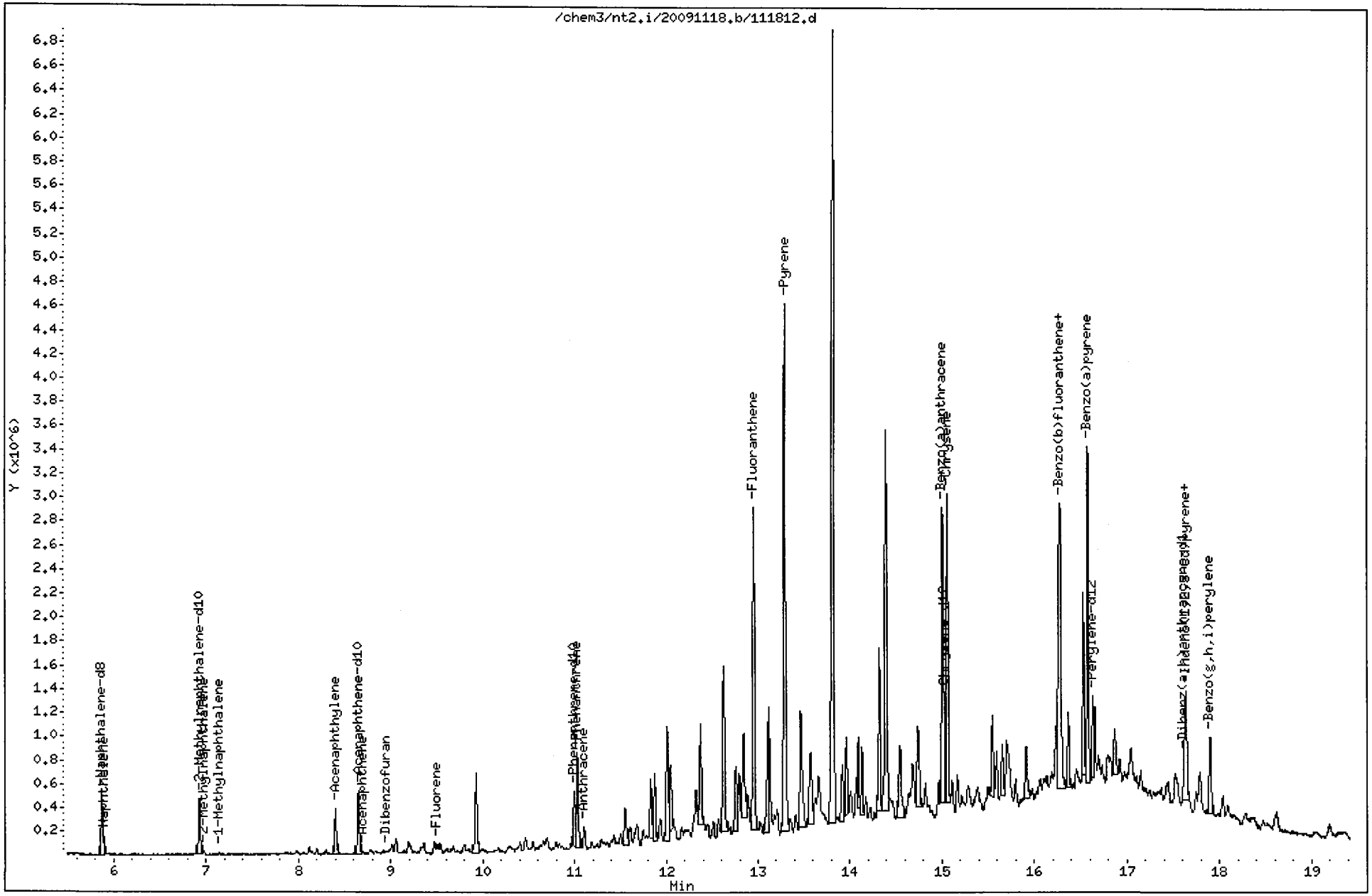
SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	138.8	90.08	64.89	34-100
$ 32 Dibenz(a,h)anthran	138.8	86.05	61.98	10-117

Data File: /chem3/nt2.i/20091118.b/111812.d
Date : 18-NOV-2009 15:07
Client ID: AHA-01-3NW(0-2)
Sample Info: PX44A
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25

PX44 : 00049



Data File: /chem3/nt2.i/20091118.b/111812.d

Date : 18-NOV-2009 15:07

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A

Volume Injected (uL): 1.0

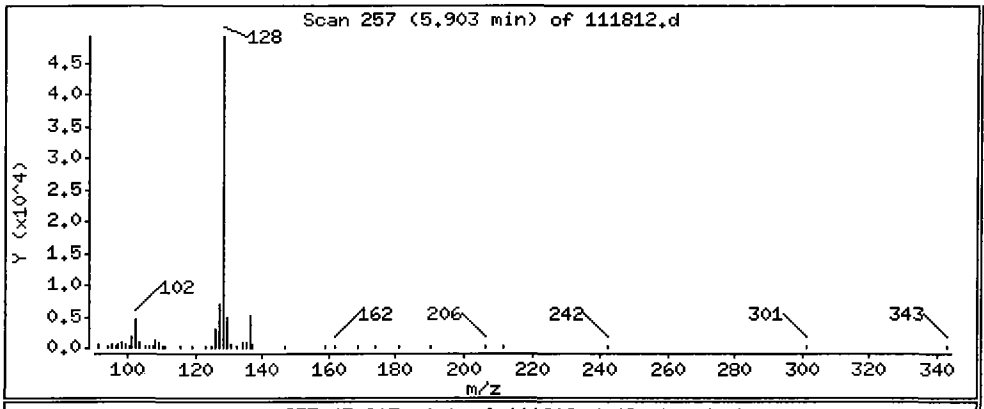
Operator: VTS

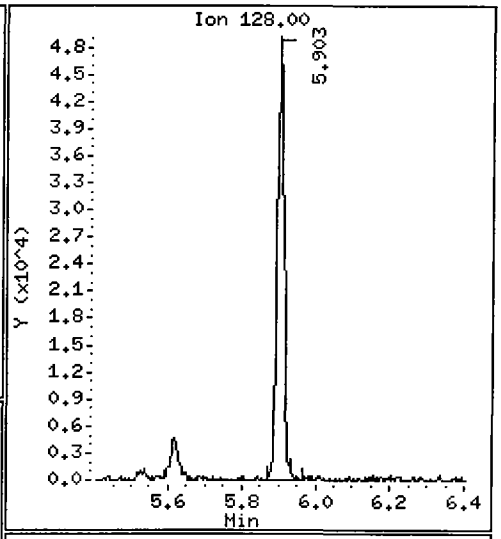
Column phase: ZB-5msi

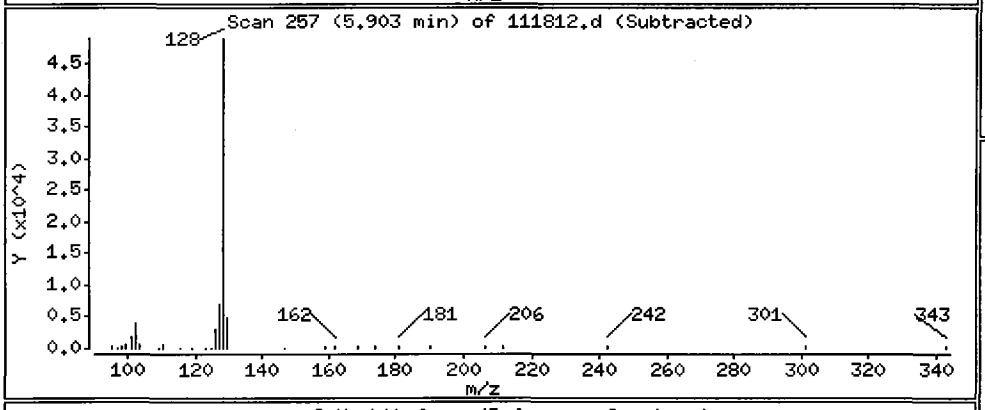
Column diameter: 0.25

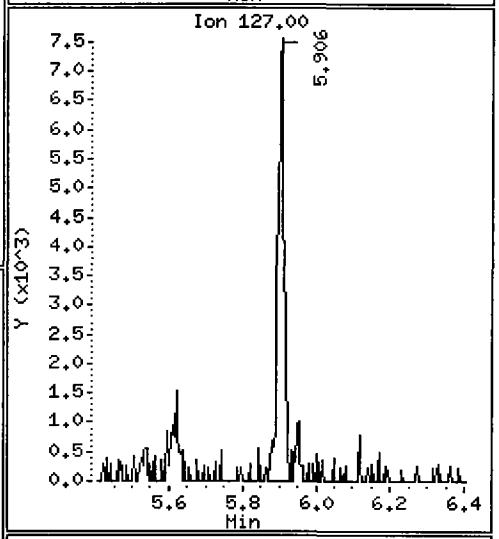
2 Naphthalene

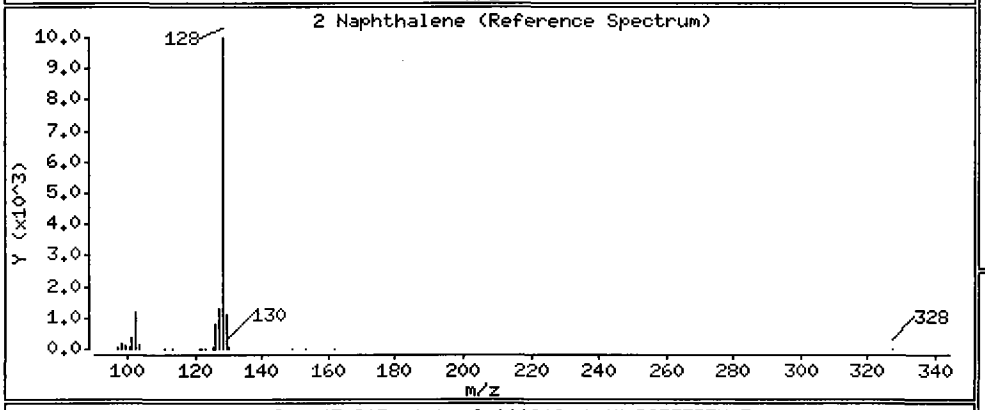
Concentration: 15.19 ug/kg

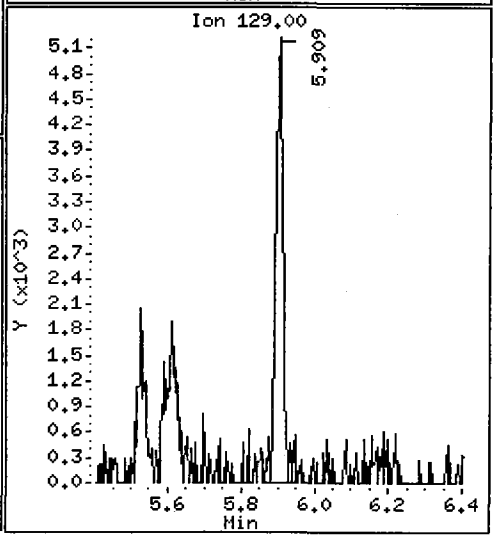


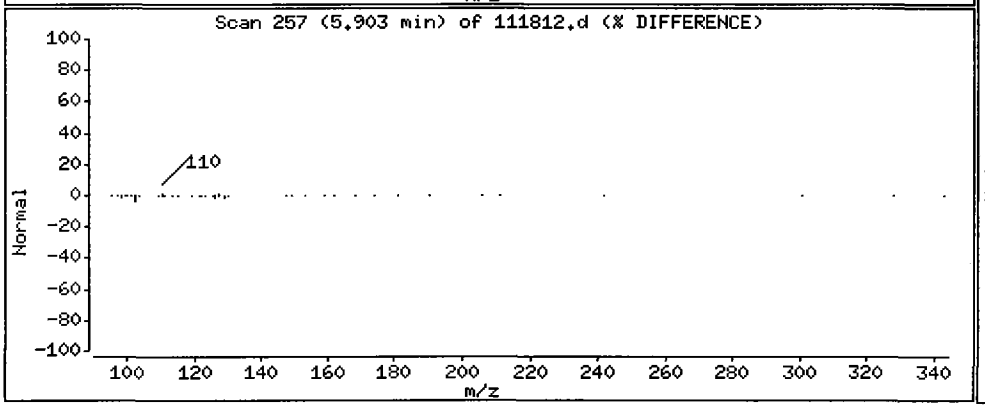












Data File: /chem3/nt2.i/20091118.b/111812.d

Date : 18-NOV-2009 15:07

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A

Volume Injected (uL): 1.0

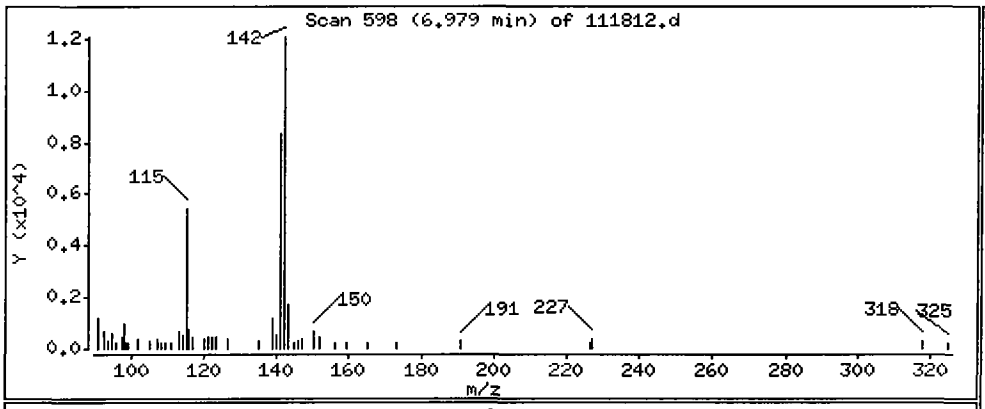
Operator: VTS

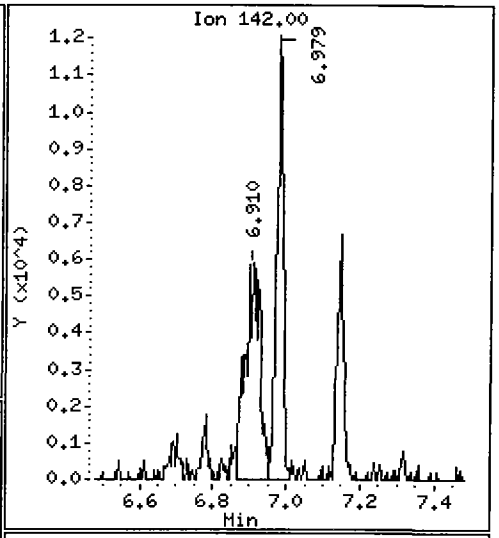
Column phase: ZB-5msi

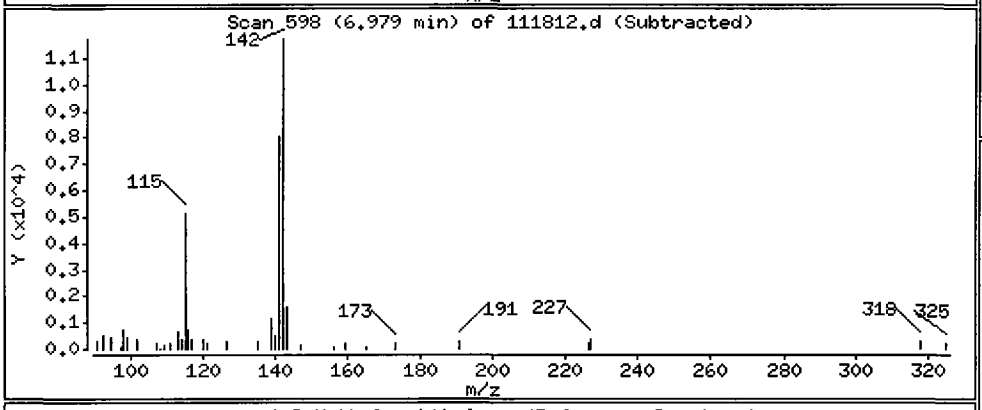
Column diameter: 0.25

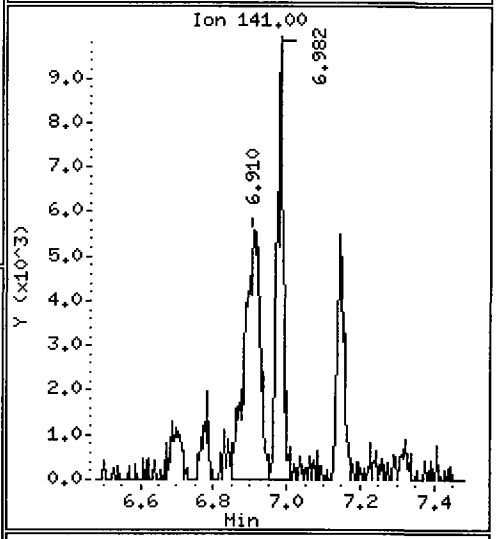
4 2-Methylnaphthalene

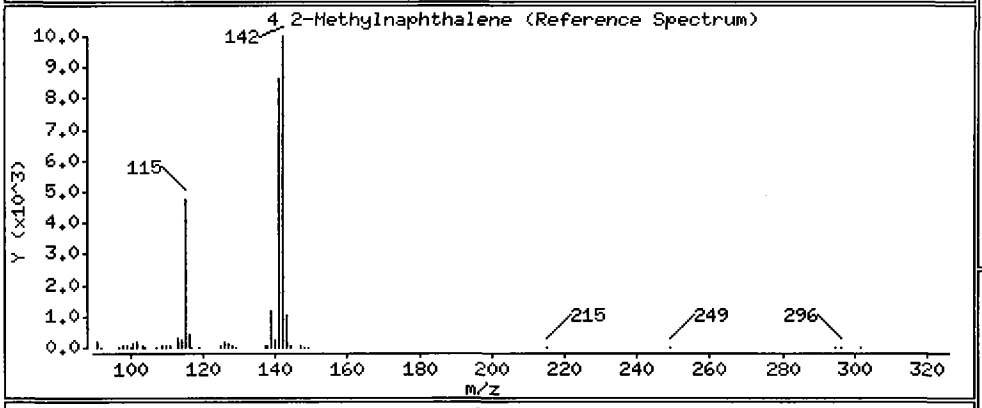
Concentration: 5.894 ug/kg

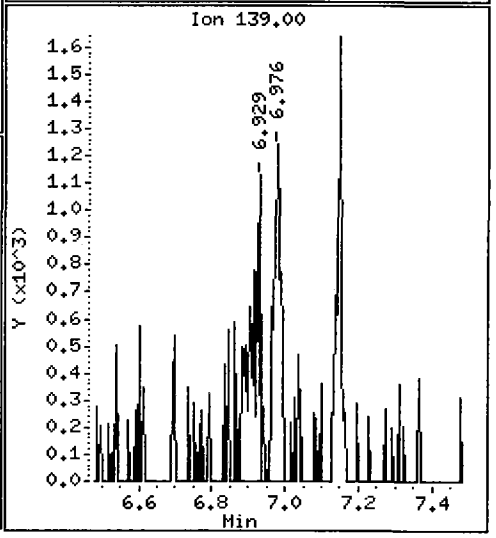


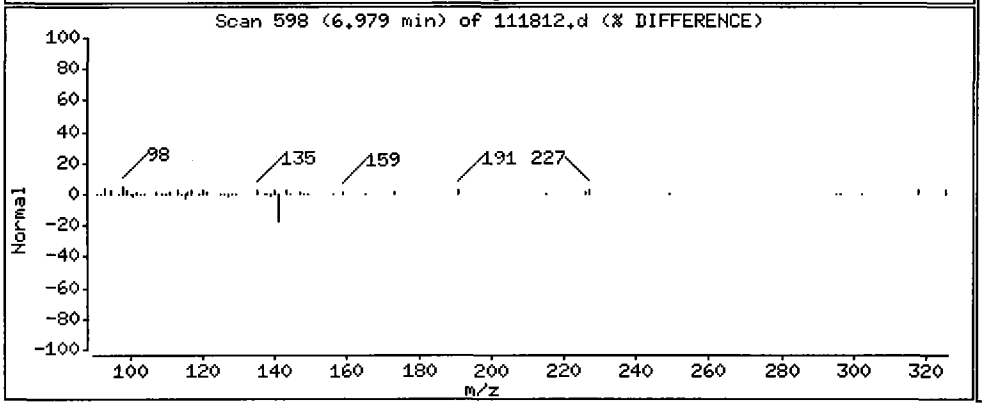












Data File: /chem3/nt2.i/20091118.b/111812.d

Date : 18-NOV-2009 15:07

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A

Volume Injected (uL): 1.0

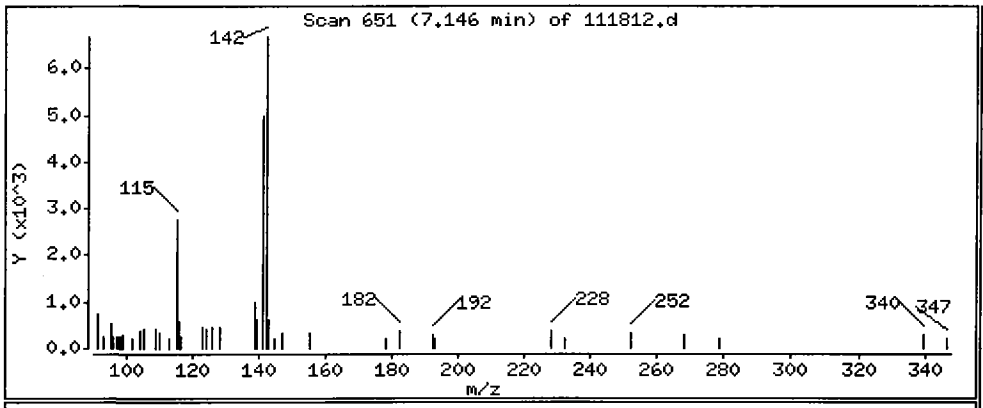
Operator: VTS

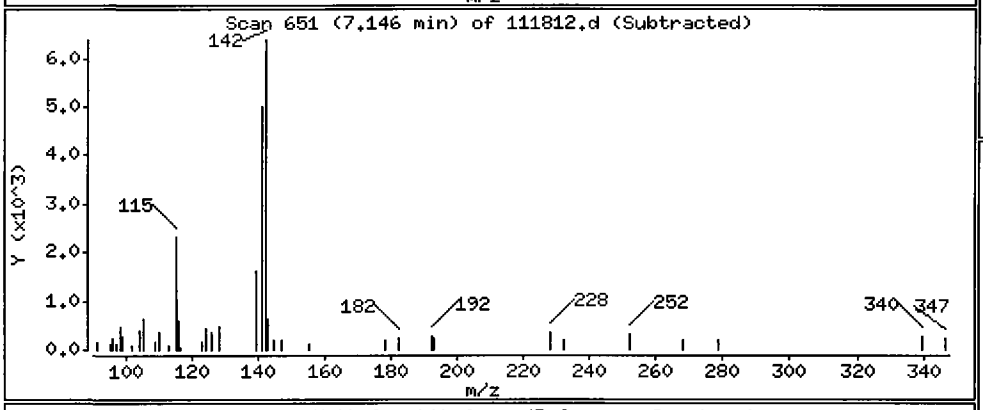
Column phase: ZB-5msi

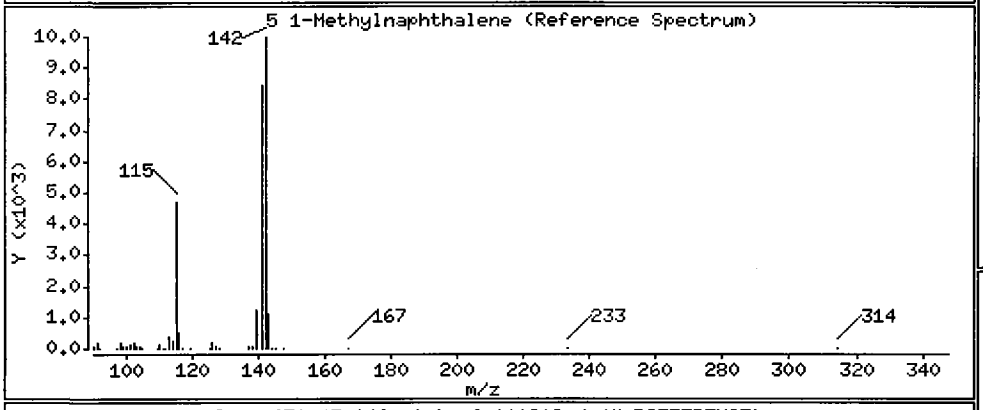
Column diameter: 0.25

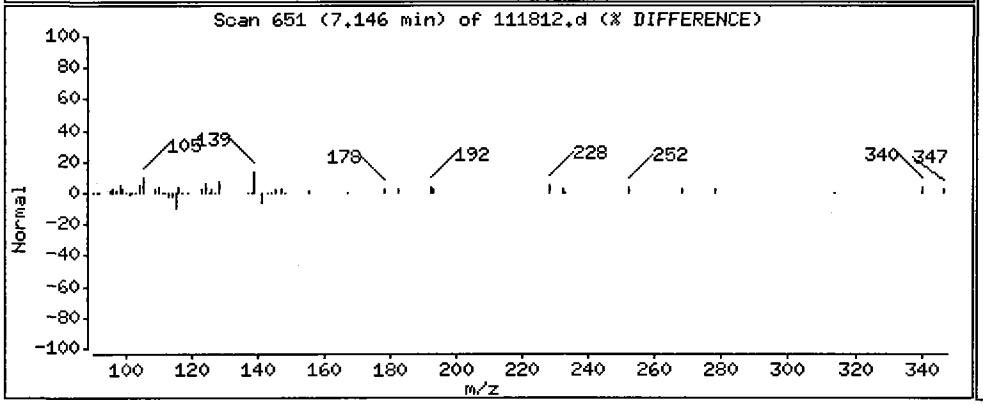
5 1-Methylnaphthalene

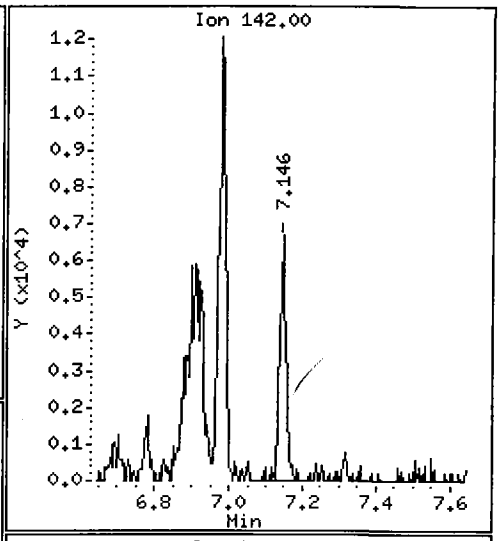
Concentration: 3.177 ug/kg

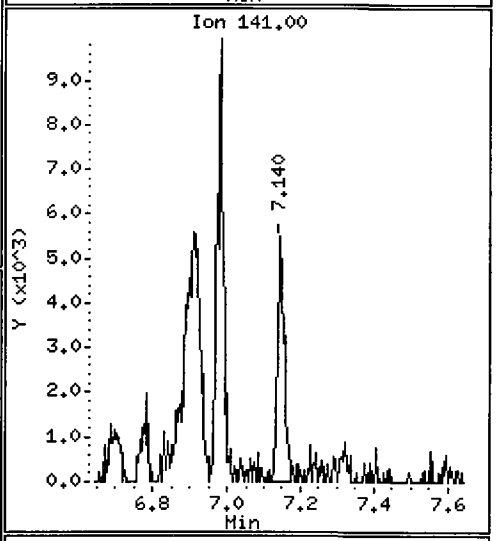


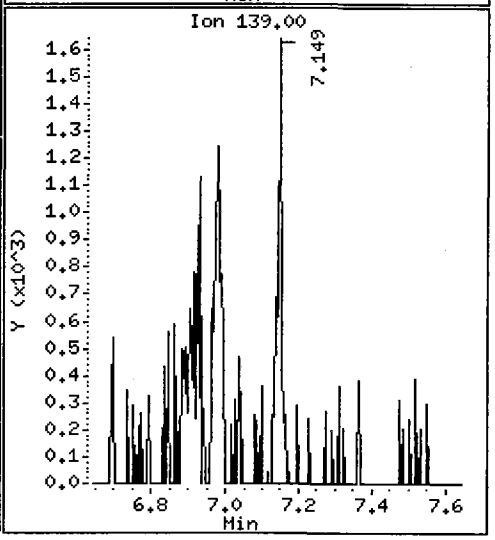












Data File: /chem3/nt2.i/20091118.b/111812.d

Date : 18-NOV-2009 15:07

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A

Volume Injected (uL): 1.0

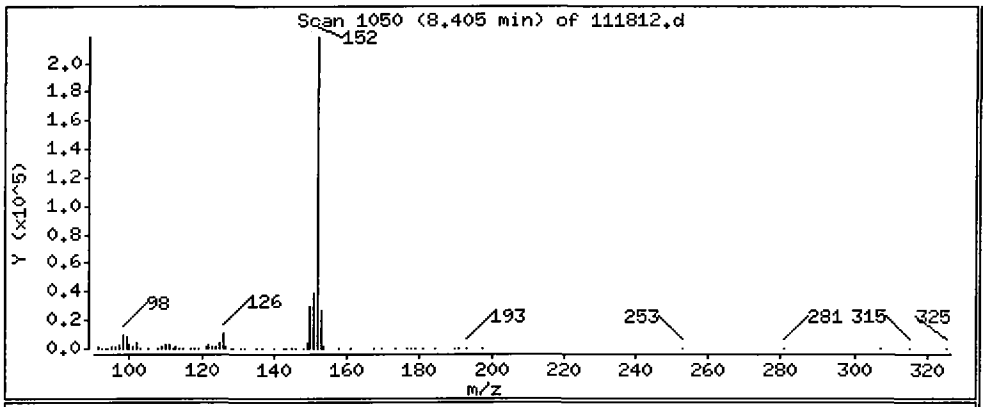
Operator: VTS

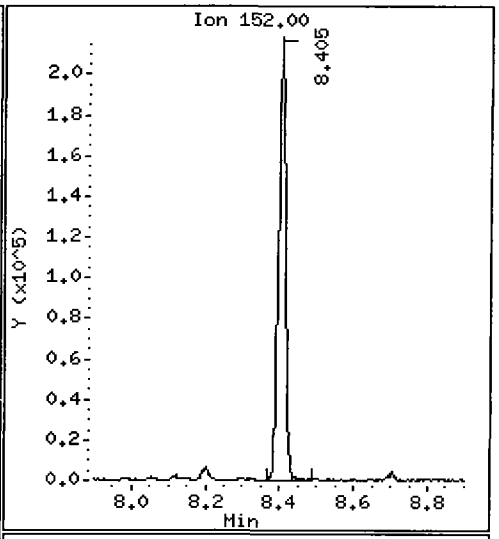
Column phase: ZB-5msi

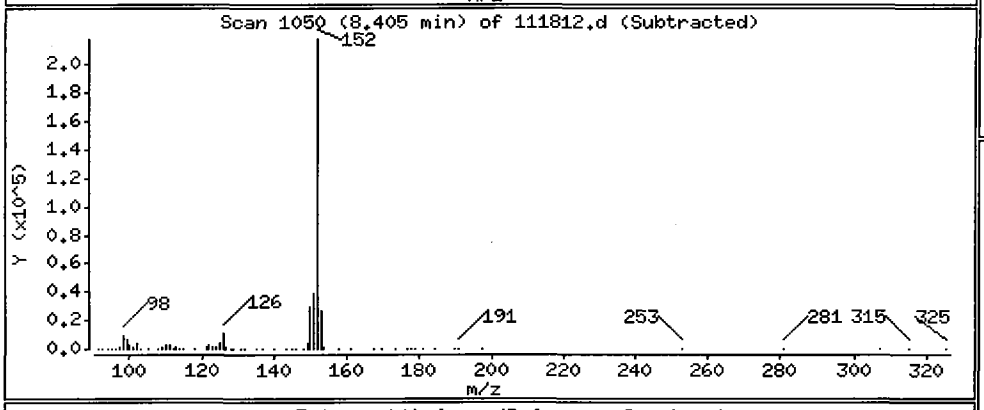
Column diameter: 0.25

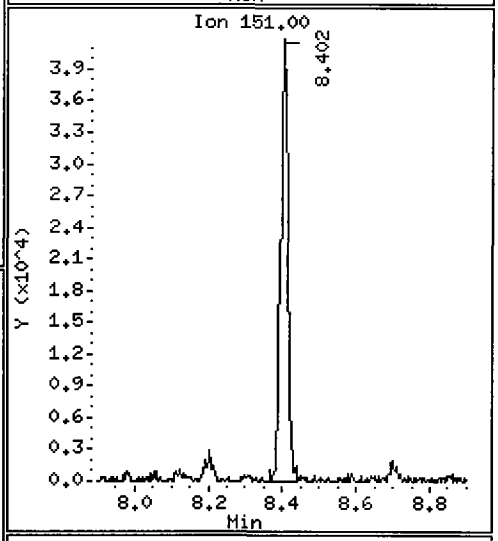
7 Acenaphthylene

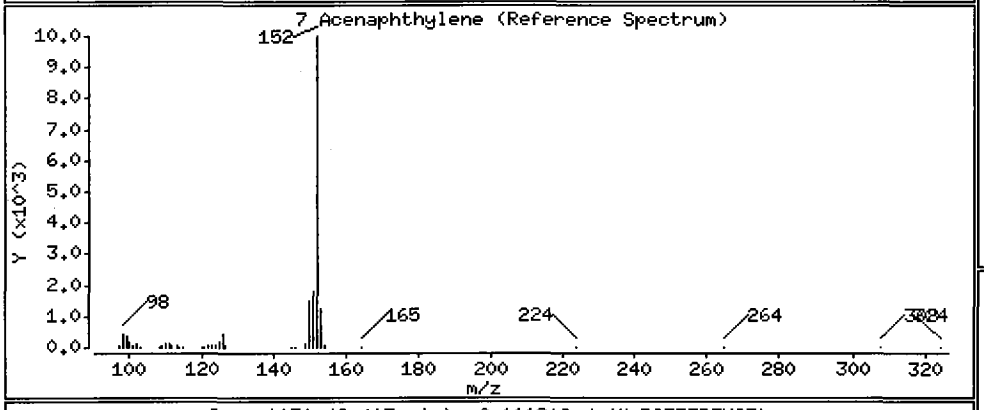
Concentration: 75.69 ug/kg

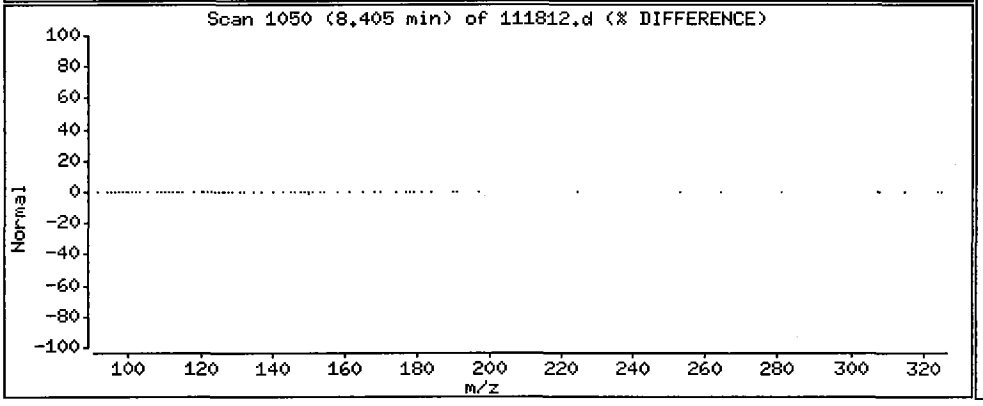


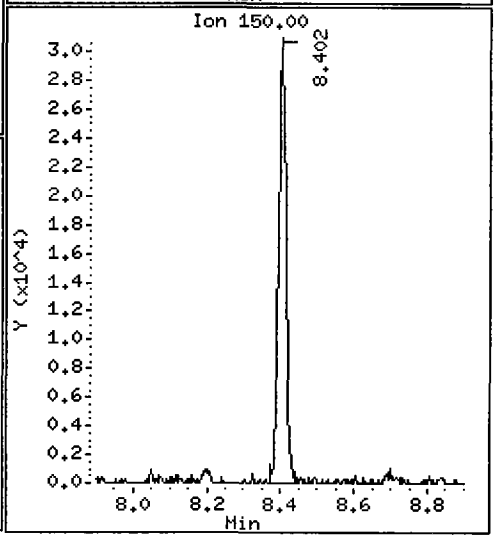












Data File: /chem3/nt2.i/20091118.b/111812.d

Date : 18-NOV-2009 15:07

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A

Volume Injected (uL): 1.0

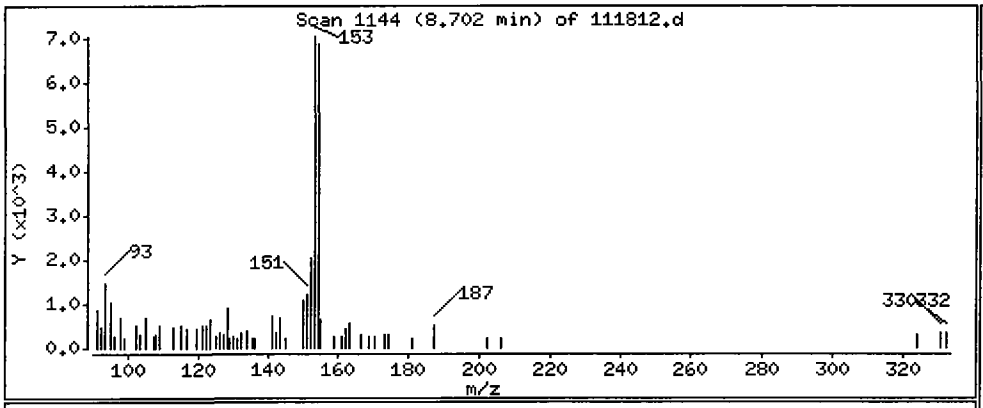
Operator: VTS

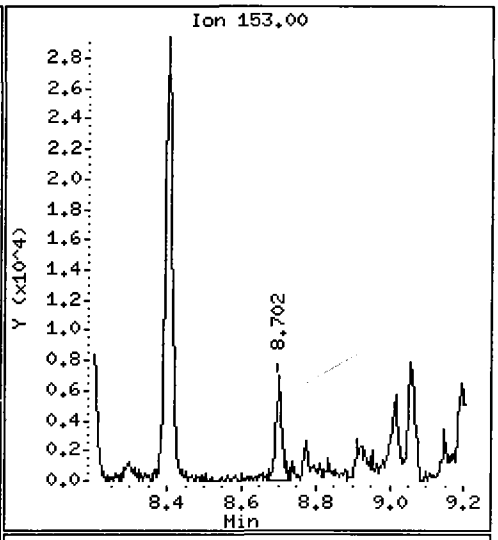
Column phase: ZB-5msi

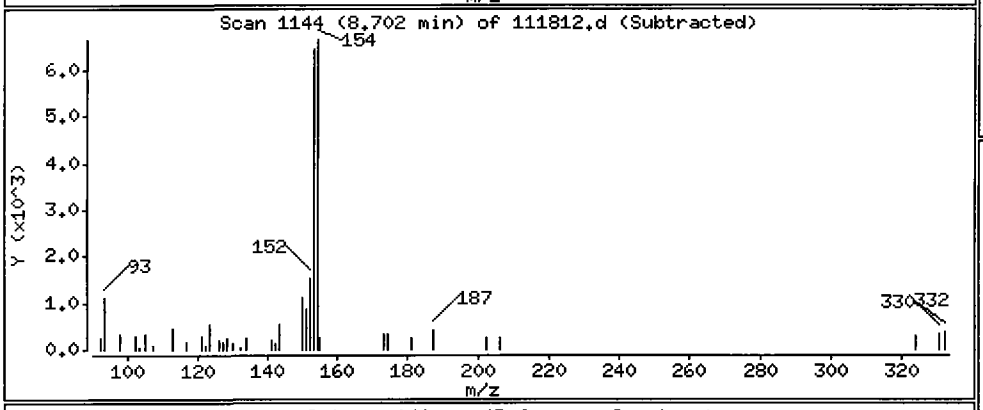
Column diameter: 0.25

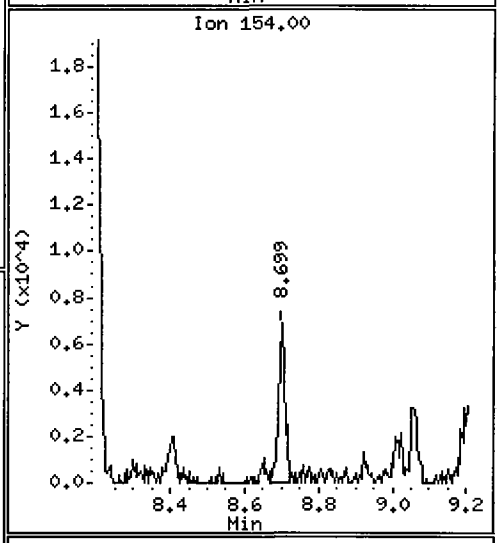
9 Acenaphthene

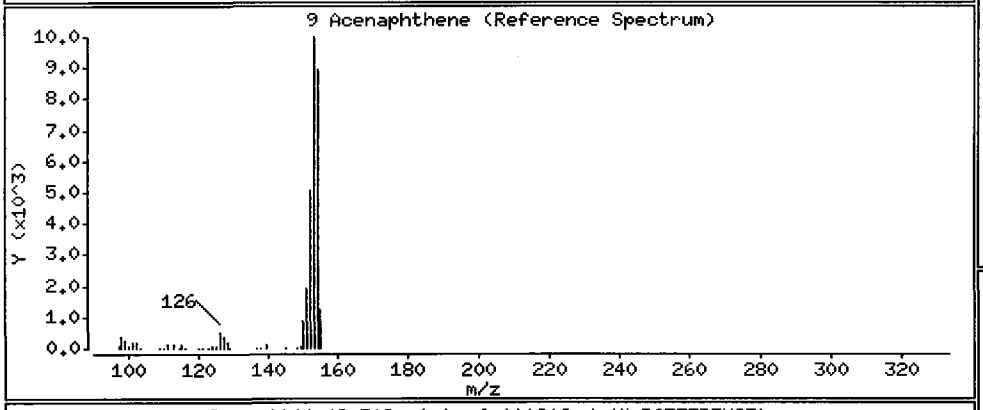
Concentration: 3.392 ug/kg

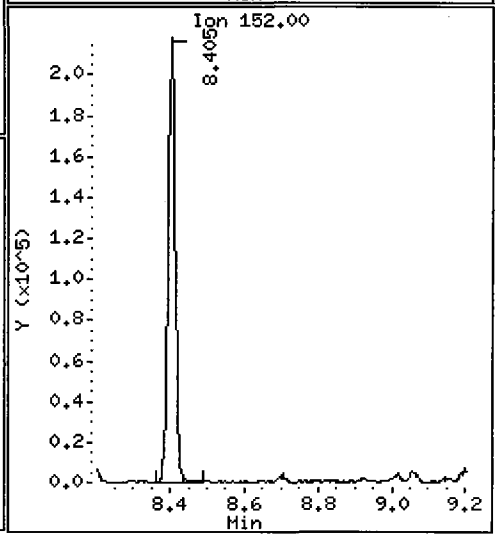


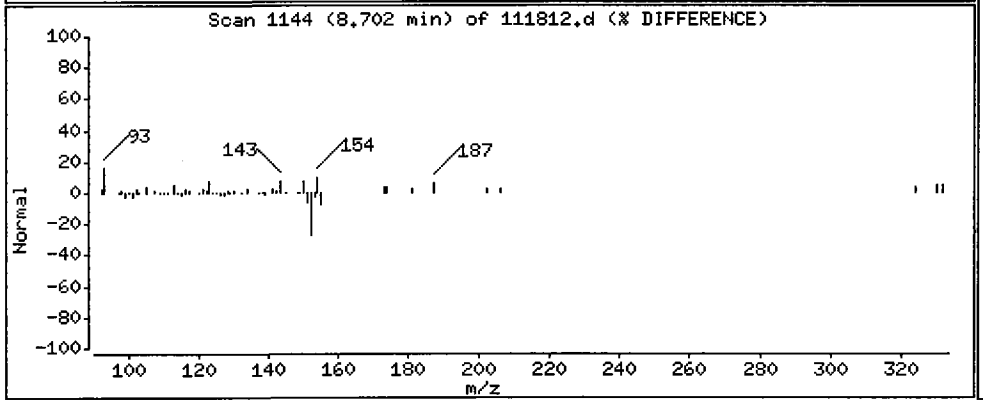












Data File: /chem3/nt2.i/20091118.b/111812.d

Date : 18-NOV-2009 15:07

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A

Volume Injected (uL): 1.0

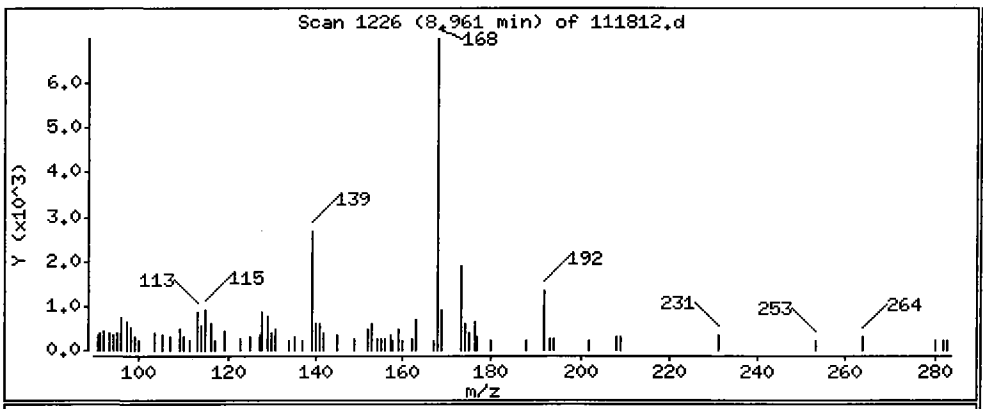
Operator: VTS

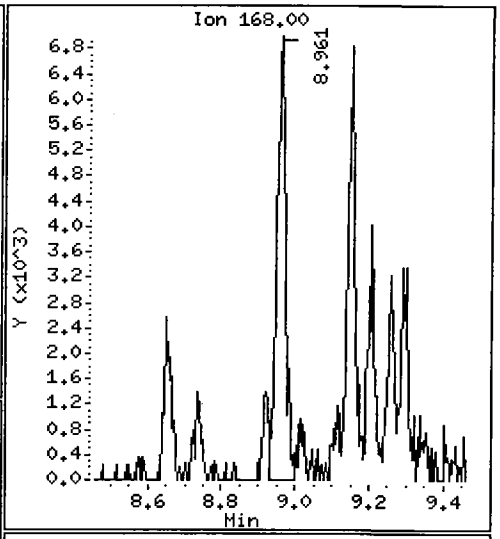
Column phase: ZB-5msi

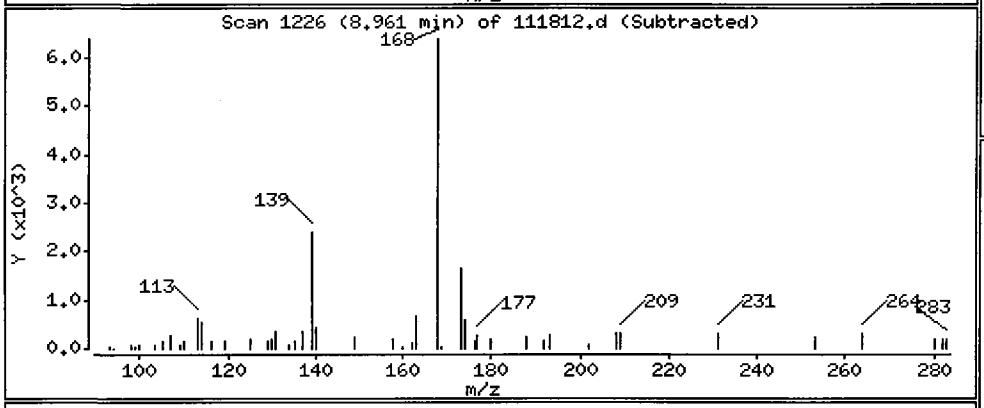
Column diameter: 0.25

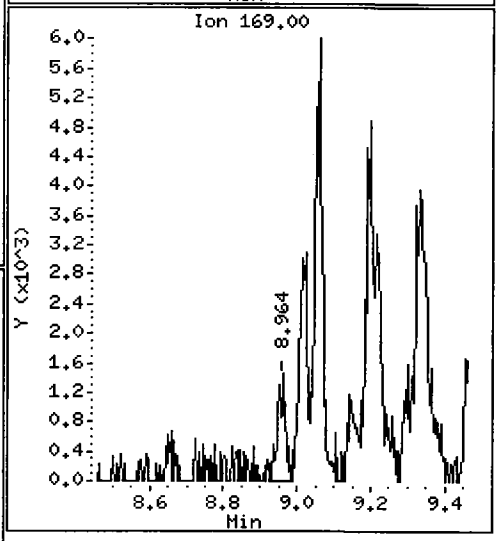
10 Dibenzofuran

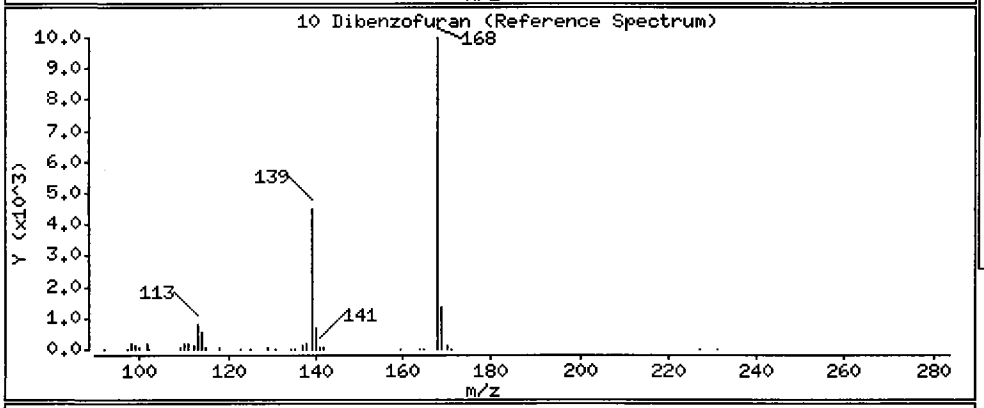
Concentration: 3.606 ug/kg

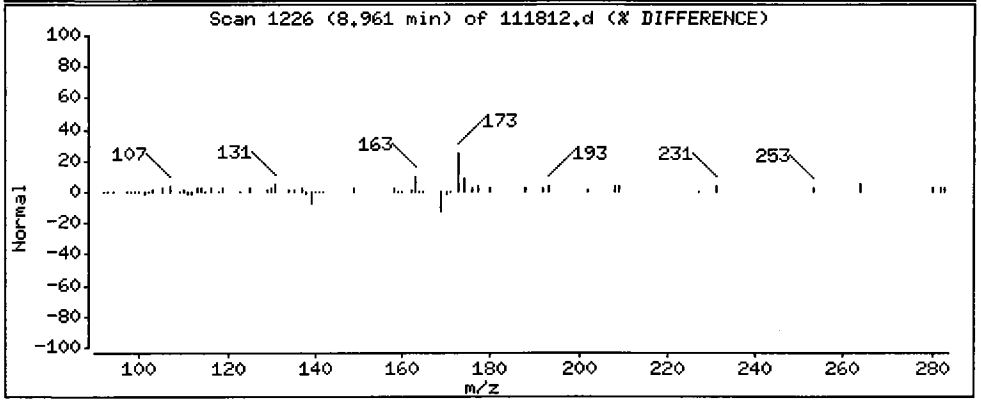












Data File: /chem3/nt2.i/20091118.b/111812.d

Date : 18-NOV-2009 15:07

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A

Volume Injected (uL): 1.0

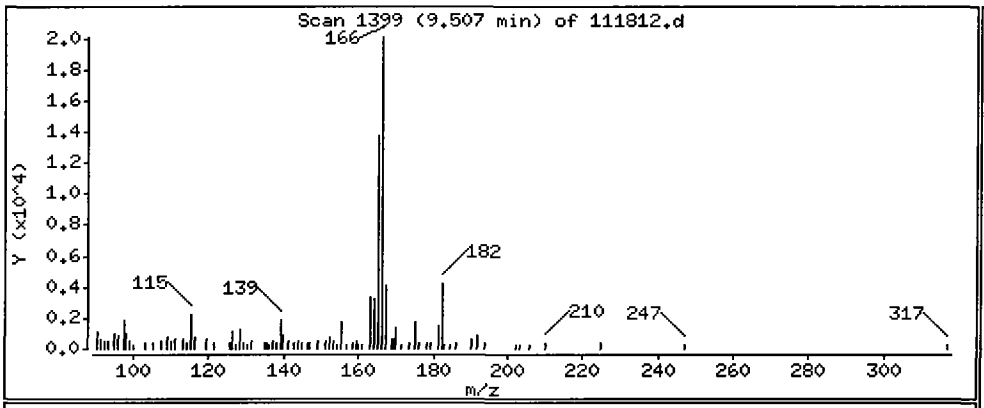
Operator: VTS

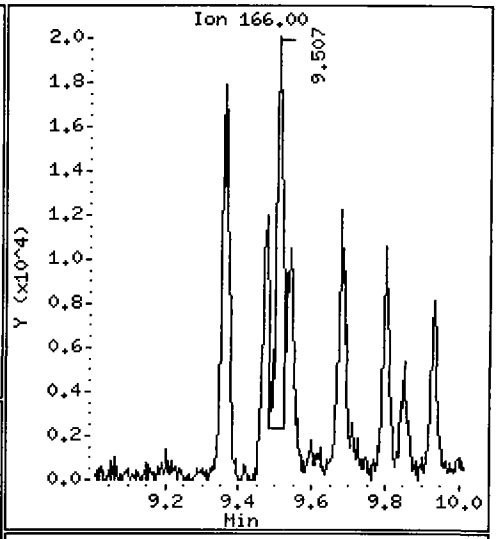
Column phase: ZB-5msi

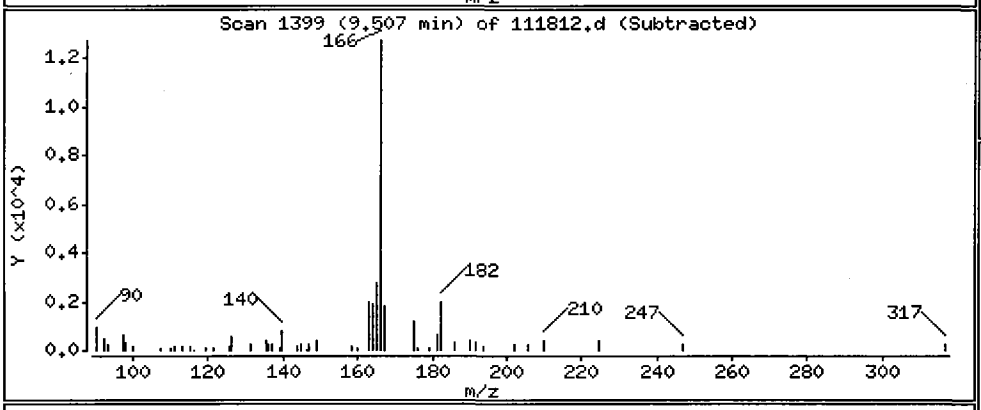
Column diameter: 0.25

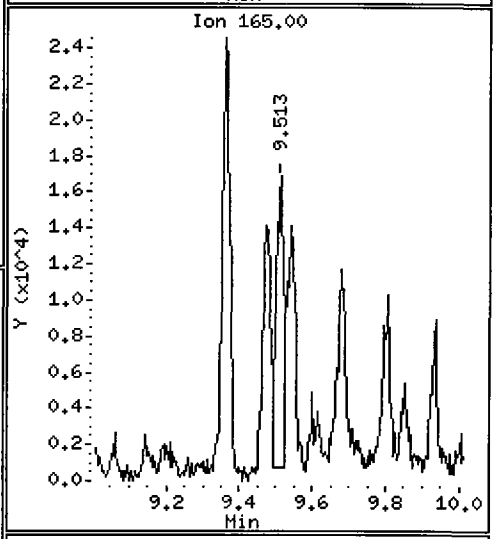
11 Fluorene

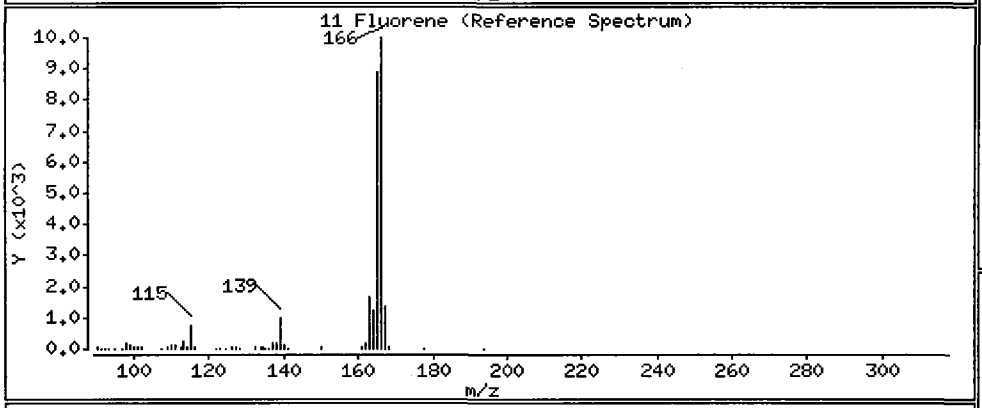
Concentration: 8.057 ug/kg

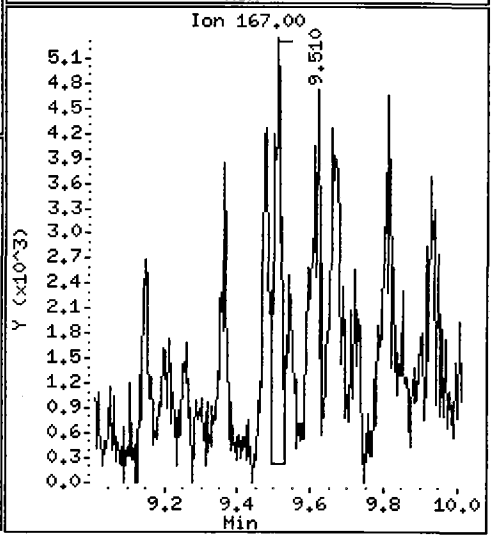


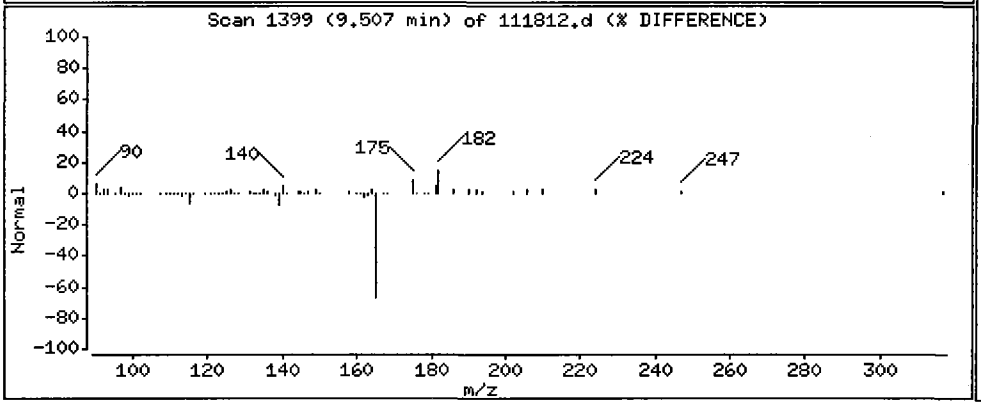












Data File: /chem3/nt2.i/20091118.b/111812.d

Date : 18-NOV-2009 15:07

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A

Volume Injected (uL): 1.0

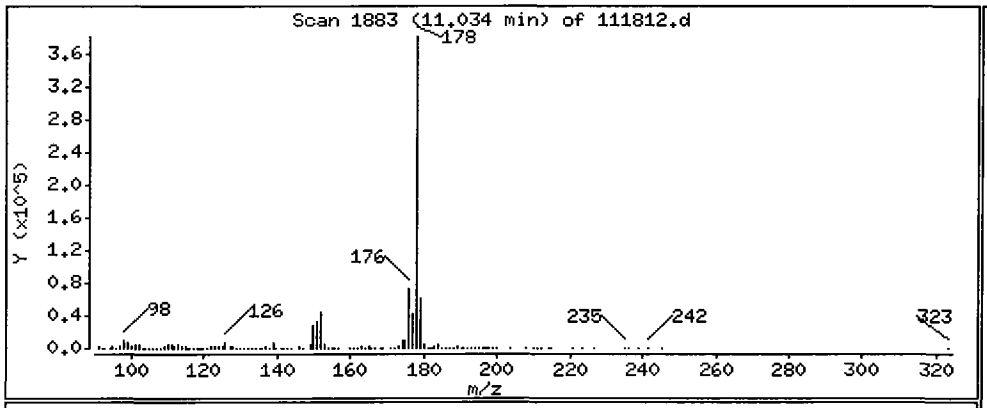
Operator: VTS

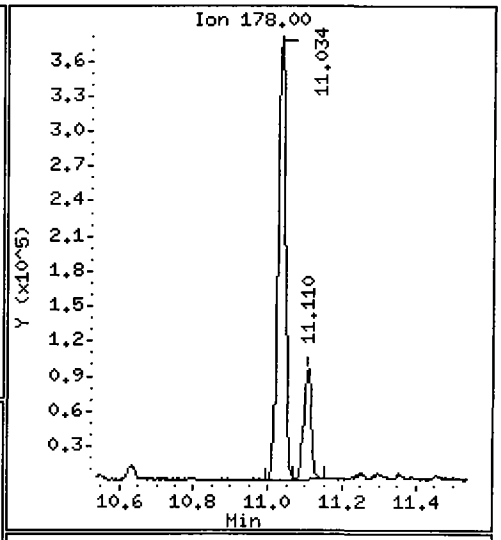
Column phase: ZB-5msi

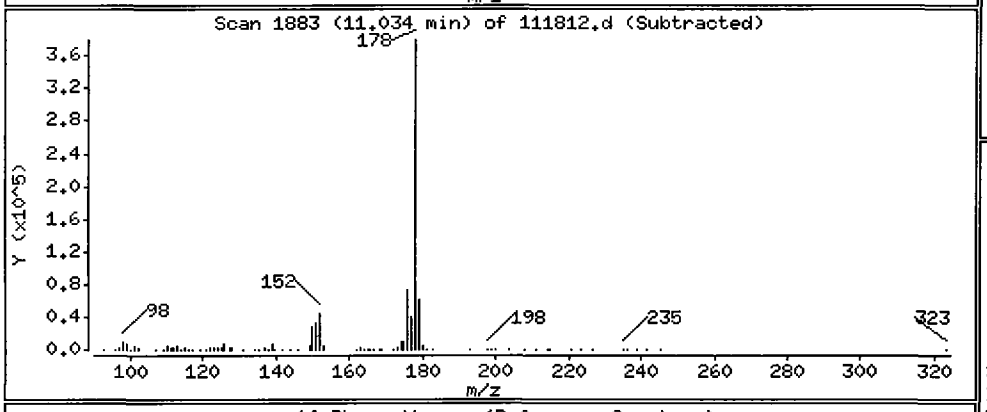
Column diameter: 0.25

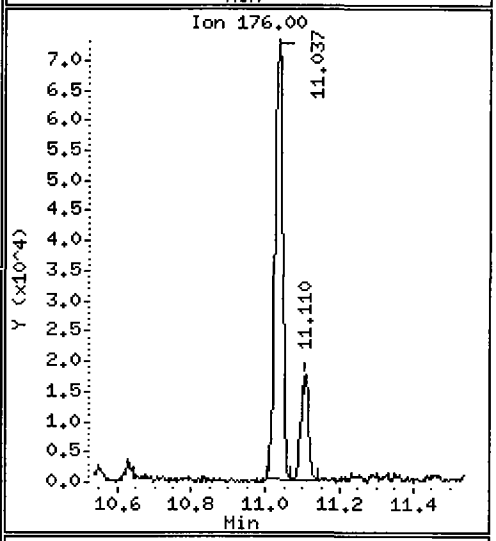
16 Phenanthrene

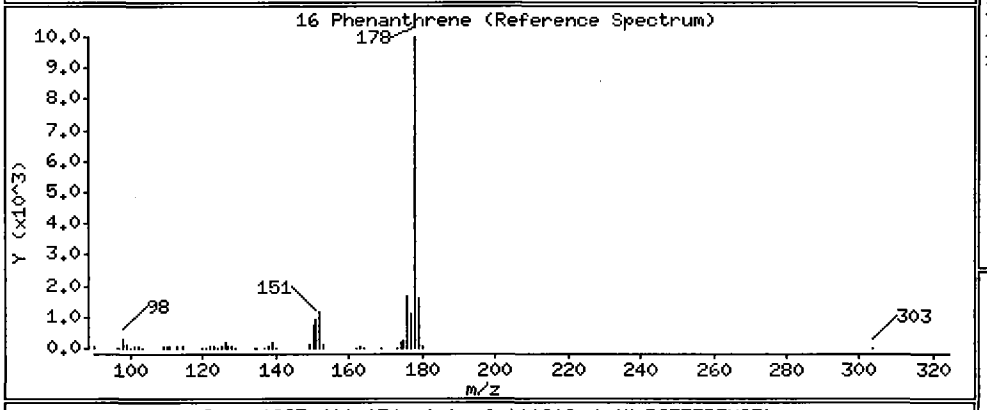
Concentration: 151.1 ug/kg

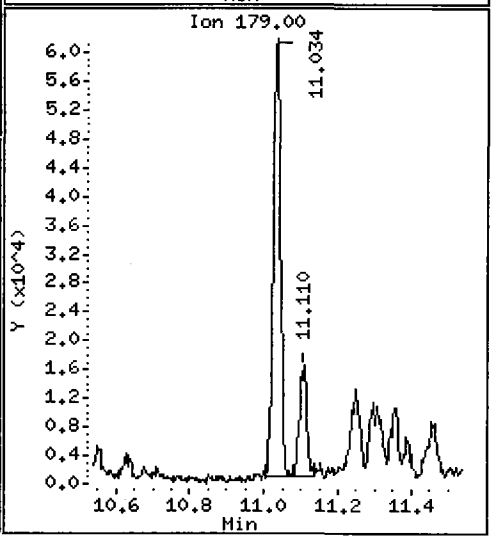


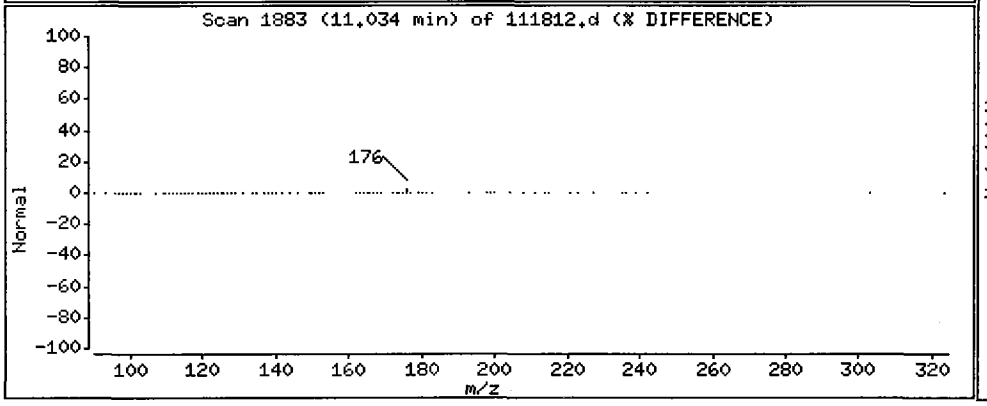












Data File: /chem3/nt2.i/20091118.b/111812.d

Date : 18-NOV-2009 15:07

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A

Volume Injected (uL): 1.0

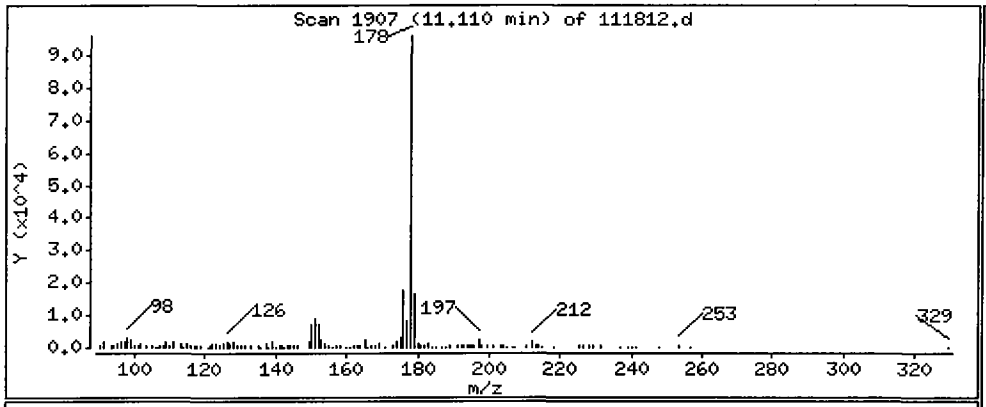
Operator: VTS

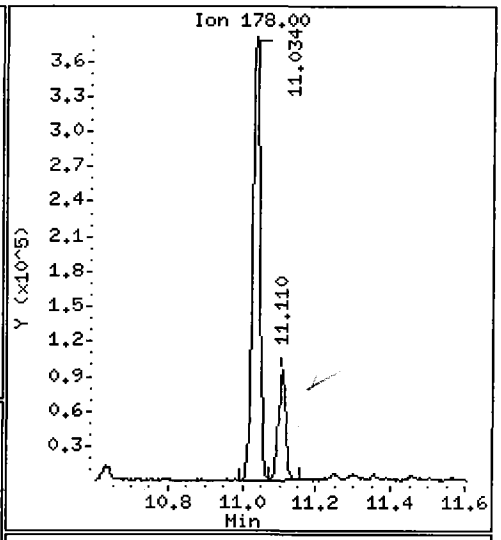
Column phase: ZB-5msi

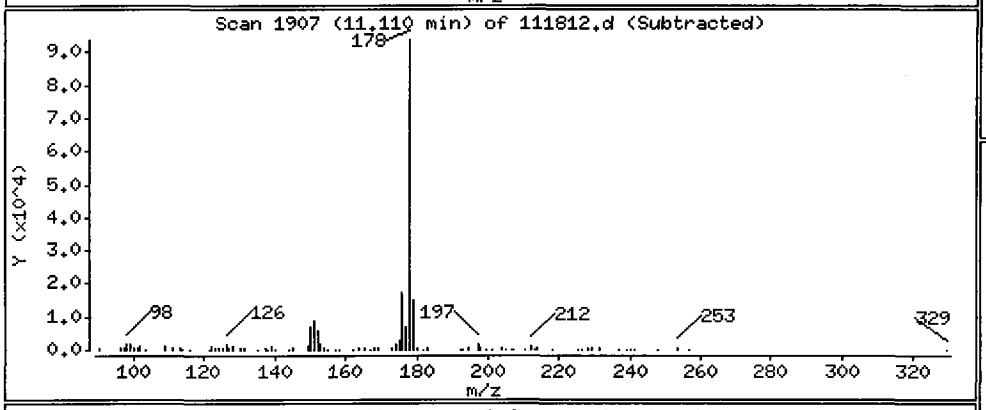
Column diameter: 0.25

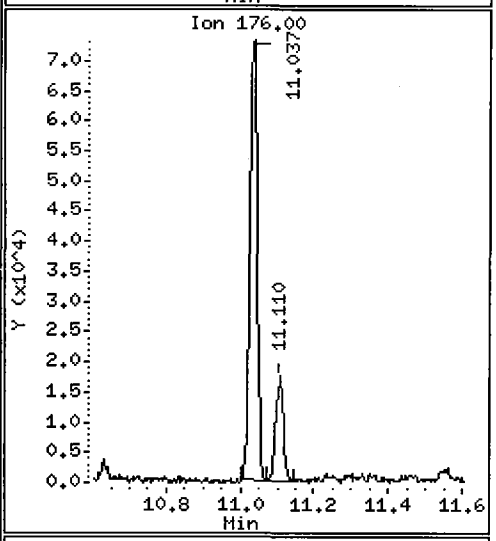
17 Anthracene

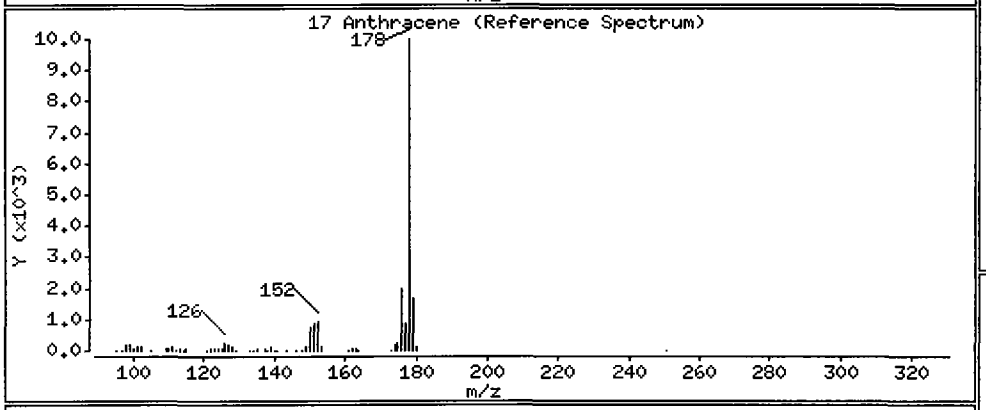
Concentration: 37.33 ug/kg

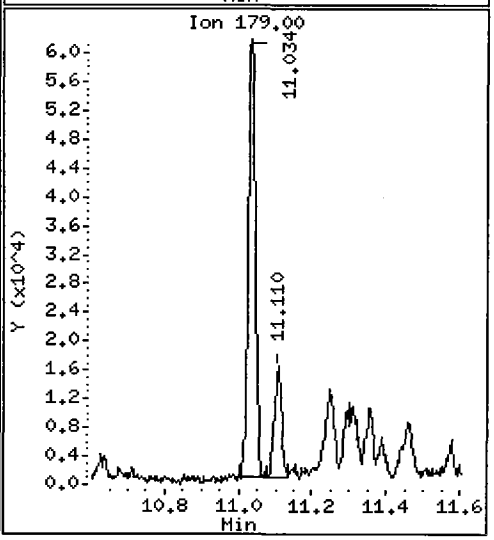


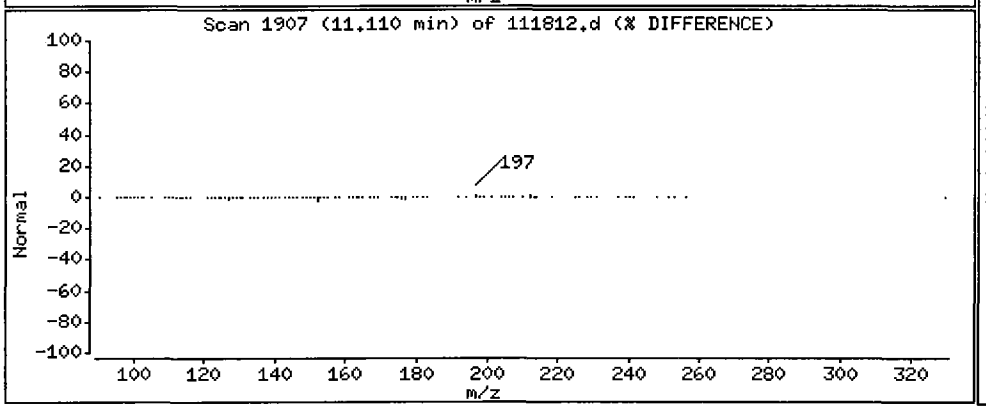












Data File: /chem3/nt2.i/20091118.b/111812.d

Date : 18-NOV-2009 15:07

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A

Volume Injected (uL): 1.0

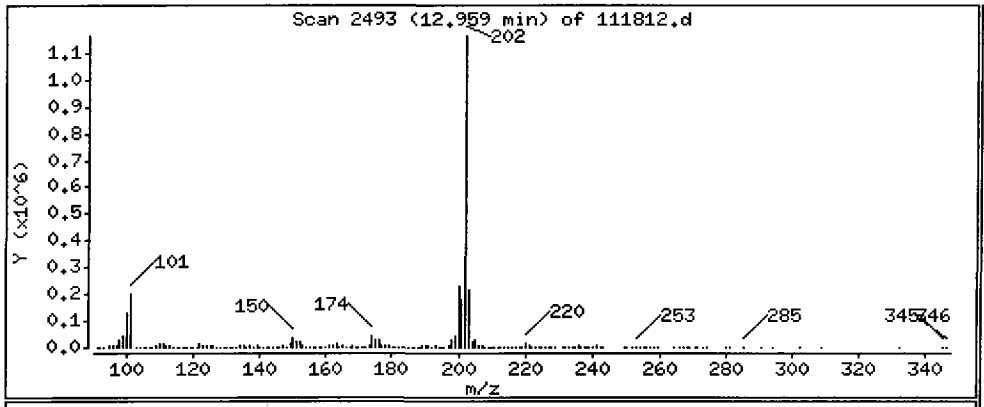
Operator: VTS

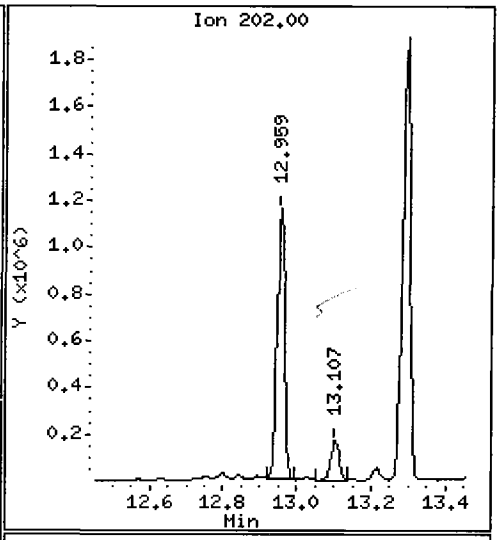
Column phase: ZB-5msi

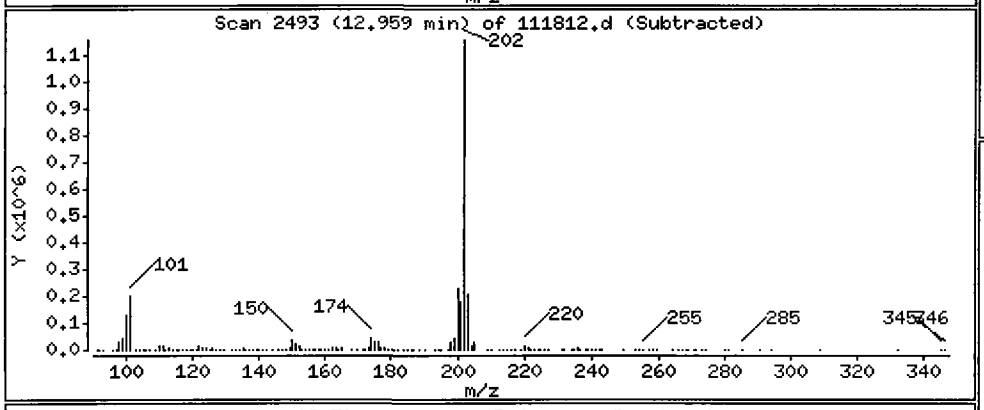
Column diameter: 0.25

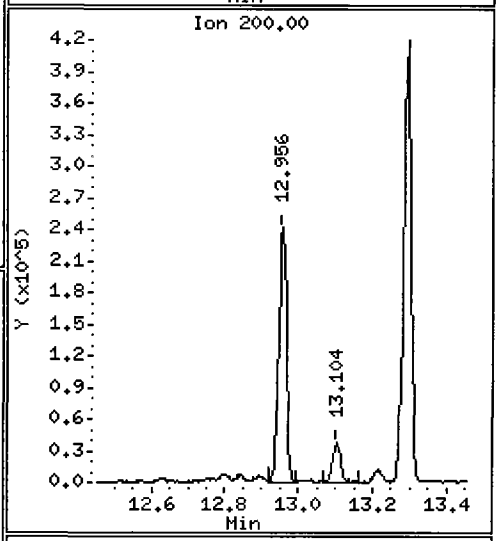
19 Fluoranthene

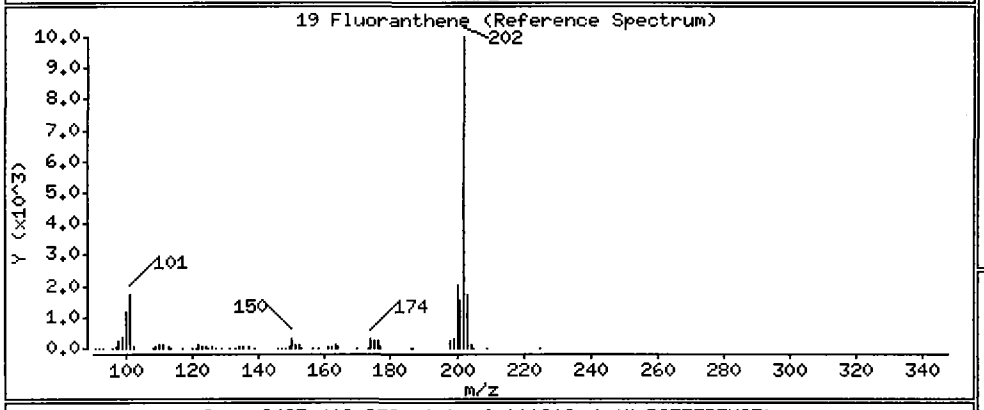
Concentration: 454.5 ug/kg

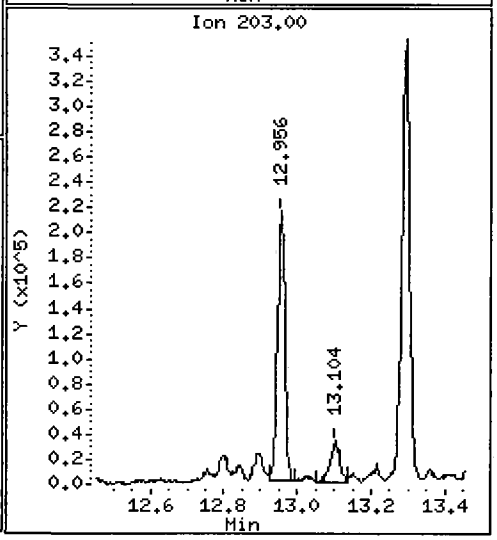


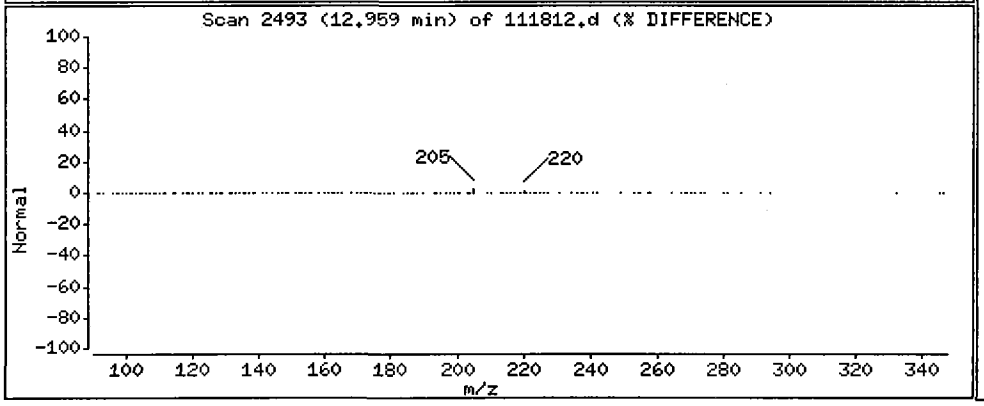












Data File: /chem3/nt2.i/20091118.b/111812.d

Date : 18-NOV-2009 15:07

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A

Volume Injected (uL): 1.0

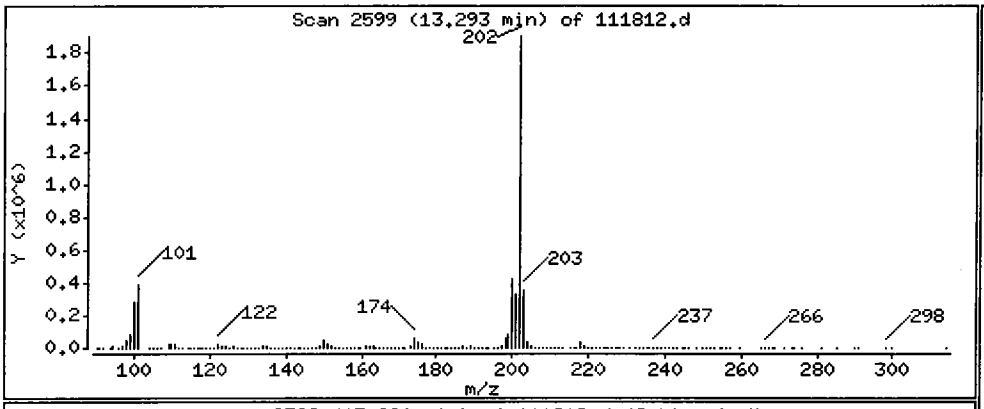
Operator: VTS

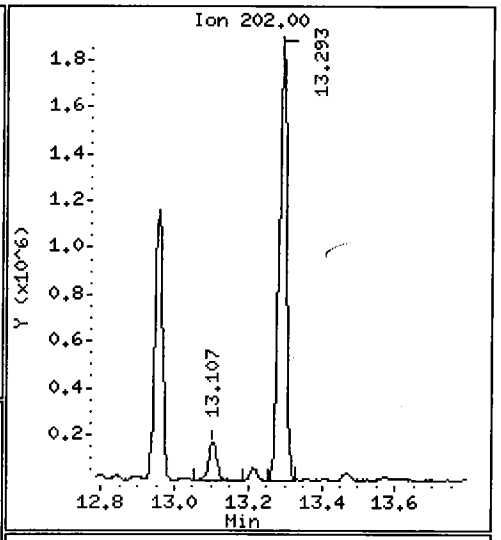
Column phase: ZB-5msi

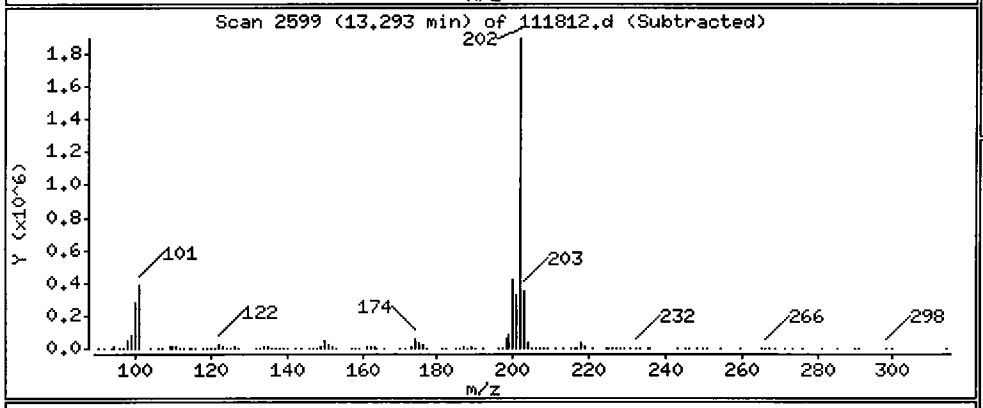
Column diameter: 0.25

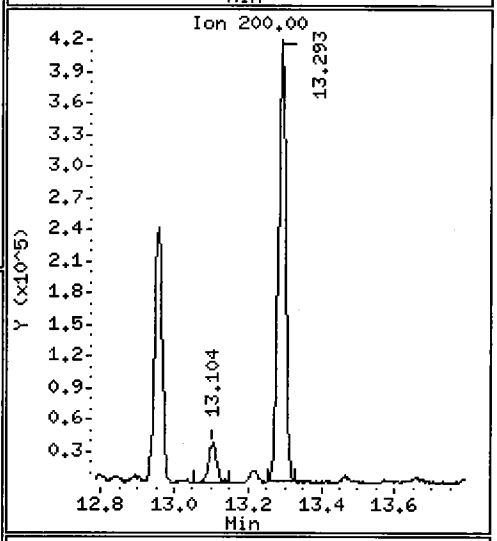
20 Pyrene

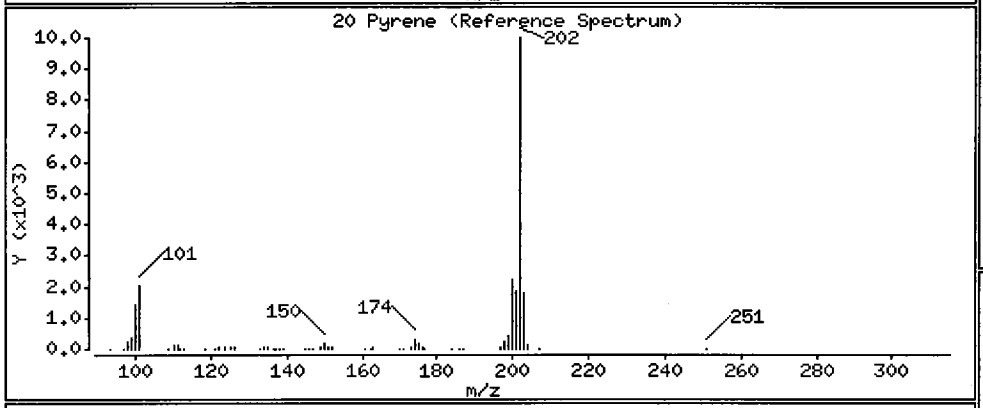
Concentration: 656.5 ug/kg

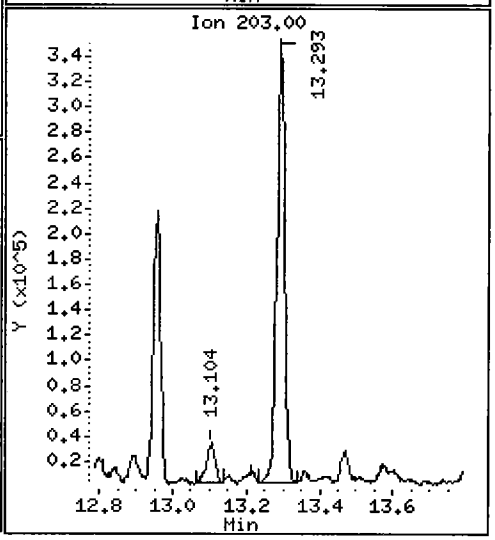


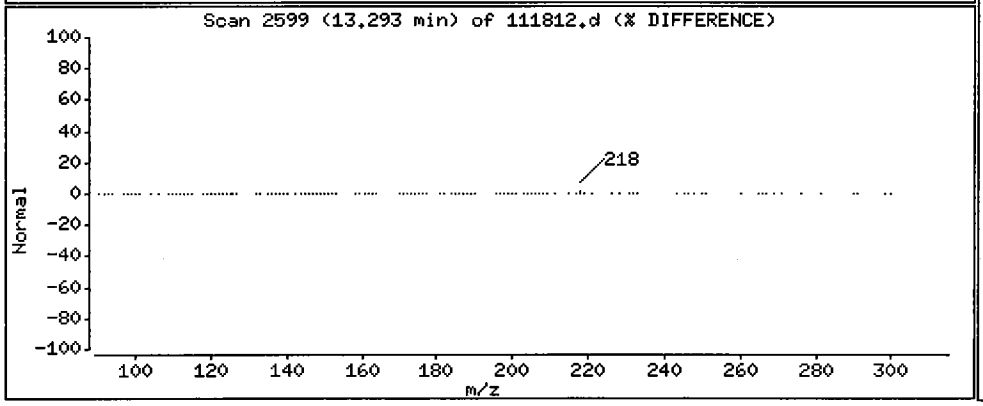












Data File: /chem3/nt2.i/20091118.b/111812.d

Date : 18-NOV-2009 15:07

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A

Volume Injected (uL): 1.0

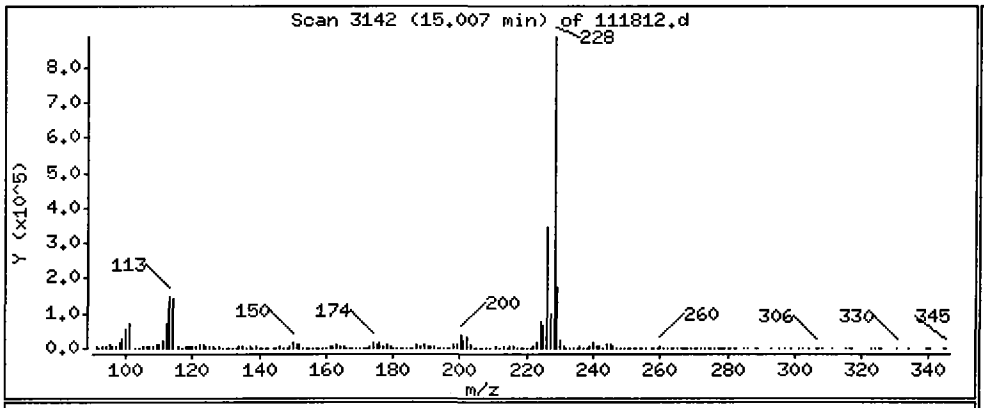
Operator: VTS

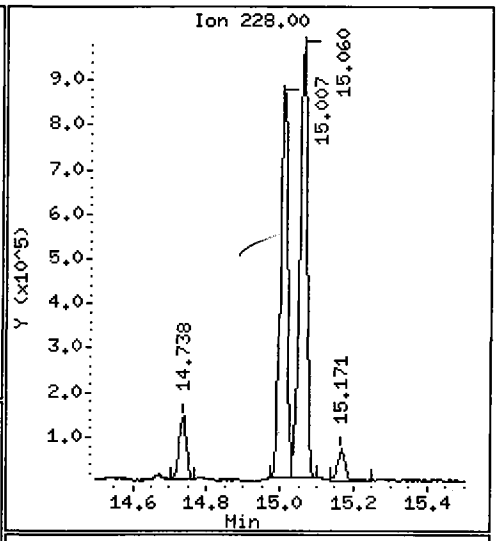
Column phase: ZB-5msi

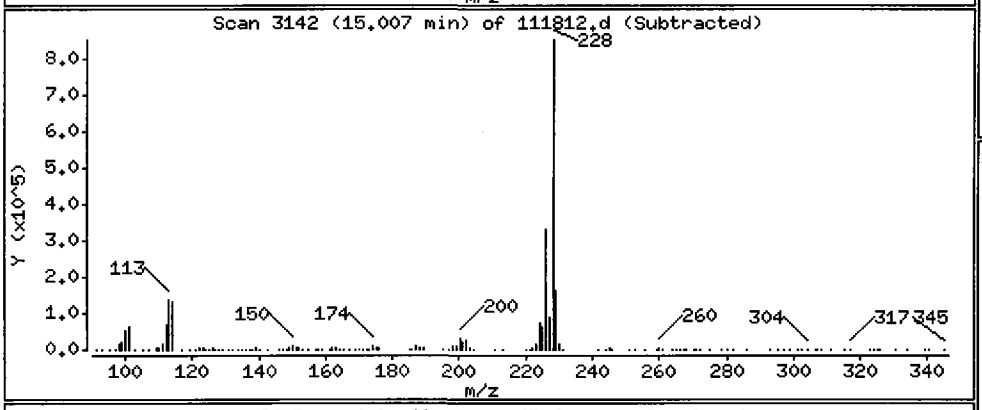
Column diameter: 0.25

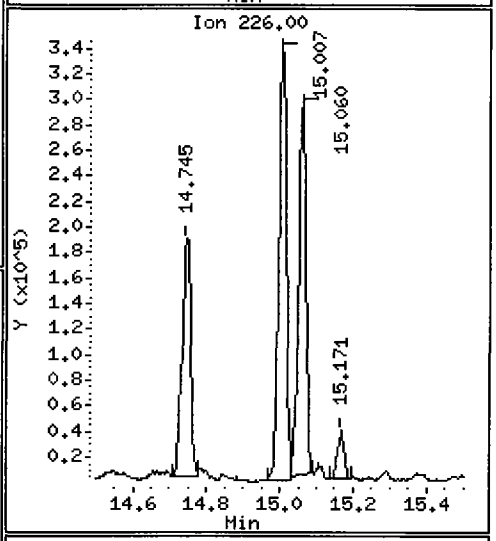
22 Benzo(a)anthracene

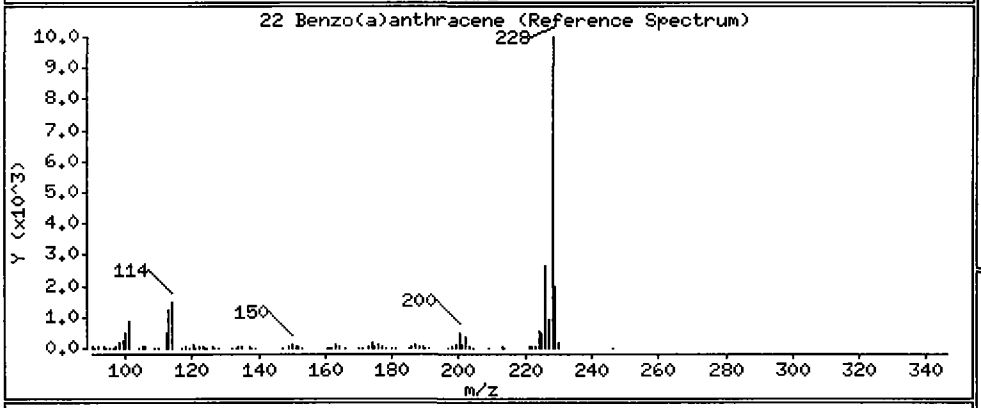
Concentration: 326.2 ug/kg

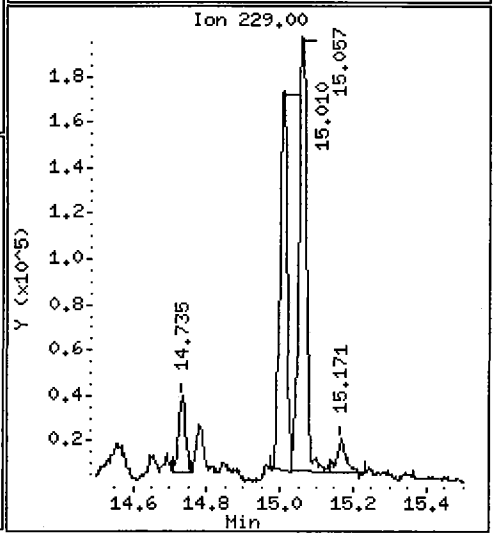


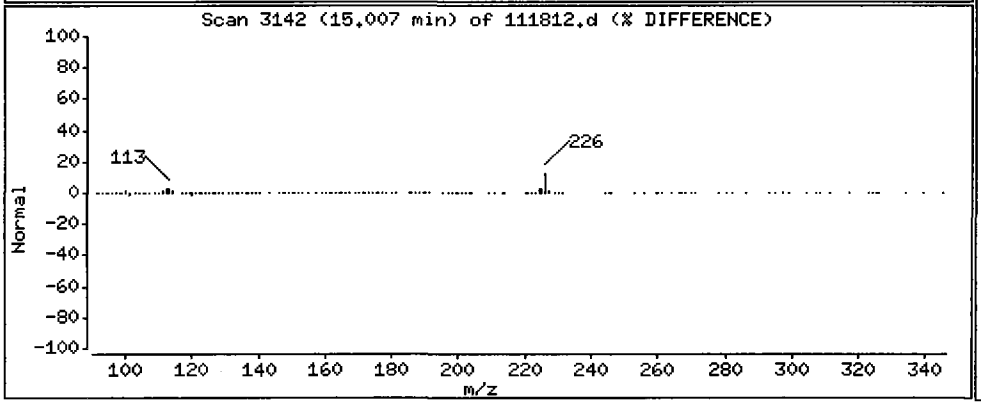












Data File: /chem3/nt2.i/20091118.b/111812.d

Date : 18-NOV-2009 15:07

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A

Volume Injected (uL): 1.0

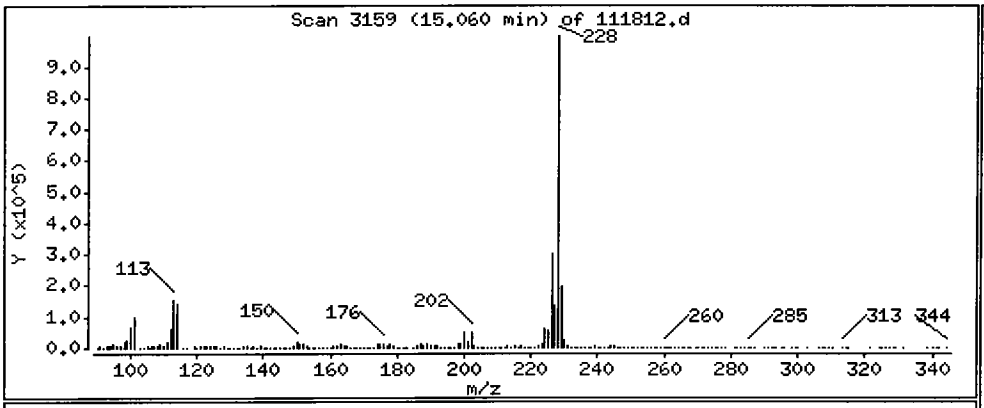
Operator: VTS

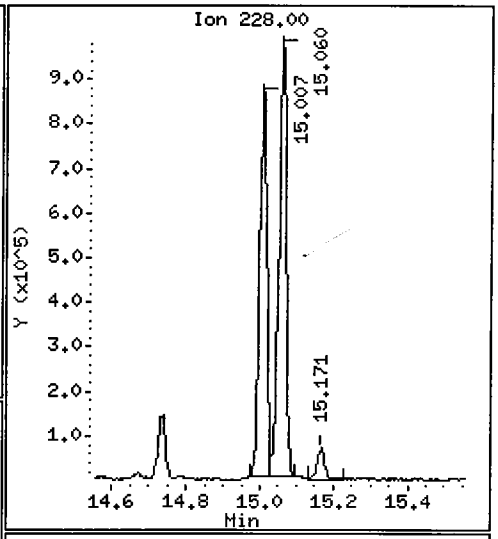
Column phase: ZB-5msi

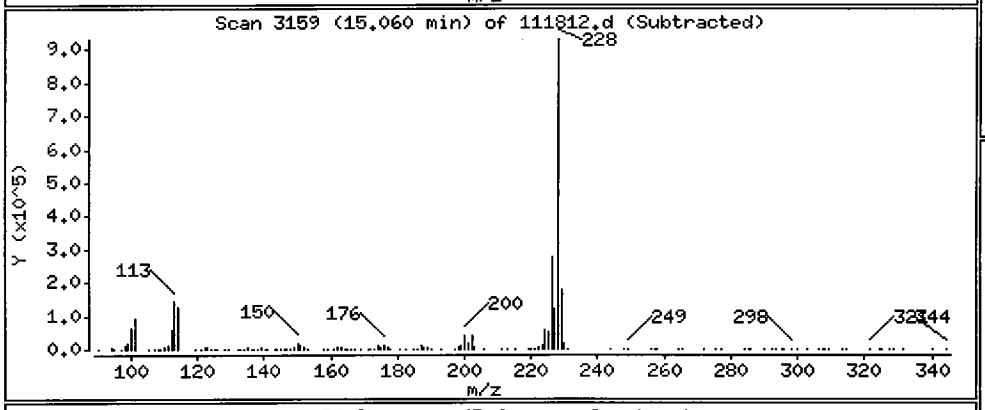
Column diameter: 0.25

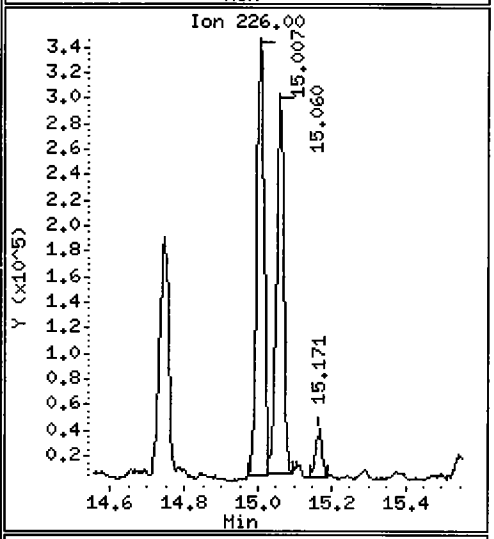
24 Chrysene

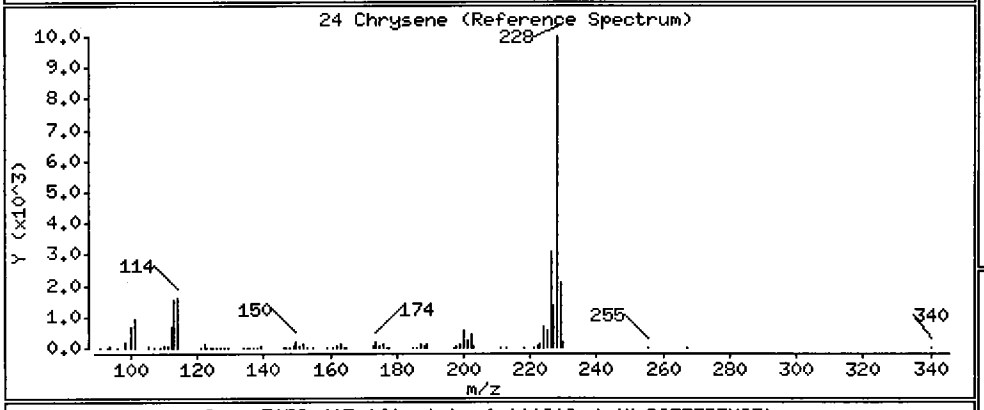
Concentration: 376.9 ug/kg

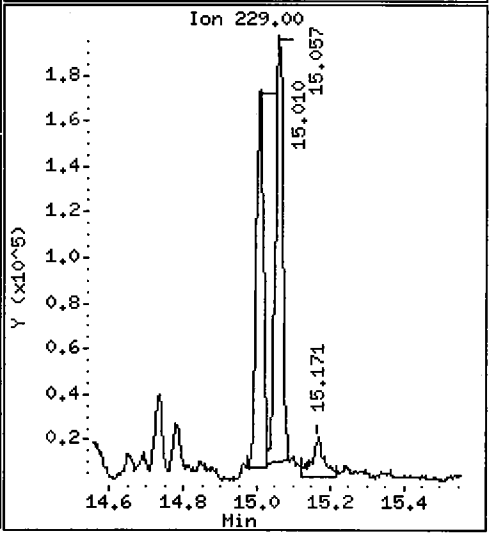


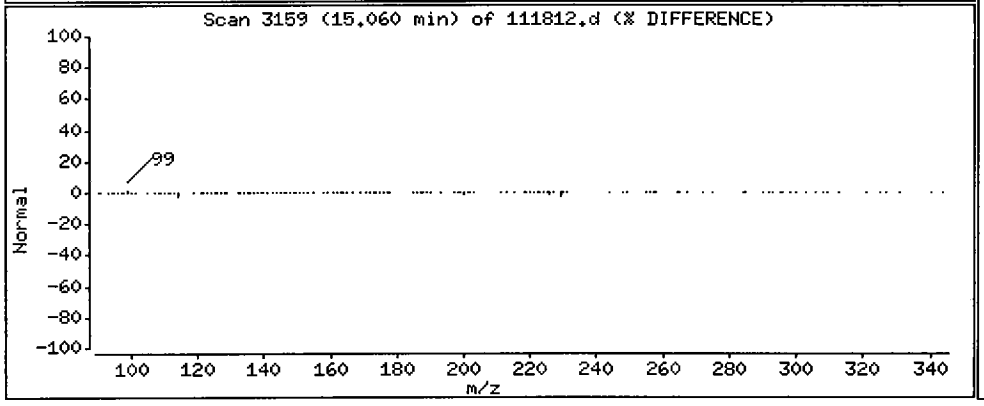












Data File: /chem3/nt2.i/20091118.b/111812.d

Date : 18-NOV-2009 15:07

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A

Volume Injected (uL): 1.0

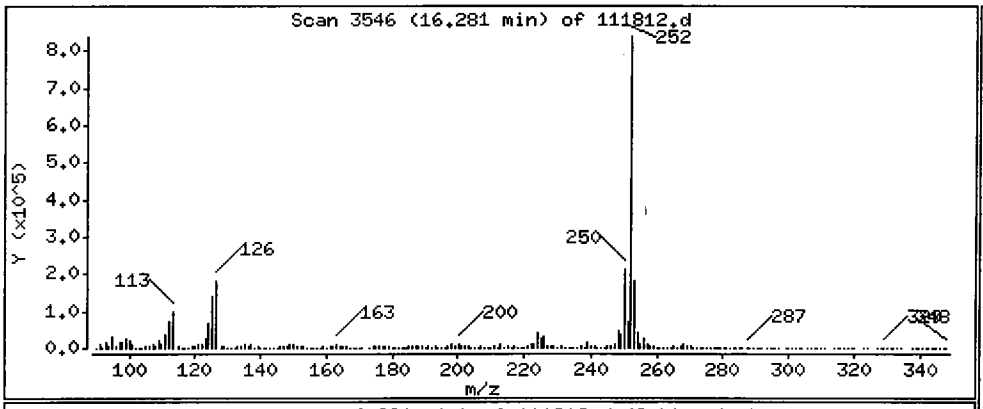
Operator: VTS

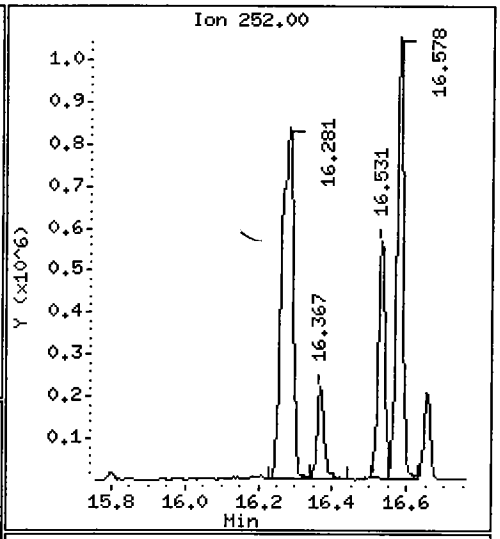
Column phase: ZB-5msi

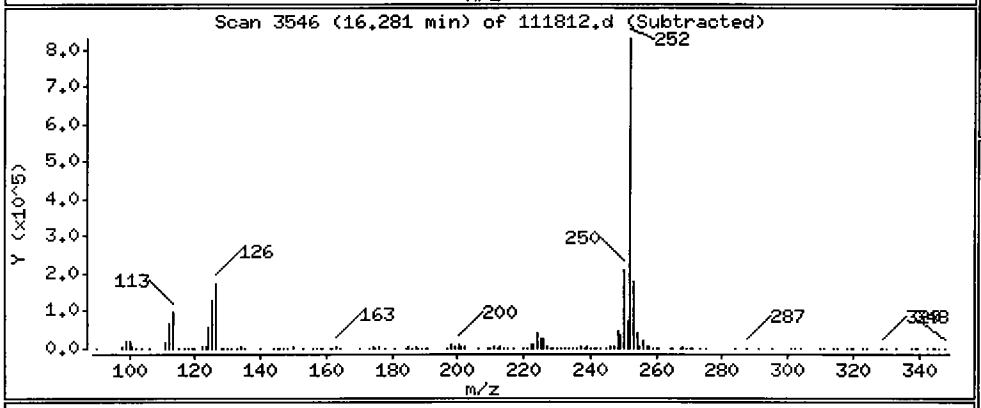
Column diameter: 0.25

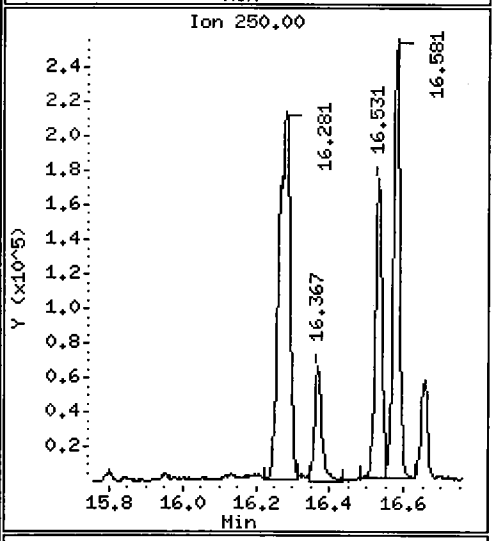
28 Benzo(b)fluoranthene

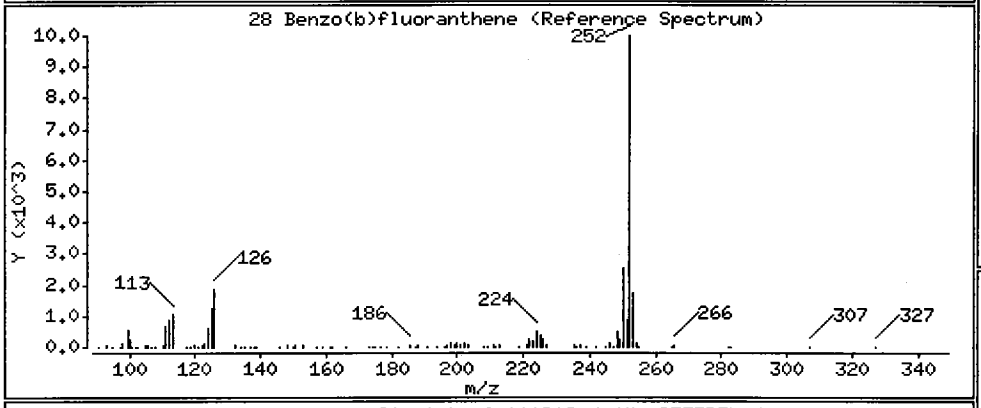
Concentration: 517.0 ug/kg

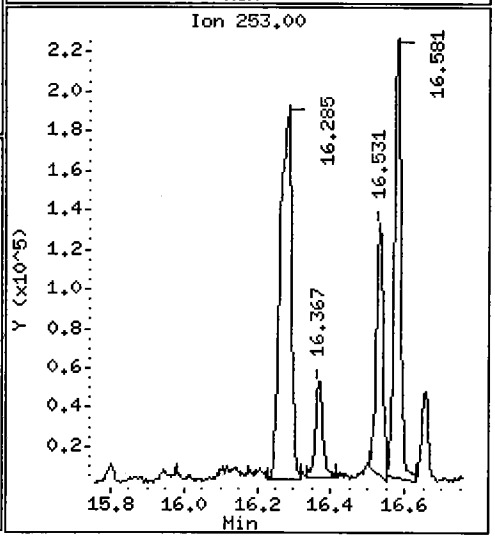


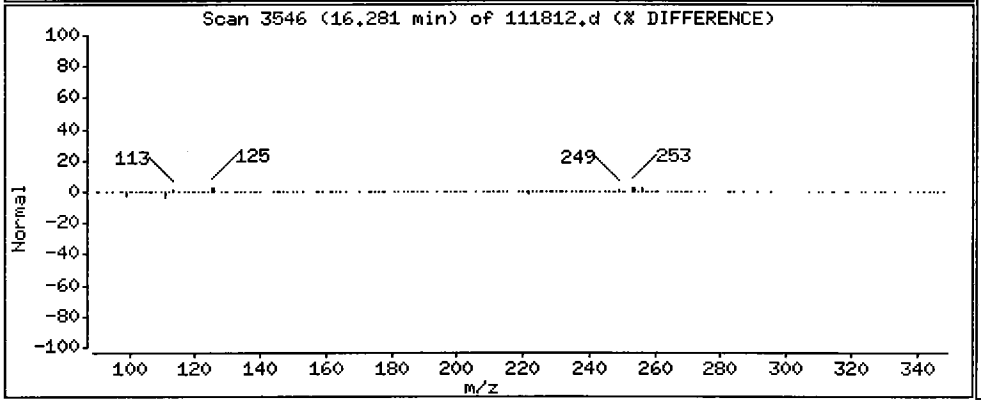












Data File: /chem3/nt2.i/20091118.b/111812.d

Date : 18-NOV-2009 15:07

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A

Volume Injected (uL): 1.0

Operator: VTS

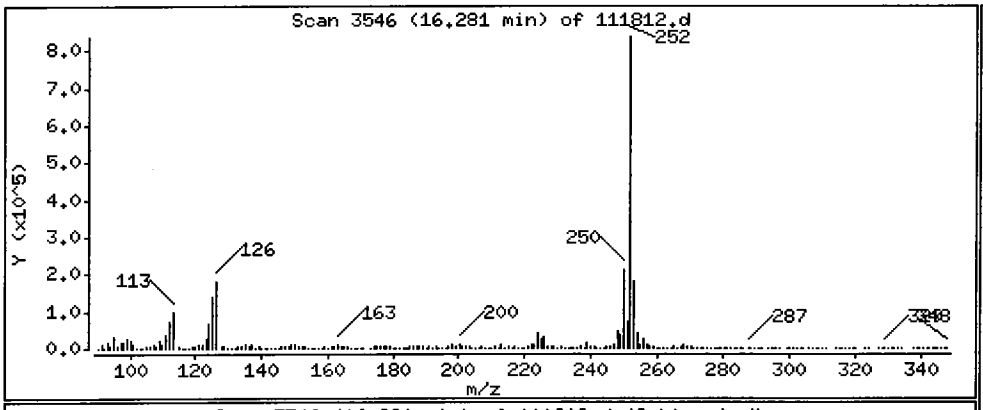
Column phase: ZB-5msi

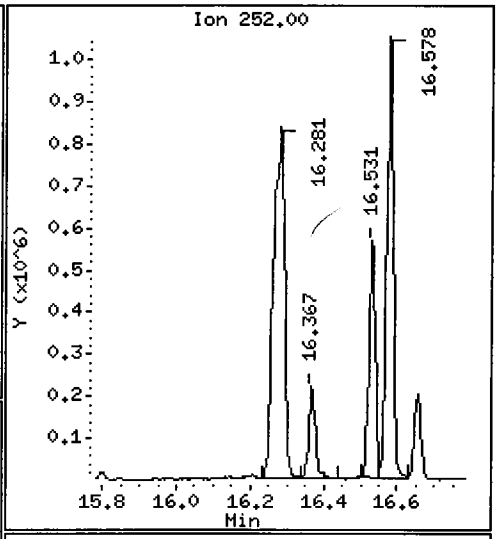
Column diameter: 0.25

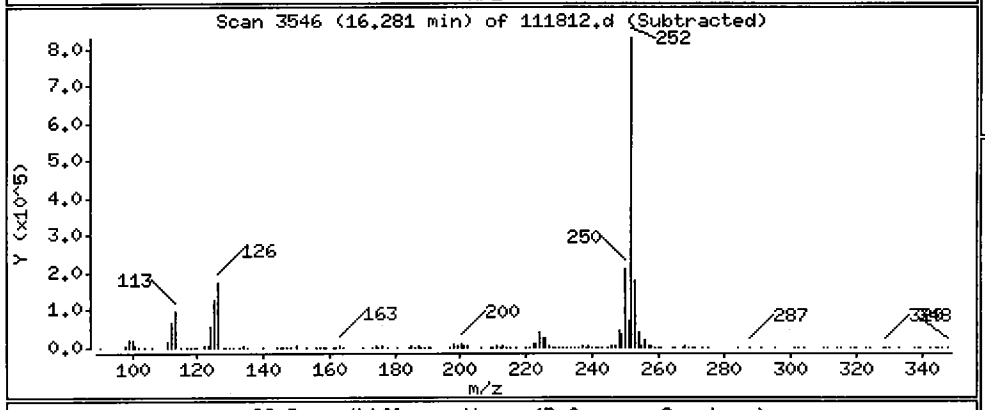
1/2

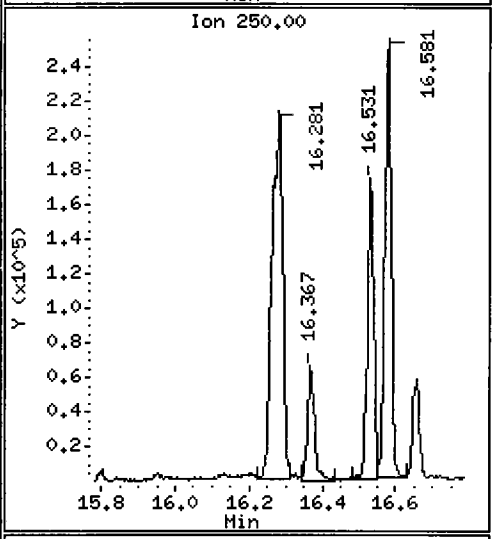
29 Benzo(k)fluoranthene

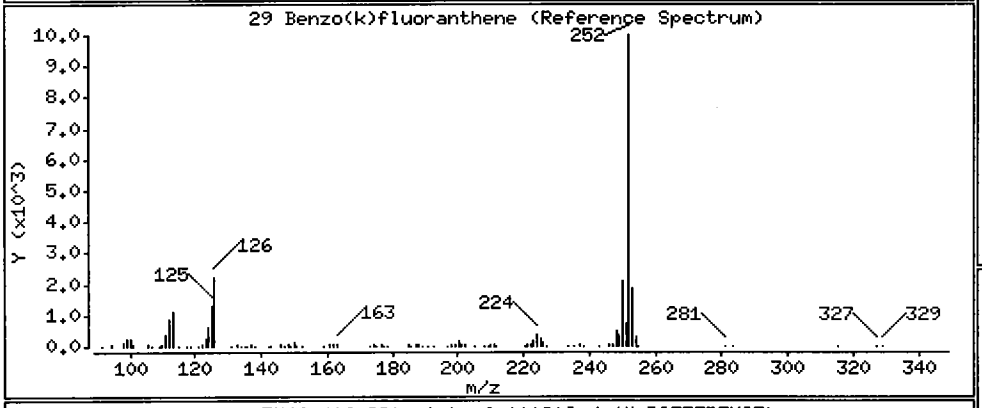
Concentration: 462.5 ug/kg

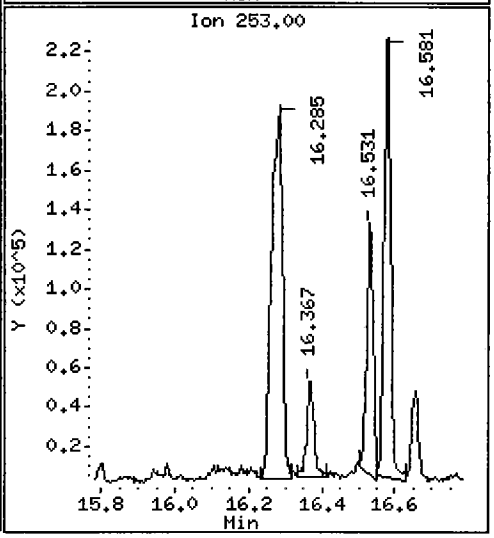


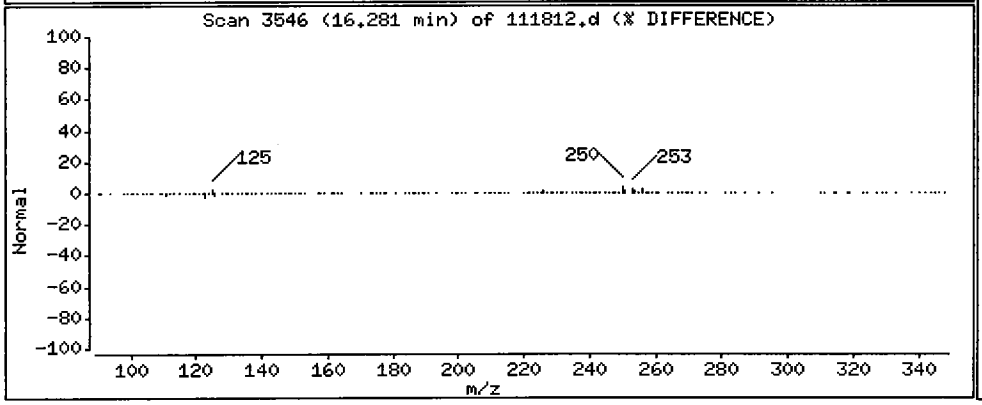












Data File: /chem3/nt2.i/20091118.b/111812.d

Date : 18-NOV-2009 15:07

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A

Volume Injected (uL): 1.0

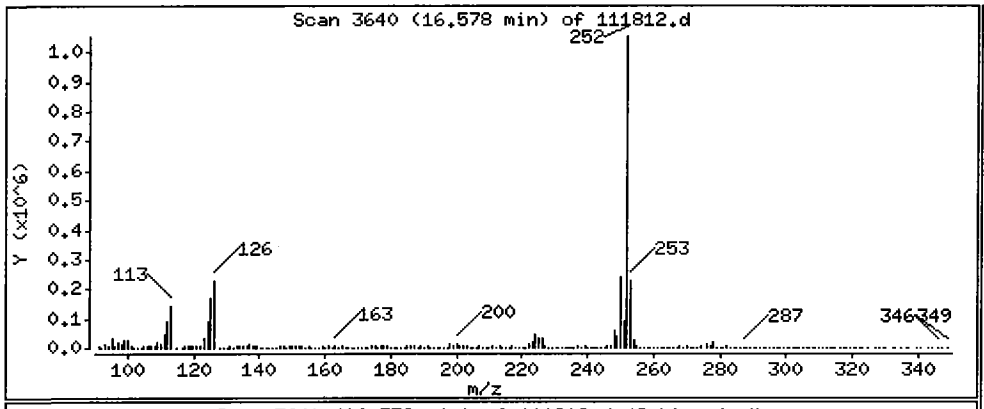
Operator: VTS

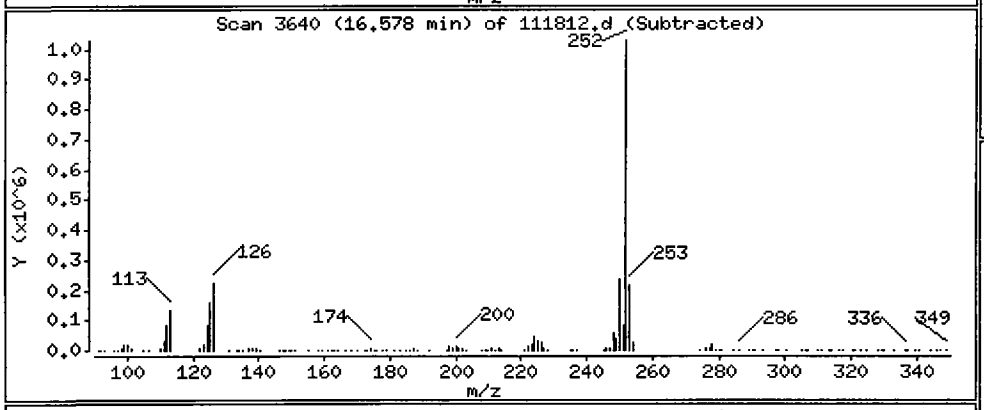
Column phase: ZB-5msi

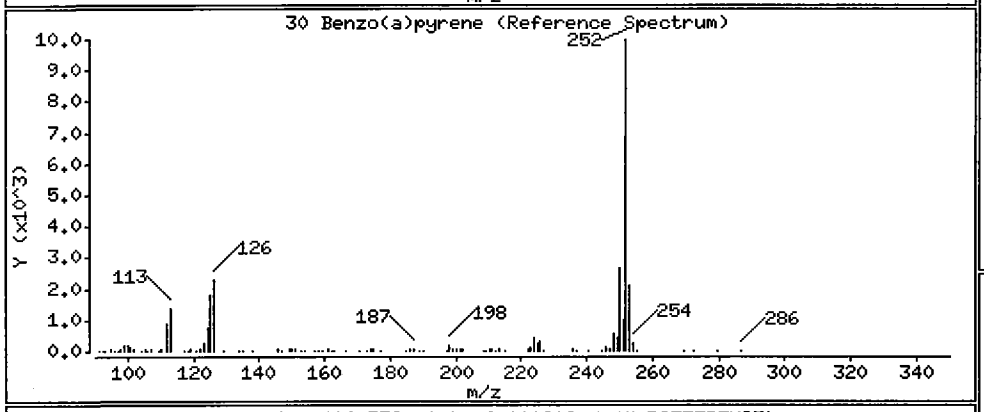
Column diameter: 0.25

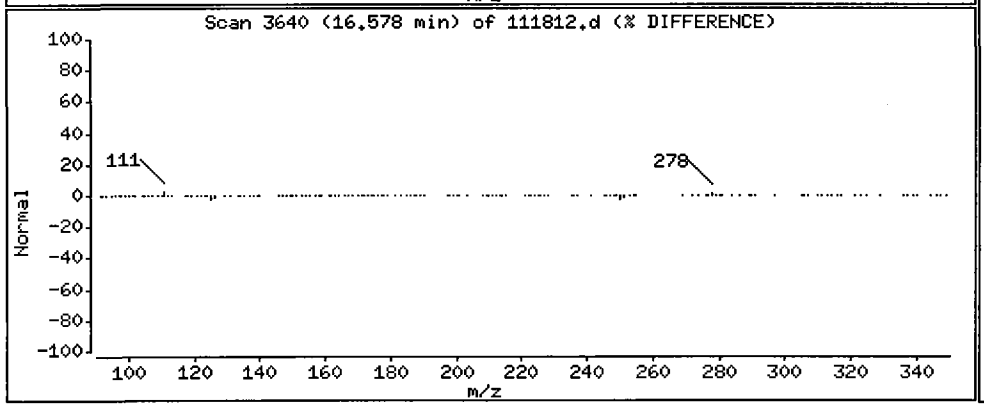
30 Benzo(a)pyrene

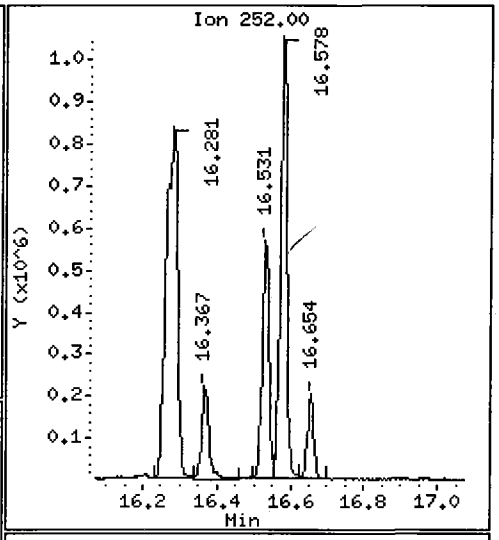
Concentration: 438.8 ug/kg

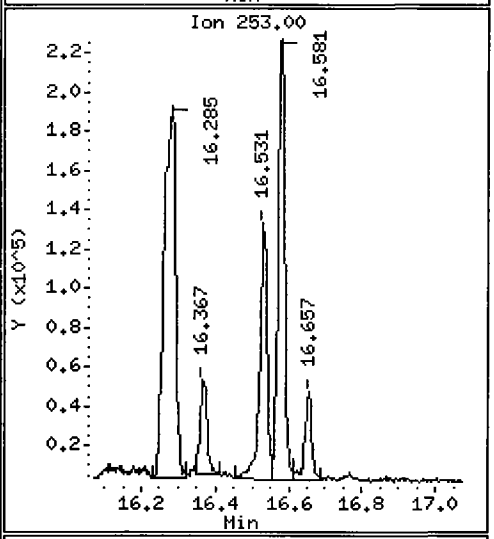


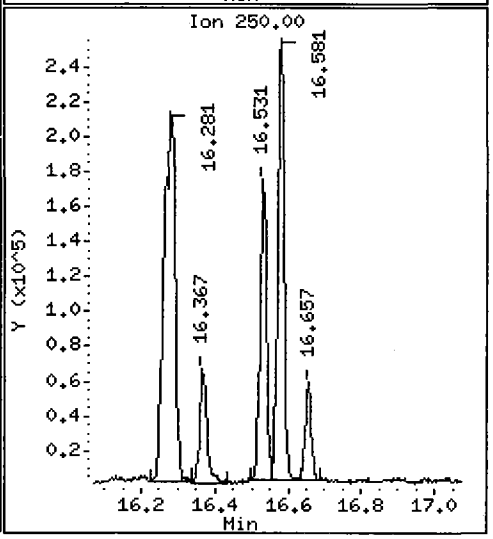












Data File: /chem3/nt2.i/20091118.b/111812.d

Date : 18-NOV-2009 15:07

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A

Volume Injected (uL): 1.0

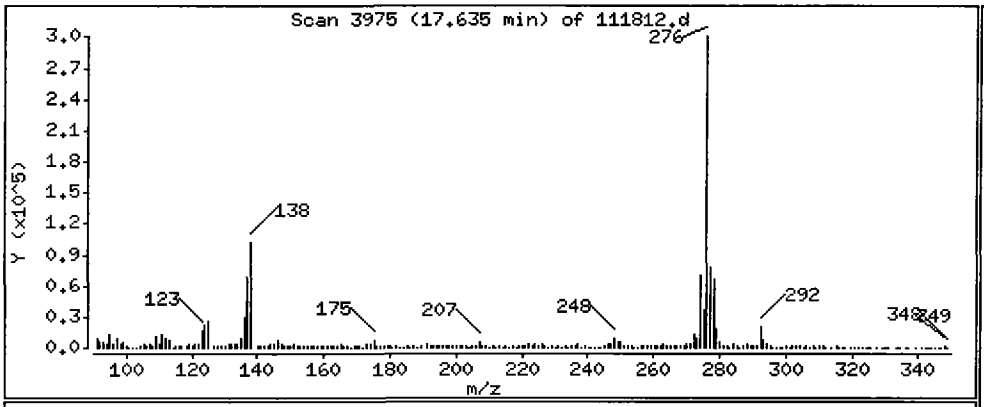
Operator: VTS

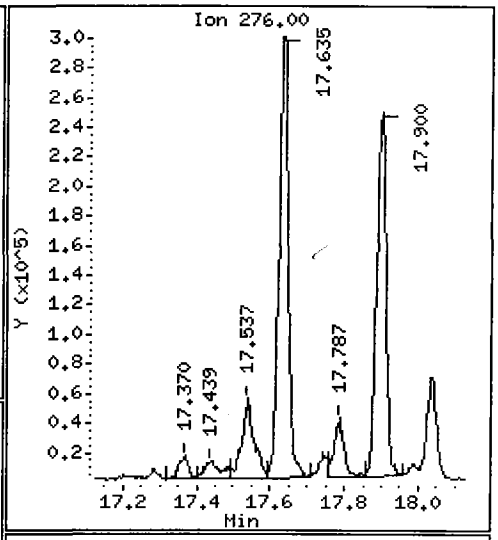
Column phase: ZB-5msi

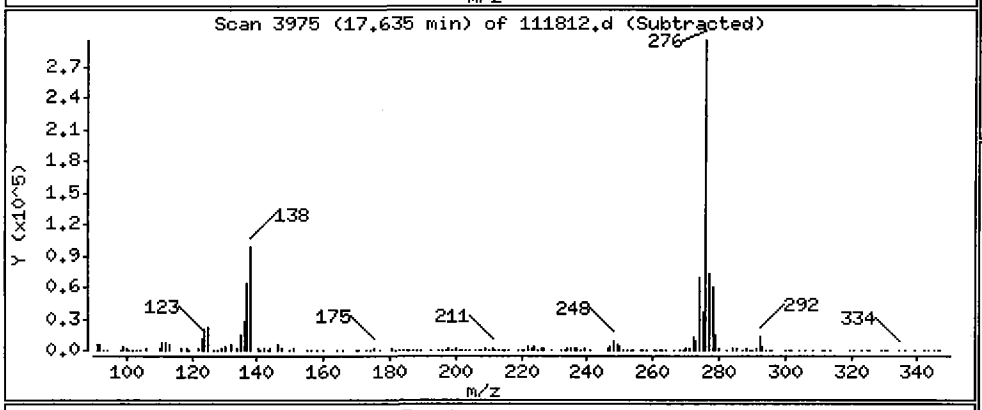
Column diameter: 0.25

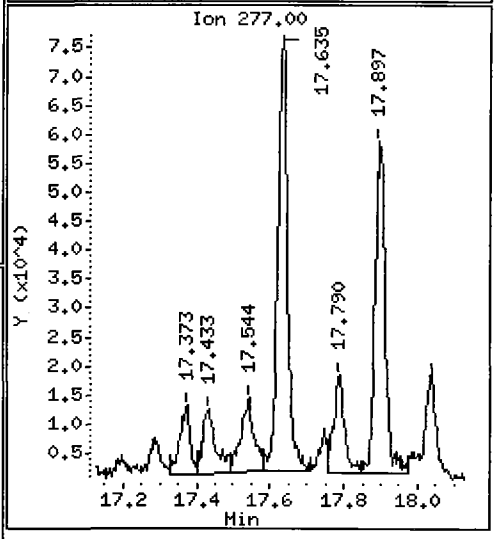
33 Indeno(1,2,3-cd)pyrene

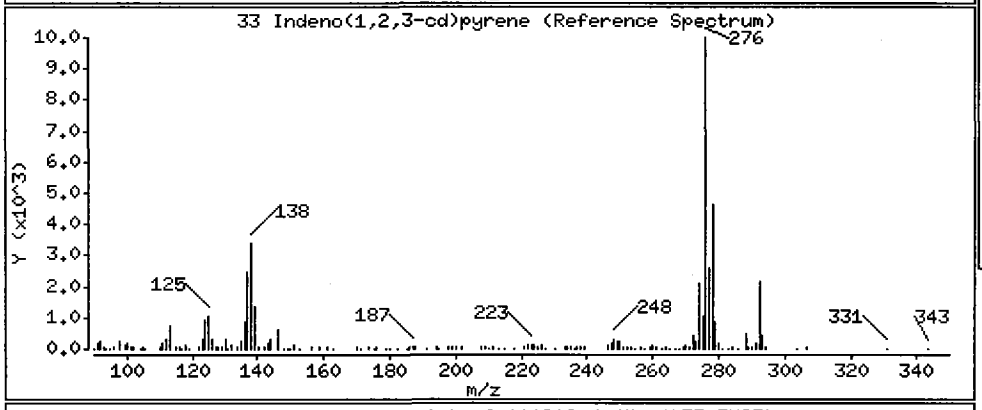
Concentration: 179.2 ug/kg

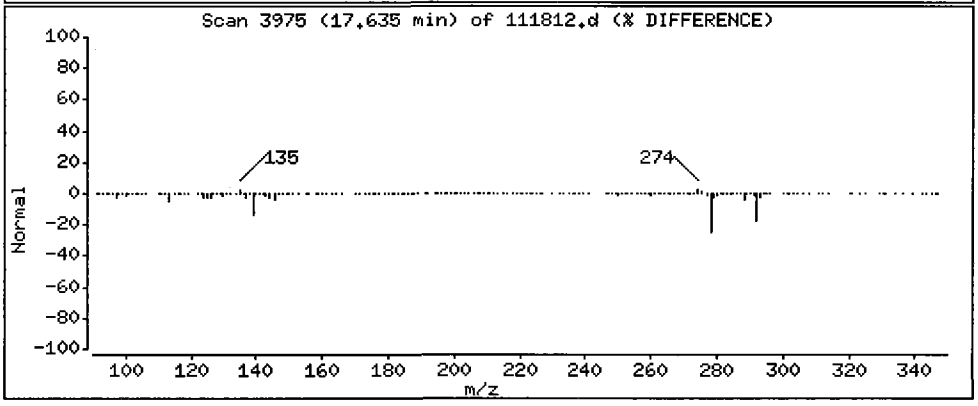












Data File: /chem3/nt2.i/20091118.b/111812.d

Date : 18-NOV-2009 15:07

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A

Volume Injected (uL): 1.0

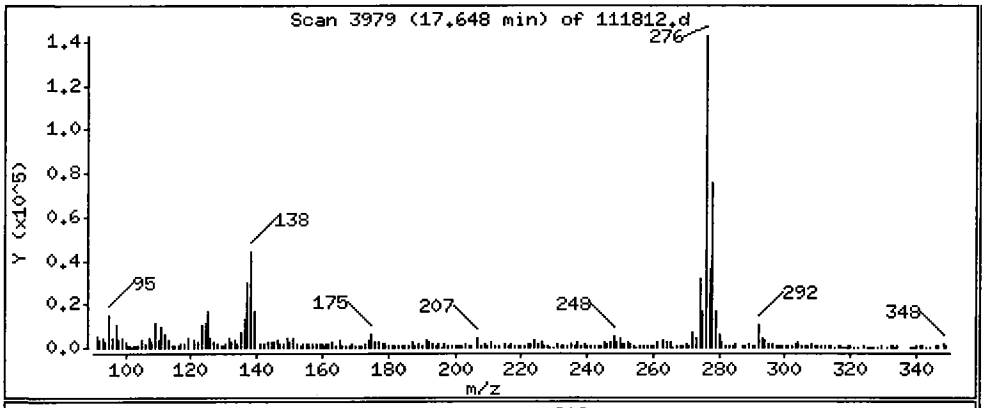
Operator: VTS

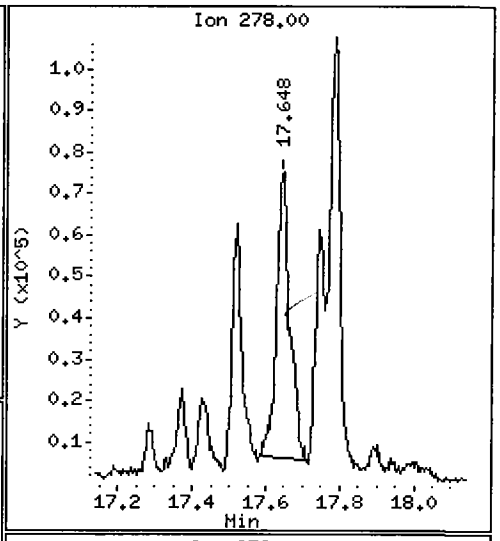
Column phase: ZB-5msi

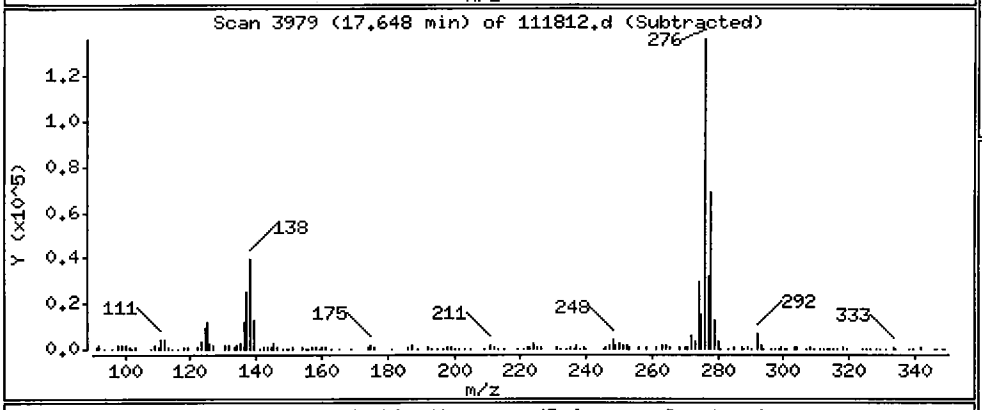
Column diameter: 0.25

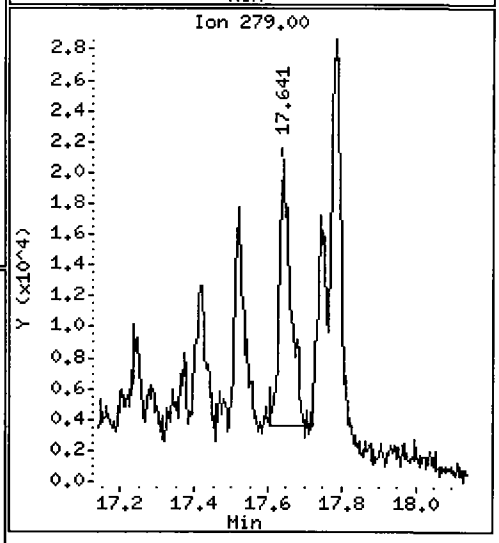
34 Dibenz(a,h)anthracene

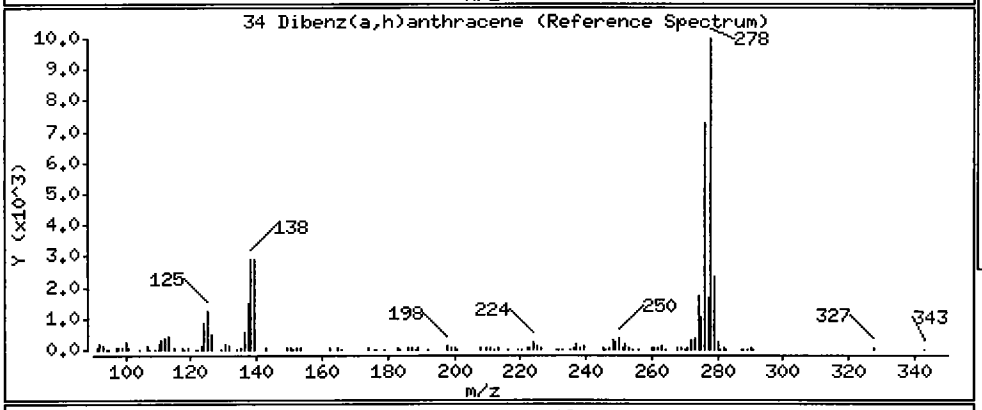
Concentration: 76.45 ug/kg

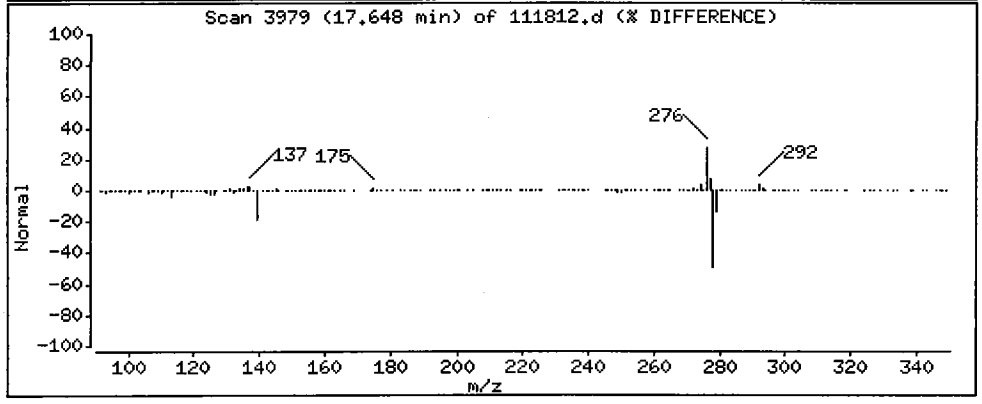












Data File: /chem3/nt2.i/20091118.b/111812.d

Date : 18-NOV-2009 15:07

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A

Volume Injected (uL): 1.0

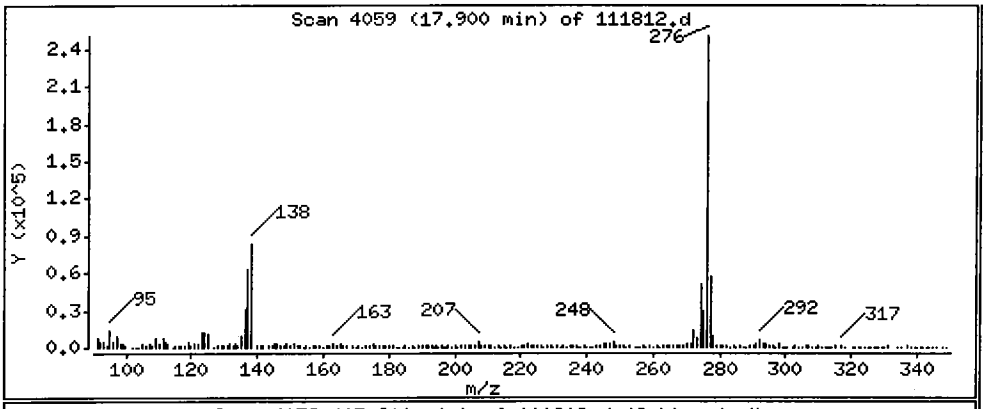
Operator: VTS

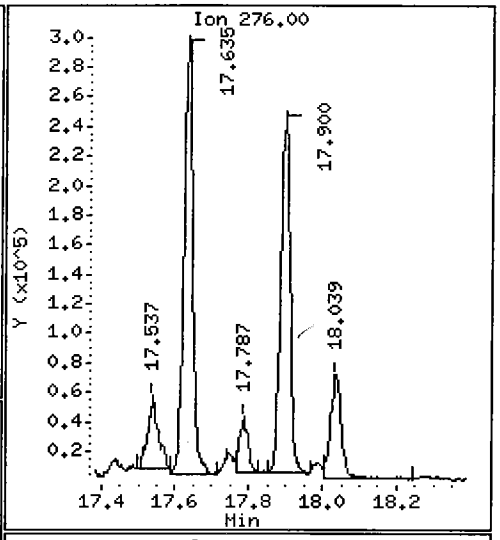
Column phase: ZB-5msi

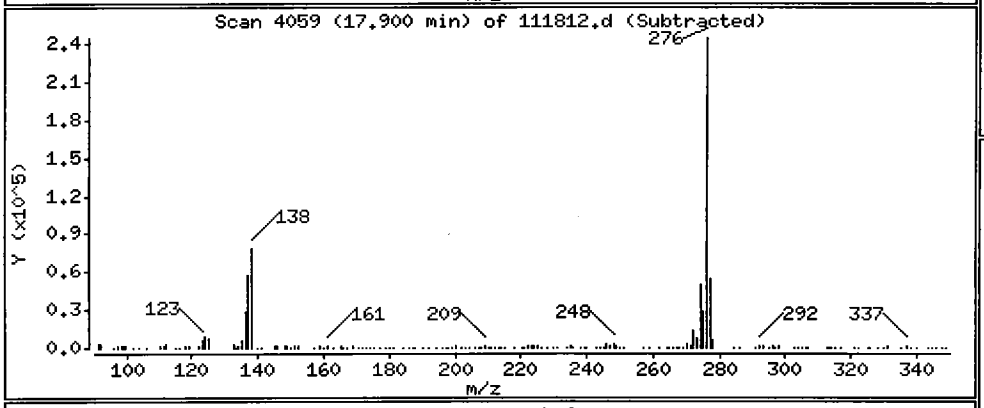
Column diameter: 0.25

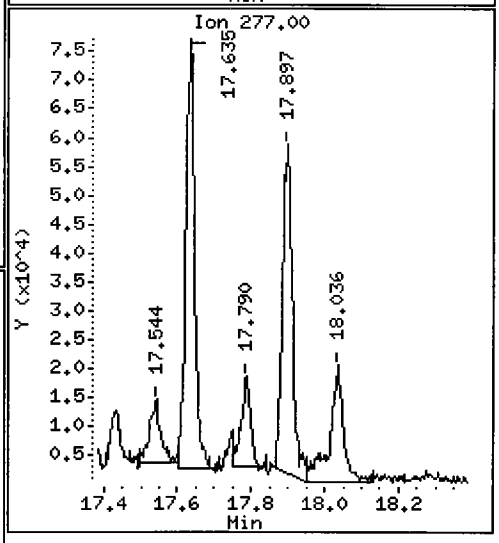
35 Benzo(g,h,i)perylene

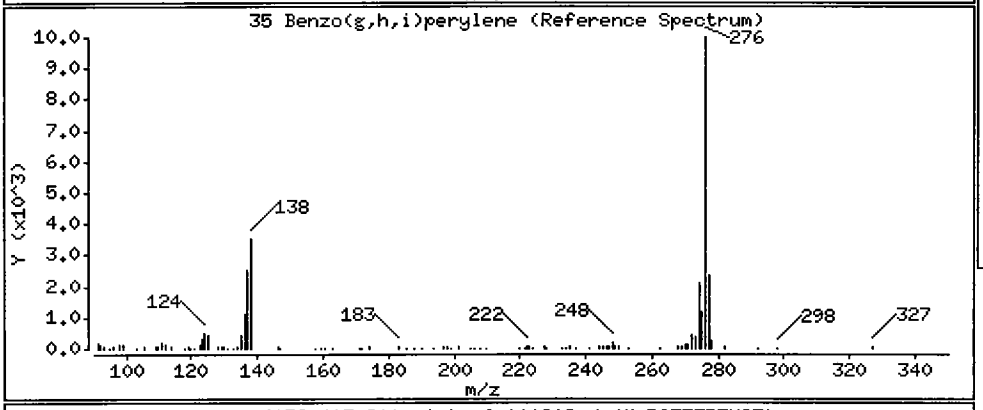
Concentration: 178.5 ug/kg

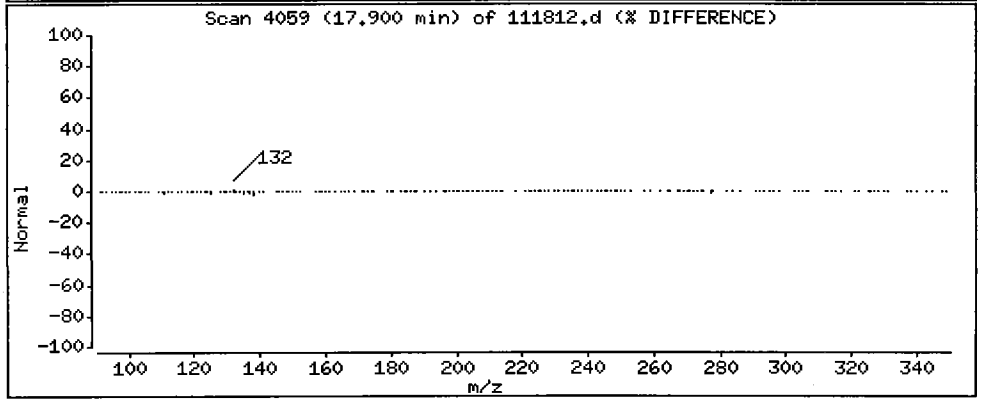












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: AHA-01-3NW(0-2)
DILUTION

Lab Sample ID: PX44A
LIMS ID: 09-28003
Matrix: Soil
Data Release Authorized:
Reported: 11/20/09

QC Report No: PX44-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 11/16/09
Date Analyzed: 11/19/09 13:49
Instrument/Analyst: NT2/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.8 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 3.00
Percent Moisture: 10.7%

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**14**	**15**
91-57-6	2-Methylnaphthalene	14	< 14 U
90-12-0	1-Methylnaphthalene	14	< 14 U
208-96-8	**Acenaphthylene**	**14**	**85**
83-32-9	Acenaphthene	14	< 14 U
86-73-7	Fluorene	14	< 14 U
85-01-8	**Phenanthrene**	**14**	**150**
120-12-7	**Anthracene**	**14**	**36**
206-44-0	**Fluoranthene**	**14**	**460**
129-00-0	**Pyrene**	**14**	**680**
56-55-3	**Benzo(a)anthracene**	**14**	**340**
218-01-9	**Chrysene**	**14**	**380**
205-99-2	**Benzo(b)fluoranthene**	**14**	**250**
207-08-9	**Benzo(k)fluoranthene**	**14**	**250**
50-32-8	**Benzo(a)pyrene**	**14**	**460**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**14**	**210**
53-70-3	**Dibenz(a,h)anthracene**	**14**	**92**
191-24-2	**Benzo(g,h,i)perylene**	**14**	**240**
132-64-9	Dibenzofuran	14	< 14 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	64.0%
d14-Dibenzo(a,h)anthracen	71.0%

Analytical Resources, Inc.

METHOD SW8270D-SIM

Data file : /chem3/nt2.i/20091119.b/111904.d
Lab Smp Id: PX44A Client Smp ID: AHA-01-3NW(0-2)
Inj Date : 19-NOV-2009 13:49
Operator : VTS Inst ID: nt2.i
Smp Info : PX44A,3
Misc Info : 09-28003
Comment : 1ul Injection
Method : /chem3/nt2.i/20091119.b/simpna.m
Meth Date : 20-Nov-2009 11:28 peter Quant Type: ISTD
Cal Date : 02-NOV-2009 18:35 Cal File: ic110206.d
Als bottle: 4
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

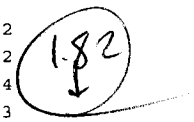
Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	3.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	12.10000	Weight of sample extracted (g)
M	10.70000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	1 Naphthalene-d8	136	5.797	5.791	(1.000)	383707	2.00000	
	2 Naphthalene	128	5.826	5.819	(1.005)	21665	0.11368	15.78
$	3 2-Methylnaphthalene-d10	152	6.845	6.841	(1.181)	65906	0.64210	89.14
	4 2-Methylnaphthalene	142	Compound Not Detected.					
	5 1-Methylnaphthalene	142	Compound Not Detected.					
	7 Acenaphthylene	152	8.312	8.306	(0.971)	102467	0.61009	84.69
*	8 Acenaphthene-d10	164	8.558	8.555	(1.000)	191243	2.00000	
	9 Acenaphthene	153	Compound Not Detected.					
	10 Dibenzofuran	168	Compound Not Detected.					
	11 Fluorene	166	9.413	9.413	(1.100)	8527	0.07399	10.27
*	15 Phenanthrene-d10	188	10.896	10.896	(1.000)	288065	2.00000	
	16 Phenanthrene	178	10.934	10.931	(1.003)	183451	1.10812	153.8
	17 Anthracene	178	11.001	11.003	(1.010)	41978	0.25628	35.58
	19 Fluoranthene	202	12.850	12.846	(1.179)	564225	3.29276	457.1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	13.184	13.184	(0.883)	901362	4.89848	680.0
	22 Benzo(a)anthracene	228	14.910	14.907	(0.999)	403024	2.42783	337.0
*	23 Chrysene-d12	240	14.929	14.926	(1.000)	285211	2.00000	
	24 Chrysene	228	14.961	14.960	(1.002)	450625	2.73865	380.2
	28 Benzo(b)fluoranthene	252	16.198	16.175	(0.979)	596406	3.84778	534.2
	29 Benzo(k)fluoranthene	252	16.198	16.197	(0.979)	592185	3.41764	474.4
	30 Benzo(a)pyrene	252	16.491	16.488	(0.997)	429407	3.28668	456.3
*	31 Perylene-d12	264	16.548	16.544	(1.000)	261227	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.526	17.526	(1.059)	197020	1.49653	207.7
$	32 Dibenz(a,h)anthrancene-d14	292	17.507	17.510	(1.058)	57913	0.70765	98.24
	34 Dibenz(a,h)anthracene	278	17.539	17.538	(1.060)	67145	0.65841	91.40
	35 Benzo(g,h,i)perylene	276	17.782	17.778	(1.075)	188645	1.72540	239.5



Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: 111904.d
Lab Smp Id: PX44A
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20091119.b/simpna.m
Misc Info: 09-28003

Calibration Date: 19-NOV-2009
Calibration Time: 11:31
Client Smp ID: AHA-01-3NW(0-2)
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	353094	176547	706188	383707	8.67
8 Acenaphthene-d10	172751	86376	345502	191243	10.70
15 Phenanthrene-d10	254451	127226	508902	288065	13.21
23 Chrysene-d12	238407	119204	476814	285211	19.63
31 Perylene-d12	207102	103551	414204	261227	26.13

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	5.79	5.29	6.29	5.80	0.11
8 Acenaphthene-d10	8.55	8.05	9.05	8.56	0.04
15 Phenanthrene-d10	10.90	10.40	11.40	10.90	0.00
23 Chrysene-d12	14.93	14.43	15.43	14.93	0.02
31 Perylene-d12	16.54	16.04	17.04	16.55	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA
Sample Matrix: SOLID
Lab Smp Id: PX44A
Level: LOW
Data Type: MS DATA
SpikeList File: soillcs.spk
Sublist File: pna1mn.sub
Method File: /chem3/nt2.i/20091119.b/simpna.m
Misc Info: 09-28003

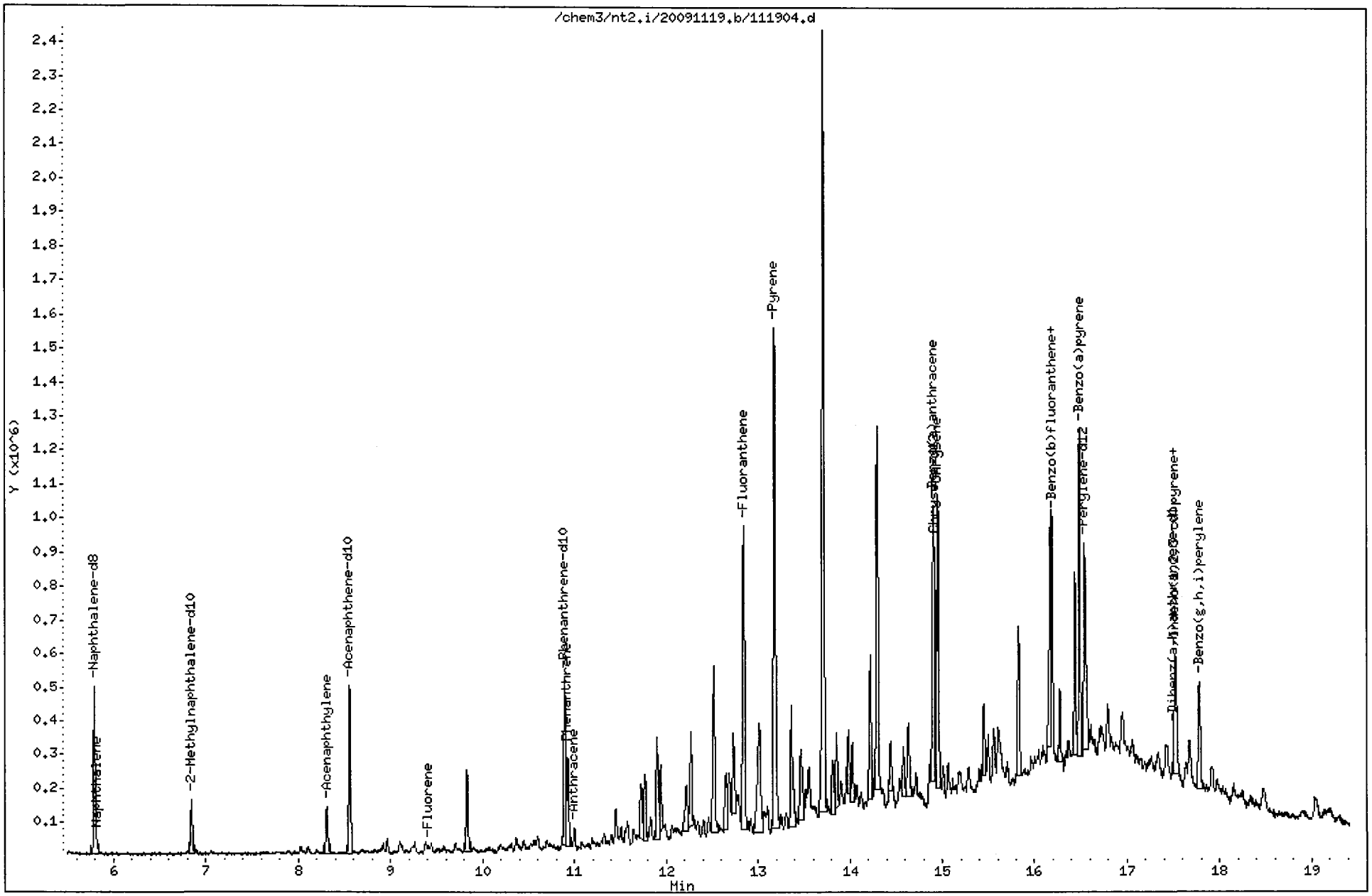
Client SDG: PX44
Fraction: SV
Client Smp ID: AHA-01-3NW(0-2)
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	138.8	89.14	64.21	34-100
$ 32 Dibenz(a,h)anthran	138.8	98.24	70.76	10-117

Data File: /chem3/nt2.i/20091119.b/111904.d
Date : 19-NOV-2009 13:49
Client ID: AHA-01-3NW(0-2)
Sample Info: PX44A,3
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25



PX44-000074

Data File: /chem3/nt2.i/20091119.b/111904.d

Date : 19-NOV-2009 13:49

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A,3

Volume Injected (uL): 1.0

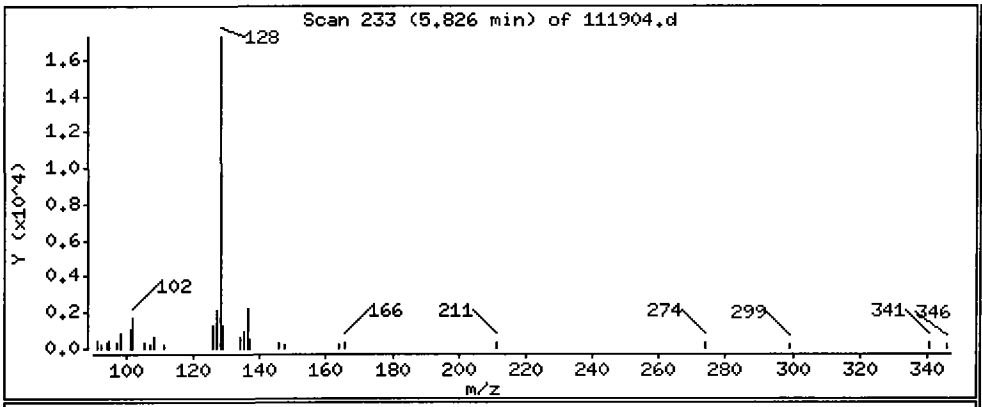
Operator: VTS

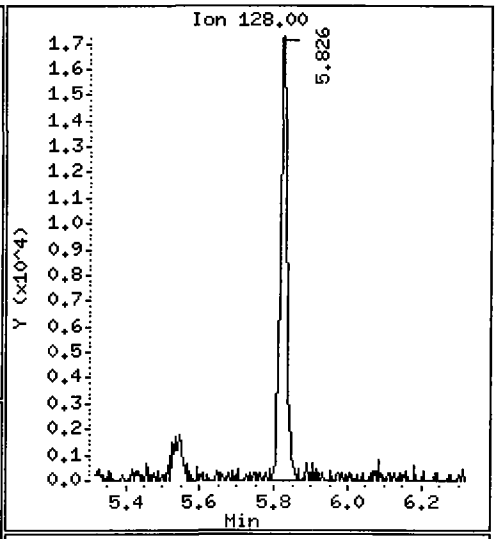
Column phase: ZB-5msi

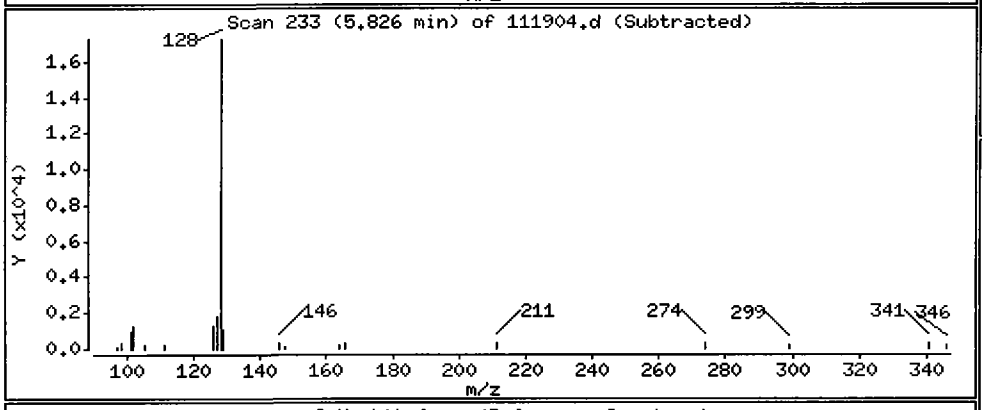
Column diameter: 0.25

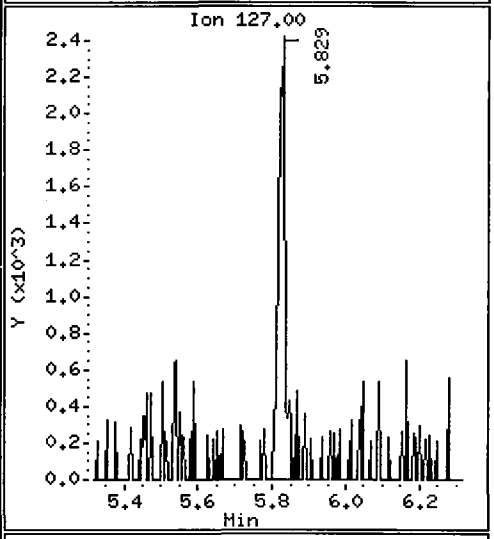
2 Naphthalene

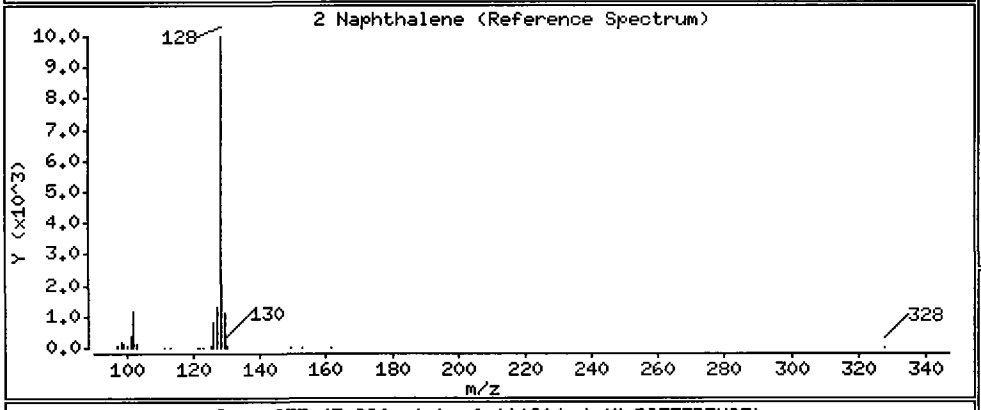
Concentration: 15.78 ug/kg

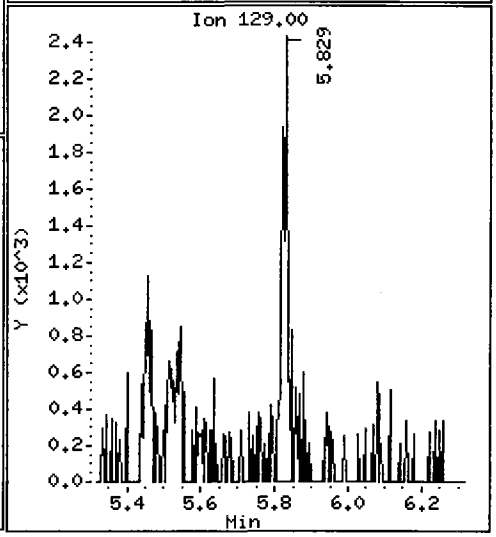


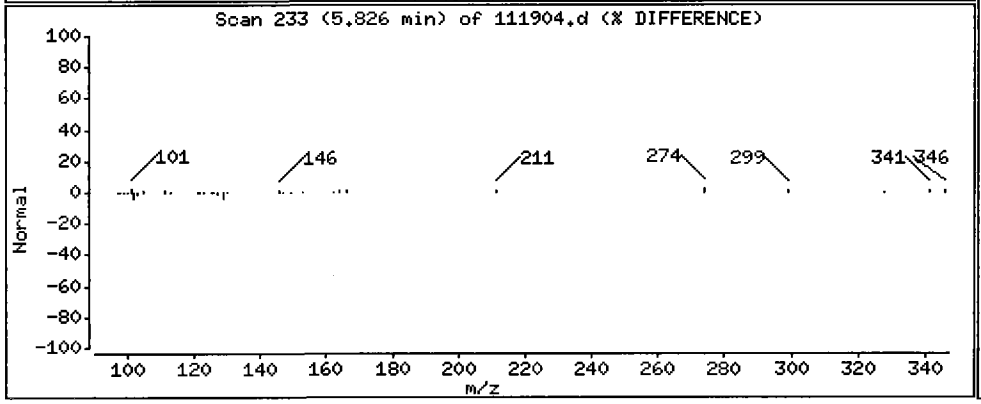












Data File: /chem3/nt2.i/20091119.b/111904.d

Date : 19-NOV-2009 13:49

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A,3

Volume Injected (uL): 1.0

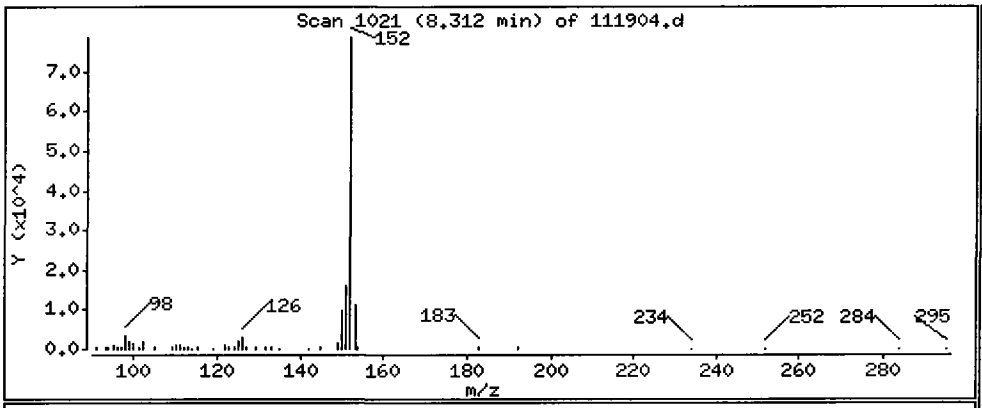
Operator: VTS

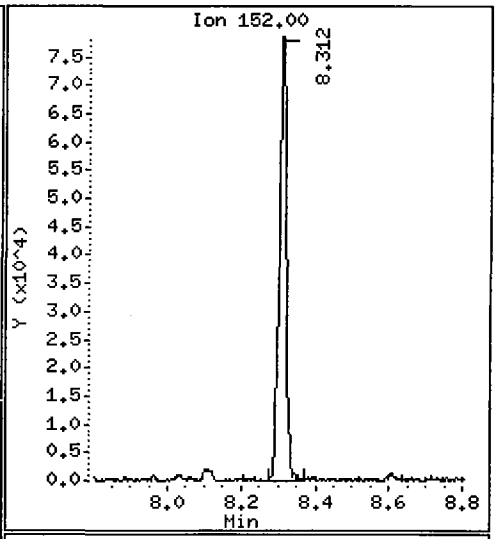
Column phase: ZB-5msi

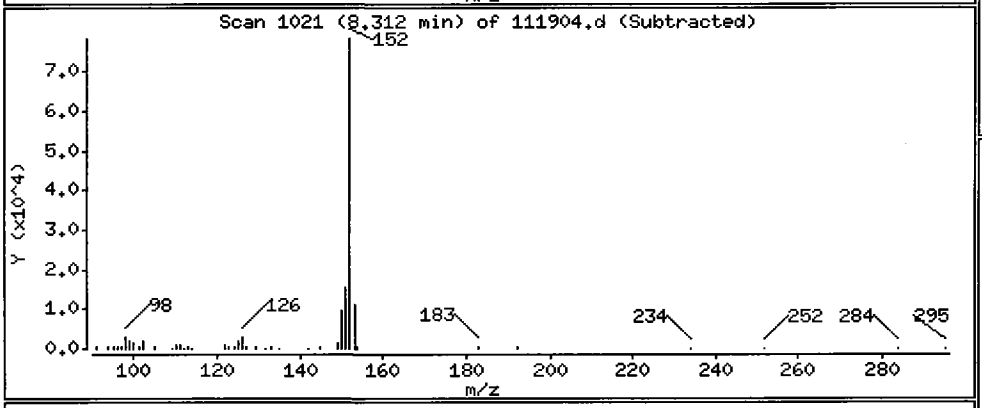
Column diameter: 0.25

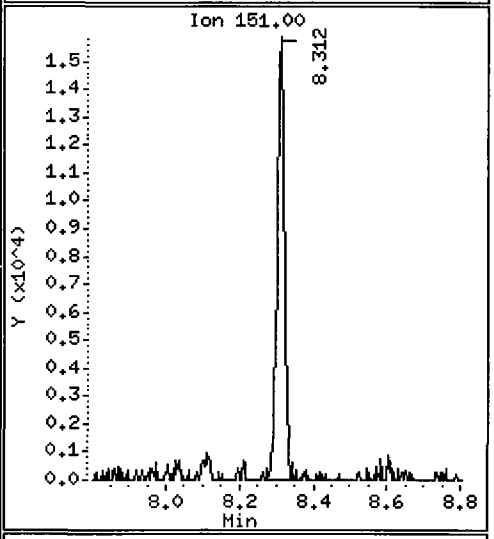
7 Acenaphthylene

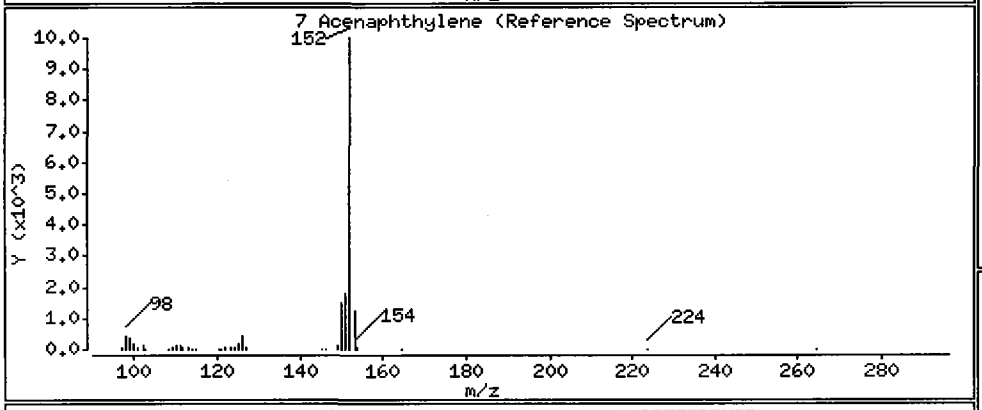
Concentration: 84.69 ug/kg

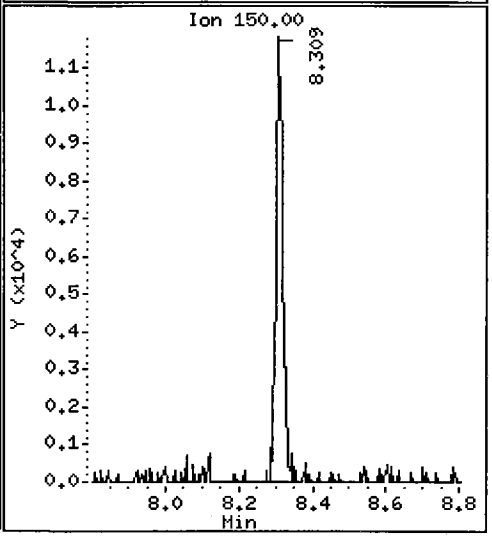


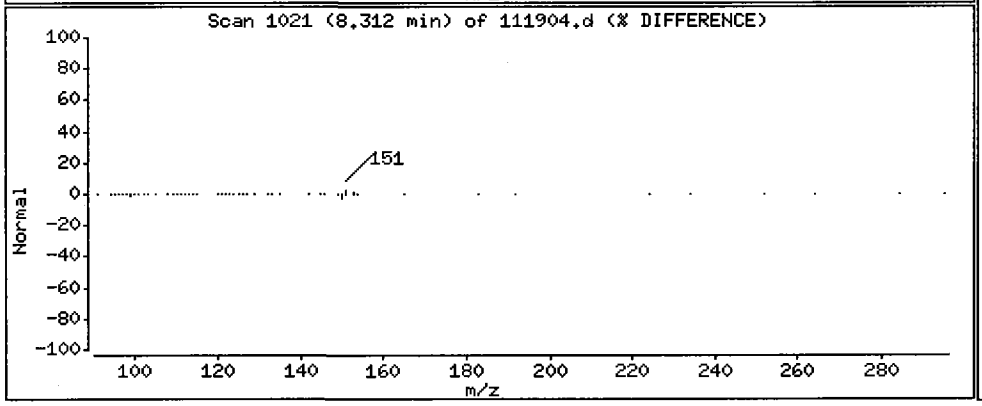












Data File: /chem3/nt2.i/20091119.b/111904.d

Date : 19-NOV-2009 13:49

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A,3

Volume Injected (uL): 1.0

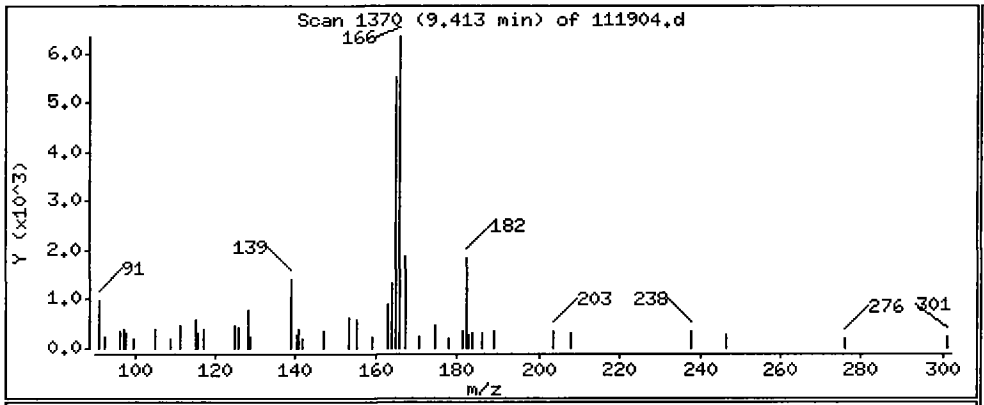
Operator: VTS

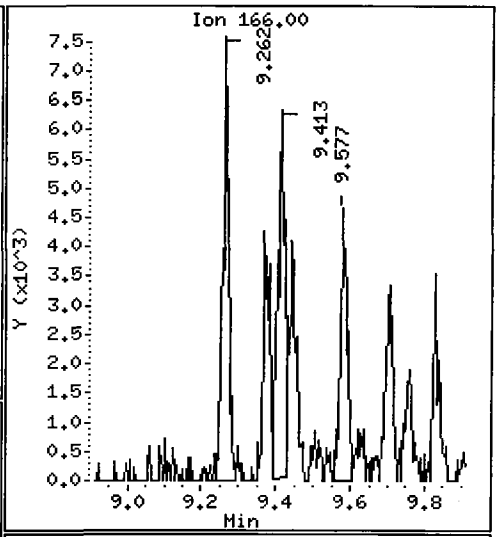
Column phase: ZB-5msi

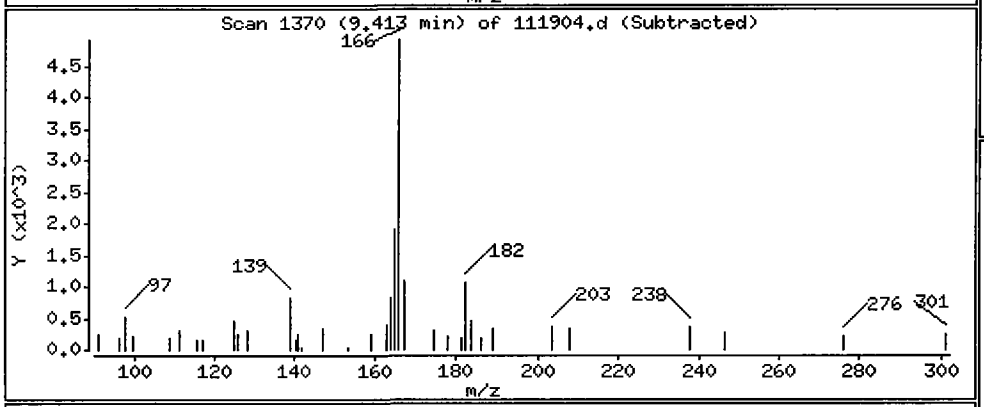
Column diameter: 0.25

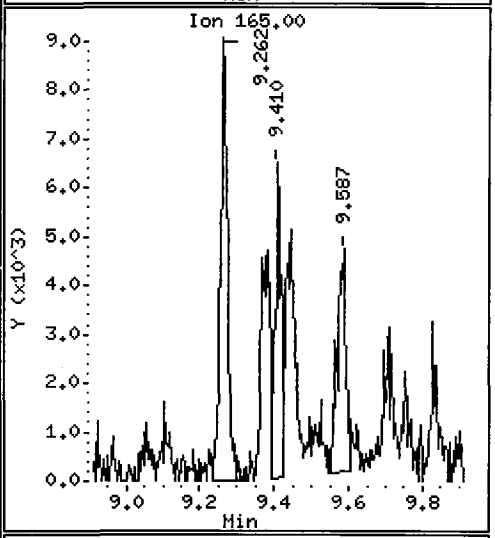
11 Fluorene

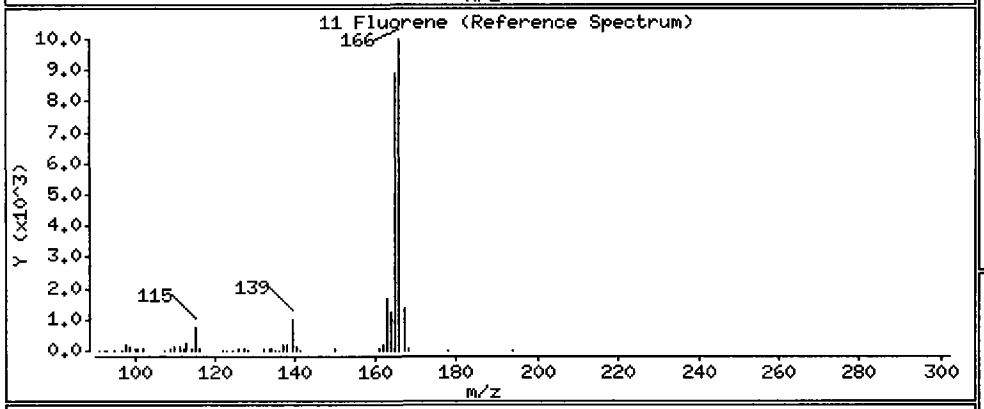
Concentration: 10.27 ug/kg

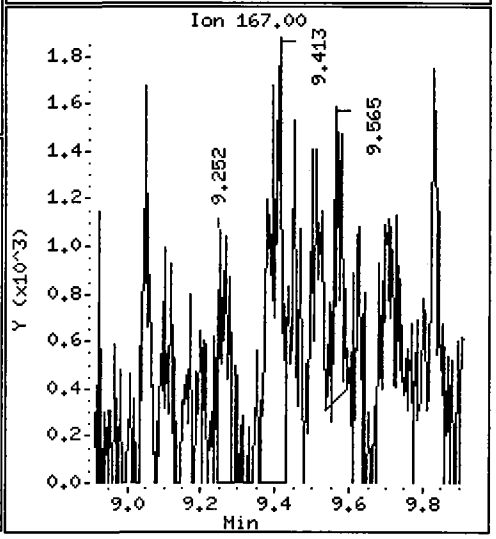


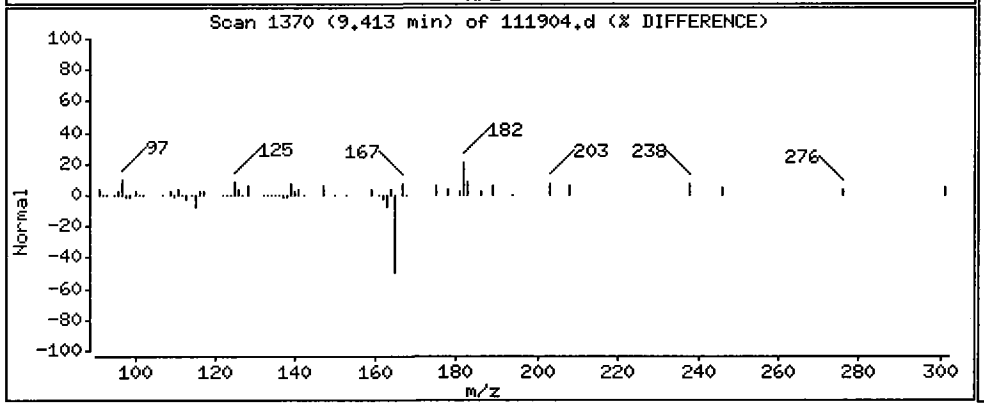












Data File: /chem3/nt2.i/20091119.b/111904.d

Date : 19-NOV-2009 13:49

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A,3

Volume Injected (uL): 1.0

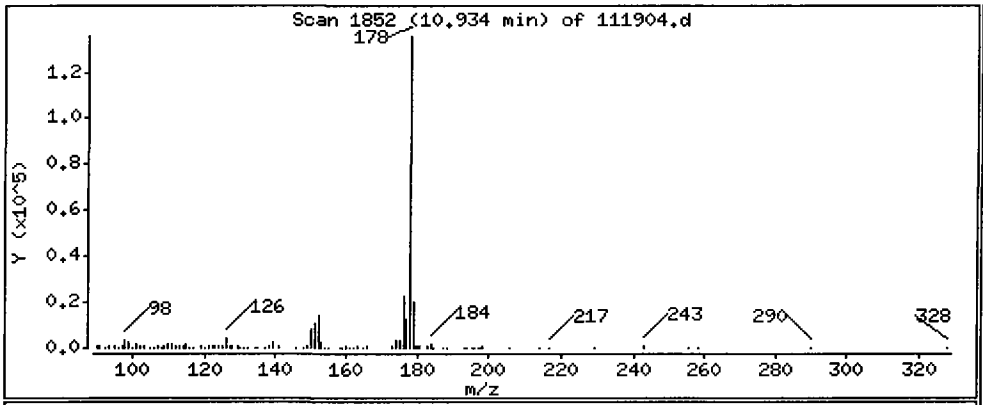
Operator: VTS

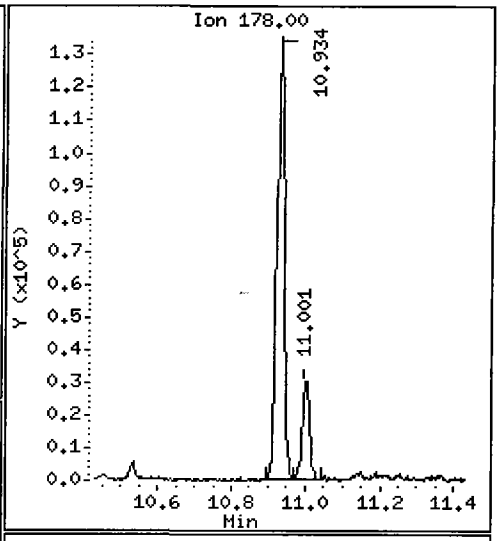
Column phase: ZB-5msi

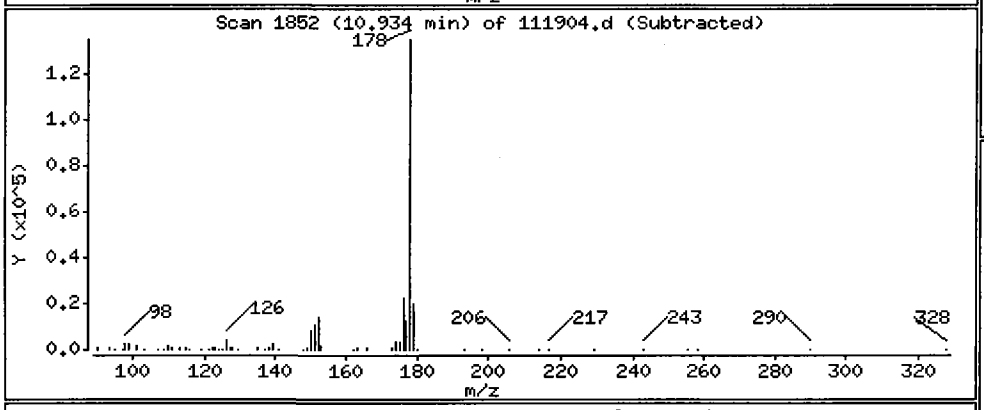
Column diameter: 0.25

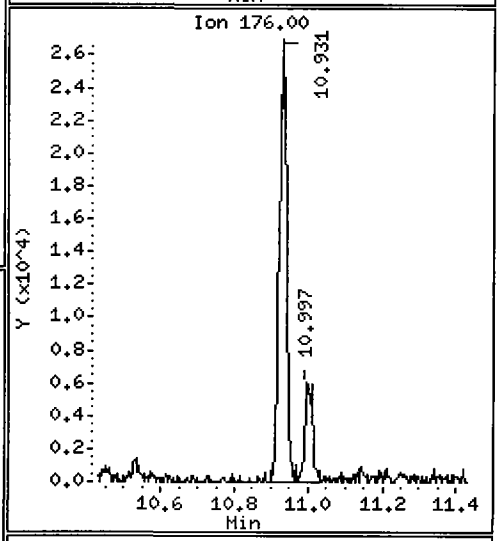
16 Phenanthrene

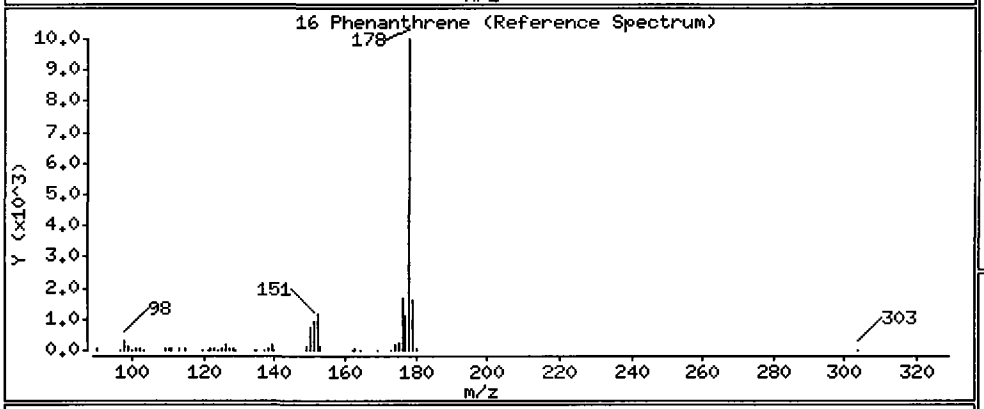
Concentration: 153.8 ug/kg

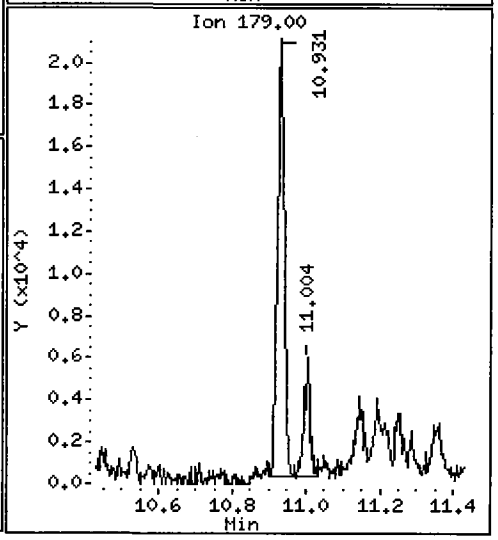


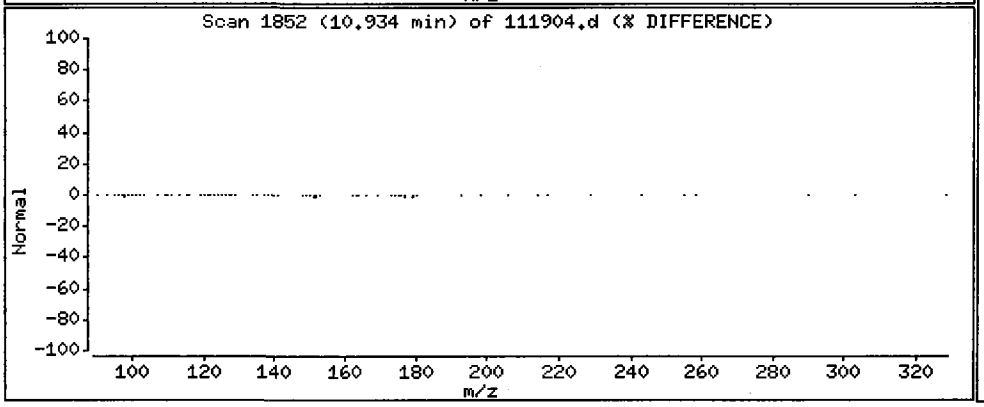












Data File: /chem3/nt2.i/20091119.b/111904.d

Date : 19-NOV-2009 13:49

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A,3

Volume Injected (uL): 1.0

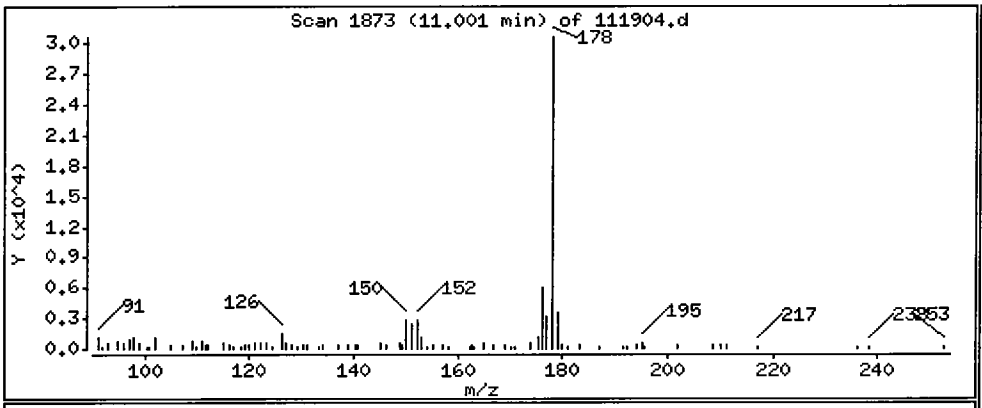
Operator: VTS

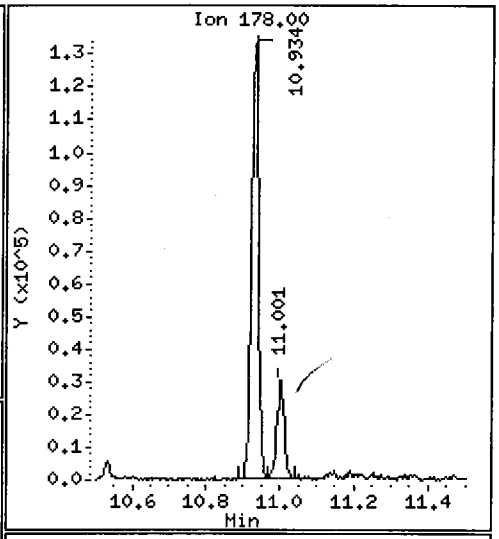
Column phase: ZB-5msi

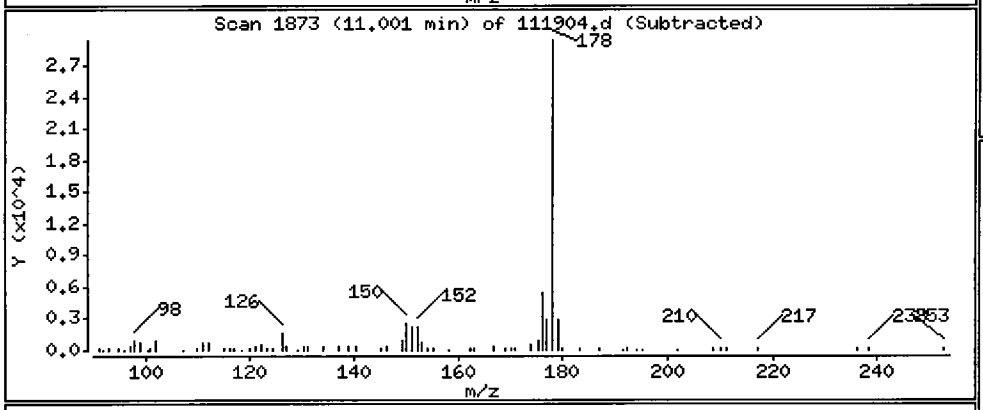
Column diameter: 0.25

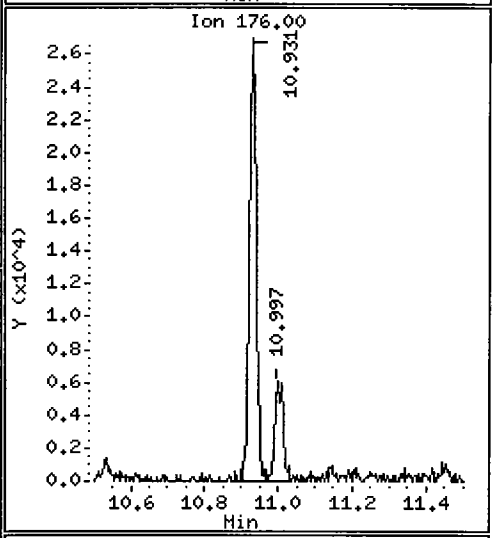
17 Anthracene

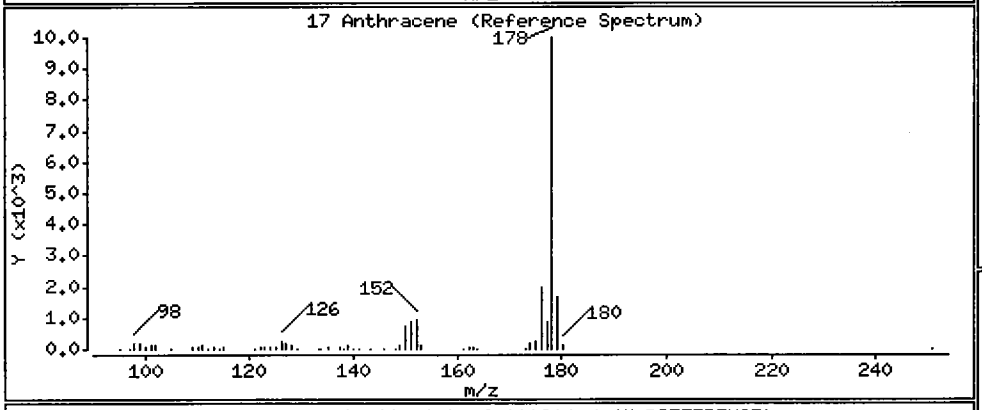
Concentration: 35.58 ug/kg

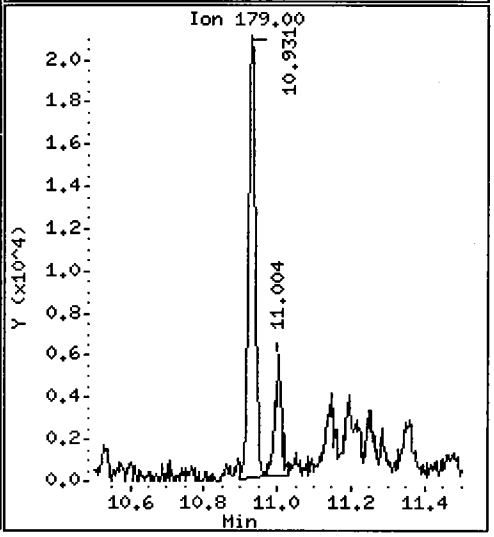


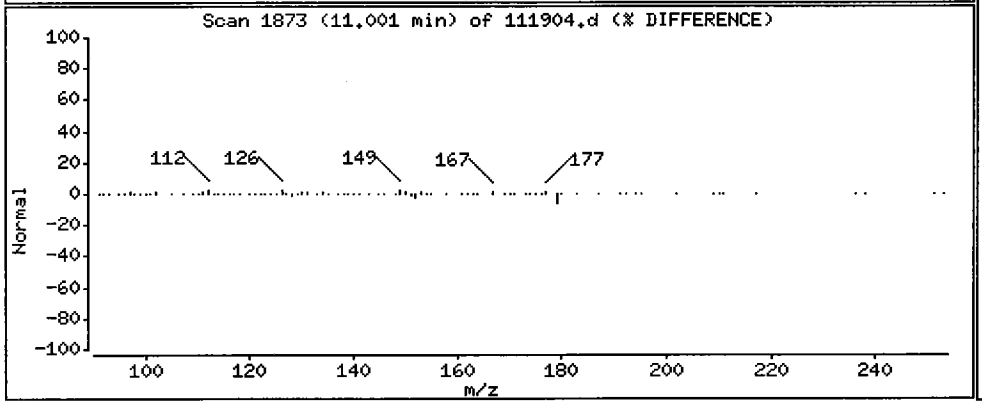












Data File: /chem3/nt2.i/20091119.b/111904.d

Date : 19-NOV-2009 13:49

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A,3

Volume Injected (uL): 1.0

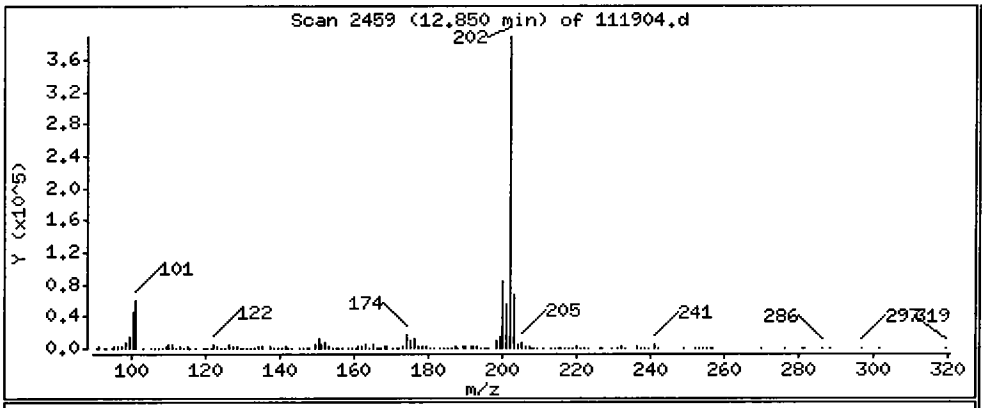
Operator: VTS

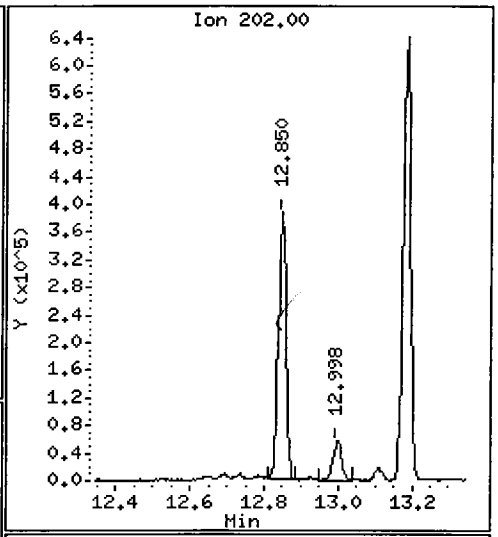
Column phase: ZB-5msi

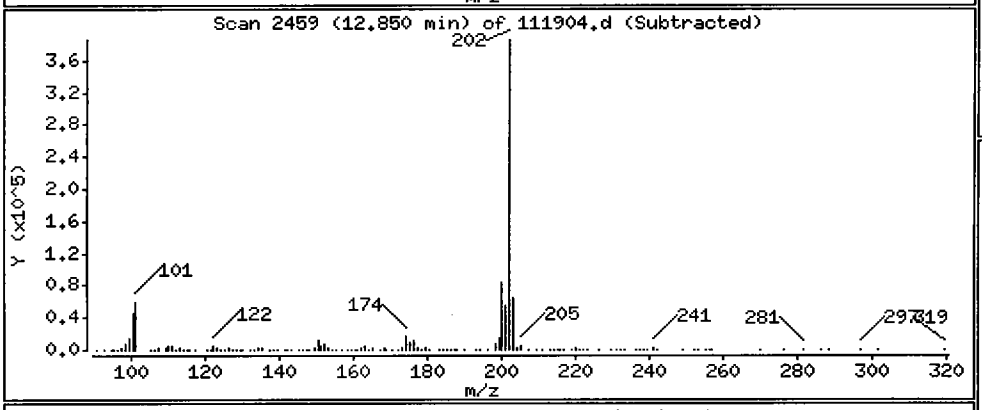
Column diameter: 0.25

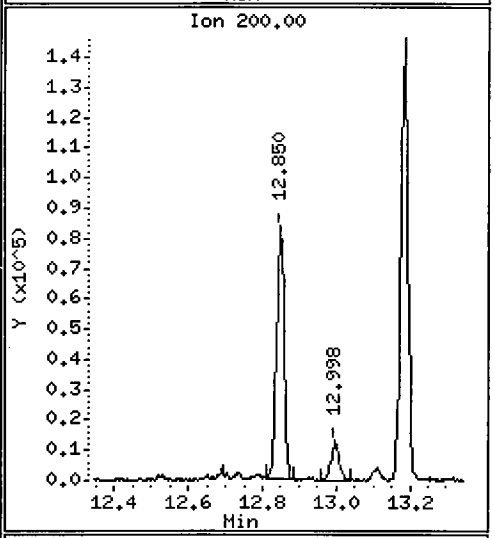
19 Fluoranthene

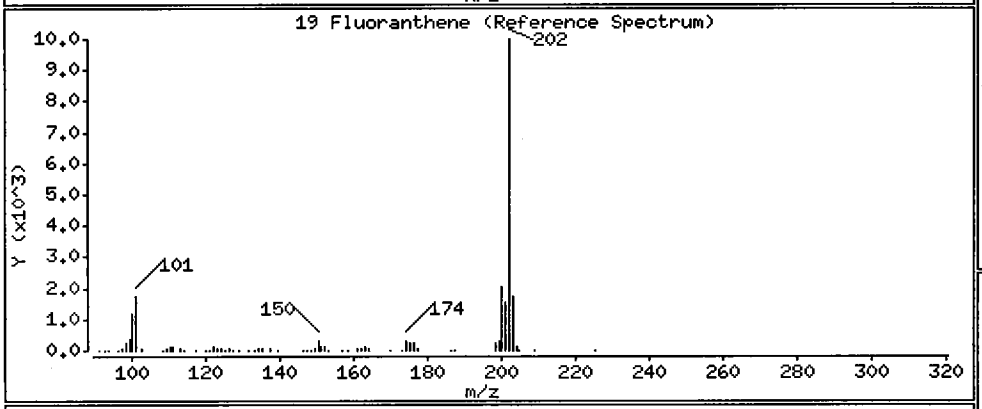
Concentration: 457.1 ug/kg

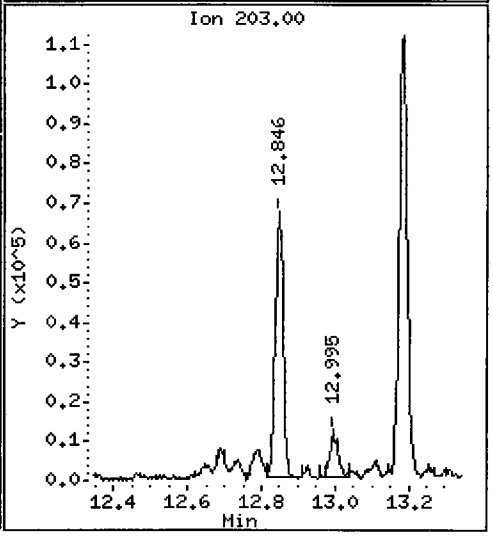


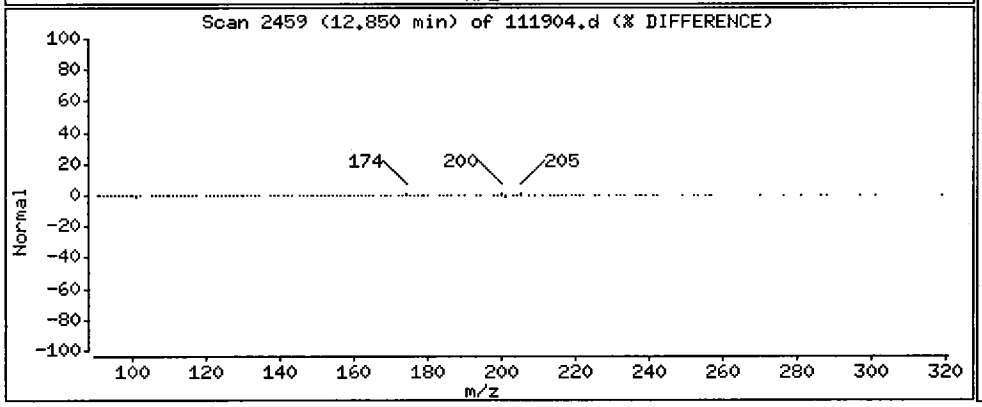












Data File: /chem3/nt2.i/20091119.b/111904.d

Date : 19-NOV-2009 13:49

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A,3

Volume Injected (uL): 1.0

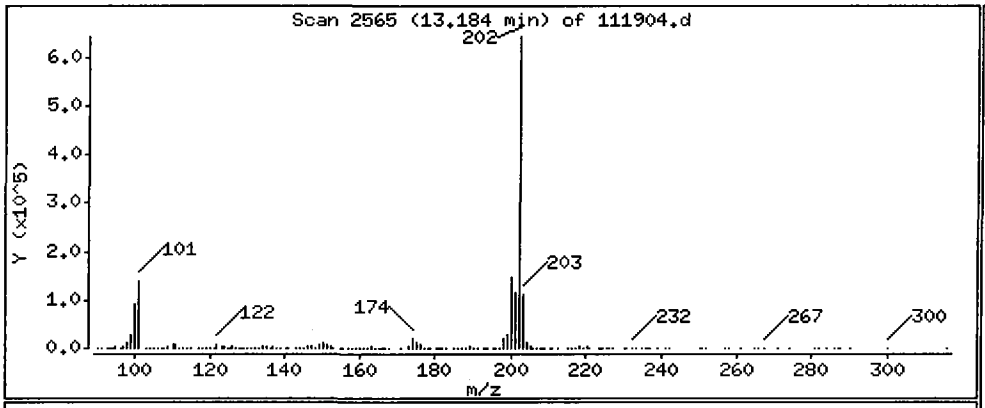
Operator: VTS

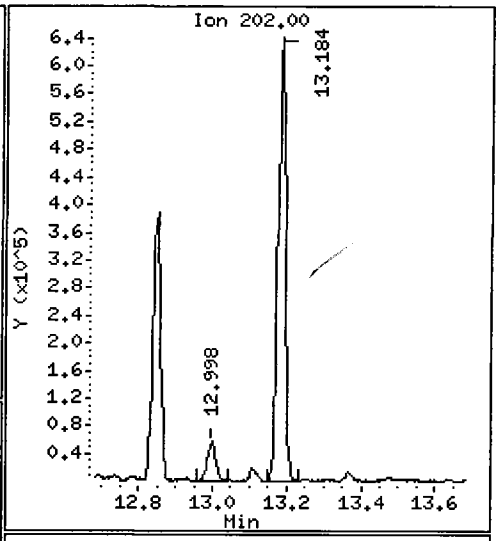
Column phase: ZB-5msi

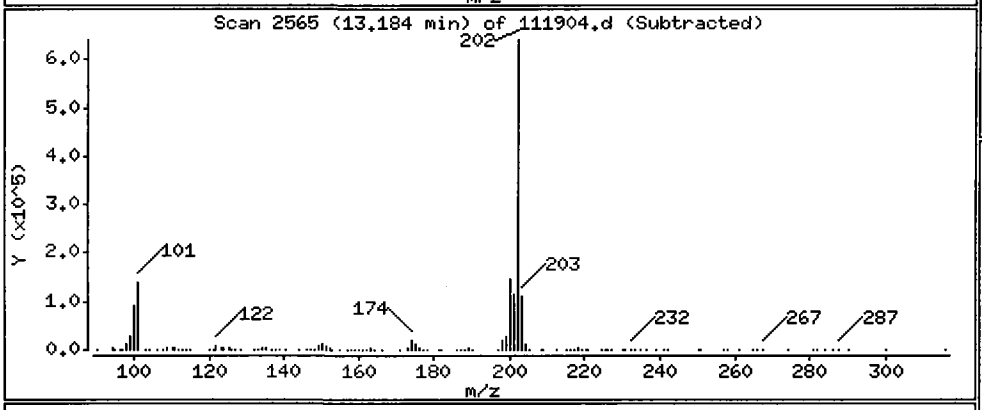
Column diameter: 0.25

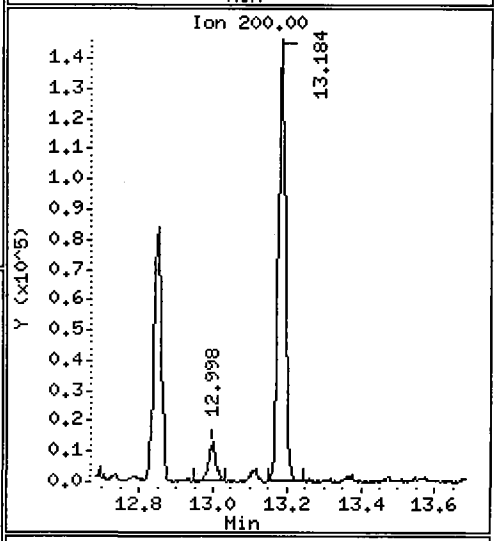
20 Pyrene

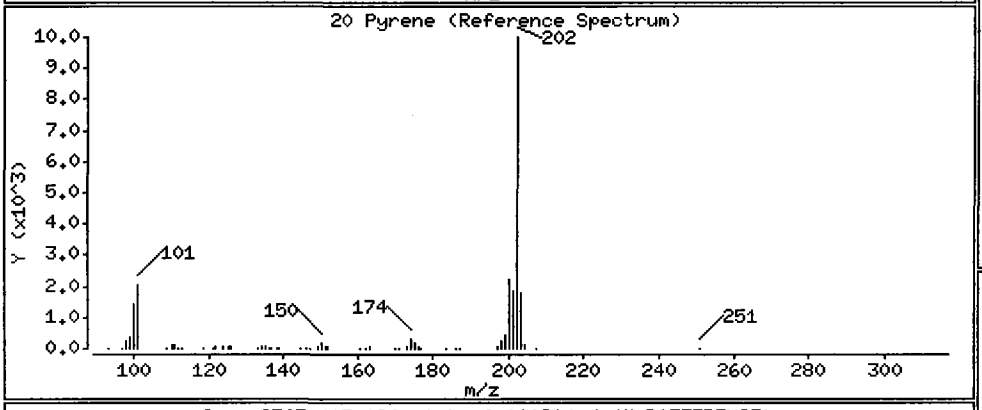
Concentration: 680.0 ug/kg

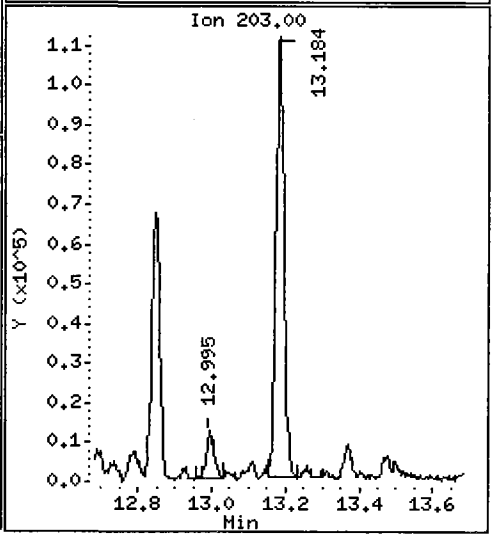


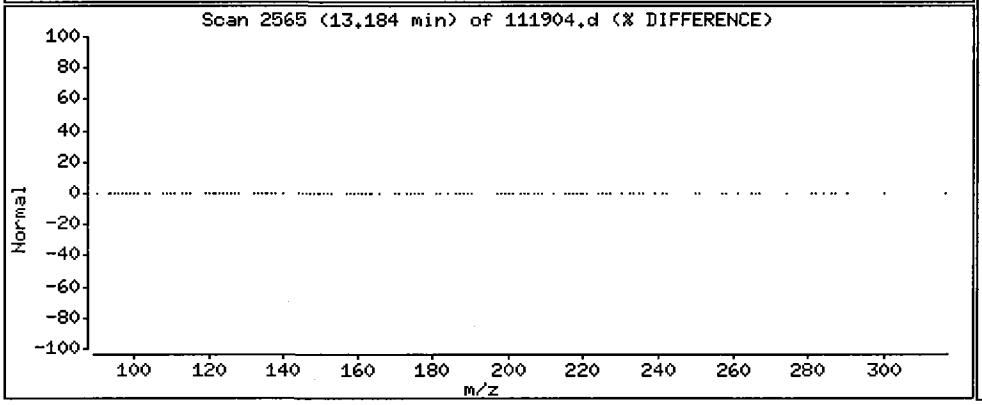












Data File: /chem3/nt2.i/20091119.b/111904.d

Date : 19-NOV-2009 13:49

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A,3

Volume Injected (uL): 1.0

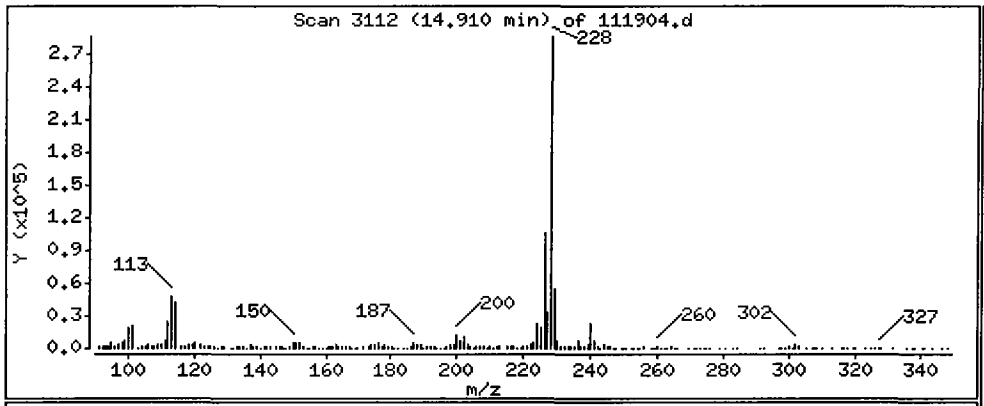
Operator: VTS

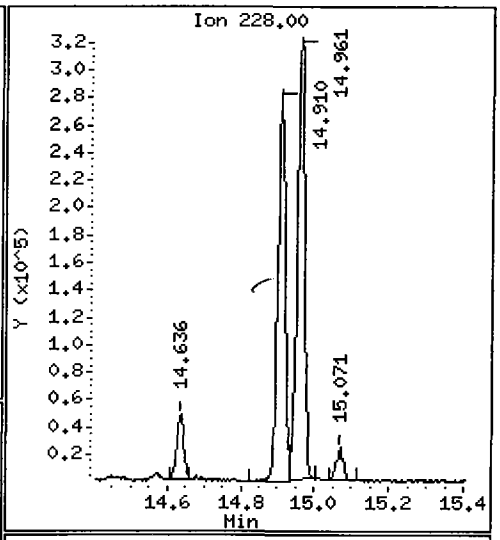
Column phase: ZB-5msi

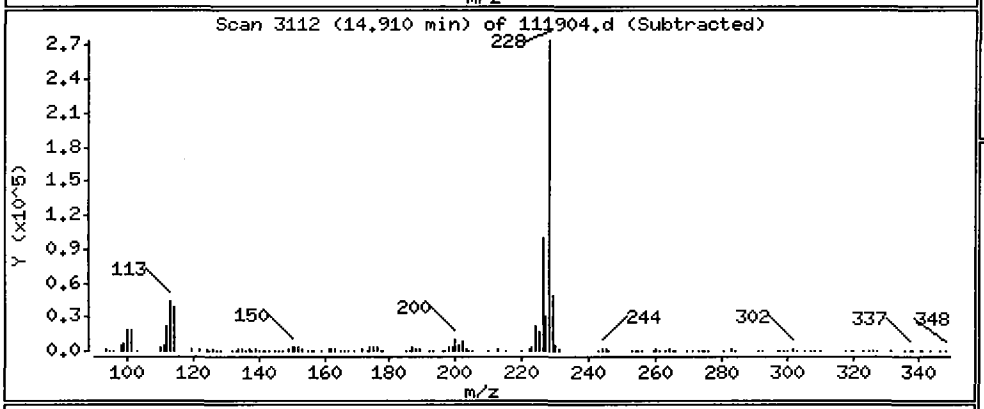
Column diameter: 0.25

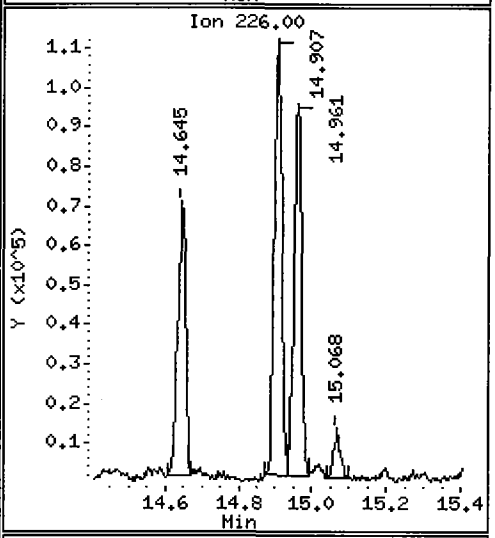
22 Benzo(a)anthracene

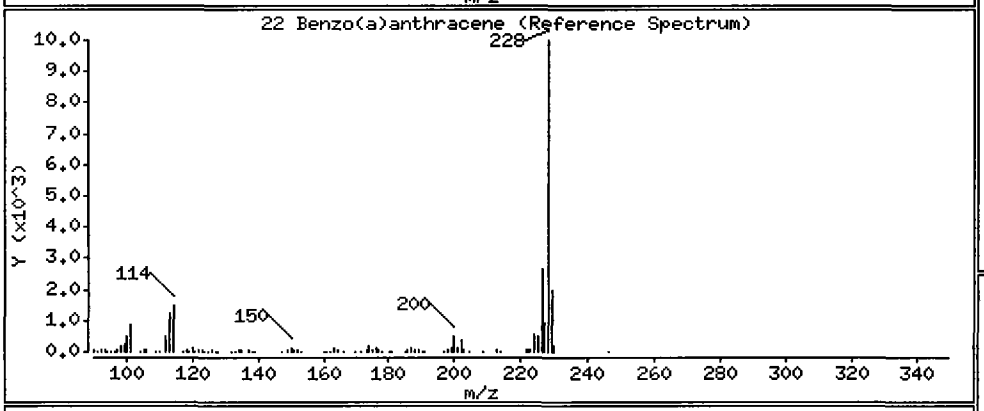
Concentration: 337.0 ug/kg

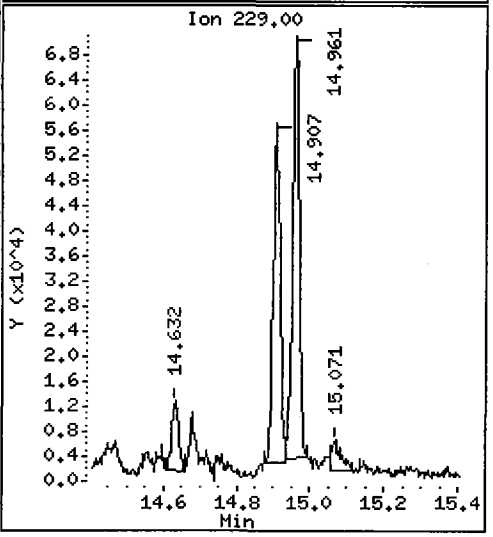


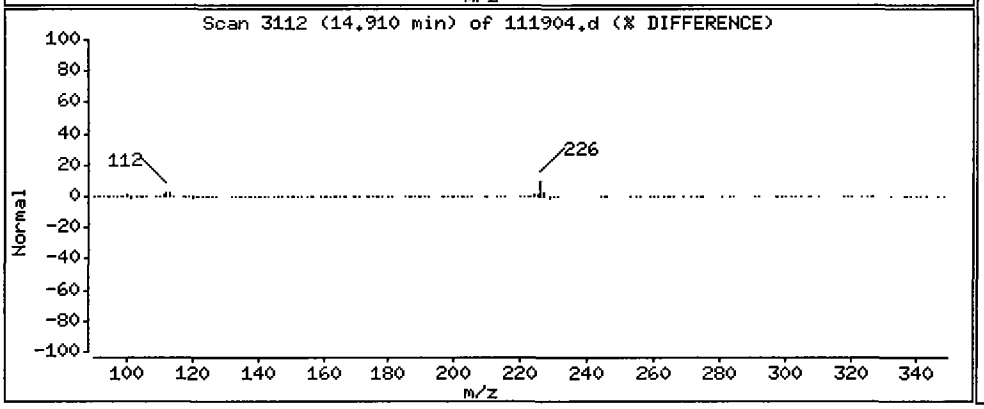












Data File: /chem3/nt2.i/20091119.b/111904.d

Date : 19-NOV-2009 13:49

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A,3

Volume Injected (uL): 1.0

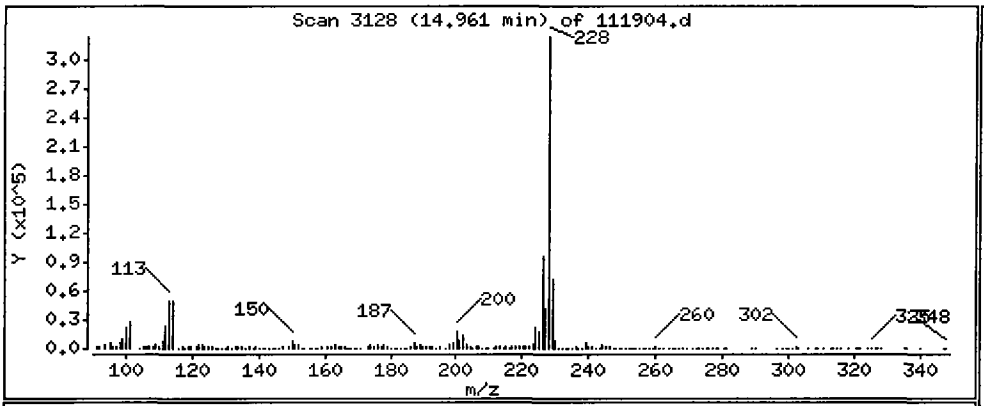
Operator: VTS

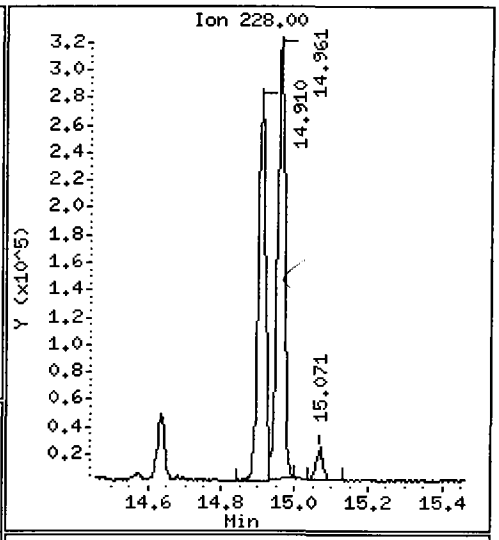
Column phase: ZB-5msi

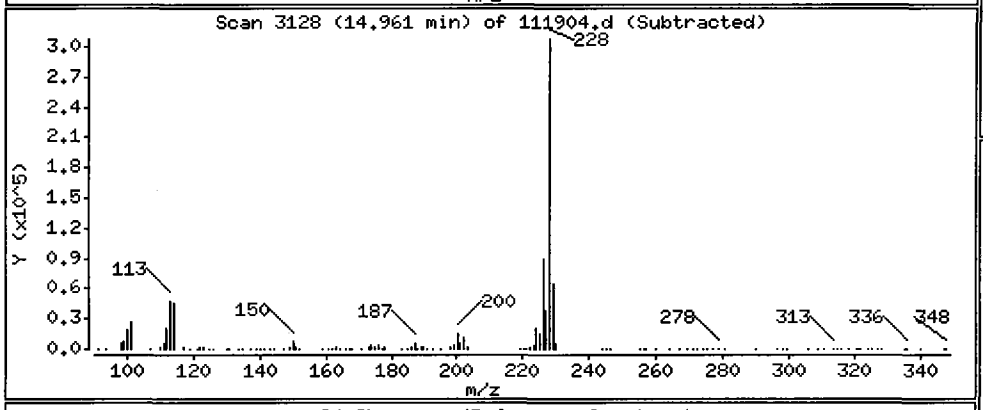
Column diameter: 0.25

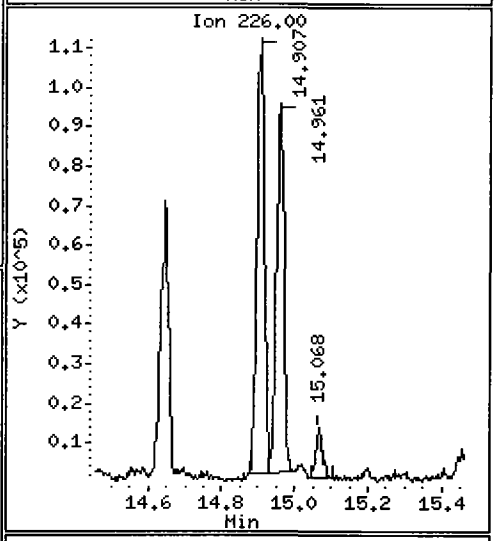
24 Chrysene

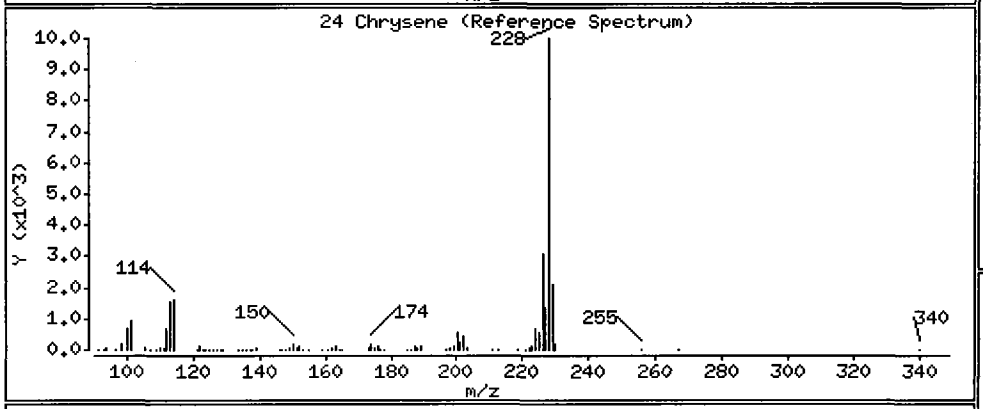
Concentration: 380.2 ug/kg

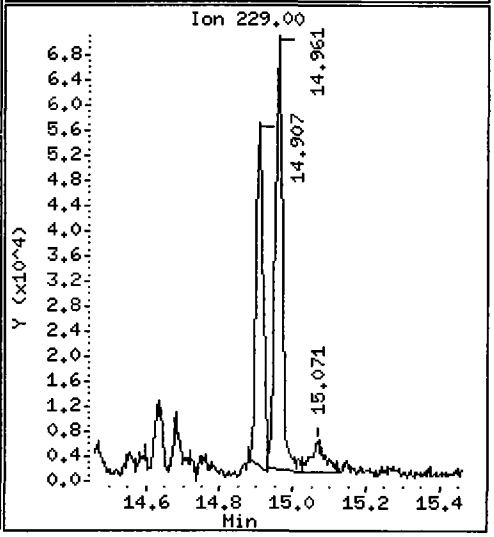


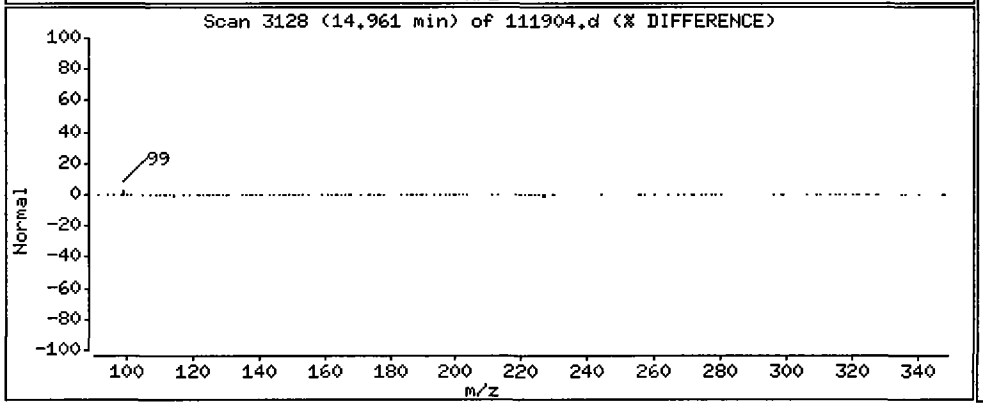












Data File: /chem3/nt2.i/20091119.b/111904.d

Date : 19-NOV-2009 13:49

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A,3

Volume Injected (uL): 1.0

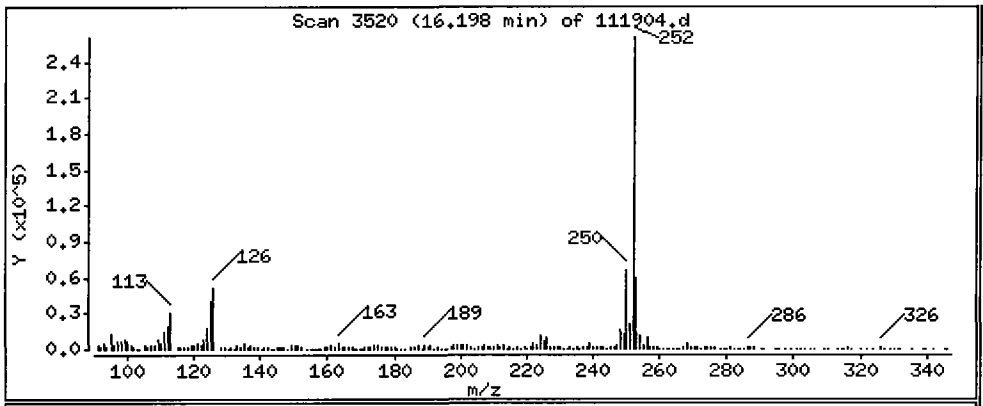
Operator: VTS

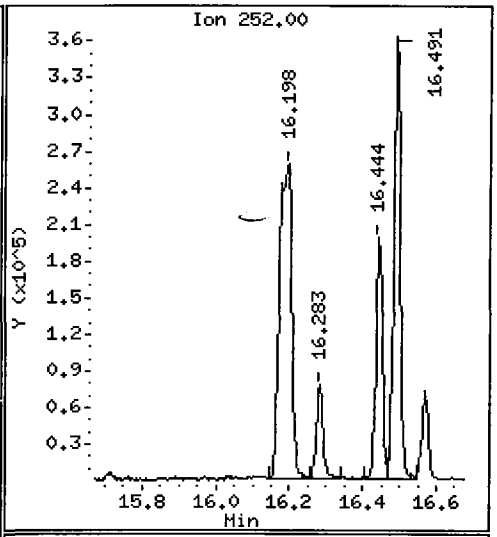
Column phase: ZB-5msi

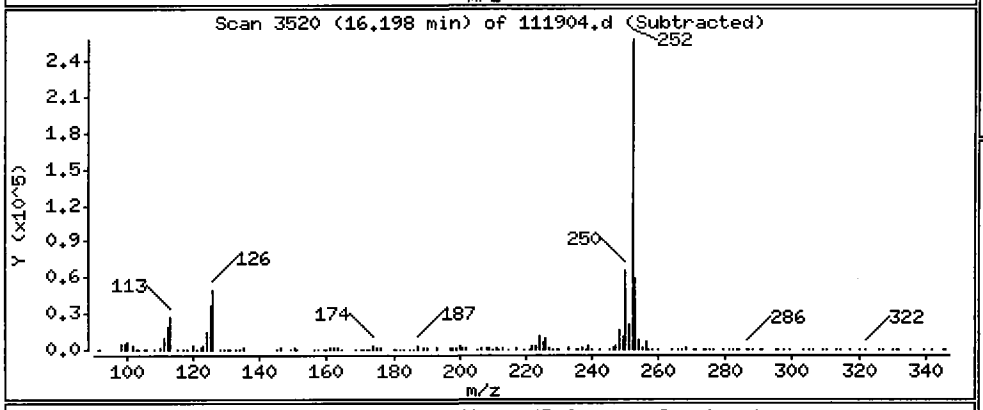
Column diameter: 0.25

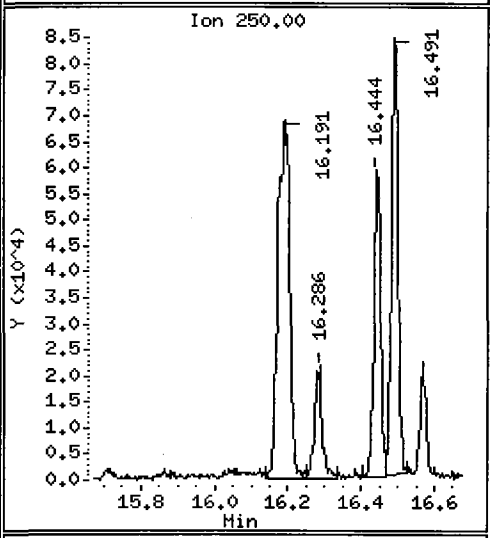
28 Benzo(b)fluoranthene

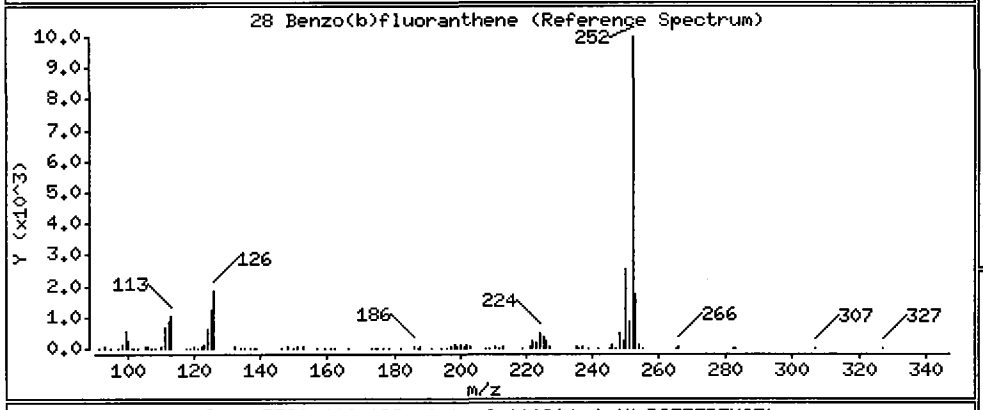
Concentration: 534.2 ug/kg

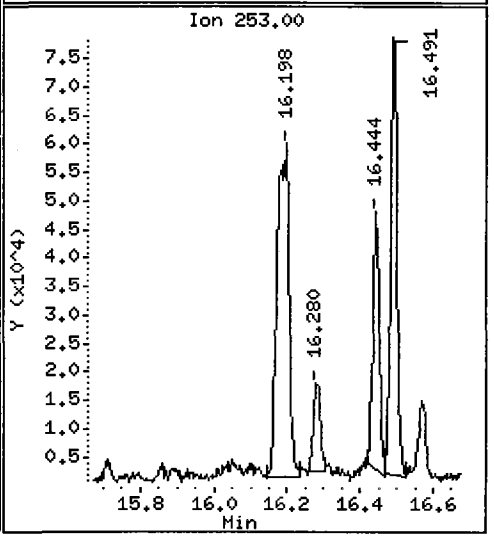


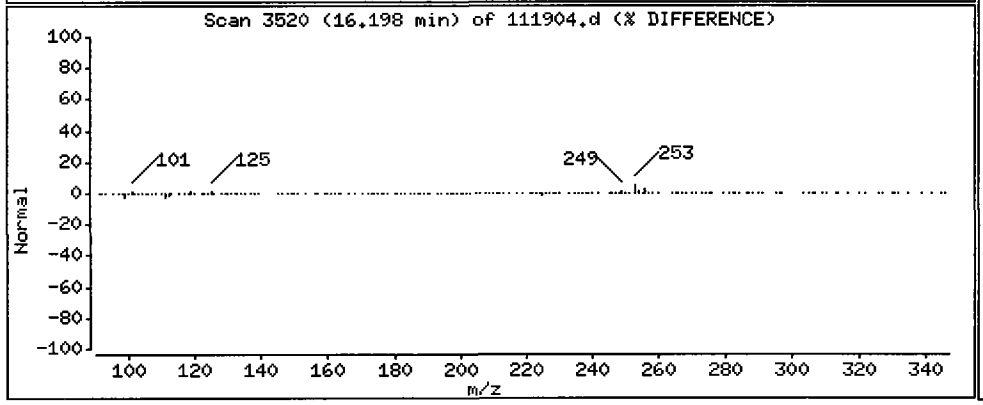












Data File: /chem3/nt2.i/20091119.b/111904.d

Date : 19-NOV-2009 13:49

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A,3

Volume Injected (uL): 1.0

Operator: VTS

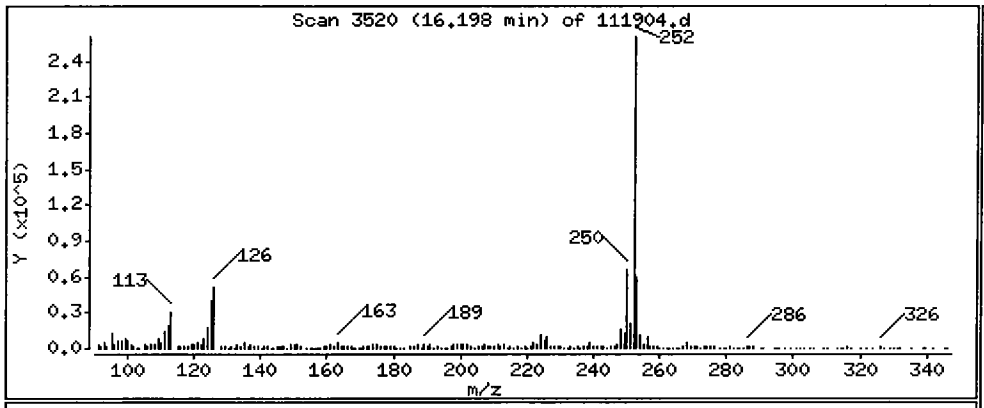
Column phase: ZB-5msi

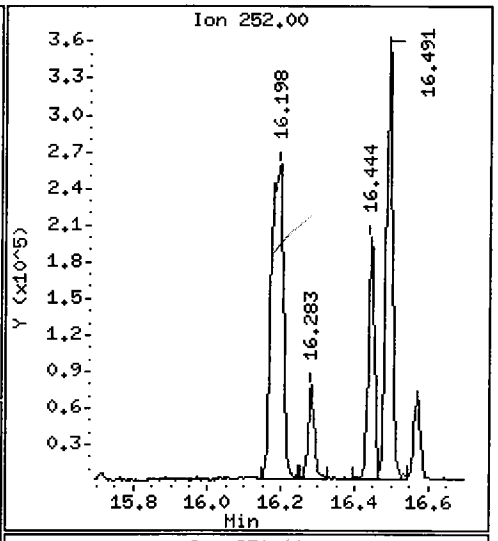
Column diameter: 0.25

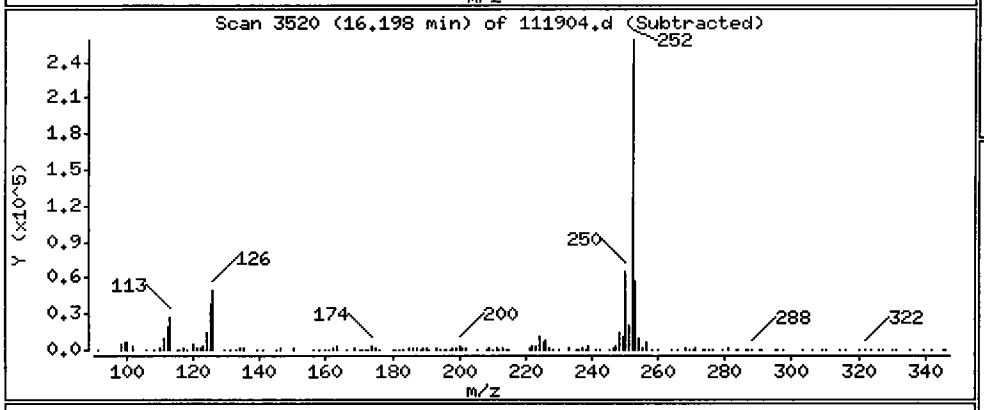
11/6

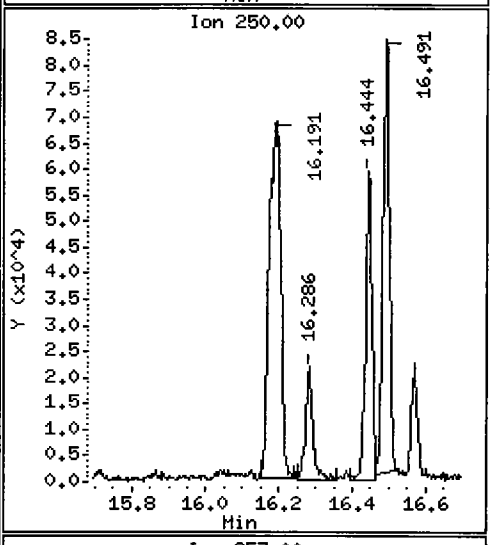
29 Benzo(k)fluoranthene

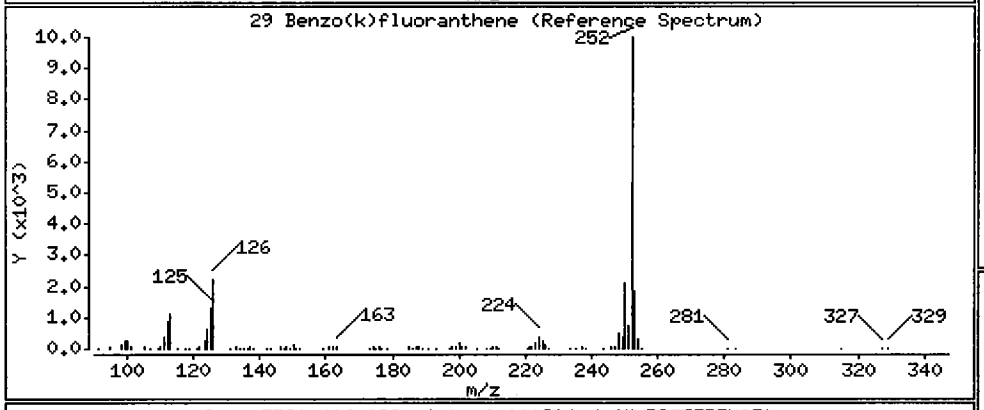
Concentration: 474.4 ug/kg

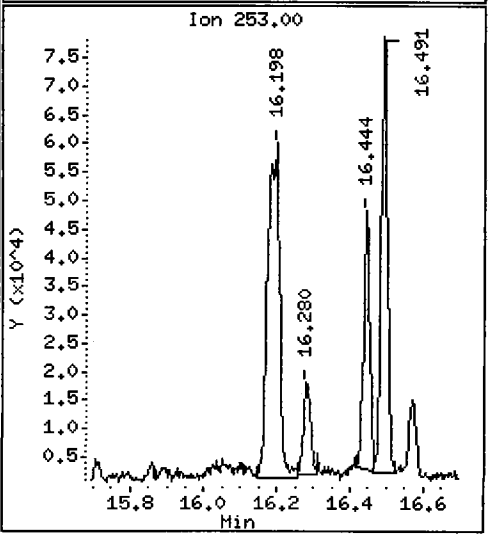


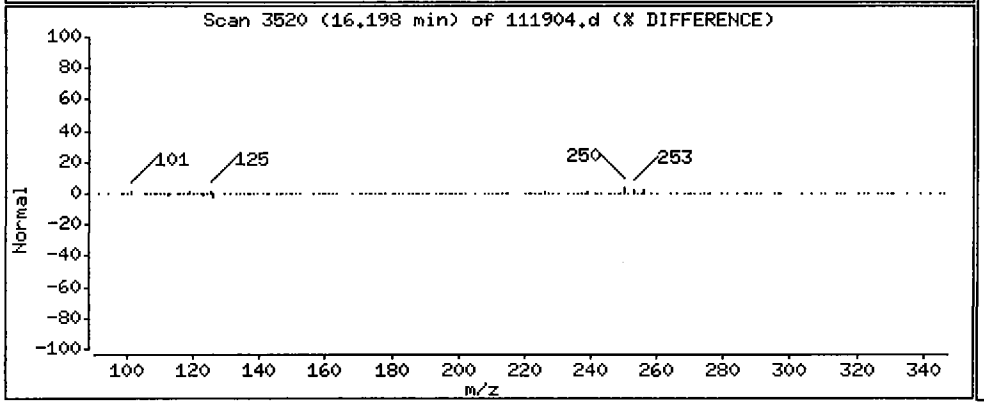












Data File: /chem3/nt2.i/20091119.b/111904.d

Date : 19-NOV-2009 13:49

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A,3

Volume Injected (uL): 1.0

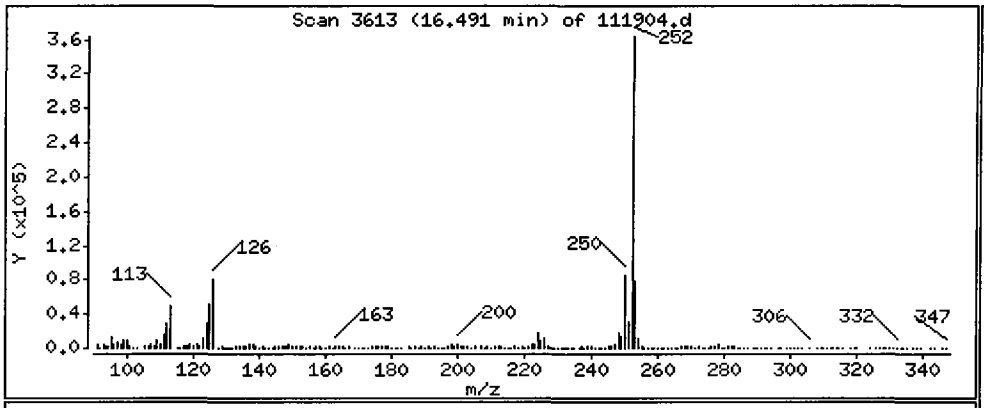
Operator: VTS

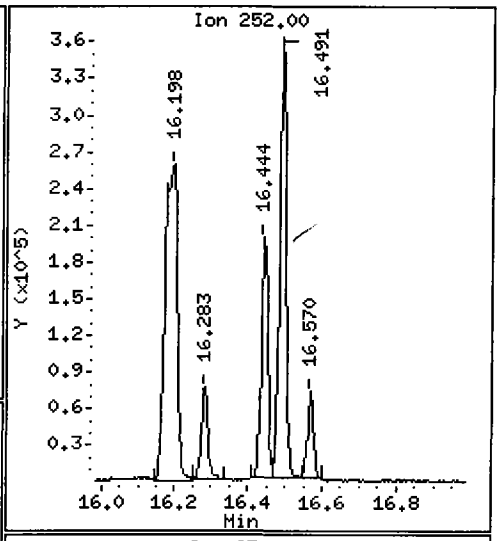
Column phase: ZB-5msi

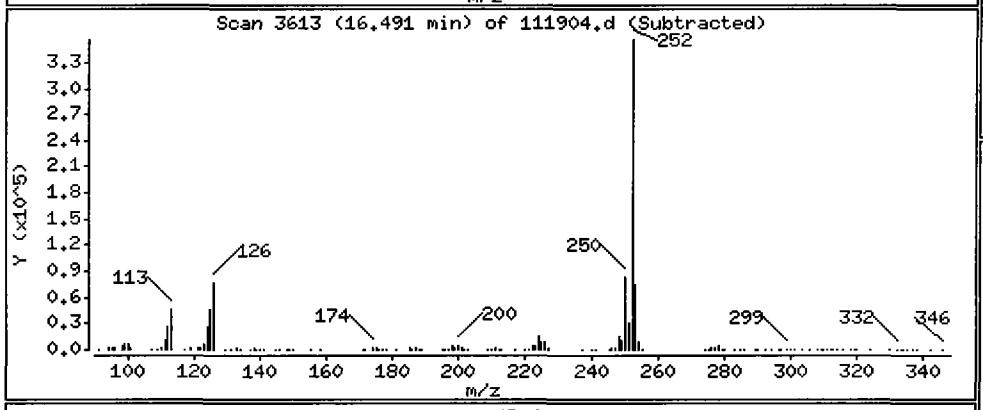
Column diameter: 0.25

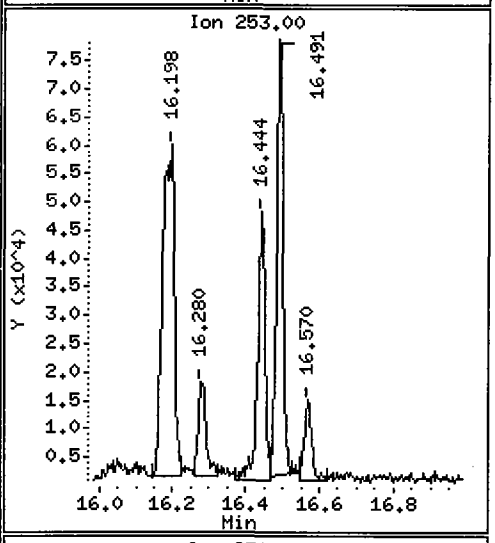
30 Benzo(a)pyrene

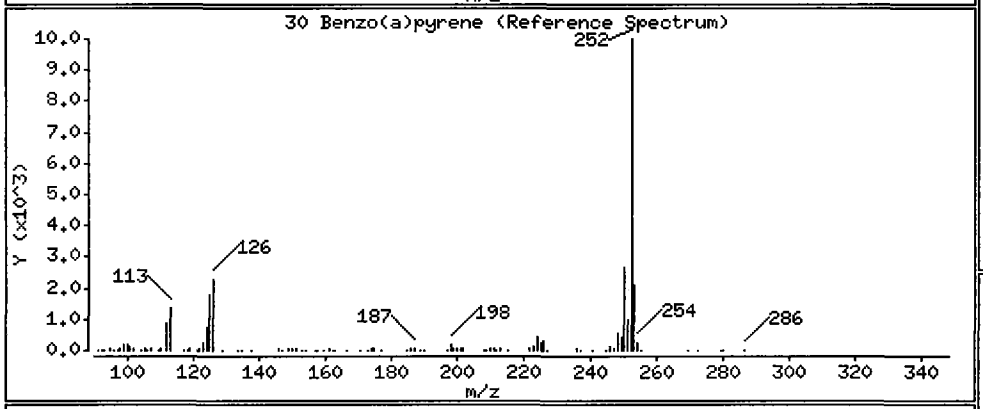
Concentration: 456.3 ug/kg

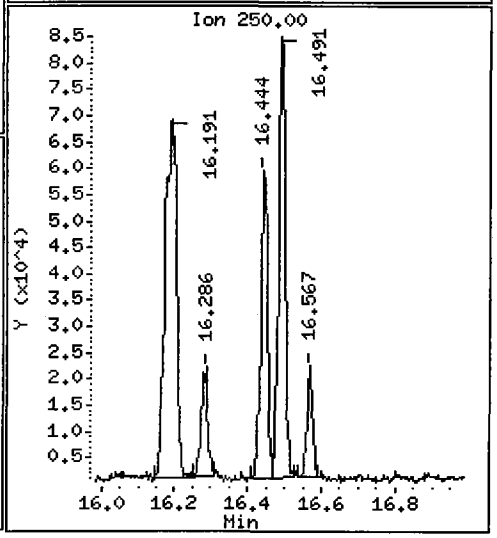


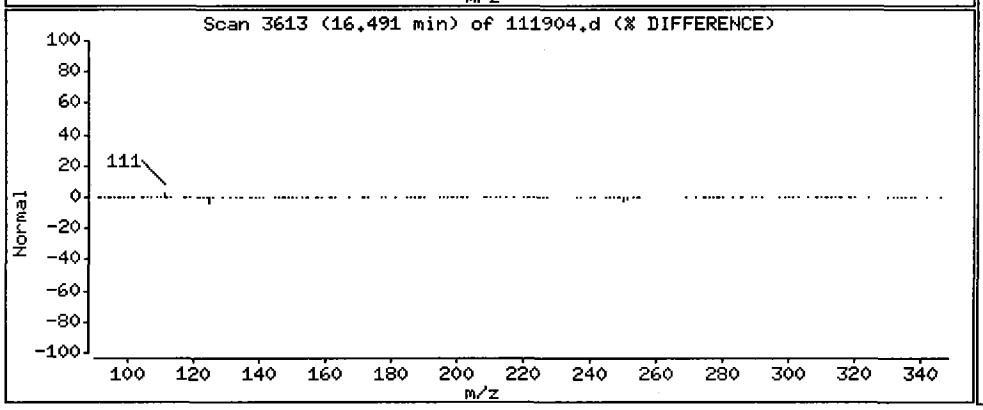












Data File: /chem3/nt2.i/20091119.b/111904.d

Date : 19-NOV-2009 13:49

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A,3

Volume Injected (uL): 1.0

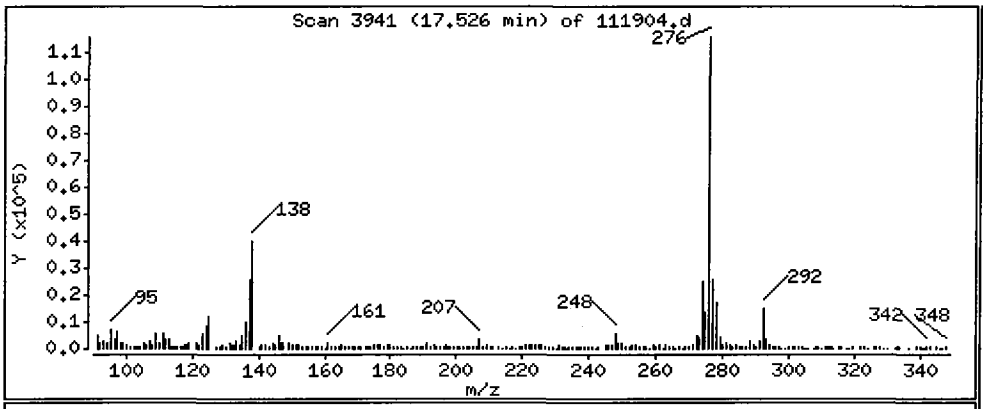
Operator: VTS

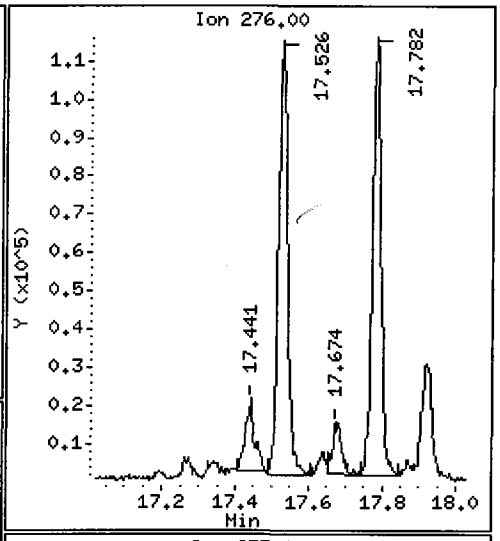
Column phase: ZB-5msi

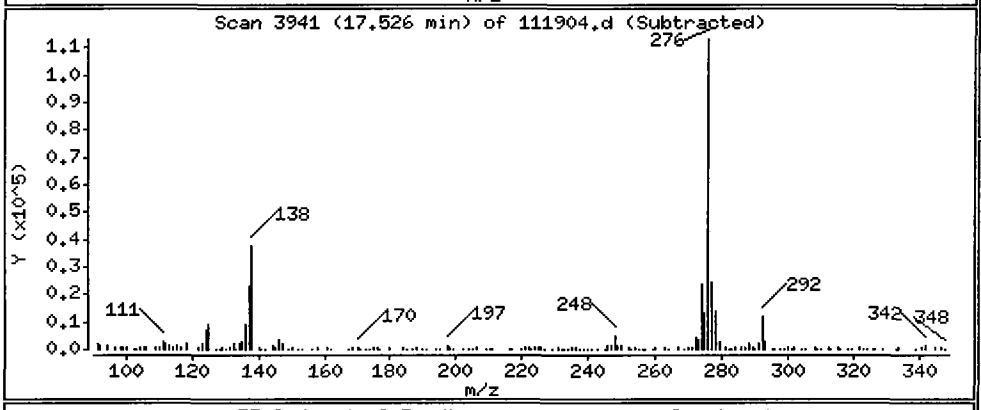
Column diameter: 0.25

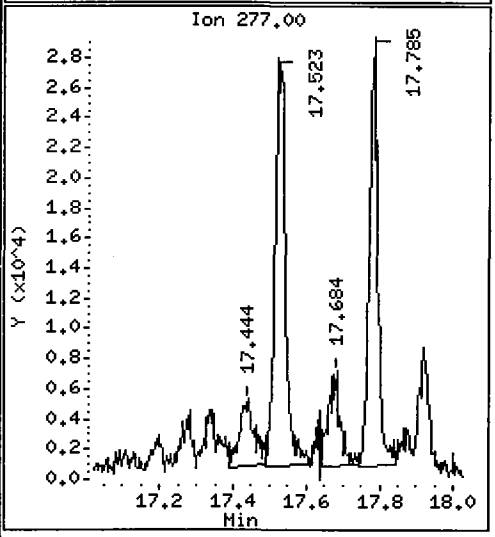
33 Indeno(1,2,3-cd)pyrene

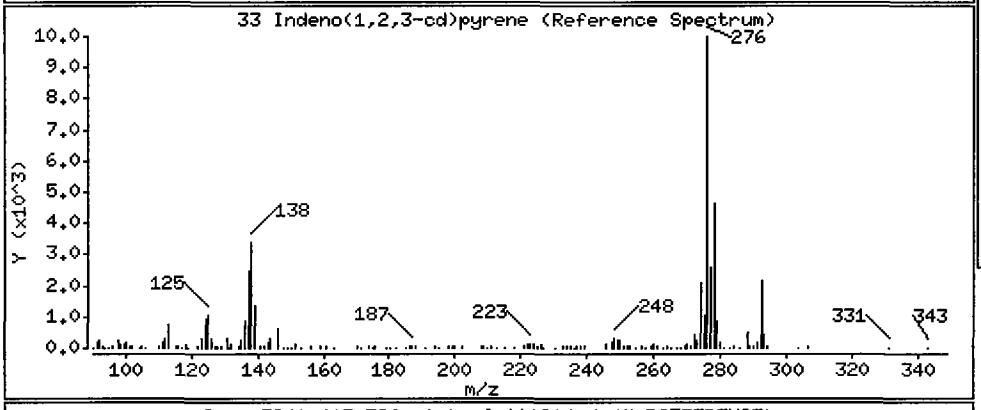
Concentration: 207.7 ug/kg

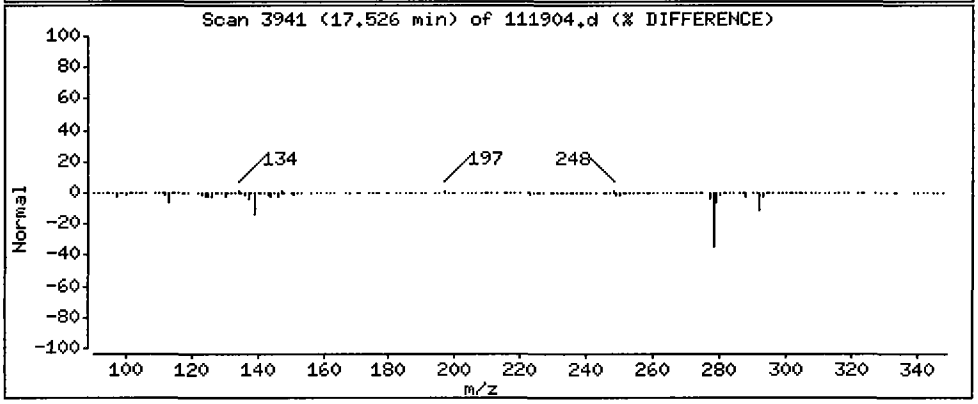












Data File: /chem3/nt2.i/20091119.b/111904.d

Date : 19-NOV-2009 13:49

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A,3

Volume Injected (uL): 1.0

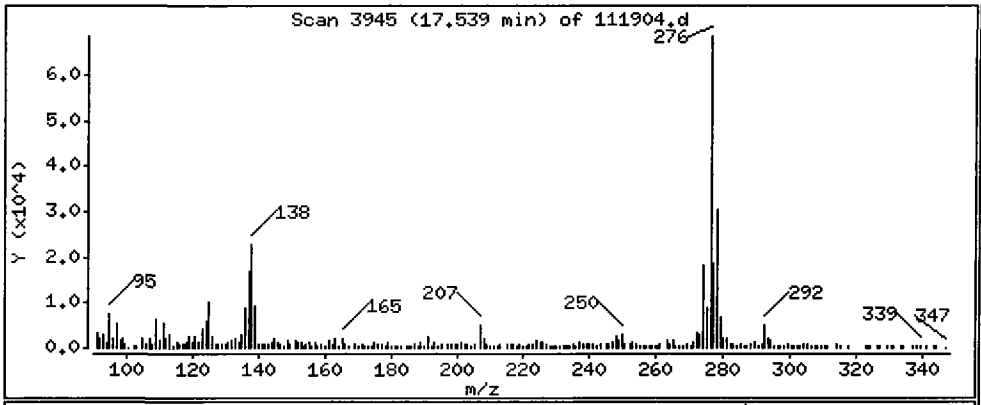
Operator: VTS

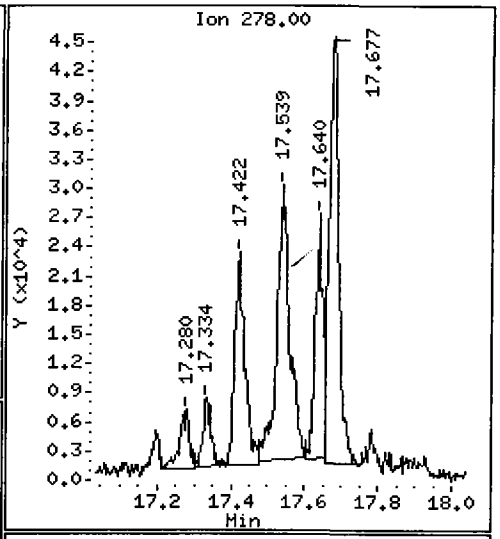
Column phase: ZB-5msi

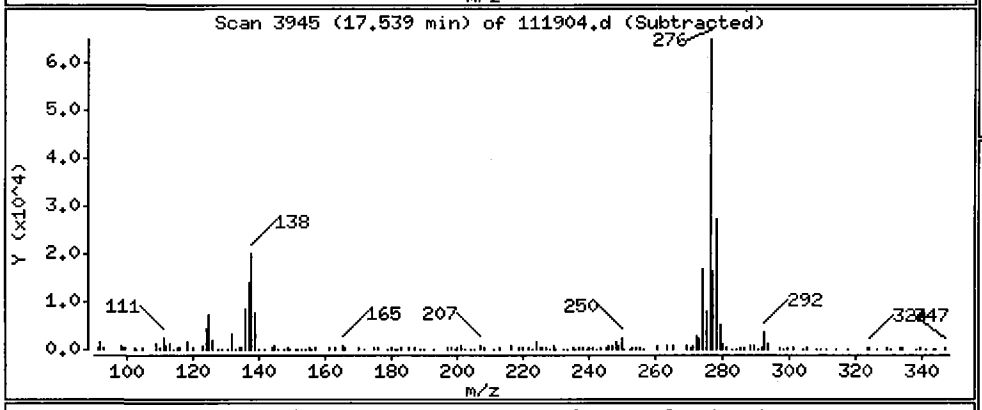
Column diameter: 0.25

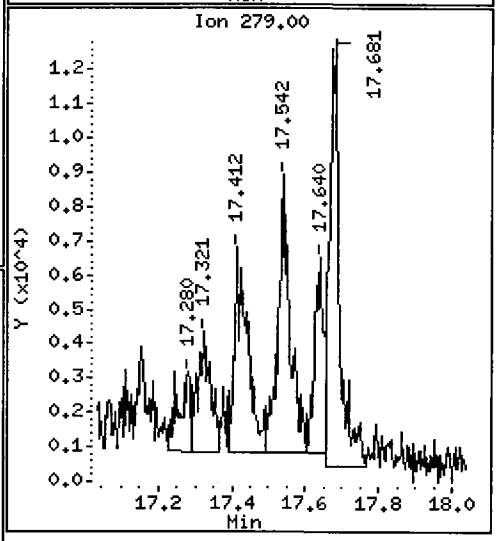
34 Dibenz(a,h)anthracene

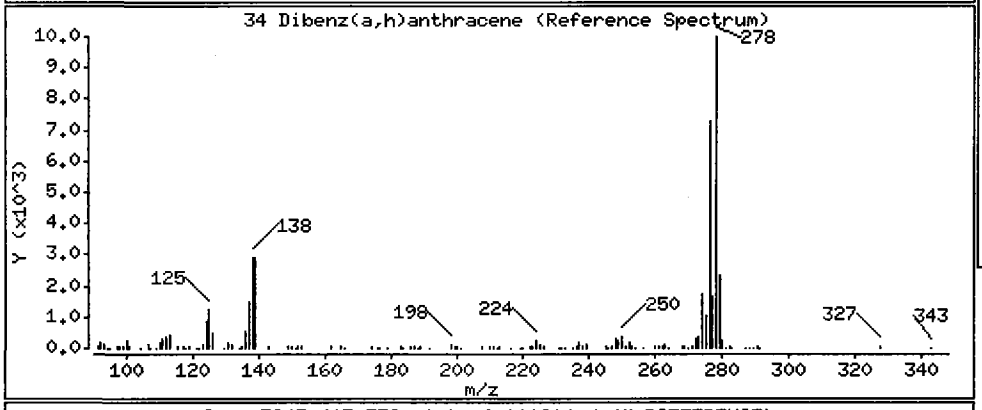
Concentration: 91.40 ug/kg

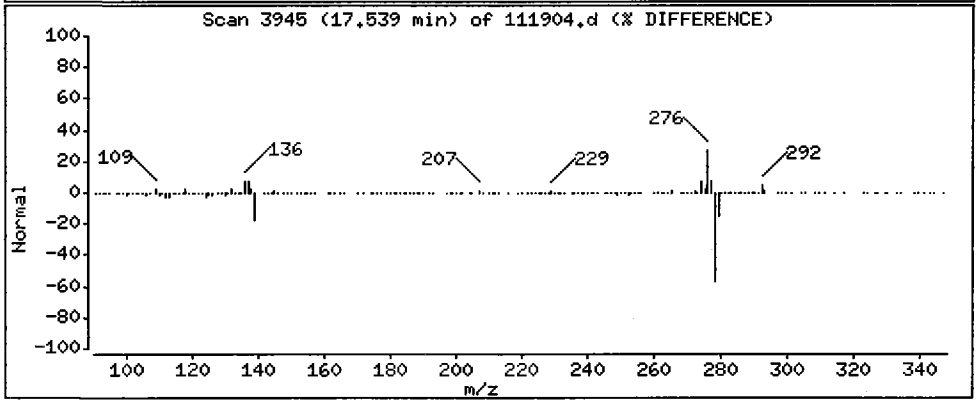












Data File: /chem3/nt2.i/20091119.b/111904.d

Date : 19-NOV-2009 13:49

Client ID: AHA-01-3NW(0-2)

Instrument: nt2.i

Sample Info: PX44A,3

Volume Injected (uL): 1.0

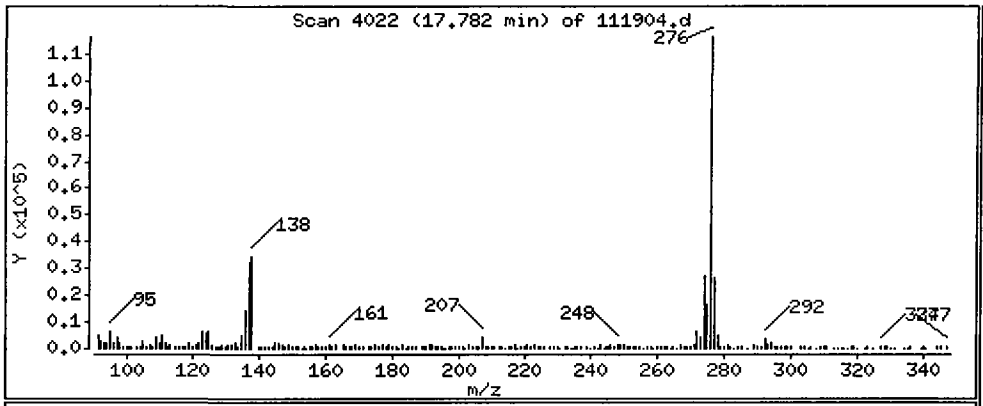
Operator: VTS

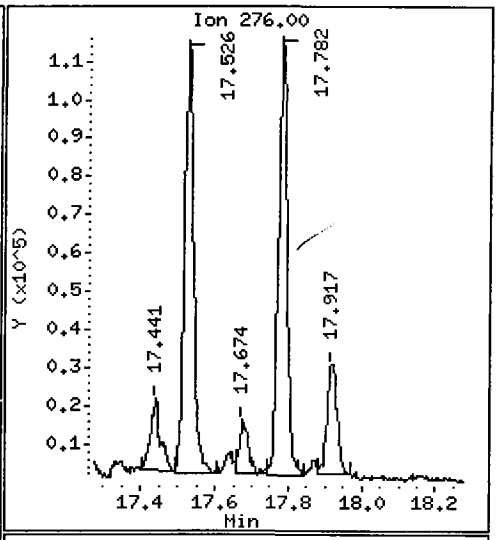
Column phase: ZB-5msi

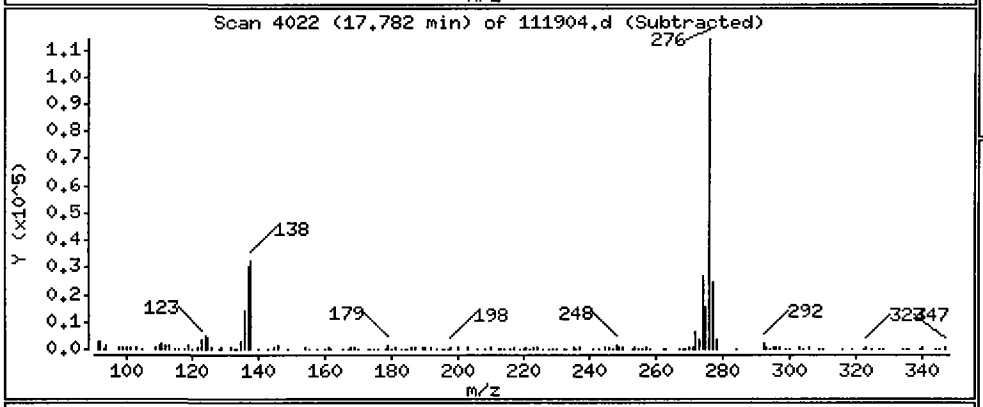
Column diameter: 0.25

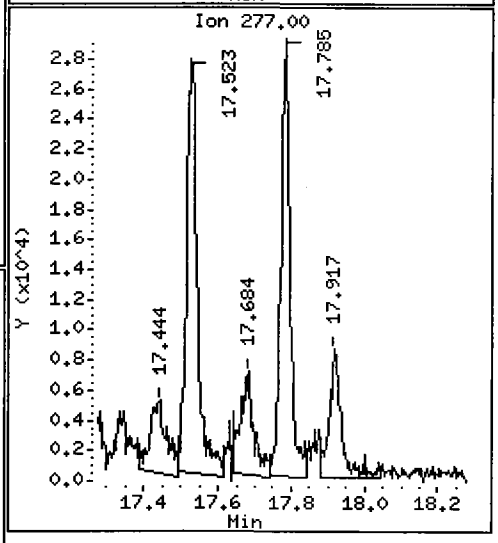
35 Benzo(g,h,i)perylene

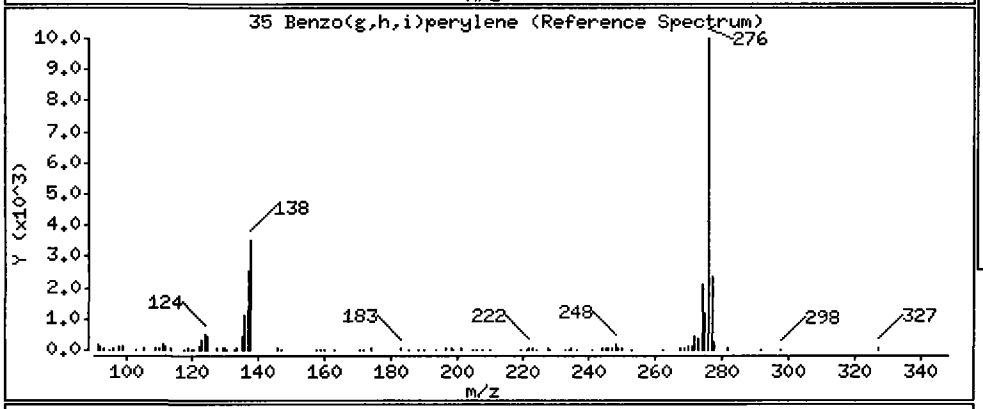
Concentration: 239.5 ug/kg

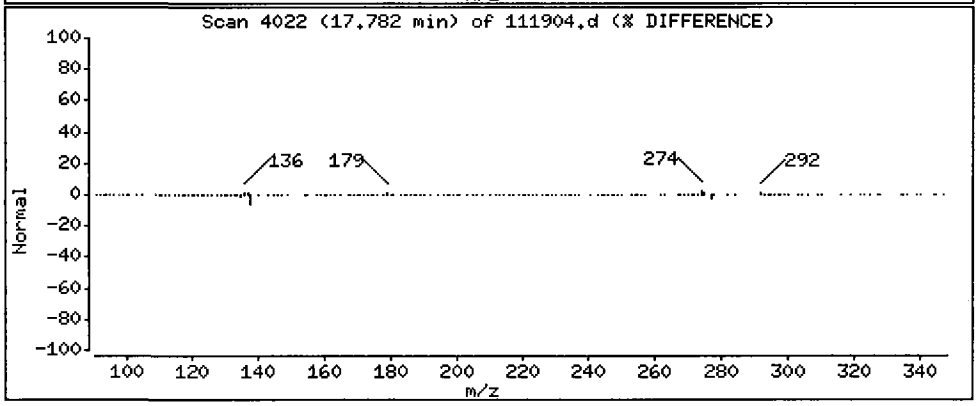












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: AHA-01-4NE(0-2)
SAMPLE

Lab Sample ID: PX44B
LIMS ID: 09-28004
Matrix: Soil
Data Release Authorized:
Reported: 11/20/09

QC Report No: PX44-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 11/16/09
Date Analyzed: 11/18/09 16:18
Instrument/Analyst: NT2/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 11.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 13.4%

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	4.5	37	
91-57-6	2-Methylnaphthalene	4.5	11	
90-12-0	1-Methylnaphthalene	4.5	5.9	
208-96-8	Acenaphthylene	4.5	160	
83-32-9	Acenaphthene	4.5	4.5	
86-73-7	Fluorene	4.5	12	
85-01-8	Phenanthrene	4.5	310	
120-12-7	Anthracene	4.5	65	
206-44-0	Fluoranthene	4.5	890	E
129-00-0	Pyrene	4.5	1,100	E
56-55-3	Benzo(a)anthracene	4.5	640	E
218-01-9	Chrysene	4.5	780	E
205-99-2	Benzo(b)fluoranthene	4.5	530	E
207-08-9	Benzo(k)fluoranthene	4.5	530	E
50-32-8	Benzo(a)pyrene	4.5	880	E
193-39-5	Indeno(1,2,3-cd)pyrene	4.5	330	
53-70-3	Dibenz(a,h)anthracene	4.5	160	
191-24-2	Benzo(g,h,i)perylene	4.5	330	
132-64-9	Dibenzofuran	4.5	5.9	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	60.0%
d14-Dibenzo(a,h)anthracen	63.0%

Analytical Resources, Inc.

METHOD SW8270D-SIM

Data file : /chem3/nt2.i/20091118.b/111815.d
Lab Smp Id: PX44B Client Smp ID: AHA-01-4NE(0-2)
Inj Date : 18-NOV-2009 16:18
Operator : VTS Inst ID: nt2.i
Smp Info : PX44B
Misc Info : 09-28004
Comment : 1ul Injection
Method : /chem3/nt2.i/20091118.b/simpna.m
Meth Date : 19-Nov-2009 10:30 peter Quant Type: ISTD
Cal Date : 02-NOV-2009 18:35 Cal File: ic110206.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

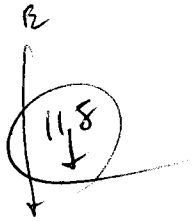
Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	12.80000	Weight of sample extracted (g)
M	13.40000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	1 Naphthalene-d8	136	5.876	5.872	(1.000)	383597	2.00000	
	2 Naphthalene	128	5.905	5.903	(1.005)	157759	0.82799	37.35
$	3 2-Methylnaphthalene-d10	152	6.936	6.929	(1.180)	184368	1.79674	81.05
	4 2-Methylnaphthalene	142	6.984	6.979	(1.188)	28534	0.25022	11.29
	5 1-Methylnaphthalene	142	7.151	7.143	(1.217)	14373	0.12784	5.766
	7 Acenaphthylene	152	8.407	8.399	(0.972)	578813	3.43243	154.8
*	8 Acenaphthene-d10	164	8.653	8.652	(1.000)	192013	2.00000	
	9 Acenaphthene	153	8.700	8.702	(1.005)	10059	0.09733	4.390
	10 Dibenzofuran	168	8.959	8.958	(1.035)	18684	0.13314	6.005
	11 Fluorene	166	9.514	9.510	(1.100)	31290	0.27041	12.20(M)
*	15 Phenanthrene-d10	188	11.004	10.999	(1.000)	286023	2.00000	
	16 Phenanthrene	178	11.039	11.037	(1.003)	1137802	6.92189	312.2
	17 Anthracene	178	11.111	11.104	(1.010)	234360	1.44099	65.00
	19 Fluoranthene	202	12.963	12.953	(1.178)	3345789	19.6651	887.0

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	13.298	13.287	(0.884)	5102260	25.1123	1133
	22 Benzo(a)anthracene	228	15.018	15.001	(0.999)	2595823	14.1620	638.8
*	23 Chrysene-d12	240	15.037	15.019	(1.000)	314923	2.00000	
	24 Chrysene	228	15.068	15.054	(1.002)	3141105	17.2888	779.8
	28 Benzo(b)fluoranthene	252	16.296	16.256	(0.979)	4236735	24.8582	1121
	29 Benzo(k)fluoranthene	252	16.296	16.282	(0.979)	4236735	22.2367	1003
	30 Benzo(a)pyrene	252	16.595	16.572	(0.997)	2795284	19.4574	877.7
*	31 Perylene-d12	264	16.643	16.626	(1.000)	287242	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.652	17.626	(1.061)	1071949	7.40491	334.0
$	32 Dibenz(a,h)anthrancene-d14	292	17.630	17.607	(1.059)	170321	1.89269	85.37(M)
	34 Dibenz(a,h)anthracene	278	17.656	17.639	(1.061)	396324	3.53430	159.4
	35 Benzo(g,h,i)perylene	276	17.914	17.885	(1.076)	883480	7.34872	331.5



QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: 111815.d
Lab Smp Id: PX44B
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20091118.b/simpna.m
Misc Info: 09-28004

Calibration Date: 18-NOV-2009
Calibration Time: 09:53
Client Smp ID: AHA-01-4NE(0-2)
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	353094	176547	706188	383597	8.64
8 Acenaphthene-d10	172751	86376	345502	192013	11.15
15 Phenanthrene-d10	254451	127226	508902	286023	12.41
23 Chrysene-d12	238407	119204	476814	314923	32.09
31 Perylene-d12	207102	103551	414204	287242	38.70

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	5.87	5.37	6.37	5.88	0.07
8 Acenaphthene-d10	8.65	8.15	9.15	8.65	0.01
15 Phenanthrene-d10	11.00	10.50	11.50	11.00	0.04
23 Chrysene-d12	15.02	14.52	15.52	15.04	0.11
31 Perylene-d12	16.63	16.13	17.13	16.64	0.10

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA
Sample Matrix: SOLID
Lab Smp Id: PX44B
Level: LOW
Data Type: MS DATA
SpikeList File: soillcs.spk
Sublist File: pna1mn.sub
Method File: /chem3/nt2.i/20091118.b/simpna.m
Misc Info: 09-28004

Client SDG: PX44
Fraction: SV
Client Smp ID: AHA-01-4NE(0-2)
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

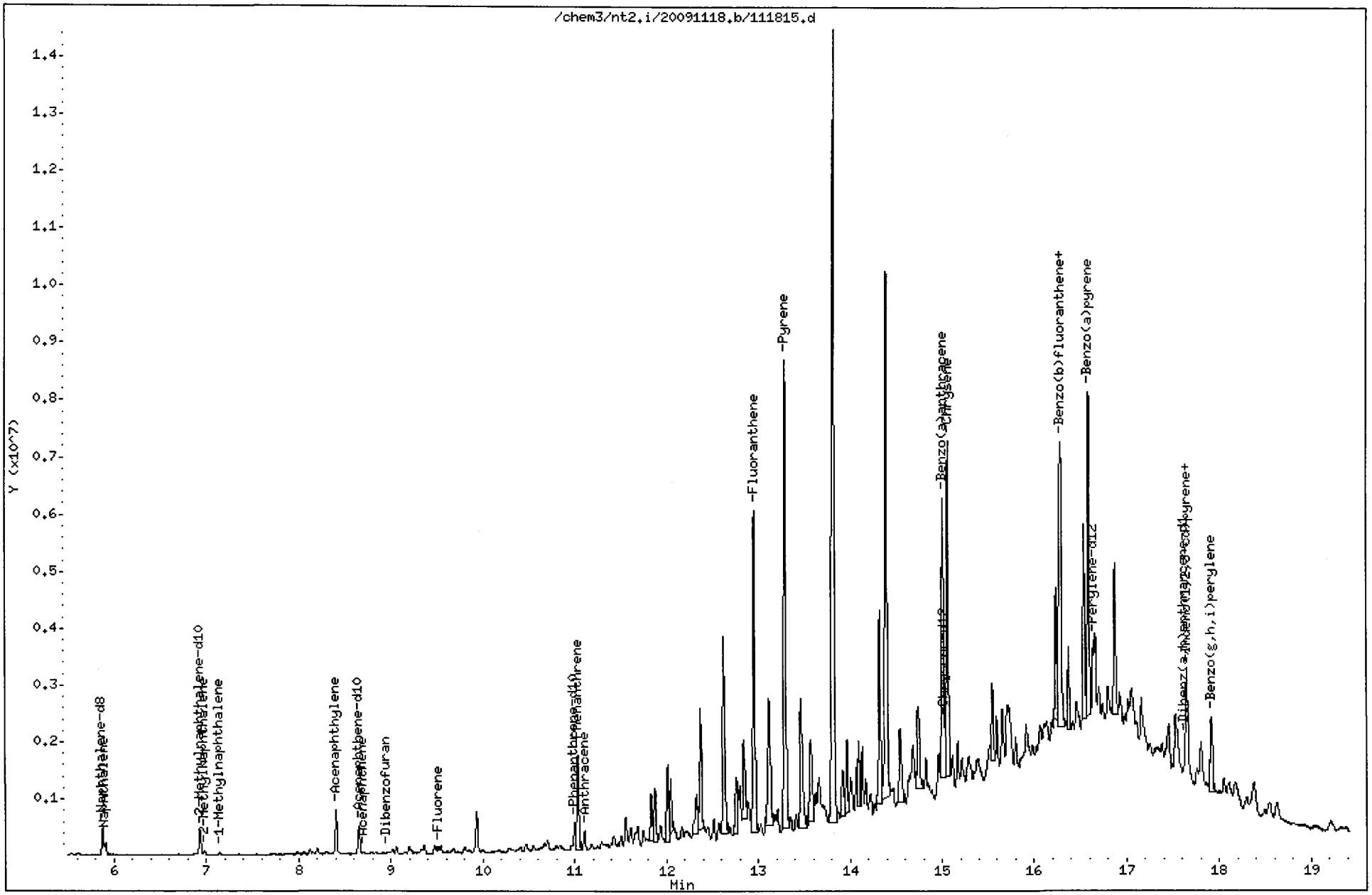
SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	135.3	81.05	59.89	34-100
$ 32 Dibenz(a,h)anthran	135.3	85.37	63.09	10-117

Data File: /chem3/nt2.i/20091118.b/111815.d
Date : 18-NOV-2009 16:18
Client ID: AHA-01-4NE(0-2)
Sample Info: PX44B
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25

PX44 : 00095



Data File: /chem3/nt2.i/20091118.b/111815.d

Date : 18-NOV-2009 16:18

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B

Volume Injected (uL): 1.0

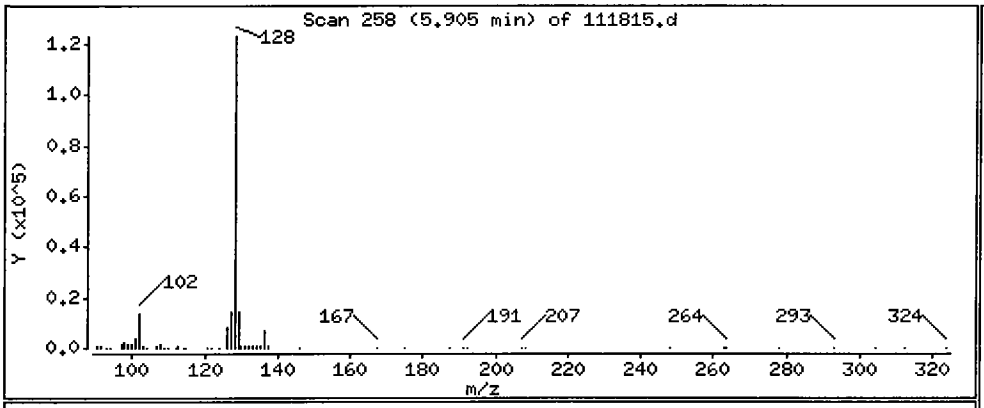
Operator: VTS

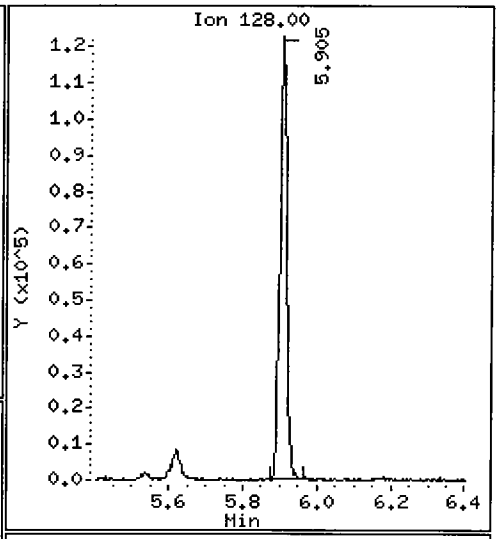
Column phase: ZB-5msi

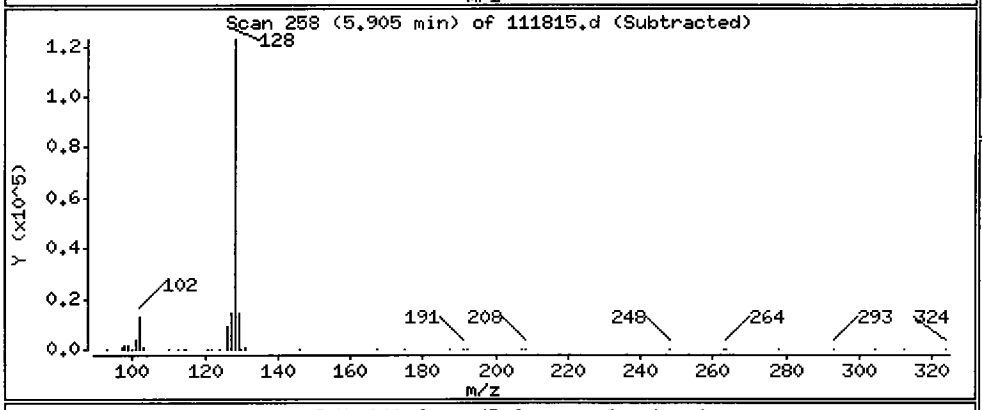
Column diameter: 0.25

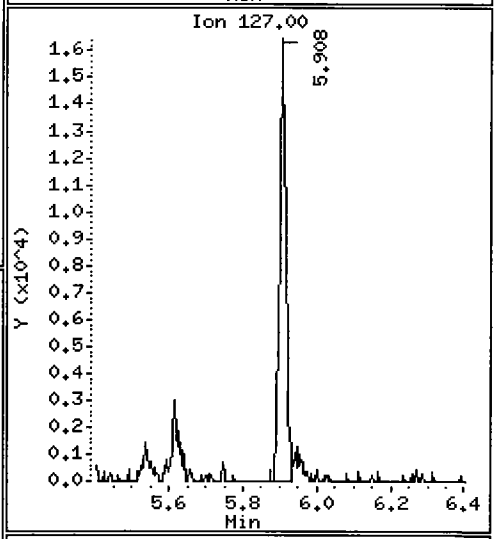
2 Naphthalene

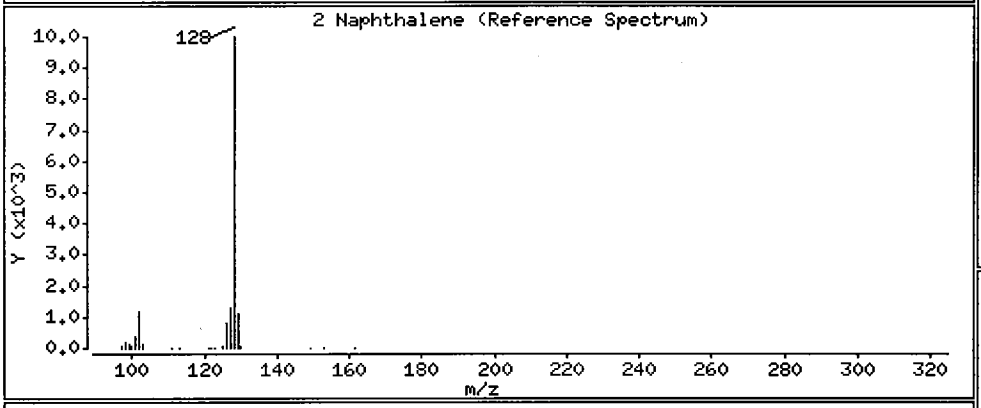
Concentration: 37.35 ug/kg

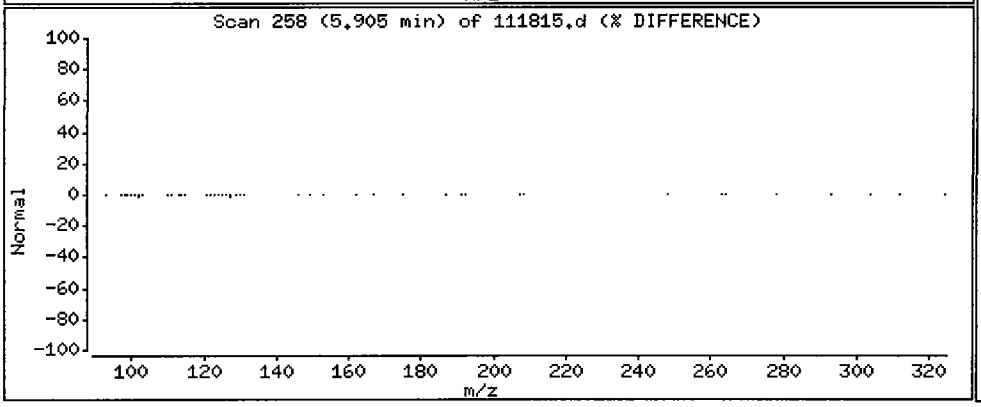


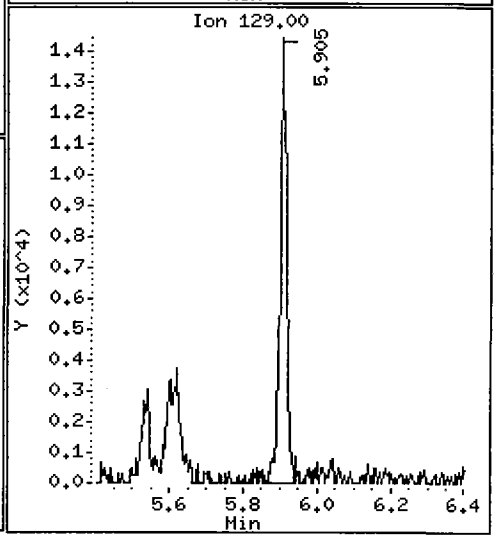












Data File: /chem3/nt2.i/20091118.b/111815.d

Date : 18-NOV-2009 16:18

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B

Volume Injected (uL): 1.0

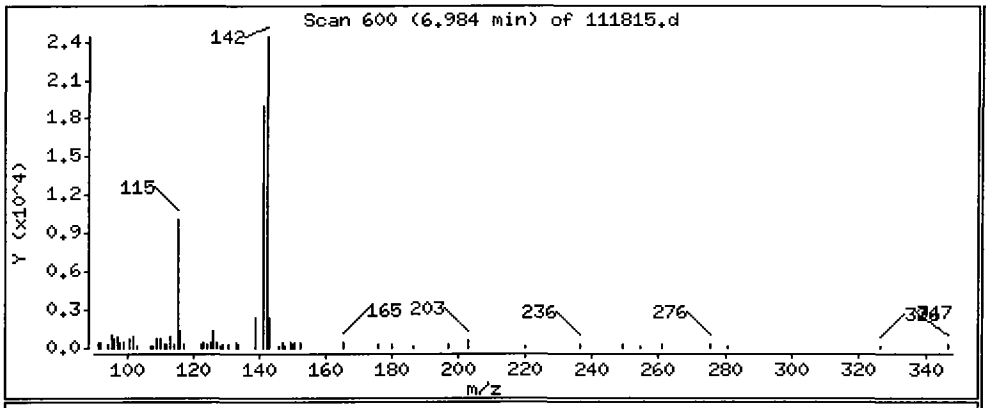
Operator: VTS

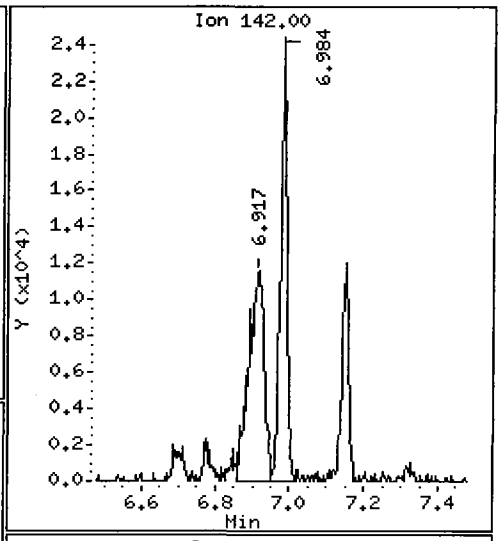
Column phase: ZB-5msi

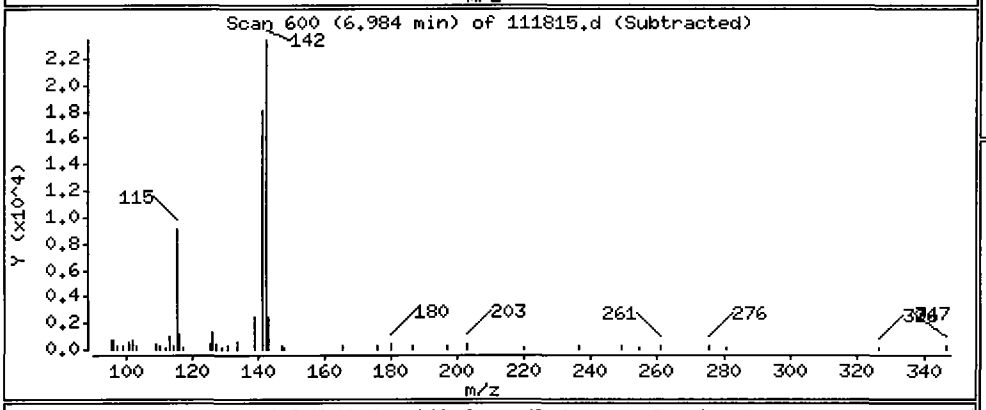
Column diameter: 0.25

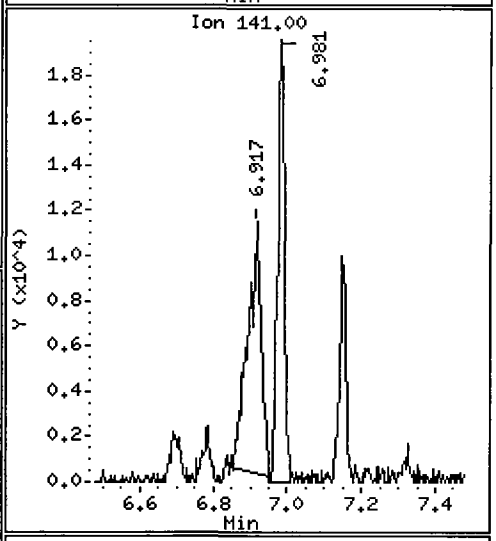
4 2-Methylnaphthalene

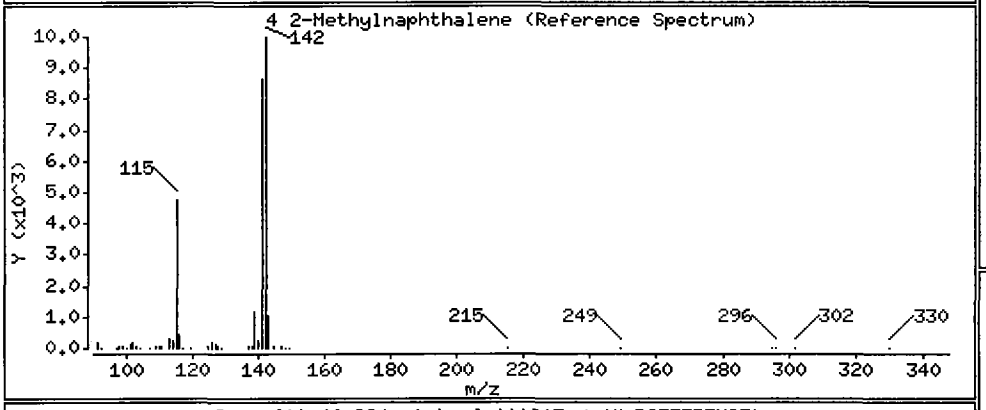
Concentration: 11.29 ug/kg

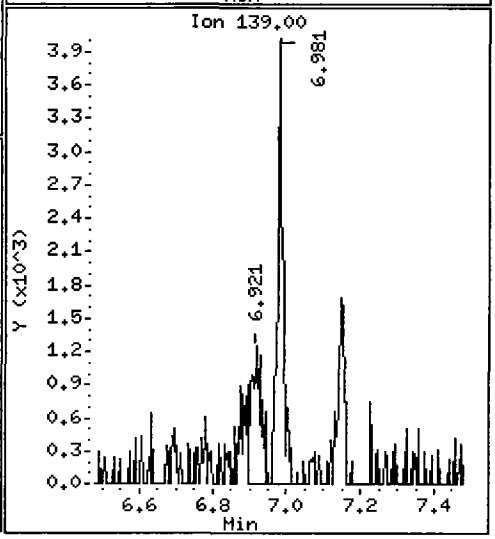


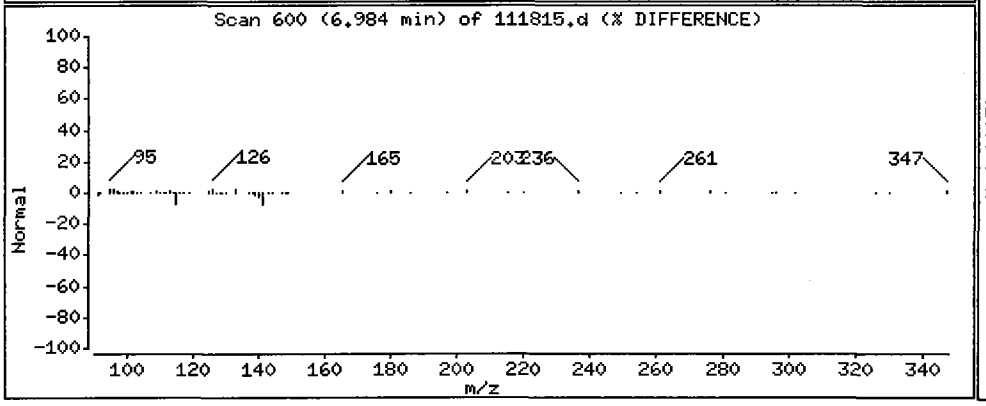












Data File: /chem3/nt2.i/20091118.b/111815.d

Date : 18-NOV-2009 16:18

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B

Volume Injected (uL): 1.0

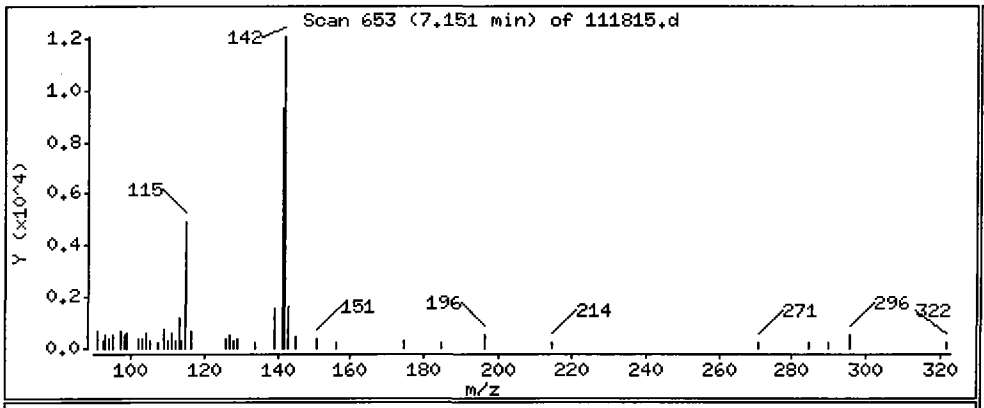
Operator: VTS

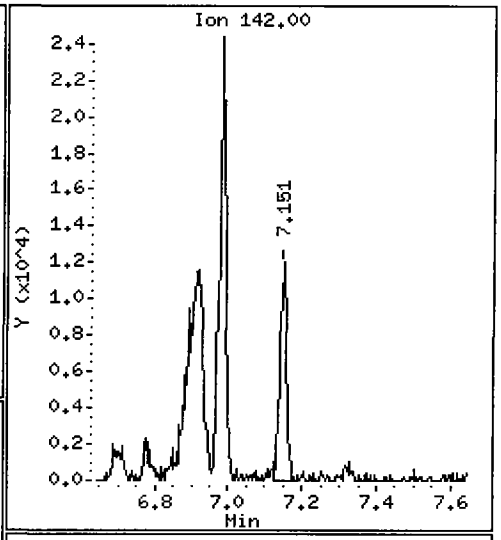
Column phase: ZB-5msi

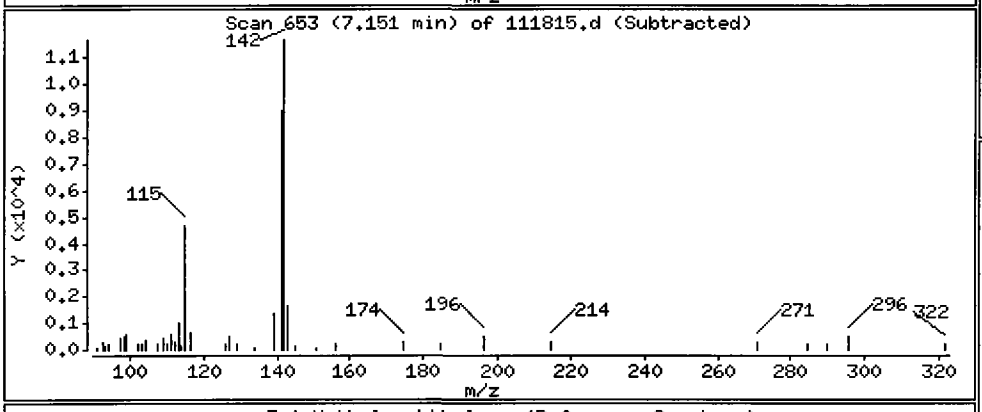
Column diameter: 0.25

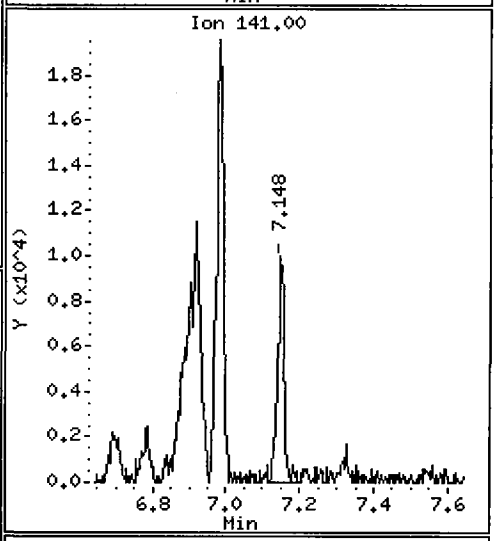
5 1-Methylnaphthalene

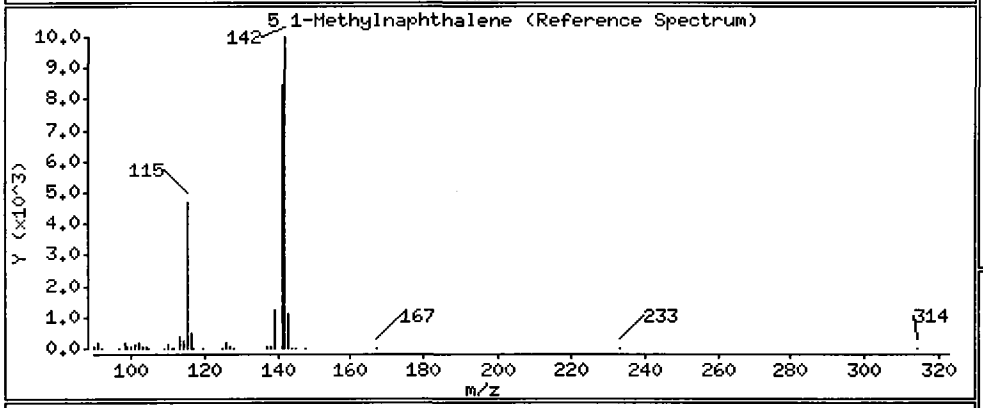
Concentration: 5.766 ug/kg

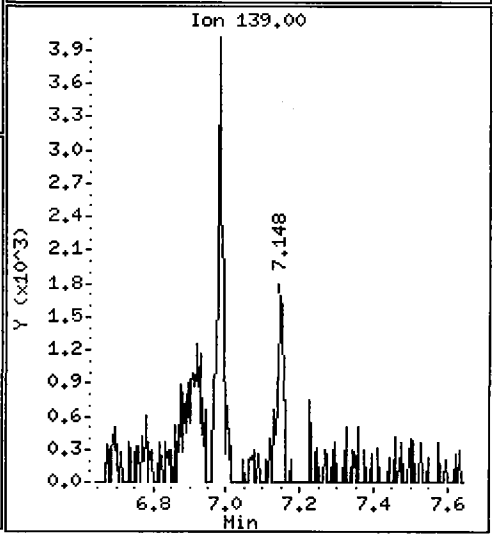


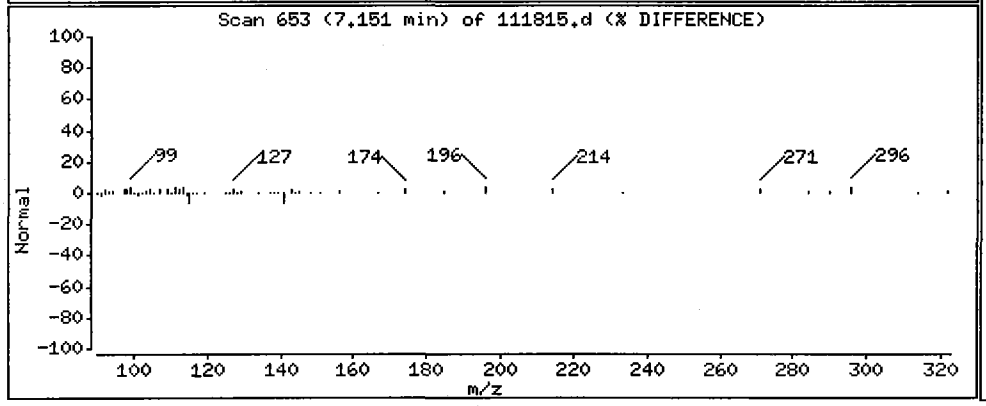












Data File: /chem3/nt2.i/20091118.b/111815.d

Date : 18-NOV-2009 16:18

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B

Volume Injected (uL): 1.0

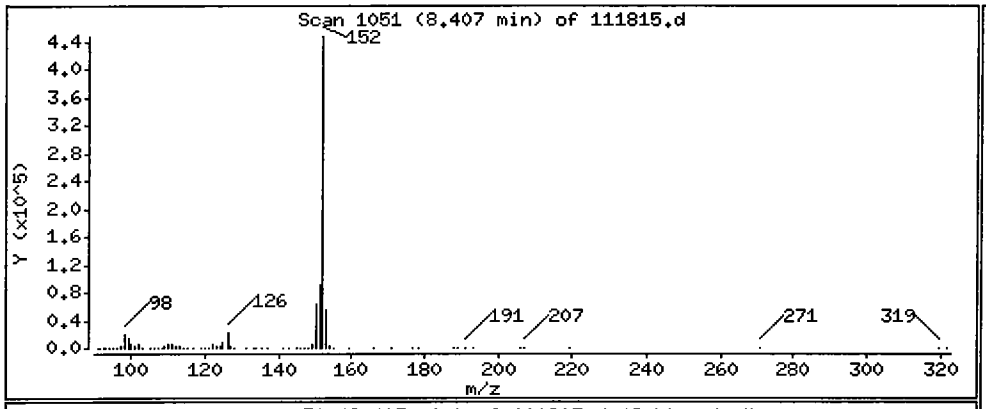
Operator: VTS

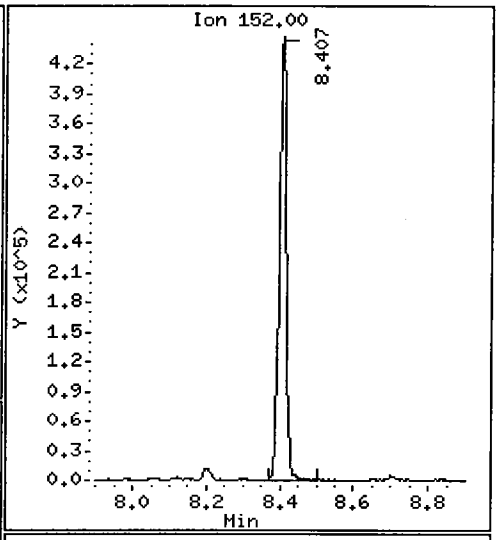
Column phase: ZB-5msi

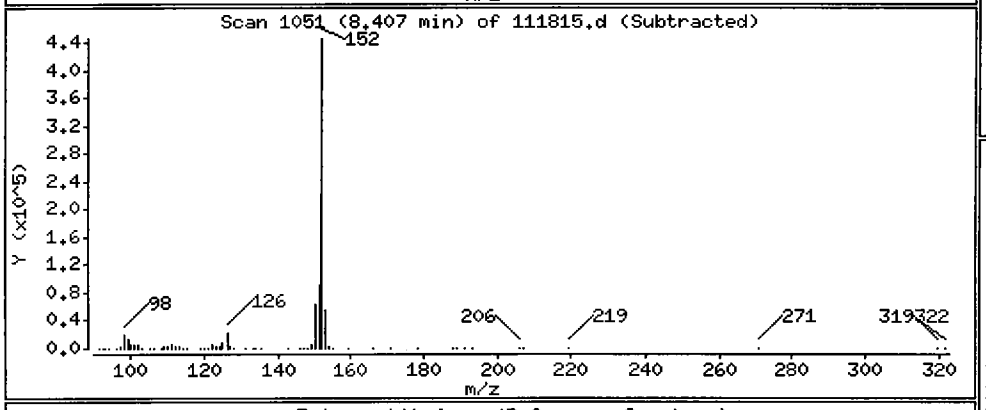
Column diameter: 0.25

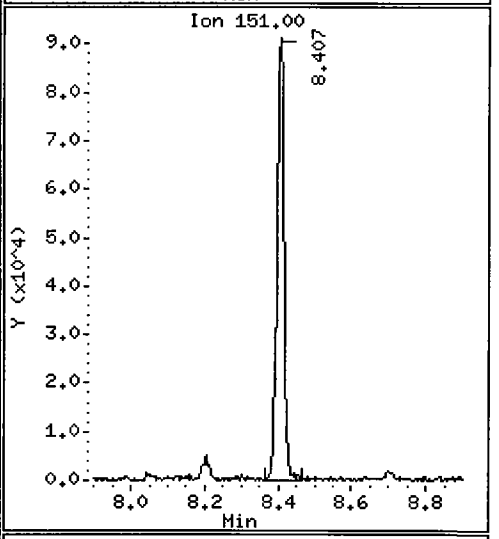
7 Acenaphthylene

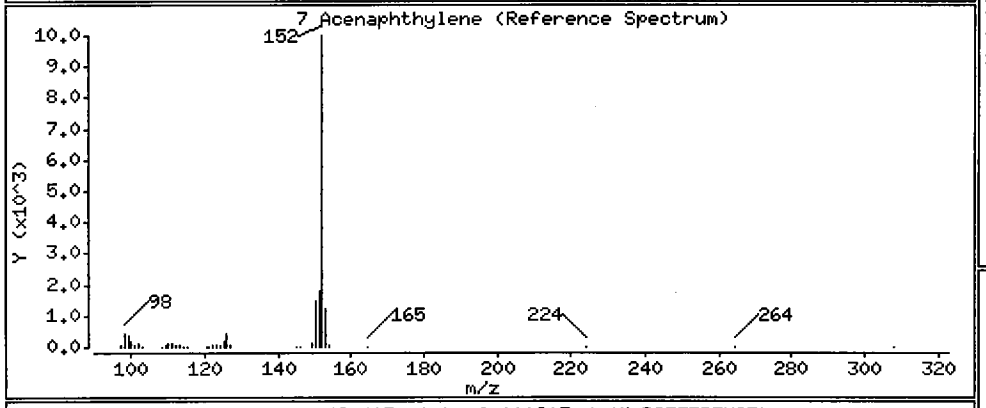
Concentration: 154.8 ug/kg

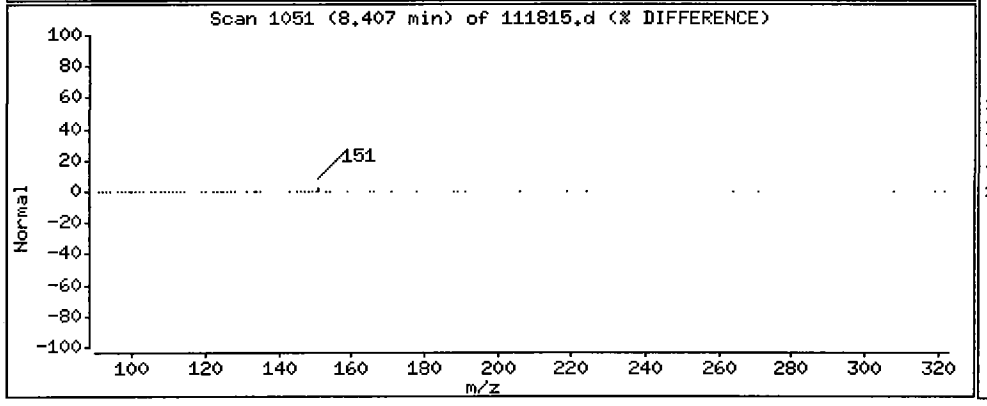


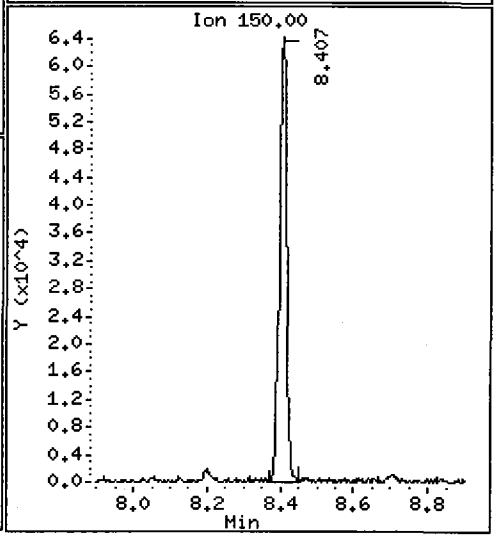












Data File: /chem3/nt2.i/20091118.b/111815.d

Date : 18-NOV-2009 16:18

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B

Volume Injected (uL): 1.0

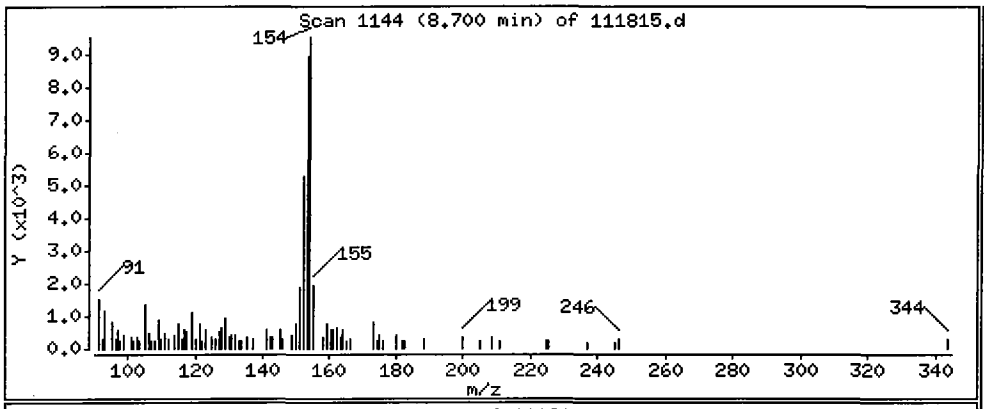
Operator: VTS

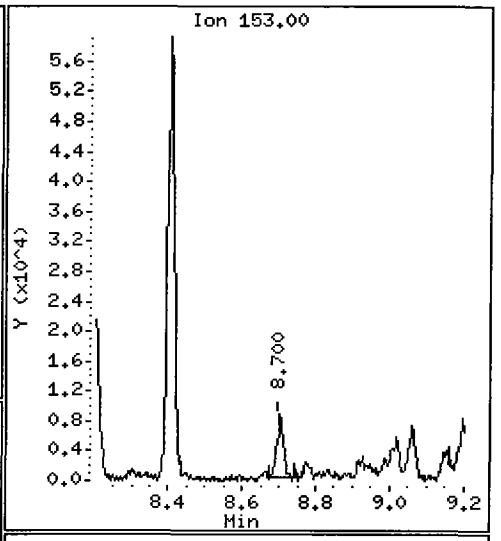
Column phase: ZB-5msi

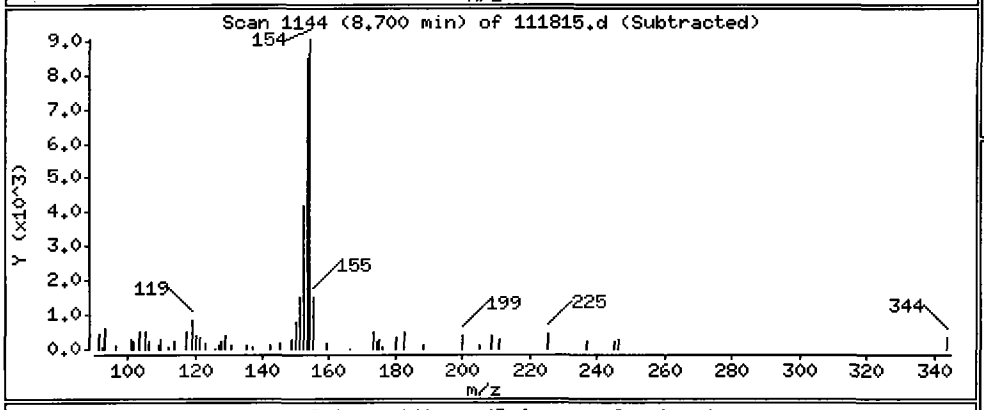
Column diameter: 0.25

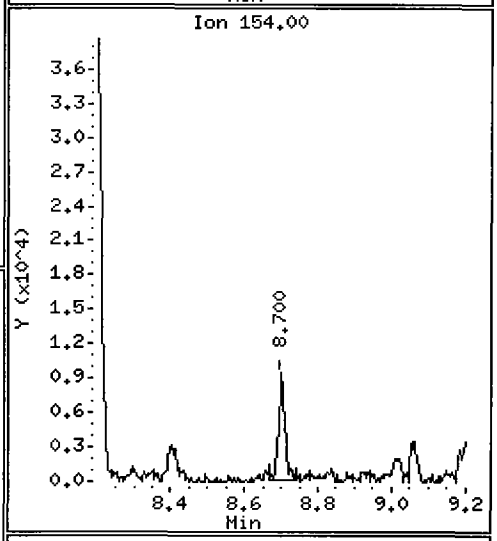
9 Acenaphthene

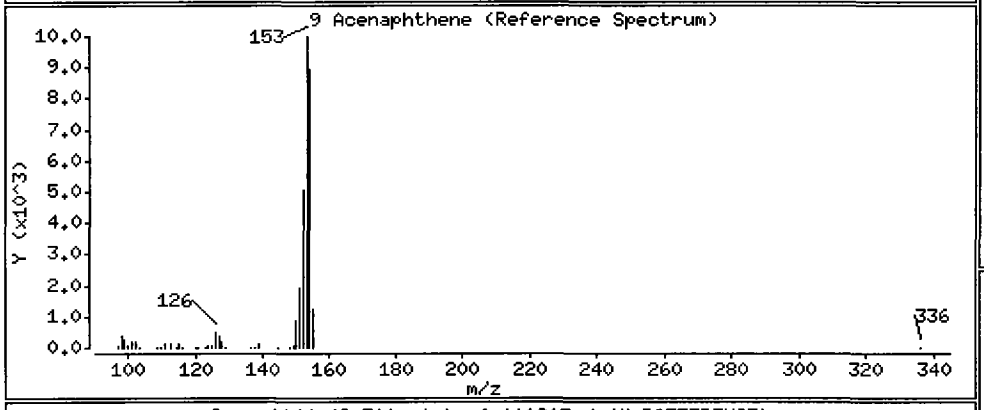
Concentration: 4.390 ug/kg

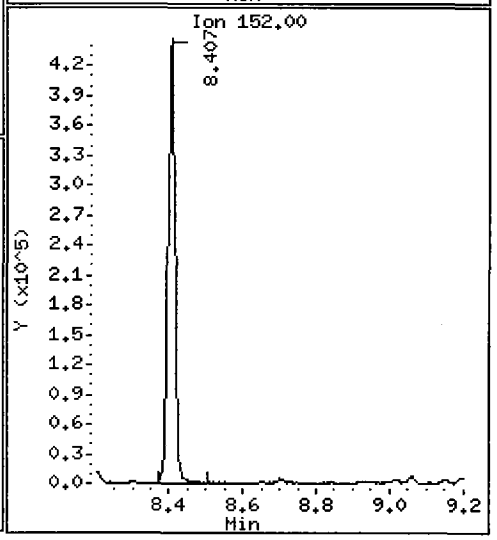


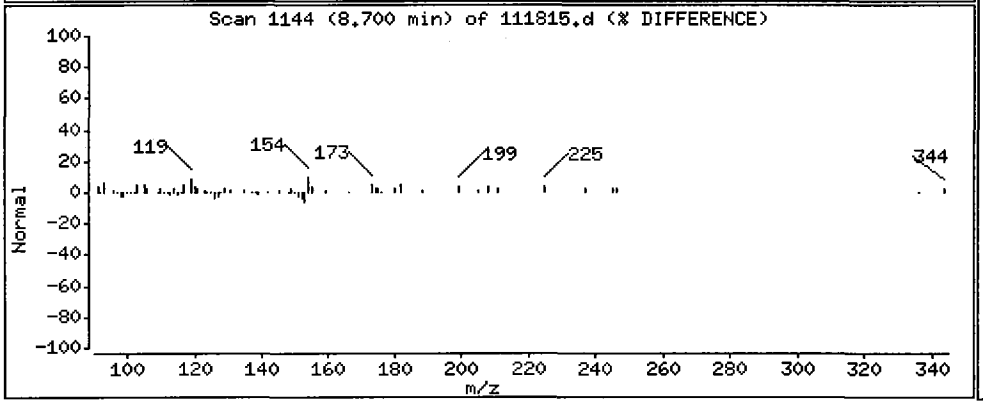












Data File: /chem3/nt2.i/20091118.b/111815.d

Date : 18-NOV-2009 16:18

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B

Volume Injected (uL): 1.0

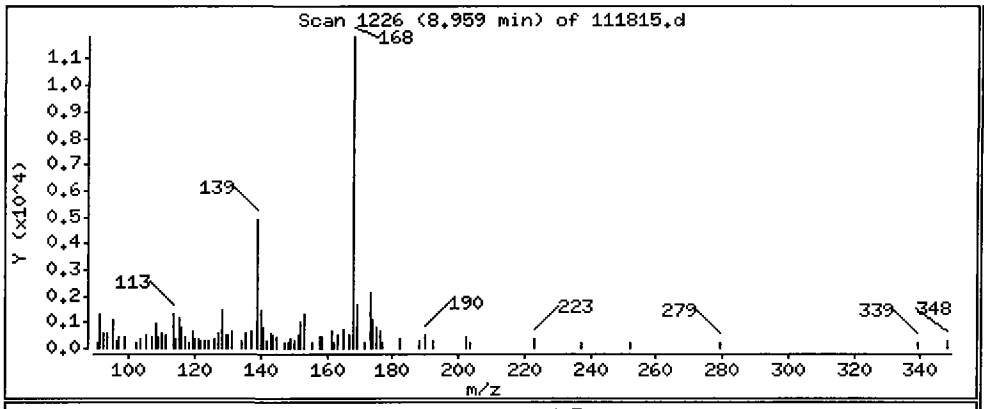
Operator: VTS

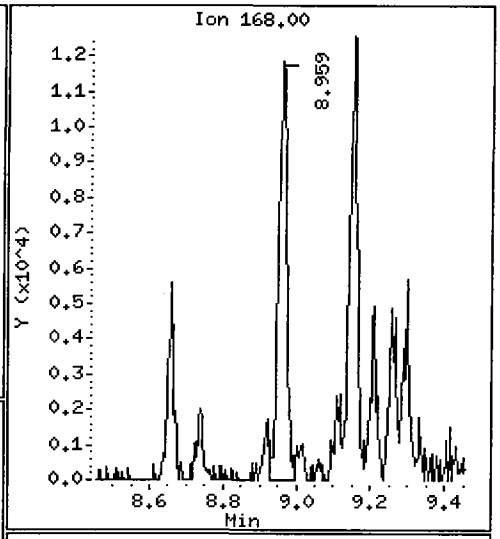
Column phase: ZB-5msi

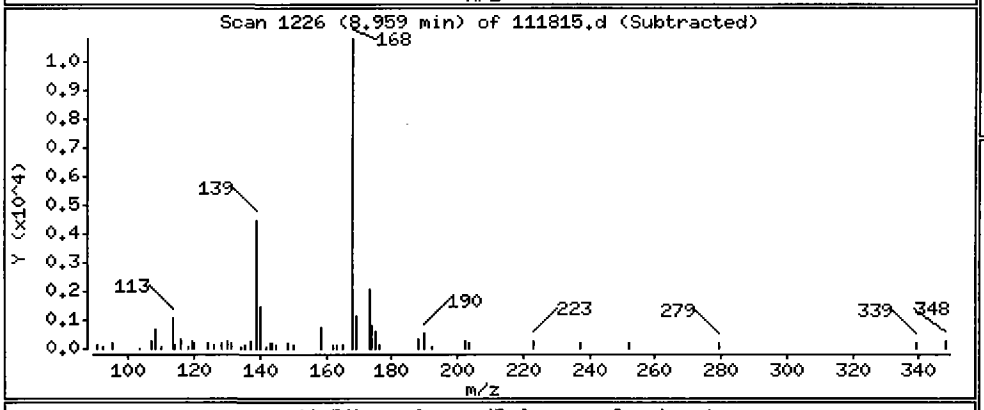
Column diameter: 0.25

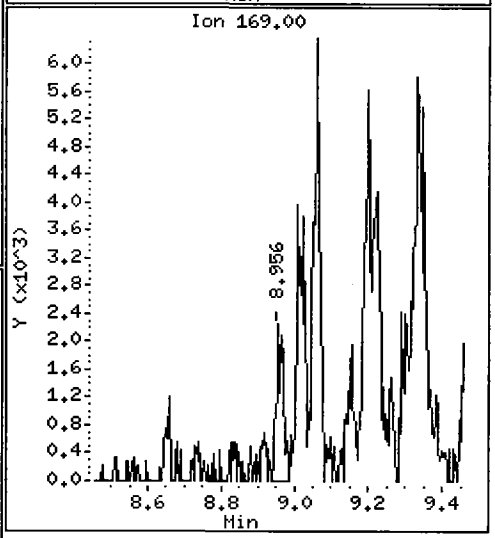
10 Dibenzofuran

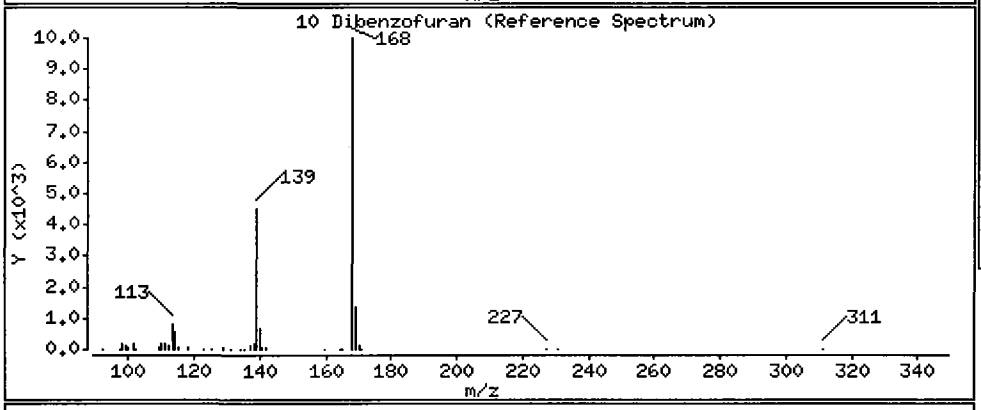
Concentration: 6.005 ug/kg

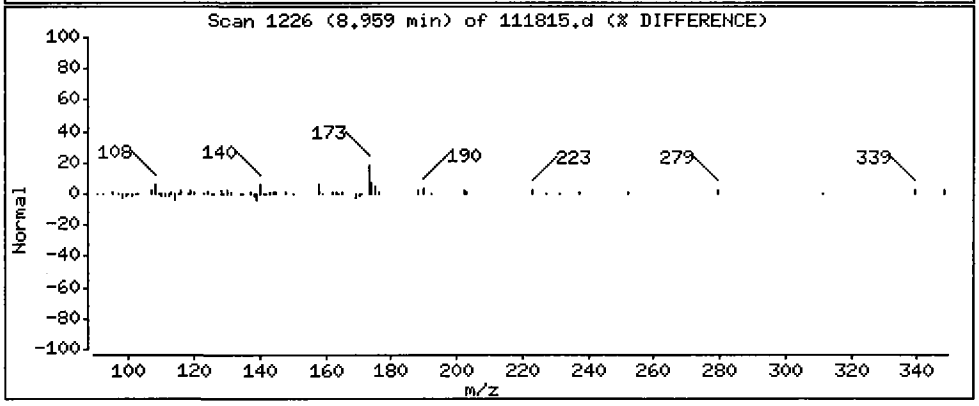












Data File: /chem3/nt2.i/20091118.b/111815.d

Date : 18-NOV-2009 16:18

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B

Volume Injected (uL): 1.0

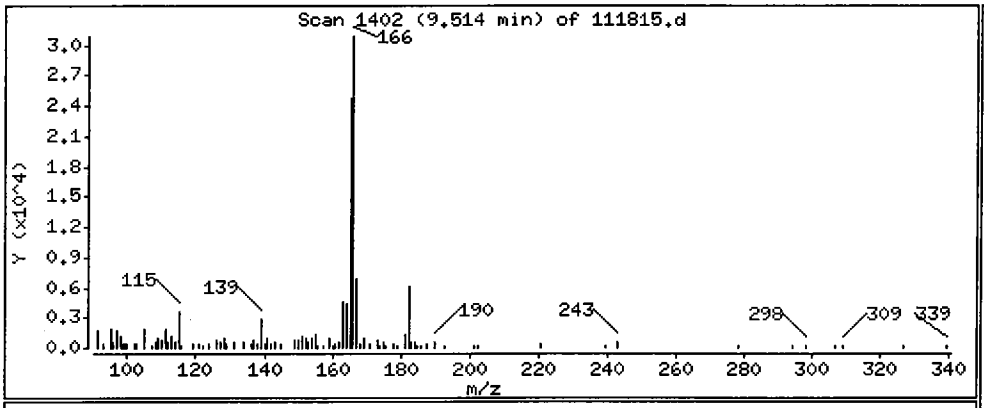
Operator: VTS

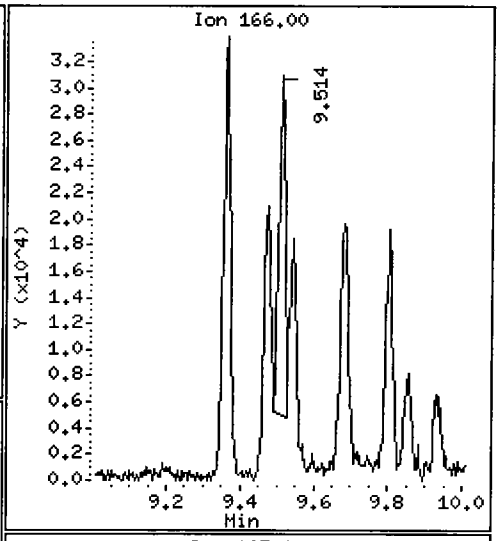
Column phase: ZB-5msi

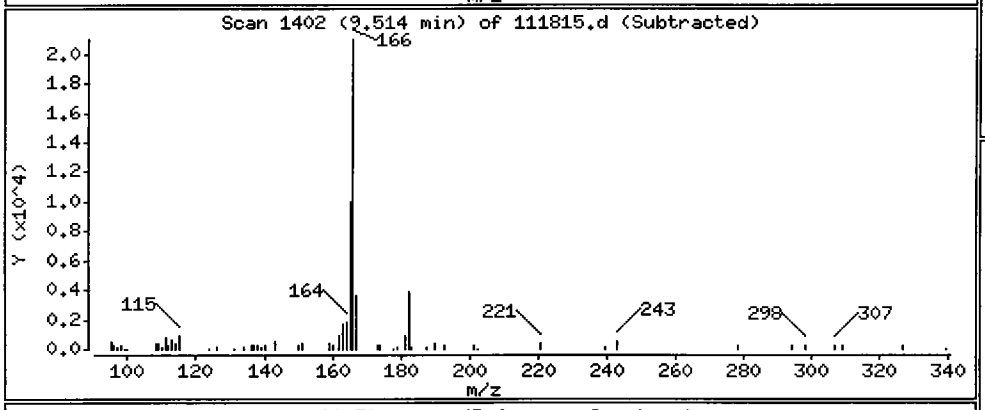
Column diameter: 0.25

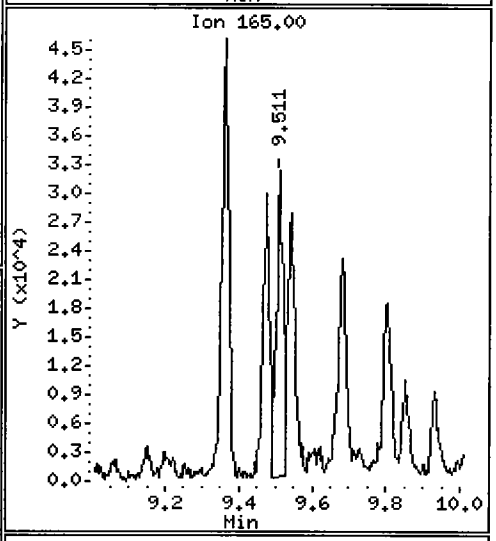
11 Fluorene

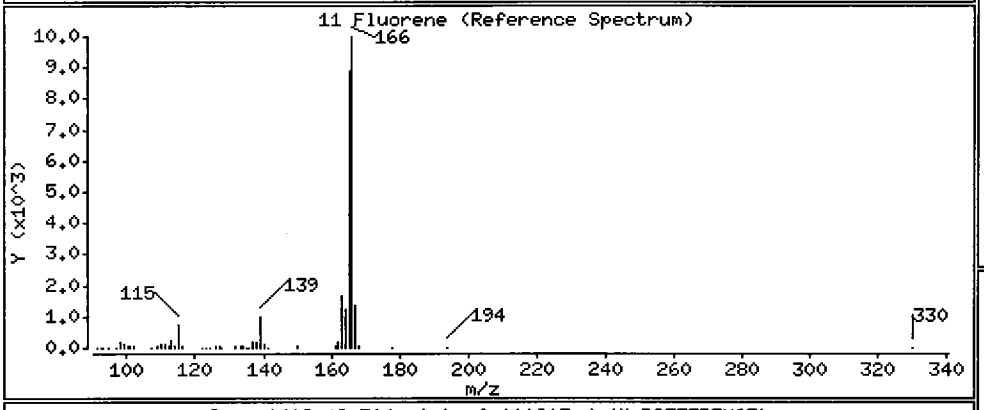
Concentration: 12.20 ug/kg

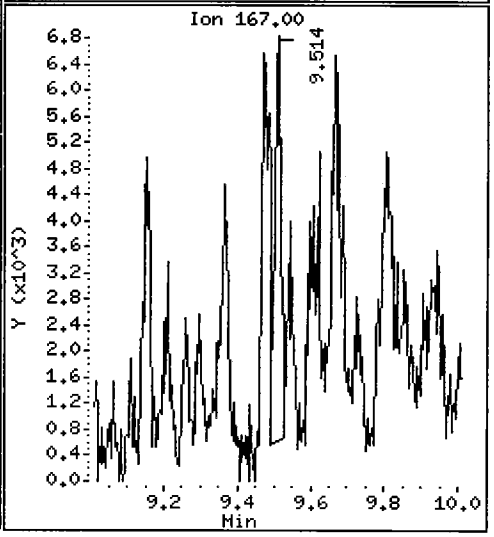


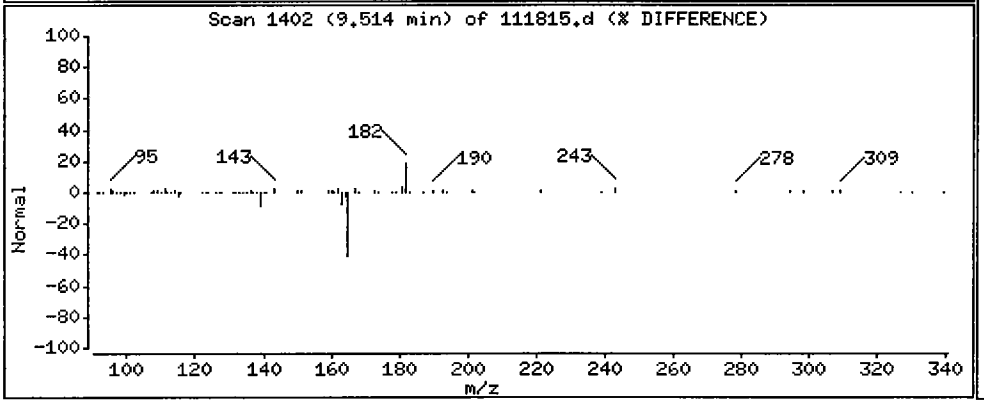












Data File: /chem3/nt2.i/20091118.b/111815.d

Date : 18-NOV-2009 16:18

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B

Volume Injected (uL): 1.0

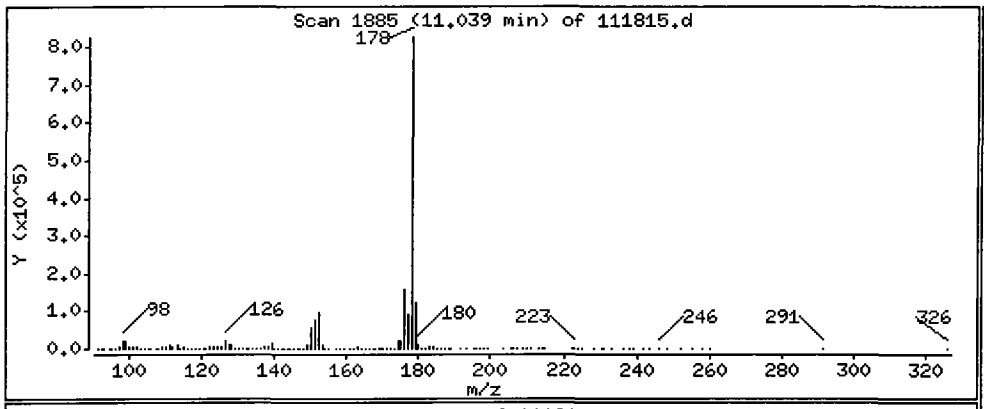
Operator: VTS

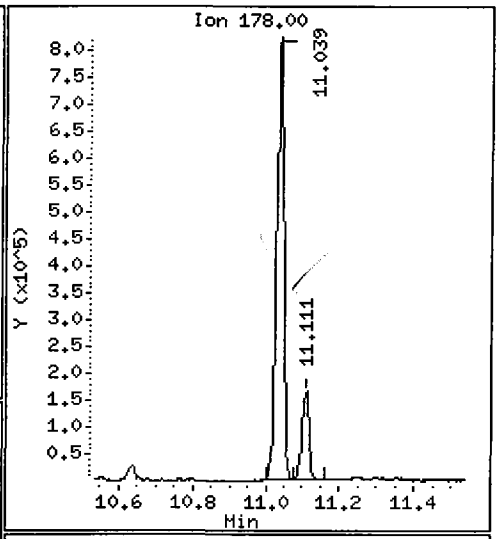
Column phase: ZB-5msi

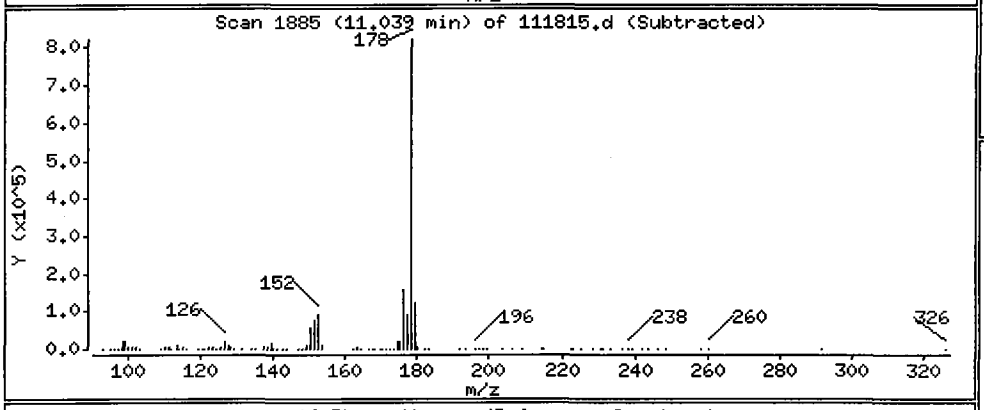
Column diameter: 0.25

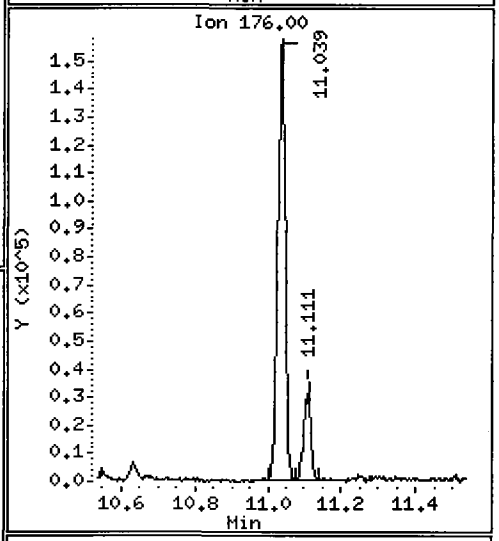
16 Phenanthrene

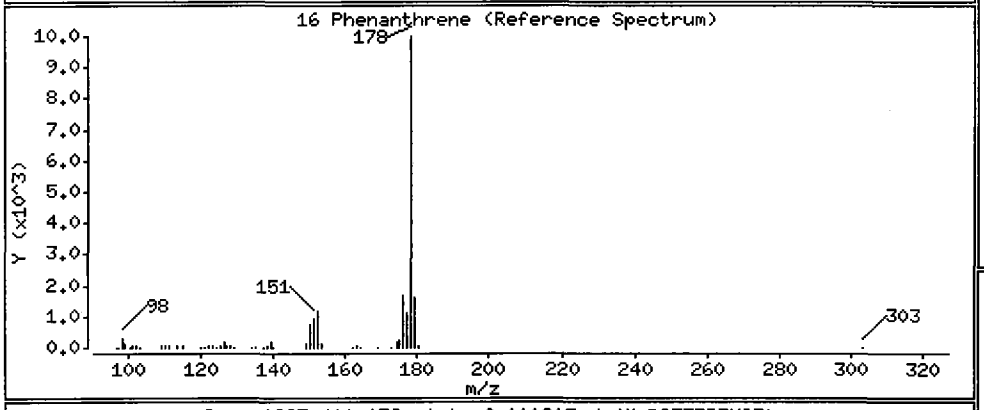
Concentration: 312.2 ug/kg

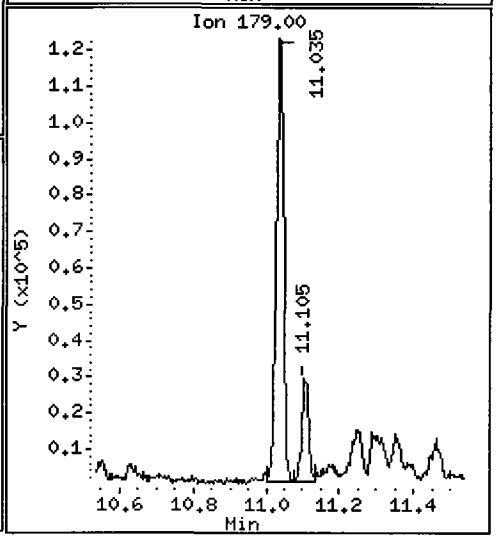


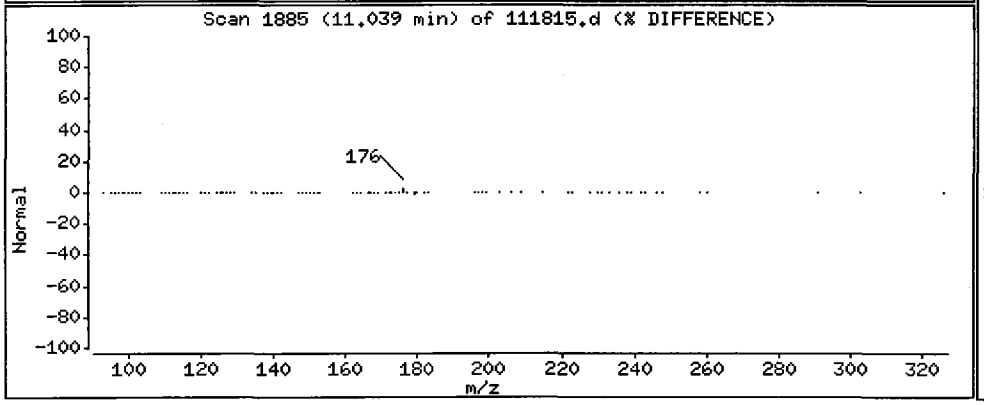












Data File: /chem3/nt2.i/20091118.b/111815.d

Date : 18-NOV-2009 16:18

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B

Volume Injected (uL): 1.0

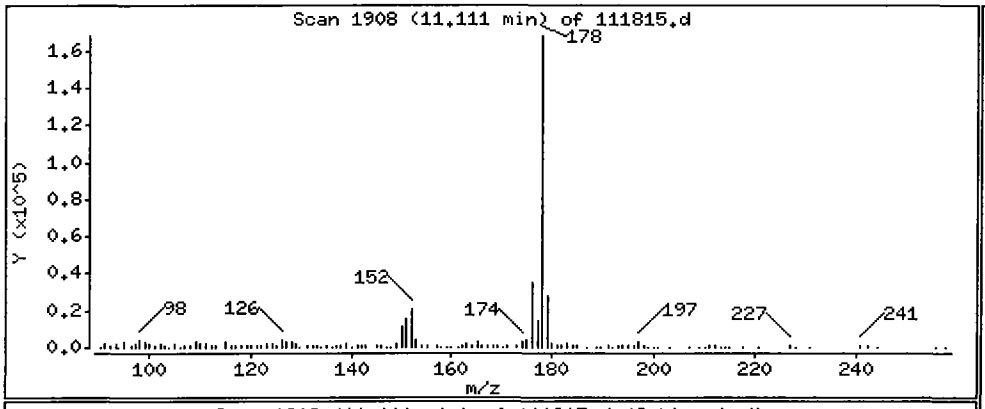
Operator: VTS

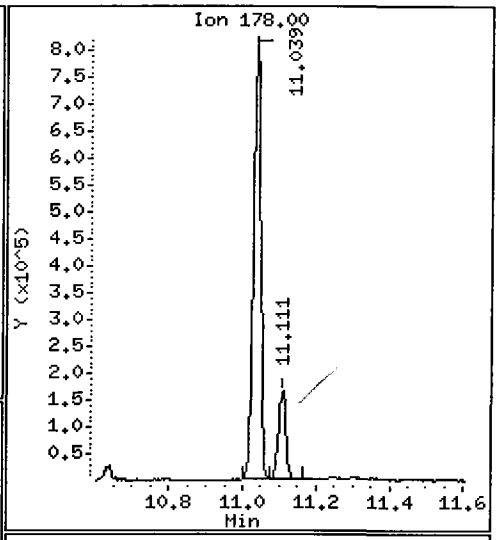
Column phase: ZB-5msi

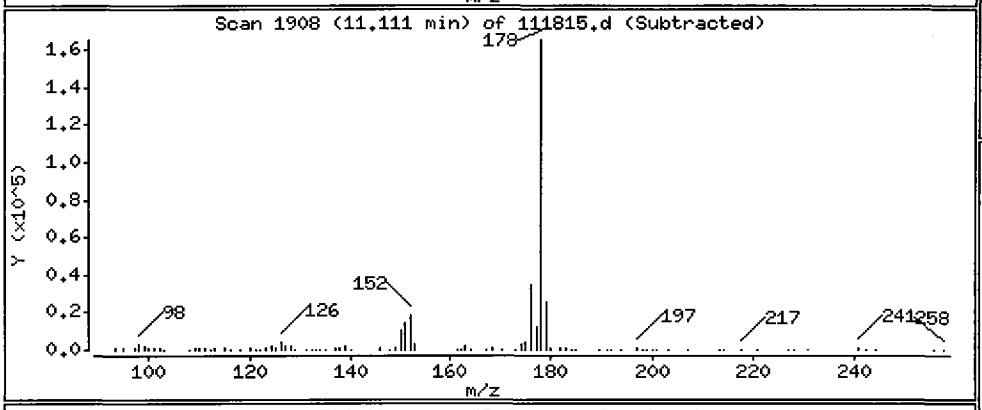
Column diameter: 0.25

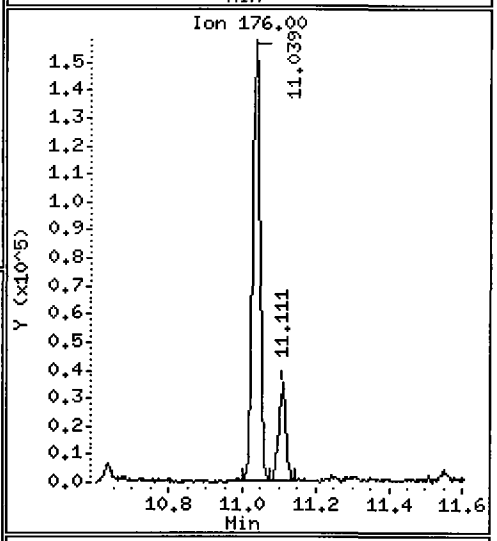
17 Anthracene

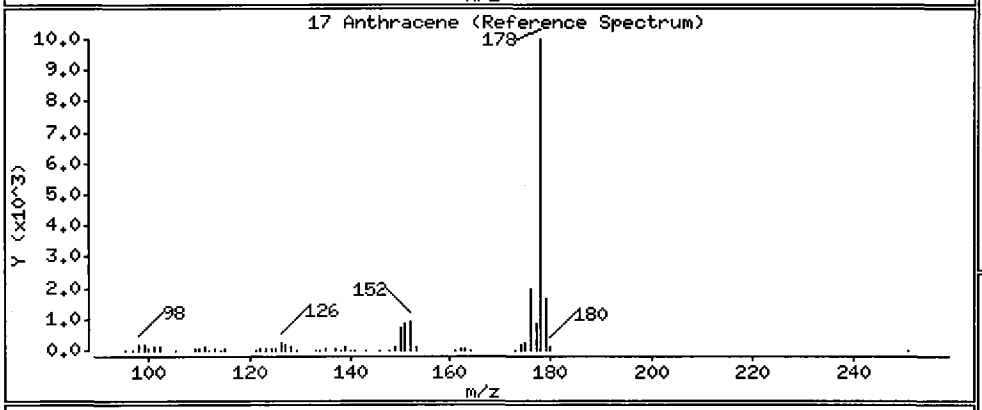
Concentration: 65.00 ug/kg

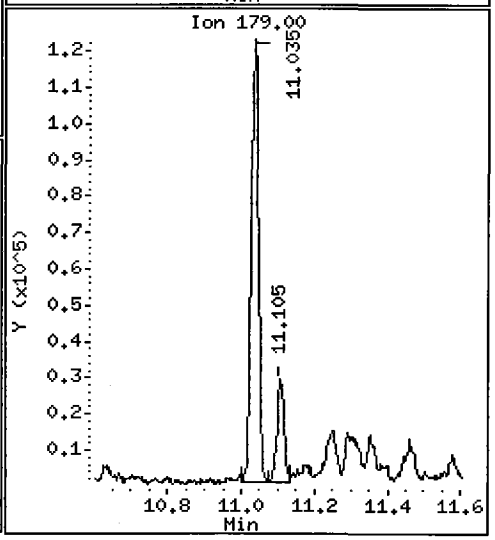


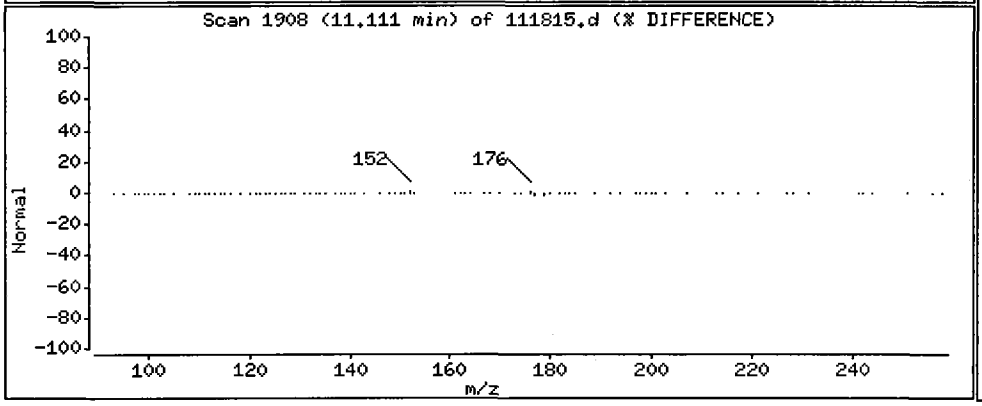












Data File: /chem3/nt2.i/20091118.b/111815.d

Date : 18-NOV-2009 16:18

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B

Volume Injected (uL): 1.0

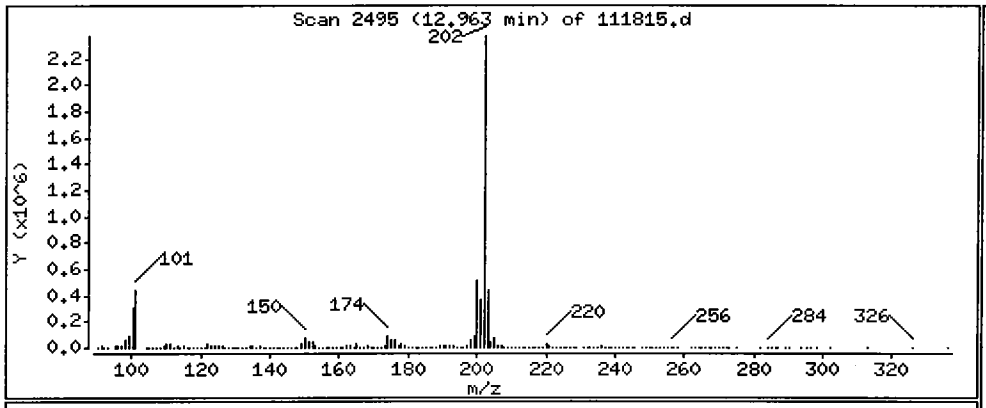
Operator: VTS

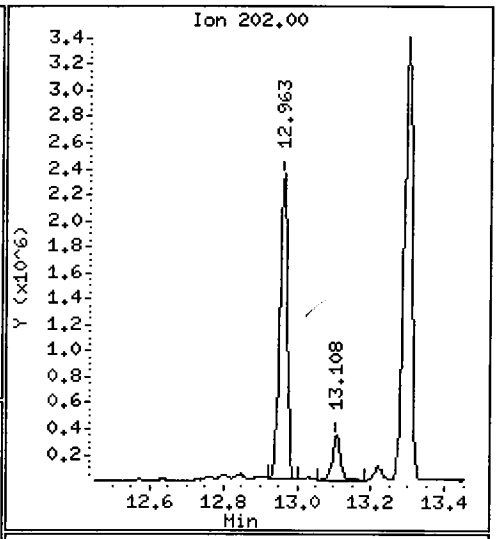
Column phase: ZB-5msi

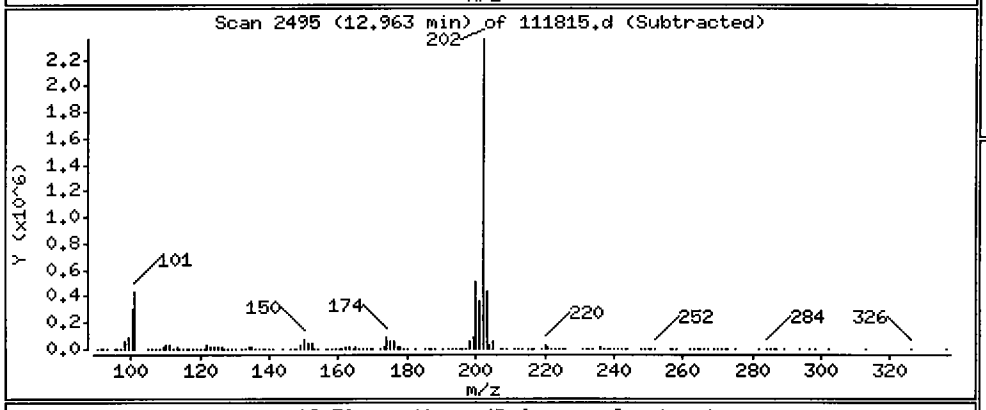
Column diameter: 0.25

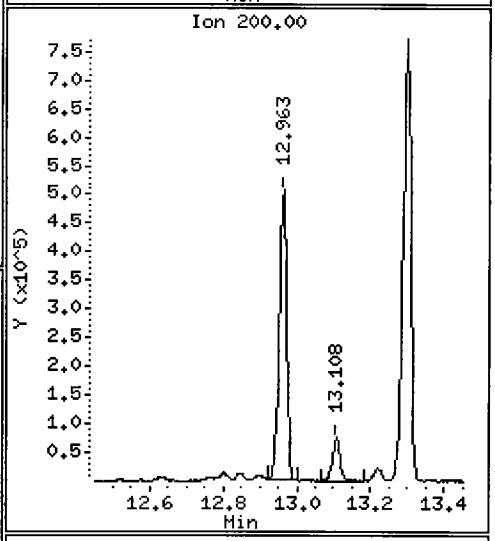
19 Fluoranthene

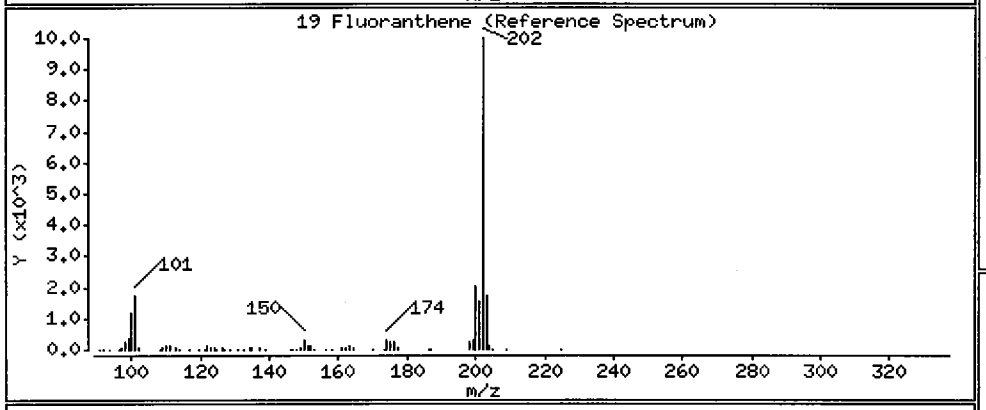
Concentration: 887.0 ug/kg

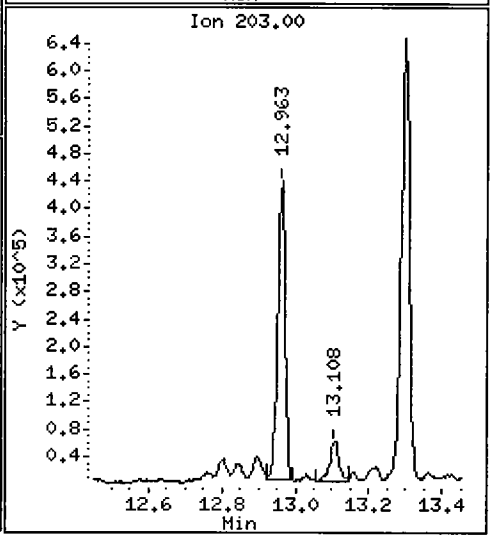


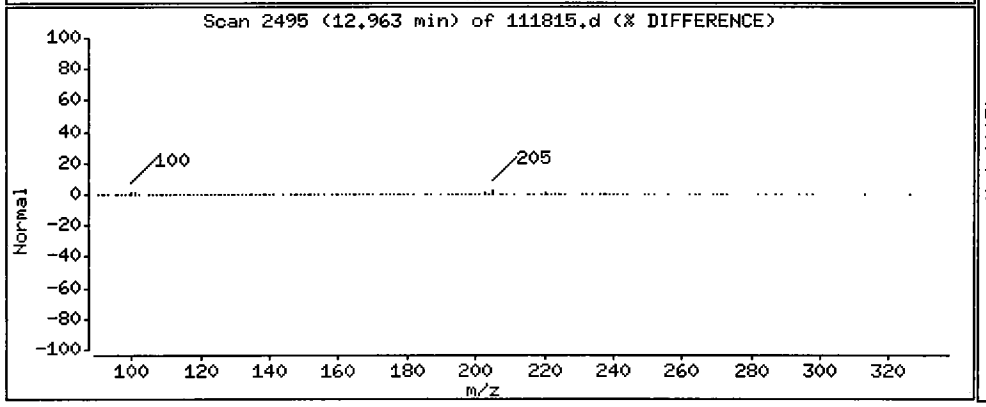












Data File: /chem3/nt2.i/20091118.b/111815.d

Date : 18-NOV-2009 16:18

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B

Volume Injected (uL): 1.0

Operator: VTS

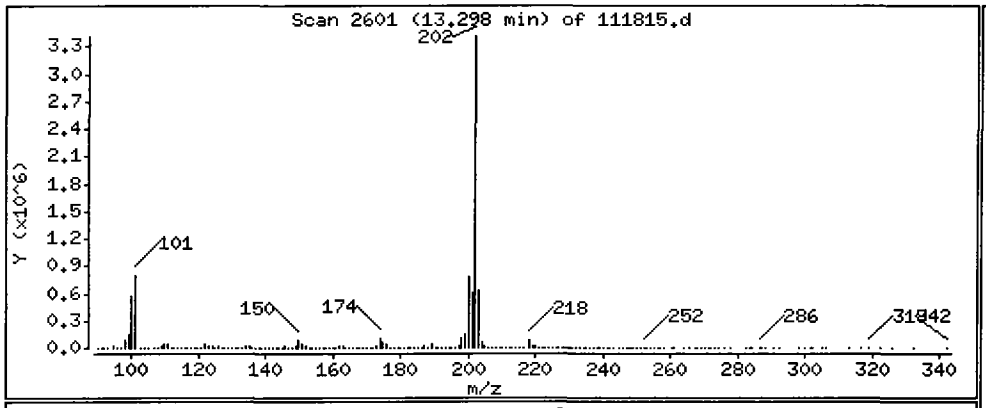
Column phase: ZB-5msi

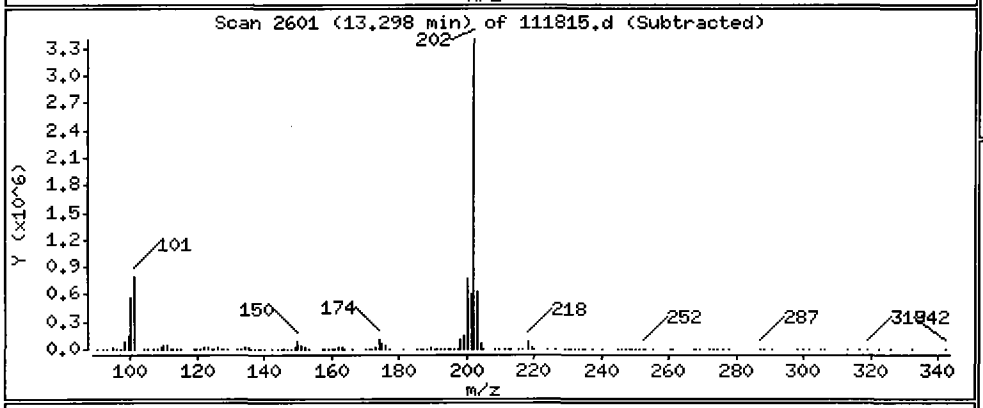
Column diameter: 0.25

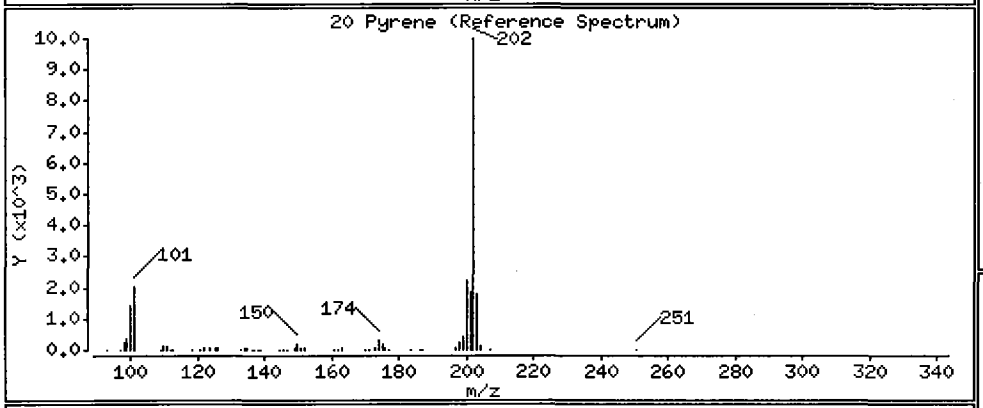
20 Pyrene

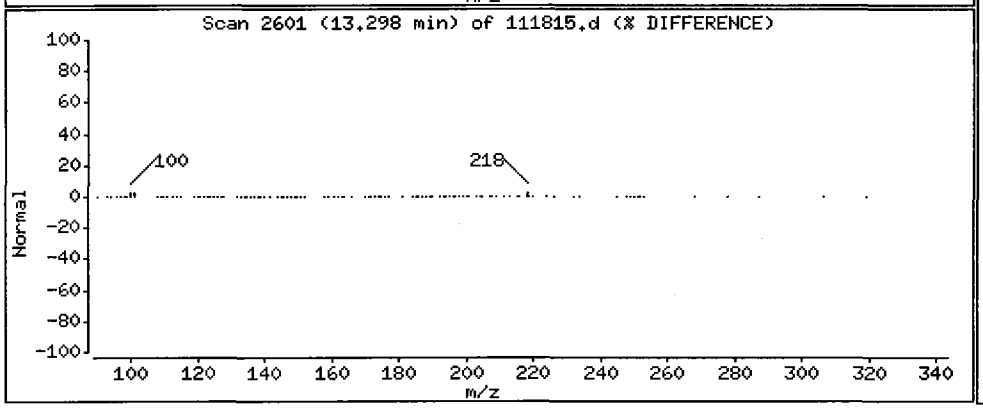
Concentration: 1133 ug/kg

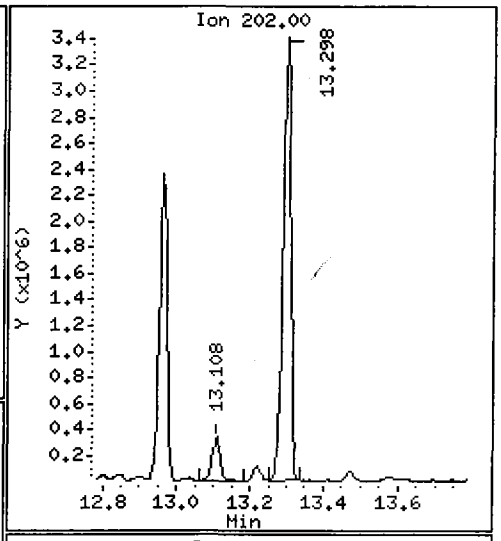
E

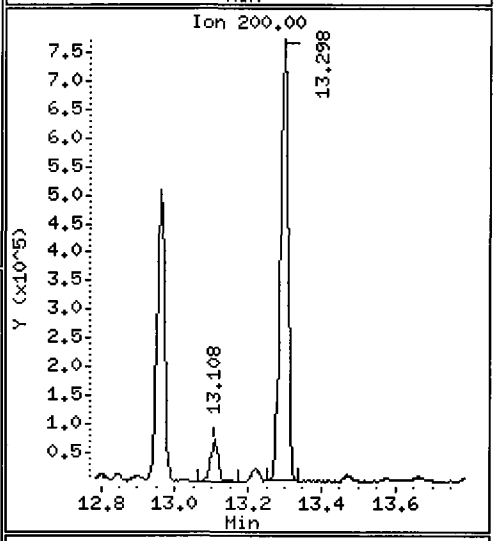


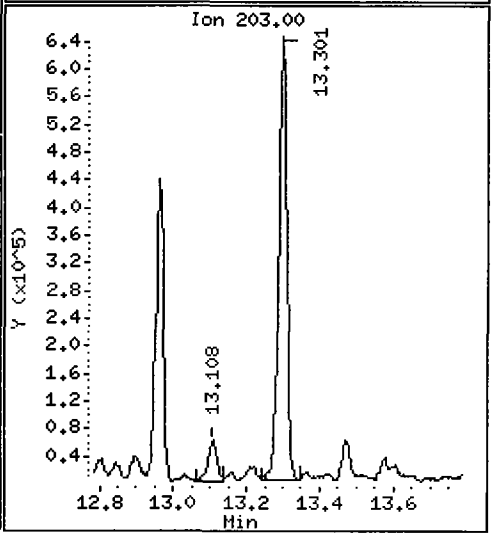












Data File: /chem3/nt2.i/20091118.b/111815.d

Date : 18-NOV-2009 16:18

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B

Volume Injected (uL): 1.0

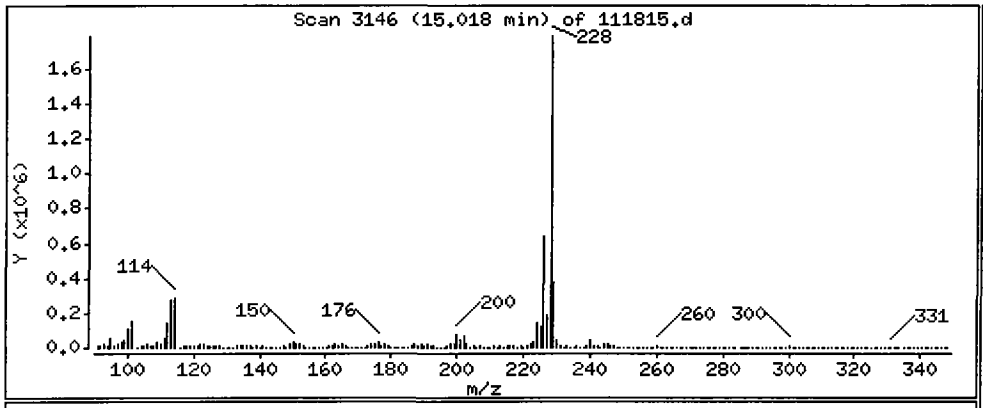
Operator: VTS

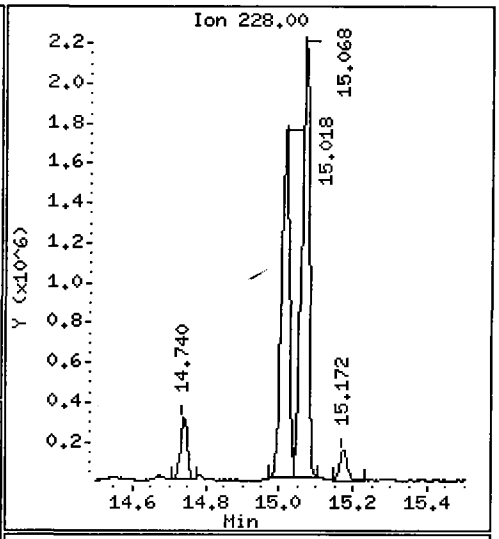
Column phase: ZB-5msi

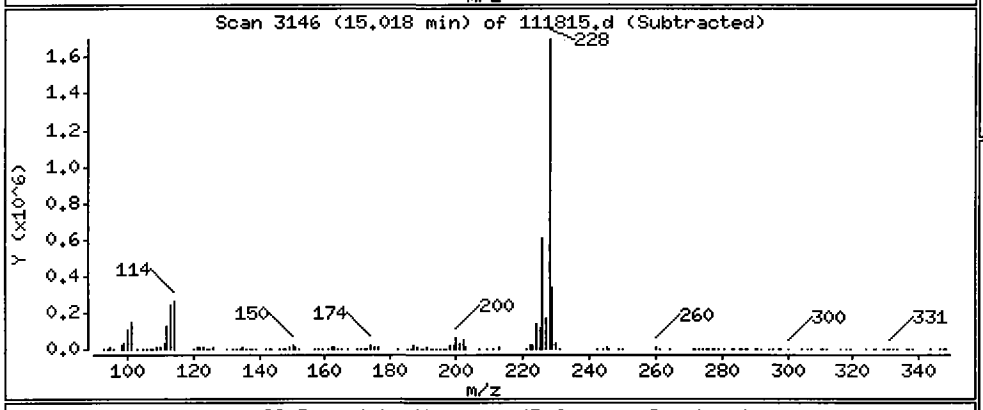
Column diameter: 0.25

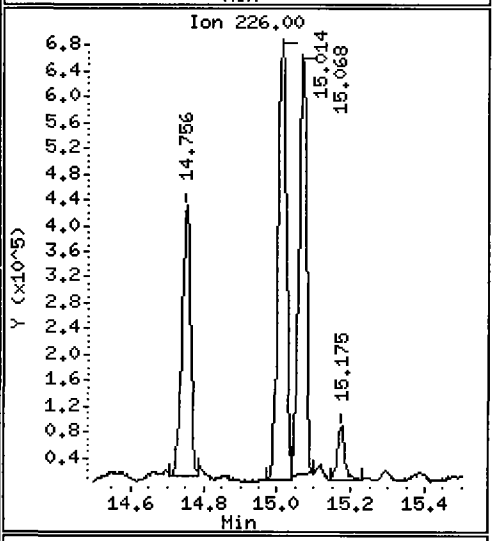
22 Benzo(a)anthracene

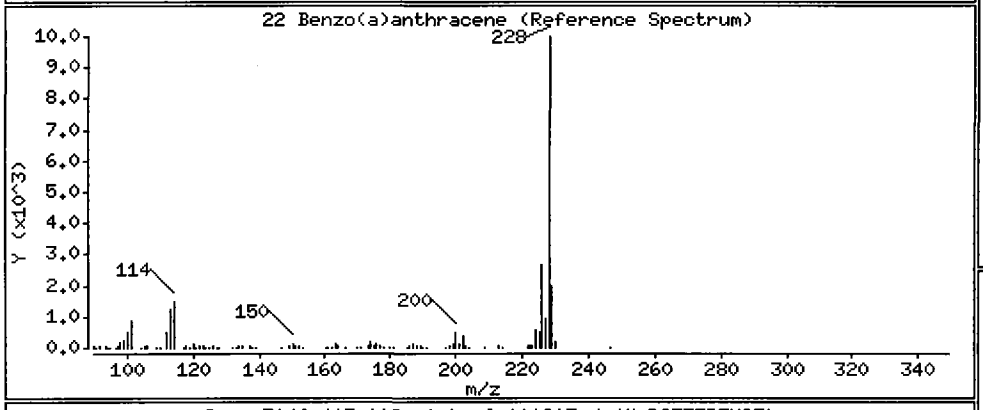
Concentration: 638.8 ug/kg

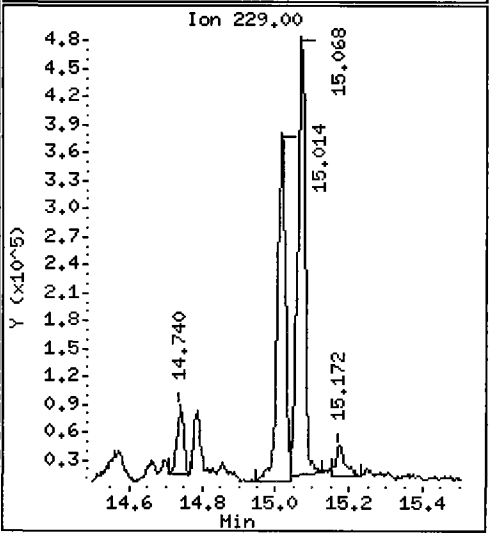


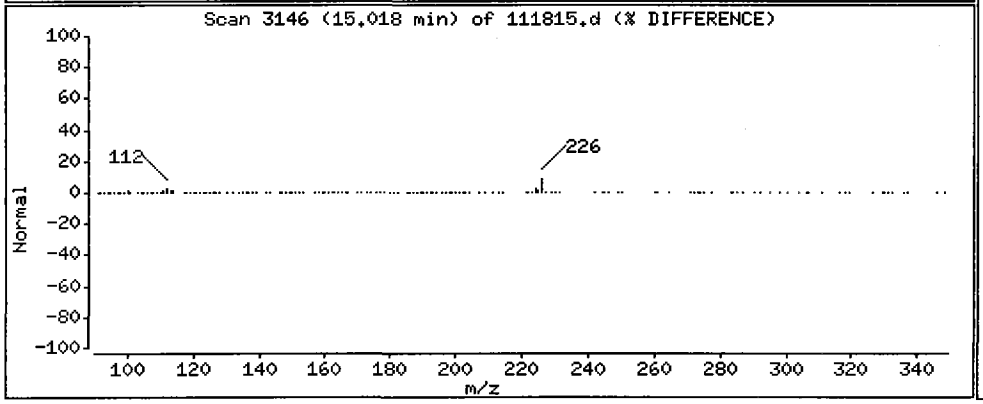












Data File: /chem3/nt2.i/20091118.b/111815.d

Date : 18-NOV-2009 16:18

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B

Volume Injected (uL): 1.0

Operator: VTS

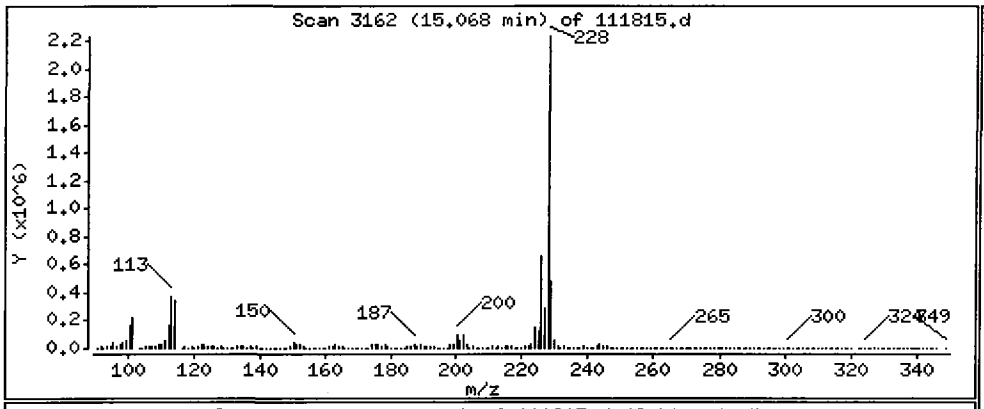
Column phase: ZB-5msi

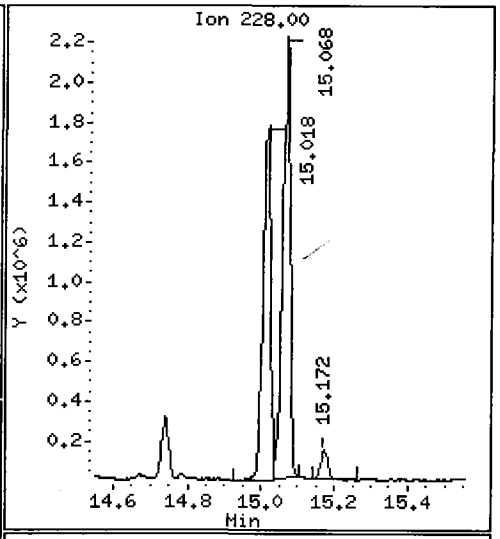
Column diameter: 0.25

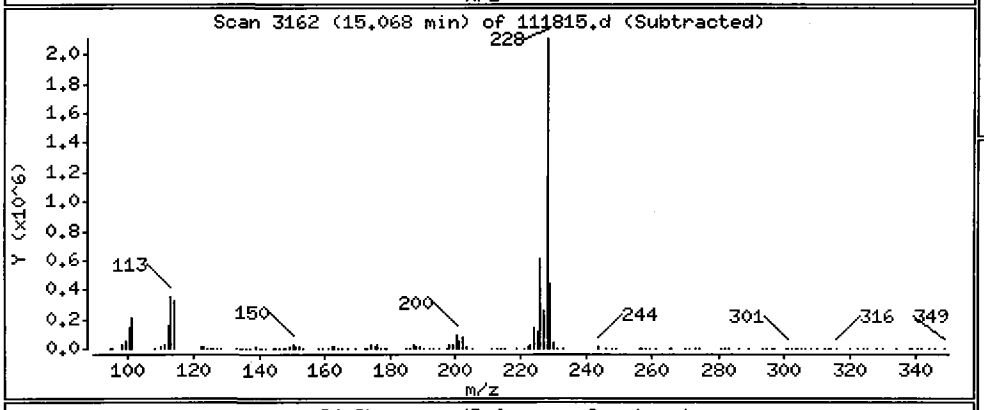
24 Chrysene

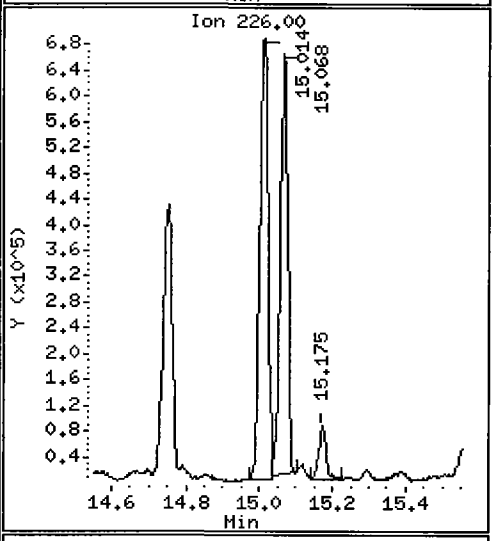
Concentration: 779.8 ug/kg

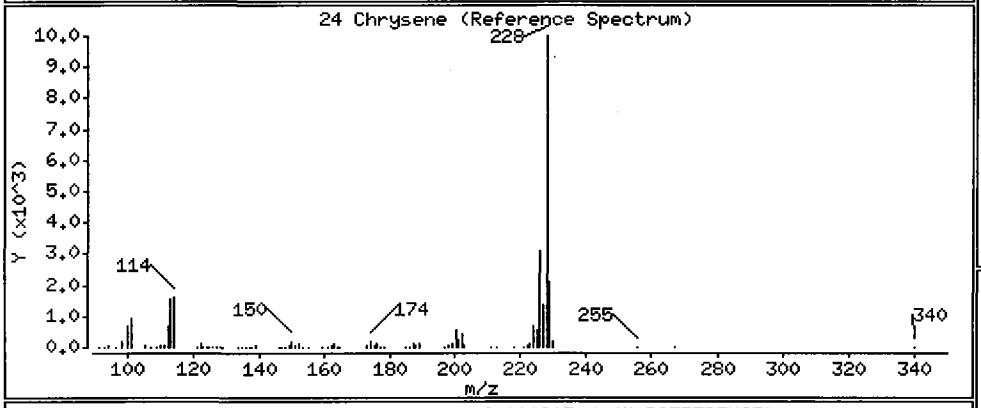
E

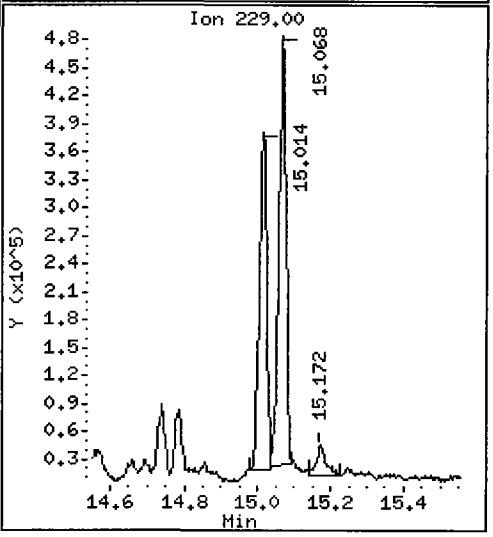


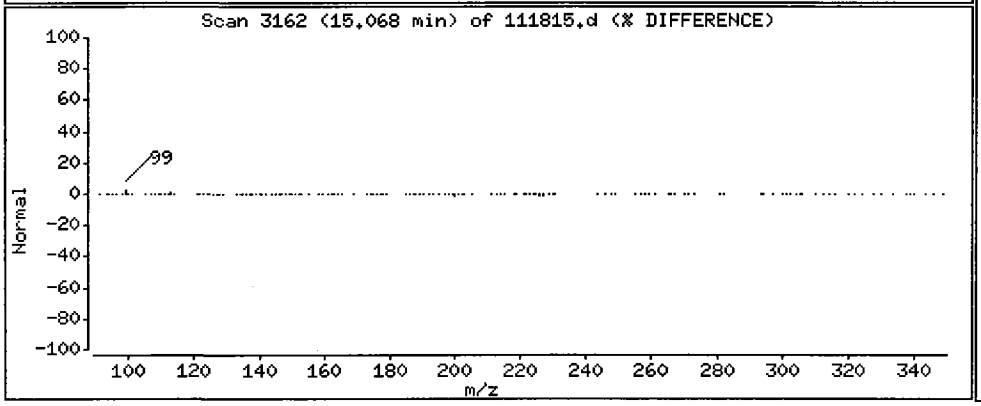












Data File: /chem3/nt2.i/20091118.b/111815.d

Date : 18-NOV-2009 16:18

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B

Volume Injected (uL): 1.0

Operator: VTS

Column phase: ZB-5msi

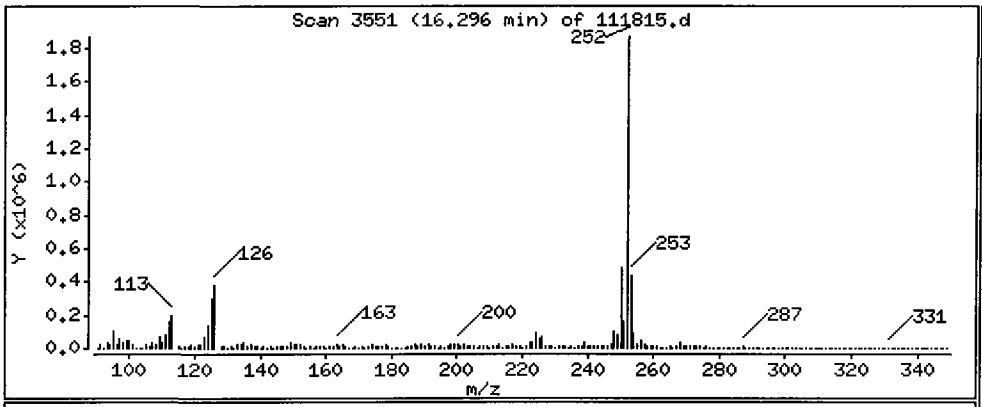
Column diameter: 0.25

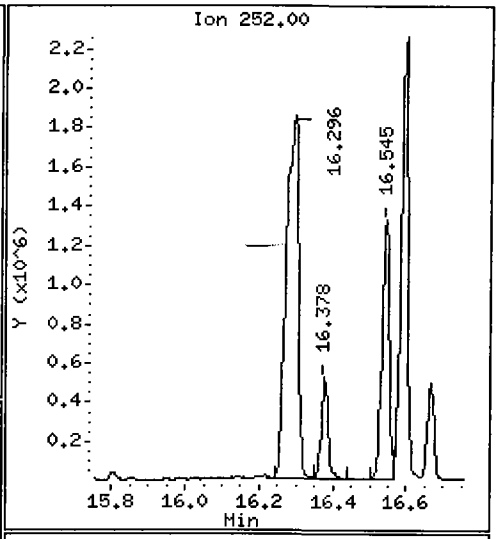
28 Benzo(b)fluoranthene

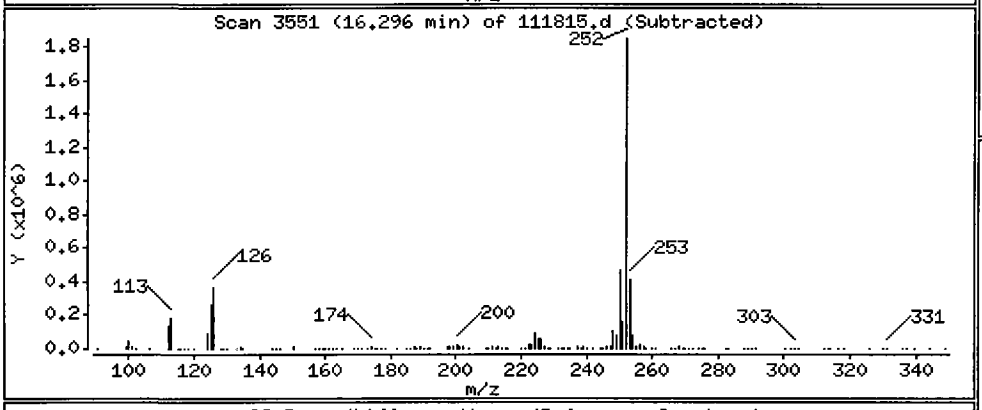
Concentration: 1121 ug/kg

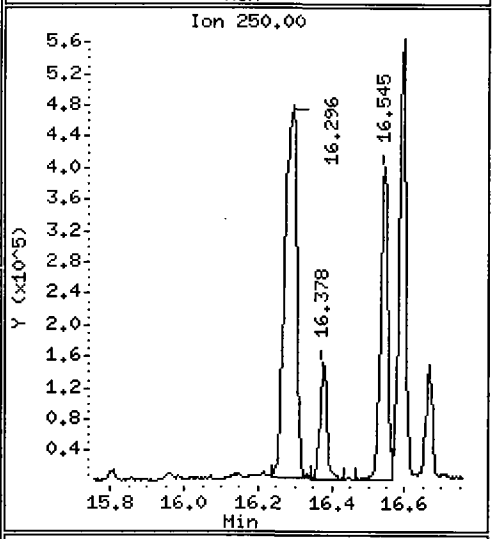
E

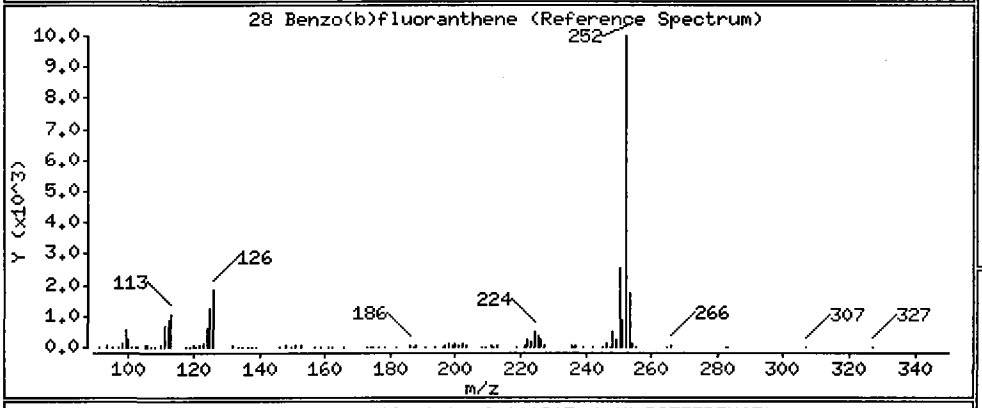
1/2

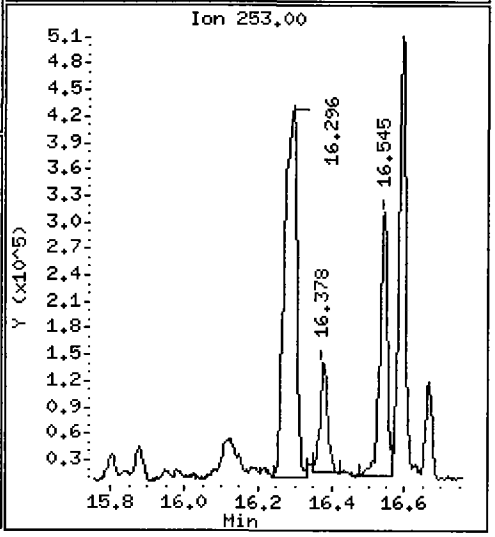


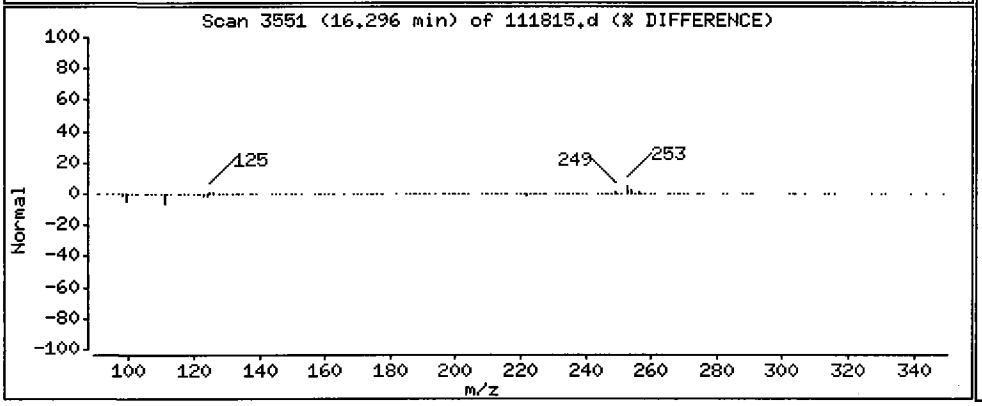












Data File: /chem3/nt2.i/20091118.b/111815.d

Date : 18-NOV-2009 16:18

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B

Volume Injected (uL): 1.0

Operator: VTS

Column phase: ZB-5msi

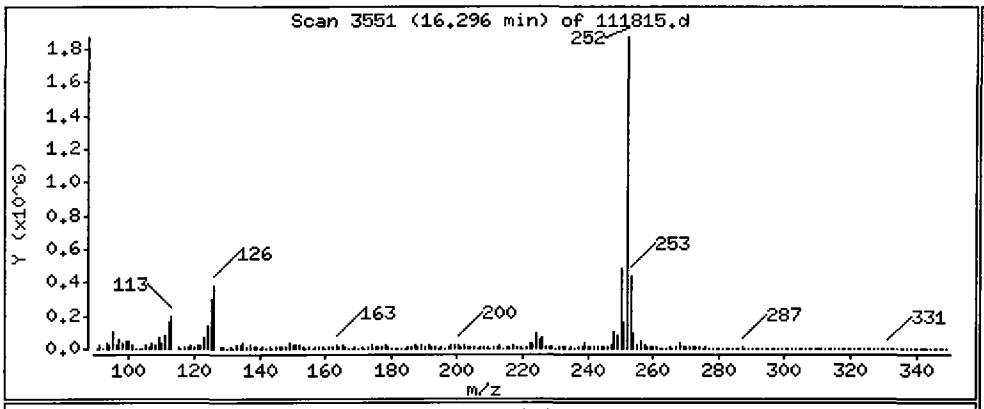
Column diameter: 0.25

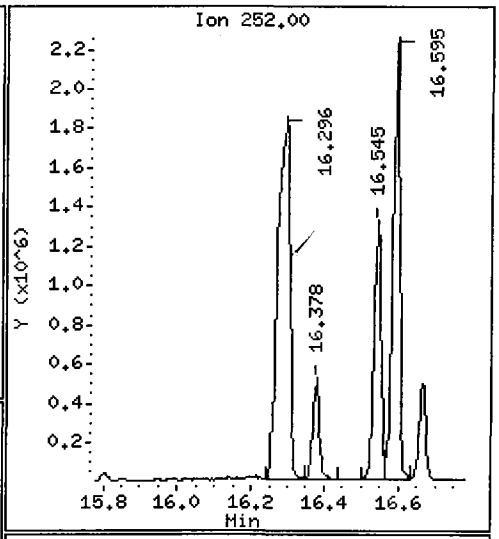
E

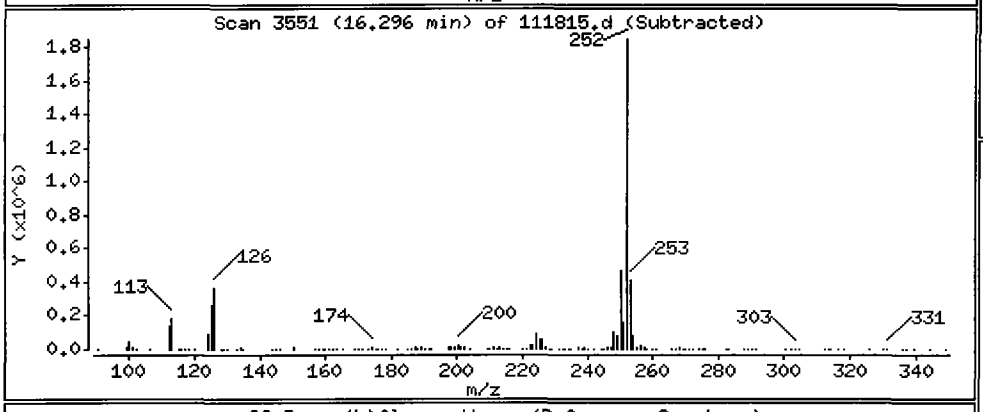
1/2

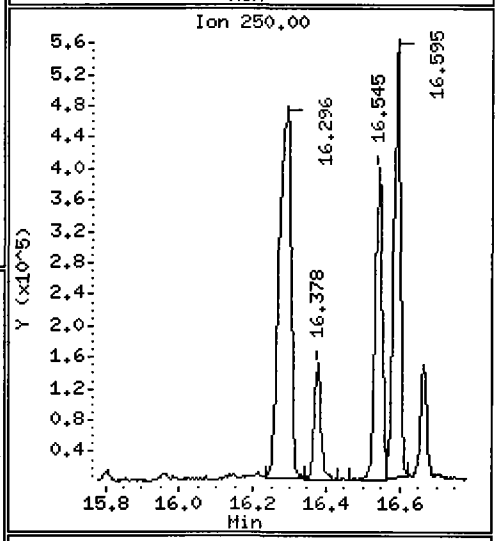
29 Benzo(k)fluoranthene

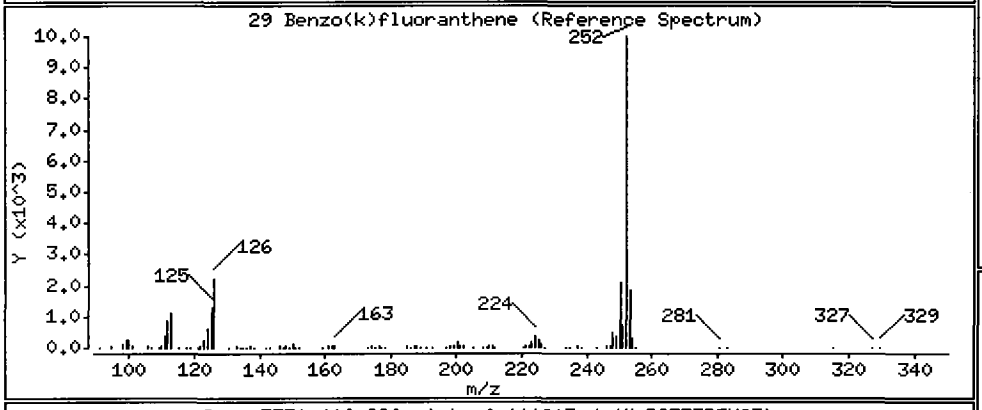
Concentration: 1003 ug/kg

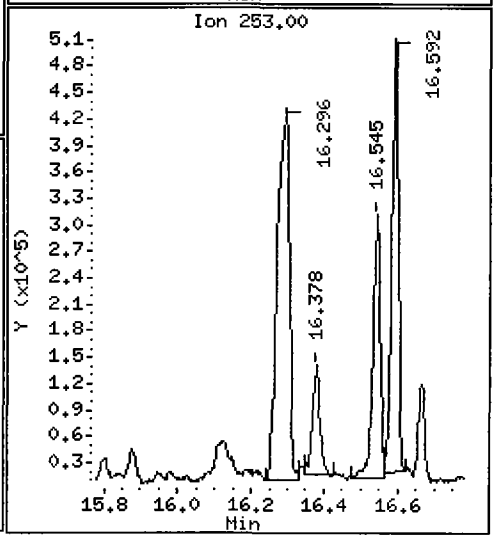


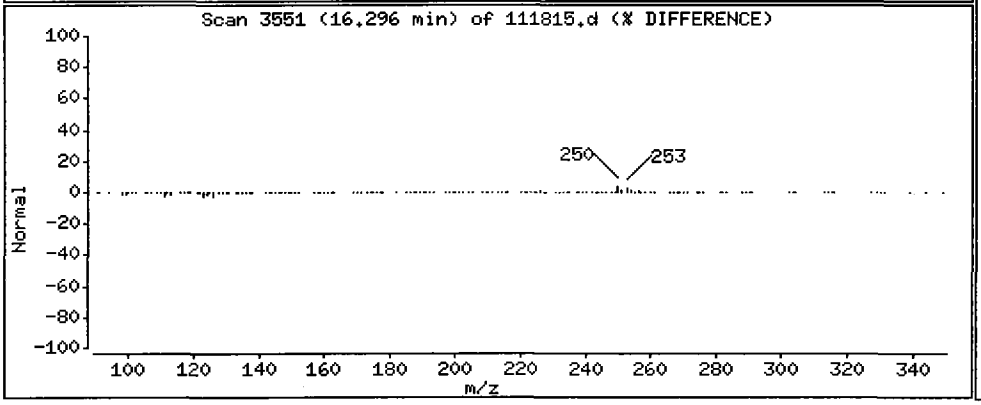












Data File: /chem3/nt2.i/20091118.b/111815.d

Date : 18-NOV-2009 16:18

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B

Volume Injected (uL): 1.0

Operator: VTS

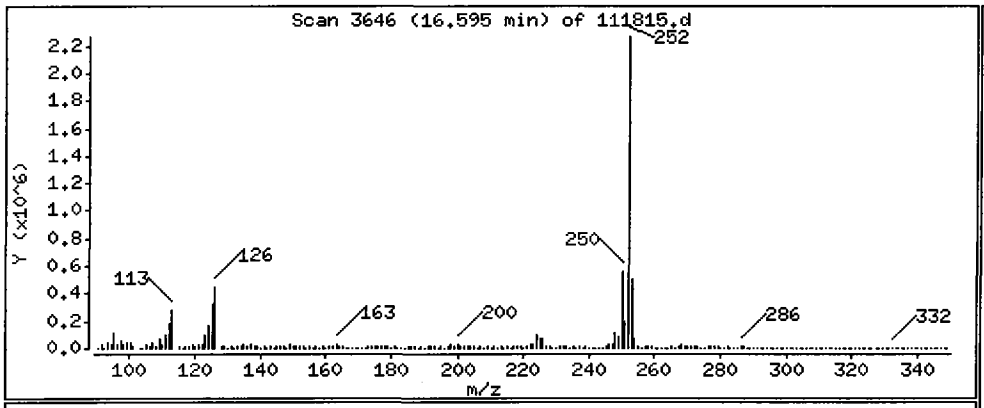
Column phase: ZB-5msi

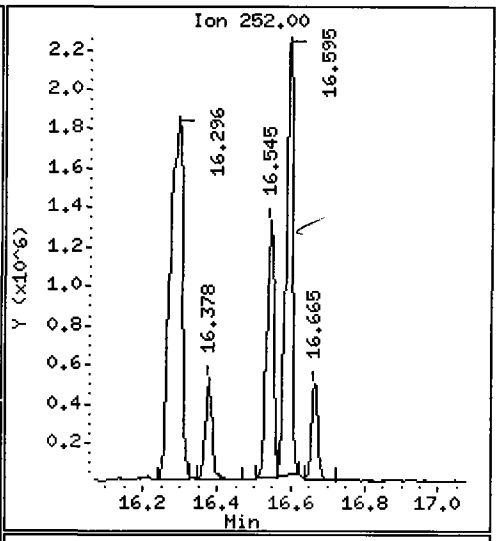
Column diameter: 0.25

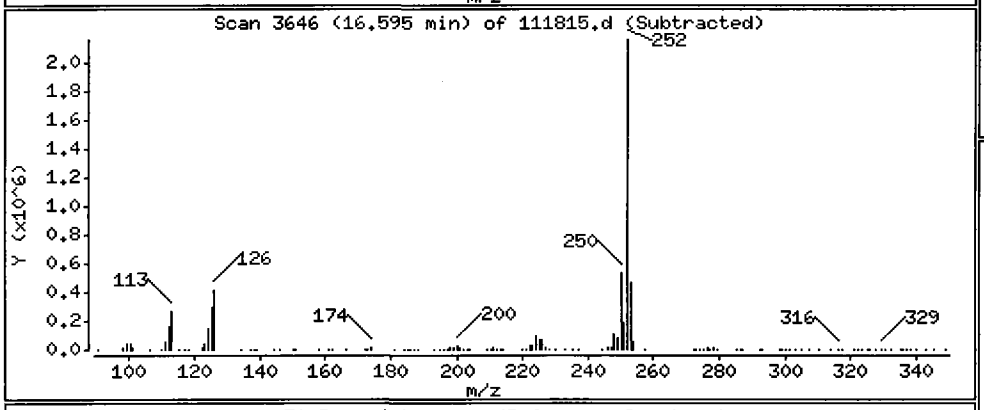
E

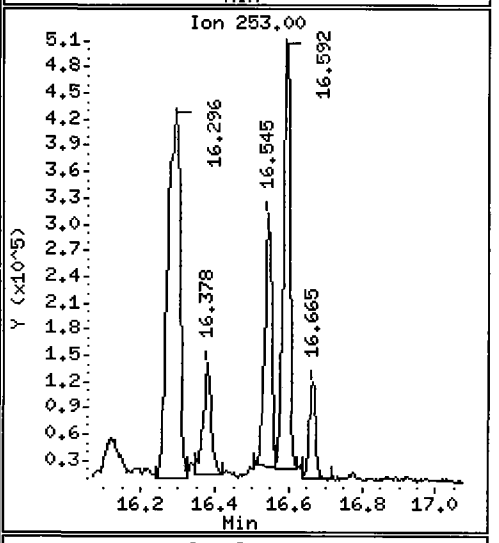
30 Benzo(a)pyrene

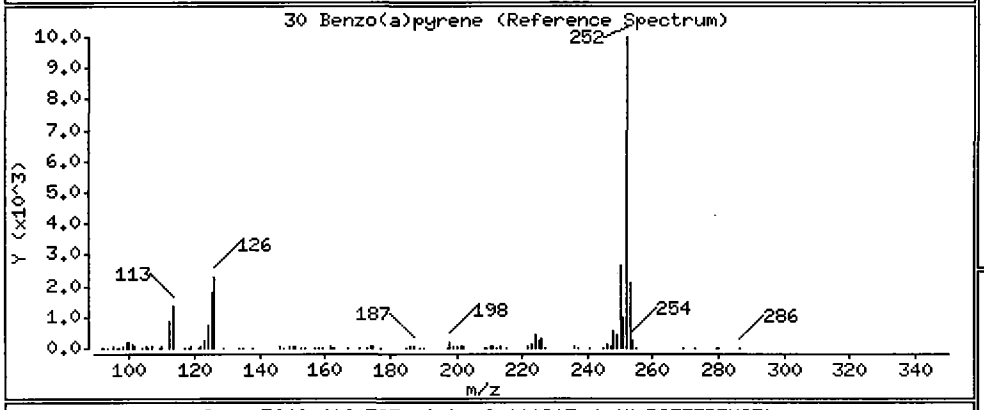
Concentration: 877.7 ug/kg

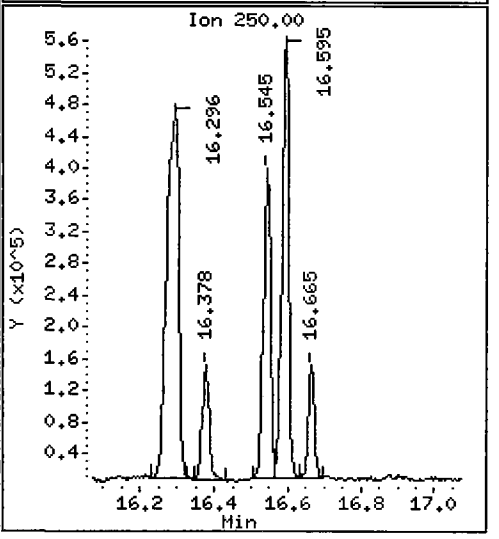


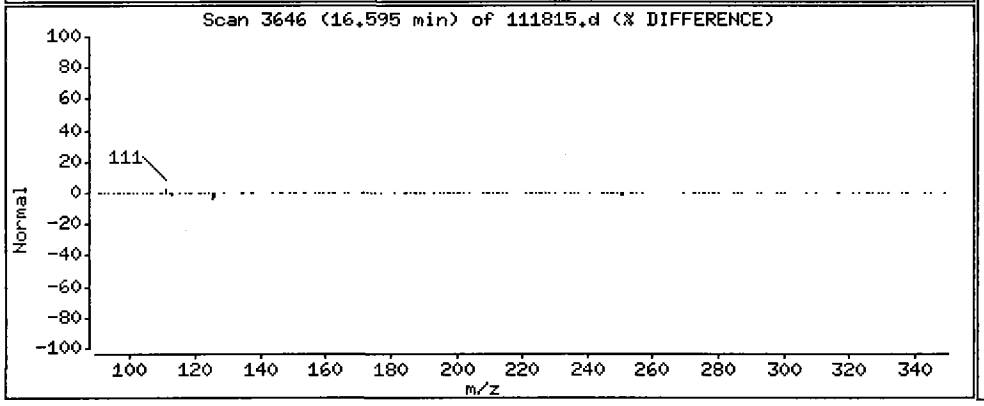












Data File: /chem3/nt2.i/20091118.b/111815.d

Date : 18-NOV-2009 16:18

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B

Volume Injected (uL): 1.0

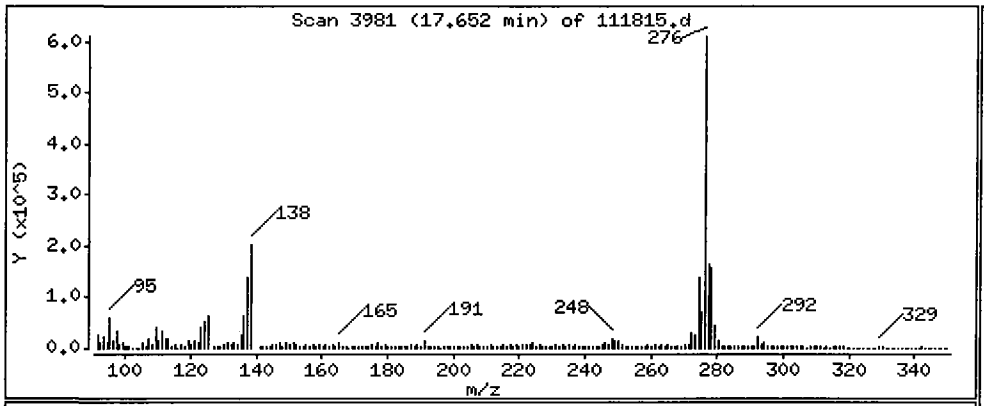
Operator: VTS

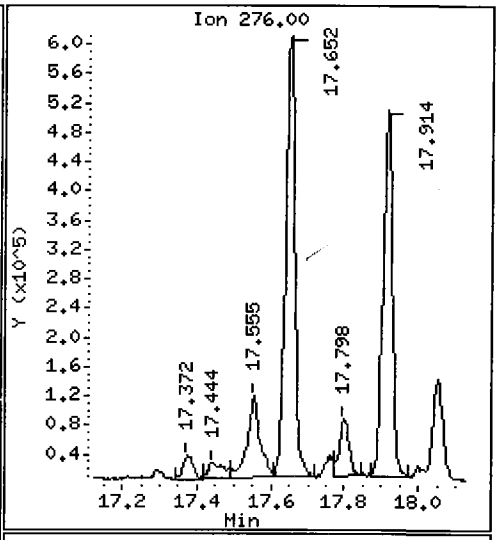
Column phase: ZB-5msi

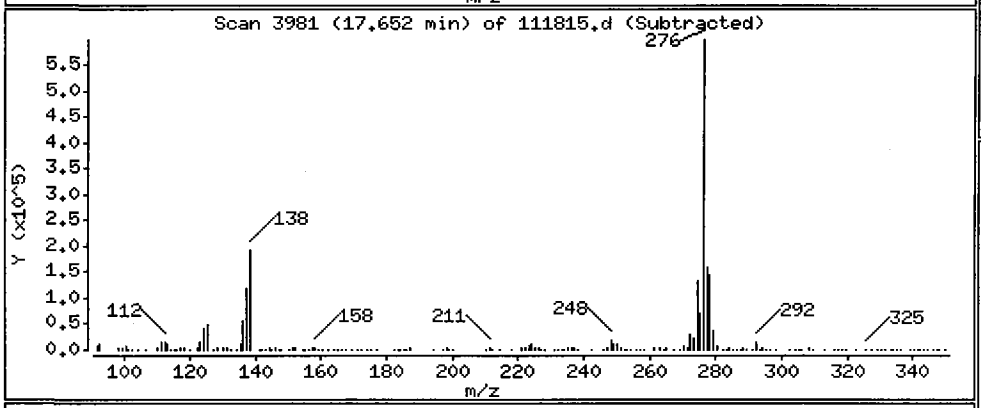
Column diameter: 0.25

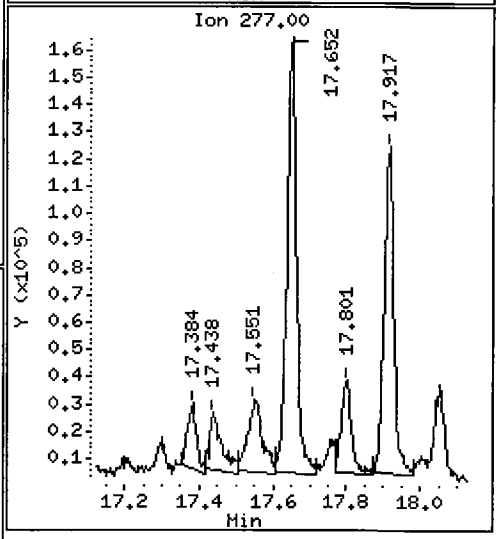
33 Indeno(1,2,3-cd)pyrene

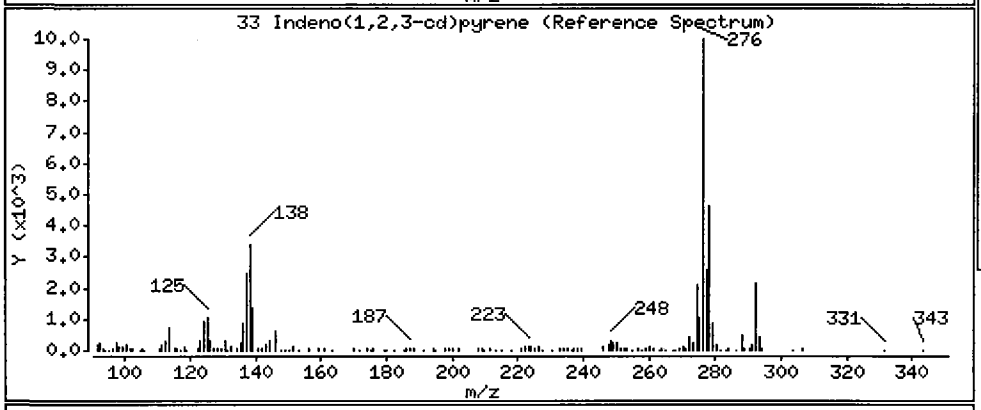
Concentration: 334.0 ug/kg

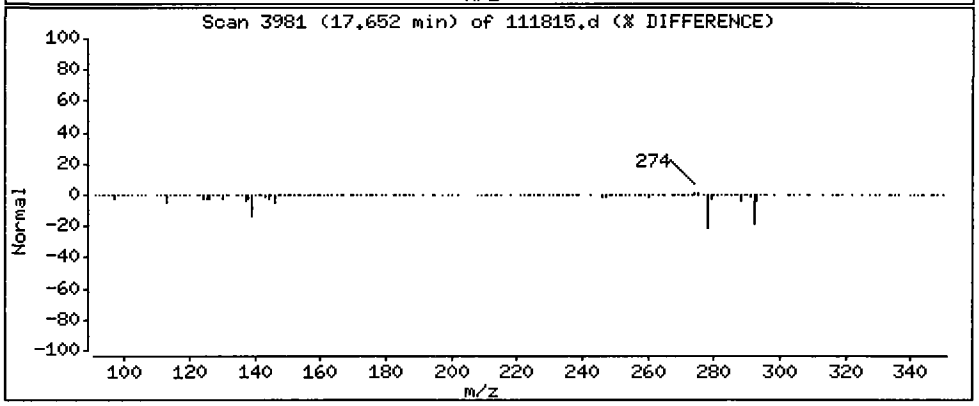












Data File: /chem3/nt2.i/20091118.b/111815.d

Date : 18-NOV-2009 16:18

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B

Volume Injected (uL): 1.0

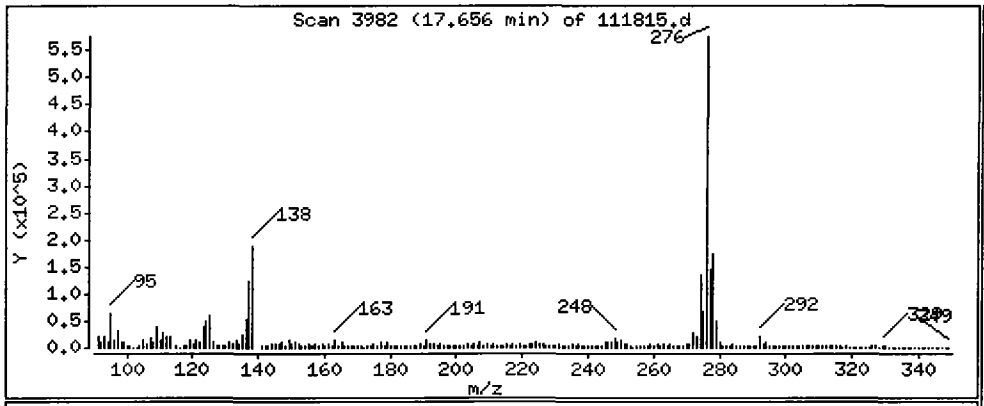
Operator: VTS

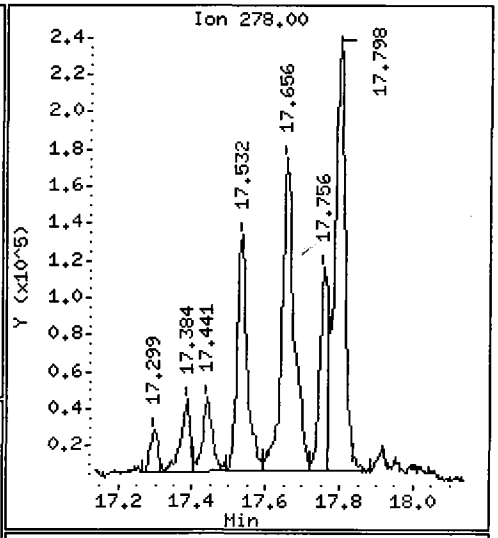
Column phase: ZB-5msi

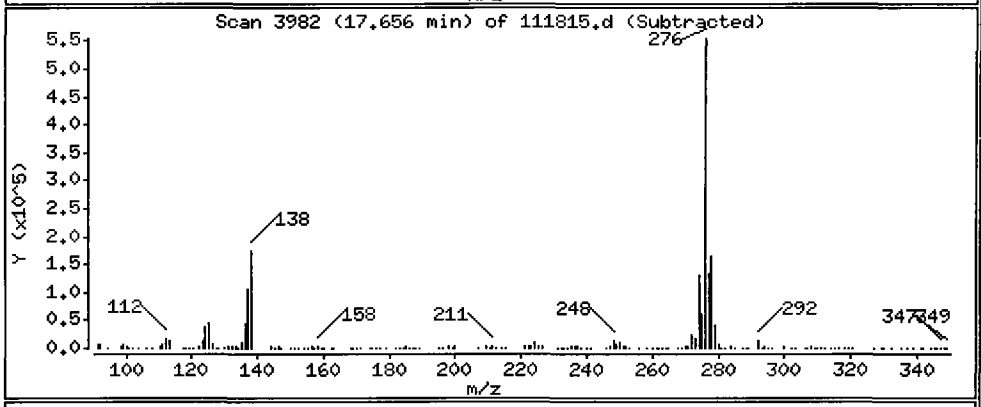
Column diameter: 0.25

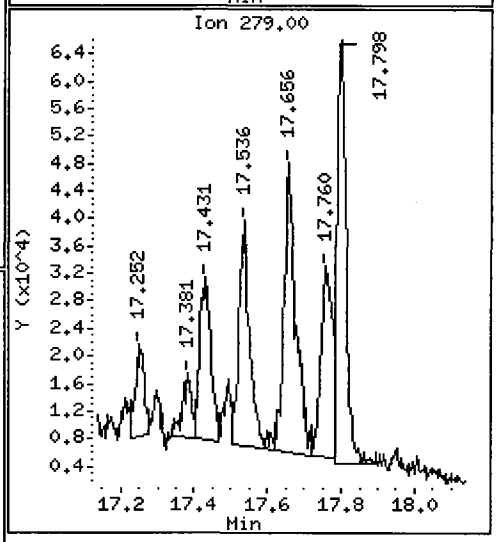
34 Dibenz(a,h)anthracene

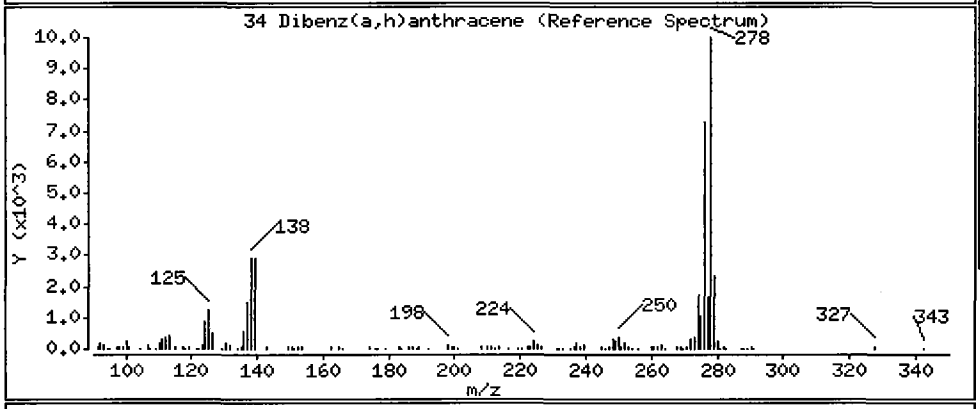
Concentration: 159.4 ug/kg

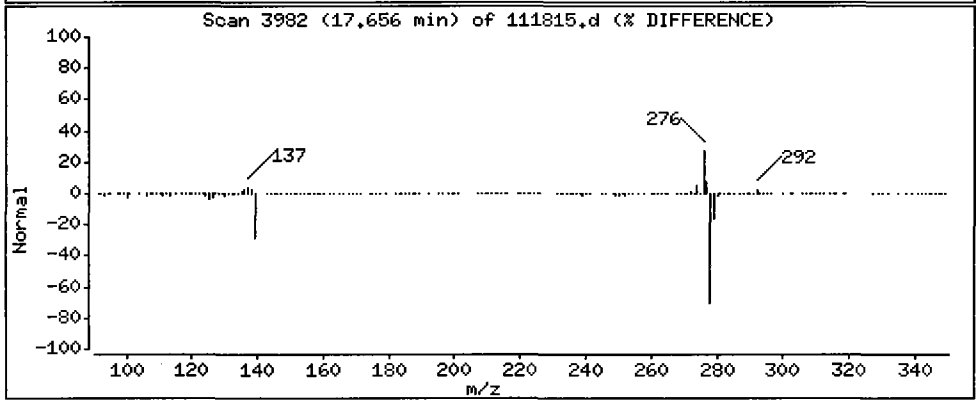












Data File: /chem3/nt2.i/20091118.b/111815.d

Date : 18-NOV-2009 16:18

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B

Volume Injected (uL): 1.0

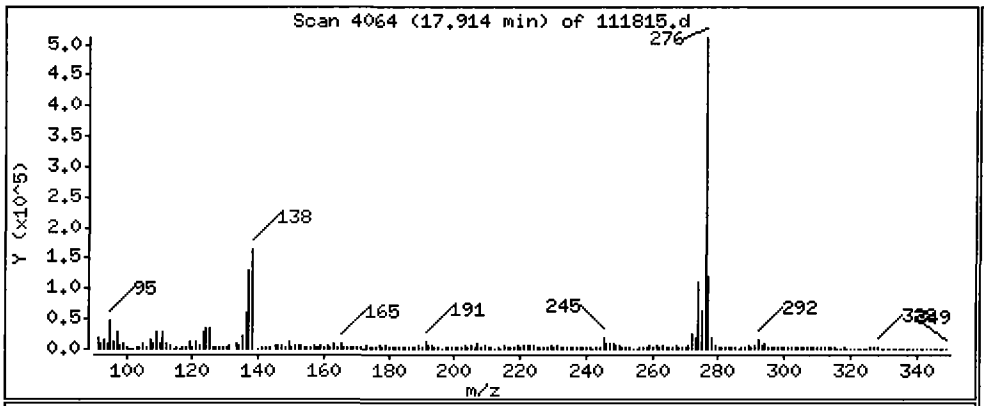
Operator: VTS

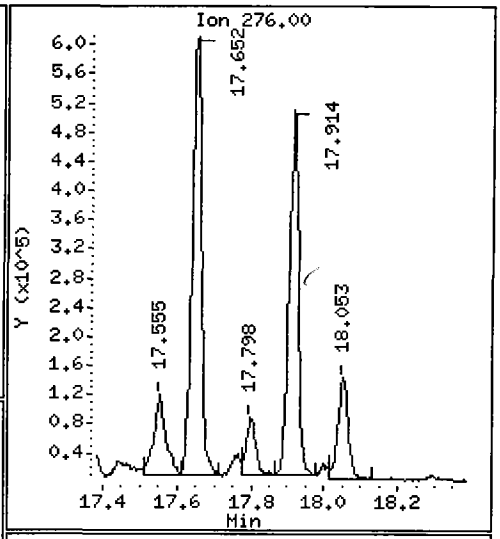
Column phase: ZB-5msi

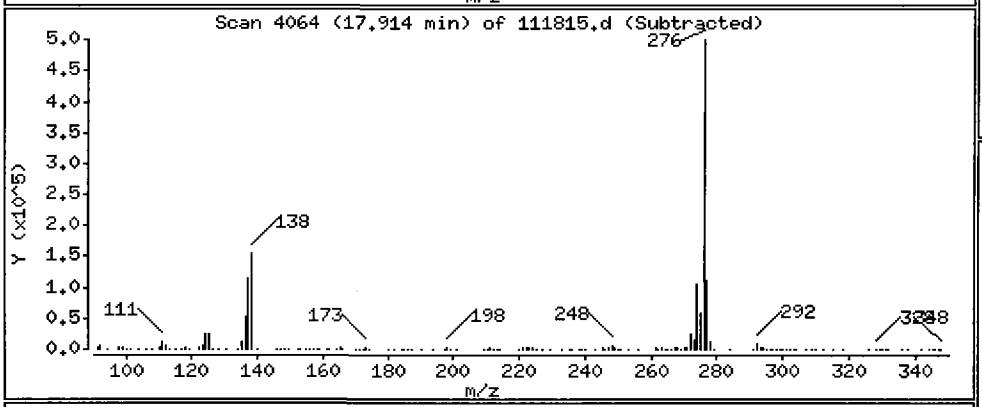
Column diameter: 0.25

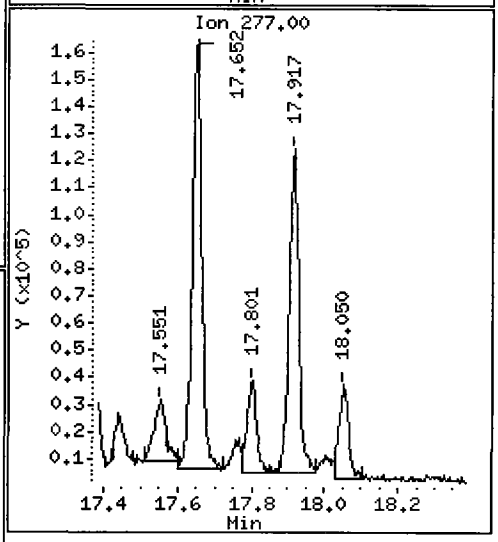
35 Benzo(g,h,i)perylene

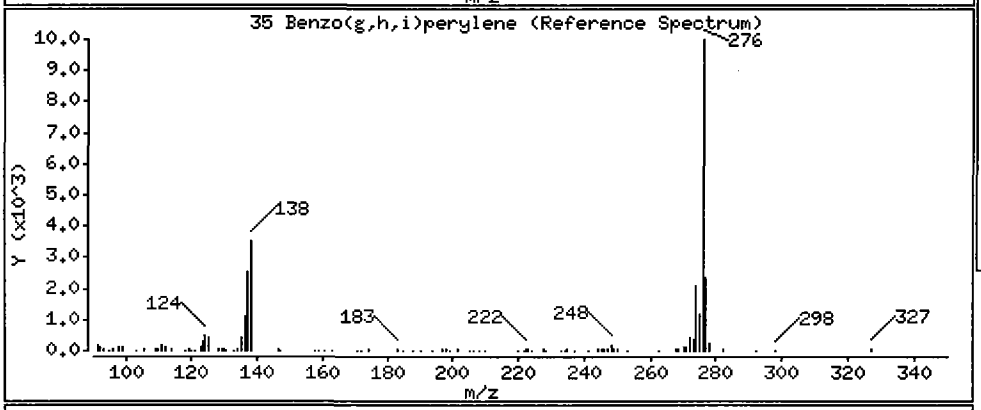
Concentration: 331.5 ug/kg

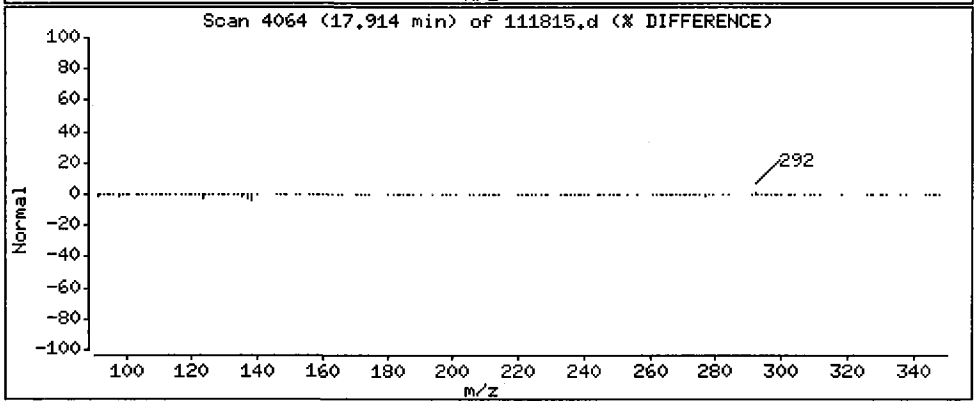












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS

Sample ID: AHA-01-4NE(0-2)
DILUTION

Lab Sample ID: PX44B
LIMS ID: 09-28004
Matrix: Soil
Data Release Authorized:
Reported: 11/20/09

QC Report No: PX44-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 11/16/09
Date Analyzed: 11/19/09 14:13
Instrument/Analyst: NT2/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 11.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 5.00
Percent Moisture: 13.4%

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**22**	**38**
91-57-6	2-Methylnaphthalene	22	< 22 U
90-12-0	1-Methylnaphthalene	22	< 22 U
208-96-8	**Acenaphthylene**	**22**	**160**
83-32-9	Acenaphthene	22	< 22 U
86-73-7	Fluorene	22	< 22 U
85-01-8	**Phenanthrene**	**22**	**320**
120-12-7	**Anthracene**	**22**	**56**
206-44-0	**Fluoranthene**	**22**	**870**
129-00-0	**Pyrene**	**22**	**1,200**
56-55-3	**Benzo(a)anthracene**	**22**	**630**
218-01-9	**Chrysene**	**22**	**780**
205-99-2	**Benzo(b)fluoranthene**	**22**	**530**
207-08-9	**Benzo(k)fluoranthene**	**22**	**530**
50-32-8	**Benzo(a)pyrene**	**22**	**930**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**22**	**440**
53-70-3	**Dibenz(a,h)anthracene**	**22**	**190**
191-24-2	**Benzo(g,h,i)perylene**	**22**	**510**
132-64-9	Dibenzofuran	22	< 22 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	63.3%
d14-Dibenzo(a,h)anthracen	75.0%

Analytical Resources, Inc.

METHOD SW8270D-SIM

Data file : /chem3/nt2.i/20091119.b/111905.d
Lab Smp Id: PX44B Client Smp ID: AHA-01-4NE(0-2)
Inj Date : 19-NOV-2009 14:13
Operator : VTS Inst ID: nt2.i
Smp Info : PX44B,5
Misc Info : 09-28004
Comment : 1ul Injection
Method : /chem3/nt2.i/20091119.b/simpna.m
Meth Date : 20-Nov-2009 11:28 peter Quant Type: ISTD
Cal Date : 02-NOV-2009 18:35 Cal File: ic110206.d
Als bottle: 5
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	12.80000	Weight of sample extracted (g)
M	13.40000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	1 Naphthalene-d8	136	5.799	5.791	(1.000)	396578	2.00000	
	2 Naphthalene	128	5.831	5.819	(1.005)	33067	0.16787	37.86
$	3 2-Methylnaphthalene-d10	152	6.847	6.841	(1.181)	39853	0.37567	84.73
	4 2-Methylnaphthalene	142	6.897	6.889	(1.189)	6303	0.05346	12.06
	5 1-Methylnaphthalene	142	Compound Not Detected.					
	7 Acenaphthylene	152	8.311	8.306	(0.971)	120521	0.69188	156.0
*	8 Acenaphthene-d10	164	8.560	8.555	(1.000)	198348	2.00000	
	9 Acenaphthene	153	Compound Not Detected.					
	10 Dibenzofuran	168	Compound Not Detected.					
	11 Fluorene	166	9.409	9.413	(1.099)	6372	0.05331	12.02(M)
*	15 Phenanthrene-d10	188	10.895	10.896	(1.000)	292898	2.00000	
	16 Phenanthrene	178	10.933	10.931	(1.003)	235684	1.40014	315.8
	17 Anthracene	178	11.003	11.003	(1.010)	41035	0.24639	55.57
	19 Fluoranthene	202	12.849	12.846	(1.179)	672928	3.86234	871.1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	20 Pyrene	202	13.183	13.184	(0.883)	1034357	5.39331	1216
	22 Benzo(a)anthracene	228	14.909	14.907	(0.999)	480577	2.77762	626.4
*	23 Chrysene-d12	240	14.928	14.926	(1.000)	297265	2.00000	
	24 Chrysene	228	14.963	14.960	(1.002)	592353	3.45401	779.0
	28 Benzo(b)fluoranthene	252	16.190	16.175	(0.978)	811909	4.99562	1127
	29 Benzo(k)fluoranthene	252	16.190	16.197	(0.978)	816121	4.49197	1013
	30 Benzo(a)pyrene	252	16.493	16.488	(0.997)	566049	4.13195	931.9
*	31 Perylene-d12	264	16.547	16.544	(1.000)	273908	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.528	17.526	(1.059)	267718	1.93940	437.4
$	32 Dibenz(a,h)anthrancene-d14	292	17.512	17.510	(1.058)	38980	0.45425	102.4(M)
	34 Dibenz(a,h)anthracene	278	17.541	17.538	(1.060)	89383	0.83589	188.5
	35 Benzo(g,h,i)perylene	276	17.784	17.778	(1.075)	257639	2.24734	506.9

2.37

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: 111905.d
Lab Smp Id: PX44B
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20091119.b/simpna.m
Misc Info: 09-28004

Calibration Date: 19-NOV-2009
Calibration Time: 11:31
Client Smp ID: AHA-01-4NE(0-2)
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	353094	176547	706188	396578	12.32
8 Acenaphthene-d10	172751	86376	345502	198348	14.82
15 Phenanthrene-d10	254451	127226	508902	292898	15.11
23 Chrysene-d12	238407	119204	476814	297265	24.69
31 Perylene-d12	207102	103551	414204	273908	32.26

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	5.79	5.29	6.29	5.80	0.15
8 Acenaphthene-d10	8.55	8.05	9.05	8.56	0.07
15 Phenanthrene-d10	10.90	10.40	11.40	10.90	-0.01
23 Chrysene-d12	14.93	14.43	15.43	14.93	0.02
31 Perylene-d12	16.54	16.04	17.04	16.55	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA
Sample Matrix: SOLID
Lab Smp Id: PX44B
Level: LOW
Data Type: MS DATA
SpikeList File: soillcs.spk
Sublist File: pna1mn.sub
Method File: /chem3/nt2.i/20091119.b/simpna.m
Misc Info: 09-28004

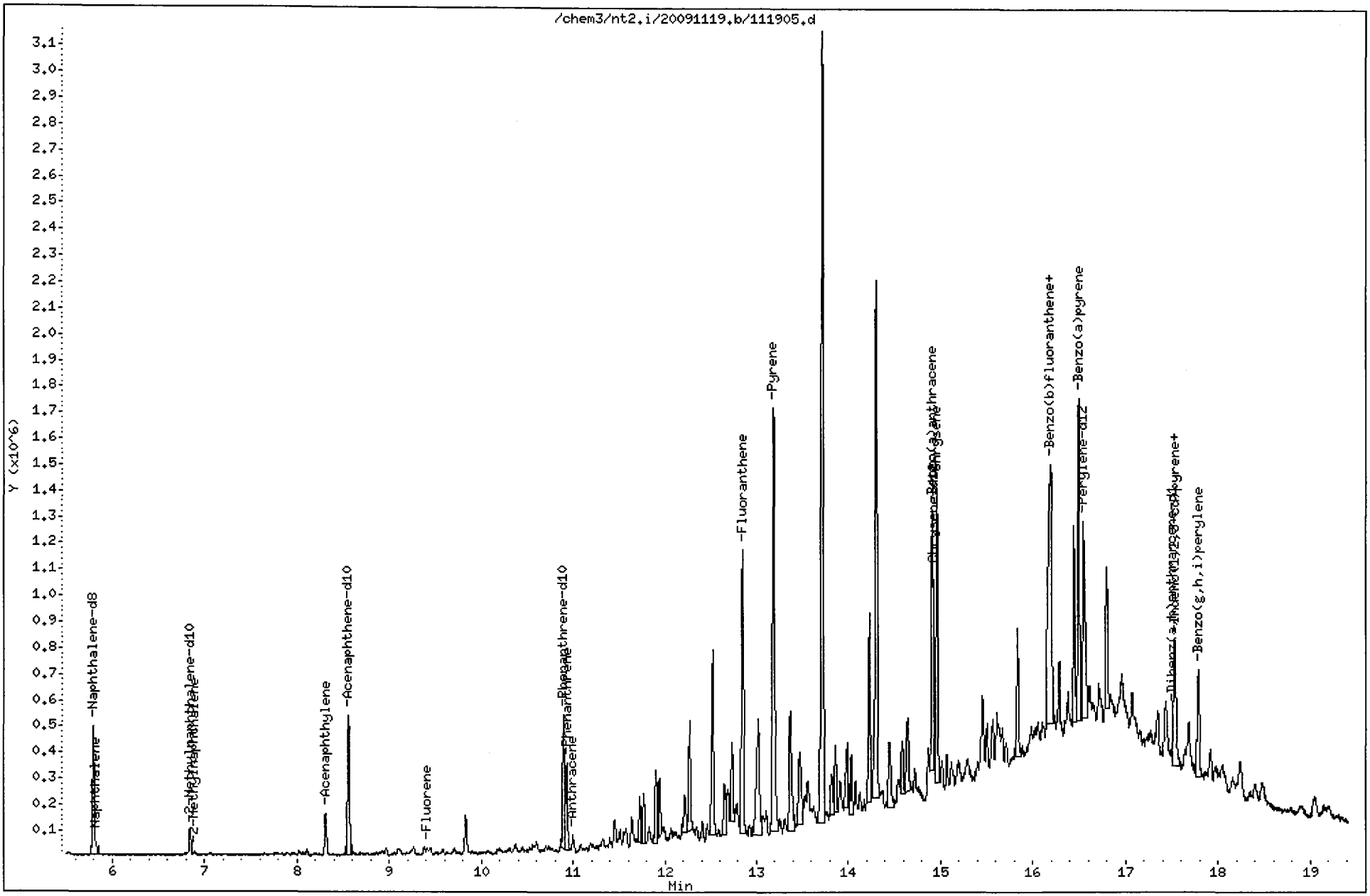
Client SDG: PX44
Fraction: SV
Client Smp ID: AHA-01-4NE(0-2)
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	135.3	84.73	62.61	34-100
$ 32 Dibenz(a,h)anthran	135.3	102.4	75.71	10-117

Data File: /chem3/nt2.i/20091119.b/111905.d
Date : 19-NOV-2009 14:13
Client ID: AHA-01-4NE(0-2)
Sample Info: PX44B,5
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25



PX44-001120

Data File: /chem3/nt2.i/20091119.b/111905.d

Date : 19-NOV-2009 14:13

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B,5

Volume Injected (uL): 1.0

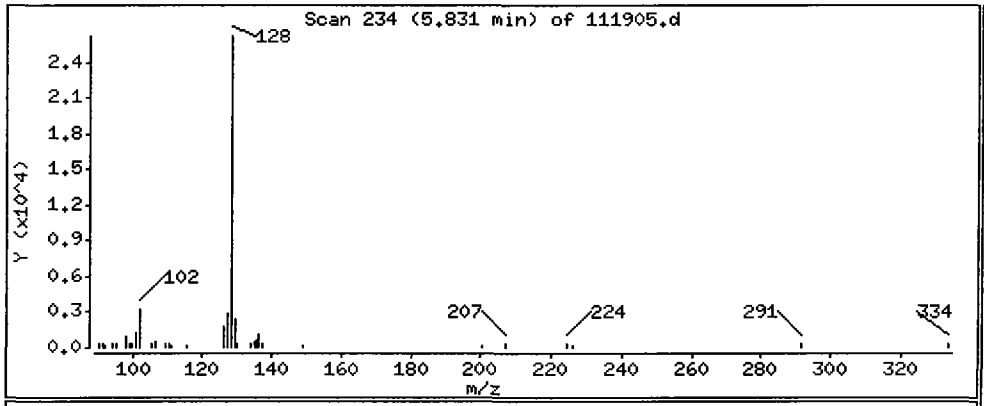
Operator: VTS

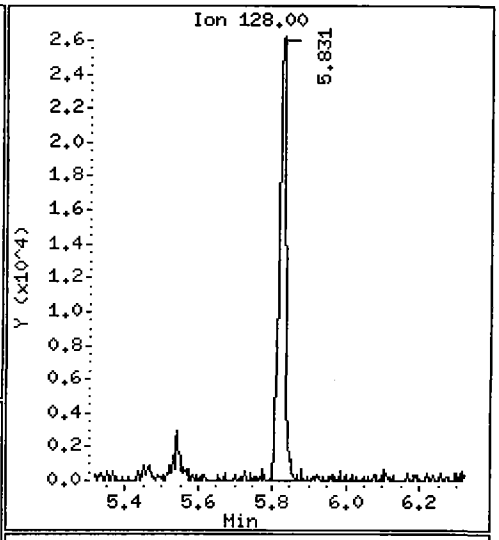
Column phase: ZB-5msi

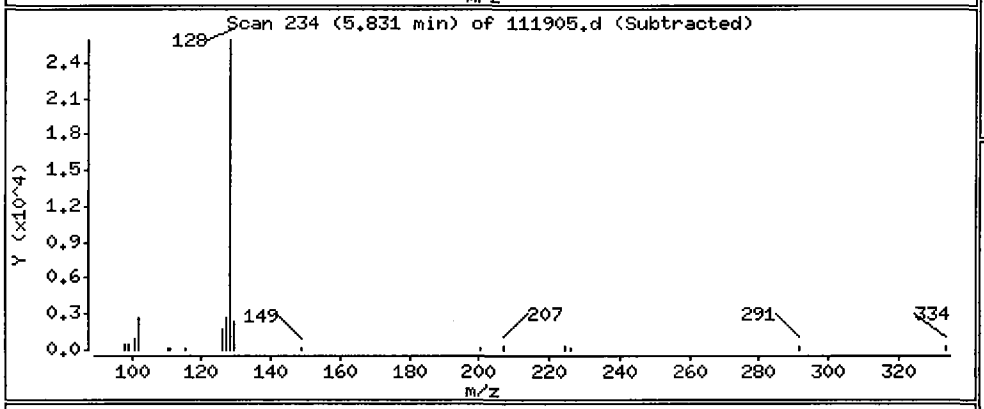
Column diameter: 0.25

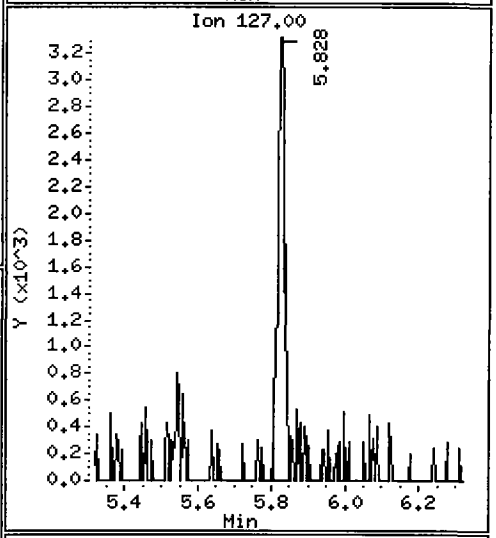
2 Naphthalene

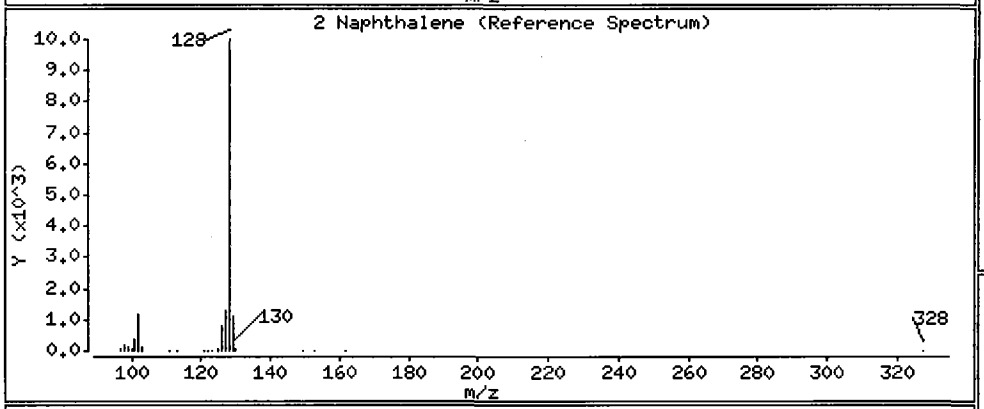
Concentration: 37.86 ug/kg

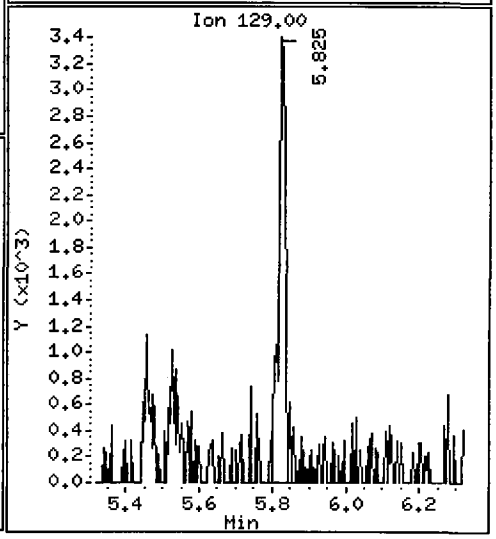


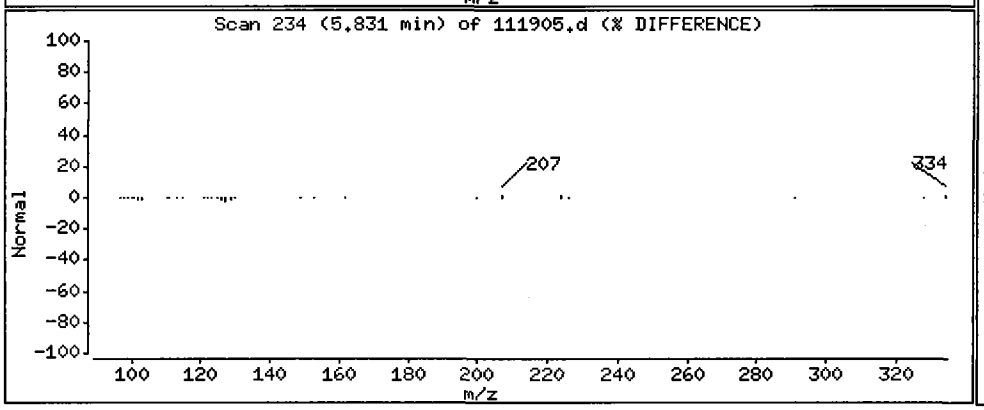












Data File: /chem3/nt2.i/20091119.b/111905.d

Date : 19-NOV-2009 14:13

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B,5

Volume Injected (uL): 1.0

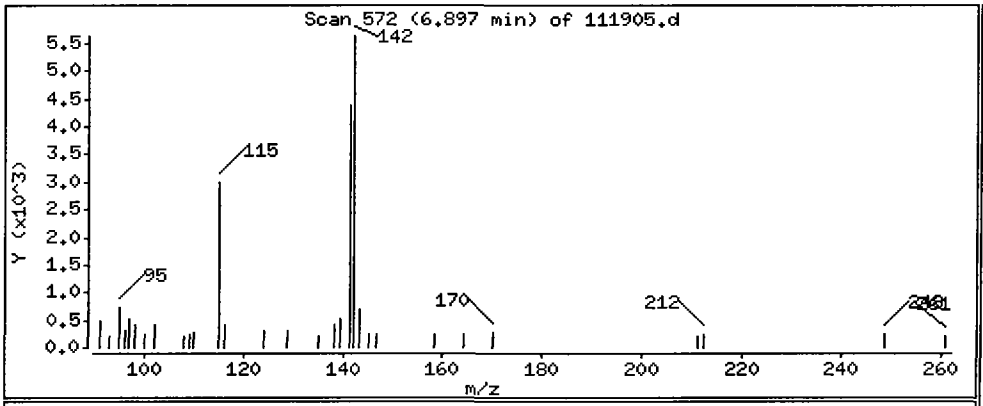
Operator: VTS

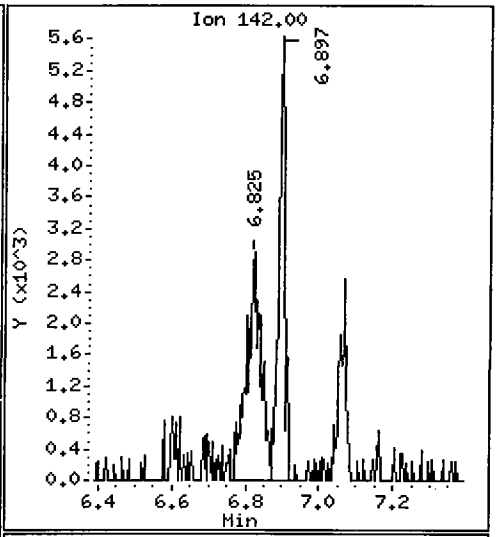
Column phase: ZB-5msi

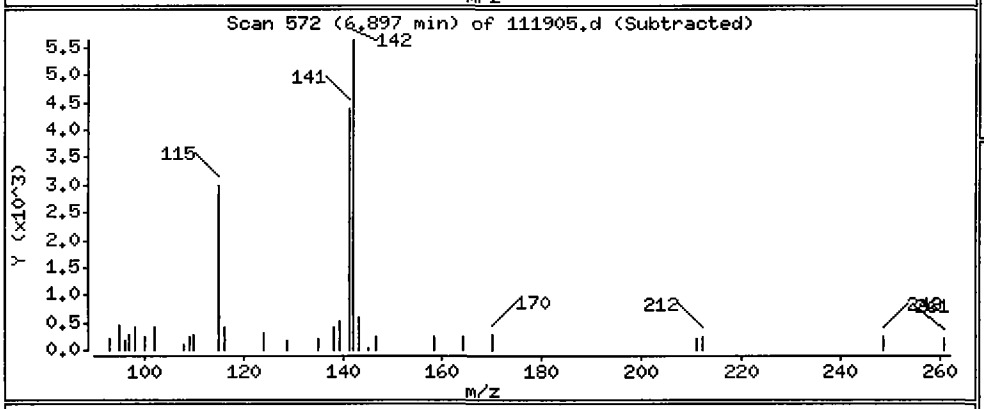
Column diameter: 0.25

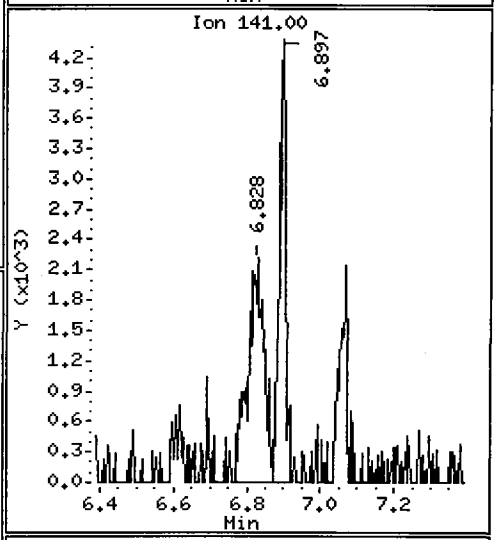
4 2-Methylnaphthalene

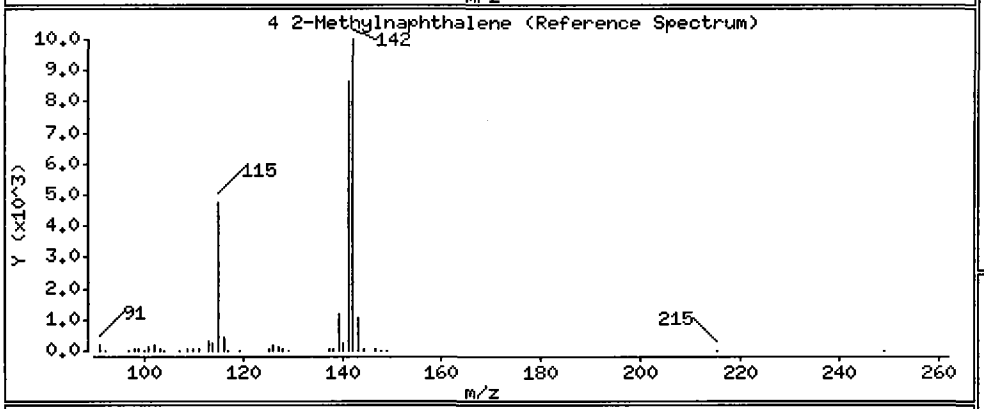
Concentration: 12.06 ug/kg

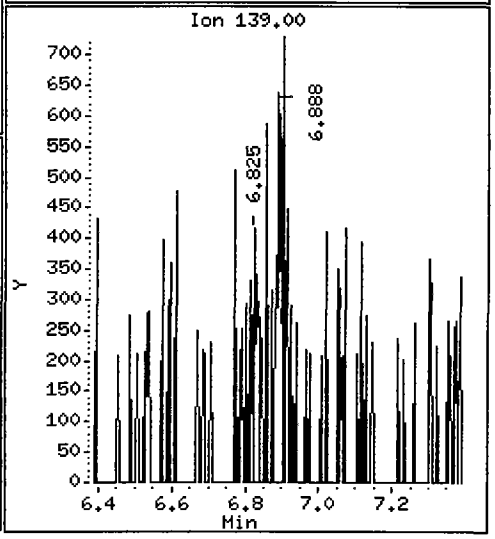


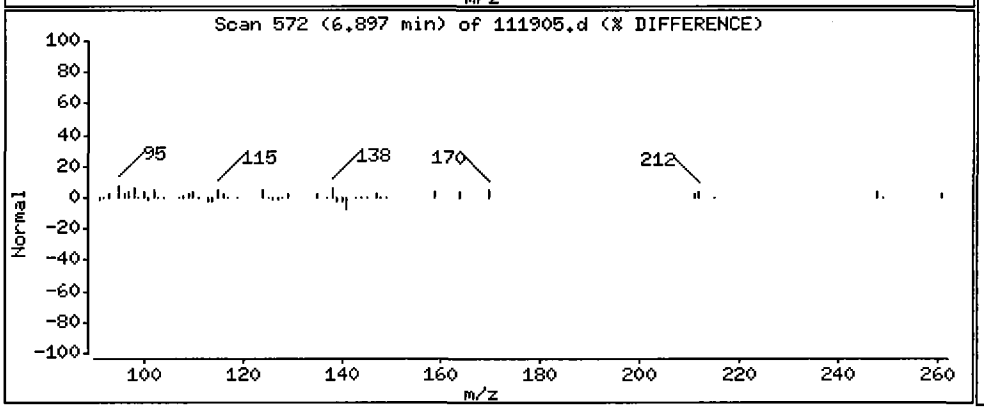












Data File: /chem3/nt2.i/20091119.b/111905.d

Date : 19-NOV-2009 14:13

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B,5

Volume Injected (uL): 1.0

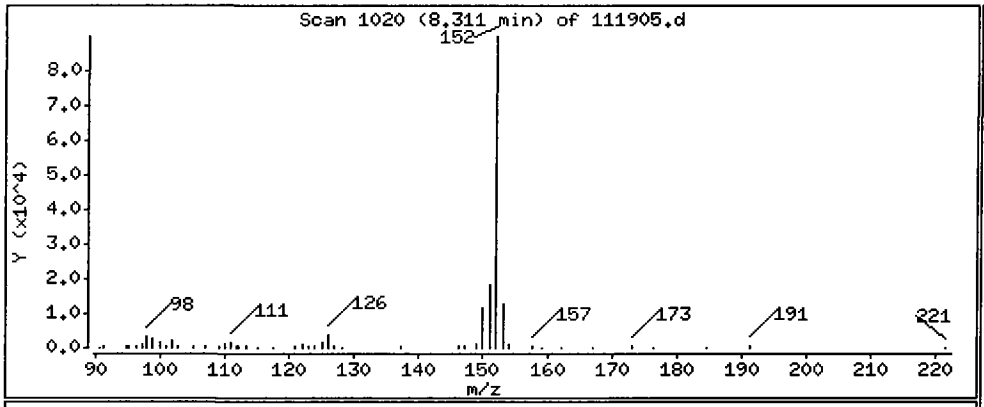
Operator: VTS

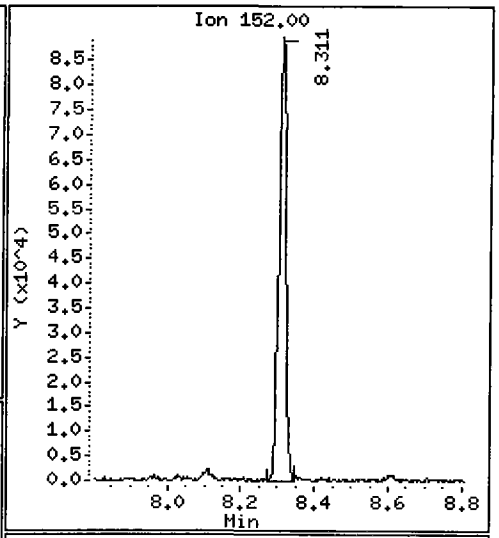
Column phase: ZB-5msi

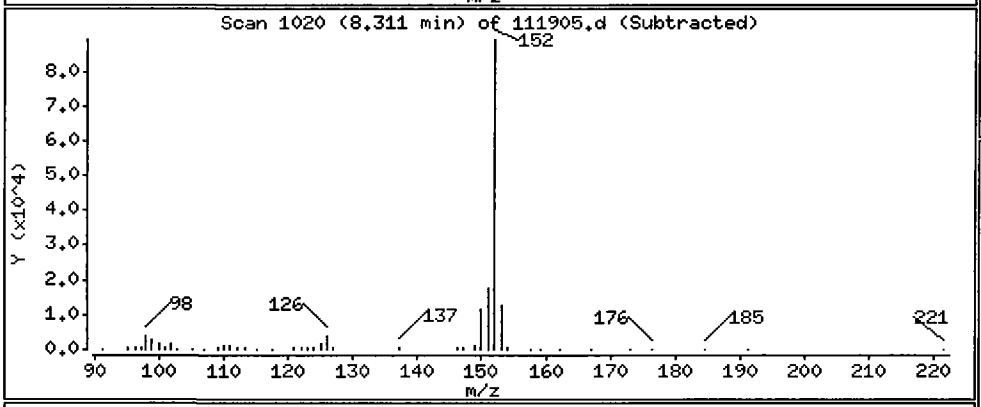
Column diameter: 0.25

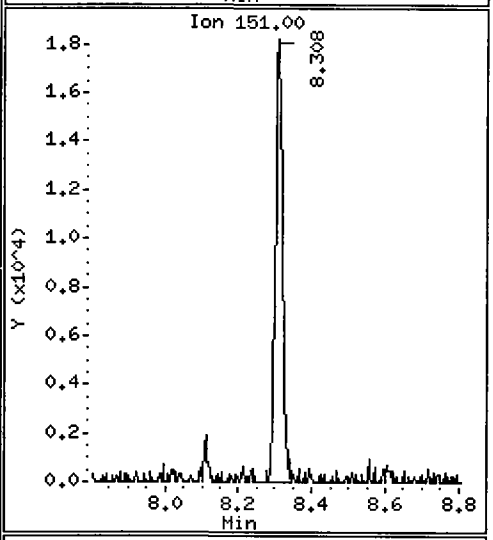
7 Acenaphthylene

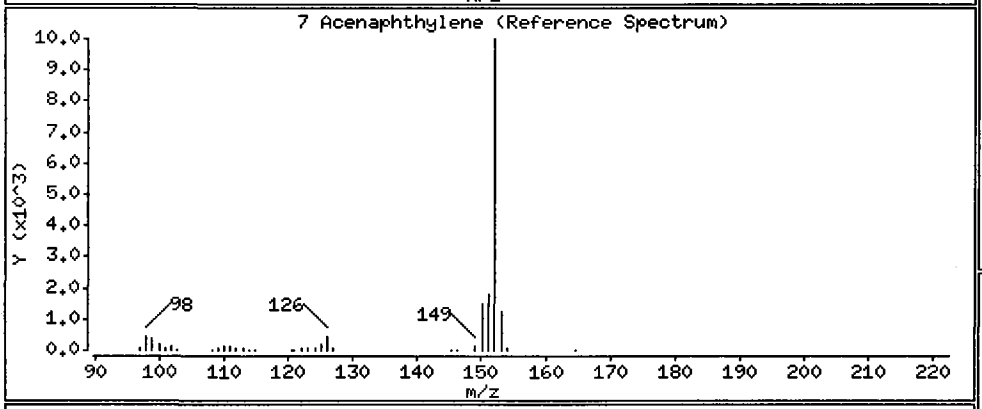
Concentration: 156.0 ug/kg

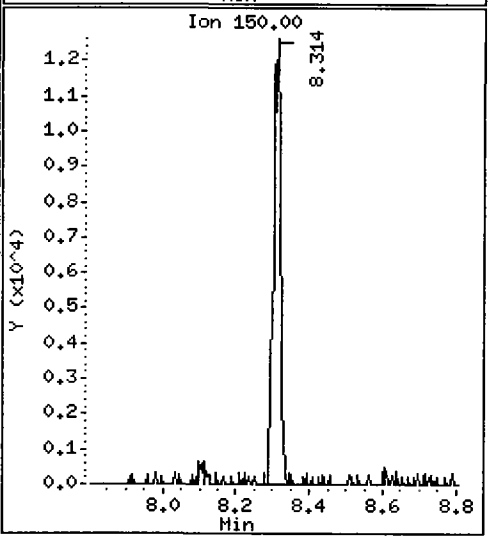


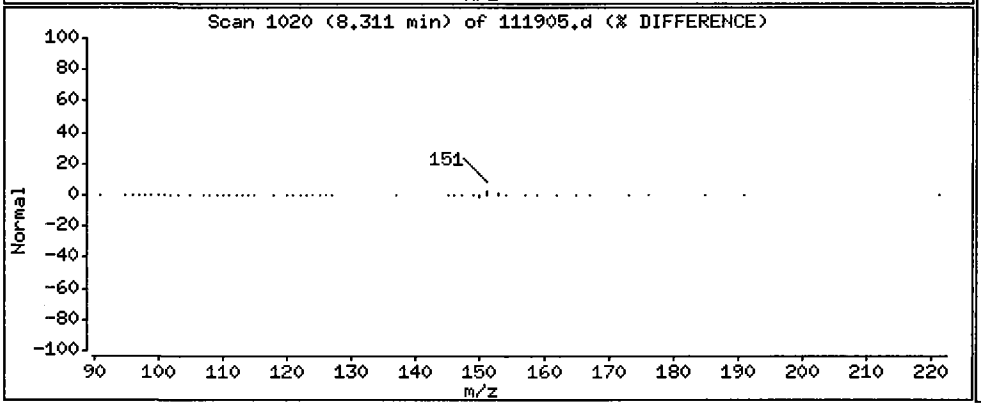












Data File: /chem3/nt2.i/20091119.b/111905.d

Date : 19-NOV-2009 14:13

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B,5

Volume Injected (uL): 1.0

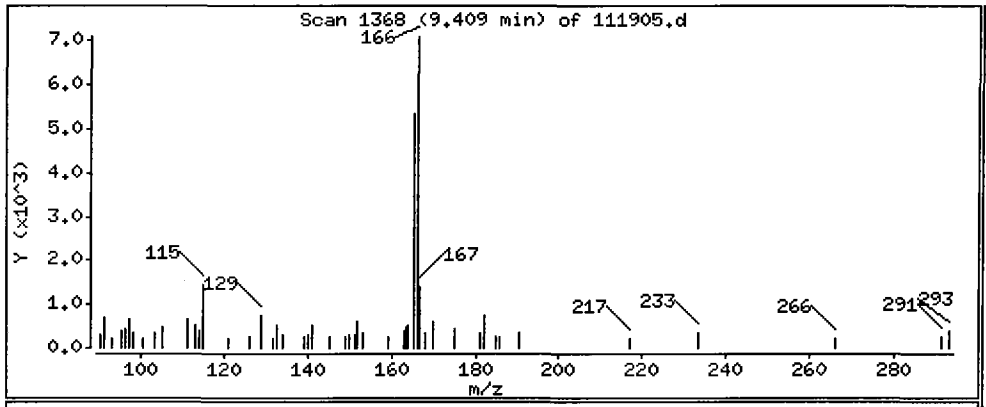
Operator: VTS

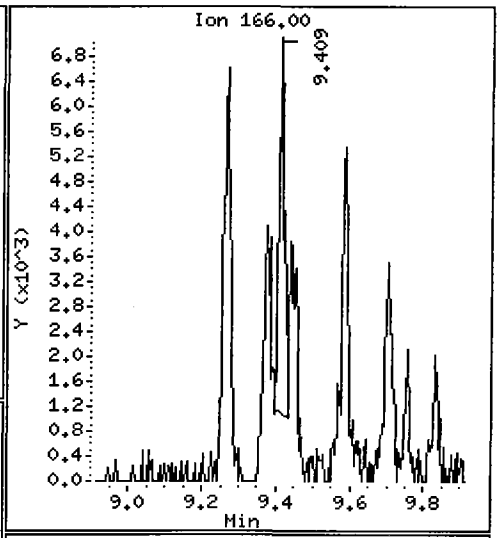
Column phase: ZB-5msi

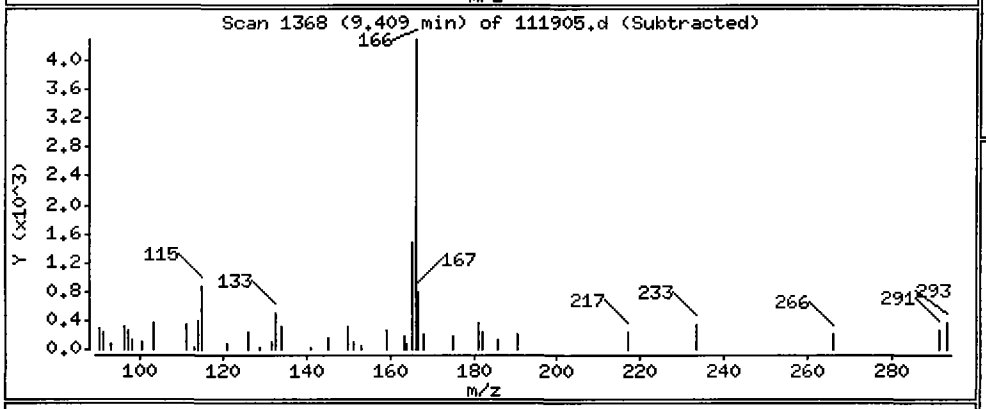
Column diameter: 0.25

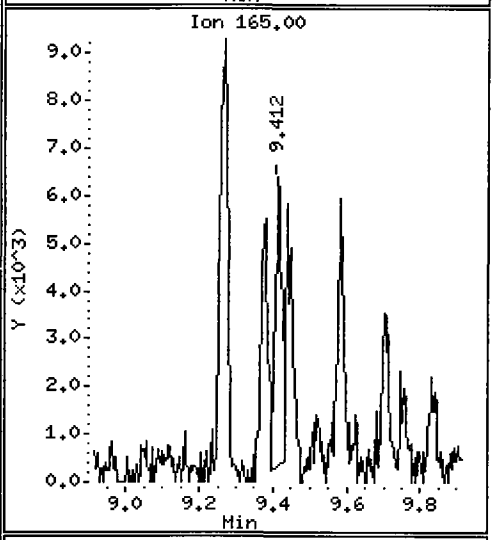
11 Fluorene

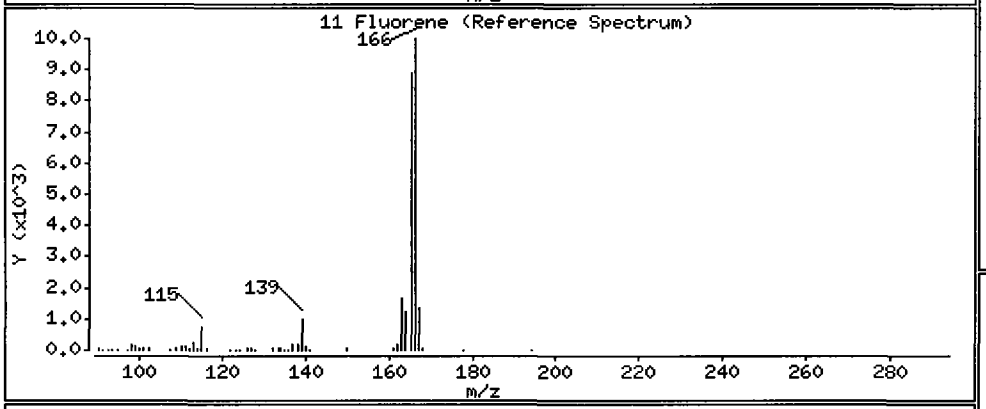
Concentration: 12.02 ug/kg

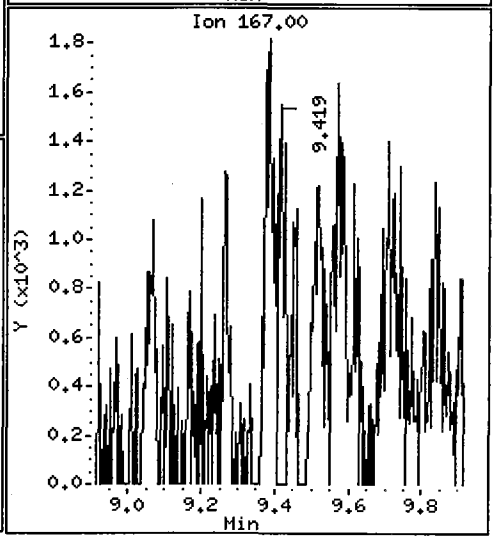


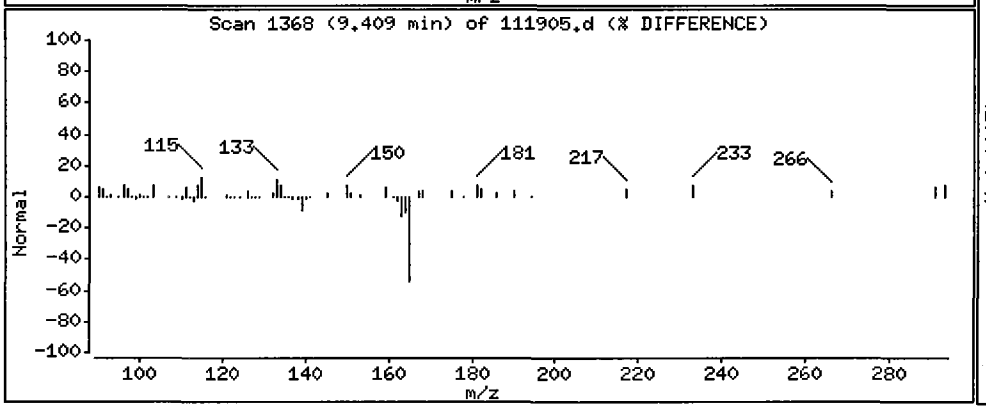












Data File: /chem3/nt2.i/20091119.b/111905.d

Date : 19-NOV-2009 14:13

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B,5

Volume Injected (uL): 1.0

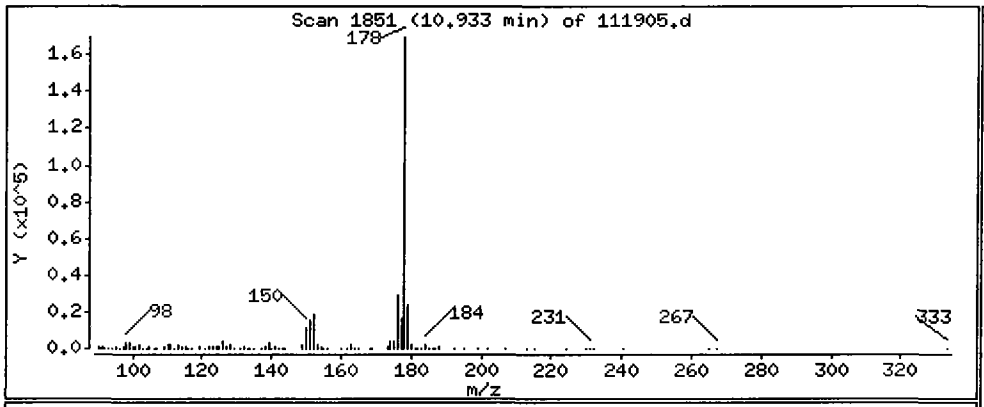
Operator: VTS

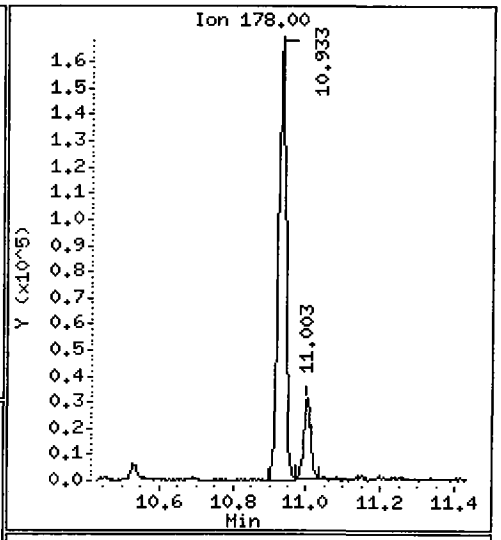
Column phase: ZB-5msi

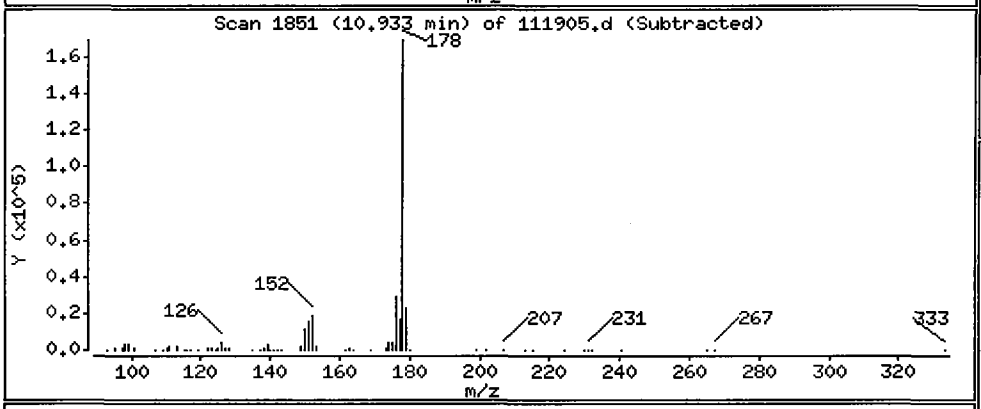
Column diameter: 0.25

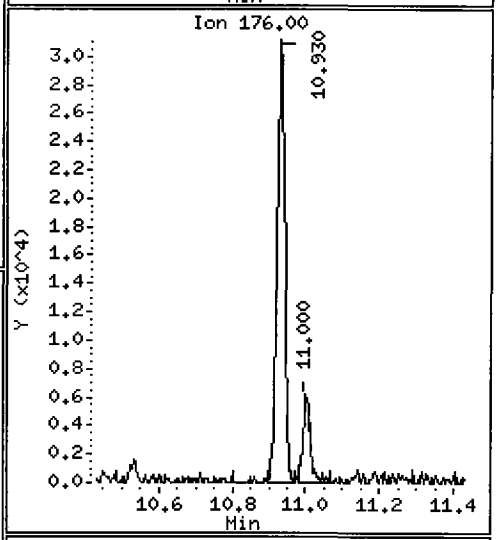
16 Phenanthrene

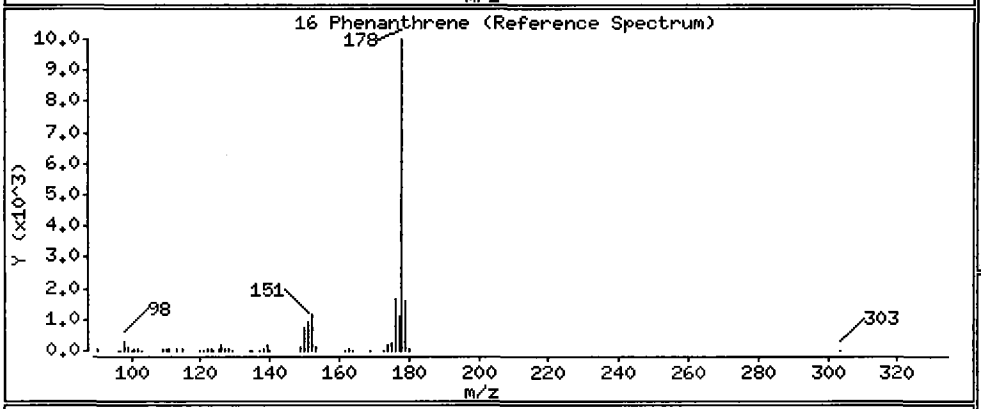
Concentration: 315.8 ug/kg

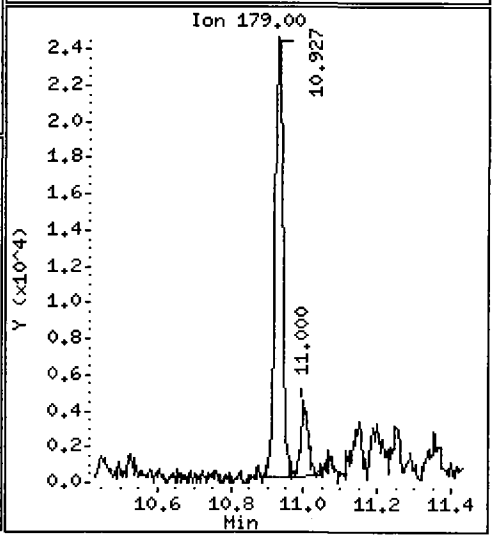


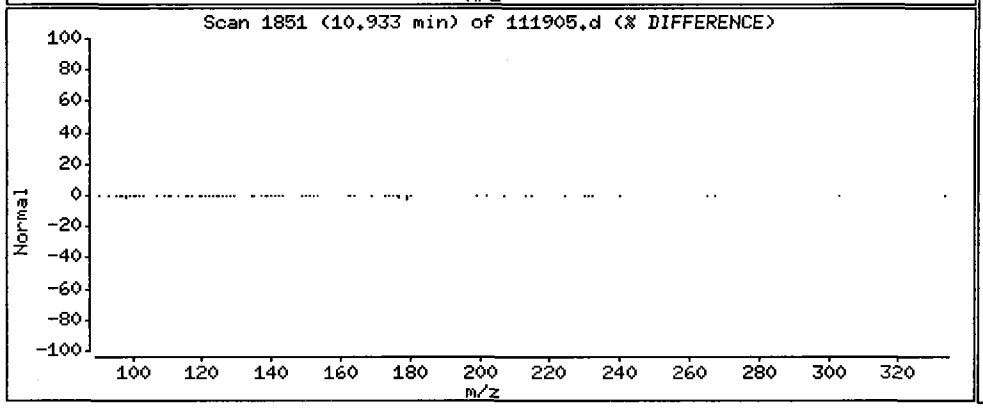












Data File: /chem3/nt2.i/20091119.b/111905.d

Date : 19-NOV-2009 14:13

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B,5

Volume Injected (uL): 1.0

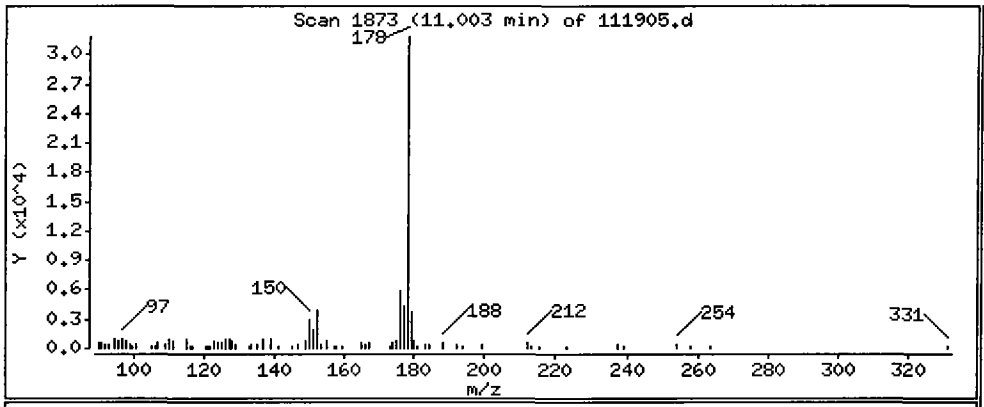
Operator: VTS

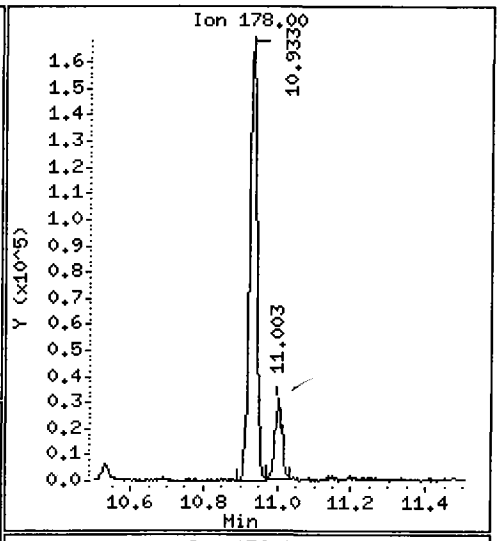
Column phase: ZB-5msi

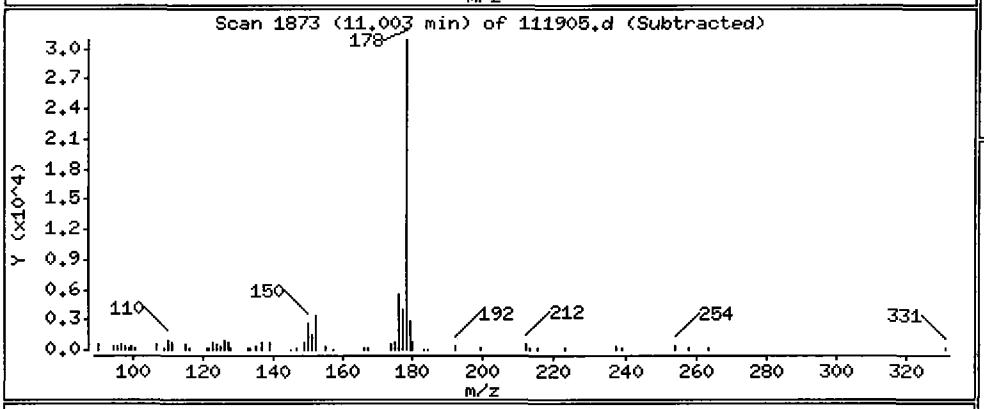
Column diameter: 0.25

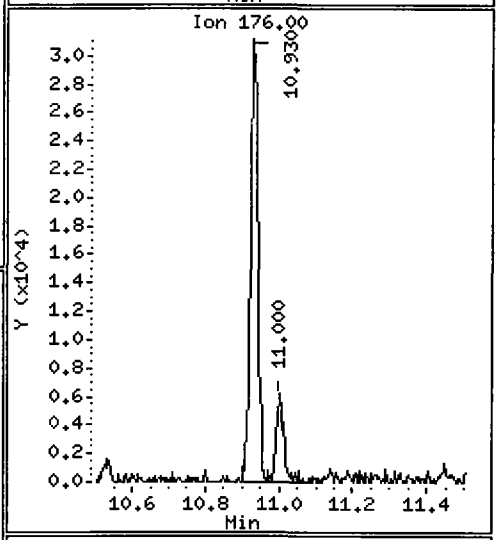
17 Anthracene

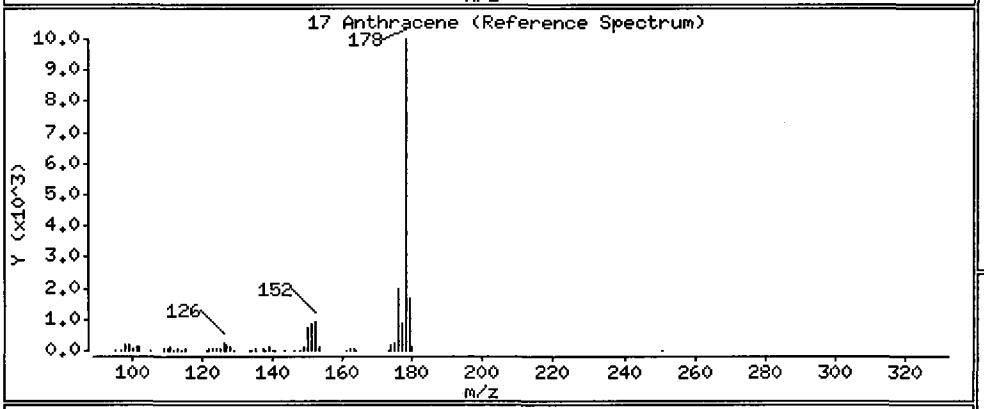
Concentration: 55.57 ug/kg

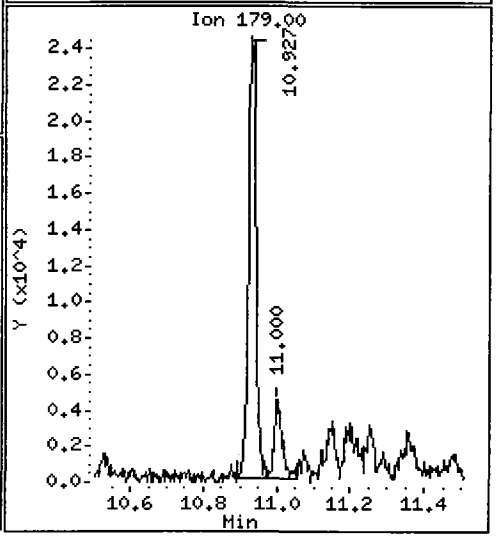


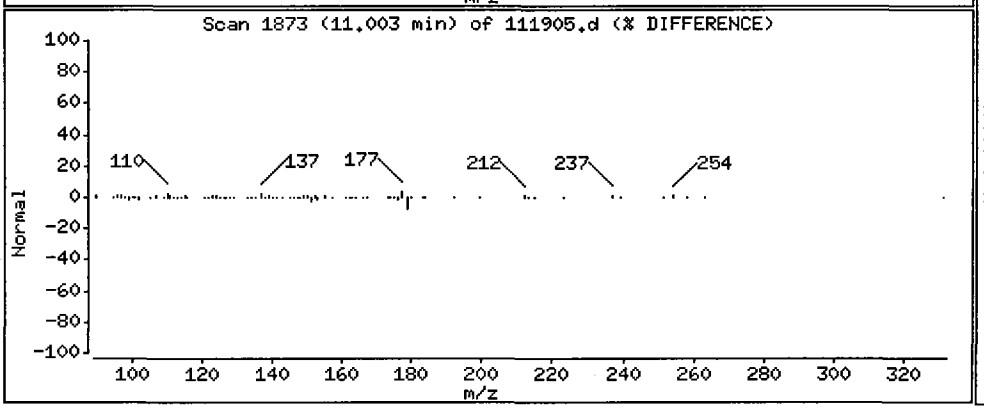












Data File: /chem3/nt2.i/20091119.b/111905.d

Date : 19-NOV-2009 14:13

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B,5

Volume Injected (uL): 1.0

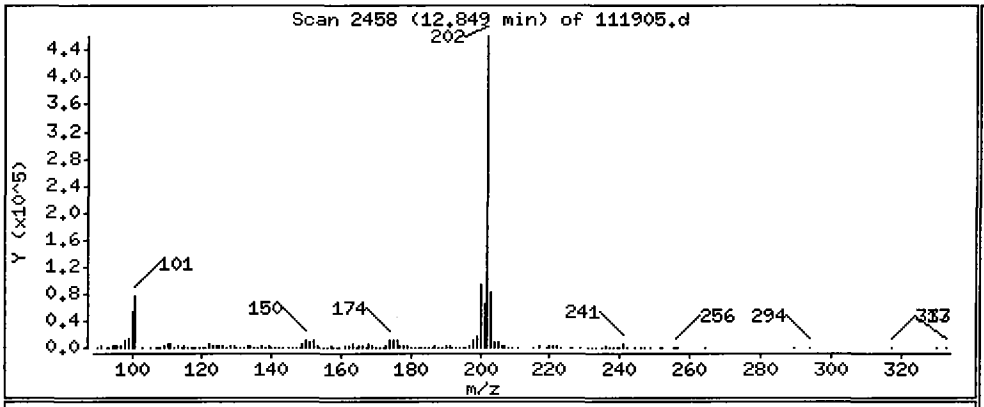
Operator: VTS

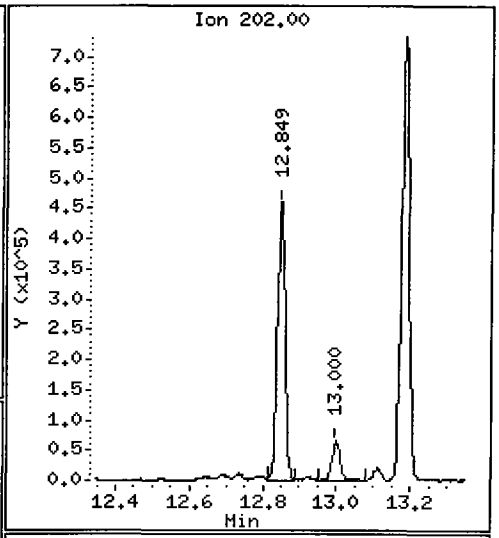
Column phase: ZB-5msi

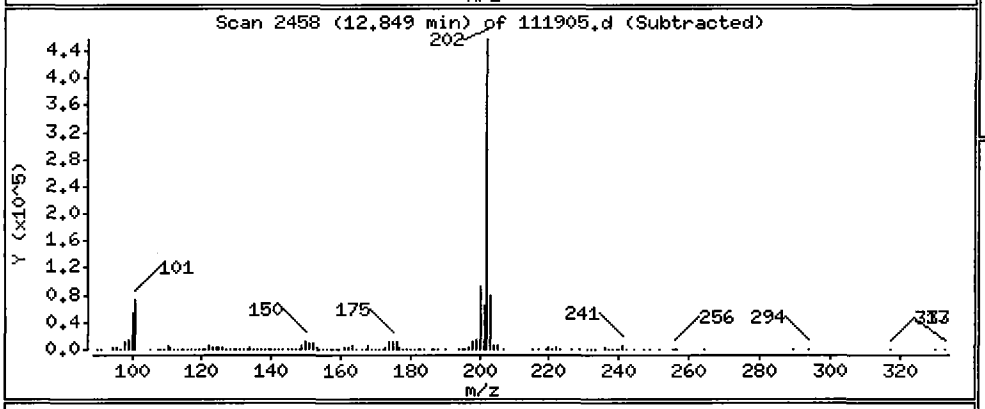
Column diameter: 0.25

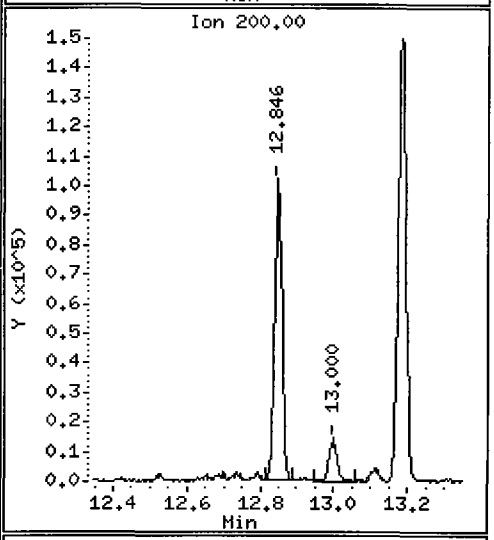
19 Fluoranthene

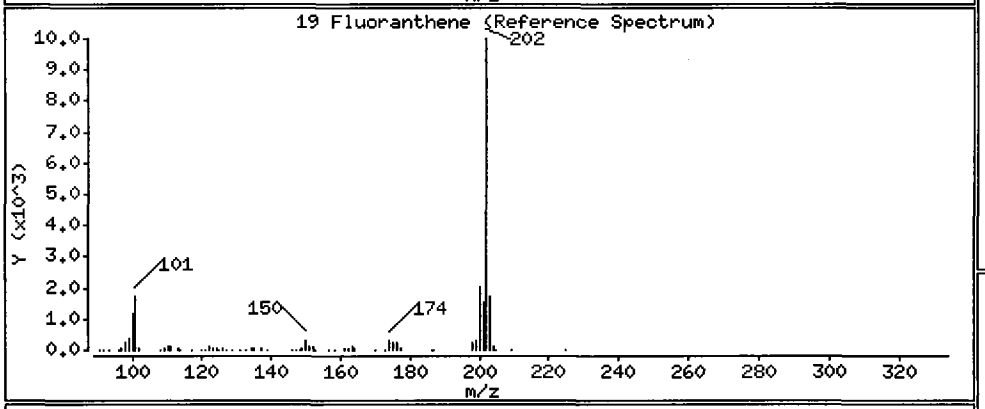
Concentration: 871.1 ug/kg

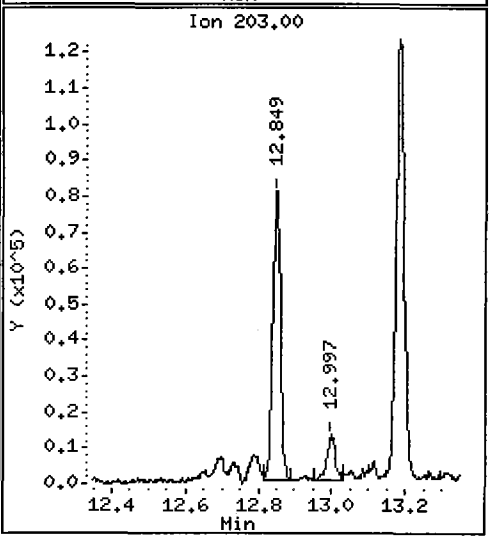


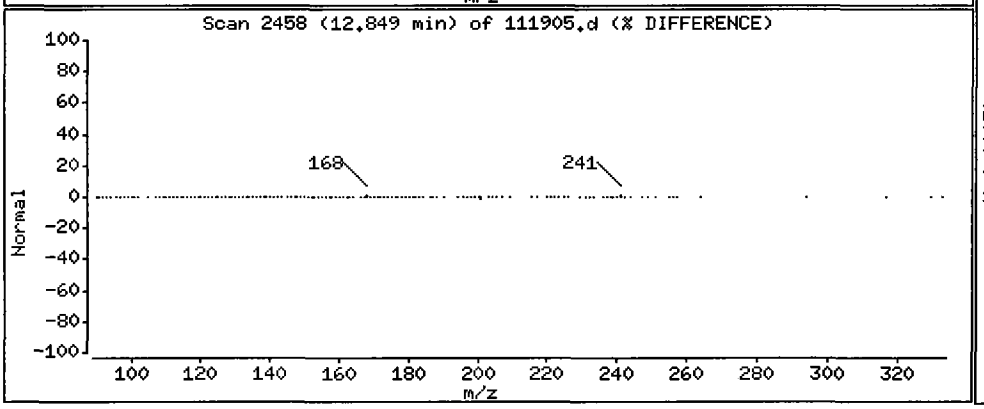












Data File: /chem3/nt2.i/20091119.b/111905.d

Date : 19-NOV-2009 14:13

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B,5

Volume Injected (uL): 1.0

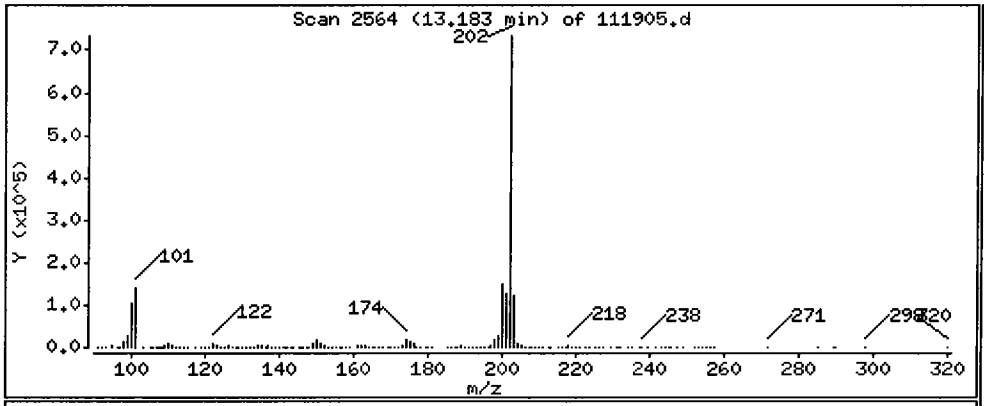
Operator: VTS

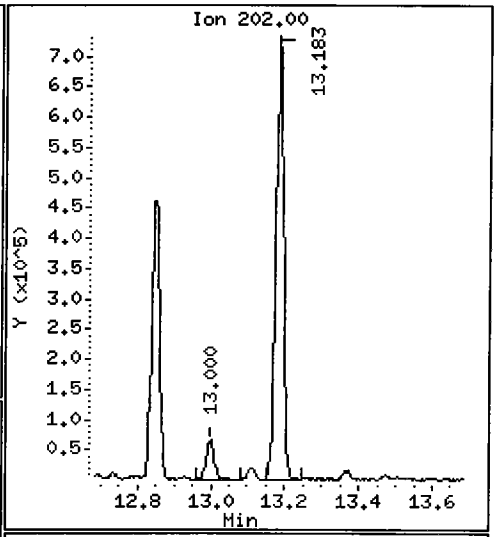
Column phase: ZB-5msi

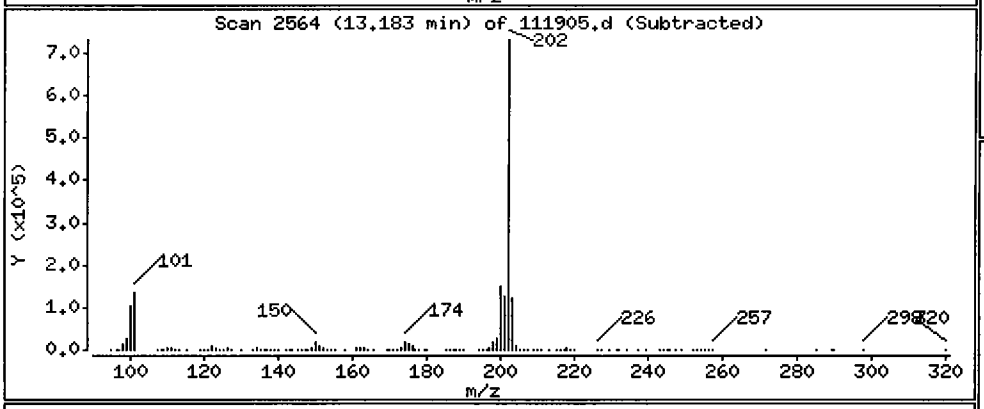
Column diameter: 0.25

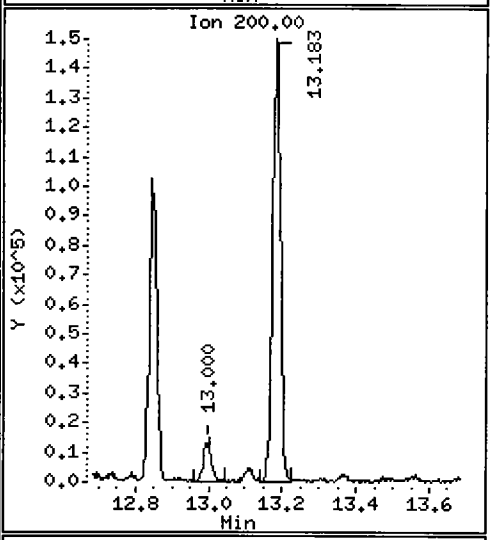
20 Pyrene

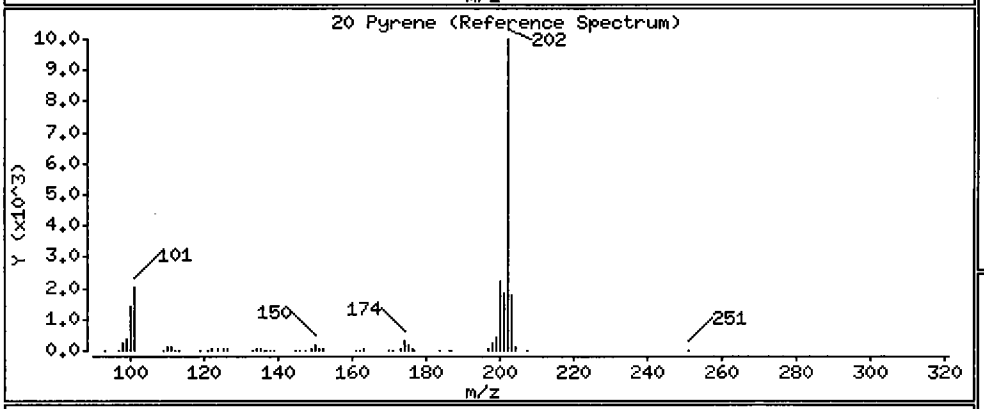
Concentration: 1216 ug/kg

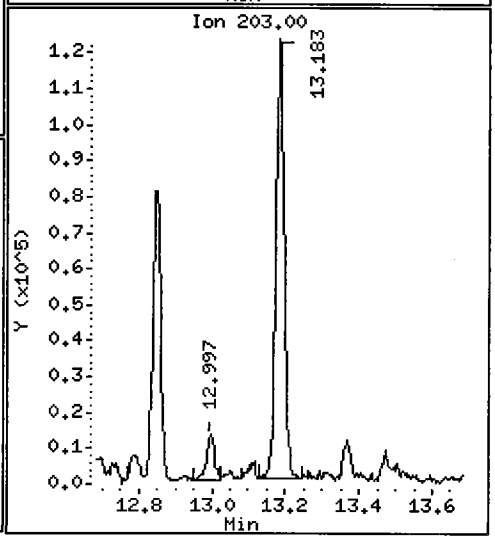


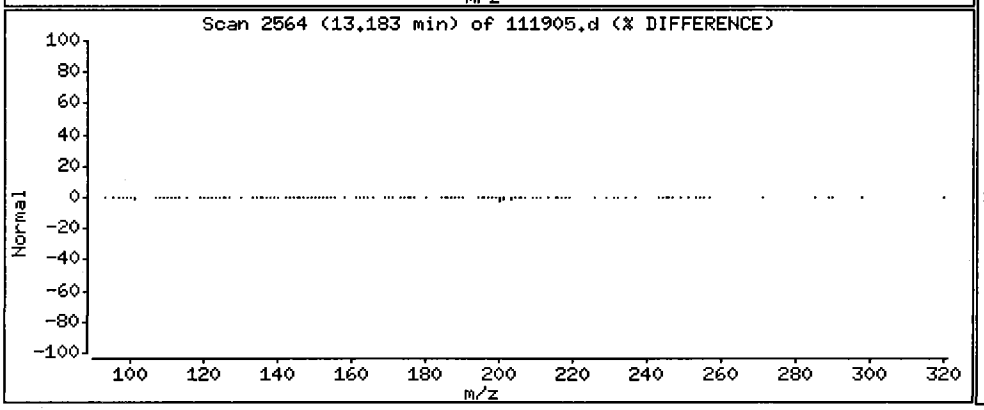












Data File: /chem3/nt2.i/20091119.b/111905.d

Date : 19-NOV-2009 14:13

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B,5

Volume Injected (uL): 1.0

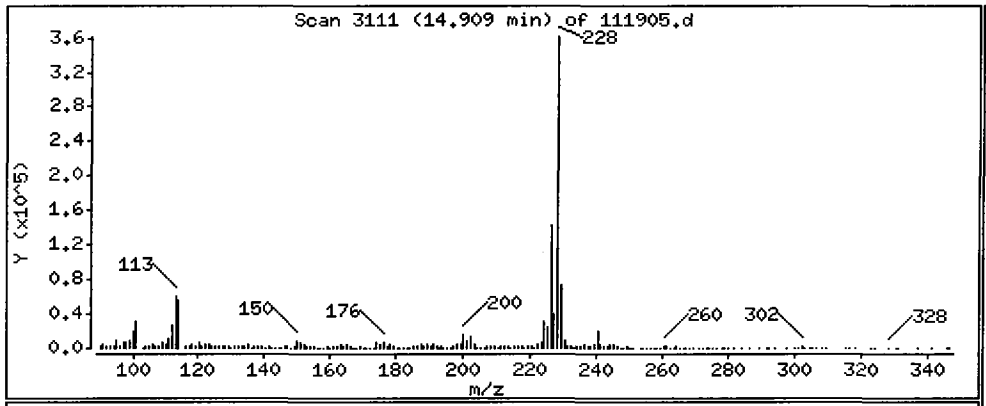
Operator: VTS

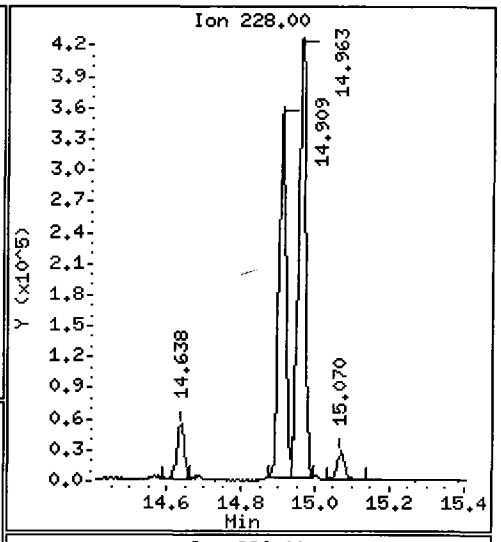
Column phase: ZB-5msi

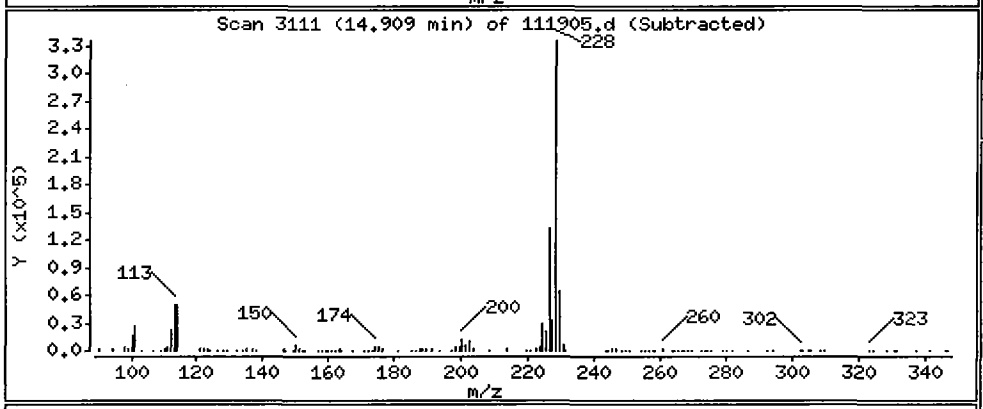
Column diameter: 0.25

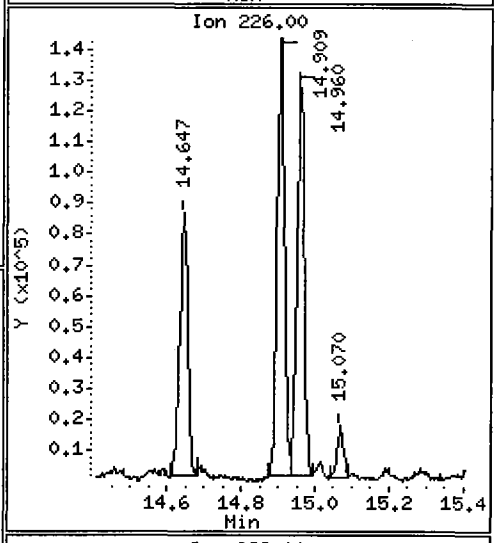
22 Benzo(a)anthracene

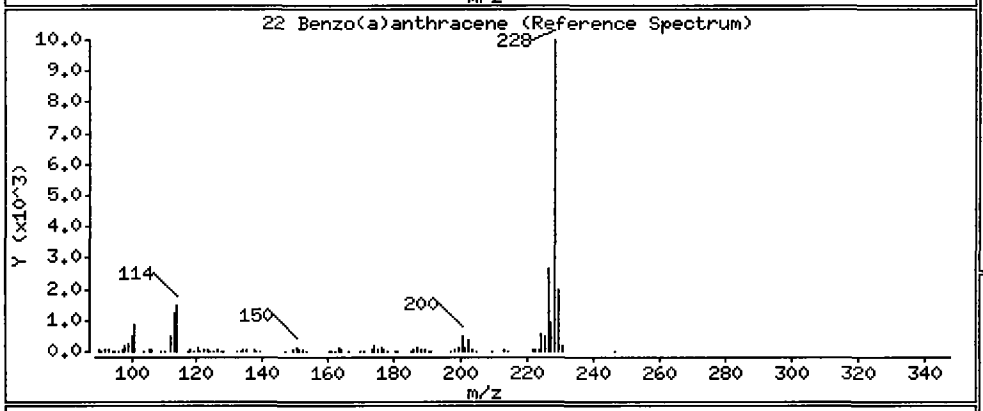
Concentration: 626.4 ug/kg

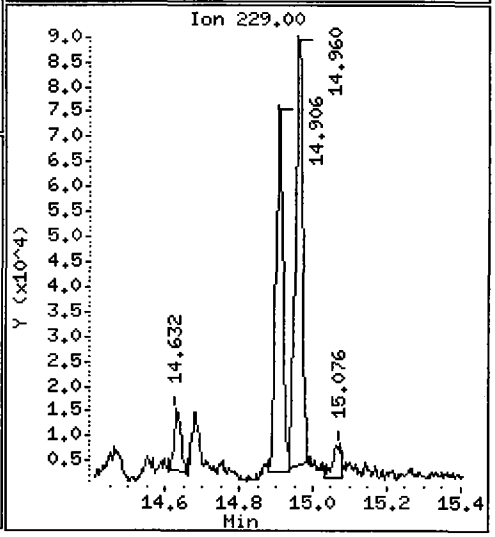


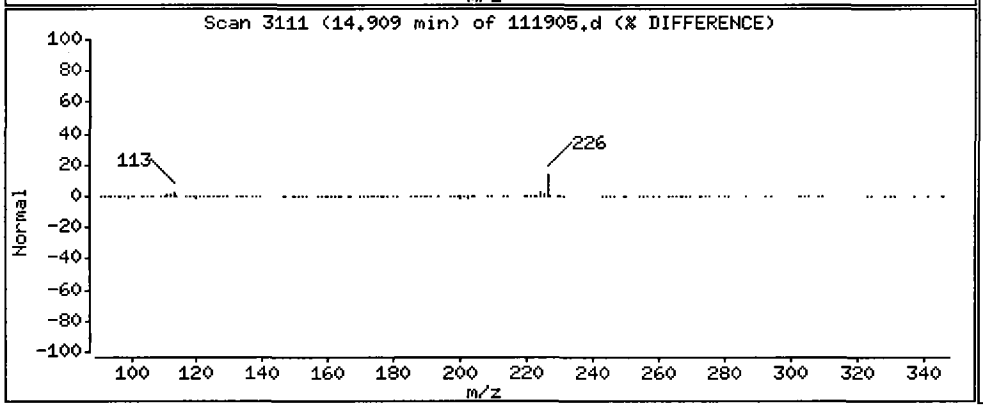












Data File: /chem3/nt2.i/20091119.b/111905.d

Date : 19-NOV-2009 14:13

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B,5

Volume Injected (uL): 1.0

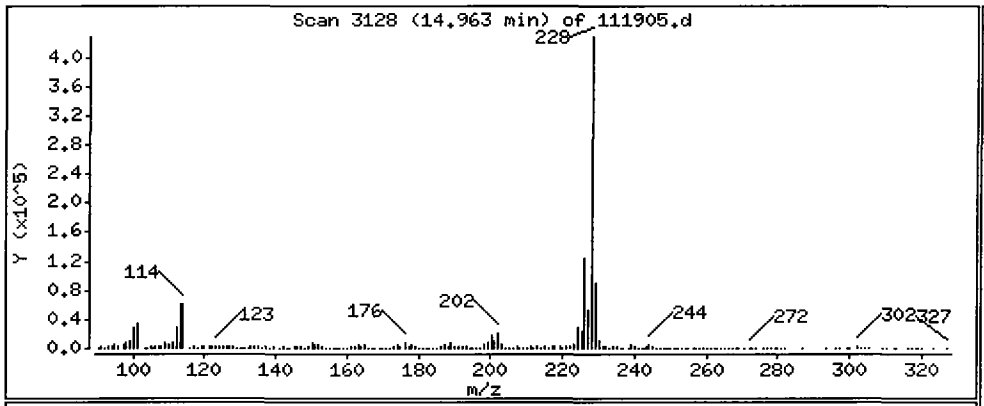
Operator: VTS

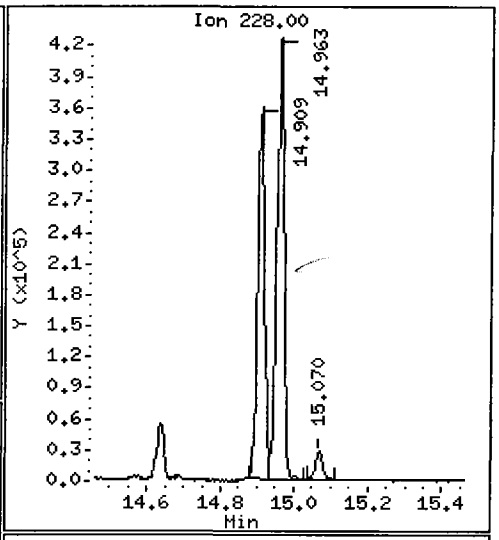
Column phase: ZB-5msi

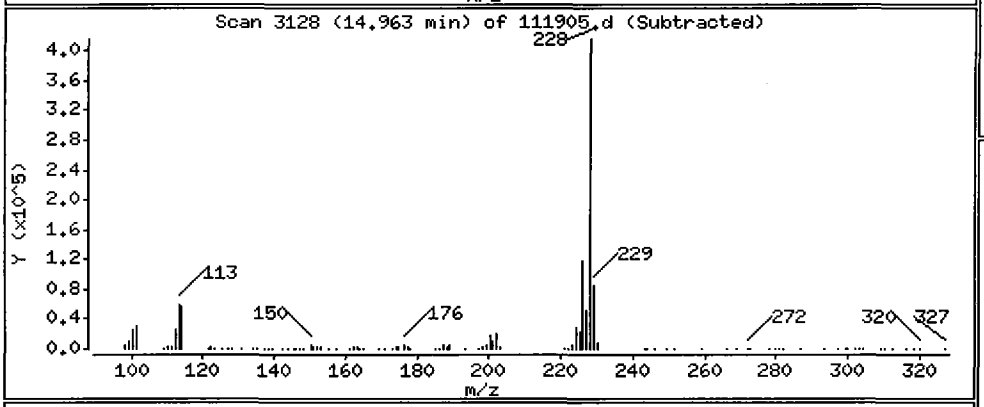
Column diameter: 0.25

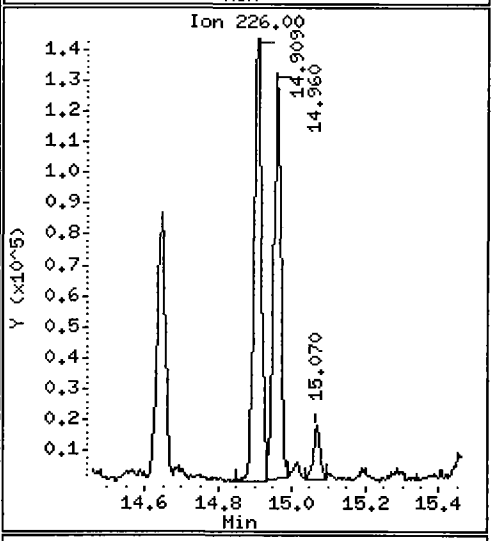
24 Chrysene

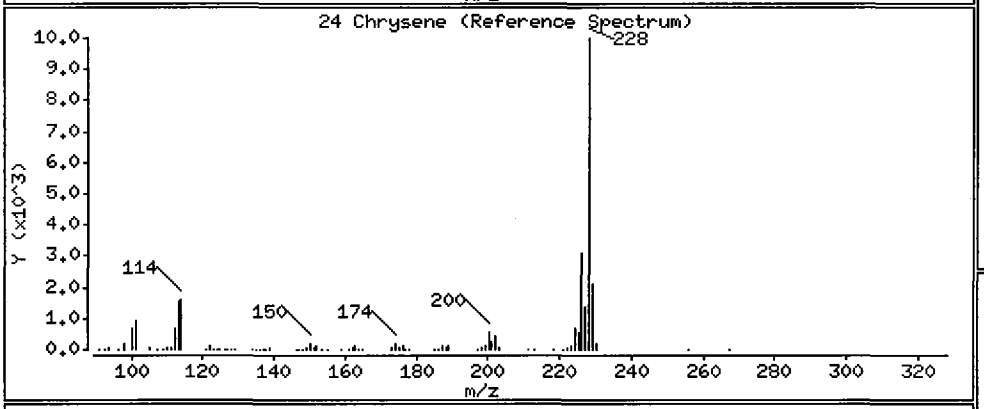
Concentration: 779.0 ug/kg

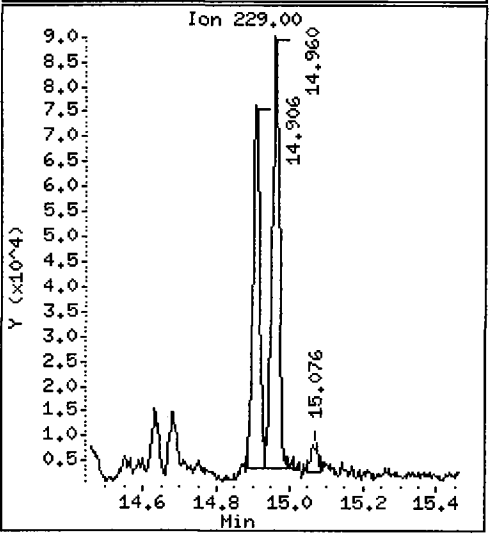


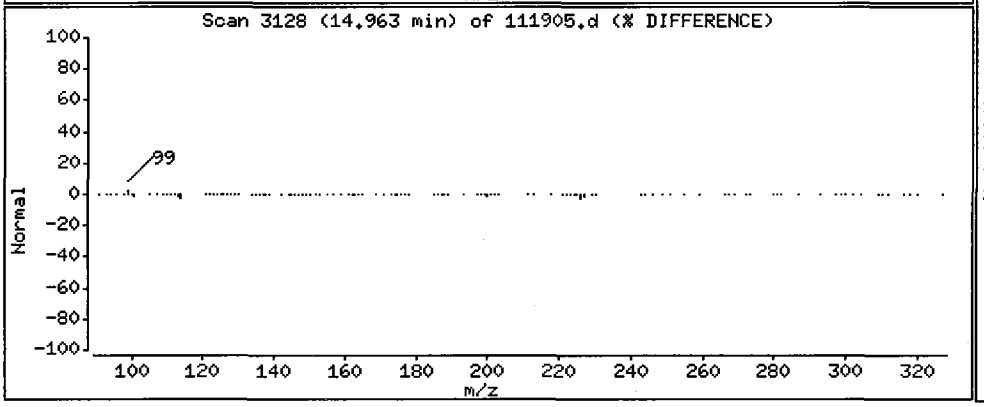












Data File: /chem3/nt2.i/20091119.b/111905.d

Date : 19-NOV-2009 14:13

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B,5

Volume Injected (uL): 1.0

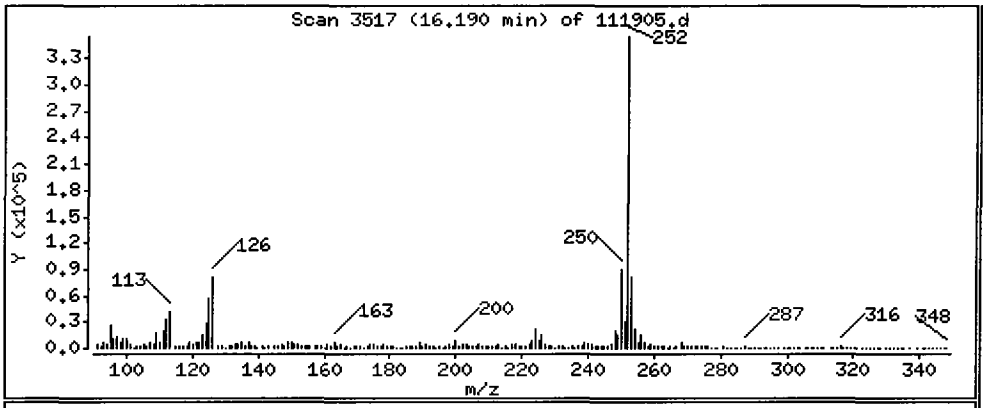
Operator: VTS

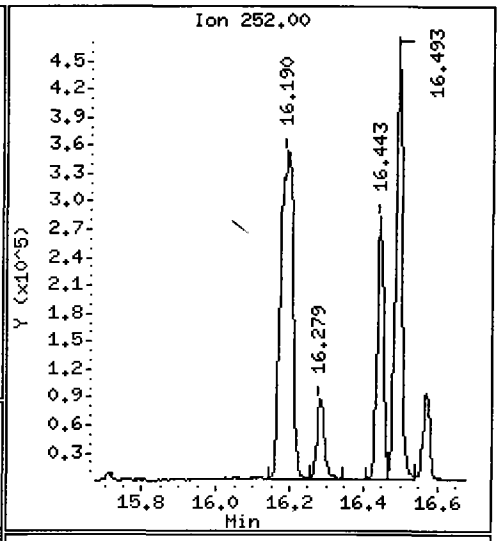
Column phase: ZB-5msi

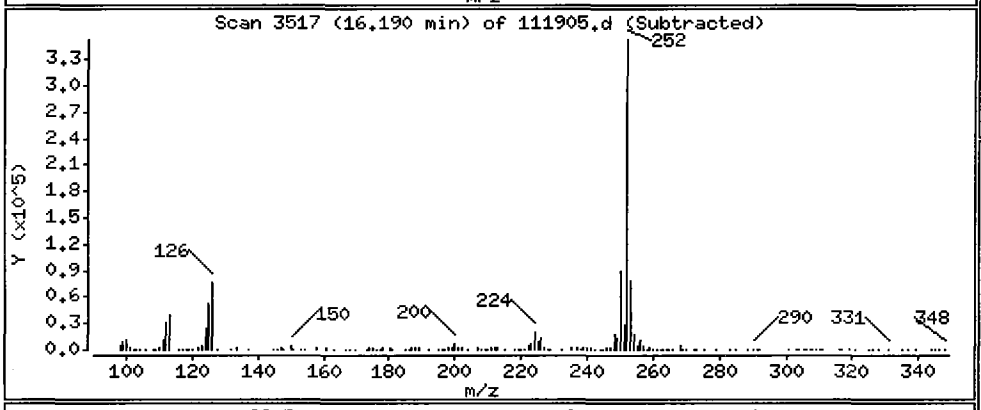
Column diameter: 0.25

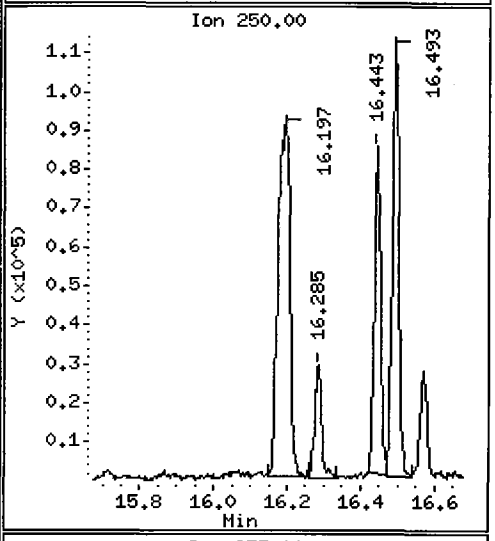
28 Benzo(b)fluoranthene

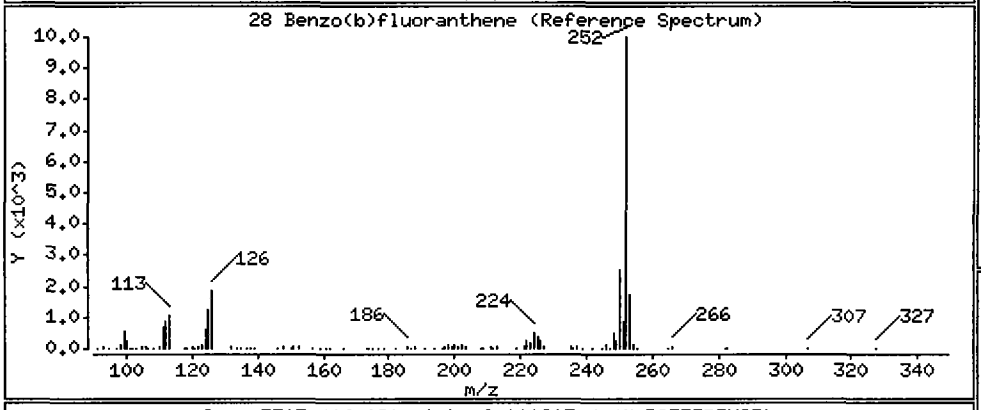
Concentration: 1127 ug/kg

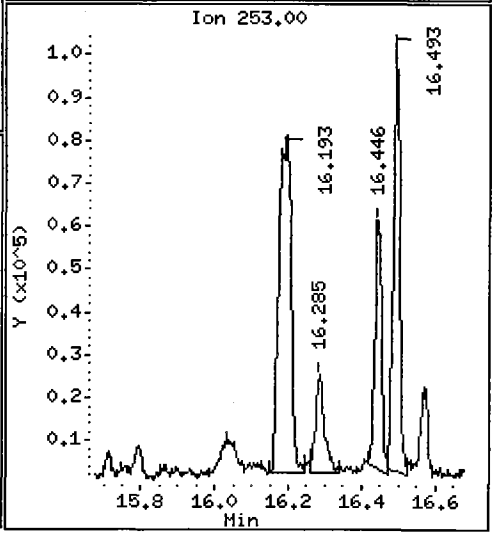


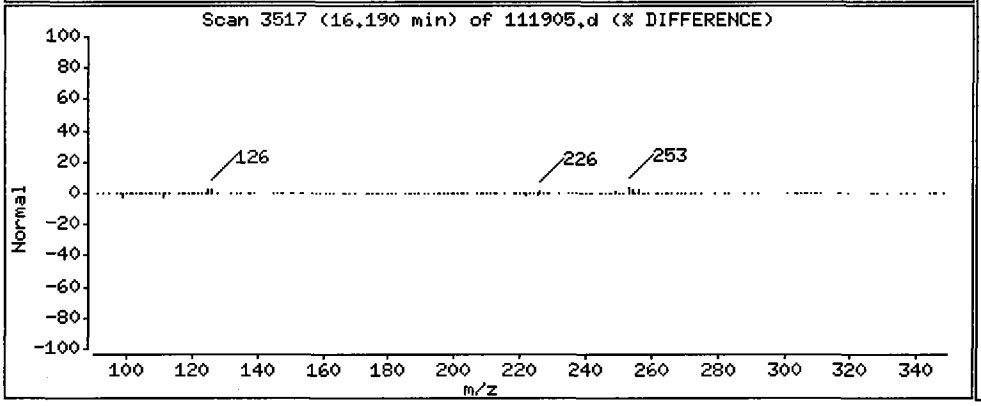












Data File: /chem3/nt2.i/20091119.b/111905.d

Date : 19-NOV-2009 14:13

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B,5

Volume Injected (uL): 1.0

Operator: VTS

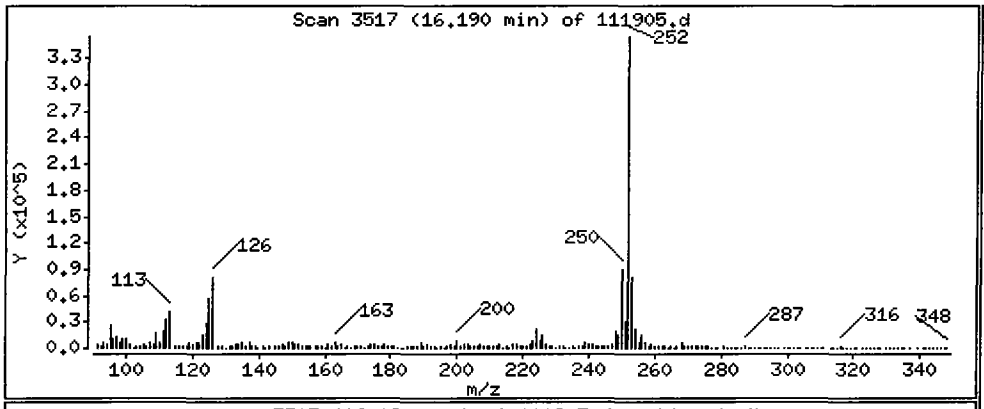
Column phase: ZB-5msi

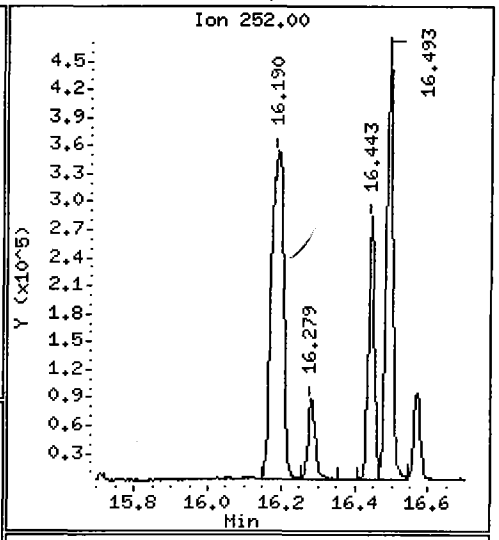
Column diameter: 0.25

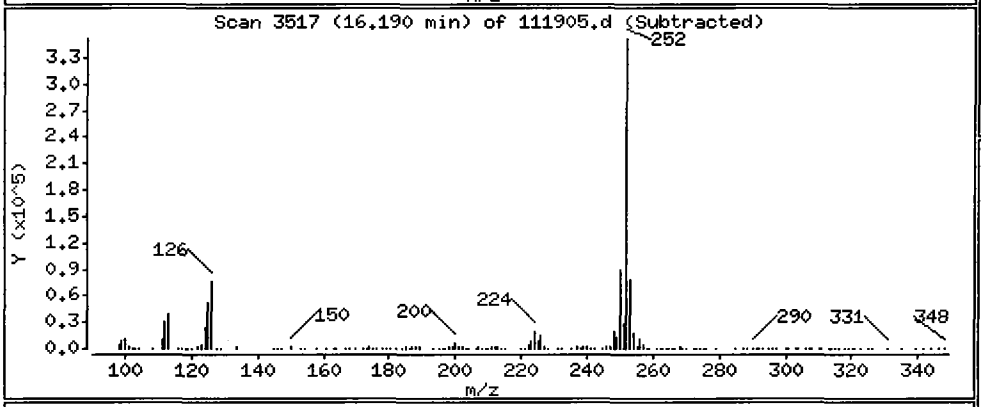
1/2

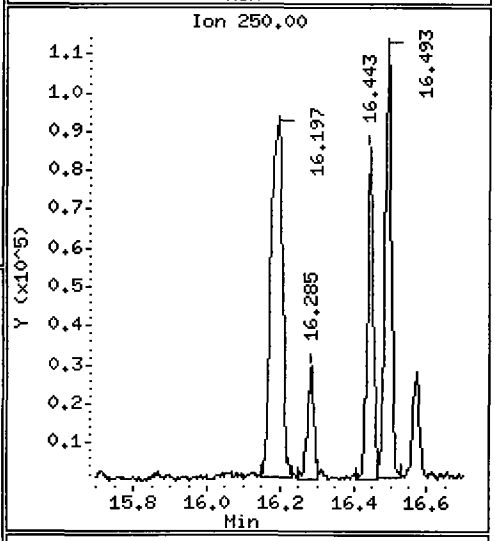
29 Benzo(k)fluoranthene

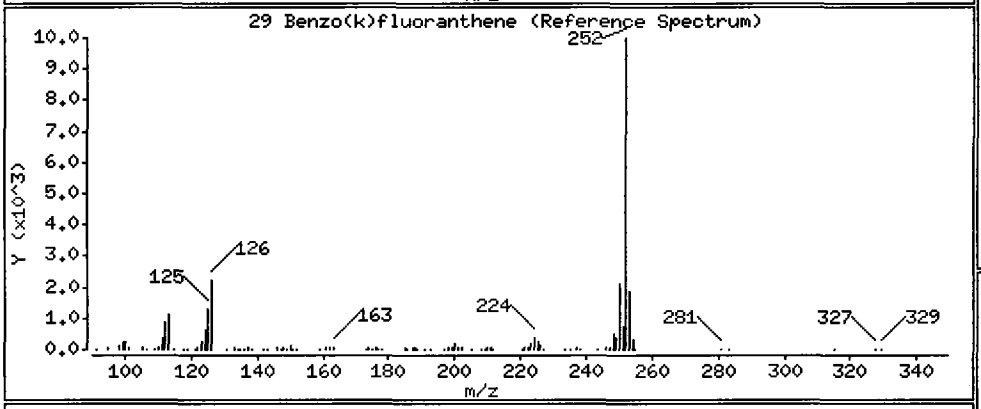
Concentration: 1013 ug/kg

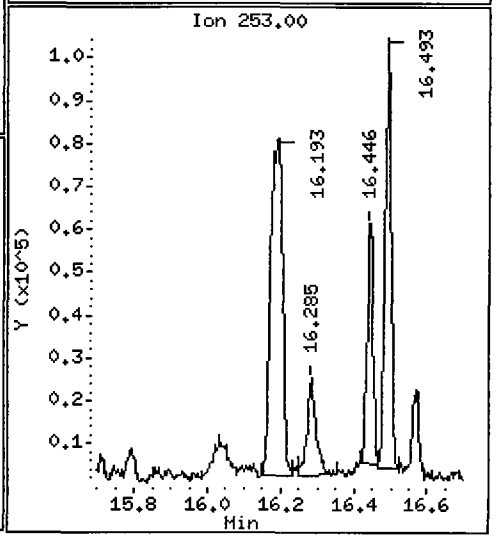


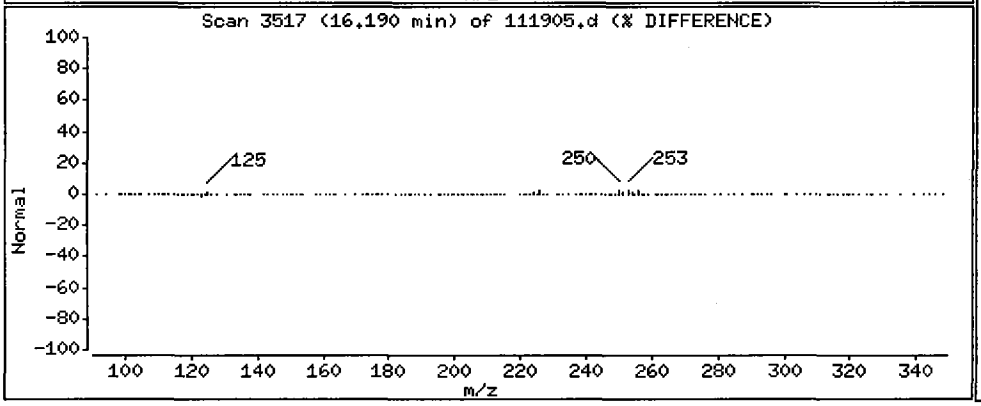












Data File: /chem3/nt2.i/20091119.b/111905.d

Date : 19-NOV-2009 14:13

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B,5

Volume Injected (uL): 1.0

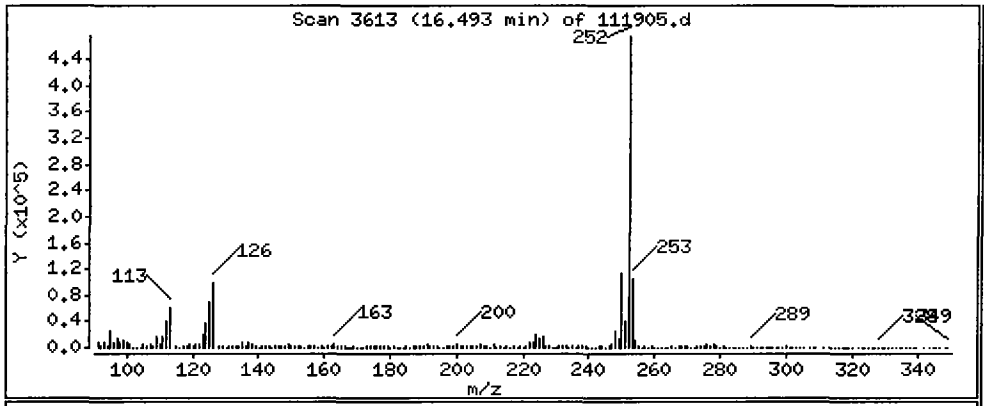
Operator: VTS

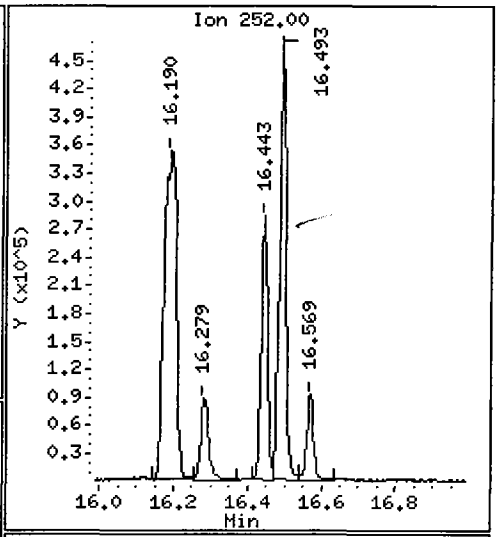
Column phase: ZB-5msi

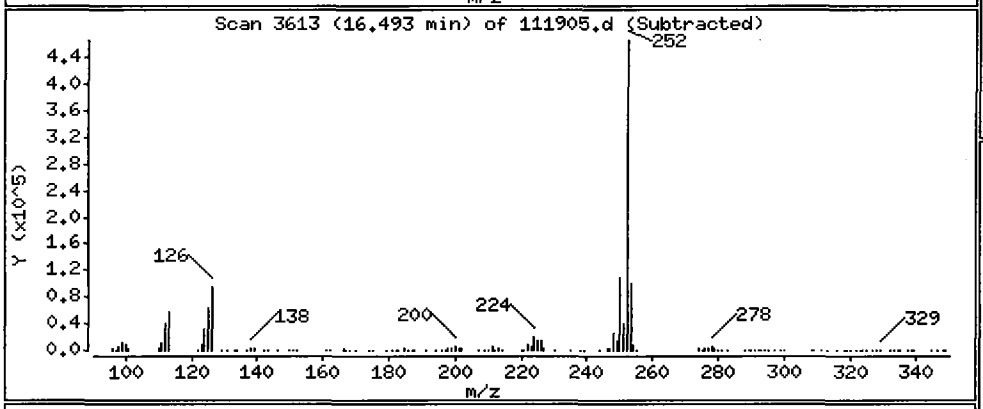
Column diameter: 0.25

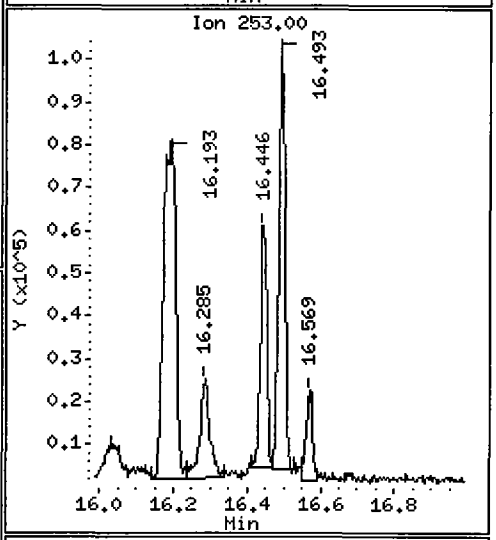
30 Benzo(a)pyrene

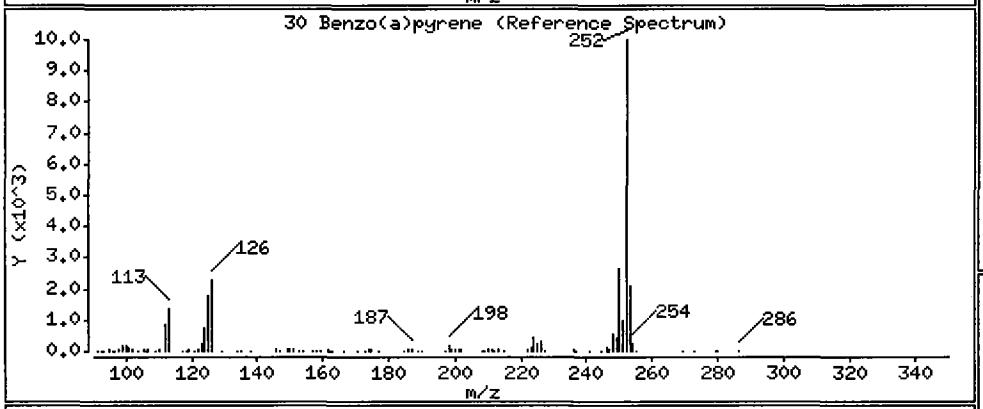
Concentration: 931.9 ug/kg

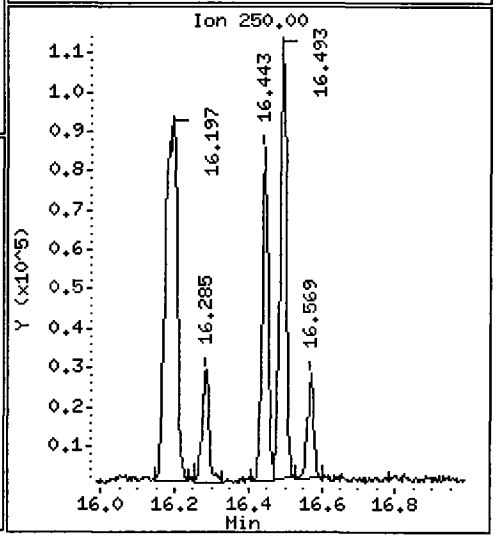


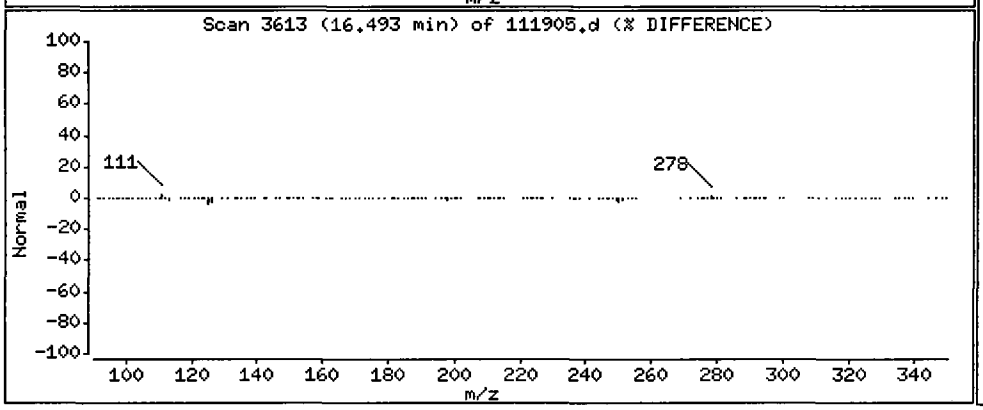












Data File: /chem3/nt2.i/20091119.b/111905.d

Date : 19-NOV-2009 14:13

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B,5

Volume Injected (uL): 1.0

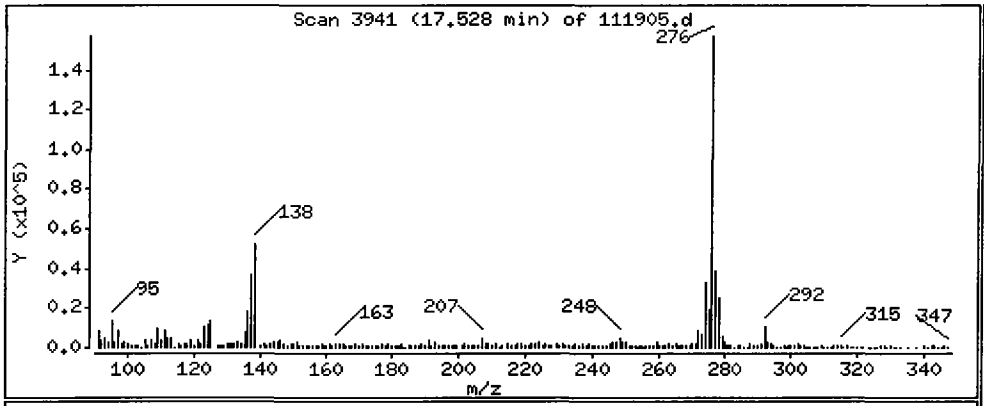
Operator: VTS

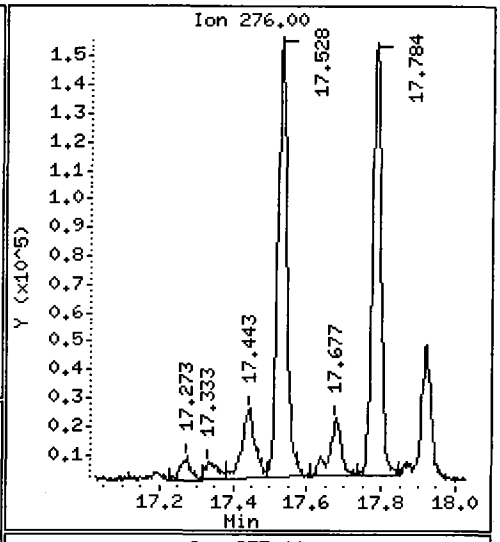
Column phase: ZB-5msi

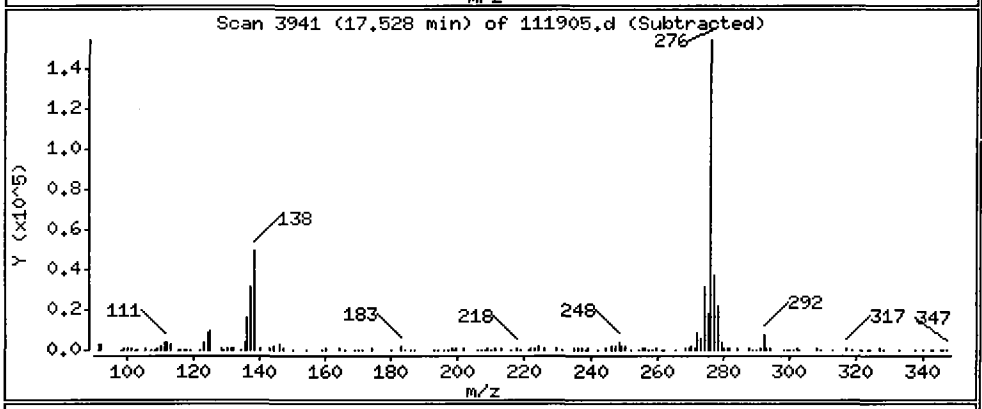
Column diameter: 0.25

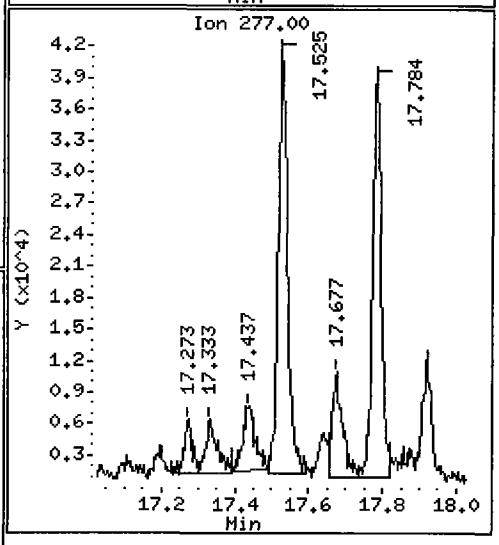
33 Indeno(1,2,3-cd)pyrene

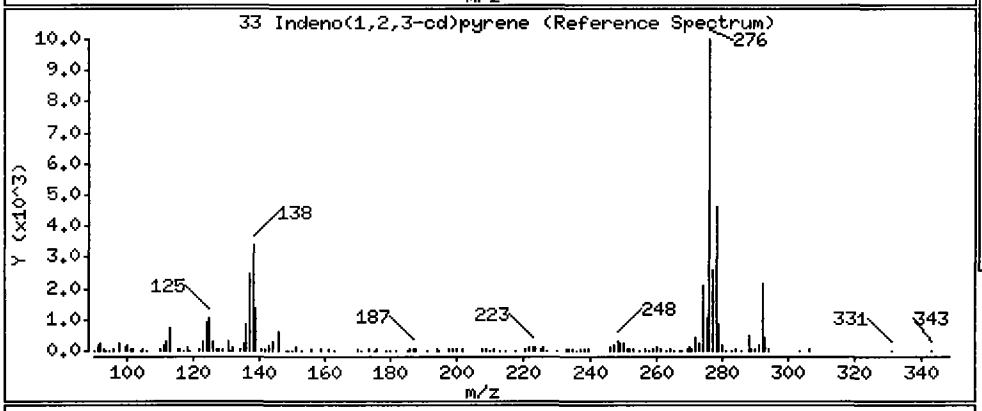
Concentration: 437.4 ug/kg

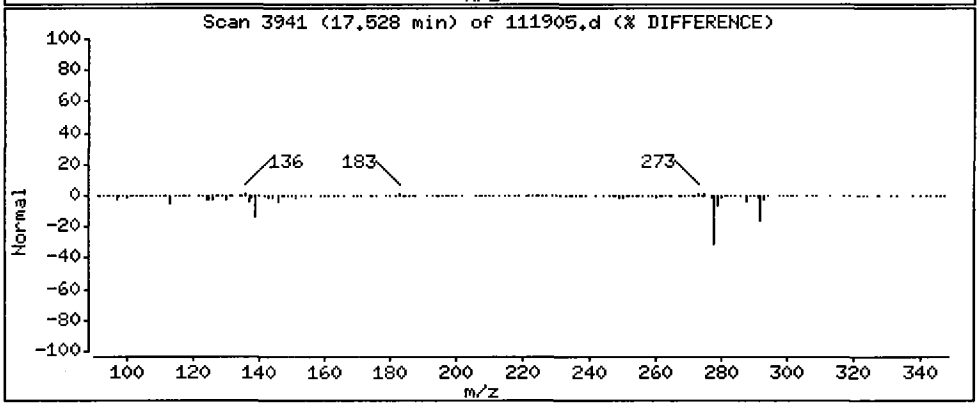












Data File: /chem3/nt2.i/20091119.b/111905.d

Date : 19-NOV-2009 14:13

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B,5

Volume Injected (uL): 1.0

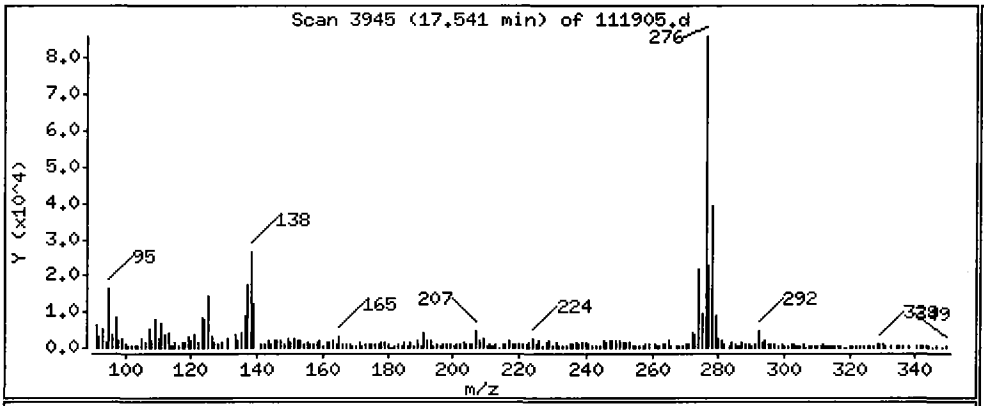
Operator: VTS

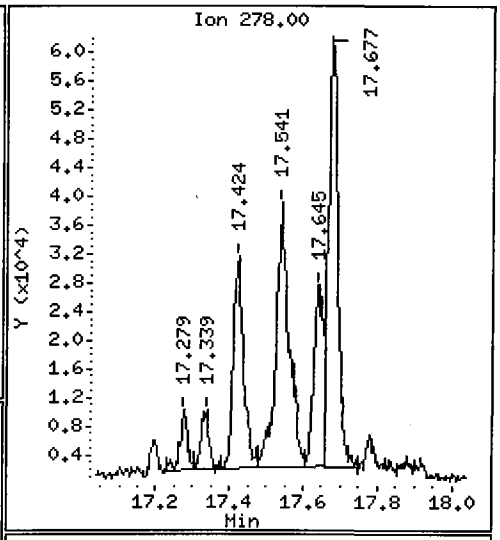
Column phase: ZB-5msi

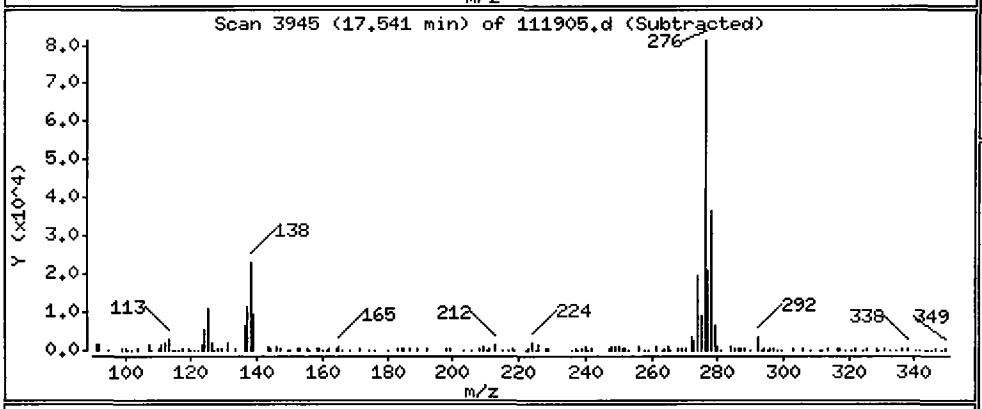
Column diameter: 0.25

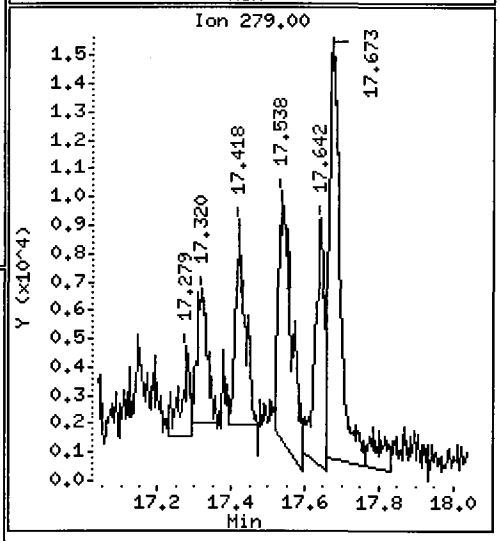
34 Dibenz(a,h)anthracene

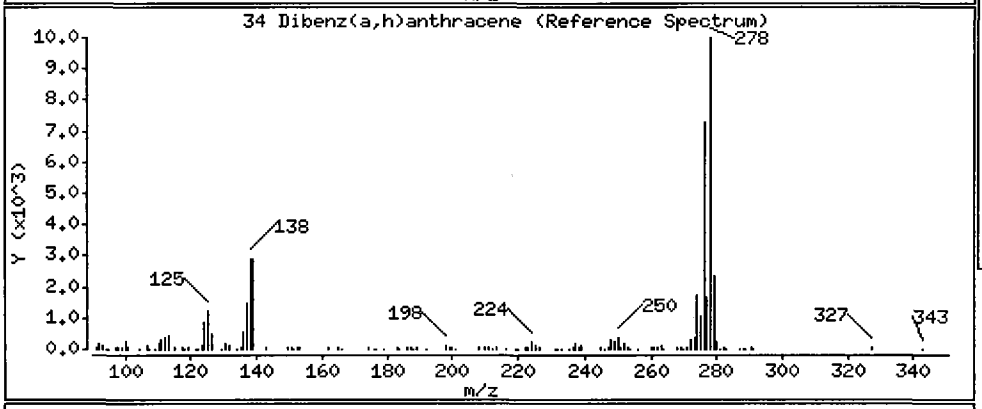
Concentration: 188.5 ug/kg

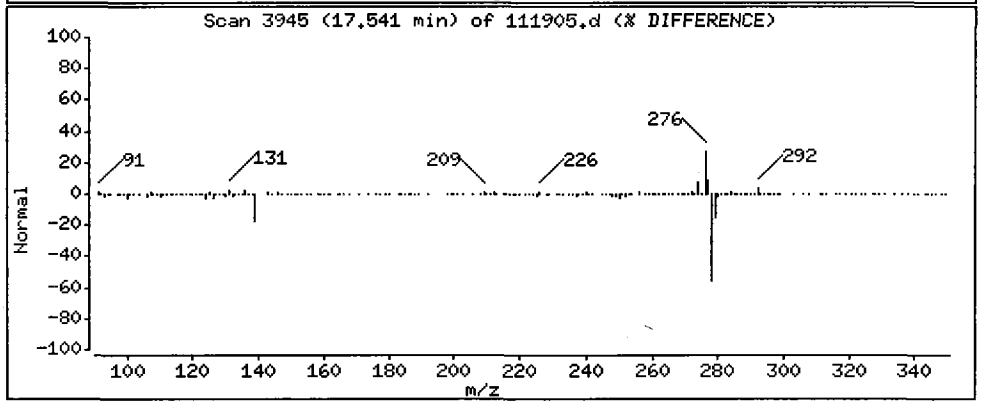












Data File: /chem3/nt2.i/20091119.b/111905.d

Date : 19-NOV-2009 14:13

Client ID: AHA-01-4NE(0-2)

Instrument: nt2.i

Sample Info: PX44B,5

Volume Injected (uL): 1.0

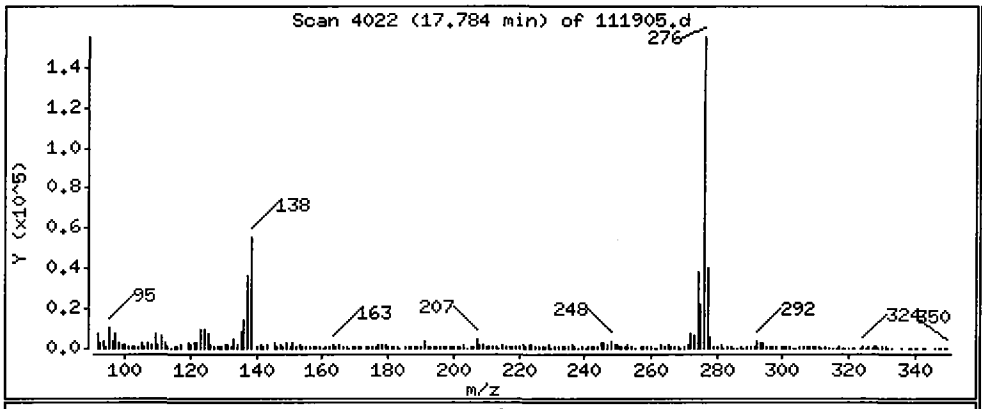
Operator: VTS

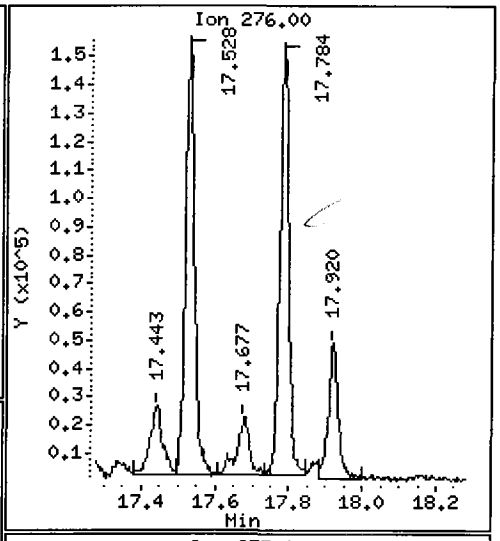
Column phase: ZB-5msi

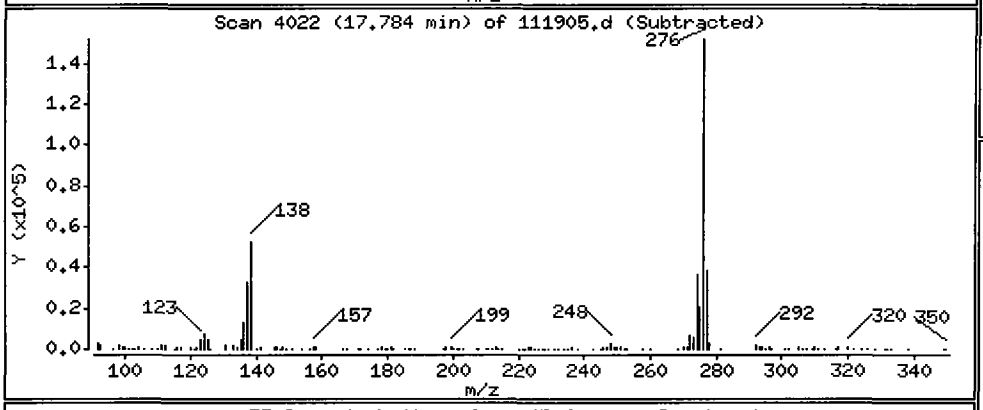
Column diameter: 0.25

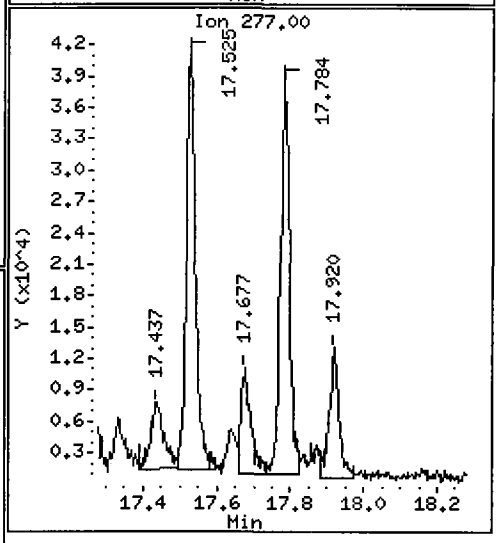
35 Benzo(g,h,i)perylene

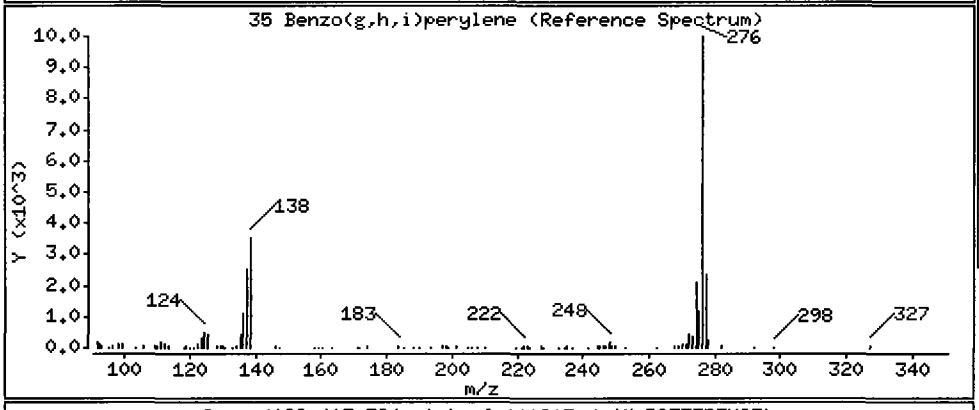
Concentration: 506.9 ug/kg

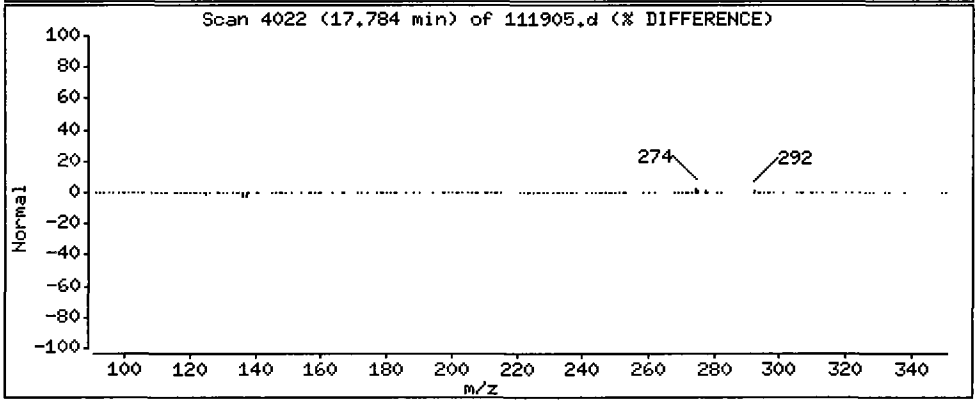












SIM Semivolatile Analysis
Standard Raw Data

prepared
for

Anchor QEA

Project: Eddon Boatyard

ARI JOB NO: PX44

prepared
by

Analytical Resources, Inc.

SEMIVOLATILE 8270-D INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR QEA

ARI Job No: PX44 Project: EDDON BOAT YARD

Instrument ID: NT2 Calibration Date: 11/02/09

LAB FILE ID: RRF0.1=IC110203 RRF0.5=IC110205 RRF1 =IC110206
RRF2.5=IC110201 RRF5 =IC110204 RRF10 =IC110202

COMPOUND	RRF 0.1	RRF 0.5	RRF 1	RRF 2.5	RRF 5	RRF 10	$\overline{RRF}$	%RSD /R^2
Naphthalene	1.043	1.001	1.020	0.998	0.955	0.944	0.994	3.8
2-Methylnaphthalene	0.624	0.590	0.609	0.600	0.574	0.570	0.594	3.5
Acenaphthylene	1.682	1.709	1.762	1.812	1.761	1.813	1.756	3.0
Acenaphthene	1.107	1.037	1.073	1.087	1.064	1.091	1.076	2.3
Dibenzofuran	1.472	1.454	1.474	1.471	1.433	1.466	1.462	1.1
Fluorene	1.114	1.177	1.235	1.237	1.207	1.262	1.205	4.4
Phenanthrene	1.237	1.143	1.133	1.147	1.104	1.133	1.150	4.0
Anthracene	1.130	1.090	1.119	1.170	1.135	1.179	1.137	2.9
Fluoranthene	1.178	1.140	1.187	1.213	1.177	1.244	1.190	3.0
Pyrene	1.287	1.284	1.300	1.305	1.252	1.314	1.290	1.7
Benzo(a)anthracene	1.175	1.155	1.151	1.190	1.127	1.186	1.164	2.1
Chrysene	1.180	1.177	1.153	1.139	1.114	1.158	1.154	2.1
Benzo(b)fluoranthene	1.174	1.135	1.358	1.089	1.137	1.227	1.187	8.1
Benzo(k)fluoranthene	1.267	1.317	1.412	1.369	1.302	1.292	1.326	4.1
Benzo(a)pyrene	1.019	0.890	1.003	1.026	1.009	1.055	1.000	5.7
Indeno(1,2,3-cd)pyrene	0.849	0.932	1.047	1.074	1.048	1.096	1.008	9.6
Dibenz(a,h)anthracene	0.653	0.689	0.794	0.852	0.814	0.883	0.781	11.7
Benzo(g,h,i)perylene	0.760	0.804	0.851	0.854	0.865	0.889	0.837	5.6
1-Methylnaphthalene	0.598	0.579	0.607	0.598	0.566	0.570	0.586	2.9
2-Methylnaphthalene-d10		0.546	0.563	0.544	0.511	0.511	0.535	4.3
Dibenz(a,h)anthrancene-d14		0.540	0.654	0.636	0.639	0.664	0.627	7.9

<- Outside QC limits: %RSD <20% or R^2 > 0.990

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-NOV-2009 16:36
End Cal Date : 02-NOV-2009 18:35
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt2.i/20091102.b/simpna.m
Cal Date : 03-Nov-2009 09:50 peter
Curve Type : Average

Calibration File Names:
Level 1: /chem3/nt2.i/20091102.b/ic110203.d
Level 2: /chem3/nt2.i/20091102.b/ic110205.d
Level 3: /chem3/nt2.i/20091102.b/ic110206.d
Level 4: /chem3/nt2.i/20091102.b/ic110201.d
Level 5: /chem3/nt2.i/20091102.b/ic110204.d
Level 6: /chem3/nt2.i/20091102.b/ic110202.d

Compound	0.10000 Level 1	0.50000 Level 2	1.000 Level 3	2.500 Level 4	5.000 Level 5	10.000 Level 6	___ RRF	% RSD
53 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 2,3,5-Trimethylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 2,6-Dimethylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Naphthalene	1.04270	1.00081	1.01968	0.99838	0.95463	0.94419	0.99340	3.800
4 2-Methylnaphthalene	0.62351	0.59060	0.60904	0.60051	0.57350	0.57020	0.59456	3.476
5 1-Methylnaphthalene	0.59762	0.57943	0.60670	0.59759	0.56556	0.57031	0.58620	2.860
6 Dimethylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 Acenaphthylene	1.68223	1.70931	1.76160	1.81167	1.76073	1.81318	1.75645	3.017
9 Acenaphthene	1.10726	1.03670	1.07299	1.08749	1.06361	1.09060	1.07644	2.286
10 Dibenzofuran	1.47235	1.45441	1.47382	1.47086	1.43268	1.46624	1.46173	1.086
11 Fluorene	1.11354	1.17680	1.23467	1.23700	1.20712	1.26236	1.20525	4.446
12 Diethylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Pentachlorophenol(ester)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 Phenanthrene	1.23683	1.14284	1.13308	1.14679	1.10373	1.13313	1.14940	3.951
17 Anthracene	1.13020	1.09018	1.11878	1.17022	1.13478	1.17928	1.13724	2.907
18 Di-n-butylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Fluoranthene	1.17752	1.13960	1.18679	1.21311	1.17736	1.24373	1.18968	2.980
20 Pyrene	1.28695	1.28454	1.29991	1.30495	1.25172	1.31393	1.29033	1.697

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-NOV-2009 16:36
End Cal Date : 02-NOV-2009 18:35
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt2.i/20091102.b/simpna.m
Cal Date : 03-Nov-2009 09:50 peter
Curve Type : Average

	Compound	0.10000 Level 1	0.50000 Level 2	1.000 Level 3	2.500 Level 4	5.000 Level 5	10.000 Level 6	___ RRF	% RSD
	21 Butylbenzylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	22 Benzo(a)anthracene	1.17512	1.15470	1.15142	1.18992	1.12745	1.18576	1.16406	2.051
	24 Chrysene	1.18060	1.17739	1.15323	1.13896	1.11453	1.15830	1.15383	2.143
	25 Bis-2-Ethylhexylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	26 Di-n-octylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	28 Benzo(b)fluoranthene	1.17435	1.13486	1.35771	1.08915	1.13716	1.22701	1.18671	8.055
	29 Benzo(k)fluoranthene	1.26661	1.31749	1.41239	1.36913	1.30251	1.29152	1.32661	4.082
	30 Benzo(a)pyrene	1.01913	0.88951	1.00287	1.02577	1.00924	1.05519	1.00029	5.722
	33 Indeno(1,2,3-cd)pyrene	0.84914	0.93234	1.04692	1.07433	1.04851	1.09643	1.00794	9.551
	34 Dibenz(a,h)anthracene	0.65288	0.68874	0.79400	0.85215	0.81391	0.88299	0.78078	11.688
	35 Benzo(g,h,i)perylene	0.76027	0.80373	0.85077	0.85404	0.86478	0.88888	0.83708	5.587
$	3 2-Methylnaphthalene-d10	+++++	0.54588	0.56263	0.54407	0.51133	0.51109	0.53500	4.279
$	13 2,4,6-Tribromophenol(ester)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$	32 Dibenz(a,h)anthrancene-d14	+++++	0.54056	0.65368	0.63614	0.63871	0.66377	0.62657	7.881

Analytical Resources, Inc.

METHOD SW8270D-SIM

Data file : /chem3/nt2.i/20091102.b/ic110201.d
Lab Smp Id: PNA 2.5
Inj Date : 02-NOV-2009 16:36
Operator : VTS Inst ID: nt2.i
Smp Info : PNA 2.5
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt2.i/20091102.b/simpna.m
Meth Date : 03-Nov-2009 09:47 peter Quant Type: ISTD
Cal Date : 02-NOV-2009 18:35 Cal File: ic110206.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	5.982	5.983	(1.000)	353094	2.00000	
	2 Naphthalene	128	6.014	6.015	(1.005)	440652	2.50000	2.513
$	3 2-Methylnaphthalene-d10	152	7.043	7.040	(1.177)	240135	2.50000	2.542
	4 2-Methylnaphthalene	142	7.090	7.091	(1.185)	265045	2.50000	2.525
	5 1-Methylnaphthalene	142	7.257	7.258	(1.213)	263757	2.50000	2.549
	7 Acenaphthylene	152	8.516	8.517	(0.971)	391209	2.50000	2.579
*	8 Acenaphthene-d10	164	8.769	8.766	(1.000)	172751	2.00000	
	9 Acenaphthene	153	8.816	8.817	(1.005)	234832	2.50000	2.526
	10 Dibenzofuran	168	9.075	9.072	(1.035)	317616	2.50000	2.516
	11 Fluorene	166	9.627	9.628	(1.098)	267116	2.50000	2.566
*	15 Phenanthrene-d10	188	11.120	11.117	(1.000)	254451	2.00000	
	16 Phenanthrene	178	11.154	11.155	(1.003)	364753	2.50000	2.494
	17 Anthracene	178	11.230	11.227	(1.010)	372206	2.50000	2.573
	19 Fluoranthene	202	13.073	13.070	(1.176)	385845	2.50000	2.549
	20 Pyrene	202	13.404	13.405	(0.886)	388886	2.50000	2.528
	22 Benzo(a)anthracene	228	15.111	15.109	(0.999)	354608	2.50000	2.556
*	23 Chrysene-d12	240	15.133	15.128	(1.000)	238407	2.00000	
	24 Chrysene	228	15.162	15.162	(1.002)	339420	2.50000	2.468
	28 Benzo(b)fluoranthene	252	16.354	16.352	(0.978)	281957	2.50000	2.294
	29 Benzo(k)fluoranthene	252	16.377	16.374	(0.979)	354437	2.50000	2.580
	30 Benzo(a)pyrene	252	16.664	16.661	(0.997)	265549	2.50000	2.564
*	31 Perylene-d12	264	16.720	16.718	(1.000)	207102	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.743	17.737	(1.061)	278120	2.50000	2.665
$	32 Dibenz(a,h)anthrancene-d14	292	17.721	17.718	(1.060)	164682	2.50000	2.538
	34 Dibenz(a,h)anthracene	278	17.755	17.750	(1.062)	220603	2.50000	2.729
	35 Benzo(g,h,i)perylene	276	18.011	18.009	(1.077)	221092	2.50000	2.551

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic110201.d
Lab Smp Id: PNA 2.5
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20091102.b/simpna.m
Misc Info:

Calibration Date: 02-NOV-2009
Calibration Time: 16:36

Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	353094	176547	706188	353094	0.00
8 Acenaphthene-d10	172751	86376	345502	172751	0.00
15 Phenanthrene-d10	254451	127226	508902	254451	0.00
23 Chrysene-d12	238407	119204	476814	238407	0.00
31 Perylene-d12	207102	103551	414204	207102	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	5.98	5.48	6.48	5.98	0.00
8 Acenaphthene-d10	8.77	8.27	9.27	8.77	0.00
15 Phenanthrene-d10	11.12	10.62	11.62	11.12	0.00
23 Chrysene-d12	15.13	14.63	15.63	15.13	0.00
31 Perylene-d12	16.72	16.22	17.22	16.72	0.00

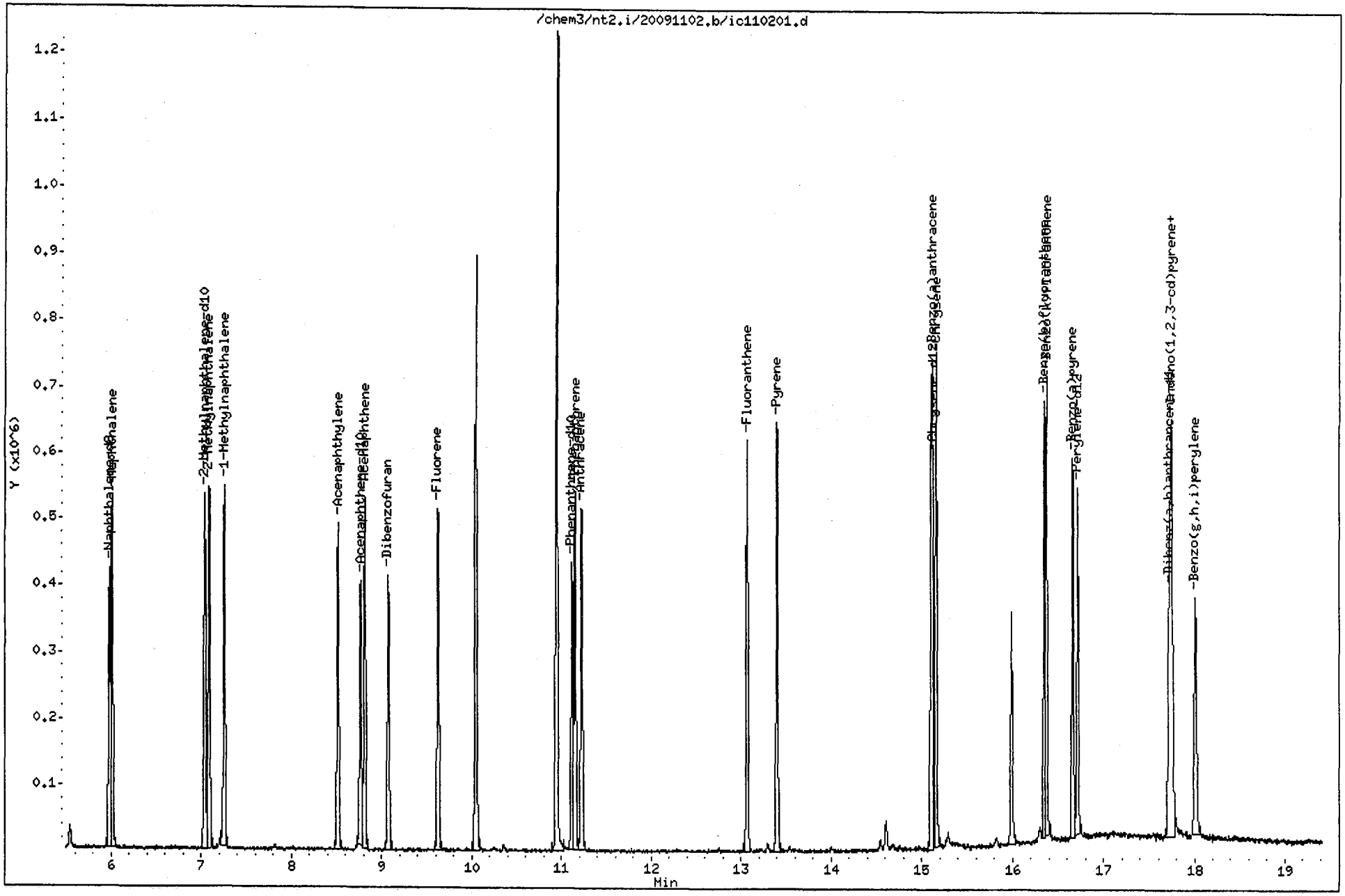
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20091102.b/ic110201.d
Date : 02-NOV-2009 16:36
Client ID:
Sample Info: PNA 2.5

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



Analytical Resources, Inc.

METHOD SW8270D-SIM

Data file : /chem3/nt2.i/20091102.b/ic110202.d
Lab Smp Id: PNA 10
Inj Date : 02-NOV-2009 17:00
Operator : VTS Inst ID: nt2.i
Smp Info : PNA 10
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt2.i/20091102.b/simpna.m
Meth Date : 03-Nov-2009 09:47 peter Quant Type: ISTD
Cal Date : 02-NOV-2009 18:35 Cal File: ic110206.d
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	5.985	5.983	(1.000)	309248	2.00000	
	2 Naphthalene	128	6.017	6.015	(1.005)	1459945	10.0000	9.505
$	3 2-Methylnaphthalene-d10	152	7.046	7.040	(1.177)	790269	10.0000	9.553
	4 2-Methylnaphthalene	142	7.096	7.091	(1.186)	881668	10.0000	9.590
	5 1-Methylnaphthalene	142	7.263	7.258	(1.214)	881829	10.0000	9.729
	7 Acenaphthylene	152	8.519	8.517	(0.972)	1299815	10.0000	10.32
*	8 Acenaphthene-d10	164	8.768	8.766	(1.000)	143374	2.00000	
	9 Acenaphthene	153	8.819	8.817	(1.006)	781822	10.0000	10.13
	10 Dibenzofuran	168	9.081	9.072	(1.036)	1051103	10.0000	10.03
	11 Fluorene	166	9.630	9.628	(1.098)	904945	10.0000	10.47
*	15 Phenanthrene-d10	188	11.122	11.117	(1.000)	211995	2.00000	
	16 Phenanthrene	178	11.160	11.155	(1.003)	1201090	10.0000	9.858
	17 Anthracene	178	11.230	11.227	(1.010)	1250004	10.0000	10.37
	19 Fluoranthene	202	13.076	13.070	(1.176)	1318320	10.0000	10.45
	20 Pyrene	202	13.407	13.405	(0.886)	1357481	10.0000	10.18
	22 Benzo(a)anthracene	228	15.114	15.109	(0.999)	1225058	10.0000	10.19
*	23 Chrysene-d12	240	15.133	15.128	(1.000)	206629	2.00000	
	24 Chrysene	228	15.168	15.162	(1.002)	1196688	10.0000	10.04
	28 Benzo(b)fluoranthene	252	16.357	16.352	(0.978)	1071116	10.0000	10.34
	29 Benzo(k)fluoranthene	252	16.379	16.374	(0.980)	1127423	10.0000	9.735
	30 Benzo(a)pyrene	252	16.667	16.661	(0.997)	921124	10.0000	10.55
*	31 Perylene-d12	264	16.720	16.718	(1.000)	174589	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.752	17.737	(1.062)	957124	10.0000	10.88
$	32 Dibenz(a,h)anthrancene-d14	292	17.730	17.718	(1.060)	579437	10.0000	10.59
	34 Dibenz(a,h)anthracene	278	17.762	17.750	(1.062)	770799	10.0000	11.31
	35 Benzo(g,h,i)perylene	276	18.020	18.009	(1.078)	775946	10.0000	10.62

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic110202.d
Lab Smp Id: PNA 10
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20091102.b/simpna.m
Misc Info:

Calibration Date: 02-NOV-2009
Calibration Time: 16:36

Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	353094	176547	706188	309248	-12.42
8 Acenaphthene-d10	172751	86376	345502	143374	-17.01
15 Phenanthrene-d10	254451	127226	508902	211995	-16.69
23 Chrysene-d12	238407	119204	476814	206629	-13.33
31 Perylene-d12	207102	103551	414204	174589	-15.70

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	5.98	5.48	6.48	5.99	0.05
8 Acenaphthene-d10	8.77	8.27	9.27	8.77	0.00
15 Phenanthrene-d10	11.12	10.62	11.62	11.12	0.03
23 Chrysene-d12	15.13	14.63	15.63	15.13	0.00
31 Perylene-d12	16.72	16.22	17.22	16.72	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20091102.b/ic110202.d
Date : 02-NOV-2009 17:00
Client ID:
Sample Info: PNA 10

Column phase: ZB-5msi

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25

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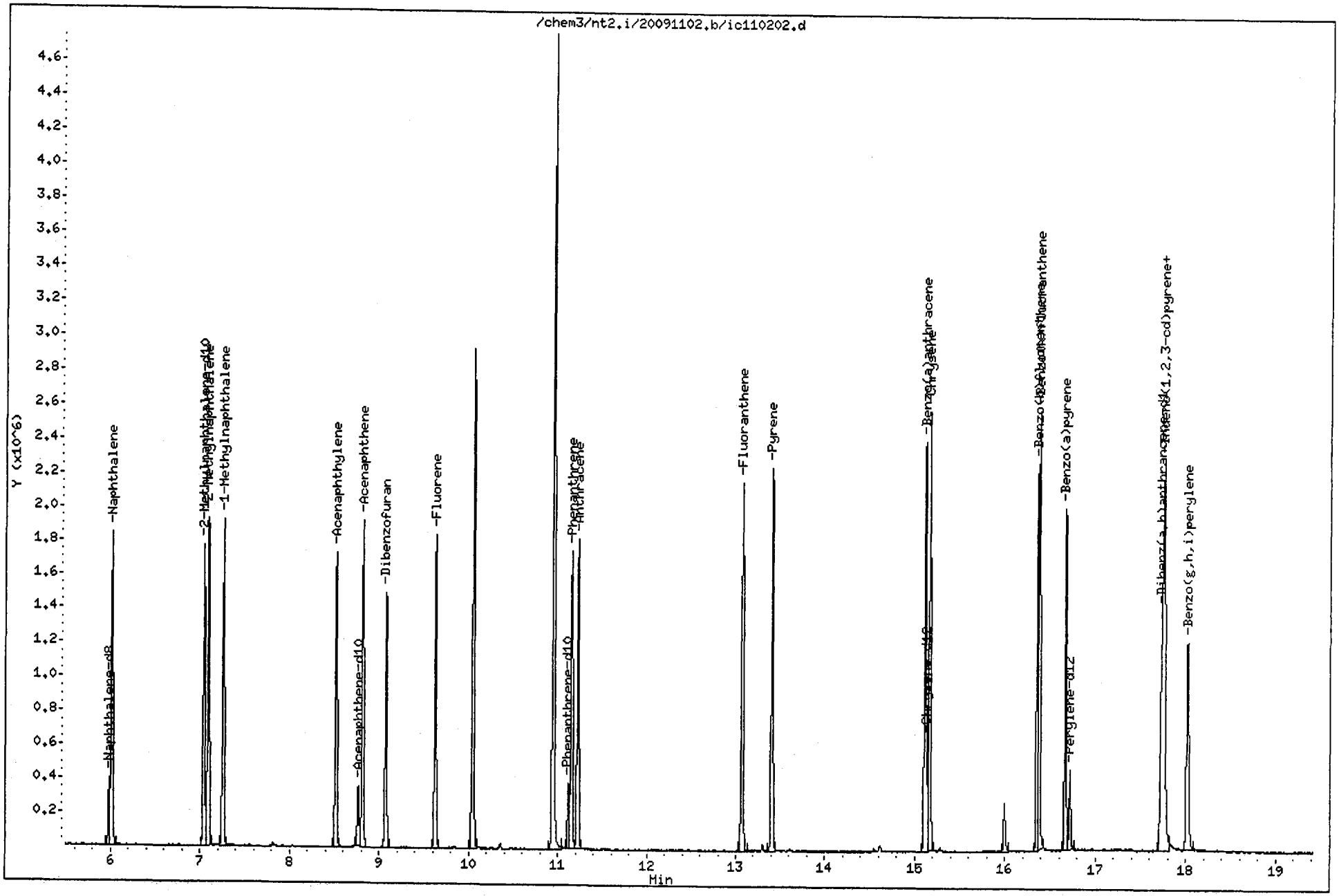


Analytical Resources, Inc.

METHOD SW8270D-SIM

Data file : /chem3/nt2.i/20091102.b/ic110203.d
Lab Smp Id: PNA 0.1
Inj Date : 02-NOV-2009 17:24
Operator : VTS Inst ID: nt2.i
Smp Info : PNA 0.1
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt2.i/20091102.b/simpna.m
Meth Date : 03-Nov-2009 09:47 peter Quant Type: ISTD
Cal Date : 02-NOV-2009 18:35 Cal File: ic110206.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	5.982	5.983	(1.000)	282017	2.00000	
	2 Naphthalene	128	6.011	6.015	(1.005)	14703	0.10000	0.1050
$	3 2-Methylnaphthalene-d10	152	7.043	7.040	(1.177)	9081	0.10000	0.1204
	4 2-Methylnaphthalene	142	7.093	7.091	(1.186)	8792	0.10000	0.1049
	5 1-Methylnaphthalene	142	7.254	7.258	(1.213)	8427	0.10000	0.1019
	7 Acenaphthylene	152	8.522	8.517	(0.973)	12063	0.10000	0.09577
*	8 Acenaphthene-d10	164	8.762	8.766	(1.000)	143417	2.00000	
	9 Acenaphthene	153	8.816	8.817	(1.006)	7940	0.10000	0.1029
	10 Dibenzofuran	168	9.072	9.072	(1.035)	10558	0.10000	0.1007
	11 Fluorene	166	9.624	9.628	(1.098)	7985	0.10000	0.09239
*	15 Phenanthrene-d10	188	11.119	11.117	(1.000)	208388	2.00000	
	16 Phenanthrene	178	11.154	11.155	(1.003)	12887	0.10000	0.1076
	17 Anthracene	178	11.227	11.227	(1.010)	11776	0.10000	0.09938
	19 Fluoranthene	202	13.070	13.070	(1.175)	12269	0.10000	0.09898
	20 Pyrene	202	13.398	13.405	(0.886)	12694	0.10000	0.09974
	22 Benzo(a)anthracene	228	15.105	15.109	(0.999)	11591	0.10000	0.1010
*	23 Chrysene-d12	240	15.127	15.128	(1.000)	197273	2.00000	
	24 Chrysene	228	15.162	15.162	(1.002)	11645	0.10000	0.1023
	28 Benzo(b)fluoranthene	252	16.351	16.352	(0.978)	10017	0.10000	0.09896
	29 Benzo(k)fluoranthene	252	16.373	16.374	(0.979)	10804	0.10000	0.09548
	30 Benzo(a)pyrene	252	16.660	16.661	(0.997)	8693	0.10000	0.1019
*	31 Perylene-d12	264	16.717	16.718	(1.000)	170597	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.733	17.737	(1.061)	7243	0.10000	0.08424
$	32 Dibenz(a,h)anthrancene-d14	292	17.724	17.718	(1.060)	4639	0.10000	0.08680
	34 Dibenz(a,h)anthracene	278	17.746	17.750	(1.062)	5569	0.10000	0.08362
	35 Benzo(g,h,i)perylene	276	18.008	18.009	(1.077)	6485	0.10000	0.09082

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic110203.d
Lab Smp Id: PNA 0.1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20091102.b/simpna.m
Misc Info:

Calibration Date: 02-NOV-2009
Calibration Time: 16:36

Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	353094	176547	706188	282017	-20.13
8 Acenaphthene-d10	172751	86376	345502	143417	-16.98
15 Phenanthrene-d10	254451	127226	508902	208388	-18.10
23 Chrysene-d12	238407	119204	476814	197273	-17.25
31 Perylene-d12	207102	103551	414204	170597	-17.63

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	5.98	5.48	6.48	5.98	0.00
8 Acenaphthene-d10	8.77	8.27	9.27	8.76	-0.07
15 Phenanthrene-d10	11.12	10.62	11.62	11.12	0.00
23 Chrysene-d12	15.13	14.63	15.63	15.13	-0.04
31 Perylene-d12	16.72	16.22	17.22	16.72	-0.02

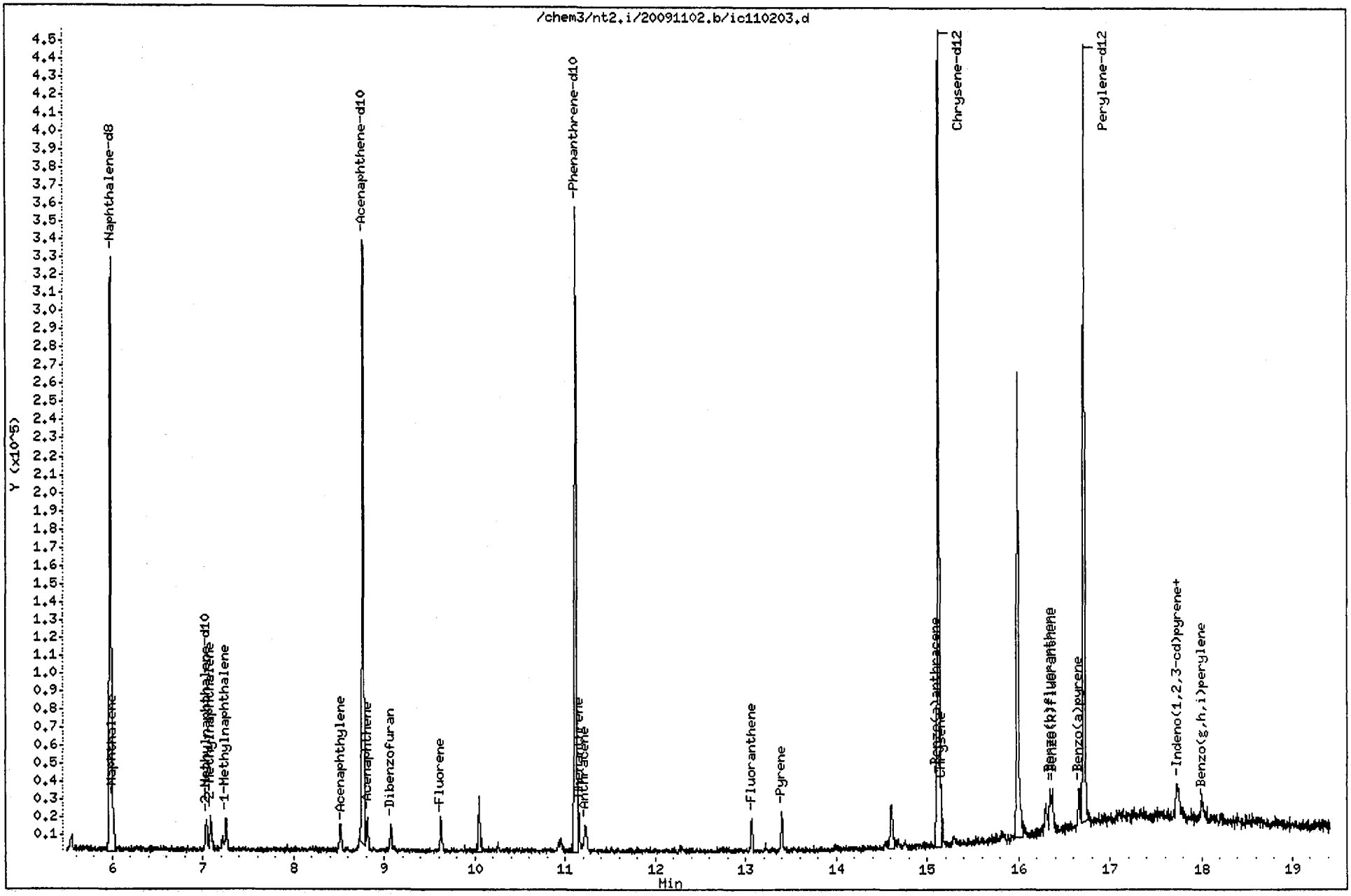
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20091102.b/ic110203.d
Date : 02-NOV-2009 17:24
Client ID:
Sample Info: PNA 0.1

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



Analytical Resources, Inc.

METHOD SW8270D-SIM

Data file : /chem3/nt2.i/20091102.b/ic110204.d
Lab Smp Id: PNA 5
Inj Date : 02-NOV-2009 17:48
Operator : VTS Inst ID: nt2.i
Smp Info : PNA 5
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt2.i/20091102.b/simpna.m
Meth Date : 03-Nov-2009 09:47 peter Quant Type: ISTD
Cal Date : 02-NOV-2009 18:35 Cal File: ic110206.d
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	5.984	5.983	(1.000)	317291	2.00000	
	2 Naphthalene	128	6.016	6.015	(1.005)	757238	5.00000	4.805
$	3 2-Methylnaphthalene-d10	152	7.044	7.040	(1.177)	405599	5.00000	4.779
	4 2-Methylnaphthalene	142	7.092	7.091	(1.185)	454918	5.00000	4.823
	5 1-Methylnaphthalene	142	7.259	7.258	(1.213)	448615	5.00000	4.824
	7 Acenaphthylene	152	8.518	8.517	(0.972)	666622	5.00000	5.012
*	8 Acenaphthene-d10	164	8.764	8.766	(1.000)	151442	2.00000	
	9 Acenaphthene	153	8.818	8.817	(1.006)	402687	5.00000	4.940
	10 Dibenzofuran	168	9.076	9.072	(1.036)	542419	5.00000	4.901
	11 Fluorene	166	9.629	9.628	(1.099)	457020	5.00000	5.008
*	15 Phenanthrene-d10	188	11.121	11.117	(1.000)	226694	2.00000	
	16 Phenanthrene	178	11.156	11.155	(1.003)	625521	5.00000	4.801
	17 Anthracene	178	11.228	11.227	(1.010)	643117	5.00000	4.989
	19 Fluoranthene	202	13.071	13.070	(1.175)	667252	5.00000	4.948
	20 Pyrene	202	13.406	13.405	(0.886)	684426	5.00000	4.850
	22 Benzo(a)anthracene	228	15.110	15.109	(0.999)	616478	5.00000	4.843
*	23 Chrysene-d12	240	15.132	15.128	(1.000)	218715	2.00000	
	24 Chrysene	228	15.163	15.162	(1.002)	609412	5.00000	4.830
	28 Benzo(b)fluoranthene	252	16.353	16.352	(0.978)	528150	5.00000	4.791
	29 Benzo(k)fluoranthene	252	16.375	16.374	(0.979)	604947	5.00000	4.909
	30 Benzo(a)pyrene	252	16.665	16.661	(0.997)	468737	5.00000	5.045
*	31 Perylene-d12	264	16.719	16.718	(1.000)	185779	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.741	17.737	(1.061)	486977	5.00000	5.201
$	32 Dibenz(a,h)anthrancene-d14	292	17.722	17.718	(1.060)	296646	5.00000	5.097
	34 Dibenz(a,h)anthracene	278	17.754	17.750	(1.062)	378019	5.00000	5.212
	35 Benzo(g,h,i)perylene	276	18.013	18.009	(1.077)	401645	5.00000	5.165

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic110204.d
Lab Smp Id: PNA 5
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20091102.b/simpna.m
Misc Info:

Calibration Date: 02-NOV-2009
Calibration Time: 16:36

Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	353094	176547	706188	317291	-10.14
8 Acenaphthene-d10	172751	86376	345502	151442	-12.34
15 Phenanthrene-d10	254451	127226	508902	226694	-10.91
23 Chrysene-d12	238407	119204	476814	218715	-8.26
31 Perylene-d12	207102	103551	414204	185779	-10.30

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	5.98	5.48	6.48	5.98	0.03
8 Acenaphthene-d10	8.77	8.27	9.27	8.76	-0.05
15 Phenanthrene-d10	11.12	10.62	11.62	11.12	0.01
23 Chrysene-d12	15.13	14.63	15.63	15.13	-0.01
31 Perylene-d12	16.72	16.22	17.22	16.72	-0.01

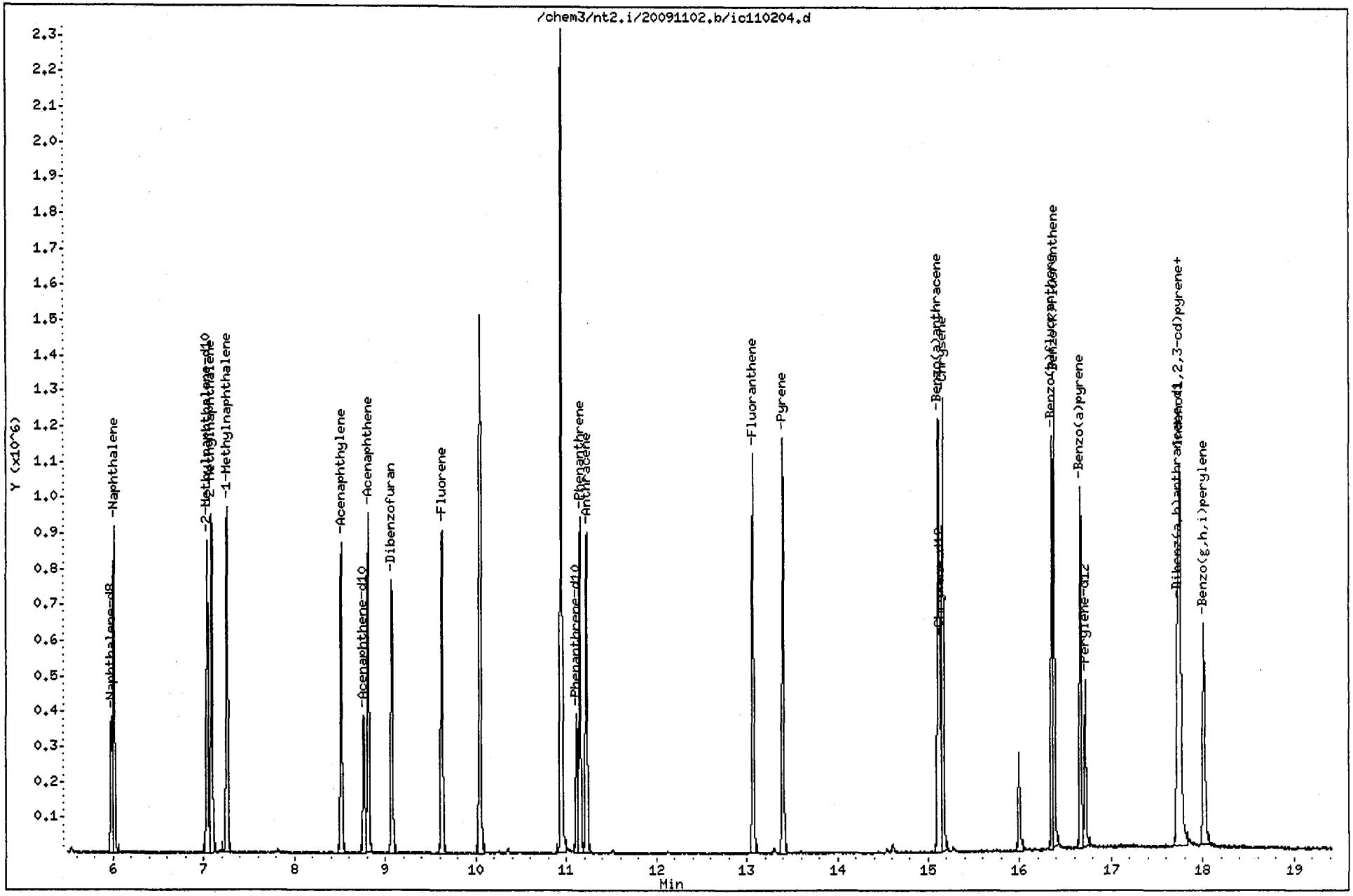
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20091102.b/ic110204.d
Date : 02-NOV-2009 17:48
Client ID:
Sample Info: PNA 5

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



PX44:00152

Analytical Resources, Inc.

METHOD SW8270D-SIM

Data file : /chem3/nt2.i/20091102.b/ic110205.d
Lab Smp Id: PNA 0.5
Inj Date : 02-NOV-2009 18:12
Operator : VTS Inst ID: nt2.i
Smp Info : PNA 0.5
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt2.i/20091102.b/simpna.m
Meth Date : 03-Nov-2009 09:47 peter Quant Type: ISTD
Cal Date : 02-NOV-2009 18:35 Cal File: ic110206.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	5.981	5.983	(1.000)	290092	2.00000	
	2 Naphthalene	128	6.010	6.015	(1.005)	72582	0.50000	0.5037
$	3 2-Methylnaphthalene-d10	152	7.042	7.040	(1.177)	39589	0.50000	0.5102
	4 2-Methylnaphthalene	142	7.089	7.091	(1.185)	42832	0.50000	0.4967
	5 1-Methylnaphthalene	142	7.256	7.258	(1.213)	42022	0.50000	0.4942
	7 Acenaphthylene	152	8.518	8.517	(0.972)	61942	0.50000	0.4866
*	8 Acenaphthene-d10	164	8.768	8.766	(1.000)	144952	2.00000	
	9 Acenaphthene	153	8.815	8.817	(1.005)	37568	0.50000	0.4815
	10 Dibenzofuran	168	9.077	9.072	(1.035)	52705	0.50000	0.4975
	11 Fluorene	166	9.626	9.628	(1.098)	42645	0.50000	0.4882
*	15 Phenanthrene-d10	188	11.118	11.117	(1.000)	211179	2.00000	
	16 Phenanthrene	178	11.153	11.155	(1.003)	60336	0.50000	0.4971
	17 Anthracene	178	11.229	11.227	(1.010)	57556	0.50000	0.4793
	19 Fluoranthene	202	13.069	13.070	(1.175)	60165	0.50000	0.4790
	20 Pyrene	202	13.403	13.405	(0.886)	63249	0.50000	0.4978
	22 Benzo(a)anthracene	228	15.107	15.109	(0.999)	56856	0.50000	0.4960
*	23 Chrysene-d12	240	15.126	15.128	(1.000)	196955	2.00000	
	24 Chrysene	228	15.161	15.162	(1.002)	57973	0.50000	0.5102
	28 Benzo(b)fluoranthene	252	16.347	16.352	(0.978)	50631	0.50000	0.4782
	29 Benzo(k)fluoranthene	252	16.369	16.374	(0.979)	58779	0.50000	0.4966
	30 Benzo(a)pyrene	252	16.663	16.661	(0.997)	39685	0.50000	0.4446
*	31 Perylene-d12	264	16.716	16.718	(1.000)	178458	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.735	17.737	(1.061)	41596	0.50000	0.4625
$	32 Dibenz(a,h)anthrancene-d14	292	17.717	17.718	(1.060)	24117	0.50000	0.4314
	34 Dibenz(a,h)anthracene	278	17.751	17.750	(1.062)	30728	0.50000	0.4411
	35 Benzo(g,h,i)perylene	276	18.004	18.009	(1.077)	35858	0.50000	0.4801

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic110205.d
Lab Smp Id: PNA 0.5
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20091102.b/simpna.m
Misc Info:

Calibration Date: 02-NOV-2009
Calibration Time: 16:36

Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	353094	176547	706188	290092	-17.84
8 Acenaphthene-d10	172751	86376	345502	144952	-16.09
15 Phenanthrene-d10	254451	127226	508902	211179	-17.01
23 Chrysene-d12	238407	119204	476814	196955	-17.39
31 Perylene-d12	207102	103551	414204	178458	-13.83

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	5.98	5.48	6.48	5.98	-0.02
8 Acenaphthene-d10	8.77	8.27	9.27	8.77	-0.01
15 Phenanthrene-d10	11.12	10.62	11.62	11.12	-0.01
23 Chrysene-d12	15.13	14.63	15.63	15.13	-0.05
31 Perylene-d12	16.72	16.22	17.22	16.72	-0.03

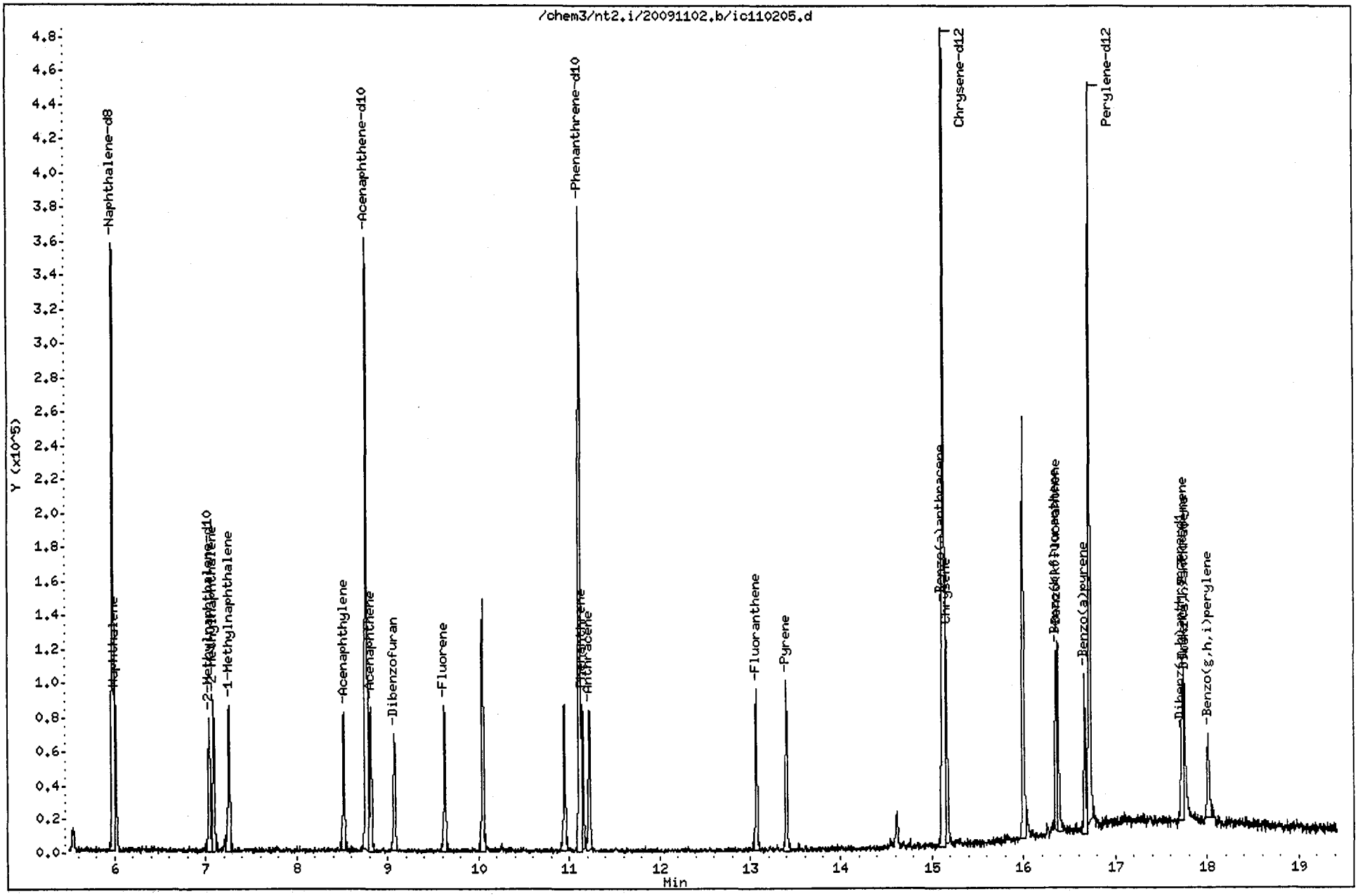
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20091102.b/ic110205.d
Date : 02-NOV-2009 18:12
Client ID:
Sample Info: PNA 0.5

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



Analytical Resources, Inc.

METHOD SW8270D-SIM

Data file : /chem3/nt2.i/20091102.b/ic110206.d
Lab Smp Id: PNA 1
Inj Date : 02-NOV-2009 18:35
Operator : VTS Inst ID: nt2.i
Smp Info : PNA 1
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt2.i/20091102.b/simpna.m
Meth Date : 03-Nov-2009 09:47 peter Quant Type: ISTD
Cal Date : 02-NOV-2009 18:35 Cal File: ic110206.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	5.983	5.983	(1.000)	300127	2.00000	
	2 Naphthalene	128	6.015	6.015	(1.005)	153017	1.00000	1.026
$	3 2-Methylnaphthalene-d10	152	7.040	7.040	(1.177)	84430	1.00000	1.052
	4 2-Methylnaphthalene	142	7.091	7.091	(1.185)	91394	1.00000	1.024
	5 1-Methylnaphthalene	142	7.258	7.258	(1.213)	91043	1.00000	1.035
	7 Acenaphthylene	152	8.517	8.517	(0.972)	132476	1.00000	1.003
*	8 Acenaphthene-d10	164	8.766	8.766	(1.000)	150404	2.00000	
	9 Acenaphthene	153	8.817	8.817	(1.006)	80691	1.00000	0.9968
	10 Dibenzofuran	168	9.072	9.072	(1.035)	110834	1.00000	1.008
	11 Fluorene	166	9.628	9.628	(1.098)	92850	1.00000	1.024
*	15 Phenanthrene-d10	188	11.117	11.117	(1.000)	221090	2.00000	
	16 Phenanthrene	178	11.155	11.155	(1.003)	125256	1.00000	0.9858
	17 Anthracene	178	11.227	11.227	(1.010)	123676	1.00000	0.9838
	19 Fluoranthene	202	13.070	13.070	(1.176)	131194	1.00000	0.9976
	20 Pyrene	202	13.405	13.405	(0.886)	134868	1.00000	1.007
	22 Benzo(a)anthracene	228	15.109	15.109	(0.999)	119462	1.00000	0.9891
*	23 Chrysene-d12	240	15.128	15.128	(1.000)	207503	2.00000	
	24 Chrysene	228	15.162	15.162	(1.002)	119649	1.00000	0.9995
	28 Benzo(b)fluoranthene	252	16.352	16.352	(0.978)	117855	1.00000	1.144
	29 Benzo(k)fluoranthene	252	16.374	16.374	(0.979)	122602	1.00000	1.065
	30 Benzo(a)pyrene	252	16.661	16.661	(0.997)	87054	1.00000	1.003
*	31 Perylene-d12	264	16.718	16.718	(1.000)	173609	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.737	17.737	(1.061)	90877	1.00000	1.039
$	32 Dibenz(a,h)anthrancene-d14	292	17.718	17.718	(1.060)	56742	1.00000	1.043
	34 Dibenz(a,h)anthracene	278	17.750	17.750	(1.062)	68923	1.00000	1.017
	35 Benzo(g,h,i)perylene	276	18.009	18.009	(1.077)	73851	1.00000	1.016

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic110206.d
Lab Smp Id: PNA 1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20091102.b/simpna.m
Misc Info:

Calibration Date: 02-NOV-2009
Calibration Time: 16:36

Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	353094	176547	706188	300127	-15.00
8 Acenaphthene-d10	172751	86376	345502	150404	-12.94
15 Phenanthrene-d10	254451	127226	508902	221090	-13.11
23 Chrysene-d12	238407	119204	476814	207503	-12.96
31 Perylene-d12	207102	103551	414204	173609	-16.17

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	5.98	5.48	6.48	5.98	0.01
8 Acenaphthene-d10	8.77	8.27	9.27	8.77	-0.03
15 Phenanthrene-d10	11.12	10.62	11.62	11.12	-0.02
23 Chrysene-d12	15.13	14.63	15.63	15.13	-0.04
31 Perylene-d12	16.72	16.22	17.22	16.72	-0.01

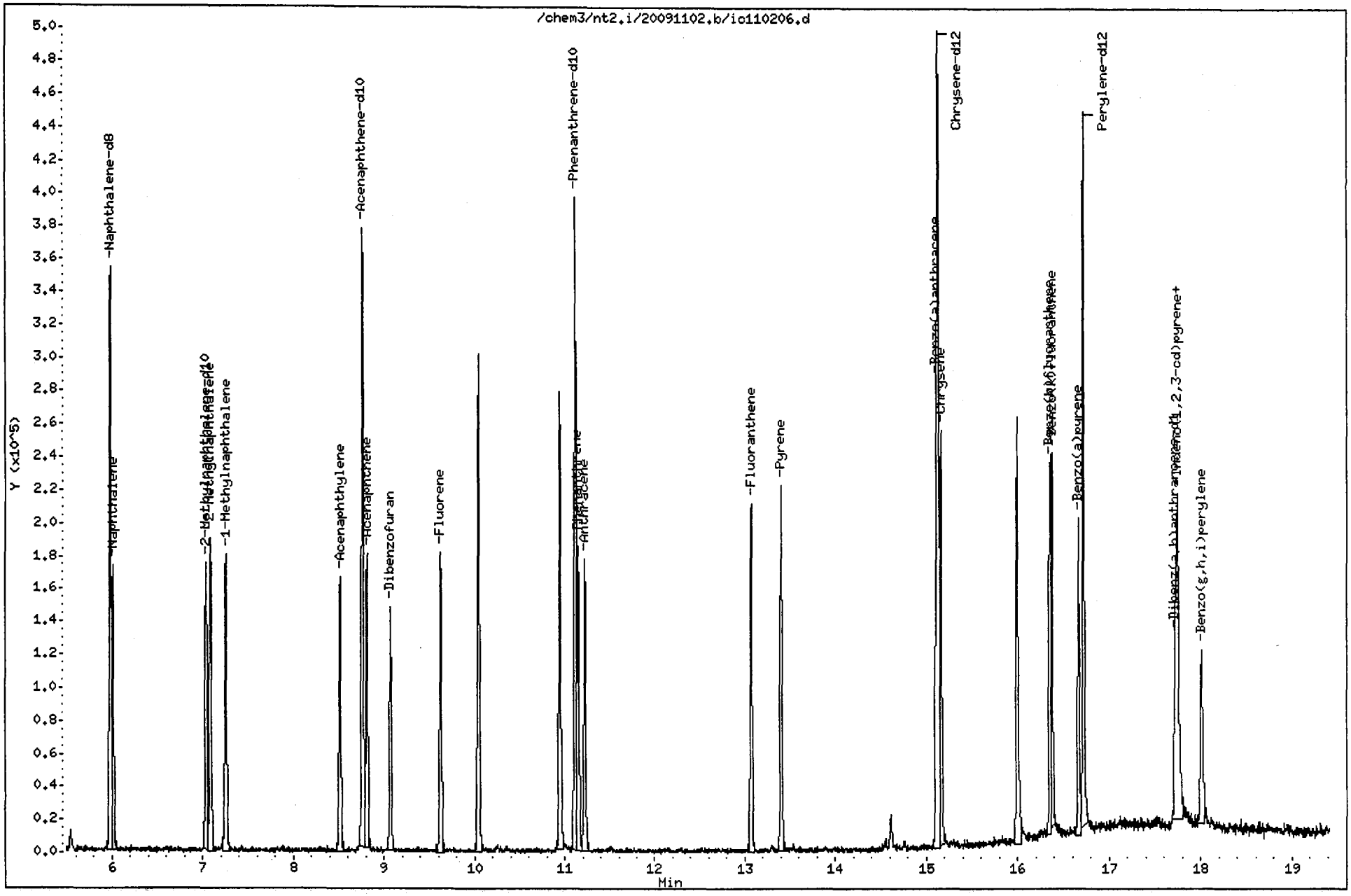
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20091102.b/ic110206.d
Date : 02-NOV-2009 18:35
Client ID:
Sample Info: PNA 1

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



Analytical Resources, Inc.

METHOD SW8270D-SIM

Data file : /chem3/nt2.i/20091102.b/ic110207.d
Lab Smp Id: ICV
Inj Date : 02-NOV-2009 18:59
Operator : VTS Inst ID: nt2.i
Smp Info : ICV
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt2.i/20091102.b/simpna.m
Meth Date : 03-Nov-2009 09:49 peter Quant Type: ISTD
Cal Date : 02-NOV-2009 18:35 Cal File: ic110206.d
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
*	1 Naphthalene-d8	136	5.983	5.983	(1.000)	287206	2.00000	
	2 Naphthalene	128	6.014	6.015	(1.005)	359659	2.52118	2.521(R)
$	3 2-Methylnaphthalene-d10	152	Compound Not Detected.					
	4 2-Methylnaphthalene	142	Compound Not Detected.					
	5 1-Methylnaphthalene	142	Compound Not Detected.					
	7 Acenaphthylene	152	8.517	8.517	(0.972)	316167	2.49931	2.499(R)
*	8 Acenaphthene-d10	164	8.766	8.766	(1.000)	144042	2.00000	
	9 Acenaphthene	153	8.816	8.817	(1.006)	186513	2.40580	2.406(R)
	10 Dibenzofuran	168	Compound Not Detected.					
	11 Fluorene	166	9.624	9.628	(1.098)	212584	2.44903	2.449(R)
*	15 Phenanthrene-d10	188	11.117	11.117	(1.000)	213046	2.00000	
	16 Phenanthrene	178	11.152	11.155	(1.003)	286852	2.34285	2.343(R)
	17 Anthracene	178	11.224	11.227	(1.010)	300714	2.48232	2.482(R)
	19 Fluoranthene	202	13.070	13.070	(1.176)	303473	2.39467	2.395(R)
	20 Pyrene	202	13.401	13.405	(0.886)	321051	2.38188	2.382(R)
	22 Benzo(a)anthracene	228	15.108	15.109	(0.999)	294320	2.42042	2.420(R)
*	23 Chrysene-d12	240	15.131	15.128	(1.000)	208921	2.00000	
	24 Chrysene	228	15.159	15.162	(1.002)	295735	2.45362	2.454(R)
	28 Benzo(b)fluoranthene	252	16.352	16.352	(0.978)	271367	2.54565	2.546(R)
	29 Benzo(k)fluoranthene	252	16.374	16.374	(0.979)	314163	2.63632	2.636(R)
	30 Benzo(a)pyrene	252	16.664	16.661	(0.997)	235823	2.62451	2.625(R)
*	31 Perylene-d12	264	16.718	16.718	(1.000)	179657	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.743	17.737	(1.061)	221654	2.44808	2.448(R)
$	32 Dibenz(a,h)anthrancene-d14	292	Compound Not Detected.					
	34 Dibenz(a,h)anthracene	278	17.746	17.750	(1.062)	173992	2.48076	2.481(R)
	35 Benzo(g,h,i)perylene	276	18.008	18.009	(1.077)	182635	2.42886	2.429(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic110207.d
Lab Smp Id: ICV
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20091102.b/simpna.m
Misc Info:

Calibration Date: 02-NOV-2009
Calibration Time: 16:36

Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	353094	176547	706188	287206	-18.66
8 Acenaphthene-d10	172751	86376	345502	144042	-16.62
15 Phenanthrene-d10	254451	127226	508902	213046	-16.27
23 Chrysene-d12	238407	119204	476814	208921	-12.37
31 Perylene-d12	207102	103551	414204	179657	-13.25

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	5.98	5.48	6.48	5.98	0.01
8 Acenaphthene-d10	8.77	8.27	9.27	8.77	-0.03
15 Phenanthrene-d10	11.12	10.62	11.62	11.12	-0.02
23 Chrysene-d12	15.13	14.63	15.63	15.13	-0.02
31 Perylene-d12	16.72	16.22	17.22	16.72	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: NONE
Lab Smp Id: ICV
Level:
Data Type: MS DATA
SpikeList File: soillcs.spk
Sublist File: pna1mn.sub
Method File: /chem3/nt2.i/20091102.b/simpna.m
Misc Info:

Client SDG: 20091102
Fraction: SV

Operator: VTS
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
2 Naphthalene	2.499	2.521	100.89*	
4 2-Methylnaphthale	2.499	0.000	*	
5 1-Methylnaphthale	2.499	0.000	*	
7 Acenaphthylene	2.499	2.499	100.01*	
9 Acenaphthene	2.499	2.406	96.27	
10 Dibenzofuran	2.499	0.000	*	
11 Fluorene	2.499	2.449	98.00	
16 Phenanthrene	2.499	2.343	93.75	
17 Anthracene	2.499	2.482	99.33	
19 Fluoranthene	2.499	2.395	95.82	
20 Pyrene	2.499	2.382	95.31	
22 Benzo(a)anthracene	2.499	2.420	96.86	
24 Chrysene	2.499	2.454	98.18	
28 Benzo(b)fluoranthe	2.499	2.546	101.87	
29 Benzo(k)fluoranthe	2.499	2.636	105.49	
30 Benzo(a)pyrene	2.499	2.625	105.02	
33 Indeno(1,2,3-cd)py	2.499	2.448	97.96	
34 Dibenz(a,h)anthrac	2.499	2.481	99.27	
35 Benzo(g,h,i)peryle	2.499	2.429	97.19	

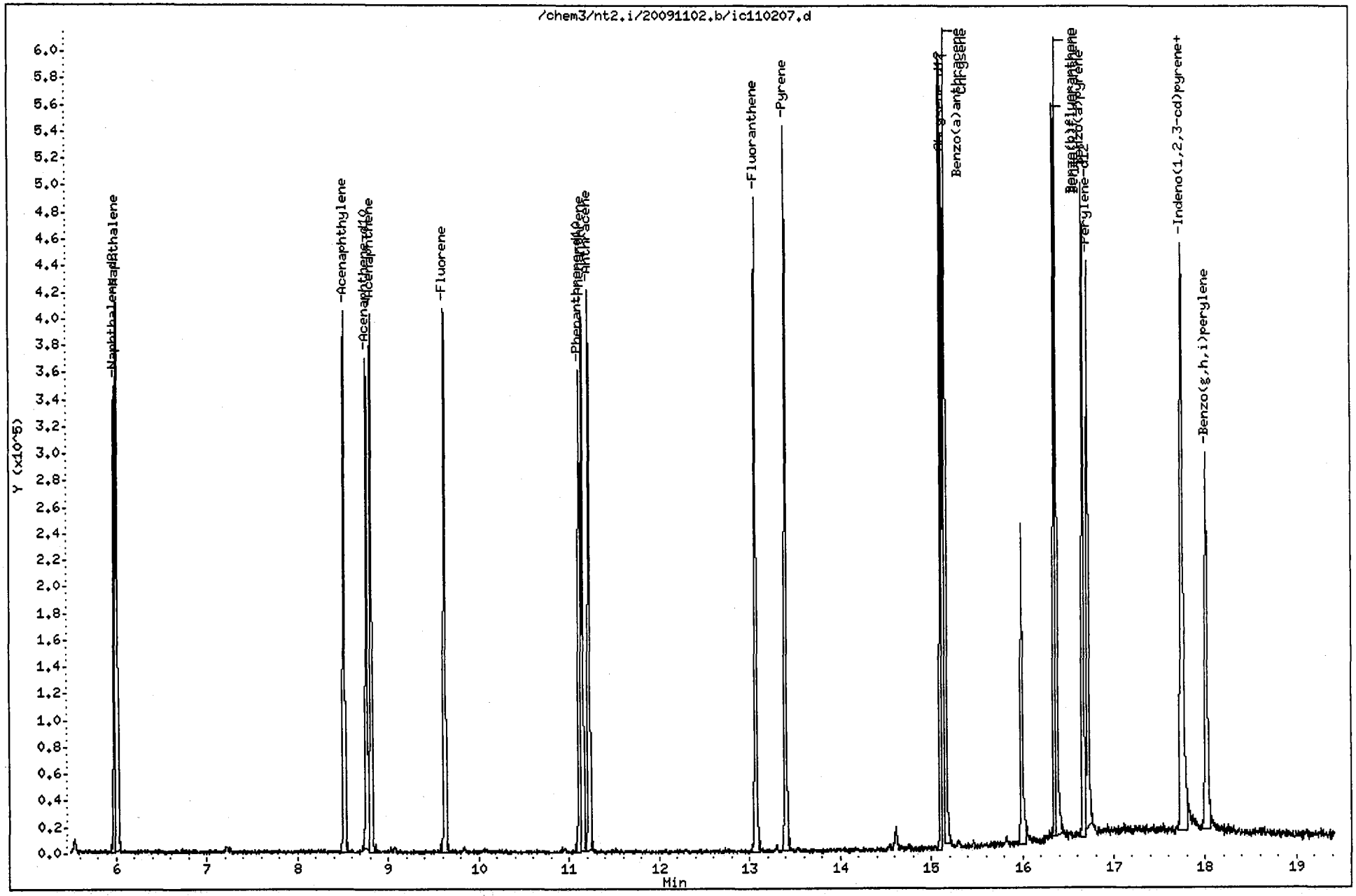
SURROGATE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
$ 3 2-Methylnaphthale	1.500	0.000	*	
$ 32 Dibenz(a,h)anthra	1.500	0.000	*	

Data File: /chem3/nt2.i/20091102.b/ic110207.d
Date : 02-NOV-2009 18:59
Client ID:
Sample Info: ICV

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR QEA

ARI Job No: PX44 Project: EDDON BOAT YARD

Instrument ID: NT2 Cont. Calib. Date: 11/18/09

Init. Calib. Date: 11/02/09 Cont. Calib. Time: 0953

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
Naphthalene	0.994	0.996	0.700	AVRG	0.2
2-Methylnaphthalene	0.594	0.586	0.400	AVRG	-1.3
Acenaphthylene	1.756	1.738	0.900	AVRG	-1.0
Acenaphthene	1.076	1.064	0.900	AVRG	-1.1
Dibenzofuran	1.462	1.426	0.800	AVRG	-2.5
Fluorene	1.205	1.212	0.900	AVRG	0.6
Phenanthrene	1.150	1.098	0.700	AVRG	-4.5
Anthracene	1.137	1.104	0.700	AVRG	-2.9
Fluoranthene	1.190	1.130	0.600	AVRG	-5.0
Pyrene	1.290	1.368	0.600	AVRG	6.0
Benzo(a)anthracene	1.164	1.112	0.800	AVRG	-4.5
Chrysene	1.154	1.120	0.700	AVRG	-2.9
Benzo(b)fluoranthene	1.187	1.145	0.700	AVRG	-3.5
Benzo(k)fluoranthene	1.326	1.243	0.700	AVRG	-6.2
Benzo(a)pyrene	1.000	0.984	0.700	AVRG	-1.6
Indeno(1,2,3-cd)pyrene	1.008	0.996	0.500	AVRG	-1.2
Dibenz(a,h)anthracene	0.781	0.749	0.010	AVRG	-4.1
Benzo(g,h,i)perylene	0.837	0.820	0.500	AVRG	-2.0
1-Methylnaphthalene	0.586	0.582	0.010	AVRG	-0.7
2-Methylnaphthalene-d10	0.535	0.534	0.010	AVRG	-0.2
Dibenz(a,h)anthrancene-d14	0.627	0.575	0.010	AVRG	-8.3

<- Exceeds QC limit of 20% D
* RF less than minimum RF

FORM VII SV-1

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt2.i
Lab File ID: cc1118.d
Analysis Type: SOIL
Lab Sample ID: PNA 2.5
Method: /chem3/nt2.i/20091118.b/simpna.m

Injection Date: 18-NOV-2009 09:53
Init. Cal. Date(s): 02-NOV-2009 02-NOV-2009
Init. Cal. Times: 16:36 18:35
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
2 Naphthalene	0.99340	0.99574	0.010	0.23603	20.00000	Averaged
$ 3 2-Methylnaphthalene-d10	0.53500	0.53352	0.010	-0.27638	20.00000	Averaged
4 2-Methylnaphthalene	0.59456	0.58616	0.010	-1.41297	20.00000	Averaged
5 1-Methylnaphthalene	0.58620	0.58207	0.010	-0.70452	20.00000	Averaged
7 Acenaphthylene	1.75645	1.73845	0.010	-1.02510	20.00000	Averaged
9 Acenaphthene	1.07644	1.06428	0.010	-1.13024	20.00000	Averaged
10 Dibenzofuran	1.46173	1.42592	0.010	-2.44933	20.00000	Averaged
11 Fluorene	1.20525	1.21210	0.010	0.56819	20.00000	Averaged
16 Phenanthrene	1.14940	1.09804	0.010	-4.46801	20.00000	Averaged
17 Anthracene	1.13724	1.10391	0.010	-2.93112	20.00000	Averaged
19 Fluoranthene	1.18968	1.13009	0.010	-5.00936	20.00000	Averaged
20 Pyrene	1.29033	1.36772	0.010	5.99780	20.00000	Averaged
22 Benzo(a)anthracene	1.16406	1.11258	0.010	-4.42244	20.00000	Averaged
24 Chrysene	1.15383	1.11969	0.010	-2.95921	20.00000	Averaged
28 Benzo(b)fluoranthene	1.18671	1.14505	0.010	-3.51010	20.00000	Averaged
29 Benzo(k)fluoranthene	1.32661	1.24337	0.010	-6.27419	20.00000	Averaged
30 Benzo(a)pyrene	1.00029	0.98355	0.010	-1.67313	20.00000	Averaged
33 Indeno(1,2,3-cd)pyrene	1.00794	0.99641	0.010	-1.14451	20.00000	Averaged
$ 32 Dibenz(a,h)anthrancene-d14	0.62657	0.57522	0.010	-8.19644	20.00000	Averaged
34 Dibenz(a,h)anthracene	0.78078	0.74944	0.010	-4.01449	20.00000	Averaged
35 Benzo(g,h,i)perylene	0.83708	0.81995	0.010	-2.04649	20.00000	Averaged

Analytical Resources, Inc.

METHOD SW8270D-SIM

Data file : /chem3/nt2.i/20091118.b/cc1118.d
Lab Smp Id: PNA 2.5
Inj Date : 18-NOV-2009 09:53
Operator : VTS Inst ID: nt2.i
Smp Info : PNA 2.5
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt2.i/20091118.b/simpna.m
Meth Date : 18-Nov-2009 10:40 peter Quant Type: ISTD
Cal Date : 02-NOV-2009 18:35 Cal File: ic110206.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	7.50000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	5.872	5.872	(1.000)	395789	2.00000	
	2 Naphthalene	128	5.903	5.903	(1.005)	492631	2.50000	2.506
$	3 2-Methylnaphthalene-d10	152	6.929	6.929	(1.180)	263953	2.50000	2.493
	4 2-Methylnaphthalene	142	6.979	6.979	(1.189)	289994	2.50000	2.465
	5 1-Methylnaphthalene	142	7.143	7.143	(1.217)	287972	2.50000	2.482
	7 Acenaphthylene	152	8.399	8.399	(0.971)	423473	2.50000	2.474
*	8 Acenaphthene-d10	164	8.652	8.652	(1.000)	194874	2.00000	
	9 Acenaphthene	153	8.702	8.702	(1.006)	259250	2.50000	2.472
	10 Dibenzofuran	168	8.958	8.958	(1.035)	347345	2.50000	2.439
	11 Fluorene	166	9.510	9.510	(1.099)	295258	2.50000	2.514
*	15 Phenanthrene-d10	188	10.999	10.999	(1.000)	288373	2.00000	
	16 Phenanthrene	178	11.037	11.037	(1.003)	395807	2.50000	2.388
	17 Anthracene	178	11.104	11.104	(1.009)	397921	2.50000	2.427
	19 Fluoranthene	202	12.953	12.953	(1.178)	407358	2.50000	2.375
	20 Pyrene	202	13.287	13.287	(0.885)	417991	2.50000	2.650

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	22 Benzo(a)anthracene	228	15.001	15.001	(0.999)	340018	2.50000	2.389
*	23 Chrysene-d12	240	15.019	15.019	(1.000)	244489	2.00000	
	24 Chrysene	228	15.054	15.054	(1.002)	342189	2.50000	2.426
	28 Benzo(b)fluoranthene	252	16.256	16.256	(0.978)	288491	2.50000	2.412
	29 Benzo(k)fluoranthene	252	16.282	16.282	(0.979)	313263	2.50000	2.343
	30 Benzo(a)pyrene	252	16.572	16.572	(0.997)	247801	2.50000	2.458
*	31 Perylene-d12	264	16.626	16.626	(1.000)	201557	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.626	17.626	(1.060)	251041	2.50000	2.471
$	32 Dibenz(a,h)anthrancene-d14	292	17.607	17.607	(1.059)	144923	2.50000	2.295
	34 Dibenz(a,h)anthracene	278	17.639	17.639	(1.061)	188817	2.50000	2.400
	35 Benzo(g,h,i)perylene	276	17.885	17.885	(1.076)	206583	2.50000	2.449

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: cc1118.d
Lab Smp Id: PNA 2.5
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20091118.b/simpna.m
Misc Info:

Calibration Date: 18-NOV-2009
Calibration Time: 09:53

Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	353094	176547	706188	395789	12.09
8 Acenaphthene-d10	172751	86376	345502	194874	12.81
15 Phenanthrene-d10	254451	127226	508902	288373	13.33
23 Chrysene-d12	238407	119204	476814	244489	2.55
31 Perylene-d12	207102	103551	414204	201557	-2.68

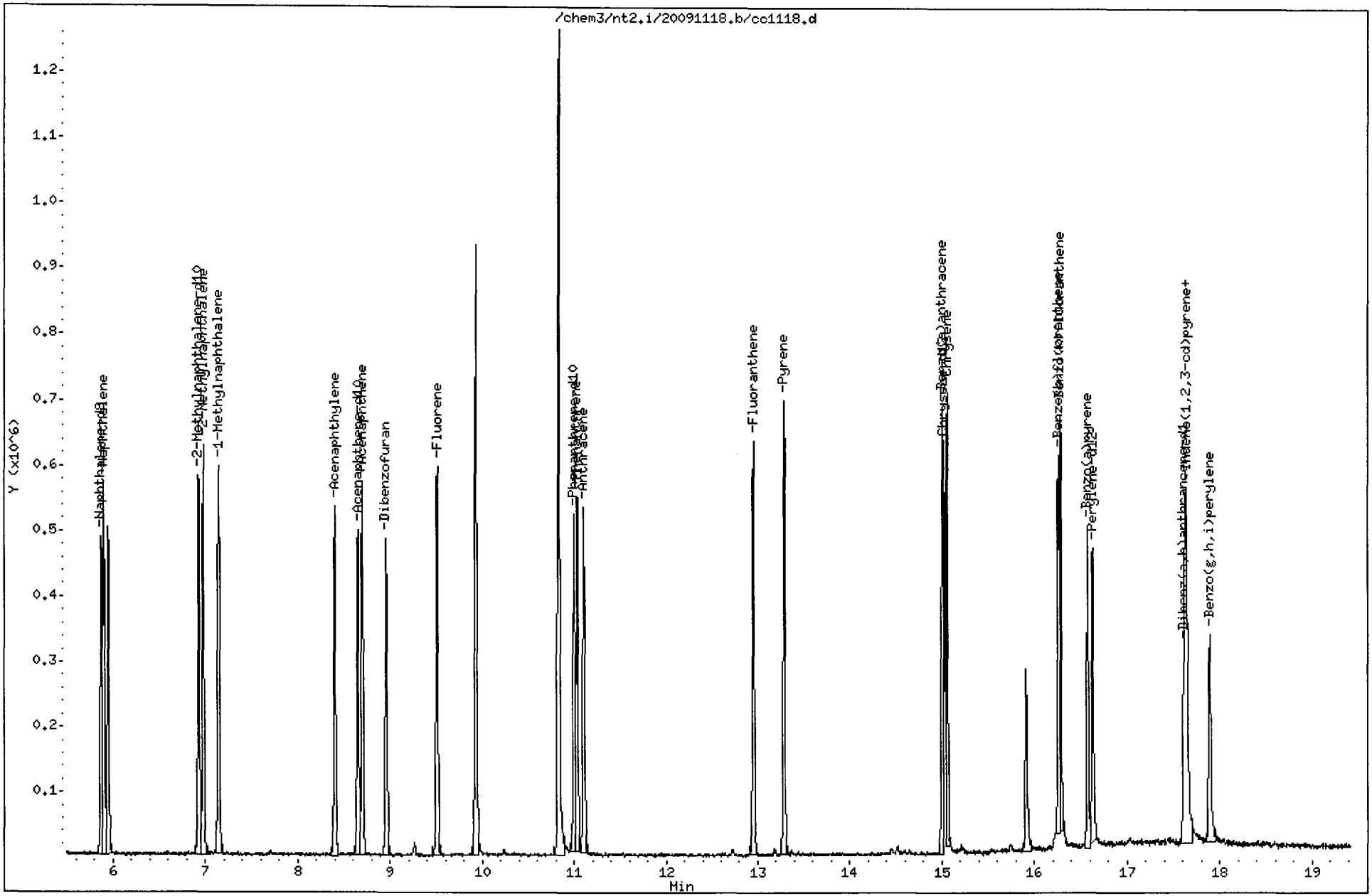
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	5.87	5.37	6.37	5.87	0.00
8 Acenaphthene-d10	8.65	8.15	9.15	8.65	0.00
15 Phenanthrene-d10	11.00	10.50	11.50	11.00	0.00
23 Chrysene-d12	15.02	14.52	15.52	15.02	0.00
31 Perylene-d12	16.63	16.13	17.13	16.63	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20091118.b/cc1118.d
Date : 18-NOV-2009 09:53
Client ID:
Sample Info: PNA 2.5
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25



PXLH:00169

7B

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR QEA

ARI Job No: PX44 Project: EDDON BOAT YARD

Instrument ID: NT2 Cont. Calib. Date: 11/19/09

Init. Calib. Date: 11/02/09 Cont. Calib. Time: 1131

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
Naphthalene	0.994	0.972	0.700	AVRG	-2.2
2-Methylnaphthalene	0.594	0.589	0.400	AVRG	-0.8
Acenaphthylene	1.756	1.791	0.900	AVRG	2.0
Acenaphthene	1.076	1.076	0.900	AVRG	0.0
Dibenzofuran	1.462	1.452	0.800	AVRG	-0.7
Fluorene	1.205	1.217	0.900	AVRG	1.0
Phenanthrene	1.150	1.107	0.700	AVRG	-3.7
Anthracene	1.137	1.108	0.700	AVRG	-2.6
Fluoranthene	1.190	1.149	0.600	AVRG	-3.4
Pyrene	1.290	1.309	0.600	AVRG	1.5
Benzo(a)anthracene	1.164	1.160	0.800	AVRG	-0.3
Chrysene	1.154	1.095	0.700	AVRG	-5.1
Benzo(b)fluoranthene	1.187	1.301	0.700	AVRG	9.6
Benzo(k)fluoranthene	1.326	1.366	0.700	AVRG	3.0
Benzo(a)pyrene	1.000	1.027	0.700	AVRG	2.7
Indeno(1,2,3-cd)pyrene	1.008	1.049	0.500	AVRG	4.1
Dibenz(a,h)anthracene	0.781	0.842	0.010	AVRG	7.8
Benzo(g,h,i)perylene	0.837	0.841	0.500	AVRG	0.5
1-Methylnaphthalene	0.586	0.577	0.010	AVRG	-1.5
2-Methylnaphthalene-d10	0.535	0.537	0.010	AVRG	0.4
Dibenz(a,h)anthrancene-d14	0.627	0.627	0.010	AVRG	0.0

<- Exceeds QC limit of 20% D

* RF less than minimum RF

FORM VII SV-1

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt2.i Injection Date: 19-NOV-2009 11:31
Lab File ID: cc1119.d Init. Cal. Date(s): 02-NOV-2009 02-NOV-2009
Analysis Type: SOIL Init. Cal. Times: 16:36 18:35
Lab Sample ID: PNA 2.5 Quant Type: ISTD
Method: /chem3/nt2.i/20091119.b/simpna.m

COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
2 Naphthalene	0.99340	0.97220	0.010	-2.13407	20.00000	Averaged
$ 3 2-Methylnaphthalene-d10	0.53500	0.53745	0.010	0.45738	20.00000	Averaged
4 2-Methylnaphthalene	0.59456	0.58906	0.010	-0.92499	20.00000	Averaged
5 1-Methylnaphthalene	0.58620	0.57708	0.010	-1.55548	20.00000	Averaged
7 Acenaphthylene	1.75645	1.79101	0.010	1.96730	20.00000	Averaged
9 Acenaphthene	1.07644	1.07615	0.010	-0.02687	20.00000	Averaged
10 Dibenzofuran	1.46173	1.45219	0.010	-0.65241	20.00000	Averaged
11 Fluorene	1.20525	1.21684	0.010	0.96174	20.00000	Averaged
16 Phenanthrene	1.14940	1.10693	0.010	-3.69465	20.00000	Averaged
17 Anthracene	1.13724	1.10837	0.010	-2.53878	20.00000	Averaged
19 Fluoranthene	1.18968	1.14881	0.010	-3.43610	20.00000	Averaged
20 Pyrene	1.29033	1.30914	0.010	1.45748	20.00000	Averaged
22 Benzo(a)anthracene	1.16406	1.15969	0.010	-0.37557	20.00000	Averaged
24 Chrysene	1.15383	1.09508	0.010	-5.09233	20.00000	Averaged
28 Benzo(b)fluoranthene	1.18671	1.30069	0.010	9.60478	20.00000	Averaged
29 Benzo(k)fluoranthene	1.32661	1.36604	0.010	2.97247	20.00000	Averaged
30 Benzo(a)pyrene	1.00029	1.02712	0.010	2.68273	20.00000	Averaged
33 Indeno(1,2,3-cd)pyrene	1.00794	1.04914	0.010	4.08733	20.00000	Averaged
$ 32 Dibenz(a,h)anthrancene-d14	0.62657	0.62744	0.010	0.13795	20.00000	Averaged
34 Dibenz(a,h)anthracene	0.78078	0.84242	0.010	7.89477	20.00000	Averaged
35 Benzo(g,h,i)perylene	0.83708	0.84142	0.010	0.51802	20.00000	Averaged

Analytical Resources, Inc.

METHOD SW8270D-SIM

Data file : /chem3/nt2.i/20091119.b/cc1119.d
Lab Smp Id: PNA 2.5
Inj Date : 19-NOV-2009 11:31
Operator : VTS Inst ID: nt2.i
Smp Info : PNA 2.5
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt2.i/20091119.b/simpna.m
Meth Date : 19-Nov-2009 12:53 peter Quant Type: ISTD
Cal Date : 02-NOV-2009 18:35 Cal File: ic110206.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	7.50000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	5.791	5.791	(1.000)	470233	2.00000	
	2 Naphthalene	128	5.819	5.819	(1.005)	571451	2.50000	2.447
$	3 2-Methylnaphthalene-d10	152	6.841	6.841	(1.181)	315907	2.50000	2.511
	4 2-Methylnaphthalene	142	6.889	6.889	(1.190)	346244	2.50000	2.477
	5 1-Methylnaphthalene	142	7.056	7.056	(1.218)	339204	2.50000	2.461
	7 Acenaphthylene	152	8.306	8.306	(0.971)	513815	2.50000	2.549
*	8 Acenaphthene-d10	164	8.555	8.555	(1.000)	229509	2.00000	
	9 Acenaphthene	153	8.605	8.605	(1.006)	308733	2.50000	2.499
	10 Dibenzofuran	168	8.864	8.864	(1.036)	416613	2.50000	2.484
	11 Fluorene	166	9.413	9.413	(1.100)	349094	2.50000	2.524
*	15 Phenanthrene-d10	188	10.896	10.896	(1.000)	342481	2.00000	
	16 Phenanthrene	178	10.931	10.931	(1.003)	473879	2.50000	2.408
	17 Anthracene	178	11.003	11.003	(1.010)	474494	2.50000	2.437
	19 Fluoranthene	202	12.846	12.846	(1.179)	491805	2.50000	2.414

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	20 Pyrene	202	13.184	13.184	(0.883)	496191	2.50000	2.536
	22 Benzo(a)anthracene	228	14.907	14.907	(0.999)	439548	2.50000	2.491
*	23 Chrysene-d12	240	14.926	14.926	(1.000)	303217	2.00000	
	24 Chrysene	228	14.960	14.960	(1.002)	415057	2.50000	2.373
	28 Benzo(b)fluoranthene	252	16.175	16.175	(0.978)	417863	2.50000	2.740
	29 Benzo(k)fluoranthene	252	16.197	16.197	(0.979)	438859	2.50000	2.574
	30 Benzo(a)pyrene	252	16.488	16.488	(0.997)	329976	2.50000	2.567
*	31 Perylene-d12	264	16.544	16.544	(1.000)	257010	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.526	17.526	(1.059)	337050	2.50000	2.602
$	32 Dibenz(a,h)anthrancene-d14	292	17.510	17.510	(1.058)	201572	2.50000	2.503
	34 Dibenz(a,h)anthracene	278	17.538	17.538	(1.060)	270639	2.50000	2.697
	35 Benzo(g,h,i)perylene	276	17.778	17.778	(1.075)	270316	2.50000	2.513

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: cc1119.d
Lab Smp Id: PNA 2.5
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20091119.b/simpna.m
Misc Info:

Calibration Date: 19-NOV-2009
Calibration Time: 11:31

Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	353094	176547	706188	470233	33.18
8 Acenaphthene-d10	172751	86376	345502	229509	32.86
15 Phenanthrene-d10	254451	127226	508902	342481	34.60
23 Chrysene-d12	238407	119204	476814	303217	27.18
31 Perylene-d12	207102	103551	414204	257010	24.10

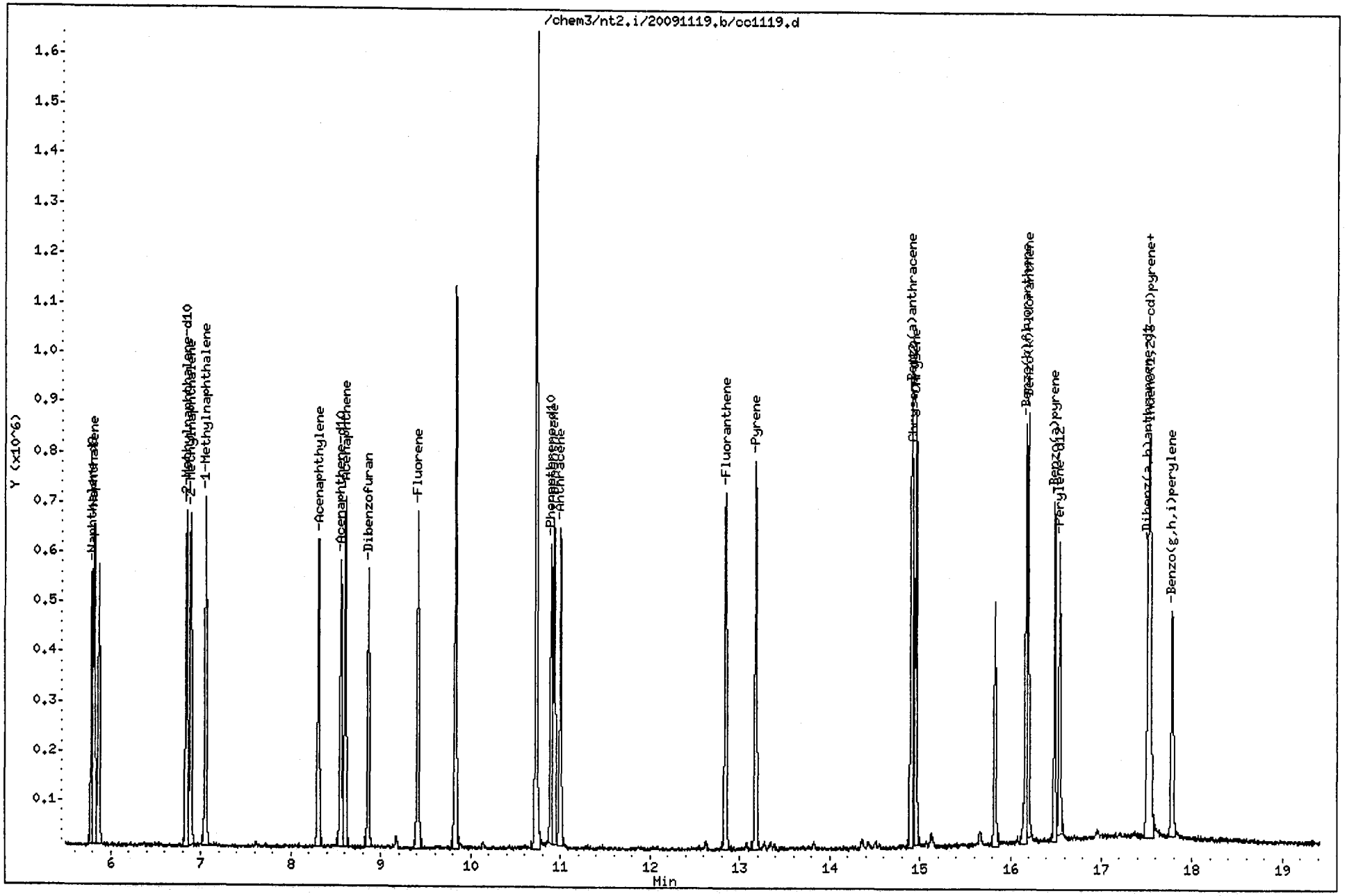
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	5.79	5.29	6.29	5.79	0.00
8 Acenaphthene-d10	8.55	8.05	9.05	8.55	0.00
15 Phenanthrene-d10	10.90	10.40	11.40	10.90	0.00
23 Chrysene-d12	14.93	14.43	15.43	14.93	0.00
31 Perylene-d12	16.54	16.04	17.04	16.54	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20091119.b/cc1119.d
Date : 19-NOV-2009 11:31
Client ID:
Sample Info: PNA 2.5
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25



SIM Semivolatile Analysis
QC Raw Data

prepared
for

Anchor QEA

Project: Eddon Boatyard

ARI JOB NO: PX44

prepared
by

Analytical Resources, Inc.

Data File: /chem3/nt2.i/20091102.b/df1102.d

Date : 02-NOV-2009 16:17

Client ID:

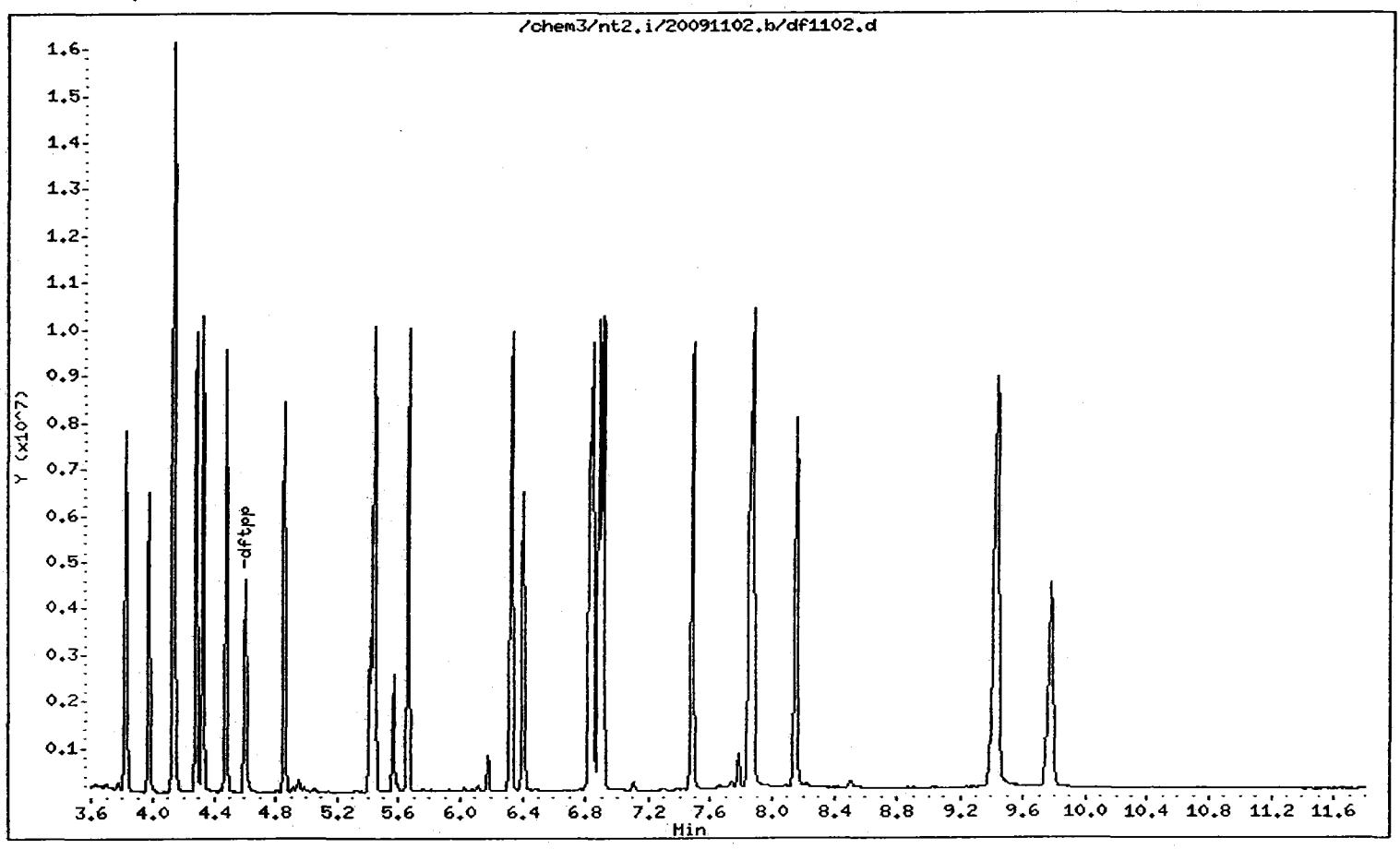
Instrument: nt2.i

Sample Info: DFTPP

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



Data File: /chem3/nt2.i/20091102.b/df1102.d

Date : 02-NOV-2009 16:17

Client ID:

Instrument: nt2.i

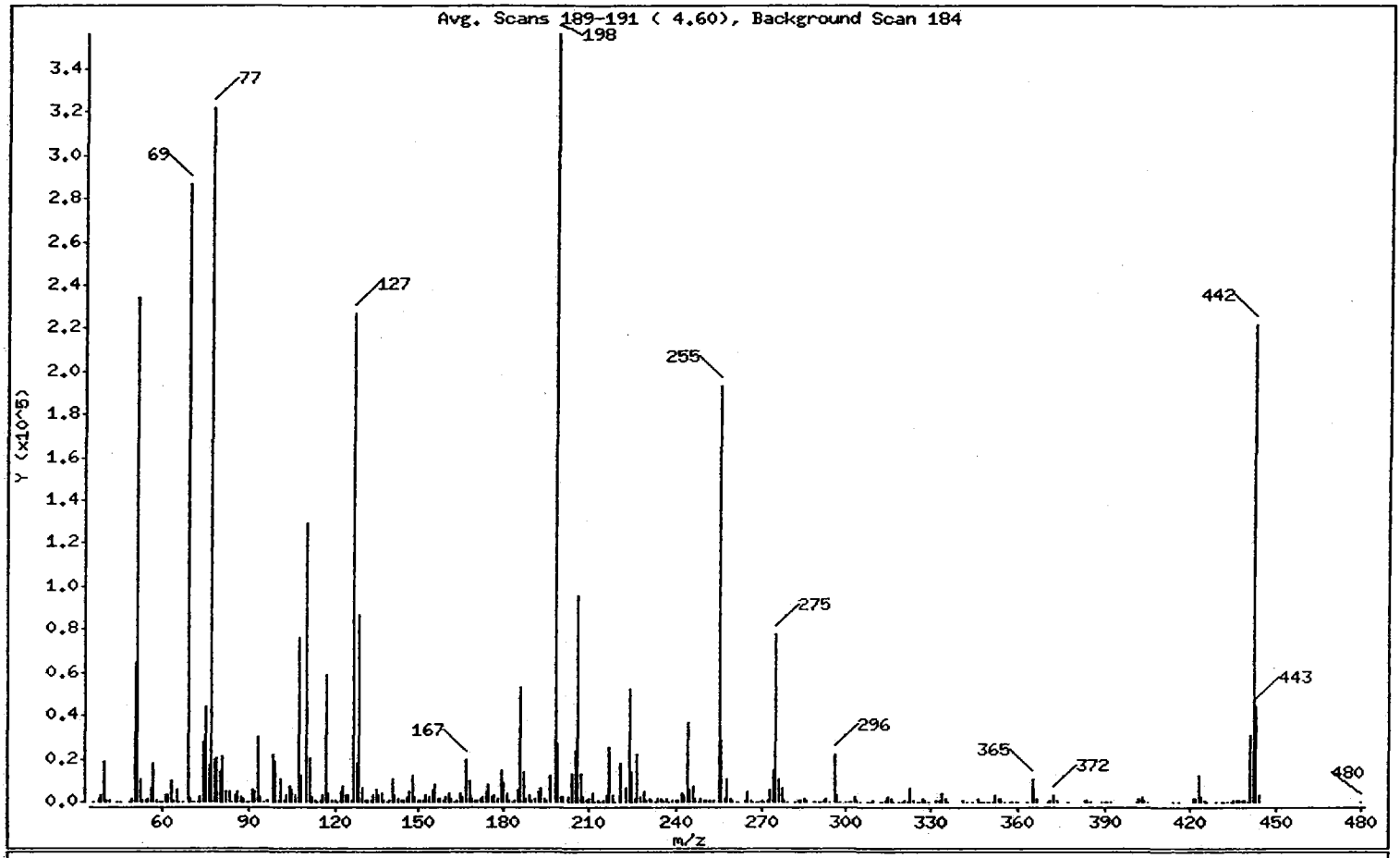
Sample Info: DFTPP

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	65.68
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	80.49
70	Less than 2.00% of mass 69	0.53 (0.66)
127	25.00 - 75.00% of mass 198	63.58
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.62
275	10.00 - 30.00% of mass 198	21.75
365	Greater than 0.75% of mass 198	2.92
441	Present, but less than mass 443	8.82
442	40.00 - 110.00% of mass 198	62.40
443	15.00 - 24.00% of mass 442	12.50 (20.04)

Data File: /chem3/nt2.i/20091102.b/df1102.d

Date : 02-NOV-2009 16:17

Client ID:

Instrument: nt2.i

Sample Info: DFTPP

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df1102.d

Spectrum: Avg. Scans 189-191 (4.60), Background Scan 184

Location of Maximum: 198.00

Number of points: 338

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	307	128.00	18328	215.00	874	312.00	251
37.00	1334	129.00	86552	216.00	3022	313.00	285
38.00	3284	130.00	6730	217.00	25608	314.00	1125
39.00	18576	131.00	1065	218.00	3345	315.00	2358
40.00	655	132.00	886	219.00	305	316.00	1509
41.00	975	133.00	542	221.00	18256	317.00	400
44.00	166	134.00	2982	223.00	6170	319.00	174
45.00	364	135.00	6014	224.00	52672	320.00	79
48.00	137	136.00	3208	225.00	13714	321.00	528
49.00	1268	137.00	3749	226.00	1514	322.00	399
50.00	64752	138.00	614	227.00	21856	323.00	6284
51.00	233984	139.00	199	228.00	2738	324.00	1196
52.00	10929	140.00	1145	229.00	4762	325.00	354
53.00	927	141.00	10827	230.00	624	326.00	69
54.00	498	142.00	3642	231.00	1845	327.00	1253
55.00	1319	143.00	1878	232.00	439	328.00	802
56.00	6280	144.00	642	233.00	325	329.00	125
57.00	18312	145.00	621	234.00	1411	332.00	429
58.00	482	146.00	2118	235.00	1510	333.00	676
59.00	280	147.00	5230	236.00	907	334.00	4233
60.00	402	148.00	11931	237.00	1577	335.00	1236
61.00	2883	149.00	2291	238.00	164	336.00	309
62.00	3599	150.00	438	239.00	1228	341.00	888
63.00	9591	151.00	981	240.00	825	342.00	94
64.00	1161	152.00	607	241.00	1071	344.00	117
65.00	5393	153.00	2889	242.00	4142	346.00	1276
66.00	49	154.00	2226	243.00	3150	347.00	117
67.00	40	155.00	5756	244.00	37040	348.00	70
69.00	286720	156.00	8343	245.00	5662	349.00	73
70.00	1886	157.00	1692	246.00	7631	350.00	67
71.00	407	158.00	1895	247.00	1390	351.00	104
72.00	71	159.00	965	248.00	403	352.00	2931
73.00	2477	160.00	2666	249.00	1546	353.00	1455
74.00	27680	161.00	4419	250.00	466	354.00	1862
75.00	44312	162.00	1355	251.00	483	355.00	103

Data File: /chem3/nt2.i/20091102.b/df1102.d

Date : 02-NOV-2009 16:17

Client ID:

Instrument: nt2.i

Sample Info: DFTPP

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df1102.d

Spectrum: Avg. Scans 189-191 (4.60), Background Scan 184

Location of Maximum: 198.00

Number of points: 338

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.00	16888	163.00	158	252.00	589	357.00	220
77.00	321792	164.00	806	253.00	681	358.00	76
78.00	19736	165.00	3875	255.00	193152	359.00	150
79.00	20088	166.00	2276	256.00	28968	360.00	205
80.00	13861	167.00	19960	257.00	2013	363.00	157
81.00	21280	168.00	10134	258.00	10565	365.00	10419
82.00	5208	169.00	1343	259.00	1879	366.00	1509
83.00	4590	170.00	969	260.00	416	370.00	236
84.00	151	171.00	1157	261.00	208	371.00	590
85.00	2952	172.00	1386	262.00	82	372.00	3268
86.00	4958	173.00	2471	264.00	439	373.00	686
87.00	2832	174.00	4934	265.00	4602	377.00	107
88.00	1263	175.00	7828	266.00	717	383.00	988
89.00	409	176.00	2083	267.00	109	384.00	438
90.00	205	177.00	3370	268.00	172	385.00	71
91.00	5337	178.00	1249	269.00	72	389.00	73
92.00	4822	179.00	14733	270.00	557	390.00	382
93.00	30112	180.00	9291	271.00	381	391.00	356
94.00	2166	181.00	4326	272.00	879	392.00	129
95.00	222	182.00	1078	273.00	5335	401.00	235
96.00	927	183.00	273	274.00	14778	402.00	1513
98.00	21976	184.00	1145	275.00	77464	403.00	2286
99.00	18840	185.00	6094	276.00	10336	404.00	953
100.00	1085	186.00	52928	277.00	6820	405.00	222
101.00	10403	187.00	13810	278.00	1206	414.00	73
102.00	886	188.00	1721	279.00	401	416.00	84
103.00	3634	189.00	3334	282.00	116	421.00	1731
104.00	7248	190.00	798	283.00	792	422.00	1643
105.00	5783	191.00	1626	284.00	473	423.00	12414
106.00	3207	192.00	4683	285.00	1311	424.00	2578
107.00	75896	193.00	6594	286.00	441	425.00	633
108.00	12572	194.00	1333	288.00	91	426.00	153
110.00	129432	195.00	1083	289.00	404	429.00	95
111.00	20288	196.00	12304	290.00	173	431.00	93
112.00	2556	198.00	356224	291.00	183	432.00	104

Date : 02-NOV-2009 16:17

Client ID: Instrument: nt2.i

Sample Info: DFTPP

Operator: VTS

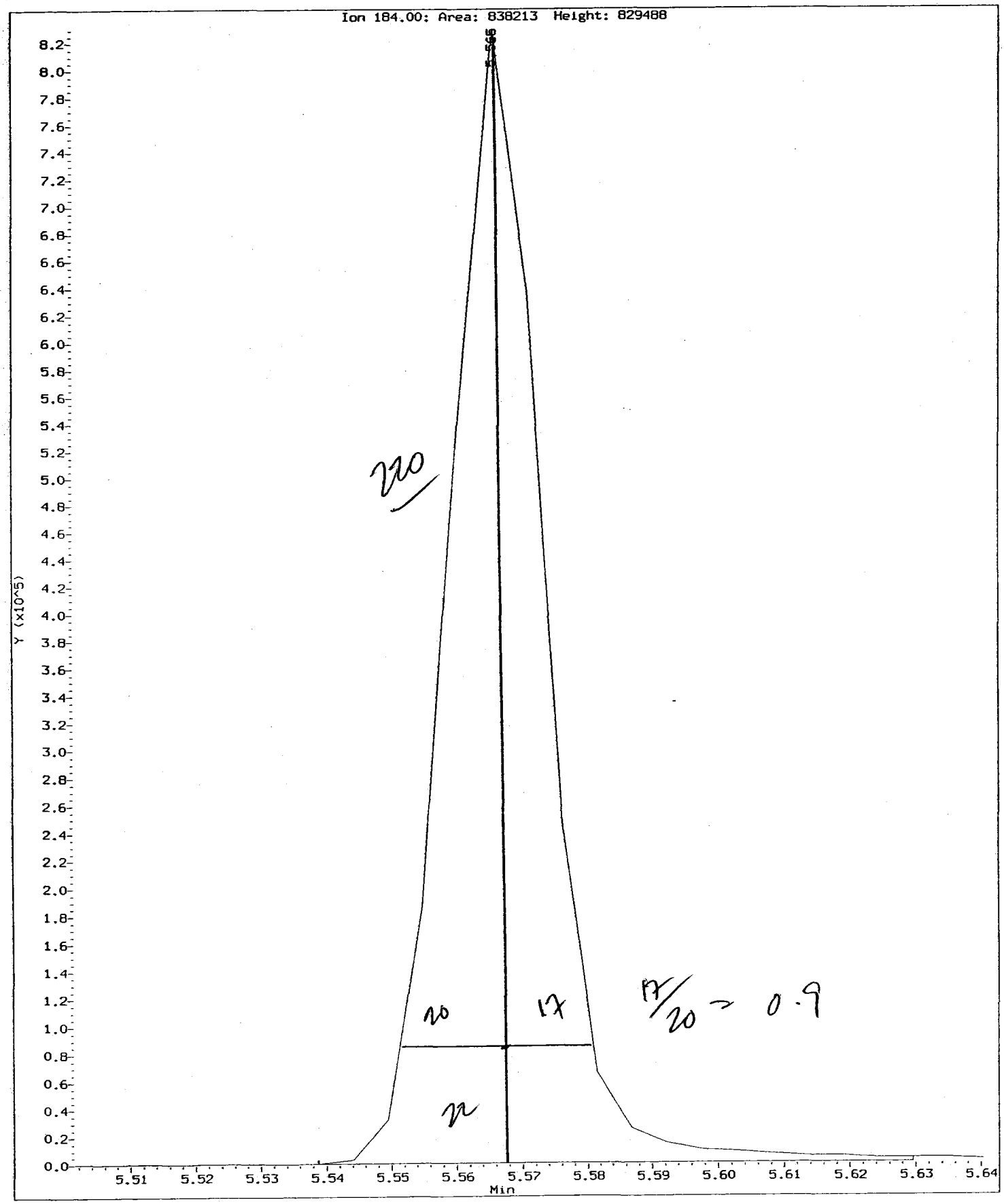
Column phase: ZB-5msi Column diameter: 0.25

Data File: df1102.d
Spectrum: Avg. Scans 189-191 (4.60), Background Scan 184
Location of Maximum: 198.00
Number of points: 338

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	877	199.00	27144	292.00	459	433.00	320
114.00	241	200.00	2069	293.00	1334	434.00	211
115.00	582	201.00	2456	294.00	328	435.00	763
116.00	3554	203.00	2631	296.00	22496	436.00	512
117.00	59048	204.00	13089	297.00	3130	437.00	505
118.00	4407	205.00	23848	298.00	109	438.00	691
119.00	782	206.00	96112	300.00	78	439.00	1155
120.00	1043	207.00	13005	301.00	289	440.00	231
121.00	202	208.00	2561	302.00	381	441.00	31408
122.00	4843	209.00	1009	303.00	2604	442.00	222272
123.00	7083	210.00	1828	304.00	686	443.00	44544
124.00	3041	211.00	3986	305.00	195	444.00	3662
125.00	2925	212.00	170	308.00	111	480.00	67
126.00	557	213.00	599	309.00	94		
127.00	226496	214.00	110	310.00	551		

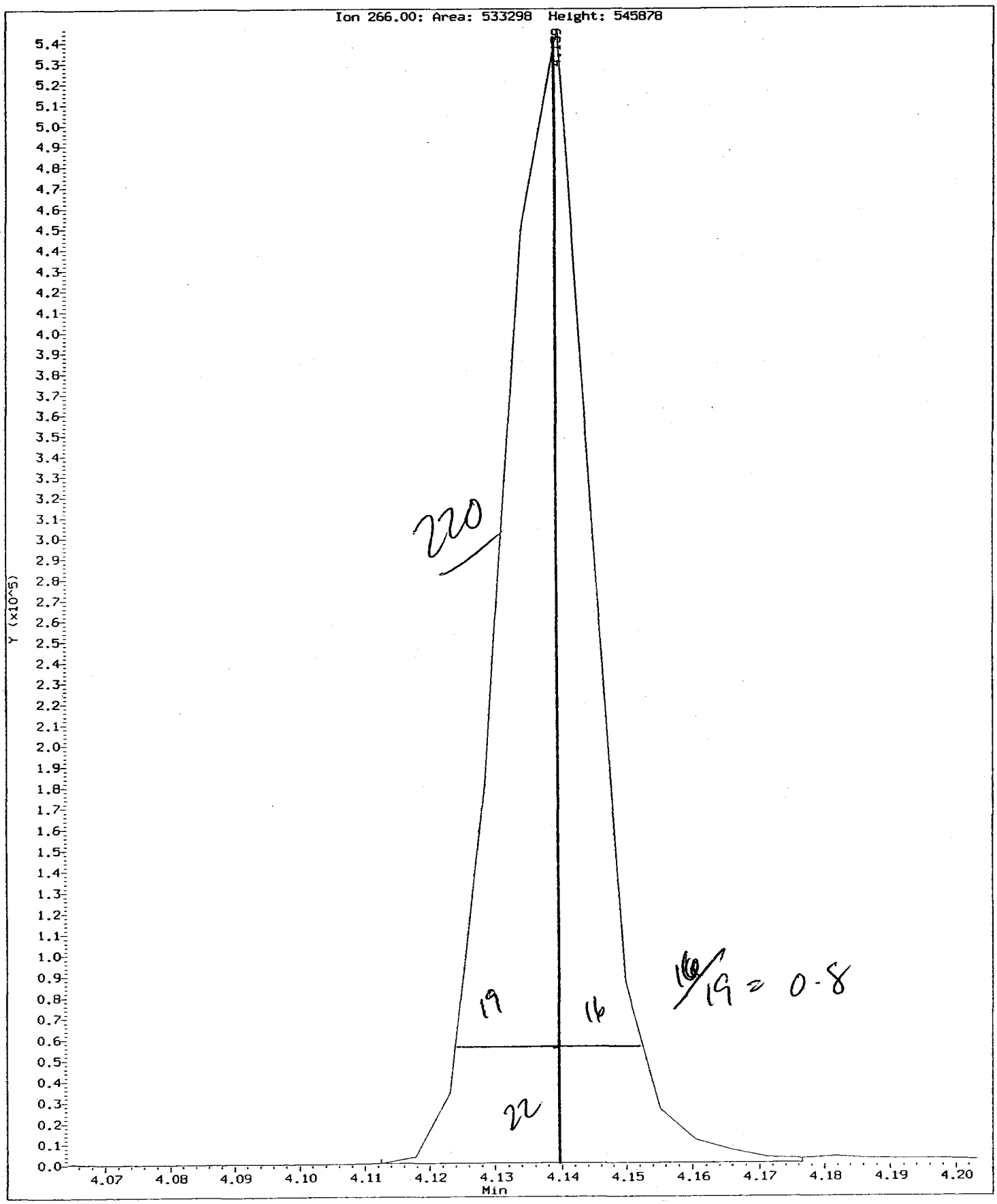
Data File: /chem3/nt2.i/20091102.b/ddt.b/df1102.d
Injection Date: 02-NOV-2009 16:17
Instrument: nt2.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Data File: /chem3/nt2.i/20091102.b/ddt.b/df1102.d
Injection Date: 02-NOV-2009 16:17
Instrument: nt2.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt2.i/20091102.b/ddt.b/df1102.d
Method: /chem3/nt2.i/20091102.b/ddt.b/sw846ddt.m
Analysis Date: 02-NOV-2009 16:17

ARI ID: DFTPP
Misc:
Instrument: nt2.i

COMPOUND	RT	AREA
Pentachlorophenol	4.139	533298
Benzidine	5.565	838213
4,4'-DDE	5.790	1817
4,4'-DDD	6.116	19489
4,4'-DDT	6.404	1099021

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(1817 + 19489) * 100}{(1817 + 19489 + 1099021)}$$

DDT Percent Breakdown = 1.9 %

Data File: /chem3/nt2.i/20091118.b/df1118.d

Date : 18-NOV-2009 09:33

Client ID:

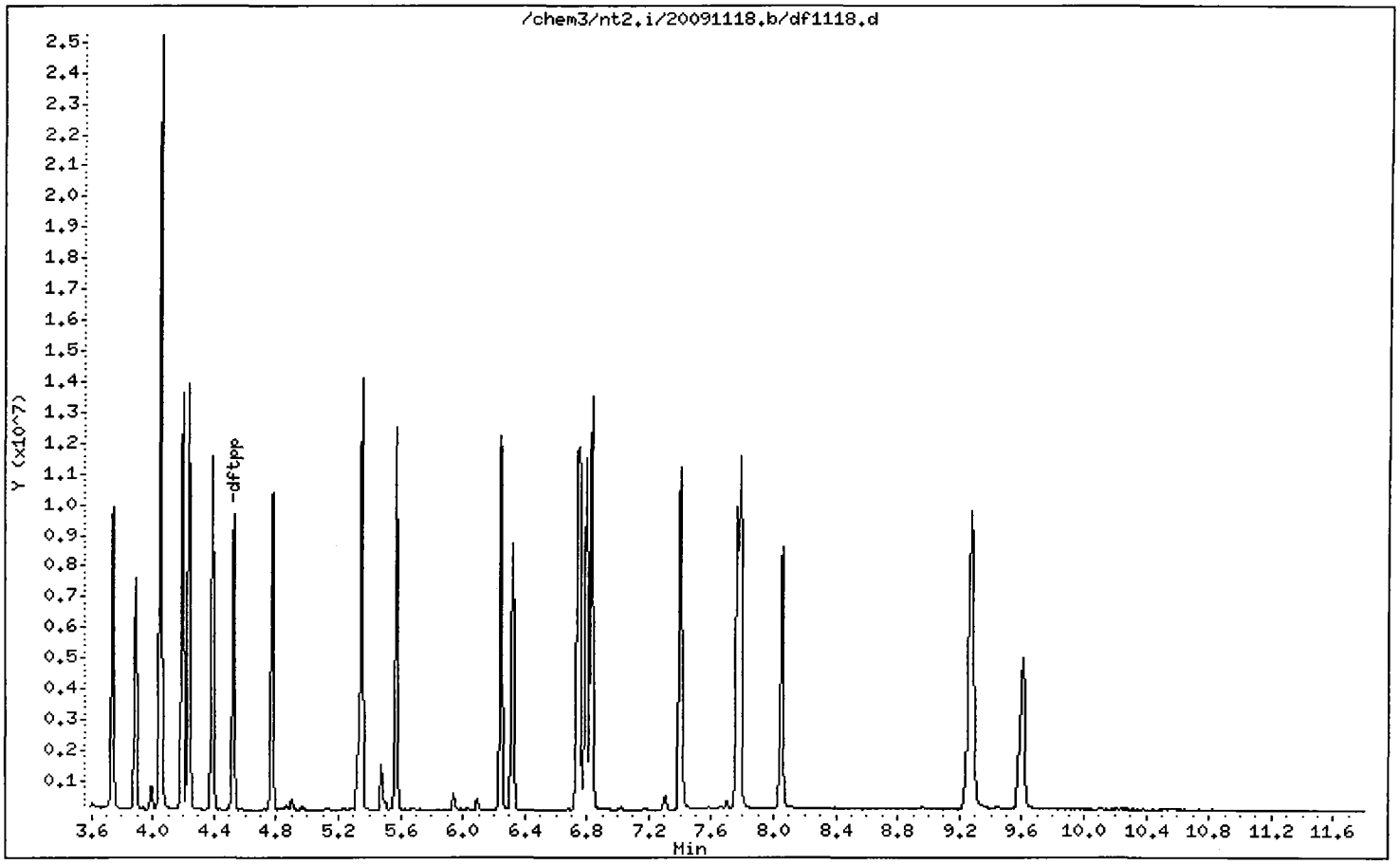
Instrument: nt2.i

Sample Info: DFTPP

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



Data File: /chem3/nt2.i/20091118.b/df1118.d

Date : 18-NOV-2009 09:33

Client ID:

Instrument: nt2.i

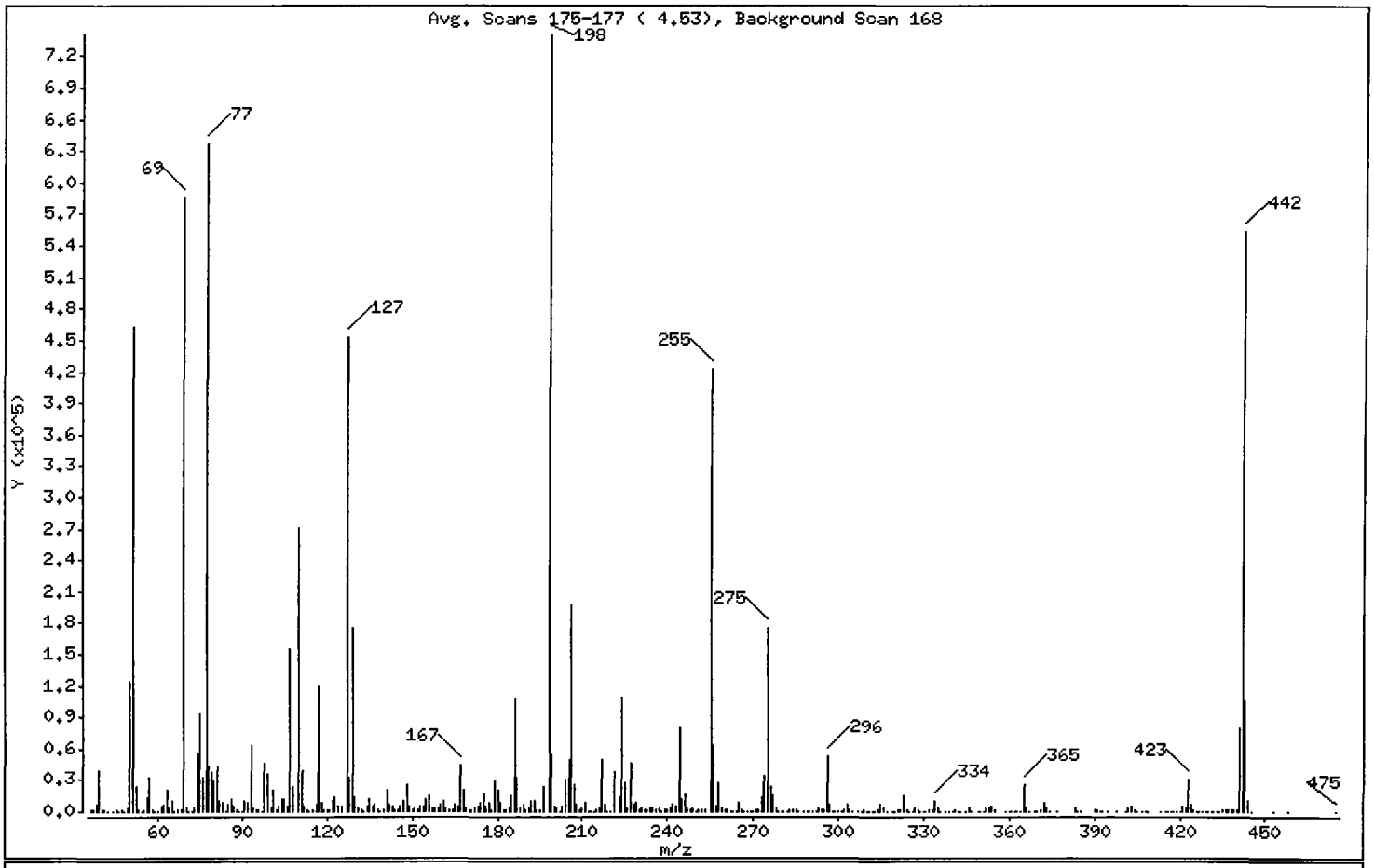
Sample Info: DFTPP

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	62.54
68	Less than 2.00% of mass 69	0.27 (0.34)
69	Mass 69 relative abundance	79.13
70	Less than 2.00% of mass 69	0.42 (0.53)
127	25.00 - 75.00% of mass 198	61.13
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.26
275	10.00 - 30.00% of mass 198	23.56
365	Greater than 0.75% of mass 198	3.39
441	Present, but less than mass 443	10.71
442	40.00 - 110.00% of mass 198	74.60
443	15.00 - 24.00% of mass 442	14.35 (19.23)

Data File: /chem3/nt2.i/20091118.b/df1118.d

Date : 18-NOV-2009 09:33

Client ID:

Instrument: nt2.i

Sample Info: DFTPP

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df1118.d
Spectrum: Avg. Scans 175-177 (4.53), Background Scan 168
Location of Maximum: 198.00
Number of points: 376

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1050	134.00	5408	231.00	3803	330.00	195
37.00	2211	135.00	12499	232.00	865	331.00	483
38.00	6034	136.00	5621	233.00	924	332.00	1116
39.00	39624	137.00	7310	234.00	2794	333.00	1559
40.00	2085	138.00	1209	235.00	3574	334.00	10022
41.00	1182	139.00	725	236.00	2163	335.00	2753
42.00	135	140.00	1314	237.00	2906	336.00	393
44.00	538	141.00	19936	238.00	664	338.00	157
45.00	1301	142.00	6642	239.00	1598	339.00	251
46.00	114	143.00	4975	240.00	1575	340.00	227
47.00	943	144.00	1255	241.00	2803	341.00	2262
48.00	301	145.00	1256	242.00	7407	342.00	636
49.00	2822	146.00	4289	243.00	5772	343.00	77
50.00	124048	147.00	10819	244.00	79264	345.00	73
51.00	463552	148.00	24784	245.00	11734	346.00	3870
52.00	24056	149.00	5144	246.00	16424	347.00	393
53.00	978	150.00	955	247.00	4061	349.00	66
54.00	253	151.00	3364	248.00	907	350.00	166
55.00	1505	152.00	1048	249.00	3615	351.00	403
56.00	13119	153.00	5933	250.00	810	352.00	4040
57.00	32928	154.00	4536	251.00	905	353.00	3547
58.00	1767	155.00	11497	252.00	927	354.00	5191
59.00	309	156.00	16131	253.00	2489	355.00	1175
60.00	763	157.00	2765	255.00	422528	359.00	535
61.00	5176	158.00	3803	256.00	63088	360.00	595
62.00	7148	159.00	3261	257.00	4928	361.00	170
63.00	20952	160.00	6121	258.00	27720	362.00	237
64.00	3264	161.00	9744	259.00	4110	363.00	367
65.00	10609	162.00	2674	260.00	861	364.00	219
66.00	235	163.00	1113	261.00	1057	365.00	25128
67.00	1581	164.00	1144	262.00	358	366.00	3703
68.00	1965	165.00	6767	263.00	259	367.00	202
69.00	586496	166.00	4890	264.00	626	369.00	117
70.00	3105	167.00	44800	265.00	9125	370.00	404
71.00	493	168.00	19752	266.00	2047	371.00	873

Data File: /chem3/nt2.i/20091118.b/df1118.d

Date : 18-NOV-2009 09:33

Client ID:

Instrument: nt2.i

Sample Info: DFTPP

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df1118.d
Spectrum: Avg. Scans 175-177 (4.53), Background Scan 168
Location of Maximum: 198.00
Number of points: 376

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	19	169.00	3046	267.00	353	372.00	9144
73.00	3760	170.00	1628	268.00	213	373.00	2713
74.00	56440	171.00	1347	269.00	276	374.00	238
75.00	93024	172.00	3226	270.00	646	377.00	83
76.00	31728	173.00	4676	271.00	1069	383.00	2719
77.00	637120	174.00	9146	272.00	1103	384.00	445
78.00	42048	175.00	16624	273.00	13049	385.00	220
79.00	38096	176.00	5174	274.00	33992	390.00	1133
80.00	29176	177.00	7984	275.00	174656	391.00	1178
81.00	42680	178.00	1678	276.00	23712	392.00	530
82.00	10446	179.00	28584	277.00	14859	393.00	131
83.00	8996	180.00	20080	278.00	2793	395.00	92
84.00	523	181.00	9342	279.00	564	398.00	75
85.00	6144	182.00	1927	280.00	181	401.00	810
86.00	11556	183.00	1159	281.00	226	402.00	2818
87.00	4831	184.00	2646	282.00	468	403.00	5026
88.00	2199	185.00	14541	283.00	1578	404.00	1961
89.00	794	186.00	106984	284.00	1488	405.00	252
90.00	193	187.00	33032	285.00	2501	407.00	68
91.00	9397	188.00	2959	286.00	733	408.00	84
92.00	9300	189.00	6348	288.00	211	409.00	164
93.00	62288	190.00	1585	289.00	637	413.00	110
94.00	3973	191.00	3229	290.00	640	415.00	297
95.00	1169	192.00	10272	291.00	349	416.00	174
96.00	2006	193.00	10471	292.00	753	417.00	186
97.00	564	194.00	2437	293.00	3626	418.00	169
98.00	45328	195.00	1175	294.00	1185	419.00	153
99.00	36488	196.00	24592	295.00	963	420.00	214
100.00	3098	198.00	741184	296.00	52032	421.00	4893
101.00	19912	199.00	53816	297.00	6619	422.00	3604
102.00	1114	200.00	4337	298.00	760	423.00	30928
103.00	5786	201.00	3747	299.00	376	424.00	6539
104.00	12521	202.00	760	300.00	67	425.00	924
105.00	12771	203.00	5611	301.00	774	426.00	163
106.00	5798	204.00	30088	302.00	1523	427.00	212

Data File: /chem3/nt2.i/20091118.b/df1118.d

Date : 18-NOV-2009 09:33

Client ID:

Instrument: nt2.i

Sample Info: DFTPP

Operator: VTS

Column phase: ZB-5msi

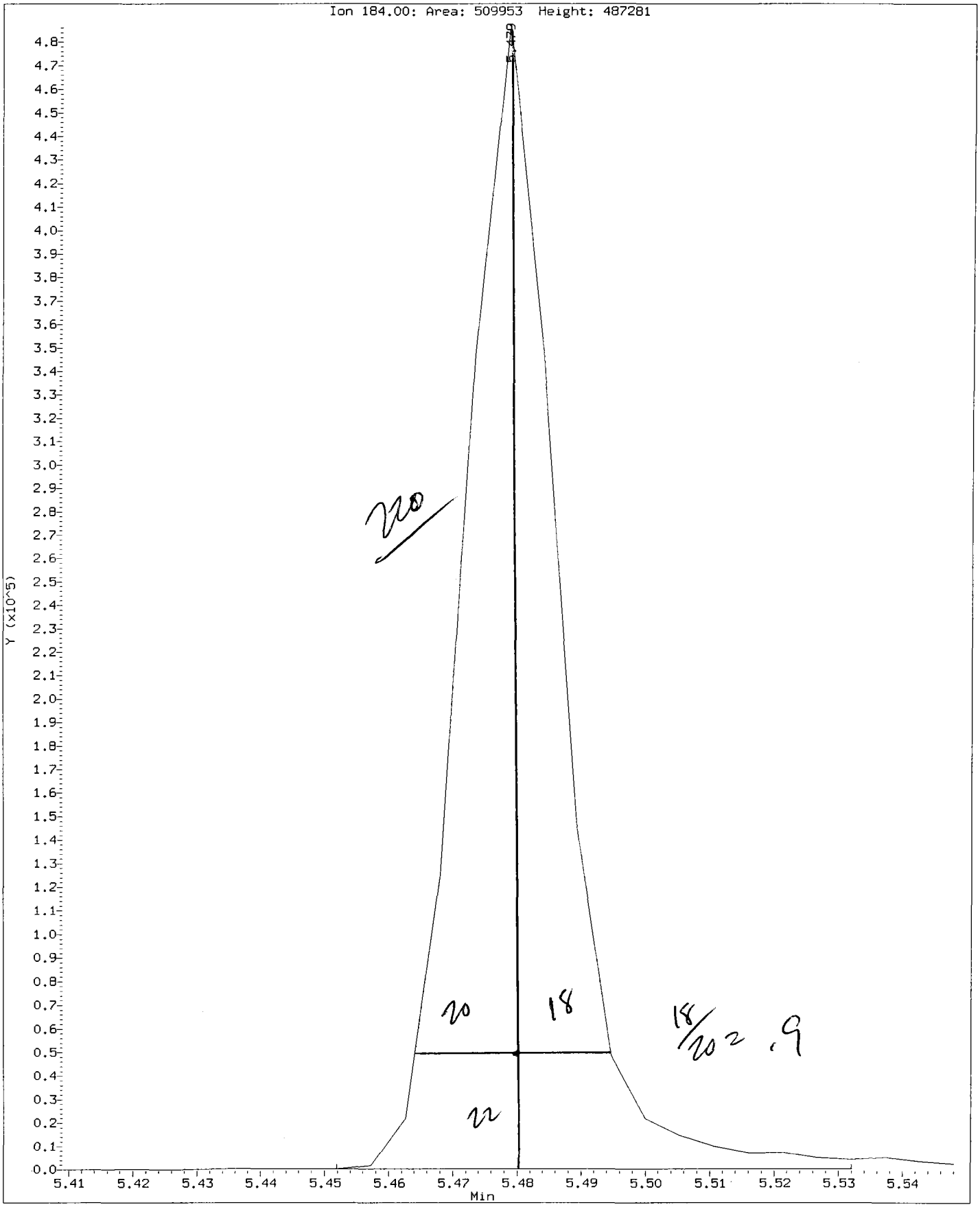
Column diameter: 0.25

Data File: df1118.d
Spectrum: Avg. Scans 175-177 (4.53), Background Scan 168
Location of Maximum: 198.00
Number of points: 376

m/z	Y	m/z	Y	m/z	Y	m/z	Y
107.00	154496	205.00	50112	303.00	6412	428.00	525
108.00	24352	206.00	198080	304.00	1740	429.00	276
110.00	271616	207.00	25920	305.00	344	430.00	452
111.00	38960	208.00	6143	307.00	227	431.00	568
112.00	4339	209.00	1573	308.00	736	432.00	507
113.00	1978	210.00	2857	309.00	867	433.00	374
114.00	206	211.00	9055	310.00	762	434.00	491
115.00	1011	212.00	148	311.00	286	435.00	1285
116.00	7557	213.00	802	312.00	718	436.00	868
117.00	119768	214.00	475	313.00	587	437.00	1901
118.00	8455	215.00	2380	314.00	2186	438.00	1792
119.00	984	216.00	4132	315.00	6085	439.00	2398
120.00	2019	217.00	49416	316.00	3362	440.00	1534
121.00	882	218.00	6101	317.00	718	441.00	79416
122.00	9618	219.00	746	319.00	69	442.00	552960
123.00	13558	220.00	203	320.00	70	443.00	106336
124.00	5143	221.00	37624	321.00	1883	444.00	10058
125.00	5492	223.00	13000	322.00	1065	445.00	677
127.00	453120	224.00	109128	323.00	15219	453.00	69
128.00	33104	225.00	27744	324.00	2470	458.00	105
129.00	175296	226.00	3472	325.00	227	475.00	109
130.00	14146	227.00	45944	326.00	278		
131.00	3567	228.00	6032	327.00	3769		
132.00	1777	229.00	9010	328.00	1272		
133.00	732	230.00	1910	329.00	269		

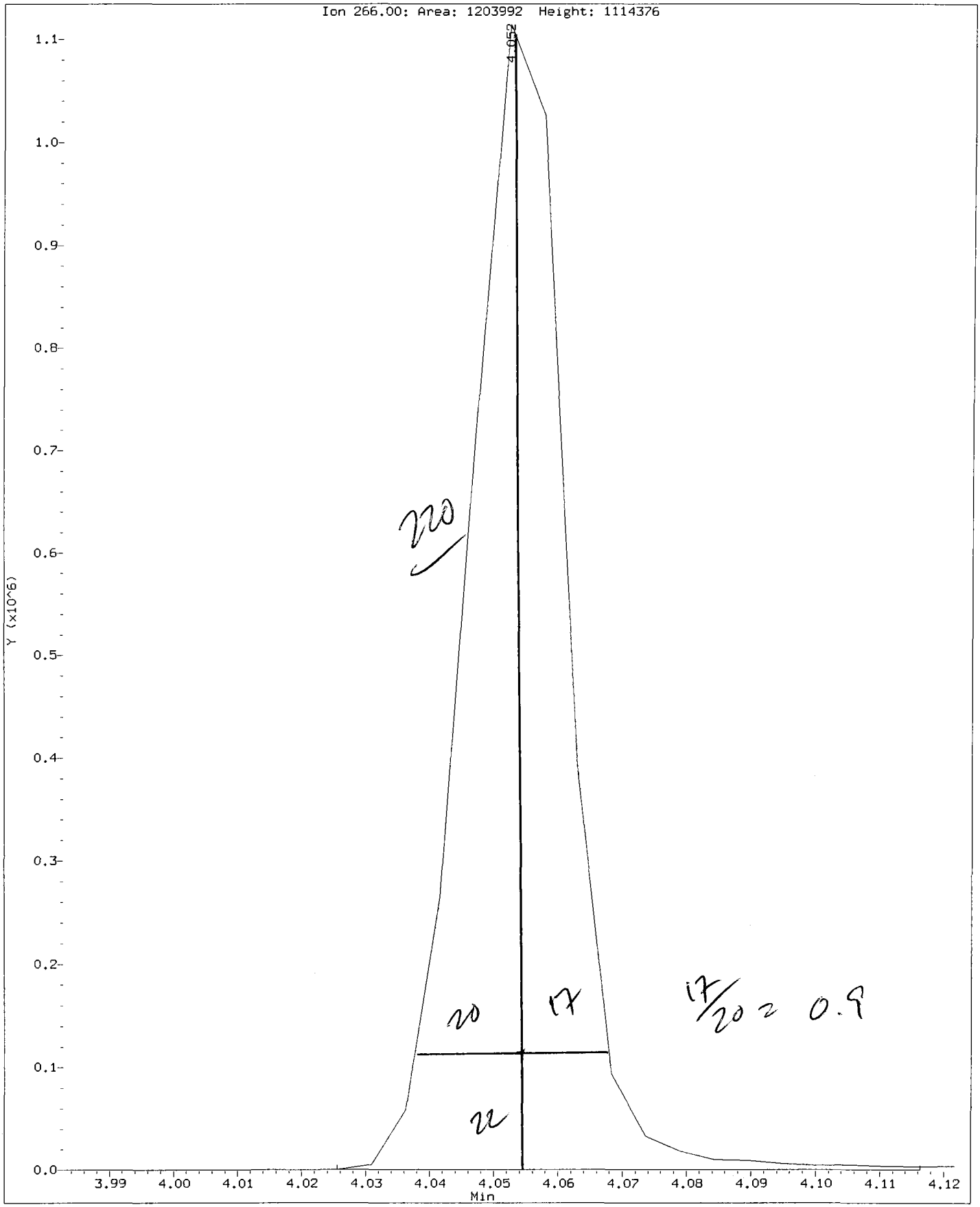
Data File: /chem3/nt2.i/20091118.b/ddt.b/df1118.d
Injection Date: 18-NOV-2009 09:33
Instrument: nt2.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Data File: /chem3/nt2.i/20091118.b/ddt.b/df1118.d
Injection Date: 18-NOV-2009 09:33
Instrument: nt2.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt2.i/20091118.b/ddt.b/df1118.d
Method: /chem3/nt2.i/20091118.b/ddt.b/sw846ddt.m
Analysis Date: 18-NOV-2009 09:33

ARI ID: DFTPP
Misc:
Instrument: nt2.i

COMPOUND	RT	AREA
Pentachlorophenol	4.052	1203992
Benzidine	5.479	509953
4,4'-DDE	5.708	1159
4,4'-DDD	6.029	8581
4,4'-DDT	6.323	1517195

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(\ 1159 + 8581) * 100}{(\ 1159 + 8581 + 1517195)}$$

DDT Percent Breakdown = 0.6 %

Data File: /chem3/nt2.i/20091119.b/df1119.d

Date : 19-NOV-2009 11:04

Client ID:

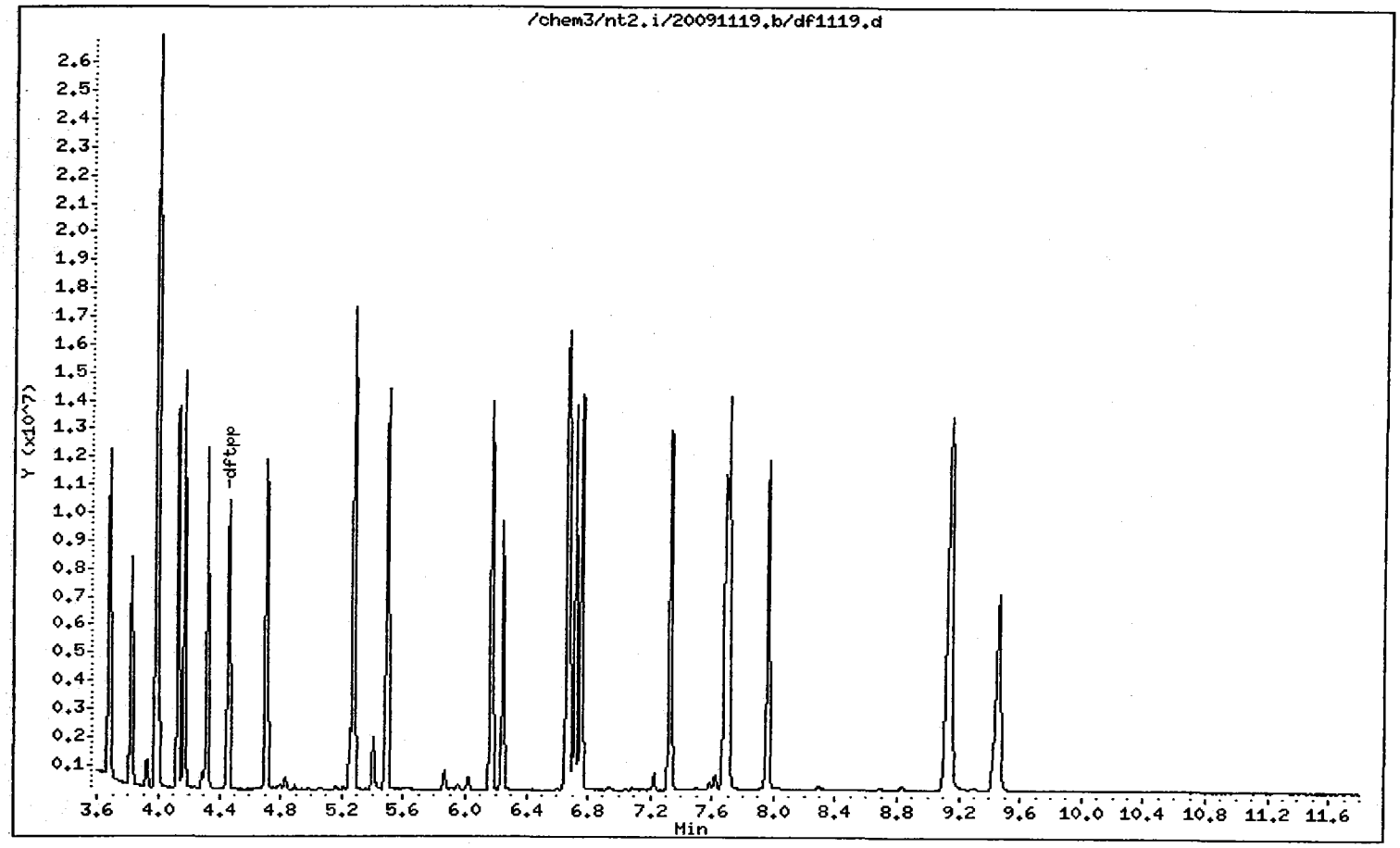
Instrument: nt2.i

Sample Info: DFTPP

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



Data File: /chem3/nt2.i/20091119.b/df1119.d

Date : 19-NOV-2009 11:04

Client ID:

Instrument: nt2.i

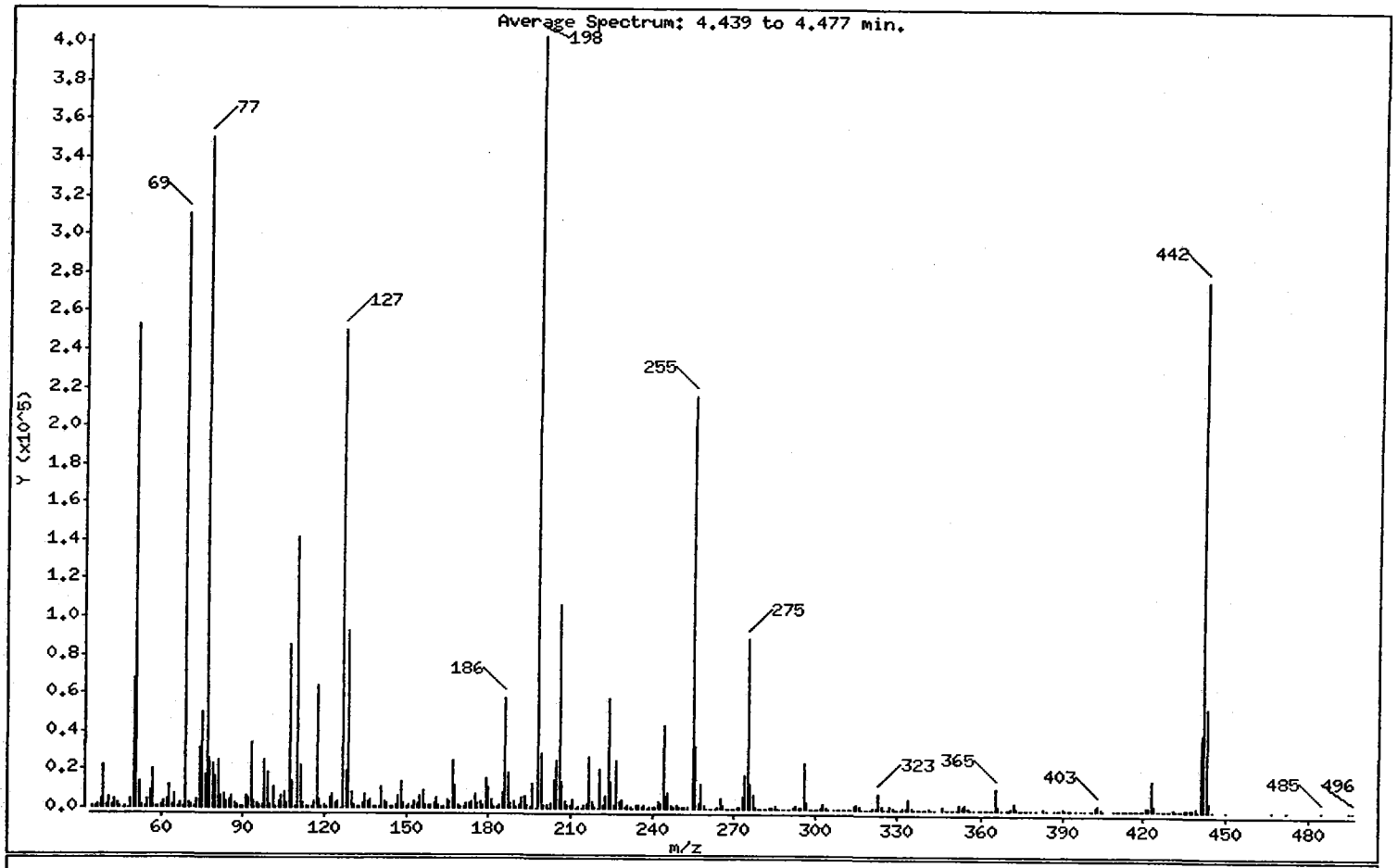
Sample Info: DFTPP

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	62.69
68	Less than 2.00% of mass 69	0.13 (0.17)
69	Mass 69 relative abundance	77.04
70	Less than 2.00% of mass 69	0.68 (0.88)
127	25.00 - 75.00% of mass 198	62.09
197	Less than 1.00% of mass 198	0.03
199	5.00 - 9.00% of mass 198	7.02
275	10.00 - 30.00% of mass 198	22.17
365	Greater than 0.75% of mass 198	2.82
441	Present, but less than mass 443	9.94
442	40.00 - 110.00% of mass 198	68.72
443	15.00 - 24.00% of mass 442	13.39 (19.49)

Data File: /chem3/nt2.i/20091119.b/df1119.d

Date : 19-NOV-2009 11:04

Client ID:

Instrument: nt2.i

Sample Info: DFTPP

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df1119.d

Spectrum: Average Spectrum: 4.439 to 4.477 min.

Location of Maximum: 198.00

Number of points: 400

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	507	136.00	3303	237.00	2021	340.00	98
36.00	663	137.00	4479	238.00	289	341.00	987
37.00	1505	138.00	1090	239.00	1146	342.00	231
38.00	4328	139.00	1321	240.00	894	343.00	70
39.00	22424	140.00	1169	241.00	1003	346.00	1728
40.00	1663	141.00	11423	242.00	4073	347.00	427
41.00	5238	142.00	3556	243.00	3206	348.00	107
42.00	1740	143.00	2805	244.00	43320	349.00	104
43.00	4647	144.00	935	245.00	6125	350.00	95
44.00	2957	145.00	914	246.00	8292	351.00	180
45.00	1357	146.00	1906	247.00	2048	352.00	2594
46.00	237	147.00	6555	248.00	577	353.00	1806
47.00	989	148.00	13697	249.00	1653	354.00	2764
48.00	370	149.00	2747	250.00	779	355.00	580
49.00	4329	150.00	771	251.00	709	356.00	76
50.00	67704	151.00	1966	252.00	711	357.00	67
51.00	252672	152.00	1359	253.00	1238	359.00	195
52.00	13855	153.00	3817	255.00	215680	360.00	54
53.00	2288	154.00	2947	256.00	32208	361.00	186
54.00	1171	155.00	6045	257.00	2336	362.00	94
55.00	4543	156.00	8928	258.00	12872	363.00	107
56.00	9315	157.00	2245	259.00	2105	364.00	92
57.00	20128	158.00	1792	260.00	458	365.00	11382
58.00	1219	159.00	1718	261.00	393	366.00	1548
59.00	581	160.00	2875	262.00	81	367.00	116
60.00	1466	161.00	5219	263.00	244	369.00	169
61.00	3564	162.00	1691	264.00	855	370.00	292
62.00	4525	163.00	704	265.00	5426	371.00	530
63.00	11909	164.00	942	266.00	1477	372.00	4052
64.00	1823	165.00	4374	267.00	301	373.00	1183
65.00	7368	166.00	4165	268.00	453	374.00	58
66.00	1175	167.00	24592	269.00	330	375.00	26
67.00	2688	168.00	11858	270.00	282	376.00	71
68.00	524	169.00	2221	271.00	535	377.00	104
69.00	310464	170.00	1027	272.00	730	378.00	31

Data File: /chem3/nt2.i/20091119.b/df1119.d

Date : 19-NOV-2009 11:04

Client ID:

Instrument: nt2.i

Sample Info: DFTPP

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df1119.d
Spectrum: Average Spectrum: 4.439 to 4.477 min.
Location of Maximum: 198.00
Number of points: 400

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	2731	171.00	984	273.00	6769	380.00	29
71.00	1779	172.00	2463	274.00	17344	383.00	1290
72.00	483	173.00	2993	275.00	89352	384.00	355
73.00	4269	174.00	4004	276.00	12797	387.00	28
74.00	31312	175.00	7741	277.00	7444	388.00	36
75.00	49568	176.00	2425	278.00	1298	389.00	28
76.00	18040	177.00	4138	279.00	291	390.00	724
77.00	350464	178.00	1693	280.00	144	391.00	415
78.00	25688	179.00	15568	281.00	227	392.00	289
79.00	22968	180.00	10696	282.00	217	393.00	75
80.00	16220	181.00	4962	283.00	784	395.00	115
81.00	24736	182.00	1023	284.00	581	397.00	104
82.00	6787	183.00	736	285.00	1587	398.00	33
83.00	7108	184.00	1496	286.00	308	400.00	59
84.00	3709	185.00	8512	287.00	111	401.00	296
85.00	5068	186.00	57328	288.00	89	402.00	1658
86.00	6828	187.00	18320	289.00	316	403.00	2864
87.00	3066	188.00	2317	290.00	290	404.00	888
88.00	1569	189.00	3301	291.00	242	405.00	172
89.00	828	190.00	868	292.00	508	409.00	94
90.00	494	191.00	2134	293.00	1839	410.00	51
91.00	6768	192.00	5105	294.00	531	411.00	34
92.00	5784	193.00	6157	295.00	543	412.00	34
93.00	34392	194.00	1465	296.00	24456	413.00	26
94.00	3464	195.00	1066	297.00	3745	414.00	70
95.00	2356	196.00	12948	298.00	210	415.00	236
96.00	2169	197.00	112	299.00	108	416.00	124
97.00	2140	198.00	403008	300.00	60	417.00	90
98.00	25464	199.00	28280	301.00	398	418.00	45
99.00	18752	200.00	2260	302.00	641	419.00	249
100.00	1789	201.00	2313	303.00	2913	420.00	94
101.00	10708	202.00	447	304.00	958	421.00	2171
102.00	1089	203.00	3056	305.00	116	422.00	2211
103.00	3896	204.00	15221	307.00	25	423.00	15785
104.00	6723	205.00	24800	308.00	385	424.00	2931

Data File: /chem3/nt2.i/20091119.b/df1119.d

Date : 19-NOV-2009 11:04

Client ID:

Instrument: nt2.i

Sample Info: DFTPP

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df1119.d

Spectrum: Average Spectrum: 4.439 to 4.477 min.

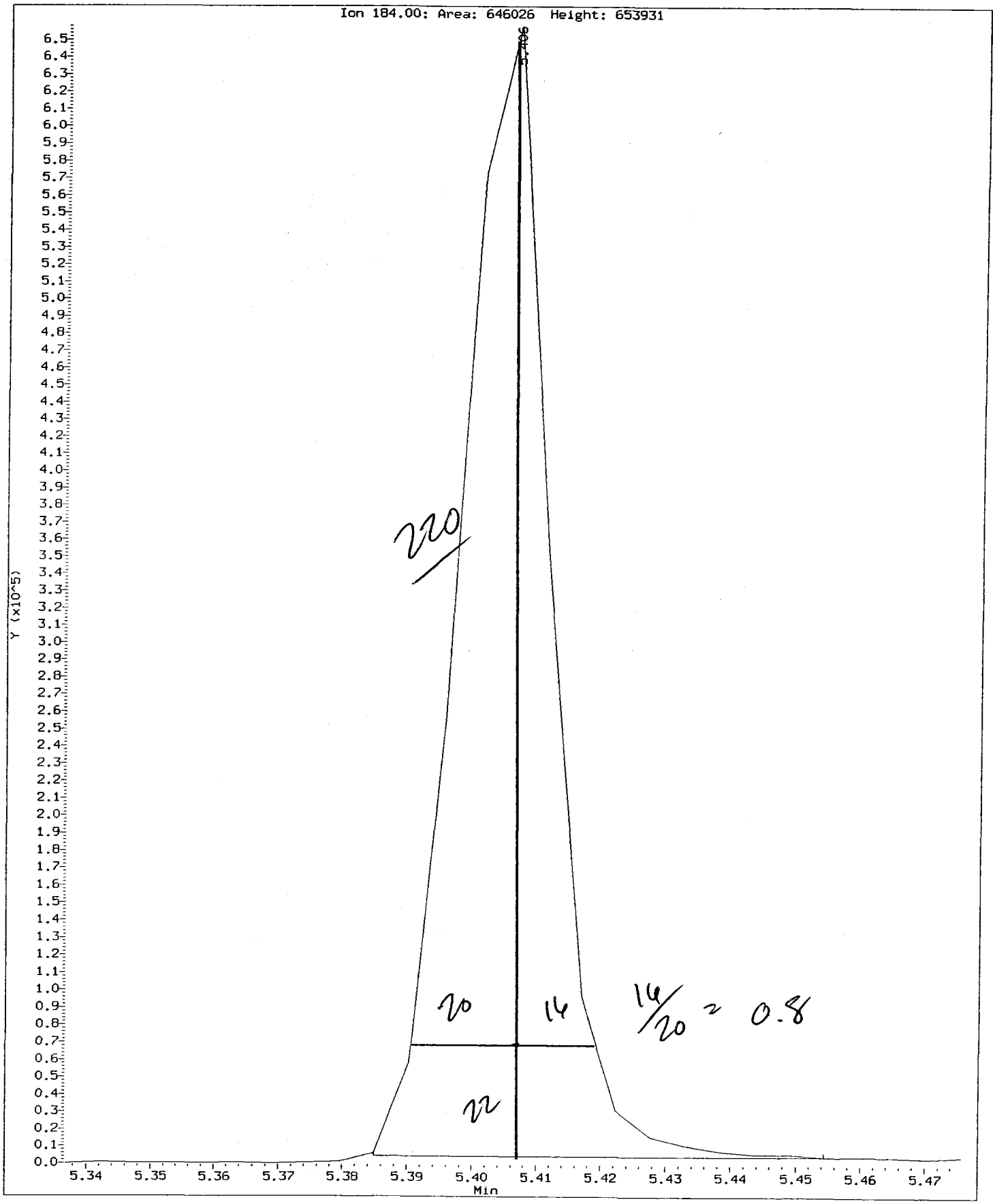
Location of Maximum: 198.00

Number of points: 400

m/z	Y	m/z	Y	m/z	Y	m/z	Y
105.00	8457	206.00	106232	309.00	363	425.00	257
106.00	3233	207.00	13486	310.00	322	426.00	94
107.00	85416	208.00	4010	311.00	77	427.00	107
108.00	14144	209.00	1468	312.00	83	428.00	146
109.00	1139	210.00	2152	313.00	356	429.00	227
110.00	141504	211.00	4507	314.00	1427	430.00	93
111.00	22352	212.00	450	315.00	2913	431.00	521
112.00	2802	213.00	489	316.00	1533	432.00	189
113.00	1246	214.00	371	317.00	422	433.00	217
114.00	697	215.00	1398	318.00	95	434.00	387
115.00	1025	216.00	2326	319.00	167	435.00	538
116.00	4041	217.00	26544	320.00	283	436.00	981
117.00	63800	218.00	3409	321.00	855	437.00	880
118.00	4717	219.00	499	322.00	477	438.00	1092
119.00	1019	220.00	117	323.00	8064	439.00	1494
120.00	1493	221.00	20576	324.00	1528	440.00	210
121.00	1118	222.00	1779	325.00	232	441.00	40072
122.00	5907	223.00	6174	326.00	166	442.00	276928
123.00	7345	224.00	57448	327.00	1636	443.00	53976
124.00	3145	225.00	13653	328.00	830	444.00	4485
125.00	3492	226.00	1470	329.00	209	445.00	187
126.00	148	227.00	24688	330.00	98	450.00	26
127.00	250240	228.00	3435	331.00	89	467.00	30
128.00	19768	229.00	5061	332.00	626	472.00	37
129.00	92592	230.00	815	333.00	1092	485.00	38
130.00	8419	231.00	2227	334.00	5575	495.00	29
131.00	1888	232.00	543	335.00	1347	496.00	31
132.00	1279	233.00	436	336.00	183		
133.00	894	234.00	1632	337.00	73		
134.00	2675	235.00	1863	338.00	78		
135.00	7659	236.00	1345	339.00	172		

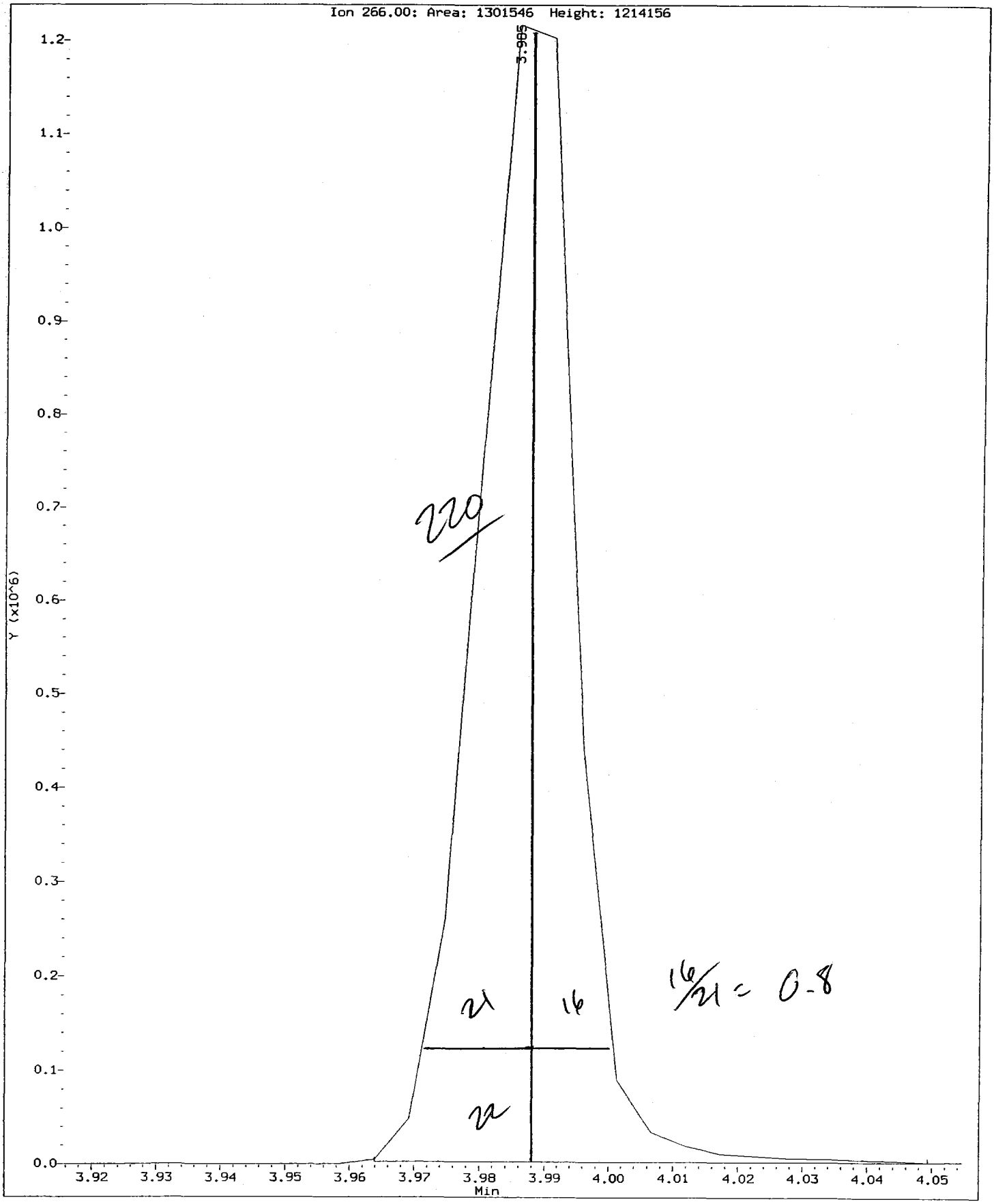
Data File: /chem3/nt2.i/20091119.b/ddt.b/df1119.d
Injection Date: 19-NOV-2009 11:04
Instrument: nt2.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Data File: /chem3/nt2.i/20091119.b/ddt.b/df1119.d
Injection Date: 19-NOV-2009 11:04
Instrument: nt2.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt2.i/20091119.b/ddt.b/df1119.d
Method: /chem3/nt2.i/20091119.b/ddt.b/sw846ddt.m
Analysis Date: 19-NOV-2009 11:04

ARI ID: DFTPP
Misc:
Instrument: nt2.i

COMPOUND	RT	AREA
Pentachlorophenol	3.985	1301546
Benzidine	5.406	646026
4,4'-DDE	5.673	210
4,4'-DDD	5.957	26882
4,4'-DDT	6.245	1674367

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(\ 210 + 26882) * 100}{(\ 210 + 26882 + 1674367)}$$

DDT Percent Breakdown = 1.6 %

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS

Sample ID: MB-111609
METHOD BLANK

Lab Sample ID: MB-111609
LIMS ID: 09-28003
Matrix: Soil
Data Release Authorized:
Reported: 11/20/09

QC Report No: PX44-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: NA
Date Received: NA

Date Extracted: 11/16/09
Date Analyzed: 11/18/09 14:20
Instrument/Analyst: NT2/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	5.0	< 5.0 U
90-12-0	1-Methylnaphthalene	5.0	< 5.0 U
208-96-8	Acenaphthylene	5.0	< 5.0 U
83-32-9	Acenaphthene	5.0	< 5.0 U
86-73-7	Fluorene	5.0	< 5.0 U
85-01-8	Phenanthrene	5.0	< 5.0 U
120-12-7	Anthracene	5.0	< 5.0 U
206-44-0	Fluoranthene	5.0	< 5.0 U
129-00-0	Pyrene	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	5.0	< 5.0 U
218-01-9	Chrysene	5.0	< 5.0 U
205-99-2	Benzo(b)fluoranthene	5.0	< 5.0 U
207-08-9	Benzo(k)fluoranthene	5.0	< 5.0 U
50-32-8	Benzo(a)pyrene	5.0	< 5.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	< 5.0 U
53-70-3	Dibenz(a,h)anthracene	5.0	< 5.0 U
191-24-2	Benzo(g,h,i)perylene	5.0	< 5.0 U
132-64-9	Dibenzofuran	5.0	< 5.0 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	70.3%
d14-Dibenzo(a,h)anthracen	70.3%

Analytical Resources, Inc.

METHOD SW8270D-SIM

Data file : /chem3/nt2.i/20091118.b/111810.d
Lab Smp Id: PX44MBS1 Client Smp ID: PX44MBS1
Inj Date : 18-NOV-2009 14:20
Operator : VTS Inst ID: nt2.i
Smp Info : PX44MBS1
Misc Info : 09-28003
Comment : 1ul Injection
Method : /chem3/nt2.i/20091118.b/simpna.m
Meth Date : 19-Nov-2009 10:30 peter Quant Type: ISTD
Cal Date : 02-NOV-2009 18:35 Cal File: ic110206.d
Als bottle: 10 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	10.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
*	1 Naphthalene-d8	136	5.876	5.872	(1.000)	382150	2.00000	
	2 Naphthalene	128	Compound Not Detected.					
$	3 2-Methylnaphthalene-d10	152	6.933	6.929	(1.180)	215507	2.10816	105.4
	4 2-Methylnaphthalene	142	Compound Not Detected.					
	5 1-Methylnaphthalene	142	Compound Not Detected.					
	7 Acenaphthylene	152	Compound Not Detected.					
*	8 Acenaphthene-d10	164	8.652	8.652	(1.000)	195560	2.00000	
	9 Acenaphthene	153	Compound Not Detected.					
	10 Dibenzofuran	168	Compound Not Detected.					
	11 Fluorene	166	Compound Not Detected.					
*	15 Phenanthrene-d10	188	11.000	10.999	(1.000)	289993	2.00000	
	16 Phenanthrene	178	Compound Not Detected.					
	17 Anthracene	178	Compound Not Detected.					
	19 Fluoranthene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	20 Pyrene	202	Compound Not Detected.					
	22 Benzo(a)anthracene	228	Compound Not Detected.					
*	23 Chrysene-d12	240	15.023	15.019	(1.000)	266922	2.00000	
	24 Chrysene	228	Compound Not Detected.					
	28 Benzo(b)fluoranthene	252	Compound Not Detected.					
	29 Benzo(k)fluoranthene	252	Compound Not Detected.					
	30 Benzo(a)pyrene	252	Compound Not Detected.					
*	31 Perylene-d12	264	16.626	16.626	(1.000)	249411	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
$	32 Dibenz(a,h)anthrancene-d14	292	17.608	17.607	(1.059)	164937	2.11087	105.5
	34 Dibenz(a,h)anthracene	278	Compound Not Detected.					
	35 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: 111810.d
Lab Smp Id: PX44MBS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20091118.b/simpna.m
Misc Info: 09-28003

Calibration Date: 18-NOV-2009
Calibration Time: 09:53
Client Smp ID: PX44MBS1
Level: LOW
Sample Type: Solid

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	353094	176547	706188	382150	8.23
8 Acenaphthene-d10	172751	86376	345502	195560	13.20
15 Phenanthrene-d10	254451	127226	508902	289993	13.97
23 Chrysene-d12	238407	119204	476814	266922	11.96
31 Perylene-d12	207102	103551	414204	249411	20.43

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	5.87	5.37	6.37	5.88	0.07
8 Acenaphthene-d10	8.65	8.15	9.15	8.65	0.01
15 Phenanthrene-d10	11.00	10.50	11.50	11.00	0.01
23 Chrysene-d12	15.02	14.52	15.52	15.02	0.03
31 Perylene-d12	16.63	16.13	17.13	16.63	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA
Client SDG: PX44
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: PX44MBS1
Client Smp ID: PX44MBS1
Level: LOW
Operator: VTS
Data Type: MS DATA
SampleType: BLANK
SpikeList File: soillcs.spk
Quant Type: ISTD
Sublist File: pna1mn.sub
Method File: /chem3/nt2.i/20091118.b/simpna.m
Misc Info: 09-28003

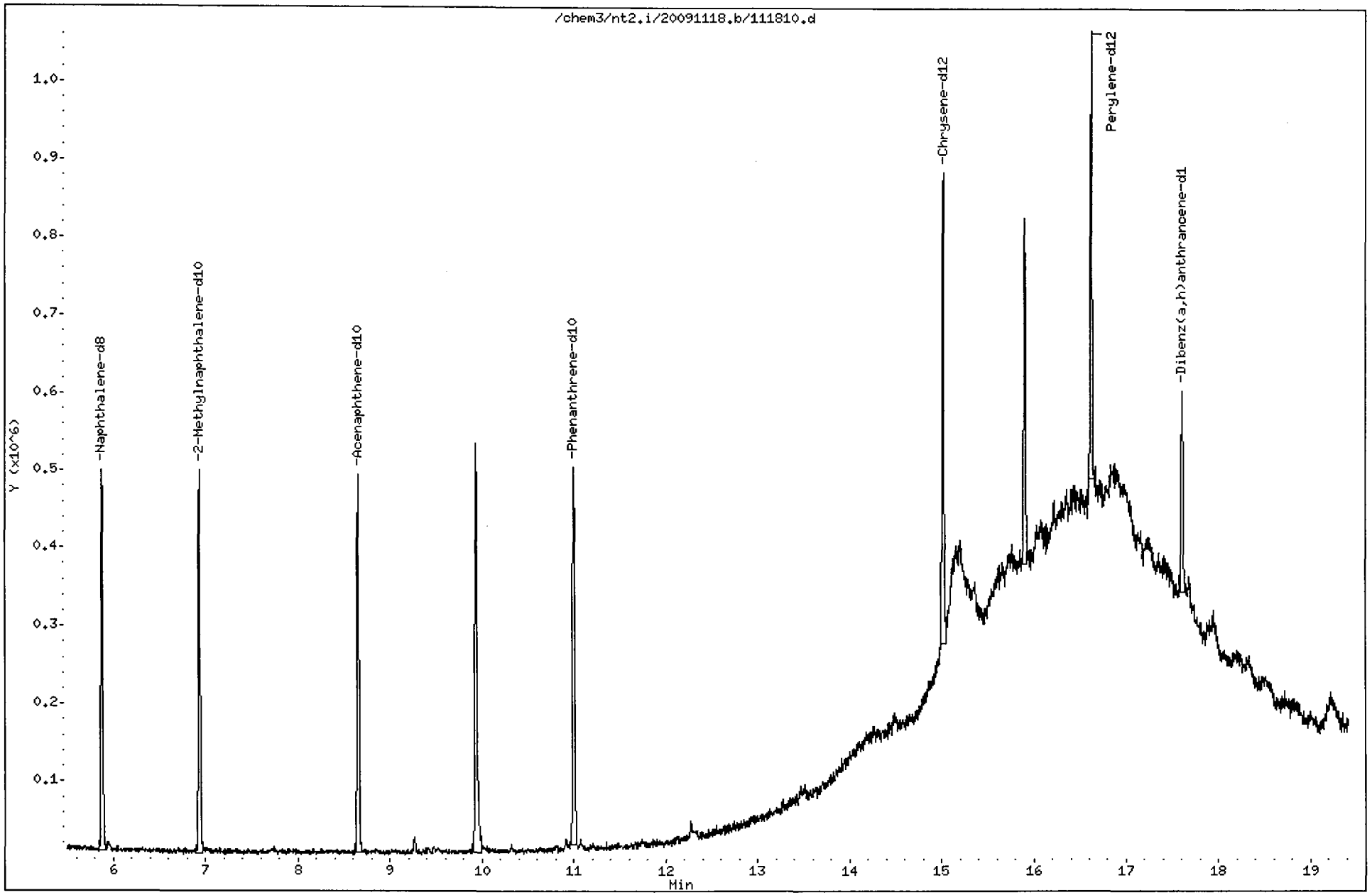
SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
2 Naphthalene	150.0	0.000	*	37-100
4 2-Methylnaphthale	150.0	0.000	*	37-100
5 1-Methylnaphthale	150.0	0.000	*	30-160
7 Acenaphthylene	150.0	0.000	*	35-100
9 Acenaphthene	150.0	0.000	*	39-100
10 Dibenzofuran	150.0	0.000	*	39-100
11 Fluorene	150.0	0.000	*	42-100
16 Phenanthrene	150.0	0.000	*	47-100
17 Anthracene	150.0	0.000	*	41-106
19 Fluoranthene	150.0	0.000	*	52-109
20 Pyrene	150.0	0.000	*	47-111
22 Benzo(a)anthracene	150.0	0.000	*	47-114
24 Chrysene	150.0	0.000	*	51-106
28 Benzo(b)fluoranth	150.0	0.000	*	52-114
29 Benzo(k)fluoranth	150.0	0.000	*	48-117
30 Benzo(a)pyrene	150.0	0.000	*	44-111
33 Indeno(1,2,3-cd)p	150.0	0.000	*	41-114
34 Dibenz(a,h)anthra	150.0	0.000	*	42-116
35 Benzo(g,h,i)peryl	150.0	0.000	*	37-115

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	150.0	105.4	70.27	34-100
$ 32 Dibenz(a,h)anthran	150.0	105.5	70.36	10-117

Data File: /chem3/nt2.i/20091118.b/111810.d
Date : 18-NOV-2009 14:20
Client ID: PX44MBS1
Sample Info: PX44MBS1
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25



PX44-00206

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS

Sample ID: AHA-01-3NW(0-2)
MATRIX SPIKE

Lab Sample ID: PX44A
LIMS ID: 09-28003
Matrix: Soil
Data Release Authorized:
Reported: 11/20/09

QC Report No: PX44-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 11/16/09
Date Analyzed: 11/18/09 15:31
Instrument/Analyst: NT2/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 11.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 10.7%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.6	---
91-57-6	2-Methylnaphthalene	4.6	---
90-12-0	1-Methylnaphthalene	4.6	---
208-96-8	Acenaphthylene	4.6	---
83-32-9	Acenaphthene	4.6	---
86-73-7	Fluorene	4.6	---
85-01-8	Phenanthrene	4.6	---
120-12-7	Anthracene	4.6	---
206-44-0	Fluoranthene	4.6	---
129-00-0	Pyrene	4.6	---
56-55-3	Benzo(a)anthracene	4.6	---
218-01-9	Chrysene	4.6	---
205-99-2	Benzo(b)fluoranthene	4.6	---
207-08-9	Benzo(k)fluoranthene	4.6	---
50-32-8	Benzo(a)pyrene	4.6	---
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	---
53-70-3	Dibenz(a,h)anthracene	4.6	---
191-24-2	Benzo(g,h,i)perylene	4.6	---
132-64-9	Dibenzofuran	4.6	---

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	69.3%
d14-Dibenzo(a,h)anthracen	75.3%

Analytical Resources, Inc.

METHOD SW8270D-SIM

Data file : /chem3/nt2.i/20091118.b/111813.d
Lab Smp Id: PX44AMS Client Smp ID: AHA-01-3NW(0-2) MS
Inj Date : 18-NOV-2009 15:31
Operator : VTS Inst ID: nt2.i
Smp Info : PX44AMS
Misc Info : 09-28003
Comment : 1ul Injection
Method : /chem3/nt2.i/20091118.b/simpna.m
Meth Date : 18-Nov-2009 10:40 peter Quant Type: ISTD
Cal Date : 02-NOV-2009 18:35 Cal File: ic110206.d
Als bottle: 13 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

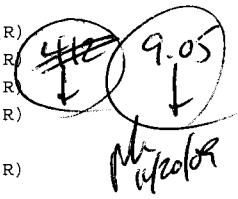
Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	12.30000	Weight of sample extracted (g)
M	10.70000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	1 Naphthalene-d8	136	5.877	5.872	(1.000)	396848	2.00000	
	2 Naphthalene	128	5.906	5.903	(1.005)	477019	2.42001	110.2
$	3 2-Methylnaphthalene-d10	152	6.931	6.929	(1.179)	220283	2.07507	94.46
	4 2-Methylnaphthalene	142	6.982	6.979	(1.188)	262323	2.22355	101.2
	5 1-Methylnaphthalene	142	7.149	7.143	(1.216)	256633	2.20634	100.4
	7 Acenaphthylene	152	8.405	8.399	(0.971)	769405	4.29614	195.6(R)
*	8 Acenaphthene-d10	164	8.654	8.652	(1.000)	203925	2.00000	
	9 Acenaphthene	153	8.701	8.702	(1.005)	250999	2.28686	104.1
	10 Dibenzofuran	168	8.963	8.958	(1.036)	352897	2.36778	107.8
	11 Fluorene	166	9.512	9.510	(1.099)	359544	2.92574	133.2
*	15 Phenanthrene-d10	188	10.998	10.999	(1.000)	301314	2.00000	
	16 Phenanthrene	178	11.036	11.037	(1.003)	1408822	8.13572	370.3(R)
	17 Anthracene	178	11.106	11.104	(1.010)	620517	3.62169	164.9(R)
	19 Fluoranthene	202	12.961	12.953	(1.178)	3112767	17.3670	790.6(R)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	13.296	13.287	(0.885)	4242407	21.0436	957.9(R)
	22 Benzo(a)anthracene	228	15.012	15.001	(0.999)	2053230	11.2894	513.9(R)
*	23 Chrysene-d12	240	15.028	15.019	(1.000)	312479	2.00000	
	24 Chrysene	228	15.063	15.054	(1.002)	2239363	12.4220	565.5(R)
	28 Benzo(b)fluoranthene	252	16.287	16.256	(0.979)	3190023	19.0815	868.6(R)
	29 Benzo(k)fluoranthene	252	16.287	16.282	(0.979)	3190023	17.0692	777.0(R)
	30 Benzo(a)pyrene	252	16.584	16.572	(0.997)	1935245	13.7333	625.2(R)
*	31 Perylene-d12	264	16.634	16.626	(1.000)	281752	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.638	17.626	(1.060)	957060	6.74009	306.8(R)
$	32 Dibenz(a,h)anthrancene-d14	292	17.619	17.607	(1.059)	199367	2.25863	102.8
	34 Dibenz(a,h)anthracene	278	17.647	17.639	(1.061)	485280	4.41190	200.8(R)
	35 Benzo(g,h,i)perylene	276	17.899	17.885	(1.076)	785844	6.66396	303.4(R)



QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: 111813.d
Lab Smp Id: PX44AMS
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20091118.b/simpna.m
Misc Info: 09-28003

Calibration Date: 18-NOV-2009
Calibration Time: 09:53
Client Smp ID: AHA-01-3NW(0-2)
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	353094	176547	706188	396848	12.39
8 Acenaphthene-d10	172751	86376	345502	203925	18.05
15 Phenanthrene-d10	254451	127226	508902	301314	18.42
23 Chrysene-d12	238407	119204	476814	312479	31.07
31 Perylene-d12	207102	103551	414204	281752	36.05

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	5.87	5.37	6.37	5.88	0.09
8 Acenaphthene-d10	8.65	8.15	9.15	8.65	0.03
15 Phenanthrene-d10	11.00	10.50	11.50	11.00	-0.01
23 Chrysene-d12	15.02	14.52	15.52	15.03	0.06
31 Perylene-d12	16.63	16.13	17.13	16.63	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA
Sample Matrix: SOLID
Lab Smp Id: PX44AMS
Level: LOW
Data Type: MS DATA
SpikeList File: soillcs.spk
Sublist File: pna1mn.sub
Method File: /chem3/nt2.i/20091118.b/simpna.m
Misc Info: 09-28003

Client SDG: PX44
Fraction: SV
Client Smp ID: AHA-01-3NW(0-2) MS
Operator: VTS
SampleType: MS
Quant Type: ISTD

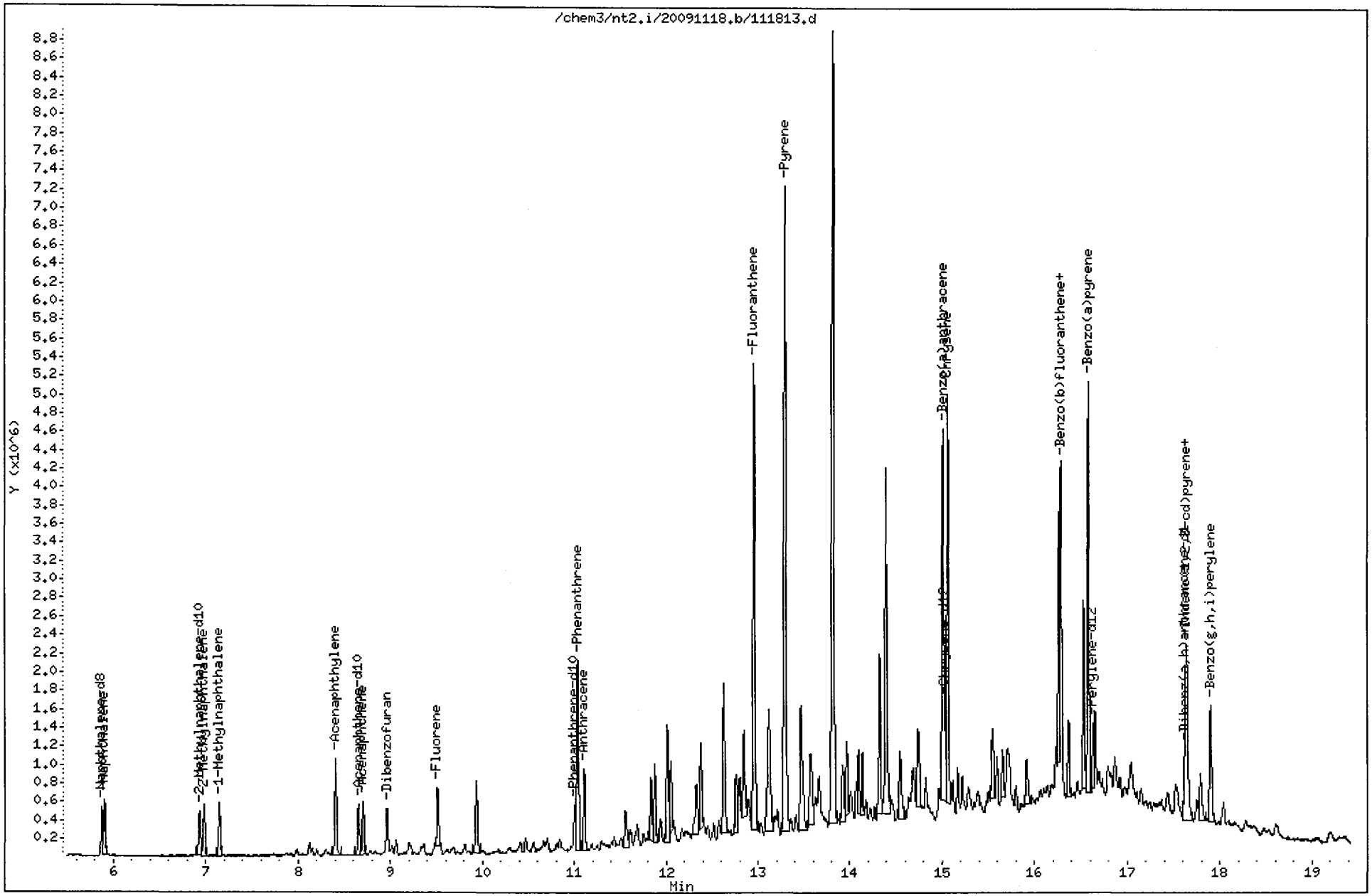
SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
2 Naphthalene	136.6	110.2	80.67	37-100
4 2-Methylnaphthalen	136.6	101.2	74.12	37-100
5 1-Methylnaphthalen	136.6	100.4	73.54	30-160
7 Acenaphthylene	136.6	195.6	143.20*	35-100
9 Acenaphthene	136.6	104.1	76.23	39-100
10 Dibenzofuran	136.6	107.8	78.93	39-100
11 Fluorene	136.6	133.2	97.52	42-100
16 Phenanthrene	136.6	370.3	271.19*	47-100
17 Anthracene	136.6	164.9	120.72*	41-106
19 Fluoranthene	136.6	790.6	578.90*	52-109
20 Pyrene	136.6	957.9	701.45*	47-111
22 Benzo(a)anthracene	136.6	513.9	376.31*	47-114
24 Chrysene	136.6	565.5	414.07*	51-106
28 Benzo(b)fluoranthe	136.6	868.6	636.05*	52-114
29 Benzo(k)fluoranthe	136.6	777.0	568.97*	48-117
30 Benzo(a)pyrene	136.6	625.2	457.78*	44-111
33 Indeno(1,2,3-cd)py	136.6	306.8	224.67*	41-114
34 Dibenz(a,h)anthrac	136.6	200.8	147.06*	42-116
35 Benzo(g,h,i)peryle	136.6	303.4	222.13*	37-115

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	136.6	94.46	69.17	34-100
$ 32 Dibenz(a,h)anthran	136.6	102.8	75.29	10-117

Data File: /chem3/nt2.i/20091118.b/111813.d
Date : 18-NOV-2009 15:31
Client ID: AHA-01-3NW(0-2) MS
Sample Info: PX44AMS
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25



PX44: 00212

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: AHA-01-3NW(0-2)
MATRIX SPIKE DUPLICATE

Lab Sample ID: PX44A
LIMS ID: 09-28003
Matrix: Soil
Data Release Authorized:
Reported: 11/20/09

QC Report No: PX44-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 11/16/09
Date Analyzed: 11/18/09 15:55
Instrument/Analyst: NT2/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 11.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 10.7%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.6	---
91-57-6	2-Methylnaphthalene	4.6	---
90-12-0	1-Methylnaphthalene	4.6	---
208-96-8	Acenaphthylene	4.6	---
83-32-9	Acenaphthene	4.6	---
86-73-7	Fluorene	4.6	---
85-01-8	Phenanthrene	4.6	---
120-12-7	Anthracene	4.6	---
206-44-0	Fluoranthene	4.6	---
129-00-0	Pyrene	4.6	---
56-55-3	Benzo(a)anthracene	4.6	---
218-01-9	Chrysene	4.6	---
205-99-2	Benzo(b)fluoranthene	4.6	---
207-08-9	Benzo(k)fluoranthene	4.6	---
50-32-8	Benzo(a)pyrene	4.6	---
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	---
53-70-3	Dibenz(a,h)anthracene	4.6	---
191-24-2	Benzo(g,h,i)perylene	4.6	---
132-64-9	Dibenzofuran	4.6	---

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	58.3%
d14-Dibenzo(a,h)anthracen	72.3%

Analytical Resources, Inc.

METHOD SW8270D-SIM

Data file : /chem3/nt2.i/20091118.b/111814.d
Lab Smp Id: PX44AMSD Client Smp ID: AHA-01-3NW(0-2) MSD
Inj Date : 18-NOV-2009 15:55
Operator : VTS Inst ID: nt2.i
Smp Info : PX44AMSD
Misc Info : 09-28003
Comment : 1ul Injection
Method : /chem3/nt2.i/20091118.b/simpna.m
Meth Date : 18-Nov-2009 10:40 peter Quant Type: ISTD
Cal Date : 02-NOV-2009 18:35 Cal File: ic110206.d
Als bottle: 14 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

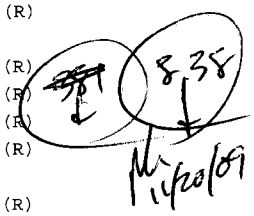
Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	12.30000	Weight of sample extracted (g)
M	10.70000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	1 Naphthalene-d8	136	5.877	5.872	(1.000)	402547	2.00000	
	2 Naphthalene	128	5.908	5.903	(1.005)	397065	1.98587	90.40
$	3 2-Methylnaphthalene-d10	152	6.934	6.929	(1.180)	188383	1.74945	79.64
	4 2-Methylnaphthalene	142	6.981	6.979	(1.188)	219462	1.83391	83.48
	5 1-Methylnaphthalene	142	7.145	7.143	(1.216)	215777	1.82883	83.25
	7 Acenaphthylene	152	8.404	8.399	(0.972)	683565	3.84848	175.2(R)
*	8 Acenaphthene-d10	164	8.651	8.652	(1.000)	202248	2.00000	
	9 Acenaphthene	153	8.701	8.702	(1.006)	220795	2.02835	92.33
	10 Dibenzofuran	168	8.963	8.958	(1.036)	322761	2.18354	99.40
	11 Fluorene	166	9.512	9.510	(1.100)	307625	2.52401	114.9
*	15 Phenanthrene-d10	188	11.001	10.999	(1.000)	295655	2.00000	
	16 Phenanthrene	178	11.036	11.037	(1.003)	1137708	6.69583	304.8(R)
	17 Anthracene	178	11.105	11.104	(1.009)	551513	3.28056	149.3(R)
	19 Fluoranthene	202	12.961	12.953	(1.178)	2542179	14.4550	658.0(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
20 Pyrene	202	13.295	13.287	(0.885)	3636481	18.6208	847.6(R)
22 Benzo(a)anthracene	228	15.012	15.001	(0.999)	1924395	10.9228	497.2(R)
* 23 Chrysene-d12	240	15.031	15.019	(1.000)	302700	2.00000	
24 Chrysene	228	15.062	15.054	(1.002)	2089282	11.9639	544.6(R)
28 Benzo(b)fluoranthene	252	16.287	16.256	(0.979)	2905399	17.6730	804.5(R)
29 Benzo(k)fluoranthene	252	16.287	16.282	(0.979)	2905399	15.8092	719.7(R)
30 Benzo(a)pyrene	252	16.583	16.572	(0.997)	1817070	13.1128	596.9(R)
* 31 Perylene-d12	264	16.634	16.626	(1.000)	277065	2.00000	
33 Indeno(1,2,3-cd)pyrene	276	17.637	17.626	(1.060)	893129	6.39626	291.2(R)
$ 32 Dibenz(a,h)anthrancene-d14	292	17.618	17.607	(1.059)	188451	2.17108	98.83(M)
34 Dibenz(a,h)anthracene	278	17.647	17.639	(1.061)	447640	4.13854	188.4(R)
35 Benzo(g,h,i)perylene	276	17.899	17.885	(1.076)	723926	6.24274	284.2(R)



QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: 111814.d
Lab Smp Id: PX44AMSD
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20091118.b/simpna.m
Misc Info: 09-28003

Calibration Date: 18-NOV-2009
Calibration Time: 09:53
Client Smp ID: AHA-01-3NW(0-2)
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	353094	176547	706188	402547	14.01
8 Acenaphthene-d10	172751	86376	345502	202248	17.07
15 Phenanthrene-d10	254451	127226	508902	295655	16.19
23 Chrysene-d12	238407	119204	476814	302700	26.97
31 Perylene-d12	207102	103551	414204	277065	33.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	5.87	5.37	6.37	5.88	0.09
8 Acenaphthene-d10	8.65	8.15	9.15	8.65	-0.01
15 Phenanthrene-d10	11.00	10.50	11.50	11.00	0.02
23 Chrysene-d12	15.02	14.52	15.52	15.03	0.08
31 Perylene-d12	16.63	16.13	17.13	16.63	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA
Sample Matrix: SOLID
Lab Smp Id: PX44AMSD
Level: LOW
Data Type: MS DATA
SpikeList File: soillcs.spk
Sublist File: pna1mn.sub
Method File: /chem3/nt2.i/20091118.b/simpna.m
Misc Info: 09-28003

Client SDG: PX44
Fraction: SV
Client Smp ID: AHA-01-3NW(0-2) MSD
Operator: VTS
SampleType: MS
Quant Type: ISTD

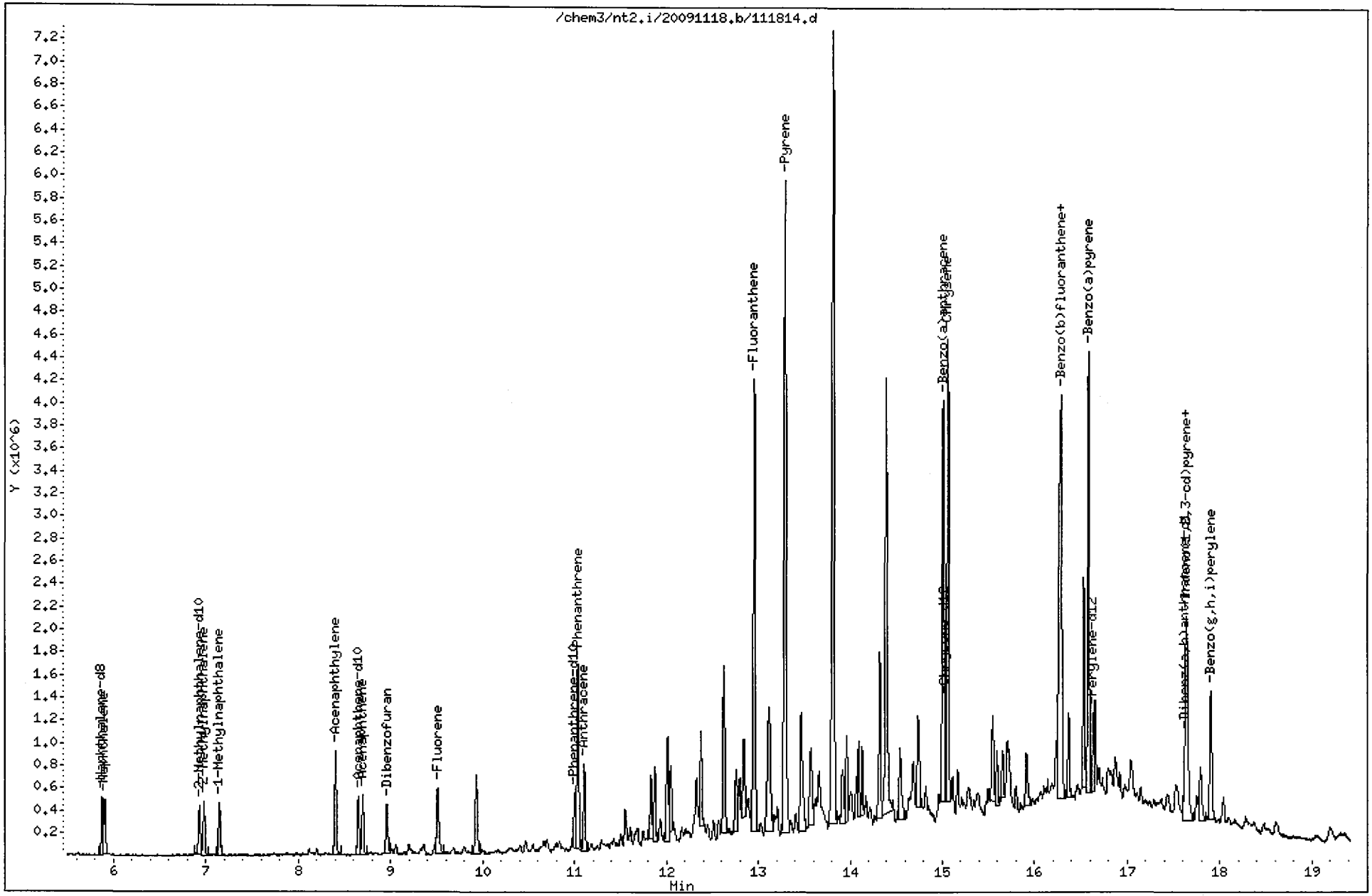
	SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
2	Naphthalene	136.6	90.40	66.20	37-100
4	2-Methylnaphthalen	136.6	83.48	61.13	37-100
5	1-Methylnaphthalen	136.6	83.25	60.96	30-160
7	Acenaphthylene	136.6	175.2	128.28*	35-100
9	Acenaphthene	136.6	92.33	67.61	39-100
10	Dibenzofuran	136.6	99.40	72.78	39-100
11	Fluorene	136.6	114.9	84.13	42-100
16	Phenanthrene	136.6	304.8	223.19*	47-100
17	Anthracene	136.6	149.3	109.35*	41-106
19	Fluoranthene	136.6	658.0	481.83*	52-109
20	Pyrene	136.6	847.6	620.69*	47-111
22	Benzo(a)anthracene	136.6	497.2	364.09*	47-114
24	Chrysene	136.6	544.6	398.80*	51-106
28	Benzo(b)fluoranthe	136.6	804.5	589.10*	52-114
29	Benzo(k)fluoranthe	136.6	719.7	526.97*	48-117
30	Benzo(a)pyrene	136.6	596.9	437.09*	44-111
33	Indeno(1,2,3-cd)py	136.6	291.2	213.21*	41-114
34	Dibenz(a,h)anthrac	136.6	188.4	137.95*	42-116
35	Benzo(g,h,i)peryle	136.6	284.2	208.09*	37-115

	SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3	2-Methylnaphthalen	136.6	79.64	58.31	34-100
$ 32	Dibenz(a,h)anthran	136.6	98.83	72.37	10-117

Data File: /chem3/nt2.i/20091118.b/111814.d
Date : 18-NOV-2009 15:55
Client ID: AHA-01-3NW(0-2) MSD
Sample Info: PX44AMSD
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25



Analytical Resources, Inc.

METHOD SW8270D-SIM

Data file : /chem3/nt2.i/20091118.b/111811.d
Lab Smp Id: PX44LCSS1 Client Smp ID: PX44LCSS1
Inj Date : 18-NOV-2009 14:43
Operator : VTS Inst ID: nt2.i
Smp Info : PX44LCSS1
Misc Info : 09-28003
Comment : 1ul Injection
Method : /chem3/nt2.i/20091118.b/simpna.m
Meth Date : 18-Nov-2009 10:40 peter Quant Type: ISTD
Cal Date : 02-NOV-2009 18:35 Cal File: ic110206.d
Als bottle: 11 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	10.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	1 Naphthalene-d8	136	5.875	5.872	(1.000)	392323	2.00000	
	2 Naphthalene	128	5.907	5.903	(1.005)	398691	2.04597	102.3
$	3 2-Methylnaphthalene-d10	152	6.929	6.929	(1.179)	213656	2.03586	101.8
	4 2-Methylnaphthalene	142	6.980	6.979	(1.188)	238160	2.04202	102.1
	5 1-Methylnaphthalene	142	7.147	7.143	(1.216)	235997	2.05233	102.6
	7 Acenaphthylene	152	8.403	8.399	(0.971)	370101	2.13007	106.5
*	8 Acenaphthene-d10	164	8.652	8.652	(1.000)	197843	2.00000	
	9 Acenaphthene	153	8.700	8.702	(1.005)	223418	2.09815	104.9
	10 Dibenzofuran	168	8.958	8.958	(1.035)	324800	2.24626	112.3
	11 Fluorene	166	9.510	9.510	(1.099)	269674	2.26189	113.1
*	15 Phenanthrene-d10	188	10.997	10.999	(1.000)	297326	2.00000	
	16 Phenanthrene	178	11.035	11.037	(1.003)	379323	2.21991	111.0
	17 Anthracene	178	11.104	11.104	(1.010)	383125	2.26613	113.3
	19 Fluoranthene	202	12.953	12.953	(1.178)	434433	2.45634	122.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	20 Pyrene	202	13.284	13.287	(0.884)	440260	2.40932	120.5
	22 Benzo(a)anthracene	228	15.001	15.001	(0.999)	405093	2.45734	122.9
*	23 Chrysene-d12	240	15.023	15.019	(1.000)	283232	2.00000	
	24 Chrysene	228	15.058	15.054	(1.002)	395935	2.42309	121.2
	28 Benzo(b)fluoranthene	252	16.260	16.256	(0.978)	400015	2.67751	133.9
	29 Benzo(k)fluoranthene	252	16.282	16.282	(0.979)	370256	2.21696	110.8
	30 Benzo(a)pyrene	252	16.572	16.572	(0.997)	325616	2.58571	129.3
*	31 Perylene-d12	264	16.626	16.626	(1.000)	251786	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	17.626	17.626	(1.060)	275351	2.16995	108.5
$	32 Dibenz(a,h)anthrancene-d14	292	17.611	17.607	(1.059)	180443	2.28753	114.4
	34 Dibenz(a,h)anthracene	278	17.642	17.639	(1.061)	233842	2.37898	118.9
	35 Benzo(g,h,i)perylene	276	17.891	17.885	(1.076)	205242	1.94759	97.38

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: 111811.d
Lab Smp Id: PX44LCSS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20091118.b/simpna.m
Misc Info: 09-28003

Calibration Date: 18-NOV-2009
Calibration Time: 09:53
Client Smp ID: PX44LCSS1
Level: LOW
Sample Type: Solid

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	353094	176547	706188	392323	11.11
8 Acenaphthene-d10	172751	86376	345502	197843	14.52
15 Phenanthrene-d10	254451	127226	508902	297326	16.85
23 Chrysene-d12	238407	119204	476814	283232	18.80
31 Perylene-d12	207102	103551	414204	251786	21.58

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	5.87	5.37	6.37	5.88	0.06
8 Acenaphthene-d10	8.65	8.15	9.15	8.65	0.00
15 Phenanthrene-d10	11.00	10.50	11.50	11.00	-0.02
23 Chrysene-d12	15.02	14.52	15.52	15.02	0.02
31 Perylene-d12	16.63	16.13	17.13	16.63	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA
Sample Matrix: SOLID
Lab Smp Id: PX44LCSS1
Level: LOW
Data Type: MS DATA
SpikeList File: soillcs.spk
Sublist File: pna1mn.sub
Method File: /chem3/nt2.i/20091118.b/simpna.m
Misc Info: 09-28003

Client SDG: PX44
Fraction: SV
Client Smp ID: PX44LCSS1
Operator: VTS
SampleType: LCS
Quant Type: ISTD

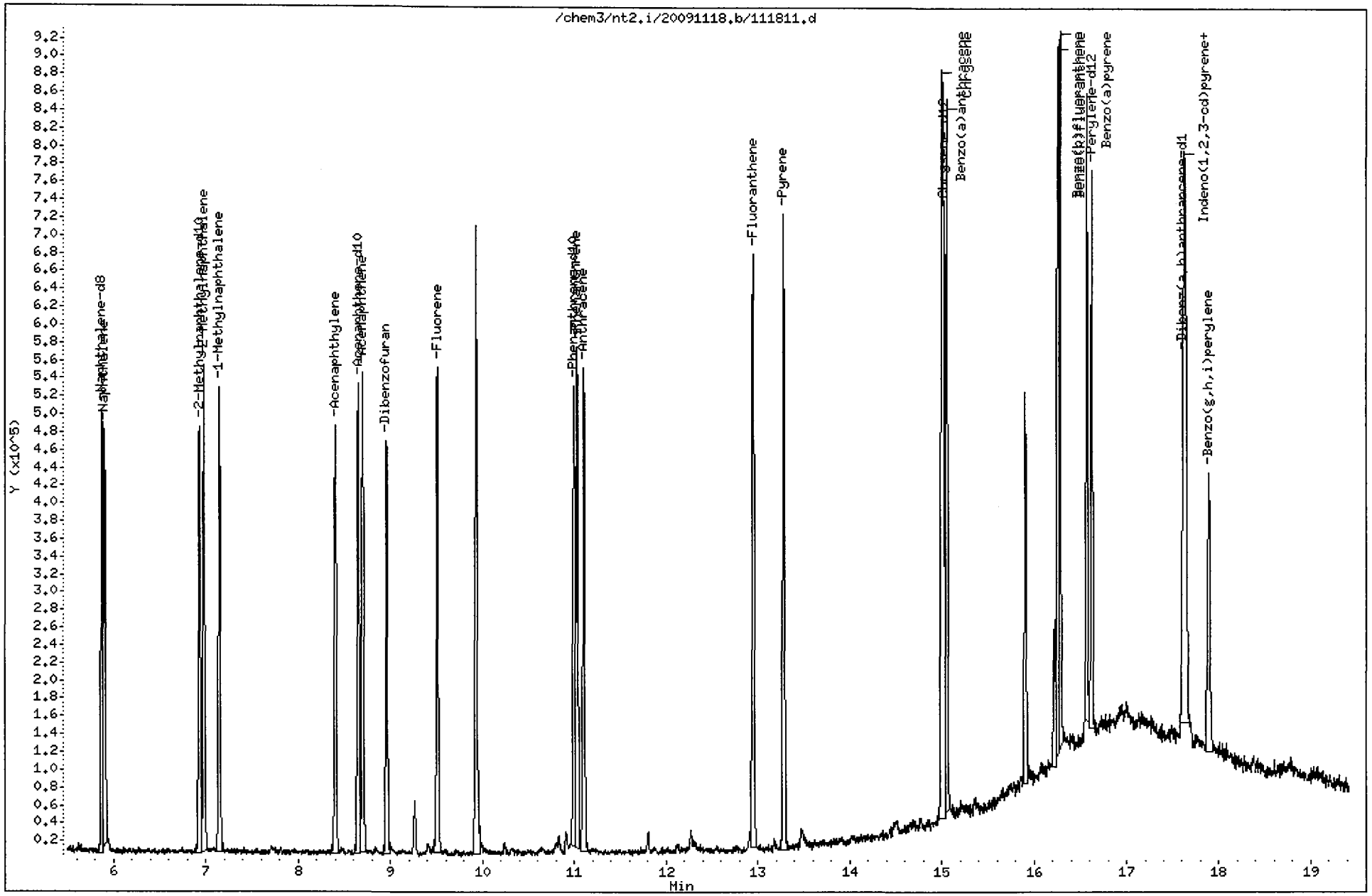
	SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
2	Naphthalene	150.0	102.3	68.20	37-100
4	2-Methylnaphthalen	150.0	102.1	68.07	37-100
5	1-Methylnaphthalen	150.0	102.6	68.41	30-160
7	Acenaphthylene	150.0	106.5	71.00	35-100
9	Acenaphthene	150.0	104.9	69.94	39-100
10	Dibenzofuran	150.0	112.3	74.88	39-100
11	Fluorene	150.0	113.1	75.40	42-100
16	Phenanthrene	150.0	111.0	74.00	47-100
17	Anthracene	150.0	113.3	75.54	41-106
19	Fluoranthene	150.0	122.8	81.88	52-109
20	Pyrene	150.0	120.5	80.31	47-111
22	Benzo(a)anthracene	150.0	122.9	81.91	47-114
24	Chrysene	150.0	121.2	80.77	51-106
28	Benzo(b)fluoranthe	150.0	133.9	89.25	52-114
29	Benzo(k)fluoranthe	150.0	110.8	73.90	48-117
30	Benzo(a)pyrene	150.0	129.3	86.19	44-111
33	Indeno(1,2,3-cd)py	150.0	108.5	72.33	41-114
34	Dibenz(a,h)anthrac	150.0	118.9	79.30	42-116
35	Benzo(g,h,i)peryle	150.0	97.38	64.92	37-115

	SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3	2-Methylnaphthalen	150.0	101.8	67.86	34-100
$ 32	Dibenz(a,h)anthran	150.0	114.4	76.25	10-117

Data File: /chem3/nt2.i/20091118.b/111811.d
Date : 18-NOV-2009 14:43
Client ID: PX44LCSS1
Sample Info: PX44LCSS1
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25



PX44:00223

SIM Semivolatile Analysis
Extraction Bench Sheets/Run Logs

prepared
for

Anchor QEA

Project: Eddon Boatyard

ARI JOB NO: PX44

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

SIM PNA (Soil) Sediment
Microwave (3546) (SOP # 397S)

Preparation Test SIM PNA # 5 (5ppb)

ARI Job No(s) PX44 Batch set up by: ~~JH~~

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted	Turbo Vap (1) 2 3 **Exchange 5mL Hexane**	**(Opt)** Silica Gel Clean **(1:1)** (Y) N	TurboVap (1) 2 3	Final Effective Volume	Volume to Lab	Comments
	PX44 MBS	Date 11-16-09	10.00g				0.5mL	0.5mL	
	SBS								
	~~SBS Dup.~~								
	PX44 A	Verified	12.15						
	Am3		12.34						
	Am3d		12.27						
	B		12.84						
Analyst/Date:	AC 11-16-09			Sep 18/09					

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	**B_1**	**100µL**	8/12/14	AC	
Spike	**15_B**	**100µL**	8/12/14	AC	
Extraction Time:	1445				

SPECIAL INSTRUCTIONS: 1. Weigh into 100mL beakers-dry with Sodium Sulfate. 2. Transfer to microwave vessel. 3. Add 20mL DCM to the vessel (if needed-Add 5mL increments until solvent is 1" above soil layer). 4. Add surr/spike. 5. Mix samples thoroughly before microwaving. 6. Microwave on appropriate power setting determined by # of samples. 7. After microwave-let cool 10-15 min. 8. Collect into turbo tube with sm. funnel containing glasswool and 1" sodium sulfate. 9. Add (2) 10mL DCM rinses to vessel and transfer to turbo tube. 10. TurboVap to 4mL then Add 5mL Hexane and turbovap. 11. Silica Clean-up Opt-Any Color=REQ (All or none). 12. TurboVap (if Silica Clean). 13. Vial in DCM.

A. Need Total Solids Y (N) B. ~~Archive/Freeze~~ Y / N

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory
Analyst Notes

ARI Job No.: PX44

Client ID: Anchor QEA

Parameter: SIM PNA

Client Project: Eddon Boatyard

SOP Number(s): 3975

No Anomalies:

PX44 List problems, concerns, corrective actions and any other pertinent information 11/14 Q.F.

A-ORGS, B-ORGS.

Analyst Initials:		Date:	

Extractions Total Solids-extts
Data By: Jim Hawk
Created: 11/14/09

Worklist: 1996
Analyst: JBH
Comments:

	ARI ID / CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1.	PX44A 09-28003 AHA-01-3NW(0-2)	1.16	12.22		11.04	NR
2.	PX44B 09-28004 AHA-01-4NE(0-2)	1.14	12.59		11.06	NR

Analytical Resources Inc.: Organics Instrument Log

NT-2 Serial No.: 82321977

Date: 11/2/09 Analysis: SIMPNA Analyst: ph

GC Program: SIMPNA Column No: 605239 Column Type: ZB-5MSi

Instrument Tune (.U or .CT.): 090928.U EM Voltage: 2494

Calibration File: df1102 Curve Date: 11/2/09

IS/SS	Ical/Ccal	LCS/ICV
1584-1	1662-1	1663-4

	Time	Filename	LabID	ClientId	DF								
1	1617	df1102.d	DFTPP		1	NO ISTDS FOUND							
2	1636	ic110201.d	PNA 2.5		1	5.98	353094	8.77	172751	11.12	254451	15.13	238407	16.72	207102
3	1700	ic110202.d	PNA 10		1	5.99	309248	8.77	143374	11.12	211995	15.13	206629	16.72	174589
4	1724	ic110203.d	PNA 0.1		1	5.98	282017	8.76	143417	11.12	208388	15.13	197273	16.72	170597
5	1748	ic110204.d	PNA 5		1	5.98	317291	8.76	151442	11.12	226694	15.13	218715	16.72	185779
6	1812	ic110205.d	PNA 0.5		1	5.98	290092	8.77	144952	11.12	211179	15.13	196955	16.72	178458
7	1835	ic110206.d	PNA 1		1	5.98	300127	8.77	150404	11.12	221090	15.13	207503	16.72	173609
8	1859	ic110207.d	ICV		1	5.98	287206	8.77	144042	11.12	213046	15.13	208921	16.72	179657
9	1923	110200a.d	PU75MBW1		1	5.98	304071	8.77	153952	11.12	226894	15.13	214008	16.72	168757
10	1947	110200b.d	PU75LCSW1		1	5.98	326518	8.77	160759	11.12	244223	15.13	236416	16.72	185728
11	2011	110200c.d	PU75A		1	5.99	314251	8.77	156250	11.12	237813	15.13	227165	16.71	177288
12	2034	110200d.d	PU75B		1	5.98	313942	8.77	156342	11.12	236967	15.12	227585	16.72	176703
13	2058	110201.d	PU92MBS1	PU92MBS1	1	5.98	264307	8.77	129484	11.12	191291	15.12	179308	16.72	153660
14	2122	110202.d	PU92LCSS1	PU92LCSS1	1	5.99	265027	8.77	131800	11.12	194214	15.13	188526	16.71	161214
15	2146	110203.d	PU92A	1A	1	5.98	266407	8.77	131802	11.12	192517	15.13	181233	16.71	155803
16	2209	110204.d	PU92B	1B	1	5.98	268093	8.76	131331	11.11	195639	15.13	180488	16.72	155306
17	2233	110205.d	PU92C	1C	1	5.98	269682	8.77	134706	11.12	191755	15.13	179743	16.72	157744
18	2257	110206.d	PU92D	2	1	5.98	265511	8.77	132144	11.12	191798	15.13	190161	16.72	173231
19	2320	110207.d	PU92E	2A	1	5.98	275741	8.77	136420	11.12	196590	15.13	179435	16.71	161677
20	2345	110208.d	PU92F	2B	1	5.98	268085	8.77	133723	11.12	190969	15.13	182009	16.72	155860
21	0008	110209.d	PU92G	2C	1	5.98	271468	8.76	135451	11.12	200666	15.13	186300	16.72	163586
22	0032	110210.d	PU92H	3	1	5.98	270750	8.77	129281	11.12	191358	15.13	189992	16.72	166994
23	0056	110211.d	PU92I	3A	1	5.98	267663	8.77	130905	11.12	192067	15.13	183849	16.72	161121
24	0119	110212.d	PU92IMS	3A MS	1	5.98	267188	8.76	133289	11.12	193440	15.13	183941	16.72	167208
25	0143	110213.d	PU92IMSD	3A MSD	1	5.98	273040	8.77	132945	11.12	195821	15.13	188920	16.72	163981
26	0207	110214.d	PU92J	3B	1	5.98	264254	8.77	132107	11.12	192341	15.13	185279	16.72	164481

Mainter

ph 11/3/09 New liner, clip col
New col Nat

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): DCL1020

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: _____ Client ID: _____

ARI SOP: **801S**(SIM-PNA) **802S**(Butyl Tins) **804S**(SVOA-8270D) **805S**(op-Pest)

Parameter(s): NTZ SIM PNA CORR 11/2/09

Instrument: NT-1 (NT-2) NT-4 NT-6 NT-8

Curve Date: 11/2/09 Analysis Start Date: _____

DFTPP Tune Meets Criteria?	(YES) / NO	Internal Standard Meets Criteria?	YES / NO
DDT Breakdown <20%?	(YES) / NO / NA	Method Blank In Control?	YES / NO
Peak Tailing Factor ≤2?	(YES) / NO / NA	LCS / LCSD Recovery In Control?	YES / NO
ICal acceptable (YES) / NO; Q flag applied YES / NO		Surrogate Recovery In Control?	YES / NO
CCal acceptable YES / NO; Q flag applied YES / NO		Special Analysis Criteria Met?	YES / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

All cmpds < 20% RSD

Additional Details on Reverse: Yes / No

Analyst Signature: _____ **Date:** 11/3/09

Reviewer's Signature: _____ **Date:** 11/20/09

Analytical Resources Inc.: Organics Instrument Log

NT-2 Serial No.: 82321977

Date: 11/18/09 Analysis: SIM PNA Analyst: pk

GC Program: SIM PNA Column No: 165239 Column Type: 345 MSI

Instrument Tune (.U or .CT.): 091028.U EM Voltage: 2553

Calibration File: df1118 Curve Date: 11/2/09

IS/SS	Ical/Ccal	LCS/ICV
	1662-1	
1584-1		

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt2.i/20091118.b

	Time	Filename	LabID	ClientId	DF								
1	0933	df1118.d	DFTPP		1	NO ISTDS FOUND							
2	0953	cc1118.d	PNA 2.5		1	5.87	395789	8.65	194874	11.00	288373	15.02	244489	16.63	201557
3	1046	111801.d	PW54MBS1		1	5.88	363160	8.65	179651	11.00	268775	15.02	223659	16.63	179260
4	1110	111802.d	PW54LCSS1		1	5.88	358655	8.65	180850	11.00	265218	15.02	230220	16.63	192863
5	1133	111803.d	PW54LCSDS1		1	5.87	357245	8.65	181162	11.00	267255	15.02	232952	16.62	190498
6	1157	111804.d	PW54A		1	5.88	374534	8.65	204183	11.00	289962	15.03	277326	16.64	241895
7	1221	111805.d	PW57A		1	5.87	372209	8.65	188098	11.00	278411	15.02	265293	16.63	249207
8	1245	111806.d	PW57AMS		1	5.88	395344	8.65	199900	11.00	289829	15.02	278578	16.63	250240
9	1308	111807.d	PW57AMSD		1	5.88	390732	8.65	196350	11.00	292221	15.02	279893	16.63	254700
10	1332	111808.d	PW57B		1	5.87	393170	8.65	201797	11.00	294200	15.04	309466	16.65	296169
11	1356	111809.d	PW57C		1	5.88	384146	8.65	196722	11.00	290730	15.04	343715	16.65	300999
12	1420	111810.d	PX44MBS1		1	5.88	382150	8.65	195560	11.00	289993	15.02	266922	16.63	249411
13	1443	111811.d	PX44LCSS1		1	5.88	392323	8.65	197843	11.00	297326	15.02	283232	16.63	251786
14	1507	111812.d	PX44A		1	5.87	384809	8.65	199958	11.00	287443	15.03	291563	16.63	267530
15	1531	111813.d	PX44AMS		1	5.88	396848	8.65	203925	11.00	301314	15.03	312479	16.63	281752
16	1555	111814.d	PX44AMSD		1	5.88	402547	8.65	202248	11.00	295655	15.03	302700	16.63	277065
17	1618	111815.d	PX44B		1	5.88	383597	8.65	192013	11.00	286023	15.04	314923	16.64	287242

pk 11/20/09

Maintenance / Comments

NONE

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): cc1118

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources Inc.: Organics Instrument Log

NT-2 Serial No.: 82321977

Date: 11/19/09 Analysis: Sim PNA Analyst: pk

GC Program: SIMPNA Column No: 165239 Column Type: 25m rtx-5

Instrument Tune (.U or .CT.): 091028.U EM Voltage: 2553

Calibration File: df1119 Curve Date: 11/2/09

IS/SS	Ical/Ccal	LCS/ICV
1584-1	1662-1	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt2.i/20091119.b

	Time	Filename	LabID	ClientId	DF									
1	1104	df1119.d	DFTPP		1	NO ISTDS FOUND								
2	1131	cc1119.d	PNA 2.5		1	5.79	470233	8.55	229509	10.90	342481	14.93	303217	16.54	257010
3	1238	111901.d	PW54A	DPF-1	5	5.79	396503	8.56	205310	10.90	298732	14.93	279446	16.55	260721
4	1302	111902.d	PW57B	DS-5A(7.5-8.	30	5.80	399524	8.56	204550	10.90	296048	14.93	282556	16.54	261700
5	1326	111903.d	PW57C	DS-5A(11-12)	10	5.80	406662	8.56	203288	10.90	305508	14.93	302589	16.54	274005
6	1349	111904.d	PX44A	AHA-01-3NW(0	3	5.80	383707	8.56	191243	10.90	288065	14.93	285211	16.55	261227
7	1413	111905.d	PX44B	AHA-01-4NE(0	5	5.80	396578	8.56	198348	10.90	292898	14.93	297265	16.55	273908
8	1437	111906.d	PX26MBW1	PX26MBW1	1	5.79	410070	8.56	201046	10.90	299995	14.93	279122	16.54	252819
9	1501	111907.d	PX26LCSW1	PX26LCSW1	1	5.79	413559	8.56	205524	10.89	308427	14.92	288255	16.55	252711
10	1525	111908.d	PX26LCSDW1	PX26LCSDW1	1	5.79	415094	8.55	212848	10.90	316744	14.93	289900	16.54	253928
11	1548	111909.d	PX26A	MW-2	1	5.79	415347	8.55	211141	10.89	311548	14.93	280856	16.54	250447
12	1612	111910.d	PX26B	MW-102	1	5.79	417894	8.55	212602	10.90	310546	14.93	284831	16.54	248412
13	1636	111911.d	PX26C	MW-103	1	5.79	413185	8.56	211245	10.89	312396	14.93	284143	16.54	252179
14	1700	111912.d	PX26D	MW-104	1	5.79	412591	8.56	209279	10.90	316087	14.93	289694	16.54	250804
15	1724	111913.d	PX26E	MW-105	1	5.79	414073	8.56	214097	10.89	314870	14.93	286467	16.54	257661
16	1748	111914.d	PX26F	MW-109	1	5.79	418903	8.55	212206	10.89	317920	14.93	290451	16.55	254907
17	1811	111915.d	PX26G	MW-106	1	5.79	426648	8.55	216951	10.90	317223	14.93	285745	16.54	254132
18	1835	111916.d	PX26H	MW-107	1	5.79	419483	8.55	206848	10.90	310878	14.93	281134	16.54	251033
19	1859	111917.d	PX26I	MW-108	1	5.79	434109	8.56	217851	10.89	318689	14.92	295112	16.55	258299

Maintenance / Comments

pk 11/20/09

New liner, clip col.

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): CC1119

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: PX44 Client ID: Anchor

ARI SOP: **801S**(SIM-PNA) **802S**(Butyl Tins) **804S**(SVOA-8270D) **805S**(op-Pest)

Parameter(s): _____

Instrument: NT-1 (NT-2) NT-4 NT-6 NT-8

Curve Date: 11/2/09 Analysis Start Date: 11/18/09

DFTPP Tune Meets Criteria? (YES) / NO Internal Standard Meets Criteria? (YES) / NO

DDT Breakdown <20%? (YES) / NO / NA Method Blank In Control? (YES) / NO

Peak Tailing Factor ≤2? (YES) / NO / NA LCS / LCSD Recovery In Control? (YES) / NO

ICal acceptable (YES) / NO; Q flag applied YES / (NO) Surrogate Recovery In Control? (YES) / NO

CCal acceptable (YES) / NO; Q flag applied YES / (NO) Special Analysis Criteria Met? YES / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

- AMS/MSD have higher hits than A — Homogeneity issue?

Additional Details on Reverse: Yes / No

Analyst Signature: _____ **Date:** 11/20/09

Reviewer's Signature: _____ **Date:** 11/20/09

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: PX44 Client ID: Anchor QEA

Parameter: Composite Client Project: Eddon Boatyard

SOP Number(s): 3595 No Anomalies:

List problems, concerns, corrective actions and any other pertinent information 11/14 J.F.

Samples PG52 AL & PG52 AM were composited into PX44 A

Samples PG52 AR & PG52 AS were composited into PX44 B

Component weights...

PG52 AL = 342.34g PG52 AM = 342.61g

PG52 AR = 344.23g PG52 AS = 344.64

Prep time = 11:30 - 12:00 0.5 hrs

A- has orgs. Broke up clumps. B = Removed Lg Rocks.

Analyst Initials:		Date:	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

July 22, 2009

Joy Dunay
Anchor Environmental
1423 3rd Avenue, Suite 300
Seattle, WA 98101

RE: Eddon Boatyard
ARI Job No. PG52

Dear Joy:

Please find enclosed the original chain of custody documentation and the final data package for samples from the project referenced above.

Sample receipt and details of the analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.
Bob Crigliotti
- FOR -
Susan Dunnihoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures

cc: eFile PG52

SD/bc

Chain of Custody
Documentation

prepared
for

Anchor QEA

Project: Eddon Boatyard

ARI JOB NO: PG52

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: PG52	Turn-around Requested: 10 day	Page: 1 of 5	
ARI Client Company: Anchor QEA	Phone: 206-903-3320	Date: 7/10/09	Ice Present? Yes
Client Contact: Joy Dunay		No. of Coolers: 2	Cooler Temps: 5.2, 0.2
Client Project Name: Eddon Boatyard			
Client Project #:	Samplers: JD DG		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: MTCA PAH	Analysis Requested: Frozen Archive	Notes/Comments
AHA-01-1SW(0-1)	7/10/09	830	Soil	1		X	
AHA-01-1SW(1-2)		835				X	
AHA-01-1SW(2-3)		840				X	
AHA-01-1SW(0-3)		845			X		
AHA-01-1SE(0-1)		0930				X	
AHA-01-1SE(1-2)		0932				X	
AHA-01-1SE(2-3)		0935				X	
AHA-01-1SE(0-3)		0940			X		
AHA-01-1NE(0-1)		1020				X	
AHA-01-1NE(1-2)		1022				X	

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature) Joy Dunay	(Signature) J. Hayes	(Signature)	(Signature)
	Printed Name: Joy Dunay	Printed Name: J. Hayes	Printed Name:	Printed Name:
	Company: Anchor QEA	Company: ARI	Company:	Company:
	Date & Time: 7/10/09 1650	Date & Time: 7/10/09 16:55	Date & Time:	Date & Time:

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: PG52	Turn-around Requested: 10-day	Page: 2 of 5	
ARI Client Company: Anchor QEA	Phone:	Date: 7/10/09	Ice Present? Yes
Client Contact: Joy Duran		No. of Coolers: 2	Cooler Temps: 5.2, -0.2
Client Project Name: Eddon Boatyard			
Client Project #:	Samplers:		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: MTCA PAHs	Analysis Requested: Frozen Archive	Notes/Comments
AHA-01-1NE(2-3)	7/10/09	1025	soil	1		X	
AHA-01-1NE(3-3.5)		1030		1		X	
AHA-01-1NE(0-3)		1027		1	X		
AHA-01-1NW(0-1)		1050		1		X	
AHA-01-1NW(1-2)		1052		1		X	
AHA-01-1NW(2-2.5)		1053		1		X	
AHA-01-1NW(0-2.5)		1058		1	X		
AHA-01-CEN(2.5-3)		1125		1		X	
AHA-01-CEN(3-3.5)		1127		1		X	
AHA-01-CEN(2.5-3.5)		1130		1	X		

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature) Joy Duran	(Signature) D. Hayes	(Signature)	(Signature)
	Printed Name: Joy Duran	Printed Name: D. Hayes	Printed Name:	Printed Name:
	Company: AQ	Company: ARI	Company:	Company:
	Date & Time: 7/10/09 1650	Date & Time: 7/10/09 1655	Date & Time:	Date & Time:

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: PG52	Turn-around Requested: 10-day	Page: 3 of 5	
ARI Client Company: Anchor QEA	Phone:	Date: 7/10/09	Ice Present? Yes
Client Contact: Joy Dunay		No. of Coolers: 2	Cooler Temps: 5.2, -0.2
Client Project Name: Eddon Boatyard			
Client Project #:	Samplers: JD DG		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: Frozen Archive	Notes/Comments
AHA-01-2SE (0-1)	7/10/09	1235	Soil	1	X	
AHA-01-2SE (1-2)	"	1238	"	"	X	
AHA-01-2SE (2-3)	"	1240	"	"	X	
AHA-01-2NE (0-1)	"	1301	"	"	X	
AHA-01-2NE (1-2)	"	1304	"	"	X	
AHA-01-2NE (2-3)	"	1305	"	"	X	
AHA-01-2NW (0-1)	"	1320	"	"	X	
AHA-01-2NW (1-2)	"	1325	"	"	X	
AHA-01-2NW (2-3)	"	1330	"	"	X	
AHA-01-2SW (0-1)	"	1350	"	"	X	

Comments/Special Instructions

	Relinquished by:	Received by:	Relinquished by:	Received by:
(Signature)	Joy Dunay	D. Hayes		
Printed Name:	Joy Dunay	D. Hayes		
Company:	AQ	ARI		
Date & Time:	7/10/09 1650	7/10/09 1655		

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: PG52	Turn-around Requested:	Page: 4 of 5	
ARI Client Company: Anchor QEA	Phone:	Date: 7/10/07	Ice Present? Yes
Client Contact: Joy Duncy		No. of Coolers: 2	Cooler Temps: 5.2 -0.2
Client Project Name: Eddon Boatyard			
Client Project #:	Samplers: JO DG		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: Frozen Archive								Notes/Comments
AHA-01-2SW (1-2)	7/10/07	1355	Soil	1	X								
AHA-01-2SW (2-3)	"	1400	"	"	X								
AHA-01-3SE (0-1)	"	1415	"	"	X								
AHA-01-3SE (1-2)	"	1420	"	"	X								
AHA-01-3SE (2-3)	"	1422	"	"	X								
AHA-01-3NE (0-1)	"	1440	"	"	X								
AHA-01-3NE (1-2)	"	1445	"	"	X								
AHA-01-3NW (0-1)	"	1500	"	"	X								
AHA-01-3NW (1-2)	"	1505	"	"	X								
AHA-01-3NW (2-3)	"	1510	"	"	X								

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Joy Duncy	Printed Name: J. Hayes	Printed Name:	Printed Name:
	Company: AQ	Company: ARI	Company:	Company:
	Date & Time: 7/10/07 1650	Date & Time: 7/10/07 1655	Date & Time:	Date & Time:

Chain of Custody Record & Laboratory Analysis Request

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

ARI Assigned Number: PG52	Turn-around Requested: 10-day
ARI Client Company: Anchor QEA	Phone:
Client Contact: Joy Dunn	
Client Project Name: Eddon Boatyard	
Client Project #:	Samplers: JD DG
Page: 5 of 5	
Date: 7/10/09	Ice Present? yes
No. of Coolers: 2	Cooler Temps: 5.2, -0.2

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: Frozen Archive								Notes/Comments
AHA-01-3SW (0-1)	7/10/09	1520	Soil	1	X								
AHA-01-3SW (1-2)	|	1522	|	1	X								
AHA-01-3SW (2-2.5)	|	1525	|	1	X								
AHA-01-4NE (0-1)	|	1540	|	1	X								
AHA-01-4NE (1-2)	|	1545	|	1	X								
AHA-01-4NE (2-3)	|	1555	|	1	X								

JD 7/10/09

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature) [signature]	(Signature) J. Hayes	(Signature)	(Signature)
	Printed Name: Joy Dunn	Printed Name: J. Hayes	Printed Name:	Printed Name:
	Company: AQ	Company: ARI	Company:	Company:
	Date & Time: 7/10/09 1650	Date & Time: 7/10/09 1655	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Anchor QEA Project Name: Eddon Boatyard

COC No(s): _____ (NA) Delivered by: Fed-Ex UPS Courier (Hand) Delivered Other: _____

Assigned ARI Job No: PG52 Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 5.2 -0.2 ____ ____ ____ ____

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 487405

Cooler Accepted by: JH Date: 7/10/09 Time: 1655

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ... Bubble Wrap (Wet Ice) Gel Packs (Baggies) Foam Block Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		(YES)	NO
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	NA	YES	(NO)
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO

Samples Logged by: JH Date: 7/10/09 Time: 1715

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:

Small Air Bubbles < 2mm	Peabubbles 2-4 mm	LARGE Air Bubbles > 4 mm
• • •	• • •	● ● ●

Small → "sm"
Peabubbles → "pb"
Large → "lg"
Headspace → "hs"

Case Narrative

prepared
for

Anchor QEA

Project: Eddon Boatyard

ARI JOB NO: PG52

prepared
by

Analytical Resources, Inc.

Case Narrative

Client: Anchor Environmental
Project: Eddon Boatyard
ARI Job Nos. PG52

Sample receipt

Forty-six soil samples were received by Analytical Resources on July 10, 2009 at cooler temperatures of -0.2° and 5.2°C, as measured by IR thermometer, with no discrepancies in paperwork. For further details of sample receipt, please refer to the enclosed Cooler Receipt Form.

Under ARI job number PG52, forty-one samples were placed on frozen archive, with the remaining five samples analyzed for SIM PNAs, reported here.

Selected Semivolatiles by SW8270-SIM

All samples and associated laboratory QC were extracted and analyzed within recommended holding times.

Initial and continuing calibrations were within method requirements. Internal standard areas were within limits.

For the dilution of sample **AHA-01-1NE(0-3)**, surrogate recovery of analyte **d14-Dibenzo (a,h) anthracene** was outside of control limits (high). All other surrogate recoveries were within control limits. No corrective action was taken.

The method blank was clean at the reporting limit. The LCS percent recoveries were within control limits.

The MS/MSD had several analytes for which recoveries and RPDs were outside of control limits. No action is required for matrix QC.

Data Reporting Qualifiers

Effective 7/10/2009

Inorganic Data

U Indicates that the target analyte was not detected at the reported concentration

* Duplicate RPD is not within established control limits

B Reported value is less than the CRDL but ≥ the Reporting Limit

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible

L Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U Indicates that the target analyte was not detected at the reported concentration

* Flagged value is not within established control limits

B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

J Estimated concentration when the value is less than ARI's established reporting limits

D The spiked compound was not detected due to sample extract dilution

E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20%Drift or minimum RRF).

S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

NA The flagged analyte was not analyzed for

NR Spiked compound recovery is not reported due to chromatographic interference

NS The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.

F Samples were frozen prior to particle size determination

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

LCS SOLUTIONS

06/16/2009

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
1	1612-4	PCB	20	ACETONE	06/08/10
2#	1472-3	BCOC PEST	10	ACETONE	NA
3	1579-3	PEST	02/04/20	ACETONE	09/23/09
4	1594-2	LOW PEST	0.2/0.4/2	ACETONE	09/23/09
5	1580-2	EPH	1500	MECL2	01/29/10
6	1559-2	PCP	12.5/125	ACETONE	11/05/09
7	1613-4	ABN	100	ACETONE	02/01/10
8	1566-1	TBT	2.5	MECL2	12/04/09
9	1567-3	PORE TBT	.125/.25	MECL2	12/04/09
10	1596-2	ABN ACID	100/200	MEOH	10/21/09
11	1591-1	TPHD	15000	ACETONE	03/26/10
12	1597-3	ABN BASE	200	ACETONE	02/05/10
13	1613-1	LOW PCB	2	ACETONE	06/08/10
14*	1547-1	LOW ABN ACID	10/20	MEOH	04/10/10
15	1591-3	SIM PNA	15/75	MEOH	08/28/09
16	1602-3	DIOXANE	100	MEOH	03/20/10
17#	1516-2	1248 PCB	20	ACETONE	NA
18	1591-4	LOW SIM PNA	1.5	ACETONE	08/28/09
19	1574-4	AK103	7500	MECL2	12/02/09
20	1572-2	PNA	100	ACETONE	12/26/09
21	1593-3	SKY/BHT	100	MEOH	03/31/10
22	1603-1	HERB	12.5/12500	MEOH	08/18/09
23*	1505-1	LW ABN BASE	20	MEOH	03/20/10
24	1613-2	LOW ABN	10	ACETONE	02/28/10
25#	1481-1	DIPHENYL	100	MEOH	NA
26*	1545-2	OP-PEST	25	MEOH	02/16/10
27#	1495-1	STEROLS	200	MEOH	NA
28	1595-1	ADD. PEST	4	ACETONE	09/15/09
29#	1496-3	DECANES	100	MEOH	NA
30	1604-2	EDB/DBCP	0.1	HEXANE	05/20/10
31	1596-1	TERPINEOL	100	MEOH	04/03/10

LCS SOLUTIONS

06/16/2009

32	1598-1	GUAIACOL	50-200	ACETONE	04/30/10
33		NOT IN USE			
34	1530-2	CONGENERS	1	ACETONE	07/23/09
35	1601-2	ALKYL PNA A	10	MEOH	04/03/10
36	1601-3	ALKYL PNA B	10	MEOH	05/13/10
50	1571-1	FULL RESIN	250	ACETONE	06/10/09
51	1611-3	DDTS	2.5	ACETONE	06/04/10
52#	1613-5	1232 PCB	20	ACETONE	06/16/10
	*=REVERIFIED SOLUTION				
	#=PROJECT SPECIFIC SOLUTION				

SURR SOLUTIONS

06/16/2009

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
A	1584-5	ABN	100/150	MEOH	02/18/10
B	1572-1	SIM PNA	15/75	MEOH	08/28/09
C*	1559-1	SIM ABN	25/37.5	MEOH	03/13/10
D	1612-3	LOW PCB	0.2	ACETONE	05/29/10
E*	1478-1	HERB	62.5	MEOH	09/21/09
F	1574-3	PCP	12.5	ACETONE	01/06/10
G	1602-2	1,4DIOXANE	100	MEOH	03/20/10
H	1594-1	OP-PEST	25	MEOH	04/01/10
I	1559-4	LOW S. PNA	1.5	MEOH	08/28/09
J	1566-5	TBT-PORE	0.125	MECL2	12/04/09
K	1612-1	MED PCB	20	ACETONE	05/29/10
L	1584-4	TBT	2.5	MECL2	12/04/09
M	1578-1	EPH	1500	MECL2	12/09/09
N	1612-2	PCB	2	ACETONE	05/29/10
O	1606-2	TPH	450	MECL2	01/07/10
P	1598-2	HCID	2250	MECL2	01/07/10
Q	1604-5	EDB	2	HEXANE	05/22/10
R	1521-4	RESIN ACID	250	ACETONE	06/11/09
S	1568-5	PBDE	.25	MEOH	12/11/09
T	1601-1	ALKYL PNA	10	MEOH	11/26/09
U	*=REVERIFIED SOLUTION				
V					
W					
X					
Y					
Z					

Data Summary Package

prepared
for

Anchor QEA

Project: Eddon Boatyard

ARI JOB NO: PG52

prepared
by

Analytical Resources, Inc.

SIM SEMIVOLATILE ANALYSIS

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: AHA-01-1SW(0-3)
SAMPLE

Lab Sample ID: PG52D
LIMS ID: 09-16489
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 07/14/09
Date Analyzed: 07/17/09 22:54
Instrument/Analyst: NT1/YZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 11.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 12.9%

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	4.6	33	
91-57-6	2-Methylnaphthalene	4.6	13	
90-12-0	1-Methylnaphthalene	4.6	10	
208-96-8	Acenaphthylene	4.6	190	
83-32-9	Acenaphthene	4.6	8.2	
86-73-7	Fluorene	4.6	50	
85-01-8	Phenanthrene	4.6	630	E
120-12-7	Anthracene	4.6	100	
206-44-0	Fluoranthene	4.6	1,200	E
129-00-0	Pyrene	4.6	1,000	E
56-55-3	Benzo(a)anthracene	4.6	630	E
218-01-9	Chrysene	4.6	740	E
205-99-2	Benzo(b)fluoranthene	4.6	490	E
207-08-9	Benzo(k)fluoranthene	4.6	630	E
50-32-8	Benzo(a)pyrene	4.6	810	E
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	290	
53-70-3	Dibenz(a,h)anthracene	4.6	130	
191-24-2	Benzo(g,h,i)perylene	4.6	260	
132-64-9	Dibenzofuran	4.6	20	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	89.0%
d14-Dibenzo(a,h)anthracen	86.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: AHA-01-1SW(0-3)
DILUTION

Lab Sample ID: PG52D
LIMS ID: 09-16489
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 07/14/09
Date Analyzed: 07/18/09 12:11
Instrument/Analyst: NT1/YZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 11.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 12.9%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	46	< 46 U
91-57-6	2-Methylnaphthalene	46	< 46 U
90-12-0	1-Methylnaphthalene	46	< 46 U
208-96-8	**Acenaphthylene**	**46**	**150**
83-32-9	Acenaphthene	46	< 46 U
86-73-7	Fluorene	46	< 46 U
85-01-8	**Phenanthrene**	**46**	**580**
120-12-7	**Anthracene**	**46**	**86**
206-44-0	**Fluoranthene**	**46**	**1,000**
129-00-0	**Pyrene**	**46**	**1,100**
56-55-3	**Benzo(a)anthracene**	**46**	**590**
218-01-9	**Chrysene**	**46**	**660**
205-99-2	**Benzo(b)fluoranthene**	**46**	**350**
207-08-9	**Benzo(k)fluoranthene**	**46**	**640**
50-32-8	**Benzo(a)pyrene**	**46**	**760**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**46**	**380**
53-70-3	**Dibenz(a,h)anthracene**	**46**	**160**
191-24-2	**Benzo(g,h,i)perylene**	**46**	**390**
132-64-9	Dibenzofuran	46	< 46 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	83.3%
d14-Dibenzo(a,h)anthracen	107%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: AHA-01-1SE(0-3)
SAMPLE

Lab Sample ID: PG52H
LIMS ID: 09-16493
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 07/14/09
Date Analyzed: 07/18/09 12:37
Instrument/Analyst: NT1/YZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.9 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 2.00
Percent Moisture: 18.7%

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**9.2**	**35**
91-57-6	**2-Methylnaphthalene**	**9.2**	**13**
90-12-0	1-Methylnaphthalene	9.2	< 9.2 U
208-96-8	**Acenaphthylene**	**9.2**	**99**
83-32-9	Acenaphthene	9.2	< 9.2 U
86-73-7	**Fluorene**	**9.2**	**9.2**
85-01-8	**Phenanthrene**	**9.2**	**180**
120-12-7	**Anthracene**	**9.2**	**35**
206-44-0	**Fluoranthene**	**9.2**	**570**
129-00-0	**Pyrene**	**9.2**	**730**
56-55-3	**Benzo(a)anthracene**	**9.2**	**410**
218-01-9	**Chrysene**	**9.2**	**490**
205-99-2	**Benzo(b)fluoranthene**	**9.2**	**320**
207-08-9	**Benzo(k)fluoranthene**	**9.2**	**490**
50-32-8	**Benzo(a)pyrene**	**9.2**	**620**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**9.2**	**340**
53-70-3	**Dibenz(a,h)anthracene**	**9.2**	**150**
191-24-2	**Benzo(g,h,i)perylene**	**9.2**	**360**
132-64-9	Dibenzofuran	9.2	< 9.2 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	73.3%
d14-Dibenzo(a,h)anthracen	110%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
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Sample ID: AHA-01-1NE(0-3)
SAMPLE

Lab Sample ID: PG52M
LIMS ID: 09-16498
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 07/14/09
Date Analyzed: 07/17/09 23:44
Instrument/Analyst: NT1/YZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 11.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 17.0%

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	4.6	74	
91-57-6	2-Methylnaphthalene	4.6	44	
90-12-0	1-Methylnaphthalene	4.6	24	
208-96-8	Acenaphthylene	4.6	290	
83-32-9	Acenaphthene	4.6	9.6	
86-73-7	Fluorene	4.6	48	
85-01-8	Phenanthrene	4.6	880	E
120-12-7	Anthracene	4.6	150	
206-44-0	Fluoranthene	4.6	1,700	E
129-00-0	Pyrene	4.6	1,600	E
56-55-3	Benzo(a)anthracene	4.6	1,100	E
218-01-9	Chrysene	4.6	1,300	E
205-99-2	Benzo(b)fluoranthene	4.6	930	E
207-08-9	Benzo(k)fluoranthene	4.6	930	E
50-32-8	Benzo(a)pyrene	4.6	1,500	E
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	520	E
53-70-3	Dibenz(a,h)anthracene	4.6	240	
191-24-2	Benzo(g,h,i)perylene	4.6	460	E
132-64-9	Dibenzofuran	4.6	13	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	86.3%
d14-Dibenzo(a,h)anthracen	82.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: AHA-01-1NE(0-3)
DILUTION

Lab Sample ID: PG52M
LIMS ID: 09-16498
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 07/14/09
Date Analyzed: 07/18/09 13:02
Instrument/Analyst: NT1/YZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 11.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 17.0%

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**46**	**73**
91-57-6	2-Methylnaphthalene	46	< 46 U
90-12-0	1-Methylnaphthalene	46	< 46 U
208-96-8	**Acenaphthylene**	**46**	**240**
83-32-9	Acenaphthene	46	< 46 U
86-73-7	**Fluorene**	**46**	**50**
85-01-8	**Phenanthrene**	**46**	**860**
120-12-7	**Anthracene**	**46**	**130**
206-44-0	**Fluoranthene**	**46**	**1,700**
129-00-0	**Pyrene**	**46**	**2,000**
56-55-3	**Benzo(a)anthracene**	**46**	**1,100**
218-01-9	**Chrysene**	**46**	**1,200**
205-99-2	**Benzo(b)fluoranthene**	**46**	**870**
207-08-9	**Benzo(k)fluoranthene**	**46**	**1,000**
50-32-8	**Benzo(a)pyrene**	**46**	**1,500**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**46**	**730**
53-70-3	**Dibenz(a,h)anthracene**	**46**	**340**
191-24-2	**Benzo(g,h,i)perylene**	**46**	**770**
132-64-9	Dibenzofuran	46	< 46 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	83.3%
d14-Dibenzo(a,h)anthracen	123%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
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Sample ID: AHA-01-1NW(0-2.5)
SAMPLE

Lab Sample ID: PG52Q
LIMS ID: 09-16502
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 07/14/09
Date Analyzed: 07/18/09 00:10
Instrument/Analyst: NT1/YZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.8 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 11.6%

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	4.6	27	
91-57-6	2-Methylnaphthalene	4.6	11	
90-12-0	1-Methylnaphthalene	4.6	9.7	
208-96-8	Acenaphthylene	4.6	200	
83-32-9	Acenaphthene	4.6	9.3	
86-73-7	Fluorene	4.6	50	
85-01-8	Phenanthrene	4.6	590	E
120-12-7	Anthracene	4.6	120	
206-44-0	Fluoranthene	4.6	1,200	E
129-00-0	Pyrene	4.6	1,200	E
56-55-3	Benzo(a)anthracene	4.6	710	E
218-01-9	Chrysene	4.6	780	E
205-99-2	Benzo(b)fluoranthene	4.6	530	E
207-08-9	Benzo(k)fluoranthene	4.6	530	E
50-32-8	Benzo(a)pyrene	4.6	850	E
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	280	
53-70-3	Dibenz(a,h)anthracene	4.6	140	
191-24-2	Benzo(g,h,i)perylene	4.6	240	
132-64-9	Dibenzofuran	4.6	14	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	77.3%
d14-Dibenzo(a,h)anthracen	87.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
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Sample ID: AHA-01-1NW(0-2.5)
DILUTION

Lab Sample ID: PG52Q
LIMS ID: 09-16502
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 07/14/09
Date Analyzed: 07/18/09 13:28
Instrument/Analyst: NT1/YZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.8 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 11.6%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	46	< 46 U
91-57-6	2-Methylnaphthalene	46	< 46 U
90-12-0	1-Methylnaphthalene	46	< 46 U
208-96-8	**Acenaphthylene**	**46**	**160**
83-32-9	Acenaphthene	46	< 46 U
86-73-7	**Fluorene**	**46**	**51**
85-01-8	**Phenanthrene**	**46**	**530**
120-12-7	**Anthracene**	**46**	**100**
206-44-0	**Fluoranthene**	**46**	**1,000**
129-00-0	**Pyrene**	**46**	**1,300**
56-55-3	**Benzo(a)anthracene**	**46**	**640**
218-01-9	**Chrysene**	**46**	**700**
205-99-2	**Benzo(b)fluoranthene**	**46**	**440**
207-08-9	**Benzo(k)fluoranthene**	**46**	**560**
50-32-8	**Benzo(a)pyrene**	**46**	**770**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**46**	**370**
53-70-3	**Dibenz(a,h)anthracene**	**46**	**170**
191-24-2	**Benzo(g,h,i)perylene**	**46**	**360**
132-64-9	Dibenzofuran	46	< 46 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	70.0%
d14-Dibenzo(a,h)anthracen	103%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
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Sample ID: AHA-01-CEN(2.5-3.5)
SAMPLE

Lab Sample ID: PG52T
LIMS ID: 09-16505
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 07/14/09
Date Analyzed: 07/18/09 01:26
Instrument/Analyst: NT1/YZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.6 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 14.1%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.7	< 4.7 U
91-57-6	2-Methylnaphthalene	4.7	< 4.7 U
90-12-0	1-Methylnaphthalene	4.7	< 4.7 U
208-96-8	Acenaphthylene	4.7	< 4.7 U
83-32-9	Acenaphthene	4.7	< 4.7 U
86-73-7	Fluorene	4.7	< 4.7 U
85-01-8	Phenanthrene	4.7	< 4.7 U
120-12-7	Anthracene	4.7	< 4.7 U
206-44-0	Fluoranthene	4.7	< 4.7 U
129-00-0	**Pyrene**	**4.7**	**7.1**
56-55-3	Benzo(a)anthracene	4.7	< 4.7 U
218-01-9	**Chrysene**	**4.7**	**5.2**
205-99-2	Benzo(b)fluoranthene	4.7	< 4.7 U
207-08-9	**Benzo(k)fluoranthene**	**4.7**	**4.7**
50-32-8	**Benzo(a)pyrene**	**4.7**	**6.1**
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	< 4.7 U
53-70-3	Dibenz(a,h)anthracene	4.7	< 4.7 U
191-24-2	Benzo(g,h,i)perylene	4.7	< 4.7 U
132-64-9	Dibenzofuran	4.7	< 4.7 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	81.3%
d14-Dibenzo(a,h)anthracen	83.3%

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard

Client ID	MNP	DBA	TOT OUT
AHA-01-1SW(0-3)	89.0%	86.0%	0
AHA-01-1SW(0-3) DL	83.3%	107%	0
AHA-01-1SE(0-3)	73.3%	110%	0
AHA-01-1NE(0-3)	86.3%	82.3%	0
AHA-01-1NE(0-3) DL	83.3%	123%*	1
MB-071409	82.7%	90.0%	0
LCS-071409	80.7%	85.7%	0
AHA-01-1NW(0-2.5)	77.3%	87.0%	0
AHA-01-1NW(0-2.5) DL	70.0%	103%	0
AHA-01-1NW(0-2.5) MS	83.7%	84.0%	0
AHA-01-1NW(0-2.5) MSD	84.7%	84.3%	0
AHA-01-CEN(2.5-3.5)	81.3%	83.3%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(35-100)	(34-100)
(DBA) = d14-Dibenzo(a,h)anthracene	(37-120)	(10-117)

Prep Method: SW3546
Log Number Range: 09-16489 to 09-16505

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
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Sample ID: AHA-01-1NW(0-2.5)
MATRIX SPIKE

Lab Sample ID: PG52Q
LIMS ID: 09-16502
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted MS/MSD: 07/14/09

Date Analyzed MS: 07/18/09 00:35
MSD: 07/18/09 01:00
Instrument/Analyst MS: NT1/YZ
MSD: NT1/YZ

Sample Amount MS: 10.8 g-dry-wt
MSD: 10.8 g-dry-wt
Final Extract Volume MS: 0.50 mL
MSD: 0.50 mL
Dilution Factor MS: 1.00
MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Naphthalene	27.3	128	139	72.4%	125	139	70.3%	2.4%
2-Methylnaphthalene	11.1	125	139	81.9%	125	139	81.9%	0.0%
1-Methylnaphthalene	9.7	118	139	77.9%	119	139	78.6%	0.8%
Acenaphthylene	200	274	139	53.2%	252	139	37.4%	8.4%
Acenaphthene	9.3	138	139	92.6%	130	139	86.8%	6.0%
Fluorene	50.5	168	139	84.5%	158	139	77.3%	6.1%
Phenanthrene	587 E	344	139	NA	319	139	NA	NA
Anthracene	116	196	139	57.6%	182	139	47.5%	7.4%
Fluoranthene	1150 E	781 E	139	NA	648 E	139	NA	NA
Pyrene	1210 E	999 E	139	NA	864 E	139	NA	NA
Benzo(a)anthracene	707 E	637 E	139	NA	547 E	139	NA	NA
Chrysene	782 E	708 E	139	NA	606 E	139	NA	NA
Benzo(b)fluoranthene	529 E	550 E	139	15.1%	506 E	139	NA	NA
Benzo(k)fluoranthene	529 E	578 E	139	35.3%	525 E	139	NA	NA
Benzo(a)pyrene	852 E	770 E	139	NA	682 E	139	NA	NA
Indeno(1,2,3-cd)pyrene	280	309	139	20.9%	288	139	5.8%	7.0%
Dibenz(a,h)anthracene	138	219	139	58.3%	199	139	43.9%	9.6%
Benzo(g,h,i)perylene	244	269	139	18.0%	245	139	0.7%	9.3%
Dibenzofuran	13.9	134	139	86.4%	131	139	84.2%	2.3%

Reported in µg/kg (ppb)

NA-No recovery due to high concentration of analyte in original sample, calculated negative recovery, or undetected spike.
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: AHA-01-1NW(0-2.5)
MATRIX SPIKE

Lab Sample ID: PG52Q
LIMS ID: 09-16502
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 07/14/09
Date Analyzed: 07/18/09 00:35
Instrument/Analyst: NT1/YZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.8 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 11.6%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.6	---
91-57-6	2-Methylnaphthalene	4.6	---
90-12-0	1-Methylnaphthalene	4.6	---
208-96-8	Acenaphthylene	4.6	---
83-32-9	Acenaphthene	4.6	---
86-73-7	Fluorene	4.6	---
85-01-8	Phenanthrene	4.6	---
120-12-7	Anthracene	4.6	---
206-44-0	Fluoranthene	4.6	---
129-00-0	Pyrene	4.6	---
56-55-3	Benzo(a)anthracene	4.6	---
218-01-9	Chrysene	4.6	---
205-99-2	Benzo(b)fluoranthene	4.6	---
207-08-9	Benzo(k)fluoranthene	4.6	---
50-32-8	Benzo(a)pyrene	4.6	---
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	---
53-70-3	Dibenz(a,h)anthracene	4.6	---
191-24-2	Benzo(g,h,i)perylene	4.6	---
132-64-9	Dibenzofuran	4.6	---

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	83.7%
d14-Dibenzo(a,h)anthracen	84.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: AHA-01-1NW(0-2.5)
MATRIX SPIKE DUPLICATE

Lab Sample ID: PG52Q
LIMS ID: 09-16502
Matrix: Soil
Data Release Authorized: VJS
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 07/14/09
Date Analyzed: 07/18/09 01:00
Instrument/Analyst: NT1/YZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.8 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 11.6%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.6	---
91-57-6	2-Methylnaphthalene	4.6	---
90-12-0	1-Methylnaphthalene	4.6	---
208-96-8	Acenaphthylene	4.6	---
83-32-9	Acenaphthene	4.6	---
86-73-7	Fluorene	4.6	---
85-01-8	Phenanthrene	4.6	---
120-12-7	Anthracene	4.6	---
206-44-0	Fluoranthene	4.6	---
129-00-0	Pyrene	4.6	---
56-55-3	Benzo(a)anthracene	4.6	---
218-01-9	Chrysene	4.6	---
205-99-2	Benzo(b)fluoranthene	4.6	---
207-08-9	Benzo(k)fluoranthene	4.6	---
50-32-8	Benzo(a)pyrene	4.6	---
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	---
53-70-3	Dibenz(a,h)anthracene	4.6	---
191-24-2	Benzo(g,h,i)perylene	4.6	---
132-64-9	Dibenzofuran	4.6	---

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	84.7%
d14-Dibenzo(a,h)anthracen	84.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: LCS-071409
LAB CONTROL SAMPLE

Lab Sample ID: LCS-071409
LIMS ID: 09-16502
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: NA
Date Received: NA

Date Extracted: 07/14/09
Date Analyzed LCS: 07/17/09 22:29
Instrument/Analyst LCS: NT1/YZ

Sample Amount LCS: 10.0 g-dry-wt
Final Extract Volume LCS: 0.50 mL
Dilution Factor LCS: 1.00

Analyte	LCS	Spike Added	Recovery
Naphthalene	118	150	78.7%
2-Methylnaphthalene	119	150	79.3%
1-Methylnaphthalene	122	150	81.3%
Acenaphthylene	130	150	86.7%
Acenaphthene	122	150	81.3%
Fluorene	134	150	89.3%
Phenanthrene	143	150	95.3%
Anthracene	146	150	97.3%
Fluoranthene	168	150	112%
Pyrene	145	150	96.7%
Benzo(a)anthracene	157	150	105%
Chrysene	151	150	101%
Benzo(b)fluoranthene	162	150	108%
Benzo(k)fluoranthene	156	150	104%
Benzo(a)pyrene	157	150	105%
Indeno(1,2,3-cd)pyrene	120	150	80.0%
Dibenz(a,h)anthracene	129	150	86.0%
Benzo(g,h,i)perylene	93.5	150	62.3%
Dibenzofuran	123	150	82.0%

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	80.7%
d14-Dibenzo(a,h)anthracen	85.7%

4B

SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

PG52MBS1

Lab Name: ANALYTICAL RESOURCES, INC — Client: ANCHOR QEA

ARI Job No: PG52 — Project: EDDON BOATYARD

Lab File ID: PG52MB1 — Date Extracted: 07/14/09

Instrument ID: NT1 — Date Analyzed: 07/17/09

Matrix: SOLID — Time Analyzed: 2203

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	PG52LCSS1	PG52LCSS1	PG52SB1	07/17/09
02	AHA-01-1SW(0-3)	PG52D	PG52D	07/17/09
03	AHA-01-1NE(0-3)	PG52M	PG52M	07/17/09
04	AHA-01-1NW(0-2.5	PG52Q	PG52Q	07/18/09
05	AHA-01-1NW(0-2.	PG52QMS	PG52QMS	07/18/09
06	AHA-01-1NW(0-2.	PG52QMSD	PG52QMSD	07/18/09
07	AHA-01-CEN(2.5-3	PG52T	PG52T	07/18/09
08	AHA-01-1SW(0-3)	PG52D	PG52D10	07/18/09
09	AHA-01-1SE(0-3)	PG52H	PG52H2	07/18/09
10	AHA-01-1NE(0-3)	PG52M	PG52M10	07/18/09
11	AHA-01-1NW(0-2.5	PG52Q	PG52Q10	07/18/09
12				
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COMMENTS:

FORM IV SV

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS

Sample ID: MB-071409
METHOD BLANK

Lab Sample ID: MB-071409
LIMS ID: 09-16502
Matrix: Soil
Data Release Authorized: V13
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: NA
Date Received: NA

Date Extracted: 07/14/09
Date Analyzed: 07/17/09 22:03
Instrument/Analyst: NT1/YZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	5.0	< 5.0 U
90-12-0	1-Methylnaphthalene	5.0	< 5.0 U
208-96-8	Acenaphthylene	5.0	< 5.0 U
83-32-9	Acenaphthene	5.0	< 5.0 U
86-73-7	Fluorene	5.0	< 5.0 U
85-01-8	Phenanthrene	5.0	< 5.0 U
120-12-7	Anthracene	5.0	< 5.0 U
206-44-0	Fluoranthene	5.0	< 5.0 U
129-00-0	Pyrene	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	5.0	< 5.0 U
218-01-9	Chrysene	5.0	< 5.0 U
205-99-2	Benzo(b)fluoranthene	5.0	< 5.0 U
207-08-9	Benzo(k)fluoranthene	5.0	< 5.0 U
50-32-8	Benzo(a)pyrene	5.0	< 5.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	< 5.0 U
53-70-3	Dibenz(a,h)anthracene	5.0	< 5.0 U
191-24-2	Benzo(g,h,i)perylene	5.0	< 5.0 U
132-64-9	Dibenzofuran	5.0	< 5.0 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	82.7%
d14-Dibenzo(a,h)anthracen	90.0%

FORM I

TOTAL SOLIDS

Extractions Total Solids-extts
Data By: Alex Choeng
Created: 7/13/09

Worklist: 2231
Analyst: RVR
Comments:

	ARI ID / CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1.	PG52D 09-16489 AHA-01-1SW(0-3)	1.15	11.52	10.18	87.1	NR
2.	PG52H 09-16493 AHA-01-1SE(0-3)	1.16	11.43	9.51	81.3	NR
3.	PG52M 09-16498 AHA-01-1NE(0-3)	1.16	12.07	10.21	83.0	NR
4.	PG52Q 09-16502 AHA-01-1NW(0-2.5)	1.17	11.72	10.50	88.4	NR
5.	PG52T 09-16505 AHA-01-CEN(2.5-3.5)	1.17	12.40	10.82	85.9	NR

Laboratory Data Package

prepared
for

Anchor QEA

Project: Eddon Boatyard

ARI JOB NO: PG52

prepared
by

Analytical Resources, Inc.

SIM Semivolatile Analysis
QC Summary Data

prepared
for

Anchor QEA

Project: Eddon Boatyard

ARI JOB NO: PG52

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard

Client ID	MNP	DBA	TOT OUT
AHA-01-1SW(0-3)	89.0%	86.0%	0
AHA-01-1SW(0-3) DL	83.3%	107%	0
AHA-01-1SE(0-3)	73.3%	110%	0
AHA-01-1NE(0-3)	86.3%	82.3%	0
AHA-01-1NE(0-3) DL	83.3%	123%*	1
MB-071409	82.7%	90.0%	0
LCS-071409	80.7%	85.7%	0
AHA-01-1NW(0-2.5)	77.3%	87.0%	0
AHA-01-1NW(0-2.5) DL	70.0%	103%	0
AHA-01-1NW(0-2.5) MS	83.7%	84.0%	0
AHA-01-1NW(0-2.5) MSD	84.7%	84.3%	0
AHA-01-CEN(2.5-3.5)	81.3%	83.3%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(35-100)	(34-100)
(DBA) = d14-Dibenzo(a,h)anthracene	(37-120)	(10-117)

Prep Method: SW3546
Log Number Range: 09-16489 to 09-16505

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS

Sample ID: LCS-071409
LAB CONTROL SAMPLE

Lab Sample ID: LCS-071409
LIMS ID: 09-16502
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: NA
Date Received: NA

Date Extracted: 07/14/09
Date Analyzed LCS: 07/17/09 22:29
Instrument/Analyst LCS: NT1/YZ

Sample Amount LCS: 10.0 g-dry-wt
Final Extract Volume LCS: 0.50 mL
Dilution Factor LCS: 1.00

Analyte	LCS	Spike Added	Recovery
Naphthalene	118	150	78.7%
2-Methylnaphthalene	119	150	79.3%
1-Methylnaphthalene	122	150	81.3%
Acenaphthylene	130	150	86.7%
Acenaphthene	122	150	81.3%
Fluorene	134	150	89.3%
Phenanthrene	143	150	95.3%
Anthracene	146	150	97.3%
Fluoranthene	168	150	112%
Pyrene	145	150	96.7%
Benzo(a)anthracene	157	150	105%
Chrysene	151	150	101%
Benzo(b)fluoranthene	162	150	108%
Benzo(k)fluoranthene	156	150	104%
Benzo(a)pyrene	157	150	105%
Indeno(1,2,3-cd)pyrene	120	150	80.0%
Dibenz(a,h)anthracene	129	150	86.0%
Benzo(g,h,i)perylene	93.5	150	62.3%
Dibenzofuran	123	150	82.0%

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	80.7%
d14-Dibenzo(a,h)anthracen	85.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: AHA-01-1NW(0-2.5)
MATRIX SPIKE

Lab Sample ID: PG52Q
LIMS ID: 09-16502
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted MS/MSD: 07/14/09

Date Analyzed MS: 07/18/09 00:35
MSD: 07/18/09 01:00
Instrument/Analyst MS: NT1/YZ
MSD: NT1/YZ

Sample Amount MS: 10.8 g-dry-wt
MSD: 10.8 g-dry-wt
Final Extract Volume MS: 0.50 mL
MSD: 0.50 mL
Dilution Factor MS: 1.00
MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Naphthalene	27.3	128	139	72.4%	125	139	70.3%	2.4%
2-Methylnaphthalene	11.1	125	139	81.9%	125	139	81.9%	0.0%
1-Methylnaphthalene	9.7	118	139	77.9%	119	139	78.6%	0.8%
Acenaphthylene	200	274	139	53.2%	252	139	37.4%	8.4%
Acenaphthene	9.3	138	139	92.6%	130	139	86.8%	6.0%
Fluorene	50.5	168	139	84.5%	158	139	77.3%	6.1%
Phenanthrene	587 E	344	139	NA	319	139	NA	NA
Anthracene	116	196	139	57.6%	182	139	47.5%	7.4%
Fluoranthene	1150 E	781 E	139	NA	648 E	139	NA	NA
Pyrene	1210 E	999 E	139	NA	864 E	139	NA	NA
Benzo(a)anthracene	707 E	637 E	139	NA	547 E	139	NA	NA
Chrysene	782 E	708 E	139	NA	606 E	139	NA	NA
Benzo(b)fluoranthene	529 E	550 E	139	15.1%	506 E	139	NA	NA
Benzo(k)fluoranthene	529 E	578 E	139	35.3%	525 E	139	NA	NA
Benzo(a)pyrene	852 E	770 E	139	NA	682 E	139	NA	NA
Indeno(1,2,3-cd)pyrene	280	309	139	20.9%	288	139	5.8%	7.0%
Dibenz(a,h)anthracene	138	219	139	58.3%	199	139	43.9%	9.6%
Benzo(g,h,i)perylene	244	269	139	18.0%	245	139	0.7%	9.3%
Dibenzofuran	13.9	134	139	86.4%	131	139	84.2%	2.3%

Reported in µg/kg (ppb)

NA-No recovery due to high concentration of analyte in original sample, calculated negative recovery, or undetected spike.
RPD calculated using sample concentrations per SW846.

4B

SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

PG52MBS1

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR QEA

ARI Job No: PG52 Project: EDDON BOATYARD

Lab File ID: PG52MB1 Date Extracted: 07/14/09

Instrument ID: NT1 Date Analyzed: 07/17/09

Matrix: SOLID Time Analyzed: 2203

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	PG52LCSS1	PG52LCSS1	PG52SB1	07/17/09
02	AHA-01-1SW(0-3)	PG52D	PG52D	07/17/09
03	AHA-01-1NE(0-3)	PG52M	PG52M	07/17/09
04	AHA-01-1NW(0-2.5	PG52Q	PG52Q	07/18/09
05	AHA-01-1NW(0-2.	PG52QMS	PG52QMS	07/18/09
06	AHA-01-1NW(0-2.	PG52QMSD	PG52QMSD	07/18/09
07	AHA-01-CEN(2.5-3	PG52T	PG52T	07/18/09
08	AHA-01-1SW(0-3)	PG52D	PG52D10	07/18/09
09	AHA-01-1SE(0-3)	PG52H	PG52H2	07/18/09
10	AHA-01-1NE(0-3)	PG52M	PG52M10	07/18/09
11	AHA-01-1NW(0-2.5	PG52Q	PG52Q10	07/18/09
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COMMENTS:

FORM IV SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR QEA, LLC.

Instrument ID: NT1 Project: EDDON BOATYARD

DFTPP Injection Date: 07/11/09 DFTPP Injection Time: 1212

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	48.7
68	Less than 2.0% of mass 69	0.0 (0.1)1
69	Mass 69 relative abundance	57.7
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	25.0 - 75.0% of mass 198	48.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	17.7
365	Greater than 0.75% of mass 198	2.13
441	Present, but less than mass 443	14.8
442	40.0 - 110.0% of mass 198	88.3
443	15.0 - 24.0% of mass 442	16.8 (19.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		IC0711A	IC0711A	07/11/09	1230
02		IC0711B	IC0711B	07/11/09	1256
03		IC0711C	IC0711C	07/11/09	1321
04		IC0711D	IC0711D	07/11/09	1347
05		IC0711E	IC0711E	07/11/09	1412
06		IC0711F	IC0711F	07/11/09	1437
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FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR QEA, LLC.

Instrument ID: NT1 Project: EDDON BOATYARD

DFTPP Injection Date: 07/17/09 DFTPP Injection Time: 1337

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	70.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	68.3
70	Less than 2.0% of mass 69	1.1 (1.6)1
127	25.0 - 75.0% of mass 198	53.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.4
275	10.0 - 30.0% of mass 198	19.4
365	Greater than 0.75% of mass 198	2.09
441	Present, but less than mass 443	13.1
442	40.0 - 110.0% of mass 198	73.4
443	15.0 - 24.0% of mass 442	13.7 (18.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		CC0717	CC0717	07/17/09	1357
02	PG52MBS1	PG52MBS1	PG52MB1	07/17/09	2203
03	PG52LCSS1	PG52LCSS1	PG52SB1	07/17/09	2229
04	AHA-01-1SW(0-3)	PG52D	PG52D	07/17/09	2254
05	AHA-01-1NE(0-3)	PG52M	PG52M	07/17/09	2344
06	AHA-01-1NW(0-2.5	PG52Q	PG52Q	07/18/09	0010
07	AHA-01-1NW(0-2.	PG52QMS	PG52QMS	07/18/09	0035
08	AHA-01-1NW(0-2.	PG52QMSD	PG52QMSD	07/18/09	0100
09	AHA-01-CEN(2.5-3	PG52T	PG52T	07/18/09	0126
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FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR QEA, LLC.

Instrument ID: NT1 Project: EDDON BOATYARD

DFTPP Injection Date: 07/18/09 DFTPP Injection Time: 1034

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	55.4
68	Less than 2.0% of mass 69	0.4 (0.7)1
69	Mass 69 relative abundance	63.0
70	Less than 2.0% of mass 69	0.4 (0.6)1
127	25.0 - 75.0% of mass 198	48.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.1
275	10.0 - 30.0% of mass 198	16.4
365	Greater than 0.75% of mass 198	1.65
441	Present, but less than mass 443	14.0
442	40.0 - 110.0% of mass 198	76.0
443	15.0 - 24.0% of mass 442	14.6 (19.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		CC0718	CC0718	07/18/09	1054
02	AHA-01-1SW(0-3)	PG52D	PG52D10	07/18/09	1211
03	AHA-01-1SE(0-3)	PG52H	PG52H2	07/18/09	1237
04	AHA-01-1NE(0-3)	PG52M	PG52M10	07/18/09	1302
05	AHA-01-1NW(0-2.5	PG52Q	PG52Q10	07/18/09	1328
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FORM V SV

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR QEA, LLC.

ARI Job No: PG52 Project: EDDON BOATYARD

Ical Midpoint ID: IC0711D Ical Date: 07/11/09

Instrument ID: NT1 Cont. Cal Date: 07/17/09

		IS1(NPT)		IS2(ANT)		IS3(PHN)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	ICAL MIDPT	468820	6.53	214194	8.57	340205	10.36
	UPPER LIMIT	937640	7.03	428388	9.07	680410	10.86
	LOWER LIMIT	234410	6.03	107097	8.07	170102	9.86
	Sample ID						
00	CC0717	488162	6.47	226688	8.51	355623	10.30
01	PG52MBS1	401958	6.47	188289	8.51	283792	10.30
02	PG52LCSS1	430464	6.47	203182	8.51	321669	10.30
03	AHA-01-1SW(0	382416	6.47	182427	8.51	289785	10.30
04	AHA-01-1NE(0	433941	6.47	205365	8.51	316791	10.30
05	AHA-01-1NW(0	442766	6.48	198942	8.51	311497	10.31
06	AHA-01-1NW(0	478308	6.48	215390	8.51	332547	10.30
07	AHA-01-1NW(0	532370	6.47	245218	8.51	362774	10.30
08	AHA-01-CEN(2	534029	6.47	248702	8.51	373459	10.30
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22							

IS1 = Naphthalene-d8
IS2 = Acenaphthene-d10
IS3 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

FORM VIII SV-1

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR QEA, LLC.

ARI Job No: PG52 Project: EDDON BOATYARD

Ical Midpoint ID: PG52T Ical Date: 07/11/09

Instrument ID: NT1 Cont. Cal Date: 07/17/09

		IS4(CRY)		IS5(PRY)			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	ICAL MIDPT	227465	13.66	208290	15.34		
	UPPER LIMIT	454930	14.16	416580	15.84		
	LOWER LIMIT	113732	13.16	104145	14.84		
	Sample ID						
00	CC0717	271105	13.60	222258	15.28		
01	PG52MBS1	216124	13.60	194790	15.28		
02	PG52LCSS1	246156	13.60	221856	15.27		
03	AHA-01-1SW(0	268590	13.61	258128	15.28		
04	AHA-01-1NE(0	279702	13.61	252026	15.29		
05	AHA-01-1NW(0	257920	13.60	231086	15.28		
06	AHA-01-1NW(0	249121	13.60	233992	15.28		
07	AHA-01-1NW(0	262882	13.60	234676	15.28		
08	AHA-01-CEN(2	248164	13.60	212485	15.27		
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IS4 = Chrysene-d12
IS5 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

FORM VIII SV-2

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR QEA, LLC.

ARI Job No: PG52 Project: EDDON BOATYARD

Ical Midpoint ID: IC0711D Ical Date: 07/11/09

Instrument ID: NT1 Cont. Cal Date: 07/18/09

		IS1(NPT)		IS2(ANT)		IS3(PHN)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	ICAL MIDPT	468820	6.53	214194	8.57	340205	10.36
	UPPER LIMIT	937640	7.03	428388	9.07	680410	10.86
	LOWER LIMIT	234410	6.03	107097	8.07	170102	9.86
	Sample ID						
00	CC0718	521858	6.45	234686	8.48	358826	10.28
01	AHA-01-1SW(0	481546	6.45	223271	8.48	352558	10.28
02	AHA-01-1SE(0	515716	6.45	241594	8.48	367774	10.28
03	AHA-01-1NE(0	525552	6.45	239145	8.48	359779	10.28
04	AHA-01-1NW(0	520885	6.45	236439	8.48	363093	10.28
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IS1 = Naphthalene-d8
IS2 = Acenaphthene-d10
IS3 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

FORM VIII SV-1

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR QEA, LLC.

ARI Job No: PG52 Project: EDDON BOATYARD

Ical Midpoint ID: PG52Q10 Ical Date: 07/11/09

Instrument ID: NT1 Cont. Cal Date: 07/18/09

		IS4(CRY) AREA #	RT #	IS5(PRY) AREA #	RT #	AREA #	RT #
	ICAL MIDPT	227465	13.66	208290	15.34		
	UPPER LIMIT	454930	14.16	416580	15.84		
	LOWER LIMIT	113732	13.16	104145	14.84		
	Sample ID						
00	CC0718	275699	13.57	237783	15.24		
01	AHA-01-1SW(0	255838	13.57	249841	15.24		
02	AHA-01-1SE(0	275741	13.58	261401	15.25		
03	AHA-01-1NE(0	267783	13.57	256409	15.25		
04	AHA-01-1NW(0	255367	13.58	250317	15.25		
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IS4 = Chrysene-d12
IS5 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

FORM VIII SV-2

SIM Semivolatile Analysis
Sample Data

prepared
for

Anchor QEA

Project: Eddon Boatyard

ARI JOB NO: PG52

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: AHA-01-1SW(0-3)
SAMPLE

Lab Sample ID: PG52D
LIMS ID: 09-16489
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 07/14/09
Date Analyzed: 07/17/09 22:54
Instrument/Analyst: NT1/YZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 11.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 12.9%

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	4.6	33	
91-57-6	2-Methylnaphthalene	4.6	13	
90-12-0	1-Methylnaphthalene	4.6	10	
208-96-8	Acenaphthylene	4.6	190	
83-32-9	Acenaphthene	4.6	8.2	
86-73-7	Fluorene	4.6	50	
85-01-8	Phenanthrene	4.6	630	E
120-12-7	Anthracene	4.6	100	
206-44-0	Fluoranthene	4.6	1,200	E
129-00-0	Pyrene	4.6	1,000	E
56-55-3	Benzo(a)anthracene	4.6	630	E
218-01-9	Chrysene	4.6	740	E
205-99-2	Benzo(b)fluoranthene	4.6	490	E
207-08-9	Benzo(k)fluoranthene	4.6	630	E
50-32-8	Benzo(a)pyrene	4.6	810	E
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	290	
53-70-3	Dibenz(a,h)anthracene	4.6	130	
191-24-2	Benzo(g,h,i)perylene	4.6	260	
132-64-9	Dibenzofuran	4.6	20	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	89.0%
d14-Dibenzo(a,h)anthracen	86.0%

YZ 07/8/09

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20090717.b/pg52d.d
Lab Smp Id: PG52D Client Smp ID: AHA-01-1SW(0-3)
Inj Date : 17-JUL-2009 22:54
Operator : VTS Inst ID: nt1.i
Smp Info : PG52D
Misc Info : 09-16489
Comment : 1ul Injection
Method : /chem3/nt1.i/20090717.b/simpna.m
Meth Date : 18-Jul-2009 10:30 yev Quant Type: ISTD
Cal Date : 11-JUL-2009 14:37 Cal File: ic0711f.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnalmn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	12.60000	Weight of sample extracted (g)
M	12.90000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
* 1 Naphthalene-d8	136	6.474	6.474	(1.000)	382416	2.00000	
2 Naphthalene	128	6.498	6.498	(1.004)	120623	0.71754	32.69
$ 3 2-Methylnaphthalene-d10	152	7.219	7.218	(1.115)	225750	2.67273	121.8
4 2-Methylnaphthalene	142	7.254	7.260	(1.120)	26169	0.28022	12.77
5 1-Methylnaphthalene	142	7.384	7.384	(1.141)	20087	0.21764	9.916
7 Acenaphthylene	152	8.329	8.329	(0.979)	589513	4.18010	190.4
* 8 Acenaphthene-d10	164	8.507	8.506	(1.000)	182427	2.00000	
9 Acenaphthene	153	8.548	8.548	(1.005)	16185	0.18306	8.340
10 Dibenzofuran	168	8.737	8.737	(1.027)	57899	0.45197	20.59
11 Fluorene	166	9.157	9.156	(1.076)	99072	1.08554	49.46
* 15 Phenanthrene-d10	188	10.303	10.302	(1.000)	289785	2.00000	
16 Phenanthrene	178	10.332	10.332	(1.003)	1874999	13.9535 E	635.7
17 Anthracene	178	10.385	10.391	(1.008)	307677	2.29614	104.6
19 Fluoranthene	202	11.821	11.815	(1.147)	3251283	26.2669 E	1197

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.105	12.098	(0.890)	4069704	22.6251 E	1031
	22 Benzo(a)anthracene	228	13.582	13.581	(0.998)	1744613	13.8107 E	629.2
*	23 Chrysene-d12	240	13.605	13.599	(1.000)	268590	2.00000	
	24 Chrysene	228	13.635	13.634	(1.002)	2140567	16.1931 E	737.8
	28 Benzo(b)fluoranthene	252	14.858	14.846	(0.972)	1397925	10.8274 E	493.3
	29 Benzo(k)fluoranthene	252	14.876	14.869	(0.973)	1916543	13.8402 E	630.6
	30 Benzo(a)pyrene	252	15.224	15.218	(0.996)	1934728	17.8154 E	811.7
*	31 Perylene-d12	264	15.283	15.277	(1.000)	258128	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	16.660	16.648	(1.090)	707535	6.39583	291.4
$	32 Dibenz(a,h)anthrancene-d14	292	16.601	16.594	(1.086)	164646	2.58248	117.7
	34 Dibenz(a,h)anthracene	278	16.648	16.642	(1.089)	241082	2.88296	131.3
	35 Benzo(g,h,i)perylene	276	17.056	17.043	(1.116)	588871	5.69137	259.3

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: pg52d.d
Lab Smp Id: PG52D
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20090717.b/simpna.m
Misc Info: 09-16489

Calibration Date: 17-JUL-2009
Calibration Time: 13:57
Client Smp ID: AHA-01-1SW(0-3)
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	463169	231584	926338	382416	-17.43
8 Acenaphthene-d10	213444	106722	426888	182427	-14.53
15 Phenanthrene-d10	326462	163231	652924	289785	-11.23
23 Chrysene-d12	224038	112019	448076	268590	19.89
31 Perylene-d12	206230	103115	412460	258128	25.17

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.47	5.97	6.97	6.47	0.01
8 Acenaphthene-d10	8.51	8.01	9.01	8.51	0.00
15 Phenanthrene-d10	10.30	9.80	10.80	10.30	0.00
23 Chrysene-d12	13.60	13.10	14.10	13.61	0.05
31 Perylene-d12	15.28	14.78	15.78	15.28	0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA
Sample Matrix: SOLID
Lab Smp Id: PG52D
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: pna1mn.sub
Method File: /chem3/nt1.i/20090717.b/simpna.m
Misc Info: 09-16489

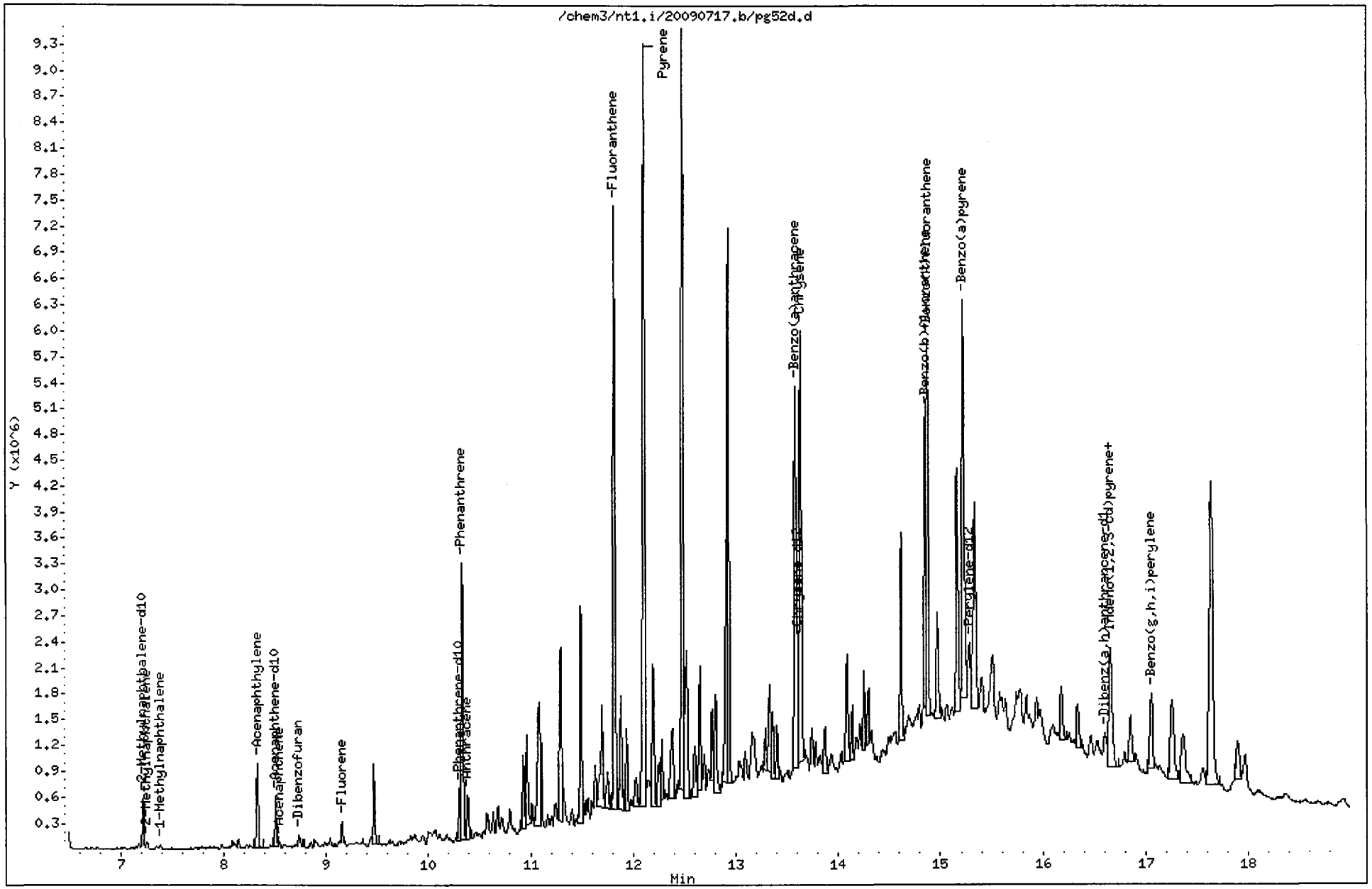
Client SDG: PG52
Fraction: SV
Client Smp ID: AHA-01-1SW(0-3)
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	136.7	121.8	89.09	34-100
$ 32 Dibenz(a,h)anthran	136.7	117.7	86.08	10-117

Data File: /chem3/nt1.i/20090717.b/pg52d.d
Date : 17-JUL-2009 22:54
Client ID: AHA-01-1SW(0-3)
Sample Info: PG52D
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

PG52:090553



Data File: /chem3/nt1.i/20090717.b/pg52d.d

Date : 17-JUL-2009 22:54

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D

Volume Injected (uL): 1.0

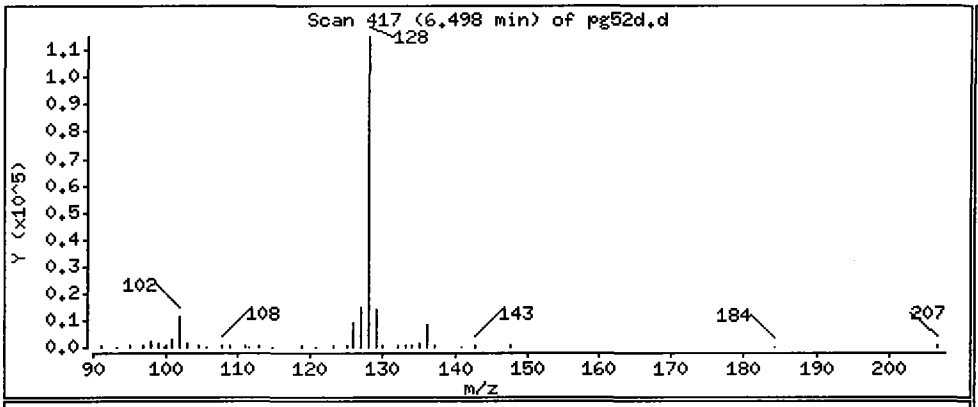
Operator: VTS

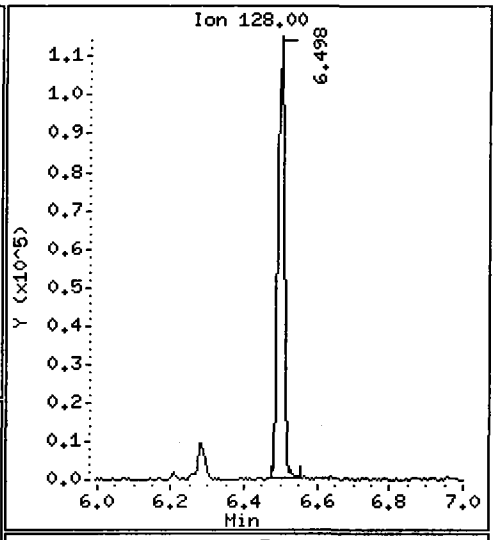
Column phase: ZB-5msi

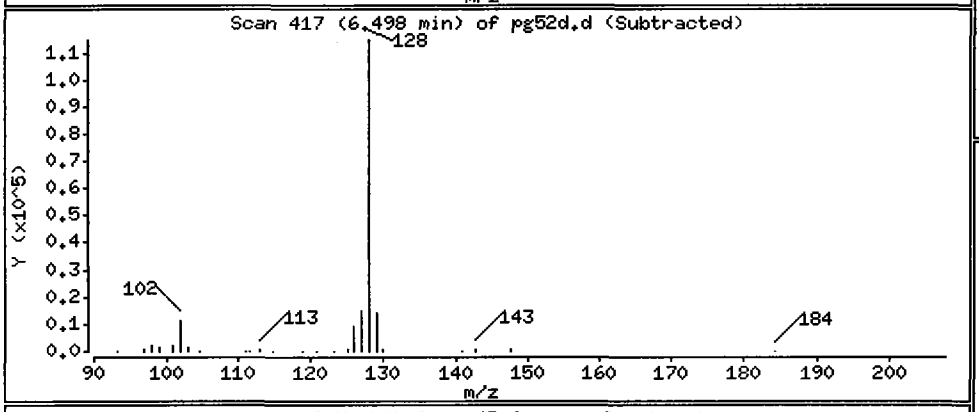
Column diameter: 0.25

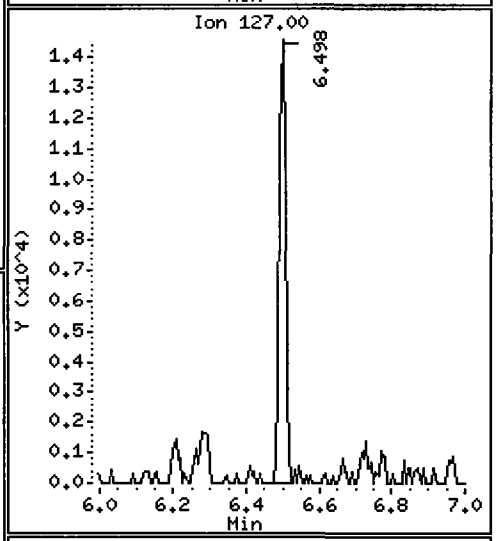
2 Naphthalene

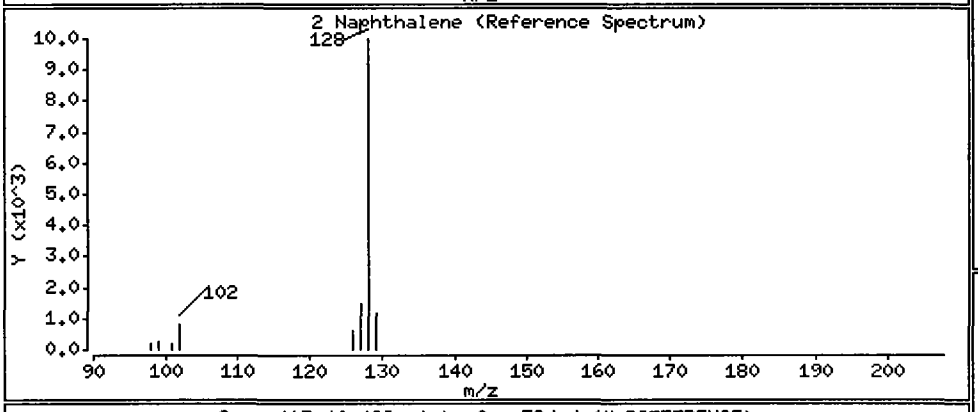
Concentration: 32.69 ug/kg

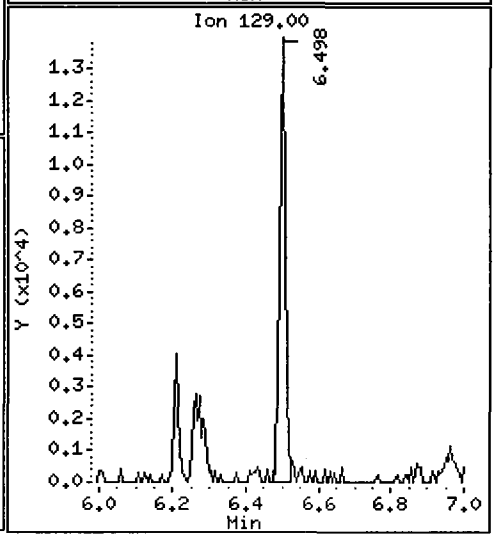


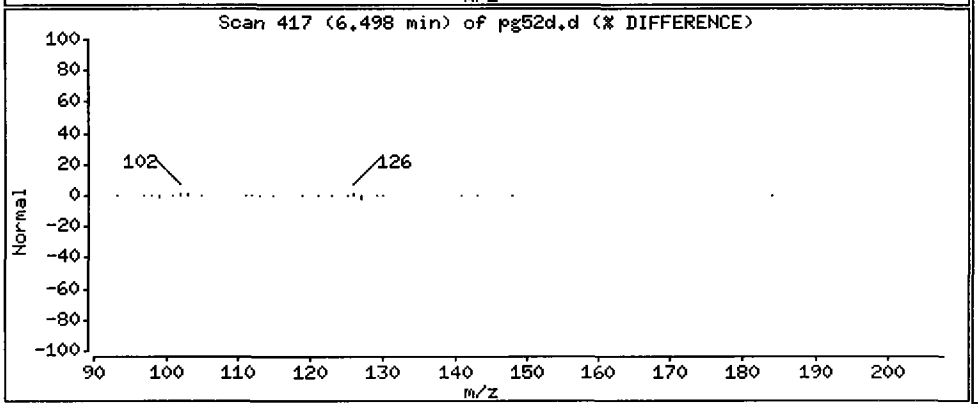












Data File: /chem3/nt1.i/20090717.b/pg52d.d

Date : 17-JUL-2009 22:54

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D

Volume Injected (uL): 1.0

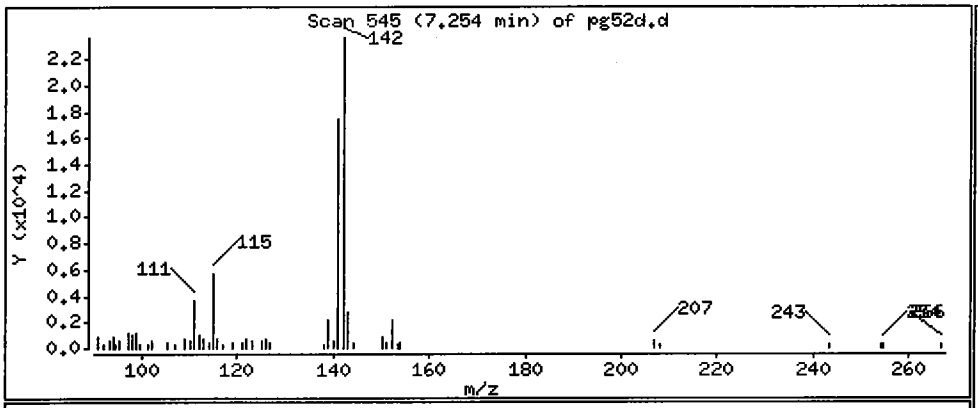
Operator: VTS

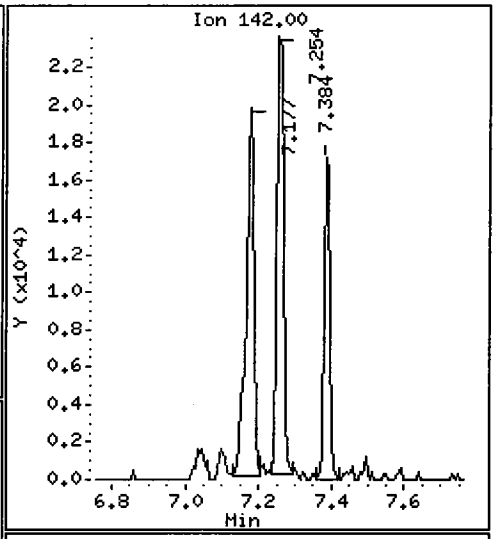
Column phase: ZB-5msi

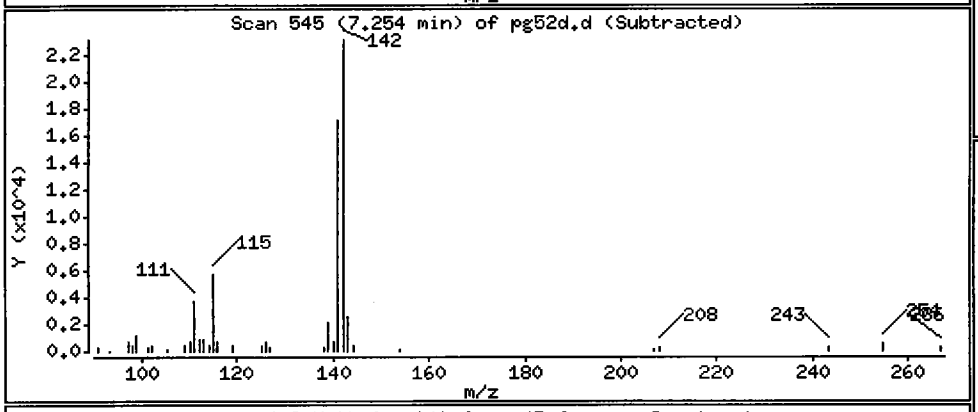
Column diameter: 0.25

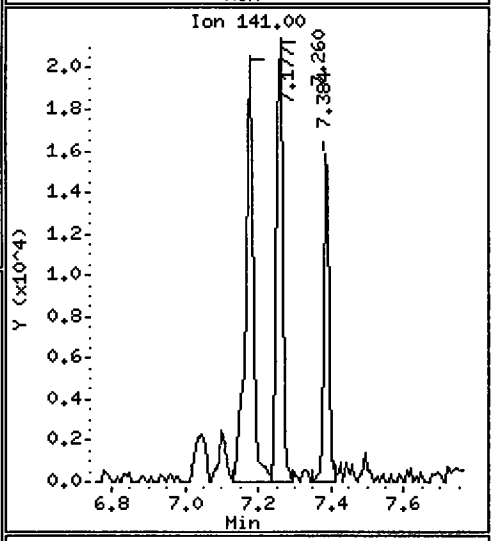
4 2-Methylnaphthalene

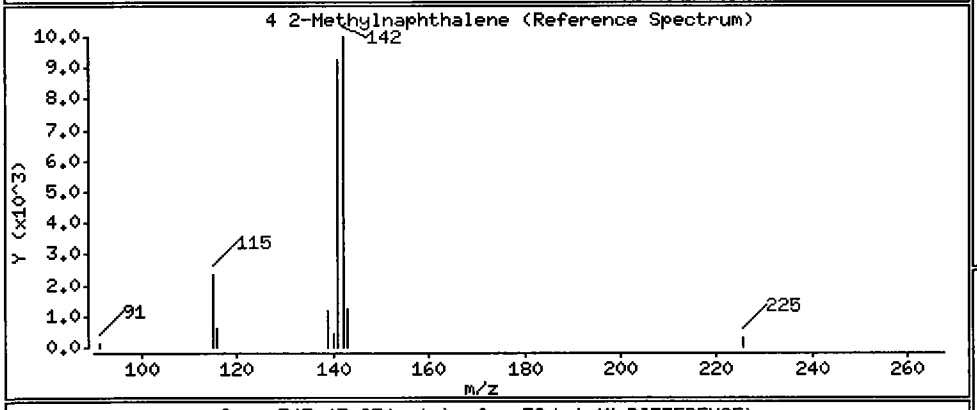
Concentration: 12.77 ug/kg

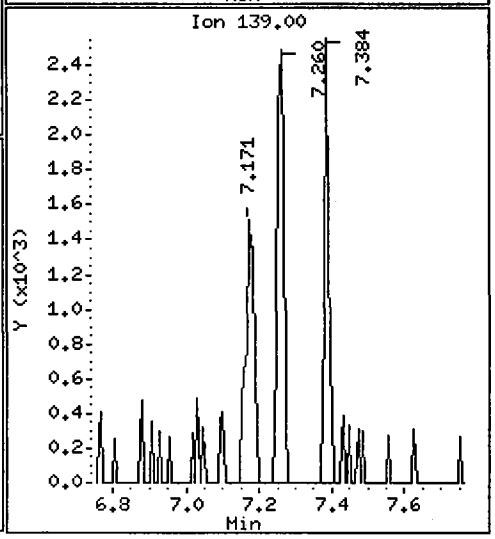


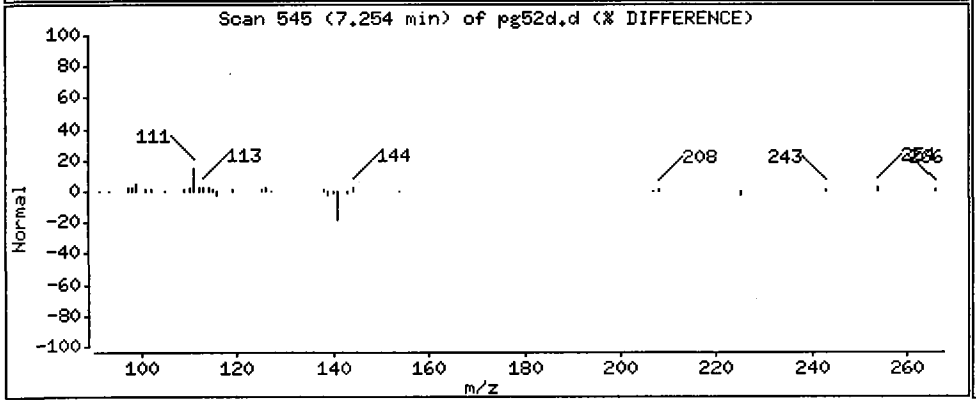












Data File: /chem3/nt1.i/20090717.b/pg52d.d

Date : 17-JUL-2009 22:54

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D

Volume Injected (uL): 1.0

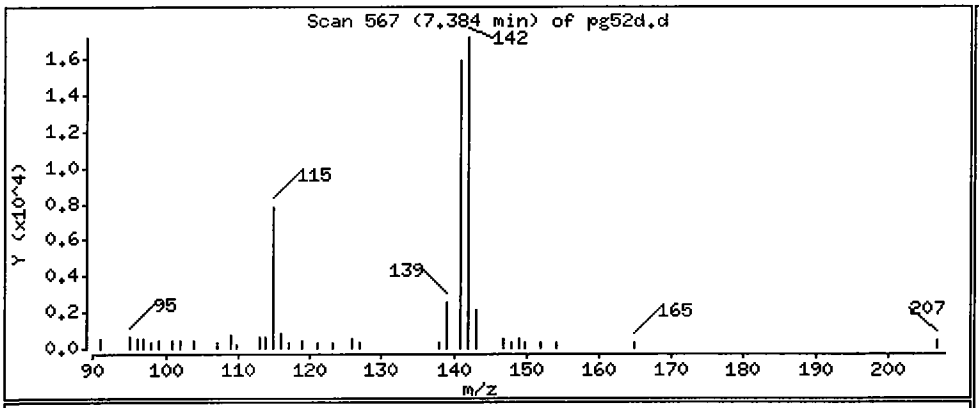
Operator: VTS

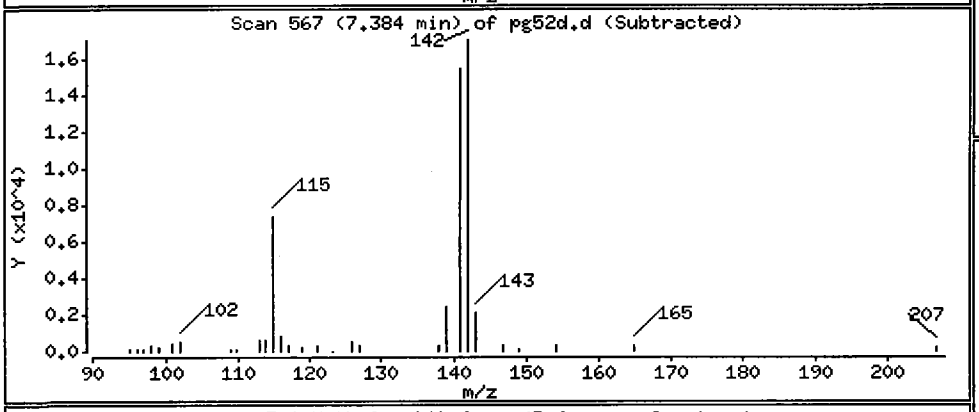
Column phase: ZB-5msi

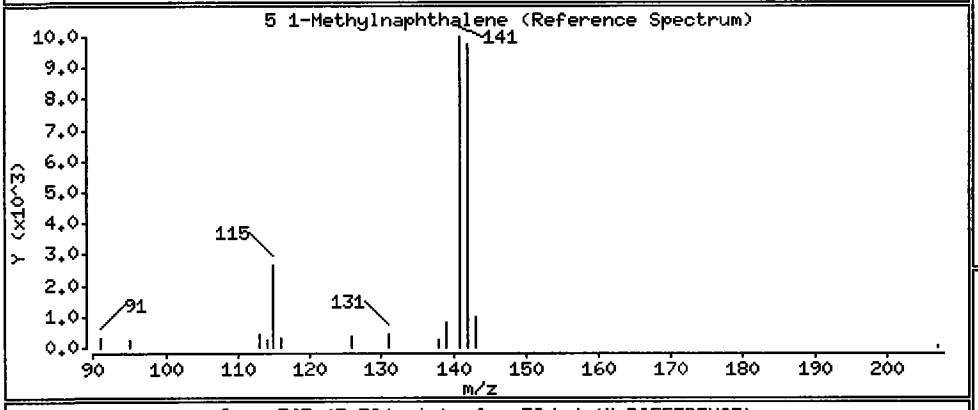
Column diameter: 0.25

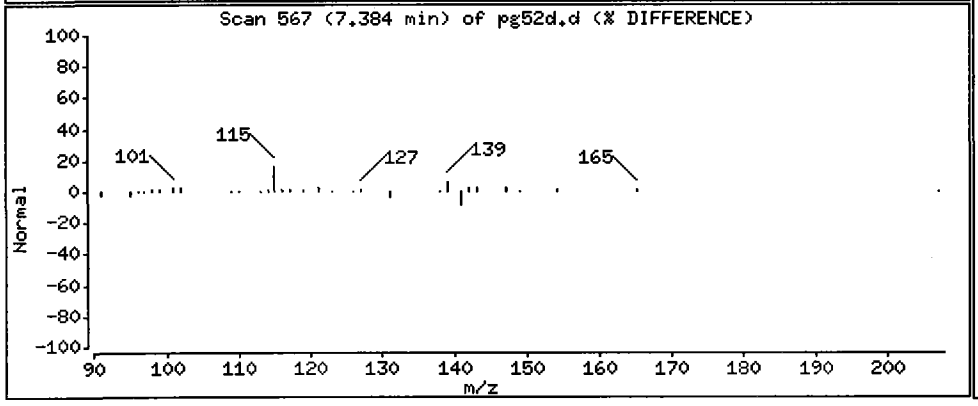
5 1-Methylnaphthalene

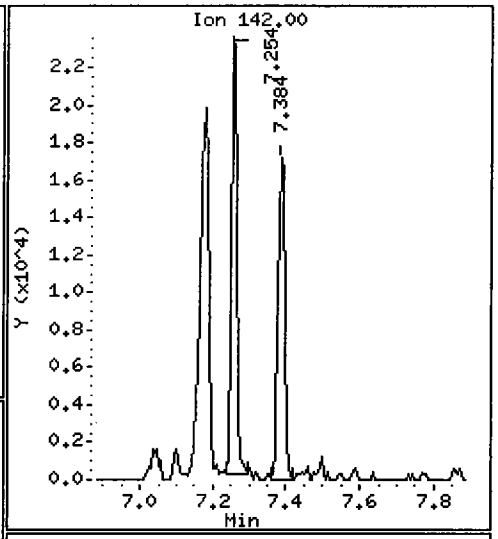
Concentration: 9.916 ug/kg

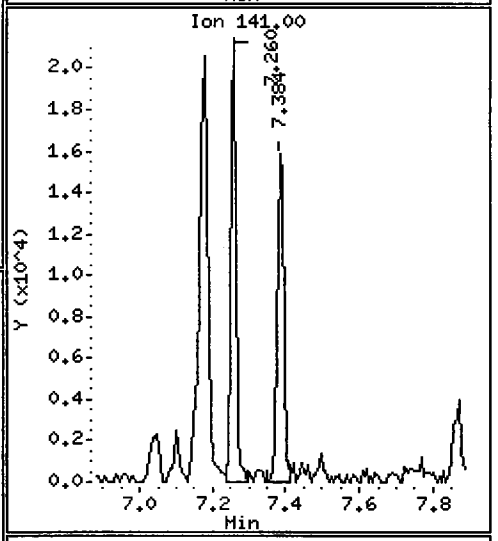


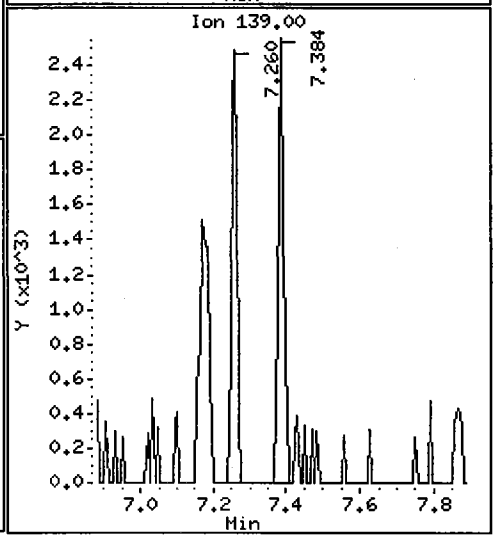












Data File: /chem3/nt1.i/20090717.b/pg52d.d

Date : 17-JUL-2009 22:54

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D

Volume Injected (uL): 1.0

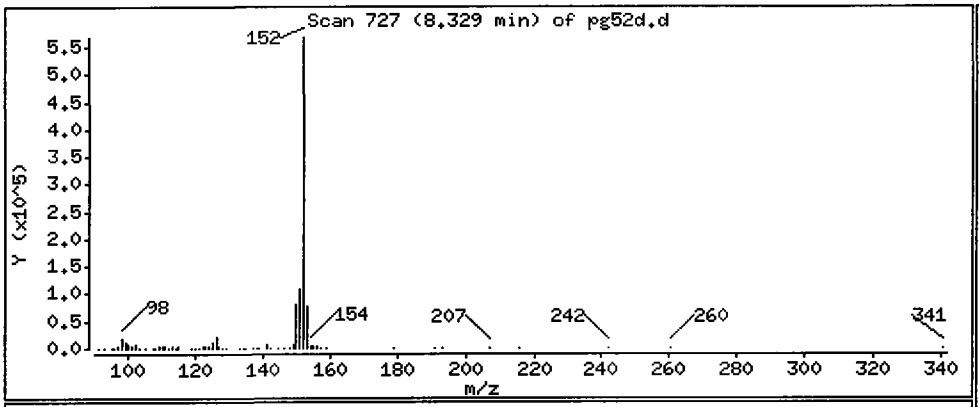
Operator: VTS

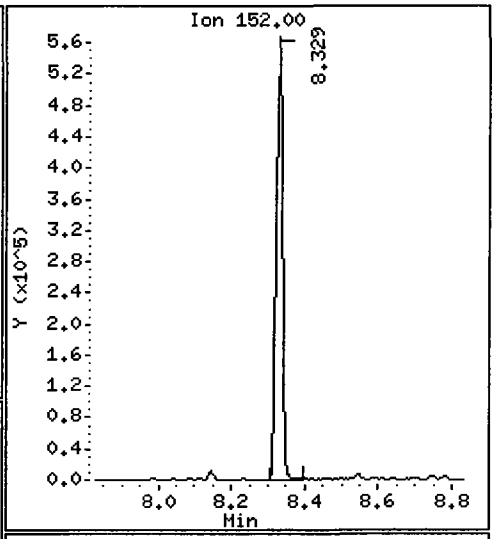
Column phase: ZB-5msi

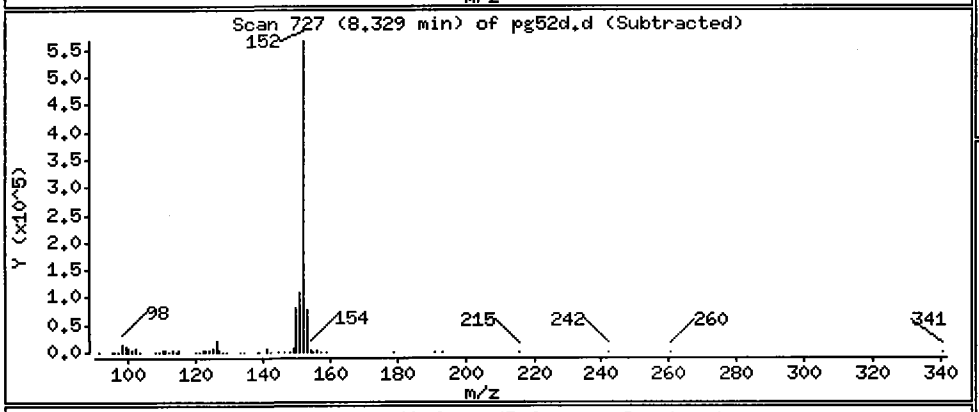
Column diameter: 0.25

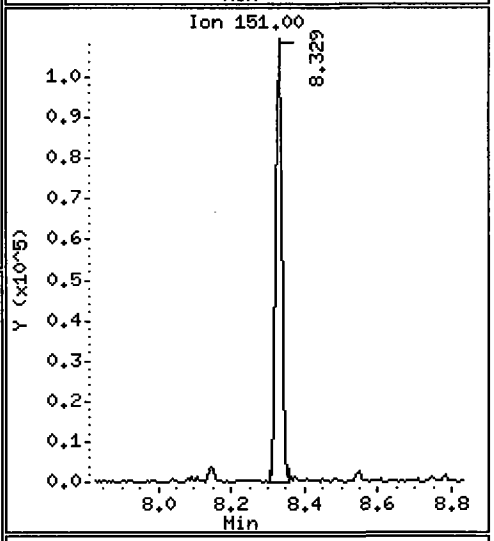
7 Acenaphthylene

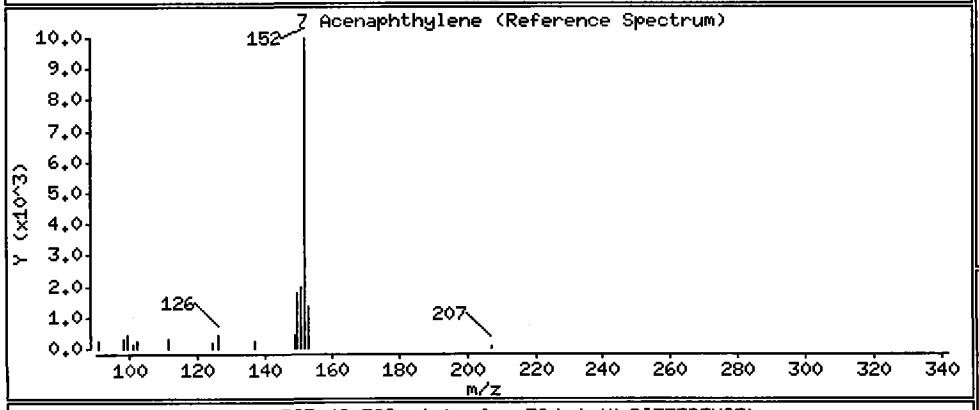
Concentration: 190.4 ug/kg

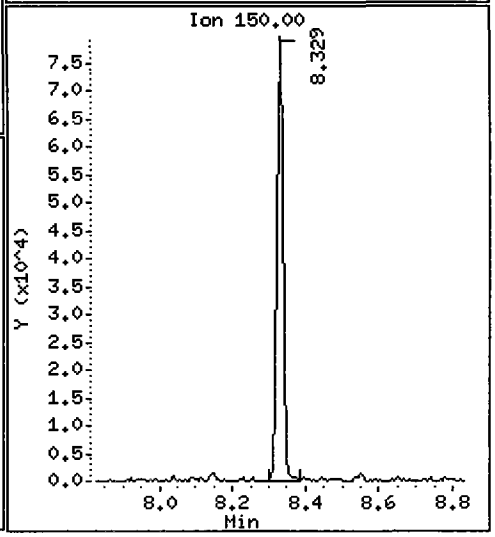


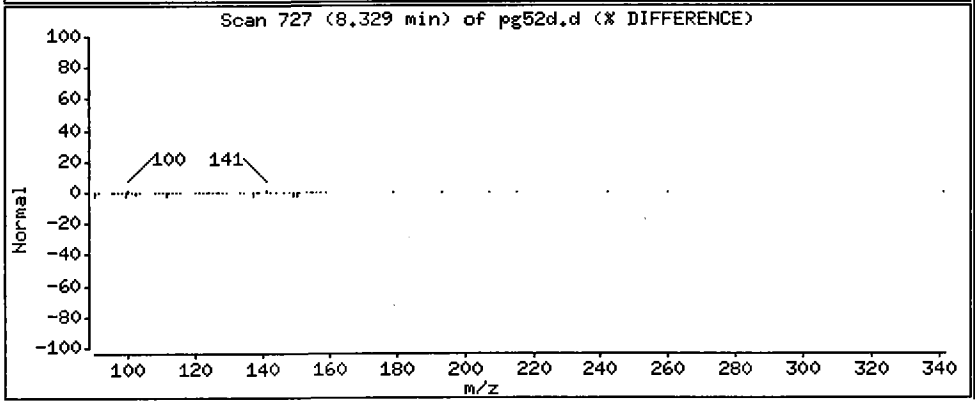












Data File: /chem3/nt1.i/20090717.b/pg52d.d

Date : 17-JUL-2009 22:54

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D

Volume Injected (uL): 1.0

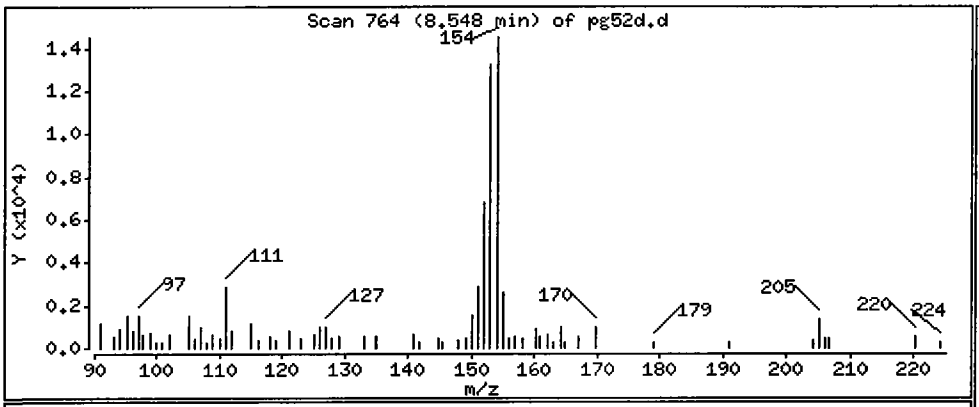
Operator: VTS

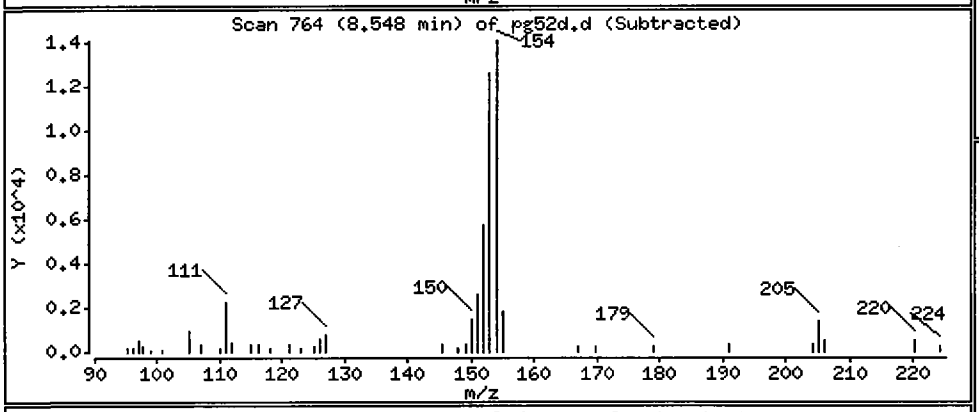
Column phase: ZB-5msi

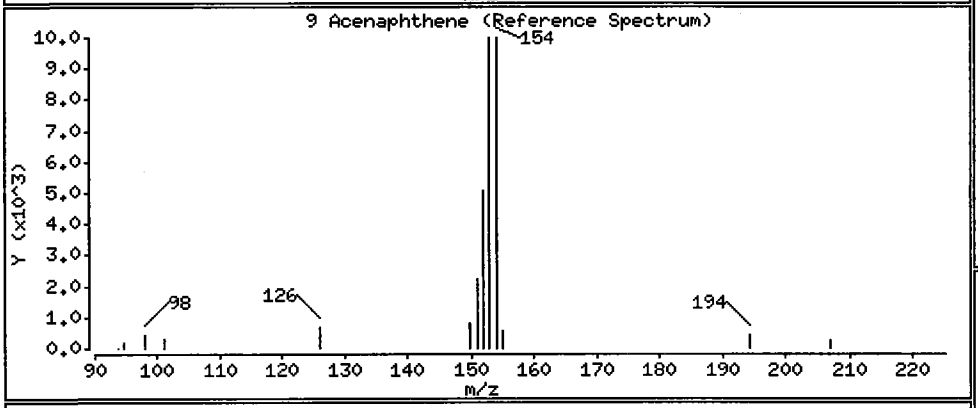
Column diameter: 0.25

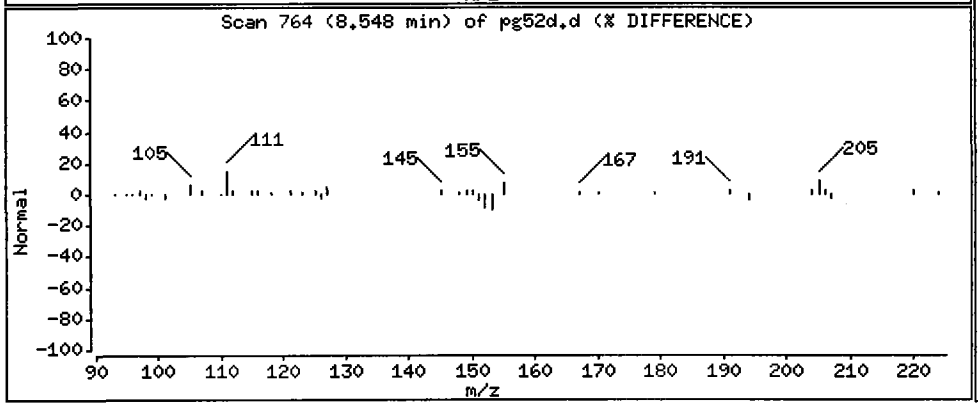
9 Acenaphthene

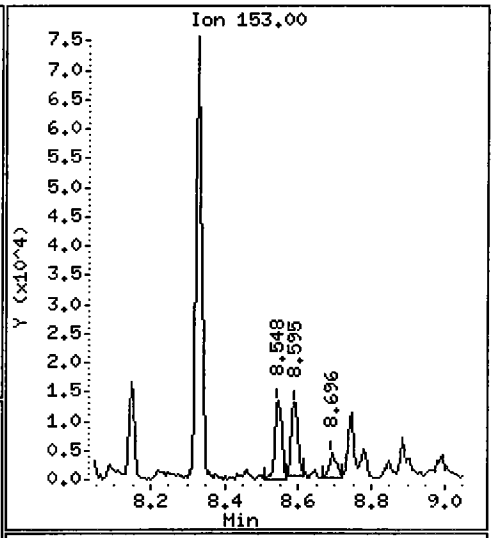
Concentration: 8.340 ug/kg

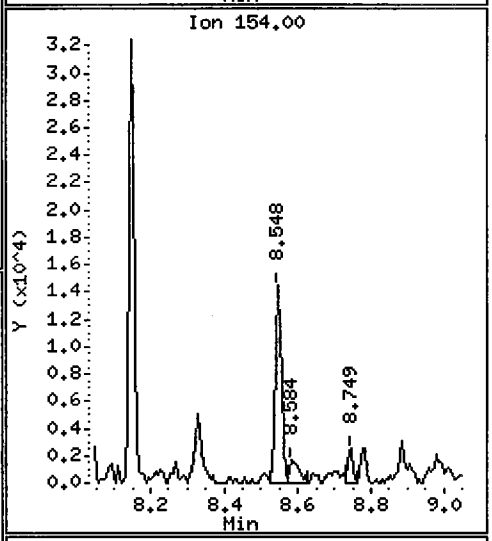


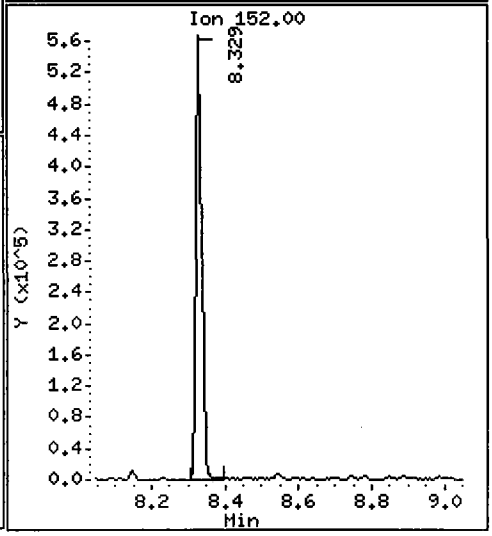












Data File: /chem3/nt1.i/20090717.b/pg52d.d

Date : 17-JUL-2009 22:54

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D

Volume Injected (uL): 1.0

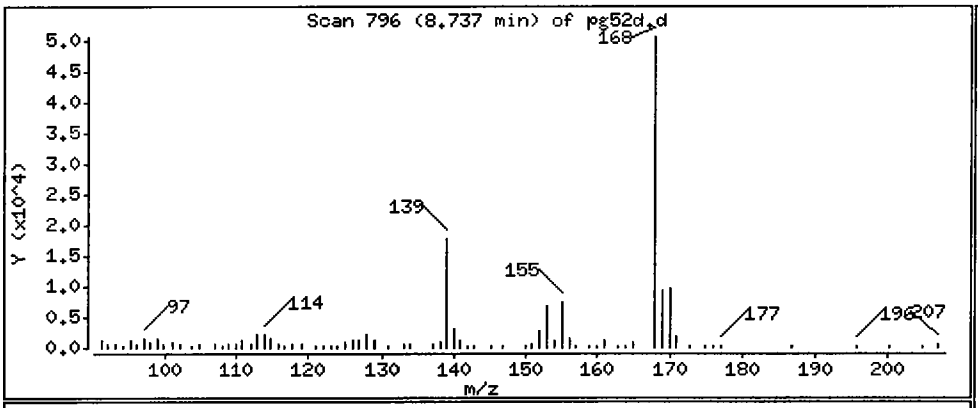
Operator: VTS

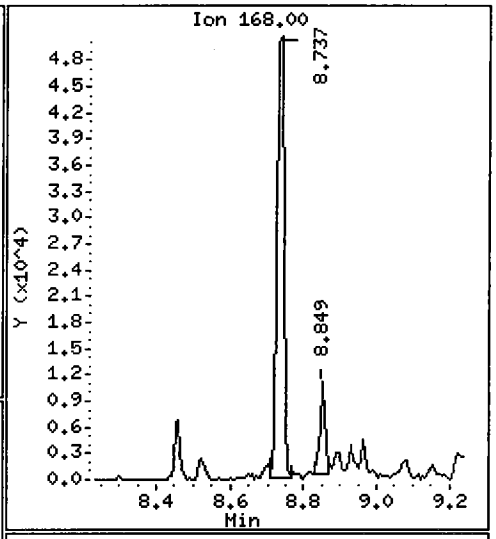
Column phase: ZB-5msi

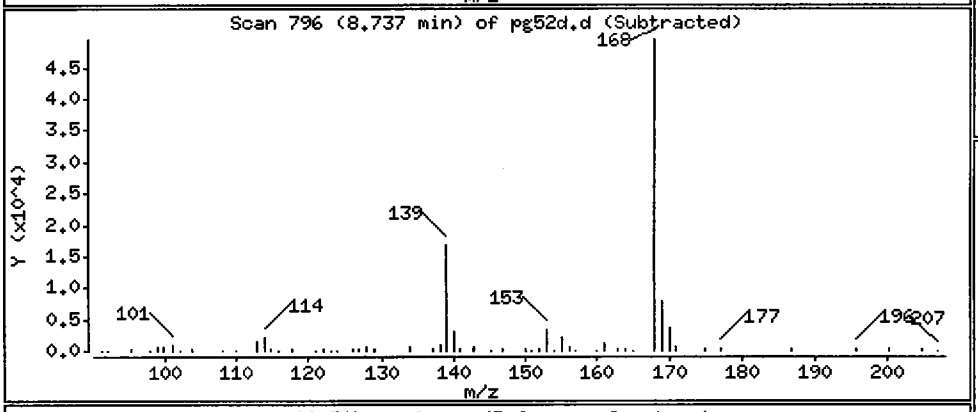
Column diameter: 0.25

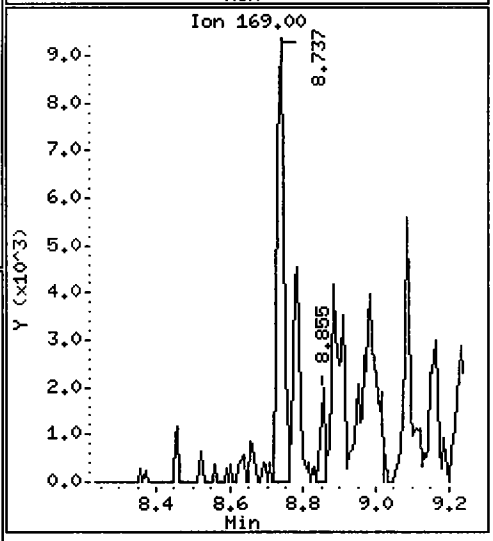
10 Dibenzofuran

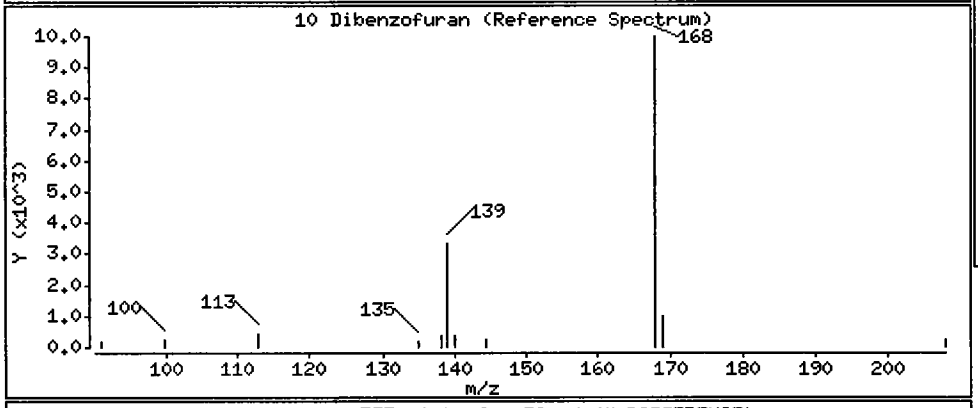
Concentration: 20.59 ug/kg

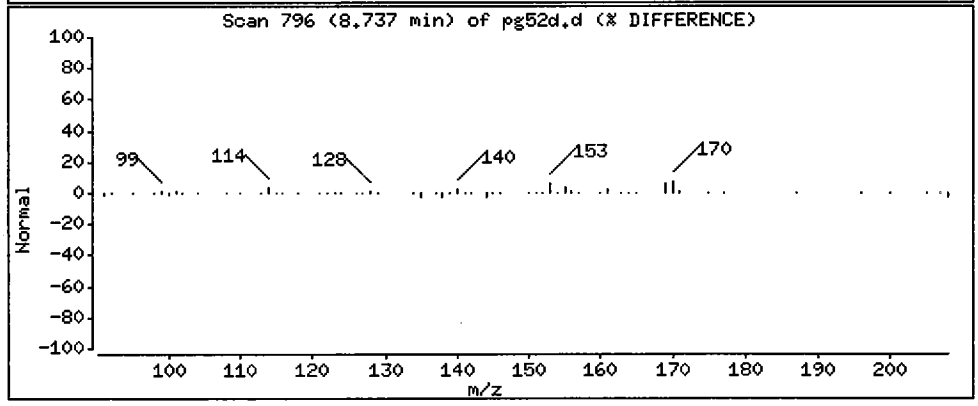












Data File: /chem3/nt1.i/20090717.b/pg52d.d

Date : 17-JUL-2009 22:54

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D

Volume Injected (uL): 1.0

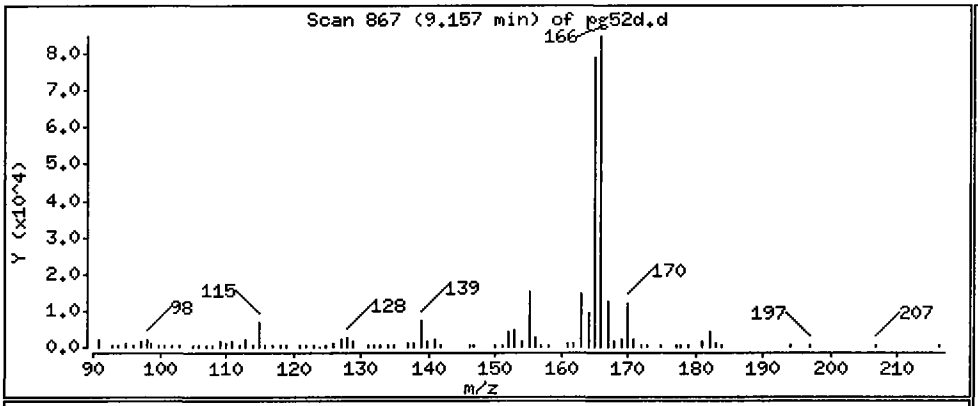
Operator: VTS

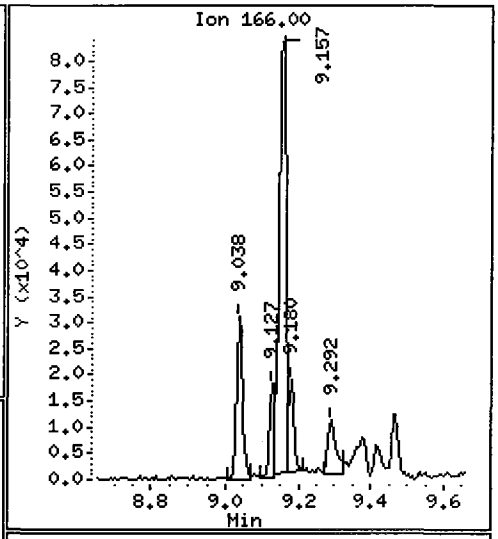
Column phase: ZB-5msi

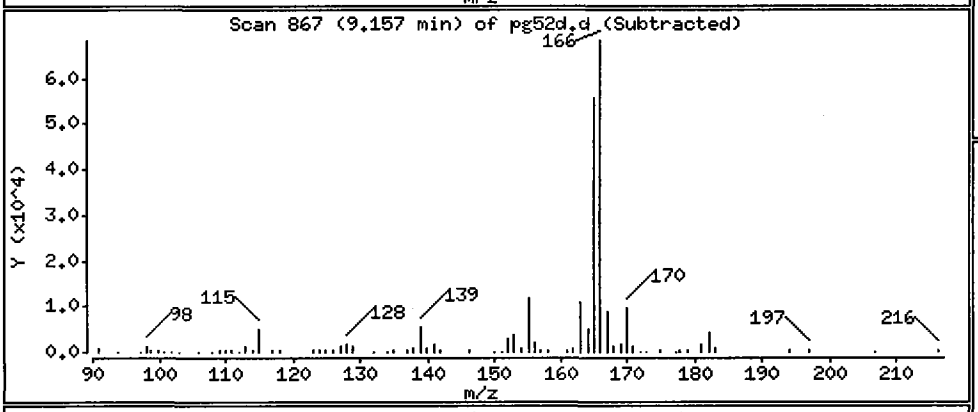
Column diameter: 0.25

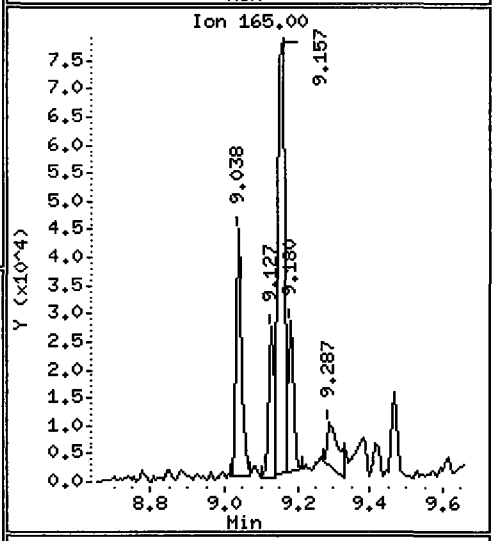
11 Fluorene

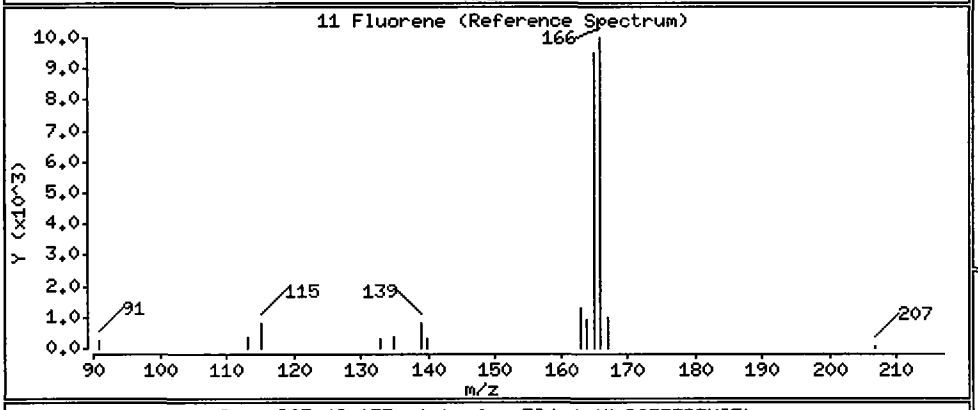
Concentration: 49.46 ug/kg

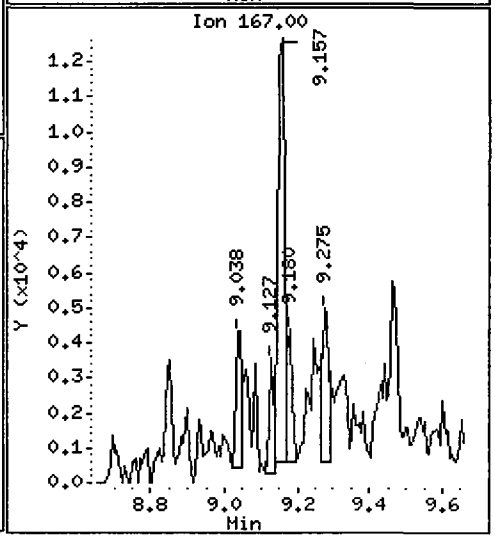


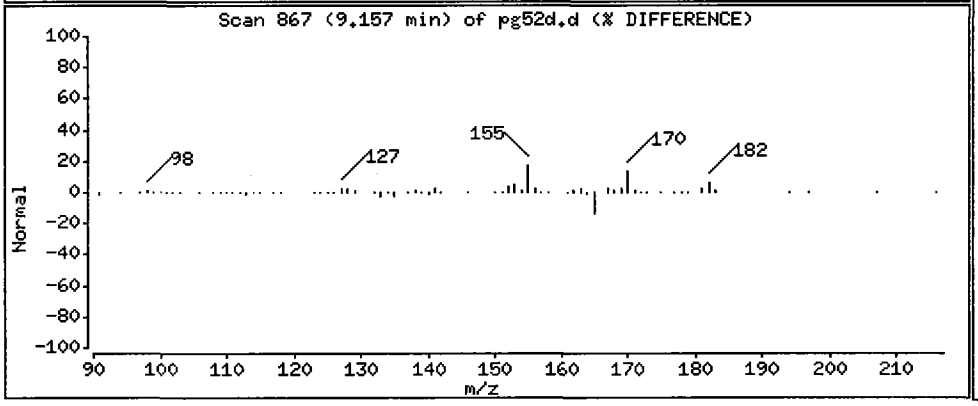












Data File: /chem3/nt1.i/20090717.b/pg52d.d

Date : 17-JUL-2009 22:54

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D

Volume Injected (uL): 1.0

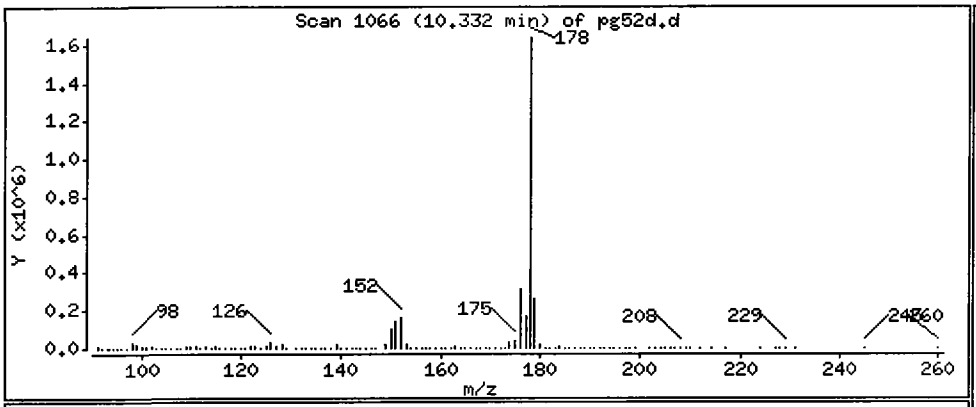
Operator: VTS

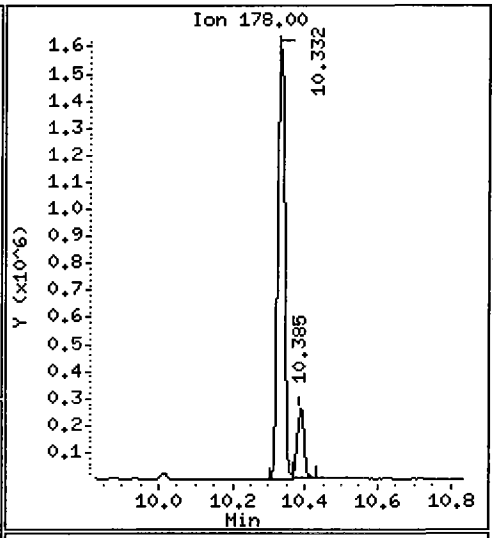
Column phase: ZB-5msi

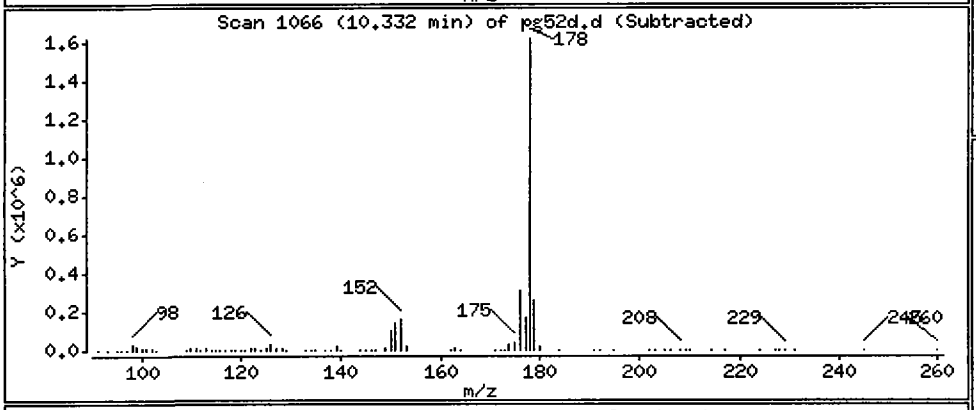
Column diameter: 0.25

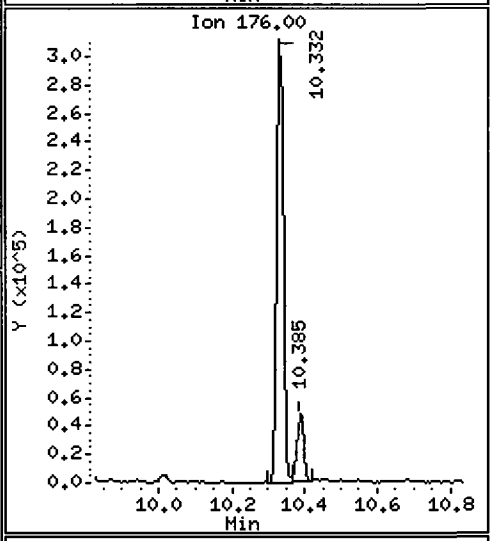
16 Phenanthrene

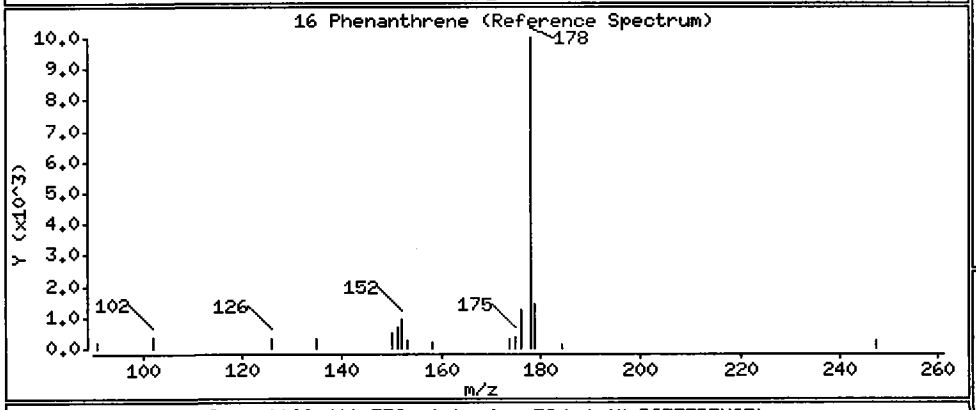
Concentration: 635.7 ug/kg

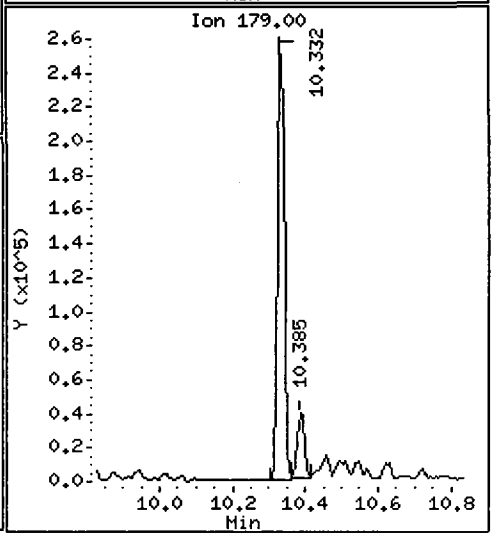


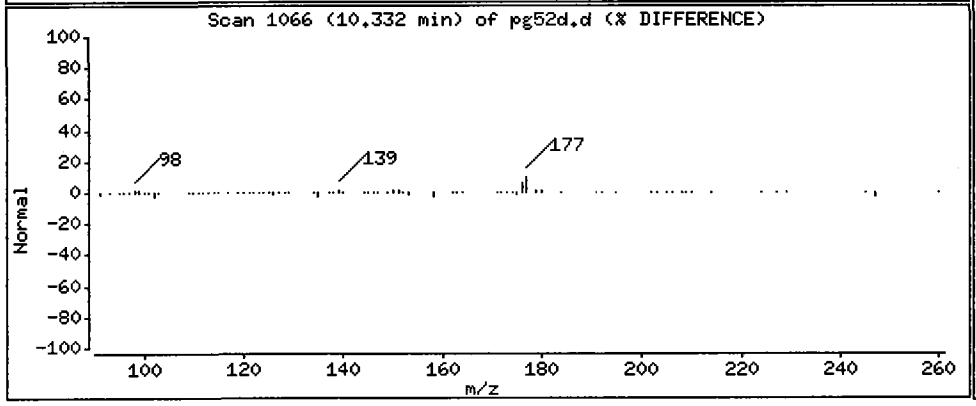












Data File: /chem3/nt1.i/20090717.b/pg52d.d

Date : 17-JUL-2009 22:54

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D

Volume Injected (uL): 1.0

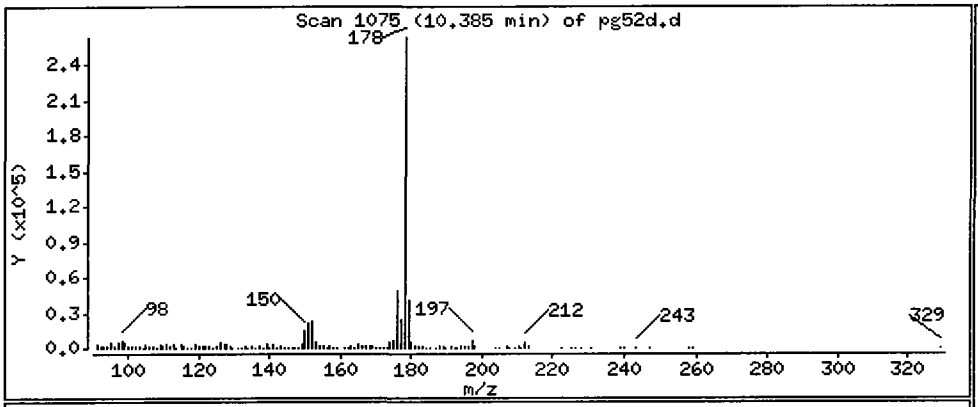
Operator: VTS

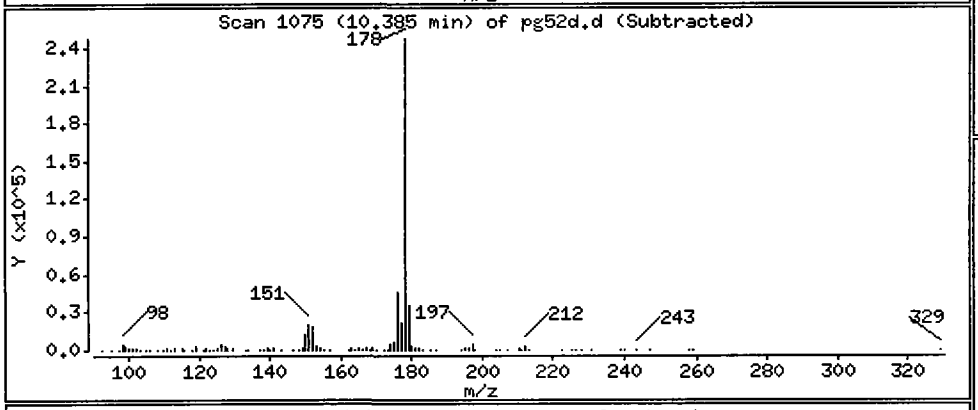
Column phase: ZB-5msi

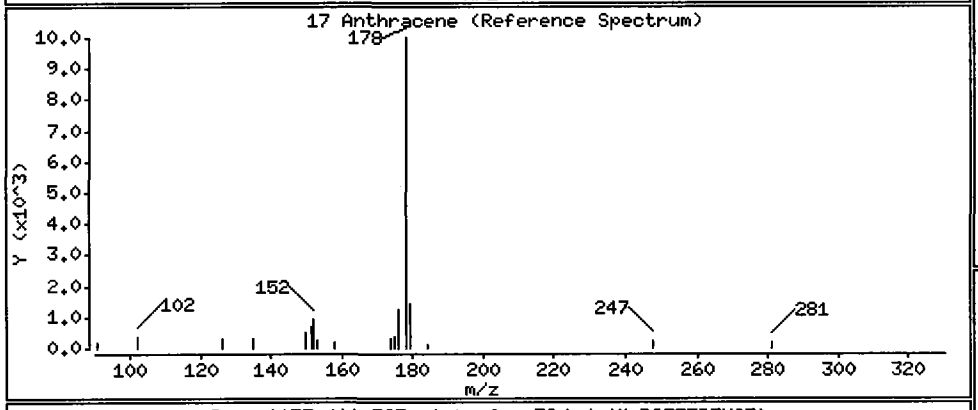
Column diameter: 0.25

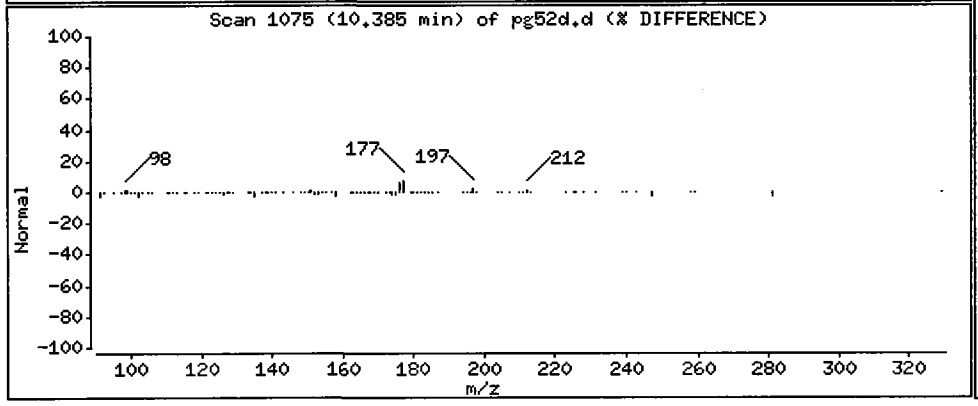
17 Anthracene

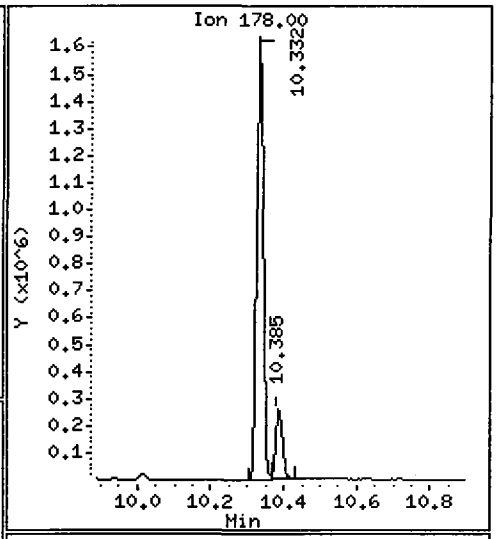
Concentration: 104.6 ug/kg

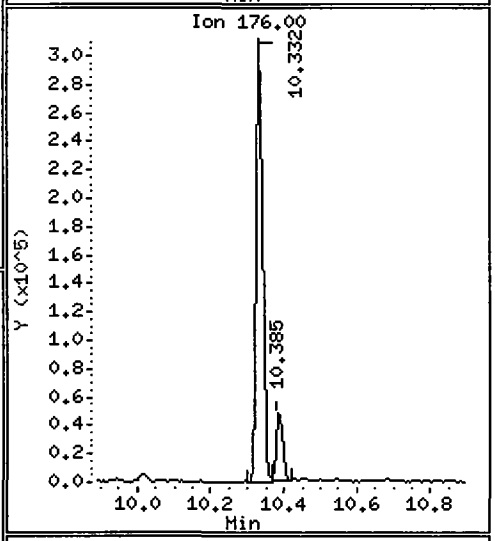


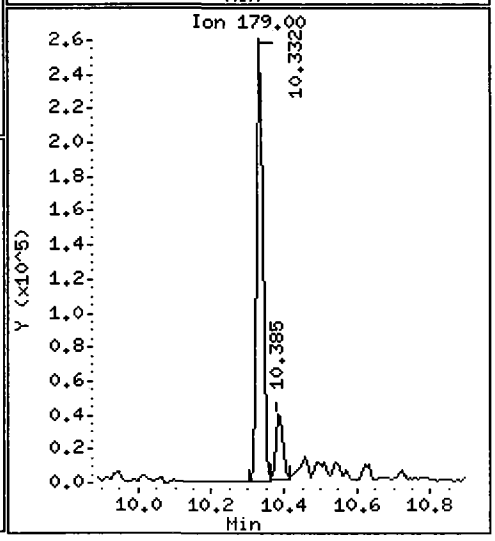












Data File: /chem3/nt1.i/20090717.b/pg52d.d

Date : 17-JUL-2009 22:54

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D

Volume Injected (uL): 1.0

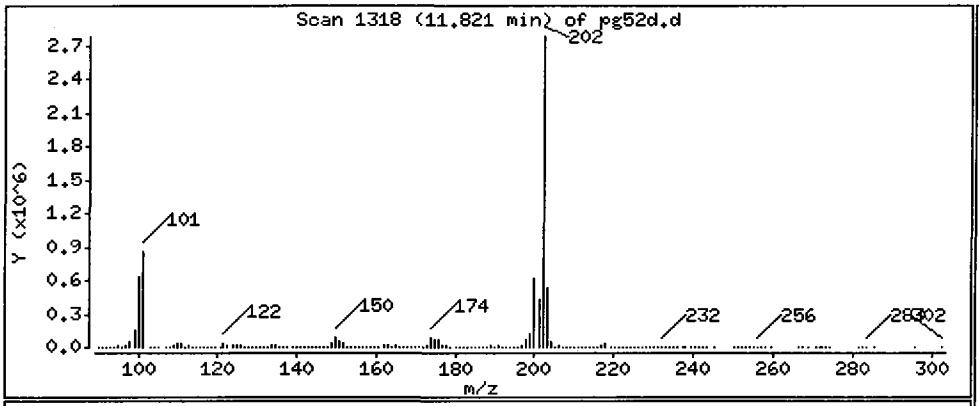
Operator: VTS

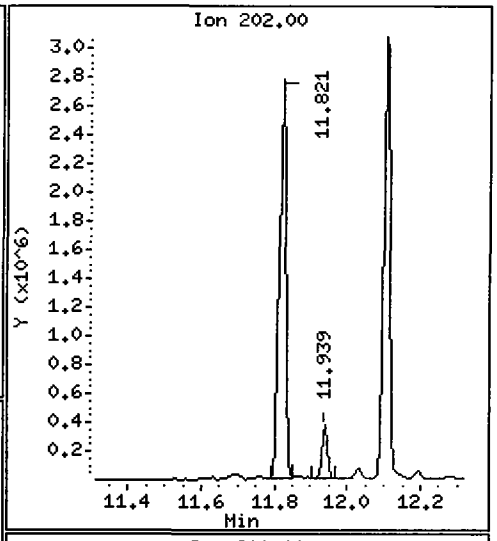
Column phase: ZB-5msi

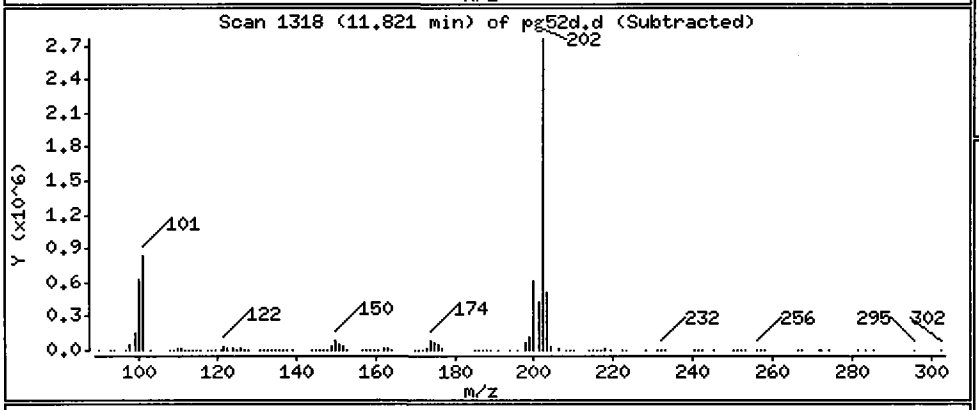
Column diameter: 0.25

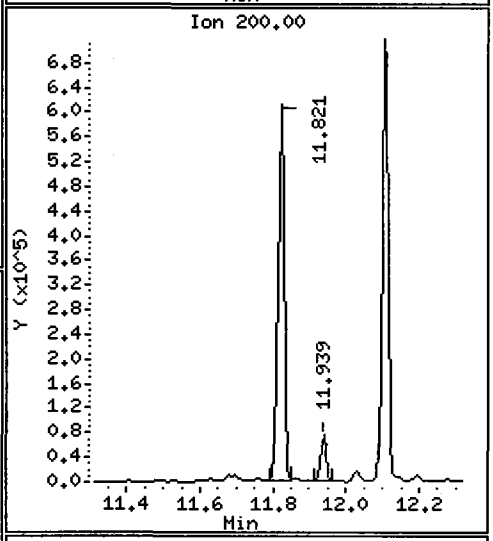
19 Fluoranthene

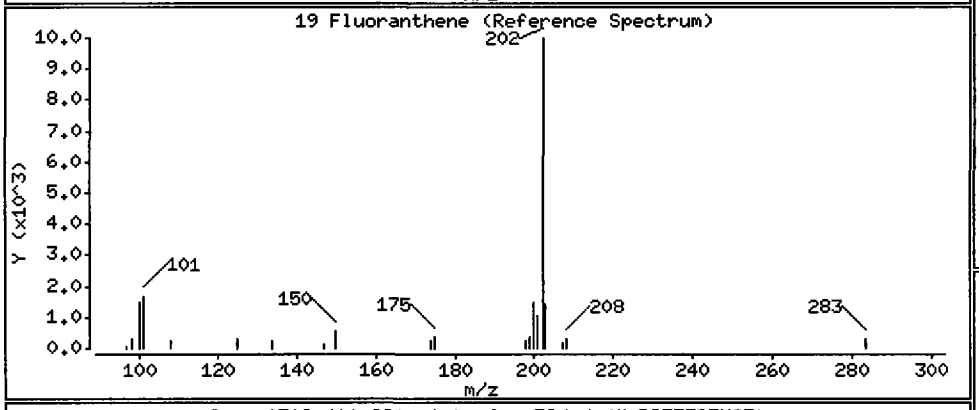
Concentration: 1197 ug/kg

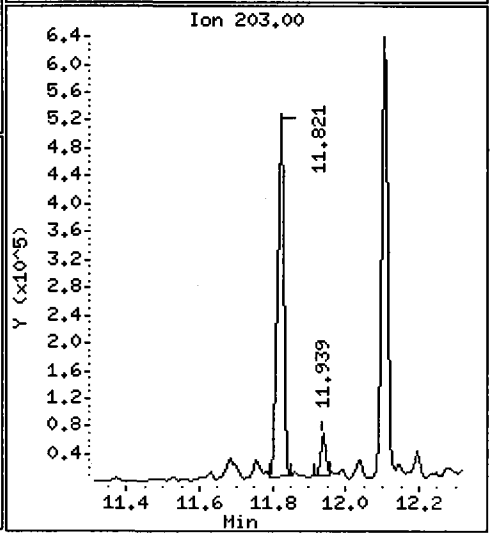


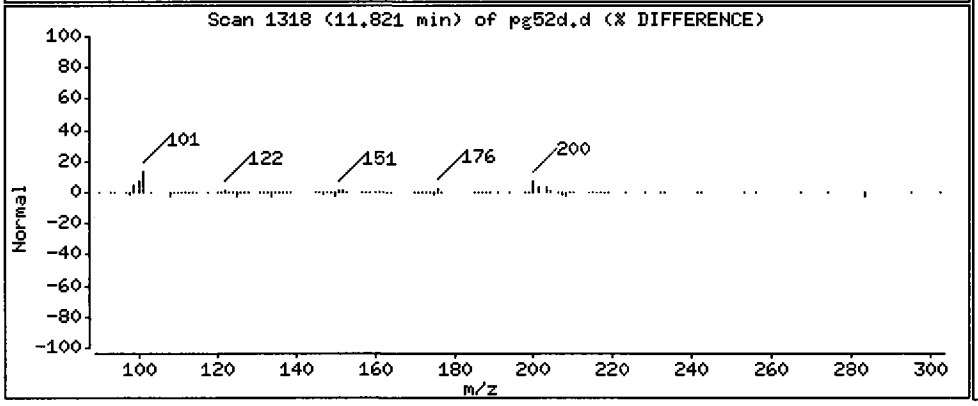












Data File: /chem3/nt1.i/20090717.b/pg52d.d

Date : 17-JUL-2009 22:54

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D

Volume Injected (uL): 1.0

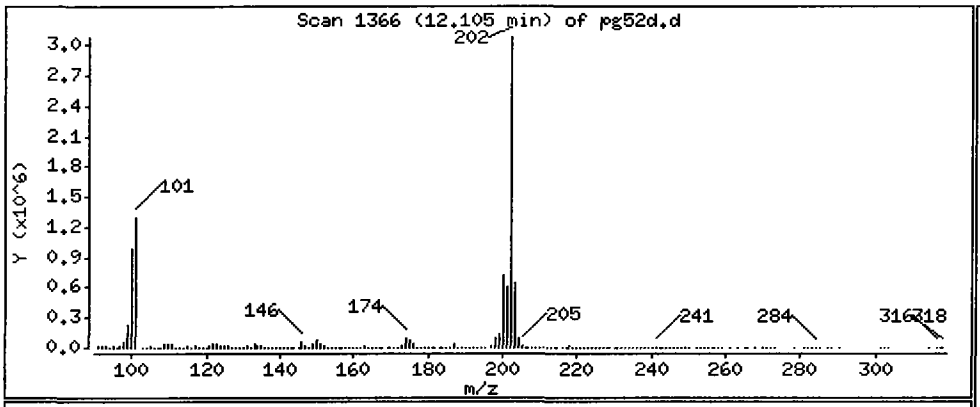
Operator: VTS

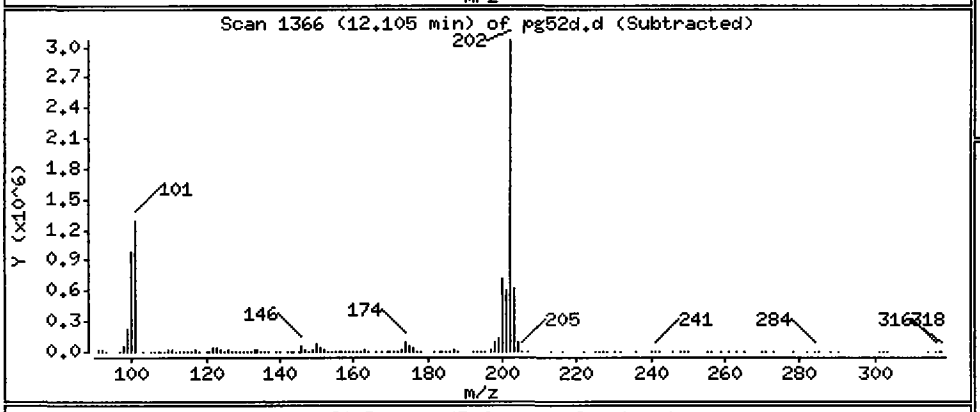
Column phase: ZB-5msi

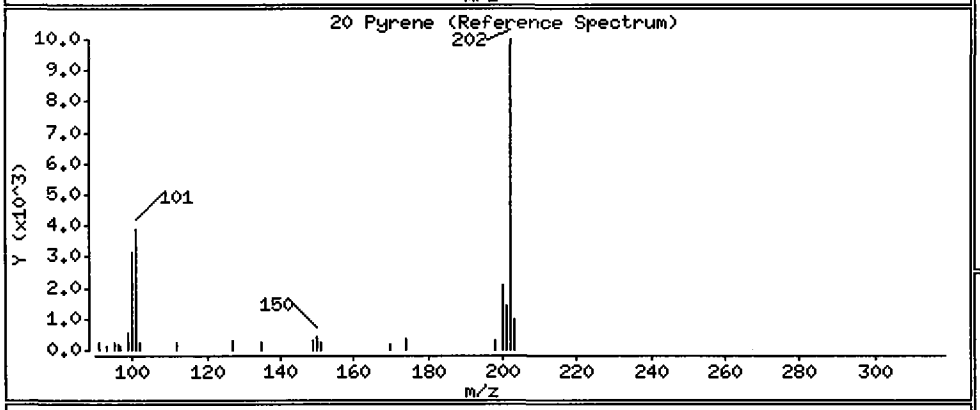
Column diameter: 0.25

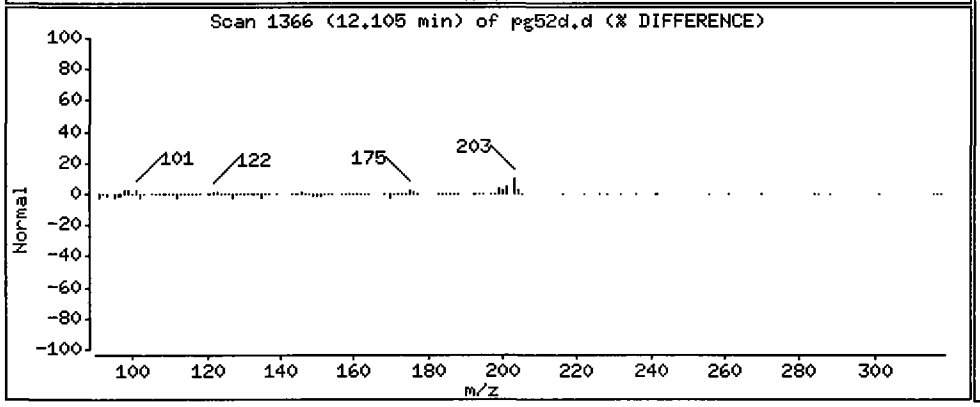
20 Pyrene

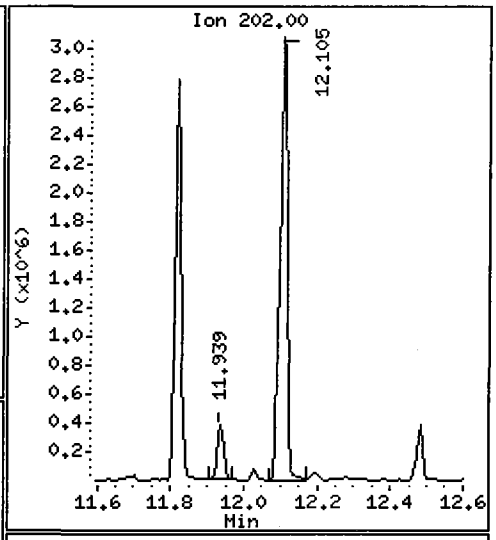
Concentration: 1031 ug/kg

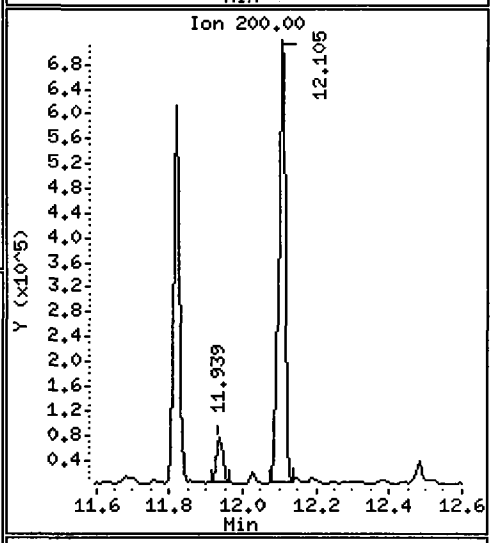


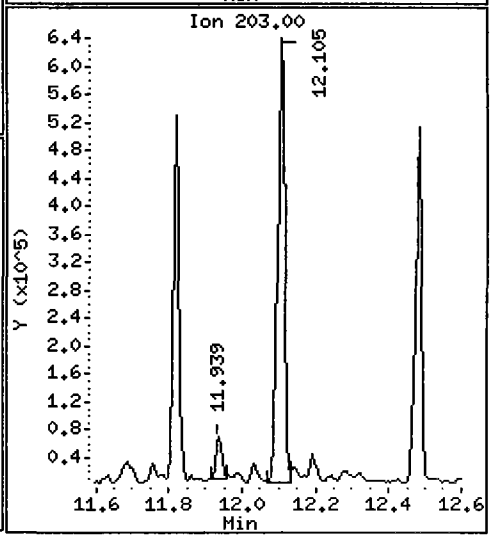












Data File: /chem3/nt1.i/20090717.b/pg52d.d

Date : 17-JUL-2009 22:54

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D

Volume Injected (uL): 1.0

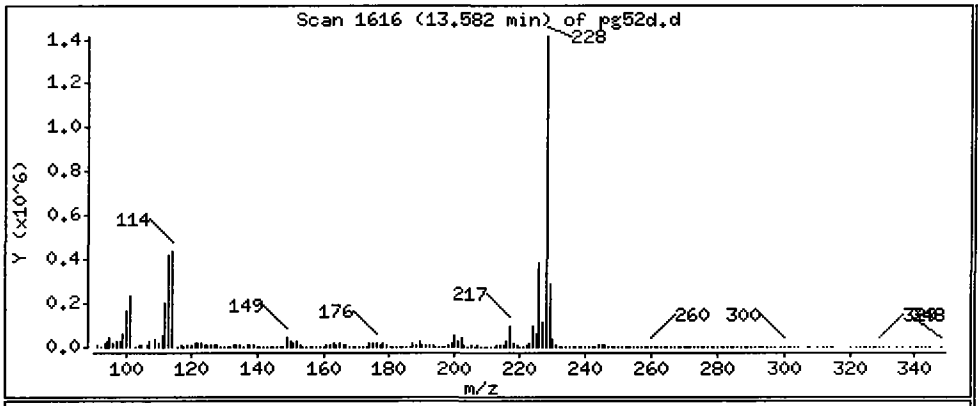
Operator: VTS

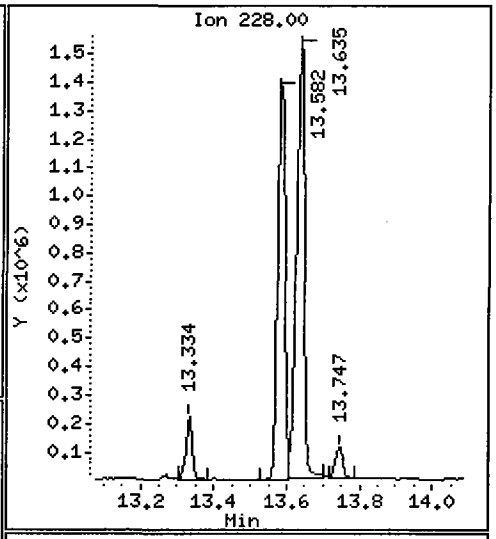
Column phase: ZB-5msi

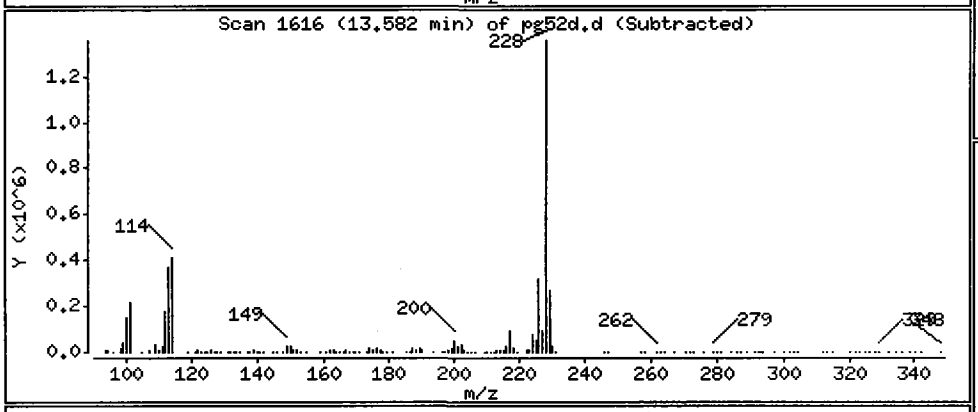
Column diameter: 0.25

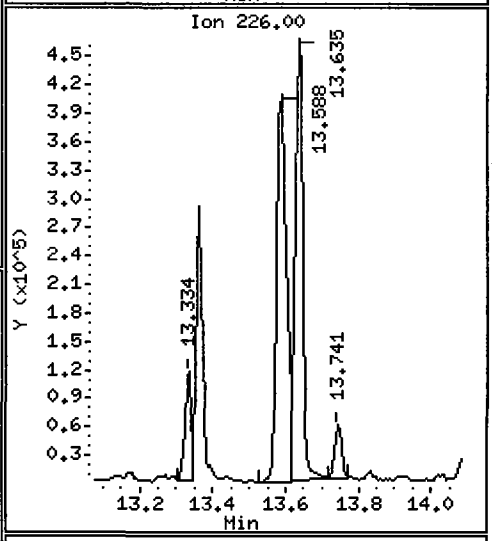
22 Benzo(a)anthracene

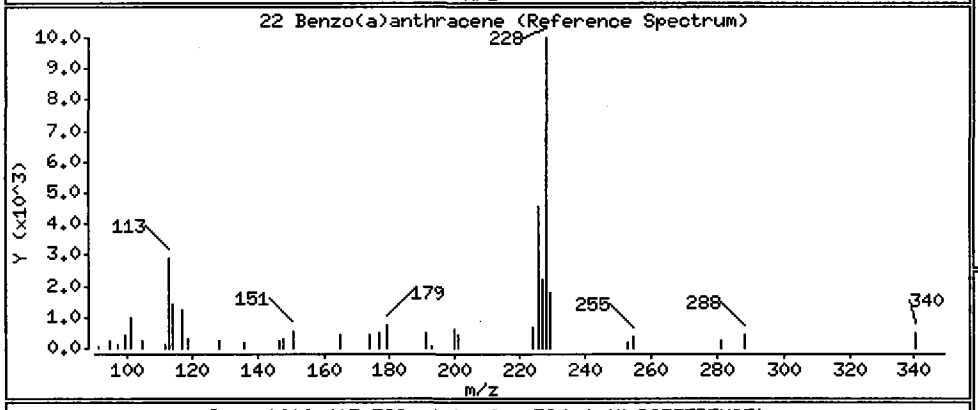
Concentration: 629.2 ug/kg

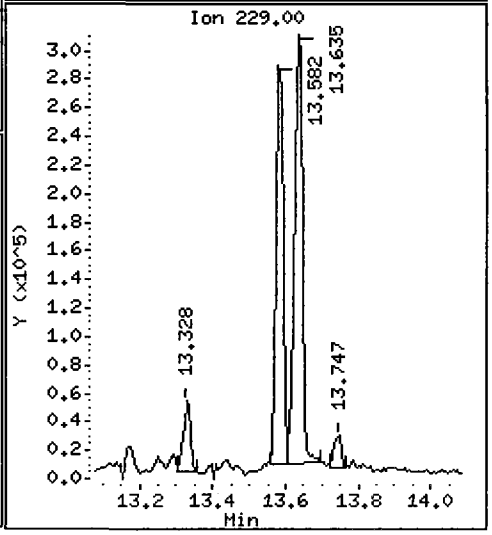


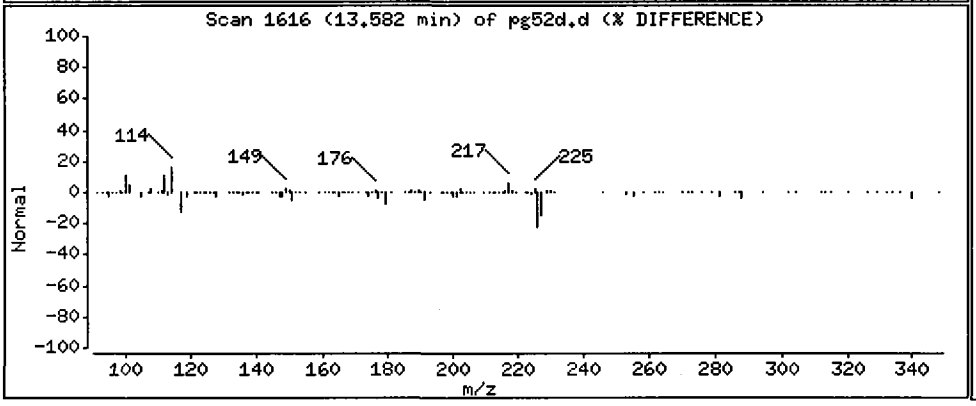












Data File: /chem3/nt1.i/20090717.b/pg52d.d

Date : 17-JUL-2009 22:54

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D

Volume Injected (uL): 1.0

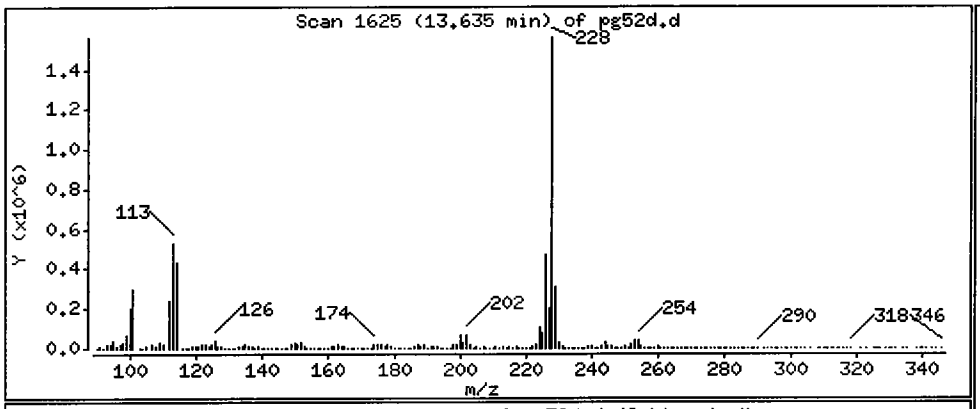
Operator: VTS

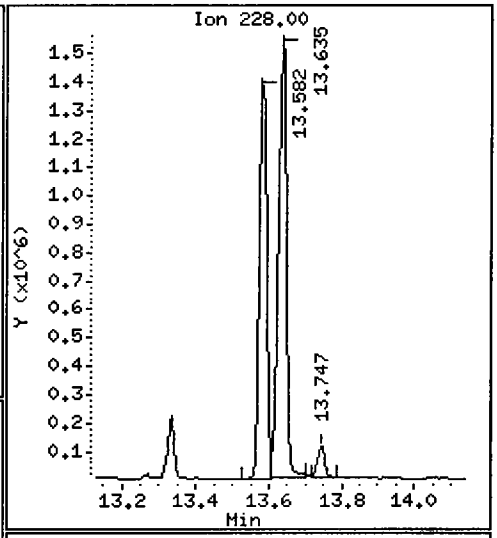
Column phase: ZB-5msi

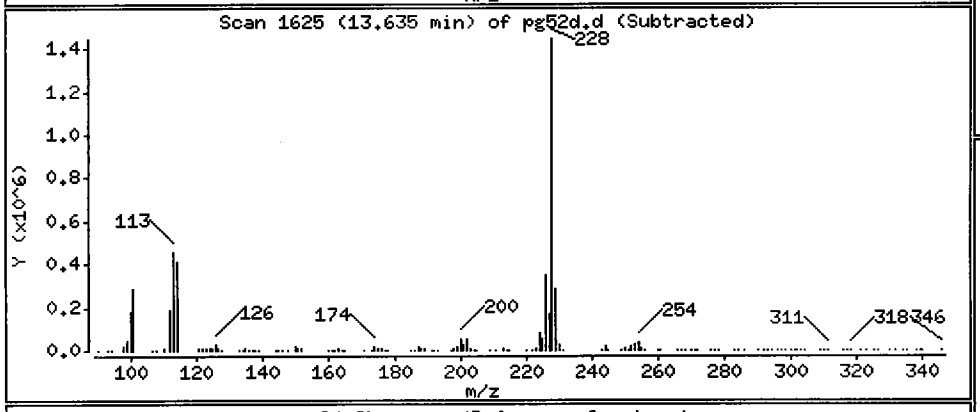
Column diameter: 0.25

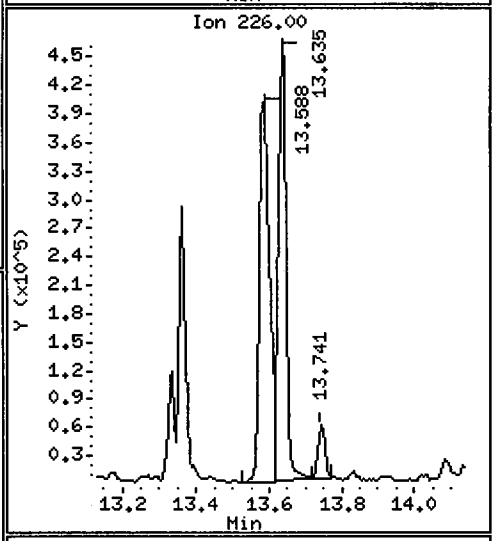
24 Chrysene

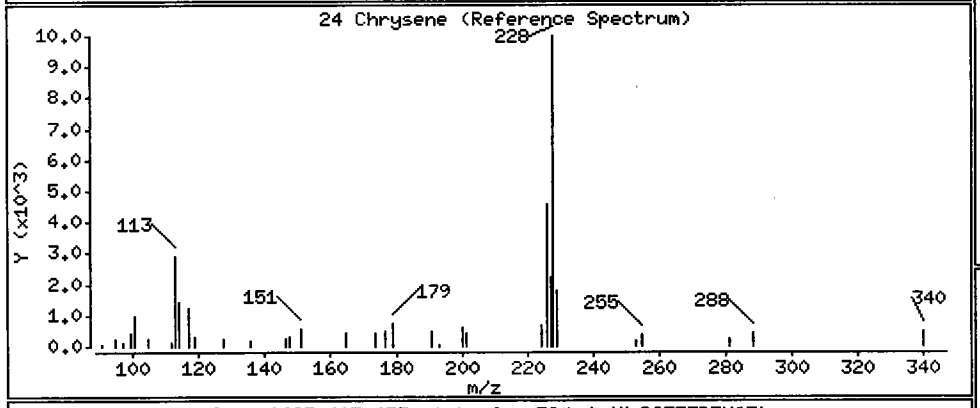
Concentration: 737.8 ug/kg

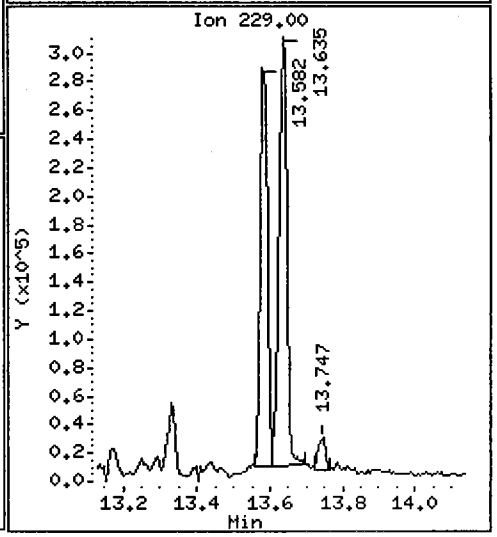


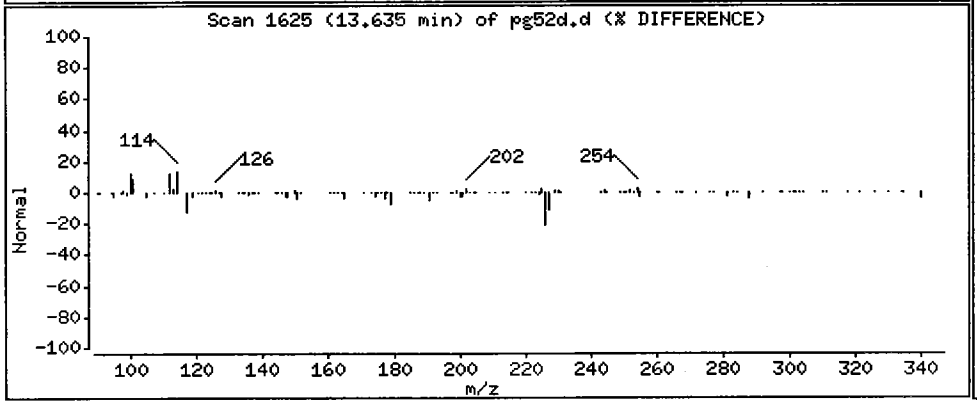












Data File: /chem3/nt1.i/20090717.b/pg52d.d

Date : 17-JUL-2009 22:54

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D

Volume Injected (uL): 1.0

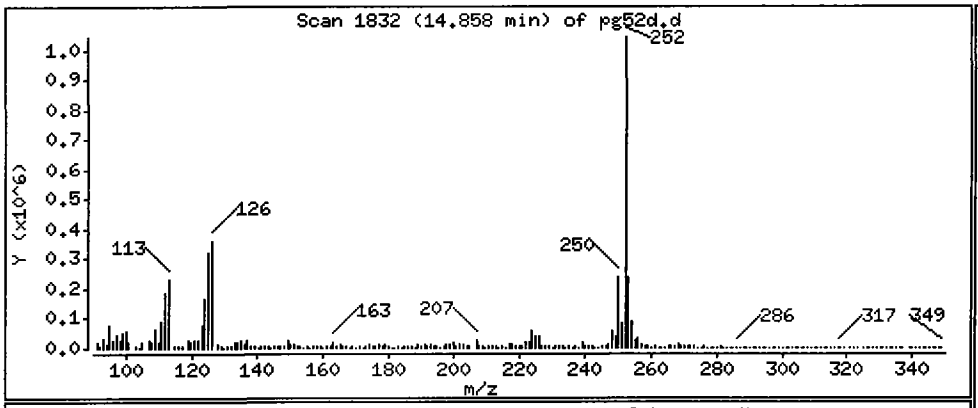
Operator: VTS

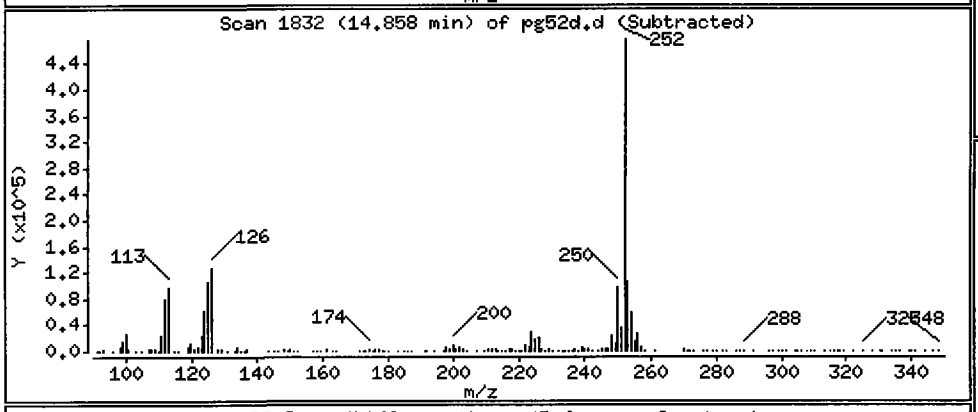
Column phase: ZB-5msi

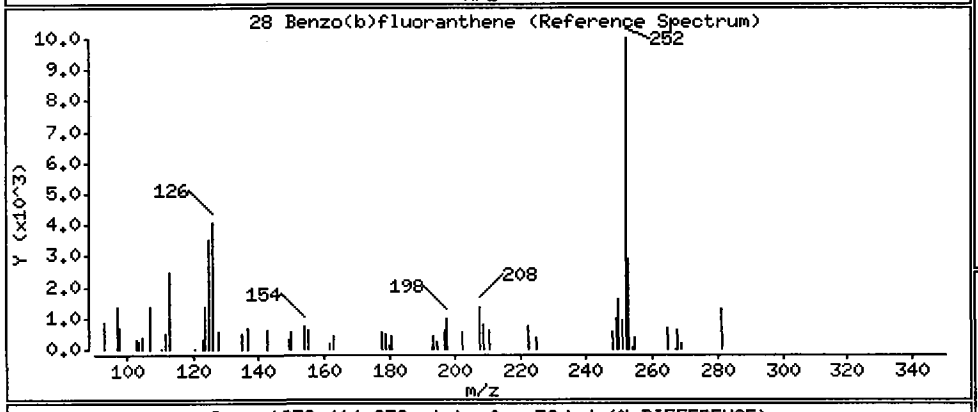
Column diameter: 0.25

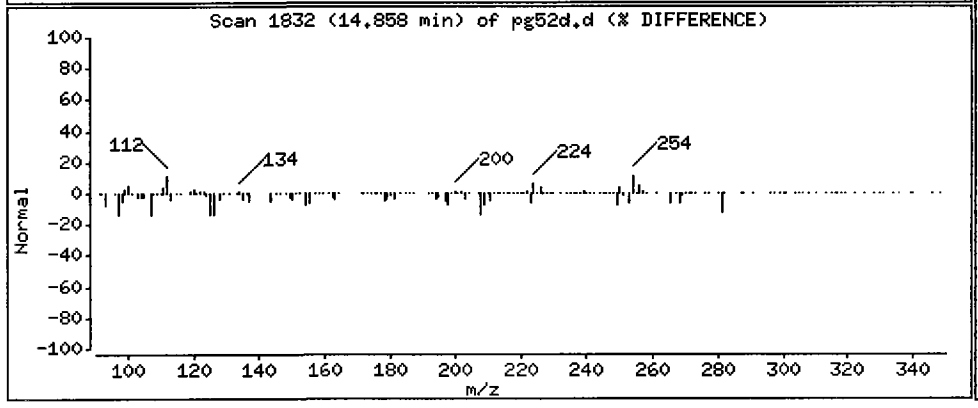
28 Benzo(b)fluoranthene

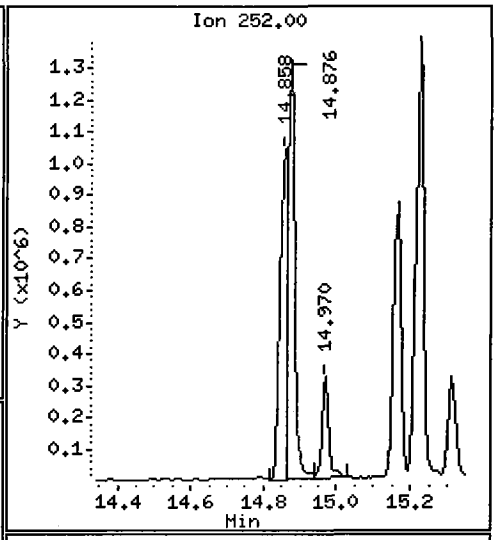
Concentration: 493.3 ug/kg

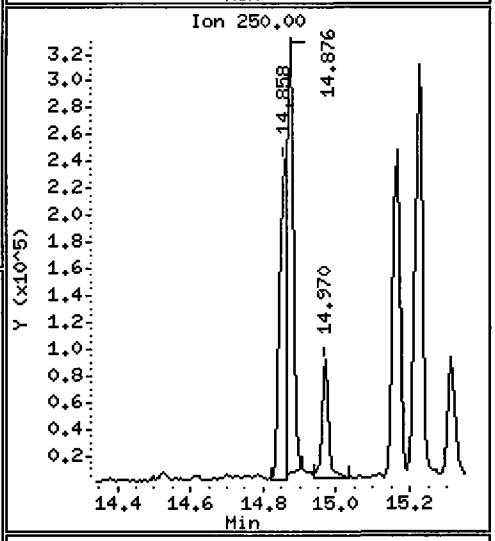


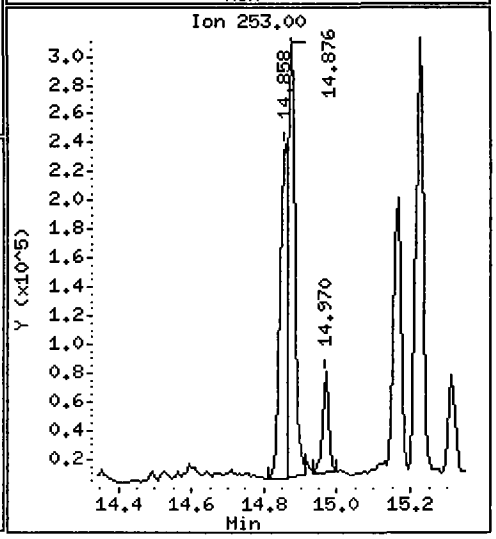












Data File: /chem3/nt1.i/20090717.b/pg52d.d

Date : 17-JUL-2009 22:54

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D

Volume Injected (uL): 1.0

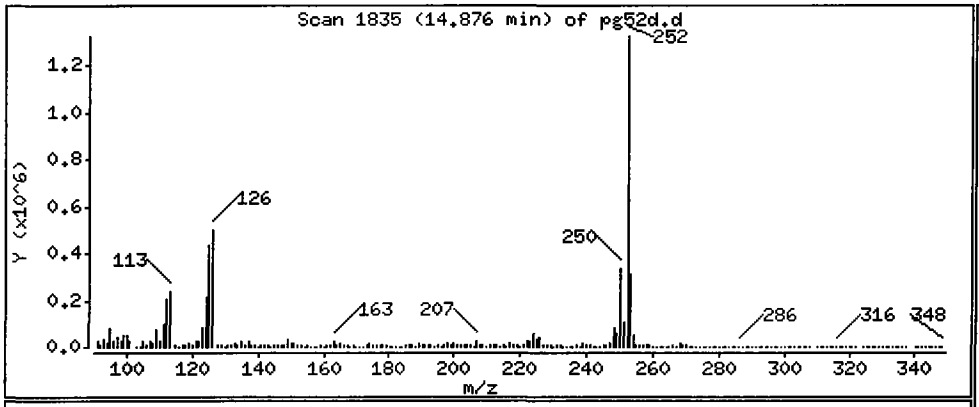
Operator: VTS

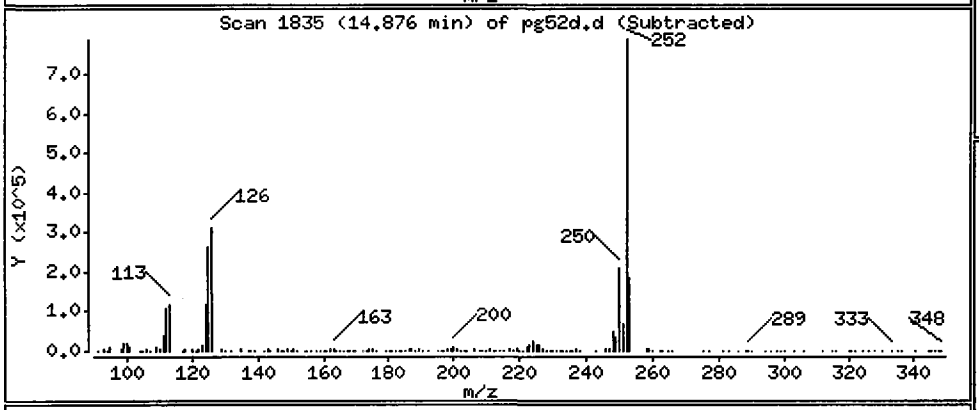
Column phase: ZB-5msi

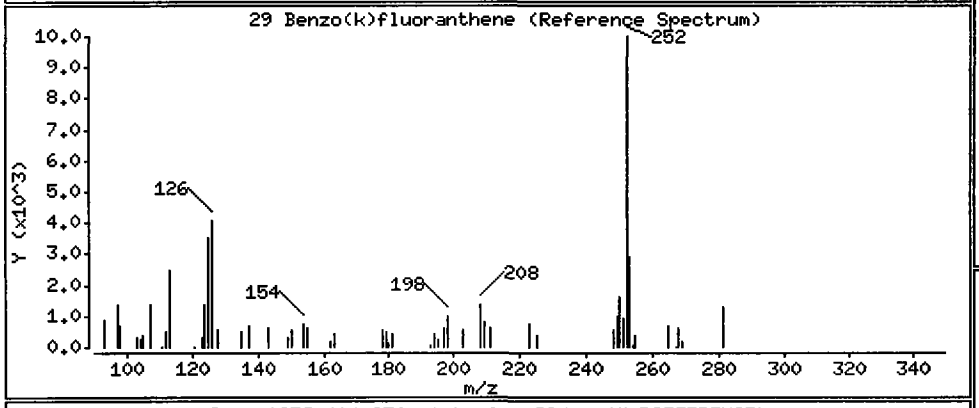
Column diameter: 0.25

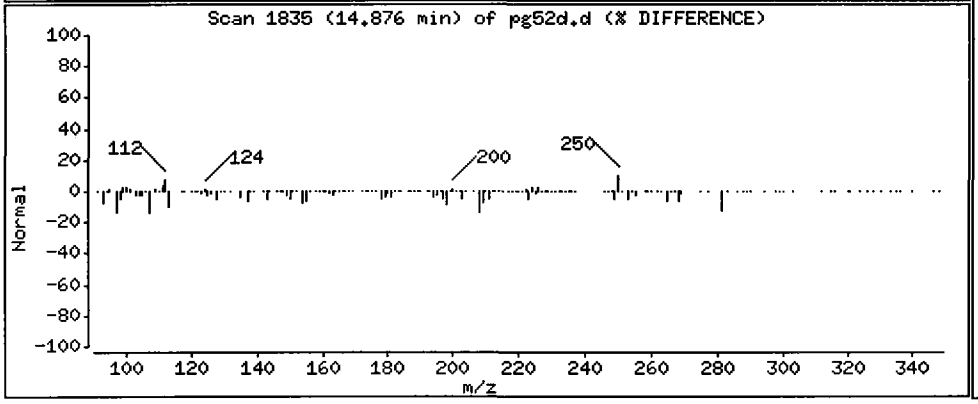
29 Benzo(k)fluoranthene

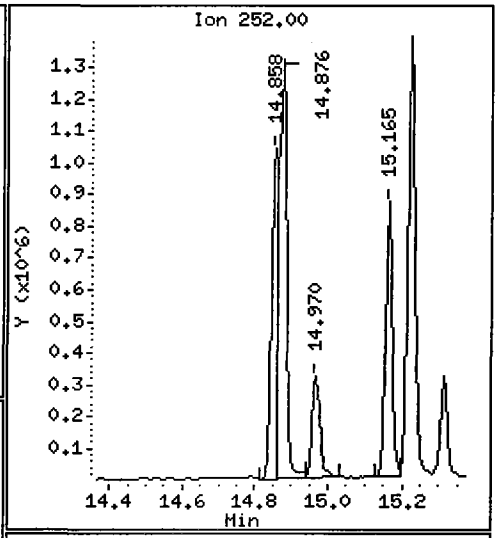
Concentration: 630.6 ug/kg

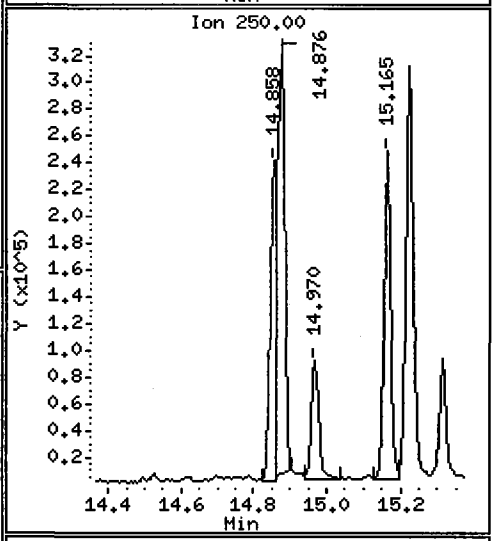


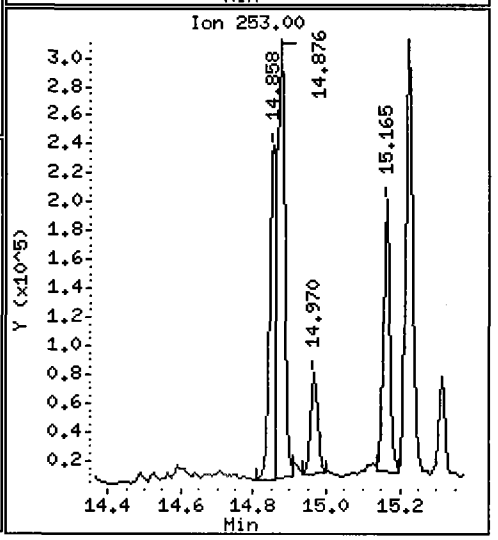












Data File: /chem3/nt1.i/20090717.b/pg52d.d

Date : 17-JUL-2009 22:54

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D

Volume Injected (uL): 1.0

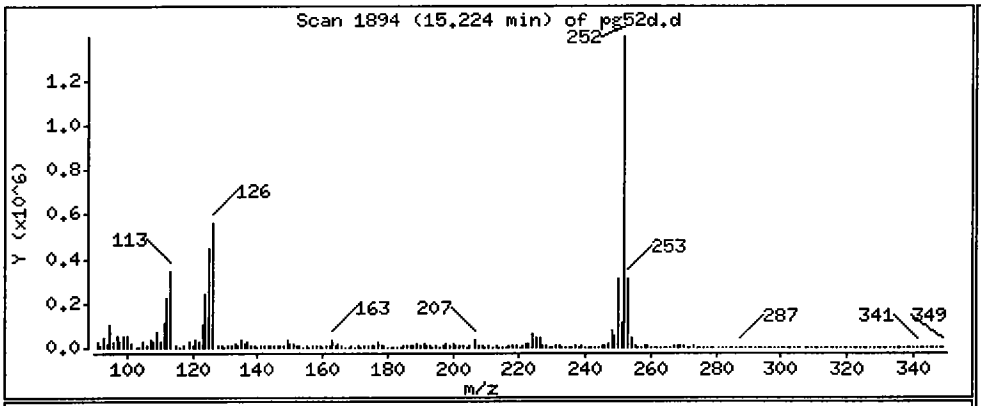
Operator: VTS

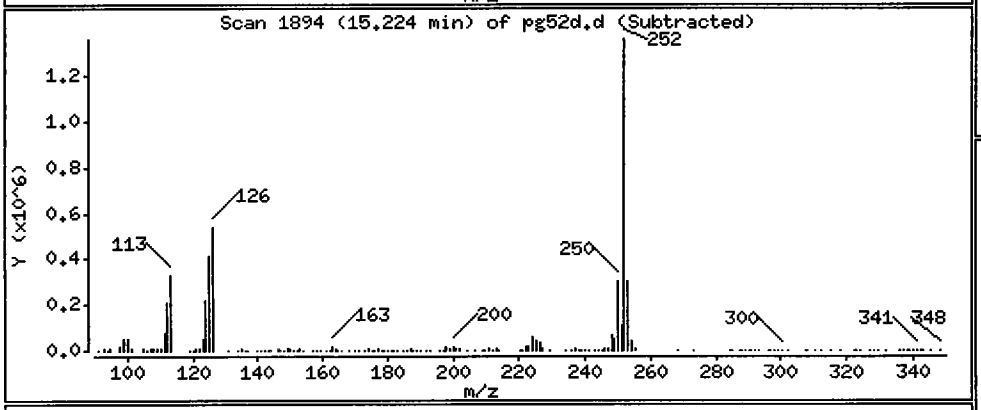
Column phase: ZB-5msi

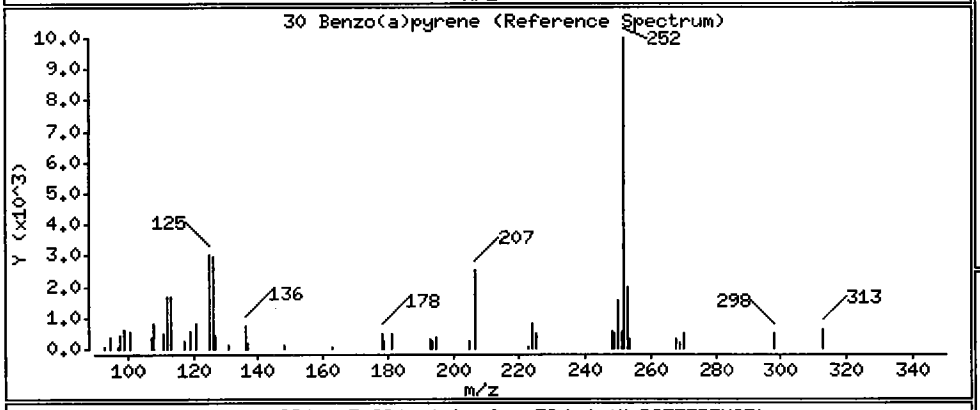
Column diameter: 0.25

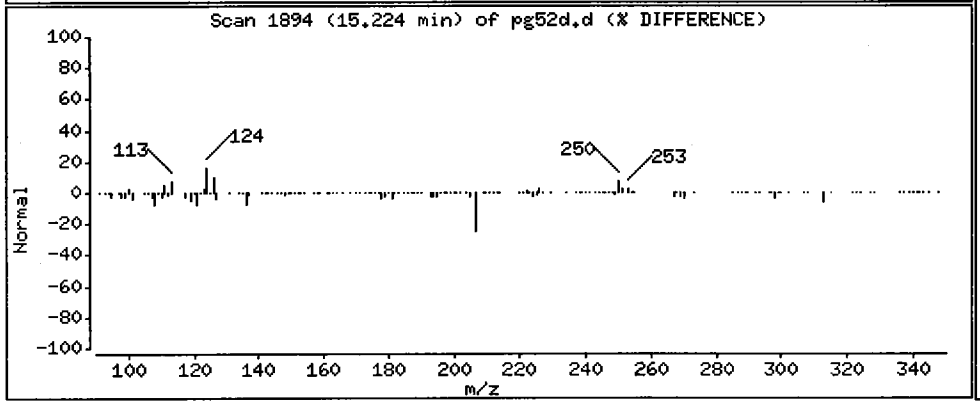
30 Benzo(a)pyrene

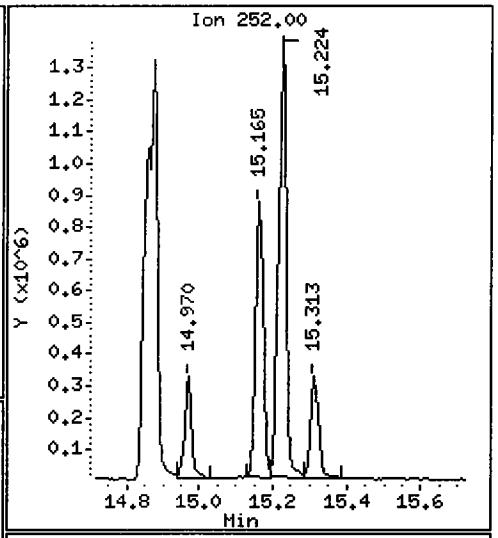
Concentration: 811.7 ug/kg

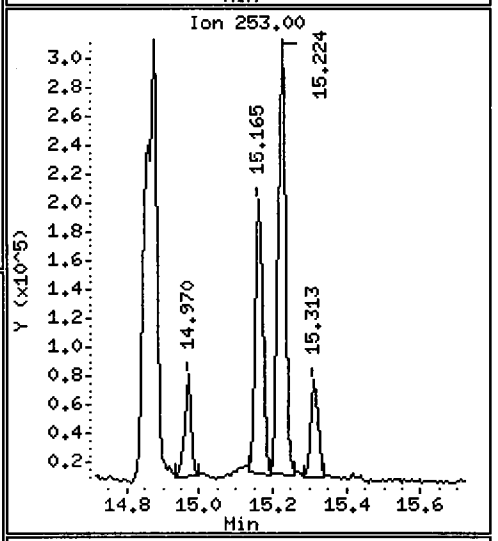


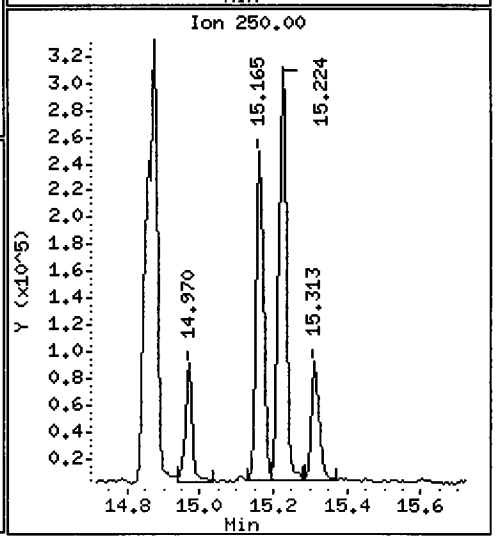












Data File: /chem3/nt1.i/20090717.b/pg52d.d

Date : 17-JUL-2009 22:54

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D

Volume Injected (uL): 1.0

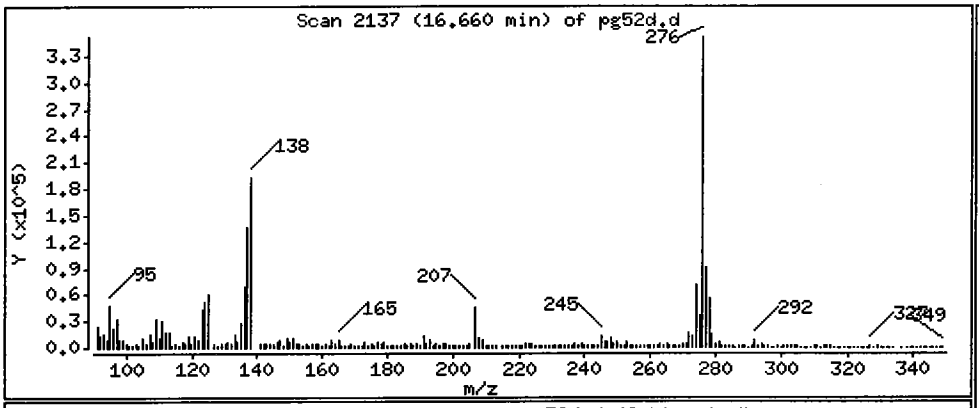
Operator: VTS

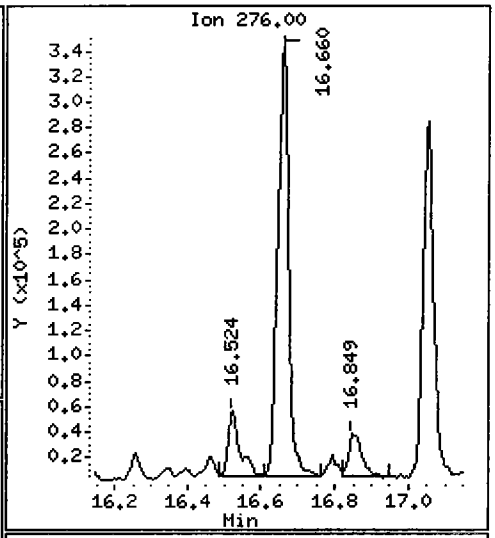
Column phase: ZB-5msi

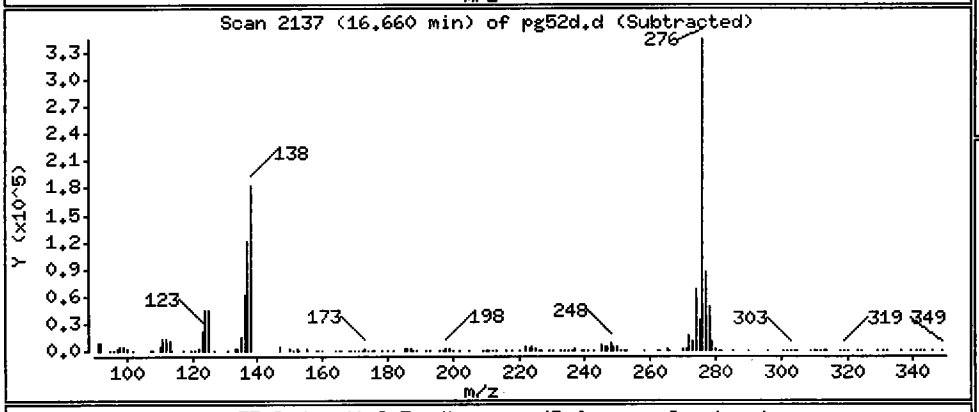
Column diameter: 0.25

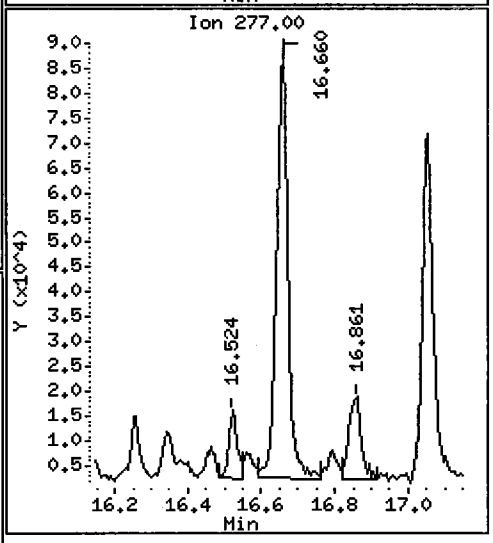
33 Indeno(1,2,3-cd)pyrene

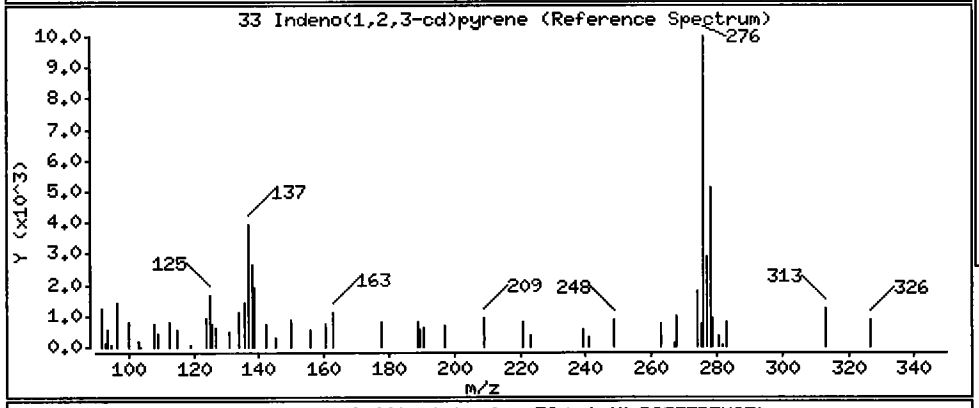
Concentration: 291.4 ug/kg

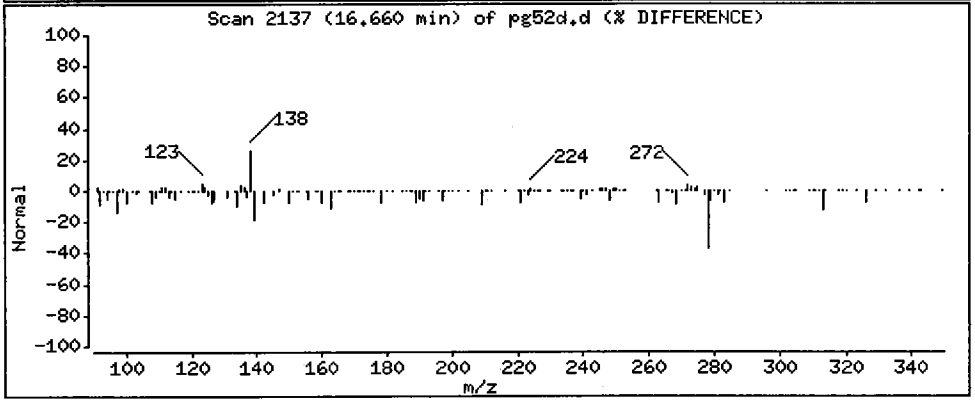












Data File: /chem3/nt1.i/20090717.b/pg52d.d

Date : 17-JUL-2009 22:54

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D

Volume Injected (uL): 1.0

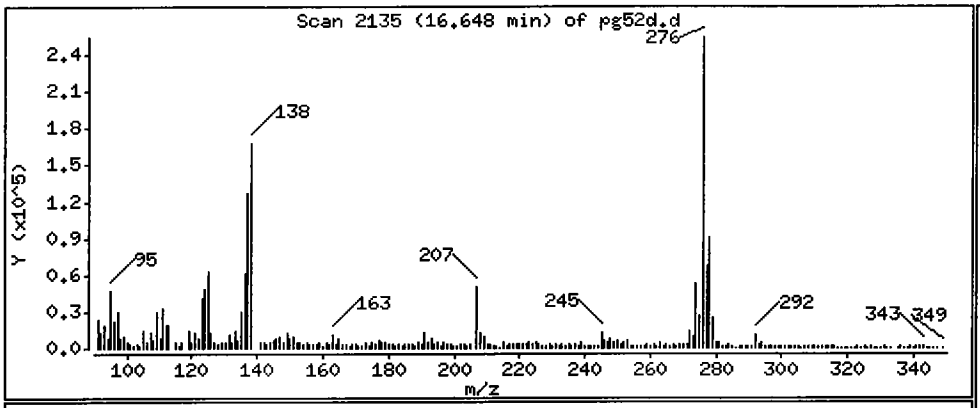
Operator: VTS

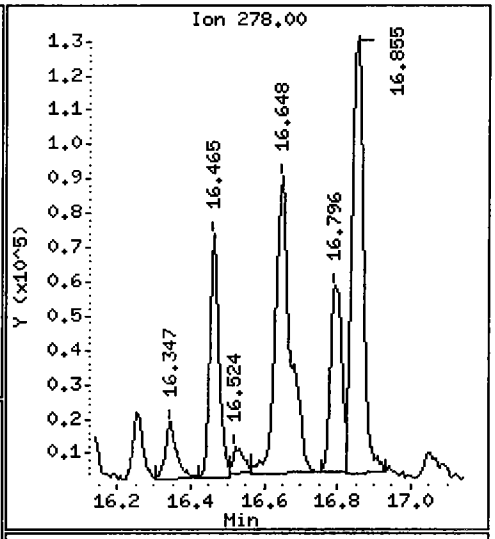
Column phase: ZB-5msi

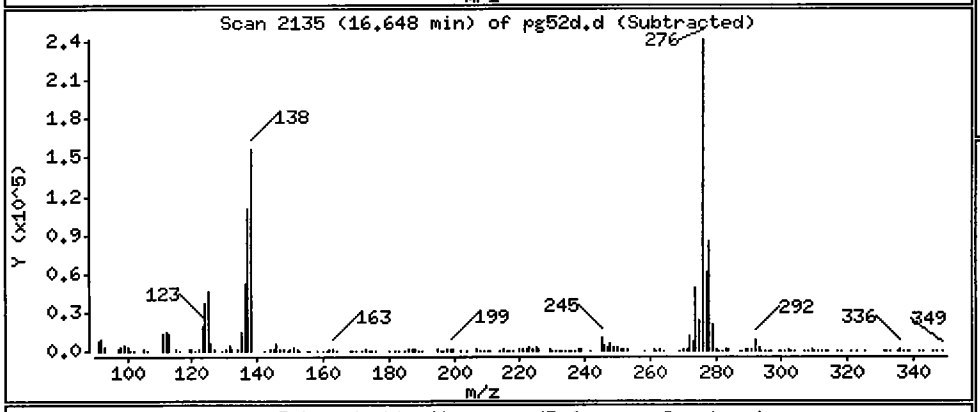
Column diameter: 0.25

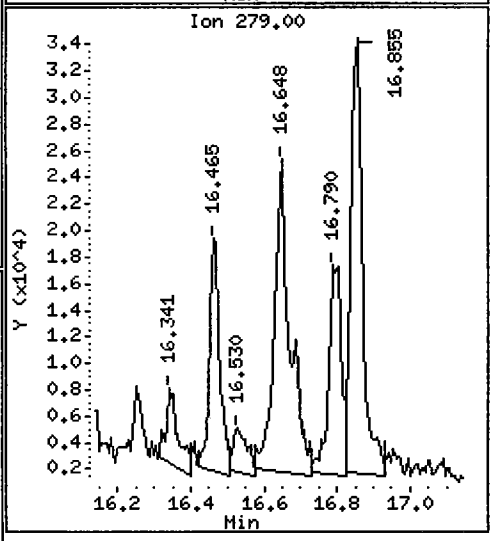
34 Dibenz(a,h)anthracene

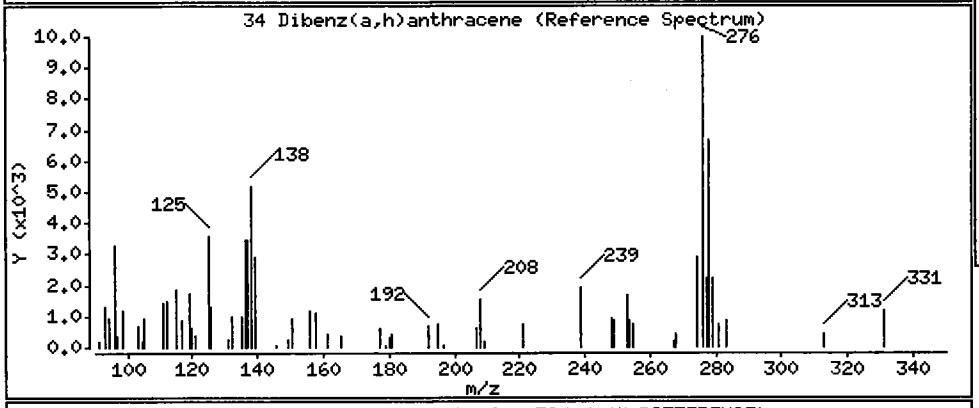
Concentration: 131.3 ug/kg

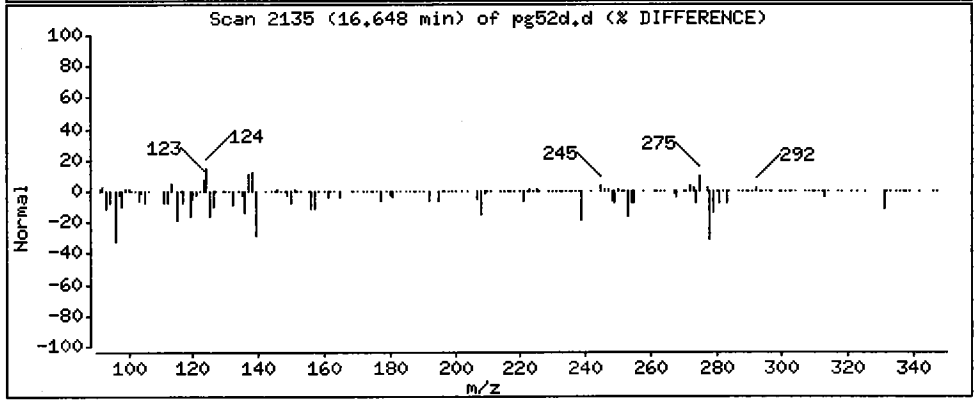












Data File: /chem3/nt1.i/20090717.b/pg52d.d

Date : 17-JUL-2009 22:54

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D

Volume Injected (uL): 1.0

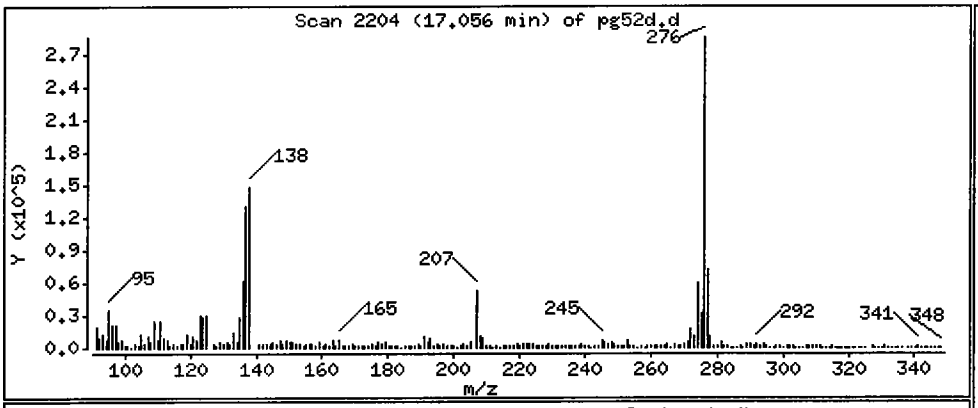
Operator: VTS

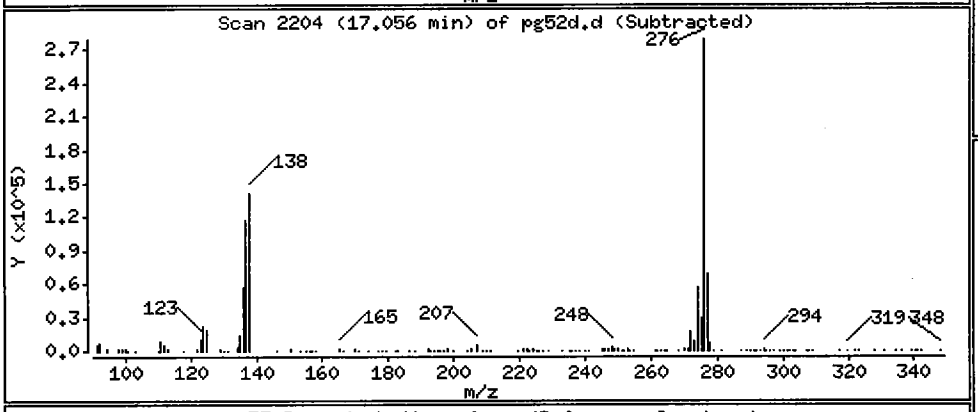
Column phase: ZB-5msi

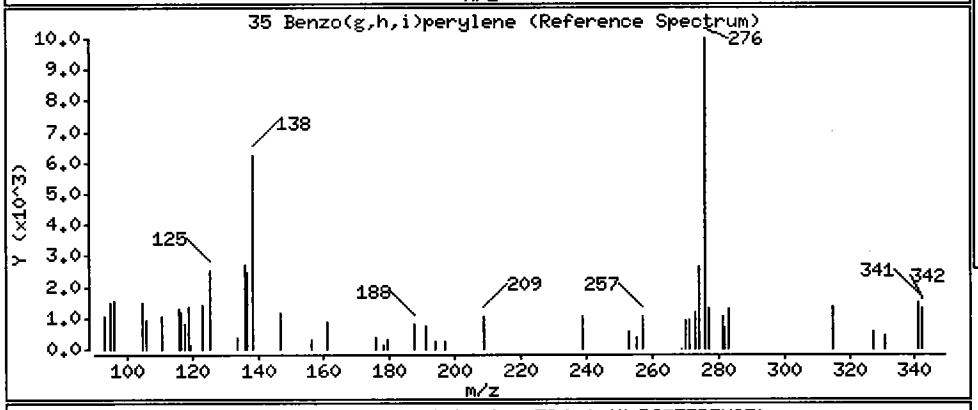
Column diameter: 0.25

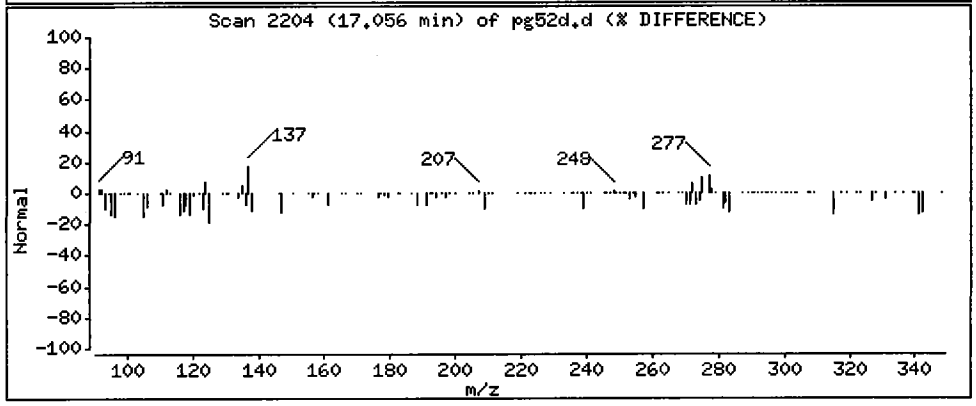
35 Benzo(g,h,i)perylene

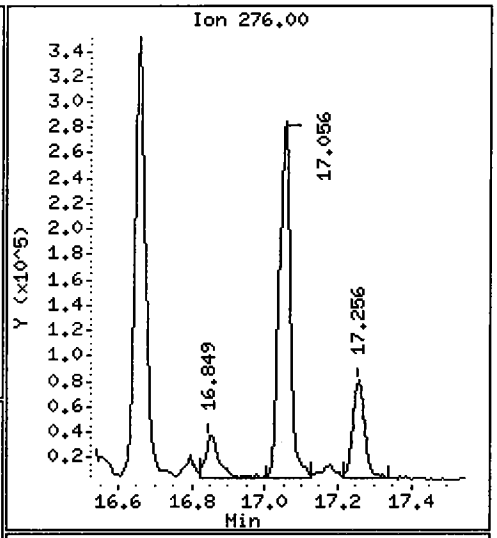
Concentration: 259.3 ug/kg

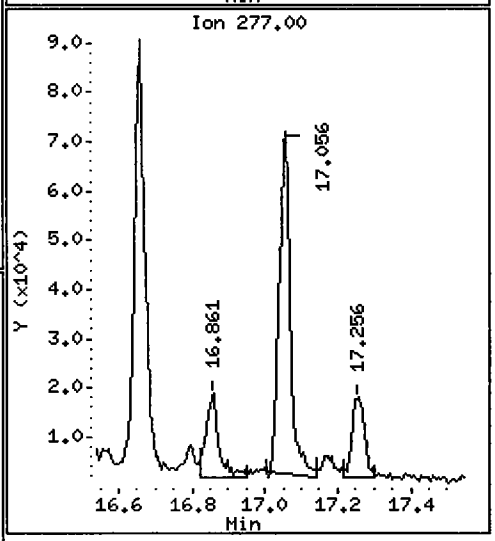












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: AHA-01-1SW(0-3)
DILUTION

Lab Sample ID: PG52D
LIMS ID: 09-16489
Matrix: Soil
Data Release Authorized: VTB
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 07/14/09
Date Analyzed: 07/18/09 12:11
Instrument/Analyst: NT1/YZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 11.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 12.9%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	46	< 46 U
91-57-6	2-Methylnaphthalene	46	< 46 U
90-12-0	1-Methylnaphthalene	46	< 46 U
208-96-8	**Acenaphthylene**	**46**	**150**
83-32-9	Acenaphthene	46	< 46 U
86-73-7	Fluorene	46	< 46 U
85-01-8	**Phenanthrene**	**46**	**580**
120-12-7	**Anthracene**	**46**	**86**
206-44-0	**Fluoranthene**	**46**	**1,000**
129-00-0	**Pyrene**	**46**	**1,100**
56-55-3	**Benzo(a)anthracene**	**46**	**590**
218-01-9	**Chrysene**	**46**	**660**
205-99-2	**Benzo(b)fluoranthene**	**46**	**350**
207-08-9	**Benzo(k)fluoranthene**	**46**	**640**
50-32-8	**Benzo(a)pyrene**	**46**	**760**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**46**	**380**
53-70-3	**Dibenz(a,h)anthracene**	**46**	**160**
191-24-2	**Benzo(g,h,i)perylene**	**46**	**390**
132-64-9	Dibenzofuran	46	< 46 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	83.3%
d14-Dibenzo(a,h)anthracen	107%

Y2 7/22/09

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20090718.b/pg52d10.d
Lab Smp Id: PG52D Client Smp ID: AHA-01-1SW(0-3)
Inj Date : 18-JUL-2009 12:11
Operator : VTS Inst ID: nt1.i
Smp Info : PG52D,10
Misc Info : 09-16489
Comment : 1ul Injection
Method : /chem3/nt1.i/20090718.b/simpna.m
Meth Date : 18-Jul-2009 11:36 yev Quant Type: ISTD
Cal Date : 11-JUL-2009 14:37 Cal File: ic0711f.d
Als bottle: 3
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	12.60000	Weight of sample extracted (g)
M	12.90000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
*	1 Naphthalene-d8	136	6.451	6.452	(1.000)	481546	2.00000	
	2 Naphthalene	128	6.475	6.476	(1.004)	15191	0.07176 J	32.69
$	3 2-Methylnaphthalene-d10	152	7.196	7.196	(1.115)	26640	0.25047	114.1
	4 2-Methylnaphthalene	142	Compound Not Detected.					
	5 1-Methylnaphthalene	142	Compound Not Detected.					
	7 Acenaphthylene	152	8.307	8.301	(0.979)	57232	0.33158	151.1
*	8 Acenaphthene-d10	164	8.484	8.484	(1.000)	223271	2.00000	
	9 Acenaphthene	153	Compound Not Detected.					
	10 Dibenzofuran	168	Compound Not Detected.					
	11 Fluorene	166	9.128	9.128	(1.076)	10587	0.09478 J	43.18
*	15 Phenanthrene-d10	188	10.280	10.280	(1.000)	352558	2.00000	
	16 Phenanthrene	178	10.303	10.304	(1.002)	207118	1.26691	577.2
	17 Anthracene	178	10.363	10.363	(1.008)	30377	0.18633	84.89
	19 Fluoranthene	202	11.786	11.787	(1.147)	331358	2.20038	1002

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.076	12.070	(0.890)	425721	2.48472	1132
	22 Benzo(a)anthracene	228	13.553	13.553	(0.999)	155717	1.29413	589.6
*	23 Chrysene-d12	240	13.571	13.571	(1.000)	255838	2.00000	
	24 Chrysene	228	13.600	13.607	(1.002)	183219	1.45511	662.9
	28 Benzo(b)fluoranthene	252	14.817	14.818	(0.972)	96468	0.77196	351.7
	29 Benzo(k)fluoranthene	252	14.841	14.841	(0.974)	190518	1.42145	647.6
	30 Benzo(a)pyrene	252	15.183	15.184	(0.996)	176906	1.68303	766.8
*	31 Perylene-d12	264	15.243	15.243	(1.000)	249841	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	16.601	16.602	(1.089)	89935	0.83994	382.7
$	32 Dibenz(a,h)anthrancene-d14	292	16.548	16.549	(1.086)	19861	0.32185	146.6
	34 Dibenz(a,h)anthracene	278	16.590	16.596	(1.088)	28069	0.34679	158.0
	35 Benzo(g,h,i)perylene	276	16.991	16.992	(1.115)	86249	0.86124	392.4

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: pg52d10.d
Lab Smp Id: PG52D
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20090718.b/simpna.m
Misc Info: 09-16489

Calibration Date: 18-JUL-2009
Calibration Time: 10:54
Client Smp ID: AHA-01-1SW(0-3)
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	463169	231584	926338	481546	3.97
8 Acenaphthene-d10	213444	106722	426888	223271	4.60
15 Phenanthrene-d10	326462	163231	652924	352558	7.99
23 Chrysene-d12	224038	112019	448076	255838	14.19
31 Perylene-d12	206230	103115	412460	249841	21.15

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.45	5.95	6.95	6.45	-0.01
8 Acenaphthene-d10	8.48	7.98	8.98	8.48	-0.01
15 Phenanthrene-d10	10.28	9.78	10.78	10.28	0.00
23 Chrysene-d12	13.57	13.07	14.07	13.57	0.00
31 Perylene-d12	15.24	14.74	15.74	15.24	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

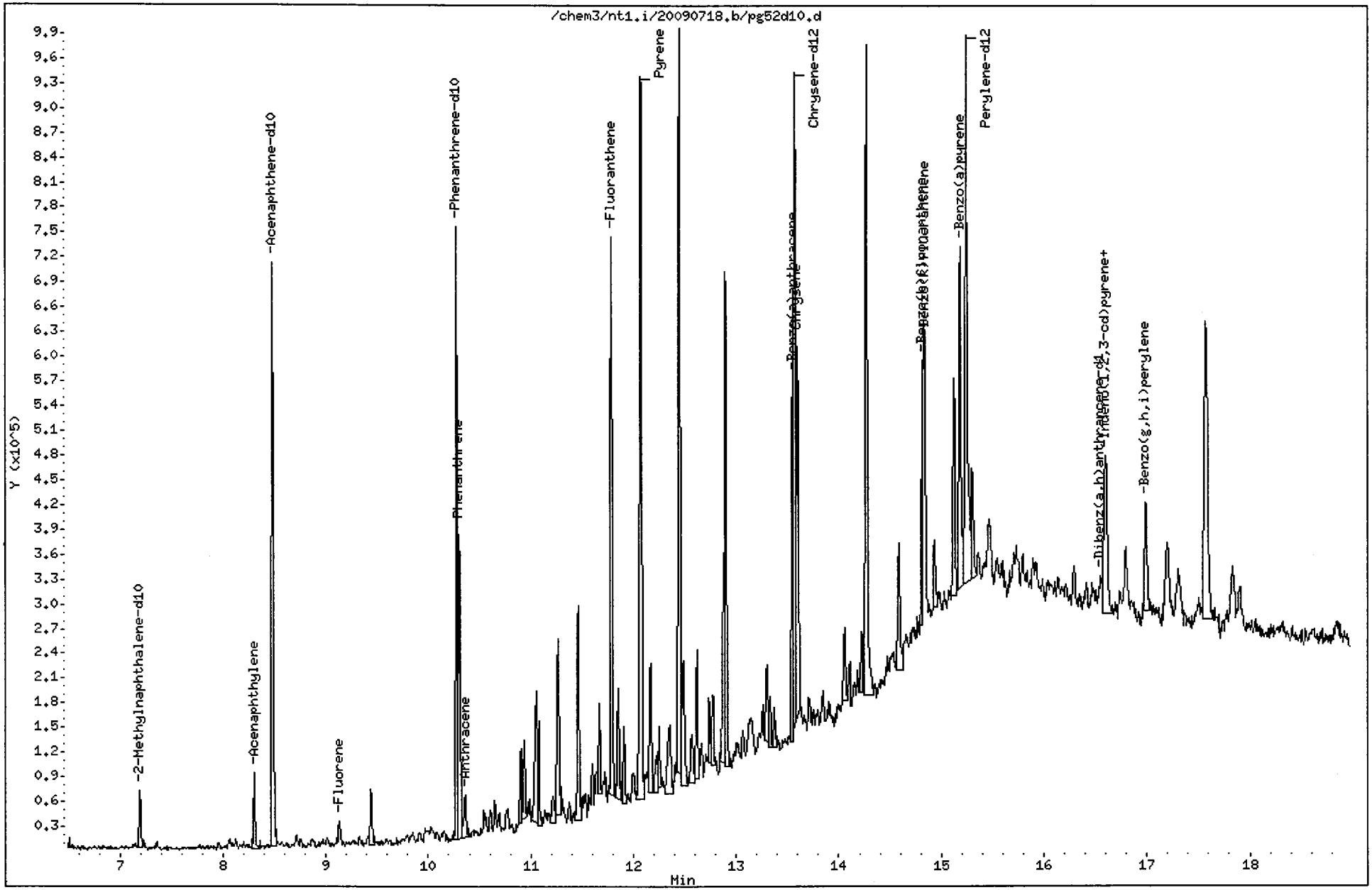
Client Name: Anchor QEA
Client SDG: PG52
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: PG52D
Client Smp ID: AHA-01-1SW(0-3)
Level: LOW
Operator: VTS
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: waterlcs.spk
Quant Type: ISTD
Sublist File: pna1mn.sub
Method File: /chem3/nt1.i/20090718.b/simpna.m
Misc Info: 09-16489

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	136.7	114.1	83.49	34-100
$ 32 Dibenz(a,h)anthran	136.7	146.6	107.28	10-117

Data File: /chem3/nt1.i/20090718.b/pg52d10.d
Date : 18-JUL-2009 12:11
Client ID: AHA-01-1SW(0-3)
Sample Info: PG52D,10
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

PG52 : 090718



Data File: /chem3/nt1.i/20090718.b/pg52d10.d

Date : 18-JUL-2009 12:11

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D,10

Volume Injected (uL): 1.0

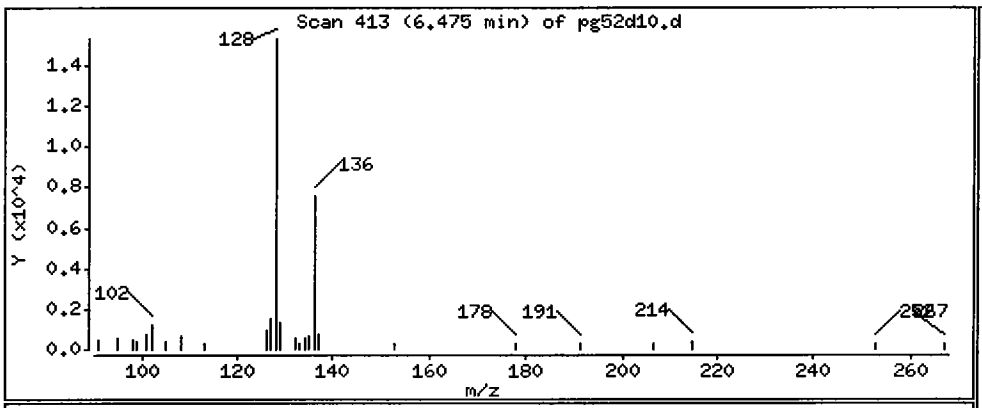
Operator: VTS

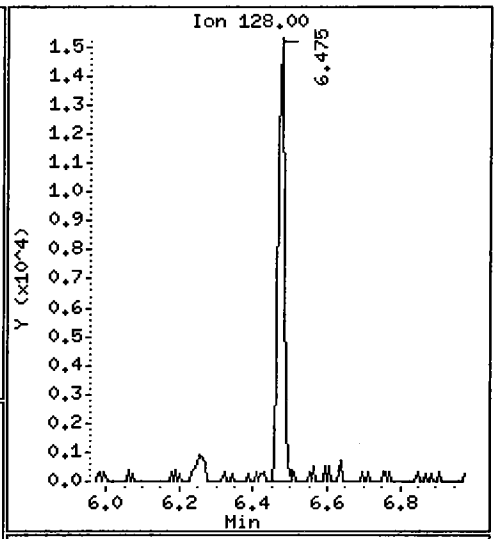
Column phase: ZB-5msi

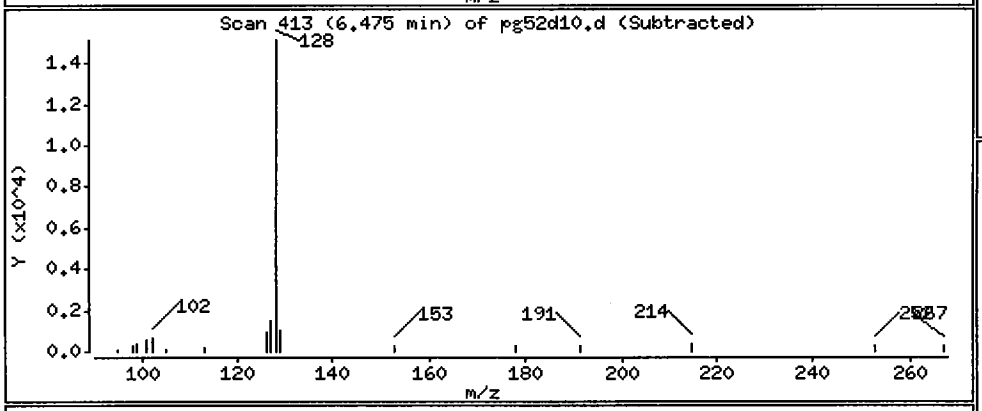
Column diameter: 0.25

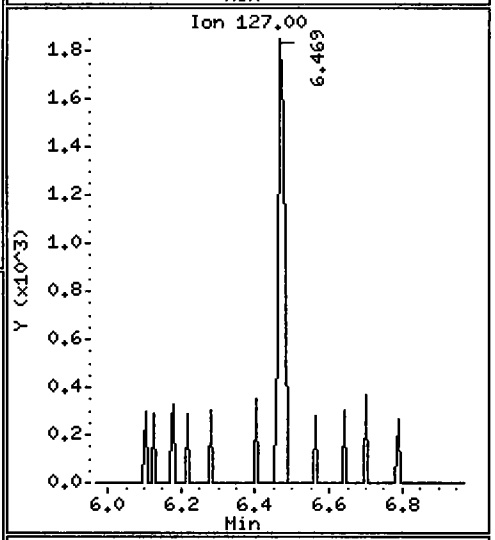
2 Naphthalene

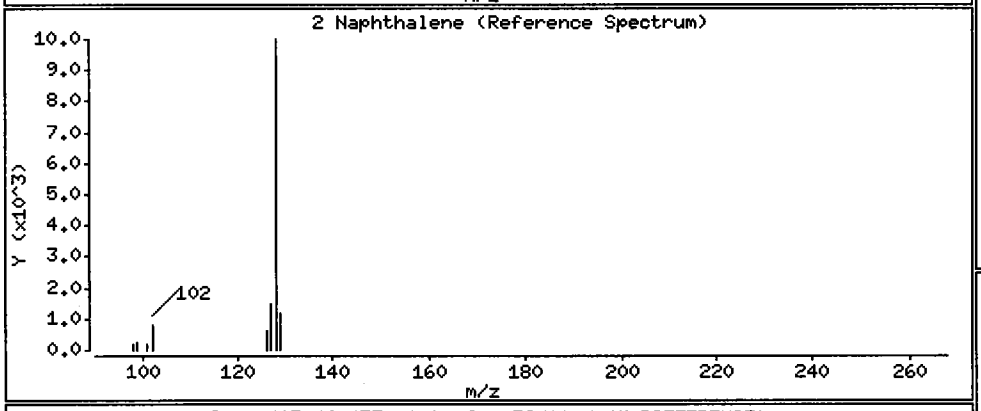
Concentration: 32.69 ug/kg

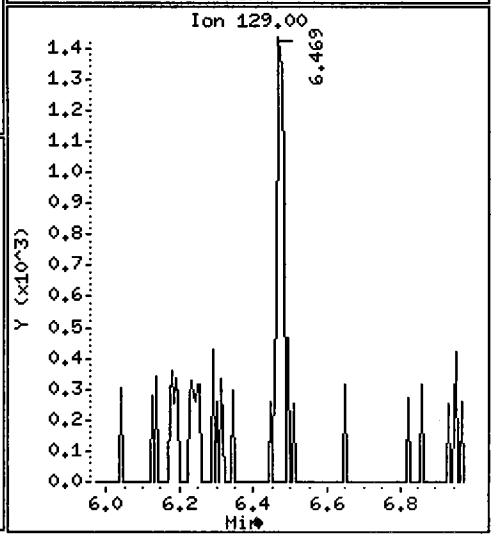


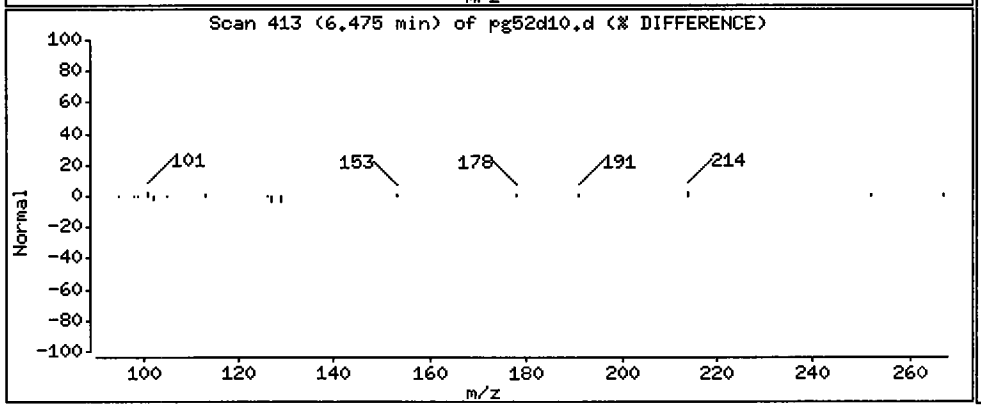












Data File: /chem3/nt1.i/20090718.b/pg52d10.d

Date : 18-JUL-2009 12:11

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D,10

Volume Injected (uL): 1.0

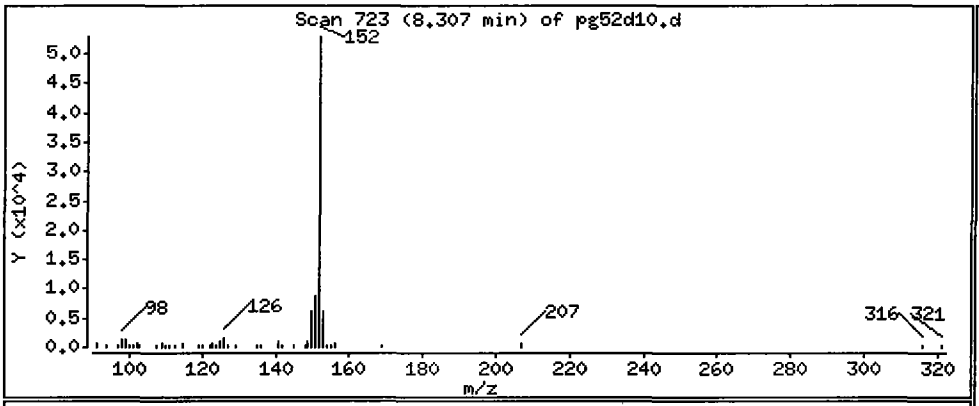
Operator: VTS

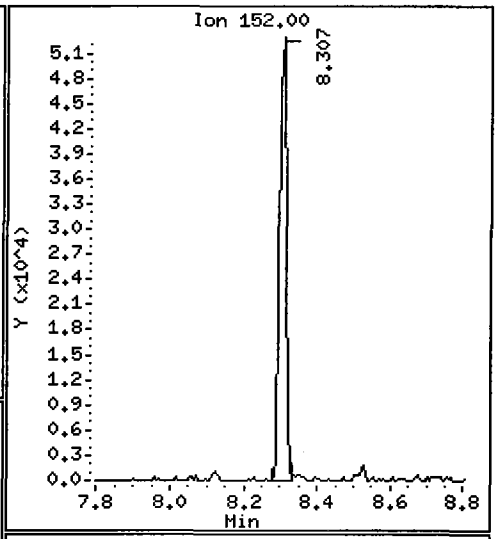
Column phase: ZB-5msi

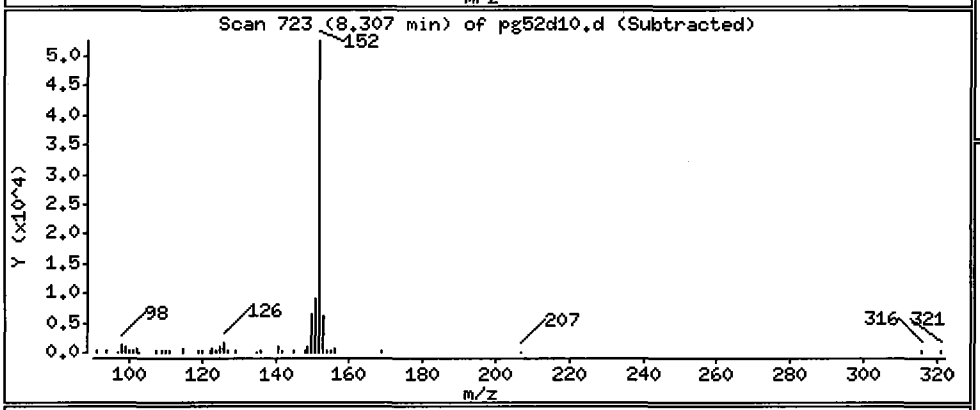
Column diameter: 0.25

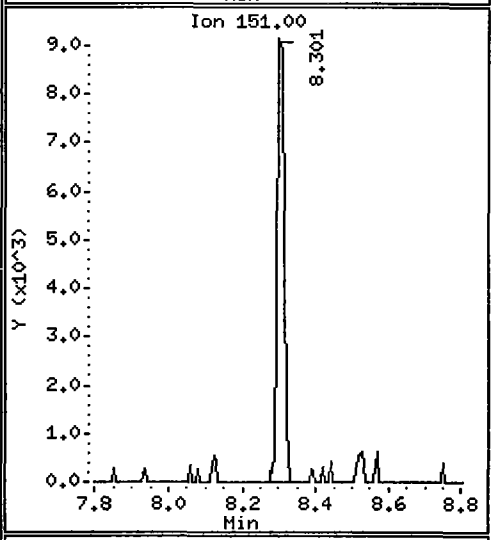
7 Acenaphthylene

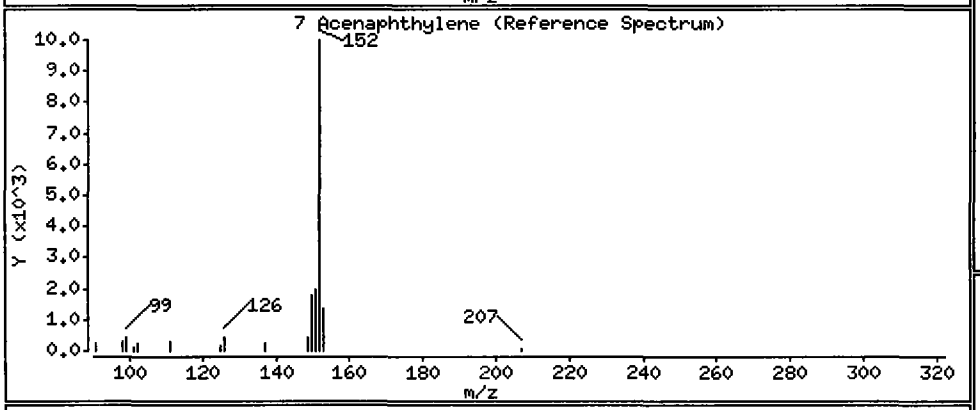
Concentration: 151.1 ug/kg

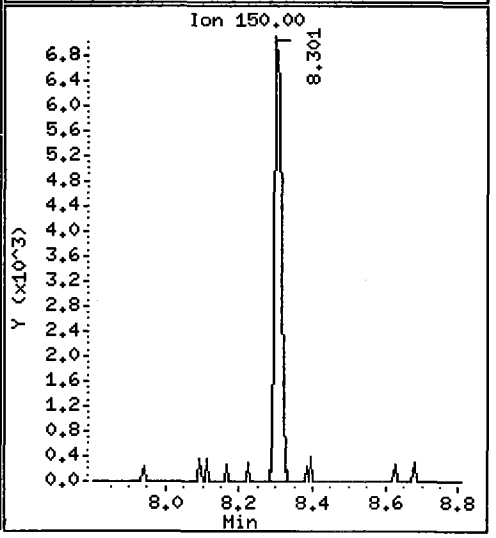


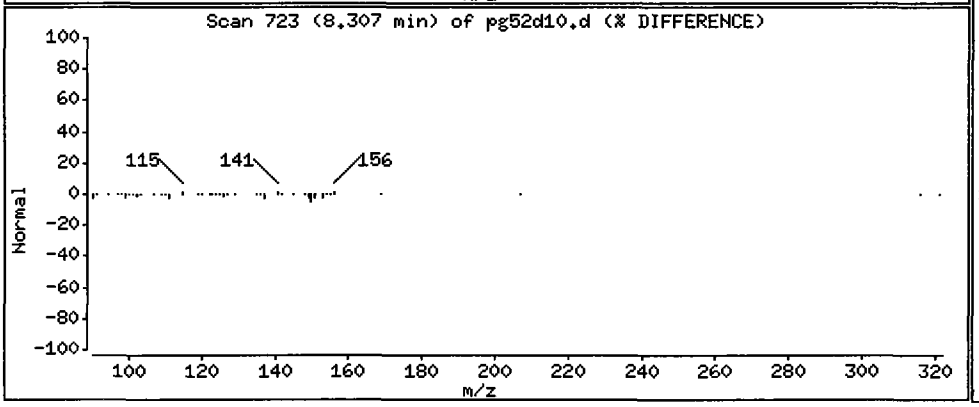












Data File: /chem3/nt1.i/20090718.b/pg52d10.d

Date : 18-JUL-2009 12:11

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D,10

Volume Injected (uL): 1.0

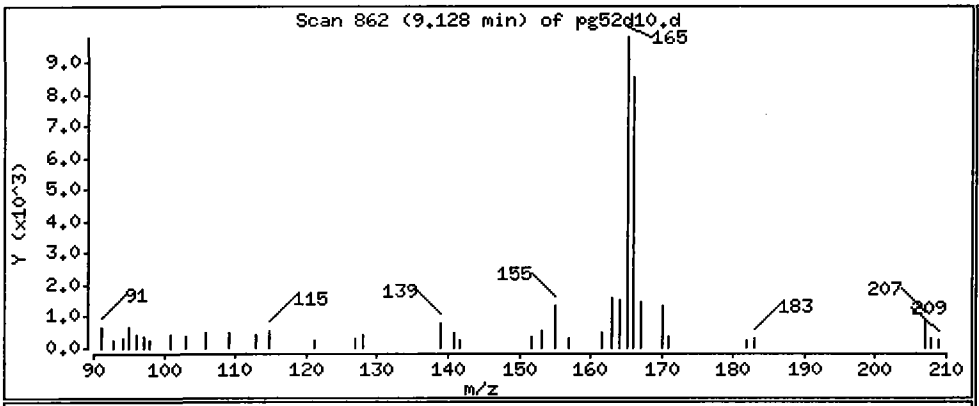
Operator: VTS

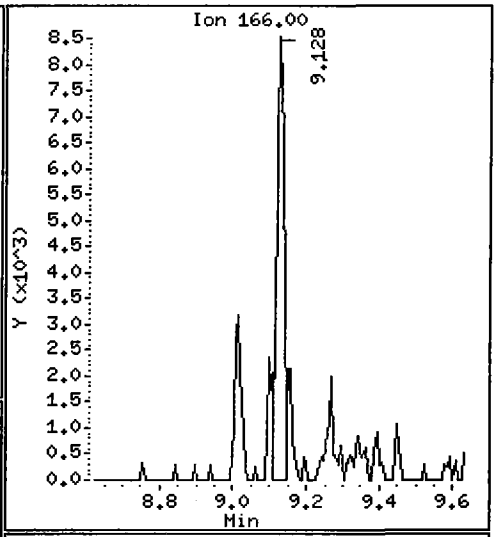
Column phase: ZB-5msi

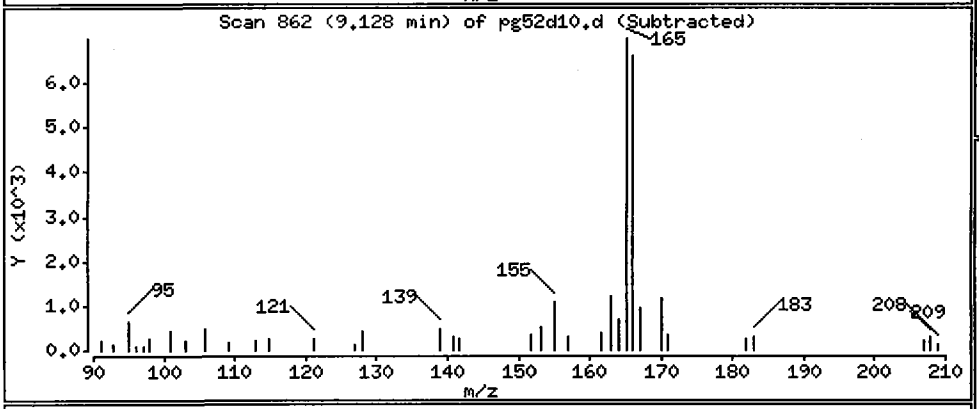
Column diameter: 0.25

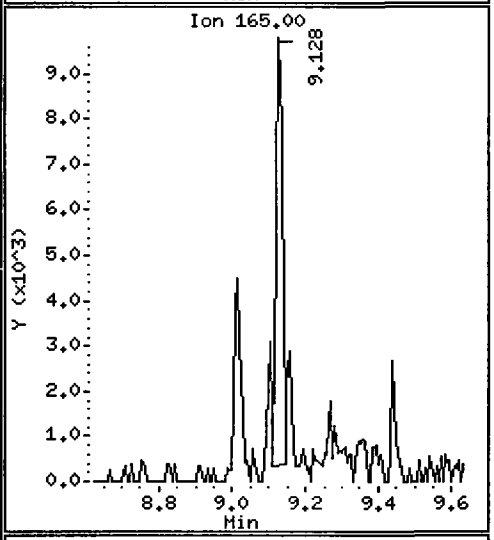
11 Fluorene

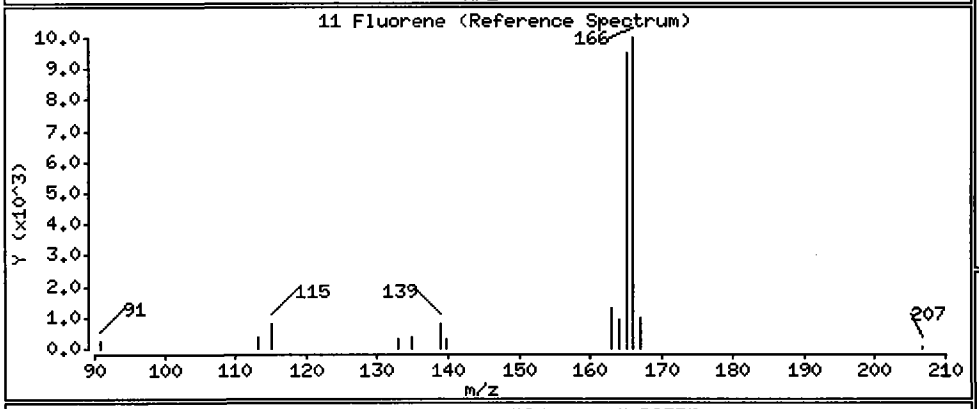
Concentration: 43.18 ug/kg

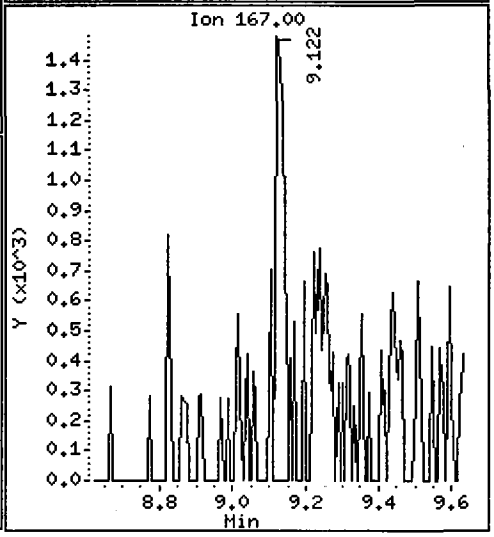


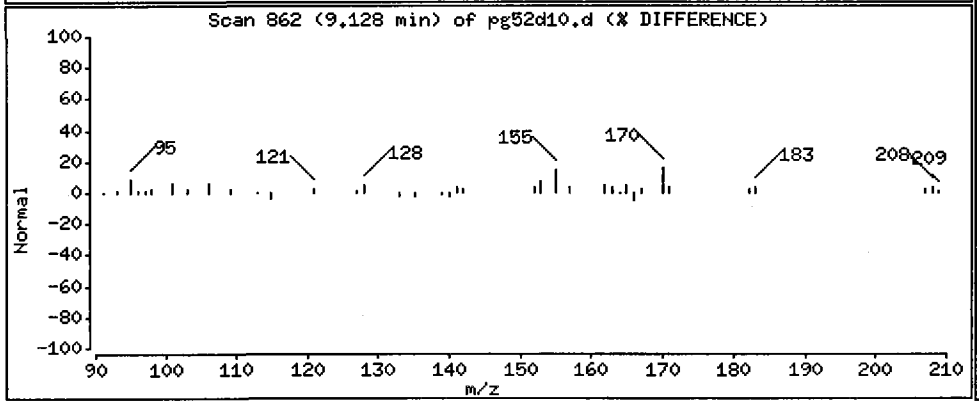












Data File: /chem3/nt1.i/20090718.b/pg52d10.d

Date : 18-JUL-2009 12:11

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D,10

Volume Injected (uL): 1.0

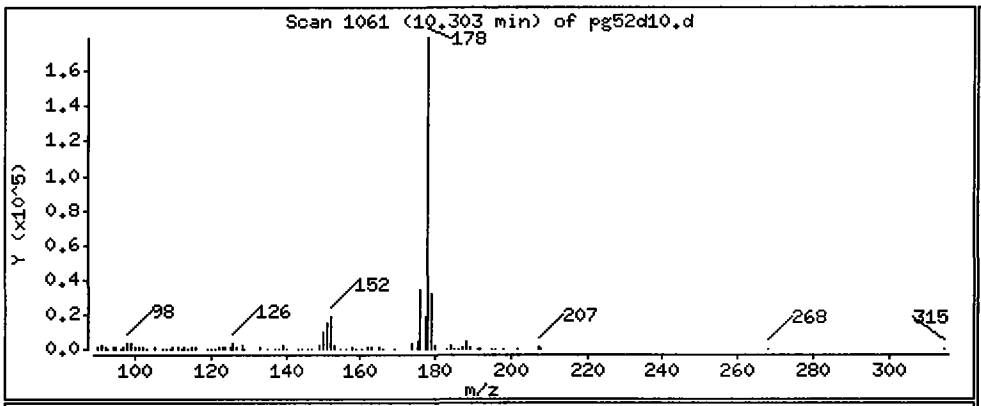
Operator: VTS

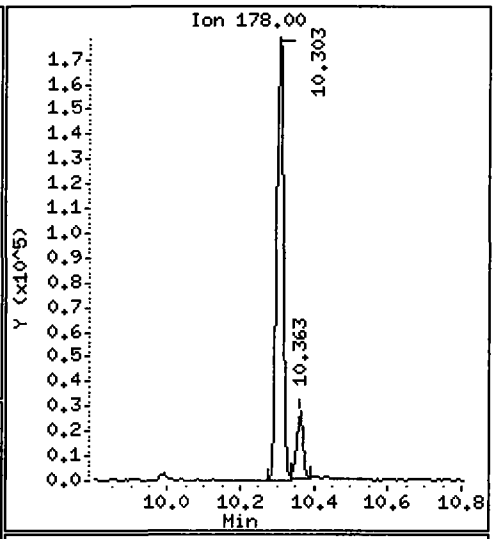
Column phase: ZB-5msi

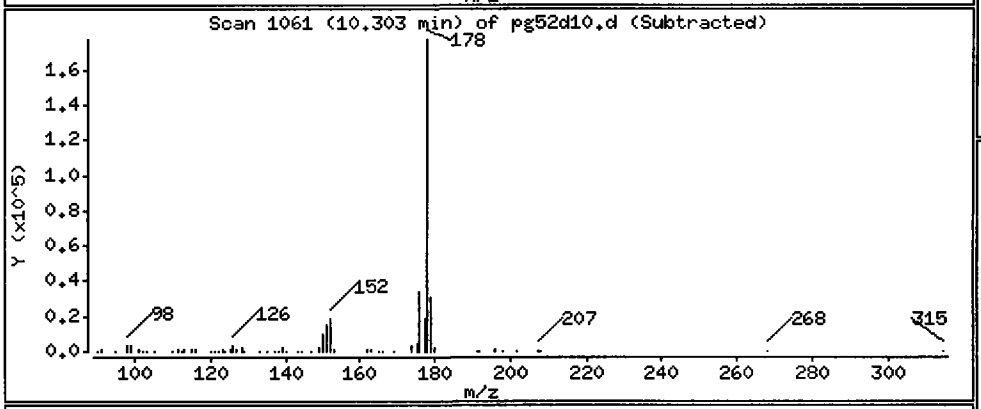
Column diameter: 0.25

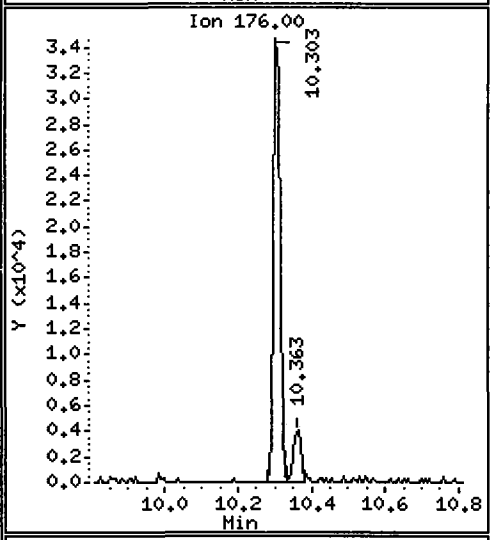
16 Phenanthrene

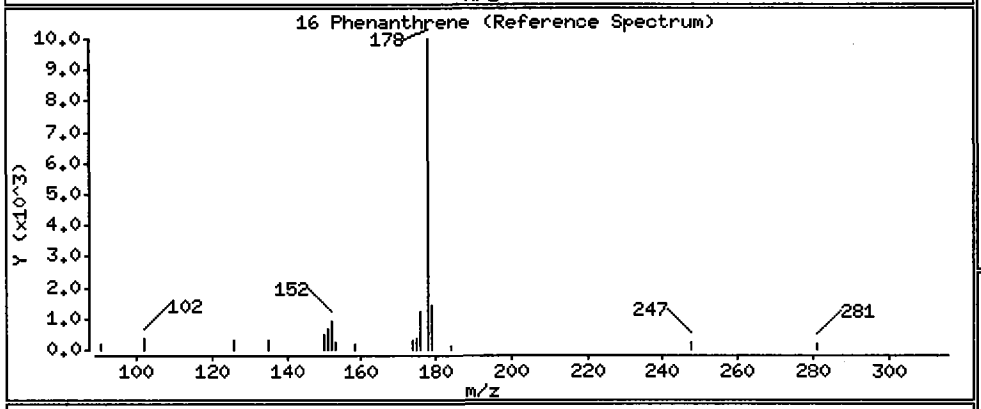
Concentration: 577.2 ug/kg

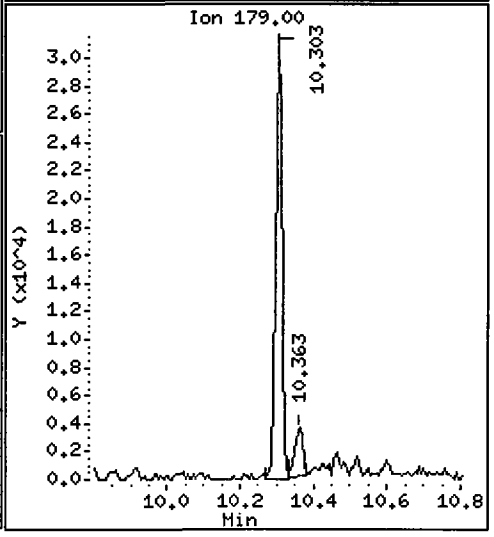


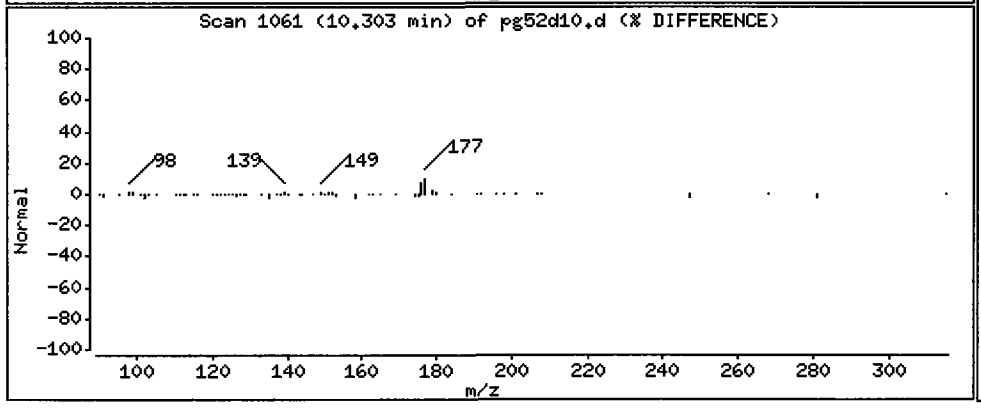












Data File: /chem3/nt1.i/20090718.b/pg52d10.d

Date : 18-JUL-2009 12:11

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D,10

Volume Injected (uL): 1.0

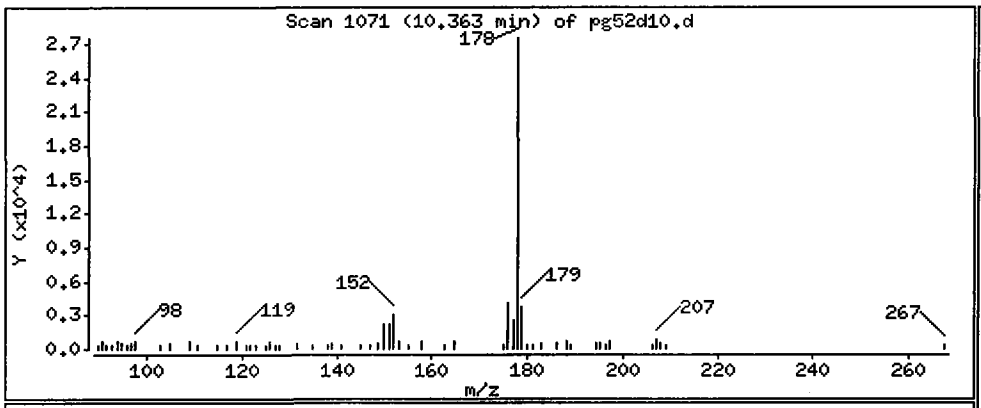
Operator: VTS

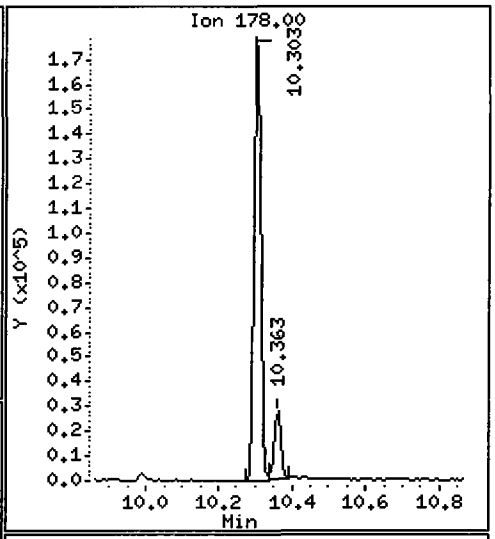
Column phase: ZB-5msi

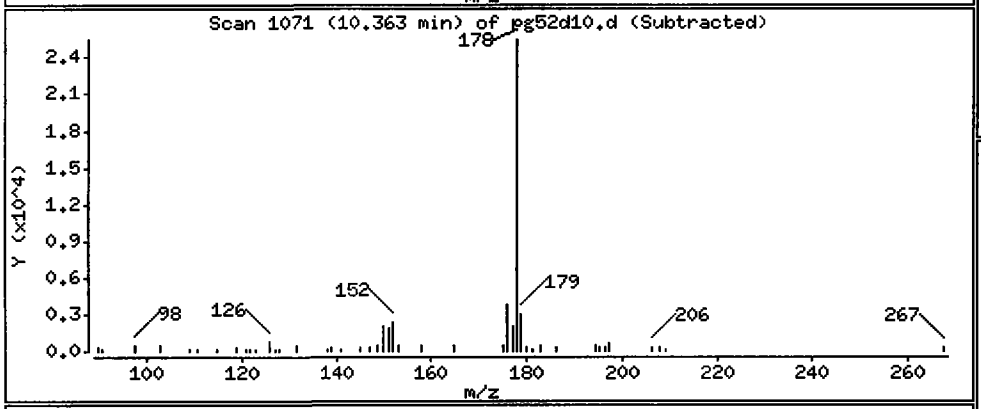
Column diameter: 0.25

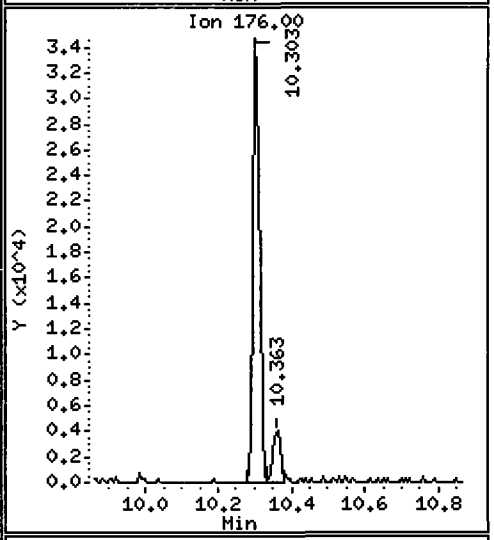
17 Anthracene

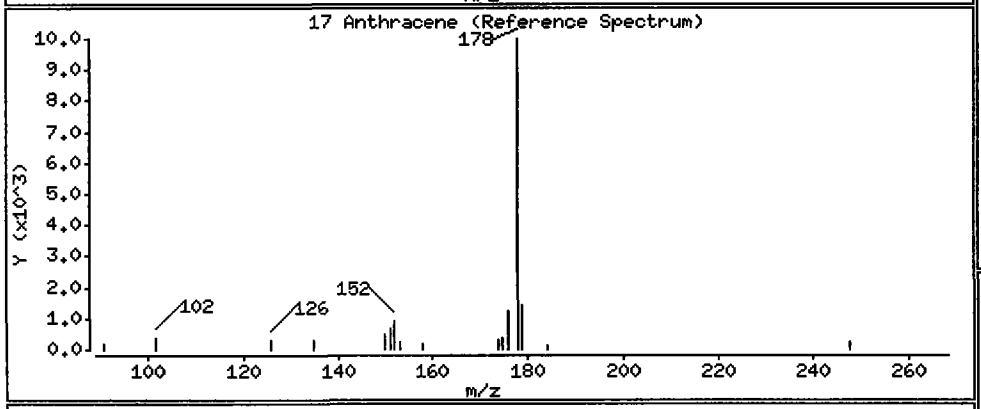
Concentration: 84.89 ug/kg

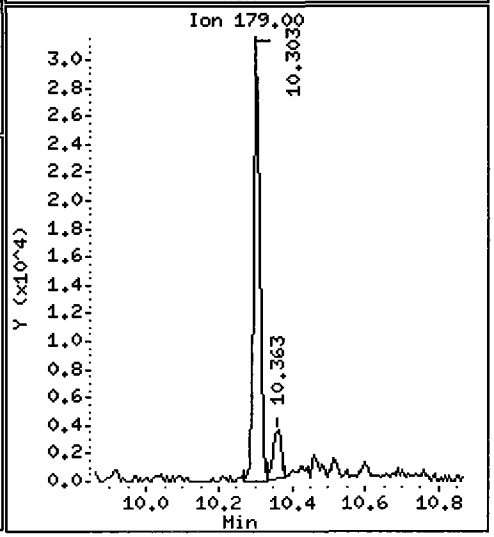


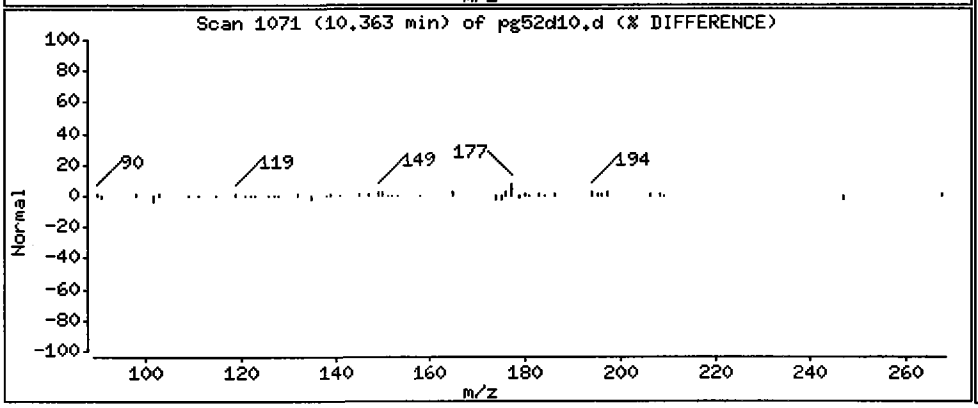












Data File: /chem3/nt1.i/20090718.b/pg52d10.d

Date : 18-JUL-2009 12:11

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D,10

Volume Injected (uL): 1.0

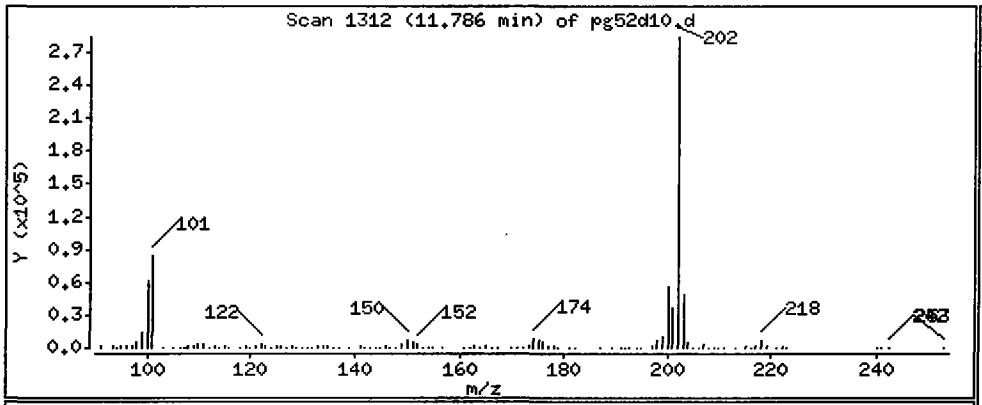
Operator: VTS

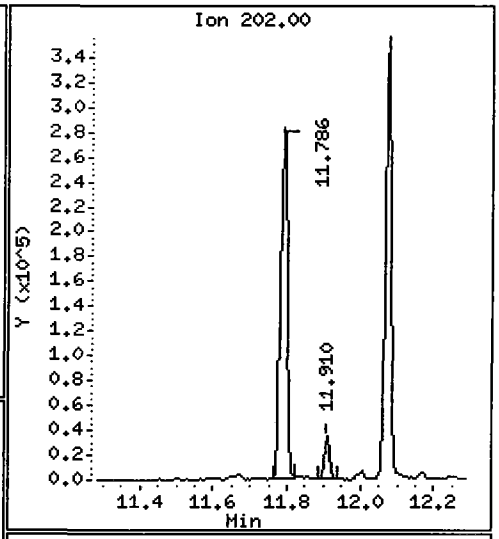
Column phase: ZB-5msi

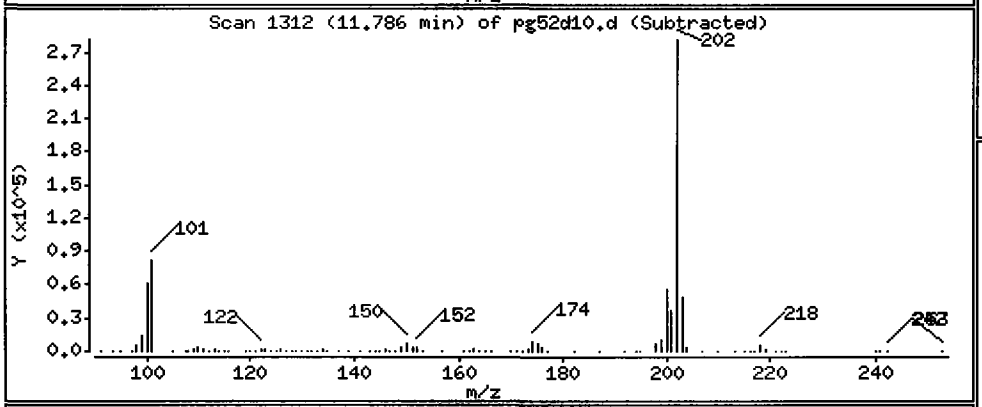
Column diameter: 0.25

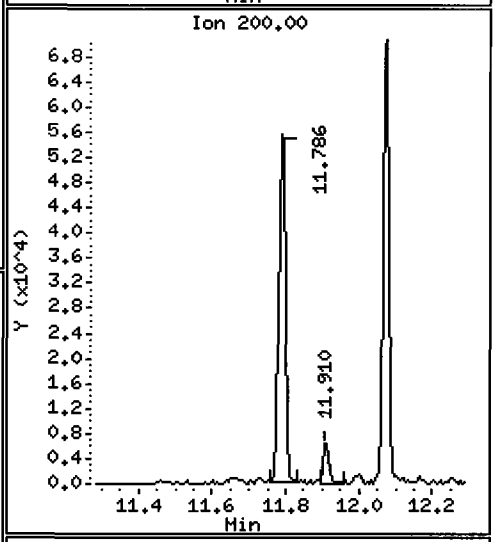
19 Fluoranthene

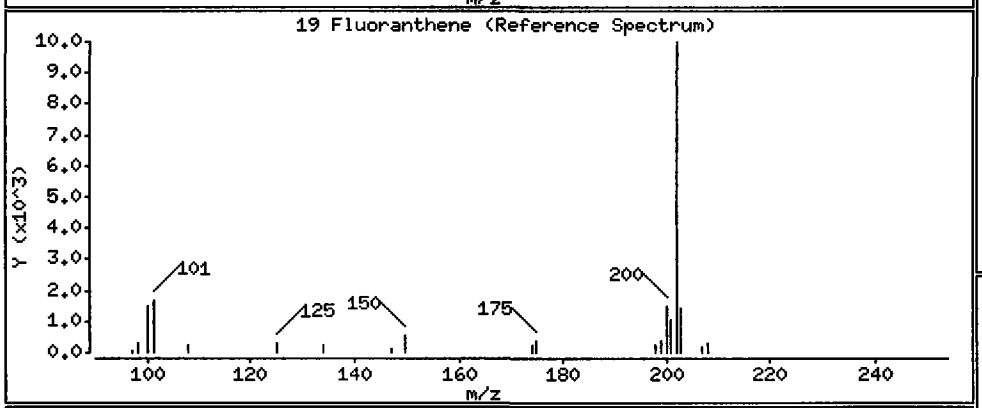
Concentration: 1002 ug/kg

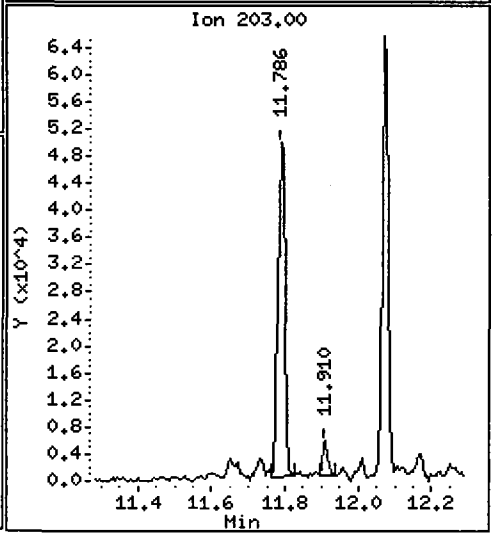


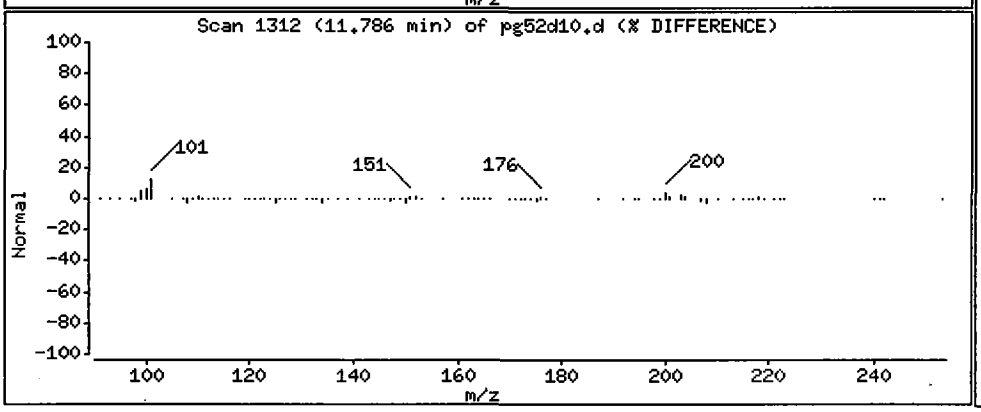












Data File: /chem3/nt1.i/20090718.b/pg52d10.d

Date : 18-JUL-2009 12:11

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D,10

Volume Injected (uL): 1.0

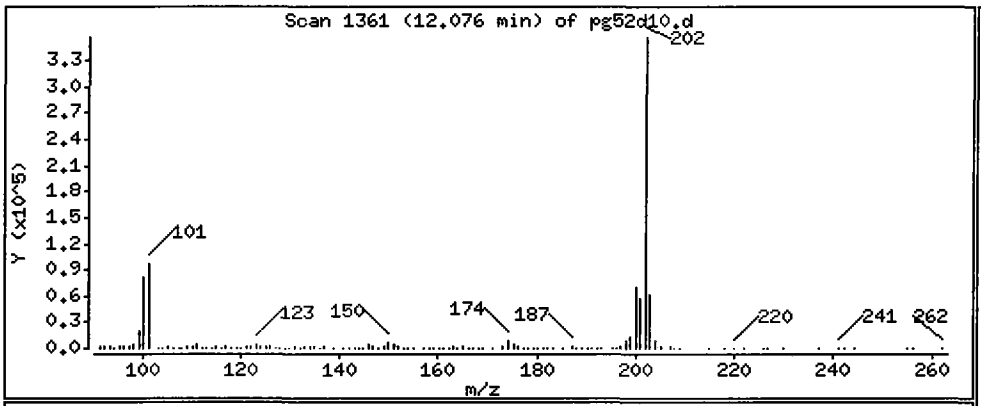
Operator: VTS

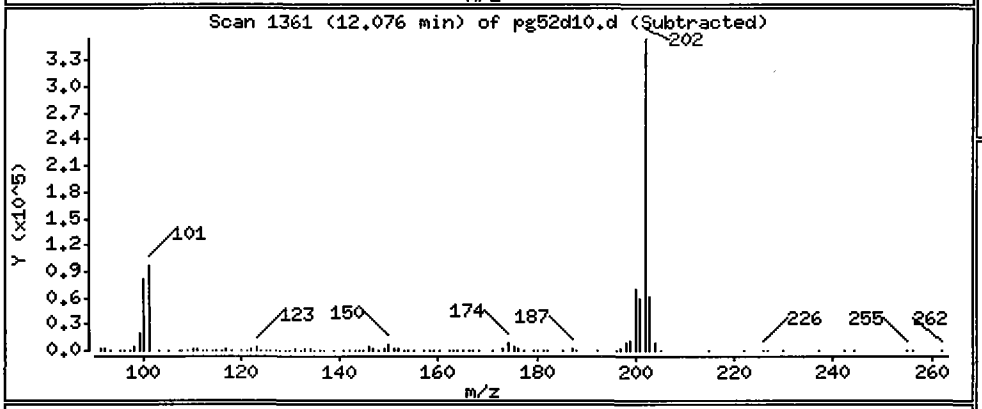
Column phase: ZB-5msi

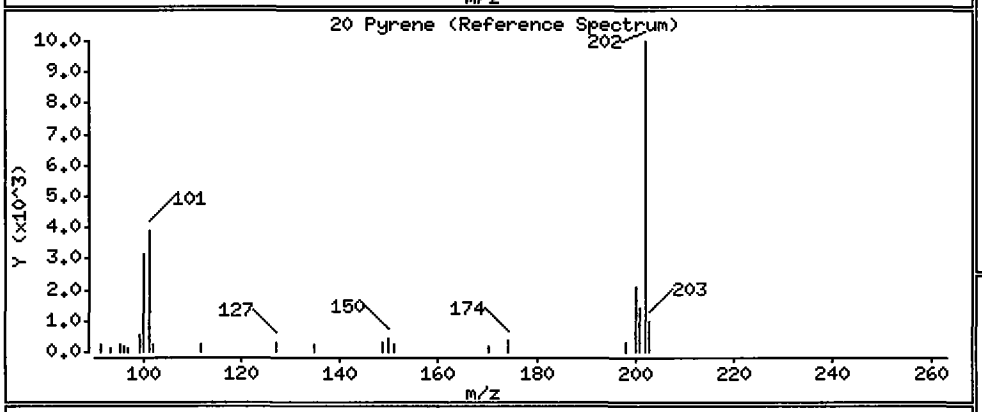
Column diameter: 0.25

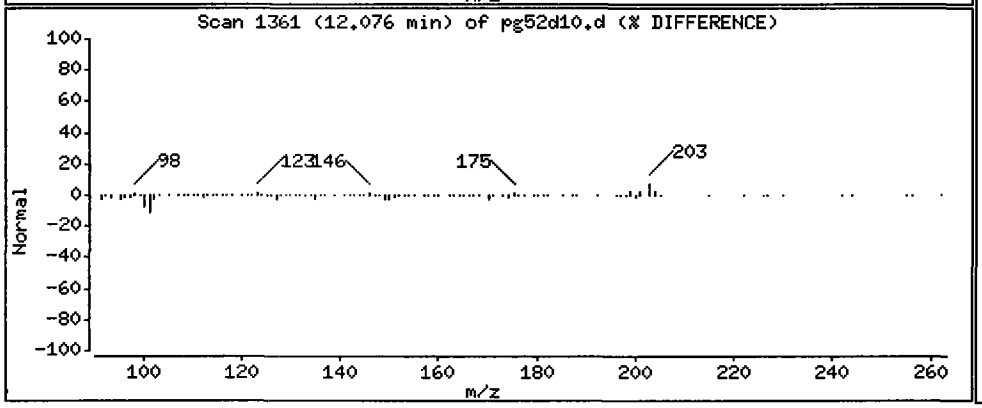
20 Pyrene

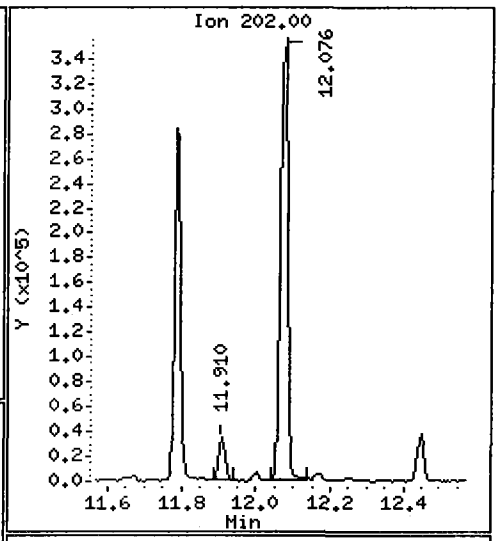
Concentration: 1132 ug/kg

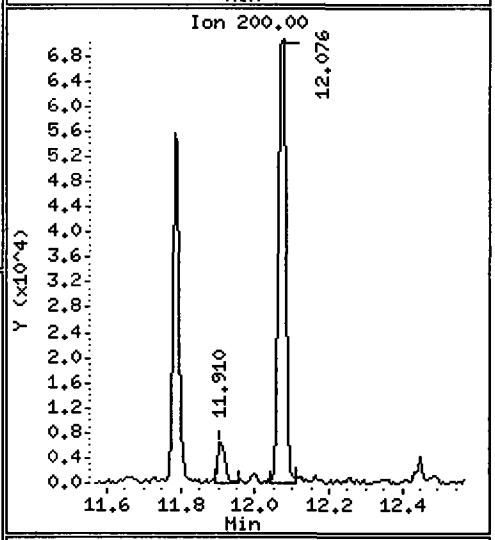


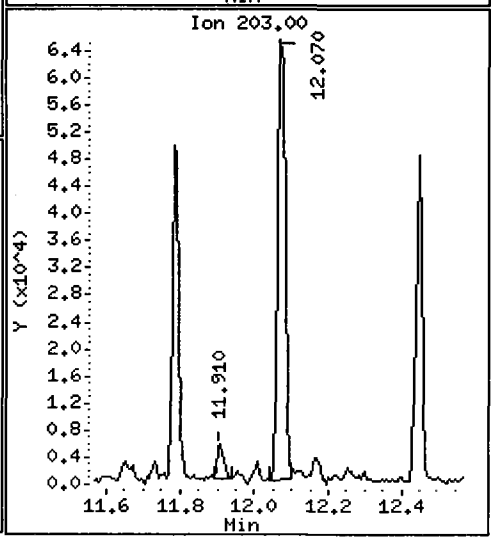












Data File: /chem3/nt1.i/20090718.b/pg52d10.d

Date : 18-JUL-2009 12:11

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D,10

Volume Injected (uL): 1.0

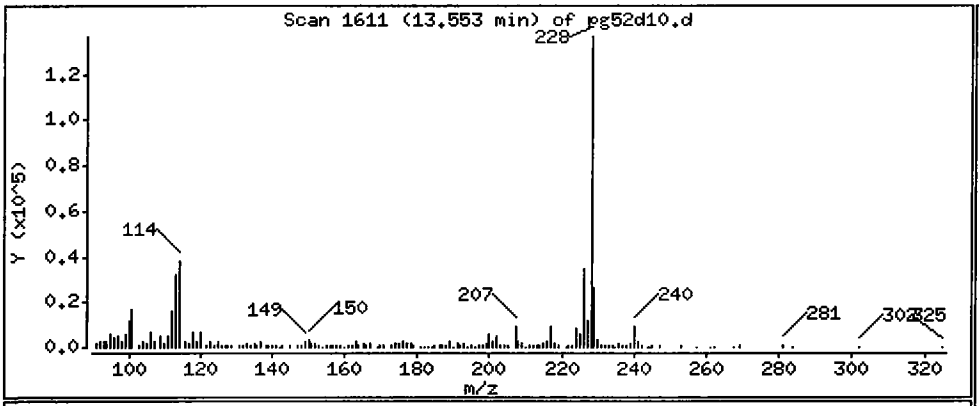
Operator: VTS

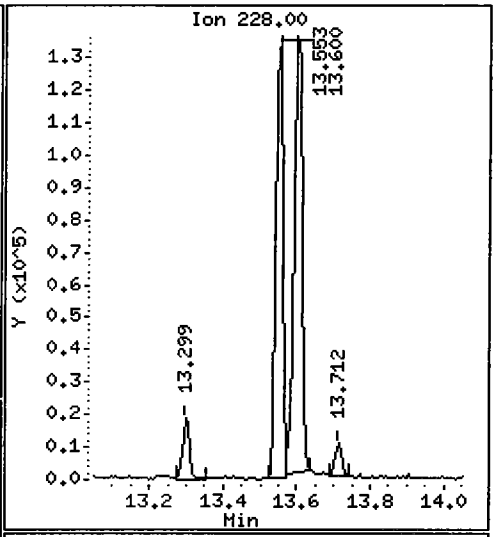
Column phase: ZB-5msi

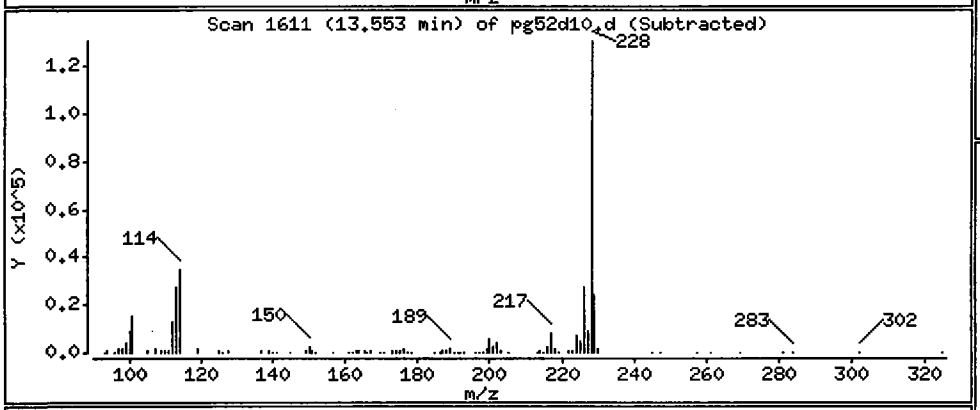
Column diameter: 0.25

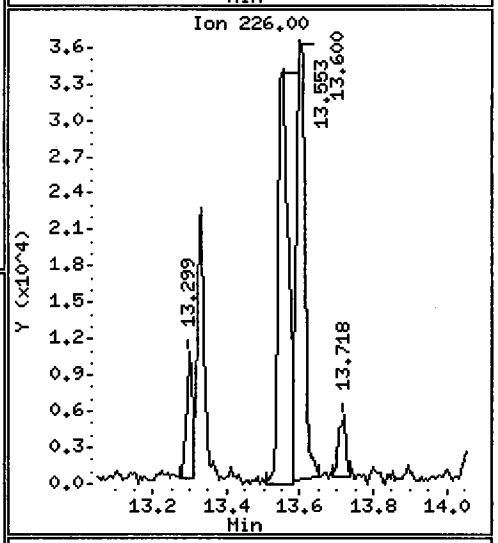
22 Benzo(a)anthracene

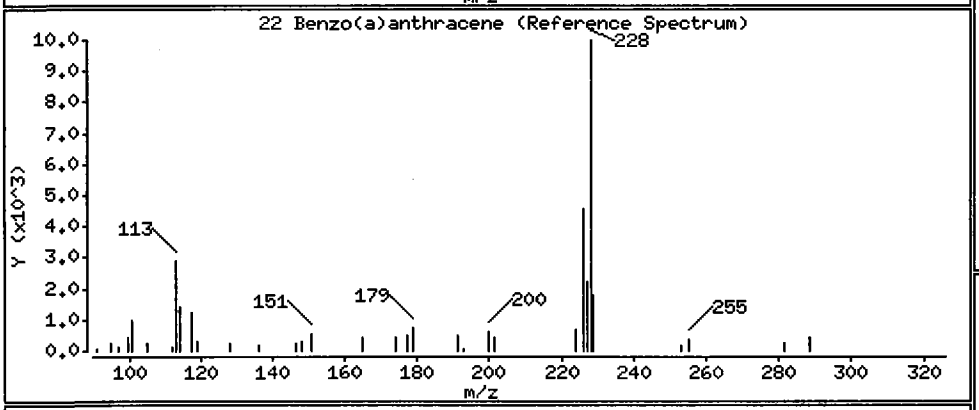
Concentration: 589.6 ug/kg

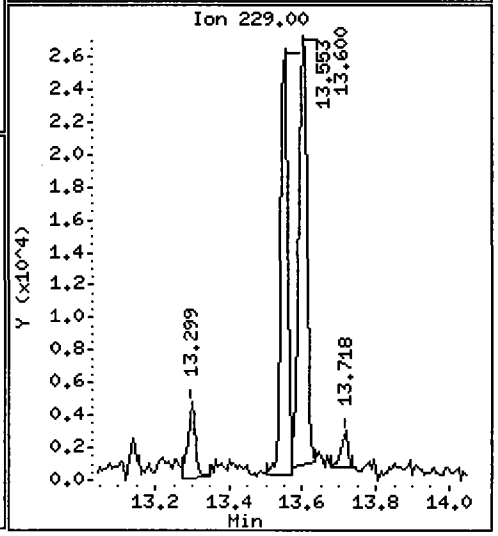


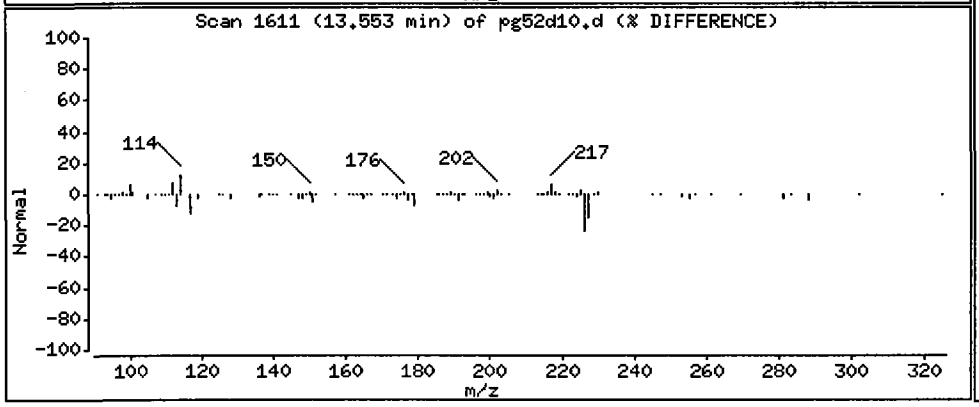












Data File: /chem3/nt1.i/20090718.b/pg52d10.d

Date : 18-JUL-2009 12:11

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D,10

Volume Injected (uL): 1.0

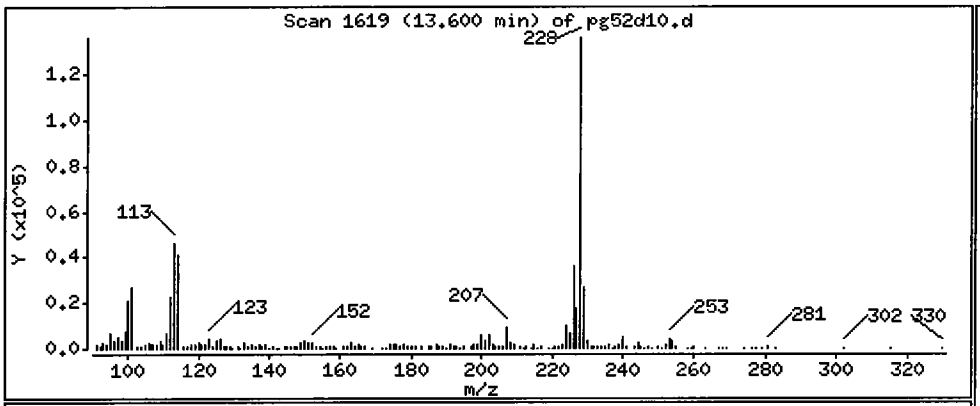
Operator: VTS

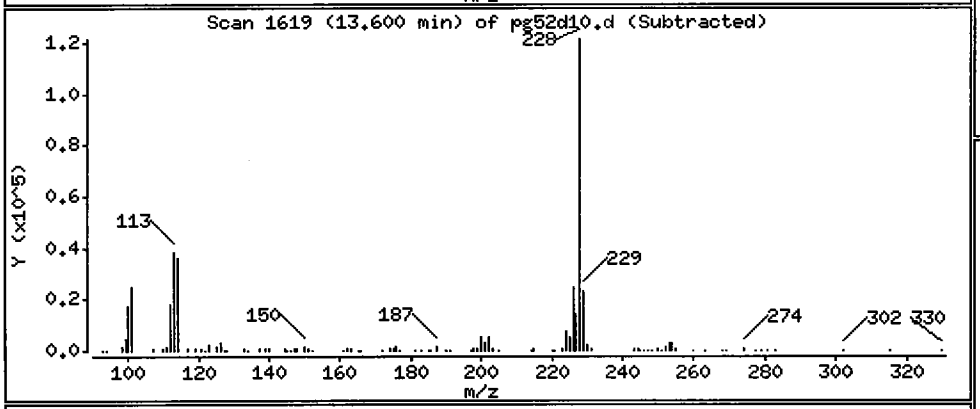
Column phase: ZB-5msi

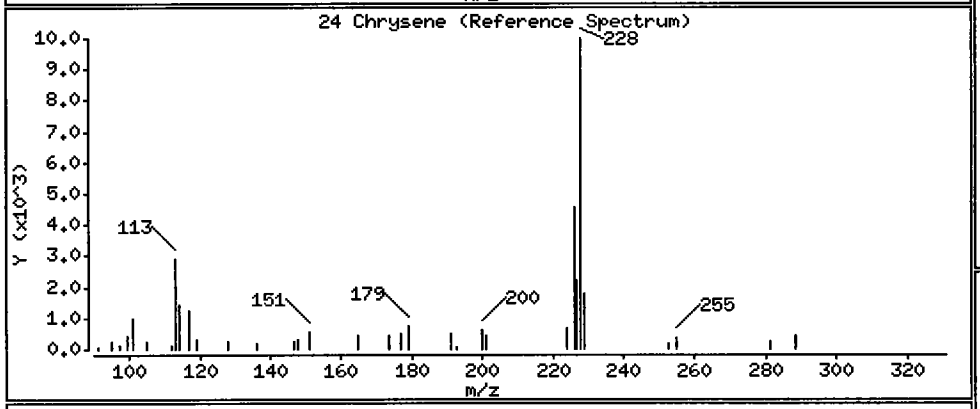
Column diameter: 0.25

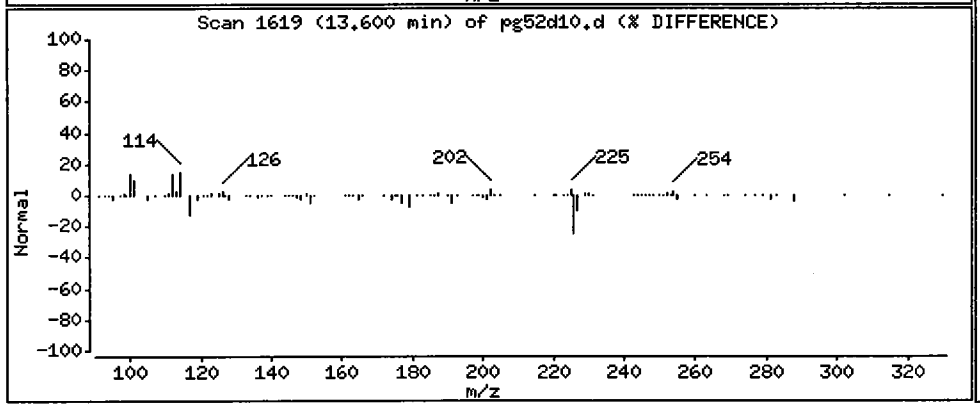
24 Chrysene

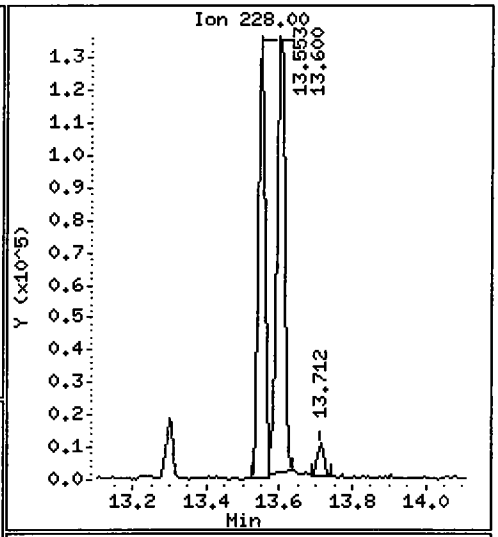
Concentration: 662.9 ug/kg

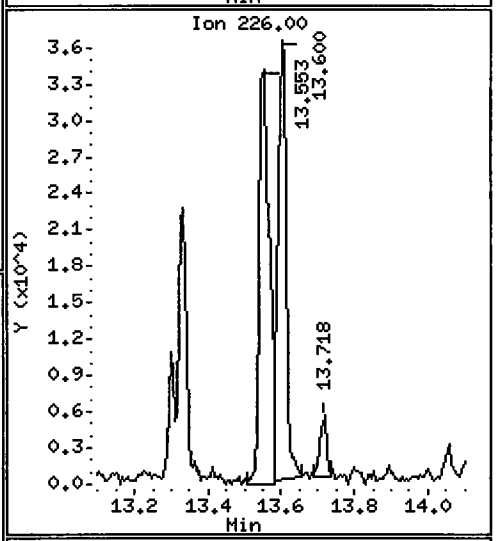


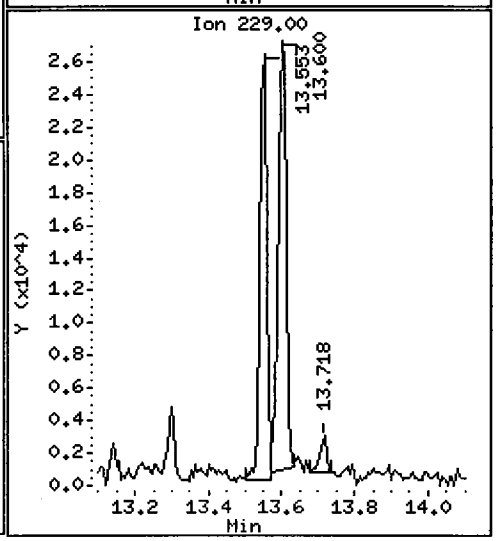












Data File: /chem3/nt1.i/20090718.b/pg52d10.d

Date : 18-JUL-2009 12:11

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D,10

Volume Injected (uL): 1.0

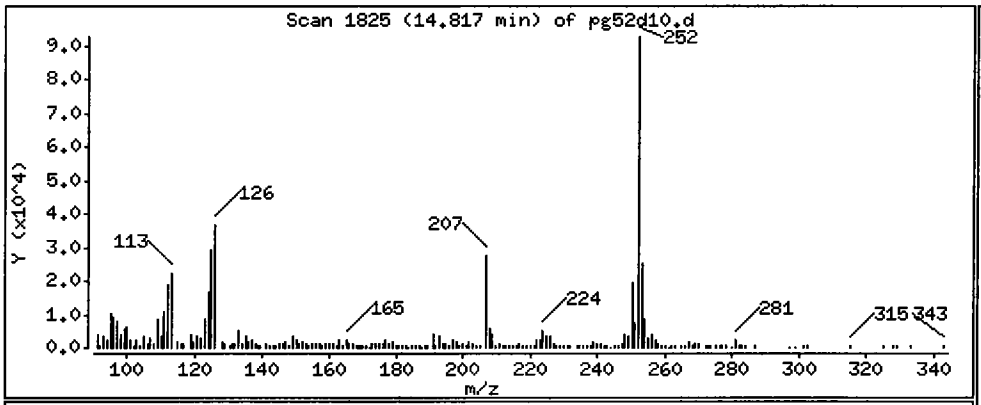
Operator: VTS

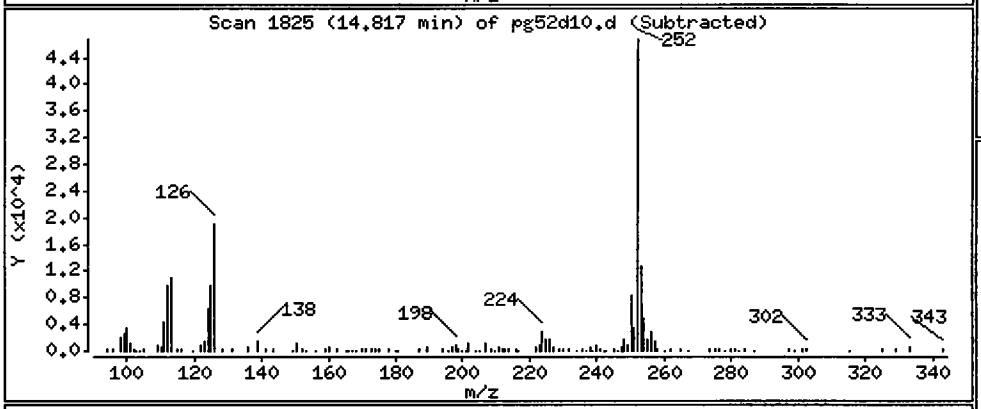
Column phase: ZB-5msi

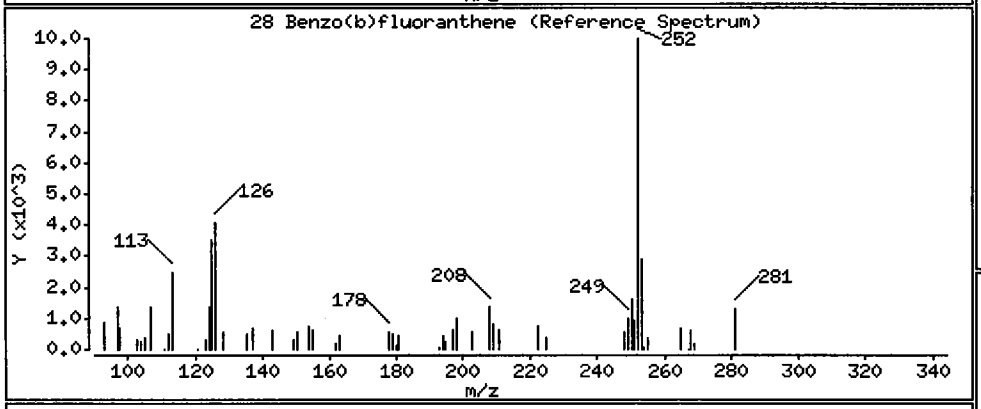
Column diameter: 0.25

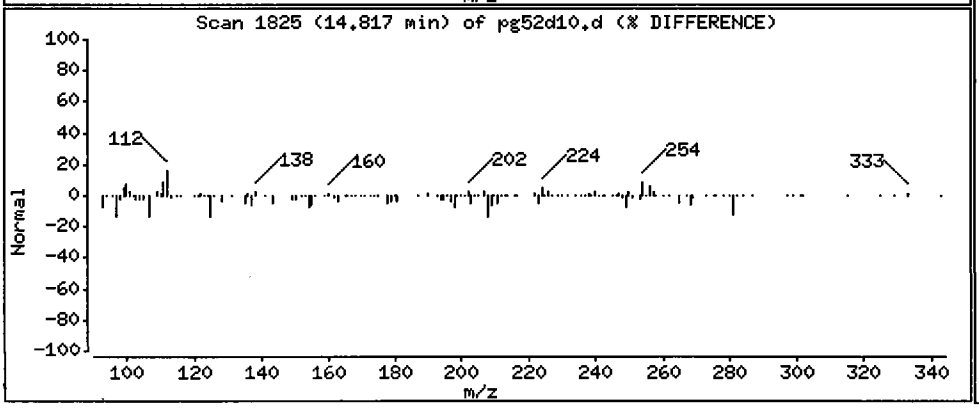
28 Benzo(b)fluoranthene

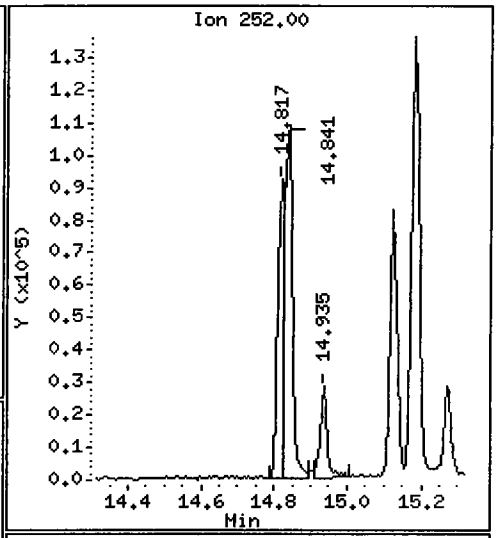
Concentration: 351.7 ug/kg

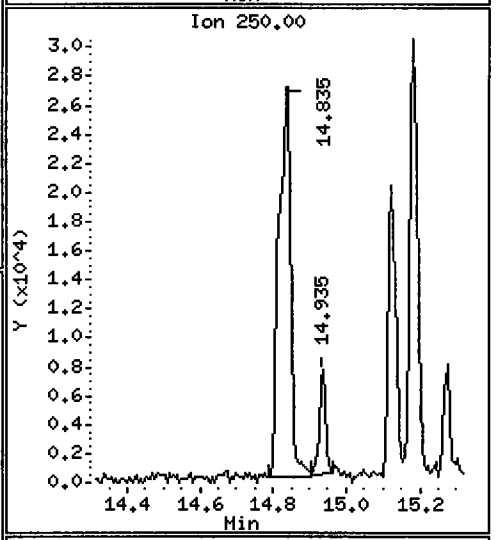


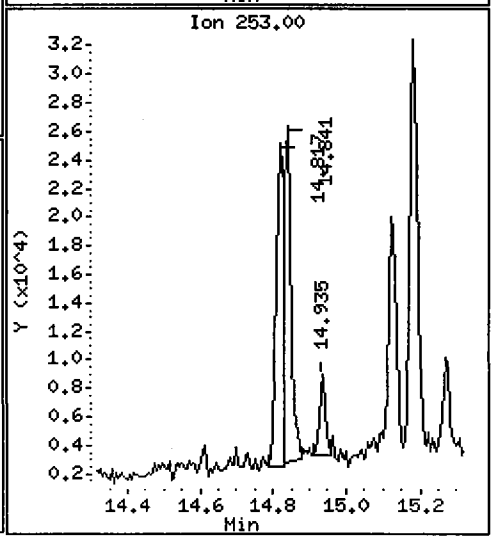












Data File: /chem3/nt1.i/20090718.b/pg52d10.d

Date : 18-JUL-2009 12:11

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D,10

Volume Injected (uL): 1.0

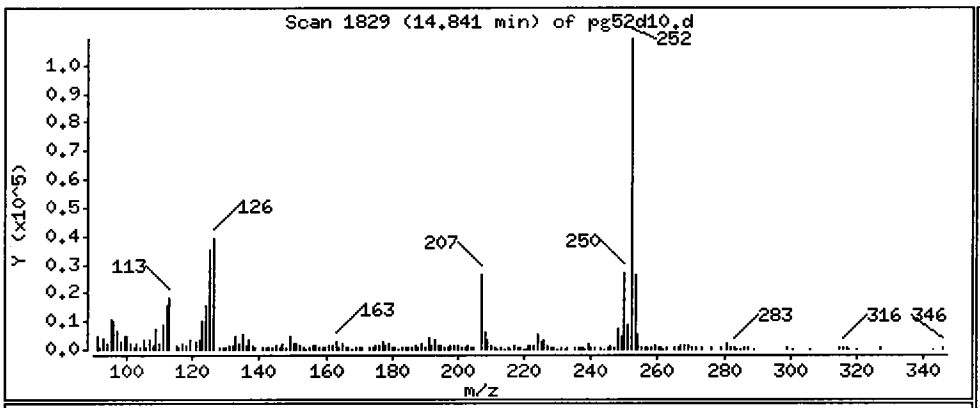
Operator: VTS

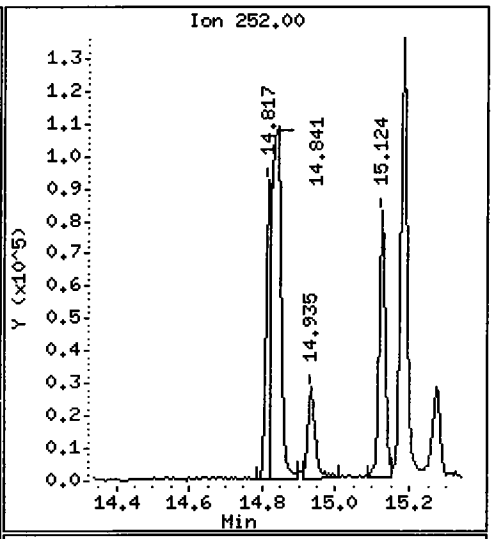
Column phase: ZB-5msi

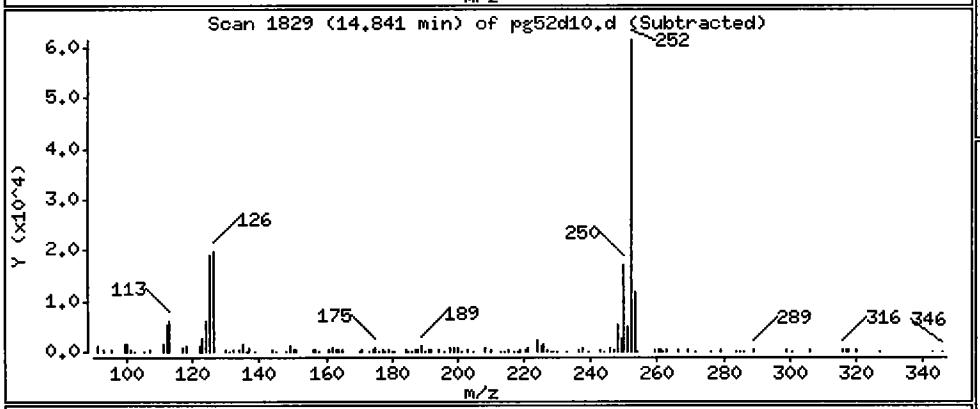
Column diameter: 0.25

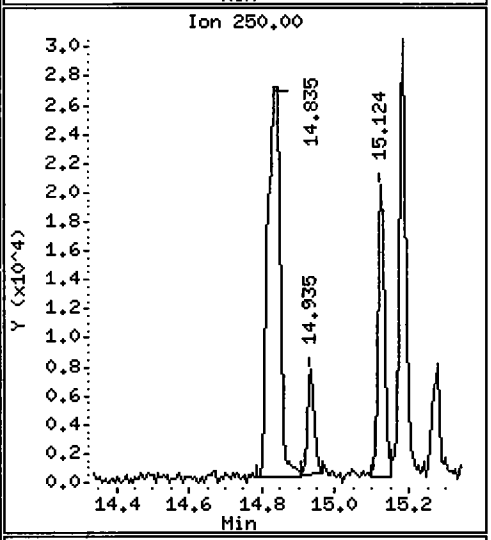
29 Benzo(k)fluoranthene

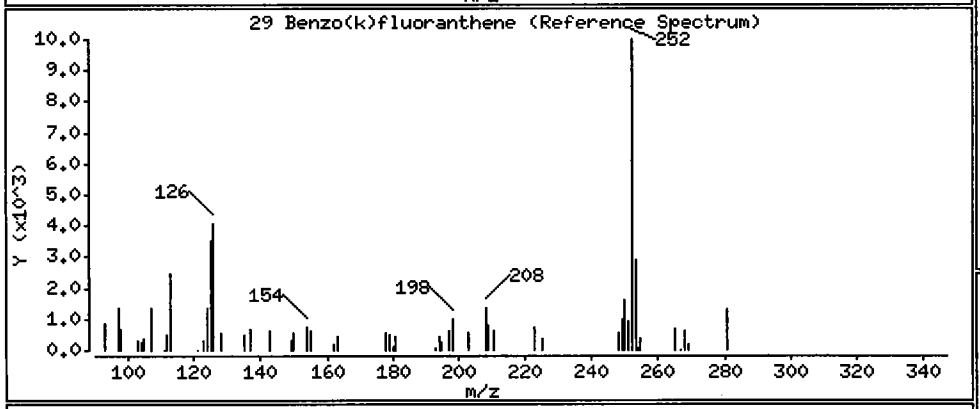
Concentration: 647.6 ug/kg

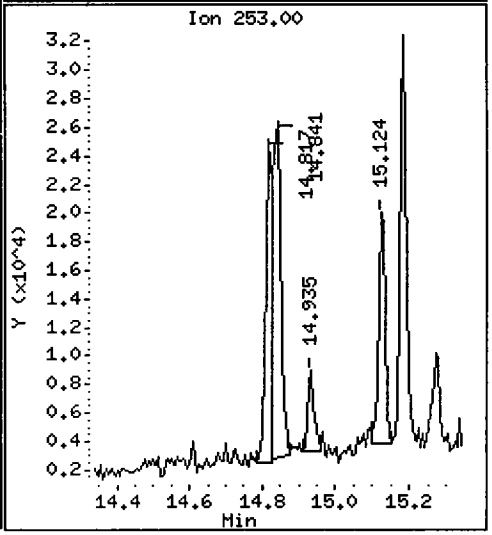


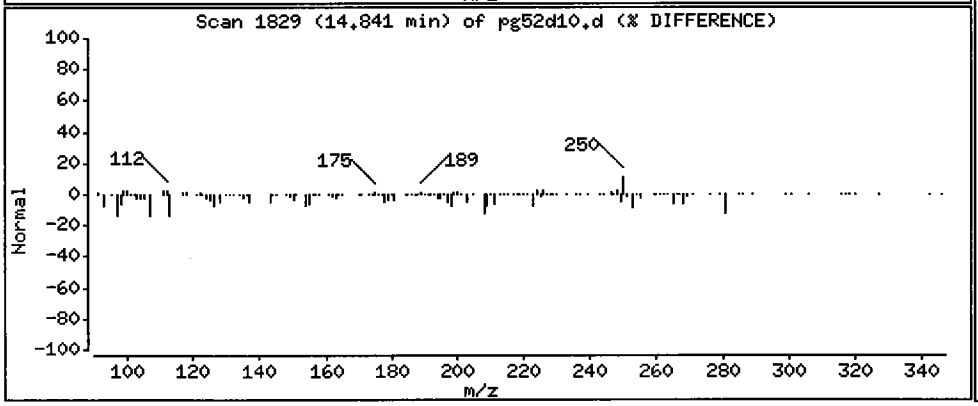












Data File: /chem3/nt1.i/20090718.b/pg52d10.d

Date : 18-JUL-2009 12:11

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D,10

Volume Injected (uL): 1.0

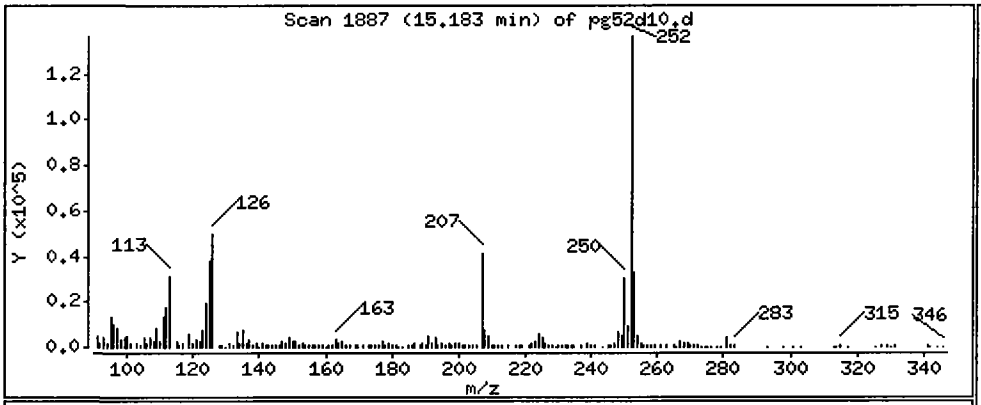
Operator: VTS

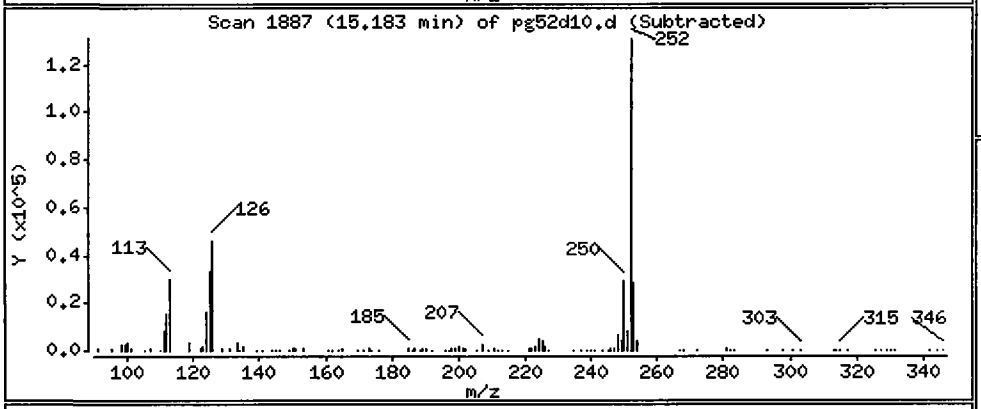
Column phase: ZB-5msi

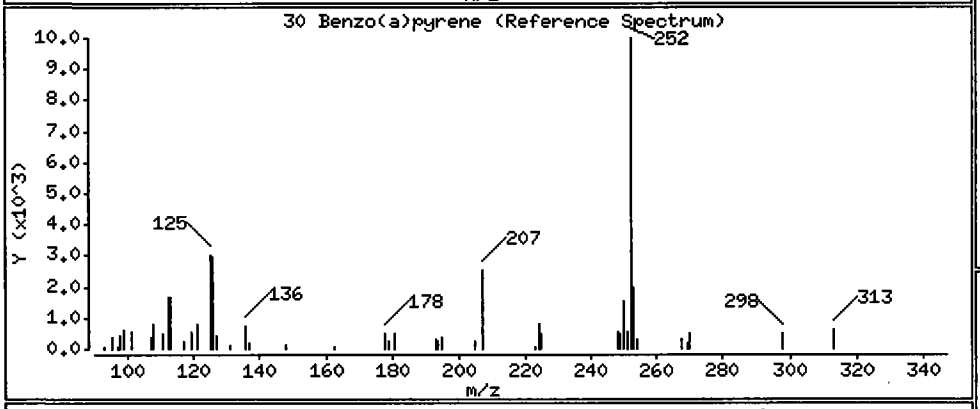
Column diameter: 0.25

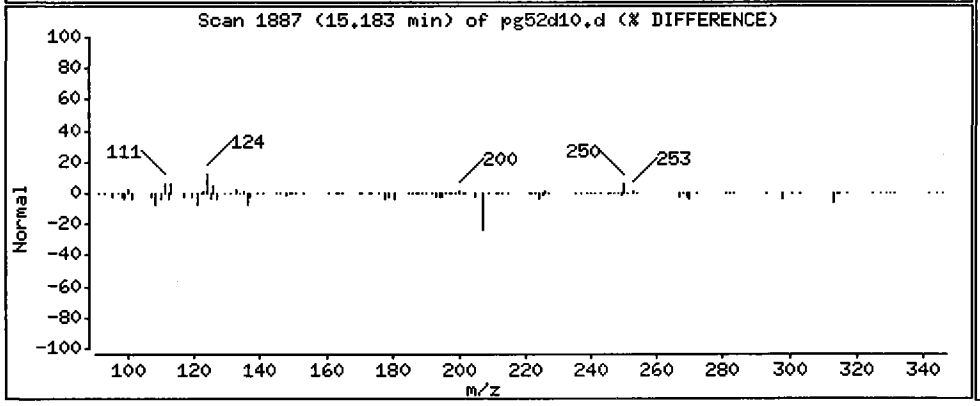
30 Benzo(a)pyrene

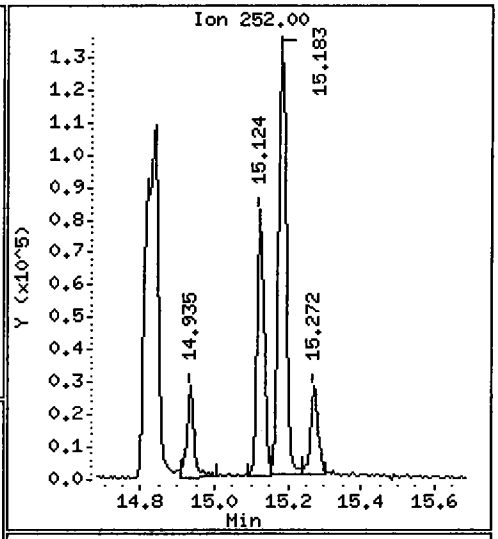
Concentration: 766.8 ug/kg

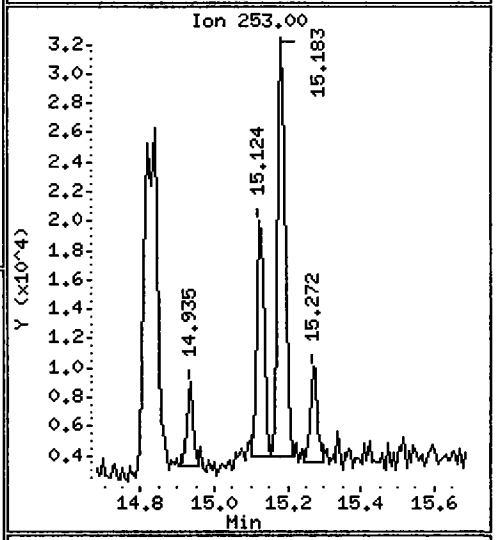


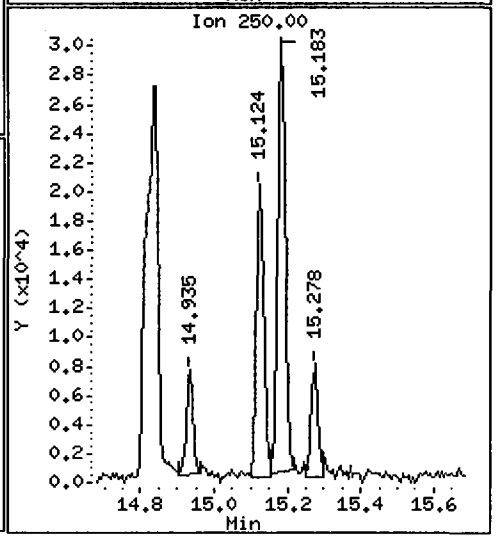












Data File: /chem3/nt1.i/20090718.b/pg52d10.d

Date : 18-JUL-2009 12:11

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D,10

Volume Injected (uL): 1.0

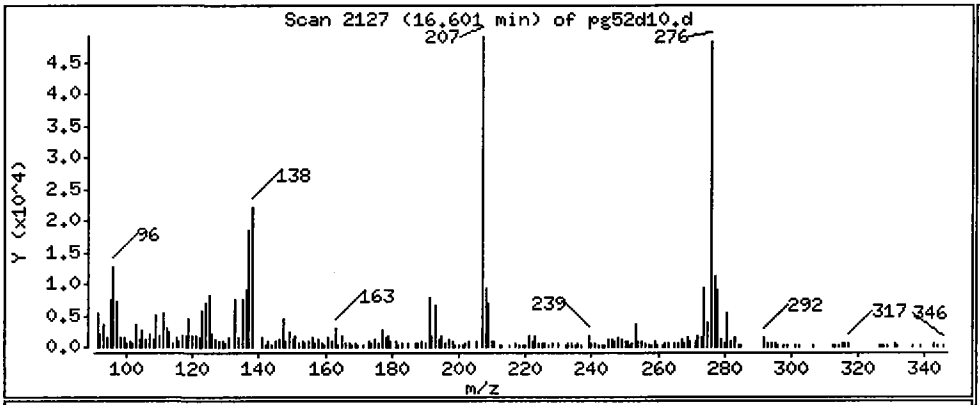
Operator: VTS

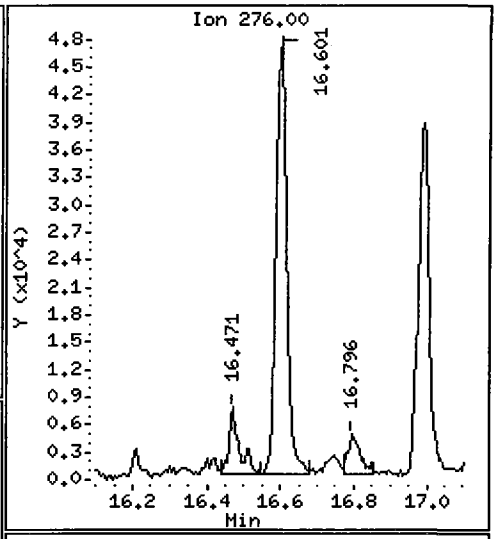
Column phase: ZB-5msi

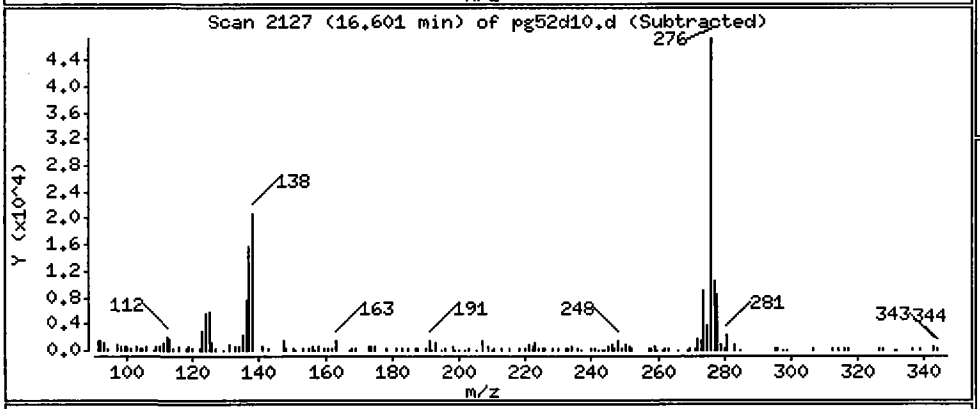
Column diameter: 0.25

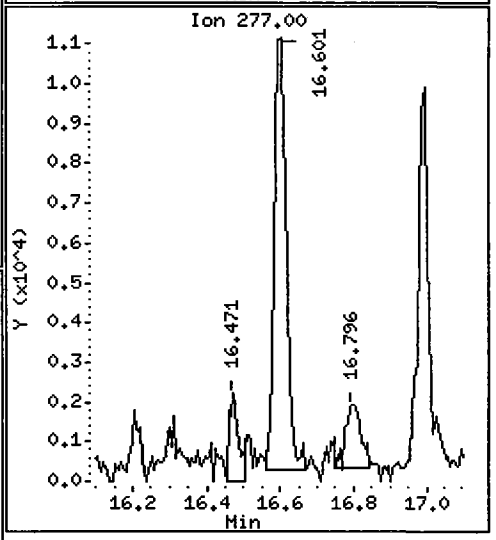
33 Indeno(1,2,3-cd)pyrene

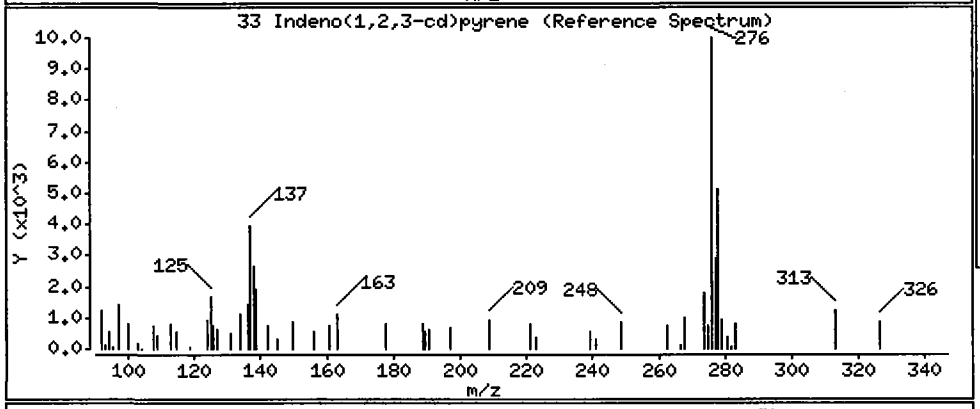
Concentration: 382.7 ug/kg

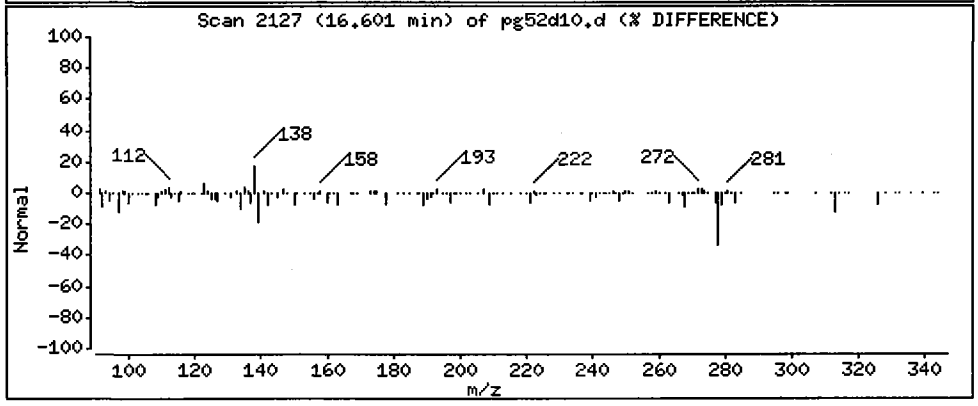












Data File: /chem3/nt1.i/20090718.b/pg52d10.d

Date : 18-JUL-2009 12:11

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D,10

Volume Injected (uL): 1.0

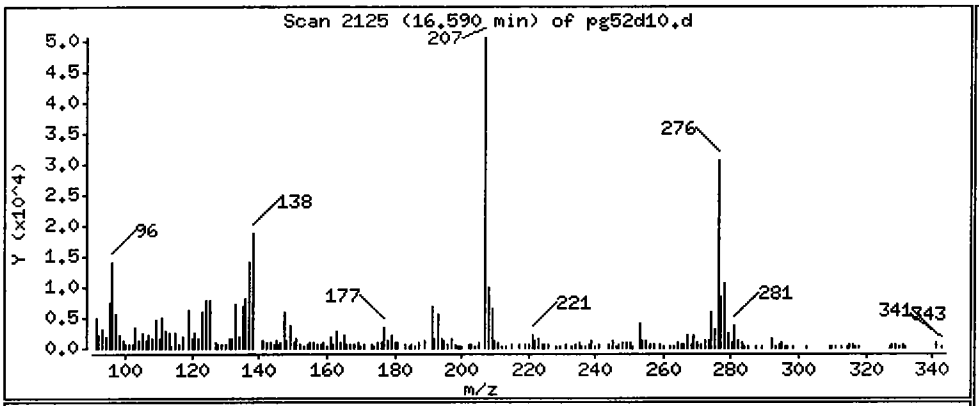
Operator: VTS

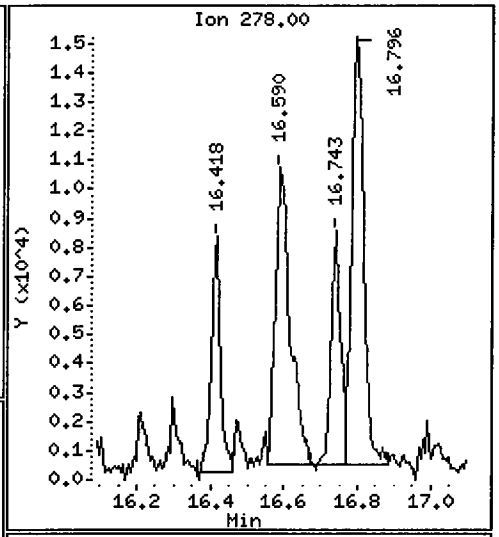
Column phase: ZB-5msi

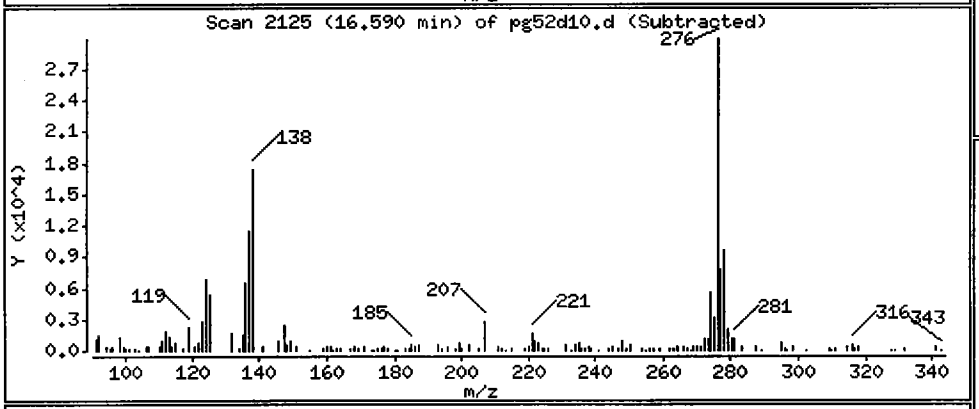
Column diameter: 0.25

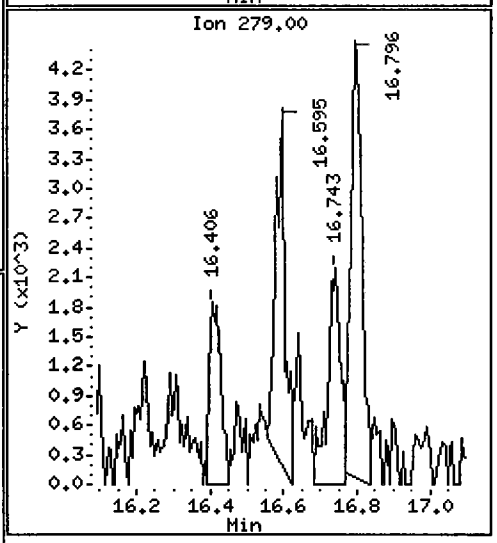
34 Dibenz(a,h)anthracene

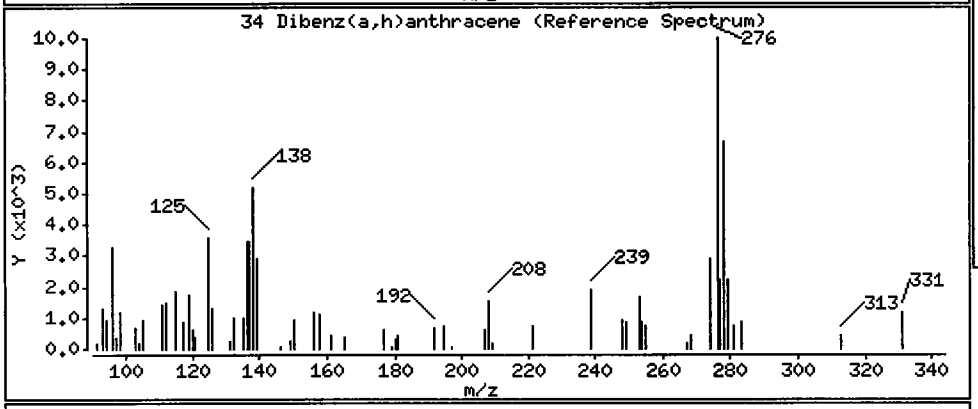
Concentration: 158.0 ug/kg

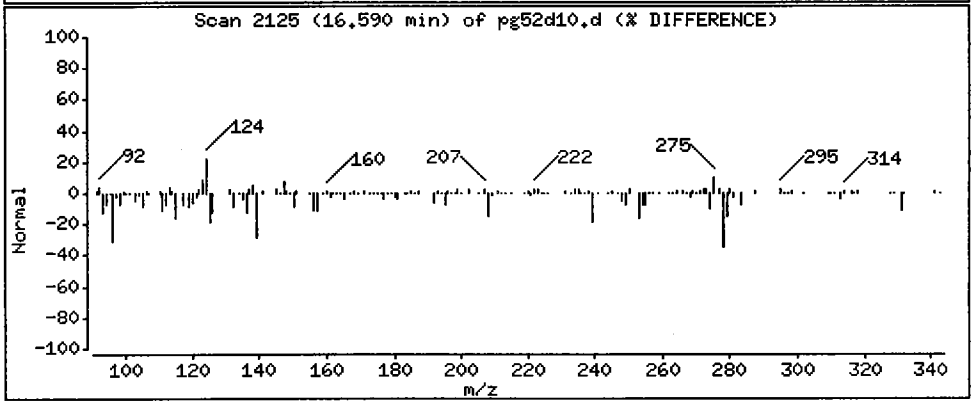












Data File: /chem3/nt1.i/20090718.b/pg52d10.d

Date : 18-JUL-2009 12:11

Client ID: AHA-01-1SW(0-3)

Instrument: nt1.i

Sample Info: PG52D,10

Volume Injected (uL): 1.0

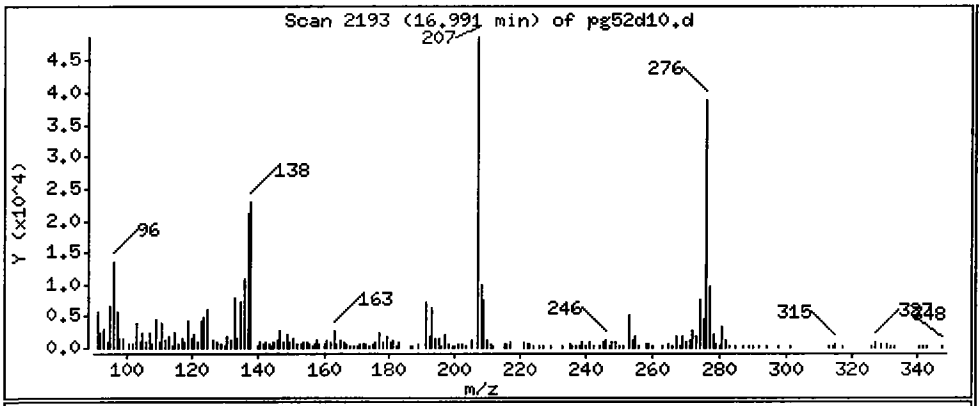
Operator: VTS

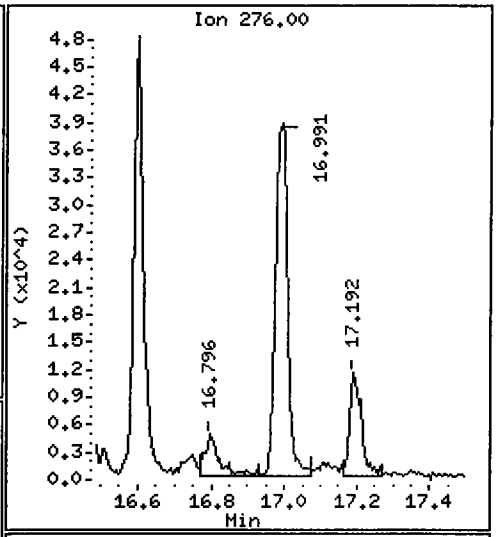
Column phase: ZB-5msi

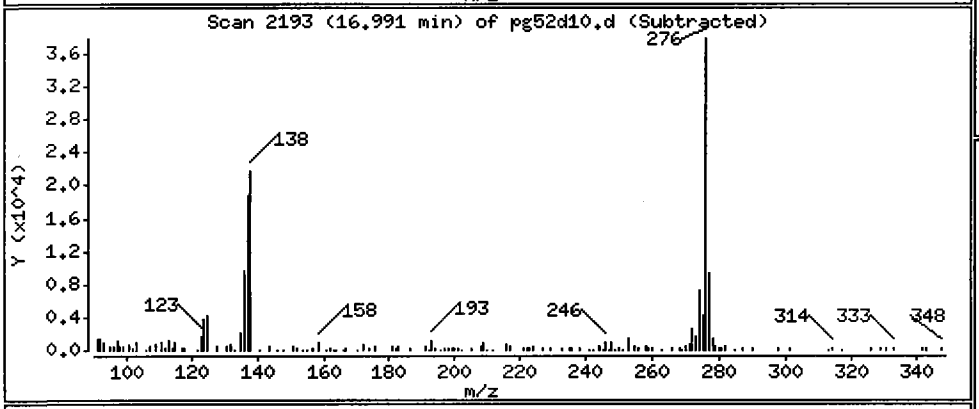
Column diameter: 0.25

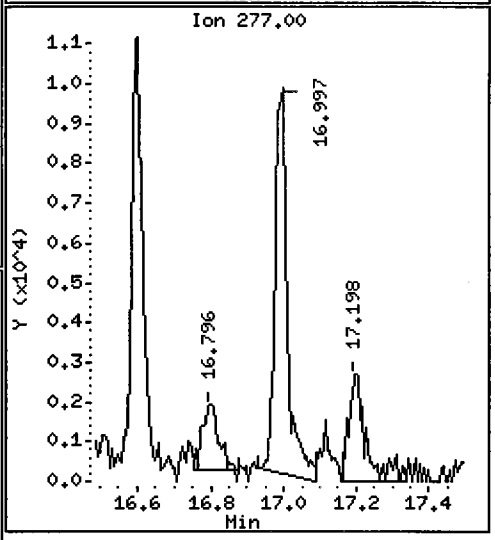
35 Benzo(g,h,i)perylene

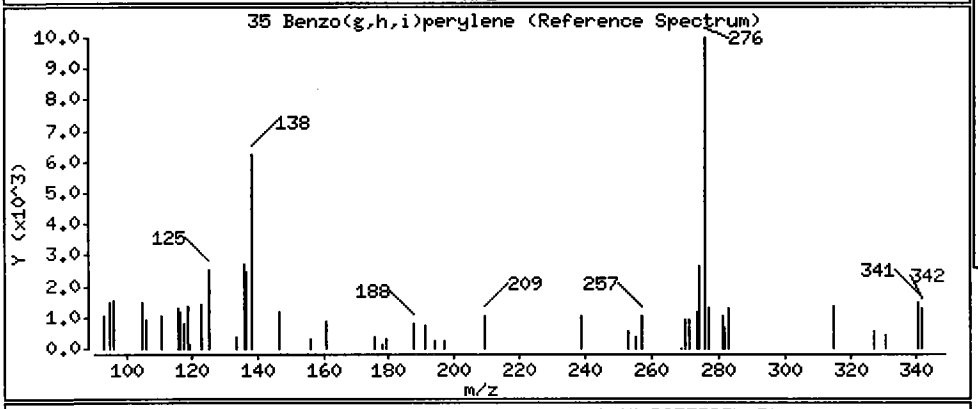
Concentration: 392.4 ug/kg

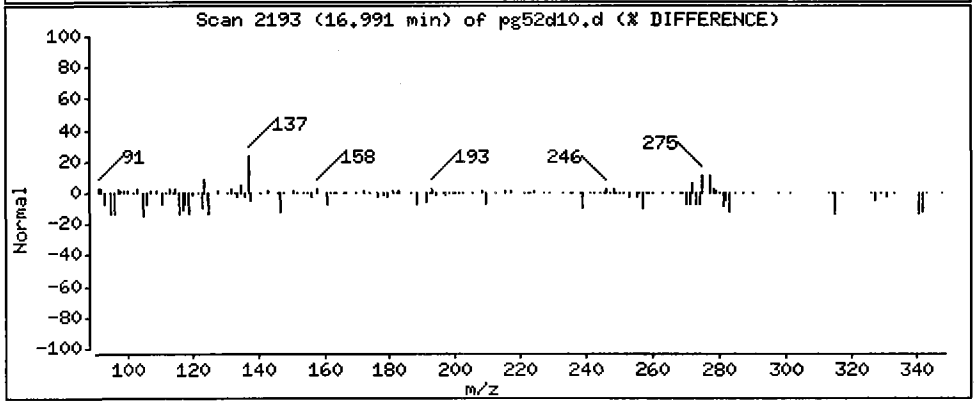












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: AHA-01-1SE(0-3)
SAMPLE

Lab Sample ID: PG52H
LIMS ID: 09-16493
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 07/14/09
Date Analyzed: 07/18/09 12:37
Instrument/Analyst: NT1/YZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.9 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 2.00
Percent Moisture: 18.7%

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**9.2**	**35**
91-57-6	**2-Methylnaphthalene**	**9.2**	**13**
90-12-0	1-Methylnaphthalene	9.2	< 9.2 U
208-96-8	**Acenaphthylene**	**9.2**	**99**
83-32-9	Acenaphthene	9.2	< 9.2 U
86-73-7	**Fluorene**	**9.2**	**9.2**
85-01-8	**Phenanthrene**	**9.2**	**180**
120-12-7	**Anthracene**	**9.2**	**35**
206-44-0	**Fluoranthene**	**9.2**	**570**
129-00-0	**Pyrene**	**9.2**	**730**
56-55-3	**Benzo(a)anthracene**	**9.2**	**410**
218-01-9	**Chrysene**	**9.2**	**490**
205-99-2	**Benzo(b)fluoranthene**	**9.2**	**320**
207-08-9	**Benzo(k)fluoranthene**	**9.2**	**490**
50-32-8	**Benzo(a)pyrene**	**9.2**	**620**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**9.2**	**340**
53-70-3	**Dibenz(a,h)anthracene**	**9.2**	**150**
191-24-2	**Benzo(g,h,i)perylene**	**9.2**	**360**
132-64-9	Dibenzofuran	9.2	< 9.2 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	73.3%
d14-Dibenzo(a,h)anthracen	110%

YZ 7/18/09

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20090718.b/pg52h2.d
Lab Smp Id: PG52H Client Smp ID: AHA-01-1SE(0-3)
Inj Date : 18-JUL-2009 12:37
Operator : VTS Inst ID: nt1.i
Smp Info : PG52H,2
Misc Info : 09-16493
Comment : 1ul Injection
Method : /chem3/nt1.i/20090718.b/simpna.m
Meth Date : 18-Jul-2009 11:36 yev Quant Type: ISTD
Cal Date : 11-JUL-2009 14:37 Cal File: ic0711f.d
Als bottle: 4
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	2.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	13.40000	Weight of sample extracted (g)
M	18.70000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
*	1 Naphthalene-d8	136	6.450	6.452	(1.000)	515716	2.00000	
	2 Naphthalene	128	6.474	6.476	(1.004)	86247	0.38044	34.92
$	3 2-Methylnaphthalene-d10	152	7.201	7.196	(1.116)	125280	1.09985	101.0
	4 2-Methylnaphthalene	142	7.236	7.232	(1.122)	17044	0.13533	12.42
	5 1-Methylnaphthalene	142	7.360	7.362	(1.141)	8699	0.06989J	6.415
	7 Acenaphthylene	152	8.306	8.301	(0.979)	201695	1.07992	99.13
*	8 Acenaphthene-d10	164	8.483	8.484	(1.000)	241594	2.00000	
	9 Acenaphthene	153	Compound Not Detected.					
	10 Dibenzofuran	168	Compound Not Detected.					
	11 Fluorene	166	9.127	9.128	(1.076)	11809	0.09770	8.968
*	15 Phenanthrene-d10	188	10.279	10.280	(1.000)	367774	2.00000	
	16 Phenanthrene	178	10.308	10.304	(1.003)	337508	1.97907	181.7
	17 Anthracene	178	10.362	10.363	(1.008)	64080	0.37681	34.59
	19 Fluoranthene	202	11.791	11.787	(1.147)	976348	6.21518	570.5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.075	12.070	(0.889)	1477063	7.99862	734.2
	22 Benzo(a)anthracene	228	13.552	13.553	(0.998)	574401	4.42916	406.6
*	23 Chrysene-d12	240	13.576	13.571	(1.000)	275741	2.00000	
	24 Chrysene	228	13.605	13.607	(1.002)	723504	5.33127	489.4
	28 Benzo(b)fluoranthene	252	14.822	14.818	(0.972)	453115	3.46558	318.1
	29 Benzo(k)fluoranthene	252	14.840	14.841	(0.973)	755971	5.39086	494.8
	30 Benzo(a)pyrene	252	15.188	15.184	(0.996)	747817	6.79986	624.2
*	31 Perylene-d12	264	15.248	15.243	(1.000)	261401	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	16.606	16.602	(1.089)	416617	3.71890	341.4
$	32 Dibenz(a,h)anthrancene-d14	292	16.553	16.549	(1.086)	106367	1.64748	151.2
	34 Dibenz(a,h)anthracene	278	16.595	16.596	(1.088)	138003	1.62964	149.6
	35 Benzo(g,h,i)perylene	276	16.996	16.992	(1.115)	406183	3.87655	355.8

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: pg52h2.d
Lab Smp Id: PG52H
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20090718.b/simpna.m
Misc Info: 09-16493

Calibration Date: 18-JUL-2009
Calibration Time: 10:54
Client Smp ID: AHA-01-1SE(0-3)
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	463169	231584	926338	515716	11.35
8 Acenaphthene-d10	213444	106722	426888	241594	13.19
15 Phenanthrene-d10	326462	163231	652924	367774	12.65
23 Chrysene-d12	224038	112019	448076	275741	23.08
31 Perylene-d12	206230	103115	412460	261401	26.75

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.45	5.95	6.95	6.45	-0.02
8 Acenaphthene-d10	8.48	7.98	8.98	8.48	-0.02
15 Phenanthrene-d10	10.28	9.78	10.78	10.28	-0.01
23 Chrysene-d12	13.57	13.07	14.07	13.58	0.03
31 Perylene-d12	15.24	14.74	15.74	15.25	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

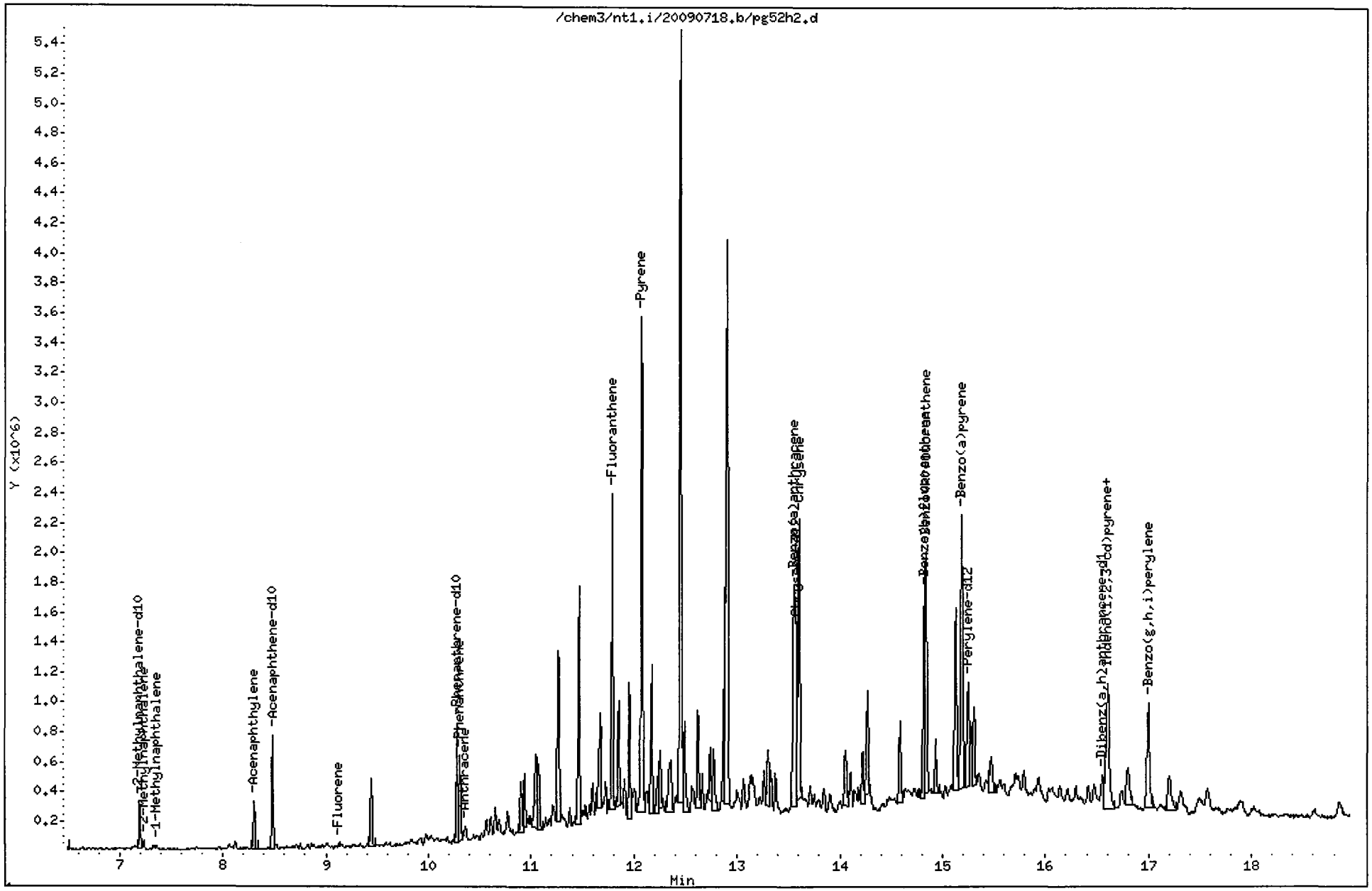
Client Name: Anchor QEA
Client SDG: PG52
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: PG52H
Client Smp ID: AHA-01-1SE(0-3)
Level: LOW
Operator: VTS
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: waterlcs.spk
Quant Type: ISTD
Sublist File: pna1mn.sub
Method File: /chem3/nt1.i/20090718.b/simpna.m
Misc Info: 09-16493

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	137.7	101.0	73.32	34-100
$ 32 Dibenz(a,h)anthran	137.7	151.2	109.83	10-117

Data File: /chem3/nt1.i/20090718.b/pg52h2.d
Date : 18-JUL-2009 12:37
Client ID: AHA-01-1SE(0-3)
Sample Info: PG52H,2
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

PG52H:00659



Data File: /chem3/nt1.i/20090718.b/pg52h2.d

Date : 18-JUL-2009 12:37

Client ID: AHA-01-1SE(0-3)

Instrument: nt1.i

Sample Info: PG52H,2

Volume Injected (uL): 1.0

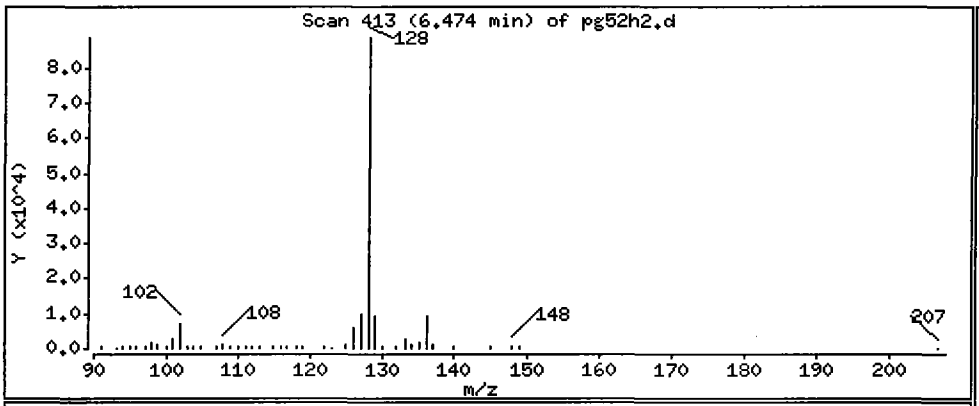
Operator: VTS

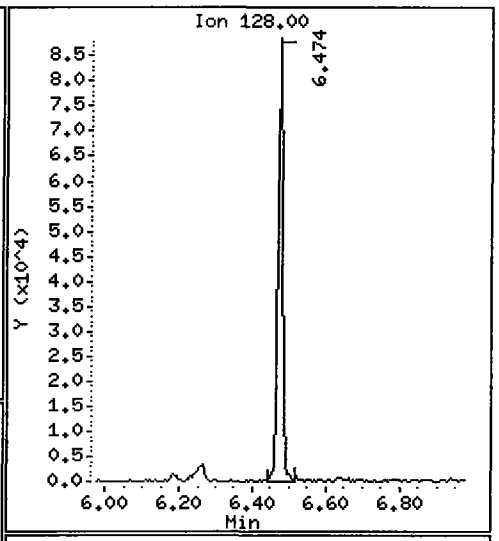
Column phase: ZB-5msi

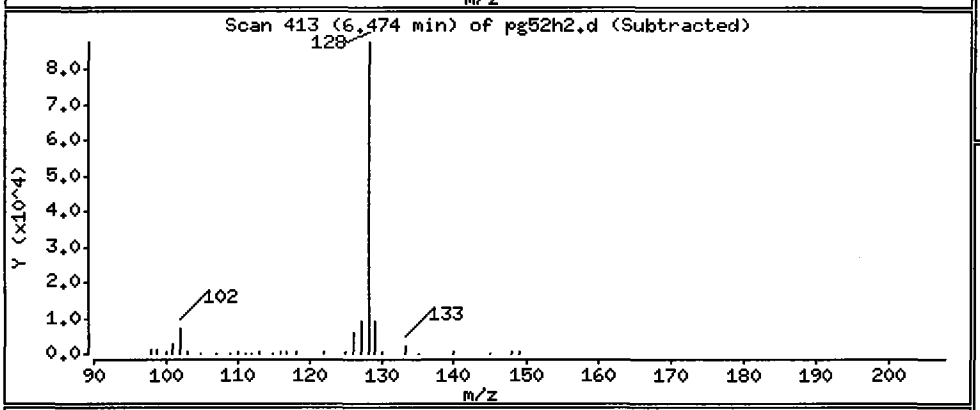
Column diameter: 0.25

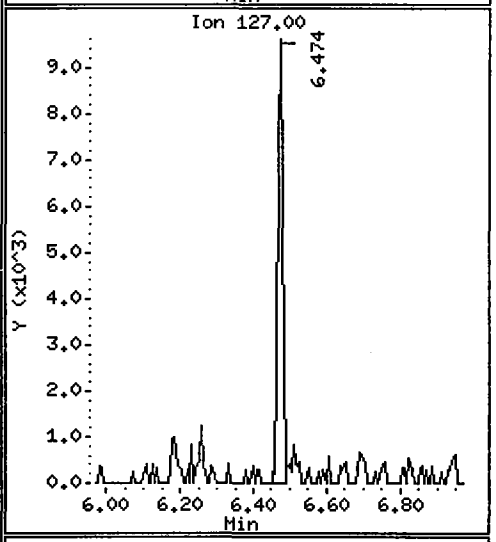
2 Naphthalene

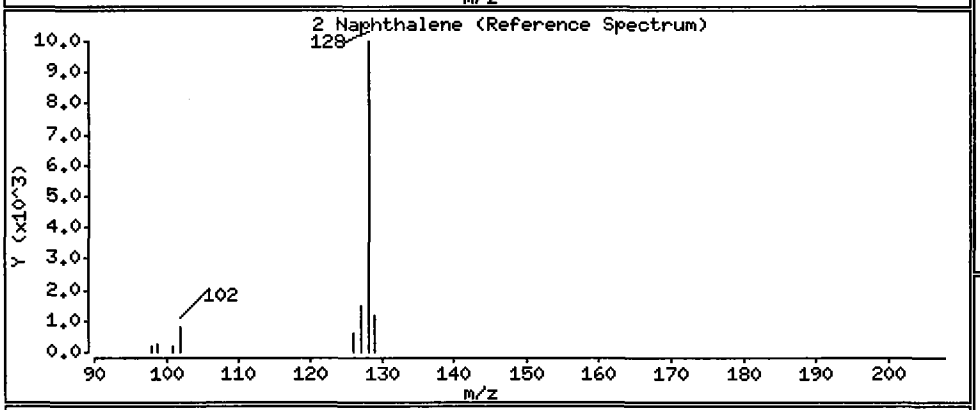
Concentration: 34.92 ug/kg

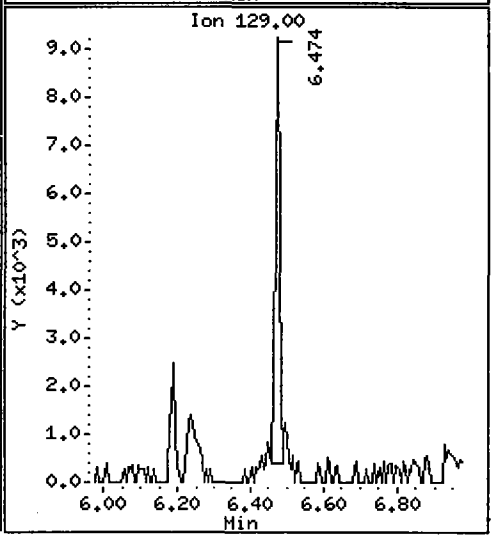


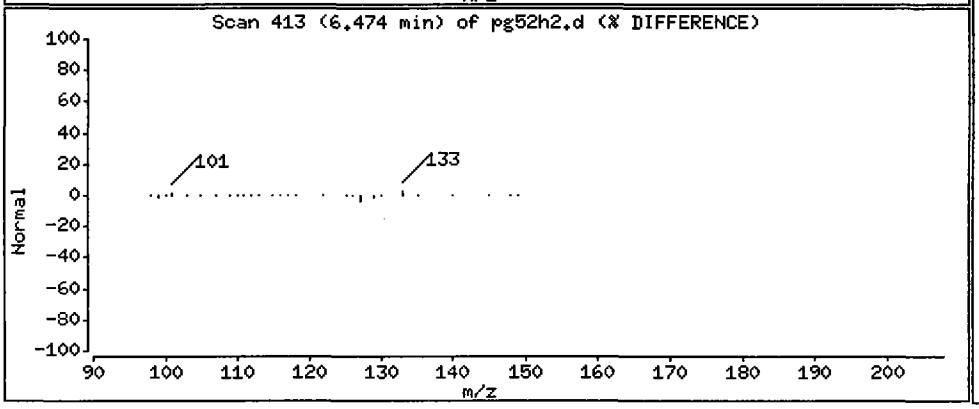












Data File: /chem3/nt1.i/20090718.b/pg52h2.d

Date : 18-JUL-2009 12:37

Client ID: AHA-01-1SE(0-3)

Instrument: nt1.i

Sample Info: PG52H,2

Volume Injected (uL): 1.0

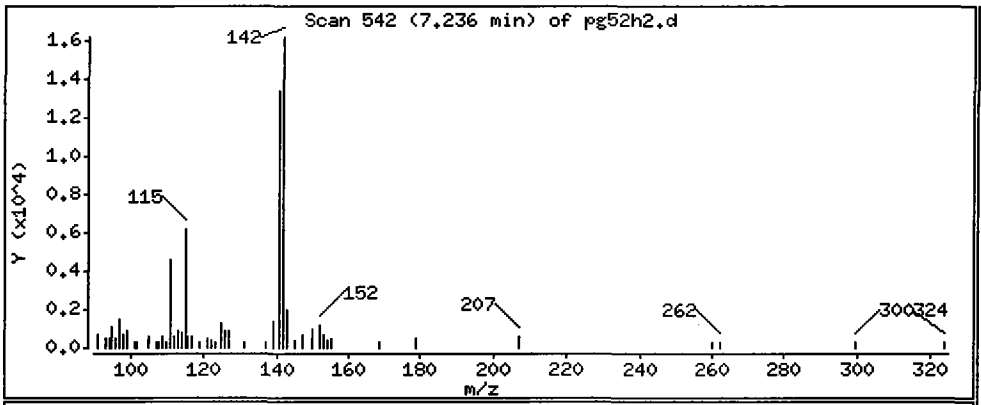
Operator: VTS

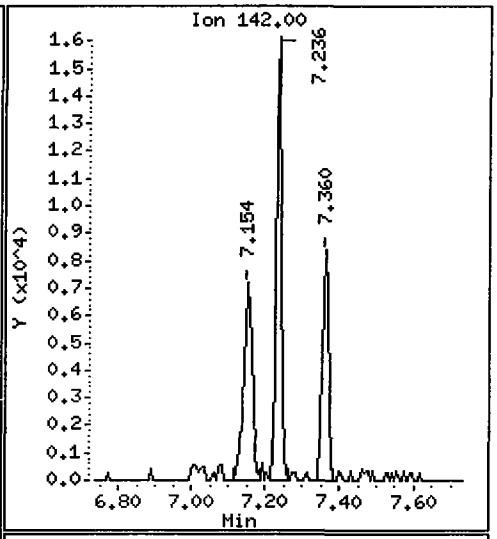
Column phase: ZB-5msi

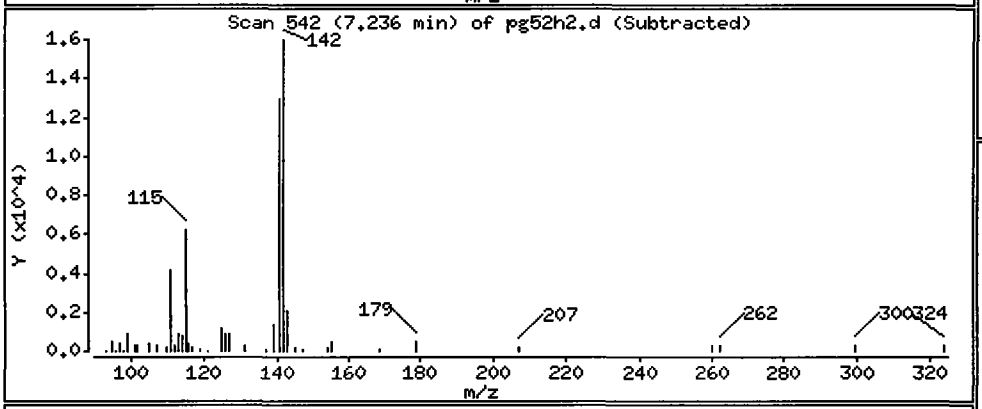
Column diameter: 0.25

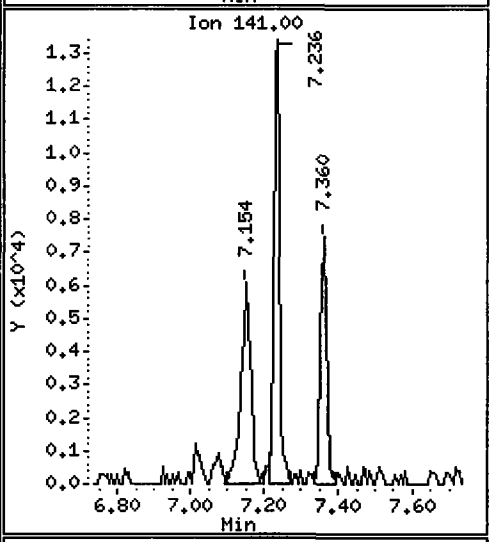
4 2-Methylnaphthalene

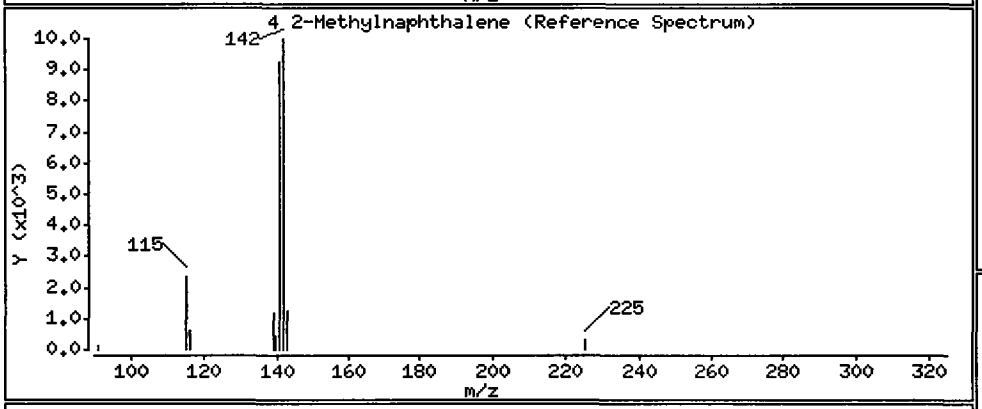
Concentration: 12.42 ug/kg

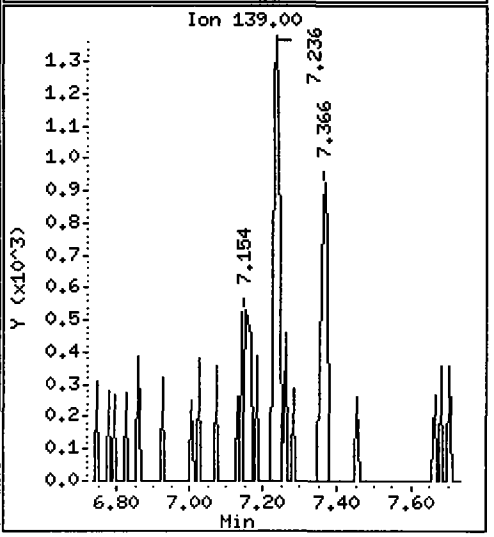


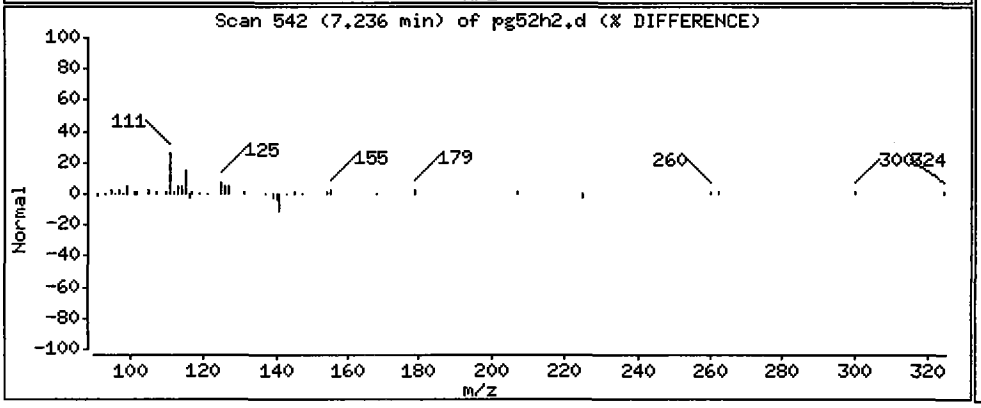












Data File: /chem3/nt1.i/20090718.b/pg52h2.d

Date : 18-JUL-2009 12:37

Client ID: AHA-01-1SE(0-3)

Instrument: nt1.i

Sample Info: PG52H,2

Volume Injected (uL): 1.0

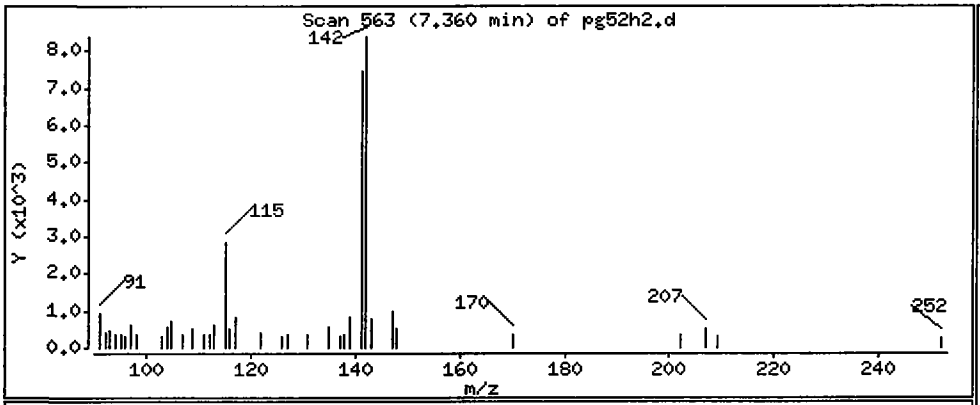
Operator: VTS

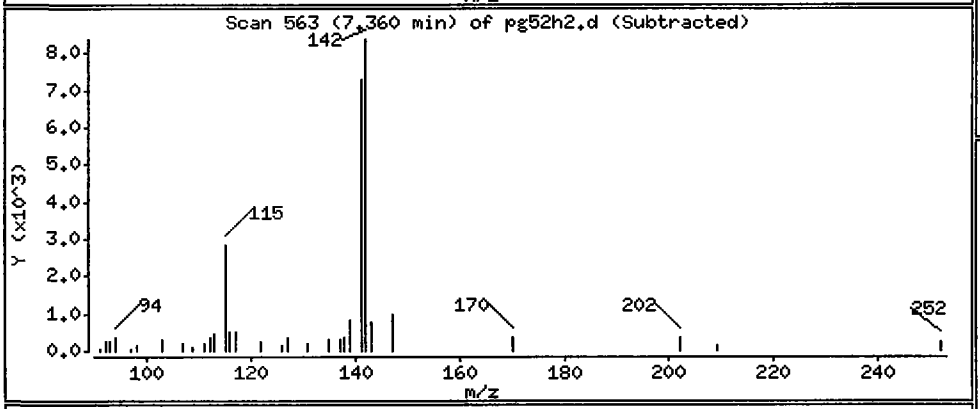
Column phase: ZB-5msi

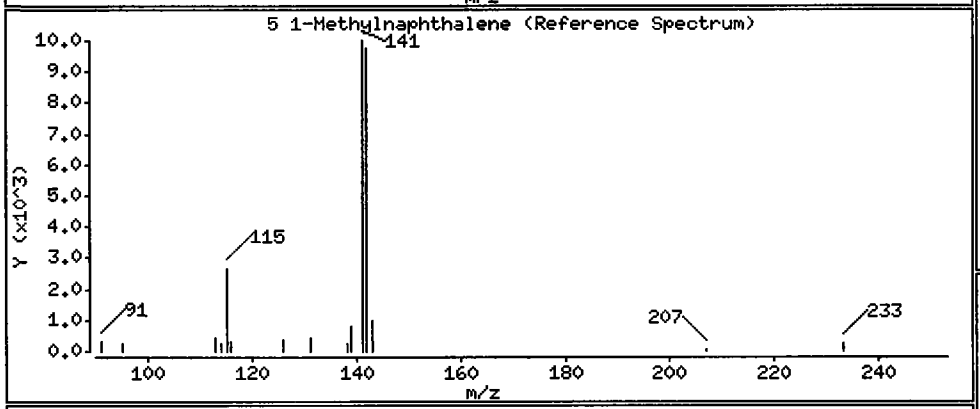
Column diameter: 0.25

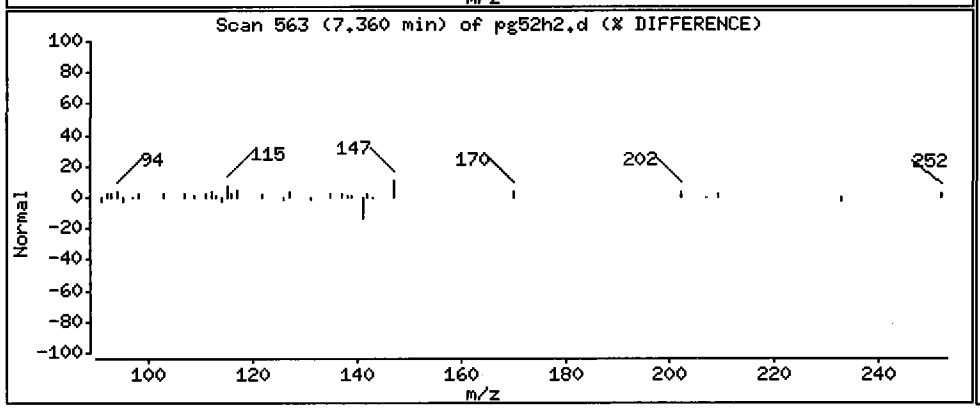
5 1-Methylnaphthalene

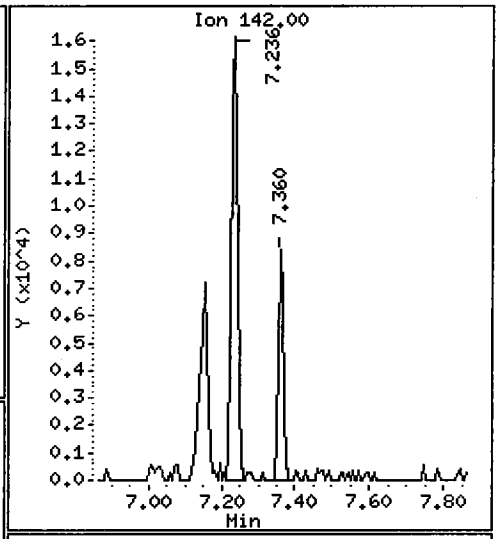
Concentration: 6.415 ug/kg

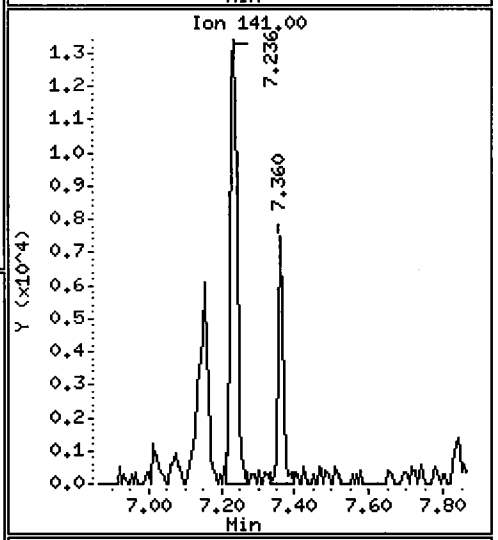


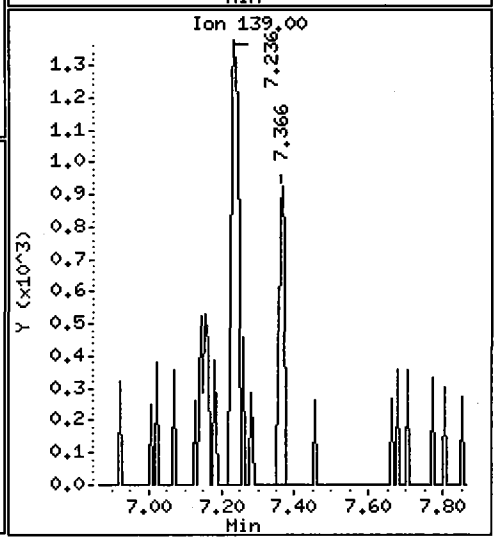












Data File: /chem3/nt1.i/20090718.b/pg52h2.d

Date : 18-JUL-2009 12:37

Client ID: AHA-01-1SE(0-3)

Instrument: nt1.i

Sample Info: PG52H,2

Volume Injected (uL): 1.0

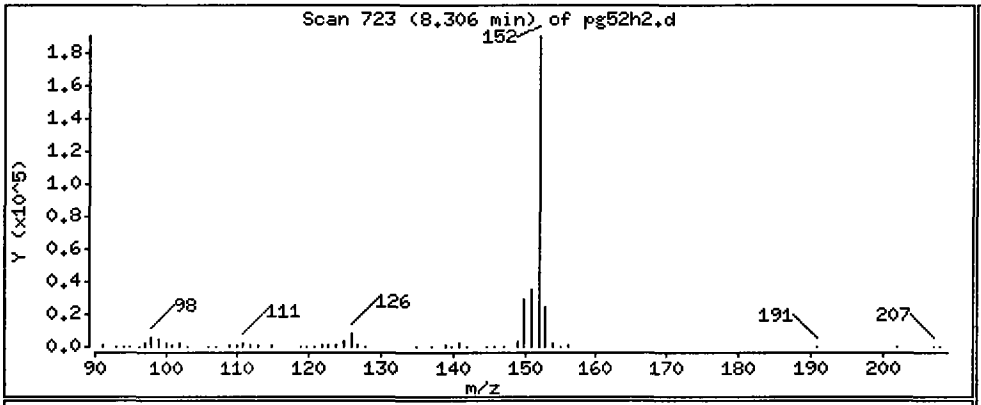
Operator: VTS

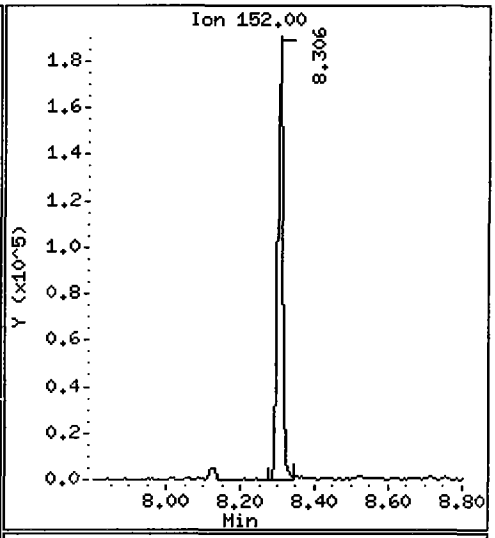
Column phase: ZB-5msi

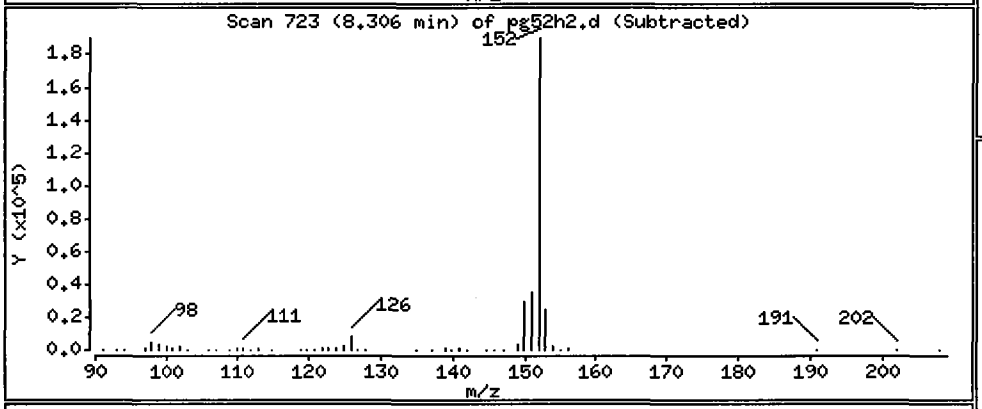
Column diameter: 0.25

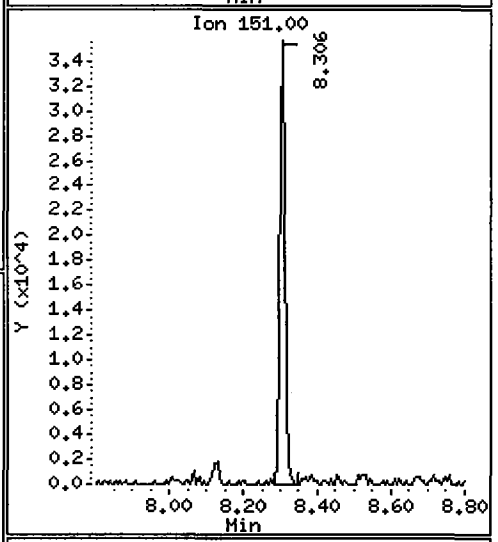
7 Acenaphthylene

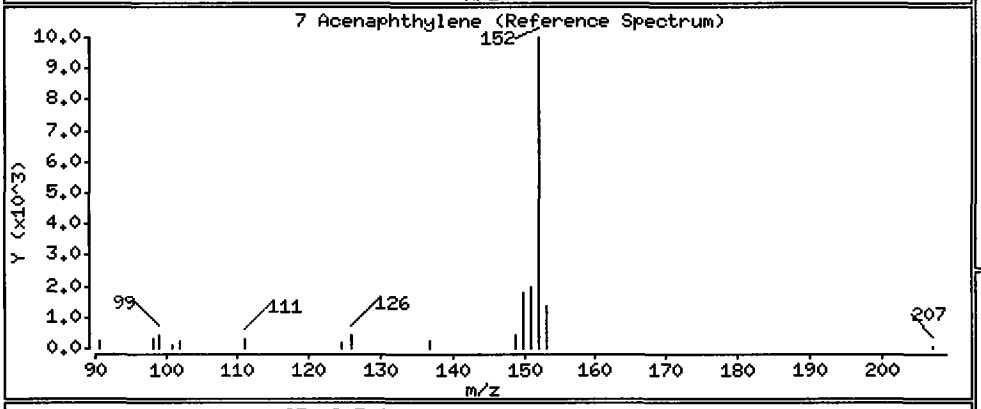
Concentration: 99.13 ug/kg

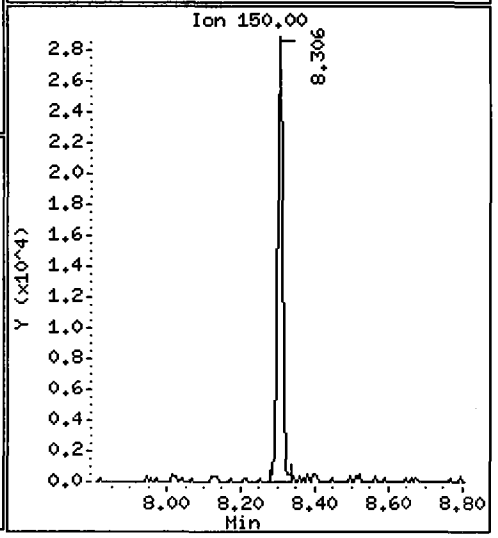


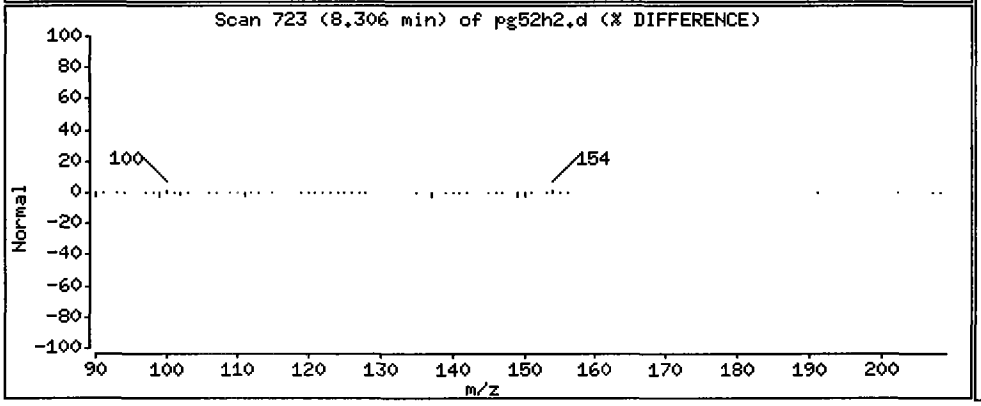












Data File: /chem3/nt1.i/20090718.b/pg52h2.d

Date : 18-JUL-2009 12:37

Client ID: AHA-01-1SE(0-3)

Instrument: nt1.i

Sample Info: PG52H,2

Volume Injected (uL): 1.0

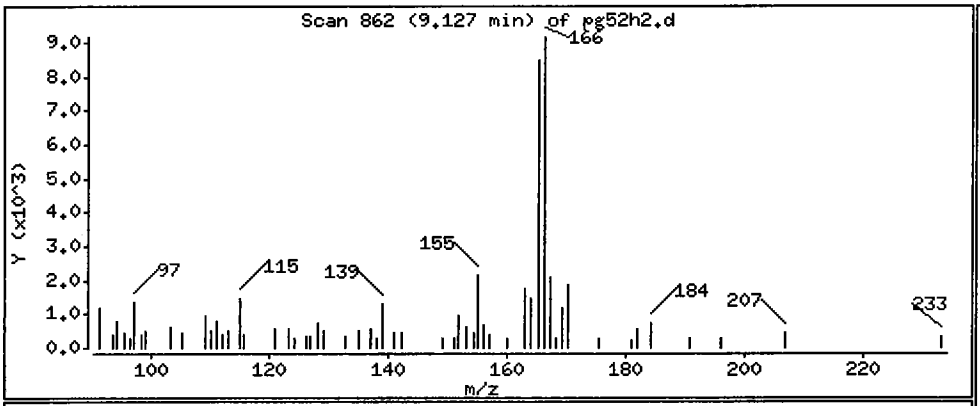
Operator: VTS

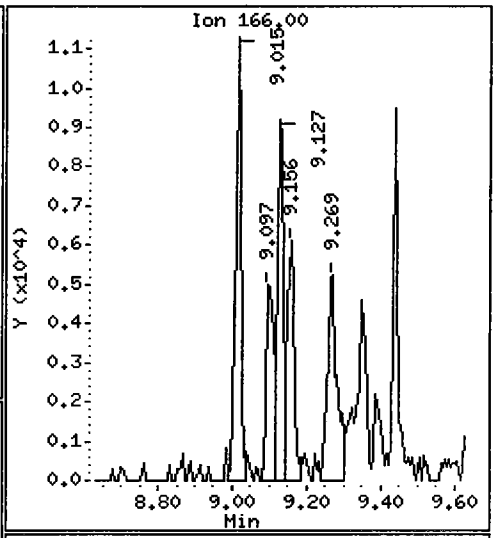
Column phase: ZB-5msi

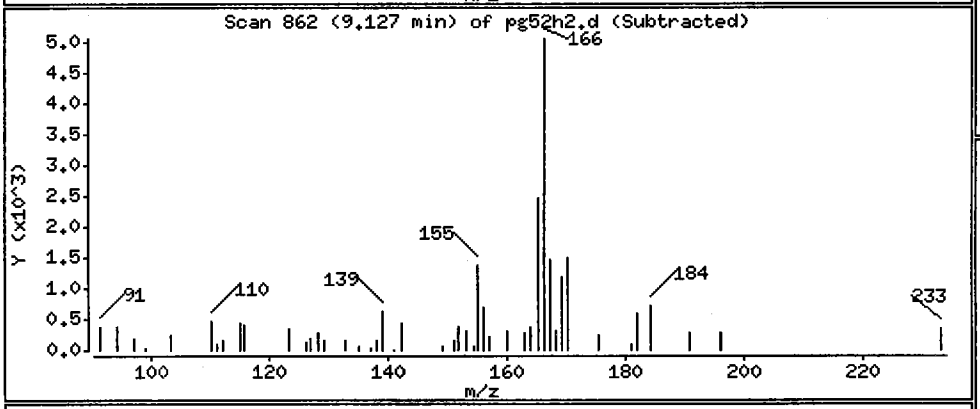
Column diameter: 0.25

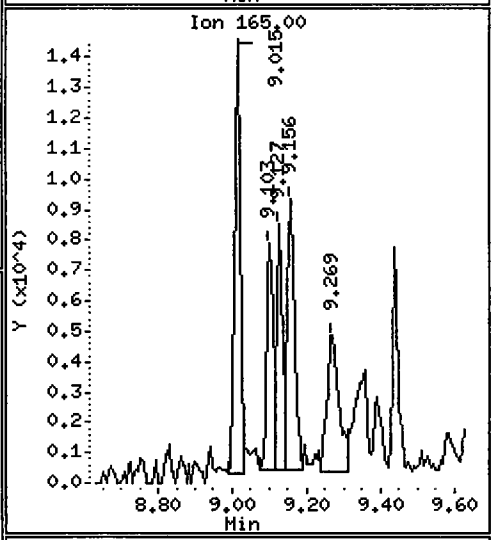
11 Fluorene

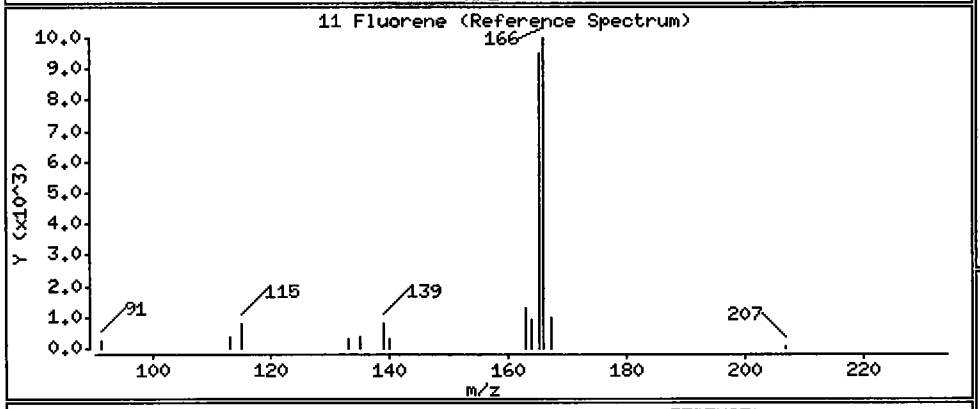
Concentration: 8.968 ug/kg

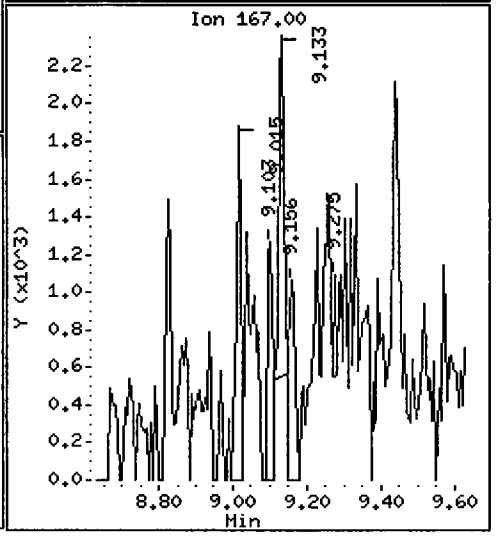


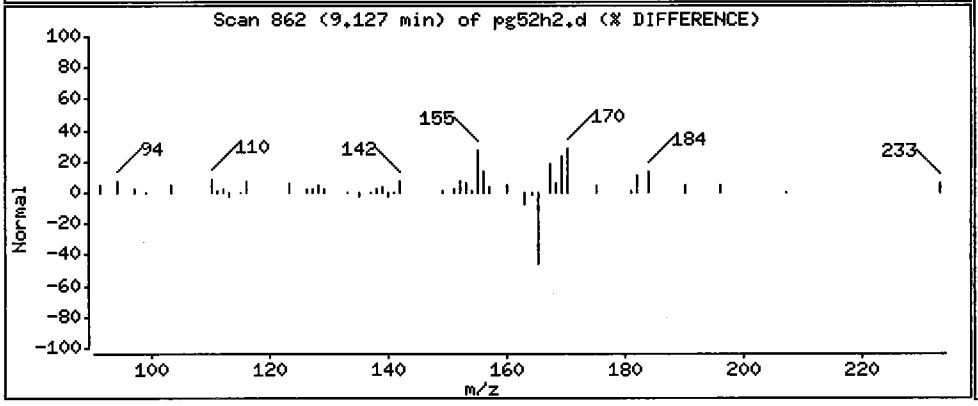












Data File: /chem3/nt1.i/20090718.b/pg52h2.d

Date : 18-JUL-2009 12:37

Client ID: AHA-01-1SE(0-3)

Instrument: nt1.i

Sample Info: PG52H,2

Volume Injected (uL): 1.0

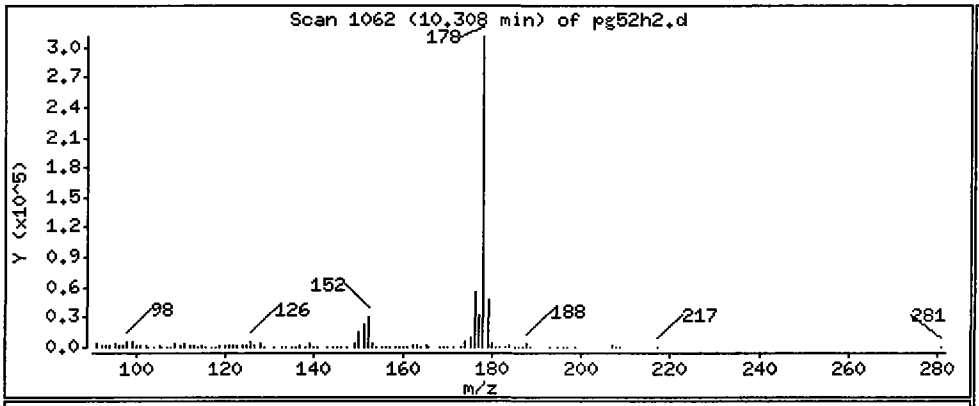
Operator: VTS

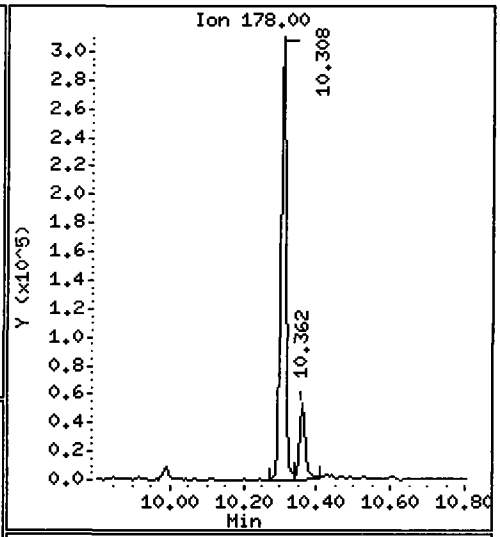
Column phase: ZB-5msi

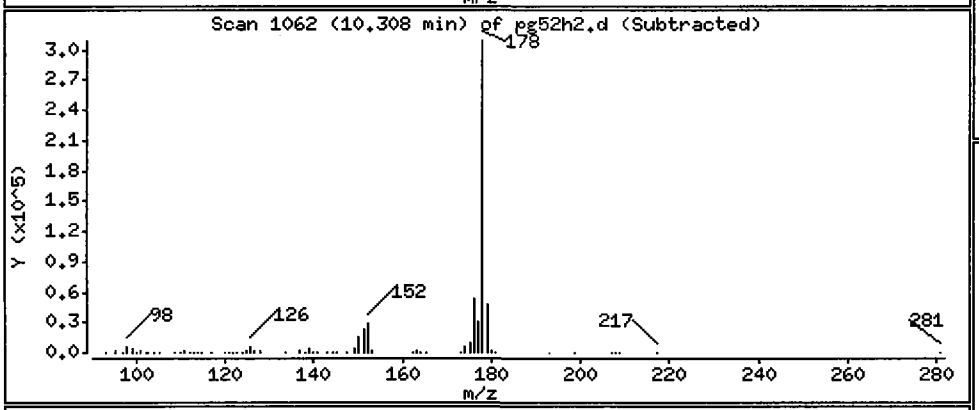
Column diameter: 0.25

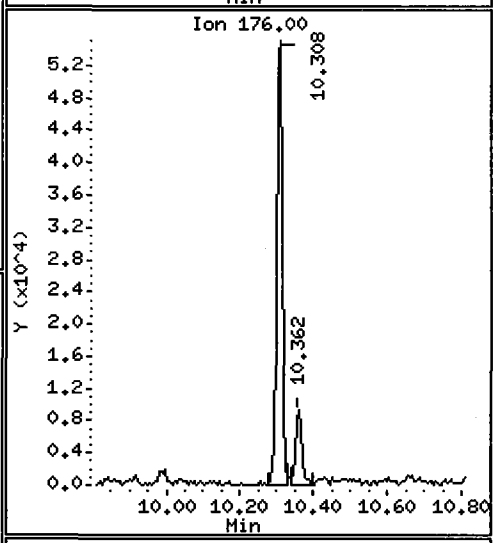
16 Phenanthrene

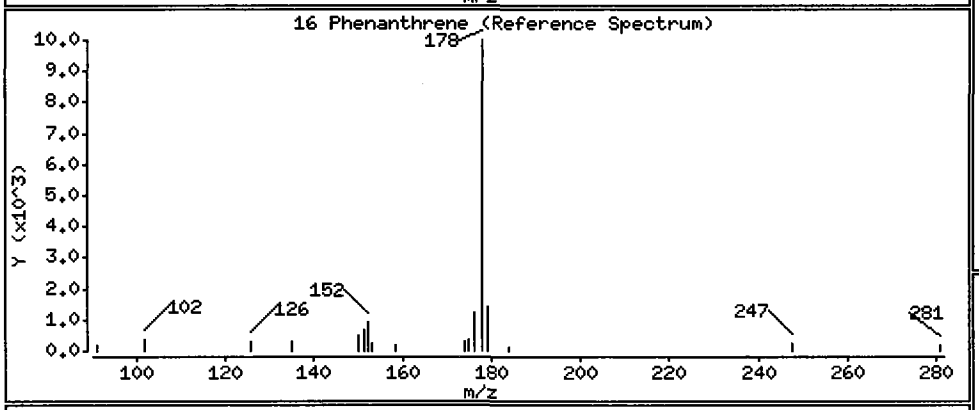
Concentration: 181.7 ug/kg

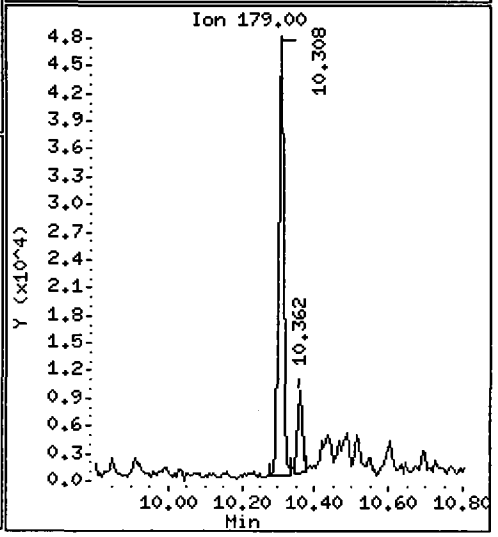


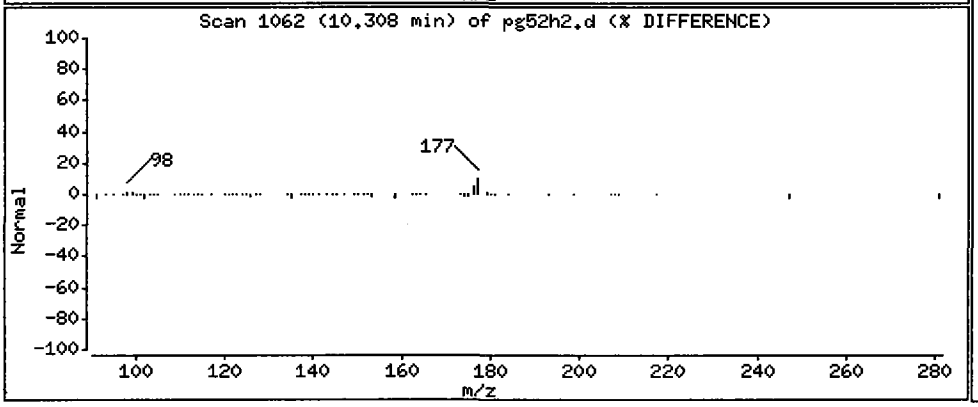












Data File: /chem3/nt1.i/20090718.b/pg52h2.d

Date : 18-JUL-2009 12:37

Client ID: AHA-01-1SE(0-3)

Instrument: nt1.i

Sample Info: PG52H,2

Volume Injected (uL): 1.0

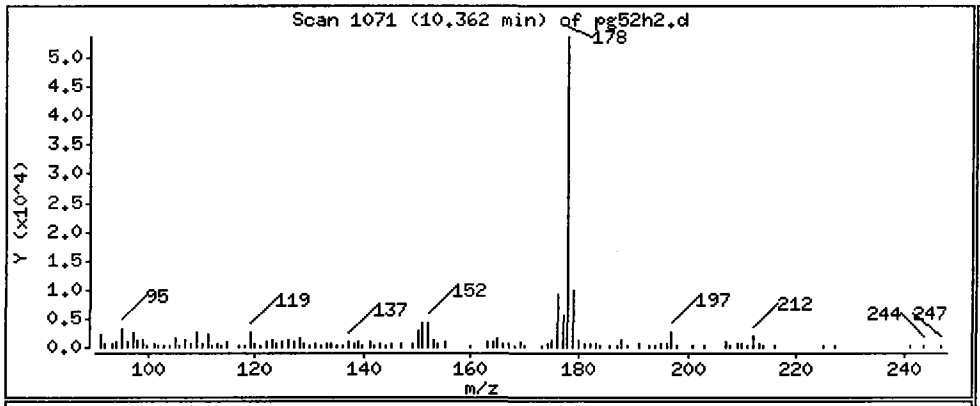
Operator: VTS

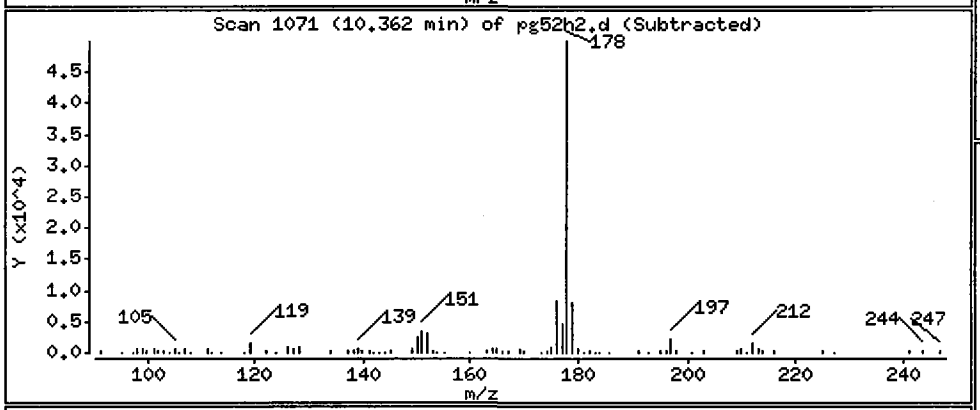
Column phase: ZB-5msi

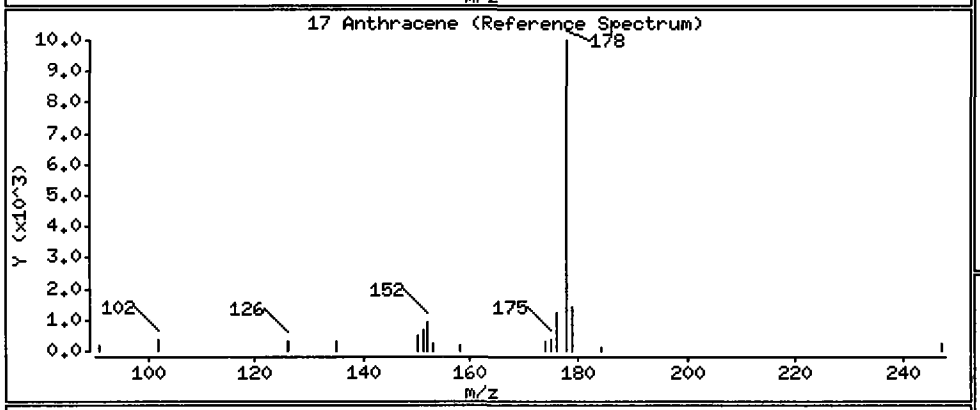
Column diameter: 0.25

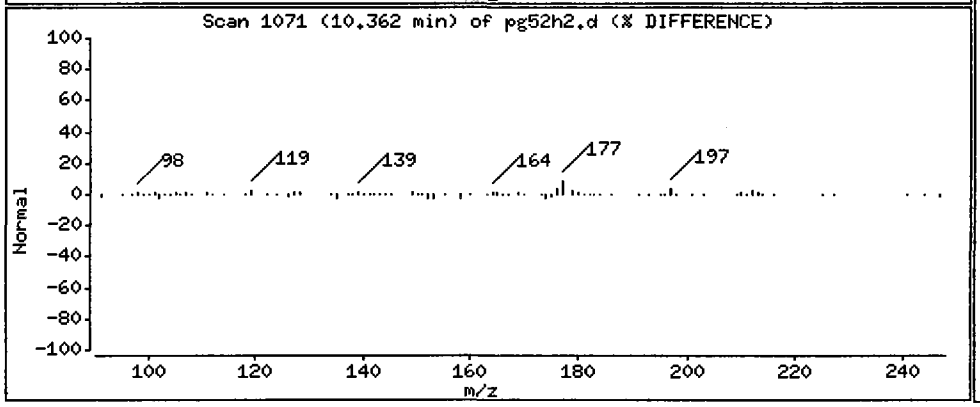
17 Anthracene

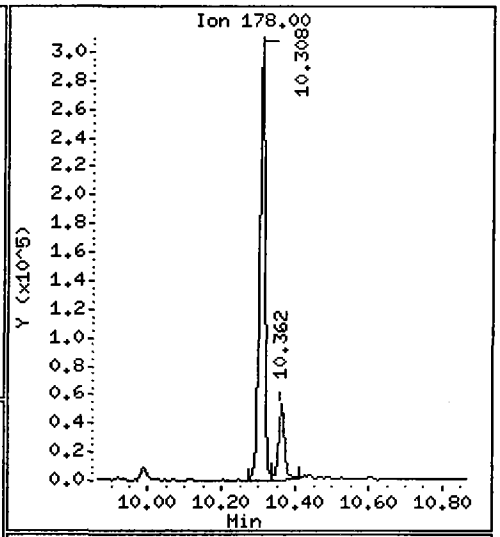
Concentration: 34.59 ug/kg

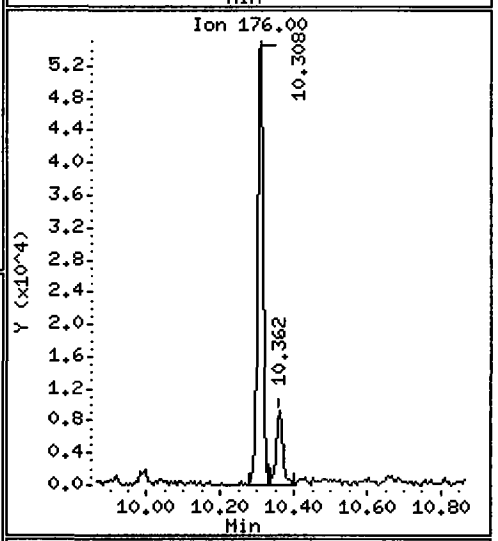


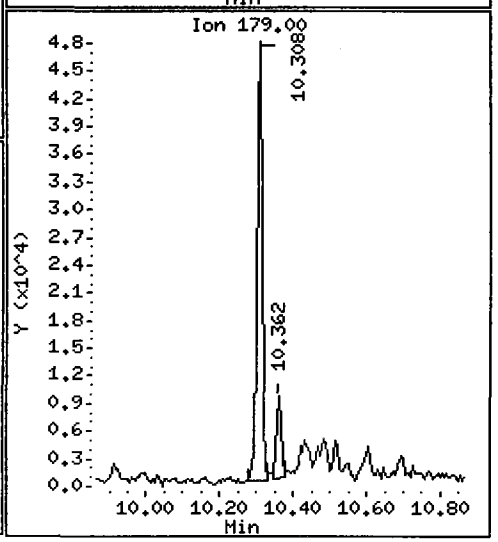












Data File: /chem3/nt1.i/20090718.b/pg52h2.d

Date : 18-JUL-2009 12:37

Client ID: AHA-01-1SE(0-3)

Instrument: nt1.i

Sample Info: PG52H,2

Volume Injected (uL): 1.0

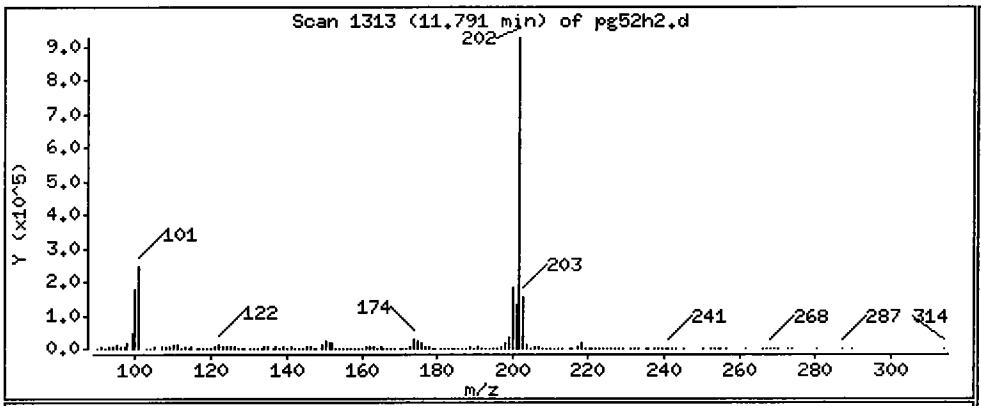
Operator: VTS

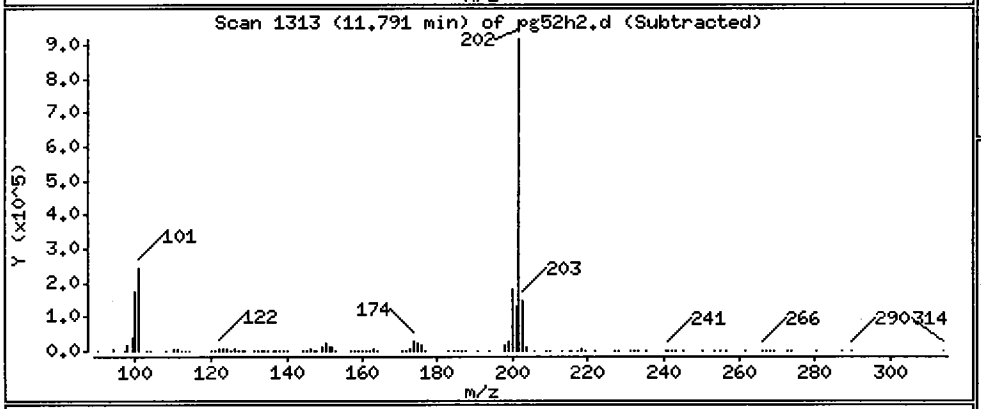
Column phase: ZB-5msi

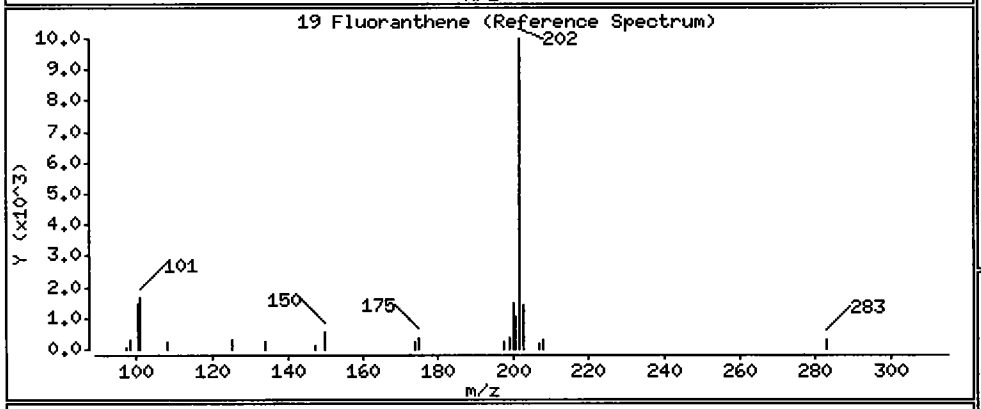
Column diameter: 0.25

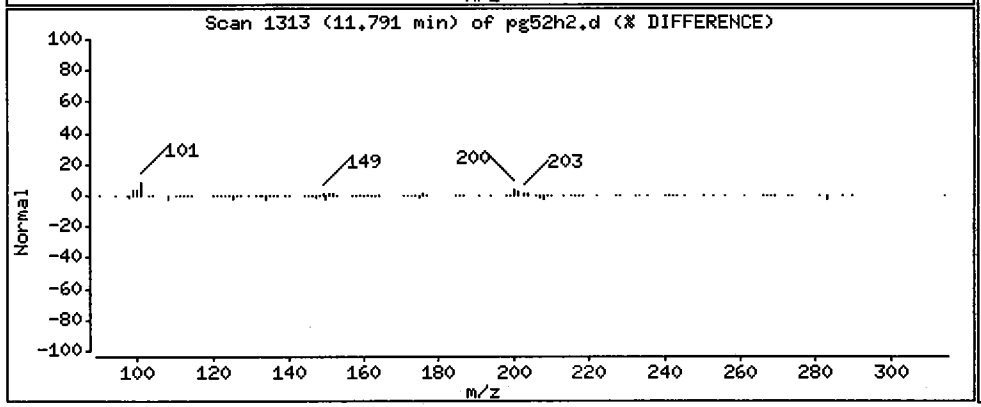
19 Fluoranthene

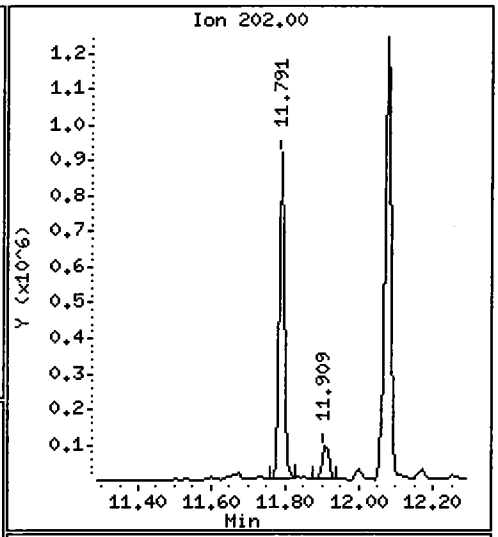
Concentration: 570.5 ug/kg

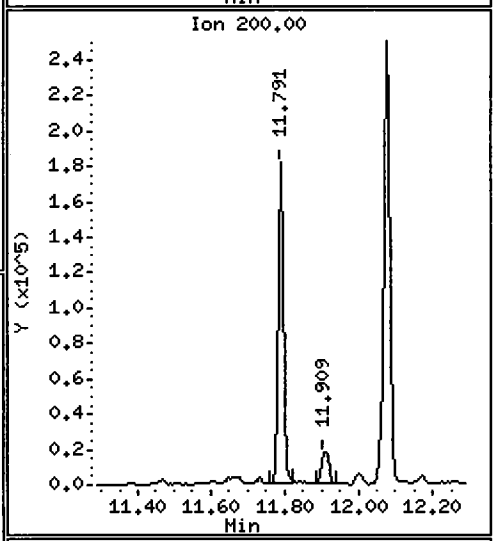


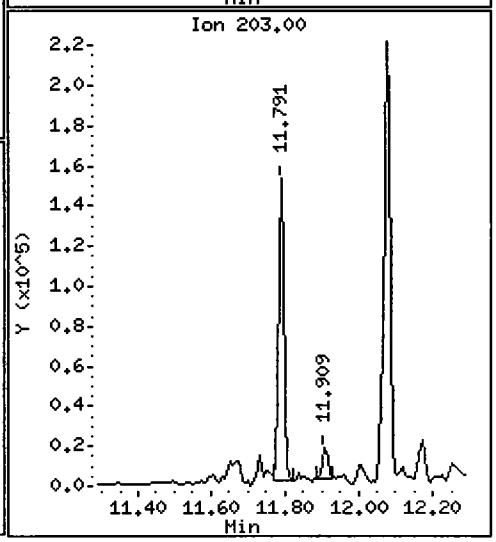












Data File: /chem3/nt1.i/20090718.b/pg52h2.d

Date : 18-JUL-2009 12:37

Client ID: AHA-01-1SE(0-3)

Instrument: nt1.i

Sample Info: PG52H,2

Volume Injected (uL): 1.0

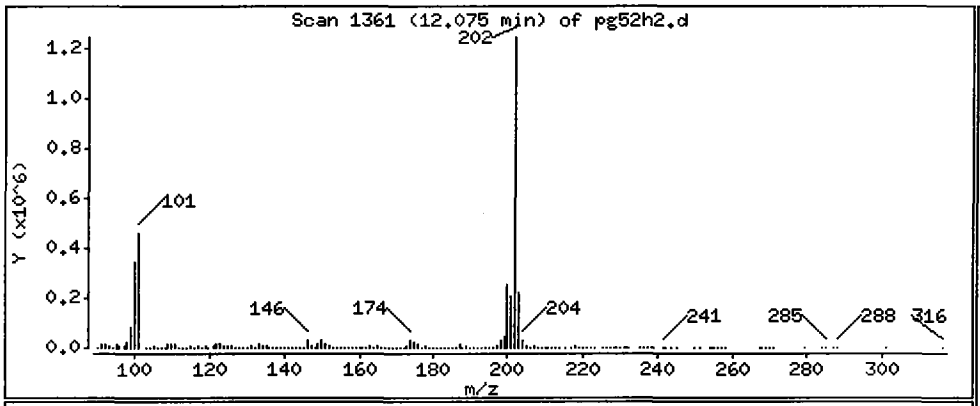
Operator: VTS

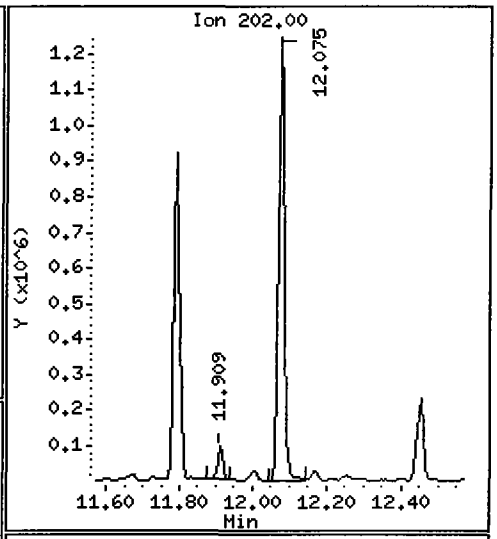
Column phase: ZB-5msi

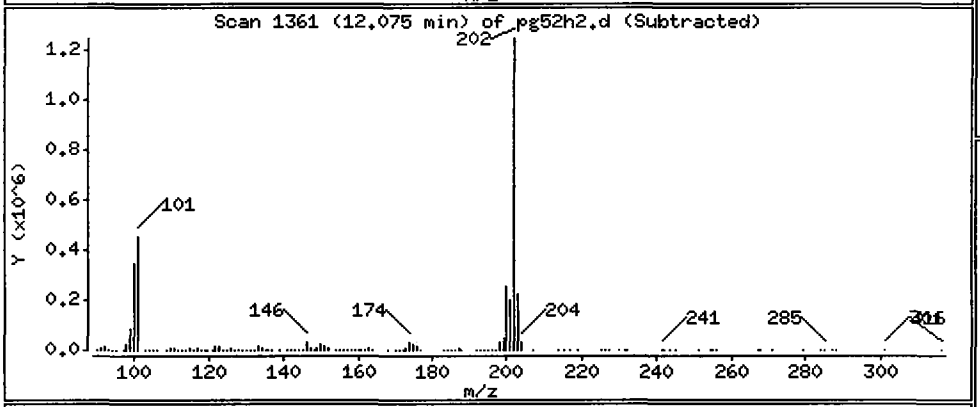
Column diameter: 0.25

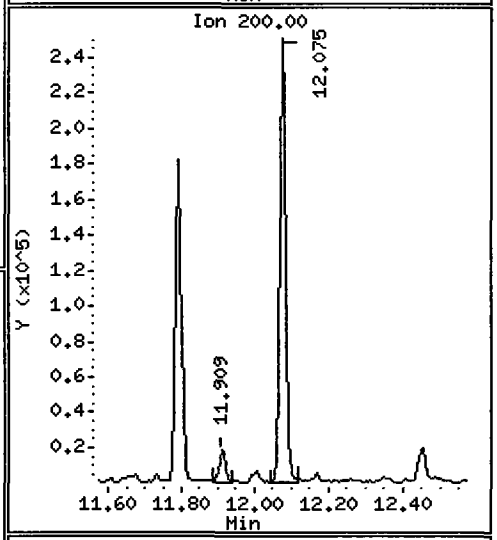
20 Pyrene

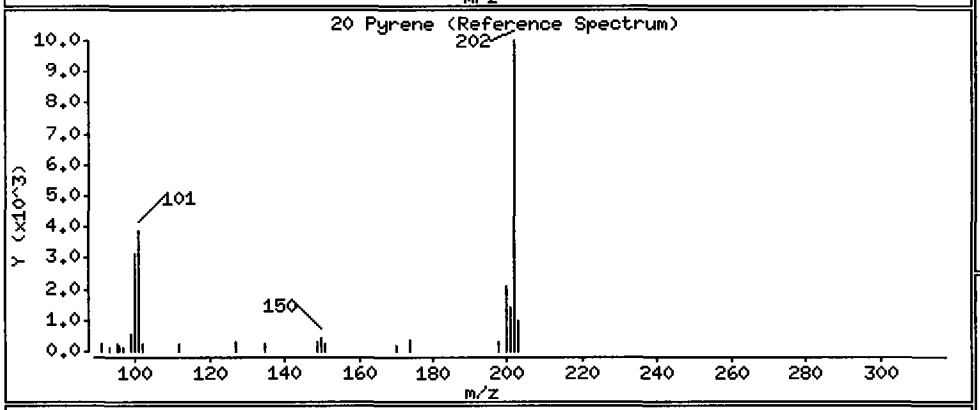
Concentration: 734.2 ug/kg

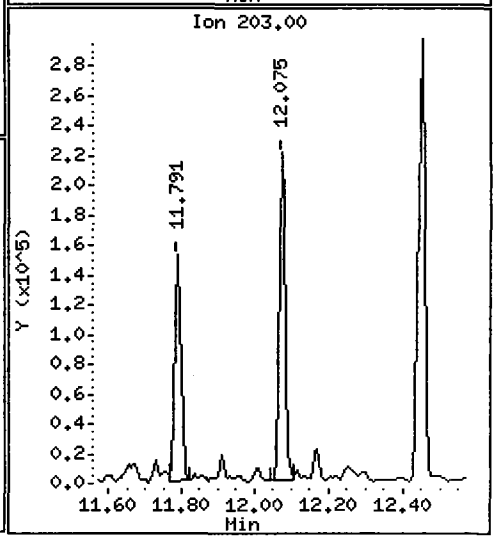


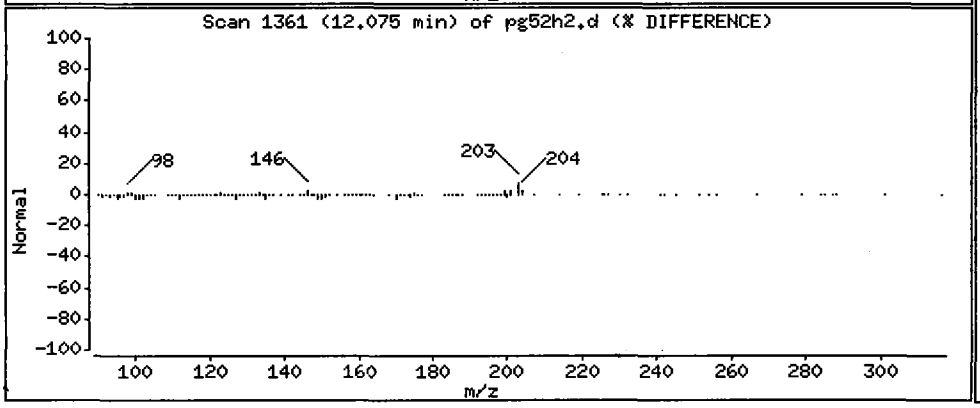












Data File: /chem3/nt1.i/20090718.b/pg52h2.d

Date : 18-JUL-2009 12:37

Client ID: AHA-01-1SE(0-3)

Instrument: nt1.i

Sample Info: PG52H,2

Volume Injected (uL): 1.0

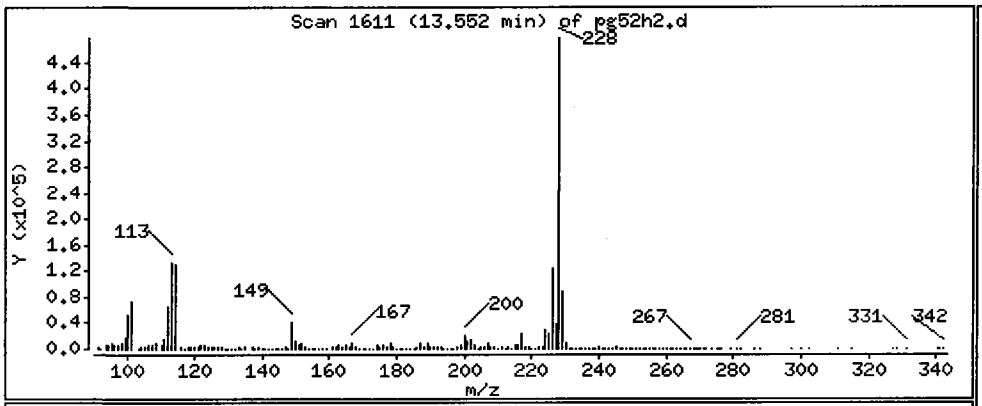
Operator: VTS

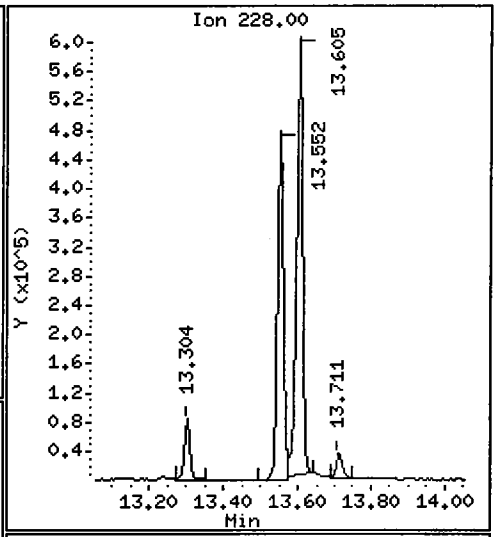
Column phase: ZB-5msi

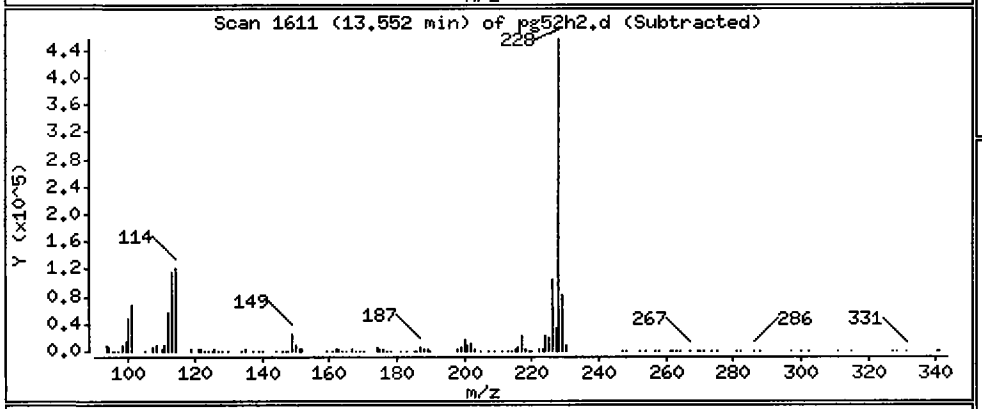
Column diameter: 0.25

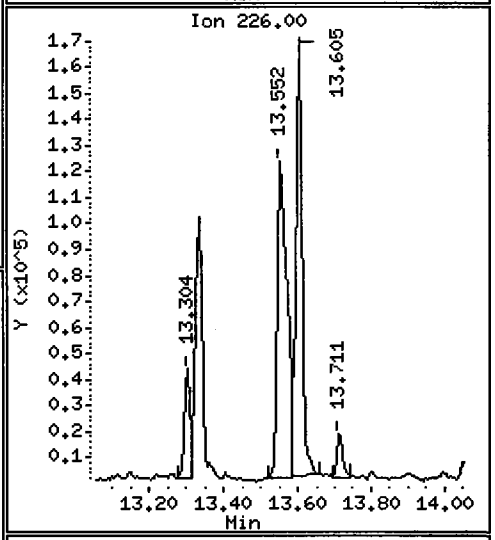
22 Benzo(a)anthracene

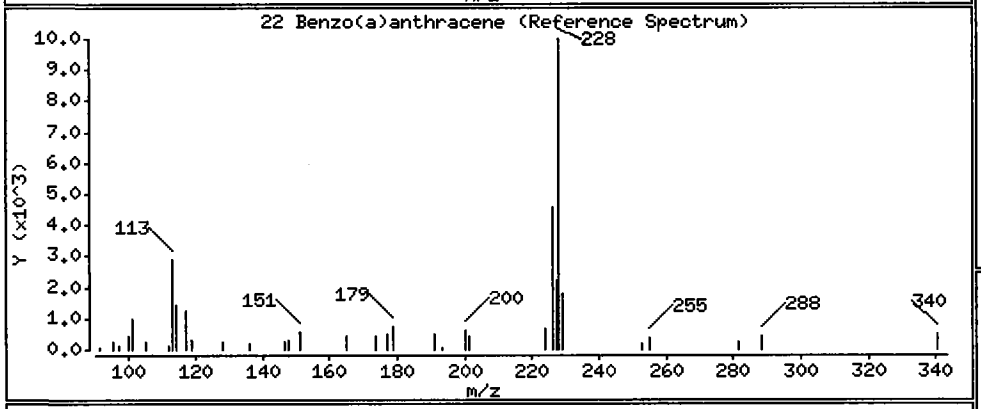
Concentration: 406.6 ug/kg

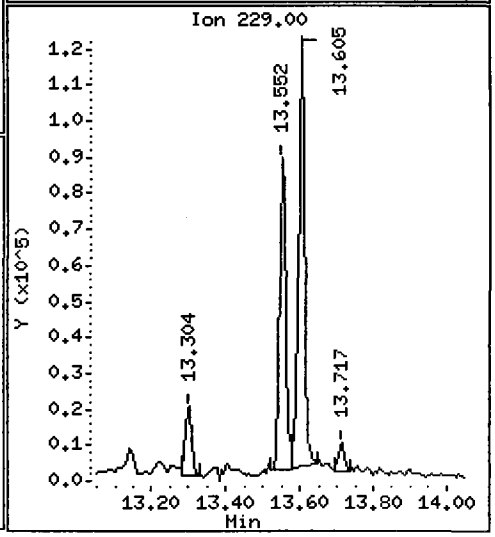


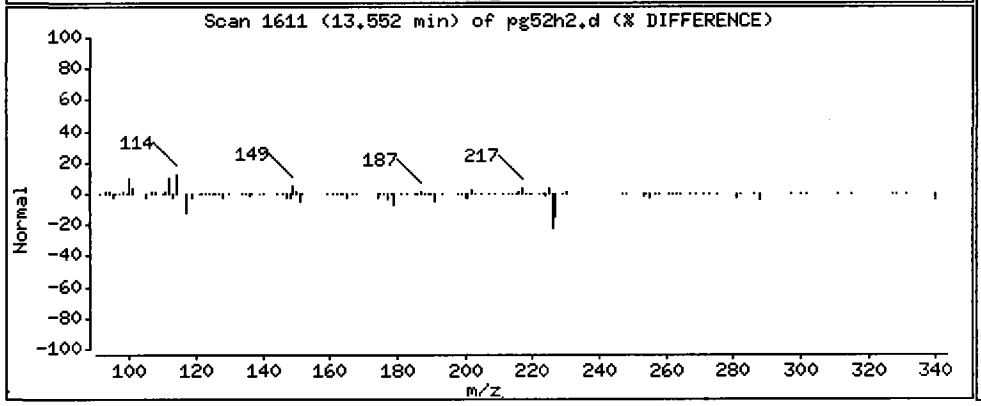












Data File: /chem3/nt1.i/20090718.b/pg52h2.d

Date : 18-JUL-2009 12:37

Client ID: AHA-01-1SE(0-3)

Instrument: nt1.i

Sample Info: PG52H,2

Volume Injected (uL): 1.0

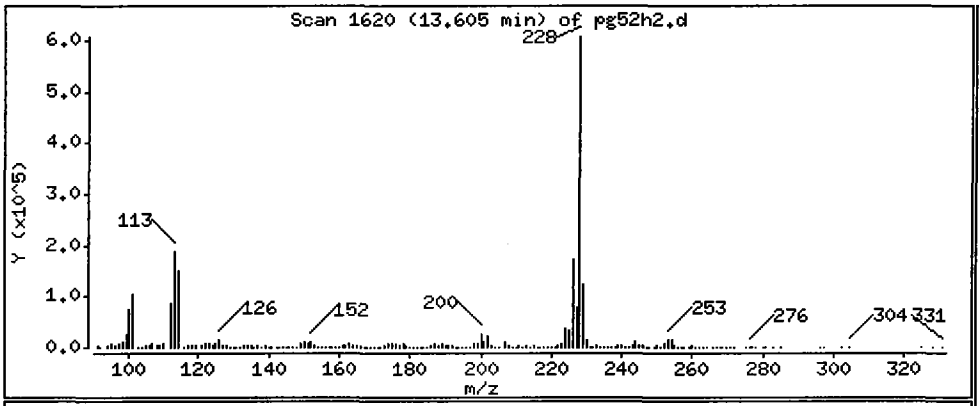
Operator: VTS

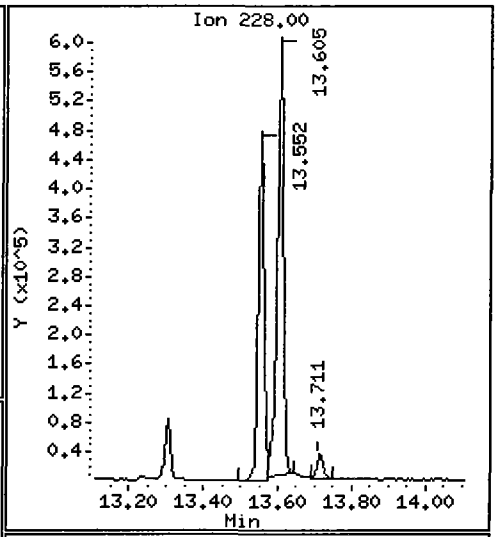
Column phase: ZB-5msi

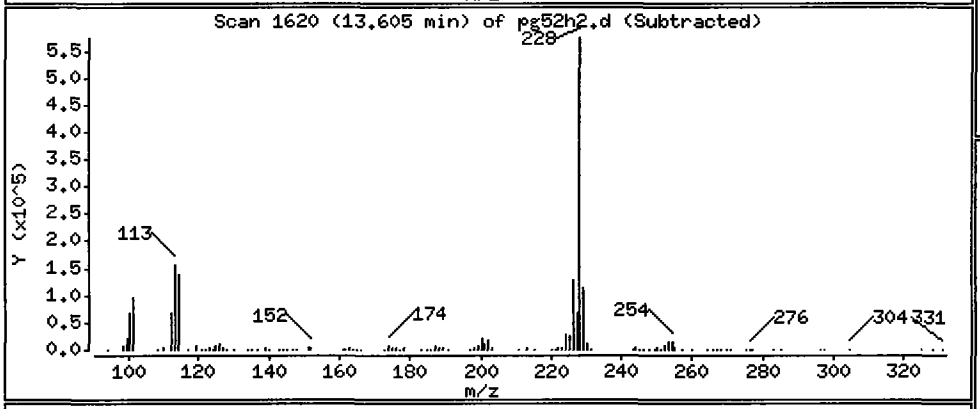
Column diameter: 0.25

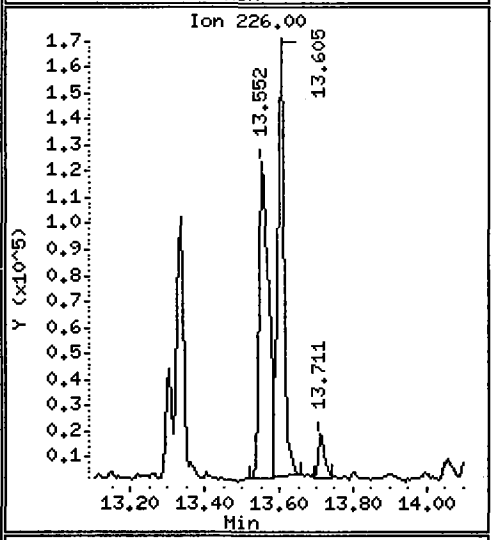
24 Chrysene

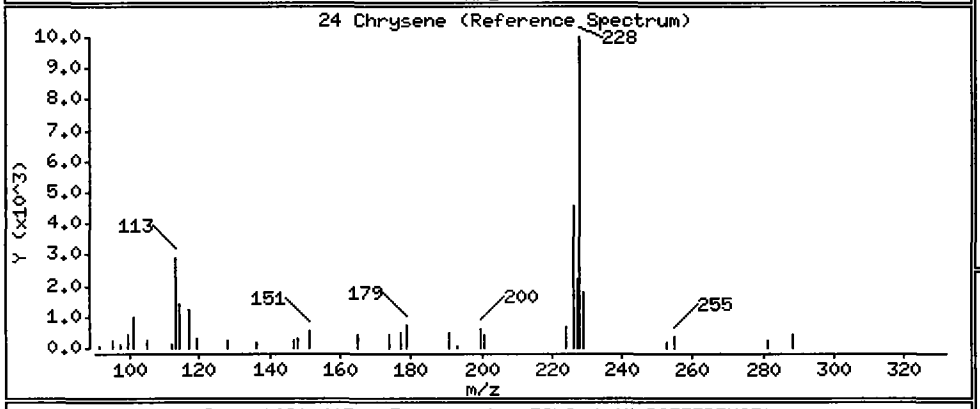
Concentration: 489.4 ug/kg

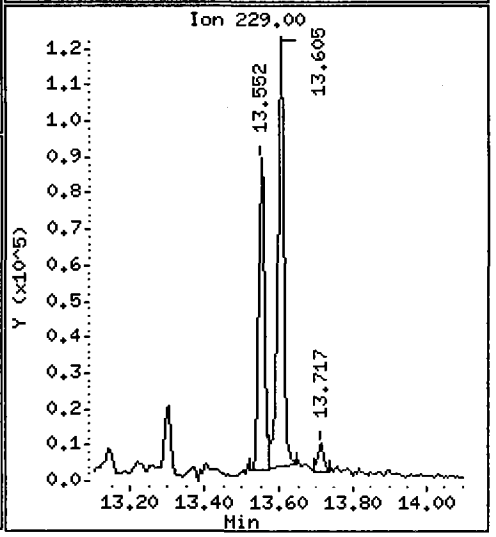


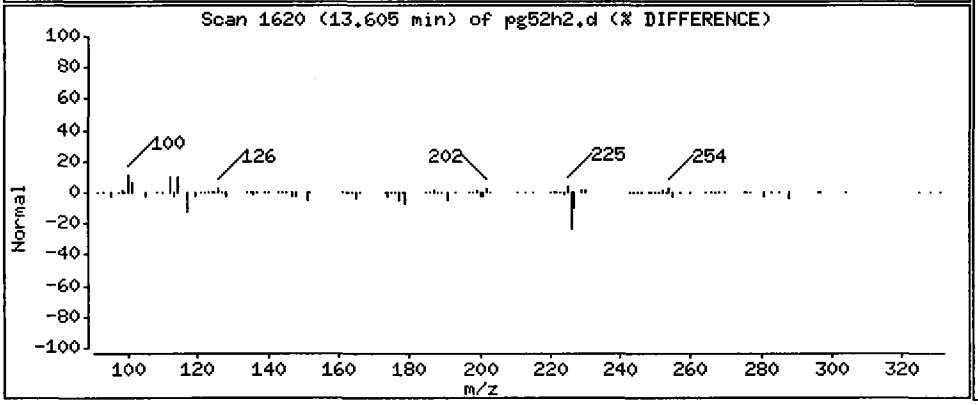












Data File: /chem3/nt1.i/20090718.b/pg52h2.d

Date : 18-JUL-2009 12:37

Client ID: AHA-01-1SE(0-3)

Instrument: nt1.i

Sample Info: PG52H,2

Volume Injected (uL): 1.0

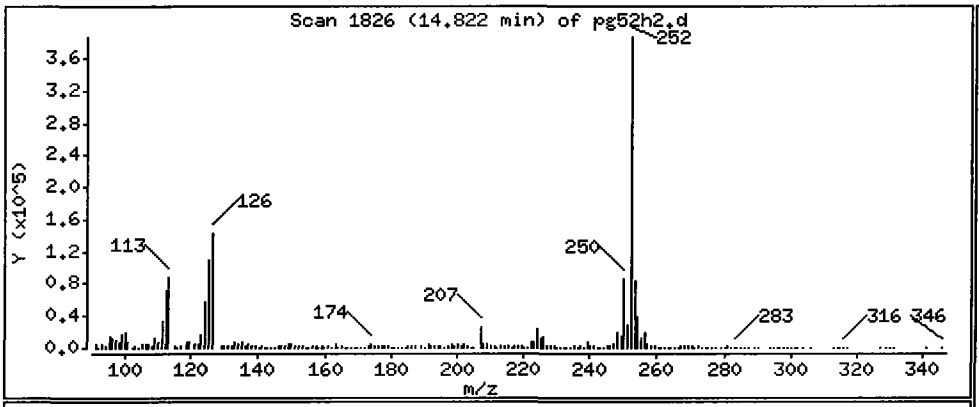
Operator: VTS

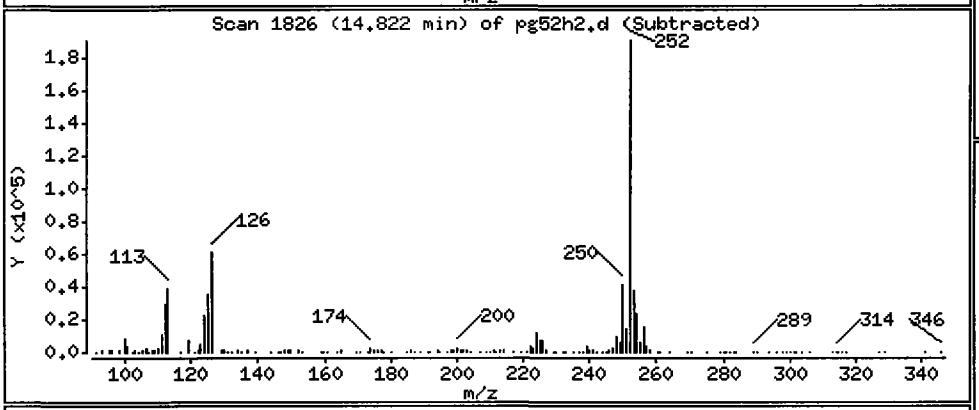
Column phase: ZB-5msi

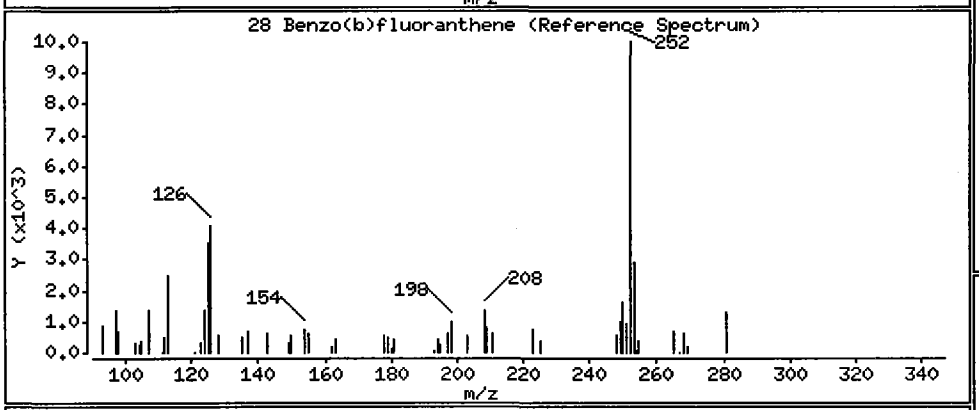
Column diameter: 0.25

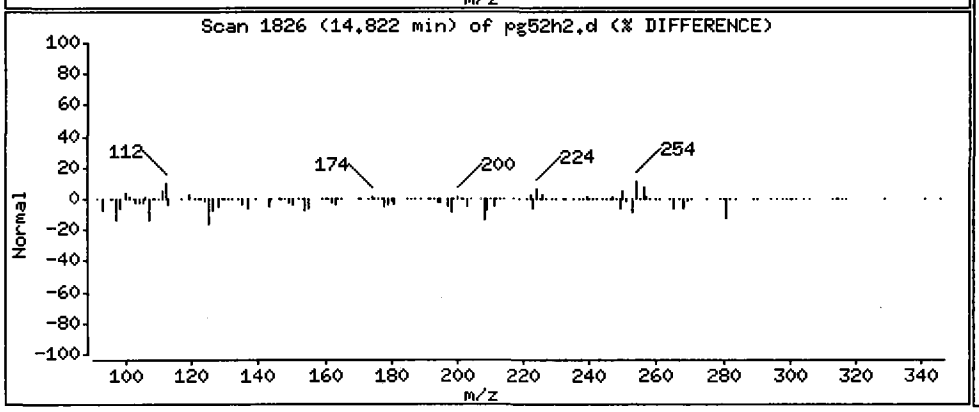
28 Benzo(b)fluoranthene

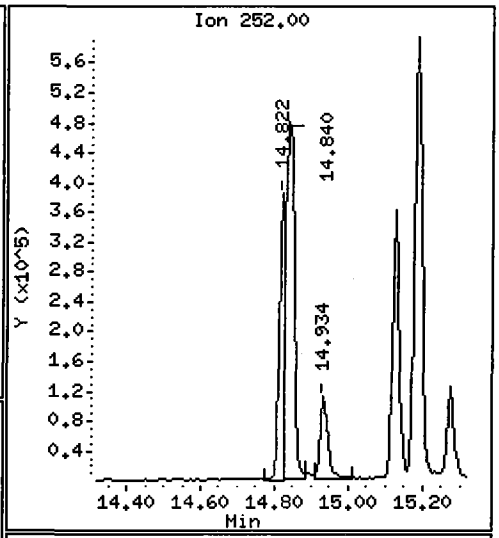
Concentration: 318.1 ug/kg

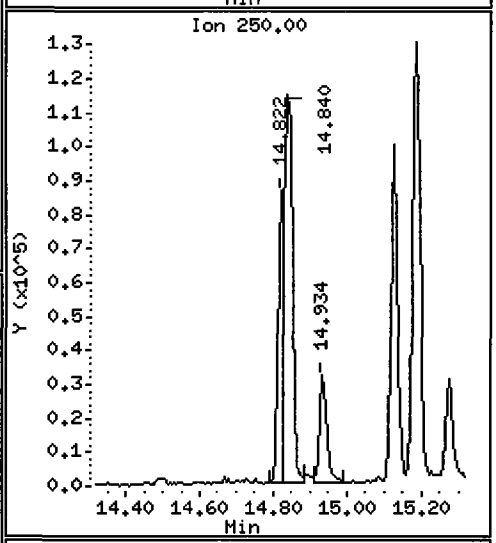


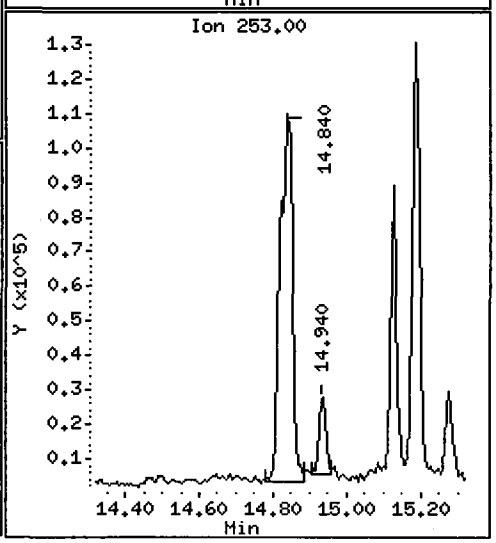












Data File: /chem3/nt1.i/20090718.b/pg52h2.d

Date : 18-JUL-2009 12:37

Client ID: AHA-01-1SE(0-3)

Instrument: nt1.i

Sample Info: PG52H,2

Volume Injected (uL): 1.0

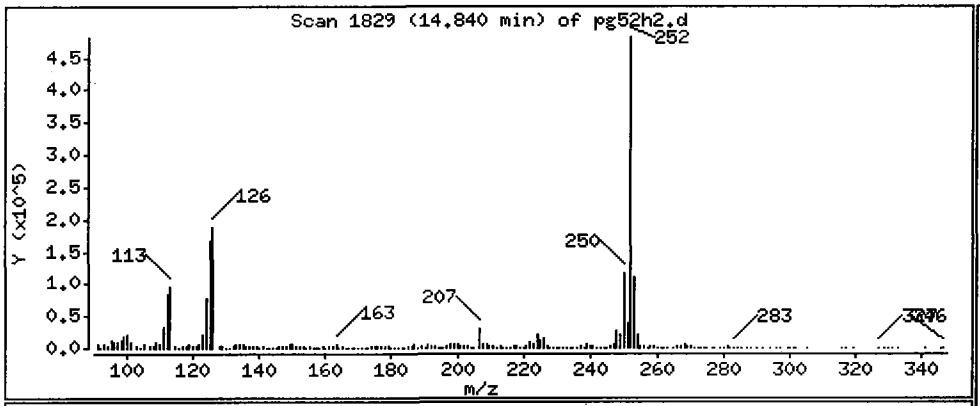
Operator: VTS

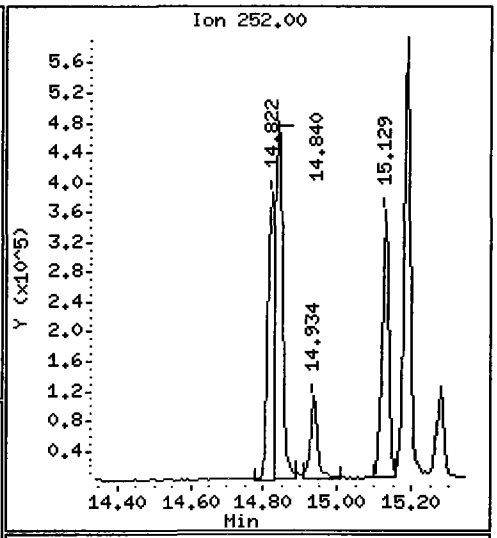
Column phase: ZB-5msi

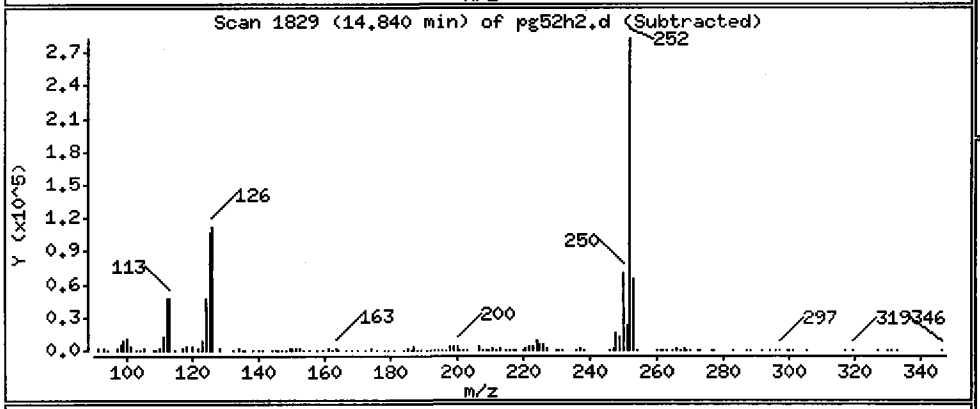
Column diameter: 0.25

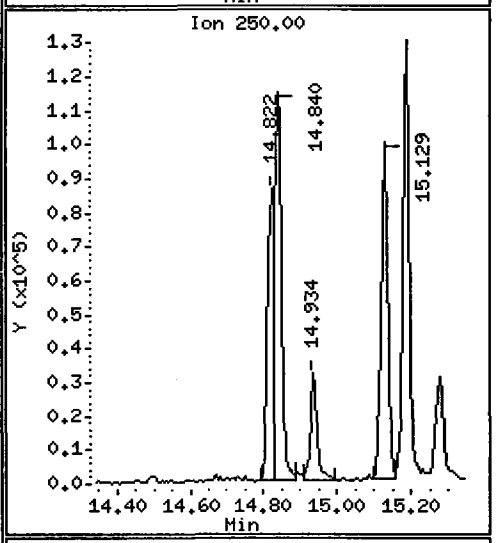
29 Benzo(k)fluoranthene

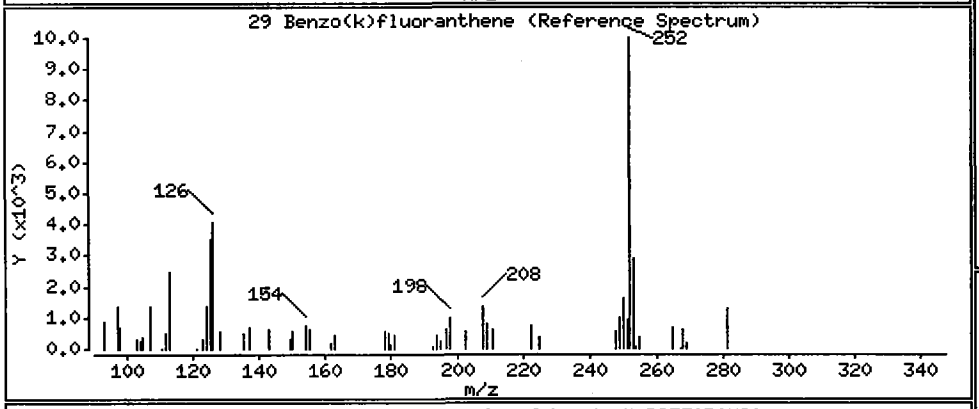
Concentration: 494.8 ug/kg

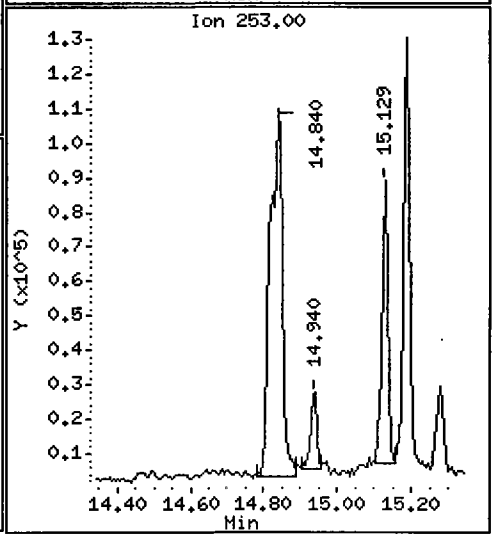


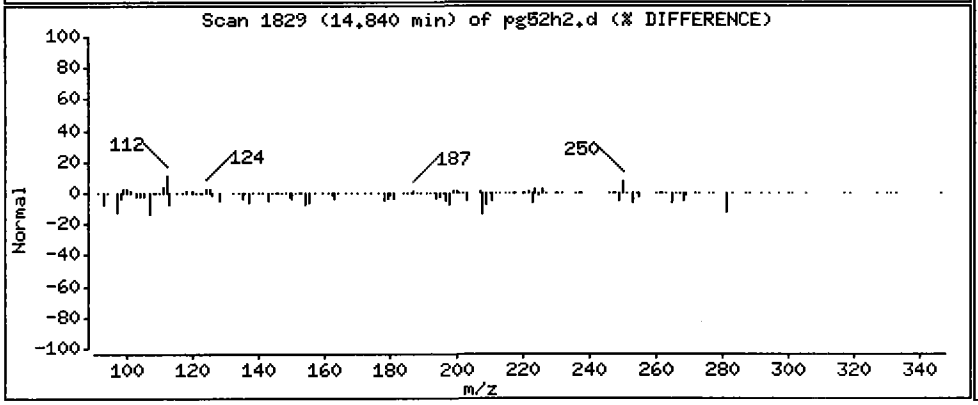












Data File: /chem3/nt1.i/20090718.b/pg52h2.d

Date : 18-JUL-2009 12:37

Client ID: AHA-01-1SE(0-3)

Instrument: nt1.i

Sample Info: PG52H,2

Volume Injected (uL): 1.0

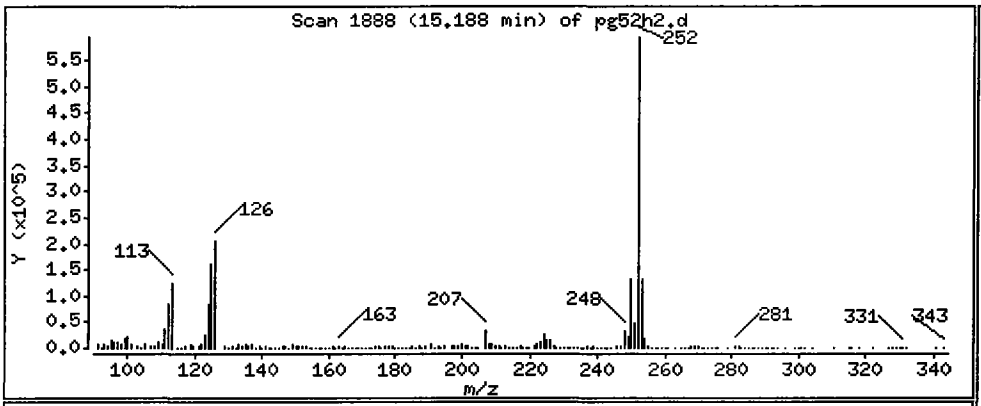
Operator: VTS

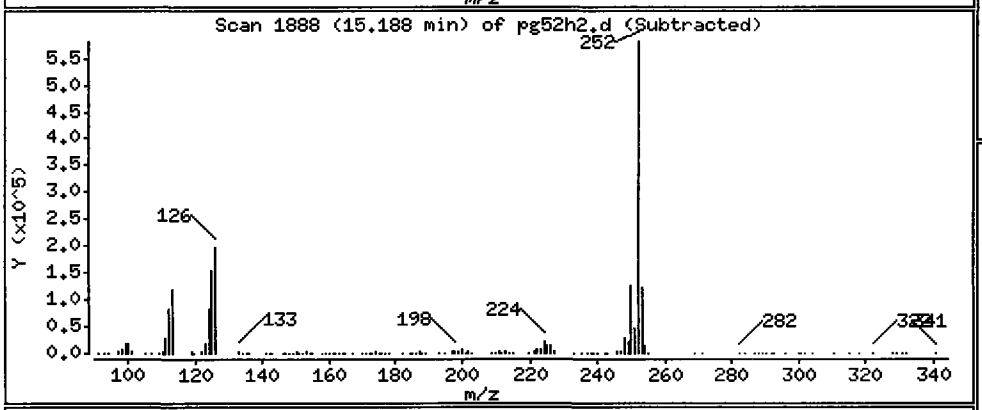
Column phase: ZB-5msi

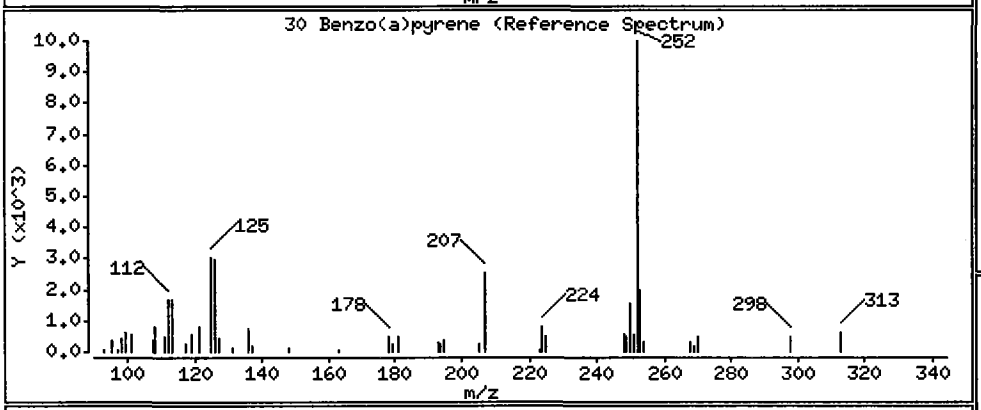
Column diameter: 0.25

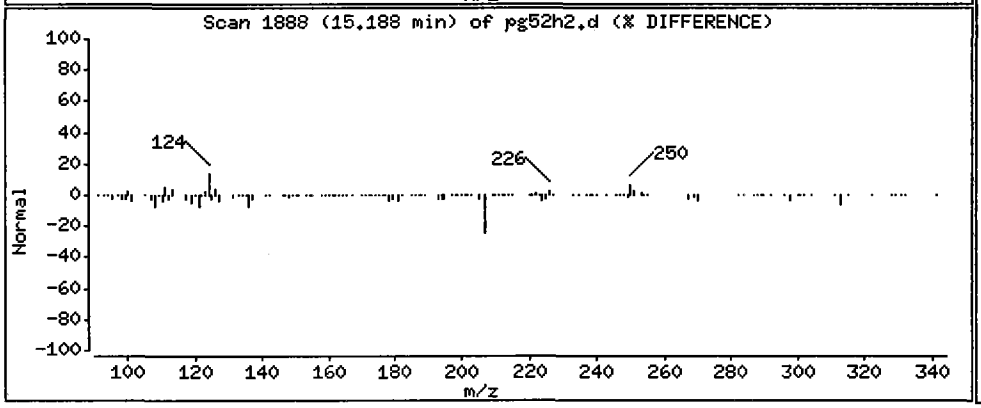
30 Benzo(a)pyrene

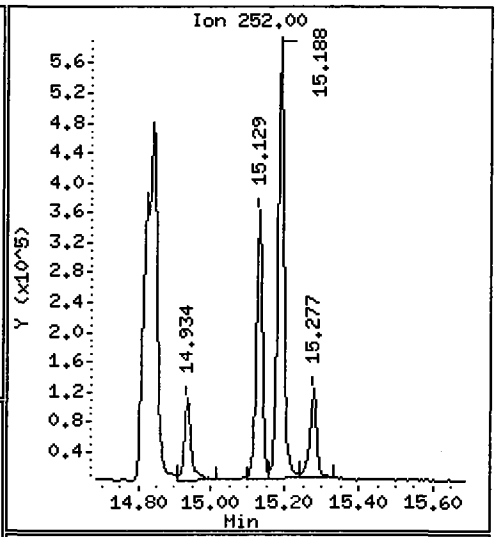
Concentration: 624.2 ug/kg

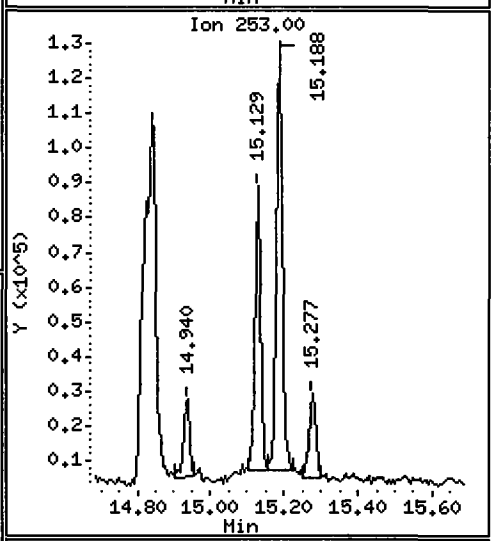


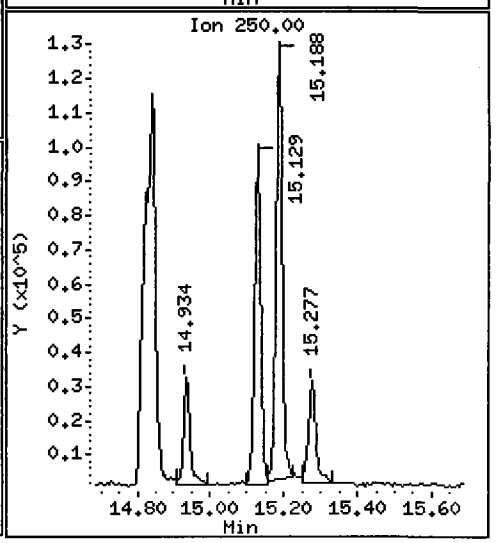












Data File: /chem3/nt1.i/20090718.b/pg52h2.d

Date : 18-JUL-2009 12:37

Client ID: AHA-01-1SE(0-3)

Instrument: nt1.i

Sample Info: PG52H,2

Volume Injected (uL): 1.0

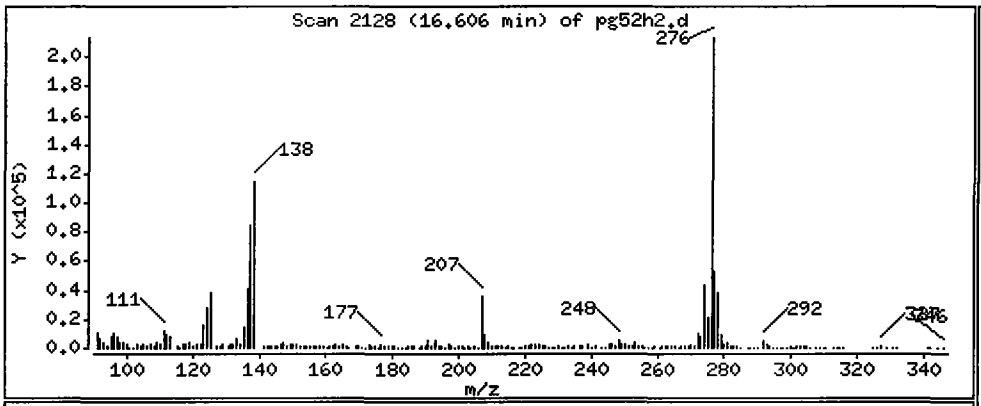
Operator: VTS

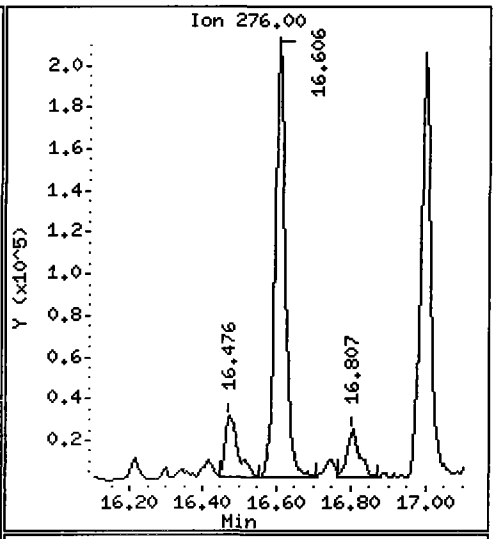
Column phase: ZB-5msi

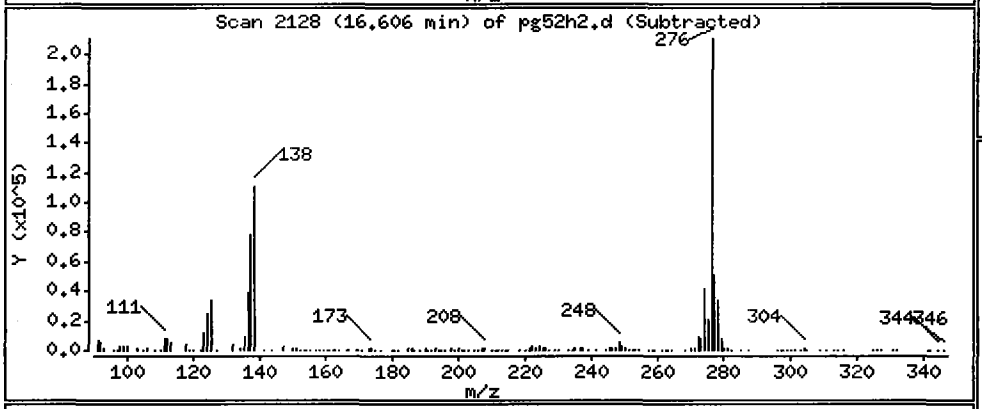
Column diameter: 0.25

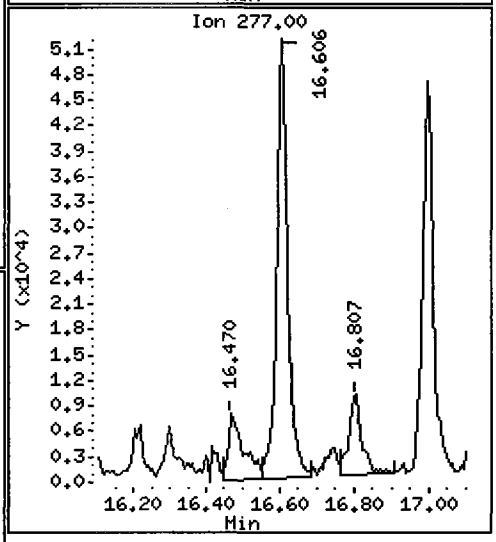
33 Indeno(1,2,3-cd)pyrene

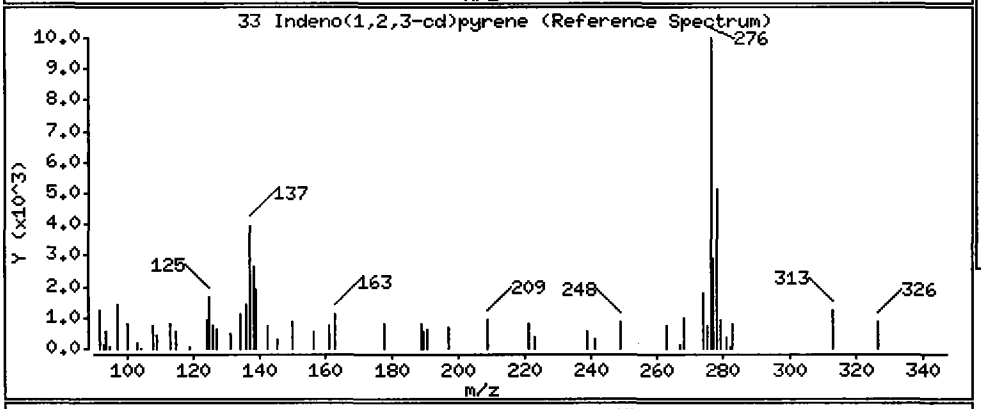
Concentration: 341.4 ug/kg

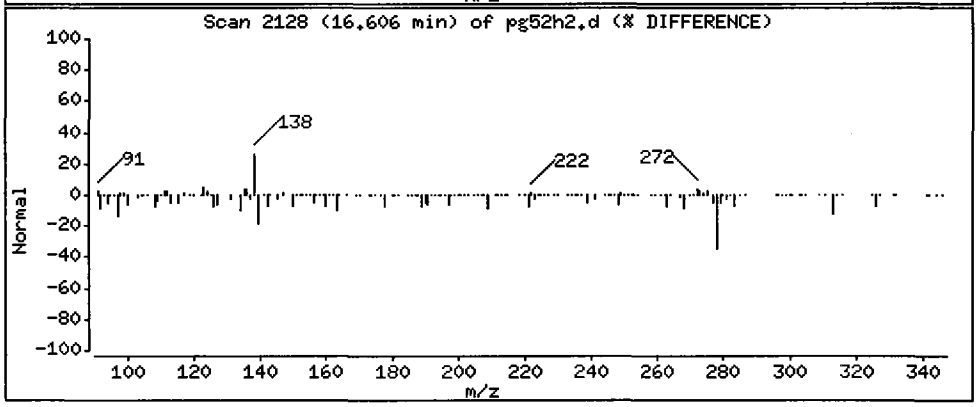












Data File: /chem3/nt1.i/20090718.b/pg52h2.d

Date : 18-JUL-2009 12:37

Client ID: AHA-01-1SE(0-3)

Instrument: nt1.i

Sample Info: PG52H,2

Volume Injected (uL): 1.0

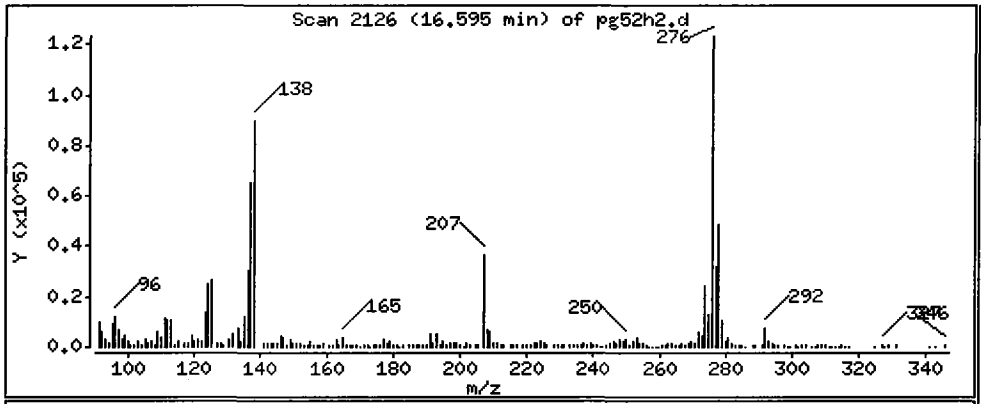
Operator: VTS

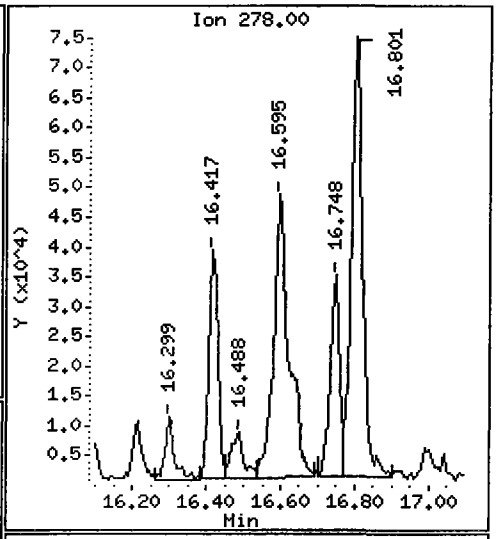
Column phase: ZB-5msi

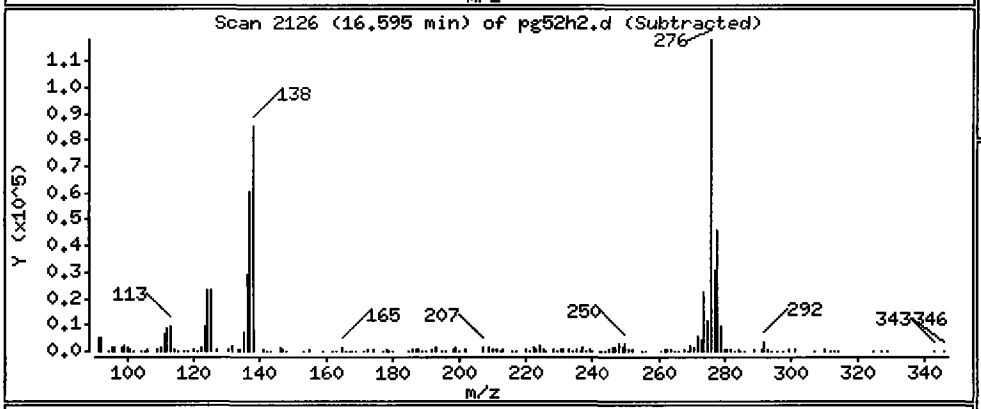
Column diameter: 0.25

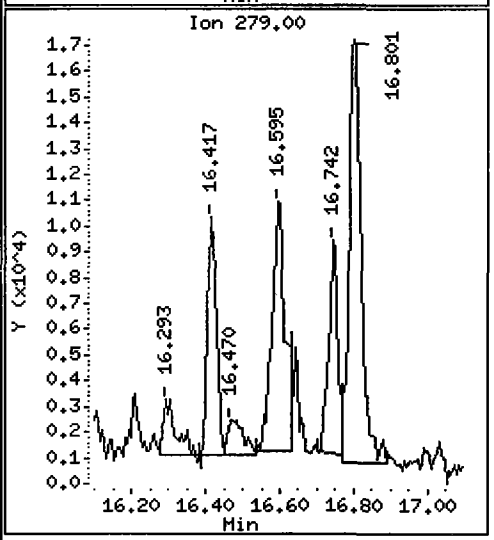
34 Dibenz(a,h)anthracene

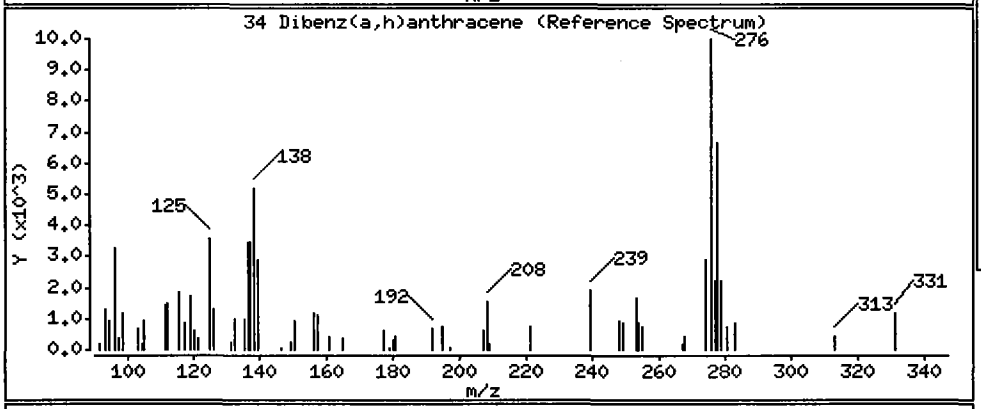
Concentration: 149.6 ug/kg

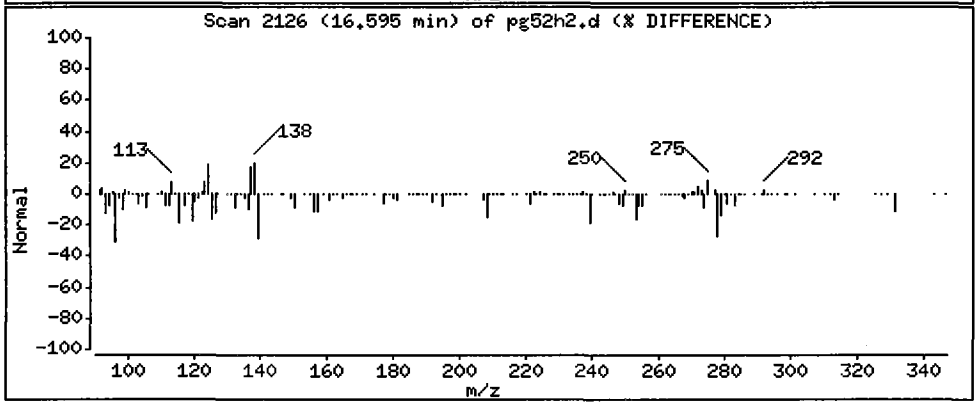












Data File: /chem3/nt1.i/20090718.b/pg52h2.d

Date : 18-JUL-2009 12:37

Client ID: AHA-01-1SE(0-3)

Instrument: nt1.i

Sample Info: PG52H,2

Volume Injected (uL): 1.0

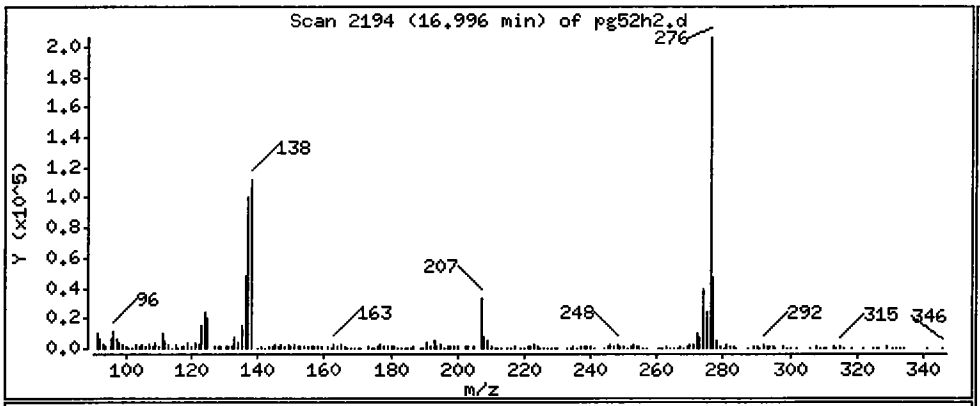
Operator: VTS

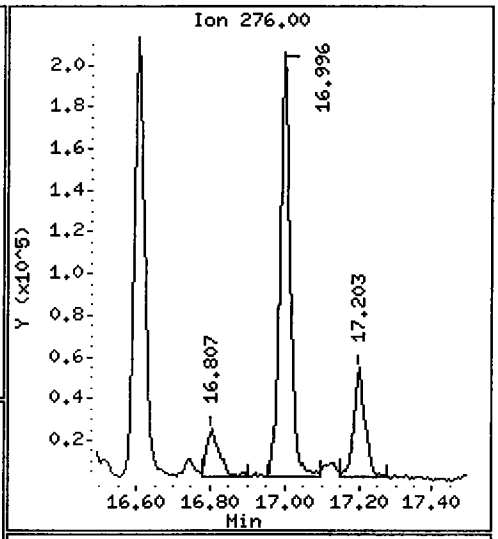
Column phase: ZB-5msi

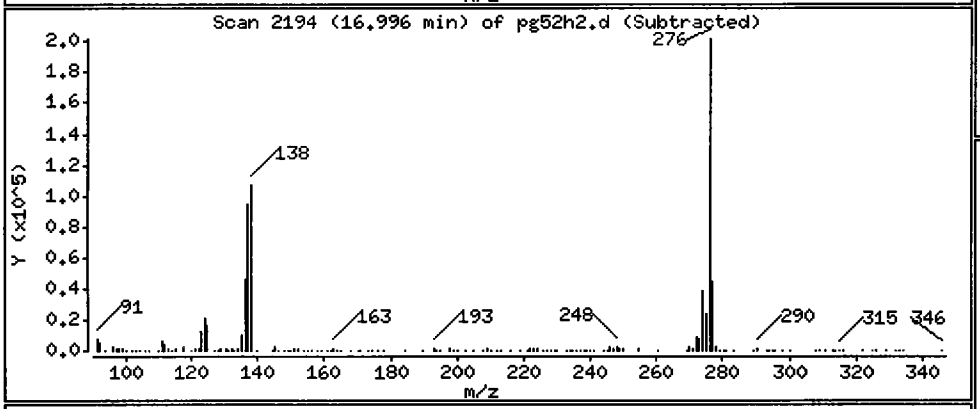
Column diameter: 0.25

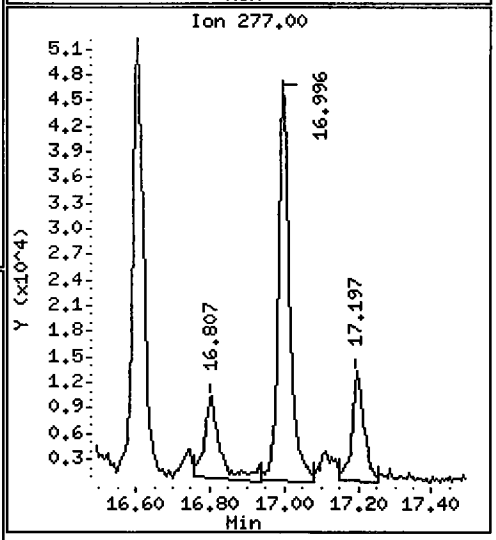
35 Benzo(g,h,i)perylene

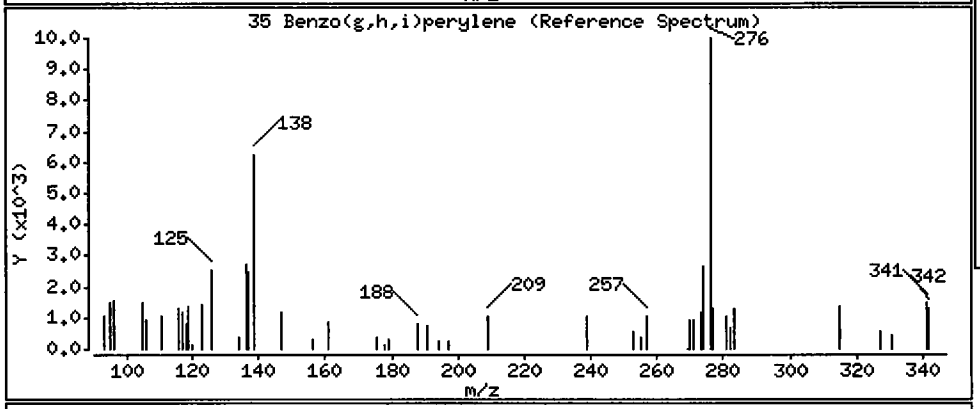
Concentration: 355.8 ug/kg

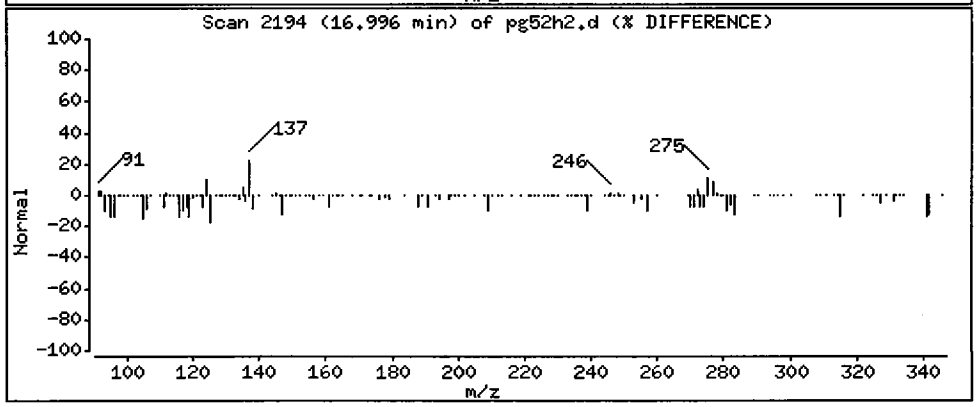












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: AHA-01-1NE(0-3)
SAMPLE

Lab Sample ID: PG52M
LIMS ID: 09-16498
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 07/14/09
Date Analyzed: 07/17/09 23:44
Instrument/Analyst: NT1/YZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 11.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 17.0%

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	4.6	74	
91-57-6	2-Methylnaphthalene	4.6	44	
90-12-0	1-Methylnaphthalene	4.6	24	
208-96-8	Acenaphthylene	4.6	290	
83-32-9	Acenaphthene	4.6	9.6	
86-73-7	Fluorene	4.6	48	
85-01-8	Phenanthrene	4.6	880	E
120-12-7	Anthracene	4.6	150	
206-44-0	Fluoranthene	4.6	1,700	E
129-00-0	Pyrene	4.6	1,600	E
56-55-3	Benzo(a)anthracene	4.6	1,100	E
218-01-9	Chrysene	4.6	1,300	E
205-99-2	Benzo(b)fluoranthene	4.6	930	E
207-08-9	Benzo(k)fluoranthene	4.6	930	E
50-32-8	Benzo(a)pyrene	4.6	1,500	E
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	520	E
53-70-3	Dibenz(a,h)anthracene	4.6	240	
191-24-2	Benzo(g,h,i)perylene	4.6	460	E
132-64-9	Dibenzofuran	4.6	13	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	86.3%
d14-Dibenzo(a,h)anthracen	82.3%

YZ 7/19/09

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20090717.b/pg52m.d
Lab Smp Id: PG52M Client Smp ID: AHA-01-1NE(0-3)
Inj Date : 17-JUL-2009 23:44
Operator : VTS Inst ID: nt1.i
Smp Info : PG52M
Misc Info : 09-16498
Comment : 1ul Injection
Method : /chem3/nt1.i/20090717.b/simpna.m
Meth Date : 18-Jul-2009 10:30 yev Quant Type: ISTD
Cal Date : 11-JUL-2009 14:37 Cal File: ic0711f.d
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	13.30000	Weight of sample extracted (g)
M	17.00000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
*	1 Naphthalene-d8	136	6.475	6.474	(1.000)	433941	2.00000	
	2 Naphthalene	128	6.499	6.498	(1.004)	312713	1.63933	74.25
$	3 2-Methylnaphthalene-d10	152	7.225	7.218	(1.116)	248309	2.59075	117.3
	4 2-Methylnaphthalene	142	7.261	7.260	(1.121)	104053	0.98190	44.47
	5 1-Methylnaphthalene	142	7.385	7.384	(1.141)	55633	0.53120	24.06
	7 Acenaphthylene	152	8.330	8.329	(0.979)	1000119	6.29952	285.3
*	8 Acenaphthene-d10	164	8.507	8.506	(1.000)	205365	2.00000	
	9 Acenaphthene	153	8.543	8.548	(1.004)	20475	0.20572	9.318
	10 Dibenzofuran	168	8.732	8.737	(1.026)	42412	0.29410	13.32
	11 Fluorene	166	9.151	9.156	(1.076)	108419	1.05526	47.80
*	15 Phenanthrene-d10	188	10.303	10.302	(1.000)	316791	2.00000	
	16 Phenanthrene	178	10.333	10.332	(1.003)	2831072	19.2724E	872.9
	17 Anthracene	178	10.386	10.391	(1.008)	491620	3.35611	152.0
	19 Fluoranthene	202	11.828	11.815	(1.148)	5129138	37.9054E	1717

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.111	12.098	(0.890)	6456767	34.4697 E	1561
	22 Benzo(a)anthracene	228	13.588	13.581	(0.998)	3232393	24.5718 E	1113
*	23 Chrysene-d12	240	13.612	13.599	(1.000)	279702	2.00000	
	24 Chrysene	228	13.641	13.634	(1.002)	3903050	28.3531 E	1284
	28 Benzo(b)fluoranthene	252	14.882	14.846	(0.973)	5356874	42.4952 ∑ 20.529	1925 E
	29 Benzo(k)fluoranthene	252	14.882	14.869	(0.973)	5356874	39.6211 ∑ 20.529	1795 E
	30 Benzo(a)pyrene	252	15.236	15.218	(0.997)	3437059	32.4156 E	1468
*	31 Perylene-d12	264	15.290	15.277	(1.000)	252026	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	16.666	16.648	(1.090)	1233274	11.4182 E	517.2
$	32 Dibenz(a,h)anthrancene-d14	292	16.607	16.594	(1.086)	153613	2.46777 ✓	111.8
	34 Dibenz(a,h)anthracene	278	16.654	16.642	(1.089)	425731	5.21434 ✓	236.2
	35 Benzo(g,h,i)perylene	276	17.062	17.043	(1.116)	1017075	10.0679 E	456.0

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: pg52m.d
Lab Smp Id: PG52M
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20090717.b/simpna.m
Misc Info: 09-16498

Calibration Date: 17-JUL-2009
Calibration Time: 13:57
Client Smp ID: AHA-01-1NE(0-3)
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	463169	231584	926338	433941	-6.31
8 Acenaphthene-d10	213444	106722	426888	205365	-3.79
15 Phenanthrene-d10	326462	163231	652924	316791	-2.96
23 Chrysene-d12	224038	112019	448076	279702	24.85
31 Perylene-d12	206230	103115	412460	252026	22.21

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.47	5.97	6.97	6.47	0.01
8 Acenaphthene-d10	8.51	8.01	9.01	8.51	0.01
15 Phenanthrene-d10	10.30	9.80	10.80	10.30	0.01
23 Chrysene-d12	13.60	13.10	14.10	13.61	0.09
31 Perylene-d12	15.28	14.78	15.78	15.29	0.08

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA
Sample Matrix: SOLID
Lab Smp Id: PG52M
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: pna1mn.sub
Method File: /chem3/nt1.i/20090717.b/simpna.m
Misc Info: 09-16498

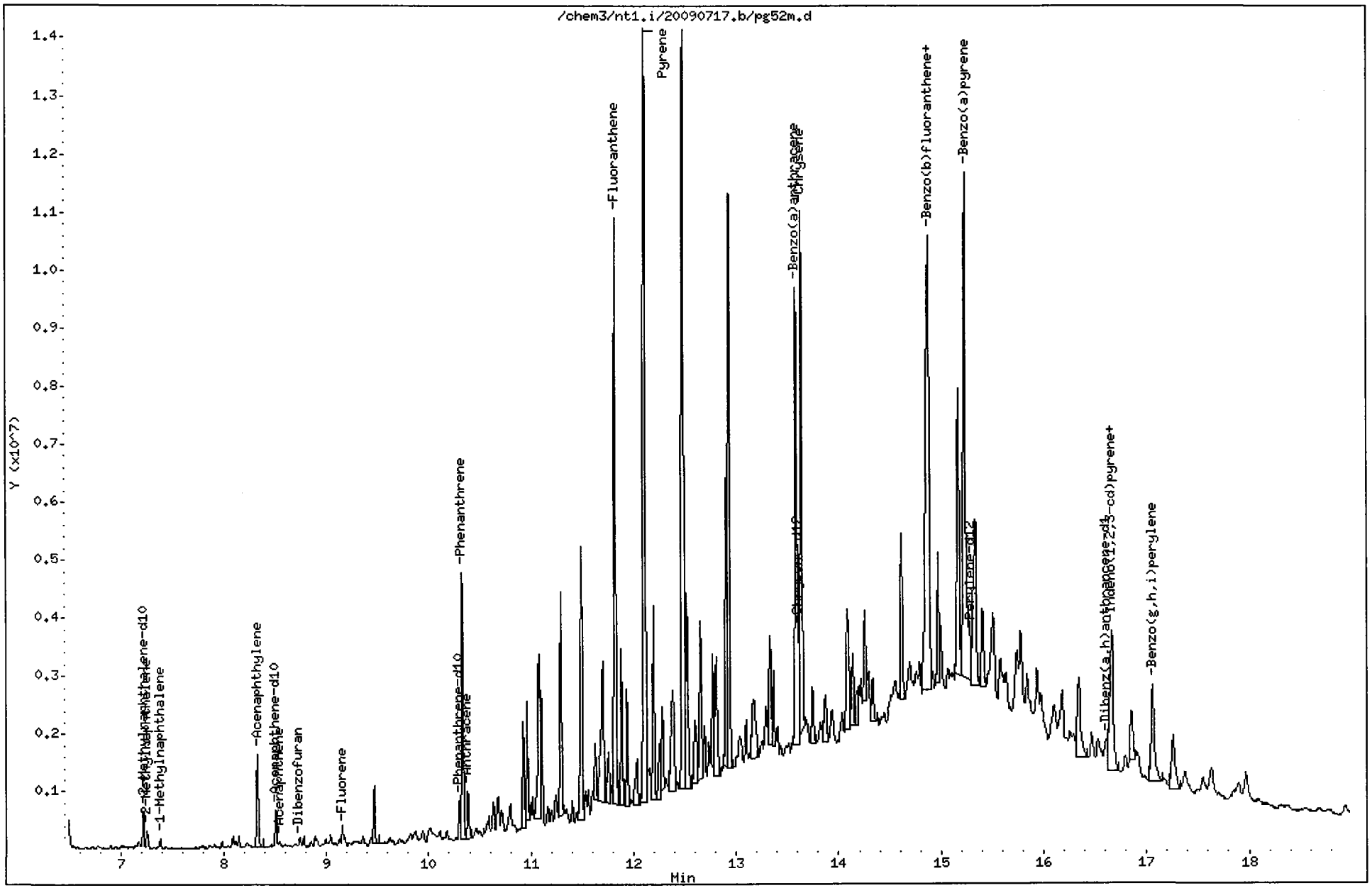
Client SDG: PG52
Fraction: SV
Client Smp ID: AHA-01-1NE(0-3)
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	135.9	117.3	86.36	34-100
$ 32 Dibenz(a,h)anthran	135.9	111.8	82.26	10-117

Data File: /chem3/nt1.i/20090717.b/pg52m.d
Date : 17-JUL-2009 23:44
Client ID: AHA-01-1NE(0-3)
Sample Info: PG52M
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

PG52:090122



Data File: /chem3/nt1.i/20090717.b/pg52m.d

Date : 17-JUL-2009 23:44

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M

Volume Injected (uL): 1.0

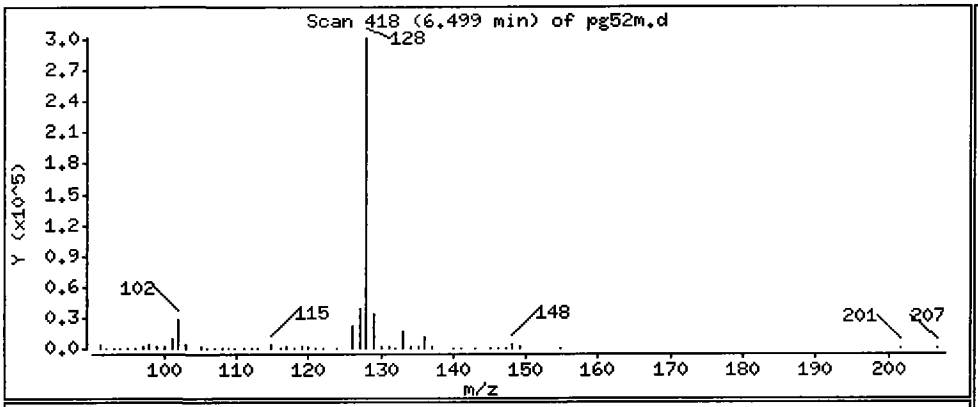
Operator: VTS

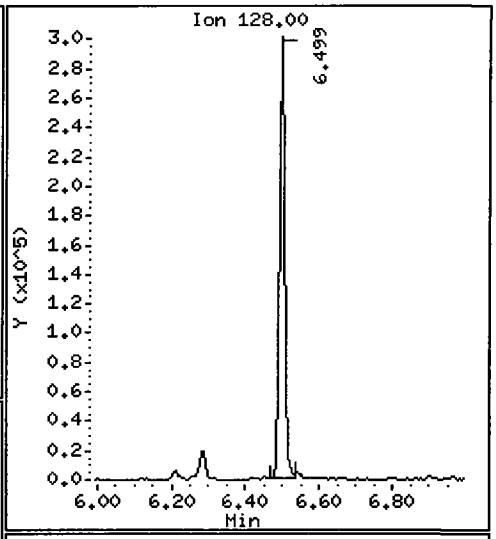
Column phase: ZB-5msi

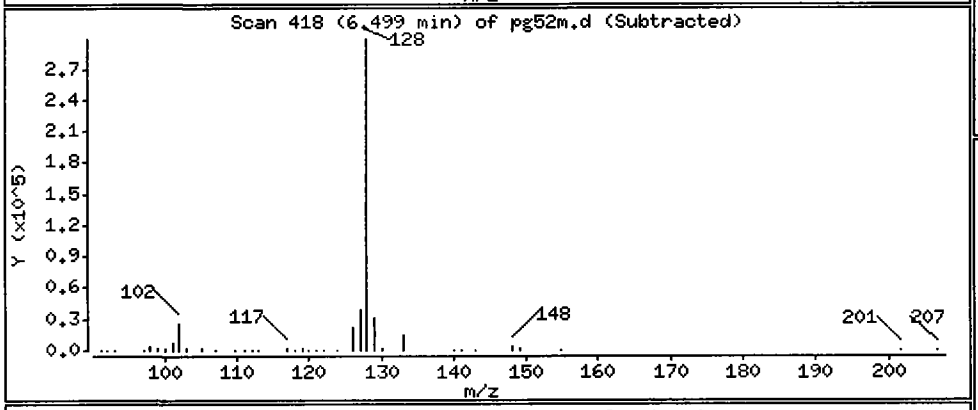
Column diameter: 0.25

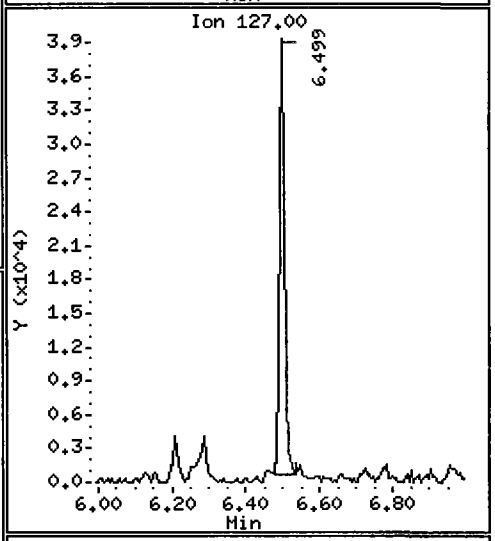
2 Naphthalene

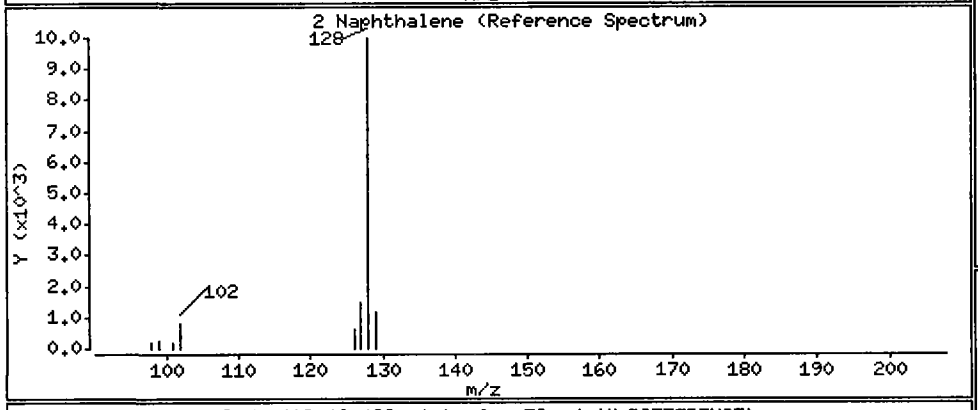
Concentration: 74.25 ug/kg

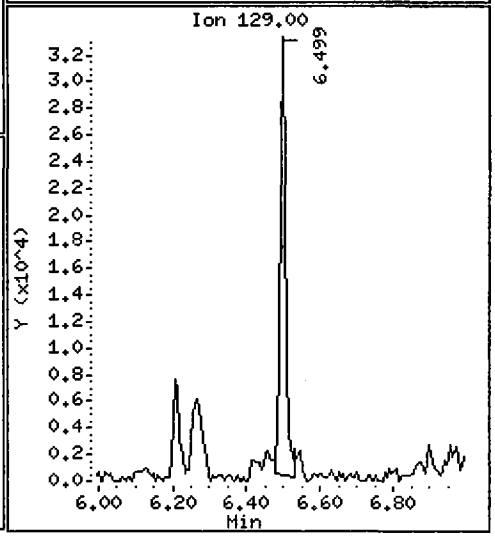


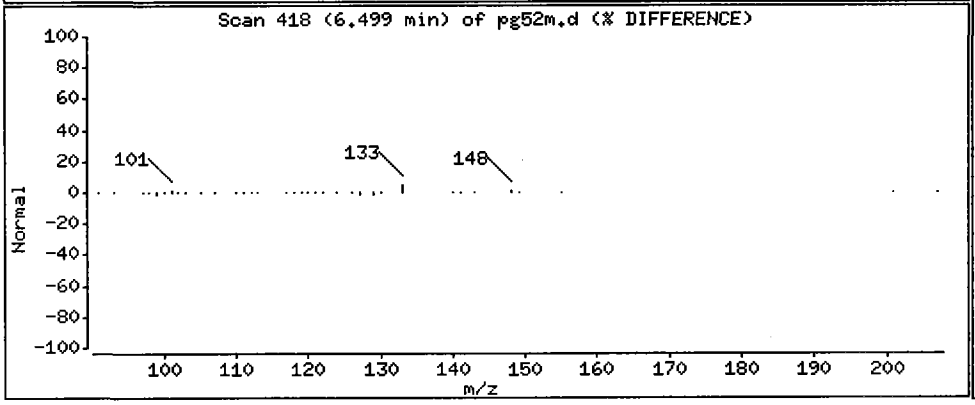












Data File: /chem3/nt1.i/20090717.b/pg52m.d

Date : 17-JUL-2009 23:44

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M

Volume Injected (uL): 1.0

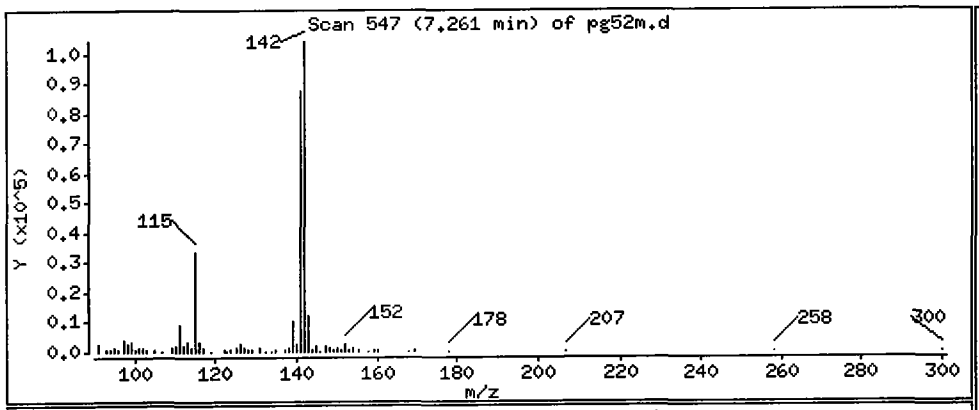
Operator: VTS

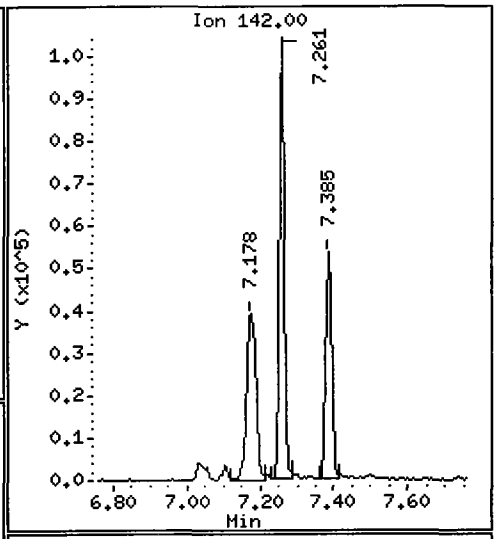
Column phase: ZB-5msi

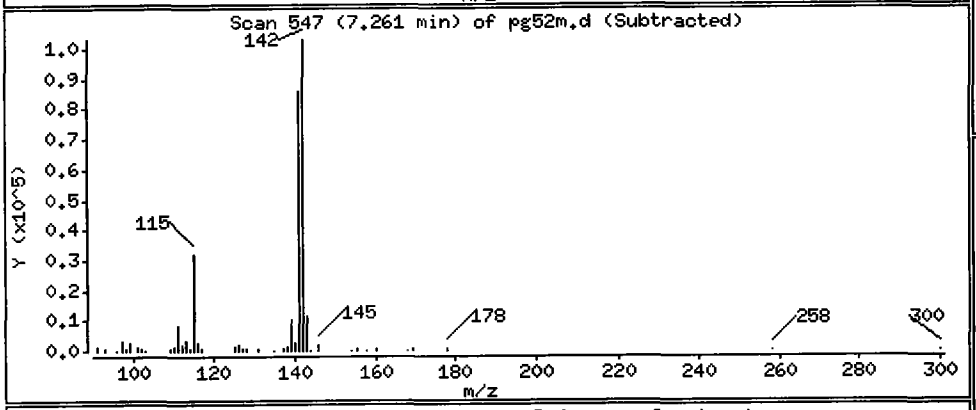
Column diameter: 0.25

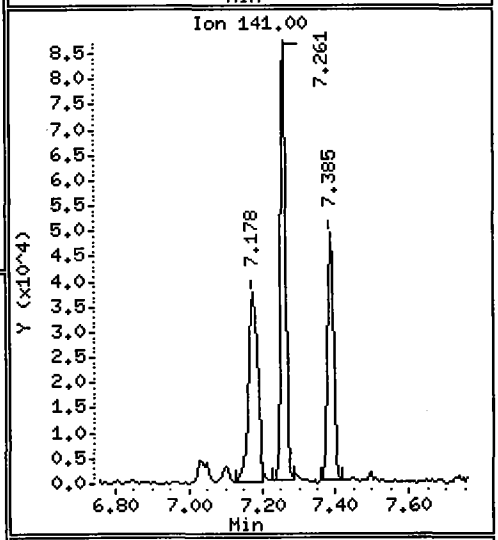
4 2-Methylnaphthalene

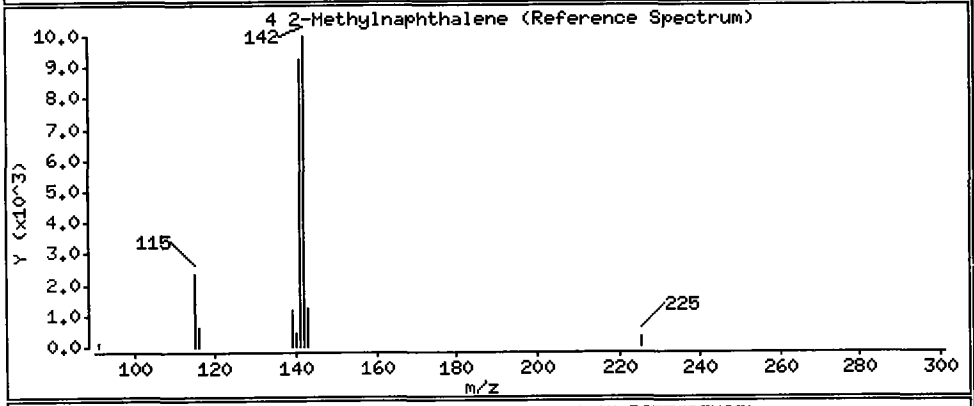
Concentration: 44.47 ug/kg

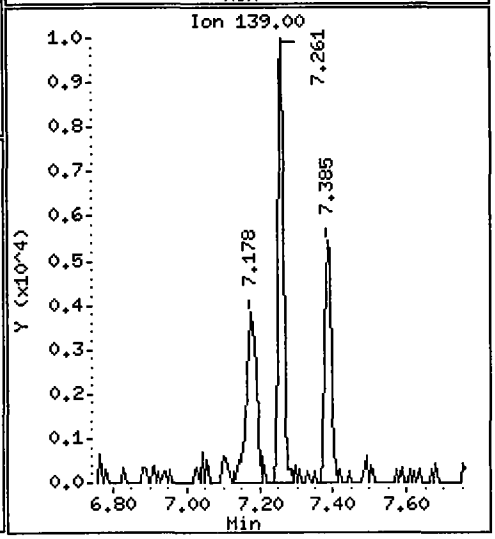


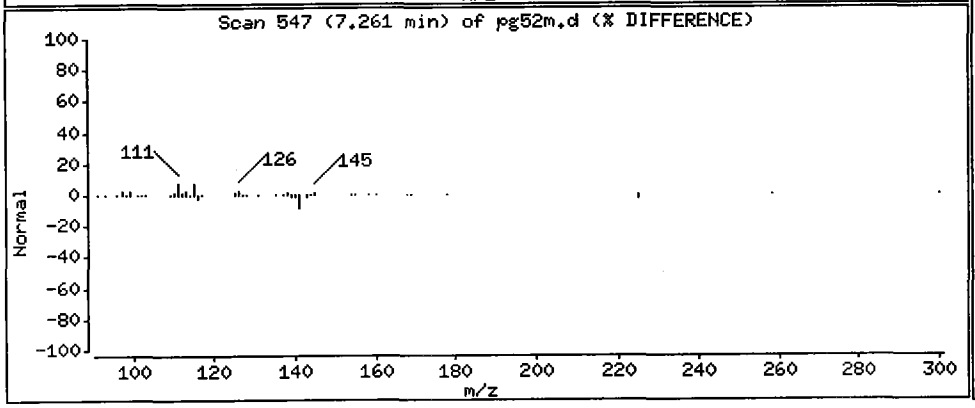












Data File: /chem3/nt1.i/20090717.b/pg52m.d

Date : 17-JUL-2009 23:44

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M

Volume Injected (uL): 1.0

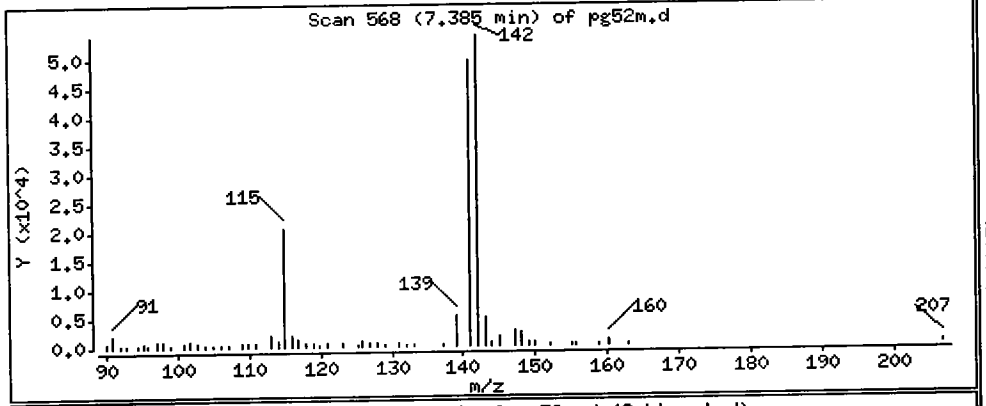
Operator: VTS

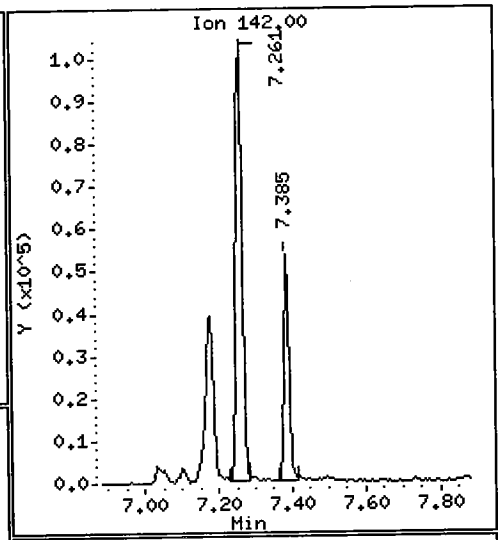
Column phase: ZB-5msi

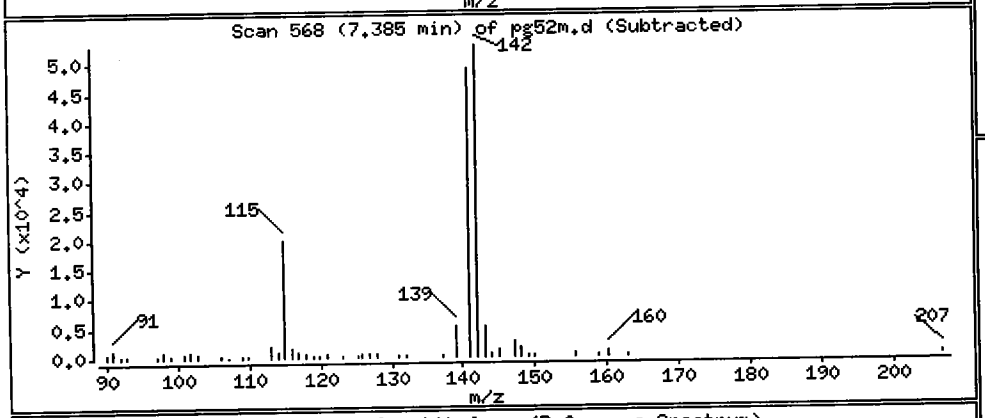
Column diameter: 0.25

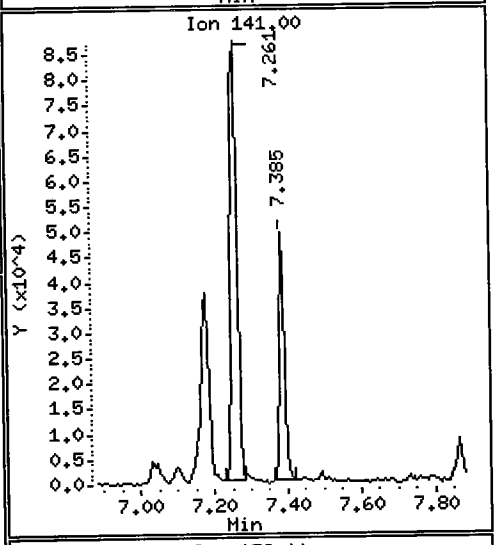
5 1-Methylnaphthalene

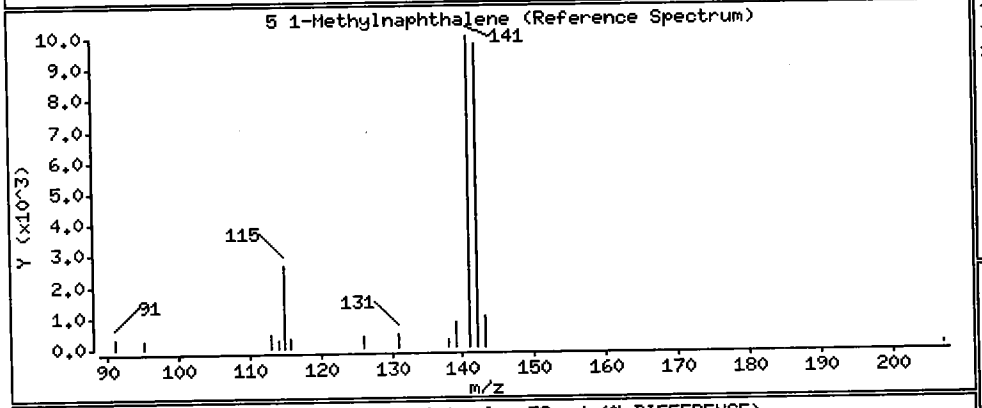
Concentration: 24.06 ug/kg

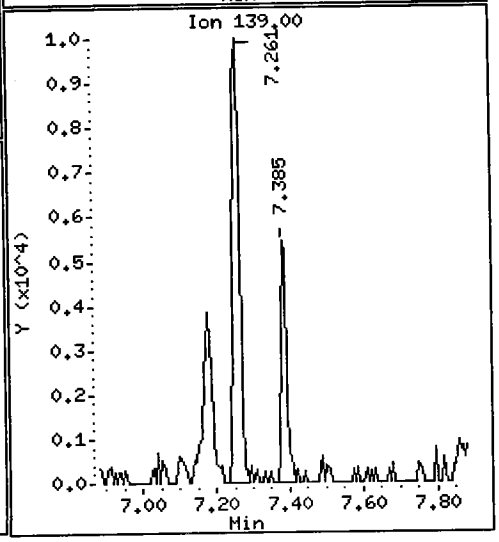


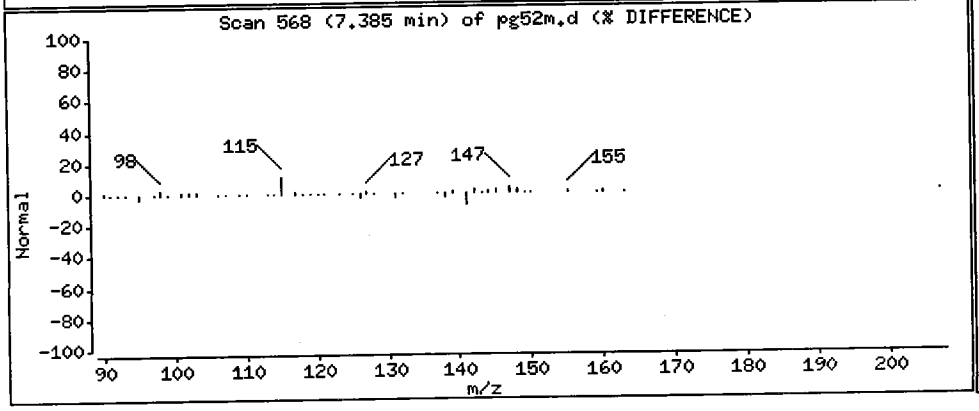












Data File: /chem3/nt1.i/20090717.b/pg52m.d

Date : 17-JUL-2009 23:44

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M

Volume Injected (uL): 1.0

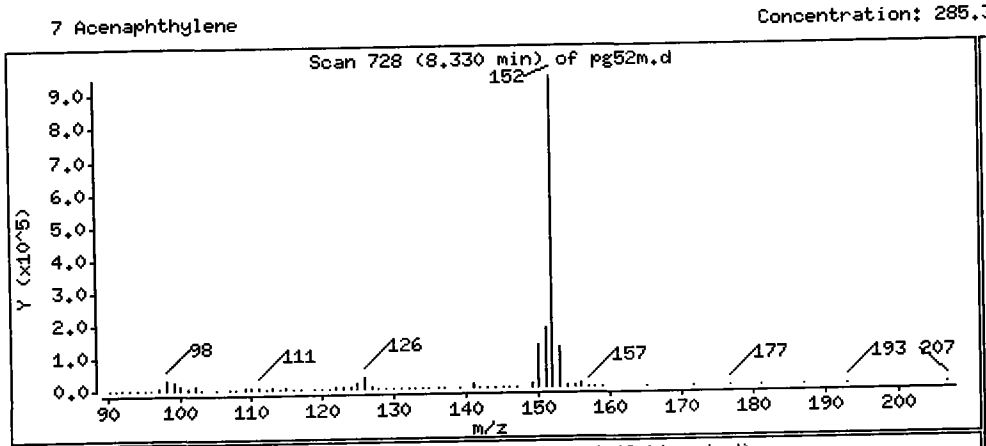
Operator: VTS

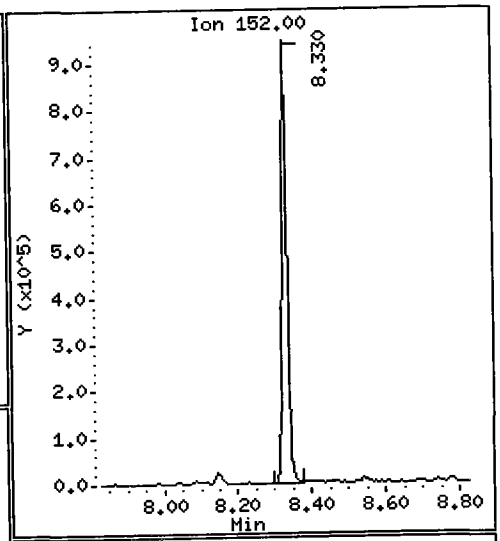
Column phase: ZB-5msi

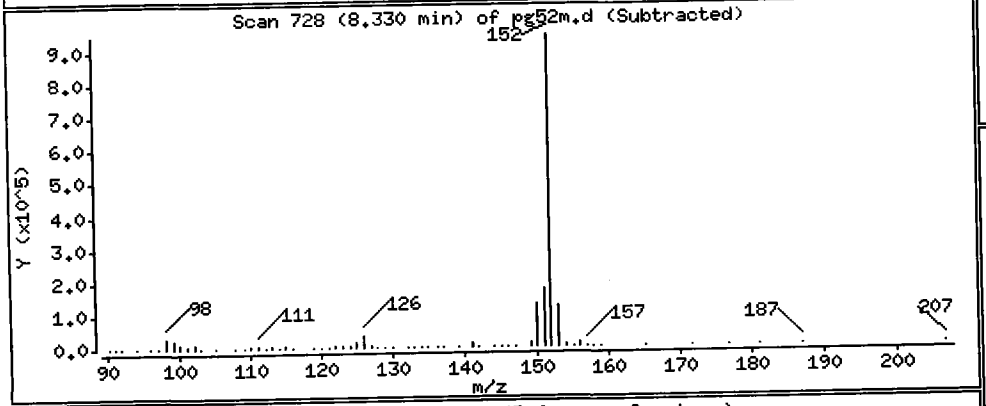
Column diameter: 0.25

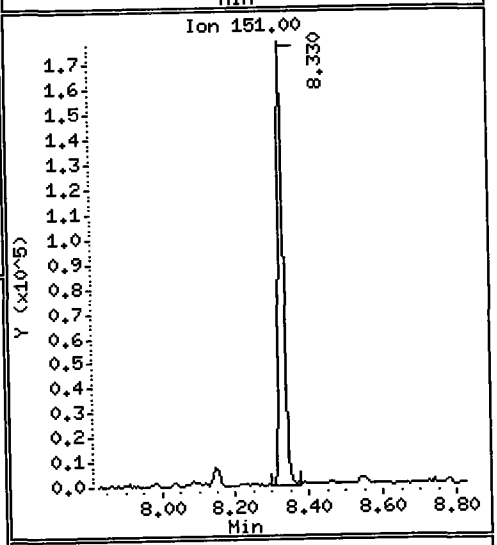
7 Acenaphthylene

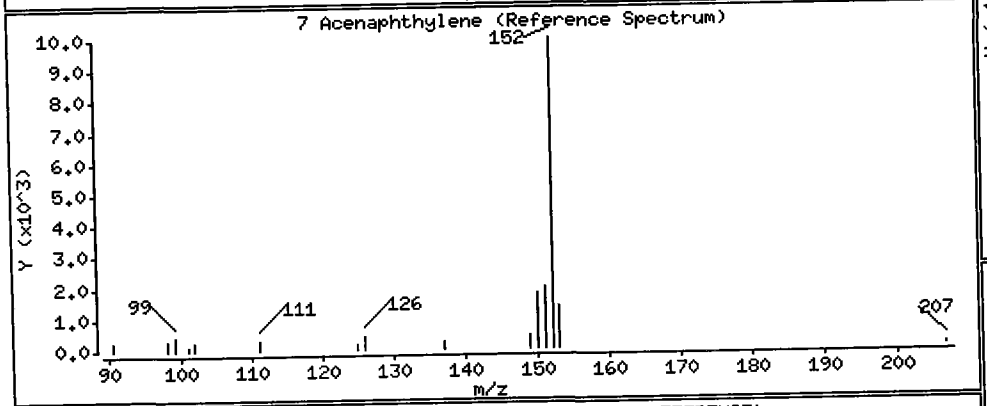
Concentration: 285.3 ug/kg

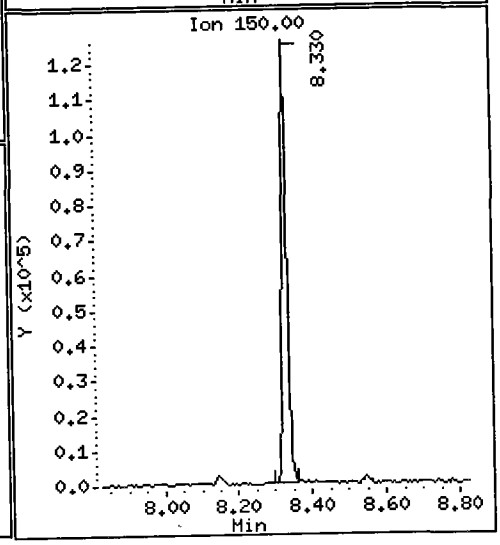


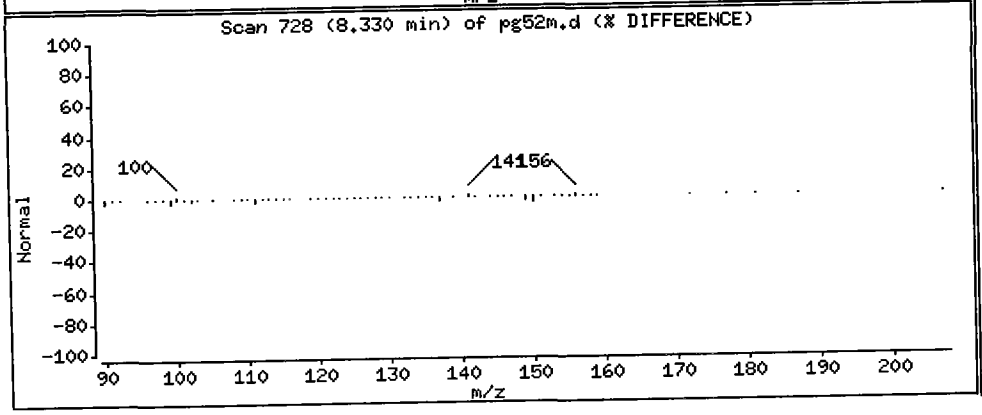












Data File: /chem3/nt1.i/20090717.b/pg52m.d

Date : 17-JUL-2009 23:44

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M

Volume Injected (uL): 1.0

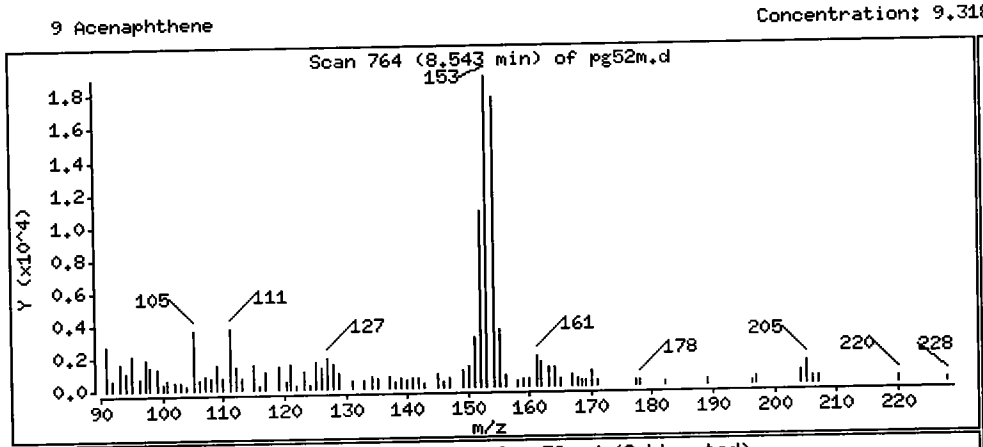
Operator: VTS

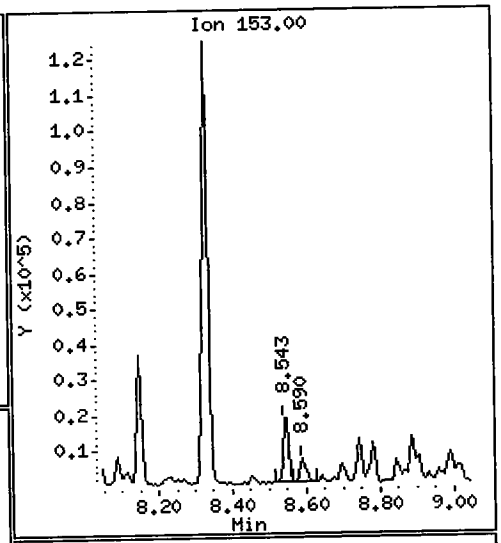
Column phase: ZB-5msi

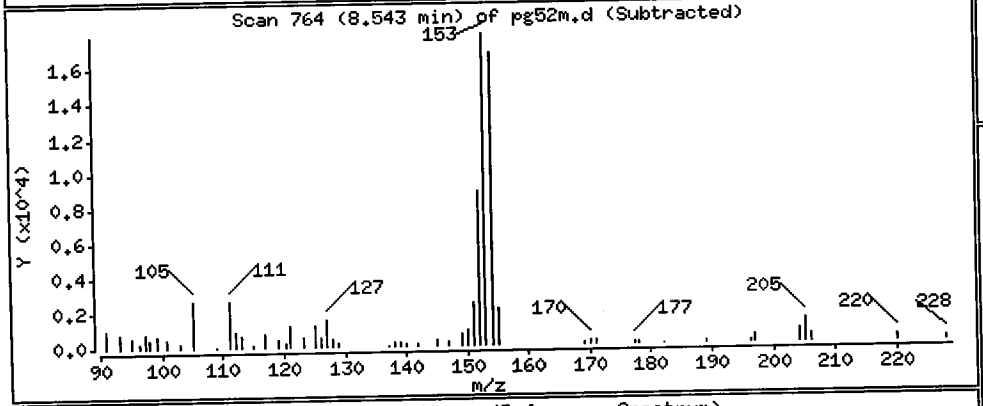
Column diameter: 0.25

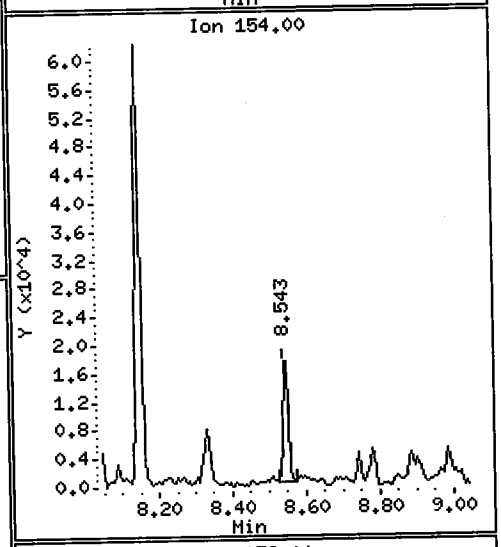
9 Acenaphthene

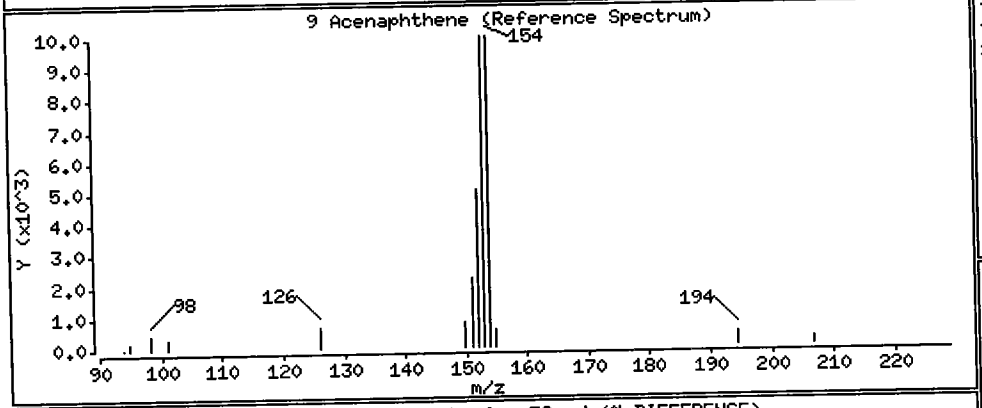
Concentration: 9.318 ug/kg

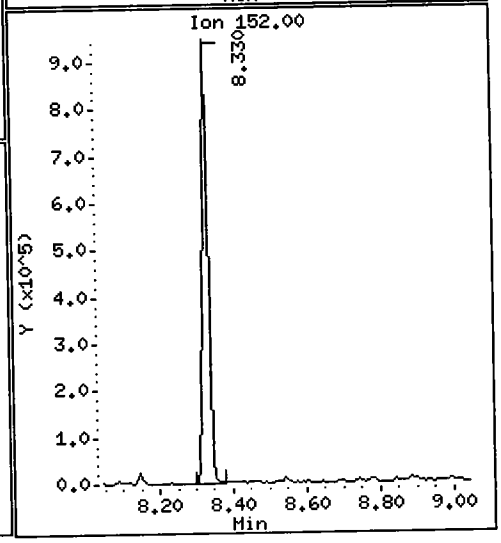


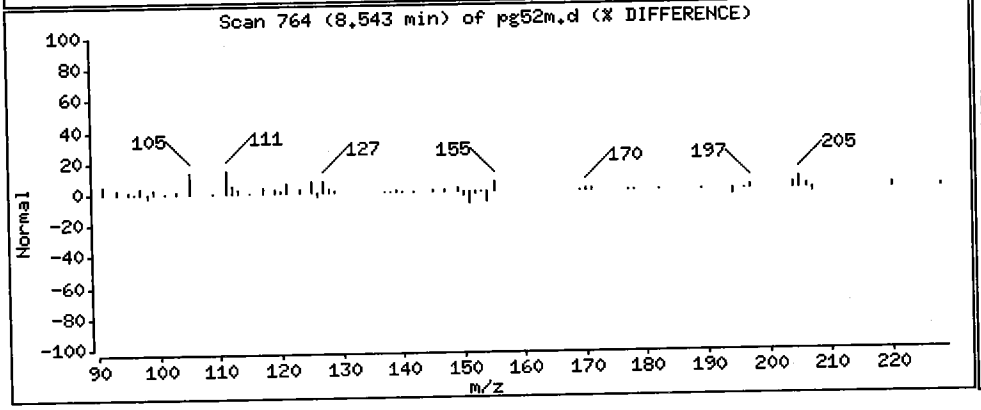












Data File: /chem3/nt1.i/20090717.b/pg52m.d

Date : 17-JUL-2009 23:44

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M

Volume Injected (uL): 1.0

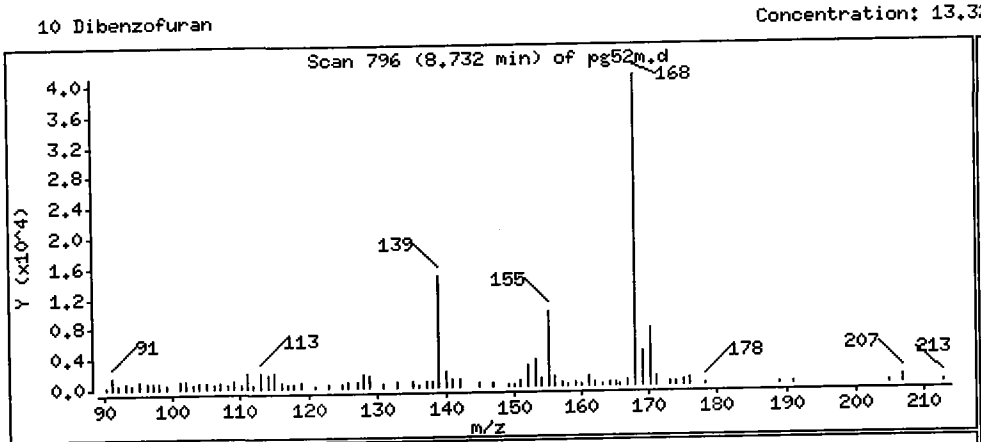
Operator: VTS

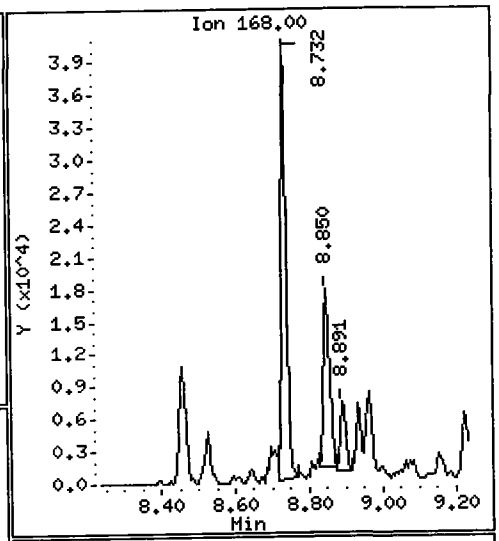
Column phase: ZB-5msi

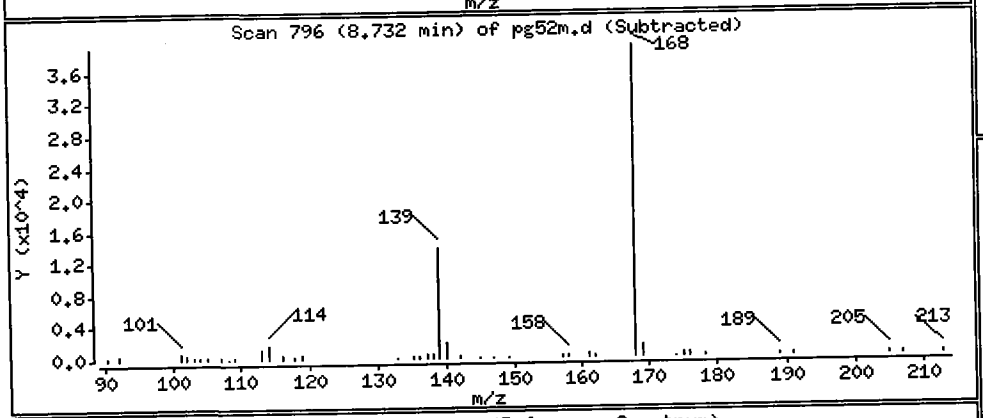
Column diameter: 0.25

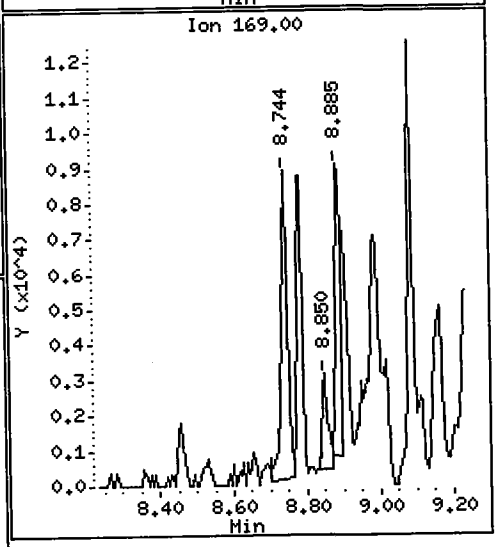
Concentration: 13.32 ug/kg

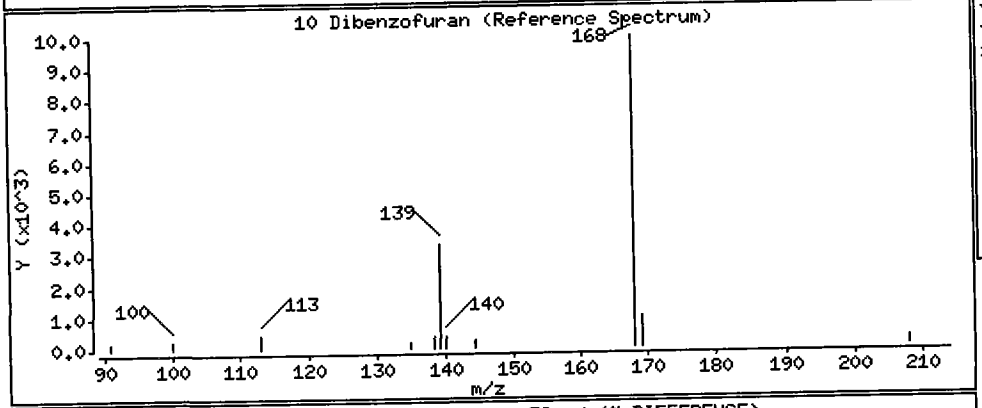
10 Dibenzofuran

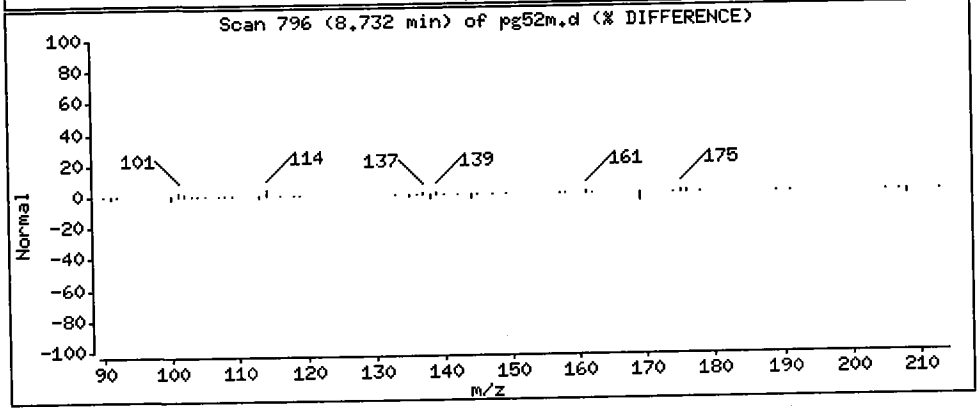












Data File: /chem3/nt1.i/20090717.b/pg52m.d

Date : 17-JUL-2009 23:44

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M

Volume Injected (uL): 1.0

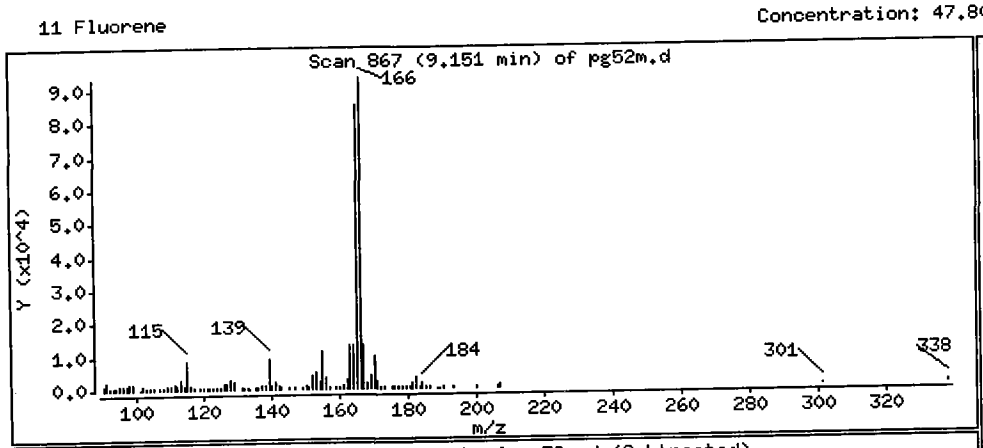
Operator: VTS

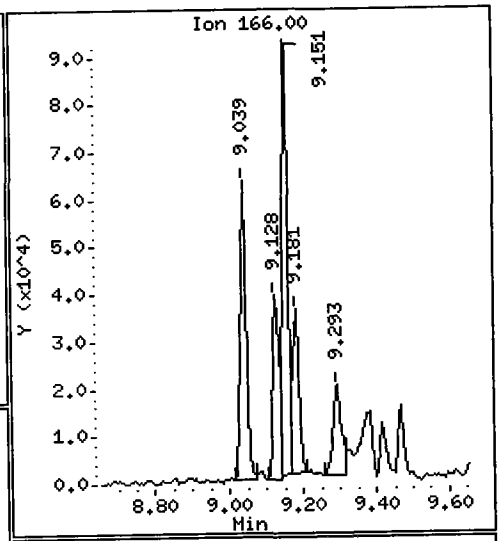
Column phase: ZB-5msi

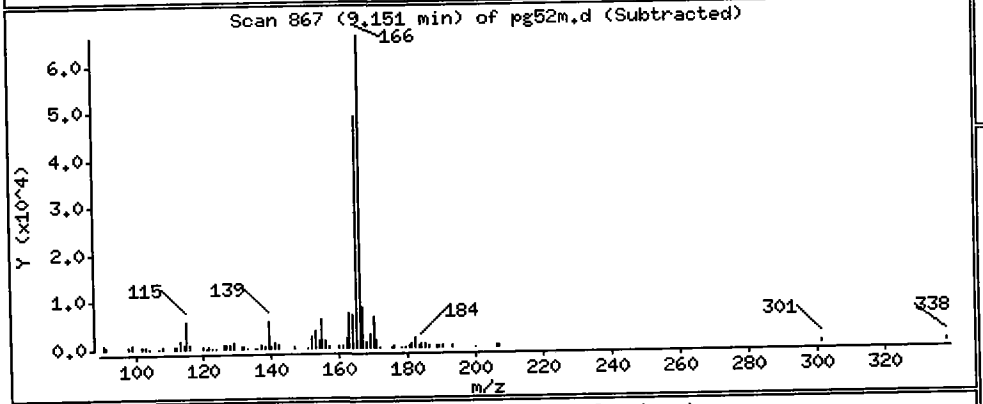
Column diameter: 0.25

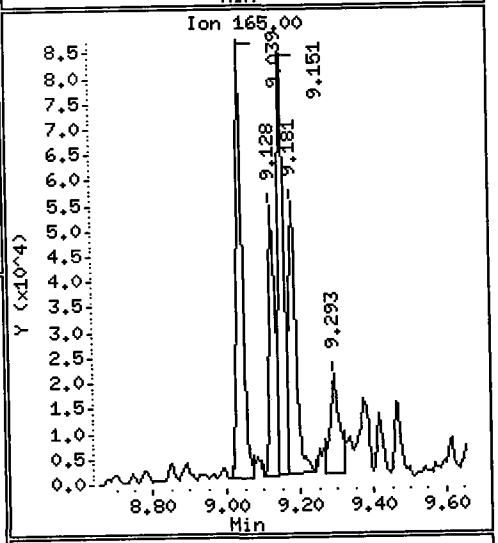
Concentration: 47.80 ug/kg

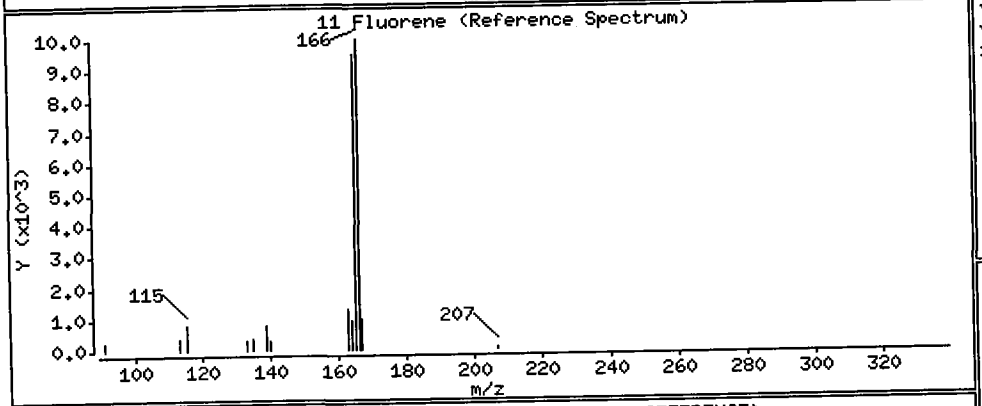
11 Fluorene

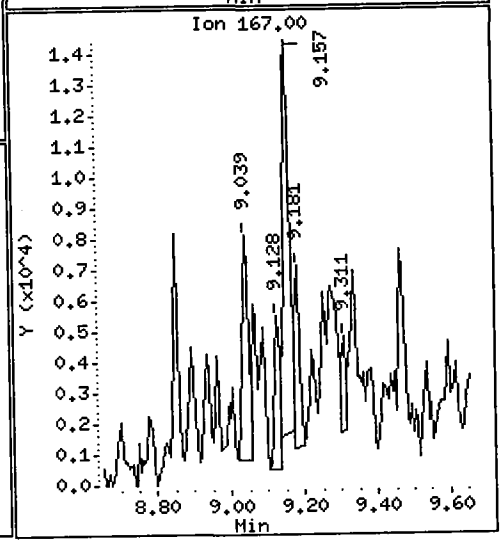


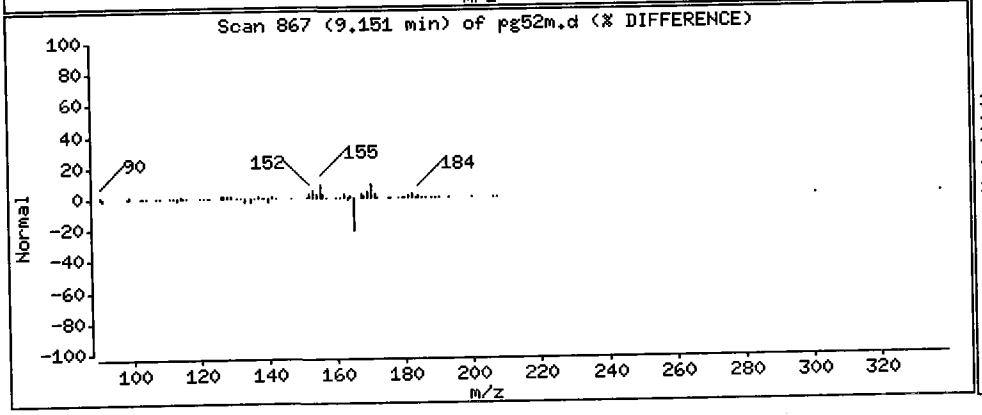












Data File: /chem3/nt1.i/20090717.b/pg52m.d

Date : 17-JUL-2009 23:44

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M

Volume Injected (uL): 1.0

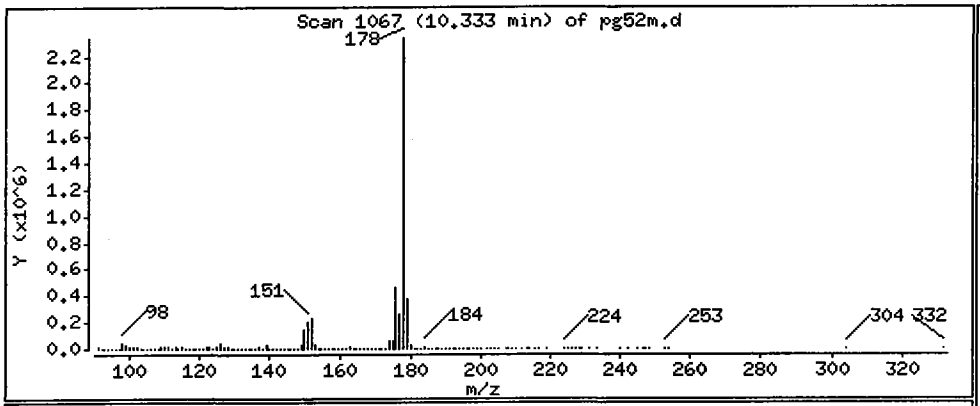
Operator: VTS

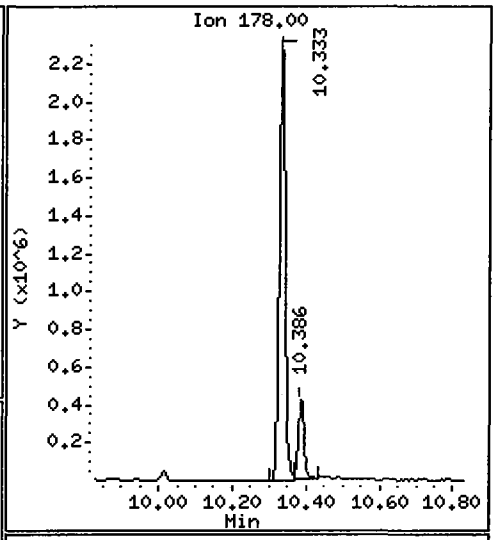
Column phase: ZB-5msi

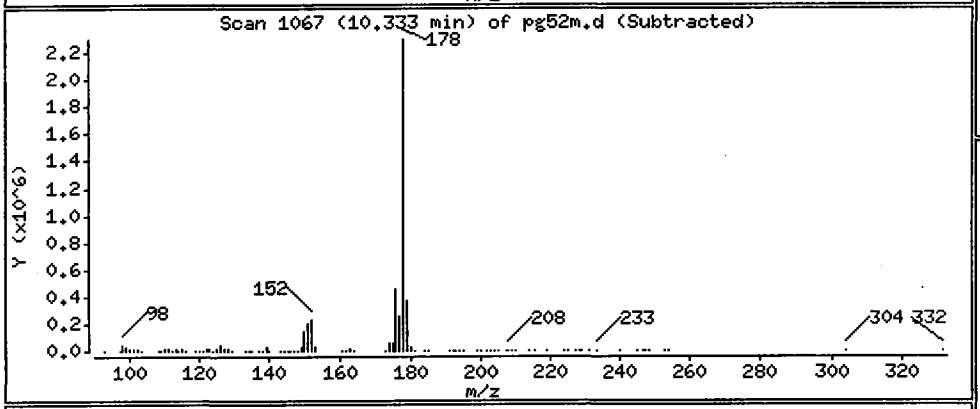
Column diameter: 0.25

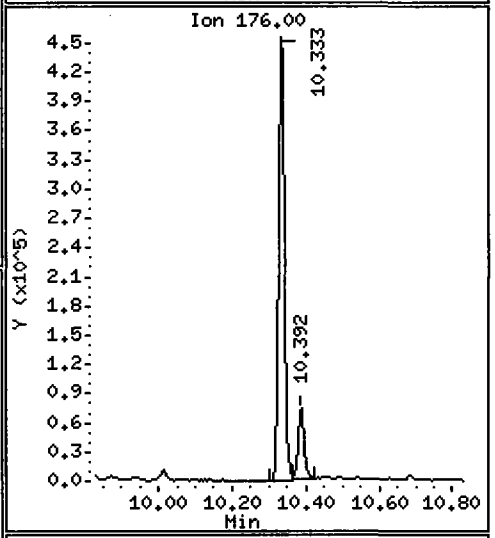
16 Phenanthrene

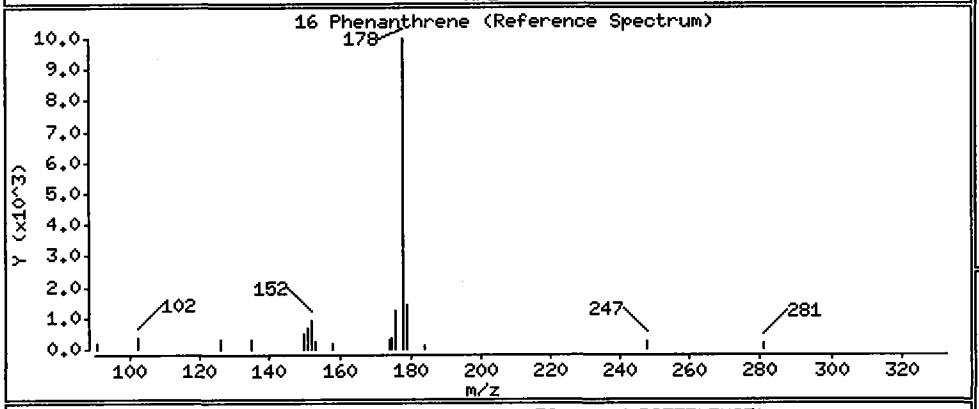
Concentration: 872.9 ug/kg

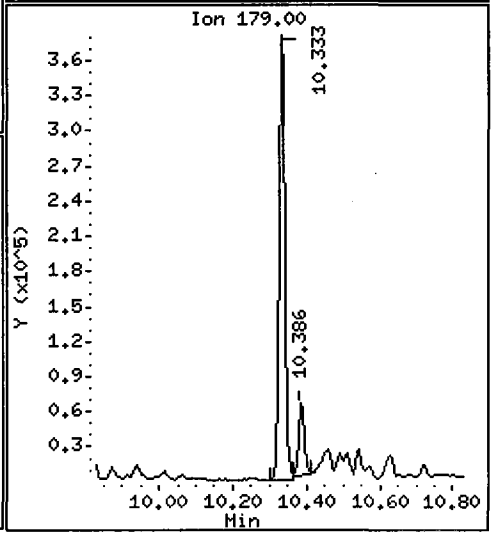


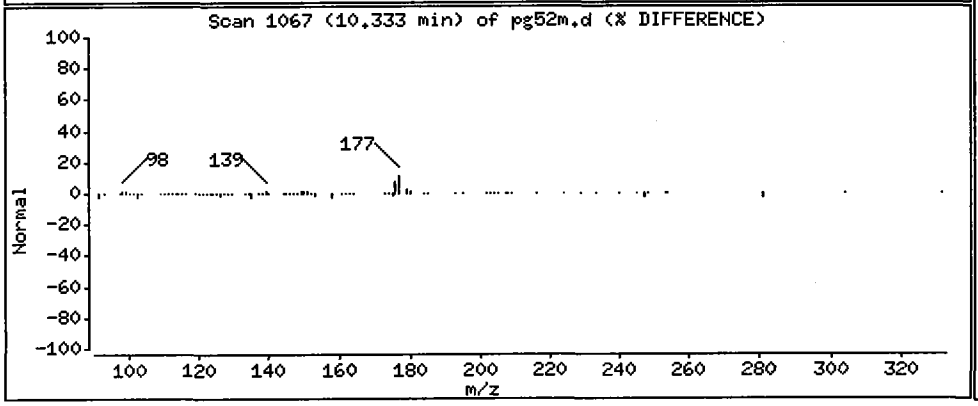












Data File: /chem3/nt1.i/20090717.b/pg52m.d

Date : 17-JUL-2009 23:44

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M

Volume Injected (uL): 1.0

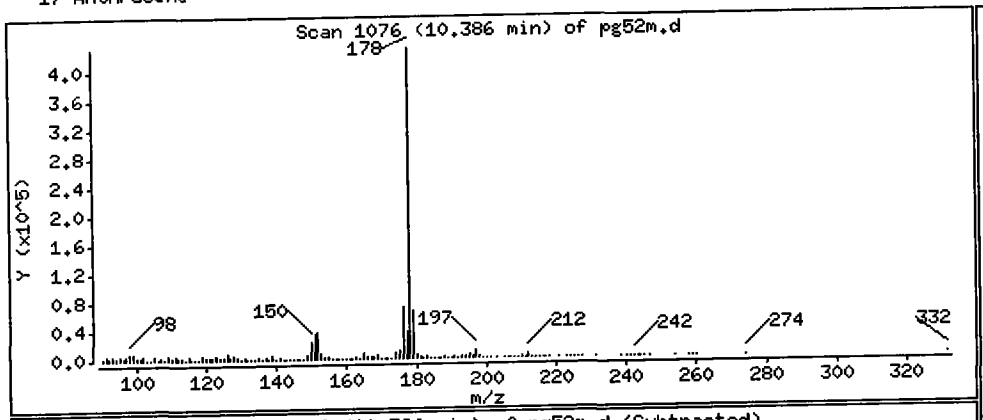
Operator: VTS

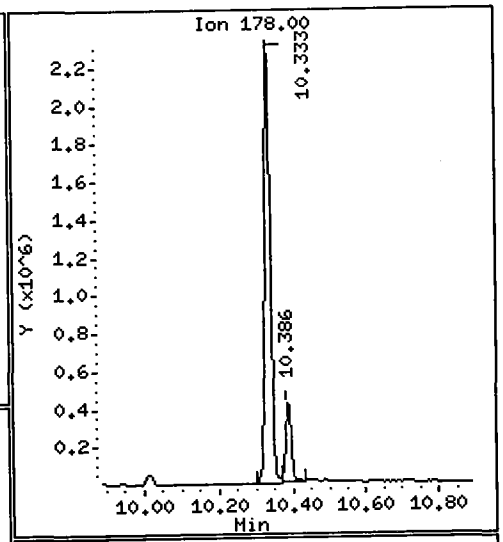
Column phase: ZB-5msi

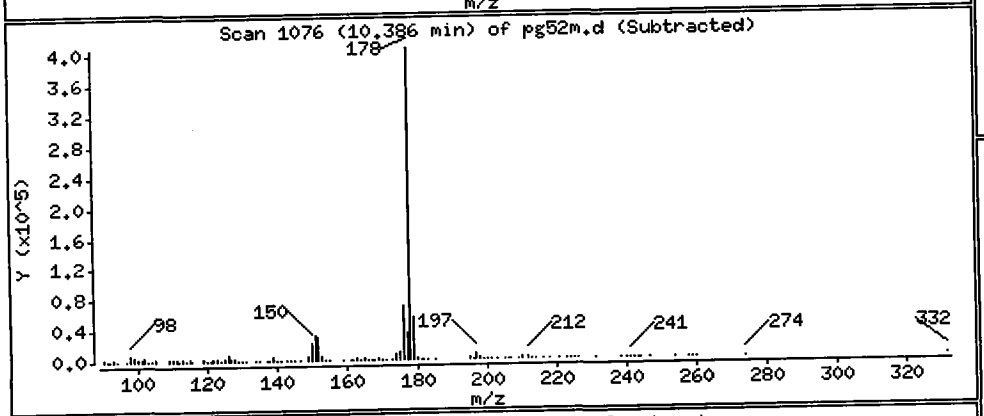
Column diameter: 0.25

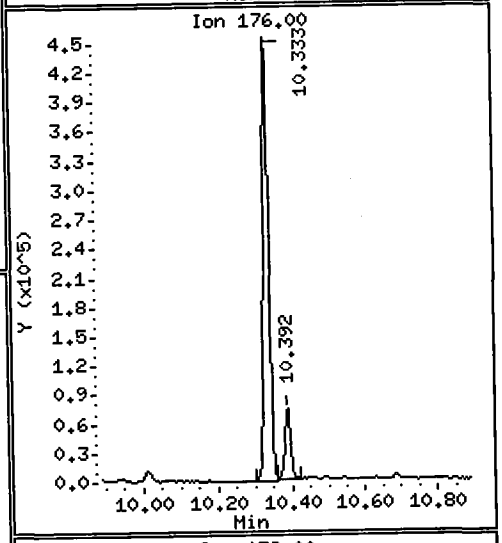
Concentration: 152.0 ug/kg

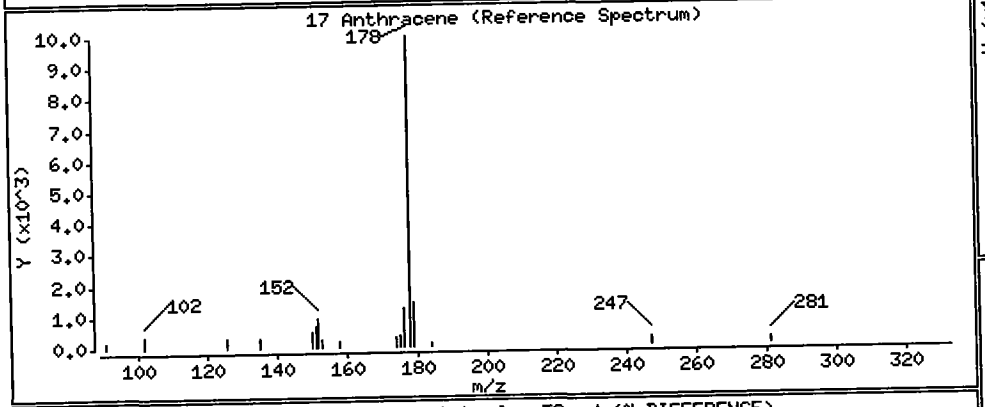
17 Anthracene

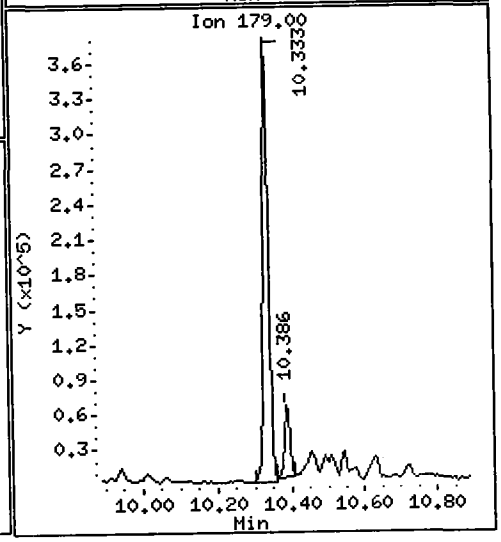


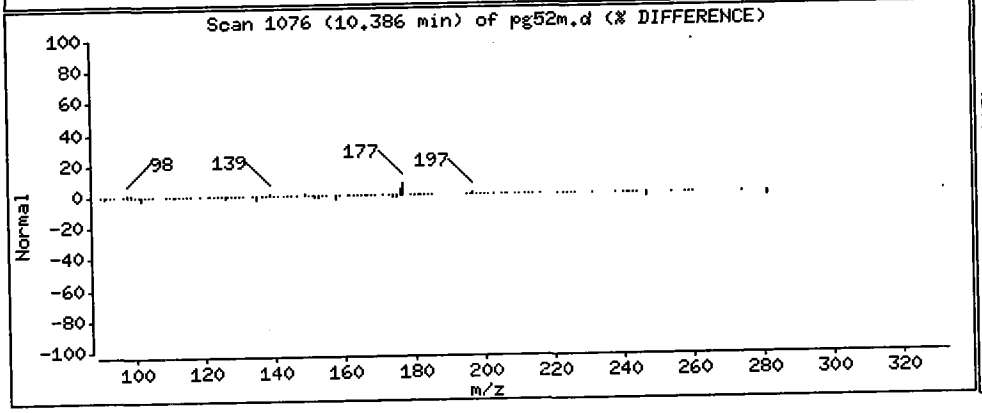












Data File: /chem3/nt1.i/20090717.b/pg52m.d

Date : 17-JUL-2009 23:44

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M

Volume Injected (uL): 1.0

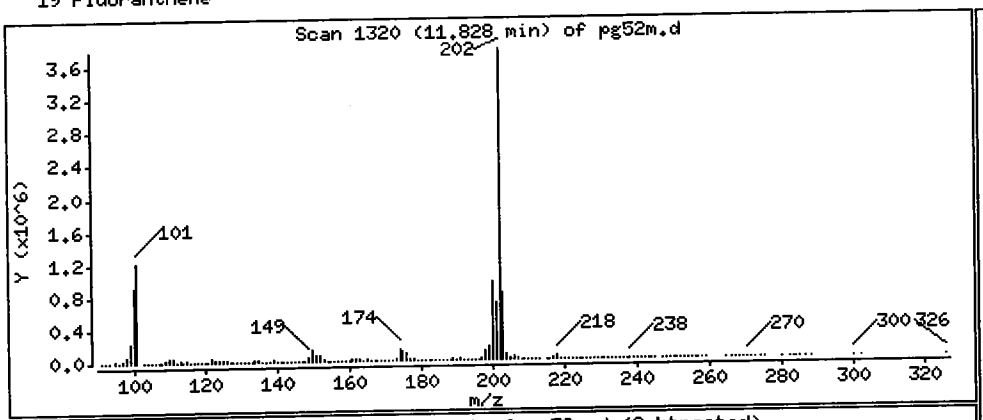
Operator: VTS

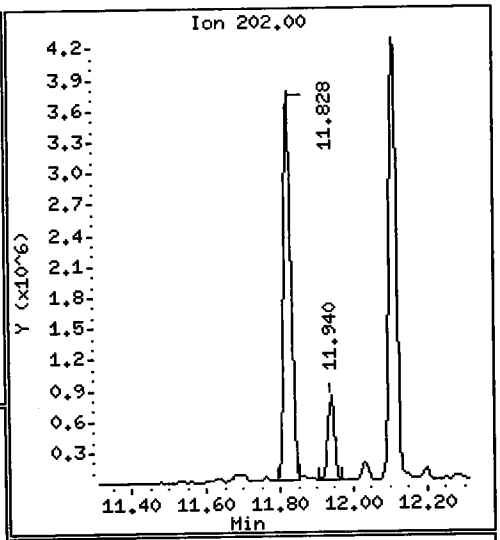
Column phase: ZB-5msi

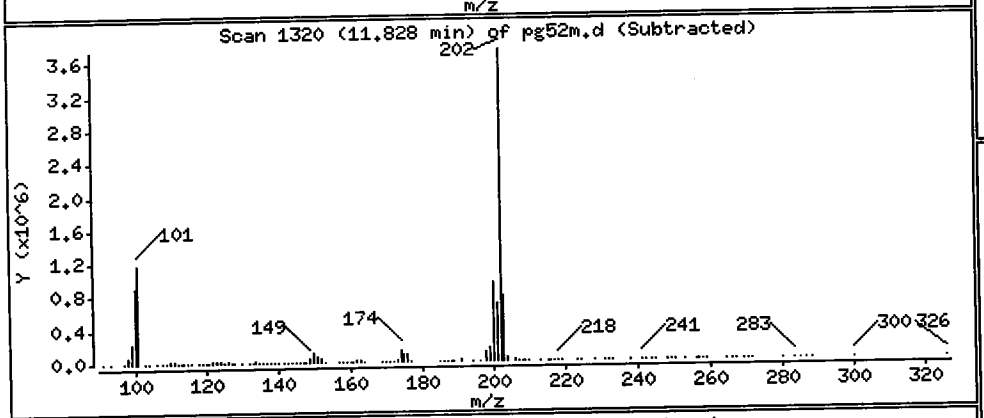
Column diameter: 0.25

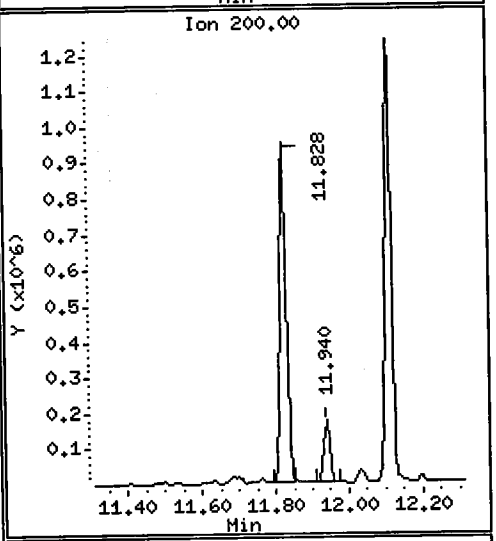
Concentration: 1717 ug/kg

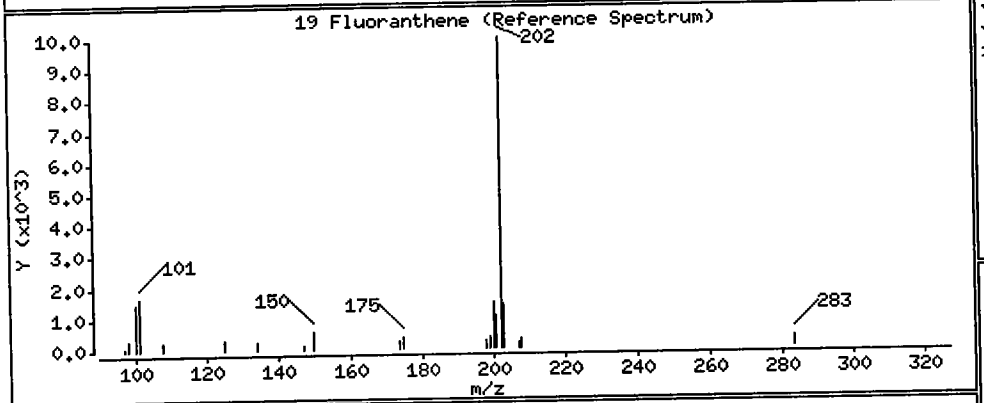
19 Fluoranthene

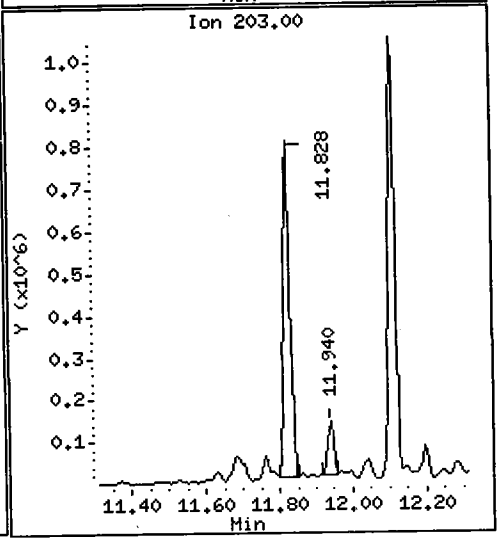


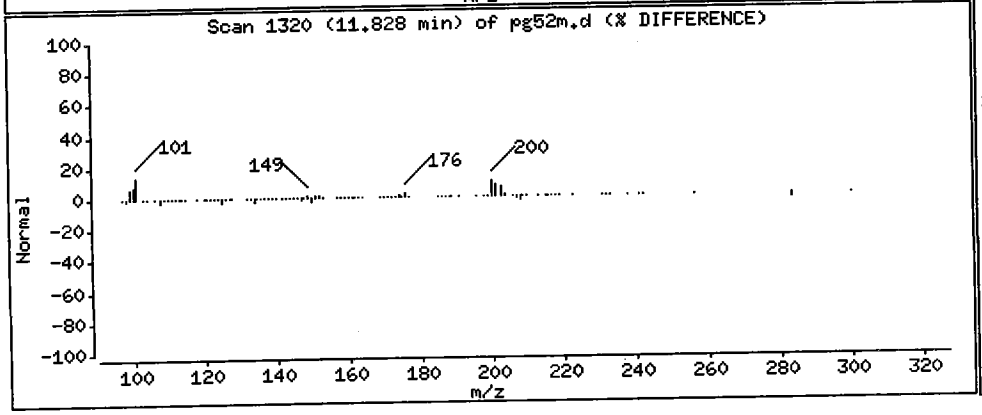












Data File: /chem3/nt1.i/20090717.b/pg52m.d

Date : 17-JUL-2009 23:44

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M

Volume Injected (uL): 1.0

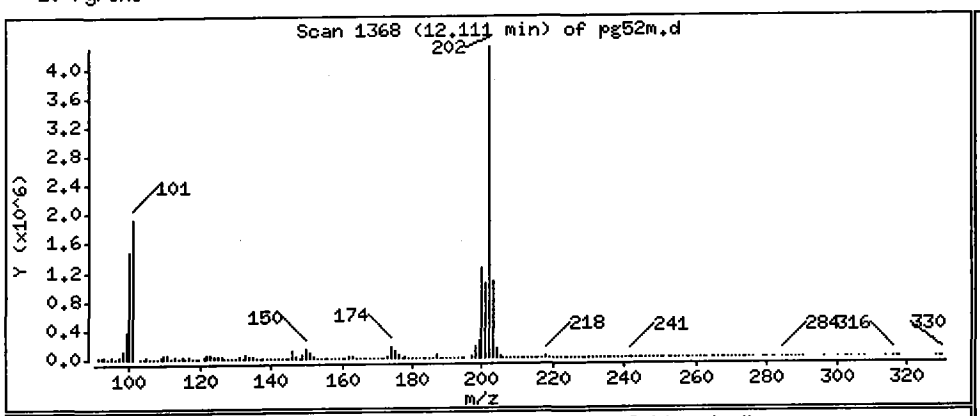
Operator: VTS

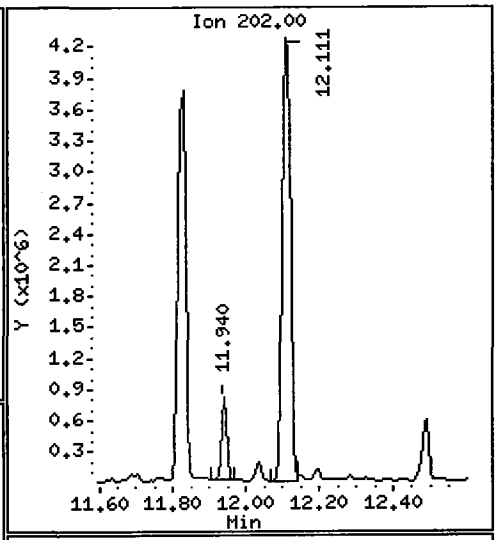
Column phase: ZB-5msi

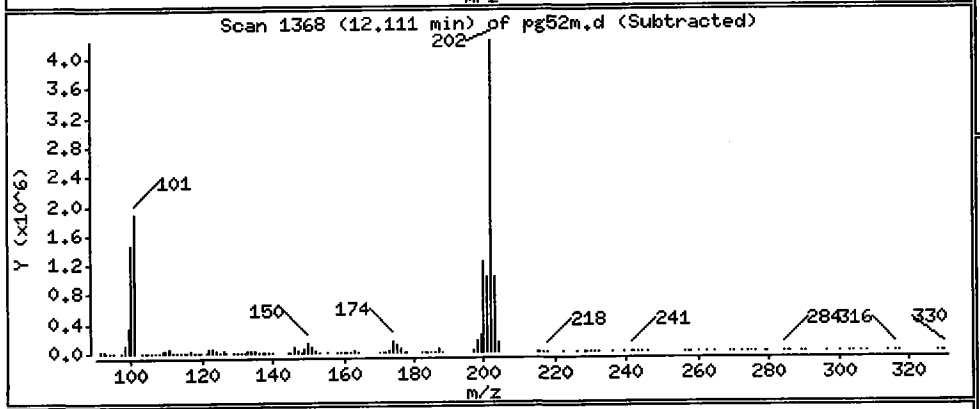
Column diameter: 0.25

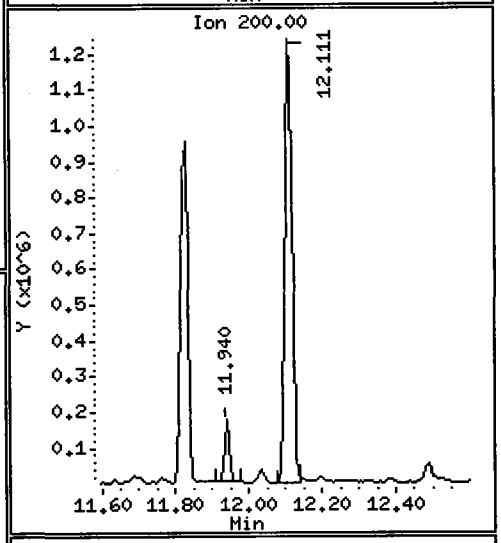
20 Pyrene

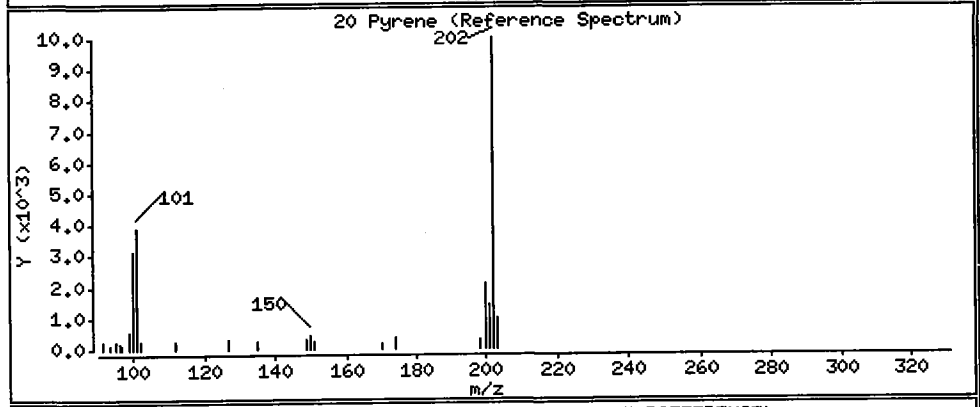
Concentration: 1561 ug/kg

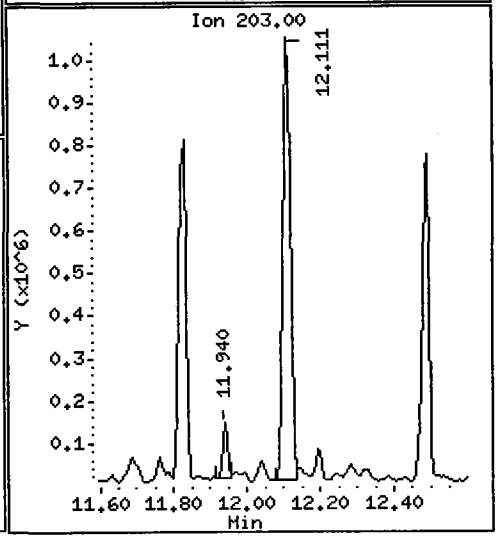


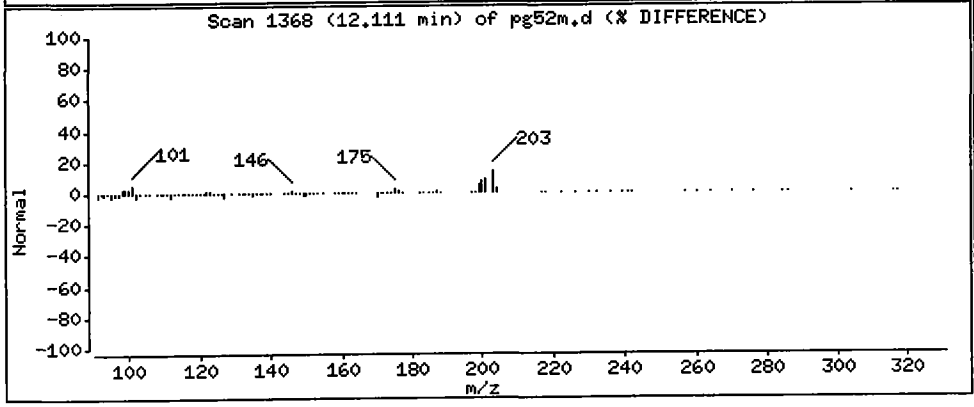












Data File: /chem3/nt1.i/20090717.b/pg52m.d

Date : 17-JUL-2009 23:44

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M

Volume Injected (uL): 1.0

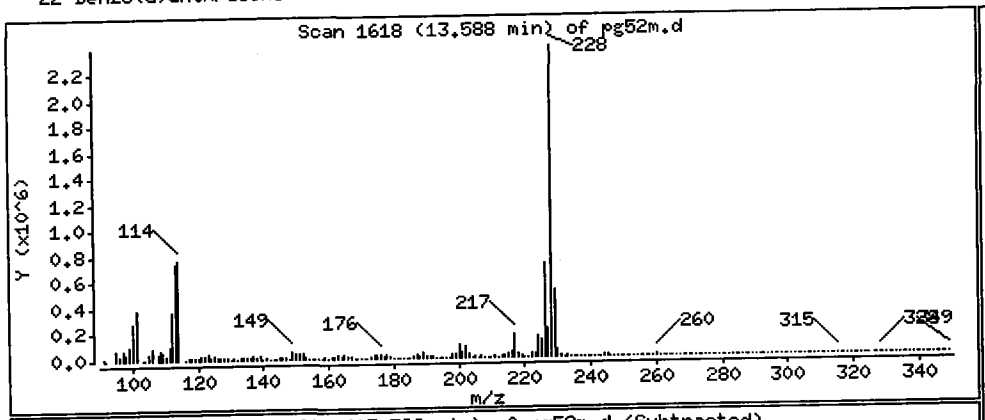
Operator: VTS

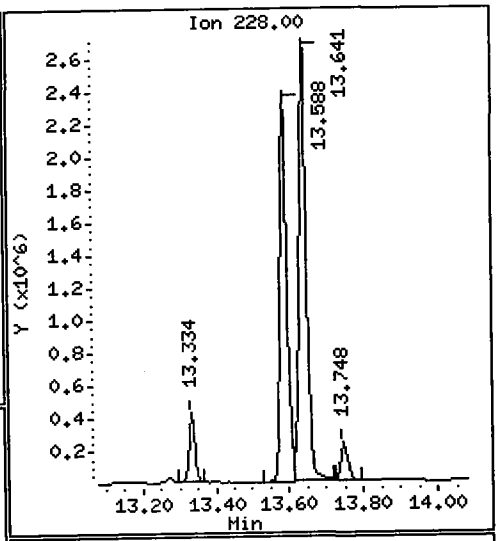
Column phase: ZB-5msi

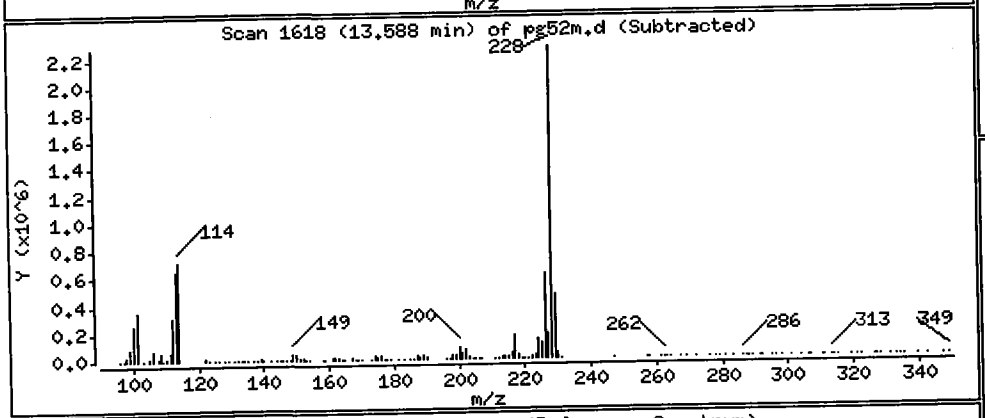
Column diameter: 0.25

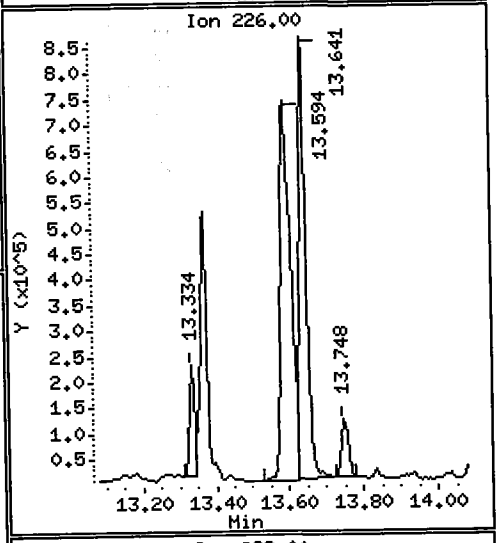
22 Benzo(a)anthracene

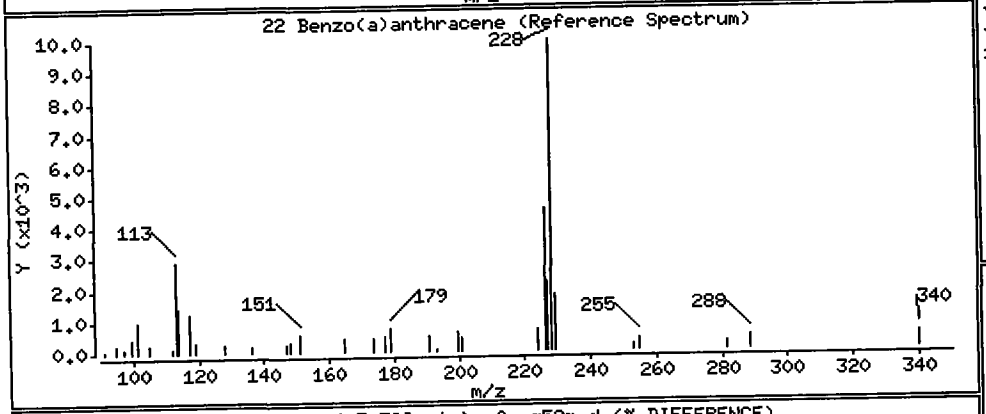
Concentration: 1113 ug/kg

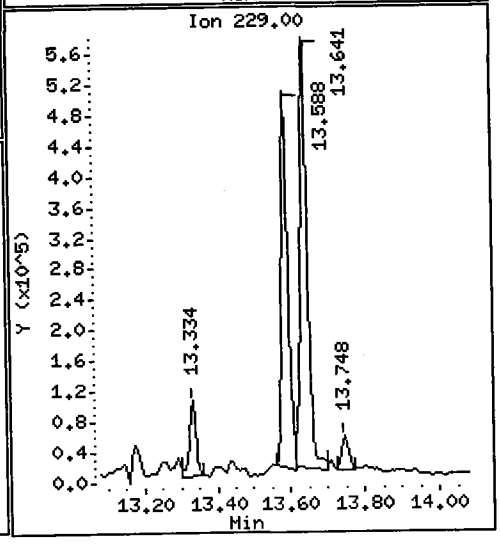


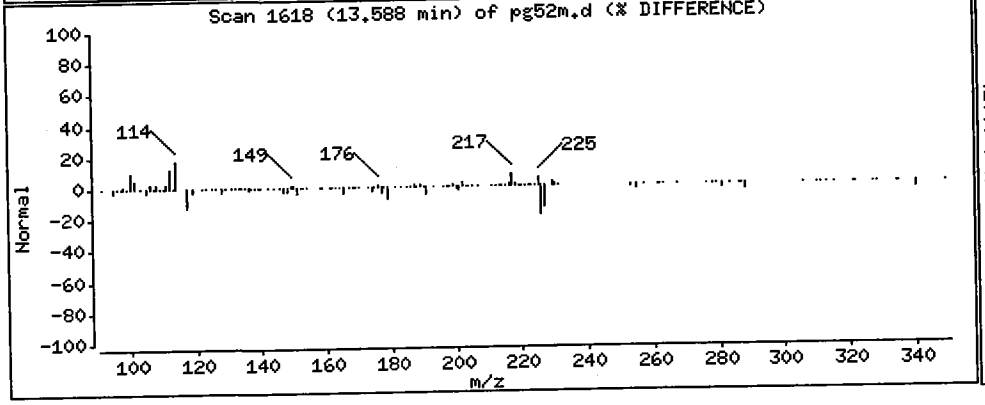












Data File: /chem3/nt1.i/20090717.b/pg52m.d

Date : 17-JUL-2009 23:44

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M

Volume Injected (uL): 1.0

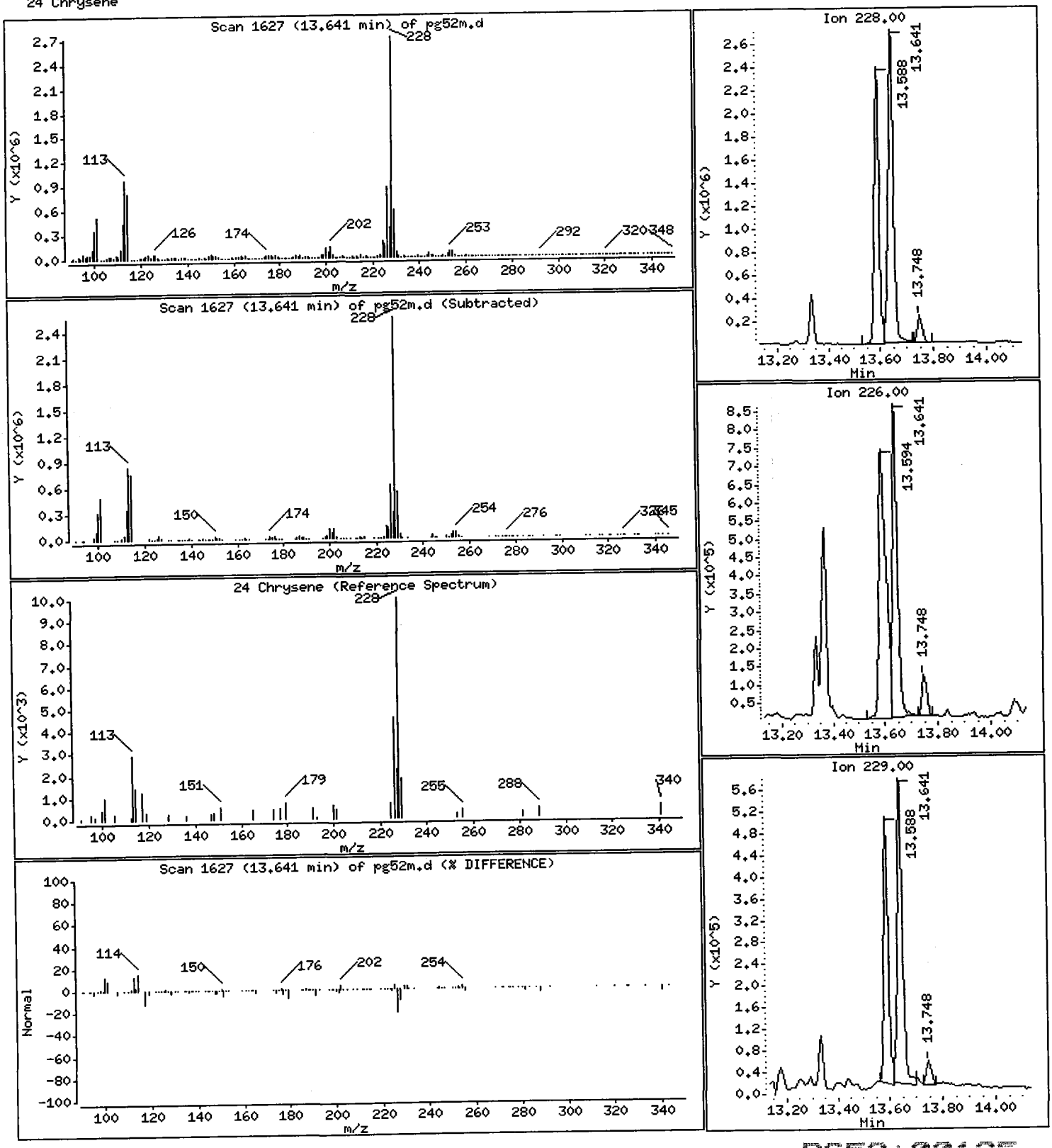
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

24 Chrysene

Concentration: 1284 ug/kg



Data File: /chem3/nt1.i/20090717.b/pg52m.d

Date : 17-JUL-2009 23:44

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M

Volume Injected (uL): 1.0

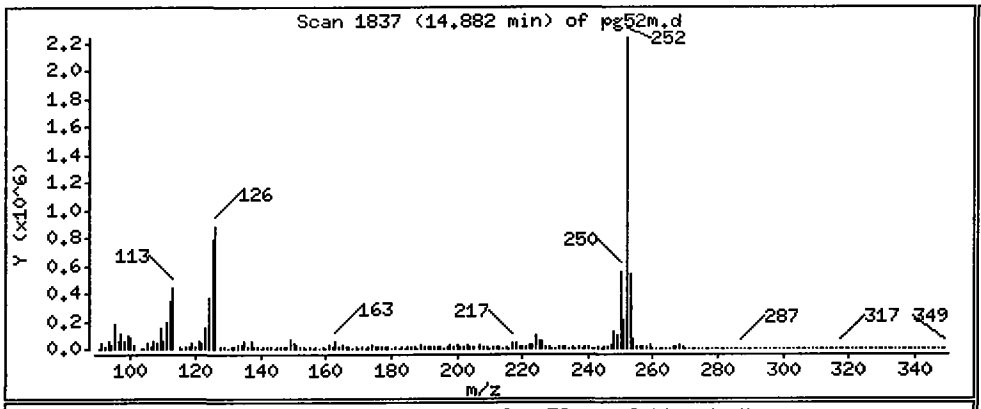
Operator: VTS

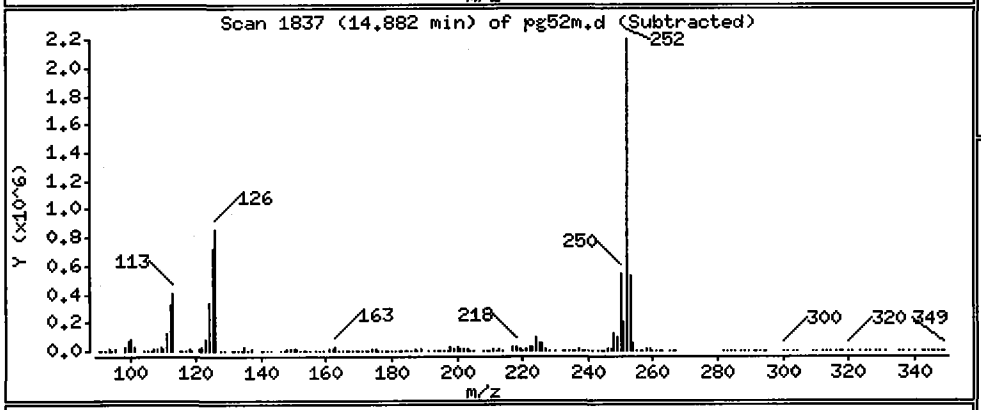
Column phase: ZB-5msi

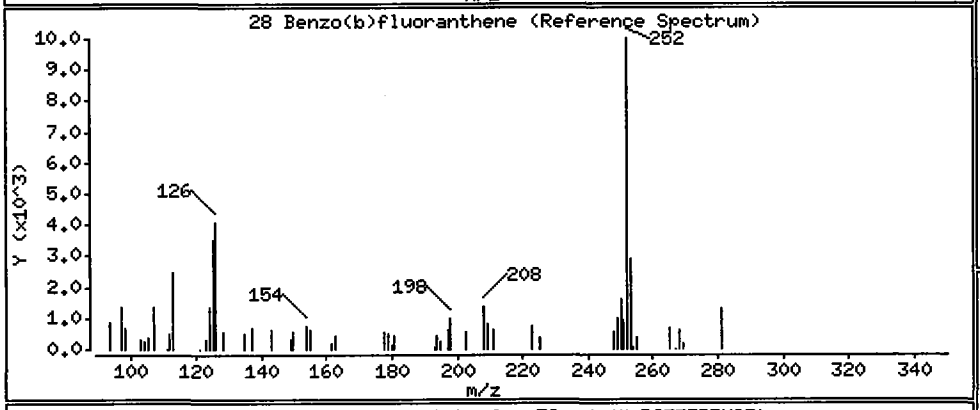
Column diameter: 0.25

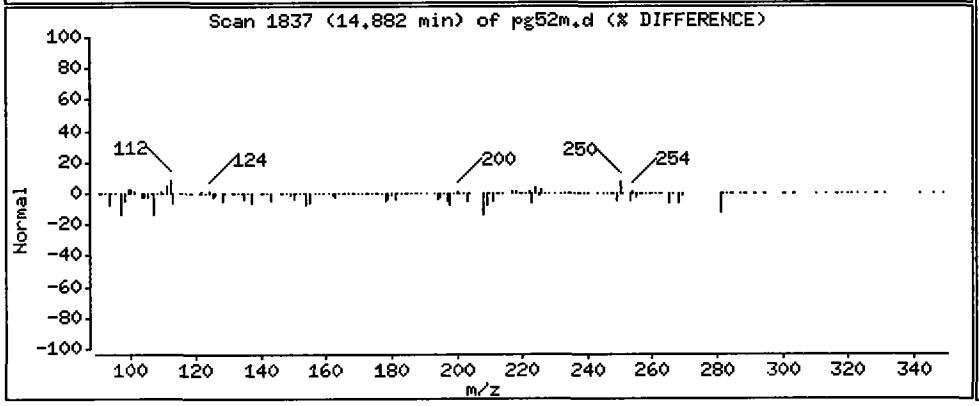
28 Benzo(b)fluoranthene

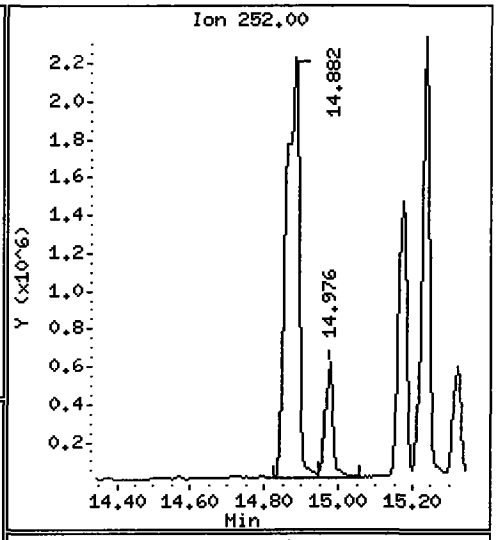
Concentration: 1925 ug/kg

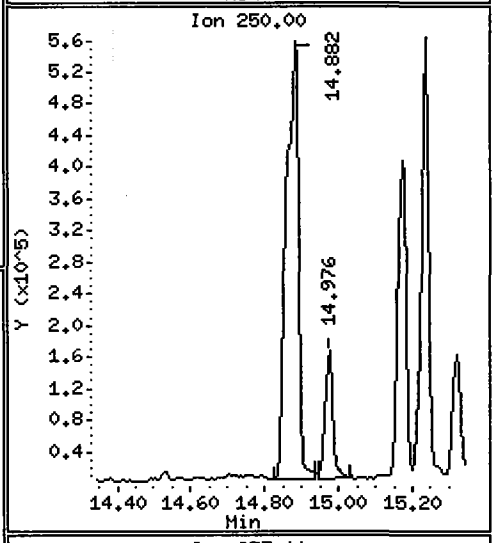


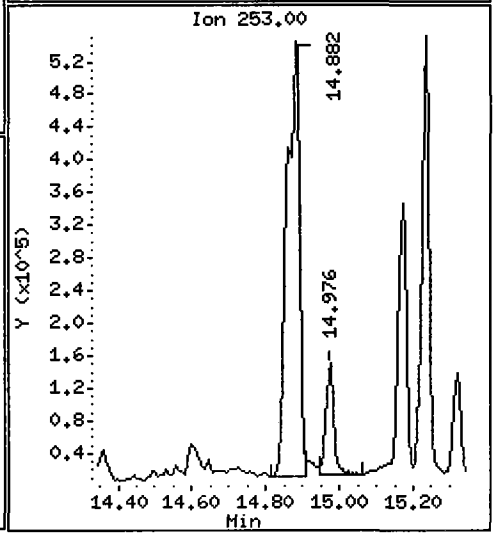












Data File: /chem3/nt1.i/20090717.b/pg52m.d

Date : 17-JUL-2009 23:44

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M

Volume Injected (uL): 1.0

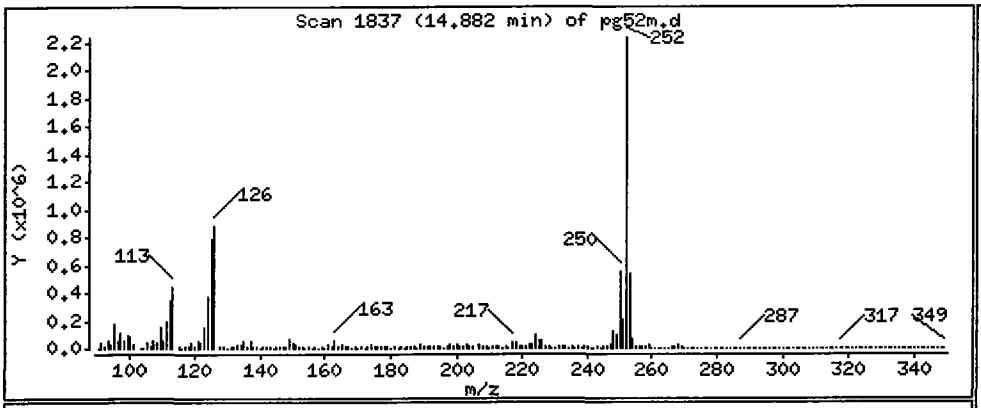
Operator: VTS

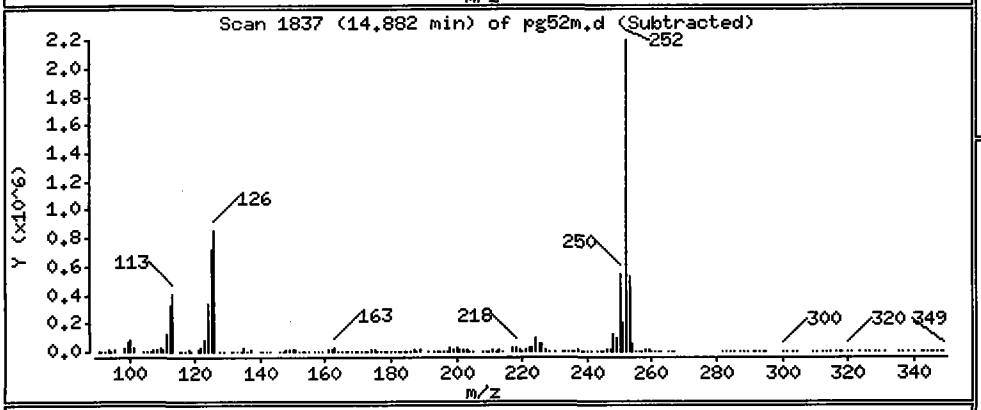
Column phase: ZB-5msi

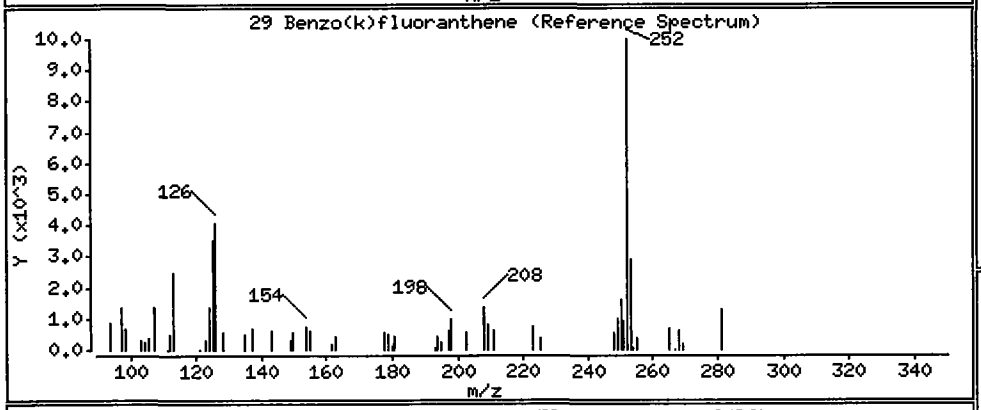
Column diameter: 0.25

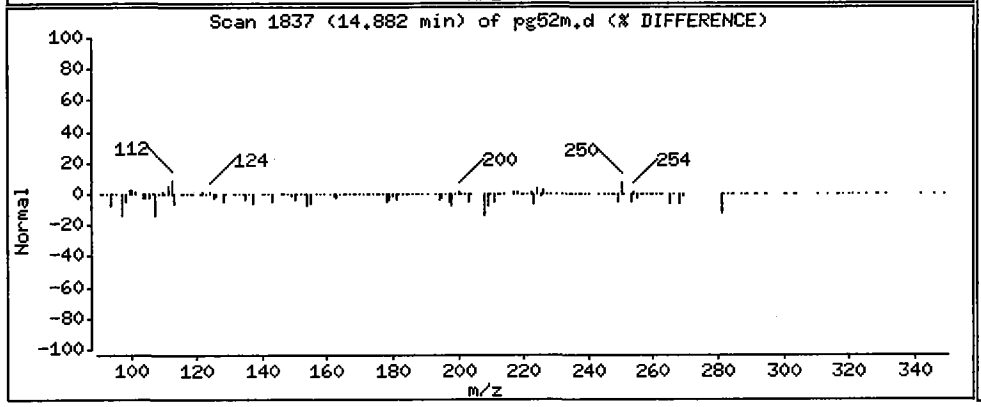
29 Benzo(k)fluoranthene

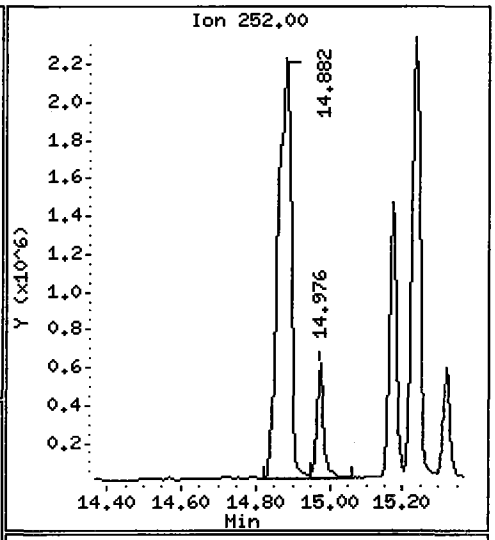
Concentration: 1795 ug/kg

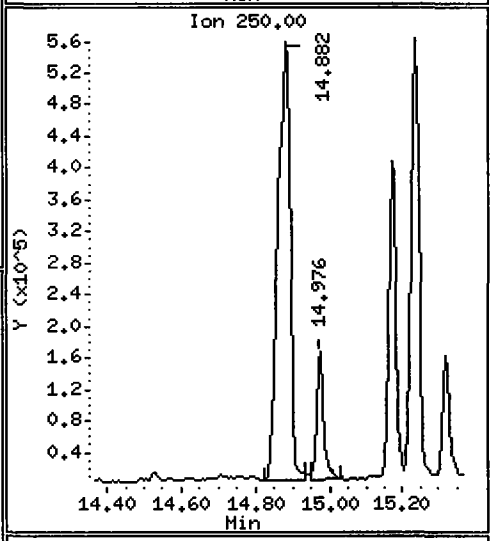


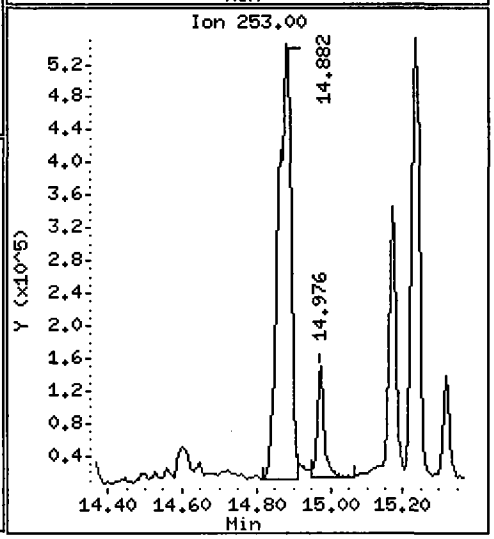












Data File: /chem3/nt1.i/20090717.b/pg52m.d

Date : 17-JUL-2009 23:44

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M

Volume Injected (uL): 1.0

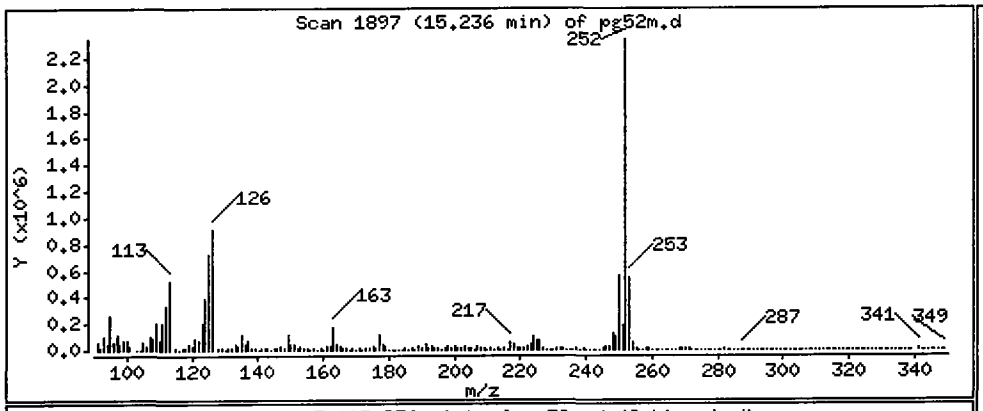
Operator: VTS

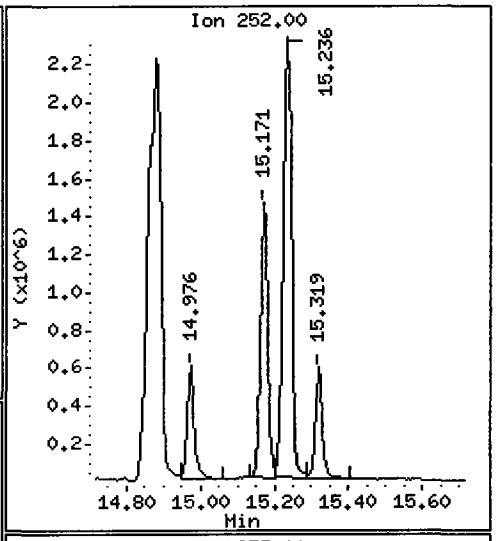
Column phase: ZB-5msi

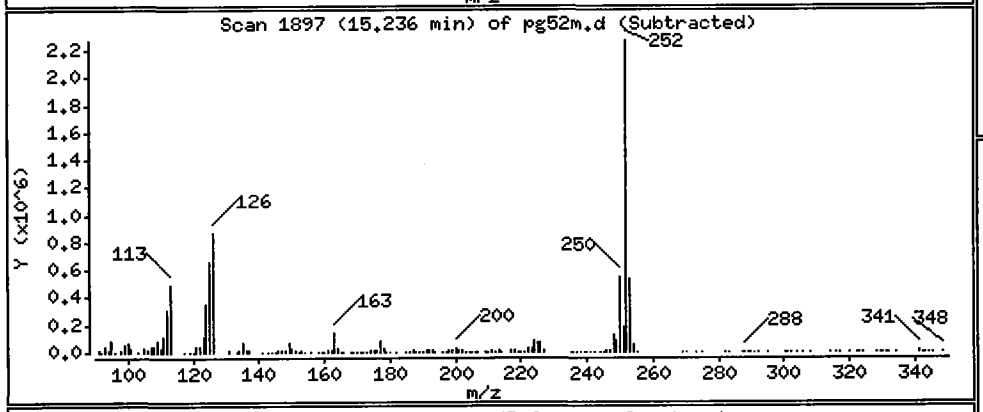
Column diameter: 0.25

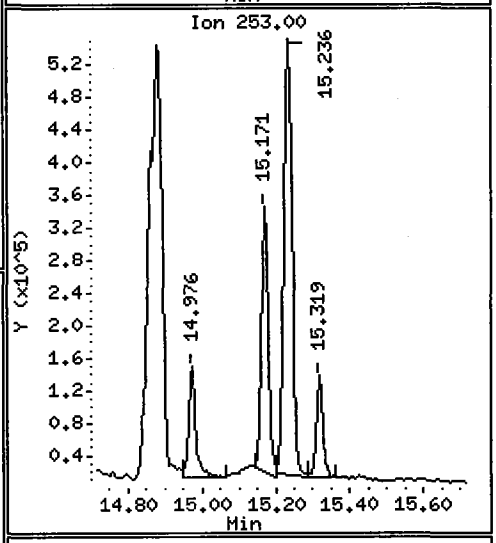
30 Benzo(a)pyrene

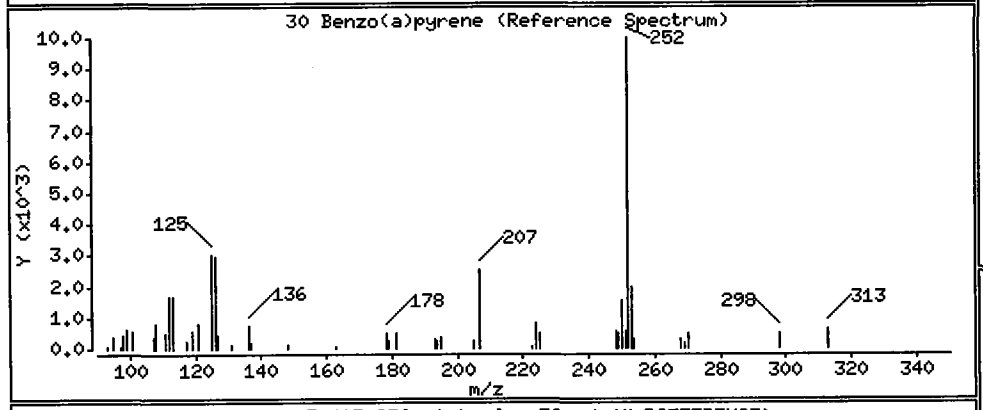
Concentration: 1468 ug/kg

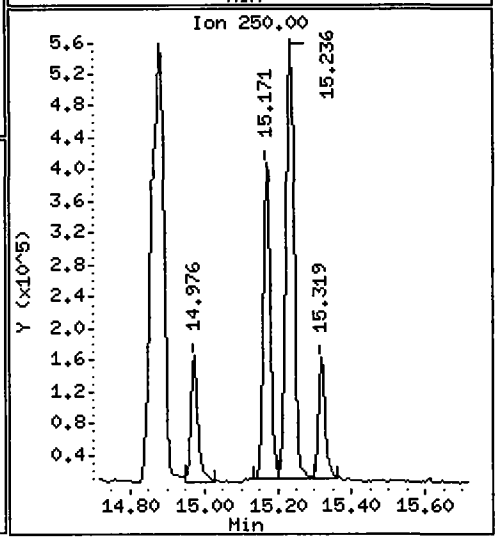


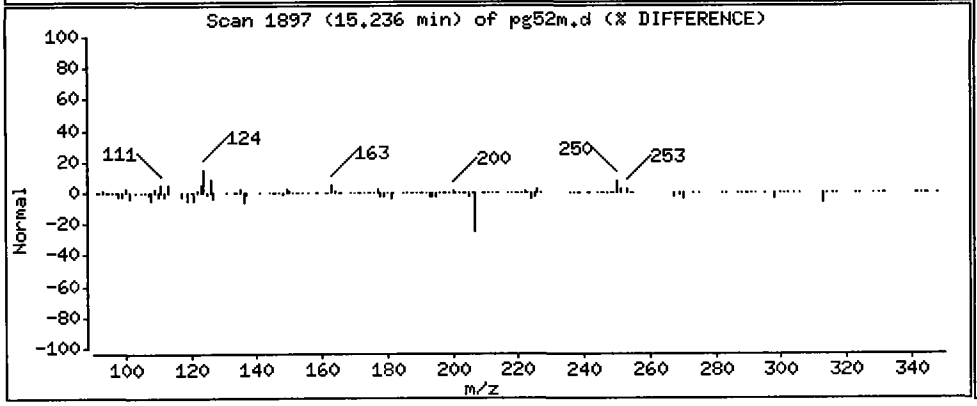












Data File: /chem3/nt1.i/20090717.b/pg52m.d

Date : 17-JUL-2009 23:44

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M

Volume Injected (uL): 1.0

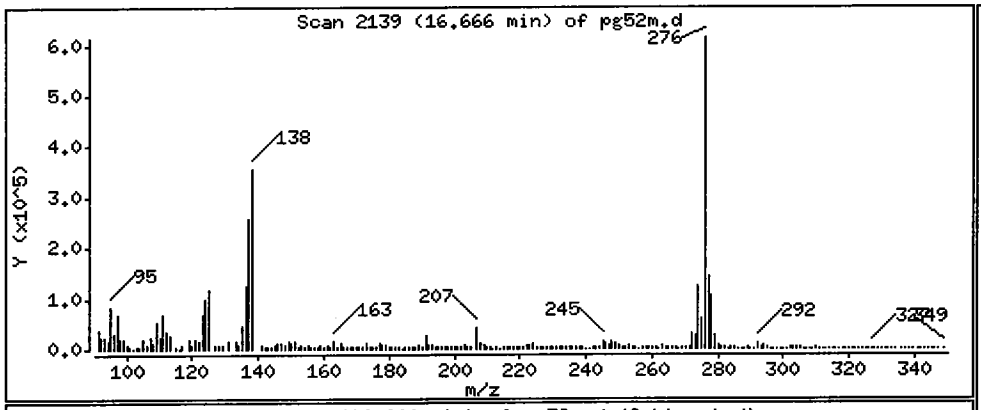
Operator: VTS

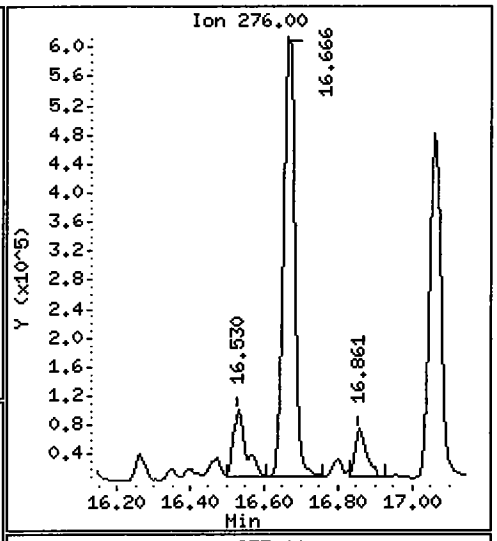
Column phase: ZB-5msi

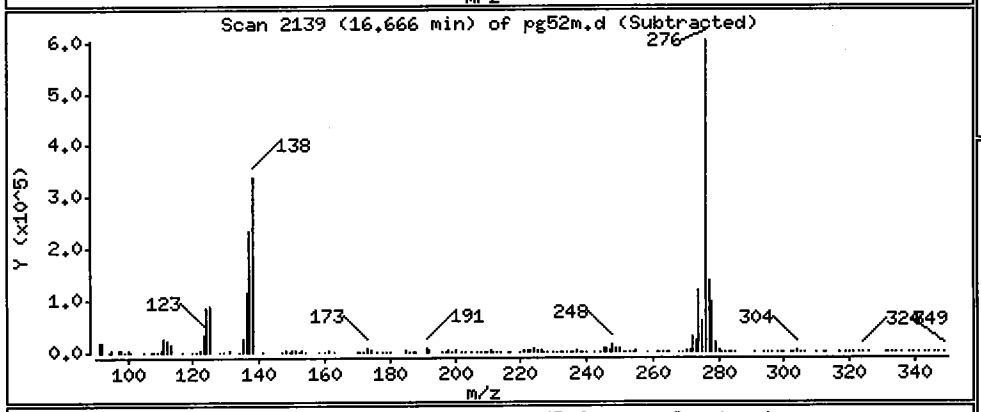
Column diameter: 0.25

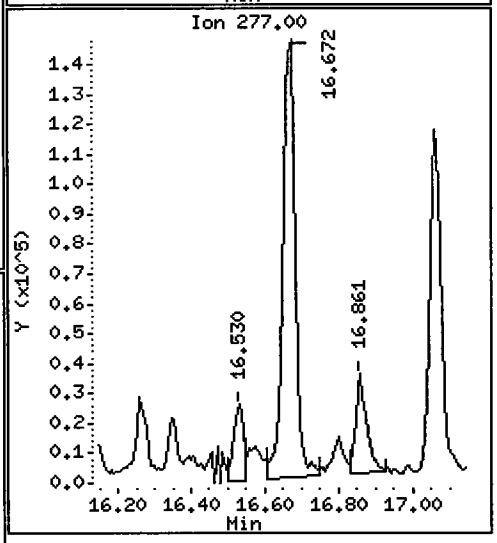
33 Indeno(1,2,3-cd)pyrene

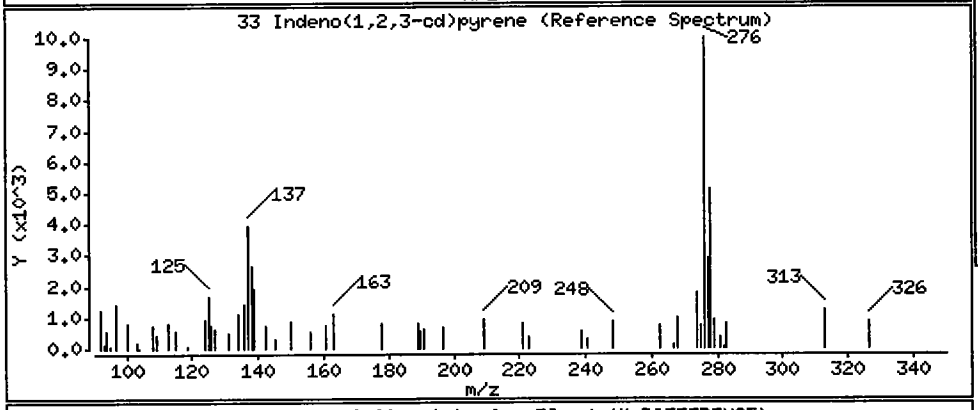
Concentration: 517.2 ug/kg

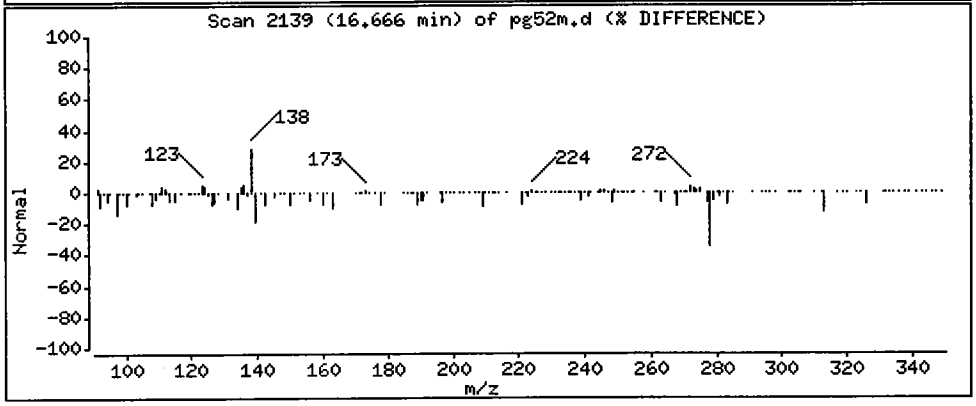












Data File: /chem3/nt1.i/20090717.b/pg52m.d

Date : 17-JUL-2009 23:44

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M

Volume Injected (uL): 1.0

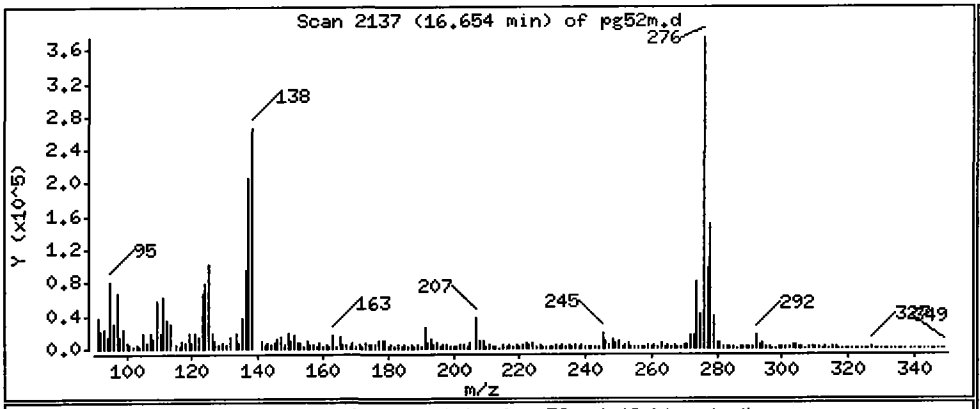
Operator: VTS

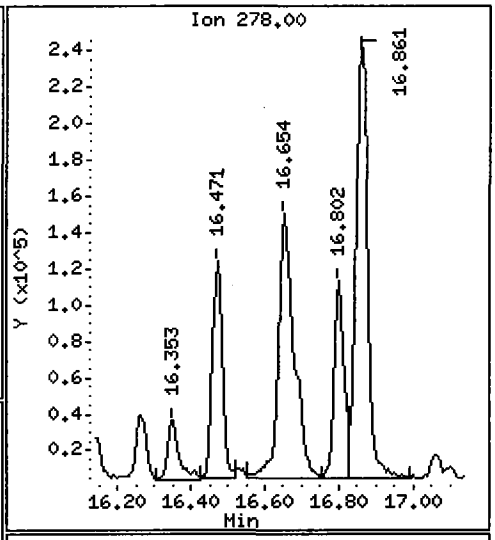
Column phase: ZB-5msi

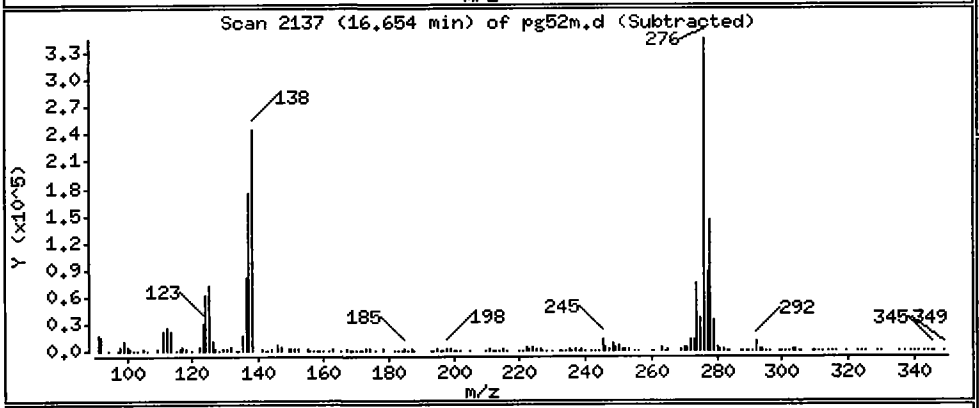
Column diameter: 0.25

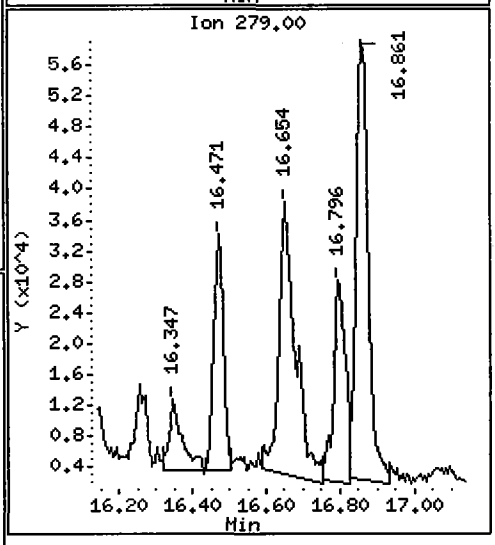
34 Dibenz(a,h)anthracene

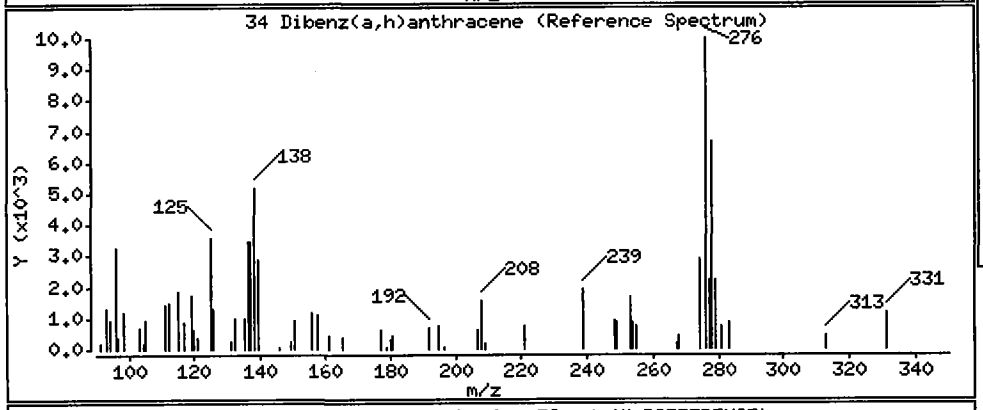
Concentration: 236.2 ug/kg

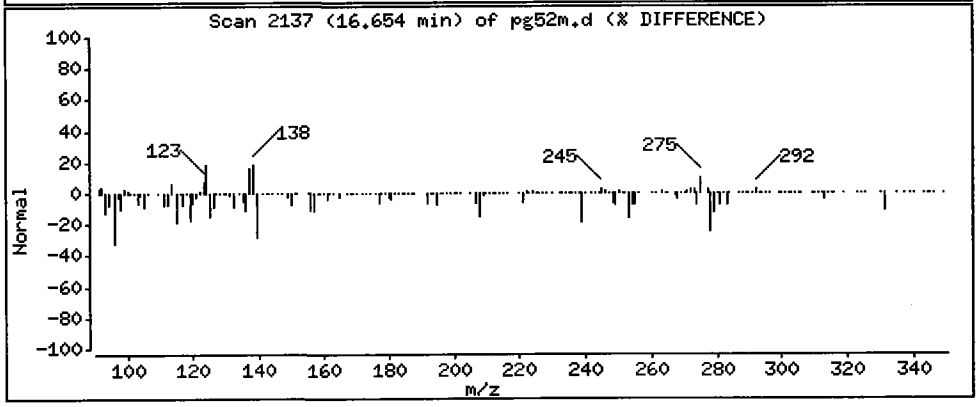












Data File: /chem3/nt1.i/20090717.b/pg52m.d

Date : 17-JUL-2009 23:44

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M

Volume Injected (uL): 1.0

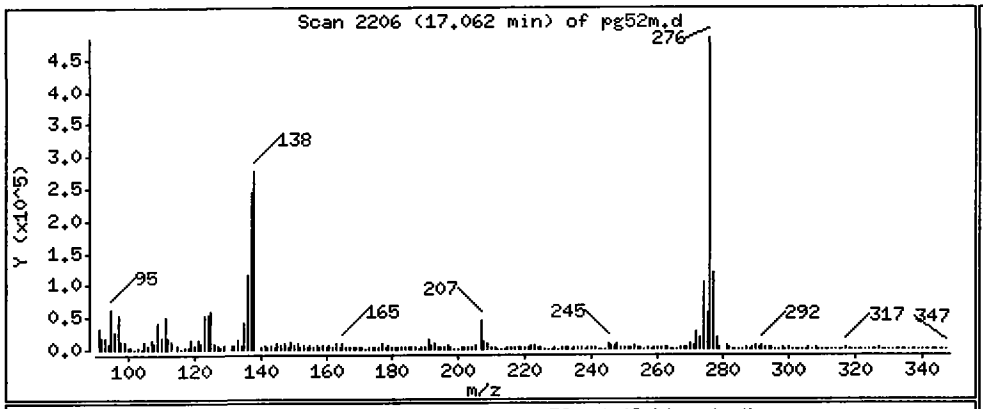
Operator: VTS

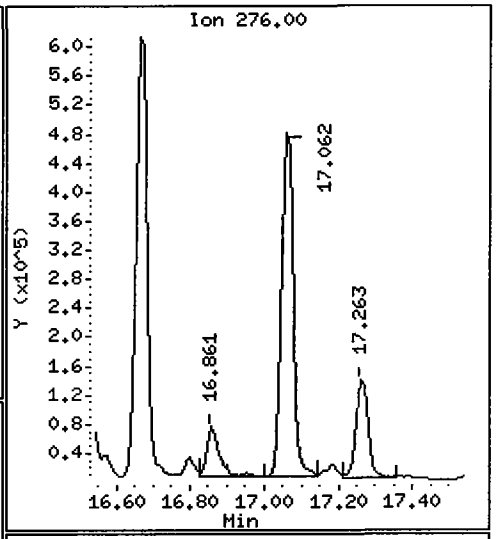
Column phase: ZB-5msi

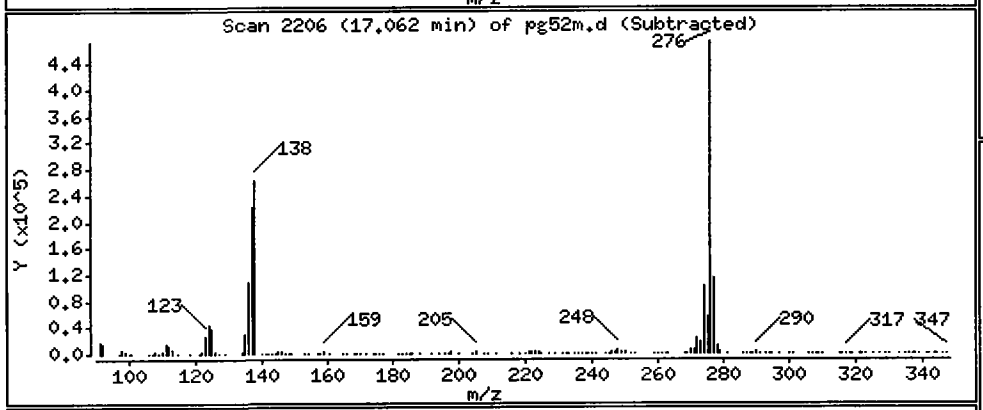
Column diameter: 0.25

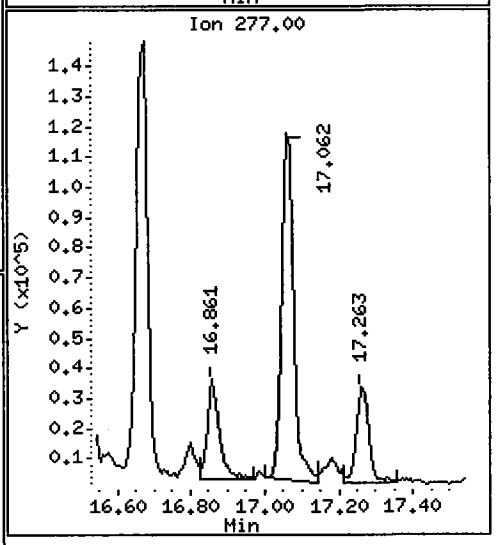
35 Benzo(g,h,i)perylene

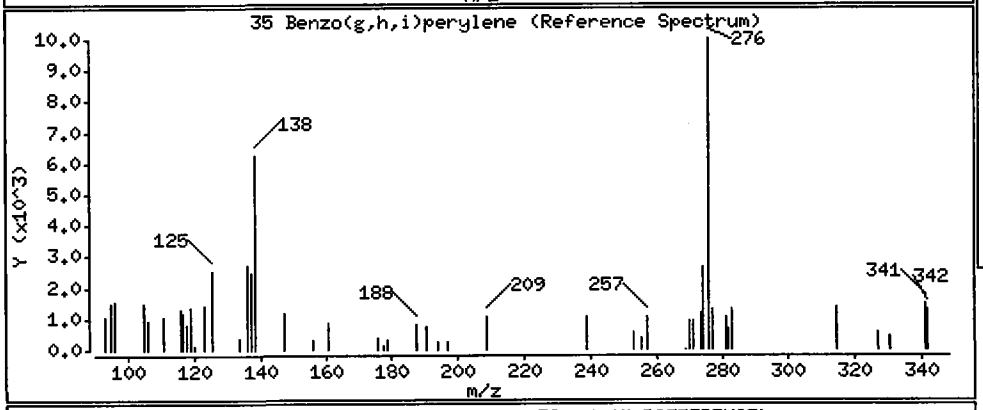
Concentration: 456.0 ug/kg

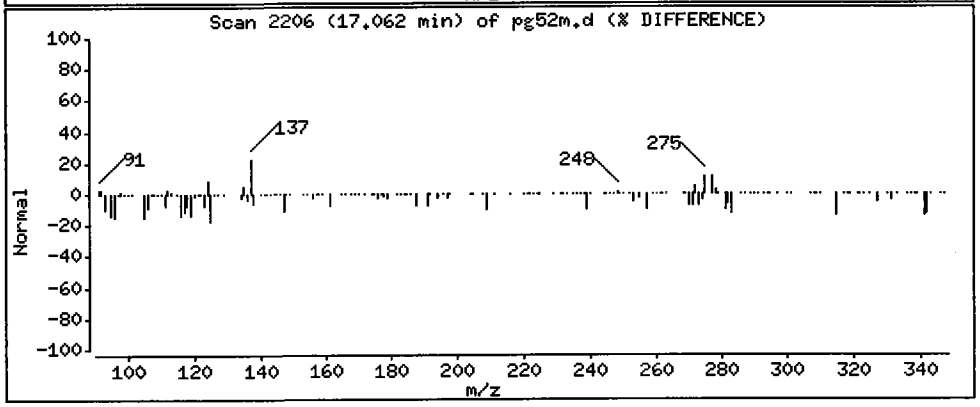












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: AHA-01-1NE(0-3)
DILUTION

Lab Sample ID: PG52M
LIMS ID: 09-16498
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 07/14/09
Date Analyzed: 07/18/09 13:02
Instrument/Analyst: NT1/YZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 11.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 17.0%

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**46**	**73**
91-57-6	2-Methylnaphthalene	46	< 46 U
90-12-0	1-Methylnaphthalene	46	< 46 U
208-96-8	**Acenaphthylene**	**46**	**240**
83-32-9	Acenaphthene	46	< 46 U
86-73-7	**Fluorene**	**46**	**50**
85-01-8	**Phenanthrene**	**46**	**860**
120-12-7	**Anthracene**	**46**	**130**
206-44-0	**Fluoranthene**	**46**	**1,700**
129-00-0	**Pyrene**	**46**	**2,000**
56-55-3	**Benzo(a)anthracene**	**46**	**1,100**
218-01-9	**Chrysene**	**46**	**1,200**
205-99-2	**Benzo(b)fluoranthene**	**46**	**870**
207-08-9	**Benzo(k)fluoranthene**	**46**	**1,000**
50-32-8	**Benzo(a)pyrene**	**46**	**1,500**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**46**	**730**
53-70-3	**Dibenz(a,h)anthracene**	**46**	**340**
191-24-2	**Benzo(g,h,i)perylene**	**46**	**770**
132-64-9	Dibenzofuran	46	< 46 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	83.3%
d14-Dibenzo(a,h)anthracen	123%

YZ 7/18/09

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20090718.b/pg52m10.d
Lab Smp Id: PG52M Client Smp ID: AHA-01-1NE(0-3)
Inj Date : 18-JUL-2009 13:02
Operator : VTS Inst ID: nt1.i
Smp Info : PG52M,10
Misc Info : 09-16498
Comment : 1ul Injection
Method : /chem3/nt1.i/20090718.b/simpna.m
Meth Date : 18-Jul-2009 11:36 yev Quant Type: ISTD
Cal Date : 11-JUL-2009 14:37 Cal File: ic0711f.d
Als bottle: 5
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	13.30000	Weight of sample extracted (g)
M	17.00000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
*	1 Naphthalene-d8	136	6.452	6.452	(1.000)	525552	2.00000	
	2 Naphthalene	128	6.476	6.476	(1.004)	37002	0.16016	72.54
$	3 2-Methylnaphthalene-d10	152	7.196	7.196	(1.115)	28681	0.24708	111.9
	4 2-Methylnaphthalene	142	7.232	7.232	(1.121)	11932	0.09297 J	42.11
	5 1-Methylnaphthalene	142	7.362	7.362	(1.141)	6845	0.05397 J	24.44
	7 Acenaphthylene	152	8.307	8.301	(0.979)	98265	0.53152	240.7
*	8 Acenaphthene-d10	164	8.484	8.484	(1.000)	239145	2.00000	
	9 Acenaphthene	153	Compound Not Detected.					
	10 Dibenzofuran	168	Compound Not Detected.					
	11 Fluorene	166	9.128	9.128	(1.076)	13358	0.11165	50.57
*	15 Phenanthrene-d10	188	10.280	10.280	(1.000)	359779	2.00000	
	16 Phenanthrene	178	10.304	10.304	(1.002)	315942	1.89378	857.8
	17 Anthracene	178	10.363	10.363	(1.008)	47769	0.28714	130.1
	19 Fluoranthene	202	11.793	11.787	(1.147)	581543	3.78422	1714

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.076	12.070	(0.890)	807502	4.50275	2039
	22 Benzo(a)anthracene	228	13.553	13.553	(0.999)	301638	2.39503	1085
*	23 Chrysene-d12	240	13.571	13.571	(1.000)	267783	2.00000	
	24 Chrysene	228	13.601	13.607	(1.002)	361147	2.74026	1241
	28 Benzo(b)fluoranthene	252	14.824	14.818	(0.972)	245384	1.91332	866.6
	29 Benzo(k)fluoranthene	252	14.841	14.841	(0.973)	318481	2.31532	1049
	30 Benzo(a)pyrene	252	15.184	15.184	(0.996)	354403	3.28531	1488
*	31 Perylene-d12	264	15.249	15.243	(1.000)	256409	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	16.602	16.602	(1.089)	176052	1.60211	725.7
$	32 Dibenz(a,h)anthrancene-d14	292	16.555	16.549	(1.086)	23383	0.36922	167.2(R)
	34 Dibenz(a,h)anthracene	278	16.590	16.596	(1.088)	61797	0.74395	337.0
	35 Benzo(g,h,i)perylene	276	16.992	16.992	(1.114)	174635	1.69914	769.6

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: pg52m10.d
Lab Smp Id: PG52M
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20090718.b/simpna.m
Misc Info: 09-16498

Calibration Date: 18-JUL-2009
Calibration Time: 10:54
Client Smp ID: AHA-01-1NE(0-3)
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	463169	231584	926338	525552	13.47
8 Acenaphthene-d10	213444	106722	426888	239145	12.04
15 Phenanthrene-d10	326462	163231	652924	359779	10.21
23 Chrysene-d12	224038	112019	448076	267783	19.53
31 Perylene-d12	206230	103115	412460	256409	24.33

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.45	5.95	6.95	6.45	0.00
8 Acenaphthene-d10	8.48	7.98	8.98	8.48	0.00
15 Phenanthrene-d10	10.28	9.78	10.78	10.28	0.00
23 Chrysene-d12	13.57	13.07	14.07	13.57	0.00
31 Perylene-d12	15.24	14.74	15.74	15.25	0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

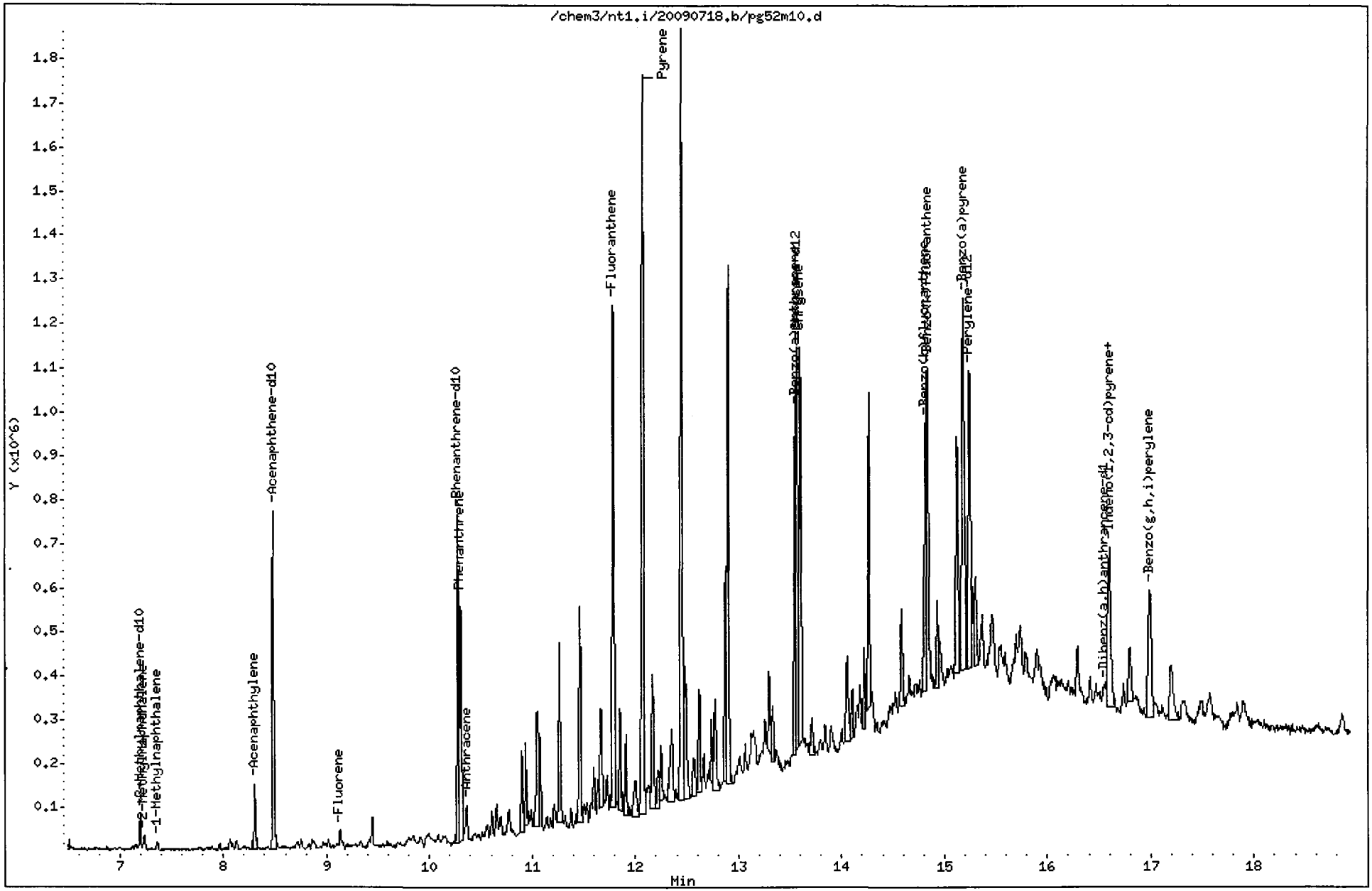
Client Name: Anchor QEA
Sample Matrix: SOLID
Lab Smp Id: PG52M
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: pna1mn.sub
Method File: /chem3/nt1.i/20090718.b/simpna.m
Misc Info: 09-16498

Client SDG: PG52
Fraction: SV
Client Smp ID: AHA-01-1NE(0-3)
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	135.9	111.9	82.36	34-100
$ 32 Dibenz(a,h)anthran	135.9	167.2	123.07*	10-117

Data File: /chem3/nt1.i/20090718.b/pg52m10.d
Date : 18-JUL-2009 13:02
Client ID: AHA-01-1NE(0-3)
Sample Info: PG52M,10
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



PG52:00147

Data File: /chem3/nt1.i/20090718.b/pg52m10.d

Date : 18-JUL-2009 13:02

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M,10

Volume Injected (uL): 1.0

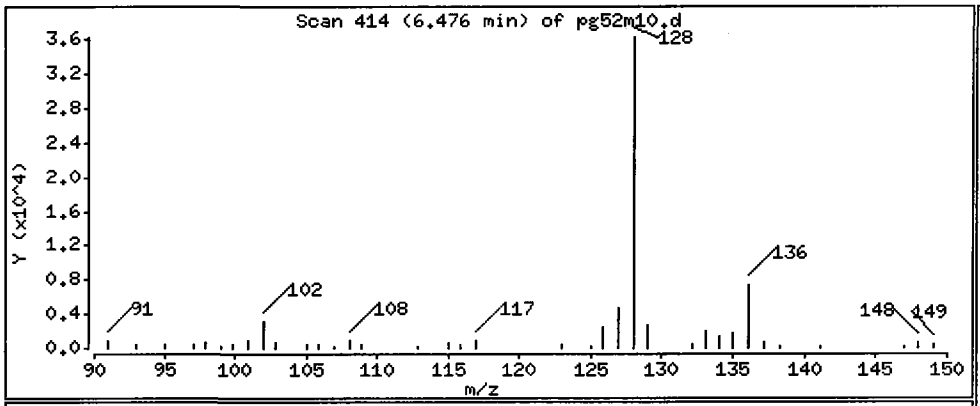
Operator: VTS

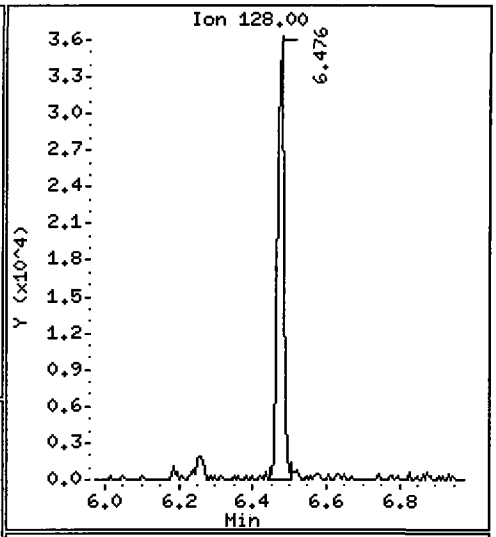
Column phase: ZB-5msi

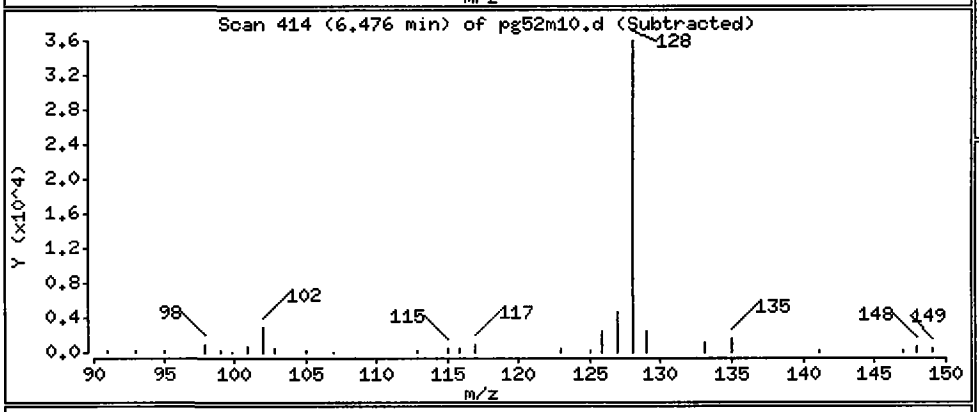
Column diameter: 0.25

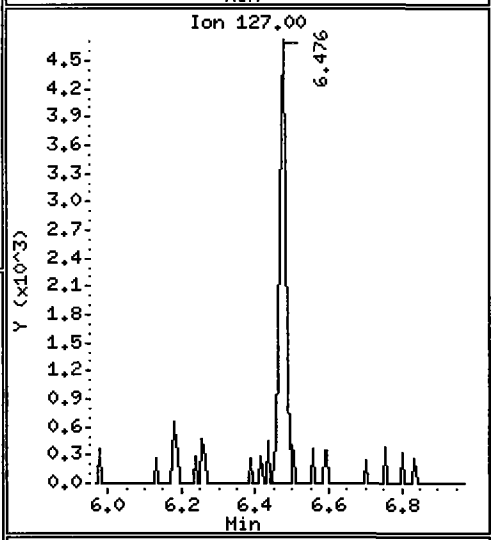
2 Naphthalene

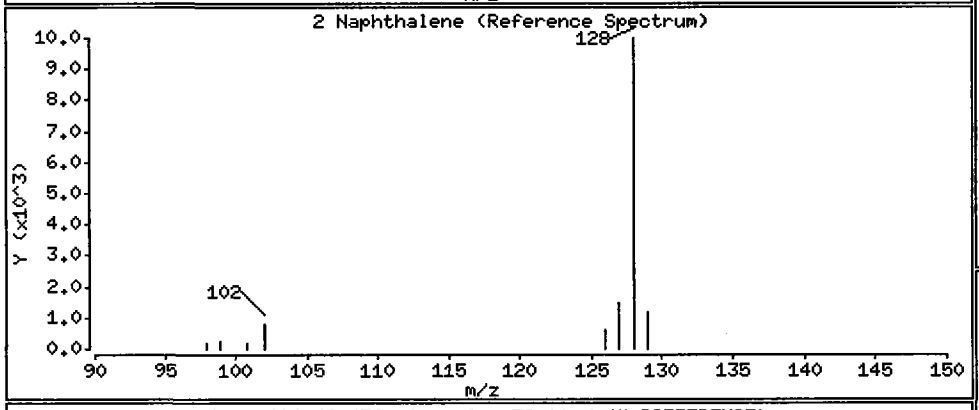
Concentration: 72.54 ug/kg

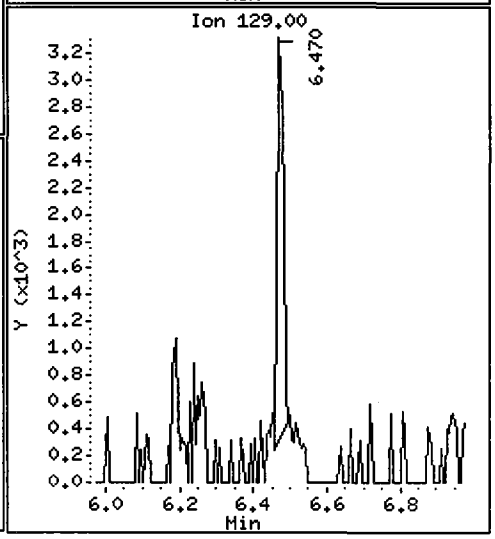


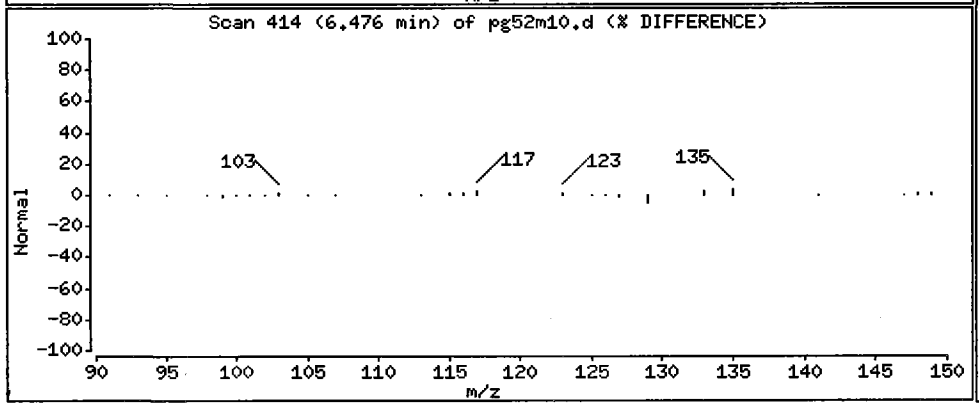












Data File: /chem3/nt1.i/20090718.b/pg52m10.d

Date : 18-JUL-2009 13:02

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M,10

Volume Injected (uL): 1.0

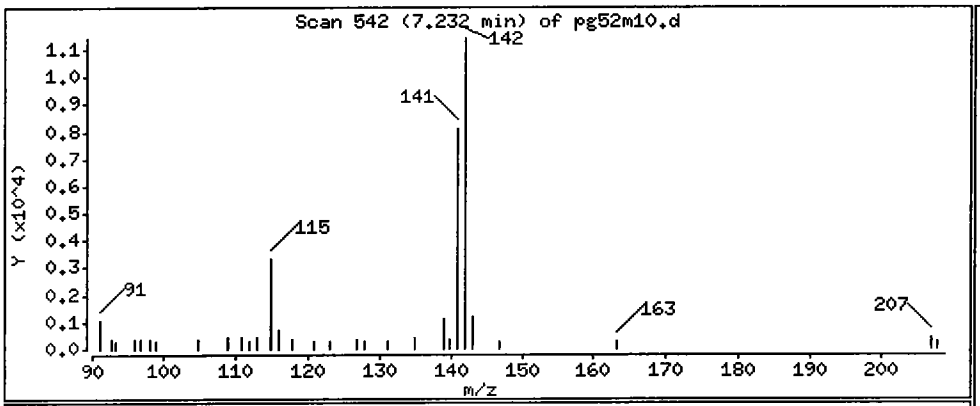
Operator: VTS

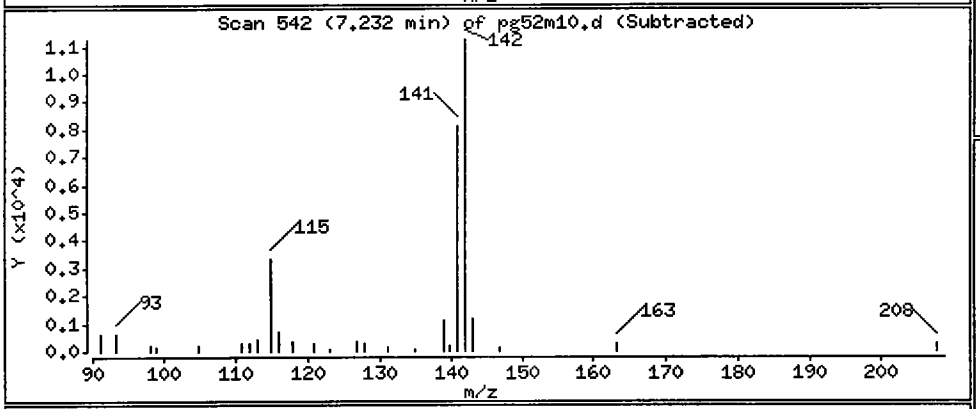
Column phase: ZB-5msi

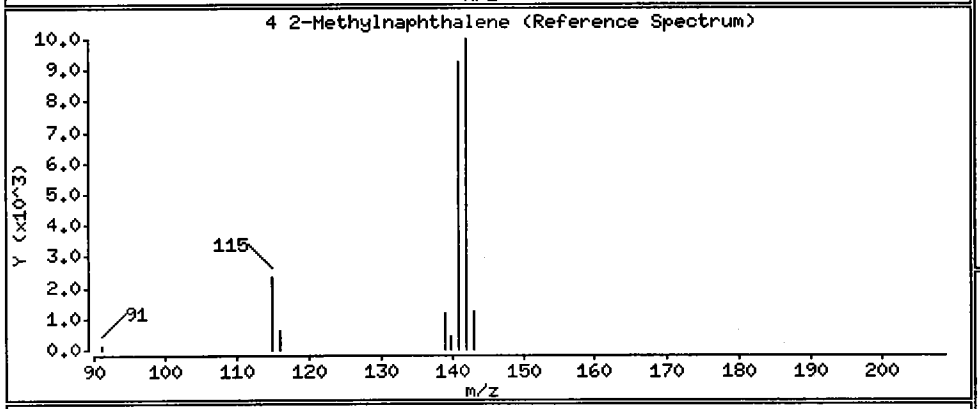
Column diameter: 0.25

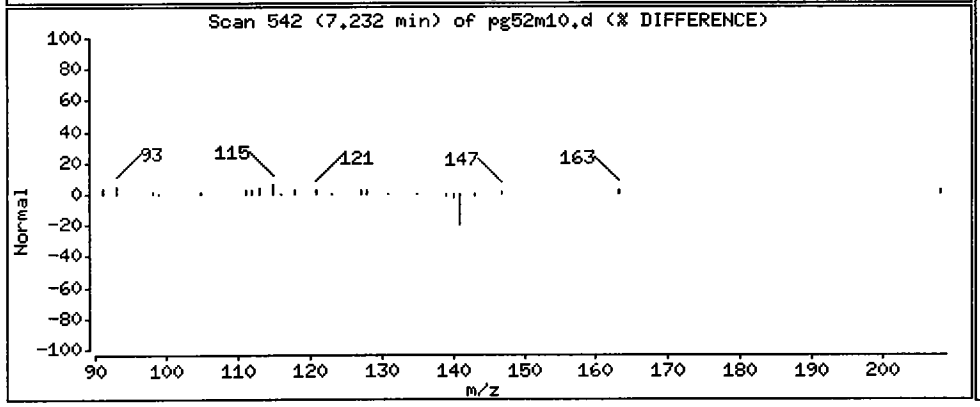
4 2-Methylnaphthalene

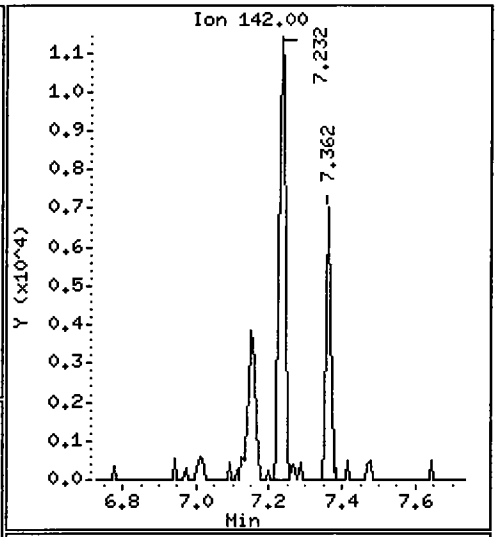
Concentration: 42.11 ug/kg

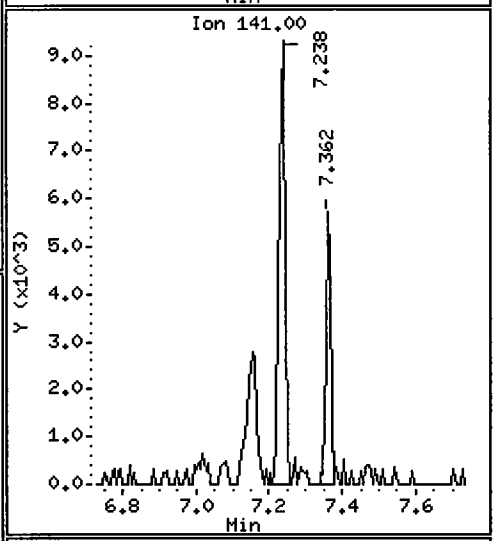


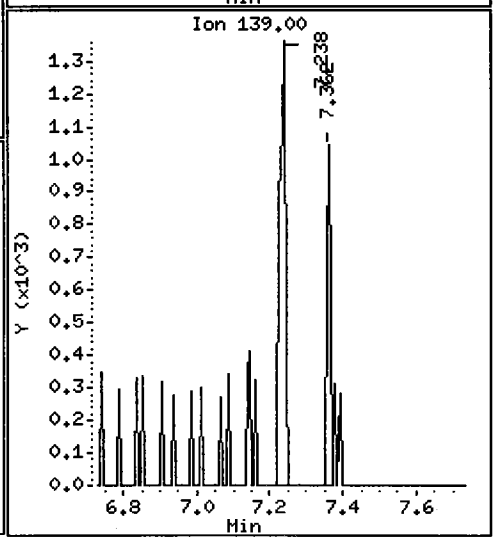












Data File: /chem3/nt1.i/20090718.b/pg52m10.d

Date : 18-JUL-2009 13:02

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M,10

Volume Injected (uL): 1.0

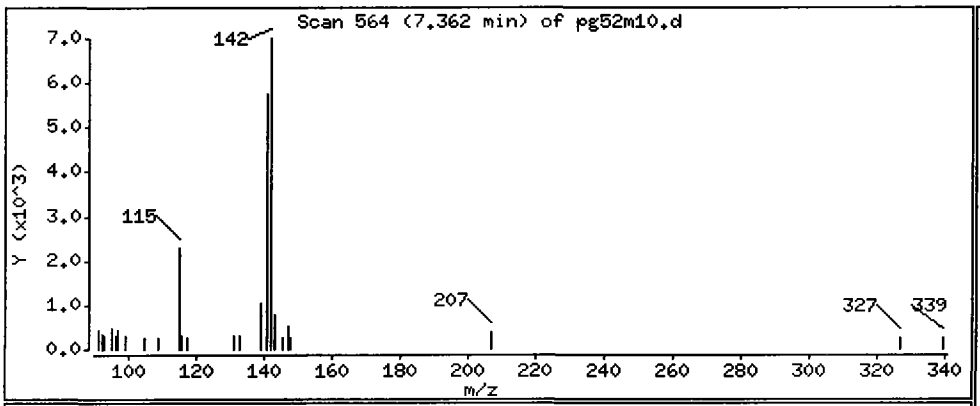
Operator: VTS

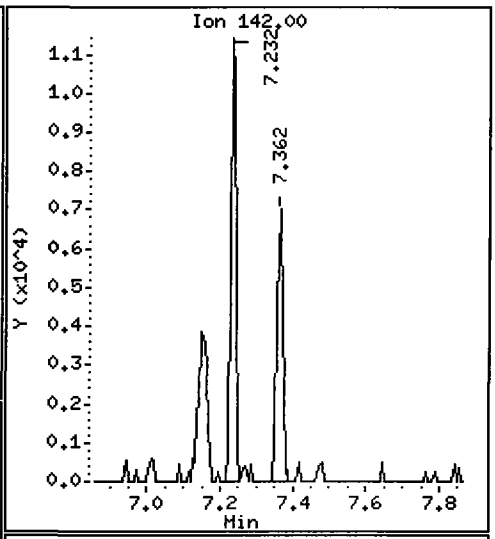
Column phase: ZB-5msi

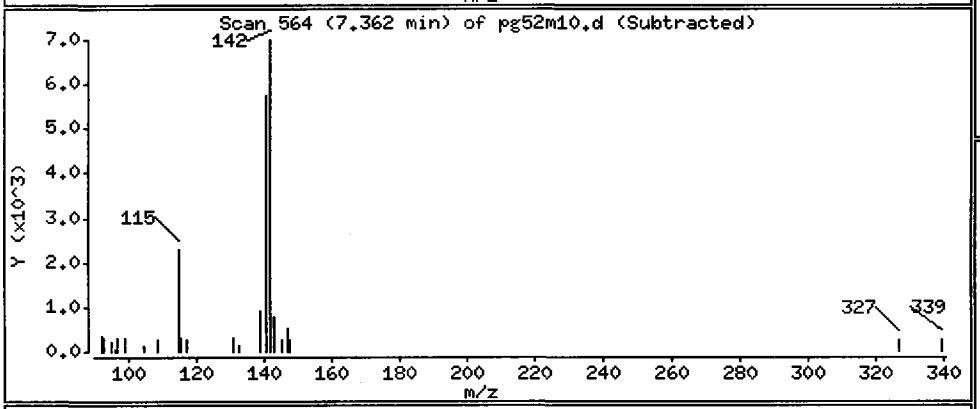
Column diameter: 0.25

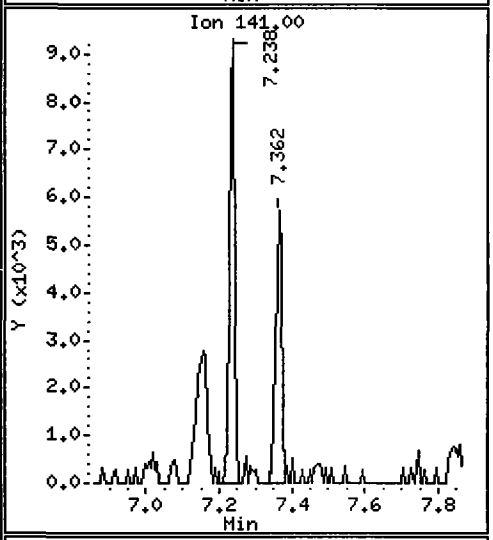
5 1-Methylnaphthalene

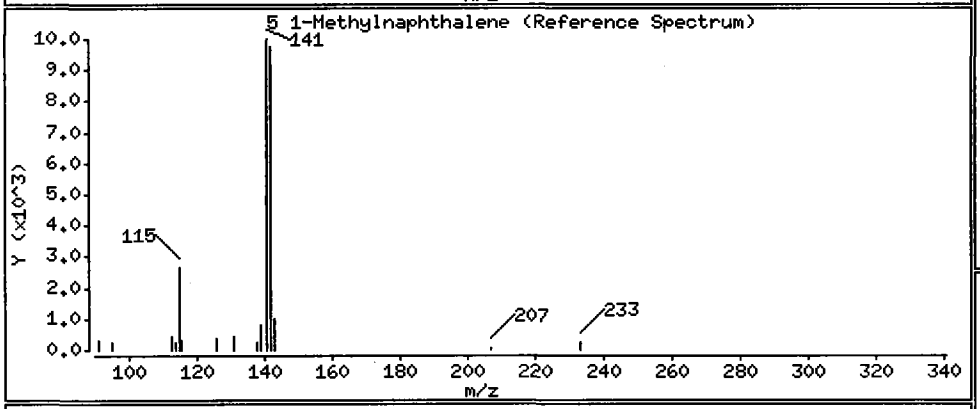
Concentration: 24.44 ug/kg

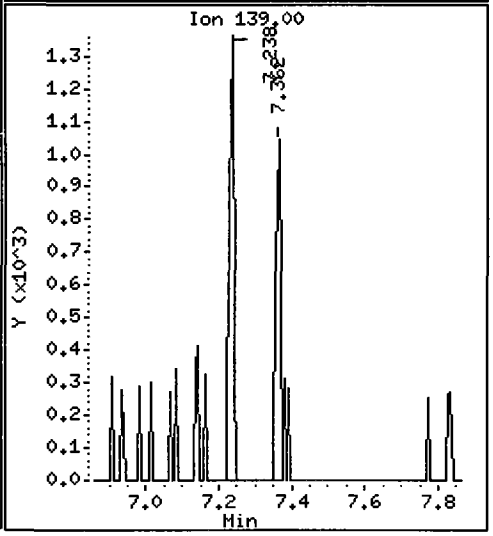


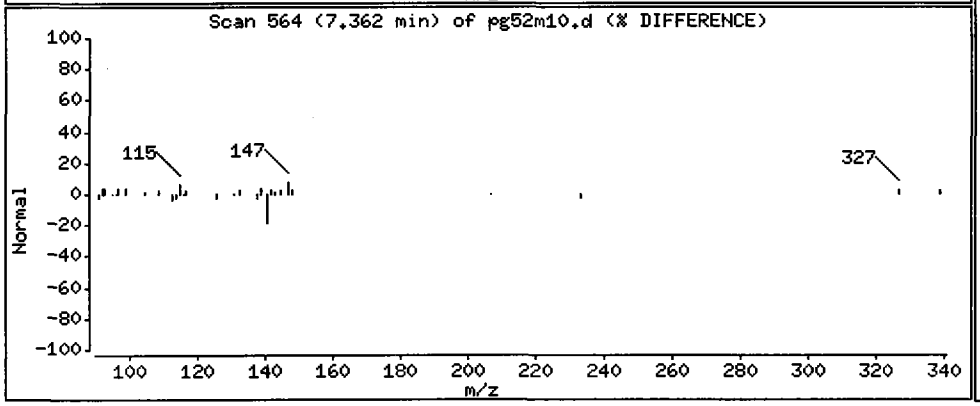












Data File: /chem3/nt1.i/20090718.b/pg52m10.d

Date : 18-JUL-2009 13:02

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M,10

Volume Injected (uL): 1.0

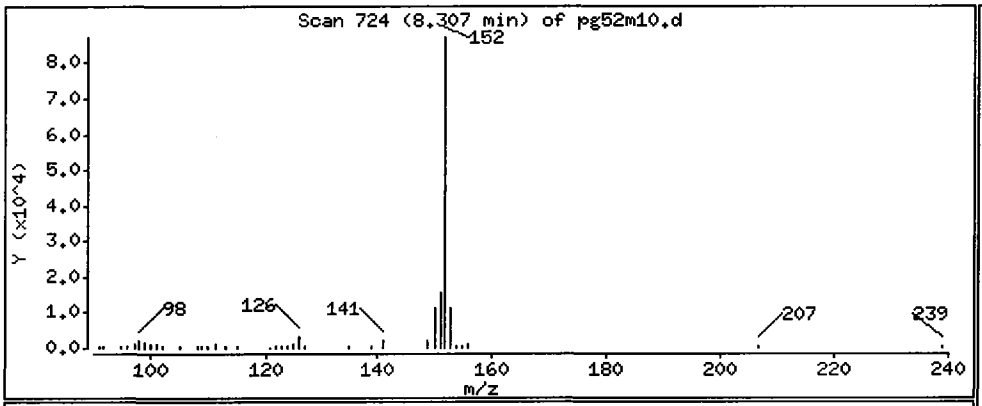
Operator: VTS

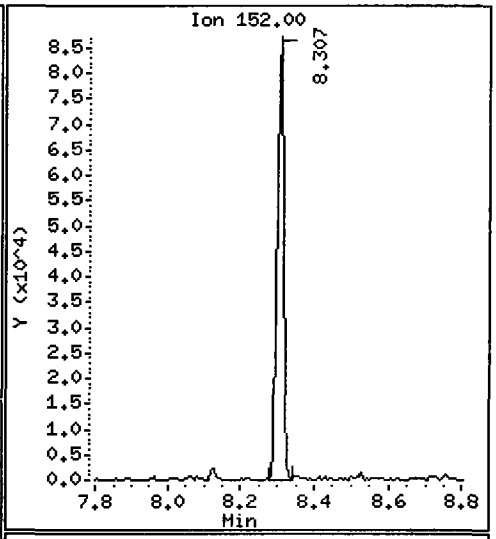
Column phase: ZB-5msi

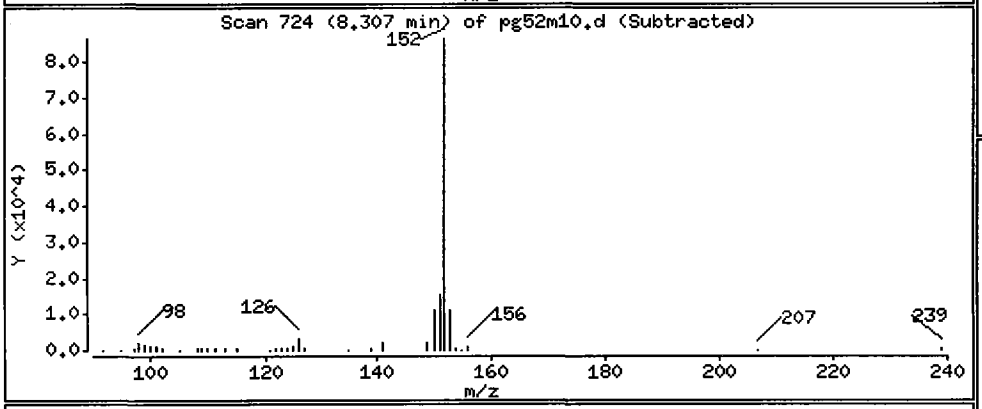
Column diameter: 0.25

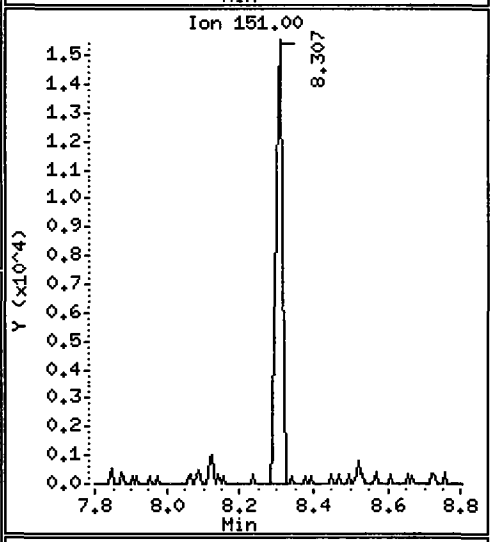
7 Acenaphthylene

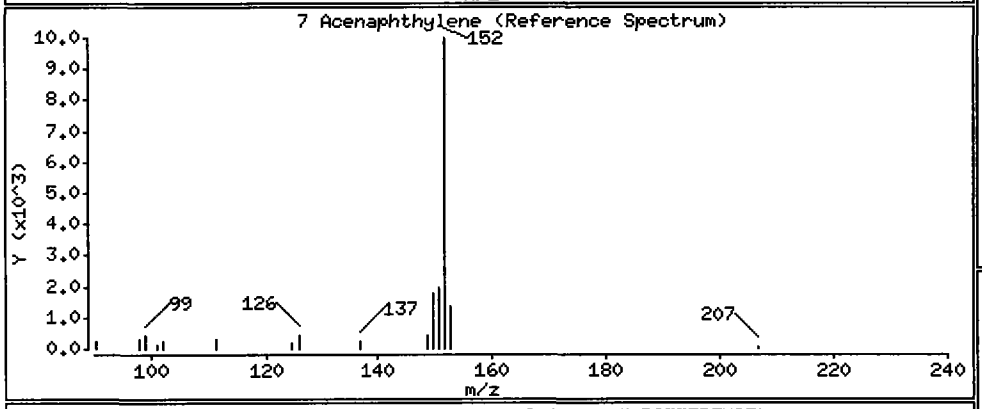
Concentration: 240.7 ug/kg

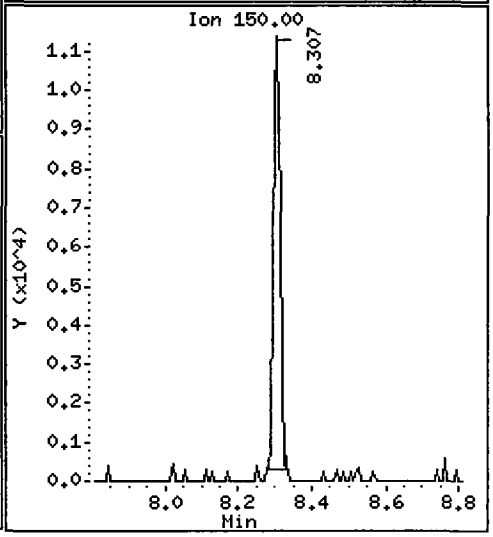


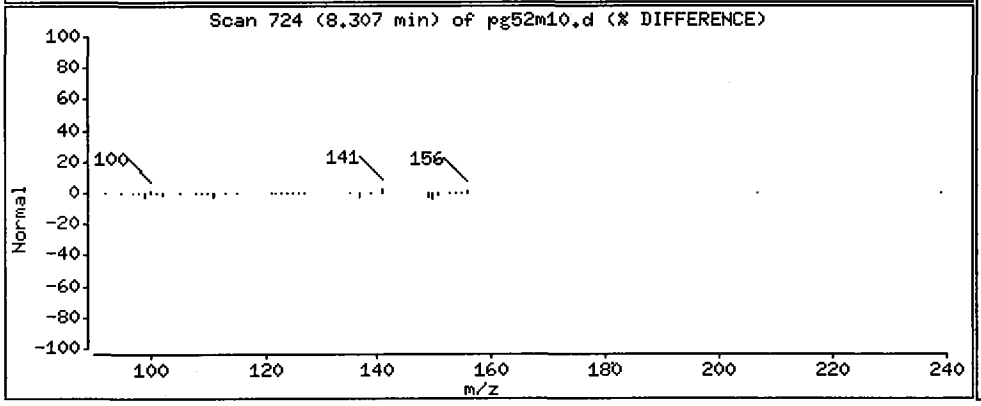












Data File: /chem3/nt1.i/20090718.b/pg52m10.d

Date : 18-JUL-2009 13:02

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M,10

Volume Injected (uL): 1.0

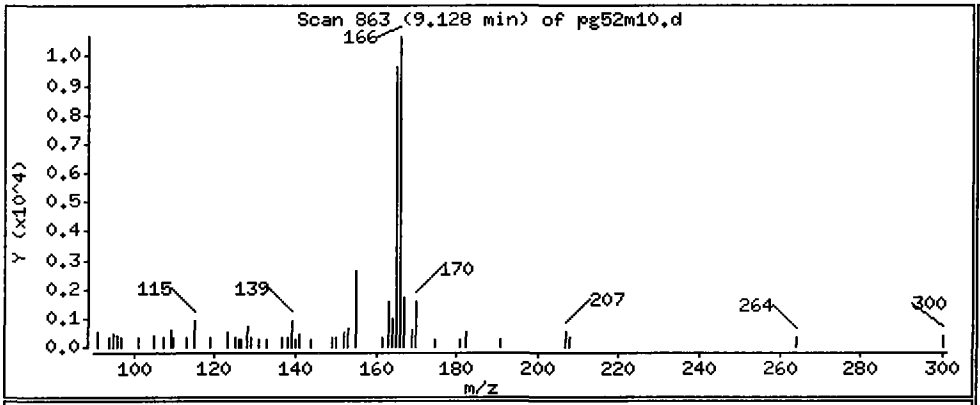
Operator: VTS

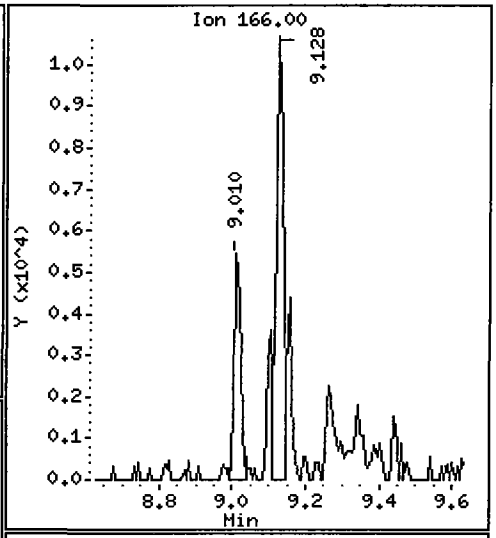
Column phase: ZB-5msi

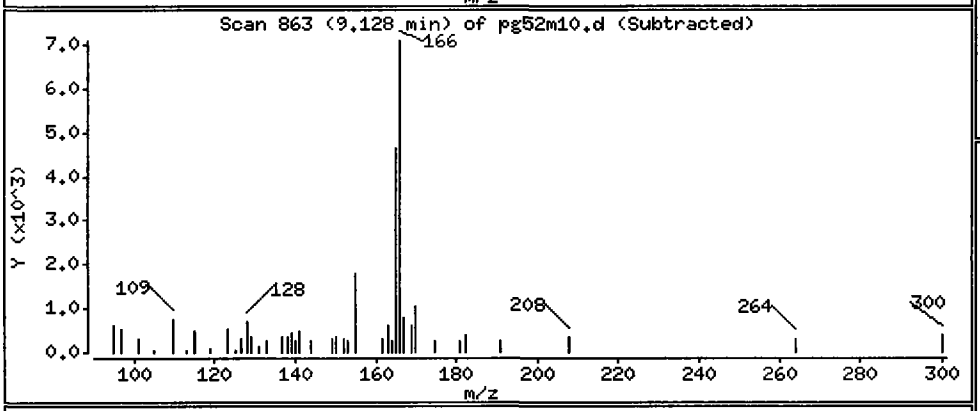
Column diameter: 0.25

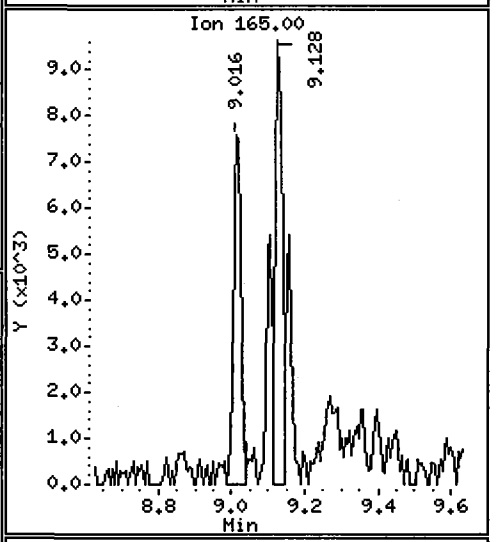
11 Fluorene

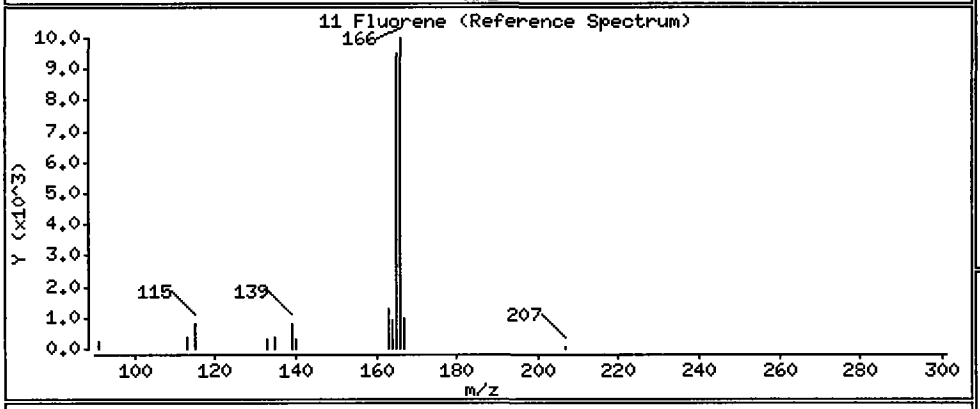
Concentration: 50.57 ug/kg

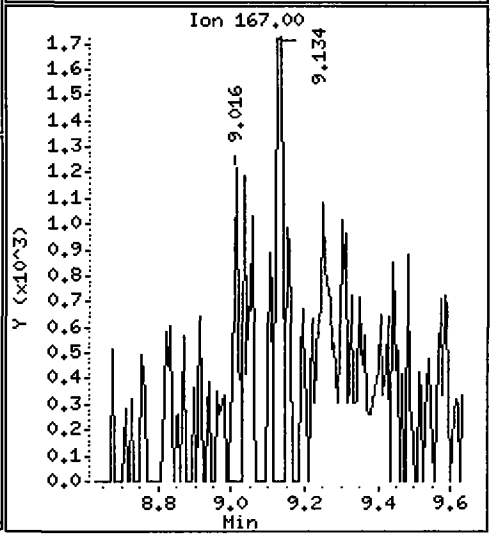


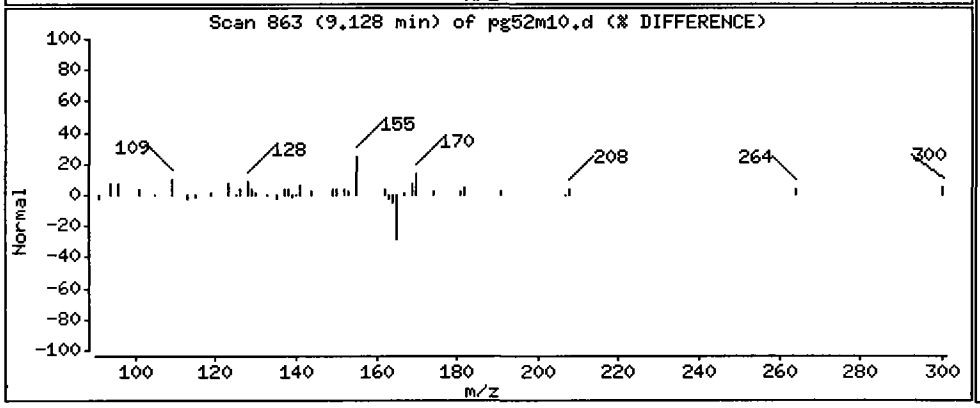












Data File: /chem3/nt1.i/20090718.b/pg52m10.d

Date : 18-JUL-2009 13:02

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M,10

Volume Injected (uL): 1.0

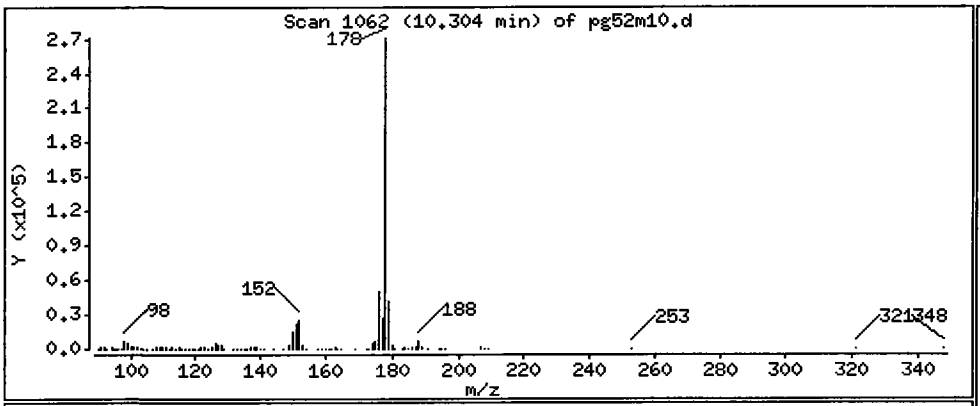
Operator: VTS

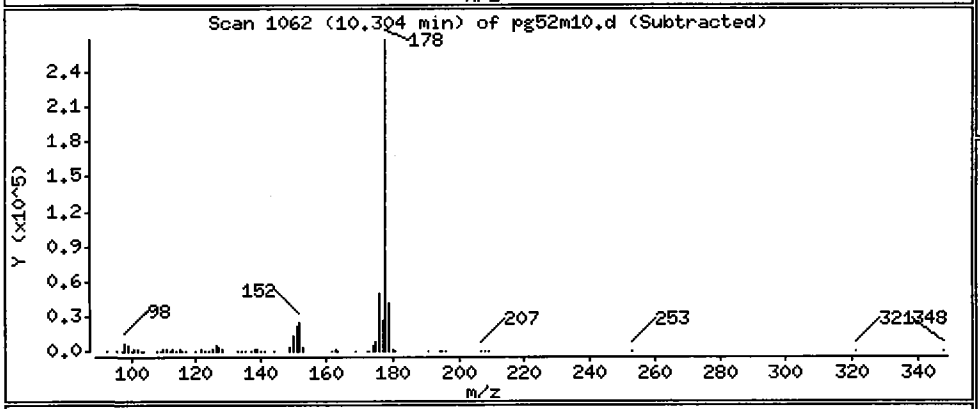
Column phase: ZB-5msi

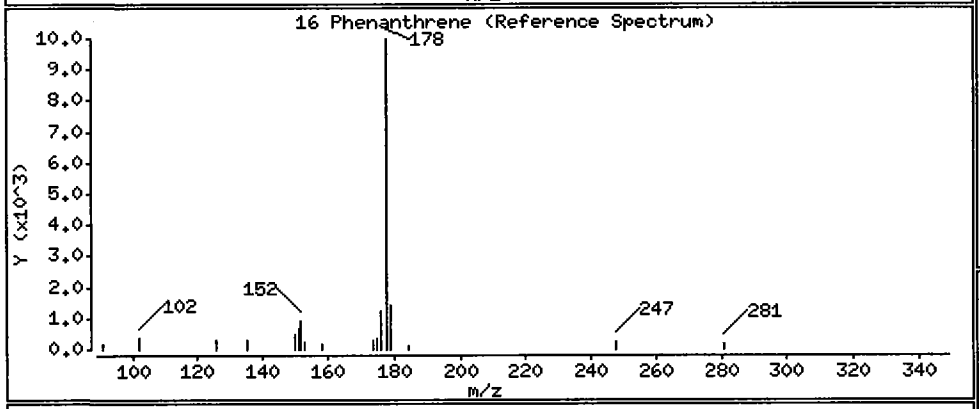
Column diameter: 0.25

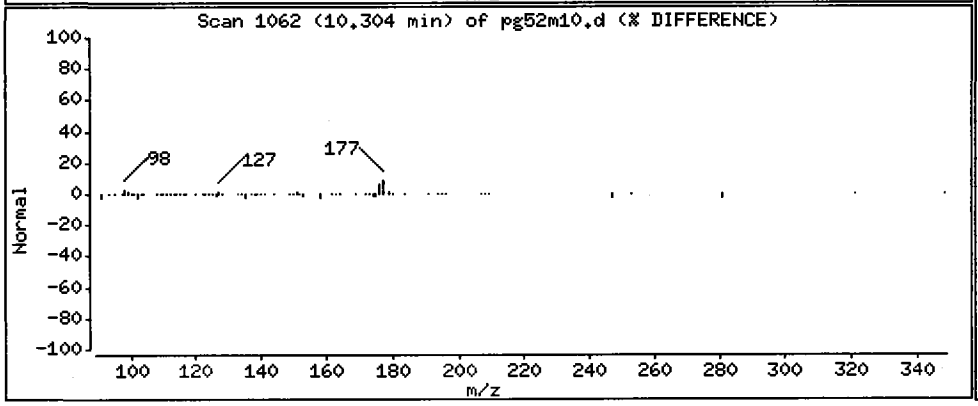
16 Phenanthrene

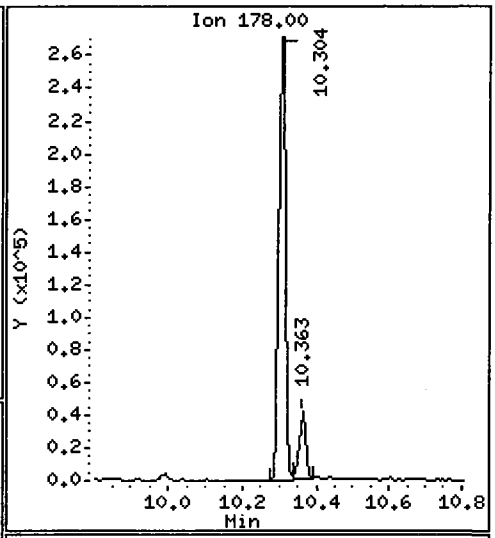
Concentration: 857.8 ug/kg

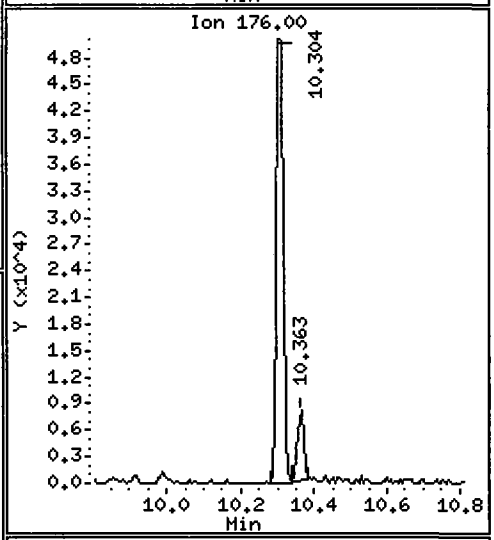


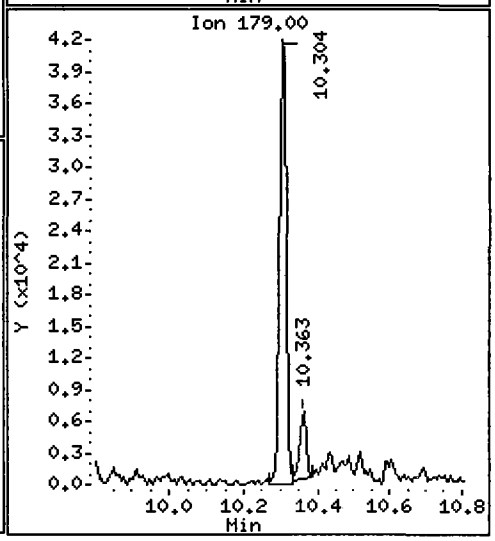












Data File: /chem3/nt1.i/20090718.b/pg52m10.d

Date : 18-JUL-2009 13:02

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M,10

Volume Injected (uL): 1.0

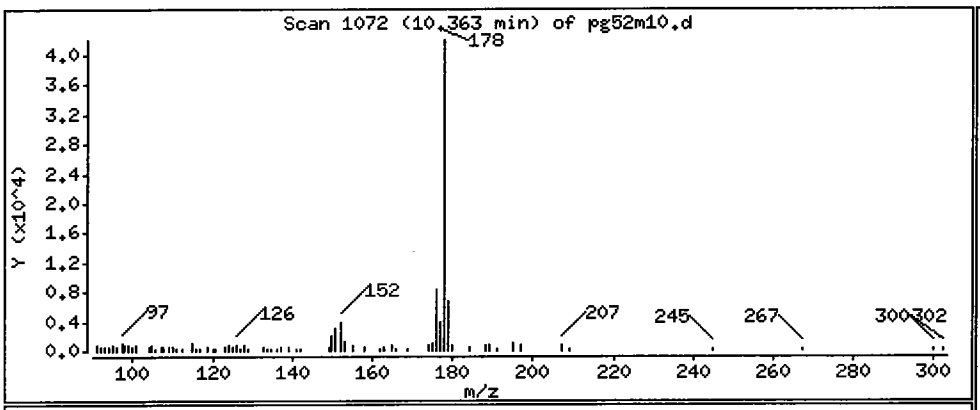
Operator: VTS

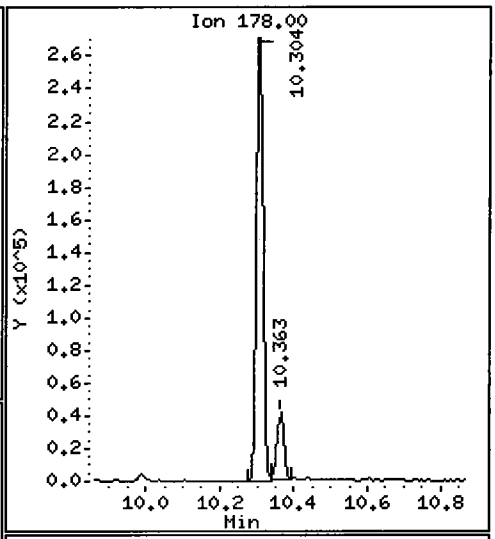
Column phase: ZB-5msi

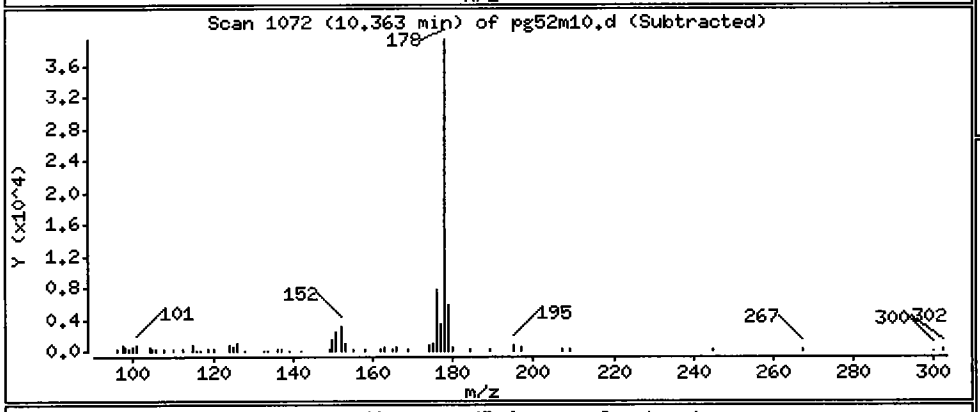
Column diameter: 0.25

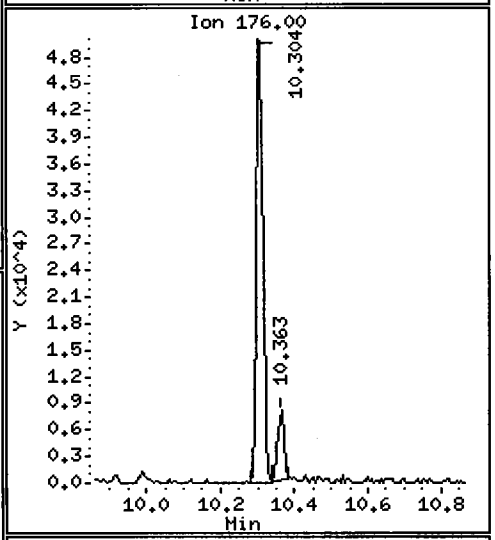
17 Anthracene

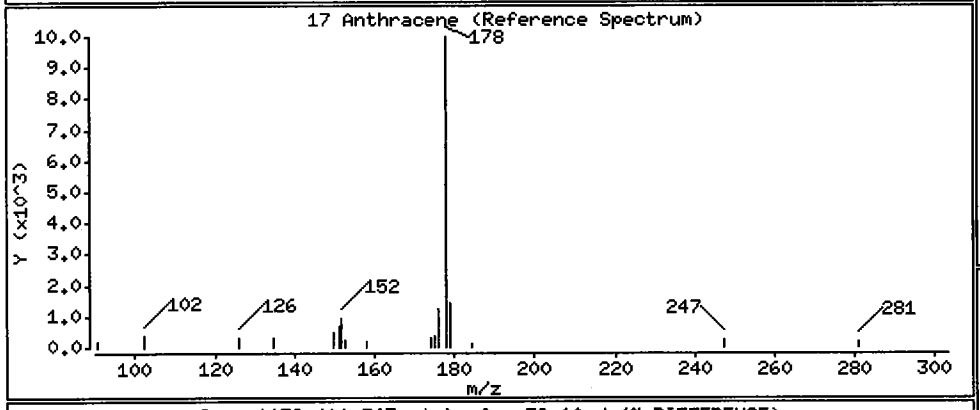
Concentration: 130.1 ug/kg

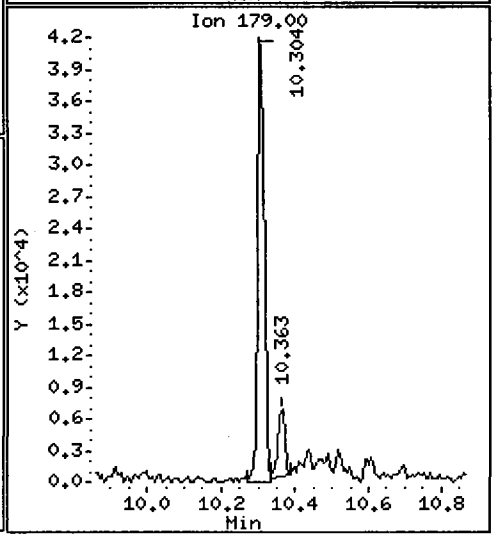


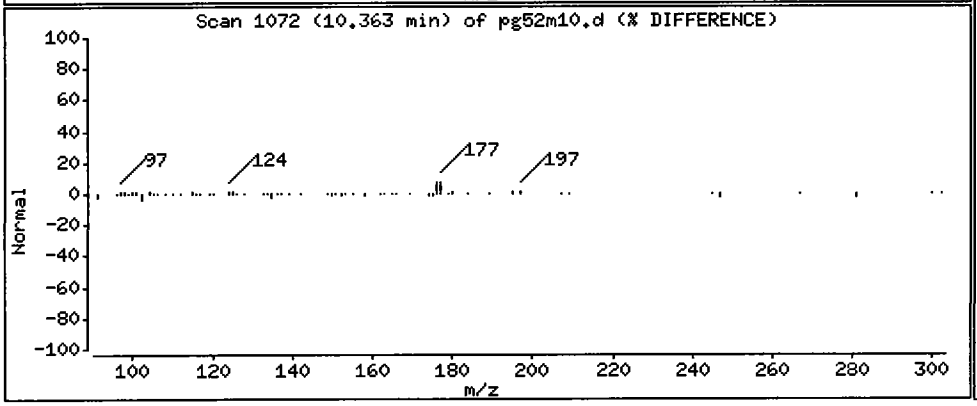












Data File: /chem3/nt1.i/20090718.b/pg52m10.d

Date : 18-JUL-2009 13:02

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M,10

Volume Injected (uL): 1.0

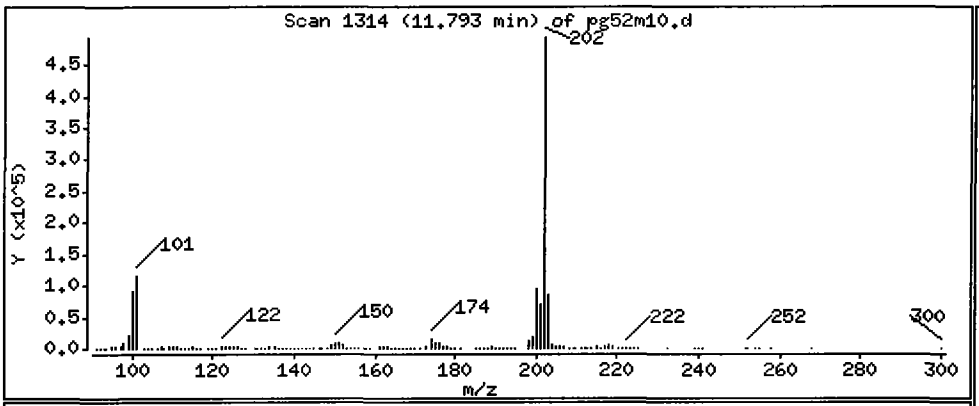
Operator: VTS

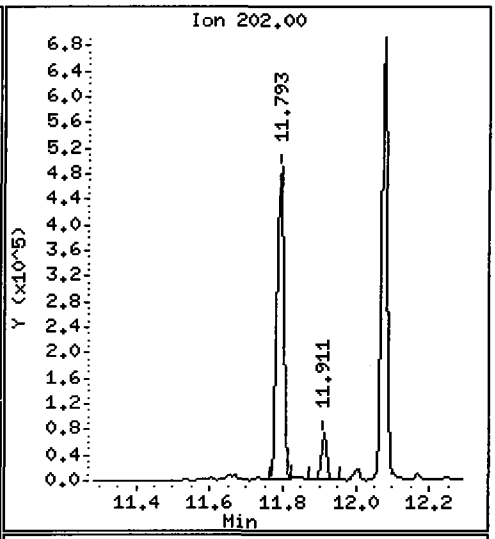
Column phase: ZB-5msi

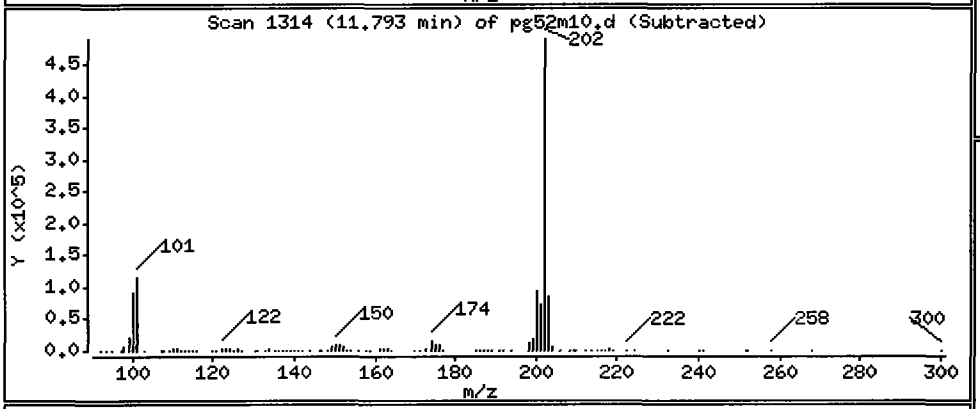
Column diameter: 0.25

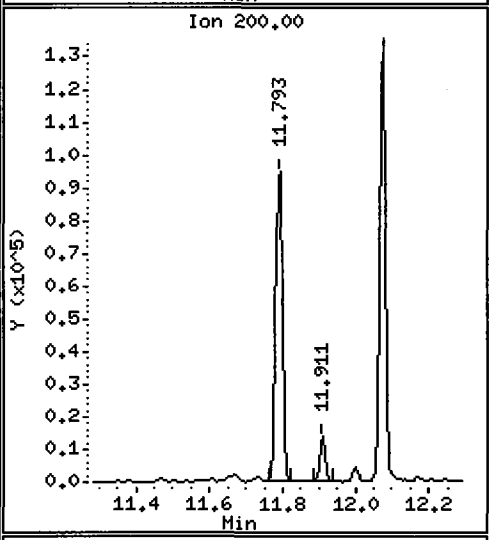
19 Fluoranthene

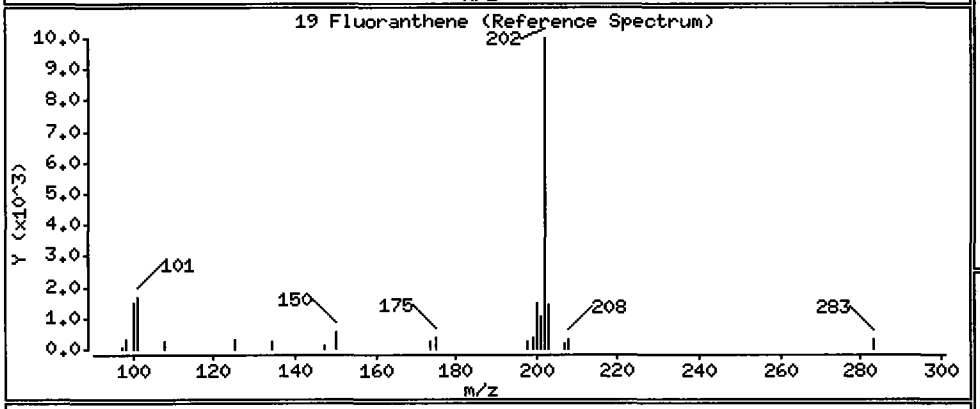
Concentration: 1714 ug/kg

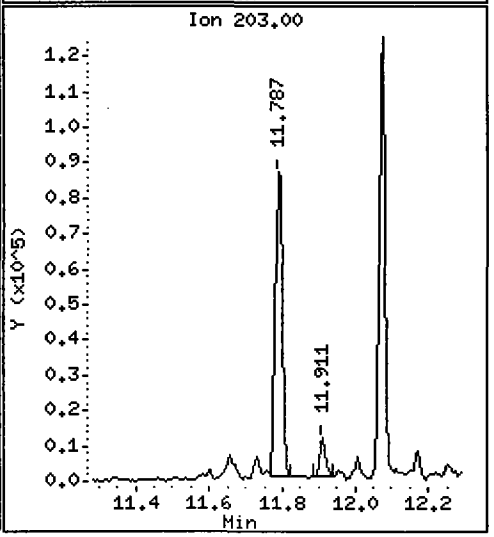


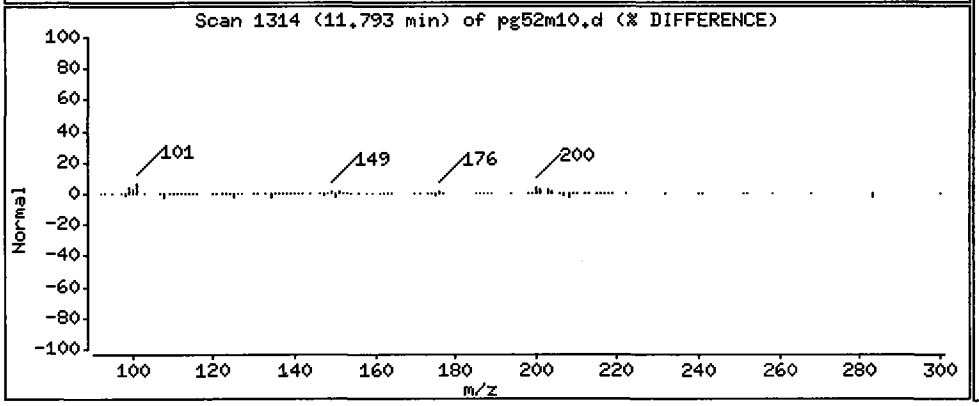












Data File: /chem3/nt1.i/20090718.b/pg52m10.d

Date : 18-JUL-2009 13:02

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M,10

Volume Injected (uL): 1.0

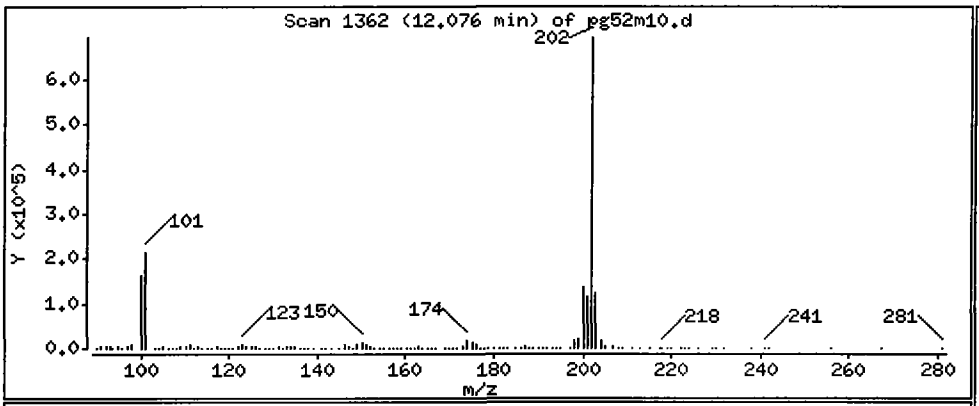
Operator: VTS

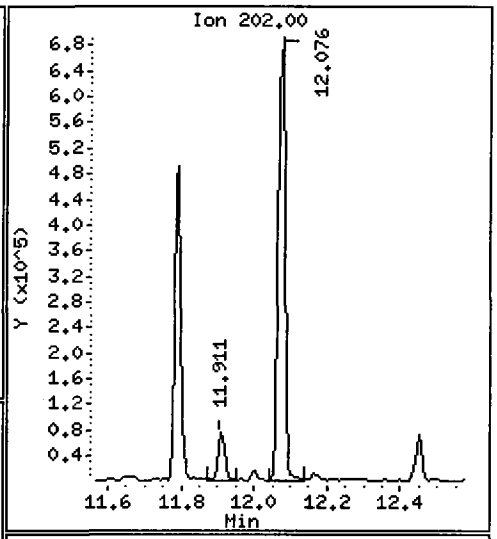
Column phase: ZB-5msi

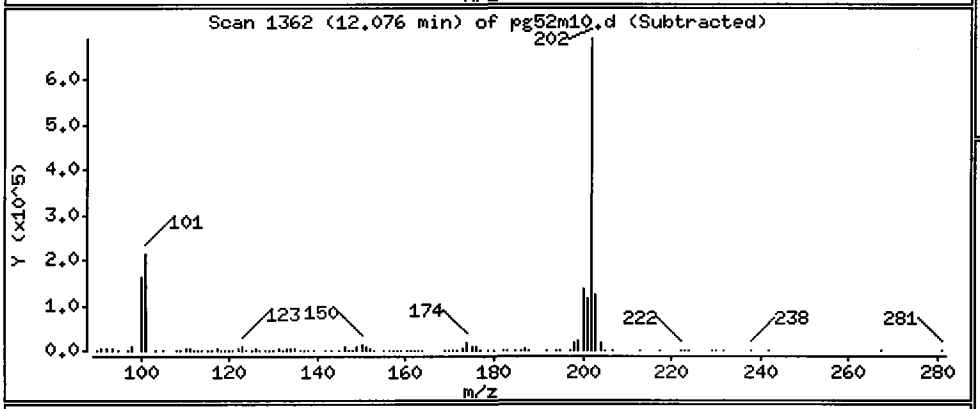
Column diameter: 0.25

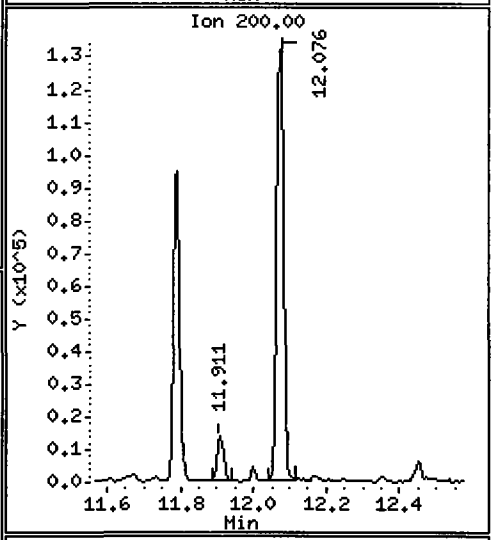
20 Pyrene

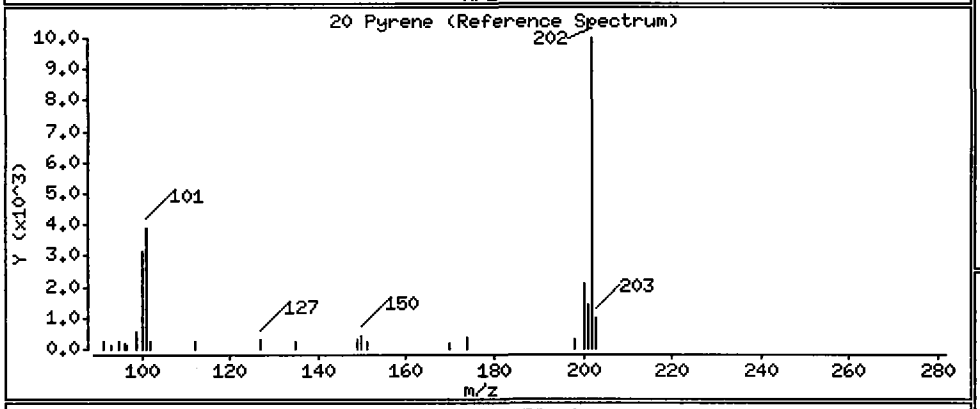
Concentration: 2039 ug/kg

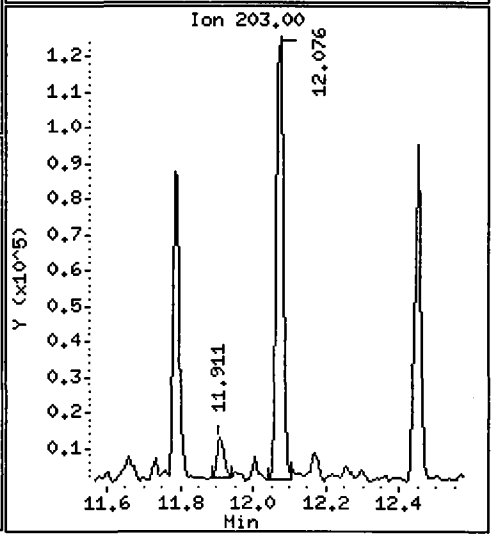


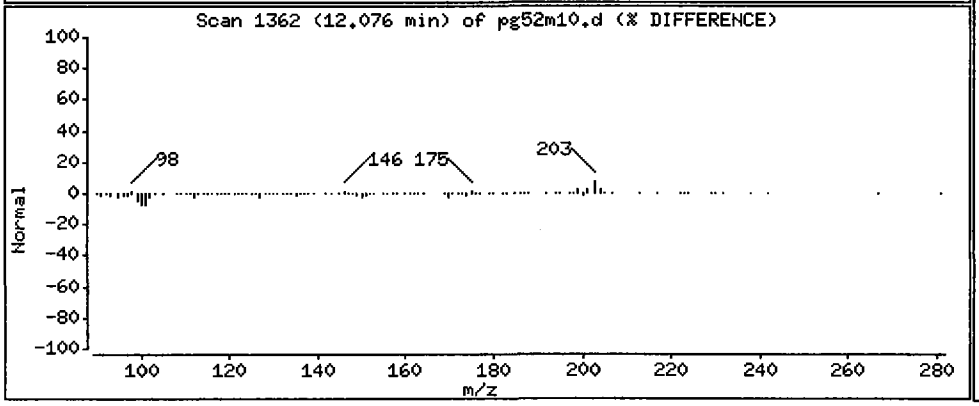












Data File: /chem3/nt1.i/20090718.b/pg52m10.d

Date : 18-JUL-2009 13:02

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M,10

Volume Injected (uL): 1.0

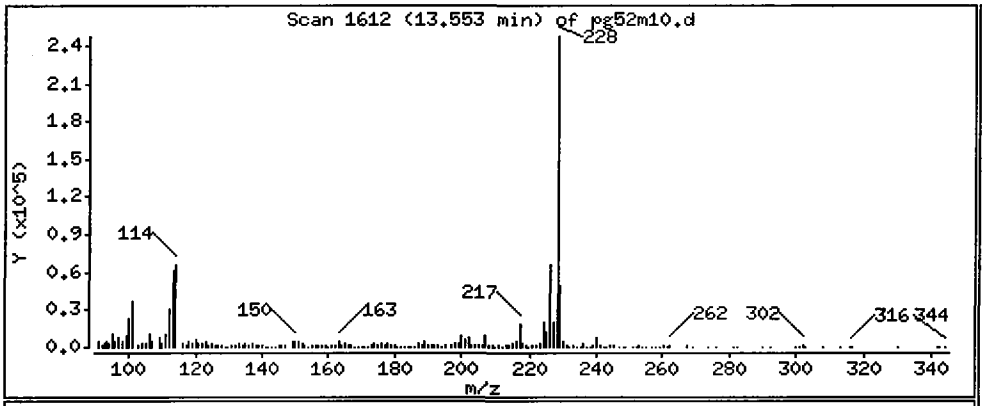
Operator: VTS

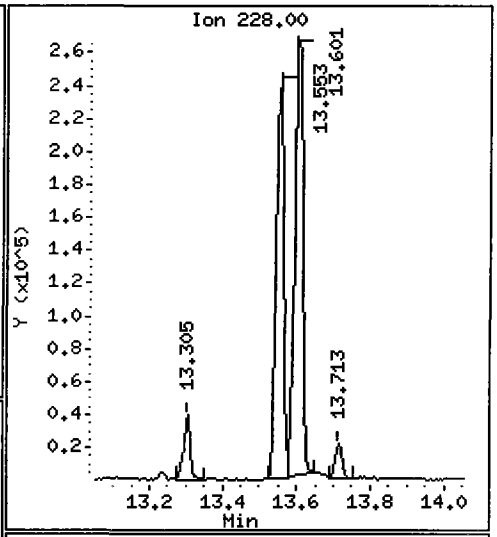
Column phase: ZB-5msi

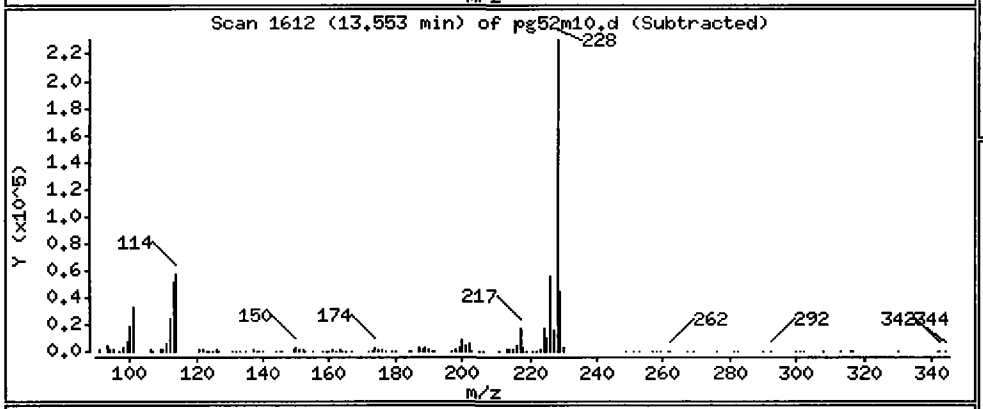
Column diameter: 0.25

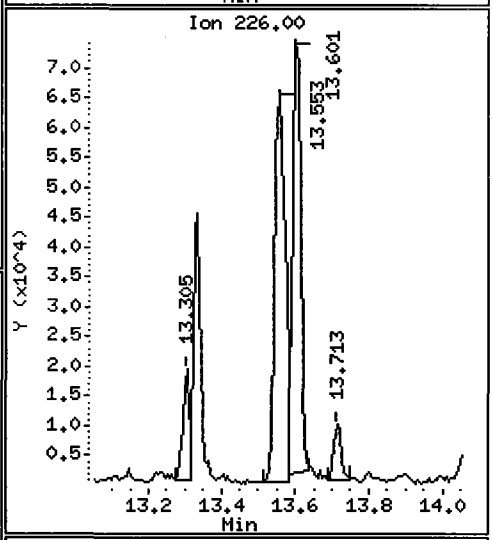
22 Benzo(a)anthracene

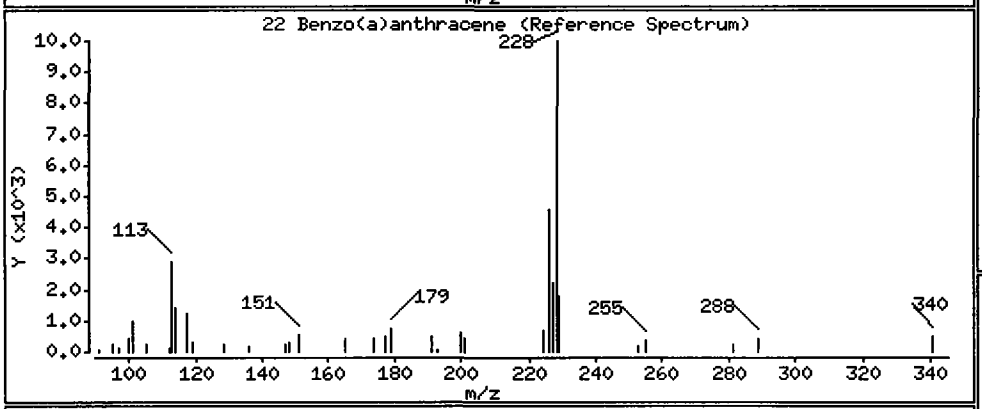
Concentration: 1085 ug/kg

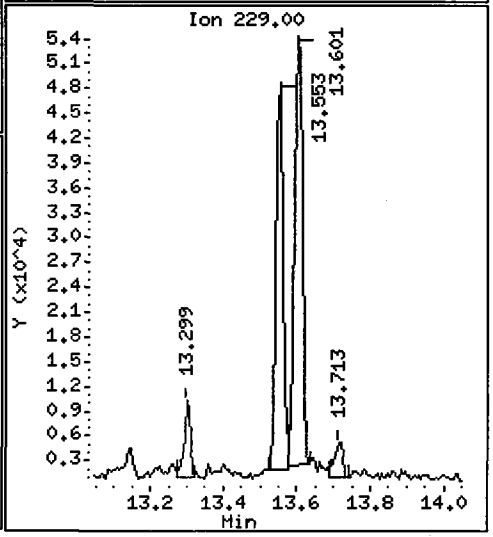


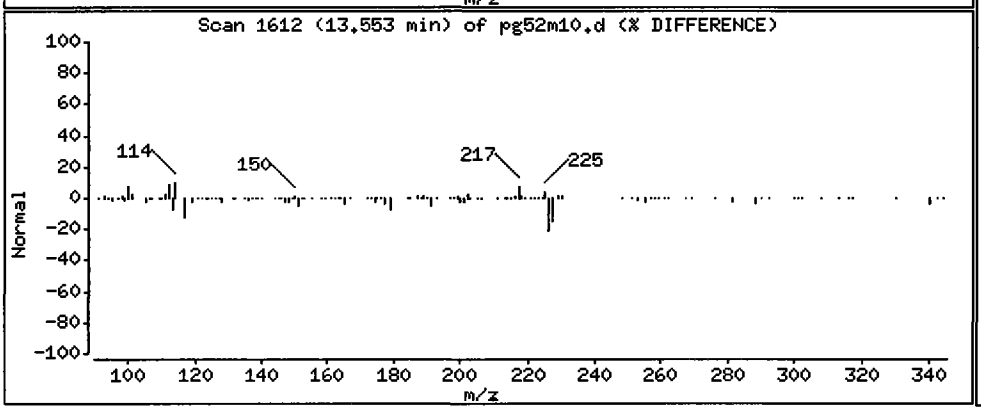












Data File: /chem3/nt1.i/20090718.b/pg52m10.d

Date : 18-JUL-2009 13:02

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M,10

Volume Injected (uL): 1.0

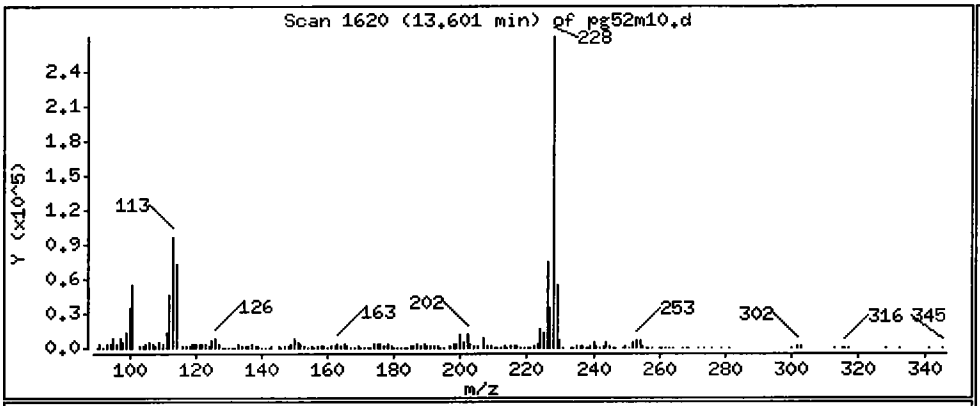
Operator: VTS

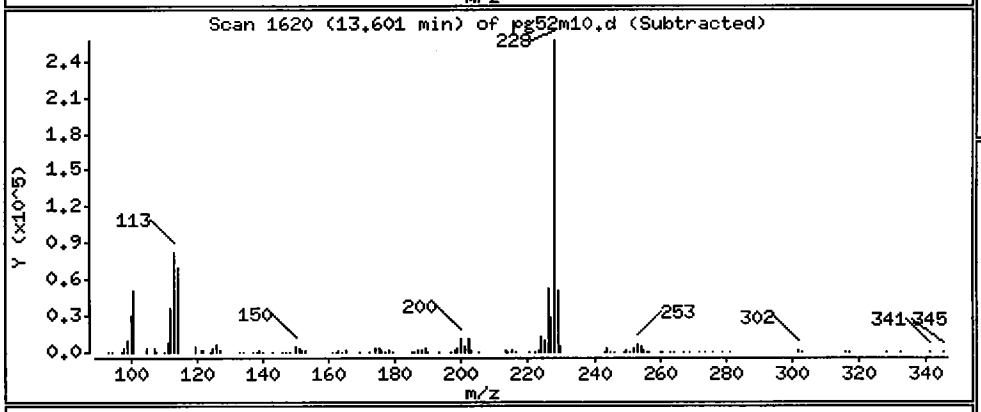
Column phase: ZB-5msi

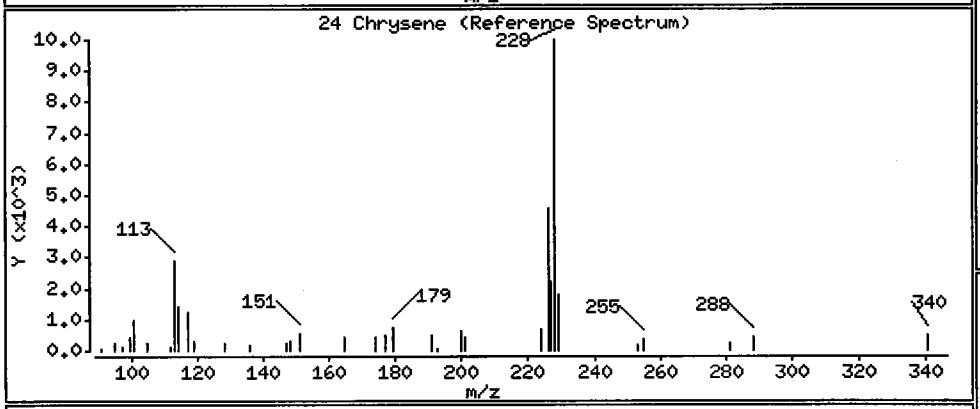
Column diameter: 0.25

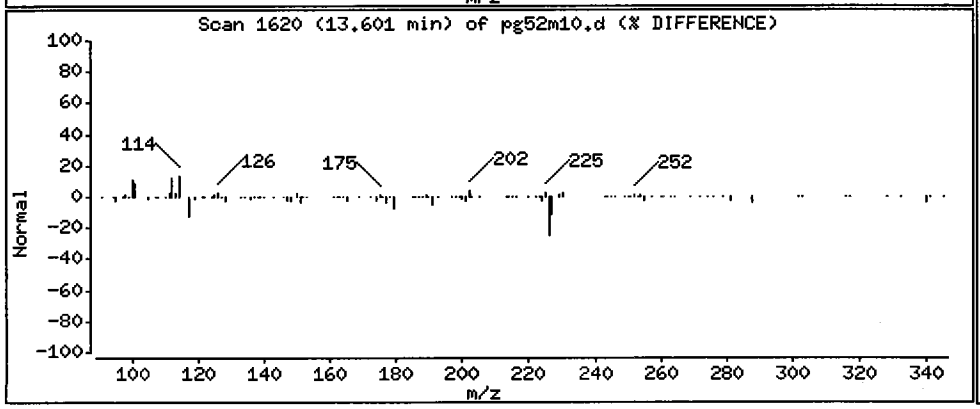
24 Chrysene

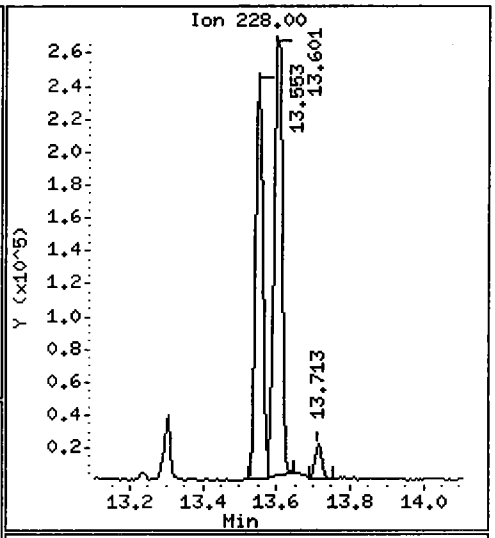
Concentration: 1241 ug/kg

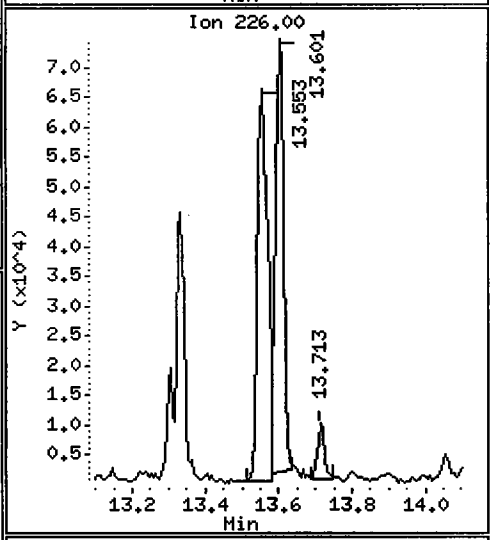


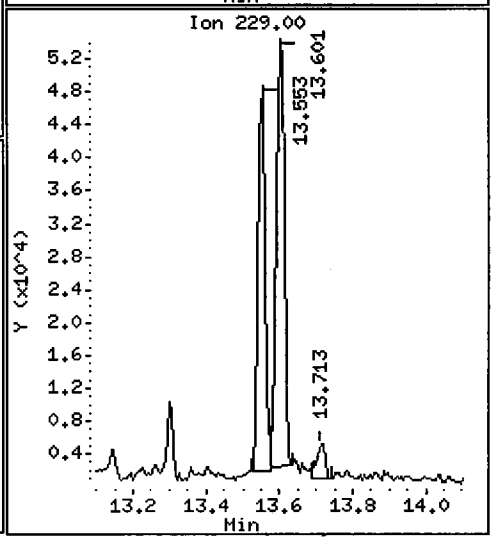












Data File: /chem3/nt1.i/20090718.b/pg52m10.d

Date : 18-JUL-2009 13:02

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M,10

Volume Injected (uL): 1.0

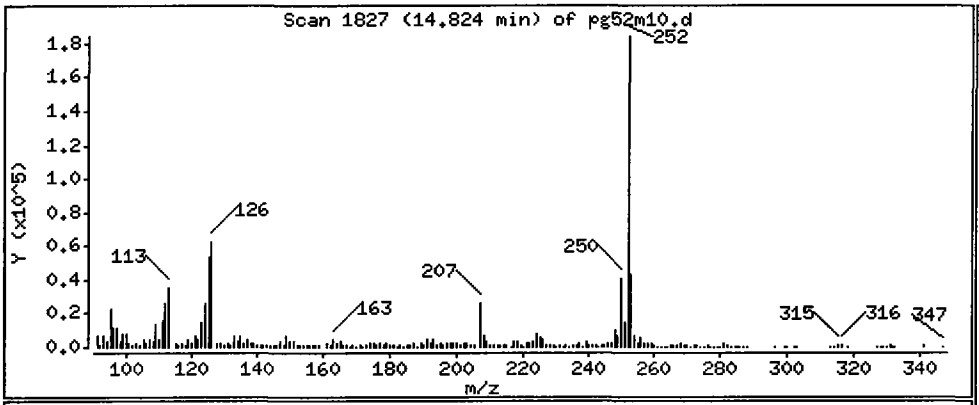
Operator: VTS

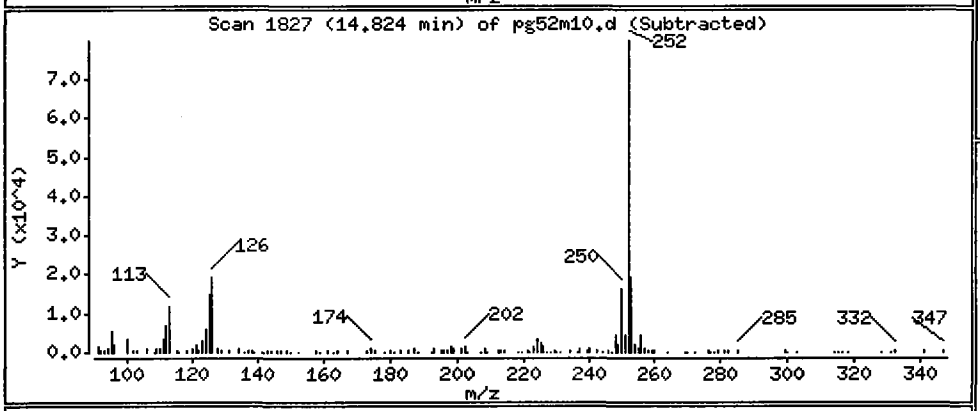
Column phase: ZB-5msi

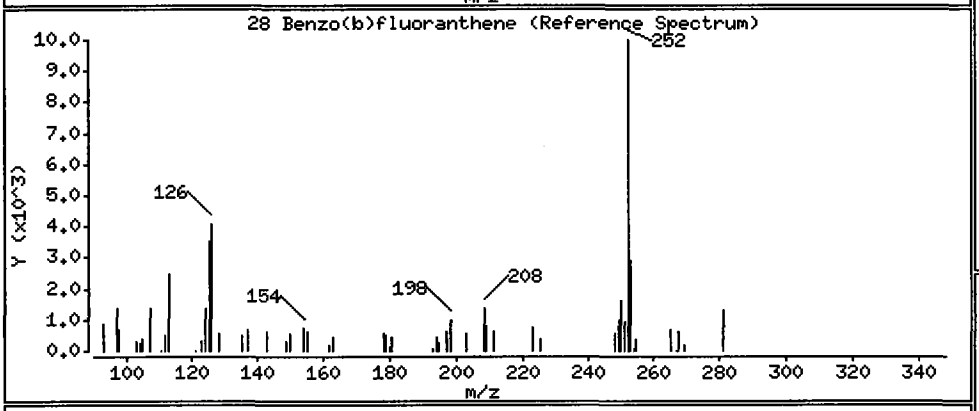
Column diameter: 0.25

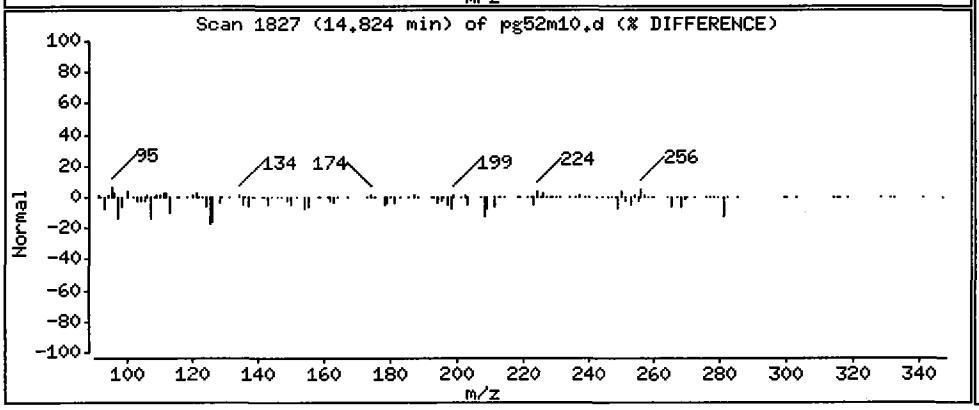
28 Benzo(b)fluoranthene

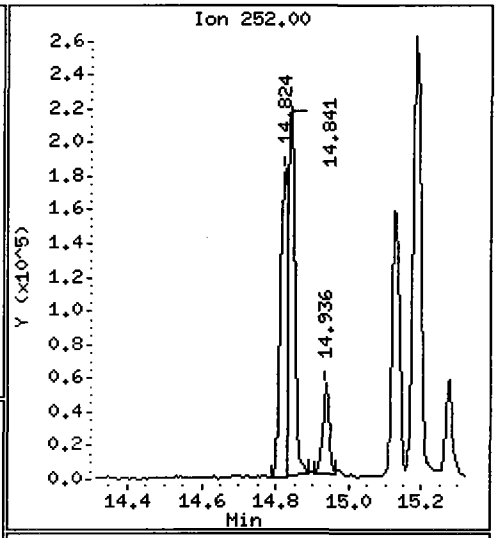
Concentration: 866.6 ug/kg

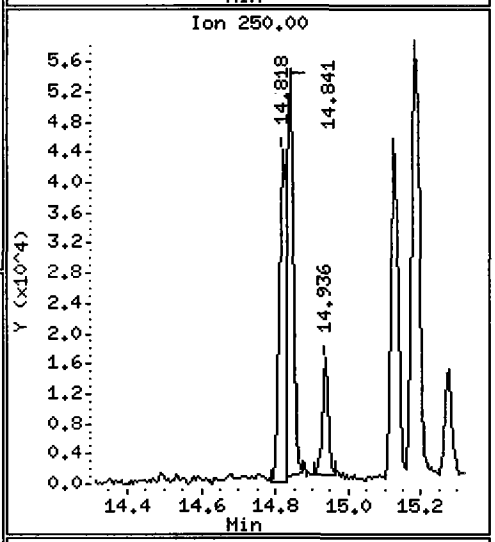


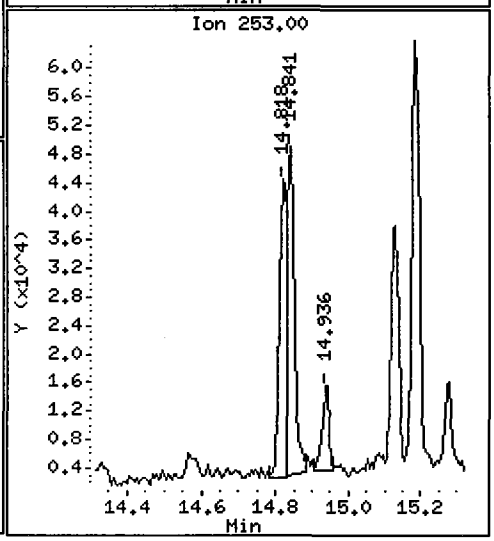












Data File: /chem3/nt1.i/20090718.b/pg52m10.d

Date : 18-JUL-2009 13:02

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M,10

Volume Injected (uL): 1.0

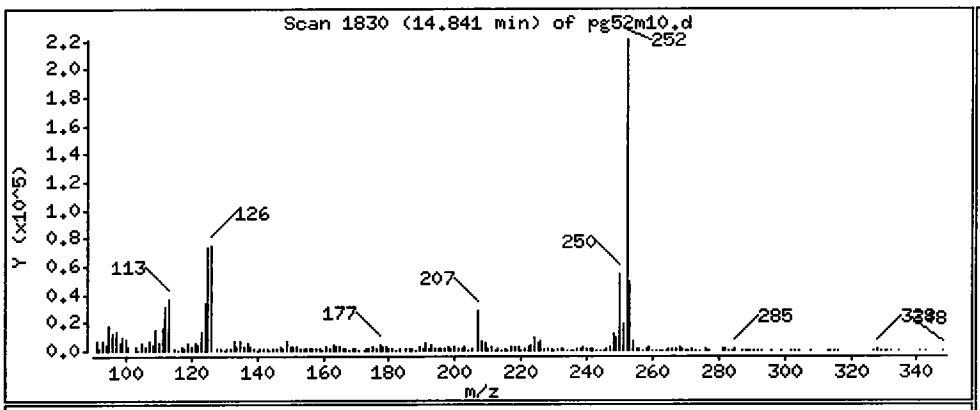
Operator: VTS

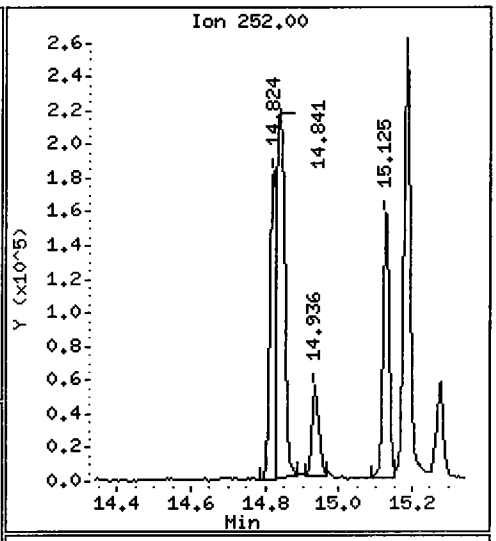
Column phase: ZB-5msi

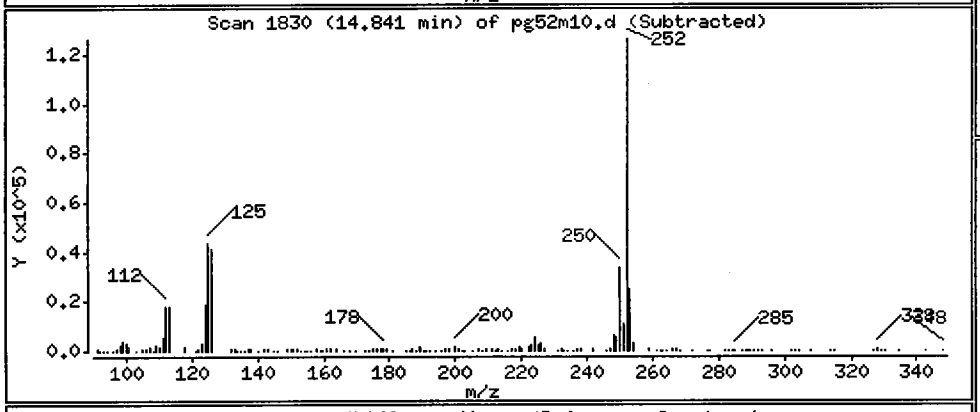
Column diameter: 0.25

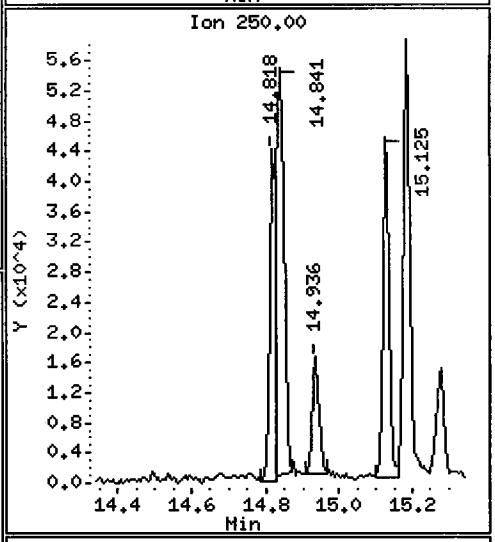
29 Benzo(k)fluoranthene

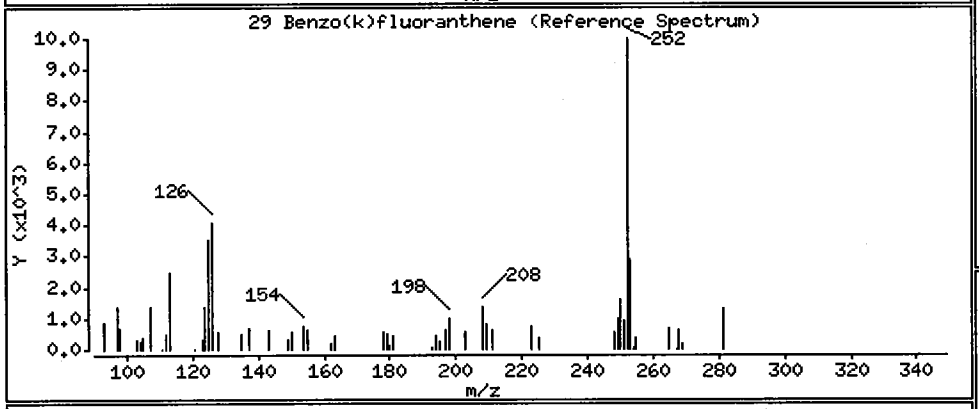
Concentration: 1049 ug/kg

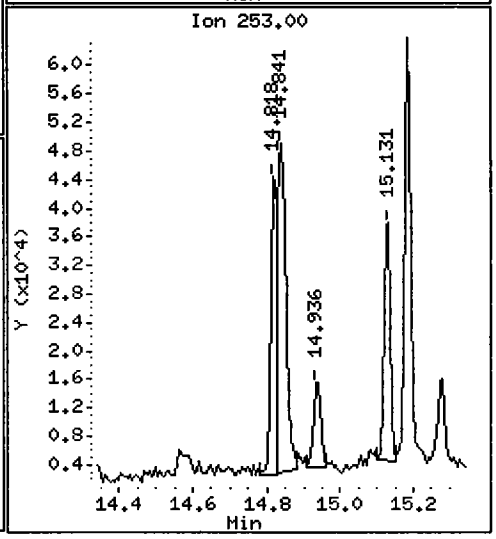


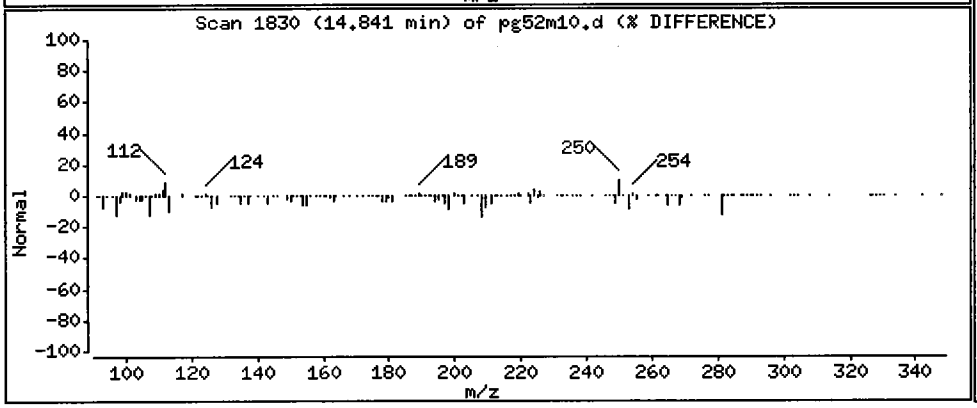












Data File: /chem3/nt1.i/20090718.b/pg52m10.d

Date : 18-JUL-2009 13:02

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M,10

Volume Injected (uL): 1.0

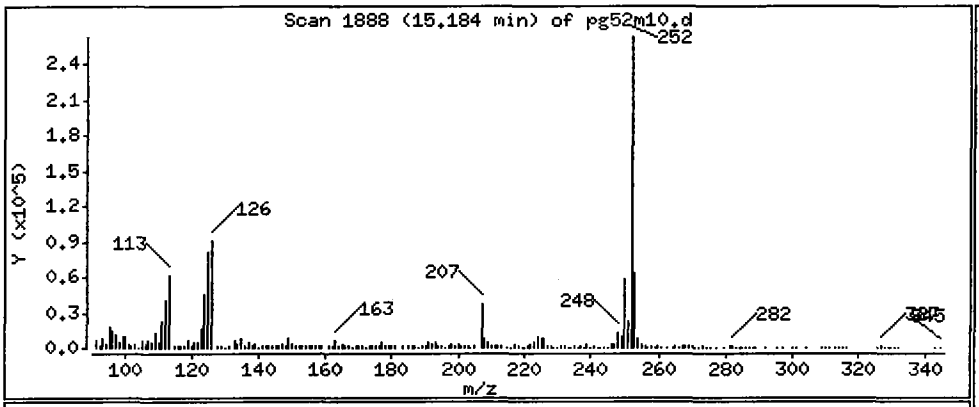
Operator: VTS

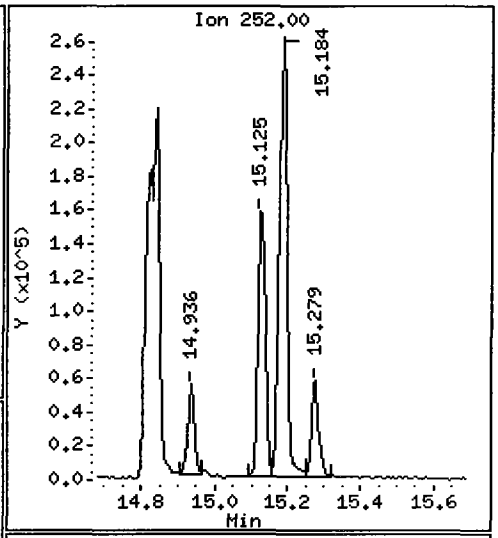
Column phase: ZB-5msi

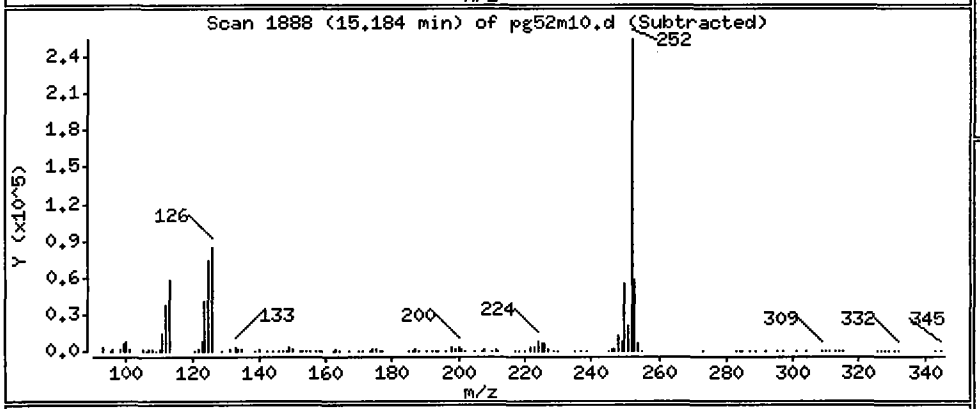
Column diameter: 0.25

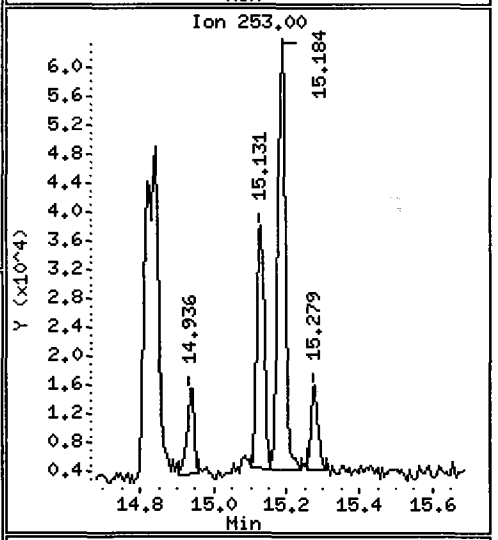
30 Benzo(a)pyrene

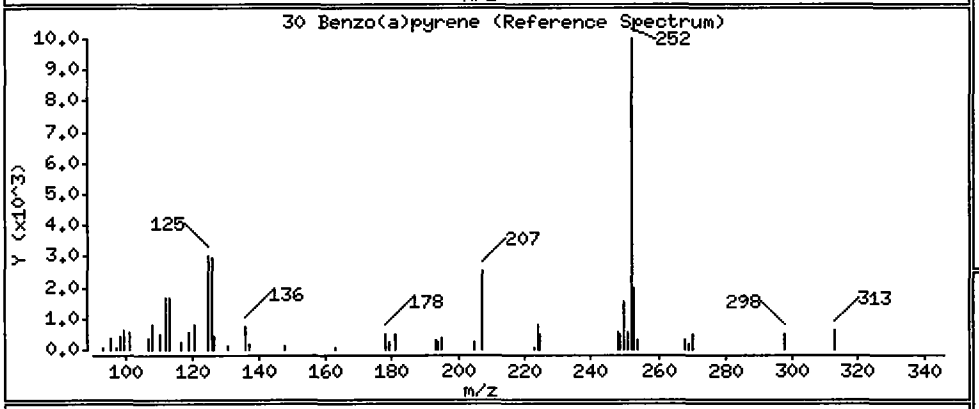
Concentration: 1488 ug/kg

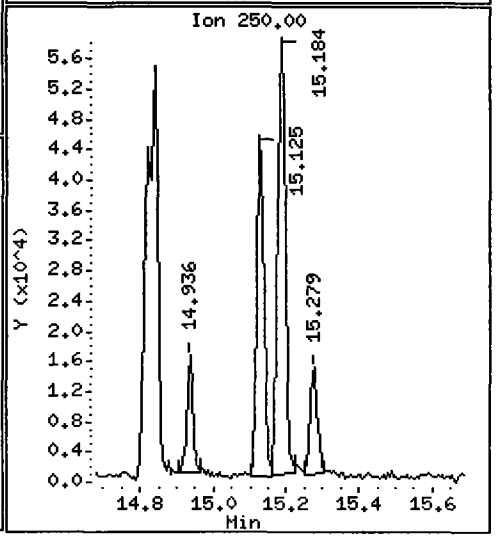


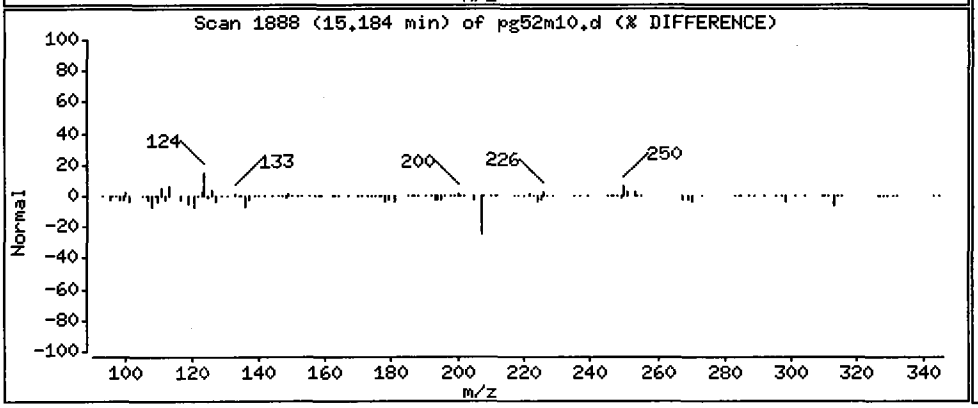












Data File: /chem3/nt1.i/20090718.b/pg52m10.d

Date : 18-JUL-2009 13:02

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M,10

Volume Injected (uL): 1.0

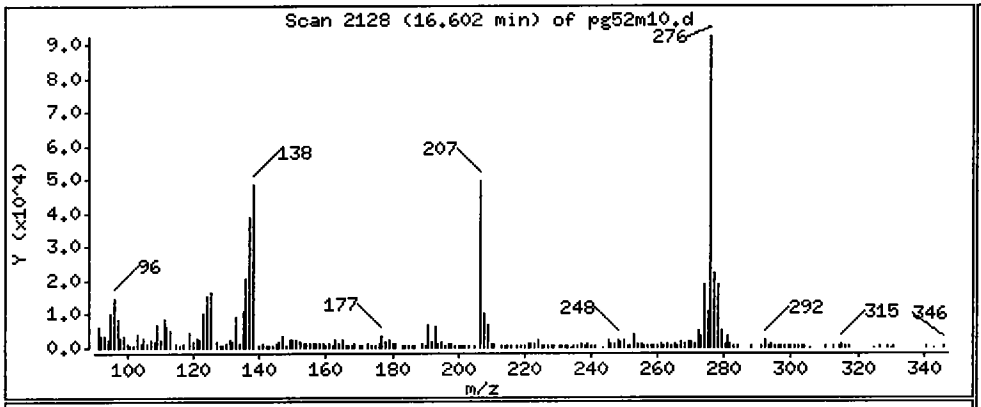
Operator: VTS

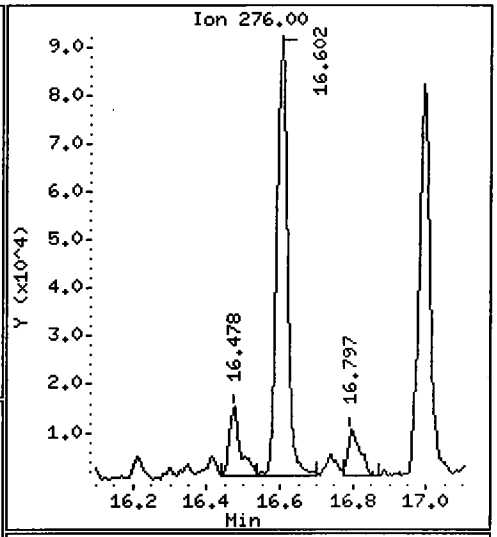
Column phase: ZB-5msi

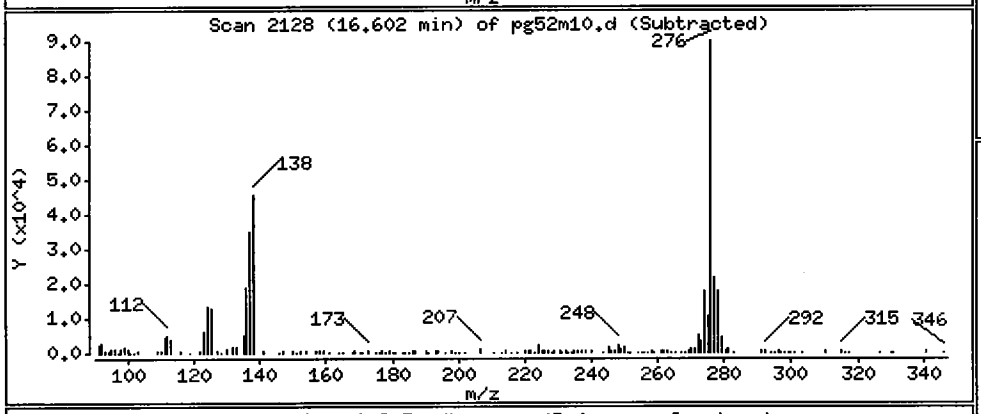
Column diameter: 0.25

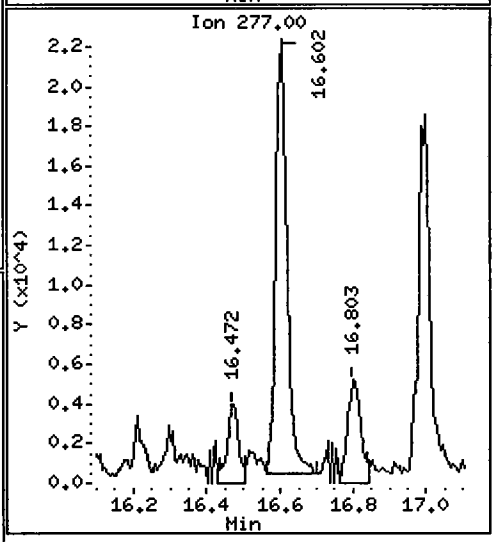
33 Indeno(1,2,3-cd)pyrene

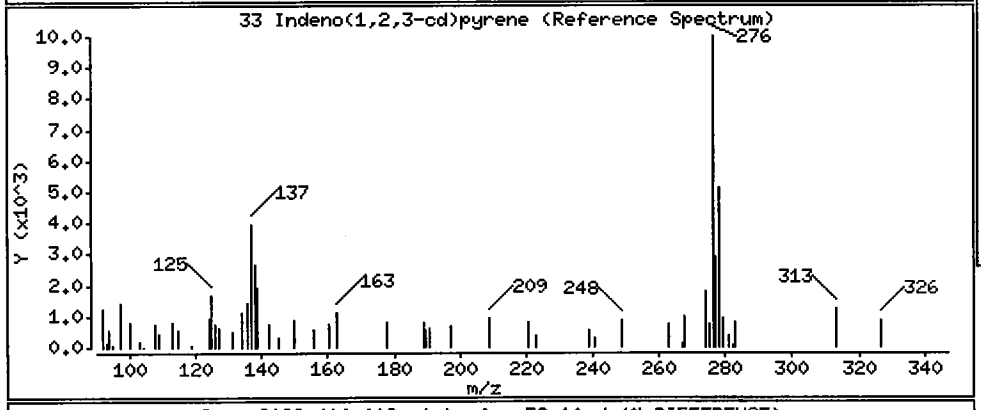
Concentration: 725.7 ug/kg

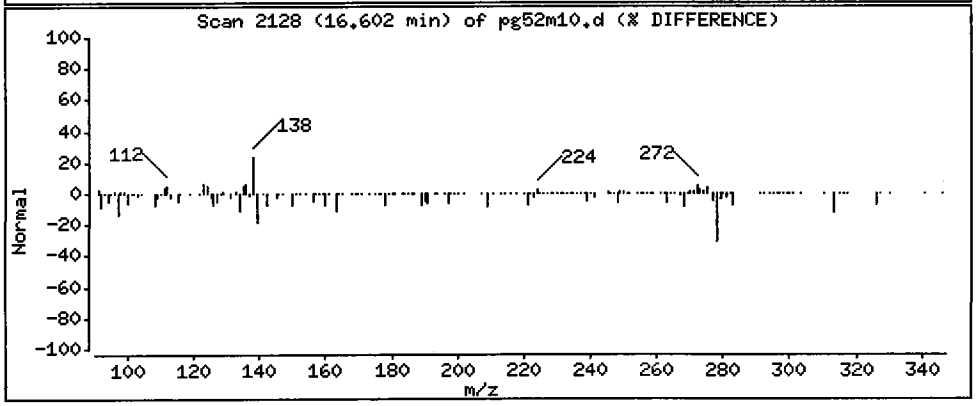












Data File: /chem3/nt1.i/20090718.b/pg52m10.d

Date : 18-JUL-2009 13:02

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M,10

Volume Injected (uL): 1.0

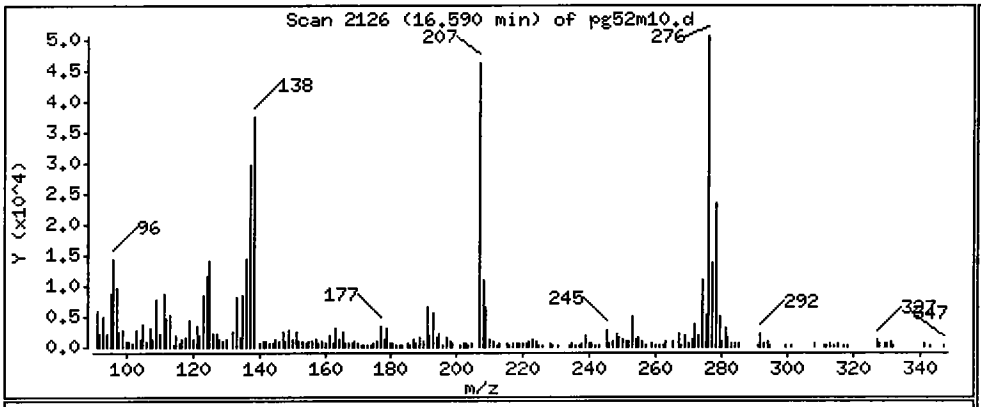
Operator: VTS

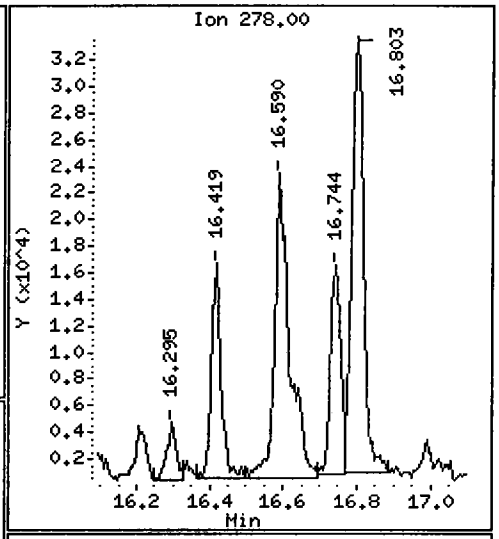
Column phase: ZB-5msi

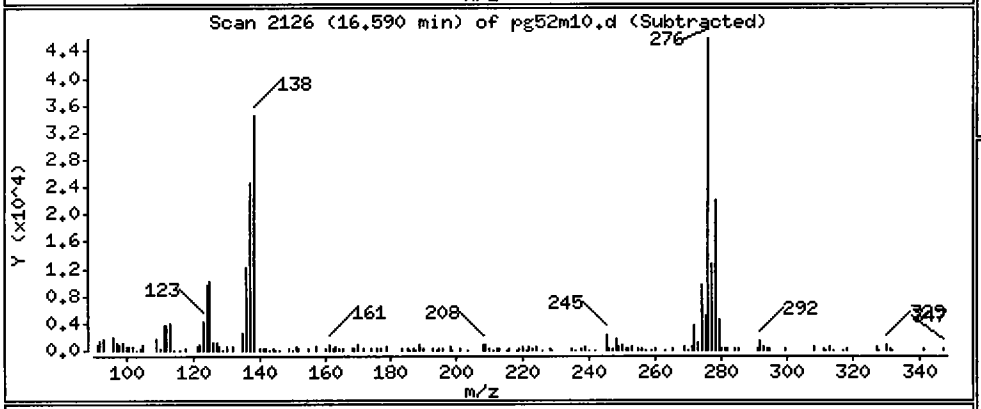
Column diameter: 0.25

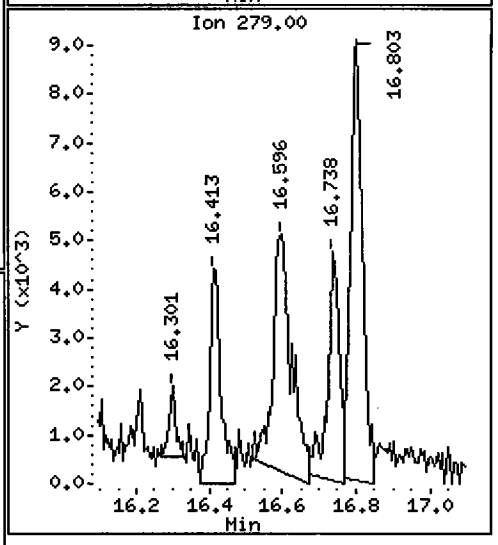
34 Dibenz(a,h)anthracene

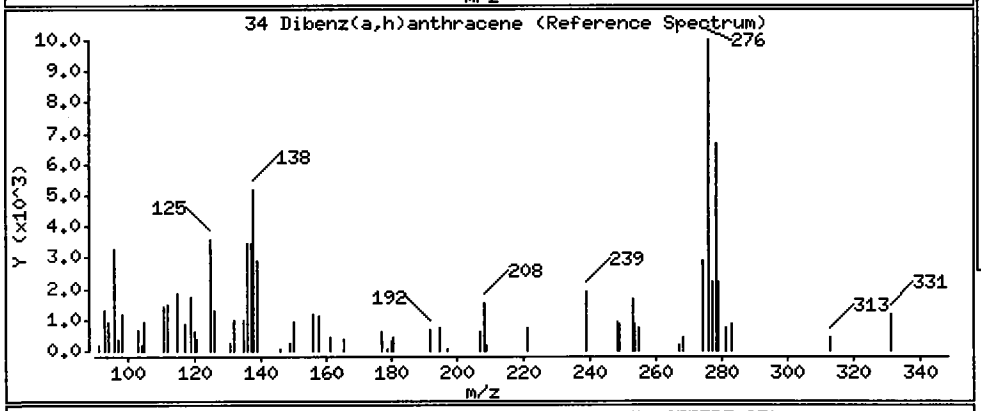
Concentration: 337.0 ug/kg

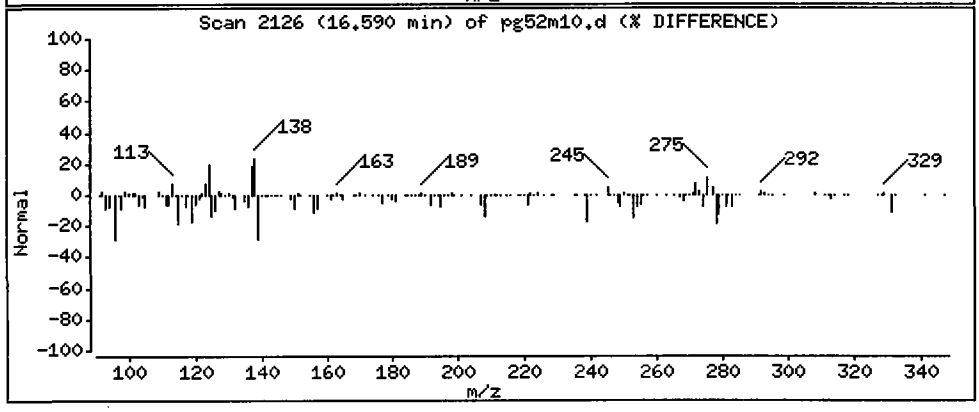












Data File: /chem3/nt1.i/20090718.b/pg52m10.d

Date : 18-JUL-2009 13:02

Client ID: AHA-01-1NE(0-3)

Instrument: nt1.i

Sample Info: PG52M,10

Volume Injected (uL): 1.0

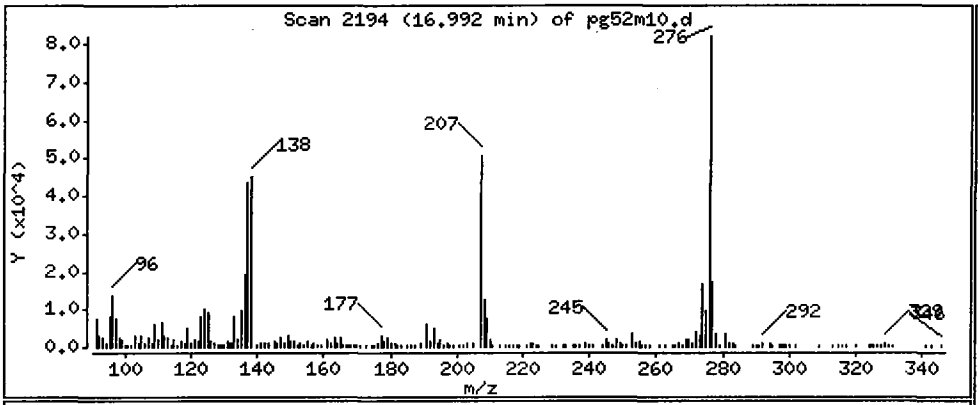
Operator: VTS

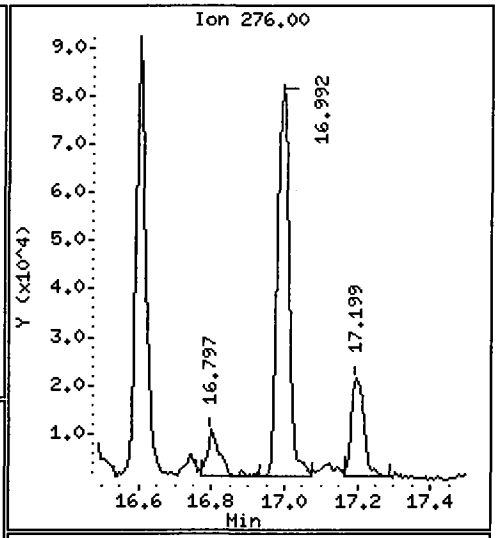
Column phase: ZB-5msi

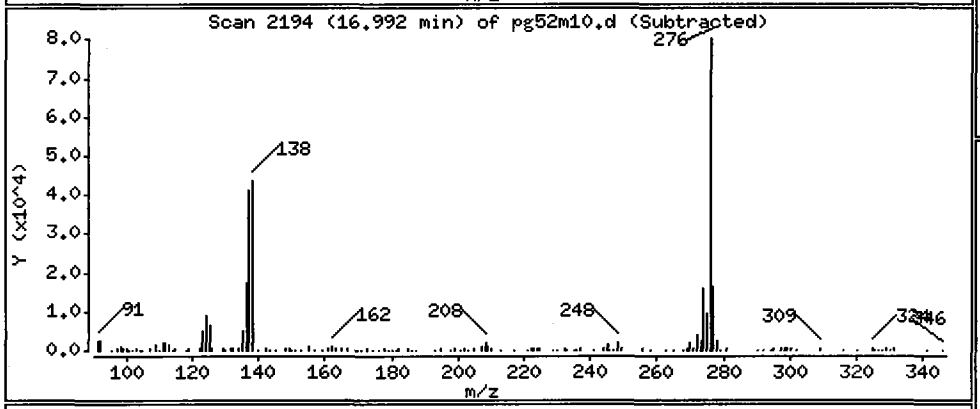
Column diameter: 0.25

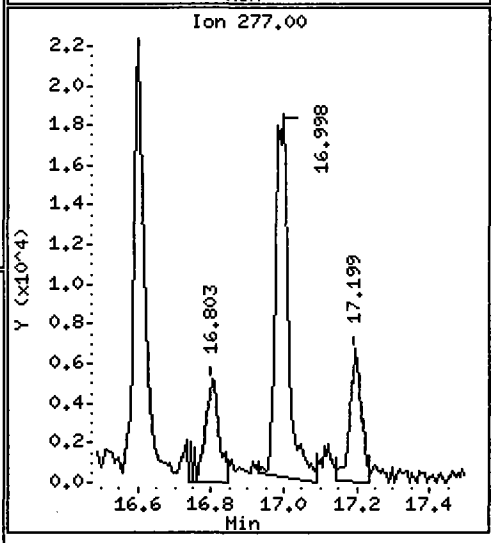
35 Benzo(g,h,i)perylene

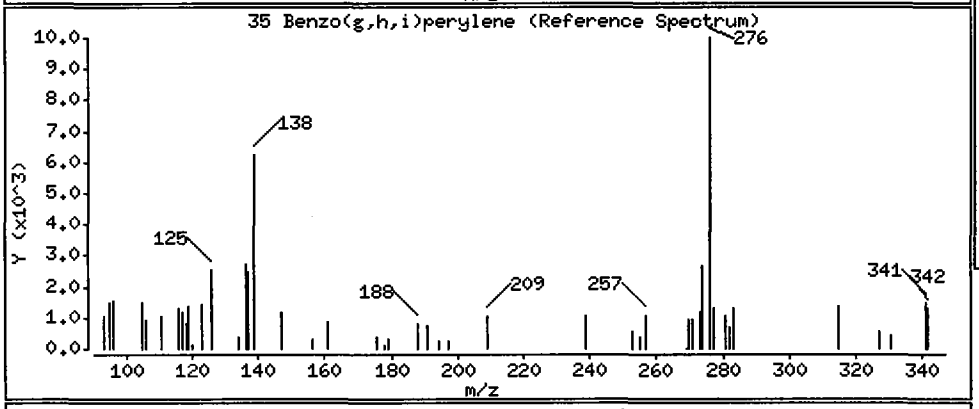
Concentration: 769.6 ug/kg

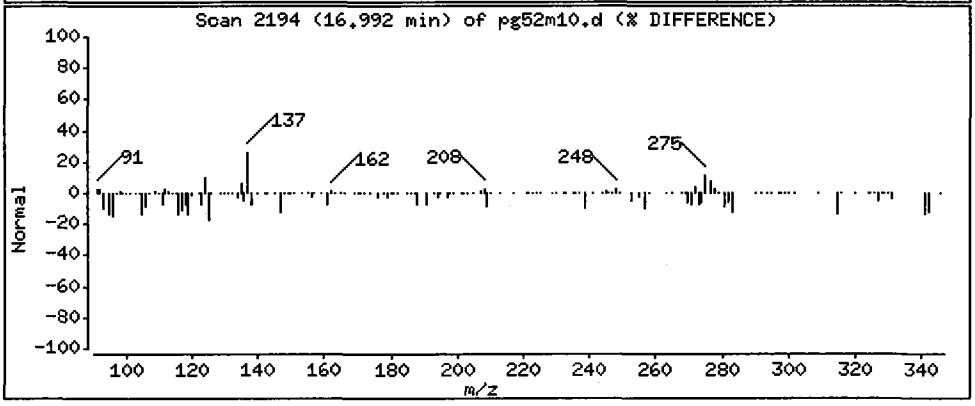












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: AHA-01-1NW(0-2.5)
SAMPLE

Lab Sample ID: PG52Q
LIMS ID: 09-16502
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 07/14/09
Date Analyzed: 07/18/09 00:10
Instrument/Analyst: NT1/YZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.8 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 11.6%

CAS Number	Analyte	RL	Result	
91-20-3	Naphthalene	4.6	27	
91-57-6	2-Methylnaphthalene	4.6	11	
90-12-0	1-Methylnaphthalene	4.6	9.7	
208-96-8	Acenaphthylene	4.6	200	
83-32-9	Acenaphthene	4.6	9.3	
86-73-7	Fluorene	4.6	50	
85-01-8	Phenanthrene	4.6	590	E
120-12-7	Anthracene	4.6	120	
206-44-0	Fluoranthene	4.6	1,200	E
129-00-0	Pyrene	4.6	1,200	E
56-55-3	Benzo(a)anthracene	4.6	710	E
218-01-9	Chrysene	4.6	780	E
205-99-2	Benzo(b)fluoranthene	4.6	530	E
207-08-9	Benzo(k)fluoranthene	4.6	530	E
50-32-8	Benzo(a)pyrene	4.6	850	E
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	280	
53-70-3	Dibenz(a,h)anthracene	4.6	140	
191-24-2	Benzo(g,h,i)perylene	4.6	240	
132-64-9	Dibenzofuran	4.6	14	

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	77.3%
d14-Dibenzo(a,h)anthracen	87.0%

12 7/8/09

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20090717.b/pg52q.d
Lab Smp Id: PG52Q Client Smp ID: AHA-01-1NW(0-2.5)
Inj Date : 18-JUL-2009 00:10
Operator : VTS Inst ID: nt1.i
Smp Info : PG52Q
Misc Info : 09-16502
Comment : 1ul Injection
Method : /chem3/nt1.i/20090717.b/simpna.m
Meth Date : 18-Jul-2009 10:30 yev Quant Type: ISTD
Cal Date : 11-JUL-2009 14:37 Cal File: ic0711f.d
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	12.20000	Weight of sample extracted (g)
M	11.60000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
*	1 Naphthalene-d8	136	6.478	6.474	(1.000)	442766	2.00000	
	2 Naphthalene	128	6.496	6.498	(1.003)	114804	0.58984	27.35
$	3 2-Methylnaphthalene-d10	152	7.222	7.218	(1.115)	226937	2.32057	107.6
	4 2-Methylnaphthalene	142	7.258	7.260	(1.120)	25747	0.23812	11.04
	5 1-Methylnaphthalene	142	7.388	7.384	(1.140)	22508	0.21063	9.765
	7 Acenaphthylene	152	8.333	8.329	(0.979)	662737	4.30920	199.8
*	8 Acenaphthene-d10	164	8.510	8.506	(1.000)	198942	2.00000	
	9 Acenaphthene	153	8.546	8.548	(1.004)	19763	0.20497	9.503
	10 Dibenzofuran	168	8.735	8.737	(1.026)	42221	0.30222	14.01
	11 Fluorene	166	9.154	9.156	(1.076)	108129	1.08642	50.37
*	15 Phenanthrene-d10	188	10.306	10.302	(1.000)	311497	2.00000	
	16 Phenanthrene	178	10.336	10.332	(1.003)	1830535	12.6731 E	587.5
	17 Anthracene	178	10.389	10.391	(1.008)	360298	2.50142	116.0
	19 Fluoranthene	202	11.825	11.815	(1.147)	3313271	24.9019 E	1154

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.108	12.098	(0.890)	4510079	26.1106 E	1211
	22 Benzo(a)anthracene	228	13.585	13.581	(0.999)	1851981	15.2672 E	707.8
*	23 Chrysene-d12	240	13.603	13.599	(1.000)	257920	2.00000	
	24 Chrysene	228	13.639	13.634	(1.003)	2144189	16.8915 E	783.1
	28 Benzo(b)fluoranthene	252	14.873	14.846	(0.973)	2733219	Σ 23.6469 / 11.423	1096 E
	29 Benzo(k)fluoranthene	252	14.873	14.869	(0.973)	2733219	Σ 22.0476 / 11.423	1022 E
	30 Benzo(a)pyrene	252	15.222	15.218	(0.996)	1790090	18.4125 E	853.6
*	31 Perylene-d12	264	15.281	15.277	(1.000)	231086	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	16.652	16.648	(1.090)	599582	6.05423 /	280.7
$	32 Dibenz(a,h)anthrancene-d14	292	16.598	16.594	(1.086)	149138	2.61298 /	121.1
	34 Dibenz(a,h)anthracene	278	16.640	16.642	(1.089)	223991	2.99203 /	138.7
	35 Benzo(g,h,i)perylene	276	17.047	17.043	(1.116)	489136	5.28065 /	244.8

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: pg52q.d
Lab Smp Id: PG52Q
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20090717.b/simpna.m
Misc Info: 09-16502

Calibration Date: 17-JUL-2009
Calibration Time: 13:57
Client Smp ID: AHA-01-1NW(0-2.5)
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	463169	231584	926338	442766	-4.41
8 Acenaphthene-d10	213444	106722	426888	198942	-6.79
15 Phenanthrene-d10	326462	163231	652924	311497	-4.58
23 Chrysene-d12	224038	112019	448076	257920	15.12
31 Perylene-d12	206230	103115	412460	231086	12.05

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.47	5.97	6.97	6.48	0.06
8 Acenaphthene-d10	8.51	8.01	9.01	8.51	0.05
15 Phenanthrene-d10	10.30	9.80	10.80	10.31	0.04
23 Chrysene-d12	13.60	13.10	14.10	13.60	0.03
31 Perylene-d12	15.28	14.78	15.78	15.28	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA
Sample Matrix: SOLID
Lab Smp Id: PG52Q
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: pna1mn.sub
Method File: /chem3/nt1.i/20090717.b/simpna.m
Misc Info: 09-16502

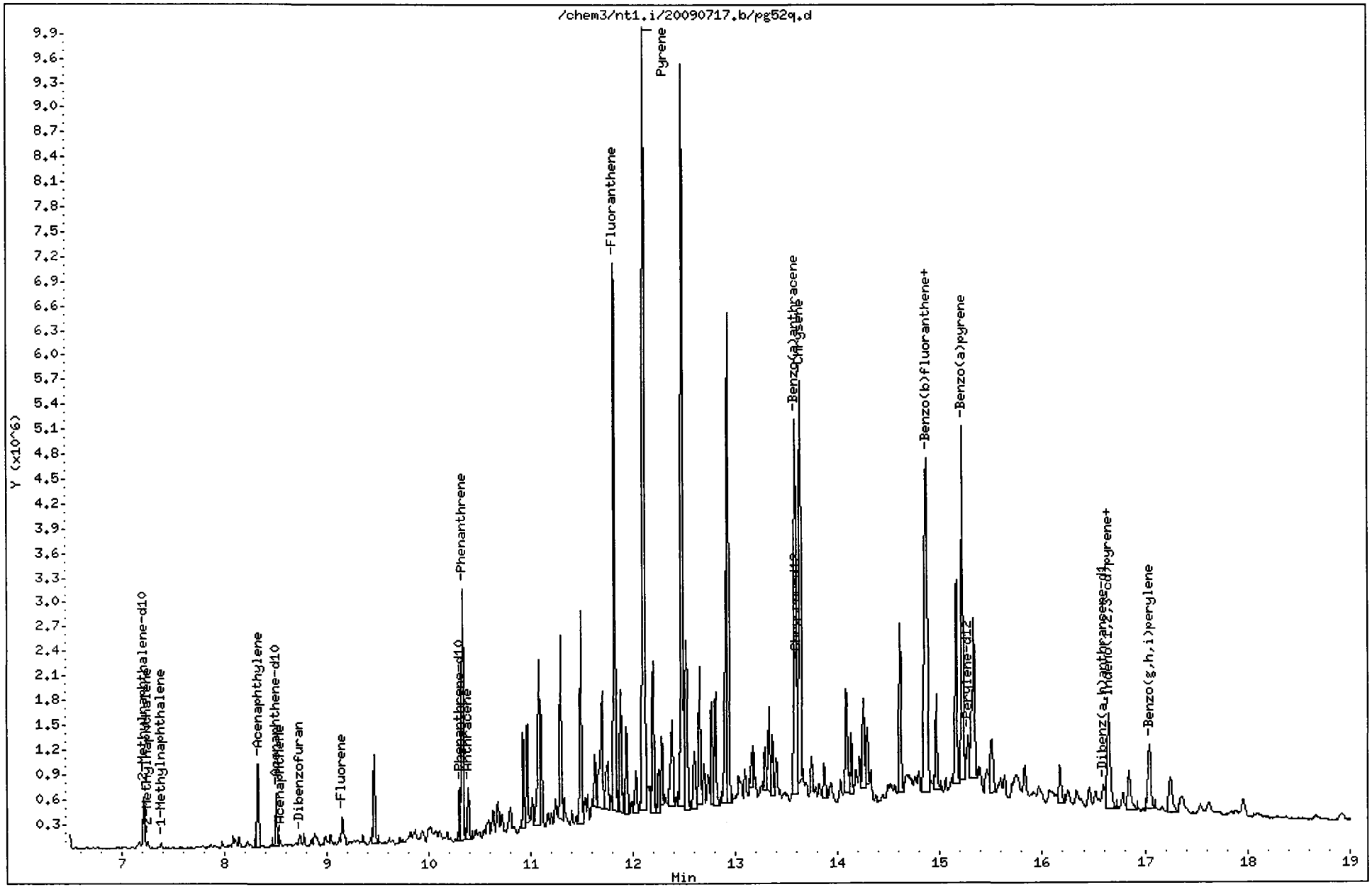
Client SDG: PG52
Fraction: SV
Client Smp ID: AHA-01-1NW(0-2.5)
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	139.1	107.6	77.35	34-100
$ 32 Dibenz(a,h)anthran	139.1	121.1	87.10	10-117

Data File: /chem3/nt1.i/20090717.b/pg52q.d
Date : 18-JUL-2009 00:10
Client ID: AHA-01-1NW(0-2.5)
Sample Info: PG52Q
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

PG52 : 00179



Data File: /chem3/nt1.i/20090717.b/pg52q.d

Date : 18-JUL-2009 00:10

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

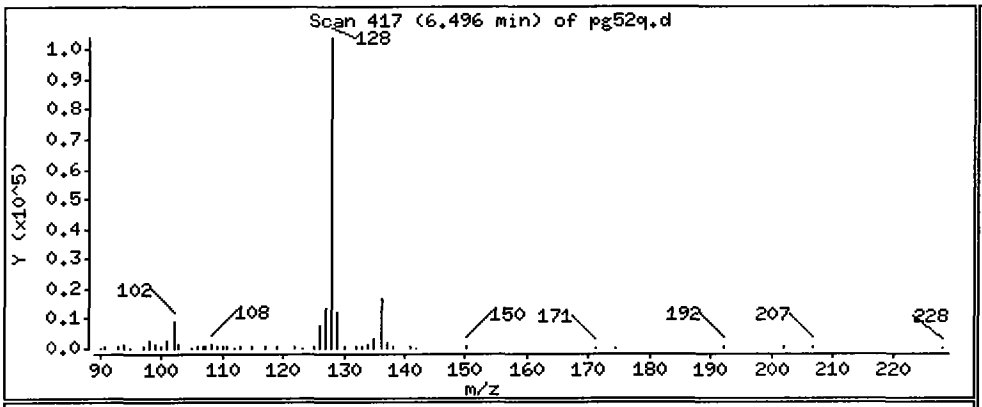
Operator: VTS

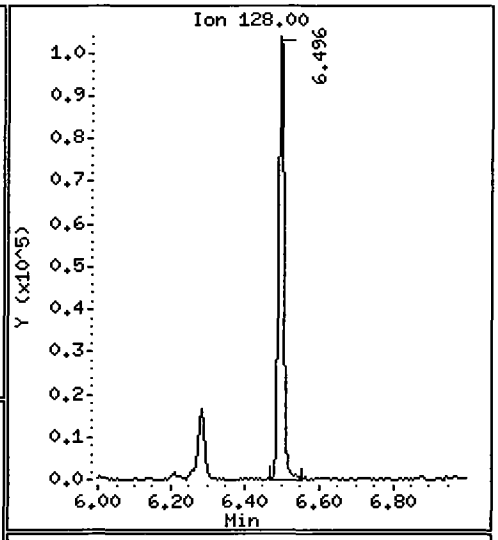
Column phase: ZB-5msi

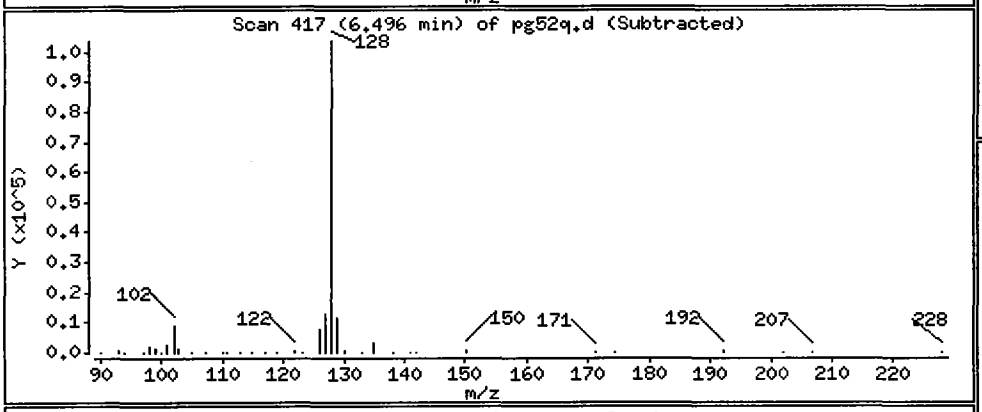
Column diameter: 0.25

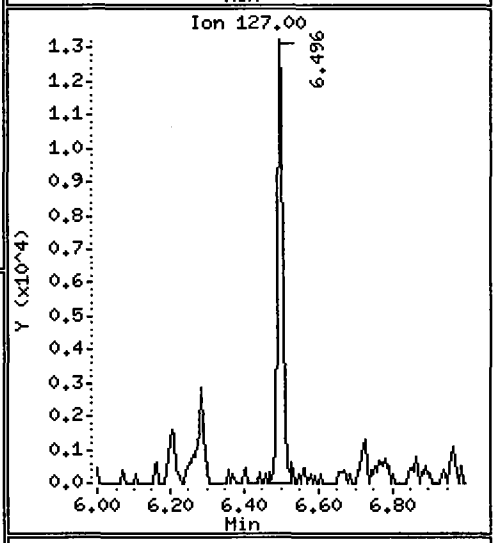
2 Naphthalene

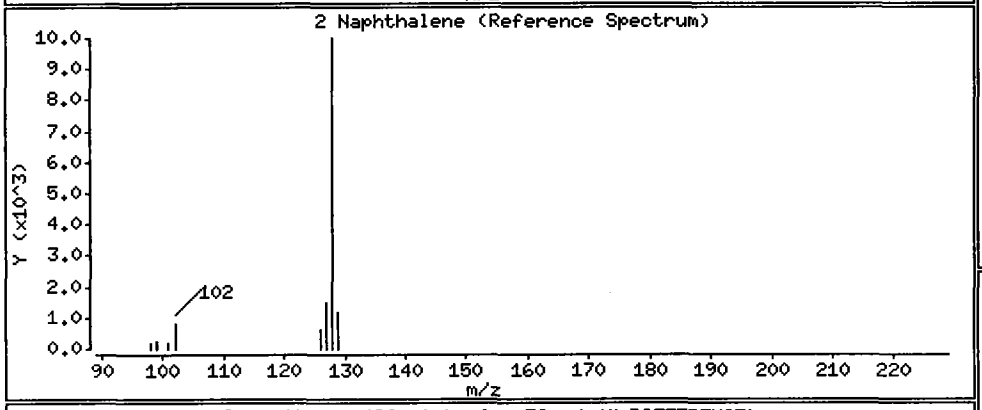
Concentration: 27.35 ug/kg

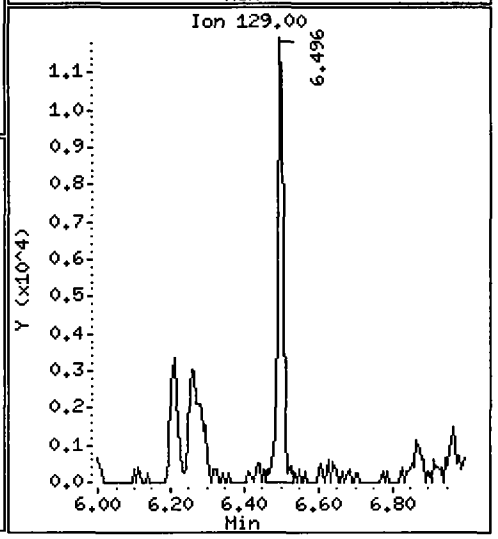


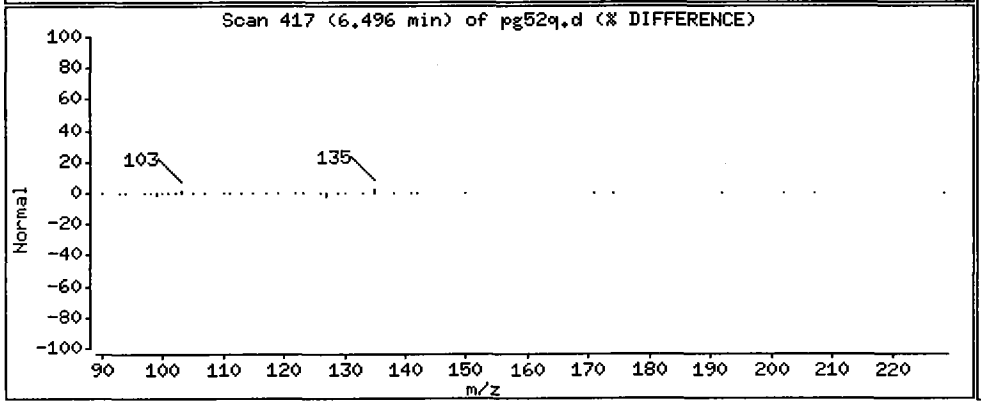












Data File: /chem3/nt1.i/20090717.b/pg52q.d

Date : 18-JUL-2009 00:10

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

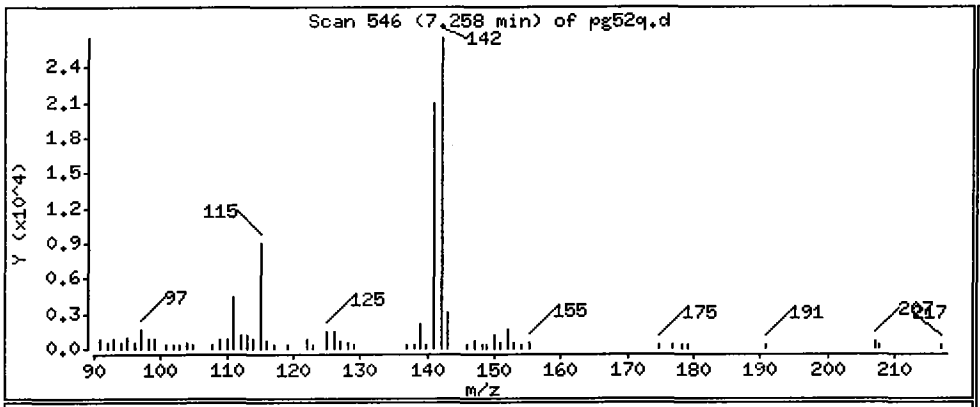
Operator: VTS

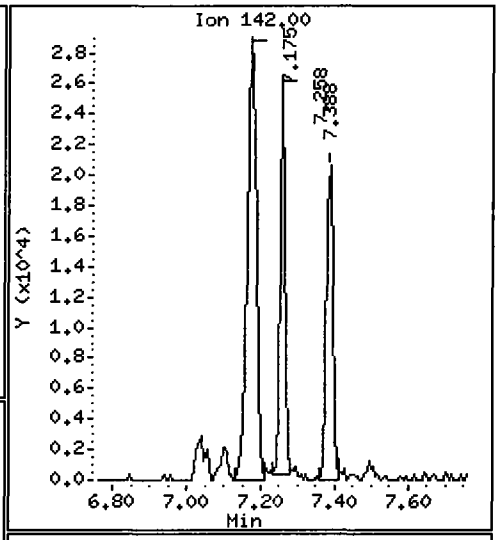
Column phase: ZB-5msi

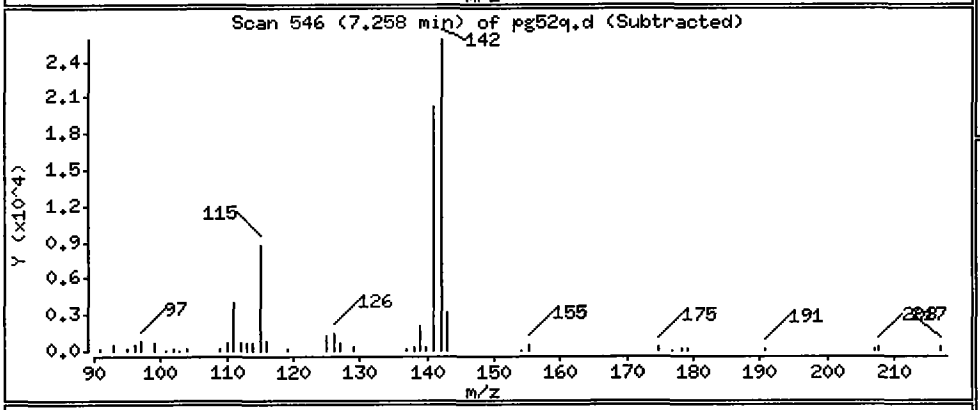
Column diameter: 0.25

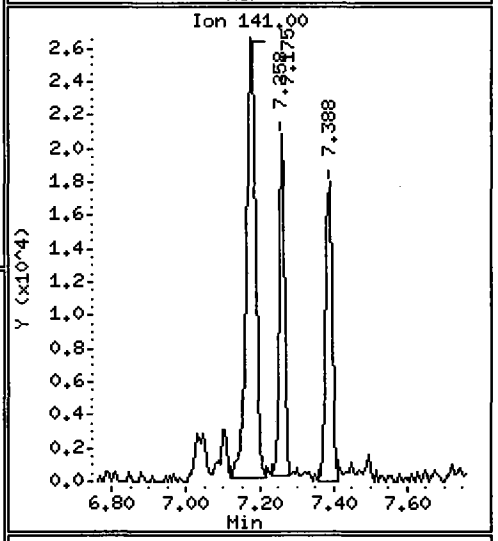
4 2-Methylnaphthalene

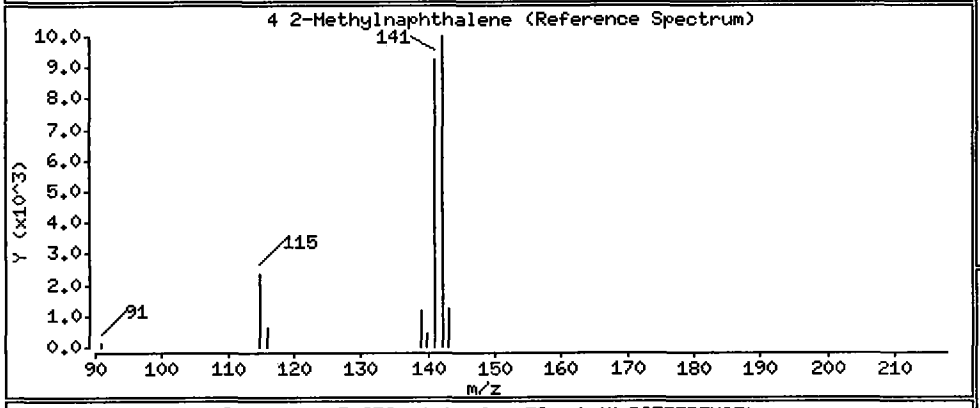
Concentration: 11.04 ug/kg

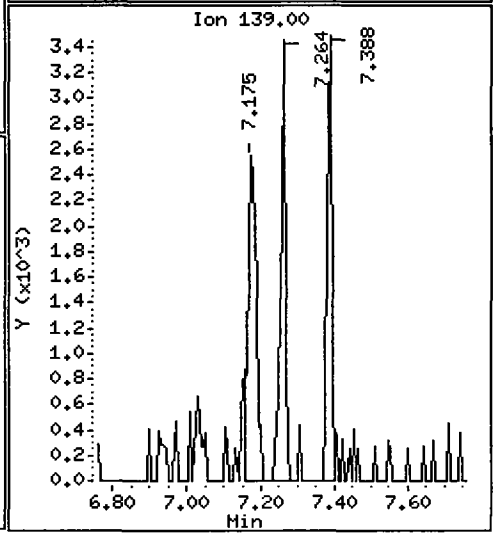


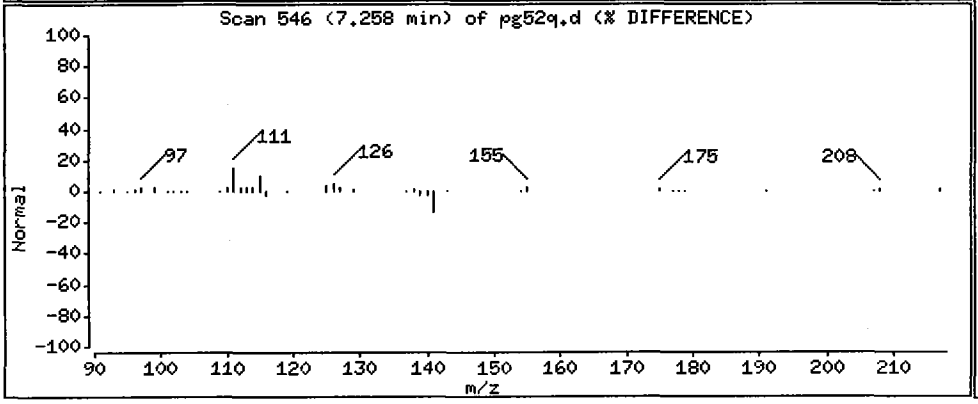












Data File: /chem3/nt1.i/20090717.b/pg52q.d

Date : 18-JUL-2009 00:10

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

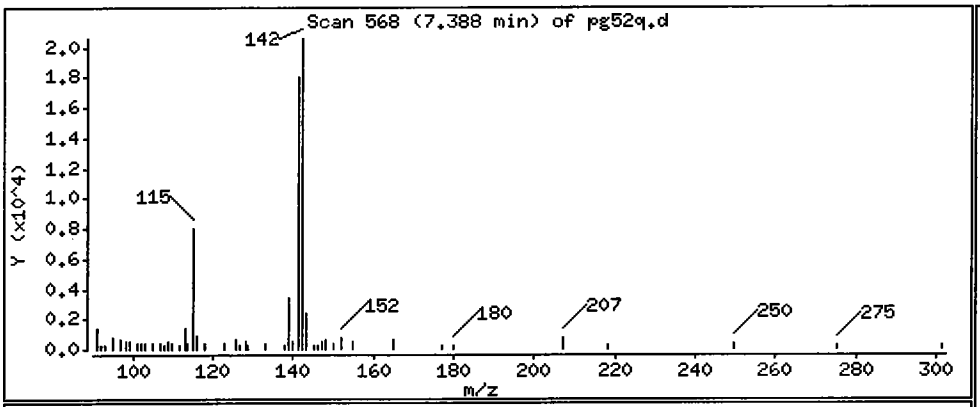
Operator: VTS

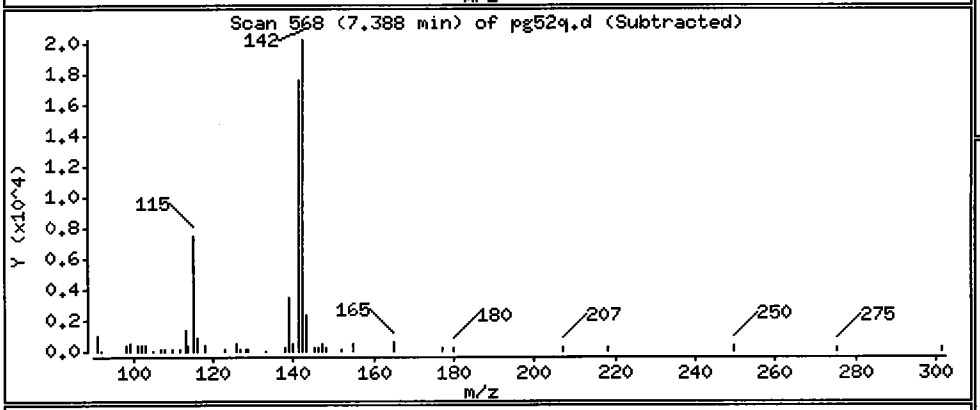
Column phase: ZB-5msi

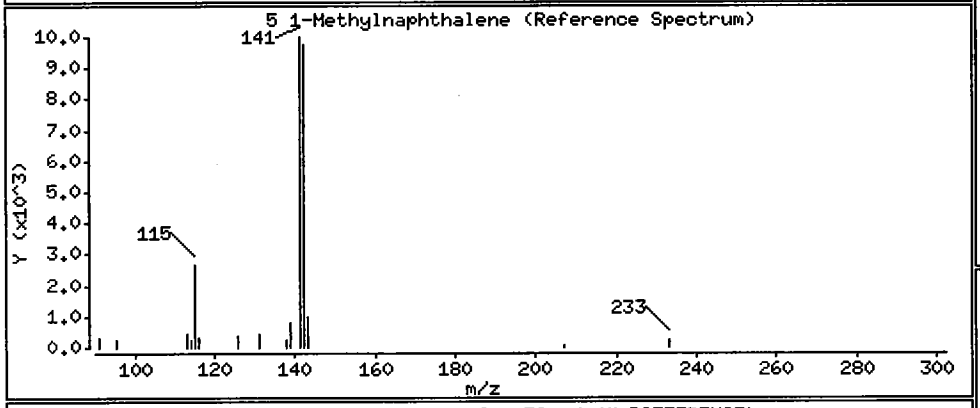
Column diameter: 0.25

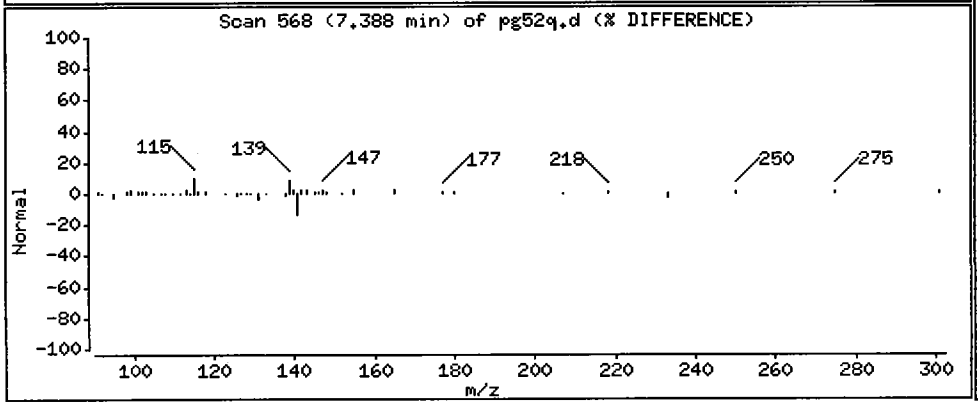
5 1-Methylnaphthalene

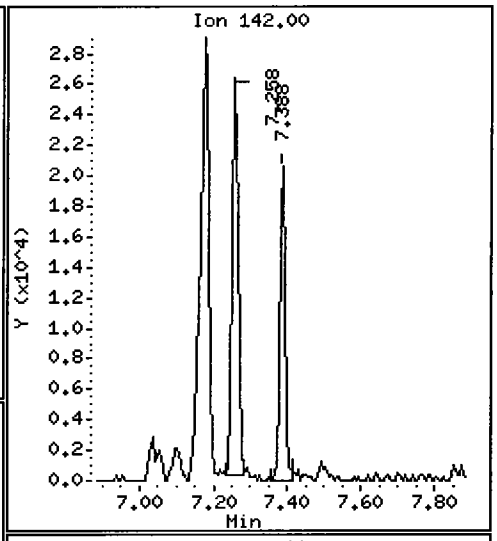
Concentration: 9.765 ug/kg

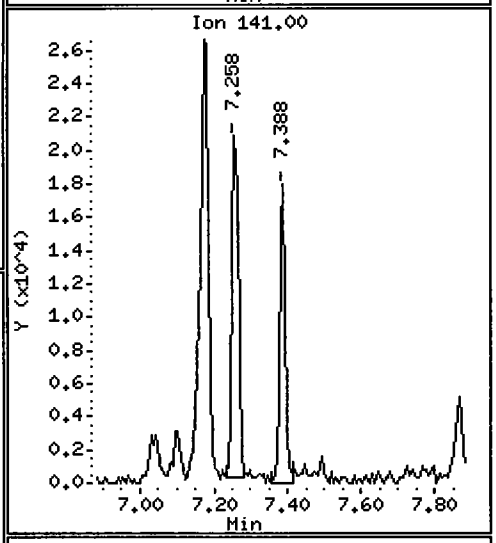


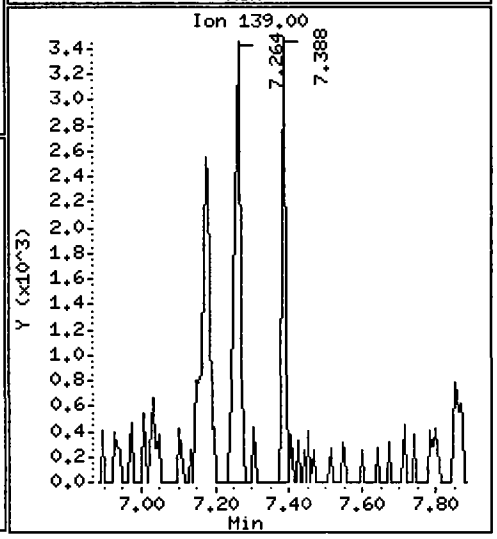












Data File: /chem3/nt1.i/20090717.b/pg52q.d

Date : 18-JUL-2009 00:10

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

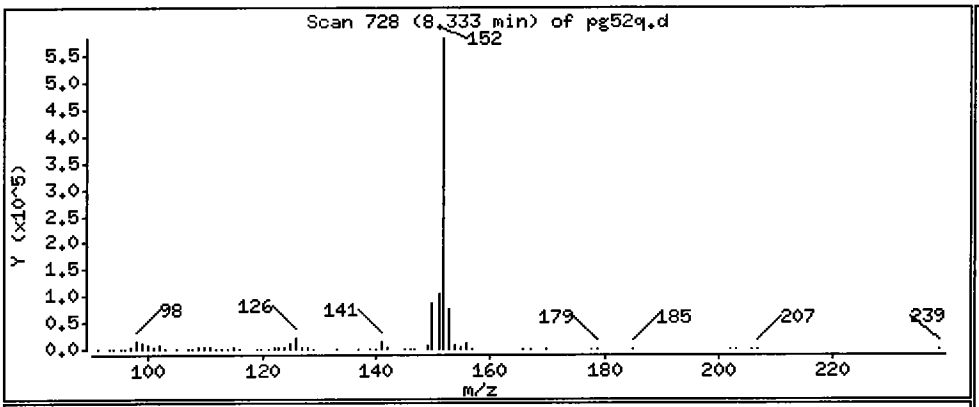
Operator: VTS

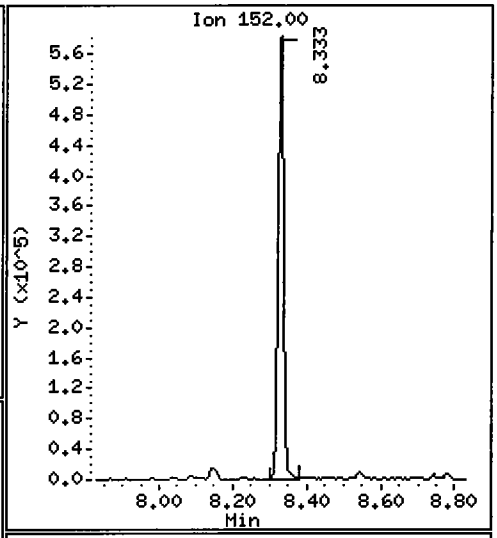
Column phase: ZB-5msi

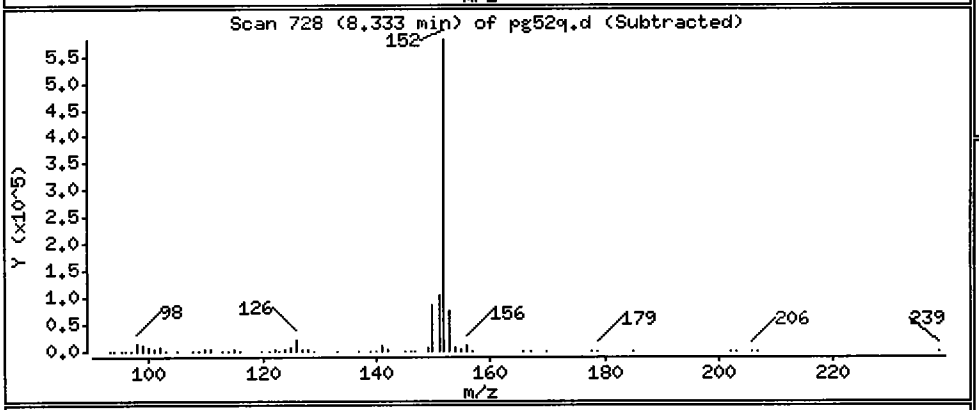
Column diameter: 0.25

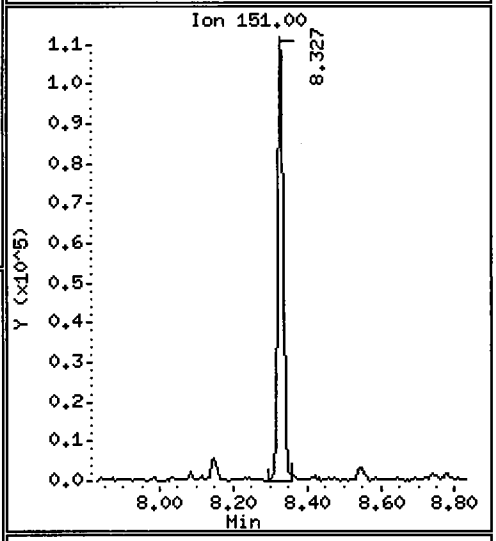
7 Acenaphthylene

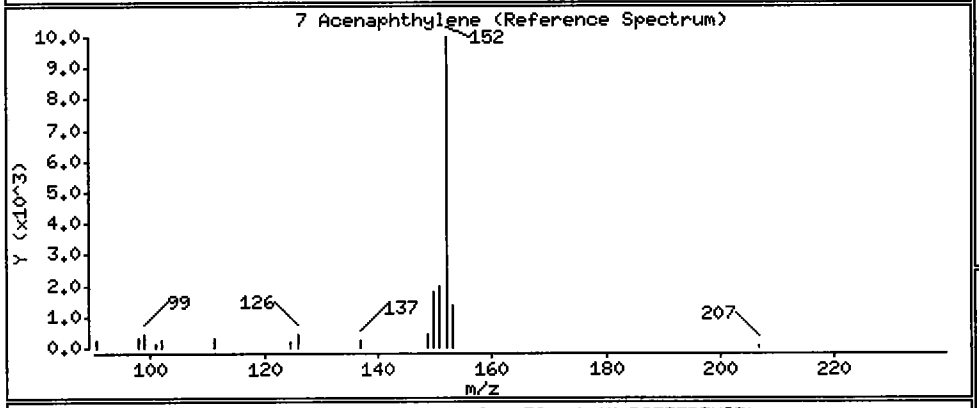
Concentration: 199.8 ug/kg

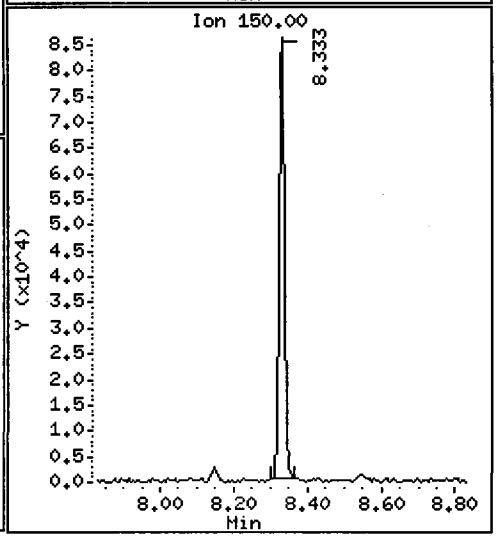


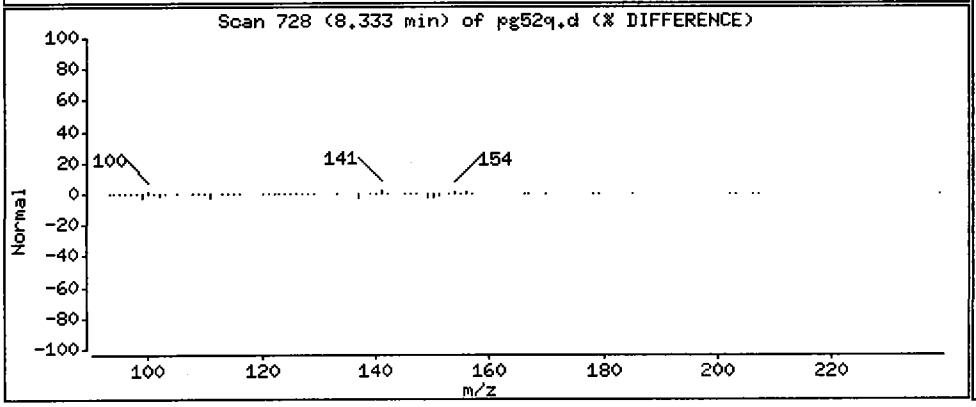












Data File: /chem3/nt1.i/20090717.b/pg52q.d

Date : 18-JUL-2009 00:10

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

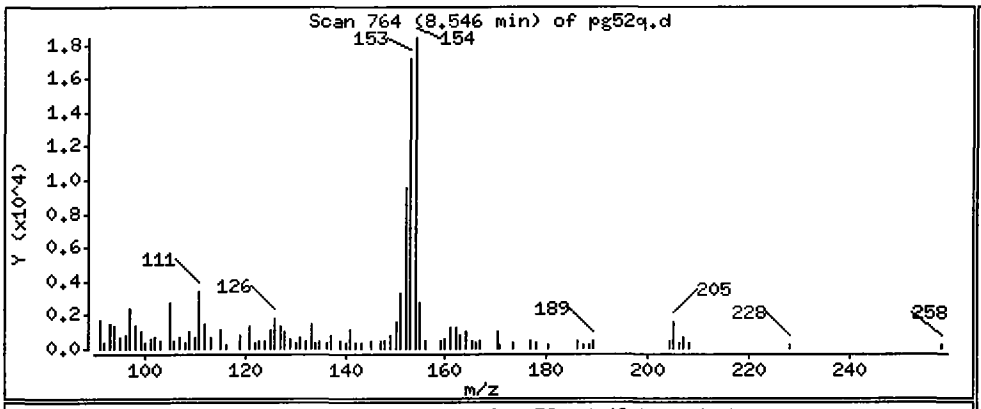
Operator: VTS

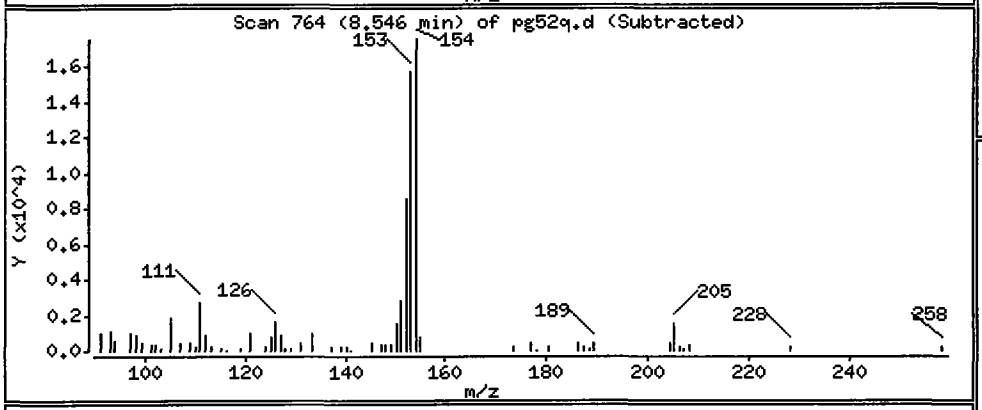
Column phase: ZB-5msi

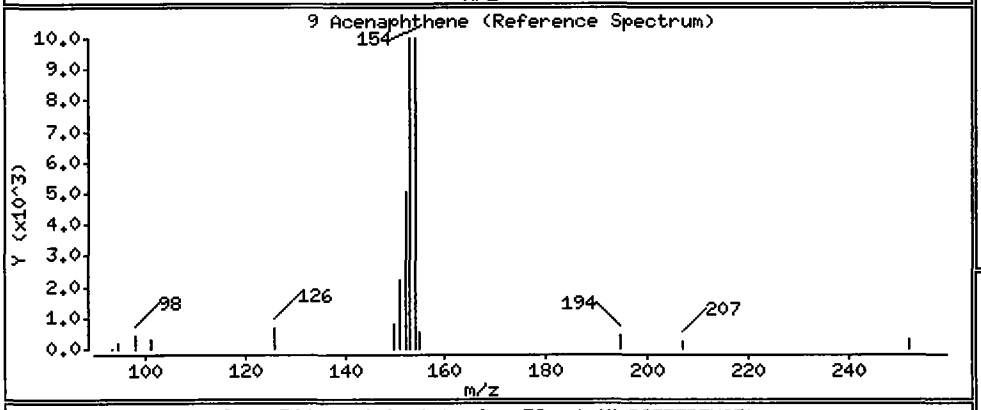
Column diameter: 0.25

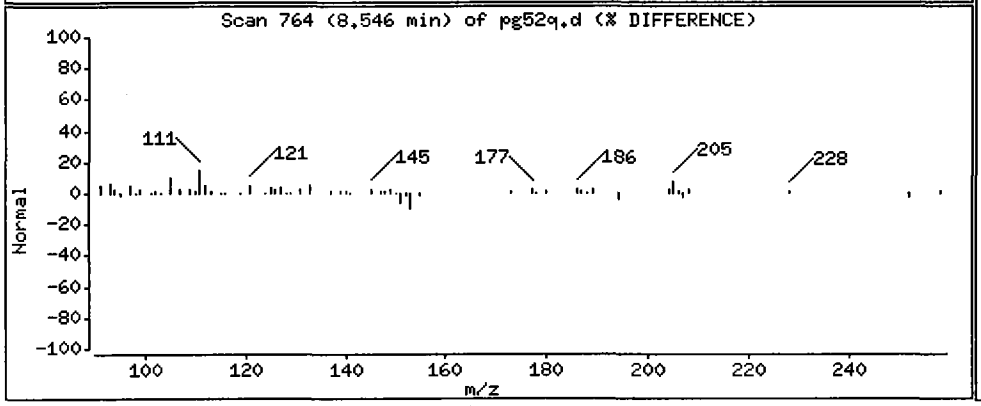
9 Acenaphthene

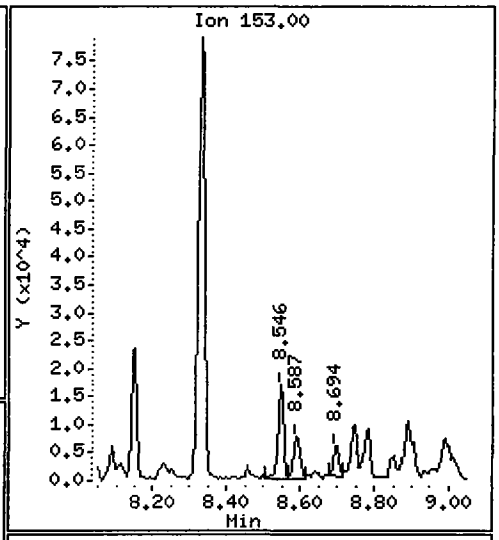
Concentration: 9.503 ug/kg

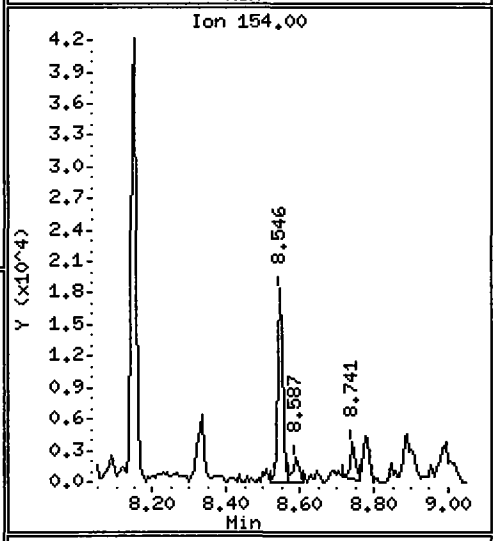


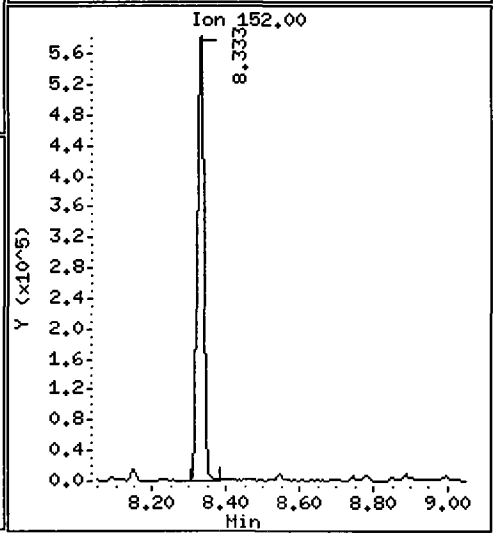












Data File: /chem3/nt1.i/20090717.b/pg52q.d

Date : 18-JUL-2009 00:10

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

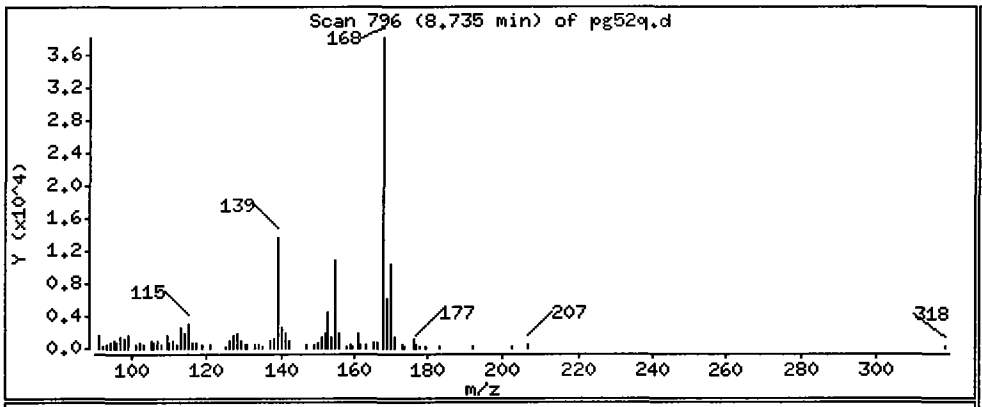
Operator: VTS

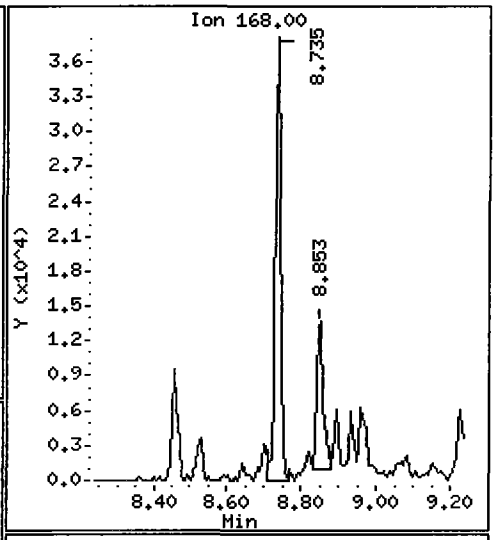
Column phase: ZB-5msi

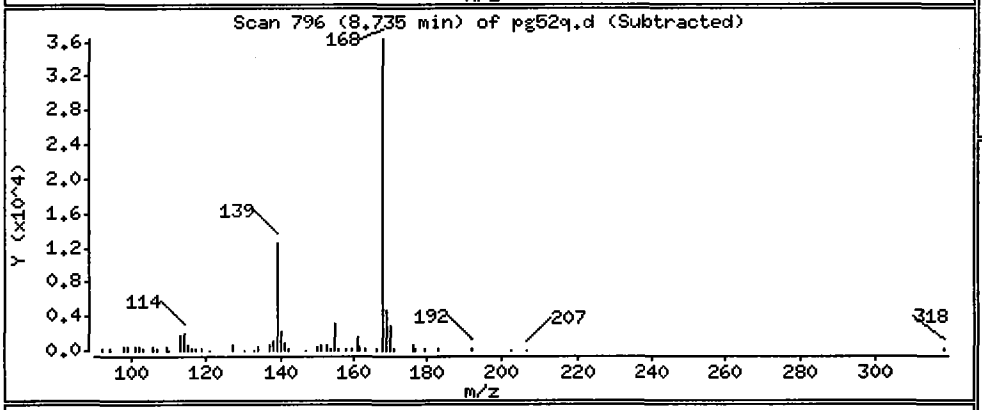
Column diameter: 0.25

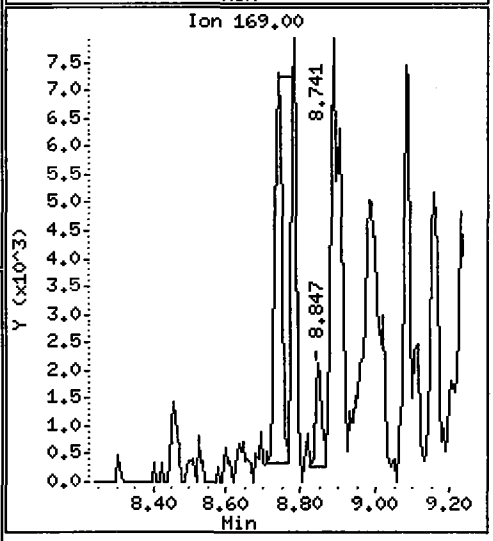
10 Dibenzofuran

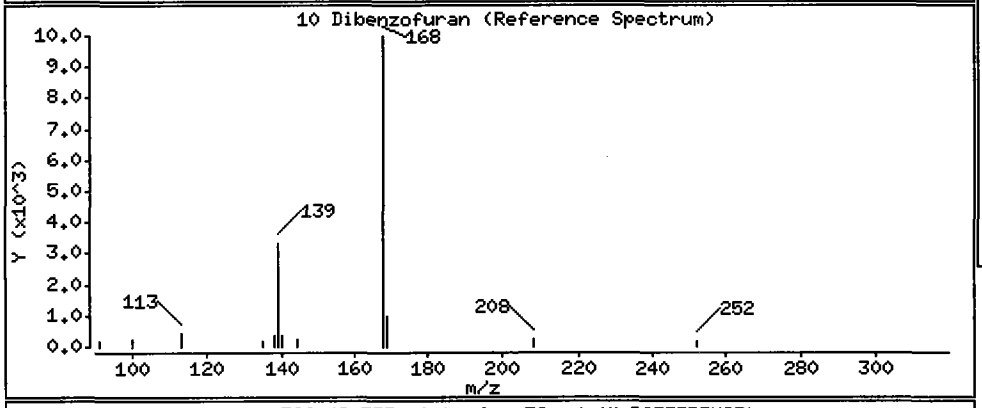
Concentration: 14.01 ug/kg

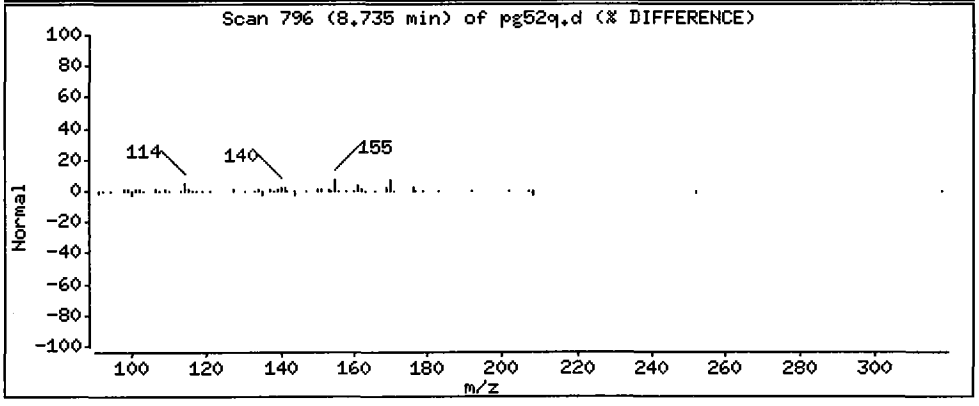












Data File: /chem3/nt1.i/20090717.b/pg52q.d

Date : 18-JUL-2009 00:10

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

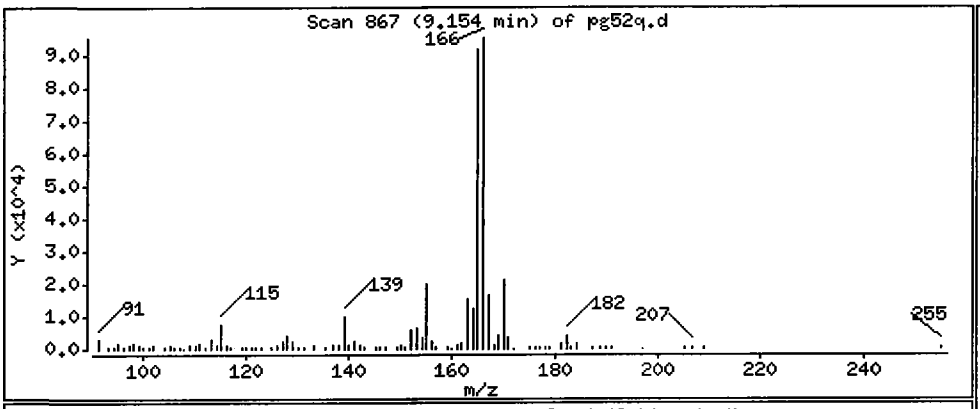
Operator: VTS

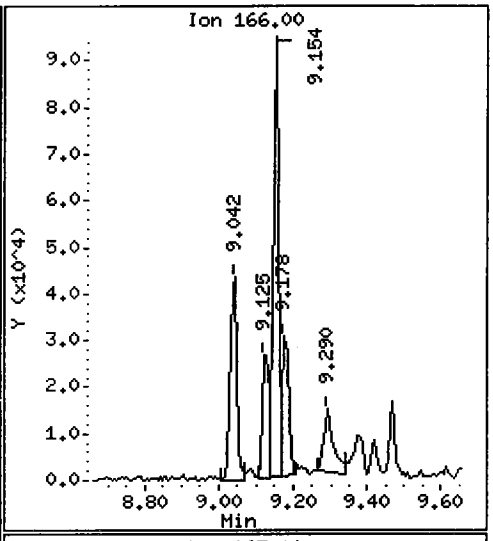
Column phase: ZB-5msi

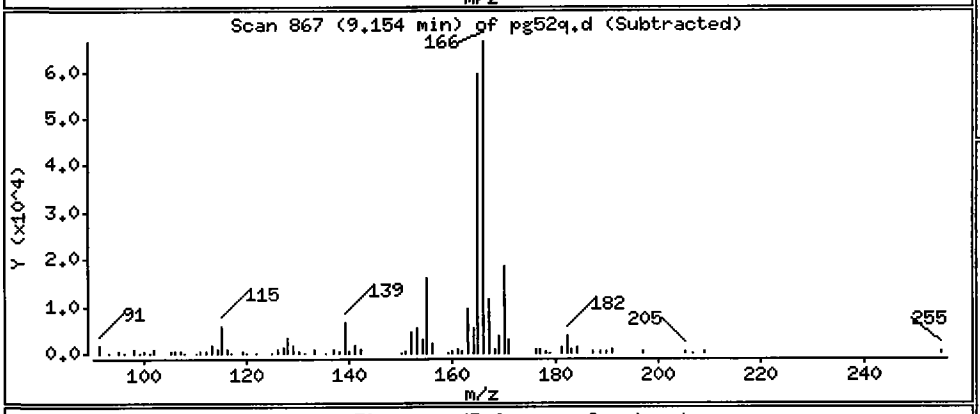
Column diameter: 0.25

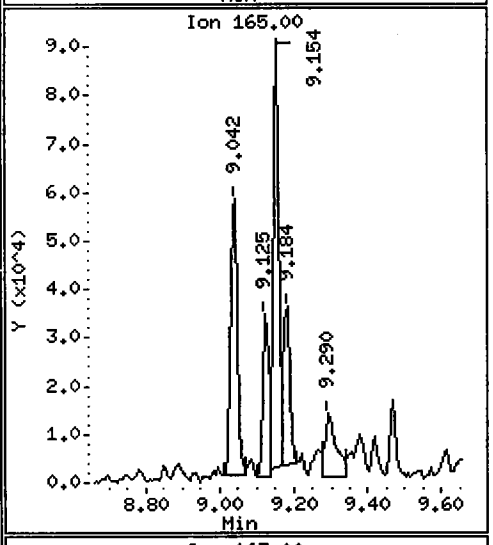
11 Fluorene

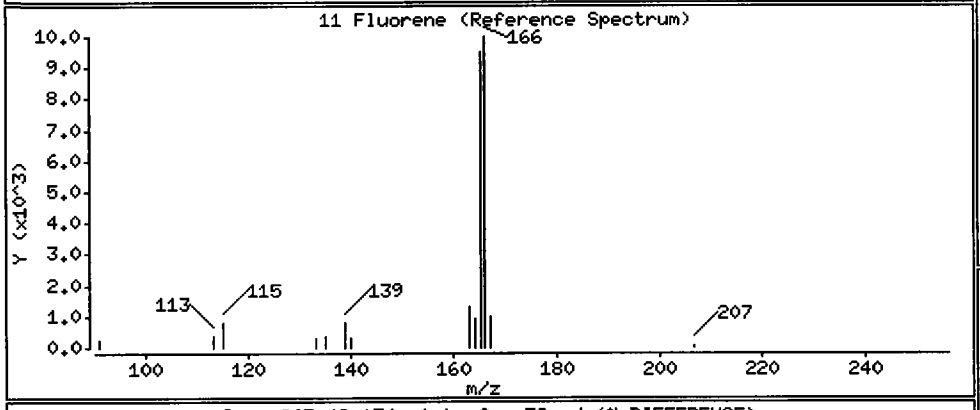
Concentration: 50.37 ug/kg

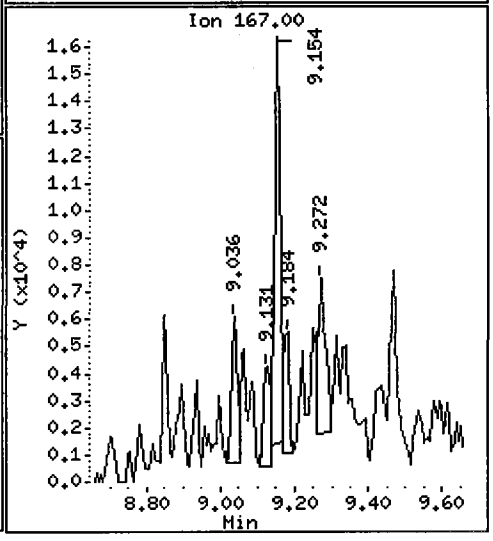


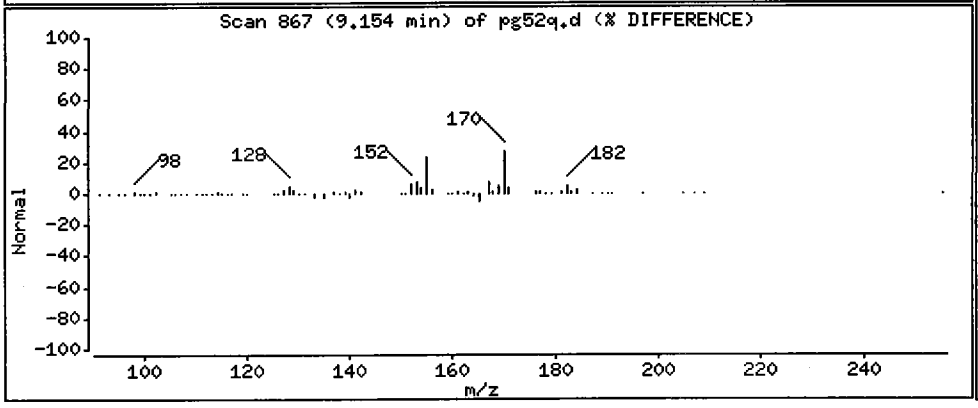












Data File: /chem3/nt1.i/20090717.b/pg52q.d

Date : 18-JUL-2009 00:10

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

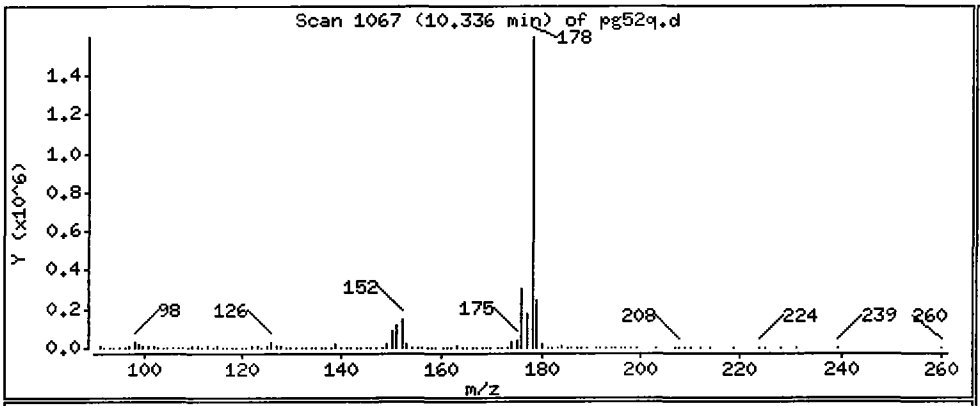
Operator: VTS

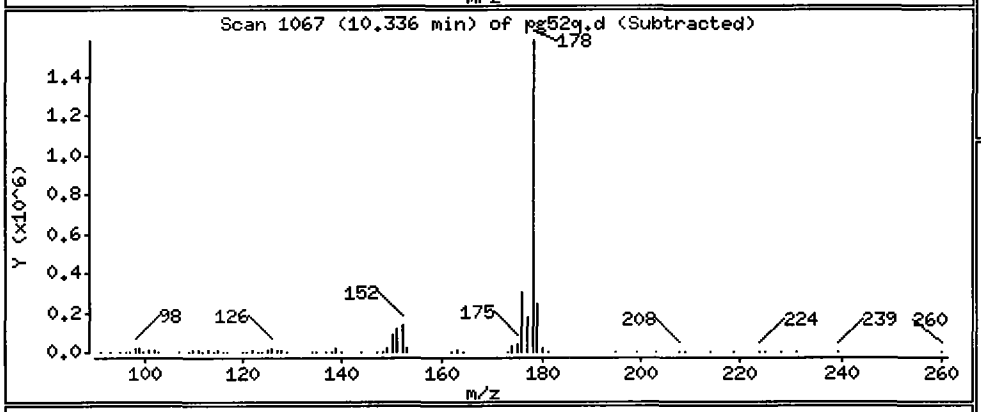
Column phase: ZB-5msi

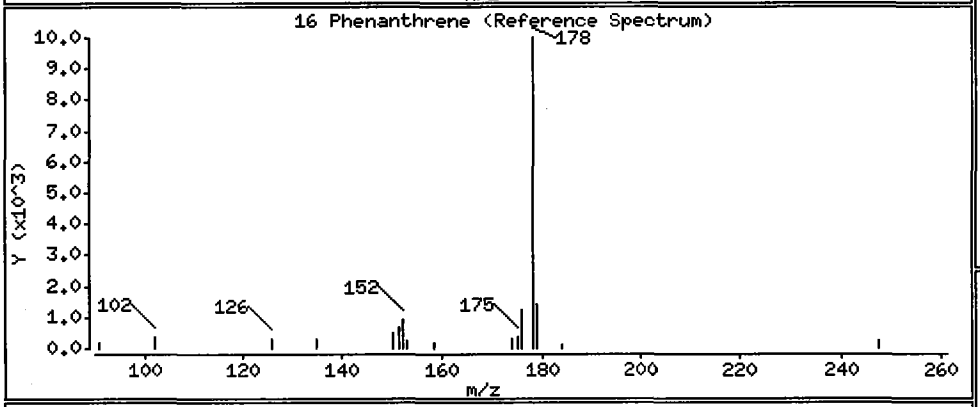
Column diameter: 0.25

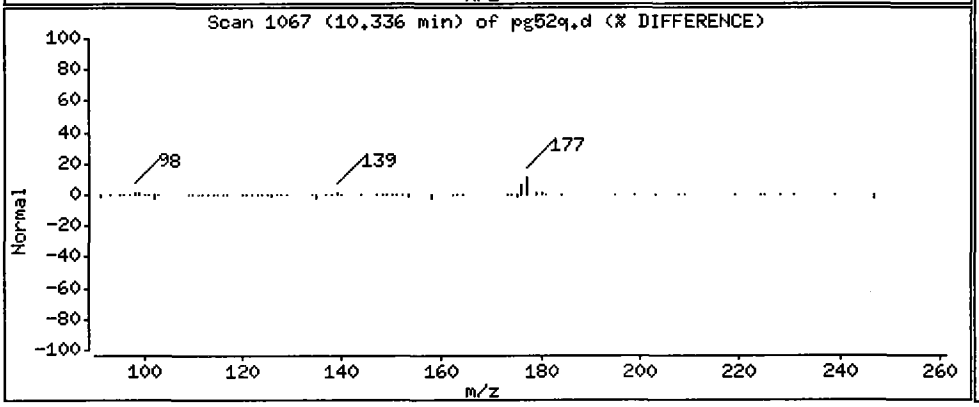
16 Phenanthrene

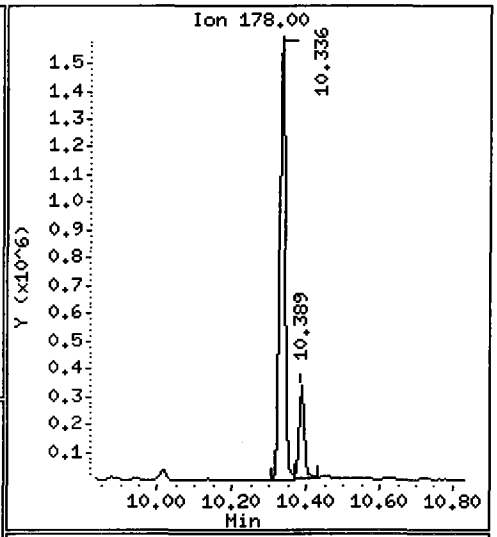
Concentration: 587.5 ug/kg

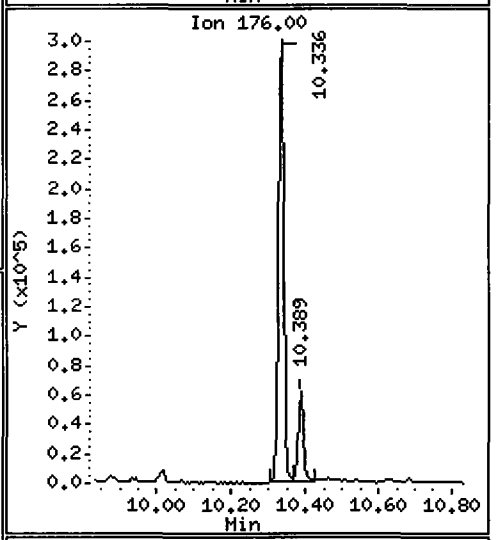


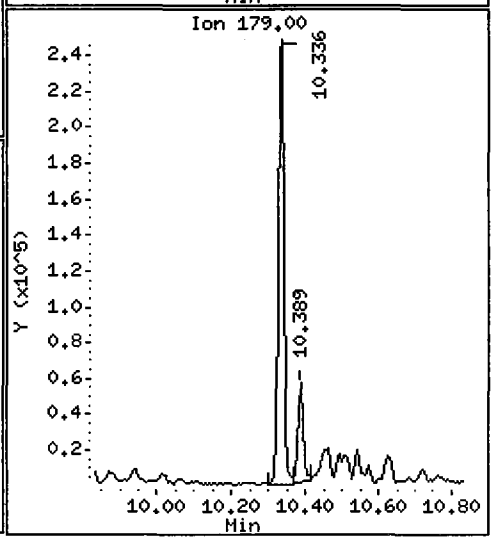












Data File: /chem3/nt1.i/20090717.b/pg52q.d

Date : 18-JUL-2009 00:10

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

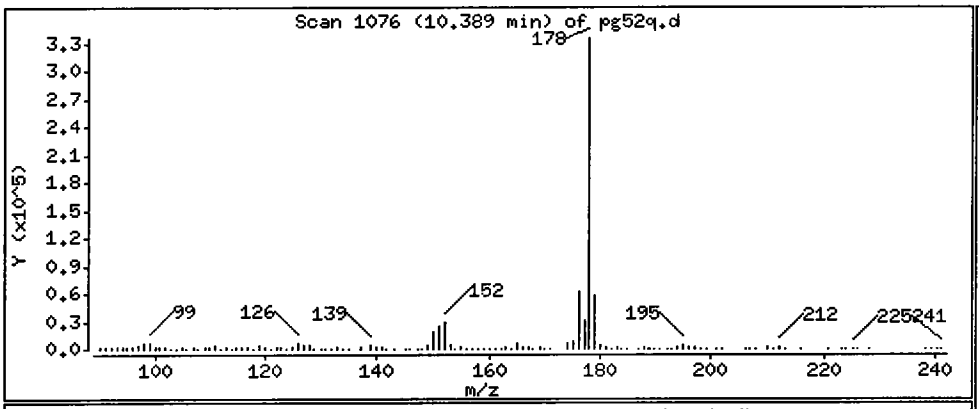
Operator: VTS

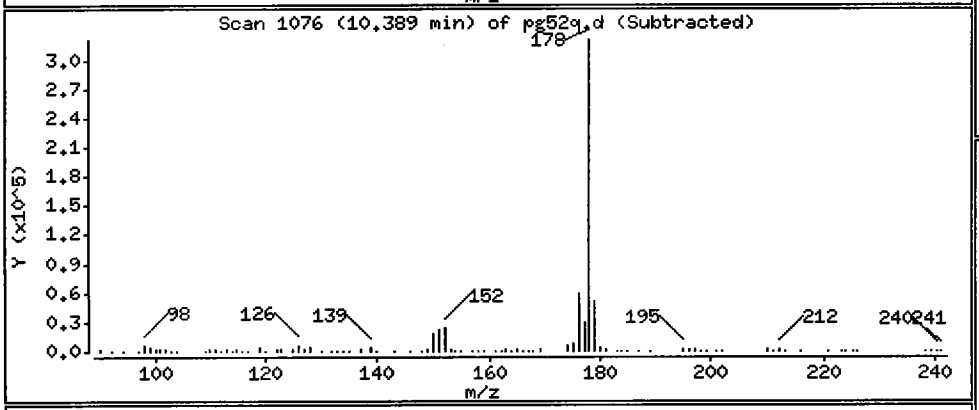
Column phase: ZB-5msi

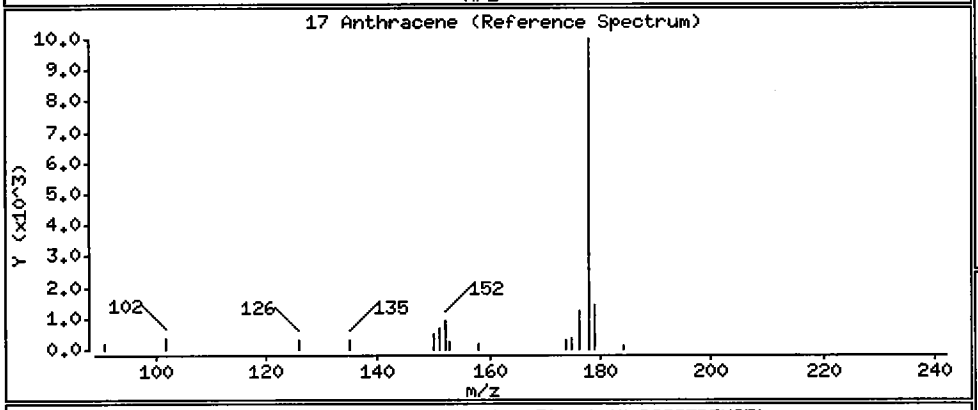
Column diameter: 0.25

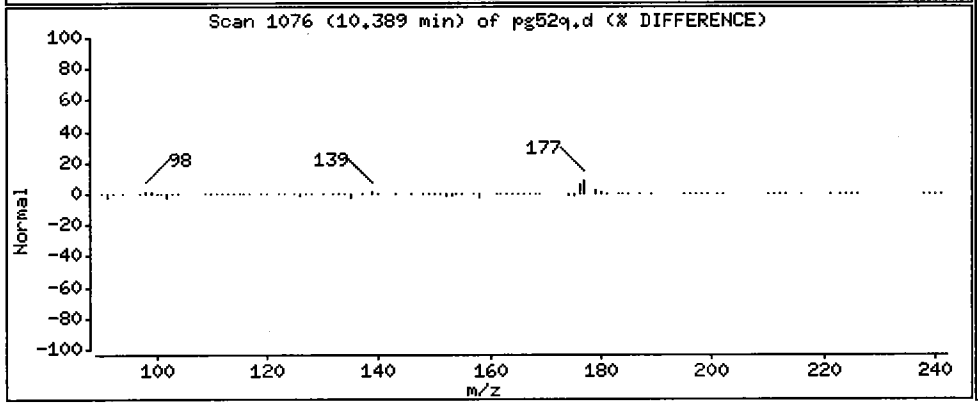
17 Anthracene

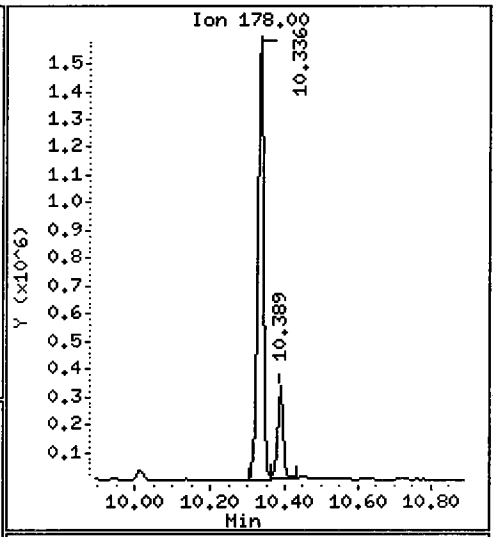
Concentration: 116.0 ug/kg

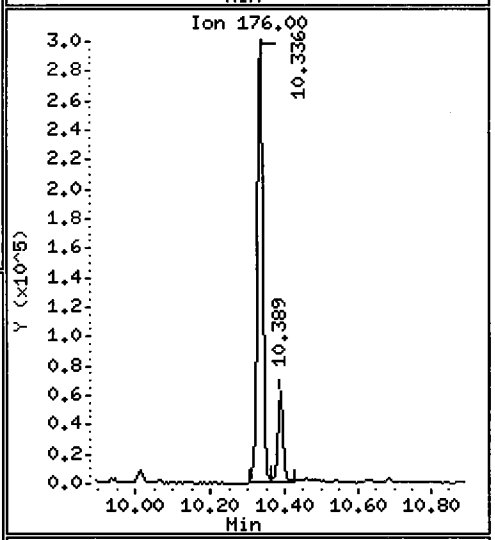


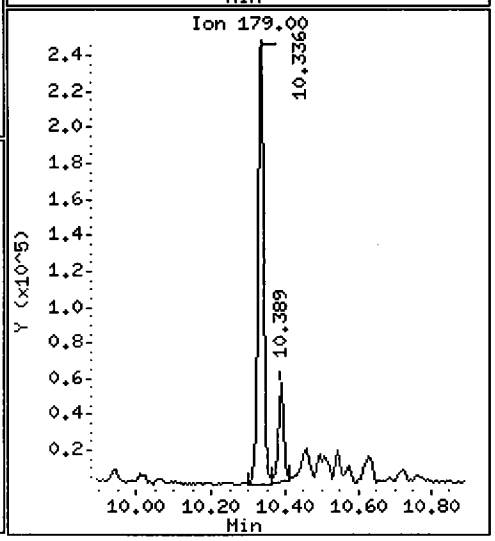












Data File: /chem3/nt1.i/20090717.b/pg52q.d

Date : 18-JUL-2009 00:10

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

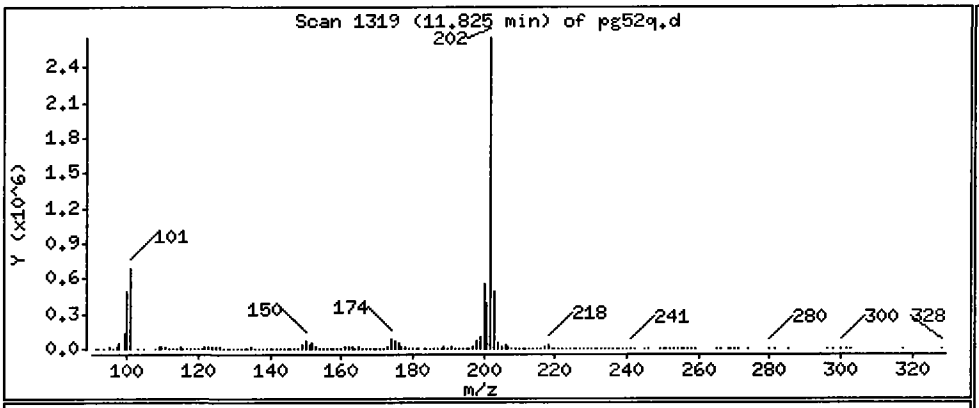
Operator: VTS

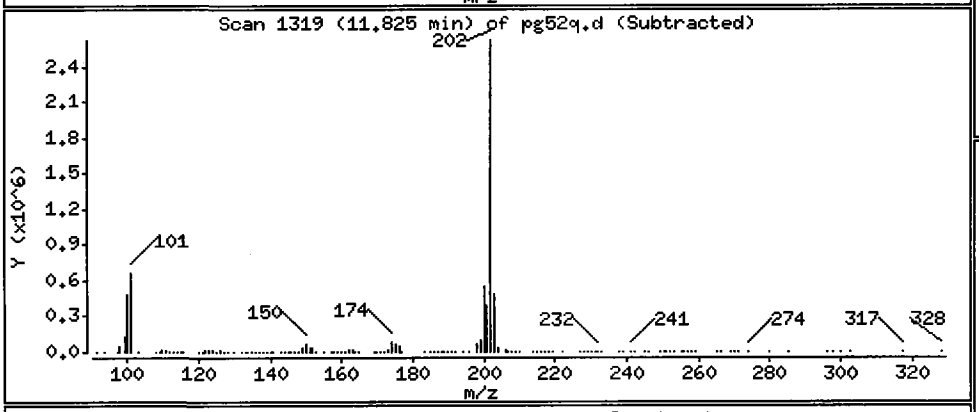
Column phase: ZB-5msi

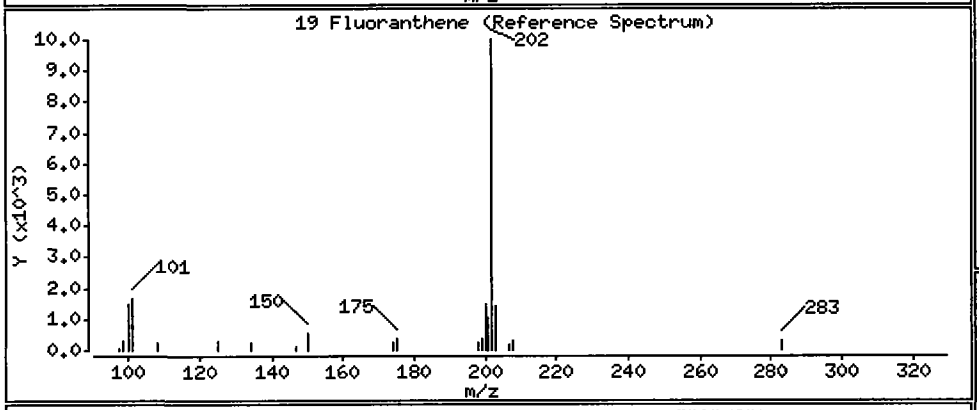
Column diameter: 0.25

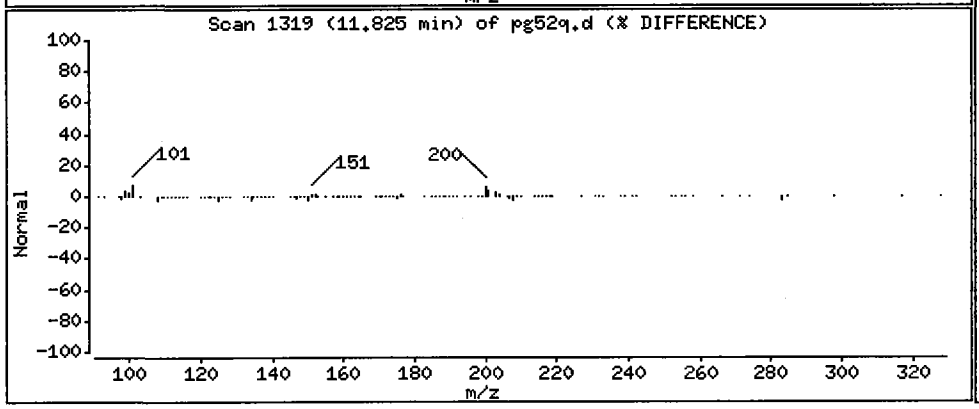
19 Fluoranthene

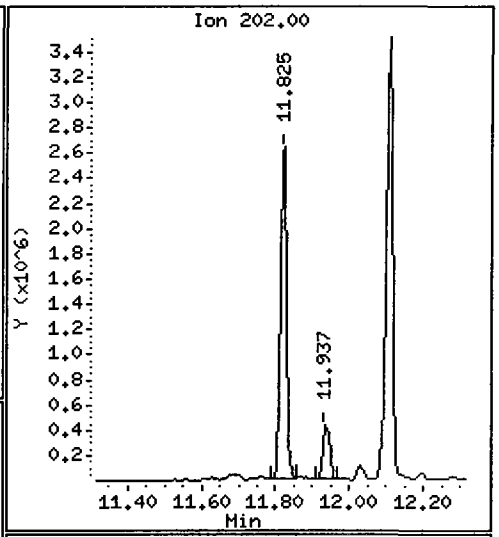
Concentration: 1154 ug/kg

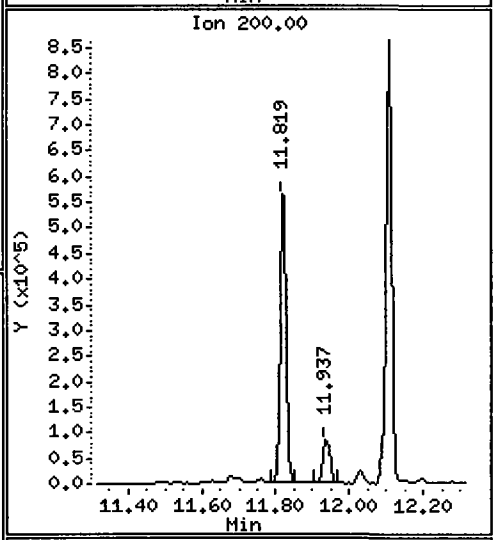


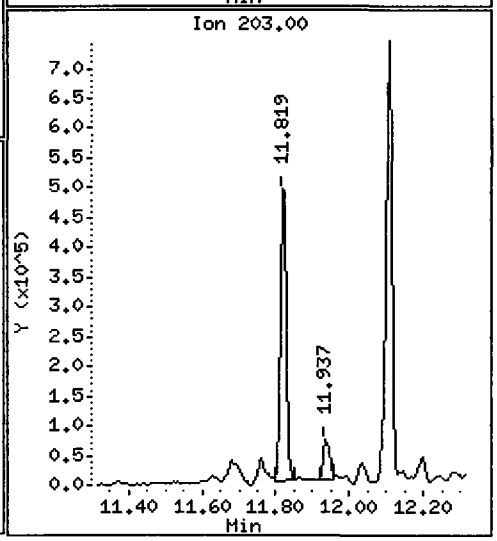












Data File: /chem3/nt1.i/20090717.b/pg52q.d

Date : 18-JUL-2009 00:10

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

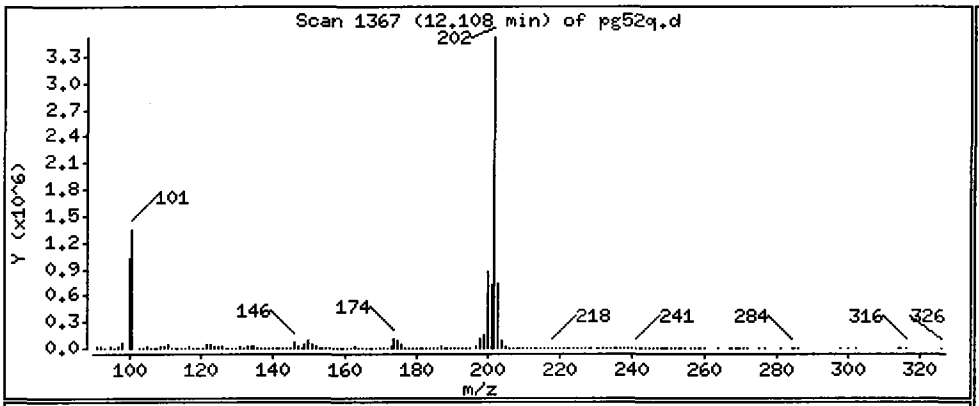
Operator: VTS

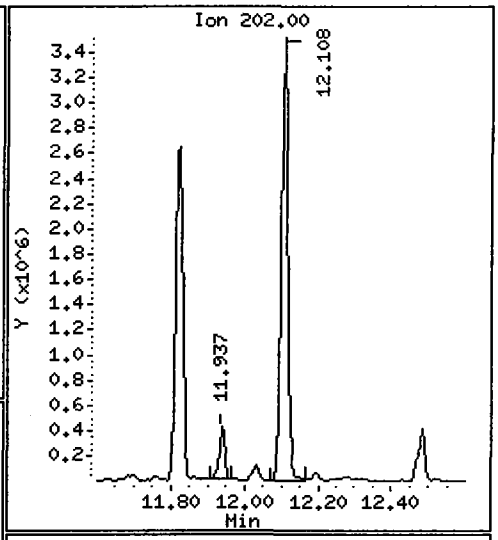
Column phase: ZB-5msi

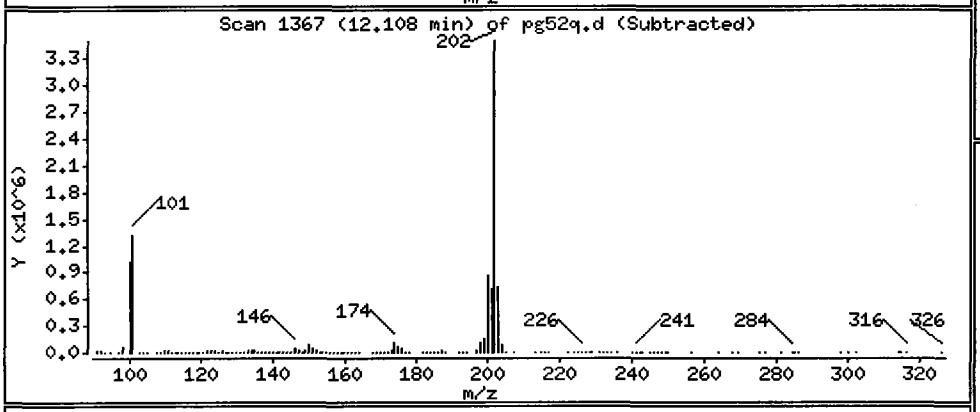
Column diameter: 0.25

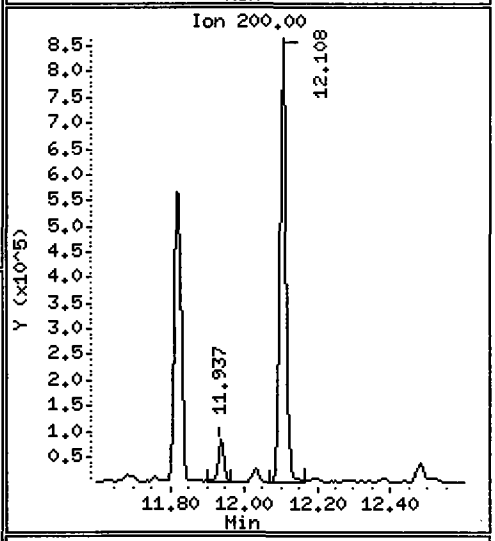
20 Pyrene

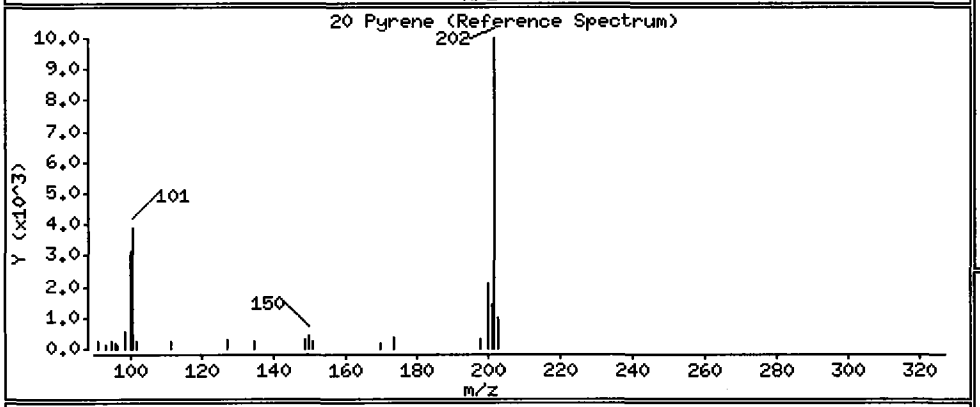
Concentration: 1211 ug/kg

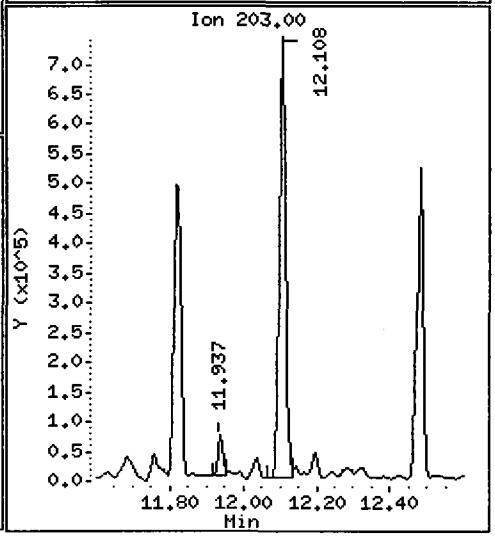


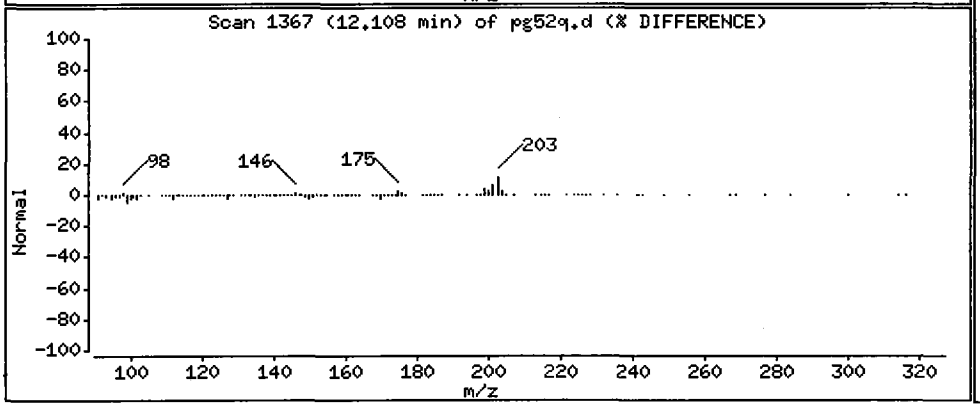












Data File: /chem3/nt1.i/20090717.b/pg52q.d

Date : 18-JUL-2009 00:10

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

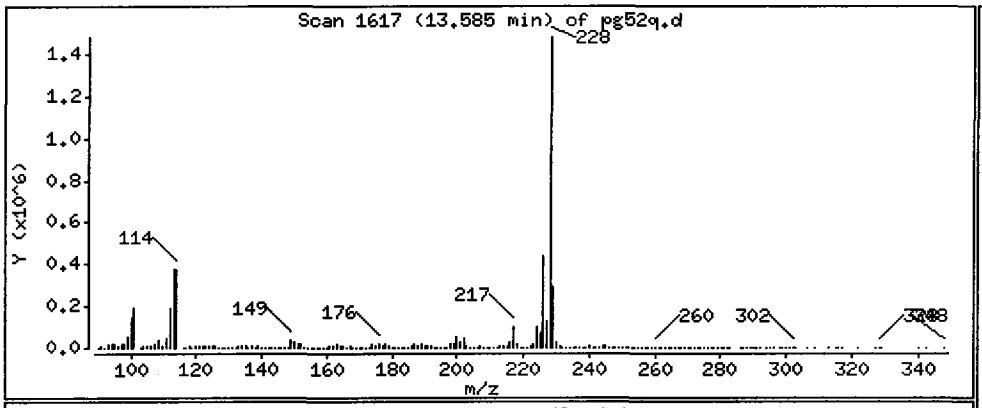
Operator: VTS

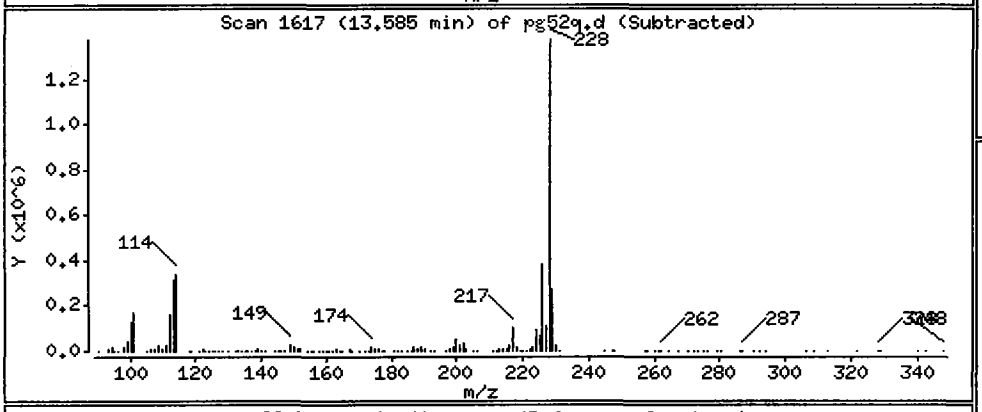
Column phase: ZB-5msi

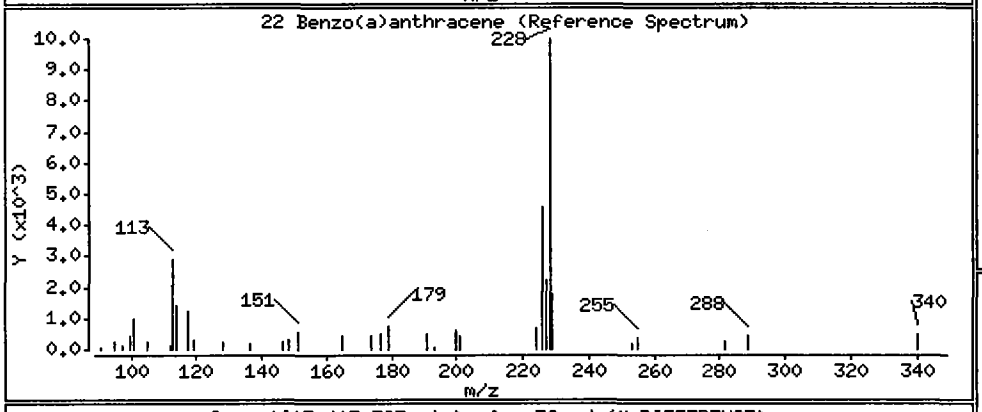
Column diameter: 0.25

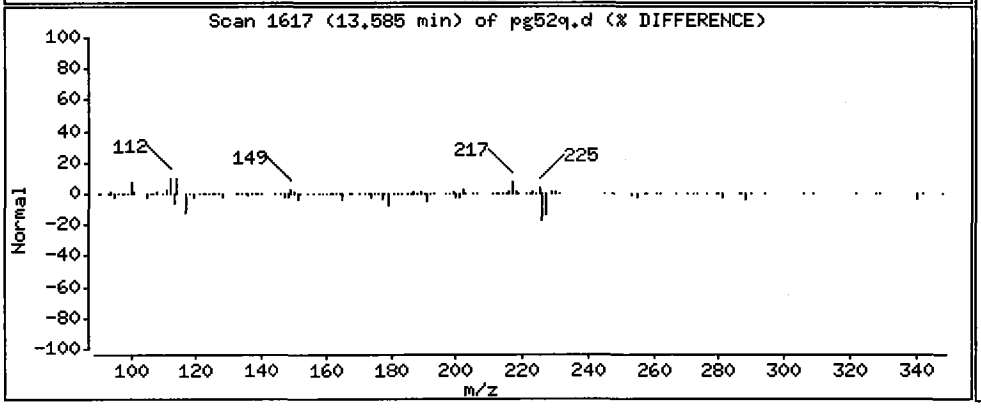
22 Benzo(a)anthracene

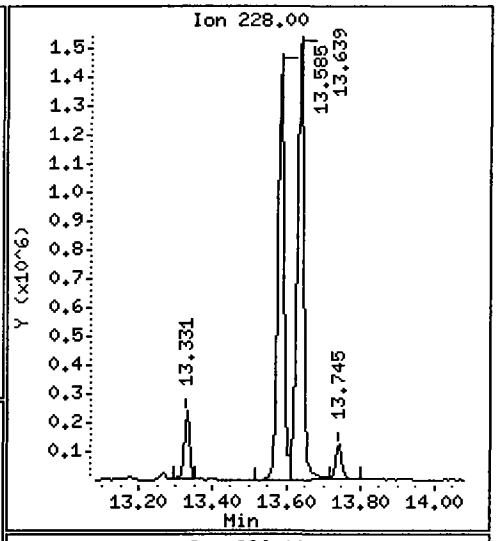
Concentration: 707.8 ug/kg

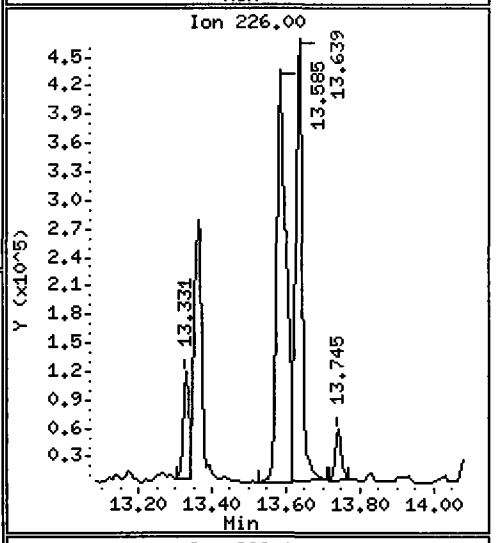


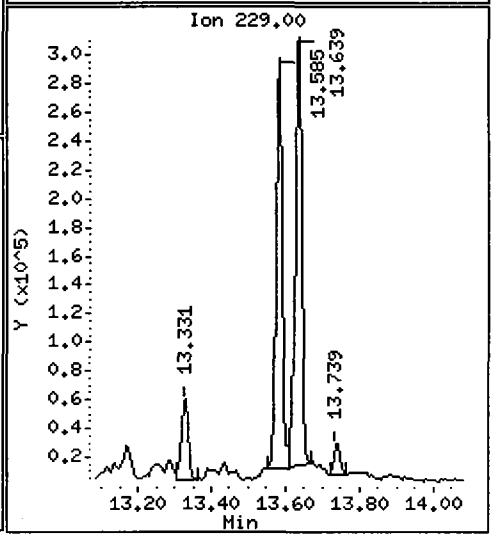












Data File: /chem3/nt1.i/20090717.b/pg52q.d

Date : 18-JUL-2009 00:10

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

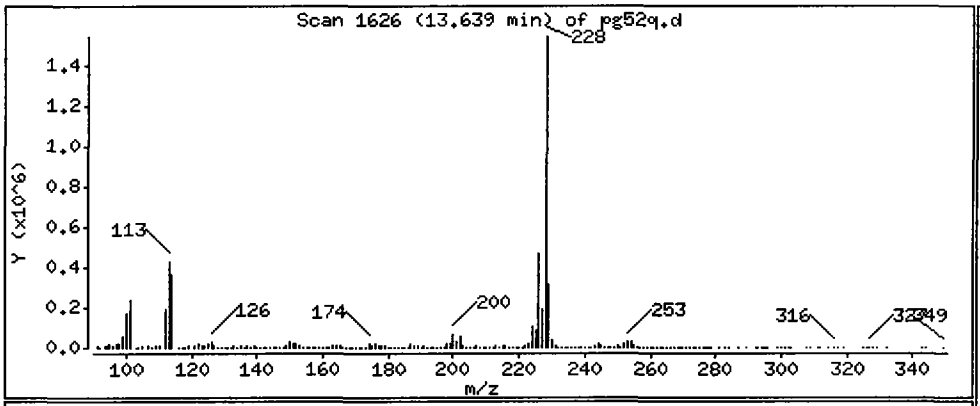
Operator: VTS

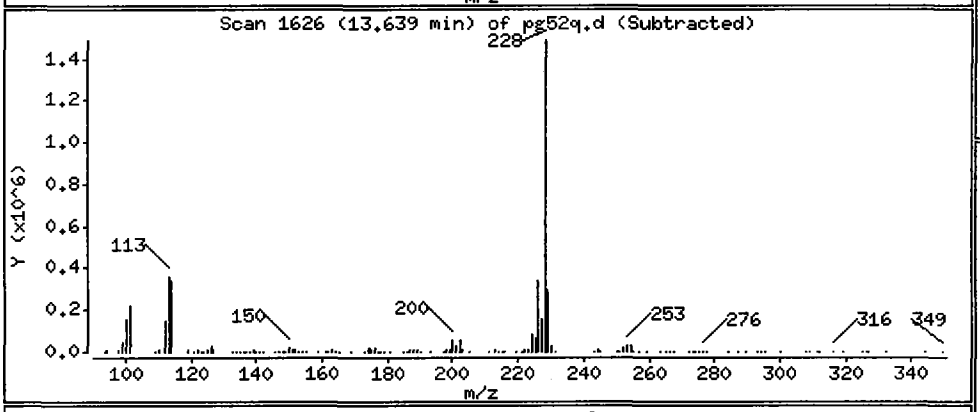
Column phase: ZB-5msi

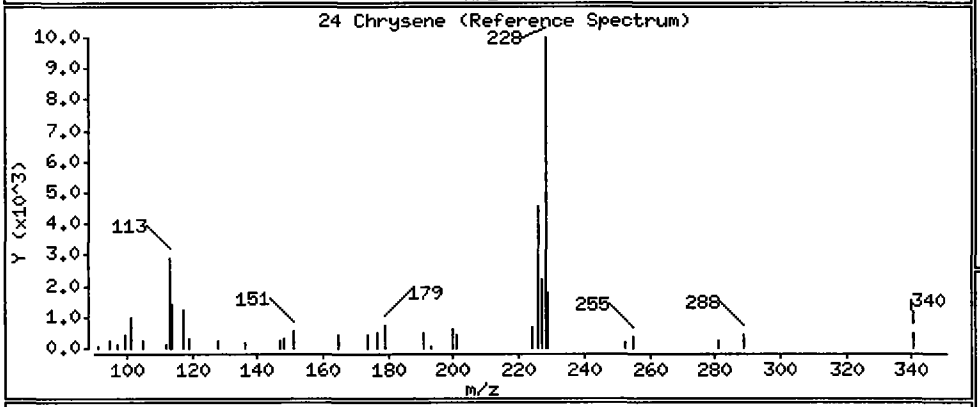
Column diameter: 0.25

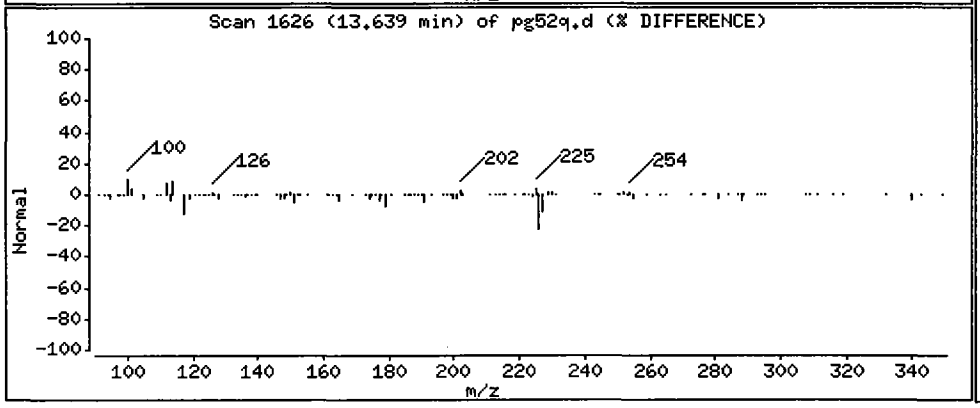
24 Chrysene

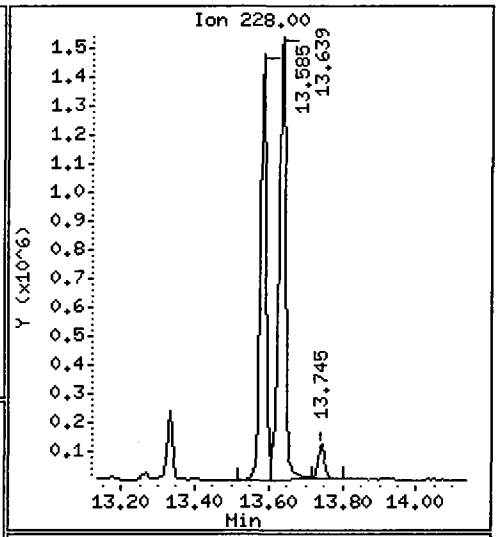
Concentration: 783.1 ug/kg

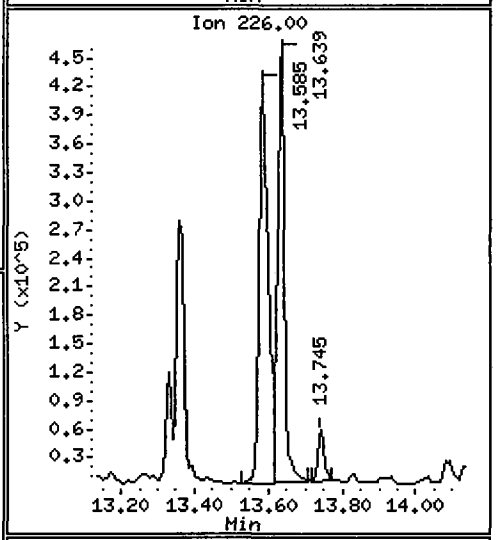


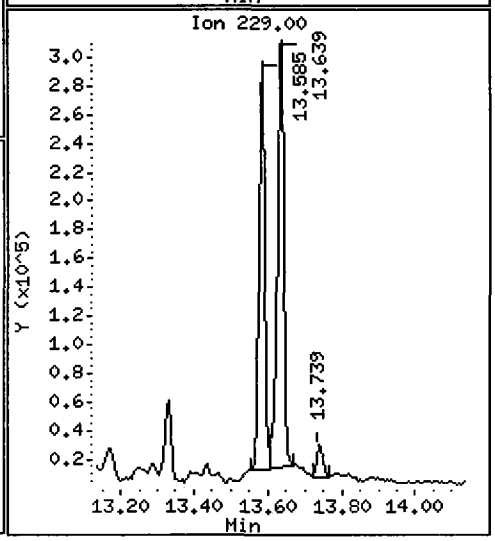












Data File: /chem3/nt1.i/20090717.b/pg52q.d

Date : 18-JUL-2009 00:10

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

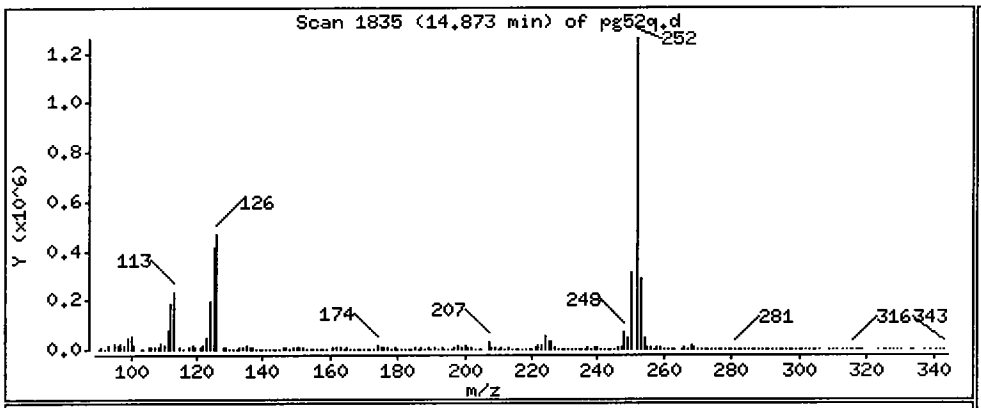
Operator: VTS

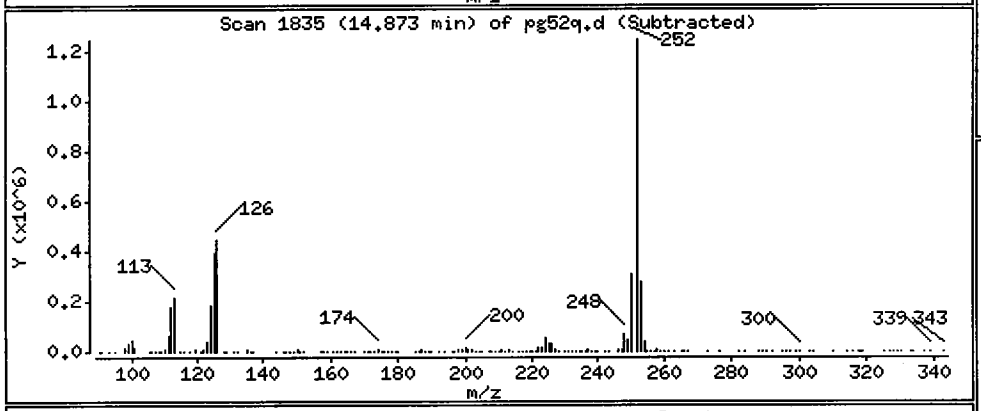
Column phase: ZB-5msi

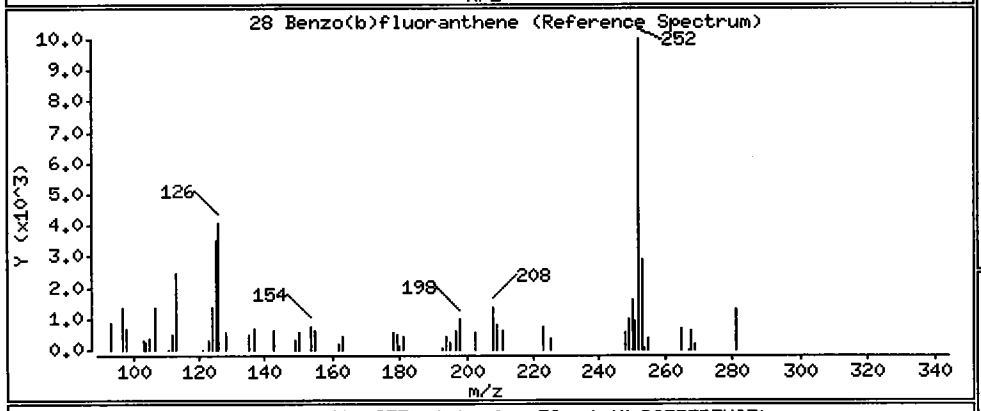
Column diameter: 0.25

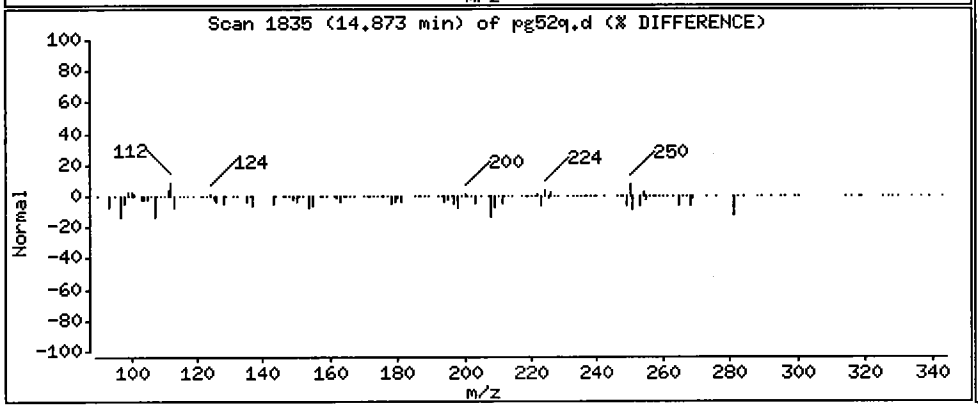
28 Benzo(b)fluoranthene

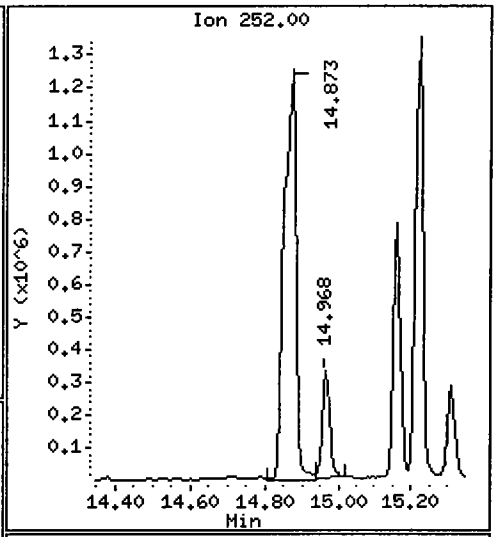
Concentration: 1096 ug/kg

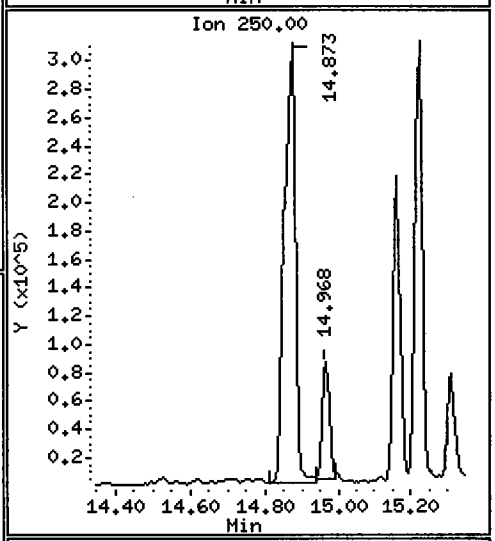


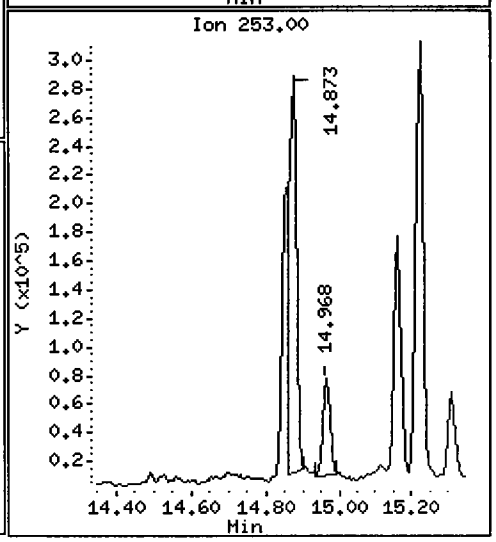












Data File: /chem3/nt1.i/20090717.b/pg52q.d

Date : 18-JUL-2009 00:10

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

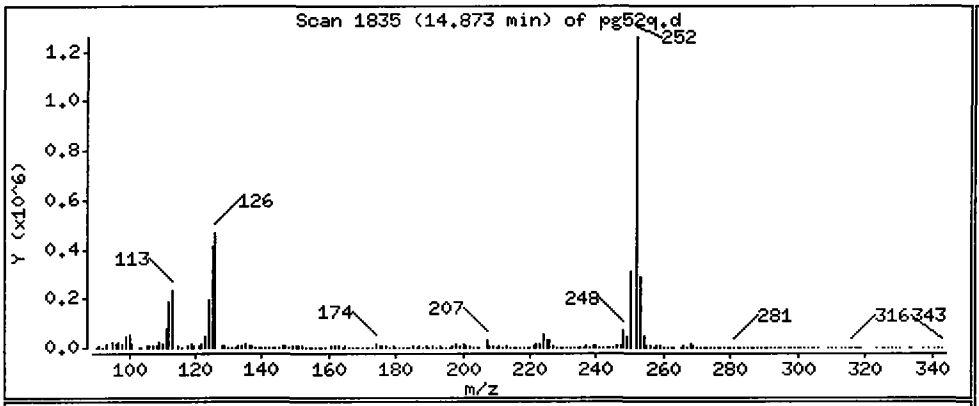
Operator: VTS

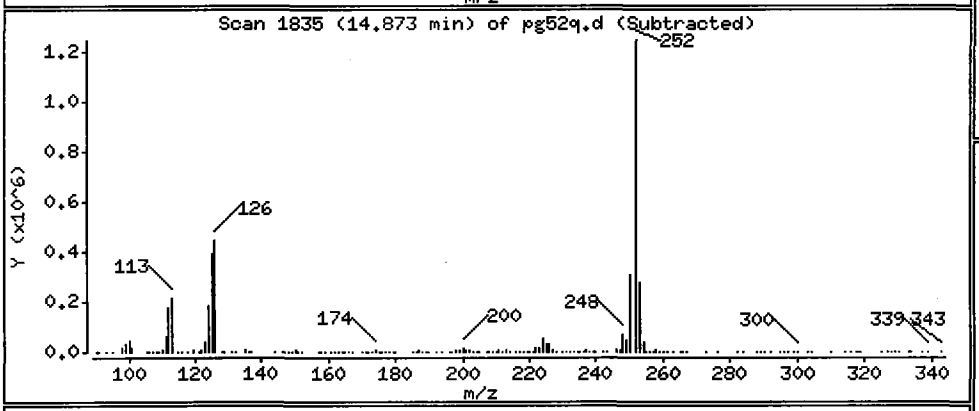
Column phase: ZB-5msi

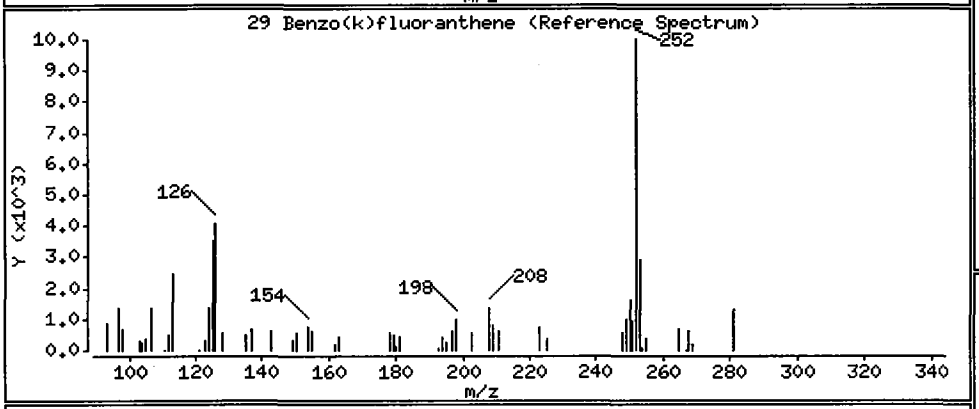
Column diameter: 0.25

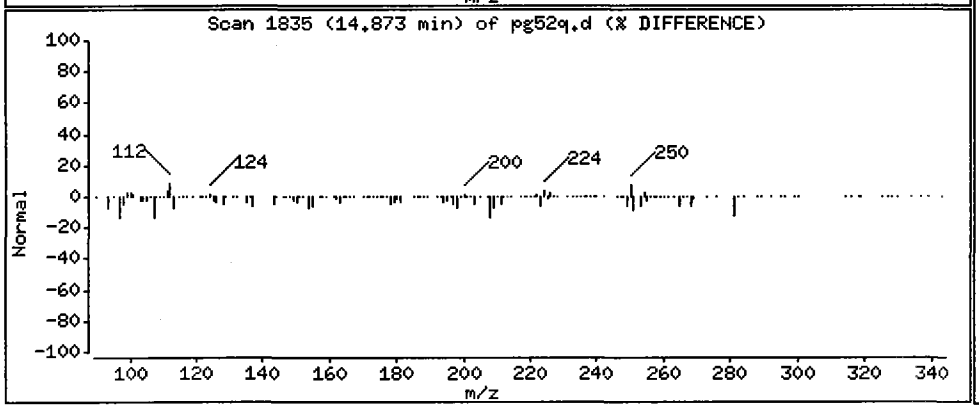
29 Benzo(k)fluoranthene

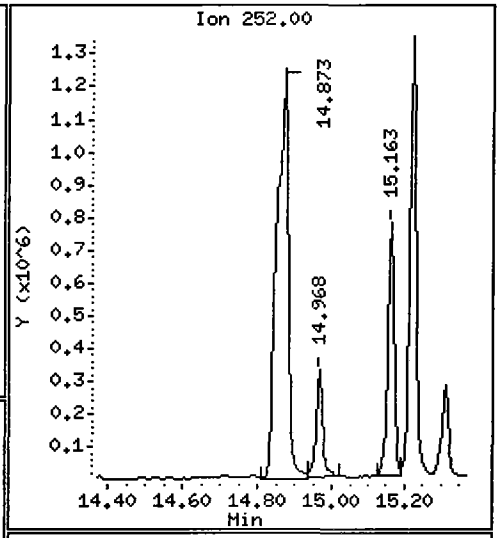
Concentration: 1022 ug/kg

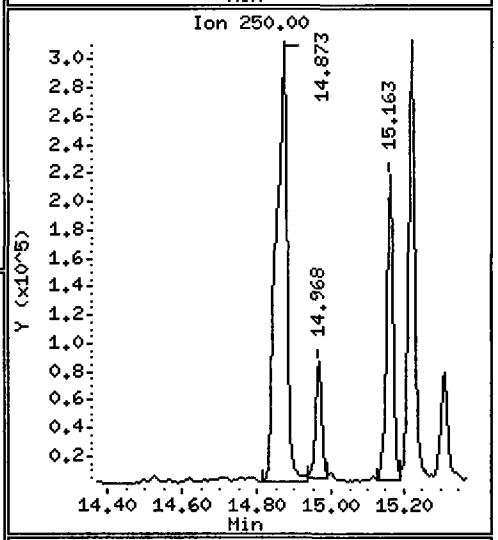


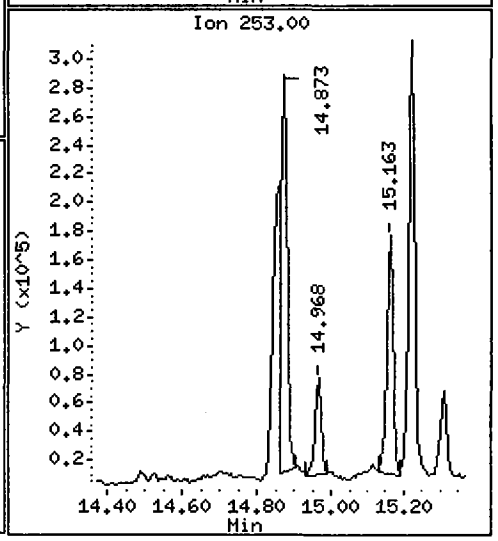












Data File: /chem3/nt1.i/20090717.b/pg52q.d

Date : 18-JUL-2009 00:10

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

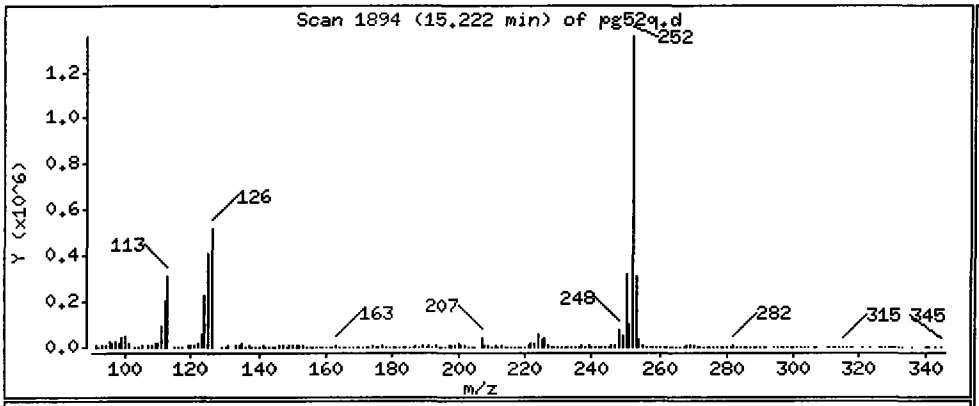
Operator: VTS

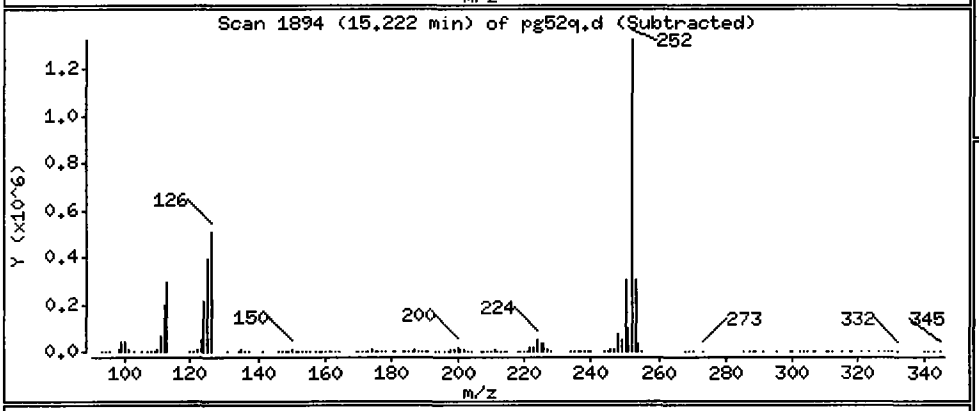
Column phase: ZB-5msi

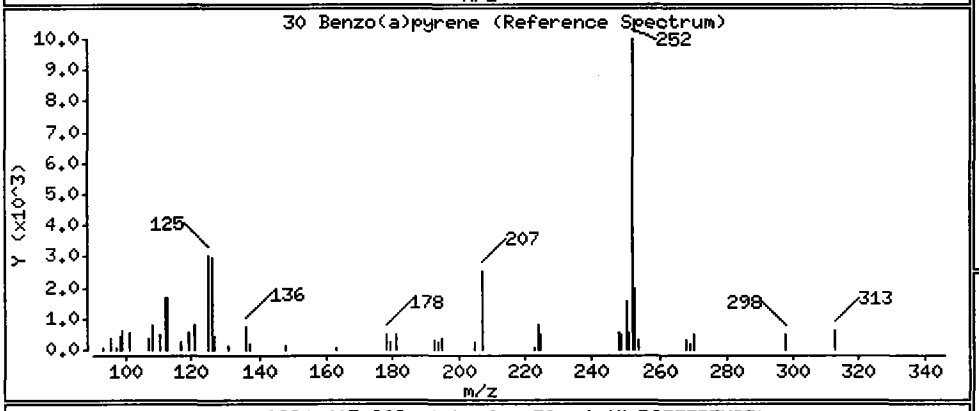
Column diameter: 0.25

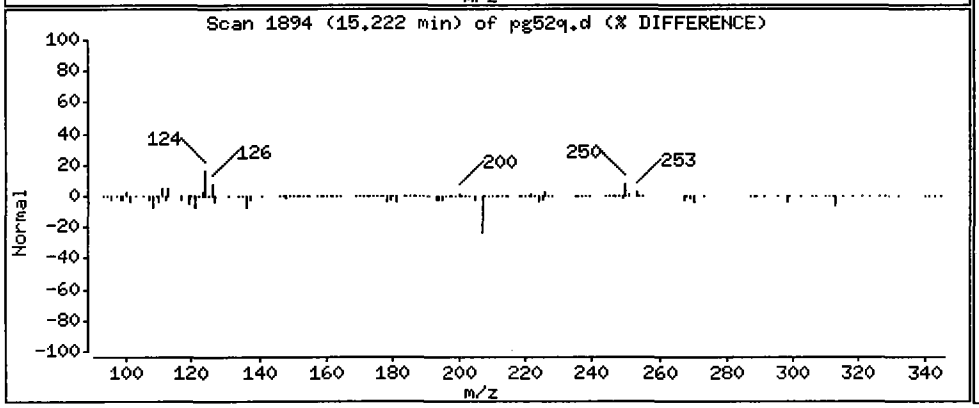
30 Benzo(a)pyrene

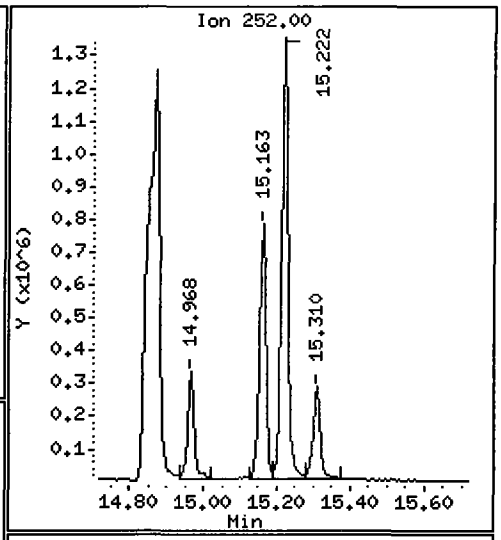
Concentration: 853.6 ug/kg

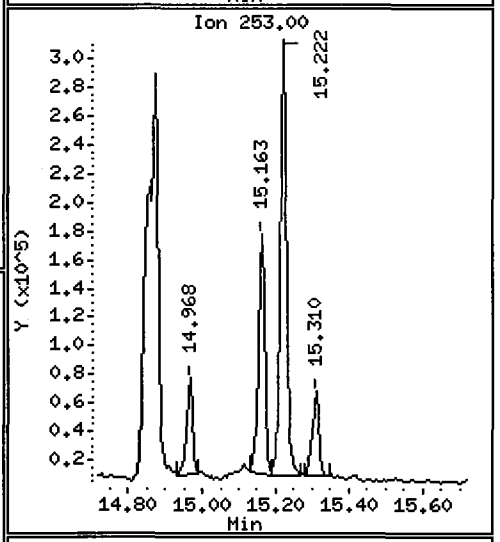


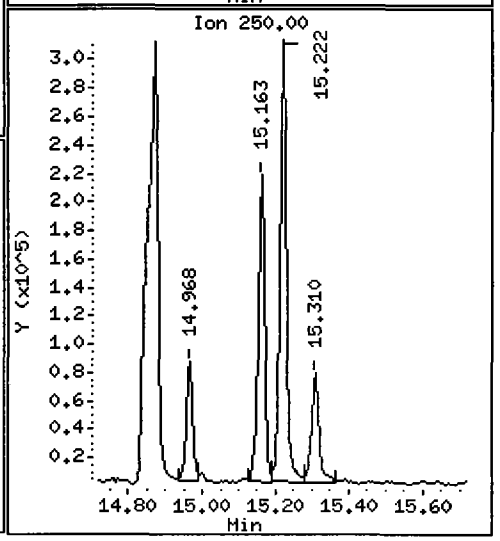












Data File: /chem3/nt1.i/20090717.b/pg52q.d

Date : 18-JUL-2009 00:10

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

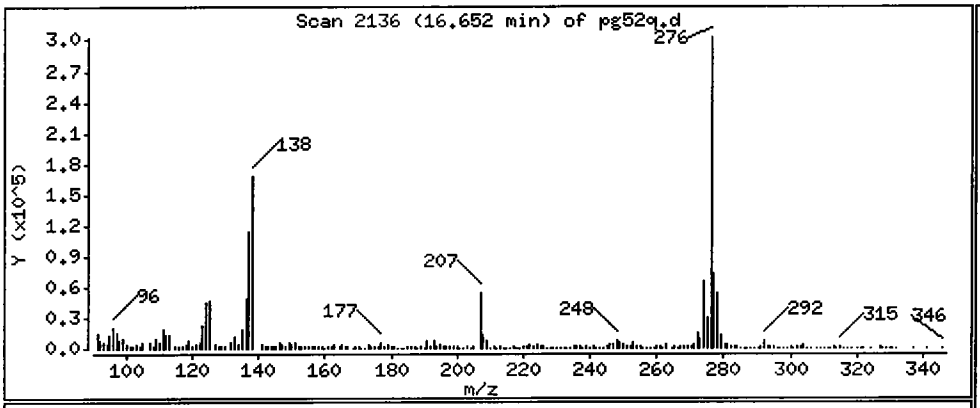
Operator: VTS

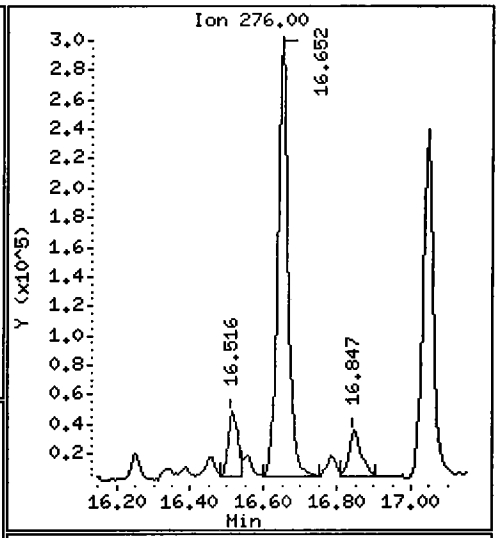
Column phase: ZB-5msi

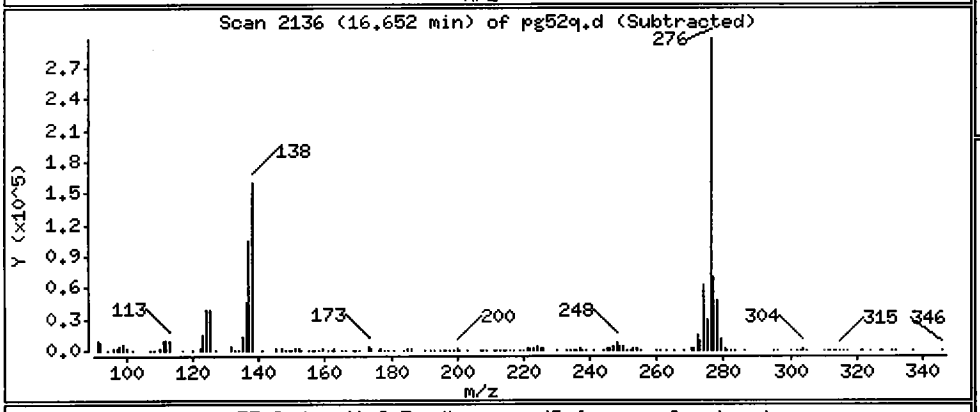
Column diameter: 0.25

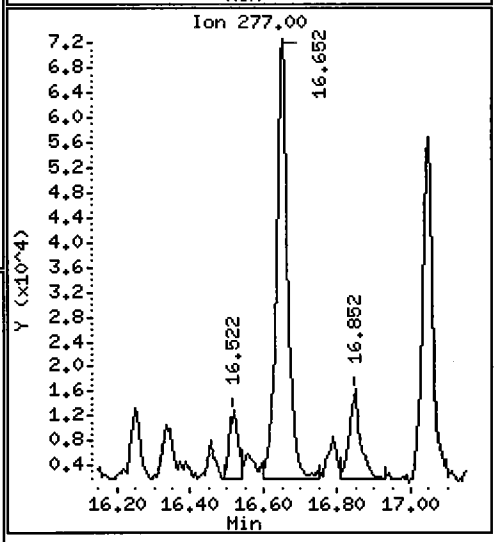
33 Indeno(1,2,3-cd)pyrene

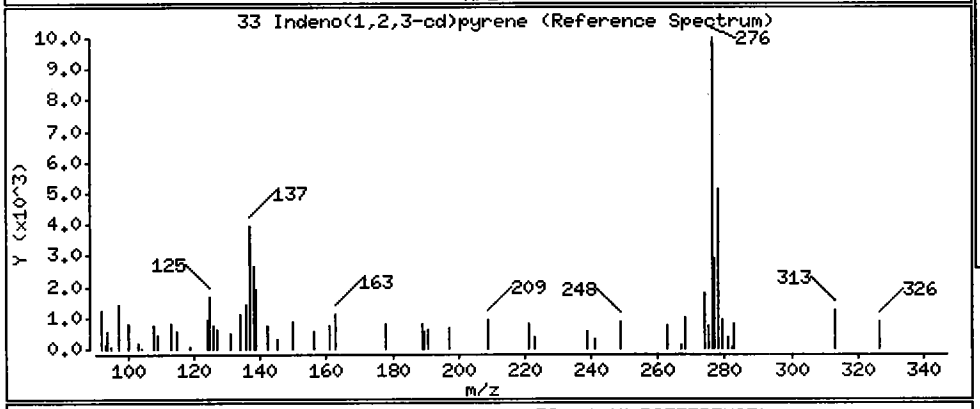
Concentration: 280.7 ug/kg

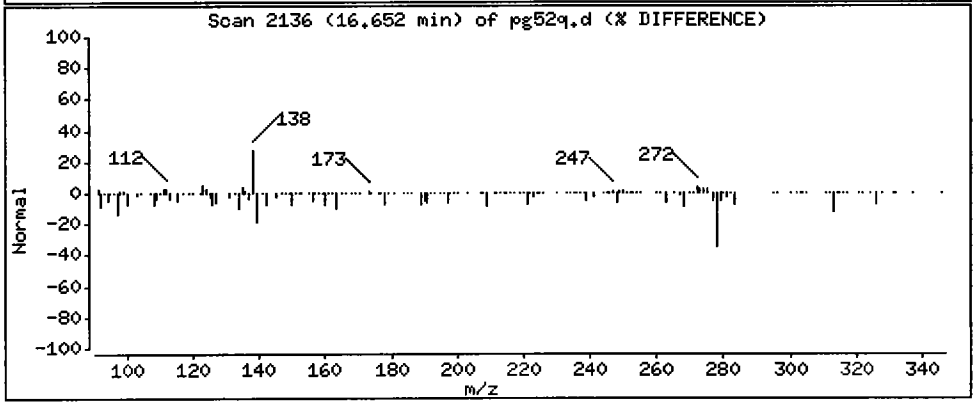












Data File: /chem3/nt1.i/20090717.b/pg52q.d

Date : 18-JUL-2009 00:10

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

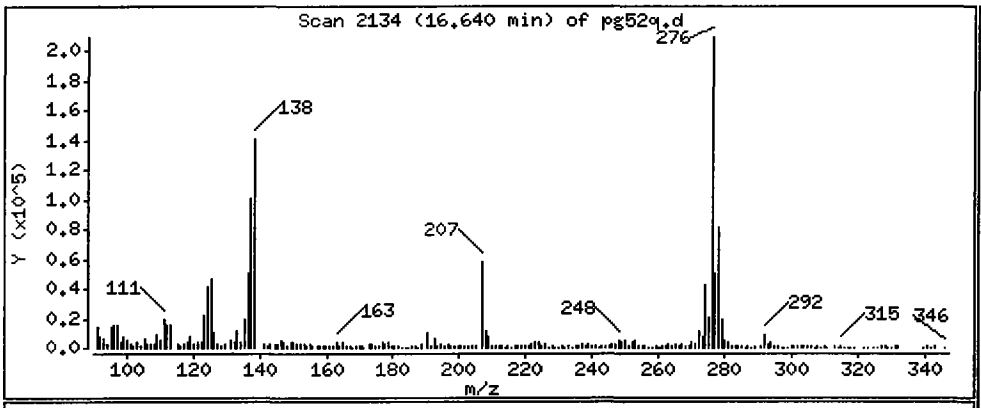
Operator: VTS

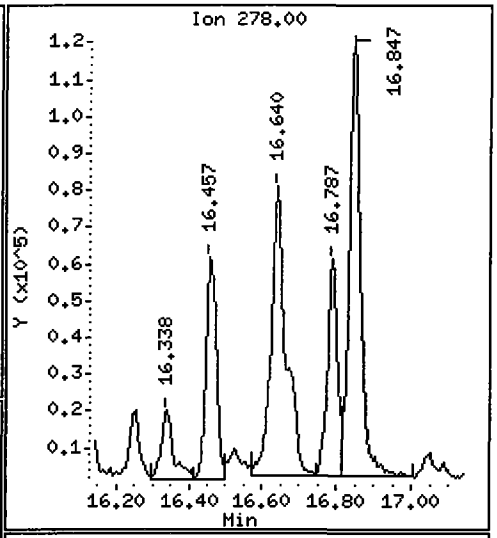
Column phase: ZB-5msi

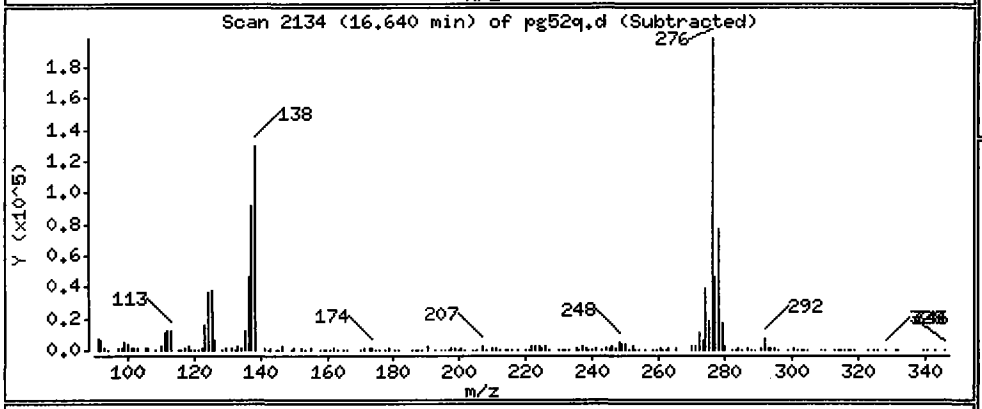
Column diameter: 0.25

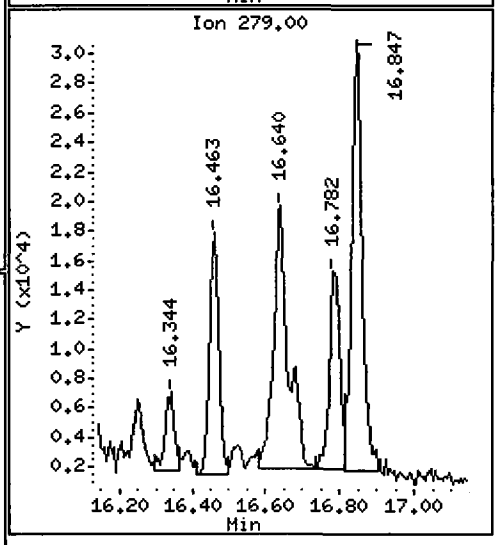
34 Dibenz(a,h)anthracene

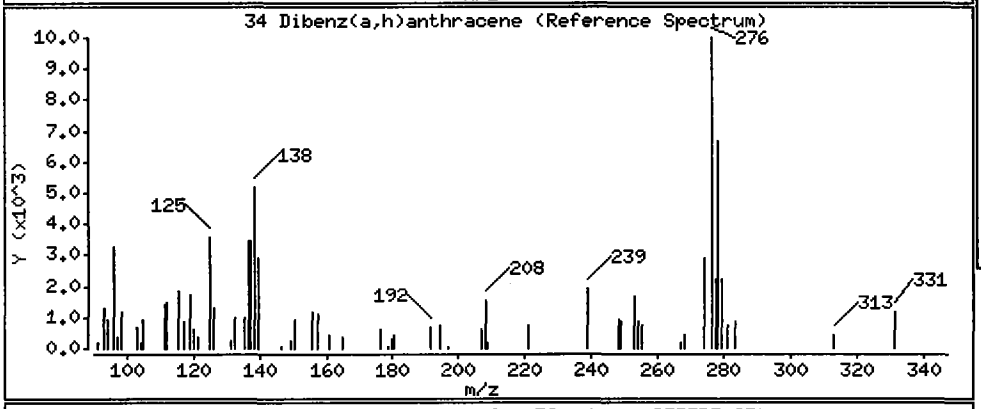
Concentration: 138.7 ug/kg

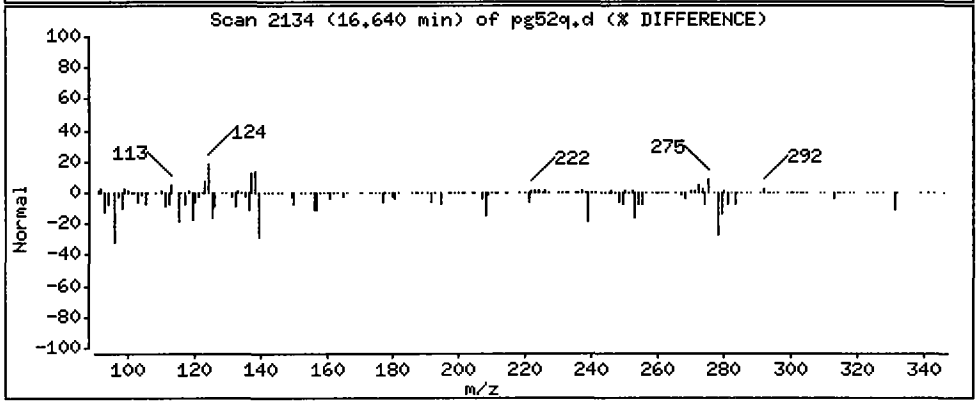












Data File: /chem3/nt1.i/20090717.b/pg52q.d

Date : 18-JUL-2009 00:10

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

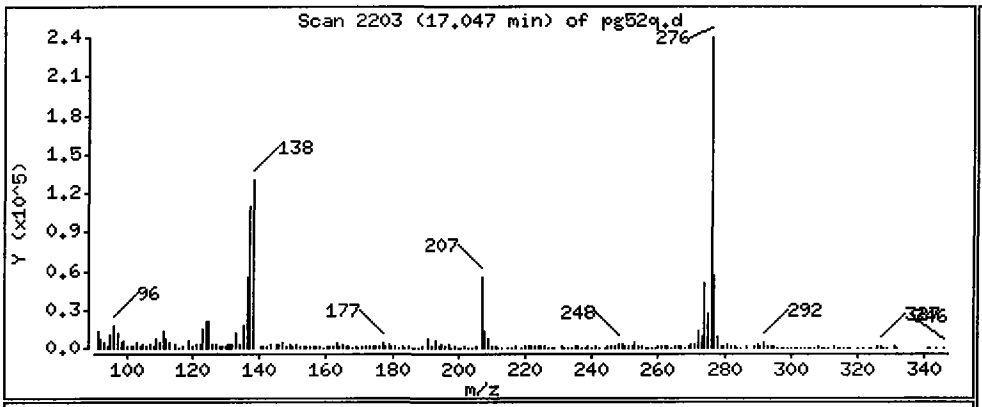
Operator: VTS

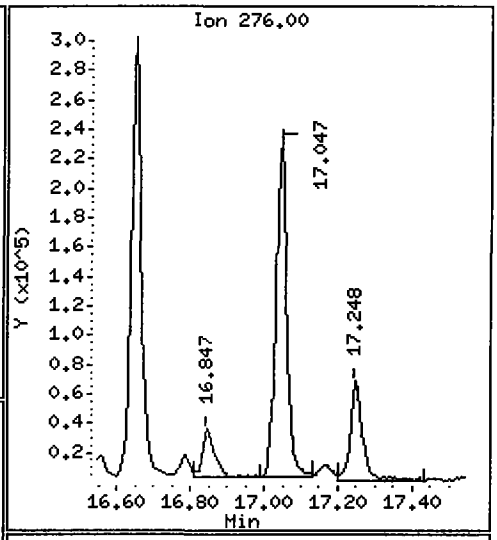
Column phase: ZB-5msi

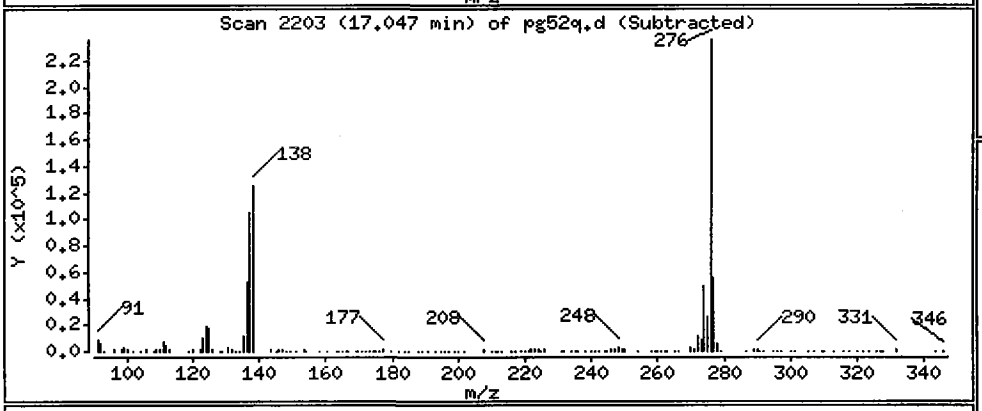
Column diameter: 0.25

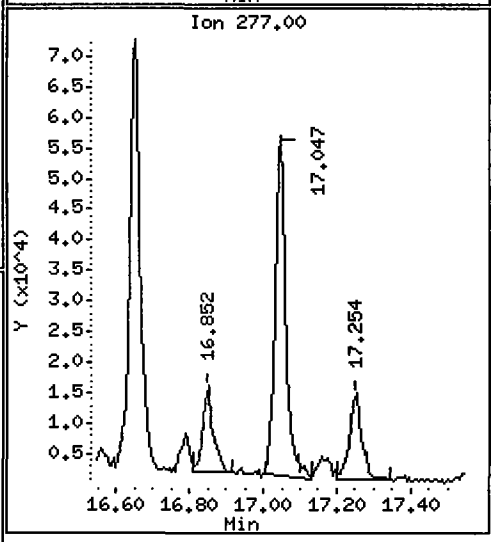
35 Benzo(g,h,i)perylene

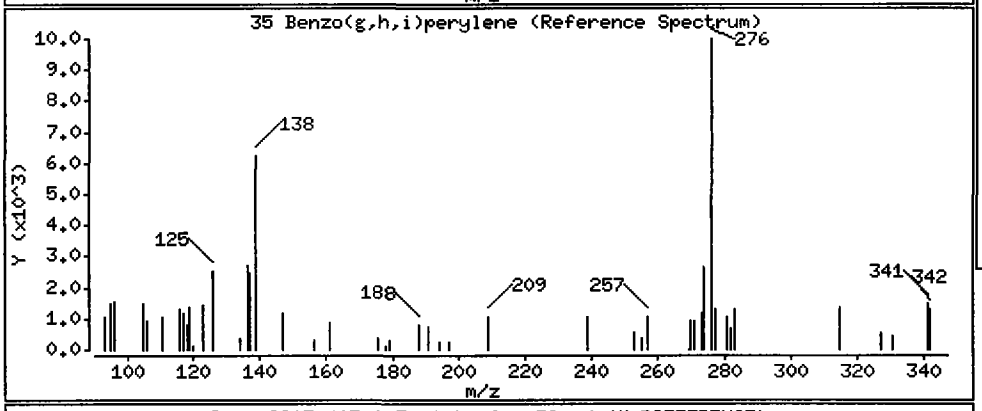
Concentration: 244.8 ug/kg

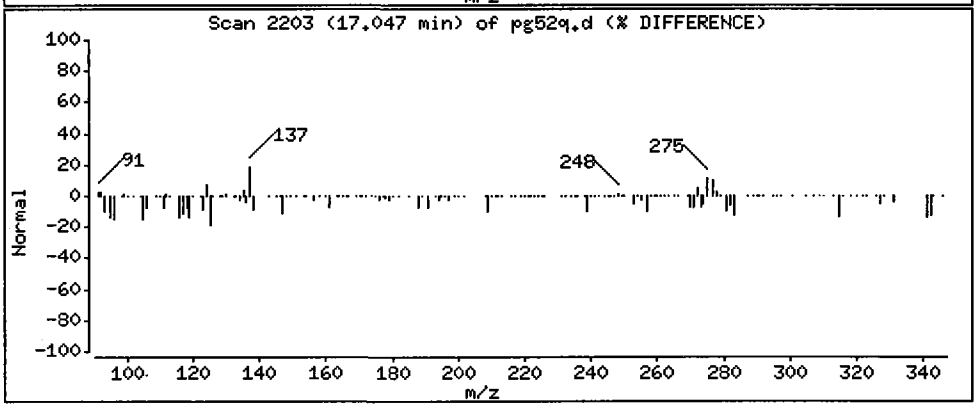












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: AHA-01-1NW(0-2.5)
DILUTION

Lab Sample ID: PG52Q
LIMS ID: 09-16502
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 07/14/09
Date Analyzed: 07/18/09 13:28
Instrument/Analyst: NT1/YZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.8 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 11.6%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	46	< 46 U
91-57-6	2-Methylnaphthalene	46	< 46 U
90-12-0	1-Methylnaphthalene	46	< 46 U
208-96-8	**Acenaphthylene**	**46**	**160**
83-32-9	Acenaphthene	46	< 46 U
86-73-7	**Fluorene**	**46**	**51**
85-01-8	**Phenanthrene**	**46**	**530**
120-12-7	**Anthracene**	**46**	**100**
206-44-0	**Fluoranthene**	**46**	**1,000**
129-00-0	**Pyrene**	**46**	**1,300**
56-55-3	**Benzo(a)anthracene**	**46**	**640**
218-01-9	**Chrysene**	**46**	**700**
205-99-2	**Benzo(b)fluoranthene**	**46**	**440**
207-08-9	**Benzo(k)fluoranthene**	**46**	**560**
50-32-8	**Benzo(a)pyrene**	**46**	**770**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**46**	**370**
53-70-3	**Dibenz(a,h)anthracene**	**46**	**170**
191-24-2	**Benzo(g,h,i)perylene**	**46**	**360**
132-64-9	Dibenzofuran	46	< 46 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	70.0%
d14-Dibenzo(a,h)anthracen	103%

YZ 7/18/09

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20090718.b/pg52q10.d
Lab Smp Id: PG52Q Client Smp ID: AHA-01-1NW(0-2.5)
Inj Date : 18-JUL-2009 13:28
Operator : VTS Inst ID: nt1.i
Smp Info : PG52Q
Misc Info : 09-16502
Comment : 1ul Injection
Method : /chem3/nt1.i/20090718.b/simpna.m
Meth Date : 18-Jul-2009 11:36 yev Quant Type: ISTD
Cal Date : 11-JUL-2009 14:37 Cal File: ic0711f.d
Als bottle: 6
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: pnalmn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	12.20000	Weight of sample extracted (g)
M	11.60000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
*	1 Naphthalene-d8	136	6.450	6.452	(1.000)	520885	2.00000	
	2 Naphthalene	128	6.474	6.476	(1.004)	11689	0.05105 J	23.67
$	3 2-Methylnaphthalene-d10	152	7.201	7.196	(1.116)	24730	0.21495	99.66
	4 2-Methylnaphthalene	142	Compound Not Detected.					
	5 1-Methylnaphthalene	142	Compound Not Detected.					
	7 Acenaphthylene	152	8.305	8.301	(0.979)	63501	0.34741	161.1
*	8 Acenaphthene-d10	164	8.483	8.484	(1.000)	236439	2.00000	
	9 Acenaphthene	153	Compound Not Detected.					
	10 Dibenzofuran	168	Compound Not Detected.					
	11 Fluorene	166	9.127	9.128	(1.076)	12978	0.10972	50.87
*	15 Phenanthrene-d10	188	10.279	10.280	(1.000)	363093	2.00000	
	16 Phenanthrene	178	10.308	10.304	(1.003)	193661	1.15022	533.3
	17 Anthracene	178	10.361	10.363	(1.008)	36342	0.21646	100.4
	19 Fluoranthene	202	11.791	11.787	(1.147)	333209	2.14847	996.1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.075	12.070	(0.889)	471531	2.75717	1278
	22 Benzo(a)anthracene	228	13.552	13.553	(0.998)	165775	1.38026	639.9
*	23 Chrysene-d12	240	13.575	13.571	(1.000)	255367	2.00000	
	24 Chrysene	228	13.605	13.607	(1.002)	190312	1.51423	702.0
	28 Benzo(b)fluoranthene	252	14.822	14.818	(0.972)	120081	0.95909	444.6
	29 Benzo(k)fluoranthene	252	14.840	14.841	(0.973)	162211	1.20795	560.0
	30 Benzo(a)pyrene	252	15.182	15.184	(0.996)	175468	1.66617	772.5
*	31 Perylene-d12	264	15.247	15.243	(1.000)	250317	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	16.600	16.602	(1.089)	85779	0.79960	370.7
$	32 Dibenz(a,h)anthrancene-d14	292	16.547	16.549	(1.085)	19053	0.30817	142.9
	34 Dibenz(a,h)anthracene	278	16.594	16.596	(1.088)	29068	0.35845	166.2
	35 Benzo(g,h,i)perylene	276	16.990	16.992	(1.114)	77191	0.76932	356.7

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: pg52q10.d
Lab Smp Id: PG52Q
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20090718.b/simpna.m
Misc Info: 09-16502

Calibration Date: 18-JUL-2009
Calibration Time: 10:54
Client Smp ID: AHA-01-1NW(0-2.5)
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	463169	231584	926338	520885	12.46
8 Acenaphthene-d10	213444	106722	426888	236439	10.77
15 Phenanthrene-d10	326462	163231	652924	363093	11.22
23 Chrysene-d12	224038	112019	448076	255367	13.98
31 Perylene-d12	206230	103115	412460	250317	21.38

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.45	5.95	6.95	6.45	-0.03
8 Acenaphthene-d10	8.48	7.98	8.98	8.48	-0.02
15 Phenanthrene-d10	10.28	9.78	10.78	10.28	-0.02
23 Chrysene-d12	13.57	13.07	14.07	13.58	0.03
31 Perylene-d12	15.24	14.74	15.74	15.25	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

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RECOVERY REPORT

Client Name: Anchor QEA
Sample Matrix: SOLID
Lab Smp Id: PG52Q
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: pna1mn.sub
Method File: /chem3/nt1.i/20090718.b/simpna.m
Misc Info: 09-16502

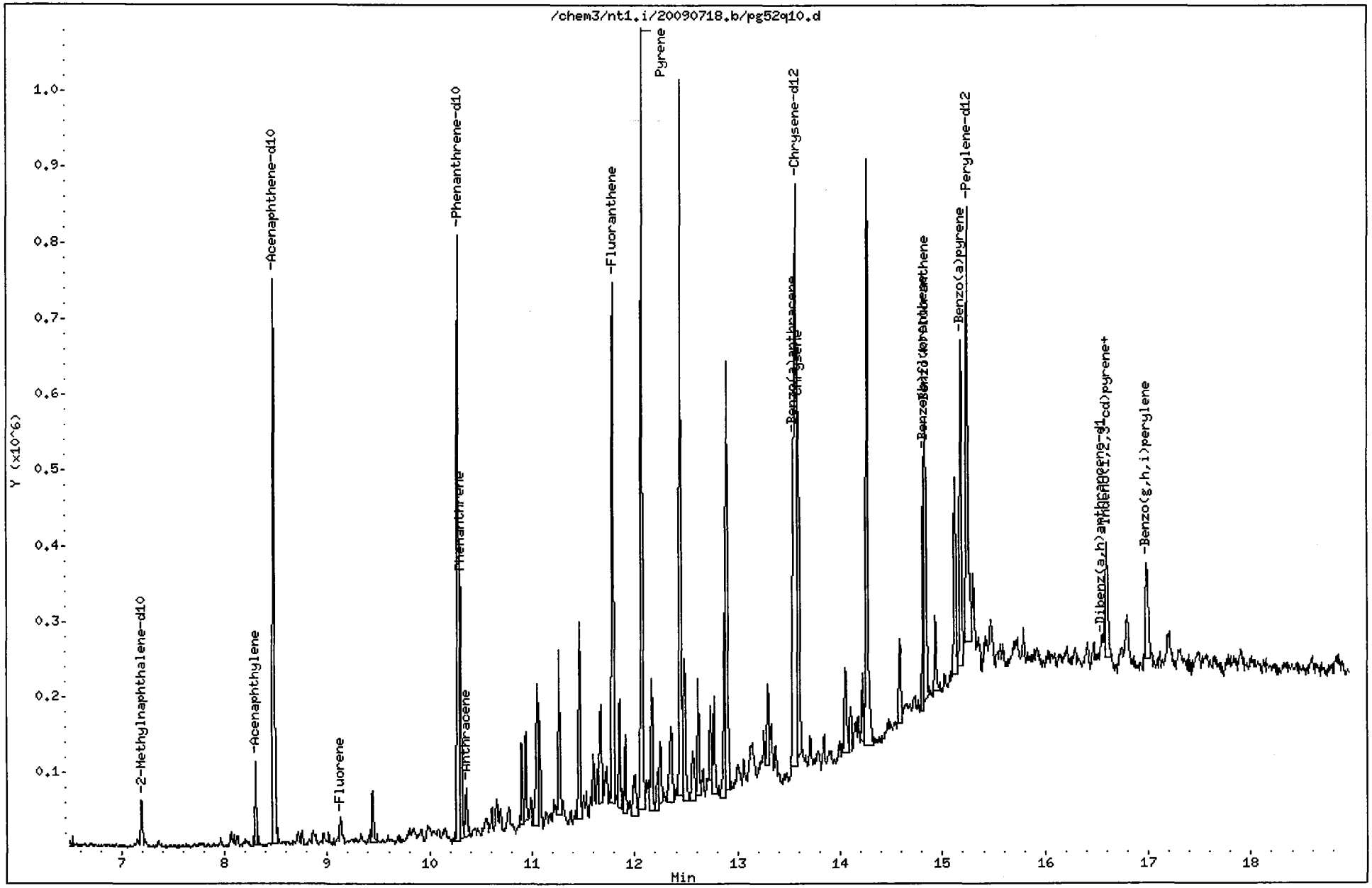
Client SDG: PG52
Fraction: SV
Client Smp ID: AHA-01-1NW(0-2.5)
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	139.1	99.66	71.65	34-100
$ 32 Dibenz(a,h)anthran	139.1	142.9	102.72	10-117

Data File: /chem3/nt1.i/20090718.b/pg52q10.d
Date : 18-JUL-2009 13:28
Client ID: AHA-01-1NW(0-2.5)
Sample Info: PG52Q
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

PG52:00150



Data File: /chem3/nt1.i/20090718.b/pg52q10.d

Date : 18-JUL-2009 13:28

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

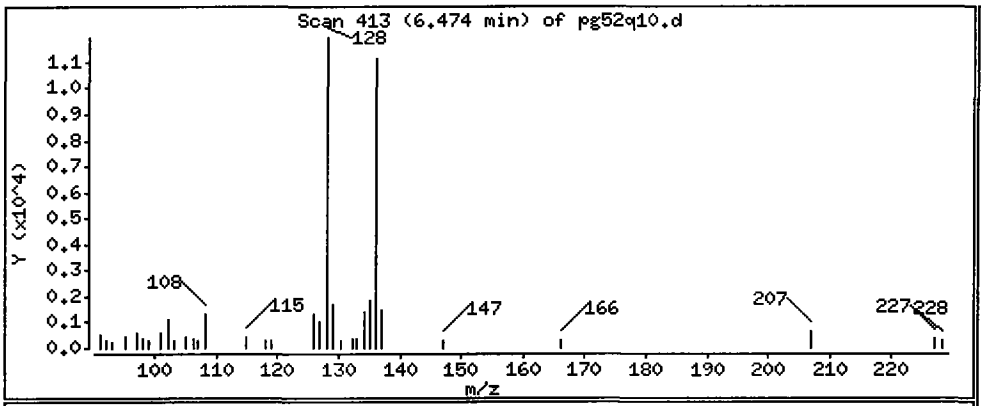
Operator: VTS

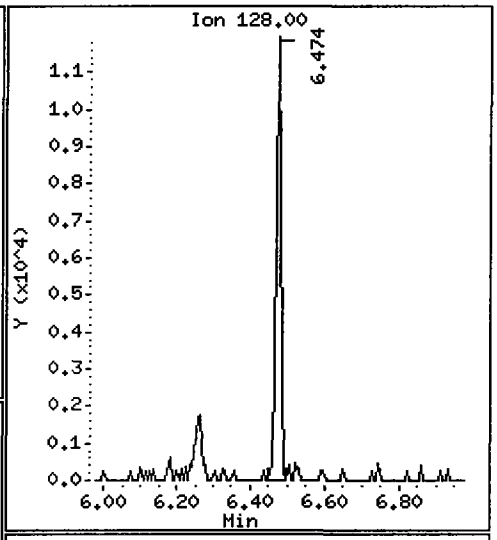
Column phase: ZB-5msi

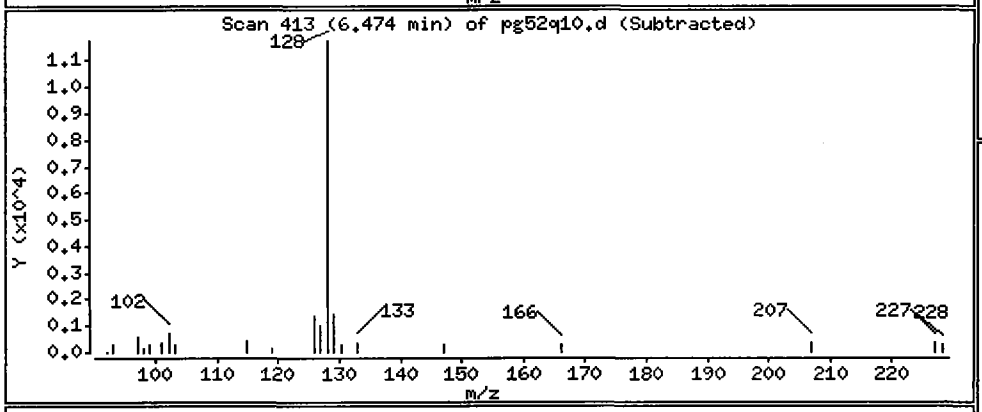
Column diameter: 0.25

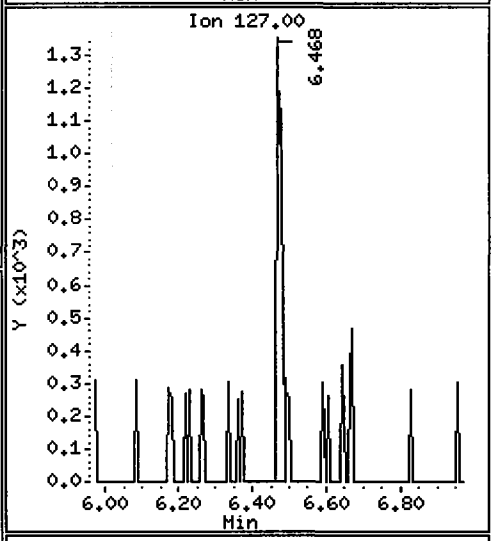
2 Naphthalene

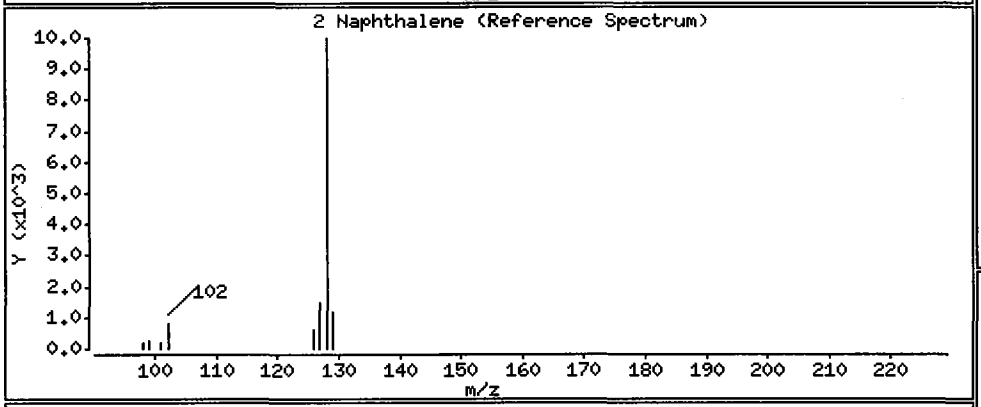
Concentration: 23.67 ug/kg

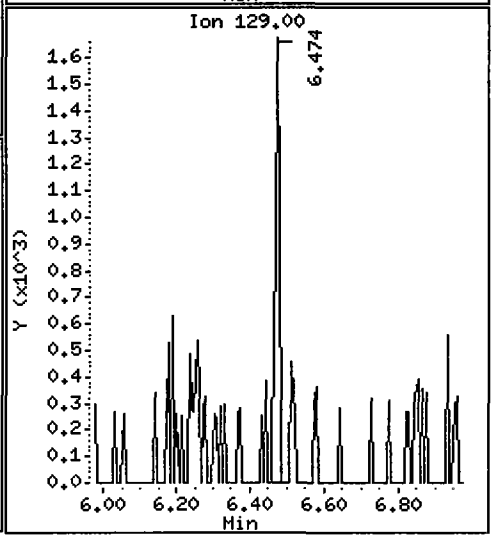


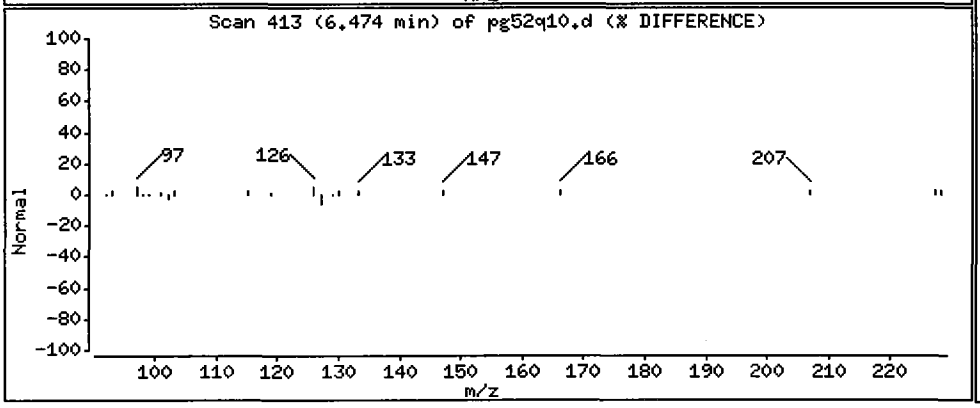












Data File: /chem3/nt1.i/20090718.b/pg52q10.d

Date : 18-JUL-2009 13:28

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

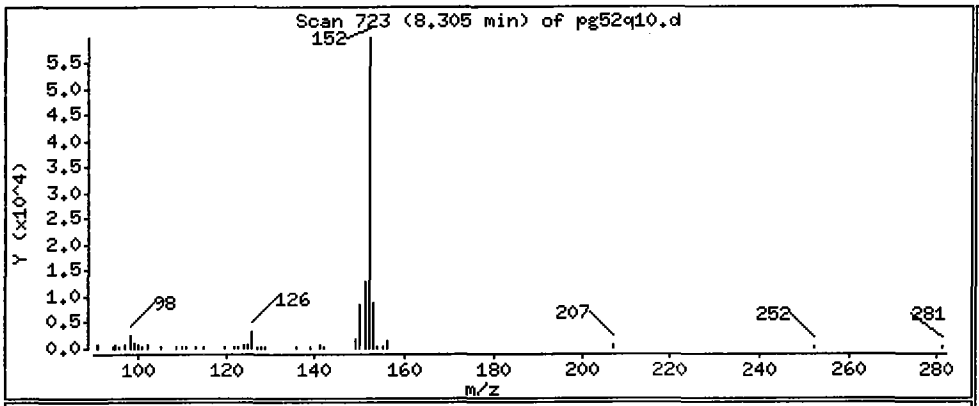
Operator: VTS

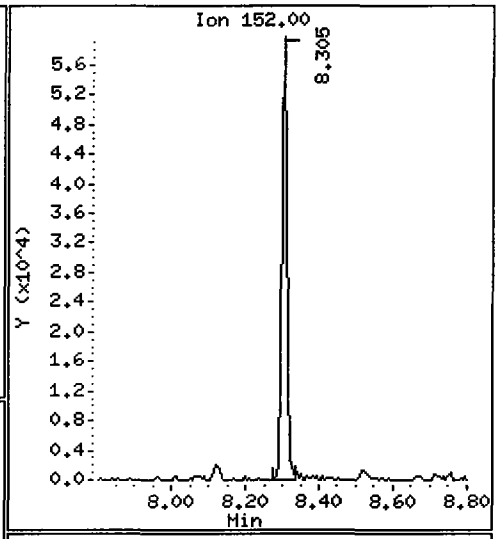
Column phase: ZB-5msi

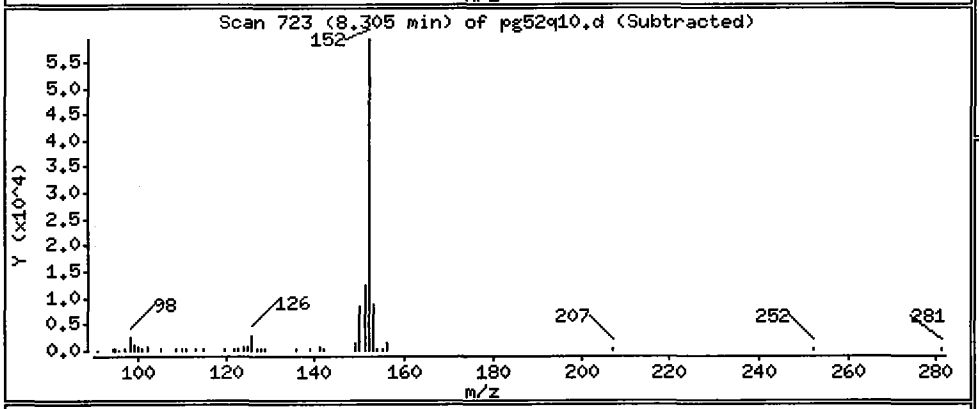
Column diameter: 0.25

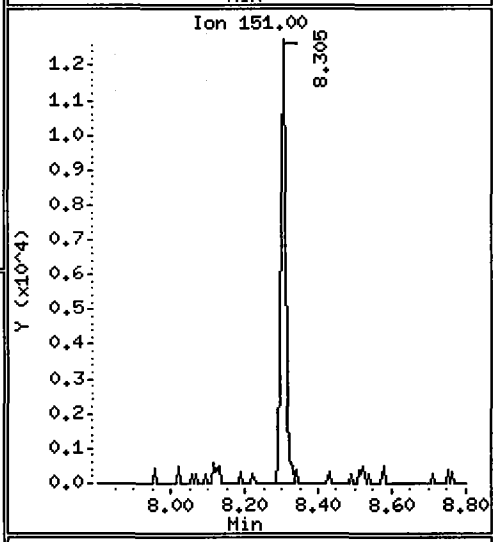
7 Acenaphthylene

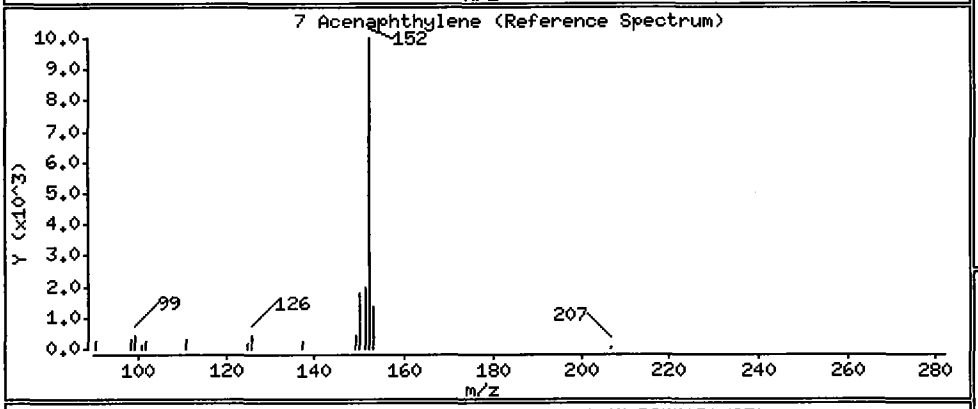
Concentration: 161.1 ug/kg

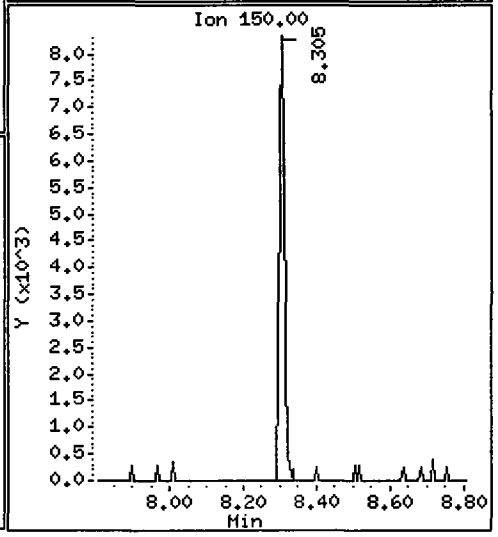


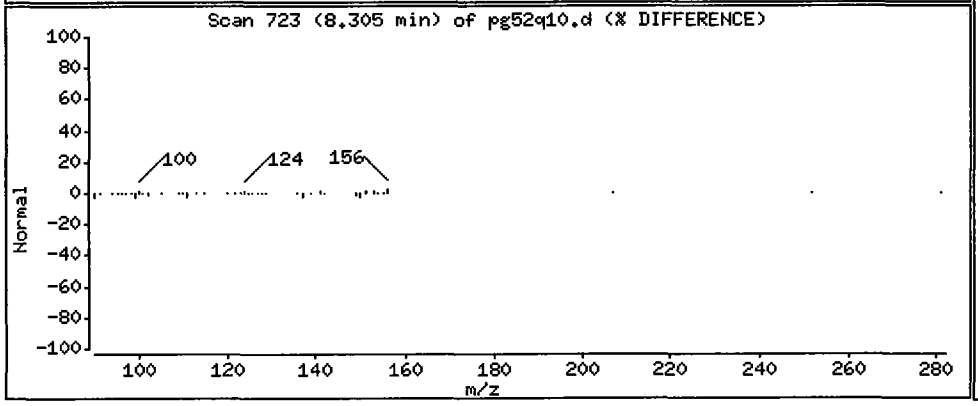












Data File: /chem3/nt1.i/20090718.b/pg52q10.d

Date : 18-JUL-2009 13:28

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

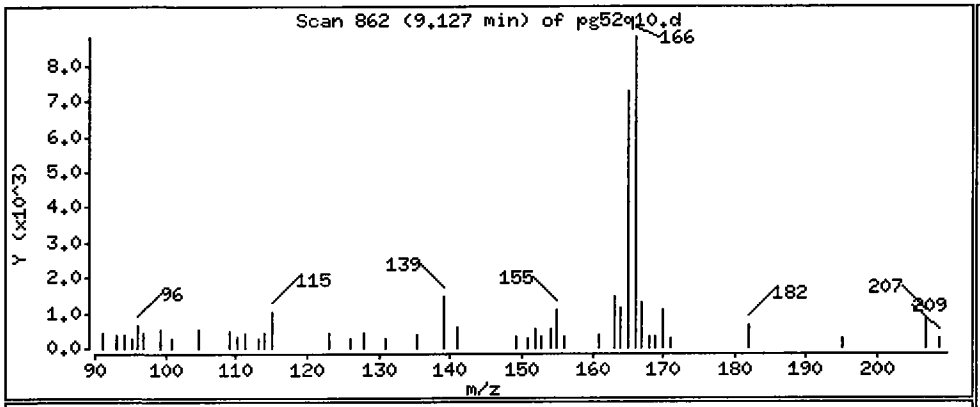
Operator: VTS

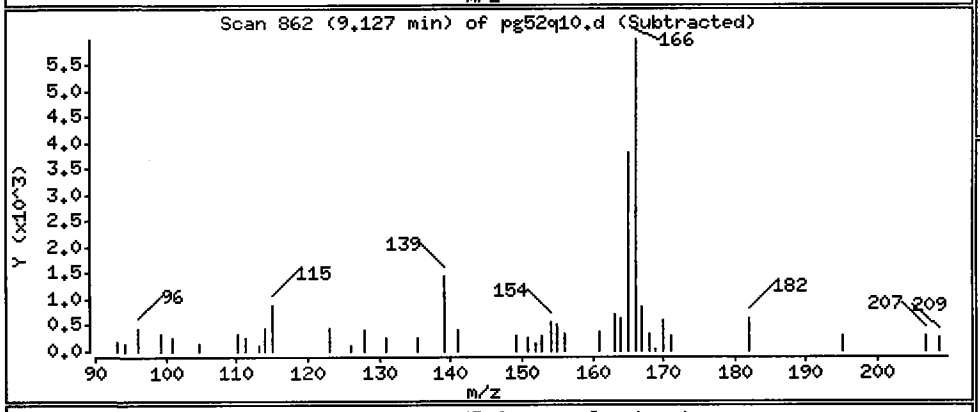
Column phase: ZB-5msi

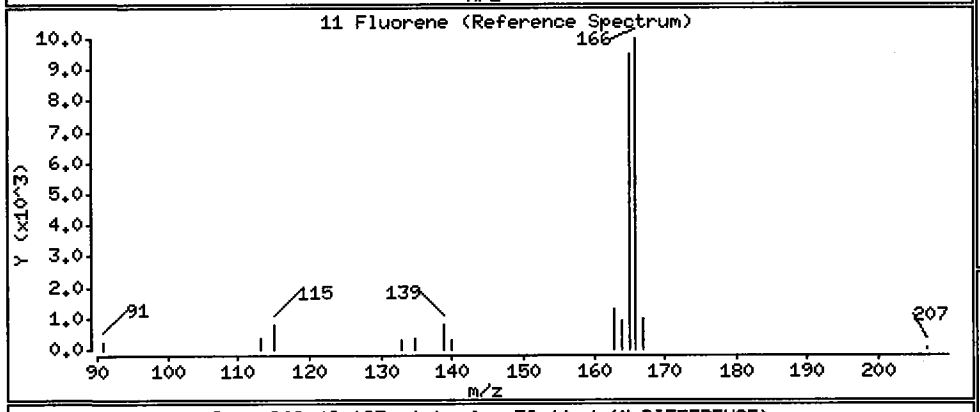
Column diameter: 0.25

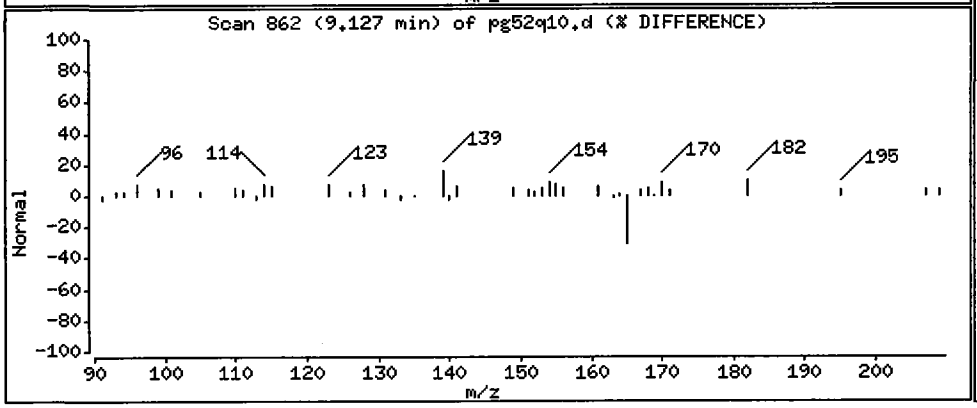
11 Fluorene

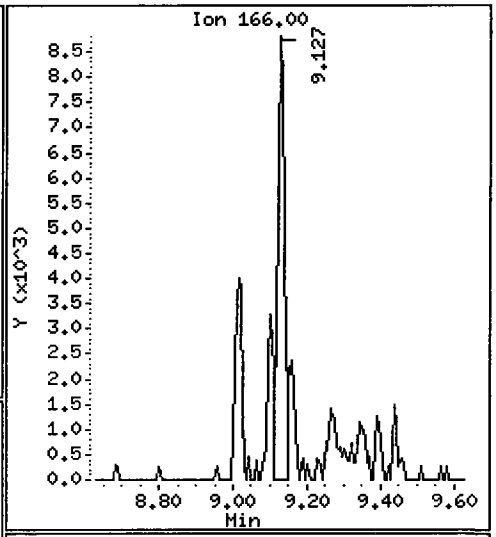
Concentration: 50.87 ug/kg

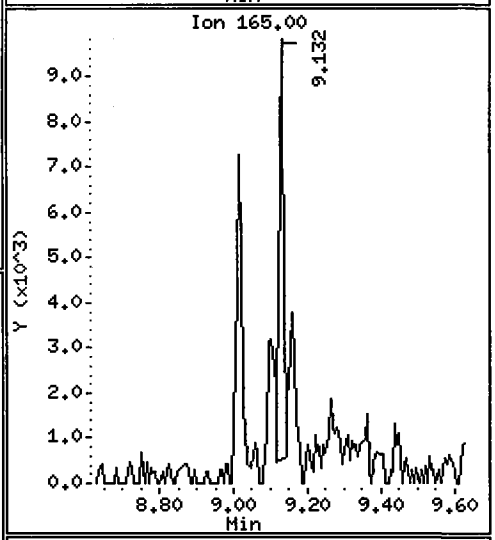


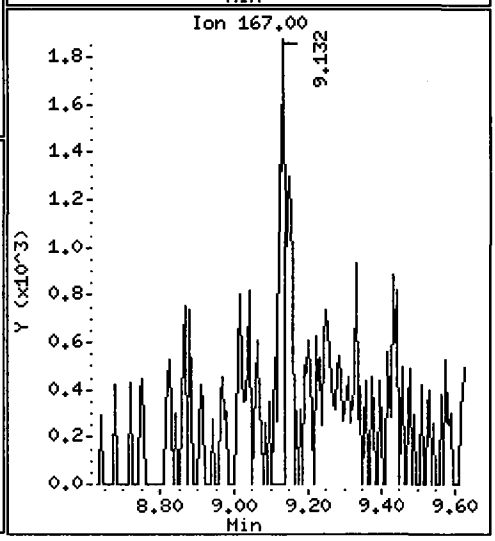












Data File: /chem3/nt1.i/20090718.b/pg52q10.d

Date : 18-JUL-2009 13:28

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

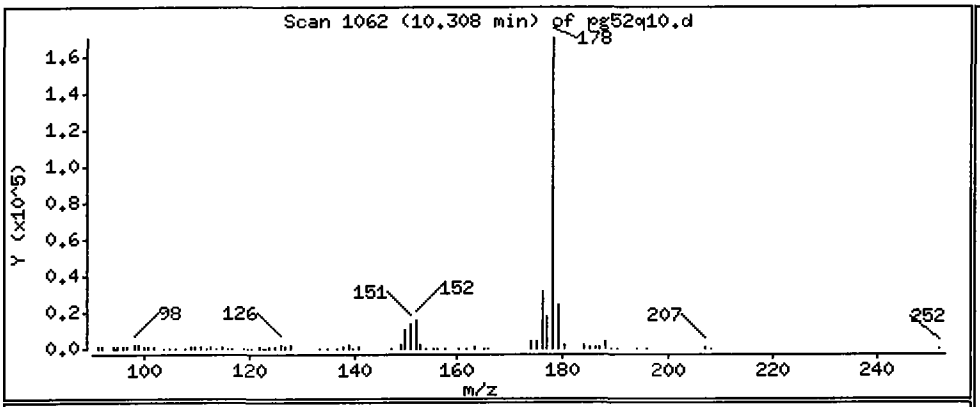
Operator: VTS

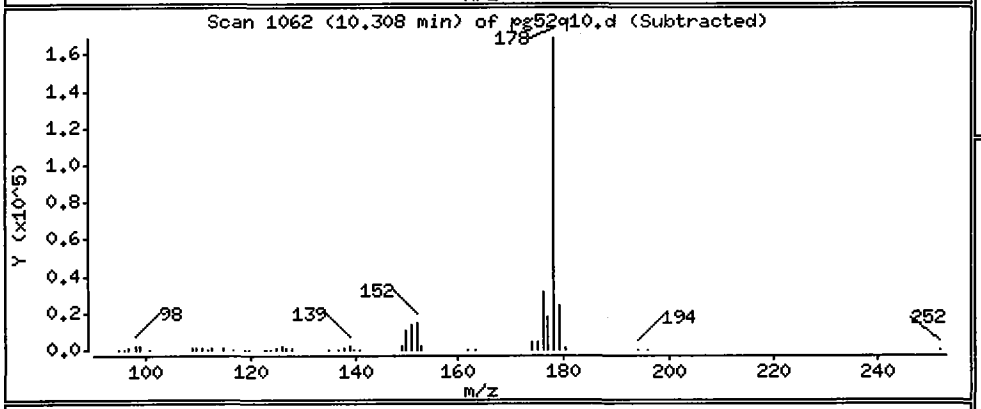
Column phase: ZB-5msi

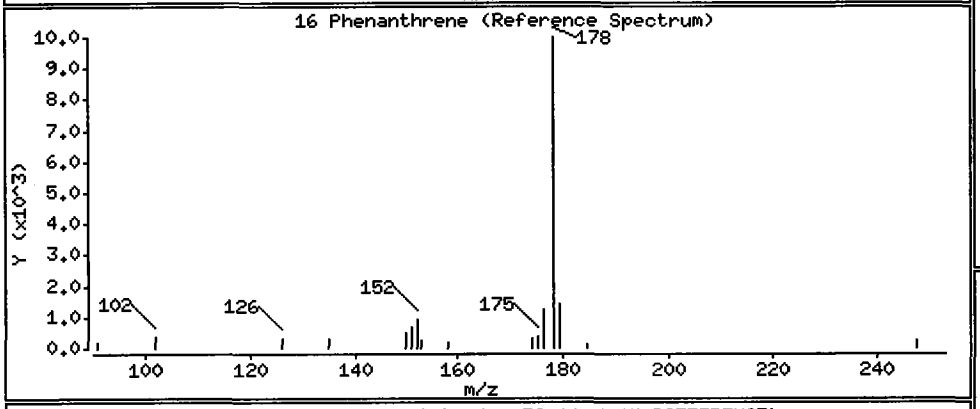
Column diameter: 0.25

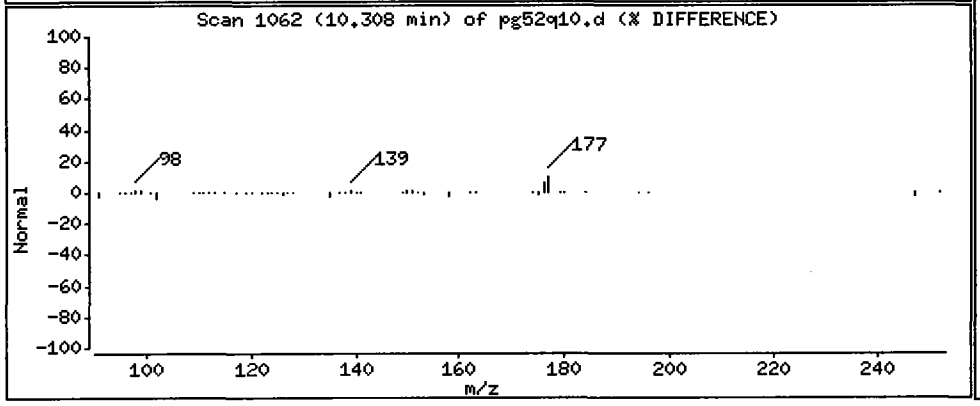
16 Phenanthrene

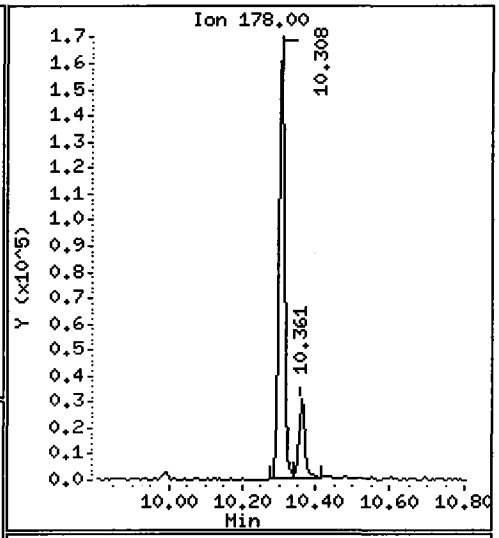
Concentration: 533.3 ug/kg

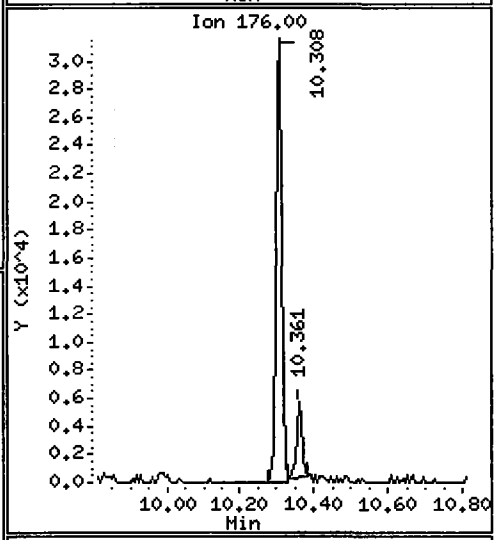


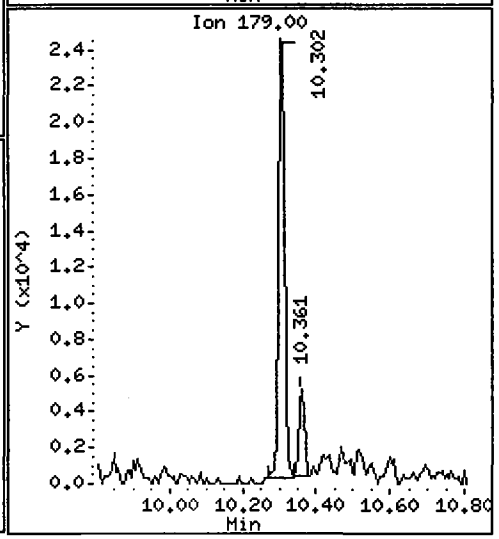












Data File: /chem3/nt1.i/20090718.b/pg52q10.d

Date : 18-JUL-2009 13:28

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

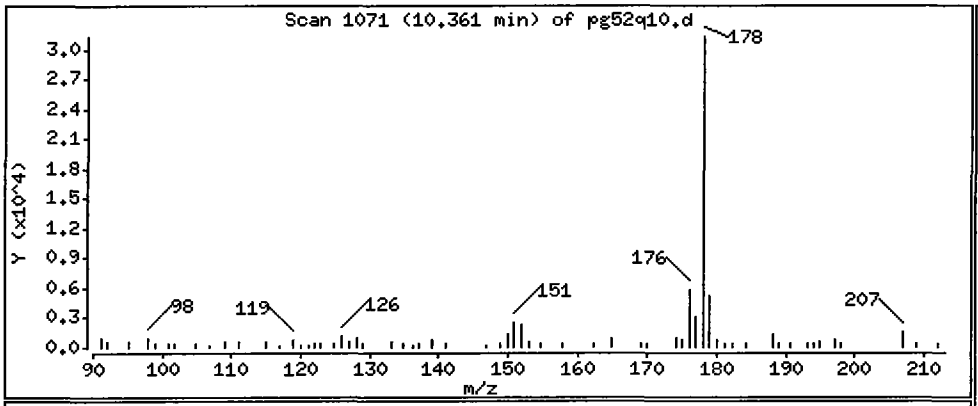
Operator: VTS

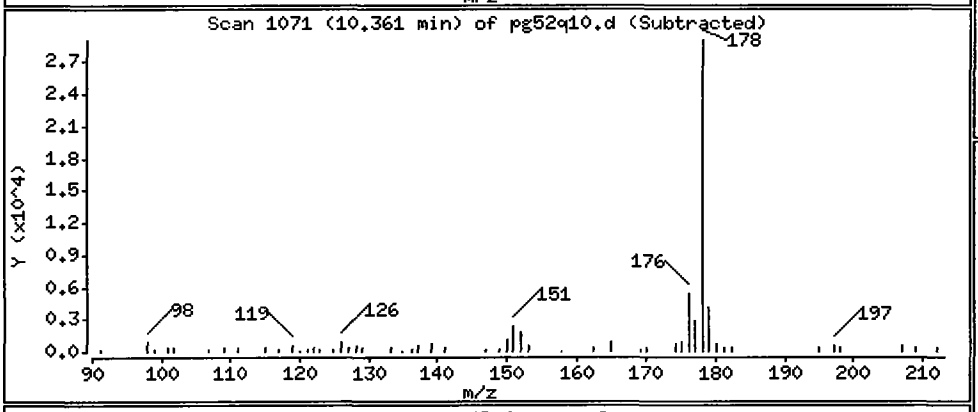
Column phase: ZB-5msi

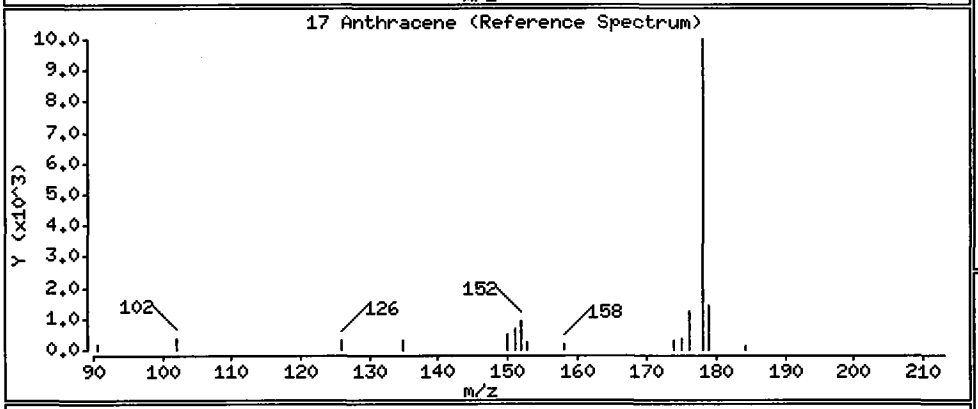
Column diameter: 0.25

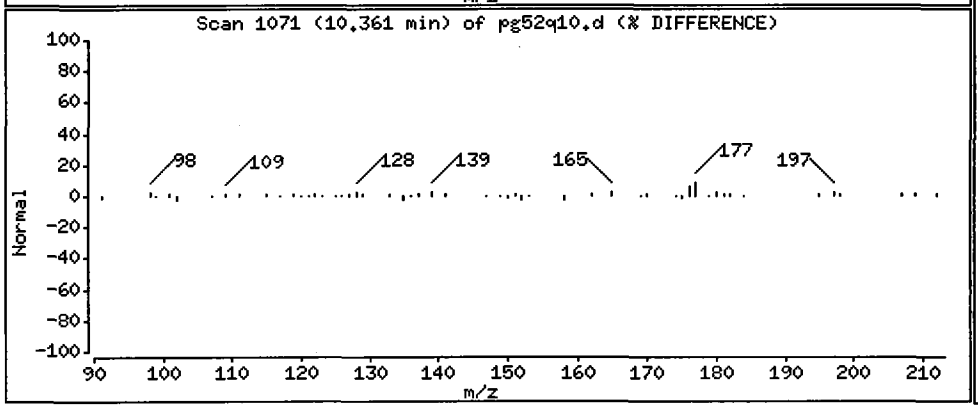
17 Anthracene

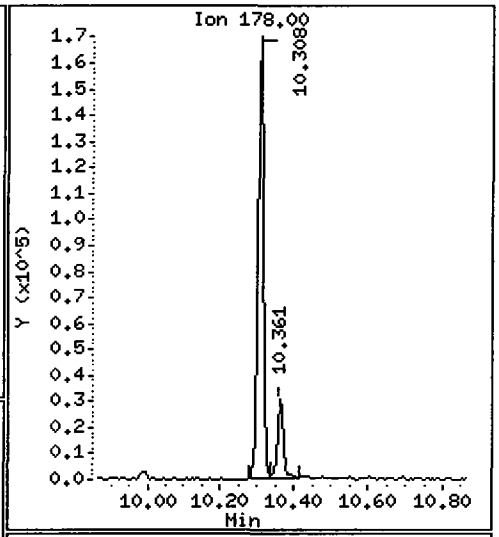
Concentration: 100.4 ug/kg

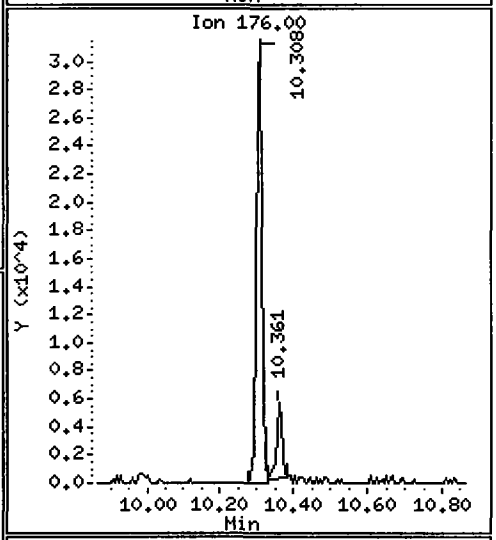


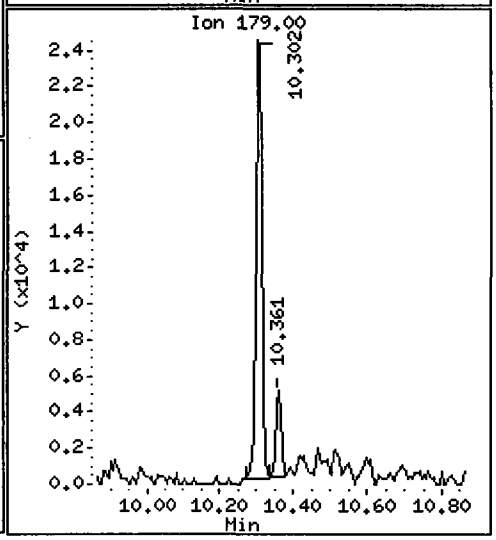












Data File: /chem3/nt1.i/20090718.b/pg52q10.d

Date : 18-JUL-2009 13:28

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

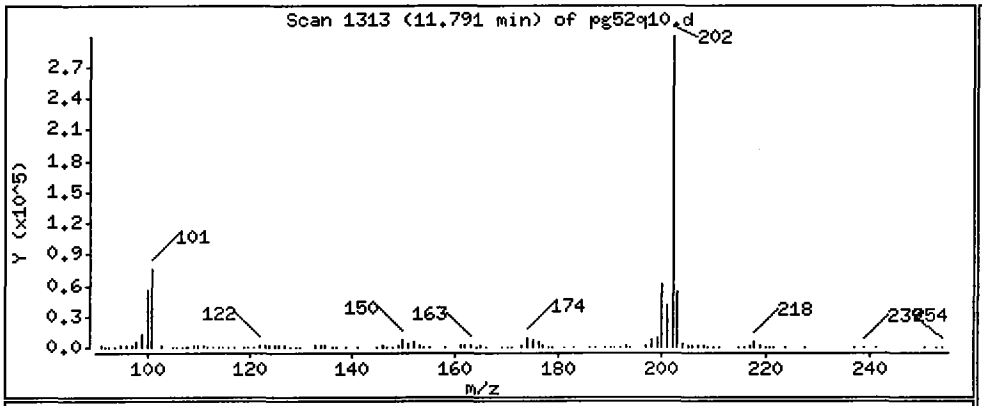
Operator: VTS

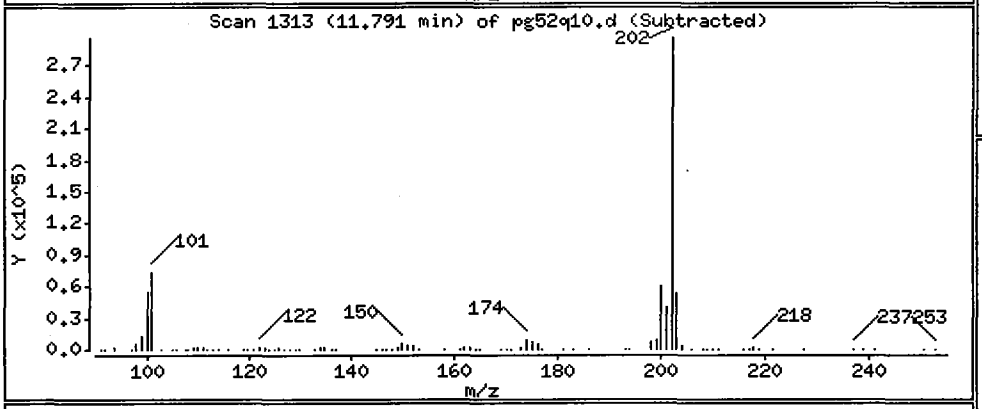
Column phase: ZB-5msi

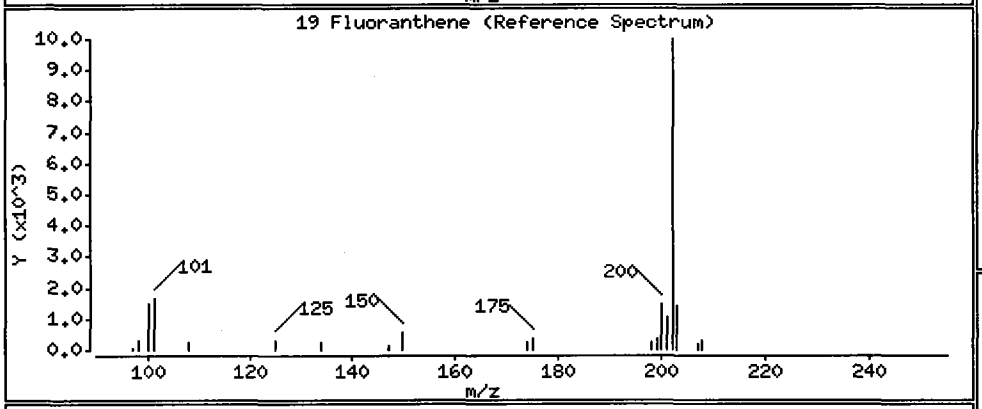
Column diameter: 0.25

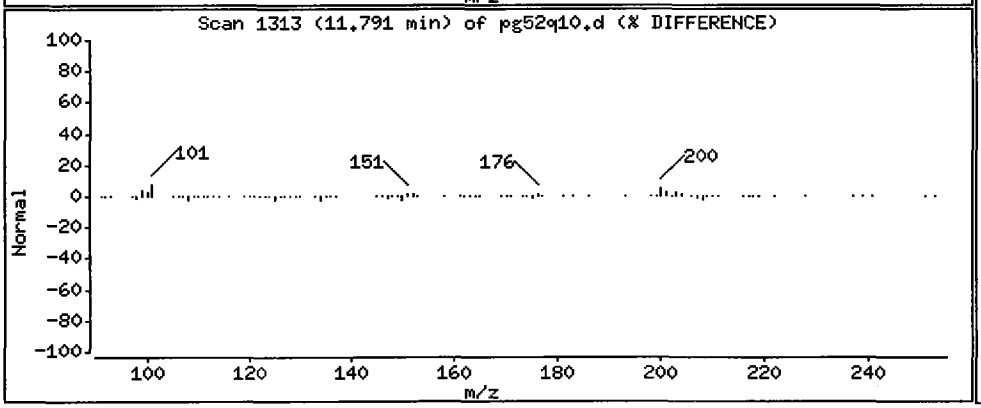
19 Fluoranthene

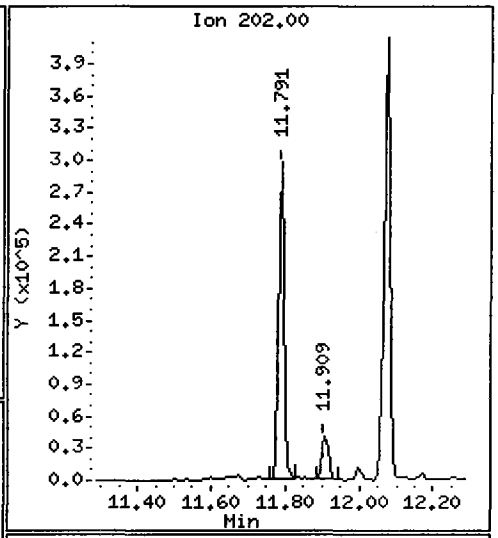
Concentration: 996.1 ug/kg

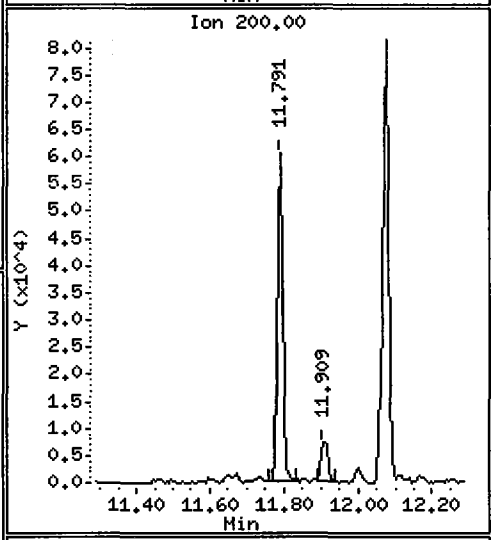


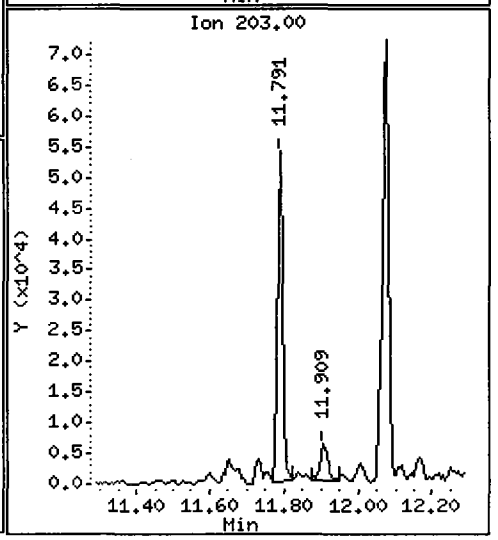












Data File: /chem3/nt1.i/20090718.b/pg52q10.d

Date : 18-JUL-2009 13:28

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

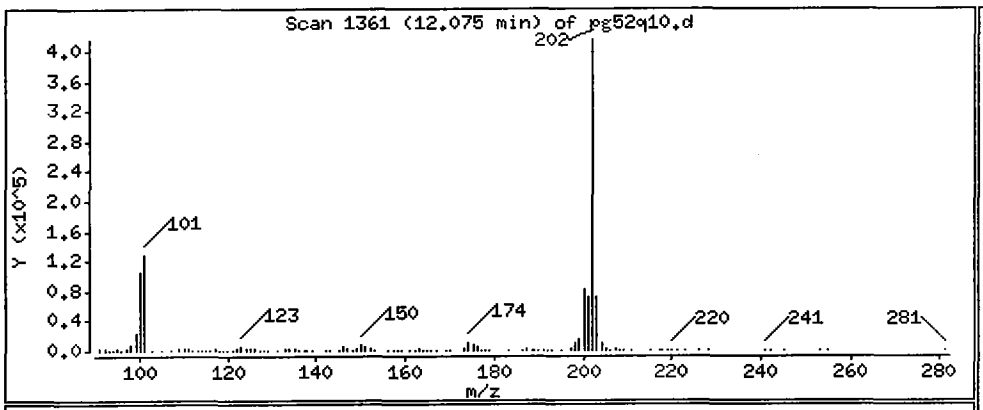
Operator: VTS

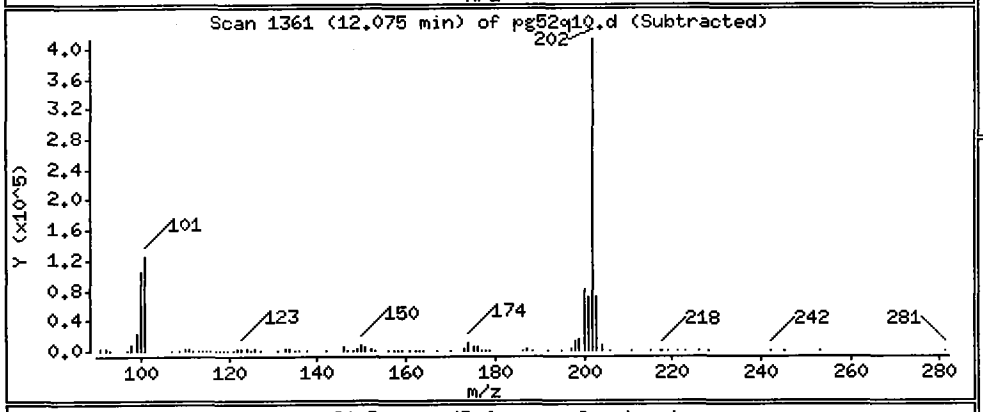
Column phase: ZB-5msi

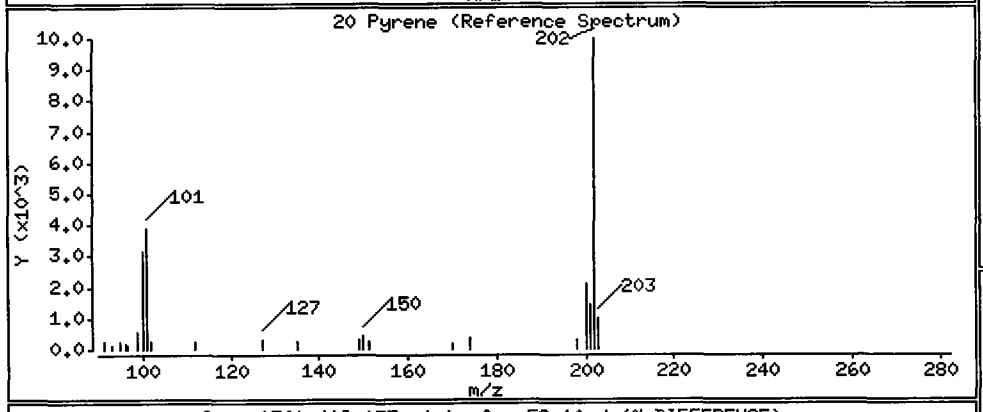
Column diameter: 0.25

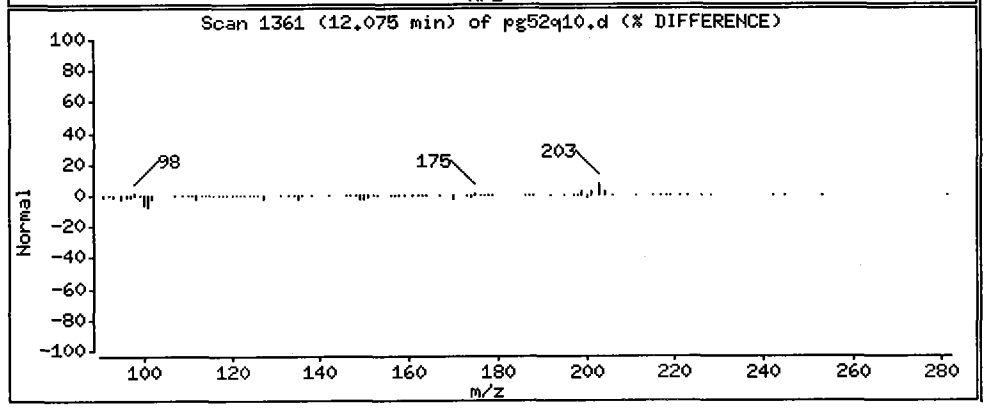
20 Pyrene

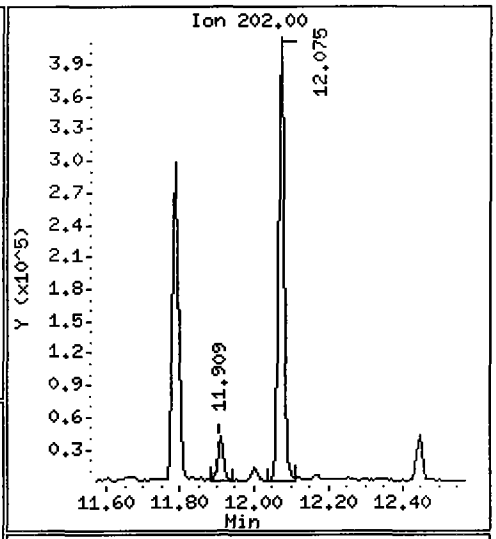
Concentration: 1278 ug/kg

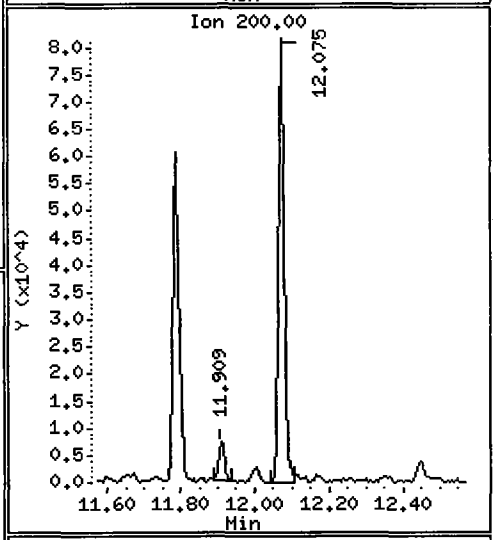


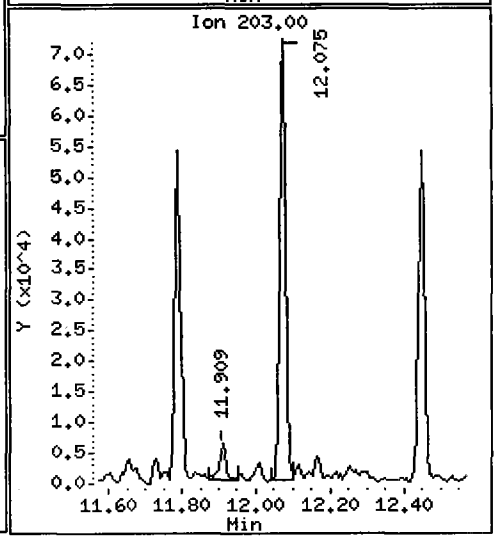












Data File: /chem3/nt1.i/20090718.b/pg52q10.d

Date : 18-JUL-2009 13:28

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

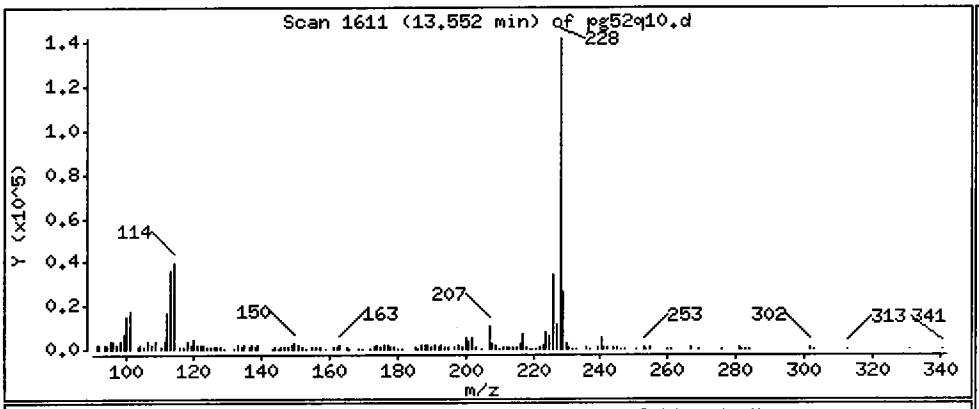
Operator: VTS

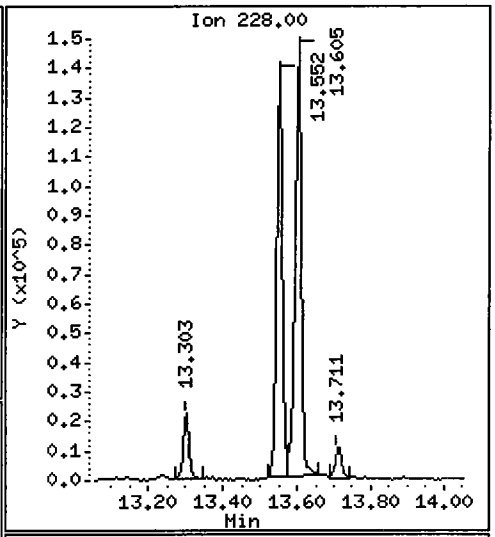
Column phase: ZB-5msi

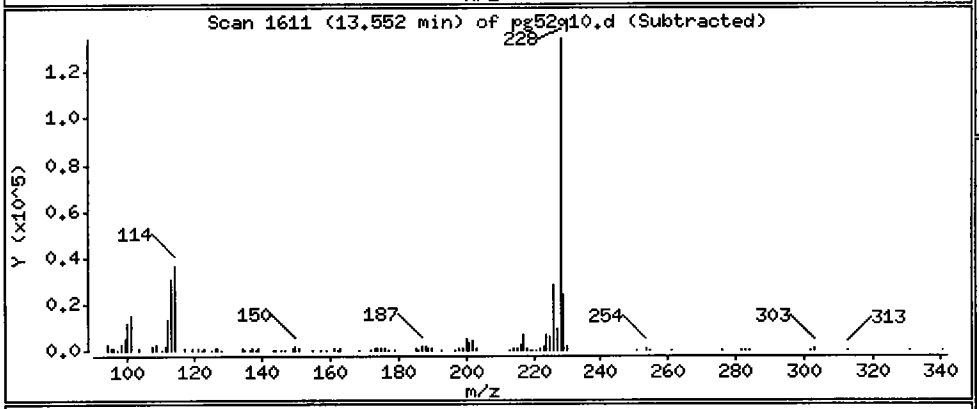
Column diameter: 0.25

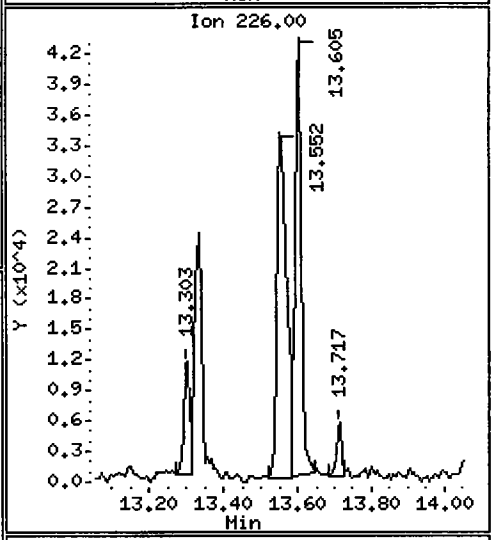
22 Benzo(a)anthracene

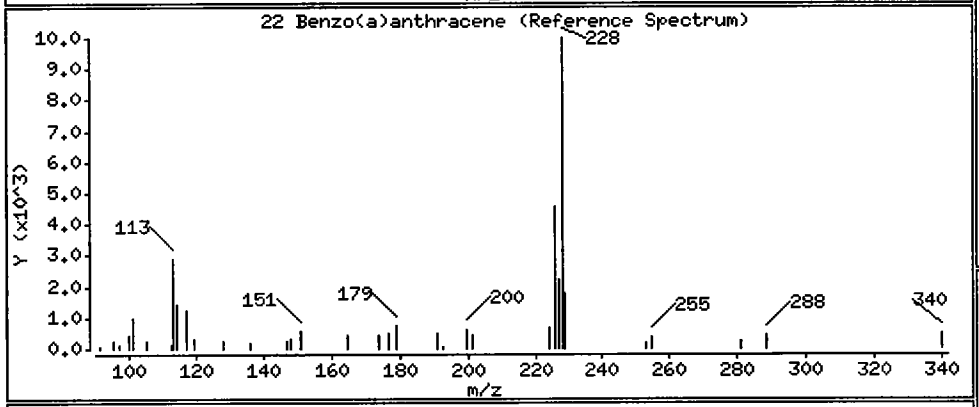
Concentration: 639.9 ug/kg

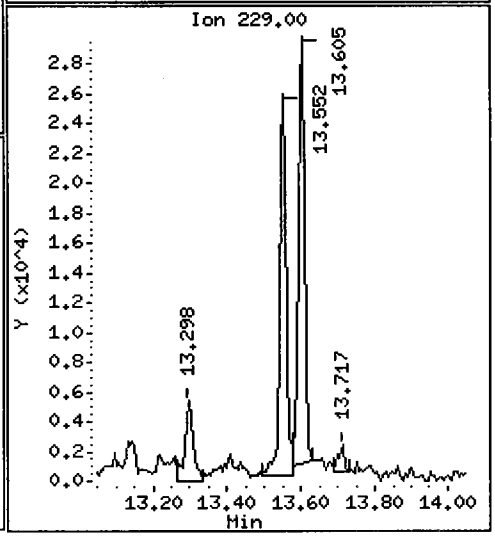


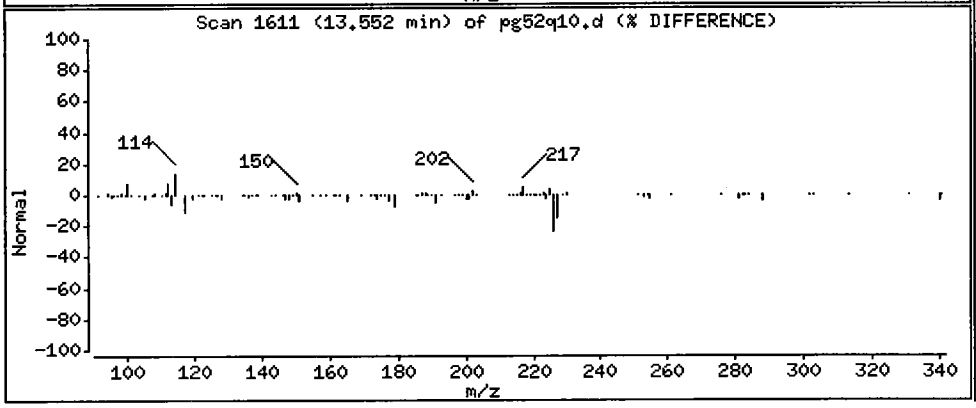












Data File: /chem3/nt1.i/20090718.b/pg52q10.d

Date : 18-JUL-2009 13:28

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

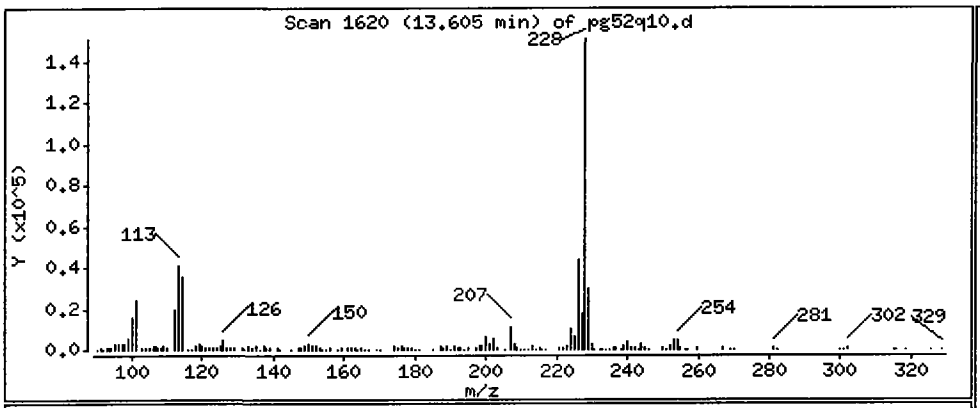
Operator: VTS

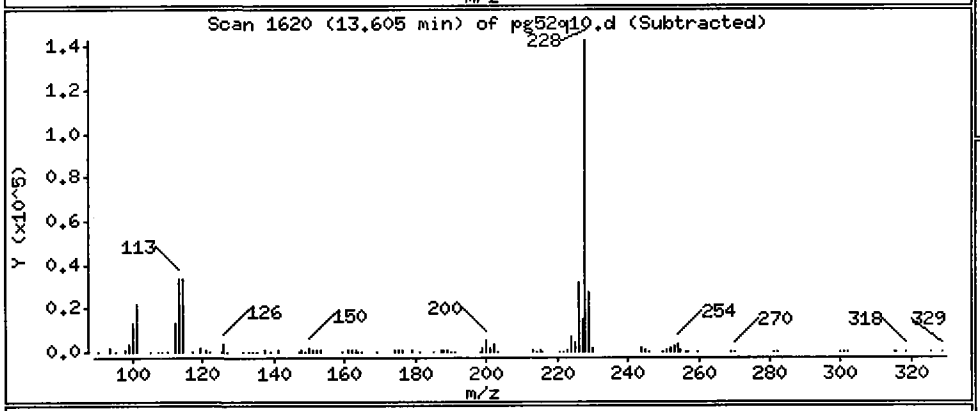
Column phase: ZB-5msi

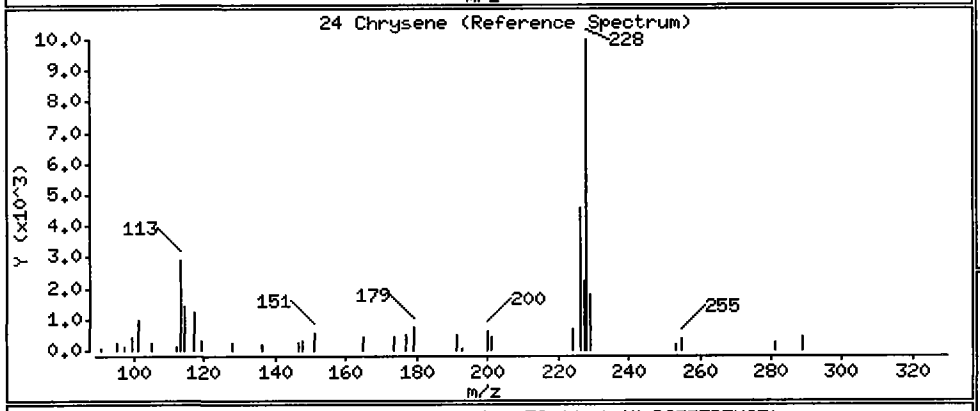
Column diameter: 0.25

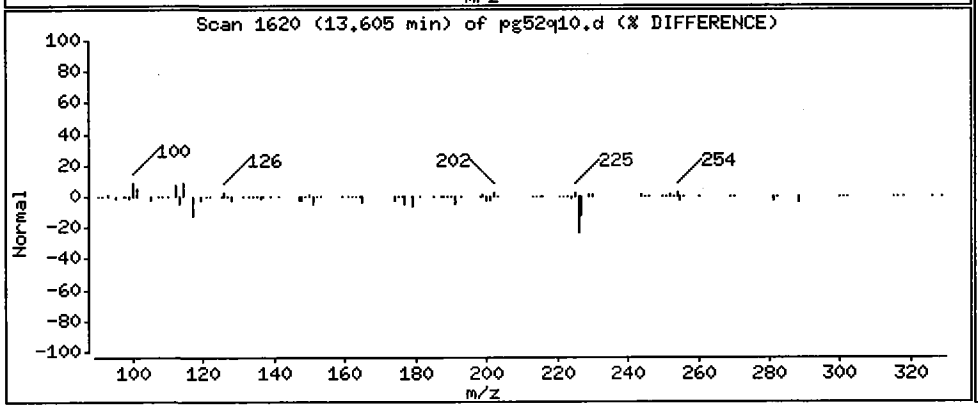
24 Chrysene

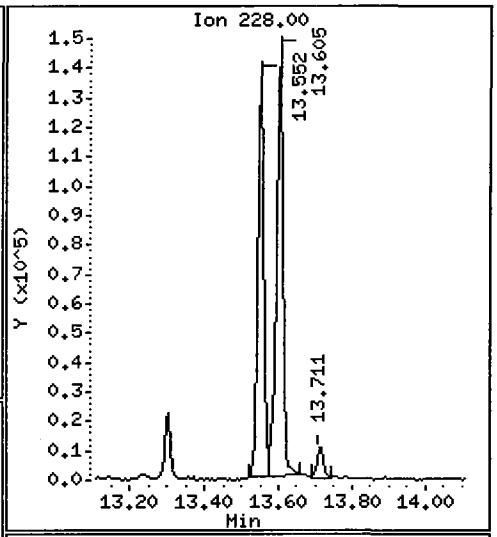
Concentration: 702.0 ug/kg

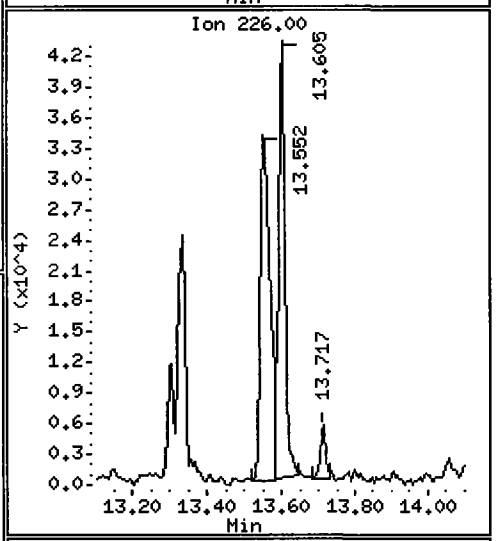


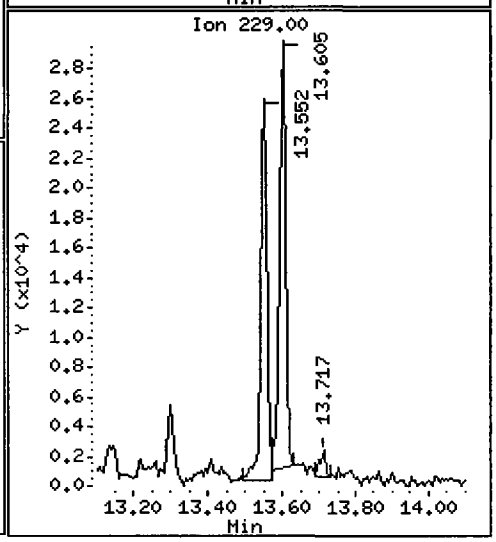












Data File: /chem3/nt1.i/20090718.b/pg52q10.d

Date : 18-JUL-2009 13:28

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

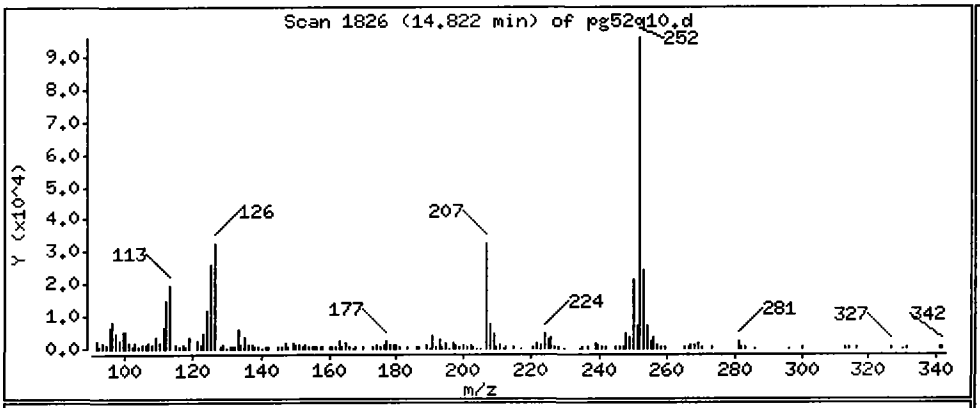
Operator: VTS

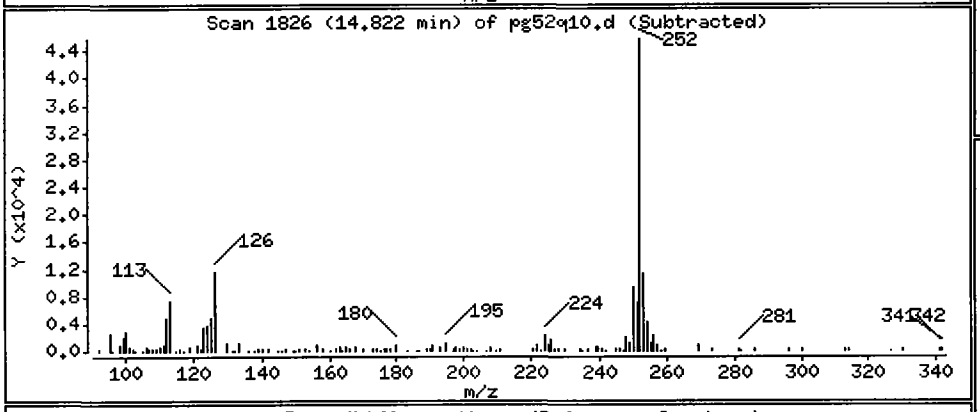
Column phase: ZB-5msi

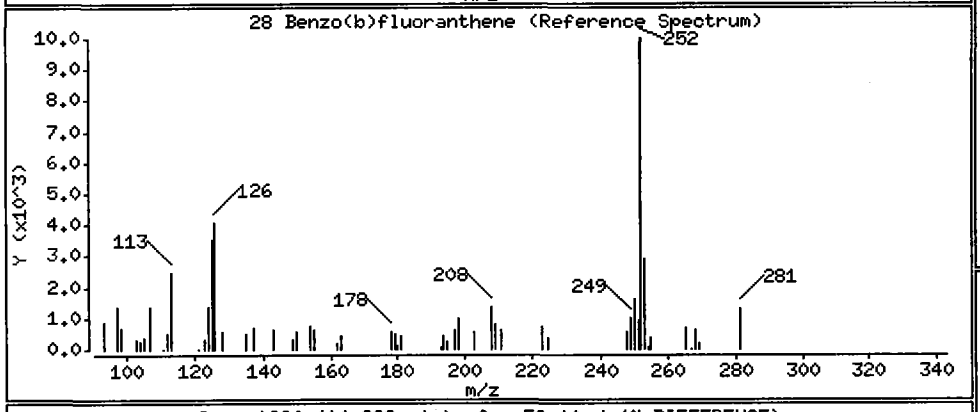
Column diameter: 0.25

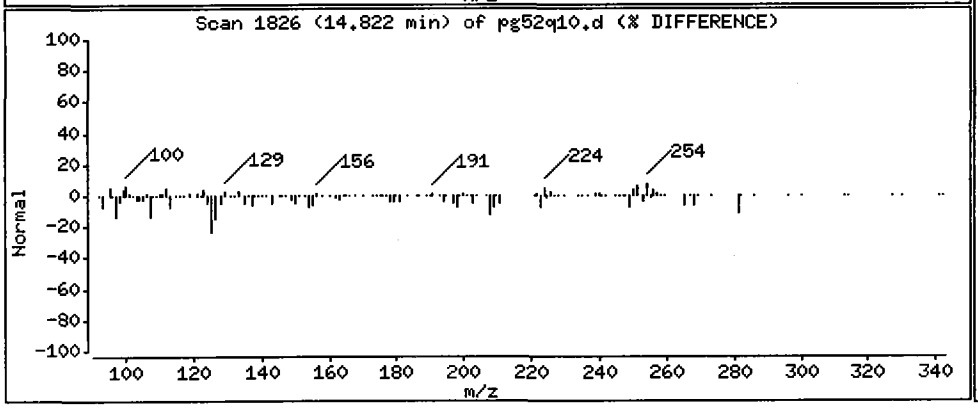
28 Benzo(b)fluoranthene

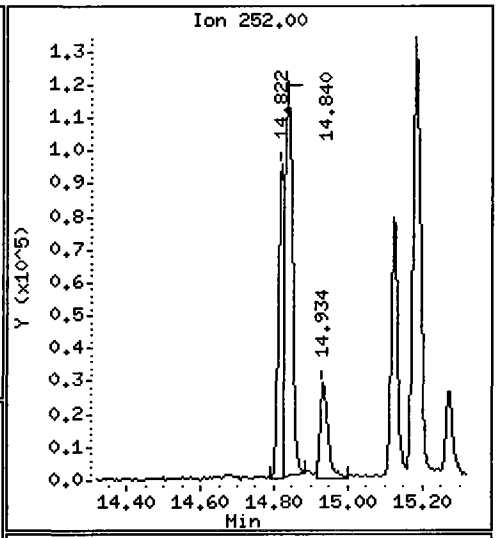
Concentration: 444.6 ug/kg

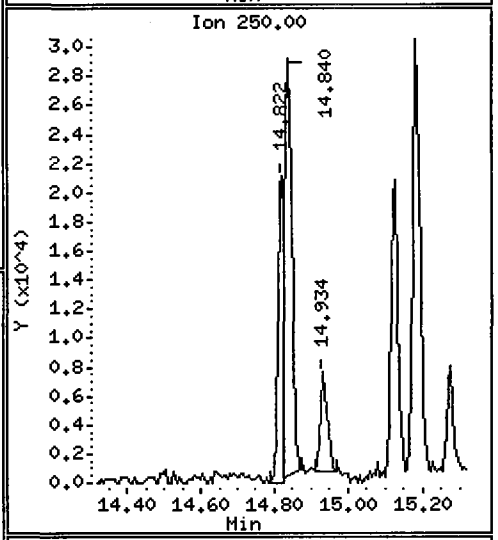


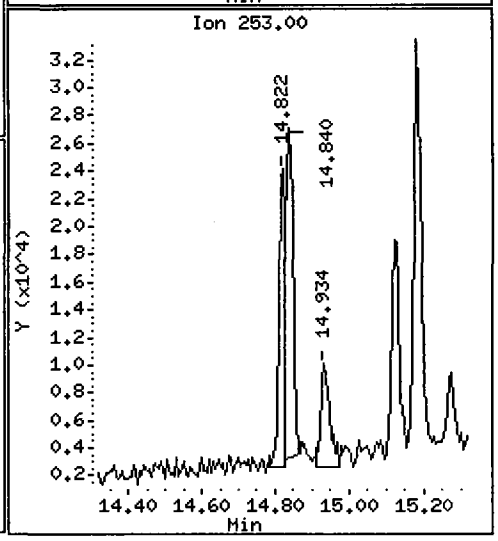












Data File: /chem3/nt1.i/20090718.b/pg52q10.d

Date : 18-JUL-2009 13:28

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

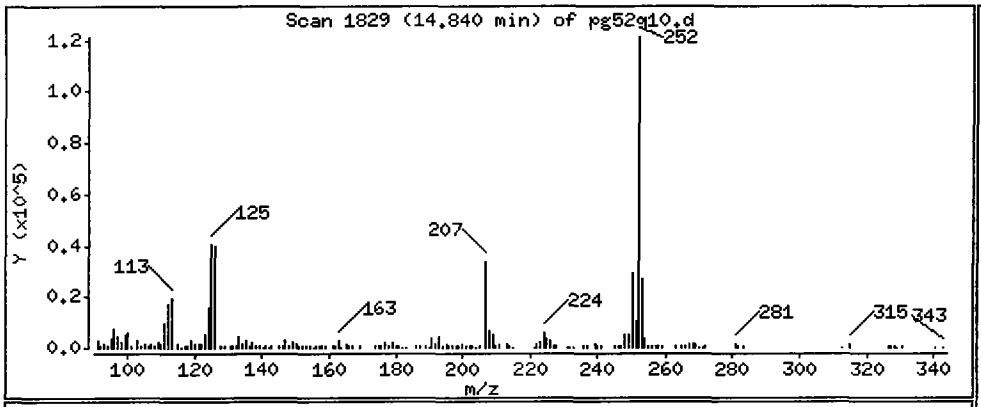
Operator: VTS

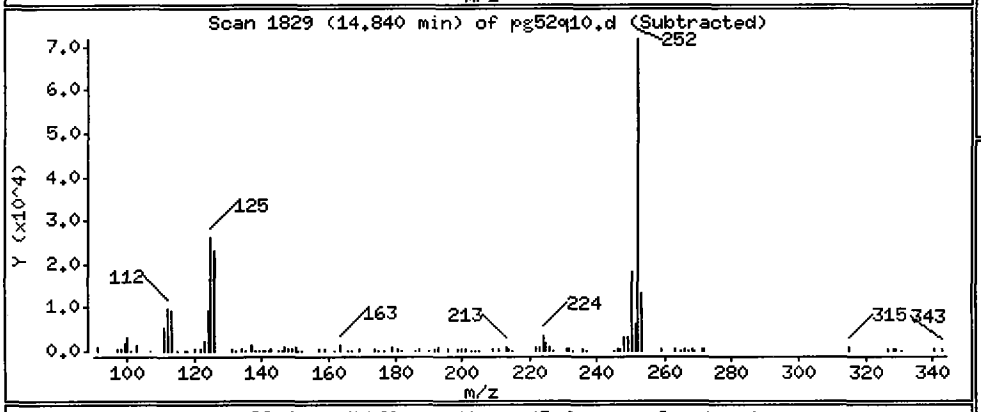
Column phase: ZB-5msi

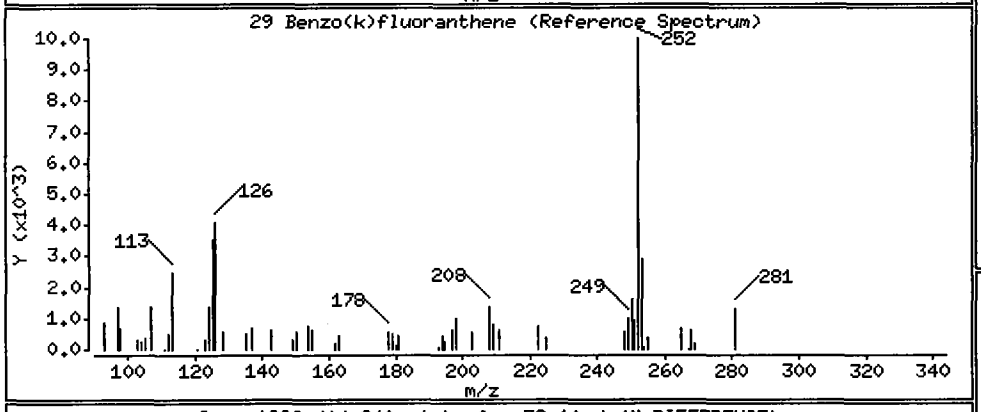
Column diameter: 0.25

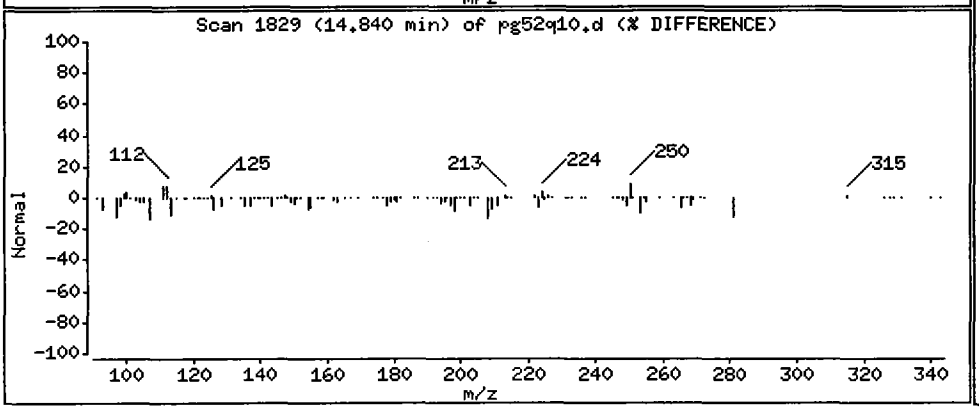
29 Benzo(k)fluoranthene

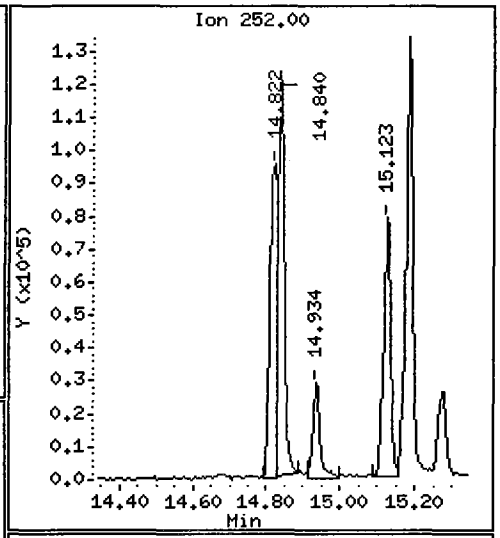
Concentration: 560.0 ug/kg

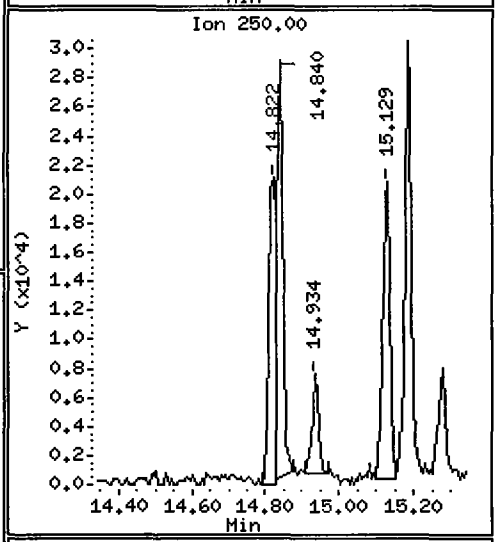


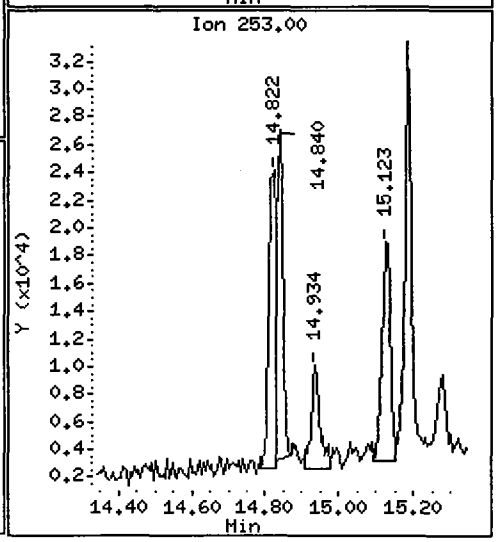












Data File: /chem3/nt1.i/20090718.b/pg52q10.d

Date : 18-JUL-2009 13:28

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

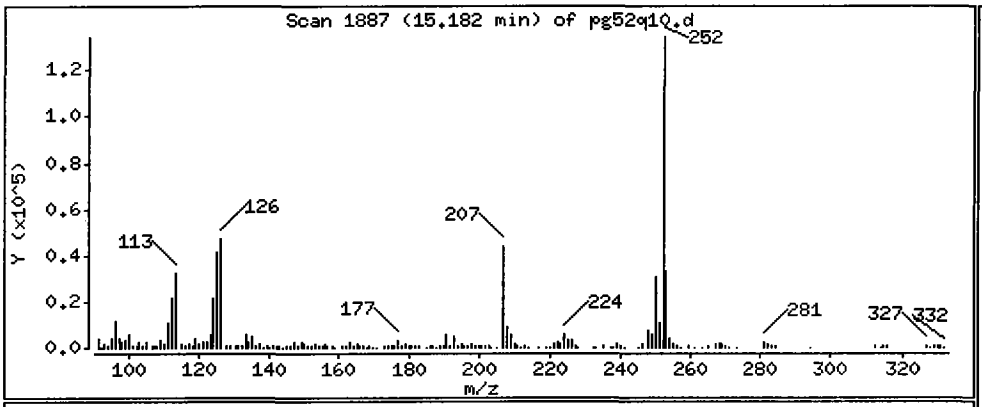
Operator: VTS

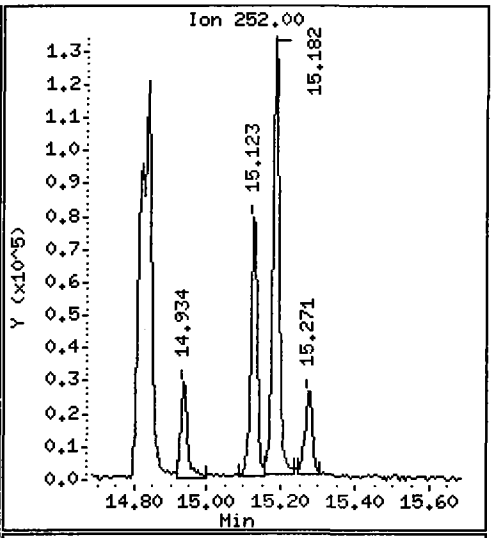
Column phase: ZB-5msi

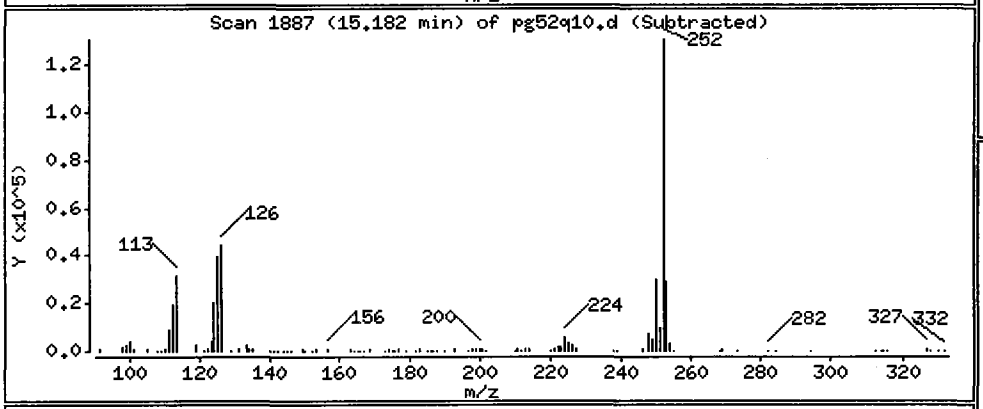
Column diameter: 0.25

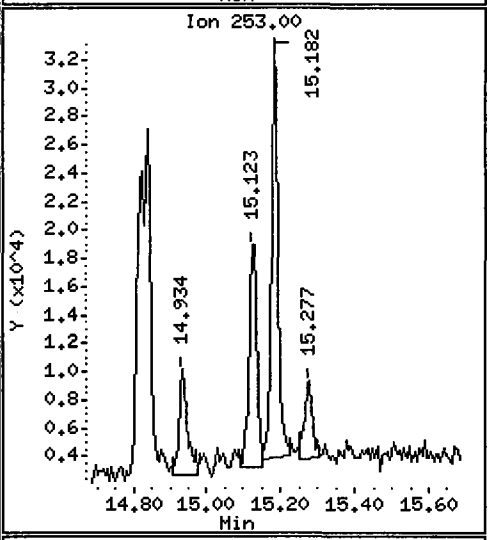
30 Benzo(a)pyrene

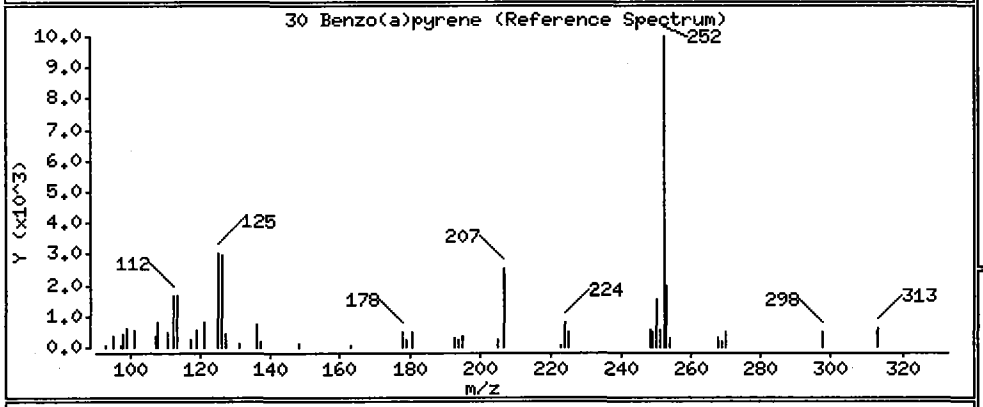
Concentration: 772.5 ug/kg

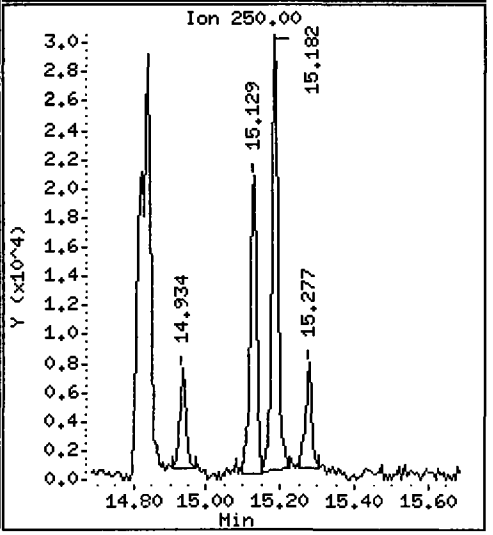


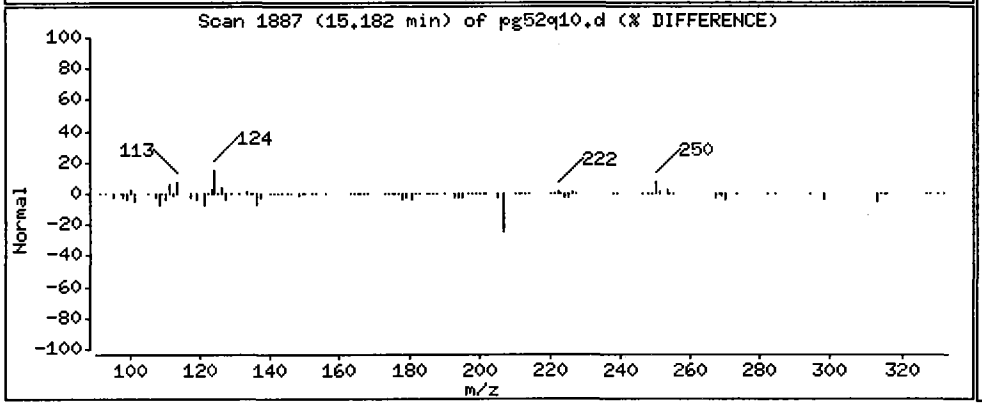












Data File: /chem3/nt1.i/20090718.b/pg52q10.d

Date : 18-JUL-2009 13:28

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

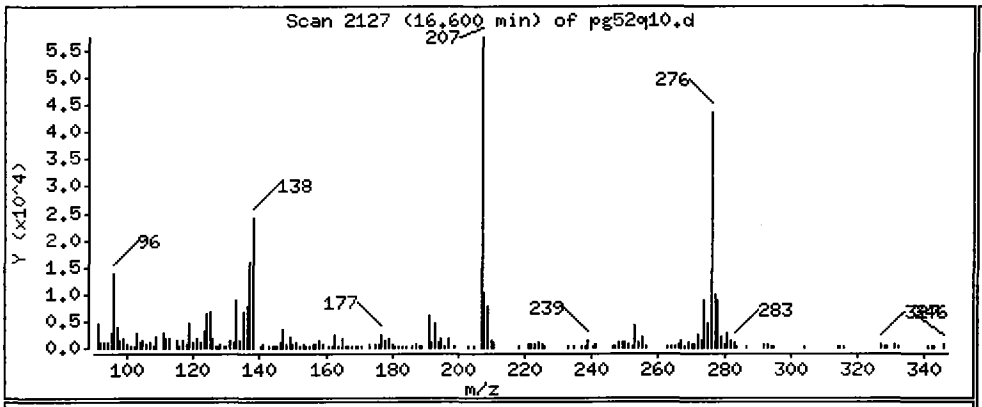
Operator: VTS

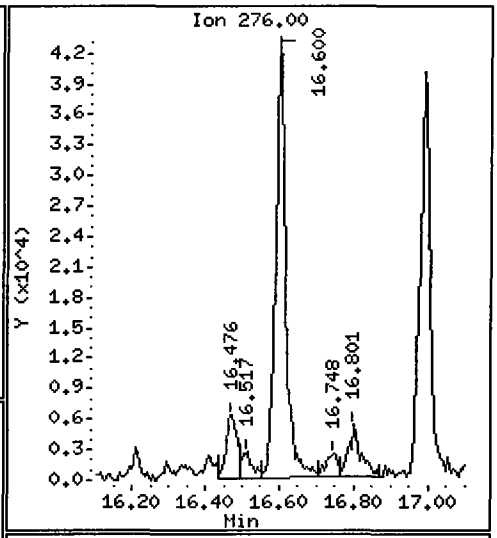
Column phase: ZB-5msi

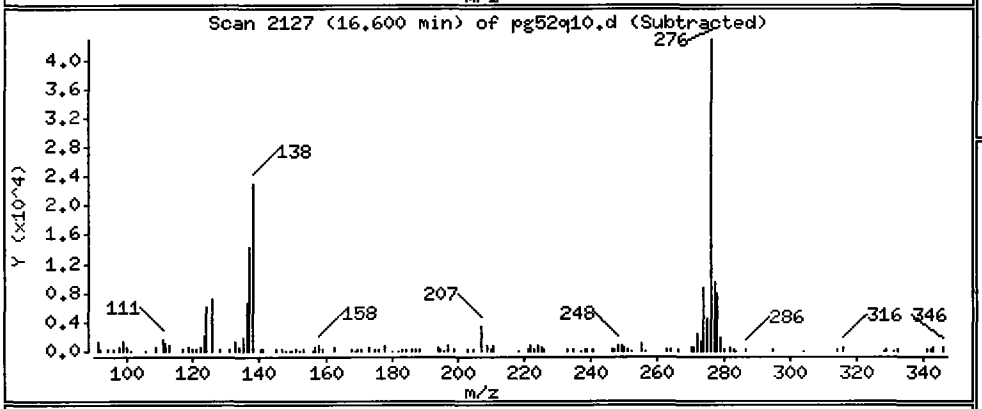
Column diameter: 0.25

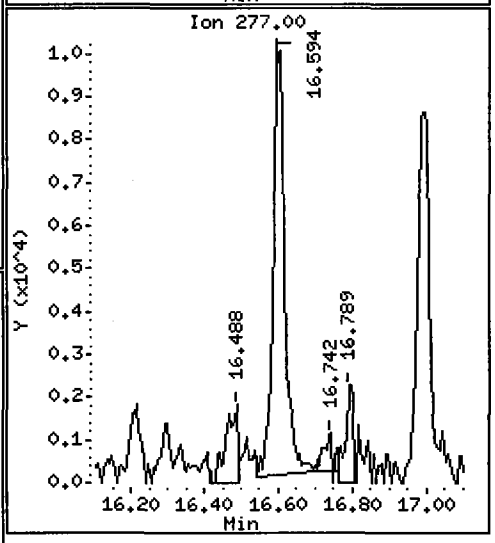
33 Indeno(1,2,3-cd)pyrene

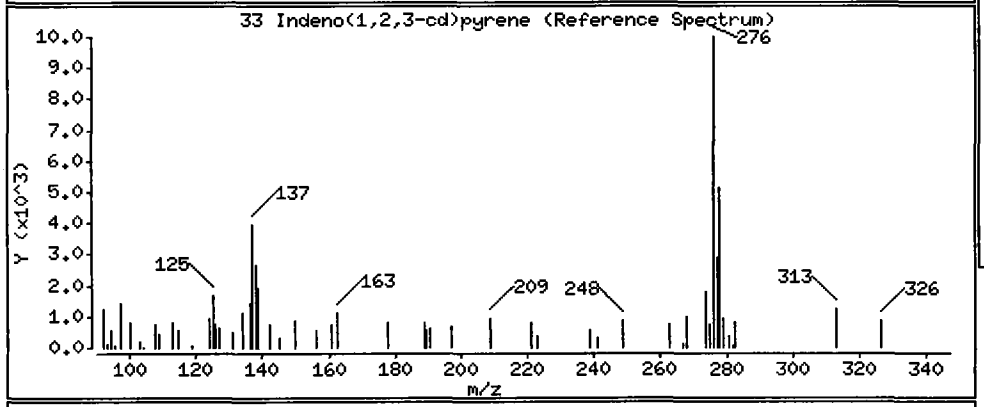
Concentration: 370.7 ug/kg

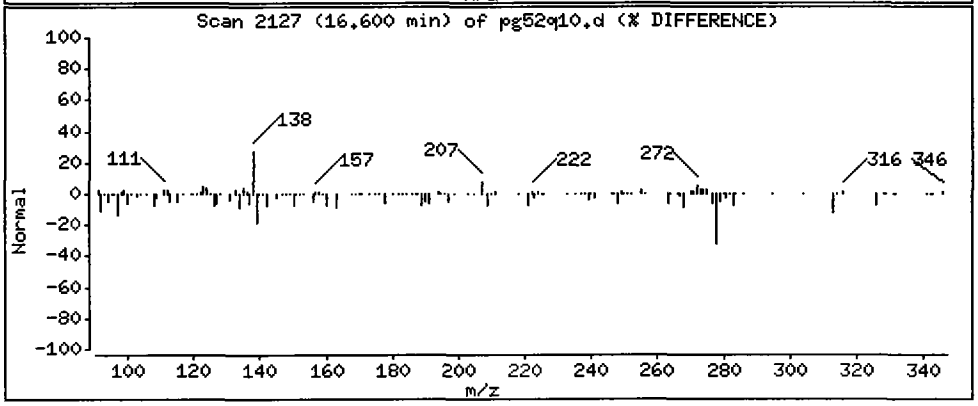












Data File: /chem3/nt1.i/20090718.b/pg52q10.d

Date : 18-JUL-2009 13:28

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

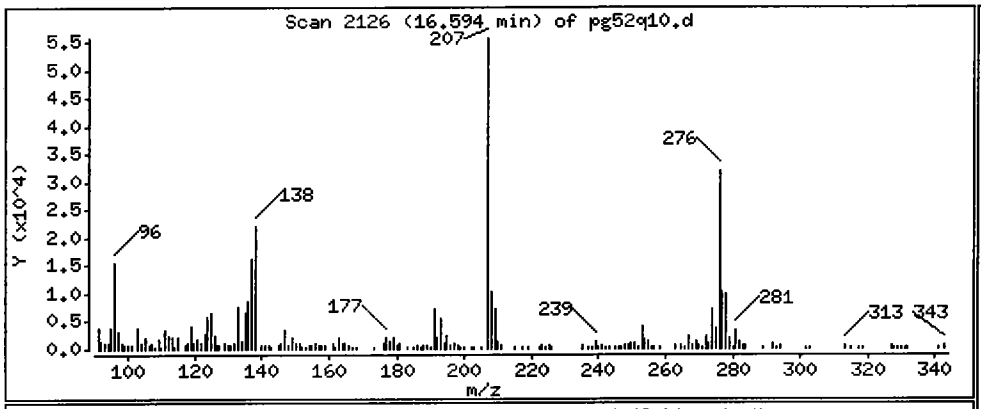
Operator: VTS

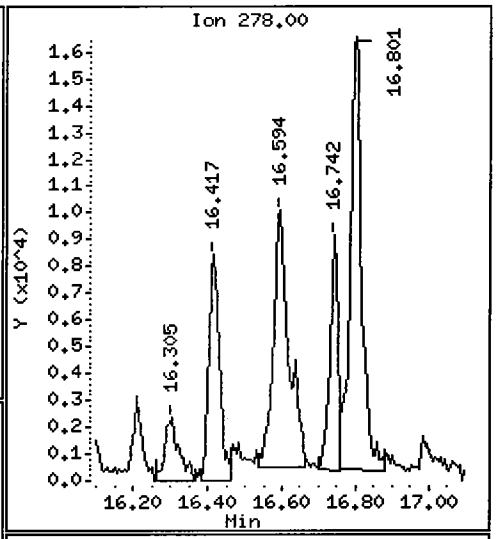
Column phase: ZB-5msi

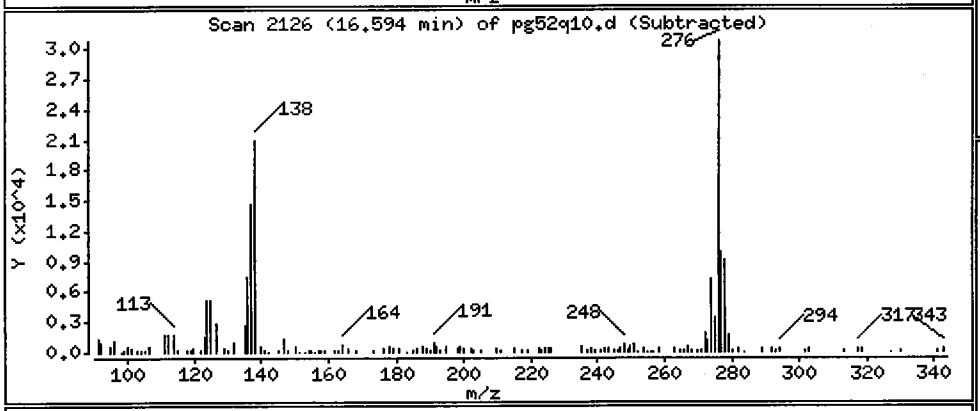
Column diameter: 0.25

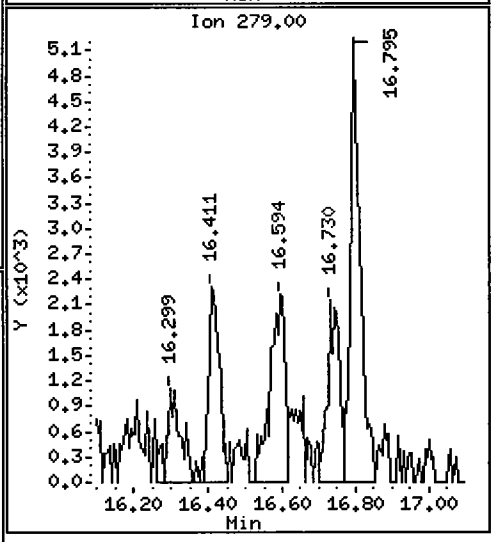
34 Dibenz(a,h)anthracene

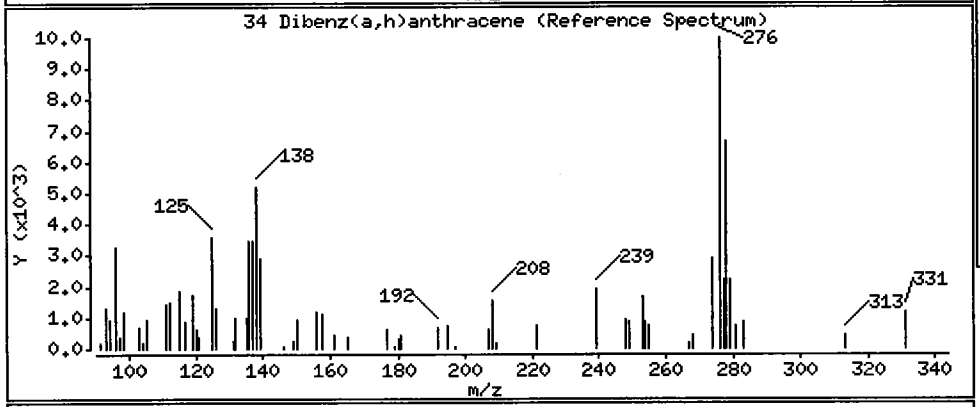
Concentration: 166.2 ug/kg

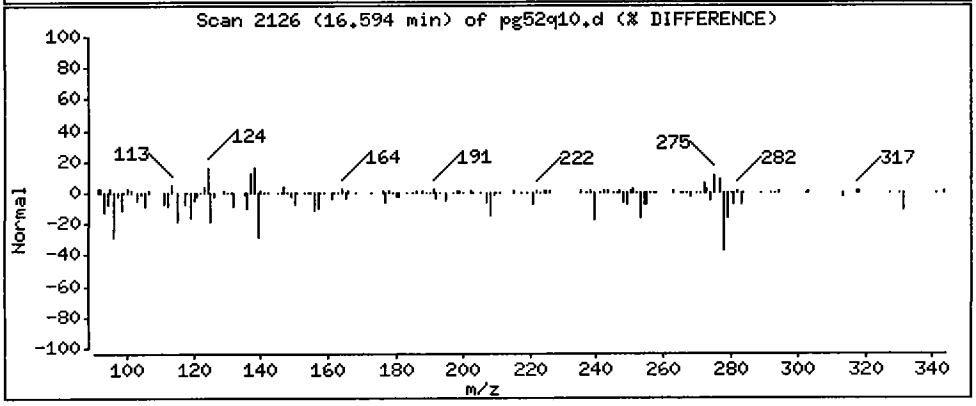












Data File: /chem3/nt1.i/20090718.b/pg52q10.d

Date : 18-JUL-2009 13:28

Client ID: AHA-01-1NW(0-2.5)

Instrument: nt1.i

Sample Info: PG52Q

Volume Injected (uL): 1.0

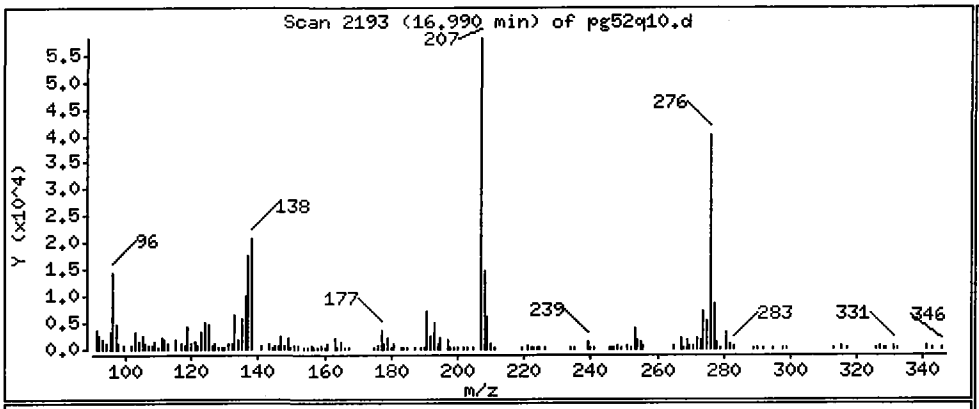
Operator: VTS

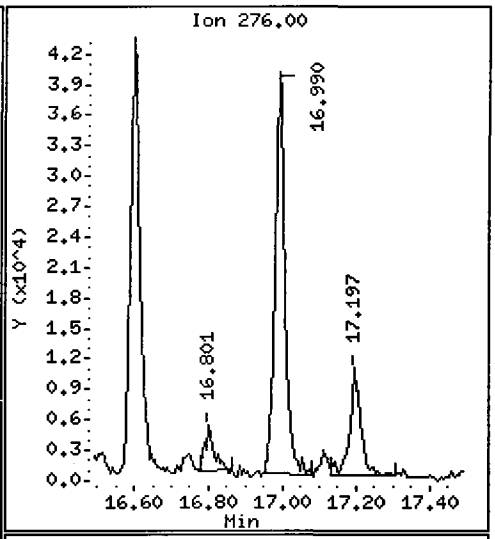
Column phase: ZB-5msi

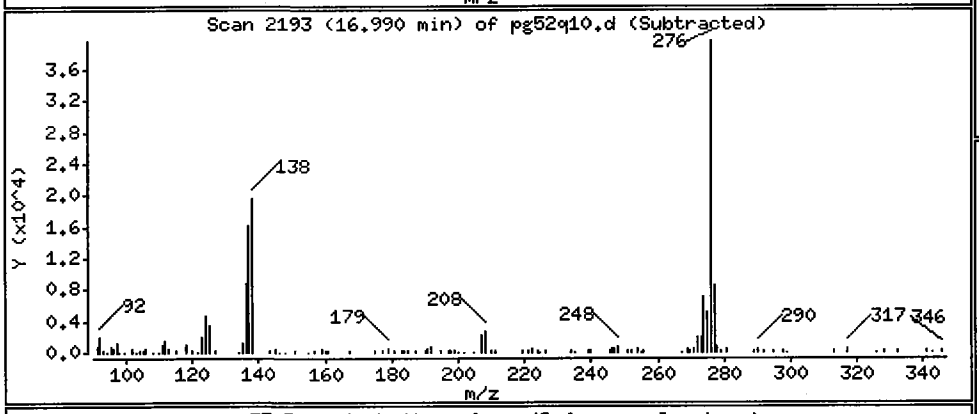
Column diameter: 0.25

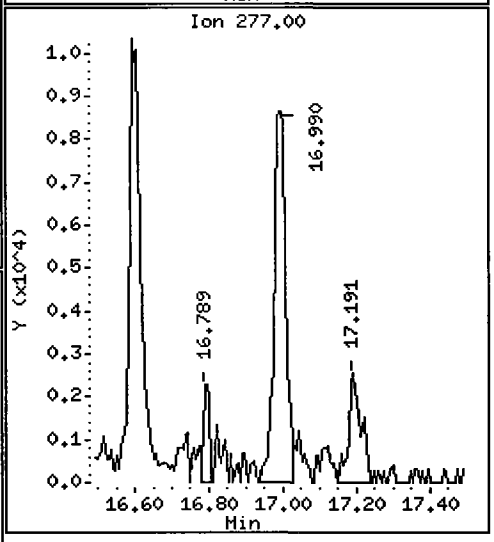
35 Benzo(g,h,i)perylene

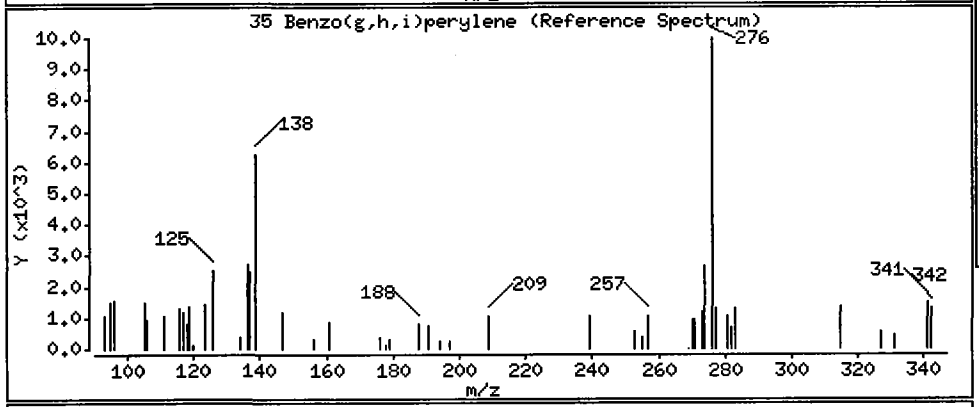
Concentration: 356.7 ug/kg

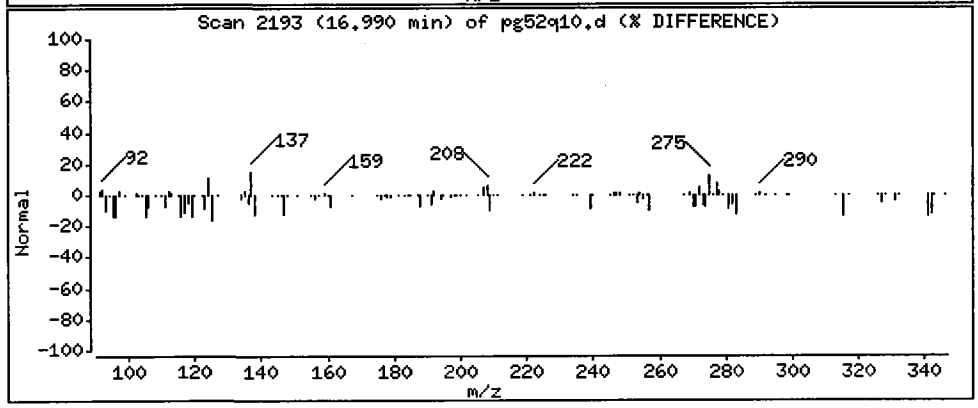












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: AHA-01-CEN(2.5-3.5)
SAMPLE

Lab Sample ID: PG52T
LIMS ID: 09-16505
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 07/14/09
Date Analyzed: 07/18/09 01:26
Instrument/Analyst: NT1/YZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.6 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 14.1%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.7	< 4.7 U
91-57-6	2-Methylnaphthalene	4.7	< 4.7 U
90-12-0	1-Methylnaphthalene	4.7	< 4.7 U
208-96-8	Acenaphthylene	4.7	< 4.7 U
83-32-9	Acenaphthene	4.7	< 4.7 U
86-73-7	Fluorene	4.7	< 4.7 U
85-01-8	Phenanthrene	4.7	< 4.7 U
120-12-7	Anthracene	4.7	< 4.7 U
206-44-0	Fluoranthene	4.7	< 4.7 U
129-00-0	**Pyrene**	**4.7**	**7.1**
56-55-3	Benzo(a)anthracene	4.7	< 4.7 U
218-01-9	**Chrysene**	**4.7**	**5.2**
205-99-2	Benzo(b)fluoranthene	4.7	< 4.7 U
207-08-9	**Benzo(k)fluoranthene**	**4.7**	**4.7**
50-32-8	**Benzo(a)pyrene**	**4.7**	**6.1**
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	< 4.7 U
53-70-3	Dibenz(a,h)anthracene	4.7	< 4.7 U
191-24-2	Benzo(g,h,i)perylene	4.7	< 4.7 U
132-64-9	Dibenzofuran	4.7	< 4.7 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	81.3%
d14-Dibenzo(a,h)anthracen	83.3%

YZ 7/18/09

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20090717.b/pg52t.d
Lab Smp Id: PG52T Client Smp ID: AHA-01-CEN(2.5-3.5)
Inj Date : 18-JUL-2009 01:26
Operator : VTS Inst ID: nt1.i
Smp Info : PG52T
Misc Info : 09-16505
Comment : 1ul Injection
Method : /chem3/nt1.i/20090717.b/simpna.m
Meth Date : 18-Jul-2009 10:30 yev Quant Type: ISTD
Cal Date : 11-JUL-2009 14:37 Cal File: ic0711f.d
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	12.30000	Weight of sample extracted (g)
M	14.10000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
*	1 Naphthalene-d8	136	6.474	6.474	(1.000)	534029	2.00000	
	2 Naphthalene	128	Compound Not Detected.					
$	3 2-Methylnaphthalene-d10	152	7.219	7.218	(1.115)	288285	2.44411	115.7
	4 2-Methylnaphthalene	142	Compound Not Detected.					
	5 1-Methylnaphthalene	142	Compound Not Detected.					
	7 Acenaphthylene	152	Compound Not Detected.					
*	8 Acenaphthene-d10	164	8.507	8.506	(1.000)	248702	2.00000	
	9 Acenaphthene	153	Compound Not Detected.					
	10 Dibenzofuran	168	Compound Not Detected.					
	11 Fluorene	166	Compound Not Detected.					
*	15 Phenanthrene-d10	188	10.303	10.302	(1.000)	373459	2.00000	
	16 Phenanthrene	178	Compound Not Detected.					
	17 Anthracene	178	Compound Not Detected.					
	19 Fluoranthene	202	11.815	11.815	(1.147)	14820	0.09290 J	4.396

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.099	12.098	(0.890)	25142	0.15128	7.159
	22 Benzo(a)anthracene	228	13.576	13.581	(0.998)	9957	0.08531 J	4.037
*	23 Chrysene-d12	240	13.600	13.599	(1.000)	248164	2.00000	
	24 Chrysene	228	13.629	13.634	(1.002)	12882	0.10547	4.991
	28 Benzo(b)fluoranthene	252	14.846	14.846	(0.972)	8597	0.08089 J	3.828
	29 Benzo(k)fluoranthene	252	14.858	14.869	(0.973)	11882	0.10424	4.933
	30 Benzo(a)pyrene	252	15.207	15.218	(0.996)	11824	0.13227	6.259
*	31 Perylene-d12	264	15.271	15.277	(1.000)	212485	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
$	32 Dibenz(a,h)anthrancene-d14	292	16.589	16.594	(1.086)	131183	2.49960	118.3
	34 Dibenz(a,h)anthracene	278	Compound Not Detected.					
	35 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: pg52t.d
Lab Smp Id: PG52T
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20090717.b/simpna.m
Misc Info: 09-16505

Calibration Date: 17-JUL-2009
Calibration Time: 13:57
Client Smp ID: AHA-01-CEN(2.5-3.5)
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	463169	231584	926338	534029	15.30
8 Acenaphthene-d10	213444	106722	426888	248702	16.52
15 Phenanthrene-d10	326462	163231	652924	373459	14.40
23 Chrysene-d12	224038	112019	448076	248164	10.77
31 Perylene-d12	206230	103115	412460	212485	3.03

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.47	5.97	6.97	6.47	0.01
8 Acenaphthene-d10	8.51	8.01	9.01	8.51	0.01
15 Phenanthrene-d10	10.30	9.80	10.80	10.30	0.00
23 Chrysene-d12	13.60	13.10	14.10	13.60	0.00
31 Perylene-d12	15.28	14.78	15.78	15.27	-0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

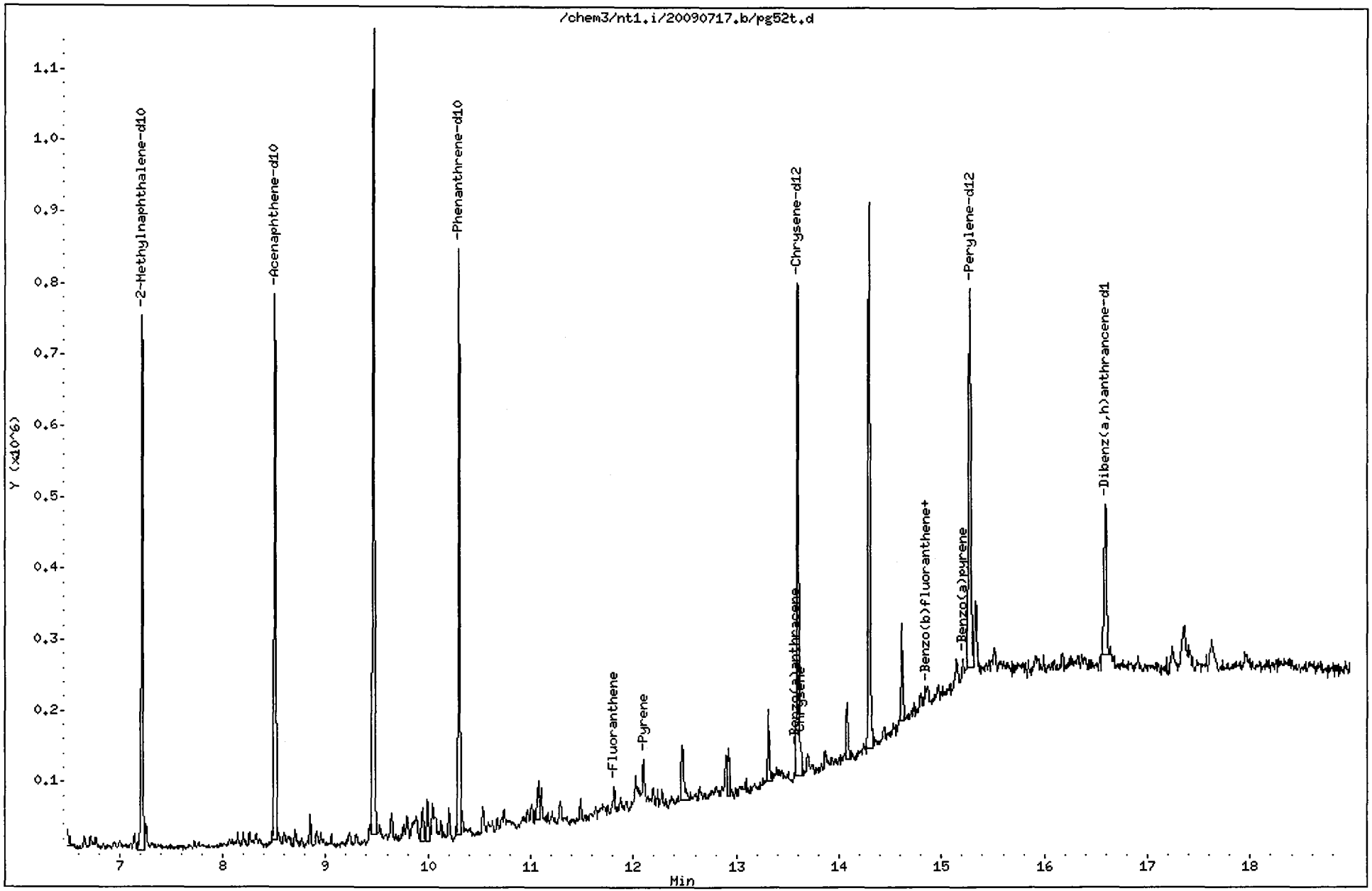
RECOVERY REPORT

Client Name: Anchor QEA
Client SDG: PG52
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: PG52T
Client Smp ID: AHA-01-CEN(2.5-3.5)
Level: LOW
Operator: VTS
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: waterlcs.spk
Quant Type: ISTD
Sublist File: pna1mn.sub
Method File: /chem3/nt1.i/20090717.b/simpna.m
Misc Info: 09-16505

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	142.0	115.7	81.47	34-100
$ 32 Dibenz(a,h)anthran	142.0	118.3	83.32	10-117

Data File: /chem3/nt1.i/20090717.b/pg52t.d
Date : 18-JUL-2009 01:26
Client ID: AHA-01-CEN(2.5-3.5)
Sample Info: PG52T
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



PG52:60215

Data File: /chem3/nt1.i/20090717.b/pg52t.d

Date : 18-JUL-2009 01:26

Client ID: AHA-01-CEN(2.5-3.5)

Instrument: nt1.i

Sample Info: PG52T

Volume Injected (uL): 1.0

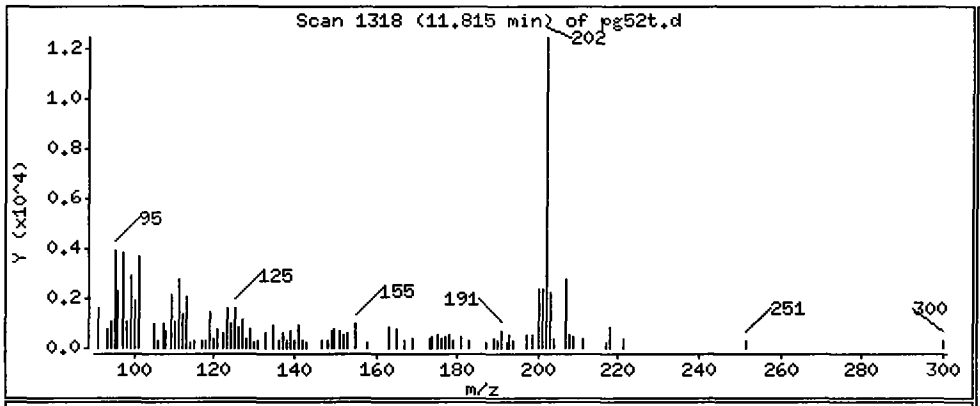
Operator: VTS

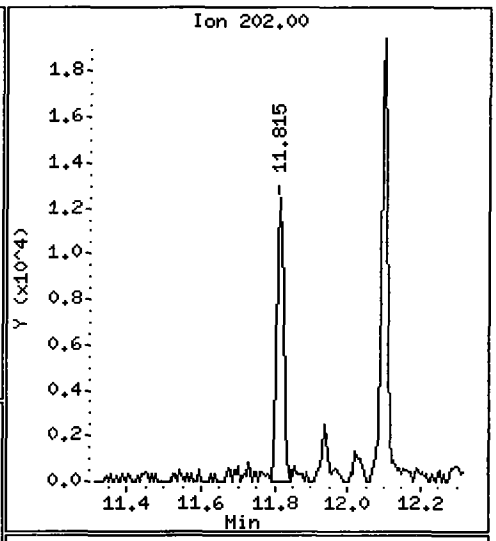
Column phase: ZB-5msi

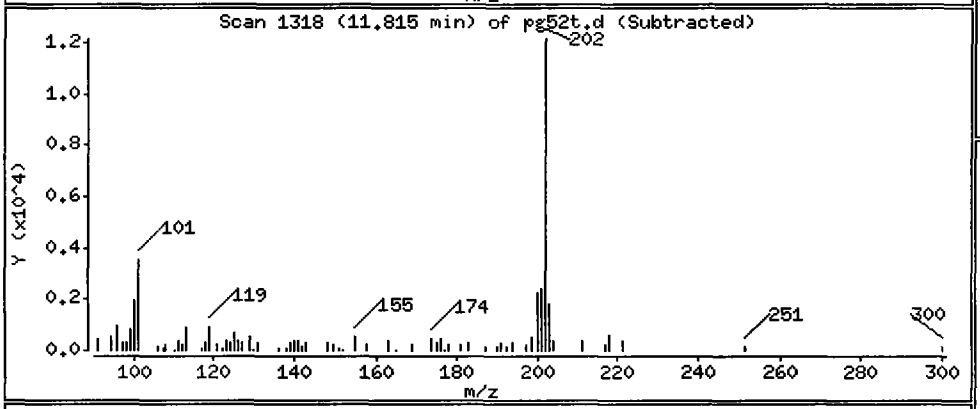
Column diameter: 0.25

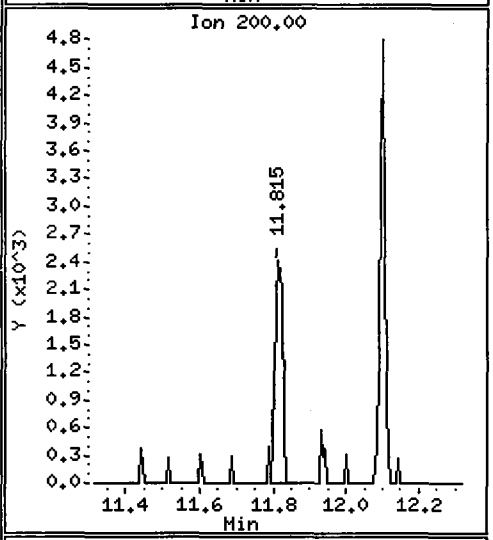
19 Fluoranthene

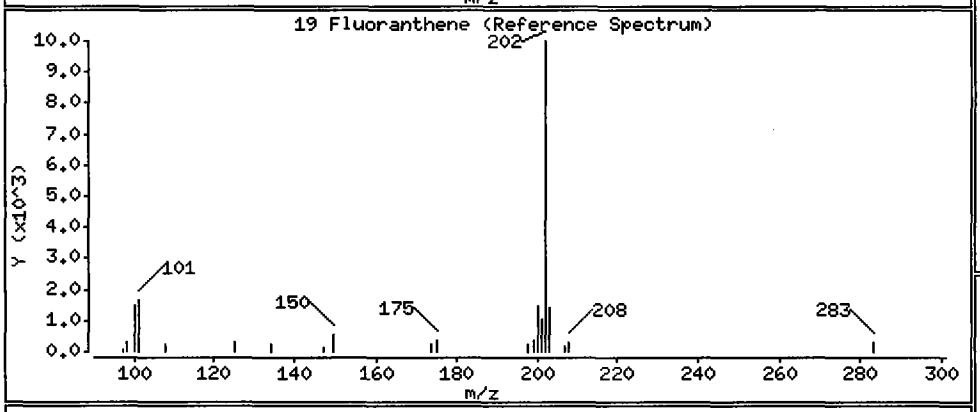
Concentration: 4.396 ug/kg

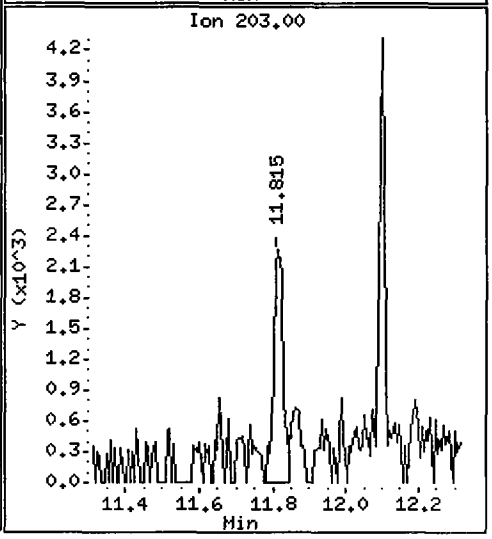


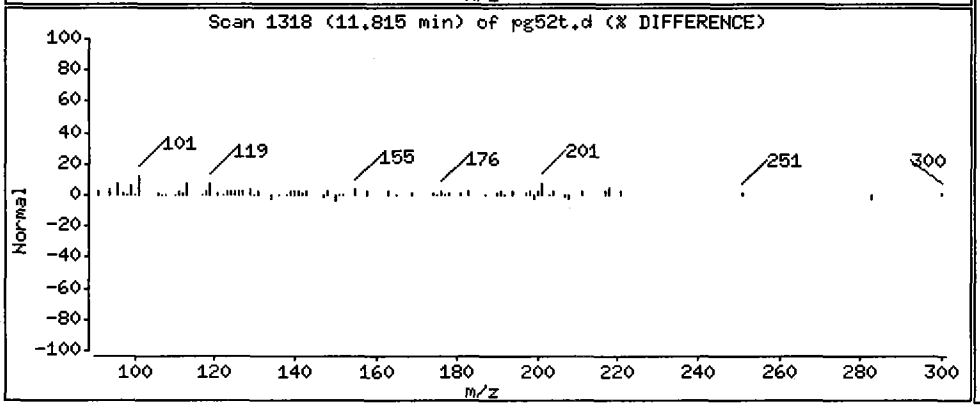












Data File: /chem3/nt1.i/20090717.b/pg52t.d

Date : 18-JUL-2009 01:26

Client ID: AHA-01-CEN(2.5-3.5)

Instrument: nt1.i

Sample Info: PG52T

Volume Injected (uL): 1.0

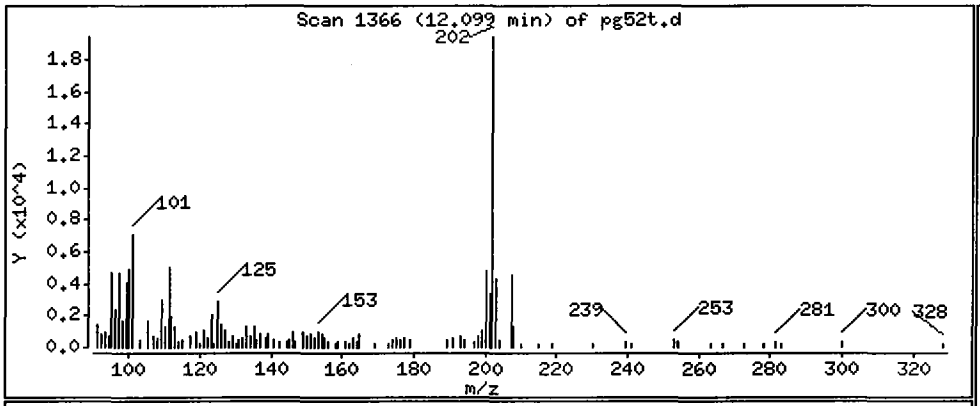
Operator: VTS

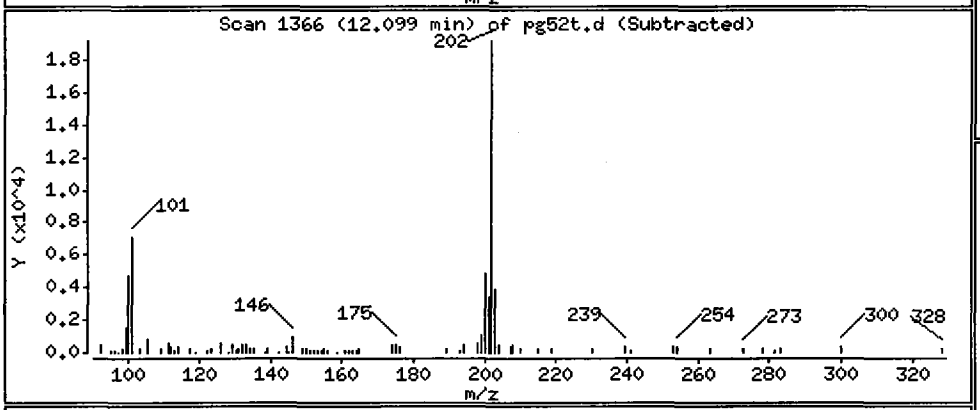
Column phase: ZB-5msi

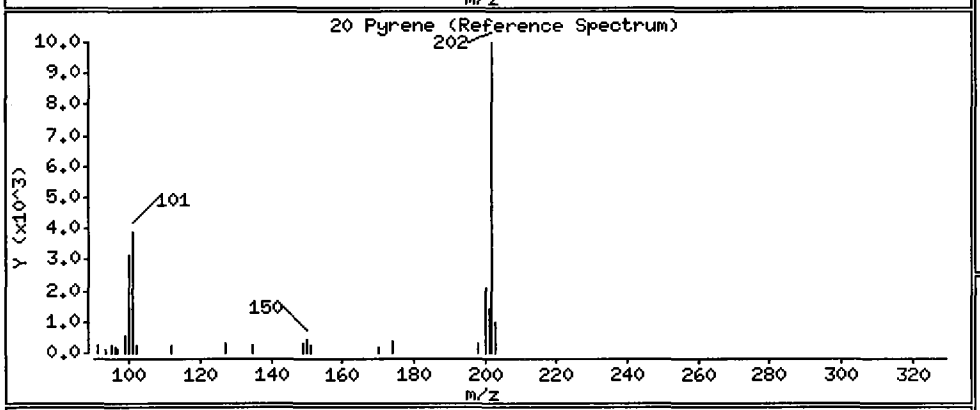
Column diameter: 0.25

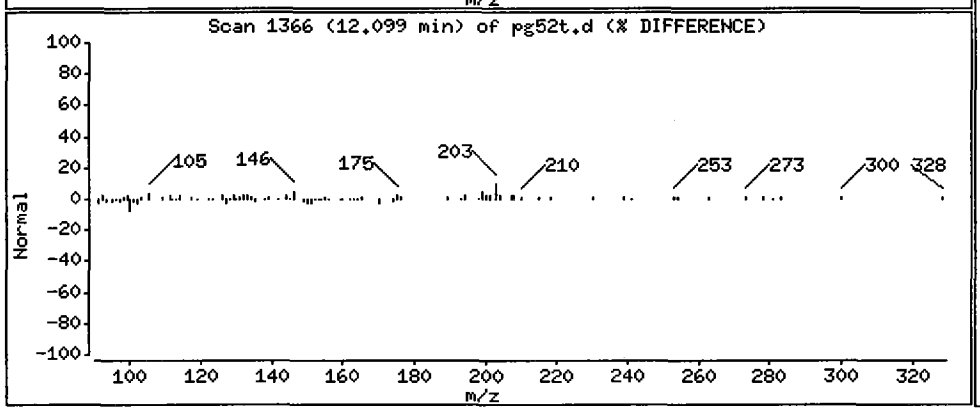
20 Pyrene

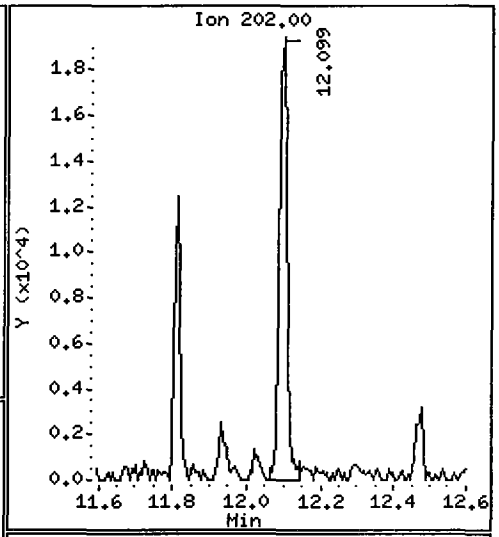
Concentration: 7.159 ug/kg

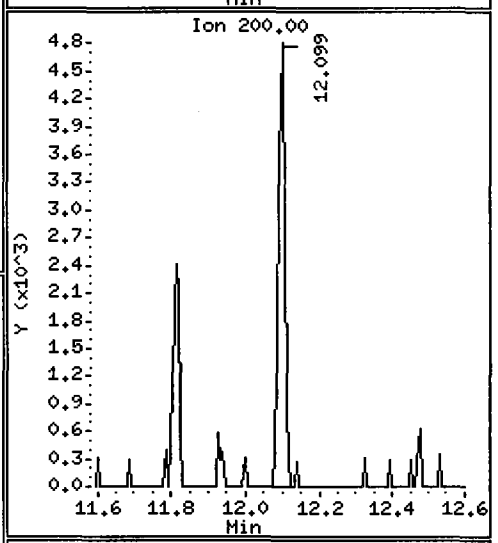


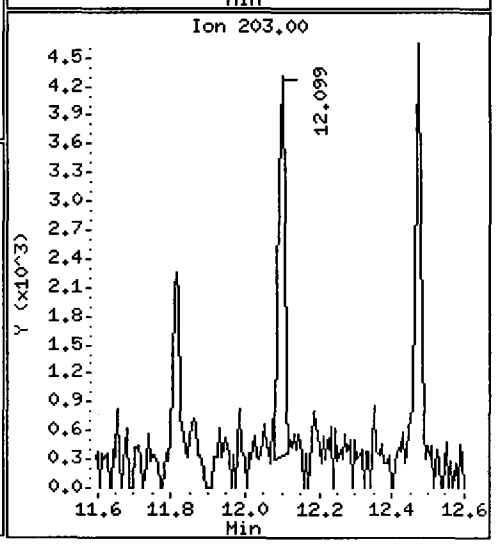












Data File: /chem3/nt1.i/20090717.b/pg52t.d

Date : 18-JUL-2009 01:26

Client ID: AHA-01-CEN(2.5-3.5)

Instrument: nt1.i

Sample Info: PG52T

Volume Injected (uL): 1.0

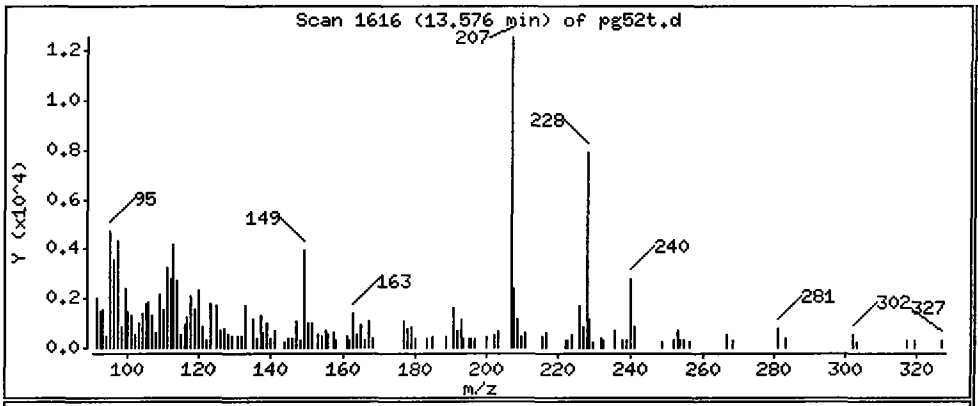
Operator: VTS

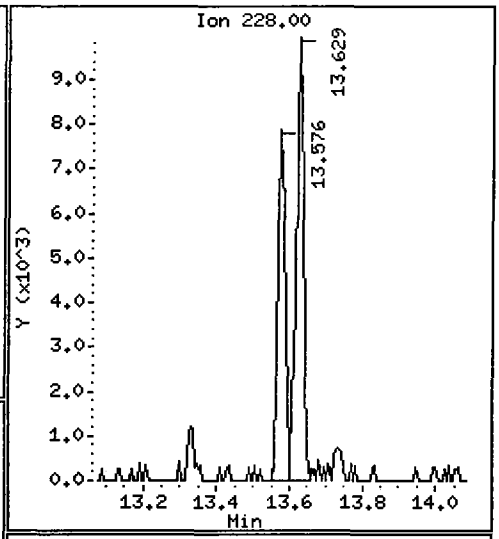
Column phase: ZB-5msi

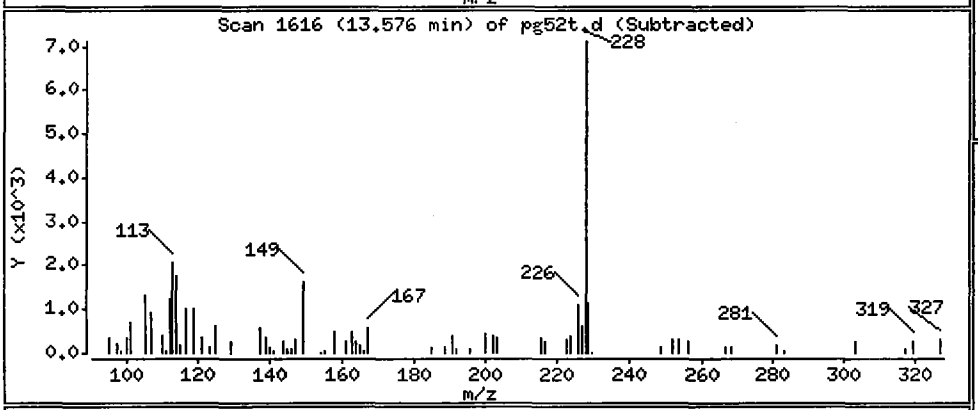
Column diameter: 0.25

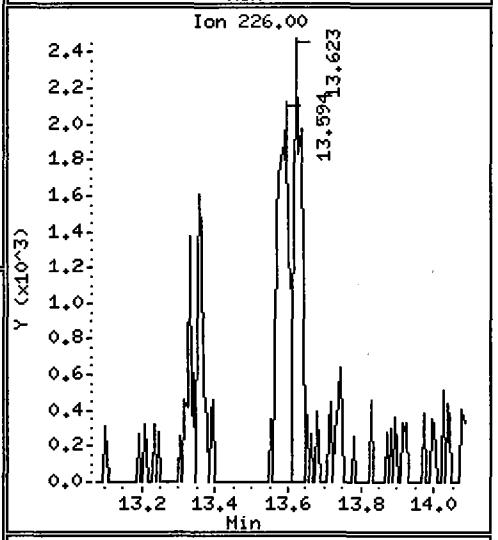
22 Benzo(a)anthracene

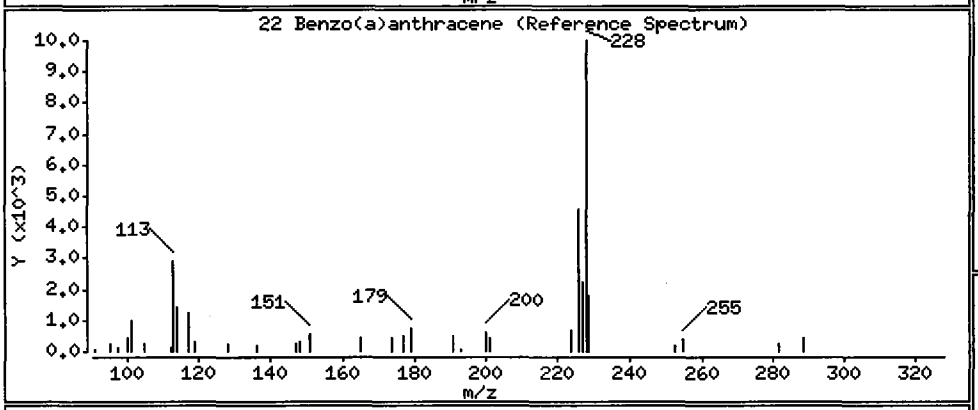
Concentration: 4.037 ug/kg

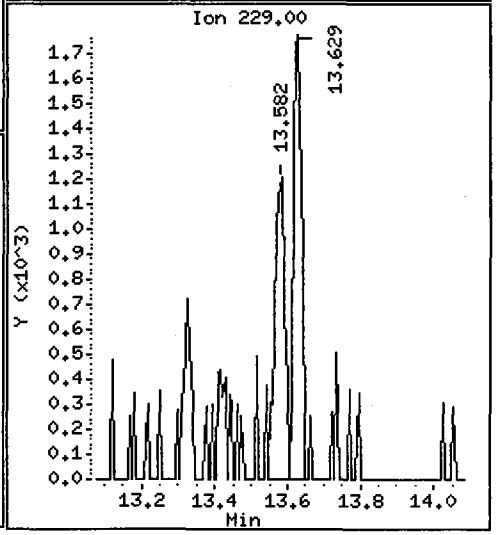


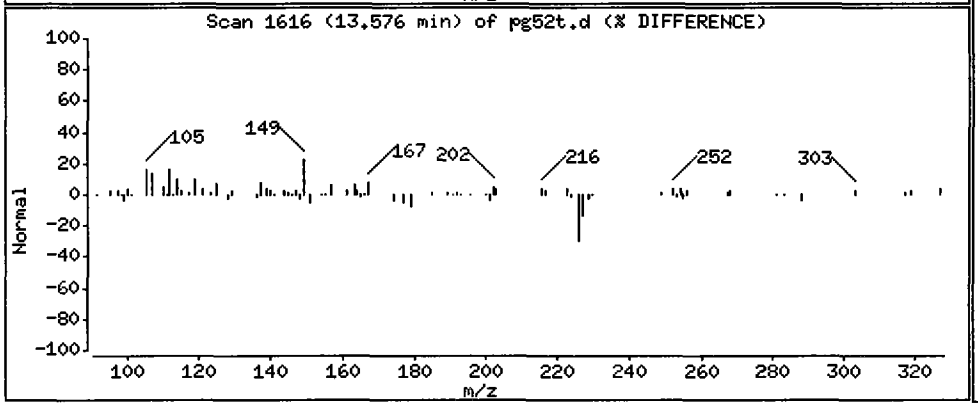












Data File: /chem3/nt1.i/20090717.b/pg52t.d

Date : 18-JUL-2009 01:26

Client ID: AHA-01-CEN(2.5-3.5)

Instrument: nt1.i

Sample Info: PG52T

Volume Injected (uL): 1.0

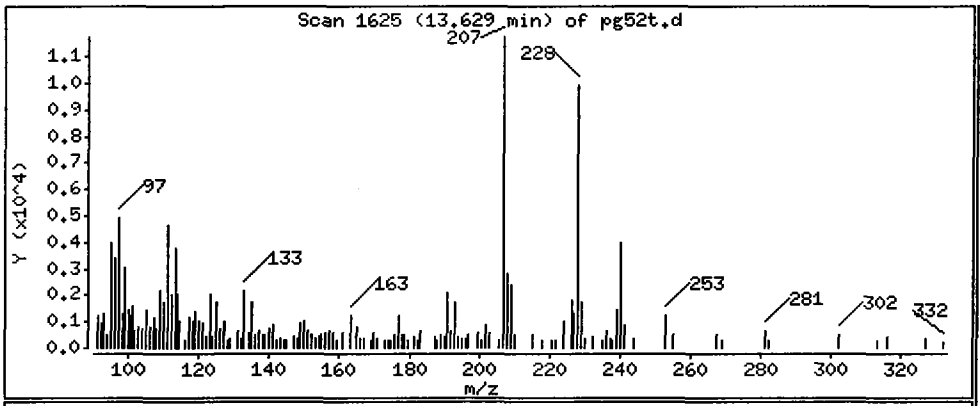
Operator: VTS

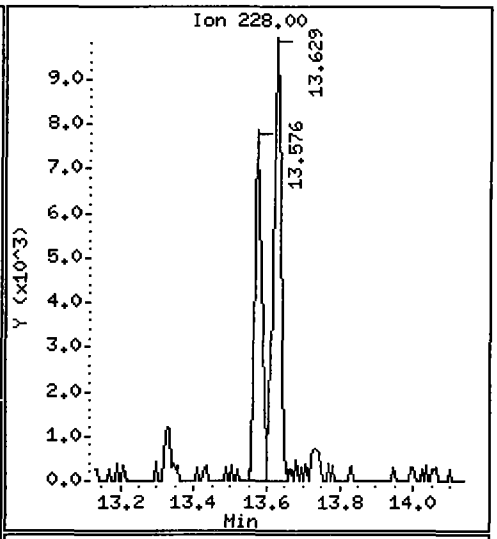
Column phase: ZB-5msi

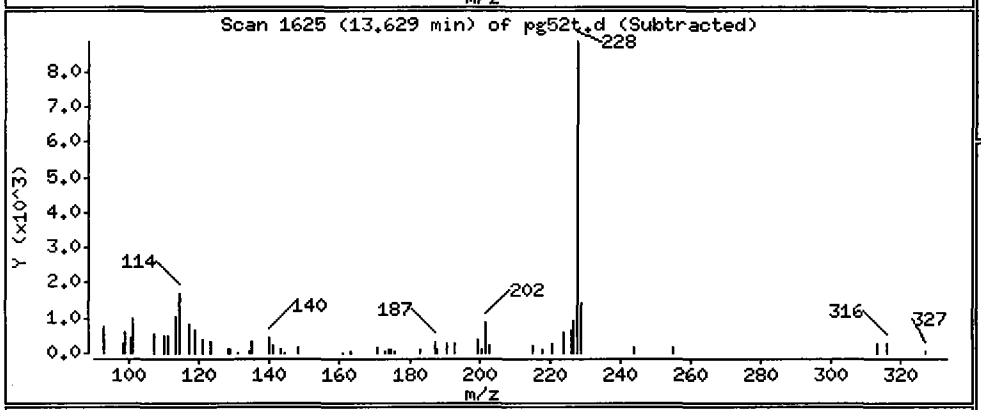
Column diameter: 0.25

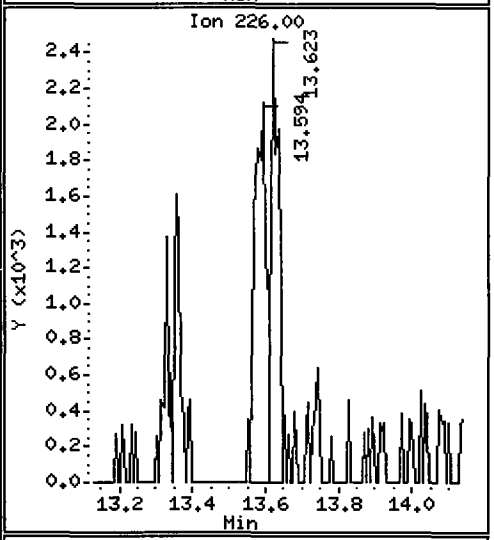
24 Chrysene

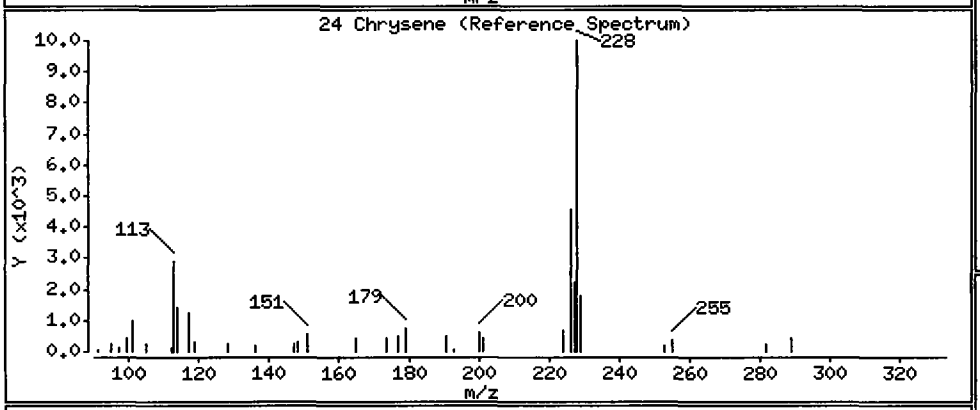
Concentration: 4.991 ug/kg

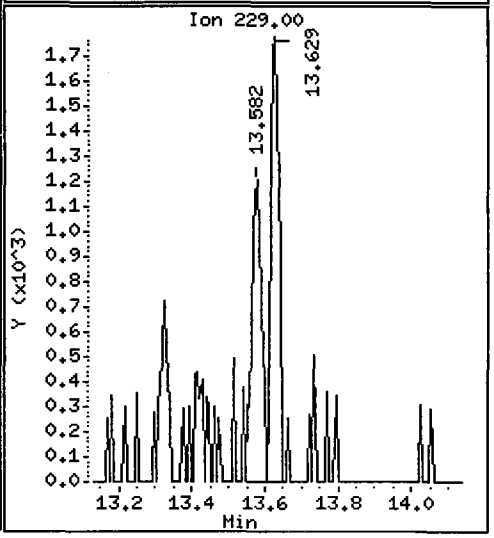


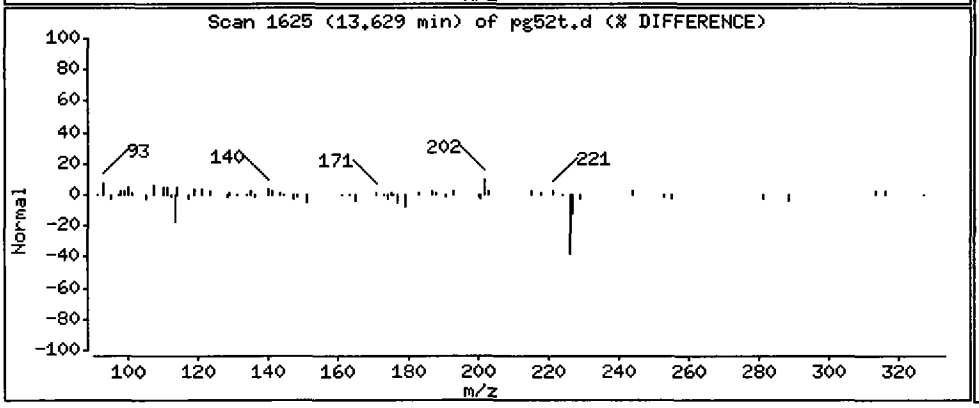












Data File: /chem3/nt1.i/20090717.b/pg52t.d

Date : 18-JUL-2009 01:26

Client ID: AHA-01-CEN(2.5-3.5)

Instrument: nt1.i

Sample Info: PG52T

Volume Injected (uL): 1.0

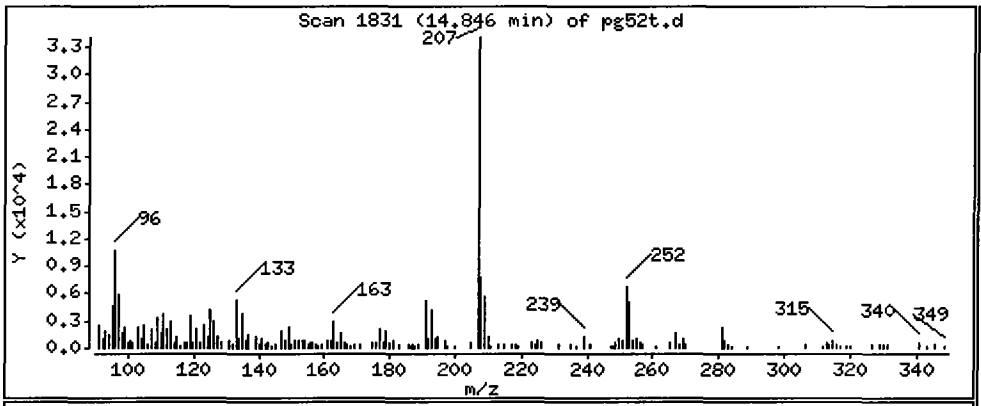
Operator: VTS

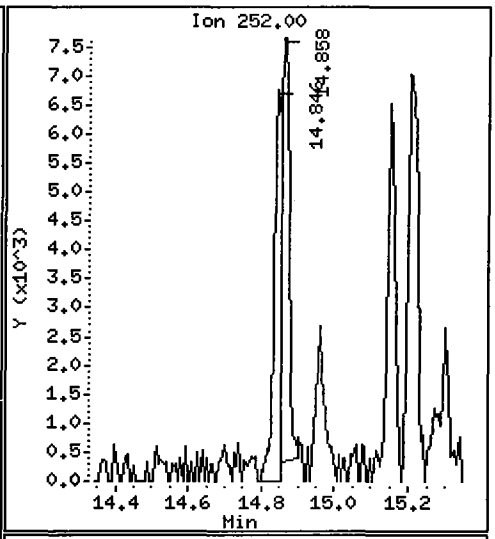
Column phase: ZB-5msi

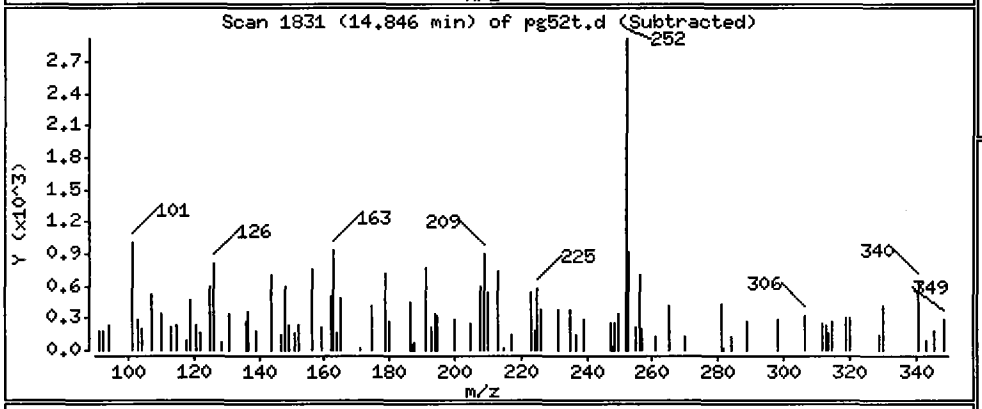
Column diameter: 0.25

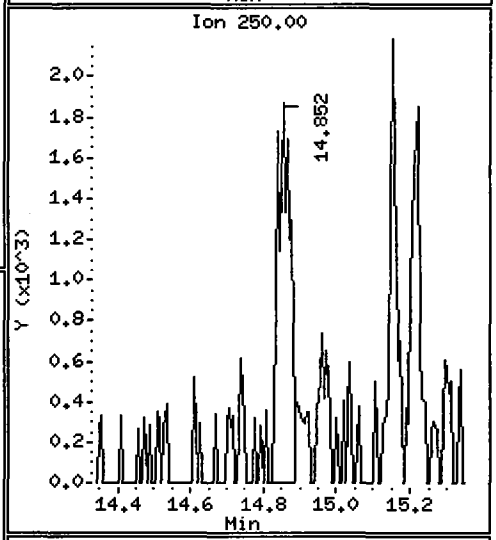
28 Benzo(b)fluoranthene

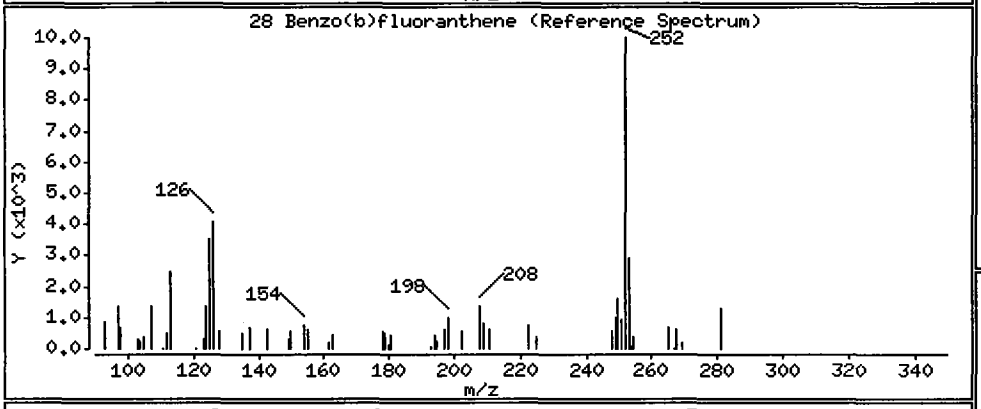
Concentration: 3.828 ug/kg

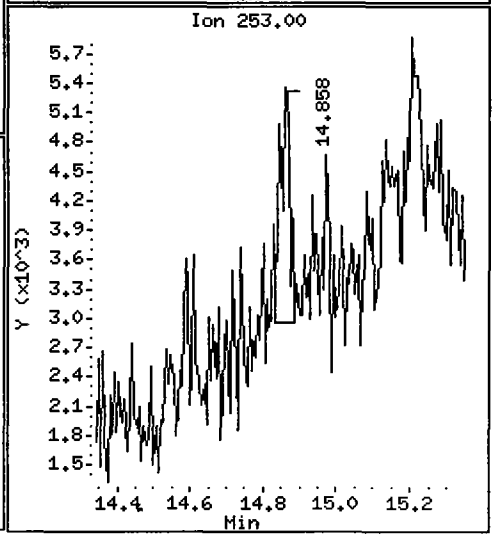


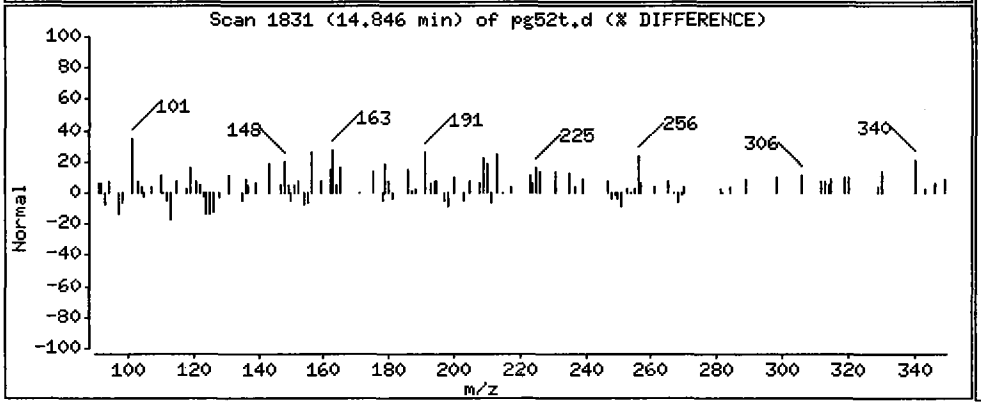












Data File: /chem3/nt1.i/20090717.b/pg52t.d

Date : 18-JUL-2009 01:26

Client ID: AHA-01-CEN(2.5-3.5)

Instrument: nt1.i

Sample Info: PG52T

Volume Injected (uL): 1.0

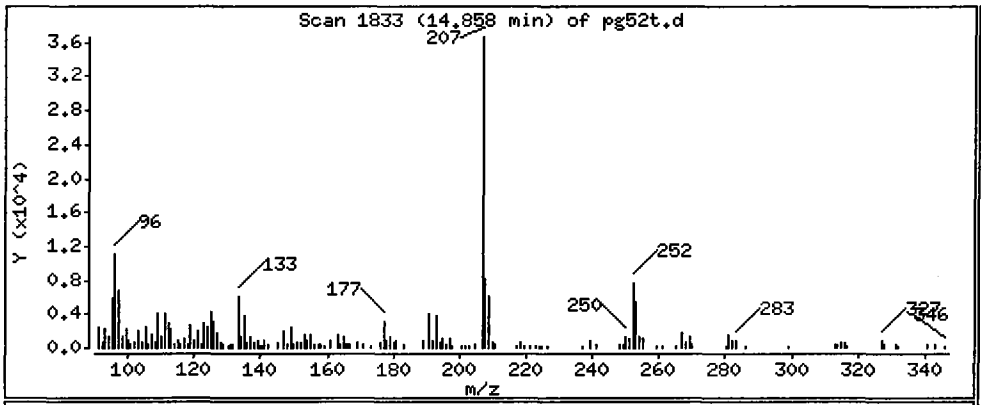
Operator: VTS

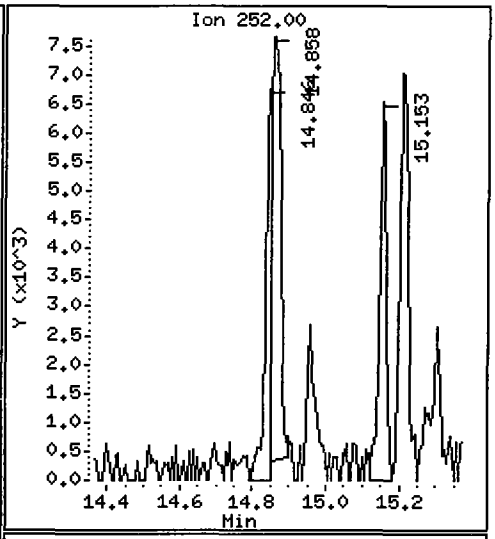
Column phase: ZB-5msi

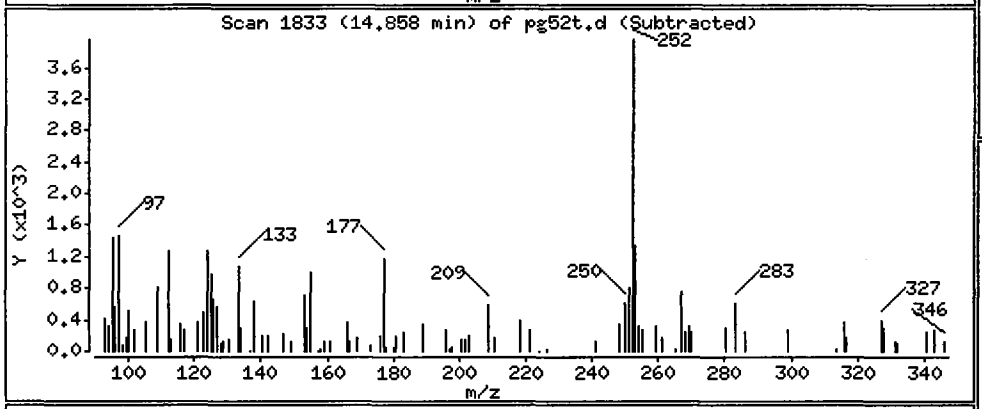
Column diameter: 0.25

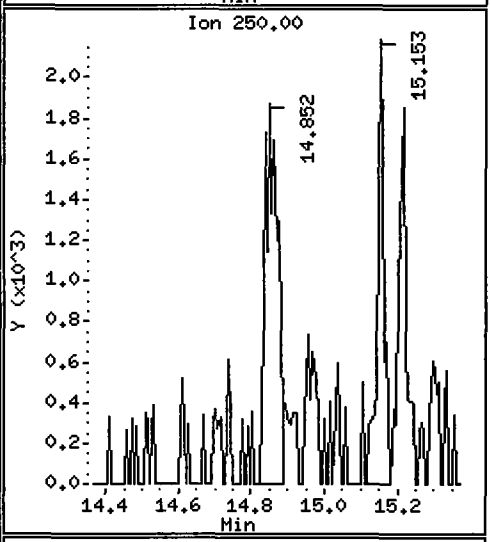
29 Benzo(k)fluoranthene

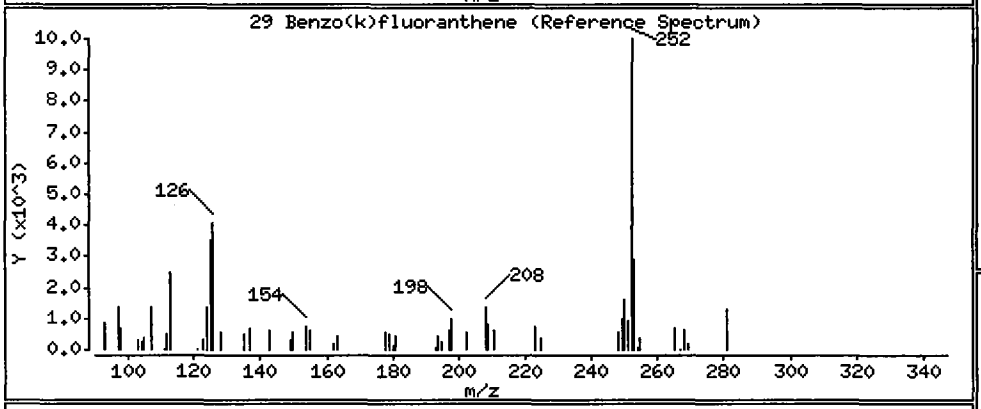
Concentration: 4.933 ug/kg

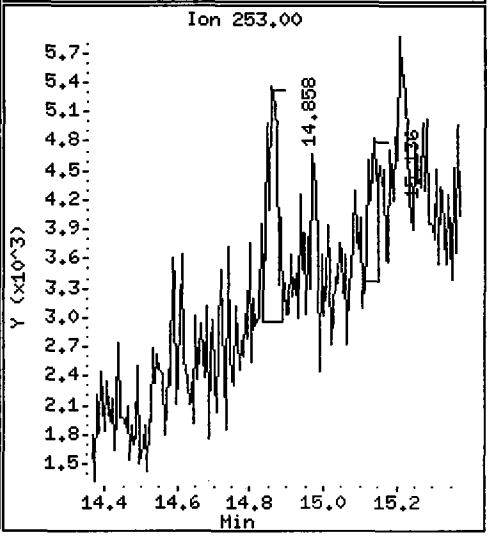


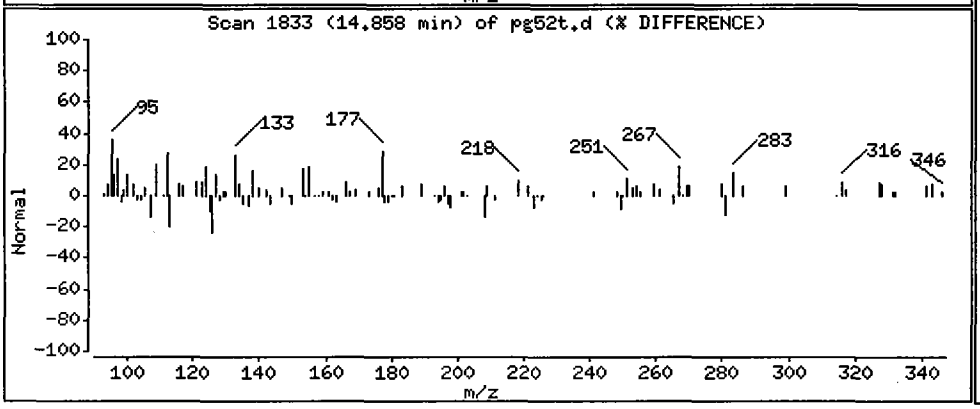












Data File: /chem3/nt1.i/20090717.b/pg52t.d

Date : 18-JUL-2009 01:26

Client ID: AHA-01-CEN(2.5-3.5)

Instrument: nt1.i

Sample Info: PG52T

Volume Injected (uL): 1.0

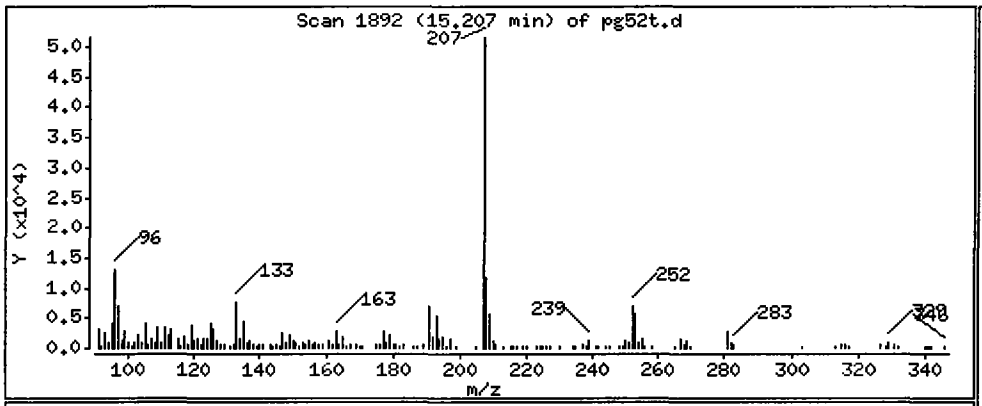
Operator: VTS

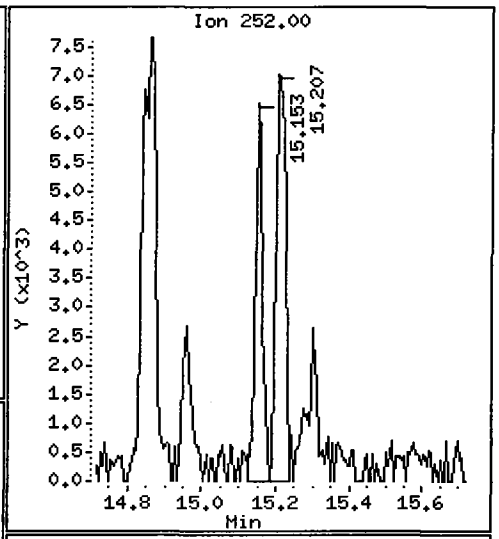
Column phase: ZB-5msi

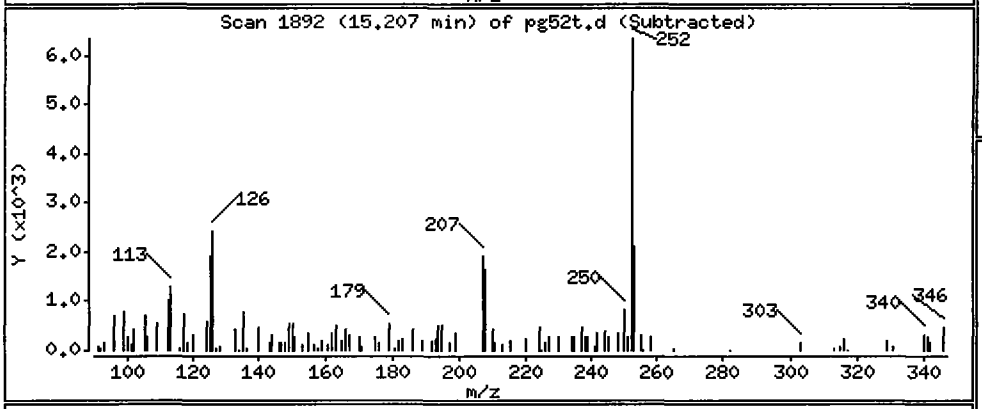
Column diameter: 0.25

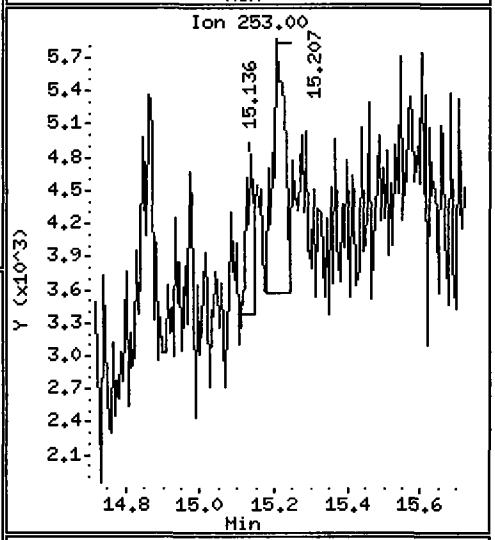
30 Benzo(a)pyrene

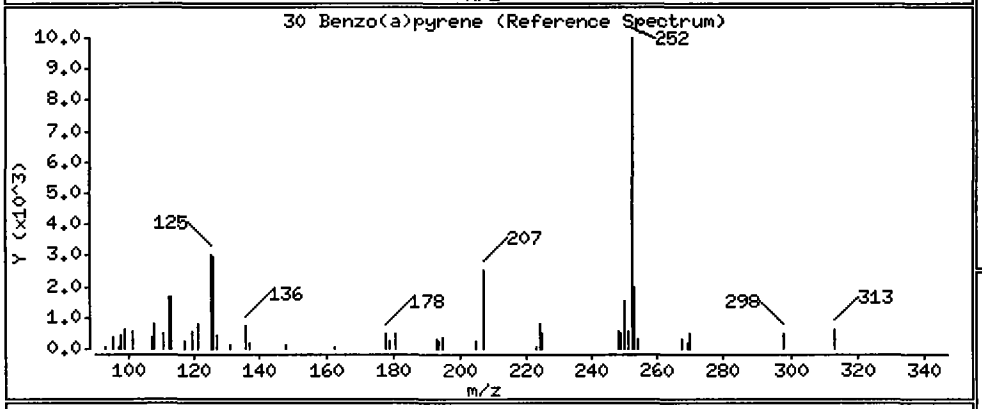
Concentration: 6.259 ug/kg

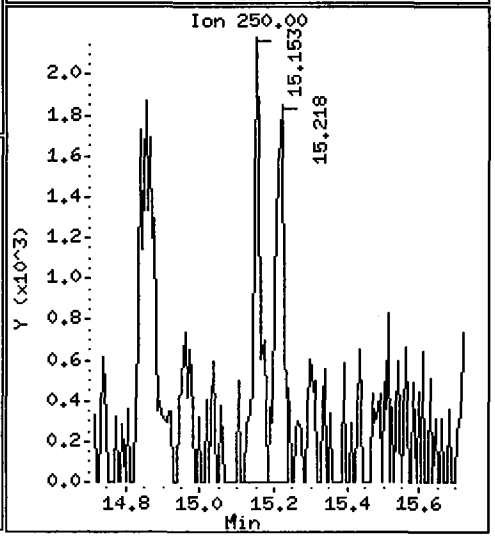


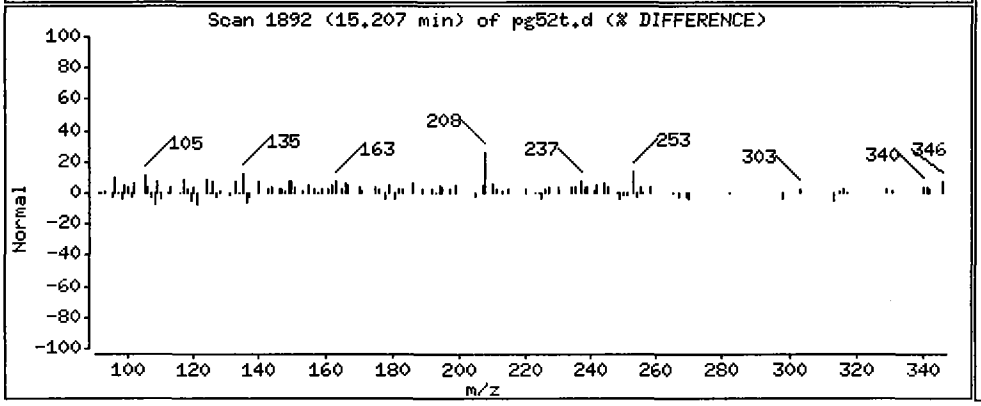












SIM Semivolatile Analysis
Standard Raw Data

prepared
for

Anchor QEA

Project: Eddon Boatyard

ARI JOB NO: PG52

prepared
by

Analytical Resources, Inc.

6B

SEMIVOLATILE 8270-D INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR QEA, LLC.

ARI Job No: PG52 Project: EDDON BOATYARD

Instrument ID: NT1 Calibration Date: 07/11/09

LAB FILE ID: RRF0.1=IC0711C RRF0.5=IC0711F RRF1 =IC0711E
RRF2.5=IC0711A RRF5 =IC0711D RRF10 =IC0711B

COMPOUND	RRF 0.1	RRF 0.5	RRF 1	RRF 2.5	RRF 5	RRF 10	RRF	%RSD /R^2
Naphthalene	0.882	0.927	0.930	0.887	0.853	0.796	0.879	5.7
2-Methylnaphthalene	0.449	0.519	0.515	0.494	0.490	0.463	0.488	5.7
Acenaphthylene	1.405	1.635	1.583	1.585	1.578	1.491	1.546	5.4
Acenaphthene	1.007	1.008	0.979	0.948	0.955	0.918	0.969	3.7
Dibenzofuran	1.406	1.448	1.422	1.409	1.429	1.314	1.405	3.3
Fluorene	0.928	1.005	1.004	1.038	1.050	0.978	1.000	4.4
Phenanthrene	0.920	1.025	0.914	0.928	0.909	0.869	0.928	5.6
Anthracene	0.893	0.987	0.884	0.942	0.938	0.904	0.925	4.2
Fluoranthene	0.754	0.891	0.864	0.901	0.864	0.852	0.854	6.1
Pyrene	1.313	1.429	1.313	1.352	1.341	1.288	1.339	3.7
Benzo(a)anthracene	0.941	0.965	0.911	0.961	0.938	0.927	0.940	2.2
Chrysene	0.984	1.002	1.012	0.997	0.980	0.931	0.984	2.9
Benzo(b)fluoranthene	1.098	1.157	0.929	0.945	0.943	0.930	1.000	10.0
Benzo(k)fluoranthene	0.987	1.024	1.052	1.145	1.172	1.058	1.073	6.6
Benzo(a)pyrene	0.821	0.844	0.786	0.861	0.870	0.866	0.841	3.9
Indeno(1,2,3-cd)pyrene	0.686	0.856	0.849	0.894	0.946	0.912	0.857	10.6
Dibenz(a,h)anthracene	0.472	0.597	0.621	0.698	0.736	0.764	0.648	16.6
Benzo(g,h,i)perylene	0.724	0.788	0.768	0.843	0.847	0.840	0.802	6.3
1-Methylnaphthalene	0.475	0.496	0.505	0.485	0.479	0.456	0.483	3.6
2-Methylnaphthalene-d10		0.473	0.449	0.442	0.429	0.415	0.442	5.0
Dibenz(a,h)anthrancene-d14		0.414	0.442	0.509	0.544	0.561	0.494	12.9

<- Outside QC limits: %RSD <20% or R^2 > 0.990

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 11-JUL-2009 12:30
End Cal Date : 11-JUL-2009 14:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt1.i/20090711.b/simpna.m
Cal Date : 13-Jul-2009 10:20 yev
Curve Type : Average

Calibration File Names:
Level 1: /chem3/nt1.i/20090711.b/ic0711c.d
Level 2: /chem3/nt1.i/20090711.b/ic0711f.d
Level 3: /chem3/nt1.i/20090711.b/ic0711e.d
Level 4: /chem3/nt1.i/20090711.b/ic0711a.d
Level 5: /chem3/nt1.i/20090711.b/ic0711d.d
Level 6: /chem3/nt1.i/20090711.b/ic0711b.d

Compound	0.10000 Level 1	0.50000 Level 2	1.000 Level 3	2.500 Level 4	5.000 Level 5	10.000 Level 6	___ RRF	% RSD
53 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 2,3,5-Trimethylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 2,6-Dimethylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Naphthalene	0.88237	0.92712	0.93020	0.88693	0.85264	0.79585	0.87918	5.714
4 2-Methylnaphthalene	0.44928	0.51912	0.51523	0.49433	0.48989	0.46261	0.48841	5.716
54 Total Fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 1-Methylnaphthalene	0.47474	0.49623	0.50543	0.48494	0.47869	0.45615	0.48270	3.575
6 Dimethylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 Acenaphthylene	1.40501	1.63513	1.58278	1.58470	1.57826	1.49094	1.54614	5.392
9 Acenaphthene	1.00731	1.00807	0.97947	0.94848	0.95487	0.91759	0.96930	3.681
10 Dibenzofuran	1.40558	1.44794	1.42164	1.40889	1.42875	1.31381	1.40444	3.342
11 Fluorene	0.92790	1.00535	1.00385	1.03777	1.05058	0.97797	1.00057	4.404
12 Diethylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Pentachlorophenol(ester)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 Phenanthrene	0.91972	1.02492	0.91455	0.92768	0.90892	0.86870	0.92741	5.607
17 Anthracene	0.89318	0.98684	0.88394	0.94255	0.93820	0.90413	0.92481	4.171
18 Di-n-butylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Fluoranthene	0.75434	0.89075	0.86437	0.90094	0.86365	0.85162	0.85428	6.126

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 11-JUL-2009 12:30
End Cal Date : 11-JUL-2009 14:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt1.i/20090711.b/simpna.m
Cal Date : 13-Jul-2009 10:20 yev
Curve Type : Average

Compound	0.10000 Level 1	0.50000 Level 2	1.000 Level 3	2.500 Level 4	5.000 Level 5	10.000 Level 6	RRF	% RSD
20 Pyrene	1.31284	1.42913	1.31308	1.35223	1.34087	1.28828	1.33941	3.692
21 Butylbenzylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 Benzo(a)anthracene	0.94073	0.96503	0.91135	0.96138	0.93807	0.92727	0.94064	2.162
24 Chrysene	0.98405	1.00174	1.01156	0.99732	0.98043	0.93085	0.98433	2.905
25 Bis-2-Ethylhexylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
26 Di-n-octylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
28 Benzo(b)fluoranthene	1.09768	1.15717	0.92931	0.94475	0.94313	0.93012	1.00036	10.038
29 Benzo(k)fluoranthene	0.98712	1.02428	1.05193	1.14466	1.17169	1.05788	1.07293	6.629
30 Benzo(a)pyrene	0.82149	0.84450	0.78596	0.86096	0.86955	0.86612	0.84143	3.857
33 Indeno(1,2,3-cd)pyrene	0.68625	0.85592	0.84863	0.89357	0.94631	0.91209	0.85713	10.639
34 Dibenz(a,h)anthracene	0.47190	0.59722	0.62115	0.69811	0.73556	0.76357	0.64792	16.601
35 Benzo(g,h,i)perylene	0.72395	0.78780	0.76816	0.84298	0.84685	0.84032	0.80168	6.261
$ 3 2-Methylnaphthalene-d10	+++++	0.47306	0.44941	0.44223	0.42933	0.41466	0.44174	4.969
$ 13 2,4,6-Tribromophenol(ester)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 32 Dibenz(a,h)anthrancene-d14	+++++	0.41377	0.44216	0.50893	0.54430	0.56074	0.49398	12.936

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Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20090711.b/ic0711a.d
Lab Smp Id: IC0711A
Inj Date : 11-JUL-2009 12:30
Operator : VTS Inst ID: nt1.i
Smp Info : IC0711A
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt1.i/20090711.b/simpna.m
Meth Date : 13-Jul-2009 10:20 yev Quant Type: ISTD
Cal Date : 11-JUL-2009 12:30 Cal File: ic0711a.d
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.527	6.529	(1.000)	463169	2.00000	
	2 Naphthalene	128	6.551	6.546	(1.004)	513497	2.50000	2.522
$	3 2-Methylnaphthalene-d10	152	7.272	7.273	(1.114)	256035	2.50000	2.503
	4 2-Methylnaphthalene	142	7.313	7.308	(1.120)	286197	2.50000	2.530
	5 1-Methylnaphthalene	142	7.437	7.438	(1.139)	280759	2.50000	2.512
	7 Acenaphthylene	152	8.388	8.384	(0.979)	422806	2.50000	2.562
*	8 Acenaphthene-d10	164	8.566	8.561	(1.000)	213444	2.00000	
	9 Acenaphthene	153	8.601	8.602	(1.004)	253059	2.50000	2.446
	10 Dibenzofuran	168	8.790	8.791	(1.026)	375900	2.50000	2.508
	11 Fluorene	166	9.210	9.211	(1.075)	276882	2.50000	2.593
*	15 Phenanthrene-d10	188	10.362	10.363	(1.000)	326462	2.00000	
	16 Phenanthrene	178	10.391	10.392	(1.003)	378564	2.50000	2.501(H)
	17 Anthracene	178	10.444	10.446	(1.008)	384632	2.50000	2.548
	19 Fluoranthene	202	11.874	11.875	(1.146)	367654	2.50000	2.637
	20 Pyrene	202	12.158	12.159	(0.890)	378690	2.50000	2.524
	22 Benzo(a)anthracene	228	13.635	13.636	(0.998)	269233	2.50000	2.555(H)
*	23 Chrysene-d12	240	13.658	13.660	(1.000)	224038	2.00000	
	24 Chrysene	228	13.688	13.689	(1.002)	279296	2.50000	2.533
	28 Benzo(b)fluoranthene	252	14.905	14.906	(0.972)	243545	2.50000	2.361(H)
	29 Benzo(k)fluoranthene	252	14.928	14.930	(0.973)	295079	2.50000	2.667
	30 Benzo(a)pyrene	252	15.277	15.278	(0.996)	221944	2.50000	2.558
*	31 Perylene-d12	264	15.342	15.343	(1.000)	206230	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	16.736	16.738	(1.091)	230352	2.50000	2.606(M)
$	32 Dibenz(a,h)anthrancene-d14	292	16.683	16.684	(1.087)	131196	2.50000	2.576
	34 Dibenz(a,h)anthracene	278	16.730	16.732	(1.090)	179964	2.50000	2.694(M)
	35 Benzo(g,h,i)perylene	276	17.138	17.139	(1.117)	217309	2.50000	2.629

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic0711a.d
Lab Smp Id: IC0711A
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20090711.b/simpna.m
Misc Info:

Calibration Date: 11-JUL-2009
Calibration Time: 15:03

Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	463169	231584	926338	463169	0.00
8 Acenaphthene-d10	213444	106722	426888	213444	0.00
15 Phenanthrene-d10	326462	163231	652924	326462	0.00
23 Chrysene-d12	224038	112019	448076	224038	0.00
31 Perylene-d12	206230	103115	412460	206230	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.53	6.03	7.03	6.53	-0.02
8 Acenaphthene-d10	8.56	8.06	9.06	8.57	0.05
15 Phenanthrene-d10	10.36	9.86	10.86	10.36	-0.01
23 Chrysene-d12	13.66	13.16	14.16	13.66	-0.01
31 Perylene-d12	15.34	14.84	15.84	15.34	-0.01

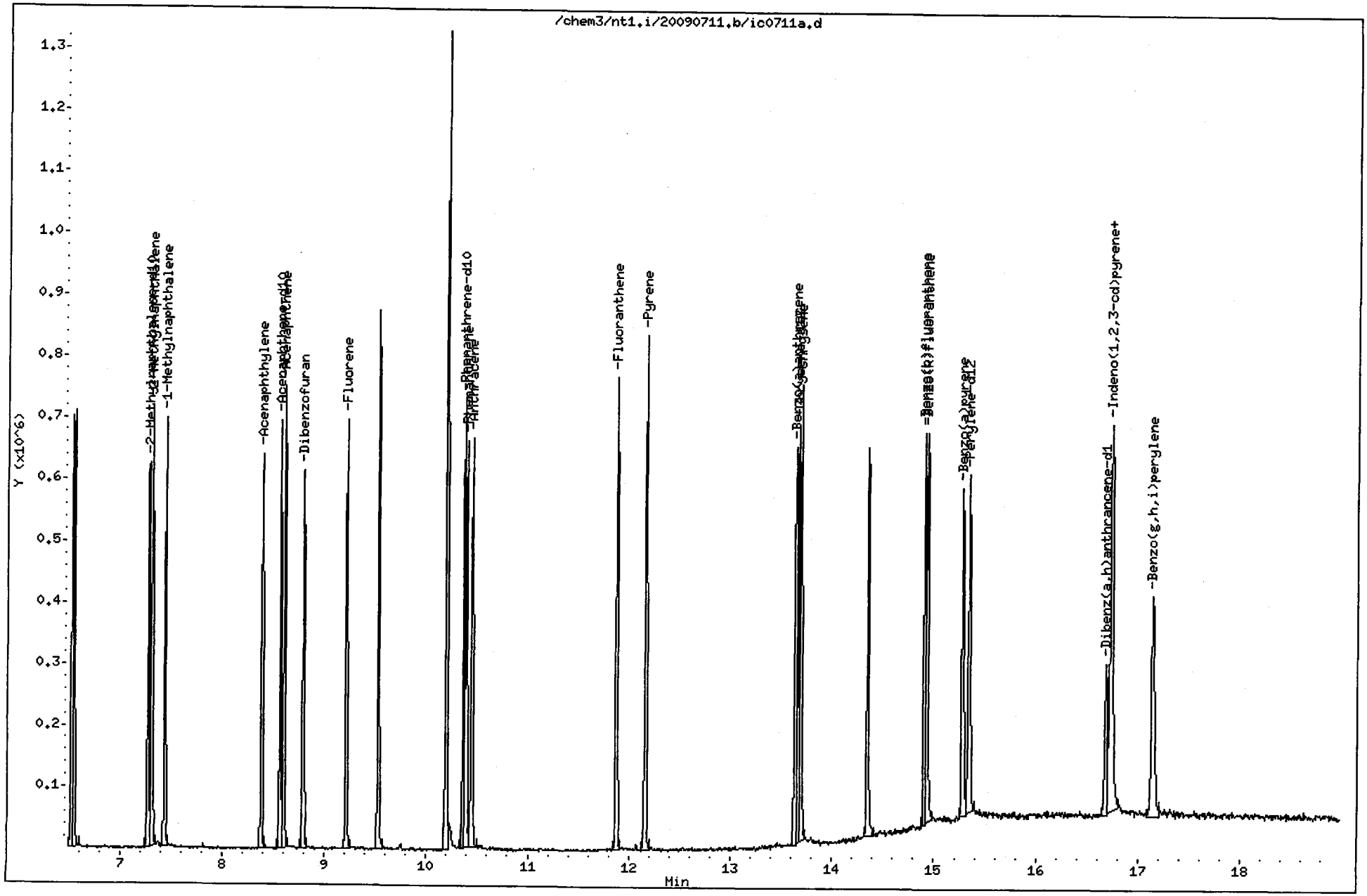
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20090711.b/ic0711a.d
Date : 11-JUL-2009 12:30
Client ID:
Sample Info: IC0711A

Column phase: ZB-5msi

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25



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Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20090711.b/ic0711b.d
Lab Smp Id: IC0711B
Inj Date : 11-JUL-2009 12:56
Operator : VTS Inst ID: nt1.i
Smp Info : IC0711B
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt1.i/20090711.b/simpna.m
Meth Date : 13-Jul-2009 10:20 yev Quant Type: ISTD
Cal Date : 11-JUL-2009 12:56 Cal File: ic0711b.d
Als bottle: 3 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.525	6.529	(1.000)	464574	2.00000	
	2 Naphthalene	128	6.549	6.546	(1.004)	1848663	10.0000	9.052
$	3 2-Methylnaphthalene-d10	152	7.276	7.273	(1.115)	963208	10.0000	9.387
	4 2-Methylnaphthalene	142	7.311	7.308	(1.120)	1074592	10.0000	9.472
	5 1-Methylnaphthalene	142	7.441	7.438	(1.140)	1059583	10.0000	9.450
	7 Acenaphthylene	152	8.386	8.384	(0.979)	1616990	10.0000	9.643
*	8 Acenaphthene-d10	164	8.564	8.561	(1.000)	216909	2.00000	
	9 Acenaphthene	153	8.605	8.602	(1.005)	995173	10.0000	9.467
	10 Dibenzofuran	168	8.794	8.791	(1.027)	1424885	10.0000	9.355
	11 Fluorene	166	9.213	9.211	(1.076)	1060656	10.0000	9.774
*	15 Phenanthrene-d10	188	10.365	10.363	(1.000)	338508	2.00000	
	16 Phenanthrene	178	10.395	10.392	(1.003)	1470305	10.0000	9.367(H)
	17 Anthracene	178	10.448	10.446	(1.008)	1530284	10.0000	9.776
	19 Fluoranthene	202	11.878	11.875	(1.146)	1441406	10.0000	9.969
	20 Pyrene	202	12.162	12.159	(0.890)	1462658	10.0000	9.618
	22 Benzo(a)anthracene	228	13.639	13.636	(0.998)	1052778	10.0000	9.858(H)
*	23 Chrysene-d12	240	13.662	13.660	(1.000)	227071	2.00000	
	24 Chrysene	228	13.692	13.689	(1.002)	1056850	10.0000	9.457
	28 Benzo(b)fluoranthene	252	14.909	14.906	(0.972)	979045	10.0000	9.298(H)
	29 Benzo(k)fluoranthene	252	14.932	14.930	(0.973)	1113529	10.0000	9.860
	30 Benzo(a)pyrene	252	15.281	15.278	(0.996)	911683	10.0000	10.29
*	31 Perylene-d12	264	15.340	15.343	(1.000)	210521	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	16.746	16.738	(1.092)	960074	10.0000	10.64(M)
$	32 Dibenz(a,h)anthrancene-d14	292	16.693	16.684	(1.088)	590239	10.0000	11.35
	34 Dibenz(a,h)anthracene	278	16.740	16.732	(1.091)	803741	10.0000	11.79
	35 Benzo(g,h,i)perylene	276	17.148	17.139	(1.118)	884525	10.0000	10.48

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic0711b.d
Lab Smp Id: IC0711B
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20090711.b/simpna.m
Misc Info:

Calibration Date: 11-JUL-2009
Calibration Time: 15:03

Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	463169	231584	926338	464574	0.30
8 Acenaphthene-d10	213444	106722	426888	216909	1.62
15 Phenanthrene-d10	326462	163231	652924	338508	3.69
23 Chrysene-d12	224038	112019	448076	227071	1.35
31 Perylene-d12	206230	103115	412460	210521	2.08

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.53	6.03	7.03	6.53	-0.05
8 Acenaphthene-d10	8.56	8.06	9.06	8.56	0.03
15 Phenanthrene-d10	10.36	9.86	10.86	10.37	0.02
23 Chrysene-d12	13.66	13.16	14.16	13.66	0.02
31 Perylene-d12	15.34	14.84	15.84	15.34	-0.02

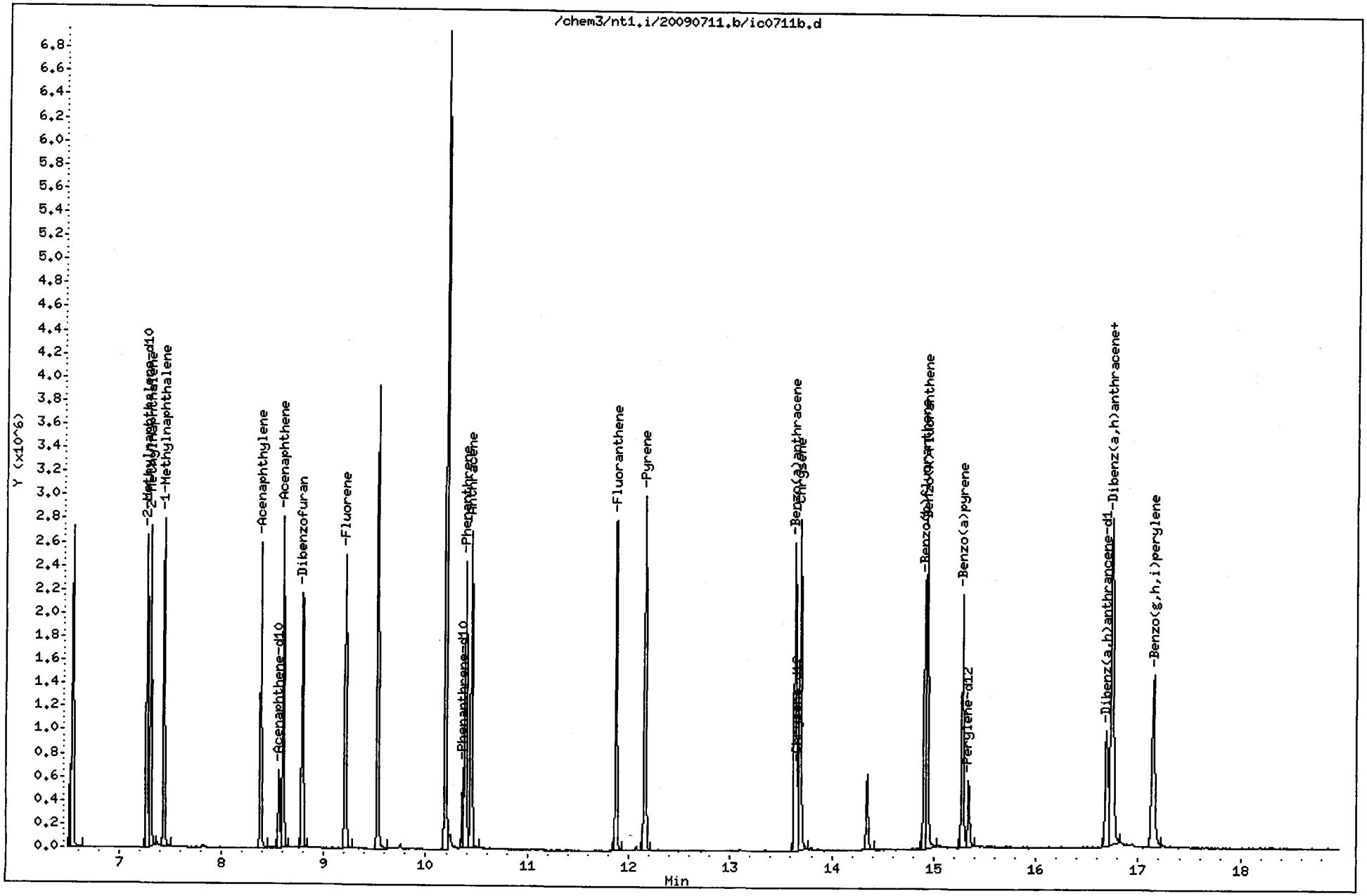
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20090711.b/ic0711b.d
Date : 11-JUL-2009 12:56
Client ID:
Sample Info: IC0711B

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



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Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20090711.b/ic0711c.d
Lab Smp Id: IC0711C
Inj Date : 11-JUL-2009 13:21
Operator : VTS Inst ID: nt1.i
Smp Info : IC0711C
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt1.i/20090711.b/simpna.m
Meth Date : 13-Jul-2009 10:20 yev Quant Type: ISTD
Cal Date : 11-JUL-2009 13:21 Cal File: ic0711c.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.524	6.529	(1.000)	470620	2.00000	
	2 Naphthalene	128	6.548	6.546	(1.004)	20763	0.10000	0.1004
$	3 2-Methylnaphthalene-d10	152	7.275	7.273	(1.115)	10670	0.10000	0.1026
	4 2-Methylnaphthalene	142	7.310	7.308	(1.120)	10572	0.10000	0.09199
	5 1-Methylnaphthalene	142	7.440	7.438	(1.140)	11171	0.10000	0.09835
	7 Acenaphthylene	152	8.385	8.384	(0.979)	14633	0.10000	0.09087
*	8 Acenaphthene-d10	164	8.563	8.561	(1.000)	208298	2.00000	
	9 Acenaphthene	153	8.604	8.602	(1.005)	10491	0.10000	0.1039
	10 Dibenzofuran	168	8.793	8.791	(1.027)	14639	0.10000	0.1001
	11 Fluorene	166	9.207	9.211	(1.075)	9664	0.10000	0.09274
*	15 Phenanthrene-d10	188	10.359	10.363	(1.000)	326405	2.00000	
	16 Phenanthrene	178	10.388	10.392	(1.003)	15010	0.10000	0.09917(H)
	17 Anthracene	178	10.447	10.446	(1.009)	14577	0.10000	0.09658
	19 Fluoranthene	202	11.877	11.875	(1.147)	12311	0.10000	0.08830
	20 Pyrene	202	12.155	12.159	(0.890)	14031	0.10000	0.09802
	22 Benzo(a)anthracene	228	13.638	13.636	(0.999)	10054	0.10000	0.1000(H)
*	23 Chrysene-d12	240	13.655	13.660	(1.000)	213750	2.00000	
	24 Chrysene	228	13.691	13.689	(1.003)	10517	0.10000	0.09997(M)
	28 Benzo(b)fluoranthene	252	14.908	14.906	(0.972)	10365	0.10000	0.1097(H)
	29 Benzo(k)fluoranthene	252	14.931	14.930	(0.973)	9321	0.10000	0.09200
	30 Benzo(a)pyrene	252	15.280	15.278	(0.996)	7757	0.10000	0.09763
*	31 Perylene-d12	264	15.339	15.343	(1.000)	188853	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	16.739	16.738	(1.091)	6480	0.10000	0.08006
$	32 Dibenz(a,h)anthrancene-d14	292	16.680	16.684	(1.087)	2740	0.10000	0.05874
	34 Dibenz(a,h)anthracene	278	16.727	16.732	(1.091)	4456	0.10000	0.07283
	35 Benzo(g,h,i)perylene	276	17.135	17.139	(1.117)	6836	0.10000	0.09030

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic0711c.d
Lab Smp Id: IC0711C
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20090711.b/simpna.m
Misc Info:

Calibration Date: 11-JUL-2009
Calibration Time: 15:03

Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	463169	231584	926338	470620	1.61
8 Acenaphthene-d10	213444	106722	426888	208298	-2.41
15 Phenanthrene-d10	326462	163231	652924	326405	-0.02
23 Chrysene-d12	224038	112019	448076	213750	-4.59
31 Perylene-d12	206230	103115	412460	188853	-8.43

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.53	6.03	7.03	6.52	-0.06
8 Acenaphthene-d10	8.56	8.06	9.06	8.56	0.02
15 Phenanthrene-d10	10.36	9.86	10.86	10.36	-0.04
23 Chrysene-d12	13.66	13.16	14.16	13.66	-0.03
31 Perylene-d12	15.34	14.84	15.84	15.34	-0.03

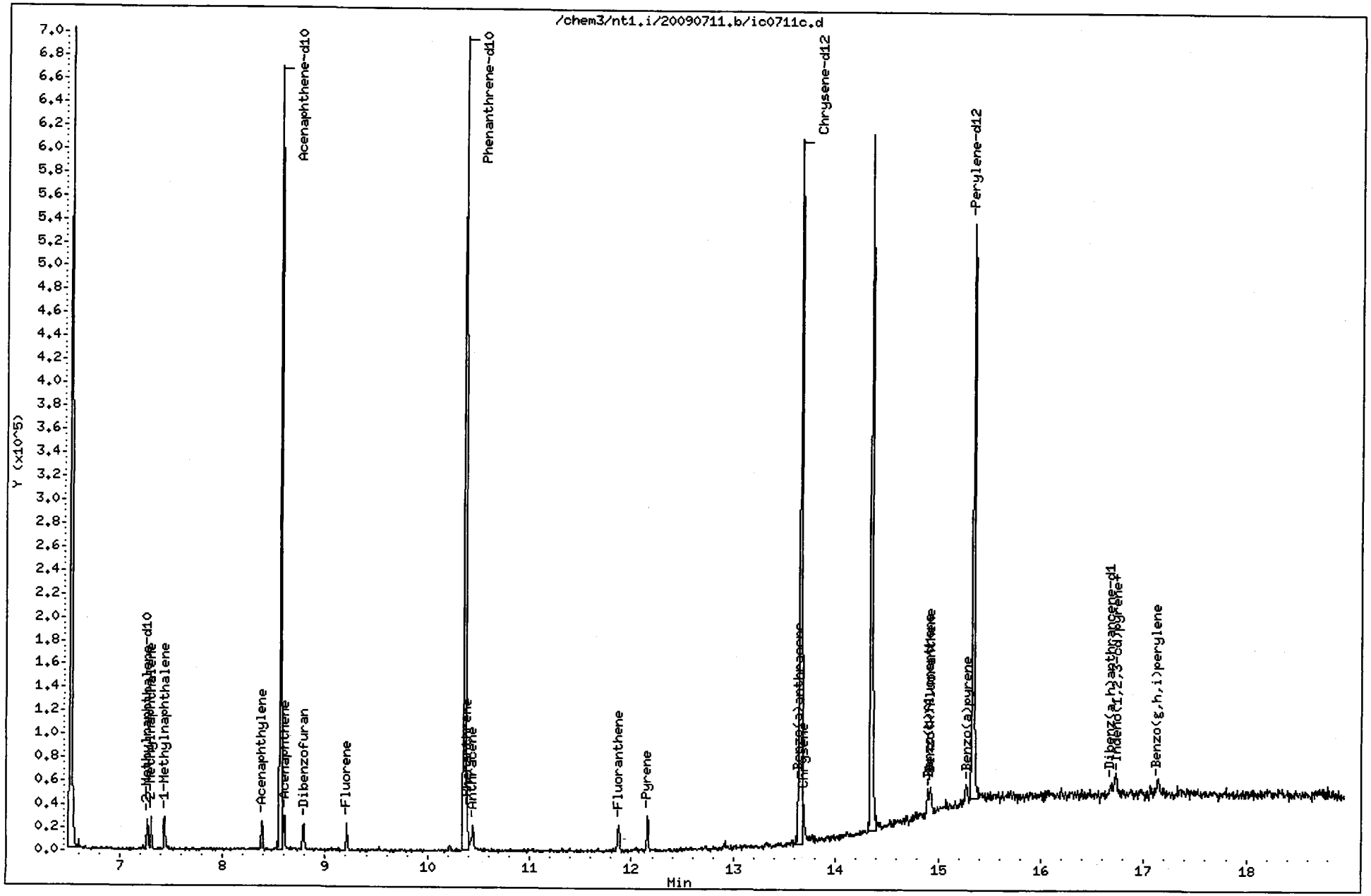
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20090711.b/ic0711c.d
Date : 11-JUL-2009 13:21
Client ID:
Sample Info: IC0711C

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



YZ 7/13/09

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20090711.b/ic0711d.d
Lab Smp Id: IC0711D
Inj Date : 11-JUL-2009 13:47
Operator : VTS Inst ID: nt1.i
Smp Info : IC0711D
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt1.i/20090711.b/simpna.m
Meth Date : 13-Jul-2009 10:20 yev Quant Type: ISTD
Cal Date : 11-JUL-2009 13:47 Cal File: ic0711d.d
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.527	6.529	(1.000)	468820	2.00000	
	2 Naphthalene	128	6.551	6.546	(1.004)	999336	5.00000	4.849
$	3 2-Methylnaphthalene-d10	152	7.272	7.273	(1.114)	503199	5.00000	4.860
	4 2-Methylnaphthalene	142	7.313	7.308	(1.120)	574173	5.00000	5.015
	5 1-Methylnaphthalene	142	7.437	7.438	(1.139)	561043	5.00000	4.958
	7 Acenaphthylene	152	8.383	8.384	(0.979)	845134	5.00000	5.104
*	8 Acenaphthene-d10	164	8.566	8.561	(1.000)	214194	2.00000	
	9 Acenaphthene	153	8.601	8.602	(1.004)	511316	5.00000	4.926
	10 Dibenzofuran	168	8.790	8.791	(1.026)	765076	5.00000	5.087
	11 Fluorene	166	9.210	9.211	(1.075)	562572	5.00000	5.250
*	15 Phenanthrene-d10	188	10.362	10.363	(1.000)	340205	2.00000	
	16 Phenanthrene	178	10.391	10.392	(1.003)	773046	5.00000	4.900(H)
	17 Anthracene	178	10.444	10.446	(1.008)	797949	5.00000	5.072
	19 Fluoranthene	202	11.874	11.875	(1.146)	734546	5.00000	5.055
	20 Pyrene	202	12.158	12.159	(0.890)	762503	5.00000	5.005
	22 Benzo(a)anthracene	228	13.635	13.636	(0.998)	533445	5.00000	4.986(H)
*	23 Chrysene-d12	240	13.658	13.660	(1.000)	227465	2.00000	
	24 Chrysene	228	13.688	13.689	(1.002)	557536	5.00000	4.980
	28 Benzo(b)fluoranthene	252	14.905	14.906	(0.972)	491110	5.00000	4.714(H)
	29 Benzo(k)fluoranthene	252	14.929	14.930	(0.973)	610129	5.00000	5.460
	30 Benzo(a)pyrene	252	15.277	15.278	(0.996)	452798	5.00000	5.167
*	31 Perylene-d12	264	15.342	15.343	(1.000)	208290	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	16.742	16.738	(1.091)	492766	5.00000	5.520
$	32 Dibenz(a,h)anthrancene-d14	292	16.683	16.684	(1.087)	283431	5.00000	5.509
	34 Dibenz(a,h)anthracene	278	16.731	16.732	(1.090)	383023	5.00000	5.676
	35 Benzo(g,h,i)perylene	276	17.144	17.139	(1.117)	440974	5.00000	5.282

QC Flag Legend

H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic0711d.d
Lab Smp Id: IC0711D
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20090711.b/simpna.m
Misc Info:

Calibration Date: 11-JUL-2009
Calibration Time: 15:03

Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	463169	231584	926338	468820	1.22
8 Acenaphthene-d10	213444	106722	426888	214194	0.35
15 Phenanthrene-d10	326462	163231	652924	340205	4.21
23 Chrysene-d12	224038	112019	448076	227465	1.53
31 Perylene-d12	206230	103115	412460	208290	1.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.53	6.03	7.03	6.53	-0.02
8 Acenaphthene-d10	8.56	8.06	9.06	8.57	0.06
15 Phenanthrene-d10	10.36	9.86	10.86	10.36	-0.01
23 Chrysene-d12	13.66	13.16	14.16	13.66	-0.01
31 Perylene-d12	15.34	14.84	15.84	15.34	-0.01

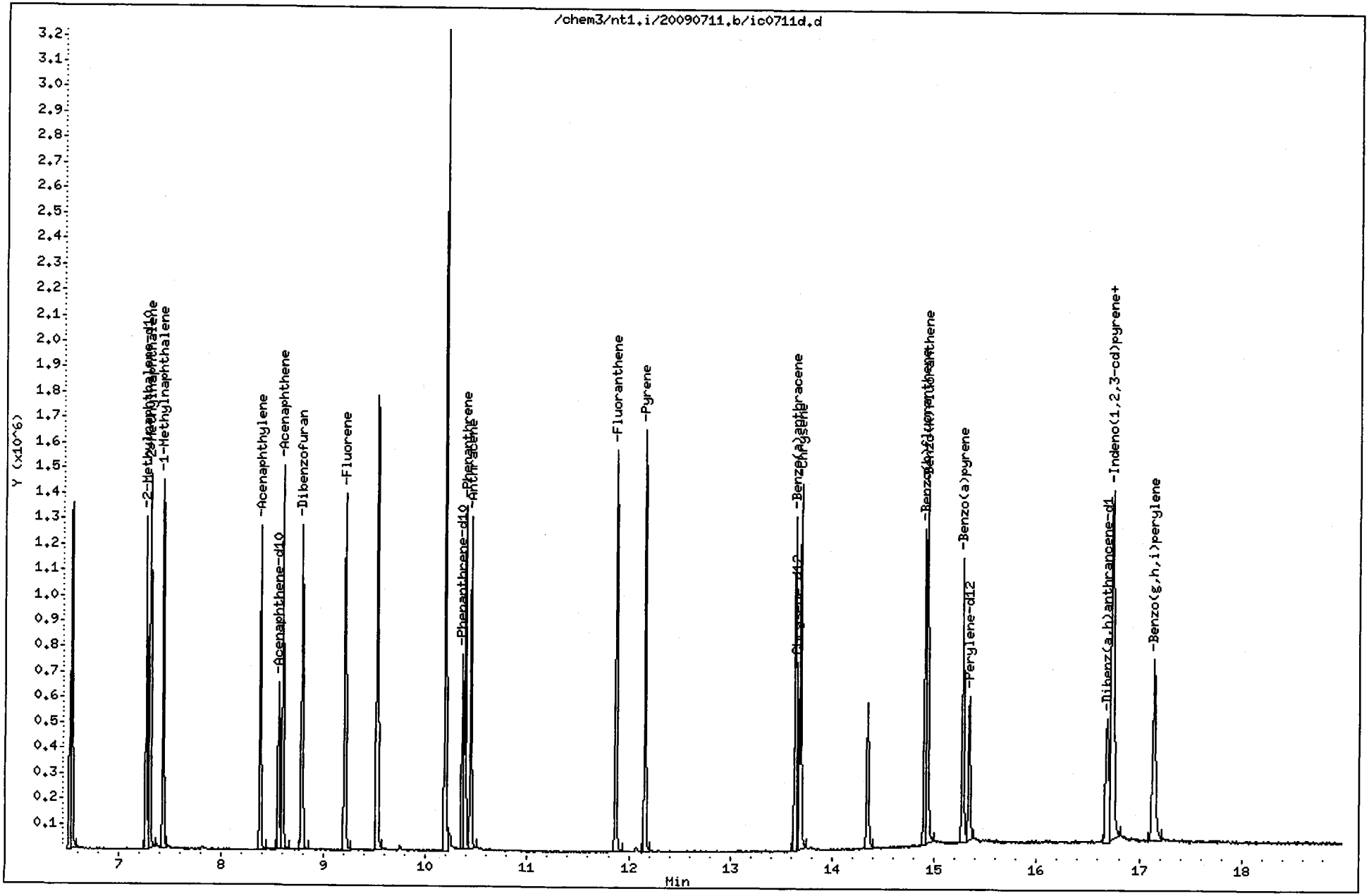
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20090711.b/ic0711d.d
Date : 11-JUL-2009 13:47
Client ID:
Sample Info: IC0711D

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



YZ 7/13/09

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20090711.b/ic0711e.d
Lab Smp Id: IC0711E
Inj Date : 11-JUL-2009 14:12
Operator : VTS Inst ID: nt1.i
Smp Info : IC0711E
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt1.i/20090711.b/simpna.m
Meth Date : 13-Jul-2009 10:20 yev Quant Type: ISTD
Cal Date : 11-JUL-2009 14:12 Cal File: ic0711e.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.527	6.529	(1.000)	459743	2.00000	
	2 Naphthalene	128	6.551	6.546	(1.004)	213826	1.00000	1.058
$	3 2-Methylnaphthalene-d10	152	7.272	7.273	(1.114)	103306	1.00000	1.017
	4 2-Methylnaphthalene	142	7.313	7.308	(1.120)	118437	1.00000	1.055
	5 1-Methylnaphthalene	142	7.437	7.438	(1.139)	116185	1.00000	1.047
	7 Acenaphthylene	152	8.382	8.384	(0.979)	167903	1.00000	1.024
*	8 Acenaphthene-d10	164	8.565	8.561	(1.000)	212162	2.00000	
	9 Acenaphthene	153	8.601	8.602	(1.004)	103903	1.00000	1.010
	10 Dibenzofuran	168	8.790	8.791	(1.026)	150809	1.00000	1.012
	11 Fluorene	166	9.209	9.211	(1.075)	106489	1.00000	1.003
*	15 Phenanthrene-d10	188	10.361	10.363	(1.000)	334551	2.00000	
	16 Phenanthrene	178	10.391	10.392	(1.003)	152981	1.00000	0.9861(H)
	17 Anthracene	178	10.444	10.446	(1.008)	147862	1.00000	0.9558(H)
	19 Fluoranthene	202	11.874	11.875	(1.146)	144588	1.00000	1.012
	20 Pyrene	202	12.157	12.159	(0.890)	145323	1.00000	0.9803
	22 Benzo(a)anthracene	228	13.634	13.636	(0.998)	100862	1.00000	0.9689(H)
*	23 Chrysene-d12	240	13.658	13.660	(1.000)	221346	2.00000	
	24 Chrysene	228	13.688	13.689	(1.002)	111952	1.00000	1.028
	28 Benzo(b)fluoranthene	252	14.905	14.906	(0.972)	93524	1.00000	0.9290(H)
	29 Benzo(k)fluoranthene	252	14.928	14.930	(0.973)	105865	1.00000	0.9804
	30 Benzo(a)pyrene	252	15.277	15.278	(0.996)	79098	1.00000	0.9341
*	31 Perylene-d12	264	15.342	15.343	(1.000)	201277	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	16.736	16.738	(1.091)	85405	1.00000	0.9901
$	32 Dibenz(a,h)anthrancene-d14	292	16.683	16.684	(1.087)	44498	1.00000	0.8951
	34 Dibenz(a,h)anthracene	278	16.724	16.732	(1.090)	62512	1.00000	0.9587
	35 Benzo(g,h,i)perylene	276	17.132	17.139	(1.117)	77306	1.00000	0.9582

QC Flag Legend

H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic0711e.d
Lab Smp Id: IC0711E
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20090711.b/simpna.m
Misc Info:

Calibration Date: 11-JUL-2009
Calibration Time: 15:03

Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	463169	231584	926338	459743	-0.74
8 Acenaphthene-d10	213444	106722	426888	212162	-0.60
15 Phenanthrene-d10	326462	163231	652924	334551	2.48
23 Chrysene-d12	224038	112019	448076	221346	-1.20
31 Perylene-d12	206230	103115	412460	201277	-2.40

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.53	6.03	7.03	6.53	-0.02
8 Acenaphthene-d10	8.56	8.06	9.06	8.57	0.05
15 Phenanthrene-d10	10.36	9.86	10.86	10.36	-0.01
23 Chrysene-d12	13.66	13.16	14.16	13.66	-0.01
31 Perylene-d12	15.34	14.84	15.84	15.34	-0.01

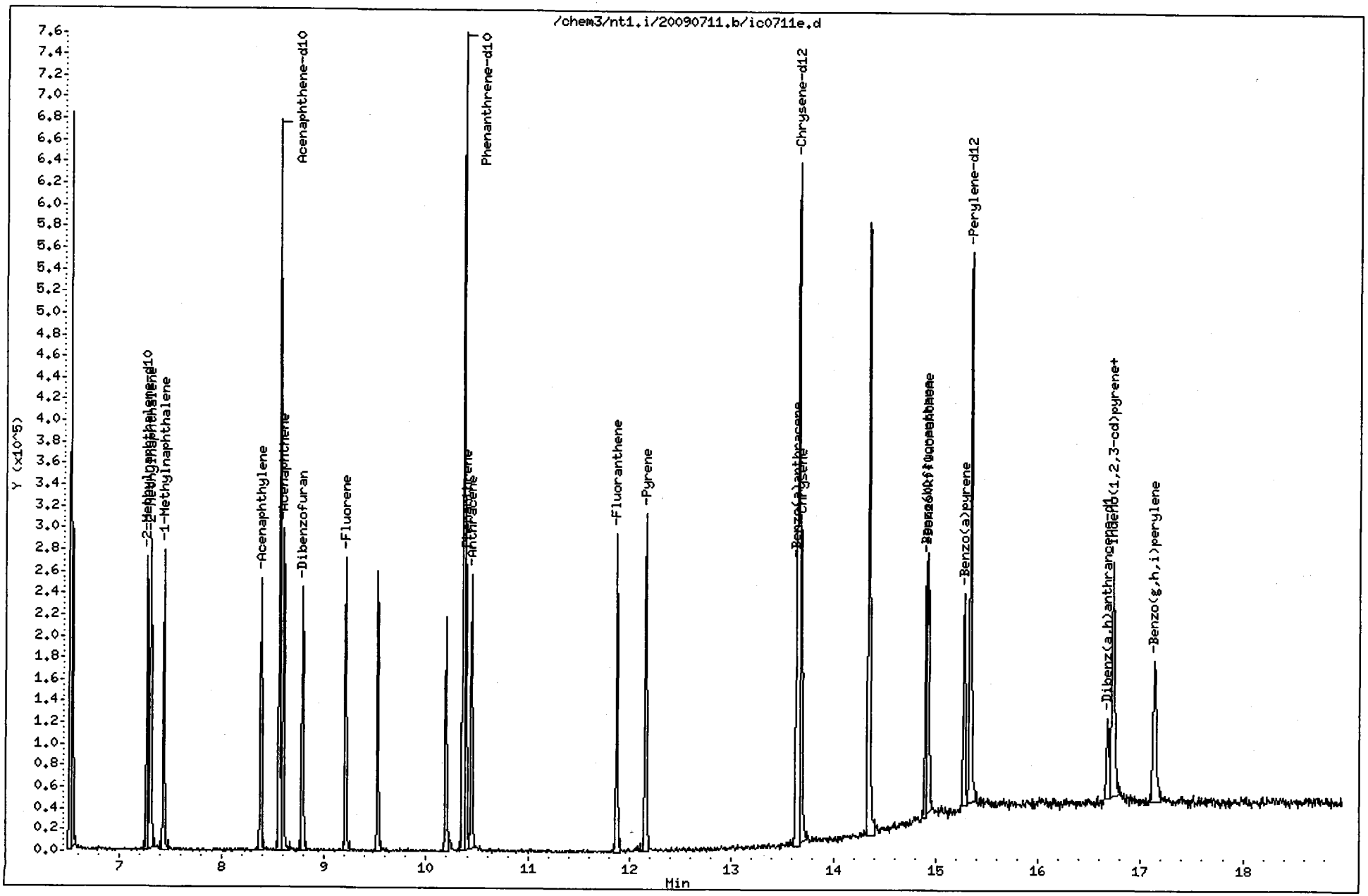
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20090711.b/ic0711e.d
Date : 11-JUL-2009 14:12
Client ID:
Sample Info: IC0711E

Column phase: ZB-5msi

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25



YZ 7/13/09

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20090711.b/ic0711f.d
Lab Smp Id: IC0711F
Inj Date : 11-JUL-2009 14:37
Operator : VTS Inst ID: nt1.i
Smp Info : IC0711F
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt1.i/20090711.b/simpna.m
Meth Date : 13-Jul-2009 10:20 yev Quant Type: ISTD
Cal Date : 11-JUL-2009 14:37 Cal File: ic0711f.d
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.525	6.529	(1.000)	444313	2.00000	
	2 Naphthalene	128	6.549	6.546	(1.004)	102983	0.50000	0.5273
$	3 2-Methylnaphthalene-d10	152	7.275	7.273	(1.115)	52547	0.50000	0.5355
	4 2-Methylnaphthalene	142	7.311	7.308	(1.120)	57663	0.50000	0.5314
	5 1-Methylnaphthalene	142	7.441	7.438	(1.140)	55120	0.50000	0.5140
	7 Acenaphthylene	152	8.386	8.384	(0.979)	84085	0.50000	0.5288
*	8 Acenaphthene-d10	164	8.563	8.561	(1.000)	205696	2.00000	
	9 Acenaphthene	153	8.599	8.602	(1.004)	51839	0.50000	0.5200
	10 Dibenzofuran	168	8.788	8.791	(1.026)	74459	0.50000	0.5155
	11 Fluorene	166	9.207	9.211	(1.075)	51699	0.50000	0.5024
*	15 Phenanthrene-d10	188	10.359	10.363	(1.000)	310686	2.00000	
	16 Phenanthrene	178	10.389	10.392	(1.003)	79607	0.50000	0.5526(H)
	17 Anthracene	178	10.442	10.446	(1.008)	76649	0.50000	0.5335
	19 Fluoranthene	202	11.872	11.875	(1.146)	69186	0.50000	0.5213
	20 Pyrene	202	12.161	12.159	(0.891)	72362	0.50000	0.5335
	22 Benzo(a)anthracene	228	13.638	13.636	(0.999)	48863	0.50000	0.5130(H)
*	23 Chrysene-d12	240	13.656	13.660	(1.000)	202535	2.00000	
	24 Chrysene	228	13.691	13.689	(1.003)	50722	0.50000	0.5088
	28 Benzo(b)fluoranthene	252	14.903	14.906	(0.971)	53534	0.50000	0.5784(H)
	29 Benzo(k)fluoranthene	252	14.932	14.930	(0.973)	47386	0.50000	0.4773
	30 Benzo(a)pyrene	252	15.281	15.278	(0.996)	39069	0.50000	0.5018
*	31 Perylene-d12	264	15.340	15.343	(1.000)	185051	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	16.734	16.738	(1.091)	39597	0.50000	0.4993
$	32 Dibenz(a,h)anthrancene-d14	292	16.687	16.684	(1.088)	19142	0.50000	0.4188
	34 Dibenz(a,h)anthracene	278	16.728	16.732	(1.091)	27629	0.50000	0.4609
	35 Benzo(g,h,i)perylene	276	17.136	17.139	(1.117)	36446	0.50000	0.4913

QC Flag Legend

H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic0711f.d
Lab Smp Id: IC0711F
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20090711.b/simpna.m
Misc Info:

Calibration Date: 11-JUL-2009
Calibration Time: 15:03

Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	463169	231584	926338	444313	-4.07
8 Acenaphthene-d10	213444	106722	426888	205696	-3.63
15 Phenanthrene-d10	326462	163231	652924	310686	-4.83
23 Chrysene-d12	224038	112019	448076	202535	-9.60
31 Perylene-d12	206230	103115	412460	185051	-10.27

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.53	6.03	7.03	6.52	-0.06
8 Acenaphthene-d10	8.56	8.06	9.06	8.56	0.03
15 Phenanthrene-d10	10.36	9.86	10.86	10.36	-0.03
23 Chrysene-d12	13.66	13.16	14.16	13.66	-0.03
31 Perylene-d12	15.34	14.84	15.84	15.34	-0.02

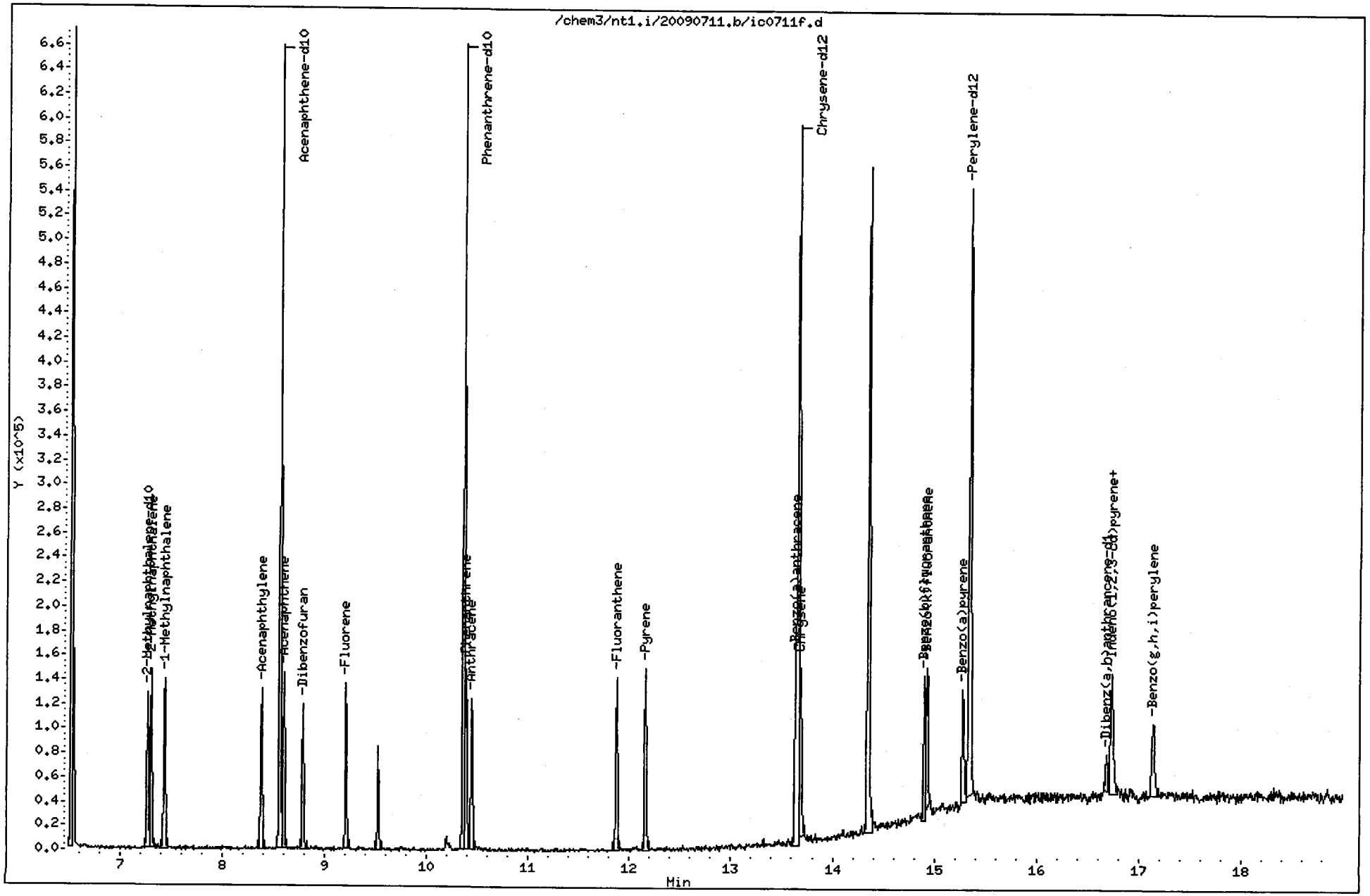
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20090711.b/ic0711f.d
Date : 11-JUL-2009 14:37
Client ID:
Sample Info: IC0711F

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



YZ 7/13/09

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20090711.b/icv0711.d
Lab Smp Id: ICV0711
Inj Date : 11-JUL-2009 15:03
Operator : VTS Inst ID: nt1.i
Smp Info : ICV0711
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt1.i/20090711.b/simpna.m
Meth Date : 13-Jul-2009 10:20 yev Quant Type: ISTD
Cal Date : 11-JUL-2009 14:37 Cal File: ic0711f.d
Als bottle: 8 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.529	6.529	(1.000)	449405	2.00000	
	2 Naphthalene	128	6.546	6.546	(1.003)	543297	2.50000	2.750
$	3 2-Methylnaphthalene-d10	152	7.273	7.273	(1.114)	271487	2.50000	2.735
	4 2-Methylnaphthalene	142	7.308	7.308	(1.119)	299336	2.50000	2.728
	5 1-Methylnaphthalene	142	7.438	7.438	(1.139)	298402	2.50000	2.751
	7 Acenaphthylene	152	8.384	8.384	(0.979)	430173	2.50000	2.677
*	8 Acenaphthene-d10	164	8.561	8.561	(1.000)	207872	2.00000	
	9 Acenaphthene	153	8.602	8.602	(1.005)	271103	2.50000	2.691
	10 Dibenzofuran	168	8.791	8.791	(1.027)	396722	2.50000	2.718
	11 Fluorene	166	9.211	9.211	(1.076)	283442	2.50000	2.726
*	15 Phenanthrene-d10	188	10.363	10.363	(1.000)	317068	2.00000	
	16 Phenanthrene	178	10.392	10.392	(1.003)	395874	2.50000	2.693
	17 Anthracene	178	10.446	10.446	(1.008)	408353	2.50000	2.785
	19 Fluoranthene	202	11.875	11.875	(1.146)	379797	2.50000	2.804
	20 Pyrene	202	12.159	12.159	(0.890)	389823	2.50000	2.725
	22 Benzo(a)anthracene	228	13.636	13.636	(0.998)	268830	2.50000	2.675
*	23 Chrysene-d12	240	13.660	13.660	(1.000)	213640	2.00000	
	24 Chrysene	228	13.689	13.689	(1.002)	272863	2.50000	2.595
	28 Benzo(b)fluoranthene	252	14.906	14.906	(0.972)	258928	2.50000	2.676
	29 Benzo(k)fluoranthene	252	14.930	14.930	(0.973)	287085	2.50000	2.766
	30 Benzo(a)pyrene	252	15.278	15.278	(0.996)	218663	2.50000	2.687
*	31 Perylene-d12	264	15.343	15.343	(1.000)	193446	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	16.738	16.738	(1.091)	234477	2.50000	2.828
$	32 Dibenz(a,h)anthrancene-d14	292	16.684	16.684	(1.087)	138959	2.50000	2.908
	34 Dibenz(a,h)anthracene	278	16.732	16.732	(1.090)	185703	2.50000	2.963(M)
	35 Benzo(g,h,i)perylene	276	17.139	17.139	(1.117)	217215	2.50000	2.801

QC Flag Legend

M - Compound response manually integrated.

7B

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR QEA, LLC.

ARI Job No: PG52 Project: EDDON BOATYARD

Instrument ID: NT1 Cont. Calib. Date: 07/11/09

Init. Calib. Date: 07/11/09 Cont. Calib. Time: 1230

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
Naphthalene	0.879	0.887	0.700	AVRG	0.9
2-Methylnaphthalene	0.488	0.494	0.400	AVRG	1.2
Acenaphthylene	1.546	1.585	0.900	AVRG	2.5
Acenaphthene	0.969	0.948	0.900	AVRG	-2.2
Dibenzofuran	1.405	1.409	0.800	AVRG	0.3
Fluorene	1.000	1.038	0.900	AVRG	3.8
Phenanthrene	0.928	0.928	0.700	AVRG	0.0
Anthracene	0.925	0.942	0.700	AVRG	1.8
Fluoranthene	0.854	0.901	0.600	AVRG	5.5
Pyrene	1.339	1.352	0.600	AVRG	1.0
Benzo(a)anthracene	0.940	0.961	0.800	AVRG	2.2
Chrysene	0.984	0.997	0.700	AVRG	1.3
Benzo(b)fluoranthene	1.000	0.945	0.700	AVRG	-5.5
Benzo(k)fluoranthene	1.073	1.145	0.700	AVRG	6.7
Benzo(a)pyrene	0.841	0.861	0.700	AVRG	2.4
Indeno(1,2,3-cd)pyrene	0.857	0.894	0.500	AVRG	4.3
Dibenz(a,h)anthracene	0.648	0.698	0.010	AVRG	7.7
Benzo(g,h,i)perylene	0.802	0.843	0.500	AVRG	5.1
1-Methylnaphthalene	0.483	0.485	0.010	AVRG	0.4
2-Methylnaphthalene-d10	0.442	0.442	0.010	AVRG	0.0
Dibenz(a,h)anthrancene-d14	0.494	0.509	0.010	AVRG	3.0

<- Exceeds QC limit of 20% D
* RF less than minimum RF

FORM VII SV-1

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: icv0711.d
Lab Smp Id: ICV0711
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20090711.b/simpna.m
Misc Info:

Calibration Date: 11-JUL-2009
Calibration Time: 12:30

Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	463169	231584	926338	449405	-2.97
8 Acenaphthene-d10	213444	106722	426888	207872	-2.61
15 Phenanthrene-d10	326462	163231	652924	317068	-2.88
23 Chrysene-d12	224038	112019	448076	213640	-4.64
31 Perylene-d12	206230	103115	412460	193446	-6.20

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.53	6.03	7.03	6.53	0.02
8 Acenaphthene-d10	8.57	8.07	9.07	8.56	-0.05
15 Phenanthrene-d10	10.36	9.86	10.86	10.36	0.01
23 Chrysene-d12	13.66	13.16	14.16	13.66	0.01
31 Perylene-d12	15.34	14.84	15.84	15.34	0.01

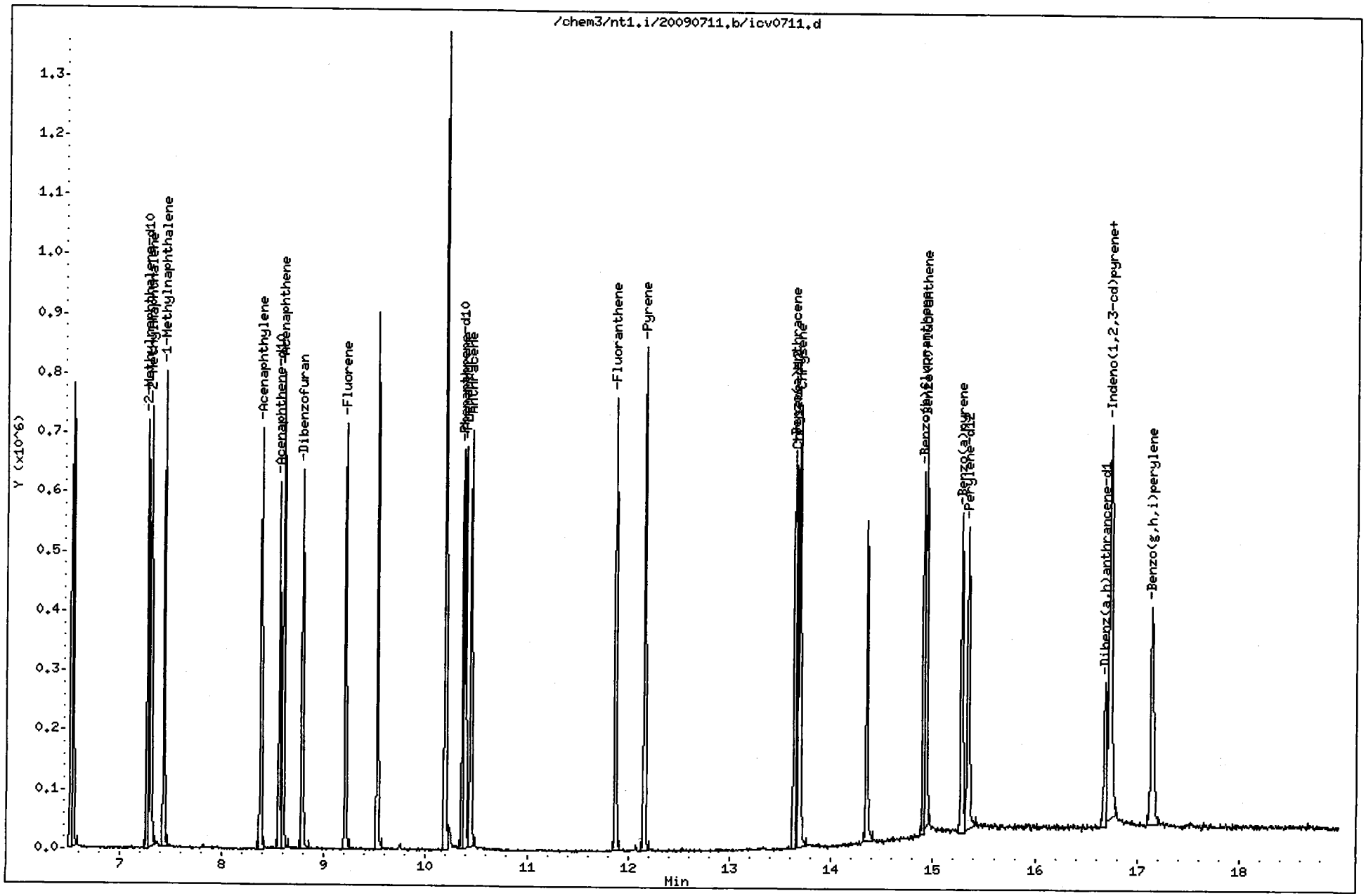
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20090711.b/icv0711.d
Date : 11-JUL-2009 15:03
Client ID:
Sample Info: ICV0711

Column phase: ZB-5msi

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25



SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR QEA, LLC.

ARI Job No: PG52 Project: EDDON BOATYARD

Instrument ID: NT1 Cont. Calib. Date: 07/17/09

Init. Calib. Date: 07/11/09 Cont. Calib. Time: 1357

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
Naphthalene	0.879	0.923	0.700	AVRG	5.0
2-Methylnaphthalene	0.488	0.496	0.400	AVRG	1.6
Acenaphthylene	1.546	1.590	0.900	AVRG	2.8
Acenaphthene	0.969	0.969	0.900	AVRG	0.0
Dibenzofuran	1.405	1.389	0.800	AVRG	-1.1
Fluorene	1.000	1.052	0.900	AVRG	5.2
Phenanthrene	0.928	0.924	0.700	AVRG	-0.4
Anthracene	0.925	0.953	0.700	AVRG	3.0
Fluoranthene	0.854	0.923	0.600	AVRG	8.1
Pyrene	1.339	1.216	0.600	AVRG	-9.2
Benzo(a)anthracene	0.940	0.968	0.800	AVRG	3.0
Chrysene	0.984	0.968	0.700	AVRG	-1.6
Benzo(b)fluoranthene	1.000	0.968	0.700	AVRG	-3.2
Benzo(k)fluoranthene	1.073	1.171	0.700	AVRG	9.1
Benzo(a)pyrene	0.841	0.881	0.700	AVRG	4.8
Indeno(1,2,3-cd)pyrene	0.857	0.818	0.500	AVRG	-4.6
Dibenz(a,h)anthracene	0.648	0.695	0.010	AVRG	7.2
Benzo(g,h,i)perylene	0.802	0.699	0.500	AVRG	-12.8
1-Methylnaphthalene	0.483	0.501	0.010	AVRG	3.7
2-Methylnaphthalene-d10	0.442	0.457	0.010	AVRG	3.4
Dibenz(a,h)anthrancene-d14	0.494	0.492	0.010	AVRG	-0.4

<- Exceeds QC limit of 20% D
* RF less than minimum RF

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt1.i Injection Date: 17-JUL-2009 13:57
Lab File ID: cc0717.d Init. Cal. Date(s): 11-JUL-2009 11-JUL-2009
Analysis Type: Init. Cal. Times: 12:30 14:37
Lab Sample ID: CC0717 Quant Type: ISTD
Method: /chem3/nt1.i/20090717.b/simpna.m

COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
2 Naphthalene	0.87918	0.92262	0.010	4.94001	20.00000	Averaged
$ 3 2-Methylnaphthalene-d10	0.44174	0.45730	0.010	3.52219	20.00000	Averaged
4 2-Methylnaphthalene	0.48841	0.49566	0.010	1.48500	20.00000	Averaged
5 1-Methylnaphthalene	0.48270	0.50135	0.010	3.86569	20.00000	Averaged
7 Acenaphthylene	1.54614	1.58968	0.010	2.81621	20.00000	Averaged
9 Acenaphthene	0.96930	0.96908	0.010	-0.02278	20.00000	Averaged
10 Dibenzofuran	1.40444	1.38929	0.010	-1.07876	20.00000	Averaged
11 Fluorene	1.00057	1.05244	0.010	5.18432	20.00000	Averaged
16 Phenanthrene	0.92741	0.92453	0.010	-0.31046	20.00000	Averaged
17 Anthracene	0.92481	0.95302	0.010	3.05113	20.00000	Averaged
19 Fluoranthene	0.85428	0.92316	0.010	8.06327	20.00000	Averaged
20 Pyrene	1.33941	1.21597	0.010	-9.21572	20.00000	Averaged
22 Benzo(a)anthracene	0.94064	0.96781	0.010	2.88916	20.00000	Averaged
24 Chrysene	0.98433	0.96783	0.010	-1.67612	20.00000	Averaged
28 Benzo(b)fluoranthene	1.00036	0.96846	0.010	-3.18868	20.00000	Averaged
29 Benzo(k)fluoranthene	1.07293	1.17106	0.010	9.14595	20.00000	Averaged
30 Benzo(a)pyrene	0.84143	0.88148	0.010	4.76003	20.00000	Averaged
33 Indeno(1,2,3-cd)pyrene	0.85713	0.81837	0.010	-4.52166	20.00000	Averaged
$ 32 Dibenz(a,h)anthrancene-d14	0.49398	0.49243	0.010	-0.31381	20.00000	Averaged
34 Dibenz(a,h)anthracene	0.64792	0.69527	0.010	7.30778	20.00000	Averaged
35 Benzo(g,h,i)perylene	0.80168	0.69948	0.010	-12.74777	20.00000	Averaged

7/21/09

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20090717.b/cc0717.d
Lab Smp Id: CC0717
Inj Date : 17-JUL-2009 13:57
Operator : VTS Inst ID: nt1.i
Smp Info : CC0717
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt1.i/20090717.b/simpna.m
Meth Date : 17-Jul-2009 14:41 yev Quant Type: ISTD
Cal Date : 11-JUL-2009 14:37 Cal File: ic0711f.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.474	6.474	(1.000)	488162	2.00000	
	2 Naphthalene	128	6.498	6.498	(1.004)	562983	2.50000	2.624
$	3 2-Methylnaphthalene-d10	152	7.218	7.218	(1.115)	279044	2.50000	2.588
	4 2-Methylnaphthalene	142	7.260	7.260	(1.121)	302455	2.50000	2.537
	5 1-Methylnaphthalene	142	7.384	7.384	(1.141)	305928	2.50000	2.597
	7 Acenaphthylene	152	8.329	8.329	(0.979)	450451	2.50000	2.570
*	8 Acenaphthene-d10	164	8.506	8.506	(1.000)	226688	2.00000	
	9 Acenaphthene	153	8.548	8.548	(1.005)	274597	2.50000	2.499
	10 Dibenzofuran	168	8.737	8.737	(1.027)	393668	2.50000	2.473
	11 Fluorene	166	9.156	9.156	(1.076)	298220	2.50000	2.630
*	15 Phenanthrene-d10	188	10.302	10.302	(1.000)	355623	2.00000	
	16 Phenanthrene	178	10.332	10.332	(1.003)	410981	2.50000	2.492
	17 Anthracene	178	10.391	10.391	(1.009)	423647	2.50000	2.576
	19 Fluoranthene	202	11.815	11.815	(1.147)	410372	2.50000	2.702
	20 Pyrene	202	12.098	12.098	(0.890)	412070	2.50000	2.270
	22 Benzo(a)anthracene	228	13.581	13.581	(0.999)	327974	2.50000	2.572
*	23 Chrysene-d12	240	13.599	13.599	(1.000)	271105	2.00000	
	24 Chrysene	228	13.634	13.634	(1.003)	327979	2.50000	2.458
	28 Benzo(b)fluoranthene	252	14.846	14.846	(0.972)	269060	2.50000	2.420
	29 Benzo(k)fluoranthene	252	14.869	14.869	(0.973)	325345	2.50000	2.729
	30 Benzo(a)pyrene	252	15.218	15.218	(0.996)	244895	2.50000	2.619
*	31 Perylene-d12	264	15.277	15.277	(1.000)	222258	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	16.648	16.648	(1.090)	227362	2.50000	2.387
$	32 Dibenz(a,h)anthrancene-d14	292	16.594	16.594	(1.086)	136807	2.50000	2.492
	34 Dibenz(a,h)anthracene	278	16.642	16.642	(1.089)	193161	2.50000	2.683
	35 Benzo(g,h,i)perylene	276	17.043	17.043	(1.116)	194331	2.50000	2.181

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: cc0717.d
Lab Smp Id: CC0717
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20090717.b/simpna.m
Misc Info:

Calibration Date: 17-JUL-2009
Calibration Time: 13:04

Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	463169	231584	926338	488162	5.40
8 Acenaphthene-d10	213444	106722	426888	226688	6.20
15 Phenanthrene-d10	326462	163231	652924	355623	8.93
23 Chrysene-d12	224038	112019	448076	271105	21.01
31 Perylene-d12	206230	103115	412460	222258	7.77

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.53	6.03	7.03	6.47	-0.82
8 Acenaphthene-d10	8.57	8.07	9.07	8.51	-0.69
15 Phenanthrene-d10	10.36	9.86	10.86	10.30	-0.57
23 Chrysene-d12	13.66	13.16	14.16	13.60	-0.43
31 Perylene-d12	15.34	14.84	15.84	15.28	-0.42

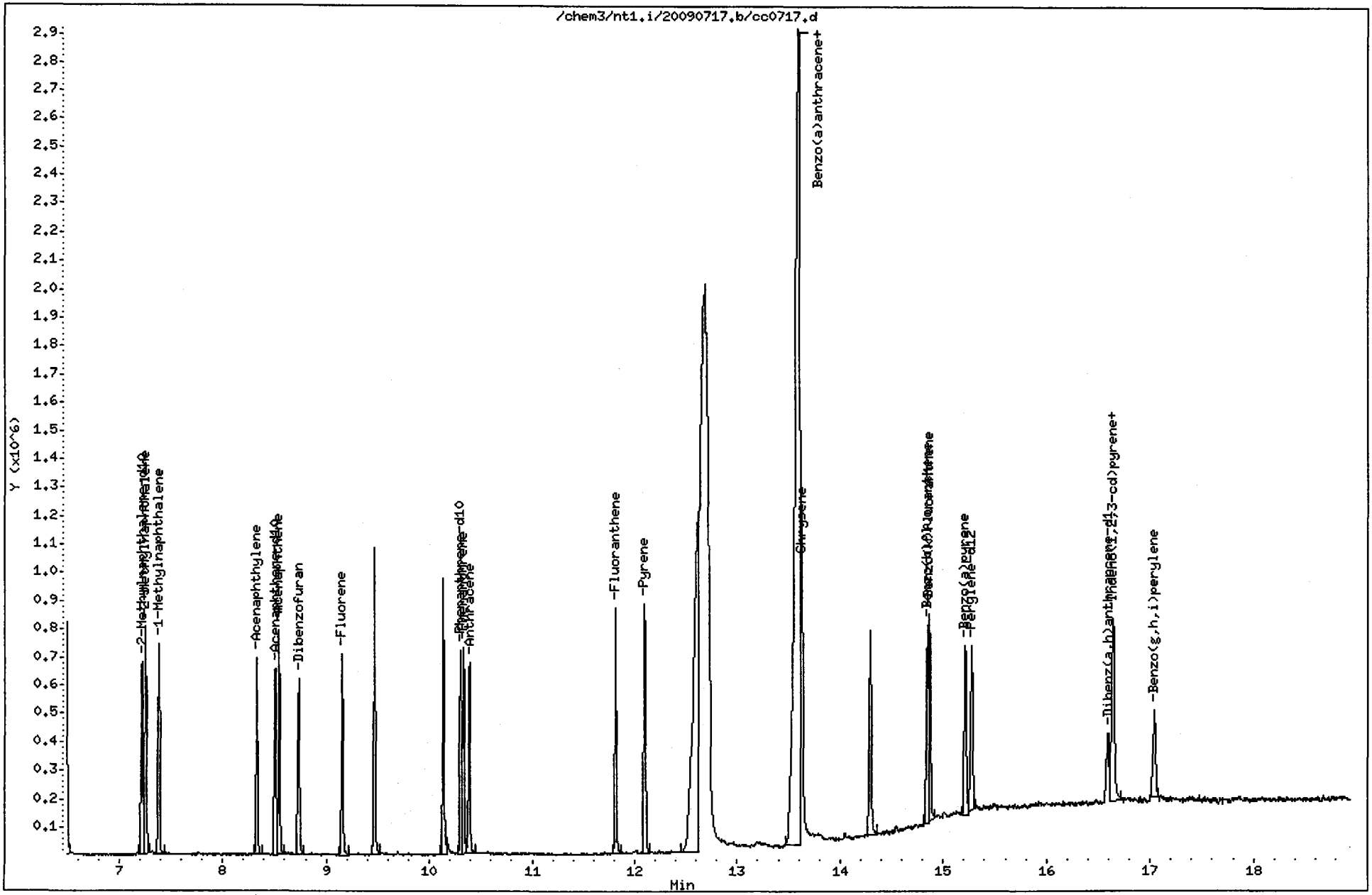
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20090717.b/cc0717.d
Date : 17-JUL-2009 13:57
Client ID:
Sample Info: CC0717

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR QEA, LLC.

ARI Job No: PG52 Project: EDDON BOATYARD

Instrument ID: NT1 Cont. Calib. Date: 07/18/09

Init. Calib. Date: 07/11/09 Cont. Calib. Time: 1054

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
Naphthalene	0.879	0.903	0.700	AVRG	2.7
2-Methylnaphthalene	0.488	0.493	0.400	AVRG	1.0
Acenaphthylene	1.546	1.602	0.900	AVRG	3.6
Acenaphthene	0.969	0.959	0.900	AVRG	-1.0
Dibenzofuran	1.405	1.418	0.800	AVRG	0.9
Fluorene	1.000	1.014	0.900	AVRG	1.4
Phenanthrene	0.928	0.945	0.700	AVRG	1.8
Anthracene	0.925	0.945	0.700	AVRG	2.2
Fluoranthene	0.854	0.915	0.600	AVRG	7.1
Pyrene	1.339	1.225	0.600	AVRG	-8.5
Benzo(a)anthracene	0.940	0.963	0.800	AVRG	2.4
Chrysene	0.984	0.974	0.700	AVRG	-1.0
Benzo(b)fluoranthene	1.000	1.026	0.700	AVRG	2.6
Benzo(k)fluoranthene	1.073	1.136	0.700	AVRG	5.9
Benzo(a)pyrene	0.841	0.876	0.700	AVRG	4.2
Indeno(1,2,3-cd)pyrene	0.857	0.812	0.500	AVRG	-5.2
Dibenz(a,h)anthracene	0.648	0.648	0.010	AVRG	0.0
Benzo(g,h,i)perylene	0.802	0.666	0.500	AVRG	-17.0
1-Methylnaphthalene	0.483	0.473	0.010	AVRG	-2.1
2-Methylnaphthalene-d10	0.442	0.443	0.010	AVRG	0.2
Dibenz(a,h)anthrancene-d14	0.494	0.477	0.010	AVRG	-3.4

<- Exceeds QC limit of 20% D
* RF less than minimum RF

Data File: /chem3/nt1.i/20090718.b/cc0718.d
Report Date: 18-Jul-2009 11:36

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt1.i
Lab File ID: cc0718.d
Analysis Type:
Lab Sample ID: CC0718
Method: /chem3/nt1.i/20090718.b/simpna.m

Injection Date: 18-JUL-2009 10:54
Init. Cal. Date(s): 11-JUL-2009 11-JUL-2009
Init. Cal. Times: 12:30 14:37
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
2 Naphthalene	0.87918	0.90280	0.010	2.68593	20.00000	Averaged
$ 3 2-Methylnaphthalene-d10	0.44174	0.44334	0.010	0.36313	20.00000	Averaged
4 2-Methylnaphthalene	0.48841	0.49270	0.010	0.87884	20.00000	Averaged
5 1-Methylnaphthalene	0.48270	0.47345	0.010	-1.91628	20.00000	Averaged
7 Acenaphthylene	1.54614	1.60164	0.010	3.58982	20.00000	Averaged
9 Acenaphthene	0.96930	0.95866	0.010	-1.09713	20.00000	Averaged
10 Dibenzofuran	1.40444	1.41767	0.010	0.94220	20.00000	Averaged
11 Fluorene	1.00057	1.01432	0.010	1.37372	20.00000	Averaged
16 Phenanthrene	0.92741	0.94530	0.010	1.92861	20.00000	Averaged
17 Anthracene	0.92481	0.94533	0.010	2.21911	20.00000	Averaged
19 Fluoranthene	0.85428	0.91470	0.010	7.07252	20.00000	Averaged
20 Pyrene	1.33941	1.22518	0.010	-8.52819	20.00000	Averaged
22 Benzo(a)anthracene	0.94064	0.96297	0.010	2.37377	20.00000	Averaged
24 Chrysene	0.98433	0.97448	0.010	-0.99988	20.00000	Averaged
28 Benzo(b)fluoranthene	1.00036	1.02554	0.010	2.51722	20.00000	Averaged
29 Benzo(k)fluoranthene	1.07293	1.13637	0.010	5.91315	20.00000	Averaged
30 Benzo(a)pyrene	0.84143	0.87555	0.010	4.05514	20.00000	Averaged
33 Indeno(1,2,3-cd)pyrene	0.85713	0.81201	0.010	-5.26377	20.00000	Averaged
$ 32 Dibenz(a,h)anthrancene-d14	0.49398	0.47690	0.010	-3.45776	20.00000	Averaged
34 Dibenz(a,h)anthracene	0.64792	0.64849	0.010	0.08869	20.00000	Averaged
35 Benzo(g,h,i)perylene	0.80168	0.66563	0.010	-16.97029	20.00000	Averaged

YZ 07/18/09

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20090718.b/cc0718.d
Lab Smp Id: CC0718
Inj Date : 18-JUL-2009 10:54
Operator : VTS Inst ID: nt1.i
Smp Info : CC0718
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt1.i/20090718.b/simpna.m
Meth Date : 18-Jul-2009 11:36 yev Quant Type: ISTD
Cal Date : 11-JUL-2009 14:37 Cal File: ic0711f.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
*	1 Naphthalene-d8	136	6.452	6.452	(1.000)	521858	2.00000	
	2 Naphthalene	128	6.476	6.476	(1.004)	588916	2.50000	2.567
$	3 2-Methylnaphthalene-d10	152	7.196	7.196	(1.115)	289203	2.50000	2.509
	4 2-Methylnaphthalene	142	7.232	7.232	(1.121)	321401	2.50000	2.522
	5 1-Methylnaphthalene	142	7.362	7.362	(1.141)	308839	2.50000	2.452
	7 Acenaphthylene	152	8.301	8.301	(0.978)	469853	2.50000	2.590
*	8 Acenaphthene-d10	164	8.484	8.484	(1.000)	234686	2.00000	
	9 Acenaphthene	153	8.520	8.520	(1.004)	281231	2.50000	2.473
	10 Dibenzofuran	168	8.709	8.709	(1.026)	415884	2.50000	2.524
	11 Fluorene	166	9.128	9.128	(1.076)	297557	2.50000	2.534
*	15 Phenanthrene-d10	188	10.280	10.280	(1.000)	358826	2.00000	
	16 Phenanthrene	178	10.304	10.304	(1.002)	423997	2.50000	2.548
	17 Anthracene	178	10.363	10.363	(1.008)	424011	2.50000	2.555
	19 Fluoranthene	202	11.787	11.787	(1.147)	410272	2.50000	2.677
	20 Pyrene	202	12.070	12.070	(0.889)	422226	2.50000	2.287
	22 Benzo(a)anthracene	228	13.553	13.553	(0.999)	331861	2.50000	2.559(H)
*	23 Chrysene-d12	240	13.571	13.571	(1.000)	275699	2.00000	
	24 Chrysene	228	13.607	13.607	(1.003)	335830	2.50000	2.475
	28 Benzo(b)fluoranthene	252	14.818	14.818	(0.972)	304820	2.50000	2.563(H)
	29 Benzo(k)fluoranthene	252	14.841	14.841	(0.974)	337762	2.50000	2.648
	30 Benzo(a)pyrene	252	15.184	15.184	(0.996)	260239	2.50000	2.601
*	31 Perylene-d12	264	15.243	15.243	(1.000)	237783	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	16.602	16.602	(1.089)	241353	2.50000	2.368
$	32 Dibenz(a,h)anthrancene-d14	292	16.549	16.549	(1.086)	141748	2.50000	2.414
	34 Dibenz(a,h)anthracene	278	16.596	16.596	(1.089)	192751	2.50000	2.502
	35 Benzo(g,h,i)perylene	276	16.992	16.992	(1.115)	197844	2.50000	2.076

QC Flag Legend

H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: cc0718.d
Lab Smp Id: CC0718
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20090718.b/simpna.m
Misc Info:

Calibration Date: 18-JUL-2009
Calibration Time: 10:54

Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	463169	231584	926338	521858	12.67
8 Acenaphthene-d10	213444	106722	426888	234686	9.95
15 Phenanthrene-d10	326462	163231	652924	358826	9.91
23 Chrysene-d12	224038	112019	448076	275699	23.06
31 Perylene-d12	206230	103115	412460	237783	15.30

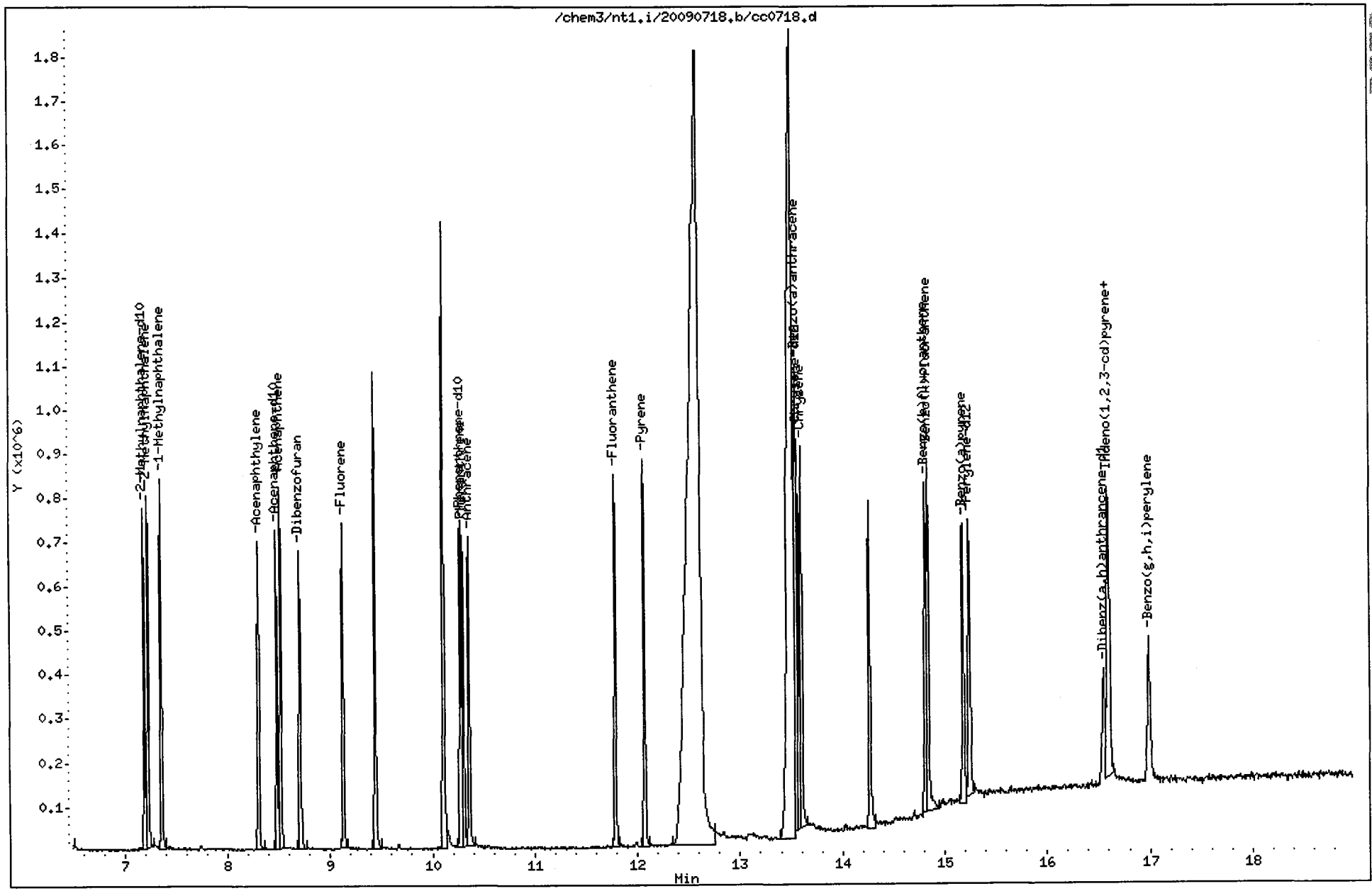
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.53	6.03	7.03	6.45	-1.15
8 Acenaphthene-d10	8.57	8.07	9.07	8.48	-0.95
15 Phenanthrene-d10	10.36	9.86	10.86	10.28	-0.78
23 Chrysene-d12	13.66	13.16	14.16	13.57	-0.64
31 Perylene-d12	15.34	14.84	15.84	15.24	-0.65

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20090718.b/cc0718.d
Date : 18-JUL-2009 10:54
Client ID:
Sample Info: CC0718

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



SIM Semivolatile Analysis
QC Raw Data

prepared
for

Anchor QEA

Project: Eddon Boatyard

ARI JOB NO: PG52

prepared
by

Analytical Resources, Inc.

Data File: /chem3/nt1.i/20090711.b/df0711.d

Date : 11-JUL-2009 12:12

Client ID:

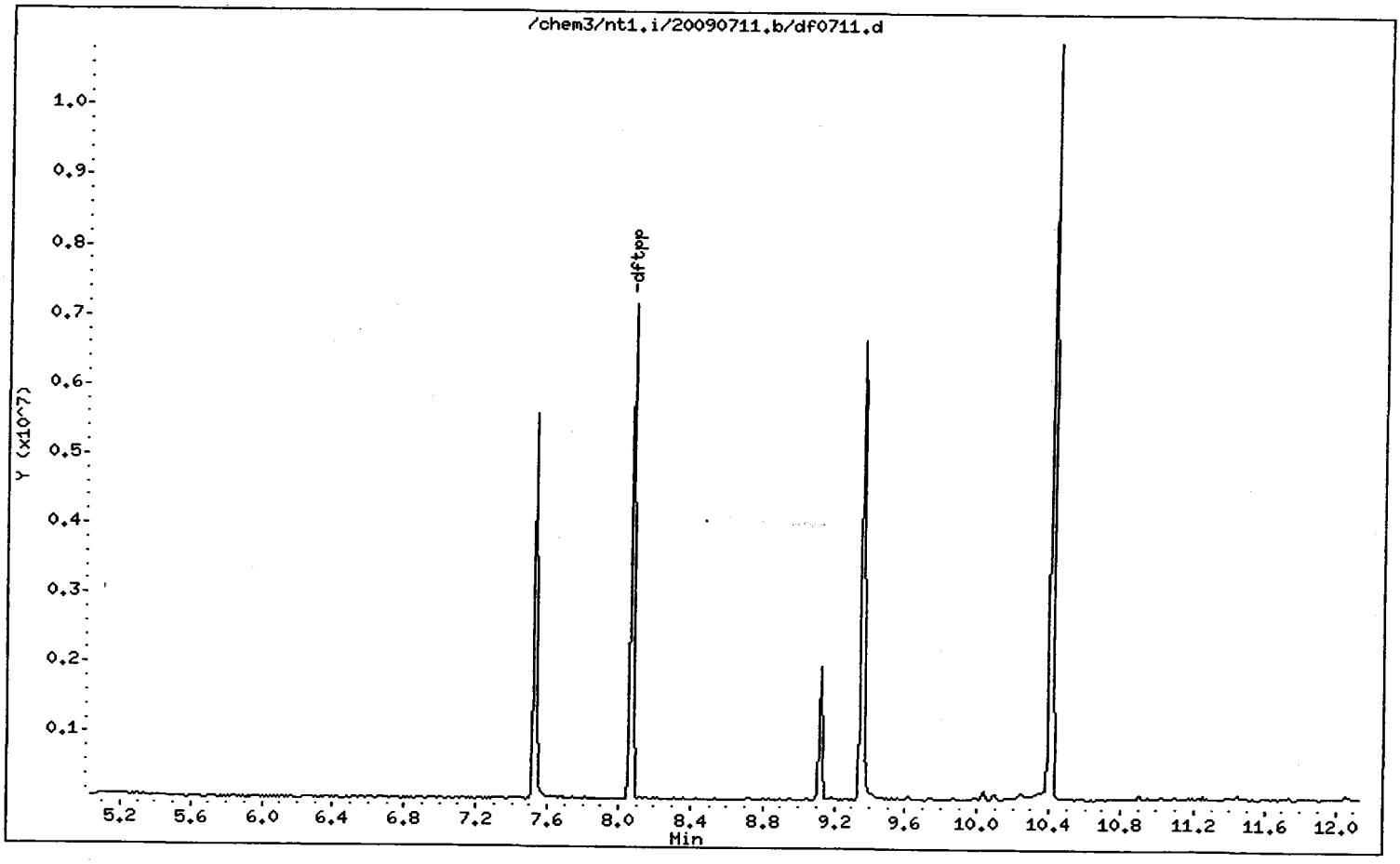
Instrument: nt1.i

Sample Info: DF0711

Operator: VTS

Column phase:

Column diameter: 0.25



Data File: /chem3/nt1.i/20090711.b/df0711.d

Date : 11-JUL-2009 12:12

Client ID:

Sample Info: DF0711

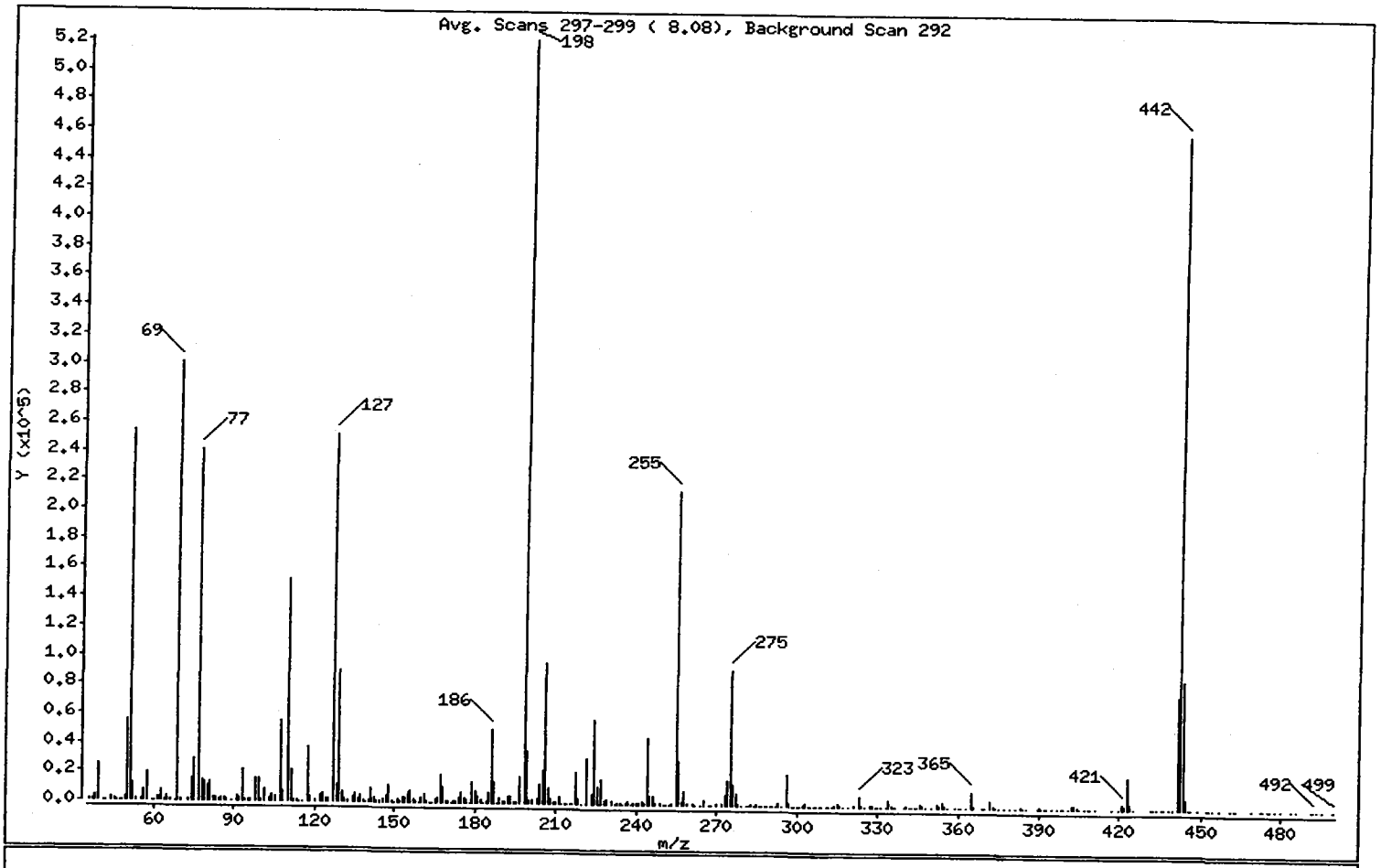
Instrument: nt1.i

Operator: VTS

Column phase:

1 dftpp

Column diameter: 0.25



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	48.73
68	Less than 2.00% of mass 69	0.04 (0.07)
69	Mass 69 relative abundance	57.68
70	Less than 2.00% of mass 69	0.22 (0.38)
127	25.00 - 75.00% of mass 198	48.38
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.83
275	10.00 - 30.00% of mass 198	17.72
365	Greater than 0.75% of mass 198	2.13
441	Present, but less than mass 443	14.78
442	40.00 - 110.00% of mass 198	88.34
443	15.00 - 24.00% of mass 442	16.76 (18.97)

Data File: /chem3/nt1.i/20090711.b/df0711.d

Date : 11-JUL-2009 12:12

Client ID:

Instrument: nt1.i

Sample Info: DF0711

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df0711.d

Spectrum: Avg. Scans 297-299 (8.08), Background Scan 292

Location of Maximum: 198.00

Number of points: 355

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	645	144.00	1072	239.00	872	345.00	94
37.00	1281	146.00	2529	240.00	797	346.00	1864
38.00	3923	147.00	5156	241.00	1432	347.00	783
39.00	25104	148.00	11630	242.00	2448	348.00	40
41.00	580	149.00	1465	243.00	725	350.00	221
42.00	442	150.00	322	244.00	45896	352.00	2751
44.00	2168	151.00	2487	245.00	6082	353.00	1670
45.00	1220	152.00	740	246.00	5723	354.00	3689
46.00	332	153.00	3034	247.00	999	355.00	727
47.00	70	154.00	3968	249.00	1198	356.00	65
48.00	353	155.00	6976	250.00	591	359.00	340
49.00	1930	156.00	8303	251.00	505	360.00	99
50.00	55600	157.00	2105	252.00	439	361.00	106
51.00	253888	158.00	1315	253.00	1294	363.00	204
52.00	12299	159.00	321	255.00	213888	365.00	11109
53.00	632	160.00	3015	256.00	30512	366.00	1501
55.00	934	161.00	5896	257.00	2086	369.00	116
56.00	7138	162.00	1664	258.00	9379	370.00	590
57.00	18696	163.00	273	259.00	1512	372.00	4666
59.00	289	164.00	140	261.00	724	373.00	1272
60.00	85	165.00	2499	262.00	162	374.00	90
61.00	2986	166.00	3867	264.00	9	375.00	70
62.00	2684	167.00	19752	265.00	3351	377.00	148
63.00	7080	168.00	11039	267.00	233	379.00	38
64.00	1158	169.00	1563	268.00	49	381.00	153
65.00	3369	170.00	931	270.00	883	383.00	1431
66.00	810	171.00	461	272.00	672	384.00	170
68.00	215	172.00	1521	273.00	6650	385.00	56
69.00	300480	173.00	1781	274.00	17176	389.00	172
70.00	1139	174.00	4118	275.00	92312	390.00	952
73.00	921	175.00	6866	276.00	14412	391.00	426
74.00	16069	176.00	3481	277.00	7952	392.00	346
75.00	29216	177.00	2385	278.00	1602	393.00	103
77.00	240128	178.00	318	279.00	338	395.00	105
78.00	14434	179.00	14212	281.00	340	397.00	63

Data File: /chem3/nt1.i/20090711.b/df0711.d

Date : 11-JUL-2009 12:12

Client ID:

Instrument: nt1.i

Sample Info: DF0711

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df0711.d

Spectrum: Avg. Scans 297-299 (8.08), Background Scan 292

Location of Maximum: 198.00

Number of points: 355

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	13340	180.00	8588	282.00	329	398.00	39
80.00	10528	181.00	5160	283.00	644	399.00	76
81.00	12936	182.00	2001	284.00	508	401.00	181
82.00	2968	183.00	333	285.00	858	402.00	2469
83.00	2838	184.00	668	286.00	112	403.00	2800
84.00	696	185.00	7011	287.00	53	404.00	1425
85.00	2769	186.00	50240	288.00	222	405.00	37
86.00	2124	187.00	14685	289.00	248	407.00	113
87.00	1666	188.00	581	290.00	180	408.00	51
89.00	300	189.00	3622	291.00	85	409.00	65
91.00	3256	190.00	672	292.00	525	411.00	78
92.00	1859	191.00	773	293.00	1951	417.00	79
93.00	21000	192.00	4927	294.00	298	420.00	329
94.00	875	193.00	4737	296.00	21720	421.00	3333
95.00	800	194.00	1354	297.00	2553	422.00	2884
96.00	1390	195.00	618	298.00	290	423.00	21120
98.00	15727	196.00	17920	299.00	43	424.00	3572
99.00	15929	198.00	520960	300.00	122	425.00	117
100.00	1224	199.00	35576	301.00	261	431.00	49
101.00	8386	200.00	2381	302.00	835	432.00	153
103.00	2652	201.00	2385	303.00	2741	433.00	146
104.00	4842	203.00	3323	304.00	416	435.00	109
105.00	3660	204.00	13485	305.00	69	436.00	131
107.00	55000	205.00	22184	306.00	180	438.00	140
108.00	7132	206.00	95784	307.00	179	439.00	100
110.00	152512	207.00	11056	308.00	431	441.00	76976
111.00	21232	208.00	3798	309.00	447	442.00	460224
112.00	1663	209.00	958	311.00	284	443.00	87296
113.00	703	210.00	1105	312.00	58	444.00	7290
114.00	198	211.00	5358	313.00	145	445.00	63
115.00	448	212.00	437	314.00	888	446.00	68
117.00	37640	213.00	157	315.00	2318	449.00	265
118.00	3610	214.00	462	316.00	1322	452.00	109
120.00	743	215.00	454	317.00	306	453.00	289
122.00	5306	216.00	284	319.00	209	454.00	84

Data File: /chem3/nt1.i/20090711.b/df0711.d

Date : 11-JUL-2009 12:12

Client ID:

Instrument: nt1.i

Sample Info: DF0711

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df0711.d

Spectrum: Avg. Scans 297-299 (8.08), Background Scan 292

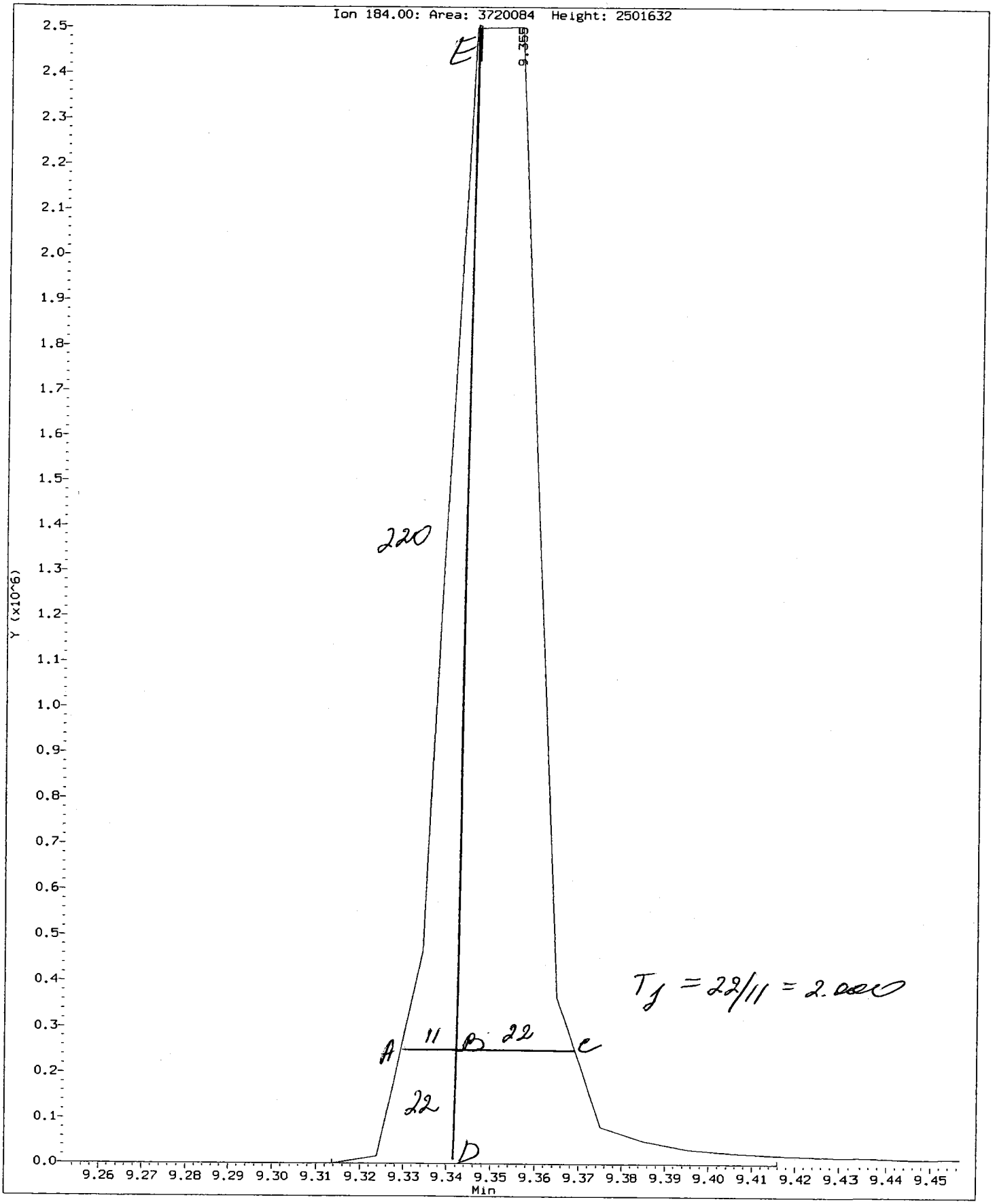
Location of Maximum: 198.00

Number of points: 355

m/z	Y	m/z	Y	m/z	Y	m/z	Y
123.00	5433	217.00	21512	321.00	1377	457.00	209
124.00	2738	218.00	4039	323.00	7124	461.00	62
125.00	2991	219.00	101	324.00	1739	462.00	140
127.00	252032	221.00	31328	325.00	421	463.00	36
128.00	11405	223.00	6906	327.00	1284	469.00	120
129.00	90416	224.00	56992	328.00	813	472.00	66
130.00	7531	225.00	11804	329.00	297	473.00	42
131.00	2182	226.00	288	330.00	184	475.00	106
132.00	1152	227.00	16584	331.00	432	476.00	51
134.00	3171	228.00	2448	333.00	384	478.00	216
135.00	6147	229.00	4058	334.00	5323	480.00	81
136.00	2233	231.00	2269	335.00	1764	484.00	37
137.00	4357	232.00	28	336.00	165	486.00	127
138.00	802	233.00	627	337.00	92	491.00	216
139.00	84	234.00	825	340.00	329	492.00	234
140.00	622	235.00	586	341.00	766	493.00	123
141.00	9776	236.00	699	342.00	210	495.00	41
142.00	3690	237.00	2027	343.00	156	499.00	119
143.00	1101	238.00	587	344.00	80		

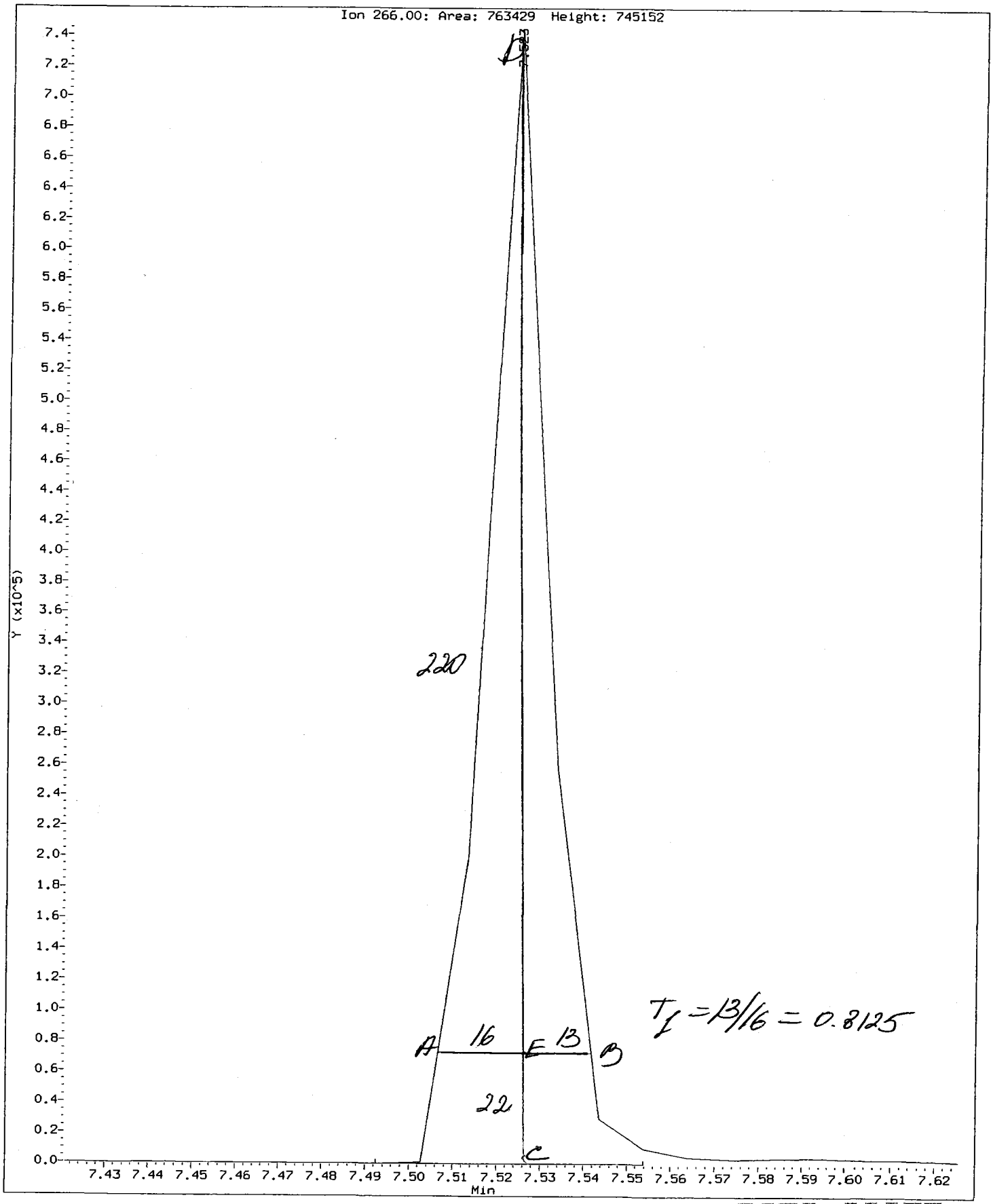
Data File: /chem3/nt1.i/20090711.b/ddt.b/df0711.d
Injection Date: 11-JUL-2009 12:12
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Data File: /chem3/nt1.i/20090711.b/ddt.b/df0711.d
Injection Date: 11-JUL-2009 12:12
Instrument: nt1.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt1.i/20090711.b/ddt.b/df0711.d
Method: /chem3/nt1.i/20090711.b/ddt.b/sw846ddt.m
Analysis Date: 11-JUL-2009 12:12

ARI ID: DF0711
Misc:
Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	7.523	763429
Benzidine	9.355	3720084
4,4'-DDE	9.621	6270
4,4'-DDD	10.040	24206
4,4'-DDT	10.408	2486760

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(\ 6270 + 24206) * 100}{(\ 6270 + 24206 + 2486760)}$$

DDT Percent Breakdown = 1.2 %

Data File: /chem3/nt1.i/20090717.b/df0717.d

Date : 17-JUL-2009 13:37

Client ID:

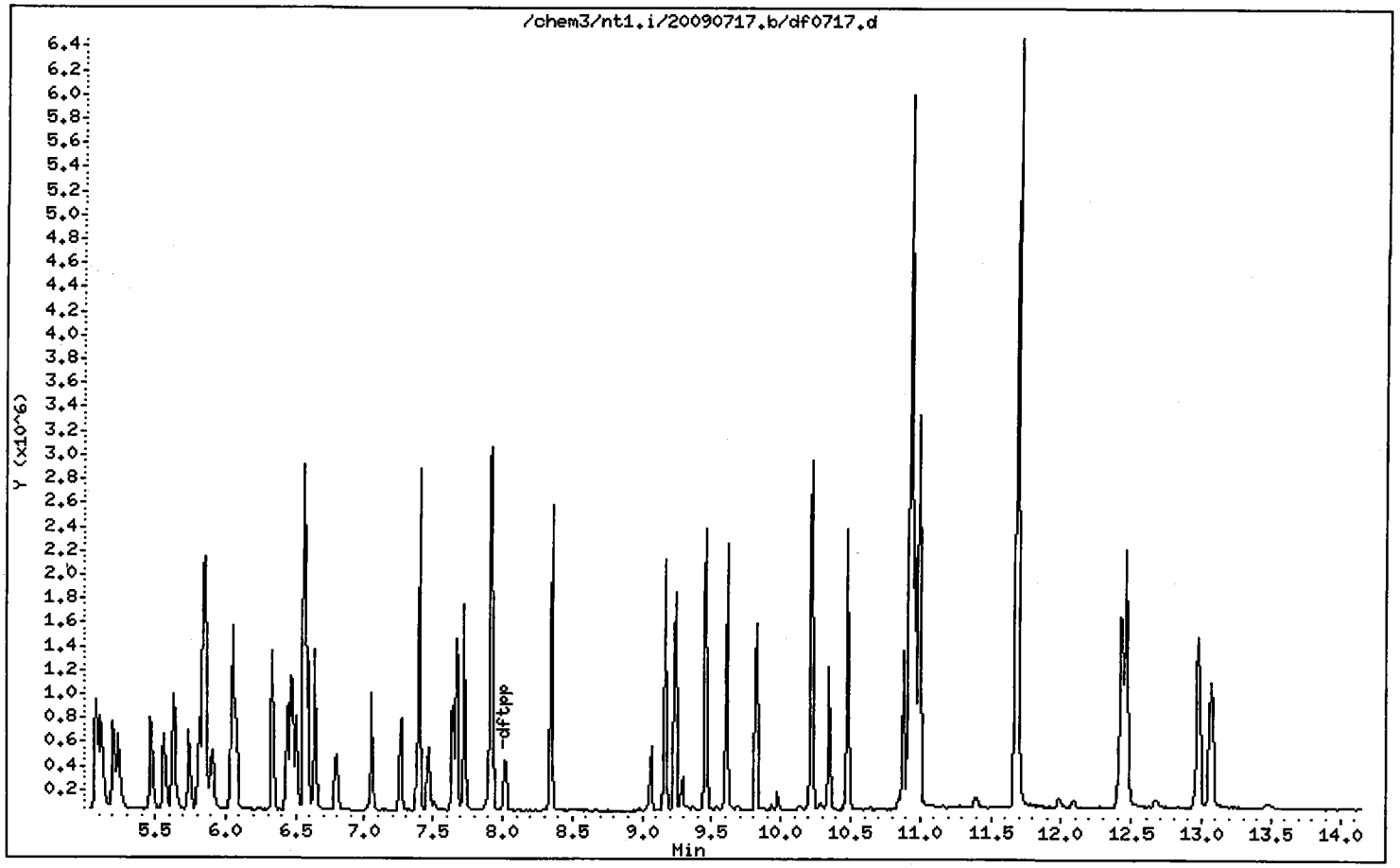
Instrument: nt1.i

Sample Info: DF0717

Operator: VTS

Column phase:

Column diameter: 0.25



Data File: /chem3/nt1.i/20090717.b/df0717.d

Date : 17-JUL-2009 13:37

Client ID:

Instrument: nt1.i

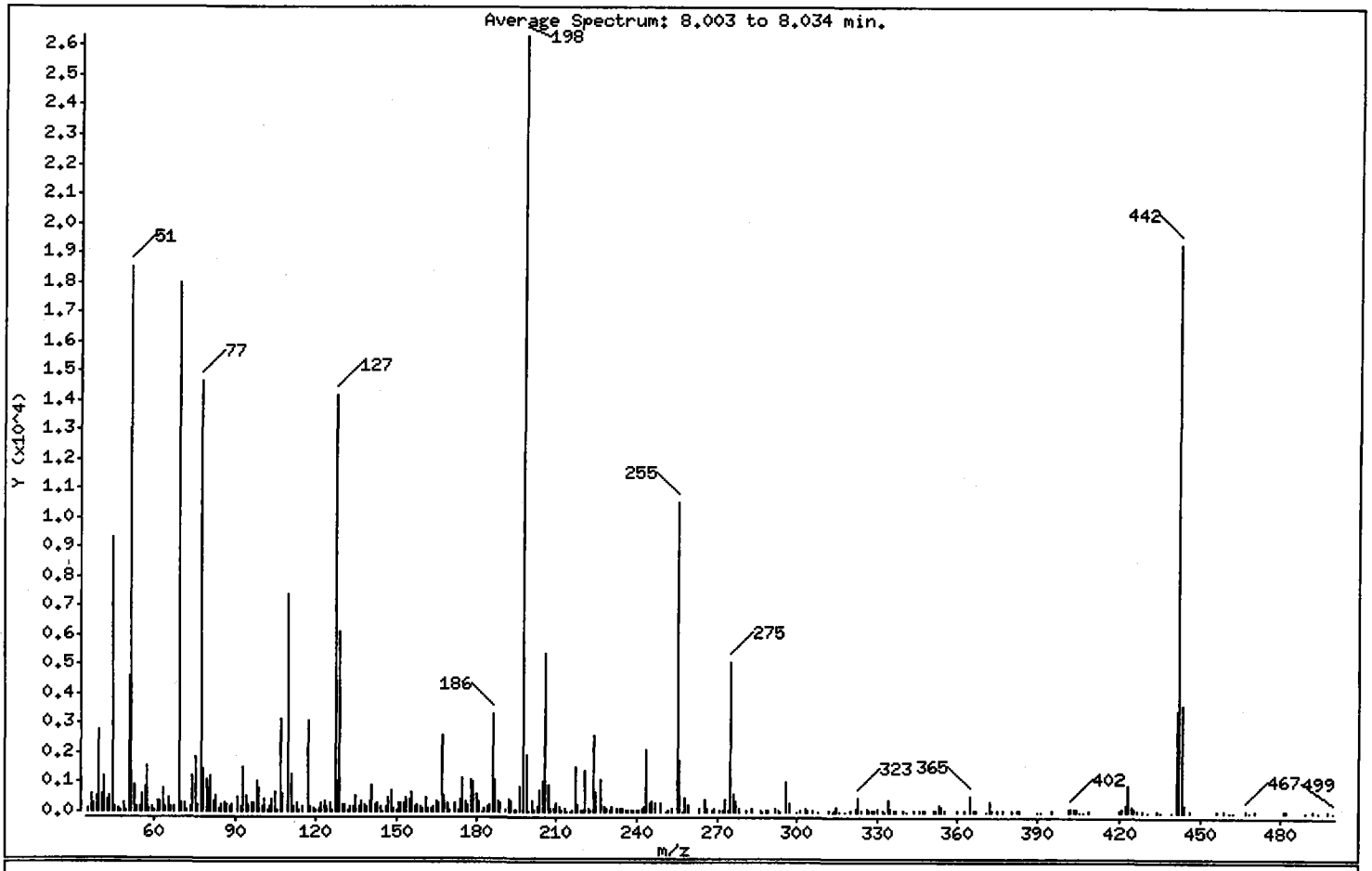
Sample Info: DF0717

Operator: VTS

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	70.31
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	68.31
70	Less than 2.00% of mass 69	1.11 (1.62)
127	25.00 - 75.00% of mass 198	53.89
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.40
275	10.00 - 30.00% of mass 198	19.39
365	Greater than 0.75% of mass 198	2.09
441	Present, but less than mass 443	13.09
442	40.00 - 110.00% of mass 198	73.44
443	15.00 - 24.00% of mass 442	13.72 (18.69)

Data File: /chem3/nt1.i/20090717.b/df0717.d

Date : 17-JUL-2009 13:37

Client ID:

Instrument: nt1.i

Sample Info: DF0717

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df0717.d
Spectrum: Average Spectrum: 8.003 to 8.034 min.
Location of Maximum: 198.00
Number of points: 329

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	98	122.00	277	208.00	148	320.00	38
36.00	633	123.00	367	209.00	110	322.00	109
37.00	314	124.00	204	210.00	315	323.00	495
38.00	568	125.00	327	211.00	188	324.00	52
39.00	2799	126.00	67	212.00	52	326.00	113
40.00	617	127.00	14188	213.00	109	327.00	59
41.00	1219	128.00	1041	214.00	28	328.00	56
42.00	404	129.00	6107	215.00	26	329.00	33
43.00	528	130.00	259	216.00	44	330.00	91
44.00	9305	131.00	269	217.00	1524	332.00	45
45.00	199	132.00	81	218.00	245	333.00	30
46.00	113	133.00	155	219.00	47	334.00	428
47.00	55	134.00	177	220.00	80	335.00	131
48.00	291	135.00	552	221.00	1368	336.00	61
49.00	79	136.00	162	222.00	109	337.00	31
50.00	4596	137.00	346	223.00	87	340.00	88
51.00	18504	138.00	255	224.00	2624	341.00	30
52.00	920	139.00	204	225.00	687	344.00	57
53.00	184	140.00	363	227.00	1111	346.00	82
54.00	172	141.00	921	228.00	198	347.00	50
55.00	619	142.00	234	229.00	108	348.00	36
56.00	833	143.00	291	230.00	81	351.00	59
57.00	1545	144.00	154	231.00	181	352.00	62
58.00	121	145.00	30	233.00	93	353.00	215
59.00	166	146.00	173	234.00	96	354.00	182
60.00	44	147.00	472	235.00	131	355.00	31
61.00	336	148.00	753	236.00	39	360.00	36
62.00	342	149.00	145	237.00	88	363.00	35
63.00	807	150.00	66	238.00	47	365.00	551
64.00	154	151.00	317	239.00	68	366.00	71
65.00	473	152.00	276	240.00	31	367.00	35
66.00	169	153.00	286	241.00	88	371.00	27
67.00	155	154.00	464	242.00	92	372.00	351
69.00	17984	155.00	438	243.00	187	373.00	85
70.00	292	156.00	696	244.00	2108	375.00	40

Data File: /chem3/nt1.i/20090717.b/df0717.d

Date : 17-JUL-2009 13:37

Client ID:

Instrument: nt1.i

Sample Info: DF0717

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df0717.d
Spectrum: Average Spectrum: 8.003 to 8.034 min.
Location of Maximum: 198.00
Number of points: 329

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	297	157.00	194	245.00	273	377.00	31
72.00	58	158.00	242	246.00	390	380.00	66
73.00	202	159.00	160	247.00	275	382.00	35
74.00	1220	160.00	116	249.00	302	383.00	78
75.00	1894	161.00	492	251.00	29	390.00	30
76.00	259	162.00	98	252.00	67	391.00	29
77.00	14648	163.00	96	253.00	128	395.00	36
78.00	1478	164.00	178	255.00	10525	401.00	91
79.00	1105	165.00	383	256.00	1744	402.00	141
80.00	802	166.00	274	257.00	26	403.00	115
81.00	1232	167.00	2596	258.00	484	404.00	130
82.00	383	168.00	558	259.00	224	405.00	28
83.00	537	169.00	328	263.00	93	407.00	30
84.00	131	170.00	58	265.00	394	409.00	31
85.00	261	172.00	301	266.00	95	420.00	36
86.00	279	173.00	68	268.00	33	421.00	132
87.00	245	174.00	395	269.00	140	422.00	269
88.00	154	175.00	1145	271.00	45	423.00	919
89.00	217	176.00	345	272.00	75	424.00	189
91.00	502	177.00	235	273.00	427	425.00	114
92.00	169	178.00	1071	274.00	84	426.00	31
93.00	1531	179.00	1032	275.00	5104	428.00	57
94.00	525	180.00	613	276.00	601	430.00	27
95.00	269	181.00	337	277.00	360	434.00	46
96.00	320	182.00	27	278.00	113	435.00	27
97.00	288	183.00	115	281.00	55	439.00	26
98.00	1032	184.00	166	283.00	120	441.00	3446
99.00	771	185.00	221	286.00	70	442.00	19336
100.00	182	186.00	3310	287.00	28	443.00	3613
101.00	441	187.00	1078	288.00	35	444.00	242
102.00	47	188.00	370	289.00	46	446.00	43
103.00	202	189.00	275	292.00	92	456.00	31
104.00	421	191.00	57	293.00	87	459.00	61
105.00	669	192.00	448	294.00	26	461.00	29
106.00	62	193.00	381	296.00	1003	462.00	25

Data File: /chem3/nt1.i/20090717.b/df0717.d

Date : 17-JUL-2009 13:37

Client ID:

Instrument: nt1.i

Sample Info: DF0717

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df0717.d

Spectrum: Average Spectrum: 8.003 to 8.034 min.

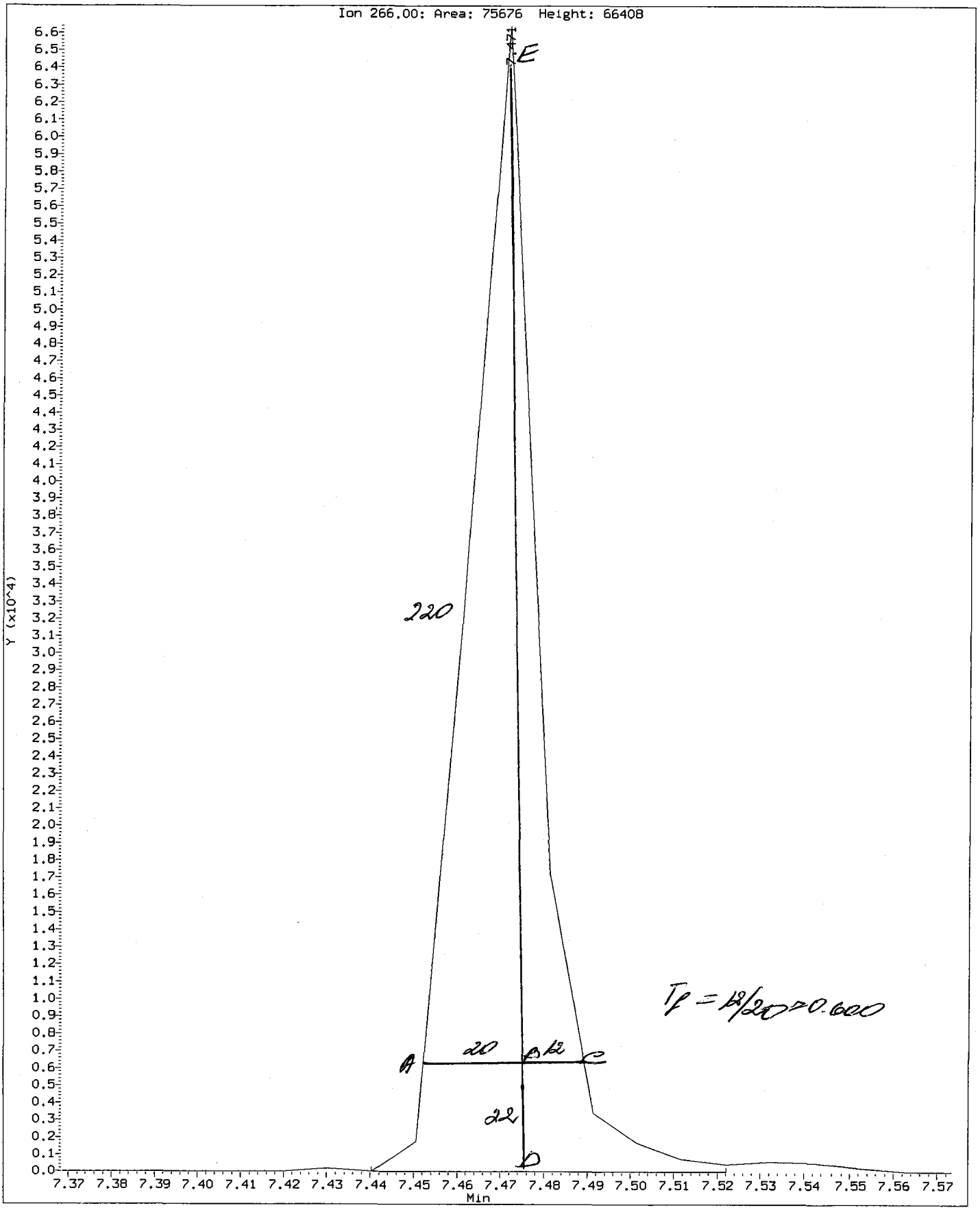
Location of Maximum: 198.00

Number of points: 329

m/z	Y	m/z	Y	m/z	Y	m/z	Y
107.00	3141	194.00	81	297.00	330	467.00	81
108.00	594	195.00	37	300.00	28	468.00	26
110.00	7407	196.00	840	301.00	67	470.00	43
111.00	1271	198.00	26328	303.00	101	481.00	38
112.00	177	199.00	1948	304.00	62	482.00	51
113.00	294	200.00	25	306.00	54	489.00	25
114.00	80	201.00	353	308.00	29	492.00	38
115.00	166	202.00	54	312.00	62	494.00	26
117.00	3081	203.00	162	313.00	30	497.00	55
118.00	172	204.00	742	314.00	51	499.00	29
119.00	122	205.00	1026	315.00	189		
120.00	67	206.00	5404	316.00	28		
121.00	113	207.00	896	318.00	29		

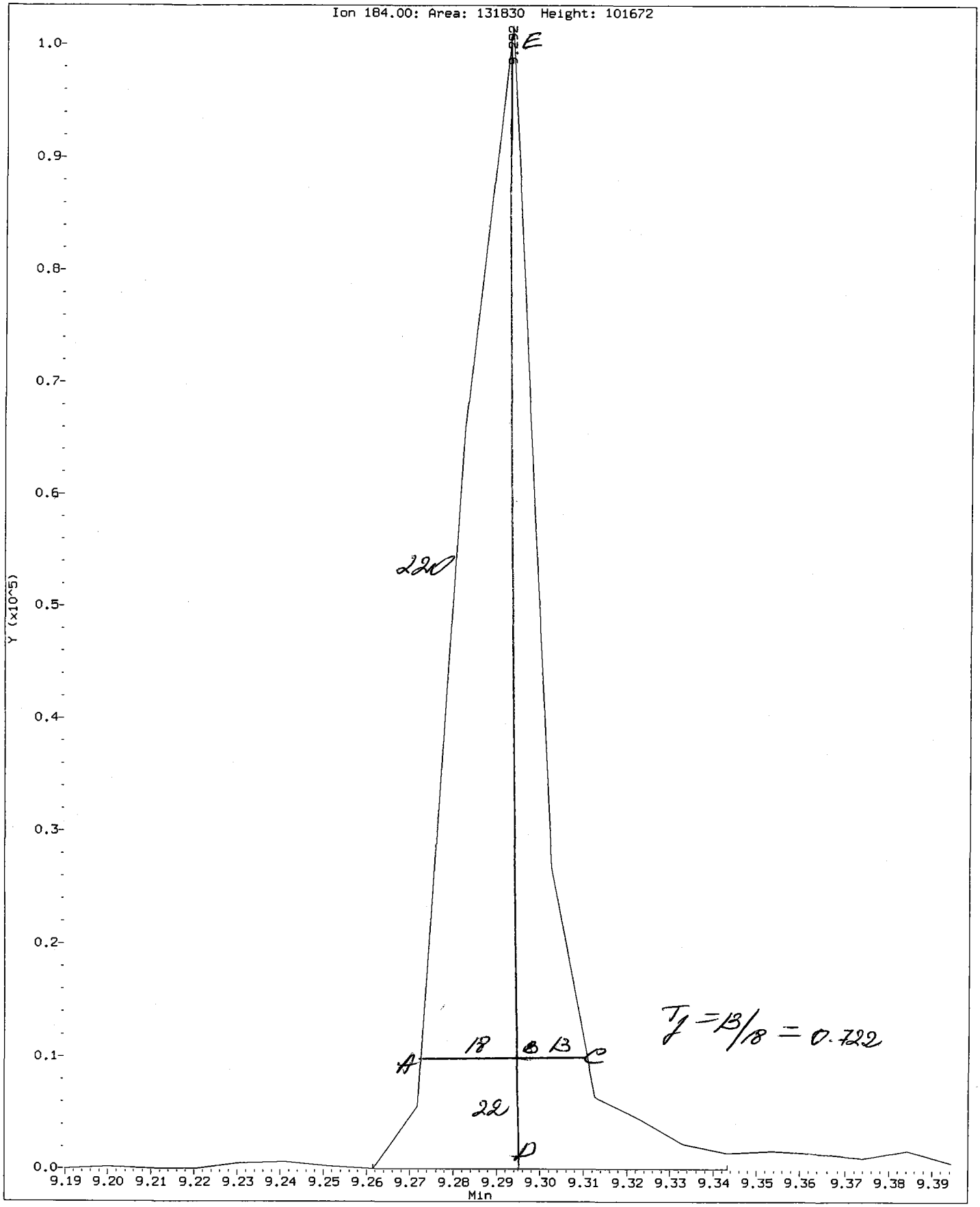
Data File: /chem3/nt1.i/20090717.b/ddt.b/df0717.d
Injection Date: 17-JUL-2009 13:37
Instrument: nt1.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt1.i/20090717.b/ddt.b/df0717.d
Injection Date: 17-JUL-2009 13:37
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt1.i/20090717.b/ddt.b/df0717.d
Method: /chem3/nt1.i/20090717.b/ddt.b/sw846ddt.m
Analysis Date: 17-JUL-2009 13:37

ARI ID: DF0717
Misc:
Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	7.471	75676
Benzidine	9.292	131830
4,4'-DDE	9.609	12981
4,4'-DDD	9.978	30031
4,4'-DDT	10.346	248580

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(\ 12981 + 30031) * 100}{(\ 12981 + 30031 + 248580)}$$

DDT Percent Breakdown = 14.8 %

Data File: /chem3/nt1.i/20090718.b/df0718.d

Date : 18-JUL-2009 10:34

Client ID:

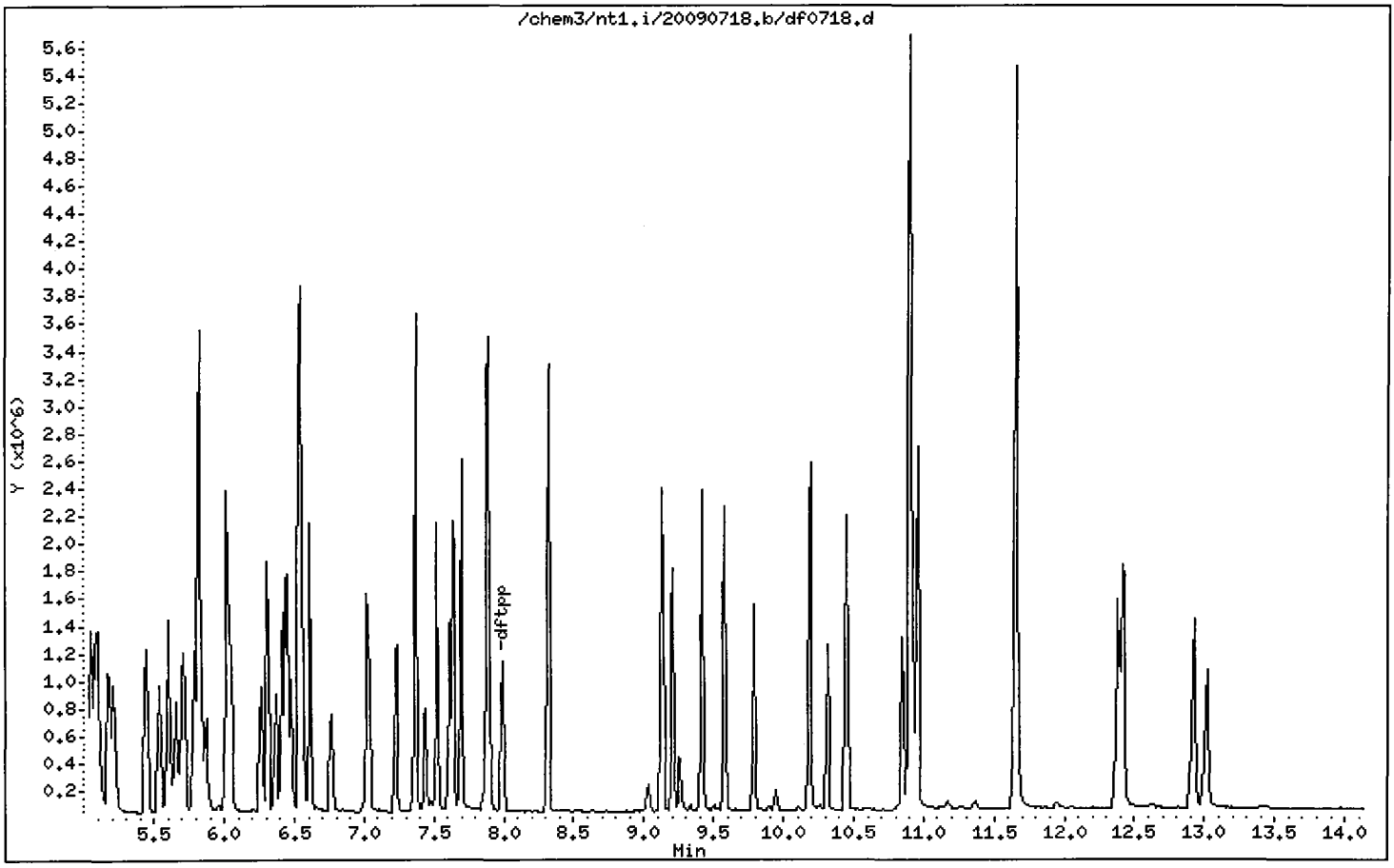
Instrument: nt1.i

Sample Info: DF0718

Operator: VTS

Column phase:

Column diameter: 0.25



Data File: /chem3/nt1.i/20090718.b/df0718.d

Date : 18-JUL-2009 10:34

Client ID:

Instrument: nt1.i

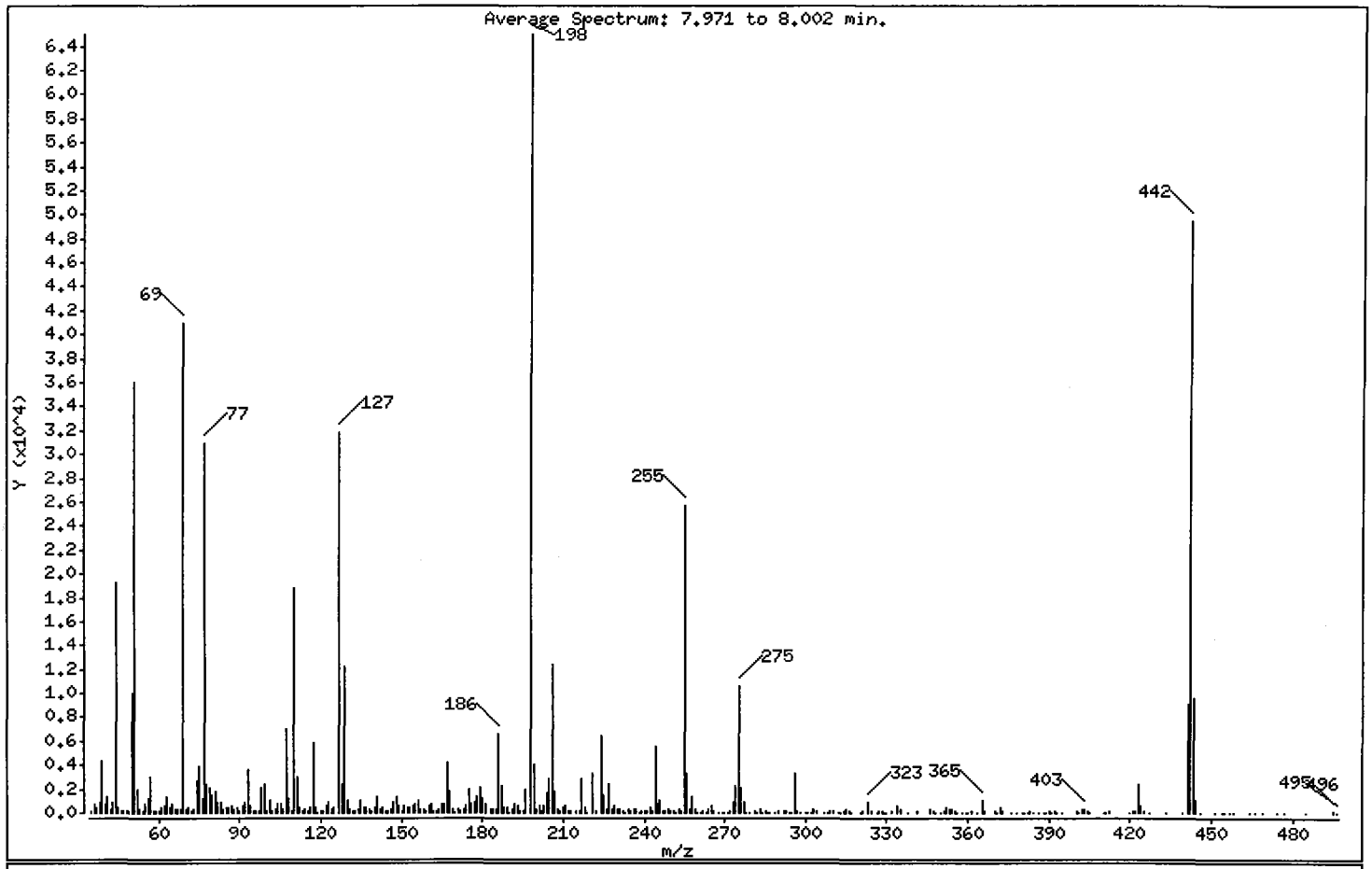
Sample Info: DF0718

Operator: VTS

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	55.39
68	Less than 2.00% of mass 69	0.42 (0.66)
69	Mass 69 relative abundance	63.03
70	Less than 2.00% of mass 69	0.39 (0.62)
127	25.00 - 75.00% of mass 198	48.93
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.14
275	10.00 - 30.00% of mass 198	16.42
365	Greater than 0.75% of mass 198	1.65
441	Present, but less than mass 443	14.00
442	40.00 - 110.00% of mass 198	76.04
443	15.00 - 24.00% of mass 442	14.64 (19.25)

Date : 18-JUL-2009 10:34

Client ID: Instrument: nt1.i

Sample Info: DF0718

Operator: VTS

Column phase: Column diameter: 0.25

Data File: df0718.d
Spectrum: Average Spectrum: 7.971 to 8.002 min.
Location of Maximum: 198.00
Number of points: 355

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	109	124.00	357	217.00	2893	316.00	178
36.00	775	125.00	490	218.00	442	317.00	66
37.00	463	127.00	31800	219.00	53	320.00	35
38.00	860	128.00	2451	221.00	3248	321.00	83
39.00	4318	129.00	12194	222.00	97	323.00	892
40.00	768	130.00	1064	224.00	6468	324.00	206
41.00	1346	131.00	231	225.00	1556	326.00	40
42.00	280	132.00	149	226.00	351	327.00	207
43.00	862	133.00	220	227.00	2359	328.00	141
44.00	19224	134.00	366	228.00	289	329.00	34
45.00	491	135.00	982	229.00	531	330.00	37
46.00	205	136.00	442	230.00	248	332.00	162
47.00	76	137.00	467	231.00	242	334.00	538
48.00	112	138.00	245	232.00	111	335.00	267
49.00	172	139.00	221	233.00	42	338.00	69
50.00	9988	140.00	465	234.00	267	341.00	181
51.00	35992	141.00	1326	235.00	134	346.00	245
52.00	1970	142.00	349	236.00	236	347.00	143
53.00	276	143.00	476	237.00	242	348.00	50
54.00	157	144.00	129	238.00	56	350.00	28
55.00	778	145.00	128	239.00	122	351.00	79
56.00	1169	146.00	288	240.00	104	352.00	439
57.00	2970	147.00	860	241.00	190	353.00	294
58.00	217	148.00	1347	242.00	388	354.00	300
59.00	194	149.00	626	243.00	81	355.00	112
60.00	182	150.00	103	244.00	5536	356.00	36
61.00	505	151.00	540	245.00	706	358.00	28
62.00	571	152.00	396	246.00	1027	359.00	27
63.00	1324	153.00	480	247.00	104	360.00	42
64.00	376	154.00	564	248.00	88	361.00	85
65.00	746	155.00	752	249.00	256	363.00	30
66.00	233	156.00	1002	250.00	106	365.00	1071
67.00	364	157.00	315	251.00	119	366.00	223
68.00	270	158.00	276	252.00	27	370.00	98
69.00	40960	159.00	203	253.00	239	371.00	45

Data File: /chem3/nt1.i/20090718.b/df0718.d

Date : 18-JUL-2009 10:34

Client ID:

Instrument: nt1.i

Sample Info: DF0718

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df0718.d
Spectrum: Average Spectrum: 7.971 to 8.002 min.
Location of Maximum: 198.00
Number of points: 355

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	253	160.00	619	254.00	75	372.00	515
71.00	455	161.00	729	255.00	25720	373.00	165
72.00	188	162.00	193	256.00	3281	376.00	51
73.00	364	163.00	172	257.00	345	378.00	26
74.00	2637	164.00	263	258.00	1319	380.00	33
75.00	3868	165.00	787	259.00	364	381.00	53
76.00	1175	166.00	795	260.00	71	382.00	32
77.00	30928	167.00	4165	261.00	42	383.00	180
78.00	2392	168.00	1733	262.00	157	384.00	30
79.00	2136	169.00	338	263.00	39	386.00	31
80.00	1443	170.00	71	264.00	260	388.00	69
81.00	1743	171.00	244	265.00	593	389.00	58
82.00	960	172.00	203	266.00	134	390.00	150
83.00	933	173.00	257	268.00	35	391.00	53
84.00	297	174.00	591	269.00	30	392.00	101
85.00	459	175.00	1932	270.00	28	393.00	25
86.00	421	176.00	766	271.00	25	395.00	44
87.00	598	177.00	843	272.00	188	400.00	80
88.00	300	178.00	1360	273.00	848	401.00	53
89.00	402	179.00	2146	274.00	2315	402.00	264
90.00	159	180.00	1268	275.00	10668	403.00	272
91.00	651	181.00	798	276.00	2148	404.00	107
92.00	867	183.00	236	277.00	850	405.00	26
93.00	3525	184.00	308	278.00	29	410.00	28
94.00	544	185.00	362	279.00	65	411.00	34
95.00	140	186.00	6622	281.00	119	412.00	91
96.00	223	187.00	2182	282.00	69	420.00	69
97.00	194	188.00	473	283.00	242	421.00	177
98.00	2137	189.00	401	284.00	57	422.00	221
99.00	2444	190.00	72	285.00	112	423.00	2361
100.00	200	191.00	326	286.00	35	424.00	625
101.00	1072	192.00	715	287.00	41	425.00	87
102.00	193	193.00	588	289.00	66	427.00	27
103.00	339	194.00	164	290.00	109	433.00	49
104.00	754	195.00	166	292.00	83	439.00	64

Data File: /chem3/nt1.i/20090718.b/df0718.d

Date : 18-JUL-2009 10:34

Client ID:

Instrument: nt1.i

Sample Info: DF0718

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df0718.d

Spectrum: Average Spectrum: 7.971 to 8.002 min.

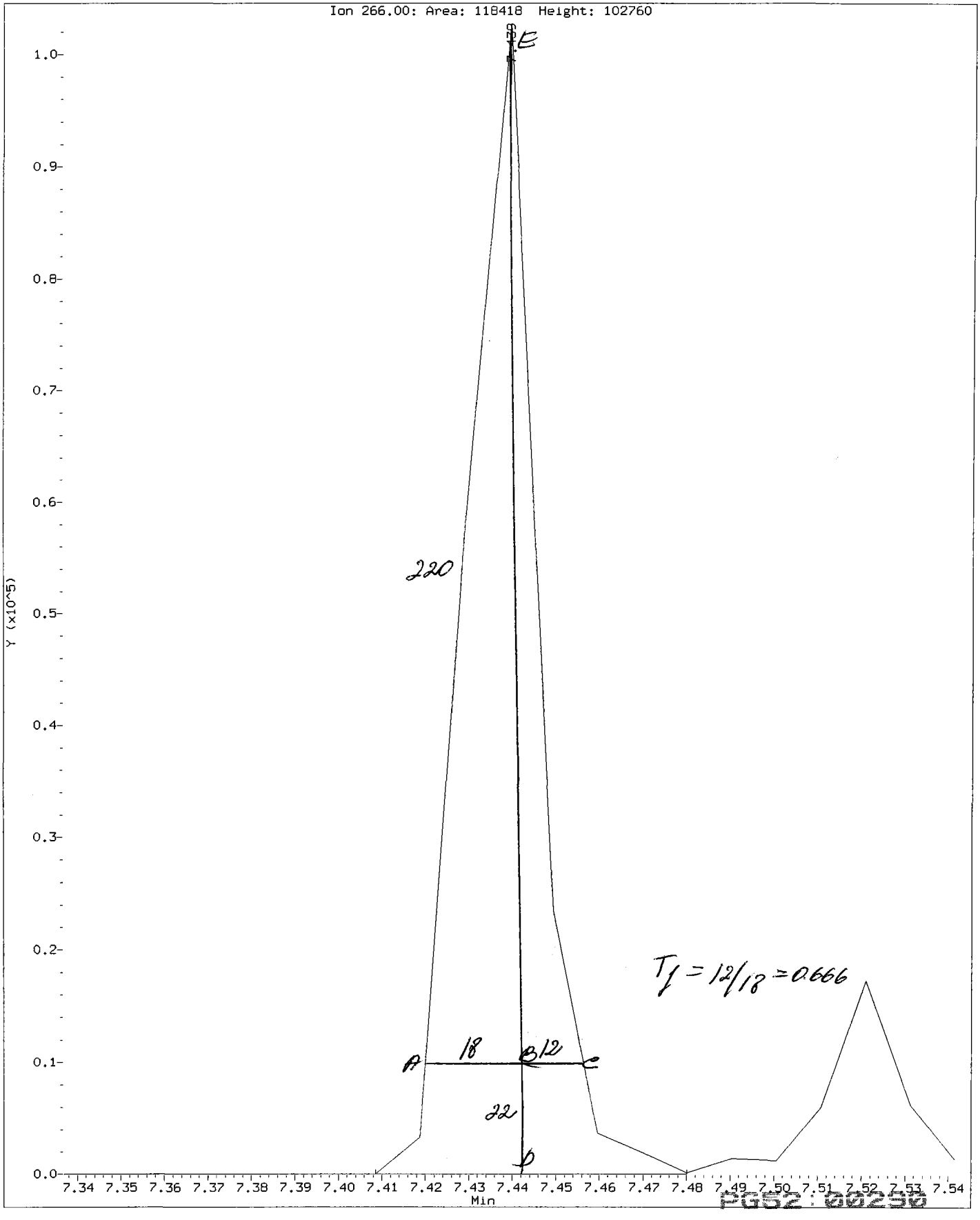
Location of Maximum: 198.00

Number of points: 355

m/z	Y	m/z	Y	m/z	Y	m/z	Y
105.00	732	196.00	2007	293.00	157	441.00	9099
106.00	279	198.00	64984	294.00	33	442.00	49416
107.00	6972	199.00	3991	295.00	43	443.00	9514
108.00	1132	200.00	361	296.00	3351	444.00	1009
109.00	153	201.00	609	297.00	145	446.00	28
110.00	18880	202.00	78	298.00	26	451.00	27
111.00	3006	203.00	612	300.00	34	454.00	36
112.00	428	204.00	1590	301.00	58	455.00	42
113.00	150	205.00	2789	302.00	41	457.00	32
114.00	255	206.00	12412	303.00	318	458.00	60
115.00	209	207.00	1845	304.00	170	464.00	56
116.00	393	208.00	351	307.00	28	466.00	30
117.00	5783	209.00	183	308.00	29	469.00	36
118.00	499	210.00	403	309.00	94	474.00	64
119.00	28	211.00	657	310.00	130	477.00	29
120.00	112	212.00	77	312.00	39	485.00	50
121.00	91	213.00	115	313.00	43	495.00	81
122.00	582	215.00	184	314.00	149	496.00	30
123.00	839	216.00	135	315.00	247		

Data File: /chem3/nt1.i/20090718.b/ddt.b/df0718.d
Injection Date: 18-JUL-2009 10:34
Instrument: nt1.i
Client Sample ID:

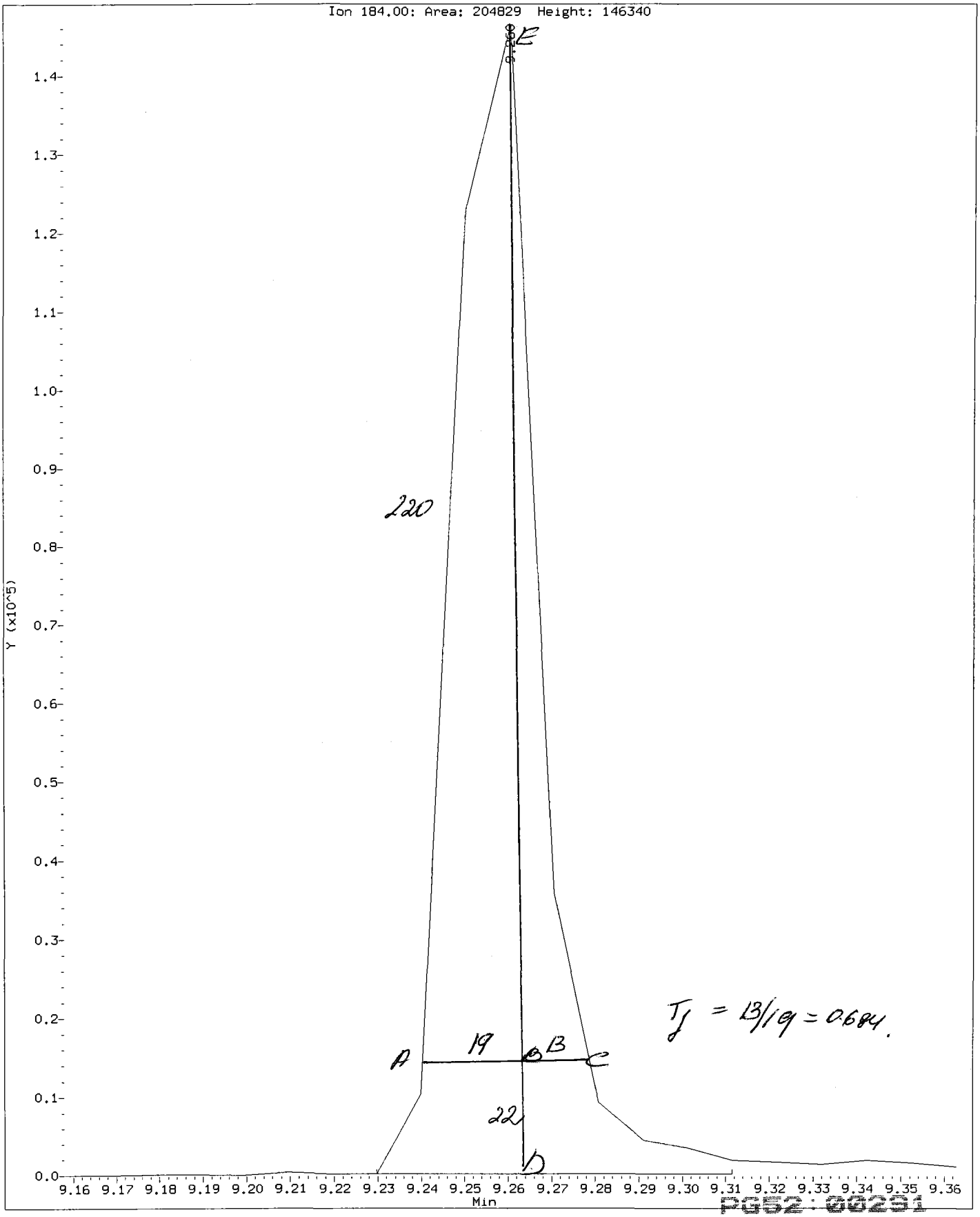
Compound: Pentachlorophenol
CAS Number: 87-86-5



PAGE 00230

Data File: /chem3/nt1.i/20090718.b/ddt.b/df0718.d
Injection Date: 18-JUL-2009 10:34
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt1.i/20090718.b/ddt.b/df0718.d
Method: /chem3/nt1.i/20090718.b/ddt.b/sw846ddt.m
Analysis Date: 18-JUL-2009 10:34

ARI ID: DF0718
Misc:
Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	7.439	118418
Benzidine	9.260	204829
4,4'-DDE	9.578	12843
4,4'-DDD	9.946	31994
4,4'-DDT	10.314	255506

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(\ 12843 + 31994) * 100}{(\ 12843 + 31994 + 255506)}$$

DDT Percent Breakdown = 14.9 %

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: MB-071409
METHOD BLANK

Lab Sample ID: MB-071409
LIMS ID: 09-16502
Matrix: Soil
Data Release Authorized: VTB
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: NA
Date Received: NA

Date Extracted: 07/14/09
Date Analyzed: 07/17/09 22:03
Instrument/Analyst: NT1/YZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	5.0	< 5.0 U
90-12-0	1-Methylnaphthalene	5.0	< 5.0 U
208-96-8	Acenaphthylene	5.0	< 5.0 U
83-32-9	Acenaphthene	5.0	< 5.0 U
86-73-7	Fluorene	5.0	< 5.0 U
85-01-8	Phenanthrene	5.0	< 5.0 U
120-12-7	Anthracene	5.0	< 5.0 U
206-44-0	Fluoranthene	5.0	< 5.0 U
129-00-0	Pyrene	5.0	< 5.0 U
56-55-3	Benzo(a)anthracene	5.0	< 5.0 U
218-01-9	Chrysene	5.0	< 5.0 U
205-99-2	Benzo(b)fluoranthene	5.0	< 5.0 U
207-08-9	Benzo(k)fluoranthene	5.0	< 5.0 U
50-32-8	Benzo(a)pyrene	5.0	< 5.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	< 5.0 U
53-70-3	Dibenz(a,h)anthracene	5.0	< 5.0 U
191-24-2	Benzo(g,h,i)perylene	5.0	< 5.0 U
132-64-9	Dibenzofuran	5.0	< 5.0 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	82.7%
d14-Dibenzo(a,h)anthracen	90.0%

12 7/18/09

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20090717.b/pg52mb1.d
Lab Smp Id: PG52MBS1 Client Smp ID: PG52MBS1
Inj Date : 17-JUL-2009 22:03
Operator : VTS Inst ID: nt1.i
Smp Info : PG52MBS1
Misc Info : 09-16502
Comment : 1ul Injection
Method : /chem3/nt1.i/20090717.b/simpna.m
Meth Date : 18-Jul-2009 10:30 yev Quant Type: ISTD
Cal Date : 11-JUL-2009 14:37 Cal File: ic0711f.d
Als bottle: 19 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	10.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	1 Naphthalene-d8	136	6.474	6.474	(1.000)	401958	2.00000	
	2 Naphthalene	128	Compound Not Detected.					
$	3 2-Methylnaphthalene-d10	152	7.224	7.218	(1.116)	220349	2.48196	124.1
	4 2-Methylnaphthalene	142	Compound Not Detected.					
	5 1-Methylnaphthalene	142	Compound Not Detected.					
	7 Acenaphthylene	152	Compound Not Detected.					
*	8 Acenaphthene-d10	164	8.506	8.506	(1.000)	188289	2.00000	
	9 Acenaphthene	153	Compound Not Detected.					
	10 Dibenzofuran	168	Compound Not Detected.					
	11 Fluorene	166	Compound Not Detected.					
*	15 Phenanthrene-d10	188	10.302	10.302	(1.000)	283792	2.00000	
	16 Phenanthrene	178	Compound Not Detected.					
	17 Anthracene	178	Compound Not Detected.					
	19 Fluoranthene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	Compound Not Detected.					
	22 Benzo(a)anthracene	228	Compound Not Detected.					
*	23 Chrysene-d12	240	13.599	13.599	(1.000)	216124	2.00000	
	24 Chrysene	228	Compound Not Detected.					
	28 Benzo(b)fluoranthene	252	Compound Not Detected.					
	29 Benzo(k)fluoranthene	252	Compound Not Detected.					
	30 Benzo(a)pyrene	252	Compound Not Detected.					
*	31 Perylene-d12	264	15.276	15.277	(1.000)	194790	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
$	32 Dibenz(a,h)anthrancene-d14	292	16.594	16.594	(1.086)	129905	2.70010	135.0
	34 Dibenz(a,h)anthracene	278	Compound Not Detected.					
	35 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: pg52mb1.d
Lab Smp Id: PG52MBS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20090717.b/simpna.m
Misc Info: 09-16502

Calibration Date: 17-JUL-2009
Calibration Time: 13:57
Client Smp ID: PG52MBS1
Level: LOW
Sample Type: Solid

Test Mode:
Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	463169	231584	926338	401958	-13.22
8 Acenaphthene-d10	213444	106722	426888	188289	-11.79
15 Phenanthrene-d10	326462	163231	652924	283792	-13.07
23 Chrysene-d12	224038	112019	448076	216124	-3.53
31 Perylene-d12	206230	103115	412460	194790	-5.55

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.47	5.97	6.97	6.47	-0.01
8 Acenaphthene-d10	8.51	8.01	9.01	8.51	-0.01
15 Phenanthrene-d10	10.30	9.80	10.80	10.30	0.00
23 Chrysene-d12	13.60	13.10	14.10	13.60	0.00
31 Perylene-d12	15.28	14.78	15.78	15.28	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

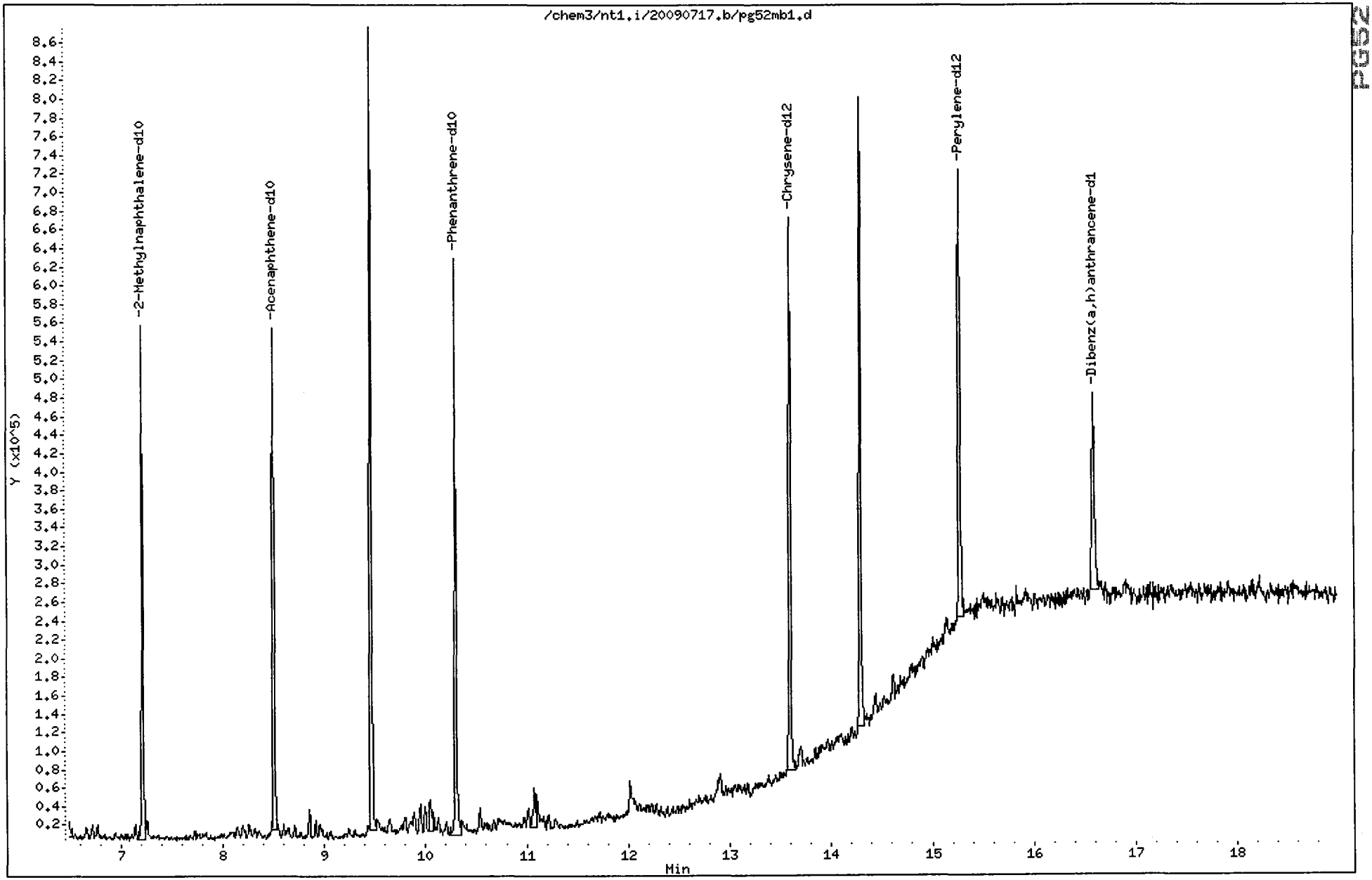
Client Name: Anchor QEA
Sample Matrix: SOLID
Lab Smp Id: PG52MBS1
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: pna1mn.sub
Method File: /chem3/nt1.i/20090717.b/simpna.m
Misc Info: 09-16502

Client SDG: PG52
Fraction: SV
Client Smp ID: PG52MBS1
Operator: VTS
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	150.0	124.1	82.73	34-100
$ 32 Dibenz(a,h)anthran	150.0	135.0	90.00	10-117

Data File: /chem3/nt1.i/20090717.b/pg52mb1.d
Date : 17-JUL-2009 22:03
Client ID: PG52MBS1
Sample Info: PG52MBS1
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: AHA-01-1NW(0-2.5)
MATRIX SPIKE

Lab Sample ID: PG52Q
LIMS ID: 09-16502
Matrix: Soil
Data Release Authorized: VTS
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 07/14/09
Date Analyzed: 07/18/09 00:35
Instrument/Analyst: NT1/YZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.8 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 11.6%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.6	---
91-57-6	2-Methylnaphthalene	4.6	---
90-12-0	1-Methylnaphthalene	4.6	---
208-96-8	Acenaphthylene	4.6	---
83-32-9	Acenaphthene	4.6	---
86-73-7	Fluorene	4.6	---
85-01-8	Phenanthrene	4.6	---
120-12-7	Anthracene	4.6	---
206-44-0	Fluoranthene	4.6	---
129-00-0	Pyrene	4.6	---
56-55-3	Benzo(a)anthracene	4.6	---
218-01-9	Chrysene	4.6	---
205-99-2	Benzo(b)fluoranthene	4.6	---
207-08-9	Benzo(k)fluoranthene	4.6	---
50-32-8	Benzo(a)pyrene	4.6	---
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	---
53-70-3	Dibenz(a,h)anthracene	4.6	---
191-24-2	Benzo(g,h,i)perylene	4.6	---
132-64-9	Dibenzofuran	4.6	---

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	83.7%
d14-Dibenzo(a,h)anthracen	84.0%

YZ 7/18/09

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20090717.b/pg52qms.d
Lab Smp Id: PG52QMS Client Smp ID: AHA-01-1NW(0-2. MS
Inj Date : 18-JUL-2009 00:35
Operator : VTS Inst ID: nt1.i
Smp Info : PG52QMS
Misc Info : 09-16502
Comment : 1ul Injection
Method : /chem3/nt1.i/20090717.b/simpna.m
Meth Date : 18-Jul-2009 10:30 yev Quant Type: ISTD
Cal Date : 11-JUL-2009 14:37 Cal File: ic0711f.d
Als bottle: 25 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	12.20000	Weight of sample extracted (g)
M	11.60000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
*	1 Naphthalene-d8	136	6.476	6.474	(1.000)	478308	2.00000	
	2 Naphthalene	128	6.499	6.498	(1.004)	583158	2.77350	128.6
$	3 2-Methylnaphthalene-d10	152	7.220	7.218	(1.115)	265502	2.51318	116.5
	4 2-Methylnaphthalene	142	7.256	7.260	(1.120)	313984	2.68810	124.6
	5 1-Methylnaphthalene	142	7.386	7.384	(1.140)	294584	2.55187	118.3
	7 Acenaphthylene	152	8.331	8.329	(0.979)	986533	5.92473	274.7(R)
*	8 Acenaphthene-d10	164	8.508	8.506	(1.000)	215390	2.00000	
	9 Acenaphthene	153	8.549	8.548	(1.005)	310371	2.97323	137.8
	10 Dibenzofuran	168	8.733	8.737	(1.026)	437017	2.88935	134.0
	11 Fluorene	166	9.152	9.156	(1.076)	391381	3.63209	168.4(R)
*	15 Phenanthrene-d10	188	10.304	10.302	(1.000)	332547	2.00000	
	16 Phenanthrene	178	10.334	10.332	(1.003)	1144463	7.42174	344.1(R)
	17 Anthracene	178	10.387	10.391	(1.008)	651429	4.23636	196.4(R)
	19 Fluoranthene	202	11.822	11.815	(1.147)	2397476	16.8784	782.5(R)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.106	12.098	(0.890)	3598251	21.5674 E	999.9(R)
	22 Benzo(a)anthracene	228	13.583	13.581	(0.999)	1612167	13.7596 E	637.9(R)
*	23 Chrysene-d12	240	13.601	13.599	(1.000)	249121	2.00000	
	24 Chrysene	228	13.636	13.634	(1.003)	1875193	15.2942 E	709.1(R)
	28 Benzo(b)fluoranthene	252	14.853	14.846	(0.972)	1391250	11.8872 E	551.1(R)
	29 Benzo(k)fluoranthene	252	14.877	14.869	(0.974)	1567213	12.4850 E	578.8(R)
	30 Benzo(a)pyrene	252	15.220	15.218	(0.996)	1637954	16.6384 E	771.4(R)
*	31 Perylene-d12	264	15.279	15.277	(1.000)	233992	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	16.649	16.648	(1.090)	669322	6.67449	309.4(R)
$	32 Dibenz(a,h)anthrancene-d14	292	16.596	16.594	(1.086)	145634	2.51990	116.8
	34 Dibenz(a,h)anthracene	278	16.643	16.642	(1.089)	359142	4.73777	219.7(R)
	35 Benzo(g,h,i)perylene	276	17.045	17.043	(1.116)	543956	5.79955	268.9(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: pg52qms.d
Lab Smp Id: PG52QMS
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20090717.b/simpna.m
Misc Info: 09-16502

Calibration Date: 17-JUL-2009
Calibration Time: 13:57
Client Smp ID: AHA-01-1NW(0-2. MS
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	463169	231584	926338	478308	3.27
8 Acenaphthene-d10	213444	106722	426888	215390	0.91
15 Phenanthrene-d10	326462	163231	652924	332547	1.86
23 Chrysene-d12	224038	112019	448076	249121	11.20
31 Perylene-d12	206230	103115	412460	233992	13.46

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.47	5.97	6.97	6.48	0.03
8 Acenaphthene-d10	8.51	8.01	9.01	8.51	0.02
15 Phenanthrene-d10	10.30	9.80	10.80	10.30	0.02
23 Chrysene-d12	13.60	13.10	14.10	13.60	0.01
31 Perylene-d12	15.28	14.78	15.78	15.28	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA
Sample Matrix: SOLID
Lab Smp Id: PG52QMS
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: pna1mn.sub
Method File: /chem3/nt1.i/20090717.b/simpna.m
Misc Info: 09-16502

Client SDG: PG52
Fraction: SV
Client Smp ID: AHA-01-1NW(0-2. MS
Operator: VTS
SampleType: MS
Quant Type: ISTD

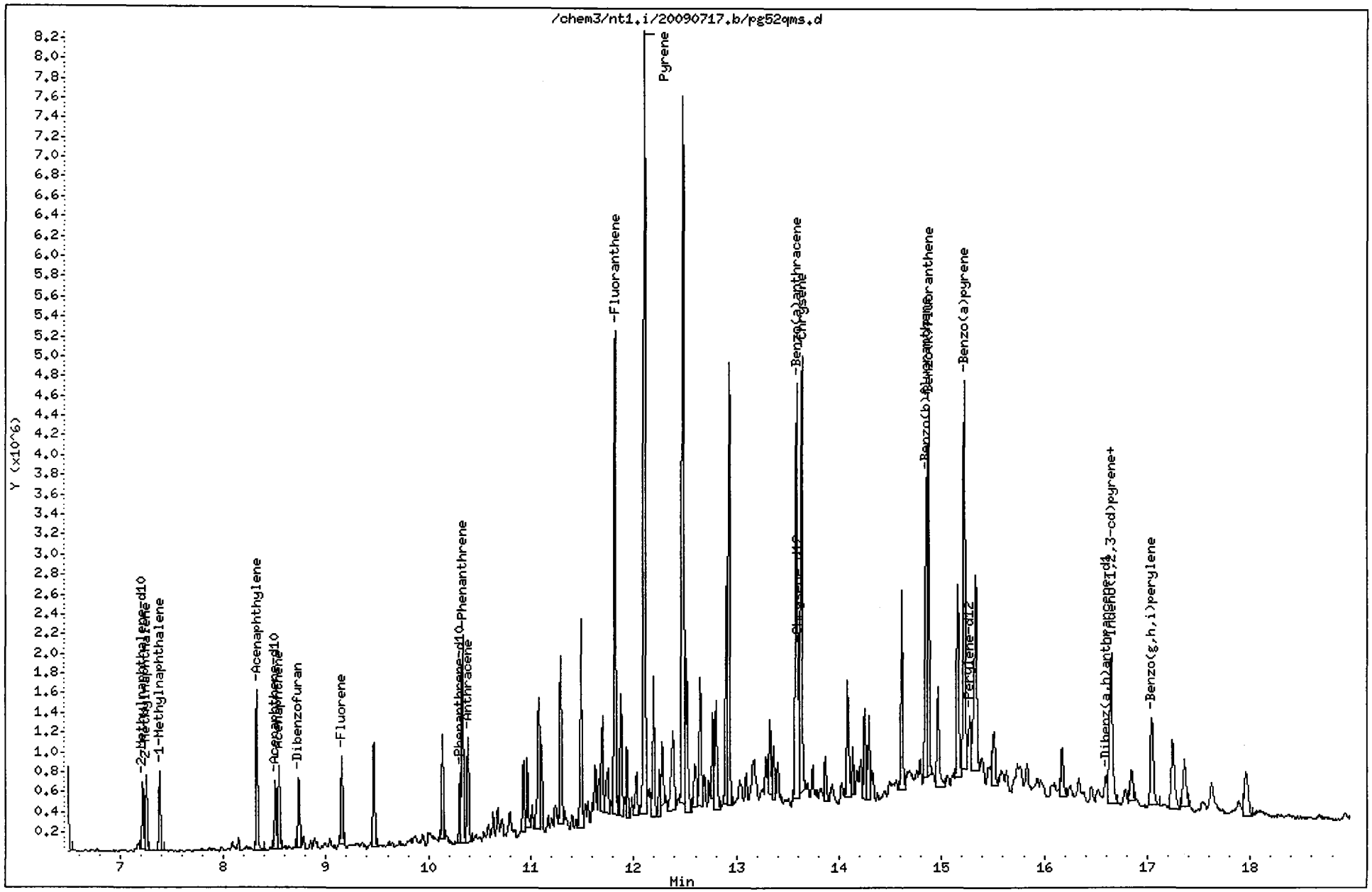
SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
2 Naphthalene	139.1	128.6	92.45	39-100
4 2-Methylnaphthalen	139.1	124.6	89.60	39-100
5 1-Methylnaphthalen	139.1	118.3	85.06	30-160
7 Acenaphthylene	139.1	274.7	197.49*	37-100
9 Acenaphthene	139.1	137.8	99.11	42-100
10 Dibenzofuran	139.1	134.0	96.31	46-100
11 Fluorene	139.1	168.4	121.07*	49-101
16 Phenanthrene	139.1	344.1	247.39*	55-101
17 Anthracene	139.1	196.4	141.21*	47-102
19 Fluoranthene	139.1	782.5	562.61*	60-106
20 Pyrene	139.1	999.9	718.91*	55-110
22 Benzo(a)anthracene	139.1	637.9	458.65*	56-104
24 Chrysene	139.1	709.1	509.81*	58-104
28 Benzo(b)fluoranthe	139.1	551.1	396.24*	51-126
29 Benzo(k)fluoranthe	139.1	578.8	416.17*	55-123
30 Benzo(a)pyrene	139.1	771.4	554.61*	32-110
33 Indeno(1,2,3-cd)py	139.1	309.4	222.48*	50-114
34 Dibenz(a,h)anthrac	139.1	219.7	157.93*	42-121
35 Benzo(g,h,i)peryle	139.1	268.9	193.32*	50-113

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	139.1	116.5	83.77	34-100
$ 32 Dibenz(a,h)anthran	139.1	116.8	84.00	10-117

Data File: /chem3/nt1.i/20090717.b/pg52qms.d
Date : 18-JUL-2009 00:35
Client ID: AHA-01-1NW(0-2. MS
Sample Info: PG52QMS
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

PG52:66961



Data File: /chem3/nt1.i/20090717.b/pg52qms.d

Date : 18-JUL-2009 00:35

Client ID: AHA-01-1NW(0-2. MS

Instrument: nt1.i

Sample Info: PG52QMS

Volume Injected (uL): 1.0

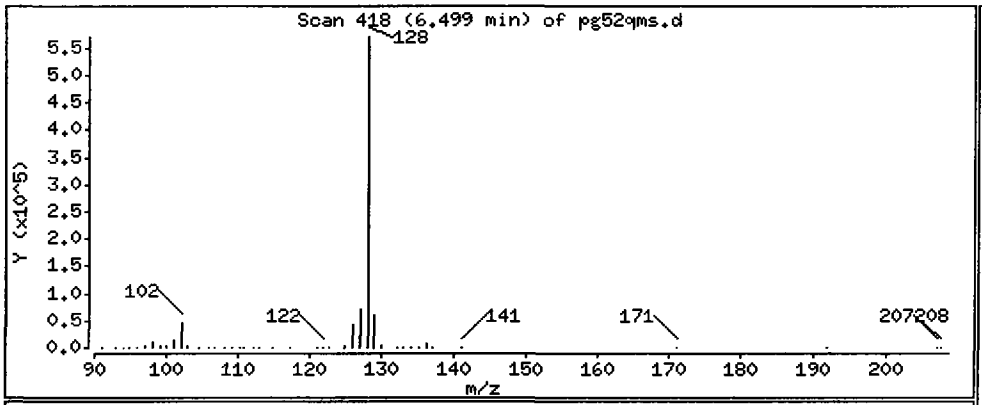
Operator: VTS

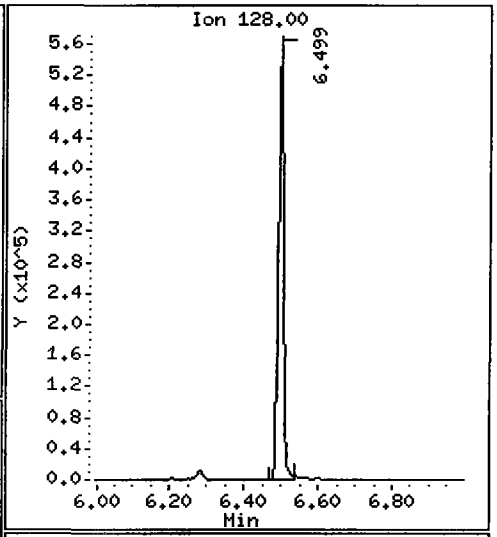
Column phase: ZB-5msi

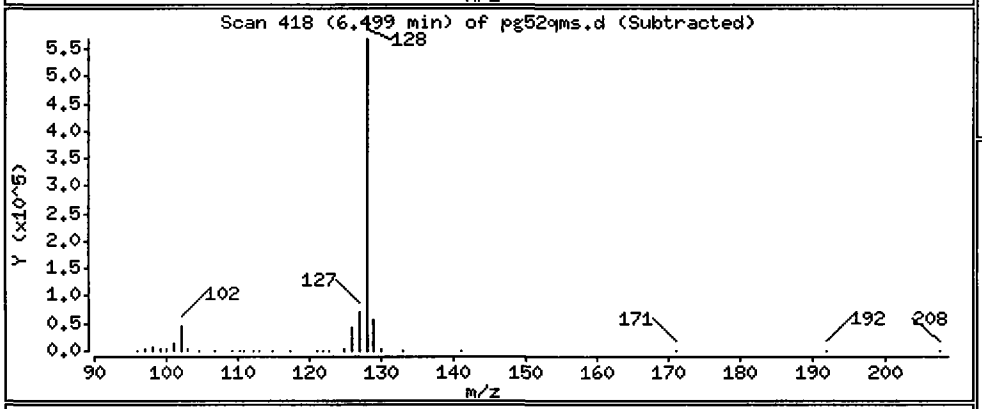
Column diameter: 0.25

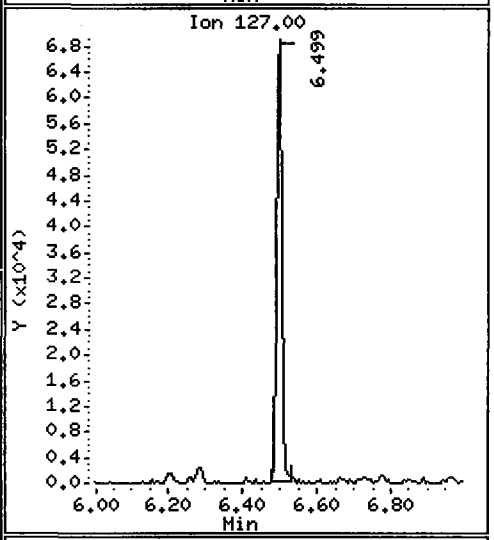
2 Naphthalene

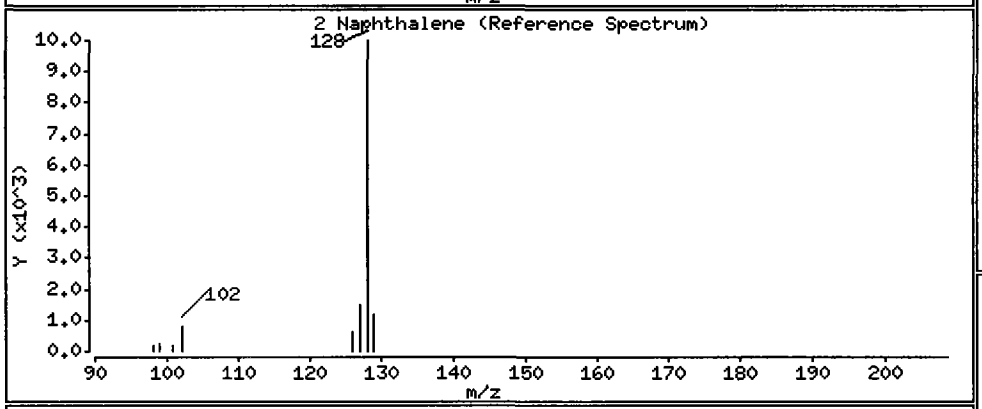
Concentration: 128.6 ug/kg

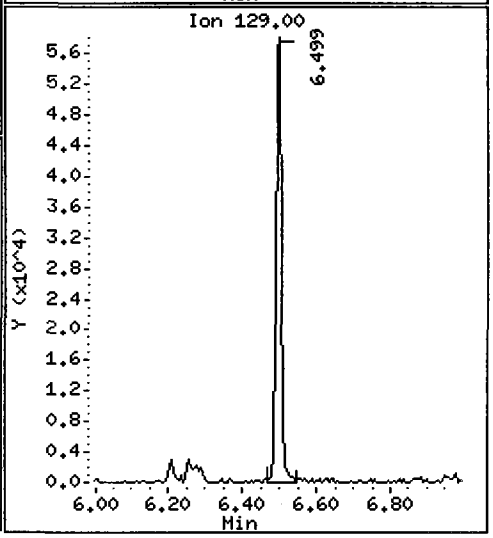


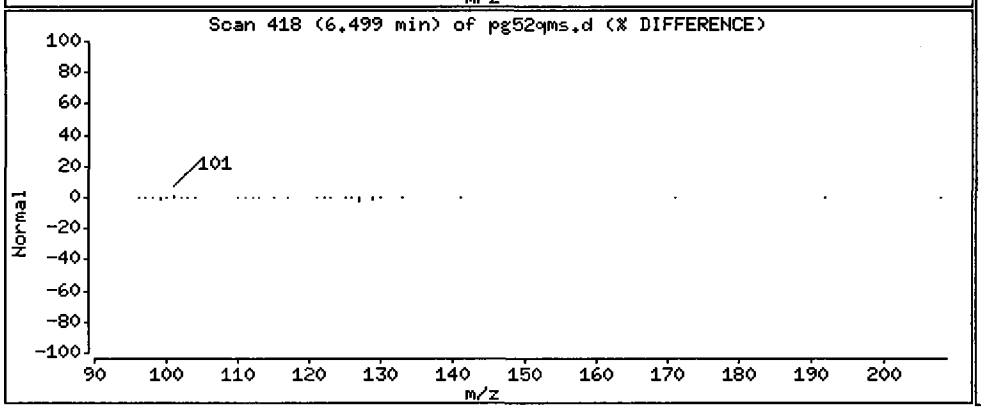












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Page 1 of 1

Sample ID: AHA-01-1NW(0-2.5)
MATRIX SPIKE DUPLICATE

Lab Sample ID: PG52Q
LIMS ID: 09-16502
Matrix: Soil
Data Release Authorized: VJS
Reported: 07/18/09

QC Report No: PG52-Anchor QEA
Project: Eddon Boatyard
Event: NA
Date Sampled: 07/10/09
Date Received: 07/10/09

Date Extracted: 07/14/09
Date Analyzed: 07/18/09 01:00
Instrument/Analyst: NT1/YZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.8 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 11.6%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	4.6	---
91-57-6	2-Methylnaphthalene	4.6	---
90-12-0	1-Methylnaphthalene	4.6	---
208-96-8	Acenaphthylene	4.6	---
83-32-9	Acenaphthene	4.6	---
86-73-7	Fluorene	4.6	---
85-01-8	Phenanthrene	4.6	---
120-12-7	Anthracene	4.6	---
206-44-0	Fluoranthene	4.6	---
129-00-0	Pyrene	4.6	---
56-55-3	Benzo(a)anthracene	4.6	---
218-01-9	Chrysene	4.6	---
205-99-2	Benzo(b)fluoranthene	4.6	---
207-08-9	Benzo(k)fluoranthene	4.6	---
50-32-8	Benzo(a)pyrene	4.6	---
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	---
53-70-3	Dibenz(a,h)anthracene	4.6	---
191-24-2	Benzo(g,h,i)perylene	4.6	---
132-64-9	Dibenzofuran	4.6	---

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	84.7%
d14-Dibenzo(a,h)anthracen	84.3%

YZ 7/18/09

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20090717.b/pg52qmsd.d
Lab Smp Id: PG52QMSD Client Smp ID: AHA-01-1NW(0-2. MSD
Inj Date : 18-JUL-2009 01:00
Operator : VTS Inst ID: nt1.i
Smp Info : PG52QMSD
Misc Info : 09-16502
Comment : 1ul Injection
Method : /chem3/nt1.i/20090717.b/simpna.m
Meth Date : 18-Jul-2009 10:30 yev Quant Type: ISTD
Cal Date : 11-JUL-2009 14:37 Cal File: ic0711f.d
Als bottle: 26 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	12.20000	Weight of sample extracted (g)
M	11.60000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
*	1 Naphthalene-d8	136	6.474	6.474	(1.000)	532370	2.00000	
	2 Naphthalene	128	6.498	6.498	(1.004)	635250	2.71444	125.8
$	3 2-Methylnaphthalene-d10	152	7.225	7.218	(1.116)	298646	2.53984	117.8
	4 2-Methylnaphthalene	142	7.260	7.260	(1.121)	352085	2.70819	125.6
	5 1-Methylnaphthalene	142	7.384	7.384	(1.141)	332087	2.58461	119.8
	7 Acenaphthylene	152	8.330	8.329	(0.979)	1031636	5.44197	252.3(R)
*	8 Acenaphthene-d10	164	8.507	8.506	(1.000)	245218	2.00000	
	9 Acenaphthene	153	8.548	8.548	(1.005)	332851	2.80072	129.8
	10 Dibenzofuran	168	8.737	8.737	(1.027)	485348	2.81857	130.7
	11 Fluorene	166	9.157	9.156	(1.076)	418110	3.40816	158.0(R)
*	15 Phenanthrene-d10	188	10.303	10.302	(1.000)	362774	2.00000	
	16 Phenanthrene	178	10.332	10.332	(1.003)	1160949	6.90135	320.0(R)
	17 Anthracene	178	10.391	10.391	(1.009)	659333	3.93050	182.2(R)
	19 Fluoranthene	202	11.821	11.815	(1.147)	2168634	13.9952 E	648.8(R)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	20 Pyrene	202	12.105	12.098	(0.890)	3286176	18.6658 E	865.4(R)
	22 Benzo(a)anthracene	228	13.582	13.581	(0.999)	1459946	11.8082 E	547.4(R)
*	23 Chrysene-d12	240	13.600	13.599	(1.000)	262882	2.00000	
	24 Chrysene	228	13.635	13.634	(1.003)	1692524	13.0817 E	606.5(R)
	28 Benzo(b)fluoranthene	252	14.852	14.846	(0.972)	1282139	10.9230 E	506.4(R)
	29 Benzo(k)fluoranthene	252	14.876	14.869	(0.974)	1427128	11.3359 E	525.5(R)
	30 Benzo(a)pyrene	252	15.218	15.218	(0.996)	1455163	14.7386 E	683.3(R)
*	31 Perylene-d12	264	15.277	15.277	(1.000)	234676	2.00000	
	33 Indeno(1,2,3-cd)pyrene	276	16.654	16.648	(1.090)	625230	6.21663 E	288.2(R)
$	32 Dibenz(a,h)anthrancene-d14	292	16.595	16.594	(1.086)	146679	2.53058	117.3
	34 Dibenz(a,h)anthracene	278	16.642	16.642	(1.089)	325854	4.28611	198.7(R)
	35 Benzo(g,h,i)perylene	276	17.044	17.043	(1.116)	498973	5.30444	245.9(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: pg52qmsd.d
Lab Smp Id: PG52QMSD
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20090717.b/simpna.m
Misc Info: 09-16502

Calibration Date: 17-JUL-2009
Calibration Time: 13:57
Client Smp ID: AHA-01-1NW(0-2. MSD
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	463169	231584	926338	532370	14.94
8 Acenaphthene-d10	213444	106722	426888	245218	14.89
15 Phenanthrene-d10	326462	163231	652924	362774	11.12
23 Chrysene-d12	224038	112019	448076	262882	17.34
31 Perylene-d12	206230	103115	412460	234676	13.79

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.47	5.97	6.97	6.47	0.01
8 Acenaphthene-d10	8.51	8.01	9.01	8.51	0.01
15 Phenanthrene-d10	10.30	9.80	10.80	10.30	0.00
23 Chrysene-d12	13.60	13.10	14.10	13.60	0.00
31 Perylene-d12	15.28	14.78	15.78	15.28	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA
Sample Matrix: SOLID
Lab Smp Id: PG52QMSD
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: pna1mn.sub
Method File: /chem3/nt1.i/20090717.b/simpna.m
Misc Info: 09-16502

Client SDG: PG52
Fraction: SV
Client Smp ID: AHA-01-1NW(0-2. MSD
Operator: VTS
SampleType: MS
Quant Type: ISTD

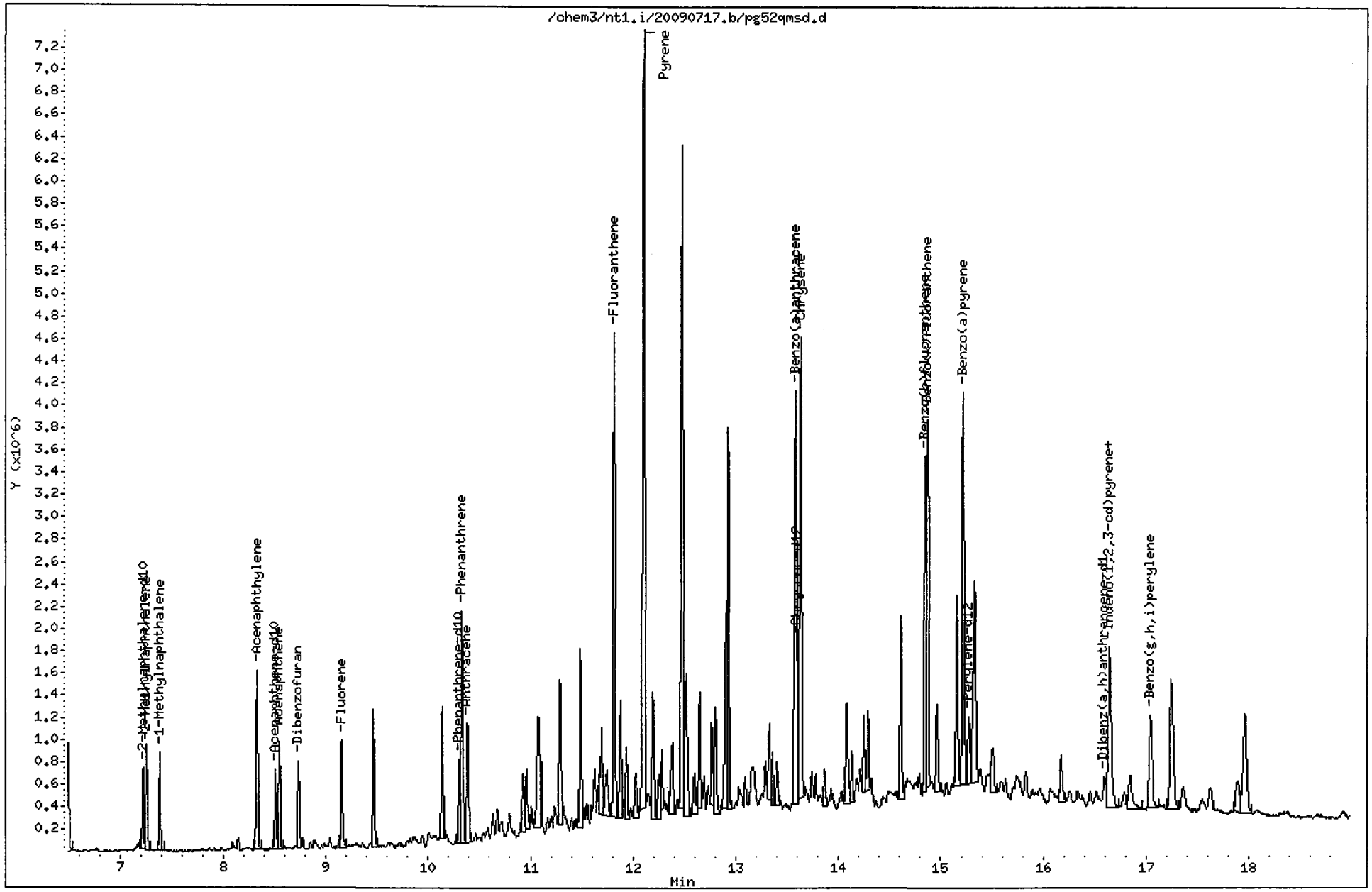
SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
2 Naphthalene	139.1	125.8	90.48	39-100
4 2-Methylnaphthalen	139.1	125.6	90.27	39-100
5 1-Methylnaphthalen	139.1	119.8	86.15	30-160
7 Acenaphthylene	139.1	252.3	181.40*	37-100
9 Acenaphthene	139.1	129.8	93.36	42-100
10 Dibenzofuran	139.1	130.7	93.95	46-100
11 Fluorene	139.1	158.0	113.61*	49-101
16 Phenanthrene	139.1	320.0	230.05*	55-101
17 Anthracene	139.1	182.2	131.02*	47-102
19 Fluoranthene	139.1	648.8	466.51*	60-106
20 Pyrene	139.1	865.4	622.19*	55-110
22 Benzo(a)anthracene	139.1	547.4	393.61*	56-104
24 Chrysene	139.1	606.5	436.06*	58-104
28 Benzo(b)fluoranthe	139.1	506.4	364.10*	51-126
29 Benzo(k)fluoranthe	139.1	525.5	377.86*	55-123
30 Benzo(a)pyrene	139.1	683.3	491.29*	32-110
33 Indeno(1,2,3-cd)py	139.1	288.2	207.22*	50-114
34 Dibenz(a,h)anthrac	139.1	198.7	142.87*	42-121
35 Benzo(g,h,i)peryle	139.1	245.9	176.81*	50-113

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	139.1	117.8	84.66	34-100
$ 32 Dibenz(a,h)anthran	139.1	117.3	84.35	10-117

Data File: /chem3/nt1.i/20090717.b/pg52qmsd.d
Date : 18-JUL-2009 01:00
Client ID: AHA-01-1NW(0-2. MSD
Sample Info: PG52QMSD
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

PG52:20911



YZ 7/18/09

Analytical Resources, Inc.

Polynuclear Aromatic Hydrocarbons/Phthalates by Selected Ion Monitoring

Data file : /chem3/nt1.i/20090717.b/pg52sb1.d
Lab Smp Id: PG52LCSS1 Client Smp ID: PG52LCSS1
Inj Date : 17-JUL-2009 22:29
Operator : VTS Inst ID: nt1.i
Smp Info : PG52LCSS1
Misc Info : 09-16502
Comment : 1ul Injection
Method : /chem3/nt1.i/20090717.b/simpna.m
Meth Date : 18-Jul-2009 10:30 yev Quant Type: ISTD
Cal Date : 11-JUL-2009 14:37 Cal File: ic0711f.d
Als bottle: 20 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna1mn.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	10.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
*	1 Naphthalene-d8	136	6.475	6.474	(1.000)	430464	2.00000	
	2 Naphthalene	128	6.498	6.498	(1.004)	445942	2.35663	117.8
$	3 2-Methylnaphthalene-d10	152	7.219	7.218	(1.115)	230400	2.42331	121.2
	4 2-Methylnaphthalene	142	7.260	7.260	(1.121)	249973	2.37794	118.9
	5 1-Methylnaphthalene	142	7.385	7.384	(1.141)	252596	2.43135	121.6
	7 Acenaphthylene	152	8.330	8.329	(0.979)	407411	2.59376	129.7
*	8 Acenaphthene-d10	164	8.507	8.506	(1.000)	203182	2.00000	
	9 Acenaphthene	153	8.548	8.548	(1.005)	241129	2.44871	122.4
	10 Dibenzofuran	168	8.737	8.737	(1.027)	351615	2.46439	123.2
	11 Fluorene	166	9.157	9.156	(1.076)	272797	2.68372	134.2
*	15 Phenanthrene-d10	188	10.303	10.302	(1.000)	321669	2.00000	
	16 Phenanthrene	178	10.333	10.332	(1.003)	426151	2.85701	142.9
	17 Anthracene	178	10.386	10.391	(1.008)	435967	2.93105	146.6
	19 Fluoranthene	202	11.816	11.815	(1.147)	462279	3.36453	168.2(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
20 Pyrene	202	12.099	12.098	(0.890)	477409	2.89599	144.8
22 Benzo(a)anthracene	228	13.576	13.581	(0.998)	363746	3.14192	157.1(R)
* 23 Chrysene-d12	240	13.600	13.599	(1.000)	246156	2.00000	
24 Chrysene	228	13.629	13.634	(1.002)	365498	3.01694	150.8
28 Benzo(b)fluoranthene	252	14.846	14.846	(0.972)	358492	3.23059	161.5
29 Benzo(k)fluoranthene	252	14.870	14.869	(0.974)	370919	3.11650	155.8
30 Benzo(a)pyrene	252	15.213	15.218	(0.996)	292979	3.13890	156.9
* 31 Perylene-d12	264	15.272	15.277	(1.000)	221856	2.00000	
33 Indeno(1,2,3-cd)pyrene	276	16.642	16.648	(1.090)	226858	2.38598	119.3
$ 32 Dibenz(a,h)anthrancene-d14	292	16.595	16.594	(1.087)	140650	2.56679	128.3
34 Dibenz(a,h)anthracene	278	16.636	16.642	(1.089)	185206	2.57687	128.8
35 Benzo(g,h,i)perylene	276	17.038	17.043	(1.116)	166380	1.87095	93.55

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: pg52sb1.d
Lab Smp Id: PG52LCSS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20090717.b/simpna.m
Misc Info: 09-16502

Calibration Date: 17-JUL-2009
Calibration Time: 13:57
Client Smp ID: PG52LCSS1
Level: LOW
Sample Type: Solid

Test Mode:
Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	463169	231584	926338	430464	-7.06
8 Acenaphthene-d10	213444	106722	426888	203182	-4.81
15 Phenanthrene-d10	326462	163231	652924	321669	-1.47
23 Chrysene-d12	224038	112019	448076	246156	9.87
31 Perylene-d12	206230	103115	412460	221856	7.58

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	6.47	5.97	6.97	6.47	0.01
8 Acenaphthene-d10	8.51	8.01	9.01	8.51	0.01
15 Phenanthrene-d10	10.30	9.80	10.80	10.30	0.01
23 Chrysene-d12	13.60	13.10	14.10	13.60	0.01
31 Perylene-d12	15.28	14.78	15.78	15.27	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor QEA
Sample Matrix: SOLID
Lab Smp Id: PG52LCSS1
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: pna1mn.sub
Method File: /chem3/nt1.i/20090717.b/simpna.m
Misc Info: 09-16502

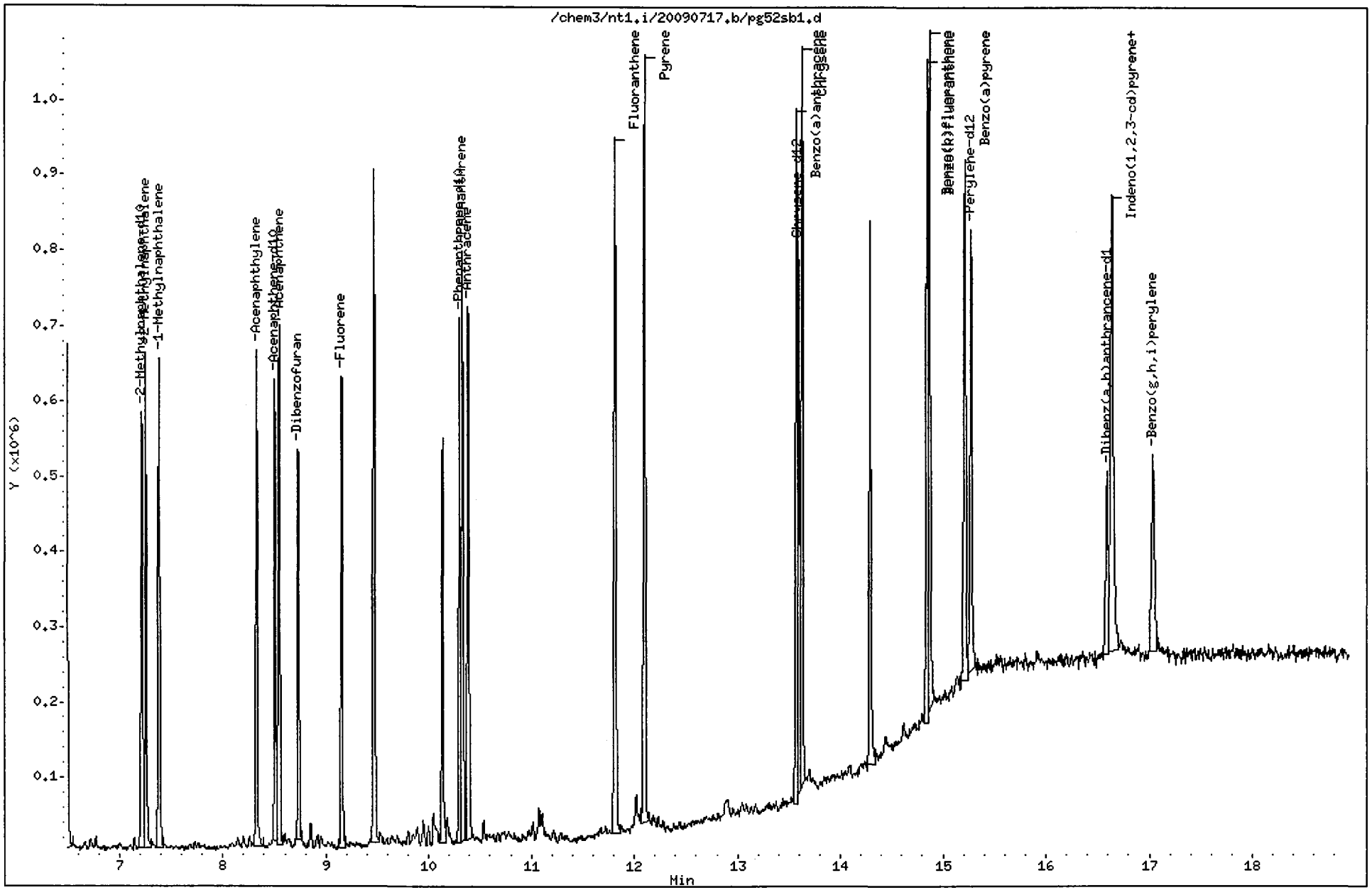
Client SDG: PG52
Fraction: SV
Client Smp ID: PG52LCSS1
Operator: VTS
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
2 Naphthalene	150.0	117.8	78.55	39-100
4 2-Methylnaphthalen	150.0	118.9	79.26	39-100
5 1-Methylnaphthalen	150.0	121.6	81.04	30-160
7 Acenaphthylene	150.0	129.7	86.46	37-100
9 Acenaphthene	150.0	122.4	81.62	42-100
10 Dibenzofuran	150.0	123.2	82.15	46-100
11 Fluorene	150.0	134.2	89.46	49-101
16 Phenanthrene	150.0	142.9	95.23	55-101
17 Anthracene	150.0	146.6	97.70	47-102
19 Fluoranthene	150.0	168.2	112.15*	60-106
20 Pyrene	150.0	144.8	96.53	55-110
22 Benzo(a)anthracene	150.0	157.1	104.73*	56-104
24 Chrysene	150.0	150.8	100.56	58-104
28 Benzo(b)fluoranthe	150.0	161.5	107.69	51-126
29 Benzo(k)fluoranthe	150.0	155.8	103.88	55-123
30 Benzo(a)pyrene	150.0	156.9	104.63	32-110
33 Indeno(1,2,3-cd)py	150.0	119.3	79.53	50-114
34 Dibenz(a,h)anthrac	150.0	128.8	85.90	42-121
35 Benzo(g,h,i)peryle	150.0	93.55	62.36	50-113

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 3 2-Methylnaphthalen	150.0	121.2	80.78	34-100
$ 32 Dibenz(a,h)anthran	150.0	128.3	85.56	10-117

Data File: /chem3/nt1.i/20090717.b/pg52sb1.d
Date : 17-JUL-2009 22:29
Client ID: PG52LCSS1
Sample Info: PG52LCSS1
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



PG52 090916

SIM Semivolatile Analysis
Extraction Bench Sheets/Run Logs

prepared
for

Anchor QEA

Project: Eddon Boatyard

ARI JOB NO: PG52

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

SIM PNA-Soil/ Sediment
Microwave (3546) (SOP # 397S)

Preparation Test SIM PNA # 5 (5ppb)

ARI Job No(s) PG52 Batch set up by: ~~SU~~

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted	Turbo Vap 1 (2) 3 **Exchange 5mL Hexane**	(REQ) ~~(Opt)~~ Silica Gel Clean **(1:1)** (Y) N	TurboVap 1 (2) 3	Final Effective Volume	Volume to Lab	Comments
	PG52 MBS	Date 7-14-09	10.00g				0.5mL	0.5mL	
	SBS		↓				↓	↓	
	~~SBS Dup.~~		↓				↓	↓	
1	PG52 D	verified	12.689						
	H		13.355						
	M		13.289						
	Q		12.179						
	Qms		12.224						
	Qmsd		12.279						
↓	T	↓	12.294	↓	↓	↓	↓	↓	
Analyst/Date:	AC 7-14-09			TH 7/15/09					

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	**B**	**100µL**	8-28-09	AC	WW
Spike	**15**	**100µL**	8-28-09	AC	WW
Extraction Time: 14:05					

SPECIAL INSTRUCTIONS: 1. Weigh into 100mL beakers-dry with Sodium Sulfate. 2. Transfer to microwave vessel. 3. Add 20mL DCM to the vessel (if needed-Add 5mL increments until solvent is 1" above soil layer). 4. Add surr/spike. 5. Mix samples thoroughly before microwaving. 6. Microwave on appropriate power setting determined by # of samples. 7. After microwave-let cool 10-15 min. 8. Collect into turbo tube with sm. funnel containing glasswool and 1" sodium sulfate. 9. Add (2) 10mL DCM rinses to vessel and transfer to turbo tube. 10. TurboVap to 4mL then Add 5mL Hexane and turbovap. 11. Silica Clean-up ~~Opt~~-Any Color=REQ (All ~~or more~~). 12. TurboVap (if Silica Clean). 13. Vial in DCM.
A. Need Total Solids Y (N) B. ~~Archive~~/Freeze (Y) N

PG52 : 00318

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory
Analyst Notes

ARI Job No.: PG52 Client ID: Anchor QEA

Parameter: SIM PNA Client Project: Eddon Boatyard

SOP Number(s): 3975 No Anomalies:

List problems, concerns, corrective actions and any other pertinent information
Sample D = fairly dry
H = Some moisture ~~present~~ present AC 7-13-09
M = ↓
Q = fairly dry
T = moist and sticky
AC 7-13-09

Analyst Initials:		Date:	

Extractions Total Solids-extts
Data By: Alex Choeng
Created: 7/13/09

Worklist: 2231
Analyst: AC
Comments:

	ARI ID / CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1.	PG52D 09-16489 AHA-01-1SW(0-3)	1.15	11.52		10.18	NR
2.	PG52H 09-16493 AHA-01-1SE(0-3)	1.16	11.43		9.51	NR
3.	PG52M 09-16498 AHA-01-1NE(0-3)	1.16	12.07		10.21	NR
4.	PG52Q 09-16502 AHA-01-1NW(0-2.5)	1.17	11.72		10.50	NR
5.	PG52T 09-16505 AHA-01-CEN(2.5-3.5)	1.17	12.48		10.82	NR

Analytical Resources Inc.: Organics Instrument Log

NT-1 (Serial No.: Mass Spec = 3341A01294; Mass Spec GC = 3336A53338)

Date: 07/11/09 Analysis: SIM PNA Analyst: YZ

GC Program: SIMPNA Column No: 165246 Column Type: ZB 5 MSi

Instrument Tune (.U or .CT.): 081002 EM Voltage: 1450

Calibration File: DF0711 Curve Date: 07/11/09

IS/SS	Ical/Ccal	LCS/ICV
1584-1	1598-3	1540-2

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt1.i/20090711.b

	Time	Filename	LabID	ClientId	DF								
1	1212	df0711.d	DF0711		1	NO ISTDS FOUND							
2	1230	ic0711a.d	IC0711A		1	6.53	463169	8.57	213444	10.36	326462	13.66	224038	15.34	206230
3	1256	ic0711b.d	IC0711B		1	6.53	464574	8.56	216909	10.37	338508	13.66	227071	15.34	210521
4	1321	ic0711c.d	IC0711C		1	6.52	470620	8.56	208298	10.36	326405	13.66	213750	15.34	188853
5	1347	ic0711d.d	IC0711D		1	6.53	468820	8.57	214194	10.36	340205	13.66	227465	15.34	208290
6	1412	ic0711e.d	IC0711E		1	6.53	459743	8.57	212162	10.36	334551	13.66	221346	15.34	201277
7	1437	ic0711f.d	IC0711F		1	6.52	444313	8.56	205696	10.36	310686	13.66	202535	15.34	185051
8	1503	icv0711.d	ICV0711		1	6.53	449405	8.56	207872	10.36	317068	13.66	213640	15.34	193446
9	1528	pe76mb1.d	PE76MBS1	PE76MBS1	1	6.53	411934	8.57	188150	10.36	281127	13.66	181682	15.34	163743
10	1554	pe76sb1.d	PE76LCSS1	PE76LCSS1	1	6.53	437504	8.57	198070	10.36	303736	13.66	195820	15.34	174639
11	1619	pe76b.d	PE76B	1-TP-2/3	1	6.53	368570	8.57	161636	10.36	246991	13.66	158222	15.34	153347
12	1645	pe76d.d	PE76D	2-TP-2/3	1	6.53	426113	8.57	193345	10.36	296170	13.66	190560	15.34	176015
13	1710	pe76f.d	PE76F	3-TP-2/3	1	6.53	429226	8.56	194693	10.36	297996	13.66	188692	15.34	181540
14	1735	pe76g.d	PE76G	4-TP-0/0.5	1	6.53	435045	8.57	208606	10.36	306644	13.66	199003	15.34	206810
15	1801	pe76h.d	PE76H	4-TP-2/3	1	6.53	426266	8.57	191435	10.36	278725	13.66	176189	15.34	173389
16	1826	pe76i.d	PE76I	5-TP-0/0.5	1	6.53	464474	8.57	215417	10.36	301461	13.66	224411	15.35	223236
17	1851	pe76j.d	PE76J	5-TP-2/3	1	6.53	444403	8.56	207384	10.36	303629	13.66	191115	15.34	190813
18	1917	pe76l.d	PE76L	6-TP-2/3	1	6.53	420418	8.57	196565	10.36	288503	13.66	188690	15.34	180344
19	2007	pe76n.d	PE76N	7-TP-2/3	1	6.53	466131	8.56	213612	10.36	317163	13.66	200823	15.34	195070
20	2032	pe76p.d	PE76P	8-TP-2/3	1	6.53	429775	8.57	201608	10.36	289117	13.66	187198	15.34	177433
21	2058	pe76q.d	PE76Q	9-TP-0/0.5	1	6.53	453025	8.56	217212	10.36	314676	13.66	219520	15.35	219980
22	2123	pe76r.d	PE76R	9-TP-2/3	1	6.53	413396	8.56	194870	10.36	278379	13.66	184219	15.34	180028
23	2148	pe76t.d	PE76T	10-TP-2/3	1	6.53	411728	8.56	194872	10.36	281307	13.66	188536	15.34	178799
24	2214	pe76c3.d	PE76C	2-TP-0/0.5	3	6.52	348634	8.56	174091	10.36	242231	13.66	170732	15.35	176298
25	2239	pe76e3.d	PE76E	3-TP-0/0.5	3	6.52	400230	8.56	200771	10.36	281609	13.66	196076	15.34	197058
26	2304	pe76k3.d	PE76K	6-TP-0/0.5	3	6.52	404411	8.56	215147	10.37	290315	13.67	221221	15.36	252640
27	1942	pe76m3.d	PE76M	7-TP-0/0.5	3	6.53	445870	8.57	206112	10.36	315637	13.66	208108	15.34	200629
28	2329	pe76s3.d	PE76S	10-TP-0/0.5	3	6.52	401848	8.56	211895	10.36	293734	13.67	219890	15.36	197140
29	2355	pe76a5.d	PE76A	1-TP-0/0.5	5	6.52	373250	8.56	186588	10.36	261249	13.66	202030	15.35	167540
30	0020	pe76o5.d	PE76O	8-TP-0/0.5	5	6.52	392529	8.56	185680	10.36	253834	13.66	185844	15.35	151558
31	0045	pe76oms.d	PE76OMS	8-TP-0/0.5 MS	5	6.52	884037	8.56	365550	10.36	530666	13.68	350179	15.37	144441
32	0110	pe76omsd.d	PE76OMSD	8-TP-0/0.5 MSD	5	6.52	463767	8.56	222559	10.36	310547	13.66	212392	15.35	104049

Mai

new liner, new septum, clipped ~5" of the column

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): ICO711

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: PG52 Client ID: Anchor QEA

ARI SOP: **801S**(SIM-PNA) **802S**(Butyl Tins) **804S**(SVOA-8270D) **805S**(op-Pest)

Parameter(s): SIM PNA

Instrument: (NT-1) NT-2 NT-4 NT-6 NT-8

Curve Date: 07/11/09 Analysis Start Date: ~~07/16/09~~ 07/17/09

DFTPP Tune Meets Criteria? (YES) / NO

Internal Standard Meets Criteria? (YES) / NO

DDT Breakdown <20%? (YES) / NO / NA

Method Blank In Control? (YES) / NO

Peak Tailing Factor ≤2? (YES) / NO / NA

LCS / LCSD Recovery In Control? (YES) / NO

ICal acceptable (YES) / NO; Q flag applied YES / (NO)

Surrogate Recovery In Control? (YES) / NO

CCal acceptable (YES) / NO; Q flag applied YES / (NO)

Special Analysis Criteria Met? (YES) / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Samples D, H, H, Q were re-run @ dilution on 07/18/09.

Additional Details on Reverse: Yes / (No)

Analyst Signature: YZ **Date:** 7/18/09

Reviewer's Signature: [signature] **Date:** 7/18/2009

Analytical Resources Inc.: Organics Instrument Log

NT-1 (Serial No.: Mass Spec = 3341A01294; Mass Spec GC = 3336A53338)

Date: 7/17/09 Analysis: SIM PNA Analyst: YZ

GC Program: SIM PNB Column No: 165246 Column Type: ZB 5MS

Instrument Tune (.U or .CT.): 0810024 EM Voltage: 1500

Calibration File: PF 0717 Curve Date: 07/11/09

IS/SS	Ical/Ccal	LCS/ICV
(1584-2)	1598-3	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt1.i/20090717.b

	Time	Filename	LabID	ClientId	DF									
1	1337	df0717.d	DF0717		1	NO ISTDS FOUND								
2	1357	cc0717.d	CC0717		1	6.47	488162	8.51	226688	10.30	355623	13.60	271105	15.28	222258
3	1425	pf57l10.d	PF57L	SOL-JGDUP-090701	10	6.48	651300	8.51	317459	10.31	486620	13.60	365399	15.29	339518
4	1451	pf57k10.d	PF57K	SOL-JG1-090701	10	6.48	566423	8.51	281547	10.30	428040	13.61	315243	15.28	268560
5	1516	pf35mb1.d	PF35MBW1	PF35MBW1	1	6.47	489170	8.51	227195	10.30	354567	13.60	241533	15.28	223243
6	1542	pf35sb1.d	PF35LCSW1	PF35LCSW1	1	6.47	502758	8.51	232927	10.30	359799	13.60	246621	15.28	214636
7	1607	pf35sbd.d	PF35LCSDW1	PF35LCSDW1	1	6.47	507378	8.51	242376	10.30	368728	13.60	247075	15.28	216478
8	1633	pf35a.d	PF35A	PE62A	1	6.47	478540	8.51	226479	10.31	346954	13.60	237715	15.28	205248
9	1658	pf35b.d	PF35B	PE62B	1	6.47	508533	8.51	239267	10.31	363306	13.60	248980	15.28	211955
10	1724	pf35c.d	PF35C	PE62C	1	6.48	498351	8.51	230422	10.31	350940	13.60	235331	15.27	201112
11	1749	pf35d.d	PF35D	PE62D	1	6.47	503480	8.51	237866	10.30	357793	13.60	238596	15.28	205478
12	1815	pf35e.d	PF35E	PE62E	1	6.47	501042	8.51	238052	10.31	358900	13.60	246979	15.28	206317
13	1840	pg28mb1.d	PG28MBS1	PG28MBS1	1	6.47	472483	8.51	220633	10.30	335638	13.60	230451	15.28	198112
14	1906	pg28sb1.d	PG28LCSS1	PG28LCSS1	1	6.48	491405	8.51	224369	10.30	349090	13.60	243976	15.28	223728
15	1931	pg28c.d	PG28C	HBSEB-01-070809-4-5	1	6.47	523669	8.51	250785	10.31	388681	13.61	289496	15.28	277844
16	1957	pg28d.d	PG28D	HBSEB-01-070809-6-8	1	6.47	446586	8.51	208104	10.30	321573	13.60	236334	15.28	213693
17	2022	pg28dms.d	PG28DMS	HBSEB-01-070809 MS	1	6.47	446957	8.51	206515	10.30	323326	13.60	249447	15.28	231573
18	2047	pg28dmsd.d	PG28DMSD	HBSEB-01-070809 MSD	1	6.48	498447	8.51	233309	10.30	360171	13.60	262138	15.28	237965
19	2113	pg28g.d	PG28G	HBSEB-02-070809-2-3	1	6.48	439367	8.51	217836	10.30	341030	13.60	261513	15.28	256337
20	2138	pg28j.d	PG28J	HBSEB-02-070809-8-1	1	6.48	433101	8.51	207920	10.30	322542	13.60	238985	15.27	220146
21	2203	pg52mb1.d	PG52MBS1	PG52MBS1	1	6.47	401958	8.51	188289	10.30	283792	13.60	216124	15.28	194790
22	2229	pg52sb1.d	PG52LCSS1	PG52LCSS1	1	6.47	430464	8.51	203182	10.30	321669	13.60	246156	15.27	221856
23	2254	pg52d.d	PG52D	AHA-01-1SW(0-3)	1	6.47	382416	8.51	182427	10.30	289785	13.61	268590	15.28	258128
24	2319	pg52h.d	PG52H	AHA-01-1SE(0-3)	1	6.47	421755	8.51	200236	10.30	309625	13.60	265903	15.28	257934
25	2344	pg52m.d	PG52M	AHA-01-1NE(0-3)	1	6.47	433941	8.51	205365	10.30	316791	13.61	279702	15.29	252026
26	0010	pg52q.d	PG52Q	AHA-01-1NW(0-2.5)	1	6.48	442766	8.51	198942	10.31	311497	13.60	257920	15.28	231086
27	0035	pg52qms.d	PG52QMS	AHA-01-1NW(0-2. MS	1	6.48	478308	8.51	215390	10.30	332547	13.60	249121	15.28	233992
28	0100	pg52qmsd.d	PG52QMSD	AHA-01-1NW(0-2. MSD	1	6.47	532370	8.51	245218	10.30	362774	13.60	262882	15.28	234676
29	0126	pg52t.d	PG52T	AHA-01-CEN(2.5-3.5)	1	6.47	534029	8.51	248702	10.30	373459	13.60	248164	15.27	212485

Maintenance / Comments new liner, clipped ~3" of column, new septum

YZ 7/18/09

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control) CC 7/17

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: SIM PNA curve Client ID: ARI

ARI SOP: **801S**(SIM-PNA) **802S**(Butyl Tins) **804S**(SVOA-8270D) **805S**(op-Pest)

Parameter(s): SIM PNA

Instrument: (NT-1) NT-2 NT-4 NT-6 NT-8

Curve Date: 07/11/09 Analysis Start Date: _____

DFTPP Tune Meets Criteria?	(YES) / NO	Internal Standard Meets Criteria?	(YES) / NO
DDT Breakdown <20%?	(YES) / NO / NA	Method Blank In Control?	YES / NO
Peak Tailing Factor ≤2?	(YES) / NO / NA	LCS / LCSD Recovery In Control?	YES / NO
ICal acceptable (YES) / NO; Q flag applied YES / (NO)		Surrogate Recovery In Control?	YES / NO
CCal acceptable (YES) / NO; Q flag applied YES / (NO)		Special Analysis Criteria Met?	YES / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

6 points curve, all RSD < 20%

Additional Details on Reverse: Yes / (No)

Analyst Signature: YZ **Date:** 7/13/09

Reviewer's Signature: [signature] **Date:** 7/14/2009

Analytical Resources, Incorporated
Analytical Chemists and Consultants

January 6, 2009

Joy Dunay
Anchor Environmental
1423 3rd Avenue, Suite 300
Seattle, WA 98101

RE: 040289-02 Eddon Boatyard
ARI Job No.: OC67

Dear Joy:

Please find enclosed the Chain-of-Custody (COC) record, sample receipt documentation, and the final data package for samples from the project referenced above.

Sample receipt and details of the analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Susan Dunnihoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures

cc: eFile OC67

SD/co

Chain of Custody
Documentation

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OC67

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

ARI Assigned Number: NU61	Turn-around Requested: 72 hr
ARI Client Company: Anchor	Phone: 206 287 9130
Client Contact: Joy Danay	
Client Project Name: Eddon Boatyard	
Client Project #: 040289-02	Samplers: DG, JP
Page: 1 of 1	
Date: 10/15/08	Ice Present?
No. of Coolers:	Cooler Temps:

Sample ID	Date	Time	Matrix	No. Containers	Porewater TBT	mercury	TOC	Total Solids	SMS metals	SMS SVOC	SMS PCB	Grain Size	Notes/Comments
EB-SE-03-Z-081015	10/15	1340	Sed	6	X	X							
EB-SE-03-ZZ-081015	10/15	1340	Sed	1	X	X							Archive
EB-SE-03-Z-081015-1	↓	1300	Sed	2	X	X							Hold, ~~Grab~~-1
													Freeze in 6 days

Comments/Special Instructions: will call to confirm 10/16 morning

	Relinquished by:	Received by:	Relinquished by:	Received by:
(Signature)	[signature]	[signature]		
Printed Name:	David Gillingham	Jonathan Walter		
Company:	Anchor	ARI		
Date & Time:	10/15/08 1720	10/15/08 1720		

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Anchor | Project Name: Eddon Boatyard
COC No: | Delivered by: Hand
Assigned ARI Job No: NU61 | Tracking No:

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO
Record cooler temperature (recommended 2.0-6.0 °C for chemistry	9.4 °C	

Cooler Accepted by: JW Date: 10/15/08 Time: 1720

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?	YES	(NO)
What kind of packing material was used?	ICE	
Was sufficient ice used (if appropriate)?	YES	(NO)
Were all bottles sealed in individual plastic bags?	YES	(NO)
Did all bottle arrive in good condition (unbroken)?	(YES)	NO
Were all bottle labels complete and legible?	(YES)	NO
Did all bottle labels and tags agree with custody papers?	(YES)	NO
Were all bottles used correct for the requested analyses?	(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation checklist)	YES	(NO)
Were all VOC vials free of air bubbles? (NA)	YES	NO
Was sufficient amount of sample sent in each bottle?	(YES)	NO

Samples Logged by: JW Date: 10/15/08 Time: 1735

*** Notify Project Manager of discrepancies or concerns ***

Explain discrepancies or negative responses:

By: Date:

0003

Subject: Eddon Boatyard additional testing
From: "Joy Dunay" <jdunay@anchorenv.com>
Date: Fri, 5 Dec 2008 11:05:19 -0800
To: "Sue Dunnihoo" <sue@arilabs.com>
CC: "Cheronne Oreiro" <cheronneo@arilabs.com>

Sue/Cheronne (I think Sue is out today),

For archived sample EB-SE-03-ZZ-081015 please:

- If there is enough sample analyze porewater TBT and bulk sediment SMS metals
- If there is limited sample analyze bulk sediment TBT and bulk sediment SMS metals

Let me know if you have any questions. Standard TAT is fine.

Thanks,
Joy

Joy Dunay
Anchor Environmental, LLC
1423 3rd Avenue, Suite 300
Seattle, WA 98101
P- 206-903-3320
F- 206-287-9131
jdunay@anchorenv.com

 12/5/2008 11:07 AM

Case Narrative

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OC67

prepared
by

Analytical Resources, Inc.

ANALYTICAL
RESOURCES
INCORPORATED

Case Narrative

Client: Anchor Environmental
Project: 040289-02 Eddon Boatyard
ARI Job No.: OC67

Sample receipt

One sediment sample was removed from archive on December 5, 2008, as requested by Anchor Environmental. For details regarding sample receipt, please refer to the enclosed Cooler Receipt Form. The sample was analyzed for TBTs and SMS Metals.

TBTs by Krone 1988

The sample was extracted and analyzed within the method recommended holding times for frozen samples. The sample was run in duplicate.

Initial and continuing calibrations were within method requirements. Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limits. The LCS recoveries were within limits.

Metals by Methods 6010B/7471A

The sample was prepared and analyzed within the method recommended holding times for all metals except for mercury.

The method blank was clean at the reporting limits. The LCS percent recoveries were within the control limits.

The duplicate RPDs were within the control limit.

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U	Indicates that the target analyte was not detected at the reported concentration
*	Duplicate RPD is not within established control limits
B	Reported value is less than the CRDL but ≥ the Reporting Limit
N	Matrix Spike recovery not within established control limits
NA	Not Applicable, analyte not spiked
H	The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
L	Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U	Indicates that the target analyte was not detected at the reported concentration
*	Flagged value is not within established control limits
B	Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
J	Estimated concentration when the value is less than ARI's established reporting limits
D	The spiked compound was not detected due to sample extract dilution
NR	Spiked compound recovery is not reported due to chromatographic interference
E	Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
S	Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
NA	The flagged analyte was not analyzed for
NS	The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.

F Samples were frozen prior to particle size determination

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

LCS SOLUTIONS

12/30/08

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
1	1549-3	PCB	20	ACETONE	10/10/09
2	1472-3	BCOC PEST	10	ACETONE	07/20/08
3	1517-1	PEST	02/04/20	ACETONE	05/15/09
4	1561-2	LOW PEST	0.2/0.4/2	ACETONE	05/15/09
5	1537-1	EPH	1500	MECL2	08/16/09
6	1559-2	PCP	12.5/125	ACETONE	11/05/09
7	1573-1	ABN	100	ACETONE	08/01/09
8	1566-1	TBT	2.5	MECL2	12/04/09
9	1567-3	PORE TBT	.125/.25	MECL2	12/04/09
10	1554-3	ABN ACID	100/200	MEOH	10/21/09
11	1563-3	TPHD	15000	ACETONE	11/20/09
12	1563-1	ABN BASE	200	ACETONE	06/30/09
13	1573-2	LOW PCB	2	ACETONE	10/10/09
14	1547-1	LOW ABN ACID	10/20	MEOH	04/10/09
15*	1452-1	SIM PNA	15/75	MEOH	04/09/09
16	1502-2	DIOXANE	100	MEOH	02/20/09
17	1516-2	1248 PCB	20	ACETONE	05/07/09
18	1514-4	LOW SIM PNA	1.5/7.5	ACETONE	04/24/09
19	1517-3	AK103	7500	MECL2	12/29/08
20	1572-2	PNA	100	ACETONE	12/26/09
21*	1414-4	SKY/BHT	100	MEOH	04/08/09
22	1570-1	HERB	12.5/12500	MEOH	02/19/09
23	1505-1	LOW ABN BASE	20	MEOH	03/20/09
24	1541-4	LOW ABN	10	ACETONE	08/01/09
25	1481-1	DIPHENYL	100	MEOH	07/20/08
26	1545-2	OP-PEST	25	MEOH	02/14/09
27	1495-1	STEROLS	200	MEOH	12/29/08
28	1494-1	ADD. PEST	4	ACETONE	01/23/09
29	1496-3	DECANES	100	MEOH	02/12/09
30	1497-2	EDB/DBCP	2	ACETONE	02/12/09
31	1510-3	TERPINEOL	100	MEOH	03/21/09

LCS SOLUTIONS

12/30/08

32	1545-3	GUAIACOL	50-200	ACETONE	06/05/09
33	1522-1	RESIN ACID	250	ACETONE	06/11/09
34	1530-2	CONGENERS	1	ACETONE	07/23/09
50	1571-1	FULL RESIN	250	ACETONE	06/10/09
*=REVERIFIED SOLUTION					

SURR SOLUTIONS

12/30/08

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
A	1559-5	ABN	100/150	MEOH	03/13/09
B	1572-1	SIM PNA	15/75	MEOH	08/28/09
C	1559-1	SIM ABN	25/37.5	MEOH	03/13/09
D	1561-3	LOW PCB	0.2	ACETONE	07/31/09
E*	1478-1	HERB	62.5	MEOH	09/21/09
F	1520-3	PCP	12.5	ACETONE	04/18/09
G	1534-1	1,4DIOXANE	100	MEOH	02/20/09
H	1545-1	OP-PEST	25	MEOH	02/14/09
I	1559-4	LOW S. PNA	1.5	MEOH	08/28/09
J	1566-5	TBT-PORE	0.125	MECL2	12/04/09
K	1538-1	MED PCB	20	ACETONE	07/31/09
L	1566-4	TBT	2.5	MECL2	12/04/09
M	1558-2	EPH	1500	MECL2	09/24/09
N	1538-2	PCB	2	ACETONE	07/31/09
O	1567-4	TPH	450	MECL2	09/24/09
P	1560-3	HCID	2250	MECL2	09/24/09
Q	1497-3	EDB	2	ACETONE	02/12/09
R	1521-4	RESIN ACID	250	ACETONE	06/11/09
S	1568-5	PBDE	.25	MEOH	12/11/09
T	*reverified solution				
U					
V					
W					
X					
Y					
Z					

Data Summary Package

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OC67

prepared
by

Analytical Resources, Inc.

TBT

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: EB-SE-03-ZZ-081015
SAMPLE

Lab Sample ID: OC67A
LIMS ID: 08-32584
Matrix: Sediment
Data Release Authorized:
Reported: 12/12/08

QC Report No: OC67-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/15/08
Date Received: 10/15/08

Date Extracted: 12/09/08
Date Analyzed: 12/11/08 16:19
Instrument/Analyst: NT2/VTS
Silica Gel Cleanup: No

Sample Amount: 6.13 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes
Moisture: 31.2%

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyltin Ion	3.2	210	
DBT_ION	Dibutyltin Ion	4.7	52	
BT_ION	Butyltin Ion	3.3	8.2	

Reported in µg/kg (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	72.7%
Tripentyl Tin Chloride	66.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: EB-SE-03-ZZ-081015
DUPLICATE

Lab Sample ID: OC67A
LIMS ID: 08-32584
Matrix: Sediment
Data Release Authorized:
Reported: 12/12/08

QC Report No: OC67-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/15/08
Date Received: 10/15/08

Date Extracted: 12/09/08
Date Analyzed: 12/11/08 16:39
Instrument/Analyst: NT2/VTS
Silica Gel Cleanup: No

Sample Amount: 5.69 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes
Moisture: 31.2%

CAS Number	Analyte	RL	Result		RPD
TBT_ION	Tributyltin Ion	3.4	510	E	83.3%
DBT_ION	Dibutyltin Ion	5.1	110		71.6%
BT_ION	Butyltin Ion	3.6	22		91.4%

Reported in µg/kg (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	129%
Tripentyl Tin Chloride	91.8%

ANALYTICAL RESOURCES INCORPORATED

TBT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: OC67-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02

Client ID	TPRT	TPNT	TOT OUT
MB-120908	85.1%	94.1%	0
LCS-120908	85.4%	109%	0
EB-SE-03-ZZ-081015	72.7%	66.4%	0
EB-SE-03-ZZ-081015 DP	129%	91.8%	0

	LCS/MB LIMITS	QC LIMITS
(TPRT) = Tripropyl Tin Chloride	(30-160)	(30-160)
(TPNT) = Tripentyl Tin Chloride	(30-160)	(30-160)

Prep Method: SW3546
Analytical Method: TBT (Hexyl) Krone 1988
Log Number Range: 08-32584 to 08-32584

FORM-II TBT

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: LCS-120908
LAB CONTROL SAMPLE

Lab Sample ID: LCS-120908
LIMS ID: 08-32584
Matrix: Sediment
Data Release Authorized:
Reported: 12/12/08

QC Report No: OC67-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Date Extracted LCS: 12/09/08
Date Analyzed LCS: 12/11/08 16:00
Instrument/Analyst LCS: NT2/VTS
Silica Gel Cleanup: No

Sample Amount LCS: 5.00 g-dry-wt
Final Extract Volume LCS: 0.50 mL
Dilution Factor LCS: 1.00
Alumina Cleanup: Yes

Analyte	LCS	Spike Added	Recovery
Tributyltin Ion	35.1	44.6	78.7%
Dibutyltin Ion	26.4	38.4	68.8%
Butyltin Ion	24.4	31.2	78.2%

Reported in µg/kg (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	85.4%
Tripentyl Tin Chloride	109%

4B

SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

OC67MBS1

Lab Name: ANALYTICAL RESOURCES, INC — Client: ANCHOR

ARI Job No: OC67 — Project: EDDON BOATYARD

Lab File ID: OC67MB — Date Extracted: 12/09/08

Instrument ID: NT2 — Date Analyzed: 12/11/08

Matrix: SOLID — Time Analyzed: 1521

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	OC67LCSS1	OC67LCSS1	OC67SB	12/11/08
02	EB-SE-03-ZZ-0810	OC67A	OC67A	12/11/08
03	EB-SE-03-ZZ-081	OC67ADUP	OC67ADUP	12/11/08
04				
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COMMENTS:

FORM IV SV

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: MB-120908
METHOD BLANK

Lab Sample ID: MB-120908
LIMS ID: 08-32584
Matrix: Sediment
Data Release Authorized:
Reported: 12/12/08

QC Report No: OC67-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 12/09/08
Date Analyzed: 12/11/08 15:21
Instrument/Analyst: NT2/VTS
Silica Gel Cleanup: No

Sample Amount: 5.00 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyltin Ion	3.9	< 3.9	U
DBT_ION	Dibutyltin Ion	5.8	< 5.8	U
BT_ION	Butyltin Ion	4.1	< 4.1	U

Reported in µg/kg (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	85.1%
Tripentyl Tin Chloride	94.1%

METALS

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: EB-SE-03-ZZ-081015
SAMPLE

Lab Sample ID: OC67A
LIMS ID: 08-32584
Matrix: Sediment
Data Release Authorized:
Reported: 12/30/08

QC Report No: OC67-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/15/08
Date Received: 10/15/08

Percent Total Solids: 67.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	12/09/08	6010B	12/29/08	**7440-38-2**	**Arsenic**	7	**7**	
3050B	12/09/08	6010B	12/29/08	**7440-43-9**	**Cadmium**	0.3	**0.4**	
3050B	12/09/08	6010B	12/29/08	**7440-47-3**	**Chromium**	0.7	**22.7**	
3050B	12/09/08	6010B	12/29/08	**7440-50-8**	**Copper**	0.3	**70.4**	
3050B	12/09/08	6010B	12/29/08	**7439-92-1**	**Lead**	3	**27**	
CLP	12/09/08	7471A	12/15/08	**7439-97-6**	**Mercury**	0.07	**0.38**	
3050B	12/09/08	6010B	12/29/08	7440-22-4	Silver	0.4	0.4	U
3050B	12/09/08	6010B	12/29/08	**7440-66-6**	**Zinc**	1	**54**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: EB-SE-03-ZZ-081015
DUPLICATE

Lab Sample ID: OC67A
LIMS ID: 08-32584
Matrix: Sediment
Data Release Authorized:
Reported: 12/30/08

QC Report No: OC67-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/15/08
Date Received: 10/15/08

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	6010B	7	7 U	0.0%	+/- 7	L
Cadmium	6010B	0.4	0.4	0.0%	+/- 0.3	L
Chromium	6010B	22.7	22.6	0.4%	+/- 20%	
Copper	6010B	70.4	81.9	15.1%	+/- 20%	
Lead	6010B	27	30	10.5%	+/- 20%	
Mercury	7471A	0.38	0.33	14.1%	+/- 0.07	L
Silver	6010B	0.4 U	0.4 U	0.0%	+/- 0.4	L
Zinc	6010B	54	53	1.9%	+/- 20%	

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: LAB CONTROL**

Lab Sample ID: OC67LCS
LIMS ID: 08-32584
Matrix: Sediment
Data Release Authorized:
Reported: 12/30/08

QC Report No: OC67-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	205	200	102%	
Cadmium	6010B	47.8	50.0	95.6%	
Chromium	6010B	47.4	50.0	94.8%	
Copper	6010B	49.6	50.0	99.2%	
Lead	6010B	201	200	100%	
Mercury	7471A	1.05	1.00	105%	
Silver	6010B	53.9	50.0	108%	
Zinc	6010B	48	50	96.0%	

Reported in mg/kg-dry

N-Control limit not met
NA-Not Applicable, Analyte Not Spiked
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: METHOD BLANK**

Lab Sample ID: OC67MB
LIMS ID: 08-32584
Matrix: Sediment
Data Release Authorized:
Reported: 12/30/08

QC Report No: OC67-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	12/09/08	6010B	12/29/08	7440-38-2	Arsenic	5	5	U
3050B	12/09/08	6010B	12/29/08	7440-43-9	Cadmium	0.2	0.2	U
3050B	12/09/08	6010B	12/29/08	7440-47-3	Chromium	0.5	0.5	U
3050B	12/09/08	6010B	12/29/08	7440-50-8	Copper	0.2	0.2	U
3050B	12/09/08	6010B	12/29/08	7439-92-1	Lead	2	2	U
CLP	12/09/08	7471A	12/15/08	7439-97-6	Mercury	0.05	0.05	U
3050B	12/09/08	6010B	12/29/08	7440-22-4	Silver	0.3	0.3	U
3050B	12/09/08	6010B	12/29/08	7440-66-6	Zinc	1	1	U

U-Analyte undetected at given RL
RL-Reporting Limit

TOTAL SOLIDS

Extractions Total Solids-extts
Data By: Tae K. You
Created: 12/ 8/08

Worklist: 9220
Analyst: RVR
Comments:

	ARI ID / CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1.	OC67A 08-32584 EB-SE-03-ZZ-081015	1.20	12.37	8.88	68.8	NR

Solids Data Entry Report Checked by: KM Date: 12/10/08
Date: 12/10/08 Data Analyst: DM

Solids Determination performed on 12/09/08 by DM

JOB	SAMPLE	CLIENTID	TAREWEIGHT	SAMPDISH	DRYWEIGHT	SOLIDS
OC67	A	EB-SE-03-ZZ-081015	1.007	10.514	7.442	67.69

Laboratory Data Package

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OC67

prepared
by

Analytical Resources, Inc.

TBT Analysis
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OC67

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

TBT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: OC67-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02

Client ID	TPRT	TPNT	TOT OUT
MB-120908	85.1%	94.1%	0
LCS-120908	85.4%	109%	0
EB-SE-03-ZZ-081015	72.7%	66.4%	0
EB-SE-03-ZZ-081015 DP	129%	91.8%	0

	LCS/MB LIMITS	QC LIMITS
(TPRT) = Tripropyl Tin Chloride	(30-160)	(30-160)
(TPNT) = Tripentyl Tin Chloride	(30-160)	(30-160)

Prep Method: SW3546
Analytical Method: TBT (Hexyl) Krone 1988
Log Number Range: 08-32584 to 08-32584

FORM-II TBT

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: LCS-120908
LAB CONTROL SAMPLE

Lab Sample ID: LCS-120908
LIMS ID: 08-32584
Matrix: Sediment
Data Release Authorized:
Reported: 12/12/08

QC Report No: OC67-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Date Extracted LCS: 12/09/08
Date Analyzed LCS: 12/11/08 16:00
Instrument/Analyst LCS: NT2/VTS
Silica Gel Cleanup: No

Sample Amount LCS: 5.00 g-dry-wt
Final Extract Volume LCS: 0.50 mL
Dilution Factor LCS: 1.00
Alumina Cleanup: Yes

Analyte	LCS	Spike Added	Recovery
Tributyltin Ion	35.1	44.6	78.7%
Dibutyltin Ion	26.4	38.4	68.8%
Butyltin Ion	24.4	31.2	78.2%

Reported in µg/kg (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	85.4%
Tripentyl Tin Chloride	109%

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

OC67MBS1

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: OC67 Project: EDDON BOATYARD

Lab File ID: OC67MB Date Extracted: 12/09/08

Instrument ID: NT2 Date Analyzed: 12/11/08

Matrix: SOLID Time Analyzed: 1521

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	OC67LCSS1	OC67LCSS1	OC67SB	12/11/08
02	EB-SE-03-ZZ-0810	OC67A	OC67A	12/11/08
03	EB-SE-03-ZZ-081	OC67ADUP	OC67ADUP	12/11/08
04				
05				
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COMMENTS:

FORM IV SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

Instrument ID: NT2 Project: EDDON BOATYARD

DFTPP Injection Date: 12/11/08 DFTPP Injection Time: 1111

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	63.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	71.6
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	25.0 - 75.0% of mass 198	63.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	25.2
365	Greater than 0.75% of mass 198	3.78
441	Present, but less than mass 443	13.5
442	40.0 - 110.0% of mass 198	92.5
443	15.0 - 24.0% of mass 442	18.5 (20.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		IC1211A	IC1211A	12/11/08	1128
02		IC1211B	IC1211B	12/11/08	1148
03		IC1211C	IC1211C	12/11/08	1207
04		IC1211D	IC1211D	12/11/08	1226
05		IC1211E	IC1211E	12/11/08	1246
06		IC1211F	IC1211F	12/11/08	1305
07	OC67MBS1	OC67MBS1	OC67MB	12/11/08	1521
08	OC67LCSS1	OC67LCSS1	OC67SB	12/11/08	1600
09	EB-SE-03-ZZ-0810	OC67A	OC67A	12/11/08	1619
10	EB-SE-03-ZZ-081	OC67ADUP	OC67ADUP	12/11/08	1639
11					
12					
13					
14					
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17					
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19					
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22					

FORM V SV

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: OC67 Project: EDDON BOATYARD

Cont. Calib. ID: IC1211A Date Analyzed: 12/11/08

Instrument ID: NT2 Time Analyzed: 1128

		IS1 AREA	#	IS1 RT	#	IS2 AREA	#	IS2 RT	#	AREA	#	RT	#
	12 HOUR STD	264254		10.10		275807		11.06					
	UPPER LIMIT	528508		10.60		551614		11.56					
	LOWER LIMIT	132127		9.60		137904		10.56					
	CLIENT SAMP. NO.												
01	OC67MBS1	176768		10.11		252892		11.06					
02	OC67LCSS1	156388		10.10		181182		11.06					
03	EB-SE-03-ZZ-	142656		10.10		183016		11.06					
04	EB-SE-03-ZZ-	142463		10.10		170660		11.06					
05													
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22													

IS1 = Tetrapentyl Tin
IS2 = p-Terphenyl-d14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

TBT Analysis
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OC67

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: EB-SE-03-ZZ-081015
SAMPLE

Lab Sample ID: OC67A
LIMS ID: 08-32584
Matrix: Sediment
Data Release Authorized:
Reported: 12/12/08

QC Report No: OC67-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/15/08
Date Received: 10/15/08

Date Extracted: 12/09/08
Date Analyzed: 12/11/08 16:19
Instrument/Analyst: NT2/VTS
Silica Gel Cleanup: No

Sample Amount: 6.13 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes
Moisture: 31.2%

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyltin Ion	3.2	210	
DBT_ION	Dibutyltin Ion	4.7	52	
BT_ION	Butyltin Ion	3.3	8.2	

Reported in µg/kg (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	72.7%
Tripentyl Tin Chloride	66.4%

Analytical Resources, Inc.

Butyl Tins - GC/MS SIM

Data file : /chem3/nt2.i/20081211.b/oc67a.d
Lab Smp Id: OC67A Client Smp ID: EB-SE-03-ZZ-081015
Inj Date : 11-DEC-2008 16:19
Operator : VTS Inst ID: nt2.i
Smp Info : OC67A
Misc Info : 08-32584
Comment : 2 ul Injection
Method : /chem3/nt2.i/20081211.b/lowbts.m
Meth Date : 11-Dec-2008 15:56 van Quant Type: ISTD
Cal Date : 11-DEC-2008 13:05 Cal File: ic1211f.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SED.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Effective Final Volume of extract (uL)
Ws	8.91000	Weight of sample extracted (g)
M	31.20000	Percent Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)	
$	1 Tripropyl Tin (Hexyl)	291	8.464	8.465	(0.838)	22519	0.42663	34.80	
	2 Tetrabutyl Tin	289	Compound Not Detected.						
	3 Tributyl Tin (Hexyl)	319	9.454	9.454	(0.936)	140571	3.26135	266.0	
*	4 Tetrapentyl Tin	333	10.097	10.098	(1.000)	142656	2.00000		
	5 Dibutyl Tin (Hexyl)	347	10.151	10.152	(0.918)	40995	1.10834	90.40	
$	6 Tripentyl Tin (Hexyl)	345	10.438	10.439	(0.944)	14685	0.37727	30.77	
	7 Butyl Tin (Hexyl)	347	10.775	10.776	(0.974)	13742	0.24824	20.25	
*	8 p-Terphenyl-d14	244	11.058	11.059	(1.000)	183016	0.20000		(M)

QC Flag Legend

M - Compound response manually integrated.

VS
12-12-08

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: oc67a.d
Lab Smp Id: OC67A
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20081211.b/lowbts.m
Misc Info: 08-32584

Calibration Date: 11-DEC-2008
Calibration Time: 11:28
Client Smp ID: EB-SE-03-ZZ-0810
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	264254	132127	528508	142656	-46.02
8 p-Terphenyl-d14	275807	137904	551614	183016	-33.64

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	10.10	9.60	10.60	10.10	-0.01
8 p-Terphenyl-d14	11.06	10.56	11.56	11.06	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

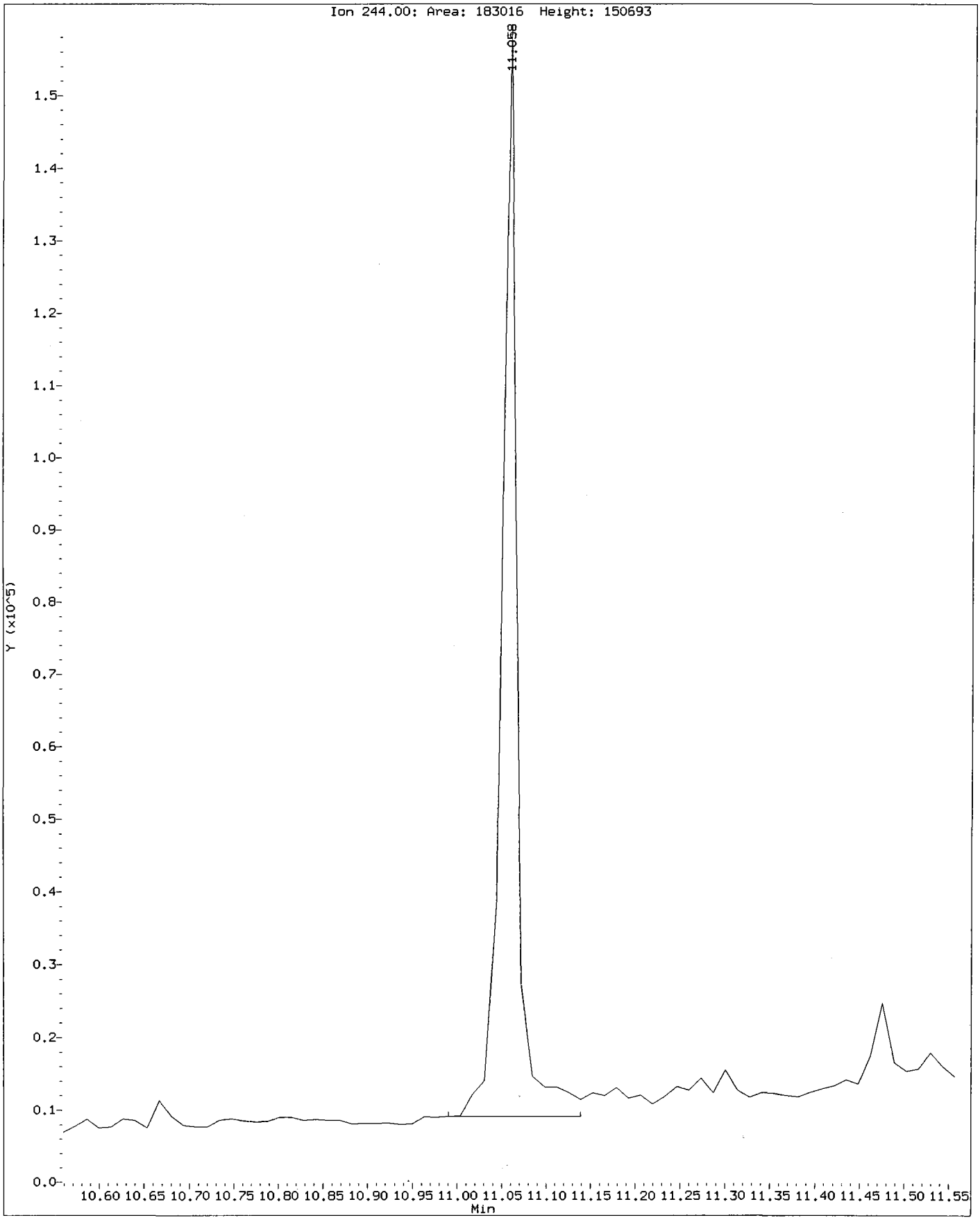
Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: OC67A
Level: LOW
Data Type: MS DATA
SpikeList File: TBTsed.spk
Sublist File: SED.sub
Method File: /chem3/nt2.i/20081211.b/lowbts.m
Misc Info: 08-32584

Client SDG: OC67
Fraction: SV
Client Smp ID: EB-SE-03-ZZ-081015
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 Tripropyl Tin (Hex	40.78	34.80	85.33	25-96
$ 6 Tripentyl Tin (Hex	40.78	30.77	75.45	30-136

Data File: /chem3/nt2.i/20081211.b/oc67a.d
Injection Date: 11-DEC-2008 16:19
Instrument: nt2.i
Client Sample ID: EB-SE-03-ZZ-081015

Compound: p-Terphenyl-d14
CAS Number:

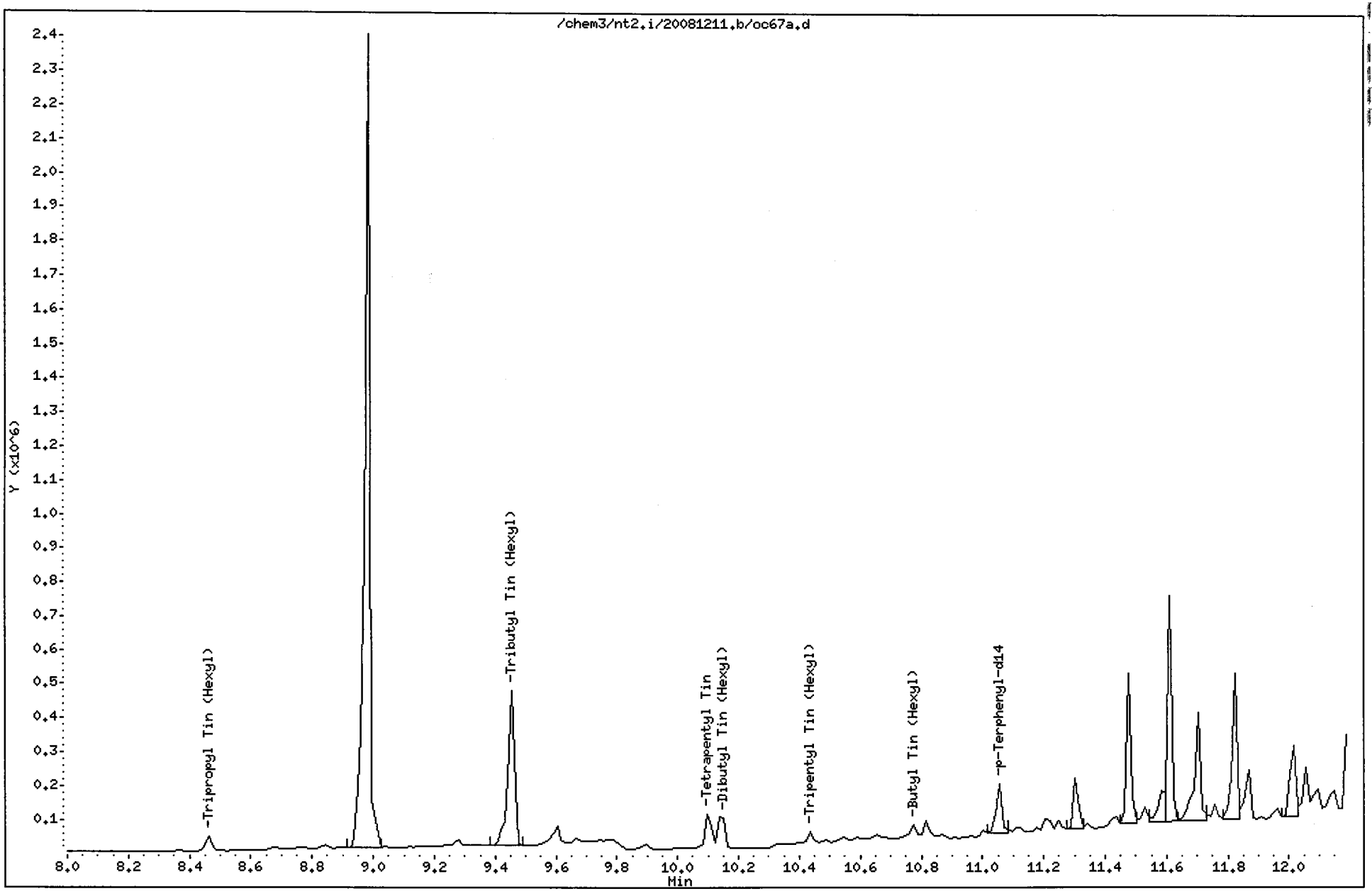


Data File: /chem3/nt2.i/20081211.b/oc67a.d
Date : 11-DEC-2008 16:19
Client ID: EB-SE-03-ZZ-081015
Sample Info: OC67A

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



Data File: /chem3/nt2.i/20081211.b/oc67a.d

Date : 11-DEC-2008 16:19

Client ID: EB-SE-03-ZZ-081015

Instrument: nt2.i

Sample Info: OC67A

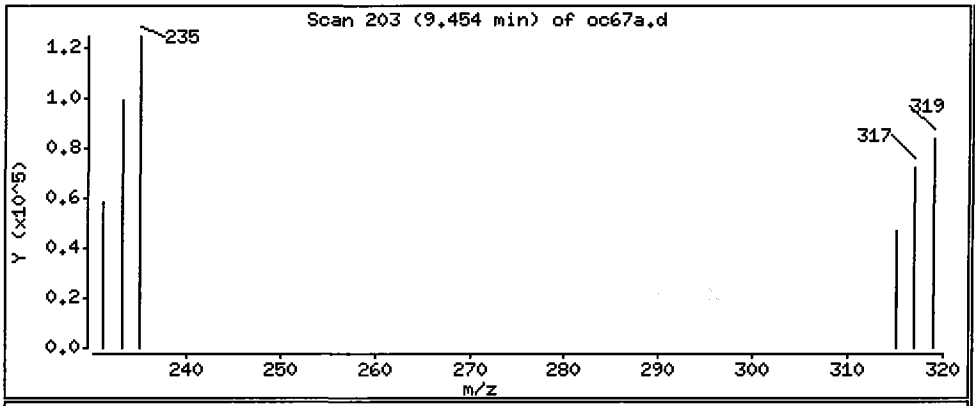
Operator: VTS

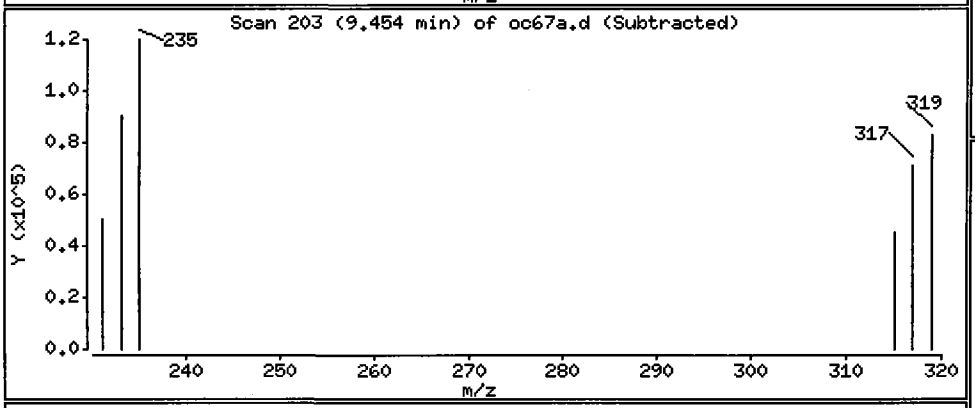
Column phase: ZB-5

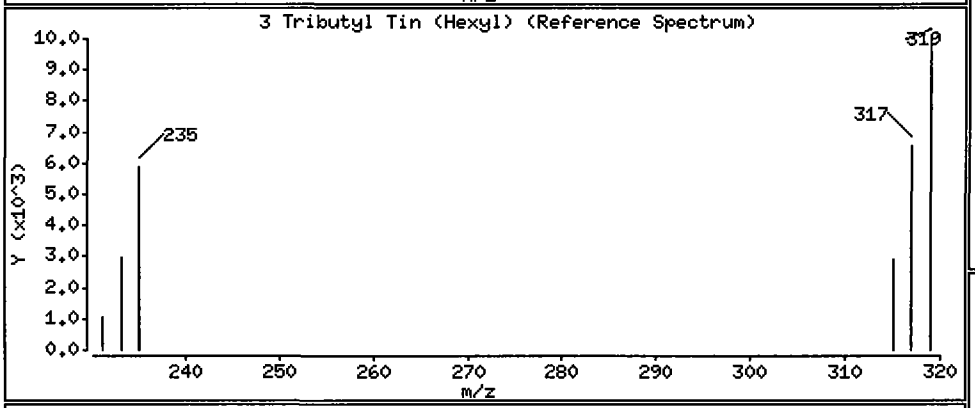
Column diameter: 0.25

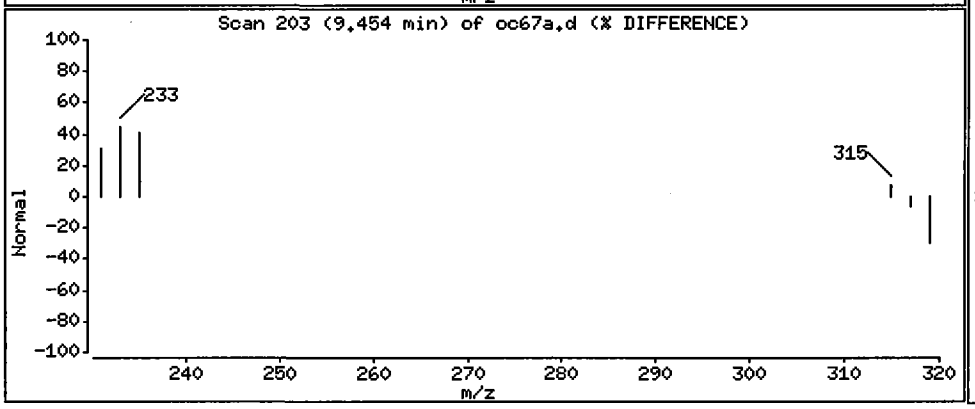
3 Tributyl Tin (Hexyl)

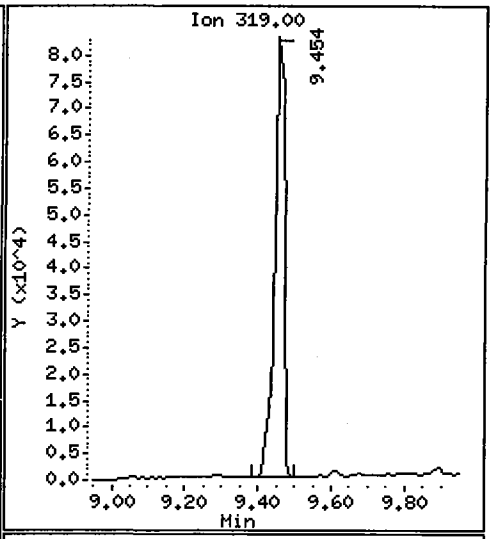
Concentration: 266.0 ug/kg

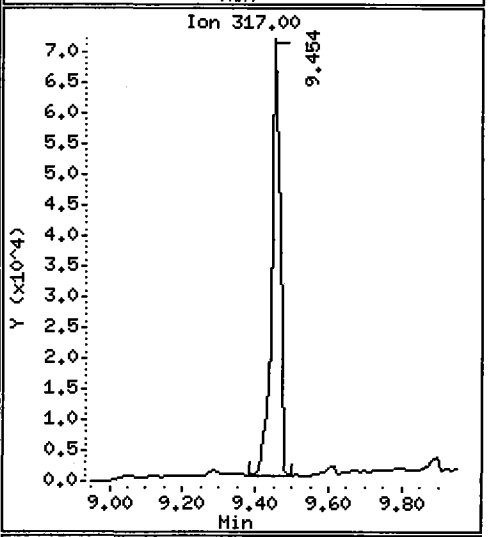


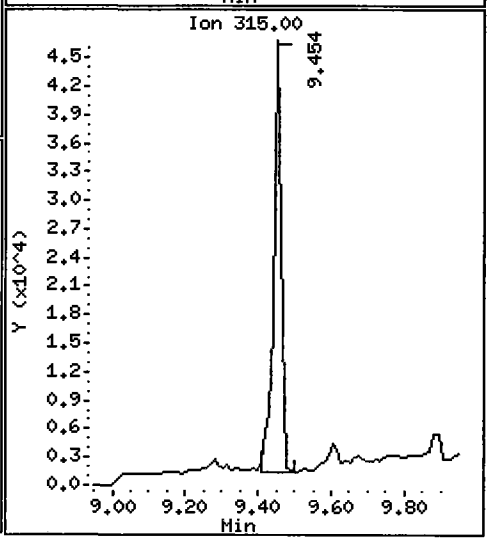












Data File: /chem3/nt2.i/20081211.b/oc67a.d

Date : 11-DEC-2008 16:19

Client ID: EB-SE-03-ZZ-081015

Instrument: nt2.i

Sample Info: OC67A

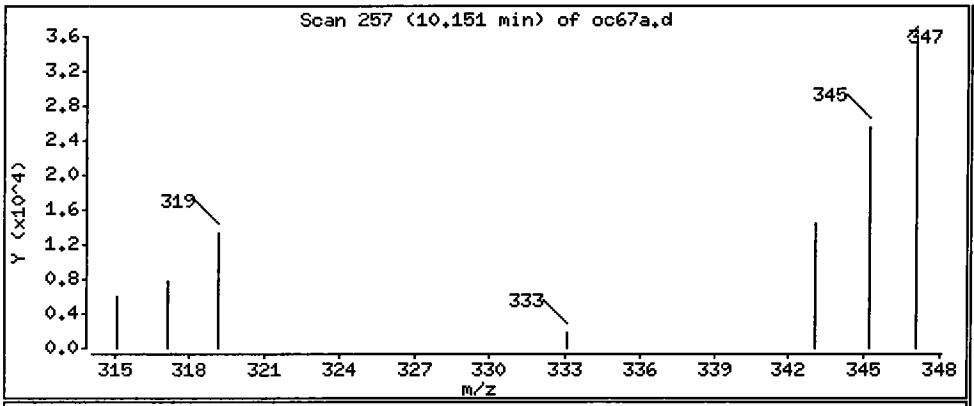
Operator: VTS

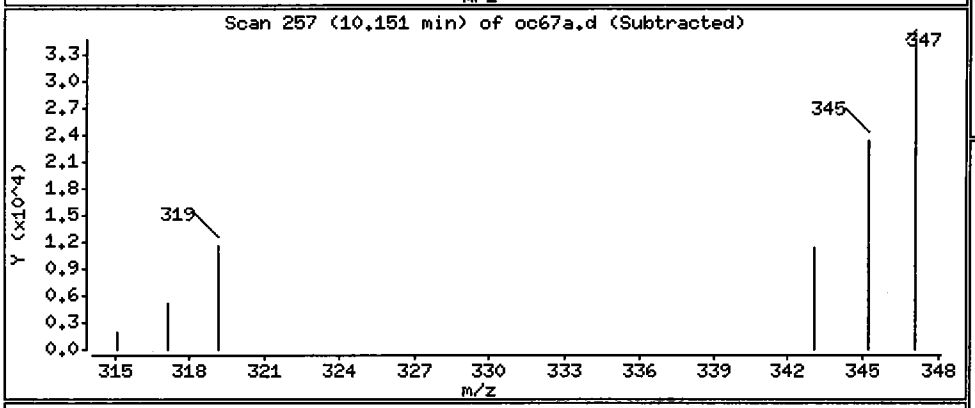
Column phase: ZB-5

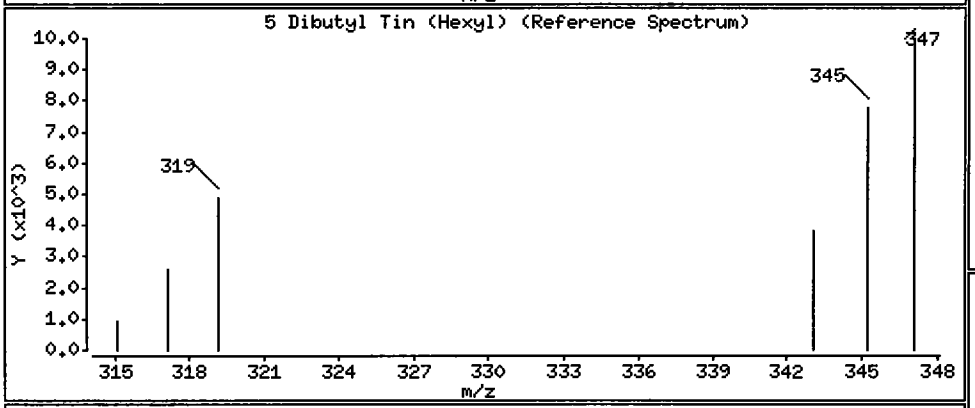
Column diameter: 0.25

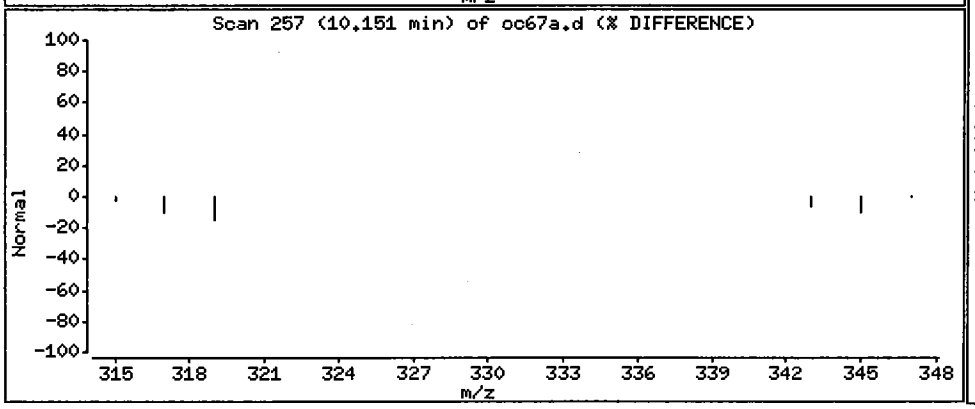
5 Dibutyl Tin (Hexyl)

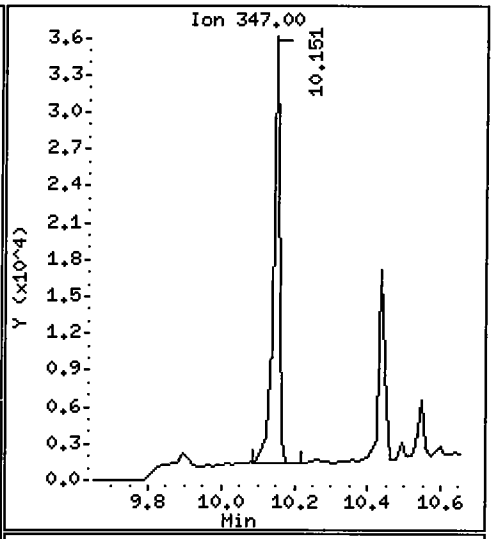
Concentration: 90.40 ug/kg

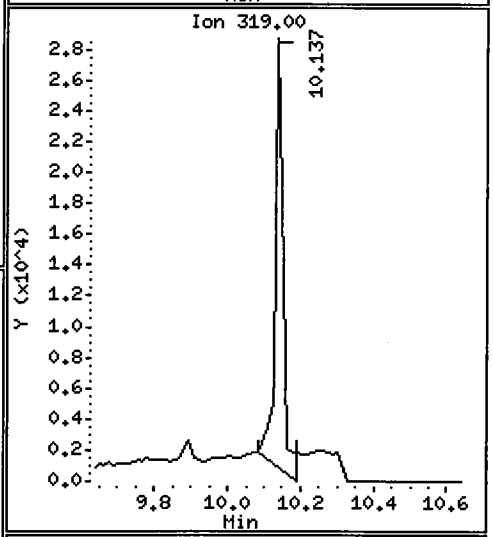


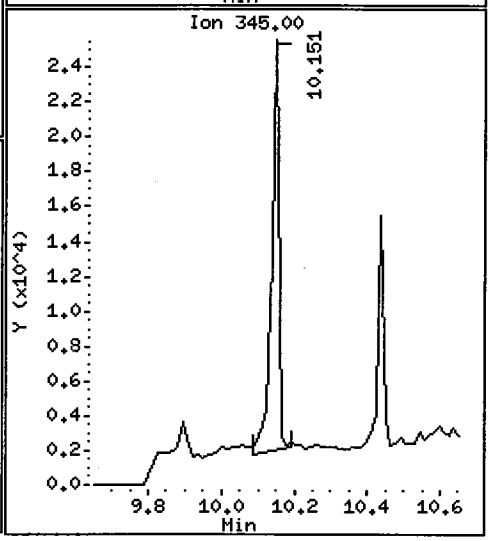












Data File: /chem3/nt2.i/20081211.b/oc67a.d

Date : 11-DEC-2008 16:19

Client ID: EB-SE-03-ZZ-081015

Instrument: nt2.i

Sample Info: OC67A

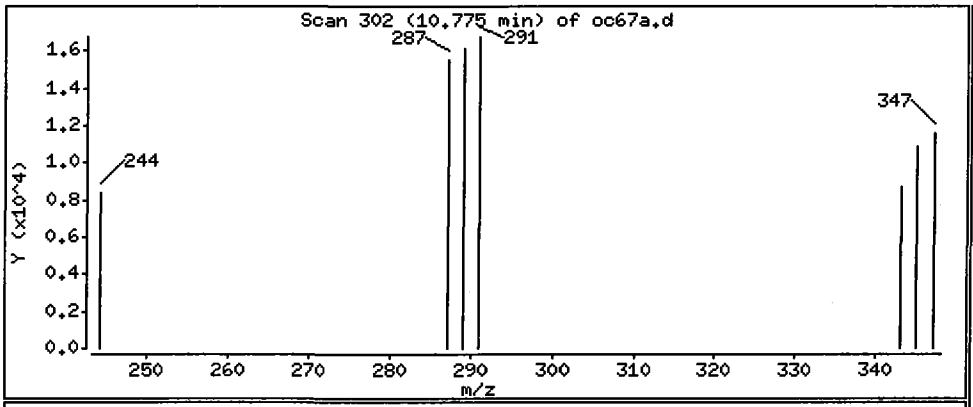
Operator: VTS

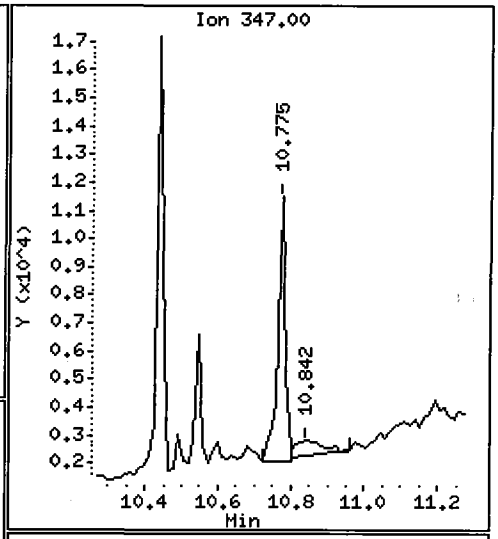
Column phase: ZB-5

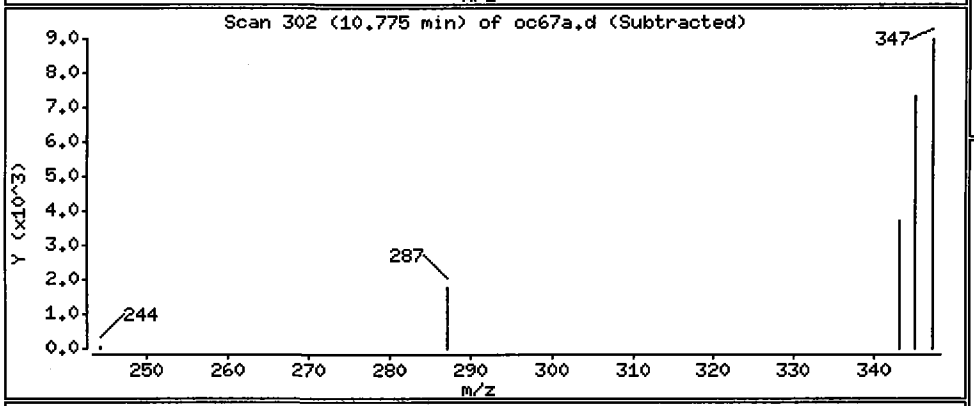
Column diameter: 0.25

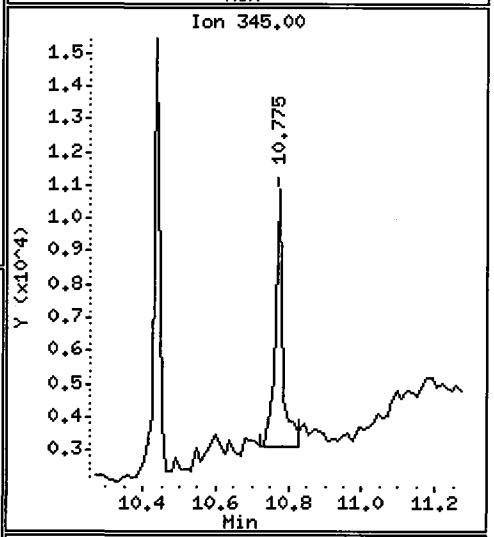
7 Butyl Tin (Hexyl)

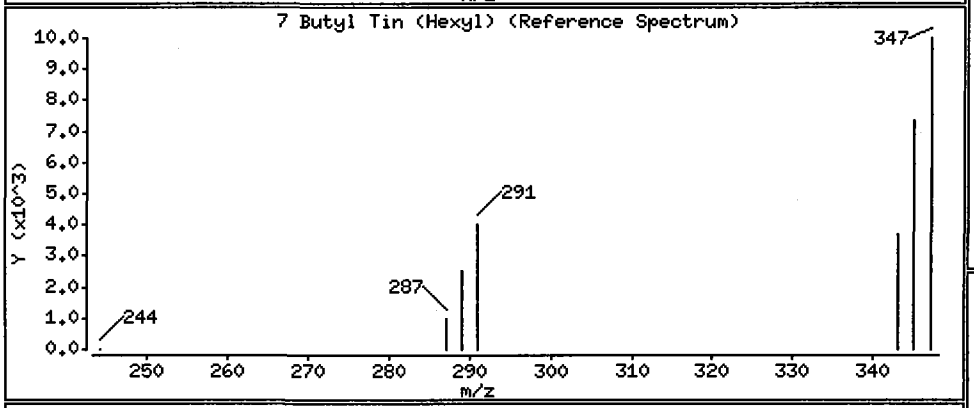
Concentration: 20.25 ug/kg

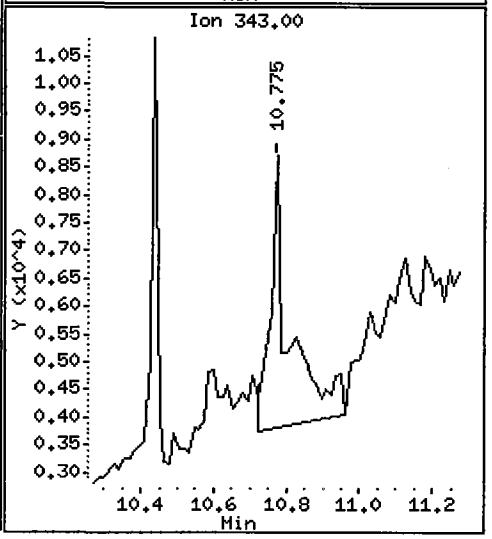


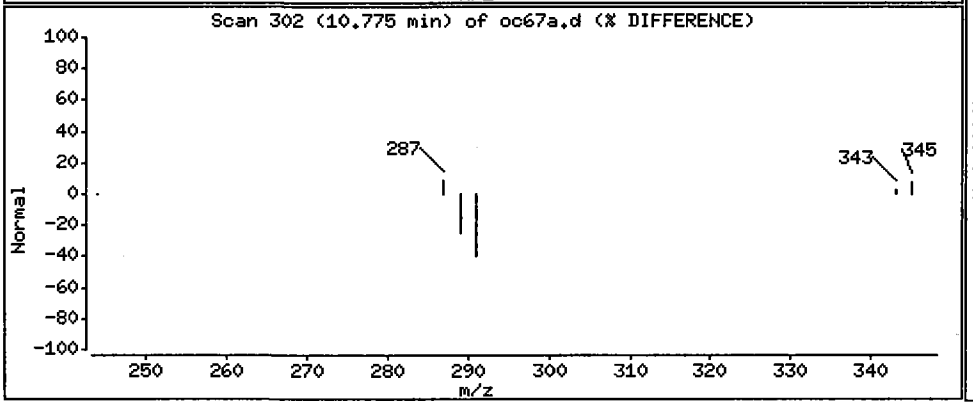












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: EB-SE-03-ZZ-081015
DUPLICATE

Lab Sample ID: OC67A
LIMS ID: 08-32584
Matrix: Sediment
Data Release Authorized:
Reported: 12/12/08

QC Report No: OC67-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/15/08
Date Received: 10/15/08

Date Extracted: 12/09/08
Date Analyzed: 12/11/08 16:39
Instrument/Analyst: NT2/VTS
Silica Gel Cleanup: No

Sample Amount: 5.69 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes
Moisture: 31.2%

CAS Number	Analyte	RL	Result		RPD
TBT_ION	**Tributyltin Ion**	**3.4**	**510**	**E**	83.3%
DBT_ION	**Dibutyltin Ion**	**5.1**	**110**		71.6%
BT_ION	**Butyltin Ion**	**3.6**	**22**		91.4%

Reported in µg/kg (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	129%
Tripentyl Tin Chloride	91.8%

Analytical Resources, Inc.

Butyl Tins - GC/MS SIM

Data file : /chem3/nt2.i/20081211.b/oc67adup.d
Lab Smp Id: OC67ADUP Client Smp ID: EB-SE-03-ZZ-081 DUP
Inj Date : 11-DEC-2008 16:39
Operator : VTS Inst ID: nt2.i
Smp Info : OC67ADUP
Misc Info : 08-32584
Comment : 2 ul Injection
Method : /chem3/nt2.i/20081211.b/lowbts.m
Meth Date : 11-Dec-2008 15:56 van Quant Type: ISTD
Cal Date : 11-DEC-2008 13:05 Cal File: ic1211f.d
Als bottle: 17 QC Sample: DUP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SED.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Effective Final Volume of extract (uL)
Ws	8.27000	Weight of sample extracted (g)
M	31.20000	Percent Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	1 Tripropyl Tin (Hexyl)	291	8.465	8.465	(0.838)	39990	0.75866	66.67(RM)
	2 Tetrabutyl Tin	289	Compound Not Detected.					
	3 Tributyl Tin (Hexyl)	319	9.456	9.454	(0.936)	321725	7.47437	656.8(R)E
*	4 Tetrapentyl Tin	333	10.098	10.098	(1.000)	142463	2.00000	
	5 Dibutyl Tin (Hexyl)	347	10.151	10.152	(0.918)	72239	2.09445	184.1
$	6 Tripentyl Tin (Hexyl)	345	10.438	10.439	(0.944)	18910	0.52098	45.78
	7 Butyl Tin (Hexyl)	347	10.775	10.776	(0.974)	32032	0.62054	54.53
*	8 p-Terphenyl-d14	244	11.058	11.059	(1.000)	170660	0.20000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

VTS
12-12-08

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: oc67adup.d
Lab Smp Id: OC67ADUP
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20081211.b/lowbts.m
Misc Info: 08-32584

Calibration Date: 11-DEC-2008
Calibration Time: 11:28
Client Smp ID: EB-SE-03-ZZ-081
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	264254	132127	528508	142463	-46.09
8 p-Terphenyl-d14	275807	137904	551614	170660	-38.12

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	10.10	9.60	10.60	10.10	-0.01
8 p-Terphenyl-d14	11.06	10.56	11.56	11.06	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: OC67ADUP
Level: LOW
Data Type: MS DATA
SpikeList File: TBTsed.spk
Sublist File: SED.sub
Method File: /chem3/nt2.i/20081211.b/lowbts.m
Misc Info: 08-32584

Client SDG: OC67
Fraction: SV
Client Smp ID: EB-SE-03-ZZ-081 DUP
Operator: VTS
SampleType: DUP
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3 Tributyl Tin (Hexy	43.94	656.8	1494.87*	20-150

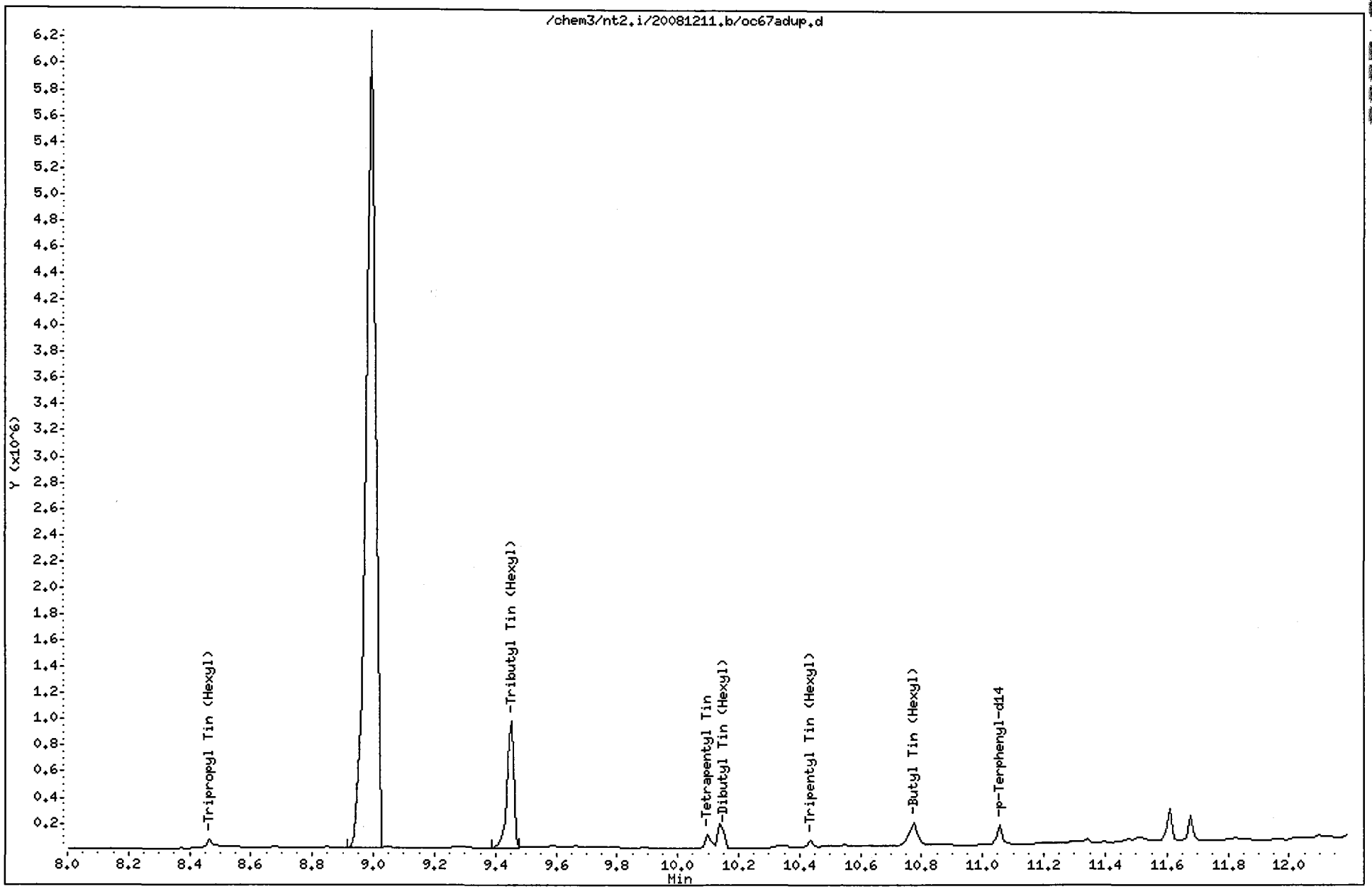
SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 Tripropyl Tin (Hex	43.94	66.67	151.73*	25-96
$ 6 Tripentyl Tin (Hex	43.94	45.78	104.20	30-136

Data File: /chem3/nt2.i/20081211.b/oc67adup.d
Date : 11-DEC-2008 16:39
Client ID: EB-SE-03-ZZ-081 DUP
Sample Info: OC67ADUP

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



OC67-055519

Data File: /chem3/nt2.i/20081211.b/oc67adup.d

Date : 11-DEC-2008 16:39

Client ID: EB-SE-03-ZZ-081 DUP

Instrument: nt2.i

Sample Info: OC67ADUP

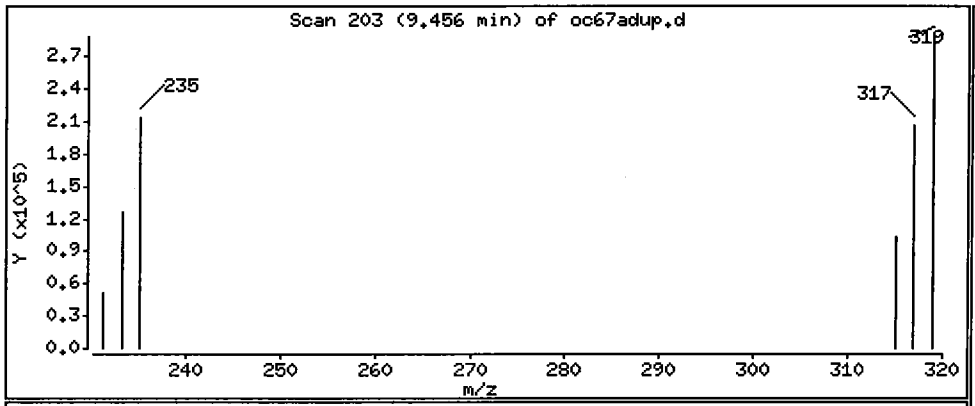
Operator: VTS

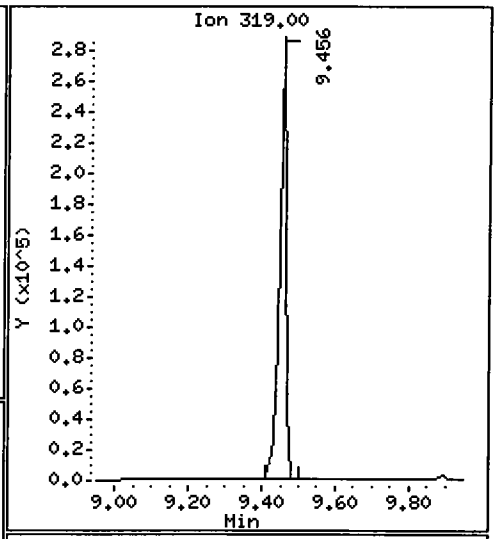
Column phase: ZB-5

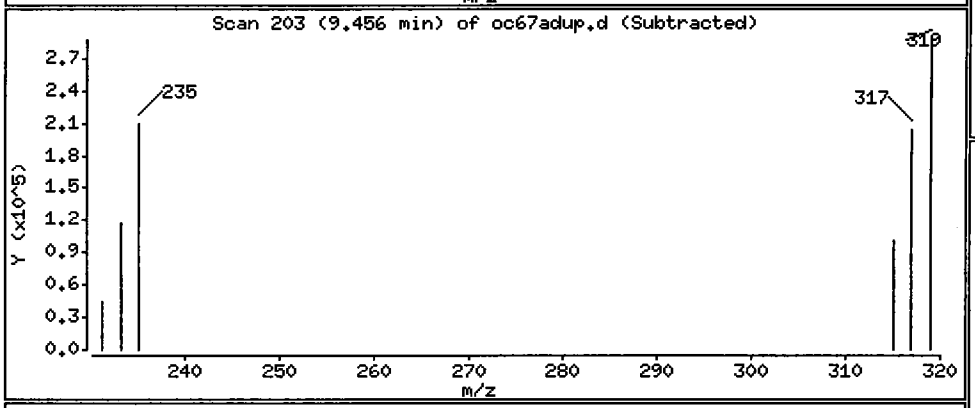
Column diameter: 0.25

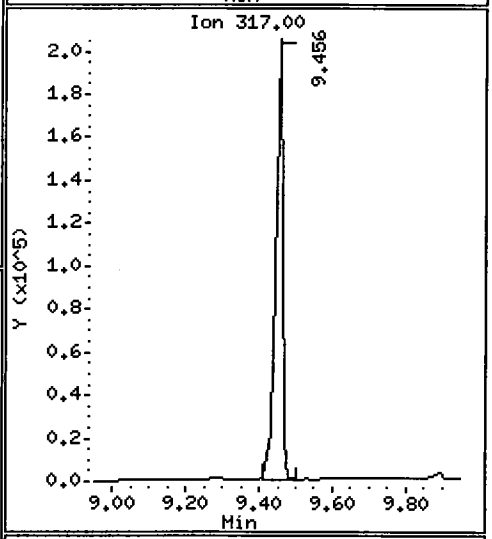
3 Tributyl Tin (Hexyl)

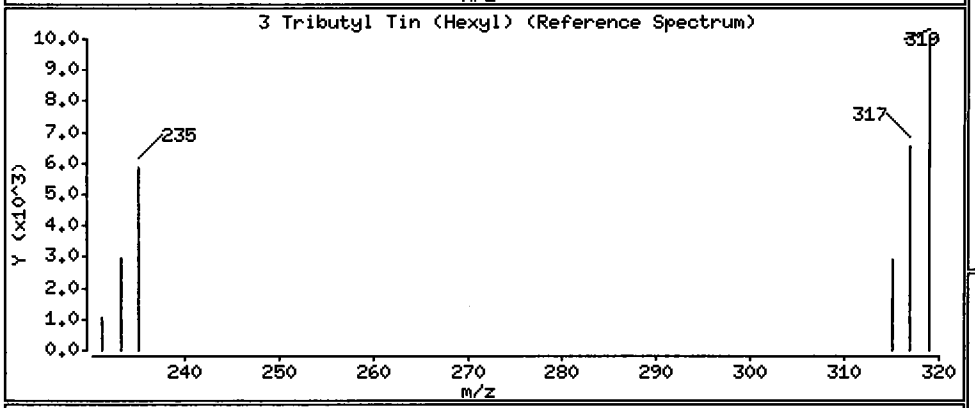
Concentration: 656.8 ug/kg

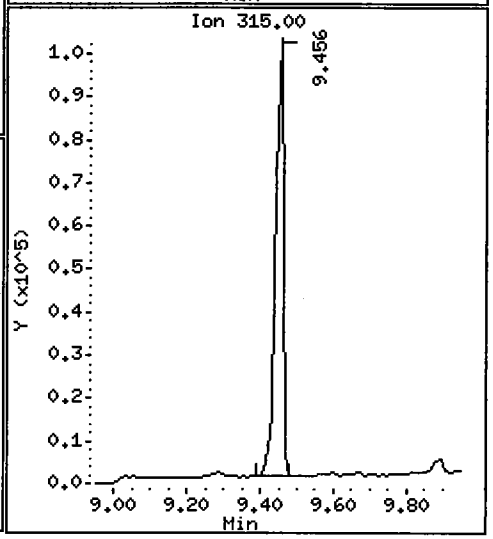


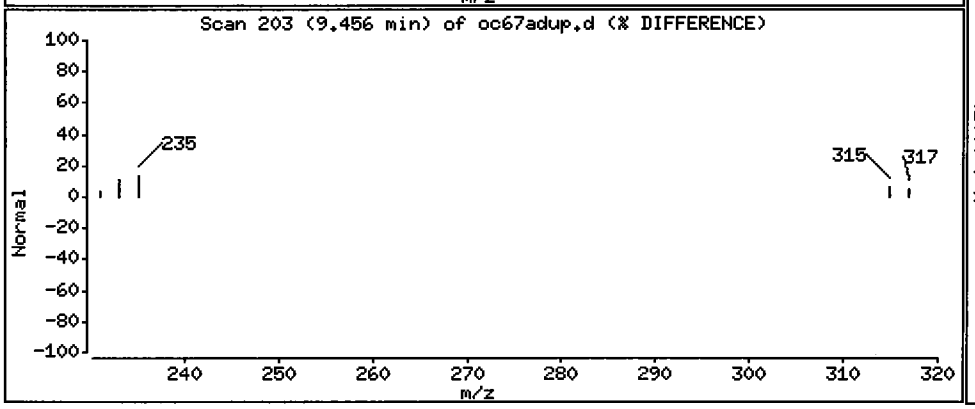












Data File: /chem3/nt2.i/20081211.b/oc67adup.d

Date : 11-DEC-2008 16:39

Client ID: EB-SE-03-ZZ-081 DUP

Instrument: nt2.i

Sample Info: OC67ADUP

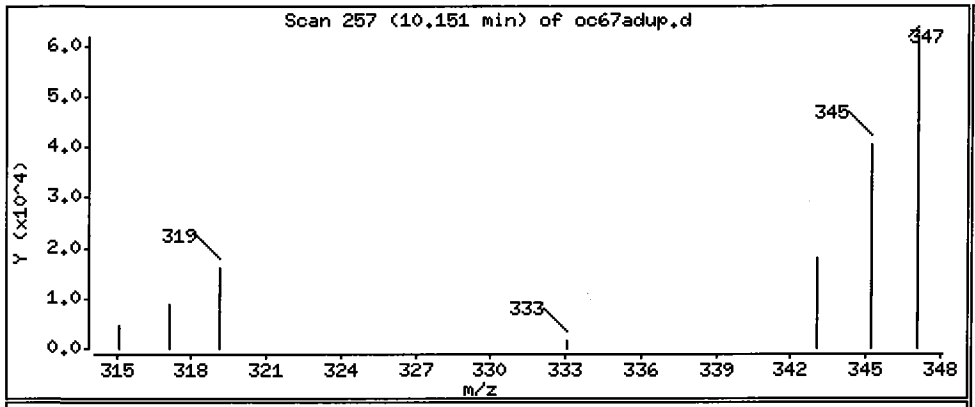
Operator: VTS

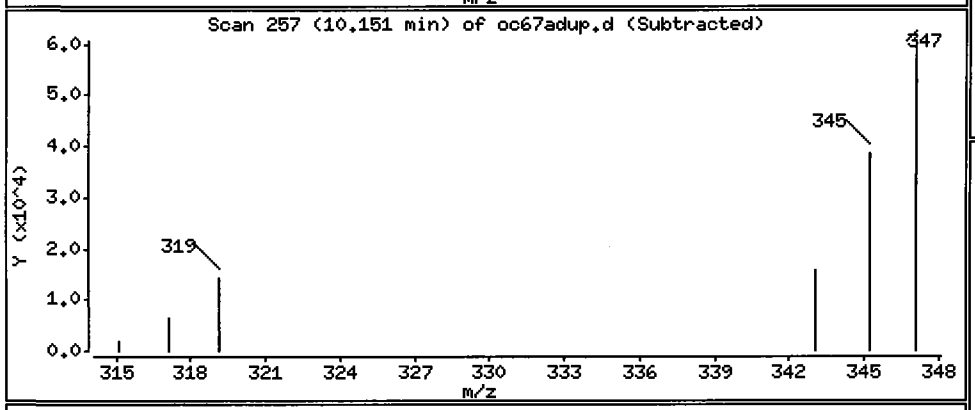
Column phase: ZB-5

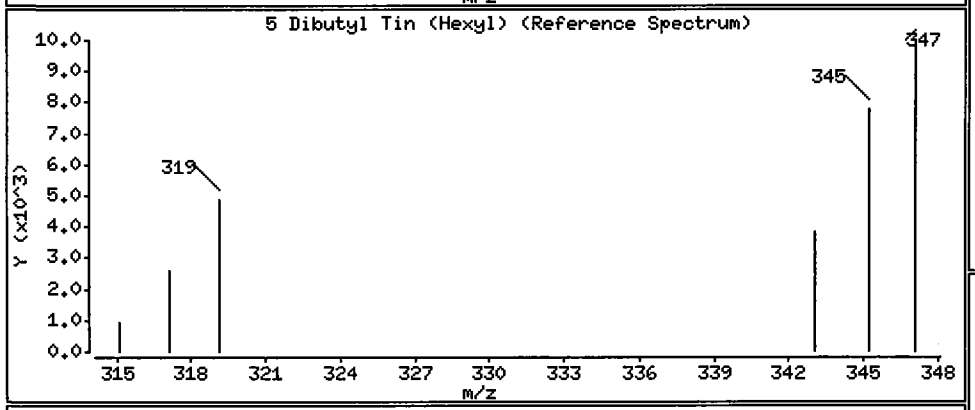
Column diameter: 0.25

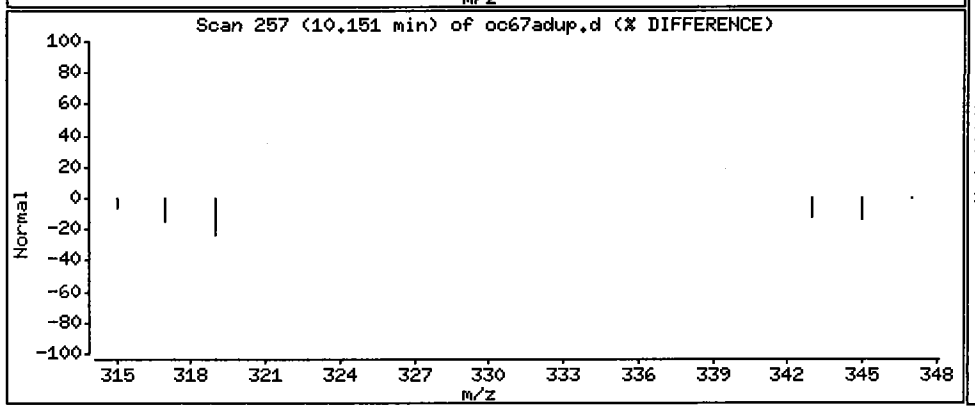
5 Dibutyl Tin (Hexyl)

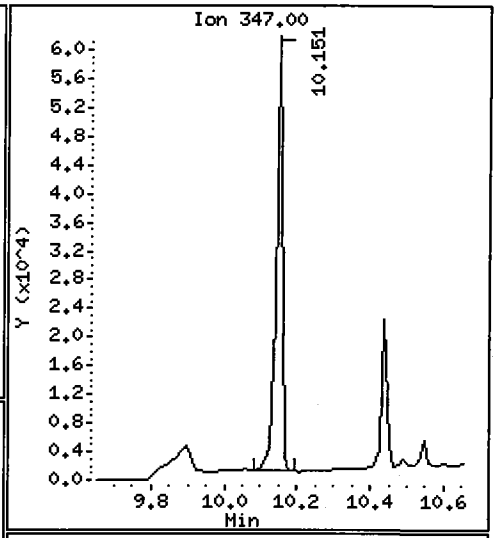
Concentration: 184.1 ug/kg

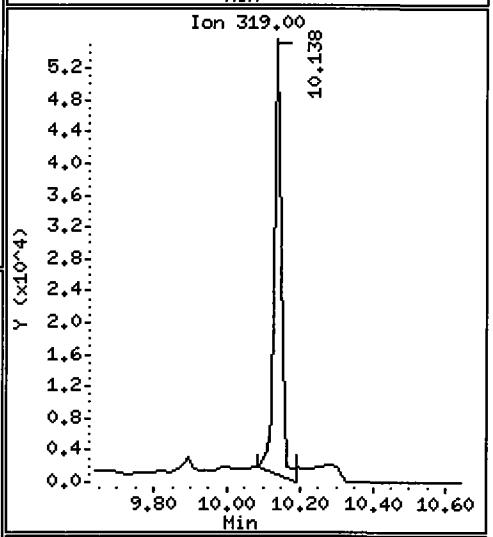


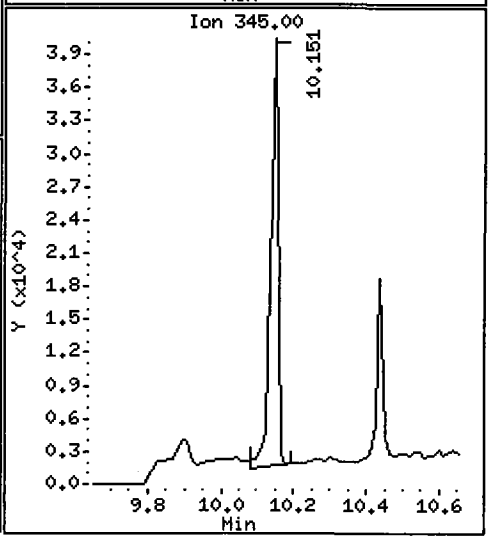












Data File: /chem3/nt2.i/20081211.b/oc67adup.d

Date : 11-DEC-2008 16:39

Client ID: EB-SE-03-ZZ-081 DUP

Instrument: nt2.i

Sample Info: OC67ADUP

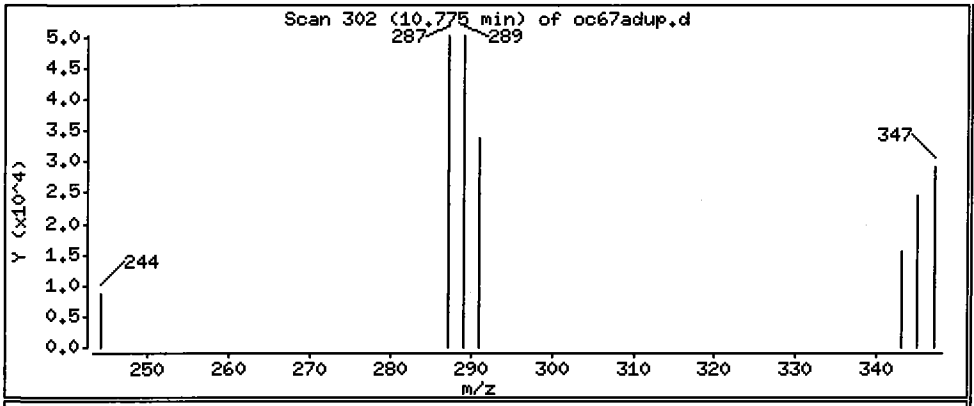
Operator: VTS

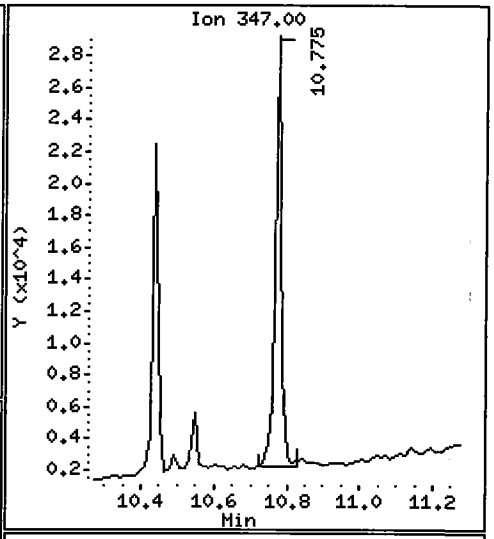
Column phase: ZB-5

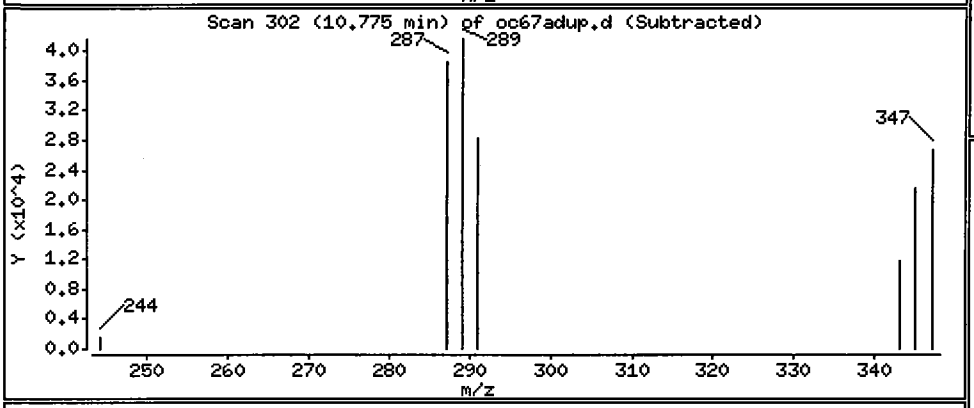
Column diameter: 0.25

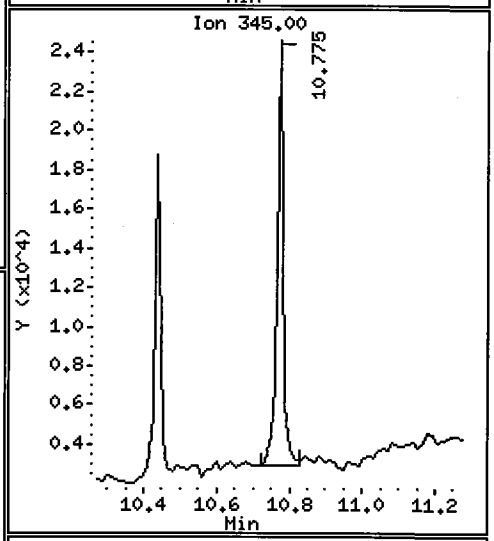
7 Butyl Tin (Hexyl)

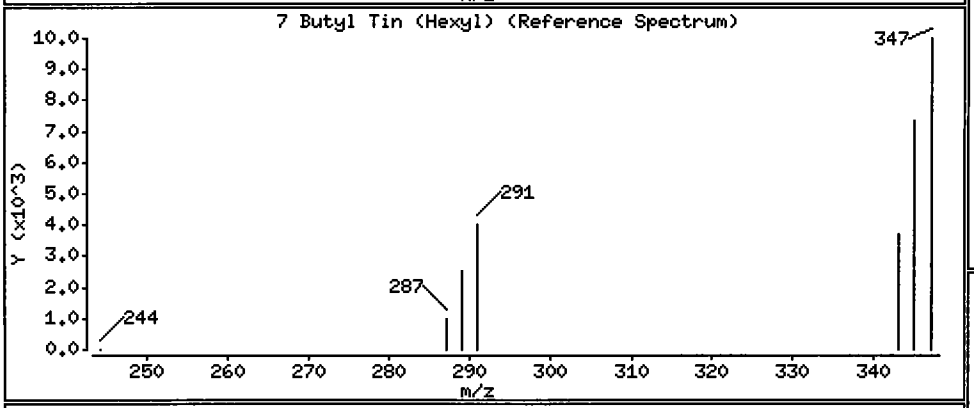
Concentration: 54.53 ug/kg

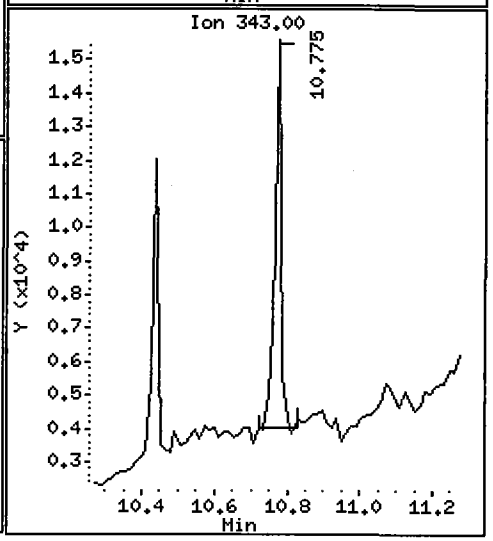


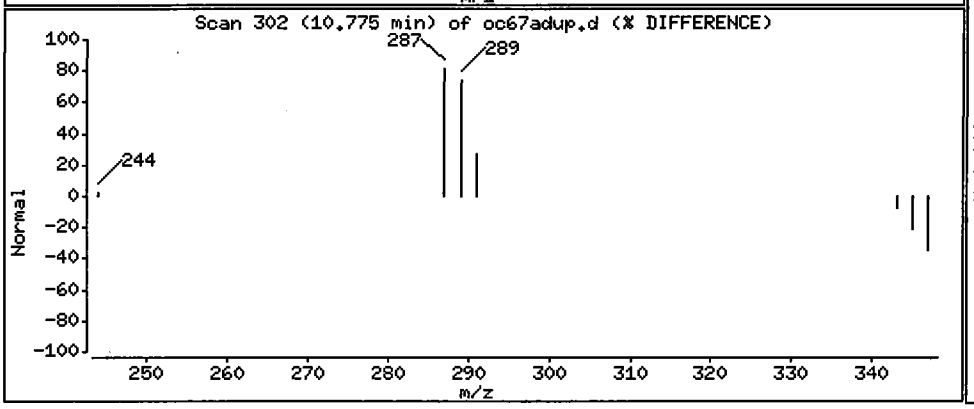












TBT Analysis
Standard Raw Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OC67

prepared
by

Analytical Resources, Inc.

6B

SEMIVOLATILE 8270-C INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: OC67 Project: EDDON BOATYARD

Instrument ID: NT2 Calibration Date: 12/11/08

LAB FILE ID: RRF0.05=IC1211C RRF0.2=IC1211E RRF0.5=IC1211A
RRF1 =IC1211F RRF2 =IC1211D RRF4 =IC1211B

COMPOUND	RRF 0.05	RRF 0.2	RRF 0.5	RRF 1	RRF 2	RRF 4	___ RRF	%RSD /R^2
Tributyl Tin (Hexyl)	0.556	0.578	0.610	0.646	0.634	0.601	0.604	5.6
Dibutyl Tin (Hexyl)	0.035	0.038	0.041	0.043	0.042	0.044	0.040	8.0
Butyl Tin (Hexyl)	0.051	0.056	0.062	0.065	0.062	0.066	0.060	9.4
Tetrabutyl Tin	0.678	0.697	0.737	0.769	0.742	0.712	0.722	4.6
Tripropyl Tin (Hexyl)	0.668	0.718	0.763	0.795	0.767	0.729	0.740	6.1
Tripentyl Tin (Hexyl)	0.035	0.040	0.044	0.045	0.044	0.047	0.042	10.5

* Compounds with maximum %RSD = 30%
~ Compounds with minimum average RRF = .05
<- Outside QC limits

FORM VI SV-1

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 11-DEC-2008 11:28
End Cal Date : 11-DEC-2008 13:05
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt2.i/20081211.b/lowbts.m
Cal Date : 11-Dec-2008 13:38 van
Curve Type : Average

Calibration File Names:
Level 1: /chem3/nt2.i/20081211.b/ic1211c.d
Level 2: /chem3/nt2.i/20081211.b/ic1211e.d
Level 3: /chem3/nt2.i/20081211.b/ic1211a.d
Level 4: /chem3/nt2.i/20081211.b/ic1211f.d
Level 5: /chem3/nt2.i/20081211.b/ic1211d.d
Level 6: /chem3/nt2.i/20081211.b/ic1211b.d

Compound	0.05000 Level 1	0.20000 Level 2	0.50000 Level 3	1.000 Level 4	2.000 Level 5	4.000 Level 6	___ RRF	% RSD
2 Tetrabutyl Tin	0.67770	0.69672	0.73731	0.76888	0.74207	0.71181	0.72241	4.608
3 Tributyl Tin (Hexyl)	0.55609	0.57810	0.61055	0.64587	0.63435	0.60071	0.60428	5.584
5 Dibutyl Tin (Hexyl)	0.03515	0.03825	0.04065	0.04313	0.04157	0.04377	0.04042	8.010
7 Butyl Tin (Hexyl)	0.05099	0.05658	0.06222	0.06490	0.06217	0.06610	0.06049	9.416
$ 1 Tripropyl Tin (Hexyl)	0.66820	0.71758	0.76277	0.79532	0.76716	0.72905	0.74001	6.072
$ 6 Tripentyl Tin (Hexyl)	0.03497	0.03963	0.04377	0.04530	0.04450	0.04706	0.04254	10.468

Analytical Resources, Inc.

Butyl Tins - GC/MS SIM

Data file : /chem3/nt2.i/20081211.b/ic1211a.d
Lab Smp Id: IC1211A
Inj Date : 11-DEC-2008 11:28
Operator : VTS Inst ID: nt2.i
Smp Info : IC1211A
Misc Info : TBT .5
Comment : 2 ul Injection
Method : /chem3/nt2.i/20081211.b/lowbts.m
Meth Date : 11-Dec-2008 13:39 van Quant Type: ISTD
Cal Date : 11-DEC-2008 11:28 Cal File: ic1211a.d
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SED.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 Tripropyl Tin (Hexyl)	291	8.465	8.465	(0.838)	50391	0.50000	0.5000
	2 Tetrabutyl Tin	289	8.684	8.684	(0.860)	48709	0.50000	0.5000
	3 Tributyl Tin (Hexyl)	319	9.454	9.454	(0.936)	40335	0.50000	0.5000
*	4 Tetrapentyl Tin	333	10.098	10.098	(1.000)	264254	2.00000	
	5 Dibutyl Tin (Hexyl)	347	10.152	10.152	(0.918)	56064	1.00000	1.0000
$	6 Tripentyl Tin (Hexyl)	345	10.439	10.439	(0.944)	60360	1.00000	1.0000
	7 Butyl Tin (Hexyl)	347	10.776	10.776	(0.974)	85806	1.00000	1.0000
*	8 p-Terphenyl-d14	244	11.059	11.059	(1.000)	275807	0.20000	

VTS 12-11-2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic1211a.d
Lab Smp Id: IC1211A
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20081211.b/lowbts.m
Misc Info: TBT .5

Calibration Date: 11-DEC-2008
Calibration Time: 11:28

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	264254	132127	528508	264254	0.00
8 p-Terphenyl-d14	275807	137904	551614	275807	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	10.10	9.60	10.60	10.10	0.00
8 p-Terphenyl-d14	11.06	10.56	11.56	11.06	0.00

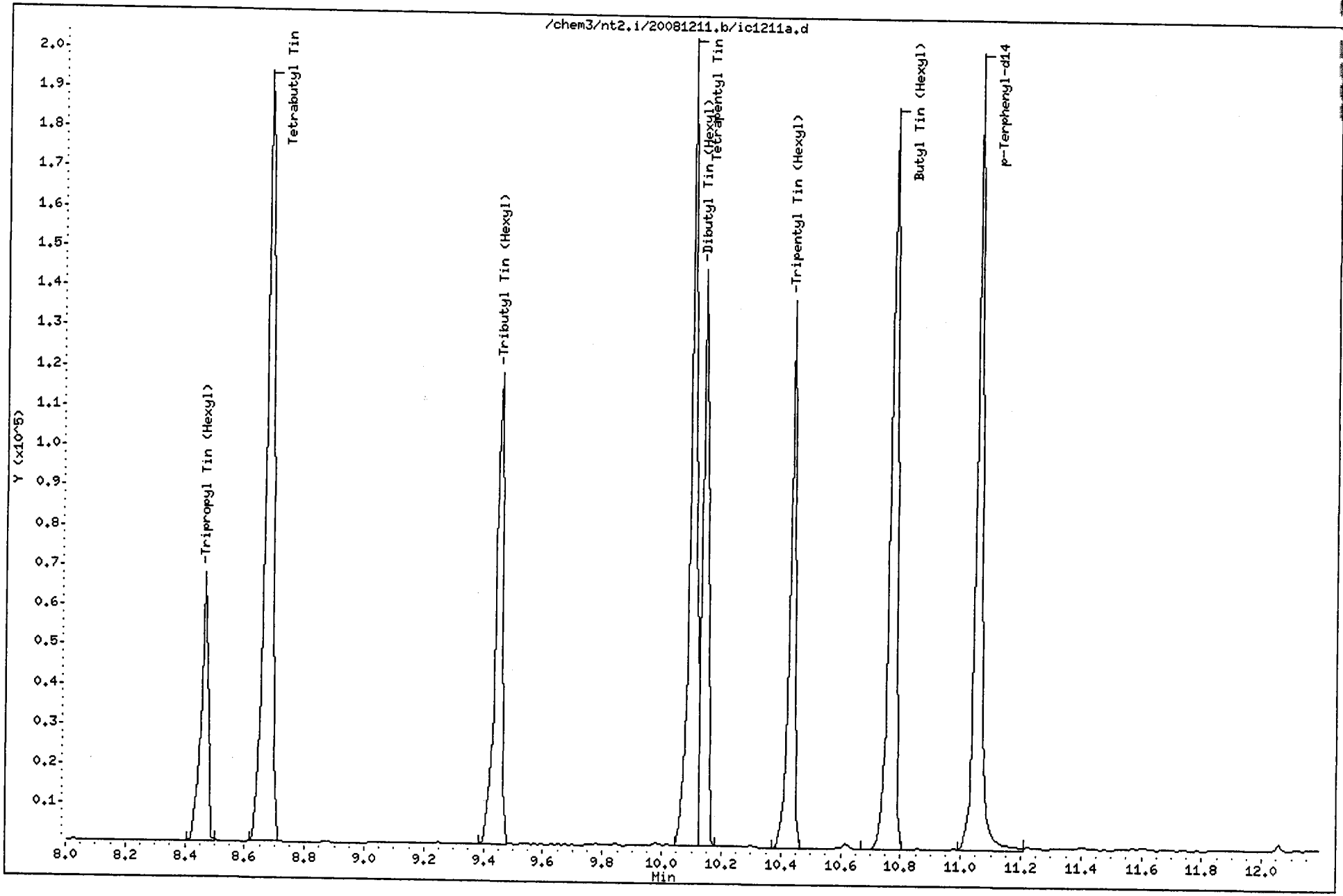
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20081211.b/ic1211a.d
Date : 11-DEC-2008 11:28
Client ID:
Sample Info: IC1211A

Column phase: ZB-5

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25



Analytical Resources, Inc.

Butyl Tins - GC/MS SIM

Data file : /chem3/nt2.i/20081211.b/ic1211b.d
Lab Smp Id: IC1211B
Inj Date : 11-DEC-2008 11:48
Operator : VTS
Inst ID: nt2.i
Smp Info : IC1211B
Misc Info : TBT 4
Comment : 2 ul Injection
Method : /chem3/nt2.i/20081211.b/lowbts.m
Meth Date : 11-Dec-2008 13:39 van
Quant Type: ISTD
Cal Date : 11-DEC-2008 11:48
Cal File: ic1211b.d
Als bottle: 3
Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: SED.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 Tripropyl Tin (Hexyl)	291	8.464	8.465	(0.838)	409229	4.00000	3.997
	2 Tetrabutyl Tin	289	8.684	8.684	(0.860)	399552	4.00000	3.998
	3 Tributyl Tin (Hexyl)	319	9.455	9.454	(0.936)	337193	4.00000	3.968
*	4 Tetrapentyl Tin	333	10.097	10.098	(1.000)	280661	2.00000	
	5 Dibutyl Tin (Hexyl)	347	10.151	10.152	(0.918)	455192	8.00000	8.295
$	6 Tripentyl Tin (Hexyl)	345	10.437	10.439	(0.944)	489399	8.00000	8.290
	7 Butyl Tin (Hexyl)	347	10.774	10.776	(0.974)	687480	8.00000	8.242
*	8 p-Terphenyl-d14	244	11.057	11.059	(1.000)	260001	0.20000	

UJ
12.11.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic1211b.d
Lab Smp Id: IC1211B
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20081211.b/lowbts.m
Misc Info: TBT 4

Calibration Date: 11-DEC-2008
Calibration Time: 11:28

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	264254	132127	528508	280661	6.21
8 p-Terphenyl-d14	275807	137904	551614	260001	-5.73

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	10.10	9.60	10.60	10.10	-0.01
8 p-Terphenyl-d14	11.06	10.56	11.56	11.06	-0.01

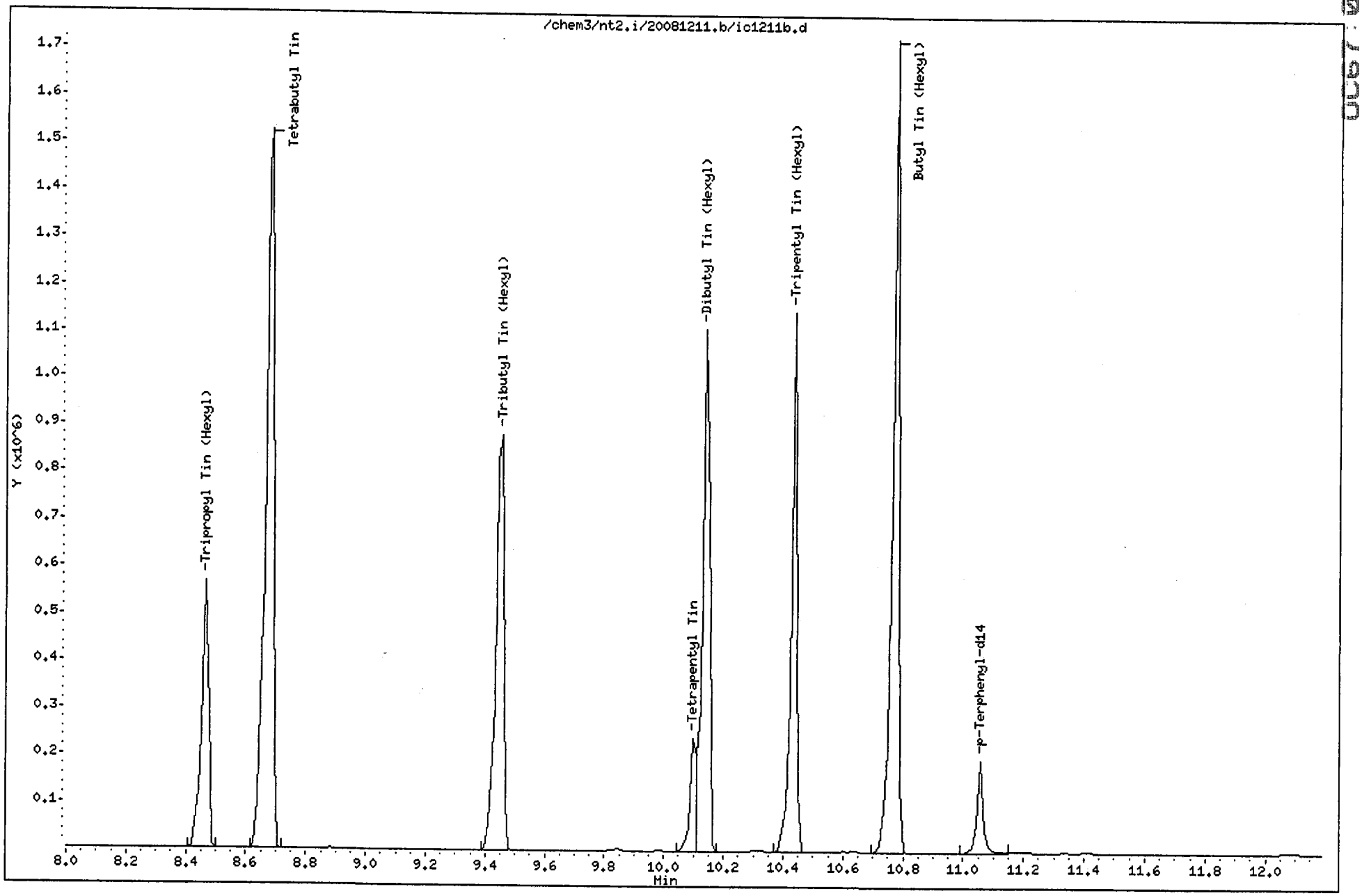
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20081211.b/ic1211b.d
Date : 11-DEC-2008 11:48
Client ID:
Sample Info: IC1211B

Column phase: ZB-5

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25



Analytical Resources, Inc.

Butyl Tins - GC/MS SIM

Data file : /chem3/nt2.i/20081211.b/ic1211c.d
Lab Smp Id: IC1211C
Inj Date : 11-DEC-2008 12:07
Operator : VTS Inst ID: nt2.i
Smp Info : IC1211C
Misc Info : TBT .05
Comment : 2 ul Injection
Method : /chem3/nt2.i/20081211.b/lowbts.m
Meth Date : 11-Dec-2008 13:39 van Quant Type: ISTD
Cal Date : 11-DEC-2008 12:07 Cal File: ic1211c.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SED.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	
$	1 Tripropyl Tin (Hexyl)	291	8.465	8.465	(0.838)	4220	0.05000	0.04359	
	2 Tetrabutyl Tin	289	8.685	8.684	(0.860)	4280	0.05000	0.04578	
	3 Tributyl Tin (Hexyl)	319	9.454	9.454	(0.936)	3512	0.05000	0.04720	
*	4 Tetrapentyl Tin	333	10.098	10.098	(1.000)	252619	2.00000		
	5 Dibutyl Tin (Hexyl)	347	10.152	10.152	(1.000)	4926	0.10000	0.08819	
$	6 Tripentyl Tin (Hexyl)	345	10.439	10.439	(1.000)	4901	0.10000	0.08340	
	7 Butyl Tin (Hexyl)	347	10.776	10.776	(1.000)	7146	0.10000	0.08531	
*	8 p-Terphenyl-d14	244	11.059	11.059	(1.000)	280285	0.20000		(M)

QC Flag Legend

M - Compound response manually integrated.

VTS
12.11.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic1211c.d
Lab Smp Id: IC1211C
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20081211.b/lowbts.m
Misc Info: TBT .05

Calibration Date: 11-DEC-2008
Calibration Time: 11:28

Level:
Sample Type:

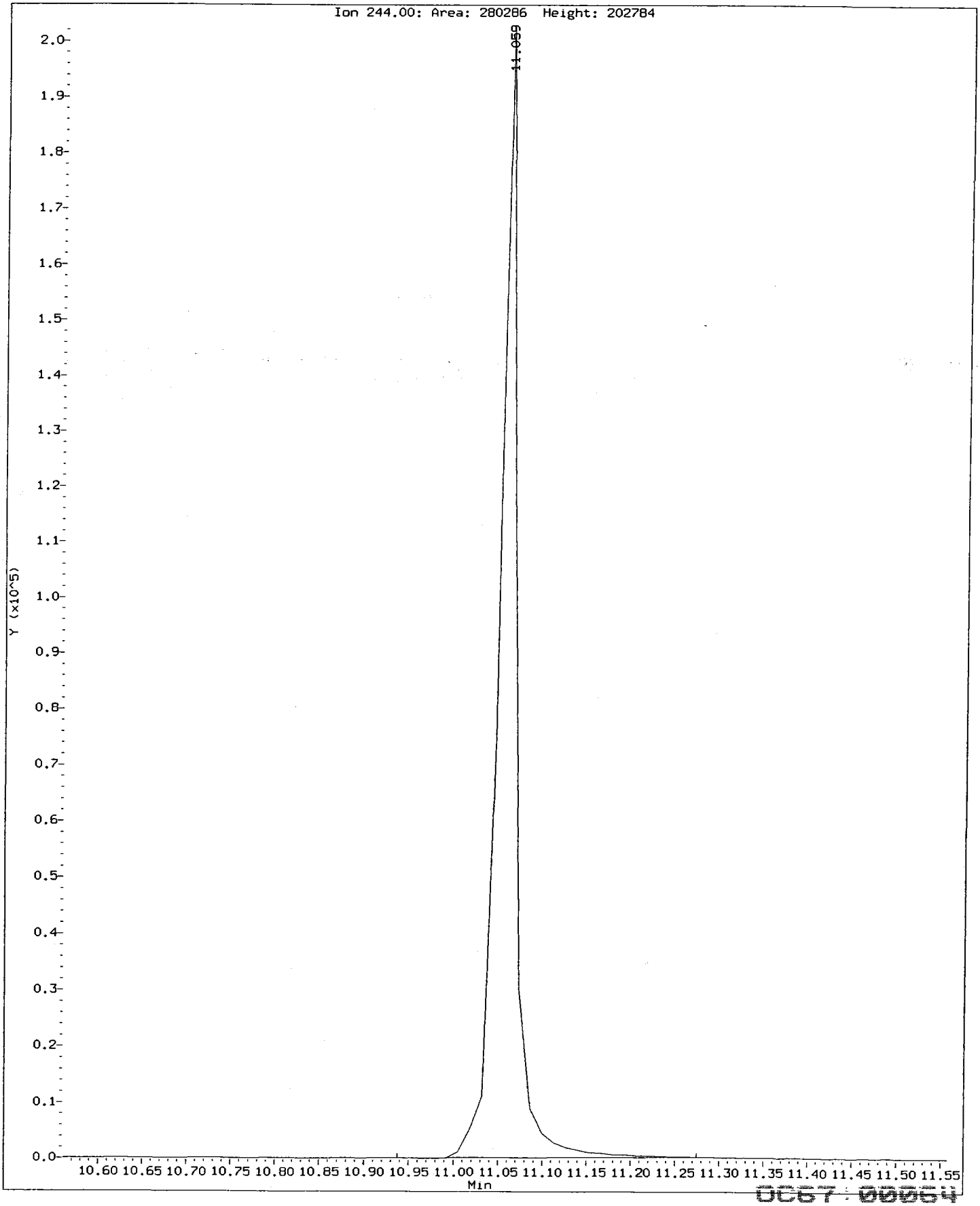
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	264254	132127	528508	252619	-4.40
8 p-Terphenyl-d14	275807	137904	551614	280285	1.62

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	10.10	9.60	10.60	10.10	0.00
8 p-Terphenyl-d14	11.06	10.56	11.56	11.06	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20081211.b/ic1211c.d
Injection Date: 11-DEC-2008 12:07
Instrument: nt2.i
Client Sample ID:

Compound: p-Terphenyl-d14
CAS Number:

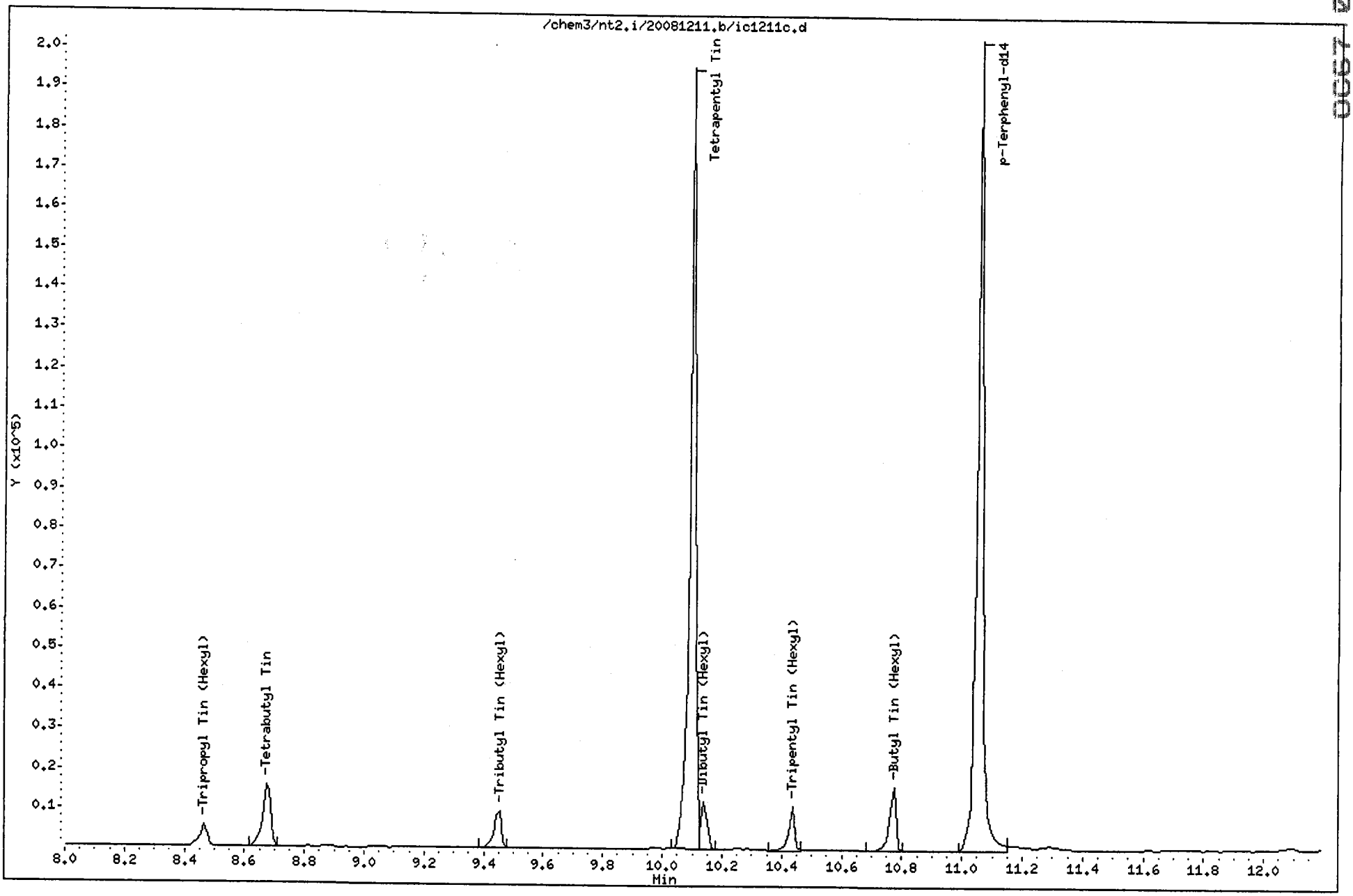


Data File: /chem3/nt2.i/20081211.b/ic1211c.d
Date : 11-DEC-2008 12:07
Client ID:
Sample Info: IC1211C

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



Analytical Resources, Inc.

Butyl Tins - GC/MS SIM

Data file : /chem3/nt2.i/20081211.b/ic1211d.d
Lab Smp Id: IC1211D
Inj Date : 11-DEC-2008 12:26
Operator : VTS Inst ID: nt2.i
Smp Info : IC1211D
Misc Info : TBT 2
Comment : 2 ul Injection
Method : /chem3/nt2.i/20081211.b/lowbts.m
Meth Date : 11-Dec-2008 13:39 van Quant Type: ISTD
Cal Date : 11-DEC-2008 12:26 Cal File: ic1211d.d
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SED.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 Tripropyl Tin (Hexyl)	291	8.464	8.465	(0.838)	199659	2.00000	2.097
	2 Tetrabutyl Tin	289	8.684	8.684	(0.860)	193130	2.00000	2.069
	3 Tributyl Tin (Hexyl)	319	9.455	9.454	(0.936)	165094	2.00000	2.113
*	4 Tetrapentyl Tin	333	10.097	10.098	(1.000)	260257	2.00000	
	5 Dibutyl Tin (Hexyl)	347	10.151	10.152	(0.918)	222649	4.00000	4.127
$	6 Tripentyl Tin (Hexyl)	345	10.438	10.439	(0.944)	238366	4.00000	4.181
	7 Butyl Tin (Hexyl)	347	10.775	10.776	(0.974)	332990	4.00000	4.119
*	8 p-Terphenyl-d14	244	11.058	11.059	(1.000)	267817	0.20000	

VTS
12.11.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic1211d.d
Lab Smp Id: IC1211D
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20081211.b/lowbts.m
Misc Info: TBT 2

Calibration Date: 11-DEC-2008
Calibration Time: 11:28

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	264254	132127	528508	260257	-1.51
8 p-Terphenyl-d14	275807	137904	551614	267817	-2.90

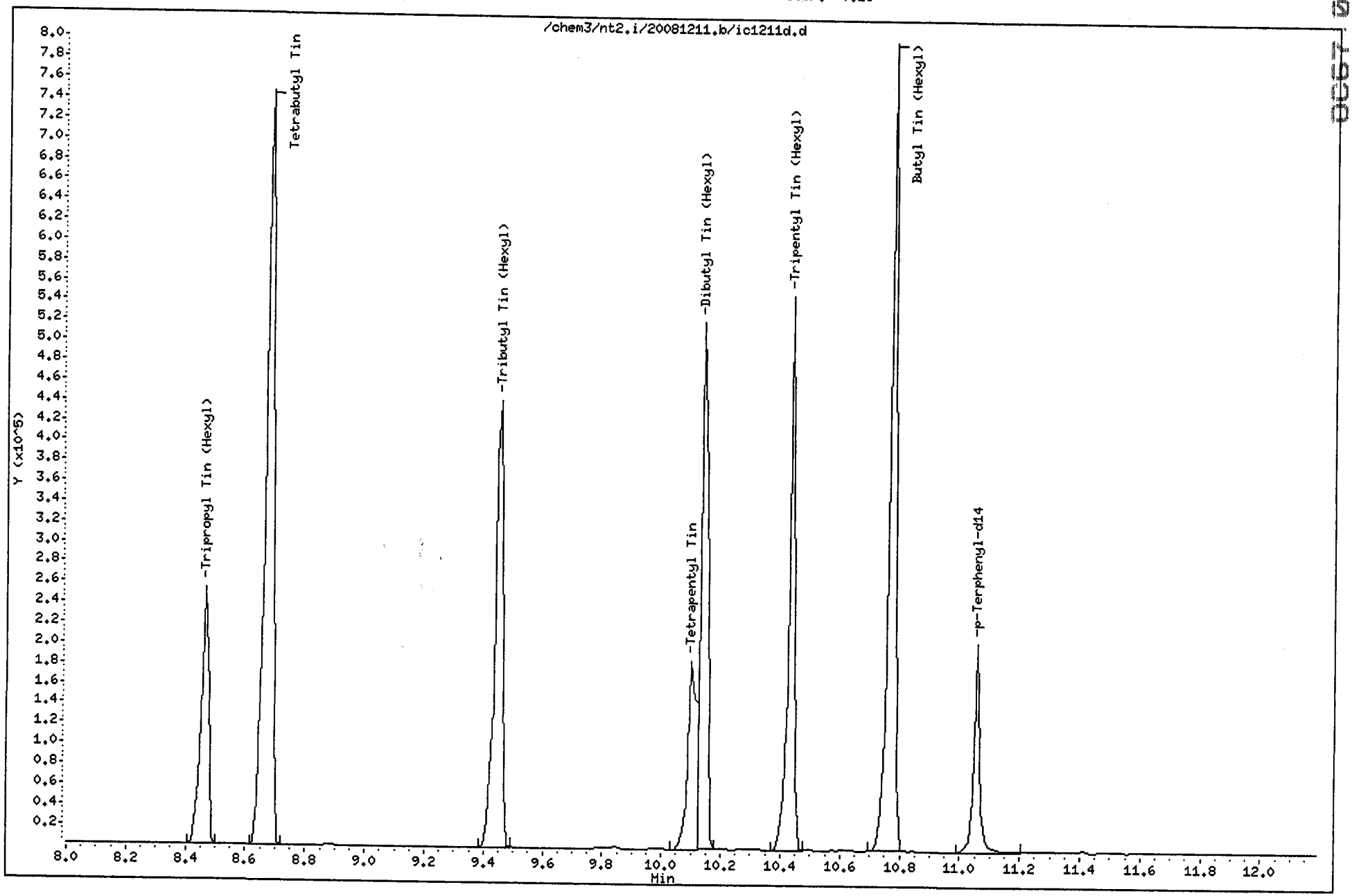
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	10.10	9.60	10.60	10.10	-0.01
8 p-Terphenyl-d14	11.06	10.56	11.56	11.06	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20081211.b/ic1211d.d
Date : 11-DEC-2008 12:26
Client ID:
Sample Info: IC1211D

Instrument: nt2.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



Analytical Resources, Inc.

Butyl Tins - GC/MS SIM

Data file : /chem3/nt2.i/20081211.b/ic1211e.d
Lab Smp Id: IC1211E
Inj Date : 11-DEC-2008 12:46
Operator : VTS Inst ID: nt2.i
Smp Info : IC1211E
Misc Info : TBT .2
Comment : 2 ul Injection
Method : /chem3/nt2.i/20081211.b/lowbts.m
Meth Date : 11-Dec-2008 13:39 van Quant Type: ISTD
Cal Date : 11-DEC-2008 12:46 Cal File: ic1211e.d
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SED.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 Tripropyl Tin (Hexyl)	291	8.464	8.465	(0.838)	17610	0.20000	0.1969
	2 Tetrabutyl Tin	289	8.684	8.684	(0.860)	17098	0.20000	0.1954
	3 Tributyl Tin (Hexyl)	319	9.455	9.454	(0.936)	14187	0.20000	0.1940
*	4 Tetrapentyl Tin	333	10.097	10.098	(1.000)	245408	2.00000	
	5 Dibutyl Tin (Hexyl)	347	10.151	10.152	(0.918)	20797	0.40000	0.3837
$	6 Tripentyl Tin (Hexyl)	345	10.438	10.439	(0.944)	21545	0.40000	0.3775
	7 Butyl Tin (Hexyl)	347	10.775	10.776	(0.974)	30765	0.40000	0.3797
*	8 p-Terphenyl-d14	244	11.058	11.059	(1.000)	271851	0.20000	

VTS
12-11-2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic1211e.d
Lab Smp Id: IC1211E
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20081211.b/lowbts.m
Misc Info: TBT .2

Calibration Date: 11-DEC-2008
Calibration Time: 11:28

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	264254	132127	528508	245408	-7.13
8 p-Terphenyl-d14	275807	137904	551614	271851	-1.43

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	10.10	9.60	10.60	10.10	-0.01
8 p-Terphenyl-d14	11.06	10.56	11.56	11.06	-0.01

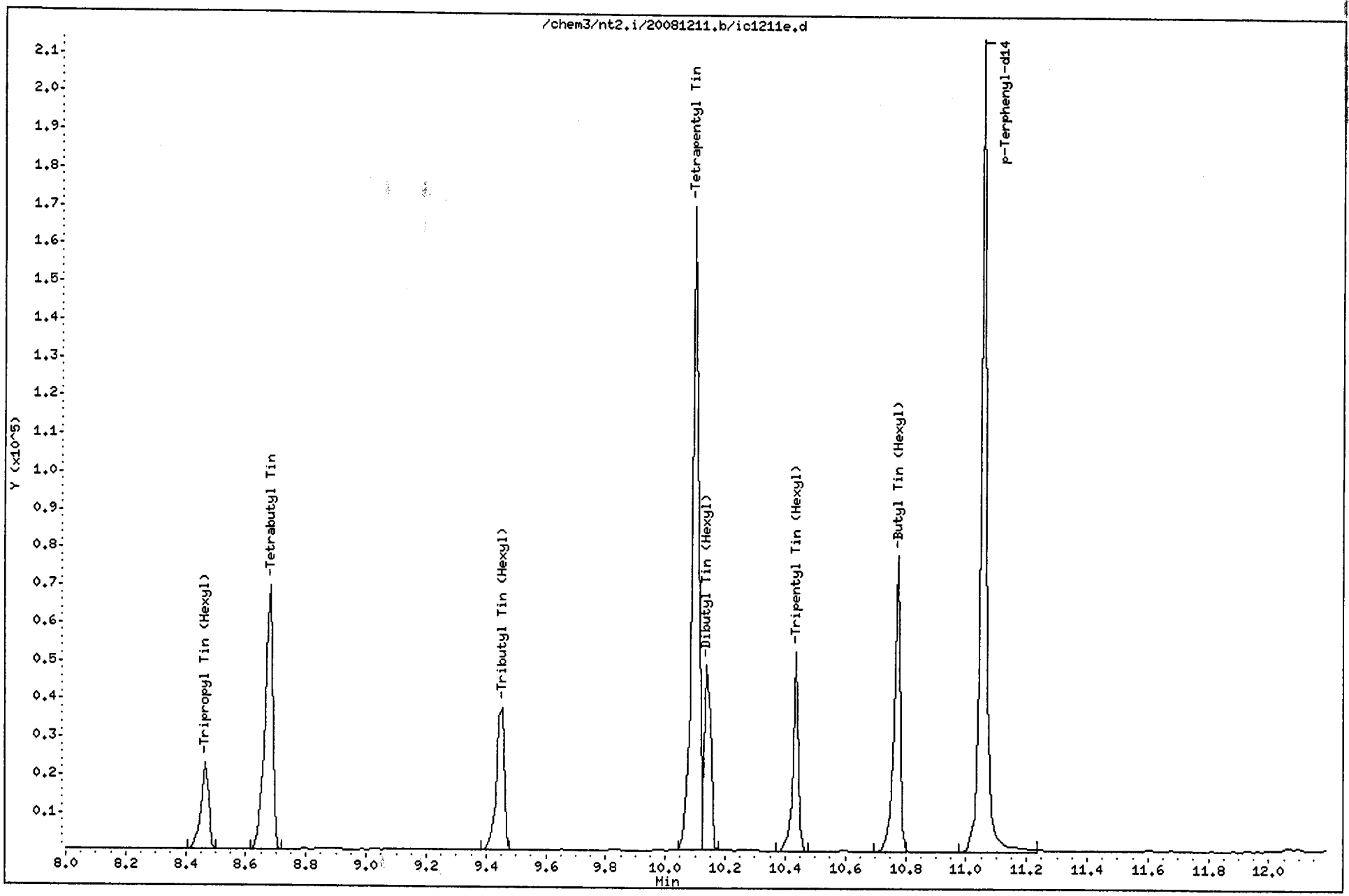
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20081211.b/ic1211e.d
Date : 11-DEC-2008 12:46
Client ID:
Sample Info: IC1211E

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



Analytical Resources, Inc.

Butyl Tins - GC/MS SIM

Data file : /chem3/nt2.i/20081211.b/ic1211f.d
Lab Smp Id: IC1211F
Inj Date : 11-DEC-2008 13:05
Operator : VTS Inst ID: nt2.i
Smp Info : IC1211F
Misc Info : TBT1
Comment : 2 ul Injection
Method : /chem3/nt2.i/20081211.b/lowbts.m
Meth Date : 11-Dec-2008 13:39 van Quant Type: ISTD
Cal Date : 11-DEC-2008 13:05 Cal File: ic1211f.d
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SED.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 Tripropyl Tin (Hexyl)	291	8.465	8.465	(0.838)	103617	1.00000	1.075
	2 Tetrabutyl Tin	289	8.685	8.684	(0.860)	100173	1.00000	1.064
	3 Tributyl Tin (Hexyl)	319	9.454	9.454	(0.936)	84147	1.00000	1.069
*	4 Tetrapentyl Tin	333	10.099	10.098	(1.000)	260568	2.00000	
	5 Dibutyl Tin (Hexyl)	347	10.152	10.152	(0.918)	117281	2.00000	2.134
$	6 Tripentyl Tin (Hexyl)	345	10.439	10.439	(0.944)	123168	2.00000	2.130
	7 Butyl Tin (Hexyl)	347	10.776	10.776	(0.974)	176466	2.00000	2.146
*	8 p-Terphenyl-d14	244	11.059	11.059	(1.000)	271920	0.20000	

VTS
12-11-2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic1211f.d
Lab Smp Id: IC1211F
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20081211.b/lowbts.m
Misc Info: TBT1

Calibration Date: 11-DEC-2008
Calibration Time: 11:28

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	264254	132127	528508	260568	-1.39
8 p-Terphenyl-d14	275807	137904	551614	271920	-1.41

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	10.10	9.60	10.60	10.10	0.00
8 p-Terphenyl-d14	11.06	10.56	11.56	11.06	0.00

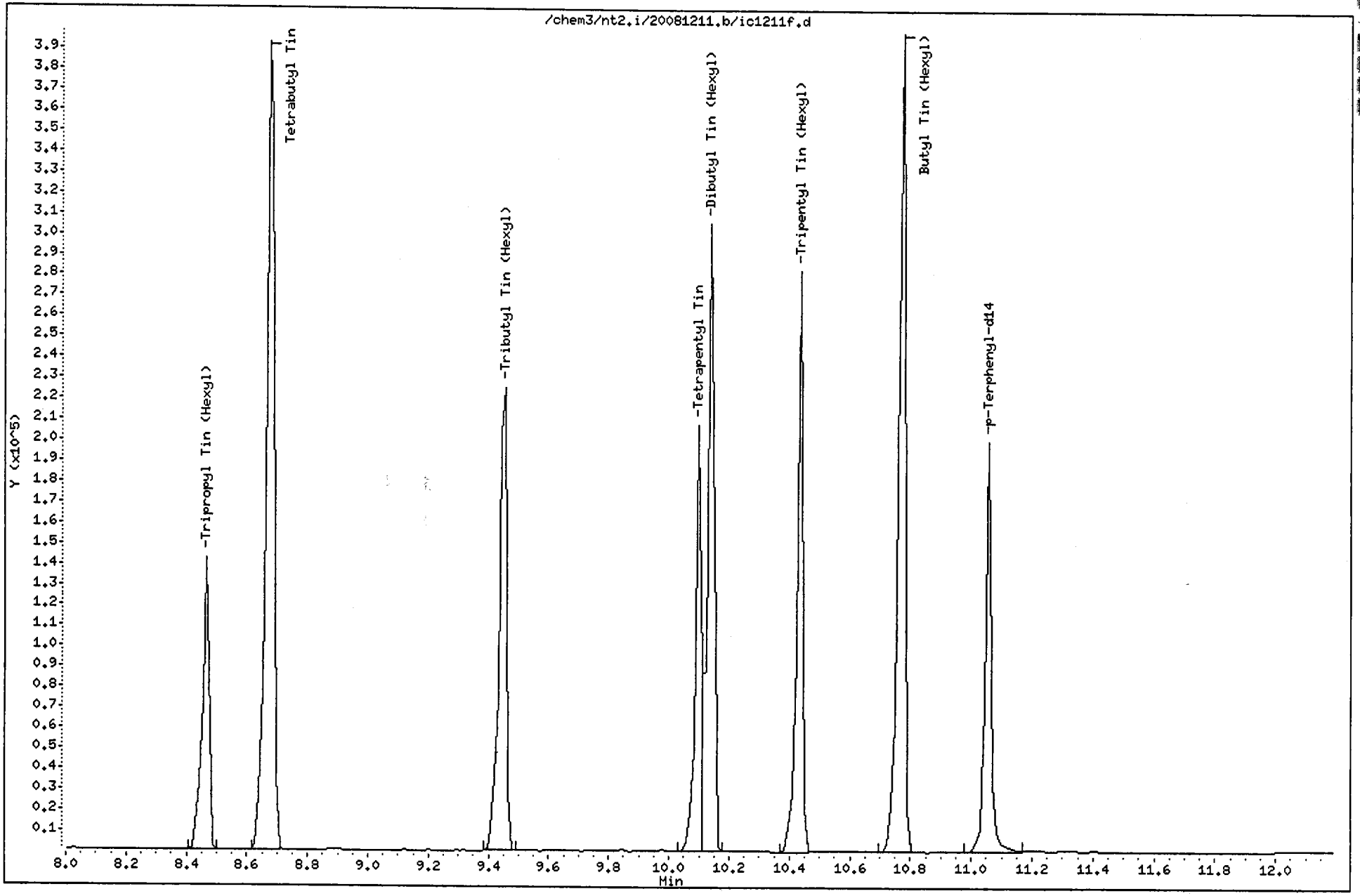
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20081211.b/ic1211f.d
Date : 11-DEC-2008 13:05
Client ID:
Sample Info: IC1211F

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



7B

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: OC67 Project: EDDON BOATYARD

Instrument ID: NT2 Cont. Calib. Date: 12/11/08

Init. Calib. Date: 12/11/08 Cont. Calib. Time: 1128

COMPOUND	$\overline{RRF}$	RRF0.5	MIN RRF	%D	MAX %D
Tributyl Tin (Hexyl)	0.604	0.610	0.100	-1.0	
Dibutyl Tin (Hexyl)	0.040	0.041	0.100	-2.5	
Butyl Tin (Hexyl)	0.060	0.062	0.100	-3.3	
Tetrabutyl Tin	0.722	0.737	0.100	-2.1	
Tripropyl Tin (Hexyl)	0.740	0.763	0.100	-3.1	
Tripentyl Tin (Hexyl)	0.042	0.044	0.100	-4.8	

<- Outside QC limits

FORM VII SV-1

Analytical Resources, Inc.

Butyl Tins - GC/MS SIM

Data file : /chem3/nt2.i/20081211.b/ic1211a.d
Lab Smp Id: IC1211A
Inj Date : 11-DEC-2008 11:28
Operator : VTS Inst ID: nt2.i
Smp Info : IC1211A
Misc Info : TBT .5
Comment : 2 ul Injection
Method : /chem3/nt2.i/20081211.b/lowbts.m
Meth Date : 11-Dec-2008 15:56 van Quant Type: ISTD
Cal Date : 11-DEC-2008 13:05 Cal File: ic1211f.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SED.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 Tripropyl Tin (Hexyl)	291	8.465	8.465	(0.838)	50391	0.50000	0.5154
	2 Tetrabutyl Tin	289	8.684	8.684	(0.860)	48709	0.50000	0.5103
	3 Tributyl Tin (Hexyl)	319	9.454	9.454	(0.936)	40335	0.50000	0.5052
*	4 Tetrapentyl Tin	333	10.098	10.098	(1.000)	264254	2.00000	
	5 Dibutyl Tin (Hexyl)	347	10.152	10.152	(0.918)	56064	1.00000	1.006
$	6 Tripentyl Tin (Hexyl)	345	10.439	10.439	(0.944)	60360	1.00000	1.029
	7 Butyl Tin (Hexyl)	347	10.776	10.776	(0.974)	85806	1.00000	1.029
*	8 p-Terphenyl-d14	244	11.059	11.059	(1.000)	275807	0.20000	

VTS
12.11.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic1211a.d
Lab Smp Id: IC1211A
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20081211.b/lowbts.m
Misc Info: TBT .5

Calibration Date: 11-DEC-2008
Calibration Time: 11:28
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	264254	132127	528508	264254	0.00
8 p-Terphenyl-d14	275807	137904	551614	275807	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	10.10	9.60	10.60	10.10	0.00
8 p-Terphenyl-d14	11.06	10.56	11.56	11.06	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt2.i
Lab File ID: ic1211a.d
Analysis Type:
Lab Sample ID: IC1211A
Method: /chem3/nt2.i/20081211.b/lowbts.m

Injection Date: 11-DEC-2008 11:28
Init. Cal. Date(s): 11-DEC-2008 11-DEC-2008
Init. Cal. Times: 11:28 13:05
Quant Type: ISTD

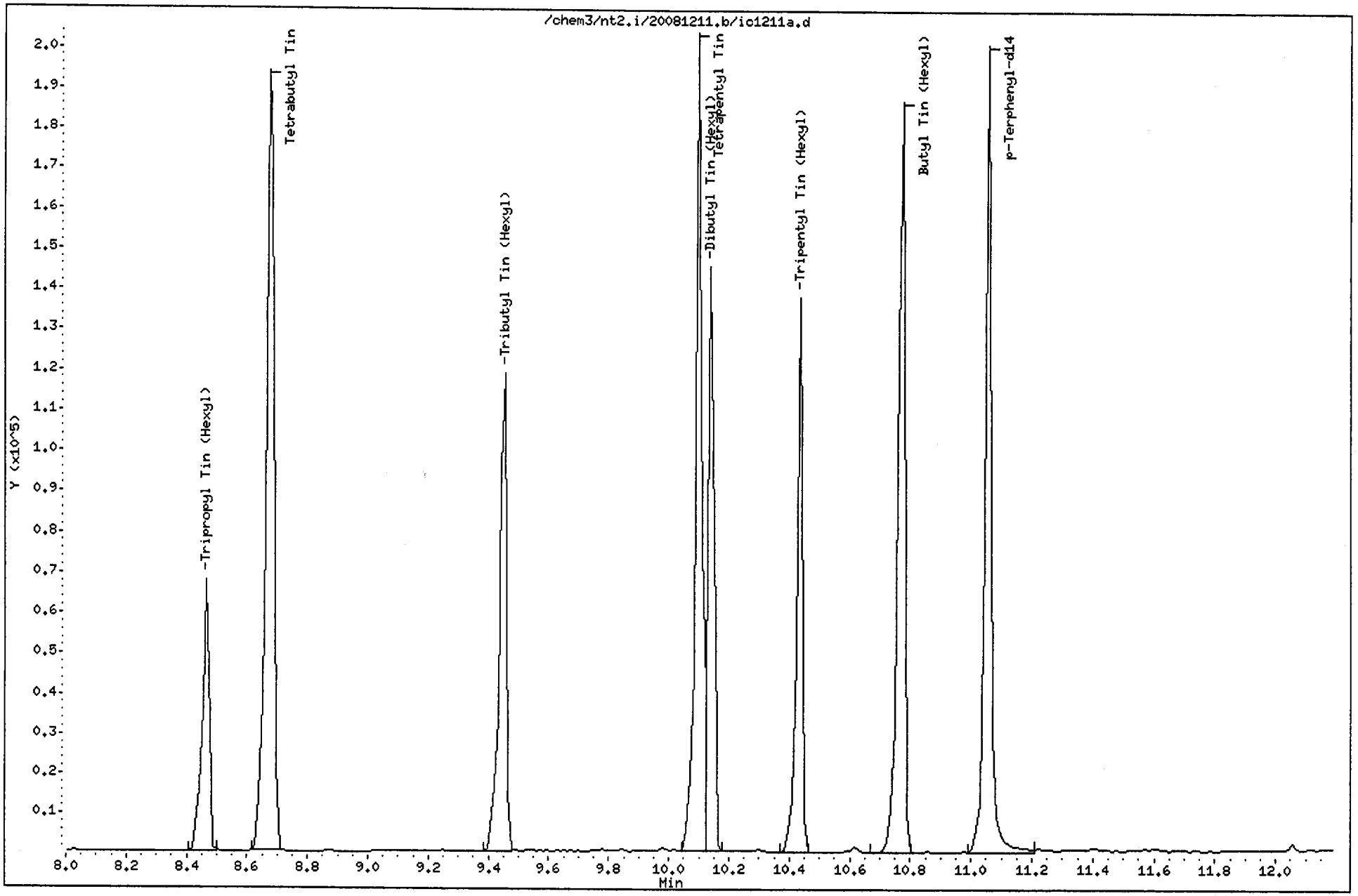
COMPOUND	RRF / AMOUNT	RF0.500	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tripropyl Tin (Hexyl)	0.74001	0.76277	0.005	-3.07490	25.00000	Averaged
2 Tetrabutyl Tin	0.72241	0.73731	0.010	-2.06137	25.00000	Averaged
3 Tributyl Tin (Hexyl)	0.60428	0.61055	0.005	-1.03749	25.00000	Averaged
5 Dibutyl Tin (Hexyl)	0.04042	0.04065	0.005	-0.57955	25.00000	Averaged
$ 6 Tripentyl Tin (Hexyl)	0.04254	0.04377	0.010	-2.89783	25.00000	Averaged
7 Butyl Tin (Hexyl)	0.06049	0.06222	0.005	-2.85600	25.00000	Averaged

Data File: /chem3/nt2.i/20081211.b/ic1211a.d
Date : 11-DEC-2008 11:28
Client ID:
Sample Info: IC1211A

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



TBT Analysis
QC Raw Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OC67

prepared
by

Analytical Resources, Inc.

Data File: /chem3/nt2.i/20081211.b/df1211.d

Date : 11-DEC-2008 11:11

Client ID:

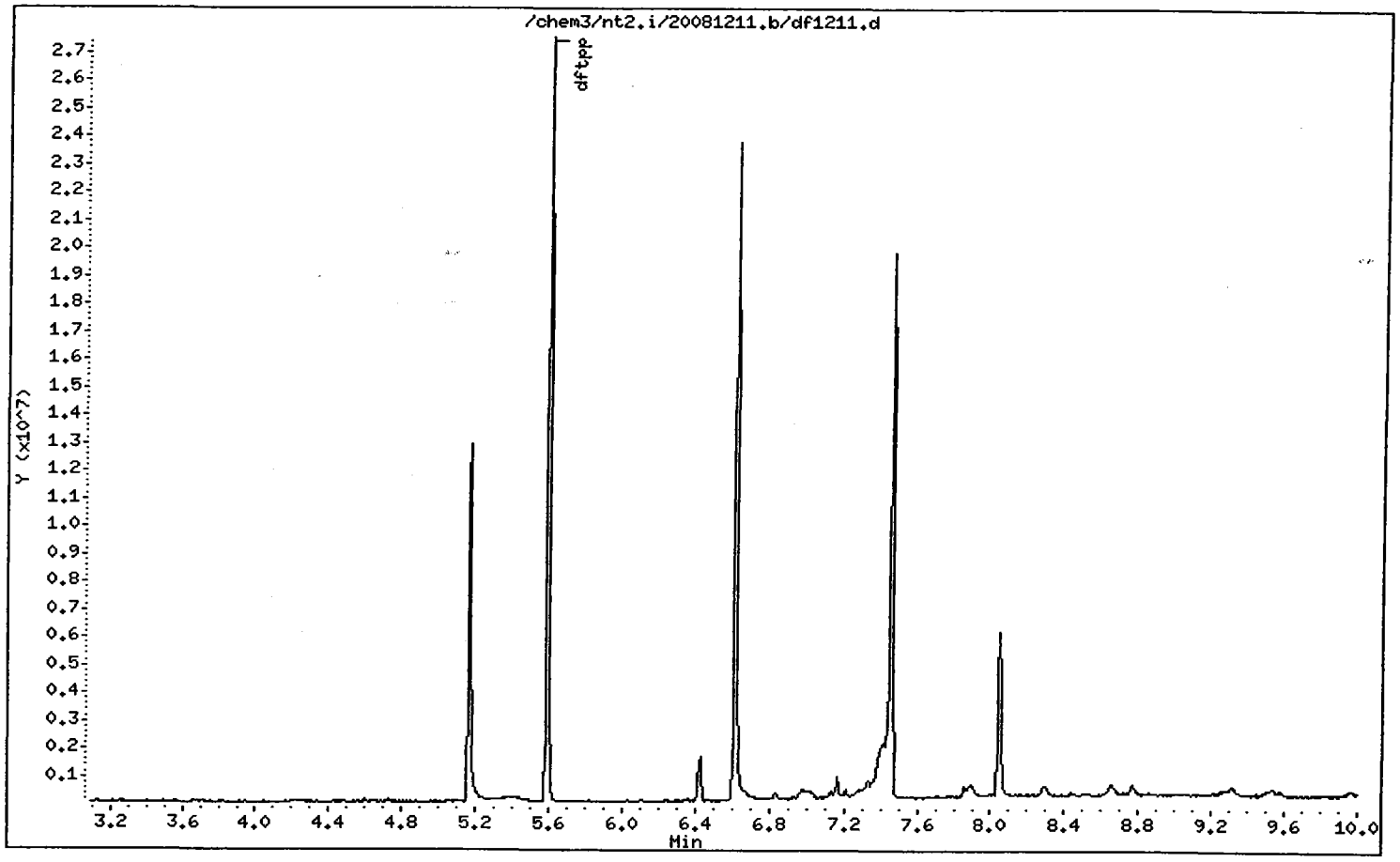
Instrument: nt2.i

Sample Info: DF1211

Operator: VTS

Column phase:

Column diameter: 0.25



Data File: /chem3/nt2.i/20081211.b/df1211.d

Date : 11-DEC-2008 11:11

Client ID:

Instrument: nt2.i

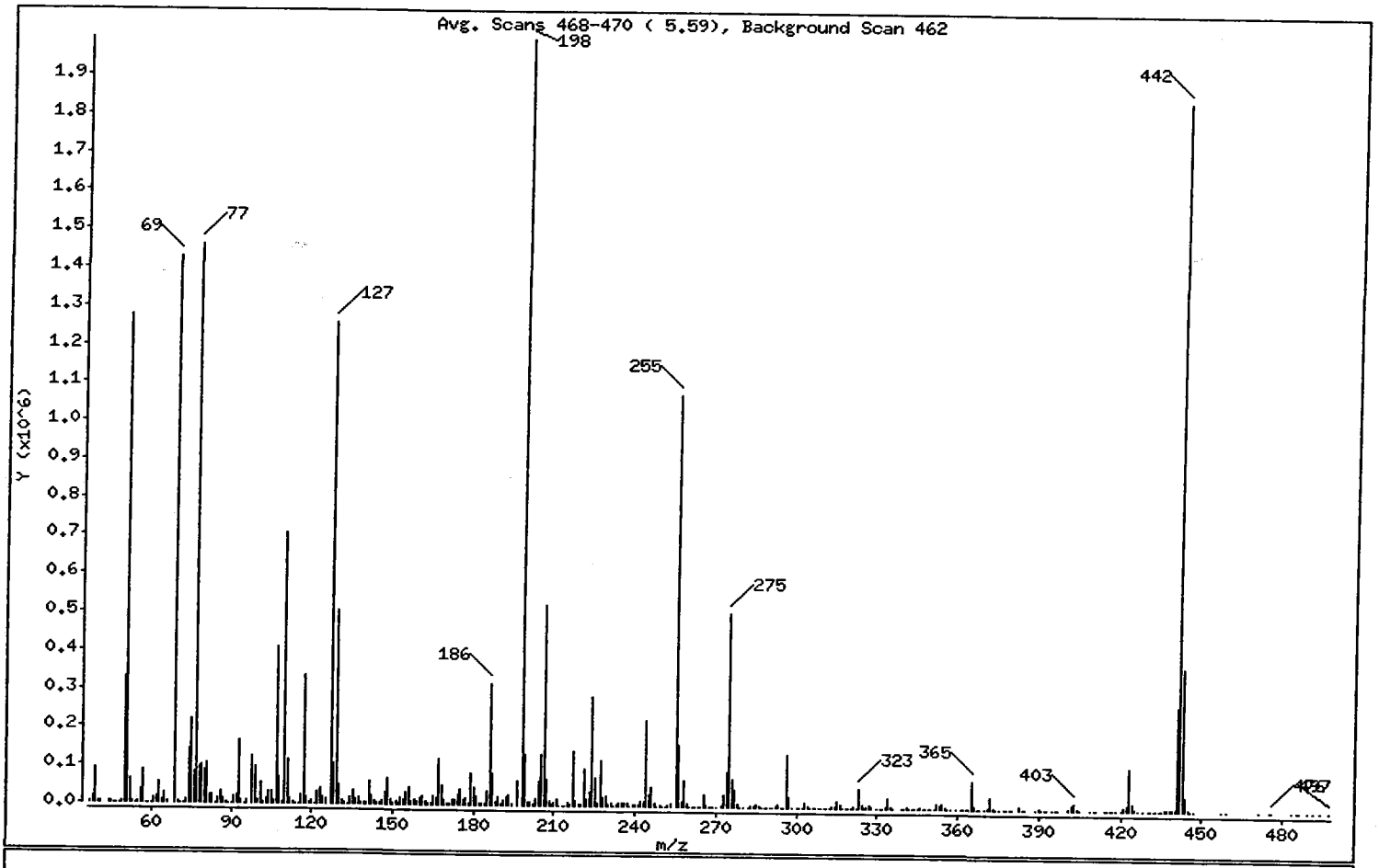
Sample Info: DF1211

Operator: VTS

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	63.91
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	71.62
70	Less than 2.00% of mass 69	0.24 (0.34)
127	25.00 - 75.00% of mass 198	63.08
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.76
275	10.00 - 30.00% of mass 198	25.24
365	Greater than 0.75% of mass 198	3.78
441	Present, but less than mass 443	13.51
442	40.00 - 110.00% of mass 198	92.48
443	15.00 - 24.00% of mass 442	18.53 (20.03)

Data File: /chem3/nt2.i/20081211.b/df1211.d

Date : 11-DEC-2008 11:11

Client ID:

Instrument: nt2.i

Sample Info: DF1211

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1211.d

Spectrum: Avg. Scans 468-470 (5.59), Background Scan 462

Location of Maximum: 198.00

Number of points: 387

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	6074	140.00	5025	239.00	6267	343.00	407
38.00	16936	141.00	60352	240.00	3075	344.00	94
39.00	90888	142.00	20824	241.00	5964	345.00	227
40.00	3726	143.00	10740	242.00	14439	346.00	6275
41.00	2457	144.00	4282	243.00	13991	347.00	1204
44.00	6002	145.00	2841	244.00	222656	348.00	104
45.00	2707	146.00	10582	245.00	34256	349.00	191
46.00	215	147.00	33104	246.00	48440	350.00	1576
47.00	685	148.00	66648	247.00	8348	351.00	1286
48.00	469	149.00	13729	248.00	1915	352.00	12658
49.00	4123	150.00	4113	249.00	6278	353.00	10969
50.00	329792	151.00	8362	250.00	1026	354.00	13222
51.00	1275904	152.00	3724	251.00	1233	355.00	4193
52.00	62000	153.00	17200	252.00	2601	356.00	106
53.00	3435	154.00	12722	253.00	9661	357.00	727
54.00	137	155.00	32808	255.00	1074176	359.00	1048
55.00	5080	156.00	47080	256.00	161856	361.00	751
56.00	36136	157.00	7688	257.00	14154	362.00	37
57.00	85400	158.00	15089	258.00	68216	363.00	192
58.00	1514	159.00	8363	259.00	11204	364.00	1940
59.00	315	160.00	17192	260.00	808	365.00	75464
60.00	902	161.00	23928	261.00	1424	366.00	8711
61.00	13804	162.00	8639	262.00	836	367.00	712
62.00	19616	163.00	4285	263.00	2258	368.00	161
63.00	56128	164.00	3576	264.00	1818	370.00	1446
64.00	8162	165.00	23008	265.00	30800	371.00	3979
65.00	28192	166.00	19984	266.00	5928	372.00	31480
66.00	3098	167.00	118928	267.00	1369	373.00	6107
69.00	1429504	168.00	48784	268.00	446	374.00	809
70.00	4852	169.00	11749	269.00	75	375.00	481
71.00	1710	170.00	2773	270.00	354	377.00	166
72.00	1660	171.00	4855	272.00	2631	378.00	392
73.00	10914	172.00	12303	273.00	30776	379.00	521
74.00	141440	173.00	12227	274.00	89872	380.00	380
75.00	219968	174.00	25784	275.00	503936	383.00	7438

Data File: /chem3/nt2.i/20081211.b/df1211.d

Date : 11-DEC-2008 11:11

Client ID:

Instrument: nt2.i

Sample Info: DF1211

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1211.d
Spectrum: Avg. Scans 468-470 (5.59), Background Scan 462
Location of Maximum: 198.00
Number of points: 387

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.00	80760	175.00	43368	276.00	73064	384.00	1500
77.00	1459712	176.00	12524	277.00	46208	385.00	1000
78.00	96824	177.00	20216	278.00	9242	389.00	556
79.00	100816	178.00	5954	279.00	1441	390.00	2604
80.00	86960	179.00	81664	280.00	243	391.00	1858
81.00	105760	180.00	47848	282.00	179	392.00	1680
82.00	24624	181.00	24528	283.00	4176	393.00	667
83.00	24976	182.00	3213	284.00	5139	395.00	785
84.00	487	183.00	4624	285.00	7954	396.00	561
85.00	15952	184.00	6589	286.00	2749	397.00	427
86.00	32192	185.00	38416	287.00	253	401.00	4102
87.00	14146	186.00	317632	288.00	481	402.00	12587
88.00	5154	187.00	81952	289.00	1147	403.00	17528
89.00	2104	188.00	10356	290.00	2074	404.00	5523
90.00	426	189.00	20984	291.00	664	405.00	1274
91.00	20576	190.00	3518	292.00	5109	409.00	544
92.00	24784	191.00	11931	293.00	8467	410.00	128
93.00	167360	192.00	24792	294.00	2141	411.00	195
94.00	9562	193.00	26824	295.00	1397	414.00	711
95.00	533	194.00	5246	296.00	136960	415.00	772
96.00	8376	196.00	65856	297.00	25352	416.00	192
98.00	122832	198.00	1996288	298.00	707	417.00	275
99.00	97424	199.00	134912	300.00	826	418.00	483
100.00	8059	200.00	9158	301.00	1866	420.00	1002
101.00	57360	201.00	10781	302.00	584	421.00	9699
102.00	3129	202.00	3299	303.00	15609	422.00	15033
103.00	14155	203.00	16072	304.00	3427	423.00	108512
104.00	34216	204.00	63424	305.00	1024	424.00	20472
105.00	32040	205.00	132608	306.00	95	425.00	3323
106.00	10668	206.00	523136	307.00	395	426.00	247
107.00	406592	207.00	67808	308.00	2132	428.00	778
108.00	67912	208.00	15231	309.00	1382	430.00	856
109.00	5877	209.00	6719	310.00	1726	431.00	619
110.00	707712	210.00	9073	311.00	787	432.00	1013
111.00	113256	211.00	20064	312.00	145	433.00	1319

Data File: /chem3/nt2.i/20081211.b/df1211.d

Date : 11-DEC-2008 11:11

Client ID:

Instrument: nt2.i

Sample Info: DF1211

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1211.d

Spectrum: Avg. Scans 468-470 (5.59), Background Scan 462

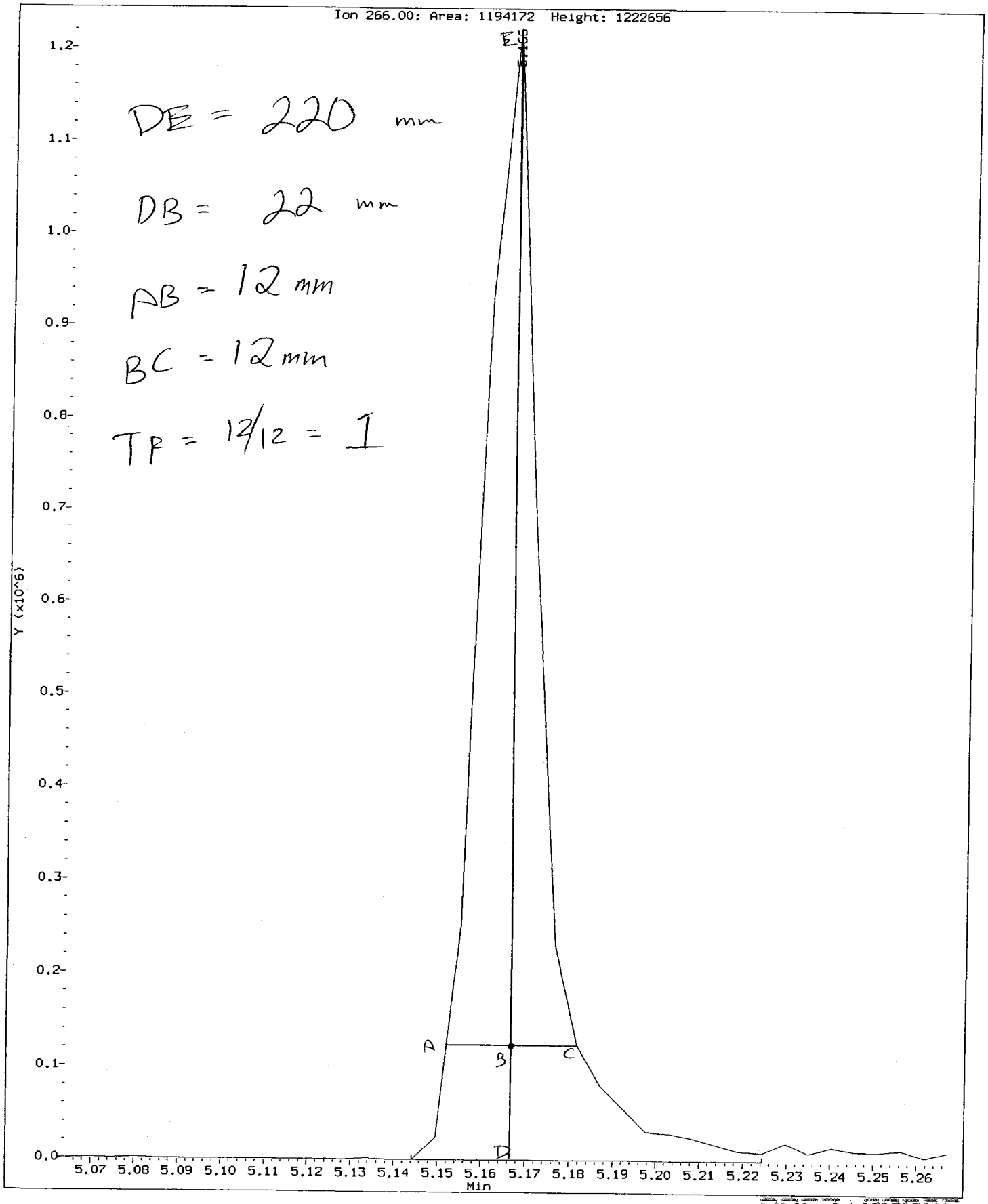
Location of Maximum: 198.00

Number of points: 387

m/z	Y	m/z	Y	m/z	Y	m/z	Y
112.00	13477	212.00	2029	313.00	3599	434.00	2294
113.00	3750	213.00	1414	314.00	6668	435.00	1854
114.00	1013	214.00	838	315.00	17296	436.00	3084
115.00	343	215.00	7866	316.00	10615	437.00	2467
116.00	24264	216.00	6178	317.00	1522	438.00	4237
117.00	335232	217.00	143296	318.00	125	439.00	3940
118.00	18632	218.00	12599	319.00	235	440.00	4743
119.00	4902	219.00	3496	320.00	1688	441.00	269696
120.00	7143	220.00	3683	321.00	6275	442.00	1846272
121.00	1515	221.00	97520	322.00	994	443.00	369856
122.00	30384	222.00	16816	323.00	51000	444.00	36352
123.00	40000	223.00	34536	324.00	6993	445.00	3184
124.00	18080	224.00	282560	325.00	1240	446.00	292
125.00	15351	225.00	72808	326.00	2797	447.00	97
127.00	1259008	226.00	8553	327.00	9263	457.00	72
128.00	104528	227.00	119368	328.00	5673	459.00	101
129.00	504320	228.00	20848	330.00	752	471.00	204
130.00	51560	229.00	26144	331.00	101	475.00	289
131.00	11233	230.00	5613	332.00	2036	476.00	438
132.00	3009	231.00	9687	333.00	5031	483.00	87
133.00	1717	232.00	1511	334.00	28944	485.00	229
134.00	17032	233.00	3164	335.00	5363	486.00	138
135.00	35880	234.00	8026	336.00	188	489.00	76
136.00	14392	235.00	7486	339.00	864	491.00	340
137.00	16456	236.00	7730	340.00	1185	494.00	295
138.00	6605	237.00	9593	341.00	6173	497.00	125
139.00	2947	238.00	1500	342.00	223		

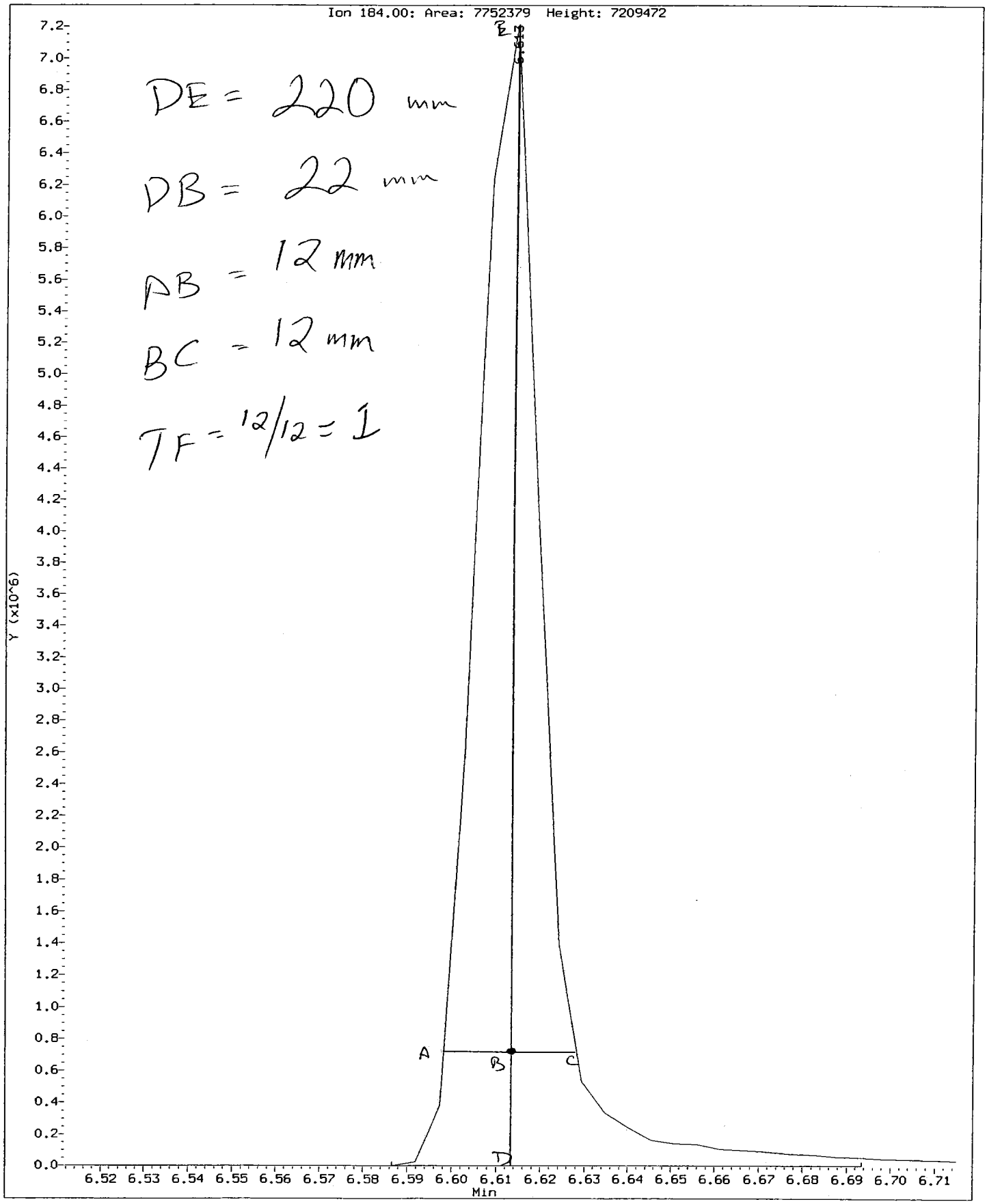
Data File: /chem3/nt2.i/20081211.b/ddt.b/df1211.d
Injection Date: 11-DEC-2008 11:11
Instrument: nt2.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt2.i/20081211.b/ddt.b/df1211.d
Injection Date: 11-DEC-2008 11:11
Instrument: nt2.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt2.i/20081211.b/ddt.b/df1211.d
Method: /chem3/nt2.i/20081211.b/ddt.b/sw846ddt.m
Analysis Date: 11-DEC-2008 11:11

ARI ID: DF1211
Misc:
Instrument: nt2.i

COMPOUND	RT	AREA
Pentachlorophenol	5.166	1194171
Benzidine	6.613	7752378
4,4'-DDE	6.832	23246
4,4'-DDD	7.164	127248
4,4'-DDT	7.457	2757293

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(\ 23246 + 127248) * 100}{(\ 23246 + 127248 + 2757293)}$$

DDT Percent Breakdown = 5.2 %

Data File: /chem3/nt2.i/20081211.b/df1211.d

Date : 11-DEC-2008 11:11

Client ID:

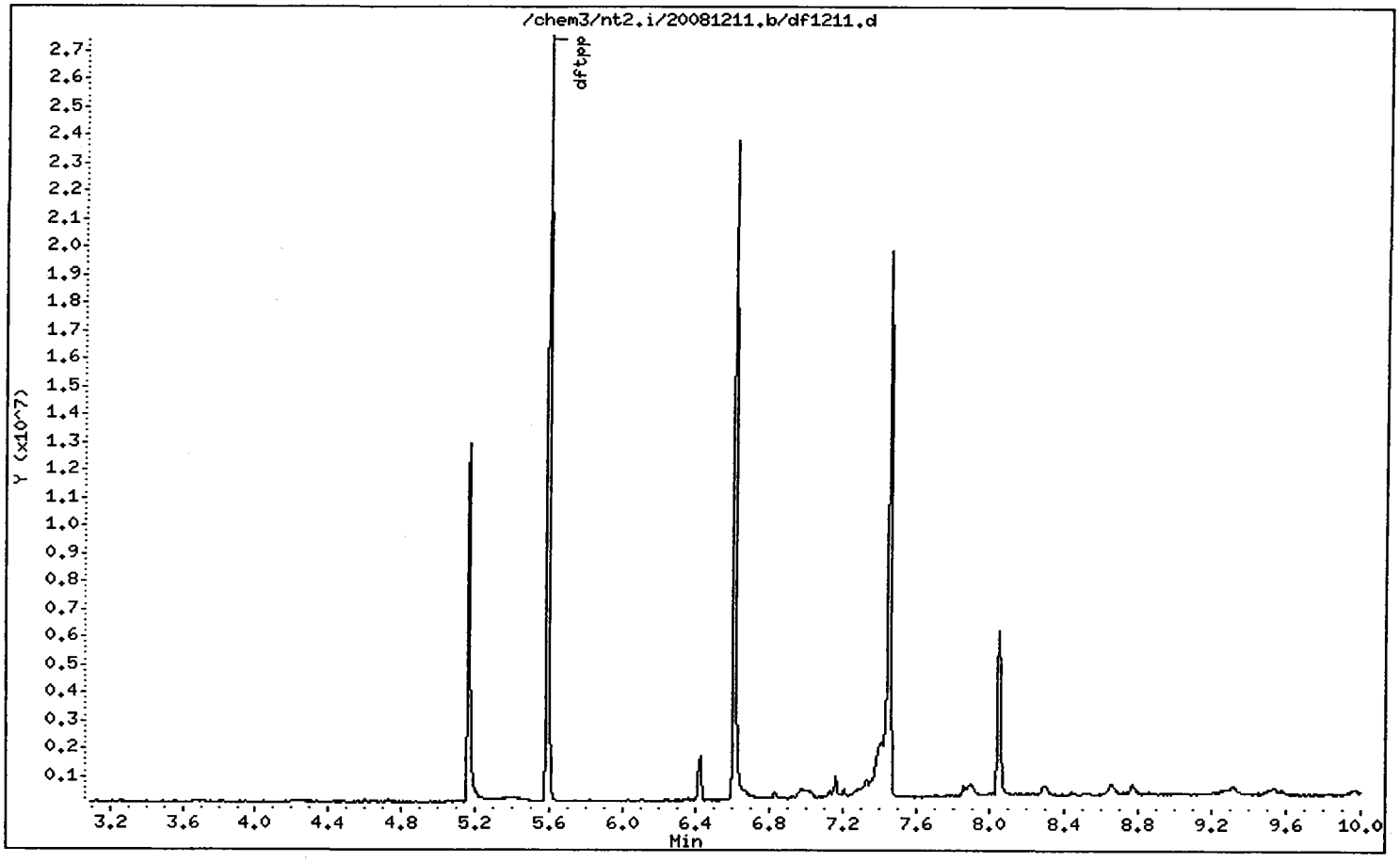
Instrument: nt2.i

Sample Info: DF1211

Operator: VTS

Column phase:

Column diameter: 0.25



Data File: /chem3/nt2.i/20081211.b/df1211.d

Date : 11-DEC-2008 11:11

Client ID:

Instrument: nt2.i

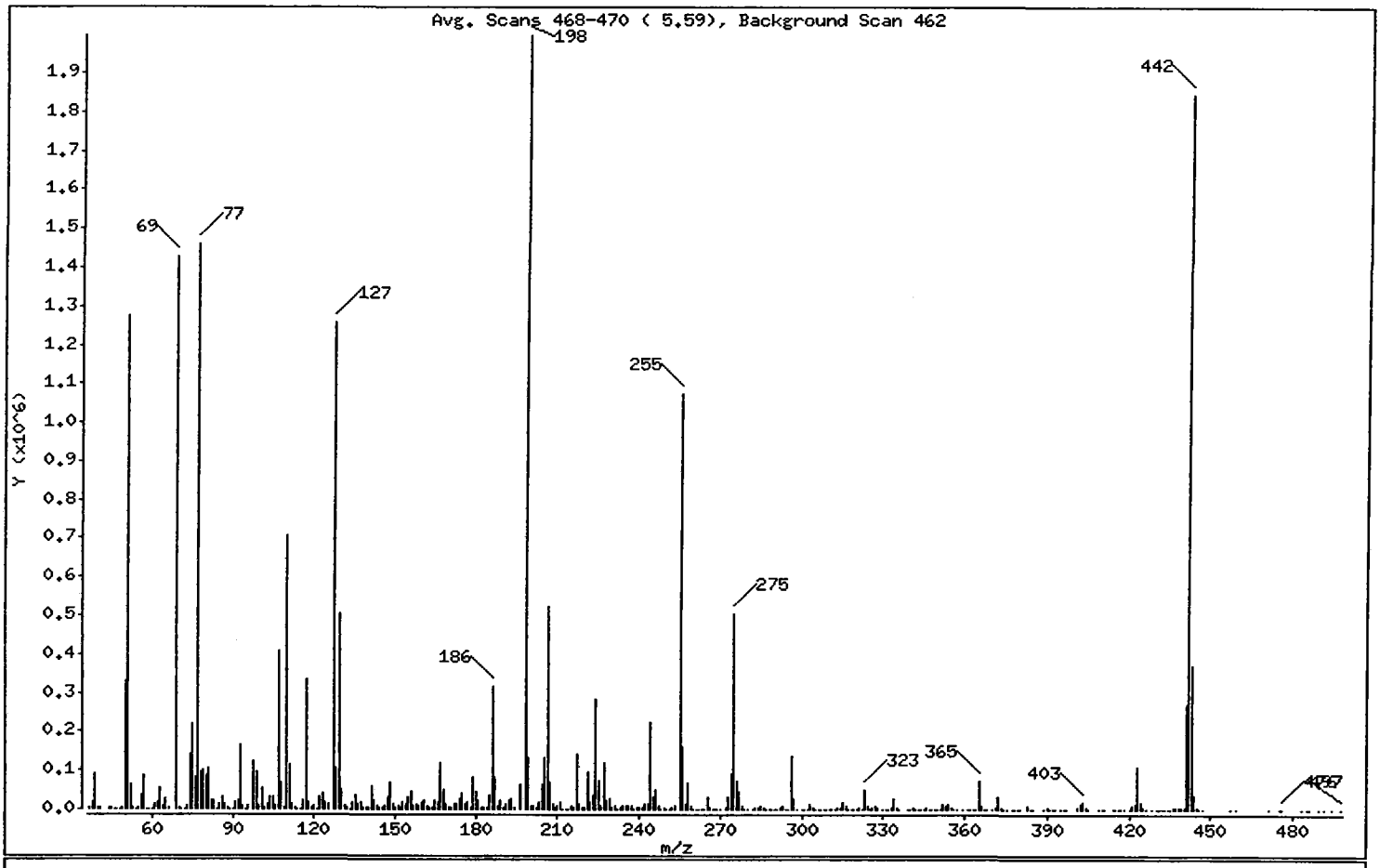
Sample Info: DF1211

Operator: VTS

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	63.91
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	71.62
70	Less than 2.00% of mass 69	0.24 (0.34)
127	25.00 - 75.00% of mass 198	63.08
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.76
275	10.00 - 30.00% of mass 198	25.24
365	Greater than 0.75% of mass 198	3.78
441	Present, but less than mass 443	13.51
442	40.00 - 110.00% of mass 198	92.48
443	15.00 - 24.00% of mass 442	18.53 (20.03)

Data File: /chem3/nt2.i/20081211.b/df1211.d

Date : 11-DEC-2008 11:11

Client ID:

Instrument: nt2.i

Sample Info: DF1211

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1211.d

Spectrum: Avg. Scans 468-470 (5.59), Background Scan 462

Location of Maximum: 198.00

Number of points: 387

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	6074	140.00	5025	239.00	6267	343.00	407
38.00	16936	141.00	60352	240.00	3075	344.00	94
39.00	90888	142.00	20824	241.00	5964	345.00	227
40.00	3726	143.00	10740	242.00	14439	346.00	6275
41.00	2457	144.00	4282	243.00	13991	347.00	1204
44.00	6002	145.00	2841	244.00	222656	348.00	104
45.00	2707	146.00	10582	245.00	34256	349.00	191
46.00	215	147.00	33104	246.00	48440	350.00	1576
47.00	685	148.00	66648	247.00	8348	351.00	1286
48.00	469	149.00	13729	248.00	1915	352.00	12658
49.00	4123	150.00	4113	249.00	6278	353.00	10969
50.00	329792	151.00	8362	250.00	1026	354.00	13222
51.00	1275904	152.00	3724	251.00	1233	355.00	4193
52.00	62000	153.00	17200	252.00	2601	356.00	106
53.00	3435	154.00	12722	253.00	9661	357.00	727
54.00	137	155.00	32808	255.00	1074176	359.00	1048
55.00	5080	156.00	47080	256.00	161856	361.00	751
56.00	36136	157.00	7688	257.00	14154	362.00	37
57.00	85400	158.00	15089	258.00	68216	363.00	192
58.00	1514	159.00	8363	259.00	11204	364.00	1940
59.00	315	160.00	17192	260.00	808	365.00	75464
60.00	902	161.00	23928	261.00	1424	366.00	8711
61.00	13804	162.00	8639	262.00	836	367.00	712
62.00	19616	163.00	4285	263.00	2258	368.00	161
63.00	56128	164.00	3576	264.00	1818	370.00	1446
64.00	8162	165.00	23008	265.00	30800	371.00	3979
65.00	28192	166.00	19984	266.00	5928	372.00	31480
66.00	3098	167.00	118928	267.00	1369	373.00	6107
69.00	1429504	168.00	48784	268.00	446	374.00	809
70.00	4852	169.00	11749	269.00	75	375.00	481
71.00	1710	170.00	2773	270.00	354	377.00	166
72.00	1660	171.00	4855	272.00	2631	378.00	392
73.00	10914	172.00	12303	273.00	30776	379.00	521
74.00	141440	173.00	12227	274.00	89872	380.00	380
75.00	219968	174.00	25784	275.00	503936	383.00	7438

Data File: /chem3/nt2.i/20081211.b/df1211.d

Date : 11-DEC-2008 11:11

Client ID:

Instrument: nt2.i

Sample Info: DF1211

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1211.d
Spectrum: Avg. Scans 468-470 (5.59), Background Scan 462
Location of Maximum: 198.00
Number of points: 387

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.00	80760	175.00	43368	276.00	73064	384.00	1500
77.00	1459712	176.00	12524	277.00	46208	385.00	1000
78.00	96824	177.00	20216	278.00	9242	389.00	556
79.00	100816	178.00	5954	279.00	1441	390.00	2604
80.00	86960	179.00	81664	280.00	243	391.00	1858
81.00	105760	180.00	47848	282.00	179	392.00	1680
82.00	24624	181.00	24528	283.00	4176	393.00	667
83.00	24976	182.00	3213	284.00	5139	395.00	785
84.00	487	183.00	4624	285.00	7954	396.00	561
85.00	15952	184.00	6589	286.00	2749	397.00	427
86.00	32192	185.00	38416	287.00	253	401.00	4102
87.00	14146	186.00	317632	288.00	481	402.00	12587
88.00	5154	187.00	81952	289.00	1147	403.00	17528
89.00	2104	188.00	10356	290.00	2074	404.00	5523
90.00	426	189.00	20984	291.00	664	405.00	1274
91.00	20576	190.00	3518	292.00	5109	409.00	544
92.00	24784	191.00	11931	293.00	8467	410.00	128
93.00	167360	192.00	24792	294.00	2141	411.00	195
94.00	9562	193.00	26824	295.00	1397	414.00	711
95.00	533	194.00	5246	296.00	136960	415.00	772
96.00	8376	196.00	65856	297.00	25352	416.00	192
98.00	122832	198.00	1996288	298.00	707	417.00	275
99.00	97424	199.00	134912	300.00	826	418.00	483
100.00	8059	200.00	9158	301.00	1866	420.00	1002
101.00	57360	201.00	10781	302.00	584	421.00	9699
102.00	3129	202.00	3299	303.00	15609	422.00	15033
103.00	14155	203.00	16072	304.00	3427	423.00	108512
104.00	34216	204.00	63424	305.00	1024	424.00	20472
105.00	32040	205.00	132608	306.00	95	425.00	3323
106.00	10668	206.00	523136	307.00	395	426.00	247
107.00	406592	207.00	67808	308.00	2132	428.00	778
108.00	67912	208.00	15231	309.00	1382	430.00	856
109.00	5877	209.00	6719	310.00	1726	431.00	619
110.00	707712	210.00	9073	311.00	787	432.00	1013
111.00	113256	211.00	20064	312.00	145	433.00	1319

Data File: /chem3/nt2.i/20081211.b/df1211.d

Date : 11-DEC-2008 11:11

Client ID:

Instrument: nt2.i

Sample Info: DF1211

Operator: VTS

Column phase:

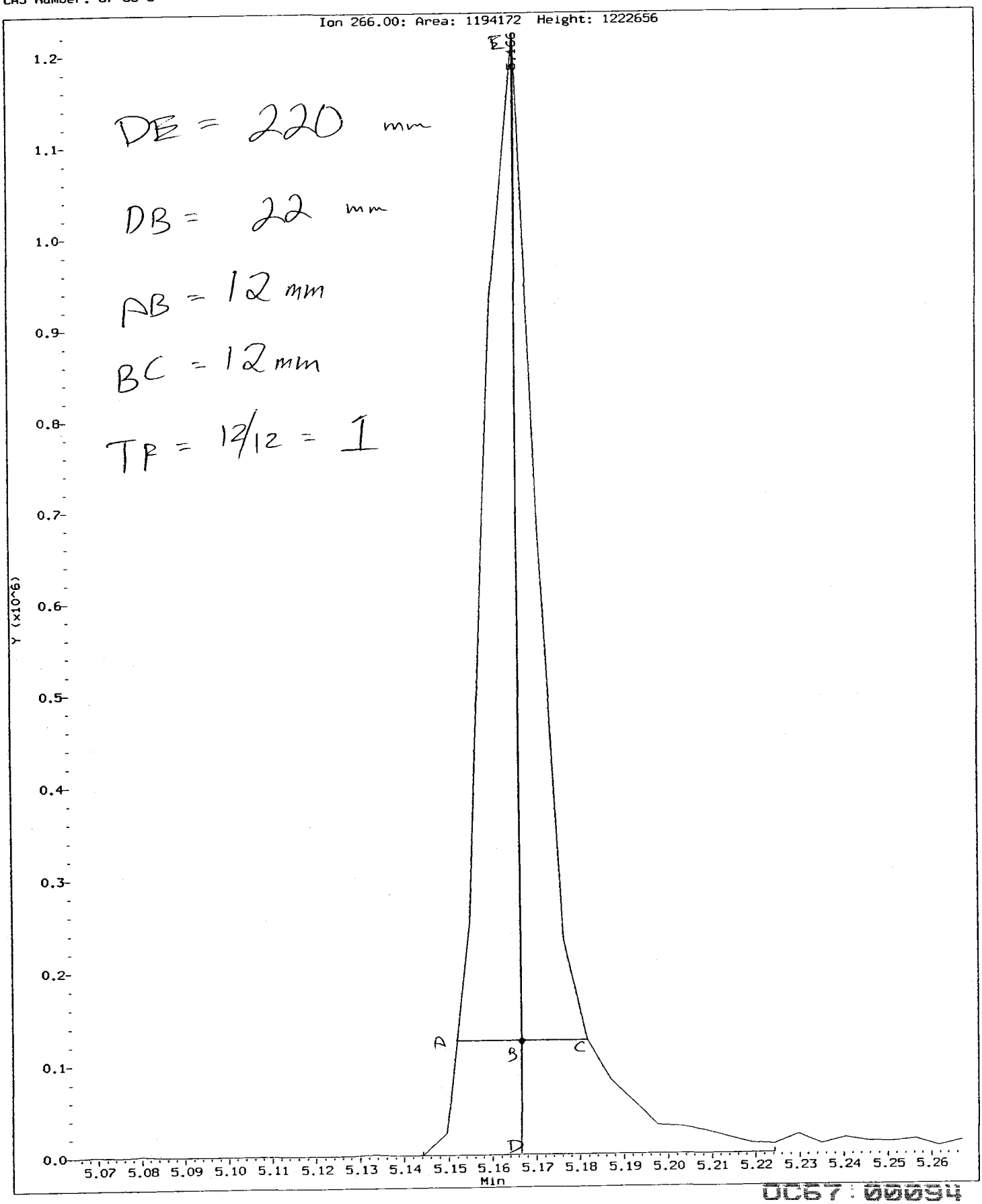
Column diameter: 0.25

Data File: df1211.d
Spectrum: Avg. Scans 468-470 (5.59), Background Scan 462
Location of Maximum: 198.00
Number of points: 387

m/z	Y	m/z	Y	m/z	Y	m/z	Y
112.00	13477	212.00	2029	313.00	3599	434.00	2294
113.00	3750	213.00	1414	314.00	6668	435.00	1854
114.00	1013	214.00	838	315.00	17296	436.00	3084
115.00	343	215.00	7866	316.00	10615	437.00	2467
116.00	24264	216.00	6178	317.00	1522	438.00	4237
117.00	335232	217.00	143296	318.00	125	439.00	3940
118.00	18632	218.00	12599	319.00	235	440.00	4743
119.00	4902	219.00	3496	320.00	1688	441.00	269696
120.00	7143	220.00	3683	321.00	6275	442.00	1846272
121.00	1515	221.00	97520	322.00	994	443.00	369856
122.00	30384	222.00	16816	323.00	51000	444.00	36352
123.00	40000	223.00	34536	324.00	6993	445.00	3184
124.00	18080	224.00	282560	325.00	1240	446.00	292
125.00	15351	225.00	72808	326.00	2797	447.00	97
127.00	1259008	226.00	8553	327.00	9263	457.00	72
128.00	104528	227.00	119368	328.00	5673	459.00	101
129.00	504320	228.00	20848	330.00	752	471.00	204
130.00	51560	229.00	26144	331.00	101	475.00	289
131.00	11233	230.00	5613	332.00	2036	476.00	438
132.00	3009	231.00	9687	333.00	5031	483.00	87
133.00	1717	232.00	1511	334.00	28944	485.00	229
134.00	17032	233.00	3164	335.00	5363	486.00	138
135.00	35880	234.00	8026	336.00	188	489.00	76
136.00	14392	235.00	7486	339.00	864	491.00	340
137.00	16456	236.00	7730	340.00	1185	494.00	295
138.00	6605	237.00	9593	341.00	6173	497.00	125
139.00	2947	238.00	1500	342.00	223		

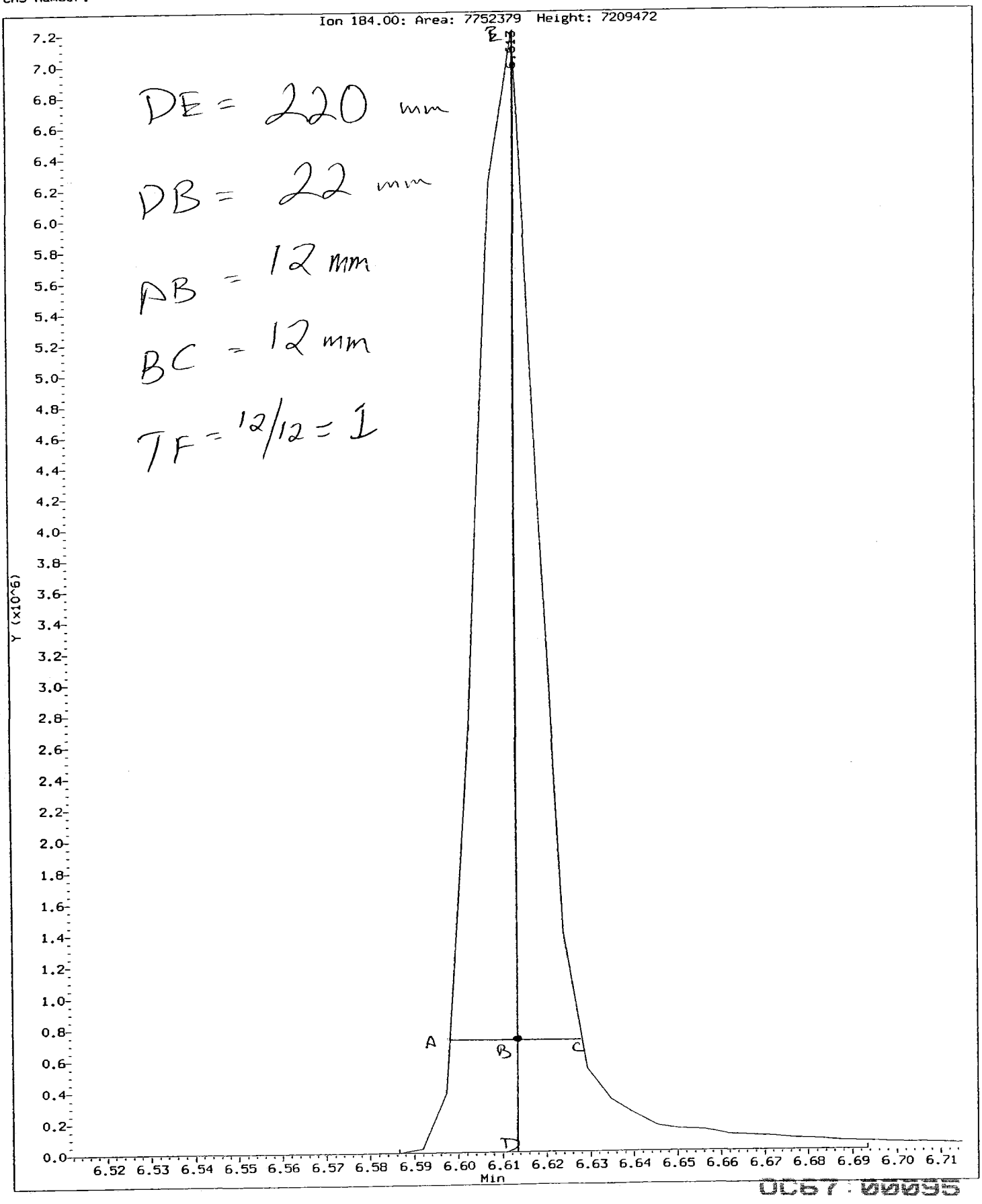
Data File: /chem3/nt2.i/20081211.b/ddt.b/df1211.d
Injection Date: 11-DEC-2008 11:11
Instrument: nt2.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt2.i/20081211.b/ddt.b/df1211.d
Injection Date: 11-DEC-2008 11:11
Instrument: nt2.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt2.i/20081211.b/ddt.b/df1211.d
Method: /chem3/nt2.i/20081211.b/ddt.b/sw846ddt.m
Analysis Date: 11-DEC-2008 11:11

ARI ID: DF1211
Misc:
Instrument: nt2.i

COMPOUND	RT	AREA
Pentachlorophenol	5.166	1194171
Benzidine	6.613	7752378
4,4'-DDE	6.832	23246
4,4'-DDD	7.164	127248
4,4'-DDT	7.457	2757293

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(\ 23246 + 127248) * 100}{(\ 23246 + 127248 + 2757293)}$$

DDT Percent Breakdown = 5.2 %

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: MB-120908
METHOD BLANK

Lab Sample ID: MB-120908
LIMS ID: 08-32584
Matrix: Sediment
Data Release Authorized:
Reported: 12/12/08

QC Report No: OC67-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 12/09/08
Date Analyzed: 12/11/08 15:21
Instrument/Analyst: NT2/VTS
Silica Gel Cleanup: No

Sample Amount: 5.00 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyltin Ion	3.9	< 3.9	U
DBT_ION	Dibutyltin Ion	5.8	< 5.8	U
BT_ION	Butyltin Ion	4.1	< 4.1	U

Reported in µg/kg (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	85.1%
Tripentyl Tin Chloride	94.1%

Analytical Resources, Inc.

Butyl Tins - GC/MS SIM

Data file : /chem3/nt2.i/20081211.b/oc67mb.d
Lab Smp Id: OC67MBS1 Client Smp ID: OC67MBS1
Inj Date : 11-DEC-2008 15:21
Operator : VTS Inst ID: nt2.i
Smp Info : OC67MBS1
Misc Info : 08-32584
Comment : 2 ul Injection
Method : /chem3/nt2.i/20081211.b/lowbts.m
Meth Date : 11-Dec-2008 15:56 van Quant Type: ISTD
Cal Date : 11-DEC-2008 13:05 Cal File: ic1211f.d
Als bottle: 14 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SED.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Effective Final Volume of extract (uL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	Percent Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	1 Tripropyl Tin (Hexyl)	291	8.465	8.465	(0.837)	32728	0.50039	50.04 (R)
	2 Tetrabutyl Tin	289	Compound Not Detected.					
	3 Tributyl Tin (Hexyl)	319	Compound Not Detected.					
*	4 Tetrapentyl Tin	333	10.111	10.098	(1.000)	176768	2.00000	(M)
	5 Dibutyl Tin (Hexyl)	347	Compound Not Detected.					
$	6 Tripentyl Tin (Hexyl)	345	10.437	10.439	(0.944)	28748	0.53448	53.45
	7 Butyl Tin (Hexyl)	347	Compound Not Detected.					
*	8 p-Terphenyl-d14	244	11.057	11.059	(1.000)	252892	0.20000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

VTS 12.12.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: oc67mb.d
Lab Smp Id: OC67MBS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20081211.b/lowbts.m
Misc Info: 08-32584

Calibration Date: 11-DEC-2008
Calibration Time: 11:28
Client Smp ID: OC67MBS1
Level: LOW
Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	264254	132127	528508	176768	-33.11
8 p-Terphenyl-d14	275807	137904	551614	252892	-8.31

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	10.10	9.60	10.60	10.11	0.12
8 p-Terphenyl-d14	11.06	10.56	11.56	11.06	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

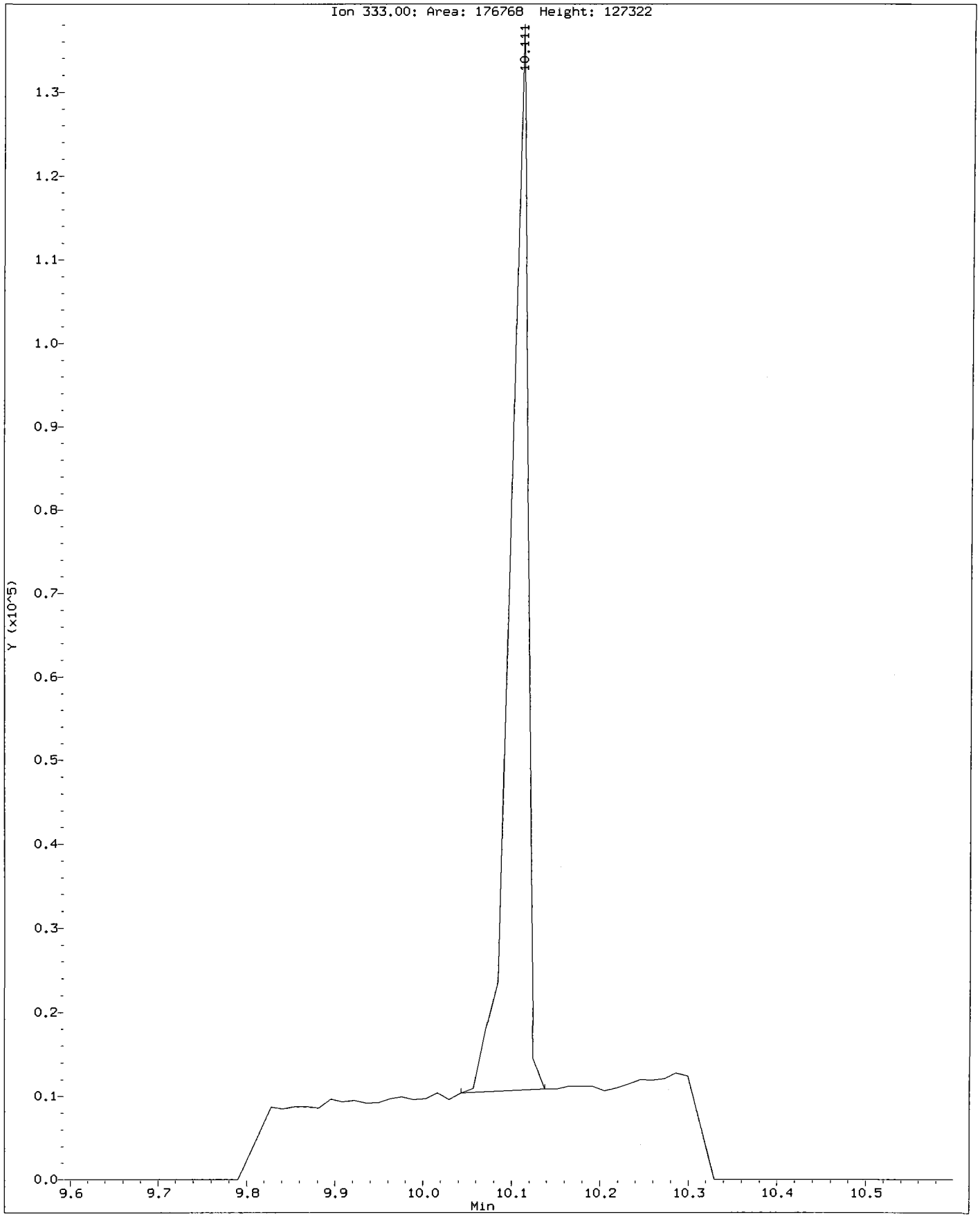
Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: OC67MBS1
Level: LOW
Data Type: MS DATA
SpikeList File: TBTsed.spk
Sublist File: SED.sub
Method File: /chem3/nt2.i/20081211.b/lowbts.m
Misc Info: 08-32584

Client SDG: OC67
Fraction: SV
Client Smp ID: OC67MBS1
Operator: VTS
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 Tripropyl Tin (Hex	50.00	50.04	100.08*	25-96
$ 6 Tripentyl Tin (Hex	50.00	53.45	106.90	30-136

Data File: /chem3/nt2.i/20081211.b/oc67mb.d
Injection Date: 11-DEC-2008 15:21
Instrument: nt2.i
Client Sample ID: OC67MBS1

Compound: Tetrapentyl Tin
CAS Number:



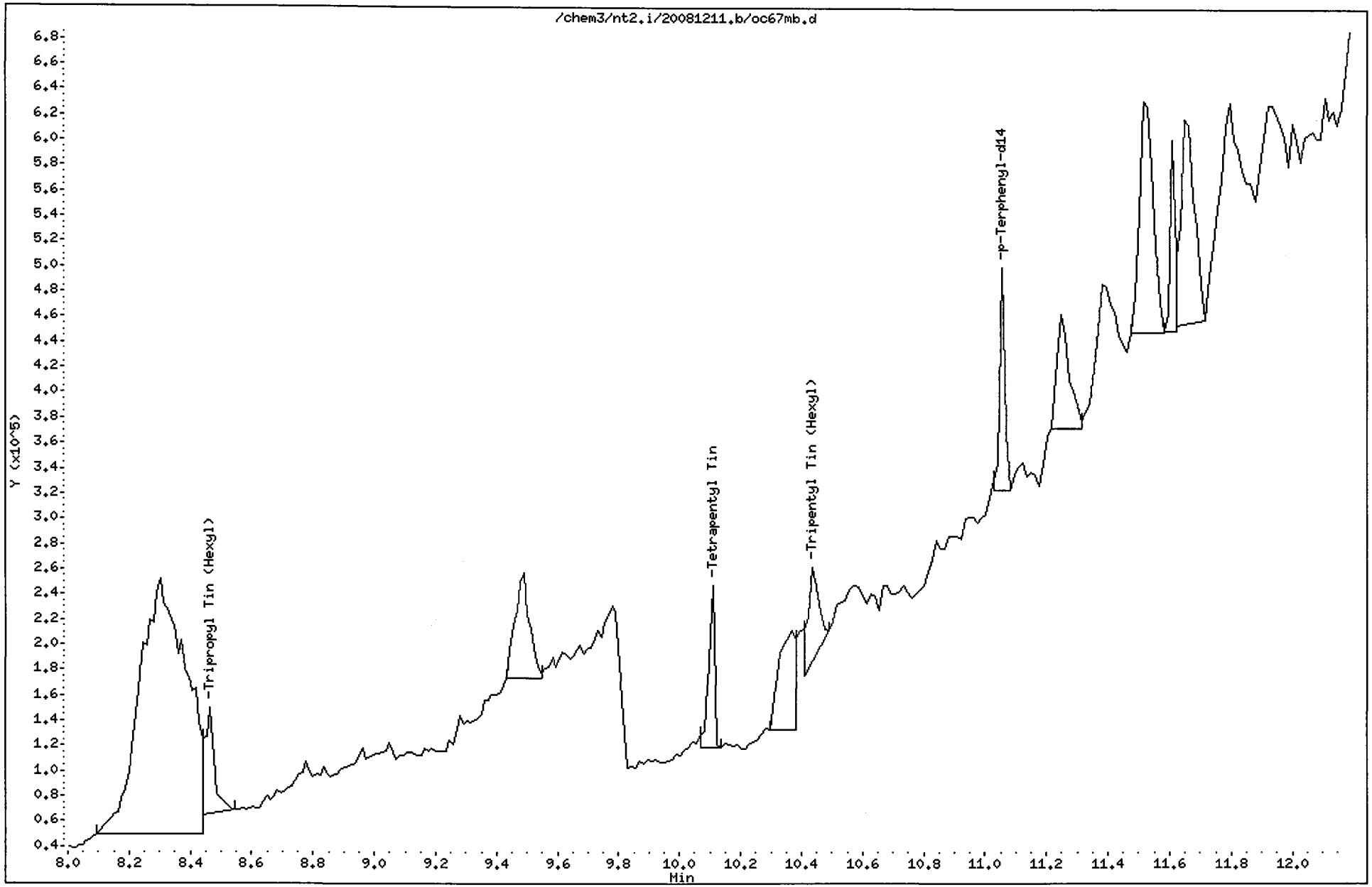
Data File: /chem3/nt2.i/20081211.b/oc67mb.d
Date : 11-DEC-2008 15:21
Client ID: OC67MBS1
Sample Info: OC67MBS1

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5

OC67:05192



Analytical Resources, Inc.

Butyl Tins - GC/MS SIM

Data file : /chem3/nt2.i/20081211.b/oc67sb.d
Lab Smp Id: OC67LCSS1 Client Smp ID: OC67LCSS1
Inj Date : 11-DEC-2008 16:00
Operator : VTS Inst ID: nt2.i
Smp Info : OC67LCSS1
Misc Info : 08-32584
Comment : 2 ul Injection
Method : /chem3/nt2.i/20081211.b/lowbts.m
Meth Date : 11-Dec-2008 15:56 van Quant Type: ISTD
Cal Date : 11-DEC-2008 13:05 Cal File: ic1211f.d
Als bottle: 15 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SED.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Effective Final Volume of extract (uL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	Percent Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	1 Tripropyl Tin (Hexyl)	291	8.464	8.465	(0.838)	29055	0.50212	50.21(R)
	2 Tetrabutyl Tin	289	Compound Not Detected.					
	3 Tributyl Tin (Hexyl)	319	9.455	9.454	(0.936)	21457	0.45411	45.41
*	4 Tetrapentyl Tin	333	10.099	10.098	(1.000)	156388	2.00000	
	5 Dibutyl Tin (Hexyl)	347	10.153	10.152	(0.918)	16711	0.45637	45.64
$	6 Tripentyl Tin (Hexyl)	345	10.437	10.439	(0.944)	23787	0.61729	61.73
	7 Butyl Tin (Hexyl)	347	10.774	10.776	(0.974)	32740	0.59742	59.74(R)
*	8 p-Terphenyl-d14	244	11.057	11.059	(1.000)	181182	0.20000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

VTS
12-12-2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: oc67sb.d
Lab Smp Id: OC67LCSS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20081211.b/lowbts.m
Misc Info: 08-32584

Calibration Date: 11-DEC-2008
Calibration Time: 11:28
Client Smp ID: OC67LCSS1
Level: LOW
Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	264254	132127	528508	156388	-40.82
8 p-Terphenyl-d14	275807	137904	551614	181182	-34.31

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	10.10	9.60	10.60	10.10	0.01
8 p-Terphenyl-d14	11.06	10.56	11.56	11.06	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: OC67LCSS1
Level: LOW
Data Type: MS DATA
SpikeList File: SEDLCS.spk
Sublist File: SED.sub
Method File: /chem3/nt2.i/20081211.b/lowbts.m
Misc Info: 08-32584

Client SDG: OC67
Fraction: SV
Client Smp ID: OC67LCSS1
Operator: VTS
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3 Tributyl Tin (Hexy	50.00	45.41	90.82	59-143
5 Dibutyl Tin (Hexyl	50.00	45.64	91.27	48-115
7 Butyl Tin (Hexyl)	50.00	59.74	119.48*	20-113

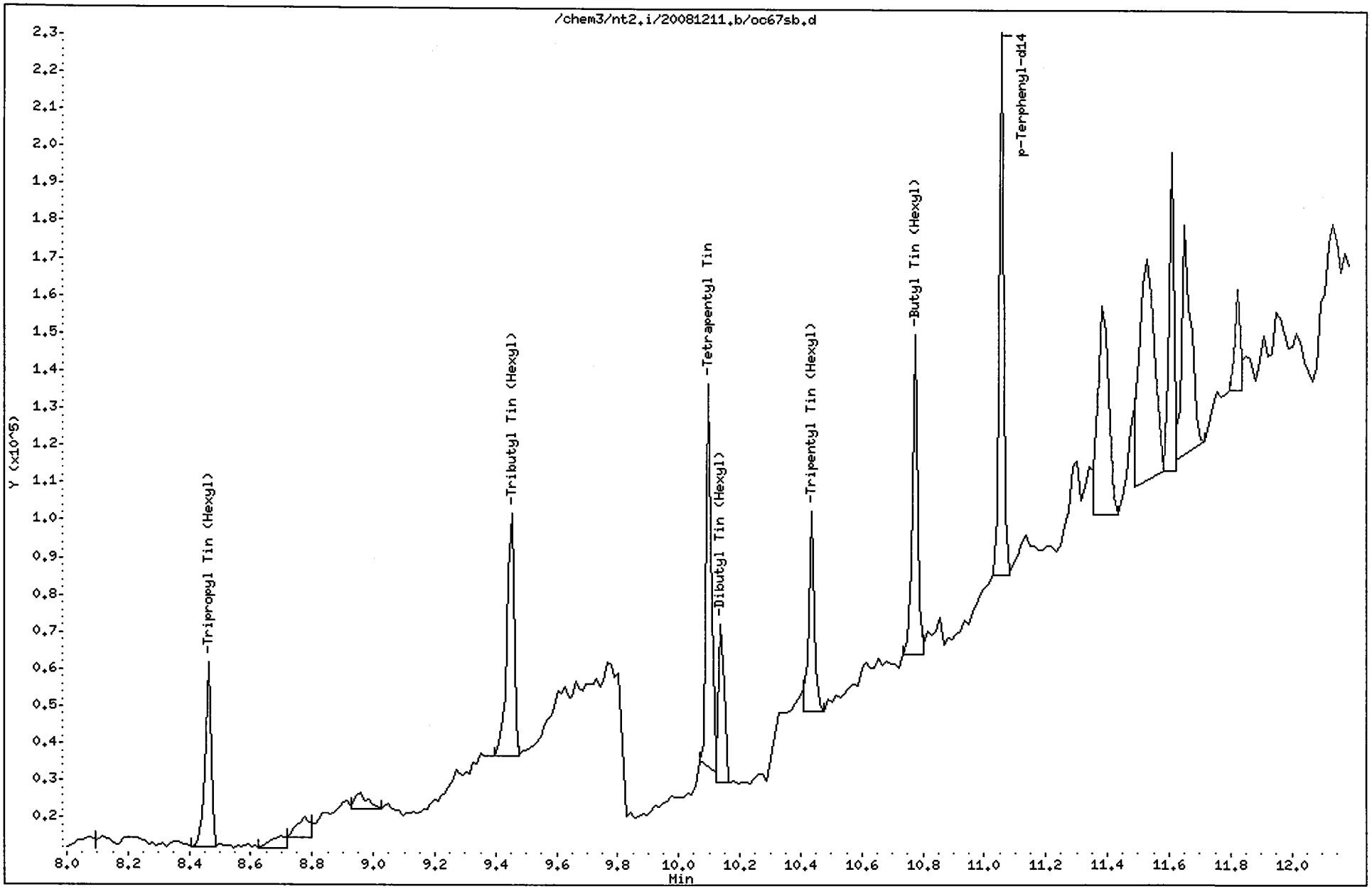
SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 Tripropyl Tin (Hex	50.00	50.21	100.42*	25-96
$ 6 Tripentyl Tin (Hex	50.00	61.73	123.46	30-136

Data File: /chem3/nt2.i/20081211.b/oc67sb.d
Date : 11-DEC-2008 16:00
Client ID: OC67LCSS1
Sample Info: OC67LCSS1

Instrument: nt2.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



OC67:991959

TBT Analysis
Extraction Bench Sheets/Run Logs

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OC67

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

Tributyl Tin – Soil / Sediment

Microwave (3546) (SOP # 397S)

Preparation Test TBT # 4

ARI Job No(s) QC67

In-House
Batch set up by: SP

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted	Turbo Vap (1) 2 3 **Exchange To Hexane**	**(REQ)** Derivitize **(1:1)**	**(REQ)** Alumina Clean-up **(1:1)**	Turbo Vap (1) 2 3	Final Effective Volume	Volume to Lab	Comments
	QC67 MB	Date 12/07/08	5.00g	↓	4mL	4mL	↓	0.5mL	0.5mL	
	↓ SB	/	↓	↓	↓	↓	↓	↓	↓	
	~~SB Dup.~~		↓		↓	↓		↓	↓	
	QC67 A	Checked	8.91	↓	↓	↓	↓	↓	↓	
	↓ Adup	/	8.27	↓	↓	↓	↓	↓	↓	
Analyst/Date:		AR 12/09/08 →		SP 12/10/08					→	

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	L	25µL	12/8/08	PD	AR
Spike	8	25µL	12/15/08	PD	AR
Extraction Time:	10:20				

SPECIAL INSTRUCTIONS: 1. Weigh samples into 100mL beakers-dry with Sodium Sulfate. 2. Pre-Rinse microwave vessel with 0.10% Tropolone in DCM. 3. Transfer soil to microwave vessel. 4. Add 20mL 0.10% Tropolone in DCM to vessel (if needed-Add 5mL increments until solvent is 1" above soil layer). 5. Add surr/spike. 6. Mix samples thoroughly before microwaving. 7. Microwave on appropriate power setting determined by # of samples. 8. After microwave-let cool 10-15 min. 9. Collect into turbo tube with sm. Funnel containing glasswool and 1" sodium sulfate. 10. Add (2) 10mL Hexane rinses to vessel and transfer to turbo tube. 11. TurboVap to 4mL and add 10mL Hexane. 12. TurboVap to 3mL-Transfer with Hexane to 40mL VOA vial. 13. Derivitize=1 pipet HexMgBr (Mix by hand). Let sit 45min (mix every 10 min). Add (2) pipet 1:1 HCL. Vortex. Draw off/discard HCL. Add 1 pipet 1:1 HCL and 5mL DI H2O. Vortex. Draw off/discard H20. Add 5mL DI H2O. Vortex. Draw off/discard H2O. 14. Add sodium sulfate-Let sit 15min. 15. 5 g 0% Alumina Clean-up Required. 16. TurboVap. 17. Vial.

A. Archive Y / N

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory
Analyst Notes

ARI Job No.: 0067 Client ID: Anchor Environmental, LLC

Parameter: TBT Client Project: Eddon Boatyard

SOP Number(s): 3975 No Anomalies:

List problems, concerns, corrective actions and any other pertinent information

Analyst Initials:		Date:	

Extractions Total Solids-extts
Data By: Tae K. You
Created: 12/ 8/08

Worklist: 9220
Analyst: TKY
Comments:

	ARI ID / CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1.	OC67A 08-32584 EB-SE-03-ZZ-081015	1.24	12.37	8.88		NR

Analytical Resources Inc.: Organics Instrument Log

NT-2 Serial No.: 82321977

Date: 12.11.2008 Analysis: TBTS Analyst: VTS

GC Program: BTS240 Column No: 151549 Column Type: ZB-5ms;

Instrument Tune (.U or .CT.): 080124.U EM Voltage: 2694

Calibration File: df1211 Curve Date: 12.11.2008

IS/SS	Ical/Ccal	LCS/ICV
(1487-3)	(1531-1)	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt

	Time	Filename	LabID	ClientId	DF				
1	1111	df1211.d	DF1211		1	NO ISTDS FOUND			
2	1128	ic1211a.d	IC1211A		1	10.10	264254	11.06	275807
3	1148	ic1211b.d	IC1211B		1	10.10	280661	11.06	260001
4	1207	ic1211c.d	IC1211C		1	10.10	252619	11.06	280285
5	1226	ic1211d.d	IC1211D		1	10.10	260257	11.06	267817
6	1246	ic1211e.d	IC1211E		1	10.10	245408	11.06	271851
7	1305	ic1211f.d	IC1211F		1	10.10	260568	11.06	271920
8	1324	od27mb.d	OD27MBS1	OD27MBS1	1	10.10	169698	11.06	161586
9	1344	od27sb.d	OD27LCSS1	OD27LCSS1	1	10.10	154092	11.06	157130
10	1403	od27sbd.d	OD27LCSDS1	OD27LCSDS1	1	10.10	150774	11.06	146747
11	1423	od27h.d	OD27H	MW-7-0-0.5	1	10.11	185199	11.06	231828
12	1442	od27hms.d	OD27HMS	MW-7-0-0.5 MS	1	10.11	203855	11.06	233382
13	1502	od27hmsd.d	OD27HMSD	MW-7-0-0.5 MSD	1	10.11	222843	11.06	302951
14	1521	oc67mb.d	OC67MBS1	OC67MBS1	1	10.11	176768	11.06	252892
15	1541	od27hdl.d	OD27H	MW-7-0-0.5	20	10.11	157123	11.06	214314
16	1600	oc67sb.d	OC67LCSS1	OC67LCSS1	1	10.10	156388	11.06	181182
17	1619	oc67a.d	OC67A	EB-SE-03-ZZ-081015	1	10.10	142656	11.06	183016
18	1639	oc67adup.d	OC67ADUP	EB-SE-03-ZZ-081 DUP	1	10.10	142463	11.06	170660
19	1658	oc80mb.d	OC80MBS1	OC80MBS1	1	10.10	146250	11.06	156666
20	1718	oc80sb.d	OC80LCSS1	OC80LCSS1	1	10.10	144327	11.06	158639
21	1737	oc80a.d	OC80A	COMP A-U	1	10.10	144108	11.06	145602
22	1756	oc80b.d	OC80B	COMP A-L	1	10.10	148021	11.06	152169
23	1816	oc80c.d	OC80C	COMP B-U	1	10.10	149336	11.06	143791
24	1835	oc80d.d	OC80D	COMP B-L	1	10.10	146934	11.06	148512
25	1855	oc80dms.d	OC80DMS	COMP B-L MS	1	10.10	152373	11.06	156887
26	1914	oc80dmsd.d	OC80DMSD	COMP B-L MSD	1	10.10	158749	11.06	151227

Ma

Ma

Ever

n control): ICI211A

w page for each QC period.

New liner/new septum/clipped column/flushed injector

12.12.2008 VTS

OC67 : 00111

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: TBT Curve Client ID: _____

ARI SOP: **801S**(SIM-PNA) **802S**(BTS-HX) **803S**(BTS-PW) **804S**(8270D) **805S**(BTS-ET)

Parameter(s): TBT Curve

Instrument: NT-1 NT-2 NT-4 NT-6

Curve Date: 12.11.2008 Analysis Start Date: 12.11.2008

DFTPP Tune Meets Criteria?	YES / NO	Internal Standard Meets Criteria?	YES / NO
DDT Breakdown <20%?	YES / NO / NA	Method Blank in Control?	YES / NO
Peak Tailing Factor in Control?	YES / NO / NA	LCS / LCSD Recovery in Control?	YES / NO
ICal Meets RF & %RSD Criteria?	YES / NO	Surrogate Recovery in Control?	YES / NO
CCal Meets RF & %RSD Criteria?	YES / NO	Special Analysis Criteria Met?	YES / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

- All targets met 15% RSD

Additional Details on Reverse: Yes / No

Analyst Signature: _____ **Date:** 12.12.2008

Reviewer's Signature: _____ **Date:** 12/12/08

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: OC67 Client ID: Anchor

ARI SOP: **801S**(SIM-PNA) **802S**(BTS-HX) **803S**(BTS-PW) **804S**(8270D) **805S**(BTS-ET)

Parameter(s): TBTS

Instrument: NT-1 NT-2 NT-4 NT-6

Curve Date: 12.11.2008 Analysis Start Date: 12.11.2008

DFTPP Tune Meets Criteria?	YES / NO	Internal Standard Meets Criteria?	YES / NO
DDT Breakdown <20%?	YES / NO / NA	Method Blank in Control?	YES / NO
Peak Tailing Factor in Control?	YES / NO / NA	LCS / LCSD Recovery in Control?	YES / NO
ICal Meets RF & %RSD Criteria?	YES / NO	Surrogate Recovery in Control?	YES / NO
CCal Meets RF & %RSD Criteria?	YES / NO	Special Analysis Criteria Met?	YES / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

- E value for TBT on ADUP.
- Dilution NOT run, NO provision in Lims to report dilution for DUP.
- Full package

Additional Details on Reverse: Yes / No

Analyst Signature: V. C. **Date:** 12.11.2008

Reviewer's Signature: _____ **Date:** _____

Metals Analysis
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OC67

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: EB-SE-03-ZZ-081015
SAMPLE

Lab Sample ID: OC67A
LIMS ID: 08-32584
Matrix: Sediment
Data Release Authorized:
Reported: 12/30/08

QC Report No: OC67-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/15/08
Date Received: 10/15/08

Percent Total Solids: 67.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	12/09/08	6010B	12/29/08	**7440-38-2**	**Arsenic**	7	**7**	
3050B	12/09/08	6010B	12/29/08	**7440-43-9**	**Cadmium**	0.3	**0.4**	
3050B	12/09/08	6010B	12/29/08	**7440-47-3**	**Chromium**	0.7	**22.7**	
3050B	12/09/08	6010B	12/29/08	**7440-50-8**	**Copper**	0.3	**70.4**	
3050B	12/09/08	6010B	12/29/08	**7439-92-1**	**Lead**	3	**27**	
CLP	12/09/08	7471A	12/15/08	**7439-97-6**	**Mercury**	0.07	**0.38**	
3050B	12/09/08	6010B	12/29/08	7440-22-4	Silver	0.4	0.4	U
3050B	12/09/08	6010B	12/29/08	**7440-66-6**	**Zinc**	1	**54**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: EB-SE-03-ZZ-081015
DUPLICATE

Lab Sample ID: OC67A
LIMS ID: 08-32584
Matrix: Sediment
Data Release Authorized:
Reported: 12/30/08

QC Report No: OC67-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/15/08
Date Received: 10/15/08

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	6010B	7	7 U	0.0%	+/- 7	L
Cadmium	6010B	0.4	0.4	0.0%	+/- 0.3	L
Chromium	6010B	22.7	22.6	0.4%	+/- 20%	
Copper	6010B	70.4	81.9	15.1%	+/- 20%	
Lead	6010B	27	30	10.5%	+/- 20%	
Mercury	7471A	0.38	0.33	14.1%	+/- 0.07	L
Silver	6010B	0.4 U	0.4 U	0.0%	+/- 0.4	L
Zinc	6010B	54	53	1.9%	+/- 20%	

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

Metals Analysis
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OC67

prepared
by

Analytical Resources, Inc.

Cover Page

INORGANIC ANALYSIS DATA PACKAGE

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

SDG: OC67

CLIENT ID	ARI ID	ARI LIMS ID	REPREP
EB-SE-03-ZZ-081015	OC67A	08-32584	
EB-SE-03-ZZ-081015D	OC67ADUP	08-32584	
PBS	OC67MB1	08-32584	
LCSS	OC67MB1SPK	08-32584	

Were ICP interelement corrections applied ?	Yes/No	YES
Were ICP background corrections applied ?	Yes/No	YES
If yes - were raw data generated before application of background corrections ?	Yes/No	NO

Comments: _____

THIS DATA PACKAGE HAS BEEN REVIEWED AND AUTHORIZED FOR RELEASE BY:

Signature: J Bouldron Name: Jenifer Bouldron

Date: 1/6/2009 Title: Metals Supervisor

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: LAB CONTROL**

Lab Sample ID: OC67LCS
LIMS ID: 08-32584
Matrix: Sediment
Data Release Authorized:
Reported: 12/30/08

QC Report No: OC67-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	205	200	102%	
Cadmium	6010B	47.8	50.0	95.6%	
Chromium	6010B	47.4	50.0	94.8%	
Copper	6010B	49.6	50.0	99.2%	
Lead	6010B	201	200	100%	
Mercury	7471A	1.05	1.00	105%	
Silver	6010B	53.9	50.0	108%	
Zinc	6010B	48	50	96.0%	

Reported in mg/kg-dry

N-Control limit not met
NA-Not Applicable, Analyte Not Spiked
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: METHOD BLANK**

Lab Sample ID: OC67MB
LIMS ID: 08-32584
Matrix: Sediment
Data Release Authorized:
Reported: 12/30/08

QC Report No: OC67-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	12/09/08	6010B	12/29/08	7440-38-2	Arsenic	5	5	U
3050B	12/09/08	6010B	12/29/08	7440-43-9	Cadmium	0.2	0.2	U
3050B	12/09/08	6010B	12/29/08	7440-47-3	Chromium	0.5	0.5	U
3050B	12/09/08	6010B	12/29/08	7440-50-8	Copper	0.2	0.2	U
3050B	12/09/08	6010B	12/29/08	7439-92-1	Lead	2	2	U
CLP	12/09/08	7471A	12/15/08	7439-97-6	Mercury	0.05	0.05	U
3050B	12/09/08	6010B	12/29/08	7440-22-4	Silver	0.3	0.3	U
3050B	12/09/08	6010B	12/29/08	7440-66-6	Zinc	1	1	U

U-Analyte undetected at given RL
RL-Reporting Limit

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

UNITS: ug/L

SDG: OC67

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Arsenic	AS	ICP	IP122922	2000.0	2095.95	104.8	2000.0	2066.01	103.3	2014.03	100.7	2004.47	100.2				
Cadmium	CD	ICP	IP122922	1000.0	1028.63	102.9	1000.0	994.00	99.4	956.51	95.7	948.36	94.8				
Chromium	CR	ICP	IP122922	1000.0	991.13	99.1	1000.0	964.14	96.4	941.30	94.1	941.96	94.2				
Copper	CU	ICP	IP122922	1000.0	1051.26	105.1	1000.0	1023.94	102.4	1020.19	102.0	1024.40	102.4				
Lead	PB	ICP	IP122922	2000.0	2063.94	103.2	2000.0	2006.96	100.3	1986.34	99.3	1994.75	99.7				
Mercury	HG	CVA	HG121501	8.0	8.05	100.6	4.0	4.05	101.3	4.21	105.3						
Silver	AG	ICP	IP122922	1000.0	1089.55	109.0	1000.0	1067.42	106.7	1067.89	106.8	1077.61	107.8				
Zinc	ZN	ICP	IP122922	1000.0	1032.34	103.2	1000.0	1009.07	100.9	986.82	98.7	996.98	99.7				

Control Limits: Mercury 80-120; Other Metals 90-110

CRDL Standard

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

UNITS: ug/L

SDG: OC67

ANALYTE	EL	M	RUN	CRA/I TV	CR-1	%R	CR-2	%R	CR-3	%R	CR-4	%R	CR-5	%R	CR-6	%R
Arsenic	AS	ICP	IP122922	50.0	44.98	**90.0**										
Cadmium	CD	ICP	IP122922	2.0	1.94	**97.0**										
Chromium	CR	ICP	IP122922	5.0	3.30	**66.0**										
Copper	CU	ICP	IP122922	2.0	1.95	**97.5**										
Lead	PB	ICP	IP122922	20.0	21.07	**105.4**										
Mercury	HG	CVA	HG121501	0.1	0.11	**110.0**										
Silver	AG	ICP	IP122922	3.0	2.99	**99.7**										
Zinc	ZN	ICP	IP122922	10.0	10.03	**100.3**										

Control Limits: no control limits have been established by the EPA at this time.

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

SDG: OC67

UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	ICB	C	CCB1	C	CCB2	C	CCB3	C	CCB4	C	CCB5	C
Arsenic	AS	ICP	IP122922	10.0	50.0	50.0	U	50.0	U	50.0	U	50.0	U				
Cadmium	CD	ICP	IP122922	5.0	2.0	2.0	U	2.0	U	2.0	U	2.0	U				
Chromium	CR	ICP	IP122922	10.0	5.0	5.0	U	5.0	U	5.0	U	5.0	U				
Copper	CU	ICP	IP122922	25.0	2.0	2.0	U	2.0	U	2.0	U	2.0	U				
Lead	PB	ICP	IP122922	3.0	20.0	20.0	U	20.0	U	20.0	U	20.0	U				
Mercury	HG	CVA	HG121501	0.2	0.1	0.1	U	0.1	U	0.1	U						
Silver	AG	ICP	IP122922	10.0	3.0	3.0	U	3.0	U	3.0	U	3.0	U				
Zinc	ZN	ICP	IP122922	20.0	10.0	10.0	U	10.0	U	10.0	U	10.0	U				

ICP Interference Check Sample

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

ICS SOURCE: I.V.

PROJECT: EDDON BOATYARD

RUNID: IP122922

SDG: OC67

INSTRUMENT ID: OPTIMA ICP 1

UNITS: ug/L

ANALYTE	ICSA TV	ICSAB TV	ICSA1	ICSAB1	%R	ICSA2	ICSAB2	%R	ICSA3	ICSAB3	%R
Aluminum	200000	200000	201341.8	203740.9	**101.9**						
Antimony		1000	-14.5	1053.5	**105.4**						
Arsenic		1000	24.6	1091.9	**109.2**						
Barium		1000	0.0	978.0	**97.8**						
Beryllium		1000	-0.1	1027.3	**102.7**						
Boron			-0.5	2.2							
Cadmium		1000	0.8	998.5	**99.9**						
Calcium	100000	100000	100374.5	101650.1	**101.7**						
Chromium		1000	1.4	976.2	**97.6**						
Cobalt		1000	0.6	943.8	**94.4**						
Copper		1000	2.8	1051.4	**105.1**						
Iron	200000	200000	201280.2	203248.3	**101.6**						
Lead		1000	11.6	1007.9	**100.8**						
Magnesium	100000	100000	103816.8	105019.3	**105.0**						
Manganese		1000	-1.0	981.5	**98.2**						
Molybdenum			2.4	4.5							
Nickel		1000	-4.0	954.0	**95.4**						
Potassium			-67.2	-54.4							
Selenium		1000	-31.4	1027.5	**102.8**						
Silicon			32.1	38.1							
Silver		1000	2.1	1122.0	**112.2**						
Sodium			62.8	39.3							
Strontium			2.1	2.0							
Thallium		1000	-28.9	964.8	**96.5**						
Tin			-5.4	-8.8							
Titanium			6.2	5.7							
Vanadium		1000	-1.7	1020.4	**102.0**						
Zinc		1000	-15.6	945.7	**94.6**						

OC67ISA1

IDLs and ICP Linear Ranges

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

SDG: OC67 UNITS: ug/L

ANALYTE	EL	METH	INSTRUMENT	WAVELENTH (nm)	GFA BACK-GROUND	CLP CRDL	RL	RL DATE	ICP LINEAR RANGE (ug/L)	ICP LR DATE
Arsenic	AS	ICP	OPTIMA ICP 1	188.98		10	50.0	3/1/2008	30000.0	7/19/2008
Cadmium	CD	ICP	OPTIMA ICP 1	228.80		5	2.0	3/1/2008	20000.0	7/19/2008
Chromium	CR	ICP	OPTIMA ICP 1	267.72		10	5.0	3/1/2008	100000.0	7/19/2008
Copper	CU	ICP	OPTIMA ICP 1	324.75		25	2.0	3/1/2008	40000.0	7/19/2008
Lead	PB	ICP	OPTIMA ICP 1	220.35		3	20.0	3/1/2008	300000.0	7/19/2008
Mercury	HG	CVA	CETAC MERCURY	253.70		0.2	0.1	3/1/2008		
Silver	AG	ICP	OPTIMA ICP 1	328.07		10	3.0	3/1/2008	5000.0	7/19/2008
Zinc	ZN	ICP	OPTIMA ICP 1	206.20		20	10.0	3/1/2008	100000.0	7/19/2008

ICP Interelement Correction Factors

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

IEC DATE: 11/28/2008

SDG: OC67

INSTRUMENT ID: OPTIMA ICP 1

ANALYTE	WAVELENGTH	AL	AS	BA	BE	CA	CD	CO	CR	CU	FE
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	1.2732700	14.5309000	0.0000000	0.0000000
Arsenic	188.98	0.2833790	0.0000000	0.0000000	0.0000000	0.1018490	0.0000000	0.1353450	1.3938700	0.0000000	0.1145170
Barium	233.53	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.2427830	0.0000000	0.0000000	0.0527236
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	3.8834600	0.0000000	0.0000000	0.0000000	0.0000000	0.1148400	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	1.2165400	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.1207060	0.0000000	0.0000000	-0.0271369
Cobalt	228.62	0.0000000	0.0000000	0.2332610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.3649680	-0.0508337	0.0000000	-0.0881507
Iron	273.96	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.6286400	0.0000000	0.0000000
Lead	220.35	-0.4009660	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-1.9186900	1.3143900	0.0423960
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-1.8711800	-1.0657700	0.0000000	0.4724420
Manganese	257.61	0.0121268	0.0000000	0.0000000	0.0000000	0.0041367	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0271856	0.0000000	0.0419030	0.0000000	-0.1092540	0.0294891	0.0921328	0.0000000
Nickel	231.60	0.0310880	0.0000000	0.4983500	0.0000000	0.0109293	0.0000000	0.2238930	0.0000000	0.0000000	0.0292052
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	-0.1811330	0.0000000	0.0000000	0.0000000	-0.1334170	0.0000000	0.0000000	0.0000000	0.0000000	-0.2695850
Silicon	288.16	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-3.9507100	0.0000000	-0.9138100	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0857551	-0.0433254
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.0000000	0.0000000	-0.9027370	0.0000000	0.0000000	0.0000000	7.0294700	0.3132260	0.0000000	0.0000000
Tin	189.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0703695
Titanium	334.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.2648950	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-6.5185000	0.0000000	0.0748076
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	-0.0377260	0.0000000	0.0000000	0.3322470	0.0000000	0.0000000

OC67.5126

ICP Interelement Correction Factors

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

IEC DATE: 11/28/2008

SDG: OC67

INSTRUMENT ID: OPTIMA ICP 1

ANALYTE	WAVELENGTH	MG	MN	MO	NI	PB	SB	TI	TL	V	ZN
Aluminum	308.22	0.0000000	0.0000000	23.0550000	0.0000000	0.0000000	0.0000000	0.7781760	0.0000000	13.6611000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-2.6770800	0.0000000	-5.2836000	0.0000000
Arsenic	188.98	0.0000000	0.4936670	4.7372600	0.1042370	0.0000000	-0.4305420	1.8128300	0.0000000	3.0445100	0.1894490
Barium	233.53	0.0000000	0.0000000	-0.1166780	0.2757250	0.0000000	0.0000000	0.0000000	0.0000000	0.4678230	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0152698	0.0000000	2.5974700	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	-0.2426340	0.0000000	0.0000000	0.0000000	0.0000000	0.0721945	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0413785	0.1791180	0.0888594	0.0000000	0.0000000	0.0000000	0.0488191	0.0000000	0.2223410	0.0000000
Cobalt	228.62	0.0000000	0.0000000	-0.4392950	0.0951613	0.0000000	0.0000000	1.9019500	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.3787470	0.0000000	0.0000000	0.0000000	0.1893670	0.0000000	0.0000000	0.0000000
Iron	273.96	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	1.3129600	0.0000000
Lead	220.35	0.0000000	0.0000000	-0.3024400	0.2396540	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	-1.7766400	-2.2128300	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	-0.5195260	0.0390086	0.0000000	0.0000000	-0.0374540	0.0000000
Molybdenum	202.03	0.0098559	0.0000000	0.0000000	0.0941824	-0.0211812	0.0000000	-0.0446269	0.0000000	0.0000000	-0.2152140
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.8345070	0.0000000	0.3671190	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0000000	0.0000000	0.5569670	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	288.16	-0.1746950	0.0000000	-2.0250800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0393833	0.0000000	-0.1702720	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	200.9930000	0.0000000	0.0000000	395.0870000
Thallium	190.80	0.0000000	1.6117800	2.0980400	0.0000000	0.0981087	0.0000000	1.5805300	0.0000000	4.7416800	0.0000000
Tin	189.93	-0.0392988	0.0000000	0.0000000	0.0000000	0.0000000	-0.4200130	-0.3361450	0.0000000	0.0000000	0.0000000
Titanium	334.90	0.0000000	0.0000000	0.9267120	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	-0.1237460	-7.7519200	0.0000000	0.0000000	0.0000000	0.7845100	0.0000000	0.0000000	0.0000000
Zinc	206.20	-0.0516239	0.3197280	0.3020600	0.0000000	-0.1262840	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

OC67 SDG

Preparation Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

SDG: OC67

ANALYSIS METHOD: CVA

ARI PREP CODE: SMM

PREPDATE: 12/9/2008

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
EB-SE-03-ZZ-081015	OC67A	0.227	0.0	100.0
EB-SE-03-ZZ-081015D	OC67ADUP	0.222	0.0	100.0
PBS	OC67MB1	0.200	0.0	100.0
LCSW	OC67MB1SPK	0.200	0.0	100.0

Preparation Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

SDG: OC67

ANALYSIS METHOD: ICP

ARI PREP CODE: SWC

PREPDATE: 12/9/2008

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
EB-SE-03-ZZ-081015	OC67A	1.035	0.0	50.0
EB-SE-03-ZZ-081015D	OC67ADUP	1.037	0.0	50.0
PBS	OC67MB1	1.000	0.0	50.0
LCSS	OC67MB1SPK	1.000	0.0	50.0

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD | INSTRUMENT ID: OPTIMA ICP 1 | START DATE: 12/29/2008

SDG: OC67 | RUNID: IP122922 | METHOD: ICP | END DATE: 12/29/2008

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
S0	S0	1.00	14100		X		X					X		X	X									X									X
S2	S2	1.00	14164									X		X	X																		
S3	S3	1.00	14211		X		X																	X									X
S4	S4	1.00	14265																														
S5	S5	1.00	14314																														
ICV	ICV	1.00	14501		X		X					X		X	X									X									X
ICB	ICB	1.00	14573		X		X					X		X	X									X									X
CRI	CRII	1.00	15041		X		X					X		X	X									X									X
ICSA	ICSAI	1.00	15105		X		X					X		X	X									X									X
ICSAB	ICSABI	1.00	15180		X		X					X		X	X									X									X
CCV	CCV1	1.00	15251		X		X					X		X	X									X									X
CCB	CCB1	1.00	15330		X		X					X		X	X									X									X
ZZZZZZ	DICHECK	1.00	15385																														
ZZZZZZ	QC21	1.00	15453																														
ZZZZZZ	QC7M	1.00	15521																														
ZZZZZZ	OC04RADUP	5.00	15585																														
ZZZZZZ	OC04RA	5.00	16062																														
ZZZZZZ	OC04RASPK	5.00	16140																														
ZZZZZZ	D1	1.00	16213																														
ZZZZZZ	OC47MBSPK	1.00	16320																														
CCV	CCV2	1.00	16392		X		X					X		X	X									X									X
CCB	CCB2	1.00	16520		X		X					X		X	X									X									X
PBS	OC67MB1	2.00	16584		X		X					X		X	X									X									X
ZZZZZZ	OD42MB	2.00	17062																														
ZZZZZZ	OD42A	2.00	17141																														
ZZZZZZ	OD42D	2.00	17220																														
ZZZZZZ	OD42G	2.00	17293																														
EB-SE-03-ZZ-081015D	OC67ADUP	2.00	17370		X		X					X		X	X									X									X
EB-SE-03-ZZ-081015	OC67A	2.00	17445		X		X					X		X	X									X									X
LCSS	OC67MB1SPK	2.00	17523		X		X					X		X	X									X									X
ZZZZZZ	OD42MBSPK	2.00	18002																														
ZZZZZZ	D2	1.00	18080																														
CCV	CCV3	1.00	18155		X		X					X		X	X									X									X
CCB	CCB3	1.00	18241		X		X					X		X	X									X									X

OC67.0159

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD | INSTRUMENT ID: CETAC MERCURY | START DATE: 12/15/2008

SDG: OC67 | RUNID: HG121501 METHOD: CVA | END DATE: 12/15/2008

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
S0	S0	1.00	12163														X																
S0.1	S0.1	1.00	12180														X																
S0.5	S0.5	1.00	12194														X																
S1	S1	1.00	12212														X																
S2	S2	1.00	12225														X																
S5	S5	1.00	12243														X																
S10	S10	1.00	12261														X																
ICV	AICV	1.00	12292														X																
ICB	ICB	1.00	12305														X																
CCV	ACCV1	1.00	12323														X																
CCB	CCB1	1.00	12341														X																
CRA	CRA	1.00	12355														X																
PBW	OC67MB1	1.00	12372														X																
LCSW	OC67MB1SPK	1.00	12390														X																
EB-SE-03-ZZ-081015	OC67A	1.00	12404														X																
EB-SE-03-ZZ-081015D	OC67ADUP	1.00	12421														X																
ZZZZZZ	OD17MB1	1.00	12435																														
ZZZZZZ	OD17MB1SPK	1.00	12453																														
ZZZZZZ	OD17MB1SPD	1.00	12470																														
ZZZZZZ	OD17A	1.00	12484																														
ZZZZZZ	OD17ADUP	1.00	12502																														
CCV	ACCV2	1.00	12520														X																
CCB	CCB2	1.00	12534														X																

OC67 SDG

Metals Analysis
Instrument Raw Data and Run Logs

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OC67

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

OPTIMA ICP SAMPLE RUN LOG

IEC Date: 1.28.8 Analysis Date: 1.29.8 Analyst: dt3

LR Date: 1.24.8 Page: 1 of 4

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		STD0			2554.10
		2			2555-1
		3			-2
		4			-3
		5			-4
		STD0			
		ICV			2550-9 Stk High Agueous
		ICB			
		STD0			See previous
		2			
		3			
		4			
		5			
		ICV			2550-9
		ICB			
		CRI			
		ICSA			
		ICSAB			
		CCV1			
		CCB1			
		PICHECK		✓	rrun Ca, Mg
		QC21		✓	
		QC7M		✓	
		OC04R ADUP	SWC	5	Cd 28% Diff

Analytical Resources, Incorporated
Analytical Chemists and Consultants

OPTIMA ICP SAMPLE RUN LOG

IEC Date: _____ Analysis Date: 12.29.8 Analyst: MB

LR Date: _____ Page: 2 of 4

All corrections made by analyst unless otherwise noted. R220.0 SOP

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		OC04R A	SWC	5	
		↓ ACQK	↓	6	B2008, SB17.58 CAF Calibration
		DI			
		OC47 MBSPK	WMN		0.05ml ICSPK / 8 mls
		CCV2			
		CCB2			
		OC67 MB1	SWC	2 ✓	
		OD42 MB			Zn 0.012 mg/L A.N.
		A			
		D			
		G			
		OC67 ADUP		✓	
		A			
		MBSPK		✓	
		OD42 MBSPK	↓	↓ ✓	
		D2			
		CCV3			
		CCB3			end plan
		OD00 MB	TWC	✓	
		OE50 MB	SWC	2 ✓	
	✓	OE45 MB	TWC	✓	
		OD13 A	SWC	10	
		OD57 A	↓	2	
		OE50A	↓	6	

12/29/08

ANALYTICAL RESOURCES INCORPORATED

Metals Data Review Checklist

Method: (ICP) ICP-MS GFA CVA **Analysis Date:** 12.29.8

	Analyst JLB 12.30.8	Peer AA 01/20	Comment
Logbook:			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration:			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	SEE LOG
Calibration Verification:			
ICV/CCV	✓	✓	SEE LOG
ICB/CCB	✓	✓	"
Samples:			
RSD's & SD's	✓	✓	
Internal Standards	✓	✓	
Carry-over	✓	✓	
Method QC:			
CRI/CRA	✓	✓	
ICSA/ICSAB	✓	✓	
Post Spikes/Serial Dilutions	—	—	
Analytic Spikes	—	—	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	CC04R
Matrix Duplicates	✓	✓	&
Method Blanks	✓	✓	OD13, OD4Z A.N.
Data Distribution:			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
Necessary Analysts Notes and CAF's	✓	✓	CC04R, OD13, OD4Z

Nebulizer Parameters: Hg_ReAlign

Analyte	Back Pressure	Flow
All	137.0 kPa	0.55 L/min

12/29/2008 12:54:48 PM Hg ReAlign... Actual peak offset (nm): -0.002
Drift (nm): 0.001 Slit adjustment: 3

Analysis Begun

Start Time: 12/29/2008 1:03:10 PM
Plasma On Time: 12/29/2008 12:16:42 PM
Logged In Analyst: metals
Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISET I.sif
Batch ID:
Results Data Set: PE081229
Results Library: C:\pe\Administrator\Results\Results.mdb

Method Loaded
Method Name: ARIIEC6AN.55
Method Last Saved: 12/29/2008 12:20:47 PM
IEC File: IEC38MIN.iec
MSF File:
Method Description: 12Axial Elements

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Al 308.215	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
B 249.677	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Be 313.042	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cd 228.802	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Cr 267.716	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Fe 273.955	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Mg 279.077	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Na 330.237	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ni 231.604	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Si 288.158	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Ti 334.903	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Zn 206.200	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
ScA 357.253	Lin, Calc Int	Peak Area	Axial	n/a	n/a
ScR 361.383	Lin, Calc Int	Peak Area	Radial	n/a	n/a

Sequence No.: 1
Autosampler Location: 1
Sample ID: Calib Blank 1
Date Collected: 12/29/2008 1:03:10 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	137.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1906048.9	19674.12	1.03%	100.0	%
ScR 361.383	130138.3	216.08	0.17%	100.0	%
Ag 328.068†	3800.3	62.87	1.65%	[0.00]	mg/L
Al 308.215†	-365.9	30.18	8.25%	[0.00]	mg/L
As 188.979†	118.6	5.09	4.30%	[0.00]	mg/L
B 249.677†	-23.7	1.67	7.07%	[0.00]	mg/L
Ba 233.527†	77.2	4.90	6.35%	[0.00]	mg/L
Be 313.042†	-56.8	21.31	37.54%	[0.00]	mg/L
Ca 317.933†	247.1	7.80	3.16%	[0.00]	mg/L
Cd 228.802†	239.3	3.26	1.36%	[0.00]	mg/L
Co 228.616†	-5.0	6.60	131.61%	[0.00]	mg/L
Cr 267.716†	17.2	2.49	14.51%	[0.00]	mg/L
Cu 324.752†	1587.4	61.60	3.88%	[0.00]	mg/L
Fe 273.955†	-135.0	3.98	2.95%	[0.00]	mg/L
K 766.490†	2860.5	125.73	4.40%	[0.00]	mg/L
Mg 279.077†	-361.0	21.41	5.93%	[0.00]	mg/L
Mn 257.610†	-158.4	2.13	1.34%	[0.00]	mg/L
Mo 202.031†	-59.6	5.74	9.64%	[0.00]	mg/L
Na 589.592†	-738.3	34.78	4.71%	[0.00]	mg/L
Na 330.237†	184.0	10.56	5.74%	[0.00]	mg/L
Ni 231.604†	19.1	4.00	20.90%	[0.00]	mg/L
Pb 220.353†	128.7	3.45	2.68%	[0.00]	mg/L
Sb 206.836†	-35.8	6.28	17.52%	[0.00]	mg/L
Se 196.026†	-71.2	2.77	3.88%	[0.00]	mg/L
Si 288.158†	-68.9	25.33	36.77%	[0.00]	mg/L
Sn 189.927†	19.5	1.79	9.17%	[0.00]	mg/L
Sr 421.552†	-50.2	8.16	16.27%	[0.00]	mg/L
Ti 334.903†	-168.2	29.08	17.29%	[0.00]	mg/L
Tl 190.801†	-77.8	4.44	5.71%	[0.00]	mg/L
V 292.402†	-486.2	16.69	3.43%	[0.00]	mg/L
Zn 206.200†	-29.1	0.96	3.29%	[0.00]	mg/L

Sequence No.: 2
Sample ID: STD2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 12/29/2008 1:09:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	137.0 kPa	0.55 L/min

Mean Data: STD2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1893021.2	6698.88	0.35%	99.32	%
ScR 361.383	128384.2	847.31	0.66%	98.65	%
Ba 233.527†	55828.9	401.56	0.72%	[10]	mg/L
Cd 228.802†	353408.5	547.66	0.15%	[10]	mg/L
Co 228.616†	429184.4	421.80	0.10%	[10]	mg/L
Cr 267.716†	29678.4	138.64	0.47%	[10]	mg/L
Cu 324.752†	2047290.9	3216.32	0.16%	[10]	mg/L
Mn 257.610†	253292.7	1448.77	0.57%	[10]	mg/L
V 292.402†	1121582.1	4474.90	0.40%	[10]	mg/L

Sequence No.: 3
Sample ID: STD3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/29/2008 1:14:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	137.0 kPa	0.55 L/min

Mean Data: STD3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1902873.3	23067.99	1.21%	99.83	%
ScR 361.383	134230.8	603.46	0.45%	103.1	%
Ag 328.068†	138940.9	1526.24	1.10%	[1.0]	mg/L
As 188.979†	8499.4	97.42	1.15%	[10]	mg/L
B 249.677†	12375.8	117.75	0.95%	[10]	mg/L
Be 313.042†	927972.3	2373.89	0.26%	[5.0]	mg/L
Na 589.592†	101505.5	346.79	0.34%	[50]	mg/L
Ni 231.604†	7386.8	36.93	0.50%	[10]	mg/L
Pb 220.353†	60530.0	695.09	1.15%	[10]	mg/L
Se 196.026†	7230.5	91.98	1.27%	[10]	mg/L
Sr 421.552†	1253006.6	3094.72	0.25%	[5]	mg/L
Tl 190.801†	14728.1	225.42	1.53%	[10]	mg/L
Zn 206.200†	6904.8	57.01	0.83%	[10]	mg/L

Sequence No.: 4
Sample ID: STD4
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 12/29/2008 1:19:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD4

Analyte	Back Pressure	Flow
All	137.0 kPa	0.55 L/min

Mean Data: STD4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1927115.9	15203.50	0.79%	101.1	%
ScR 361.383	132481.7	876.96	0.66%	101.8	%
Mo 202.031†	46757.6	621.11	1.33%	[10]	mg/L
Sb 206.836†	13662.4	162.95	1.19%	[10]	mg/L
Si 288.158†	15246.6	42.80	0.28%	[10]	mg/L
Sn 189.927†	23298.3	278.41	1.19%	[10]	mg/L
Ti 334.903†	171043.3	1720.46	1.01%	[10]	mg/L

Sequence No.: 5
Sample ID: STD5
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 12/29/2008 1:24:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	137.0 kPa	0.55 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1879665.0	1332.41	0.07%	98.62	%
ScR 361.383	132520.9	671.36	0.51%	101.8	%
Al 308.215†	43704.5	179.20	0.41%	[30]	mg/L
Ca 317.933†	211846.9	1399.24	0.66%	[30]	mg/L
Fe 273.955†	112631.9	252.44	0.22%	[100]	mg/L
K 766.490†	72824.2	182.92	0.25%	[100]	mg/L
Mg 279.077†	28659.2	124.74	0.44%	[30]	mg/L
Na 330.237†	1873.1	17.57	0.94%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	138900	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1457	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	849.9	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	1238	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	5583	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	185600	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	7062	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	35340	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	42920	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	2968	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	204700	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	1126	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	728.2	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	955.3	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	25330	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	4676	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	2030	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	18.73	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	738.7	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	6053	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	1366	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	723.0	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1525	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	2330	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	250600	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	17100	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	1473	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	112200	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	690.5	0.00000	1.000000	

Analysis Begun

Start Time: 12/29/2008 1:51:35 PM
Plasma On Time: 12/29/2008 12:16:42 PM
Logged In Analyst: metals
Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0060101
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISET I.sif
Batch ID:
Results Data Set: PE081229
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 13
Autosampler Location:
Sample ID: Calib Blank 1
Date Collected: 12/29/2008 1:51:35 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	137.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1965445.1	13931.72	0.71%	103.1	%
ScR 361.383	132673.3	807.25	0.61%	101.9	%
Ag 328.068†	3641.9	33.44	0.92%	[0.00]	mg/L
Al 308.215†	-320.6	30.13	9.40%	[0.00]	mg/L
As 188.979†	112.8	3.35	2.96%	[0.00]	mg/L
B 249.677†	-19.2	1.78	9.30%	[0.00]	mg/L
Ba 233.527†	76.3	4.78	6.27%	[0.00]	mg/L
Be 313.042†	-40.1	3.07	7.66%	[0.00]	mg/L
Ca 317.933†	279.5	18.82	6.73%	[0.00]	mg/L
Cd 228.802†	240.2	4.31	1.79%	[0.00]	mg/L
Co 228.616†	-6.7	6.44	96.27%	[0.00]	mg/L
Cr 267.716†	18.4	1.97	10.70%	[0.00]	mg/L
Cu 324.752†	1590.8	43.91	2.76%	[0.00]	mg/L
Fe 273.955†	-129.8	3.67	2.83%	[0.00]	mg/L
K 766.490†	2919.6	51.88	1.78%	[0.00]	mg/L
Mg 279.077†	-364.4	10.54	2.89%	[0.00]	mg/L
Mn 257.610†	-143.3	0.93	0.65%	[0.00]	mg/L
Mo 202.031†	-56.5	2.91	5.15%	[0.00]	mg/L
Na 589.592†	-688.0	47.17	6.86%	[0.00]	mg/L
Na 330.237†	162.3	16.45	10.13%	[0.00]	mg/L
Ni 231.604†	16.9	1.63	9.69%	[0.00]	mg/L
Pb 220.353†	122.8	0.74	0.61%	[0.00]	mg/L
Sb 206.836†	-31.5	7.63	24.24%	[0.00]	mg/L
Se 196.026†	-65.2	2.40	3.68%	[0.00]	mg/L
Si 288.158†	-59.1	20.86	35.31%	[0.00]	mg/L
Sn 189.927†	19.6	3.36	17.16%	[0.00]	mg/L
Sr 421.552†	-38.8	32.67	84.10%	[0.00]	mg/L
Ti 334.903†	-177.3	21.81	12.31%	[0.00]	mg/L
Tl 190.801†	-73.9	4.81	6.50%	[0.00]	mg/L
V 292.402†	-472.7	32.26	6.83%	[0.00]	mg/L
Zn 206.200†	-26.9	2.75	10.22%	[0.00]	mg/L

Analysis Begun

Start Time: 12/29/2008 1:56:51 PM
Logged In Analyst: metals
Spectrometer Model: Optima 4300 DV, S/N 077N0060101
Plasma On Time: 12/29/2008 12:16:42 PM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISET I.sif
Batch ID:
Results Data Set: PE081229
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: CV
Analyst:
Initial Sample Wt:
Dilution: 1X
Autosampler Location: 7
Date Collected: 12/29/2008 1:56:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	137.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1906933.1	100.0	%	0.31				0.31%
ScR 361.383	134074.4	103.0	%	0.24				0.23%
Ag 328.068†	153173.6	1.103	mg/L	0.0035	1.103	mg/L	0.0035	0.31%
Al 308.215†	3089.9	2.082	mg/L	0.0068	2.082	mg/L	0.0068	0.33%
As 188.979†	1821.8	2.131	mg/L	0.0200	2.131	mg/L	0.0200	0.94%
B 249.677†	1266.8	1.022	mg/L	0.0029	1.022	mg/L	0.0029	0.28%
Ba 233.527†	5398.1	0.9664	mg/L	0.00366	0.9664	mg/L	0.00366	0.38%
Be 313.042†	192565.9	1.035	mg/L	0.0063	1.035	mg/L	0.0063	0.61%
Ca 317.933†	15240.7	2.157	mg/L	0.0153	2.157	mg/L	0.0153	0.71%
Cd 228.802†	35842.3	1.006	mg/L	0.0050	1.006	mg/L	0.0050	0.50%
Co 228.616†	43036.2	1.001	mg/L	0.0049	1.001	mg/L	0.0049	0.49%
Cr 267.716†	2897.0	0.9757	mg/L	0.00139	0.9757	mg/L	0.00139	0.14%
Cu 324.752†	213417.8	1.042	mg/L	0.0040	1.042	mg/L	0.0040	0.39%
Fe 273.955†	2416.1	2.143	mg/L	0.0076	2.143	mg/L	0.0076	0.36%
K 766.490†	15122.4	20.77	mg/L	0.123	20.77	mg/L	0.123	0.59%
Mg 279.077†	2044.3	2.146	mg/L	0.0041	2.146	mg/L	0.0041	0.19%
Mn 257.610†	24850.2	0.9821	mg/L	0.00469	0.9821	mg/L	0.00469	0.48%
Mo 202.031†	4963.3	1.062	mg/L	0.0055	1.062	mg/L	0.0055	0.52%
Na 589.592†	102573.2	50.53	mg/L	0.448	50.53	mg/L	0.448	0.89%
Na 330.237†	1028.8	54.72	mg/L	0.512	54.72	mg/L	0.512	0.94%
Ni 231.604†	764.6	1.035	mg/L	0.0020	1.035	mg/L	0.0020	0.19%
Pb 220.353†	12598.9	2.083	mg/L	0.0079	2.083	mg/L	0.0079	0.38%
Sb 206.836†	3044.5	2.227	mg/L	0.0070	2.227	mg/L	0.0070	0.31%
Se 196.026†	1514.2	2.095	mg/L	0.0016	2.095	mg/L	0.0016	0.08%
Si 288.158†	3332.7	2.189	mg/L	0.0081	2.189	mg/L	0.0081	0.37%
Sn 189.927†	2267.2	0.9743	mg/L	0.00224	0.9743	mg/L	0.00224	0.23%
Sr 421.552†	270768.5	1.080	mg/L	0.0071	1.080	mg/L	0.0071	0.66%
Ti 334.903†	18012.2	1.052	mg/L	0.0018	1.052	mg/L	0.0018	0.17%
Tl 190.801†	3110.0	2.095	mg/L	0.0063	2.095	mg/L	0.0063	0.30%
V 292.402†	112609.0	1.018	mg/L	0.0038	1.018	mg/L	0.0038	0.37%
Zn 206.200†	734.9	1.064	mg/L	0.0044	1.064	mg/L	0.0044	0.42%

Sequence No: 2
Sample ID: CB
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 12/29/2008 2:04:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	137.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1958380.9	102.7	%	0.44				0.43%
ScR 361.383	134527.0	103.4	%	0.40				0.39%
Ag 328.068†	100.1	0.00072	mg/L	0.000329	0.00072	mg/L	0.000329	45.69%
Al 308.215†	-4.6	-0.00315	mg/L	0.009040	-0.00315	mg/L	0.009040	286.96%
As 188.979†	7.8	0.00914	mg/L	0.003251	0.00914	mg/L	0.003251	35.59%
B 249.677†	6.3	0.00511	mg/L	0.001368	0.00511	mg/L	0.001368	26.78%
Ba 233.527†	5.7	0.00102	mg/L	0.002055	0.00102	mg/L	0.002055	202.23%
Be 313.042†	100.3	0.00054	mg/L	0.000059	0.00054	mg/L	0.000059	10.88%
Ca 317.933†	-70.7	-0.01001	mg/L	0.001855	-0.01001	mg/L	0.001855	18.53%
Cd 228.802†	11.7	0.00030	mg/L	0.000071	0.00030	mg/L	0.000071	23.78%
Co 228.616†	17.8	0.00041	mg/L	0.000100	0.00041	mg/L	0.000100	24.26%
Cr 267.716†	2.4	0.00082	mg/L	0.000751	0.00082	mg/L	0.000751	91.10%
Cu 324.752†	18.7	0.00009	mg/L	0.000131	0.00009	mg/L	0.000131	143.15%
Fe 273.955†	7.0	0.00618	mg/L	0.001936	0.00618	mg/L	0.001936	31.32%
K 766.490†	7.2	0.00994	mg/L	0.036173	0.00994	mg/L	0.036173	363.97%
Mg 279.077†	11.3	0.01183	mg/L	0.004976	0.01183	mg/L	0.004976	42.07%
Mn 257.610†	22.0	0.00087	mg/L	0.000174	0.00087	mg/L	0.000174	19.95%
Mo 202.031†	3.5	0.00074	mg/L	0.000848	0.00074	mg/L	0.000848	114.33%
Na 589.592†	113.5	0.05589	mg/L	0.003389	0.05589	mg/L	0.003389	6.06%
Na 330.237†	-1.7	-0.09072	mg/L	0.700191	-0.09072	mg/L	0.700191	771.82%
Ni 231.604†	0.7	0.00092	mg/L	0.002365	0.00092	mg/L	0.002365	257.89%
Pb 220.353†	13.0	0.00214	mg/L	0.001043	0.00214	mg/L	0.001043	48.62%
Sb 206.836†	-4.0	-0.00291	mg/L	0.000896	-0.00291	mg/L	0.000896	30.83%
Se 196.026†	5.9	0.00821	mg/L	0.002276	0.00821	mg/L	0.002276	27.71%
Si 288.158†	-5.8	-0.00379	mg/L	0.011229	-0.00379	mg/L	0.011229	296.45%
Sn 189.927†	6.0	0.00259	mg/L	0.000391	0.00259	mg/L	0.000391	15.08%
Sr 421.552†	100.5	0.00040	mg/L	0.000084	0.00040	mg/L	0.000084	20.94%
Ti 334.903†	22.9	0.00134	mg/L	0.000860	0.00134	mg/L	0.000860	64.37%
Tl 190.801†	4.3	0.00290	mg/L	0.000396	0.00290	mg/L	0.000396	13.67%
V 292.402†	47.7	0.00044	mg/L	0.000374	0.00044	mg/L	0.000374	85.98%
Zn 206.200†	1.0	0.00150	mg/L	0.001618	0.00150	mg/L	0.001618	108.00%

Analysis Begun

Start Time: 12/29/2008 2:10:09 PM
Plasma On Time: 12/29/2008 12:16:42 PM
Logged In Analyst: metals
Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0060101
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISET I.sif
Batch ID:
Results Data Set: PE081229
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Autosampler Location: 1
Sample ID: Calib Blank 1
Date Collected: 12/29/2008 2:10:09 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	137.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1951948.5	9427.04	0.48%	100.0	%
ScR 361.383	132393.9	564.63	0.43%	100.0	%
Ag 328.068†	3794.2	86.79	2.29%	[0.00]	mg/L
Al 308.215†	-357.2	4.41	1.24%	[0.00]	mg/L
As 188.979†	122.5	4.28	3.49%	[0.00]	mg/L
B 249.677†	-18.7	4.39	23.56%	[0.00]	mg/L
Ba 233.527†	77.0	3.67	4.77%	[0.00]	mg/L
Be 313.042†	-17.2	5.46	31.79%	[0.00]	mg/L
Ca 317.933†	222.0	28.82	12.98%	[0.00]	mg/L
Cd 228.802†	250.3	6.13	2.45%	[0.00]	mg/L
Co 228.616†	-8.2	2.99	36.59%	[0.00]	mg/L
Cr 267.716†	23.3	7.98	34.23%	[0.00]	mg/L
Cu 324.752†	1624.9	34.92	2.15%	[0.00]	mg/L
Fe 273.955†	-129.4	2.88	2.22%	[0.00]	mg/L
K 766.490†	3002.7	24.91	0.83%	[0.00]	mg/L
Mg 279.077†	-389.7	19.14	4.91%	[0.00]	mg/L
Mn 257.610†	-144.2	6.64	4.60%	[0.00]	mg/L
Mo 202.031†	-55.2	2.55	4.62%	[0.00]	mg/L
Na 589.592†	-670.6	27.01	4.03%	[0.00]	mg/L
Na 330.237†	176.3	10.94	6.21%	[0.00]	mg/L
Ni 231.604†	18.4	2.27	12.33%	[0.00]	mg/L
Pb 220.353†	127.6	4.36	3.41%	[0.00]	mg/L
Sb 206.836†	-31.4	1.07	3.39%	[0.00]	mg/L
Se 196.026†	-66.4	2.32	3.50%	[0.00]	mg/L
Si 288.158†	-72.8	18.10	24.87%	[0.00]	mg/L
Sn 189.927†	23.3	1.84	7.89%	[0.00]	mg/L
Sr 421.552†	-34.6	32.90	95.20%	[0.00]	mg/L
Ti 334.903†	-163.2	14.40	8.82%	[0.00]	mg/L
Tl 190.801†	-72.5	2.20	3.03%	[0.00]	mg/L
V 292.402†	-495.2	22.49	4.54%	[0.00]	mg/L
Zn 206.200†	-27.5	2.16	7.85%	[0.00]	mg/L

Sequence No.: 2
Sample ID: STD2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 12/29/2008 2:16:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	138.0 kPa	0.55 L/min

Mean Data: STD2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1962832.6	8814.83	0.45%	100.6	%
ScR 361.383	136059.8	452.23	0.33%	102.8	%
Ba 233.527†	53771.0	125.08	0.23%	[10]	mg/L
Cd 228.802†	341647.1	3479.65	1.02%	[10]	mg/L
Co 228.616†	424676.8	2607.49	0.61%	[10]	mg/L
Cr 267.716†	29090.4	11.99	0.04%	[10]	mg/L
Cu 324.752†	2041316.8	11734.96	0.57%	[10]	mg/L
Mn 257.610†	247783.0	324.36	0.13%	[10]	mg/L
V 292.402†	1110308.6	6520.65	0.59%	[10]	mg/L

Sequence No.: 3
Sample ID: STD3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/29/2008 2:21:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	137.0 kPa	0.55 L/min

Mean Data: STD3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1943378.6	12034.42	0.62%	99.56	%
ScR 361.383	136570.0	940.91	0.69%	103.2	%
Ag 328.068†	141849.5	930.59	0.66%	[1.0]	mg/L
As 188.979†	8502.5	60.50	0.71%	[10]	mg/L
B 249.677†	12730.0	50.93	0.40%	[10]	mg/L
Be 313.042†	946753.9	3349.34	0.35%	[5.0]	mg/L
Na 589.592†	100632.4	705.91	0.70%	[50]	mg/L
Ni 231.604†	7548.8	31.52	0.42%	[10]	mg/L
Pb 220.353†	61491.5	265.96	0.43%	[10]	mg/L
Se 196.026†	7222.8	55.43	0.77%	[10]	mg/L
Sr 421.552†	1248183.2	8260.14	0.66%	[5]	mg/L
Tl 190.801†	14927.7	111.33	0.75%	[10]	mg/L
Zn 206.200†	7049.7	24.42	0.35%	[10]	mg/L

Sequence No.: 4
Sample ID: STD4
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 12/29/2008 2:26:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD4

Analyte	Back Pressure	Flow
All	138.0 kPa	0.55 L/min

Mean Data: STD4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1949191.7	27518.57	1.41%	99.86	%
ScR 361.383	134382.3	769.85	0.57%	101.5	%
Mo 202.031†	48511.1	949.47	1.96%	[10]	mg/L
Sb 206.836†	14103.5	305.76	2.17%	[10]	mg/L
Si 288.158†	15481.7	72.86	0.47%	[10]	mg/L
Sn 189.927†	24035.7	514.09	2.14%	[10]	mg/L
Ti 334.903†	174188.7	1350.59	0.78%	[10]	mg/L

Sequence No.: 5
Sample ID: STD5
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 12/29/2008 2:31:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	138.0 kPa	0.55 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1906438.0	3998.40	0.21%	97.67	%
ScR 361.383	135148.3	606.23	0.45%	102.1	%
Al 308.215†	43610.5	214.10	0.49%	[30]	mg/L
Ca 317.933†	215962.3	1772.28	0.82%	[30]	mg/L
Fe 273.955†	113232.0	792.13	0.70%	[100]	mg/L
K 766.490†	72672.7	648.49	0.89%	[100]	mg/L
Mg 279.077†	28762.8	138.54	0.48%	[30]	mg/L
Na 330.237†	1868.7	17.20	0.92%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	141800	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1454	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	850.2	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	1273	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	5377	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	189400	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	7199	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	34160	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	42470	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	2909	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	204100	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	1132	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	726.7	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	958.8	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	24780	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	4851	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	2013	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	18.69	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	754.9	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	6149	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	1410	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	722.3	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1548	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	2404	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	249600	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	17420	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	1493	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	111000	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	705.0	0.00000	1.000000	

Analysis Begun

Start Time: 12/29/2008 2:50:13 PM
Plasma On Time: 12/29/2008 12:16:42 PM
Logged In Analyst: metals
Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0060101
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISET I.sif
Batch ID:
Results Data Set: PE081229
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution: 1X
Autosampler Location: 7
Date Collected: 12/29/2008 2:50:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	138.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1942209.9	99.50	%	0.667				0.67%
ScR 361.383	136798.9	103.3	%	1.51				1.46%
Ag 328.068†	154533.6	1.090	mg/L	0.0094	1.090	mg/L	0.0094	0.87%
Al 308.215†	3119.0	2.107	mg/L	0.0280	2.107	mg/L	0.0280	1.33%
As 188.979†	1792.5	2.096	mg/L	0.0192	2.096	mg/L	0.0192	0.92%
B 249.677†	1270.5	0.9959	mg/L	0.01340	0.9959	mg/L	0.01340	1.35%
Ba 233.527†	5336.4	0.9919	mg/L	0.01655	0.9919	mg/L	0.01655	1.67%
Be 313.042†	192236.6	1.013	mg/L	0.0105	1.013	mg/L	0.0105	1.04%
Ca 317.933†	15337.2	2.129	mg/L	0.0250	2.129	mg/L	0.0250	1.17%
Cd 228.802†	35420.4	1.029	mg/L	0.0088	1.029	mg/L	0.0088	0.85%
Co 228.616†	43092.3	1.013	mg/L	0.0117	1.013	mg/L	0.0117	1.16%
Cr 267.716†	2884.6	0.9911	mg/L	0.01898	0.9911	mg/L	0.01898	1.92%
Cu 324.752†	214590.7	1.051	mg/L	0.0092	1.051	mg/L	0.0092	0.87%
Fe 273.955†	2378.0	2.098	mg/L	0.0287	2.098	mg/L	0.0287	1.37%
K 766.490†	15077.2	20.75	mg/L	0.247	20.75	mg/L	0.247	1.19%
Mg 279.077†	2063.6	2.158	mg/L	0.0355	2.158	mg/L	0.0355	1.64%
Mn 257.610†	24790.8	1.001	mg/L	0.0057	1.001	mg/L	0.0057	0.57%
Mo 202.031†	4952.2	1.021	mg/L	0.0096	1.021	mg/L	0.0096	0.94%
Na 589.592†	102045.0	50.70	mg/L	0.490	50.70	mg/L	0.490	0.97%
Na 330.237†	1008.7	53.78	mg/L	0.835	53.78	mg/L	0.835	1.55%
Ni 231.604†	761.5	1.009	mg/L	0.0182	1.009	mg/L	0.0182	1.80%
Pb 220.353†	12683.1	2.064	mg/L	0.0224	2.064	mg/L	0.0224	1.08%
Sb 206.836†	3043.0	2.155	mg/L	0.0205	2.155	mg/L	0.0205	0.95%
Se 196.026†	1503.0	2.082	mg/L	0.0116	2.082	mg/L	0.0116	0.56%
Si 288.158†	3326.4	2.152	mg/L	0.0377	2.152	mg/L	0.0377	1.75%
Sn 189.927†	2254.0	0.9390	mg/L	0.01000	0.9390	mg/L	0.01000	1.07%
Sr 421.552†	268329.3	1.075	mg/L	0.0104	1.075	mg/L	0.0104	0.97%
Ti 334.903†	17892.5	1.026	mg/L	0.0103	1.026	mg/L	0.0103	1.00%
Tl 190.801†	3113.6	2.069	mg/L	0.0168	2.069	mg/L	0.0168	0.81%
V 292.402†	112934.4	1.031	mg/L	0.0090	1.031	mg/L	0.0090	0.87%
Zn 206.200†	728.1	1.032	mg/L	0.0159	1.032	mg/L	0.0159	1.54%

Sequence No.: 2
Sample ID: CB
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 12/29/2008 2:57:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	138.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1959800.9	100.4	%	0.26				0.25%
ScR 361.383	138128.8	104.3	%	0.72				0.69%
Ag 328.068†	94.3	0.00066	mg/L	0.000499	0.00066	mg/L	0.000499	75.05%
Al 308.215†	30.0	0.02061	mg/L	0.015256	0.02061	mg/L	0.015256	74.04%
As 188.979†	-0.3	-0.00036	mg/L	0.001261	-0.00036	mg/L	0.001261	347.24%
B 249.677†	5.3	0.00416	mg/L	0.001592	0.00416	mg/L	0.001592	38.26%
Ba 233.527†	-1.5	-0.00027	mg/L	0.000991	-0.00027	mg/L	0.000991	364.61%
Be 313.042†	28.0	0.00015	mg/L	0.000167	0.00015	mg/L	0.000167	113.76%
Ca 317.933†	-6.8	-0.00094	mg/L	0.002219	-0.00094	mg/L	0.002219	237.27%
Cd 228.802†	8.4	0.00025	mg/L	0.000093	0.00025	mg/L	0.000093	37.57%
Co 228.616†	9.7	0.00023	mg/L	0.000022	0.00023	mg/L	0.000022	9.50%
Cr 267.716†	-8.0	-0.00273	mg/L	0.002316	-0.00273	mg/L	0.002316	84.69%
Cu 324.752†	62.2	0.00030	mg/L	0.000067	0.00030	mg/L	0.000067	21.99%
Fe 273.955†	2.0	0.00178	mg/L	0.001926	0.00178	mg/L	0.001926	108.44%
K 766.490†	-62.4	-0.08590	mg/L	0.035283	-0.08590	mg/L	0.035283	41.07%
Mg 279.077†	6.0	0.00624	mg/L	0.008603	0.00624	mg/L	0.008603	137.78%
Mn 257.610†	12.3	0.00050	mg/L	0.000109	0.00050	mg/L	0.000109	22.02%
Mo 202.031†	1.3	0.00026	mg/L	0.000773	0.00026	mg/L	0.000773	298.98%
Na 589.592†	84.1	0.04177	mg/L	0.018637	0.04177	mg/L	0.018637	44.62%
Na 330.237†	-5.8	-0.3092	mg/L	0.10220	-0.3092	mg/L	0.10220	33.05%
Ni 231.604†	-0.2	-0.00022	mg/L	0.004097	-0.00022	mg/L	0.004097	>999.9%
Pb 220.353†	3.3	0.00055	mg/L	0.001279	0.00055	mg/L	0.001279	234.12%
Sb 206.836†	-4.9	-0.00345	mg/L	0.003773	-0.00345	mg/L	0.003773	109.38%
Se 196.026†	8.5	0.01176	mg/L	0.001111	0.01176	mg/L	0.001111	9.45%
Si 288.158†	1.5	0.00098	mg/L	0.006613	0.00098	mg/L	0.006613	672.97%
Sn 189.927†	5.5	0.00228	mg/L	0.001114	0.00228	mg/L	0.001114	48.85%
Sr 421.552†	67.0	0.00027	mg/L	0.000177	0.00027	mg/L	0.000177	65.88%
Ti 334.903†	-1.1	-0.00006	mg/L	0.000440	-0.00006	mg/L	0.000440	714.76%
Tl 190.801†	6.5	0.00437	mg/L	0.002564	0.00437	mg/L	0.002564	58.60%
V 292.402†	42.1	0.00036	mg/L	0.000157	0.00036	mg/L	0.000157	43.19%
Zn 206.200†	1.9	0.00263	mg/L	0.002200	0.00263	mg/L	0.002200	83.51%

Sequence No.: 3
Sample ID: CRI
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 21
Date Collected: 12/29/2008 3:04:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	138.0 kPa	0.55 L/min

Mean Data: CRI

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1984804.6	101.7	%	0.59				0.58%
ScR 361.383	134699.6	101.7	%	0.73				0.71%
Ag 328.068†	423.8	0.00299	mg/L	0.000273	0.00299	mg/L	0.000273	9.12%
Al 308.215†	90.4	0.06203	mg/L	0.007730	0.06203	mg/L	0.007730	12.46%
As 188.979†	38.3	0.04498	mg/L	0.002507	0.04498	mg/L	0.002507	5.57%
B 249.677†	22.8	0.01792	mg/L	0.001347	0.01792	mg/L	0.001347	7.51%
Ba 233.527†	16.3	0.00302	mg/L	0.001203	0.00302	mg/L	0.001203	39.85%
Be 313.042†	181.4	0.00095	mg/L	0.000062	0.00095	mg/L	0.000062	6.56%
Ca 317.933†	353.9	0.04915	mg/L	0.005333	0.04915	mg/L	0.005333	10.85%
Cd 228.802†	72.2	0.00194	mg/L	0.000014	0.00194	mg/L	0.000014	0.72%
Co 228.616†	127.3	0.00299	mg/L	0.000064	0.00299	mg/L	0.000064	2.13%
Cr 267.716†	9.6	0.00330	mg/L	0.002812	0.00330	mg/L	0.002812	85.25%
Cu 324.752†	396.8	0.00195	mg/L	0.000137	0.00195	mg/L	0.000137	7.06%
Fe 273.955†	57.0	0.05033	mg/L	0.002577	0.05033	mg/L	0.002577	5.12%
K 766.490†	375.1	0.5162	mg/L	0.05510	0.5162	mg/L	0.05510	10.68%
Mg 279.077†	62.5	0.06516	mg/L	0.009882	0.06516	mg/L	0.009882	15.16%
Mn 257.610†	23.7	0.00097	mg/L	0.000169	0.00097	mg/L	0.000169	17.47%
Mo 202.031†	22.6	0.00466	mg/L	0.000506	0.00466	mg/L	0.000506	10.86%
Na 589.592†	1101.8	0.5475	mg/L	0.01836	0.5475	mg/L	0.01836	3.35%
Na 330.237†	9.6	0.5084	mg/L	0.70480	0.5084	mg/L	0.70480	138.64%
Ni 231.604†	4.4	0.00585	mg/L	0.004168	0.00585	mg/L	0.004168	71.23%
Pb 220.353†	129.4	0.02107	mg/L	0.001037	0.02107	mg/L	0.001037	4.92%
Sb 206.836†	72.3	0.05129	mg/L	0.002849	0.05129	mg/L	0.002849	5.55%
Se 196.026†	43.1	0.05974	mg/L	0.005277	0.05974	mg/L	0.005277	8.83%
Si 288.158†	87.1	0.05628	mg/L	0.003687	0.05628	mg/L	0.003687	6.55%
Sn 189.927†	18.7	0.00781	mg/L	0.000811	0.00781	mg/L	0.000811	10.38%
Sr 421.552†	265.0	0.00106	mg/L	0.000132	0.00106	mg/L	0.000132	12.48%
Ti 334.903†	101.6	0.00583	mg/L	0.000936	0.00583	mg/L	0.000936	16.05%
Tl 190.801†	78.0	0.05220	mg/L	0.000528	0.05220	mg/L	0.000528	1.01%
V 292.402†	356.0	0.00326	mg/L	0.000218	0.00326	mg/L	0.000218	6.68%
Zn 206.200†	7.1	0.01003	mg/L	0.004770	0.01003	mg/L	0.004770	47.56%

Sequence No.: 4
Sample ID: ICSA
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 22
Date Collected: 12/29/2008 3:10:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	138.0 kPa	0.55 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1868953.4	95.75	%	0.412				0.43%
ScR 361.383	136525.2	103.1	%	1.45				1.41%
Ag 328.068†	-940.7	0.00209	mg/L	0.000148	0.00209	mg/L	0.000148	7.07%
Al 308.215†	292687.5	201.3	mg/L	2.54	201.3	mg/L	2.54	1.26%
As 188.979†	97.8	0.02458	mg/L	0.006155	0.02458	mg/L	0.006155	25.04%
B 249.677†	-46.1	-0.00048	mg/L	0.008957	-0.00048	mg/L	0.008957	>999.9%
Ba 233.527†	57.3	0.00004	mg/L	0.000681	0.00004	mg/L	0.000681	>999.9%
Be 313.042†	-8.6	-0.00008	mg/L	0.000099	-0.00008	mg/L	0.000099	123.89%
Ca 317.933†	722570.4	100.4	mg/L	1.50	100.4	mg/L	1.50	1.50%
Cd 228.802†	44.0	0.00084	mg/L	0.000252	0.00084	mg/L	0.000252	29.86%
Co 228.616†	24.9	0.00057	mg/L	0.000156	0.00057	mg/L	0.000156	27.18%
Cr 267.716†	0.8	0.00142	mg/L	0.002881	0.00142	mg/L	0.002881	202.28%
Cu 324.752†	-3052.7	0.00278	mg/L	0.000192	0.00278	mg/L	0.000192	6.89%
Fe 273.955†	227913.6	201.3	mg/L	2.26	201.3	mg/L	2.26	1.12%
K 766.490†	-48.8	-0.06719	mg/L	0.075312	-0.06719	mg/L	0.075312	112.08%
Mg 279.077†	99626.7	103.8	mg/L	1.49	103.8	mg/L	1.49	1.44%
Mn 257.610†	47.5	-0.00097	mg/L	0.000283	-0.00097	mg/L	0.000283	29.13%
Mo 202.031†	36.9	0.00237	mg/L	0.001184	0.00237	mg/L	0.001184	50.06%
Na 589.592†	126.3	0.06276	mg/L	0.001749	0.06276	mg/L	0.001749	2.79%
Na 330.237†	22.3	1.202	mg/L	1.5731	1.202	mg/L	1.5731	130.90%
Ni 231.604†	6.1	-0.00404	mg/L	0.001433	-0.00404	mg/L	0.001433	35.50%
Pb 220.353†	-372.9	0.01157	mg/L	0.002330	0.01157	mg/L	0.002330	20.14%
Sb 206.836†	-20.6	-0.01447	mg/L	0.003944	-0.01447	mg/L	0.003944	27.26%
Se 196.026†	-97.9	-0.03138	mg/L	0.004630	-0.03138	mg/L	0.004630	14.75%
Si 288.158†	21.5	0.03208	mg/L	0.006376	0.03208	mg/L	0.006376	19.88%
Sn 189.927†	11.2	-0.00543	mg/L	0.000768	-0.00543	mg/L	0.000768	14.16%
Sr 421.552†	515.2	0.00206	mg/L	0.000112	0.00206	mg/L	0.000112	5.42%
Ti 334.903†	108.3	0.00621	mg/L	0.000838	0.00621	mg/L	0.000838	13.50%
Tl 190.801†	-43.0	-0.02889	mg/L	0.002690	-0.02889	mg/L	0.002690	9.31%
V 292.402†	1477.3	-0.00170	mg/L	0.000418	-0.00170	mg/L	0.000418	24.63%
Zn 206.200†	-17.5	-0.01564	mg/L	0.003981	-0.01564	mg/L	0.003981	25.45%

Sequence No.: 5
Sample ID: ICSAB
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 23
Date Collected: 12/29/2008 3:18:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	138.0 kPa	0.55 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1858682.6	95.22	%	0.467				0.49%
ScR 361.383	135632.7	102.4	%	0.29				0.29%
Ag 328.068†	157896.0	1.122	mg/L	0.0036	1.122	mg/L	0.0036	0.32%
Al 308.215†	296195.3	203.7	mg/L	0.28	203.7	mg/L	0.28	0.14%
As 188.979†	1010.3	1.092	mg/L	0.0030	1.092	mg/L	0.0030	0.27%
B 249.677†	-38.6	0.00217	mg/L	0.002108	0.00217	mg/L	0.002108	96.99%
Ba 233.527†	5319.2	0.9780	mg/L	0.00456	0.9780	mg/L	0.00456	0.47%
Be 313.042†	195018.0	1.027	mg/L	0.0037	1.027	mg/L	0.0037	0.36%
Ca 317.933†	731761.9	101.7	mg/L	0.26	101.7	mg/L	0.26	0.26%
Cd 228.802†	34267.9	0.9985	mg/L	0.00784	0.9985	mg/L	0.00784	0.78%
Co 228.616†	40094.7	0.9438	mg/L	0.00052	0.9438	mg/L	0.00052	0.06%
Cr 267.716†	2837.3	0.9762	mg/L	0.00473	0.9762	mg/L	0.00473	0.48%
Cu 324.752†	210879.7	1.051	mg/L	0.0028	1.051	mg/L	0.0028	0.27%
Fe 273.955†	230144.3	203.2	mg/L	0.49	203.2	mg/L	0.49	0.24%
K 766.490†	-39.5	-0.05438	mg/L	0.018436	-0.05438	mg/L	0.018436	33.91%
Mg 279.077†	100776.1	105.0	mg/L	0.19	105.0	mg/L	0.19	0.19%
Mn 257.610†	24379.3	0.9815	mg/L	0.00252	0.9815	mg/L	0.00252	0.26%
Mo 202.031†	47.1	0.00450	mg/L	0.000405	0.00450	mg/L	0.000405	9.00%
Na 589.592†	79.2	0.03933	mg/L	0.010253	0.03933	mg/L	0.010253	26.07%
Na 330.237†	17.3	0.5544	mg/L	0.16694	0.5544	mg/L	0.16694	30.11%
Ni 231.604†	729.5	0.9540	mg/L	0.00618	0.9540	mg/L	0.00618	0.65%
Pb 220.353†	5746.9	1.008	mg/L	0.0093	1.008	mg/L	0.0093	0.92%
Sb 206.836†	1499.8	1.053	mg/L	0.0119	1.053	mg/L	0.0119	1.13%
Se 196.026†	666.5	1.028	mg/L	0.0064	1.028	mg/L	0.0064	0.62%
Si 288.158†	29.1	0.03808	mg/L	0.002421	0.03808	mg/L	0.002421	6.36%
Sn 189.927†	2.3	-0.00876	mg/L	0.002566	-0.00876	mg/L	0.002566	29.30%
Sr 421.552†	488.0	0.00195	mg/L	0.000183	0.00195	mg/L	0.000183	9.34%
Ti 334.903†	104.7	0.00575	mg/L	0.001146	0.00575	mg/L	0.001146	19.94%
Tl 190.801†	1459.1	0.9648	mg/L	0.01190	0.9648	mg/L	0.01190	1.23%
V 292.402†	114257.9	1.020	mg/L	0.0038	1.020	mg/L	0.0038	0.37%
Zn 206.200†	660.6	0.9457	mg/L	0.00138	0.9457	mg/L	0.00138	0.15%

Sequence No.: 6
Sample ID: CV
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 12/29/2008 3:25:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	138.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1942748.5	99.53	%	0.676				0.68%
ScR 361.383	135614.8	102.4	%	0.85				0.83%
Ag 328.068†	151394.0	1.067	mg/L	0.0038	1.067	mg/L	0.0038	0.36%
Al 308.215†	3121.8	2.110	mg/L	0.0195	2.110	mg/L	0.0195	0.93%
As 188.979†	1766.8	2.066	mg/L	0.0142	2.066	mg/L	0.0142	0.69%
B 249.677†	1222.2	0.9581	mg/L	0.01113	0.9581	mg/L	0.01113	1.16%
Ba 233.527†	5192.2	0.9651	mg/L	0.01123	0.9651	mg/L	0.01123	1.16%
Be 313.042†	185888.8	0.9791	mg/L	0.00303	0.9791	mg/L	0.00303	0.31%
Ca 317.933†	15127.0	2.100	mg/L	0.0069	2.100	mg/L	0.0069	0.33%
Cd 228.802†	34233.5	0.9940	mg/L	0.00857	0.9940	mg/L	0.00857	0.86%
Co 228.616†	42357.4	0.9956	mg/L	0.00213	0.9956	mg/L	0.00213	0.21%
Cr 267.716†	2806.0	0.9641	mg/L	0.01114	0.9641	mg/L	0.01114	1.16%
Cu 324.752†	209011.1	1.024	mg/L	0.0025	1.024	mg/L	0.0025	0.24%
Fe 273.955†	2409.1	2.126	mg/L	0.0153	2.126	mg/L	0.0153	0.72%
K 766.490†	14356.8	19.76	mg/L	0.081	19.76	mg/L	0.081	0.41%
Mg 279.077†	2027.0	2.120	mg/L	0.0269	2.120	mg/L	0.0269	1.27%
Mn 257.610†	24185.2	0.9770	mg/L	0.00304	0.9770	mg/L	0.00304	0.31%
Mo 202.031†	4821.3	0.9939	mg/L	0.00362	0.9939	mg/L	0.00362	0.36%
Na 589.592†	97245.1	48.32	mg/L	0.056	48.32	mg/L	0.056	0.12%
Na 330.237†	977.0	52.08	mg/L	0.593	52.08	mg/L	0.593	1.14%
Ni 231.604†	739.6	0.9800	mg/L	0.01073	0.9800	mg/L	0.01073	1.10%
Pb 220.353†	12332.9	2.007	mg/L	0.0122	2.007	mg/L	0.0122	0.61%
Sb 206.836†	2957.8	2.095	mg/L	0.0129	2.095	mg/L	0.0129	0.61%
Se 196.026†	1477.5	2.046	mg/L	0.0274	2.046	mg/L	0.0274	1.34%
Si 288.158†	3230.5	2.090	mg/L	0.0232	2.090	mg/L	0.0232	1.11%
Sn 189.927†	2208.9	0.9201	mg/L	0.00629	0.9201	mg/L	0.00629	0.68%
Sr 421.552†	257316.3	1.031	mg/L	0.0018	1.031	mg/L	0.0018	0.17%
Ti 334.903†	17222.3	0.9875	mg/L	0.00285	0.9875	mg/L	0.00285	0.29%
Tl 190.801†	3057.7	2.032	mg/L	0.0078	2.032	mg/L	0.0078	0.38%
V 292.402†	110108.6	1.005	mg/L	0.0033	1.005	mg/L	0.0033	0.33%
Zn 206.200†	711.7	1.009	mg/L	0.0125	1.009	mg/L	0.0125	1.24%

Sequence No.: 7
Sample ID: CB
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 12/29/2008 3:33:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	138.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1962493.2	100.5	%	0.21				0.21%
ScR 361.383	139318.4	105.2	%	0.59				0.56%
Ag 328.068†	186.1	0.00131	mg/L	0.000272	0.00131	mg/L	0.000272	20.73%
Al 308.215†	42.6	0.02935	mg/L	0.017315	0.02935	mg/L	0.017315	59.00%
As 188.979†	2.0	0.00239	mg/L	0.006419	0.00239	mg/L	0.006419	268.65%
B 249.677†	-0.9	-0.00070	mg/L	0.002180	-0.00070	mg/L	0.002180	311.94%
Ba 233.527†	4.7	0.00088	mg/L	0.000188	0.00088	mg/L	0.000188	21.38%
Be 313.042†	57.1	0.00030	mg/L	0.000059	0.00030	mg/L	0.000059	19.76%
Ca 317.933†	9.7	0.00135	mg/L	0.000440	0.00135	mg/L	0.000440	32.64%
Cd 228.802†	11.3	0.00032	mg/L	0.000089	0.00032	mg/L	0.000089	27.80%
Co 228.616†	12.7	0.00030	mg/L	0.000155	0.00030	mg/L	0.000155	52.29%
Cr 267.716†	-3.5	-0.00121	mg/L	0.001082	-0.00121	mg/L	0.001082	89.65%
Cu 324.752†	151.1	0.00074	mg/L	0.000110	0.00074	mg/L	0.000110	14.89%
Fe 273.955†	11.6	0.01025	mg/L	0.002776	0.01025	mg/L	0.002776	27.08%
K 766.490†	7.4	0.01016	mg/L	0.037696	0.01016	mg/L	0.037696	371.17%
Mg 279.077†	37.3	0.03890	mg/L	0.023111	0.03890	mg/L	0.023111	59.41%
Mn 257.610†	16.3	0.00066	mg/L	0.000042	0.00066	mg/L	0.000042	6.36%
Mo 202.031†	-4.7	-0.00096	mg/L	0.000174	-0.00096	mg/L	0.000174	18.14%
Na 589.592†	72.0	0.03579	mg/L	0.023094	0.03579	mg/L	0.023094	64.52%
Na 330.237†	-9.1	-0.4852	mg/L	0.96889	-0.4852	mg/L	0.96889	199.67%
Ni 231.604†	-2.2	-0.00296	mg/L	0.002805	-0.00296	mg/L	0.002805	94.94%
Pb 220.353†	11.6	0.00189	mg/L	0.001368	0.00189	mg/L	0.001368	72.31%
Sb 206.836†	-0.7	-0.00046	mg/L	0.002386	-0.00046	mg/L	0.002386	524.13%
Se 196.026†	3.7	0.00516	mg/L	0.001805	0.00516	mg/L	0.001805	34.98%
Si 288.158†	15.7	0.01012	mg/L	0.012492	0.01012	mg/L	0.012492	123.40%
Sn 189.927†	2.9	0.00120	mg/L	0.001767	0.00120	mg/L	0.001767	147.14%
Sr 421.552†	114.7	0.00046	mg/L	0.000207	0.00046	mg/L	0.000207	45.04%
Ti 334.903†	20.9	0.00120	mg/L	0.002342	0.00120	mg/L	0.002342	195.37%
Tl 190.801†	2.1	0.00140	mg/L	0.002109	0.00140	mg/L	0.002109	150.84%
V 292.402†	57.2	0.00050	mg/L	0.000101	0.00050	mg/L	0.000101	20.32%
Zn 206.200†	1.2	0.00169	mg/L	0.002133	0.00169	mg/L	0.002133	126.08%

Analysis Begun

Start Time: 12/29/2008 3:38:53 PM
Plasma On Time: 12/29/2008 12:16:42 PM
Logged In Analyst: metals
Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\1229.sif
Batch ID:
Results Data Set: PE081229
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Autosampler Location: 21
Sample ID: DI CHECK
Date Collected: 12/29/2008 3:38:53 PM
Analyst: JLB
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution: 1X
Sample Prep Vol:

Nebulizer Parameters: DI CHECK

Analyte	Back Pressure	Flow
All	138.0 kPa	0.55 L/min

Mean Data: DI CHECK

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2011861.4	103.1	%	0.75				0.72%
ScR 361.383	144295.3	109.0	%	1.47				1.35%
Ag 328.068†	-13.5	-0.00009	mg/L	0.000376	-0.00009	mg/L	0.000376	399.99%
Al 308.215†	73.9	0.05082	mg/L	0.020003	0.05082	mg/L	0.020003	39.36%
As 188.979†	4.8	0.00569	mg/L	0.008614	0.00569	mg/L	0.008614	151.49%
B 249.677†	-2.1	-0.00162	mg/L	0.000697	-0.00162	mg/L	0.000697	43.03%
Ba 233.527†	-5.0	-0.00094	mg/L	0.000683	-0.00094	mg/L	0.000683	72.72%
Be 313.042†	-11.7	-0.00006	mg/L	0.000074	-0.00006	mg/L	0.000074	118.85%
Ca 317.933†	143.1	0.01988	mg/L	0.003805	0.01988	mg/L	0.003805	19.14%
Cd 228.802†	2.3	0.00005	mg/L	0.000094	0.00005	mg/L	0.000094	204.17%
Co 228.616†	8.3	0.00020	mg/L	0.000226	0.00020	mg/L	0.000226	114.43%
Cr 267.716†	-4.9	-0.00170	mg/L	0.001119	-0.00170	mg/L	0.001119	65.87%
Cu 324.752†	-4.7	-0.00002	mg/L	0.000137	-0.00002	mg/L	0.000137	643.80%
Fe 273.955†	19.4	0.01712	mg/L	0.005160	0.01712	mg/L	0.005160	30.15%
K 766.490†	-110.8	-0.1524	mg/L	0.06851	-0.1524	mg/L	0.06851	44.96%
Mg 279.077†	45.7	0.04767	mg/L	0.016606	0.04767	mg/L	0.016606	34.84%
Mn 257.610†	5.6	0.00023	mg/L	0.000171	0.00023	mg/L	0.000171	75.61%
Mo 202.031†	-1.4	-0.00028	mg/L	0.000361	-0.00028	mg/L	0.000361	127.75%
Na 589.592†	141.2	0.07014	mg/L	0.009405	0.07014	mg/L	0.009405	13.41%
Na 330.237†	-21.2	-1.134	mg/L	1.4888	-1.134	mg/L	1.4888	131.30%
Ni 231.604†	0.3	0.00035	mg/L	0.006287	0.00035	mg/L	0.006287	>999.9%
Pb 220.353†	-1.6	-0.00025	mg/L	0.000477	-0.00025	mg/L	0.000477	194.10%
Sb 206.836†	-9.8	-0.00694	mg/L	0.000675	-0.00694	mg/L	0.000675	9.73%
Se 196.026†	6.6	0.00916	mg/L	0.012669	0.00916	mg/L	0.012669	138.34%
Si 288.158†	-2.8	-0.00181	mg/L	0.012830	-0.00181	mg/L	0.012830	709.02%
Sn 189.927†	-1.3	-0.00054	mg/L	0.001428	-0.00054	mg/L	0.001428	263.37%
Sr 421.552†	19.7	0.00008	mg/L	0.000124	0.00008	mg/L	0.000124	156.35%
Ti 334.903†	-17.2	-0.00099	mg/L	0.001640	-0.00099	mg/L	0.001640	166.17%
Tl 190.801†	-4.0	-0.00270	mg/L	0.001906	-0.00270	mg/L	0.001906	70.63%
V 292.402†	34.4	0.00030	mg/L	0.000311	0.00030	mg/L	0.000311	105.01%
Zn 206.200†	1.1	0.00153	mg/L	0.002045	0.00153	mg/L	0.002045	133.36%

Sequence No.: 2
Sample ID: QC21
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 22
Date Collected: 12/29/2008 3:45:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: QC21

Analyte	Back Pressure	Flow
All	138.0 kPa	0.55 L/min

Mean Data: QC21

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1992950.1	102.1	%	0.74				0.73%
ScR 361.383	140821.5	106.4	%	0.48				0.45%
Ag 328.068†	163.2	0.00133	mg/L	0.000477	0.00133	mg/L	0.000477	35.98%
Al 308.215†	142.5	0.02454	mg/L	0.007937	0.02454	mg/L	0.007937	32.34%
As 188.979†	1723.8	2.005	mg/L	0.0276	2.005	mg/L	0.0276	1.38%
B 249.677†	1.5	-0.00329	mg/L	0.001578	-0.00329	mg/L	0.001578	48.01%
Ba 233.527†	1.3	-0.00061	mg/L	0.000513	-0.00061	mg/L	0.000513	84.11%
Be 313.042†	361872.7	1.906	mg/L	0.0047	1.906	mg/L	0.0047	0.25%
Ca 317.933†	14551.8	2.019	mg/L	0.0051	2.019	mg/L	0.0051	0.25%
Cd 228.802†	65838.6	1.919	mg/L	0.0188	1.919	mg/L	0.0188	0.98%
Co 228.616†	84358.4	1.983	mg/L	0.0246	1.983	mg/L	0.0246	1.24%
Cr 267.716†	5565.7	1.912	mg/L	0.0126	1.912	mg/L	0.0126	0.66%
Cu 324.752†	406455.8	1.991	mg/L	0.0060	1.991	mg/L	0.0060	0.30%
Fe 273.955†	2246.8	1.980	mg/L	0.0144	1.980	mg/L	0.0144	0.73%
K 766.490†	-184.8	-0.2543	mg/L	0.04243	-0.2543	mg/L	0.04243	16.69%
Mg 279.077†	1970.7	2.068	mg/L	0.0072	2.068	mg/L	0.0072	0.35%
Mn 257.610†	48750.6	1.969	mg/L	0.0006	1.969	mg/L	0.0006	0.03%
Mo 202.031†	9466.4	1.952	mg/L	0.0190	1.952	mg/L	0.0190	0.97%
Na 589.592†	78.2	0.03885	mg/L	0.006703	0.03885	mg/L	0.006703	17.25%
Na 330.237†	4.6	-0.1110	mg/L	0.52205	-0.1110	mg/L	0.52205	470.14%
Ni 231.604†	1460.9	1.936	mg/L	0.0191	1.936	mg/L	0.0191	0.99%
Pb 220.353†	12629.5	2.055	mg/L	0.0312	2.055	mg/L	0.0312	1.52%
Sb 206.836†	2961.5	2.085	mg/L	0.0212	2.085	mg/L	0.0212	1.02%
Se 196.026†	1449.5	2.007	mg/L	0.0126	2.007	mg/L	0.0126	0.63%
Si 288.158†	36.1	0.02936	mg/L	0.004196	0.02936	mg/L	0.004196	14.29%
Sn 189.927†	-3.0	0.00022	mg/L	0.000695	0.00022	mg/L	0.000695	317.46%
Sr 421.552†	488287.8	1.956	mg/L	0.0075	1.956	mg/L	0.0075	0.38%
Ti 334.903†	33598.2	1.927	mg/L	0.0036	1.927	mg/L	0.0036	0.19%
Tl 190.801†	3266.5	2.154	mg/L	0.0239	2.154	mg/L	0.0239	1.11%
V 292.402†	219232.9	2.001	mg/L	0.0211	2.001	mg/L	0.0211	1.05%
Zn 206.200†	1333.9	1.891	mg/L	0.0107	1.891	mg/L	0.0107	0.57%

Sequence No.: 3
Sample ID: QC7M
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 23
Date Collected: 12/29/2008 3:52:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: QC7M

Analyte	Back Pressure	Flow
All	138.0 kPa	0.55 L/min

Mean Data: QC7M

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1934983.9	99.13	%	0.240				0.24%
ScR 361.383	136248.2	102.9	%	0.28				0.27%
Ag 328.068†	155520.3	1.096	mg/L	0.0044	1.096	mg/L	0.0044	0.40%
Al 308.215†	3042.6	2.093	mg/L	0.0158	2.093	mg/L	0.0158	0.75%
As 188.979†	-0.7	-0.00149	mg/L	0.001581	-0.00149	mg/L	0.001581	106.31%
B 249.677†	2578.1	2.025	mg/L	0.0188	2.025	mg/L	0.0188	0.93%
Ba 233.527†	10637.3	1.978	mg/L	0.0115	1.978	mg/L	0.0115	0.58%
Be 313.042†	192.0	0.00101	mg/L	0.000098	0.00101	mg/L	0.000098	9.72%
Ca 317.933†	5.9	0.00082	mg/L	0.001967	0.00082	mg/L	0.001967	240.13%
Cd 228.802†	28.8	0.00085	mg/L	0.000045	0.00085	mg/L	0.000045	5.33%
Co 228.616†	49.3	0.00070	mg/L	0.000145	0.00070	mg/L	0.000145	20.80%
Cr 267.716†	0.4	0.00014	mg/L	0.000807	0.00014	mg/L	0.000807	595.93%
Cu 324.752†	253.6	0.00124	mg/L	0.000077	0.00124	mg/L	0.000077	6.24%
Fe 273.955†	3.8	0.00338	mg/L	0.001614	0.00338	mg/L	0.001614	47.72%
K 766.490†	14881.9	20.48	mg/L	0.157	20.48	mg/L	0.157	0.77%
Mg 279.077†	16.2	0.01695	mg/L	0.013042	0.01695	mg/L	0.013042	76.95%
Mn 257.610†	35.7	0.00142	mg/L	0.000265	0.00142	mg/L	0.000265	18.73%
Mo 202.031†	3.3	0.00063	mg/L	0.000565	0.00063	mg/L	0.000565	89.44%
Na 589.592†	4070.9	2.023	mg/L	0.0142	2.023	mg/L	0.0142	0.70%
Na 330.237†	52.3	2.797	mg/L	0.2647	2.797	mg/L	0.2647	9.46%
Ni 231.604†	3.1	0.00311	mg/L	0.003759	0.00311	mg/L	0.003759	120.97%
Pb 220.353†	2.1	0.00118	mg/L	0.000923	0.00118	mg/L	0.000923	78.31%
Sb 206.836†	-3.6	-0.00257	mg/L	0.004511	-0.00257	mg/L	0.004511	175.55%
Se 196.026†	2.4	0.00369	mg/L	0.001946	0.00369	mg/L	0.001946	52.71%
Si 288.158†	3412.0	2.204	mg/L	0.0038	2.204	mg/L	0.0038	0.17%
Sn 189.927†	-2.1	-0.00088	mg/L	0.001421	-0.00088	mg/L	0.001421	160.78%
Sr 421.552†	267.3	0.00107	mg/L	0.000121	0.00107	mg/L	0.000121	11.27%
Ti 334.903†	19.0	0.00109	mg/L	0.001825	0.00109	mg/L	0.001825	167.23%
Tl 190.801†	-1.5	0.00078	mg/L	0.002578	0.00078	mg/L	0.002578	330.63%
V 292.402†	144.2	0.00130	mg/L	0.000327	0.00130	mg/L	0.000327	25.09%
Zn 206.200†	1.3	0.00180	mg/L	0.003082	0.00180	mg/L	0.003082	171.13%

Sequence No.: 4
Sample ID: OC04R ADUP SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 24
Date Collected: 12/29/2008 3:58:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: OC04R ADUP SWC

Analyte	Back Pressure	Flow
All	138.0 kPa	0.55 L/min

Mean Data: OC04R ADUP SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1957976.6	100.3	%	0.59				0.59%
ScR 361.383	141883.1	107.2	%	0.20				0.19%
Ag 328.068†	-284.7	0.00622	mg/L	0.000153	0.03110	mg/L	0.000764	2.46%
Al 308.215†	70108.0	48.22	mg/L	0.332	241.1	mg/L	1.66	0.69%
As 188.979†	1613.1	1.841	mg/L	0.0136	9.205	mg/L	0.0678	0.74%
B 249.677†	-5.1	0.03145	mg/L	0.004164	0.1573	mg/L	0.02082	13.24%
Ba 233.527†	3692.0	0.6759	mg/L	0.00105	3.380	mg/L	0.0052	0.15%
Be 313.042†	290.2	0.00102	mg/L	0.000044	0.00511	mg/L	0.000222	4.34%
Ca 317.933†	674557.3	93.70	mg/L	0.459	468.5	mg/L	2.29	0.49%
Cd 228.802†	1159.1	0.02657	mg/L	0.000007	0.1328	mg/L	0.00004	0.03%
Co 228.616†	5149.2	0.1155	mg/L	0.00081	0.5773	mg/L	0.00406	0.70%
Cr 267.716†	950.1	0.3302	mg/L	0.00138	1.651	mg/L	0.0069	0.42%
Cu 324.752†	997028.2	4.901	mg/L	0.0098	24.51	mg/L	0.049	0.20%
Fe 273.955†	228247.7	201.6	mg/L	1.39	1008	mg/L	7.0	0.69%
K 766.490†	3778.6	5.199	mg/L	0.0338	26.00	mg/L	0.169	0.65%
Mg 279.077†	26521.9	27.57	mg/L	0.216	137.9	mg/L	1.08	0.78%
Mn 257.610†	73538.0	2.968	mg/L	0.0088	14.84	mg/L	0.044	0.30%
Mo 202.031†	923.8	0.1873	mg/L	0.00099	0.9363	mg/L	0.00494	0.53%
Na 589.592†	4622.6	2.297	mg/L	0.0148	11.48	mg/L	0.074	0.64%
Na 330.237†	95.8	3.301	mg/L	0.4372	16.50	mg/L	2.186	13.25%
Ni 231.604†	106.0	0.1328	mg/L	0.00590	0.6642	mg/L	0.02949	4.44%
Pb 220.353†	15950.0	2.599	mg/L	0.0215	12.99	mg/L	0.107	0.83%
Sb 206.836†	299.3	0.2172	mg/L	0.00247	1.086	mg/L	0.0124	1.14%
Se 196.026†	-66.8	-0.01694	mg/L	0.012013	-0.08470	mg/L	0.060065	70.92%
Si 288.158†	11107.5	7.180	mg/L	0.0213	35.90	mg/L	0.106	0.30%
Sn 189.927†	396.3	0.1529	mg/L	0.00067	0.7644	mg/L	0.00334	0.44%
Sr 421.552†	56176.3	0.2250	mg/L	0.00154	1.125	mg/L	0.0077	0.69%
Ti 334.903†	52149.4	2.994	mg/L	0.0172	14.97	mg/L	0.086	0.57%
Tl 190.801†	-7.2	-0.01617	mg/L	0.002980	-0.08086	mg/L	0.014898	18.43%
V 292.402†	19886.8	0.1657	mg/L	0.00059	0.8283	mg/L	0.00296	0.36%
Zn 206.200†	4326.8	6.142	mg/L	0.0066	30.71	mg/L	0.033	0.11%

Sequence No.: 5
Sample ID: OC04R A SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 25
Date Collected: 12/29/2008 4:06:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: OC04R A SWC

Analyte	Back Pressure	Flow
All	138.0 kPa	0.55 L/min

Mean Data: OC04R A SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1989564.5	101.9	%	0.11				0.11%
ScR 361.383	141761.4	107.1	%	0.53				0.50%
Ag 328.068†	-479.7	0.00462	mg/L	0.000559	0.02308	mg/L	0.002793	12.10%
Al 308.215†	73260.8	50.39	mg/L	0.036	251.9	mg/L	0.18	0.07%
As 188.979†	1454.1	1.653	mg/L	0.0038	8.266	mg/L	0.0188	0.23%
B 249.677†	-13.1	0.02423	mg/L	0.002259	0.1212	mg/L	0.01129	9.32%
Ba 233.527†	3706.3	0.6789	mg/L	0.00567	3.394	mg/L	0.0284	0.84%
Be 313.042†	277.7	0.00095	mg/L	0.000062	0.00474	mg/L	0.000309	6.53%
Ca 317.933†	720695.9	100.1	mg/L	0.59	500.6	mg/L	2.93	0.59%
Cd 228.802†	909.8	0.01999	mg/L	0.000116	0.09996	mg/L	0.000578	0.58%
Co 228.616†	4910.7	0.1097	mg/L	0.00044	0.5485	mg/L	0.00222	0.40%
Cr 267.716†	891.2	0.3097	mg/L	0.00281	1.549	mg/L	0.0141	0.91%
Cu 324.752†	973397.8	4.785	mg/L	0.0052	23.93	mg/L	0.026	0.11%
Fe 273.955†	222089.8	196.1	mg/L	0.23	980.7	mg/L	1.14	0.12%
K 766.490†	3882.3	5.342	mg/L	0.0912	26.71	mg/L	0.456	1.71%
Mg 279.077†	27767.3	28.88	mg/L	0.074	144.4	mg/L	0.37	0.26%
Mn 257.610†	78362.1	3.163	mg/L	0.0019	15.81	mg/L	0.009	0.06%
Mo 202.031†	915.5	0.1853	mg/L	0.00144	0.9264	mg/L	0.00722	0.78%
Na 589.592†	4576.8	2.274	mg/L	0.0120	11.37	mg/L	0.060	0.53%
Na 330.237†	95.9	3.328	mg/L	0.1045	16.64	mg/L	0.523	3.14%
Ni 231.604†	97.9	0.1221	mg/L	0.00288	0.6107	mg/L	0.01439	2.36%
Pb 220.353†	13937.4	2.273	mg/L	0.0037	11.36	mg/L	0.019	0.16%
Sb 206.836†	271.7	0.1982	mg/L	0.00167	0.9912	mg/L	0.00833	0.84%
Se 196.026†	-67.1	-0.01766	mg/L	0.004408	-0.08829	mg/L	0.022042	24.97%
Si 288.158†	11026.0	7.128	mg/L	0.0044	35.64	mg/L	0.022	0.06%
Sn 189.927†	408.5	0.1584	mg/L	0.00228	0.7920	mg/L	0.01140	1.44%
Sr 421.552†	59380.3	0.2379	mg/L	0.00026	1.189	mg/L	0.0013	0.11%
Ti 334.903†	53578.5	3.076	mg/L	0.0046	15.38	mg/L	0.023	0.15%
Tl 190.801†	-5.7	-0.01552	mg/L	0.002770	-0.07762	mg/L	0.013850	17.84%
V 292.402†	20192.6	0.1686	mg/L	0.00076	0.8432	mg/L	0.00382	0.45%
Zn 206.200†	4327.4	6.143	mg/L	0.0412	30.71	mg/L	0.206	0.67%

Sequence No.: 6
Sample ID: OC04R ASPK SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 26
Date Collected: 12/29/2008 4:14:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: OC04R ASPK SWC

Analyte	Back Pressure	Flow
All	138.0 kPa	0.55 L/min

Mean Data: OC04R ASPK SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2005539.7	102.7	%	1.35				1.31%
ScR 361.383	144858.7	109.4	%	0.42				0.39%
Ag 328.068†	29552.7	0.2166	mg/L	0.00419	1.083	mg/L	0.0210	1.94%
Al 308.215†	73300.8	50.41	mg/L	0.136	252.1	mg/L	0.68	0.27%
As 188.979†	2241.2	2.578	mg/L	0.0484	12.89	mg/L	0.242	1.88%
B 249.677†	-12.4	0.02504	mg/L	0.005205	0.1252	mg/L	0.02602	20.78%
Ba 233.527†	8615.3	1.591	mg/L	0.0059	7.957	mg/L	0.0294	0.37%
Be 313.042†	37588.4	0.1975	mg/L	0.00087	0.9874	mg/L	0.00435	0.44%
Ca 317.933†	721300.3	100.2	mg/L	0.49	501.0	mg/L	2.45	0.49%
Cd 228.802†	7411.0	0.2067	mg/L	0.00348	1.033	mg/L	0.0174	1.69%
Co 228.616†	13121.3	0.3029	mg/L	0.00464	1.515	mg/L	0.0232	1.53%
Cr 267.716†	1464.2	0.5068	mg/L	0.00285	2.534	mg/L	0.0142	0.56%
Cu 324.752†	1103656.0	5.424	mg/L	0.0813	27.12	mg/L	0.406	1.50%
Fe 273.955†	228764.7	202.0	mg/L	0.70	1010	mg/L	3.5	0.35%
K 766.490†	6436.6	8.857	mg/L	0.0567	44.28	mg/L	0.283	0.64%
Mg 279.077†	30097.8	31.30	mg/L	0.106	156.5	mg/L	0.53	0.34%
Mn 257.610†	68491.6	2.765	mg/L	0.0134	13.83	mg/L	0.067	0.48%
Mo 202.031†	802.6	0.1621	mg/L	0.00274	0.8105	mg/L	0.01369	1.69%
Na 589.592†	12848.7	6.384	mg/L	0.0234	31.92	mg/L	0.117	0.37%
Na 330.237†	168.5	6.849	mg/L	0.5286	34.24	mg/L	2.643	7.72%
Ni 231.604†	228.7	0.2946	mg/L	0.00159	1.473	mg/L	0.0080	0.54%
Pb 220.353†	25135.2	4.093	mg/L	0.0569	20.47	mg/L	0.285	1.39%
Sb 206.836†	471.8	0.3378	mg/L	0.00259	1.689	mg/L	0.0130	0.77%
Se 196.026†	512.5	0.7864	mg/L	0.00500	3.932	mg/L	0.0250	0.64%
Si 288.158†	9632.4	6.228	mg/L	0.0218	31.14	mg/L	0.109	0.35%
Sn 189.927†	400.3	0.1547	mg/L	0.00289	0.7735	mg/L	0.01443	1.87%
Sr 421.552†	107450.8	0.4304	mg/L	0.00145	2.152	mg/L	0.0073	0.34%
Ti 334.903†	52221.7	2.998	mg/L	0.0084	14.99	mg/L	0.042	0.28%
Tl 190.801†	1146.1	0.7551	mg/L	0.01262	3.776	mg/L	0.0631	1.67%
V 292.402†	42066.8	0.3663	mg/L	0.00604	1.832	mg/L	0.0302	1.65%
Zn 206.200†	4943.3	7.017	mg/L	0.0134	35.08	mg/L	0.067	0.19%

Sequence No.: 7
Sample ID: D1
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 27
Date Collected: 12/29/2008 4:21:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: D1

Analyte	Back Pressure	Flow
All	138.0 kPa	0.55 L/min

Mean Data: D1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1989821.2	101.9	%	1.47				1.44%
ScR 361.383	139560.8	105.4	%	1.00				0.95%
Ag 328.068†	0.5	0.00001	mg/L	0.000439	0.00001	mg/L	0.000439	>999.9%
Al 308.215†	73.5	0.05055	mg/L	0.021185	0.05055	mg/L	0.021185	41.91%
As 188.979†	0.9	0.00103	mg/L	0.002201	0.00103	mg/L	0.002201	213.96%
B 249.677†	-6.7	-0.00524	mg/L	0.003054	-0.00524	mg/L	0.003054	58.30%
Ba 233.527†	3.1	0.00057	mg/L	0.000121	0.00057	mg/L	0.000121	21.13%
Be 313.042†	-13.0	-0.00007	mg/L	0.000063	-0.00007	mg/L	0.000063	90.29%
Ca 317.933†	322.7	0.04483	mg/L	0.009402	0.04483	mg/L	0.009402	20.97%
Cd 228.802†	5.5	0.00016	mg/L	0.000200	0.00016	mg/L	0.000200	127.18%
Co 228.616†	2.0	0.00004	mg/L	0.000141	0.00004	mg/L	0.000141	320.99%
Cr 267.716†	1.4	0.00047	mg/L	0.001595	0.00047	mg/L	0.001595	342.38%
Cu 324.752†	816.2	0.00401	mg/L	0.000234	0.00401	mg/L	0.000234	5.85%
Fe 273.955†	115.0	0.1015	mg/L	0.01655	0.1015	mg/L	0.01655	16.31%
K 766.490†	-83.7	-0.1152	mg/L	0.07089	-0.1152	mg/L	0.07089	61.54%
Mg 279.077†	33.9	0.03528	mg/L	0.014407	0.03528	mg/L	0.014407	40.84%
Mn 257.610†	39.1	0.00158	mg/L	0.000181	0.00158	mg/L	0.000181	11.46%
Mo 202.031†	-5.1	-0.00106	mg/L	0.000524	-0.00106	mg/L	0.000524	49.46%
Na 589.592†	7.9	0.00394	mg/L	0.004025	0.00394	mg/L	0.004025	102.13%
Na 330.237†	-21.0	-1.130	mg/L	1.1037	-1.130	mg/L	1.1037	97.70%
Ni 231.604†	-1.5	-0.00203	mg/L	0.003720	-0.00203	mg/L	0.003720	183.19%
Pb 220.353†	28.9	0.00472	mg/L	0.000599	0.00472	mg/L	0.000599	12.70%
Sb 206.836†	-4.3	-0.00305	mg/L	0.003668	-0.00305	mg/L	0.003668	120.08%
Se 196.026†	1.6	0.00225	mg/L	0.006466	0.00225	mg/L	0.006466	287.35%
Si 288.158†	34.5	0.02228	mg/L	0.008209	0.02228	mg/L	0.008209	36.84%
Sn 189.927†	-2.8	-0.00119	mg/L	0.001058	-0.00119	mg/L	0.001058	88.84%
Sr 421.552†	37.1	0.00015	mg/L	0.000025	0.00015	mg/L	0.000025	17.04%
Ti 334.903†	25.5	0.00146	mg/L	0.001917	0.00146	mg/L	0.001917	130.96%
Tl 190.801†	0.7	0.00046	mg/L	0.002128	0.00046	mg/L	0.002128	462.65%
V 292.402†	33.9	0.00029	mg/L	0.000134	0.00029	mg/L	0.000134	45.93%
Zn 206.200†	7.1	0.01013	mg/L	0.002825	0.01013	mg/L	0.002825	27.89%

User canceled analysis.

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Analysis Begun

Start Time: 12/29/2008 4:32:01 PM
Logged In Analyst: metals
Spectrometer Model: Optima 4300 DV, S/N 077N0060101
Plasma On Time: 12/29/2008 12:16:42 PM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\1229.sif
Batch ID:
Results Data Set: PE081229
Results Library: C:\pe\Administrator\Results\Results.mdb

==========

Sequence No.: 8
Sample ID: OC47 MBSPK WMN
Analyst: JLB
Initial Sample Wt:
Dilution: 1X
Autosampler Location: 28
Date Collected: 12/29/2008 4:32:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: OC47 MBSPK WMN

Analyte	Back Pressure	Flow
All	137.0 kPa	0.55 L/min

Mean Data: OC47 MBSPK WMN

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2028310.0	103.9	%	0.86				0.83%
ScR 361.383	143284.2	108.2	%	0.94				0.87%
Ag 328.068†	70086.7	0.4942	mg/L	0.01378	0.4942	mg/L	0.01378	2.79%
Al 308.215†	3064.4	2.101	mg/L	0.0219	2.101	mg/L	0.0219	1.04%
As 188.979†	1780.3	2.089	mg/L	0.0289	2.089	mg/L	0.0289	1.38%
B 249.677†	-4.2	-0.00477	mg/L	0.002436	-0.00477	mg/L	0.002436	51.07%
Ba 233.527†	10434.9	1.940	mg/L	0.0144	1.940	mg/L	0.0144	0.74%
Be 313.042†	94469.6	0.4976	mg/L	0.00151	0.4976	mg/L	0.00151	0.30%
Ca 317.933†	72120.2	10.02	mg/L	0.042	10.02	mg/L	0.042	0.42%
Cd 228.802†	17696.6	0.5099	mg/L	0.00584	0.5099	mg/L	0.00584	1.14%
Co 228.616†	21135.2	0.4972	mg/L	0.00731	0.4972	mg/L	0.00731	1.47%
Cr 267.716†	1407.6	0.4833	mg/L	0.00342	0.4833	mg/L	0.00342	0.71%
Cu 324.752†	103090.7	0.5054	mg/L	0.00539	0.5054	mg/L	0.00539	1.07%
Fe 273.955†	2353.4	2.077	mg/L	0.0090	2.077	mg/L	0.0090	0.44%
K 766.490†	7159.9	9.852	mg/L	0.1313	9.852	mg/L	0.1313	1.33%
Mg 279.077†	10063.2	10.50	mg/L	0.031	10.50	mg/L	0.031	0.30%
Mn 257.610†	12524.1	0.5065	mg/L	0.00125	0.5065	mg/L	0.00125	0.25%
Mo 202.031†	19.3	0.00350	mg/L	0.000185	0.00350	mg/L	0.000185	5.29%
Na 589.592†	20276.9	10.07	mg/L	0.089	10.07	mg/L	0.089	0.88%
Na 330.237†	178.3	9.348	mg/L	0.5267	9.348	mg/L	0.5267	5.63%
Ni 231.604†	368.5	0.4861	mg/L	0.00084	0.4861	mg/L	0.00084	0.17%
Pb 220.353†	12863.6	2.093	mg/L	0.0262	2.093	mg/L	0.0262	1.25%
Sb 206.836†	-1.5	-0.00605	mg/L	0.001870	-0.00605	mg/L	0.001870	30.91%
Se 196.026†	1622.9	2.249	mg/L	0.0292	2.249	mg/L	0.0292	1.30%
Si 288.158†	6.7	0.00659	mg/L	0.001125	0.00659	mg/L	0.001125	17.09%
Sn 189.927†	-8.5	-0.00328	mg/L	0.000411	-0.00328	mg/L	0.000411	12.53%
Sr 421.552†	122856.7	0.4921	mg/L	0.00389	0.4921	mg/L	0.00389	0.79%
Ti 334.903†	16.1	0.00079	mg/L	0.001134	0.00079	mg/L	0.001134	143.32%
Tl 190.801†	3216.0	2.149	mg/L	0.0208	2.149	mg/L	0.0208	0.97%
V 292.402†	57127.7	0.5176	mg/L	0.00526	0.5176	mg/L	0.00526	1.02%
Zn 206.200†	349.3	0.4964	mg/L	0.00192	0.4964	mg/L	0.00192	0.39%

Sequence No.: 9
Sample ID: CV 7
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 12/29/2008 4:39:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	138.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1971124.5	101.0	%	0.44				0.44%
ScR 361.383	139978.5	105.7	%	1.33				1.26%
Ag 328.068†	151461.7	1.068	mg/L	0.0096	1.068	mg/L	0.0096	0.90%
Al 308.215†	2947.0	1.990	mg/L	0.0199	1.990	mg/L	0.0199	1.00%
As 188.979†	1722.4	2.014	mg/L	0.0288	2.014	mg/L	0.0288	1.43%
B 249.677†	1198.8	0.9397	mg/L	0.00785	0.9397	mg/L	0.00785	0.84%
Ba 233.527†	5056.1	0.9398	mg/L	0.00952	0.9398	mg/L	0.00952	1.01%
Be 313.042†	178625.7	0.9408	mg/L	0.00458	0.9408	mg/L	0.00458	0.49%
Ca 317.933†	14525.9	2.017	mg/L	0.0250	2.017	mg/L	0.0250	1.24%
Cd 228.802†	32946.0	0.9565	mg/L	0.01285	0.9565	mg/L	0.01285	1.34%
Co 228.616†	41836.8	0.9834	mg/L	0.00706	0.9834	mg/L	0.00706	0.72%
Cr 267.716†	2739.6	0.9413	mg/L	0.00726	0.9413	mg/L	0.00726	0.77%
Cu 324.752†	208245.9	1.020	mg/L	0.0066	1.020	mg/L	0.0066	0.65%
Fe 273.955†	2297.4	2.027	mg/L	0.0303	2.027	mg/L	0.0303	1.49%
K 766.490†	13673.7	18.82	mg/L	0.183	18.82	mg/L	0.183	0.97%
Mg 279.077†	1950.3	2.040	mg/L	0.0239	2.040	mg/L	0.0239	1.17%
Mn 257.610†	24036.0	0.9710	mg/L	0.00762	0.9710	mg/L	0.00762	0.78%
Mo 202.031†	4791.5	0.9878	mg/L	0.00869	0.9878	mg/L	0.00869	0.88%
Na 589.592†	94226.7	46.82	mg/L	0.152	46.82	mg/L	0.152	0.32%
Na 330.237†	925.6	49.33	mg/L	0.666	49.33	mg/L	0.666	1.35%
Ni 231.604†	716.3	0.9491	mg/L	0.01027	0.9491	mg/L	0.01027	1.08%
Pb 220.353†	12206.6	1.986	mg/L	0.0156	1.986	mg/L	0.0156	0.78%
Sb 206.836†	2926.6	2.073	mg/L	0.0135	2.073	mg/L	0.0135	0.65%
Se 196.026†	1438.1	1.992	mg/L	0.0149	1.992	mg/L	0.0149	0.75%
Si 288.158†	3199.1	2.070	mg/L	0.0174	2.070	mg/L	0.0174	0.84%
Sn 189.927†	2163.6	0.9013	mg/L	0.00975	0.9013	mg/L	0.00975	1.08%
Sr 421.552†	249016.4	0.9975	mg/L	0.00584	0.9975	mg/L	0.00584	0.59%
Ti 334.903†	16662.3	0.9554	mg/L	0.00408	0.9554	mg/L	0.00408	0.43%
Tl 190.801†	3044.3	2.023	mg/L	0.0155	2.023	mg/L	0.0155	0.77%
V 292.402†	109897.0	1.003	mg/L	0.0097	1.003	mg/L	0.0097	0.97%
Zn 206.200†	696.0	0.9868	mg/L	0.00535	0.9868	mg/L	0.00535	0.54%

Analysis Begun

Start Time: 12/29/2008 4:52:09 PM
Logged In Analyst: metals
Spectrometer Model: Optima 4300 DV, S/N 077N0060101
Plasma On Time: 12/29/2008 12:16:42 PM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\1229.sif
Batch ID:
Results Data Set: PE081229
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: CB 2
Analyst: JLB
Initial Sample Wt:
Dilution: 1X
Autosampler Location: 1
Date Collected: 12/29/2008 4:52:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	138.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2003261.1	102.6	%	0.15				0.15%
ScR 361.383	139723.5	105.5	%	0.56				0.53%
Ag 328.068†	26.7	0.00019	mg/L	0.000599	0.00019	mg/L	0.000599	318.55%
Al 308.215†	45.7	0.03142	mg/L	0.008388	0.03142	mg/L	0.008388	26.70%
As 188.979†	2.0	0.00232	mg/L	0.003654	0.00232	mg/L	0.003654	157.37%
B 249.677†	-2.8	-0.00220	mg/L	0.001220	-0.00220	mg/L	0.001220	55.56%
Ba 233.527†	-0.8	-0.00016	mg/L	0.001068	-0.00016	mg/L	0.001068	685.81%
Be 313.042†	-1.7	-0.00001	mg/L	0.000041	-0.00001	mg/L	0.000041	436.97%
Ca 317.933†	-7.8	-0.00108	mg/L	0.001653	-0.00108	mg/L	0.001653	153.75%
Cd 228.802†	4.4	0.00012	mg/L	0.000162	0.00012	mg/L	0.000162	136.07%
Co 228.616†	7.4	0.00017	mg/L	0.000009	0.00017	mg/L	0.000009	5.10%
Cr 267.716†	-5.3	-0.00184	mg/L	0.003596	-0.00184	mg/L	0.003596	195.39%
Cu 324.752†	196.7	0.00096	mg/L	0.000143	0.00096	mg/L	0.000143	14.81%
Fe 273.955†	5.0	0.00444	mg/L	0.003127	0.00444	mg/L	0.003127	70.39%
K 766.490†	-109.8	-0.1511	mg/L	0.03395	-0.1511	mg/L	0.03395	22.46%
Mg 279.077†	36.6	0.03817	mg/L	0.006329	0.03817	mg/L	0.006329	16.58%
Mn 257.610†	11.9	0.00048	mg/L	0.000144	0.00048	mg/L	0.000144	29.96%
Mo 202.031†	0.3	0.00006	mg/L	0.001346	0.00006	mg/L	0.001346	>999.9%
Na 589.592†	37.1	0.01842	mg/L	0.009335	0.01842	mg/L	0.009335	50.68%
Na 330.237†	-12.8	-0.6818	mg/L	0.08552	-0.6818	mg/L	0.08552	12.54%
Ni 231.604†	-0.2	-0.00032	mg/L	0.002300	-0.00032	mg/L	0.002300	727.37%
Pb 220.353†	8.8	0.00143	mg/L	0.001629	0.00143	mg/L	0.001629	113.66%
Sb 206.836†	-10.5	-0.00739	mg/L	0.002546	-0.00739	mg/L	0.002546	34.43%
Se 196.026†	4.8	0.00671	mg/L	0.003319	0.00671	mg/L	0.003319	49.47%
Si 288.158†	-1.1	-0.00072	mg/L	0.005000	-0.00072	mg/L	0.005000	690.89%
Sn 189.927†	2.8	0.00117	mg/L	0.001019	0.00117	mg/L	0.001019	87.26%
Sr 421.552†	-26.7	-0.00011	mg/L	0.000133	-0.00011	mg/L	0.000133	124.41%
Ti 334.903†	13.4	0.00077	mg/L	0.001834	0.00077	mg/L	0.001834	238.11%
Tl 190.801†	2.2	0.00147	mg/L	0.003577	0.00147	mg/L	0.003577	243.91%
V 292.402†	24.8	0.00021	mg/L	0.000102	0.00021	mg/L	0.000102	48.50%
Zn 206.200†	-1.0	-0.00136	mg/L	0.001216	-0.00136	mg/L	0.001216	89.70%

Sequence No.: 2
Sample ID: OC67 MB SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 29
Date Collected: 12/29/2008 4:58:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: OC67 MB SWC

Analyte	Back Pressure	Flow
All	137.0 kPa	0.55 L/min

Mean Data: OC67 MB SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1997624.5	102.3	%	0.61				0.59%
ScR 361.383	141286.4	106.7	%	1.50				1.40%
Ag 328.068†	37.7	0.00027	mg/L	0.000291	0.00053	mg/L	0.000582	109.35%
Al 308.215†	57.2	0.03937	mg/L	0.011703	0.07875	mg/L	0.023406	29.72%
As 188.979†	1.1	0.00125	mg/L	0.001617	0.00250	mg/L	0.003233	129.27%
B 249.677†	-5.6	-0.00437	mg/L	0.002129	-0.00875	mg/L	0.004257	48.66%
Ba 233.527†	0.1	0.00001	mg/L	0.000114	0.00003	mg/L	0.000229	899.10%
Be 313.042†	-21.0	-0.00011	mg/L	0.000123	-0.00022	mg/L	0.000246	110.41%
Ca 317.933†	48.3	0.00671	mg/L	0.002633	0.01342	mg/L	0.005267	39.23%
Cd 228.802†	4.4	0.00012	mg/L	0.000093	0.00025	mg/L	0.000185	74.68%
Co 228.616†	-1.6	-0.00004	mg/L	0.000012	-0.00008	mg/L	0.000024	29.12%
Cr 267.716†	-0.9	-0.00030	mg/L	0.000954	-0.00060	mg/L	0.001908	317.98%
Cu 324.752†	213.3	0.00105	mg/L	0.000354	0.00209	mg/L	0.000709	33.88%
Fe 273.955†	8.5	0.00747	mg/L	0.001718	0.01495	mg/L	0.003436	22.98%
K 766.490†	-89.7	-0.1235	mg/L	0.08576	-0.2470	mg/L	0.17152	69.45%
Mg 279.077†	34.7	0.03622	mg/L	0.001772	0.07243	mg/L	0.003543	4.89%
Mn 257.610†	9.3	0.00038	mg/L	0.000055	0.00076	mg/L	0.000110	14.53%
Mo 202.031†	-6.6	-0.00136	mg/L	0.000966	-0.00272	mg/L	0.001932	70.93%
Na 589.592†	-12.1	-0.00603	mg/L	0.007300	-0.01207	mg/L	0.014601	120.99%
Na 330.237†	-11.9	-0.6410	mg/L	0.97351	-1.282	mg/L	1.9470	151.87%
Ni 231.604†	0.5	0.00070	mg/L	0.001693	0.00140	mg/L	0.003385	241.31%
Pb 220.353†	9.1	0.00150	mg/L	0.000842	0.00299	mg/L	0.001683	56.25%
Sb 206.836†	-10.4	-0.00738	mg/L	0.000909	-0.01476	mg/L	0.001817	12.31%
Se 196.026†	5.5	0.00758	mg/L	0.004547	0.01517	mg/L	0.009094	59.96%
Si 288.158†	7.9	0.00510	mg/L	0.006199	0.01019	mg/L	0.012398	121.62%
Sn 189.927†	-0.2	-0.00007	mg/L	0.001094	-0.00013	mg/L	0.002187	>999.9%
Sr 421.552†	-29.7	-0.00012	mg/L	0.000117	-0.00024	mg/L	0.000235	98.86%
Ti 334.903†	9.6	0.00055	mg/L	0.001740	0.00110	mg/L	0.003479	315.29%
Tl 190.801†	0.8	0.00053	mg/L	0.004102	0.00106	mg/L	0.008204	773.05%
V 292.402†	30.6	0.00026	mg/L	0.000139	0.00052	mg/L	0.000278	52.94%
Zn 206.200†	3.2	0.00454	mg/L	0.003185	0.00907	mg/L	0.006371	70.22%

Sequence No.: 3
Sample ID: OD42 MB SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 30
Date Collected: 12/29/2008 5:06:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: OD42 MB SWC

Analyte	Back Pressure	Flow
All	137.0 kPa	0.55 L/min

Mean Data: OD42 MB SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2053805.3	105.2	%	0.20				0.19%
ScR 361.383	144209.1	108.9	%	0.68				0.62%
Ag 328.068†	-2.9	-0.00002	mg/L	0.000772	-0.00004	mg/L	0.001544	>999.9%
Al 308.215†	94.3	0.06491	mg/L	0.008852	0.1298	mg/L	0.01770	13.64%
As 188.979†	-0.4	-0.00051	mg/L	0.003306	-0.00101	mg/L	0.006613	652.52%
B 249.677†	-4.1	-0.00323	mg/L	0.004222	-0.00646	mg/L	0.008444	130.66%
Ba 233.527†	-1.7	-0.00032	mg/L	0.000325	-0.00063	mg/L	0.000649	102.67%
Be 313.042†	-42.0	-0.00022	mg/L	0.000028	-0.00045	mg/L	0.000056	12.68%
Ca 317.933†	270.8	0.03762	mg/L	0.002476	0.07525	mg/L	0.004952	6.58%
Cd 228.802†	3.5	0.00010	mg/L	0.000106	0.00021	mg/L	0.000212	101.77%
Co 228.616†	4.8	0.00011	mg/L	0.000138	0.00022	mg/L	0.000277	127.97%
Cr 267.716†	-4.1	-0.00142	mg/L	0.000659	-0.00283	mg/L	0.001318	46.56%
Cu 324.752†	149.2	0.00073	mg/L	0.000233	0.00146	mg/L	0.000467	31.87%
Fe 273.955†	19.5	0.01724	mg/L	0.001063	0.03448	mg/L	0.002127	6.17%
K 766.490†	-163.4	-0.2248	mg/L	0.02620	-0.4497	mg/L	0.05241	11.65%
Mg 279.077†	31.1	0.03239	mg/L	0.019274	0.06479	mg/L	0.038547	59.50%
Mn 257.610†	15.0	0.00061	mg/L	0.000055	0.00121	mg/L	0.000110	9.11%
Mo 202.031†	-3.1	-0.00064	mg/L	0.001025	-0.00128	mg/L	0.002051	159.97%
Na 589.592†	10.6	0.00525	mg/L	0.012040	0.01050	mg/L	0.024079	229.22%
Na 330.237†	-10.9	-0.5900	mg/L	0.62314	-1.180	mg/L	1.2463	105.61%
Ni 231.604†	1.3	0.00165	mg/L	0.002340	0.00331	mg/L	0.004680	141.50%
Pb 220.353†	2.8	0.00048	mg/L	0.000714	0.00095	mg/L	0.001429	149.78%
Sb 206.836†	-5.1	-0.00362	mg/L	0.000789	-0.00725	mg/L	0.001578	21.77%
Se 196.026†	3.9	0.00544	mg/L	0.007988	0.01087	mg/L	0.015975	146.90%
Si 288.158†	4.6	0.00299	mg/L	0.010385	0.00599	mg/L	0.020769	346.99%
Sn 189.927†	-0.9	-0.00036	mg/L	0.000942	-0.00072	mg/L	0.001884	262.18%
Sr 421.552†	-25.0	-0.00010	mg/L	0.000087	-0.00020	mg/L	0.000174	86.82%
Ti 334.903†	42.1	0.00242	mg/L	0.000738	0.00483	mg/L	0.001477	30.57%
Tl 190.801†	-2.7	-0.00183	mg/L	0.000917	-0.00367	mg/L	0.001835	50.05%
V 292.402†	39.5	0.00034	mg/L	0.000327	0.00068	mg/L	0.000654	96.64%
Zn 206.200†	8.4	0.01199	mg/L	0.001573	0.02397	mg/L	0.003147	13.13%

Sequence No.: 4
Sample ID: OD42 A SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 31
Date Collected: 12/29/2008 5:14:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: OD42 A SWC

Analyte	Back Pressure	Flow
All	137.0 kPa	0.55 L/min

Mean Data: OD42 A SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2005928.3	102.8	%	0.77				0.75%
ScR 361.383	145956.5	110.2	%	0.80				0.73%
Ag 328.068†	-794.7	0.00110	mg/L	0.000632	0.00221	mg/L	0.001263	57.23%
Al 308.215†	164857.5	113.4	mg/L	1.15	226.8	mg/L	2.30	1.01%
As 188.979†	129.0	0.07698	mg/L	0.006161	0.1540	mg/L	0.01232	8.00%
B 249.677†	-1.8	0.02653	mg/L	0.003566	0.05306	mg/L	0.007132	13.44%
Ba 233.527†	1787.3	0.3237	mg/L	0.00214	0.6475	mg/L	0.00428	0.66%
Be 313.042†	352.1	0.00081	mg/L	0.000185	0.00163	mg/L	0.000370	22.74%
Ca 317.933†	698825.0	97.08	mg/L	1.593	194.2	mg/L	3.19	1.64%
Cd 228.802†	94.7	0.00223	mg/L	0.000087	0.00445	mg/L	0.000175	3.92%
Co 228.616†	3450.8	0.06905	mg/L	0.000777	0.1381	mg/L	0.00155	1.12%
Cr 267.716†	643.6	0.2220	mg/L	0.00109	0.4440	mg/L	0.00217	0.49%
Cu 324.752†	41905.6	0.2182	mg/L	0.00012	0.4364	mg/L	0.00025	0.06%
Fe 273.955†	180658.3	159.5	mg/L	1.65	319.1	mg/L	3.31	1.04%
K 766.490†	4582.8	6.306	mg/L	0.1247	12.61	mg/L	0.249	1.98%
Mg 279.077†	62988.3	65.63	mg/L	0.962	131.3	mg/L	1.92	1.47%
Mn 257.610†	64570.0	2.604	mg/L	0.0350	5.208	mg/L	0.0701	1.35%
Mo 202.031†	75.0	0.01106	mg/L	0.001207	0.02212	mg/L	0.002413	10.91%
Na 589.592†	9719.7	4.829	mg/L	0.0719	9.659	mg/L	0.1438	1.49%
Na 330.237†	80.0	5.398	mg/L	0.6169	10.80	mg/L	1.234	11.43%
Ni 231.604†	246.2	0.3178	mg/L	0.00583	0.6356	mg/L	0.01165	1.83%
Pb 220.353†	857.7	0.1783	mg/L	0.00148	0.3566	mg/L	0.00296	0.83%
Sb 206.836†	-21.3	0.00057	mg/L	0.007454	0.00113	mg/L	0.014909	>999.9%
Se 196.026†	-71.2	-0.02221	mg/L	0.002882	-0.04441	mg/L	0.005764	12.98%
Si 288.158†	17658.5	11.42	mg/L	0.145	22.84	mg/L	0.290	1.27%
Sn 189.927†	6.2	-0.00392	mg/L	0.001451	-0.00784	mg/L	0.002902	37.02%
Sr 421.552†	132322.1	0.5301	mg/L	0.00642	1.060	mg/L	0.0128	1.21%
Ti 334.903†	110846.7	6.364	mg/L	0.0917	12.73	mg/L	0.183	1.44%
Tl 190.801†	-9.3	-0.02260	mg/L	0.002520	-0.04519	mg/L	0.005040	11.15%
V 292.402†	40540.9	0.3501	mg/L	0.00088	0.7002	mg/L	0.00176	0.25%
Zn 206.200†	292.1	0.4205	mg/L	0.00465	0.8411	mg/L	0.00929	1.10%

Sequence No.: 5
Sample ID: OD42 D SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 32
Date Collected: 12/29/2008 5:22:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: OD42 D SWC

Analyte	Back Pressure	Flow
All	137.0 kPa	0.55 L/min

Mean Data: OD42 D SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2064017.4	105.7	%	0.10				0.10%
ScR 361.383	149514.9	112.9	%	0.58				0.52%
Ag 328.068†	-861.7	0.00158	mg/L	0.000717	0.00317	mg/L	0.001433	45.28%
Al 308.215†	174648.9	120.1	mg/L	0.27	240.3	mg/L	0.55	0.23%
As 188.979†	145.8	0.09352	mg/L	0.002947	0.1870	mg/L	0.00589	3.15%
B 249.677†	-17.0	0.01861	mg/L	0.002462	0.03723	mg/L	0.004924	13.23%
Ba 233.527†	2167.5	0.3932	mg/L	0.00196	0.7864	mg/L	0.00391	0.50%
Be 313.042†	369.3	0.00074	mg/L	0.000038	0.00149	mg/L	0.000077	5.16%
Ca 317.933†	460883.7	64.02	mg/L	0.141	128.0	mg/L	0.28	0.22%
Cd 228.802†	90.7	0.00203	mg/L	0.000219	0.00407	mg/L	0.000439	10.79%
Co 228.616†	3584.6	0.07065	mg/L	0.000538	0.1413	mg/L	0.00108	0.76%
Cr 267.716†	841.7	0.2902	mg/L	0.00125	0.5803	mg/L	0.00249	0.43%
Cu 324.752†	74677.0	0.3806	mg/L	0.00051	0.7612	mg/L	0.00102	0.13%
Fe 273.955†	206452.7	182.3	mg/L	0.67	364.7	mg/L	1.33	0.36%
K 766.490†	7028.4	9.671	mg/L	0.1135	19.34	mg/L	0.227	1.17%
Mg 279.077†	72188.0	75.21	mg/L	0.140	150.4	mg/L	0.28	0.19%
Mn 257.610†	76947.3	3.104	mg/L	0.0048	6.208	mg/L	0.0096	0.15%
Mo 202.031†	60.1	0.00935	mg/L	0.001036	0.01869	mg/L	0.002073	11.09%
Na 589.592†	9767.4	4.853	mg/L	0.0399	9.706	mg/L	0.0798	0.82%
Na 330.237†	69.0	4.887	mg/L	0.1943	9.775	mg/L	0.3885	3.97%
Ni 231.604†	257.0	0.3312	mg/L	0.00678	0.6623	mg/L	0.01356	2.05%
Pb 220.353†	1534.0	0.2899	mg/L	0.00137	0.5798	mg/L	0.00274	0.47%
Sb 206.836†	-23.6	0.00038	mg/L	0.001696	0.00075	mg/L	0.003391	449.44%
Se 196.026†	-69.2	-0.01658	mg/L	0.007364	-0.03315	mg/L	0.014728	44.43%
Si 288.158†	7912.8	5.125	mg/L	0.0156	10.25	mg/L	0.031	0.30%
Sn 189.927†	10.7	-0.00300	mg/L	0.000875	-0.00600	mg/L	0.001750	29.15%
Sr 421.552†	91104.6	0.3649	mg/L	0.00144	0.7299	mg/L	0.00289	0.40%
Ti 334.903†	124894.2	7.170	mg/L	0.0185	14.34	mg/L	0.037	0.26%
Tl 190.801†	-15.2	-0.02886	mg/L	0.001412	-0.05772	mg/L	0.002825	4.89%
V 292.402†	46870.2	0.4052	mg/L	0.00076	0.8105	mg/L	0.00151	0.19%
Zn 206.200†	440.1	0.6295	mg/L	0.00151	1.259	mg/L	0.0030	0.24%

Sequence No.: 6
Sample ID: OD42 G SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 33
Date Collected: 12/29/2008 5:29:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: OD42 G SWC

Analyte	Back Pressure	Flow
All	137.0 kPa	0.55 L/min

Mean Data: OD42 G SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2089371.6	107.0	%	0.57				0.53%
ScR 361.383	149144.3	112.7	%	0.33				0.29%
Ag 328.068†	-655.4	0.00064	mg/L	0.000111	0.00128	mg/L	0.000222	17.30%
Al 308.215†	123951.2	85.26	mg/L	0.107	170.5	mg/L	0.21	0.13%
As 188.979†	82.1	0.04144	mg/L	0.004126	0.08288	mg/L	0.008251	9.96%
B 249.677†	-16.4	0.00929	mg/L	0.003805	0.01859	mg/L	0.007611	40.95%
Ba 233.527†	1525.6	0.2769	mg/L	0.00088	0.5538	mg/L	0.00176	0.32%
Be 313.042†	254.2	0.00051	mg/L	0.000073	0.00102	mg/L	0.000146	14.39%
Ca 317.933†	253742.8	35.25	mg/L	0.151	70.50	mg/L	0.303	0.43%
Cd 228.802†	65.4	0.00157	mg/L	0.000168	0.00313	mg/L	0.000336	10.71%
Co 228.616†	2173.9	0.03985	mg/L	0.000300	0.07970	mg/L	0.000601	0.75%
Cr 267.716†	619.4	0.2136	mg/L	0.00039	0.4273	mg/L	0.00078	0.18%
Cu 324.752†	68477.6	0.3455	mg/L	0.00364	0.6910	mg/L	0.00728	1.05%
Fe 273.955†	143084.2	126.4	mg/L	0.34	252.7	mg/L	0.68	0.27%
K 766.490†	5192.6	7.145	mg/L	0.1029	14.29	mg/L	0.206	1.44%
Mg 279.077†	48347.3	50.37	mg/L	0.147	100.7	mg/L	0.29	0.29%
Mn 257.610†	40016.5	1.614	mg/L	0.0025	3.228	mg/L	0.0050	0.15%
Mo 202.031†	50.2	0.00867	mg/L	0.000936	0.01734	mg/L	0.001873	10.80%
Na 589.592†	5693.6	2.829	mg/L	0.0145	5.658	mg/L	0.0290	0.51%
Na 330.237†	21.4	2.164	mg/L	1.0146	4.328	mg/L	2.0292	46.88%
Ni 231.604†	169.4	0.2179	mg/L	0.00343	0.4358	mg/L	0.00686	1.57%
Pb 220.353†	1255.9	0.2330	mg/L	0.00163	0.4660	mg/L	0.00326	0.70%
Sb 206.836†	-25.1	-0.00357	mg/L	0.002389	-0.00715	mg/L	0.004777	66.83%
Se 196.026†	-48.3	-0.01275	mg/L	0.007424	-0.02550	mg/L	0.014848	58.23%
Si 288.158†	12565.0	8.125	mg/L	0.0214	16.25	mg/L	0.043	0.26%
Sn 189.927†	1.9	-0.00414	mg/L	0.000550	-0.00828	mg/L	0.001100	13.27%
Sr 421.552†	59355.0	0.2378	mg/L	0.00072	0.4755	mg/L	0.00144	0.30%
Ti 334.903†	103077.0	5.917	mg/L	0.0156	11.83	mg/L	0.031	0.26%
Tl 190.801†	-3.5	-0.01590	mg/L	0.002140	-0.03180	mg/L	0.004279	13.46%
V 292.402†	31751.3	0.2735	mg/L	0.00306	0.5471	mg/L	0.00613	1.12%
Zn 206.200†	301.9	0.4316	mg/L	0.00053	0.8631	mg/L	0.00106	0.12%

Sequence No.: 7
Sample ID: OC67 ADUP SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 34
Date Collected: 12/29/2008 5:37:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: OC67 ADUP SWC

Analyte	Back Pressure	Flow
All	138.0 kPa	0.55 L/min

Mean Data: OC67 ADUP SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2070906.9	106.1	%	0.31				0.29%
ScR 361.383	147743.7	111.6	%	0.44				0.39%
Ag 328.068†	-410.0	0.00077	mg/L	0.000281	0.00155	mg/L	0.000562	36.28%
Al 308.215†	103925.1	71.48	mg/L	0.219	143.0	mg/L	0.44	0.31%
As 188.979†	78.0	0.04692	mg/L	0.003455	0.09383	mg/L	0.006911	7.36%
B 249.677†	32.1	0.04093	mg/L	0.003325	0.08186	mg/L	0.006650	8.12%
Ba 233.527†	773.4	0.1390	mg/L	0.00074	0.2779	mg/L	0.00148	0.53%
Be 313.042†	209.7	0.00044	mg/L	0.000182	0.00088	mg/L	0.000364	41.43%
Ca 317.933†	226269.5	31.43	mg/L	0.014	62.86	mg/L	0.027	0.04%
Cd 228.802†	114.7	0.00302	mg/L	0.000060	0.00605	mg/L	0.000121	2.00%
Co 228.616†	1816.1	0.03280	mg/L	0.000375	0.06559	mg/L	0.000749	1.14%
Cr 267.716†	460.5	0.1589	mg/L	0.00064	0.3178	mg/L	0.00128	0.40%
Cu 324.752†	115942.8	0.5749	mg/L	0.00336	1.150	mg/L	0.0067	0.58%
Fe 273.955†	101404.8	89.55	mg/L	0.200	179.1	mg/L	0.40	0.22%
K 766.490†	4081.0	5.616	mg/L	0.0625	11.23	mg/L	0.125	1.11%
Mg 279.077†	30480.0	31.75	mg/L	0.018	63.50	mg/L	0.036	0.06%
Mn 257.610†	28998.4	1.169	mg/L	0.0043	2.339	mg/L	0.0085	0.36%
Mo 202.031†	90.7	0.01732	mg/L	0.000271	0.03464	mg/L	0.000542	1.57%
Na 589.592†	30482.0	15.15	mg/L	0.091	30.29	mg/L	0.182	0.60%
Na 330.237†	271.8	15.45	mg/L	0.959	30.90	mg/L	1.917	6.21%
Ni 231.604†	132.3	0.1704	mg/L	0.00280	0.3407	mg/L	0.00560	1.64%
Pb 220.353†	1125.9	0.2075	mg/L	0.00052	0.4150	mg/L	0.00104	0.25%
Sb 206.836†	-24.4	-0.00441	mg/L	0.001080	-0.00882	mg/L	0.002160	24.50%
Se 196.026†	-35.3	-0.00767	mg/L	0.005780	-0.01534	mg/L	0.011559	75.35%
Si 288.158†	16292.4	10.53	mg/L	0.018	21.06	mg/L	0.035	0.17%
Sn 189.927†	25.2	0.00720	mg/L	0.001230	0.01440	mg/L	0.002460	17.09%
Sr 421.552†	50356.6	0.2017	mg/L	0.00087	0.4034	mg/L	0.00173	0.43%
Ti 334.903†	90906.3	5.219	mg/L	0.0117	10.44	mg/L	0.023	0.22%
Tl 190.801†	-5.4	-0.01511	mg/L	0.002739	-0.03022	mg/L	0.005478	18.13%
V 292.402†	25163.4	0.2172	mg/L	0.00147	0.4343	mg/L	0.00293	0.67%
Zn 206.200†	260.0	0.3712	mg/L	0.00077	0.7424	mg/L	0.00153	0.21%

Sequence No.: 8
Sample ID: OC67 A SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 35
Date Collected: 12/29/2008 5:44:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: OC67 A SWC

Analyte	Back Pressure	Flow
All	138.0 kPa	0.55 L/min

Mean Data: OC67 A SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2057243.9	105.4	%	0.59				0.56%
ScR 361.383	145734.7	110.1	%	1.07				0.97%
Ag 328.068†	-400.9	0.00095	mg/L	0.000449	0.00190	mg/L	0.000897	47.32%
Al 308.215†	108209.5	74.43	mg/L	0.228	148.9	mg/L	0.46	0.31%
As 188.979†	83.1	0.05184	mg/L	0.001237	0.1037	mg/L	0.00247	2.39%
B 249.677†	32.4	0.04156	mg/L	0.002072	0.08311	mg/L	0.004144	4.99%
Ba 233.527†	833.8	0.1501	mg/L	0.00066	0.3002	mg/L	0.00132	0.44%
Be 313.042†	202.5	0.00042	mg/L	0.000038	0.00085	mg/L	0.000076	8.94%
Ca 317.933†	241495.3	33.55	mg/L	0.055	67.09	mg/L	0.111	0.16%
Cd 228.802†	105.5	0.00273	mg/L	0.000082	0.00547	mg/L	0.000165	3.02%
Co 228.616†	1836.1	0.03354	mg/L	0.000357	0.06708	mg/L	0.000714	1.06%
Cr 267.716†	459.7	0.1587	mg/L	0.00134	0.3175	mg/L	0.00268	0.84%
Cu 324.752†	99232.3	0.4933	mg/L	0.00802	0.9865	mg/L	0.01604	1.63%
Fe 273.955†	103987.2	91.84	mg/L	0.201	183.7	mg/L	0.40	0.22%
K 766.490†	4155.0	5.717	mg/L	0.0032	11.43	mg/L	0.006	0.06%
Mg 279.077†	29522.7	30.75	mg/L	0.023	61.50	mg/L	0.045	0.07%
Mn 257.610†	27407.6	1.105	mg/L	0.0041	2.210	mg/L	0.0083	0.37%
Mo 202.031†	91.9	0.01747	mg/L	0.000379	0.03495	mg/L	0.000759	2.17%
Na 589.592†	32346.4	16.07	mg/L	0.082	32.14	mg/L	0.164	0.51%
Na 330.237†	302.1	17.03	mg/L	1.100	34.07	mg/L	2.200	6.46%
Ni 231.604†	141.3	0.1821	mg/L	0.00268	0.3642	mg/L	0.00536	1.47%
Pb 220.353†	1011.0	0.1900	mg/L	0.00141	0.3800	mg/L	0.00281	0.74%
Sb 206.836†	-20.5	-0.00209	mg/L	0.002761	-0.00418	mg/L	0.005523	132.07%
Se 196.026†	-33.8	-0.00420	mg/L	0.002169	-0.00840	mg/L	0.004337	51.64%
Si 288.158†	15846.4	10.24	mg/L	0.052	20.48	mg/L	0.104	0.51%
Sn 189.927†	28.4	0.00826	mg/L	0.001510	0.01651	mg/L	0.003019	18.28%
Sr 421.552†	53097.4	0.2127	mg/L	0.00076	0.4254	mg/L	0.00153	0.36%
Ti 334.903†	88396.7	5.075	mg/L	0.0053	10.15	mg/L	0.011	0.10%
Tl 190.801†	-10.1	-0.01791	mg/L	0.005521	-0.03582	mg/L	0.011042	30.83%
V 292.402†	24340.8	0.2097	mg/L	0.00333	0.4194	mg/L	0.00665	1.59%
Zn 206.200†	265.8	0.3795	mg/L	0.00033	0.7591	mg/L	0.00065	0.09%

Sequence No.: 9
Sample ID: OC67 MBSPK SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 36
Date Collected: 12/29/2008 5:52:38 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: OC67 MBSPK SWC

Analyte	Back Pressure	Flow
All	138.0 kPa	0.55 L/min

Mean Data: OC67 MBSPK SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2022107.7	103.6	%	0.13				0.13%
ScR 361.383	144392.7	109.1	%	0.50				0.45%
Ag 328.068†	76396.8	0.5387	mg/L	0.00152	1.077	mg/L	0.0030	0.28%
Al 308.215†	2984.3	2.046	mg/L	0.0272	4.092	mg/L	0.0545	1.33%
As 188.979†	1748.2	2.052	mg/L	0.0156	4.103	mg/L	0.0311	0.76%
B 249.677†	-5.7	-0.00589	mg/L	0.002191	-0.01178	mg/L	0.004381	37.19%
Ba 233.527†	10177.0	1.892	mg/L	0.0011	3.785	mg/L	0.0021	0.06%
Be 313.042†	91976.7	0.4844	mg/L	0.00063	0.9689	mg/L	0.00126	0.13%
Ca 317.933†	70679.7	9.818	mg/L	0.0097	19.64	mg/L	0.019	0.10%
Cd 228.802†	16591.0	0.4777	mg/L	0.00169	0.9553	mg/L	0.00339	0.35%
Co 228.616†	20425.2	0.4805	mg/L	0.00149	0.9609	mg/L	0.00297	0.31%
Cr 267.716†	1380.8	0.4741	mg/L	0.00267	0.9483	mg/L	0.00534	0.56%
Cu 324.752†	101135.3	0.4958	mg/L	0.00018	0.9916	mg/L	0.00036	0.04%
Fe 273.955†	2376.8	2.098	mg/L	0.0399	4.196	mg/L	0.0797	1.90%
K 766.490†	6852.2	9.429	mg/L	0.1089	18.86	mg/L	0.218	1.15%
Mg 279.077†	9845.2	10.27	mg/L	0.016	20.54	mg/L	0.031	0.15%
Mn 257,610†	12441.8	0.5031	mg/L	0.00198	1.006	mg/L	0.0040	0.39%
Mo 202.031†	19.1	0.00347	mg/L	0.000348	0.00694	mg/L	0.000697	10.03%
Na 589.592†	19265.2	9.572	mg/L	0.0202	19.14	mg/L	0.040	0.21%
Na 330.237†	162.1	8.487	mg/L	0.9389	16.97	mg/L	1.878	11.06%
Ni 231.604†	355.1	0.4684	mg/L	0.00173	0.9368	mg/L	0.00347	0.37%
Pb 220.353†	12331.2	2.006	mg/L	0.0053	4.012	mg/L	0.0106	0.26%
Sb 206.836†	7.1	0.00019	mg/L	0.001478	0.00038	mg/L	0.002957	774.51%
Se 196.026†	1469.6	2.037	mg/L	0.0071	4.073	mg/L	0.0143	0.35%
Si 288.158†	13.7	0.01111	mg/L	0.003117	0.02222	mg/L	0.006234	28.06%
Sn 189.927†	-6.6	-0.00247	mg/L	0.002274	-0.00495	mg/L	0.004548	91.94%
Sr 421.552†	118118.8	0.4732	mg/L	0.00036	0.9463	mg/L	0.00072	0.08%
Ti 334.903†	73.7	0.00410	mg/L	0.001798	0.00820	mg/L	0.003597	43.85%
Tl 190.801†	3049.3	2.038	mg/L	0.0079	4.075	mg/L	0.0159	0.39%
V 292.402†	55740.5	0.5051	mg/L	0.00130	1.010	mg/L	0.0026	0.26%
Zn 206.200†	337.6	0.4798	mg/L	0.00426	0.9595	mg/L	0.00852	0.89%

Sequence No.: 10
Sample ID: OD42 MBSPK SWC
Analyst: JLB
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 37
Date Collected: 12/29/2008 6:00:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: OD42 MBSPK SWC

Analyte	Back Pressure	Flow
All	138.0 kPa	0.55 L/min

Mean Data: OD42 MBSPK SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2003732.7	102.7	%	0.16				0.16%
ScR 361.383	141565.1	106.9	%	0.43				0.40%
Ag 328.068†	79319.0	0.5593	mg/L	0.00277	1.119	mg/L	0.0055	0.50%
Al 308.215†	3102.5	2.127	mg/L	0.0080	4.254	mg/L	0.0159	0.37%
As 188.979†	1818.9	2.136	mg/L	0.0068	4.271	mg/L	0.0136	0.32%
B 249.677†	-6.3	-0.00642	mg/L	0.003641	-0.01284	mg/L	0.007281	56.71%
Ba 233.527†	10673.1	1.985	mg/L	0.0036	3.969	mg/L	0.0072	0.18%
Be 313.042†	96070.2	0.5060	mg/L	0.00197	1.012	mg/L	0.0039	0.39%
Ca 317.933†	73701.3	10.24	mg/L	0.032	20.47	mg/L	0.065	0.32%
Cd 228.802†	17139.9	0.4934	mg/L	0.00195	0.9868	mg/L	0.00390	0.40%
Co 228.616†	21221.6	0.4992	mg/L	0.00344	0.9984	mg/L	0.00688	0.69%
Cr 267.716†	1435.6	0.4930	mg/L	0.00545	0.9859	mg/L	0.01089	1.10%
Cu 324.752†	105579.7	0.5176	mg/L	0.00244	1.035	mg/L	0.0049	0.47%
Fe 273.955†	2404.1	2.122	mg/L	0.0143	4.244	mg/L	0.0285	0.67%
K 766.490†	7150.8	9.840	mg/L	0.2259	19.68	mg/L	0.452	2.30%
Mg 279.077†	10331.0	10.78	mg/L	0.003	21.55	mg/L	0.005	0.02%
Mn 257.610†	13064.0	0.5282	mg/L	0.00012	1.056	mg/L	0.0002	0.02%
Mo 202.031†	18.4	0.00331	mg/L	0.000382	0.00661	mg/L	0.000763	11.54%
Na 589.592†	20134.8	10.00	mg/L	0.078	20.01	mg/L	0.157	0.78%
Na 330.237†	203.2	10.67	mg/L	0.524	21.34	mg/L	1.049	4.91%
Ni 231.604†	372.7	0.4936	mg/L	0.00602	0.9871	mg/L	0.01205	1.22%
Pb 220.353†	12937.1	2.105	mg/L	0.0084	4.210	mg/L	0.0168	0.40%
Sb 206.836†	3035.2	2.147	mg/L	0.0067	4.294	mg/L	0.0135	0.31%
Se 196.026†	1537.8	2.131	mg/L	0.0105	4.262	mg/L	0.0210	0.49%
Si 288.158†	32.8	0.02350	mg/L	0.001815	0.04701	mg/L	0.003631	7.72%
Sn 189.927†	-11.3	-0.00351	mg/L	0.000852	-0.00701	mg/L	0.001703	24.30%
Sr 421.552†	123987.2	0.4967	mg/L	0.00237	0.9933	mg/L	0.00473	0.48%
Ti 334.903†	46.3	0.00252	mg/L	0.001076	0.00505	mg/L	0.002152	42.65%
Tl 190.801†	3164.9	2.115	mg/L	0.0040	4.230	mg/L	0.0080	0.19%
V 292.402†	56852.5	0.5152	mg/L	0.00310	1.030	mg/L	0.0062	0.60%
Zn 206.200†	359.0	0.5101	mg/L	0.00144	1.020	mg/L	0.0029	0.28%

Sequence No.: 11
Sample ID: D2
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 38
Date Collected: 12/29/2008 6:08:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: D2

Analyte	Back Pressure	Flow
All	138.0 kPa	0.55 L/min

Mean Data: D2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1990727.3	102.0	%	0.74				0.72%
ScR 361.383	142339.3	107.5	%	0.44				0.41%
Ag 328.068†	54.3	0.00038	mg/L	0.000086	0.00038	mg/L	0.000086	22.36%
Al 308.215†	48.0	0.03302	mg/L	0.008117	0.03302	mg/L	0.008117	24.58%
As 188.979†	3.1	0.00360	mg/L	0.005448	0.00360	mg/L	0.005448	151.33%
B 249.677†	-7.9	-0.00624	mg/L	0.002321	-0.00624	mg/L	0.002321	37.20%
Ba 233.527†	4.8	0.00088	mg/L	0.000315	0.00088	mg/L	0.000315	35.68%
Be 313.042†	-6.5	-0.00004	mg/L	0.000143	-0.00004	mg/L	0.000143	403.82%
Ca 317.933†	41.3	0.00573	mg/L	0.001985	0.00573	mg/L	0.001985	34.62%
Cd 228.802†	8.6	0.00024	mg/L	0.000097	0.00024	mg/L	0.000097	40.72%
Co 228.616†	7.9	0.00019	mg/L	0.000093	0.00019	mg/L	0.000093	50.01%
Cr 267.716†	-3.7	-0.00129	mg/L	0.001767	-0.00129	mg/L	0.001767	137.25%
Cu 324.752†	186.8	0.00092	mg/L	0.000065	0.00092	mg/L	0.000065	7.06%
Fe 273.955†	6.8	0.00599	mg/L	0.000120	0.00599	mg/L	0.000120	2.00%
K 766.490†	-51.5	-0.07086	mg/L	0.074984	-0.07086	mg/L	0.074984	105.82%
Mg 279.077†	25.7	0.02678	mg/L	0.013428	0.02678	mg/L	0.013428	50.14%
Mn 257.610†	13.1	0.00053	mg/L	0.000155	0.00053	mg/L	0.000155	29.34%
Mo 202.031†	-4.1	-0.00085	mg/L	0.000342	-0.00085	mg/L	0.000342	40.14%
Na 589.592†	-20.5	-0.01018	mg/L	0.022216	-0.01018	mg/L	0.022216	218.29%
Na 330.237†	-8.9	-0.4760	mg/L	1.21258	-0.4760	mg/L	1.21258	254.74%
Ni 231.604†	1.2	0.00153	mg/L	0.000936	0.00153	mg/L	0.000936	61.33%
Pb 220.353†	19.4	0.00316	mg/L	0.000642	0.00316	mg/L	0.000642	20.34%
Sb 206.836†	-5.2	-0.00368	mg/L	0.002994	-0.00368	mg/L	0.002994	81.45%
Se 196.026†	4.0	0.00559	mg/L	0.005395	0.00559	mg/L	0.005395	96.47%
Si 288.158†	1.3	0.00082	mg/L	0.006188	0.00082	mg/L	0.006188	756.53%
Sn 189.927†	-4.9	-0.00204	mg/L	0.001951	-0.00204	mg/L	0.001951	95.76%
Sr 421.552†	18.4	0.00007	mg/L	0.000150	0.00007	mg/L	0.000150	203.47%
Ti 334.903†	3.4	0.00020	mg/L	0.001075	0.00020	mg/L	0.001075	549.00%
Tl 190.801†	-2.1	-0.00138	mg/L	0.004645	-0.00138	mg/L	0.004645	337.32%
V 292.402†	44.6	0.00039	mg/L	0.000145	0.00039	mg/L	0.000145	37.65%
Zn 206.200†	1.5	0.00215	mg/L	0.001739	0.00215	mg/L	0.001739	80.92%

Sequence No.: 12
Sample ID: CV 3
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 12/29/2008 6:15:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	137.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1975208.1	101.2	%	0.53				0.52%
ScR 361.383	141480.4	106.9	%	0.42				0.40%
Ag 328.068†	152839.8	1.078	mg/L	0.0111	1.078	mg/L	0.0111	1.03%
Al 308.215†	2900.1	1.958	mg/L	0.0132	1.958	mg/L	0.0132	0.67%
As 188.979†	1714.3	2.004	mg/L	0.0065	2.004	mg/L	0.0065	0.32%
B 249.677†	1185.8	0.9295	mg/L	0.00489	0.9295	mg/L	0.00489	0.53%
Ba 233.527†	5061.5	0.9408	mg/L	0.00304	0.9408	mg/L	0.00304	0.32%
Be 313.042†	178520.6	0.9402	mg/L	0.00544	0.9402	mg/L	0.00544	0.58%
Ca 317.933†	14232.1	1.976	mg/L	0.0174	1.976	mg/L	0.0174	0.88%
Cd 228.802†	32666.3	0.9484	mg/L	0.00853	0.9484	mg/L	0.00853	0.90%
Co 228.616†	42013.9	0.9876	mg/L	0.00975	0.9876	mg/L	0.00975	0.99%
Cr 267.716†	2741.5	0.9420	mg/L	0.00517	0.9420	mg/L	0.00517	0.55%
Cu 324.752†	209106.1	1.024	mg/L	0.0096	1.024	mg/L	0.0096	0.93%
Fe 273.955†	2249.2	1.984	mg/L	0.0139	1.984	mg/L	0.0139	0.70%
K 766.490†	13445.2	18.50	mg/L	0.117	18.50	mg/L	0.117	0.63%
Mg 279.077†	1928.4	2.017	mg/L	0.0048	2.017	mg/L	0.0048	0.24%
Mn 257.610†	24425.0	0.9867	mg/L	0.00268	0.9867	mg/L	0.00268	0.27%
Mo 202.031†	4813.2	0.9922	mg/L	0.00522	0.9922	mg/L	0.00522	0.53%
Na 589.592†	92481.4	45.95	mg/L	0.187	45.95	mg/L	0.187	0.41%
Na 330.237†	898.2	47.86	mg/L	0.100	47.86	mg/L	0.100	0.21%
Ni 231.604†	712.0	0.9434	mg/L	0.00601	0.9434	mg/L	0.00601	0.64%
Pb 220.353†	12258.3	1.995	mg/L	0.0072	1.995	mg/L	0.0072	0.36%
Sb 206.836†	2935.4	2.079	mg/L	0.0071	2.079	mg/L	0.0071	0.34%
Se 196.026†	1432.5	1.984	mg/L	0.0090	1.984	mg/L	0.0090	0.46%
Si 288.158†	3208.0	2.075	mg/L	0.0042	2.075	mg/L	0.0042	0.20%
Sn 189.927†	2155.9	0.8981	mg/L	0.00417	0.8981	mg/L	0.00417	0.46%
Sr 421.552†	247487.0	0.9914	mg/L	0.00300	0.9914	mg/L	0.00300	0.30%
Ti 334.903†	16442.4	0.9428	mg/L	0.00389	0.9428	mg/L	0.00389	0.41%
Tl 190.801†	3063.6	2.036	mg/L	0.0094	2.036	mg/L	0.0094	0.46%
V 292.402†	110328.4	1.007	mg/L	0.0106	1.007	mg/L	0.0106	1.05%
Zn 206.200†	703.2	0.9970	mg/L	0.00322	0.9970	mg/L	0.00322	0.32%

Sequence No.: 13
Sample ID: CB 3
Analyst: JLB
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 12/29/2008 6:24:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	137.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2010035.3	103.0	%	0.13				0.13%
ScR 361.383	140825.5	106.4	%	0.80				0.75%
Ag 328.068†	68.6	0.00048	mg/L	0.000016	0.00048	mg/L	0.000016	3.25%
Al 308.215†	50.9	0.03501	mg/L	0.002775	0.03501	mg/L	0.002775	7.93%
As 188.979†	1.0	0.00113	mg/L	0.004526	0.00113	mg/L	0.004526	402.30%
B 249.677†	-4.5	-0.00350	mg/L	0.004948	-0.00350	mg/L	0.004948	141.20%
Ba 233.527†	-2.8	-0.00052	mg/L	0.000592	-0.00052	mg/L	0.000592	114.51%
Be 313.042†	39.3	0.00021	mg/L	0.000052	0.00021	mg/L	0.000052	25.20%
Ca 317.933†	-31.7	-0.00440	mg/L	0.003753	-0.00440	mg/L	0.003753	85.25%
Cd 228.802†	10.3	0.00030	mg/L	0.000100	0.00030	mg/L	0.000100	33.54%
Co 228.616†	5.1	0.00012	mg/L	0.000047	0.00012	mg/L	0.000047	39.69%
Cr 267.716†	1.1	0.00037	mg/L	0.000943	0.00037	mg/L	0.000943	253.94%
Cu 324.752†	78.3	0.00038	mg/L	0.000412	0.00038	mg/L	0.000412	107.37%
Fe 273.955†	1.0	0.00091	mg/L	0.000708	0.00091	mg/L	0.000708	77.62%
K 766.490†	-79.8	-0.1098	mg/L	0.07423	-0.1098	mg/L	0.07423	67.60%
Mg 279.077†	20.5	0.02143	mg/L	0.010134	0.02143	mg/L	0.010134	47.29%
Mn 257.610†	13.1	0.00053	mg/L	0.000068	0.00053	mg/L	0.000068	12.83%
Mo 202.031†	-1.5	-0.00030	mg/L	0.000507	-0.00030	mg/L	0.000507	166.41%
Na 589.592†	51.8	0.02575	mg/L	0.019632	0.02575	mg/L	0.019632	76.24%
Na 330.237†	-5.2	-0.2790	mg/L	0.56098	-0.2790	mg/L	0.56098	201.05%
Ni 231.604†	0.7	0.00089	mg/L	0.003982	0.00089	mg/L	0.003982	447.16%
Pb 220.353†	14.4	0.00235	mg/L	0.000696	0.00235	mg/L	0.000696	29.59%
Sb 206.836†	-4.1	-0.00293	mg/L	0.005506	-0.00293	mg/L	0.005506	188.18%
Se 196.026†	7.4	0.01022	mg/L	0.002894	0.01022	mg/L	0.002894	28.31%
Si 288.158†	5.6	0.00363	mg/L	0.009575	0.00363	mg/L	0.009575	263.64%
Sn 189.927†	1.9	0.00080	mg/L	0.001681	0.00080	mg/L	0.001681	209.53%
Sr 421.552†	57.9	0.00023	mg/L	0.000024	0.00023	mg/L	0.000024	10.35%
Ti 334.903†	23.0	0.00132	mg/L	0.000616	0.00132	mg/L	0.000616	46.71%
Tl 190.801†	-2.7	-0.00185	mg/L	0.003153	-0.00185	mg/L	0.003153	170.69%
V 292.402†	38.8	0.00035	mg/L	0.000110	0.00035	mg/L	0.000110	31.49%
Zn 206.200†	2.1	0.00296	mg/L	0.002040	0.00296	mg/L	0.002040	68.86%

end pkg

Mercury Analysis Log

Analyst: KM

Instrument: CETAC

Date: 12/15/08

Page: 1 of 9

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments	
STD 0.0	SMM	1x			
" 0.1					
" 0.5					
" 1.0					
" 2.0					
" 5.0					
" 10.0					
ICV			8.05	Begin CLP %R=101	✓
ICB			-0.06		✓
CCV1			4.05	%R=101	✓
CCB1			-0.01		✓
CRA			0.11		✓
OC67 MB1			0.00		✓
" MB1SPK			2.10	%R=105	✓
" A			0.59		✓
" ADUP			0.50	RPD=17%	✓
OD17 MB1			0.01		✓
" MB1SPK			2.13	%R=107	✓
" MB1SPD			2.19	%R=110	✓
" A			0.09		✓
" ADUP			0.10		✓
CCV2			4.21	%R=105	✓
CCB2			-0.01		✓
OD19 ASPK			1.09	%R=100	✓
" B					
" C					
" D					
" E					
" F					
" G					

12/15/08

Chemical/Reagent ID:

10% $SnCl_2$: MP1595

14% NH_2OH/NaCl: MP1585

Standard ID:

Standard: 2552-12

ICV/CCV: 45-14

ANALYTICAL RESOURCES INCORPORATED

Metals Data Review Checklist

Method: ICP ICP-MS GFA (CVA)

Analysis Date: 12/15/08

	Analyst KM 12/16	Peer [illegible] 12/16/08	Comment
Logbook:			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration:			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
Calibration Verification:			
ICV/CCV	✓	✓	
ICB/CCB	✓	✓	
Samples:			
RSD's & SD's	✓	✓	
Internal Standards	—	—	
Carry-over	✓	✓	
Method QC:			
CRI/CRA	✓	✓	
ICSA/ICSAB	—	—	
Post Spikes/Serial Dilutions	—	—	
Analytic Spikes	—	—	
Matrix QC:			
SRM/LCS	✓	✓	OD12
Matrix Spikes	✓	✓	OD32
Matrix Duplicates	✓	✓	OD32
Method Blanks	✓	✓	
Data Distribution:			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
Necessary Analysts Notes and CAF's	✓	✓	OD32, OD12

CETAC Hg Analysis Report - 08121501.DB - Monday, December 15, 2008, 7:06:00 PM

Analyst
Date Started Monday, December 15, 2008, 12:06:44
Worksheet ARI 10ppb CALIB
Comment

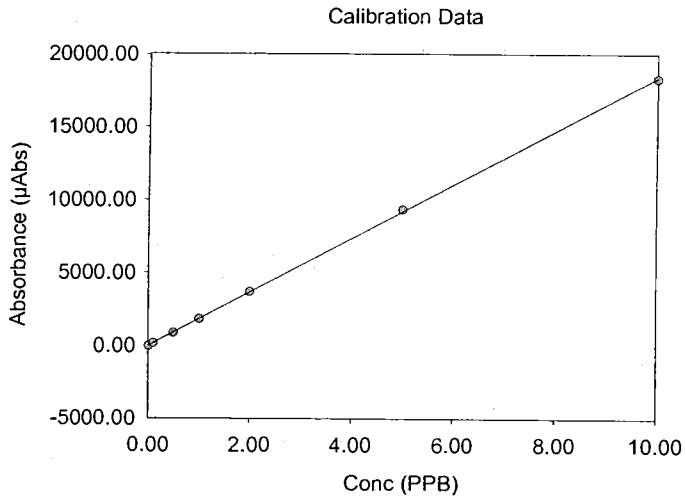
Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
Std Tube 6	15-Dec-2008, 12:06	10.00	0.70	11500.00	1.00	

Information about this calibration could not be retrieved from the Master File.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
Std Tube 6	15-Dec-2008, 12:11	10.00	0.46	18100.00	1.00	

Information about this calibration could not be retrieved from the Master File.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
Calibration Zero	15-Dec-2008, 12:16	0.00	13.70	-21.90	1.00	
Standard #1	15-Dec-2008, 12:18	0.10	1.90	170.00	1.00	
Standard #2	15-Dec-2008, 12:19	0.50	0.71	902.00	1.00	
Standard #3	15-Dec-2008, 12:21	1.00	0.72	1840.00	1.00	
Standard #4	15-Dec-2008, 12:22	2.00	4.19	3730.00	1.00	
Standard #5	15-Dec-2008, 12:24	5.00	1.06	9350.00	1.00	
Standard #6	15-Dec-2008, 12:26	10.00	1.28	18300.00	1.00	



Int.	0.000
Slope	1842.173
Correlation	0.99995

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
ICV	15-Dec-2008, 12:29	8.05	0.98	14800.00	1.00	
ICB	15-Dec-2008, 12:30	-0.06	2.09	-111.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	15-Dec-2008, 12:32	4.05	0.49	7470.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	15-Dec-2008, 12:34	-0.01	13.40	-27.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CRA	15-Dec-2008, 12:35	0.11	0.36	204.00	1.00	
OC67 MB1 SMM	15-Dec-2008, 12:37	0.00	89.00	3.64	1.00	
OC67 MB1SPK SMM	15-Dec-2008, 12:39	2.10	1.02	3860.00	1.00	
OC67 A SMM	15-Dec-2008, 12:40	0.59	0.73	1080.00	1.00	
OC67 ADUP SMM	15-Dec-2008, 12:42	0.50	3.61	924.00	1.00	
OD17 MB1 SMM	15-Dec-2008, 12:43	0.01	12.60	21.50	1.00	
OD17 MB1SPK SMM	15-Dec-2008, 12:45	2.13	0.50	3930.00	1.00	
OD17 MB1SPD SMM	15-Dec-2008, 12:47	2.19	0.42	4030.00	1.00	
OD17 A SMM	15-Dec-2008, 12:48	0.09	1.37	168.00	1.00	
OD17 ADUP SMM	15-Dec-2008, 12:50	0.10	1.00	188.00	1.00	

CETAC Hg Analysis Report - 08121501.DB - Monday, December 15, 2008, 7:06:02 PM

Analyst
Date Started Monday, December 15, 2008, 12:52:03
Worksheet ARI 10ppb CALIB
Comment

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	15-Dec-2008, 12:52	4.21	0.35	7750.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	15-Dec-2008, 12:53	-0.01	5.36	-24.90	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
OD17 ASPK SMM	15-Dec-2008, 12:55	1.09	3.49	2010.00	1.00	
OD17 B SMM	15-Dec-2008, 12:56	0.29	0.58	526.00	1.00	
OD17 C SMM	15-Dec-2008, 12:58	0.18	2.24	334.00	1.00	
OD17 D SMM	15-Dec-2008, 13:00	0.08	1.35	153.00	1.00	
OD17 E SMM	15-Dec-2008, 13:01	0.07	1.45	135.00	1.00	
OD17 F SMM	15-Dec-2008, 13:03	0.16	1.90	302.00	1.00	
OD17 G SMM	15-Dec-2008, 13:04	0.13	0.69	244.00	1.00	
OD48 MB1 SMM	15-Dec-2008, 13:06	0.01	20.80	9.70	1.00	
OD48 MB1SPK SMM	15-Dec-2008, 13:08	2.17	1.21	4000.00	1.00	
OD48 A SMM	15-Dec-2008, 13:09	0.19	0.41	358.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	15-Dec-2008, 13:11	4.24	0.87	7810.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	15-Dec-2008, 13:13	-0.02	3.98	-30.40	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
OD48 ADUP SMM	15-Dec-2008, 13:14	0.18	1.51	325.00	1.00	
OD48 ASPK SMM	15-Dec-2008, 13:16	1.24	0.60	2290.00	1.00	
OD48 B SMM	15-Dec-2008, 13:18	0.33	2.94	601.00	1.00	
OD48 C SMM	15-Dec-2008, 13:19	0.17	1.07	308.00	1.00	
OD48 D SMM	15-Dec-2008, 13:21	0.28	4.09	508.00	1.00	
OD48 E SMM	15-Dec-2008, 13:22	0.03	9.86	46.50	1.00	
OD48 F SMM	15-Dec-2008, 13:24	0.09	1.03	170.00	1.00	
OD12 MB1 SMM	15-Dec-2008, 13:26	0.00	83.00	3.54	1.00	
OD12 MB1SPK SMM	15-Dec-2008, 13:27	2.17	0.54	4000.00	1.00	
OD12 G SMM	15-Dec-2008, 13:29	0.12	0.79	220.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	15-Dec-2008, 13:31	4.03	0.69	7430.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	15-Dec-2008, 13:32	-0.02	4.75	-35.70	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
OD12 N SMM	15-Dec-2008, 13:34	0.16	0.36	287.00	1.00	
OD12 NDUP SMM	15-Dec-2008, 13:35	0.14	0.75	262.00	1.00	
OD12 NSPK SMM	15-Dec-2008, 13:37	1.21	0.32	2220.00	1.00	
OD12 O SMM	15-Dec-2008, 13:39	0.13	2.68	231.00	1.00	
OD12 W SMM	15-Dec-2008, 13:40	0.13	1.44	246.00	1.00	
OD12 AD SMM	15-Dec-2008, 13:42	0.09	2.35	161.00	1.00	
OD12 REF1 SMM	15-Dec-2008, 13:44	8.41	0.37	15500.00	2.00	
OD19 G SMM	15-Dec-2008, 13:45	0.10	1.44	188.00	1.00	
OD19 N SMM	15-Dec-2008, 13:47	0.16	0.43	297.00	1.00	
OD33 G SMM	15-Dec-2008, 13:48	0.15	1.46	283.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	15-Dec-2008, 13:50	4.23	0.77	7790.00	1.00	

Mercury Standard Prep Log

Prep Code: SMM Instrument: CETAC

Analyst: KM Date: 12/11/08

Bath Temp: 95°C Start Time: 1500 End Time: 1530

Standard ID	Stock ID	Volume Added (mL)	Final Volume (mL)	Standard Conc. (µg/L)	Number Made
STD0	—	0.00	100.0	0.0	2
STD1	2552-12	0.01	↓	0.1	2
STD2	↓	0.05	↓	0.5	2
STD3	↓	0.10	↓	1.0	2
STD4	↓	0.20	↓	2.0	2
STD5	↓	0.50	↓	5.0	2
STD6	↓	1.00	↓	10.0	2
CRA	↓	0.01	↓	0.1	1
ICB/CCB	—	0.00	↓	0.0	2
ICV/LCS	45-14	0.16	↓	8.0	2
CCV	↓	0.08	100.0	4.0	2

Chemical/Reagent ID:

HNO_3: I4559 H_2SO_4: I4504 HCl: —

5% $K_2S_2O_8$: MP1581 5% $KMnO_4$: MP1582

Prep Code: _____ Instrument: _____

Analyst: _____ Date: _____

Bath Temp: _____ Start Time: _____ End Time: _____

Standard ID	Stock ID	Volume Added (mL)	Final Volume (mL)	Standard Conc. (µg/L)	Number Made
STD0		0.00			
STD1					
STD2		0.05			
STD3		0.10			
STD4		0.20			
STD5		0.50			
STD6		1.00			
CRA					
ICB/CCB		0.00			
ICV/LCS					
CCV					

Chemical/Reagent ID:

HNO_3: _____ H_2SO_4: _____ HCl: _____

5% $K_2S_2O_8$: _____ 5% $KMnO_4$: _____

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Mercury Digestion Log

Prep Code: SMM Matrix: Soil
Analyst: DM Date: 12-09-08
Bath Temp: 95°C Start Time: 1410 End Time: 1440

ARI Sample ID	Sample Bottle #	BOD Bottle #	pH<2	Initial Weight (g) ~~Volume (mL)~~	Final Volume (mL)	# $KMnO_4$ Aliquots	CL P	Comments
OC67 A	1	T9	—	0.227	100.0	1	Y	
" ADUP	1	A23	—	0.222	↓	1	↓	
" MB1	—	H15	—	—	↓	1	↓	
" MB1SPK	—	E22	—	—	100.0	1	Y	

12-9-08 DM

Chemical/Reagent ID:
HNO_3: I4559 H_2SO_4: I4504 HCl: —
5% $K_2S_2O_8$: MP1561 5% $KMnO_4$: MP1582 Digest Tube Lot: —

Metals Prep Logs

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OC67

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SPIKING LOG

Analyst: TDM **Final Volume** 50 **Sample ID** OC67 MBISPK

Date: 12.09.08 **Final Volume (Hg):** 100

		Prepcode:	Swe		
		Spike Solution:	ICP Routine	ICP No GFA	GFA
		Standard No.:	2543-8		
		Vol Added (mL):	1.0		
	Ag		50 ✓		2.0
S	Al		200	200	
T	As		200 ✓		10
O	Ba		200	200	
C	Be		50	50	
K	Ca		1000	1000	
	Cd		50 ✓		2.0
	Co		50	50	
C	Cr		50 ✓	50	
O	Cu		50 ✓	50	
N	Fe		200	200	
C	K		1000	1000	
E	Mg		1000	1000	
N	Mn		50	50	
T	Na		1000	1000	
R	Ni		50	50	
A	Pb		200 ✓		10
T	Se		200		10
I	Sr		50	50	
O	Tl		200		10
N	V		50	50	
	Zn		50 ✓	50	

	ICP-MS #1	ICP-MS #2	ICP-MS Minerals
Ag	25		
Al			500
As	25		
Ba	25		
Be	25		
Ca			500
Cd	25		
Co	25		
Cr	25		
Cu	25		
Fe			500
K			500
Mg			500
Mn	25		
Mo		25	
Na			500
Ni	25		
Pb	25		
Sb		25	
Se	80		
Th	25		
U	25		
V	25		
Zn	80		

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std No.
Hg		CVA	1.0		
Hg MBSPK	SMM	CVA	1.0	0.2	2514-4
Sb		ICP	2000		
Sb		GFA	100		
B		ICP	500		
Mo		ICP	500		
Si		ICP	10000		
Sn		ICP	500		
Ti		ICP	2000		

Additional Elements:

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std. No.

OC67 : 5215

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Mercury Digestion Log

Prep Code: SMM Matrix: Soil
Analyst: DM Date: 12-09-08
Bath Temp: 95°C Start Time: 1410 End Time: 1440

ARI Sample ID	Sample Bottle #	BOD Bottle #	pH<2	Initial Weight (g) ~~Volume (mL)~~	Final Volume (mL)	# $KMnO_4$ Aliquots	CL P	Comments
OC67 A	1	T9	—	0.227	100.0	1	Y	
" ADUP	1	A23	—	0.222	↓	1	↓	
" MB1	—	H15	—	—	↓	1	↓	
" MB1SPK	—	E22	—	—	100.0	1	Y	

12-9-08 DM

Chemical/Reagent ID:
HNO_3: I4559 H_2SO_4: I4504 HCl: —
5% $K_2S_2O_8$: MP1561 5% $KMnO_4$: MP1562 Digest Tube Lot: —

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Digestion Log

Analyst: TDM
Matrix: Soil

Date: 12.09.08
Block Temp: 90°C

ARI Sample ID	Btl #	pH<2	Prep Code: SWC Initial Wt (g) ~~Vol (mL)~~	Prep Code: SWC Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
0001 A	1	—	1.026	500			
" B	1	—	1.045				
" MB	—	—	—				
" MBSPK	—	—	—				
0067 A	1	—	1.035				
" ADUP	1	—	1.037				
" MB1	—	—	—				
" MB1SPK	—	—	—	50.0			
				12.9.08 TDM			

Chemical/Reagent ID:

HNO_3: MP1594/I4559 HCl: I4309 H_2O_2: I4524 Tube Lot #: AB05L5309

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Metals Total Solids

Oven in:
Analyst: DM Date: 12-09-08 Time: 1225 Temp: 102°C

Oven out:
Analyst: DM Date: 12-10-08 Time: 0850 Temp: 102°C

ARI Sample ID	Tare Weight (g)	Tare + Sample Wet (g)	Tare + Sample Dry (g)	Comments
OCL1 B	0.977	5.166	1.516	
OC63 A	0.975	10.145	8.272	
OCL4 A	0.977	10.684	6.988	
" B	0.989	10.396	8.534	
" D	0.960	10.082	8.078	
" H	0.987	10.889	8.973	
" J	0.995	10.747	8.848	
" K	0.981	10.283	8.462	
" P	0.973	10.385	8.868	
" Q	0.963	10.801	8.731	
OC78 A	0.968	10.180	8.118	
OD01 A	1.002	10.095	10.009	
" B	0.980	10.436	10.412	
OD03 A	0.990	10.510	7.239	
OD13 A	0.973	10.211	6.473	
OC67 A	1.007	10.514	7.442	
		12-9-08 DM		

Analytical Resources, Incorporated
Analytical Chemists and Consultants

December 15, 2008

Joy Dunay
Anchor Environmental
1423 3rd Avenue, Suite 300
Seattle, WA 98101

RE: 040289-02 Eddon Boatyard
ARI Job No.: OA82

Dear Joy:

Please find enclosed the Chain-of-Custody (COC) record, sample receipt documentation, and the final data package for samples from the project referenced above.

Sample receipt and details of the analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Susan Dunnihoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures

cc: eFile OA82

SD/co

Chain of Custody
Documentation

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OA82

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: NW61	Turn-around Requested: 72 hr	Page: 1 of 1	
ARI Client Company: Anchor	Phone: 206 287 9130	Date: 10/15/08	Ice Present?
Client Contact: Soy Danay		No. of Coolers:	Cooler Temps:
Client Project Name: Eddon Boatyard			
Client Project #: 040289-02	Samplers: DG, JP		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: Porewater TBT	mercury	TOC	Total Solids	SMS metals	SMS SVOC	SMS PCB	Grain Size	Notes/Comments
EB-SE-03-Z-081015	10/15	1340	Sed	6	X	X							
EB-SE-03-ZZ-081015	10/15	1340	Sed	1	X	X							Archive
EB-SE-03-Z-081015-1	↓	1300	Sed	2	X	X							Hold, Grab-1
													Freeze in 6 days

Comments/Special Instructions: will call to confirm 10/16 morning	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)	
	Printed Name: David Gillingham	Printed Name: Jonathan Walter	Printed Name:	Printed Name:	
	Company: Anchor	Company: ARI	Company:	Company:	
	Date & Time: 10/15/08 1720	Date & Time: 10/15/08 1720	Date & Time:	Date & Time:	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Anchor
COC No: _____
Assigned ARI Job No: NU61

Project Name: Eddon Boatyard
Delivered by: Hand
Tracking No: _____

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO
Record cooler temperature (recommended 2.0-6.0 °C for chemistry	9.4 °C	

Cooler Accepted by: JW Date: 10/15/08 Time: 1720

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?	YES	(NO)
What kind of packing material was used?	ICE	
Was sufficient ice used (if appropriate)?	YES	(NO)
Were all bottles sealed in individual plastic bags?	YES	(NO)
Did all bottle arrive in good condition (unbroken)?	(YES)	NO
Were all bottle labels complete and legible?	(YES)	NO
Did all bottle labels and tags agree with custody papers?	(YES)	NO
Were all bottles used correct for the requested analyses?	(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation checklist)	YES	(NO)
Were all VOC vials free of air bubbles? (NA)	YES	NO
Was sufficient amount of sample sent in each bottle?	(YES)	NO

Samples Logged by: JW Date: 10/15/08 Time: 1735

*** Notify Project Manager of discrepancies or concerns ****

Explain discrepancies or negative responses:

By: Date:

0003

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: NL79 ~~ANW01~~	Turn-around Requested:		Page:	of	
ARI Client Company: ANCHOR	Phone:		Date:	Ice Present?	
Client Contact: DUNAY, JOY			No. of Coolers:	Cooler Temps:	
Client Project Name: EDDON BOATYARD					
Client Project #: 04-0289-02	Samplers:				

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: FBT								Notes/Comments
Composite of A+BC	10/16/08	12:22	H_2O	1	X								

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name:	Printed Name: Jonathon Walter	Printed Name:	Printed Name:
	Company:	Company: ARI	Company:	Company:
	Date & Time:	Date & Time: 10/16/08 1240	Date & Time:	Date & Time:

0004

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Case Narrative

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OA82

prepared
by

Analytical Resources, Inc.

ANALYTICAL
RESOURCES
INCORPORATED

Case Narrative

Client: Anchor Environmental
Project: 040289-02 Eddon Boatyard
ARI Job No.: OA82

Sample receipt

Three sediment samples were received by Analytical Resources on October 15, 2008 with a cooler temperature of 9.4°C measured by IR thermometer following ARI SOP. Samples were well-iced, in good condition and received within a short time of sampling. Samples were logged under ARI Job NU61 for bulk analysis and pore water extractions, with two samples on hold.

On November 18, 2008, Analytical Resources, Inc. (ARI) was instructed to composite samples **EB-SE-03-Z-081015** and **EB-SE-03-Z-081015-1** for analysis. The sample composite was analyzed under ARI job OA82 reported here. The sample was analyzed for TBT and Total Copper.

The sample composite was named "**EB-SE-03-Z-081018 Composite**".

TBT by Krone 1988 SIM

The sample was extracted and analyzed within the method recommended holding times.

Initial and continuing calibrations were within method requirements. Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limit. The LCS recovery was within control limits.

The duplicate relative percent difference (RPD) of Tributyltin Ion was greater than 20% for sample **EB-SE-03-Z-081018 Composite**. There are no ARI control limits for RPDs. No further corrective action is required for matrix QC.

Copper by Method SW846-6010B

The sample was prepared and analyzed within the method recommended holding times.

The method blank was clean at the reporting limit. The LCS percent recovery was within the control limits.

The duplicate RPD was within the 20% control limit.

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U	Indicates that the target analyte was not detected at the reported concentration
*	Duplicate RPD is not within established control limits
B	Reported value is less than the CRDL but ≥ the Reporting Limit
N	Matrix Spike recovery not within established control limits
NA	Not Applicable, analyte not spiked
H	The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
L	Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U	Indicates that the target analyte was not detected at the reported concentration
*	Flagged value is not within established control limits
B	Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
J	Estimated concentration when the value is less than ARI's established reporting limits
D	The spiked compound was not detected due to sample extract dilution
NR	Spiked compound recovery is not reported due to chromatographic interference
E	Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
S	Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
NA	The flagged analyte was not analyzed for
NS	The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.

F Samples were frozen prior to particle size determination

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

LCS SOLUTIONS

11/08/08

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
1	1549-3	PCB	20	ACETONE	10/10/09
2	1472-3	BCOC PEST	10	ACETONE	07/20/08
3	1517-1	PEST	02/04/20	ACETONE	05/15/09
4	1546-4	LOW PEST	0.2/0.4/2	ACETONE	05/15/09
5	1537-1	EPH	1500	MECL2	08/16/09
6	1559-2	PCP	12.5/125	ACETONE	11/05/09
7	1548-2	ABN	100	ACETONE	08/01/09
8	1487-2	TBT	10	MECL2	12/15/08
9	1493-3	PORE TBT	.25/.5	MECL2	12/15/08
10	1554-3	ABN ACID	100/200	MEOH	10/21/09
11	1556-1	TPHD	15000	ACETONE	10/23/09
12	1542-1	ABN BASE	200	ACETONE	07/01/09
13*	1427-3	LOW PCB	2	ACETONE	10/11/08
14	1547-1	LOW ABN ACID	10/20	MEOH	04/10/09
15*	1452-1	SIM PNA	15/75	MEOH	04/09/09
16	1502-2	DIOXANE	100	MEOH	02/20/09
17	1516-2	1248 PCB	20	ACETONE	05/07/09
18	1514-4	LOW SIM PNA	1.5/7.5	ACETONE	04/24/09
19	1517-3	AK103	7500	MECL2	12/29/08
20	1490-4	PNA	100	MEOH	01/10/09
21*	1414-4	SKY/BHT	100	MEOH	04/08/09
22	1539-1	HERB	12.5/12500	MEOH	08/31/09
23	1505-1	LOW ABN BASE	20	MEOH	03/20/09
24	1541-4	LOW ABN	10	ACETONE	08/01/09
25	1481-1	DIPHENYL	100	MEOH	07/20/08
26	1545-2	OP-PEST	25	MEOH	02/14/09
27	1495-1	STEROLS	200	MEOH	12/29/08
28	1494-1	ADD. PEST	4	ACETONE	01/23/09
29	1496-3	DECANES	100	MEOH	02/12/09
30	1497-2	EDB/DBCP	2	ACETONE	02/12/09
31	1510-3	TERPINEOL	100	MEOH	03/21/09

LCS SOLUTIONS

11/08/08

32	1545-3	GUAIACOL	50-200	ACETONE	06/05/09
33	1522-1	RESIN ACID	250	ACETONE	06/11/09
34	1530-2	CONGENERS	1	ACETONE	07/23/09
50	1523-1	FULL RESIN	250	ACETONE	06/10/09
*=REVERIFIED SOLUTION					

SURR SOLUTIONS

11/08/2008

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
A	1559-5	ABN	100/150	MEOH	03/13/09
B	1513-1	SIM PNA	15/75	MEOH	04/15/09
C	1559-1	SIM ABN	25/37.5	MEOH	03/13/09
D	1538-3	LOW PCB	0.2	ACETONE	07/31/09
E*	1478-1	HERB	62.5	MEOH	09/21/09
F	1520-3	PCP	12.5	ACETONE	04/18/09
G	1534-1	1,4DIOXANE	100	MEOH	02/20/09
H	1545-1	OP-PEST	25	MEOH	02/14/09
I	1559-4	LOW S. PNA	1.5	MEOH	08/28/09
J	1493-2	TBT-PORE	0.25	MECL2	12/15/08
K	1538-1	MED PCB	20	ACETONE	07/31/09
L	1486-5	TBT	10	MECL2	12/15/08
M	1558-2	EPH	1500	MECL2	09/24/09
N	1538-2	PCB	2	ACETONE	07/31/09
O	1544-3	TPH	450	MECL2	09/24/09
P	1544-2	HCID	2250	MECL2	09/24/09
Q	1497-3	EDB	2	ACETONE	02/12/09
R	1521-4	RESIN ACID	250	ACETONE	06/11/09
S	*reverified solution				
T					
U					
V					
W					
X					
Y					
Z					

Data Summary Package

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OA82

prepared
by

Analytical Resources, Inc.

TBT

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: EB-SE-03-Z-081018 COMPOSITE SAMPLE

Lab Sample ID: OA82A
LIMS ID: 08-31459
Matrix: Sediment
Data Release Authorized:
Reported: 12/03/08

QC Report No: OA82-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 11/20/08
Date Received: 11/20/08

Date Extracted: 11/25/08
Date Analyzed: 12/01/08 15:15
Instrument/Analyst: NT1/VTS
Silica Gel Cleanup: No

Sample Amount: 5.11 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 5.00
Alumina Cleanup: Yes
Moisture: 36.7%

CAS Number	Analyte	RL	Result	Q
TBT_ION	**Tributyltin Ion**	**19**	**430**	

Reported in µg/kg (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	98.7%
Tripentyl Tin Chloride	106%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: EB-SE-03-Z-081018 COMPOSITE DUPLICATE

Lab Sample ID: OA82A
LIMS ID: 08-31459
Matrix: Sediment
Data Release Authorized:
Reported: 12/03/08

QC Report No: OA82-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 11/20/08
Date Received: 11/20/08

Date Extracted: 11/25/08
Date Analyzed: 12/01/08 15:33
Instrument/Analyst: NT1/VTS
Silica Gel Cleanup: No

Sample Amount: 5.15 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 5.00
Alumina Cleanup: Yes
Moisture: 36.7%

CAS Number	Analyte	RL	Result	RPD
TBT_ION	**Tributyltin Ion**	**19**	**830**	63.5%

Reported in µg/kg (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	97.8%
Tripentyl Tin Chloride	113%

ANALYTICAL RESOURCES INCORPORATED

TBT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: OA82-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02

Client ID	TPRT	TPNT	TOT OUT
MB-112508	116%	96.0%	0
LCS-112508	120%	121%	0
EB-SE-03-Z-081018	COM98.7%E	106%	0
EB-SE-03-Z-081018	COM97.8%E	D113%	0

	LCS/MB LIMITS	QC LIMITS
(TPRT) = Tripropyl Tin Chloride	(30-160)	(30-160)
(TPNT) = Tripentyl Tin Chloride	(30-160)	(30-160)

Prep Method: SW3546
Analytical Method: TBT (Hexyl) Krone 1988
Log Number Range: 08-31459 to 08-31459

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: LCS-112508
LAB CONTROL SAMPLE

Lab Sample ID: LCS-112508
LIMS ID: 08-31459
Matrix: Sediment
Data Release Authorized:
Reported: 12/03/08

QC Report No: OA82-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Date Extracted LCS: 11/25/08
Date Analyzed LCS: 11/29/08 19:11
Instrument/Analyst LCS: NT1/YZ
Silica Gel Cleanup: No

Sample Amount LCS: 5.00 g-dry-wt
Final Extract Volume LCS: 0.50 mL
Dilution Factor LCS: 1.00
Alumina Cleanup: Yes

Analyte	LCS	Spike Added	Recovery
Tributyltin Ion	48.8	44.6	109%

Reported in µg/kg (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	120%
Tripentyl Tin Chloride	121%

FORM III

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

OA82MBS1

Lab Name: ANALYTICAL RESOURCES, INC
Client: ANCHOR

ARI Job No: OA82
Project: EDDON BOATYARD

Lab File ID: OA82MB
Date Extracted: 11/25/08

Instrument ID: NT1
Date Analyzed: 11/29/08

Matrix: SOLID
Time Analyzed: 1853

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	OA82LCSS1	OA82LCSS1	OA82SB	11/29/08
02	EB-SE-03-Z-08101	OA82A	OA82A5	12/01/08
03	EB-SE-03-Z-0810	OA82ADUP	OA82ADP5	12/01/08
04				
05				
06				
07				
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COMMENTS:

FORM IV SV

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS **Sample ID: MB-112508**
Page 1 of 1 **METHOD BLANK**

Lab Sample ID: MB-112508
LIMS ID: 08-31459
Matrix: Sediment
Data Release Authorized:
Reported: 12/03/08

QC Report No: OA82-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 11/25/08
Date Analyzed: 11/29/08 18:53
Instrument/Analyst: NT1/YZ
Silica Gel Cleanup: No

Sample Amount: 5.00 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyltin Ion	3.9	< 3.9	U

Reported in µg/kg (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	116%
Tripentyl Tin Chloride	96.0%

METALS

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: EB-SE-03-Z-081018 COMPOSITE SAMPLE

Lab Sample ID: OA82A
LIMS ID: 08-31459
Matrix: Sediment
Data Release Authorized:
Reported: 12/09/08

QC Report No: OA82-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 11/20/08
Date Received: 11/20/08

Percent Total Solids: 61.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	11/24/08	6010B	12/08/08	**7440-50-8**	**Copper**	0.3	**104**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: EB-SE-03-Z-081018 COMPOSITE DUPLICATE

Lab Sample ID: OA82A
LIMS ID: 08-31459
Matrix: Sediment
Data Release Authorized:
Reported: 12/09/08

QC Report No: OA82-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 11/20/08
Date Received: 11/20/08

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Copper	6010B	104	95.3	8.7%	+/- 20%	

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: OA82LCS
LIMS ID: 08-31459
Matrix: Sediment
Data Release Authorized:
Reported: 12/09/08

QC Report No: OA82-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Copper	6010B	50.5	50.0	101%	

Reported in mg/kg-dry

N-Control limit not met
NA-Not Applicable, Analyte Not Spiked
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: OA82MB
LIMS ID: 08-31459
Matrix: Sediment
Data Release Authorized:
Reported: 12/09/08

QC Report No: OA82-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	11/24/08	6010B	12/08/08	7440-50-8	Copper	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

TOTAL SOLIDS

Extractions Total Solids-extts
Data By: Woo suk Chang
Created: 11/24/08

Worklist: 3759
Analyst: RVR
Comments:

	ARI ID / CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1.	OA82A 08-31459 EB-SE-03-Z-081018 COMPOSITE	1.18	14.26	9.46	63.3	NR

Solids Data Entry Report Checked by: KM Date: 11/25/08
Date: 11/25/08 Data Analyst: DM

Solids Determination performed on 11/24/08 by DM

JOB	SAMPLE	CLIENTID	TAREWEIGHT	SAMPDISH	DRYWEIGHT	SOLIDS
OA82	A	EB-SE-03-Z-081018 C	0.999	10.498	6.820	61.28

Laboratory Data Package

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OA82

prepared
by

Analytical Resources, Inc.

TBT Analysis
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OA82

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

TBT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: OA82-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02

Client ID	TPRT	TPNT	TOT OUT
MB-112508	116%	96.0%	0
LCS-112508	120%	121%	0
EB-SE-03-Z-081018	COM98.7%E	106%	0
EB-SE-03-Z-081018	COM97.8%E	D113%	0

	LCS/MB LIMITS	QC LIMITS
(TPRT) = Tripropyl Tin Chloride	(30-160)	(30-160)
(TPNT) = Tripentyl Tin Chloride	(30-160)	(30-160)

Prep Method: SW3546
Analytical Method: TBT (Hexyl) Krone 1988
Log Number Range: 08-31459 to 08-31459

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: LCS-112508
LAB CONTROL SAMPLE

Lab Sample ID: LCS-112508
LIMS ID: 08-31459
Matrix: Sediment
Data Release Authorized:
Reported: 12/03/08

QC Report No: OA82-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Date Extracted LCS: 11/25/08
Date Analyzed LCS: 11/29/08 19:11
Instrument/Analyst LCS: NT1/YZ
Silica Gel Cleanup: No

Sample Amount LCS: 5.00 g-dry-wt
Final Extract Volume LCS: 0.50 mL
Dilution Factor LCS: 1.00
Alumina Cleanup: Yes

Analyte	LCS	Spike Added	Recovery
Tributyltin Ion	48.8	44.6	109%

Reported in µg/kg (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	120%
Tripentyl Tin Chloride	121%

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

OA82MBS1

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: OA82 Project: EDDON BOATYARD

Lab File ID: OA82MB Date Extracted: 11/25/08

Instrument ID: NT1 Date Analyzed: 11/29/08

Matrix: SOLID Time Analyzed: 1853

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	OA82LCSS1	OA82LCSS1	OA82SB	11/29/08
02	EB-SE-03-Z-08101	OA82A	OA82A5	12/01/08
03	EB-SE-03-Z-0810	OA82ADUP	OA82ADP5	12/01/08
04				
05				
06				
07				
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30				

COMMENTS:

FORM IV SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

Instrument ID: NT1 Project: EDDON BOATYARD

DFTPP Injection Date: 07/26/08 DFTPP Injection Time: 1256

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	51.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	54.5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	53.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	23.0
365	Greater than 0.75% of mass 198	2.18
441	Present, but less than mass 443	0.3
442	40.0 - 110.0% of mass 198	68.0
443	15.0 - 24.0% of mass 442	13.6 (20.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		IC0726A	IC0726A	07/26/08	1315
02		IC0726B	IC0726B	07/26/08	1333
03		IC0726C	IC0726C	07/26/08	1352
04		IC0726D	IC0726D	07/26/08	1411
05		IC0726E	IC0726E	07/26/08	1430
06		IC0726F	IC0726F	07/26/08	1448
07					
08					
09					
10					
11					
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22					

FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

Instrument ID: NT1 Project: EDDON BOATYARD

DFTPP Injection Date: 11/29/08 DFTPP Injection Time: 1021

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	53.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	60.4
70	Less than 2.0% of mass 69	0.1 (0.2)1
127	25.0 - 75.0% of mass 198	52.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	21.1
365	Greater than 0.75% of mass 198	2.15
441	Present, but less than mass 443	0.2
442	40.0 - 110.0% of mass 198	80.9
443	15.0 - 24.0% of mass 442	16.9 (20.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		CC1129	CC1129	11/29/08	1040
02	OA82MBS1	OA82MBS1	OA82MB	11/29/08	1853
03	OA82LCSS1	OA82LCSS1	OA82SB	11/29/08	1911
04					
05					
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FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

Instrument ID: NT1 Project: EDDON BOATYARD

DFTPP Injection Date: 12/01/08 DFTPP Injection Time: 1201

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	55.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	63.7
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	52.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	20.6
365	Greater than 0.75% of mass 198	2.03
441	Present, but less than mass 443	6.1
442	40.0 - 110.0% of mass 198	77.1
443	15.0 - 24.0% of mass 442	15.7 (20.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		CC1201	CC1201	12/01/08	1220
02	EB-SE-03-Z-08101	OA82A	OA82A5	12/01/08	1515
03	EB-SE-03-Z-0810	OA82ADUP	OA82ADP5	12/01/08	1533
04					
05					
06					
07					
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14					
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22					

FORM V SV

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: OA82 Project: EDDON BOATYARD

Cont. Calib. ID: CC1129 Date Analyzed: 11/29/08

Instrument ID: NT1 Time Analyzed: 1040

		IS1 AREA	#	RT	#	IS2 AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	176954		9.12		183984		10.02					
	UPPER LIMIT	353908		9.62		367968		10.52					
	LOWER LIMIT	88477		8.62		91992		9.52					
	CLIENT SAMP. NO.												
01	OA82MBS1	178340		9.12		244819		10.02					
02	OA82LCSS1	182018		9.12		197462		10.02					
03													
04													
05													
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 = Tetrapentyl Tin
IS2 = p-Terphenyl-d14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: OA82 Project: EDDON BOATYARD

Cont. Calib. ID: CC1201 Date Analyzed: 12/01/08

Instrument ID: NT1 Time Analyzed: 1220

		IS1 AREA #	RT #	IS2 AREA #	RT #	AREA #	RT #
	12 HOUR STD	181050	9.13	194353	10.02		
	UPPER LIMIT	362100	9.63	388706	10.52		
	LOWER LIMIT	90525	8.63	97176	9.52		
	CLIENT SAMP. NO.						
01	EB-SE-03-Z-0	226431	9.13	250399	10.02		
02	EB-SE-03-Z-0	226311	9.13	245914	10.02		
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Tetrapentyl Tin
IS2 = p-Terphenyl-d14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

TBT Analysis
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OA82

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: EB-SE-03-Z-081018 COMPOSITE SAMPLE

Lab Sample ID: OA82A
LIMS ID: 08-31459
Matrix: Sediment
Data Release Authorized:
Reported: 12/03/08

QC Report No: OA82-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 11/20/08
Date Received: 11/20/08

Date Extracted: 11/25/08
Date Analyzed: 12/01/08 15:15
Instrument/Analyst: NT1/VTS
Silica Gel Cleanup: No

Sample Amount: 5.11 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 5.00
Alumina Cleanup: Yes
Moisture: 36.7%

CAS Number	Analyte	RL	Result	Q
TBT_ION	**Tributyltin Ion**	**19**	**430**	

Reported in µg/kg (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	98.7%
Tripentyl Tin Chloride	106%

Analytical Resources, Inc.

Butyl Tins - GC/MS SIM

Data file : /chem3/nt1.i/20081201.b/oa82a5.d
Lab Smp Id: OA82A Client Smp ID: EB-SE-03-Z-081018 C
Inj Date : 01-DEC-2008 15:15
Operator : VTS Inst ID: nt1.i
Smp Info : OA82A,5
Misc Info : 08-31459
Comment : 2 ul Injection
Method : /chem3/nt1.i/20081201.b/lowbts.m
Meth Date : 01-Dec-2008 13:11 yev Quant Type: ISTD
Cal Date : 26-JUL-2008 14:48 Cal File: ic0726f.d
Als bottle: 7
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: SED.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	500.00000	Effective Final Volume of extract (uL)
Ws	8.07000	Weight of sample extracted (g)
M	36.70000	Percent Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
$	1 Tripropyl Tin (Hexyl)	291	7.509	7.507	(0.822)	9148	0.11596	56.75(R)	
	2 Tetrabutyl Tin	289	Compound Not Detected.						
	3 Tributyl Tin (Hexyl)	319	8.492	8.481	(0.930)	77987	1.14268	559.2	
*	4 Tetrapentyl Tin	333	9.131	9.131	(1.000)	226431	2.00000		
	5 Dibutyl Tin (Hexyl)	347	9.172	9.172	(0.915)	17352	~~0.38224~~	187.1	NR
$	6 Tripentyl Tin (Hexyl)	345	9.460	9.459	(0.944)	6120	0.12025	58.85	
	7 Butyl Tin (Hexyl)	347	9.795	9.794	(0.978)	8954	~~0.12294~~	60.17	NR
*	8 p-Terphenyl-d14	244	10.019	10.018	(1.000)	250399	0.20000		

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

VTS

12.2.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: oa82a5.d
Lab Smp Id: OA82A
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081201.b/lowbts.m
Misc Info: 08-31459

Calibration Date: 01-DEC-2008
Calibration Time: 12:20
Client Smp ID: EB-SE-03-Z-08101
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	181050	90525	362100	226431	25.07
8 p-Terphenyl-d14	194353	97176	388706	250399	28.84

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.13	8.63	9.63	9.13	0.00
8 p-Terphenyl-d14	10.02	9.52	10.52	10.02	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: OA82A
Level: LOW
Data Type: MS DATA
SpikeList File: TBTsed.spk
Sublist File: SED.sub
Method File: /chem3/nt1.i/20081201.b/lowbts.m
Misc Info: 08-31459

Client SDG: OA82
Fraction: SV
Client Smp ID: EB-SE-03-Z-081018 C
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

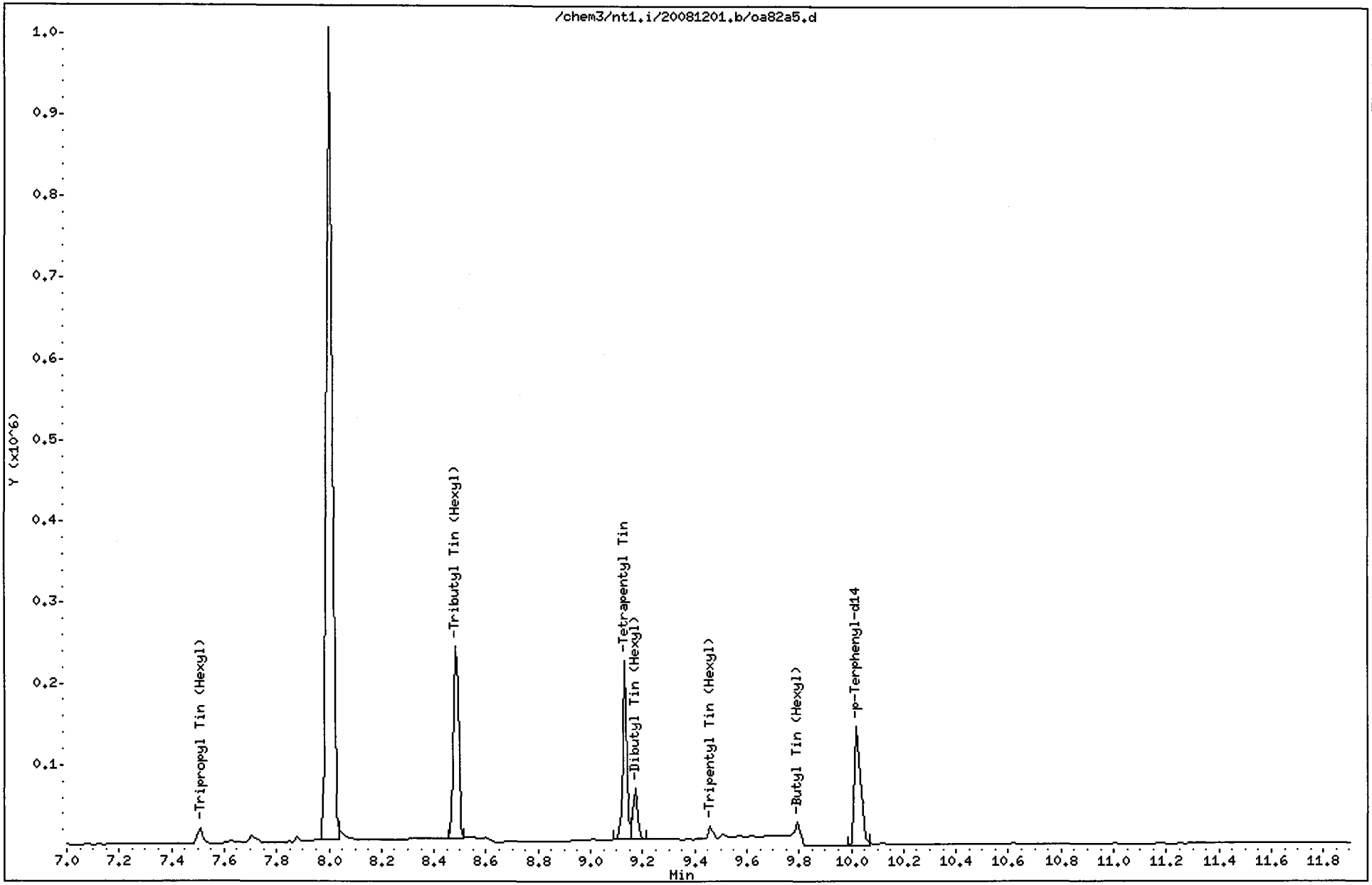
SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 Tripropyl Tin (Hex	48.94	56.75	115.96*	25-96
$ 6 Tripentyl Tin (Hex	48.94	58.85	120.25	30-136

Data File: /chem3/nt1.i/20081201.b/oa82a5.d
Date : 01-DEC-2008 15:15
Client ID: EB-SE-03-Z-081018 C
Sample Info: OA82A,5

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



OA82A 000144

Data File: /chem3/nt1.i/20081201.b/oa82a5.d

Date : 01-DEC-2008 15:15

Client ID: EB-SE-03-Z-081018 C

Instrument: nt1.i

Sample Info: OA82A,5

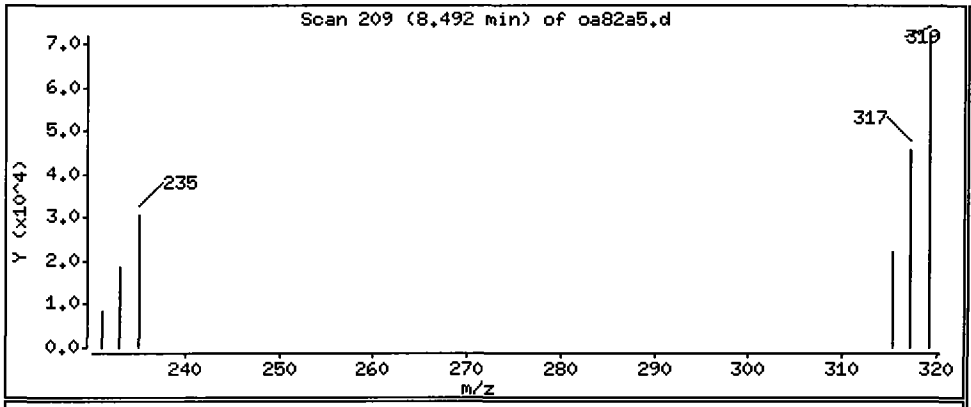
Operator: VTS

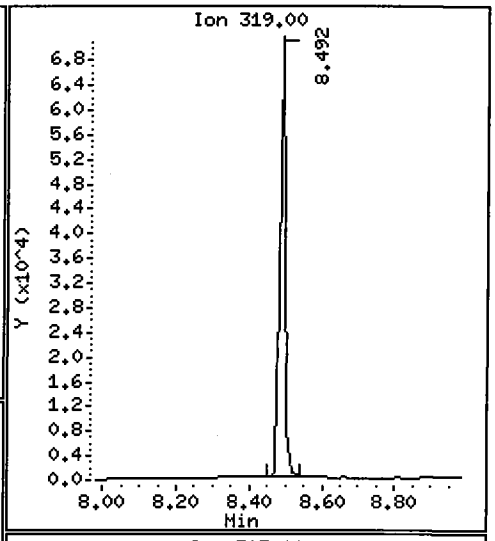
Column phase: ZB-5

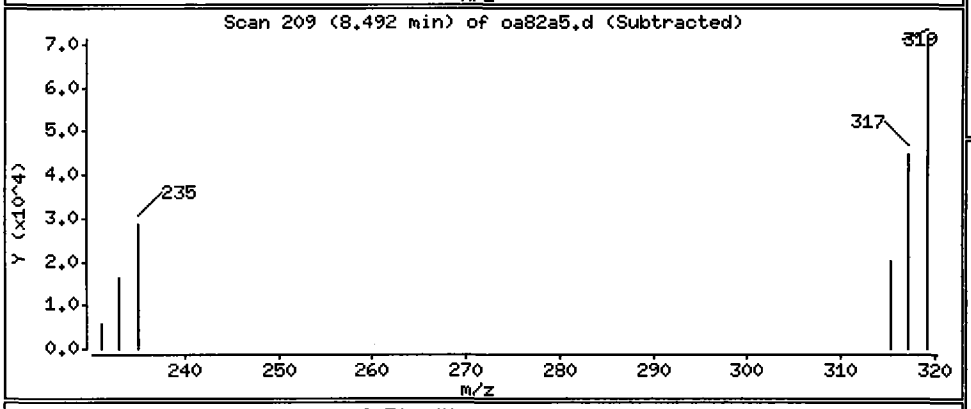
Column diameter: 0.25

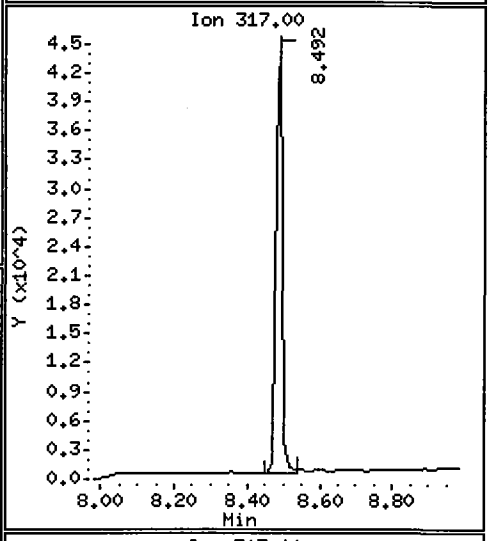
3 Tributyl Tin (Hexyl)

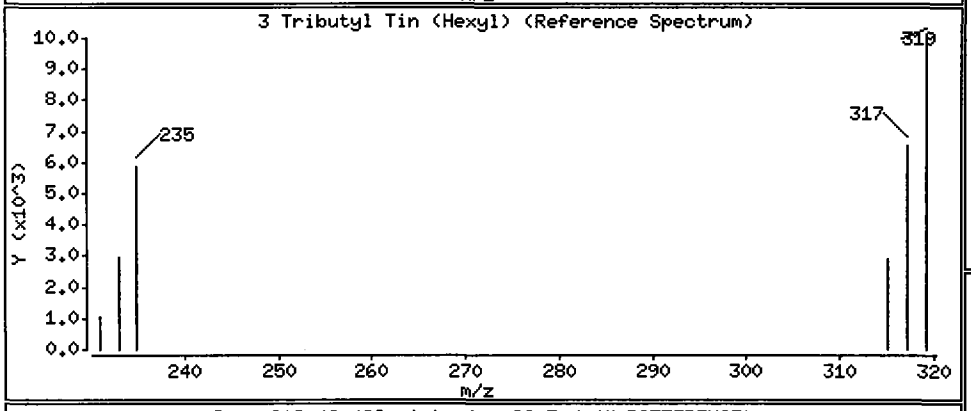
Concentration: 559.2 ug/kg

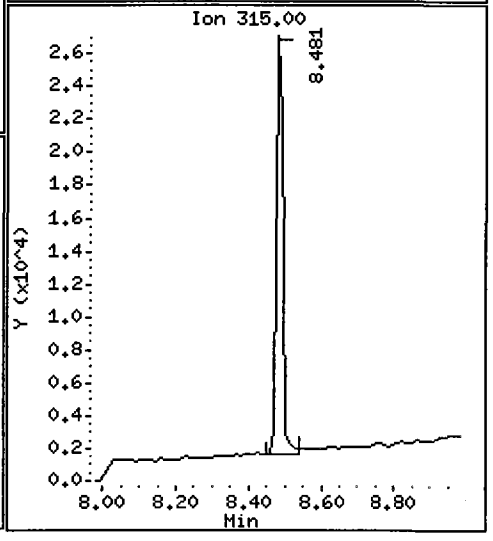


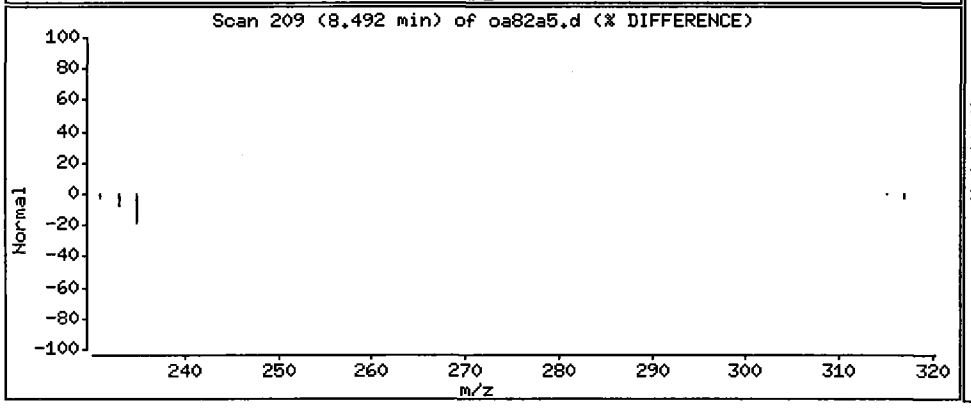












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: EB-SE-03-Z-081018 COMPOSITE DUPLICATE

Lab Sample ID: OA82A
LIMS ID: 08-31459
Matrix: Sediment
Data Release Authorized:
Reported: 12/03/08

QC Report No: OA82-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 11/20/08
Date Received: 11/20/08

Date Extracted: 11/25/08
Date Analyzed: 12/01/08 15:33
Instrument/Analyst: NT1/VTS
Silica Gel Cleanup: No

Sample Amount: 5.15 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 5.00
Alumina Cleanup: Yes
Moisture: 36.7%

CAS Number	Analyte	RL	Result	RPD
TBT_ION	**Tributyltin Ion**	**19**	**830**	63.5%

Reported in µg/kg (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	97.8%
Tripentyl Tin Chloride	113%

Analytical Resources, Inc.

Butyl Tins - GC/MS SIM

Data file : /chem3/nt1.i/20081201.b/oa82adp5.d
Lab Smp Id: OA82ADUP Client Smp ID: EB-SE-03-Z-0810 DUP
Inj Date : 01-DEC-2008 15:33
Operator : VTS Inst ID: nt1.i
Smp Info : OA82ADUP,5
Misc Info : 08-31459
Comment : 2 ul Injection
Method : /chem3/nt1.i/20081201.b/lowbts.m
Meth Date : 01-Dec-2008 13:11 yev Quant Type: ISTD
Cal Date : 26-JUL-2008 14:48 Cal File: ic0726f.d
Als bottle: 8 QC Sample: DUP
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: SED.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	500.00000	Effective Final Volume of extract (uL)
Ws	8.14000	Weight of sample extracted (g)
M	36.70000	Percent Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$	1 Tripropyl Tin (Hexyl)	291	7.508	7.507	(0.822)	9085	0.11522	55.90(R)
	2 Tetrabutyl Tin	289	Compound Not Detected.					
	3 Tributyl Tin (Hexyl)	319	8.494	8.481	(0.930)	150091	2.20032	1068
*	4 Tetrapentyl Tin	333	9.131	9.131	(1.000)	226311	2.00000	
	5 Dibutyl Tin (Hexyl)	347	9.171	9.172	(0.915)	39271	~~0.88~~087	427.4
$	6 Tripentyl Tin (Hexyl)	345	9.460	9.459	(0.944)	6375	0.12756	61.89(M)
	7 Butyl Tin (Hexyl)	347	9.795	9.794	(0.978)	10590	~~0.14~~805	71.83(M)
*	8 p-Terphenyl-d14	244	10.019	10.018	(1.000)	245914	0.20000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

VTS

12.2.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: oa82adp5.d
Lab Smp Id: OA82ADUP
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081201.b/lowbts.m
Misc Info: 08-31459

Calibration Date: 01-DEC-2008
Calibration Time: 12:20
Client Smp ID: EB-SE-03-Z-0810
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	181050	90525	362100	226311	25.00
8 p-Terphenyl-d14	194353	97176	388706	245914	26.53

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.13	8.63	9.63	9.13	-0.01
8 p-Terphenyl-d14	10.02	9.52	10.52	10.02	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: OA82ADUP
Level: LOW
Data Type: MS DATA
SpikeList File: TBTsed.spk
Sublist File: SED.sub
Method File: /chem3/nt1.i/20081201.b/lowbts.m
Misc Info: 08-31459

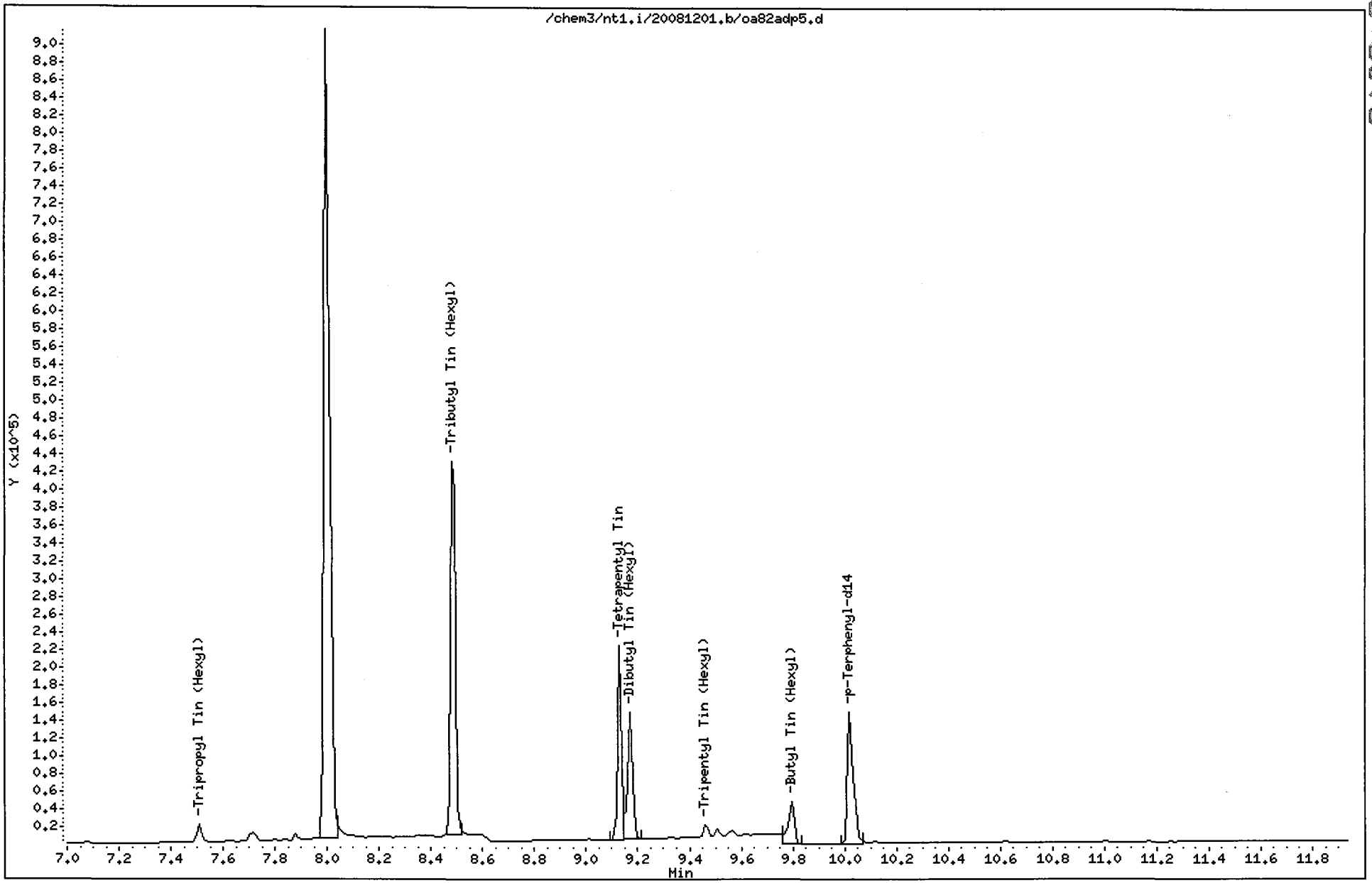
Client SDG: OA82
Fraction: SV
Client Smp ID: EB-SE-03-Z-0810 DUP
Operator: VTS
SampleType: DUP
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 Tripropyl Tin (Hex	48.52	55.90	115.22*	25-96
$ 6 Tripentyl Tin (Hex	48.52	61.89	127.56	30-136

Data File: /chem3/nt1.i/20081201.b/oa82adp5.d
Date : 01-DEC-2008 15:33
Client ID: EB-SE-03-Z-0810 DUP
Sample Info: OA82ADUP,5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



OA82:00059

Data File: /chem3/nt1.i/20081201.b/oa82adp5.d

Date : 01-DEC-2008 15:33

Client ID: EB-SE-03-Z-0810 DUP

Instrument: nt1.i

Sample Info: OA82ADUP,5

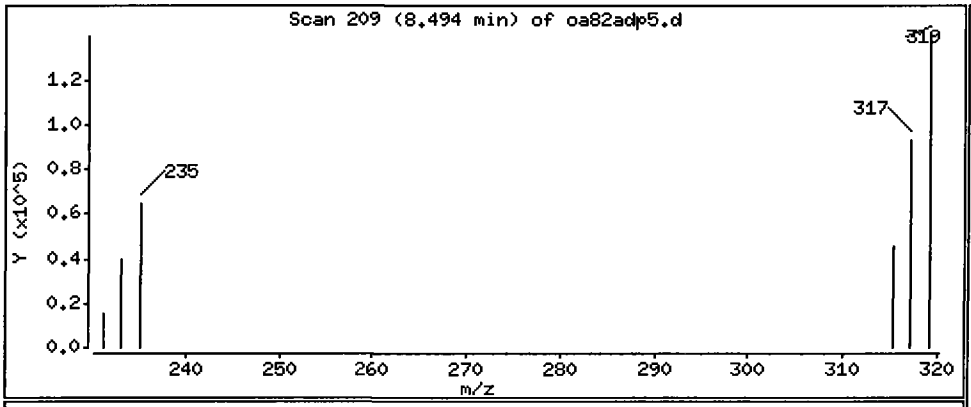
Operator: VTS

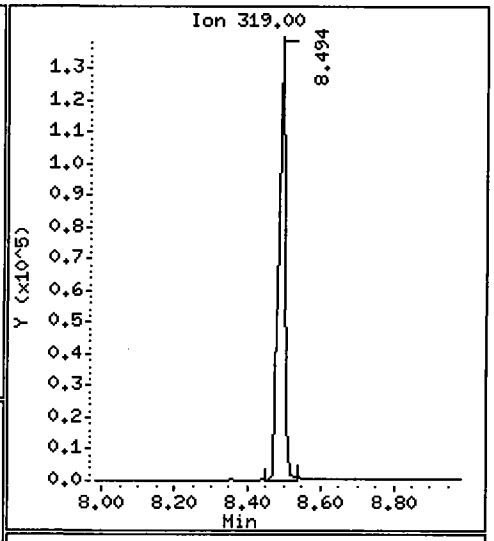
Column phase: ZB-5

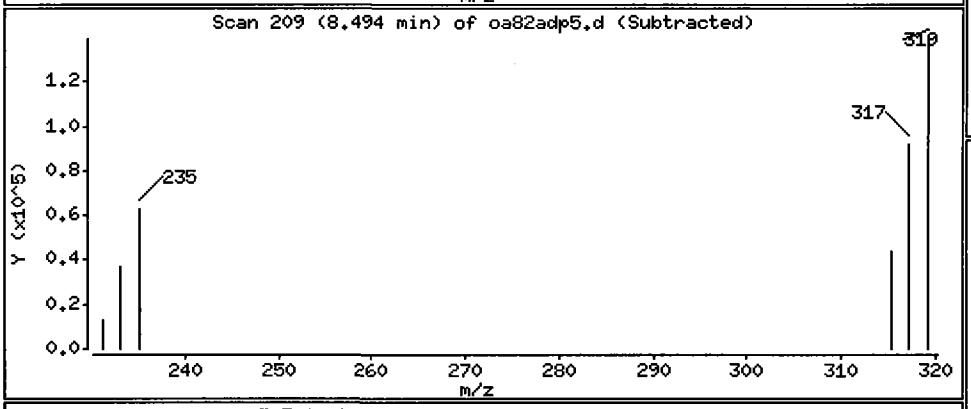
Column diameter: 0.25

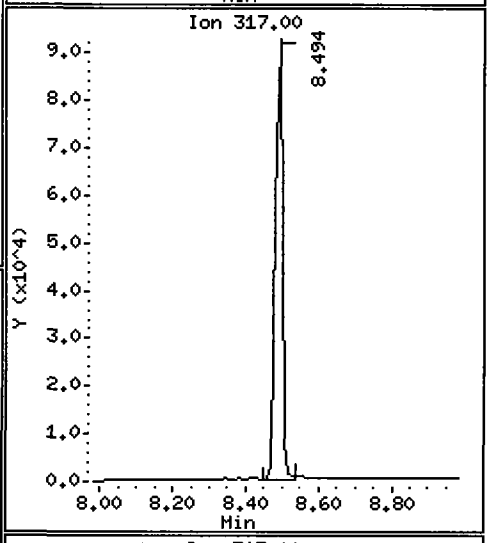
3 Tributyl Tin (Hexyl)

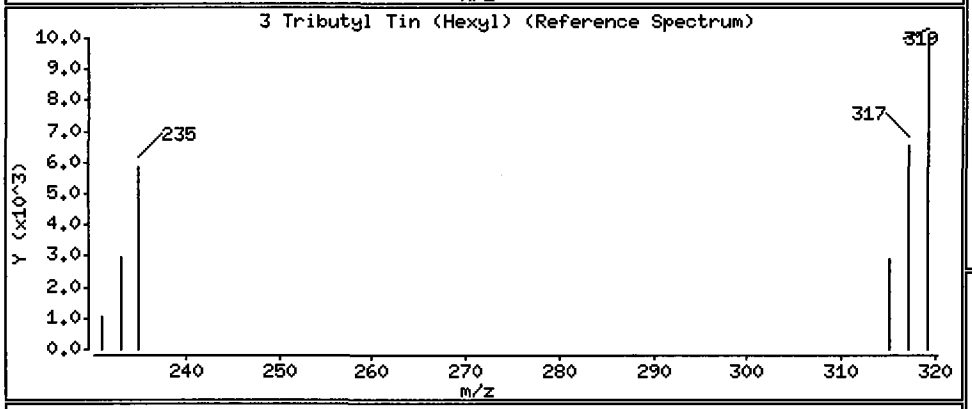
Concentration: 1068 ug/kg

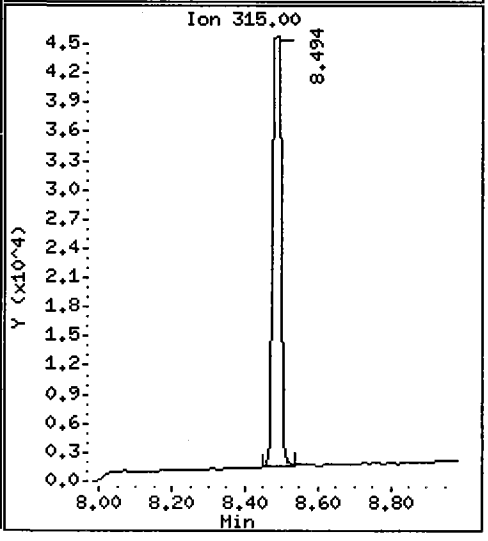


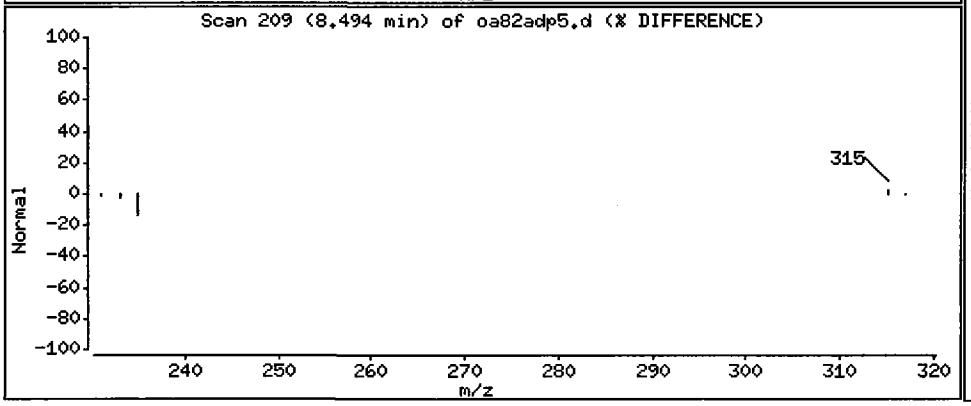












TBT Analysis
Standard Raw Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OA82

prepared
by

Analytical Resources, Inc.

6B

SEMIVOLATILE 8270-C INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: OA82 Project: EDDON BOATYARD

Instrument ID: NT1 Calibration Date: 07/26/08

LAB FILE ID: RRF0.05=IC0726C RRF0.2=IC0726E RRF0.5=IC0726A
RRF1 =IC0726F RRF2 =IC0726D RRF4 =IC0726B

COMPOUND	RRF 0.05	RRF 0.2	RRF 0.5	RRF 1	RRF 2	RRF 4	___ RRF	%RSD /R^2
Tributyl Tin (Hexyl)	0.567	0.614	0.656	0.617	0.588	0.574	0.603	5.5
Dibutyl Tin (Hexyl)	0.032	0.036	0.040	0.037	0.036	0.036	0.036	6.5
Butyl Tin (Hexyl)	0.055	0.057	0.062	0.059	0.058	0.057	0.058	4.4
Tetrabutyl Tin	0.625	0.680	0.723	0.705	0.673	0.642	0.675	5.5
Tripropyl Tin (Hexyl)	0.685	0.710	0.742	0.736	0.665	0.644	0.697	5.6
Tripentyl Tin (Hexyl)	0.038	0.040	0.044	0.041	0.040	0.041	0.041	4.4

* Compounds with maximum %RSD = 30%

~ Compounds with minimum average RRF = .05

<- Outside QC limits

FORM VI SV-1

Analytical Resources, Inc.

Butyl Tins - GC/MS SIM

Data file : /chem3/nt1.i/20080726A.b/ic0726a.d
Lab Smp Id: IC0726A
Inj Date : 26-JUL-2008 13:15
Operator : VTS Inst ID: nt1.i
Smp Info : IC0726A
Misc Info : TBT.5
Comment : 2 ul Injection
Method : /chem3/nt1.i/20080726A.b/lowbts.m
Meth Date : 29-Jul-2008 08:17 van Quant Type: ISTD
Cal Date : 26-JUL-2008 14:48 Cal File: ic0726f.d
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SED.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.920	7.920	(0.830)	34511	0.50000	0.5321
	2 Tetrabutyl Tin	289	8.129	8.129	(0.852)	33669	0.50000	0.5360
	3 Tributyl Tin (Hexyl)	319	8.901	8.901	(0.933)	30551	0.50000	0.5445
*	4 Tetrapentyl Tin	333	9.542	9.542	(1.000)	186163	2.00000	
	5 Dibutyl Tin (Hexyl)	347	9.596	9.596	(0.917)	43260	1.00000	1.093
$	6 Tripentyl Tin (Hexyl)	345	9.882	9.882	(0.944)	47603	1.00000	1.073
	7 Butyl Tin (Hexyl)	347	10.217	10.217	(0.976)	68015	1.00000	1.071
*	8 p-Terphenyl-d14	244	10.469	10.469	(1.000)	218239	0.20000	

VTS
7-29-2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic0726a.d
Lab Smp Id: IC0726A
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20080726A.b/lowbts.m
Misc Info: TBT.5

Calibration Date: 26-JUL-2008
Calibration Time: 13:15

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	186163	93082	372326	186163	0.00
8 p-Terphenyl-d14	218239	109120	436478	218239	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.54	9.04	10.04	9.54	0.00
8 p-Terphenyl-d14	10.47	9.97	10.97	10.47	0.00

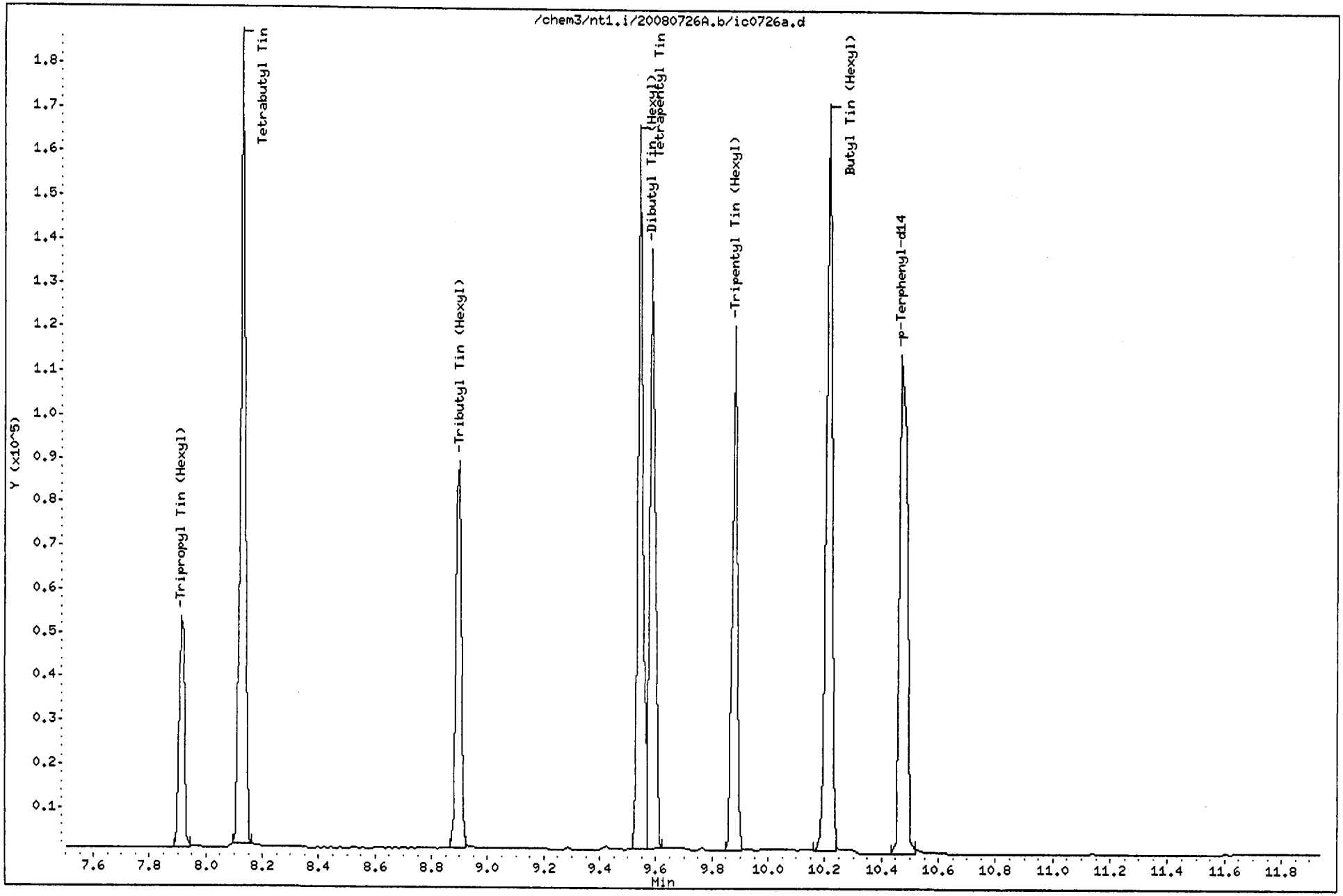
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20080726A.b/ic0726a.d
Date : 26-JUL-2008 13:15
Client ID:
Sample Info: IC0726A

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



Analytical Resources, Inc.

Butyl Tins - GC/MS SIM

Data file : /chem3/nt1.i/20080726A.b/ic0726b.d
Lab Smp Id: IC0726B
Inj Date : 26-JUL-2008 13:33
Operator : VTS Inst ID: nt1.i
Smp Info : IC0726B
Misc Info : TBT4
Comment : 2 ul Injection
Method : /chem3/nt1.i/20080726A.b/lowbts.m
Meth Date : 29-Jul-2008 08:17 van Quant Type: ISTD
Cal Date : 26-JUL-2008 14:48 Cal File: ic0726f.d
Als bottle: 3 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SED.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.911	7.920	(0.829)	268475	4.00000	3.695
	2 Tetrabutyl Tin	289	8.131	8.129	(0.852)	267661	4.00000	3.804
	3 Tributyl Tin (Hexyl)	319	8.901	8.901	(0.933)	239500	4.00000	3.810
*	4 Tetrapentyl Tin	333	9.544	9.542	(1.000)	208535	2.00000	
	5 Dibutyl Tin (Hexyl)	347	9.597	9.596	(0.917)	319635	8.00000	8.027
$	6 Tripentyl Tin (Hexyl)	345	9.883	9.882	(0.944)	358518	8.00000	8.031
	7 Butyl Tin (Hexyl)	347	10.219	10.217	(0.976)	503797	8.00000	7.886
*	8 p-Terphenyl-d14	244	10.469	10.469	(1.000)	219645	0.20000	

VTS
7.29.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic0726b.d
Lab Smp Id: IC0726B
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20080726A.b/lowbts.m
Misc Info: TBT4

Calibration Date: 26-JUL-2008
Calibration Time: 13:15
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	186163	93082	372326	208535	12.02
8 p-Terphenyl-d14	218239	109120	436478	219645	0.64

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.54	9.04	10.04	9.54	0.01
8 p-Terphenyl-d14	10.47	9.97	10.97	10.47	0.00

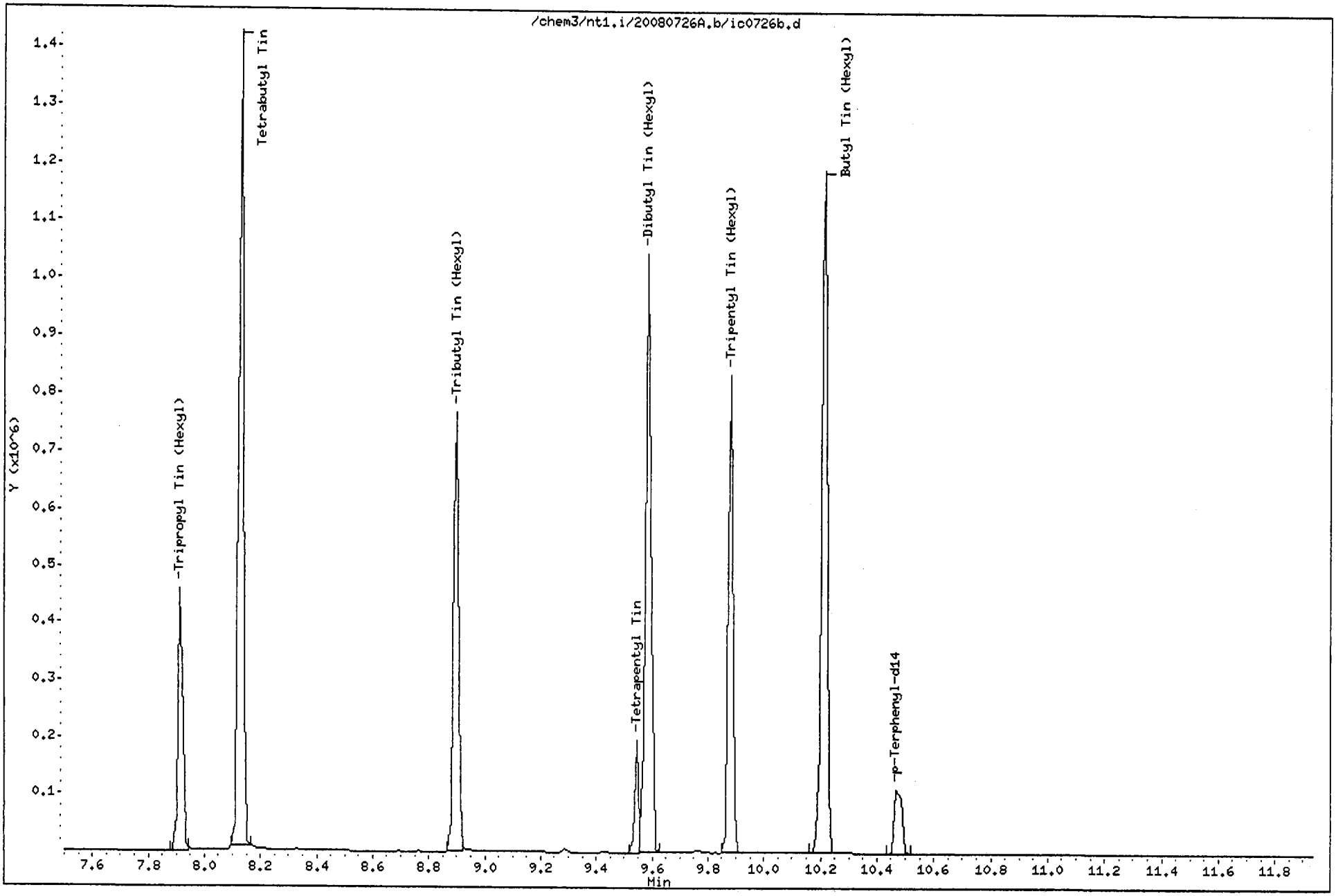
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20080726A.b/ic0726b.d
Date : 26-JUL-2008 13:33
Client ID:
Sample Info: IC0726B

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



Analytical Resources, Inc.

Butyl Tins - GC/MS SIM

Data file : /chem3/nt1.i/20080726A.b/ic0726c.d
Lab Smp Id: IC0726C
Inj Date : 26-JUL-2008 13:52
Operator : VTS Inst ID: nt1.i
Smp Info : IC0726C
Misc Info : TBT.05
Comment : 2 ul Injection
Method : /chem3/nt1.i/20080726A.b/lowbts.m
Meth Date : 29-Jul-2008 08:17 van Quant Type: ISTD
Cal Date : 26-JUL-2008 14:48 Cal File: ic0726f.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SED.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.912	7.920	(0.829)	3031	0.05000	0.04912
	2 Tetrabutyl Tin	289	8.132	8.129	(0.852)	2769	0.05000	0.04634
	3 Tributyl Tin (Hexyl)	319	8.900	8.901	(0.933)	2512	0.05000	0.04706
*	4 Tetrapentyl Tin	333	9.543	9.542	(1.000)	177095	2.00000	
	5 Dibutyl Tin (Hexyl)	347	9.597	9.596	(0.917)	3396	0.10000	0.08893
$	6 Tripentyl Tin (Hexyl)	345	9.883	9.882	(0.944)	4008	0.10000	0.09361
	7 Butyl Tin (Hexyl)	347	10.218	10.217	(0.976)	5789	0.10000	0.09448
*	8 p-Terphenyl-d14	244	10.470	10.469	(1.000)	210652	0.20000	

VTS
7.29.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic0726c.d
Lab Smp Id: IC0726C
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20080726A.b/lowbts.m
Misc Info: TBT.05

Calibration Date: 26-JUL-2008
Calibration Time: 13:15

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	186163	93082	372326	177095	-4.87
8 p-Terphenyl-d14	218239	109120	436478	210652	-3.48

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.54	9.04	10.04	9.54	0.01
8 p-Terphenyl-d14	10.47	9.97	10.97	10.47	0.01

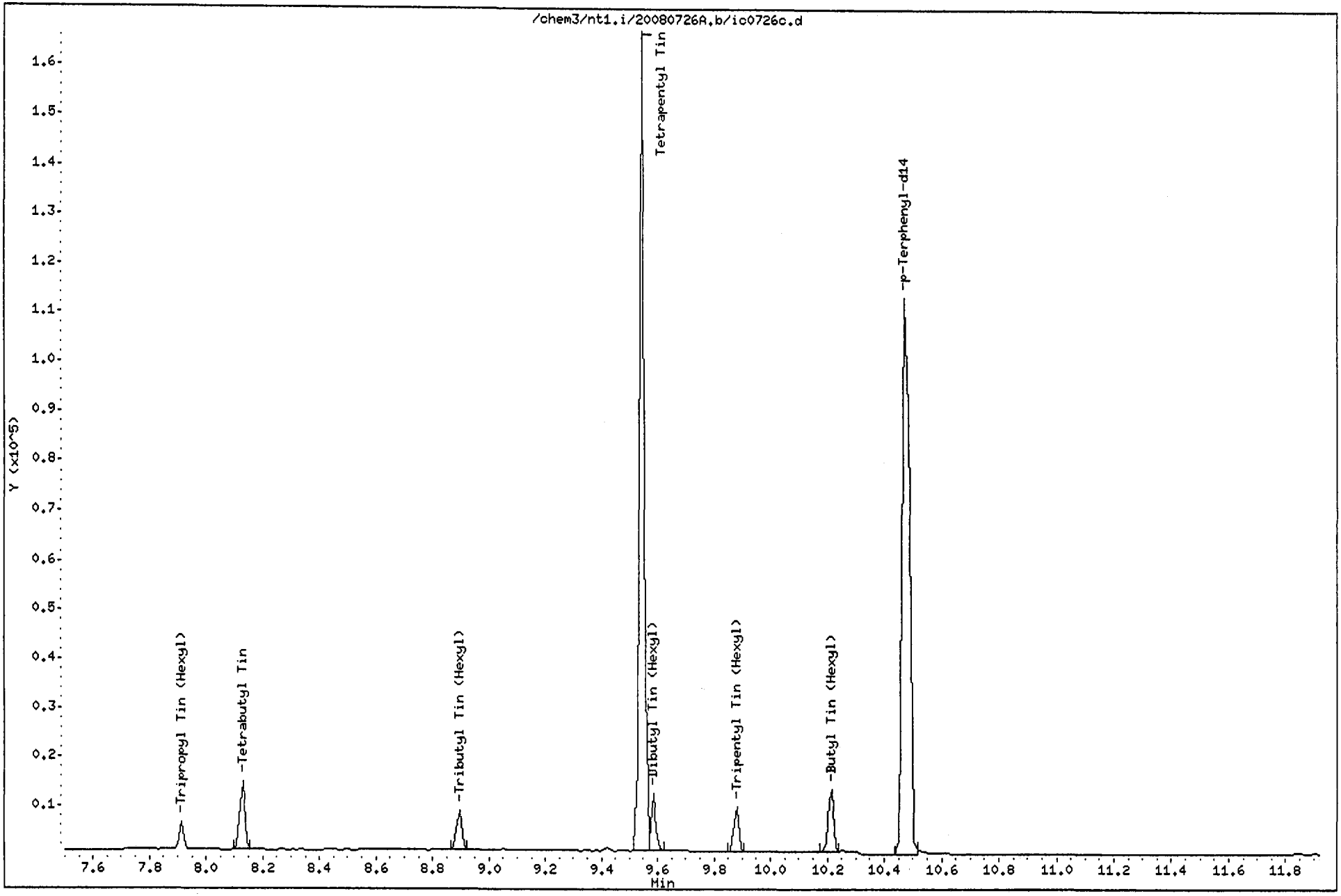
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20080726A.b/ic0726c.d
Date : 26-JUL-2008 13:52
Client ID:
Sample Info: IC0726C

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



Analytical Resources, Inc.

Butyl Tins - GC/MS SIM

Data file : /chem3/nt1.i/20080726A.b/ic0726d.d
Lab Smp Id: IC0726D
Inj Date : 26-JUL-2008 14:11
Operator : VTS Inst ID: nt1.i
Smp Info : IC0726D
Misc Info : TBT2
Comment : 2 ul Injection
Method : /chem3/nt1.i/20080726A.b/lowbts.m
Meth Date : 29-Jul-2008 08:17 van Quant Type: ISTD
Cal Date : 26-JUL-2008 14:48 Cal File: ic0726f.d
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SED.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.911	7.920	(0.829)	134481	2.00000	1.908
	2 Tetrabutyl Tin	289	8.131	8.129	(0.852)	136088	2.00000	1.994
	3 Tributyl Tin (Hexyl)	319	8.901	8.901	(0.933)	118898	2.00000	1.950
*	4 Tetrapentyl Tin	333	9.543	9.542	(1.000)	202249	2.00000	
	5 Dibutyl Tin (Hexyl)	347	9.584	9.596	(0.914)	159748	4.00000	3.976
$	6 Tripentyl Tin (Hexyl)	345	9.883	9.882	(0.943)	179485	4.00000	3.984
	7 Butyl Tin (Hexyl)	347	10.219	10.217	(0.975)	258678	4.00000	4.013
*	8 p-Terphenyl-d14	244	10.485	10.469	(1.000)	221636	0.20000	

VTS
7-29-2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic0726d.d
Lab Smp Id: IC0726D
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20080726A.b/lowbts.m
Misc Info: TBT2

Calibration Date: 26-JUL-2008
Calibration Time: 13:15
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	186163	93082	372326	202249	8.64
8 p-Terphenyl-d14	218239	109120	436478	221636	1.56

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.54	9.04	10.04	9.54	0.01
8 p-Terphenyl-d14	10.47	9.97	10.97	10.49	0.16

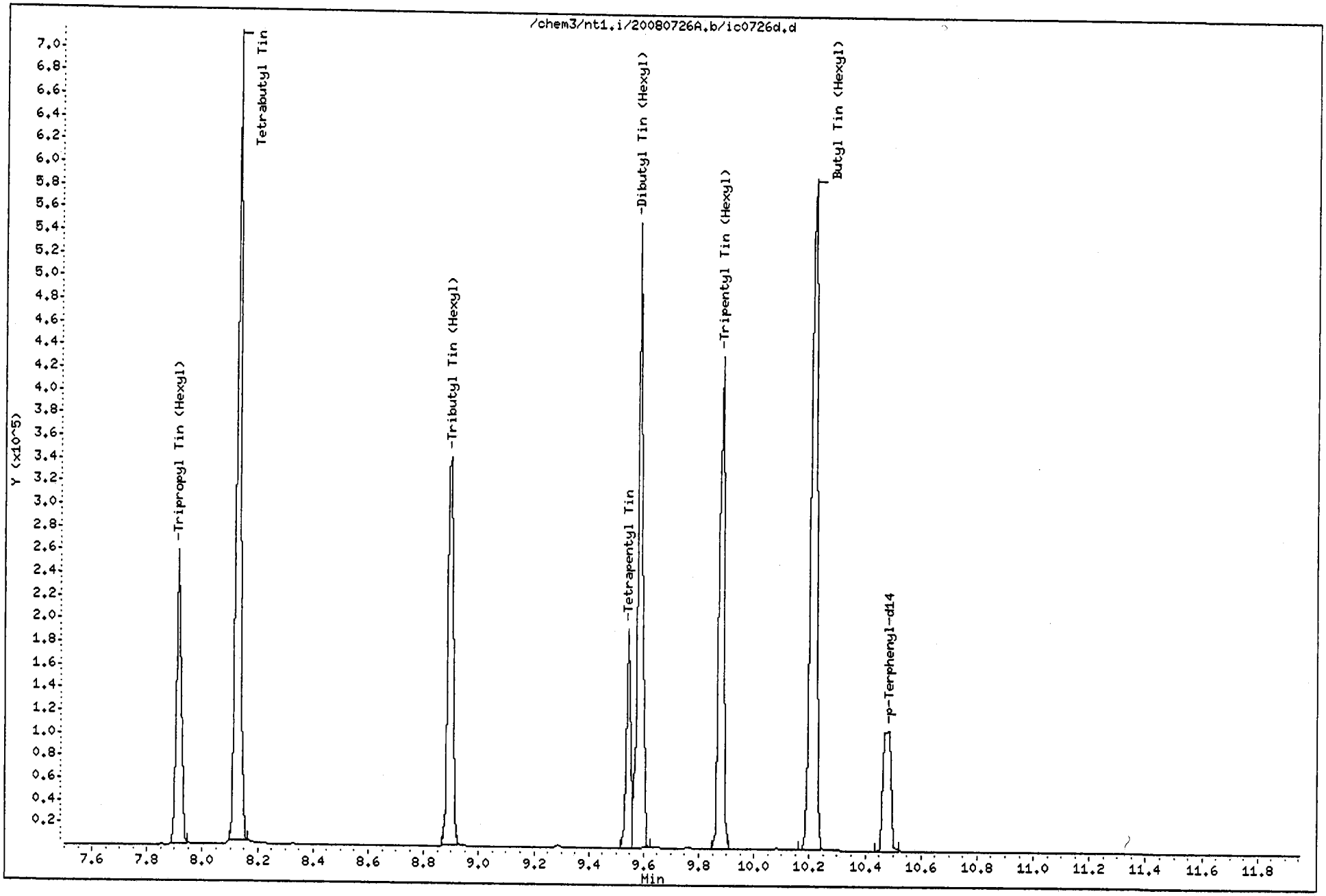
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20080726A.b/ic0726d.d
Date : 26-JUL-2008 14:11
Client ID:
Sample Info: IC0726D

Column phase: ZB-5

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25



Analytical Resources, Inc.

Butyl Tins - GC/MS SIM

Data file : /chem3/nt1.i/20080726A.b/ic0726e.d
Lab Smp Id: IC0726E
Inj Date : 26-JUL-2008 14:30
Operator : VTS
Inst ID: nt1.i
Smp Info : IC0726E
Misc Info : TBT.2
Comment : 2 ul Injection
Method : /chem3/nt1.i/20080726A.b/lowbts.m
Meth Date : 29-Jul-2008 08:17 van
Quant Type: ISTD
Cal Date : 26-JUL-2008 14:48
Cal File: ic0726f.d
Als bottle: 6
Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: SED.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.920	7.920	(0.830)	12726	0.20000	0.2039
	2 Tetrabutyl Tin	289	8.128	8.129	(0.852)	12189	0.20000	0.2016
	3 Tributyl Tin (Hexyl)	319	8.901	8.901	(0.933)	10993	0.20000	0.2036
*	4 Tetrapentyl Tin	333	9.542	9.542	(1.000)	179160	2.00000	
	5 Dibutyl Tin (Hexyl)	347	9.596	9.596	(0.917)	15340	0.40000	0.4006
$	6 Tripentyl Tin (Hexyl)	345	9.882	9.882	(0.944)	17001	0.40000	0.3960
	7 Butyl Tin (Hexyl)	347	10.217	10.217	(0.976)	23915	0.40000	0.3893
*	8 p-Terphenyl-d14	244	10.469	10.469	(1.000)	211213	0.20000	

VTS
7-29-2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic0726e.d
Lab Smp Id: IC0726E
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20080726A.b/lowbts.m
Misc Info: TBT.2

Calibration Date: 26-JUL-2008
Calibration Time: 13:15

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	186163	93082	372326	179160	-3.76
8 p-Terphenyl-d14	218239	109120	436478	211213	-3.22

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.54	9.04	10.04	9.54	0.00
8 p-Terphenyl-d14	10.47	9.97	10.97	10.47	0.00

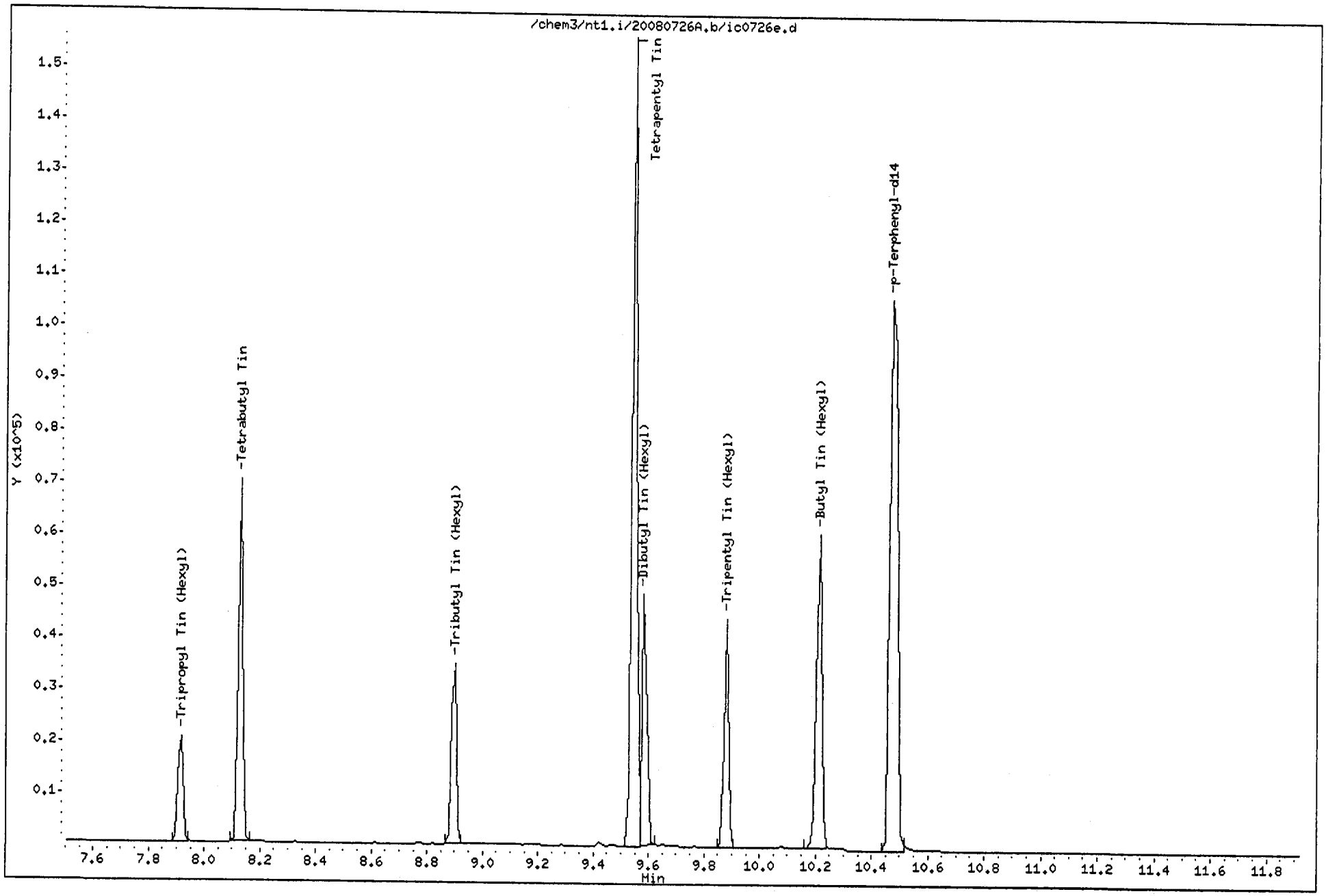
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20080726A.b/ic0726e.d
Date : 26-JUL-2008 14:30
Client ID:
Sample Info: IC0726E

Column phase: ZB-5

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25



Analytical Resources, Inc.

Butyl Tins - GC/MS SIM

Data file : /chem3/nt1.i/20080726A.b/ic0726f.d
Lab Smp Id: IC0726F
Inj Date : 26-JUL-2008 14:48
Operator : VTS Inst ID: nt1.i
Smp Info : IC0726F
Misc Info : TBT1
Comment : 2 ul Injection
Method : /chem3/nt1.i/20080726A.b/lowbts.m
Meth Date : 29-Jul-2008 08:17 van Quant Type: ISTD
Cal Date : 26-JUL-2008 14:48 Cal File: ic0726f.d
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SED.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.920	7.920	(0.830)	70103	1.00000	1.056
	2 Tetrabutyl Tin	289	8.128	8.129	(0.852)	67193	1.00000	1.045
	3 Tributyl Tin (Hexyl)	319	8.900	8.901	(0.933)	58827	1.00000	1.024
*	4 Tetrapentyl Tin	333	9.543	9.542	(1.000)	190552	2.00000	
	5 Dibutyl Tin (Hexyl)	347	9.597	9.596	(0.917)	81761	2.00000	2.037
$	6 Tripentyl Tin (Hexyl)	345	9.883	9.882	(0.944)	90054	2.00000	2.001
	7 Butyl Tin (Hexyl)	347	10.219	10.217	(0.976)	131594	2.00000	2.043
*	8 p-Terphenyl-d14	244	10.469	10.469	(1.000)	221398	0.20000	

VR
7.29.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic0726f.d
Lab Smp Id: IC0726F
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20080726A.b/lowbts.m
Misc Info: TBT1

Calibration Date: 26-JUL-2008
Calibration Time: 13:15

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	186163	93082	372326	190552	2.36
8 p-Terphenyl-d14	218239	109120	436478	221398	1.45

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.54	9.04	10.04	9.54	0.01
8 p-Terphenyl-d14	10.47	9.97	10.97	10.47	0.00

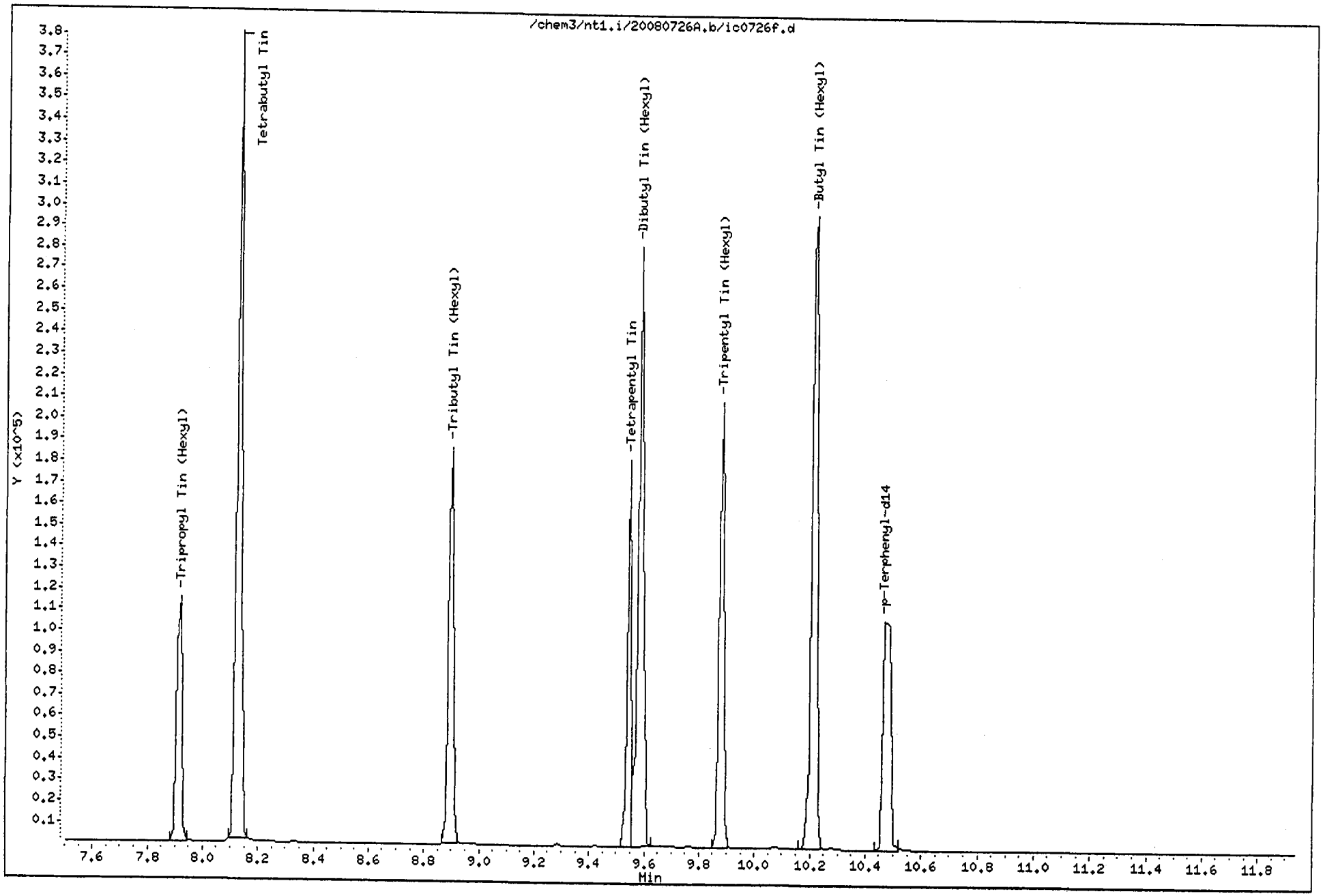
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20080726A.b/ic0726f.d
Date : 26-JUL-2008 14:48
Client ID:
Sample Info: IC0726F

Column phase: ZB-5

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25



Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUL-2008 13:15
End Cal Date : 26-JUL-2008 14:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt1.i/20080726A.b/lowbts.m
Cal Date : 26-Jul-2008 15:15 van
Curve Type : Average

Calibration File Names:
Level 1: /chem3/nt1.i/20080726A.b/ic0726c.d
Level 2: /chem3/nt1.i/20080726A.b/ic0726e.d
Level 3: /chem3/nt1.i/20080726A.b/ic0726a.d
Level 4: /chem3/nt1.i/20080726A.b/ic0726f.d
Level 5: /chem3/nt1.i/20080726A.b/ic0726d.d
Level 6: /chem3/nt1.i/20080726A.b/ic0726b.d

Compound	0.05000 Level 1	0.20000 Level 2	0.50000 Level 3	1.000 Level 4	2.000 Level 5	4.000 Level 6	___ RRF	% RSD
2 Tetrabutyl Tin	0.62543	0.68034	0.72343	0.70525	0.67287	0.64177	0.67485	5.487
3 Tributyl Tin (Hexyl)	0.56738	0.61359	0.65644	0.61744	0.58788	0.57424	0.60283	5.502
5 Dibutyl Tin (Hexyl)	0.03224	0.03631	0.03964	0.03693	0.03604	0.03638	0.03626	6.539
7 Butyl Tin (Hexyl)	0.05496	0.05661	0.06233	0.05944	0.05836	0.05734	0.05817	4.372
$ 1 Tripropyl Tin (Hexyl)	0.68460	0.71031	0.74152	0.73579	0.66493	0.64372	0.69681	5.626
$ 6 Tripentyl Tin (Hexyl)	0.03805	0.04025	0.04362	0.04068	0.04049	0.04081	0.04065	4.374

7B

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: OA82 Project: EDDON BOATYARD

Instrument ID: NT1 Cont. Calib. Date: 11/29/08

Init. Calib. Date: 07/26/08 Cont. Calib. Time: 1040

COMPOUND	$\overline{RRF}$	RRF0.5	MIN RRF	%D	MAX %D
Tributyl Tin (Hexyl)	0.603	0.658	0.100	-9.1	
Dibutyl Tin (Hexyl)	0.036	0.041	0.100	-13.9	
Butyl Tin (Hexyl)	0.058	0.074	0.100	-27.6	
Tetrabutyl Tin	0.675	0.750	0.100	-11.1	
Tripropyl Tin (Hexyl)	0.697	0.787	0.100	-12.9	
Tripentyl Tin (Hexyl)	0.041	0.046	0.100	-12.2	

<- Outside QC limits

FORM VII SV-1

Analytical Resources, Inc.

Butyl Tins - GC/MS SIM

Data file : /chem3/nt1.i/20081129.b/cc1129.d
Lab Smp Id: CC1129
Inj Date : 29-NOV-2008 10:40
Operator : VTS Inst ID: nt1.i
Smp Info : CC1129
Misc Info :
Comment : 2 ul Injection
Method : /chem3/nt1.i/20081129.b/lowbts.m
Meth Date : 29-Nov-2008 11:07 van Quant Type: ISTD
Cal Date : 26-JUL-2008 14:48 Cal File: ic0726f.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SED.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.497	7.497	(0.822)	34816	0.50000	0.5647
	2 Tetrabutyl Tin	289	7.705	7.705	(0.845)	33198	0.50000	0.5560
	3 Tributyl Tin (Hexyl)	319	8.481	8.481	(0.930)	29106	0.50000	0.5457
*	4 Tetrapentyl Tin	333	9.118	9.118	(1.000)	176954	2.00000	
	5 Dibutyl Tin (Hexyl)	347	9.172	9.172	(0.915)	37865	1.00000	1.135
$	6 Tripentyl Tin (Hexyl)	345	9.449	9.449	(0.943)	42619	1.00000	1.140
	7 Butyl Tin (Hexyl)	347	9.784	9.784	(0.976)	68576	1.00000	1.281
*	8 p-Terphenyl-d14	244	10.020	10.020	(1.000)	183984	0.20000	

VTS
11.29.08

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: cc1129.d
Lab Smp Id: CC1129
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081129.b/lowbts.m
Misc Info:

Calibration Date: 29-NOV-2008
Calibration Time: 09:51

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	170129	85064	340258	176954	4.01
8 p-Terphenyl-d14	171974	85987	343948	183984	6.98

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.12	8.62	9.62	9.12	0.00
8 p-Terphenyl-d14	10.02	9.52	10.52	10.02	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt1.i Injection Date: 29-NOV-2008 10:40
Lab File ID: cc1129.d Init. Cal. Date(s): 26-JUL-2008 26-JUL-2008
Analysis Type: Init. Cal. Times: 13:15 14:48
Lab Sample ID: CC1129 Quant Type: ISTD
Method: /chem3/nt1.i/20081129.b/lowbts.m

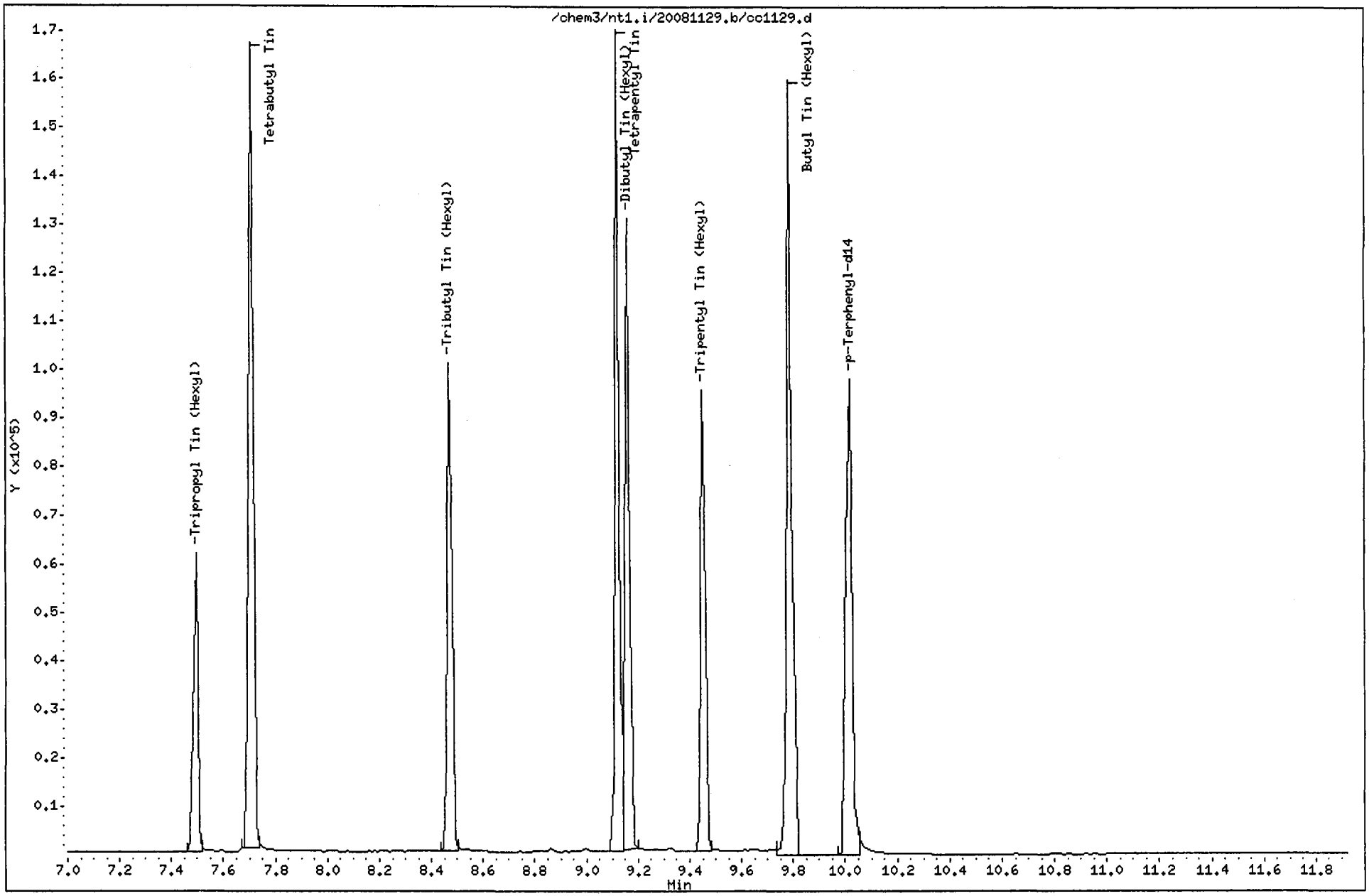
COMPOUND	RRF / AMOUNT	RF0.500	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 Tripropyl Tin (Hexyl)	0.69681	0.78701	0.005	-12.94423	25.00000	Averaged	
2 Tetrabutyl Tin	0.67485	0.75044	0.010	-11.20133	25.00000	Averaged	
3 Tributyl Tin (Hexyl)	0.60283	0.65793	0.005	-9.14110	25.00000	Averaged	
5 Dibutyl Tin (Hexyl)	0.03626	0.04116	0.005	-13.52245	25.00000	Averaged	
$ 6 Tripentyl Tin (Hexyl)	0.04065	0.04633	0.010	-13.97396	25.00000	Averaged	
7 Butyl Tin (Hexyl)	0.05817	0.07455	0.005	-28.14409	25.00000	Averaged	<-

Data File: /chem3/nt1.i/20081129.b/cc1129.d
Date : 29-NOV-2008 10:40
Client ID:
Sample Info: CC1129

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



7B

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: OA82 Project: EDDON BOATYARD

Instrument ID: NT1 Cont. Calib. Date: 12/01/08

Init. Calib. Date: 07/26/08 Cont. Calib. Time: 1220

COMPOUND	$\overline{RRF}$	RRF0.5	MIN RRF	%D	MAX %D
Tributyl Tin (Hexyl)	0.603	0.643	0.100	-6.6	
Dibutyl Tin (Hexyl)	0.036	0.041	0.100	-13.9	
Butyl Tin (Hexyl)	0.058	0.052	0.100	10.3	
Tetrabutyl Tin	0.675	0.711	0.100	-5.3	
Tripropyl Tin (Hexyl)	0.697	0.733	0.100	-5.2	
Tripentyl Tin (Hexyl)	0.041	0.045	0.100	-9.8	

<- Outside QC limits

FORM VII SV-1

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt1.i Injection Date: 01-DEC-2008 12:20
Lab File ID: cc1201.d Init. Cal. Date(s): 26-JUL-2008 26-JUL-2008
Analysis Type: Init. Cal. Times: 13:15 14:48
Lab Sample ID: CC1201 Quant Type: ISTD
Method: /chem3/nt1.i/20081201.b/lowbts.m

COMPOUND	RRF / AMOUNT	RF0.500	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tripropyl Tin (Hexyl)	0.69681	0.73308	0.005	-5.20463	25.00000	Averaged
2 Tetrabutyl Tin	0.67485	0.71074	0.010	-5.31831	25.00000	Averaged
3 Tributyl Tin (Hexyl)	0.60283	0.64293	0.005	-6.65308	25.00000	Averaged
5 Dibutyl Tin (Hexyl)	0.03626	0.04061	0.005	-12.01181	25.00000	Averaged
$ 6 Tripentyl Tin (Hexyl)	0.04065	0.04516	0.010	-11.10120	25.00000	Averaged
7 Butyl Tin (Hexyl)	0.05817	0.05259	0.005	9.59694	25.00000	Averaged

YZ 4/1/08

Analytical Resources, Inc.

Butyl Tins - GC/MS SIM

Data file : /chem3/nt1.i/20081201.b/cc1201.d
Lab Smp Id: CC1201
Inj Date : 01-DEC-2008 12:20
Operator : VTS Inst ID: nt1.i
Smp Info : CC1201
Misc Info :
Comment : 2 ul Injection
Method : /chem3/nt1.i/20081201.b/lowbts.m
Meth Date : 01-Dec-2008 13:11 yev Quant Type: ISTD
Cal Date : 26-JUL-2008 14:48 Cal File: ic0726f.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SED.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.507	7.507	(0.822)	33181	0.50000	0.5260
	2 Tetrabutyl Tin	289	7.727	7.727	(0.846)	32169	0.50000	0.5266
	3 Tributyl Tin (Hexyl)	319	8.481	8.481	(0.929)	29100	0.50000	0.5333
*	4 Tetrapentyl Tin	333	9.131	9.131	(1.000)	181050	2.00000	
	5 Dibutyl Tin (Hexyl)	347	9.172	9.172	(0.916)	39466	1.00000	1.120
$	6 Tripentyl Tin (Hexyl)	345	9.459	9.459	(0.944)	43886	1.00000	1.111
	7 Butyl Tin (Hexyl)	347	9.794	9.794	(0.978)	51106	1.00000	0.9040
*	8 p-Terphenyl-d14	244	10.018	10.018	(1.000)	194353	0.20000	

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: cc1201.d
Lab Smp Id: CC1201
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081201.b/lowbts.m
Misc Info:

Calibration Date: 01-DEC-2008
Calibration Time: 12:20
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	181050	90525	362100	181050	0.00
8 p-Terphenyl-d14	194353	97176	388706	194353	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.13	8.63	9.63	9.13	0.00
8 p-Terphenyl-d14	10.02	9.52	10.52	10.02	0.00

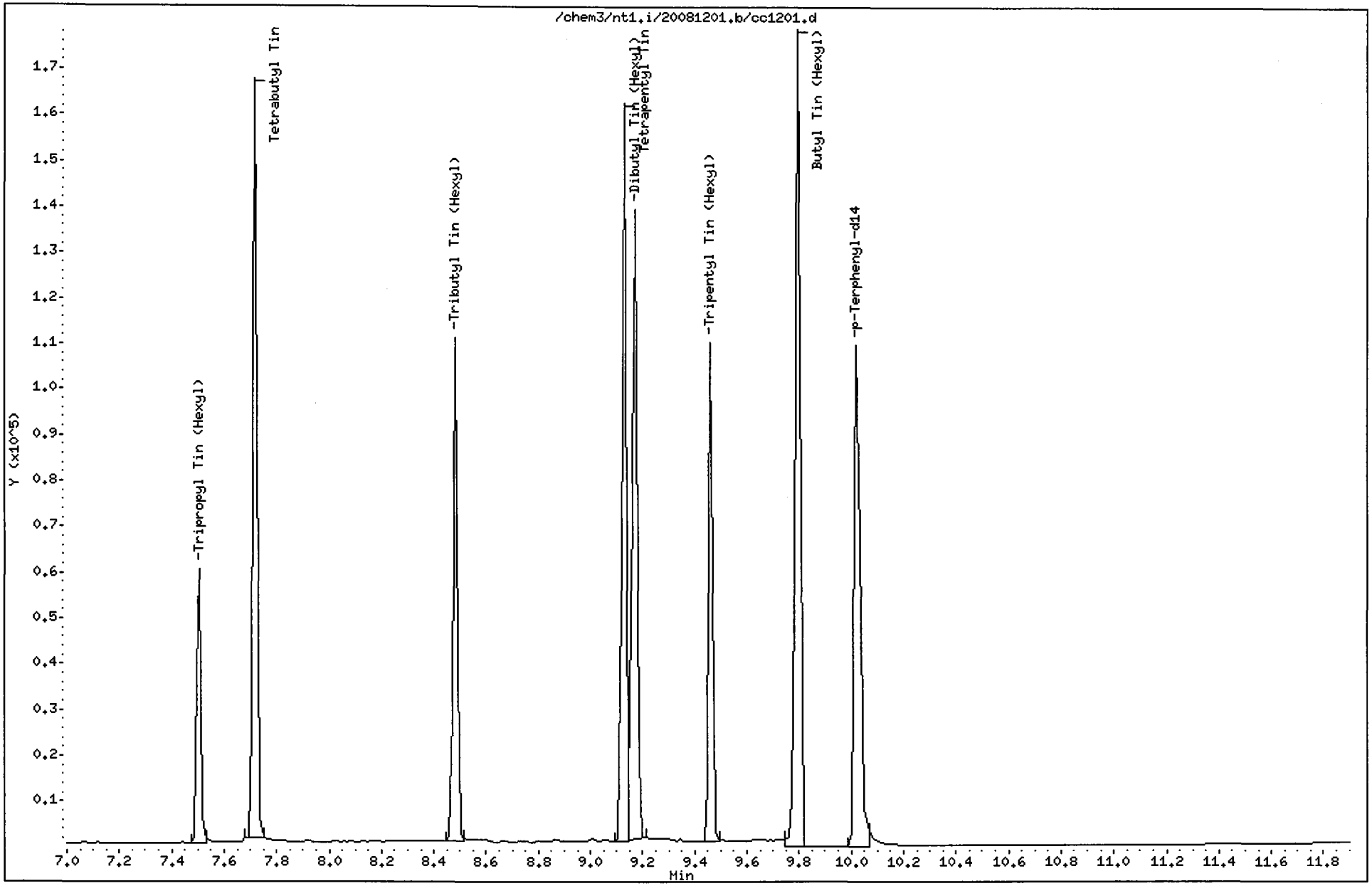
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20081201.b/cc1201.d
Date : 01-DEC-2008 12:20
Client ID:
Sample Info: CC1201

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



TBT Analysis
QC Raw Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OA82

prepared
by

Analytical Resources, Inc.

Data File: /chem3/nt1.i/20080726A.b/df0726.d

Date : 26-JUL-2008 12:56

Client ID:

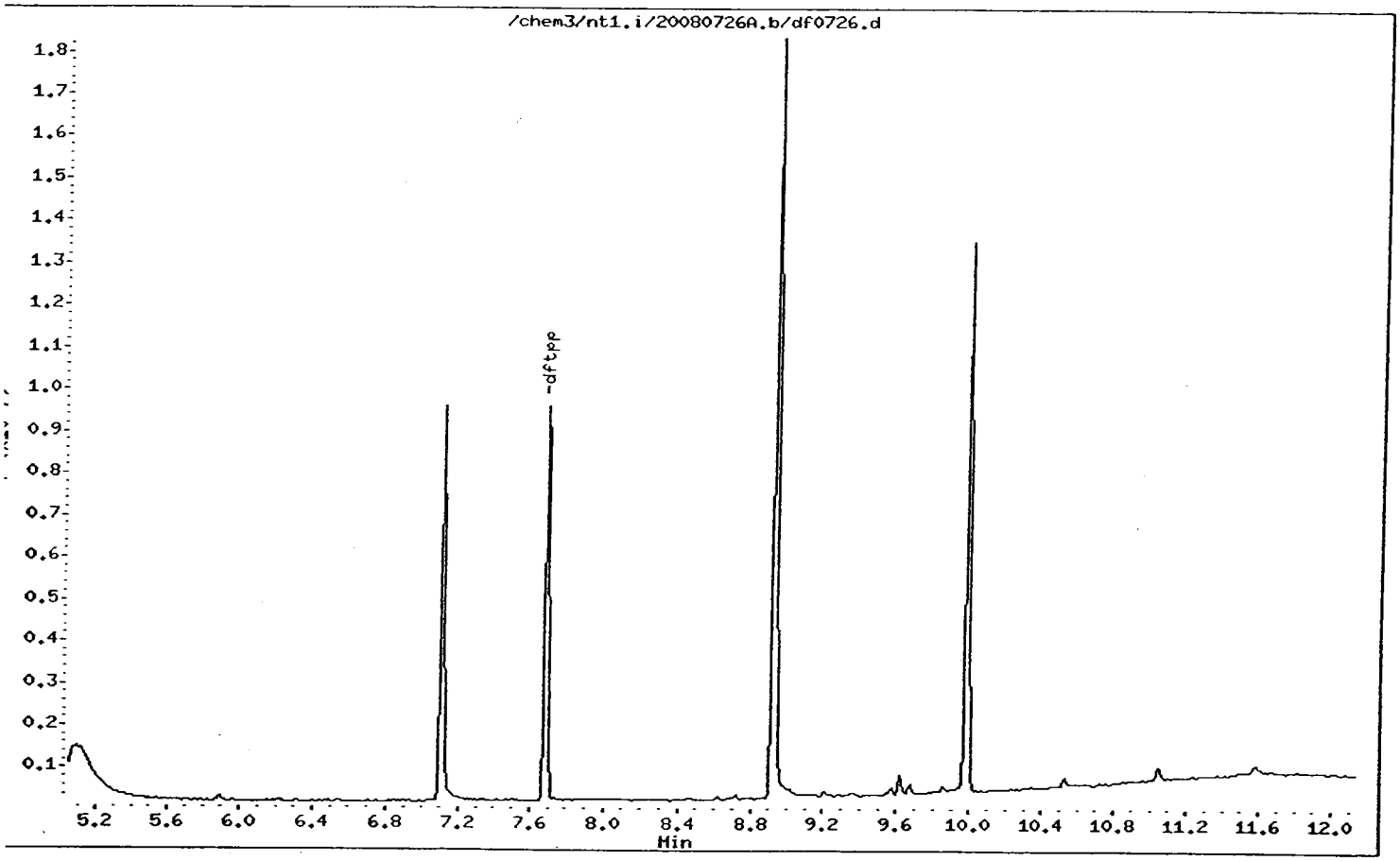
Instrument: nt1.i

Sample Info: DF0726

Operator: VTS

Column phase:

Column diameter: 0.25



Data File: /chem3/nt1.i/20080726A.b/df0726.d

Date : 26-JUL-2008 12:56

Client ID:

Sample Info: DF0726

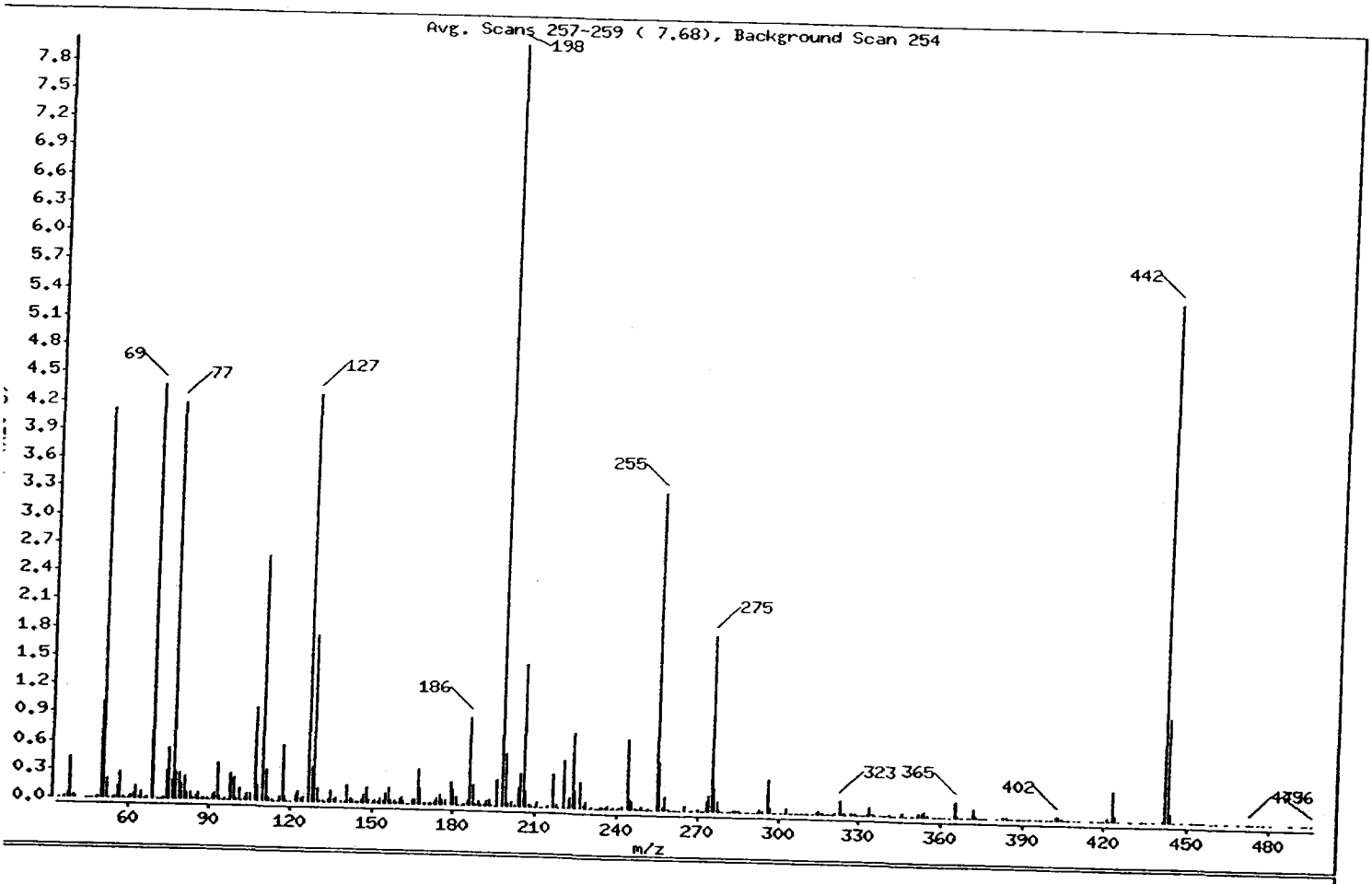
Instrument: nt1.i

Operator: VTS

Column phase:

1 dftpp

Column diameter: 0.25



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	51.32
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	54.50
70	Less than 2.00% of mass 69	0.00 (0.00)
127	25.00 - 75.00% of mass 198	53.61
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.81
275	10.00 - 30.00% of mass 198	22.98
365	Greater than 0.75% of mass 198	2.18
441	Present, but less than mass 443	0.28
442	40.00 - 110.00% of mass 198	68.03
443	15.00 - 24.00% of mass 442	13.60 (20.00)

Data File: /chem3/nt1.i/20080726A.b/df0726.d

Date : 26-JUL-2008 12:56

Client ID:

Sample Info: DF0726

Instrument: nt1.i

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df0726.d

Spectrum: Avg. Scans 257-259 (7.68), Background Scan 254

Location of Maximum: 198.00

Number of points: 374

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	107	140.00	1501	241.00	2041	351.00	433
37.00	1940	141.00	18320	242.00	4014	352.00	3917
38.00	6340	142.00	6366	244.00	74056	353.00	3226
39.00	43200	143.00	4145	245.00	11227	354.00	4831
40.00	3821	144.00	1401	246.00	9811	355.00	1087
41.00	983	145.00	1282	247.00	1905	357.00	164
45.00	538	146.00	4134	248.00	195	358.00	79
46.00	640	147.00	9647	249.00	3103	359.00	505
47.00	200	148.00	16824	250.00	575	360.00	130
48.00	28	149.00	3552	251.00	655	361.00	64
49.00	926	150.00	242	252.00	979	363.00	11
50.00	101720	151.00	3415	253.00	663	365.00	17496
51.00	412224	152.00	969	255.00	334528	366.00	2458
52.00	19584	153.00	5619	256.00	49680	367.00	128
53.00	721	154.00	4614	257.00	3721	368.00	55
54.00	506	155.00	11528	258.00	15428	370.00	688
55.00	2260	156.00	16009	259.00	2080	371.00	124
56.00	12134	157.00	3469	260.00	275	372.00	8532
57.00	28360	158.00	3808	261.00	467	373.00	1916
58.00	1704	159.00	2460	262.00	440	374.00	208
59.00	464	160.00	5691	263.00	294	375.00	132
60.00	203	161.00	7662	265.00	6101	376.00	45
61.00	3732	162.00	3052	267.00	438	377.00	266
62.00	4685	163.00	823	268.00	112	381.00	62
63.00	12718	164.00	565	270.00	1295	383.00	1729
64.00	1943	165.00	5883	271.00	774	384.00	1008
65.00	7725	166.00	5532	272.00	707	385.00	51
66.00	764	167.00	36936	273.00	10730	386.00	73
67.00	1254	168.00	17056	274.00	16824	388.00	43
69.00	437696	169.00	2630	275.00	184576	389.00	106
71.00	232	170.00	926	276.00	24136	390.00	697
72.00	584	171.00	1352	277.00	11143	391.00	526
73.00	1125	172.00	2558	278.00	1539	392.00	283
74.00	29880	173.00	3429	279.00	551	393.00	41
75.00	54232	174.00	7083	281.00	579	395.00	267

Data File: df0726.d
Spectrum: Avg. Scans 257-259 (7.68), Background Scan 254
Location of Maximum: 198.00
Number of points: 374

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.00	19920	175.00	11482	282.00	217	396.00	34
77.00	419456	176.00	5256	283.00	1086	397.00	339
78.00	26872	177.00	5266	284.00	1660	399.00	45
79.00	27352	179.00	23544	285.00	2387	400.00	77
80.00	16348	180.00	16220	286.00	673	401.00	440
81.00	24656	181.00	9212	288.00	53	402.00	3612
82.00	7142	182.00	499	289.00	186	403.00	3489
83.00	6591	183.00	590	291.00	251	404.00	1513
84.00	1475	184.00	1953	292.00	804	405.00	60
85.00	3496	185.00	5224	293.00	3158	406.00	83
86.00	6612	186.00	91992	294.00	1180	407.00	100
87.00	2709	187.00	21904	296.00	35208	409.00	42
88.00	1907	188.00	2206	297.00	4617	410.00	282
89.00	1159	189.00	4994	298.00	398	411.00	97
90.00	190	190.00	1282	299.00	305	415.00	294
91.00	5538	191.00	2411	301.00	536	416.00	56
92.00	6701	192.00	5602	302.00	491	418.00	33
93.00	38040	193.00	6969	303.00	5375	419.00	112
94.00	3427	194.00	1770	304.00	839	420.00	127
95.00	844	195.00	29	305.00	103	421.00	3849
96.00	1202	196.00	27480	306.00	42	422.00	43
97.00	306	198.00	803200	307.00	532	423.00	31768
98.00	27584	199.00	54664	308.00	453	424.00	5429
99.00	24736	200.00	3292	309.00	559	425.00	609
100.00	2090	201.00	4825	310.00	715	429.00	68
101.00	12418	203.00	2746	311.00	197	430.00	41
102.00	556	204.00	19768	313.00	565	433.00	45
103.00	4160	205.00	35688	314.00	2202	434.00	84
104.00	7605	206.00	148864	315.00	4567	435.00	100
105.00	8003	207.00	17504	316.00	2416	438.00	134
107.00	98400	208.00	4040	317.00	202	441.00	2246
108.00	16189	209.00	1652	318.00	39	442.00	546432
110.00	258688	210.00	532	319.00	154	443.00	109264
111.00	32672	211.00	6158	320.00	416	444.00	9114
112.00	4090	212.00	48	321.00	991	445.00	349

Data File: /chem3/nt1.i/20080726A.b/df0726.d

Date : 26-JUL-2008 12:56

Client ID:

Instrument: nt1.i

Sample Info: DF0726

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df0726.d

Spectrum: Avg. Scans 257-259 (7.68), Background Scan 254

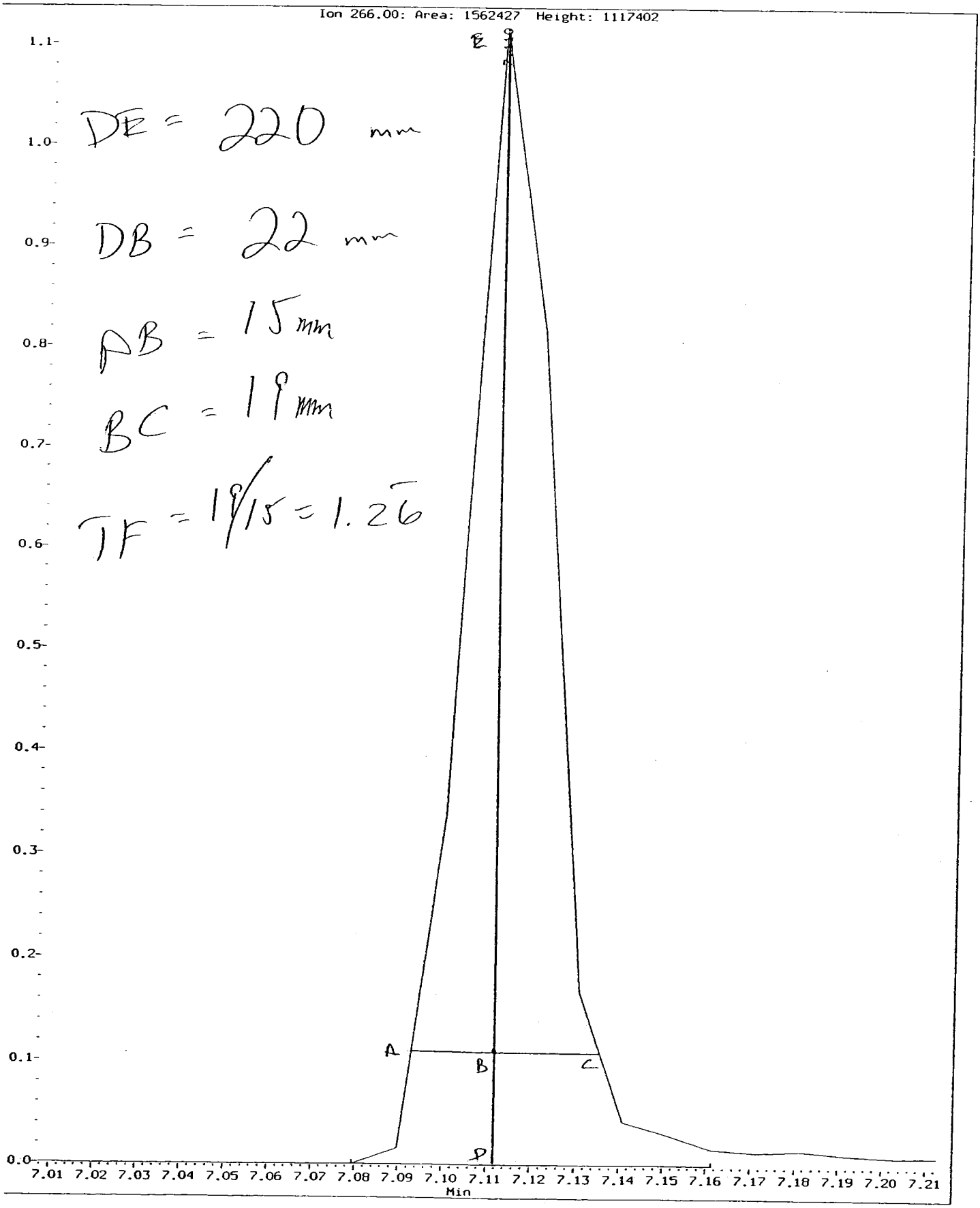
Location of Maximum: 198.00

Number of points: 374

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	1212	213.00	380	323.00	14017	448.00	36
114.00	242	215.00	1262	324.00	2764	451.00	58
115.00	633	217.00	34312	325.00	385	452.00	110
116.00	5411	218.00	4292	327.00	2405	453.00	57
117.00	59440	219.00	904	328.00	999	455.00	53
118.00	4837	221.00	50640	329.00	167	456.00	67
119.00	330	222.00	219	330.00	180	459.00	37
120.00	665	223.00	10429	331.00	115	461.00	68
122.00	7455	224.00	79496	332.00	600	464.00	74
123.00	10931	225.00	19096	333.00	1550	465.00	74
124.00	4533	227.00	26976	334.00	9043	469.00	72
125.00	5050	228.00	4005	335.00	1733	472.00	49
127.00	430592	229.00	6464	336.00	258	473.00	204
128.00	36064	230.00	748	338.00	163	474.00	47
129.00	175296	231.00	2058	339.00	20	476.00	130
130.00	13853	232.00	428	340.00	224	478.00	44
131.00	1393	233.00	274	341.00	1315	481.00	54
132.00	1785	234.00	1728	342.00	428	488.00	144
133.00	570	235.00	2235	343.00	266	489.00	30
134.00	3611	236.00	1915	345.00	202	493.00	75
135.00	12094	237.00	2815	346.00	2876	494.00	93
136.00	3516	238.00	283	347.00	296	496.00	123
137.00	5096	239.00	1349	349.00	60		
139.00	1363	240.00	690	350.00	30		

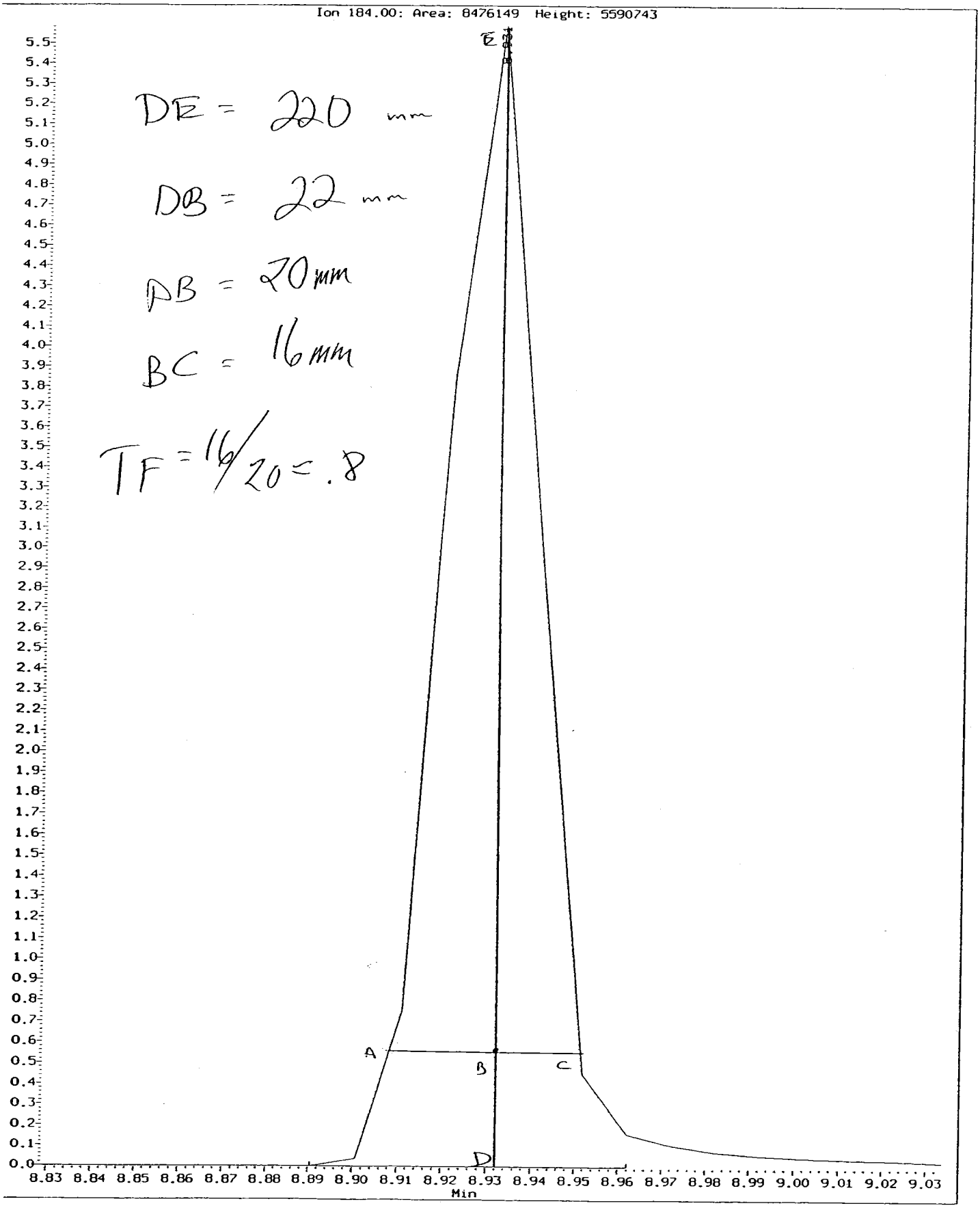
Data File: /chem3/ntl.i/20080726A.b/ddt.b/df0726.d
Injection Date: 26-JUL-2008 12:56
Instrument: ntl.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt1.i/20080726A.b/ddt.b/df0726.d
Injection Date: 26-JUL-2008 12:56
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt1.i/20080726A.b/ddt.b/df0726.d ARI ID: DF0726
Method: /chem3/nt1.i/20080726A.b/ddt.b/sw846ddt.m Misc:
Analysis Date: 26-JUL-2008 12:56 Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	7.110	1562427
Benzidine	8.931	8476149
4,4'-DDE	9.208	18967
4,4'-DDD	9.617	166433
4,4'-DDT	9.985	3030778

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(\ 18967 + 166433) * 100}{(\ 18967 + 166433 + 3030778)}$$

DDT Percent Breakdown = 5.8 %

Data File: /chem3/nt1.i/20081129.b/df1129.d

Date : 29-NOV-2008 10:21

Client ID:

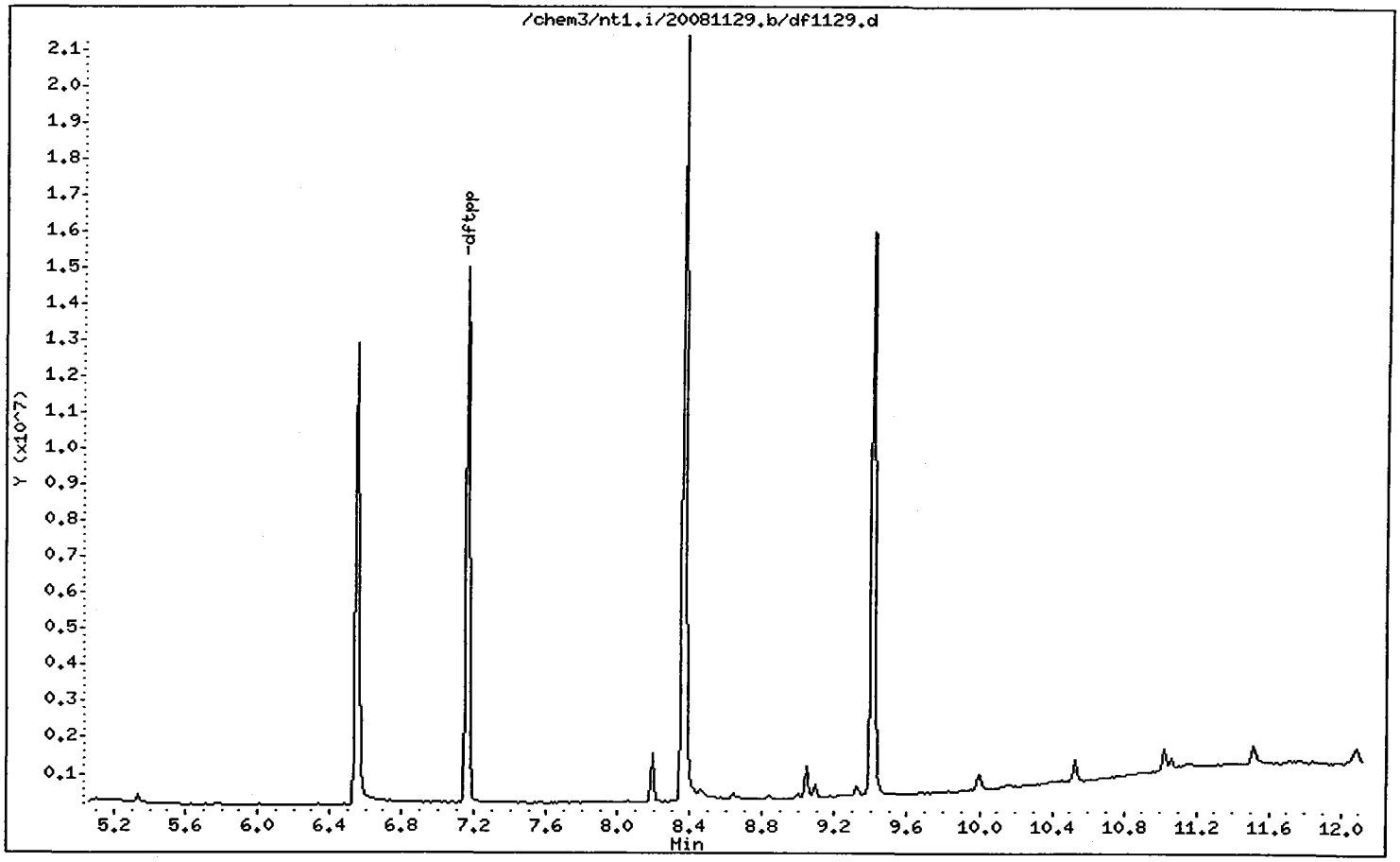
Instrument: nt1.i

Sample Info: DF1129

Operator: VTS

Column phase:

Column diameter: 0.25



Data File: /chem3/nt1.i/20081129.b/df1129.d

Date : 29-NOV-2008 10:21

Client ID:

Instrument: nt1.i

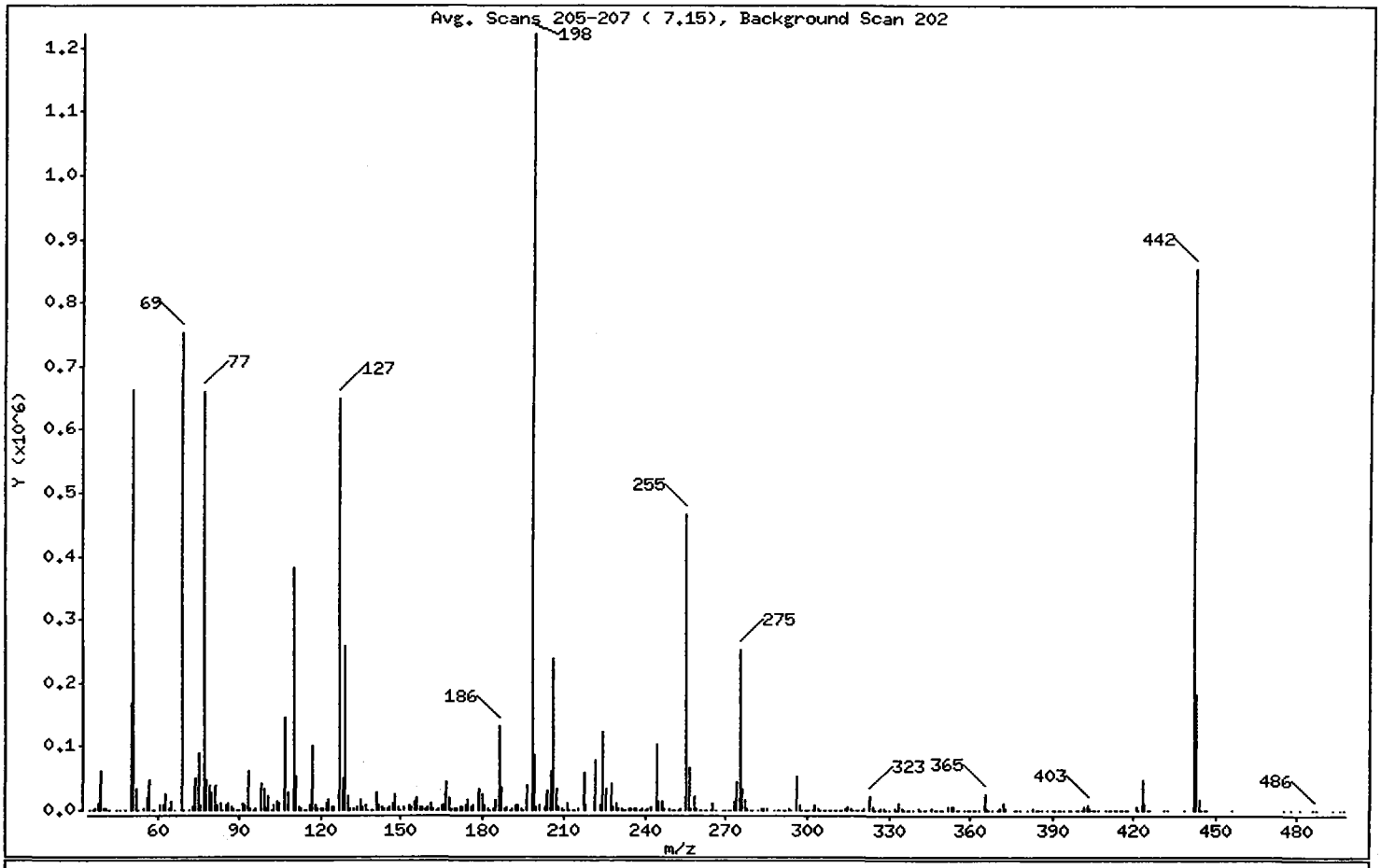
Sample Info: DF1129

Operator: VTS

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	53.18
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	60.37
70	Less than 2.00% of mass 69	0.09 (0.16)
127	25.00 - 75.00% of mass 198	52.34
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.13
275	10.00 - 30.00% of mass 198	21.09
365	Greater than 0.75% of mass 198	2.15
441	Present, but less than mass 443	0.16
442	40.00 - 110.00% of mass 198	80.88
443	15.00 - 24.00% of mass 442	16.87 (20.85)

Data File: /chem3/nt1.i/20081129.b/df1129.d

Date : 29-NOV-2008 10:21

Client ID:

Instrument: nt1.i

Sample Info: DF1129

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1129.d
Spectrum: Avg. Scans 205-207 (7.15), Background Scan 202
Location of Maximum: 198.00
Number of points: 357

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	339	139.00	1262	238.00	206	339.00	558
36.00	1005	140.00	950	239.00	1636	341.00	2788
37.00	3002	141.00	27000	240.00	1293	342.00	462
38.00	10028	142.00	9824	241.00	2731	343.00	368
39.00	62440	143.00	6453	242.00	5745	344.00	55
40.00	1756	144.00	1566	244.00	103272	346.00	3591
41.00	2240	145.00	2278	245.00	13481	347.00	654
42.00	162	146.00	5243	246.00	14254	348.00	34
45.00	1060	147.00	11986	247.00	2649	349.00	152
46.00	613	148.00	26336	249.00	2942	350.00	273
48.00	471	149.00	4443	250.00	439	352.00	5676
50.00	167680	150.00	1333	251.00	913	353.00	4572
51.00	663360	151.00	6113	252.00	891	354.00	6408
52.00	32712	153.00	8284	253.00	1830	355.00	948
53.00	994	154.00	5732	255.00	466752	356.00	154
55.00	1970	155.00	13742	256.00	67408	358.00	49
56.00	19760	156.00	19088	257.00	2652	359.00	478
57.00	48984	157.00	4799	258.00	22048	360.00	399
58.00	980	158.00	4597	259.00	3729	361.00	66
59.00	774	159.00	3174	260.00	816	362.00	102
61.00	7812	160.00	6845	261.00	808	363.00	104
62.00	8030	161.00	10669	262.00	313	365.00	24920
63.00	24248	162.00	1889	263.00	149	366.00	2517
64.00	2993	163.00	7	264.00	506	367.00	236
65.00	13275	164.00	2053	265.00	11062	368.00	94
66.00	807	165.00	7925	266.00	987	370.00	1166
69.00	753024	166.00	7604	269.00	7	371.00	1457
70.00	739	167.00	44096	270.00	643	372.00	11595
72.00	15	168.00	19192	271.00	966	373.00	3007
73.00	4872	169.00	3554	272.00	902	376.00	184
74.00	49520	170.00	2675	273.00	15159	377.00	122
75.00	89512	171.00	2139	274.00	44952	378.00	34
76.00	8239	172.00	4725	275.00	252032	381.00	161
77.00	659840	173.00	4677	276.00	33624	383.00	2637
78.00	47384	174.00	9113	277.00	16177	384.00	645

Data File: /chem3/nt1.i/20081129.b/df1129.d

Date : 29-NOV-2008 10:21

Client ID:

Instrument: nt1.i

Sample Info: DF1129

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1129.d
Spectrum: Avg. Scans 205-207 (7.15), Background Scan 202
Location of Maximum: 198.00
Number of points: 357

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	40704	175.00	16672	278.00	2376	385.00	233
80.00	28480	176.00	6004	279.00	766	386.00	55
81.00	38536	177.00	9460	280.00	4	388.00	158
82.00	8266	179.00	34056	282.00	294	390.00	1244
83.00	10192	180.00	23872	283.00	1712	391.00	994
84.00	487	181.00	9229	284.00	1453	392.00	512
85.00	7265	182.00	2586	285.00	2673	393.00	31
86.00	10938	183.00	497	288.00	155	394.00	146
87.00	5116	184.00	1510	289.00	1285	396.00	219
88.00	2117	185.00	18128	290.00	220	397.00	138
89.00	1062	186.00	132864	291.00	244	399.00	33
90.00	13	187.00	35424	292.00	565	400.00	301
91.00	9874	188.00	3769	293.00	3707	401.00	1
92.00	8909	189.00	6970	294.00	1288	402.00	4489
93.00	60520	190.00	662	296.00	53304	403.00	7047
94.00	4015	191.00	3019	297.00	7529	404.00	2482
95.00	511	192.00	9055	298.00	338	405.00	346
96.00	2657	193.00	9663	299.00	241	406.00	59
98.00	40808	194.00	2091	300.00	149	407.00	68
99.00	34752	195.00	70	301.00	719	410.00	50
100.00	3384	196.00	38728	302.00	550	411.00	55
101.00	21448	198.00	1221632	303.00	7243	412.00	60
102.00	898	199.00	87904	304.00	2163	413.00	81
103.00	7895	200.00	5118	305.00	190	414.00	265
104.00	13531	201.00	7327	306.00	117	415.00	196
105.00	12321	203.00	5456	307.00	87	416.00	118
107.00	147328	204.00	31992	308.00	1193	417.00	42
108.00	27648	205.00	60664	309.00	742	418.00	36
110.00	381568	206.00	238208	310.00	1065	421.00	6797
111.00	52920	207.00	32848	311.00	76	422.00	164
112.00	5178	208.00	6894	312.00	278	423.00	46720
113.00	1977	209.00	2017	313.00	337	424.00	8878
114.00	701	210.00	138	314.00	3225	425.00	775
115.00	254	211.00	10035	315.00	6432	426.00	55
116.00	8478	212.00	197	316.00	4046	431.00	56

Data File: /chem3/nt1.i/20081129.b/df1129.d

Date : 29-NOV-2008 10:21

Client ID:

Instrument: nt1.i

Sample Info: DF1129

Operator: VTS

Column phase:

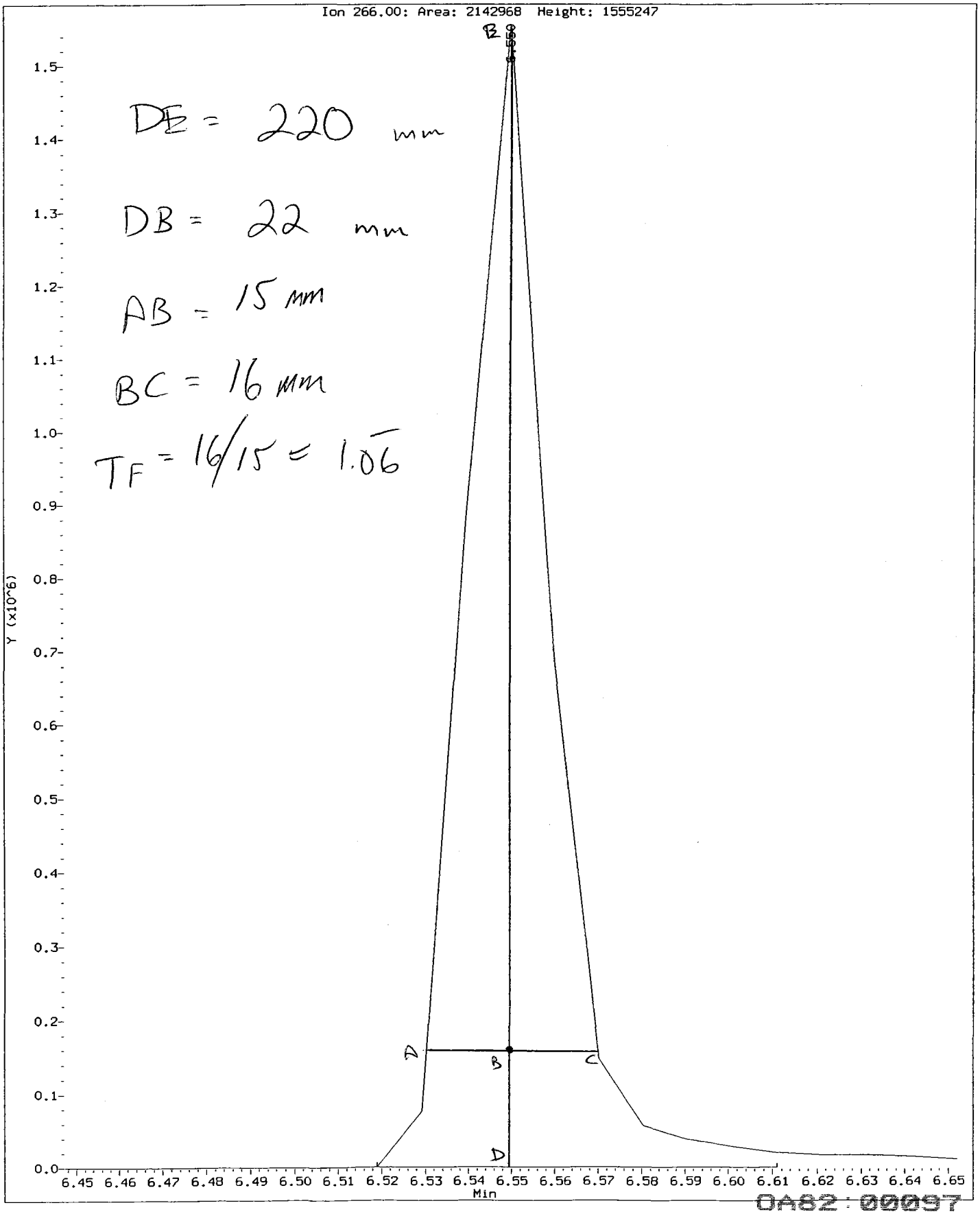
Column diameter: 0.25

Data File: df1129.d
Spectrum: Avg. Scans 205-207 (7.15), Background Scan 202
Location of Maximum: 198.00
Number of points: 357

m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	102200	213.00	740	317.00	684	433.00	43
118.00	9674	214.00	119	318.00	103	439.00	77
119.00	1496	215.00	3183	319.00	93	442.00	853760
120.00	1544	217.00	59640	320.00	151	443.00	181312
121.00	2320	218.00	7312	321.00	1692	444.00	15972
122.00	10595	221.00	80016	323.00	21080	445.00	1137
123.00	16313	223.00	7485	324.00	4223	446.00	43
124.00	6849	224.00	122928	325.00	613	447.00	96
125.00	5899	225.00	33736	326.00	100	456.00	102
127.00	648768	227.00	43056	327.00	3437	475.00	35
128.00	49648	228.00	6704	328.00	1740	478.00	68
129.00	257280	229.00	10212	329.00	427	481.00	69
130.00	21776	230.00	1886	330.00	114	486.00	86
131.00	4096	231.00	3195	332.00	1418	487.00	38
132.00	2956	232.00	887	333.00	1120	493.00	34
134.00	6186	233.00	930	334.00	12601	496.00	72
135.00	17536	234.00	2638	335.00	2942	497.00	41
136.00	5844	235.00	3247	336.00	611		
137.00	9189	236.00	2133	337.00	138		
138.00	1382	237.00	3470	338.00	223		

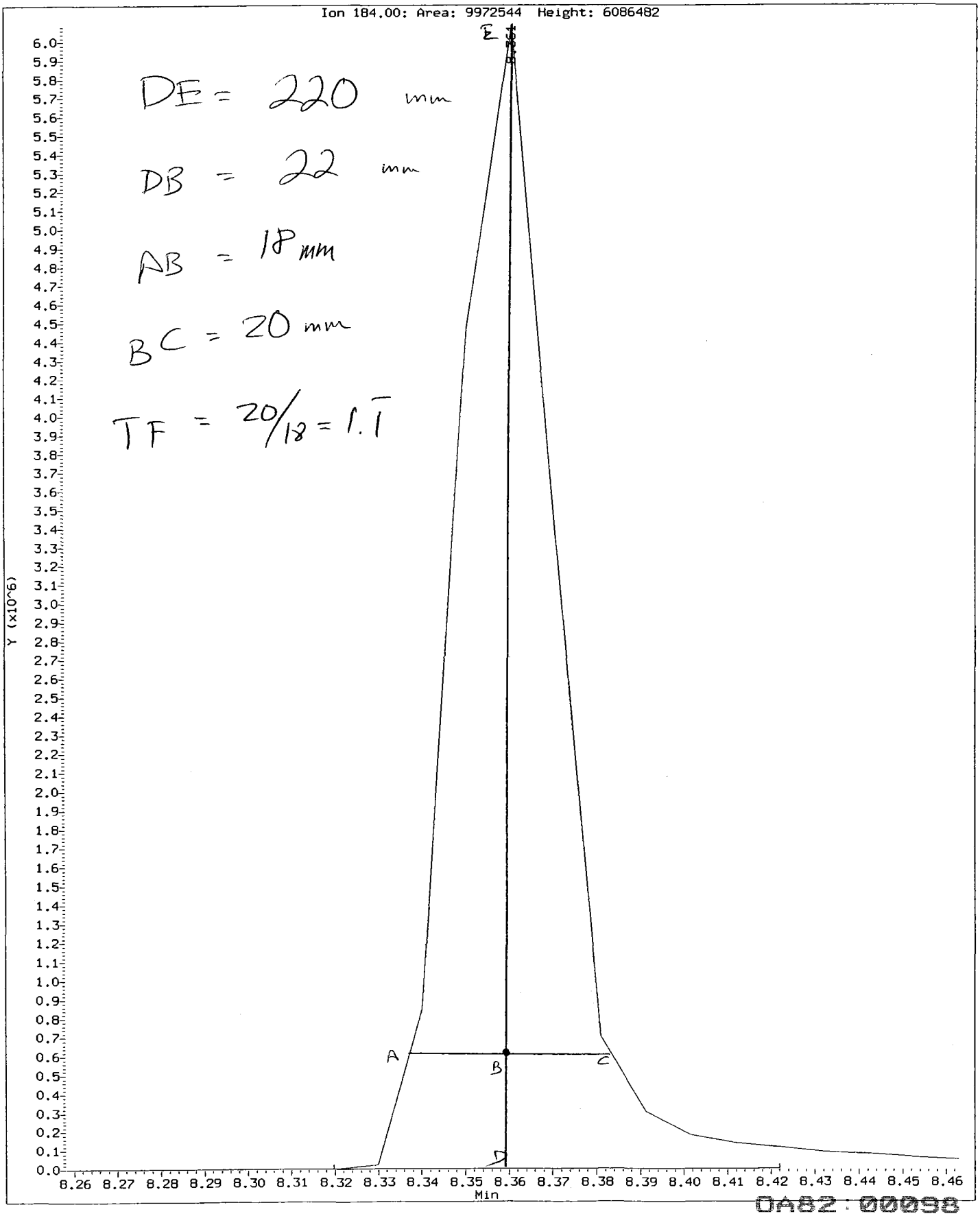
Data File: /chem3/nt1.i/20081129.b/ddt.b/df1129.d
Injection Date: 29-NOV-2008 10:21
Instrument: nt1.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt1.i/20081129.b/ddt.b/df1129.d
Injection Date: 29-NOV-2008 10:21
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt1.i/20081129.b/ddt.b/df1129.d
Method: /chem3/nt1.i/20081129.b/ddt.b/sw846ddt.m
Analysis Date: 29-NOV-2008 10:21

ARI ID: DF1129
Misc:
Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	6.550	2142967
Benzidine	8.361	9972543
4,4'-DDE	8.637	25923
4,4'-DDD	9.046	281235
4,4'-DDT	9.414	4175386

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(\ 25923 + 281235) * 100}{(\ 25923 + 281235 + 4175386)}$$

DDT Percent Breakdown = 6.9 %

Data File: /chem3/nt1.i/20081201.b/df1201.d

Date : 01-DEC-2008 12:01

Client ID:

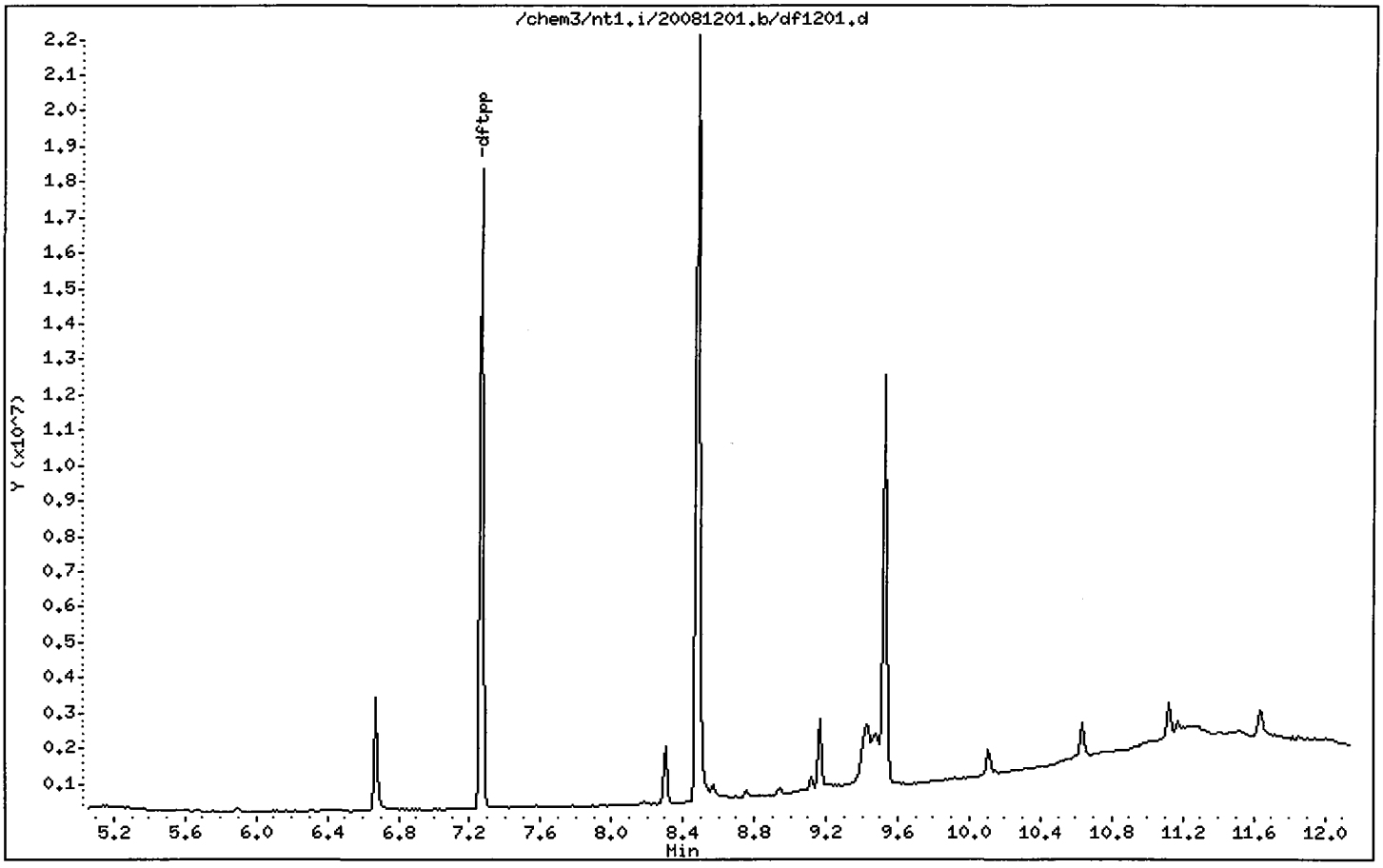
Instrument: nt1.i

Sample Info: DF1201

Operator: VTS

Column phase:

Column diameter: 0.25



Data File: /chem3/nt1.i/20081201.b/df1201.d

Date : 01-DEC-2008 12:01

Client ID:

Instrument: nt1.i

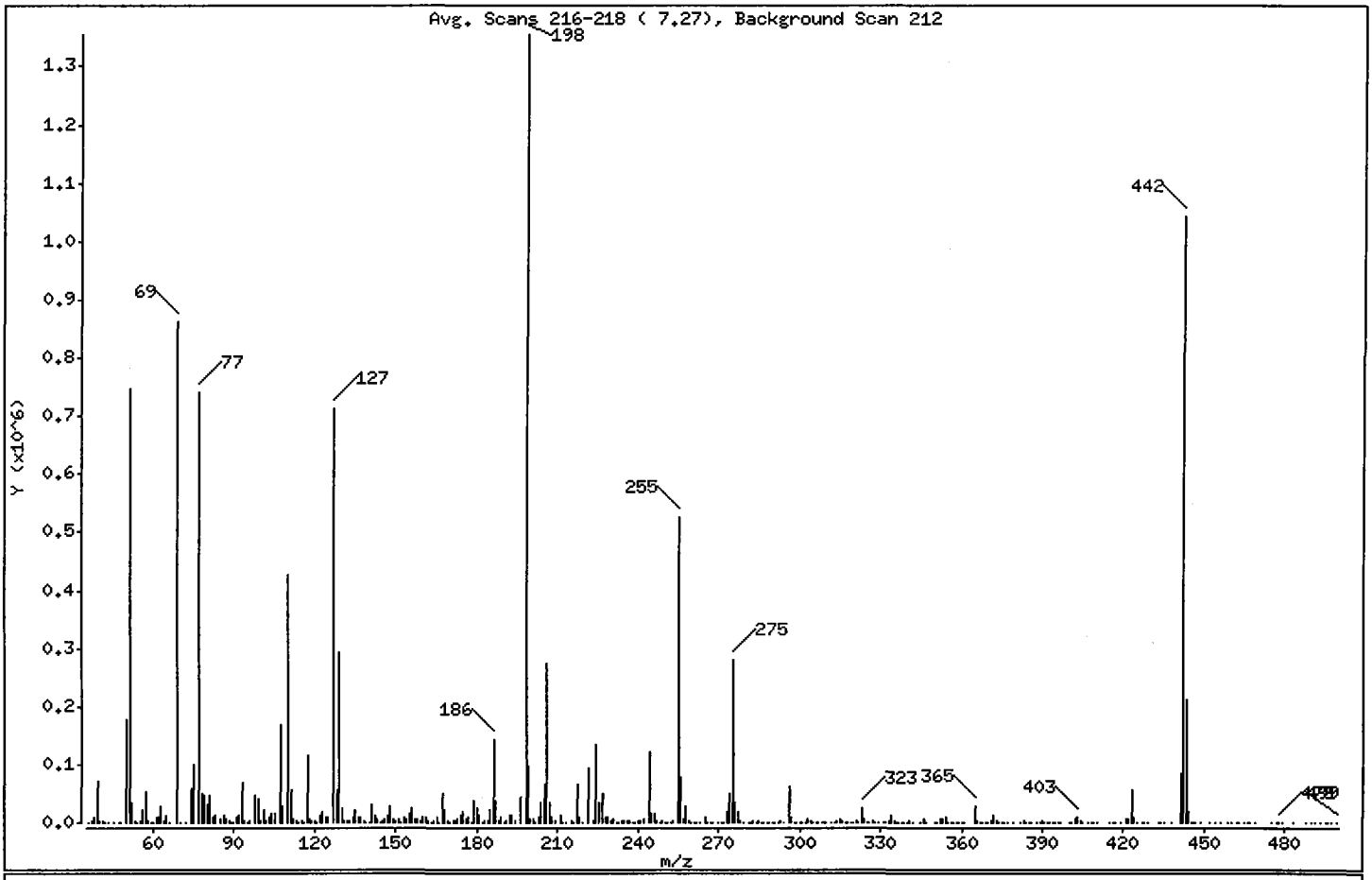
Sample Info: DF1201

Operator: VTS

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	55.16
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	63.66
70	Less than 2.00% of mass 69	0.01 (0.02)
127	25.00 - 75.00% of mass 198	52.58
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.15
275	10.00 - 30.00% of mass 198	20.58
365	Greater than 0.75% of mass 198	2.03
441	Present, but less than mass 443	6.14
442	40.00 - 110.00% of mass 198	77.08
443	15.00 - 24.00% of mass 442	15.72 (20.39)

Data File: /chem3/nt1.i/20081201.b/df1201.d

Date : 01-DEC-2008 12:01

Client ID:

Instrument: nt1.i

Sample Info: DF1201

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1201.d
Spectrum: Avg. Scans 216-218 (7.27), Background Scan 212
Location of Maximum: 198.00
Number of points: 381

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	160	145.00	1606	249.00	4104	356.00	426
37.00	3378	146.00	5059	250.00	1089	357.00	306
38.00	10576	147.00	13589	251.00	81	358.00	150
39.00	70520	148.00	28984	252.00	694	359.00	316
40.00	3967	149.00	5362	253.00	1947	360.00	272
41.00	1736	150.00	2600	255.00	527040	361.00	272
42.00	427	151.00	5181	256.00	78208	365.00	27432
43.00	588	152.00	1419	257.00	6464	366.00	4402
45.00	1365	153.00	8099	258.00	28200	367.00	397
47.00	271	154.00	6142	259.00	3351	368.00	45
48.00	383	155.00	14734	260.00	893	369.00	208
50.00	176832	156.00	23416	261.00	866	370.00	995
51.00	747008	157.00	4895	262.00	5	371.00	1946
52.00	33968	158.00	4696	263.00	262	372.00	12636
53.00	2721	159.00	3834	265.00	9474	373.00	3024
54.00	971	160.00	8707	266.00	1365	374.00	583
55.00	3154	161.00	10386	267.00	46	375.00	177
56.00	20808	162.00	4190	268.00	701	376.00	136
57.00	54264	163.00	1129	270.00	713	377.00	409
58.00	2678	164.00	2167	271.00	1238	379.00	48
59.00	642	165.00	8350	272.00	490	382.00	134
60.00	335	166.00	1473	273.00	17304	383.00	3214
61.00	8630	167.00	48960	274.00	51296	384.00	766
62.00	9212	168.00	22936	275.00	278784	385.00	329
63.00	27312	169.00	2951	276.00	35720	386.00	72
64.00	3269	170.00	1395	277.00	17208	388.00	70
65.00	13730	171.00	2115	278.00	2746	389.00	167
66.00	1331	172.00	4095	279.00	815	390.00	1788
69.00	862080	173.00	5552	281.00	191	391.00	1499
70.00	200	174.00	11509	282.00	303	392.00	1462
72.00	436	175.00	18560	283.00	1726	393.00	71
74.00	60056	176.00	7755	284.00	1439	394.00	95
75.00	100480	177.00	9886	285.00	3342	395.00	113
77.00	742016	178.00	133	286.00	411	396.00	55
78.00	48520	179.00	38880	287.00	84	397.00	197

Date : 01-DEC-2008 12:01

Client ID: Instrument: nt1.i

Sample Info: DF1201

Operator: VTS

Column phase: Column diameter: 0.25

Data File: df1201.d
Spectrum: Avg. Scans 216-218 (7.27), Background Scan 212
Location of Maximum: 198.00
Number of points: 381

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	45752	180.00	23808	288.00	394	400.00	579
80.00	29976	181.00	11879	289.00	789	401.00	699
81.00	46784	182.00	1183	290.00	548	402.00	5015
82.00	10693	183.00	2538	291.00	314	403.00	8503
83.00	11534	184.00	2050	292.00	1416	404.00	2784
85.00	6949	185.00	20280	293.00	4174	405.00	320
86.00	12415	186.00	142080	294.00	1453	407.00	126
87.00	5784	187.00	38648	296.00	62368	408.00	232
88.00	3064	188.00	3896	297.00	8531	409.00	42
89.00	389	189.00	7889	298.00	520	410.00	427
90.00	128	190.00	1523	299.00	404	415.00	391
91.00	9707	191.00	4140	300.00	98	416.00	293
92.00	11670	192.00	10952	301.00	1121	417.00	170
93.00	67296	193.00	13669	302.00	1063	419.00	121
94.00	3872	194.00	2216	303.00	6549	421.00	6617
95.00	375	196.00	42496	304.00	2369	422.00	5581
96.00	1696	198.00	1354240	305.00	323	423.00	56112
98.00	47024	199.00	96784	306.00	140	424.00	10445
99.00	39296	200.00	6760	307.00	188	425.00	961
100.00	3816	201.00	7398	308.00	968	427.00	78
101.00	22344	202.00	65	309.00	513	428.00	115
102.00	2028	203.00	7792	310.00	681	429.00	1
103.00	8594	204.00	33896	312.00	556	433.00	60
104.00	14889	205.00	64400	313.00	549	434.00	35
105.00	14986	206.00	272448	314.00	2668	435.00	38
107.00	168128	207.00	34088	315.00	7458	438.00	111
108.00	27632	208.00	7821	316.00	3664	441.00	83152
110.00	425024	209.00	3136	317.00	1423	442.00	1043968
111.00	55880	211.00	11403	318.00	143	443.00	212864
112.00	6082	212.00	527	319.00	277	444.00	19464
113.00	2339	213.00	711	320.00	700	445.00	1159
114.00	293	215.00	2331	321.00	3008	446.00	323
115.00	1835	216.00	951	322.00	109	447.00	73
116.00	88	217.00	65680	323.00	23672	449.00	57
117.00	116208	218.00	7918	324.00	4782	452.00	157

Date : 01-DEC-2008 12:01

Client ID: Instrument: nt1.i

Sample Info: DF1201

Operator: VTS

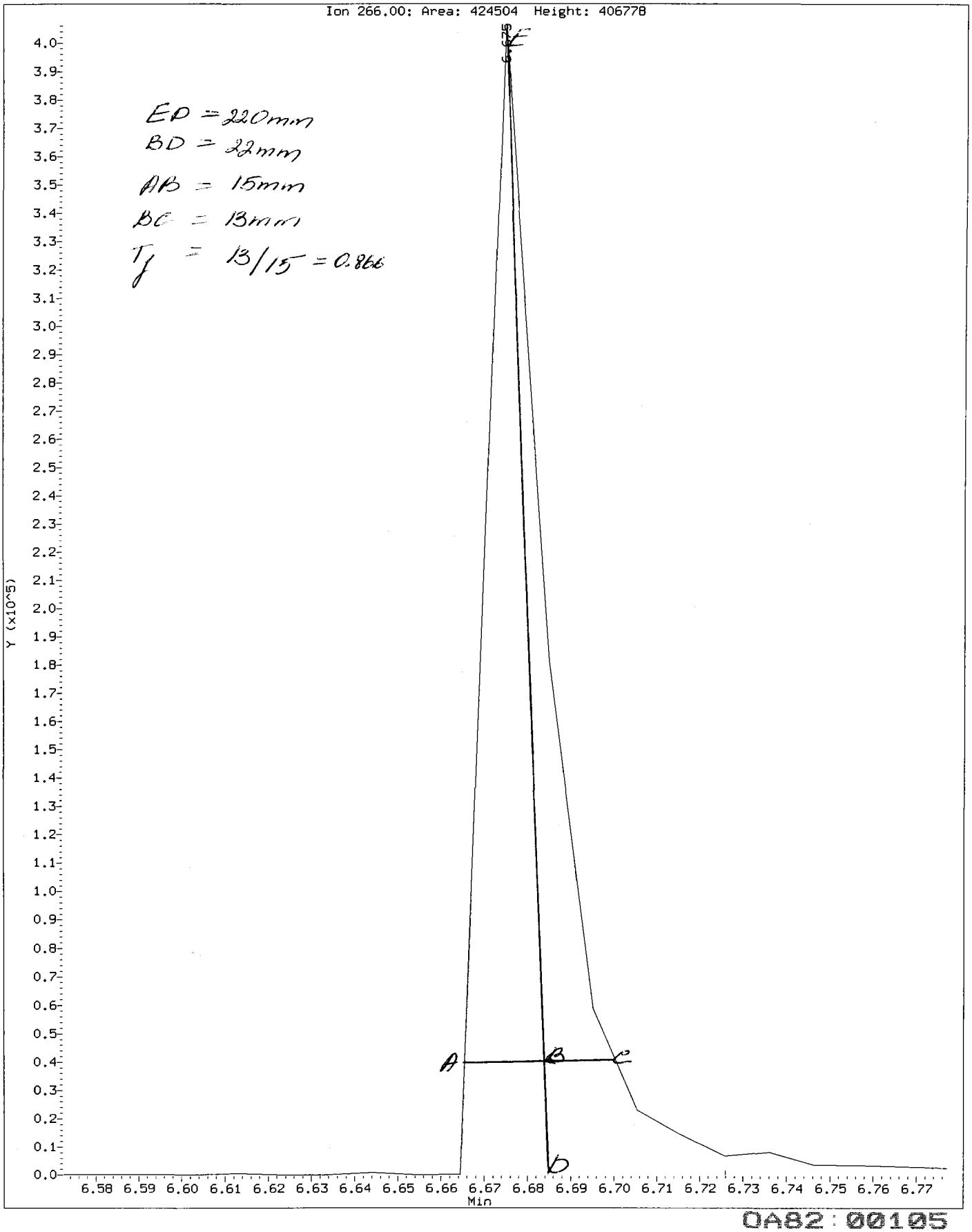
Column phase: Column diameter: 0.25

Data File: df1201.d
Spectrum: Avg. Scans 216-218 (7.27), Background Scan 212
Location of Maximum: 198.00
Number of points: 381

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	7746	219.00	656	325.00	592	454.00	46
119.00	2250	221.00	94064	326.00	113	456.00	101
120.00	1907	223.00	4354	327.00	3783	459.00	34
121.00	1030	224.00	135360	328.00	1407	460.00	20
122.00	12099	225.00	33848	329.00	588	462.00	107
123.00	18696	227.00	49056	331.00	598	463.00	165
124.00	8043	228.00	8523	332.00	832	465.00	17
125.00	8211	229.00	9886	333.00	3344	466.00	10
127.00	712064	230.00	1559	334.00	13665	467.00	43
128.00	56568	231.00	5402	335.00	3922	469.00	110
129.00	293056	232.00	813	336.00	242	475.00	130
130.00	24192	233.00	1019	337.00	457	477.00	51
131.00	3491	234.00	2962	338.00	173	478.00	428
132.00	2451	235.00	3051	339.00	492	479.00	136
133.00	2428	236.00	2517	340.00	778	483.00	60
134.00	8043	237.00	3952	341.00	2493	488.00	55
135.00	20256	238.00	681	342.00	699	490.00	53
136.00	8021	239.00	1092	345.00	92	491.00	114
137.00	9380	240.00	1996	346.00	4674	493.00	142
138.00	2527	241.00	2510	347.00	954	495.00	42
139.00	1242	242.00	7073	350.00	321	496.00	56
140.00	786	244.00	120928	351.00	804	497.00	35
141.00	31584	245.00	16824	352.00	6502	499.00	120
142.00	11087	246.00	16680	353.00	4680		
143.00	5464	247.00	3233	354.00	8290		
144.00	1257	248.00	1209	355.00	1355		

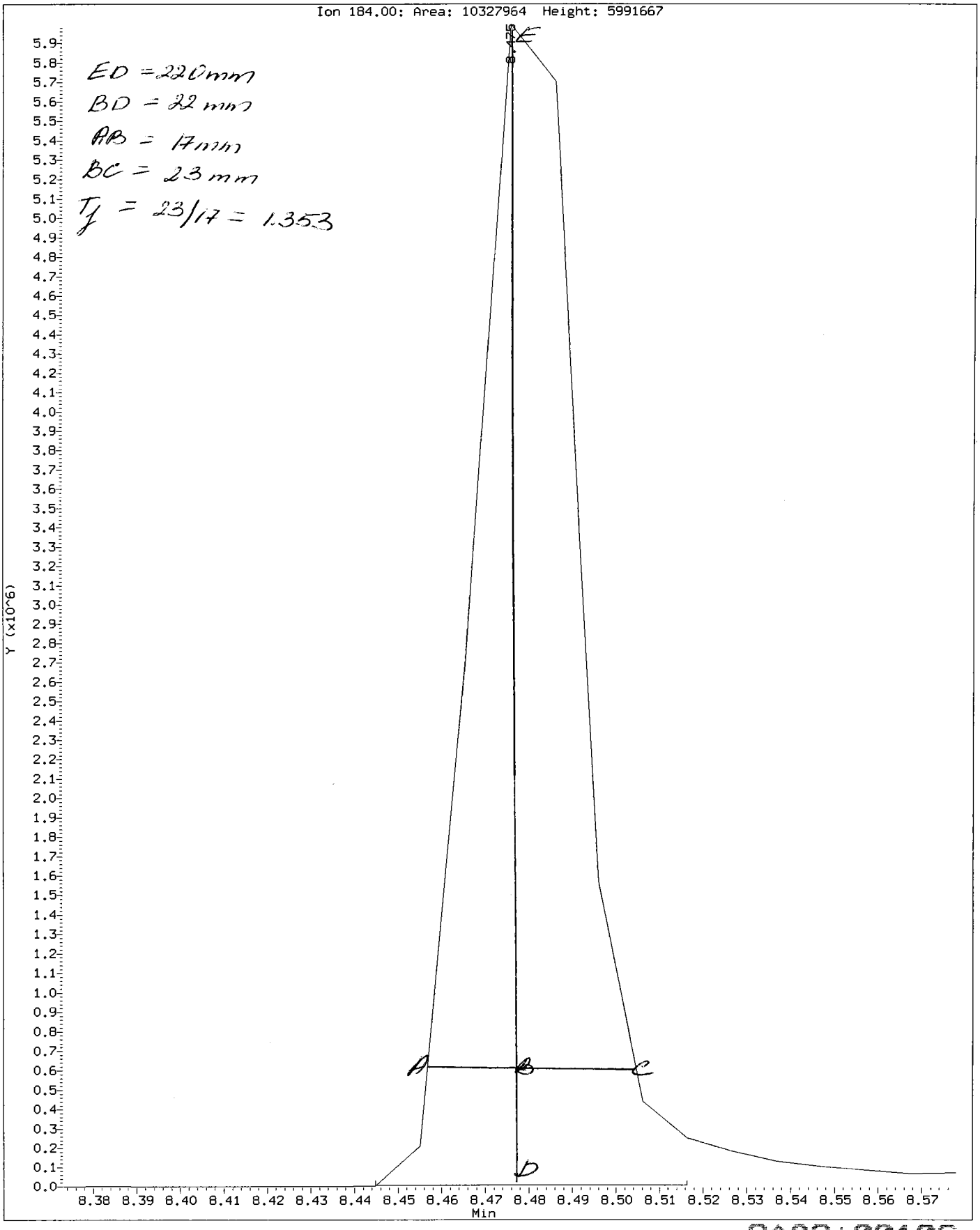
Data File: /chem3/nt1.i/20081201.b/ddt.b/df1201.d
Injection Date: 01-DEC-2008 12:01
Instrument: nt1.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt1.i/20081201.b/ddt.b/df1201.d
Injection Date: 01-DEC-2008 12:01
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt1.i/20081201.b/ddt.b/df1201.d ARI ID: DF1201
Method: /chem3/nt1.i/20081201.b/ddt.b/sw846ddt.m Misc:
Analysis Date: 01-DEC-2008 12:01 Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	6.675	424503
Benzidine	8.475	10327964
4,4'-DDE	8.762	31242
4,4'-DDD	9.171	470204
4,4'-DDT	9.529	2321179

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(\ 31242 + 470204) * 100}{(\ 31242 + 470204 + 2321179)}$$

DDT Percent Breakdown = 17.8 %

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: MB-112508
METHOD BLANK

Lab Sample ID: MB-112508
LIMS ID: 08-31459
Matrix: Sediment
Data Release Authorized:
Reported: 12/03/08

QC Report No: OA82-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 11/25/08
Date Analyzed: 11/29/08 18:53
Instrument/Analyst: NT1/YZ
Silica Gel Cleanup: No

Sample Amount: 5.00 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyltin Ion	3.9	< 3.9	U

Reported in µg/kg (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	116%
Tripentyl Tin Chloride	96.0%

YZ 12/01/08

Analytical Resources, Inc.

Butyl Tins - GC/MS SIM

Data file : /chem3/nt1.i/20081129.b/oa82mb.d
Lab Smp Id: OA82MBS1 Client Smp ID: OA82MBS1
Inj Date : 29-NOV-2008 18:53
Operator : VTS Inst ID: nt1.i
Smp Info : OA82MBS1
Misc Info : 08-31459
Comment : 2 ul Injection
Method : /chem3/nt1.i/20081129.b/lowbts.m
Meth Date : 29-Nov-2008 11:07 van Quant Type: ISTD
Cal Date : 26-JUL-2008 14:48 Cal File: ic0726f.d
Als bottle: 26 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SED.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Effective Final Volume of extract (uL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	Percent Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$	1 Tripropyl Tin (Hexyl)	291	7.489	7.497	(0.821)	42293	0.68067	68.07(R)
	2 Tetrabutyl Tin	289	Compound Not Detected.					
	3 Tributyl Tin (Hexyl)	319	Compound Not Detected.					
*	4 Tetrapentyl Tin	333	9.117	9.118	(1.000)	178340	2.00000	
	5 Dibutyl Tin (Hexyl)	347	Compound Not Detected.					
$	6 Tripentyl Tin (Hexyl)	345	9.448	9.449	(0.943)	27105	0.54473	54.47
	7 Butyl Tin (Hexyl)	347	Compound Not Detected.					
*	8 p-Terphenyl-d14	244	10.020	10.020	(1.000)	244819	0.20000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: oa82mb.d
Lab Smp Id: OA82MBS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081129.b/lowbts.m
Misc Info: 08-31459

Calibration Date: 29-NOV-2008
Calibration Time: 10:40
Client Smp ID: OA82MBS1
Level: LOW
Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	176954	88477	353908	178340	0.78
8 p-Terphenyl-d14	183984	91992	367968	244819	33.07

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.12	8.62	9.62	9.12	-0.01
8 p-Terphenyl-d14	10.02	9.52	10.52	10.02	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: OA82MBS1
Level: LOW
Data Type: MS DATA
SpikeList File: TBTsed.spk
Sublist File: SED.sub
Method File: /chem3/nt1.i/20081129.b/lowbts.m
Misc Info: 08-31459

Client SDG: OA82
Fraction: SV
Client Smp ID: OA82MBS1
Operator: VTS
SampleType: BLANK
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3 Tributyl Tin (Hex	50.00	0.000	*	20-150

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 Tripropyl Tin (Hex	50.00	68.07	136.13*	25-96
$ 6 Tripentyl Tin (Hex	50.00	54.47	108.95	30-136

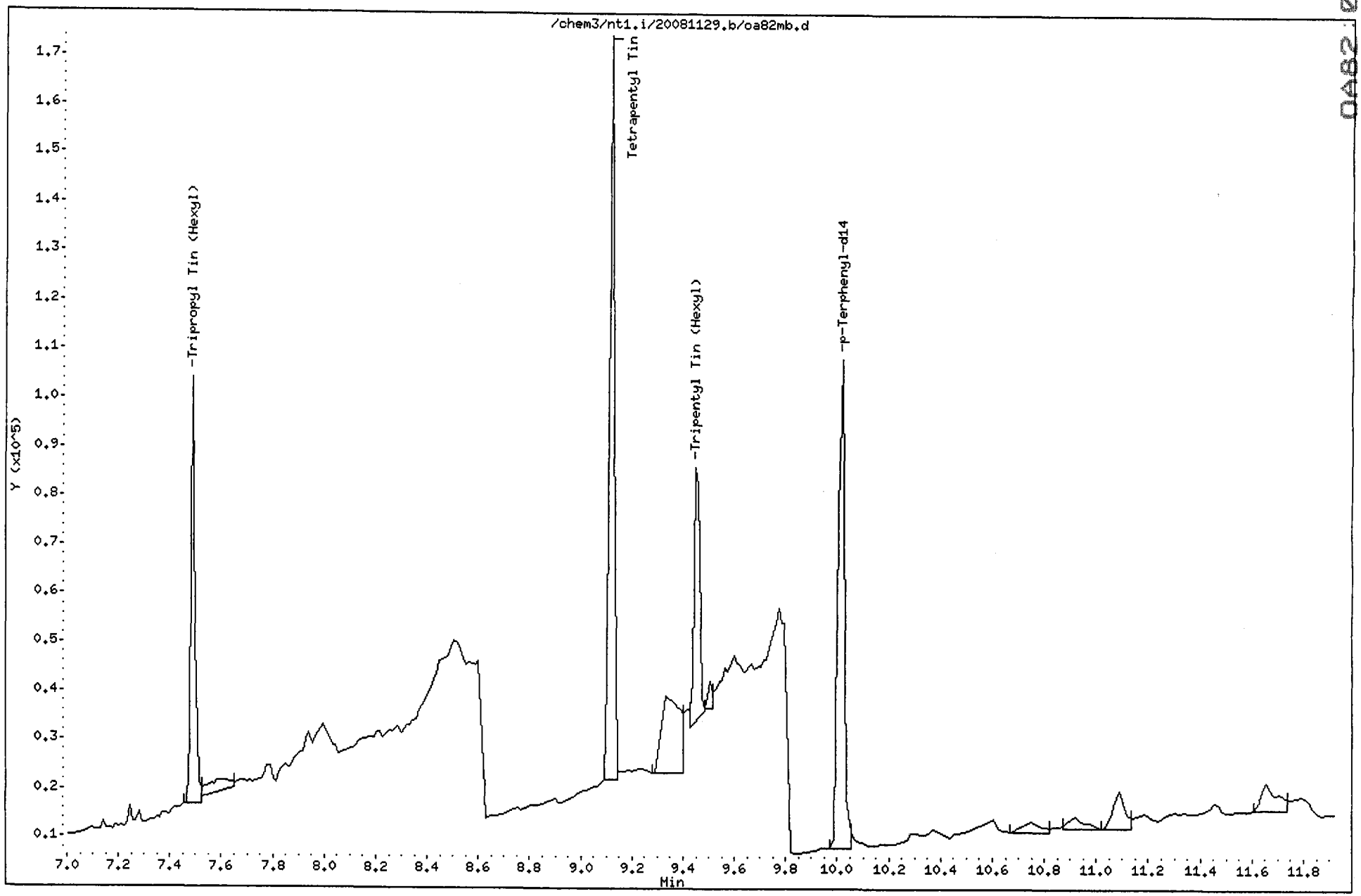
Data File: /chem3/nt1.i/20081129.b/oa82mb.d
Date : 29-NOV-2008 18:53
Client ID: OA82MBS1
Sample Info: OA82MBS1

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5

OA82.091.12



YZ 4/09/08

Analytical Resources, Inc.

Butyl Tins - GC/MS SIM

Data file : /chem3/nt1.i/20081129.b/oa82sb.d
Lab Smp Id: OA82LCSS1 Client Smp ID: OA82LCSS1
Inj Date : 29-NOV-2008 19:11
Operator : VTS Inst ID: nt1.i
Smp Info : OA82LCSS1
Misc Info : 08-31459
Comment : 2 ul Injection
Method : /chem3/nt1.i/20081129.b/lowbts.m
Meth Date : 29-Nov-2008 11:07 van Quant Type: ISTD
Cal Date : 26-JUL-2008 14:48 Cal File: ic0726f.d
Als bottle: 27 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SED.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Effective Final Volume of extract (uL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	Percent Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	1 Tripropyl Tin (Hexyl)	291	7.488	7.497	(0.821)	44888	0.70783	70.78(R)
	2 Tetrabutyl Tin	289	Compound Not Detected.					
	3 Tributyl Tin (Hexyl)	319	8.470	8.481	(0.929)	34618	0.63099	63.10
*	4 Tetrapentyl Tin	333	9.118	9.118	(1.000)	182018	2.00000	
	5 Dibutyl Tin (Hexyl)	347	9.158	9.172	(0.914)	21707	0.60637	60.64
$	6 Tripentyl Tin (Hexyl)	345	9.447	9.449	(0.943)	27544	0.68631	68.63(R)
	7 Butyl Tin (Hexyl)	347	9.794	9.784	(0.978)	41973	0.73078	73.08(M)
*	8 p-Terphenyl-d14	244	10.019	10.020	(1.000)	197462	0.20000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: oa82sb.d
Lab Smp Id: OA82LCSS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081129.b/lowbts.m
Misc Info: 08-31459

Calibration Date: 29-NOV-2008
Calibration Time: 10:40
Client Smp ID: OA82LCSS1
Level: LOW
Sample Type: Solid

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	176954	88477	353908	182018	2.86
8 p-Terphenyl-d14	183984	91992	367968	197462	7.33

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.12	8.62	9.62	9.12	0.00
8 p-Terphenyl-d14	10.02	9.52	10.52	10.02	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: OA82LCSS1
Level: LOW
Data Type: MS DATA
SpikeList File: TBTsed.spk
Sublist File: SED.sub
Method File: /chem3/nt1.i/20081129.b/lowbts.m
Misc Info: 08-31459

Client SDG: OA82
Fraction: SV
Client Smp ID: OA82LCSS1
Operator: VTS
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3 Tributyl Tin (Hexy	50.00	63.10	126.20	20-150

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 Tripropyl Tin (Hex	50.00	70.78	141.57*	25-96
$ 6 Tripentyl Tin (Hex	50.00	68.63	137.26*	30-136

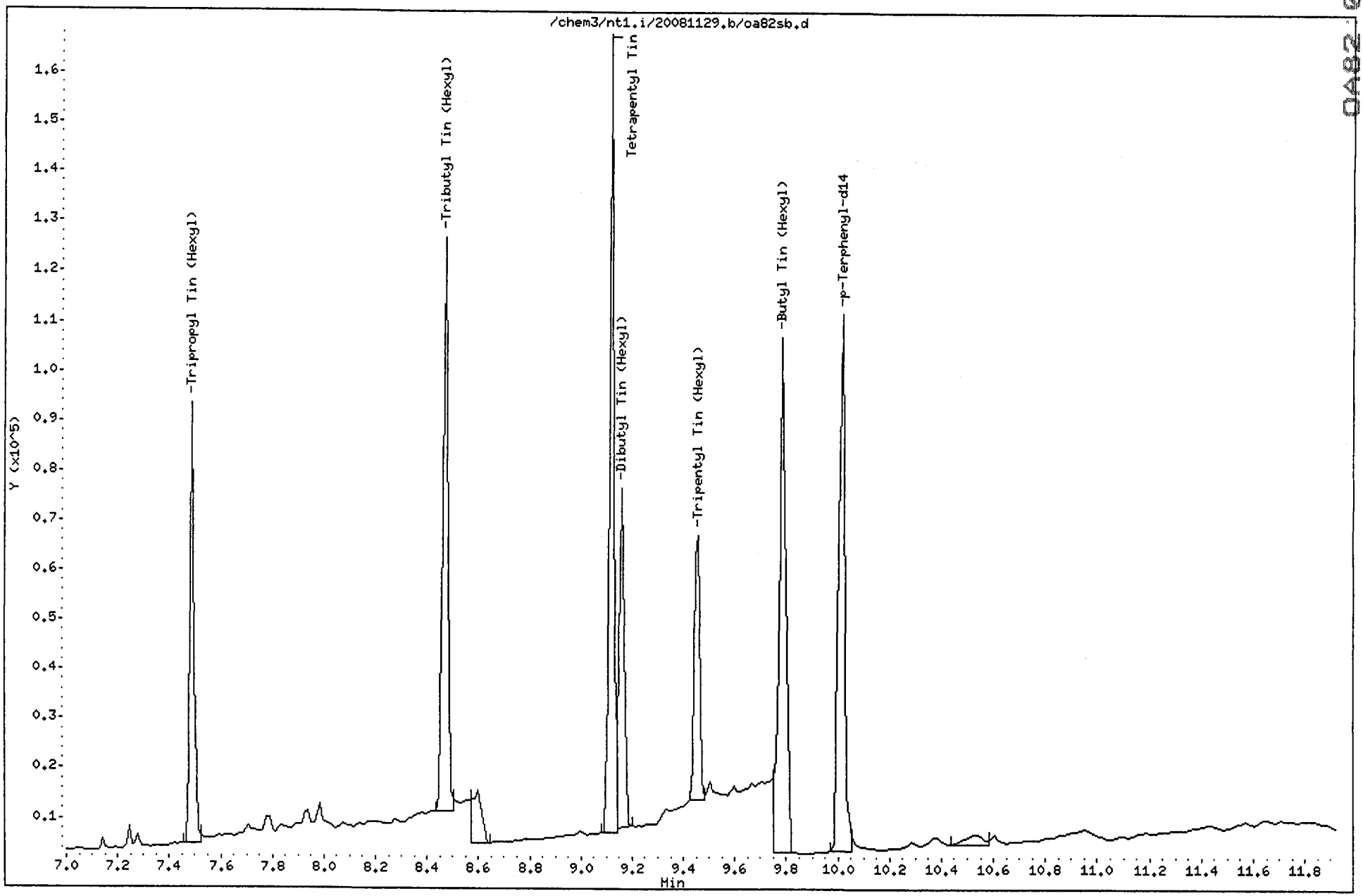
Data File: /chem3/nt1.i/20081129.b/oa82sb.d
Date : 29-NOV-2008 19:11
Client ID: OA82LCSS1
Sample Info: OA82LCSS1

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5

OA82 09116



YZ 12/9/08

Analytical Resources, Inc.

Butyl Tins - GC/MS SIM

Data file : /chem3/nt1.i/20081129.b/oa82a.d
Lab Smp Id: OA82A Client Smp ID: EB-SE-03-Z-081018 C
Inj Date : 29-NOV-2008 19:29
Operator : VTS Inst ID: nt1.i
Smp Info : OA82A
Misc Info : 08-31459
Comment : 2 ul Injection
Method : /chem3/nt1.i/20081129.b/lowbts.m
Meth Date : 29-Nov-2008 11:07 van Quant Type: ISTD
Cal Date : 26-JUL-2008 14:48 Cal File: ic0726f.d
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SED.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / (Ws * (100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Effective Final Volume of extract (uL)
Ws	8.07000	Weight of sample extracted (g)
M	36.70000	Percent Moisture (not decanted)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$	1 Tripropyl Tin (Hexyl)	291	7.497	7.497	(0.822)	47917	0.72966	71.42 (R)
	2 Tetrabutyl Tin	289	7.706	7.705	(0.845)	5002	0.07865 NFA	7.698
	3 Tributyl Tin (Hexyl)	319	8.481	8.481	(0.930)	368118	6.47949 E	634.2
*	4 Tetrapentyl Tin	333	9.117	9.118	(1.000)	188488	2.00000	
	5 Dibutyl Tin (Hexyl)	347	9.171	9.172	(0.915)	82734	2.32803 NFA	227.9
$	6 Tripentyl Tin (Hexyl)	345	9.448	9.449	(0.943)	27488	0.68992	67.53 (R)
	7 Butyl Tin (Hexyl)	347	9.795	9.784	(0.978)	35100	0.61559 NFA	60.25
*	8 p-Terphenyl-d14	244	10.019	10.020	(1.000)	196028	0.20000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: oa82a.d
Lab Smp Id: OA82A
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081129.b/lowbts.m
Misc Info: 08-31459

Calibration Date: 29-NOV-2008
Calibration Time: 10:40
Client Smp ID: EB-SE-03-Z-08101
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	176954	88477	353908	188488	6.52
8 p-Terphenyl-d14	183984	91992	367968	196028	6.55

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.12	8.62	9.62	9.12	0.00
8 p-Terphenyl-d14	10.02	9.52	10.52	10.02	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: OA82A
Level: LOW
Data Type: MS DATA
SpikeList File: TBTsed.spk
Sublist File: SED.sub
Method File: /chem3/nt1.i/20081129.b/lowbts.m
Misc Info: 08-31459

Client SDG: OA82
Fraction: SV
Client Smp ID: EB-SE-03-Z-081018 C
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

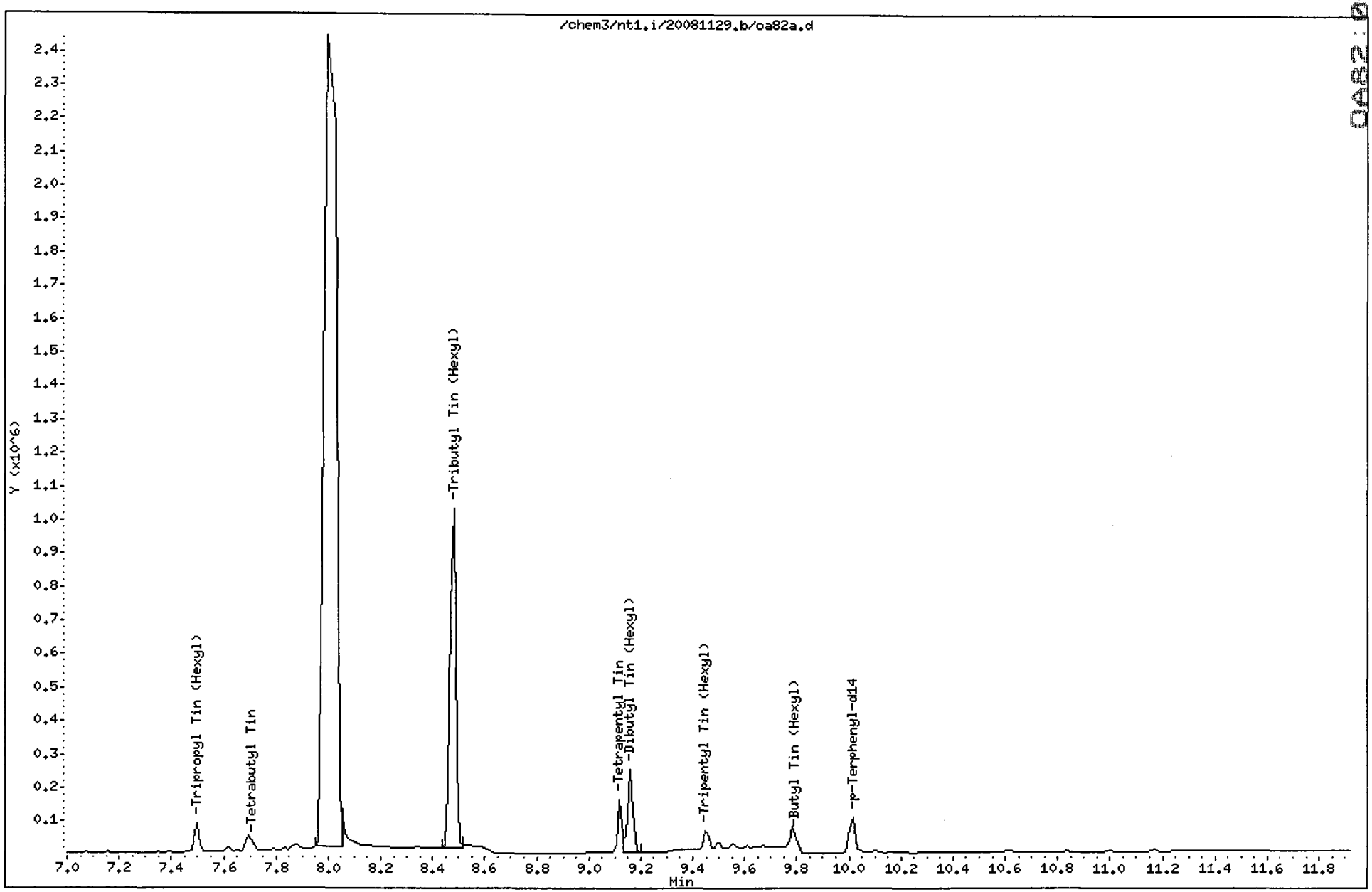
SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 Tripropyl Tin (Hex	48.94	71.42	145.93*	25-96
$ 6 Tripentyl Tin (Hex	48.94	67.53	137.98*	30-136

Data File: /chem3/nt1.i/20081129.b/oa82a.d
Date : 29-NOV-2008 19:29
Client ID: EB-SE-03-Z-081018 C
Sample Info: OA82A

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



Data File: /chem3/nt1.i/20081129.b/oa82a.d

Date : 29-NOV-2008 19:29

Client ID: EB-SE-03-Z-081018 C

Instrument: nt1.i

Sample Info: OA82A

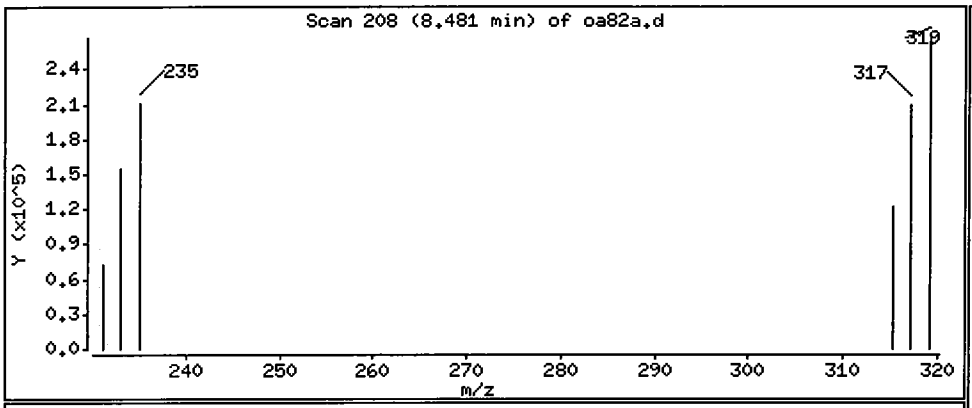
Operator: VTS

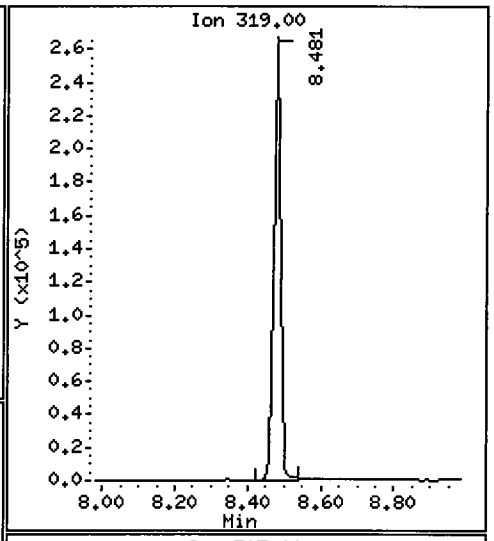
Column phase: ZB-5

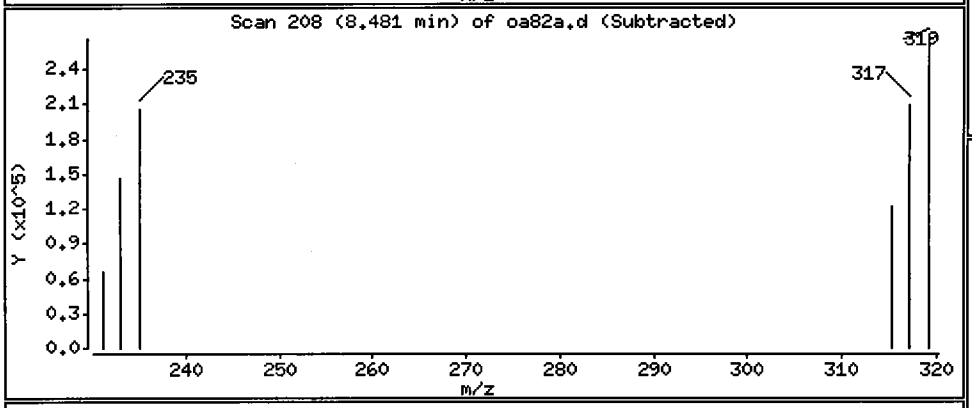
Column diameter: 0.25

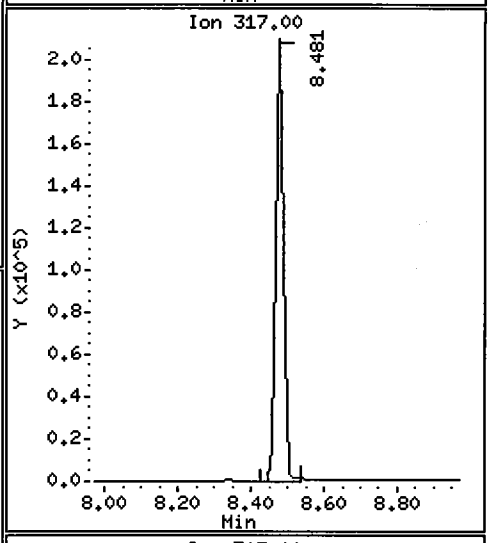
3 Tributyl Tin (Hexyl)

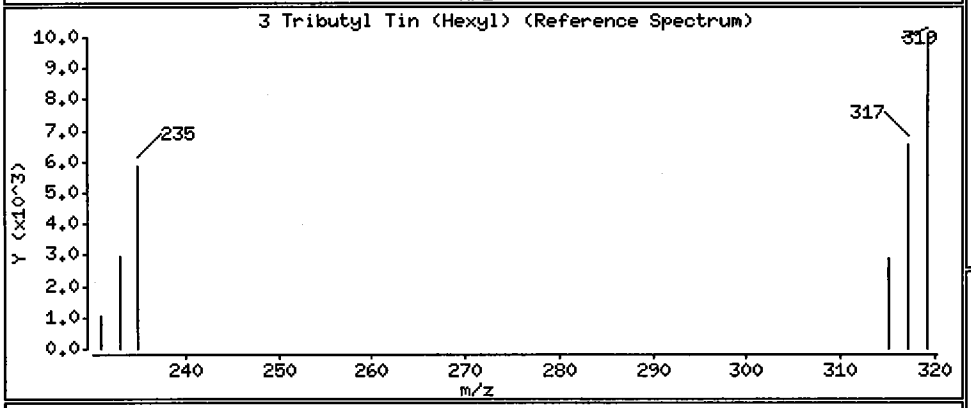
Concentration: 634.2 ug/kg

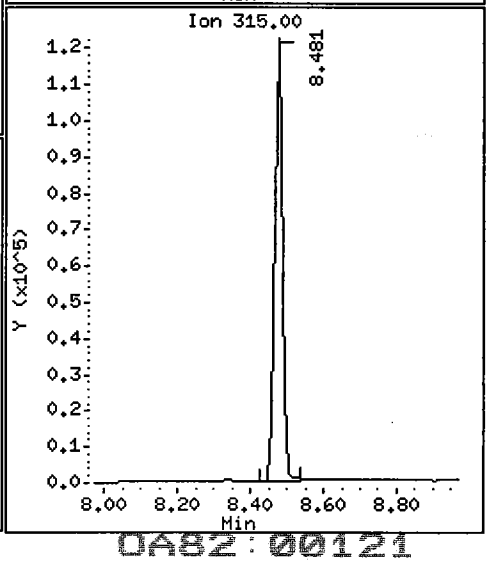


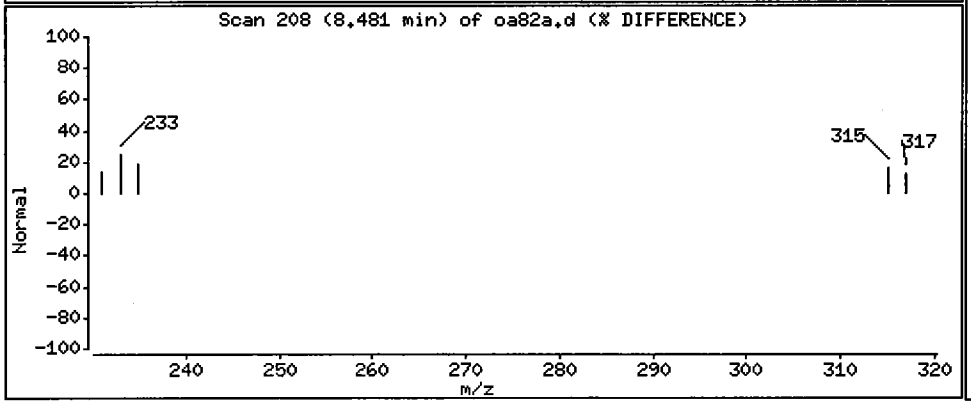












TBT Analysis
Extraction Bench Sheets/Run Logs

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OA82

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

Tributyl Tin – Soil / Sediment

Microwave (3546) (SOP # 397S)

Preparation Test TBT # 4

ARI Job No(s) OA82, OB25

In-House
Batch set up by: JP

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted	Turbo Vap 1 2 3 **Exchange To Hexane**	**(REQ)** Derivitize **(1:1)**	**(REQ)** Alumina Clean-up **(1:1)**	Turbo Vap 1 2 3	Final Effective Volume	Volume to Lab	Comments
	OA82 MB	Date 11/25/8	5.00g		4mL	4mL		0.5mL	0.5mL	
	SB	↓	↓		↓	↓		↓	↓	
	~~SB Dup.~~		↓		↓	↓		↓	↓	
3	OA82 A	check	8.08							Homogeneize 11/25/08 WC
↓	↓ A dup		8.14							
1	OB25 A		6.02							
	B		8.12							
	C		6.10							
	D		9.18							
	E		7.12							
	F		6.14							
	G		6.24							
	H		6.56							
	I		6.28							
	J		7.24							
	K		6.06							
	KMS		6.12							Homogeneize 11/25/8 WC
↓	V KMSD	↓	6.00							
Analyst/Date:			WC 11/25/08		TH 11/26/08	WW 11/26/08		IR 11/26/08		

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	**L**	**25µL**	12/18/08	TKY	WC
Spike	**8**	**25µL**	12/15/08	TKY	WC
Extraction Time:	12:45				

SPECIAL INSTRUCTIONS: 1. Weigh samples into 100mL beakers-dry with Sodium Sulfate. 2. Pre-Rinse microwave vessel with 0.10% Tropolone in DCM. 3. Transfer soil to microwave vessel. 4. Add 20mL 0.10% Tropolone in DCM to vessel (if needed-Add 5mL increments until solvent is 1" above soil layer). 5. Add surr/spike. 6. Mix samples thoroughly before microwaving. 7. Microwave on appropriate power setting determined by # of samples. 8. After microwave-let cool 10-15 min. 9. Collect into turbo tube with sm. Funnel containing glasswool and 1" sodium sulfate. 10. Add (2) 10mL Hexane rinses to vessel and transfer to turbo tube. 11. TurboVap to 4mL and add 10mL Hexane. 12. TurboVap to 3mL-Transfer with Hexane to 40mL VOA vial. 13. Derivitize=1 pipet HexMgBr (Mix by hand). Let sit 45min (mix every 10 min). Add (2) pipet 1:1 HCL. Vortex. Draw off/discard HCL. Add 1 pipet 1:1 HCL and 5mL DI H2O. Vortex. Draw off/discard H20. Add 5mL DI H2O. Vortex. Draw off/discard H2O. 14. Add sodium sulfate-Let sit 15min. 15. 5 g 0% Alumina Clean-up Required. 16. TurboVap. 17. Vial.

A. Archive Y / N

freeze OA82 only

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory
Analyst Notes

ARI Job No.: QA82

Client ID: Anchor Environmental, LLC

Parameter: TBT

Client Project: Eddon Boatyard

SOP Number(s): 397 S

No Anomalies:

List problems, concerns, corrective actions and any other pertinent information

Sample A was very wet and contained water. 11/24/08 WC

Analyst Initials:		**Date:**	

056F

Revision 006
1/12/07

Extractions Total Solids-extts
Data By: Woo suk Chang
Created: 11/24/08

Worklist: 3759
Analyst: WC
Comments:

	ARI ID / CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1.	OA82A 08-31459 EB-SE-03-Z-081018 COMPOSITE	1.18g	14.26g		94.6	NR

Analytical Resources Inc.: Organics Instrument Log

NT-1 (Serial No.: Mass Spec = 3341A01294; Mass Spec GC = 3336A53338)

Date: 7.26.2008 Analysis: TBTS Analyst: VTS

GC Program: NT1BTS Column No: 132730 Column Type: ZB-5ms;

Instrument Tune (.U or .CT.): 080416.U EM Voltage: 2247

Calibration File: df0726 Curve Date: 7.26.2008

IS/SS	Ical/Ccal	LCS/ICV
(1487-3)	(1531-1)	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt

	Time	Filename	LabID	ClientId	DF				
1	1256	df0726.d	DF0726		1	NO ISTDS FOUND			
2	1315	ic0726a.d	IC0726A		1	9.54	186163	10.47	218239
3	1333	ic0726b.d	IC0726B		1	9.54	208535	10.47	219645
4	1352	ic0726c.d	IC0726C		1	9.54	177095	10.47	210652
5	1411	ic0726d.d	IC0726D		1	9.54	202249	10.49	221636
6	1430	ic0726e.d	IC0726E		1	9.54	179160	10.47	211213
7	1448	ic0726f.d	IC0726F		1	9.54	190552	10.47	221398
8	1516	nf21cdl.d	NF21C	RF26SS000005	2	9.54	168155	10.49	196484
9	1535	nf21j.d	NF21J	RF36SS000005	1	9.54	241852	10.47	263700
10	1554	nf21k.d	NF21K	RF37SS000005	1	9.54	221530	10.47	245232
11	1612	nf21l.d	NF21L	RF39SS000005	1	9.54	242349	10.47	267194
12	1631	nf21m.d	NF21M	RF40SS000005	1	9.54	234080	10.47	259845
13	1649	nf21n.d	NF21N	RF42SS000005	1	9.54	240274	10.47	275013
14	1708	nf21o.d	NF21O	RF43SS000005	1	9.54	250828	10.47	269609
15	1727	nf21p.d	NF21P	RF45SS000005	1	9.54	228893	10.47	256932
16	1745	nf21q.d	NF21Q	RF46SS000005	1	9.54	227077	10.47	252625
17	1804	nf21r.d	NF21R	RF49SS000005	1	9.54	240291	10.47	263532
18	1823	nf21rms.d	NF21RMS	RF49SS000005 MS	1	9.54	233595	10.47	258050
19	1841	nf21rmsd.d	NF21RMSDRF49SS000005 MSD		1	9.54	243640	10.47	268339
20	1900	nf22mb.d	NF22MBS1	NF22MBS1	1	9.54	219436	10.47	236576
21	1919	nf22sb.d	NF22LCSS1	NF22LCSS1	1	9.54	212755	10.47	226944
22	1937	nf22sbd.d	NF22LCSDS1	NF22LCSDS1	1	9.54	211001	10.47	230172

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt

	Time	Filename	LabID	ClientId	DF				
23	1956	nf22a.d	NF22A	GB01TSS000005	1	9.54	206820	10.47	224038
24	2014	nf22ams.d	NF22AMSGB01TSS00005	MS	1	9.54	211632	10.47	231191
25	2033	nf22b.d	NF22B	GB02TSS000005	1	9.54	212099	10.47	235424
26	2052	nf22c.d	NF22C	GB03SS000005	1	9.54	210179	10.47	235145
27	2110	nf22d.d	NF22D	RF01SS000005	1	9.54	218455	10.47	238155
28	2129	nf22e.d	NF22E	RF02SS000005	1	9.54	225915	10.47	243798
29	2147	nf22f.d	NF22F	RF03SS000005	1	9.54	217265	10.47	239841
30	2206	nf22g.d	NF22G	RF04SS000005	1	9.54	215382	10.47	232984
31	2224	nf22h.d	NF22H	RF05SS000005	1	9.54	217294	10.47	239869
32	2243	nf22i.d	NF22I	RF06SS000005	1	9.54	230794	10.48	248352
33	2301	nf22j.d	NF22J	RF08SS000005	1	9.54	228280	10.47	248628
34	2320	nf22k.d	NF22K	GB02BSS000005	1	9.54	228308	10.47	251311
35	2339	nf22l.d	NF22L	GB02ASS000005	1	9.54	225664	10.47	243798
36	2357	nf22m.d	NF22M	GB01ASS000005	1	9.54	236186	10.47	258756
37	0016	nf22n.d	NF22N	GB01BSS000005	1	9.54	228666	10.47	249265
38	0035	nf22o.d	NF22O	GB01CSS000005	1	9.54	231777	10.47	254176
39	0053	nf22p.d	NF22P	GB01SS000005-1	1	9.54	221402	10.47	243532

Maintenance / Comments NONE

VTS 7.29.2008

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): IC0726A

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

Project ID: TBT CurvB Client ID: _____

SOP: **801S**(SIM-PNA) **802S**(BTS-HX) **803S**(BTS-PW) **804S**(8270D) **805S**(BTS-ET)

ameter(s): TBT 1 S

rument: NT-1 NT-2 NT-4 NT-6

ve Date: 7.26.2008 Analysis Start Date: _____

PP Tune Meets Criteria?	YES / NO	Method Blank in Control?	YES / NO
Breakdown <20%?	YES / NO / NA	LCS / LCSD Recovery in Control?	YES / NO
k Tailing Factor in Control?	YES / NO / NA	MS/MSD Recovery in Control?	YES / NO
Meets RF & %RSD Criteria?	YES / NO	Surrogate Recovery in Control?	YES / NO
l Meets RF & %RSD Criteria?	YES / NO	Special Analysis Criteria Met?	YES / NO / NA
rnal Standard Meets Criteria?	YES / NO		

ail problems, corrective actions and/or other pertinent information below (use reverse side n necessary):

- All targets met 15% RSD.

itional Details on Reverse: Yes / No

lyst Signature: _____ **Date:** 7.29.2008

iewer's Signature: _____ **Date:** 7/29/08

Analytical Resources Inc.: Organics Instrument Log

NT-1 (Serial No.: Mass Spec = 3341A01294; Mass Spec GC = 3336A53338)

Date: 12/01/08 Analysis: TRT Analyst: YZ

GC Program: NT1BTS Column No: 132730 Column Type: ZB 5MSi

Instrument Tune (.U or .CT.): 081002 EM Voltage: 2494

Calibration File: DF1201 Curve Date: 7/26/2008

IS/SS	Ical/Ccal	LCS/ICV
(1487-3)	1531-1	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt1.i/

	Time	Filename	LabID	ClientId	DF				
1	1201	df1201.d	DF1201		1	NO ISTDS FOUND			
2	1220	cc1201.d	CC1201		1	9.13	181050	10.02	194353
3	1324	ob24l2.d	OB24L	811113-36	2	9.13	220097	10.02	238205
4	1343	ob25i.d	OB25I	811113-66	1	9.13	212777	10.02	221615
5	1401	ob25j.d	OB25J	811113-67	1	9.13	215607	10.02	223320
6	1419	ob25k.d	OB25K	811113-68	1	9.13	213012	10.02	235678
7	1438	ob25kms.d	OB25KMS	811113-68 MS	1	9.13	208036	10.02	218515
8	1456	ob25kmsd.d	OB25KMSD	811113-68 MSD	1	9.13	197124	10.02	209208
9	1515	oa82a5.d	OA82A	EB-SE-03-Z-081018 C	5	9.13	226431	10.02	250399
10	1533	oa82adp5.d	OA82ADUP	EB-SE-03-Z-0810 DUP	5	9.13	226311	10.02	245914

YZ 12.2.2008

Maintenance / Comments NONE

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): CC1201

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: OA82 Client ID: Anchor

ARI SOP: **801S**(SIM-PNA) **802S**(BTS-HX) **803S**(BTS-PW) **804S**(8270D) **805S**(BTS-ET)

Parameter(s): TBT

Instrument: NT-1 NT-2 NT-4 NT-6

Curve Date: 7.26.2008 Analysis Start Date: 11.29.2008

DFTPP Tune Meets Criteria?	YES / NO	Internal Standard Meets Criteria?	YES / NO
DDT Breakdown <20%?	YES / NO / NA	Method Blank in Control?	YES / NO
Peak Tailing Factor in Control?	YES / NO / NA	LCS / LCSD Recovery in Control?	YES / NO
ICal Meets RF & %RSD Criteria?	YES / NO	Surrogate Recovery in Control?	YES / NO
CCal Meets RF & %RSD Criteria?	YES / NO	Special Analysis Criteria Met?	YES / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

- Sample A, ADUP reported at 5X.
- Did not report 1X runs, Lims unable to accomodate ADUP DL and ADUP reported together.
- Full package.

Additional Details on Reverse: Yes / No

Analyst Signature: _____ **Date:** 12.2.2008

Reviewer's Signature: _____ **Date:** 12/3/08

Metals Analysis
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OA82

prepared
by

Analytical Resources, Inc.

Cover Page

INORGANIC ANALYSIS DATA PACKAGE

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

SDG: OA82

CLIENT ID	ARI ID	ARI LIMS ID	REPREP
EB-SE-03-Z-081018	OA82A	08-31459	
EB-SE-03-Z-081018D	OA82ADUP	08-31459	
PBS	OA82MB1	08-31459	
LCSS	OA82MB1SPK	08-31459	

Were ICP interelement corrections applied ?	Yes/No	YES
Were ICP background corrections applied ?	Yes/No	YES
If yes - were raw data generated before application of background corrections ?	Yes/No	NO

Comments: _____

THIS DATA PACKAGE HAS BEEN REVIEWED AND AUTHORIZED FOR RELEASE BY:

Signature: _____ Name: Jay Kuhn

Date: 12/10/08 Title: Inorganics Director

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: EB-SE-03-Z-081018 COMPOSITE DUPLICATE

Lab Sample ID: OA82A
LIMS ID: 08-31459
Matrix: Sediment
Data Release Authorized:
Reported: 12/09/08

QC Report No: OA82-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 11/20/08
Date Received: 11/20/08

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Copper	6010B	104	95.3	8.7%	+/- 20%	

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: LAB CONTROL**

Lab Sample ID: OA82LCS
LIMS ID: 08-31459
Matrix: Sediment
Data Release Authorized:
Reported: 12/09/08

QC Report No: OA82-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Copper	6010B	50.5	50.0	101%	

Reported in mg/kg-dry

N-Control limit not met
NA-Not Applicable, Analyte Not Spiked
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Sample ID: METHOD BLANK

Lab Sample ID: OA82MB
LIMS ID: 08-31459
Matrix: Sediment
Data Release Authorized:
Reported: 12/09/08

QC Report No: OA82-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	11/24/08	6010B	12/08/08	7440-50-8	Copper	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

UNITS: ug/L

SDG: OA82

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Copper	CU	ICP	IP120821	1000.0	1027.53	102.8	1000.0	1035.31	103.5	1036.26	103.6						

Control Limits: Mercury 80-120; Other Metals 90-110

CRDL Standard

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

UNITS: ug/L

SDG: OA82

ANALYTE	EL	M	RUN	CRA/I	TV	CR-1	%R	CR-2	%R	CR-3	%R	CR-4	%R	CR-5	%R	CR-6	%R
Copper	CU	ICP	IP120821		2.0	1.83	91.5										

Control Limits: no control limits have been established by the EPA at this time.

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

SDG: OA82

UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	ICB	C	CCB1	C	CCB2	C	CCB3	C	CCB4	C	CCB5	C
Copper	CU	ICP	IP120821	25.0	2.0	2.0	U	2.0	U	2.0	U						

ICP Interference Check Sample

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

ICS SOURCE: I.V.

PROJECT: EDDON BOATYARD

RUNID: IP120821

SDG: OA82

INSTRUMENT ID: OPTIMA ICP 1

UNITS: ug/L

ANALYTE	ICSA TV	ICSAB TV	ICSA1	ICSAB1	%R	ICSA2	ICSAB2	%R	ICSA3	ICSAB3	%R
Aluminum	200000	200000	198537.0	200790.4	**100.4**						
Antimony		1000	-11.8	1053.2	**105.3**						
Arsenic		1000	10.7	1050.0	**105.0**						
Barium		1000	-0.7	963.3	**96.3**						
Beryllium		1000	0.1	1040.8	**104.1**						
Boron			9.9	9.3							
Cadmium		1000	1.1	1007.1	**100.7**						
Calcium	100000	100000	99965.7	100565.7	**100.6**						
Chromium		1000	3.9	958.2	**95.8**						
Cobalt		1000	0.3	923.3	**92.3**						
Copper		1000	1.8	1037.0	**103.7**						
Iron	200000	200000	198579.3	199340.2	**99.7**						
Lead		1000	3.1	983.8	**98.4**						
Magnesium	100000	100000	100713.4	103241.2	**103.2**						
Manganese		1000	-0.2	959.1	**95.9**						
Molybdenum			2.1	4.1							
Nickel		1000	-7.8	966.3	**96.6**						
Potassium			-159.5	-170.1							
Selenium		1000	-43.1	994.2	**99.4**						
Silicon			41.8	42.3							
Silver		1000	0.5	1099.8	**110.0**						
Sodium			106.4	113.6							
Strontium			2.2	2.1							
Thallium		1000	-21.6	940.2	**94.0**						
Tin			-3.5	-3.6							
Titanium			5.9	5.9							
Vanadium		1000	-0.3	1002.7	**100.3**						
Zinc		1000	-11.0	947.2	**94.7**						

IDLs and ICP Linear Ranges

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

SDG: OA82 UNITS: ug/L

ANALYTE	EL	METH	INSTRUMENT	WAVELENTH (nm)	GFA BACK-GROUND	CLP CRDL	RL	RL DATE	ICP LINEAR RANGE (ug/L)	ICP LR DATE
Copper	CU	ICP	OPTIMA ICP 1	324.75		25	2.0	3/1/2008	40000.0	7/19/2008

ICP Interelement Correction Factors

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

IEC DATE: 11/28/2008

SDG: OA82

INSTRUMENT ID: OPTIMA ICP 1

ANALYTE	WAVELENGTH	AL	AS	BA	BE	CA	CD	CO	CR	CU	FE
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	1.2732700	14.5309000	0.0000000	0.0000000
Arsenic	188.98	0.2833790	0.0000000	0.0000000	0.0000000	0.1018490	0.0000000	0.1353450	1.3938700	0.0000000	0.1145170
Barium	233.53	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.2427830	0.0000000	0.0000000	0.0527236
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	3.8834600	0.0000000	0.0000000	0.0000000	0.0000000	0.1148400	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	1.2165400	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.1207060	0.0000000	0.0000000	-0.0271369
Cobalt	228.62	0.0000000	0.0000000	0.2332610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.3649680	-0.0508337	0.0000000	-0.0881507
Iron	273.96	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.6286400	0.0000000	0.0000000
Lead	220.35	-0.4009660	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-1.9186900	1.3143900	0.0423960
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-1.8711800	-1.0657700	0.0000000	0.4724420
Manganese	257.61	0.0121268	0.0000000	0.0000000	0.0000000	0.0041367	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0271856	0.0000000	0.0419030	0.0000000	-0.1092540	0.0294891	0.0921328	0.0000000
Nickel	231.60	0.0310880	0.0000000	0.4983500	0.0000000	0.0109293	0.0000000	0.2238930	0.0000000	0.0000000	0.0292052
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	-0.1811330	0.0000000	0.0000000	0.0000000	-0.1334170	0.0000000	0.0000000	0.0000000	0.0000000	-0.2695850
Silicon	288.16	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-3.9507100	0.0000000	-0.9138100	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0857551	-0.0433254
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.0000000	0.0000000	-0.9027370	0.0000000	0.0000000	0.0000000	7.0294700	0.3132260	0.0000000	0.0000000
Tin	189.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0703695
Titanium	334.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.2648950	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-6.5185000	0.0000000	0.0748076
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	-0.0377260	0.0000000	0.0000000	0.3322470	0.0000000	0.0000000

OA82 09119

ICP Interelement Correction Factors

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

IEC DATE: 11/28/2008

SDG: OA82

INSTRUMENT ID: OPTIMA ICP 1

ANALYTE	WAVELENGTH	MG	MN	MO	NI	PB	SB	TI	TL	V	ZN
Aluminum	308.22	0.0000000	0.0000000	23.0550000	0.0000000	0.0000000	0.0000000	0.7781760	0.0000000	13.6611000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-2.6770800	0.0000000	-5.2836000	0.0000000
Arsenic	188.98	0.0000000	0.4936670	4.7372600	0.1042370	0.0000000	-0.4305420	1.8128300	0.0000000	3.0445100	0.1894490
Barium	233.53	0.0000000	0.0000000	-0.1166780	0.2757250	0.0000000	0.0000000	0.0000000	0.0000000	0.4678230	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0152698	0.0000000	2.5974700	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	-0.2426340	0.0000000	0.0000000	0.0000000	0.0000000	0.0721945	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0413785	0.1791180	0.0888594	0.0000000	0.0000000	0.0000000	0.0488191	0.0000000	0.2223410	0.0000000
Cobalt	228.62	0.0000000	0.0000000	-0.4392950	0.0951613	0.0000000	0.0000000	1.9019500	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.3787470	0.0000000	0.0000000	0.0000000	0.1893670	0.0000000	0.0000000	0.0000000
Iron	273.96	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	1.3129600	0.0000000
Lead	220.35	0.0000000	0.0000000	-0.3024400	0.2396540	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	-1.7766400	-2.2128300	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	-0.5195260	0.0390086	0.0000000	0.0000000	-0.0374540	0.0000000
Molybdenum	202.03	0.0098559	0.0000000	0.0000000	0.0941824	-0.0211812	0.0000000	-0.0446269	0.0000000	0.0000000	-0.2152140
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.8345070	0.0000000	0.3671190	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0000000	0.0000000	0.5569670	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	288.16	-0.1746950	0.0000000	-2.0250800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0393833	0.0000000	-0.1702720	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	200.9930000	0.0000000	0.0000000	395.0870000
Thallium	190.80	0.0000000	1.6117800	2.0980400	0.0000000	0.0981087	0.0000000	1.5805300	0.0000000	4.7416800	0.0000000
Tin	189.93	-0.0392988	0.0000000	0.0000000	0.0000000	0.0000000	-0.4200130	-0.3361450	0.0000000	0.0000000	0.0000000
Titanium	334.90	0.0000000	0.0000000	0.9267120	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	-0.1237460	-7.7519200	0.0000000	0.0000000	0.0000000	0.7845100	0.0000000	0.0000000	0.0000000
Zinc	206.20	-0.0516239	0.3197280	0.3020600	0.0000000	-0.1262840	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

OA82 09151

Preparation Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

SDG: OA82

ANALYSIS METHOD: ICP

ARI PREP CODE: SWC

PREPDATE: 11/24/2008

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
EB-SE-03-Z-081018	OA82A	1.078	0.0	50.0
EB-SE-03-Z-081018D	OA82ADUP	1.079	0.0	50.0
PBS	OA82MB1	1.000	0.0	50.0
LCSS	OA82MB1SPK	1.000	0.0	50.0

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD | INSTRUMENT ID: OPTIMA ICP 1 | START DATE: 12/8/2008

SDG: OA82 | RUNID: IP120821 | METHOD: ICP | END DATE: 12/8/2008

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
S0	S0	1.00	11250												X																		
S2	S2	1.00	11314												X																		
S3	S3	1.00	11360																														
S4	S4	1.00	11415																														
S5	S5	1.00	11464																														
S0	S0	1.00	12100												X																		
ICV	ICV	1.00	12144												X																		
ICB	ICB	1.00	12212												X																		
CRI	CRII	1.00	12280												X																		
ICSA	ICSAI	1.00	12343												X																		
ICSAB	ICSABI	1.00	12412												X																		
CCV	CCV1	1.00	12483												X																		
CCB	CCB1	1.00	12551												X																		
ZZZZZZ	DICHECK	1.00	13015																														
ZZZZZZ	OB35MB1	2.00	13083																														
PBS	OA82MB1	2.00	13150												X																		
ZZZZZZ	QC21	1.00	13214																														
ZZZZZZ	QC7M	1.00	13282																														
ZZZZZZ	OB35A	2.00	13350																														
EB-SE-03-Z-081018	OA82A	2.00	13413												X																		
EB-SE-03-Z-081018D	OA82ADUP	2.00	13475												X																		
LCSS	OA82MB1SPK	2.00	13542												X																		
ZZZZZZ	OB35MB1SPK	2.00	14010																														
CCV	CCV2	1.00	14074												X																		
CCB	CCB2	1.00	14142												X																		

OA82:00113

Metals Analysis
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OA82

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: EB-SE-03-Z-081018 COMPOSITE SAMPLE

Lab Sample ID: OA82A
LIMS ID: 08-31459
Matrix: Sediment
Data Release Authorized:
Reported: 12/09/08

QC Report No: OA82-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 11/20/08
Date Received: 11/20/08

Percent Total Solids: 61.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	11/24/08	6010B	12/08/08	**7440-50-8**	**Copper**	0.3	**104**	

U-Analyte undetected at given RL
RL-Reporting Limit

Metals Analysis
Instrument Raw Data and Run Logs

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OA82

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

OPTIMA ICP SAMPLE RUN LOG

IEC Date: 11.28.08 Analysis Date: 12.8.08 Analyst: BW

LR Date: 1.24.08 Page: 1 of 8

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		Std 0			2550-13
		2			2551-6
		3			-7
		4			-8
		5			-9
		0			
		ICV			2540-1
		ICB			
		CRI			
		ICSA			
		ICSAB			
		CCV 1			
		CCB 1			
		DI check			
		OB35 MB1	SWC	2	
		OA82 MB1	↓	↓	✓
		QC21			
		QC7M			Si 112%
		OB35A	SWC	2	
		OA82 A			✓
		Adup			✓
		MBlspk			✓
		OB35 MBlspk	↓	↓	✓
		CCV2			

OA82:00147

Analytical Resources, Incorporated
Analytical Chemists and Consultants

OPTIMA ICP SAMPLE RUN LOG

IEC Date: — Analysis Date: 12.8.08 Analyst: RW

LR Date: — Page: 2 of 6

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		CCB 2			end package
	✓	0A85 MB1	TWC		CBout (Mn)
		SAR blank			info
		A			
		B			
	✓	0A85 A	TWC		CBout
		B			
		C			
OA	✓	D			Ca high - rerun 1/2
		E			
		MB1spk			
		CCV			
		CCB			Mn high
	✓	0C04 MB	SWC	2	CBout
	✓	0B23 F			Fe high - rerun 1/10
	✓	0C04 F			rerun 1/5
		L			
		O			
		R			
	✓	Adup			Fe high - rerun 1/5
		A			
		1spk			
		MB5pk			
		CCV			

12.9.8

ANALYTICAL RESOURCES INCORPORATED

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA **Analysis Date:** 12.8.08

	Analyst BW 12.9	Peer TK 12.9	Comment
Logbook:			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration:			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
Calibration Verification:			
ICV/CCV	✓	✓	see log
ICB/CCB	✓	✓	↓
Samples:			
RSD's & SD's	✓	✓	
Internal Standards	✓	✓	
Carry-over	✓	—	see log
Method QC:			
CRI/CRA	✓	✓	
ICSA/ICSAB	✓	✓	
Post Spikes/Serial Dilutions	—	—	
Analytic Spikes	—	—	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	QC04 QC29
Matrix Duplicates	✓	✓	↓
Method Blanks	✓	✓	
Data Distribution:			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
Necessary Analysts Notes and CAF's	✓	✓	QC04 QC29

Nebulizer Parameters: Hg_ReAlign

Analyte	Back Pressure	Flow
All	120.0 kPa	0.50 L/min

==========

12/8/2008 10:56:27 AM Hg ReAlign... Actual peak offset (nm): -0.001
Drift (nm): -0.001 Slit adjustment: -2

==========

==========

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	223814.5
-1.6	15.0	304181.4
-1.2	15.0	402625.7
-0.8	15.0	506678.2
-0.4	15.0	591473.4
0.0	15.0	630921.4
0.4	15.0	616253.8
0.8	15.0	551406.2
1.2	15.0	471561.2
1.6	15.0	392628.6
2.0	15.0	296329.6
0.0	10.0	7336.2
0.0	10.5	26280.5
0.0	11.0	45850.5
0.0	11.5	72025.7
0.0	12.0	101703.6
0.0	12.5	205336.4
0.0	13.0	288340.3
0.0	13.5	391255.2
0.0	14.0	477374.5
0.0	14.5	614348.9
0.0	15.0	627355.2
0.0	15.5	580964.7
0.0	16.0	520331.8
0.0	16.5	358397.3
0.0	17.0	273144.8
0.0	17.5	212078.4
0.0	18.0	149461.2
0.0	18.5	106384.9
0.0	19.0	38475.3
0.0	19.5	17369.3
0.0	20.0	8300.8
-0.8	15.0	514945.9
-0.4	15.0	596577.6
0.0	15.0	624510.9
0.4	15.0	617923.7
0.8	15.0	561758.1
0.0	13.0	310693.4
0.0	13.5	387840.8
0.0	14.0	478840.1
0.0	14.5	603981.5
0.0	15.0	638268.5
0.0	15.5	594643.8
0.0	16.0	555587.2
0.0	16.5	363481.1
0.0	17.0	268982.3

12/8/2008 11:01:03 AM aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 638268.5 for Axial viewing
Y viewing position set to 15.0 mm having Peak intensity 638268.5 for Axial viewing

==========

==========

Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	4795.0
-6.5	15.0	7121.1
-6.0	15.0	10333.3
-5.5	15.0	13590.1
-5.0	15.0	17773.2
-4.5	15.0	22753.1

-4.0	15.0	27292.4
-3.5	15.0	34639.8
-3.0	15.0	41424.4
-2.5	15.0	48507.6
-2.0	15.0	78351.2
-1.5	15.0	150265.6
-1.0	15.0	275397.0
-0.5	15.0	376018.4
0.0	15.0	363875.1
0.5	15.0	333328.4
1.0	15.0	279605.9
1.5	15.0	212960.1
2.0	15.0	155283.7
2.5	15.0	98078.4
3.0	15.0	51030.6
3.5	15.0	24249.8
4.0	15.0	19270.2
4.5	15.0	17086.3
5.0	15.0	16061.5
5.5	15.0	13002.4
6.0	15.0	9399.5
6.5	15.0	5648.9
7.0	15.0	2073.8

12/8/2008 11:03:53 AM aligned for analyte Mn 257.610
X viewing position set to -0.5 mm having Peak intensity 376018.4 for Radial viewing

Analysis Begun

Start Time: 12/8/2008 11:25:07 AM **Plasma On Time: 12/8/2008 10:03:07 AM**
Logged In Analyst: metals **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISET.sif
Batch ID:
Results Data Set: PE081208
Results Library: C:\pe\Administrator\Results\Results.mdb

Method Loaded
Method Name: ARIIEC6AN **Method Last Saved: 12/8/2008 8:24:28 AM**
IEC File: IEC38MIN.iec **MSF File:**
Method Description: 12Axial Elements

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Al 308.215	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
B 249.677	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Be 313.042	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cd 228.802	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Cr 267.716	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Fe 273.955	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Mg 279.077	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Na 330.237	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ni 231.604	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Si 288.158	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	ScR 361.383	No

Ti 334.903	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Zn 206.200	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
ScA 357.253	Lin, Calc Int	Peak Area	Axial	n/a	n/a
ScR 361.383	Lin, Calc Int	Peak Area	Radial	n/a	n/a

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: Calib Blank 1 **Date Collected: 12/8/2008 11:25:08 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	120.0 kPa	0.50 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2197249.2	9316.75	0.42%	100.00	%
ScR 361.383	147819.4	1423.99	0.96%	100.0	%
Ag 328.068†	3879.6	91.31	2.35%	[0.00]	mg/L
Al 308.215†	-525.3	22.11	4.21%	[0.00]	mg/L
As 188.979†	147.1	2.26	1.53%	[0.00]	mg/L
B 249.677†	-44.8	3.84	8.56%	[0.00]	mg/L
Ba 233.527†	82.8	7.37	8.91%	[0.00]	mg/L
Be 313.042†	-188.4	19.12	10.14%	[0.00]	mg/L
Ca 317.933†	341.2	25.81	7.57%	[0.00]	mg/L
Cd 228.802†	356.7	3.25	0.91%	[0.00]	mg/L
Co 228.616†	-12.9	5.53	42.70%	[0.00]	mg/L
Cr 267.716†	14.7	2.93	19.99%	[0.00]	mg/L
Cu 324.752†	1848.7	38.86	2.10%	[0.00]	mg/L
Fe 273.955†	-125.9	0.57	0.45%	[0.00]	mg/L
K 766.490†	4322.7	67.70	1.57%	[0.00]	mg/L
Mg 279.077†	-467.3	7.08	1.52%	[0.00]	mg/L
Mn 257.610†	-60.3	1.27	2.10%	[0.00]	mg/L
Mo 202.031†	-82.2	2.18	2.65%	[0.00]	mg/L
Na 589.592†	456.4	40.52	8.88%	[0.00]	mg/L
Na 330.237†	241.2	8.48	3.51%	[0.00]	mg/L
Ni 231.604†	24.2	1.08	4.47%	[0.00]	mg/L
Pb 220.353†	133.6	5.15	3.86%	[0.00]	mg/L
Sb 206.836†	-46.7	5.41	11.58%	[0.00]	mg/L
Se 196.026†	-93.1	7.91	8.50%	[0.00]	mg/L
Si 288.158†	-5.1	29.64	577.80%	[0.00]	mg/L
Sn 189.927†	18.6	3.12	16.80%	[0.00]	mg/L
Sr 421.552†	-80.1	24.36	30.41%	[0.00]	mg/L
Ti 334.903†	-194.4	11.46	5.90%	[0.00]	mg/L
Tl 190.801†	-85.5	2.36	2.76%	[0.00]	mg/L
V 292.402†	-984.7	24.71	2.51%	[0.00]	mg/L
Zn 206.200†	-43.7	1.97	4.51%	[0.00]	mg/L

Sequence No.: 2
Sample ID: STD2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 12/8/2008 11:31:43 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	120.0 kPa	0.50 L/min

Mean Data: STD2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2213198.1	18343.55	0.83%	100.7	%
ScR 361.383	149866.5	862.96	0.58%	101.4	%
Ba 233.527†	63308.7	184.79	0.29%	[10]	mg/L
Cd 228.802†	441042.4	2012.44	0.46%	[10]	mg/L
Co 228.616†	525012.8	1164.02	0.22%	[10]	mg/L
Cr 267.716†	37888.5	67.13	0.18%	[10]	mg/L
Cu 324.752†	2269615.5	2302.78	0.10%	[10]	mg/L
Mn 257.610†	271741.6	1130.38	0.42%	[10]	mg/L
V 292.402†	1216636.4	3662.04	0.30%	[10]	mg/L

Sequence No.: 3
Sample ID: STD3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/8/2008 11:36:09 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	120.0 kPa	0.50 L/min

Mean Data: STD3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2148278.0	13788.63	0.64%	97.77	%
ScR 361.383	150332.2	663.74	0.44%	101.7	%
Ag 328.068†	156125.7	1046.13	0.67%	[1.0]	mg/L
As 188.979†	11383.9	56.17	0.49%	[10]	mg/L
B 249.677†	15375.3	200.68	1.31%	[10]	mg/L
Be 313.042†	1090621.7	2847.93	0.26%	[5.0]	mg/L
Na 589.592†	97419.4	919.65	0.94%	[50]	mg/L
Ni 231.604†	10077.2	63.18	0.63%	[10]	mg/L
Pb 220.353†	73306.6	316.92	0.43%	[10]	mg/L
Se 196.026†	9266.6	53.46	0.58%	[10]	mg/L
Sr 421.552†	1248946.7	8405.96	0.67%	[5]	mg/L
Tl 190.801†	18919.1	160.46	0.85%	[10]	mg/L
Zn 206.200†	9471.6	74.22	0.78%	[10]	mg/L

Sequence No.: 4
Sample ID: STD4
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 12/8/2008 11:41:50 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD4

Analyte	Back Pressure	Flow
All	120.0 kPa	0.50 L/min

Mean Data: STD4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2204863.6	28710.85	1.30%	100.3	%
ScR 361.383	149143.1	1187.22	0.80%	100.9	%
Mo 202.031†	52746.5	952.88	1.81%	[10]	mg/L
Sb 206.836†	16994.2	268.95	1.58%	[10]	mg/L
Si 288.158†	16077.7	70.63	0.44%	[10]	mg/L
Sn 189.927†	29650.0	460.31	1.55%	[10]	mg/L
Ti 334.903†	190738.7	2548.47	1.34%	[10]	mg/L

Sequence No.: 5
Sample ID: STD5
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 12/8/2008 11:46:41 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	120.0 kPa	0.50 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2084644.2	14431.23	0.69%	94.88	%
ScR 361.383	144511.1	1165.62	0.81%	97.76	%
Al 308.215†	47857.4	20.04	0.04%	[30]	mg/L
Ca 317.933†	279411.4	1119.37	0.40%	[30]	mg/L
Fe 273.955†	121967.7	361.02	0.30%	[100]	mg/L
K 766.490†	100892.4	630.49	0.62%	[100]	mg/L
Mg 279.077†	33976.2	68.10	0.20%	[30]	mg/L
Na 330.237†	2096.1	33.25	1.59%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	156100	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1595	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	1138	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	1538	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	6331	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	218100	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	9314	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	44100	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	52500	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	3789	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	227000	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	1220	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	1009	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	1133	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	27170	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	5275	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	1948	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	20.96	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	1008	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	7331	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	1699	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	926.7	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1608	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	2965	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	249800	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	19070	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	1892	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	121700	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	947.2	0.00000	1.000000	

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Analysis Begun

Start Time: 12/8/2008 12:10:09 PM
Plasma On Time: 12/8/2008 10:03:07 AM
Logged In Analyst: metals
Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\1208A.sif
Batch ID:
Results Data Set: PE081208
Results Library: C:\pe\Administrator\Results\Results.mdb

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Sequence No.: 6
Autosampler Location:
Sample ID: Calib Blank 1
Date Collected: 12/8/2008 12:10:09 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	121.0 kPa	0.50 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2174184.9	10152.97	0.47%	98.95	%
ScR 361.383	147715.0	1013.73	0.69%	99.93	%
Ag 328.068†	3841.9	53.81	1.40%	[0.00]	mg/L
Al 308.215†	-523.3	18.25	3.49%	[0.00]	mg/L
As 188.979†	146.9	2.44	1.66%	[0.00]	mg/L
B 249.677†	-36.9	5.06	13.74%	[0.00]	mg/L
Ba 233.527†	84.2	6.29	7.47%	[0.00]	mg/L
Be 313.042†	-164.3	22.85	13.91%	[0.00]	mg/L
Ca 317.933†	305.4	23.54	7.71%	[0.00]	mg/L
Cd 228.802†	352.2	5.61	1.59%	[0.00]	mg/L
Co 228.616†	-9.5	5.64	59.50%	[0.00]	mg/L
Cr 267.716†	8.9	3.52	39.63%	[0.00]	mg/L
Cu 324.752†	2217.2	20.48	0.92%	[0.00]	mg/L
Fe 273.955†	-125.6	2.85	2.27%	[0.00]	mg/L
K 766.490†	4332.1	44.57	1.03%	[0.00]	mg/L
Mg 279.077†	-508.9	3.22	0.63%	[0.00]	mg/L
Mn 257.610†	-67.4	1.64	2.43%	[0.00]	mg/L
Mo 202.031†	-83.7	4.92	5.89%	[0.00]	mg/L
Na 589.592†	334.6	68.25	20.40%	[0.00]	mg/L
Na 330.237†	233.6	7.48	3.20%	[0.00]	mg/L
Ni 231.604†	27.1	0.94	3.45%	[0.00]	mg/L
Pb 220.353†	131.4	5.60	4.26%	[0.00]	mg/L
Sb 206.836†	-46.3	2.26	4.88%	[0.00]	mg/L
Se 196.026†	-89.7	9.13	10.17%	[0.00]	mg/L
Si 288.158†	-17.5	21.23	121.44%	[0.00]	mg/L
Sn 189.927†	16.7	0.59	3.52%	[0.00]	mg/L
Sr 421.552†	-87.4	24.16	27.65%	[0.00]	mg/L
Ti 334.903†	-152.4	8.85	5.81%	[0.00]	mg/L
Tl 190.801†	-88.8	5.65	6.36%	[0.00]	mg/L
V 292.402†	-998.8	13.97	1.40%	[0.00]	mg/L
Zn 206.200†	-41.2	2.21	5.37%	[0.00]	mg/L

Analysis Begun

Start Time: 12/8/2008 12:14:47 PM
Plasma On Time: 12/8/2008 10:03:07 AM
Logged In Analyst: metals
Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\1208A.sif
Batch ID:
Results Data Set: PE081208
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Autosampler Location: 7
Sample ID: CV
Date Collected: 12/8/2008 12:14:47 PM
Analyst: BLW
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution: 1X
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	120.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2146019.7	97.67	%	0.980				1.00%
ScR 361.383	148986.2	100.8	%	0.45				0.44%
Ag 328.068†	163901.7	1.050	mg/L	0.0073	1.050	mg/L	0.0073	0.70%
Al 308.215†	3203.5	1.971	mg/L	0.0122	1.971	mg/L	0.0122	0.62%
As 188.979†	2307.6	2.015	mg/L	0.0237	2.015	mg/L	0.0237	1.17%
B 249.677†	1477.8	0.9592	mg/L	0.00152	0.9592	mg/L	0.00152	0.16%
Ba 233.527†	5976.6	0.9436	mg/L	0.00555	0.9436	mg/L	0.00555	0.59%
Be 313.042†	215098.8	0.9836	mg/L	0.00498	0.9836	mg/L	0.00498	0.51%
Ca 317.933†	18875.1	2.025	mg/L	0.0115	2.025	mg/L	0.0115	0.57%
Cd 228.802†	44825.9	1.009	mg/L	0.0099	1.009	mg/L	0.0099	0.98%
Co 228.616†	50979.6	0.9692	mg/L	0.00667	0.9692	mg/L	0.00667	0.69%
Cr 267.716†	3570.0	0.9418	mg/L	0.00727	0.9418	mg/L	0.00727	0.77%
Cu 324.752†	233207.1	1.028	mg/L	0.0086	1.028	mg/L	0.0086	0.84%
Fe 273.955†	2437.5	1.997	mg/L	0.0174	1.997	mg/L	0.0174	0.87%
K 766.490†	20002.4	19.83	mg/L	0.095	19.83	mg/L	0.095	0.48%
Mg 279.077†	2301.2	2.038	mg/L	0.0156	2.038	mg/L	0.0156	0.76%
Mn 257.610†	25802.1	0.9505	mg/L	0.00380	0.9505	mg/L	0.00380	0.40%
Mo 202.031†	5219.8	0.9897	mg/L	0.00769	0.9897	mg/L	0.00769	0.78%
Na 589.592†	94773.0	48.64	mg/L	0.205	48.64	mg/L	0.205	0.42%
Na 330.237†	1066.5	50.68	mg/L	0.550	50.68	mg/L	0.550	1.09%
Ni 231.604†	991.6	0.9843	mg/L	0.00477	0.9843	mg/L	0.00477	0.48%
Pb 220.353†	14877.0	2.031	mg/L	0.0080	2.031	mg/L	0.0080	0.40%
Sb 206.836†	3581.6	2.106	mg/L	0.0189	2.106	mg/L	0.0189	0.90%
Se 196.026†	1842.4	1.989	mg/L	0.0175	1.989	mg/L	0.0175	0.88%
Si 288.158†	3424.7	2.133	mg/L	0.0173	2.133	mg/L	0.0173	0.81%
Sn 189.927†	2683.5	0.9062	mg/L	0.00688	0.9062	mg/L	0.00688	0.76%
Sr 421.552†	259019.4	1.037	mg/L	0.0040	1.037	mg/L	0.0040	0.38%
Ti 334.903†	19012.8	0.9956	mg/L	0.00512	0.9956	mg/L	0.00512	0.51%
Tl 190.801†	3742.0	1.962	mg/L	0.0192	1.962	mg/L	0.0192	0.98%
V 292.402†	119039.6	0.9914	mg/L	0.00694	0.9914	mg/L	0.00694	0.70%
Zn 206.200†	959.9	1.013	mg/L	0.0057	1.013	mg/L	0.0057	0.56%

Sequence No.: 2
Sample ID: CB
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 12/8/2008 12:21:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	120.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2179940.4	99.21	%	0.776				0.78%
ScR 361.383	148669.9	100.6	%	1.23				1.23%
Ag 328.068†	123.4	0.00079	mg/L	0.000360	0.00079	mg/L	0.000360	45.51%
Al 308.215†	-4.4	-0.00276	mg/L	0.028370	-0.00276	mg/L	0.028370	>999.9%
As 188.979†	5.5	0.00479	mg/L	0.002450	0.00479	mg/L	0.002450	51.15%
B 249.677†	2.5	0.00162	mg/L	0.002033	0.00162	mg/L	0.002033	125.73%
Ba 233.527†	1.9	0.00029	mg/L	0.000441	0.00029	mg/L	0.000441	150.32%
Be 313.042†	1.8	0.00001	mg/L	0.000110	0.00001	mg/L	0.000110	>999.9%
Ca 317.933†	-4.9	-0.00053	mg/L	0.002479	-0.00053	mg/L	0.002479	471.43%
Cd 228.802†	2.7	0.00004	mg/L	0.000019	0.00004	mg/L	0.000019	43.79%
Co 228.616†	13.8	0.00026	mg/L	0.000158	0.00026	mg/L	0.000158	60.17%
Cr 267.716†	1.5	0.00040	mg/L	0.000820	0.00040	mg/L	0.000820	207.50%
Cu 324.752†	131.7	0.00058	mg/L	0.000385	0.00058	mg/L	0.000385	66.30%
Fe 273.955†	-0.6	-0.00052	mg/L	0.000823	-0.00052	mg/L	0.000823	158.26%
K 766.490†	43.6	0.04324	mg/L	0.058208	0.04324	mg/L	0.058208	134.61%
Mg 279.077†	-7.5	-0.00658	mg/L	0.008307	-0.00658	mg/L	0.008307	126.28%
Mn 257,610†	7.3	0.00027	mg/L	0.000148	0.00027	mg/L	0.000148	55.13%
Mo 202.031†	3.1	0.00058	mg/L	0.000865	0.00058	mg/L	0.000865	149.40%
Na 589.592†	125.8	0.06455	mg/L	0.015214	0.06455	mg/L	0.015214	23.57%
Na 330.237†	12.8	0.6125	mg/L	0.28829	0.6125	mg/L	0.28829	47.06%
Ni 231.604†	1.8	0.00181	mg/L	0.003054	0.00181	mg/L	0.003054	168.33%
Pb 220.353†	-0.4	-0.00006	mg/L	0.000371	-0.00006	mg/L	0.000371	591.35%
Sb 206.836†	-2.8	-0.00166	mg/L	0.003937	-0.00166	mg/L	0.003937	237.27%
Se 196.026†	-5.4	-0.00579	mg/L	0.003206	-0.00579	mg/L	0.003206	55.35%
Si 288.158†	11.8	0.00736	mg/L	0.006273	0.00736	mg/L	0.006273	85.23%
Sn 189.927†	13.0	0.00439	mg/L	0.000587	0.00439	mg/L	0.000587	13.37%
Sr 421.552†	9.1	0.00004	mg/L	0.000070	0.00004	mg/L	0.000070	190.69%
Ti 334.903†	-2.2	-0.00011	mg/L	0.001810	-0.00011	mg/L	0.001810	>999.9%
Tl 190.801†	1.5	0.00080	mg/L	0.001765	0.00080	mg/L	0.001765	220.24%
V 292.402†	-27.9	-0.00022	mg/L	0.000313	-0.00022	mg/L	0.000313	141.02%
Zn 206.200†	-2.0	-0.00213	mg/L	0.001071	-0.00213	mg/L	0.001071	50.25%

Sequence No.: 3
Sample ID: CRI
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 21
Date Collected: 12/8/2008 12:28:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	120.0 kPa	0.50 L/min

Mean Data: CRI

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2215490.8	100.8	%	0.59				0.59%
ScR 361.383	150301.8	101.7	%	0.57				0.56%
Ag 328.068†	565.0	0.00362	mg/L	0.000683	0.00362	mg/L	0.000683	18.86%
Al 308.215†	69.9	0.04364	mg/L	0.016672	0.04364	mg/L	0.016672	38.21%
As 188.979†	68.9	0.06044	mg/L	0.004325	0.06044	mg/L	0.004325	7.16%
B 249.677†	24.8	0.01615	mg/L	0.001312	0.01615	mg/L	0.001312	8.12%
Ba 233.527†	12.5	0.00196	mg/L	0.000859	0.00196	mg/L	0.000859	43.72%
Be 313.042†	226.2	0.00103	mg/L	0.000051	0.00103	mg/L	0.000051	4.95%
Ca 317.933†	498.1	0.05347	mg/L	0.002436	0.05347	mg/L	0.002436	4.56%
Cd 228.802†	99.2	0.00202	mg/L	0.000095	0.00202	mg/L	0.000095	4.69%
Co 228.616†	163.3	0.00311	mg/L	0.000198	0.00311	mg/L	0.000198	6.39%
Cr 267.716†	25.2	0.00665	mg/L	0.001684	0.00665	mg/L	0.001684	25.31%
Cu 324.752†	414.4	0.00183	mg/L	0.000295	0.00183	mg/L	0.000295	16.14%
Fe 273.955†	69.2	0.05672	mg/L	0.002531	0.05672	mg/L	0.002531	4.46%
K 766.490†	483.3	0.4790	mg/L	0.06778	0.4790	mg/L	0.06778	14.15%
Mg 279.077†	70.0	0.06183	mg/L	0.006364	0.06183	mg/L	0.006364	10.29%
Mn 257.610†	34.5	0.00128	mg/L	0.000160	0.00128	mg/L	0.000160	12.54%
Mo 202.031†	29.4	0.00557	mg/L	0.001600	0.00557	mg/L	0.001600	28.71%
Na 589.592†	970.5	0.4981	mg/L	0.03178	0.4981	mg/L	0.03178	6.38%
Na 330.237†	13.5	0.6400	mg/L	0.52497	0.6400	mg/L	0.52497	82.03%
Ni 231.604†	9.5	0.00947	mg/L	0.001834	0.00947	mg/L	0.001834	19.38%
Pb 220.353†	144.9	0.01979	mg/L	0.000132	0.01979	mg/L	0.000132	0.67%
Sb 206.836†	90.5	0.05322	mg/L	0.000880	0.05322	mg/L	0.000880	1.65%
Se 196.026†	46.0	0.04972	mg/L	0.004387	0.04972	mg/L	0.004387	8.82%
Si 288.158†	121.1	0.07533	mg/L	0.007308	0.07533	mg/L	0.007308	9.70%
Sn 189.927†	33.5	0.01134	mg/L	0.000191	0.01134	mg/L	0.000191	1.69%
Sr 421.552†	253.4	0.00101	mg/L	0.000137	0.00101	mg/L	0.000137	13.52%
Ti 334.903†	63.5	0.00332	mg/L	0.002570	0.00332	mg/L	0.002570	77.35%
Tl 190.801†	94.8	0.05005	mg/L	0.004014	0.05005	mg/L	0.004014	8.02%
V 292.402†	371.6	0.00313	mg/L	0.000455	0.00313	mg/L	0.000455	14.51%
Zn 206.200†	7.6	0.00805	mg/L	0.002582	0.00805	mg/L	0.002582	32.08%

Sequence No.: 4
Sample ID: ICSA
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 22
Date Collected: 12/8/2008 12:34:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	120.0 kPa	0.50 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2075064.3	94.44	%	0.977				1.03%
ScR 361.383	151238.1	102.3	%	1.03				1.01%
Ag 328.068†	-1262.5	0.00052	mg/L	0.000401	0.00052	mg/L	0.000401	76.91%
Al 308.215†	316716.3	198.5	mg/L	0.62	198.5	mg/L	0.62	0.31%
As 188.979†	113.8	0.01068	mg/L	0.005056	0.01068	mg/L	0.005056	47.33%
B 249.677†	-39.0	0.00987	mg/L	0.003477	0.00987	mg/L	0.003477	35.22%
Ba 233.527†	61.7	-0.00073	mg/L	0.000528	-0.00073	mg/L	0.000528	72.26%
Be 313.042†	32.3	0.00011	mg/L	0.000110	0.00011	mg/L	0.000110	99.94%
Ca 317.933†	931051.5	99.97	mg/L	0.136	99.97	mg/L	0.136	0.14%
Cd 228.802†	66.6	0.00112	mg/L	0.000189	0.00112	mg/L	0.000189	16.86%
Co 228.616†	17.4	0.00032	mg/L	0.000130	0.00032	mg/L	0.000130	40.67%
Cr 267.716†	10.2	0.00390	mg/L	0.001296	0.00390	mg/L	0.001296	33.24%
Cu 324.752†	-3561.5	0.00181	mg/L	0.000043	0.00181	mg/L	0.000043	2.40%
Fe 273.955†	242202.6	198.6	mg/L	0.62	198.6	mg/L	0.62	0.31%
K 766.490†	-160.9	-0.1595	mg/L	0.04151	-0.1595	mg/L	0.04151	26.03%
Mg 279.077†	114168.1	100.7	mg/L	0.75	100.7	mg/L	0.75	0.74%
Mn 257.610†	71.9	-0.00021	mg/L	0.000280	-0.00021	mg/L	0.000280	134.05%
Mo 202.031†	38.2	0.00206	mg/L	0.001829	0.00206	mg/L	0.001829	88.73%
Na 589.592†	207.3	0.1064	mg/L	0.05088	0.1064	mg/L	0.05088	47.82%
Na 330.237†	1.3	0.06994	mg/L	0.897256	0.06994	mg/L	0.897256	>999.9%
Ni 231.604†	4.2	-0.00776	mg/L	0.006816	-0.00776	mg/L	0.006816	87.79%
Pb 220.353†	-499.6	0.00306	mg/L	0.001110	0.00306	mg/L	0.001110	36.24%
Sb 206.836†	-20.2	-0.01178	mg/L	0.004297	-0.01178	mg/L	0.004297	36.48%
Se 196.026†	-135.2	-0.04306	mg/L	0.002941	-0.04306	mg/L	0.002941	6.83%
Si 288.158†	38.8	0.04177	mg/L	0.007018	0.04177	mg/L	0.007018	16.80%
Sn 189.927†	19.4	-0.00348	mg/L	0.001886	-0.00348	mg/L	0.001886	54.24%
Sr 421.552†	557.4	0.00223	mg/L	0.000062	0.00223	mg/L	0.000062	2.76%
Ti 334.903†	112.2	0.00588	mg/L	0.000659	0.00588	mg/L	0.000659	11.22%
Tl 190.801†	-40.6	-0.02156	mg/L	0.001646	-0.02156	mg/L	0.001646	7.64%
V 292.402†	1768.2	-0.00025	mg/L	0.000174	-0.00025	mg/L	0.000174	68.82%
Zn 206.200†	-18.9	-0.01098	mg/L	0.002140	-0.01098	mg/L	0.002140	19.50%

Sequence No.: 5
Sample ID: ICSAB
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 23
Date Collected: 12/8/2008 12:41:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	120.0 kPa	0.50 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2066196.7	94.04	%	0.702				0.75%
ScR 361.383	147434.7	99.74	%	0.188				0.19%
Ag 328.068†	170349.4	1.100	mg/L	0.0009	1.100	mg/L	0.0009	0.08%
Al 308.215†	320332.8	200.8	mg/L	0.49	200.8	mg/L	0.49	0.25%
As 188.979†	1303.3	1.050	mg/L	0.0087	1.050	mg/L	0.0087	0.83%
B 249.677†	-34.7	0.00931	mg/L	0.002523	0.00931	mg/L	0.002523	27.09%
Ba 233.527†	6168.7	0.9633	mg/L	0.00348	0.9633	mg/L	0.00348	0.36%
Be 313.042†	227586.4	1.041	mg/L	0.0034	1.041	mg/L	0.0034	0.33%
Ca 317.933†	936650.5	100.6	mg/L	0.23	100.6	mg/L	0.23	0.22%
Cd 228.802†	44610.0	1.007	mg/L	0.0040	1.007	mg/L	0.0040	0.39%
Co 228.616†	48490.4	0.9233	mg/L	0.00137	0.9233	mg/L	0.00137	0.15%
Cr 267.716†	3627.1	0.9582	mg/L	0.00719	0.9582	mg/L	0.00719	0.75%
Cu 324.752†	231284.4	1.037	mg/L	0.0007	1.037	mg/L	0.0007	0.07%
Fe 273.955†	243133.0	199.3	mg/L	0.74	199.3	mg/L	0.74	0.37%
K 766.490†	-171.6	-0.1701	mg/L	0.03297	-0.1701	mg/L	0.03297	19.39%
Mg 279.077†	117026.3	103.2	mg/L	0.09	103.2	mg/L	0.09	0.08%
Mn 257.610†	26127.8	0.9591	mg/L	0.00317	0.9591	mg/L	0.00317	0.33%
Mo 202.031†	48.9	0.00412	mg/L	0.000886	0.00412	mg/L	0.000886	21.50%
Na 589.592†	221.4	0.1136	mg/L	0.00903	0.1136	mg/L	0.00903	7.95%
Na 330.237†	28.3	0.9823	mg/L	0.57050	0.9823	mg/L	0.57050	58.08%
Ni 231.604†	986.1	0.9663	mg/L	0.00616	0.9663	mg/L	0.00616	0.64%
Pb 220.353†	6681.7	0.9838	mg/L	0.00138	0.9838	mg/L	0.00138	0.14%
Sb 206.836†	1806.3	1.053	mg/L	0.0076	1.053	mg/L	0.0076	0.72%
Se 196.026†	825.9	0.9942	mg/L	0.00150	0.9942	mg/L	0.00150	0.15%
Si 288.158†	37.5	0.04226	mg/L	0.002135	0.04226	mg/L	0.002135	5.05%
Sn 189.927†	17.7	-0.00355	mg/L	0.002668	-0.00355	mg/L	0.002668	75.13%
Sr 421.552†	526.3	0.00211	mg/L	0.000044	0.00211	mg/L	0.000044	2.10%
Ti 334.903†	118.3	0.00594	mg/L	0.002305	0.00594	mg/L	0.002305	38.80%
Tl 190.801†	1802.1	0.9402	mg/L	0.00173	0.9402	mg/L	0.00173	0.18%
V 292.402†	123028.0	1.003	mg/L	0.0023	1.003	mg/L	0.0023	0.23%
Zn 206.200†	888.9	0.9472	mg/L	0.00363	0.9472	mg/L	0.00363	0.38%

Sequence No.: 6
Sample ID: CV
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 12/8/2008 12:48:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	120.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2126693.3	96.79	%	0.705				0.73%
ScR 361.383	148774.9	100.6	%	0.51				0.51%
Ag 328.068†	164810.1	1.056	mg/L	0.0100	1.056	mg/L	0.0100	0.95%
Al 308.215†	3248.9	1.999	mg/L	0.0119	1.999	mg/L	0.0119	0.59%
As 188.979†	2351.6	2.054	mg/L	0.0190	2.054	mg/L	0.0190	0.93%
B 249.677†	1492.6	0.9688	mg/L	0.01183	0.9688	mg/L	0.01183	1.22%
Ba 233.527†	6086.4	0.9609	mg/L	0.00885	0.9609	mg/L	0.00885	0.92%
Be 313.042†	221144.1	1.011	mg/L	0.0042	1.011	mg/L	0.0042	0.41%
Ca 317.933†	19459.4	2.088	mg/L	0.0053	2.088	mg/L	0.0053	0.25%
Cd 228.802†	45190.9	1.017	mg/L	0.0135	1.017	mg/L	0.0135	1.33%
Co 228.616†	51507.4	0.9793	mg/L	0.01097	0.9793	mg/L	0.01097	1.12%
Cr 267.716†	3639.6	0.9602	mg/L	0.00379	0.9602	mg/L	0.00379	0.39%
Cu 324.752†	234973.1	1.035	mg/L	0.0090	1.035	mg/L	0.0090	0.87%
Fe 273.955†	2496.2	2.045	mg/L	0.0155	2.045	mg/L	0.0155	0.76%
K 766.490†	20217.2	20.04	mg/L	0.261	20.04	mg/L	0.261	1.30%
Mg 279.077†	2346.2	2.077	mg/L	0.0197	2.077	mg/L	0.0197	0.95%
Mn 257.610†	26197.2	0.9650	mg/L	0.00774	0.9650	mg/L	0.00774	0.80%
Mo 202.031†	5324.2	1.009	mg/L	0.0080	1.009	mg/L	0.0080	0.80%
Na 589.592†	95556.5	49.04	mg/L	0.450	49.04	mg/L	0.450	0.92%
Na 330.237†	1086.5	51.62	mg/L	0.996	51.62	mg/L	0.996	1.93%
Ni 231.604†	1017.9	1.010	mg/L	0.0128	1.010	mg/L	0.0128	1.27%
Pb 220.353†	14992.8	2.046	mg/L	0.0217	2.046	mg/L	0.0217	1.06%
Sb 206.836†	3630.1	2.134	mg/L	0.0137	2.134	mg/L	0.0137	0.64%
Se 196.026†	1873.6	2.023	mg/L	0.0131	2.023	mg/L	0.0131	0.65%
Si 288.158†	3464.5	2.158	mg/L	0.0135	2.158	mg/L	0.0135	0.63%
Sn 189.927†	2734.0	0.9233	mg/L	0.00647	0.9233	mg/L	0.00647	0.70%
Sr 421.552†	262341.8	1.050	mg/L	0.0064	1.050	mg/L	0.0064	0.61%
Ti 334.903†	19321.2	1.012	mg/L	0.0015	1.012	mg/L	0.0015	0.15%
Tl 190.801†	3811.4	1.998	mg/L	0.0073	1.998	mg/L	0.0073	0.36%
V 292.402†	119555.6	0.9959	mg/L	0.01197	0.9959	mg/L	0.01197	1.20%
Zn 206.200†	994.1	1.049	mg/L	0.0100	1.049	mg/L	0.0100	0.95%

Sequence No.: 7
Sample ID: CB
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 12/8/2008 12:55:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	120.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2156850.2	98.16	%	1.196				1.22%
ScR 361.383	148291.9	100.3	%	0.72				0.71%
Ag 328.068†	89.0	0.00057	mg/L	0.000488	0.00057	mg/L	0.000488	85.61%
Al 308.215†	-16.3	-0.01025	mg/L	0.020859	-0.01025	mg/L	0.020859	203.44%
As 188.979†	4.0	0.00348	mg/L	0.005692	0.00348	mg/L	0.005692	163.69%
B 249.677†	-0.8	-0.00053	mg/L	0.002084	-0.00053	mg/L	0.002084	389.78%
Ba 233.527†	0.7	0.00011	mg/L	0.000524	0.00011	mg/L	0.000524	463.11%
Be 313.042†	-2.9	-0.00001	mg/L	0.000144	-0.00001	mg/L	0.000144	>999.9%
Ca 317.933†	11.7	0.00126	mg/L	0.004786	0.00126	mg/L	0.004786	380.78%
Cd 228.802†	12.6	0.00027	mg/L	0.000109	0.00027	mg/L	0.000109	39.76%
Co 228.616†	6.0	0.00012	mg/L	0.000141	0.00012	mg/L	0.000141	122.98%
Cr 267.716†	2.8	0.00073	mg/L	0.003001	0.00073	mg/L	0.003001	409.27%
Cu 324.752†	183.7	0.00081	mg/L	0.000344	0.00081	mg/L	0.000344	42.42%
Fe 273.955†	14.1	0.01153	mg/L	0.002512	0.01153	mg/L	0.002512	21.79%
K 766.490†	36.8	0.03647	mg/L	0.017993	0.03647	mg/L	0.017993	49.33%
Mg 279.077†	-5.0	-0.00442	mg/L	0.010205	-0.00442	mg/L	0.010205	230.70%
Mn 257.610†	0.2	0.00001	mg/L	0.000153	0.00001	mg/L	0.000153	>999.9%
Mo 202.031†	2.4	0.00046	mg/L	0.000567	0.00046	mg/L	0.000567	122.52%
Na 589.592†	-42.1	-0.02160	mg/L	0.008484	-0.02160	mg/L	0.008484	39.27%
Na 330.237†	16.2	0.7745	mg/L	0.48010	0.7745	mg/L	0.48010	61.99%
Ni 231.604†	1.8	0.00183	mg/L	0.003500	0.00183	mg/L	0.003500	191.31%
Pb 220.353†	-2.2	-0.00030	mg/L	0.000492	-0.00030	mg/L	0.000492	162.81%
Sb 206.836†	-1.1	-0.00062	mg/L	0.008457	-0.00062	mg/L	0.008457	>999.9%
Se 196.026†	0.4	0.00041	mg/L	0.004034	0.00041	mg/L	0.004034	988.55%
Si 288.158†	10.6	0.00657	mg/L	0.009342	0.00657	mg/L	0.009342	142.19%
Sn 189.927†	9.9	0.00335	mg/L	0.001330	0.00335	mg/L	0.001330	39.64%
Sr 421.552†	-6.2	-0.00002	mg/L	0.000164	-0.00002	mg/L	0.000164	663.55%
Ti 334.903†	-4.4	-0.00023	mg/L	0.001183	-0.00023	mg/L	0.001183	511.06%
Tl 190.801†	6.3	0.00330	mg/L	0.000800	0.00330	mg/L	0.000800	24.24%
V 292.402†	15.3	0.00013	mg/L	0.000174	0.00013	mg/L	0.000174	130.60%
Zn 206.200†	-0.8	-0.00083	mg/L	0.001617	-0.00083	mg/L	0.001617	195.32%

Sequence No.: 8
Sample ID: DI CHECK
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 24
Date Collected: 12/8/2008 1:01:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: DI CHECK

Analyte	Back Pressure	Flow
All	120.0 kPa	0.50 L/min

Mean Data: DI CHECK

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2265006.3	103.1	%	1.00				0.97%
ScR 361.383	151304.0	102.4	%	1.20				1.17%
Ag 328.068†	-157.5	-0.00101	mg/L	0.000456	-0.00101	mg/L	0.000456	45.23%
Al 308.215†	-9.9	-0.00626	mg/L	0.000489	-0.00626	mg/L	0.000489	7.82%
As 188.979†	0.9	0.00075	mg/L	0.001846	0.00075	mg/L	0.001846	245.26%
B 249.677†	-14.5	-0.00945	mg/L	0.002136	-0.00945	mg/L	0.002136	22.61%
Ba 233.527†	-0.6	-0.00010	mg/L	0.000795	-0.00010	mg/L	0.000795	823.09%
Be 313.042†	30.6	0.00014	mg/L	0.000087	0.00014	mg/L	0.000087	62.87%
Ca 317.933†	-60.3	-0.00648	mg/L	0.001917	-0.00648	mg/L	0.001917	29.61%
Cd 228.802†	-5.7	-0.00013	mg/L	0.000065	-0.00013	mg/L	0.000065	49.10%
Co 228.616†	4.5	0.00009	mg/L	0.000047	0.00009	mg/L	0.000047	52.69%
Cr 267.716†	-1.2	-0.00033	mg/L	0.001113	-0.00033	mg/L	0.001113	336.56%
Cu 324.752†	-140.3	-0.00062	mg/L	0.000078	-0.00062	mg/L	0.000078	12.55%
Fe 273.955†	4.1	0.00332	mg/L	0.003507	0.00332	mg/L	0.003507	105.62%
K 766.490†	-77.0	-0.07636	mg/L	0.025454	-0.07636	mg/L	0.025454	33.33%
Mg 279.077†	23.8	0.02103	mg/L	0.012879	0.02103	mg/L	0.012879	61.23%
Mn 257.610†	-3.9	-0.00014	mg/L	0.000009	-0.00014	mg/L	0.000009	6.29%
Mo 202.031†	10.6	0.00201	mg/L	0.000860	0.00201	mg/L	0.000860	42.88%
Na 589.592†	666.6	0.3421	mg/L	0.03433	0.3421	mg/L	0.03433	10.03%
Na 330.237†	-0.5	-0.02202	mg/L	0.786540	-0.02202	mg/L	0.786540	>999.9%
Ni 231.604†	-0.9	-0.00090	mg/L	0.002678	-0.00090	mg/L	0.002678	299.17%
Pb 220.353†	-14.9	-0.00203	mg/L	0.002167	-0.00203	mg/L	0.002167	106.70%
Sb 206.836†	2.2	0.00127	mg/L	0.004199	0.00127	mg/L	0.004199	330.54%
Se 196.026†	1.5	0.00163	mg/L	0.004453	0.00163	mg/L	0.004453	274.01%
Si 288.158†	2.3	0.00144	mg/L	0.012817	0.00144	mg/L	0.012817	890.87%
Sn 189.927†	-0.4	-0.00015	mg/L	0.001299	-0.00015	mg/L	0.001299	872.03%
Sr 421.552†	-13.0	-0.00005	mg/L	0.000175	-0.00005	mg/L	0.000175	335.99%
Ti 334.903†	-25.6	-0.00135	mg/L	0.000480	-0.00135	mg/L	0.000480	35.62%
Tl 190.801†	-0.7	-0.00040	mg/L	0.001104	-0.00040	mg/L	0.001104	278.66%
V 292.402†	65.1	0.00055	mg/L	0.000254	0.00055	mg/L	0.000254	46.15%
Zn 206.200†	-2.1	-0.00221	mg/L	0.002603	-0.00221	mg/L	0.002603	117.97%

Sequence No.: 9
Sample ID: OB35 MB1 SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 25
Date Collected: 12/8/2008 1:08:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: OB35 MB1 SWC

Analyte	Back Pressure	Flow
All	120.0 kPa	0.50 L/min

Mean Data: OB35 MB1 SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2204717.0	100.3	%	0.99				0.99%
ScR 361.383	151391.4	102.4	%	0.21				0.21%
Ag 328.068†	28.4	0.00018	mg/L	0.000650	0.00037	mg/L	0.001299	355.55%
Al 308.215†	6.3	0.00396	mg/L	0.011867	0.00791	mg/L	0.023734	300.02%
As 188.979†	2.7	0.00234	mg/L	0.005281	0.00469	mg/L	0.010561	225.31%
B 249.677†	-6.5	-0.00421	mg/L	0.004505	-0.00842	mg/L	0.009010	106.95%
Ba 233.527†	-3.7	-0.00058	mg/L	0.000607	-0.00116	mg/L	0.001214	104.94%
Be 313.042†	-6.9	-0.00003	mg/L	0.000031	-0.00006	mg/L	0.000061	94.24%
Ca 317.933†	189.2	0.02032	mg/L	0.002504	0.04064	mg/L	0.005008	12.32%
Cd 228.802†	8.4	0.00018	mg/L	0.000167	0.00036	mg/L	0.000333	92.18%
Co 228.616†	-0.3	-0.00001	mg/L	0.000051	-0.00001	mg/L	0.000101	816.59%
Cr 267.716†	-0.0	0.00000	mg/L	0.000313	-0.00001	mg/L	0.000626	>999.9%
Cu 324.752†	-25.4	-0.00011	mg/L	0.000404	-0.00022	mg/L	0.000807	363.63%
Fe 273.955†	20.7	0.01697	mg/L	0.001859	0.03394	mg/L	0.003717	10.95%
K 766.490†	-46.0	-0.04555	mg/L	0.020221	-0.09111	mg/L	0.040443	44.39%
Mg 279.077†	7.7	0.00677	mg/L	0.010509	0.01355	mg/L	0.021017	155.12%
Mn 257.610†	12.2	0.00045	mg/L	0.000314	0.00090	mg/L	0.000628	70.06%
Mo 202.031†	3.0	0.00057	mg/L	0.000578	0.00114	mg/L	0.001155	101.41%
Na 589.592†	-284.7	-0.1461	mg/L	0.02271	-0.2922	mg/L	0.04543	15.54%
Na 330.237†	17.2	0.8181	mg/L	0.60870	1.636	mg/L	1.2174	74.41%
Ni 231.604†	0.8	0.00077	mg/L	0.005194	0.00154	mg/L	0.010387	675.90%
Pb 220.353†	5.6	0.00076	mg/L	0.001403	0.00153	mg/L	0.002806	183.61%
Sb 206.836†	-0.2	-0.00011	mg/L	0.004049	-0.00021	mg/L	0.008097	>999.9%
Se 196.026†	-0.6	-0.00065	mg/L	0.007228	-0.00129	mg/L	0.014456	>999.9%
Si 288.158†	-6.1	-0.00378	mg/L	0.007143	-0.00756	mg/L	0.014287	188.90%
Sn 189.927†	5.5	0.00185	mg/L	0.000912	0.00370	mg/L	0.001824	49.32%
Sr 421.552†	14.7	0.00006	mg/L	0.000175	0.00012	mg/L	0.000349	297.43%
Ti 334.903†	15.7	0.00082	mg/L	0.001427	0.00164	mg/L	0.002855	173.89%
Tl 190.801†	1.0	0.00055	mg/L	0.000148	0.00110	mg/L	0.000296	26.97%
V 292.402†	27.9	0.00023	mg/L	0.000189	0.00046	mg/L	0.000379	81.64%
Zn 206.200†	3.3	0.00348	mg/L	0.001630	0.00697	mg/L	0.003260	46.80%

Sequence No.: 10
Sample ID: OA82 MB1 SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 26
Date Collected: 12/8/2008 1:15:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: OA82 MB1 SWC

Analyte	Back Pressure	Flow
All	121.0 kPa	0.50 L/min

Mean Data: OA82 MB1 SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2220064.7	101.0	%	0.38				0.38%
ScR 361.383	152325.7	103.0	%	0.63				0.61%
Ag 328.068†	-48.5	-0.00031	mg/L	0.001104	-0.00062	mg/L	0.002208	356.21%
Al 308.215†	13.9	0.00866	mg/L	0.011782	0.01733	mg/L	0.023565	135.99%
As 188.979†	4.2	0.00370	mg/L	0.002915	0.00740	mg/L	0.005830	78.76%
B 249.677†	-15.3	-0.00996	mg/L	0.001880	-0.01991	mg/L	0.003761	18.89%
Ba 233.527†	3.1	0.00049	mg/L	0.000274	0.00098	mg/L	0.000548	56.00%
Be 313.042†	-6.0	-0.00003	mg/L	0.000053	-0.00005	mg/L	0.000107	195.28%
Ca 317.933†	160.3	0.01721	mg/L	0.002157	0.03443	mg/L	0.004313	12.53%
Cd 228.802†	5.5	0.00011	mg/L	0.000090	0.00022	mg/L	0.000181	81.48%
Co 228.616†	3.7	0.00007	mg/L	0.000049	0.00014	mg/L	0.000097	70.32%
Cr 267.716†	3.0	0.00080	mg/L	0.001739	0.00161	mg/L	0.003479	216.60%
Cu 324.752†	-57.3	-0.00025	mg/L	0.000175	-0.00050	mg/L	0.000349	69.48%
Fe 273.955†	19.8	0.01620	mg/L	0.001684	0.03239	mg/L	0.003368	10.40%
K 766.490†	-85.2	-0.08441	mg/L	0.064647	-0.1688	mg/L	0.12929	76.59%
Mg 279.077†	4.6	0.00408	mg/L	0.005956	0.00816	mg/L	0.011911	145.97%
Mn 257.610†	8.7	0.00032	mg/L	0.000002	0.00064	mg/L	0.000004	0.62%
Mo 202.031†	5.8	0.00110	mg/L	0.000706	0.00221	mg/L	0.001413	63.97%
Na 589.592†	-317.0	-0.1627	mg/L	0.01023	-0.3254	mg/L	0.02045	6.29%
Na 330.237†	4.5	0.2149	mg/L	0.24984	0.4299	mg/L	0.49968	116.24%
Ni 231.604†	0.9	0.00087	mg/L	0.005485	0.00174	mg/L	0.010970	631.84%
Pb 220.353†	2.6	0.00036	mg/L	0.001665	0.00072	mg/L	0.003329	460.45%
Sb 206.836†	-0.7	-0.00041	mg/L	0.003291	-0.00081	mg/L	0.006581	811.09%
Se 196.026†	4.9	0.00530	mg/L	0.002514	0.01060	mg/L	0.005028	47.43%
Si 288.158†	1.3	0.00081	mg/L	0.004375	0.00163	mg/L	0.008749	537.59%
Sn 189.927†	1.0	0.00033	mg/L	0.000555	0.00066	mg/L	0.001109	168.31%
Sr 421.552†	22.9	0.00009	mg/L	0.000078	0.00018	mg/L	0.000155	84.82%
Ti 334.903†	19.4	0.00102	mg/L	0.000913	0.00203	mg/L	0.001826	89.95%
Tl 190.801†	6.7	0.00356	mg/L	0.002434	0.00712	mg/L	0.004869	68.35%
V 292.402†	-0.4	0.00001	mg/L	0.000301	0.00002	mg/L	0.000603	>999.9%
Zn 206.200†	4.0	0.00421	mg/L	0.002106	0.00843	mg/L	0.004212	49.98%

Sequence No.: 11
Sample ID: QC21
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 27
Date Collected: 12/8/2008 1:21:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: QC21

Analyte	Back Pressure	Flow
All	120.0 kPa	0.50 L/min

Mean Data: QC21

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2187816.7	99.57	%	0.759				0.76%
ScR 361.383	151163.4	102.3	%	0.54				0.53%
Ag 328.068†	-40.3	-0.00009	mg/L	0.000507	-0.00009	mg/L	0.000507	560.65%
Al 308.215†	107.7	-0.00646	mg/L	0.003747	-0.00646	mg/L	0.003747	57.97%
As 188.979†	2311.4	2.007	mg/L	0.0187	2.007	mg/L	0.0187	0.93%
B 249.677†	-7.2	-0.00906	mg/L	0.004934	-0.00906	mg/L	0.004934	54.49%
Ba 233.527†	5.1	-0.00007	mg/L	0.000813	-0.00007	mg/L	0.000813	>999.9%
Be 313.042†	440177.8	2.013	mg/L	0.0046	2.013	mg/L	0.0046	0.23%
Ca 317.933†	19086.7	2.047	mg/L	0.0104	2.047	mg/L	0.0104	0.51%
Cd 228.802†	86435.9	1.952	mg/L	0.0172	1.952	mg/L	0.0172	0.88%
Co 228.616†	102643.6	1.952	mg/L	0.0080	1.952	mg/L	0.0080	0.41%
Cr 267.716†	7412.1	1.955	mg/L	0.0084	1.955	mg/L	0.0084	0.43%
Cu 324.752†	452983.5	1.996	mg/L	0.0019	1.996	mg/L	0.0019	0.10%
Fe 273.955†	2461.9	2.015	mg/L	0.0030	2.015	mg/L	0.0030	0.15%
K 766.490†	-204.2	-0.2024	mg/L	0.05203	-0.2024	mg/L	0.05203	25.71%
Mg 279.077†	2364.2	2.100	mg/L	0.0121	2.100	mg/L	0.0121	0.58%
Mn 257.610†	53781.3	1.980	mg/L	0.0051	1.980	mg/L	0.0051	0.26%
Mo 202.031†	10490.2	1.989	mg/L	0.0167	1.989	mg/L	0.0167	0.84%
Na 589.592†	-256.0	-0.1314	mg/L	0.00570	-0.1314	mg/L	0.00570	4.33%
Na 330.237†	25.6	0.8447	mg/L	0.71683	0.8447	mg/L	0.71683	84.86%
Ni 231.604†	2070.1	2.055	mg/L	0.0073	2.055	mg/L	0.0073	0.36%
Pb 220.353†	15158.0	2.069	mg/L	0.0111	2.069	mg/L	0.0111	0.54%
Sb 206.836†	3641.2	2.127	mg/L	0.0203	2.127	mg/L	0.0203	0.96%
Se 196.026†	1852.4	1.999	mg/L	0.0280	1.999	mg/L	0.0280	1.40%
Si 288.158†	45.7	0.03458	mg/L	0.002470	0.03458	mg/L	0.002470	7.14%
Sn 189.927†	0.1	0.00157	mg/L	0.001919	0.00157	mg/L	0.001919	122.53%
Sr 421.552†	508757.9	2.037	mg/L	0.0036	2.037	mg/L	0.0036	0.18%
Ti 334.903†	38541.8	2.018	mg/L	0.0032	2.018	mg/L	0.0032	0.16%
Tl 190.801†	4110.7	2.138	mg/L	0.0167	2.138	mg/L	0.0167	0.78%
V 292.402†	236333.2	1.969	mg/L	0.0141	1.969	mg/L	0.0141	0.71%
Zn 206.200†	1874.9	1.978	mg/L	0.0045	1.978	mg/L	0.0045	0.23%

Sequence No.: 12
Sample ID: QC7M
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 28
Date Collected: 12/8/2008 1:28:28 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: QC7M

Analyte	Back Pressure	Flow
All	120.0 kPa	0.50 L/min

Mean Data: QC7M

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2163400.3	98.46	%	0.325				0.33%
ScR 361.383	149079.9	100.9	%	0.84				0.84%
Ag 328.068†	166848.4	1.069	mg/L	0.0114	1.069	mg/L	0.0114	1.07%
Al 308.215†	3243.1	2.033	mg/L	0.0116	2.033	mg/L	0.0116	0.57%
As 188.979†	6.8	0.00537	mg/L	0.003374	0.00537	mg/L	0.003374	62.80%
B 249.677†	3127.7	2.034	mg/L	0.0075	2.034	mg/L	0.0075	0.37%
Ba 233.527†	12447.2	1.966	mg/L	0.0073	1.966	mg/L	0.0073	0.37%
Be 313.042†	16.3	0.00008	mg/L	0.000153	0.00008	mg/L	0.000153	203.97%
Ca 317.933†	1.9	0.00020	mg/L	0.001132	0.00020	mg/L	0.001132	561.96%
Cd 228.802†	12.2	0.00025	mg/L	0.000147	0.00025	mg/L	0.000147	57.67%
Co 228.616†	34.9	0.00021	mg/L	0.000135	0.00021	mg/L	0.000135	63.78%
Cr 267.716†	8.9	0.00235	mg/L	0.001674	0.00235	mg/L	0.001674	71.11%
Cu 324.752†	305.3	0.00135	mg/L	0.000208	0.00135	mg/L	0.000208	15.44%
Fe 273.955†	5.4	0.00439	mg/L	0.002545	0.00439	mg/L	0.002545	57.99%
K 766.490†	21262.7	21.07	mg/L	0.155	21.07	mg/L	0.155	0.74%
Mg 279.077†	0.0	0.00003	mg/L	0.016004	0.00003	mg/L	0.016004	>999.9%
Mn 257.610†	7.5	0.00025	mg/L	0.000063	0.00025	mg/L	0.000063	25.21%
Mo 202.031†	10.2	0.00189	mg/L	0.001770	0.00189	mg/L	0.001770	93.72%
Na 589.592†	3800.0	1.950	mg/L	0.0307	1.950	mg/L	0.0307	1.58%
Na 330.237†	69.5	3.314	mg/L	0.6339	3.314	mg/L	0.6339	19.13%
Ni 231.604†	2.6	0.00157	mg/L	0.000906	0.00157	mg/L	0.000906	57.59%
Pb 220.353†	-3.8	0.00030	mg/L	0.001109	0.00030	mg/L	0.001109	370.25%
Sb 206.836†	0.4	0.00022	mg/L	0.003988	0.00022	mg/L	0.003988	>999.9%
Se 196.026†	-4.4	-0.00433	mg/L	0.006251	-0.00433	mg/L	0.006251	144.40%
Si 288.158†	3601.5	2.240	mg/L	0.0073	2.240	mg/L	0.0073	0.33%
Sn 189.927†	4.4	0.00148	mg/L	0.001020	0.00148	mg/L	0.001020	68.85%
Sr 421.552†	29.8	0.00012	mg/L	0.000178	0.00012	mg/L	0.000178	149.38%
Ti 334.903†	-39.8	-0.00209	mg/L	0.001446	-0.00209	mg/L	0.001446	69.14%
Tl 190.801†	-0.1	0.00171	mg/L	0.002726	0.00171	mg/L	0.002726	159.53%
V 292.402†	-10.4	-0.00005	mg/L	0.000448	-0.00005	mg/L	0.000448	828.21%
Zn 206.200†	2.7	0.00281	mg/L	0.001977	0.00281	mg/L	0.001977	70.24%

Sequence No.: 13
Sample ID: OB35 A SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 29
Date Collected: 12/8/2008 1:35:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: OB35 A SWC

Analyte	Back Pressure	Flow
All	121.0 kPa	0.50 L/min

Mean Data: OB35 A SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2198661.7	100.1	%	0.16				0.16%
ScR 361.383	155621.8	105.3	%	1.31				1.24%
Ag 328.068†	-862.3	0.00200	mg/L	0.000740	0.00399	mg/L	0.001480	37.06%
Al 308.215†	152282.0	95.45	mg/L	0.215	190.9	mg/L	0.43	0.23%
As 188.979†	158.7	0.06593	mg/L	0.003601	0.1319	mg/L	0.00720	5.46%
B 249.677†	80.9	0.08432	mg/L	0.004567	0.1686	mg/L	0.00913	5.42%
Ba 233.527†	6880.8	1.077	mg/L	0.0127	2.154	mg/L	0.0255	1.18%
Be 313.042†	502.9	0.00119	mg/L	0.000075	0.00237	mg/L	0.000151	6.36%
Ca 317.933†	618483.0	66.41	mg/L	0.254	132.8	mg/L	0.51	0.38%
Cd 228.802†	848.4	0.01876	mg/L	0.000067	0.03752	mg/L	0.000134	0.36%
Co 228.616†	3813.5	0.05910	mg/L	0.000251	0.1182	mg/L	0.00050	0.43%
Cr 267.716†	1830.9	0.4850	mg/L	0.00758	0.9700	mg/L	0.01517	1.56%
Cu 324.752†	296040.7	1.319	mg/L	0.0038	2.638	mg/L	0.0077	0.29%
Fe 273.955†	220695.2	180.9	mg/L	0.64	361.9	mg/L	1.28	0.35%
K 766.490†	5565.4	5.516	mg/L	0.1353	11.03	mg/L	0.271	2.45%
Mg 279.077†	42430.2	37.39	mg/L	0.105	74.78	mg/L	0.211	0.28%
Mn 257.610†	173954.8	6.400	mg/L	0.0498	12.80	mg/L	0.100	0.78%
Mo 202.031†	322.9	0.05922	mg/L	0.001277	0.1184	mg/L	0.00255	2.16%
Na 589.592†	16898.0	8.673	mg/L	0.0553	17.35	mg/L	0.111	0.64%
Na 330.237†	216.5	9.856	mg/L	0.2544	19.71	mg/L	0.509	2.58%
Ni 231.604†	430.8	0.4187	mg/L	0.00698	0.8373	mg/L	0.01396	1.67%
Pb 220.353†	5301.4	0.7529	mg/L	0.00056	1.506	mg/L	0.0011	0.07%
Sb 206.836†	-9.7	0.00830	mg/L	0.006514	0.01659	mg/L	0.013029	78.53%
Se 196.026†	-80.3	-0.01199	mg/L	0.002549	-0.02398	mg/L	0.005097	21.26%
Si 288.158†	10386.1	6.467	mg/L	0.0209	12.93	mg/L	0.042	0.32%
Sn 189.927†	195.8	0.05711	mg/L	0.002294	0.1142	mg/L	0.00459	4.02%
Sr 421.552†	80922.3	0.3240	mg/L	0.00127	0.6479	mg/L	0.00253	0.39%
Ti 334.903†	133101.7	6.978	mg/L	0.0085	13.96	mg/L	0.017	0.12%
Tl 190.801†	5.0	-0.02043	mg/L	0.004729	-0.04085	mg/L	0.009458	23.15%
V 292.402†	47410.5	0.3751	mg/L	0.00179	0.7502	mg/L	0.00357	0.48%
Zn 206.200†	4497.5	4.751	mg/L	0.0542	9.502	mg/L	0.1083	1.14%

Sequence No.: 14
Sample ID: OA82 A SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 30
Date Collected: 12/8/2008 1:41:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: OA82 A SWC

Analyte	Back Pressure	Flow
All	121.0 kPa	0.50 L/min

Mean Data: OA82 A SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2194047.4	99.85	%	0.145				0.15%
ScR 361.383	153837.6	104.1	%	0.81				0.78%
Ag 328.068†	-398.6	0.00145	mg/L	0.000804	0.00290	mg/L	0.001608	55.50%
Al 308.215†	127233.3	79.75	mg/L	0.333	159.5	mg/L	0.67	0.42%
As 188.979†	109.3	0.04622	mg/L	0.002395	0.09244	mg/L	0.004791	5.18%
B 249.677†	123.2	0.09728	mg/L	0.004342	0.1946	mg/L	0.00868	4.46%
Ba 233.527†	1153.2	0.1768	mg/L	0.00175	0.3537	mg/L	0.00351	0.99%
Be 313.042†	384.0	0.00102	mg/L	0.000024	0.00204	mg/L	0.000049	2.39%
Ca 317.933†	354590.5	38.07	mg/L	0.178	76.14	mg/L	0.355	0.47%
Cd 228.802†	200.0	0.00418	mg/L	0.000069	0.00836	mg/L	0.000138	1.65%
Co 228.616†	2184.2	0.03078	mg/L	0.000084	0.06156	mg/L	0.000168	0.27%
Cr 267.716†	711.2	0.1885	mg/L	0.00145	0.3769	mg/L	0.00289	0.77%
Cu 324.752†	153820.9	0.6853	mg/L	0.00179	1.371	mg/L	0.0036	0.26%
Fe 273.955†	119385.8	97.88	mg/L	0.250	195.8	mg/L	0.50	0.26%
K 766.490†	8463.0	8.388	mg/L	0.0464	16.78	mg/L	0.093	0.55%
Mg 279.077†	38282.3	33.76	mg/L	0.123	67.52	mg/L	0.245	0.36%
Mn 257.610†	27560.6	1.013	mg/L	0.0016	2.026	mg/L	0.0033	0.16%
Mo 202.031†	134.9	0.02396	mg/L	0.001329	0.04792	mg/L	0.002659	5.55%
Na 589.592†	61971.0	31.81	mg/L	0.210	63.61	mg/L	0.421	0.66%
Na 330.237†	682.8	33.47	mg/L	0.638	66.93	mg/L	1.276	1.91%
Ni 231.604†	174.2	0.1674	mg/L	0.00249	0.3348	mg/L	0.00497	1.48%
Pb 220.353†	1624.9	0.2489	mg/L	0.00117	0.4978	mg/L	0.00234	0.47%
Sb 206.836†	-19.4	0.00275	mg/L	0.003705	0.00550	mg/L	0.007409	134.68%
Se 196.026†	-50.3	-0.00847	mg/L	0.005089	-0.01695	mg/L	0.010178	60.06%
Si 288.158†	9879.9	6.151	mg/L	0.0604	12.30	mg/L	0.121	0.98%
Sn 189.927†	235.7	0.07584	mg/L	0.002277	0.1517	mg/L	0.00455	3.00%
Sr 421.552†	67741.1	0.2712	mg/L	0.00130	0.5424	mg/L	0.00260	0.48%
Ti 334.903†	108074.4	5.666	mg/L	0.0181	11.33	mg/L	0.036	0.32%
Tl 190.801†	4.3	-0.00977	mg/L	0.004245	-0.01954	mg/L	0.008490	43.46%
V 292.402†	30557.3	0.2409	mg/L	0.00112	0.4819	mg/L	0.00223	0.46%
Zn 206.200†	591.1	0.6269	mg/L	0.00759	1.254	mg/L	0.0152	1.21%

Sequence No.: 15
Sample ID: OA82 ADUP SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 31
Date Collected: 12/8/2008 1:47:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: OA82 ADUP SWC

Analyte	Back Pressure	Flow
All	120.0 kPa	0.50 L/min

Mean Data: OA82 ADUP SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2196808.4	99.98	%	1.598				1.60%
ScR 361.383	153242.5	103.7	%	1.33				1.29%
Ag 328.068†	-549.2	0.00061	mg/L	0.000212	0.00122	mg/L	0.000424	34.71%
Al 308.215†	133499.7	83.68	mg/L	0.179	167.4	mg/L	0.36	0.21%
As 188.979†	120.4	0.05108	mg/L	0.005327	0.1022	mg/L	0.01065	10.43%
B 249.677†	120.0	0.09578	mg/L	0.002855	0.1916	mg/L	0.00571	2.98%
Ba 233.527†	1513.1	0.2335	mg/L	0.00292	0.4670	mg/L	0.00584	1.25%
Be 313.042†	397.7	0.00105	mg/L	0.000027	0.00209	mg/L	0.000053	2.56%
Ca 317.933†	573989.4	61.63	mg/L	0.222	123.3	mg/L	0.44	0.36%
Cd 228.802†	205.1	0.00426	mg/L	0.000298	0.00852	mg/L	0.000597	7.00%
Co 228.616†	2401.2	0.03385	mg/L	0.000651	0.06771	mg/L	0.001302	1.92%
Cr 267.716†	725.4	0.1922	mg/L	0.00098	0.3844	mg/L	0.00196	0.51%
Cu 324.752†	141201.7	0.6299	mg/L	0.00224	1.260	mg/L	0.0045	0.36%
Fe 273.955†	123375.1	101.2	mg/L	0.20	202.3	mg/L	0.39	0.20%
K 766.490†	8480.6	8.406	mg/L	0.0787	16.81	mg/L	0.157	0.94%
Mg 279.077†	40086.8	35.35	mg/L	0.069	70.70	mg/L	0.138	0.19%
Mn 257.610†	29677.1	1.091	mg/L	0.0051	2.182	mg/L	0.0102	0.47%
Mo 202.031†	141.3	0.02417	mg/L	0.001077	0.04834	mg/L	0.002155	4.46%
Na 589.592†	62678.6	32.17	mg/L	0.097	64.34	mg/L	0.194	0.30%
Na 330.237†	685.7	33.75	mg/L	1.388	67.49	mg/L	2.776	4.11%
Ni 231.604†	181.9	0.1748	mg/L	0.00492	0.3496	mg/L	0.00983	2.81%
Pb 220.353†	1811.0	0.2758	mg/L	0.00540	0.5517	mg/L	0.01081	1.96%
Sb 206.836†	-28.2	-0.00129	mg/L	0.004582	-0.00258	mg/L	0.009163	355.72%
Se 196.026†	-68.9	-0.02382	mg/L	0.012019	-0.04764	mg/L	0.024039	50.46%
Si 288.158†	10579.6	6.587	mg/L	0.0150	13.17	mg/L	0.030	0.23%
Sn 189.927†	58.3	0.01603	mg/L	0.002883	0.03206	mg/L	0.005766	17.99%
Sr 421.552†	116357.4	0.4658	mg/L	0.00149	0.9316	mg/L	0.00297	0.32%
Ti 334.903†	118534.7	6.214	mg/L	0.0155	12.43	mg/L	0.031	0.25%
Tl 190.801†	6.4	-0.00968	mg/L	0.002060	-0.01936	mg/L	0.004120	21.28%
V 292.402†	31955.6	0.2518	mg/L	0.00102	0.5036	mg/L	0.00204	0.40%
Zn 206.200†	525.2	0.5582	mg/L	0.00384	1.116	mg/L	0.0077	0.69%

Sequence No.: 16
Sample ID: OA82 MB1SPK SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 32
Date Collected: 12/8/2008 1:54:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: OA82 MB1SPK SWC

Analyte	Back Pressure	Flow
All	121.0 kPa	0.50 L/min

Mean Data: OA82 MB1SPK SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2155416.3	98.10	%	0.557				0.57%
ScR 361.383	149874.5	101.4	%	1.05				1.04%
Ag 328.068†	84336.7	0.5403	mg/L	0.00551	1.081	mg/L	0.0110	1.02%
Al 308.215†	3343.5	2.089	mg/L	0.0191	4.178	mg/L	0.0381	0.91%
As 188.979†	2427.6	2.128	mg/L	0.0245	4.256	mg/L	0.0490	1.15%
B 249.677†	-13.0	-0.00992	mg/L	0.001761	-0.01984	mg/L	0.003522	17.75%
Ba 233.527†	12400.3	1.958	mg/L	0.0204	3.917	mg/L	0.0408	1.04%
Be 313.042†	114970.7	0.5258	mg/L	0.00599	1.052	mg/L	0.0120	1.14%
Ca 317.933†	96981.9	10.41	mg/L	0.102	20.82	mg/L	0.204	0.98%
Cd 228.802†	22948.3	0.5121	mg/L	0.00650	1.024	mg/L	0.0130	1.27%
Co 228.616†	25634.9	0.4878	mg/L	0.00528	0.9755	mg/L	0.01055	1.08%
Cr 267.716†	1902.8	0.5017	mg/L	0.00525	1.003	mg/L	0.0105	1.05%
Cu 324.752†	114626.1	0.5054	mg/L	0.00471	1.011	mg/L	0.0094	0.93%
Fe 273.955†	2589.7	2.122	mg/L	0.0193	4.245	mg/L	0.0387	0.91%
K 766.490†	10755.3	10.66	mg/L	0.094	21.32	mg/L	0.189	0.89%
Mg 279.077†	12158.3	10.74	mg/L	0.087	21.47	mg/L	0.174	0.81%
Mn 257.610†	13738.5	0.5066	mg/L	0.00254	1.013	mg/L	0.0051	0.50%
Mo 202.031†	26.0	0.00442	mg/L	0.001308	0.00885	mg/L	0.002615	29.55%
Na 589.592†	20039.7	10.29	mg/L	0.047	20.57	mg/L	0.093	0.45%
Na 330.237†	258.9	12.15	mg/L	0.067	24.29	mg/L	0.134	0.55%
Ni 231.604†	516.1	0.5102	mg/L	0.00368	1.020	mg/L	0.0074	0.72%
Pb 220.353†	15380.6	2.099	mg/L	0.0235	4.198	mg/L	0.0471	1.12%
Sb 206.836†	7.9	-0.00056	mg/L	0.007491	-0.00111	mg/L	0.014982	>999.9%
Se 196.026†	1938.8	2.094	mg/L	0.0153	4.189	mg/L	0.0307	0.73%
Si 288.158†	29.6	0.02075	mg/L	0.004455	0.04150	mg/L	0.008910	21.47%
Sn 189.927†	1.2	0.00068	mg/L	0.001474	0.00135	mg/L	0.002948	218.35%
Sr 421.552†	127850.3	0.5118	mg/L	0.00309	1.024	mg/L	0.0062	0.60%
Ti 334.903†	43.9	0.00216	mg/L	0.001366	0.00432	mg/L	0.002731	63.18%
Tl 190.801†	3855.6	2.033	mg/L	0.0201	4.065	mg/L	0.0402	0.99%
V 292.402†	61912.7	0.5121	mg/L	0.00480	1.024	mg/L	0.0096	0.94%
Zn 206.200†	489.9	0.5181	mg/L	0.00507	1.036	mg/L	0.0101	0.98%

Sequence No.: 17
Sample ID: OB35 MB1SPK SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 33
Date Collected: 12/8/2008 2:01:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: OB35 MB1SPK SWC

Analyte	Back Pressure	Flow
All	121.0 kPa	0.50 L/min

Mean Data: OB35 MB1SPK SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2155173.2	98.09	%	0.476				0.49%
ScR 361.383	146833.6	99.33	%	1.305				1.31%
Ag 328.068†	82721.0	0.5300	mg/L	0.00349	1.060	mg/L	0.0070	0.66%
Al 308.215†	3288.1	2.054	mg/L	0.0245	4.109	mg/L	0.0490	1.19%
As 188.979†	2392.5	2.097	mg/L	0.0174	4.194	mg/L	0.0348	0.83%
B 249.677†	-17.2	-0.01261	mg/L	0.002445	-0.02521	mg/L	0.004890	19.40%
Ba 233.527†	12241.5	1.933	mg/L	0.0183	3.867	mg/L	0.0366	0.95%
Be 313.042†	112862.4	0.5161	mg/L	0.00468	1.032	mg/L	0.0094	0.91%
Ca 317.933†	95130.1	10.21	mg/L	0.100	20.43	mg/L	0.201	0.98%
Cd 228.802†	22541.6	0.5030	mg/L	0.00541	1.006	mg/L	0.0108	1.07%
Co 228.616†	24943.3	0.4746	mg/L	0.00486	0.9492	mg/L	0.00971	1.02%
Cr 267.716†	1862.8	0.4911	mg/L	0.00366	0.9823	mg/L	0.00732	0.74%
Cu 324.752†	112359.5	0.4954	mg/L	0.00337	0.9909	mg/L	0.00674	0.68%
Fe 273.955†	2545.6	2.086	mg/L	0.0157	4.172	mg/L	0.0314	0.75%
K 766.490†	10789.7	10.69	mg/L	0.241	21.39	mg/L	0.481	2.25%
Mg 279.077†	11889.3	10.50	mg/L	0.096	21.00	mg/L	0.192	0.92%
Mn 257.610†	13425.0	0.4950	mg/L	0.00409	0.9901	mg/L	0.00818	0.83%
Mo 202.031†	26.4	0.00452	mg/L	0.000397	0.00903	mg/L	0.000795	8.80%
Na 589.592†	19986.2	10.26	mg/L	0.161	20.52	mg/L	0.322	1.57%
Na 330.237†	252.0	11.82	mg/L	0.386	23.65	mg/L	0.773	3.27%
Ni 231.604†	508.5	0.5027	mg/L	0.00991	1.005	mg/L	0.0198	1.97%
Pb 220.353†	15022.7	2.050	mg/L	0.0194	4.100	mg/L	0.0388	0.95%
Sb 206.836†	10.5	0.00103	mg/L	0.002137	0.00205	mg/L	0.004275	208.23%
Se 196.026†	1918.0	2.072	mg/L	0.0111	4.144	mg/L	0.0222	0.54%
Si 288.158†	11.2	0.00928	mg/L	0.006873	0.01855	mg/L	0.013747	74.10%
Sn 189.927†	1.1	0.00063	mg/L	0.000528	0.00127	mg/L	0.001056	83.44%
Sr 421.552†	126941.3	0.5082	mg/L	0.00694	1.016	mg/L	0.0139	1.37%
Ti 334.903†	16.6	0.00074	mg/L	0.000673	0.00148	mg/L	0.001347	91.32%
Tl 190.801†	3777.4	1.991	mg/L	0.0123	3.983	mg/L	0.0246	0.62%
V 292.402†	60283.7	0.4986	mg/L	0.00429	0.9973	mg/L	0.00859	0.86%
Zn 206.200†	472.3	0.4995	mg/L	0.00286	0.9990	mg/L	0.00572	0.57%

Sequence No.: 18
Sample ID: CV 2
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 12/8/2008 2:07:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	121.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2130613.3	96.97	%	0.367				0.38%
ScR 361.383	146224.8	98.92	%	0.622				0.63%
Ag 328.068†	164479.2	1.054	mg/L	0.0058	1.054	mg/L	0.0058	0.55%
Al 308.215†	3266.6	2.010	mg/L	0.0122	2.010	mg/L	0.0122	0.61%
As 188.979†	2357.5	2.059	mg/L	0.0012	2.059	mg/L	0.0012	0.06%
B 249.677†	1513.6	0.9824	mg/L	0.01215	0.9824	mg/L	0.01215	1.24%
Ba 233.527†	6162.8	0.9730	mg/L	0.00748	0.9730	mg/L	0.00748	0.77%
Be 313.042†	221617.8	1.013	mg/L	0.0031	1.013	mg/L	0.0031	0.30%
Ca 317.933†	19587.5	2.102	mg/L	0.0070	2.102	mg/L	0.0070	0.33%
Cd 228.802†	44724.8	1.006	mg/L	0.0026	1.006	mg/L	0.0026	0.25%
Co 228.616†	51558.9	0.9802	mg/L	0.00345	0.9802	mg/L	0.00345	0.35%
Cr 267.716†	3687.6	0.9728	mg/L	0.00471	0.9728	mg/L	0.00471	0.48%
Cu 324.752†	235187.7	1.036	mg/L	0.0036	1.036	mg/L	0.0036	0.35%
Fe 273.955†	2501.8	2.049	mg/L	0.0151	2.049	mg/L	0.0151	0.74%
K 766.490†	20738.1	20.55	mg/L	0.028	20.55	mg/L	0.028	0.14%
Mg 279.077†	2367.0	2.096	mg/L	0.0183	2.096	mg/L	0.0183	0.87%
Mn 257.610†	26271.2	0.9678	mg/L	0.00312	0.9678	mg/L	0.00312	0.32%
Mo 202.031†	5317.1	1.008	mg/L	0.0023	1.008	mg/L	0.0023	0.23%
Na 589.592†	97238.5	49.91	mg/L	0.272	49.91	mg/L	0.272	0.55%
Na 330.237†	1111.3	52.81	mg/L	0.649	52.81	mg/L	0.649	1.23%
Ni 231.604†	1032.1	1.024	mg/L	0.0012	1.024	mg/L	0.0012	0.12%
Pb 220.353†	14967.8	2.043	mg/L	0.0094	2.043	mg/L	0.0094	0.46%
Sb 206.836†	3635.4	2.137	mg/L	0.0022	2.137	mg/L	0.0022	0.10%
Se 196.026†	1883.5	2.033	mg/L	0.0045	2.033	mg/L	0.0045	0.22%
Si 288.158†	3514.5	2.189	mg/L	0.0129	2.189	mg/L	0.0129	0.59%
Sn 189.927†	2748.4	0.9281	mg/L	0.00214	0.9281	mg/L	0.00214	0.23%
Sr 421.552†	266532.5	1.067	mg/L	0.0037	1.067	mg/L	0.0037	0.35%
Ti 334.903†	19436.0	1.018	mg/L	0.0013	1.018	mg/L	0.0013	0.12%
Tl 190.801†	3825.5	2.006	mg/L	0.0066	2.006	mg/L	0.0066	0.33%
V 292.402†	118838.5	0.9901	mg/L	0.00512	0.9901	mg/L	0.00512	0.52%
Zn 206.200†	996.7	1.052	mg/L	0.0093	1.052	mg/L	0.0093	0.88%

Sequence No.: 19
Sample ID: CB 2
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 12/8/2008 2:14:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	120.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2204394.6	100.3	%	0.45				0.44%
ScR 361.383	151506.5	102.5	%	1.29				1.25%
Ag 328.068†	26.6	0.00017	mg/L	0.000196	0.00017	mg/L	0.000196	114.70%
Al 308.215†	0.5	0.00031	mg/L	0.009408	0.00031	mg/L	0.009408	>999.9%
As 188.979†	5.7	0.00502	mg/L	0.002767	0.00502	mg/L	0.002767	55.13%
B 249.677†	3.0	0.00193	mg/L	0.001024	0.00193	mg/L	0.001024	53.02%
Ba 233.527†	-5.7	-0.00089	mg/L	0.001144	-0.00089	mg/L	0.001144	128.02%
Be 313.042†	48.5	0.00022	mg/L	0.000050	0.00022	mg/L	0.000050	22.57%
Ca 317.933†	-5.2	-0.00057	mg/L	0.001728	-0.00057	mg/L	0.001728	305.45%
Cd 228.802†	8.6	0.00017	mg/L	0.000107	0.00017	mg/L	0.000107	60.99%
Co 228.616†	10.4	0.00020	mg/L	0.000166	0.00020	mg/L	0.000166	82.89%
Cr 267.716†	7.9	0.00208	mg/L	0.000823	0.00208	mg/L	0.000823	39.64%
Cu 324.752†	299.5	0.00132	mg/L	0.000228	0.00132	mg/L	0.000228	17.26%
Fe 273.955†	11.4	0.00931	mg/L	0.003049	0.00931	mg/L	0.003049	32.75%
K 766.490†	-40.1	-0.03972	mg/L	0.060757	-0.03972	mg/L	0.060757	152.95%
Mg 279.077†	24.8	0.02189	mg/L	0.012880	0.02189	mg/L	0.012880	58.84%
Mn 257.610†	13.1	0.00048	mg/L	0.000157	0.00048	mg/L	0.000157	32.50%
Mo 202.031†	4.8	0.00091	mg/L	0.000374	0.00091	mg/L	0.000374	41.05%
Na 589.592†	-280.9	-0.1442	mg/L	0.01128	-0.1442	mg/L	0.01128	7.82%
Na 330.237†	14.9	0.7135	mg/L	0.87286	0.7135	mg/L	0.87286	122.34%
Ni 231.604†	-3.9	-0.00387	mg/L	0.005485	-0.00387	mg/L	0.005485	141.73%
Pb 220.353†	0.6	0.00008	mg/L	0.000337	0.00008	mg/L	0.000337	427.73%
Sb 206.836†	-0.1	-0.00004	mg/L	0.001315	-0.00004	mg/L	0.001315	>999.9%
Se 196.026†	5.7	0.00618	mg/L	0.006090	0.00618	mg/L	0.006090	98.54%
Si 288.158†	-4.4	-0.00274	mg/L	0.021204	-0.00274	mg/L	0.021204	772.81%
Sn 189.927†	11.2	0.00378	mg/L	0.000781	0.00378	mg/L	0.000781	20.68%
Sr 421.552†	16.4	0.00007	mg/L	0.000130	0.00007	mg/L	0.000130	198.28%
Ti 334.903†	-15.2	-0.00080	mg/L	0.000685	-0.00080	mg/L	0.000685	85.98%
Tl 190.801†	5.2	0.00275	mg/L	0.003501	0.00275	mg/L	0.003501	127.52%
V 292.402†	73.2	0.00062	mg/L	0.000215	0.00062	mg/L	0.000215	34.50%
Zn 206.200†	-2.8	-0.00294	mg/L	0.001365	-0.00294	mg/L	0.001365	46.52%

end package

Metals Prep Logs

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: OA82

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SPIKING LOG

Analyst: DM

Date: 11-24-08

Final Volume 50

Final Volume (Hg):

Sample ID OA82 MBISPK

	Prepcode:	SW2		
	Spike Solution:	ICP Routine	ICP No GFA	GFA
	Standard No.:	2543-6		
	Vol Added (mL):	1.0		
STOCK CONCENTRATION	Ag	50		2.0
	Al	200	200	
	As	200		10
	Ba	200	200	
	Be	50	50	
	Ca	1000	1000	
	Cd	50		2.0
	Co	50	50	
	Cr	50	50	
	Cu	50 ✓	50	
	Fe	200	200	
	K	1000	1000	
	Mg	1000	1000	
	Mn	50	50	
	Na	1000	1000	
	Ni	50	50	
	Pb	200		10
	Se	200		10
	Sr	50	50	
	Tl	200		10
	V	50	50	
	Zn	50	50	

	ICP-MS #1	ICP-MS #2	ICP-MS Minerals
Ag	25		
Al			500
As	25		
Ba	25		
Be	25		
Ca			500
Cd	25		
Co	25		
Cr	25		
Cu	25		
Fe			500
K			500
Mg			500
Mn	25		
Mo		25	
Na			500
Ni	25		
Pb	25		
Sb		25	
Se	80		
Th	25		
U	25		
V	25		
Zn	80		

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std No.
Hg		CVA	1.0		
Hg MBSPK		CVA	1.0		
Sb		ICP	2000		
Sb		GFA	100		
B		ICP	500		
Mo		ICP	500		
Si		ICP	10000		
Sn		ICP	500		
Ti		ICP	2000		

Additional Elements:

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std. No.

OA82:09178

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Digestion Log

Analyst: DM
Matrix: Soil
Date: 11-24-08
Block Temp: 95°C

ARI Sample ID	Btl #	pH<2	Prep Code: SWC Initial Wt (g) ~~Vol (mL)~~	Prep Code: SWC Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
0823 A	1	–	1.025	50.0			
" B	1	–	1.032				
" C	1	–	1.028				
" D	1	–	1.038				
" E	1	–	1.019				
" F	1	–	1.071				
" MB	–	–	–				
" MBSPK	–	–	–				
0812 A	1	–	1.041				
" MB	–	–	–				
" MBSPK	–	–	–				
OA82 A	3	–	1.078				
" ADUP	3	–	1.079				
" MB1	–	–	–				
" MB1SPK	–	–	–				
OA25 A	2	–	1.023				
" AOVP	2	–	1.024				
" ASPK	2	–	1.024				
" MB1	–	–	–				
" MB1SPK	–	–	–				
0803 A	1	–	1.052				
" B	1	–	1.017				
" C	1	–	1.043				
" MB	–	–	–				
" MBSPK	–	–	–	50.0			

Chemical/Reagent ID:
HNO_3: AP1577 | I4559 HCl: I4398 H_2O_2: I4524 Tube Lot #: AB05L5309

OA82 : 00179

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Metals Total Solids

Oven in:
Analyst: DM Date: 11.24.08 Time: 1145 Temp: 100°C

Oven out:
Analyst: DM Date: 11.25.08 Time: 0900 Temp: 101°C

ARI Sample ID	Tare Weight (g)	Tare + Sample Wet (g)	Tare + Sample Dry (g)	Comments
0823 A	1.059	10.638	8.589	
" B	1.017	10.617	8.236	
" C	1.021	10.662	8.603	
" D	1.024	10.413	7.676	
" E	1.029	10.354	9.839	
" F	1.010	10.493	10.409	
0812 A	1.008	10.315	6.096	
0A82 A	0.999	10.498	6.820	
0A25 A	1.032	10.554	6.468	
0A88 A	1.018	10.321	8.881	
" B	1.031	10.120	8.971	
" C	1.000	10.316	8.097	
" D	1.006	10.467	8.478	
" E	1.019	10.868	8.944	
" F	1.022	10.505	8.641	
0803 A	1.009	10.444	10.286	
" B	1.020	10.682	9.545	
" C	1.020	10.688	9.572	
		11-24-08 DM		

Analytical Resources, Incorporated
Analytical Chemists and Consultants

November 11, 2008

Joy Dunay
Anchor Environmental
1423 3rd Avenue, Suite 300
Seattle, WA 98101

RE: 040289-02 Eddon Boatyard
ARI Job No.: NY16

Dear Joy:

Please find enclosed the Chain-of-Custody records, sample receipt documentation, and the final data package for samples from the project referenced above.

Sample receipt and details of the analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
-For-
Susan Dunnihoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures

cc: eFile NY16

Chain of Custody Documentation

Prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 04-0287-02

ARI Job No.: NY16

Prepared
By

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: NU79 ~~NU61~~	Turn-around Requested:	Page:	of
ARI Client Company: ANCHOR	Phone:	Date:	Ice Present?
Client Contact: DUNAY, JOY		No. of Coolers:	Cooler Temps:
Client Project Name: EDDON BOATYARD			
Client Project #: 04-02897-02	Samplers:		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: TPH-Dx	Notes/Comments
Composite of A+~~B~~C	10/16/08	12:22	H_2O	1	X	

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name:	Printed Name: Jonathon Walter	Printed Name:	Printed Name:
	Company:	Company: ARI	Company:	Company:
	Date & Time:	Date & Time: 10/16/08 1240	Date & Time:	Date & Time:

0004

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

0005

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: NW61	Turn-around Requested: 72 hr	Page: 1 of 1	
ARI Client Company: Anchor	Phone: 206 287 9130	Date: 10/15/08	Ice Present?
Client Contact: Joy Danay		No. of Coolers:	Cooler Temps:
Client Project Name: Eddon Boatyard			
Client Project #: 040289-02	Samplers: DG, JP		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: Pore-water TBT	mercury	TOC	Total Solids	SMS metals	SMS SVOC	SMS PCB	Grain Size	Notes/Comments
EB-SE-03-Z-081015	10/15	1340	Sed	6	X	X							
EB-SE-03-ZZ-081015	10/15	1340	Sed	1	X	X							Archive
		↓											
EB-SE-03-Z-081015-1		1300	Sed	2	X	X							Hold, Grab-1
													Freeze in 6 days

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
will call to confirm 10/16 morning	Printed Name: David Gillingham	Printed Name: Jonathon Walter	Printed Name:	Printed Name:
	Company: Anchor	Company: ARI	Company:	Company:
	Date & Time: 10/15/08 1720	Date & Time: 10/15/08 1720	Date & Time:	Date & Time:

2000

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

2000

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Anchor
COC No: _____
Assigned ARI Job No: NU61

Project Name: Eddon Boatyard
Delivered by: Hand
Tracking No: _____

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO
Record cooler temperature (recommended 2.0-6.0 °C for chemistry	9.4 °C	

Cooler Accepted by: JW Date: 10/15/08 Time: 1720

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?	YES	(NO)
What kind of packing material was used?	ICE	
Was sufficient ice used (if appropriate)?	YES	(NO)
Were all bottles sealed in individual plastic bags?	YES	(NO)
Did all bottle arrive in good condition (unbroken)?	(YES)	NO
Were all bottle labels complete and legible?	(YES)	NO
Did all bottle labels and tags agree with custody papers?	(YES)	NO
Were all bottles used correct for the requested analyses?	(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation checklist)	YES	(NO)
Were all VOC vials free of air bubbles? (NA)	YES	NO
Was sufficient amount of sample sent in each bottle?	(YES)	NO

Samples Logged by: JW Date: 10/15/08 Time: 1735

*** Notify Project Manager of discrepancies or concerns ***

Explain discrepancies or negative responses:

By: Date:

0003

Case Narrative

Prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 04-0287-02

ARI Job No.: NY16

Prepared
By

Analytical Resources, Inc.

Case Narrative

Client: Anchor Environmental
Project: 040289-02 Eddon Boatyard
ARI Job No.: NY16

Sample receipt

Three sediment samples were received by Analytical Resources on October 15, 2008 at a cooler temperature of 9.4°C measured by IR thermometer. Samples were well-iced, in good condition and received within a short time of sampling. Samples were logged under ARI Job NU61 for bulk analysis and pore water extractions, with two samples on hold.

On October 16, 2008, ARI was instructed to composite samples **EB-SE-03-Z-081015** and **EB-SE-03-Z-081015-1** for analysis. As the **EB-SE-03-Z-081015** sample aliquots were already weighed out for the pore water, equal amounts were weighed out from **EB-SE-03-Z-081015-1** and the resulting pore waters composited, and analyzed under ARI Job NY16 reported here.

The sample composite was named "Composite of A&C" by the Geotechnical Laboratory.

Mercury by Method SW846-7470

The sample was prepared and analyzed within the method recommended holding times.

The method blank was clean at the reporting limit. The LCS percent recovery was within the control limits.

The matrix spike percent recovery and the duplicate RPD were within control limits.

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U	Indicates that the target analyte was not detected at the reported concentration
*	Duplicate RPD is not within established control limits
B	Reported value is less than the CRDL but ≥ the Reporting Limit
N	Matrix Spike recovery not within established control limits
NA	Not Applicable, analyte not spiked
H	The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
L	Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U	Indicates that the target analyte was not detected at the reported concentration
*	Flagged value is not within established control limits
B	Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
J	Estimated concentration when the value is less than ARI's established reporting limits
D	The spiked compound was not detected due to sample extract dilution
NR	Spiked compound recovery is not reported due to chromatographic interference
E	Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
S	Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
NA	The flagged analyte was not analyzed for
NS	The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.

F Samples were frozen prior to particle size determination

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

Data Summary Package

Prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 04-0287-02

ARI Job No.: NY16

Prepared
By

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: EB-SE-03-Z-081015 COMPOSITE SAMPLE

Lab Sample ID: NY16A
LIMS ID: 08-30038
Matrix: Porewater
Data Release Authorized:
Reported: 11/10/08

QC Report No: NY16-Anchor Environmental, LLC
Project: Eddon Boatyard
04-0287-02
Date Sampled: 10/16/08
Date Received: 10/16/08

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
7470A	11/06/08	7470A	11/07/08	7439-97-6	Mercury	0.0001	0.0001	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: EB-SE-03-Z-081015 COMPOSITE
MATRIX SPIKE

Lab Sample ID: NY16A
LIMS ID: 08-30038
Matrix: Porewater
Data Release Authorized:
Reported: 11/10/08

QC Report No: NY16-Anchor Environmental, LLC
Project: Eddon Boatyard
04-0287-02
Date Sampled: 10/16/08
Date Received: 10/16/08

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Mercury	7470A	0.0001 U	0.0011	0.0010	110%	

Reported in mg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: EB-SE-03-Z-081015 COMPOSITE DUPLICATE

Lab Sample ID: NY16A
LIMS ID: 08-30038
Matrix: Porewater
Data Release Authorized:
Reported: 11/10/08

QC Report No: NY16-Anchor Environmental, LLC
Project: Eddon Boatyard
04-0287-02
Date Sampled: 10/16/08
Date Received: 10/16/08

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Mercury	7470A	0.0001 U	0.0001 U	0.0%	+/- 0.0001	L

Reported in mg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: NY16LCS
LIMS ID: 08-30038
Matrix: Porewater
Data Release Authorized:
Reported: 11/10/08

QC Report No: NY16-Anchor Environmental, LLC
Project: Eddon Boatyard
04-0287-02
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Mercury	7470A	0.0023	0.0020	115%	

Reported in mg/L

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: METHOD BLANK**

Lab Sample ID: NY16MB
LIMS ID: 08-30038
Matrix: Porewater
Data Release Authorized:
Reported: 11/10/08

QC Report No: NY16-Anchor Environmental, LLC
Project: Eddon Boatyard
04-0287-02
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
7470A	11/06/08	7470A	11/07/08	7439-97-6	Mercury	0.0001	0.0001	U

U-Analyte undetected at given RL
RL-Reporting Limit

Laboratory Data Package

Prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 04-0287-02

ARI Job No.: NY16

Prepared
By

Analytical Resources, Inc.

Metals Analysis
QC Summary Data

Prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 04-0287-02

ARI Job No.: NY16

Prepared
By

Analytical Resources, Inc.

Cover Page

INORGANIC ANALYSIS DATA PACKAGE

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: Eddon Boatyard

SDG: NY16

CLIENT ID	ARI ID	ARI LIMS ID	REPREP
EB-SE-03-Z-081015	NY16A	08-30038	
EB-SE-03-Z-081015D	NY16ADUP	08-30038	
EB-SE-03-Z-081015S	NY16ASPK	08-30038	
PBW	NY16MB1	08-30038	
LCSW	NY16MB1SPK	08-30038	

Were ICP interelement corrections applied ?	Yes/No	YES
Were ICP background corrections applied ?	Yes/No	YES
If yes - were raw data generated before application of background corrections ?	Yes/No	NO

Comments: _____

THIS DATA PACKAGE HAS BEEN REVIEWED AND AUTHORIZED FOR RELEASE BY:

Signature: _____ Name: Jay Kuhn

Date: 11/10/08 Title: Inorganics Director

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: EB-SE-03-Z-081015 COMPOSITE
MATRIX SPIKE

Lab Sample ID: NY16A
LIMS ID: 08-30038
Matrix: Porewater
Data Release Authorized:
Reported: 11/10/08

QC Report No: NY16-Anchor Environmental, LLC
Project: Eddon Boatyard
04-0287-02
Date Sampled: 10/16/08
Date Received: 10/16/08

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Mercury	7470A	0.0001 U	0.0011	0.0010	110%	

Reported in mg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: EB-SE-03-Z-081015 COMPOSITE DUPLICATE

Lab Sample ID: NY16A
LIMS ID: 08-30038
Matrix: Porewater
Data Release Authorized:
Reported: 11/10/08

QC Report No: NY16-Anchor Environmental, LLC
Project: Eddon Boatyard
04-0287-02
Date Sampled: 10/16/08
Date Received: 10/16/08

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Mercury	7470A	0.0001 U	0.0001 U	0.0%	+/- 0.0001	L

Reported in mg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: NY16LCS
LIMS ID: 08-30038
Matrix: Porewater
Data Release Authorized:
Reported: 11/10/08

QC Report No: NY16-Anchor Environmental, LLC
Project: Eddon Boatyard
04-0287-02
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Mercury	7470A	0.0023	0.0020	115%	

Reported in mg/L

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: NY16MB
LIMS ID: 08-30038
Matrix: Porewater
Data Release Authorized:
Reported: 11/10/08

QC Report No: NY16-Anchor Environmental, LLC
Project: Eddon Boatyard
04-0287-02
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
7470A	11/06/08	7470A	11/07/08	7439-97-6	Mercury	0.0001	0.0001	U

U-Analyte undetected at given RL
RL-Reporting Limit

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: Eddon Boatyard

SDG: NY16

UNITS: ug/L

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Mercury	HG	CVA	HG110701	8.0	7.88	98.5	4.0	4.04	101.0	4.05	101.3	4.03	100.8	4.05	101.3	4.12	103.0

Control Limits: Mercury 80-120; Other Metals 90-110

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: Eddon Boatyard

SDG: NY16

UNITS: ug/L

ANALYTE	EL	M	RUN	CCVTV	CCV6	%R	CCV7	%R	CCV8	%R	CCV9	%R	CCV10	%R	CCV11	%R
Mercury	HG	CVA	HG110701	4.0	4.11	102.8										

Control Limits: Mercury 80-120; Other Metals 90-110

CRDL Standard

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: Eddon Boatyard

SDG: NY16

UNITS: ug/L

ANALYTE	EL	M	RUN	CRA/I	TV	CR-1	%R	CR-2	%R	CR-3	%R	CR-4	%R	CR-5	%R	CR-6	%R
Mercury	HG	CVA	HG110701		0.1	0.12	120.0										

Control Limits: no control limits have been established by the EPA at this time.

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: Eddon Boatyard

SDG: NY16

UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	ICB	C	CCB1	C	CCB2	C	CCB3	C	CCB4	C	CCB5	C
Mercury	HG	CVA	HG110701	0.2	0.1	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: Eddon Boatyard

SDG: NY16

UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	CCB6	C	CCB7	C	CCB8	C	CCB9	C	CCB10	C	CCB11	C
Mercury	HG	CVA	HG110701	0.2	0.1	0.1	U										

IDLs and ICP Linear Ranges

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: Eddon Boatyard

SDG: NY16

UNITS: ug/L

ANALYTE	EL	METH	INSTRUMENT	WAVELENTH (nm)	GFA BACK-GROUND	CLP CRDL	RL	RL DATE	ICP LINEAR RANGE (ug/L)	ICP LR DATE
Mercury	HG	CVA	CETAC MERCURY	253.70		0.2	0.1	3/1/2008		

Preparation Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: Eddon Boatyard

SDG: NY16

ANALYSIS METHOD: CVA

ARI PREP CODE: TWM

PREPDATE: 11/6/2008

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
EB-SE-03-Z-081015	NY16A	0.000	20.0	20.0
EB-SE-03-Z-081015D	NY16ADUP	0.000	20.0	20.0
EB-SE-03-Z-081015S	NY16ASPK	0.000	20.0	20.0
PBW	NY16MB1	0.000	20.0	20.0
LCSW	NY16MB1SPK	0.000	20.0	20.0

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: Eddon Boatyard | INSTRUMENT ID: CETAC MERCURY | START DATE: 11/7/2008

SDG: NY16 | RUNID: HG110701 | METHOD: CVA | END DATE: 11/7/2008

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
S0	S0	1.00	10584														X																
S0.1	S0.1	1.00	11001														X																
S0.5	S0.5	1.00	11015														X																
S1	S1	1.00	11033														X																
S2	S2	1.00	11050														X																
S5	S5	1.00	11064														X																
S10	S10	1.00	11082														X																
ICV	AICV	1.00	11154														X																
ICB	ICB	1.00	11172														X																
CCV	ACCV1	1.00	11185														X																
CCB	CCB1	1.00	11203														X																
CRA	CRA	1.00	11221														X																
ZZZZZZ	NX18MB1	1.00	11235																														
ZZZZZZ	NX18MB1SPK	1.00	11252																														
ZZZZZZ	NX18A	1.00	11270																														
ZZZZZZ	NX18ADUP	1.00	11283																														
ZZZZZZ	NX18ASPK	1.00	11301																														
ZZZZZZ	NX48MB1	1.00	11315																														
ZZZZZZ	NX48MB1SPK	1.00	11333																														
ZZZZZZ	NX48A	1.00	11350																														
ZZZZZZ	NX48ADUP	1.00	11364																														
CCV	ACCV2	1.00	11382														X																
CCB	CCB2	1.00	11400														X																
ZZZZZZ	NX48ASPK	1.00	11414																														
ZZZZZZ	NV71MB1	1.00	11431																														
ZZZZZZ	NV71MB1SPK	1.00	11445																														
ZZZZZZ	NV71A	1.00	11463																														
ZZZZZZ	NV71ADUP	1.00	11480																														
ZZZZZZ	NV71ASPK	1.00	11494																														
ZZZZZZ	NV71MB2	1.00	11511																														
ZZZZZZ	NV71MB2SPK	1.00	11525																														
ZZZZZZ	NV71B	1.00	11543																														
ZZZZZZ	NV71BDUP	1.00	11561																														
CCV	ACCV3	1.00	11575														X																
CCB	CCB3	1.00	11593														X																

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: Eddon Boatyard | INSTRUMENT ID: CETAC MERCURY | START DATE: 11/7/2008

SDG: NY16 | RUNID: HG110701 | METHOD: CVA | END DATE: 11/7/2008

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
ZZZZZZ	NV71BSPK	1.00	12011																														
ZZZZZZ	NW24MB1	1.00	12024																														
ZZZZZZ	NW24MB1SPK	1.00	12042																														
ZZZZZZ	NW24A	1.00	12060																														
ZZZZZZ	NW24ADUP	1.00	12073																														
ZZZZZZ	NW24ASPK	1.00	12091																														
ZZZZZZ	NW47MB1	1.00	12105																														
ZZZZZZ	NW47MB1SPK	1.00	12122																														
ZZZZZZ	NW47A	1.00	12140																														
ZZZZZZ	NW47ADUP	1.00	12154																														
CCV	ACCV4	1.00	12172														X																
CCB	CCB4	1.00	12190														X																
ZZZZZZ	NW47ASPK	1.00	12204																														
ZZZZZZ	NW47MB2	1.00	12221																														
ZZZZZZ	NW47MB2SPK	1.00	12235																														
ZZZZZZ	NW47B	1.00	12253																														
ZZZZZZ	NW47BDUP	1.00	12271																														
ZZZZZZ	NW47BSPK	1.00	12284																														
ZZZZZZ	NX84MB1	1.00	12302																														
ZZZZZZ	NX84MB1SPK	1.00	12320																														
ZZZZZZ	NX84A	1.00	12333																														
ZZZZZZ	NX84ADUP	1.00	12351																														
CCV	ACCV5	1.00	12365														X																
CCB	CCB5	1.00	12383														X																
ZZZZZZ	NX84ASPK	1.00	12401																														
ZZZZZZ	NX84C	1.00	12415																														
PBW	NY16MB1	1.00	12433														X																
LCSW	NY16MB1SPK	1.00	12451														X																
EB-SE-03-Z-081015	NY16A	1.00	12464														X																
EB-SE-03-Z-081015D	NY16ADUP	1.00	12482														X																
EB-SE-03-Z-081015S	NY16ASPK	1.00	12500														X																
CCV	ACCV6	1.00	12514														X																
CCB	CCB6	1.00	12532														X																

Metals Analysis
Sample Data

Prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 04-0287-02

ARI Job No.: NY16

Prepared
By

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: EB-SE-03-Z-081015 COMPOSITE SAMPLE

Lab Sample ID: NY16A
LIMS ID: 08-30038
Matrix: Porewater
Data Release Authorized:
Reported: 11/10/08

QC Report No: NY16-Anchor Environmental, LLC
Project: Eddon Boatyard
04-0287-02
Date Sampled: 10/16/08
Date Received: 10/16/08

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
7470A	11/06/08	7470A	11/07/08	7439-97-6	Mercury	0.0001	0.0001	U

U-Analyte undetected at given RL
RL-Reporting Limit

Metals Analysis
Instrument Raw Data and Logs

Prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 04-0287-02

ARI Job No.: NY16

Prepared
By

Analytical Resources, Inc.

Mercury Analysis Log

Analyst: KM

Instrument: CETAC

Date: 11/07/08

Page: 1 of 7

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments	
STD 0.0	TWM	1x			
" 0.1					
" 0.5					
" 1.0					
" 2.0					
" 5.0					
" 10.0					
ICV			7.88	Begin CLP %R=99	✓
ICB			-0.01		✓
CCV1			4.04	%R=101	✓
CCB1			0.00		✓
CRA			0.12		✓
NX18 MB1	DMM		0.02		✓
" MB1SPK			2.26	%R=113	✓
" A			0.01		✓
" ADUP			0.02	No RPD: Undetected	✓
" ASPK			1.18	%R=118	✓
NX48 MB1			0.02		✓
" MB1SPK			2.44	%R=122	High x
" A			0.02		✓
" ADUP			0.03	No RPD: Undetected	✓
CCV2	TWM		4.05	%R=101	✓
CCB2			0.00		✓
NX48 ASPK	DMM		1.22	%R=122	✓
NV71 MB1	TWM		0.01		✓
" MB1SPK			2.30	%R=115	✓
" A			0.68		✓
" ADUP			0.72	RPD = 6%	✓
" ASPK			1.53	%R=85	✓
" MB2	DMM		0.01		✓

Chemical/Reagent ID:
10% $SnCl_2$: MP1573

14% NH_2OH/NaCl: MP1558

Standard ID:
Standard: 2543-7

ICV/CCV: 45-14

Mercury Analysis Log

Analyst: KM

Instrument: CETAC

Date: 11/07/08

Page: 2 of 7

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
NV71 MB2SPK	DMM	1X	2.25	%R = 113 ✓
" B	↓	↓	0.01	✓
" BDUP	↓	↓	0.02	No RPD: Undetected ✓
CCV3	TWM	↓	4.03	%R = 101 ✓
CCB3	↓	↓	0.01	✓
NV71 BSPK	DMM	↓	1.22	%R = 122 ✓
NW24 MB1	↓	↓	0.01	✓
" MB1SPK	↓	↓	2.28	%R = 114 ✓
" A	↓	↓	0.03	✓
" ADUP	↓	↓	0.04	No RPD: Undetected ✓
" ASPK	↓	↓	1.34	%R = 134 High x
NW47 MB1	TWM	↓	0.01	✓
" MB1SPK	↓	↓	2.31	%R = 116 ✓
" A	↓	↓	0.07	✓
" ADUP	↓	↓	0.08	No RPD: Undetected ✓
CCV4	↓	↓	4.05	%R = 101 ✓
CCB4	↓	↓	0.01	✓
NW47 ASPK	↓	↓	1.15	%R = 115 ✓
" MB2	DMM	↓	0.01	✓
" MB2SPK	↓	↓	2.18	%R = 109 ✓
" B	↓	↓	0.01	✓
" BDUP	↓	↓	0.01	No RPD: Undetected ✓
" BSPK	↓	↓	1.14	%R = 114 ✓
NX84 MB1	TWM	↓	0.01	✓
" MB1SPK	↓	↓	2.14	%R = 107 ✓
" A	↓	↓	1.70	✓
" ADUP	↓	↓	1.76	RPD = 3% ✓
CCV5	↓	↓	4.12	%R = 103 ✓
CCB5	↓	↓	-0.00	✓
NX84 ASPK	↓	↓	2.98	%R = 128 High x

Chemical/Reagent ID:

10% $SnCl_2$: MP1573

14% NH_2OH/NaCl: MP1558

Standard ID:

Standard: 2543-7

ICV/CCV: 45-14

Mercury Analysis Log

Analyst: KM

Instrument: CETAC

Date: 11/07/08

Page: 3 of 7

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
NX84 C	TWM	1X	0.00	
NY16 MB1			0.01	
" MB1SPK			2.31	%R= 116 ✓
" A			0.03	✓
" ADUP			0.04	No RPD: Undetected ✓
" ASPK			1.14	%R= 114 ✓
CCV6			4.11	%R= 103 ✓
CCB6			0.00	✓
NX48 MB1	DMM		0.01	
" MB1SPK			2.44	%R= 122 High X
" A			0.02	
" ADUP			0.04	No RPD: Undetected
" ASPK			1.24	%R= 124
NW24 A			0.03	
" ADUP			0.05	No RPD: Undetected
" ASPK			1.34	%R= 134 High X
NX84 A	TWM		1.72	
" ADUP			1.75	RPD= 2%
CCV7			4.14	%R= 104 ✓
CCB7			0.01	✓
NX84 ASPK			2.99	%R= 127 High X
CCV8			4.14	%R= 104 ✓
CCB8			0.00	End CLP ✓
NX02 MB2			0.02	✓
" MB2SPK			2.23	%R= 112 ✓
" C				
NX13 MB			0.01	✓
" MBSPK			2.45	%R= 123 High X
" A				
" B				

Detects Confirmed

Chemical/Reagent ID:

10% $SnCl_2$: MP1573

14% NH_2OH/NaCl: MP155B

Standard ID:

Standard: 2543-7

ICV/CCV: 45-14

0036

ANALYTICAL RESOURCES INCORPORATED

Metals Data Review Checklist

Method: ICP ICP-MS GFA (CVA)

Analysis Date: 11/07/08

	Analyst KM 11/07	Peer BW 11/7	Comment
Logbook:			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration:			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
Calibration Verification:			
ICV/CCV	✓	✓	
ICB/CCB	✓	✓	
Samples:			
RSD's & SD's	✓	✓	
Internal Standards	—	—	
Carry-over	✓	✓	
Method QC:			
CRI/CRA	✓	✓	
ICSA/ICSAB	—	—	
Post Spikes/Serial Dilutions	—	—	
Analytic Spikes	—	—	
Matrix QC:			
SRM/LCS	✓	✓	NX48, NX13
Matrix Spikes	✓	✓	NW24, NX84
Matrix Duplicates	✓	✓	
Method Blanks	✓	✓	
Data Distribution:			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
Necessary Analysts Notes and CAF's	✓	✓	NX48, NW24, NX84, NX13

CETAC Hg Analysis Report - 08110700.DB - Friday, November 07, 2008, 4:48:46 PM

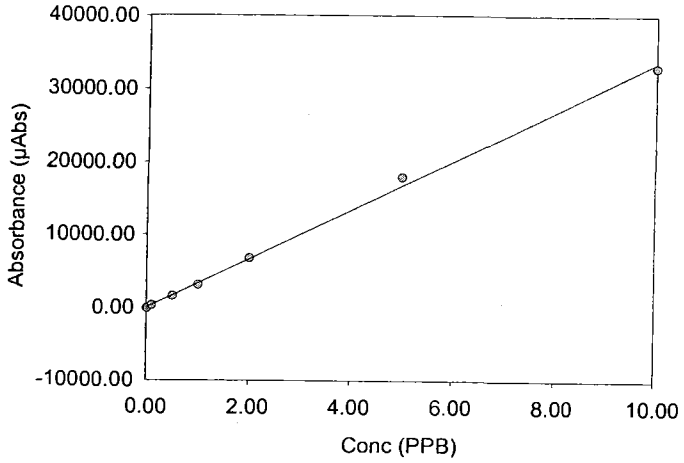
Analyst
Date Started Friday, November 07, 2008, 10:57:24
Worksheet ARI 10ppb CALIB
Comment

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
Std Tube 6	07-Nov-2008, 10:57	10.00	0.67	32900.00	1.00	

Information about this calibration could not be retrieved from the Master File.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
Calibration Zero	07-Nov-2008, 10:58	0.00	3.66	-72.20	1.00	
Standard #1	07-Nov-2008, 11:00	0.10	0.80	318.00	1.00	
Standard #2	07-Nov-2008, 11:01	0.50	0.84	1610.00	1.00	
Standard #3	07-Nov-2008, 11:03	1.00	0.71	3150.00	1.00	
Standard #4	07-Nov-2008, 11:05	2.00	0.72	6860.00	1.00	
Standard #5	07-Nov-2008, 11:06	5.00	0.68	18000.00	1.00	
Standard #6	07-Nov-2008, 11:08	10.00	0.77	33000.00	1.00	

Calibration Data



Int.	0.000
Slope	3363.216
Correlation	0.99898

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
ICV	07-Nov-2008, 11:15	7.88	0.49	26500.00	1.00	
ICB	07-Nov-2008, 11:17	-0.01	1.80	-47.70	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	07-Nov-2008, 11:18	4.04	0.58	13600.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	07-Nov-2008, 11:20	0.00	31.20	8.63	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CRA	07-Nov-2008, 11:22	0.12	0.73	390.00	1.00	
NX18 MB1 DMM	07-Nov-2008, 11:23	0.02	2.86	64.60	1.00	
NX18 MB1SPK DMM	07-Nov-2008, 11:25	2.26	0.50	7610.00	1.00	
NX18 A DMM	07-Nov-2008, 11:27	0.01	8.07	38.30	1.00	
NX18 ADUP DMM	07-Nov-2008, 11:28	0.02	3.12	84.00	1.00	
NX18 ASPK DMM	07-Nov-2008, 11:30	1.18	0.52	3970.00	1.00	
NX48 MB1 DMM	07-Nov-2008, 11:31	0.02	5.89	57.80	1.00	
NX48 MB1SPK DMM	07-Nov-2008, 11:33	2.44	0.59	8200.00	1.00	
NX48 A DMM	07-Nov-2008, 11:35	0.02	3.01	55.60	1.00	
NX48 ADUP DMM	07-Nov-2008, 11:36	0.03	1.89	100.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	07-Nov-2008, 11:38	4.05	0.67	13600.00	1.00	

CETAC Hg Analysis Report - 08110700.DB - Friday, November 07, 2008, 4:48:48 PM

Analyst
Date Started Friday, November 07, 2008, 11:40:06
Worksheet ARI 10ppb CALIB
Comment

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	07-Nov-2008, 11:40	0.00	43.60	7.61	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
NX48 ASPK DMM	07-Nov-2008, 11:41	1.22	0.45	4090.00	1.00	
NV71 MB1 TWM	07-Nov-2008, 11:43	0.01	6.81	46.40	1.00	
NV71 MB1SPK TWM	07-Nov-2008, 11:44	2.30	0.50	7750.00	1.00	
NV71 A TWM	07-Nov-2008, 11:46	0.68	0.56	2280.00	1.00	
NV71 ADUP TWM	07-Nov-2008, 11:48	0.72	0.35	2420.00	1.00	
NV71 ASPK TWM	07-Nov-2008, 11:49	1.53	0.43	5140.00	1.00	
NV71 MB2 DMM	07-Nov-2008, 11:51	0.01	2.90	37.80	1.00	
NV71 MB2SPK DMM	07-Nov-2008, 11:52	2.25	0.45	7560.00	1.00	
NV71 B DMM	07-Nov-2008, 11:54	0.01	5.49	31.50	1.00	
NV71 BDUP DMM	07-Nov-2008, 11:56	0.02	1.27	72.50	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	07-Nov-2008, 11:57	4.03	0.48	13600.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	07-Nov-2008, 11:59	0.01	13.80	20.80	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
NV71 BSPK DMM	07-Nov-2008, 12:01	1.22	0.32	4110.00	1.00	
NW24 MB1 DMM	07-Nov-2008, 12:02	0.01	7.08	41.40	1.00	
NW24 MB1SPK DMM	07-Nov-2008, 12:04	2.28	0.39	7680.00	1.00	
NW24 A DMM	07-Nov-2008, 12:06	0.03	1.28	89.00	1.00	
NW24 ADUP DMM	07-Nov-2008, 12:07	0.04	0.96	124.00	1.00	
NW24 ASPK DMM	07-Nov-2008, 12:09	1.34	0.36	4500.00	1.00	
NW47 MB1 TWM	07-Nov-2008, 12:10	0.01	3.48	19.60	1.00	
NW47 MB1SPK TWM	07-Nov-2008, 12:12	2.31	0.45	7760.00	1.00	
NW47 A TWM	07-Nov-2008, 12:14	0.07	1.15	219.00	1.00	
NW47 ADUP TWM	07-Nov-2008, 12:15	0.08	0.21	268.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	07-Nov-2008, 12:17	4.05	0.45	13600.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	07-Nov-2008, 12:19	0.01	8.14	22.70	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
NW47 ASPK TWM	07-Nov-2008, 12:20	1.15	0.36	3850.00	1.00	
NW47 MB2 DMM	07-Nov-2008, 12:22	0.01	12.70	23.30	1.00	
NW47 MB2SPK DMM	07-Nov-2008, 12:23	2.18	0.24	7320.00	1.00	
NW47 B DMM	07-Nov-2008, 12:25	0.01	3.98	33.10	1.00	
NW47 BDUP DMM	07-Nov-2008, 12:27	0.01	6.85	37.10	1.00	
NW47 BSPK DMM	07-Nov-2008, 12:28	1.14	0.36	3850.00	1.00	
NX84 MB1 TWM	07-Nov-2008, 12:30	0.01	5.12	33.50	1.00	
NX84 MB1SPK TWM	07-Nov-2008, 12:32	2.14	0.40	7200.00	1.00	
NX84 A TWM	07-Nov-2008, 12:33	1.70	0.26	5710.00	1.00	
NX84 ADUP TWM	07-Nov-2008, 12:35	1.76	0.37	5930.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	07-Nov-2008, 12:36	4.12	0.17	13800.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	07-Nov-2008, 12:38	-0.00	24.40	-9.40	1.00	

CETAC Hg Analysis Report - 08110700.DB - Friday, November 07, 2008, 4:48:50 PM

Analyst
Date Started Friday, November 07, 2008, 12:40:15
Worksheet ARI 10ppb CALIB
Comment

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
NX84 ASPK TWM	07-Nov-2008, 12:40	2.98	0.27	10000.00	1.00	
NX84 C TWM	07-Nov-2008, 12:41	0.00	3.60	16.10	1.00	
NY16 MB1 TWM	07-Nov-2008, 12:43	0.01	3.52	43.60	1.00	
NY16 MB1SPK TWM	07-Nov-2008, 12:45	2.31	0.39	7770.00	1.00	
NY16 A TWM	07-Nov-2008, 12:46	0.03	2.05	90.60	1.00	
NY16 ADUP TWM	07-Nov-2008, 12:48	0.04	1.39	129.00	1.00	
NY16 ASPK TWM	07-Nov-2008, 12:50	1.14	0.30	3820.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	07-Nov-2008, 12:51	4.11	0.30	13800.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	07-Nov-2008, 12:53	0.00	8.07	13.50	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
NX48 MB1 DMM	07-Nov-2008, 12:55	0.01	3.26	47.50	1.00	
NX48 MB1SPK DMM	07-Nov-2008, 12:56	2.44	0.32	8210.00	1.00	
NX48 A DMM	07-Nov-2008, 12:58	0.02	4.90	77.20	1.00	
NX48 ADUP DMM	07-Nov-2008, 13:00	0.04	1.22	123.00	1.00	
NX48 ASPK DMM	07-Nov-2008, 13:01	1.24	0.37	4160.00	1.00	
NW24 A DMM	07-Nov-2008, 13:03	0.03	1.76	111.00	1.00	
NW24 ADUP DMM	07-Nov-2008, 13:04	0.05	1.53	153.00	1.00	
NW24 ASPK DMM	07-Nov-2008, 13:06	1.34	0.36	4510.00	1.00	
NX84 A TWM	07-Nov-2008, 13:08	1.72	0.28	5780.00	1.00	
NX84 ADUP TWM	07-Nov-2008, 13:09	1.75	0.44	5890.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	07-Nov-2008, 13:11	4.14	0.24	13900.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	07-Nov-2008, 13:13	0.01	17.00	18.40	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
NX84 ASPK TWM	07-Nov-2008, 13:14	2.99	0.33	10000.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	07-Nov-2008, 13:16	4.14	0.29	13900.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	07-Nov-2008, 13:18	0.00	63.50	4.56	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
NX02 MB2 TWM	07-Nov-2008, 13:20	0.02	1.84	66.60	1.00	
NX02 MB2SPK TWM	07-Nov-2008, 13:21	2.23	0.22	7510.00	1.00	
NX02 C TWM	07-Nov-2008, 13:23	0.50	0.23	1690.00	1.00	
NX13 MB TWM	07-Nov-2008, 13:25	0.01	3.10	40.70	1.00	
NX13 MBSPK TWM	07-Nov-2008, 13:26	2.45	0.31	8250.00	1.00	
NX13 A TWM	07-Nov-2008, 13:28	0.03	2.63	95.30	1.00	
NX13 B TWM	07-Nov-2008, 13:29	0.05	2.32	163.00	1.00	
NX08 MB TWM	07-Nov-2008, 13:31	0.02	5.32	62.70	1.00	
NX08 MBSPK TWM	07-Nov-2008, 13:33	2.35	0.24	7900.00	1.00	
NX08 A TWM	07-Nov-2008, 13:34	0.06	0.52	205.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	07-Nov-2008, 13:36	4.17	0.26	14000.00	1.00	

Mercury Standard Prep Log

Prep Code: SMM
Analyst: KM
Instrument: 11/06/08
KM 11/06/08 ↓ ↑ Date: CETAC
Bath Temp: _____ Start Time: _____ End Time: _____

Standard ID	Stock ID	Volume Added (mL)	Final Volume (mL)	Standard Conc. (µg/L)	Number Made
STD0	—	0.00	100.0	0.0	2
STD1	2543-7	0.01		0.1	2
STD2		0.05		0.5	2
STD3		0.10		1.0	2
STD4		0.20		2.0	2
STD5		0.50		5.0	2
STD6		1.00		10.0	2
CRA		0.01		0.1	1
ICB/CCB	—	0.00		0.0	2
ICV/LCS	45-14	0.16		8.0	2
CCV	↓	0.08	100.0	4.0	2

Chemical/Reagent ID:

HNO_3: I4397 H_2SO_4: I4504 HCl: —

5% $K_2S_2O_8$: _____ 5% $KMnO_4$: _____

Prep Code: TWM Digested 20.0 mL Instrument: CETAC
Analyst: KM Date: 11/06/08
Bath Temp: 95°C Start Time: 1650 End Time: 1850

Standard ID	Stock ID	Volume Added (mL)	Final Volume (mL)	Standard Conc. (µg/L)	Number Made
STD0	—	0.00	100.0	0.0	1
STD1	2543-7	0.01		0.1	1
STD2		0.05		0.5	1
STD3		0.10		1.0	1
STD4		0.20		2.0	1
STD5		0.50		5.0	1
STD6		1.00		10.0	1
CRA	↓	0.01		0.1	1
ICB/CCB	—	0.00		0.0	1
ICV/LCS	45-14	0.16	↓	8.0	1
CCV	↓	0.08	100.0	4.0	1

Chemical/Reagent ID:

HNO_3: I4397 H_2SO_4: I4504 HCl: —

5% $K_2S_2O_8$: MP1561 5% $KMnO_4$: MP1560

*All corrections by MH 11/06/08

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Mercury Digestion Log

Prep Code: TWM Matrix: Water
Analyst: MH Date: 11/06/08
Bath Temp: 95°C Start Time: 1120 End Time: 1320

ARI Sample ID	Sample Bottle #	BOD Bottle #	pH<2	Initial Weight (g) Volume (mL)	Final Volume (mL)	# $KMnO_4$ Aliquots	CL P	Comments
NY07 M	1	—	✓	20.0	20.0	11/16 1	(N)	
" N	1	—	✓			1		
" O	7	—	✓			1		
" MB2	—	—	✓			1		
" MB2SPK	—	—	✓			1		
NX93 F	11	—	✓			11/14 1		
" MB2	—	—	✓			1		
" MB2SPK	—	—	✓			1	(N)	
NX84 A	15	—	*✓			11/18 1	(Y)	
" ADUP	15	—	*✓			1		
" ASPK	15	—	*✓			1		Preserved in Lab
" C	5	—	*✓			1		
" MB1	—	—	*✓			1		
" MB1SPK	—	—	*✓			1		11/10/8
NY16 A	1	—	✓			11/08 1		
" ADUP	1	—	✓			1		
" ASPK	1	—	✓			1		
" MB1	—	—	✓			1		
" MB1SPK	—	—	✓	20.0	20.0	1	(Y)	

MH 11/05/08

Chemical/Reagent ID:

HNO_3: I4397 H_2SO_4: I4504 HCl: —

5% $K_2S_2O_8$: MP1561 5% $KMnO_4$: MP1560

0042

Metals Analysis
Prep Logs

Prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 04-0287-02

ARI Job No.: NY16

Prepared
By

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SPIKING LOG

MH 11/06/08

Analyst: ~~AY16~~ MH

Date: 11/06/08

Final Volume _____

Final Volume (Hg): 20.0

Sample ID NY16 ASPK, MBSPK

Prepcode:				
Spike Solution:		ICP Routine	ICP No GFA	GFA
Standard No.:				
Vol Added (mL):				
STOCK CONCENTRATION	Ag	50		2.0
	Al	200	200	
	As	200		10
	Ba	200	200	
	Be	50	50	
	Ca	1000	1000	
	Cd	50		2.0
	Co	50	50	
	Cr	50	50	
	Cu	50	50	
	Fe	200	200	
	K	1000	1000	
	Mg	1000	1000	
	Mn	50	50	
	Na	1000	1000	
	Ni	50	50	
	Pb	200		10
	Se	200		10
	Sr	50	50	
	Tl	200		10
	V	50	50	
	Zn	50	50	

	ICP-MS #1	ICP-MS #2	ICP-MS Minerals
Ag	25		
Al			500
As	25		
Ba	25		
Be	25		
Ca			500
Cd	25		
Co	25		
Cr	25		
Cu	25		
Fe			500
K			500
Mg			500
Mn	25		
Mo		25	
Na			500
Ni	25		
Pb	25		
Sb		25	
Se	80		
Th	25		
U	25		
V	25		
Zn	80		

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std No.
Hg	TWM	CVA	1.0	0.02	25M-4
Hg MBSPK	↓	CVA	1.0	0.04	↓
Sb		ICP	2000		
Sb		GFA	100		
B		ICP	500		
Mo		ICP	500		
Si		ICP	10000		
Sn		ICP	500		
Ti		ICP	2000		

Additional Elements:

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std. No.

* All corrections by MH 11/06/08

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Mercury Digestion Log

Prep Code: TWM Matrix: Water
Analyst: MH Date: 11/06/08
Bath Temp: 95°C Start Time: 1120 End Time: 1320

ARI Sample ID	Sample Bottle #	BOD Bottle #	pH<2	Initial Weight (g) Volume (mL)	Final Volume (mL)	# $KMnO_4$ Aliquots	CL P	Comments
NY07 M	1	—	✓	20.0	20.0	11/16 1	(N)	
" N	1	—	✓			1		
" O	7	—	✓			1		
" MBZ	—	—	✓			1		
" MBZSPK	—	—	✓			1		
NX93 F	11	—	✓			11/14 1		
" MBZ	—	—	✓			1		
" MBZSPK	—	—	✓			1	(N)	
NX84 A	15	—	*✓			11/18 1	(Y)	
" ADUP	15	—	*✓			1		
" ASPK	15	—	*✓			1		Preserved in Lab
" C	5	—	*✓			1		
" MB1	—	—	*✓			1		
" MB1SPK	—	—	*✓			1		
NY16 A	1	—	✓			11/08 1		
" ADUP	1	—	✓			1		
" ASPK	1	—	✓			1		
" MB1	—	—	✓			1		
" MB1SPK	—	—	✓	20.0	20.0	1	(Y)	

MH 11/05/08

Chemical/Reagent ID:

HNO_3: I4397 H_2SO_4: I4504 HCl: —

5% $K_2S_2O_8$: MP1561 5% $KMnO_4$: MP1560

Analytical Resources, Incorporated
Analytical Chemists and Consultants

November 18, 2008

Joy Dunay
Anchor Environmental
1423 3rd Avenue, Suite 300
Seattle, WA 98101

RE: 040289-02 Eddon Boatyard
ARI Job No.: NX36

Dear Joy:

Please find enclosed the Chain-of-Custody (COC) record, sample receipt documentation, and the final data package for samples from the project referenced above.

Sample receipt and details of the analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Susan Dunnihoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures

cc: eFile NX36

SD/co

Chain of Custody
Documentation

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NX36

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

Bullhead Removal Area (2 samples)

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila WA 98168
206-695-6200 206-695-6201 (fax)

ARI Assigned Number: NX 356	Turn-around Requested: STANDARD
ARI Client Company: Anchor Environmental	Phone: 206-903-3320
Client Contact: Joy Dunay	
Client Project Name: EDDON BOATYARD	
Client Project #: 040289-02	Samplers: Joseph R. Parsley

Date: 10-30-08
Page: 1 of 1
No. of Coolers: 1 Cooler Temps: 6 4°C

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: TPH, TOC	SMS PAHs	Archive						Notes/Comments
EB-SE06-A-08	10/30/08	1:25pm	SE	3	X	X	X						
EB-SE07-A-08	10/30/08	1:05pm	SE	3	X	X	X						

Comments/Special Instructions

0002

Relinquished by: (Signature)	Joseph R. Parsley	Received by: (Signature)	
Printed Name:	Joseph R. Parsley	Printed Name:	S DUNNIHOO
Company:	Anchor Environmental	Company:	ARI
Date & Time:	10/30/08 1:15 pm	Date & Time:	10/30/08 16:50

Relinquished by: (Signature)		Received by: (Signature)	
Printed Name:		Printed Name:	
Company:		Company:	
Date & Time:		Date & Time:	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Anchor Project Name: Eddon Boatyard

COC No: _____ Delivered by: HAND

Assigned ARI Job No: NX36 Tracking No: _____

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO
Record cooler temperature (recommended 2.0-6.0 °C for chemistry	6.4 °C	

Cooler Accepted by: _____ Date: 10/30/08 Time: 16:35

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?	YES	(NO)
What kind of packing material was used?	Ice	
Was sufficient ice used (if appropriate)?	(YES)	NO
Were all bottles sealed in individual plastic bags?	YES	(NO)
Did all bottle arrive in good condition (unbroken)?	(YES)	NO
Were all bottle labels complete and legible?	(YES)	NO
Did all bottle labels and tags agree with custody papers?	(YES)	NO
Were all bottles used correct for the requested analyses?	(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation checklist)	YES	(NO)
Were all VOC vials free of air bubbles? (NA)	YES	NO
Was sufficient amount of sample sent in each bottle?	(YES)	NO

Samples Logged by: JW Date: 10/31/08 Time: 1000

*** Notify Project Manager of discrepancies or concerns ***

Explain discrepancies or negative responses:

By: Date:

Case Narrative

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NX36

prepared
by

Analytical Resources, Inc.

Case Narrative

Client: Anchor Environmental
Project: 040289-02 Eddon Boatyard
ARI Job No.: NX36

Sample receipt

Two sediment samples were received by Analytical Resources, Inc. (ARI) on October 30, 2008. The cooler temperature measured by IR thermometer following ARI SOP was 6.4°C. For further details regarding sample receipt, please refer to the Cooler Receipt Form.

PSDDA PNAs by SW8270D

The samples were extracted and analyzed within the method recommended holding times.

Initial and continuing calibrations were within method requirements. Internal standard areas were within limits.

The method blank was clean at the reporting limit. The LCS and LCSD percent recoveries were within control limits.

The surrogate percent recoveries were within control limits.

The matrix spike percent recovery of Benzo(g,h,i)perylene fell outside the advisory control limits slightly low for sample **EB-SE07-SE-A-081030**. No further corrective action is required for matrix QC as the outliers are indicators of matrix characteristics.

General Chemistry (TOC)

The samples were prepared and analyzed within the method recommended holding times.

The method blanks were clean at the reporting limits. The LCS percent recovery was within the control limits.

The SRM had an acceptable percent recovery.

The MS and replicate recoveries were within control limits.

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U	Indicates that the target analyte was not detected at the reported concentration
*	Duplicate RPD is not within established control limits
B	Reported value is less than the CRDL but ≥ the Reporting Limit
N	Matrix Spike recovery not within established control limits
NA	Not Applicable, analyte not spiked
H	The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
L	Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U	Indicates that the target analyte was not detected at the reported concentration
*	Flagged value is not within established control limits
B	Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
J	Estimated concentration when the value is less than ARI's established reporting limits
D	The spiked compound was not detected due to sample extract dilution
NR	Spiked compound recovery is not reported due to chromatographic interference
E	Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
S	Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
NA	The flagged analyte was not analyzed for
NS	The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.

F Samples were frozen prior to particle size determination

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

LCS SOLUTIONS

9/27/2008

LABE	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
1	1534-5	PCB	20	MEOH	08/26/09
2	1472-3	BCOC PEST	10	ACETONE	07/20/08
3	1517-1	PEST	02/04/20	ACETONE	05/15/09
4	1515-1	LOW PEST	0.2/0.4/2	ACETONE	01/24/09
5	1537-1	EPH	1500	MECL2	08/16/09
6*	1456-3	PCP	12.5	ACETONE	04/18/09
7	1541-3	ABN	100	ACETONE	08/01/09
8	1487-2	TBT	10	MECL2	12/15/08
9	1493-3	PORE TBT	.25/.5	MECL2	12/15/08
10	1537-2	ABN ACID	100/200	MEOH	04/10/09
11	1526-1	TPHD	15000	ACETONE	06/25/09
12	1542-1	ABN BASE	200	ACETONE	07/01/09
13*	1427-3	LOW PCB	2	ACETONE	10/11/08
14	1480-2	LOW ABN ACID	10/20	MEOH	10/09/08
15*	1452-1	SIM PNA	15/75	MEOH	04/09/09
16	1502-2	DIOXANE	100	MEOH	02/20/09
17	1516-2	1248 PCB	20	ACETONE	05/07/09
18	1514-4	LOW SIM PNA	1.5/7.5	ACETONE	04/24/09
19	1517-3	AK103	7500	MECL2	12/29/08
20	1490-4	PNA	100	MEOH	01/10/09
21*	1414-4	SKY/BHT	100	MEOH	04/08/09
22	1539-1	HERB	12.5/12500	MEOH	08/31/09
23	1505-1	LOW ABN BASE	20	MEOH	03/20/09
24	1541-4	LOW ABN	10	ACETONE	08/01/09
25	1481-1	DIPHENYL	100	MEOH	07/20/08
26	1545-2	OP-PEST	25	MEOH	02/14/09
27	1495-1	STEROLS	200	MEOH	12/29/08
28	1494-1	ADD. PEST	4	ACETONE	01/23/09
29	1496-3	DECANES	100	MEOH	02/12/09
30	1497-2	EDB/DBCP	2	ACETONE	02/12/09
31	1510-3	TERPINEOL	100	MEOH	03/21/09

LCS SOLUTIONS

9/27/2008

32	1545-3	GUAIACOL	50-200	ACETONE	06/05/09
33	1522-1	RESIN ACID	250	ACETONE	06/11/09
34	1530-2	CONGENERS	1	ACETONE	07/23/09
50	1523-1	FULL RESIN	250	ACETONE	06/10/09
*=REVERIFIED SOLUTION					

SURR SOLUTIONS

9/27/2008

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
A	1540-3	ABN	100/150	MEOH	03/13/09
B	1513-1	SIM PNA	15/75	MEOH	04/15/09
C*	1443-1	SIM ABN	10/15	MEOH	04/03/09
D	1538-3	LOW PCB	0.2	ACETONE	07/31/09
E	1478-1	HERB	62.5	MEOH	09/21/08
F	1520-3	PCP	12.5	ACETONE	04/18/09
G	1534-1	1,4DIOXANE	100	MEOH	02/20/09
H	1545-1	OP-PEST	25	MEOH	02/14/09
I*	1458-1	LOW S. PNA	03/15	MEOH	06/05/09
J	1493-2	TBT-PORE	0.25	MECL2	12/15/08
K	1538-1	MED PCB	20	ACETONE	07/31/09
L	1486-5	TBT	10	MECL2	12/15/08
M	1518-3	EPH	1500	MECL2	05/10/09
N	1538-2	PCB	2	ACETONE	07/31/09
O	1544-3	TPH	450	MECL2	09/24/09
P	1544-2	HCID	2250	MECL2	09/24/09
Q	1497-3	EDB	2	ACETONE	02/12/09
R	1521-4	RESIN ACID	250	ACETONE	06/11/09
S	*RE-VER	FIED SOLUT	ION		
T					
U					
V					
W					
X					
Y					
Z					

Data Summary Package

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NX36

prepared
by

Analytical Resources, Inc.

SVOA

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PNAs by SW8270D GC/MS

Sample ID: EB-SE06-SE-A-081030
SAMPLE

Lab Sample ID: NX36A
LIMS ID: 08-29554
Matrix: Sediment
Data Release Authorized:
Reported: 11/17/08

QC Report No: NX36-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/30/08
Date Received: 10/30/08

Date Extracted: 11/10/08
Date Analyzed: 11/14/08 21:13
Instrument/Analyst: NT6/LJR
GPC Cleanup: No
Alumina: No
Silica Gel: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 24.6%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
90-12-0	1-Methylnaphthalene	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
86-73-7	Fluorene	20	< 20 U
85-01-8	**Phenanthrene**	**20**	**17 J**
120-12-7	**Anthracene**	**20**	**17 J**
206-44-0	**Fluoranthene**	**20**	**59**
129-00-0	**Pyrene**	**20**	**62**
56-55-3	**Benzo(a)anthracene**	**20**	**26**
218-01-9	**Chrysene**	**20**	**59**
205-99-2	**Benzo(b)fluoranthene**	**20**	**37**
207-08-9	**Benzo(k)fluoranthene**	**20**	**62**
50-32-8	**Benzo(a)pyrene**	**20**	**30**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**20**	**18 J**
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	**Benzo(g,h,i)perylene**	**20**	**29**
132-64-9	Dibenzofuran	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	76.8%
2-Fluorobiphenyl	58.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PNAs by SW8270D GC/MS

Sample ID: EB-SE07-SE-A-081030
SAMPLE

Lab Sample ID: NX36B
LIMS ID: 08-29555
Matrix: Sediment
Data Release Authorized:
Reported: 11/17/08

QC Report No: NX36-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/30/08
Date Received: 10/30/08

Date Extracted: 11/10/08
Date Analyzed: 11/14/08 21:47
Instrument/Analyst: NT6/LJR
GPC Cleanup: No
Alumina: No
Silica Gel: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 24.9%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
90-12-0	1-Methylnaphthalene	20	< 20 U
208-96-8	**Acenaphthylene**	**20**	**17 J**
83-32-9	Acenaphthene	20	< 20 U
86-73-7	Fluorene	20	< 20 U
85-01-8	**Phenanthrene**	**20**	**32**
120-12-7	**Anthracene**	**20**	**28**
206-44-0	**Fluoranthene**	**20**	**120**
129-00-0	**Pyrene**	**20**	**120**
56-55-3	**Benzo(a)anthracene**	**20**	**48**
218-01-9	**Chrysene**	**20**	**93**
205-99-2	**Benzo(b)fluoranthene**	**20**	**100**
207-08-9	**Benzo(k)fluoranthene**	**20**	**55**
50-32-8	**Benzo(a)pyrene**	**20**	**52**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**20**	**30**
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	**Benzo(g,h,i)perylene**	**20**	**39**
132-64-9	Dibenzofuran	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	72.0%
2-Fluorobiphenyl	62.4%

ANALYTICAL RESOURCES INCORPORATED

SW8270 PNA SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: NX36-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02

Client ID	TER	FBP	TOT OUT
EB-SE06-SE-A-081030	76.8%	58.8%	0
MB-111008	75.6%	58.8%	0
LCS-111008	76.8%	58.4%	0
LCSD-111008	72.4%	56.4%	0
EB-SE07-SE-A-081030	72.0%	62.4%	0
EB-SE07-SE-A-081030 MS	74.4%	62.0%	0
EB-SE07-SE-A-081030 MSD	77.2%	62.4%	0

	LCS/MB LIMITS	QC LIMITS
(TER) = d14-p-Terphenyl	(41-109)	(39-111)
(FBP) = 2-Fluorobiphenyl	(33-93)	(32-94)

Prep Method: SW3550B
Log Number Range: 08-29554 to 08-29555

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PNAs by SW8270D GC/MS

Sample ID: EB-SE07-SE-A-081030
MS/MSD

Lab Sample ID: NX36B
LIMS ID: 08-29555
Matrix: Sediment
Data Release Authorized:
Reported: 11/17/08

QC Report No: NX36-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/30/08
Date Received: 10/30/08

Date Extracted MS/MSD: 11/10/08

Sample Amount MS: 26.1 g-dry-wt
MSD: 25.6 g-dry-wt

Date Analyzed MS: 11/14/08 22:21
MSD: 11/14/08 22:54

Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL

Instrument/Analyst MS: NT6/LJR
MSD: NT6/LJR

Dilution Factor MS: 1.00
MSD: 1.00

GPC Cleanup: No
Silica Gel Cleanup: No

Alumina Cleanup: No

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Naphthalene	< 19.6	268	479	55.9%	310	488	63.5%	14.5%
2-Methylnaphthalene	< 19.6	352	479	73.5%	392	488	80.3%	10.8%
1-Methylnaphthalene	< 19.6	298	479	62.2%	336	488	68.9%	12.0%
Acenaphthylene	16.7	336	479	66.7%	345	488	67.3%	2.6%
Acenaphthene	< 19.6	323	479	67.4%	334	488	68.4%	3.3%
Fluorene	< 19.6	360	479	75.2%	377	488	77.3%	4.6%
Phenanthrene	32.2	379	479	72.4%	387	488	72.7%	2.1%
Anthracene	28.2	372	479	71.8%	381	488	72.3%	2.4%
Fluoranthene	119	516	479	82.9%	471	488	72.1%	9.1%
Pyrene	125	462	479	70.4%	475	488	71.7%	2.8%
Benzo(a)anthracene	48.0	413	479	76.2%	412	488	74.6%	0.2%
Chrysene	93.3	457	479	75.9%	451	488	73.3%	1.3%
Benzo(b)fluoranthene	105	537	479	90.2%	474	488	75.6%	12.5%
Benzo(k)fluoranthene	54.9	490	479	90.8%	553	488	102%	12.1%
Benzo(a)pyrene	51.8	432	479	79.4%	434	488	78.3%	0.5%
Indeno(1,2,3-cd)pyrene	30.2	209	479	37.3%	236	488	42.2%	12.1%
Dibenz(a,h)anthracene	< 19.6	211	479	44.1%	234	488	48.0%	10.3%
Benzo(g,h,i)perylene	39.0	187	479	30.9%	213	488	35.7%	13.0%
Dibenzofuran	< 19.6	317	479	66.2%	329	488	67.4%	3.7%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PNAs by SW8270D GC/MS
Page 1 of 1

Sample ID: EB-SE07-SE-A-081030
MATRIX SPIKE

Lab Sample ID: NX36B
LIMS ID: 08-29555
Matrix: Sediment
Data Release Authorized:
Reported: 11/17/08

QC Report No: NX36-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/30/08
Date Received: 10/30/08

Date Extracted: 11/10/08
Date Analyzed: 11/14/08 22:21
Instrument/Analyst: NT6/LJR
GPC Cleanup: No
Alumina: No
Silica Gel: No

Sample Amount: 26.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 24.9%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	19	---
91-57-6	2-Methylnaphthalene	19	---
90-12-0	1-Methylnaphthalene	19	---
208-96-8	Acenaphthylene	19	---
83-32-9	Acenaphthene	19	---
86-73-7	Fluorene	19	---
85-01-8	Phenanthrene	19	---
120-12-7	Anthracene	19	---
206-44-0	Fluoranthene	19	---
129-00-0	Pyrene	19	---
56-55-3	Benzo(a)anthracene	19	---
218-01-9	Chrysene	19	---
205-99-2	Benzo(b)fluoranthene	19	---
207-08-9	Benzo(k)fluoranthene	19	---
50-32-8	Benzo(a)pyrene	19	---
193-39-5	Indeno(1,2,3-cd)pyrene	19	---
53-70-3	Dibenz(a,h)anthracene	19	---
191-24-2	Benzo(g,h,i)perylene	19	---
132-64-9	Dibenzofuran	19	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	74.4%
2-Fluorobiphenyl	62.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PNAs by SW8270D GC/MS
Page 1 of 1

Sample ID: EB-SE07-SE-A-081030
MATRIX SPIKE DUPLICATE

Lab Sample ID: NX36B
LIMS ID: 08-29555
Matrix: Sediment
Data Release Authorized:
Reported: 11/17/08

QC Report No: NX36-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/30/08
Date Received: 10/30/08

Date Extracted: 11/10/08
Date Analyzed: 11/14/08 22:54
Instrument/Analyst: NT6/LJR
GPC Cleanup: No
Alumina: No
Silica Gel: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 24.9%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	20	---
91-57-6	2-Methylnaphthalene	20	---
90-12-0	1-Methylnaphthalene	20	---
208-96-8	Acenaphthylene	20	---
83-32-9	Acenaphthene	20	---
86-73-7	Fluorene	20	---
85-01-8	Phenanthrene	20	---
120-12-7	Anthracene	20	---
206-44-0	Fluoranthene	20	---
129-00-0	Pyrene	20	---
56-55-3	Benzo(a)anthracene	20	---
218-01-9	Chrysene	20	---
205-99-2	Benzo(b)fluoranthene	20	---
207-08-9	Benzo(k)fluoranthene	20	---
50-32-8	Benzo(a)pyrene	20	---
193-39-5	Indeno(1,2,3-cd)pyrene	20	---
53-70-3	Dibenz(a,h)anthracene	20	---
191-24-2	Benzo(g,h,i)perylene	20	---
132-64-9	Dibenzofuran	20	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	77.2%
2-Fluorobiphenyl	62.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PNAs by SW8270D GC/MS
Page 1 of 1

Sample ID: LCS-111008
LCS/LCSD

Lab Sample ID: LCS-111008
LIMS ID: 08-29555
Matrix: Sediment
Data Release Authorized:
Reported: 11/17/08

QC Report No: NX36-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: 10/30/08

Date Extracted LCS/LCSD: 11/10/08

Date Analyzed LCS: 11/14/08 20:05
LCSD: 11/14/08 20:39
Instrument/Analyst LCS: NT6/LJR
LCSD: NT6/LJR

Sample Amount LCS: 25.0 g
LCSD: 25.0 g
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

GPC Cleanup: No
Silica Gel Cleanup: No
Alumina Cleanup: No

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Naphthalene	315	500	63.0%	294	500	58.8%	6.9%
2-Methylnaphthalene	380	500	76.0%	355	500	71.0%	6.8%
1-Methylnaphthalene	318	500	63.6%	298	500	59.6%	6.5%
Acenaphthylene	324	500	64.8%	303	500	60.6%	6.7%
Acenaphthene	321	500	64.2%	305	500	61.0%	5.1%
Fluorene	342	500	68.4%	326	500	65.2%	4.8%
Phenanthrene	357	500	71.4%	342	500	68.4%	4.3%
Anthracene	351	500	70.2%	333	500	66.6%	5.3%
Fluoranthene	406	500	81.2%	377	500	75.4%	7.4%
Pyrene	388	500	77.6%	365	500	73.0%	6.1%
Benzo(a)anthracene	394	500	78.8%	369	500	73.8%	6.6%
Chrysene	392	500	78.4%	364	500	72.8%	7.4%
Benzo(b)fluoranthene	412	500	82.4%	408	500	81.6%	1.0%
Benzo(k)fluoranthene	439	500	87.8%	400	500	80.0%	9.3%
Benzo(a)pyrene	398	500	79.6%	374	500	74.8%	6.2%
Indeno(1,2,3-cd)pyrene	294	500	58.8%	260	500	52.0%	12.3%
Dibenz(a,h)anthracene	310	500	62.0%	274	500	54.8%	12.3%
Benzo(g,h,i)perylene	266	500	53.2%	230	500	46.0%	14.5%
Dibenzofuran	307	500	61.4%	291	500	58.2%	5.4%

Semivolatile Surrogate Recovery

	LCS	LCSD
d14-p-Terphenyl	76.8%	72.4%
2-Fluorobiphenyl	58.4%	56.4%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

4B

SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

NX36MBS1

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NX36 Project: EDDON BOATYARD

Lab File ID: NX36MB Date Extracted: 11/10/08

Instrument ID: NT6 Date Analyzed: 11/14/08

Matrix: SOLID Time Analyzed: 1932

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	NX36LCSS1	NX36LCSS1	NX36SB	11/14/08
02	NX36LCSDS1	NX36LCSDS1	NX36SBD	11/14/08
03	EB-SE06-SE-A-081	NX36A	NX36A	11/14/08
04	EB-SE07-SE-A-081	NX36B	NX36B	11/14/08
05	EB-SE07-SE-A-08	NX36BMS	NX36BMS	11/14/08
06	EB-SE07-SE-A-08	NX36BMSD	NX36BMD	11/14/08
07				
08				
09				
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30				

COMMENTS:

FORM IV SV

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PNAs by SW8270D GC/MS

Sample ID: MB-111008
METHOD BLANK

Lab Sample ID: MB-111008
LIMS ID: 08-29555
Matrix: Sediment
Data Release Authorized:
Reported: 11/17/08

QC Report No: NX36-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 11/10/08
Date Analyzed: 11/14/08 19:32
Instrument/Analyst: NT6/LJR
GPC Cleanup: No
Alumina: No
Silica Gel: No

Sample Amount: 25.0 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
90-12-0	1-Methylnaphthalene	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
86-73-7	Fluorene	20	< 20 U
85-01-8	Phenanthrene	20	< 20 U
120-12-7	Anthracene	20	< 20 U
206-44-0	Fluoranthene	20	< 20 U
129-00-0	Pyrene	20	< 20 U
56-55-3	Benzo(a)anthracene	20	< 20 U
218-01-9	Chrysene	20	< 20 U
205-99-2	Benzo(b)fluoranthene	20	< 20 U
207-08-9	Benzo(k)fluoranthene	20	< 20 U
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	75.6%
2-Fluorobiphenyl	58.8%

GENERAL CHEMISTRY

SAMPLE RESULTS-CONVENTIONALS
NX36-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/13/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/30/08
Date Received: 10/30/08

Client ID: EB-SE06-SE-A-081030
ARI ID: 08-29554 NX36A

Analyte	Date	Method	Units	RL	Sample
Total Solids	10/31/08 103108#1	EPA 160.3	Percent	0.01	69.70
Total Organic Carbon	11/12/08 111208#1	Plumb,1981	Percent	0.020	0.646

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NX36-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/13/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/30/08
Date Received: 10/30/08

Client ID: EB-SE07-SE-A-081030
ARI ID: 08-29555 NX36B

Analyte	Date	Method	Units	RL	Sample
Total Solids	10/31/08 103108#1	EPA 160.3	Percent	0.01	72.70
Total Organic Carbon	11/12/08 111208#1	Plumb,1981	Percent	0.020	0.796

RL Analytical reporting limit
U Undetected at reported detection limit

MS/MSD RESULTS-CONVENTIONALS
NX36-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/13/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/30/08
Date Received: 10/30/08

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: NX36A Client ID: EB-SE06-SE-A-081030						
Total Organic Carbon	11/12/08	Percent	0.646	1.39	0.671	111.0%

REPLICATE RESULTS-CONVENTIONALS
NX36-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/13/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/30/08
Date Received: 10/30/08

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: NX36A Client ID: EB-SE06-SE-A-081030					
Total Solids	10/31/08	Percent	69.70	71.50 71.00	1.3%
Total Organic Carbon	11/12/08	Percent	0.646	0.698 0.650	4.4%

LAB CONTROL RESULTS-CONVENTIONALS
NX36-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/13/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon	11/12/08	Percent	0.514	0.500	102.8%

METHOD BLANK RESULTS-CONVENTIONALS
NX36-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/13/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	10/31/08	Percent	< 0.01 U
Total Organic Carbon	11/12/08	Percent	< 0.020 U

STANDARD REFERENCE RESULTS-CONVENTIONALS
NX36-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/13/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon NIST #8704	11/12/08	Percent	3.17	3.35	94.6%

TOTAL SOLIDS

Extractions Total Solids-extts
Data By: Tae K. You
Created: 11/ 3/08

Worklist: 4420
Analyst: RVR
Comments:

	ARI ID CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1.	NX36A 08-29554 EB-SE06-SE-A-081030	1.16	11.20	8.73	75.4	NR
2.	NX36B 08-29555 EB-SE07-SE-A-081030	1.16	11.75	9.11	75.1	NR

Laboratory Data Package

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NX36

prepared
by

Analytical Resources, Inc.

SVOA Analysis
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NX36

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

SW8270 PNA SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: NX36-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02

Client ID	TER	FBP	TOT OUT
EB-SE06-SE-A-081030	76.8%	58.8%	0
MB-111008	75.6%	58.8%	0
LCS-111008	76.8%	58.4%	0
LCSD-111008	72.4%	56.4%	0
EB-SE07-SE-A-081030	72.0%	62.4%	0
EB-SE07-SE-A-081030 MS	74.4%	62.0%	0
EB-SE07-SE-A-081030 MSD	77.2%	62.4%	0

	LCS/MB LIMITS	QC LIMITS
(TER) = d14-p-Terphenyl	(41-109)	(39-111)
(FBP) = 2-Fluorobiphenyl	(33-93)	(32-94)

Prep Method: SW3550B
Log Number Range: 08-29554 to 08-29555

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PNAs by SW8270D GC/MS
Page 1 of 1

Sample ID: EB-SE07-SE-A-081030
MS/MSD

Lab Sample ID: NX36B
LIMS ID: 08-29555
Matrix: Sediment
Data Release Authorized:
Reported: 11/17/08

QC Report No: NX36-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/30/08
Date Received: 10/30/08

Date Extracted MS/MSD: 11/10/08

Sample Amount MS: 26.1 g-dry-wt
MSD: 25.6 g-dry-wt

Date Analyzed MS: 11/14/08 22:21
MSD: 11/14/08 22:54

Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL

Instrument/Analyst MS: NT6/LJR
MSD: NT6/LJR

Dilution Factor MS: 1.00
MSD: 1.00

GPC Cleanup: No
Silica Gel Cleanup: No

Alumina Cleanup: No

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Naphthalene	< 19.6	268	479	55.9%	310	488	63.5%	14.5%
2-Methylnaphthalene	< 19.6	352	479	73.5%	392	488	80.3%	10.8%
1-Methylnaphthalene	< 19.6	298	479	62.2%	336	488	68.9%	12.0%
Acenaphthylene	16.7	336	479	66.7%	345	488	67.3%	2.6%
Acenaphthene	< 19.6	323	479	67.4%	334	488	68.4%	3.3%
Fluorene	< 19.6	360	479	75.2%	377	488	77.3%	4.6%
Phenanthrene	32.2	379	479	72.4%	387	488	72.7%	2.1%
Anthracene	28.2	372	479	71.8%	381	488	72.3%	2.4%
Fluoranthene	119	516	479	82.9%	471	488	72.1%	9.1%
Pyrene	125	462	479	70.4%	475	488	71.7%	2.8%
Benzo(a)anthracene	48.0	413	479	76.2%	412	488	74.6%	0.2%
Chrysene	93.3	457	479	75.9%	451	488	73.3%	1.3%
Benzo(b)fluoranthene	105	537	479	90.2%	474	488	75.6%	12.5%
Benzo(k)fluoranthene	54.9	490	479	90.8%	553	488	102%	12.1%
Benzo(a)pyrene	51.8	432	479	79.4%	434	488	78.3%	0.5%
Indeno(1,2,3-cd)pyrene	30.2	209	479	37.3%	236	488	42.2%	12.1%
Dibenz(a,h)anthracene	< 19.6	211	479	44.1%	234	488	48.0%	10.3%
Benzo(g,h,i)perylene	39.0	187	479	30.9%	213	488	35.7%	13.0%
Dibenzofuran	< 19.6	317	479	66.2%	329	488	67.4%	3.7%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PNAs by SW8270D GC/MS
Page 1 of 1

Sample ID: LCS-111008
LCS/LCSD

Lab Sample ID: LCS-111008
LIMS ID: 08-29555
Matrix: Sediment
Data Release Authorized:
Reported: 11/17/08

QC Report No: NX36-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: 10/30/08

Date Extracted LCS/LCSD: 11/10/08

Date Analyzed LCS: 11/14/08 20:05
LCSD: 11/14/08 20:39
Instrument/Analyst LCS: NT6/LJR
LCSD: NT6/LJR
GPC Cleanup: No
Silica Gel Cleanup: No

Sample Amount LCS: 25.0 g
LCSD: 25.0 g
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Alumina Cleanup: No

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Naphthalene	315	500	63.0%	294	500	58.8%	6.9%
2-Methylnaphthalene	380	500	76.0%	355	500	71.0%	6.8%
1-Methylnaphthalene	318	500	63.6%	298	500	59.6%	6.5%
Acenaphthylene	324	500	64.8%	303	500	60.6%	6.7%
Acenaphthene	321	500	64.2%	305	500	61.0%	5.1%
Fluorene	342	500	68.4%	326	500	65.2%	4.8%
Phenanthrene	357	500	71.4%	342	500	68.4%	4.3%
Anthracene	351	500	70.2%	333	500	66.6%	5.3%
Fluoranthene	406	500	81.2%	377	500	75.4%	7.4%
Pyrene	388	500	77.6%	365	500	73.0%	6.1%
Benzo(a)anthracene	394	500	78.8%	369	500	73.8%	6.6%
Chrysene	392	500	78.4%	364	500	72.8%	7.4%
Benzo(b)fluoranthene	412	500	82.4%	408	500	81.6%	1.0%
Benzo(k)fluoranthene	439	500	87.8%	400	500	80.0%	9.3%
Benzo(a)pyrene	398	500	79.6%	374	500	74.8%	6.2%
Indeno(1,2,3-cd)pyrene	294	500	58.8%	260	500	52.0%	12.3%
Dibenz(a,h)anthracene	310	500	62.0%	274	500	54.8%	12.3%
Benzo(g,h,i)perylene	266	500	53.2%	230	500	46.0%	14.5%
Dibenzofuran	307	500	61.4%	291	500	58.2%	5.4%

Semivolatile Surrogate Recovery

	LCS	LCSD
d14-p-Terphenyl	76.8%	72.4%
2-Fluorobiphenyl	58.4%	56.4%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

4B

SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

NX36MBS1

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NX36 Project: EDDON BOATYARD

Lab File ID: NX36MB Date Extracted: 11/10/08

Instrument ID: NT6 Date Analyzed: 11/14/08

Matrix: SOLID Time Analyzed: 1932

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	NX36LCSS1	NX36LCSS1	NX36SB	11/14/08
02	NX36LCSDS1	NX36LCSDS1	NX36SBD	11/14/08
03	EB-SE06-SE-A-081	NX36A	NX36A	11/14/08
04	EB-SE07-SE-A-081	NX36B	NX36B	11/14/08
05	EB-SE07-SE-A-08	NX36BMS	NX36BMS	11/14/08
06	EB-SE07-SE-A-08	NX36BMSD	NX36BMD	11/14/08
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
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23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM IV SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

Instrument ID: NT6 Project: EDDON BOATYARD

DFTPP Injection Date: 10/30/08 DFTPP Injection Time: 1658

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	58.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	67.0
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	56.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	28.9
365	Greater than 0.75% of mass 198	3.48
441	Present, but less than mass 443	12.6
442	40.0 - 110.0% of mass 198	83.8
443	15.0 - 24.0% of mass 442	17.3 (20.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ABN 25	ABN 25	0251030	10/30/08	1658
02	ABN 80	ABN 80	0801030	10/30/08	1732
03	ABN 1	ABN 1	0011030	10/30/08	1807
04	ABN 40	ABN 40	0401030	10/30/08	1841
05	ABN 5	ABN 5	0051030	10/30/08	1915
06	ABN 10	ABN 10	0101030	10/30/08	1950
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

Instrument ID: NT6 Project: EDDON BOATYARD

DFTPP Injection Date: 11/14/08 DFTPP Injection Time: 1104

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	56.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	63.5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	56.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.3
275	10.0 - 30.0% of mass 198	26.4
365	Greater than 0.75% of mass 198	3.57
441	Present, but less than mass 443	13.0
442	40.0 - 110.0% of mass 198	78.2
443	15.0 - 24.0% of mass 442	15.7 (20.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ABN CCAL	ABN 25	CC1114	11/14/08	1104
02	NX36MBS1	NX36MBS1	NX36MB	11/14/08	1932
03	NX36LCSS1	NX36LCSS1	NX36SB	11/14/08	2005
04	NX36LCSDS1	NX36LCSDS1	NX36SBD	11/14/08	2039
05	EB-SE06-SE-A-081	NX36A	NX36A	11/14/08	2113
06	EB-SE07-SE-A-081	NX36B	NX36B	11/14/08	2147
07	EB-SE07-SE-A-08	NX36BMS	NX36BMS	11/14/08	2221
08	EB-SE07-SE-A-08	NX36BMSD	NX36BMD	11/14/08	2254
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NX36 Project: EDDON BOATYARD

Cont. Calib. ID: CC1114 Date Analyzed: 11/14/08

Instrument ID: NT6 Time Analyzed: 1104

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
	12 HOUR STD	136173		6.96		464989		9.02		260727		11.86	
	UPPER LIMIT	272346		7.46		929978		9.52		521454		12.36	
	LOWER LIMIT	68086		6.46		232494		8.52		130364		11.36	
	CLIENT SAMP. NO.												
01	NX36MBS1					428503		9.02		233438		11.85	
02	NX36LCSS1					433760		9.01		236473		11.85	
03	NX36LCSDS1					430705		9.01		235256		11.85	
04	EB-SE06-SE-A					428435		9.01		242429		11.85	
05	EB-SE07-SE-A					431826		9.01		239172		11.85	
06	EB-SE07-SE-A					401776		9.02		215720		11.85	
07	EB-SE07-SE-A					447789		9.01		256257		11.85	
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NX36 Project: EDDON BOATYARD

Cont. Calib. ID: CC1114 Date Analyzed: 11/14/08

Instrument ID: NT6 Time Analyzed: 1104

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6 AREA	#	RT	#
	12 HOUR STD	386739		14.20		448578		18.47		622088		19.72	
	UPPER LIMIT	773478		14.70		897156		18.97		1244176		20.22	
	LOWER LIMIT	193370		13.70		224289		17.97		311044		19.22	
	CLIENT SAMP. NO.												
01	NX36MBS1	353136		14.19		433571		18.45					
02	NX36LCSS1	359550		14.20		429154		18.46					
03	NX36LCSDS1	359653		14.19		425964		18.46					
04	EB-SE06-SE-A	384850		14.19		447608		18.46					
05	EB-SE07-SE-A	382773		14.19		465261		18.46					
06	EB-SE07-SE-A	357040		14.19		475878		18.46					
07	EB-SE07-SE-A	411958		14.19		474248		18.46					
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 = Di-n-octylphthalate-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-2

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NX36 Project: EDDON BOATYARD

Cont. Calib. ID: CC1114 Date Analyzed: 11/14/08

Instrument ID: NT6 Time Analyzed: 1104

		IS7(PRY) AREA	#	RT	#	AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	467835		20.59									
	UPPER LIMIT	935670		21.09									
	LOWER LIMIT	233918		20.09									
	CLIENT SAMP. NO.												
01	NX36MBS1	403423		20.58									
02	NX36LCSS1	406577		20.59									
03	NX36LCSDS1	394979		20.59									
04	EB-SE06-SE-A	418817		20.59									
05	EB-SE07-SE-A	425442		20.59									
06	EB-SE07-SE-A	389369		20.59									
07	EB-SE07-SE-A	396484		20.59									
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS7 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

SVOA Analysis
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NX36

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PNAs by SW8270D GC/MS
Page 1 of 1

Sample ID: EB-SE06-SE-A-081030
SAMPLE

Lab Sample ID: NX36A
LIMS ID: 08-29554
Matrix: Sediment
Data Release Authorized:
Reported: 11/17/08

QC Report No: NX36-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/30/08
Date Received: 10/30/08

Date Extracted: 11/10/08
Date Analyzed: 11/14/08 21:13
Instrument/Analyst: NT6/LJR
GPC Cleanup: No
Alumina: No
Silica Gel: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 24.6%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
90-12-0	1-Methylnaphthalene	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
86-73-7	Fluorene	20	< 20 U
85-01-8	**Phenanthrene**	**20**	**17 J**
120-12-7	**Anthracene**	**20**	**17 J**
206-44-0	**Fluoranthene**	**20**	**59**
129-00-0	**Pyrene**	**20**	**62**
56-55-3	**Benzo(a)anthracene**	**20**	**26**
218-01-9	**Chrysene**	**20**	**59**
205-99-2	**Benzo(b)fluoranthene**	**20**	**37**
207-08-9	**Benzo(k)fluoranthene**	**20**	**62**
50-32-8	**Benzo(a)pyrene**	**20**	**30**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**20**	**18 J**
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	**Benzo(g,h,i)perylene**	**20**	**29**
132-64-9	Dibenzofuran	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	76.8%
2-Fluorobiphenyl	58.8%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20081114.b/nx36a.d
Lab Smp Id: NX36A
Client Smp ID: EB-SE06-SE-A-081030
Inj Date : 14-NOV-2008 21:13
Operator : LJR/VTS
Inst ID: nt6.i
Smp Info : NX36A
Misc Info : 08-29554
Comment : 1ul Injection
Method : /chem1/nt6.i/20081114.b/SW846.m
Meth Date : 17-Nov-2008 10:39 jeff
Quant Type: ISTD
Cal Date : 10-NOV-2008 14:59
Cal File: 0101110.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: pna.sub
Target Version: 3.50

LJR 11/17/08

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	34.10000	Weight of sample extracted (g)
M	24.60000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
* 27 Naphthalene-d8	136	9.011	9.020	(1.000)	428435	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	141	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	10.827	10.837	(0.914)	245250	14.7263	286.4
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	11.847	11.857	(1.000)	242429	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.193	14.197	(1.000)	384850	20.0000	
60 Phenanthrene	178	14.225	14.234	(1.002)	21096	0.88460	17.20
61 Anthracene	178	14.294	14.304	(1.007)	21438	0.86325	16.79
64 Fluoranthene	202	16.137	16.147	(1.137)	78530	3.03383	59.00
65 Pyrene	202	16.479	16.483	(0.893)	86956	3.20848	62.39

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$ 66 Terphenyl-d14	244	16.848	16.852	(0.913)	357234	19.1977	373.3
68 Benzo(a)anthracene	228	18.429	18.438	(0.999)	37468	1.33696	26.00
* 69 Chrysene-d12	240	18.456	18.465	(1.000)	447608	20.0000	
71 Chrysene	228	18.493	18.503	(1.002)	82730	3.03596	59.04
74 Benzo(b)fluoranthene	252	20.069	20.073	(0.975)	50536	1.88463	36.65(M)
75 Benzo(k)fluoranthene	252	20.069	20.111	(0.975)	85617	3.17501	61.74(M)
76 Benzo(a)pyrene	252	20.502	20.511	(0.996)	37271	1.54662	30.08(M)
* 77 Perylene-d12	264	20.587	20.586	(1.000)	418817	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	21.923	21.932	(1.065)	28609	0.92773	18.04(M)
79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
80 Benzo(g,h,i)perylene	276	22.211	22.226	(1.079)	39776	1.50415	29.25(M)

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: nx36a.d
Lab Smp Id: NX36A
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20081114.b/SW846.m
Misc Info: 08-29554

Calibration Date: 14-NOV-2008
Calibration Time: 11:04
Client Smp ID: EB-SE06-SE-A-081
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	464989	232494	929978	428435	-7.86
42 Acenaphthene-d10	260727	130364	521454	242429	-7.02
59 Phenanthrene-d10	386739	193370	773478	384850	-0.49
69 Chrysene-d12	448578	224289	897156	447608	-0.22
77 Perylene-d12	467835	233918	935670	418817	-10.48

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.02	8.52	9.52	9.01	-0.11
42 Acenaphthene-d10	11.86	11.36	12.36	11.85	-0.08
59 Phenanthrene-d10	14.20	13.70	14.70	14.19	-0.03
69 Chrysene-d12	18.47	17.97	18.97	18.46	-0.05
77 Perylene-d12	20.59	20.09	21.09	20.59	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: NX36A
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pna.sub
Method File: /chem1/nt6.i/20081114.b/SW846.m
Misc Info: 08-29554

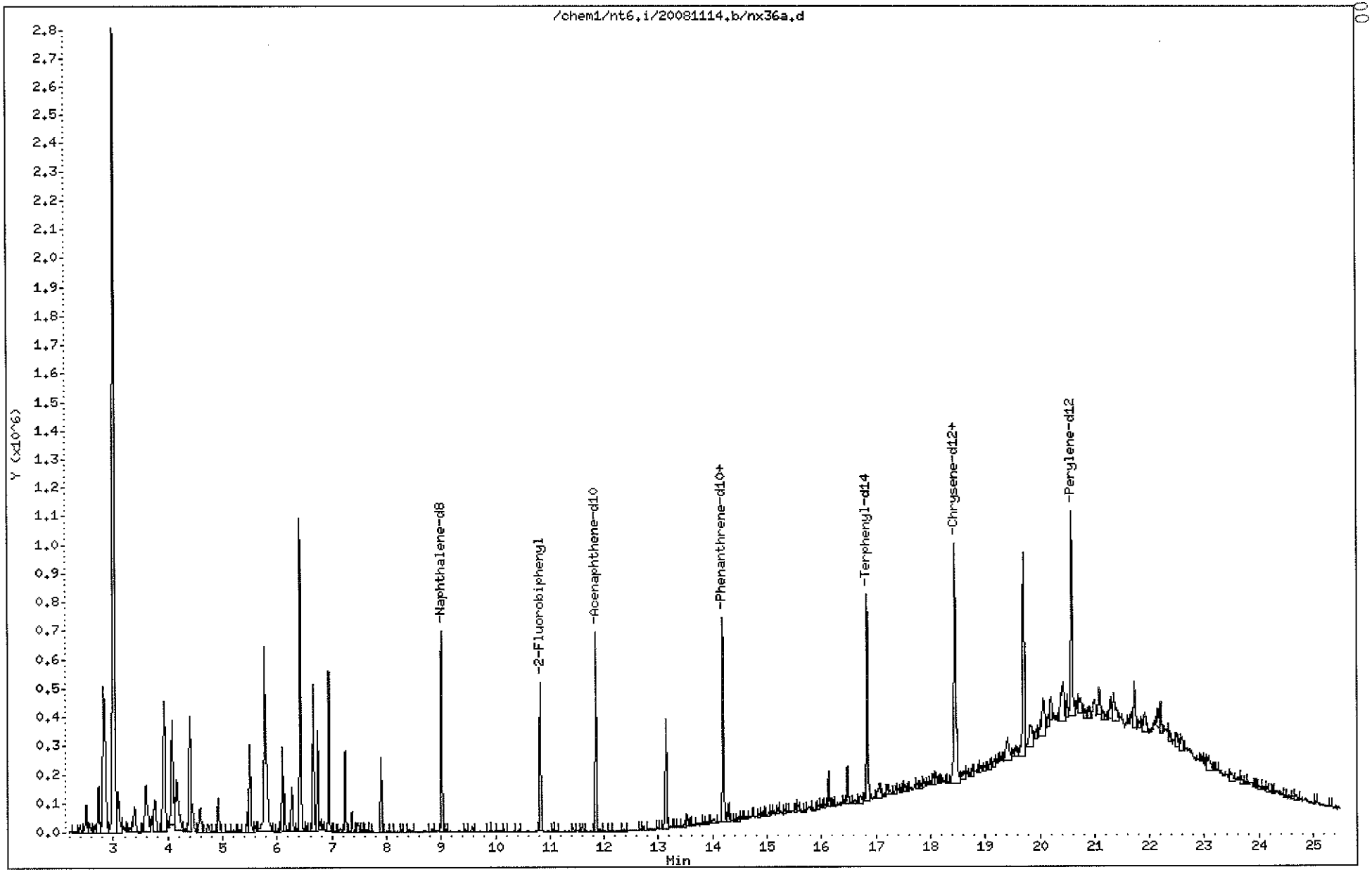
Client SDG: NX36
Fraction: SV
Client Smp ID: EB-SE06-SE-A-081030
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	486.2	286.4	58.91	30-160
$ 66 Terphenyl-d14	486.2	373.3	76.79	30-123

Data File: /chem1/nt6.i/20081114.b/nx36a.d
Date : 14-NOV-2008 21:13
Client ID: EB-SE06-SE-A-081030
Sample Info: NX36A
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32

0049



Data File: /chem1/nt6.i/20081114.b/nx36a.d

Date : 14-NOV-2008 21:13

Client ID: EB-SE06-SE-A-081030

Instrument: nt6.i

Sample Info: NX36A

Volume Injected (uL): 1.0

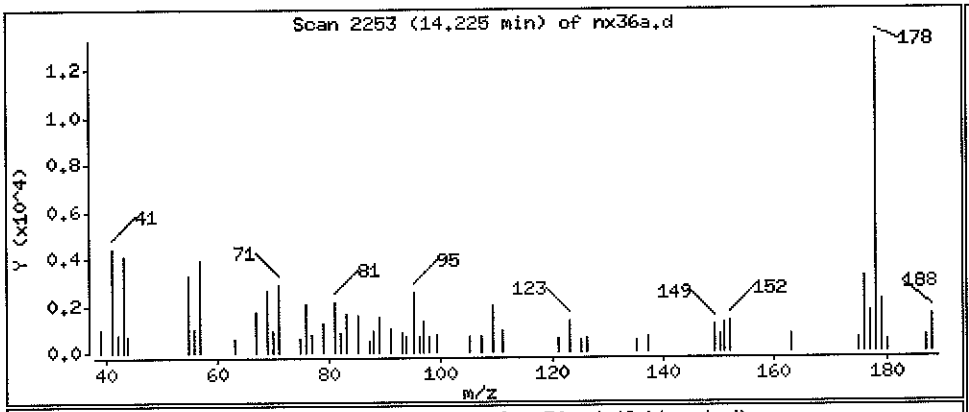
Operator: LJR/VTS

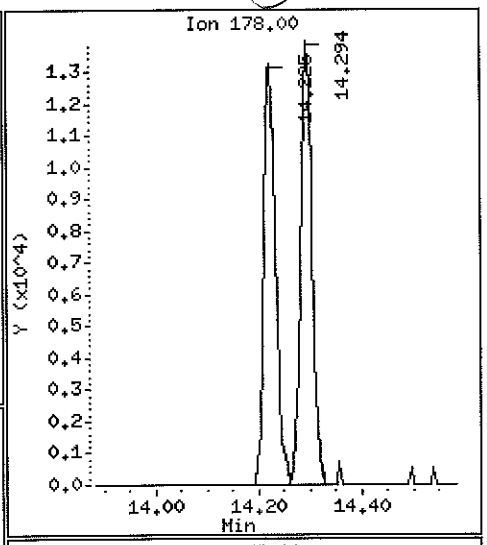
Column phase: ZB-5

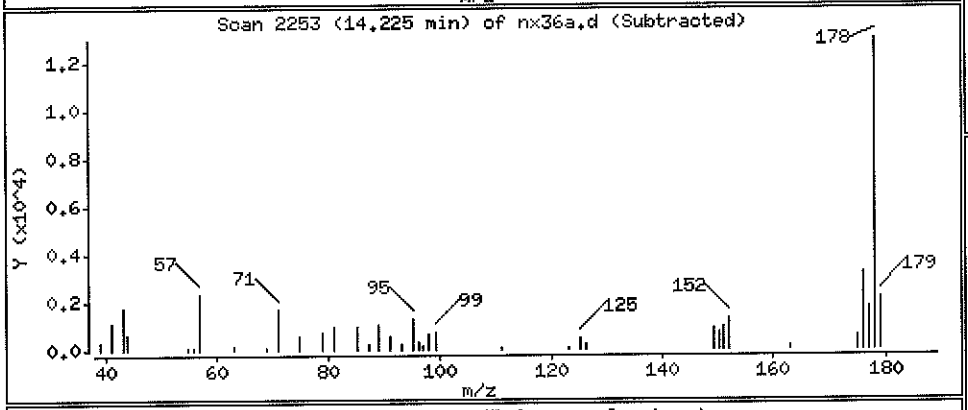
Column diameter: 0.32

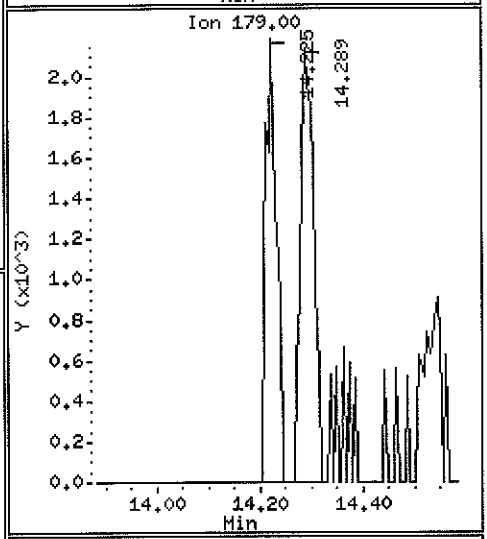
60 Phenanthrene

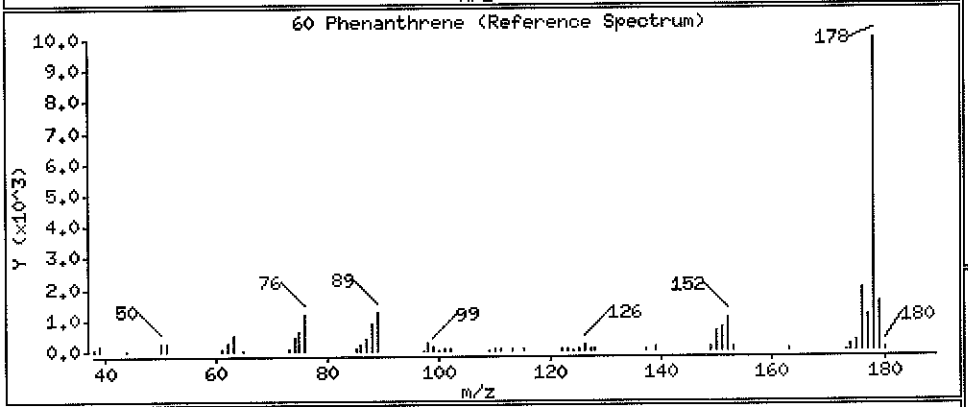
Concentration: 17.20 ug/kg

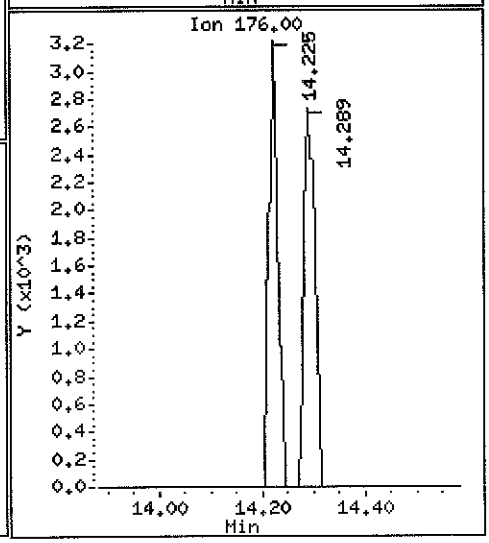


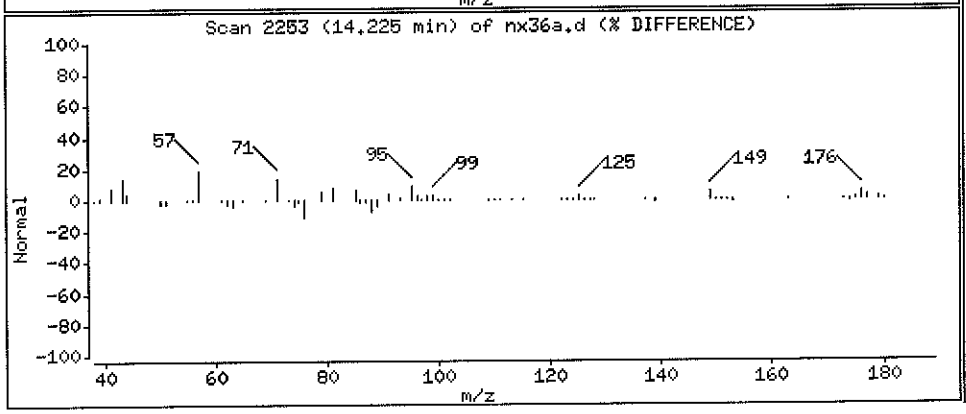












Data File: /chem1/nt6.i/20081114.b/nx36a.d

Date : 14-NOV-2008 21:13

Client ID: EB-SE06-SE-A-081030

Instrument: nt6.i

Sample Info: NX36A

Volume Injected (uL): 1.0

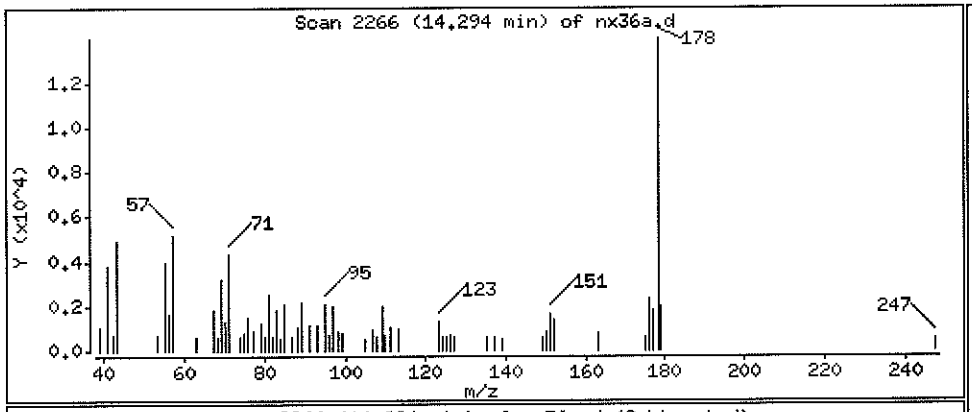
Operator: LJR/VTS

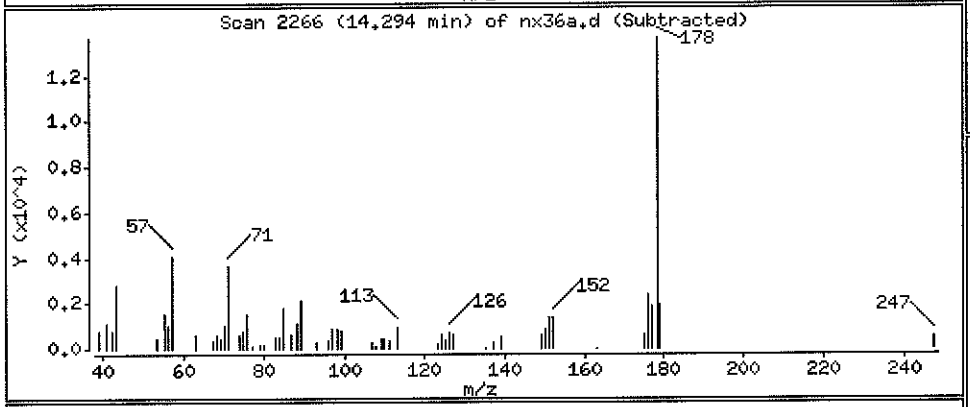
Column phase: ZB-5

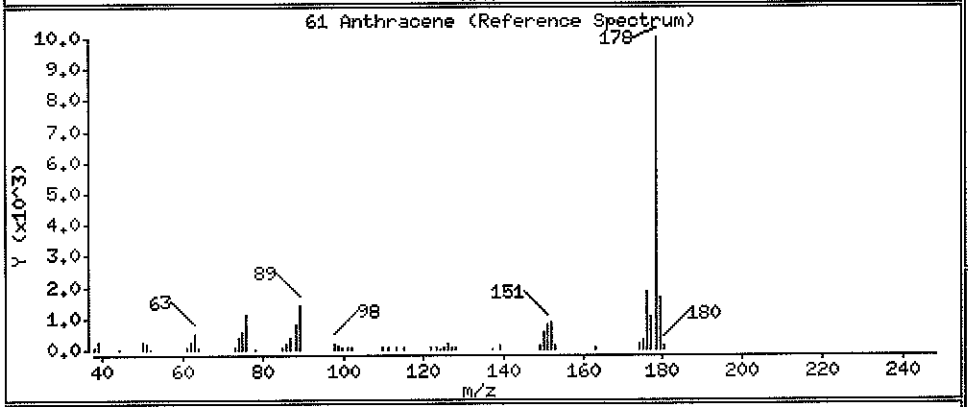
Column diameter: 0.32

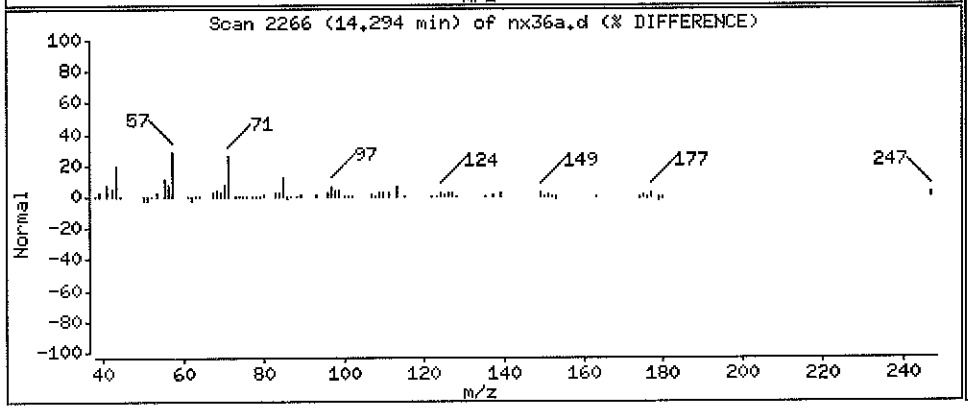
61 Anthracene

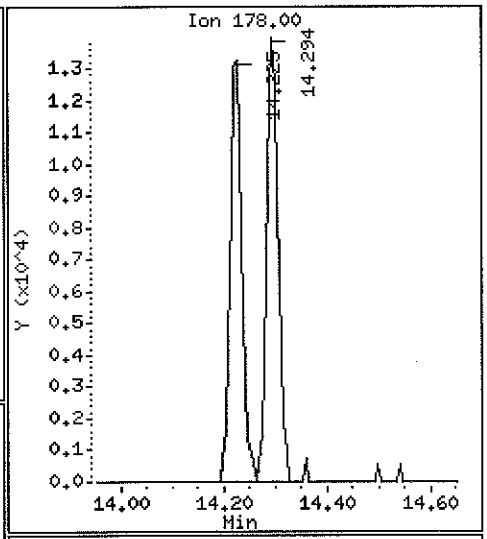
Concentration: 16.79 ug/kg

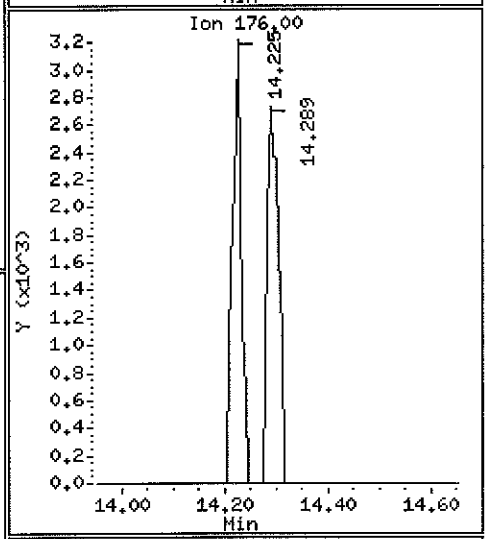


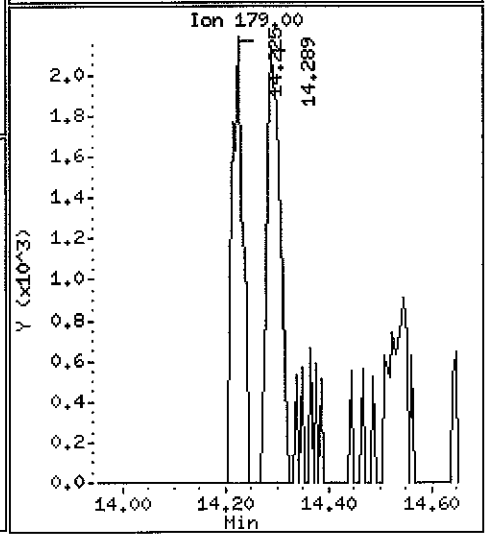












Data File: /chem1/nt6.i/20081114.b/nx36a.d

Date : 14-NOV-2008 21:13

Client ID: EB-SE06-SE-A-081030

Instrument: nt6.i

Sample Info: NX36A

Volume Injected (uL): 1.0

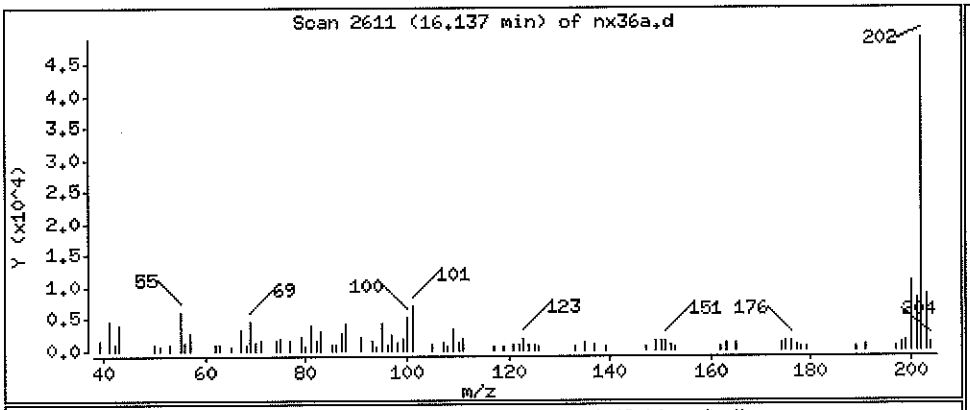
Operator: LJR/VTS

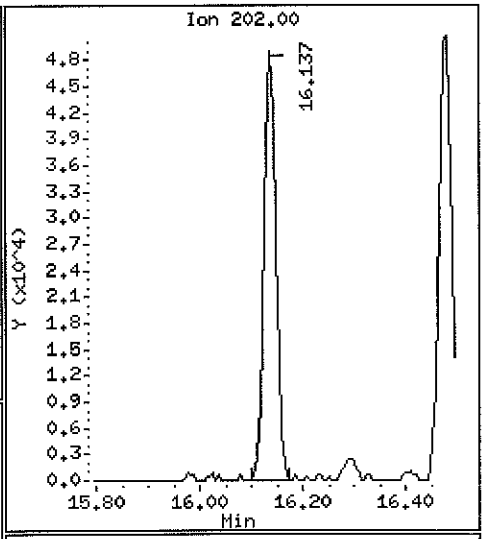
Column phase: ZB-5

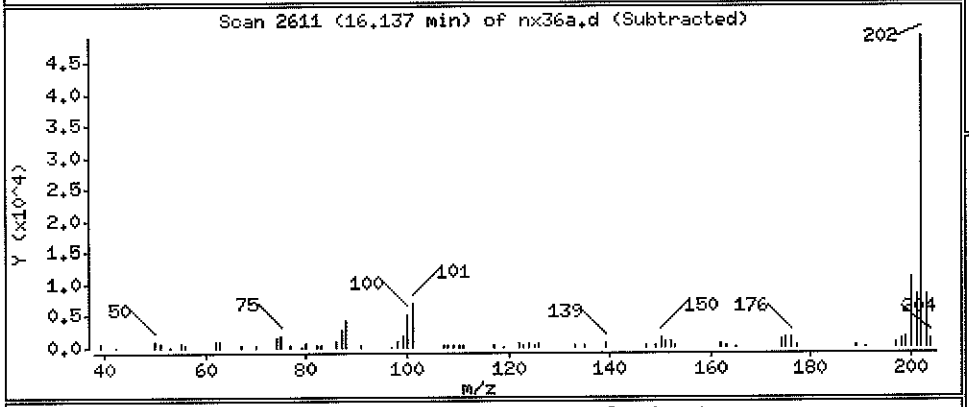
Column diameter: 0.32

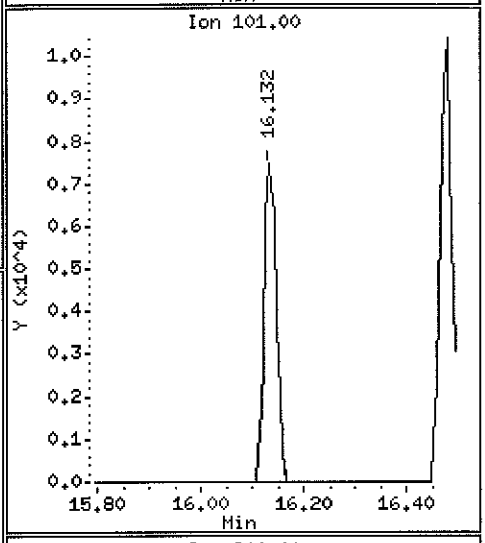
64 Fluoranthene

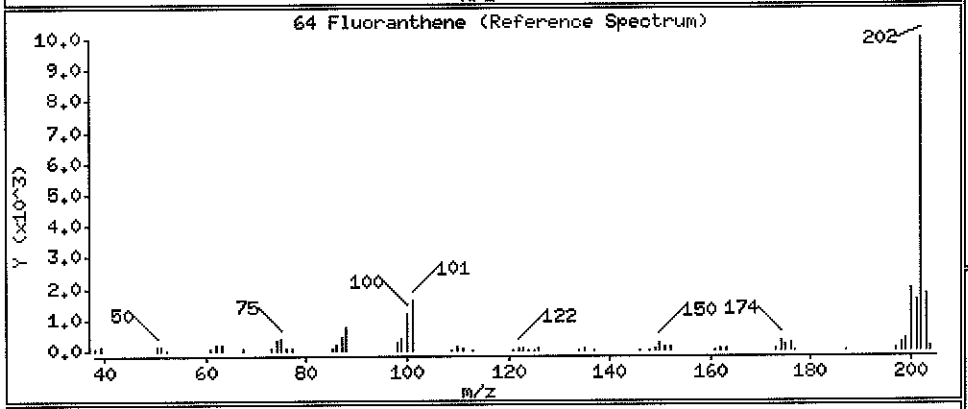
Concentration: 59.00 ug/kg

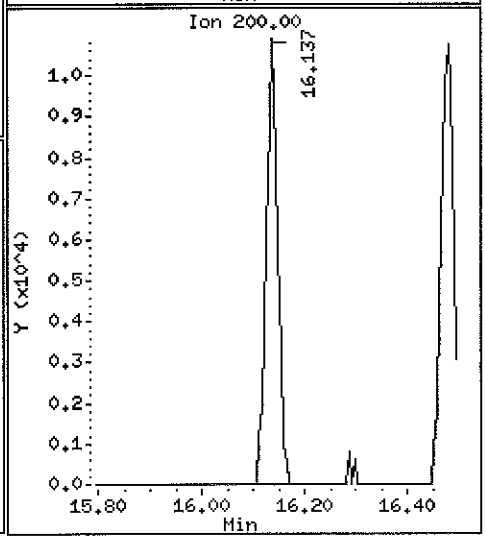


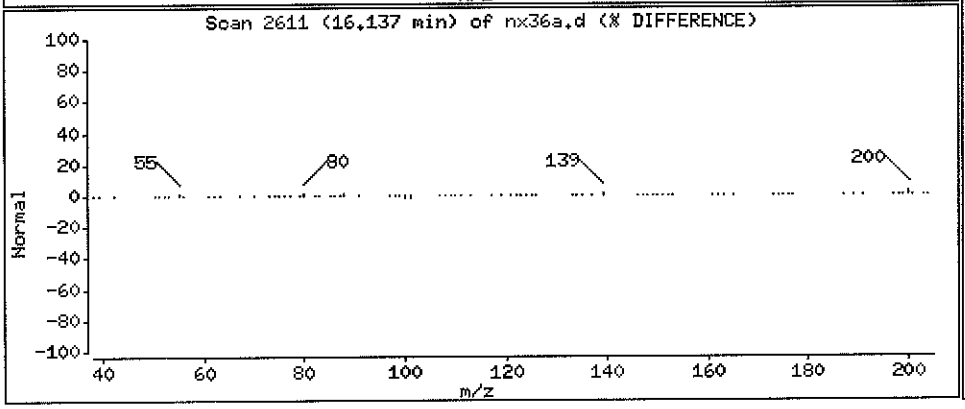












Data File: /chem1/nt6.i/20081114.b/nx36a.d

Date : 14-NOV-2008 21:13

Client ID: EB-SE06-SE-A-081030

Instrument: nt6.i

Sample Info: NX36A

Volume Injected (uL): 1.0

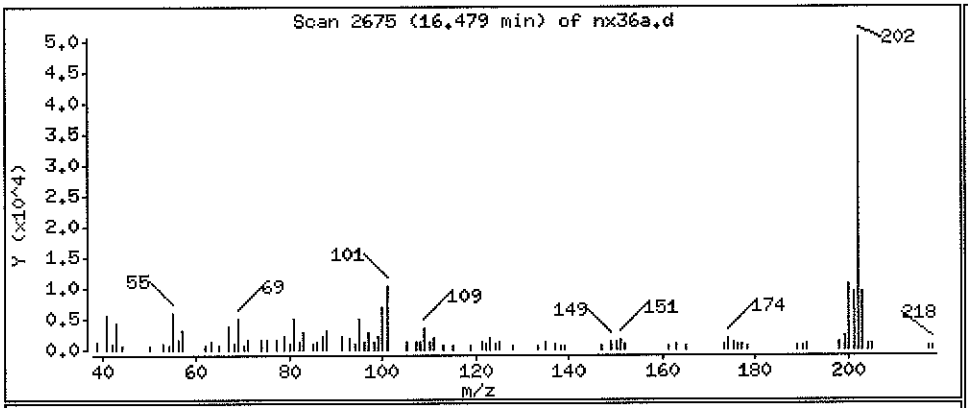
Operator: LJR/VTS

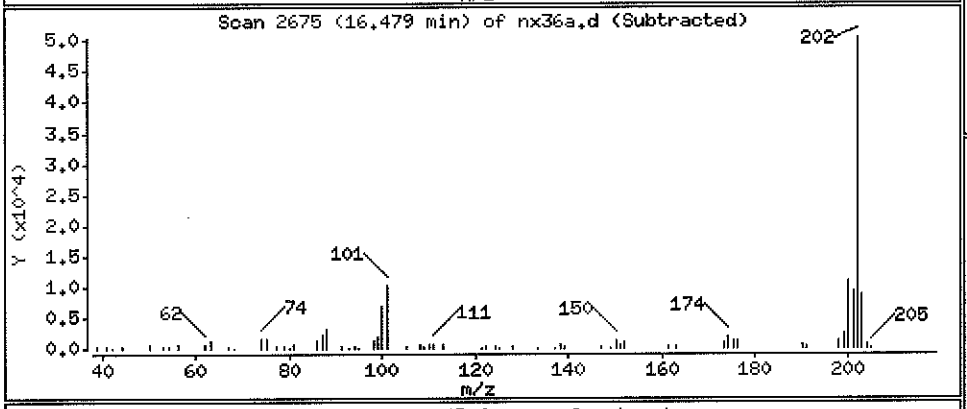
Column phase: ZB-5

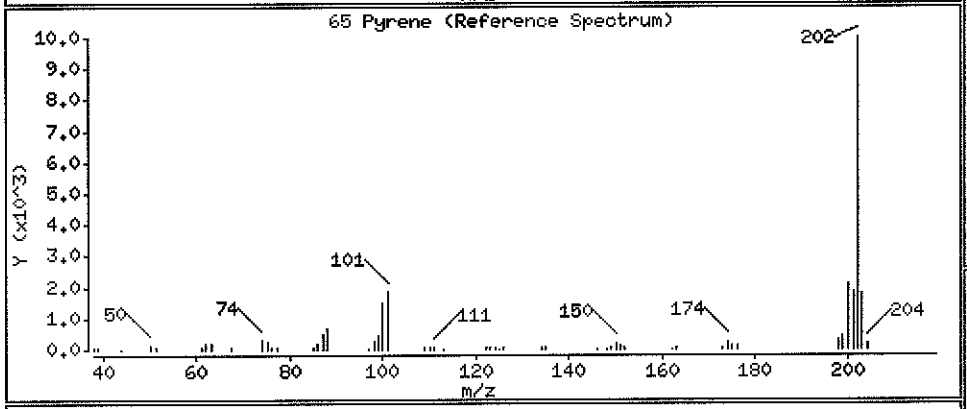
Column diameter: 0.32

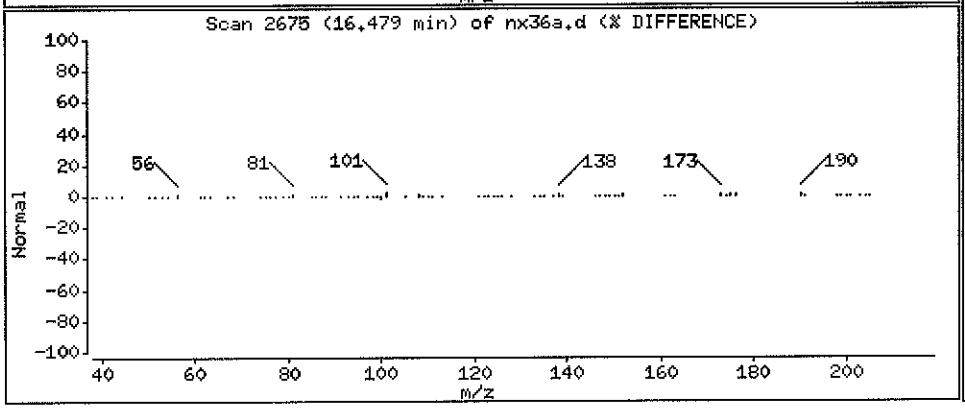
65 Pyrene

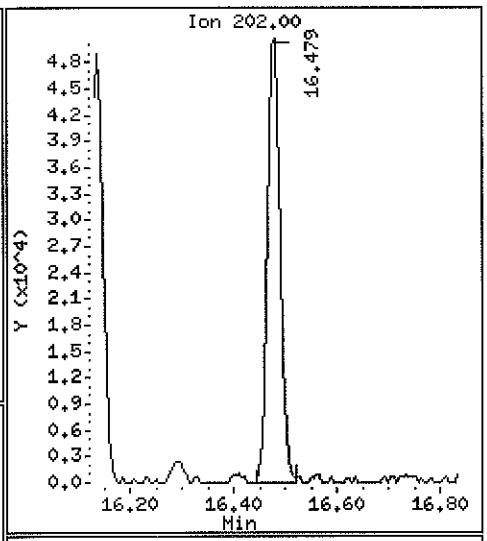
Concentration: 62.39 ug/kg

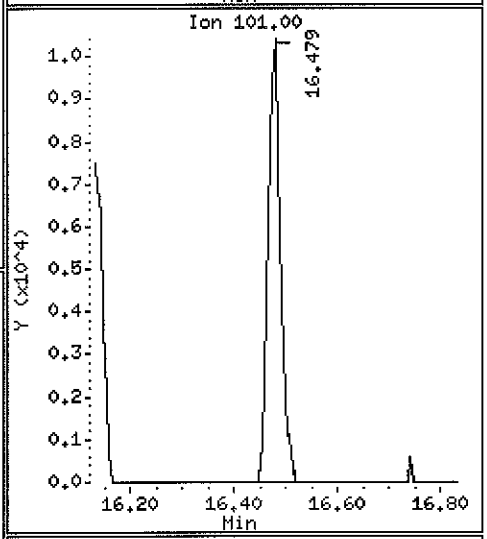


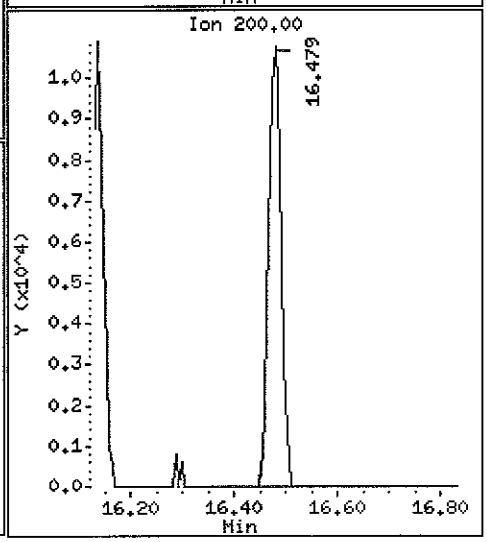












Data File: /chem1/nt6.i/20081114.b/nx36a.d

Date : 14-NOV-2008 21:13

Client ID: EB-SE06-SE-A-081030

Instrument: nt6.i

Sample Info: NX36A

Volume Injected (uL): 1.0

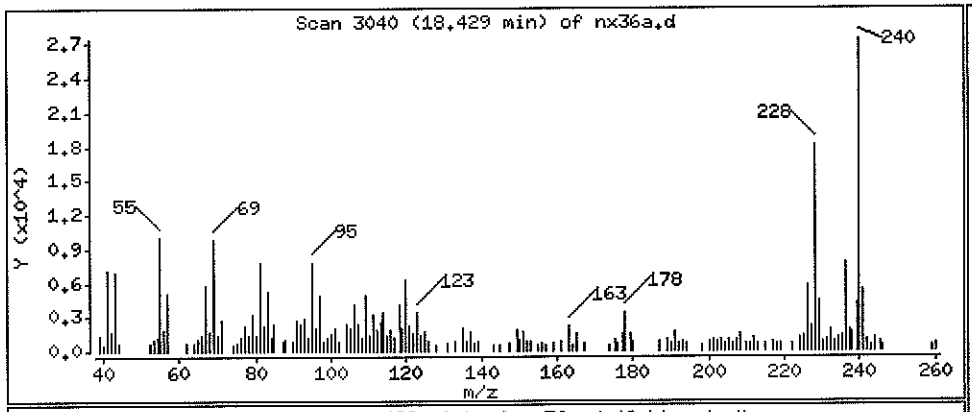
Operator: LJR/VTS

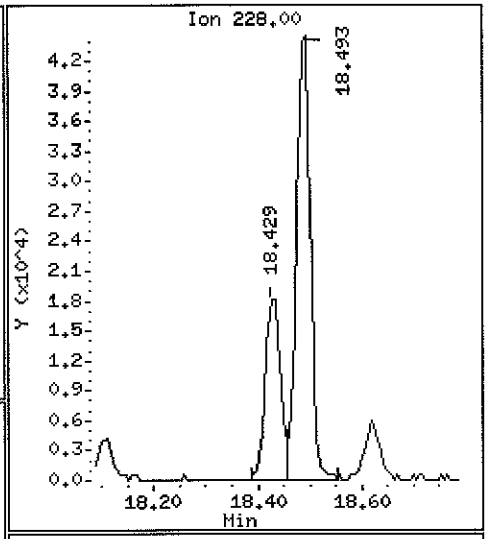
Column phase: ZB-5

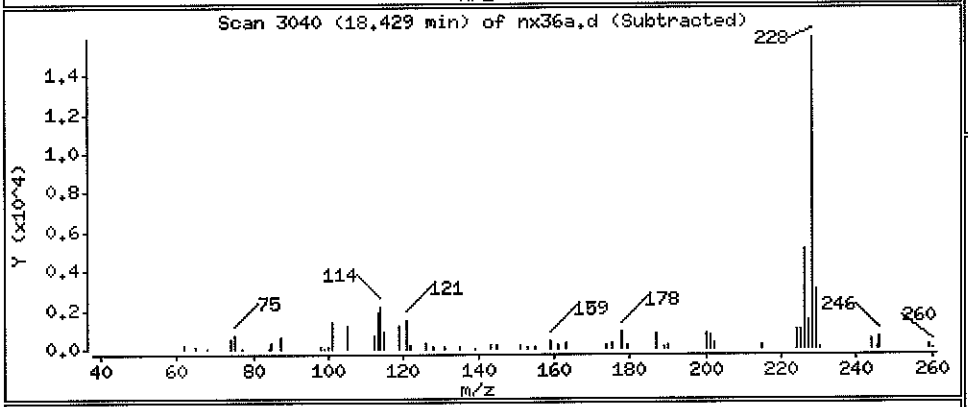
Column diameter: 0.32

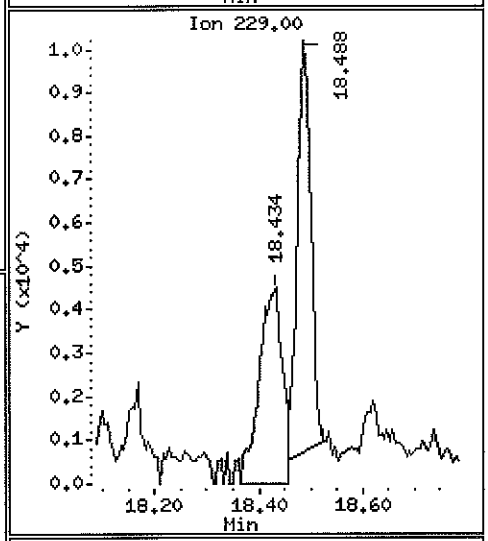
68 Benzo(a)anthracene

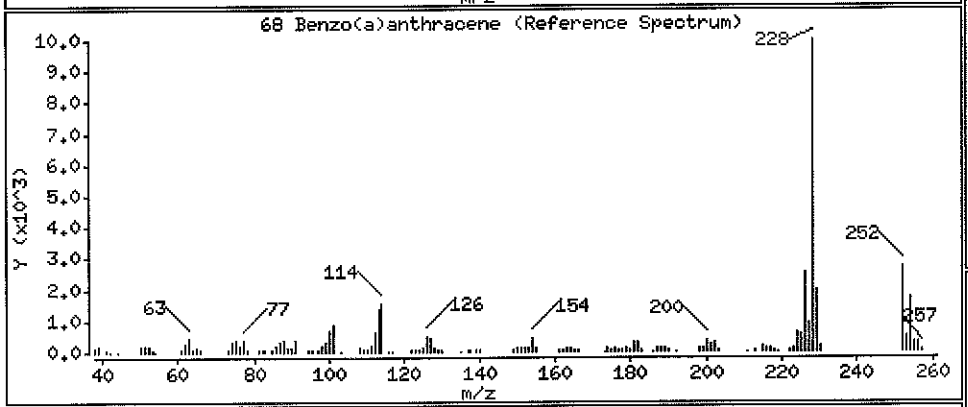
Concentration: 26.00 ug/kg

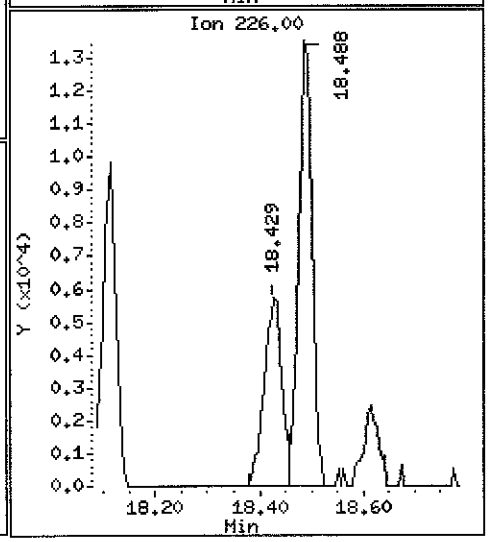


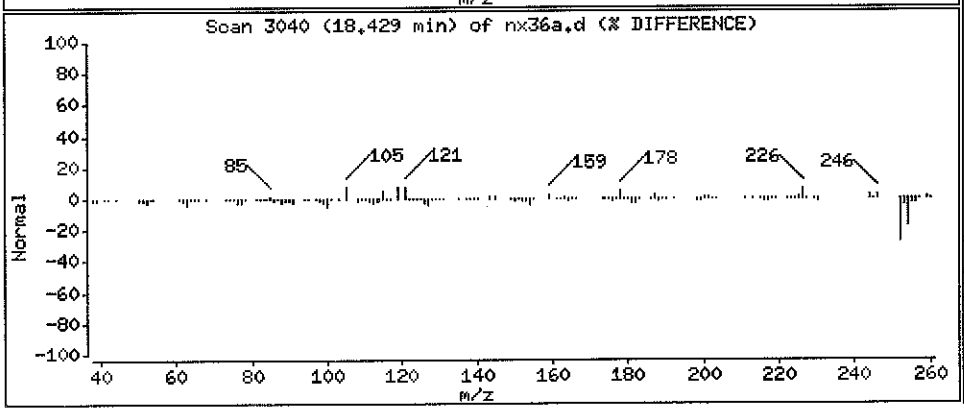












Data File: /chem1/nt6.i/20081114.b/nx36a.d

Date : 14-NOV-2008 21:13

Client ID: EB-SE06-SE-A-081030

Instrument: nt6.i

Sample Info: NX36A

Volume Injected (uL): 1.0

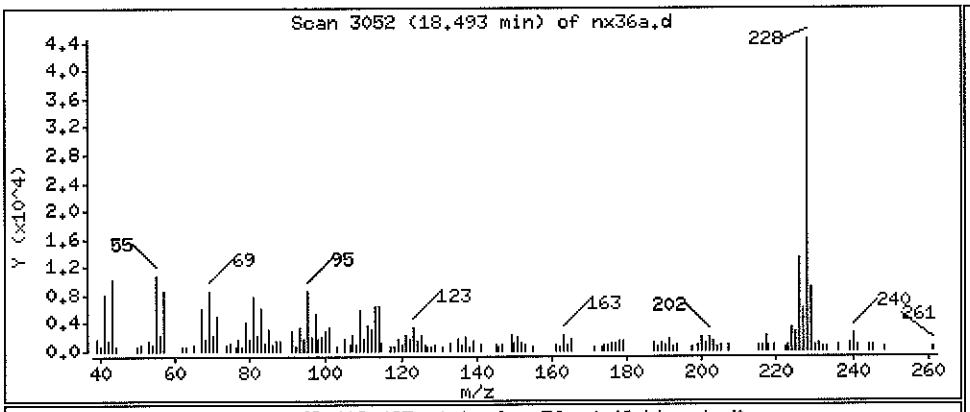
Operator: LJR/VTS

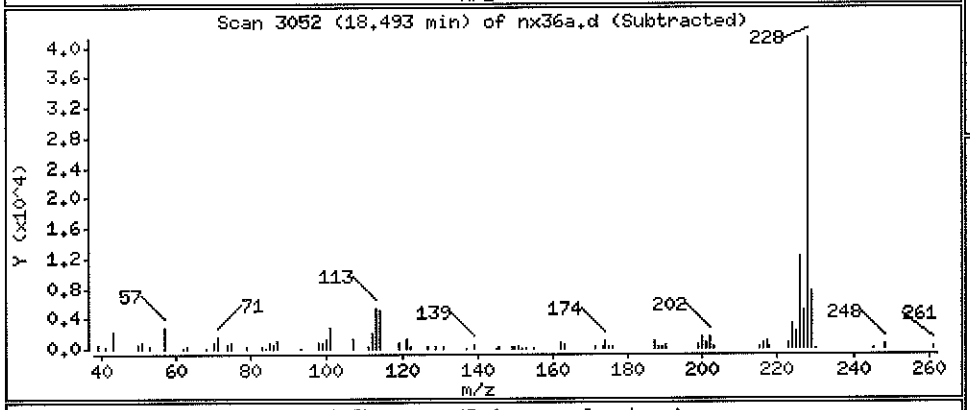
Column phase: ZB-5

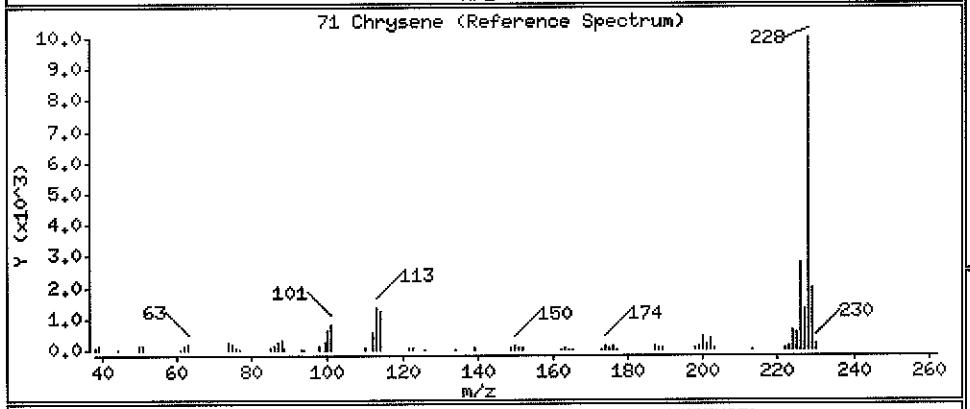
Column diameter: 0.32

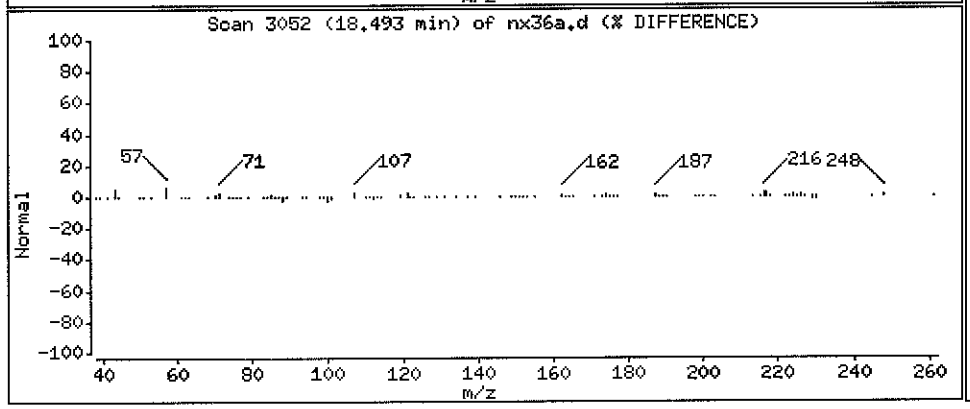
71 Chrysene

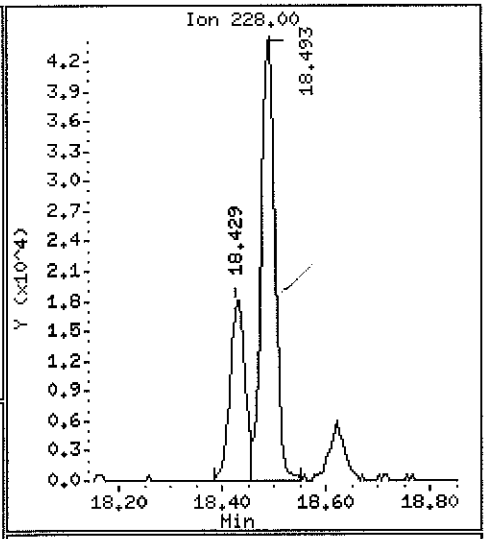
Concentration: 59.04 ug/kg

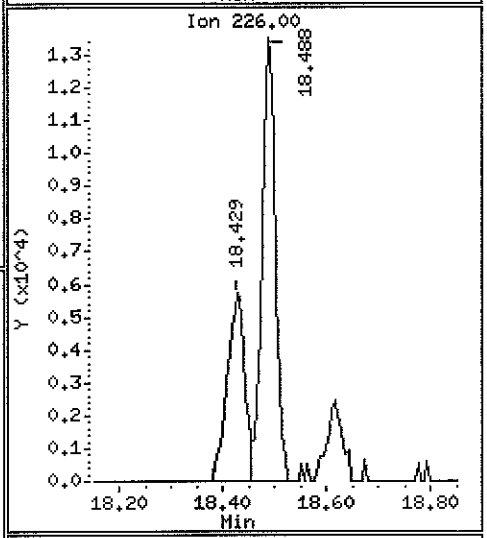


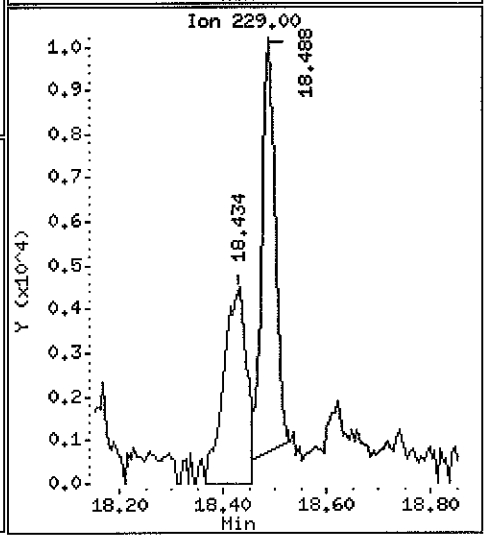












Data File: /chem1/nt6.i/20081114.b/nx36a.d

Date : 14-NOV-2008 21:13

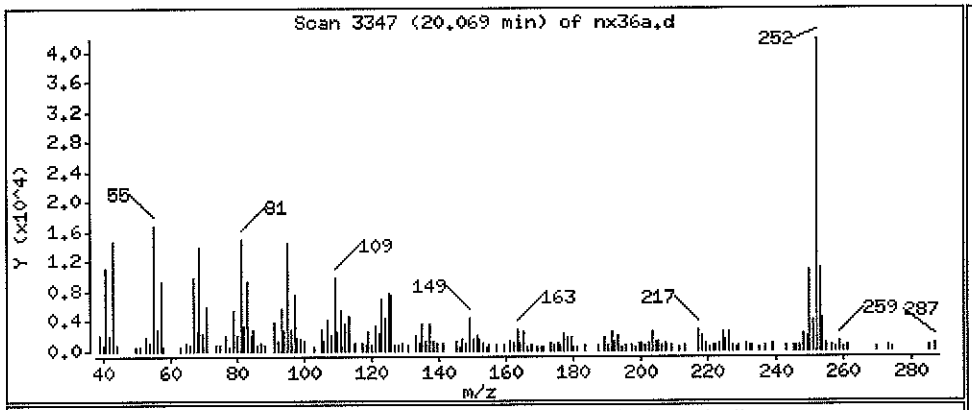
Client ID: EB-SE06-SE-A-081030 Instrument: nt6.i

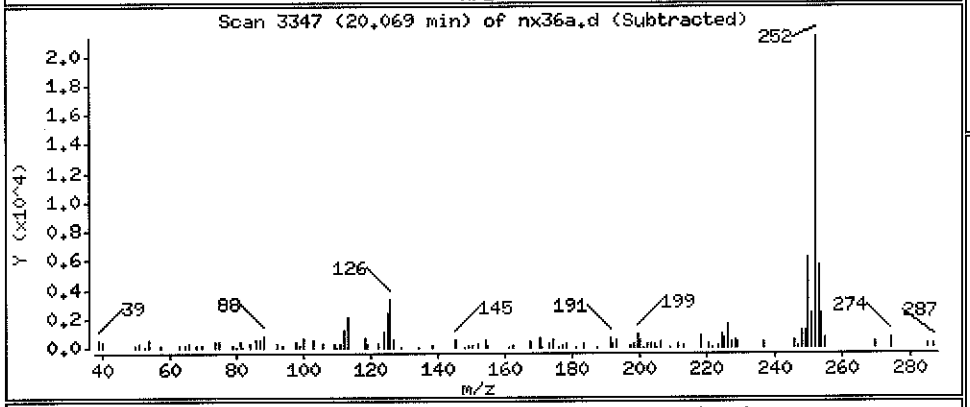
Sample Info: NX36A

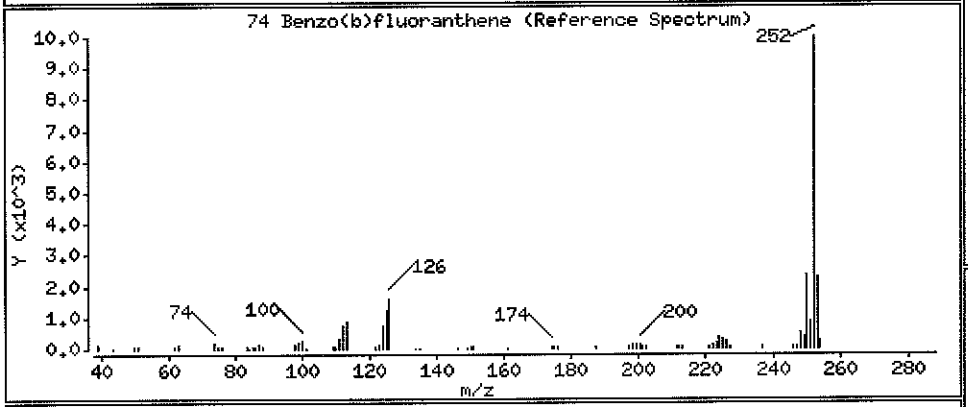
Volume Injected (uL): 1.0 Operator: LJR/VTS

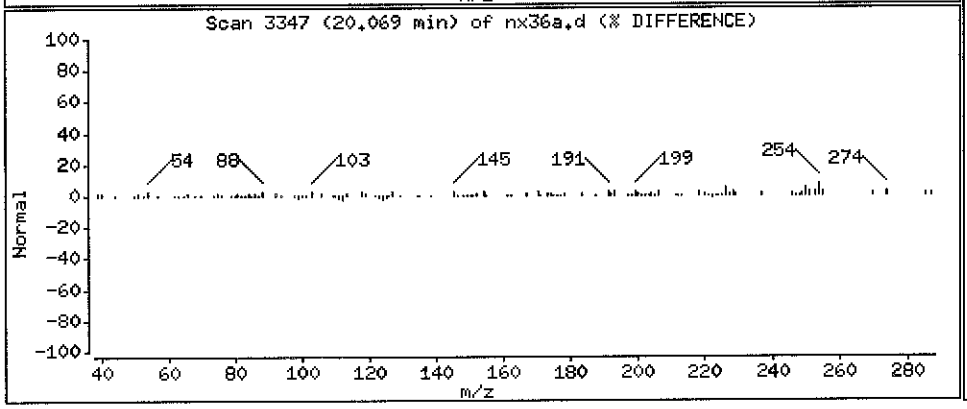
Column phase: ZB-5 Column diameter: 0.32

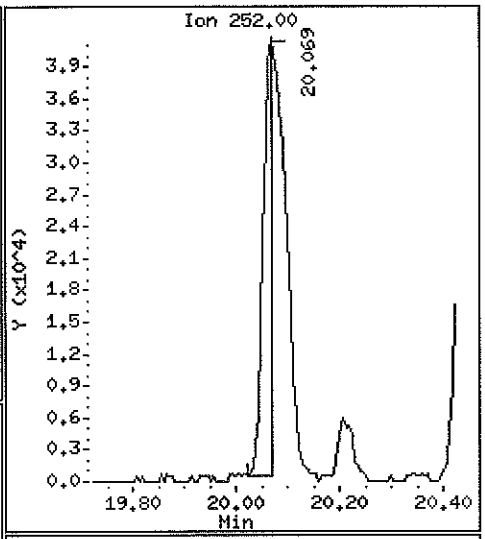
74 Benzo(b)fluoranthene Concentration: 36.65 ug/kg

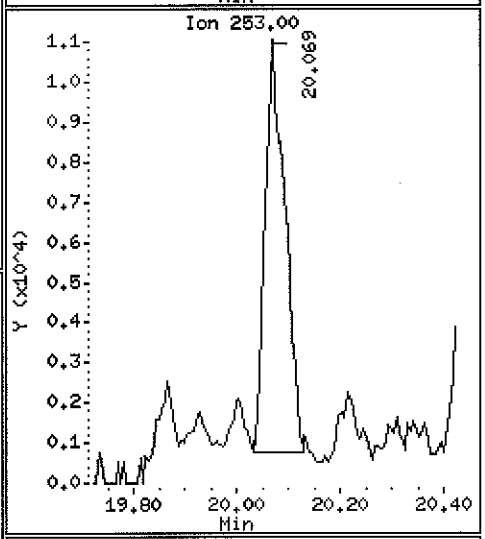


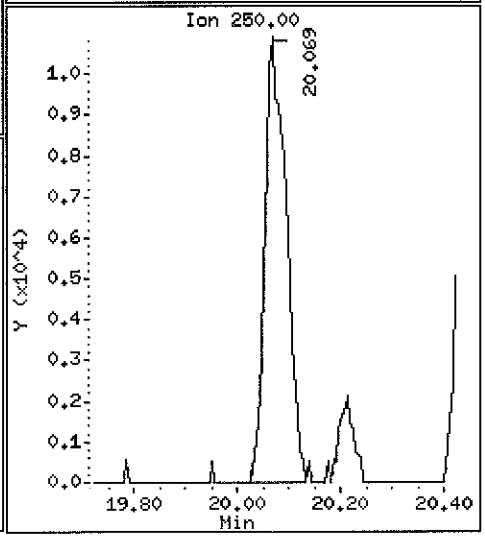












Data File: /chem1/nt6.i/20081114.b/nx36a.d

Date : 14-NOV-2008 21:13

Client ID: EB-SE06-SE-A-081030

Instrument: nt6.i

Sample Info: NX36A

Volume Injected (uL): 1.0

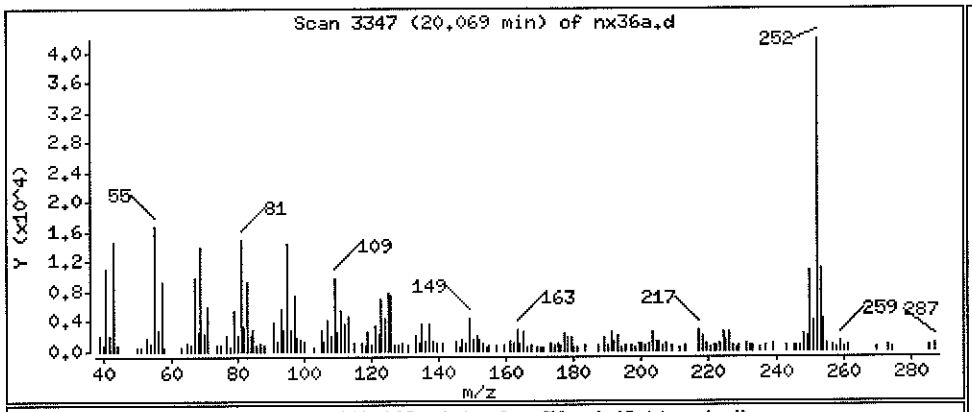
Operator: LJR/VTS

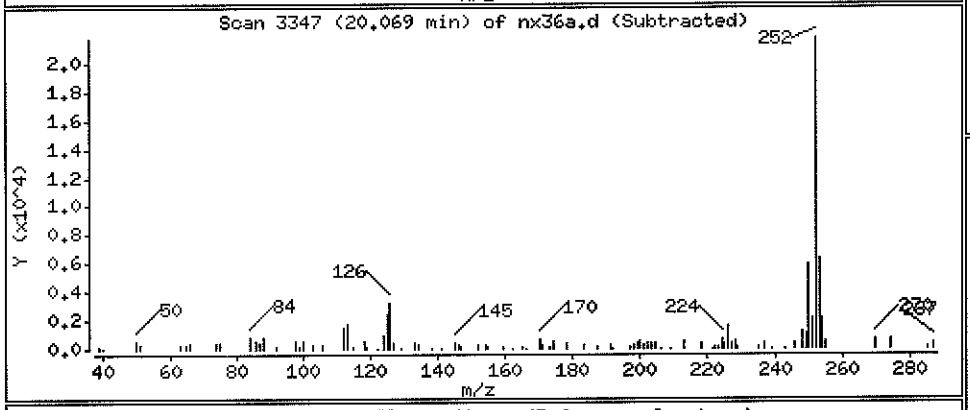
Column phase: ZB-5

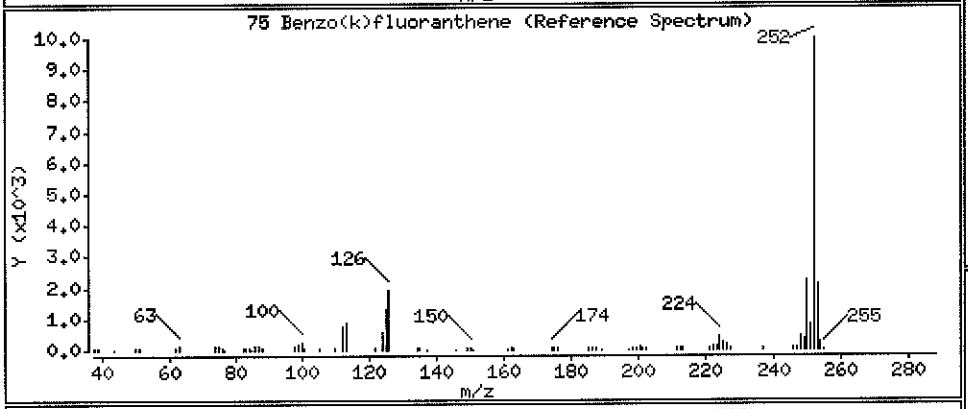
Column diameter: 0.32

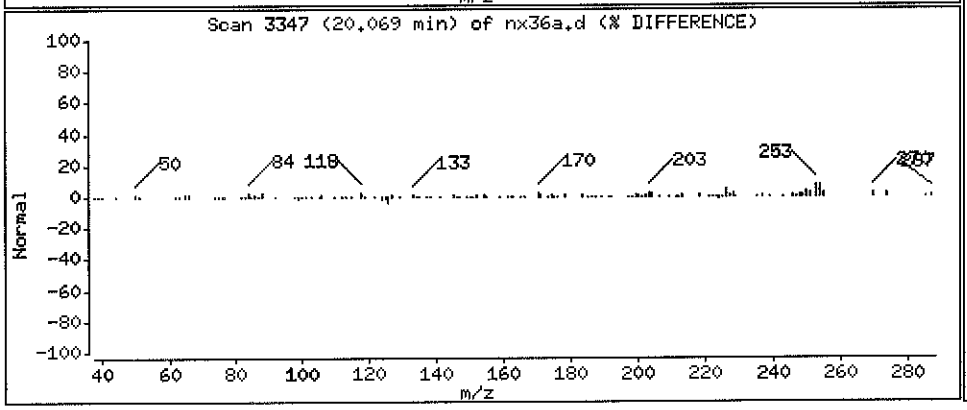
75 Benzo(k)fluoranthene

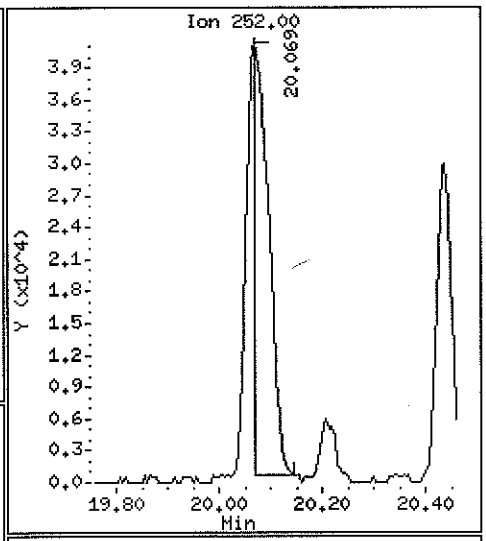
Concentration: 61.74 ug/kg

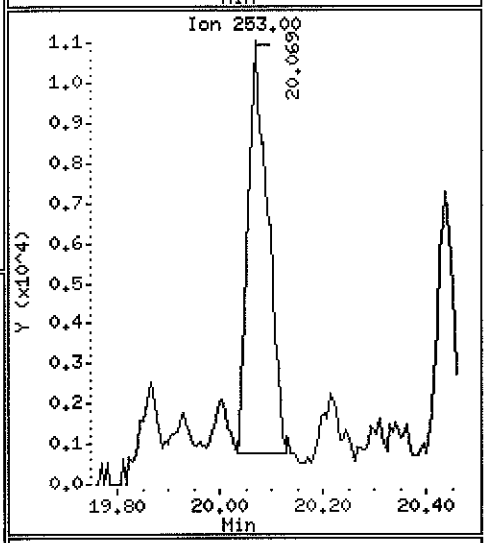


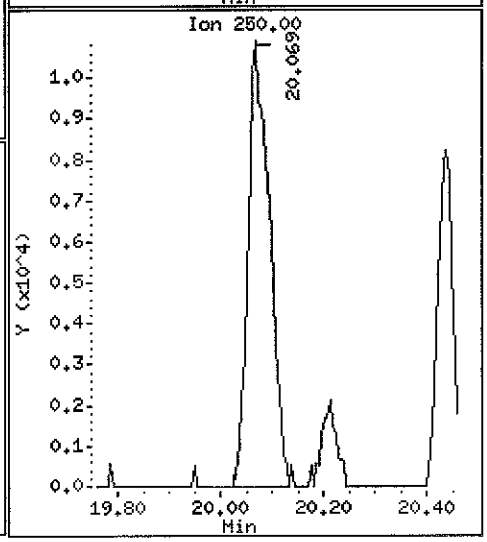












Data File: /chem1/nt6.i/20081114.b/nx36a.d

Date : 14-NOV-2008 21:13

Client ID: EB-SE06-SE-A-081030

Instrument: nt6.i

Sample Info: NX36A

Volume Injected (uL): 1.0

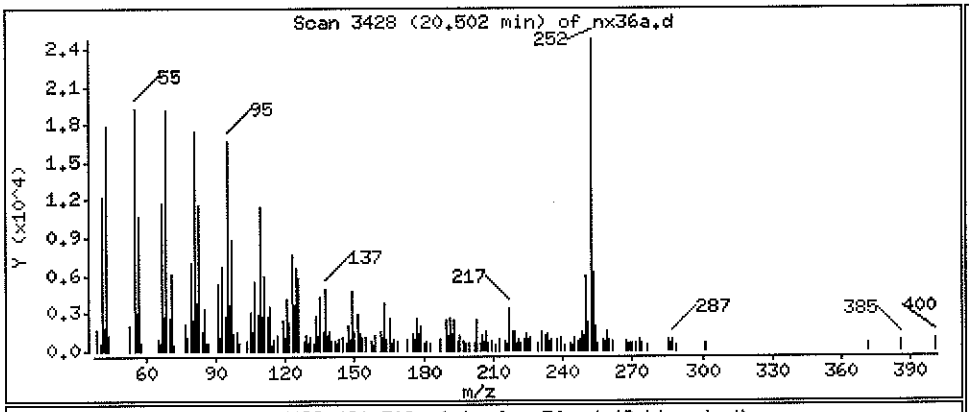
Operator: LJR/VTS

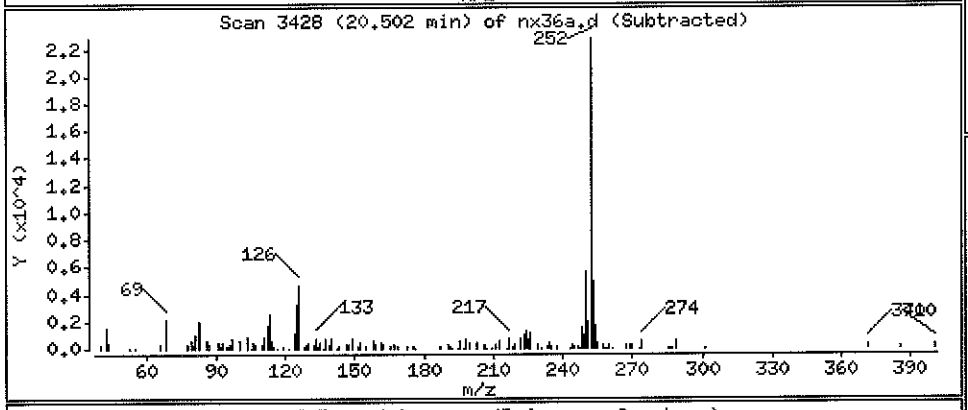
Column phase: ZB-5

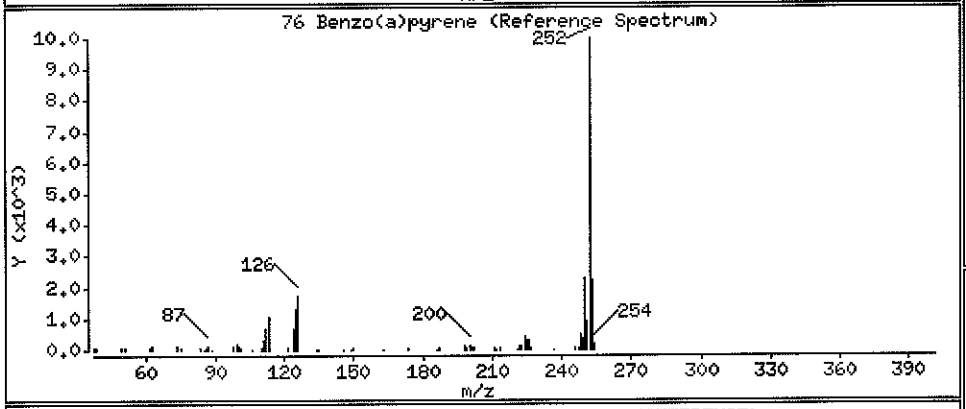
Column diameter: 0.32

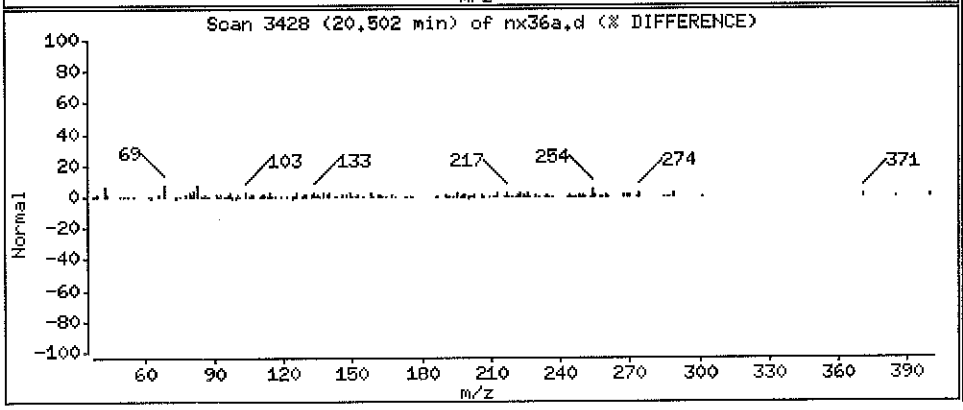
76 Benzo(a)pyrene

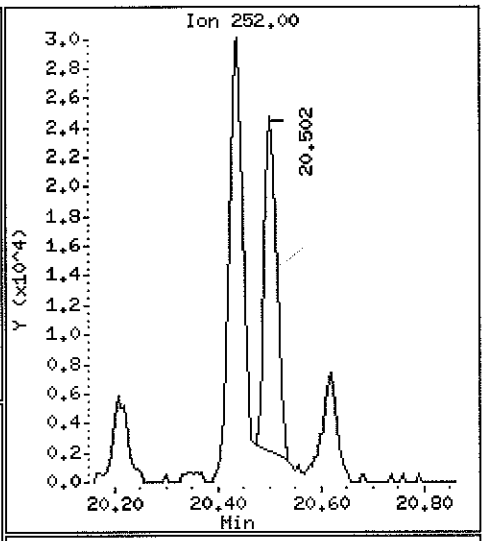
Concentration: 30.08 ug/kg

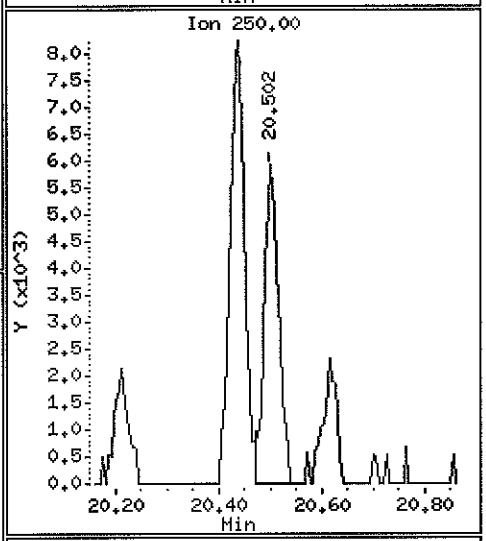


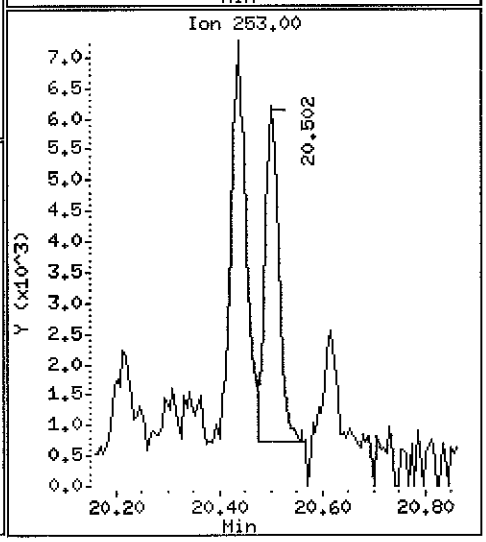












Data File: /chem1/nt6.i/20081114.b/nx36a.d

Date : 14-NOV-2008 21:13

Client ID: EB-SE06-SE-A-081030

Instrument: nt6.i

Sample Info: NX36A

Volume Injected (uL): 1.0

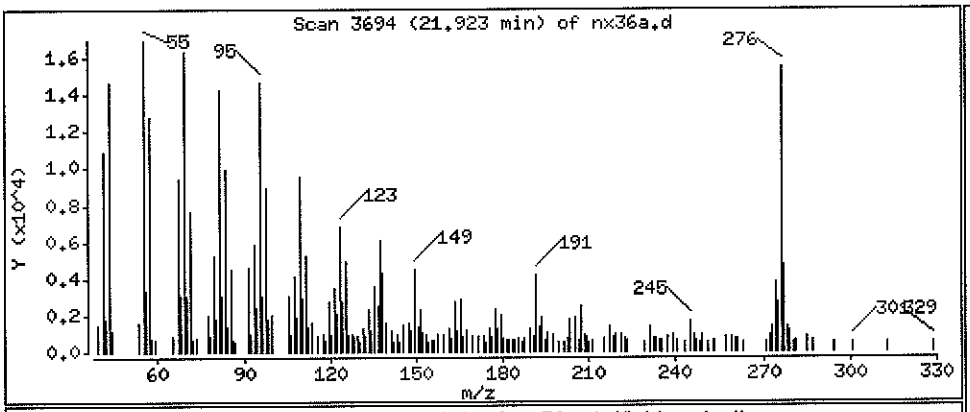
Operator: LJR/VTS

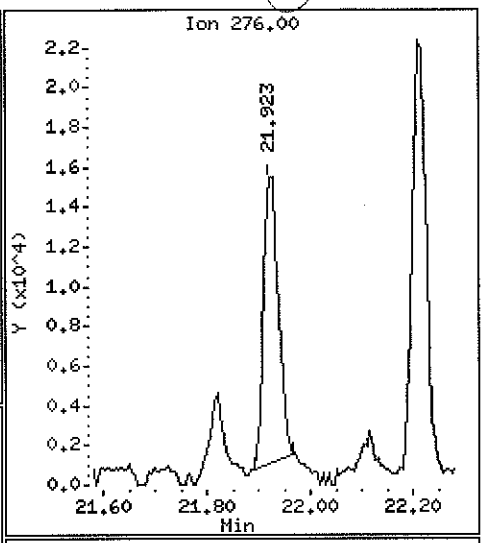
Column phase: ZB-5

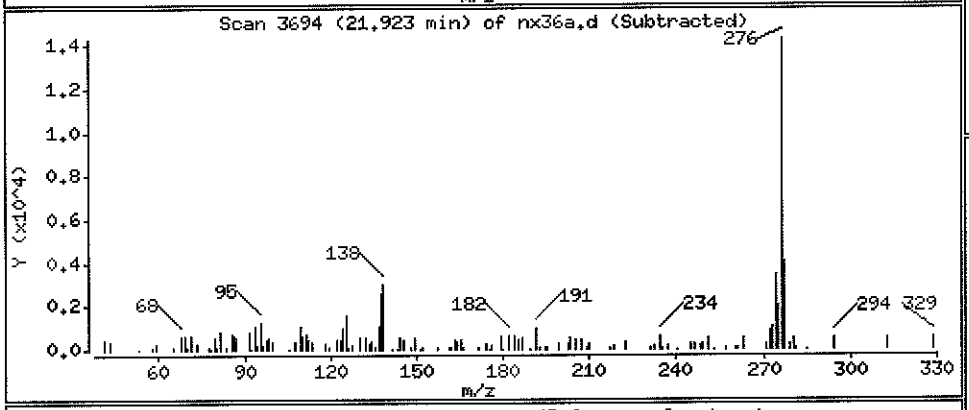
Column diameter: 0.32

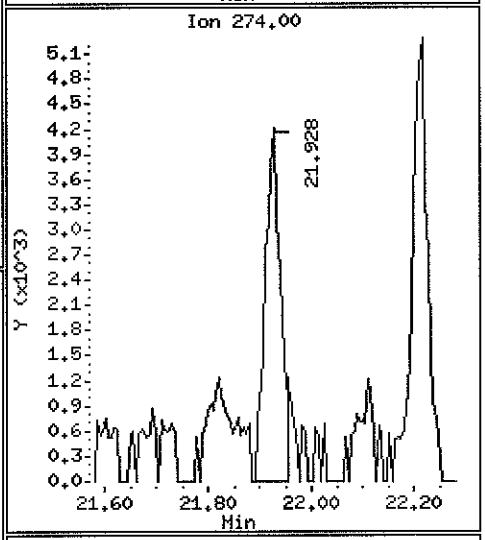
78 Indeno(1,2,3-cd)pyrene

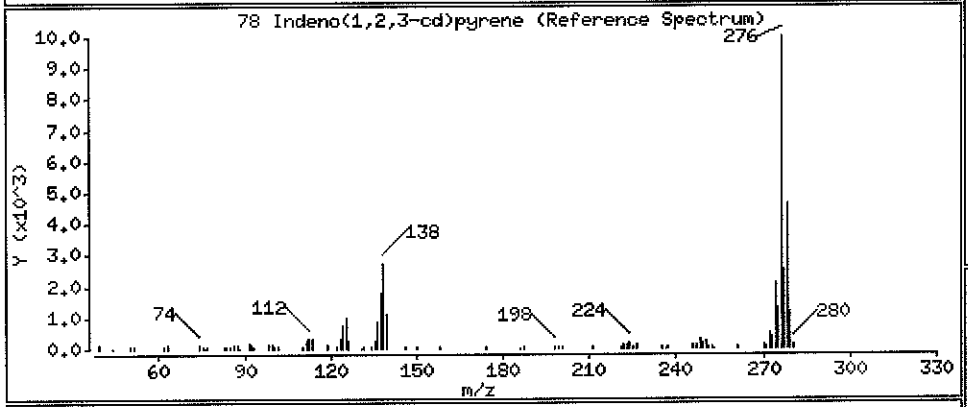
Concentration: 18.04 ug/kg

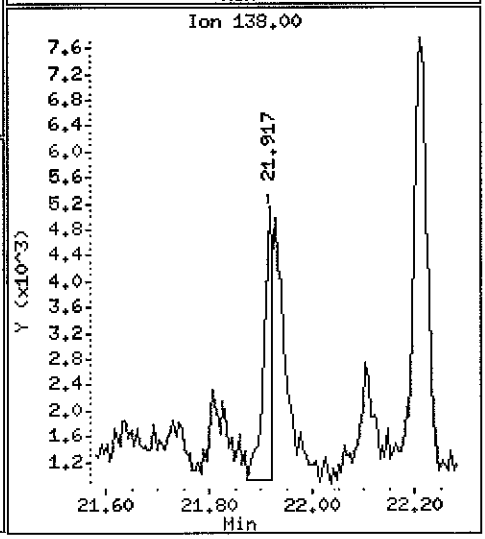


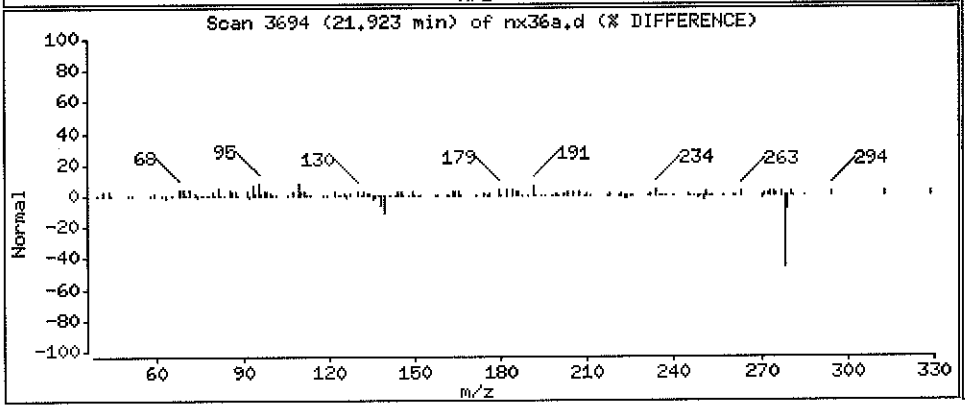












Data File: /chem1/nt6.i/20081114.b/nx36a.d

Date : 14-NOV-2008 21:13

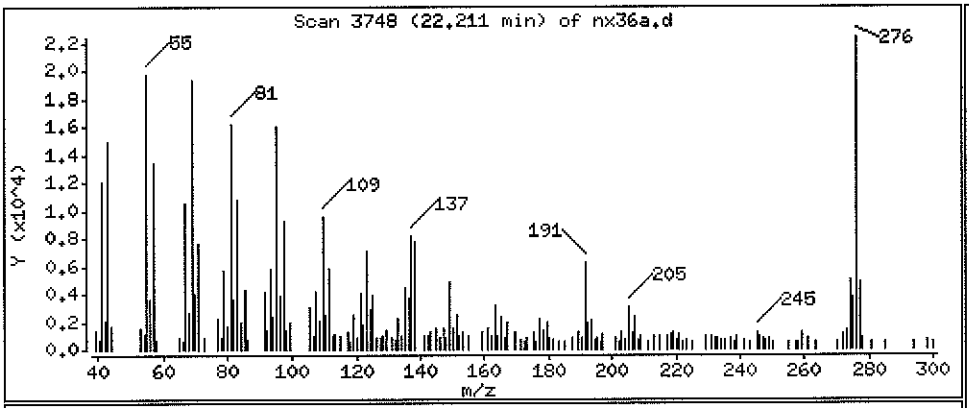
Client ID: EB-SE06-SE-A-081030 Instrument: nt6.i

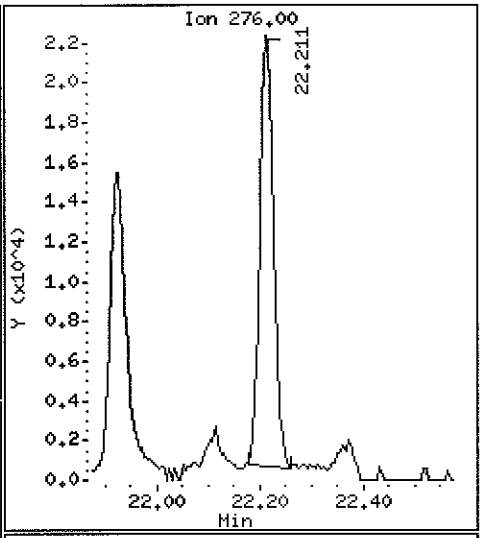
Sample Info: NX36A

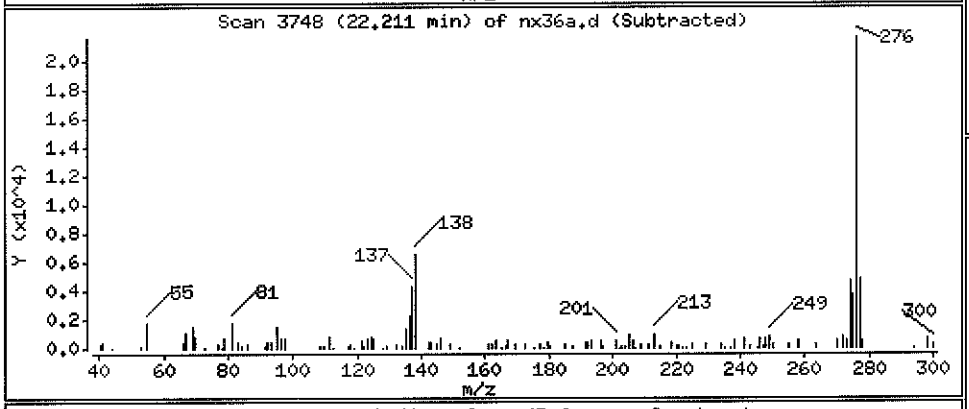
Volume Injected (uL): 1.0 Operator: LJR/VTS

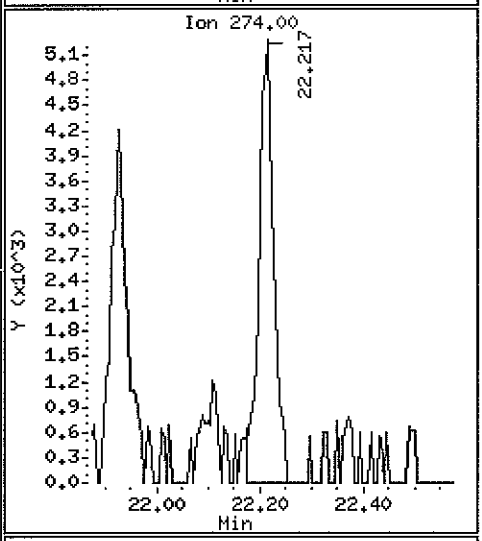
Column phase: ZB-5 Column diameter: 0.32

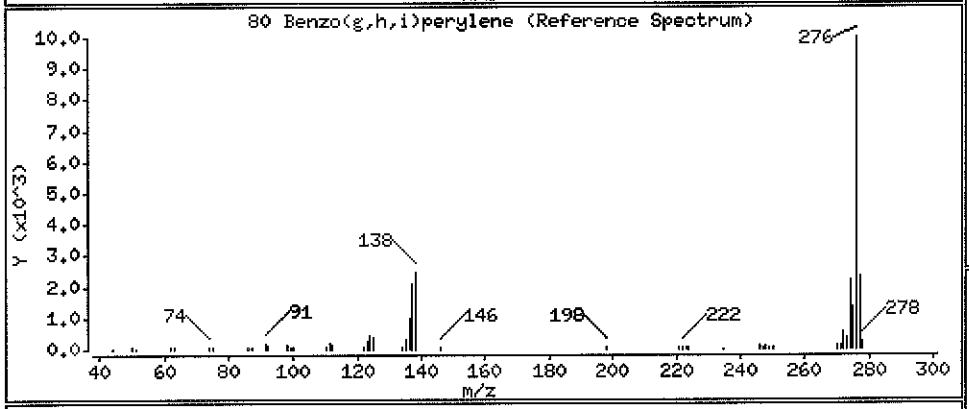
80 Benzo(g,h,i)perylene Concentration: 29.25 ug/kg

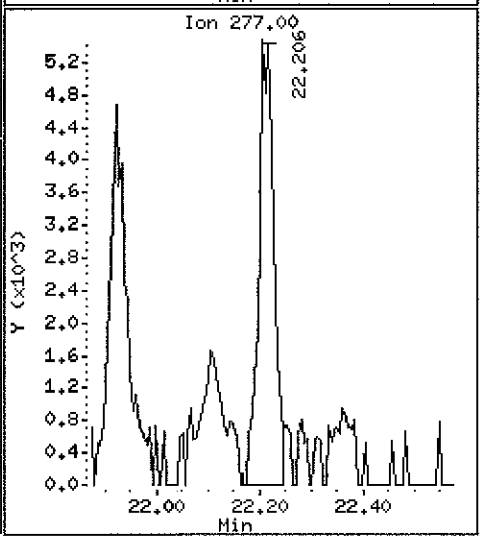


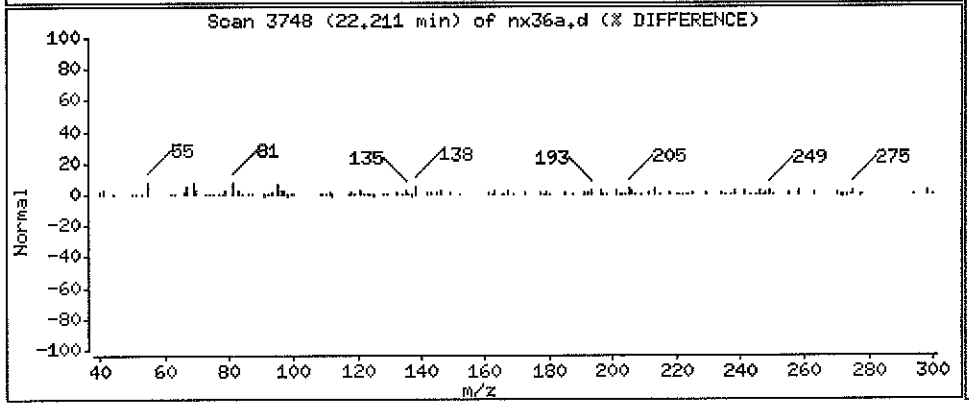












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PNAs by SW8270D GC/MS

Sample ID: EB-SE07-SE-A-081030
SAMPLE

Lab Sample ID: NX36B
LIMS ID: 08-29555
Matrix: Sediment
Data Release Authorized:
Reported: 11/17/08

QC Report No: NX36-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/30/08
Date Received: 10/30/08

Date Extracted: 11/10/08
Date Analyzed: 11/14/08 21:47
Instrument/Analyst: NT6/LJR
GPC Cleanup: No
Alumina: No
Silica Gel: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 24.9%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
90-12-0	1-Methylnaphthalene	20	< 20 U
208-96-8	**Acenaphthylene**	**20**	**17 J**
83-32-9	Acenaphthene	20	< 20 U
86-73-7	Fluorene	20	< 20 U
85-01-8	**Phenanthrene**	**20**	**32**
120-12-7	**Anthracene**	**20**	**28**
206-44-0	**Fluoranthene**	**20**	**120**
129-00-0	**Pyrene**	**20**	**120**
56-55-3	**Benzo(a)anthracene**	**20**	**48**
218-01-9	**Chrysene**	**20**	**93**
205-99-2	**Benzo(b)fluoranthene**	**20**	**100**
207-08-9	**Benzo(k)fluoranthene**	**20**	**55**
50-32-8	**Benzo(a)pyrene**	**20**	**52**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**20**	**30**
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	**Benzo(g,h,i)perylene**	**20**	**39**
132-64-9	Dibenzofuran	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	72.0%
2-Fluorobiphenyl	62.4%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20081114.b/nx36b.d
Lab Smp Id: NX36B
Client Smp ID: EB-SE07-SE-A-081030
Inj Date : 14-NOV-2008 21:47
Operator : LJR/VTS
Inst ID: nt6.i
Smp Info : NX36B
Misc Info : 08-29555
Comment : 1ul Injection
Method : /chem1/nt6.i/20081114.b/SW846.m
Meth Date : 17-Nov-2008 10:39 jeff
Quant Type: ISTD
Cal Date : 10-NOV-2008 14:59
Cal File: 0101110.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: pna.sub
Target Version: 3.50

LJR 11/17/08

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	34.00000	Weight of sample extracted (g)
M	24.90000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
* 27 Naphthalene-d8	136	9.010	9.020	(1.000)	431826	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	141	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	10.826	10.837	(0.913)	255749	15.5659	304.8
40 Acenaphthylene	152	11.596	11.601	(0.978)	19306	0.85192	16.68
* 42 Acenaphthene-d10	164	11.852	11.857	(1.000)	239172	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.192	14.197	(1.000)	382773	20.0000	
60 Phenanthrene	178	14.224	14.234	(1.002)	38784	1.63512	32.02
61 Anthracene	178	14.293	14.304	(1.007)	35515	1.43786	28.16
64 Fluoranthene	202	16.136	16.147	(1.137)	155692	6.04746	118.4
65 Pyrene	202	16.478	16.483	(0.893)	179930	6.38711	125.1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.847	16.852	(0.913)	348410	18.0130	352.7
	68 Benzo(a)anthracene	228	18.428	18.438	(0.998)	71437	2.45236	48.02
*	69 Chrysene-d12	240	18.460	18.465	(1.000)	465261	20.0000	
	71 Chrysene	228	18.492	18.503	(1.002)	134955	4.76456	93.30
	74 Benzo(b)fluoranthene	252	20.073	20.073	(0.975)	145416	5.33853	104.5(M)
	75 Benzo(k)fluoranthene	252	20.095	20.111	(0.976)	76757	2.80212	54.87(M)
	76 Benzo(a)pyrene	252	20.506	20.511	(0.996)	64663	2.64151	51.73(M)
*	77 Perylene-d12	264	20.592	20.586	(1.000)	425442	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	21.927	21.932	(1.065)	48266	1.54079	30.17
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	22.216	22.226	(1.079)	53423	1.98876	38.94(M)

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: nx36b.d
Lab Smp Id: NX36B
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20081114.b/SW846.m
Misc Info: 08-29555

Calibration Date: 14-NOV-2008
Calibration Time: 11:04
Client Smp ID: EB-SE07-SE-A-081
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	464989	232494	929978	431826	-7.13
42 Acenaphthene-d10	260727	130364	521454	239172	-8.27
59 Phenanthrene-d10	386739	193370	773478	382773	-1.03
69 Chrysene-d12	448578	224289	897156	465261	3.72
77 Perylene-d12	467835	233918	935670	425442	-9.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.02	8.52	9.52	9.01	-0.11
42 Acenaphthene-d10	11.86	11.36	12.36	11.85	-0.04
59 Phenanthrene-d10	14.20	13.70	14.70	14.19	-0.04
69 Chrysene-d12	18.47	17.97	18.97	18.46	-0.03
77 Perylene-d12	20.59	20.09	21.09	20.59	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

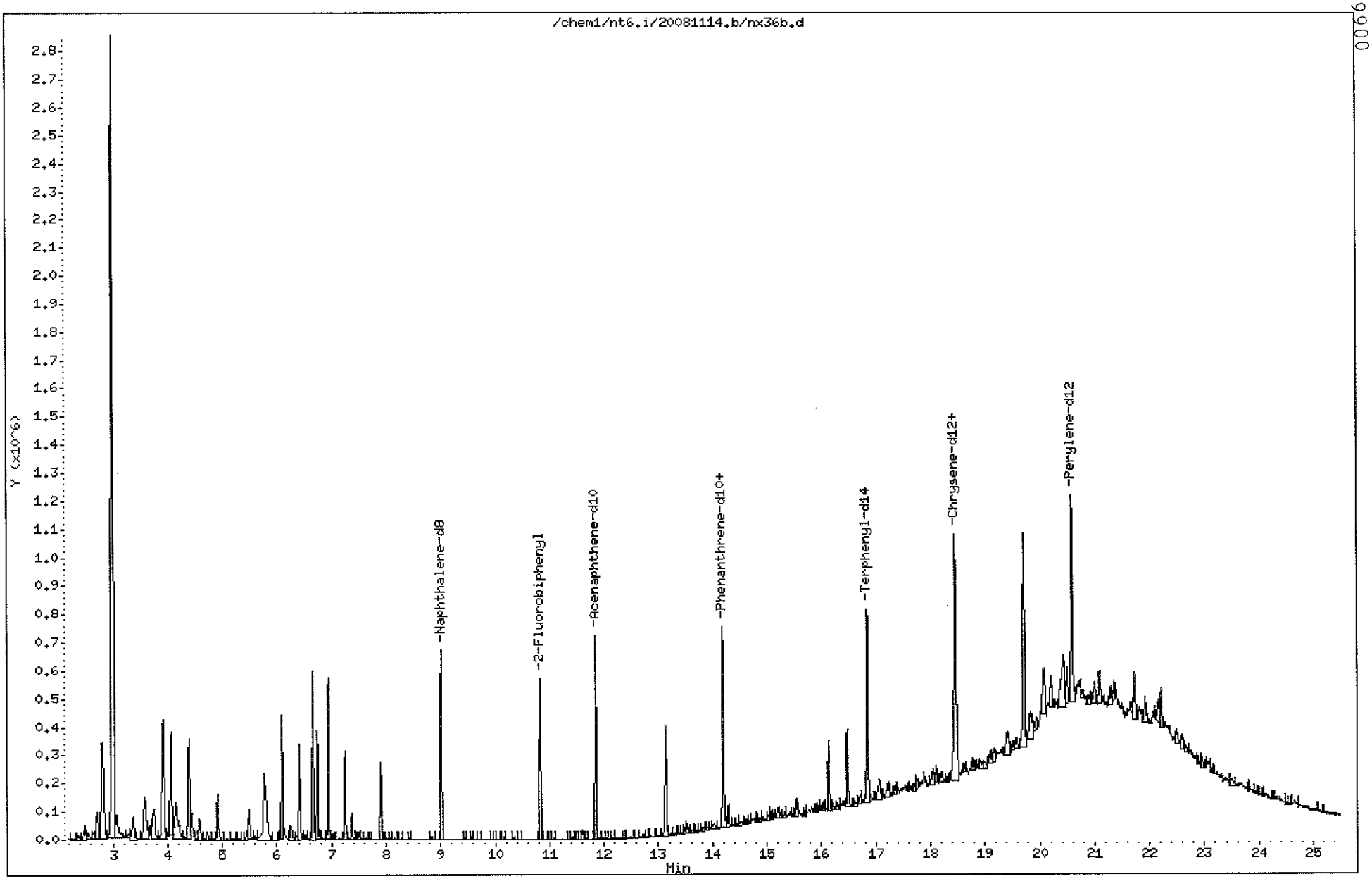
Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: NX36B
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pna.sub
Method File: /chem1/nt6.i/20081114.b/SW846.m
Misc Info: 08-29555

Client SDG: NX36
Fraction: SV
Client Smp ID: EB-SE07-SE-A-081030
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	489.5	304.8	62.26	30-160
$ 66 Terphenyl-d14	489.5	352.7	72.05	30-123

Data File: /chem1/nt6.i/20081114.b/nx36b.d
Date : 14-NOV-2008 21:47
Client ID: EB-SE07-SE-A-081030
Sample Info: NX36B
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32



Data File: /chem1/nt6.i/20081114.b/nx36b.d

Date : 14-NOV-2008 21:47

Client ID: EB-SE07-SE-A-081030

Instrument: nt6.i

Sample Info: NX36B

Volume Injected (uL): 1.0

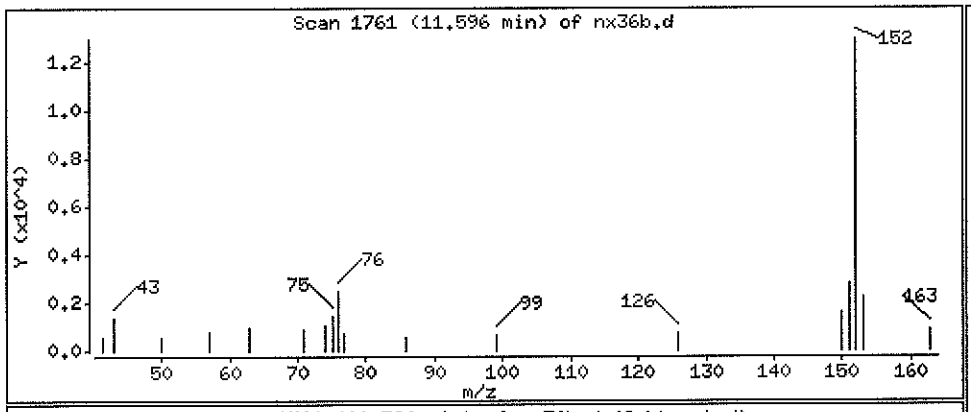
Operator: LJR/VTS

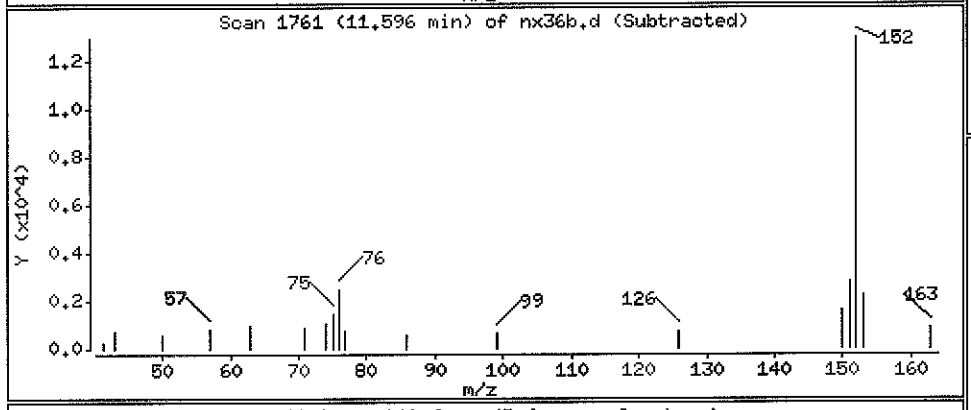
Column phase: ZB-5

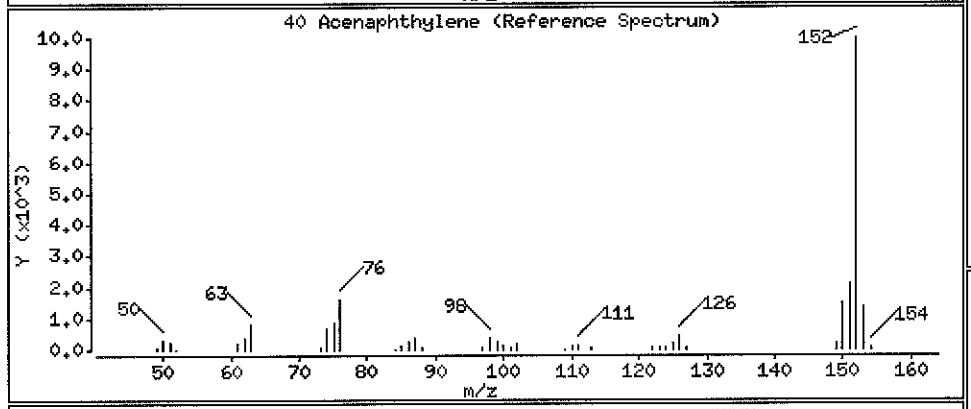
Column diameter: 0.32

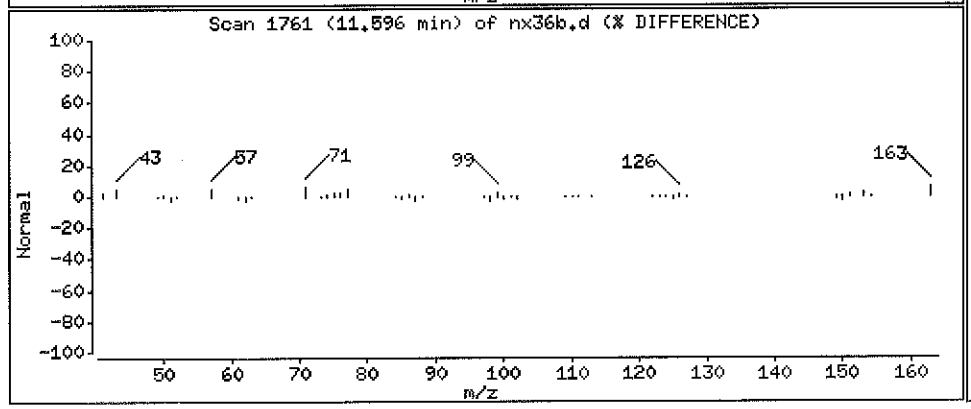
40 Acenaphthylene

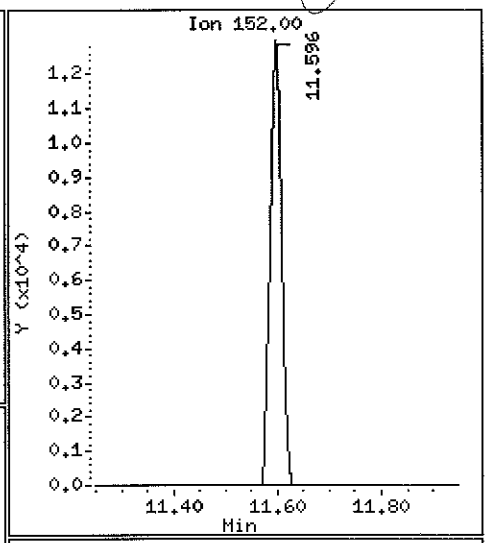
Concentration: 16.68 ug/kg

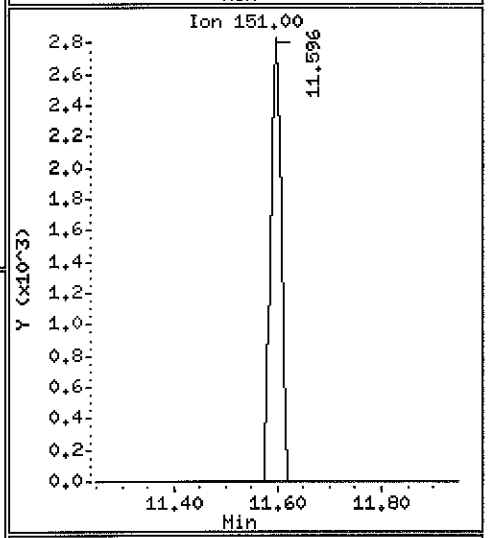


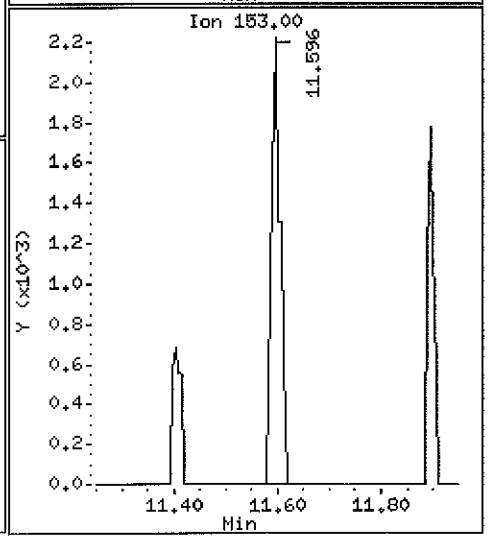












Data File: /chem1/nt6.i/20081114.b/nx36b.d

Date : 14-NOV-2008 21:47

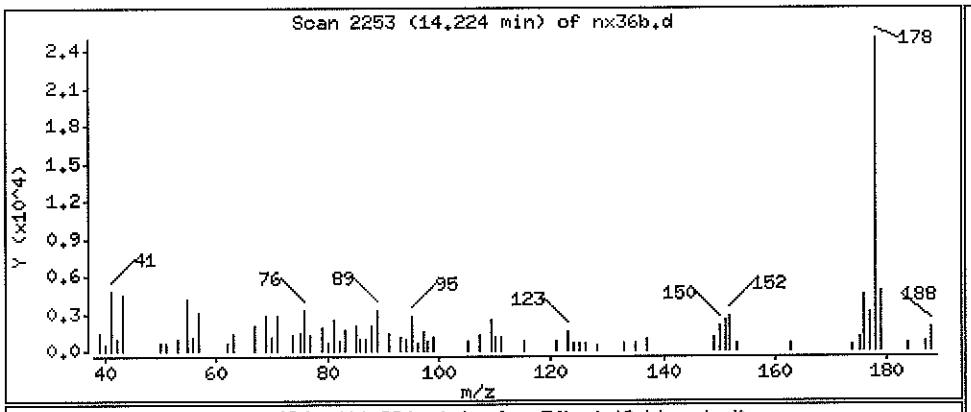
Client ID: EB-SE07-SE-A-081030 Instrument: nt6.i

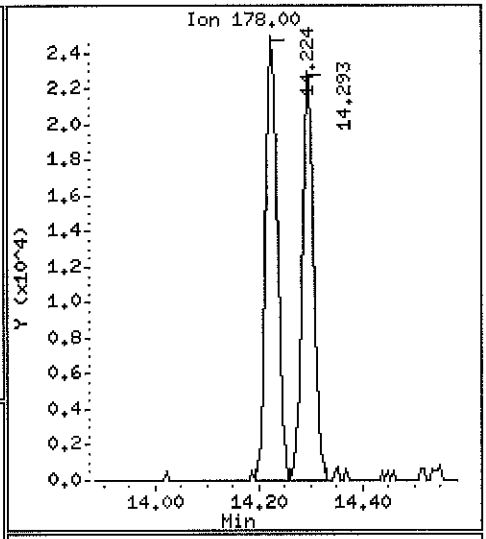
Sample Info: NX36B

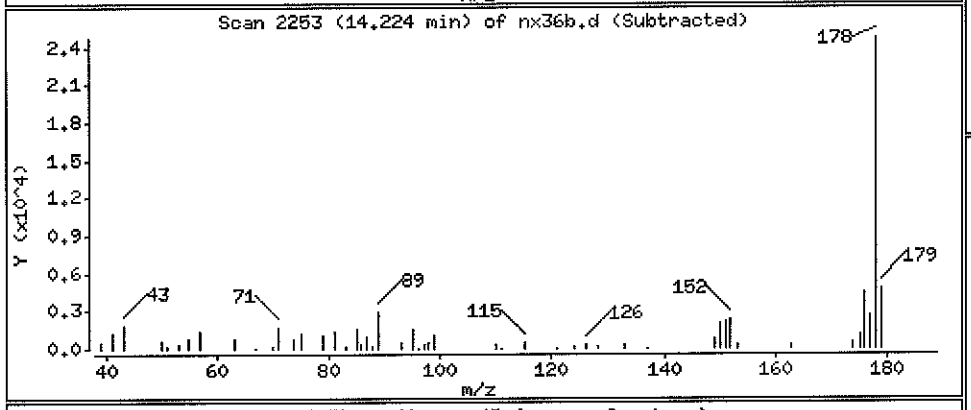
Volume Injected (uL): 1.0 Operator: LJR/VTS

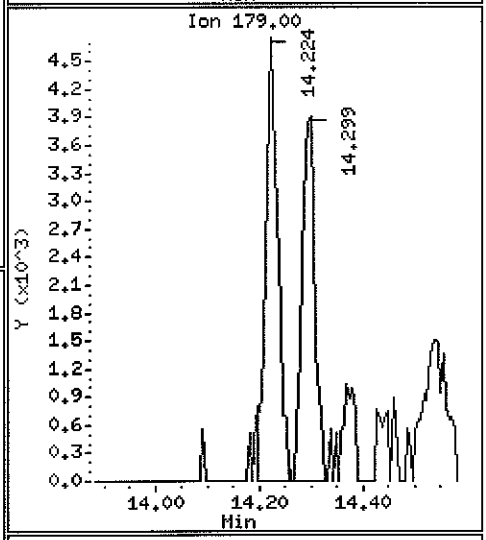
Column phase: ZB-5 Column diameter: 0.32

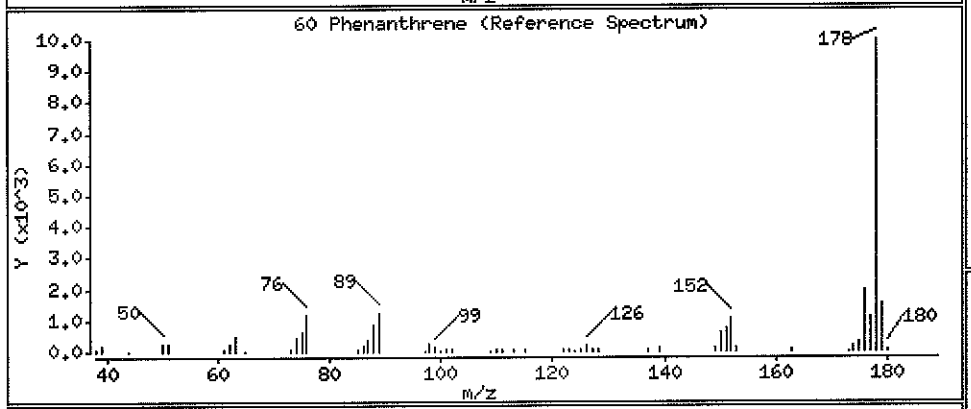
60 Phenanthrene Concentration: 32.02 ug/kg

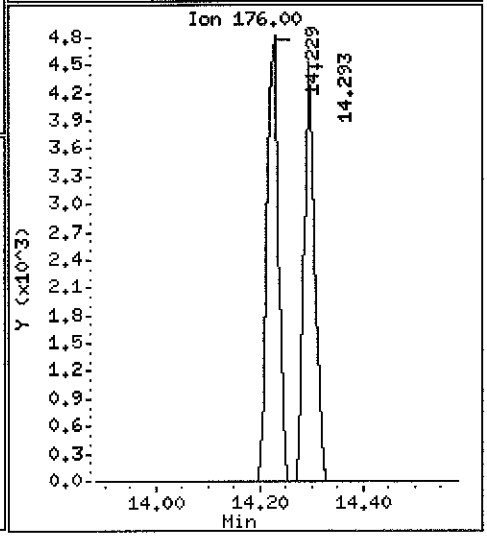


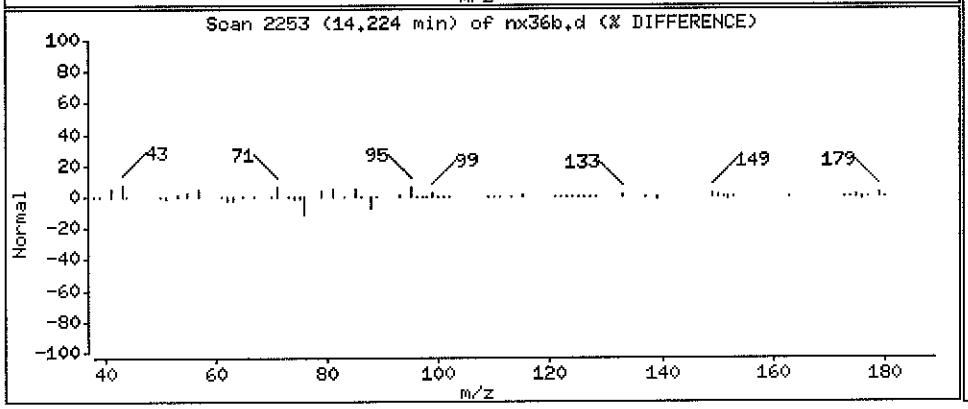












Data File: /chem1/nt6.i/20081114.b/nx36b.d

Date : 14-NOV-2008 21:47

Client ID: EB-SE07-SE-A-081030

Instrument: nt6.i

Sample Info: NX36B

Volume Injected (uL): 1.0

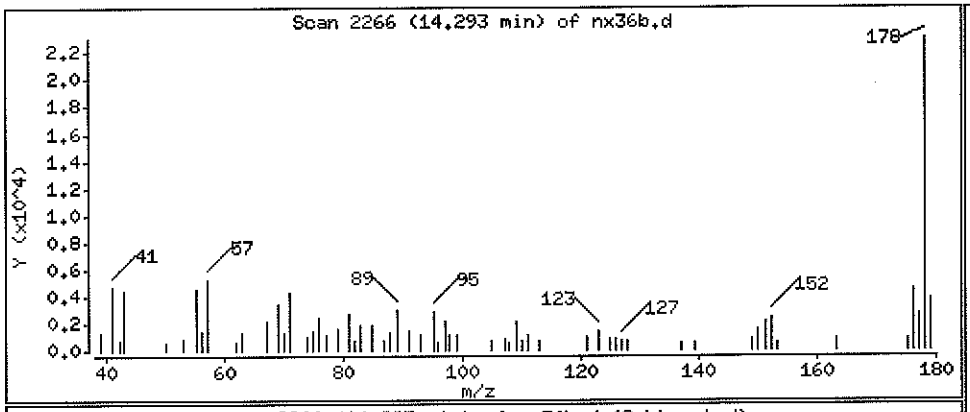
Operator: LJR/VTS

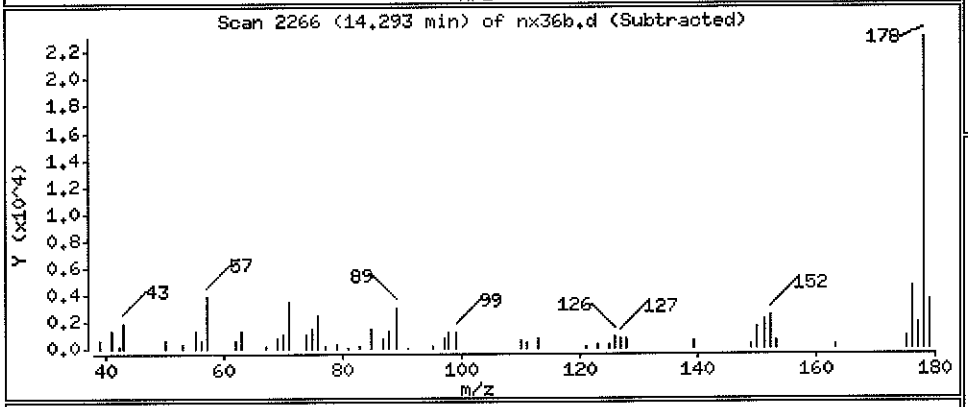
Column phase: ZB-5

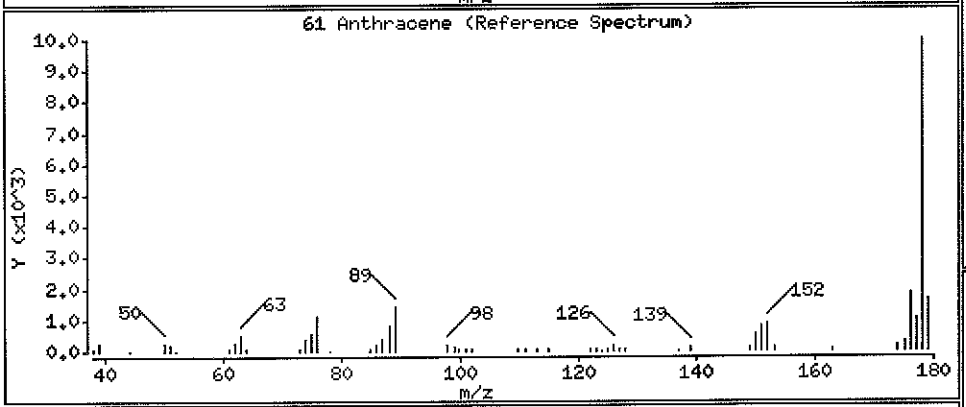
Column diameter: 0.32

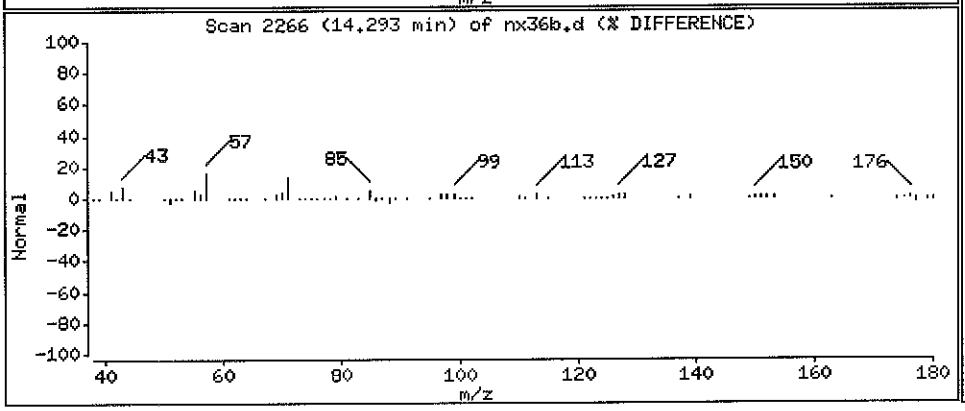
61 Anthracene

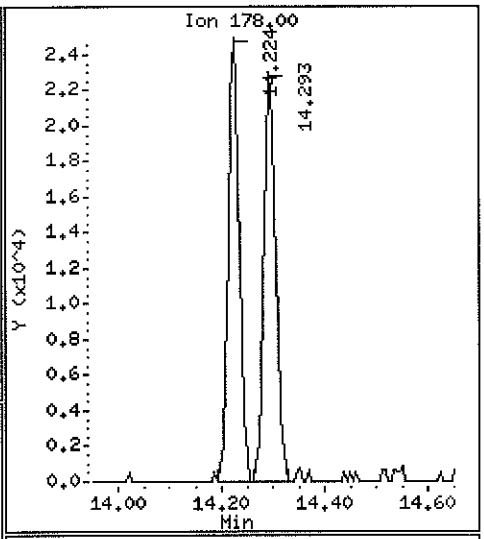
Concentration: 28.16 ug/kg

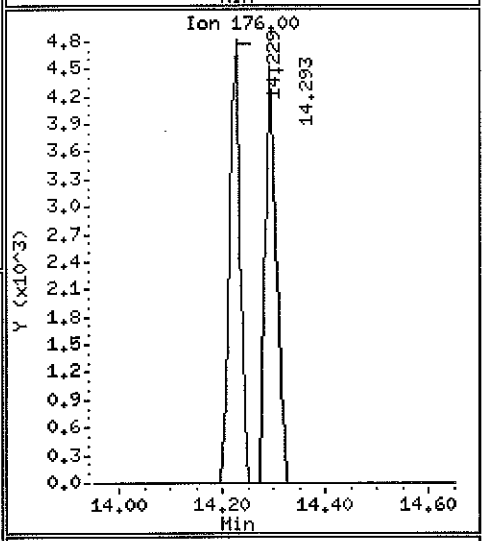


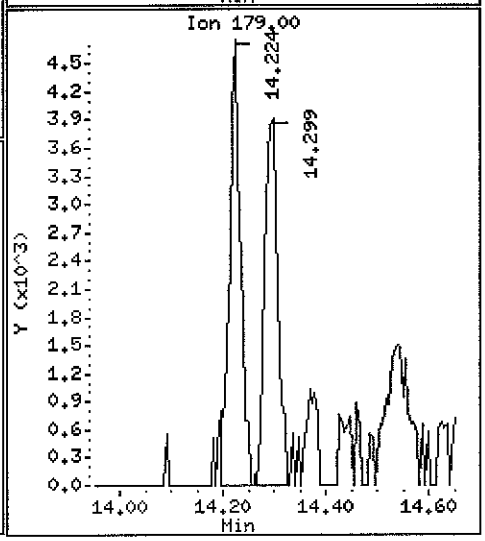












Data File: /chem1/nt6.i/20081114.b/nx36b.d

Date : 14-NOV-2008 21:47

Client ID: EB-SE07-SE-A-081030

Instrument: nt6.i

Sample Info: NX36B

Volume Injected (uL): 1.0

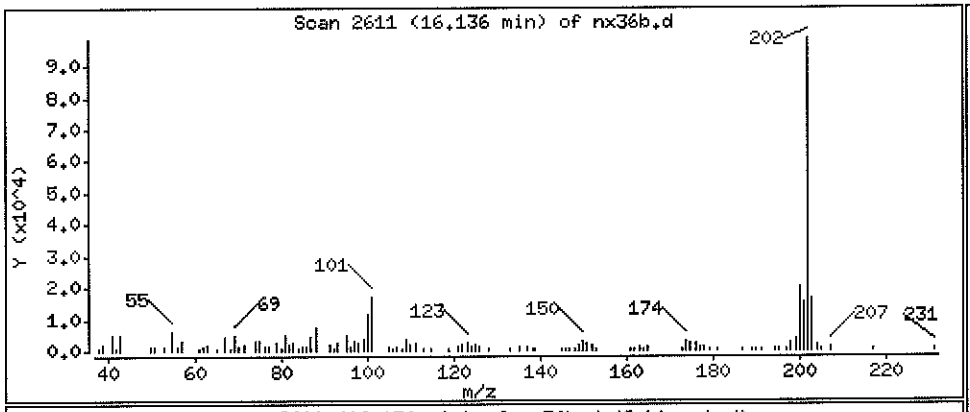
Operator: LJR/VTS

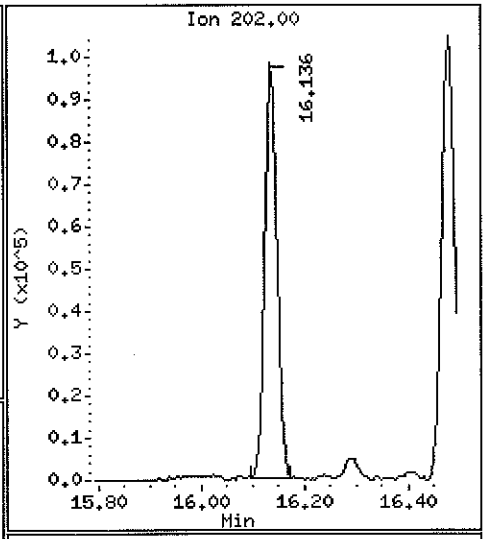
Column phase: ZB-5

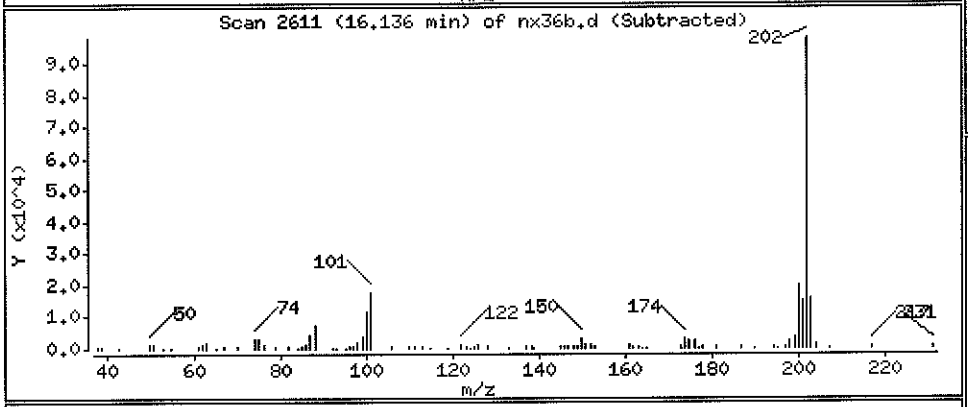
Column diameter: 0.32

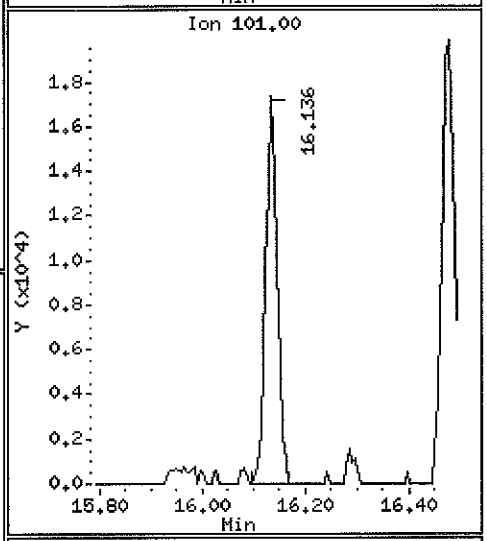
64 Fluoranthene

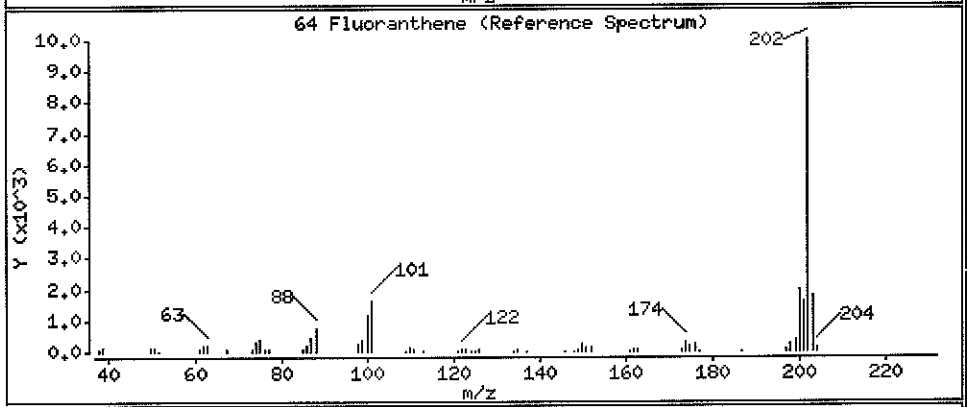
Concentration: 118.4 ug/kg

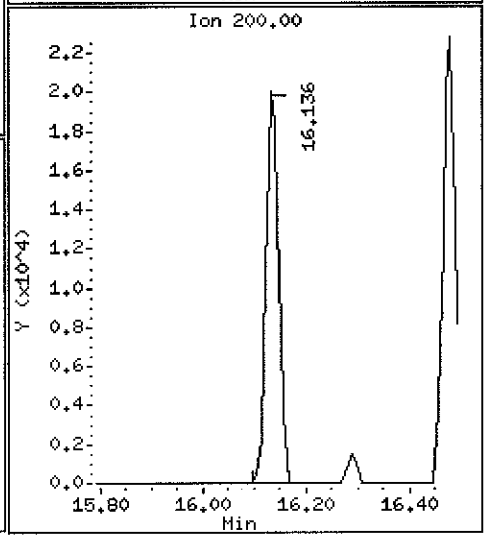


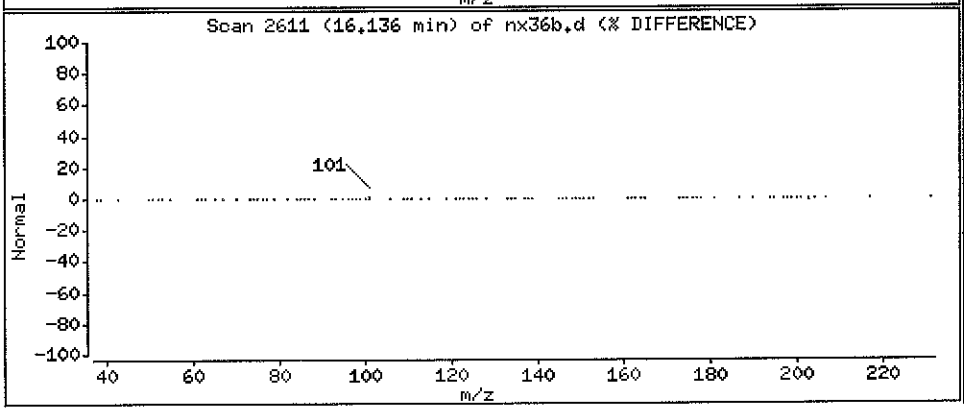












Data File: /chem1/nt6.i/20081114.b/nx36b.d

Date : 14-NOV-2008 21:47

Client ID: EB-SE07-SE-A-081030

Instrument: nt6.i

Sample Info: NX36B

Volume Injected (uL): 1.0

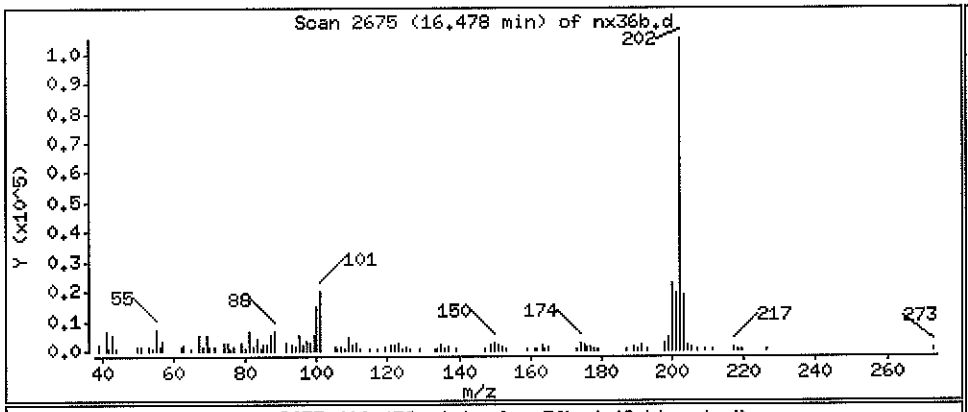
Operator: LJR/VTS

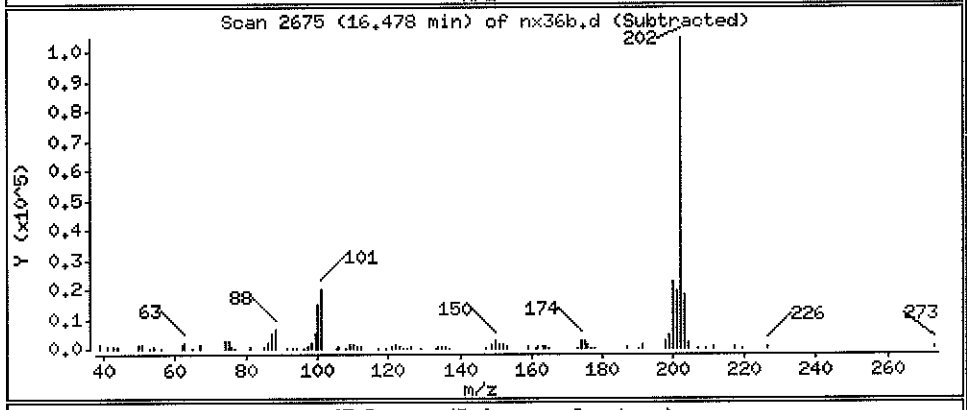
Column phase: ZB-5

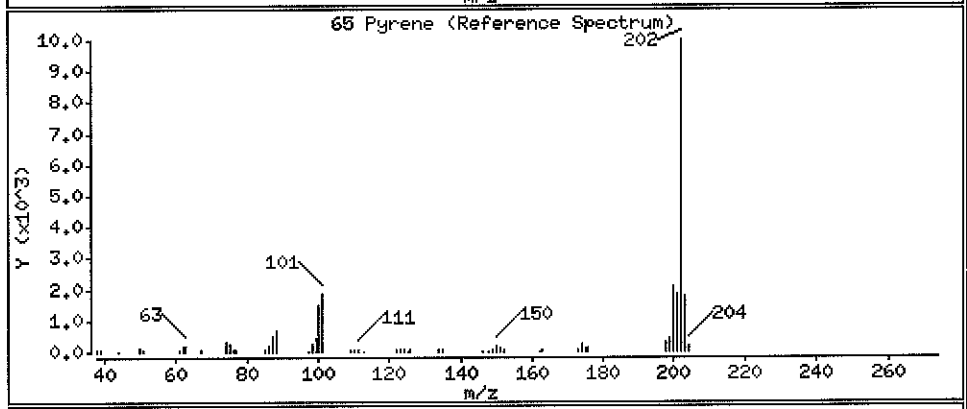
Column diameter: 0.32

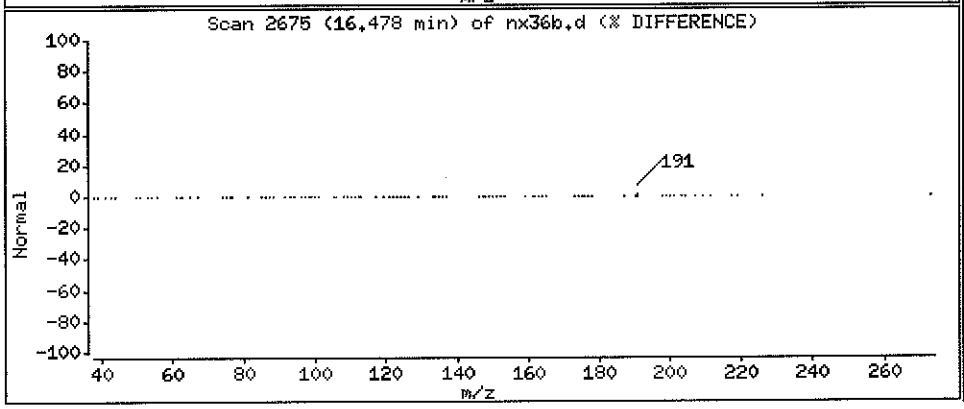
65 Pyrene

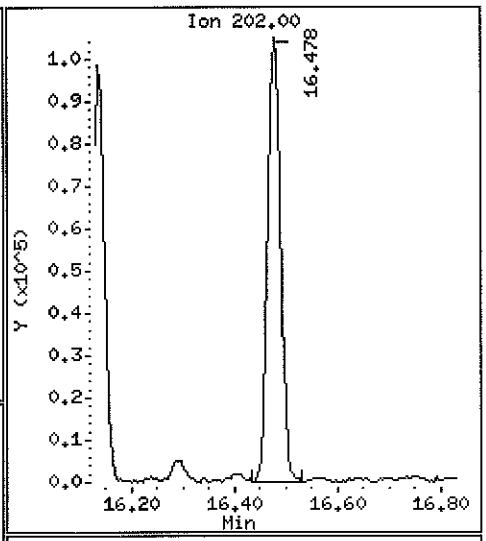
Concentration: 125.1 ug/kg

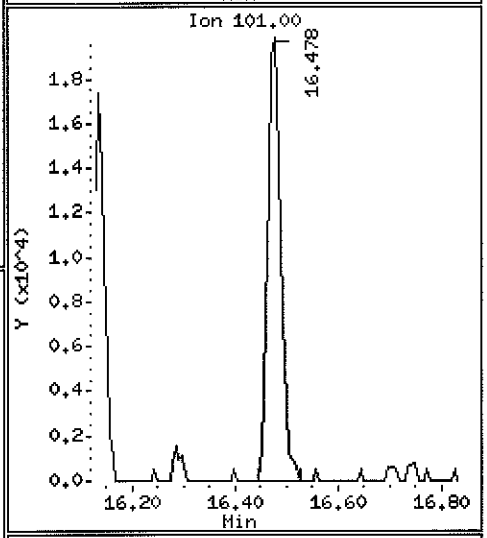


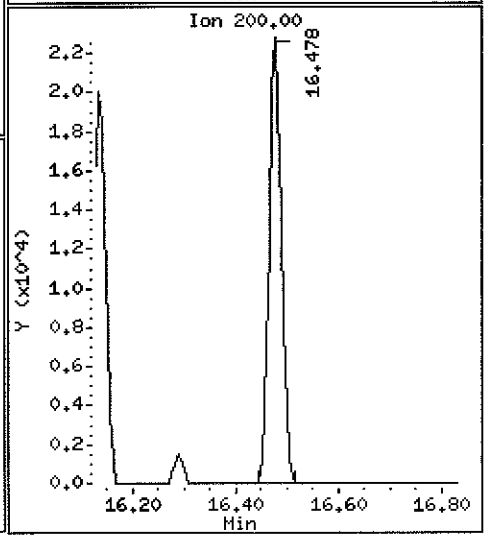












Data File: /chem1/nt6.i/20081114.b/nx36b.d

Date : 14-NOV-2008 21:47

Client ID: EB-SE07-SE-A-081030

Instrument: nt6.i

Sample Info: NX36B

Volume Injected (uL): 1.0

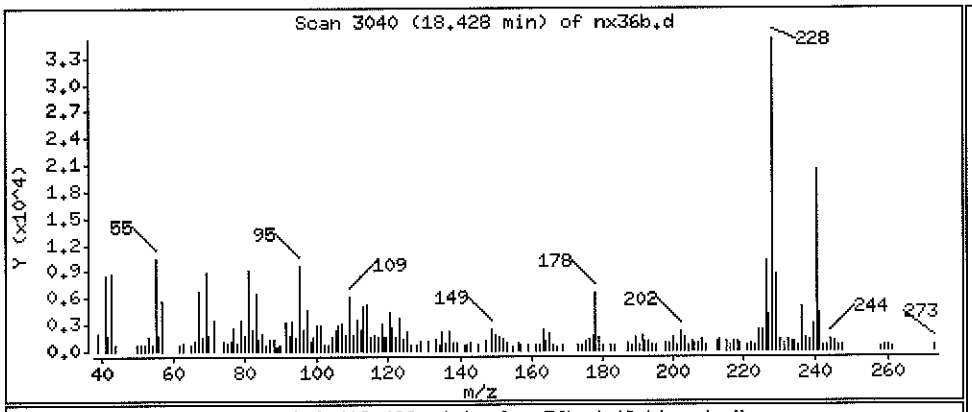
Operator: LJR/VTS

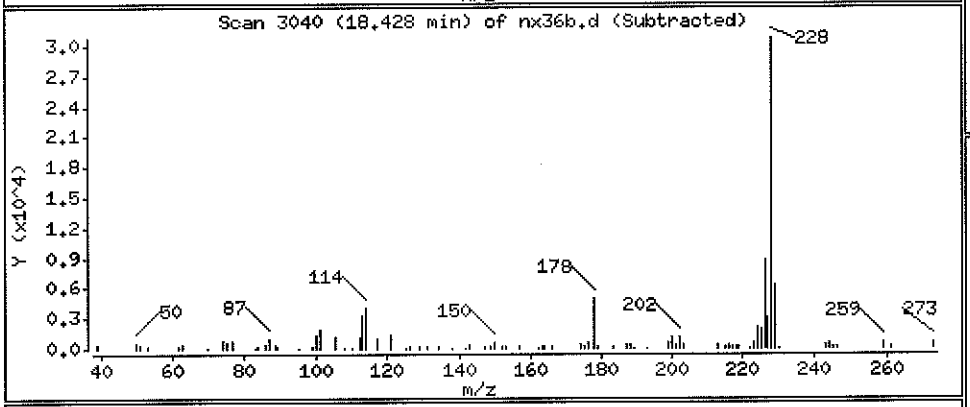
Column phase: ZB-5

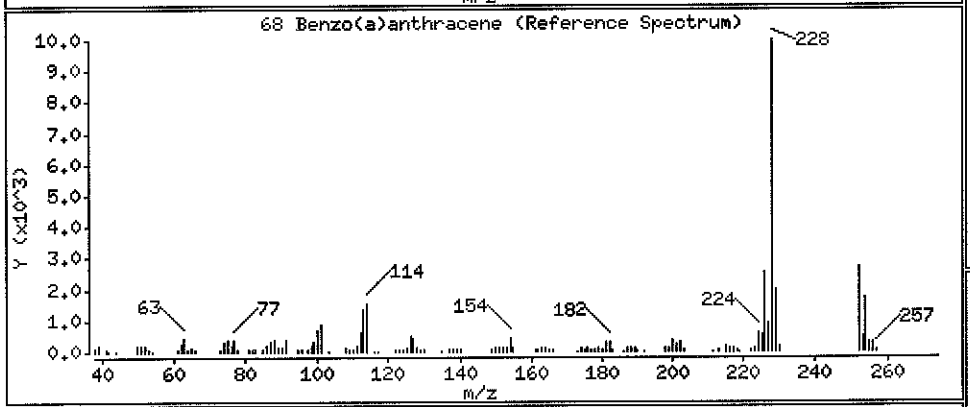
Column diameter: 0.32

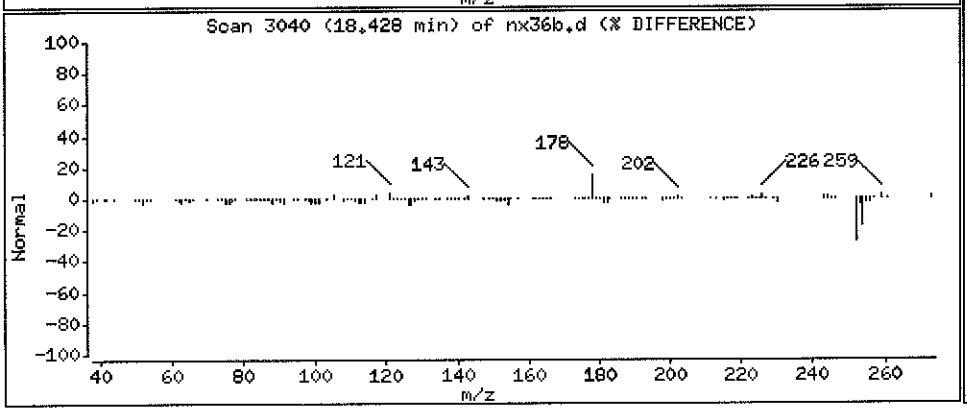
68 Benzo(a)anthracene

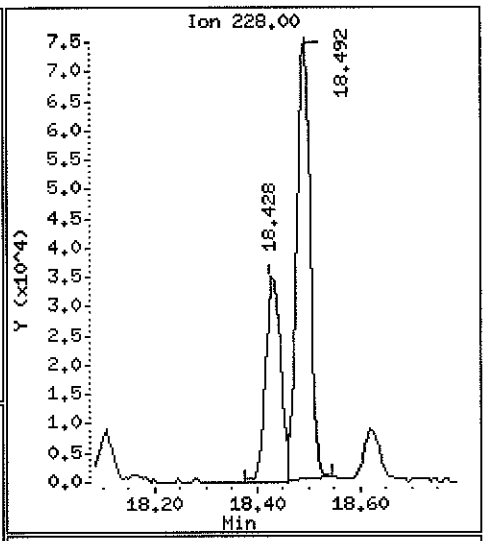
Concentration: 48.02 ug/kg

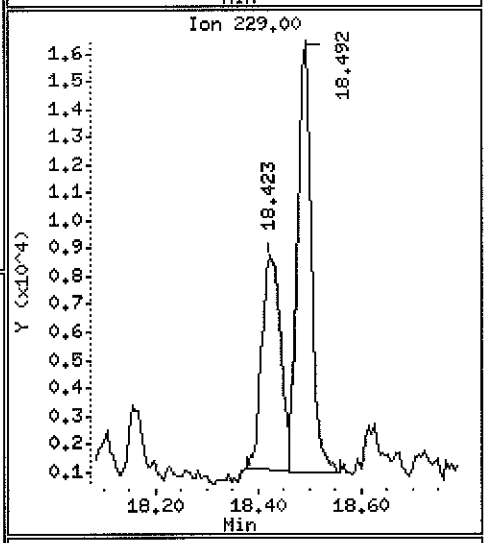


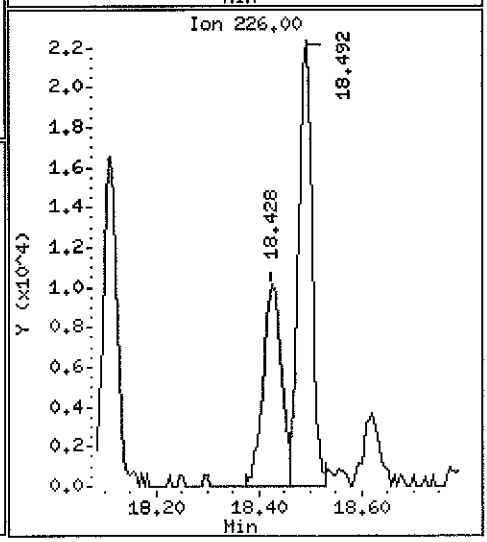












Data File: /chem1/nt6.i/20081114.b/nx36b.d

Date : 14-NOV-2008 21:47

Client ID: EB-SE07-SE-A-081030

Instrument: nt6.i

Sample Info: NX36B

Volume Injected (uL): 1.0

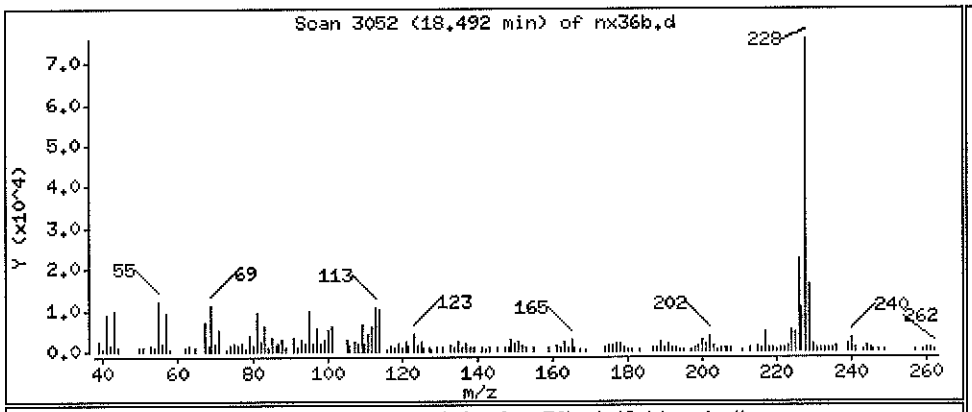
Operator: LJR/VTS

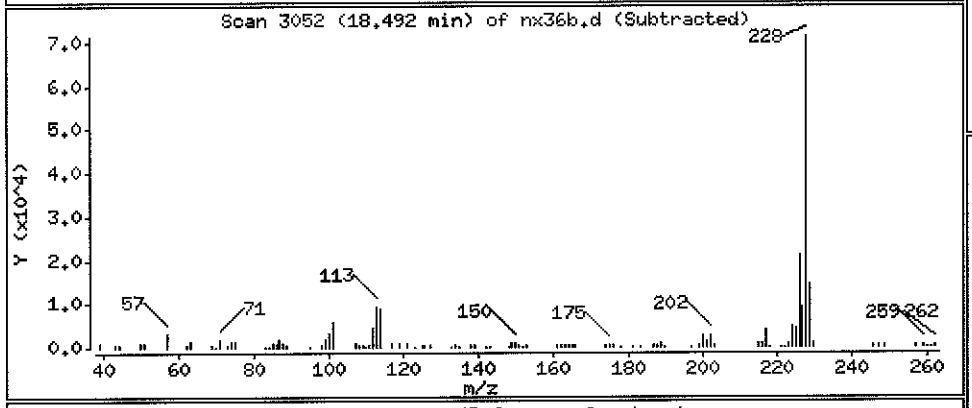
Column phase: ZB-5

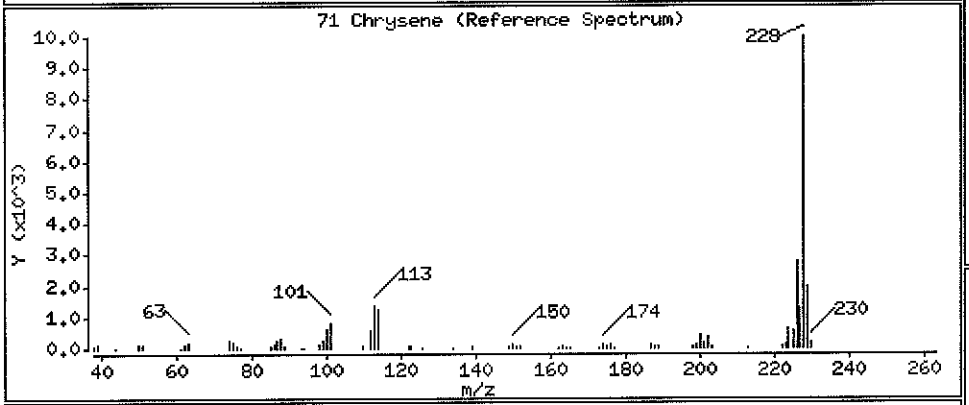
Column diameter: 0.32

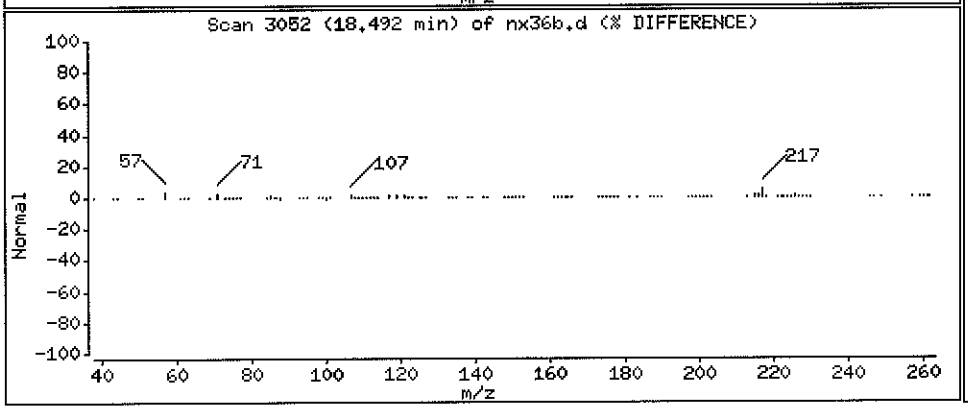
71 Chrysene

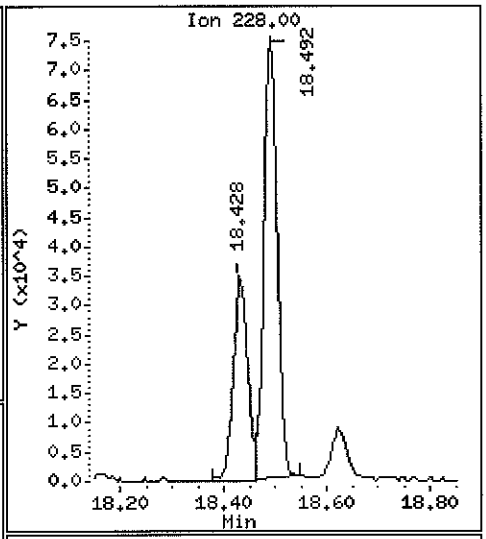
Concentration: 93.30 ug/kg

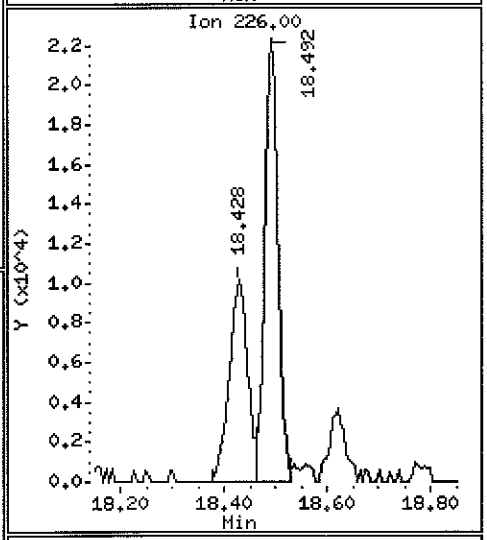


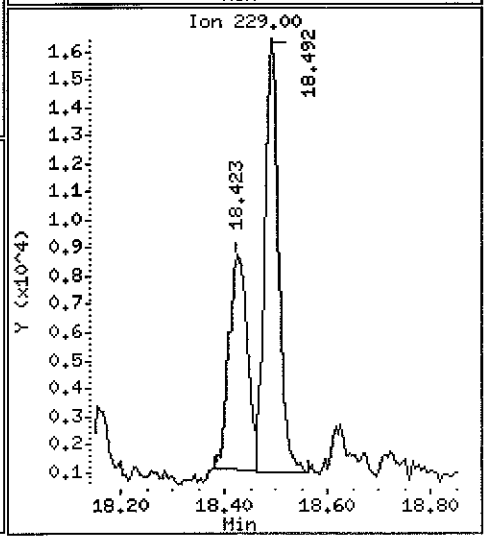












Data File: /chem1/nt6.i/20081114.b/nx36b.d

Date : 14-NOV-2008 21:47

Client ID: EB-SE07-SE-A-081030

Instrument: nt6.i

Sample Info: NX36B

Volume Injected (uL): 1.0

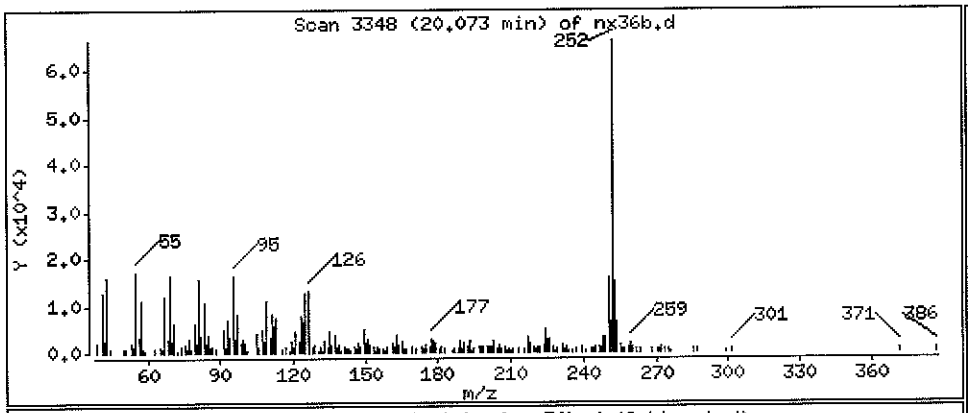
Operator: LJR/VTS

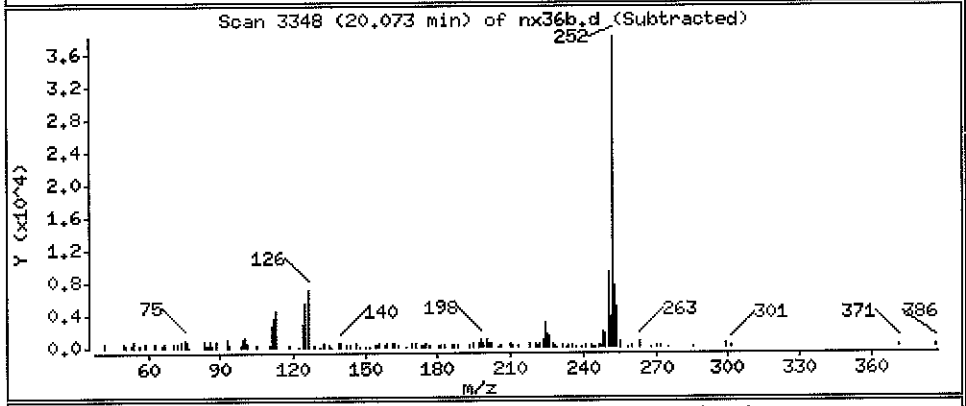
Column phase: ZB-5

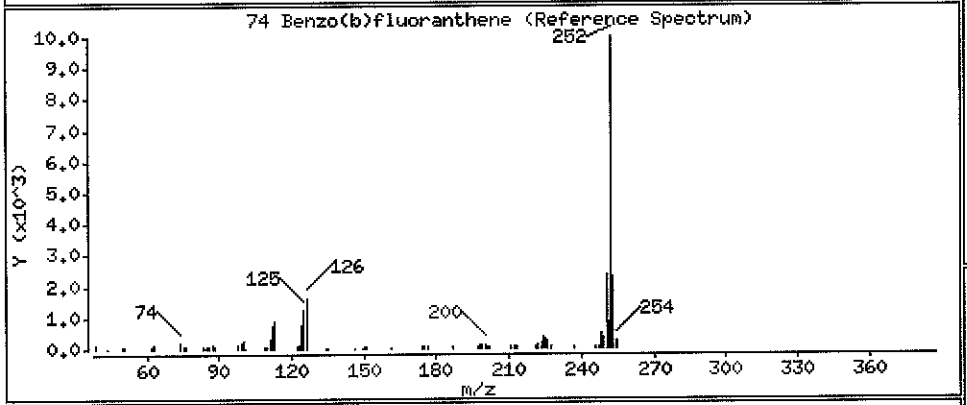
Column diameter: 0.32

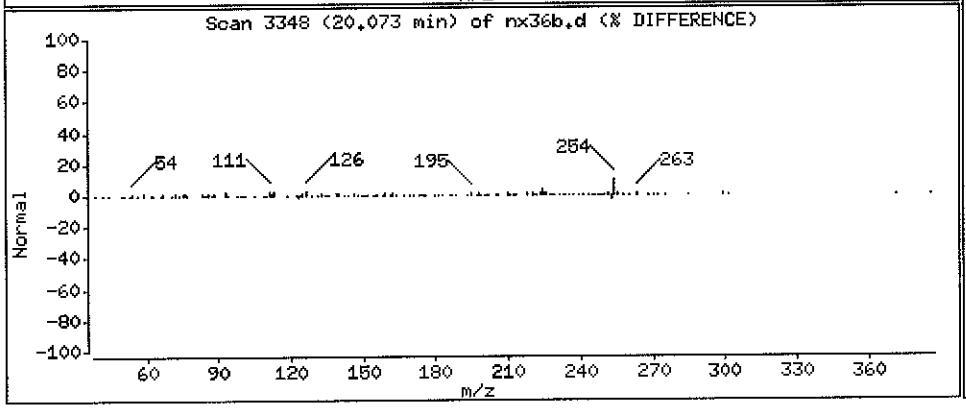
74 Benzo(b)fluoranthene

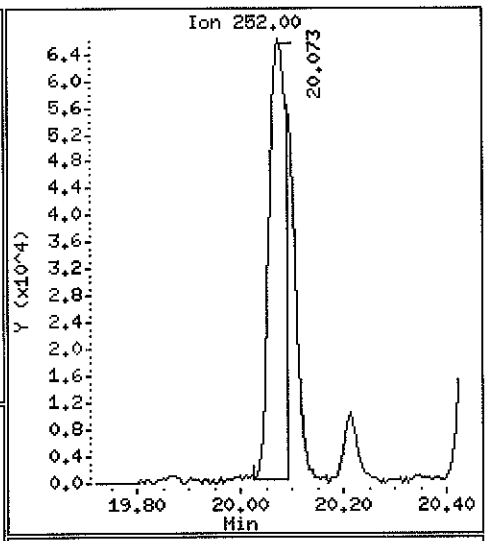
Concentration: 104.5 ug/kg

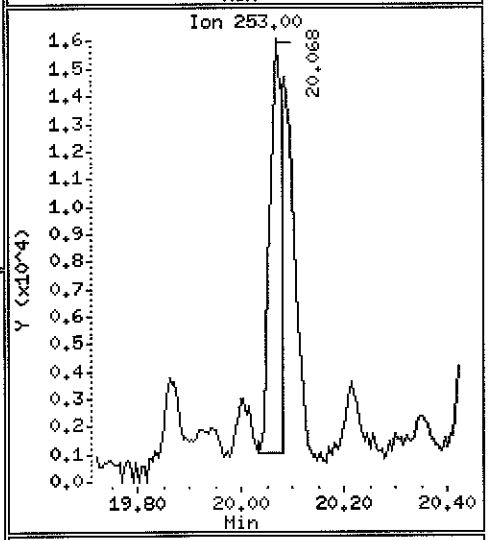


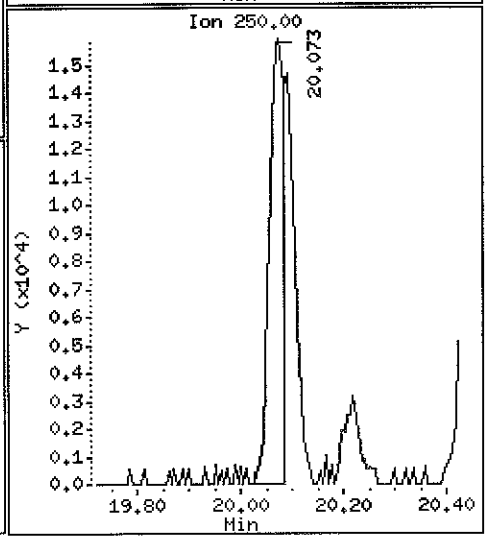












Data File: /chem1/nt6.i/20081114.b/nx36b.d

Date : 14-NOV-2008 21:47

Client ID: EB-SE07-SE-A-081030

Instrument: nt6.i

Sample Info: NX36B

Volume Injected (uL): 1.0

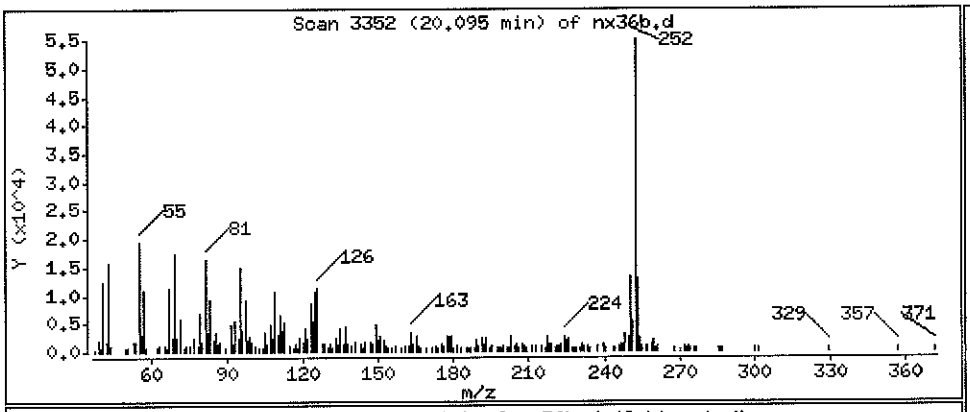
Operator: LJR/VTS

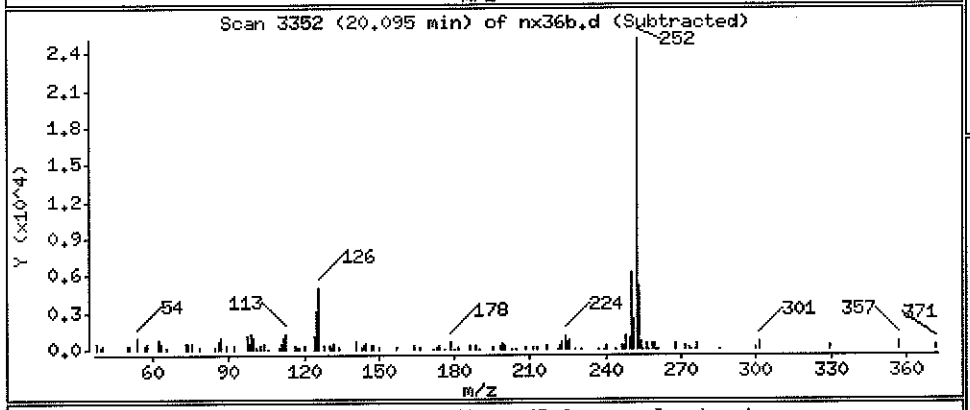
Column phase: ZB-5

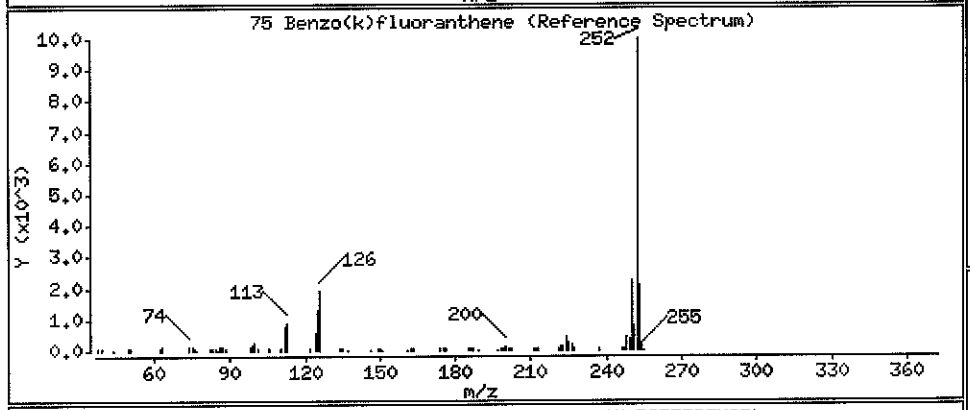
Column diameter: 0.32

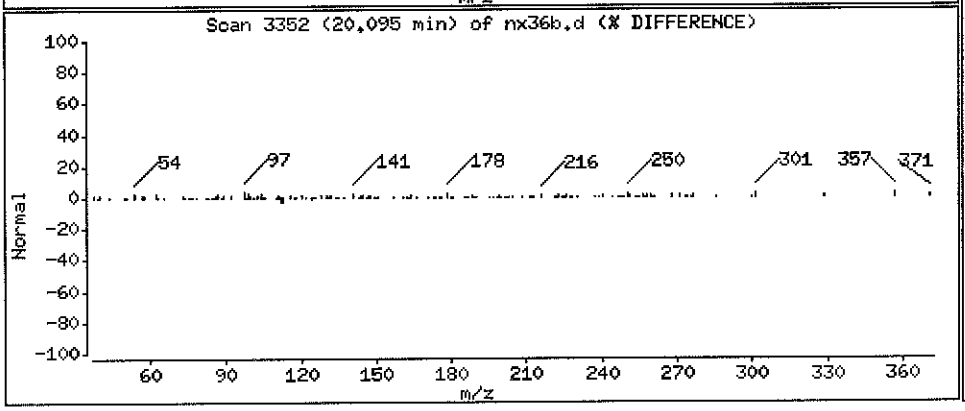
75 Benzo(k)fluoranthene

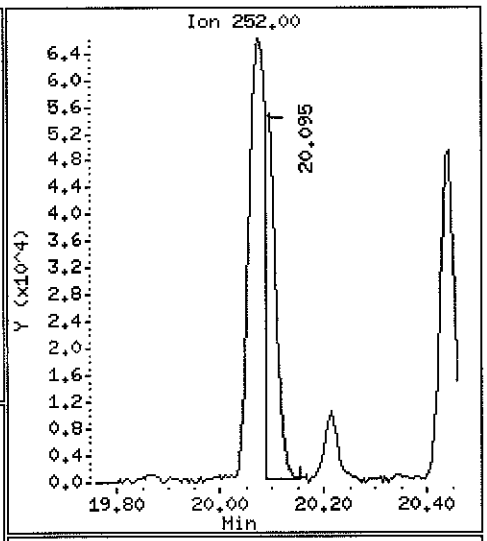
Concentration: 54.87 ug/kg

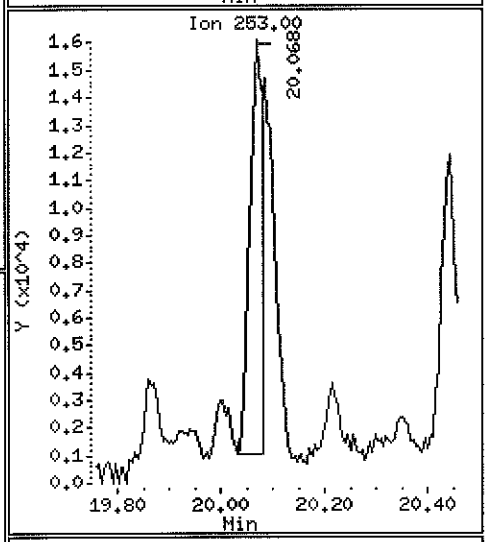


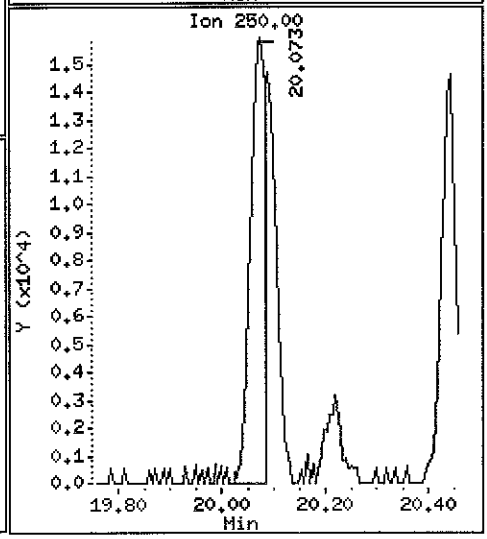












Data File: /chem1/nt6.i/20081114.b/nx36b.d

Date : 14-NOV-2008 21:47

Client ID: EB-SE07-SE-A-081030

Instrument: nt6.i

Sample Info: NX36B

Volume Injected (uL): 1.0

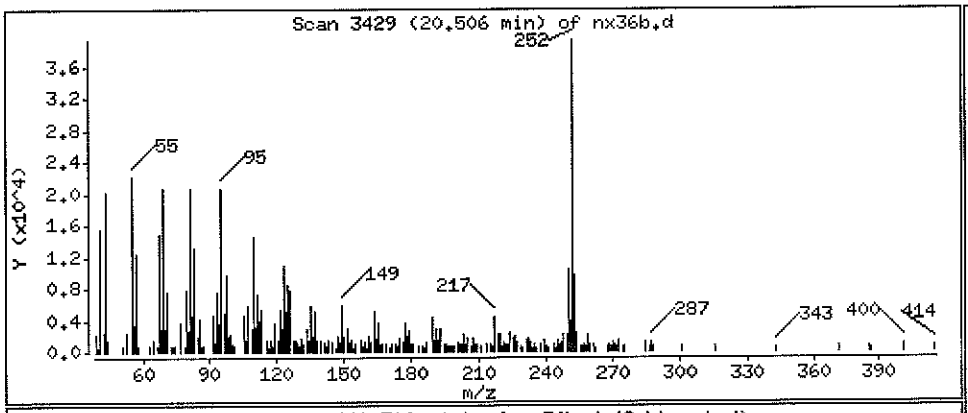
Operator: LJR/VTS

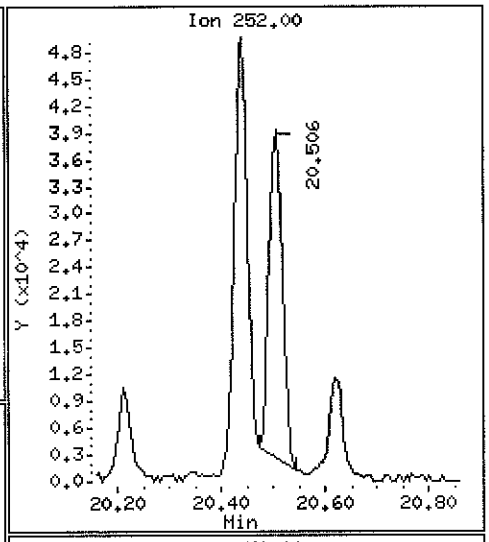
Column phase: ZB-5

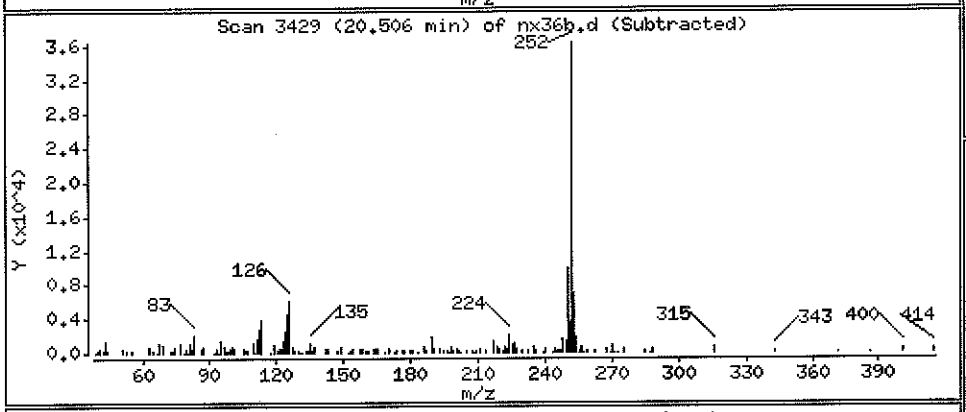
Column diameter: 0.32

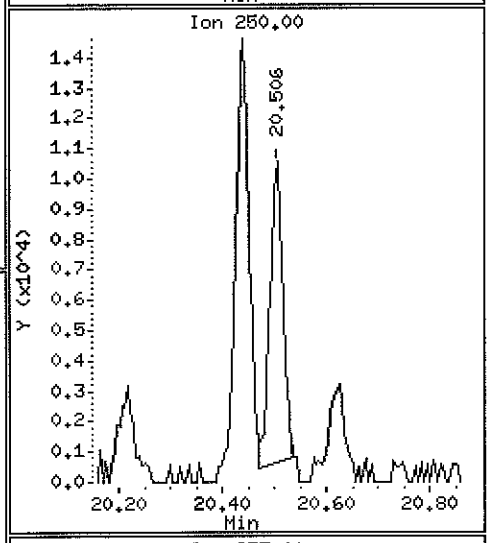
76 Benzo(a)pyrene

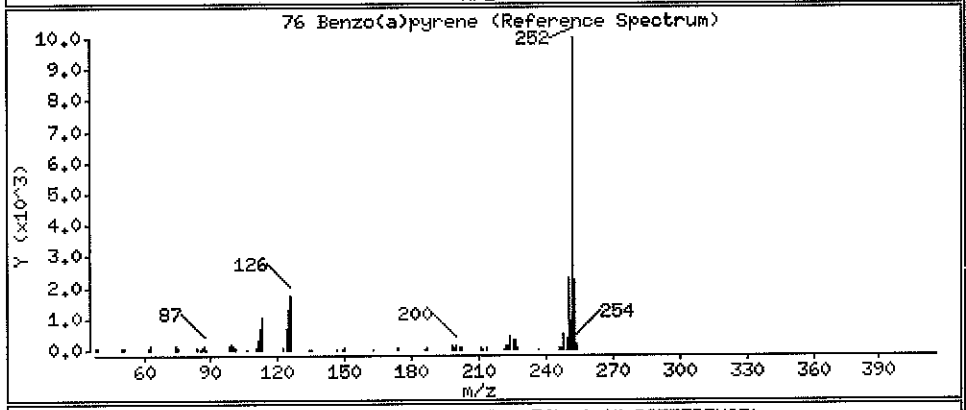
Concentration: 51.73 ug/kg

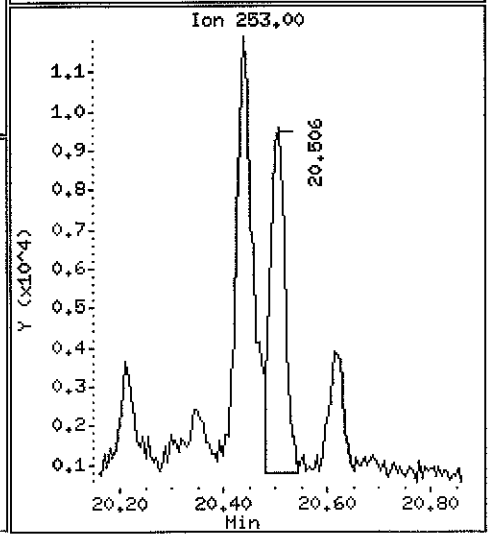


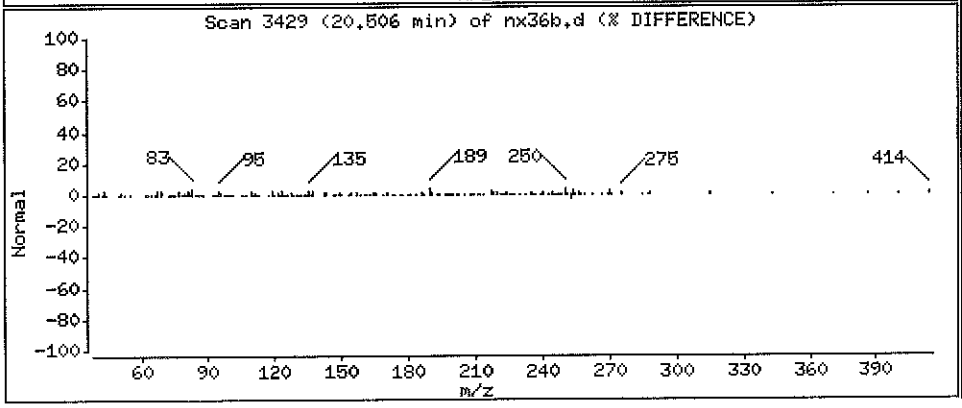












Data File: /chem1/nt6.i/20081114.b/nx36b.d

Date : 14-NOV-2008 21:47

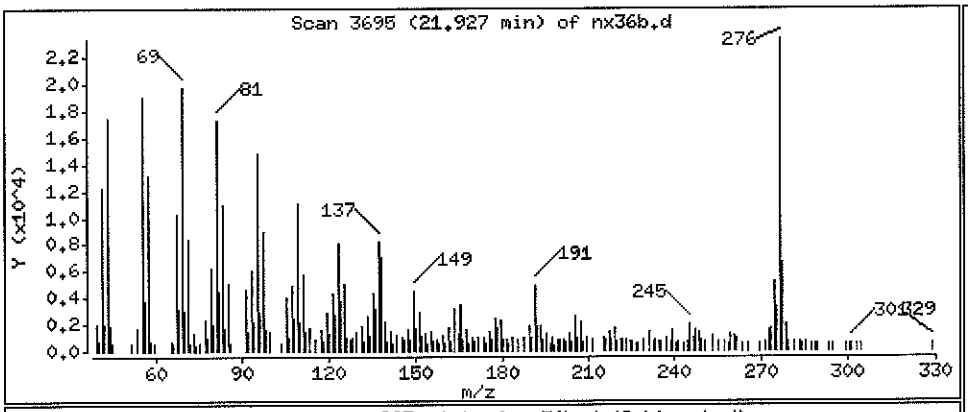
Client ID: EB-SE07-SE-A-081030 Instrument: nt6.i

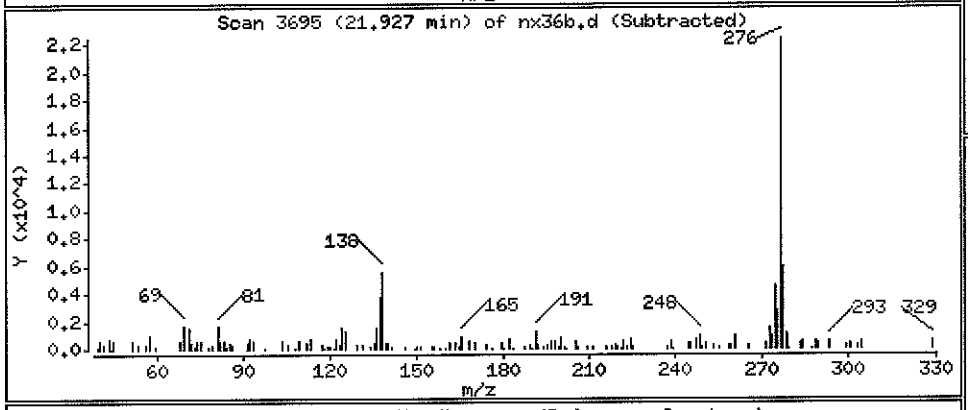
Sample Info: NX36B

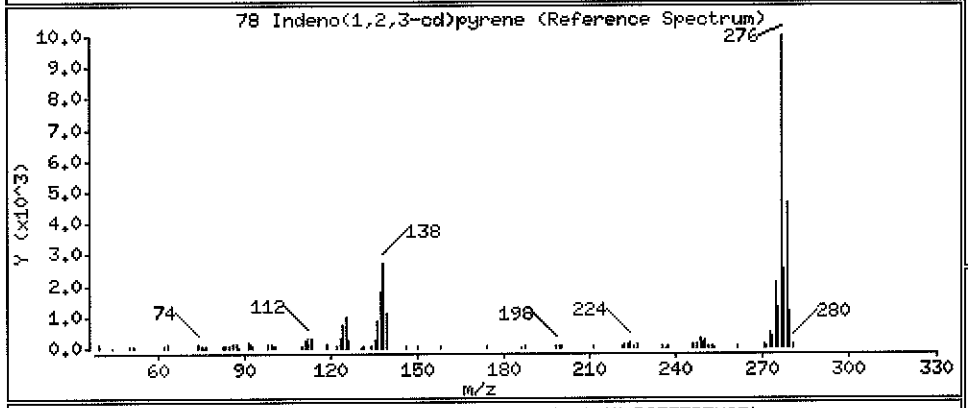
Volume Injected (uL): 1.0 Operator: LJR/VTS

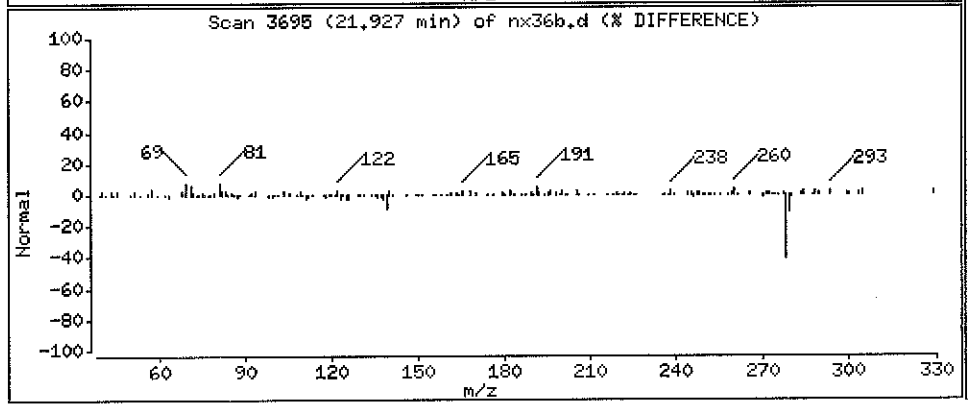
Column phase: ZB-5 Column diameter: 0.32

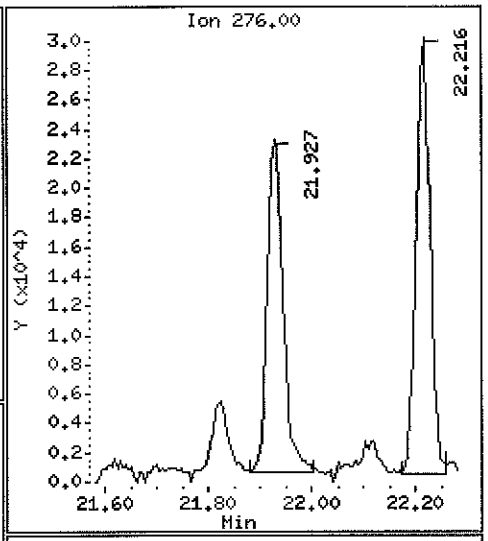
78 Indeno(1,2,3-cd)pyrene Concentration: 30.17 ug/kg

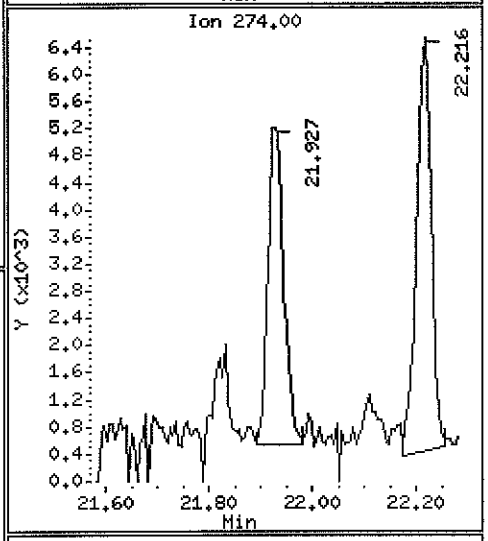


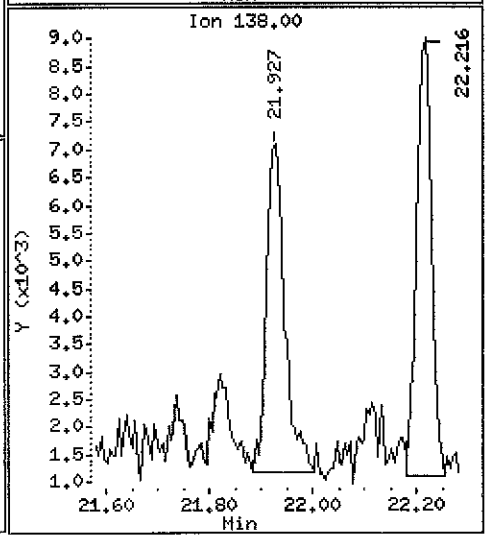












Data File: /chem1/nt6.i/20081114.b/nx36b.d

Date : 14-NOV-2008 21:47

Client ID: EB-SE07-SE-A-081030

Instrument: nt6.i

Sample Info: NX36B

Volume Injected (uL): 1.0

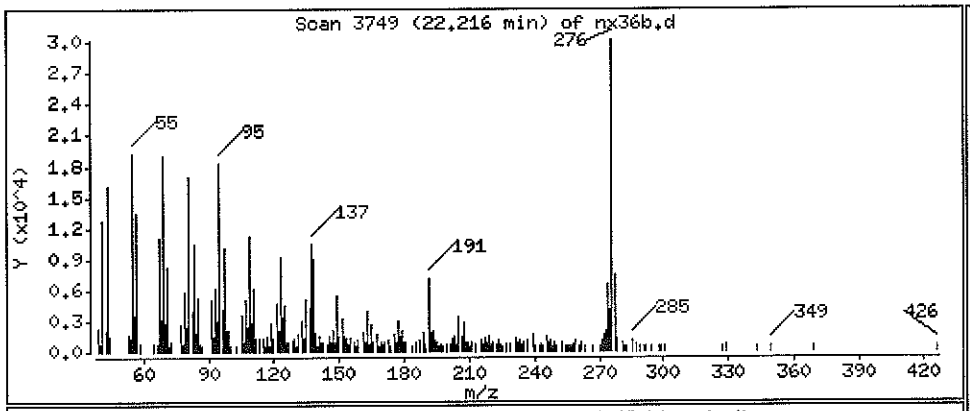
Operator: LJR/VTS

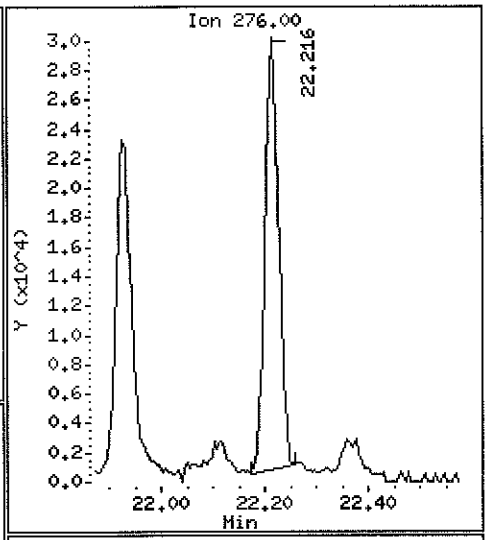
Column phase: ZB-5

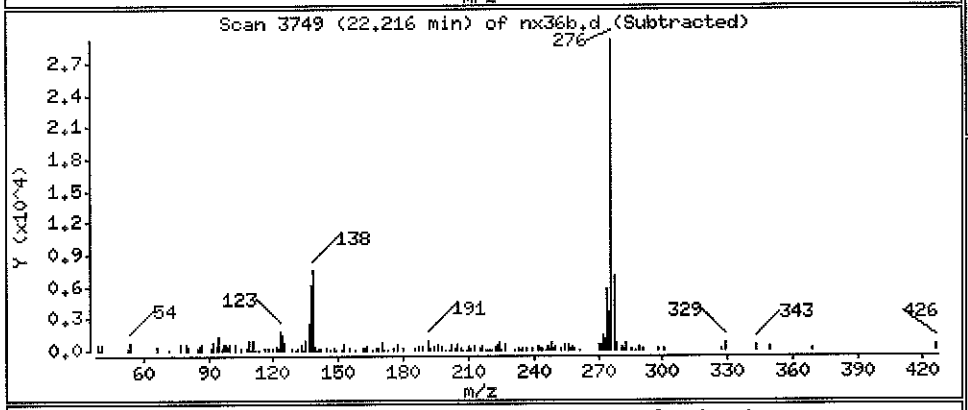
Column diameter: 0.32

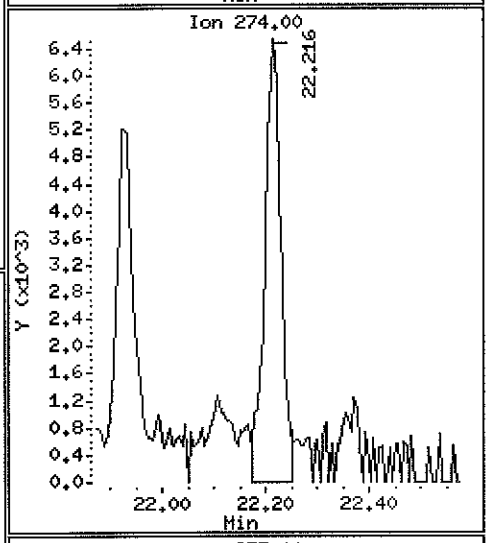
80 Benzo(g,h,i)perylene

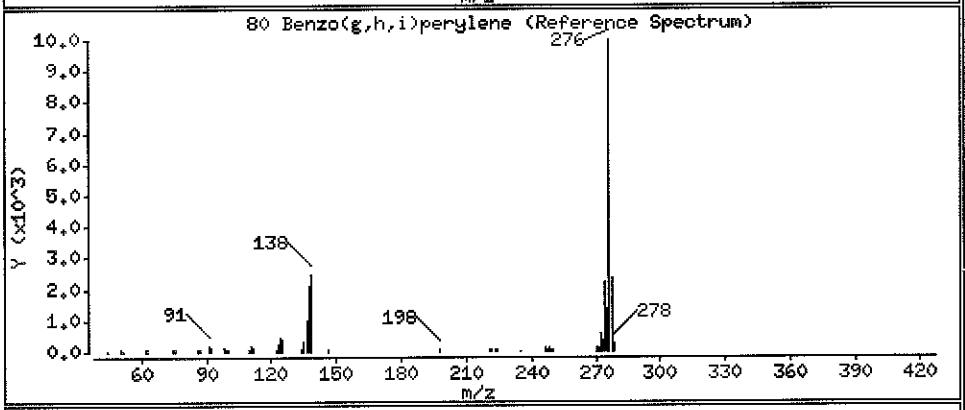
Concentration: 38.94 ug/kg

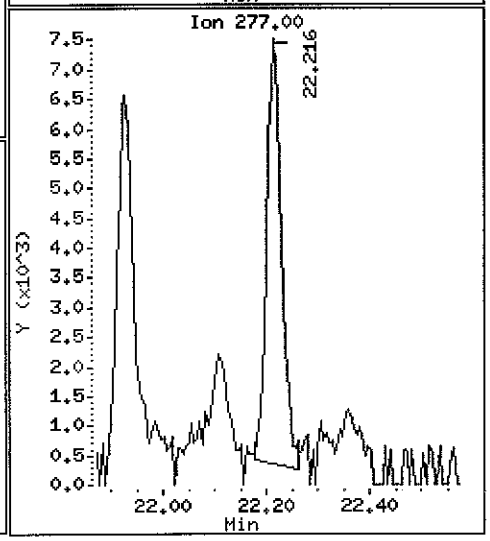


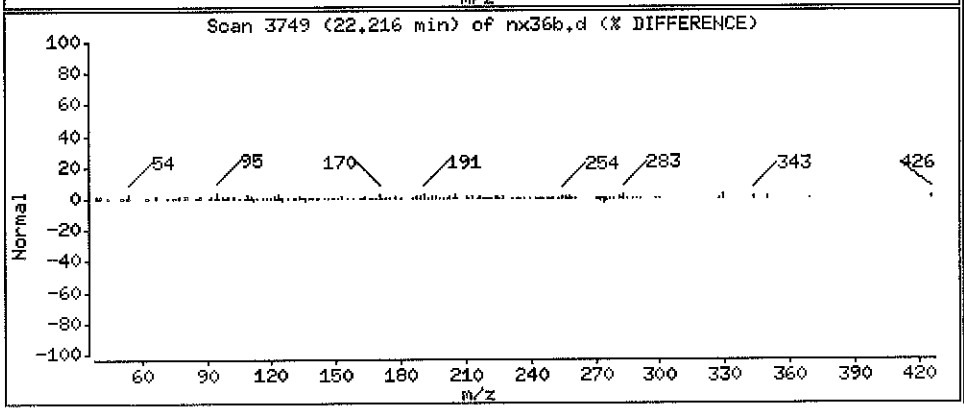












SVOA Analysis
Standard Raw Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NX36

prepared
by

Analytical Resources, Inc.

SEMIVOLATILE 8270-C INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NX36 Project: EDDON BOATYARD

Instrument ID: NT6 Calibration Date: 10/30/08

LAB FILE ID: RRF1 =0011030 RRF5 =0051030 RRF10 =0101030
RRF25 =0251030 RRF40 =0401030 RRF80 =0801030

COMPOUND	RRF 1	RRF 5	RRF 10	RRF 25	RRF 40	RRF 80	___ RRF	%RSD /R^2	
Naphthalene	1.005	1.006	1.185	1.108	1.102	1.073	1.080	6.4	
2-Methylnaphthalene	0.655	0.648	0.614	0.572	0.575	0.562	0.604	6.7	
Acenaphthylene	1.762	1.761	2.104	1.916	1.966	1.860	1.895	6.9	
Acenaphthene	1.070	1.081	1.250	1.161	1.179	1.152	1.149	5.8	*
Dibenzofuran	1.831	1.899	1.786	1.604	1.660	1.605	1.731	7.2	
Fluorene	1.255	1.211	1.444	1.302	1.351	1.304	1.311	6.1	
Phenanthrene	1.170	1.162	1.371	1.250	1.265	1.218	1.239	6.2	
Anthracene	1.207	1.205	1.430	1.306	1.314	1.281	1.290	6.4	
Fluoranthene	1.169	1.250	1.513	1.351	1.426	1.362	1.345	9.1	*
Pyrene	1.196	1.191	1.332	1.295	1.164	1.088	1.211	7.4	
Benzo(a)anthracene	1.163	1.172	1.386	1.294	1.282	1.216	1.252	6.8	
Chrysene	1.184	1.171	1.317	1.231	1.231	1.172	1.218	4.6	
Benzo(b)fluoranthene	1.171	1.180	1.331	1.331	1.351	1.318	1.280	6.4	
Benzo(k)fluoranthene	1.219	1.185	1.483	1.255	1.310	1.276	1.288	8.2	
Benzo(a)pyrene	0.972	1.076	1.257	1.198	1.222	1.181	1.151	9.3	*
Indeno(1,2,3-cd)pyrene	1.247	1.326	1.603	1.663	1.517	1.478	1.472	10.9	
Dibenzo(a,h)anthracene	0.984	1.114	1.354	1.408	1.296	1.262	1.236	12.8	
Benzo(g,h,i)perylene	1.038	1.147	1.361	1.464	1.298	1.268	1.263	12.0	
1-methylnaphthalene	0.520	0.522	0.575	0.540	0.536	0.536	0.538	3.7	
Terphenyl-d14	0.819	0.829	0.911	0.869	0.801	0.760	0.832	6.4	
2-Fluorobiphenyl	1.370	1.371	1.472	1.362	1.360	1.309	1.374	3.9	

* Compounds with maximum %RSD = 30%
~ Compounds with minimum average RRF = .05
<- Outside QC limits

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-OCT-2008 16:58
End Cal Date : 30-OCT-2008 19:50
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20081030.b/SW846.m
Cal Date : 31-Oct-2008 11:27 jeff
Curve Type : Average

Calibration File Names:
Level 1: /chem1/nt6.i/20081030.b/0011030.d
Level 2: /chem1/nt6.i/20081030.b/0051030.d
Level 3: /chem1/nt6.i/20081030.b/0101030.d
Level 4: /chem1/nt6.i/20081030.b/0251030.d
Level 5: /chem1/nt6.i/20081030.b/0401030.d
Level 6: /chem1/nt6.i/20081030.b/0801030.d

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	RRF	% RSD	
179 n-Decane	1.71682	1.76677	1.78742	1.58945	1.66300	1.66383	1.69788	4.348	
180 n-Octadecane	0.64109	0.69796	0.68857	0.63087	0.64708	0.64327	0.65814	4.238	
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
170 N,N-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
171 2,3-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
172 2,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
173 2,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
174 2,6-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
175 3,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
176 3,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
177 p-Benzoquinone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
168 Pentachlorobenzene	0.45520	0.46716	0.54115	0.49466	0.50871	0.48966	0.49276	6.206	
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
147 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
148 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
149 TCMX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
150 DCBP	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-OCT-2008 16:58
End Cal Date : 30-OCT-2008 19:50
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20081030.b/SW846.m
Cal Date : 31-Oct-2008 11:27 jeff
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	RRF	% RSD	
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
142 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
135 2,3,5,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
136 2,3,4,5-tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
133 Butylatedhydroxytoluene	1.02708	1.06755	1.14119	1.09476	1.12534	1.02811	1.08067	4.469	
132 3,6-Dimethylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
144 alpha-Terpineol	0.26267	0.30538	0.31284	0.29870	0.31107	0.30155	0.29870	6.180	
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
123 Acetophenone	1.77491	1.75186	2.05421	1.90156	1.89873	1.89633	1.87960	5.774	
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
143 1,4-Dioxane	0.62874	0.67897	0.82939	0.77106	0.79594	0.78563	0.74829	10.327	
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
120 2,3,4,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
178 2-Benzyl-4-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
119 7,12-Dimethylbenz(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
118 Triphenyl Phosphate	0.21820	0.22658	0.24881	0.23561	0.24207	0.22760	0.23315	4.808	
117 Butyl Diphenyl Phosphate	0.24283	0.27222	0.29098	0.27969	0.27302	0.25753	0.26938	6.299	
116 Dibutyl Phenyl Phosphate	0.55685	0.65506	0.71840	0.65920	0.71216	0.68018	0.66364	8.818	
115 Tributyl Phosphate	1.10376	1.19520	1.25203	1.15486	1.22713	1.16937	1.18373	4.489	
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
113 Diphenyl Oxide	0.87539	0.88343	0.86083	0.78143	0.80007	0.77934	0.83008	5.824	
112 Biphenyl	1.90498	1.82995	1.77089	1.60245	1.66729	1.54053	1.71935	8.130	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-OCT-2008 16:58
End Cal Date : 30-OCT-2008 19:50
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20081030.b/SW846.m
Cal Date : 31-Oct-2008 11:27 jeff
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	RRF	% RSD	
111 Azobenzene (1,2-DP-Hydrazine)	1.59233	1.70273	1.99799	1.81290	1.86310	1.76463	1.78895	7.764	
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
109 3,4,5-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
181 3,4,6-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
108 4,5,6-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
184 3,4-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
107 4,5-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
182 4,6-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
185 4-Chloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
106 Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
105 1-methylnaphthalene	0.52004	0.52189	0.57546	0.53992	0.53580	0.53602	0.53819	3.714	
151 1,2,4,5-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
156 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
157 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
158 Ethion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
159 4-Nonylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
160 Tetraethyl Tin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
161 1,2,3-Trichloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
162 1,2,3,4-Tetrachloronapthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
163 1,2,3,5,8-Pentachloronaphthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
164 1,2,3,4,6,7-Hexachloronaphtha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
165 1,2,3,4,5,6,7-Heptachloronaph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
166 Octachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
167 2,2',4,4',5-Pentabromobipheny	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
3 Phenol	2.11372	2.15536	2.46008	2.22146	2.31697	2.25996	2.25459	5.502	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-OCT-2008 16:58
End Cal Date : 30-OCT-2008 19:50
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20081030.b/SW846.m
Cal Date : 31-Oct-2008 11:27 jeff
Curve Type : Average

	Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	___ RRF	% RSD	
4	Bis(2-Chloroethyl)ether	1.43173	1.46939	1.73562	1.58699	1.62494	1.58986	1.57309	6.982	
6	2-Chlorophenol	1.22336	1.33498	1.53608	1.40787	1.48044	1.43099	1.40229	7.903	
7	1,3-Dichlorobenzene	1.31993	1.38433	1.66867	1.50372	1.56237	1.51453	1.49226	8.371	
9	1,4-Dichlorobenzene	1.37293	1.39942	1.66872	1.52196	1.54255	1.50930	1.50248	7.111	
11	Benzyl alcohol	0.91891	1.04932	1.06493	0.98794	1.03526	1.03830	1.01578	5.317	
12	1,2-Dichlorobenzene	1.24853	1.33598	1.57877	1.42937	1.46164	1.43653	1.41514	7.971	
13	2-Methylphenol	1.26257	1.25916	1.45571	1.36685	1.40929	1.39807	1.35861	5.956	
14	2,2'-oxybis(1-Chloropropane)	1.77926	1.79168	2.14436	1.98764	1.99548	2.01386	1.95205	7.228	
15	4-Methylphenol	1.26668	1.34141	1.52459	1.40859	1.46560	1.46080	1.41128	6.650	
16	N-Nitroso-di-n-propylamine	1.07792	1.16762	1.37517	1.26493	1.29609	1.31148	1.24887	8.638	
17	Hexachloroethane	0.51863	0.60515	0.73575	0.65816	0.67666	0.67059	0.64415	11.538	
19	Nitrobenzene	0.54517	0.51562	0.61421	0.55962	0.56275	0.54853	0.55765	5.802	
20	Isophorone	0.77077	0.83025	0.96624	0.88581	0.89069	0.86931	0.86884	7.523	
21	2-Nitrophenol	+++++	0.18025	0.21736	0.20369	0.21275	0.21583	0.20598	7.442	
22	2,4-Dimethylphenol	0.36370	0.38570	0.45426	0.41361	0.42877	0.41685	0.41048	7.783	
23	Bis(2-Chloroethoxy)methane	0.45734	0.45596	0.53535	0.51098	0.51218	0.50972	0.49692	6.562	
24	Benzoic acid	+++++	0.12566	0.20254	0.21296	0.26781	0.29312	0.22042	29.477	PP
25	2,4-Dichlorophenol	+++++	0.28882	0.31058	0.29785	0.30542	0.29794	0.30012	2.763	
26	1,2,4-Trichlorobenzene	0.31762	0.32063	0.36341	0.33379	0.34100	0.33437	0.33514	4.909	
28	Naphthalene	1.00460	1.00589	1.18548	1.10816	1.10247	1.07342	1.08000	6.367	
29	4-Chloroaniline	+++++	0.50526	0.48071	0.44779	0.42445	0.39571	0.45078	9.669	
30	Hexachlorobutadiene	0.18119	0.17448	0.21142	0.19966	0.19611	0.19304	0.19265	6.866	
31	4-Chloro-3-methylphenol	+++++	0.32281	0.36814	0.34507	0.35404	0.34428	0.34687	4.765	
32	2-Methylnaphthalene	0.65521	0.64844	0.61404	0.57231	0.57462	0.56255	0.60453	6.732	
33	Hexachlorocyclopentadiene	+++++	0.34603	0.46228	0.45044	0.45410	0.44850	0.43227	11.219	
34	2,4,6-Trichlorophenol	+++++	0.37357	0.43344	0.40491	0.42658	0.40548	0.40880	5.724	
35	2,4,5-Trichlorophenol	+++++	0.38995	0.46112	0.42250	0.44963	0.42811	0.43026	6.383	
37	2-Chloronaphthalene	1.14588	1.14179	1.32495	1.23870	1.25455	1.19105	1.21615	5.805	
38	2-Nitroaniline	+++++	0.59220	0.56260	0.51001	0.51861	0.50324	0.53733	7.153	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-OCT-2008 16:58
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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20081030.b/SW846.m
Cal Date : 31-Oct-2008 11:27 jeff
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	RRF	% RSD	
39 Dimethylphthalate	1.27741	1.24482	1.47805	1.34313	1.37385	1.32428	1.34026	6.102	
40 Acenaphthylene	1.76191	1.76149	2.10395	1.91596	1.96635	1.86046	1.89502	6.917	
41 2,6-Dinitrotoluene	+++++	0.26908	0.32536	0.30146	0.31255	0.31170	0.30403	7.006	
43 3-Nitroaniline	+++++	0.36689	0.35141	0.31752	0.29271	0.24174	0.31406	15.827	PP
44 Acenaphthene	1.06990	1.08073	1.25023	1.16101	1.17923	1.15203	1.14885	5.804	
45 2,4-Dinitrophenol	+++++	0.02912	0.09708	0.12901	0.17514	0.19222	0.12451	52.388	<- LIN
46 Dibenzofuran	1.83100	1.89943	1.78559	1.60391	1.66035	1.60495	1.73087	7.234	
47 4-Nitrophenol	+++++	0.20532	0.23960	0.22965	0.25931	0.23450	0.23367	8.324	
48 2,4-Dinitrotoluene	+++++	0.33738	0.42250	0.39509	0.41252	0.40447	0.39439	8.477	
49 Fluorene	1.25514	1.21127	1.44395	1.30258	1.35142	1.30393	1.31138	6.147	
50 Diethylphthalate	1.16444	1.29131	1.49736	1.34848	1.40297	1.32711	1.33861	8.328	
51 4-Chlorophenyl-phenylether	0.64984	0.59456	0.71206	0.64172	0.67235	0.65514	0.65428	5.884	
52 4-Nitroaniline	+++++	0.33709	0.33097	0.30813	0.32249	0.31195	0.32213	3.808	
53 4,6-Dinitro-2-methylphenol	+++++	0.07409	0.14302	0.15689	0.17965	0.18278	0.14728	29.936	PP
54 N-Nitrosodiphenylamine	0.58234	0.60075	0.68546	0.63674	0.64459	0.63173	0.63027	5.705	
56 4-Bromophenyl-phenylether	0.23650	0.25419	0.28155	0.26581	0.26836	0.25846	0.26081	5.821	
57 Hexachlorobenzene	0.23081	0.27877	0.31385	0.28513	0.28391	0.27745	0.27832	9.638	
58 Pentachlorophenol	+++++	0.12907	0.19015	0.18225	0.19892	0.19503	0.17908	15.994	CCC
60 Phenanthrene	1.17008	1.16249	1.37104	1.24966	1.26481	1.21799	1.23935	6.172	
61 Anthracene	1.20704	1.20477	1.42957	1.30639	1.31438	1.28133	1.29058	6.442	
62 Carbazole	0.99584	1.05336	1.24233	1.11898	1.15661	1.13322	1.11672	7.627	
63 Di-n-butylphthalate	1.27450	1.30986	1.60808	1.45213	1.52827	1.43769	1.43509	8.835	
64 Fluoranthene	1.16885	1.24953	1.51314	1.35122	1.42613	1.36224	1.34519	9.125	
65 Pyrene	1.19562	1.19118	1.33248	1.29468	1.16374	1.08811	1.21097	7.361	
67 Butylbenzylphthalate	0.47547	0.52584	0.64902	0.60537	0.59643	0.56573	0.56964	10.849	
68 Benzo(a)anthracene	1.16329	1.17195	1.38582	1.29423	1.28203	1.21587	1.25220	6.793	
70 3,3'-Dichlorobenzidine	+++++	0.53027	0.51247	0.44822	0.44808	0.40359	0.46853	11.086	
71 Chrysene	1.18375	1.17081	1.31716	1.23131	1.23063	1.17186	1.21759	4.602	
72 bis(2-Ethylhexyl)phthalate	0.40863	0.51820	0.61604	0.58904	0.57495	0.55150	0.54306	13.586	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-OCT-2008 16:58
End Cal Date : 30-OCT-2008 19:50
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20081030.b/SW846.m
Cal Date : 31-Oct-2008 11:27 jeff
Curve Type : Average

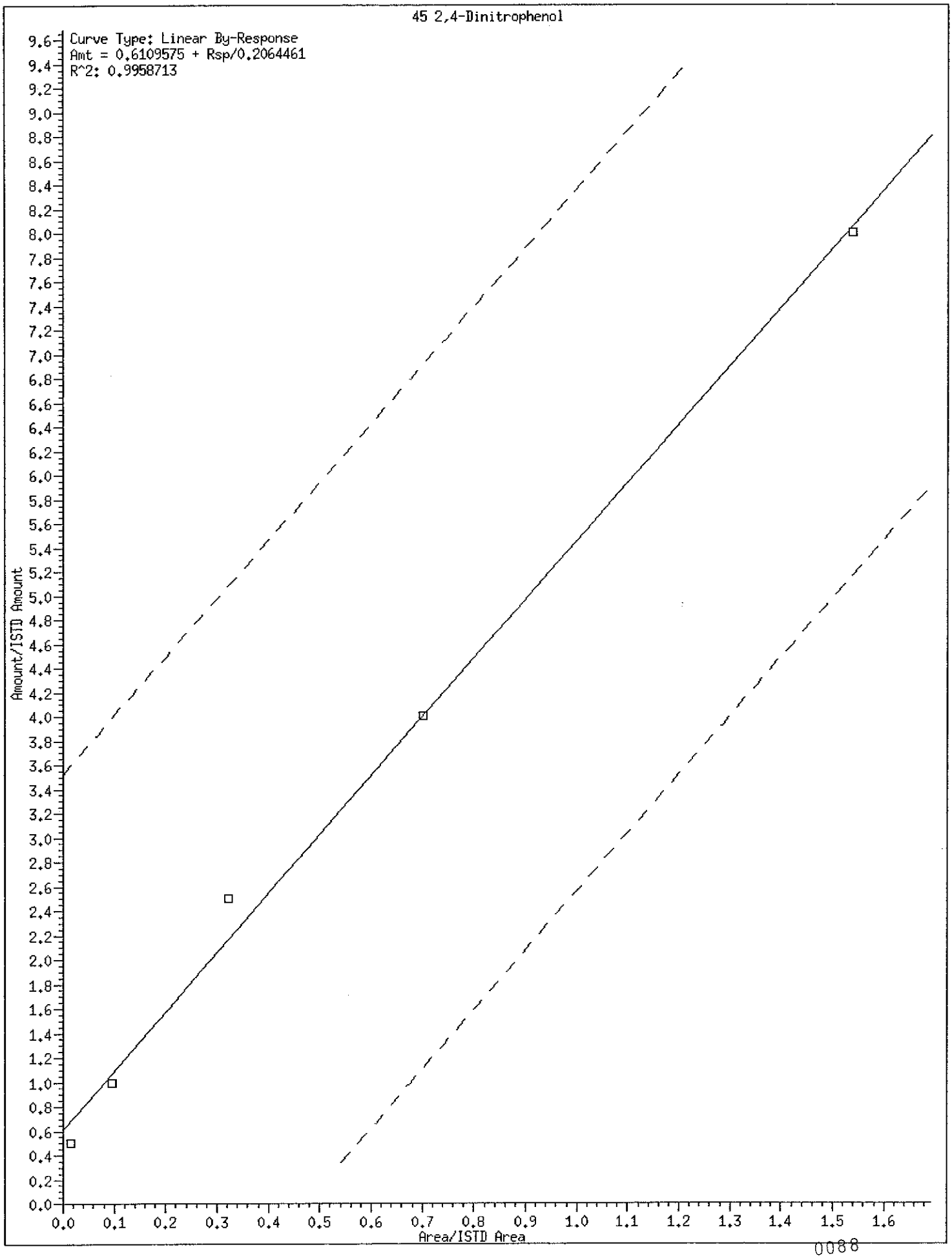
	Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	RRF	% RSD	
	73 Di-n-octylphthalate	1.03673	1.02104	1.17605	1.08945	1.08481	1.01574	1.07064	5.649	
	74 Benzo(b)fluoranthene	1.17146	1.18000	1.33144	1.33107	1.35075	1.31829	1.28050	6.393	
	75 Benzo(k)fluoranthene	1.21869	1.18461	1.48269	1.25495	1.30951	1.27585	1.28772	8.152	
	76 Benzo(a)pyrene	0.97169	1.07563	1.25671	1.19757	1.22176	1.18135	1.15078	9.286	
	78 Indeno(1,2,3-cd)pyrene	1.24747	1.32576	1.60343	1.66333	1.51726	1.47839	1.47261	10.855	
	79 Dibenzo(a,h)anthracene	0.98411	1.11454	1.35374	1.40757	1.29597	1.26248	1.23640	12.829	
	80 Benzo(g,h,i)perylene	1.03789	1.14737	1.36064	1.46450	1.29847	1.26796	1.26280	12.034	
	90 N-Nitrosodimethylamine	+++++	1.05308	1.28527	1.19011	1.19556	1.16693	1.17819	7.062	
	91 Aniline	+++++	2.90320	2.91726	2.66551	2.64152	2.53798	2.73309	6.174	
	92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	93 Benzidine	+++++	0.71190	0.56751	0.51282	0.41368	0.35636	0.51245	27.063	PP
	96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	98 Retene	0.42789	0.44784	0.46521	0.46292	0.44226	0.41235	0.44308	4.605	
	99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
	103 Pyridine	+++++	1.79054	2.05543	2.11014	2.15499	2.14597	2.05141	7.360	
$	1 2-Fluorophenol	+++++	1.38385	1.55800	1.40815	1.44422	1.42790	1.44442	4.665	
$	137 d8-1,4-Dioxane	+++++	0.68764	0.81881	0.75667	0.77052	0.76779	0.76029	6.196	
$	2 Phenol-d5	1.80637	1.88003	2.13082	1.97919	1.97009	1.95489	1.95356	5.580	
$	5 2-Chlorophenol-d4	1.18827	1.27545	1.34200	1.22333	1.25345	1.24796	1.25508	4.139	
$	10 1,2-Dichlorobenzene-d4	0.81340	0.88491	0.95519	0.87509	0.89206	0.89762	0.88638	5.133	
$	18 Nitrobenzene-d5	+++++	0.51184	0.56413	0.51963	0.51970	0.51668	0.52639	4.053	
$	36 2-Fluorobiphenyl	1.36996	1.37109	1.47179	1.36188	1.36009	1.30866	1.37391	3.878	
$	55 2,4,6-Tribromophenol	+++++	0.18115	0.20415	0.18471	0.19576	0.19725	0.19261	4.915	
$	66 Terphenyl-d14	0.81867	0.82926	0.91089	0.86928	0.80096	0.75965	0.83145	6.363	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-OCT-2008 16:58
End Cal Date : 30-OCT-2008 19:50
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20081030.b/SW846.m
Cal Date : 31-Oct-2008 11:27 jeff
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	___ RRF	% RSD	
$ 85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$ 86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$ 87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$ 88 Dibenz(a,h)anthracene-d14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$ 89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$ 95 D10-1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-


45 2,4-Dinitrophenol
Curve Type: Linear By-Response
Amt = 0.6109575 + Rsp/0.2064461
R^2: 0.9958713
Amount/ISTD Amount
Area/ISTD Area

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-OCT-2008 16:58
End Cal Date : 30-OCT-2008 19:50
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20081030.b/SW846.m
Cal Date : 31-Oct-2008 11:27 jeff

Calibration File Names:
Level 1: /chem1/nt6.i/20081030.b/0011030.d
Level 2: /chem1/nt6.i/20081030.b/0051030.d
Level 3: /chem1/nt6.i/20081030.b/0101030.d
Level 4: /chem1/nt6.i/20081030.b/0251030.d
Level 5: /chem1/nt6.i/20081030.b/0401030.d
Level 6: /chem1/nt6.i/20081030.b/0801030.d

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
179 n-Decane	1.71682	1.76677	1.78742	1.58945	1.66300	1.66383	AVRG		1.69788		4.34843	
180 n-Octadecane	0.64109	0.69796	0.68857	0.63087	0.64708	0.64327	AVRG		0.65814		4.23775	
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
170 N,N-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
171 2,3-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
172 2,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
173 2,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
174 2,6-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
175 3,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
176 3,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
177 p-Benzoquinone	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
168 Pentachlorobenzene	0.45520	0.46716	0.54115	0.49466	0.50871	0.48966	AVRG		0.49276		6.20601	
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-OCT-2008 16:58
End Cal Date : 30-OCT-2008 19:50
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20081030.b/SW846.m
Cal Date : 31-Oct-2008 11:27 jeff

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
147 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
148 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
149 TCMX	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
150 DCBP	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
142 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
135 2,3,5,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
136 2,3,4,5-tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
133 Butylatedhydroxytoluene	1.02708	1.06755	1.14119	1.09476	1.12534	1.02811	AVRG		1.08067		4.46926	
132 3,6-Dimethylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
144 alpha-Terpineol	0.26267	0.30538	0.31284	0.29870	0.31107	0.30155	AVRG		0.29870		6.17971	
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-OCT-2008 16:58
End Cal Date : 30-OCT-2008 19:50
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20081030.b/SW846.m
Cal Date : 31-Oct-2008 11:27 jeff

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
123 Acetophenone	1.77491	1.75186	2.05421	1.90156	1.89873	1.89633	AVRG		1.87960		5.77414	
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
143 1,4-Dioxane	0.62874	0.67897	0.82939	0.77106	0.79594	0.78563	AVRG		0.74829		10.32681	
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
120 2,3,4,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
178 2-Benzyl-4-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
119 7,12-Dimethylbenz(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
118 Triphenyl Phosphate	0.21820	0.22658	0.24881	0.23561	0.24207	0.22760	AVRG		0.23315		4.80825	
117 Butyl Diphenyl Phosphate	0.24283	0.27222	0.29098	0.27969	0.27302	0.25753	AVRG		0.26938		6.29911	
116 Dibutyl Phenyl Phosphate	0.55685	0.65506	0.71840	0.65920	0.71216	0.68018	AVRG		0.66364		8.81798	
115 Tributyl Phosphate	1.10376	1.19520	1.25203	1.15486	1.22713	1.16937	AVRG		1.18373		4.48872	
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
113 Diphenyl Oxide	0.87539	0.88343	0.86083	0.78143	0.80007	0.77934	AVRG		0.83008		5.82419	
112 Biphenyl	1.90498	1.82995	1.77089	1.60245	1.66729	1.54053	AVRG		1.71935		8.13011	
111 Azobenzene (1,2-DP-Hydrazine)	1.59233	1.70273	1.99799	1.81290	1.86310	1.76463	AVRG		1.78895		7.76403	
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
109 3,4,5-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
181 3,4,6-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
108 4,5,6-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
184 3,4-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
107 4,5-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
182 4,6-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-OCT-2008 16:58
End Cal Date : 30-OCT-2008 19:50
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20081030.b/SW846.m
Cal Date : 31-Oct-2008 11:27 jeff

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
185 4-Chloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
106 Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
105 1-methylnaphthalene	0.52004	0.52189	0.57546	0.53992	0.53580	0.53602	AVRG		0.53819		3.71409	
151 1,2,4,5-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
156 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
157 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
158 Ethion	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
159 4-Nonylphenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
160 Tetraethyl Tin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
161 1,2,3-Trichloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
162 1,2,3,4-Tetrachloronapthalene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
163 1,2,3,5,8-Pentachloronaphthal	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
164 1,2,3,4,6,7-Hexachloronaphtha	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
165 1,2,3,4,5,6,7-Heptachloronaph	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
166 Octachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
167 2,2',4,4',5-Pentabromobipheny	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
3 Phenol	2.11372	2.15536	2.46008	2.22146	2.31697	2.25996	AVRG		2.25459		5.50183	
4 Bis(2-Chloroethyl)ether	1.43173	1.46939	1.73562	1.58699	1.62494	1.58986	AVRG		1.57309		6.98193	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-OCT-2008 16:58
End Cal Date : 30-OCT-2008 19:50
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20081030.b/SW846.m
Cal Date : 31-Oct-2008 11:27 jeff

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
6 2-Chlorophenol	1.22336	1.33498	1.53608	1.40787	1.48044	1.43099	AVRG		1.40229		7.90292
7 1,3-Dichlorobenzene	1.31993	1.38433	1.66867	1.50372	1.56237	1.51453	AVRG		1.49226		8.37050
9 1,4-Dichlorobenzene	1.37293	1.39942	1.66872	1.52196	1.54255	1.50930	AVRG		1.50248		7.11077
11 Benzyl alcohol	0.91891	1.04932	1.06493	0.98794	1.03526	1.03830	AVRG		1.01578		5.31711
12 1,2-Dichlorobenzene	1.24853	1.33598	1.57877	1.42937	1.46164	1.43653	AVRG		1.41514		7.97111
13 2-Methylphenol	1.26257	1.25916	1.45571	1.36685	1.40929	1.39807	AVRG		1.35861		5.95575
14 2,2'-oxybis(1-Chloropropane)	1.77926	1.79168	2.14436	1.98764	1.99548	2.01386	AVRG		1.95205		7.22772
15 4-Methylphenol	1.26668	1.34141	1.52459	1.40859	1.46560	1.46080	AVRG		1.41128		6.64990
16 N-Nitroso-di-n-propylamine	1.07792	1.16762	1.37517	1.26493	1.29609	1.31148	AVRG		1.24887		8.63783
17 Hexachloroethane	0.51863	0.60515	0.73575	0.65816	0.67666	0.67059	AVRG		0.64415		11.53794
19 Nitrobenzene	0.54517	0.51562	0.61421	0.55962	0.56275	0.54853	AVRG		0.55765		5.80242
20 Isophorone	0.77077	0.83025	0.96624	0.88581	0.89069	0.86931	AVRG		0.86884		7.52261
21 2-Nitrophenol	+++++	0.18025	0.21736	0.20369	0.21275	0.21583	AVRG		0.20598		7.44205
22 2,4-Dimethylphenol	0.36370	0.38570	0.45426	0.41361	0.42877	0.41685	AVRG		0.41048		7.78316
23 Bis(2-Chloroethoxy)methane	0.45734	0.45596	0.53535	0.51098	0.51218	0.50972	AVRG		0.49692		6.56178
24 Benzoic acid	+++++	0.12566	0.20254	0.21296	0.26781	0.29312	AVRG		0.22042		29.47657
25 2,4-Dichlorophenol	+++++	0.28882	0.31058	0.29785	0.30542	0.29794	AVRG		0.30012		2.76301
26 1,2,4-Trichlorobenzene	0.31762	0.32063	0.36341	0.33379	0.34100	0.33437	AVRG		0.33514		4.90887
28 Naphthalene	1.00460	1.00589	1.18548	1.10816	1.10247	1.07342	AVRG		1.08000		6.36718
29 4-Chloroaniline	+++++	0.50526	0.48071	0.44779	0.42445	0.39571	AVRG		0.45078		9.66869
30 Hexachlorobutadiene	0.18119	0.17448	0.21142	0.19966	0.19611	0.19304	AVRG		0.19265		6.86643
31 4-Chloro-3-methylphenol	+++++	0.32281	0.36814	0.34507	0.35404	0.34428	AVRG		0.34687		4.76470

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-OCT-2008 16:58
End Cal Date : 30-OCT-2008 19:50
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20081030.b/SW846.m
Cal Date : 31-Oct-2008 11:27 jeff

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
32 2-Methylnaphthalene	0.65521	0.64844	0.61404	0.57231	0.57462	0.56255	AVRG		0.60453		6.73242	
33 Hexachlorocyclopentadiene	+++++	0.34603	0.46228	0.45044	0.45410	0.44850	AVRG		0.43227		11.21941	
34 2,4,6-Trichlorophenol	+++++	0.37357	0.43344	0.40491	0.42658	0.40548	AVRG		0.40880		5.72380	
35 2,4,5-Trichlorophenol	+++++	0.38995	0.46112	0.42250	0.44963	0.42811	AVRG		0.43026		6.38275	
37 2-Chloronaphthalene	1.14588	1.14179	1.32495	1.23870	1.25455	1.19105	AVRG		1.21615		5.80461	
38 2-Nitroaniline	+++++	0.59220	0.56260	0.51001	0.51861	0.50324	AVRG		0.53733		7.15285	
39 Dimethylphthalate	1.27741	1.24482	1.47805	1.34313	1.37385	1.32428	AVRG		1.34026		6.10161	
40 Acenaphthylene	1.76191	1.76149	2.10395	1.91596	1.96635	1.86046	AVRG		1.89502		6.91750	
41 2,6-Dinitrotoluene	+++++	0.26908	0.32536	0.30146	0.31255	0.31170	AVRG		0.30403		7.00564	
43 3-Nitroaniline	+++++	0.36689	0.35141	0.31752	0.29271	0.24174	AVRG		0.31406		15.82748	
44 Acenaphthene	1.06990	1.08073	1.25023	1.16101	1.17923	1.15203	AVRG		1.14885		5.80414	
45 2,4-Dinitrophenol	+++++	2222	14233	47458	96307	230542	LINR	0.61096	0.20645		0.99587	<-
46 Dibenzofuran	1.83100	1.89943	1.78559	1.60391	1.66035	1.60495	AVRG		1.73087		7.23351	
47 4-Nitrophenol	+++++	0.20532	0.23960	0.22965	0.25931	0.23450	AVRG		0.23367		8.32442	
48 2,4-Dinitrotoluene	+++++	0.33738	0.42250	0.39509	0.41252	0.40447	AVRG		0.39439		8.47687	
49 Fluorene	1.25514	1.21127	1.44395	1.30258	1.35142	1.30393	AVRG		1.31138		6.14743	
50 Diethylphthalate	1.16444	1.29131	1.49736	1.34848	1.40297	1.32711	AVRG		1.33861		8.32836	
51 4-Chlorophenyl-phenylether	0.64984	0.59456	0.71206	0.64172	0.67235	0.65514	AVRG		0.65428		5.88364	
52 4-Nitroaniline	+++++	0.33709	0.33097	0.30813	0.32249	0.31195	AVRG		0.32213		3.80769	
53 4,6-Dinitro-2-methylphenol	+++++	0.07409	0.14302	0.15689	0.17965	0.18278	AVRG		0.14728		29.93551	
54 N-Nitrosodiphenylamine	0.58234	0.60075	0.68546	0.63674	0.64459	0.63173	AVRG		0.63027		5.70472	
56 4-Bromophenyl-phenylether	0.23650	0.25419	0.28155	0.26581	0.26836	0.25846	AVRG		0.26081		5.82149	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-OCT-2008 16:58
End Cal Date : 30-OCT-2008 19:50
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20081030.b/SW846.m
Cal Date : 31-Oct-2008 11:27 jeff

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
57 Hexachlorobenzene	0.23081	0.27877	0.31385	0.28513	0.28391	0.27745	AVRG		0.27832		9.63828
58 Pentachlorophenol	+++++	0.12907	0.19015	0.18225	0.19892	0.19503	AVRG		0.17908		15.99376
60 Phenanthrene	1.17008	1.16249	1.37104	1.24966	1.26481	1.21799	AVRG		1.23935		6.17222
61 Anthracene	1.20704	1.20477	1.42957	1.30639	1.31438	1.28133	AVRG		1.29058		6.44228
62 Carbazole	0.99584	1.05336	1.24233	1.11898	1.15661	1.13322	AVRG		1.11672		7.62716
63 Di-n-butylphthalate	1.27450	1.30986	1.60808	1.45213	1.52827	1.43769	AVRG		1.43509		8.83487
64 Fluoranthene	1.16885	1.24953	1.51314	1.35122	1.42613	1.36224	AVRG		1.34519		9.12466
65 Pyrene	1.19562	1.19118	1.33248	1.29468	1.16374	1.08811	AVRG		1.21097		7.36065
67 Butylbenzylphthalate	0.47547	0.52584	0.64902	0.60537	0.59643	0.56573	AVRG		0.56964		10.84945
68 Benzo(a)anthracene	1.16329	1.17195	1.38582	1.29423	1.28203	1.21587	AVRG		1.25220		6.79286
70 3,3'-Dichlorobenzidine	+++++	0.53027	0.51247	0.44822	0.44808	0.40359	AVRG		0.46853		11.08577
71 Chrysene	1.18375	1.17081	1.31716	1.23131	1.23063	1.17186	AVRG		1.21759		4.60178
72 bis(2-Ethylhexyl)phthalate	0.40863	0.51820	0.61604	0.58904	0.57495	0.55150	AVRG		0.54306		13.58634
73 Di-n-octylphthalate	1.03673	1.02104	1.17605	1.08945	1.08481	1.01574	AVRG		1.07064		5.64887
74 Benzo(b)fluoranthene	1.17146	1.18000	1.33144	1.33107	1.35075	1.31829	AVRG		1.28050		6.39271
75 Benzo(k)fluoranthene	1.21869	1.18461	1.48269	1.25495	1.30951	1.27585	AVRG		1.28772		8.15200
76 Benzo(a)pyrene	0.97169	1.07563	1.25671	1.19757	1.22176	1.18135	AVRG		1.15078		9.28641
78 Indeno(1,2,3-cd)pyrene	1.24747	1.32576	1.60343	1.66333	1.51726	1.47839	AVRG		1.47261		10.85523
79 Dibenzo(a,h)anthracene	0.98411	1.11454	1.35374	1.40757	1.29597	1.26248	AVRG		1.23640		12.82883
80 Benzo(g,h,i)perylene	1.03789	1.14737	1.36064	1.46450	1.29847	1.26796	AVRG		1.26280		12.03368
90 N-Nitrosodimethylamine	+++++	1.05308	1.28527	1.19011	1.19556	1.16693	AVRG		1.17819		7.06180
91 Aniline	+++++	2.90320	2.91726	2.66551	2.64152	2.53798	AVRG		2.73309		6.17354

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-OCT-2008 16:58
End Cal Date : 30-OCT-2008 19:50
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20081030.b/SW846.m
Cal Date : 31-Oct-2008 11:27 jeff

	Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
92	1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
93	Benzidine	+++++	0.71190	0.56751	0.51282	0.41368	0.35636	AVRG		0.51245		27.06252	
96	p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
97	Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
98	Retene	0.42789	0.44784	0.46521	0.46292	0.44226	0.41235	AVRG		0.44308		4.60489	
99	Perylene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
100	3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
101	Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
102	beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
103	Pyridine	+++++	1.79054	2.05543	2.11014	2.15499	2.14597	AVRG		2.05141		7.36025	
$ 1	2-Fluorophenol	+++++	1.38385	1.55800	1.40815	1.44422	1.42790	AVRG		1.44442		4.66460	
$ 137	d8-1,4-Dioxane	+++++	0.68764	0.81881	0.75667	0.77052	0.76779	AVRG		0.76029		6.19624	
$ 2	Phenol-d5	1.80637	1.88003	2.13082	1.97919	1.97009	1.95489	AVRG		1.95356		5.58046	
$ 5	2-Chlorophenol-d4	1.18827	1.27545	1.34200	1.22333	1.25345	1.24796	AVRG		1.25508		4.13935	
$ 10	1,2-Dichlorobenzene-d4	0.81340	0.88491	0.95519	0.87509	0.89206	0.89762	AVRG		0.88638		5.13279	
$ 18	Nitrobenzene-d5	+++++	0.51184	0.56413	0.51963	0.51970	0.51668	AVRG		0.52639		4.05296	
$ 36	2-Fluorobiphenyl	1.36996	1.37109	1.47179	1.36188	1.36009	1.30866	AVRG		1.37391		3.87841	
$ 55	2,4,6-Tribromophenol	+++++	0.18115	0.20415	0.18471	0.19576	0.19725	AVRG		0.19261		4.91453	
$ 66	Terphenyl-d14	0.81867	0.82926	0.91089	0.86928	0.80096	0.75965	AVRG		0.83145		6.36346	
$ 85	p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
$ 86	Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-OCT-2008 16:58
End Cal Date : 30-OCT-2008 19:50
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20081030.b/SW846.m
Cal Date : 31-Oct-2008 11:27 jeff

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
$ 87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
$ 88 Dibenz(a,h)anthracene-d14	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
$ 89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
$ 95 D10-1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-OCT-2008 16:58
End Cal Date : 30-OCT-2008 19:50
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20081030.b/SW846.m
Cal Date : 31-Oct-2008 11:27 jeff

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20081030.b/0011030.d
Lab Smp Id: ABN 1
Inj Date : 30-OCT-2008 18:07
Operator : LJR/VTS
Smp Info : ABN 1
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20081030.b/SW846.m
Meth Date : 31-Oct-2008 11:28 jeff
Cal Date : 30-OCT-2008 17:32
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: cserv3

Inst ID: nt6.i

LJR 10/31/08

Quant Type: ISTD
Cal File: 0801030.d
Calibration Sample, Level: 1

Compound Sublist: ICAL.sub

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.149	6.159	(0.756)	5097	1.00000	0.8540
$	2 Phenol-d5	99	7.683	7.713	(0.945)	7464	1.00000	0.9247
	3 Phenol	94	7.699	7.734	(0.947)	8734	1.00000	0.9375
$	5 2-Chlorophenol-d4	132	7.822	7.841	(0.962)	4910	1.00000	0.9468
	4 Bis(2-Chloroethyl)ether	93	7.800	7.820	(0.959)	5916	1.00000	0.9101
	6 2-Chlorophenol	128	7.848	7.863	(0.965)	5055	1.00000	0.8724
	7 1,3-Dichlorobenzene	146	8.073	8.082	(0.993)	5454	1.00000	0.8845
*	8 1,4-Dichlorobenzene-d4	152	8.131	8.146	(1.000)	82641	20.0000	
	9 1,4-Dichlorobenzene	146	8.158	8.173	(1.003)	5673	1.00000	0.9138
$	10 1,2-Dichlorobenzene-d4	152	8.436	8.445	(1.037)	3361	1.00000	0.9177 (M)
	12 1,2-Dichlorobenzene	146	8.457	8.466	(1.040)	5159	1.00000	0.8823
	11 Benzyl alcohol	108	8.415	8.434	(1.035)	3797	1.00000	0.9046
	14 2,2'-oxybis(1-Chloropropane)	45	8.676	8.691	(1.067)	7352	1.00000	0.9115
	13 2-Methylphenol	108	8.639	8.664	(1.062)	5217	1.00000	0.9293
	17 Hexachloroethane	117	8.943	8.952	(1.100)	2143	1.00000	0.8051
	16 N-Nitroso-di-n-propylamine	70	8.890	8.926	(1.093)	4454	1.00000	0.8631
	15 4-Methylphenol	108	8.869	8.904	(1.091)	5234	1.00000	0.8975
$	18 Nitrobenzene-d5	82	9.066	9.091	(0.890)	7177	1.00000	0.9520
	19 Nitrobenzene	77	9.093	9.118	(0.892)	7808	1.00000	0.9776
	20 Isophorone	82	9.478	9.508	(0.930)	11039	1.00000	0.8871
	21 2-Nitrophenol	139	9.617	9.631	(0.944)	2359	1.00000	0.7997
	22 2,4-Dimethylphenol	107	9.718	9.738	(0.954)	5209	1.00000	0.8860
	23 Bis(2-Chloroethoxy)methane	93	9.873	9.893	(0.969)	6550	1.00000	0.9203
	24 Benzoic acid	105	9.798	10.058	(0.962)	1203	5.00000	0.3811
	25 2,4-Dichlorophenol	162	9.996	10.016	(0.981)	3850	1.00000	0.8957
	26 1,2,4-Trichlorobenzene	180	10.129	10.144	(0.994)	4549	1.00000	0.9477

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	27 Naphthalene-d8	136	10.188	10.197	(1.000)	286442	20.0000	
	28 Naphthalene	128	10.220	10.235	(1.003)	14388	1.00000	0.9302
	29 4-Chloroaniline	127	10.364	10.379	(1.017)	7709	1.00000	1.194
	30 Hexachlorobutadiene	225	10.541	10.550	(1.035)	2595	1.00000	0.9405
	31 4-Chloro-3-methylphenol	107	11.166	11.185	(1.096)	4194	1.00000	0.8442
	32 2-Methylnaphthalene	141	11.347	11.362	(1.114)	9384	1.00000	1.084
	33 Hexachlorocyclopentadiene	237	11.732	11.736	(0.898)	2061	1.00000	0.6322
	34 2,4,6-Trichlorophenol	196	11.860	11.875	(0.908)	2222	1.00000	0.7207
	35 2,4,5-Trichlorophenol	196	11.914	11.928	(0.912)	2412	1.00000	0.7433 (M)
$	36 2-Fluorobiphenyl	172	11.994	12.008	(0.918)	10332	1.00000	0.9971
	37 2-Chloronaphthalene	162	12.133	12.147	(0.928)	8642	1.00000	0.9422
	38 2-Nitroaniline	65	12.368	12.387	(0.946)	3466	1.00000	0.8553
	39 Dimethylphthalate	163	12.736	12.767	(0.975)	9634	1.00000	0.9531
	40 Acenaphthylene	152	12.811	12.826	(0.980)	13288	1.00000	0.9298
	41 2,6-Dinitrotoluene	165	12.832	12.858	(0.982)	1448	1.00000	0.6315
*	42 Acenaphthene-d10	164	13.068	13.077	(1.000)	150836	20.0000	
	43 3-Nitroaniline	138	13.041	13.071	(0.998)	2324	1.00000	0.9812 (M)
	44 Acenaphthene	153	13.116	13.135	(1.004)	8069	1.00000	0.9313
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	13.383	13.397	(1.024)	13809	1.00000	1.058
	47 4-Nitrophenol	109	13.329	13.360	(1.020)	209	1.00000	0.1186 (M)
	48 2,4-Dinitrotoluene	165	13.458	13.488	(1.030)	2068	1.00000	0.6953
	50 Diethylphthalate	149	13.896	13.921	(1.063)	8782	1.00000	0.8699
	49 Fluorene	166	13.938	13.958	(1.067)	9466	1.00000	0.9571
	51 4-Chlorophenyl-phenylether	204	13.965	13.979	(1.069)	4901	1.00000	0.9932
	52 4-Nitroaniline	138	14.040	14.086	(1.074)	1887	1.00000	0.7767
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	14.168	14.193	(0.917)	6146	1.00000	0.9240
$	55 2,4,6-Tribromophenol	330	14.366	14.380	(1.099)	709	1.00000	0.4881
	56 4-Bromophenyl-phenylether	248	14.756	14.765	(0.955)	2496	1.00000	0.9068
	57 Hexachlorobenzene	284	14.975	14.989	(0.969)	2436	1.00000	0.8293
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	15.455	15.470	(1.000)	211079	20.0000	
	60 Phenanthrene	178	15.488	15.513	(1.002)	12349	1.00000	0.9441
	61 Anthracene	178	15.562	15.587	(1.007)	12739	1.00000	0.9353
	62 Carbazole	167	15.845	15.865	(1.025)	10510	1.00000	0.8917
	63 Di-n-butylphthalate	149	16.561	16.576	(1.072)	13451	1.00000	0.8881
	64 Fluoranthene	202	17.437	17.452	(1.128)	12336	1.00000	0.8689
	65 Pyrene	202	17.795	17.815	(0.899)	13496	1.00000	0.9873
$	66 Terphenyl-d14	244	18.111	18.125	(0.915)	9241	1.00000	0.9846
	67 Butylbenzylphthalate	149	18.992	19.006	(0.960)	5367	1.00000	0.8347
	68 Benzo(a)anthracene	228	19.767	19.781	(0.999)	13131	1.00000	0.9290
*	69 Chrysene-d12	240	19.788	19.808	(1.000)	225757	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.772	19.792	(0.999)	5323	1.00000	1.006
	71 Chrysene	228	19.831	19.856	(1.002)	13362	1.00000	0.9722
	72 bis(2-Ethylhexyl)phthalate	149	19.991	20.000	(0.955)	6924	1.00000	0.7525
*	134 Di-n-octylphthalate-d4	153	20.926	20.935	(1.000)	338891	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
73	Di-n-octylphthalate	149	20.937	20.946	(1.000)	17567	1.00000	0.9683
74	Benzo(b)fluoranthene	252	21.423	21.453	(0.976)	15751	1.00000	0.9148
75	Benzo(k)fluoranthene	252	21.455	21.496	(0.977)	16386	1.00000	0.9464
76	Benzo(a)pyrene	252	21.871	21.902	(0.996)	13065	1.00000	0.8444
* 77	Perylene-d12	264	21.957	21.971	(1.000)	268912	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	23.511	23.563	(1.071)	16773	1.00000	0.8471 (M)
79	Dibenzo(a,h)anthracene	278	23.538	23.590	(1.072)	13232	1.00000	0.7959
80	Benzo(g,h,i)perylene	276	23.944	24.017	(1.091)	13955	1.00000	0.8219
90	N-Nitrosodimethylamine	74	3.505	3.541	(0.431)	4061	1.00000	0.8342
103	Pyridine	79	3.607	3.487	(0.444)	5551	1.00000	0.6549 (M)
91	Aniline	93	7.683	7.697	(0.945)	12180	1.00000	1.079
105	1-methylnaphthalene	141	11.524	11.533	(1.131)	7448	1.00000	0.9663
93	Benzidine	184	17.694	17.703	(0.894)	6714	1.00000	1.161
111	Azobenzene (1,2-DP-Hydrazine)	77	14.211	14.236	(1.087)	12009	1.00000	0.8901
143	1,4-Dioxane	88	2.784	2.793	(0.342)	2598	1.00000	0.8402
$ 137	d8-1,4-Dioxane	96	2.736	2.740	(0.336)	2467	1.00000	0.7853
144	alpha-Terpineol	59	10.242	10.261	(1.005)	3762	1.00000	0.8794
98	Retene	219	18.356	18.371	(0.928)	4830	1.00000	0.9657
133	Butylatedhydroxytoluene	205	13.244	13.253	(1.013)	7746	1.00000	0.9504
115	Tributyl Phosphate	99	14.259	14.295	(0.923)	11649	1.00000	0.9324
116	Dibutyl Phenyl Phosphate	175	16.006	16.015	(1.036)	5877	1.00000	0.8391
117	Butyl Diphenyl Phosphate	94	17.699	17.714	(0.894)	2741	1.00000	0.9014
118	Triphenyl Phosphate	326	19.313	19.327	(0.976)	2463	1.00000	0.9359
123	Acetophenone	105	8.831	8.856	(1.086)	7334	1.00000	0.9443
179	n-Decane	57	7.960	7.975	(0.979)	7094	1.00000	1.011
180	n-Octadecane	57	15.365	15.374	(0.994)	6766	1.00000	0.9741
168	Pentachlorobenzene	250	13.420	13.440	(1.027)	3433	1.00000	0.9238
113	Diphenyl Oxide	170	12.320	12.334	(0.943)	6602	1.00000	1.055
112	Biphenyl	154	12.127	12.147	(0.928)	14367	1.00000	1.108

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 0011030.d
Lab Smp Id: ABN 1
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20081030.b/SW846.m
Misc Info:

Calibration Date: 30-OCT-2008
Calibration Time: 16:58
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	81566	40783	163132	82641	1.32
27 Naphthalene-d8	282544	141272	565088	286442	1.38
42 Acenaphthene-d10	147142	73571	294284	150836	2.51
59 Phenanthrene-d10	207740	103870	415480	211079	1.61
69 Chrysene-d12	219615	109808	439230	225757	2.80
134 Di-n-octylphthala	314948	157474	629896	338891	7.60
77 Perylene-d12	251306	125653	502612	268912	7.01

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.14	7.64	8.64	8.13	-0.07
27 Naphthalene-d8	10.19	9.69	10.69	10.19	-0.06
42 Acenaphthene-d10	13.07	12.57	13.57	13.07	-0.04
59 Phenanthrene-d10	15.46	14.96	15.96	15.46	-0.04
69 Chrysene-d12	19.79	19.29	20.29	19.79	-0.03
134 Di-n-octylphthala	20.93	20.43	21.43	20.93	0.00
77 Perylene-d12	21.96	21.46	22.46	21.96	-0.03

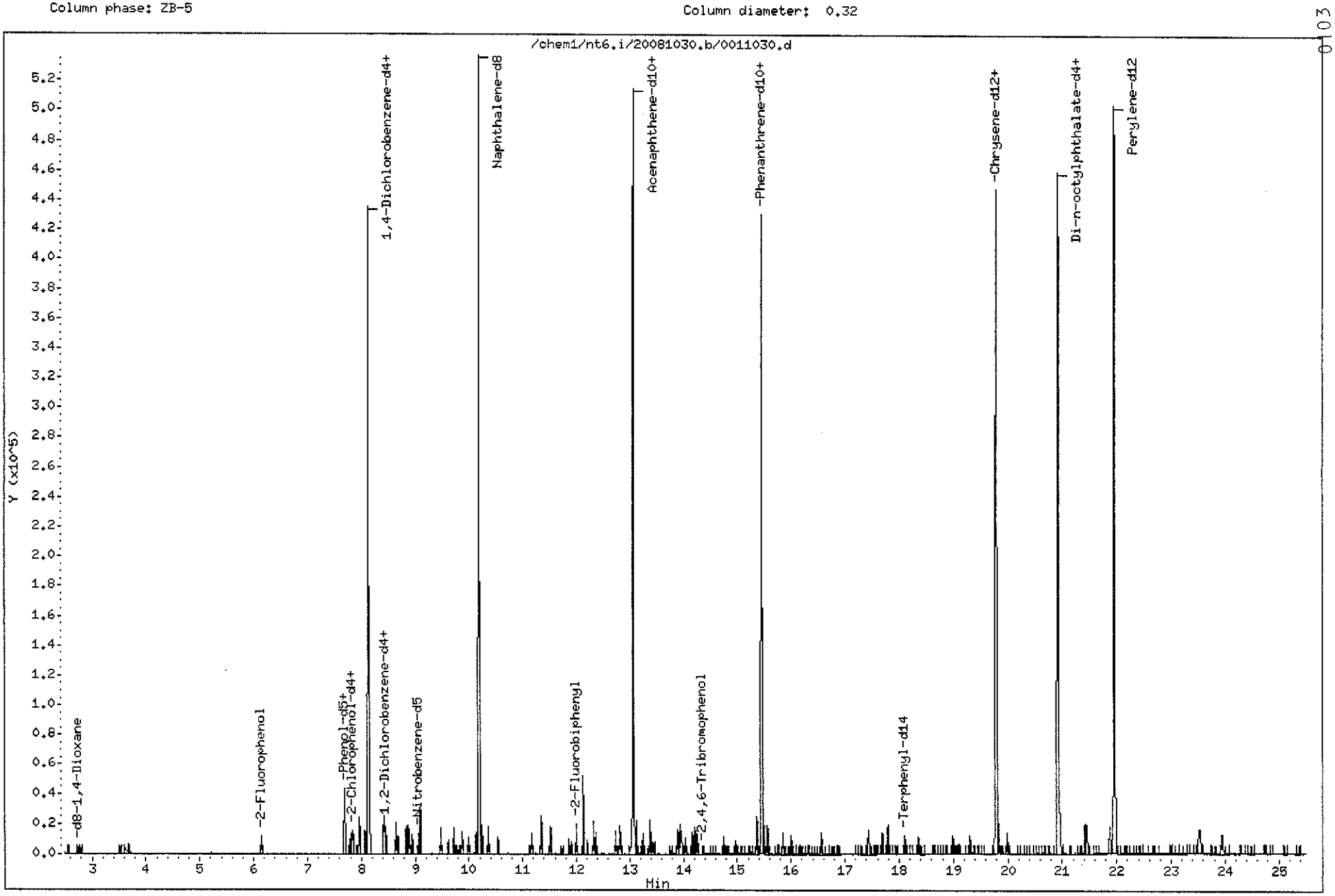
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt6.i/20081030.b/0011030.d
Date : 30-OCT-2008 18:07
Client ID:
Sample Info: ABN 1

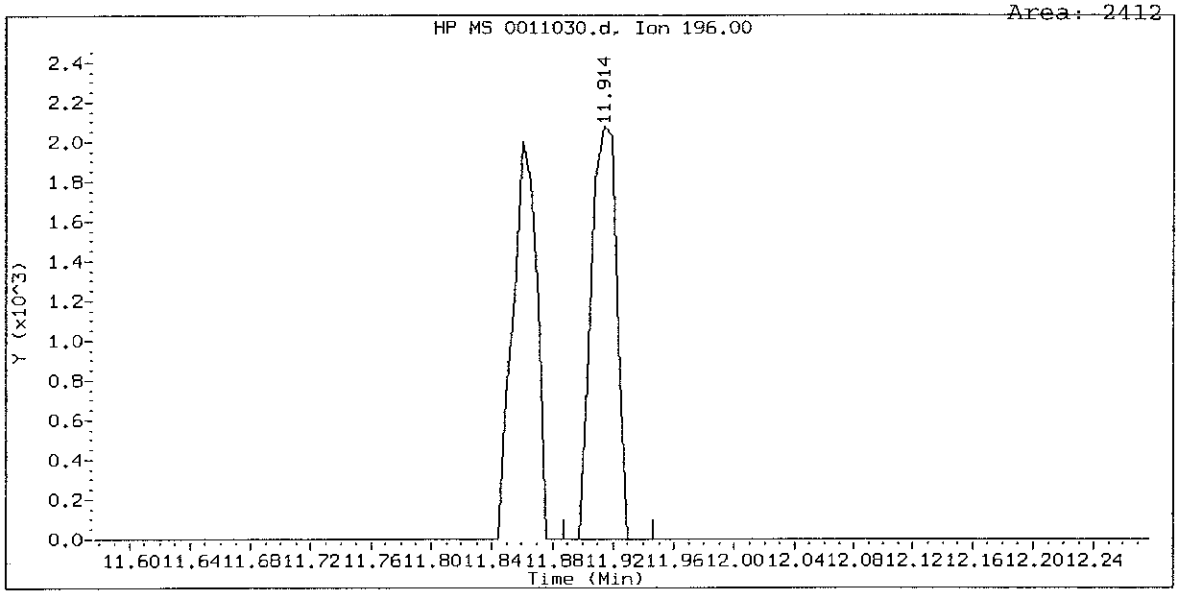
Instrument: nt6.i

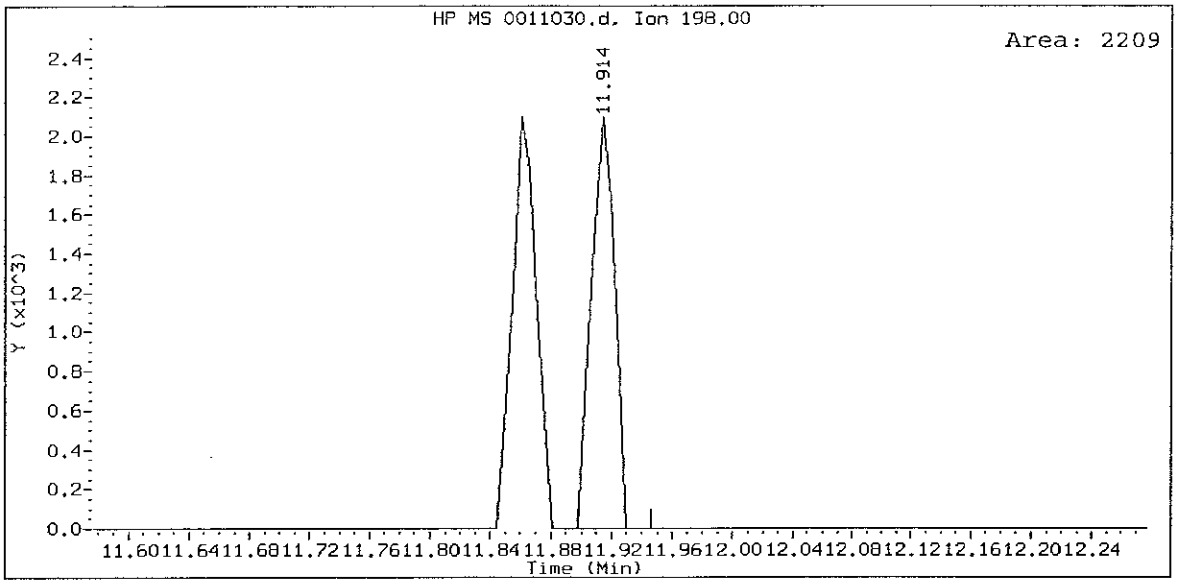
Operator: LJR/VTS
Column diameter: 0.32

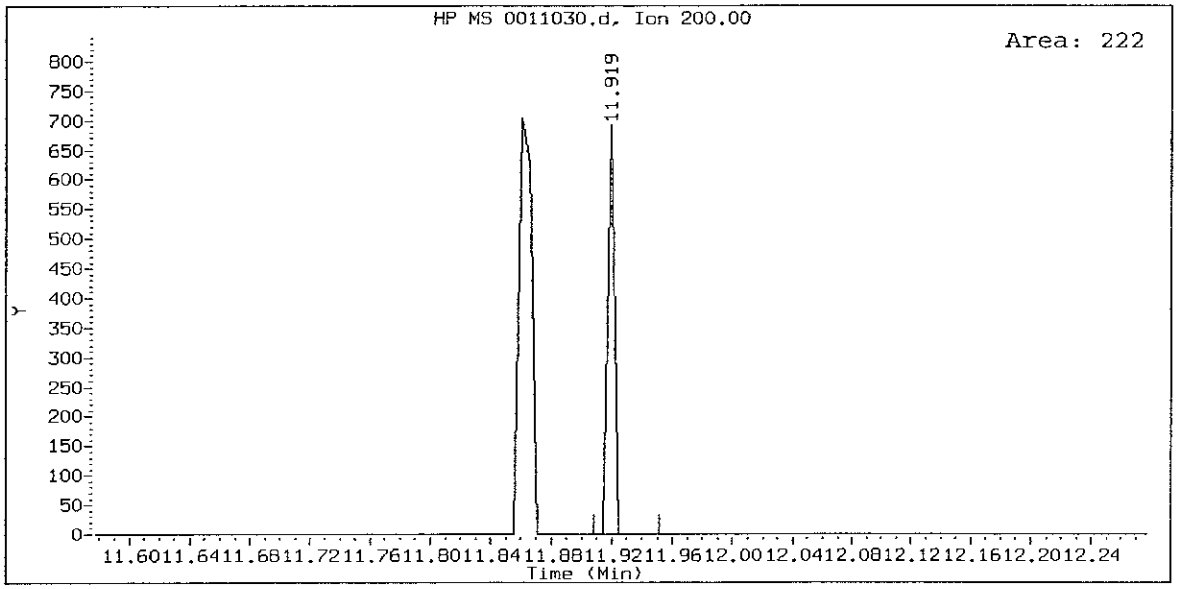
Column phase: ZB-5



ABN 1, /chem1/nt6.i/20081030.b/0011030.d
2,4,5-Trichlorophenol Amount: 0.00







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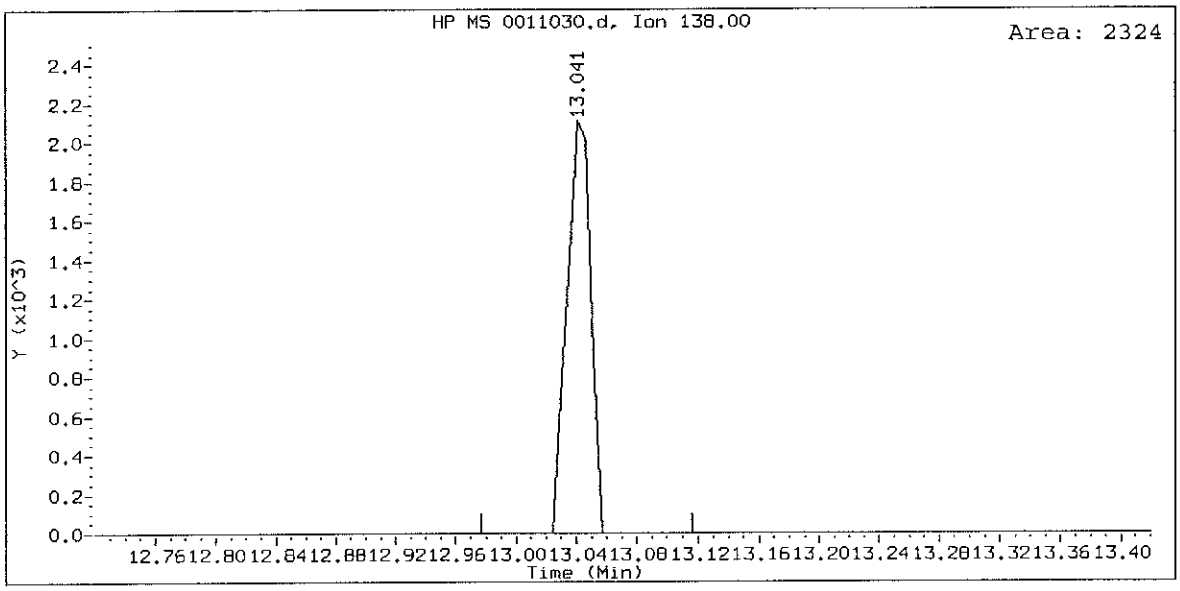
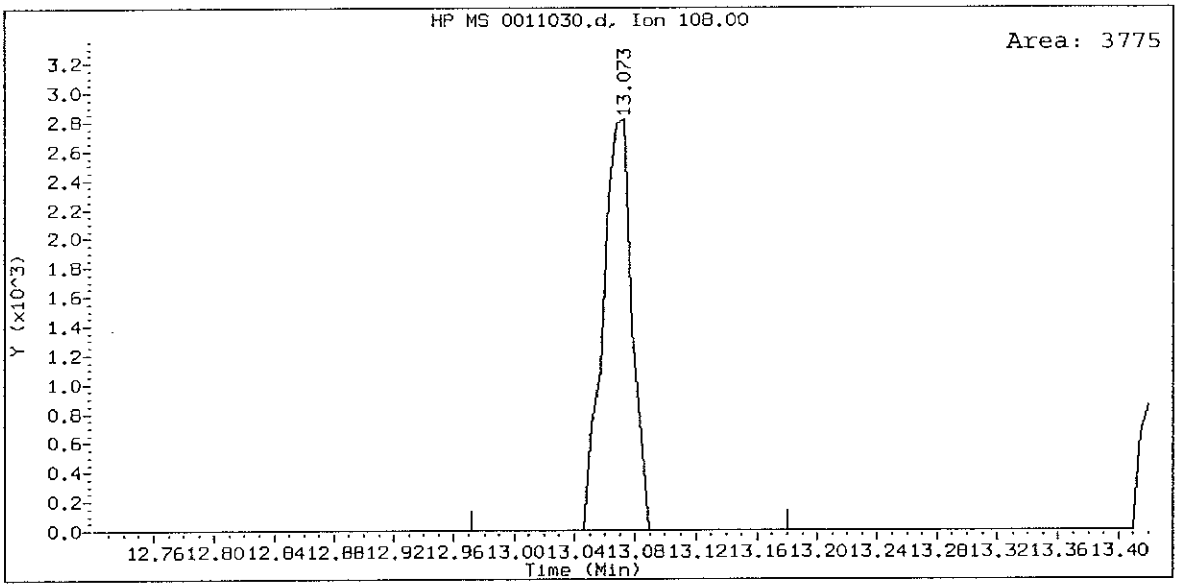
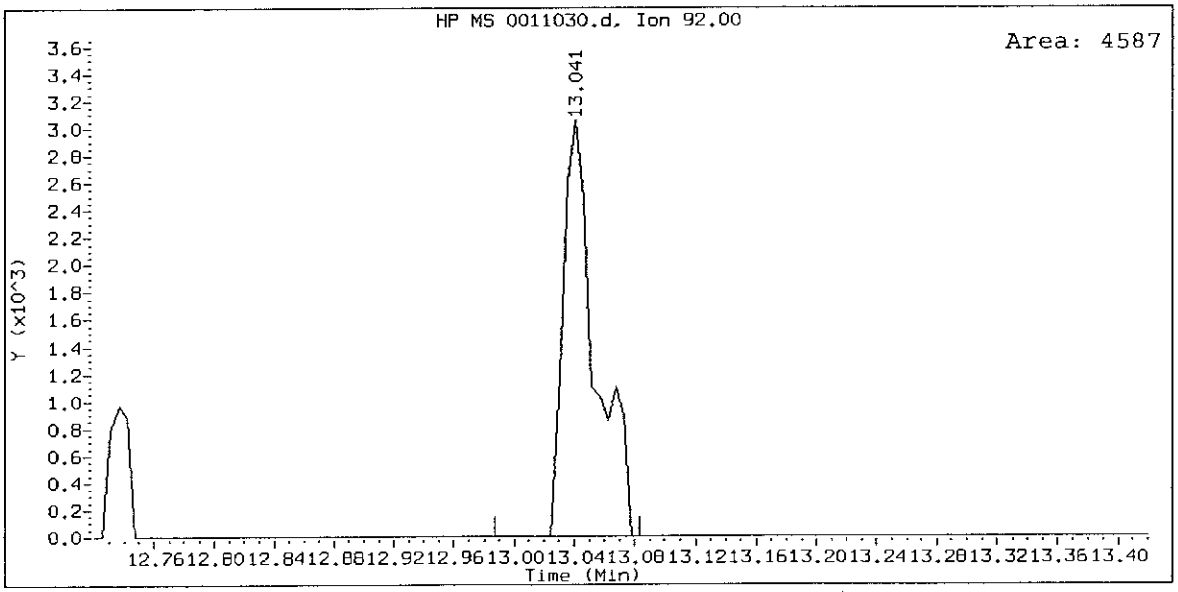
3-Nitroaniline Amount: 0.00







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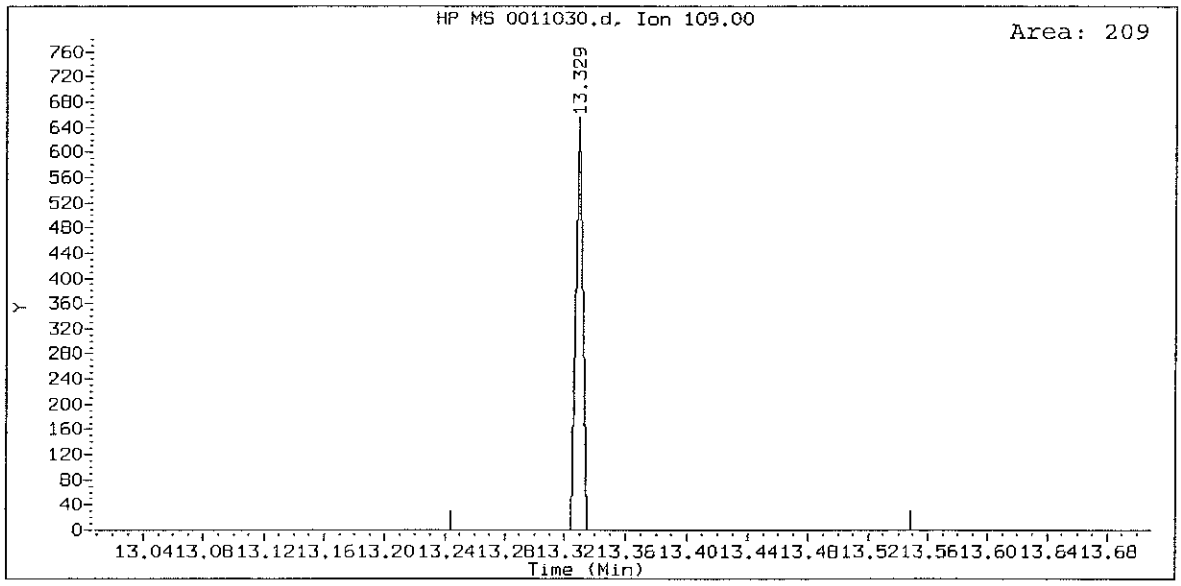

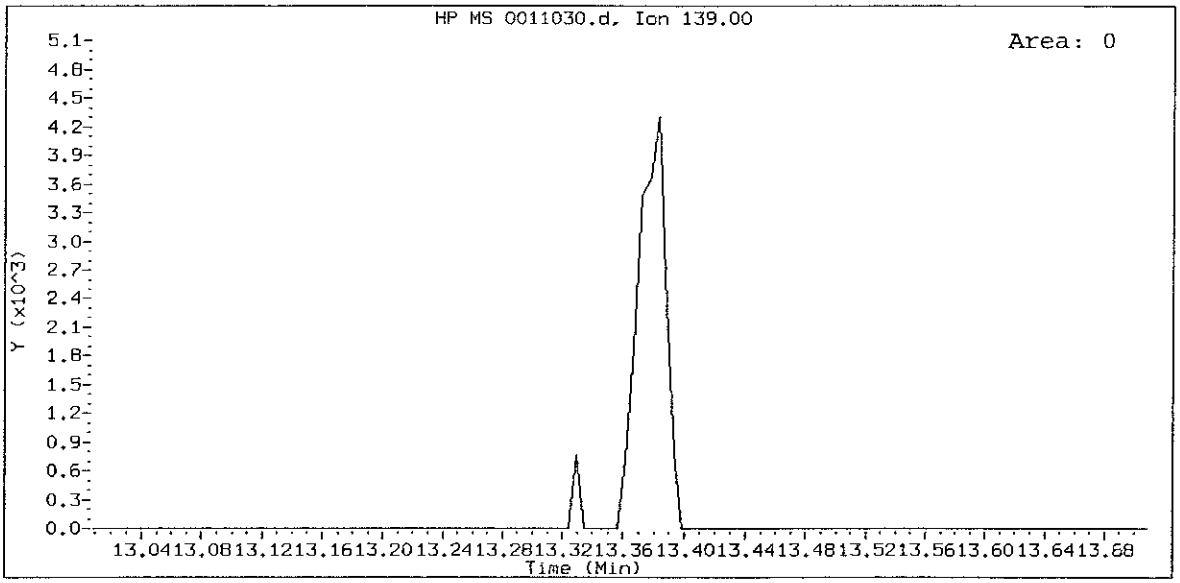

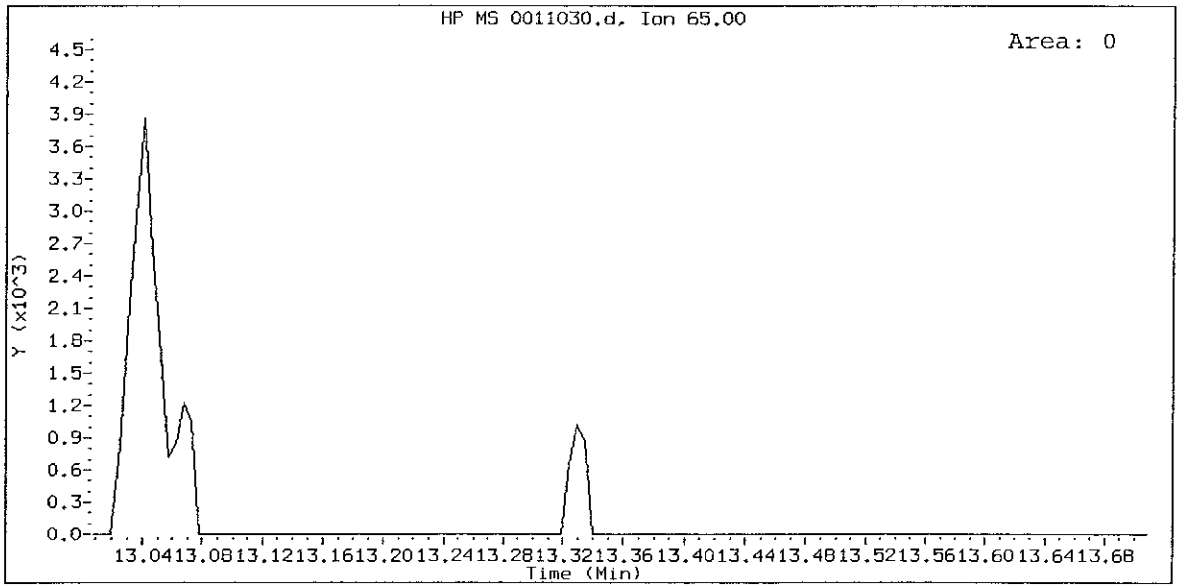

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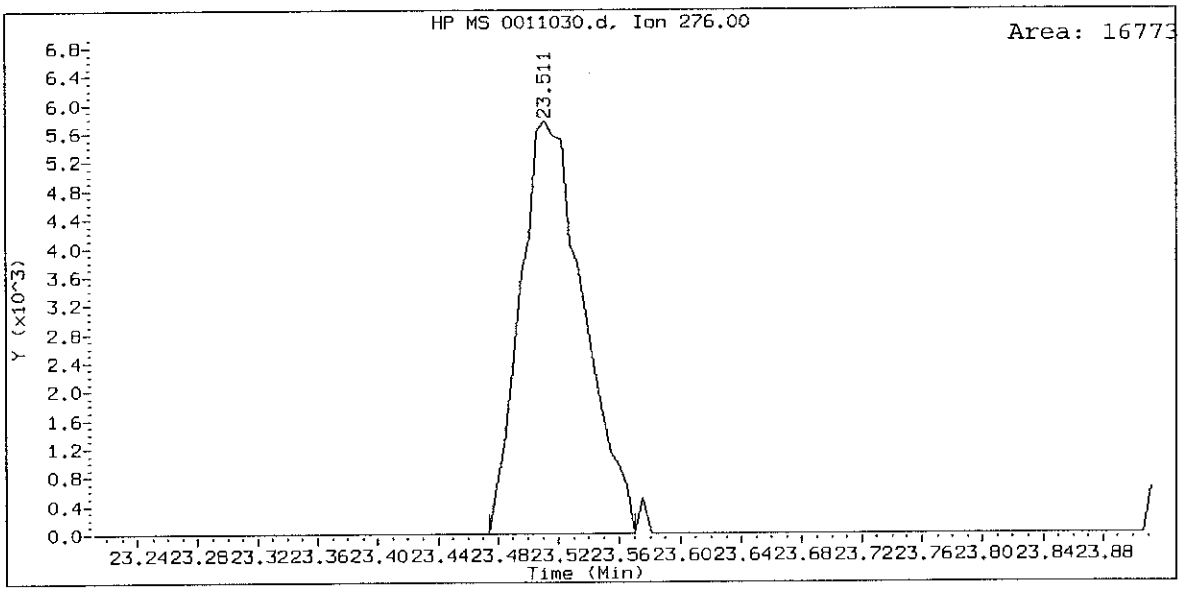
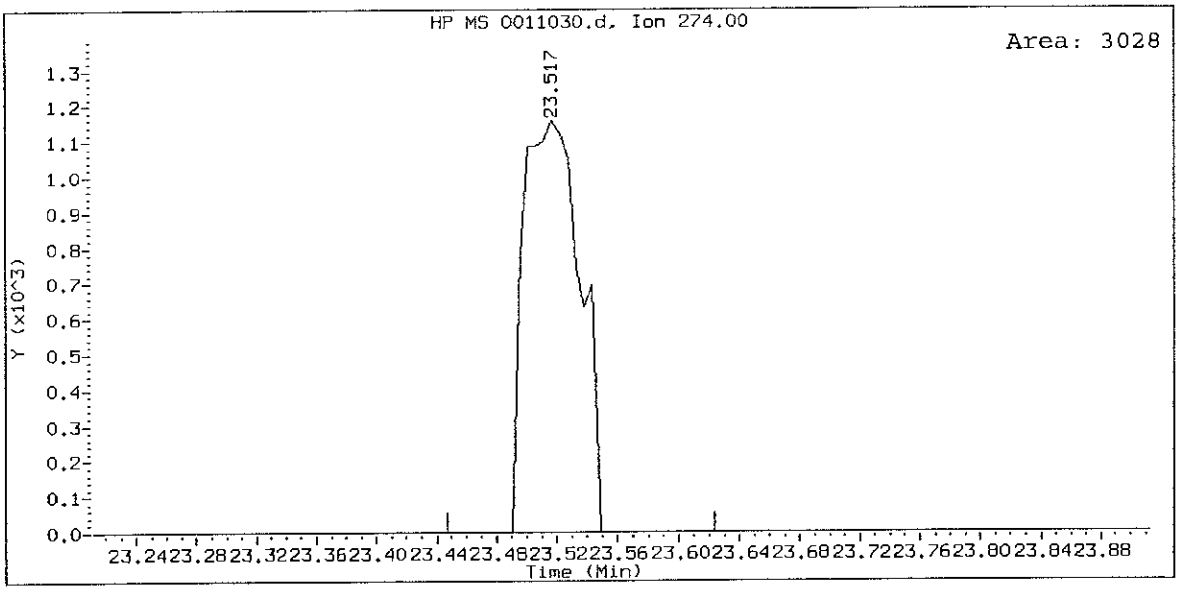
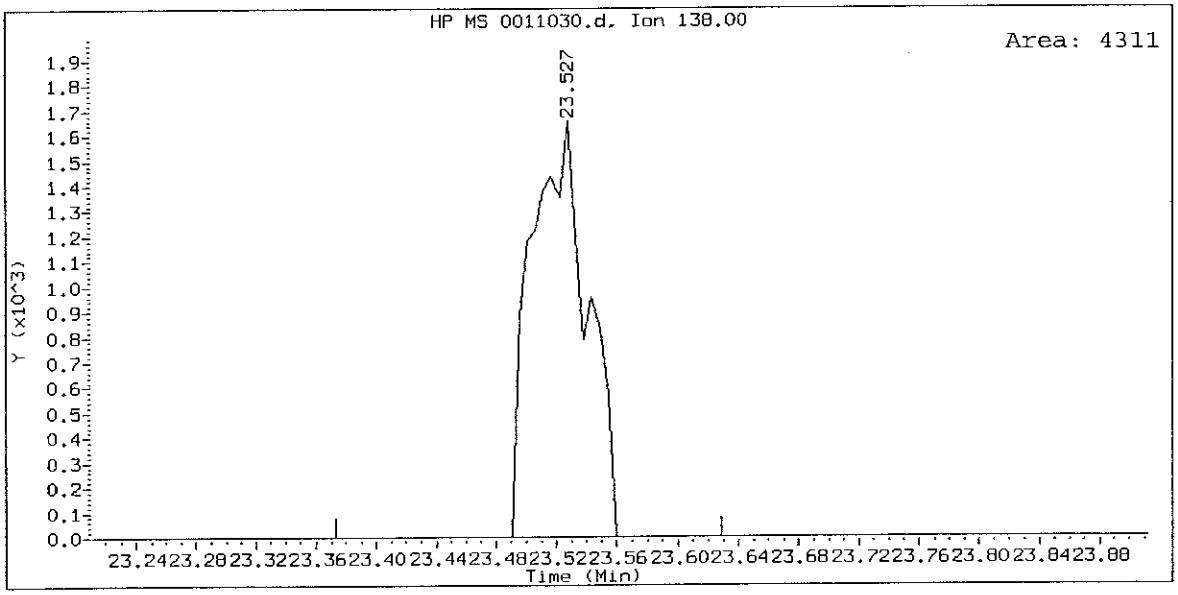
Indeno(1,2,3-cd)pyrene Amount: 1.00







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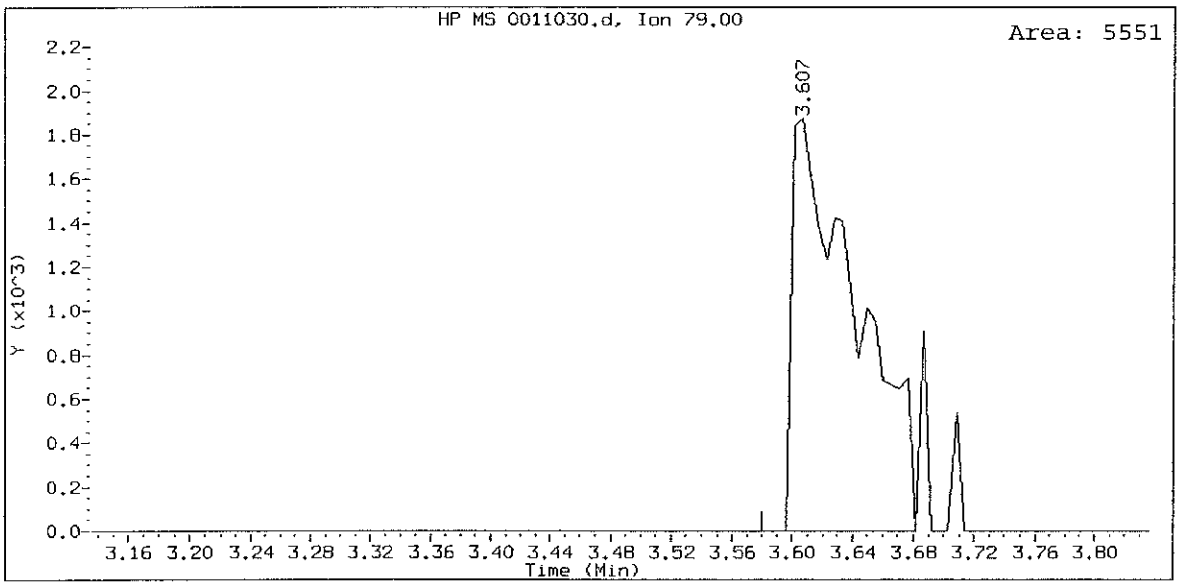

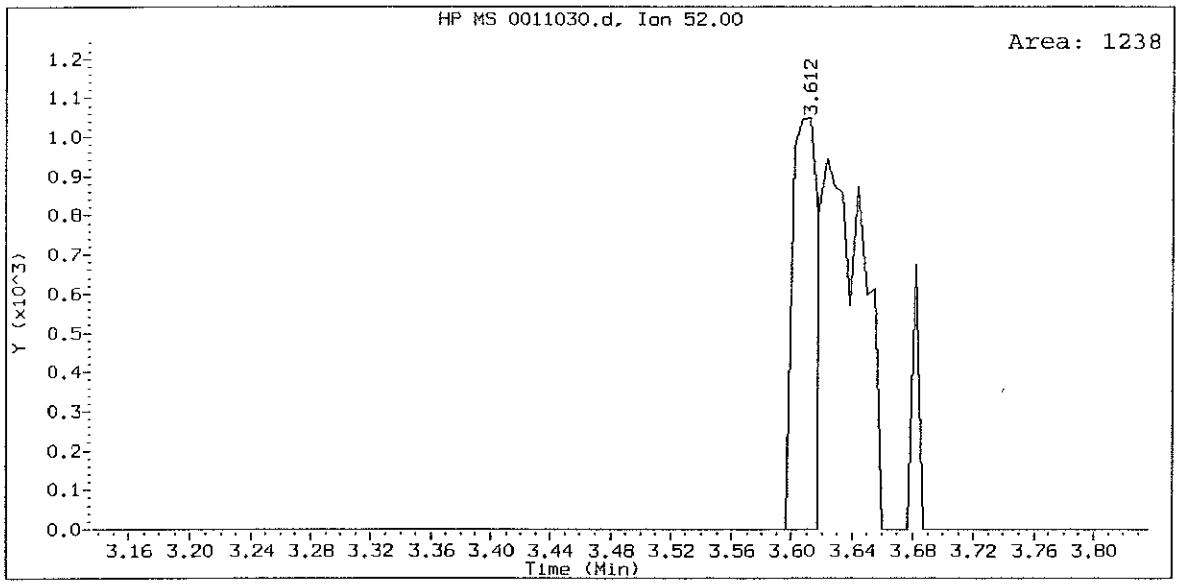

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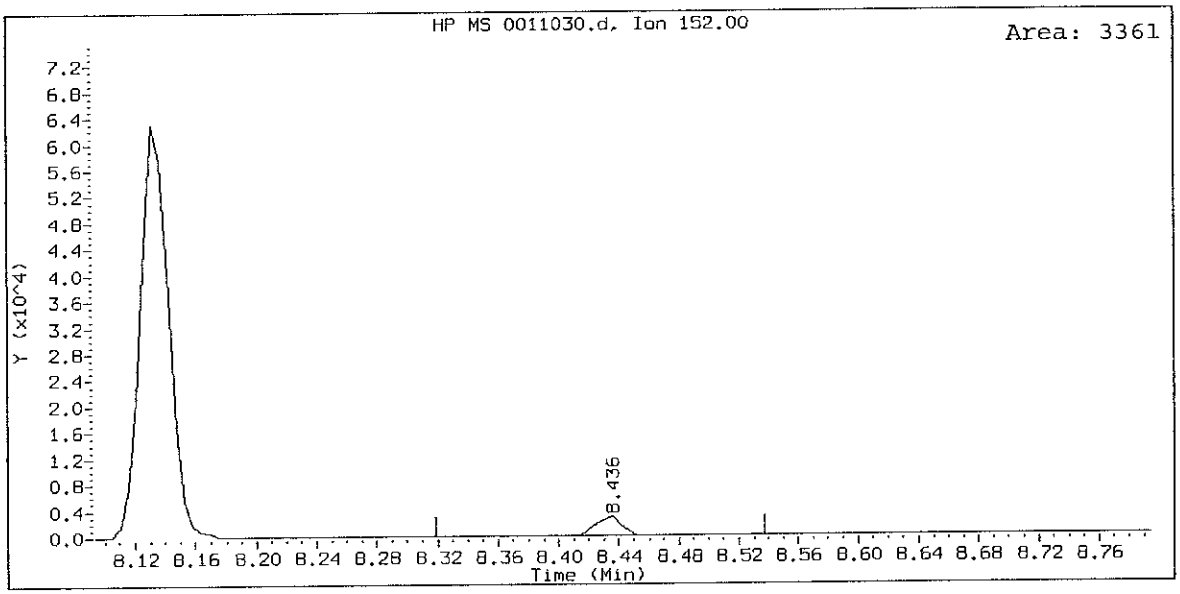
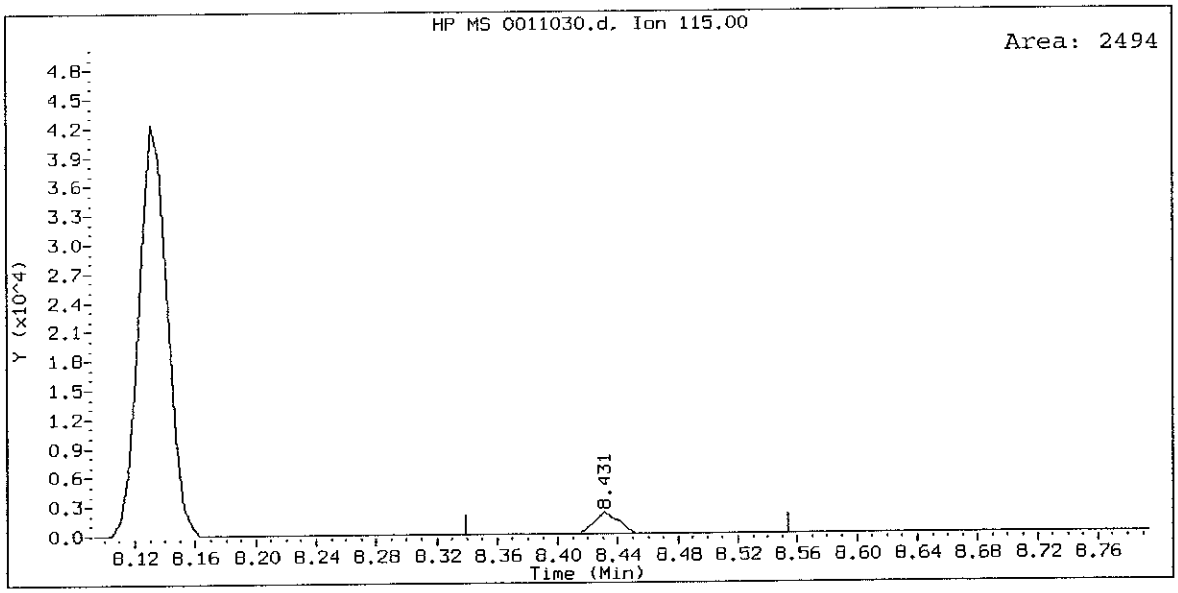
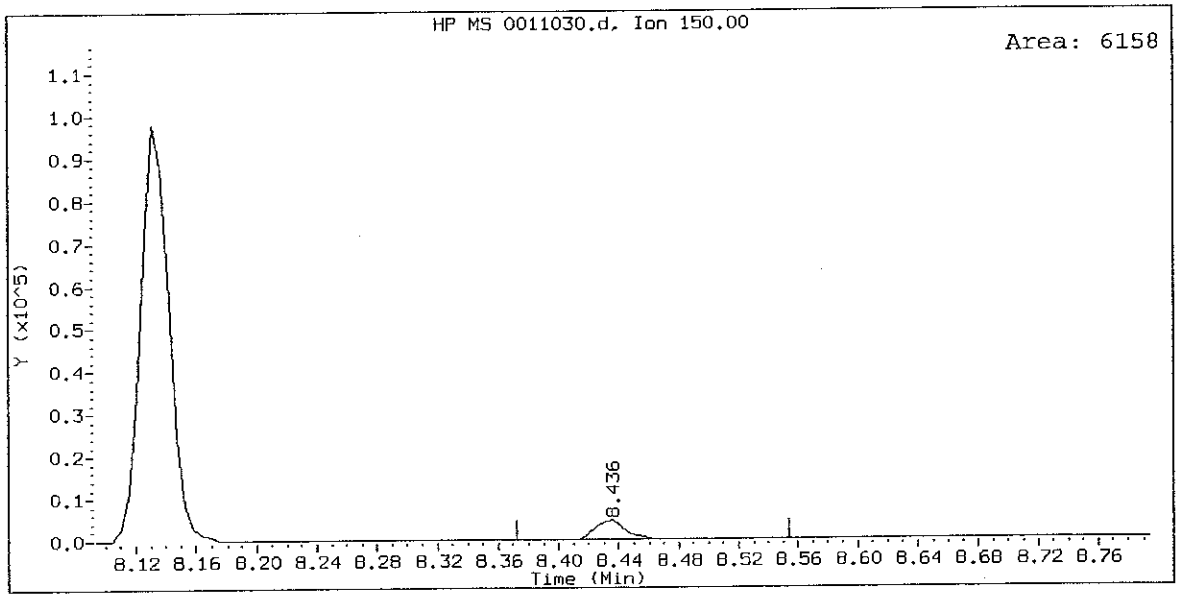
1,2-Dichlorobenzene-d4 Amount: 1.00







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20081030.b/0051030.d
Lab Smp Id: ABN 5
Inj Date : 30-OCT-2008 19:15
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : ABN 5
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20081030.b/SW846.m
Meth Date : 31-Oct-2008 11:27 jeff Quant Type: ISTD
Cal Date : 30-OCT-2008 19:15 Cal File: 0051030.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

LJR 10/31/08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.148	6.159	(0.756)	29056	5.00000	5.000
$	2 Phenol-d5	99	7.681	7.713	(0.944)	39474	5.00000	5.100
	3 Phenol	94	7.703	7.734	(0.947)	45255	5.00000	5.049
$	5 2-Chlorophenol-d4	132	7.825	7.841	(0.962)	26780	5.00000	5.177
	4 Bis(2-Chloroethyl)ether	93	7.804	7.820	(0.959)	30852	5.00000	5.065
	6 2-Chlorophenol	128	7.847	7.863	(0.965)	28030	5.00000	5.218
	7 1,3-Dichlorobenzene	146	8.071	8.082	(0.992)	29066	5.00000	5.119
*	8 1,4-Dichlorobenzene-d4	152	8.135	8.146	(1.000)	83986	20.0000	
	9 1,4-Dichlorobenzene	146	8.157	8.173	(1.003)	29383	5.00000	5.048
$	10 1,2-Dichlorobenzene-d4	152	8.434	8.445	(1.037)	18580	5.00000	5.211
	12 1,2-Dichlorobenzene	146	8.456	8.466	(1.039)	28051	5.00000	5.169
	11 Benzyl alcohol	108	8.413	8.434	(1.034)	22032	5.00000	5.331
	14 2,2'-oxybis(1-Chloropropane)	45	8.675	8.691	(1.066)	37619	5.00000	5.017
	13 2-Methylphenol	108	8.643	8.664	(1.062)	26438	5.00000	4.993
	17 Hexachloroethane	117	8.947	8.952	(1.100)	12706	5.00000	5.385
	16 N-Nitroso-di-n-propylamine	70	8.894	8.926	(1.093)	24516	5.00000	5.200
	15 4-Methylphenol	108	8.872	8.904	(1.091)	28165	5.00000	5.143
$	18 Nitrobenzene-d5	82	9.070	9.091	(0.890)	37361	5.00000	5.000
	19 Nitrobenzene	77	9.097	9.118	(0.893)	37637	5.00000	4.861
	20 Isophorone	82	9.481	9.508	(0.930)	60603	5.00000	5.186
	21 2-Nitrophenol	139	9.620	9.631	(0.944)	13157	5.00000	5.000
	22 2,4-Dimethylphenol	107	9.716	9.738	(0.953)	28154	5.00000	5.147
	23 Bis(2-Chloroethoxy)methane	93	9.877	9.893	(0.969)	33282	5.00000	4.992
	24 Benzoic acid	105	9.834	10.058	(0.965)	18345	10.0000	10.00
	25 2,4-Dichlorophenol	162	9.994	10.016	(0.981)	21082	5.00000	5.000
	26 1,2,4-Trichlorobenzene	180	10.133	10.144	(0.994)	23404	5.00000	5.024
*	27 Naphthalene-d8	136	10.192	10.197	(1.000)	291976	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	10.219	10.235	(1.003)	73424	5.00000	5.003
	29 4-Chloroaniline	127	10.363	10.379	(1.017)	36881	5.00000	5.000
	30 Hexachlorobutadiene	225	10.545	10.550	(1.035)	12736	5.00000	4.906
	31 4-Chloro-3-methylphenol	107	11.170	11.185	(1.096)	23563	5.00000	5.000
	32 2-Methylnaphthalene	141	11.346	11.362	(1.113)	47332	5.00000	4.974
	33 Hexachlorocyclopentadiene	237	11.730	11.736	(0.897)	13203	5.00000	5.000
	34 2,4,6-Trichlorophenol	196	11.864	11.875	(0.908)	14254	5.00000	5.000
	35 2,4,5-Trichlorophenol	196	11.912	11.928	(0.911)	14879	5.00000	5.000
$	36 2-Fluorobiphenyl	172	11.998	12.008	(0.918)	52315	5.00000	5.002
	37 2-Chloronaphthalene	162	12.131	12.147	(0.928)	43566	5.00000	4.991
	38 2-Nitroaniline	65	12.366	12.387	(0.946)	22596	5.00000	5.000
	39 Dimethylphthalate	163	12.740	12.767	(0.975)	47497	5.00000	4.935
	40 Acenaphthylene	152	12.815	12.826	(0.980)	67211	5.00000	4.999
	41 2,6-Dinitrotoluene	165	12.836	12.858	(0.982)	10267	5.00000	5.000
*	42 Acenaphthene-d10	164	13.071	13.077	(1.000)	152623	20.0000	
	43 3-Nitroaniline	138	13.045	13.071	(0.998)	13999	5.00000	5.000
	44 Acenaphthene	153	13.119	13.135	(1.004)	41236	5.00000	5.025
	45 2,4-Dinitrophenol	184	13.210	13.237	(1.011)	2222	10.0000	10.00
	46 Dibenzofuran	168	13.381	13.397	(1.024)	72474	5.00000	5.092
	47 4-Nitrophenol	109	13.333	13.360	(1.020)	7834	5.00000	5.000
	48 2,4-Dinitrotoluene	165	13.461	13.488	(1.030)	12873	5.00000	5.000
	50 Diethylphthalate	149	13.899	13.921	(1.063)	49271	5.00000	5.258
	49 Fluorene	166	13.942	13.958	(1.067)	46217	5.00000	4.911
	51 4-Chlorophenyl-phenylether	204	13.963	13.979	(1.068)	22686	5.00000	4.778
	52 4-Nitroaniline	138	14.038	14.086	(1.074)	12862	5.00000	5.000
	53 4,6-Dinitro-2-methylphenol	198	14.118	14.156	(0.913)	7958	10.0000	10.00
	54 N-Nitrosodiphenylamine	169	14.172	14.193	(0.917)	32265	5.00000	5.078
$	55 2,4,6-Tribromophenol	330	14.364	14.380	(1.099)	6912	5.00000	5.000
	56 4-Bromophenyl-phenylether	248	14.754	14.765	(0.954)	13652	5.00000	5.180
	57 Hexachlorobenzene	284	14.973	14.989	(0.969)	14972	5.00000	5.471
	58 Pentachlorophenol	266	15.267	15.283	(0.988)	6932	5.00000	5.000
*	59 Phenanthrene-d10	188	15.459	15.470	(1.000)	214832	20.0000	
	60 Phenanthrene	178	15.491	15.513	(1.002)	62435	5.00000	4.984
	61 Anthracene	178	15.566	15.587	(1.007)	64706	5.00000	4.995
	62 Carbazole	167	15.849	15.865	(1.025)	56574	5.00000	5.140
	63 Di-n-butylphthalate	149	16.565	16.576	(1.072)	70350	5.00000	5.068
	64 Fluoranthene	202	17.441	17.452	(1.128)	67110	5.00000	5.167
	65 Pyrene	202	17.799	17.815	(0.899)	71171	5.00000	4.991
$	66 Terphenyl-d14	244	18.114	18.125	(0.915)	49547	5.00000	5.032
	67 Butylbenzylphthalate	149	18.996	19.006	(0.960)	31418	5.00000	5.252
	68 Benzo(a)anthracene	228	19.765	19.781	(0.999)	70022	5.00000	5.019
*	69 Chrysene-d12	240	19.792	19.808	(1.000)	238994	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.776	19.792	(0.999)	31683	5.00000	5.000
	71 Chrysene	228	19.829	19.856	(1.002)	69954	5.00000	4.973
	72 bis(2-Ethylhexyl)phthalate	149	19.989	20.000	(0.955)	45115	5.00000	5.591
*	134 Di-n-octylphthalate-d4	153	20.924	20.935	(1.000)	348241	20.0000	
	73 Di-n-octylphthalate	149	20.935	20.946	(1.000)	88892	5.00000	4.962

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	74 Benzo(b)fluoranthene	252	21.421	21.453	(0.975)	82381	5.00000	5.018
	75 Benzo(k)fluoranthene	252	21.459	21.496	(0.977)	82703	5.00000	4.929
	76 Benzo(a)pyrene	252	21.875	21.902	(0.996)	75094	5.00000	5.254
*	77 Perylene-d12	264	21.961	21.971	(1.000)	279257	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	23.515	23.563	(1.071)	92557	5.00000	5.152
	79 Dibenzo(a,h)anthracene	278	23.542	23.590	(1.072)	77811	5.00000	5.311
	80 Benzo(g,h,i)perylene	276	23.953	24.017	(1.091)	80103	5.00000	5.251
	90 N-Nitrosodimethylamine	74	3.493	3.541	(0.429)	22111	5.00000	5.000
	103 Pyridine	79	3.514	3.487	(0.432)	37595	5.00000	5.000 (M)
	91 Aniline	93	7.686	7.697	(0.945)	60957	5.00000	5.000
	105 1-methylnaphthalene	141	11.522	11.533	(1.131)	38095	5.00000	5.009
	93 Benzidine	184	17.692	17.703	(0.894)	42535	5.00000	5.000
	111 Azobenzene (1,2-DP-Hydrazine)	77	14.220	14.236	(1.088)	64969	5.00000	5.168
	143 1,4-Dioxane	88	2.777	2.793	(0.341)	14256	5.00000	5.192
$	137 d8-1,4-Dioxane	96	2.724	2.740	(0.335)	14438	5.00000	5.000
	144 alpha-Terpineol	59	10.245	10.261	(1.005)	22291	5.00000	5.376
	98 Retene	219	18.360	18.371	(0.928)	26758	5.00000	5.114
	133 Butylatedhydroxytoluene	205	13.242	13.253	(1.013)	40733	5.00000	5.097
	115 Tributyl Phosphate	99	14.263	14.295	(0.923)	64192	5.00000	5.199
	116 Dibutyl Phenyl Phosphate	175	16.004	16.015	(1.035)	35182	5.00000	5.405
	117 Butyl Diphenyl Phosphate	94	17.703	17.714	(0.894)	16265	5.00000	5.285
	118 Triphenyl Phosphate	326	19.311	19.327	(0.976)	13538	5.00000	5.094
	123 Acetophenone	105	8.830	8.856	(1.085)	36783	5.00000	4.967
	179 n-Decane	57	7.964	7.975	(0.979)	37096	5.00000	5.072
	180 n-Octadecane	57	15.368	15.374	(0.994)	37486	5.00000	5.212
	168 Pentachlorobenzene	250	13.424	13.440	(1.027)	17825	5.00000	5.065
	113 Diphenyl Oxide	170	12.323	12.334	(0.943)	33708	5.00000	5.023
	112 Biphenyl	154	12.131	12.147	(0.928)	69823	5.00000	4.900

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 0051030.d
Lab Smp Id: ABN 5
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20081030.b/SW846.m
Misc Info:

Calibration Date: 30-OCT-2008
Calibration Time: 16:58

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	81566	40783	163132	83986	2.97
27 Naphthalene-d8	282544	141272	565088	291976	3.34
42 Acenaphthene-d10	147142	73571	294284	152623	3.72
59 Phenanthrene-d10	207740	103870	415480	214832	3.41
69 Chrysene-d12	219615	109808	439230	238994	8.82
134 Di-n-octylphthala	314948	157474	629896	348241	10.57
77 Perylene-d12	251306	125653	502612	279257	11.12

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.14	7.64	8.64	8.14	-0.02
27 Naphthalene-d8	10.19	9.69	10.69	10.19	-0.02
42 Acenaphthene-d10	13.07	12.57	13.57	13.07	-0.02
59 Phenanthrene-d10	15.46	14.96	15.96	15.46	-0.01
69 Chrysene-d12	19.79	19.29	20.29	19.79	-0.01
134 Di-n-octylphthala	20.93	20.43	21.43	20.92	-0.01
77 Perylene-d12	21.96	21.46	22.46	21.96	-0.01

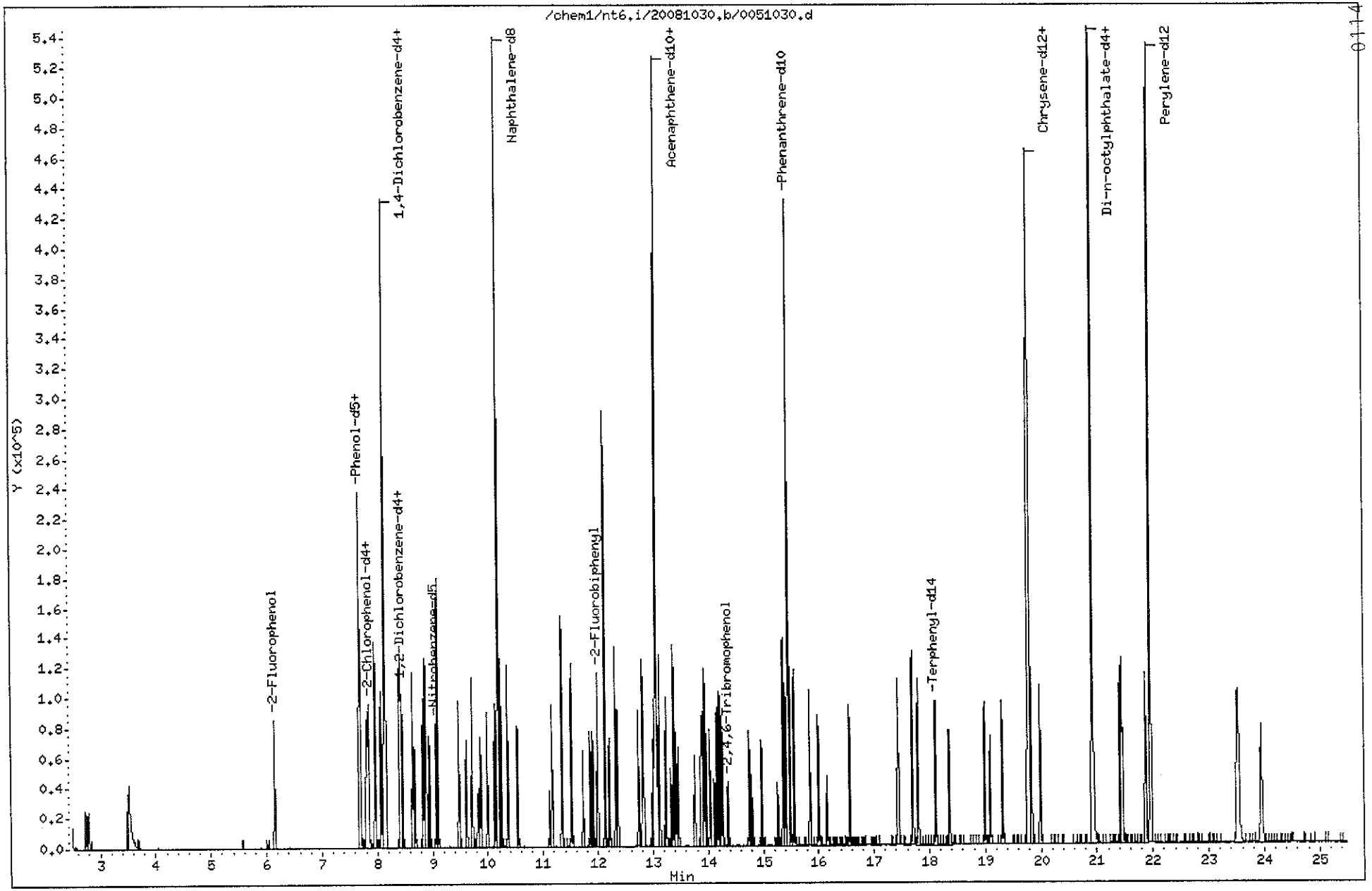
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt6.i/20081030.b/0051030.d
Date : 30-OCT-2008 19:15
Client ID:
Sample Info: ABN 5

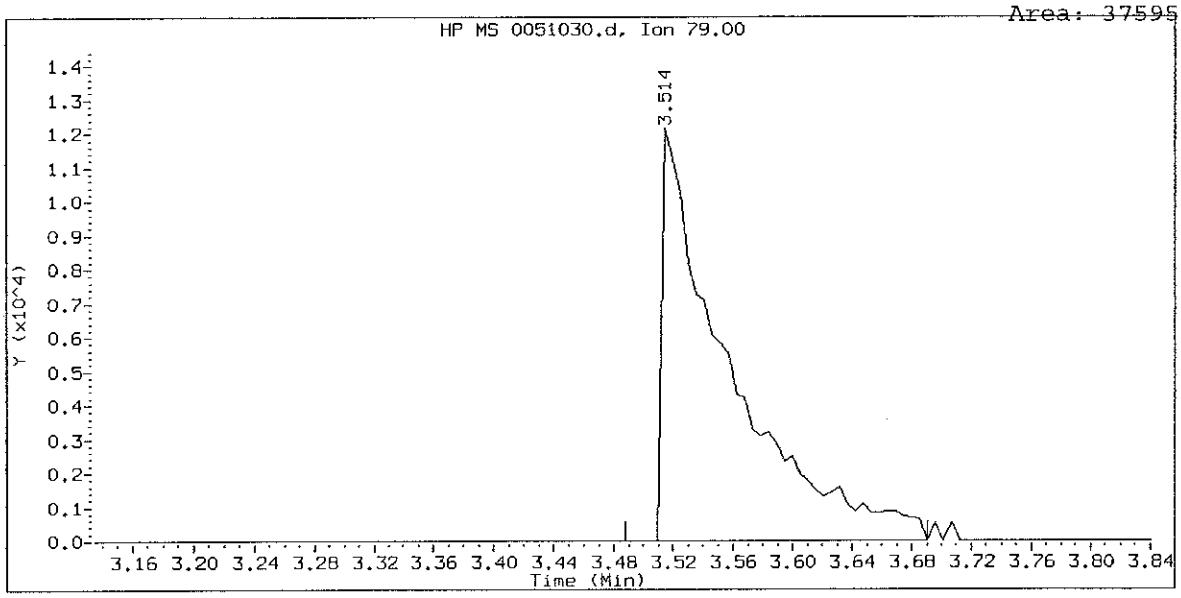
Instrument: nt6.i

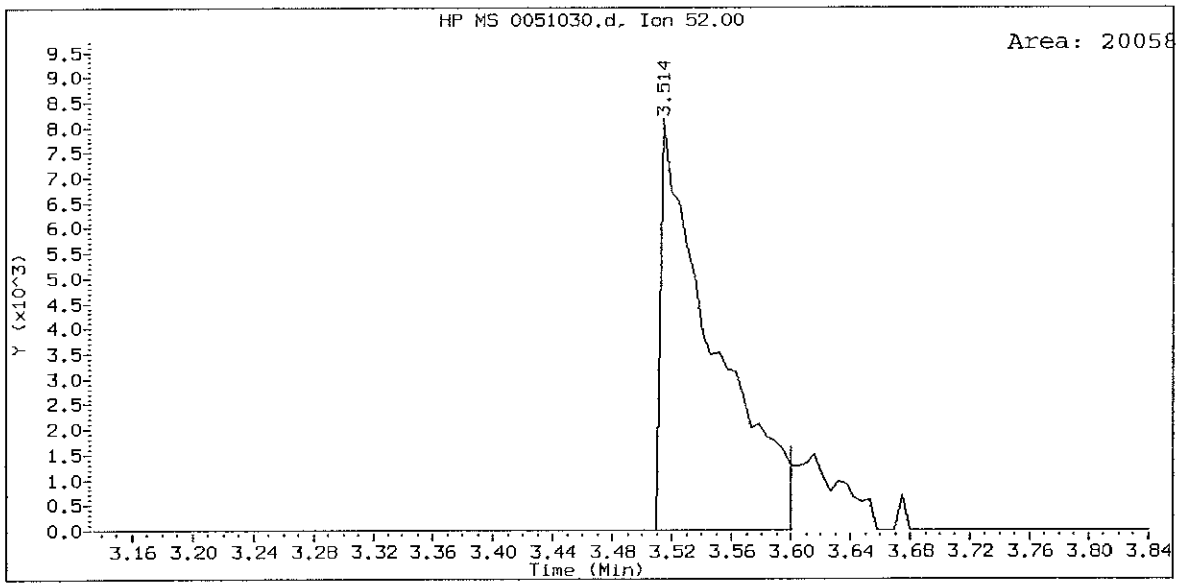
Operator: LJR/VTS
Column diameter: 0.32

Column phase: ZB-5



ABN 5, /chem1/nt6.i/20081030.b/0051030.d
Pyridine Amount: 5.00





Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20081030.b/0101030.d
Lab Smp Id: ABN 10
Inj Date : 30-OCT-2008 19:50
Operator : LJR/VTS Inst ID: nt6.i LJR 10/31/08
Smp Info : ABN 10
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20081030.b/SW846.m
Meth Date : 31-Oct-2008 11:27 jeff Quant Type: ISTD
Cal Date : 30-OCT-2008 19:50 Cal File: 0101030.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.148	6.159	(0.756)	62479	10.0000	10.59
$	2 Phenol-d5	99	7.686	7.713	(0.945)	85450	10.0000	10.99
	3 Phenol	94	7.702	7.734	(0.947)	98654	10.0000	10.97
$	5 2-Chlorophenol-d4	132	7.825	7.841	(0.962)	53817	10.0000	10.58
	4 Bis(2-Chloroethyl)ether	93	7.804	7.820	(0.959)	69602	10.0000	11.23
	6 2-Chlorophenol	128	7.852	7.863	(0.965)	61600	10.0000	11.25
	7 1,3-Dichlorobenzene	146	8.071	8.082	(0.992)	66917	10.0000	11.45
*	8 1,4-Dichlorobenzene-d4	152	8.135	8.146	(1.000)	80204	20.0000	
	9 1,4-Dichlorobenzene	146	8.162	8.173	(1.003)	66919	10.0000	11.27
$	10 1,2-Dichlorobenzene-d4	152	8.434	8.445	(1.037)	38305	10.0000	10.80
	12 1,2-Dichlorobenzene	146	8.456	8.466	(1.039)	63312	10.0000	11.38
	11 Benzyl alcohol	108	8.413	8.434	(1.034)	42706	10.0000	10.53
	14 2,2'-oxybis(1-Chloropropane)	45	8.680	8.691	(1.067)	85993	10.0000	11.26
	13 2-Methylphenol	108	8.642	8.664	(1.062)	58377	10.0000	10.98
	17 Hexachloroethane	117	8.947	8.952	(1.100)	29505	10.0000	11.87
	16 N-Nitroso-di-n-propylamine	70	8.894	8.926	(1.093)	55147	10.0000	11.39
	15 4-Methylphenol	108	8.878	8.904	(1.091)	61139	10.0000	11.07
$	18 Nitrobenzene-d5	82	9.070	9.091	(0.890)	79684	10.0000	10.49
	19 Nitrobenzene	77	9.097	9.118	(0.893)	86759	10.0000	11.00
	20 Isophorone	82	9.481	9.508	(0.930)	136483	10.0000	11.29
	21 2-Nitrophenol	139	9.620	9.631	(0.944)	30703	10.0000	10.93
	22 2,4-Dimethylphenol	107	9.722	9.738	(0.954)	64165	10.0000	11.32
	23 Bis(2-Chloroethoxy)methane	93	9.877	9.893	(0.969)	75619	10.0000	11.09
	24 Benzoic acid	105	9.877	10.058	(0.969)	57219	20.0000	24.62(M)
	25 2,4-Dichlorophenol	162	9.994	10.016	(0.981)	43870	10.0000	10.36
	26 1,2,4-Trichlorobenzene	180	10.133	10.144	(0.994)	51332	10.0000	10.88
*	27 Naphthalene-d8	136	10.192	10.197	(1.000)	282504	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	10.224	10.235	(1.003)	167451	10.0000	11.13
	29 4-Chloroaniline	127	10.363	10.379	(1.017)	67901	10.0000	9.751
	30 Hexachlorobutadiene	225	10.544	10.550	(1.035)	29863	10.0000	11.18
	31 4-Chloro-3-methylphenol	107	11.169	11.185	(1.096)	52000	10.0000	10.66
	32 2-Methylnaphthalene	141	11.351	11.362	(1.114)	86735	10.0000	9.606
	33 Hexachlorocyclopentadiene	237	11.736	11.736	(0.898)	33886	10.0000	11.44
	34 2,4,6-Trichlorophenol	196	11.864	11.875	(0.908)	31772	10.0000	10.74
	35 2,4,5-Trichlorophenol	196	11.917	11.928	(0.912)	33801	10.0000	10.84
$	36 2-Fluorobiphenyl	172	11.997	12.008	(0.918)	107886	10.0000	10.48
	37 2-Chloronaphthalene	162	12.131	12.147	(0.928)	97122	10.0000	11.00
	38 2-Nitroaniline	65	12.366	12.387	(0.946)	41240	10.0000	9.744
	39 Dimethylphthalate	163	12.745	12.767	(0.975)	108345	10.0000	11.08
	40 Acenaphthylene	152	12.815	12.826	(0.980)	154225	10.0000	11.22
	41 2,6-Dinitrotoluene	165	12.836	12.858	(0.982)	23850	10.0000	10.95
*	42 Acenaphthene-d10	164	13.071	13.077	(1.000)	146605	20.0000	
	43 3-Nitroaniline	138	13.050	13.071	(0.998)	25759	10.0000	9.784
	44 Acenaphthene	153	13.119	13.135	(1.004)	91645	10.0000	11.03
	45 2,4-Dinitrophenol	184	13.210	13.237	(1.011)	14233	20.0000	30.77
	46 Dibenzofuran	168	13.381	13.397	(1.024)	130888	10.0000	9.711
	47 4-Nitrophenol	109	13.333	13.360	(1.020)	17563	10.0000	10.77
	48 2,4-Dinitrotoluene	165	13.466	13.488	(1.030)	30970	10.0000	11.12
	50 Diethylphthalate	149	13.904	13.921	(1.064)	109760	10.0000	11.36
	49 Fluorene	166	13.942	13.958	(1.067)	105845	10.0000	11.08
	51 4-Chlorophenyl-phenylether	204	13.969	13.979	(1.069)	52196	10.0000	10.92
	52 4-Nitroaniline	138	14.043	14.086	(1.074)	24261	10.0000	9.908
	53 4,6-Dinitro-2-methylphenol	198	14.118	14.156	(0.913)	30276	20.0000	26.35
	54 N-Nitrosodiphenylamine	169	14.172	14.193	(0.917)	72553	10.0000	11.01
$	55 2,4,6-Tribromophenol	330	14.369	14.380	(1.099)	14965	10.0000	10.60
	56 4-Bromophenyl-phenylether	248	14.754	14.765	(0.954)	29801	10.0000	10.94
	57 Hexachlorobenzene	284	14.973	14.989	(0.969)	33220	10.0000	11.43
	58 Pentachlorophenol	266	15.267	15.283	(0.988)	20126	10.0000	11.91
*	59 Phenanthrene-d10	188	15.459	15.470	(1.000)	211691	20.0000	
	60 Phenanthrene	178	15.496	15.513	(1.002)	145118	10.0000	11.11
	61 Anthracene	178	15.566	15.587	(1.007)	151314	10.0000	11.16
	62 Carbazole	167	15.849	15.865	(1.025)	131495	10.0000	11.32
	63 Di-n-butylphthalate	149	16.565	16.576	(1.072)	170208	10.0000	11.51
	64 Fluoranthene	202	17.441	17.452	(1.128)	160159	10.0000	11.55
	65 Pyrene	202	17.799	17.815	(0.899)	163170	10.0000	10.75
$	66 Terphenyl-d14	244	18.114	18.125	(0.915)	111544	10.0000	10.68
	67 Butylbenzylphthalate	149	18.996	19.006	(0.960)	79476	10.0000	11.80
	68 Benzo(a)anthracene	228	19.765	19.781	(0.999)	169701	10.0000	11.17
*	69 Chrysene-d12	240	19.792	19.808	(1.000)	244911	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.775	19.792	(0.999)	62755	10.0000	9.829
	71 Chrysene	228	19.834	19.856	(1.002)	161293	10.0000	10.76
	72 bis(2-Ethylhexyl)phthalate	149	19.989	20.000	(0.955)	110285	10.0000	11.98
*	134 Di-n-octylphthalate-d4	153	20.929	20.935	(1.000)	358044	20.0000	
	73 Di-n-octylphthalate	149	20.935	20.946	(1.000)	210538	10.0000	10.91

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	21.426	21.453	(0.976)	190552	10.0000	10.85
75	Benzo(k)fluoranthene	252	21.464	21.496	(0.977)	212198	10.0000	11.45
76	Benzo(a)pyrene	252	21.880	21.902	(0.996)	179856	10.0000	11.41
* 77	Perylene-d12	264	21.960	21.971	(1.000)	286234	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	23.520	23.563	(1.071)	229478	10.0000	11.52
79	Dibenzo(a,h)anthracene	278	23.547	23.590	(1.072)	193743	10.0000	11.76
80	Benzo(g,h,i)perylene	276	23.958	24.017	(1.091)	194730	10.0000	11.51
90	N-Nitrosodimethylamine	74	3.487	3.541	(0.429)	51542	10.0000	10.99
103	Pyridine	79	3.498	3.487	(0.430)	82427	10.0000	10.69 (M)
91	Aniline	93	7.686	7.697	(0.945)	116988	10.0000	10.02
105	1-methylnaphthalene	141	11.522	11.533	(1.131)	81285	10.0000	10.67
93	Benzidine	184	17.692	17.703	(0.894)	69495	10.0000	8.871
111	Azobenzene (1,2-DP-Hydrazine)	77	14.220	14.236	(1.088)	146458	10.0000	11.32
143	1,4-Dioxane	88	2.777	2.793	(0.341)	33260	10.0000	11.64
$ 137	d8-1,4-Dioxane	96	2.723	2.740	(0.335)	32836	10.0000	10.87
144	alpha-Terpineol	59	10.245	10.261	(1.005)	44189	10.0000	10.65
98	Retene	219	18.360	18.371	(0.928)	56968	10.0000	10.41
133	Butylatedhydroxytoluene	205	13.242	13.253	(1.013)	83652	10.0000	10.58
115	Tributyl Phosphate	99	14.268	14.295	(0.923)	132522	10.0000	10.58
116	Dibutyl Phenyl Phosphate	175	16.004	16.015	(1.035)	76039	10.0000	11.16
117	Butyl Diphenyl Phosphate	94	17.703	17.714	(0.894)	35632	10.0000	10.83
118	Triphenyl Phosphate	326	19.311	19.327	(0.976)	30468	10.0000	10.76
123	Acetophenone	105	8.835	8.856	(1.086)	82378	10.0000	11.04
179	n-Decane	57	7.964	7.975	(0.979)	71679	10.0000	10.17
180	n-Octadecane	57	15.363	15.374	(0.994)	72882	10.0000	10.19
168	Pentachlorobenzene	250	13.424	13.440	(1.027)	39668	10.0000	11.09
113	Diphenyl Oxide	170	12.329	12.334	(0.943)	63101	10.0000	9.858
112	Biphenyl	154	12.131	12.147	(0.928)	129811	10.0000	9.649

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 0101030.d
Lab Smp Id: ABN 10
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20081030.b/SW846.m
Misc Info:

Calibration Date: 30-OCT-2008
Calibration Time: 16:58

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	81566	40783	163132	80204	-1.67
27 Naphthalene-d8	282544	141272	565088	282504	-0.01
42 Acenaphthene-d10	147142	73571	294284	146605	-0.36
59 Phenanthrene-d10	207740	103870	415480	211691	1.90
69 Chrysene-d12	219615	109808	439230	244911	11.52
134 Di-n-octylphthala	314948	157474	629896	358044	13.68
77 Perylene-d12	251306	125653	502612	286234	13.90

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.14	7.64	8.64	8.13	-0.03
27 Naphthalene-d8	10.19	9.69	10.69	10.19	-0.02
42 Acenaphthene-d10	13.07	12.57	13.57	13.07	-0.02
59 Phenanthrene-d10	15.46	14.96	15.96	15.46	-0.01
69 Chrysene-d12	19.79	19.29	20.29	19.79	-0.01
134 Di-n-octylphthala	20.93	20.43	21.43	20.93	0.01
77 Perylene-d12	21.96	21.46	22.46	21.96	-0.01

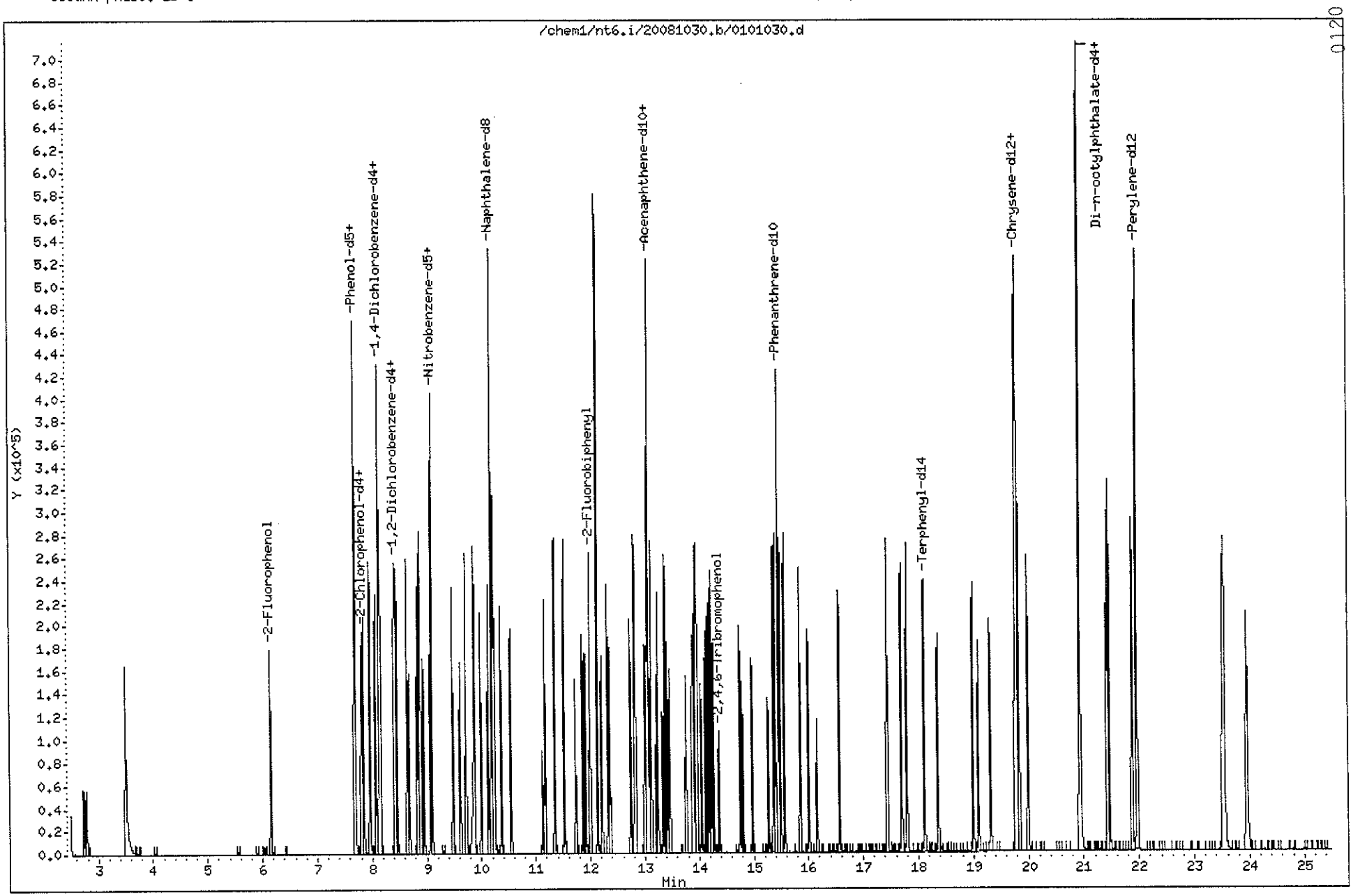
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt6.i/20081030.b/0101030.d
Date : 30-OCT-2008 19:50
Client ID:
Sample Info: ABN 10

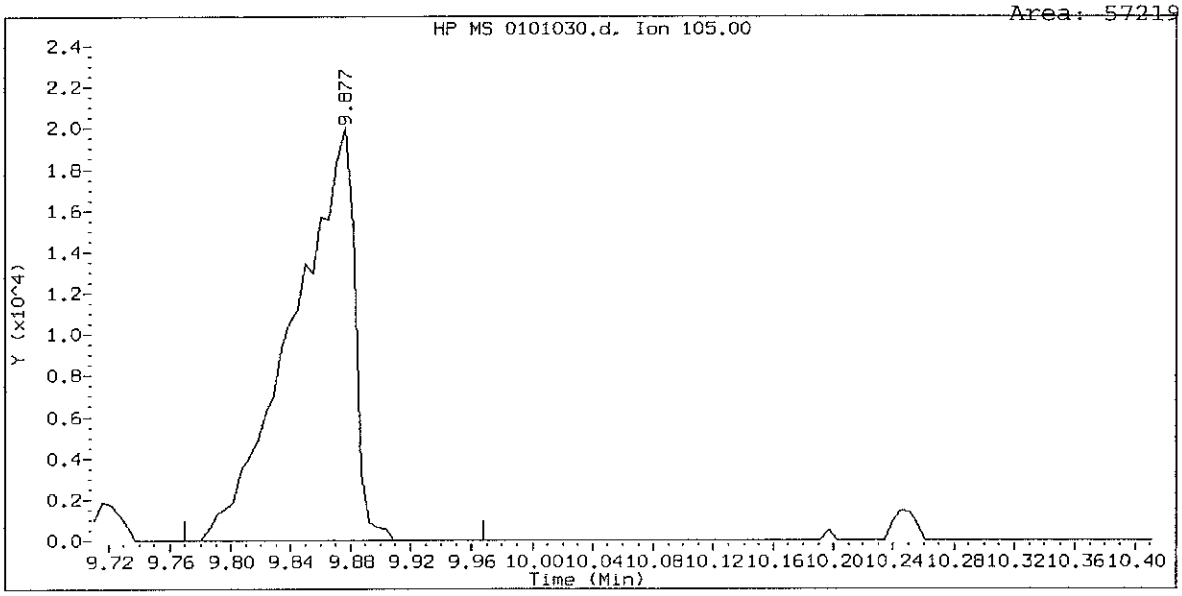
Instrument: nt6.i

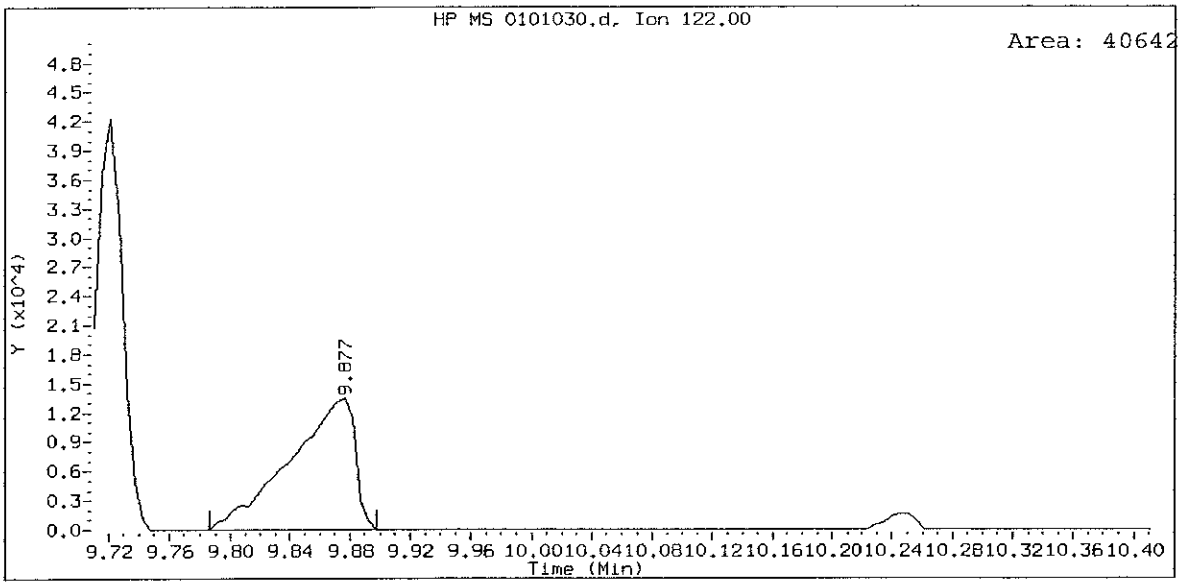
Operator: LJR/VTS
Column diameter: 0.32

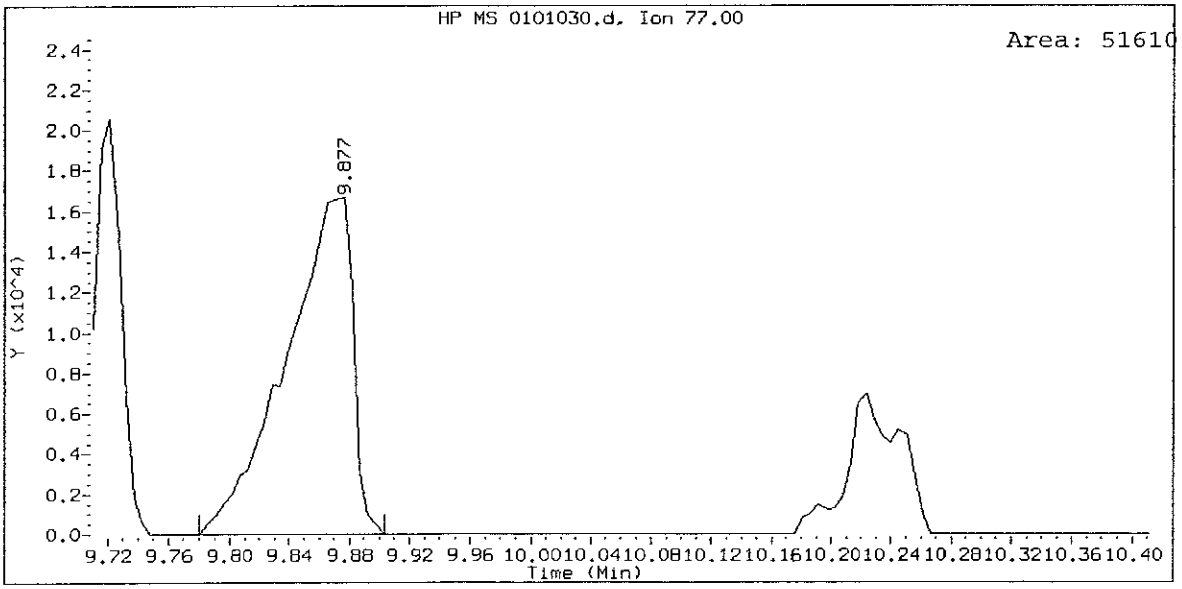
Column phase: ZB-5



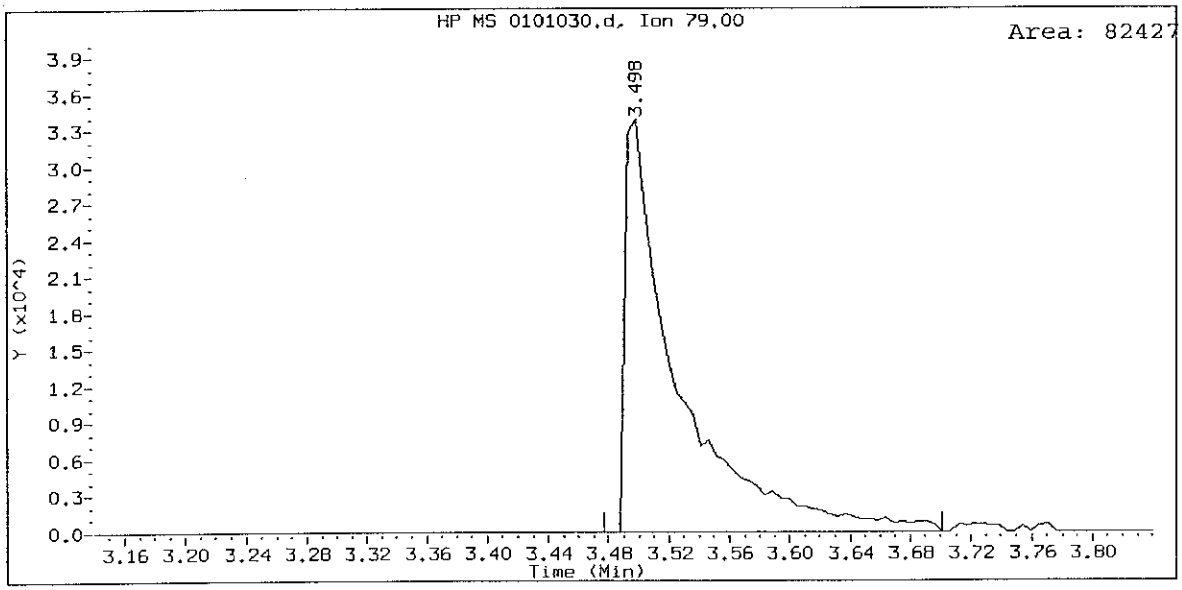
ABN 10, /chem1/nt6.i/20081030.b/0101030.d
Benzoic acid Amount: 24.68

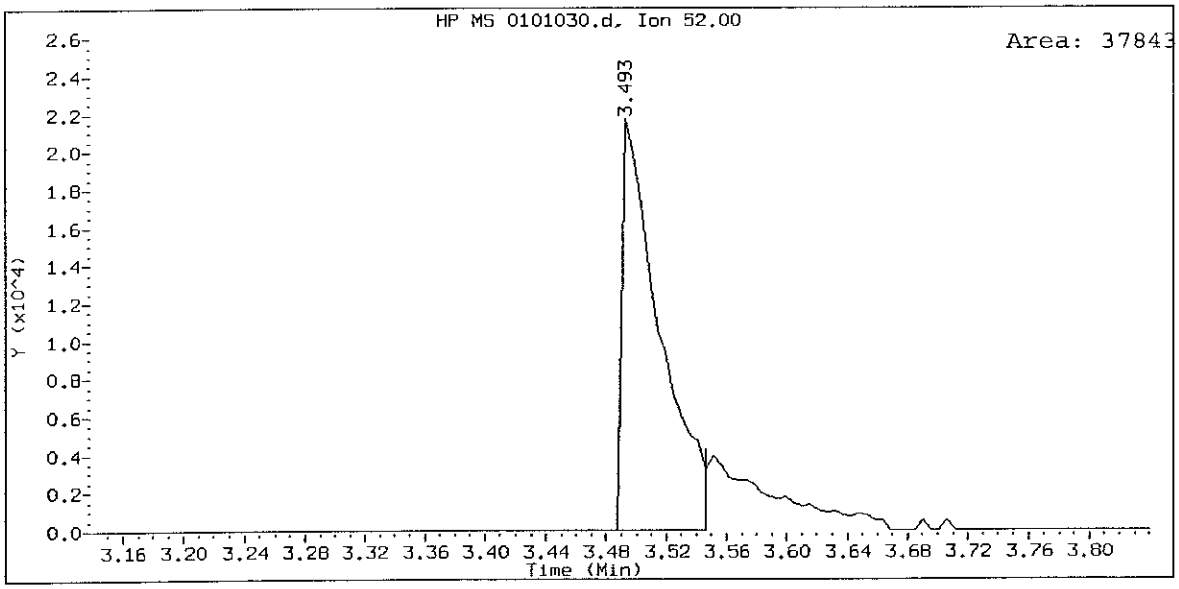






ABN 10, /chem1/nt6.i/20081030.b/0101030.d
Pyridine Amount: 10.69





Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20081030.b/0251030.d
Lab Smp Id: ABN 25
Inj Date : 30-OCT-2008 16:58
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : ABN 25
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20081030.b/SW846.m
Meth Date : 31-Oct-2008 11:27 jeff Quant Type: ISTD
Cal Date : 30-OCT-2008 16:58 Cal File: 0251030.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

LJR 10/31/08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.150	6.159	(0.756)	143571	25.0000	24.28
$	2 Phenol-d5	99	7.694	7.713	(0.946)	201793	25.0000	25.39
	3 Phenol	94	7.710	7.734	(0.947)	226494	25.0000	24.82
$	5 2-Chlorophenol-d4	132	7.827	7.841	(0.962)	124728	25.0000	24.33
	4 Bis(2-Chloroethyl)ether	93	7.811	7.820	(0.960)	161806	25.0000	25.50
	6 2-Chlorophenol	128	7.854	7.863	(0.965)	143543	25.0000	25.59
	7 1,3-Dichlorobenzene	146	8.073	8.082	(0.992)	153316	25.0000	25.59
*	8 1,4-Dichlorobenzene-d4	152	8.137	8.146	(1.000)	81566	20.0000	
	9 1,4-Dichlorobenzene	146	8.164	8.173	(1.003)	155175	25.0000	25.52
$	10 1,2-Dichlorobenzene-d4	152	8.436	8.445	(1.037)	89222	25.0000	24.80
	12 1,2-Dichlorobenzene	146	8.458	8.466	(1.039)	145735	25.0000	25.56
	11 Benzyl alcohol	108	8.420	8.434	(1.035)	100728	25.0000	24.57
	14 2,2'-oxybis(1-Chloropropane)	45	8.682	8.691	(1.067)	202655	25.0000	25.80
	13 2-Methylphenol	108	8.650	8.664	(1.063)	139361	25.0000	25.58
	17 Hexachloroethane	117	8.949	8.952	(1.100)	67104	25.0000	26.14
	16 N-Nitroso-di-n-propylamine	70	8.901	8.926	(1.094)	128969	25.0000	25.89
	15 4-Methylphenol	108	8.880	8.904	(1.091)	143616	25.0000	25.42
$	18 Nitrobenzene-d5	82	9.072	9.091	(0.885)	183522	25.0000	24.42
	19 Nitrobenzene	77	9.104	9.118	(0.888)	197645	25.0000	25.04
	20 Isophorone	82	9.489	9.508	(0.925)	312849	25.0000	25.65
	21 2-Nitrophenol	139	9.622	9.631	(0.939)	71940	25.0000	25.41
	22 2,4-Dimethylphenol	107	9.724	9.738	(0.948)	146079	25.0000	25.57
	23 Bis(2-Chloroethoxy)methane	93	9.879	9.893	(0.964)	180467	25.0000	26.08
	24 Benzoic acid	105	9.927	10.058	(0.968)	150426	50.0000	59.03 (M)
	25 2,4-Dichlorophenol	162	10.002	10.016	(0.976)	105195	25.0000	24.90
	26 1,2,4-Trichlorobenzene	180	10.135	10.144	(0.989)	117887	25.0000	24.99
*	27 Naphthalene-d8	136	10.194	10.197	(1.000)	282544	20.0000	(H)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	10.226	10.235	(0.997)	391379	25.0000	25.75
	29 4-Chloroaniline	127	10.370	10.379	(1.011)	158150	25.0000	23.42
	30 Hexachlorobutadiene	225	10.547	10.550	(1.029)	70515	25.0000	26.04
	31 4-Chloro-3-methylphenol	107	11.172	11.185	(1.090)	121873	25.0000	24.98
	32 2-Methylnaphthalene	141	11.353	11.362	(1.107)	202130	25.0000	22.98
	33 Hexachlorocyclopentadiene	237	11.732	11.736	(0.897)	82849	25.0000	26.84
	34 2,4,6-Trichlorophenol	196	11.866	11.875	(0.908)	74475	25.0000	25.06
	35 2,4,5-Trichlorophenol	196	11.919	11.928	(0.912)	77709	25.0000	24.88
$	36 2-Fluorobiphenyl	172	12.000	12.008	(0.918)	250487	25.0000	24.43
	37 2-Chloronaphthalene	162	12.139	12.147	(0.928)	227831	25.0000	25.53
	38 2-Nitroaniline	65	12.374	12.387	(0.946)	93804	25.0000	22.98
	39 Dimethylphthalate	163	12.748	12.767	(0.975)	247039	25.0000	25.14
	40 Acenaphthylene	152	12.817	12.826	(0.980)	352398	25.0000	25.40
	41 2,6-Dinitrotoluene	165	12.844	12.858	(0.982)	55446	25.0000	25.24
*	42 Acenaphthene-d10	164	13.073	13.077	(1.000)	147142	20.0000	
	43 3-Nitroaniline	138	13.057	13.071	(0.999)	58401	25.0000	22.99
	44 Acenaphthene	153	13.121	13.135	(1.004)	213541	25.0000	25.45
	45 2,4-Dinitrophenol	184	13.218	13.237	(1.011)	47458	50.0000	75.83
	46 Dibenzofuran	168	13.389	13.397	(1.024)	295003	25.0000	22.53
	47 4-Nitrophenol	109	13.340	13.360	(1.020)	42239	25.0000	25.53
	48 2,4-Dinitrotoluene	165	13.469	13.488	(1.030)	72668	25.0000	25.66
	50 Diethylphthalate	149	13.907	13.921	(1.064)	248022	25.0000	25.44
	49 Fluorene	166	13.944	13.958	(1.067)	239580	25.0000	24.99
	51 4-Chlorophenyl-phenylether	204	13.971	13.979	(1.069)	118030	25.0000	24.70
	52 4-Nitroaniline	138	14.056	14.086	(1.075)	56673	25.0000	23.67
	53 4,6-Dinitro-2-methylphenol	198	14.126	14.156	(0.914)	81480	50.0000	62.92
	54 N-Nitrosodiphenylamine	169	14.174	14.193	(0.917)	165345	25.0000	25.42
$	55 2,4,6-Tribromophenol	330	14.371	14.380	(1.099)	33974	25.0000	24.30
	56 4-Bromophenyl-phenylether	248	14.756	14.765	(0.954)	69024	25.0000	25.61
	57 Hexachlorobenzene	284	14.980	14.989	(0.969)	74040	25.0000	25.72
	58 Pentachlorophenol	266	15.274	15.283	(0.988)	47327	25.0000	27.26
*	59 Phenanthrene-d10	188	15.461	15.470	(1.000)	207740	20.0000	
	60 Phenanthrene	178	15.499	15.513	(1.002)	324506	25.0000	25.23
	61 Anthracene	178	15.573	15.587	(1.007)	339238	25.0000	25.38
	62 Carbazole	167	15.851	15.865	(1.025)	290572	25.0000	25.37
	63 Di-n-butylphthalate	149	16.567	16.576	(1.072)	377081	25.0000	25.73
	64 Fluoranthene	202	17.443	17.452	(1.128)	350878	25.0000	25.58
	65 Pyrene	202	17.801	17.815	(0.899)	355413	25.0000	25.82
$	66 Terphenyl-d14	244	18.111	18.125	(0.915)	238635	25.0000	25.36
	67 Butylbenzylphthalate	149	18.998	19.006	(0.960)	166185	25.0000	26.84
	68 Benzo(a)anthracene	228	19.767	19.781	(0.999)	355290	25.0000	25.81
*	69 Chrysene-d12	240	19.794	19.808	(1.000)	219615	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.772	19.792	(0.999)	123045	25.0000	22.55
	71 Chrysene	228	19.837	19.856	(1.002)	338018	25.0000	25.11
	72 bis(2-Ethylhexyl)phthalate	149	19.991	20.000	(0.955)	231897	25.0000	27.63
*	134 Di-n-octylphthalate-d4	153	20.926	20.935	(1.000)	314948	20.0000	
	73 Di-n-octylphthalate	149	20.937	20.946	(1.000)	428899	25.0000	25.20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	21.428	21.453	(0.976)	418131	25.0000	26.55
75	Benzo(k)fluoranthene	252	21.466	21.496	(0.977)	394220	25.0000	24.41
76	Benzo(a)pyrene	252	21.883	21.902	(0.996)	376195	25.0000	26.60
* 77	Perylene-d12	264	21.963	21.971	(1.000)	251306	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	23.533	23.563	(1.071)	522507	25.0000	28.48
79	Dibenzo(a,h)anthracene	278	23.555	23.590	(1.072)	442165	25.0000	28.96
80	Benzo(g,h,i)perylene	276	23.971	24.017	(1.091)	460046	25.0000	29.23
90	N-Nitrosodimethylamine	74	3.506	3.541	(0.431)	121341	25.0000	25.30
103	Pyridine	79	3.484	3.487	(0.428)	215145	25.0000	26.57 (M)
91	Aniline	93	7.689	7.697	(0.945)	271769	25.0000	23.56
105	1-methylnaphthalene	141	11.524	11.533	(1.124)	190689	25.0000	25.03
93	Benzidine	184	17.694	17.703	(0.894)	140778	25.0000	21.46
111	Azobenzene (1,2-DP-Hydrazine)	77	14.222	14.236	(1.088)	333442	25.0000	25.51
143	1,4-Dioxane	88	2.779	2.793	(0.342)	78615	25.0000	26.51
$ 137	d8-1,4-Dioxane	96	2.726	2.740	(0.335)	77148	25.0000	25.08
144	alpha-Terpineol	59	10.247	10.261	(0.999)	105495	25.0000	25.32
98	Retene	219	18.362	18.371	(0.928)	127079	25.0000	25.66
133	Butylatedhydroxytoluene	205	13.244	13.253	(1.013)	201357	25.0000	25.28
115	Tributyl Phosphate	99	14.270	14.295	(0.923)	299887	25.0000	24.54
116	Dibutyl Phenyl Phosphate	175	16.006	16.015	(1.035)	171179	25.0000	25.46
117	Butyl Diphenyl Phosphate	94	17.705	17.714	(0.894)	76779	25.0000	25.76
118	Triphenyl Phosphate	326	19.313	19.327	(0.976)	64679	25.0000	25.36
123	Acetophenone	105	8.842	8.856	(1.087)	193878	25.0000	25.41
179	n-Decane	57	7.966	7.975	(0.979)	162056	25.0000	23.17
180	n-Octadecane	57	15.370	15.374	(0.994)	163821	25.0000	23.73
168	Pentachlorobenzene	250	13.431	13.440	(1.027)	90982	25.0000	25.26
113	Diphenyl Oxide	170	12.331	12.334	(0.943)	143726	25.0000	22.98
112	Biphenyl	154	12.133	12.147	(0.928)	294734	25.0000	22.54

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 0251030.d
Lab Smp Id: ABN 25
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20081030.b/SW846.m
Misc Info:

Calibration Date: 30-OCT-2008
Calibration Time: 16:58

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	81566	40783	163132	81566	0.00
27 Naphthalene-d8	282544	141272	565088	282544	0.00
42 Acenaphthene-d10	147142	73571	294284	147142	0.00
59 Phenanthrene-d10	207740	103870	415480	207740	0.00
69 Chrysene-d12	219615	109808	439230	219615	0.00
134 Di-n-octylphthala	314948	157474	629896	314948	0.00
77 Perylene-d12	251306	125653	502612	251306	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.14	7.64	8.64	8.14	0.00
27 Naphthalene-d8	10.19	9.69	10.69	10.19	0.00
42 Acenaphthene-d10	13.07	12.57	13.57	13.07	0.00
59 Phenanthrene-d10	15.46	14.96	15.96	15.46	0.00
69 Chrysene-d12	19.79	19.29	20.29	19.79	0.00
134 Di-n-octylphthala	20.93	20.43	21.43	20.93	0.00
77 Perylene-d12	21.96	21.46	22.46	21.96	0.00

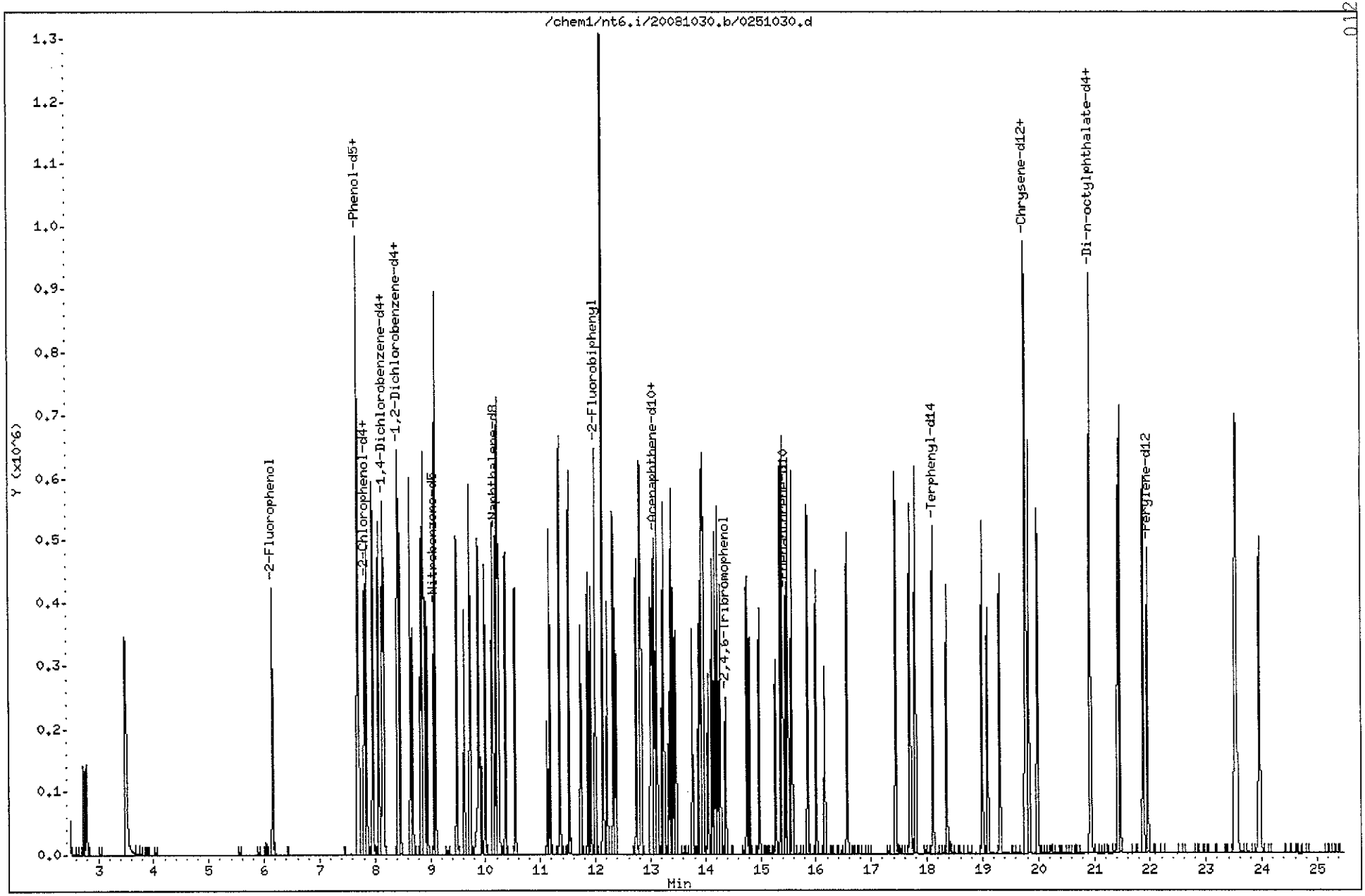
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt6.i/20081030.b/0251030.d
Date : 30-OCT-2008 16:58
Client ID:
Sample Info: ABN 25

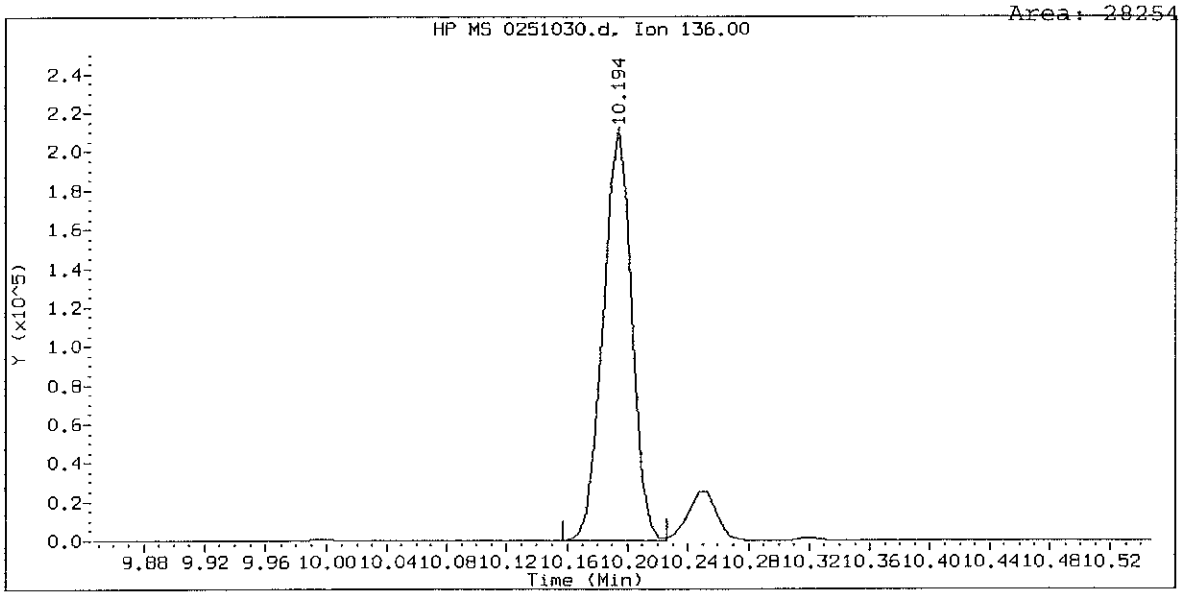
Instrument: nt6.i

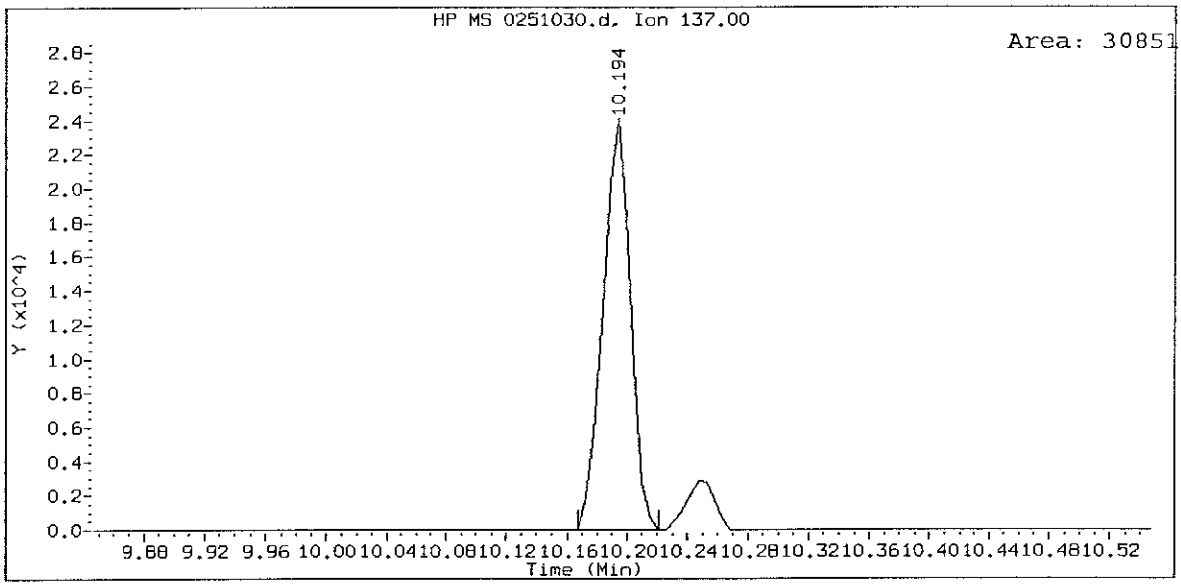
Operator: LJR/VTS
Column diameter: 0.32

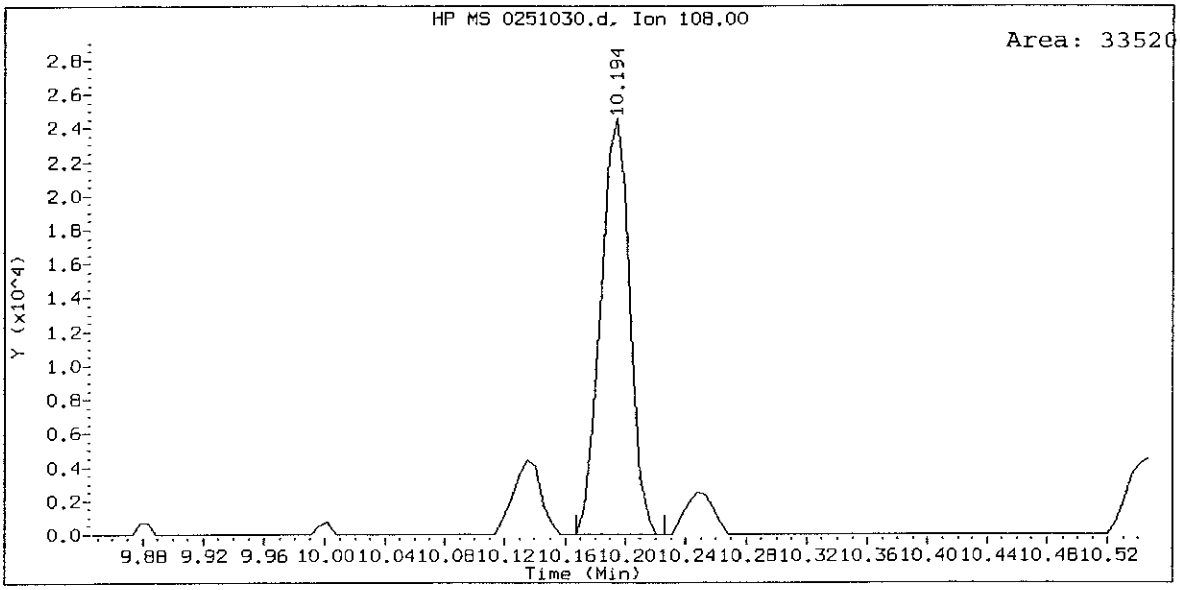
Column phase: ZB-5



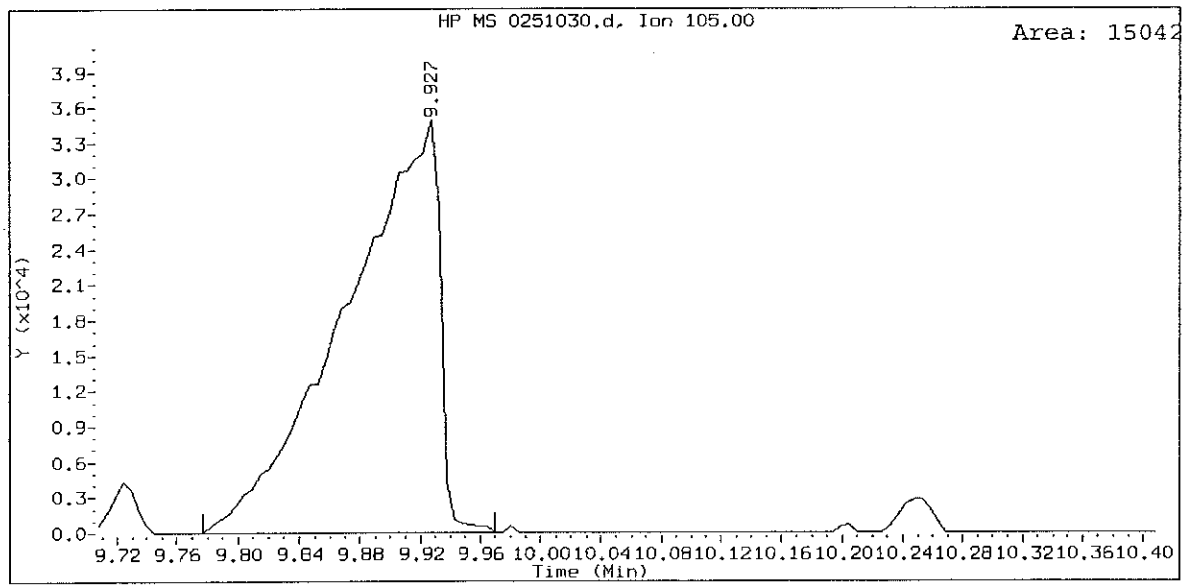
ABN 25, /chem1/nt6.i/20081030.b/0251030.d
Naphthalene-d8 Amount: 20.00

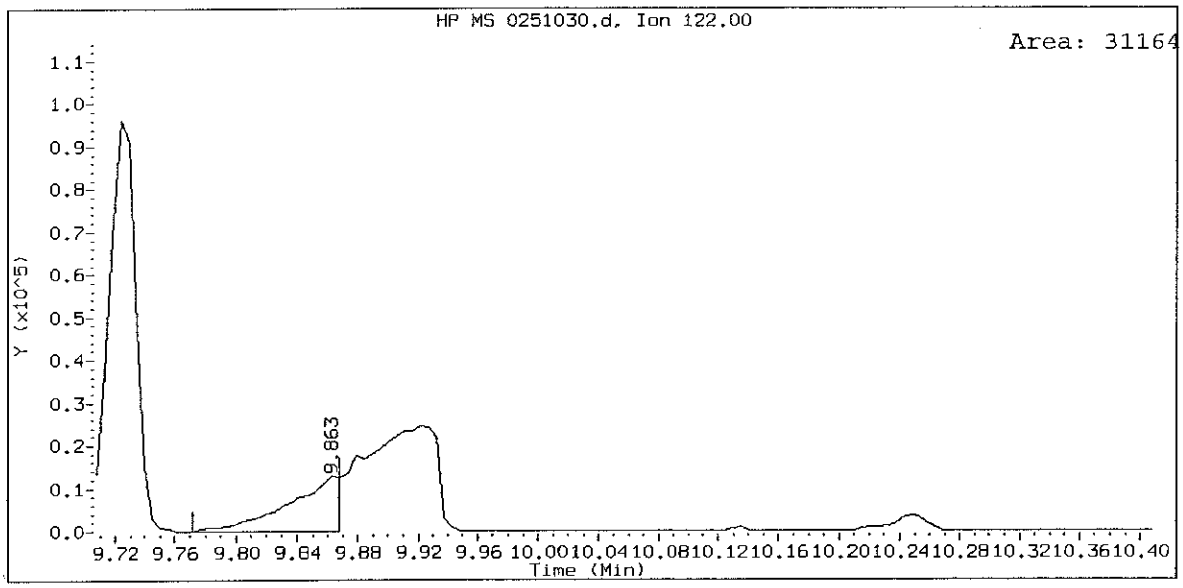


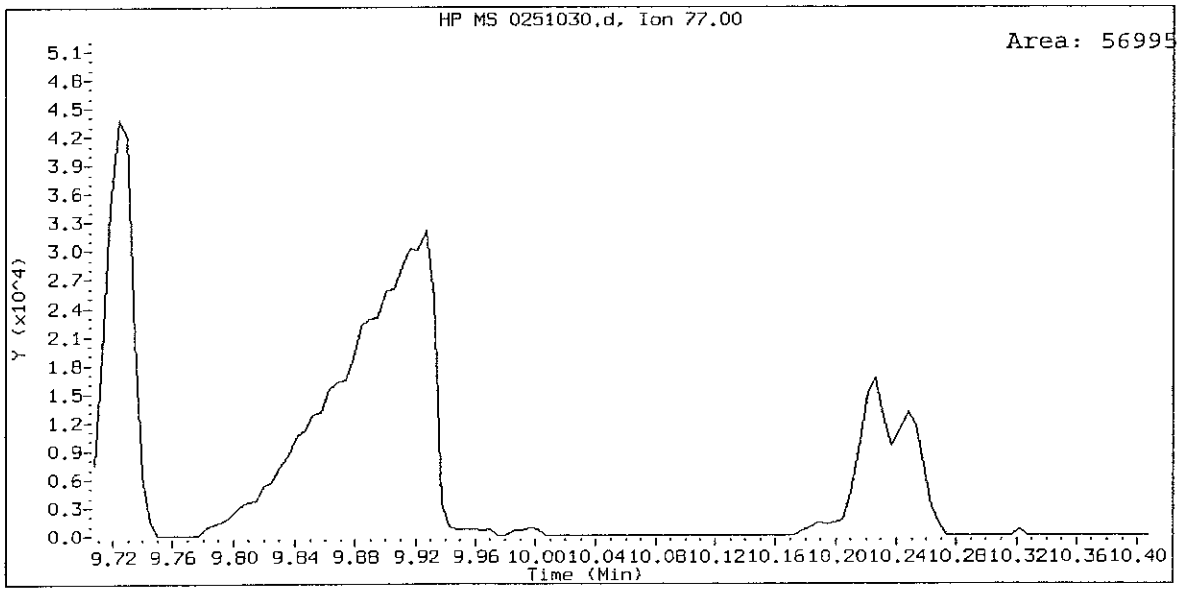




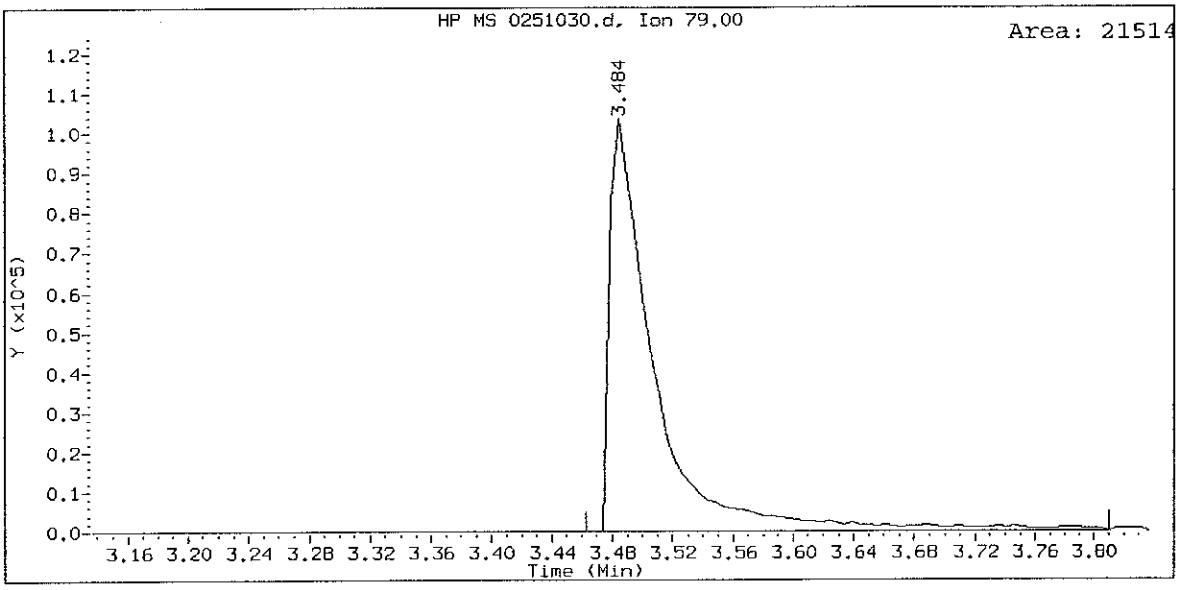
ABN 25, /chem1/nt6.i/20081030.b/0251030.d
Benzoic acid Amount: 59.03

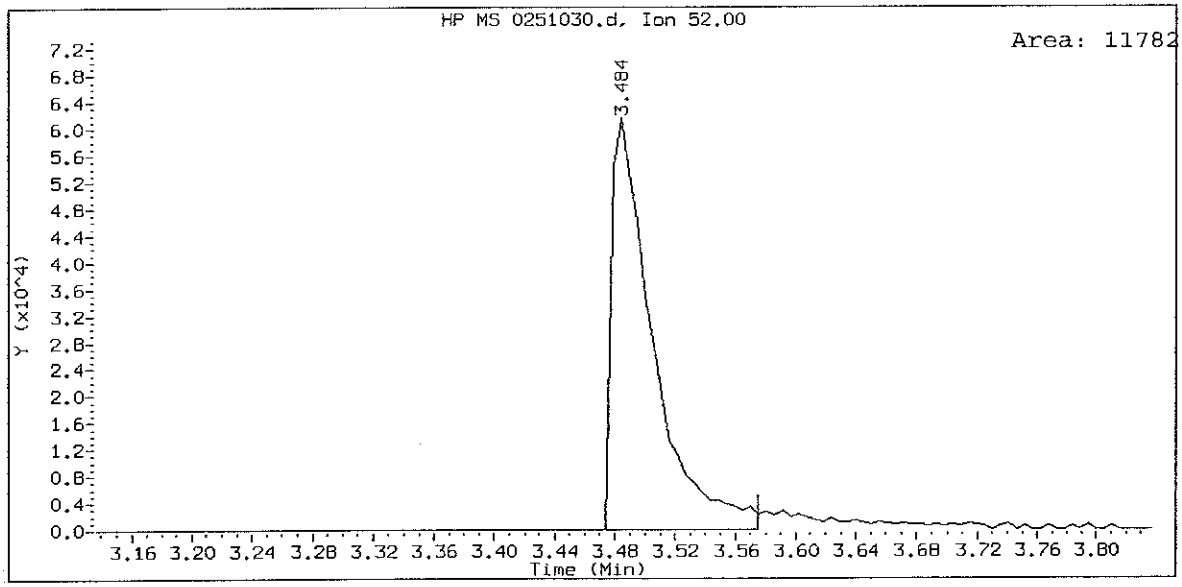






ABN 25, /chem1/nt6.i/20081030.b/0251030.d
Pyridine Amount: 26.57





Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem1/nt6.i/20081030.b/ddt.b/0251030.d ARI ID:
Method: /chem1/nt6.i/20081030.b/ddt.b/sw846ddt.m Misc:
Analysis Date: 30-OCT-2008 16:58 Instrument: nt6.i

COMPOUND	RT	AREA
Pentachlorophenol	15.274	47327
Benzidine	17.694	140435
4,4'-DDE	----	----
4,4'-DDD	----	----
4,4'-DDT	19.094	108286

LJK 10/31/08

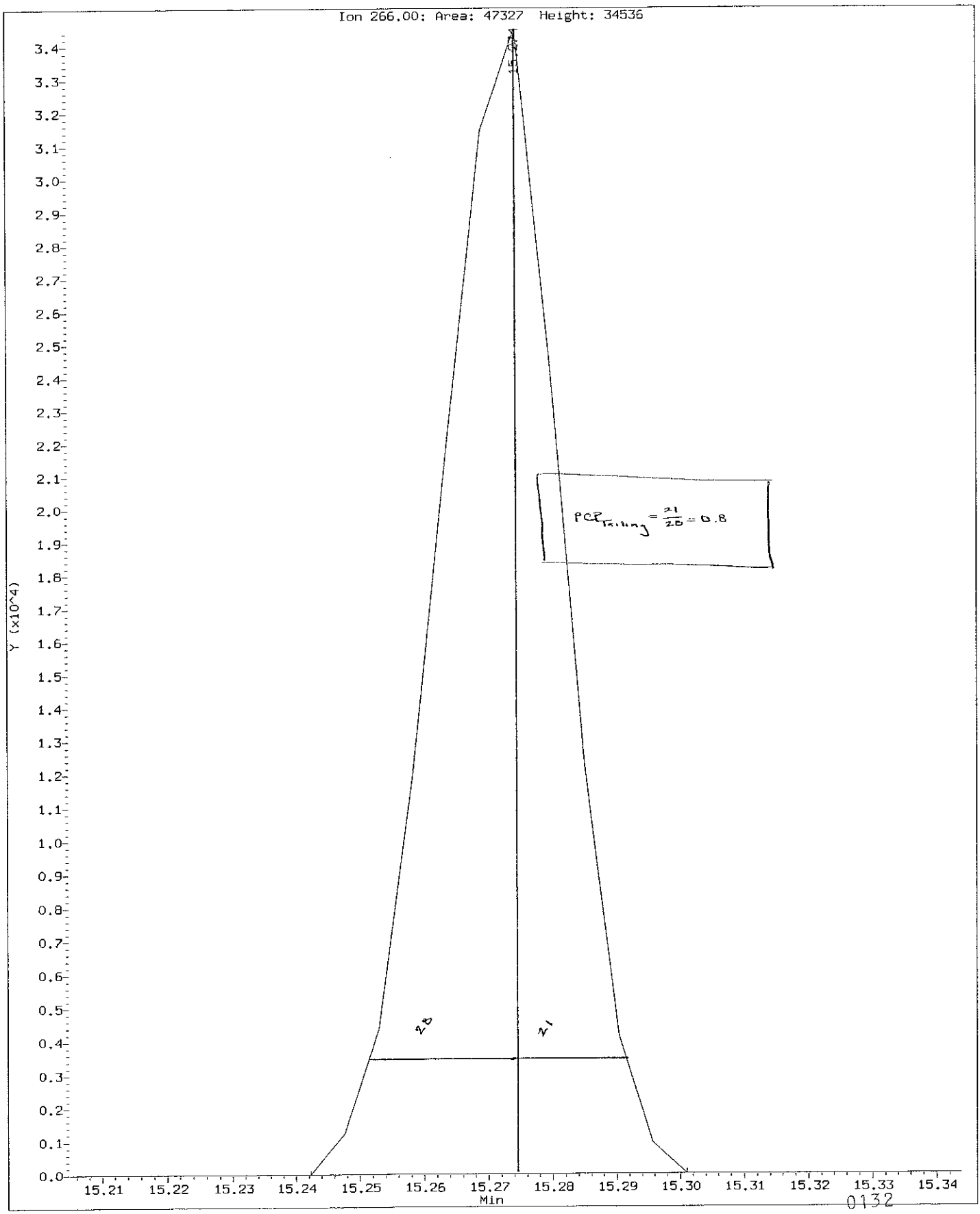
$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(0 + 0) * 100}{(0 + 0 + 108286)}$$

DDT Percent Breakdown = 0.0 %

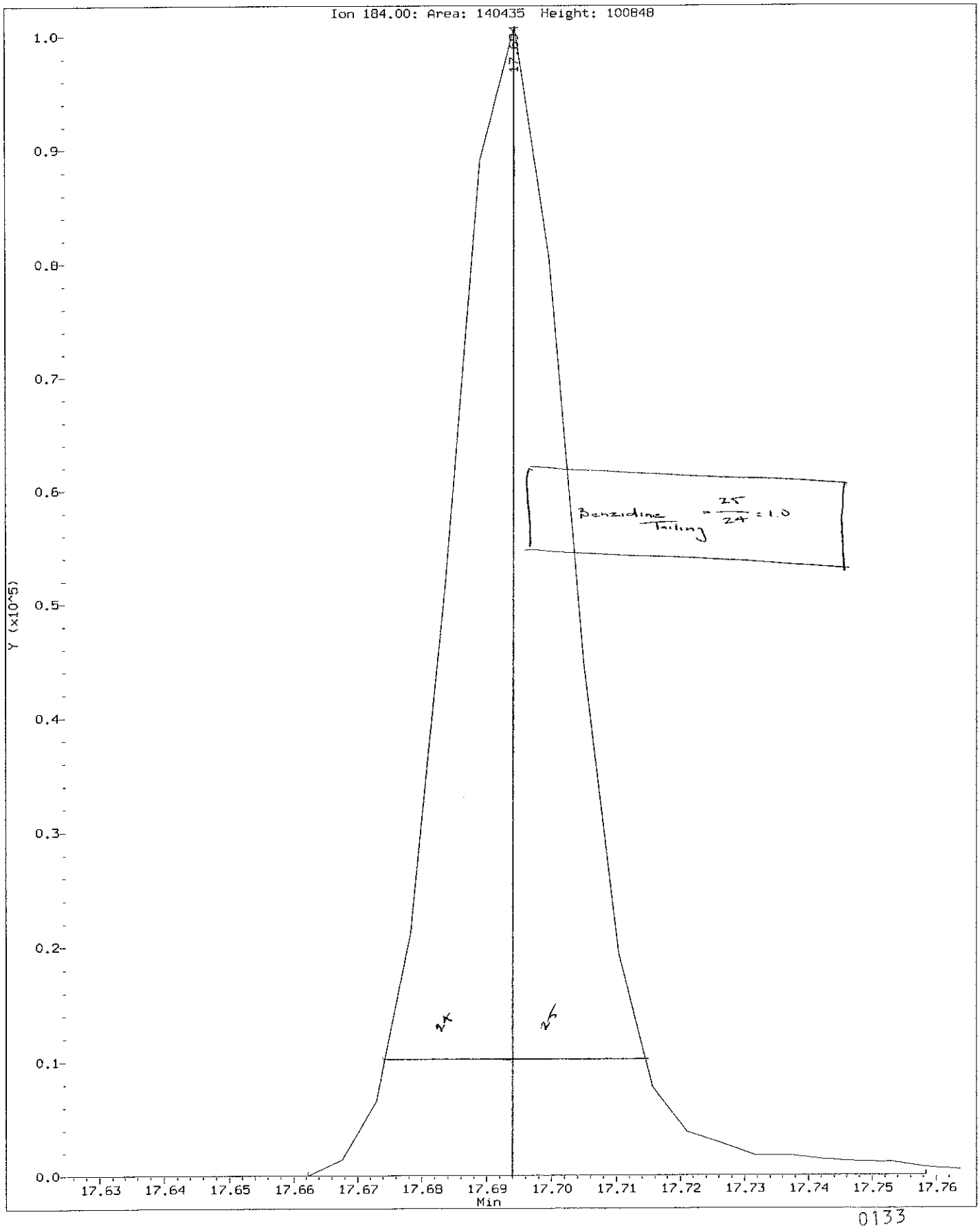
Data File: /chem1/nt6.i/20081030.b/ddt.b/0251030.d
Injection Date: 30-OCT-2008 16:58
Instrument: nt6.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem1/nt6.i/20081030.b/ddt.b/0251030.d
Injection Date: 30-OCT-2008 16:58
Instrument: nt6.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20081030.b/0401030.d
Lab Smp Id: ABN 40
Inj Date : 30-OCT-2008 18:41
Operator : LJR/VTS
Smp Info : ABN 40
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20081030.b/SW846.m
Meth Date : 31-Oct-2008 11:27 jeff
Cal Date : 30-OCT-2008 18:41
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50

Inst ID: nt6.i

LJR 10/31/08

Quant Type: ISTD
Cal File: 0401030.d
Calibration Sample, Level: 5

Compound Sublist: ICAL.sub

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.152	6.159	(0.756)	217416	40.0000	39.88
$	2 Phenol-d5	99	7.696	7.713	(0.946)	296582	40.0000	40.34
	3 Phenol	94	7.718	7.734	(0.948)	348802	40.0000	41.13
$	5 2-Chlorophenol-d4	132	7.830	7.841	(0.962)	188697	40.0000	39.90
	4 Bis(2-Chloroethyl)ether	93	7.814	7.820	(0.960)	244621	40.0000	41.41
	6 2-Chlorophenol	128	7.856	7.863	(0.965)	222868	40.0000	42.40
	7 1,3-Dichlorobenzene	146	8.075	8.082	(0.992)	235202	40.0000	42.00
*	8 1,4-Dichlorobenzene-d4	152	8.140	8.146	(1.000)	75271	20.0000	
	9 1,4-Dichlorobenzene	146	8.166	8.173	(1.003)	232218	40.0000	41.10
$	10 1,2-Dichlorobenzene-d4	152	8.439	8.445	(1.037)	134292	40.0000	40.36
	12 1,2-Dichlorobenzene	146	8.460	8.466	(1.039)	220038	40.0000	41.44
	11 Benzyl alcohol	108	8.423	8.434	(1.035)	155850	40.0000	40.95
	14 2,2'-oxybis(1-Chloropropane)	45	8.684	8.691	(1.067)	300404	40.0000	41.15
	13 2-Methylphenol	108	8.652	8.664	(1.063)	212158	40.0000	41.73
	17 Hexachloroethane	117	8.952	8.952	(1.100)	101865	40.0000	42.37
	16 N-Nitroso-di-n-propylamine	70	8.909	8.926	(1.095)	195116	40.0000	41.93
	15 4-Methylphenol	108	8.887	8.904	(1.092)	220634	40.0000	41.83
$	18 Nitrobenzene-d5	82	9.080	9.091	(0.890)	277019	40.0000	39.31
	19 Nitrobenzene	77	9.107	9.118	(0.893)	299962	40.0000	40.23
	20 Isophorone	82	9.491	9.508	(0.931)	474764	40.0000	41.01
	21 2-Nitrophenol	139	9.625	9.631	(0.944)	113405	40.0000	41.82
	22 2,4-Dimethylphenol	107	9.726	9.738	(0.954)	228550	40.0000	41.91
	23 Bis(2-Chloroethoxy)methane	93	9.881	9.893	(0.969)	273008	40.0000	41.44
	24 Benzoic acid	105	9.977	10.058	(0.979)	285504	80.0000	105.9 (M)
	25 2,4-Dichlorophenol	162	10.004	10.016	(0.981)	162796	40.0000	40.63
	26 1,2,4-Trichlorobenzene	180	10.138	10.144	(0.994)	181762	40.0000	40.68
*	27 Naphthalene-d8	136	10.196	10.197	(1.000)	266516	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	10.228	10.235	(1.003)	587654	40.0000	40.78
	29 4-Chloroaniline	127	10.373	10.379	(1.017)	226243	40.0000	36.55
	30 Hexachlorobutadiene	225	10.544	10.550	(1.034)	104532	40.0000	40.73
	31 4-Chloro-3-methylphenol	107	11.174	11.185	(1.096)	188715	40.0000	40.75
	32 2-Methylnaphthalene	141	11.356	11.362	(1.114)	306290	40.0000	37.50
	33 Hexachlorocyclopentadiene	237	11.735	11.736	(0.897)	124855	40.0000	42.42
	34 2,4,6-Trichlorophenol	196	11.868	11.875	(0.908)	117287	40.0000	41.66
	35 2,4,5-Trichlorophenol	196	11.922	11.928	(0.912)	123625	40.0000	41.75
$	36 2-Fluorobiphenyl	172	12.002	12.008	(0.918)	373954	40.0000	39.22
	37 2-Chloronaphthalene	162	12.141	12.147	(0.928)	344936	40.0000	41.09
	38 2-Nitroaniline	65	12.376	12.387	(0.946)	142590	40.0000	38.00
	39 Dimethylphthalate	163	12.750	12.767	(0.975)	377738	40.0000	40.91
	40 Acenaphthylene	152	12.819	12.826	(0.980)	540643	40.0000	41.35
	41 2,6-Dinitrotoluene	165	12.846	12.858	(0.982)	85935	40.0000	41.38
*	42 Acenaphthene-d10	164	13.076	13.077	(1.000)	137474	20.0000	
	43 3-Nitroaniline	138	13.060	13.071	(0.999)	80481	40.0000	35.25
	44 Acenaphthene	153	13.129	13.135	(1.004)	324227	40.0000	41.08
	45 2,4-Dinitrophenol	184	13.225	13.237	(1.011)	96307	80.0000	130.2
	46 Dibenzofuran	168	13.391	13.397	(1.024)	456510	40.0000	37.82
	47 4-Nitrophenol	109	13.348	13.360	(1.021)	71298	40.0000	44.43
	48 2,4-Dinitrotoluene	165	13.476	13.488	(1.031)	113421	40.0000	42.11
	50 Diethylphthalate	149	13.914	13.921	(1.064)	385745	40.0000	41.85
	49 Fluorene	166	13.952	13.958	(1.067)	371569	40.0000	41.17
	51 4-Chlorophenyl-phenylether	204	13.973	13.979	(1.069)	184860	40.0000	41.12
	52 4-Nitroaniline	138	14.064	14.086	(1.076)	88669	40.0000	39.73
	53 4,6-Dinitro-2-methylphenol	198	14.139	14.156	(0.914)	145772	80.0000	103.8
	54 N-Nitrosodiphenylamine	169	14.182	14.193	(0.917)	261522	40.0000	40.93
$	55 2,4,6-Tribromophenol	330	14.374	14.380	(1.099)	53825	40.0000	40.90
	56 4-Bromophenyl-phenylether	248	14.758	14.765	(0.954)	108880	40.0000	41.08
	57 Hexachlorobenzene	284	14.978	14.989	(0.969)	115186	40.0000	40.78
	58 Pentachlorophenol	266	15.277	15.283	(0.988)	80704	40.0000	45.44
*	59 Phenanthrene-d10	188	15.464	15.470	(1.000)	202859	20.0000	
	60 Phenanthrene	178	15.501	15.513	(1.002)	513157	40.0000	40.68
	61 Anthracene	178	15.576	15.587	(1.007)	533267	40.0000	40.68
	62 Carbazole	167	15.859	15.865	(1.026)	469256	40.0000	41.55
	63 Di-n-butylphthalate	149	16.569	16.576	(1.071)	620045	40.0000	42.61
	64 Fluoranthene	202	17.446	17.452	(1.128)	578605	40.0000	42.51
	65 Pyrene	202	17.804	17.815	(0.899)	587349	40.0000	37.68
$	66 Terphenyl-d14	244	18.119	18.125	(0.915)	404250	40.0000	37.88
	67 Butylbenzylphthalate	149	19.000	19.006	(0.960)	301026	40.0000	41.82
	68 Benzo(a)anthracene	228	19.775	19.781	(0.999)	647055	40.0000	40.72
*	69 Chrysene-d12	240	19.801	19.808	(1.000)	252355	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.780	19.792	(0.999)	226152	40.0000	36.97
	71 Chrysene	228	19.844	19.856	(1.002)	621112	40.0000	40.13
	72 bis(2-Ethylhexyl)phthalate	149	19.994	20.000	(0.955)	429612	40.0000	42.48
*	134 Di-n-octylphthalate-d4	153	20.929	20.935	(1.000)	373607	20.0000	
	73 Di-n-octylphthalate	149	20.939	20.946	(1.000)	810583	40.0000	40.12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	21.442	21.453	(0.976)	789380	40.0000	42.44
75	Benzo(k)fluoranthene	252	21.474	21.496	(0.978)	765279	40.0000	40.60
76	Benzo(a)pyrene	252	21.890	21.902	(0.997)	713999	40.0000	42.69
* 77	Perylene-d12	264	21.965	21.971	(1.000)	292201	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	23.536	23.563	(1.071)	886687	40.0000	41.25
79	Dibenzo(a,h)anthracene	278	23.568	23.590	(1.073)	757367	40.0000	42.10
80	Benzo(g,h,i)perylene	276	23.984	24.017	(1.092)	758829	40.0000	41.16
90	N-Nitrosodimethylamine	74	3.513	3.541	(0.432)	179982	40.0000	40.49
103	Pyridine	79	3.481	3.487	(0.428)	324416	40.0000	42.51(M)
91	Aniline	93	7.691	7.697	(0.945)	397659	40.0000	37.98
105	1-methylnaphthalene	141	11.527	11.533	(1.130)	285599	40.0000	39.79
93	Benzidine	184	17.697	17.703	(0.894)	208786	40.0000	30.00
111	Azobenzene (1,2-DP-Hydrazine)	77	14.224	14.236	(1.088)	512256	40.0000	41.55
143	1,4-Dioxane	88	2.781	2.793	(0.342)	119823	40.0000	42.98
$ 137	d8-1,4-Dioxane	96	2.728	2.740	(0.335)	115995	40.0000	40.64
144	alpha-Terpineol	59	10.250	10.261	(1.005)	165808	40.0000	41.74
98	Retene	219	18.364	18.371	(0.927)	223211	40.0000	39.38
133	Butylatedhydroxytoluene	205	13.247	13.253	(1.013)	309411	40.0000	41.25
115	Tributyl Phosphate	99	14.278	14.295	(0.923)	497870	40.0000	41.37
116	Dibutyl Phenyl Phosphate	175	16.009	16.015	(1.035)	288937	40.0000	43.14
117	Butyl Diphenyl Phosphate	94	17.707	17.714	(0.894)	137796	40.0000	40.19
118	Triphenyl Phosphate	326	19.321	19.327	(0.976)	122177	40.0000	41.34
123	Acetophenone	105	8.845	8.856	(1.087)	285838	40.0000	40.48
179	n-Decane	57	7.969	7.975	(0.979)	250352	40.0000	39.02
180	n-Octadecane	57	15.368	15.374	(0.994)	262532	40.0000	39.15
168	Pentachlorobenzene	250	13.434	13.440	(1.027)	139869	40.0000	41.24
113	Diphenyl Oxide	170	12.328	12.334	(0.943)	219979	40.0000	38.09
112	Biphenyl	154	12.136	12.147	(0.928)	458419	40.0000	38.00

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 0401030.d
Lab Smp Id: ABN 40
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20081030.b/SW846.m
Misc Info:

Calibration Date: 30-OCT-2008
Calibration Time: 16:58

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	81566	40783	163132	75271	-7.72
27 Naphthalene-d8	282544	141272	565088	266516	-5.67
42 Acenaphthene-d10	147142	73571	294284	137474	-6.57
59 Phenanthrene-d10	207740	103870	415480	202859	-2.35
69 Chrysene-d12	219615	109808	439230	252355	14.91
134 Di-n-octylphthala	314948	157474	629896	373607	18.62
77 Perylene-d12	251306	125653	502612	292201	16.27

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.14	7.64	8.64	8.14	0.03
27 Naphthalene-d8	10.19	9.69	10.69	10.20	0.02
42 Acenaphthene-d10	13.07	12.57	13.57	13.08	0.02
59 Phenanthrene-d10	15.46	14.96	15.96	15.46	0.02
69 Chrysene-d12	19.79	19.29	20.29	19.80	0.04
134 Di-n-octylphthala	20.93	20.43	21.43	20.93	0.01
77 Perylene-d12	21.96	21.46	22.46	21.97	0.01

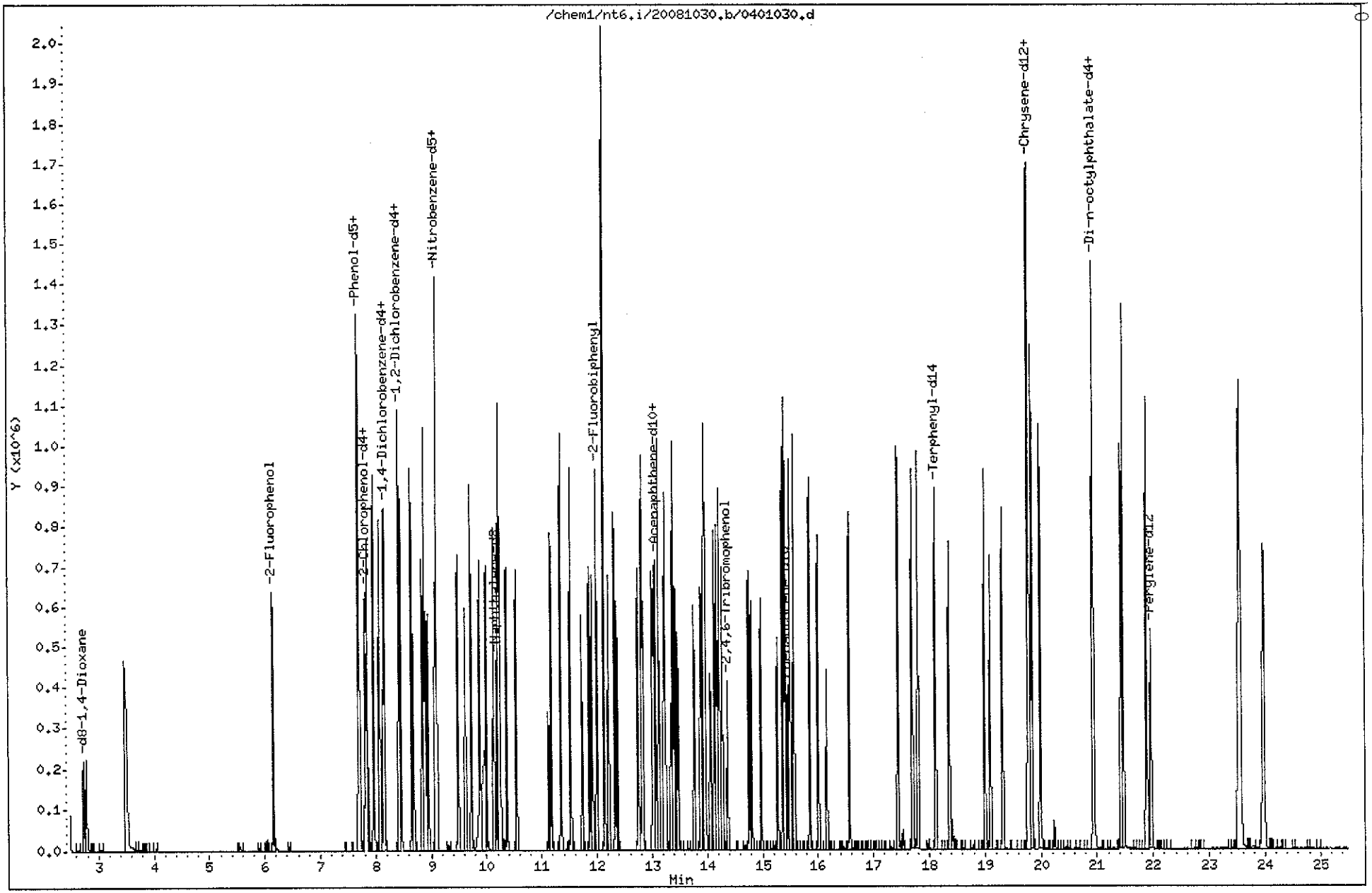
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt6.i/20081030.b/0401030.d
Date : 30-OCT-2008 18:41
Client ID:
Sample Info: ABN 40

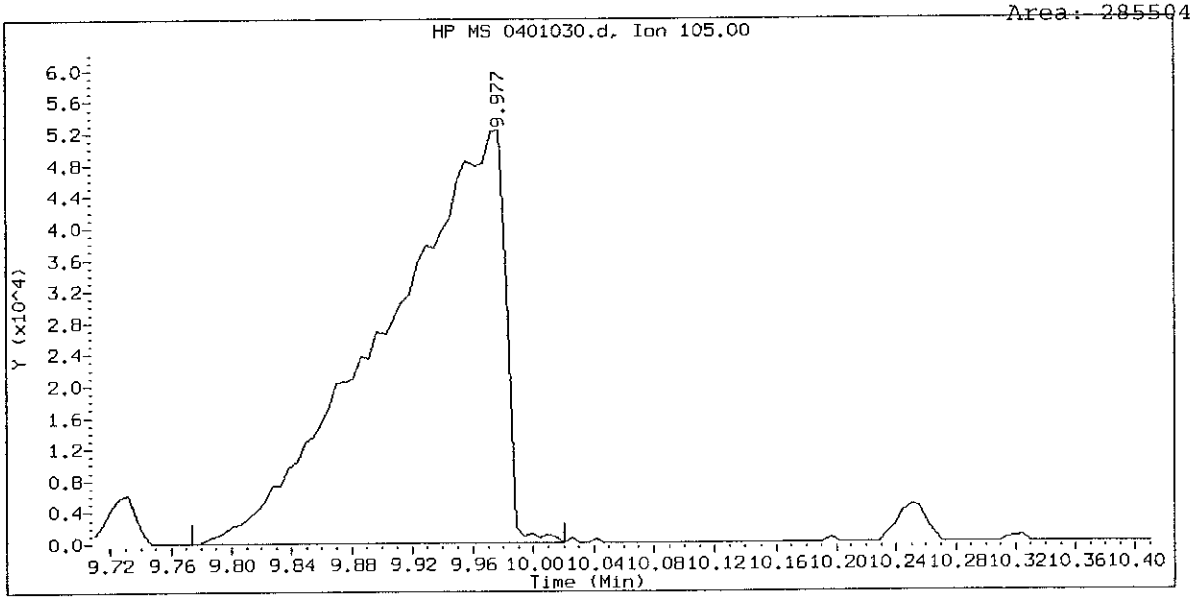
Instrument: nt6.i

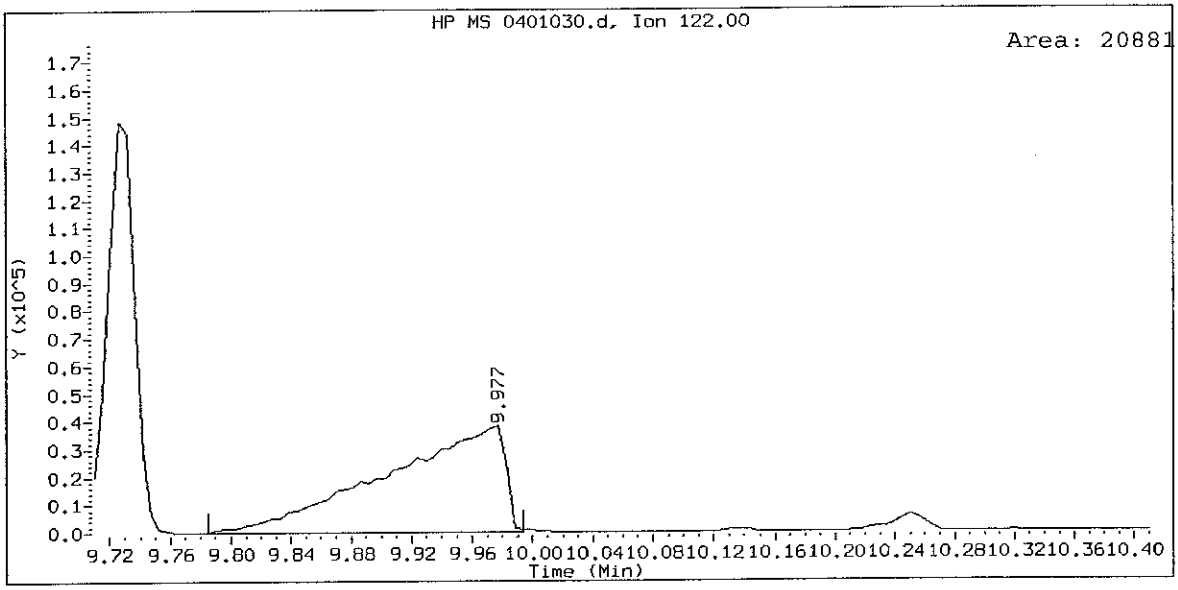
Operator: LJR/VTS
Column diameter: 0.32

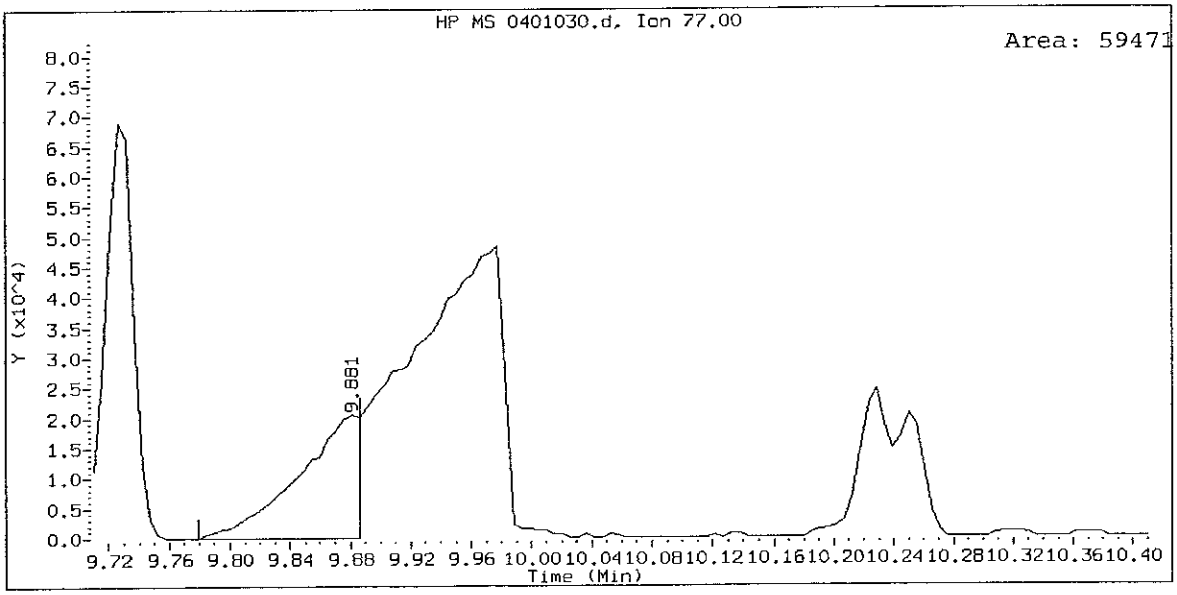
Column phase: ZB-5



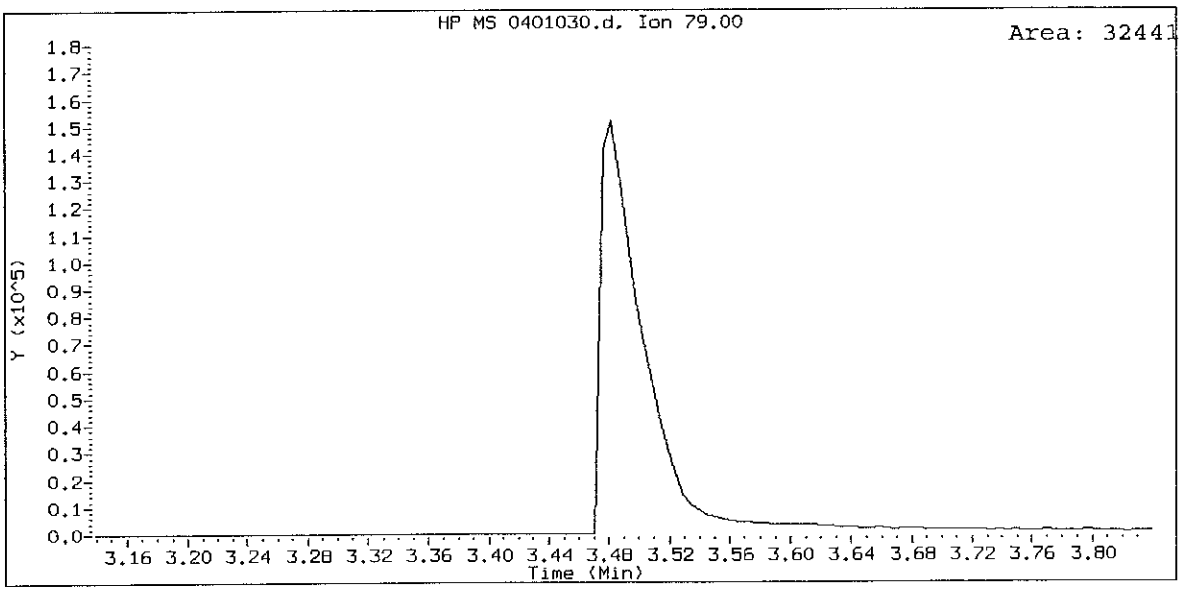
ABN 40, /chem1/nt6.i/20081030.b/0401030.d
Benzoic acid Amount: 105.94

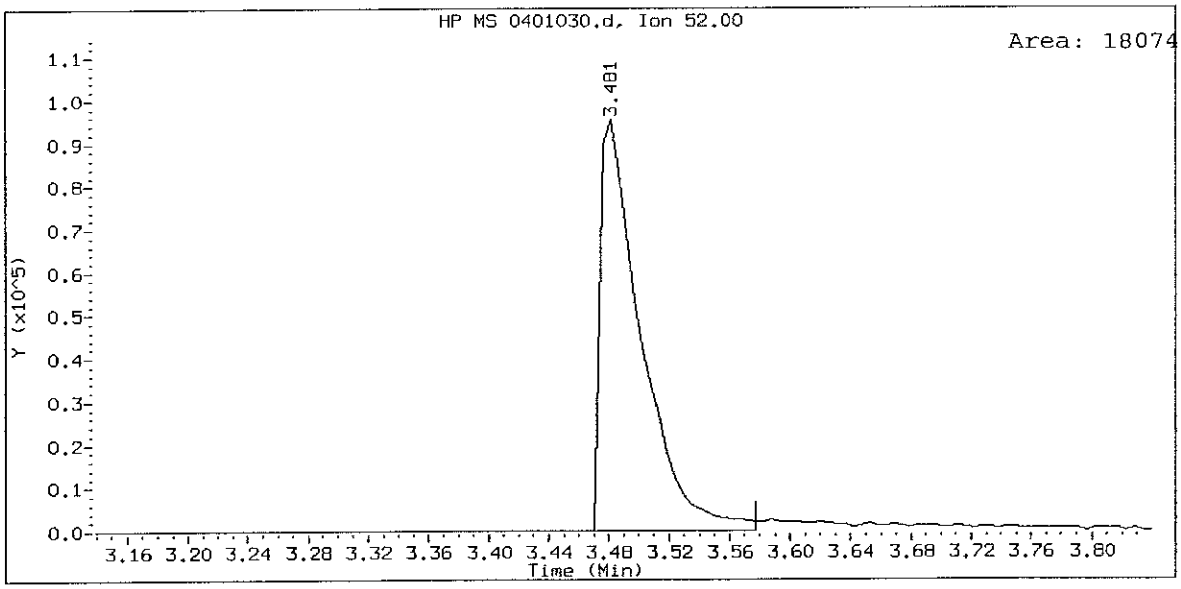






ABN 40, /chem1/nt6.i/20081030.b/0401030.d
Pyridine Amount: 42.51





Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20081030.b/0801030.d
Lab Smp Id: ABN 80
Inj Date : 30-OCT-2008 17:32
Operator : LJR/VTS
Smp Info : ABN 80
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20081030.b/SW846.m
Meth Date : 31-Oct-2008 11:27 jeff
Cal Date : 30-OCT-2008 17:32
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50

Inst ID: nt6.i

LJR 10/31/08

Quant Type: ISTD
Cal File: 0801030.d
Calibration Sample, Level: 6

Compound Sublist: ICAL.sub

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.159	6.159	(0.756)	454198	80.0000	79.08
$	2 Phenol-d5	99	7.713	7.713	(0.947)	621828	80.0000	80.05
	3 Phenol	94	7.734	7.734	(0.950)	718867	80.0000	80.19
$	5 2-Chlorophenol-d4	132	7.841	7.841	(0.963)	396960	80.0000	79.55
	4 Bis(2-Chloroethyl)ether	93	7.820	7.820	(0.960)	505715	80.0000	80.85
	6 2-Chlorophenol	128	7.863	7.863	(0.965)	455182	80.0000	81.64
	7 1,3-Dichlorobenzene	146	8.082	8.082	(0.992)	481755	80.0000	81.19
*	8 1,4-Dichlorobenzene-d4	152	8.146	8.146	(1.000)	79522	20.0000	
	9 1,4-Dichlorobenzene	146	8.173	8.173	(1.003)	480089	80.0000	80.36
$	10 1,2-Dichlorobenzene-d4	152	8.445	8.445	(1.037)	285523	80.0000	81.01
	12 1,2-Dichlorobenzene	146	8.466	8.466	(1.039)	456942	80.0000	81.21
	11 Benzyl alcohol	108	8.434	8.434	(1.035)	330270	80.0000	81.77
	14 2,2'-oxybis(1-Chloropropane)	45	8.691	8.691	(1.067)	640584	80.0000	82.53
	13 2-Methylphenol	108	8.664	8.664	(1.064)	444709	80.0000	82.32
	17 Hexachloroethane	117	8.952	8.952	(1.099)	213307	80.0000	83.28
	16 N-Nitroso-di-n-propylamine	70	8.926	8.926	(1.096)	417165	80.0000	84.01
	15 4-Methylphenol	108	8.904	8.904	(1.093)	464663	80.0000	82.81
$	18 Nitrobenzene-d5	82	9.091	9.091	(0.892)	582035	80.0000	78.52
	19 Nitrobenzene	77	9.118	9.118	(0.894)	617921	80.0000	78.69
	20 Isophorone	82	9.508	9.508	(0.932)	979279	80.0000	80.04
	21 2-Nitrophenol	139	9.631	9.631	(0.944)	243134	80.0000	83.83
	22 2,4-Dimethylphenol	107	9.738	9.738	(0.955)	469580	80.0000	81.24
	23 Bis(2-Chloroethoxy)methane	93	9.893	9.893	(0.970)	574195	80.0000	82.06
	24 Benzoic acid	105	10.058	10.058	(0.986)	660392	160.000	212.8(M)
	25 2,4-Dichlorophenol	162	10.016	10.016	(0.982)	335634	80.0000	79.42
	26 1,2,4-Trichlorobenzene	180	10.144	10.144	(0.995)	376669	80.0000	79.82
*	27 Naphthalene-d8	136	10.197	10.197	(1.000)	281625	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	10.235	10.235	(1.004)	1209212	80.0000	79.51
	29 4-Chloroaniline	127	10.379	10.379	(1.018)	445772	80.0000	70.23
	30 Hexachlorobutadiene	225	10.550	10.550	(1.035)	217458	80.0000	80.16
	31 4-Chloro-3-methylphenol	107	11.185	11.185	(1.097)	387837	80.0000	79.40
	32 2-Methylnaphthalene	141	11.362	11.362	(1.114)	633707	80.0000	74.44
	33 Hexachlorocyclopentadiene	237	11.736	11.736	(0.897)	268957	80.0000	83.00
	34 2,4,6-Trichlorophenol	196	11.875	11.875	(0.908)	243161	80.0000	79.35
	35 2,4,5-Trichlorophenol	196	11.928	11.928	(0.912)	256729	80.0000	79.60
$	36 2-Fluorobiphenyl	172	12.008	12.008	(0.918)	784780	80.0000	76.20
	37 2-Chloronaphthalene	162	12.147	12.147	(0.929)	714248	80.0000	78.35
	38 2-Nitroaniline	65	12.387	12.387	(0.947)	301785	80.0000	74.92
	39 Dimethylphthalate	163	12.767	12.767	(0.976)	794144	80.0000	79.05
	40 Acenaphthylene	152	12.826	12.826	(0.981)	1115683	80.0000	78.54
	41 2,6-Dinitrotoluene	165	12.858	12.858	(0.983)	186922	80.0000	82.02
*	42 Acenaphthene-d10	164	13.077	13.077	(1.000)	149920	20.0000	
	43 3-Nitroaniline	138	13.071	13.071	(1.000)	144969	80.0000	61.58
	44 Acenaphthene	153	13.135	13.135	(1.004)	690847	80.0000	80.22
	45 2,4-Dinitrophenol	184	13.237	13.237	(1.012)	230542	160.000	247.0
	46 Dibenzofuran	168	13.397	13.397	(1.024)	962455	80.0000	74.18
	47 4-Nitrophenol	109	13.360	13.360	(1.022)	140622	80.0000	80.28
	48 2,4-Dinitrotoluene	165	13.488	13.488	(1.031)	242554	80.0000	82.04
	50 Diethylphthalate	149	13.921	13.921	(1.065)	795841	80.0000	79.31
	49 Fluorene	166	13.958	13.958	(1.067)	781940	80.0000	79.55
	51 4-Chlorophenyl-phenylether	204	13.979	13.979	(1.069)	392874	80.0000	80.11
	52 4-Nitroaniline	138	14.086	14.086	(1.077)	187073	80.0000	77.47
	53 4,6-Dinitro-2-methylphenol	198	14.156	14.156	(0.915)	320957	160.000	198.6
	54 N-Nitrosodiphenylamine	169	14.193	14.193	(0.917)	554646	80.0000	80.19
$	55 2,4,6-Tribromophenol	330	14.380	14.380	(1.100)	118289	80.0000	81.93
	56 4-Bromophenyl-phenylether	248	14.765	14.765	(0.954)	226924	80.0000	79.28
	57 Hexachlorobenzene	284	14.989	14.989	(0.969)	243593	80.0000	79.75
	58 Pentachlorophenol	266	15.283	15.283	(0.988)	171229	80.0000	87.12
*	59 Phenanthrene-d10	188	15.470	15.470	(1.000)	219495	20.0000	
	60 Phenanthrene	178	15.513	15.513	(1.003)	1069371	80.0000	78.62
	61 Anthracene	178	15.587	15.587	(1.008)	1124982	80.0000	79.43
	62 Carbazole	167	15.865	15.865	(1.026)	994944	80.0000	81.18
	63 Di-n-butylphthalate	149	16.576	16.576	(1.071)	1262262	80.0000	80.15
	64 Fluoranthene	202	17.452	17.452	(1.128)	1196021	80.0000	81.01
	65 Pyrene	202	17.815	17.815	(0.899)	1230501	80.0000	71.88
$	66 Terphenyl-d14	244	18.125	18.125	(0.915)	859053	80.0000	73.09
	67 Butylbenzylphthalate	149	19.006	19.006	(0.960)	639757	80.0000	79.45
	68 Benzo(a)anthracene	228	19.781	19.781	(0.999)	1374984	80.0000	77.68
*	69 Chrysene-d12	240	19.808	19.808	(1.000)	282715	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.792	19.792	(0.999)	456402	80.0000	68.91
	71 Chrysene	228	19.856	19.856	(1.002)	1325204	80.0000	77.00
	72 bis(2-Ethylhexyl)phthalate	149	20.000	20.000	(0.955)	924098	80.0000	81.24
*	134 Di-n-octylphthalate-d4	153	20.935	20.935	(1.000)	418899	20.0000	
	73 Di-n-octylphthalate	149	20.946	20.946	(1.000)	1701970	80.0000	75.90

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74 Benzo(b)fluoranthene	252	21.453	21.453	(0.976)	1669123	80.0000	82.36
75 Benzo(k)fluoranthene	252	21.496	21.496	(0.978)	1615390	80.0000	79.26
76 Benzo(a)pyrene	252	21.902	21.902	(0.997)	1495732	80.0000	82.12
* 77 Perylene-d12	264	21.971	21.971	(1.000)	316531	20.0000	
78 Indeno(1,2,3-cd)pyrene	276	23.563	23.563	(1.072)	1871819	80.0000	80.31
79 Dibenzo(a,h)anthracene	278	23.590	23.590	(1.074)	1598462	80.0000	81.69
80 Benzo(g,h,i)perylene	276	24.017	24.017	(1.093)	1605399	80.0000	80.33
90 N-Nitrosodimethylamine	74	3.541	3.541	(0.435)	371185	80.0000	79.24
103 Pyridine	79	3.487	3.487	(0.428)	682608	80.0000	83.69 (M)
91 Aniline	93	7.697	7.697	(0.945)	807300	80.0000	74.29
105 1-methylnaphthalene	141	11.533	11.533	(1.131)	603821	80.0000	79.68
93 Benzidine	184	17.703	17.703	(0.894)	402998	80.0000	55.63
111 Azobenzene (1,2-DP-Hydrazine)	77	14.236	14.236	(1.089)	1058211	80.0000	78.91
143 1,4-Dioxane	88	2.793	2.793	(0.343)	249900	80.0000	83.99
$ 137 d8-1,4-Dioxane	96	2.740	2.740	(0.336)	244226	80.0000	80.79
144 alpha-Terpineol	59	10.261	10.261	(1.006)	339695	80.0000	80.76
98 Retene	219	18.371	18.371	(0.927)	466314	80.0000	74.45
133 Butylatedhydroxytoluene	205	13.253	13.253	(1.013)	616540	80.0000	76.11
115 Tributyl Phosphate	99	14.295	14.295	(0.924)	1026687	80.0000	79.03
116 Dibutyl Phenyl Phosphate	175	16.015	16.015	(1.035)	597183	80.0000	81.99
117 Butyl Diphenyl Phosphate	94	17.714	17.714	(0.894)	291226	80.0000	76.48
118 Triphenyl Phosphate	326	19.327	19.327	(0.976)	257382	80.0000	78.10
123 Acetophenone	105	8.856	8.856	(1.087)	603199	80.0000	80.71
179 n-Decane	57	7.975	7.975	(0.979)	529244	80.0000	78.40
180 n-Octadecane	57	15.374	15.374	(0.994)	564782	80.0000	78.19
168 Pentachlorobenzene	250	13.440	13.440	(1.028)	293640	80.0000	79.50
113 Diphenyl Oxide	170	12.334	12.334	(0.943)	467356	80.0000	75.11
112 Biphenyl	154	12.147	12.147	(0.929)	923828	80.0000	71.68

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem1/nt6.i/20081030.b/0801030.d
Report Date: 31-Oct-2008 11:28

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 0801030.d
Lab Smp Id: ABN 80
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20081030.b/SW846.m
Misc Info:

Calibration Date: 30-OCT-2008
Calibration Time: 16:58

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	81566	40783	163132	79522	-2.51
27 Naphthalene-d8	282544	141272	565088	281625	-0.33
42 Acenaphthene-d10	147142	73571	294284	149920	1.89
59 Phenanthrene-d10	207740	103870	415480	219495	5.66
69 Chrysene-d12	219615	109808	439230	282715	28.73
134 Di-n-octylphthala	314948	157474	629896	418899	33.01
77 Perylene-d12	251306	125653	502612	316531	25.95

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.14	7.64	8.64	8.15	0.11
27 Naphthalene-d8	10.19	9.69	10.69	10.20	0.03
42 Acenaphthene-d10	13.07	12.57	13.57	13.08	0.02
59 Phenanthrene-d10	15.46	14.96	15.96	15.47	0.06
69 Chrysene-d12	19.79	19.29	20.29	19.81	0.07
134 Di-n-octylphthala	20.93	20.43	21.43	20.93	0.04
77 Perylene-d12	21.96	21.46	22.46	21.97	0.04

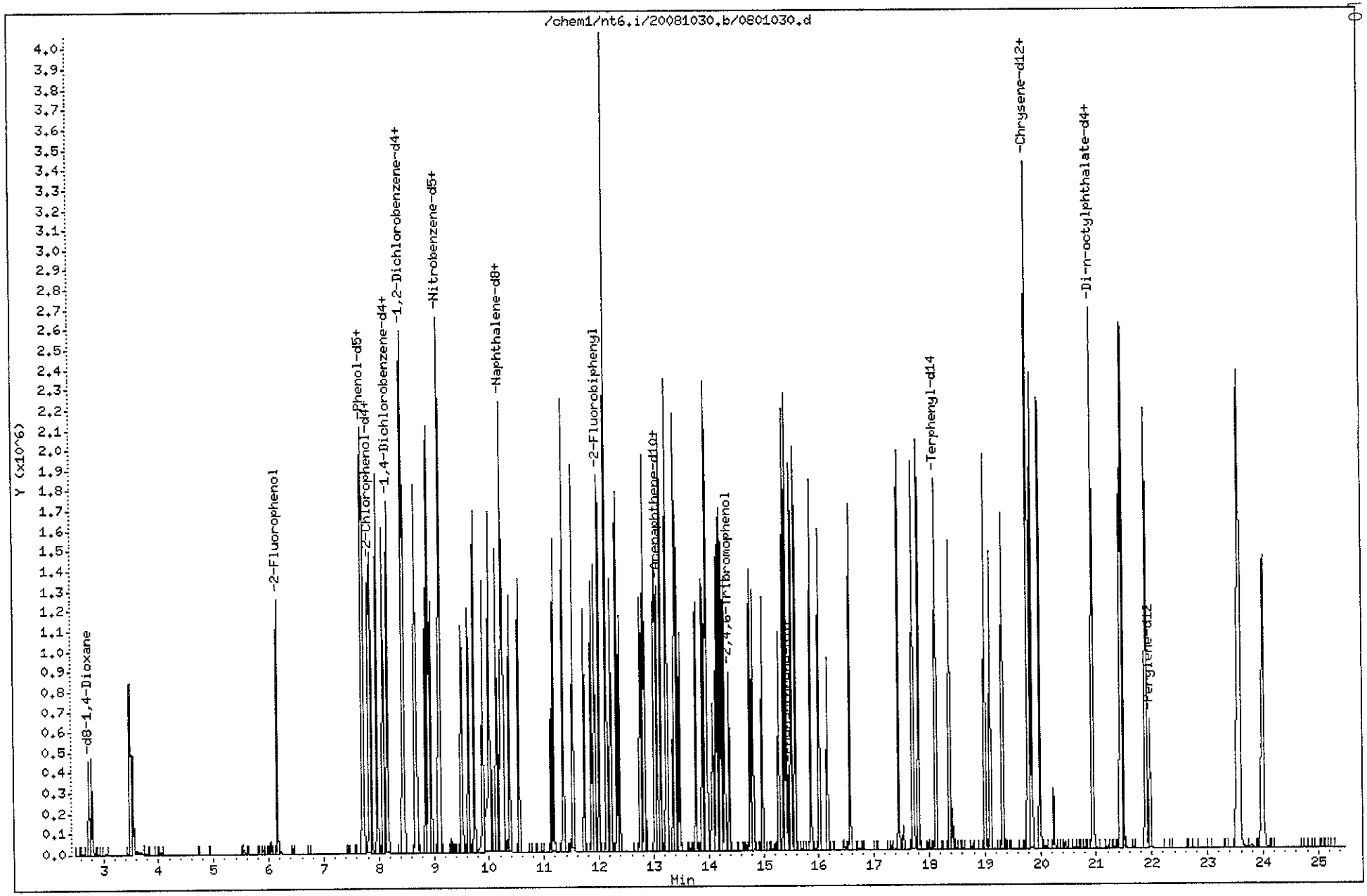
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt6.i/20081030.b/0801030.d
Date : 30-OCT-2008 17:32
Client ID:
Sample Info: ABN 80

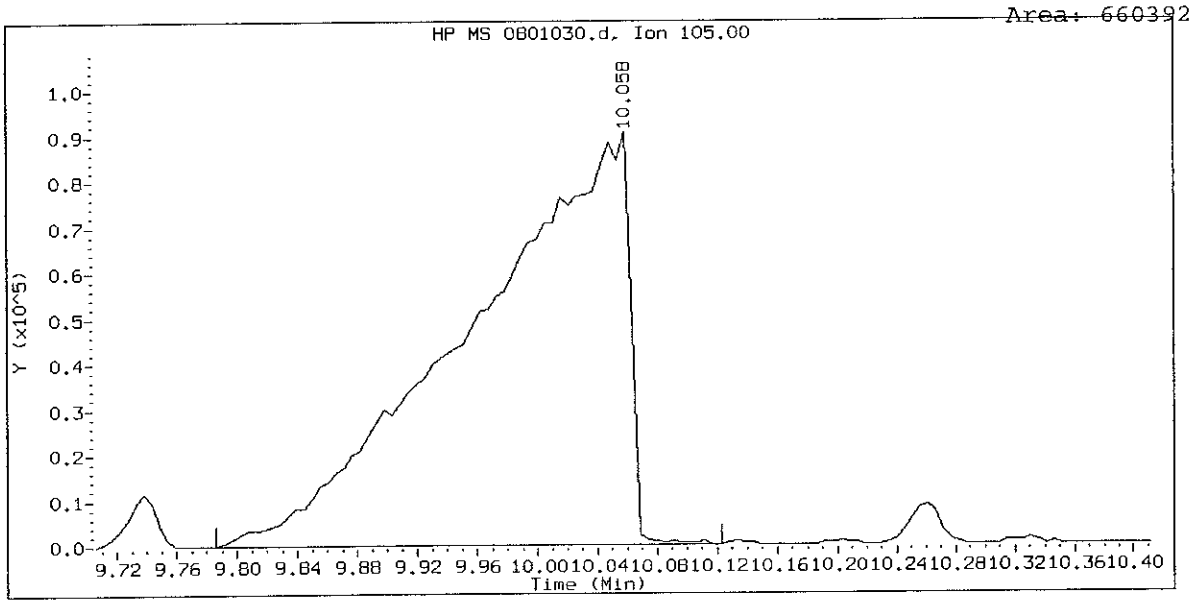
Instrument: nt6.i

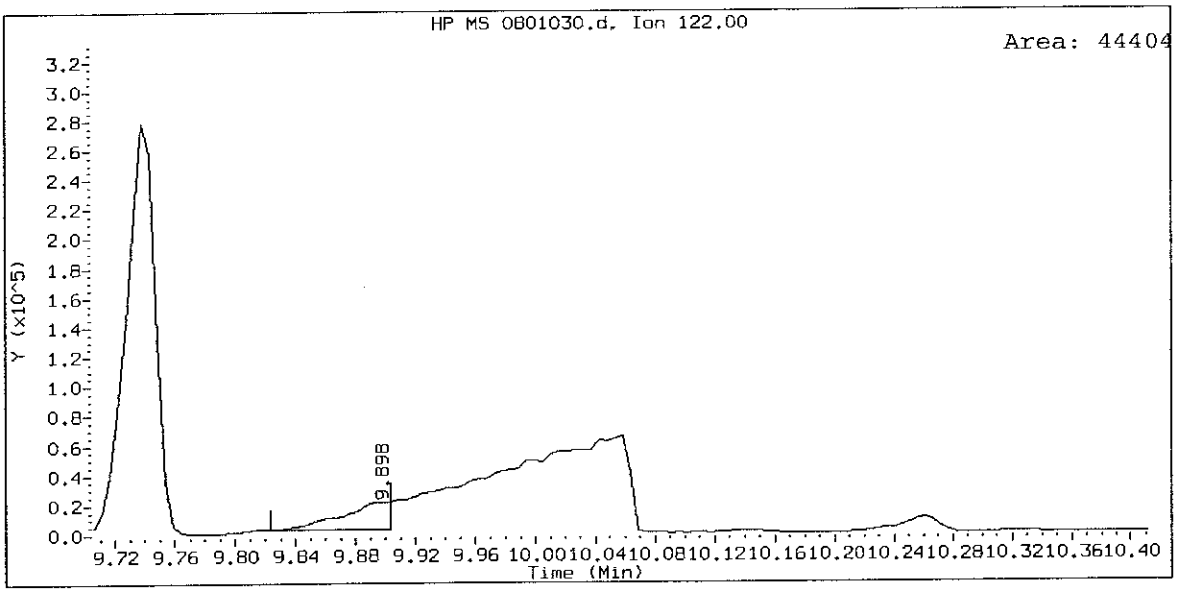
Operator: LJR/VTS
Column diameter: 0.32

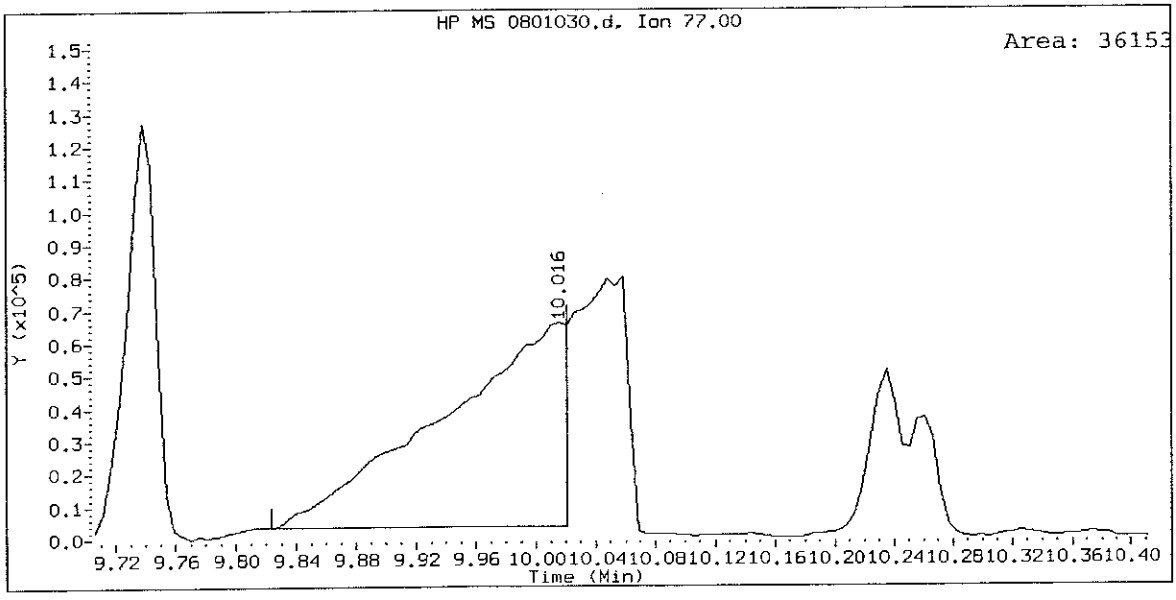
Column phase: ZB-5



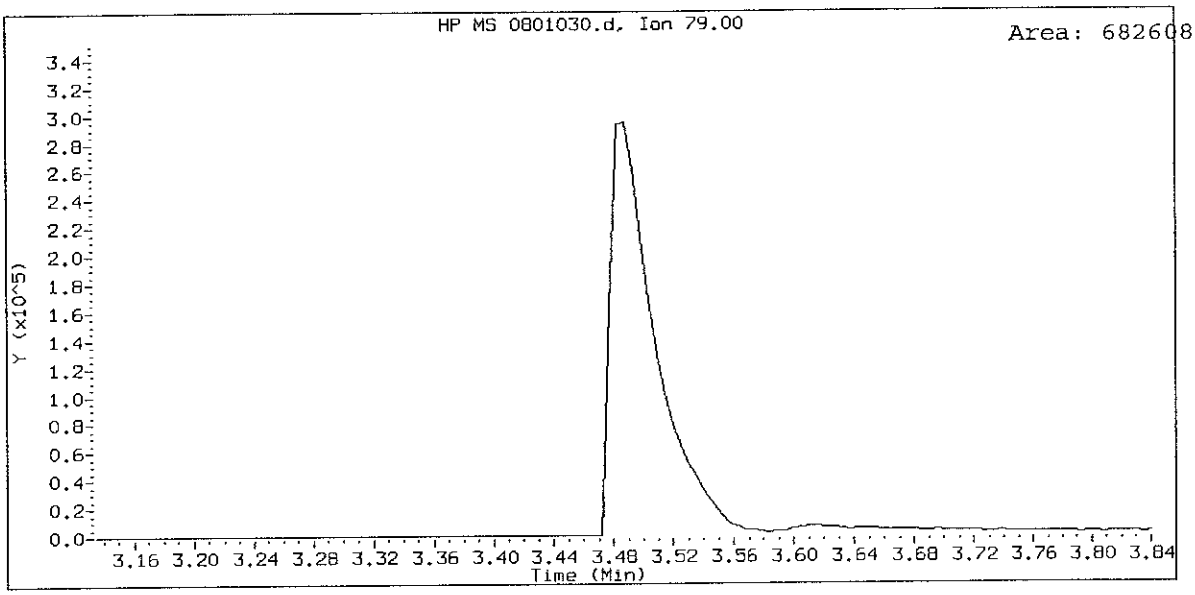
ABN 80, /chem1/nt6.i/20081030.b/0801030.d
Benzoic acid Amount: 212.77

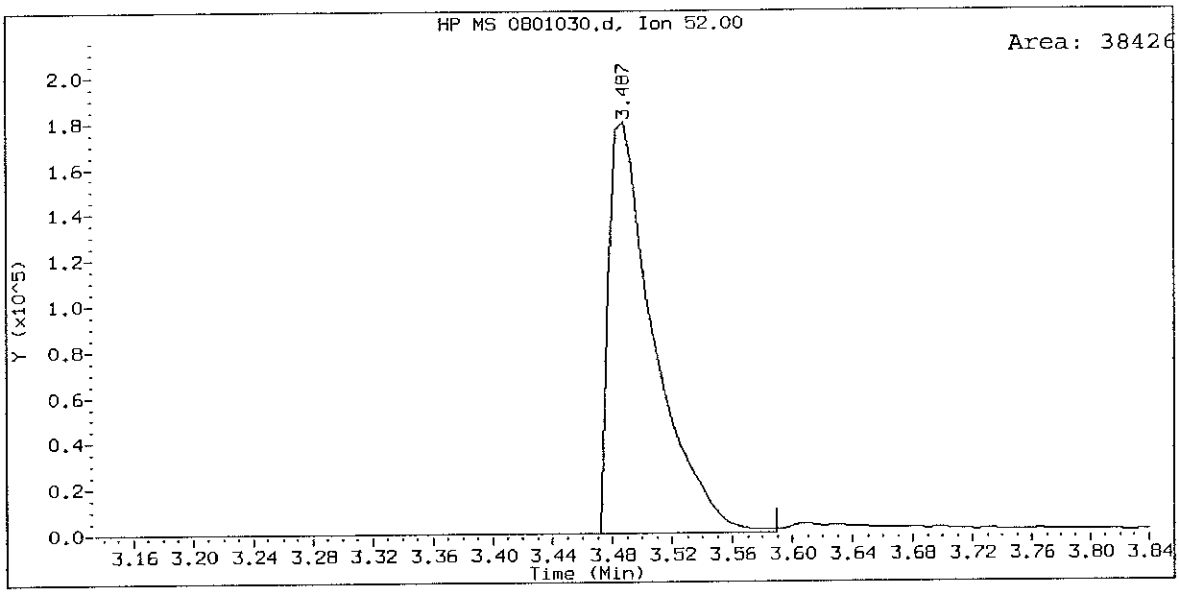






ABN 80, /chem1/nt6.i/20081030.b/0801030.d
Pyridine Amount: 83.69





Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20081030.b/icv1030.d
Lab Smp Id: ABN ICV
Inj Date : 30-OCT-2008 20:24
Operator : LJR/VTS
Smp Info : ABN ICV
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20081030.b/SW846.m
Meth Date : 31-Oct-2008 11:27 jeff
Cal Date : 30-OCT-2008 19:50
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50

Inst ID: nt6.i

LJK 10/31/08

Quant Type: ISTD
Cal File: 0101030.d
QC Sample: LCS

Compound Sublist: ICV.sub

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
	3 Phenol	94	7.708	7.734	(0.947)	185686	21.9774	21.98
	4 Bis(2-Chloroethyl)ether	93	7.804	7.820	(0.959)	125488	21.2869	21.29
	6 2-Chlorophenol	128	7.853	7.863	(0.965)	118396	22.5301	22.53
	7 1,3-Dichlorobenzene	146	8.072	8.082	(0.992)	119504	21.3699	21.37
*	8 1,4-Dichlorobenzene-d4	152	8.136	8.146	(1.000)	74949	20.0000	
	9 1,4-Dichlorobenzene	146	8.162	8.173	(1.003)	121057	21.5004	21.50
	11 Benzyl alcohol	108	8.419	8.434	(1.035)	95700	25.1407	25.14
	12 1,2-Dichlorobenzene	146	8.456	8.466	(1.039)	114183	21.5311	21.53
	13 2-Methylphenol	108	8.648	8.664	(1.063)	113211	22.2361	22.24
	14 2,2'-oxybis(1-Chloropropane)	45	8.681	8.691	(1.067)	157305	21.5039	21.50
	15 4-Methylphenol	108	8.878	8.904	(1.091)	118595	22.4242	22.42
	16 N-Nitroso-di-n-propylamine	70	8.900	8.926	(1.094)	102169	21.8307	21.83
	17 Hexachloroethane	117	8.948	8.952	(1.100)	52742	21.8489	21.85
	19 Nitrobenzene	77	9.103	9.118	(0.893)	155565	20.7669	20.77
	20 Isophorone	82	9.482	9.508	(0.930)	235827	20.2057	20.21
	21 2-Nitrophenol	139	9.621	9.631	(0.944)	60363	21.8158	21.82
	22 2,4-Dimethylphenol	107	9.722	9.738	(0.954)	124717	22.6178	22.62
	23 Bis(2-Chloroethoxy)methane	93	9.877	9.893	(0.969)	146284	21.9145	21.91
	24 Benzoic acid	105	9.931	10.058	(0.974)	148479	50.1461	50.15
	25 2,4-Dichlorophenol	162	10.000	10.016	(0.981)	89308	22.1520	22.15
	26 1,2,4-Trichlorobenzene	180	10.134	10.144	(0.994)	98386	21.8541	21.85
*	27 Naphthalene-d8	136	10.192	10.197	(1.000)	268664	20.0000	
	28 Naphthalene	128	10.224	10.235	(1.003)	318077	21.9244	21.92
	29 4-Chloroaniline	127	10.369	10.379	(1.017)	133310	22.0148	22.01
	30 Hexachlorobutadiene	225	10.545	10.550	(1.035)	59448	22.9717	22.97
	31 4-Chloro-3-methylphenol	107	11.170	11.185	(1.096)	105160	22.5687	22.57
	32 2-Methylnaphthalene	141	11.352	11.362	(1.114)	162886	20.0580	20.06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
	33 Hexachlorocyclopentadiene	237	11.731	11.736	(0.897)	65653	21.2251	21.23
	34 2,4,6-Trichlorophenol	196	11.864	11.875	(0.908)	63539	21.7211	21.72
	35 2,4,5-Trichlorophenol	196	11.918	11.928	(0.912)	68558	22.2677	22.27
	37 2-Chloronaphthalene	162	12.137	12.147	(0.928)	186130	21.3884	21.39
	38 2-Nitroaniline	65	12.367	12.387	(0.946)	78472	20.4091	20.41
	39 Dimethylphthalate	163	12.746	12.767	(0.975)	203701	21.2400	21.24
	40 Acenaphthylene	152	12.815	12.826	(0.980)	276392	20.3827	20.38
	41 2,6-Dinitrotoluene	165	12.842	12.858	(0.982)	45716	21.0137	21.01
*	42 Acenaphthene-d10	164	13.072	13.077	(1.000)	143113	20.0000	
	43 3-Nitroaniline	138	13.050	13.071	(0.998)	51440	22.8900	22.89
	44 Acenaphthene	153	13.125	13.135	(1.004)	181910	22.1280	22.13
	45 2,4-Dinitrophenol	184	13.216	13.237	(1.011)	50330	56.4883	56.49
	46 Dibenzofuran	168	13.387	13.397	(1.024)	241944	19.5345	19.53
	47 4-Nitrophenol	109	13.339	13.360	(1.020)	38578	23.0717	23.07
	48 2,4-Dinitrotoluene	165	13.467	13.488	(1.030)	60056	21.2804	21.28
	49 Fluorene	166	13.943	13.958	(1.067)	204381	21.7802	21.78
	50 Diethylphthalate	149	13.905	13.921	(1.064)	201616	21.0485	21.05
	51 4-Chlorophenyl-phenylether	204	13.969	13.979	(1.069)	98487	21.0362	21.04
	52 4-Nitroaniline	138	14.049	14.086	(1.075)	47428	20.5758	20.58
	53 4,6-Dinitro-2-methylphenol	198	14.124	14.156	(0.914)	79558	52.0940	52.09
	54 N-Nitrosodiphenylamine	169	14.172	14.193	(0.917)	97118	14.8606	14.86 (M)
	56 4-Bromophenyl-phenylether	248	14.755	14.765	(0.954)	58249	21.5388	21.54
	57 Hexachlorobenzene	284	14.979	14.989	(0.969)	63689	22.0690	22.07
	58 Pentachlorophenol	266	15.273	15.283	(0.988)	41265	22.2224	22.22
*	59 Phenanthrene-d10	188	15.460	15.470	(1.000)	207381	20.0000	
	60 Phenanthrene	178	15.497	15.513	(1.002)	280374	21.8176	21.82
	61 Anthracene	178	15.567	15.587	(1.007)	279400	20.8786	20.88
	62 Carbazole	167	15.850	15.865	(1.025)	236462	20.4210	20.42
	63 Di-n-butylphthalate	149	16.566	16.576	(1.072)	314720	21.1498	21.15
	64 Fluoranthene	202	17.442	17.452	(1.128)	303067	21.7279	21.73
	65 Pyrene	202	17.805	17.815	(0.899)	309362	22.5907	22.59
	67 Butylbenzylphthalate	149	18.996	19.006	(0.960)	144182	22.3823	22.38
	68 Benzo(a)anthracene	228	19.771	19.781	(0.999)	322942	22.8059	22.81
*	69 Chrysene-d12	240	19.798	19.808	(1.000)	226170	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.776	19.792	(0.999)	120046	22.6573	22.66
	71 Chrysene	228	19.835	19.856	(1.002)	304673	22.1274	22.13
	72 bis(2-Ethylhexyl)phthalate	149	19.990	20.000	(0.955)	205611	23.0782	23.08
*	134 Di-n-octylphthalate-d4	153	20.930	20.935	(1.000)	328115	20.0000	
	73 Di-n-octylphthalate	149	20.935	20.946	(1.000)	370207	21.0769	21.08
	74 Benzo(b)fluoranthene	252	21.432	21.453	(0.976)	364531	21.6653	21.67
	75 Benzo(k)fluoranthene	252	21.464	21.496	(0.977)	377696	22.3220	22.32
	76 Benzo(a)pyrene	252	21.886	21.902	(0.997)	331915	21.9505	21.95
*	77 Perylene-d12	264	21.961	21.971	(1.000)	262796	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	23.526	23.563	(1.071)	450565	23.2853	23.29
	79 Dibenzo(a,h)anthracene	278	23.553	23.590	(1.072)	377861	23.2586	23.26
	80 Benzo(g,h,i)perylene	276	23.970	24.017	(1.091)	384138	23.1506	23.15
	103 Pyridine	79	3.477	3.487	(0.427)	145885	18.9768	18.98 (M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
90 N-Nitrosodimethylamine	74	3.488	3.541	(0.429)	91372	20.6948	20.69
91 Aniline	93	7.687	7.697	(0.945)	203079	19.8278	19.83
105 1-methylnaphthalene	141	11.523	11.533	(1.131)	158694	21.9507	21.95
111 Azobenzene (1,2-DP-Hydrazine)	77	14.220	14.236	(1.088)	271000	21.1701	21.17
93 Benzidine	184	17.693	17.703	(0.894)	92154	15.9021	15.90(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: /chem1/nt6.i/20081030.b/icv1030.d
Report Date: 31-Oct-2008 11:28

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: icv1030.d
Lab Smp Id: ABN ICV
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20081030.b/SW846.m
Misc Info:

Calibration Date: 30-OCT-2008
Calibration Time: 16:58

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	81566	40783	163132	74949	-8.11
27 Naphthalene-d8	282544	141272	565088	268664	-4.91
42 Acenaphthene-d10	147142	73571	294284	143113	-2.74
59 Phenanthrene-d10	207740	103870	415480	207381	-0.17
69 Chrysene-d12	219615	109808	439230	226170	2.98
134 Di-n-octylphthala	314948	157474	629896	328115	4.18
77 Perylene-d12	251306	125653	502612	262796	4.57

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.14	7.64	8.64	8.14	-0.02
27 Naphthalene-d8	10.19	9.69	10.69	10.19	-0.02
42 Acenaphthene-d10	13.07	12.57	13.57	13.07	-0.01
59 Phenanthrene-d10	15.46	14.96	15.96	15.46	-0.01
69 Chrysene-d12	19.79	19.29	20.29	19.80	0.02
134 Di-n-octylphthala	20.93	20.43	21.43	20.93	0.02
77 Perylene-d12	21.96	21.46	22.46	21.96	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt6.i/20081030.b/icv1030.d
Report Date: 31-Oct-2008 11:28

Analytical Resources, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: NONE
Lab Smp Id: ABN ICV
Level:
Data Type: MS DATA
SpikeList File: ICV.spk
Sublist File: ICV.sub
Method File: /chem1/nt6.i/20081030.b/SW846.m
Misc Info:

Client SDG: 20081030
Fraction: SV

Operator: LJR/VTS
SampleType: LCS
Quant Type: ISTD

	SPIKE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
3	Phenol	25.00	21.98	87.91	
4	Bis(2-Chloroethyl)	25.00	21.29	85.15	
6	2-Chlorophenol	25.00	22.53	90.12	
7	1,3-Dichlorobenzen	25.00	21.37	85.48	
9	1,4-Dichlorobenzen	25.00	21.50	86.00	
11	Benzyl alcohol	25.00	25.14	100.56	
12	1,2-Dichlorobenzen	25.00	21.53	86.12	
13	2-Methylphenol	25.00	22.24	88.94	
14	2,2'-oxybis(1-Chlo	25.00	21.50	86.02	
15	4-Methylphenol	25.00	22.42	89.70	
16	N-Nitroso-di-n-pro	25.00	21.83	87.32	
17	Hexachloroethane	25.00	21.85	87.40	
19	Nitrobenzene	25.00	20.77	83.07	
20	Isophorone	25.00	20.21	80.82	
21	2-Nitrophenol	25.00	21.82	87.26	OK
22	2,4-Dimethylphenol	25.00	22.62	90.47	
23	Bis(2-Chloroethoxy	25.00	21.91	87.66	
24	Benzoic acid	50.00	50.15	100.29	
25	2,4-Dichlorophenol	25.00	22.15	88.61	
26	1,2,4-Trichloroben	25.00	21.85	87.42	
28	Naphthalene	25.00	21.92	87.70	
29	4-Chloroaniline	25.00	22.01	88.06	
30	Hexachlorobutadien	25.00	22.97	91.89	
31	4-Chloro-3-methylp	25.00	22.57	90.27	
32	2-Methylnaphthalen	25.00	20.06	80.23	
33	Hexachlorocyclopen	25.00	21.23	84.90	
34	2,4,6-Trichlorophe	25.00	21.72	86.88	
35	2,4,5-Trichlorophe	25.00	22.27	89.07	
37	2-Chloronaphthalen	25.00	21.39	85.55	
38	2-Nitroaniline	25.00	20.41	81.64	
39	Dimethylphthalate	25.00	21.24	84.96	
40	Acenaphthylene	25.00	20.38	81.53	
41	2,6-Dinitrotoluene	25.00	21.01	84.05	

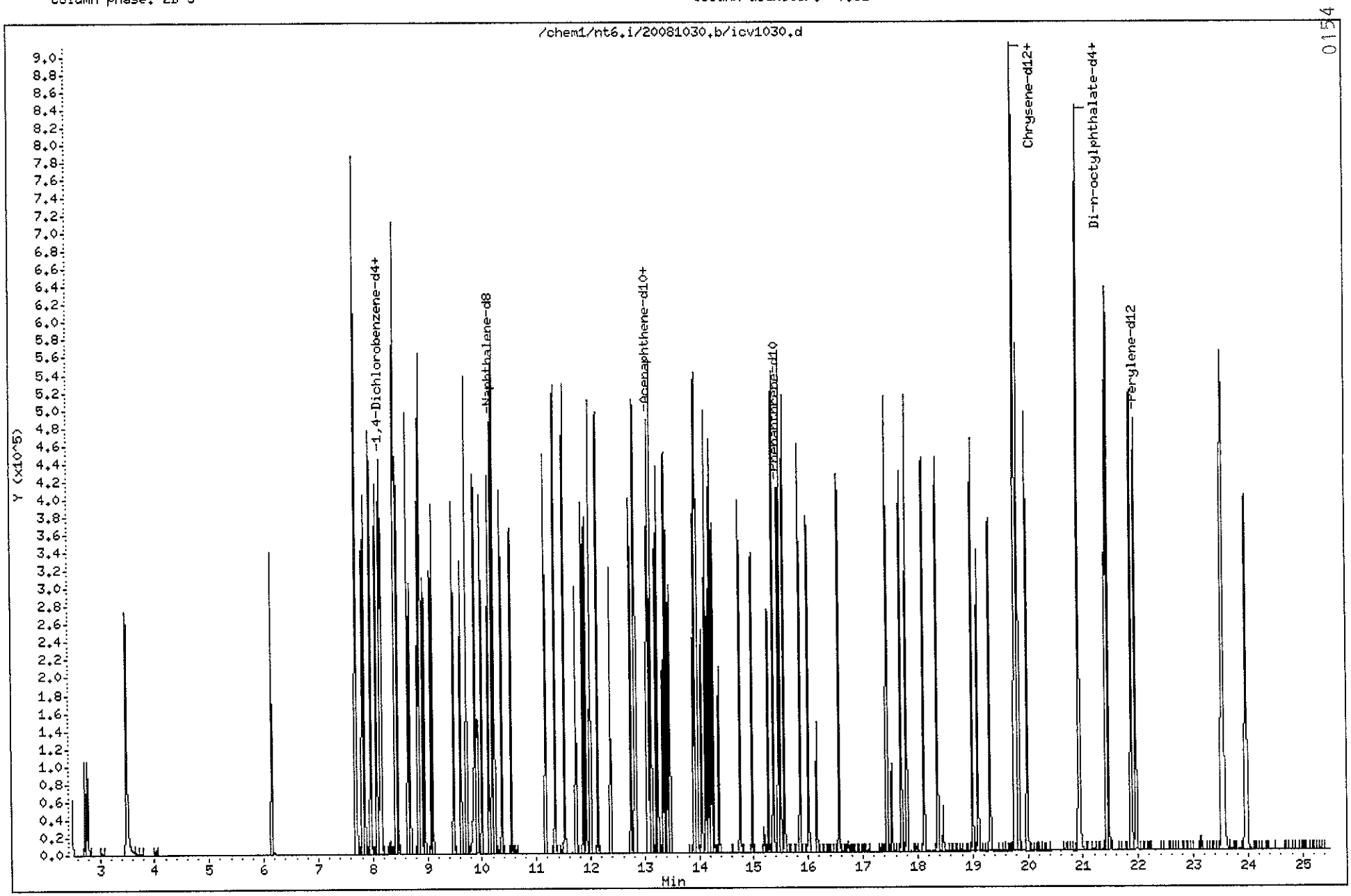
SPIKE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
43 3-Nitroaniline	25.00	22.89	91.56	
44 Acenaphthene	25.00	22.13	88.51	
45 2,4-Dinitrophenol	50.00	56.49	112.98	
46 Dibenzofuran	25.00	19.53	78.14	
47 4-Nitrophenol	25.00	23.07	92.29	
48 2,4-Dinitrotoluene	25.00	21.28	85.12	
49 Fluorene	25.00	21.78	87.12	
50 Diethylphthalate	25.00	21.05	84.19	
51 4-Chlorophenyl-phe	25.00	21.04	84.14	
52 4-Nitroaniline	25.00	20.58	82.30	
53 4,6-Dinitro-2-meth	50.00	52.09	104.19	
54 N-Nitrosodiphenyla	25.00	14.86	59.44 *	
56 4-Bromophenyl-phen	25.00	21.54	86.16	
57 Hexachlorobenzene	25.00	22.07	88.28	
58 Pentachlorophenol	25.00	22.22	88.89	
60 Phenanthrene	25.00	21.82	87.27	
61 Anthracene	25.00	20.88	83.51	OK
62 Carbazole	25.00	20.42	81.68	
63 Di-n-butylphthalat	25.00	21.15	84.60	
64 Fluoranthene	25.00	21.73	86.91	
65 Pyrene	25.00	22.59	90.36	
67 Butylbenzylphthala	25.00	22.38	89.53	
68 Benzo(a)anthracene	25.00	22.81	91.22	
70 3,3'-Dichlorobenzi	25.00	22.66	90.63	
71 Chrysene	25.00	22.13	88.51	
72 bis(2-Ethylhexyl)p	25.00	23.08	92.31	
73 Di-n-octylphthalat	25.00	21.08	84.31	
74 Benzo(b)fluoranthe	25.00	21.67	86.66	
75 Benzo(k)fluoranthe	25.00	22.32	89.29	
76 Benzo(a)pyrene	25.00	21.95	87.80	
78 Indeno(1,2,3-cd)py	25.00	23.29	93.14	
79 Dibenzo(a,h)anthra	25.00	23.26	93.03	
80 Benzo(g,h,i)peryle	25.00	23.15	92.60	
90 N-Nitrosodimethyla	25.00	20.69	82.78	
91 Aniline	25.00	19.83	79.31	
93 Benzidine	25.00	15.90	63.61 *	
103 Pyridine	25.00	18.98	75.91	
105 1-methylnaphthalen	25.00	21.95	87.80	

Data File: /chem1/nt6.i/20081030.b/icv1030.d
Date : 30-OCT-2008 20:24
Client ID:
Sample Info: ABN ICV

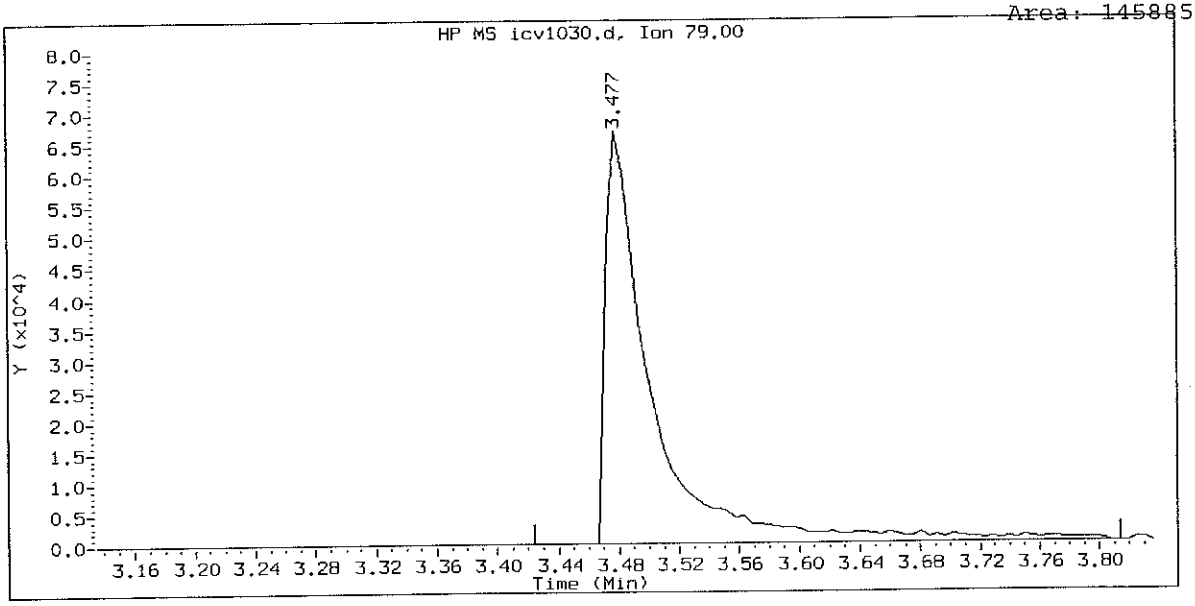
Instrument: nt6.i

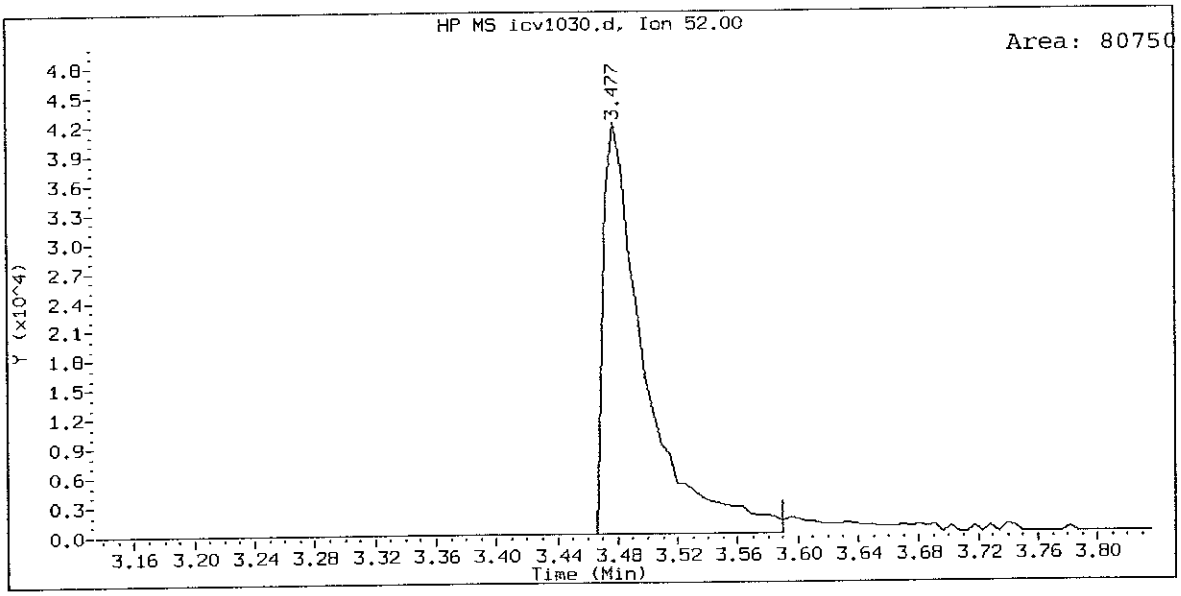
Operator: LJR/VTS
Column diameter: 0.32

Column phase: ZB-5



ABN ICV, /chem1/nt6.i/20081030.b/icv1030.d
Pyridine Amount: 18.98





SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NX36 Project: EDDON BOATYARD

Instrument ID: NT6 Cont. Calib. Date: 11/14/08

Init. Calib. Date: 10/30/08 Cont. Calib. Time: 1104

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Naphthalene	1.080	1.047	0.100	3.0	
2-Methylnaphthalene	0.604	0.547	0.100	9.4	
Acenaphthylene	1.895	1.804	0.100	4.8	
Acenaphthene	1.149	1.078	0.100	6.2	20.0
Dibenzofuran	1.731	1.546	0.100	10.7	
Fluorene	1.311	1.243	0.100	5.2	
Phenanthrene	1.239	1.159	0.100	6.4	
Anthracene	1.290	1.226	0.100	5.0	
Fluoranthene	1.345	1.390	0.100	-3.3	20.0
Pyrene	1.211	1.216	0.100	-0.4	
Benzo(a)anthracene	1.252	1.237	0.100	1.2	
Chrysene	1.218	1.174	0.100	3.6	
Benzo(b)fluoranthene	1.280	1.223	0.100	4.4	
Benzo(k)fluoranthene	1.288	1.340	0.100	-4.0	
Benzo(a)pyrene	1.151	1.154	0.100	-0.3	20.0
Indeno(1,2,3-cd)pyrene	1.472	1.414	0.100	3.9	
Dibenzo(a,h)anthracene	1.236	1.204	0.100	2.6	
Benzo(g,h,i)perylene	1.263	1.227	0.100	2.8	
1-methylnaphthalene	0.538	0.516	0.100	4.1	
Terphenyl-d14	0.832	0.840	0.100	-1.0	
2-Fluorobiphenyl	1.374	1.241	0.100	9.7	

<- Outside QC limits

FORM VII SV-1

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i
Lab File ID: cc1114.d
Analysis Type:
Lab Sample ID: ABN 25
Method: /chem1/nt6.i/20081114.b/SW846.m

Injection Date: 14-NOV-2008 11:04
Init. Cal. Date(s): 30-OCT-2008 10-NOV-2008
Init. Cal. Times: 16:58 14:59
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 2-Fluorophenol	1.44442	1.43922	1.43922	0.010	0.36053	100	Averaged
$ 2 Phenol-d5	1.95356	1.93728	1.93728	0.010	0.83374	100	Averaged
3 Phenol	2.25459	2.11359	2.11359	0.010	6.25407	20.00000	Averaged
$ 5 2-Chlorophenol-d4	1.25508	1.21708	1.21708	0.010	3.02742	100	Averaged
4 Bis(2-Chloroethyl)ether	1.57309	1.58469	1.58469	0.010	-0.73746	100	Averaged
6 2-Chlorophenol	1.40229	1.40206	1.40206	0.010	0.01649	100	Averaged
7 1,3-Dichlorobenzene	1.49226	1.45646	1.45646	0.010	2.39898	100	Averaged
9 1,4-Dichlorobenzene	1.50248	1.44926	1.44926	0.010	3.54227	20.00000	Averaged
$ 10 1,2-Dichlorobenzene-d4	0.88638	0.86487	0.86487	0.010	2.42642	100	Averaged
12 1,2-Dichlorobenzene	1.41514	1.38097	1.38097	0.010	2.41426	100	Averaged
11 Benzyl alcohol	1.01578	0.88284	0.88284	0.010	13.08709	100	Averaged
14 2,2'-oxybis(1-Chloropropane	1.95205	1.91729	1.91729	0.010	1.78051	100	Averaged
13 2-Methylphenol	1.35861	1.31563	1.31563	0.010	3.16381	100	Averaged
17 Hexachloroethane	0.64415	0.60697	0.60697	0.010	5.77279	100	Averaged
16 N-Nitroso-di-n-propylamine	1.24887	1.16634	1.16634	0.050	6.60817	100	Averaged
15 4-Methylphenol	1.41128	1.41884	1.41884	0.010	-0.53596	100	Averaged
$ 18 Nitrobenzene-d5	0.52639	0.46663	0.46663	0.010	11.35390	100	Averaged
19 Nitrobenzene	0.55765	0.51010	0.51010	0.010	8.52697	100	Averaged
20 Isophorone	0.86884	0.84936	0.84936	0.010	2.24269	100	Averaged
21 2-Nitrophenol	0.20598	0.20946	0.20946	0.010	-1.69078	20.00000	Averaged
22 2,4-Dimethylphenol	0.41048	0.40073	0.40073	0.010	2.37675	100	Averaged
23 Bis(2-Chloroethoxy)methane	0.49692	0.49173	0.49173	0.010	1.04425	100	Averaged
24 Benzoic acid	0.22042	0.24918	0.24918	0.010	-13.04998	100	Averaged
25 2,4-Dichlorophenol	0.30012	0.30858	0.30858	0.010	-2.81839	20.00000	Averaged
26 1,2,4-Trichlorobenzene	0.33514	0.33054	0.33054	0.010	1.37213	100	Averaged
28 Naphthalene	1.08000	1.04714	1.04714	0.010	3.04260	100	Averaged
29 4-Chloroaniline	0.45078	0.45232	0.45232	0.010	-0.34018	100	Averaged
30 Hexachlorobutadiene	0.19265	0.19100	0.19100	0.010	0.85478	20.00000	Averaged
31 4-Chloro-3-methylphenol	0.34687	0.33806	0.33806	0.010	2.54080	20.00000	Averaged
32 2-Methylnaphthalene	0.60453	0.54736	0.54736	0.010	9.45626	100	Averaged
33 Hexachlorocyclopentadiene	0.43227	0.34957	0.34957	0.050	19.13236	100	Averaged
34 2,4,6-Trichlorophenol	0.40880	0.38739	0.38739	0.010	5.23588	20.00000	Averaged
35 2,4,5-Trichlorophenol	0.43026	0.41355	0.41355	0.010	3.88523	100	Averaged
$ 36 2-Fluorobiphenyl	1.37391	1.24075	1.24075	0.010	9.69256	100	Averaged
37 2-Chloronaphthalene	1.21615	1.12762	1.12762	0.010	7.27960	100	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i
Lab File ID: cc1114.d
Analysis Type:
Lab Sample ID: ABN 25
Method: /chem1/nt6.i/20081114.b/SW846.m

Injection Date: 14-NOV-2008 11:04
Init. Cal. Date(s): 30-OCT-2008 10-NOV-2008
Init. Cal. Times: 16:58 14:59
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
38 2-Nitroaniline	0.53733	0.44490	0.44490	0.010	17.20250	100	Averaged
39 Dimethylphthalate	1.34026	1.26416	1.26416	0.010	5.67808	100	Averaged
40 Acenaphthylene	1.89502	1.80411	1.80411	0.010	4.79742	100	Averaged
41 2,6-Dinitrotoluene	0.30403	0.29478	0.29478	0.010	3.04210	100	Averaged
43 3-Nitroaniline	0.31406	0.31116	0.31116	0.010	0.92074	100	Averaged
44 Acenaphthene	1.14885	1.07834	1.07834	0.010	6.13817	20.00000	Averaged
45 2,4-Dinitrophenol	51.16868	50.00000	0.16082	0.050	-2.33735	100	Linear
46 Dibenzofuran	1.73087	1.54550	1.54550	0.010	10.70959	100	Averaged
47 4-Nitrophenol	0.23367	0.19156	0.19156	0.050	18.02413	100	Averaged
48 2,4-Dinitrotoluene	0.39439	0.38317	0.38317	0.010	2.84404	100	Averaged
50 Diethylphthalate	1.33861	1.20305	1.20305	0.010	10.12674	100	Averaged
49 Fluorene	1.31138	1.24281	1.24281	0.010	5.22854	100	Averaged
51 4-Chlorophenyl-phenylether	0.65428	0.61468	0.61468	0.010	6.05217	100	Averaged
52 4-Nitroaniline	0.32213	0.31985	0.31985	0.010	0.70603	100	Averaged
53 4,6-Dinitro-2-methylphenol	0.14728	0.16656	0.16656	0.010	-13.08929	100	Averaged
54 N-Nitrosodiphenylamine	0.63027	0.59144	0.59144	0.010	6.16064	20.00000	Averaged
$ 55 2,4,6-Tribromophenol	0.19261	0.17540	0.17540	0.010	8.93467	100	Averaged
56 4-Bromophenyl-phenylether	0.26081	0.25025	0.25025	0.010	4.05046	100	Averaged
57 Hexachlorobenzene	0.27832	0.26314	0.26314	0.010	5.45538	100	Averaged
58 Pentachlorophenol	0.17908	0.14505	0.14505	0.010	19.00551	20.00000	Averaged
60 Phenanthrene	1.23935	1.15862	1.15862	0.010	6.51363	100	Averaged
61 Anthracene	1.29058	1.22564	1.22564	0.010	5.03201	100	Averaged
62 Carbazole	1.11672	1.10956	1.10956	0.010	0.64117	100	Averaged
63 Di-n-butylphthalate	1.43509	1.45513	1.45513	0.010	-1.39688	100	Averaged
64 Fluoranthene	1.34519	1.39057	1.39057	0.010	-3.37391	20.00000	Averaged
65 Pyrene	1.21097	1.21633	1.21633	0.010	-0.44318	100	Averaged
$ 66 Terphenyl-d14	0.83145	0.84045	0.84045	0.010	-1.08204	100	Averaged
67 Butylbenzylphthalate	0.56964	0.57851	0.57851	0.010	-1.55659	100	Averaged
68 Benzo(a)anthracene	1.25220	1.23742	1.23742	0.010	1.17975	100	Averaged
70 3,3'-Dichlorobenzidine	0.46853	0.45373	0.45373	0.010	3.15737	100	Averaged
71 Chrysene	1.21759	1.17419	1.17419	0.010	3.56372	100	Averaged
72 bis(2-Ethylhexyl)phthalate	0.54306	0.58719	0.58719	0.010	-8.12634	100	Averaged
73 Di-n-octylphthalate	1.07064	1.02011	1.02011	0.010	4.71967	20.00000	Averaged
74 Benzo(b)fluoranthene	1.28050	1.22291	1.22291	0.010	4.49751	100	Averaged
75 Benzo(k)fluoranthene	1.28772	1.33995	1.33995	0.010	-4.05645	100	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i
Lab File ID: cc1114.d
Analysis Type:
Lab Sample ID: ABN 25
Method: /chem1/nt6.i/20081114.b/SW846.m

Injection Date: 14-NOV-2008 11:04
Init. Cal. Date(s): 30-OCT-2008 10-NOV-2008
Init. Cal. Times: 16:58 14:59
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
76 Benzo(a)pyrene	1.15078	1.15409	1.15409	0.010	-0.28725	20.00000	Averaged	
78 Indeno(1,2,3-cd)pyrene	1.47261	1.41396	1.41396	0.010	3.98257	100	Averaged	
79 Dibenzo(a,h)anthracene	1.23640	1.20407	1.20407	0.010	2.61484	100	Averaged	
80 Benzo(g,h,i)perylene	1.26280	1.22679	1.22679	0.010	2.85181	100	Averaged	
90 N-Nitrosodimethylamine	1.17819	++++	++++	0.010	++++	100	Averaged	<-
91 Aniline	2.73309	2.53651	2.53651	0.010	7.19273	100	Averaged	
93 Benzidine	0.51245	0.48933	0.48933	0.010	4.51147	100	Averaged	
103 Pyridine	2.05141	0.00313	0.00313	0.010	100	100	Averaged	<-
105 1-methylnaphthalene	0.53819	0.51639	0.51639	0.010	4.05067	100	Averaged	
111 Azobenzene (1,2-DP-Hydrazin	1.78895	1.70924	1.70924	0.010	4.45571	100	Averaged	
98 Retene	0.44308	0.43712	0.43712	0.010	1.34420	100	Averaged	
106 Guaiacol	0.94737	0.92750	0.92750	0.010	2.09821	100	Averaged	
185 4-Chloroguaiacol	0.59929	0.56902	0.56902	0.010	5.05146	100	Averaged	
182 4,6-Dichloroguaiacol	23.55556	25.00000	0.69724	0.010	5.77776	100	Quadratic	
107 4,5-Dichloroguaiacol	22.39230	25.00000	0.25988	0.010	10.43080	100	Quadratic	
184 3,4-Dichloroguaiacol	0.42596	0.41991	0.41991	0.010	1.41902	100	Averaged	
108 4,5,6-Trichloroguaiacol	0.23412	0.21164	0.21164	0.010	9.60196	100	Averaged	
181 3,4,6-Trichloroguaiacol	0.45465	0.41830	0.41830	0.010	7.99631	100	Averaged	
109 3,4,5-Trichloroguaiacol	0.16490	0.16617	0.16617	0.010	-0.77186	100	Averaged	
110 Tetrachloroguaiacol	0.14537	0.13553	0.13553	0.010	6.76661	100	Averaged	

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20081114.b/cc1114.d
Lab Smp Id: ABN 25
Inj Date : 14-NOV-2008 11:04
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : ABN 25
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20081114.b/SW846.m
Meth Date : 17-Nov-2008 10:38 jeff Quant Type: ISTD
Cal Date : 10-NOV-2008 14:59 Cal File: 0101110.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDAGUAIA.sub
Target Version: 3.50

LJR 11/17/08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	4.928	4.928	(0.679)	244978	25.0000	24.91
$	2 Phenol-d5	99	6.659	6.659	(0.918)	329756	25.0000	24.79
	3 Phenol	94	6.675	6.675	(0.920)	359767	25.0000	23.44
$	5 2-Chlorophenol-d4	132	6.670	6.670	(0.919)	207167	25.0000	24.24
	4 Bis(2-Chloroethyl)ether	93	6.664	6.664	(0.918)	269740	25.0000	25.18
	6 2-Chlorophenol	128	6.696	6.696	(0.923)	238653	25.0000	25.00
	7 1,3-Dichlorobenzene	146	6.889	6.889	(0.949)	247913	25.0000	24.40 (H)
*	8 1,4-Dichlorobenzene-d4	152	6.958	6.958	(1.000)	136173	20.0000	(H)
	9 1,4-Dichlorobenzene	146	6.985	6.985	(0.962)	246687	25.0000	24.11 (H)
$	10 1,2-Dichlorobenzene-d4	152	7.257	7.257	(1.000)	147215	25.0000	24.39
	12 1,2-Dichlorobenzene	146	7.279	7.279	(1.003)	235064	25.0000	24.40
	11 Benzyl alcohol	108	7.305	7.305	(1.050)	150274	25.0000	21.73 (MH)
	14 2,2'-oxybis(1-Chloropropane)	45	7.557	7.557	(1.041)	326354	25.0000	24.55
	13 2-Methylphenol	108	7.605	7.605	(1.048)	223941	25.0000	24.21 (H)
	17 Hexachloroethane	117	7.765	7.765	(1.070)	103316	25.0000	23.56
	16 N-Nitroso-di-n-propylamine	70	7.786	7.786	(1.073)	198530	25.0000	23.35
	15 4-Methylphenol	108	7.845	7.845	(1.081)	241510	25.0000	25.13
$	18 Nitrobenzene-d5	82	7.920	7.920	(0.868)	271221	25.0000	22.16
	19 Nitrobenzene	77	7.952	7.952	(0.871)	296488	25.0000	22.87
	20 Isophorone	82	8.342	8.342	(0.914)	493677	25.0000	24.44
	21 2-Nitrophenol	139	8.470	8.470	(0.928)	121746	25.0000	25.42
	22 2,4-Dimethylphenol	107	8.662	8.662	(0.949)	232917	25.0000	24.41
	23 Bis(2-Chloroethoxy)methane	93	8.780	8.780	(0.962)	285811	25.0000	24.74
	24 Benzoic acid	105	8.972	8.972	(0.983)	289668	50.0000	56.52 (M)
	25 2,4-Dichlorophenol	162	8.887	8.887	(0.974)	179358	25.0000	25.70
	26 1,2,4-Trichlorobenzene	180	8.972	8.972	(0.983)	192120	25.0000	24.66
*	27 Naphthalene-d8	136	9.020	9.020	(1.000)	464989	20.0000	(H)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	9.052	9.052	(0.992)	608638	25.0000	24.24
	29 4-Chloroaniline	127	9.239	9.239	(1.012)	262903	25.0000	25.09
	30 Hexachlorobutadiene	225	9.384	9.384	(1.028)	111017	25.0000	24.79
	31 4-Chloro-3-methylphenol	107	10.121	10.121	(1.109)	196490	25.0000	24.36
	32 2-Methylnaphthalene	141	10.174	10.174	(1.115)	318147	25.0000	22.64 (H)
	33 Hexachlorocyclopentadiene	237	10.553	10.553	(0.890)	113927	25.0000	20.22
	34 2,4,6-Trichlorophenol	196	10.719	10.719	(0.904)	126255	25.0000	23.69
	35 2,4,5-Trichlorophenol	196	10.783	10.783	(0.909)	134778	25.0000	24.03
$	36 2-Fluorobiphenyl	172	10.837	10.837	(0.914)	404370	25.0000	22.58
	37 2-Chloronaphthalene	162	10.938	10.938	(0.922)	367502	25.0000	23.18
	38 2-Nitroaniline	65	11.211	11.211	(0.945)	144996	25.0000	20.70
	39 Dimethylphthalate	163	11.601	11.601	(0.978)	412000	25.0000	23.58
	40 Acenaphthylene	152	11.601	11.601	(0.978)	587975	25.0000	23.80
	41 2,6-Dinitrotoluene	165	11.686	11.686	(0.986)	96072	25.0000	24.24
*	42 Acenaphthene-d10	164	11.857	11.857	(1.000)	260727	20.0000	
	43 3-Nitroaniline	138	11.894	11.894	(1.003)	101411	25.0000	24.77
	44 Acenaphthene	153	11.905	11.905	(1.004)	351439	25.0000	23.47
	45 2,4-Dinitrophenol	184	12.055	12.055	(1.017)	104825	50.0000	51.17
	46 Dibenzofuran	168	12.172	12.172	(1.027)	503692	25.0000	22.32
	47 4-Nitrophenol	109	12.300	12.300	(1.037)	62430	25.0000	20.49
	48 2,4-Dinitrotoluene	165	12.300	12.300	(1.037)	124880	25.0000	24.29
	50 Diethylphthalate	149	12.754	12.754	(1.076)	392086	25.0000	22.47
	49 Fluorene	166	12.717	12.717	(1.073)	405044	25.0000	23.69
	51 4-Chlorophenyl-phenylether	204	12.770	12.770	(1.077)	200330	25.0000	23.49
	52 4-Nitroaniline	138	12.877	12.877	(1.086)	104243	25.0000	24.82
	53 4,6-Dinitro-2-methylphenol	198	12.947	12.947	(0.912)	161041	50.0000	56.54
	54 N-Nitrosodiphenylamine	169	12.990	12.990	(0.915)	285916	25.0000	23.46
$	55 2,4,6-Tribromophenol	330	13.150	13.150	(1.109)	57164	25.0000	22.77
	56 4-Bromophenyl-phenylether	248	13.540	13.540	(0.954)	120976	25.0000	23.99
	57 Hexachlorobenzene	284	13.727	13.727	(0.967)	127206	25.0000	23.64
	58 Pentachlorophenol	266	14.058	14.058	(0.990)	70119	25.0000	20.25 (M)
*	59 Phenanthrene-d10	188	14.197	14.197	(1.000)	386739	20.0000	
	60 Phenanthrene	178	14.234	14.234	(1.003)	560104	25.0000	23.37
	61 Anthracene	178	14.304	14.304	(1.008)	592503	25.0000	23.74
	62 Carbazole	167	14.624	14.624	(1.030)	536389	25.0000	24.84
	63 Di-n-butylphthalate	149	15.383	15.383	(1.084)	703446	25.0000	25.35
	64 Fluoranthene	202	16.147	16.147	(1.137)	672235	25.0000	25.84
	65 Pyrene	202	16.483	16.483	(0.893)	682026	25.0000	25.11
$	66 Terphenyl-d14	244	16.852	16.852	(0.913)	471258	25.0000	25.27
	67 Butylbenzylphthalate	149	17.765	17.765	(0.962)	324383	25.0000	25.39
	68 Benzo(a)anthracene	228	18.438	18.438	(0.999)	693852	25.0000	24.71
*	69 Chrysene-d12	240	18.465	18.465	(1.000)	448578	20.0000	
	70 3,3'-Dichlorobenzidine	252	18.492	18.492	(1.001)	254419	25.0000	24.21
	71 Chrysene	228	18.503	18.503	(1.002)	658397	25.0000	24.11
	72 bis(2-Ethylhexyl)phthalate	149	18.780	18.780	(0.953)	456607	25.0000	27.03
*	134 Di-n-octylphthalate-d4	153	19.715	19.715	(1.000)	622088	20.0000	
	73 Di-n-octylphthalate	149	19.721	19.721	(1.000)	793244	25.0000	23.82

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	20.073	20.073	(0.975)	715151	25.0000	23.88
75	Benzo(k)fluoranthene	252	20.111	20.111	(0.977)	783596	25.0000	26.01
76	Benzo(a)pyrene	252	20.511	20.511	(0.996)	674904	25.0000	25.07
* 77	Perylene-d12	264	20.586	20.586	(1.000)	467835	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	21.932	21.932	(1.065)	826874	25.0000	24.00
79	Dibenzo(a,h)anthracene	278	21.964	21.964	(1.067)	704135	25.0000	24.35
80	Benzo(g,h,i)perylene	276	22.226	22.226	(1.080)	717420	25.0000	24.29
90	N-Nitrosodimethylamine	74	Compound Not Detected.					
91	Aniline	93	6.526	6.526	(0.899)	431755	25.0000	23.20(H)
93	Benzidine	184	16.446	16.446	(0.891)	274381	25.0000	23.87
103	Pyridine	79	Compound Not Detected.					
105	1-methylnaphthalene	141	10.340	10.340	(1.133)	300143	25.0000	23.99
111	Azobenzene (1,2-DP-Hydrazine)	77	13.022	13.022	(1.098)	557055	25.0000	23.89
98	Retene	219	17.076	17.076	(0.925)	245105	25.0000	24.66
106	Guaiacol	124	7.979	7.979	(1.099)	157875	25.0000	24.48
185	4-Chloroguaiacol	115	9.993	9.993	(1.436)	48428	12.5000	11.87(M)
182	4,6-Dichloroguaiacol	192	11.857	11.857	(1.704)	118682	25.0000	23.56(M)
107	4,5-Dichloroguaiacol	192	11.857	11.857	(1.000)	84698	25.0000	22.39(M)
184	3,4-Dichloroguaiacol	192	11.061	11.061	(1.590)	71476	25.0000	24.65(M)
108	4,5,6-Trichloroguaiacol	213	13.615	13.615	(1.148)	68975	25.0000	22.60
181	3,4,6-Trichloroguaiacol	211	12.589	12.589	(1.809)	71201	25.0000	23.00(M)
109	3,4,5-Trichloroguaiacol	213	12.701	12.701	(0.895)	80331	25.0000	25.19
110	Tetrachloroguaiacol	247	14.191	14.191	(1.000)	131039	50.0000	46.62

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: cc1114.d
Lab Smp Id: ABN 25
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20081114.b/SW846.m
Misc Info:

Calibration Date: 14-NOV-2008
Calibration Time: 11:04

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	136173	68086	272346	136173	0.00
27 Naphthalene-d8	464989	232494	929978	464989	0.00
42 Acenaphthene-d10	260727	130364	521454	260727	0.00
59 Phenanthrene-d10	386739	193370	773478	386739	0.00
69 Chrysene-d12	448578	224289	897156	448578	0.00
134 Di-n-octylphthala	622088	311044	1244176	622088	0.00
77 Perylene-d12	467835	233918	935670	467835	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.96	6.46	7.46	6.96	0.00
27 Naphthalene-d8	9.02	8.52	9.52	9.02	0.00
42 Acenaphthene-d10	11.86	11.36	12.36	11.86	0.00
59 Phenanthrene-d10	14.20	13.70	14.70	14.20	0.00
69 Chrysene-d12	18.47	17.97	18.97	18.47	0.00
134 Di-n-octylphthala	19.72	19.22	20.22	19.72	0.00
77 Perylene-d12	20.59	20.09	21.09	20.59	0.00

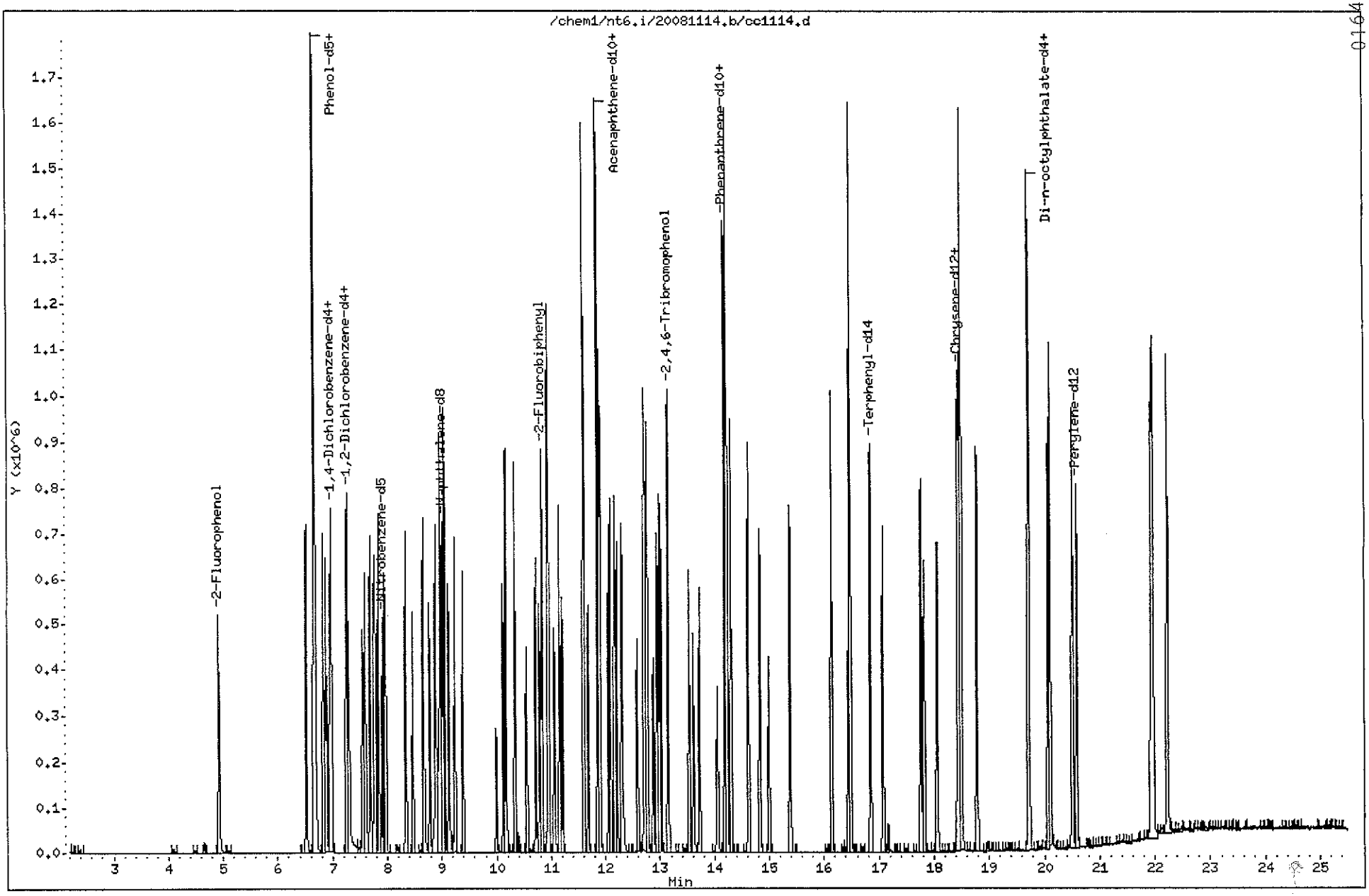
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt6.i/20081114.b/cc1114.d
Date : 14-NOV-2008 11:04
Client ID:
Sample Info: ABN 25

Instrument: nt6.i

Operator: LJR/VTS
Column diameter: 0.32

Column phase: ZB-5



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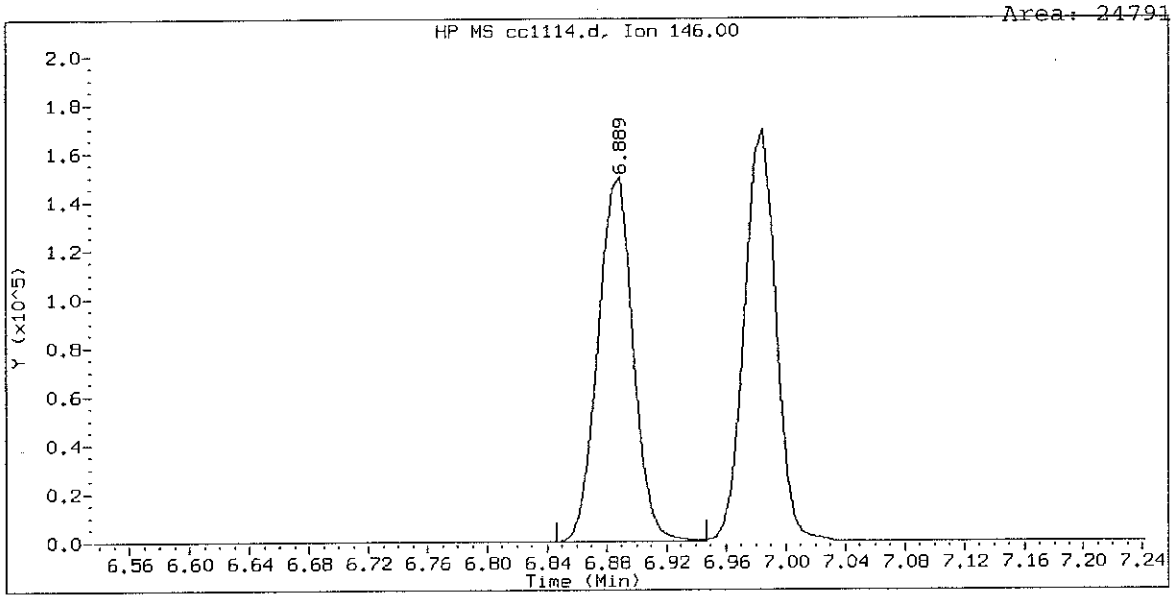
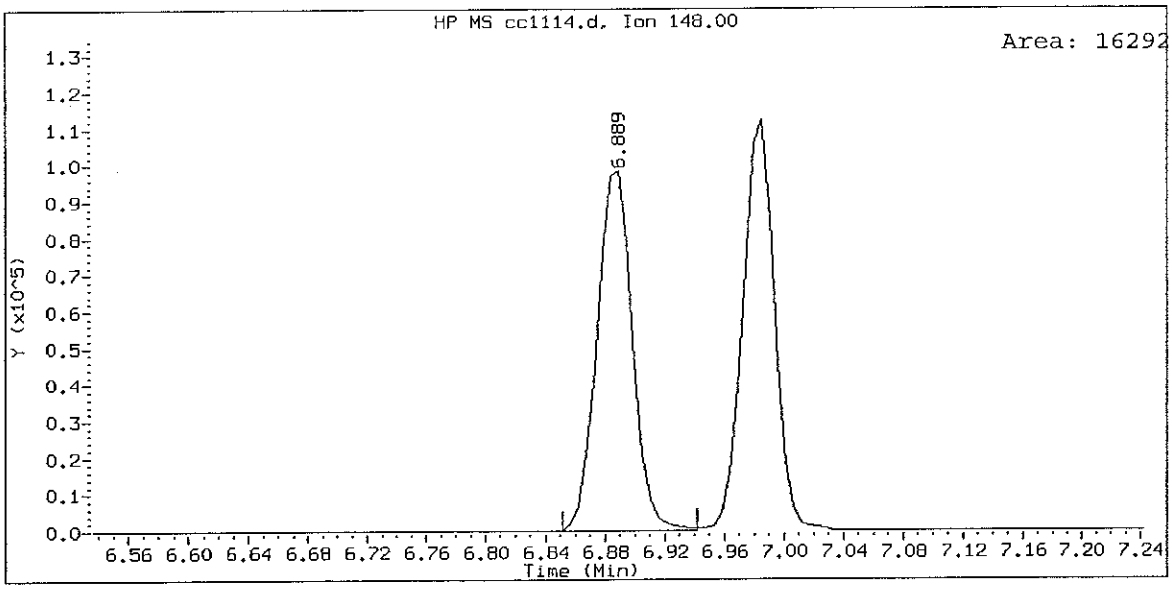
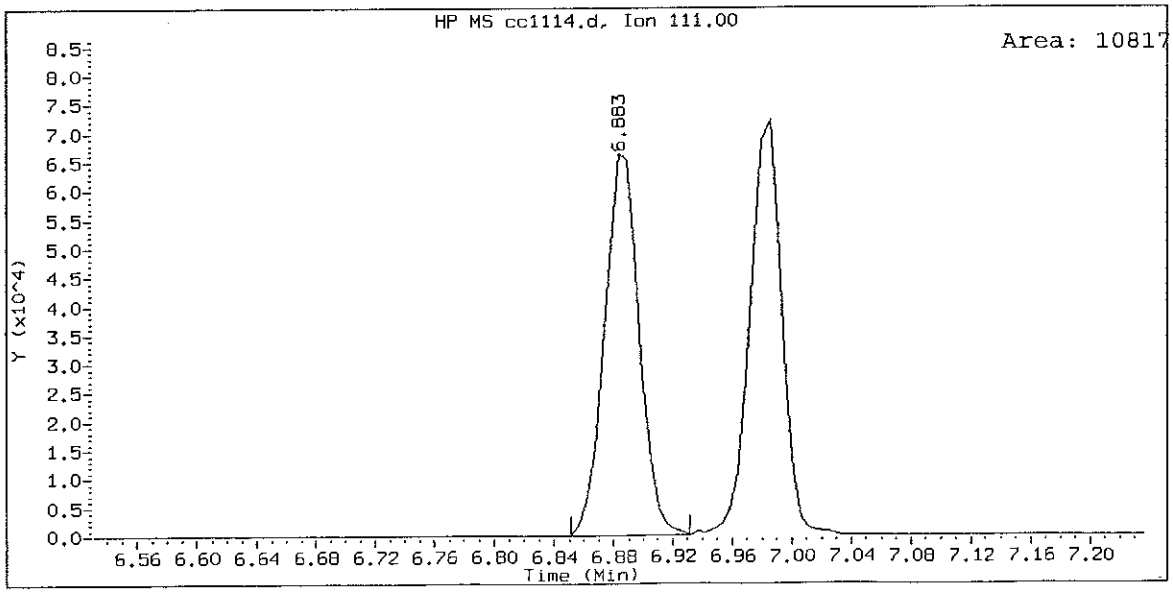
1,3-Dichlorobenzene Amount: 24.40







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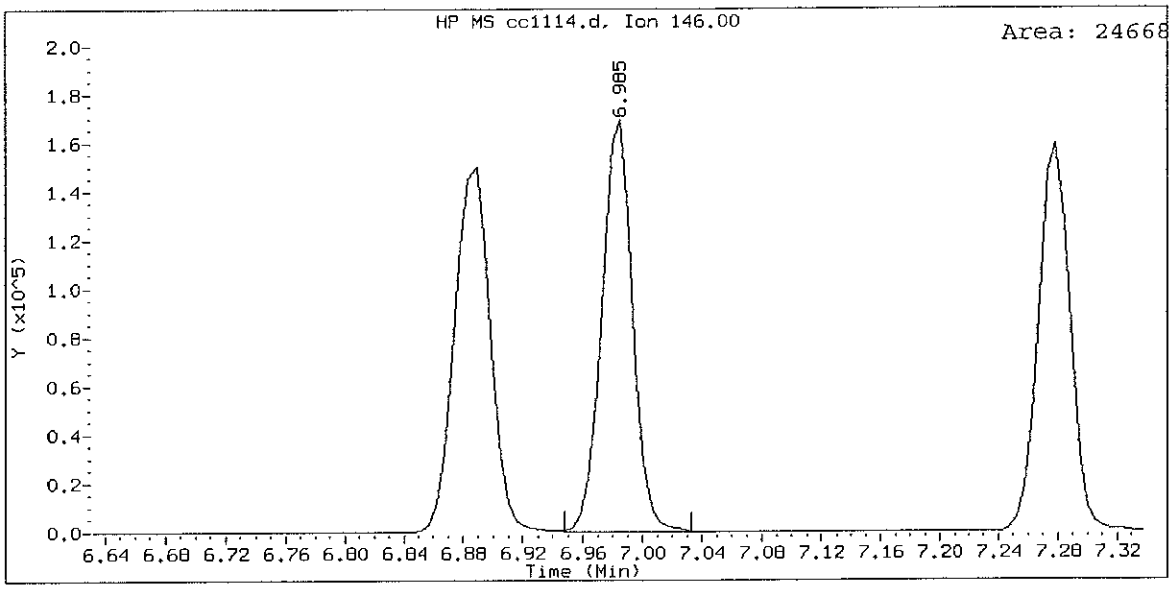
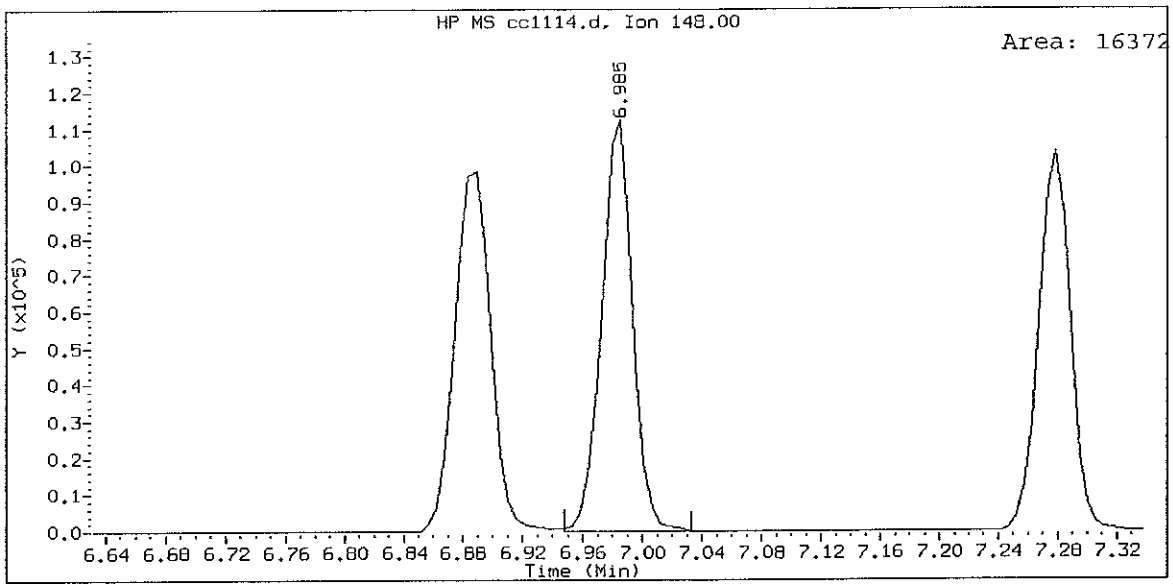
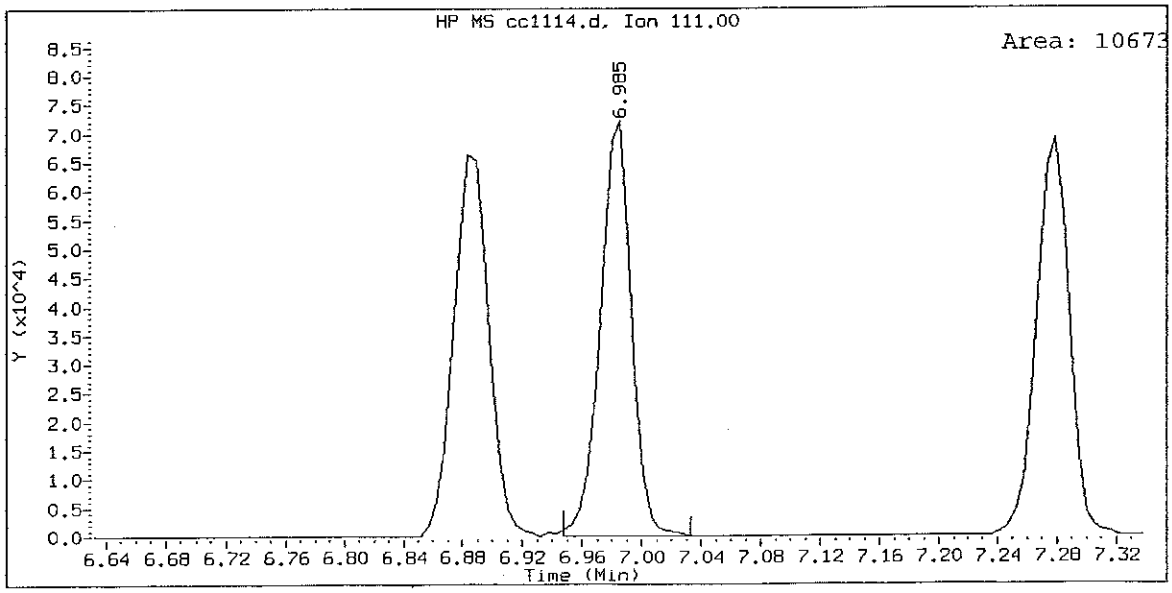
1,4-Dichlorobenzene Amount: 24.11







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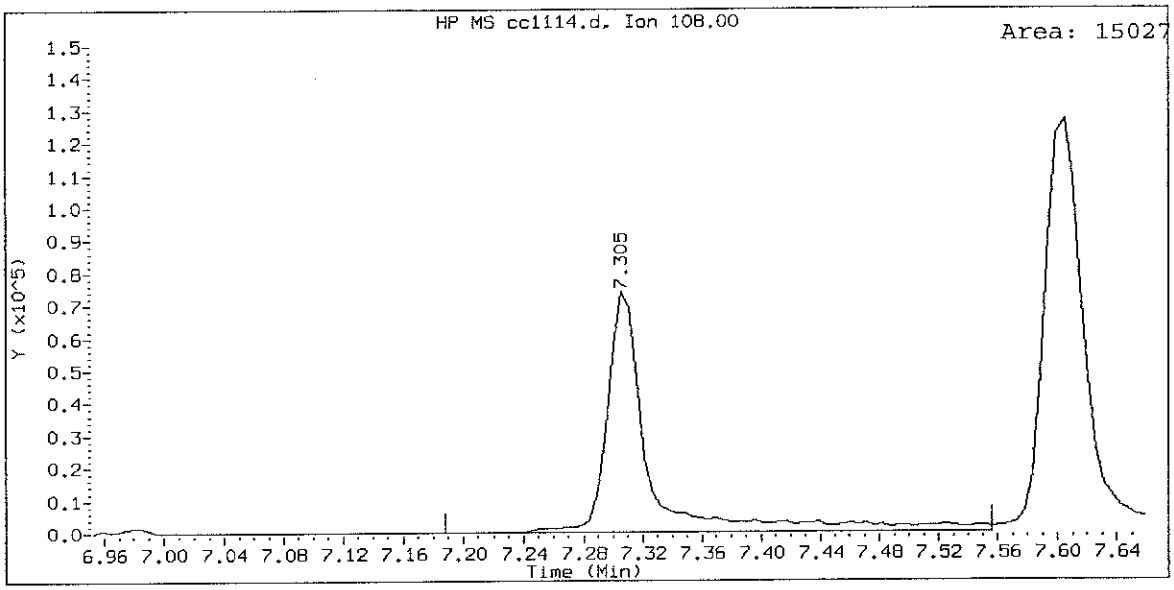
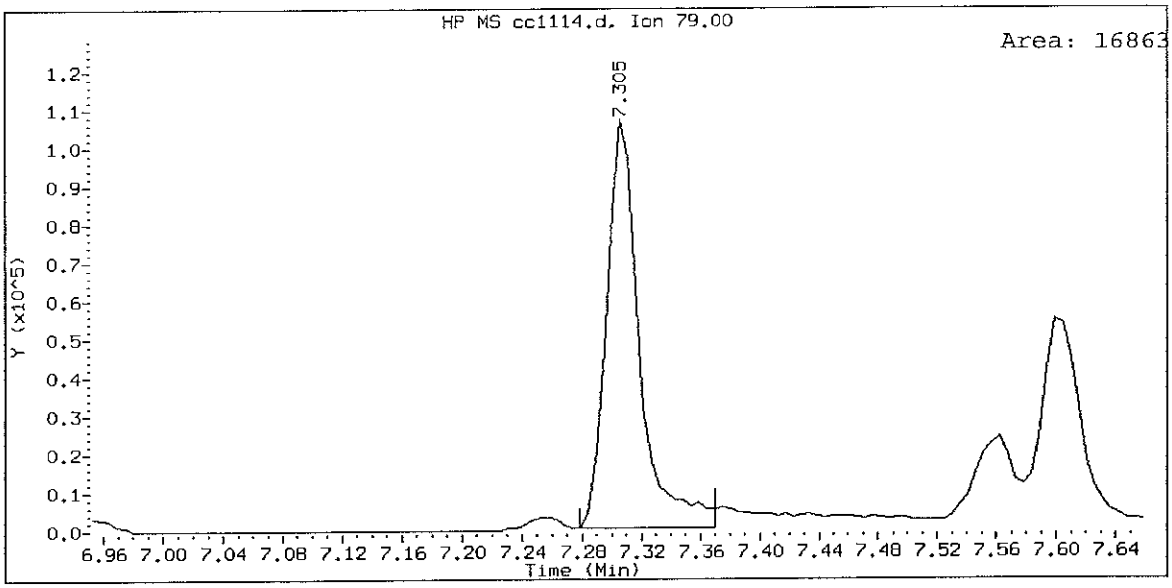
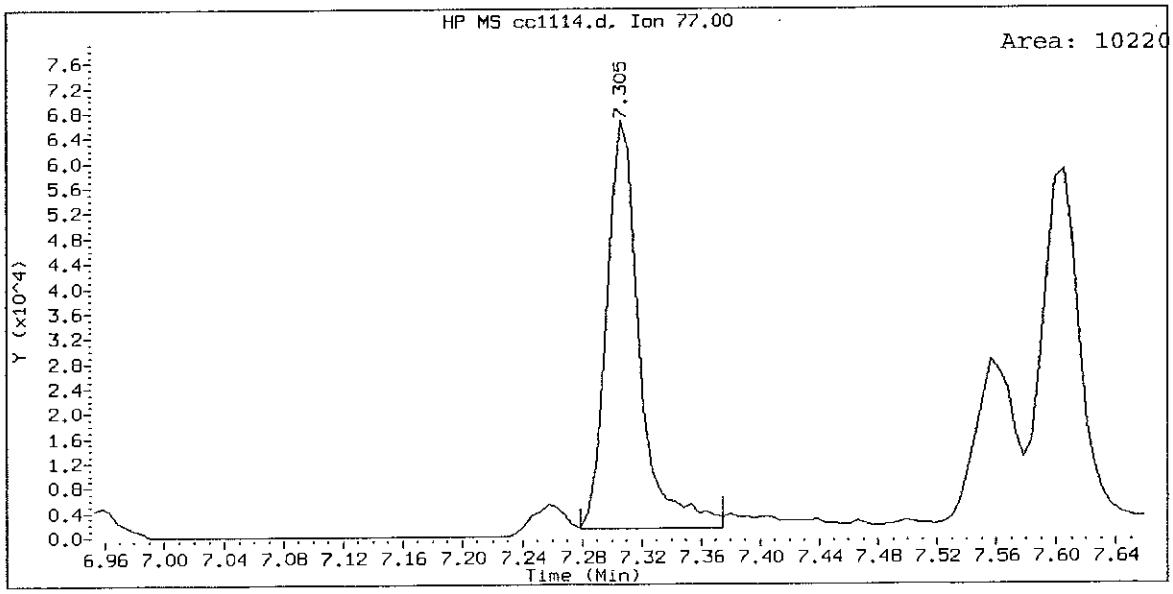
Benzyl alcohol Amount: 21.73







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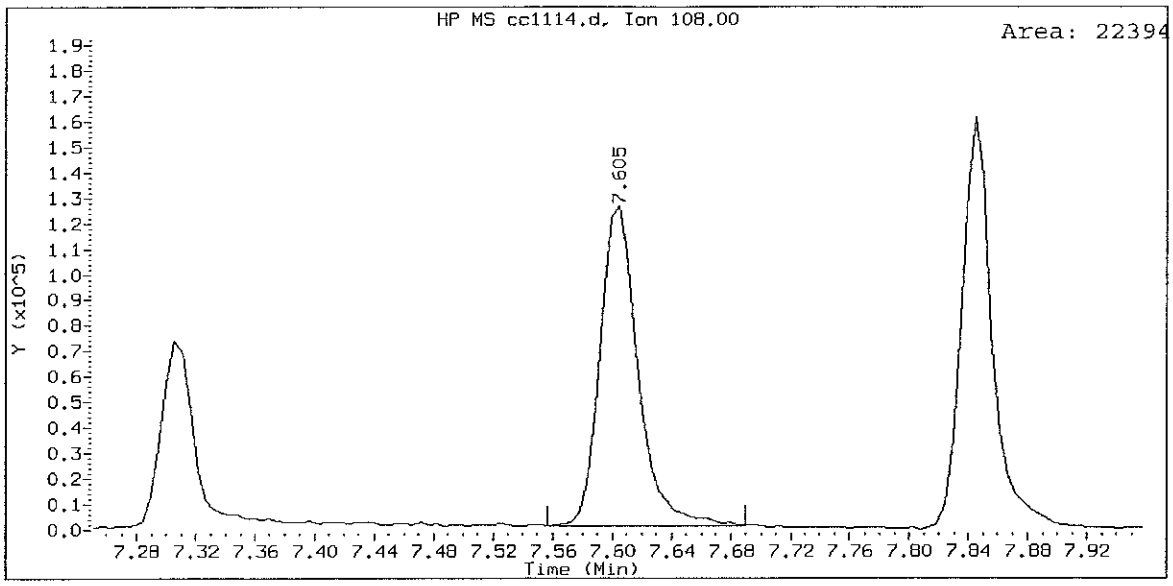
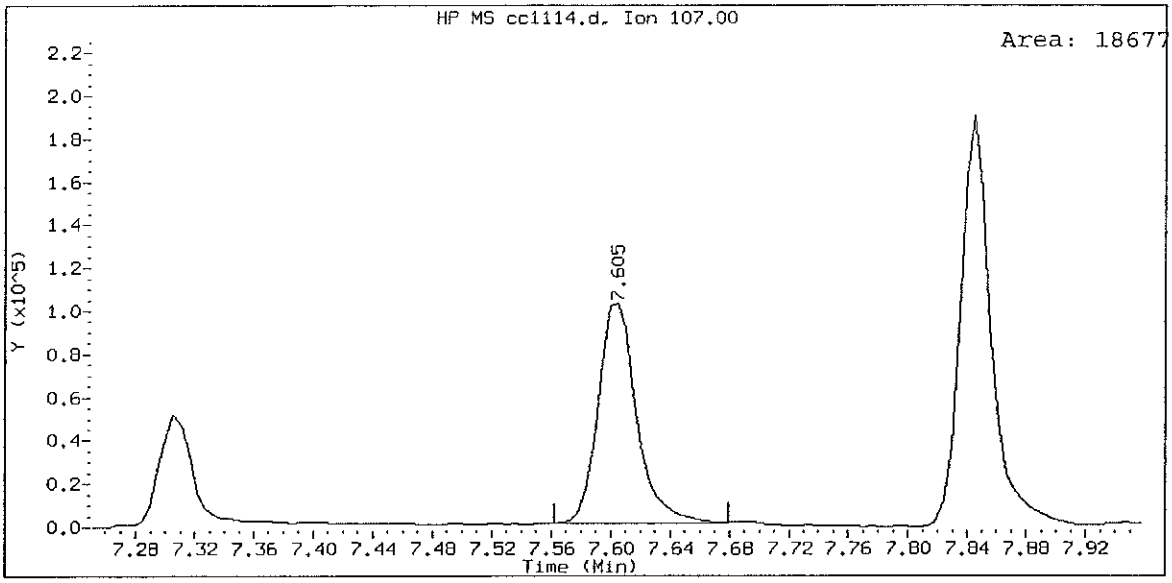
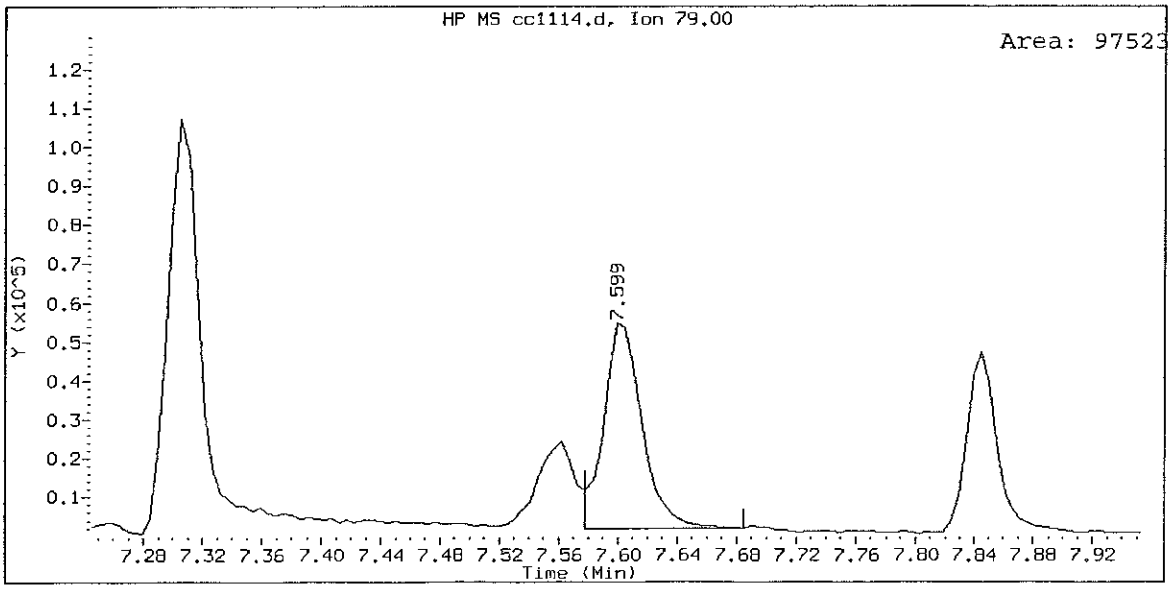
2-Methylphenol Amount: 24.21







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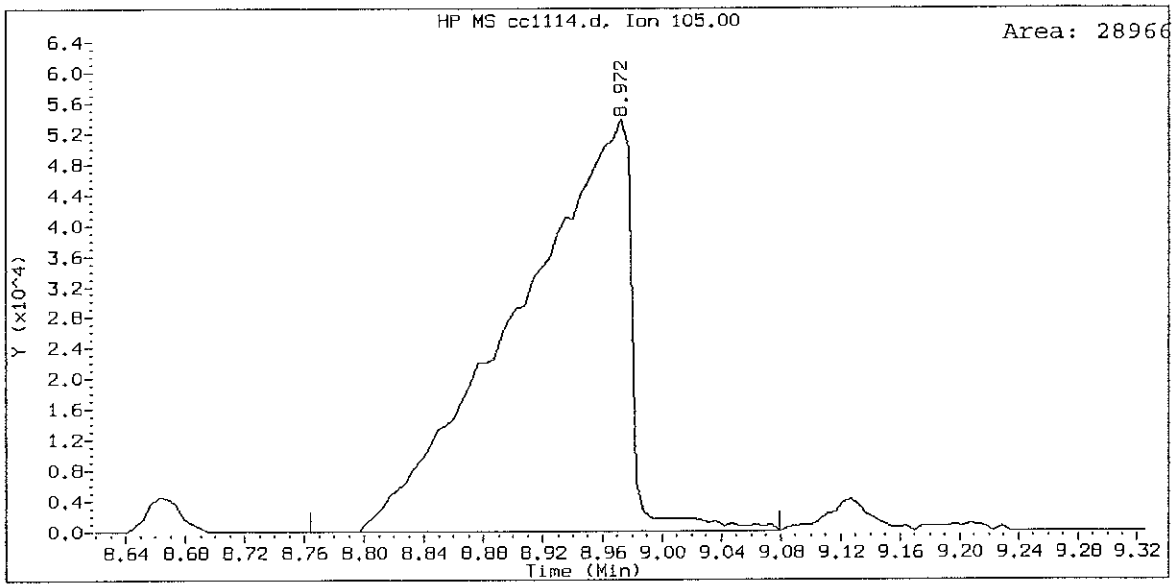
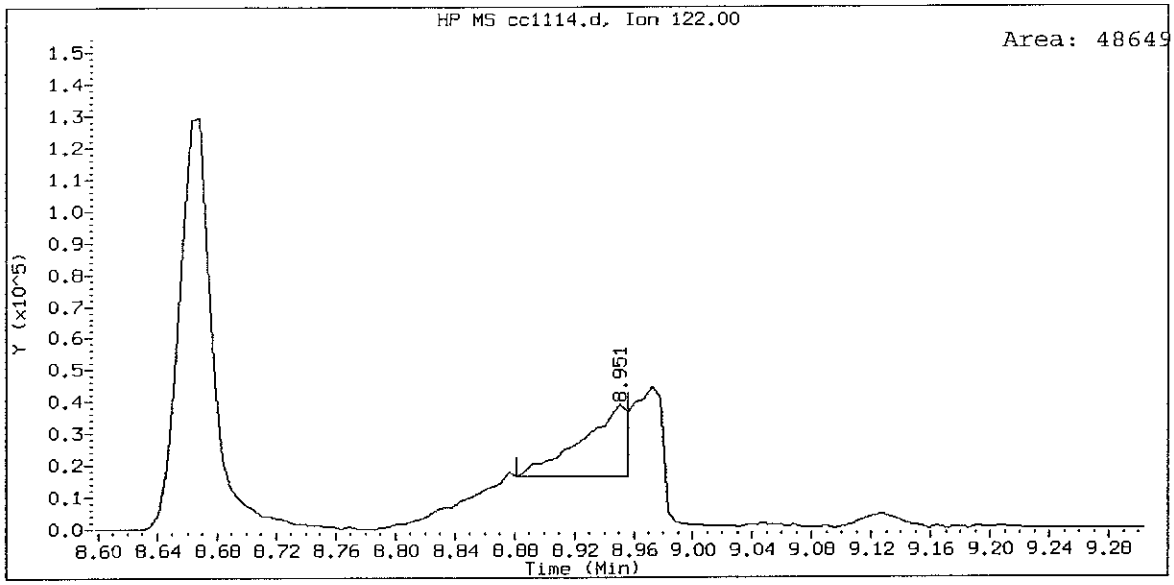
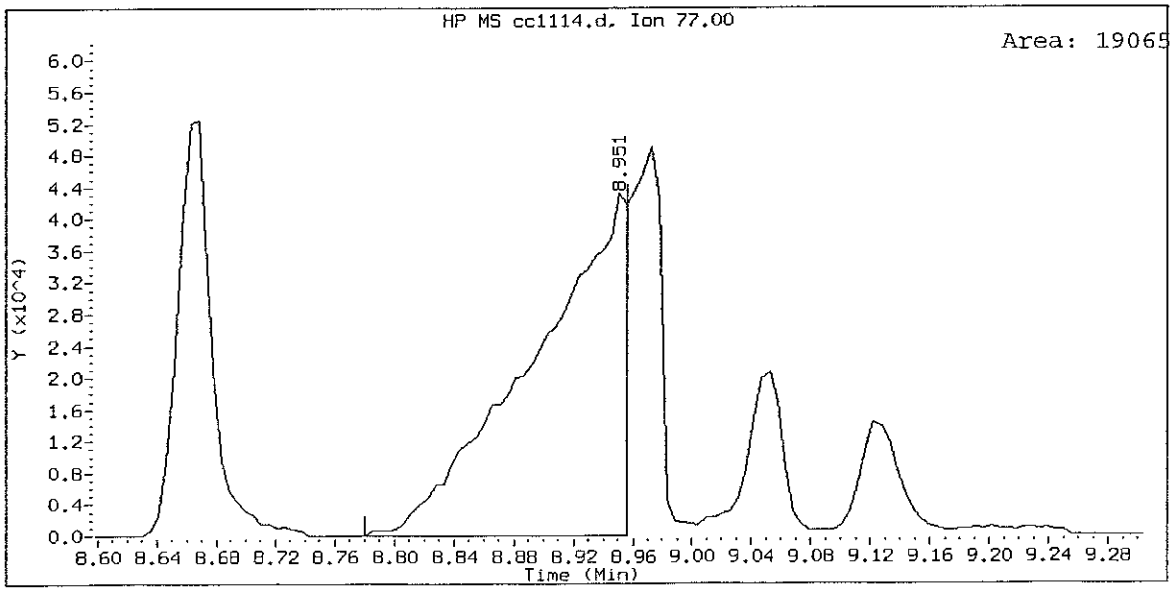
Benzoic acid Amount: 56.52







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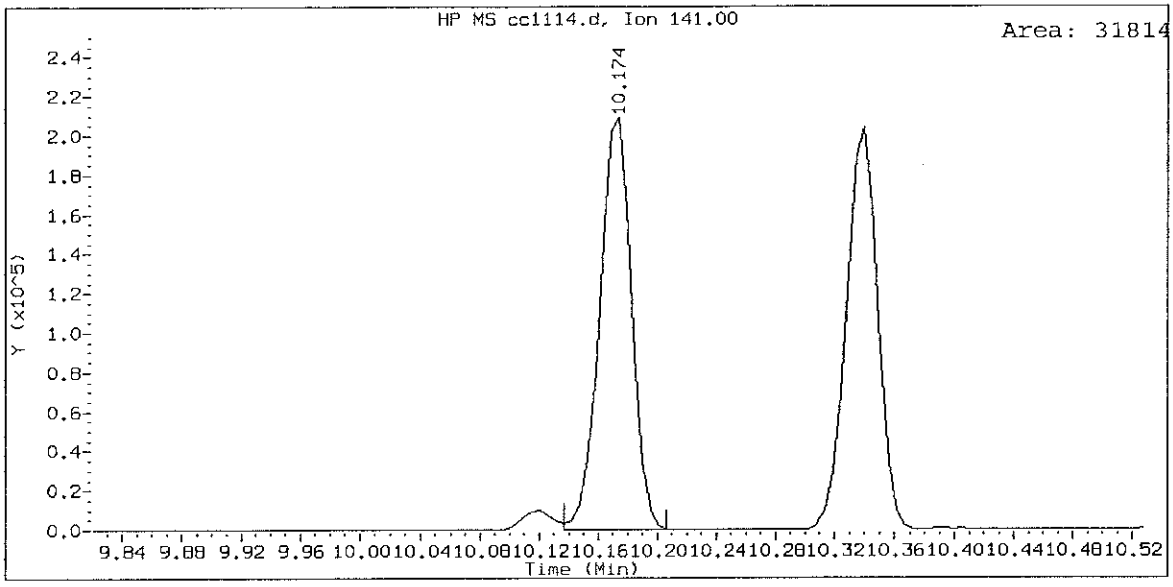
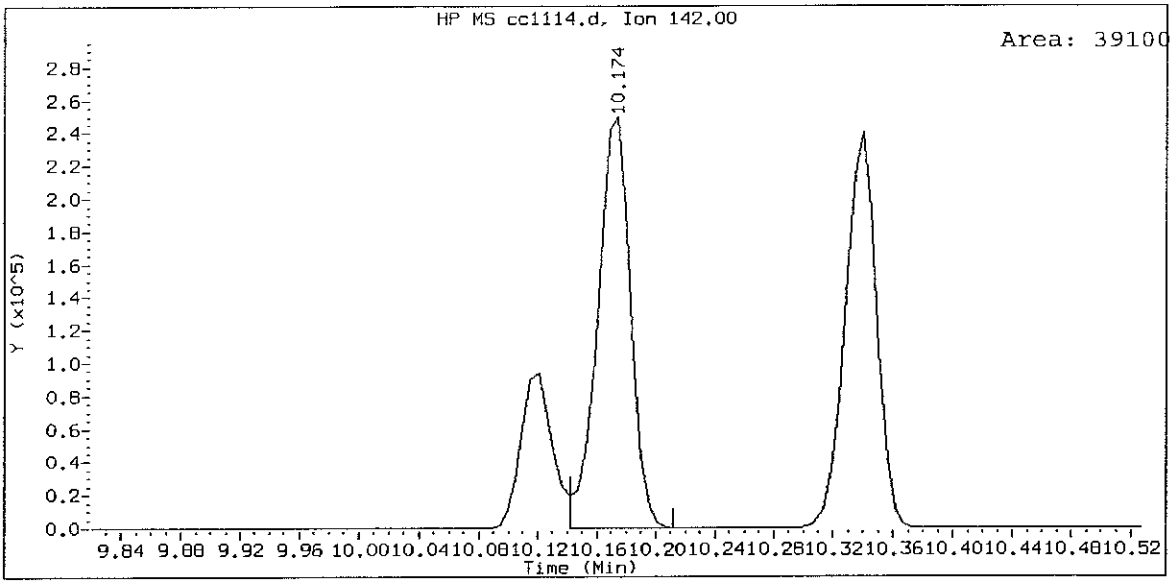
2-Methylnaphthalene Amount: 22.64





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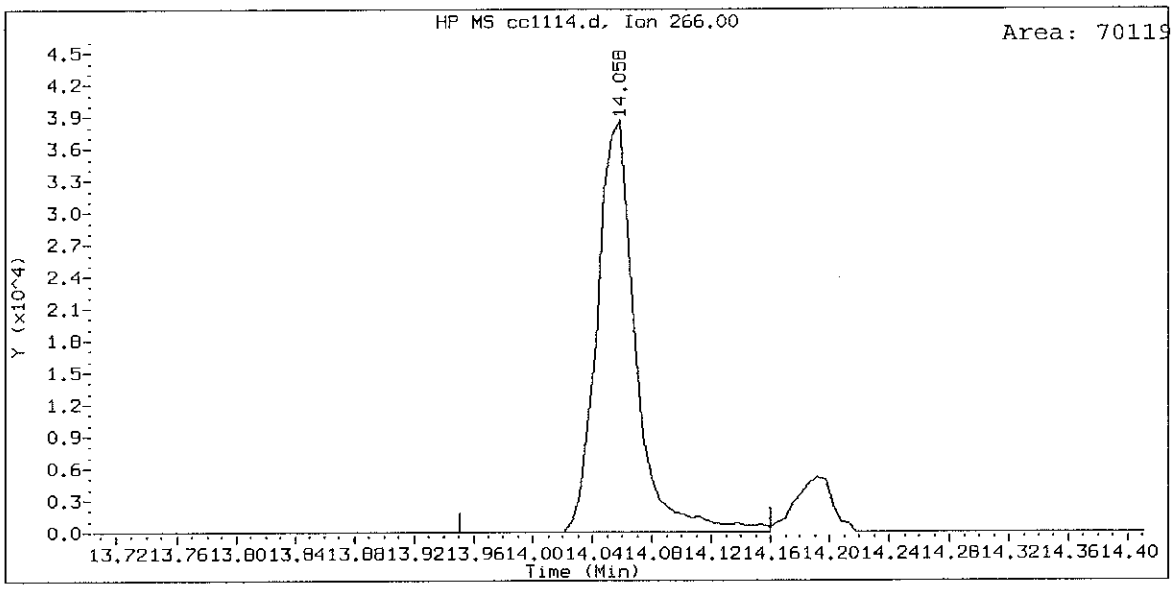
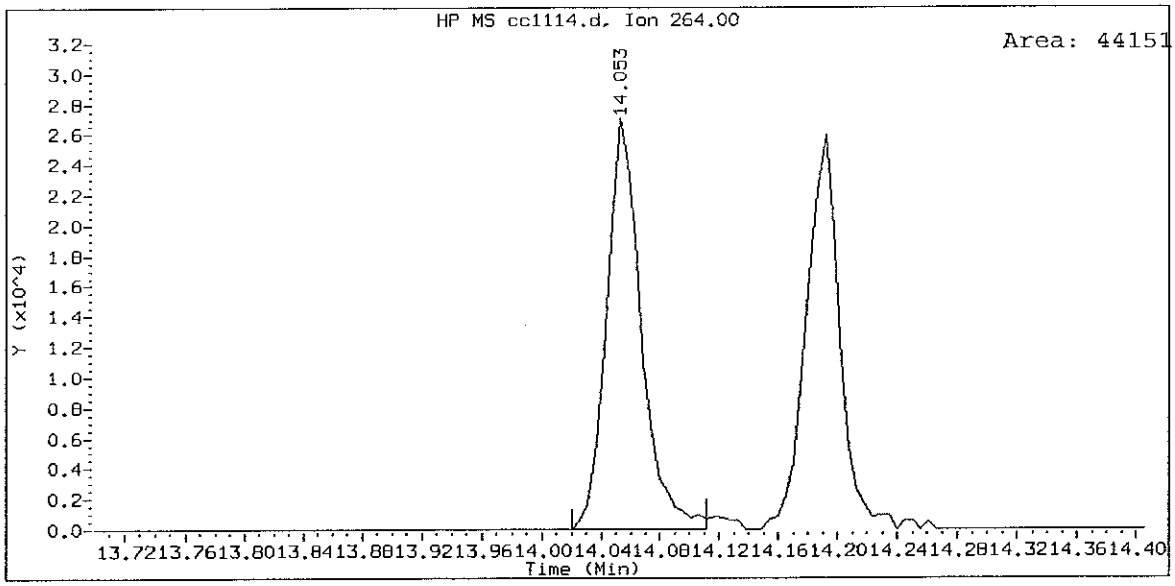
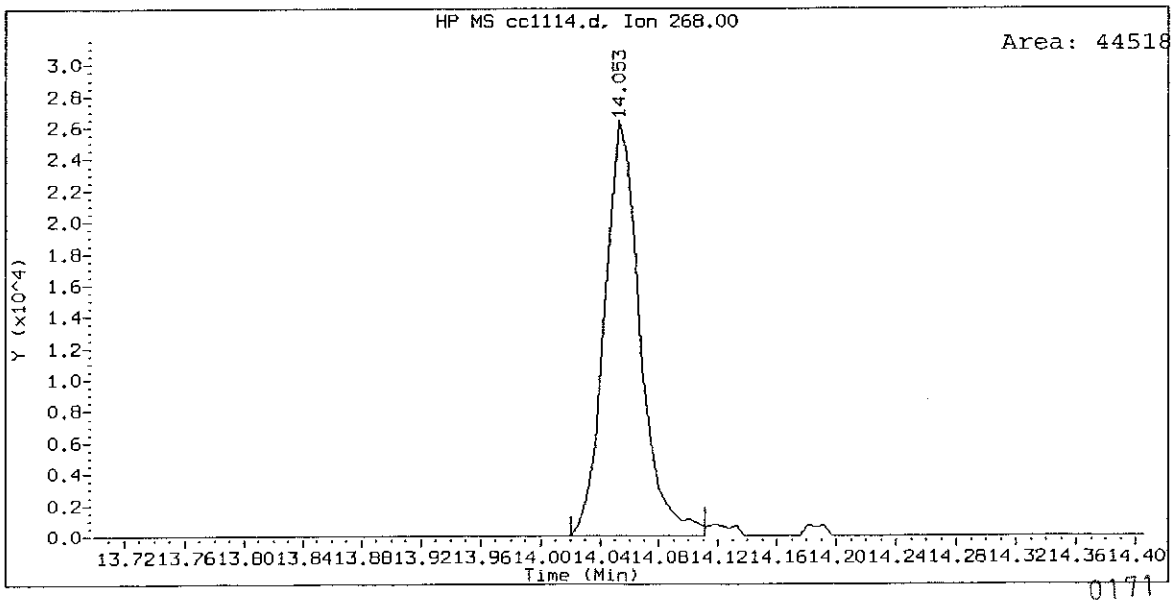
Pentachlorophenol Amount: 20.25







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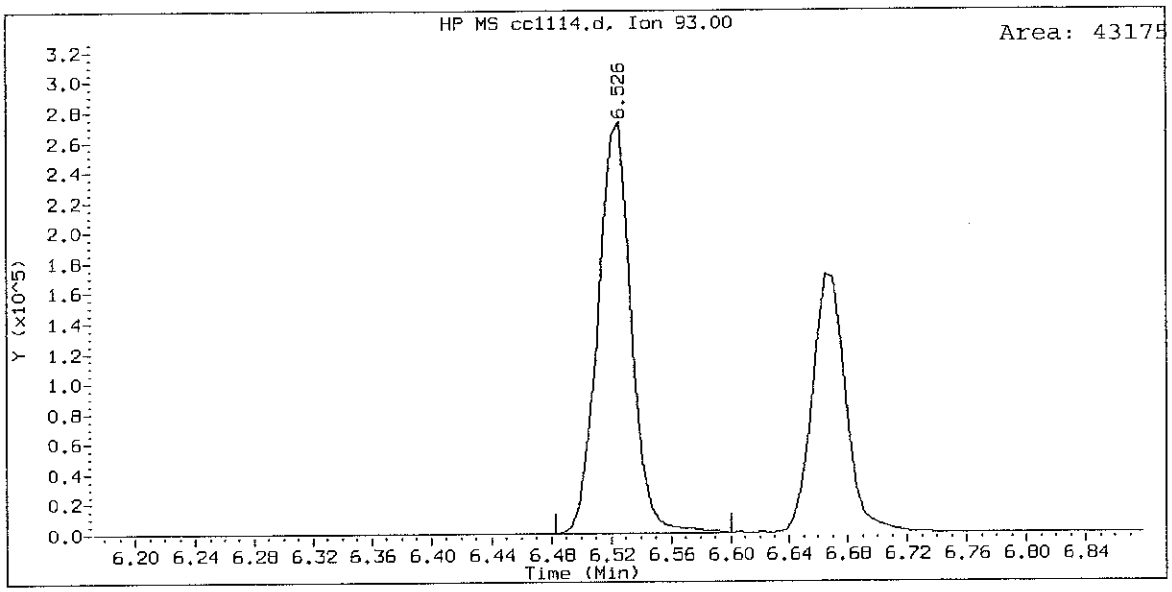
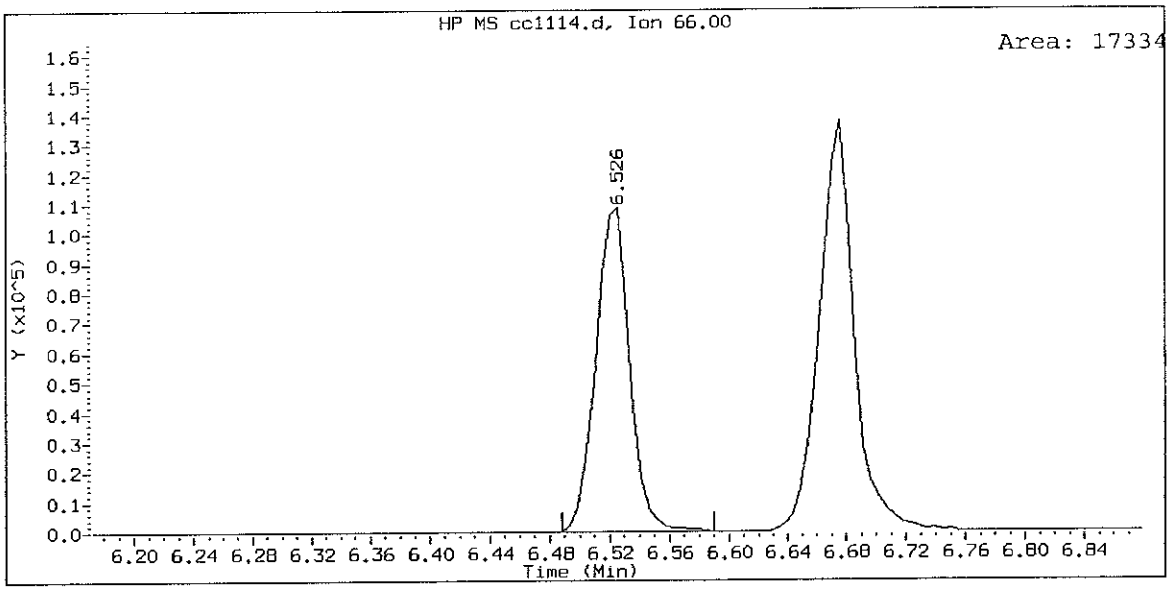
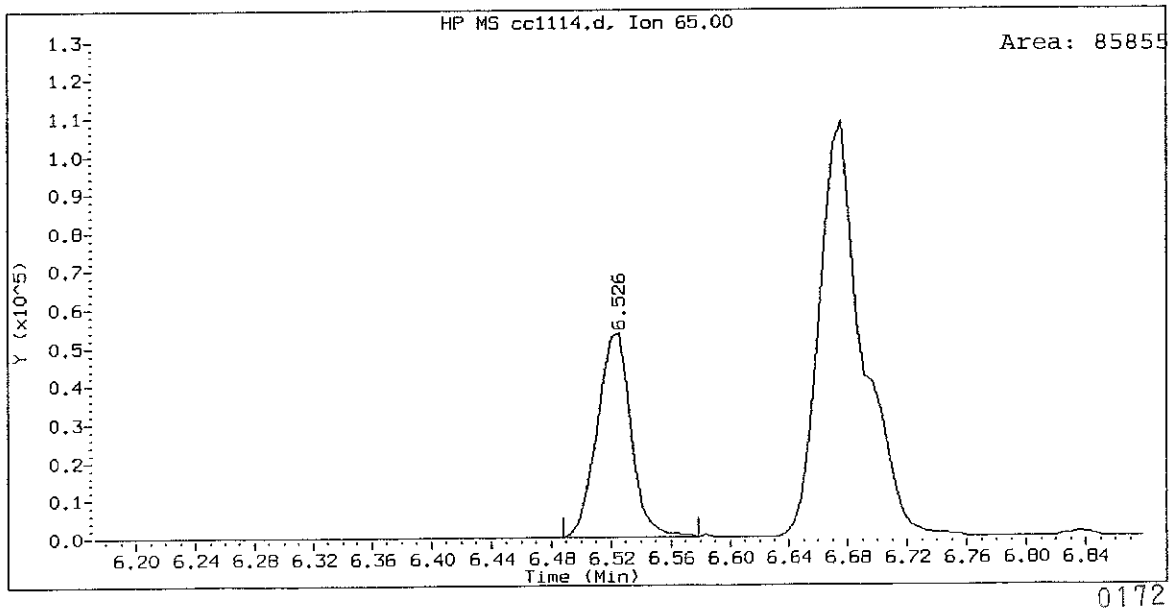
Aniline Amount: 23.20







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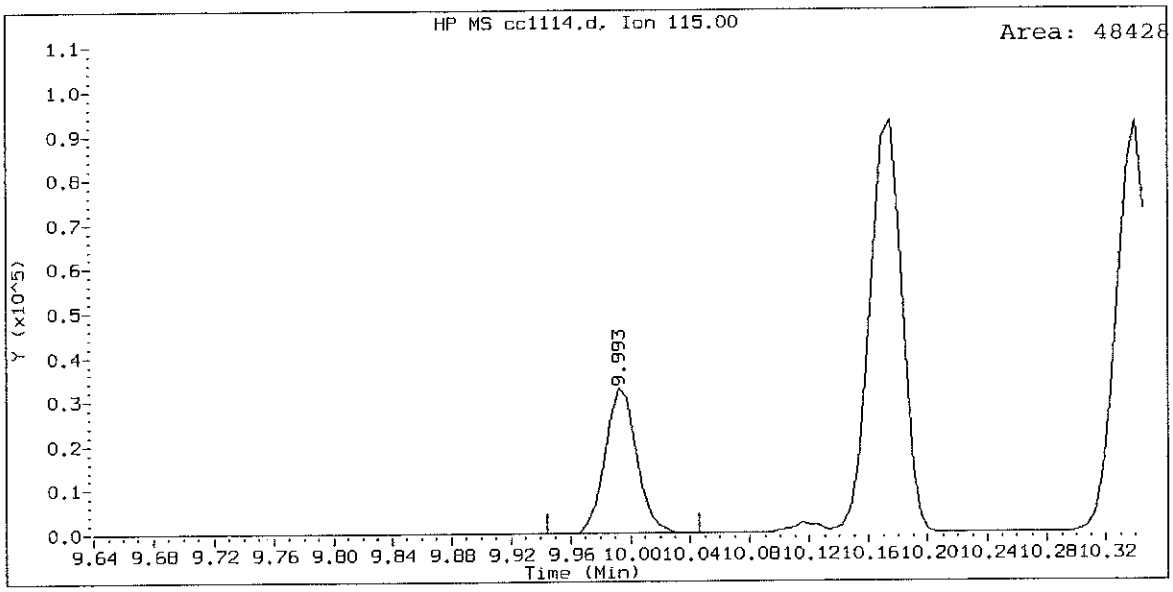
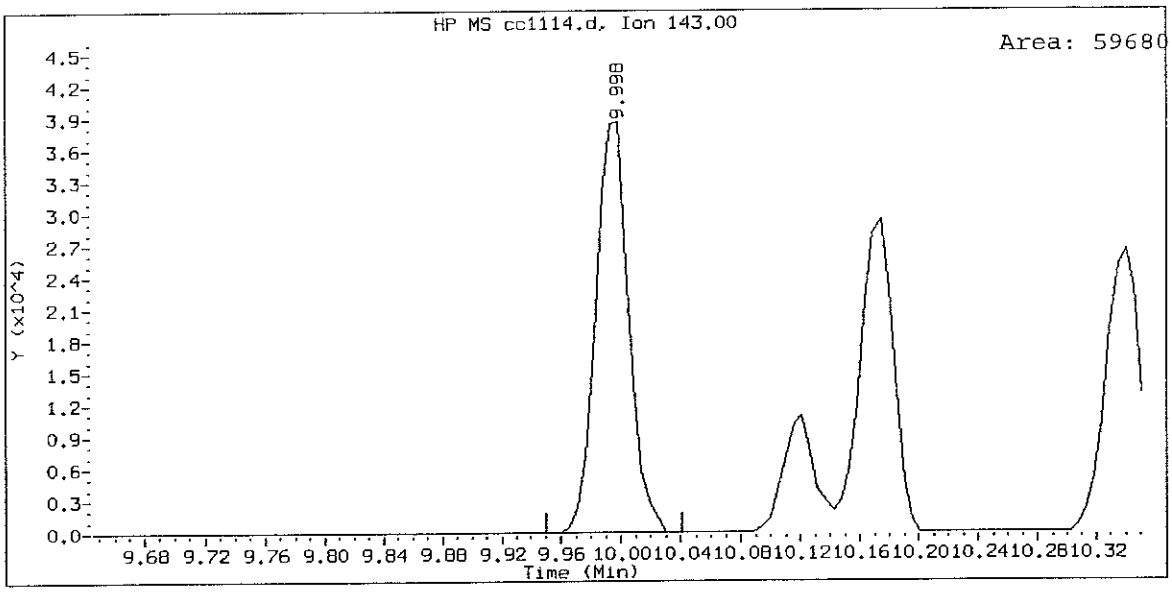
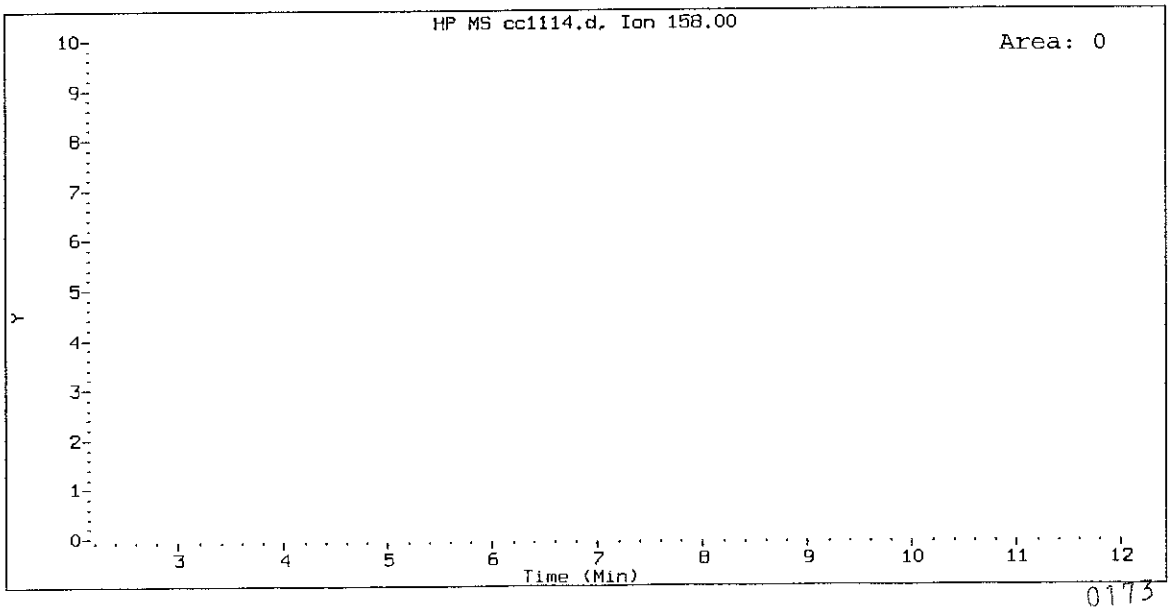
4-Chloroguaiacol Amount: 11.87







0173

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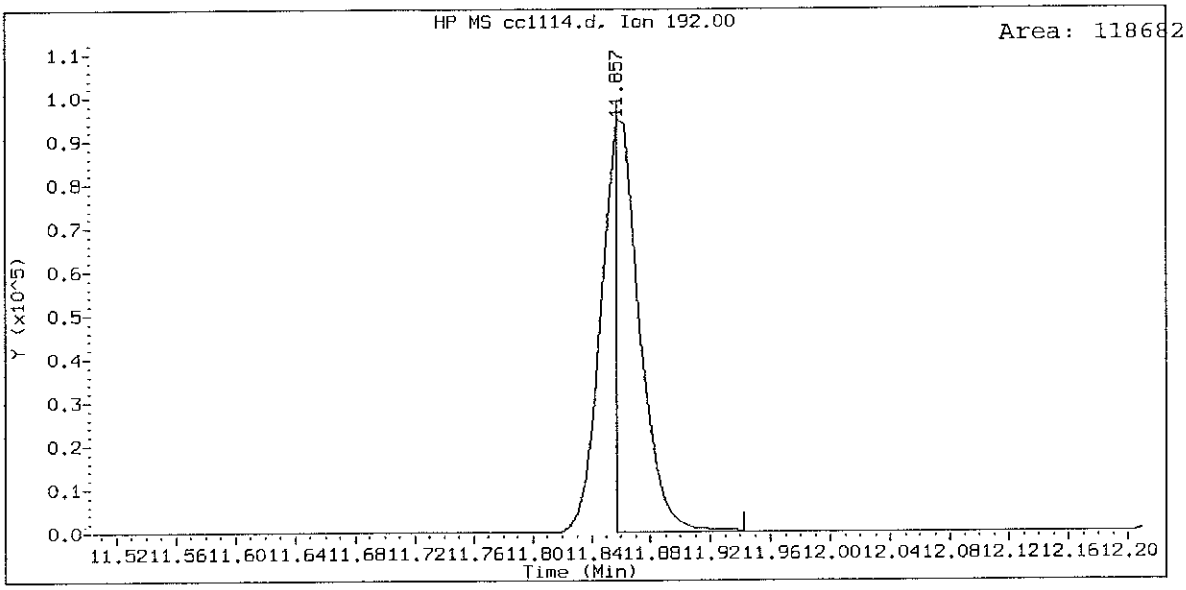
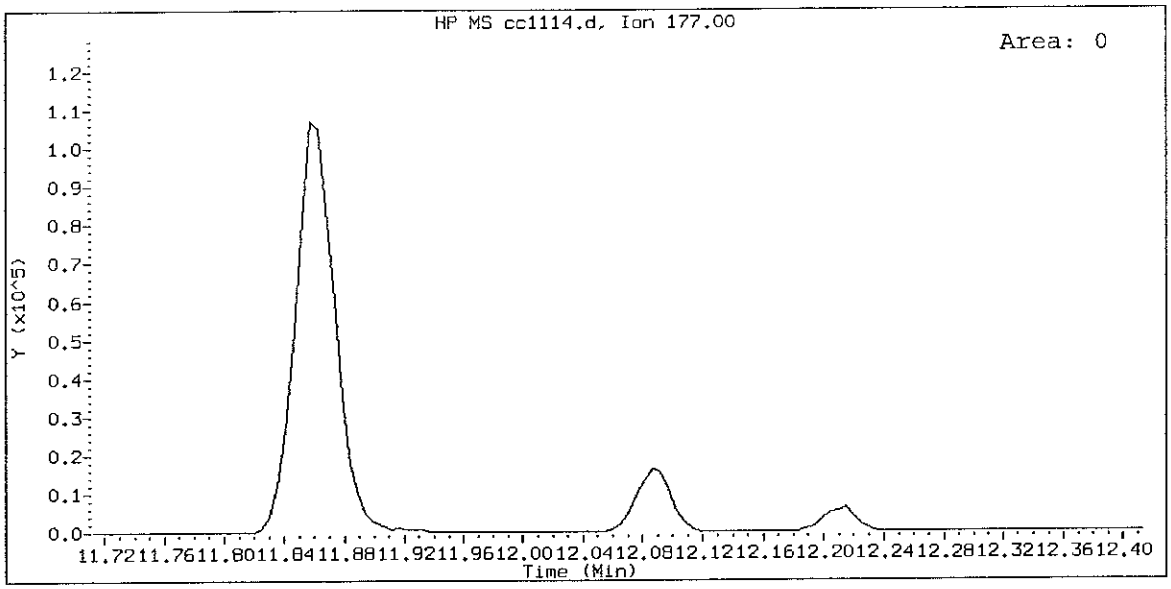
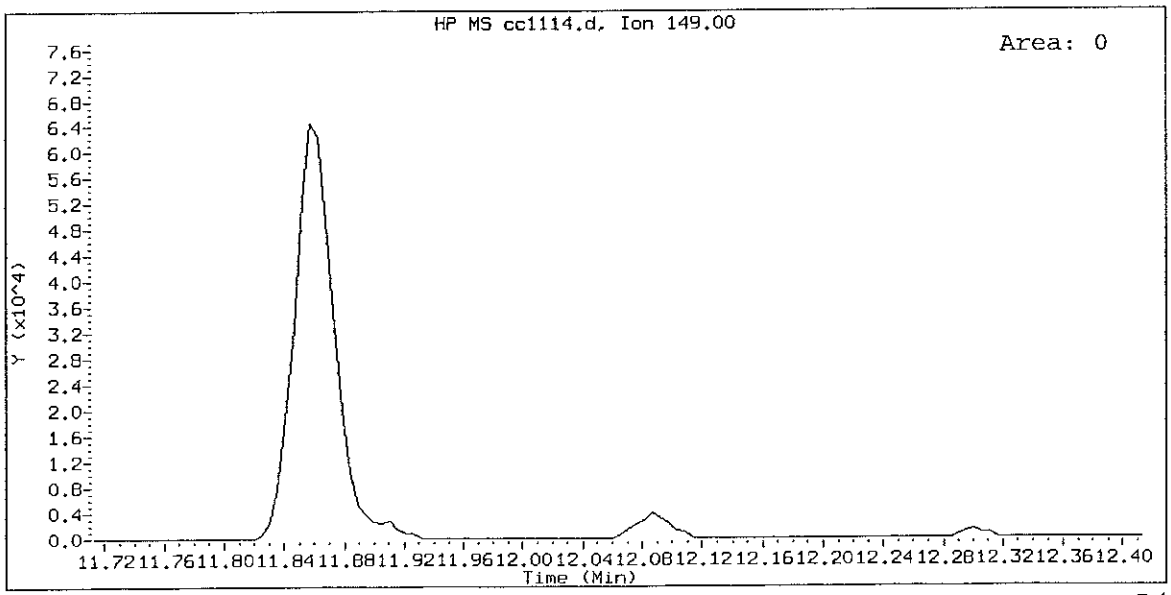
4,6-Dichloroguaiacol Amount: 23.56







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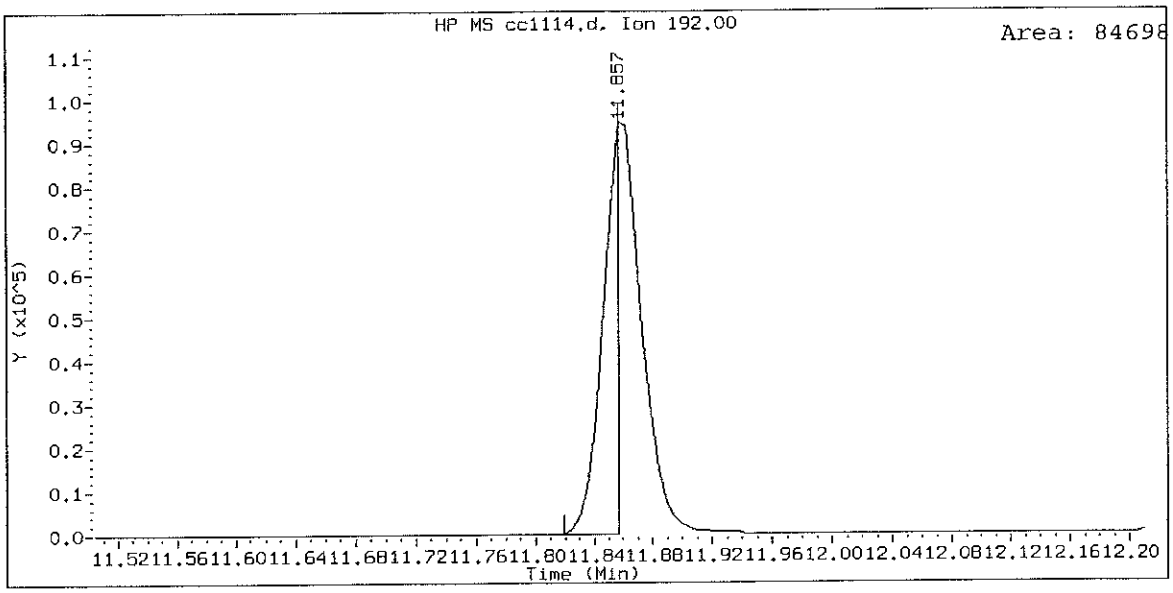
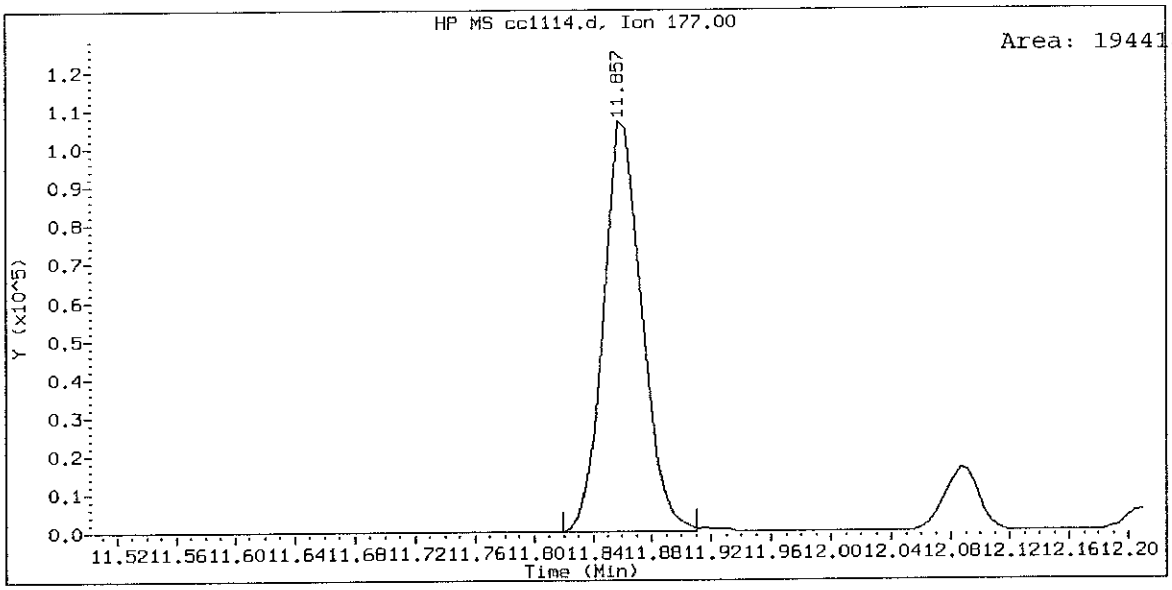
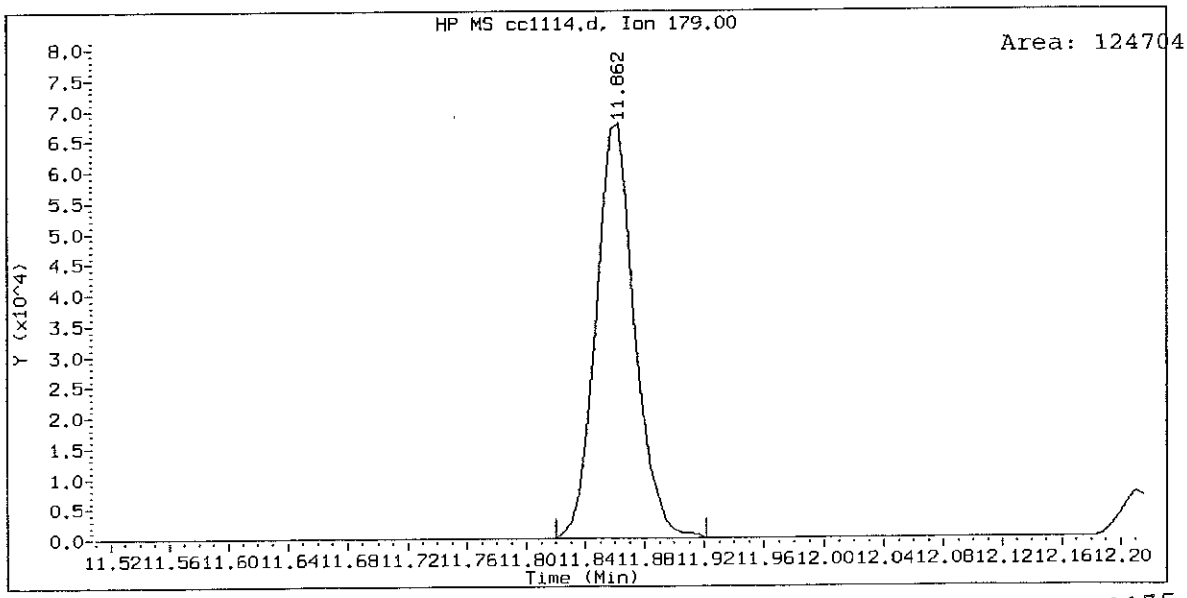
4,5-Dichloroguaiacol Amount: 22.39







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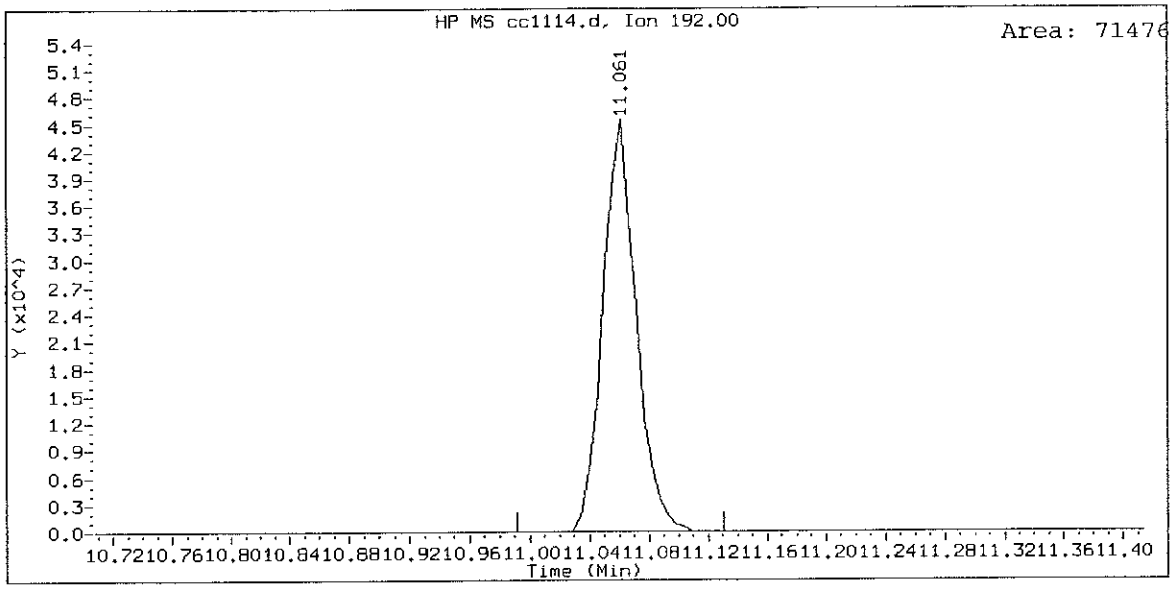
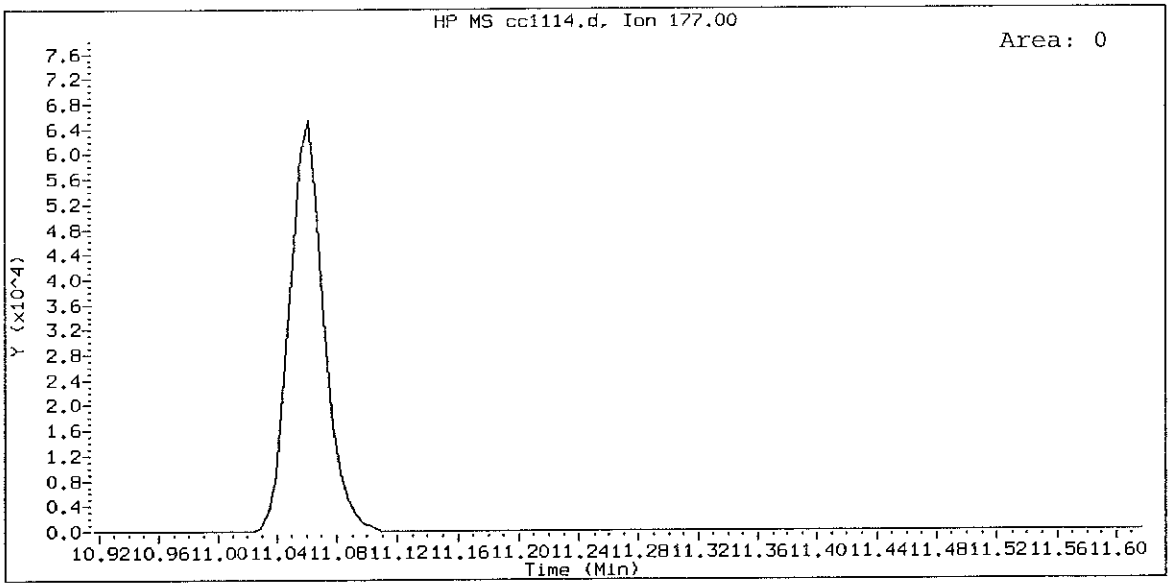
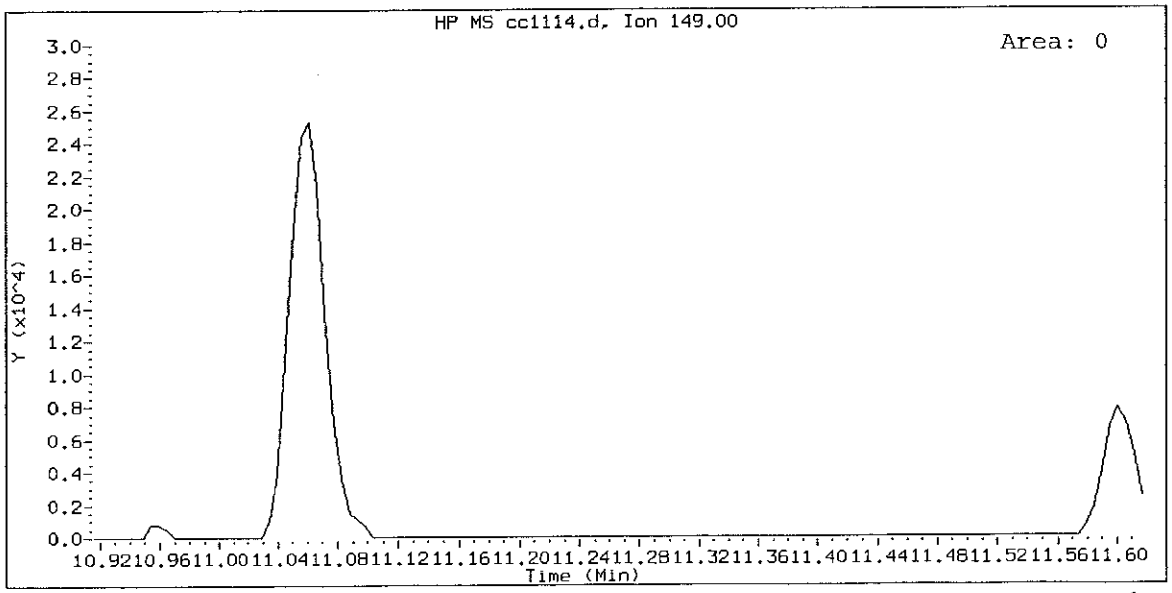
3,4-Dichloroguaiacol Amount: 24.65







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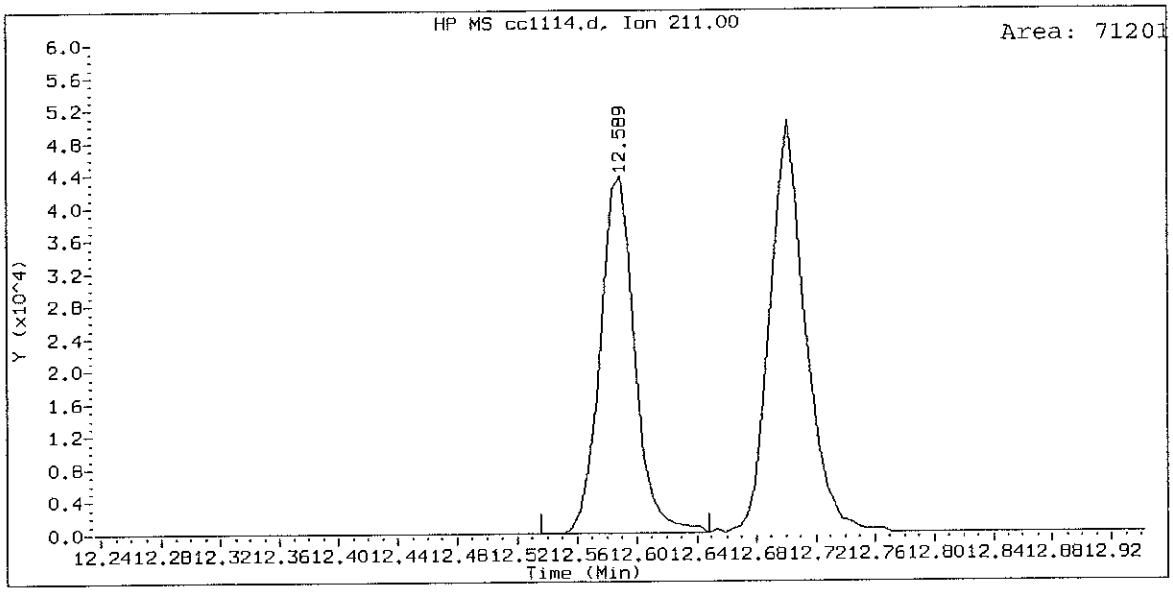
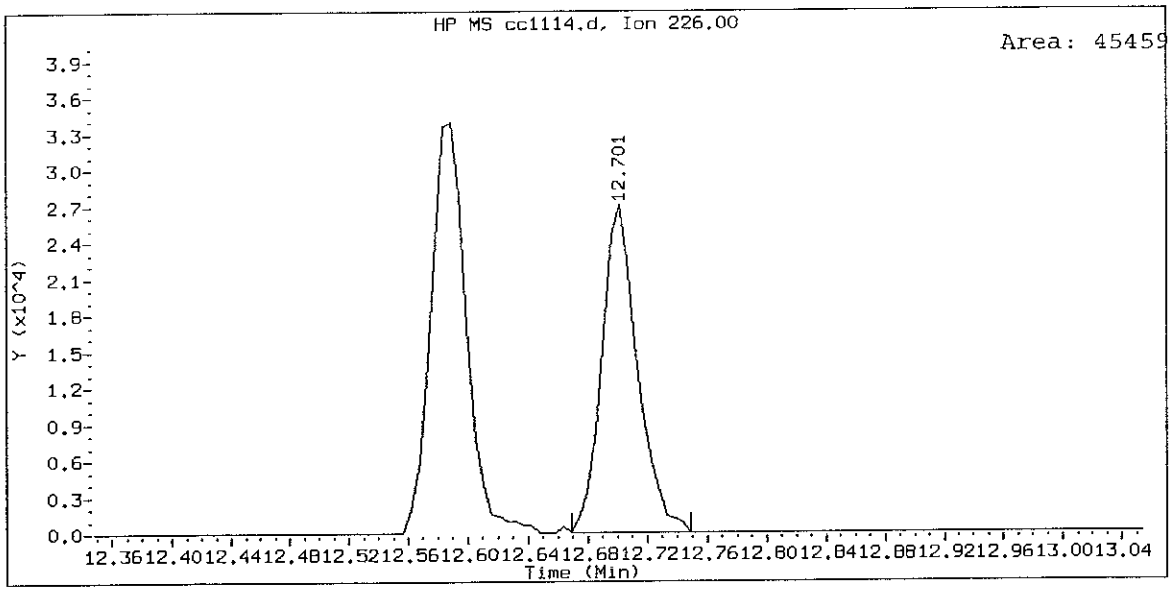
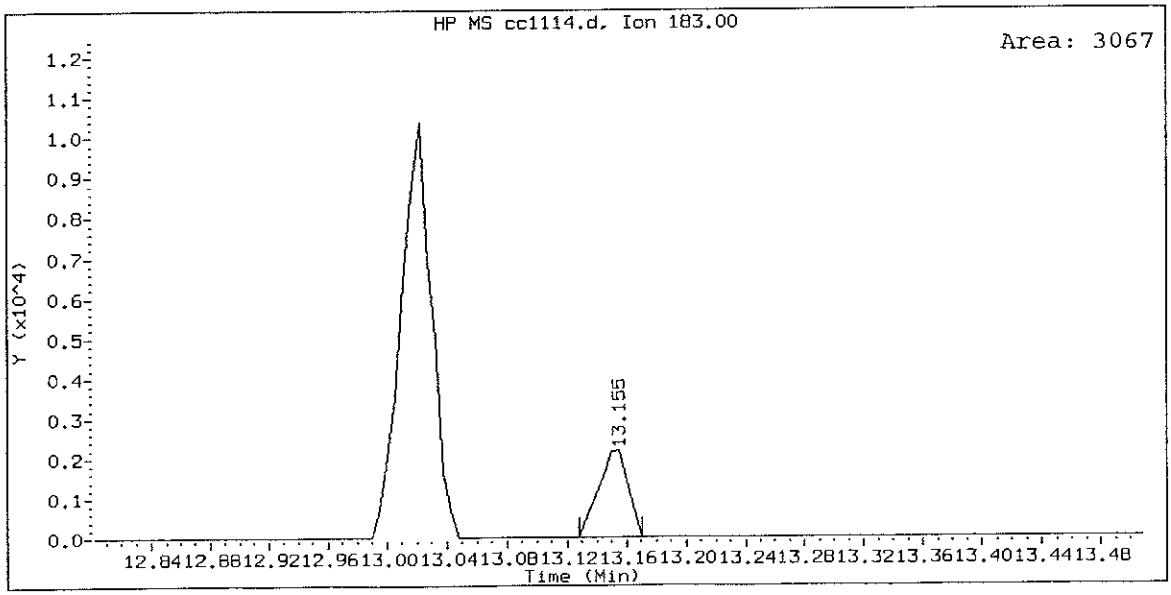
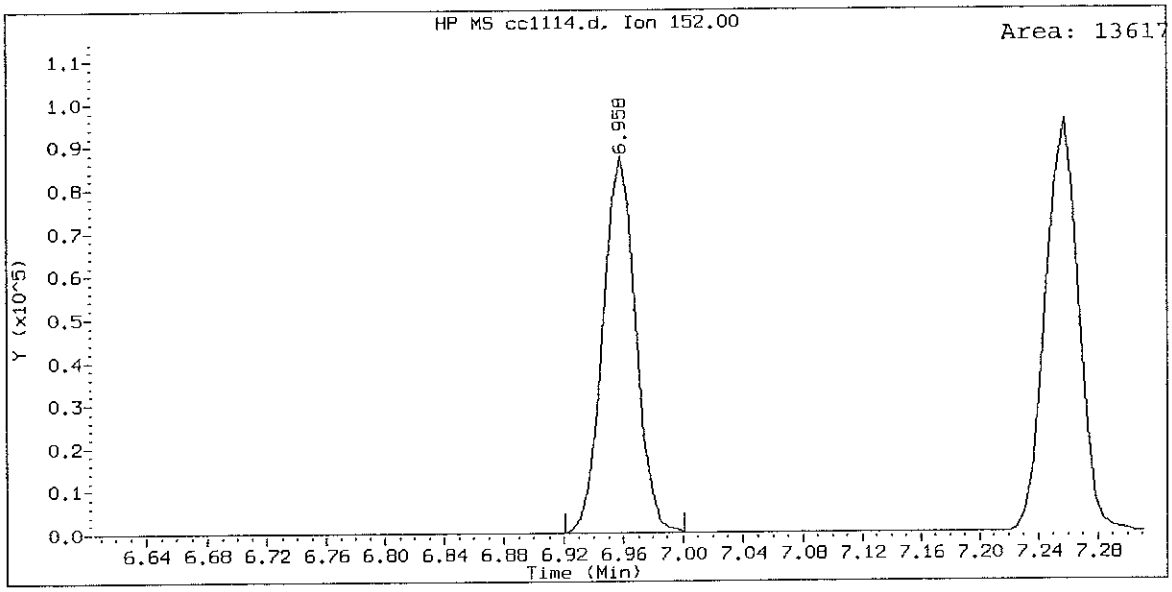
3,4,6-Trichloroguaiacol Amount: 23.00

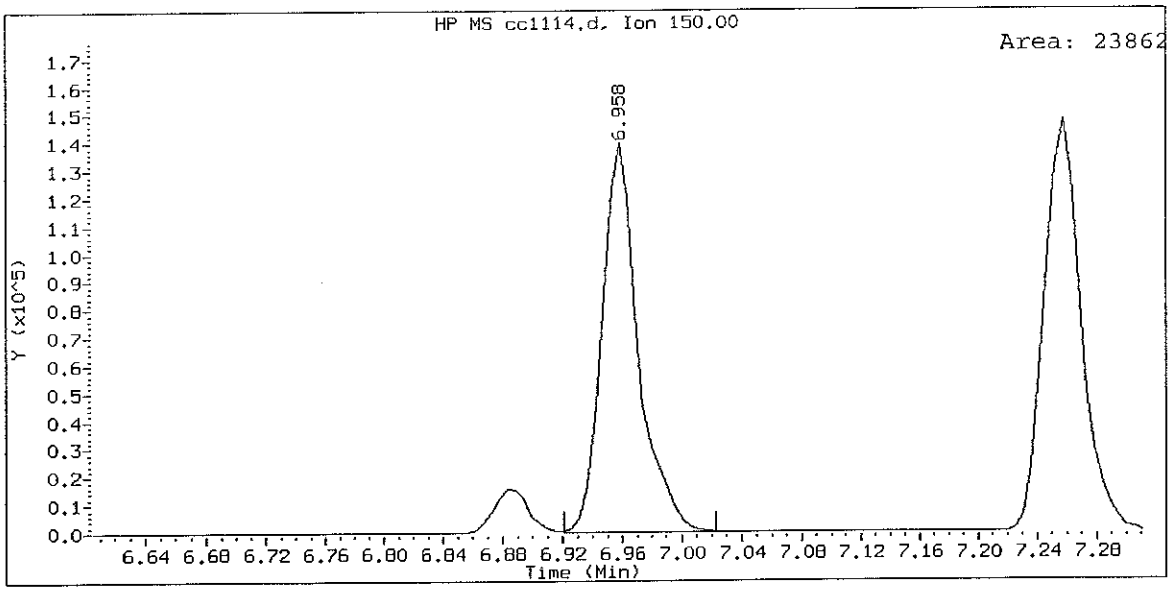


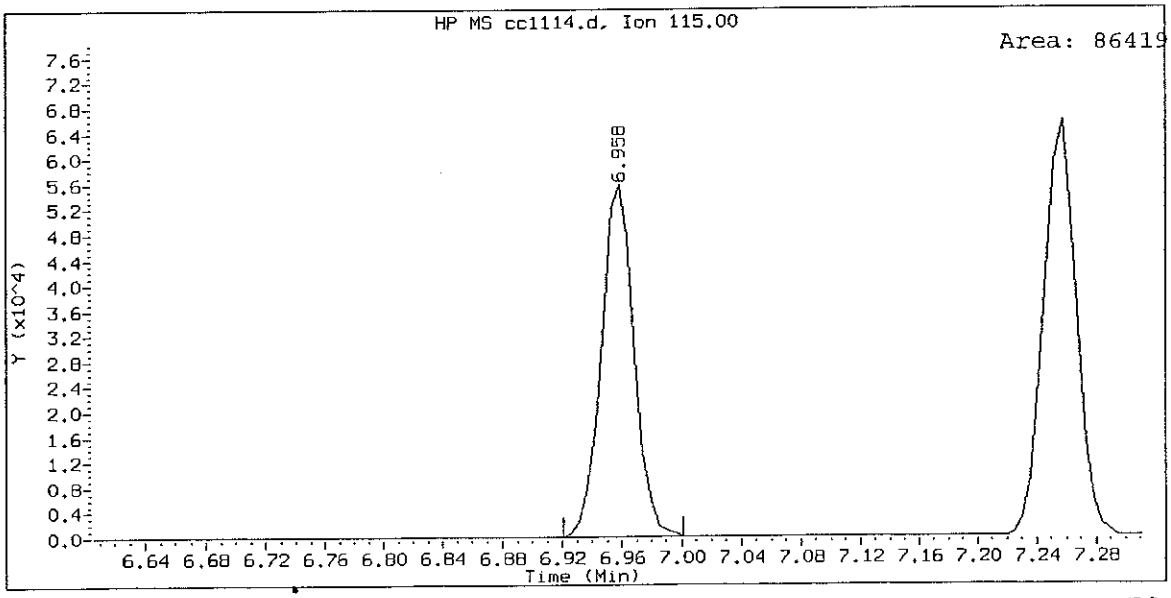




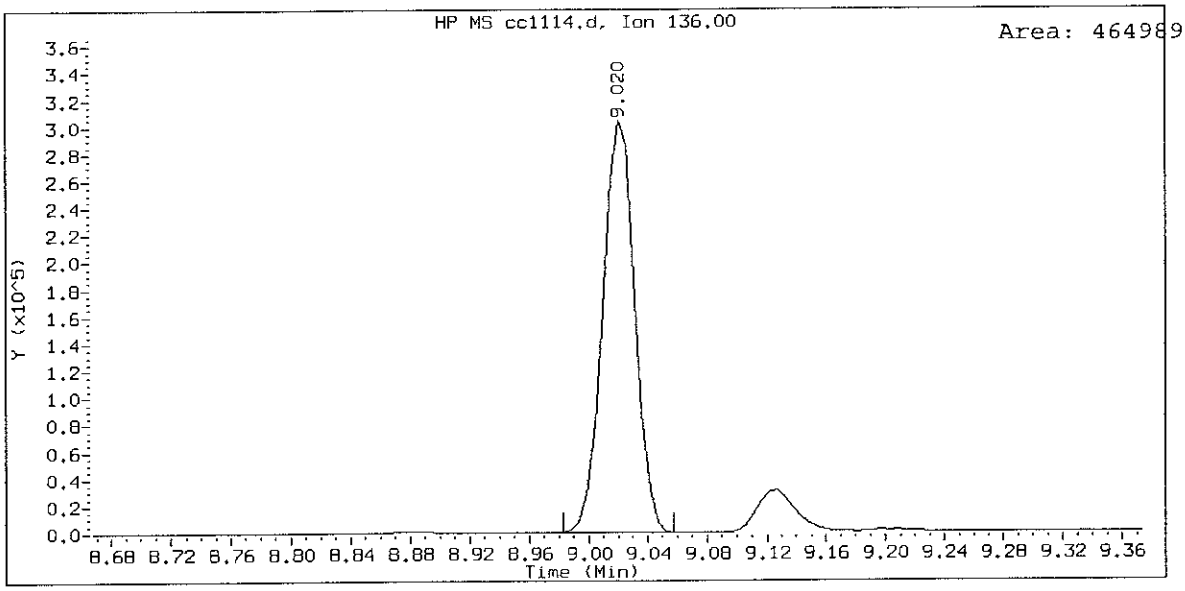
ABN 25, /chem1/nt6.i/20081114.b/cc1114.d
1,4-Dichlorobenzene-d4 Amount: 20.00

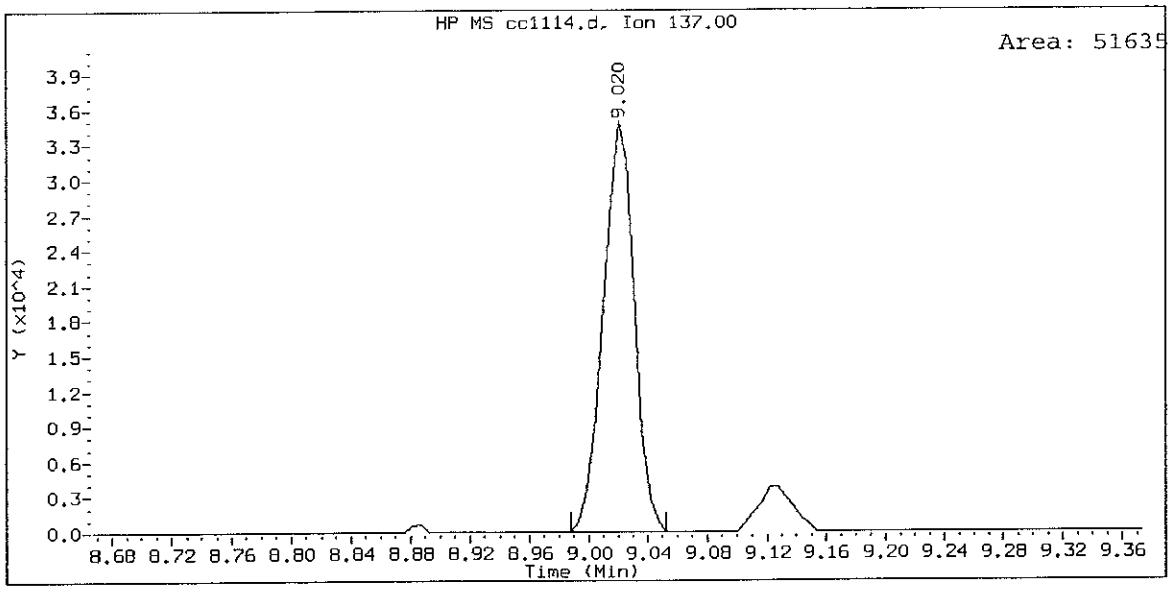


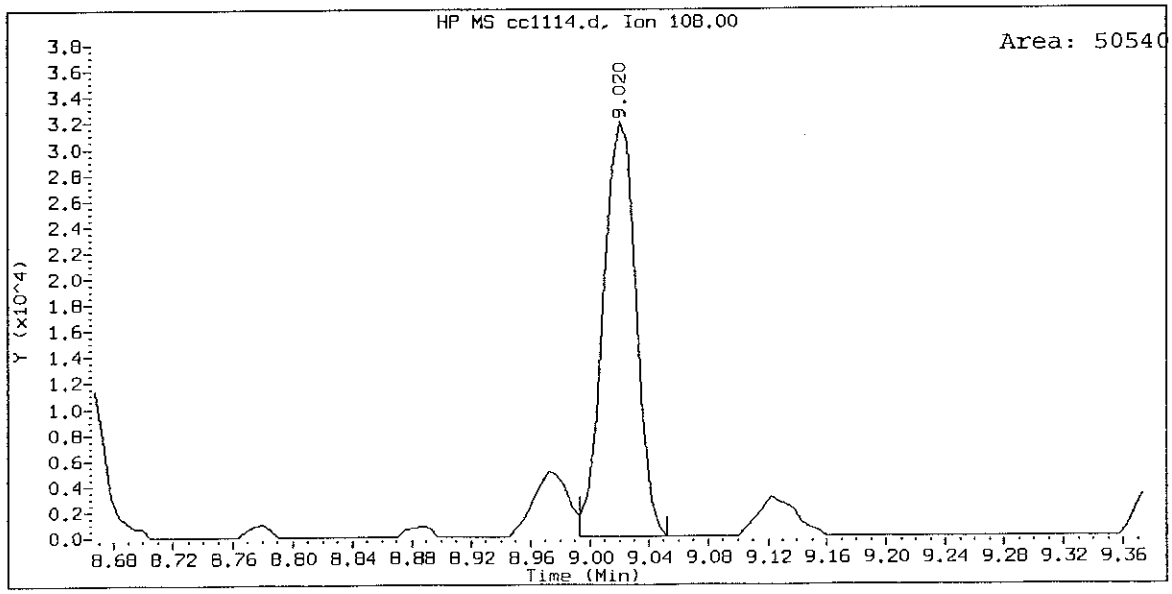




ABN 25, /chem1/nt6.i/20081114.b/cc1114.d
Naphthalene-d8 Amount: 20.00







Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem1/nt6.i/20081114.b/ddt.b/cc1114.d
Method: /chem1/nt6.i/20081114.b/ddt.b/sw846ddt.m
Analysis Date: 14-NOV-2008 11:04

ARI ID:
Misc:
Instrument: nt6.i

COMPOUND	RT	AREA
Pentachlorophenol	14.058	79011
Benzidine	16.446	277507
4,4'-DDE	----	----
4,4'-DDD	17.359	1948
4,4'-DDT	17.824	217527

NK 11/17/08

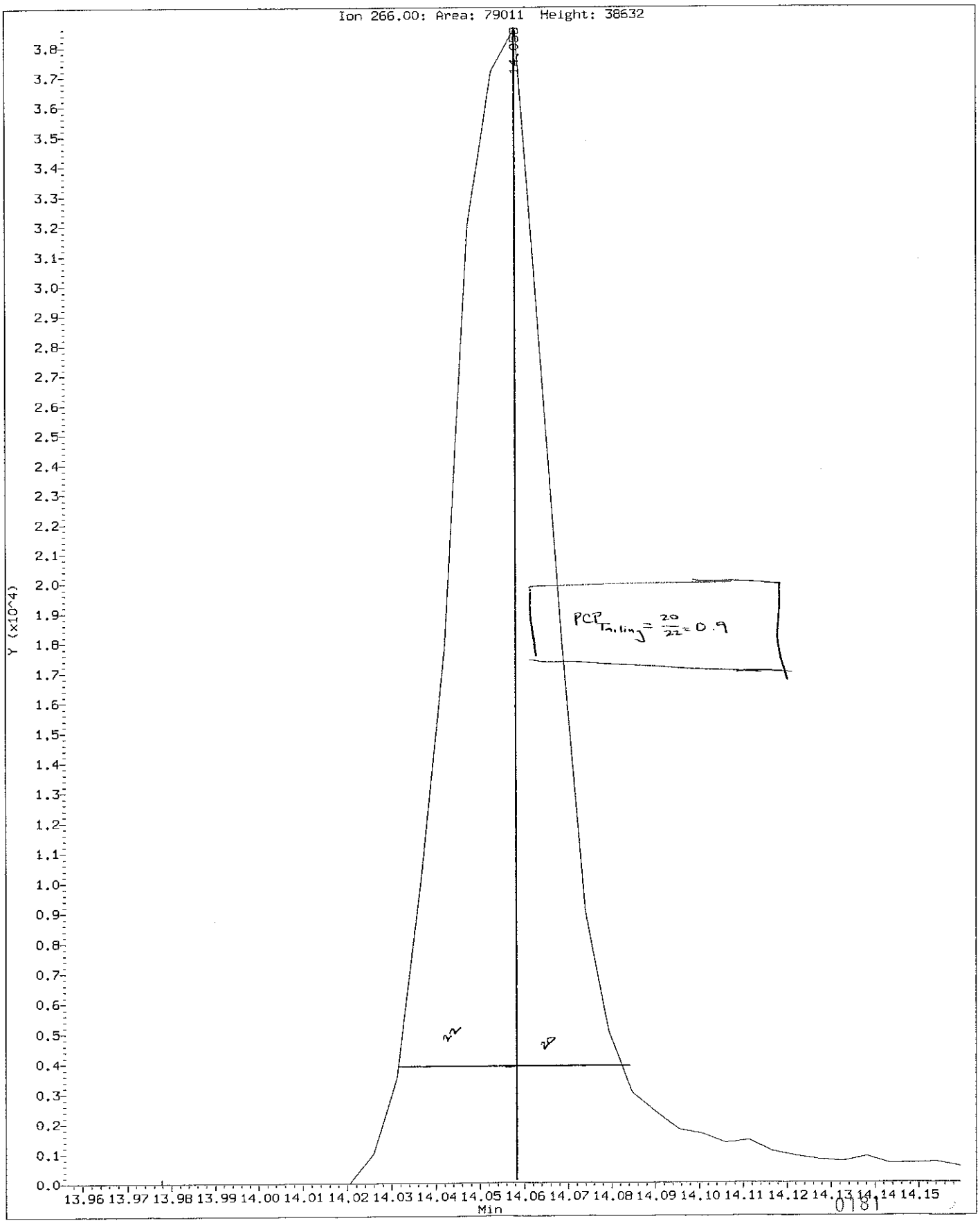
$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(\ 0 + 1948) * 100}{(\ 0 + 1948 + 217527)}$$

DDT Percent Breakdown = 0.9 %

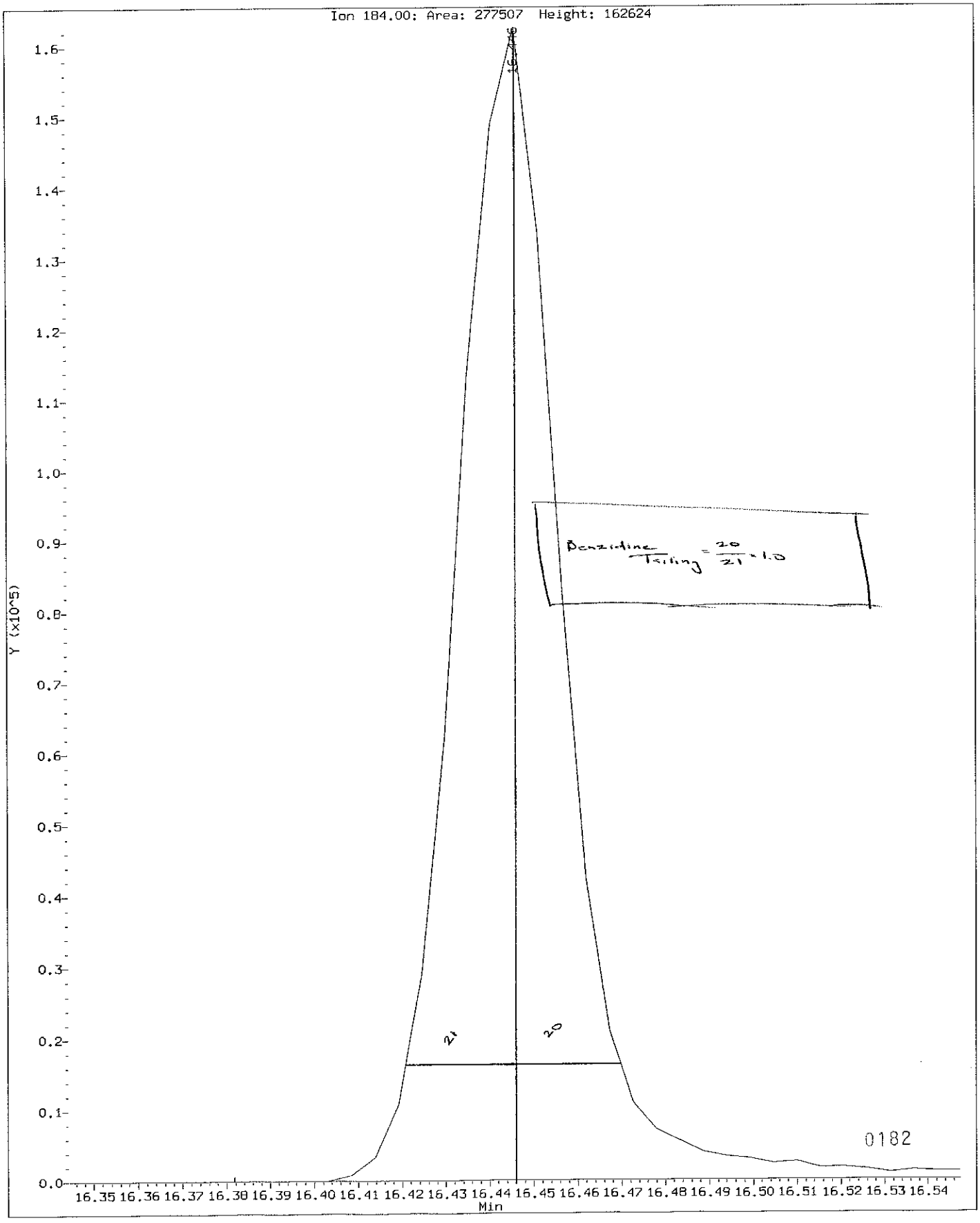
Data File: /chem1/nt6.i/20081114.b/ddt.b/cc1114.d
Injection Date: 14-NOV-2008 11:04
Instrument: nt6.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem1/nt6.i/20081114.b/ddt.b/cc1114.d
Injection Date: 14-NOV-2008 11:04
Instrument: nt6.i
Client Sample ID:

Compound: Benzidine
CAS Number:



SVOA Analysis
QC Raw Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NX36

prepared
by

Analytical Resources, Inc.

Data File: /chem1/nt6.i/20081030.b/tune.b/0251030.d

Date : 30-OCT-2008 16:58

Client ID:

Instrument: nt6.i

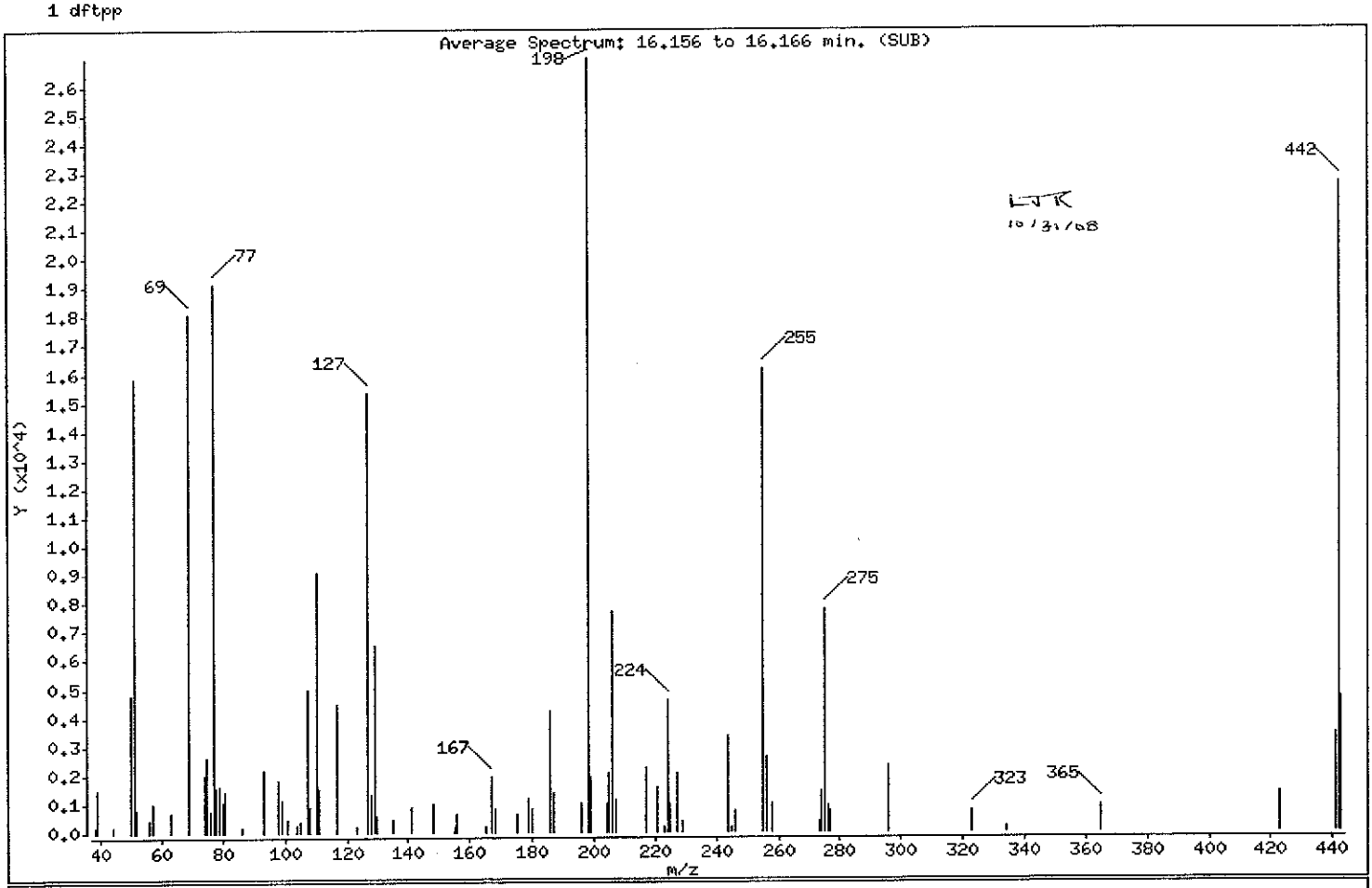
Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	58.69
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	67.03
70	Less than 2.00% of mass 69	0.00 (0.00)
127	25.00 - 75.00% of mass 198	56.91
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.14
275	10.00 - 30.00% of mass 198	28.91
365	Greater than 0.75% of mass 198	3.48
441	Present, but less than mass 443	12.62
442	40.00 - 110.00% of mass 198	83.82
443	15.00 - 24.00% of mass 442	17.25 (20.58)

Data File: /chem1/nt6.i/20081030.b/tune.b/0251030.d

Date : 30-OCT-2008 16:58

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: 0251030.d

Spectrum: Average Spectrum: 16.156 to 16.166 min. (SUB)

Location of Maximum: 198.00

Number of points: 81

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	170	99.00	1127	168.00	791	245.00	167
39.00	1480	101.00	424	175.00	634	246.00	754
44.00	166	104.00	218	179.00	1162	255.00	16178
50.00	4810	105.00	358	180.00	788	256.00	2582
51.00	15836	107.00	4950	186.00	4203	258.00	977
52.00	820	108.00	886	187.00	1358	273.00	403
56.00	429	110.00	9047	196.00	982	274.00	1449
57.00	985	111.00	1470	198.00	26976	275.00	7800
63.00	690	117.00	4464	199.00	1926	276.00	936
69.00	18080	123.00	171	204.00	1004	277.00	738
74.00	1982	127.00	15354	205.00	2040	296.00	2279
75.00	2598	128.00	1280	206.00	7696	323.00	721
76.00	739	129.00	6539	207.00	1107	334.00	215
77.00	19152	130.00	570	217.00	2260	365.00	939
78.00	1561	135.00	437	221.00	1544	423.00	1358
79.00	1628	141.00	874	223.00	175	441.00	3404
80.00	1057	148.00	1019	224.00	4620	442.00	22616
81.00	1436	155.00	187	225.00	983	443.00	4655
86.00	179	156.00	650	227.00	2074		
93.00	2185	165.00	178	229.00	358		
98.00	1827	167.00	1934	244.00	3359		

Data File: /chem1/nt6.i/20081030.b/tune.b/0251030.d

Date : 30-OCT-2008 16:58

Client ID:

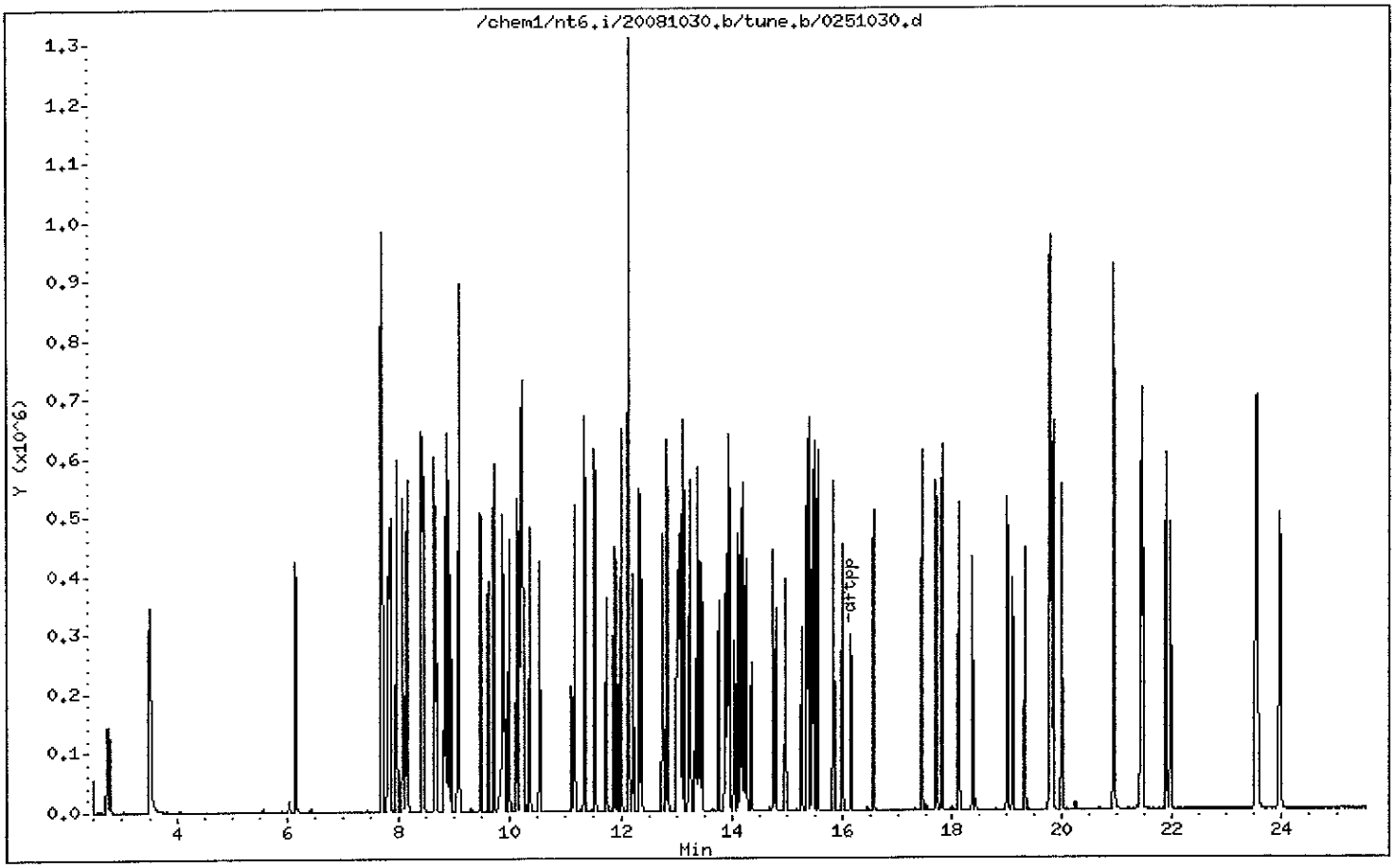
Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32



Data File: /chem1/nt6.i/20081114.b/tune.b/cc1114.d

Date : 14-NOV-2008 11:04

Client ID:

Instrument: nt6.i

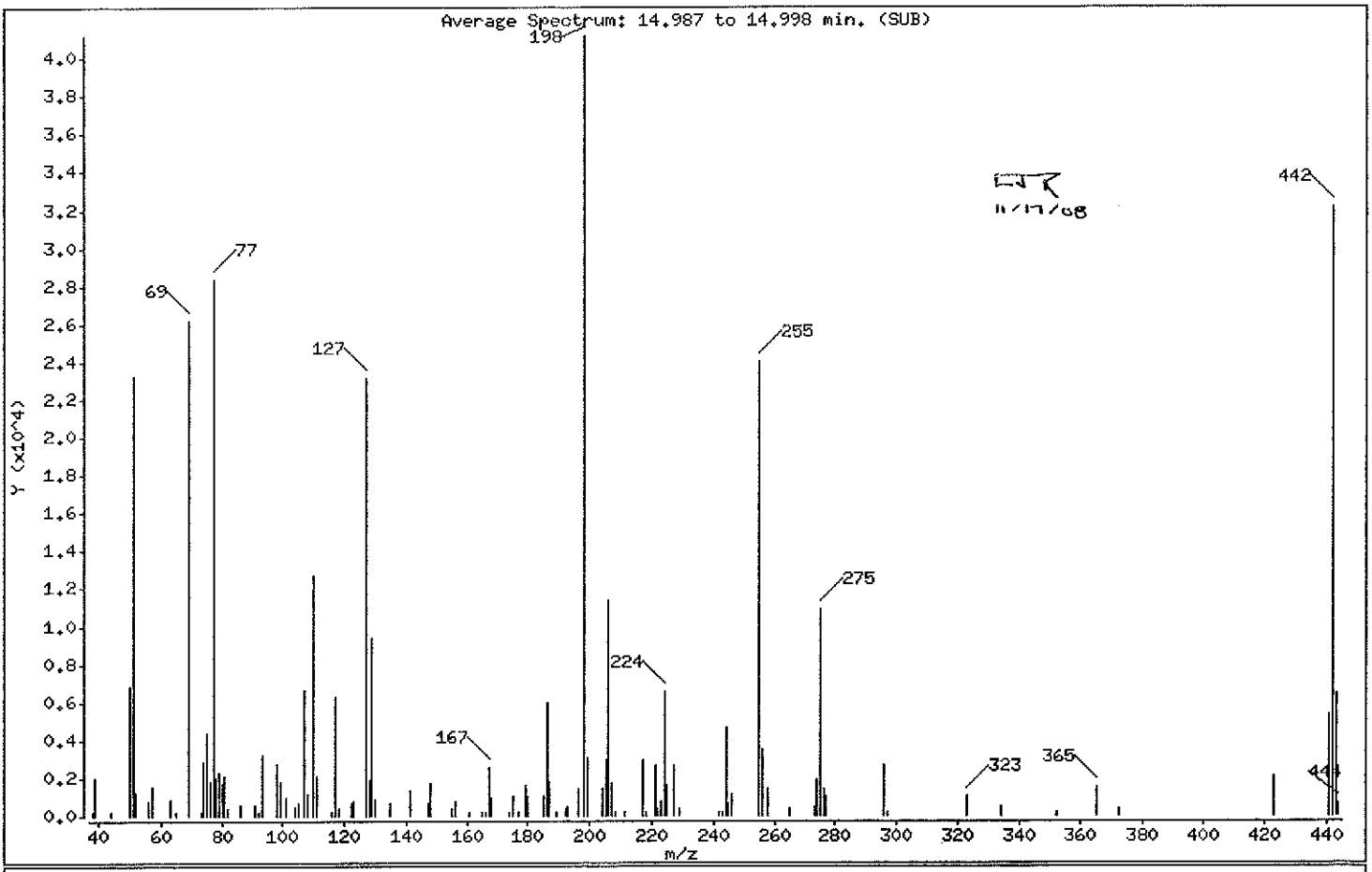
Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	56.43
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	63.49
70	Less than 2.00% of mass 69	0.00 (0.00)
127	25.00 - 75.00% of mass 198	56.32
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.28
275	10.00 - 30.00% of mass 198	26.38
365	Greater than 0.75% of mass 198	3.57
441	Present, but less than mass 443	13.01
442	40.00 - 110.00% of mass 198	78.20
443	15.00 - 24.00% of mass 442	15.73 (20.12)

Data File: /chem1/nt6.i/20081114.b/tune.b/cc1114.d

Date : 14-NOV-2008 11:04

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: cc1114.d

Spectrum: Average Spectrum: 14.987 to 14.998 min. (SUB)

Location of Maximum: 198.00

Number of points: 109

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	212	104.00	449	177.00	171	243.00	172
39.00	2005	105.00	673	179.00	1572	244.00	4616
44.00	201	107.00	6643	180.00	1006	245.00	698
50.00	6784	108.00	1123	185.00	1022	246.00	1096
51.00	23224	110.00	12717	186.00	5955	255.00	24024
52.00	1271	111.00	2066	187.00	1826	256.00	3510
56.00	767	116.00	173	189.00	179	258.00	1421
57.00	1562	117.00	6244	192.00	412	265.00	389
63.00	823	118.00	392	193.00	479	273.00	493
65.00	209	122.00	632	196.00	1454	274.00	1916
69.00	26128	123.00	779	198.00	41152	275.00	10857
73.00	168	127.00	23176	199.00	2996	276.00	1454
74.00	2850	128.00	1923	204.00	1431	277.00	1007
75.00	4356	129.00	9350	205.00	2941	296.00	2691
76.00	1796	130.00	859	206.00	11393	297.00	191
77.00	28320	135.00	662	207.00	1728	323.00	1070
78.00	1952	141.00	1293	208.00	205	334.00	497
79.00	2283	147.00	626	211.00	217	352.00	216
80.00	1679	148.00	1663	217.00	2894	365.00	1470
81.00	2080	155.00	406	218.00	190	372.00	400
82.00	371	156.00	798	221.00	2691	423.00	2076
86.00	523	161.00	211	222.00	350	441.00	5354
91.00	556	165.00	188	223.00	714	442.00	32184
92.00	180	166.00	202	224.00	6518	443.00	6476
93.00	3237	167.00	2525	225.00	1573	444.00	658
98.00	2748	168.00	929	227.00	2639		
99.00	1805	174.00	185	229.00	390		
101.00	943	175.00	1020	242.00	181		

Data File: /chem1/nt6.i/20081114.b/tune.b/cc1114.d

Date : 14-NOV-2008 11:04

Client ID:

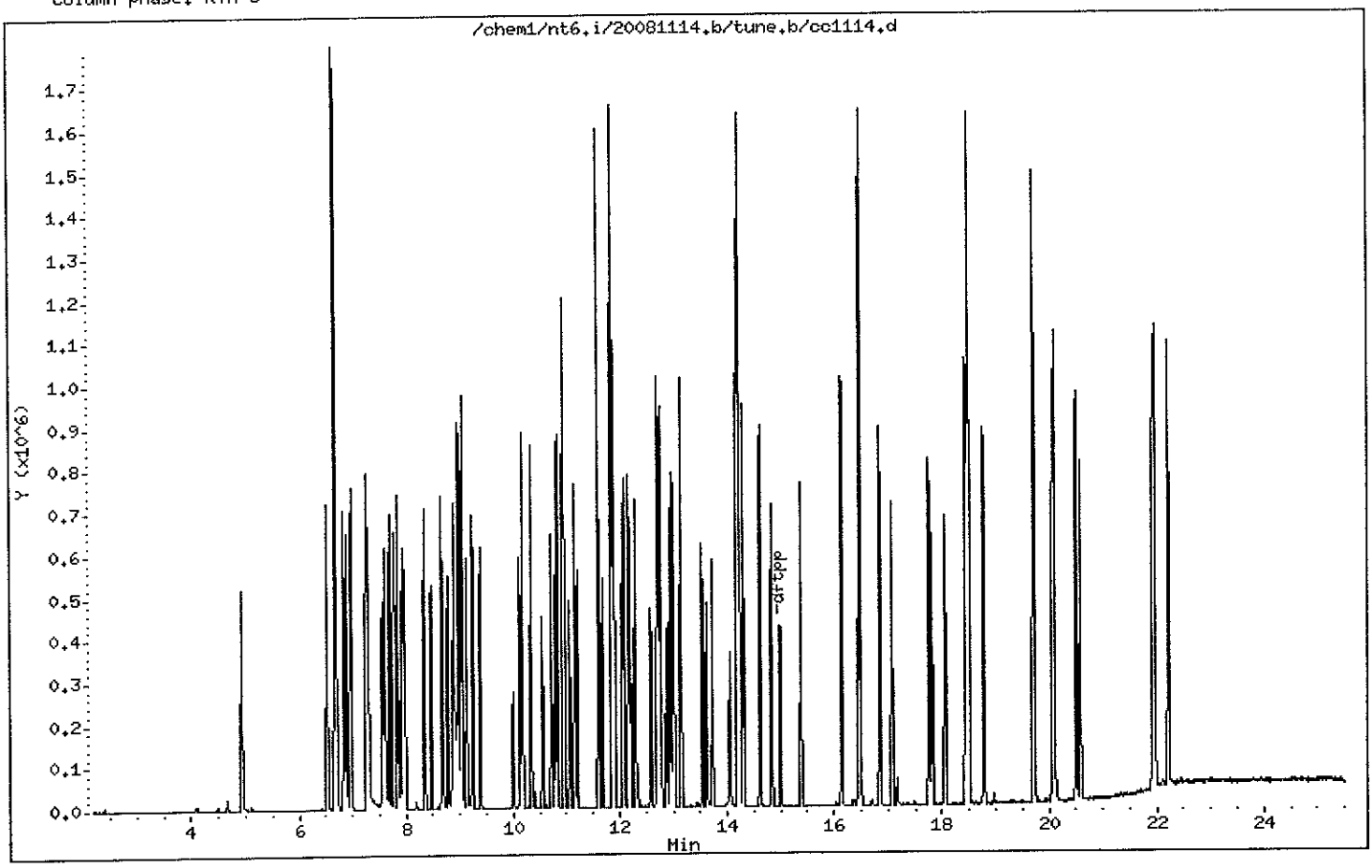
Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PNAs by SW8270D GC/MS

Sample ID: MB-111008
METHOD BLANK

Lab Sample ID: MB-111008
LIMS ID: 08-29555
Matrix: Sediment
Data Release Authorized:
Reported: 11/17/08

QC Report No: NX36-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 11/10/08
Date Analyzed: 11/14/08 19:32
Instrument/Analyst: NT6/LJR
GPC Cleanup: No
Alumina: No
Silica Gel: No

Sample Amount: 25.0 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
90-12-0	1-Methylnaphthalene	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
86-73-7	Fluorene	20	< 20 U
85-01-8	Phenanthrene	20	< 20 U
120-12-7	Anthracene	20	< 20 U
206-44-0	Fluoranthene	20	< 20 U
129-00-0	Pyrene	20	< 20 U
56-55-3	Benzo(a)anthracene	20	< 20 U
218-01-9	Chrysene	20	< 20 U
205-99-2	Benzo(b)fluoranthene	20	< 20 U
207-08-9	Benzo(k)fluoranthene	20	< 20 U
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	75.6%
2-Fluorobiphenyl	58.8%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20081114.b/nx36mb.d
Lab Smp Id: NX36MBS1 Client Smp ID: NX36MBS1
Inj Date : 14-NOV-2008 19:32
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : NX36MBS1
Misc Info : 08-29555
Comment : 1ul Injection
Method : /chem1/nt6.i/20081114.b/SW846.m
Meth Date : 17-Nov-2008 10:39 jeff Quant Type: ISTD
Cal Date : 10-NOV-2008 14:59 Cal File: 0101110.d
Als bottle: 15 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
* 27 Naphthalene-d8	136	9.015	9.020	(1.000)	428503	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	141	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	10.826	10.837	(0.913)	236433	14.7437	294.9
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	11.852	11.857	(1.000)	233438	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.192	14.197	(1.000)	353136	20.0000	
60 Phenanthrene	178	Compound Not Detected.					
61 Anthracene	178	Compound Not Detected.					
64 Fluoranthene	202	Compound Not Detected.					
65 Pyrene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.847	16.852	(0.913)	341337	18.9372	378.7
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	18.455	18.465	(1.000)	433571	20.0000	
	71 Chrysene	228	Compound Not Detected.					
	74 Benzo(b)fluoranthene	252	Compound Not Detected.					
	75 Benzo(k)fluoranthene	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	20.581	20.586	(1.000)	403423	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Data File: /chem1/nt6.i/20081114.b/nx36mb.d
Report Date: 17-Nov-2008 13:33

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: nx36mb.d
Lab Smp Id: NX36MBS1
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20081114.b/SW846.m
Misc Info: 08-29555

Calibration Date: 14-NOV-2008
Calibration Time: 11:04
Client Smp ID: NX36MBS1
Level: LOW
Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	464989	232494	929978	428503	-7.85
42 Acenaphthene-d10	260727	130364	521454	233438	-10.47
59 Phenanthrene-d10	386739	193370	773478	353136	-8.69
69 Chrysene-d12	448578	224289	897156	433571	-3.35
77 Perylene-d12	467835	233918	935670	403423	-13.77

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.02	8.52	9.52	9.02	-0.06
42 Acenaphthene-d10	11.86	11.36	12.36	11.85	-0.04
59 Phenanthrene-d10	14.20	13.70	14.70	14.19	-0.04
69 Chrysene-d12	18.47	17.97	18.97	18.45	-0.06
77 Perylene-d12	20.59	20.09	21.09	20.58	-0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt6.i/20081114.b/nx36mb.d
Report Date: 17-Nov-2008 13:33

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: NX36MBS1
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pna.sub
Method File: /chem1/nt6.i/20081114.b/SW846.m
Misc Info: 08-29555

Client SDG: NX36
Fraction: SV
Client Smp ID: NX36MBS1
Operator: LJR/VTS
SampleType: BLANK
Quant Type: ISTD

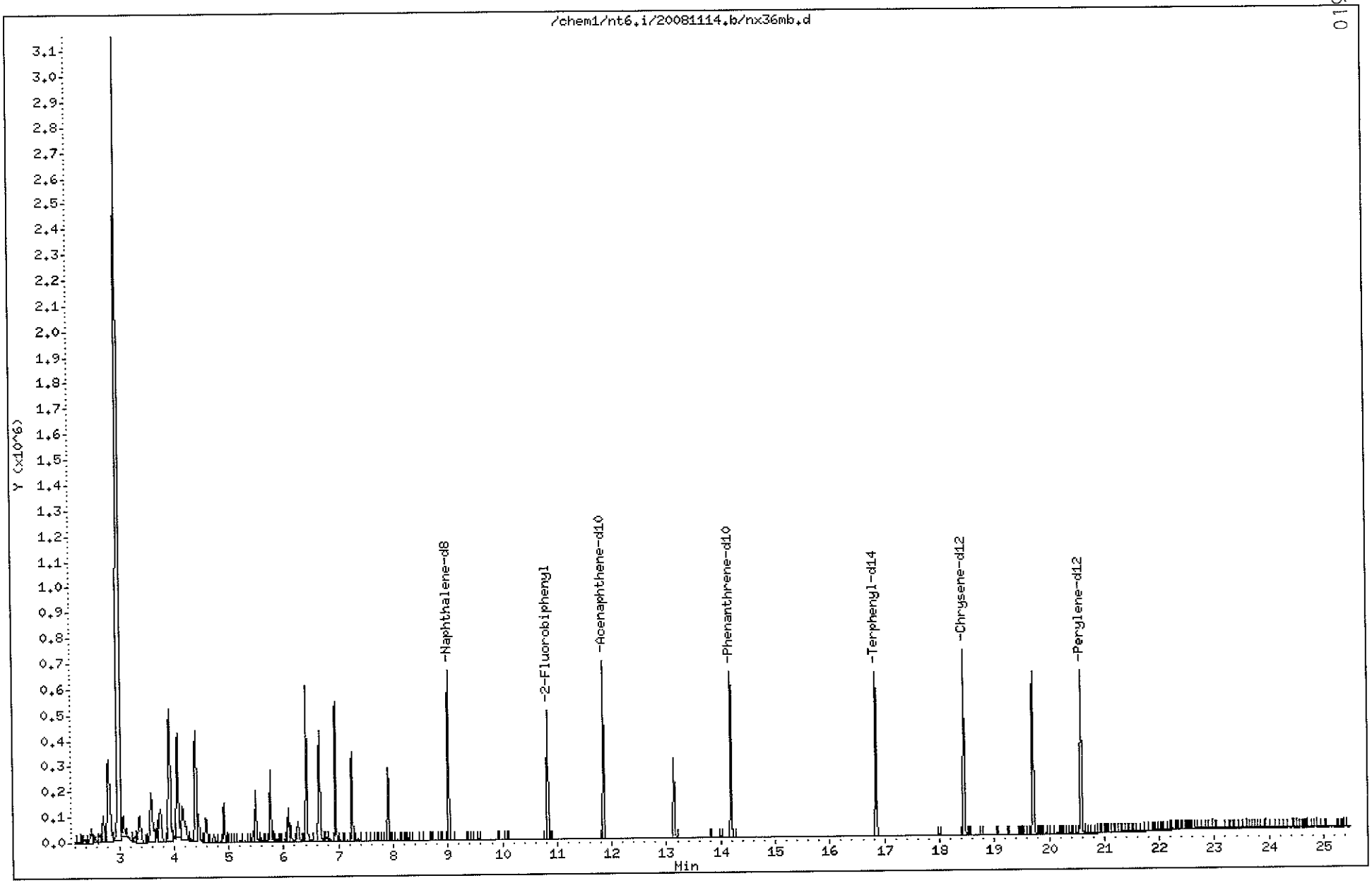
SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	500.0	294.9	58.97	30-160
$ 66 Terphenyl-d14	500.0	378.7	75.75	30-123

Data File: /chem1/nt6.i/20081114.b/nx36mb.d
Date : 14-NOV-2008 19:32
Client ID: NX36MBS1
Sample Info: NX36MBS1
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i

Operator: LJR/VTS
Column diameter: 0.32

0195



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PNAs by SW8270D GC/MS

Sample ID: EB-SE07-SE-A-081030
MATRIX SPIKE

Lab Sample ID: NX36B
LIMS ID: 08-29555
Matrix: Sediment
Data Release Authorized:
Reported: 11/17/08

QC Report No: NX36-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/30/08
Date Received: 10/30/08

Date Extracted: 11/10/08
Date Analyzed: 11/14/08 22:21
Instrument/Analyst: NT6/LJR
GPC Cleanup: No
Alumina: No
Silica Gel: No

Sample Amount: 26.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 24.9%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	19	---
91-57-6	2-Methylnaphthalene	19	---
90-12-0	1-Methylnaphthalene	19	---
208-96-8	Acenaphthylene	19	---
83-32-9	Acenaphthene	19	---
86-73-7	Fluorene	19	---
85-01-8	Phenanthrene	19	---
120-12-7	Anthracene	19	---
206-44-0	Fluoranthene	19	---
129-00-0	Pyrene	19	---
56-55-3	Benzo(a)anthracene	19	---
218-01-9	Chrysene	19	---
205-99-2	Benzo(b)fluoranthene	19	---
207-08-9	Benzo(k)fluoranthene	19	---
50-32-8	Benzo(a)pyrene	19	---
193-39-5	Indeno(1,2,3-cd)pyrene	19	---
53-70-3	Dibenz(a,h)anthracene	19	---
191-24-2	Benzo(g,h,i)perylene	19	---
132-64-9	Dibenzofuran	19	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	74.4%
2-Fluorobiphenyl	62.0%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20081114.b/nx36bms.d
Lab Smp Id: NX36BMS
Client Smp ID: EB-SE07-SE-A-08 MS
Inj Date : 14-NOV-2008 22:21
Operator : LJR/VTS
Inst ID: nt6.i
Smp Info : NX36BMS
Misc Info : 08-29555
Comment : 1ul Injection
Method : /chem1/nt6.i/20081114.b/SW846.m
Meth Date : 17-Nov-2008 10:38 jeff
Quant Type: ISTD
Cal Date : 10-NOV-2008 14:59
Cal File: 0101110.d
Als bottle: 20
QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: pna.sub
Target Version: 3.50

LJR 11/17/08

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	34.80000	Weight of sample extracted (g)
M	24.90000	% Moisture

Cpnd Variable — Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	27 Naphthalene-d8	136	9.015	9.020	(1.000)	401776	20.0000	
	28 Naphthalene	128	9.042	9.052	(1.003)	303651	13.9957	267.8
	32 2-Methylnaphthalene	141	10.169	10.174	(1.128)	222947	18.3582	351.2
	105 1-methylnaphthalene	141	10.335	10.340	(1.146)	167929	15.5324	297.2
$	36 2-Fluorobiphenyl	172	10.826	10.837	(0.913)	229450	15.4835	296.2
	40 Acenaphthylene	152	11.596	11.601	(0.978)	358685	17.5484	335.7
*	42 Acenaphthene-d10	164	11.852	11.857	(1.000)	215720	20.0000	
	44 Acenaphthene	153	11.900	11.905	(1.004)	208711	16.8430	322.2
	46 Dibenzofuran	168	12.162	12.172	(1.026)	308894	16.5457	316.5
	49 Fluorene	166	12.712	12.717	(1.073)	265656	18.7815	359.3
*	59 Phenanthrene-d10	188	14.192	14.197	(1.000)	357040	20.0000	
	60 Phenanthrene	178	14.229	14.234	(1.003)	438181	19.8050	378.9
	61 Anthracene	178	14.299	14.304	(1.008)	447405	19.4191	371.5
	64 Fluoranthene	202	16.142	16.147	(1.137)	646492	26.9212	515.0
	65 Pyrene	202	16.484	16.483	(0.893)	695279	24.1302	461.6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.847	16.852	(0.913)	368383	18.6208	356.2
	68 Benzo(a)anthracene	228	18.439	18.438	(0.999)	642506	21.5645	412.6
*	69 Chrysene-d12	240	18.460	18.465	(1.000)	475878	20.0000	
	71 Chrysene	228	18.503	18.503	(1.002)	691860	23.8810	456.9
	74 Benzo(b)fluoranthene	252	20.084	20.073	(0.975)	698265	28.0097	535.9
	75 Benzo(k)fluoranthene	252	20.111	20.111	(0.977)	640687	25.5561	488.9
	76 Benzo(a)pyrene	252	20.512	20.511	(0.996)	505032	22.5421	431.3
*	77 Perylene-d12	264	20.592	20.586	(1.000)	389369	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	21.933	21.932	(1.065)	313343	10.9295	209.1
	79 Dibenzo(a,h)anthracene	278	21.965	21.964	(1.067)	264613	10.9931	210.3
	80 Benzo(g,h,i)perylene	276	22.221	22.226	(1.079)	239953	9.76020	186.7

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: nx36bms.d
Lab Smp Id: NX36BMS
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20081114.b/SW846.m
Misc Info: 08-29555

Calibration Date: 14-NOV-2008
Calibration Time: 11:04
Client Smp ID: EB-SE07-SE-A-08
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	464989	232494	929978	401776	-13.59
42 Acenaphthene-d10	260727	130364	521454	215720	-17.26
59 Phenanthrene-d10	386739	193370	773478	357040	-7.68
69 Chrysene-d12	448578	224289	897156	475878	6.09
77 Perylene-d12	467835	233918	935670	389369	-16.77

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.02	8.52	9.52	9.02	-0.05
42 Acenaphthene-d10	11.86	11.36	12.36	11.85	-0.04
59 Phenanthrene-d10	14.20	13.70	14.70	14.19	-0.03
69 Chrysene-d12	18.47	17.97	18.97	18.46	-0.03
77 Perylene-d12	20.59	20.09	21.09	20.59	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt6.i/20081114.b/nx36bms.d
Report Date: 17-Nov-2008 10:39

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: NX36BMS
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pna.sub
Method File: /chem1/nt6.i/20081114.b/SW846.m
Misc Info: 08-29555

Client SDG: NX36
Fraction: SV
Client Smp ID: EB-SE07-SE-A-08 MS
Operator: LJR/VTS
SampleType: MS
Quant Type: ISTD

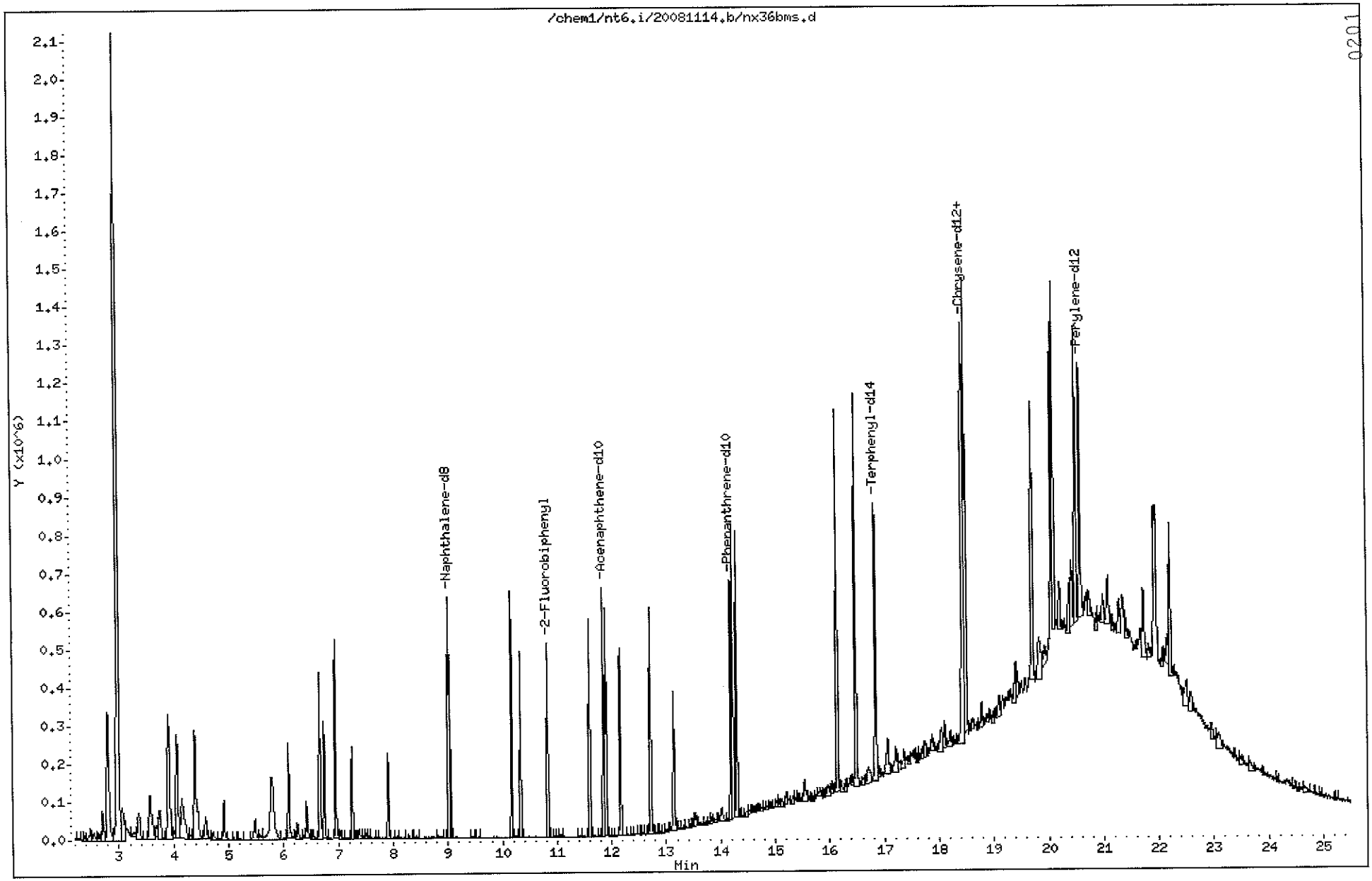
SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
28 Naphthalene	478.3	267.8	55.98	50-103
32 2-Methylnaphthalen	478.3	351.2	73.43	30-160
40 Acenaphthylene	478.3	335.7	70.19	30-160
44 Acenaphthene	478.3	322.2	67.37	47-110
46 Dibenzofuran	478.3	316.5	66.18	30-160
49 Fluorene	478.3	359.3	75.13	30-160
60 Phenanthrene	478.3	378.9	79.22	30-160
61 Anthracene	478.3	371.5	77.68	30-160
64 Fluoranthene	478.3	515.0	OK 107.68	57-121
65 Pyrene	478.3	461.6	96.52	30-160
68 Benzo(a)anthracene	478.3	412.6	86.26	55-103
71 Chrysene	478.3	456.9	95.52	30-160
74 Benzo(b)fluoranthe	478.3	535.9	112.04	30-160
75 Benzo(k)fluoranthe	478.3	488.9	102.22	30-160
76 Benzo(a)pyrene	478.3	431.3	90.17	30-160
78 Indeno(1,2,3-cd)py	478.3	209.1	43.72	30-160
79 Dibenzo(a,h)anthra	478.3	210.3	43.97	30-160
80 Benzo(g,h,i)peryle	478.3	186.7	39.04	30-160

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	478.3	296.2	61.93	30-160
$ 66 Terphenyl-d14	478.3	356.2	74.48	30-123

Data File: /chem1/nt6.i/20081114.b/nx36bms.d
Date : 14-NOV-2008 22:21
Client ID: EB-SE07-SE-A-08 MS
Sample Info: NX36BMS
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i

Operator: LJR/VTS
Column diameter: 0.32



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PNAs by SW8270D GC/MS
Page 1 of 1

Sample ID: EB-SE07-SE-A-081030
MATRIX SPIKE DUPLICATE

Lab Sample ID: NX36B
LIMS ID: 08-29555
Matrix: Sediment
Data Release Authorized:
Reported: 11/17/08

QC Report No: NX36-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/30/08
Date Received: 10/30/08

Date Extracted: 11/10/08
Date Analyzed: 11/14/08 22:54
Instrument/Analyst: NT6/LJR
GPC Cleanup: No
Alumina: No
Silica Gel: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 24.9%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	20	---
91-57-6	2-Methylnaphthalene	20	---
90-12-0	1-Methylnaphthalene	20	---
208-96-8	Acenaphthylene	20	---
83-32-9	Acenaphthene	20	---
86-73-7	Fluorene	20	---
85-01-8	Phenanthrene	20	---
120-12-7	Anthracene	20	---
206-44-0	Fluoranthene	20	---
129-00-0	Pyrene	20	---
56-55-3	Benzo(a)anthracene	20	---
218-01-9	Chrysene	20	---
205-99-2	Benzo(b)fluoranthene	20	---
207-08-9	Benzo(k)fluoranthene	20	---
50-32-8	Benzo(a)pyrene	20	---
193-39-5	Indeno(1,2,3-cd)pyrene	20	---
53-70-3	Dibenz(a,h)anthracene	20	---
191-24-2	Benzo(g,h,i)perylene	20	---
132-64-9	Dibenzofuran	20	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	77.2%
2-Fluorobiphenyl	62.4%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20081114.b/nx36bmd.d
Lab Smp Id: NX36BMSD
Client Smp ID: EB-SE07-SE-A-08 MSD
Inj Date : 14-NOV-2008 22:54
Operator : LJR/VTS
Inst ID: nt6.i
Smp Info : NX36BMSD
Misc Info : 08-29555
Comment : 1ul Injection
Method : /chem1/nt6.i/20081114.b/SW846.m
Meth Date : 17-Nov-2008 10:38 jeff
Quant Type: ISTD
Cal Date : 10-NOV-2008 14:59
Cal File: 0101110.d
Als bottle: 21
QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: pna.sub
Target Version: 3.50

LJR 11/17/08

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	34.10000	Weight of sample extracted (g)
M	24.90000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
* 27 Naphthalene-d8	136	9.010	9.020	(1.000)	447789	20.0000	
28 Naphthalene	128	9.042	9.052	(1.004)	384295	15.8926	310.3
32 2-Methylnaphthalene	141	10.170	10.174	(1.129)	271633	20.0688	391.8
105 1-methylnaphthalene	141	10.335	10.340	(1.147)	207354	17.2082	336.0
$ 36 2-Fluorobiphenyl	172	10.827	10.837	(0.913)	274061	15.5683	304.0
40 Acenaphthylene	152	11.601	11.601	(0.979)	429043	17.6702	345.0
* 42 Acenaphthene-d10	164	11.852	11.857	(1.000)	256257	20.0000	
44 Acenaphthene	153	11.900	11.905	(1.004)	251821	17.1073	334.0
46 Dibenzofuran	168	12.162	12.172	(1.026)	373876	16.8584	329.1
49 Fluorene	166	12.712	12.717	(1.073)	323955	19.2801	376.4
* 59 Phenanthrene-d10	188	14.192	14.197	(1.000)	411958	20.0000	
60 Phenanthrene	178	14.230	14.234	(1.003)	506293	19.8329	387.2
61 Anthracene	178	14.299	14.304	(1.008)	518204	19.4936	380.6
64 Fluoranthene	202	16.142	16.147	(1.137)	667607	24.0944	470.4
65 Pyrene	202	16.484	16.483	(0.893)	697863	24.3031	474.5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.847	16.852	(0.913)	380262	19.2873	376.6
	68 Benzo(a)anthracene	228	18.439	18.438	(0.999)	626670	21.1052	412.1
*	69 Chrysene-d12	240	18.461	18.465	(1.000)	474248	20.0000	
	71 Chrysene	228	18.503	18.503	(1.002)	667335	23.1137	451.3
	74 Benzo(b)fluoranthene	252	20.079	20.073	(0.975)	615771	24.2573	473.6
	75 Benzo(k)fluoranthene	252	20.111	20.111	(0.977)	722439	28.2999	552.5(M)
	76 Benzo(a)pyrene	252	20.512	20.511	(0.996)	506637	22.2079	433.6
*	77 Perylene-d12	264	20.592	20.586	(1.000)	396484	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	21.933	21.932	(1.065)	352624	12.0790	235.8
	79 Dibenzo(a,h)anthracene	278	21.965	21.964	(1.067)	294000	11.9948	234.2
	80 Benzo(g,h,i)perylene	276	22.221	22.226	(1.079)	273676	10.9321	213.4

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: nx36bmd.d
Lab Smp Id: NX36BMSD
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20081114.b/SW846.m
Misc Info: 08-29555

Calibration Date: 14-NOV-2008
Calibration Time: 11:04
Client Smp ID: EB-SE07-SE-A-08
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	464989	232494	929978	447789	-3.70
42 Acenaphthene-d10	260727	130364	521454	256257	-1.71
59 Phenanthrene-d10	386739	193370	773478	411958	6.52
69 Chrysene-d12	448578	224289	897156	474248	5.72
77 Perylene-d12	467835	233918	935670	396484	-15.25

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.02	8.52	9.52	9.01	-0.11
42 Acenaphthene-d10	11.86	11.36	12.36	11.85	-0.04
59 Phenanthrene-d10	14.20	13.70	14.70	14.19	-0.03
69 Chrysene-d12	18.47	17.97	18.97	18.46	-0.03
77 Perylene-d12	20.59	20.09	21.09	20.59	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: NX36BMSD
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pna.sub
Method File: /chem1/nt6.i/20081114.b/SW846.m
Misc Info: 08-29555

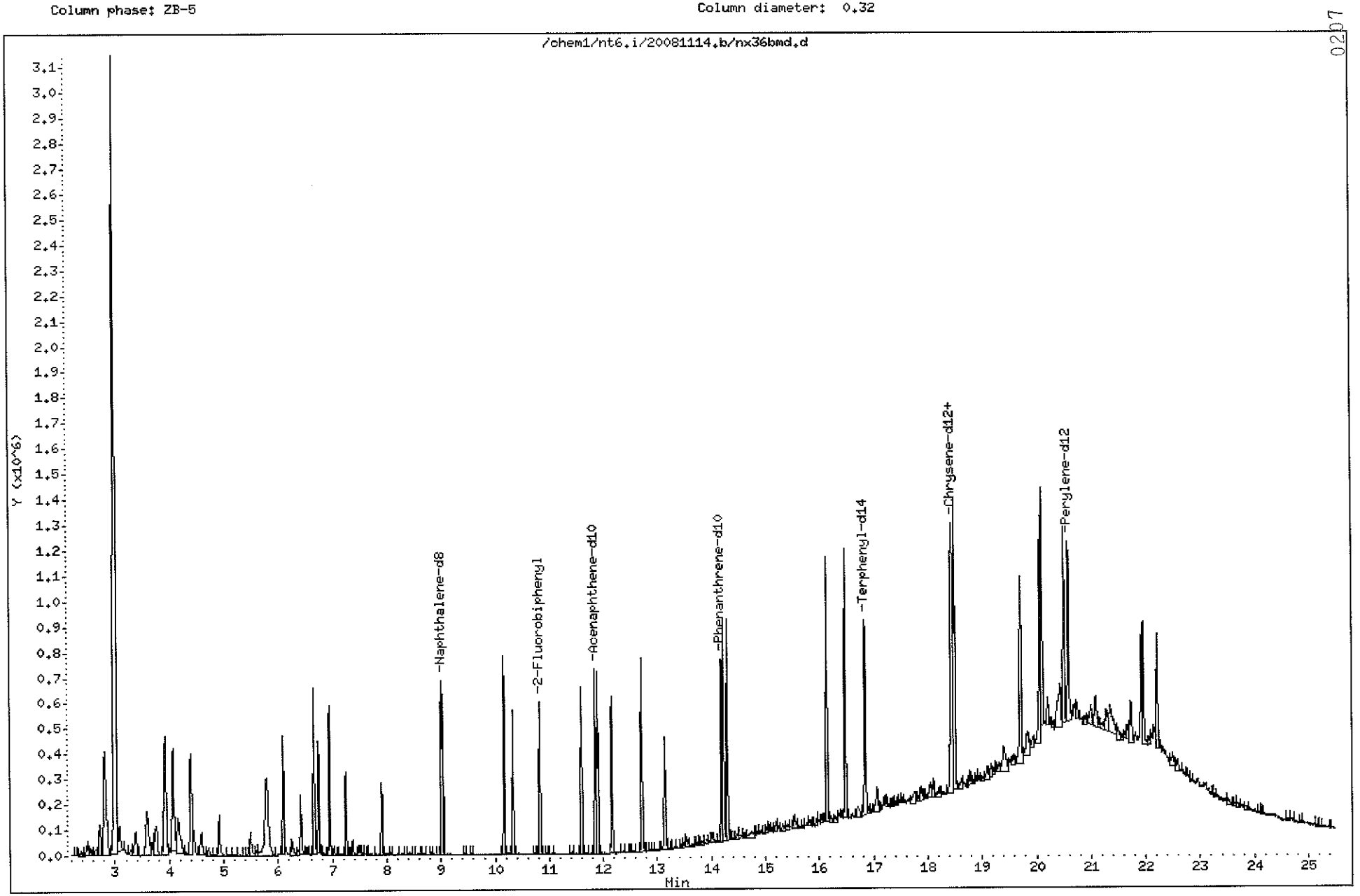
Client SDG: NX36
Fraction: SV
Client Smp ID: EB-SE07-SE-A-08 MSD
Operator: LJR/VTS
SampleType: MSD
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
28 Naphthalene	488.1	310.3	63.57	50-103
32 2-Methylnaphthalen	488.1	391.8	80.28	30-160
40 Acenaphthylene	488.1	345.0	70.68	30-160
44 Acenaphthene	488.1	334.0	68.43	47-110
46 Dibenzofuran	488.1	329.1	67.43	30-160
49 Fluorene	488.1	376.4	77.12	30-160
60 Phenanthrene	488.1	387.2	79.33	30-160
61 Anthracene	488.1	380.6	77.97	30-160
64 Fluoranthene	488.1	470.4	96.38	57-121
65 Pyrene	488.1	474.5	97.21	30-160
68 Benzo(a)anthracene	488.1	412.1	84.42	55-103
71 Chrysene	488.1	451.3	92.45	30-160
74 Benzo(b)fluoranthe	488.1	473.6	97.03	30-160
75 Benzo(k)fluoranthe	488.1	552.5	113.20	30-160
76 Benzo(a)pyrene	488.1	433.6	88.83	30-160
78 Indeno(1,2,3-cd)py	488.1	235.8	48.32	30-160
79 Dibenzo(a,h)anthra	488.1	234.2	47.98	30-160
80 Benzo(g,h,i)peryle	488.1	213.4	43.73	30-160

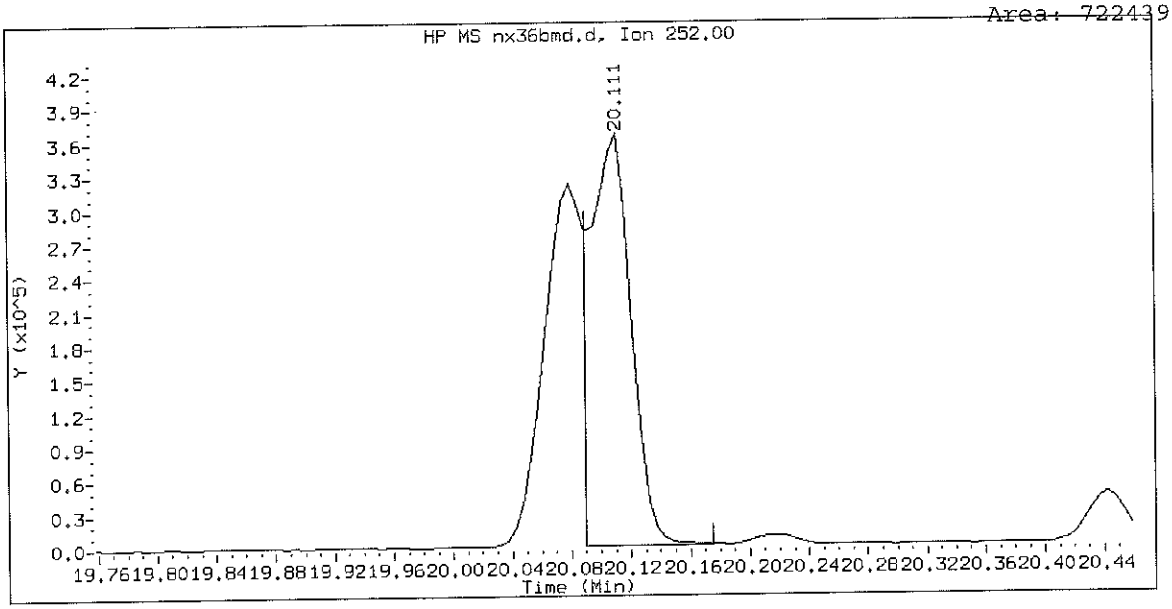
SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	488.1	304.0	62.27	30-160
$ 66 Terphenyl-d14	488.1	376.6	77.15	30-123

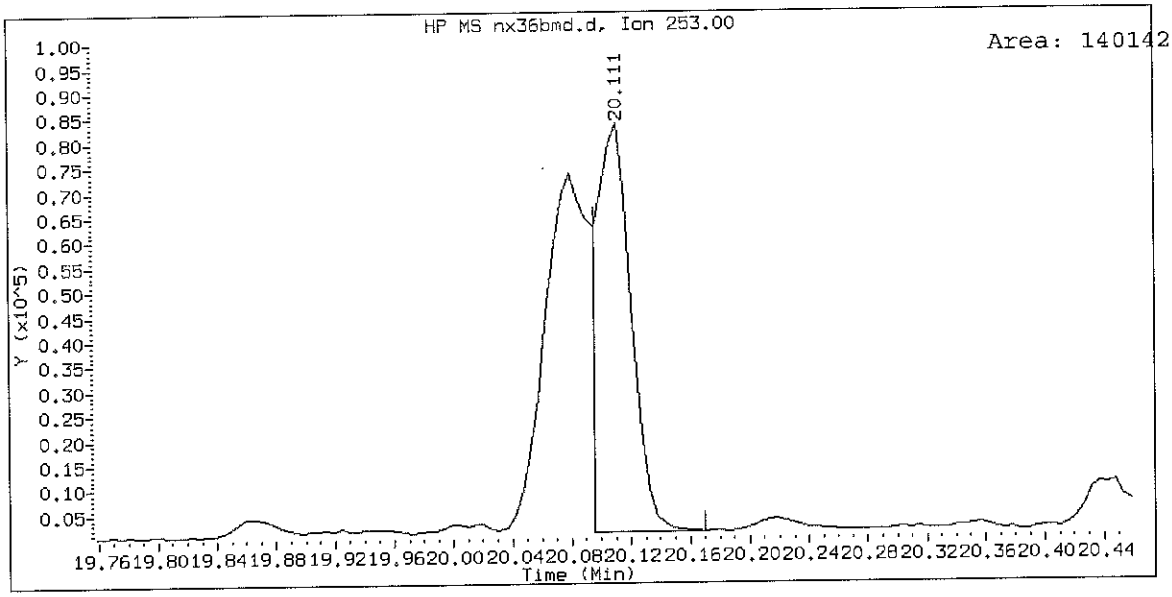
Data File: /chem1/nt6.i/20081114.b/nx36bmd.d
Date : 14-NOV-2008 22:54
Client ID: EB-SE07-SE-A-08 MSD
Sample Info: NX36BMSD
Volume Injected (uL): 1.0
Column phase: ZB-5

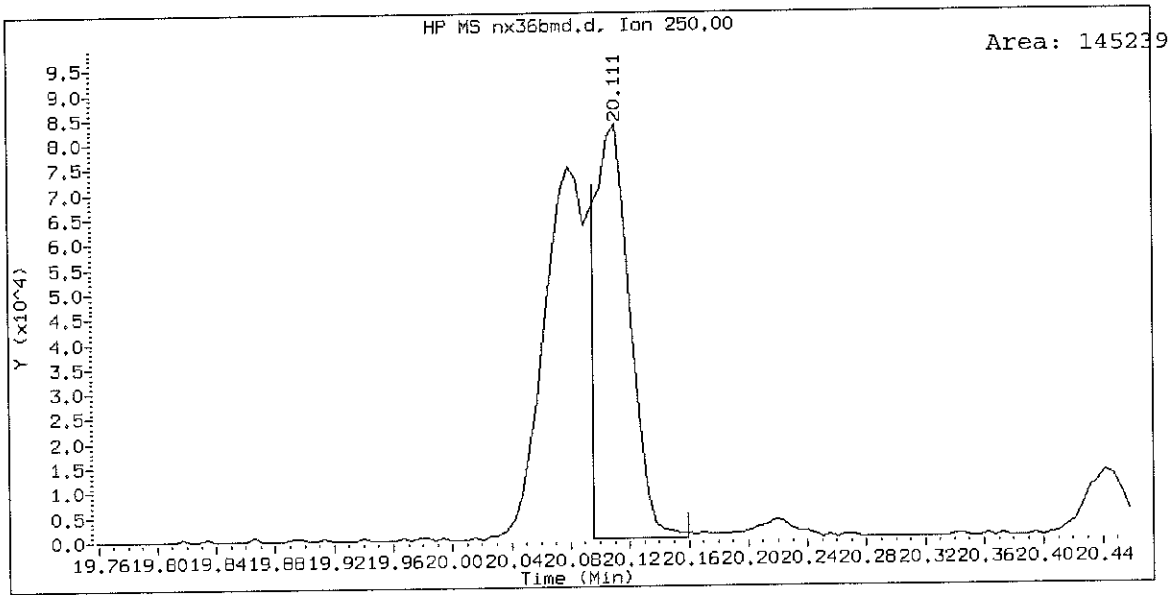
Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32



NX36BMSD, /chem1/nt6.i/20081114.b/nx36bmd.d
Benzo(k)fluoranthene Amount: 28.30







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20081114.b/nx36sb.d
Lab Smp Id: NX36LCSS1 Client Smp ID: NX36LCSS1
Inj Date : 14-NOV-2008 20:05
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : NX36LCSS1
Misc Info : 08-29555
Comment : 1ul Injection
Method : /chem1/nt6.i/20081114.b/SW846.m
Meth Date : 17-Nov-2008 10:38 jeff Quant Type: ISTD
Cal Date : 10-NOV-2008 14:59 Cal File: 0101110.d
Als bottle: 16 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna.sub
Target Version: 3.50

LJR 11/17/08

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	27 Naphthalene-d8	136	9.014	9.020	(1.000)	433760	20.0000	
	28 Naphthalene	128	9.041	9.052	(1.003)	369422	15.7717	315.4
	32 2-Methylnaphthalene	141	10.168	10.174	(1.128)	249103	18.9995	380.0
	105 1-methylnaphthalene	141	10.334	10.340	(1.146)	185677	15.9076	318.2
$	36 2-Fluorobiphenyl	172	10.830	10.837	(0.914)	237380	14.6128	292.3
	40 Acenaphthylene	152	11.594	11.601	(0.978)	363126	16.2066	324.1
*	42 Acenaphthene-d10	164	11.851	11.857	(1.000)	236473	20.0000	
	44 Acenaphthene	153	11.899	11.905	(1.004)	217940	16.0443	320.9
	46 Dibenzofuran	168	12.161	12.172	(1.026)	314426	15.3639	307.3
	49 Fluorene	166	12.711	12.717	(1.073)	265460	17.1206	342.4
*	59 Phenanthrene-d10	188	14.196	14.197	(1.000)	359550	20.0000	
	60 Phenanthrene	178	14.228	14.234	(1.002)	397296	17.8317	356.6
	61 Anthracene	178	14.297	14.304	(1.007)	407220	17.5515	351.0
	64 Fluoranthene	202	16.141	16.147	(1.137)	491391	20.3196	406.4
	65 Pyrene	202	16.482	16.483	(0.893)	504340	19.4092	388.2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.846	16.852	(0.913)	341735	19.1544	383.1
	68 Benzo(a)anthracene	228	18.432	18.438	(0.999)	529603	19.7104	394.2
*	69 Chrysene-d12	240	18.459	18.465	(1.000)	429154	20.0000	
	71 Chrysene	228	18.496	18.503	(1.002)	512194	19.6043	392.1
	74 Benzo(b)fluoranthene	252	20.067	20.073	(0.975)	535665	20.5779	411.6
	75 Benzo(k)fluoranthene	252	20.104	20.111	(0.977)	574043	21.9286	438.6
	76 Benzo(a)pyrene	252	20.500	20.511	(0.996)	465729	19.9080	398.2
*	77 Perylene-d12	264	20.585	20.586	(1.000)	406577	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	21.926	21.932	(1.065)	439448	14.6794	293.6
	79 Dibenzo(a,h)anthracene	278	21.958	21.964	(1.067)	389250	15.4866	309.7
	80 Benzo(g,h,i)perylene	276	22.215	22.226	(1.079)	341131	13.2884	265.8

Data File: /chem1/nt6.i/20081114.b/nx36sb.d
Report Date: 17-Nov-2008 10:39

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: nx36sb.d
Lab Smp Id: NX36LCSS1
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20081114.b/SW846.m
Misc Info: 08-29555

Calibration Date: 14-NOV-2008
Calibration Time: 11:04
Client Smp ID: NX36LCSS1
Level: LOW
Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	464989	232494	929978	433760	-6.72
42 Acenaphthene-d10	260727	130364	521454	236473	-9.30
59 Phenanthrene-d10	386739	193370	773478	359550	-7.03
69 Chrysene-d12	448578	224289	897156	429154	-4.33
77 Perylene-d12	467835	233918	935670	406577	-13.09

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.02	8.52	9.52	9.01	-0.07
42 Acenaphthene-d10	11.86	11.36	12.36	11.85	-0.05
59 Phenanthrene-d10	14.20	13.70	14.70	14.20	-0.01
69 Chrysene-d12	18.47	17.97	18.97	18.46	-0.03
77 Perylene-d12	20.59	20.09	21.09	20.59	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: NX36LCSS1
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pna.sub
Method File: /chem1/nt6.i/20081114.b/SW846.m
Misc Info: 08-29555

Client SDG: NX36
Fraction: SV
Client Smp ID: NX36LCSS1
Operator: LJR/VTS
SampleType: LCS
Quant Type: ISTD

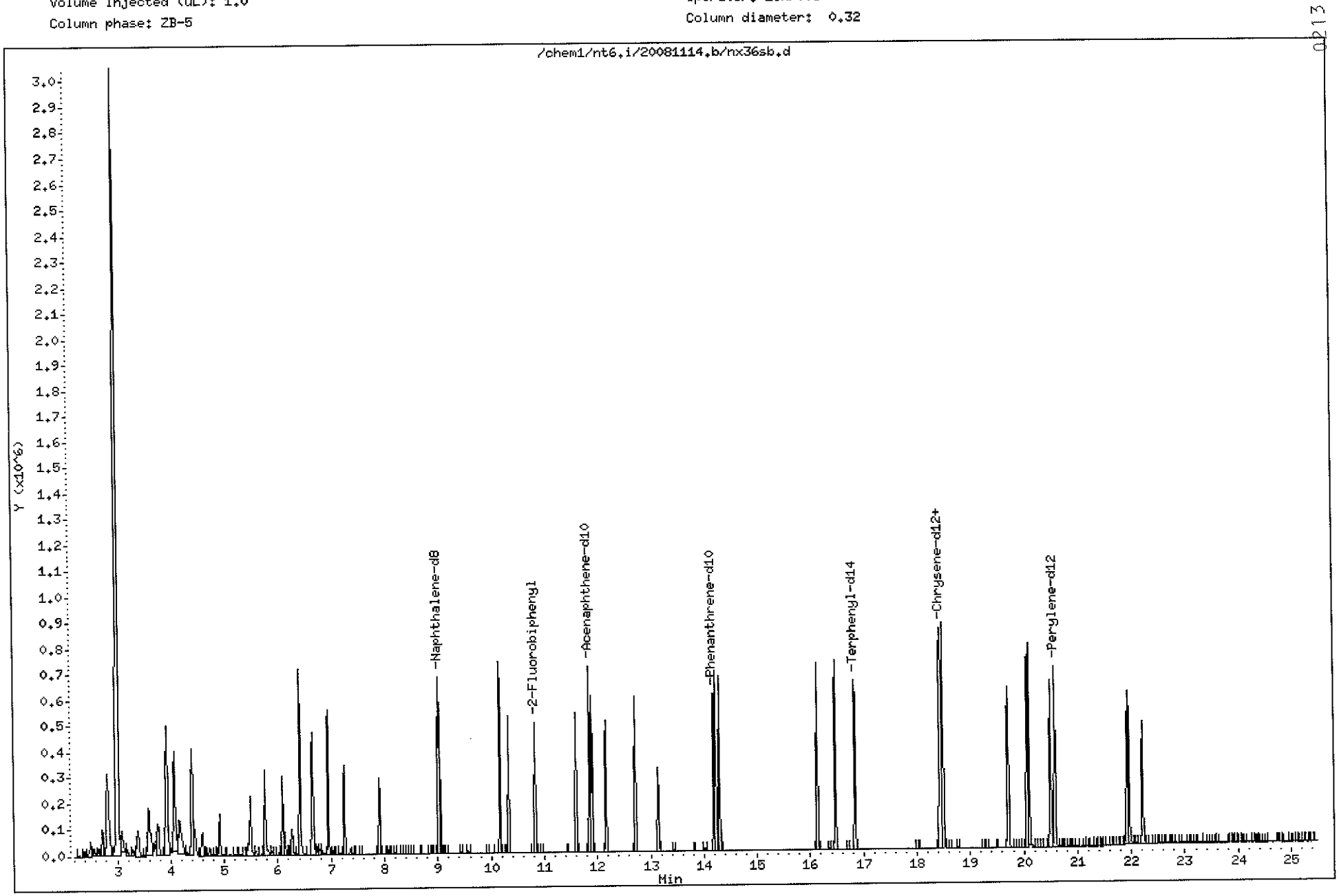
SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
28 Naphthalene	500.0	315.4	63.09	50-103
32 2-Methylnaphthalen	500.0	380.0	76.00	30-160
40 Acenaphthylene	500.0	324.1	64.83	30-160
44 Acenaphthene	500.0	320.9	64.18	47-110
46 Dibenzofuran	500.0	307.3	61.46	30-160
49 Fluorene	500.0	342.4	68.48	30-160
60 Phenanthrene	500.0	356.6	71.33	30-160
61 Anthracene	500.0	351.0	OK 70.21	30-160
64 Fluoranthene	500.0	406.4	81.28	57-121
65 Pyrene	500.0	388.2	77.64	30-160
68 Benzo(a)anthracene	500.0	394.2	78.84	55-103
71 Chrysene	500.0	392.1	78.42	30-160
74 Benzo(b)fluoranthe	500.0	411.6	82.31	30-160
75 Benzo(k)fluoranthe	500.0	438.6	87.71	30-160
76 Benzo(a)pyrene	500.0	398.2	79.63	30-160
78 Indeno(1,2,3-cd)py	500.0	293.6	58.72	30-160
79 Dibenzo(a,h)anthra	500.0	309.7	61.95	30-160
80 Benzo(g,h,i)peryle	500.0	265.8	53.15	30-160

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	500.0	292.3	58.45	30-160
$ 66 Terphenyl-d14	500.0	383.1	76.62	30-123

Data File: /chem1/nt6.i/20081114.b/nx36sb.d
Date : 14-NOV-2008 20:05
Client ID: NX36LCSS1
Sample Info: NX36LCSS1
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i

Operator: LJR/VTS
Column diameter: 0.32



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20081114.b/nx36sbd.d
Lab Smp Id: NX36LCSDS1 Client Smp ID: NX36LCSDS1
Inj Date : 14-NOV-2008 20:39
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : NX36LCSDS1
Misc Info : 08-29555
Comment : 1ul Injection
Method : /chem1/nt6.i/20081114.b/SW846.m
Meth Date : 17-Nov-2008 10:38 jeff Quant Type: ISTD
Cal Date : 10-NOV-2008 14:59 Cal File: 0101110.d
Als bottle: 17 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna.sub
Target Version: 3.50

LJR 11/17/08

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
* 27 Naphthalene-d8	136	9.015	9.020	(1.000)	430705	20.0000	
28 Naphthalene	128	9.041	9.052	(1.003)	342280	14.7166	294.3
32 2-Methylnaphthalene	141	10.169	10.174	(1.128)	231026	17.7457	354.9
105 1-methylnaphthalene	141	10.334	10.340	(1.146)	172665	14.8978	298.0
$ 36 2-Fluorobiphenyl	172	10.826	10.837	(0.913)	228454	14.1361	282.7
40 Acenaphthylene	152	11.595	11.601	(0.978)	338187	15.1716	303.4
* 42 Acenaphthene-d10	164	11.851	11.857	(1.000)	235256	20.0000	
44 Acenaphthene	153	11.899	11.905	(1.004)	206347	15.2694	305.4
46 Dibenzofuran	168	12.161	12.172	(1.026)	296073	14.5420	290.8
49 Fluorene	166	12.711	12.717	(1.073)	251134	16.2804	325.6
* 59 Phenanthrene-d10	188	14.191	14.197	(1.000)	359653	20.0000	
60 Phenanthrene	178	14.229	14.234	(1.003)	380585	17.0768	341.5
61 Anthracene	178	14.298	14.304	(1.008)	385871	16.6266	332.5
64 Fluoranthene	202	16.136	16.147	(1.137)	456099	18.8549	377.1
65 Pyrene	202	16.478	16.483	(0.893)	470993	18.2616	365.2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	16.846	16.852	(0.913)	321160	18.1360	362.7
	68 Benzo(a)anthracene	228	18.433	18.438	(0.999)	492446	18.4647	369.3
*	69 Chrysene-d12	240	18.460	18.465	(1.000)	425964	20.0000	
	71 Chrysene	228	18.497	18.503	(1.002)	471642	18.1874	363.7
	74 Benzo(b)fluoranthene	252	20.068	20.073	(0.975)	516144	20.4102	408.2
	75 Benzo(k)fluoranthene	252	20.100	20.111	(0.976)	508713	20.0036	400.1
	76 Benzo(a)pyrene	252	20.500	20.511	(0.996)	425114	18.7054	374.1
*	77 Perylene-d12	264	20.586	20.586	(1.000)	394979	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	21.921	21.932	(1.065)	378477	13.0139	260.3
	79 Dibenzo(a,h)anthracene	278	21.953	21.964	(1.066)	335024	13.7205	274.4
	80 Benzo(g,h,i)perylene	276	22.210	22.226	(1.079)	287280	11.5193	230.4

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: nx36sbd.d
Lab Smp Id: NX36LCSDS1
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20081114.b/SW846.m
Misc Info: 08-29555

Calibration Date: 14-NOV-2008
Calibration Time: 11:04
Client Smp ID: NX36LCSDS1
Level: LOW
Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	464989	232494	929978	430705	-7.37
42 Acenaphthene-d10	260727	130364	521454	235256	-9.77
59 Phenanthrene-d10	386739	193370	773478	359653	-7.00
69 Chrysene-d12	448578	224289	897156	425964	-5.04
77 Perylene-d12	467835	233918	935670	394979	-15.57

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.02	8.52	9.52	9.01	-0.06
42 Acenaphthene-d10	11.86	11.36	12.36	11.85	-0.05
59 Phenanthrene-d10	14.20	13.70	14.70	14.19	-0.04
69 Chrysene-d12	18.47	17.97	18.97	18.46	-0.03
77 Perylene-d12	20.59	20.09	21.09	20.59	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: NX36LCSDS1
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pna.sub
Method File: /chem1/nt6.i/20081114.b/SW846.m
Misc Info: 08-29555

Client SDG: NX36
Fraction: SV
Client Smp ID: NX36LCSDS1
Operator: LJR/VTS
SampleType: LCSD
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
28 Naphthalene	500.0	294.3	58.87	50-103
32 2-Methylnaphthalen	500.0	354.9	70.98	30-160
40 Acenaphthylene	500.0	303.4	60.69	30-160
44 Acenaphthene	500.0	305.4	61.08	47-110
46 Dibenzofuran	500.0	290.8	58.17	30-160
49 Fluorene	500.0	325.6	65.12	30-160
60 Phenanthrene	500.0	341.5	68.31	30-160
61 Anthracene	500.0	332.5	66.51	30-160
64 Fluoranthene	500.0	377.1	75.42	57-121
65 Pyrene	500.0	365.2	73.05	30-160
68 Benzo(a)anthracene	500.0	369.3	73.86	55-103
71 Chrysene	500.0	363.7	72.75	30-160
74 Benzo(b)fluoranthe	500.0	408.2	81.64	30-160
75 Benzo(k)fluoranthe	500.0	400.1	80.01	30-160
76 Benzo(a)pyrene	500.0	374.1	74.82	30-160
78 Indeno(1,2,3-cd)py	500.0	260.3	52.06	30-160
79 Dibenzo(a,h)anthra	500.0	274.4	54.88	30-160
80 Benzo(g,h,i)peryle	500.0	230.4	46.08	30-160

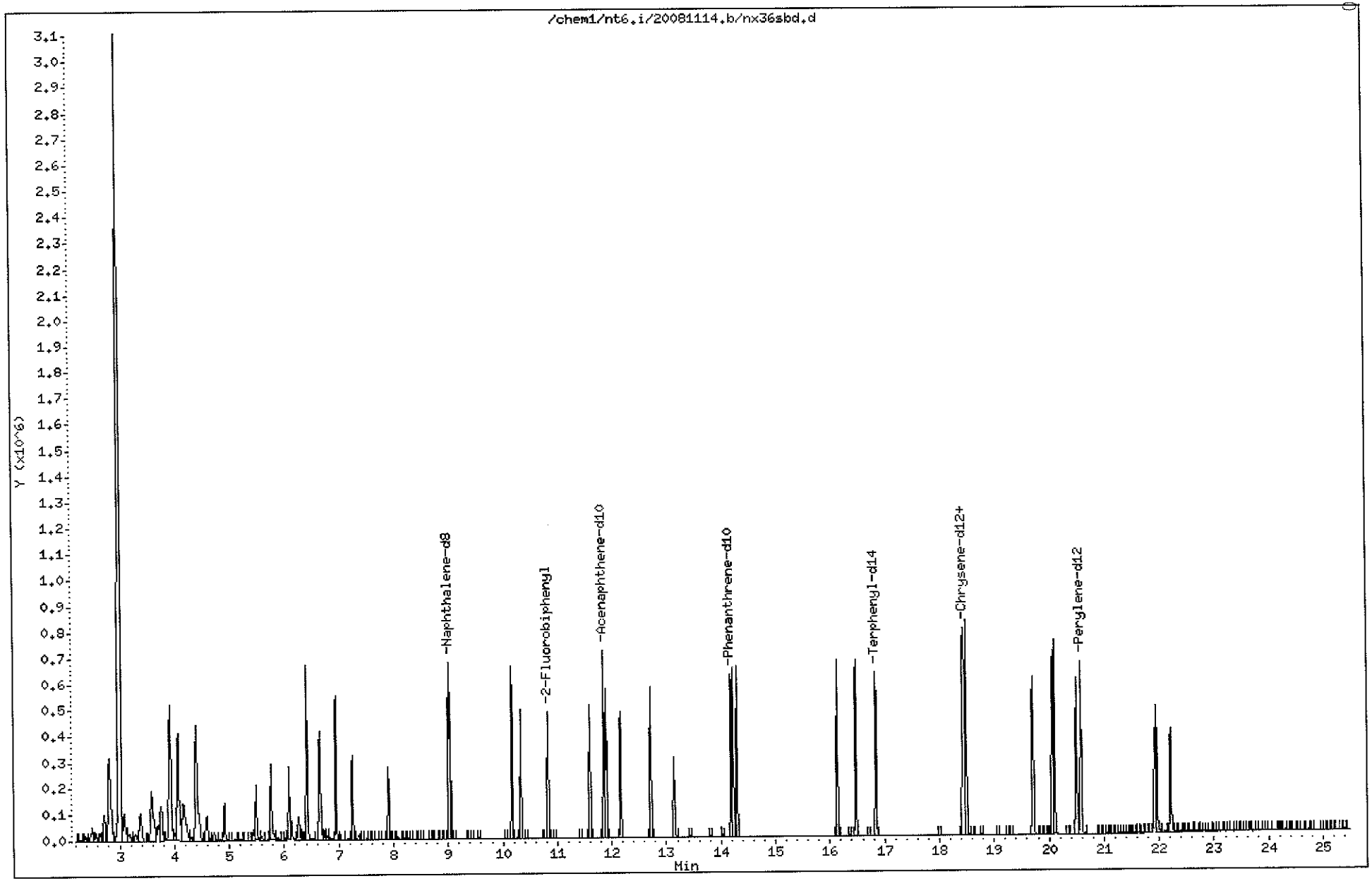
SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	500.0	282.7	56.54	30-160
$ 66 Terphenyl-d14	500.0	362.7	72.54	30-123

Data File: /chem1/nt6.i/20081114.b/nx36sbd.d
Date : 14-NOV-2008 20:39
Client ID: NX36LCSDS1
Sample Info: NX36LCSDS1
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i

Operator: LJR/VTS
Column diameter: 0.32

0218



SVOA Analysis
Extraction Bench Sheets/Run Logs

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NX36

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

Miscellaneous
Water/Soil/Sed/Tissue/Other (Sed circled)
Separatory Funnel (3510C)
Sonication (3550B) (circled)
PSDDA Level

Parameter 8270 PNA
Preparation Test Misc # 1
ARI Job No(s) NX36

Batch set up by: SA

Bottle #	ARI Sample I.D.	Verify Client ID	Volume Extracted	KD	Turbo Vap 1 2 3	(opt) Clean-Up Silica Gel Y / N (circled N) 1:1	Clean-Up Y / N (circled N)	Clean-Up Y / N (circled N)	KD	Turbo Vap 1 2 3 (2 circled)	Final Effective Volume	Volume to Lab	Comments
	NX36												
	MB	Date 11/10/08	25.00g	↓		—				↓	0.5 mL	0.5 mL	10g Actual ↓
	SB		25.00g			—					↓	↓	
	SB Dup.		25.00g			—							
	A	checked	34.03			—							
	B	↓	34.02			—							
	BMS		34.82			—							see Notes
	BMSD		34.13	↓		—							
Analyst/Date: AR 11/10/08 →				RR 11/10/08						WW 11/10/08			

29555

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
BAN Surrogate	A2	125 µL	3/13/09	PD	AR
Spike		µL			
8270 PNA Spike	20	125 µL	1/14/09	PD	AR
Spike		µL			
Extraction Time: 9:25		**Liq/Liq Start:**		**Liq/Liq Stop:**	

SPECIAL INSTRUCTIONS:

3057F

0220

Revision 02
04/29/08

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory
Analyst Notes

ARI Job No.: NX36 Client ID: Anchor Environmental LLC

Parameter: 8270 PNA PSOOA Client Project: Eddon Boatyard

SOP Number(s): 3575 **No Anomalies:**

List problems, concerns, corrective actions and any other pertinent information
Sample A: very wet,
extract NX36 BMS – accidently blown down to ~~0.2~~ ~mL ≈125 uL and brought
Back to 0.5mL for vialing –ww 11/10/08

Analyst Initials:		Date:	

Extractions Total Solids-extts
Data By: Tae K. You
Created: 11/ 3/08

Worklist: 4420
Analyst: TKY
Comments:

	ARI ID / CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1.	NX36A 08-29554 EB-SE06-SE-A-081030	1.16g	11.26g	8.73		NR
2.	NX36B 08-29555 EB-SE07-SE-A-081030	1.16g	11.75g	9.11		NR

Analytical Resources Inc.: Organics Instrument Log

NT-6 Serial No.:GC=US00036167, MS=US81221575

Date: 10/30/08 Analysis: BANs Analyst: LJK

GC Program: ABN1UL Column No: 133563 Column Type: ZB-5 MSi

Instrument Tune (.U or .CT.): 081030 EM Voltage: 1659

Calibration File: 0051030 Curve Date: 10/30/08

IS/SS	Ical/Ccal	LCS/ICV
1506-1	1550-1,2	
	1551-1	
	1552-1	
	1553-1	
	1533-2	

	Time	Filename	LabID	ClientId	DF											
1	1658	0251030.d	ABN 25		1	8.14	81566	10.19	282544	13.07	147142	15.46	207740	19.79	219615	21.96	251306	20.93	314948
2	1732	0801030.d	ABN 80		1	8.15	79522	10.20	281625	13.08	149920	15.47	219495	19.81	282715	21.97	316531	20.93	418899
3	1807	0011030.d	ABN 1		1	8.13	82641	10.19	286442	13.07	150836	15.46	211079	19.79	225757	21.96	268912	20.93	338891
4	1841	0401030.d	ABN 40		1	8.14	75271	10.20	266516	13.08	137474	15.46	202859	19.80	252355	21.97	292201	20.93	373607
5	1915	0051030.d	ABN 5		1	8.14	83986	10.19	291976	13.07	152623	15.46	214832	19.79	238994	21.96	279257	20.92	348241
6	1950	0101030.d	ABN 10		1	8.13	80204	10.19	282504	13.07	146605	15.46	211691	19.79	244911	21.96	286234	20.93	358044
7	2024	icv1030.d	ABN ICV		1	8.14	74949	10.19	268664	13.07	143113	15.46	207381	19.80	226170	21.96	262796	20.93	328115

LJK 10/30/08

Maintenance / Comments New liner + wool. ~~Clipped~~ New column. Cleaned inlet body & seal.

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): 0251030

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: NTG Curve Client ID: ART

ARI SOP: **801S**(SIM-PNA) **802S**(BTS-HX) **803S**(BTS-PW) (**804S**(8270D)) **805S**(BTS-ET)

Parameter(s): BANs

Instrument: NT-1 NT-2 NT-4 (NT-6)

Curve Date: 10/30/08 Analysis Start Date: _____

DFTPP Tune Meets Criteria?	(YES) / NO	Internal Standard Meets Criteria?	(YES) / NO
DDT Breakdown <20%?	(YES) / NO / NA	Method Blank in Control?	~~YES / NO~~
Peak Tailing Factor in Control?	(YES) / NO / NA	LCS / LCSD Recovery in Control?	(YES) / NO
ICal Meets RF & %RSD Criteria?	(YES) / NO	Surrogate Recovery in Control?	~~YES / NO~~
CCal Meets RF & %RSD Criteria?	~~YES / NO~~	Special Analysis Criteria Met?	(YES) / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary): -Linear fit for 2,4-Dinitrophenol.

-N-Nitrosodiphenylamine (59.4%) and Benzidine (63.6%) have ICV recoveries less than 70%.

LJR
10/31/08

Additional Details on Reverse: Yes / (No)

Analyst Signature: _____ **Date:** 10/31/08

Reviewer's Signature: _____ **Date:** 11/3/08

Analytical Resources Inc.: Organics Instrument Log

NT-6 Serial No.:GC=US00036167, MS=US81221575

Date: 11/14/08 Analysis: BANs Analyst: EJK

GC Program: ABNIOL Column No: 133563 Column Type: ZB-5 MSi

Instrument Tune (U or .CT.): 001030 EM Voltage: 1659

Calibration File: cc1114 Curve Date: 10/30/08 & 11/10/08

IS/SS	Ical/Ccal	LCS/ICV
1506-1	1550-1,2	
	1551-1	
	1552-1	
	1553-1	
	1560-1	

	Time	Filename	LabID	ClientId	DF											
1	1104	cc1114.d	ABN 25		1	6.96	136173	9.02	464989	11.86	260727	14.20	386739	18.47	448578	19.72	622088	20.59	467835
2	1138	ns78mb2.d	NS78MBS2	NS78MBS2	1	6.95	152479	9.02	539819	11.85	295823	14.19	449366	18.45	505720	19.71	678859	20.59	423315
3	1211	ns78mb2.d	NS78LCSS2	NS78LCSS2	1	6.95	161898	9.02	556337	11.86	292074	14.20	429876	18.46	538023	19.71	748954	20.59	528891
4	1245	ny64mb.d	NY64MBS1	NY64MBS1	1	6.95	117973	9.02	399291	11.85	208328	14.19	300095	18.45	372136	19.71	520723	20.58	384234
5	1319	ny64sb.d	NY64LCSS1	NY64LCSS1	1	6.95	123571	9.02	421289	11.86	216957	14.20	313081	18.46	400261	19.71	572775	20.59	420906
6	1353	ny64sbd.d	NY64LCSDS1	NY64LCSDS1	1	6.95	120392	9.02	415397	11.85	224282	14.19	323039	18.46	376215	19.71	522917	20.59	391408
7	1427	ns78fre.d	NS78F	SB-20-MS-00	1	6.96	157517	9.02	535905	11.85	286783	14.19	417089	18.45	540321	19.71	751464	20.59	533004
8	1501	ny64a.d	NY64A	TDP26-8-081106	1	6.95	117473	9.01	398032	11.85	217893	14.19	345093	18.46	427840	19.71	593439	20.60	447061
9	1534	ny64c.d	NY64C	TDP28-11-081106	1	6.95	134551	9.01	462601	11.85	278949	14.19	392945	18.45	458700	19.71	622638	20.59	457255
10	1608	ny64d.d	NY64D	TDP29-11-081106	1	6.95	128187	9.02	427402	11.85	244744	14.19	358029	18.45	436924	19.71	593890	20.59	426326
11	1642	ny64dms.d	NY64DMS	TDP29-11-081106 MS	1	6.95	127180	9.02	435181	11.86	243486	14.20	353753	18.46	435363	19.71	599875	20.59	430764
12	1716	ny64dmd.d	NY64DMSD	TDP29-11-081106 MSD	1	6.95	124574	9.02	423322	11.86	238790	14.20	344392	18.46	428433	19.71	584659	20.59	411897
13	1750	ny64f.d	NY64F	TDP31-12-081106	1	6.95	125373	9.02	430097	11.85	245218	14.19	343953	18.45	424358	19.72	606671	20.59	452899
14	1824	ny64m.d	NY64M	TH-DRUM1-SOIL	1	6.95	124115	9.02	413658	11.85	233458	14.19	352291	18.45	425528	19.71	597235	20.59	379716
15	1858	ny93a.d	NY93A	Drums#204,205,207 t	1	6.95	124792	9.02	416403	11.85	225593	14.19	364169	18.46	440636	19.71	590225	20.58	384420
16	1932	nx36mb.d	NX36MBS1	NX36MBS1	1	9.02	428503	11.85	233438	14.19	353136	18.45	433571	20.58	403423				
17	2005	nx36sb.d	NX36LCSS1	NX36LCSS1	1	9.01	433760	11.85	236473	14.20	359550	18.46	429154	20.59	406577				
18	2039	nx36sbd.d	NX36LCSDS1	NX36LCSDS1	1	9.01	430705	11.85	235256	14.19	359653	18.46	425964	20.59	394979				
19	2113	nx36a.d	NX36A	EB-SE06-SE-A-081030	1	9.01	428435	11.85	242429	14.19	384850	18.46	447608	20.59	418817				
20	2147	nx36b.d	NX36B	EB-SE07-SE-A-081030	1	9.01	431826	11.85	239172	14.19	382773	18.46	465261	20.59	425442				
21	2221	nx36bms.d	NX36BMS	EB-SE07-SE-A-08 MS	1	9.02	401776	11.85	215720	14.19	357040	18.46	475878	20.59	389369				
22	2254	nx36bmd.d	NX36BMSD	EB-SE07-SE-A-08 MSD	1	9.01	447789	11.85	256257	14.19	411958	18.46	474248	20.59	396484				

Maintenance / Comments New liner + wool. Clipped column. Cleaned inlet seal.

EJK 11/17/08

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): cc1114

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: NX36 Client ID: Anchor

ARI SOP: **801S**(SIM-PNA) **802S**(BTS-HX) **803S**(BTS-PW) (**804S**(8270D)) **805S**(BTS-ET)

Parameter(s): PNAs

Instrument: NT-1 NT-2 NT-4 (NT-6)

Curve Date: 10/30/08 Analysis Start Date: 11/4/08

DFTPP Tune Meets Criteria?	(YES) / NO	Internal Standard Meets Criteria?	(YES) / NO
DDT Breakdown <20%?	(YES) / NO / NA	Method Blank in Control?	(YES) / NO
Peak Tailing Factor in Control?	(YES) / NO / NA	LCS / LCSD Recovery in Control?	(YES) / NO
ICal Meets RF & %RSD Criteria?	(YES) / NO	Surrogate Recovery in Control?	(YES) / NO
CCal Meets RF & %RSD Criteria?	(YES) / NO	Special Analysis Criteria Met?	(YES) / NO / NA

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

J - Flags

LJK
11/7/08

Additional Details on Reverse: Yes (No)

Analyst Signature: [signature] **Date:** 11/7/08

Reviewer's Signature: [signature] **Date:** 11/12/08

General Chemistry Analysis
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NX36

prepared
by

Analytical Resources, Inc.

MS/MSD RESULTS-CONVENTIONALS
NX36-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/13/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/30/08
Date Received: 10/30/08

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: NX36A Client ID: EB-SE06-SE-A-081030						
Total Organic Carbon	11/12/08	Percent	0.646	1.39	0.671	111.0%

REPLICATE RESULTS-CONVENTIONALS
NX36-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/13/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/30/08
Date Received: 10/30/08

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: NX36A Client ID: EB-SE06-SE-A-081030					
Total Solids	10/31/08	Percent	69.70	71.50 71.00	1.3%
Total Organic Carbon	11/12/08	Percent	0.646	0.698 0.650	4.4%

LAB CONTROL RESULTS-CONVENTIONALS
NX36-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/13/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon	11/12/08	Percent	0.514	0.500	102.8%

METHOD BLANK RESULTS-CONVENTIONALS
NX36-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/13/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	10/31/08	Percent	< 0.01 U
Total Organic Carbon	11/12/08	Percent	< 0.020 U

STANDARD REFERENCE RESULTS-CONVENTIONALS
NX36-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/13/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon NIST #8704	11/12/08	Percent	3.17	3.35	94.6%

General Chemistry Analysis
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NX36

prepared
by

Analytical Resources, Inc.

SAMPLE RESULTS-CONVENTIONALS
NX36-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/13/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/30/08
Date Received: 10/30/08

Client ID: EB-SE06-SE-A-081030
ARI ID: 08-29554 NX36A

Analyte	Date	Method	Units	RL	Sample
Total Solids	10/31/08 103108#1	EPA 160.3	Percent	0.01	69.70
Total Organic Carbon	11/12/08 111208#1	Plumb,1981	Percent	0.020	0.646

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NX36-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/13/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/30/08
Date Received: 10/30/08

Client ID: EB-SE07-SE-A-081030
ARI ID: 08-29555 NX36B

Analyte	Date	Method	Units	RL	Sample
Total Solids	10/31/08 103108#1	EPA 160.3	Percent	0.01	72.70
Total Organic Carbon	11/12/08 111208#1	Plumb,1981	Percent	0.020	0.796

RL Analytical reporting limit
U Undetected at reported detection limit

General Chemistry Analysis
Instrument Raw Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NX36

prepared
by

Analytical Resources, Inc.

W
11-3-08

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

DATE: 10/31/2008

ANALYST: CDE 15:31

SOLIDS *(dry at 104 (12-24 hr) then combust at 550 (30 min))*

Batch drying time		
record times as mm/dd/yy hh:mm		
10/31/08 CDE	time in oven	15:31
11/1/08 RR	time out	13:55
elapsed hrs =	#VALUE!	#VALUE!

TS (%) calculated as:
Final dry wt (g) = (Dry Wt - Tare Wt)
TS = (Final Dry Wt)/ (grams Sample-Tare)

TVS (mg/kg dry wt) calculated as:
Final ash wt (g) = (min ash wt - tare wt)
*TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000*
if ash wt > dry wt, "Chk for Err"
*if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000*

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams) 1			dry Wt (g)	TS (%)	ASH WT 550C (grams) 1	2		Ash Wt (g)	TVS (mg/kg)	(%)
Cal Date -->		10/31/2008	10/31/2008	11/1/2008										
Time & Initials -->		15:09 CDE	14:15 CDE	14:10 CDE										
Cal Wt (g)	10.0000	9.9999	9.9999	9.9998										
record weights to 4 places		*Cal OK!*	*Cal OK!*	*Cal OK!*										
Blank		0.0000	1.0420	1.0422			0.00							
NW69 B6		4.4828	1.0419	4.1324			3.09	89.8%						
NW69 B6 dup		4.4706	1.1163	4.1495			3.03	90.4%						
							RPD =	0.68%				RPD =	NA	
NW69 B6 trp		4.7478	1.1609	4.3263			3.17	88.2%						
							RSD =	1.26%				RSD =	NA	
NX36 A3		3.5348	1.0905	2.7947			1.70	69.7%						
NX36 A3 dup		3.4785	1.1081	2.8023			1.69	71.5%						
							RPD =	2.48%				RPD =	NA	
NX36 A3 trp		3.9481	1.1368	3.1332			2.00	71.0%						
							RSD =	1.28%				RSD =	NA	
NX36 B3		4.8400	1.0836	3.8136			2.73	72.7%						
NX31 A1		6.9831	1.1040	5.8864			4.78	81.3%						
NX31 A1 dup		6.5532	1.0604	5.5684			4.51	82.1%						
							RPD =	0.89%				RPD =	NA	
NX31 A1 trp		6.2710	1.1302	5.3746			4.24	82.6%						
							RSD =	0.75%				RSD =	NA	

0237

① 10-31-08 CAS 1.0604

② 10-31-08 CAS

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

DATE: 10-31-08

SOLIDS *(dry at 104 (12-24 hr) then combust at 550 (30 min))*

ANALYST: CAS 1531

Batch drying time	TS (%) calculated as:	TVS (mg/kg dry wt) calculated as:
record times as mm/dd/yy hh:mm	Final dry wt (g) = (Dry Wt - Tare Wt)	Final ash wt (g) = (min ash wt - tare wt)
10-31-08 CAS time in oven 1531	TS = (Final Dry Wt)/ (grams Sample-Tare)	TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000
11/1/08 AA time out 1355		if ash wt > dry wt, "Chk for Err"
elapsed hrs = 0.0 < 12 hr		if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams) 1			dry Wt (g)	TS (%)	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	TVS (mg/kg)	(%)
Cal Date -->		10-31-08	10-31-08	~~10-31-0~~	11/1/08									
Time & Initials -->		1809 CAS	1415 CAS	1410 AA										
Cal Wt (g) 10.0000		9.9999	9.9999	~~10.0000~~ 9.9998										
record weights to 4 places														
Blank	1	Ø	1.0420	1.0422										
NW69 B6	2	4.4828	1.0419	4.1324										
DP B6	3	4.4706	1.1163	4.1495										
TP B6	4	4.7478	1.1609	4.3263										
NX36 A3	5	3.5348	1.0905	2.7947										
DP A3	6	3.4785	1.1081	2.8023										
TP A3	7	3.9481	1.1368	3.1352										
B3	8	4.8400	1.0836	3.8136										
NX31 A'	9	6.9831	1.1040	5.8864										
DP A'	10	6.5532	~~1.0504~~ 1.0504	5.5684										
TP A'	11	6.2710	1.1302	5.3746										

0238

W
11-3-08

TOC Solids Prep Log

DATE:	10/31/2008
ANALYST:	CDE 14:25

acid purging to remove IC and drying at 70°C for TOC analysis

General notes regarding prep method and samples (identify the acid used)

make no entry to shaded cells, they are calculated

Sample ID		IC Test	Gravimetric Data (grams)			%	*Sample description & notes*
ARI #	Client	+ / -	Tare Wt.	Wet wt.	70°C dry wt	Solids	*(homogeneity and exclusions)*
Blank			12.8542	0.0000	12.8543	0.1 mg	
NX36 A3		-	12.8135	18.1245	17.1576	81.79%	
NX36 A3 DUP		-	12.8304	17.7244	16.6667	78.39%	
NX36 A3 TP		-	12.8604	18.1769	17.0638	79.06%	
NX31 A1		-	12.7293	19.3444	18.2436	83.36%	
NX31 A1 DUP		-	12.8639	18.8927	17.9954	85.12%	
NX31 A1 TP		-	12.8933	19.5281	18.4236	83.35%	
NX36 B3		-	12.9081	18.3848	17.0538	75.70%	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

TOC Solids Preparation Log

Acid purge to remove IC and drying 70 °C for TOC anal ysis
Add general notes regarding samples and preparation and identify the acid used

Analyst CDE Date 10-31-08 14:25

Sample Idenification		IC	Gravimetric Data			% Solids	Sample description & notes
ARI #	Client ID	Test	Tare	Wet	70 °C		
Blank			12.8542	Ø	12.8543		
NX 36 A3		–	12.8135	18.1245	17.1576		
DP A3		–	12.8304	17.7244	16.6667		
TP A3		–	12.8604	18.1769	17.0638		
NX 31 A'		–	12.7293	19.3444	18.2436		
DP A'		–	12.8639	18.8927	17.9954		
TP A'		–	12.8933	19.5281	18.4236		
NX36 B3		–	12.9081	18.3848	17.6538		

10-31-08 CDE

TOC, Solids Data Analysis, DC-190

DATE: 11/12/08 9:48
ANALYST: KE

Mode: NPOC *Inlet:* Boat
Spike Std = 2,000 *ppm C*

Calibration Data
Calibration Standard Source: ARI # 0087 - 6 *Conc (ppm):* 2,000

Observed Values (µg/g)	mean	Cal Factor

Verification Standard *Source:* ERA 0528 - 08 - 02 *Conc (ppm):* 5,000
Standard Reference Material *Source:* NIST 8704 *Conc (ppm):* 33,510

Blank Data

System Blanks (enter "observed C")

Replicate Determinations						Mean	condition
Replicate	1	2	3	4	5		
ppm	16.63	12.02	5.86	53.74		22.06	OK !

Historical Blank Limits

mean	stdev
17.8	7.23
LBL	-3.9
UBL	39.5

Silica Blanks (enter "corrected C" at end of run)

Replicate	1	2	3	4	5	Mean	condition

Sample Data *(Entered data must match the Dohrmann output report !)*

"Corrected C" (no dilution) = "Observed C" - Mean Blank
*"Corrected C" (with dilution) = ("Observed C" - (Mean silica Blank * %Silica)) * Dilution Factor*

Sample ID	Dilution Data: Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor	Spike (µL Std)	Combustion Data: Burn wt. (mg)	Observed C (ppm C)	Corrected C (ppm C)	
ICV				1.00		10.0	5158	5,136	102.72%
Blank				1.00		10.0	16.63		Blank OK
NIST 8704				1.00		3.7	31680	31,658	94.47%
NT66 B2				1.00		2.2	4232	4,210	Range OK!
NT66 B2 dup				1.00		2.1	3672	3,650	RPD=14.2%
NT66 B2 trp				1.00		2.6	3828	3,806	RSD=7.4%
~~NT66 B2 ms~~			-	~~1.00~~	~~10~~	~~3.6~~	~~11630~~	~~11,608~~	~~Range OK!~~
~~Spike =~~	*~~0.02~~*	*~~mg C to~~*	*~~3.6~~*	*~~mg samp=~~*	*~~5,556~~*	*~~ppm~~*		*~~133%~~*	
NT66 B2 ms				1.00	10	3.2	11520	11,498	Range OK!
Spike =	*0.02*	*mg C to*	*3.2*	*mg samp=*	*6,250*	*ppm*		*117%*	
NT66 F2				1.00		3.3	28900	28,878	Range OK!
NW42 L1				1.00		3.4	5223	5,201	Range OK!
NW42 L1 dup				1.00		3.3	4820	4,798	RPD=8.1%
NZ13 A1				1.00		3.2	10550	10,528	Range OK!
NZ13 B1				1.00		2.4	24810	24,788	Range OK!
CCV				1.00		10.0	4820	4,798	95.96%
Blank				1.00		10.0	12.02		Blank OK
NZ13 C1				1.00		2.0	22470	22,448	Range OK!
NZ11 A1				1.00		2.5	5465	5,443	Range OK!
NZ11 A1 dup				1.00		2.5	5815	5,793	RPD=6.2%
NZ11 A1 trp				1.00		2.4	4785	4,763	RSD=9.8%
NZ11 A1 ms				1.00	10	3.5	12290	12,268	Range OK!
Spike =	*0.02*	*mg C to*	*3.5*	*mg samp=*	*5,714*	*ppm*		*119%*	
NX36 A3				1.00		3.0	5524	5,502	Range OK!
NX36 A3 dup				1.00		3.0	5974	5,952	RPD=7.9%
NX36 A3 trp				1.00		2.9	5563	5,541	RSD=4.4%
NX36 A3 ms				1.00	10	3.5	11890	11,868	Range OK!
Spike =	*0.02*	*mg C to*	*3.5*	*mg samp=*	*5,714*	*ppm*		*111%*	
NX36 B3				1.00		3.3	7668	7,646	Range OK!
CCV				1.00		10.0	4893	4,871	97.42%
Blank				1.00		10.0	5.862		Blank OK
~~NV58 A1~~			-	~~1.00~~		~~1.0~~	~~99380~~	~~99,358~~	~~Range OK!~~
NU81 A2				1.00		0.9	41960	41,938	Range OK!

Sample Data *(Entered data must match the Dohrmann output report !)*

"Corrected C" (no dilution) = "Observed C" - Mean Blank

*"Corrected C" (with dilution) = ("Observed C" - (Mean silica Blank * %Silica)) * Dilution Factor*

Sample ID	Dilution Data				Spike	Combustion Data			
	Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor	(µL Std)	Burn wt. (mg)	Observed C (ppm C)	Corrected C (ppm C)	
NU81 A2 dup				1.00		0.9	43420	43,398	*RPD=3.4%*
NU81 A2 trp				1.00		0.9	44480	44,458	*RSD=2.9%*
NU81 A2 ms				1.00	30	1.4	80810	80,788	*Range OK!*
Spike =	*0.06*	*mg C to*	*1.4*	*mg samp=*	*42,857*	*ppm*		*91%*	
NU81 B2				1.00		1.1	23210	23,188	*Range OK!*
NU81 C2				1.00		2.9	1998	1,976	*Range OK!*
NU81 D2				1.00		1.2	5931	5,909	*Range OK!*
NIST 8704				1.00		3.6	31370	31,348	*93.55%*
CCV				1.00		10.0	5023	5,001	*100.02%*
Blank				1.00		10.0	53.74		*Blank OK*

Analytical Resources, Incorporated
Analytical Chemists and Consultants

11-12-08 (W)

TOC Solids Sample Run Log

Page 1 of —

Set-Up Parameters MODE: NPOC INLET: BOAT

Standards:	Source	Conc (ppm)
Calibration:	ARI 0087-06	2000
Verification:	ERA 0528-0802	5000
SRM:	NBS 8704	33510

9:48

Sample Sequence:

Sample ID	Dilution Data (mg)		Burn Wt	Matrix Spike Data		Comments
	Sample	+ Silica Gel	mg	mg/L	µL added	
ICV			10			
ICB			10			
NBS 8704			3.7			
NT66 B2			2.2			
DP B2			2.1			
VP B2			2.6			
MS B2			3.6	2000	10	
MSD B2			3.2	2000	10	
F2			3.3			
PE NW42 L1			3.4			
L1			3.3			
NZ15 NZ10 A1			3.2			
B1			2.4			
CCV C10			(1) 10			
CCB			10			
NZ15 C1			2.0			
NZ11 A1			2.5			
DP A1			2.5			
VP A1			2.4			
MS A1			3.5	2000	10	
NX36 A3			3.0			
DP A3			3.0			
VP A3			2.9			
MS A3			3.5	2000	10	
B3			3.3			
CCV			10			
CCB			10			
NU58 A1			1.0			leave
NU81 A2			0.9			
DP A2			0.9			
VP A2			0.9			
MS A2			1.4	2000	30	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

01-11-12 08 (W)

TOC Solids Sample Run Log

Page — of 2

Set-Up Parameters MODE: NPOC INLET: BOAT

Standards:	Source	Conc (ppm)
Calibration:	ARI 0087-6	2000
Verification:	ERA 0508-08-02	5000
SRM:	NBS 8704	33510

9:48

Sample Sequence:

Sample ID	Dilution Data (mg)		Burn Wt	Matrix Spike Data		Comments
	Sample	+ Silica Gel	mg	mg/L	µL added	
NU481 B2			~~2.~~ 11.1			
C2			29			
↓ D2			1.2			
NBS 8704			3.6			
CCV			10			
CCB			10			

1-12-08 (W)

11-12-08(W)

Operating Parameters

Analysis set-up 1
NPOC Analysis
Boat mode
Sample size 10.
Calibration factor 1.240078
System blank 0.
Std. concentration =2000.
Sample mass (mg) = 10.
1. NPOC = 5158. ug/g
11:02:02 Wed Nov 12, 2008
Sample mass (mg) = 10.
1. NPOC = 16.63 ug/g
11:44:08 Wed Nov 12, 2008
Sample mass (mg) = 3.7
1. NPOC = 31680. ug/g
11:53:31 Wed Nov 12, 2008
Sample mass (mg) = 2.2
1. NPOC = 4232. ug/g
12:02:50 Wed Nov 12, 2008
Sample mass (mg) = 2.1
1. NPOC = 3672. ug/g
12:09:28 Wed Nov 12, 2008
Sample mass (mg) = 2.6
1. NPOC = 3828. ug/g
12:16:45 Wed Nov 12, 2008
Sample mass (mg) = 3.6
1. NPOC = 11630. ug/g
12:27:43 Wed Nov 12, 2008
Sample mass (mg) = 3.2
1. NPOC = 11520. ug/g
13:09:30 Wed Nov 12, 2008
Sample mass (mg) = 3.3
1. NPOC = 28900. ug/g
13:23:16 Wed Nov 12, 2008
Sample mass (mg) = 3.4
1. NPOC = 5223. ug/g
13:51:13 Wed Nov 12, 2008
Sample mass (mg) = 3.3
1. NPOC = 4820. ug/g
14:05:02 Wed Nov 12, 2008
Sample mass (mg) = 3.2
1. NPOC = 10550. ug/g
14:15:17 Wed Nov 12, 2008
Sample mass (mg) = 2.4
1. NPOC = 24810. ug/g
14:27:33 Wed Nov 12, 2008
Sample mass (mg) = 10.
1. NPOC = 4820. ug/g
14:32:26 Wed Nov 12, 2008
Sample mass (mg) = 10.
1. NPOC = 12.02 ug/g
14:38:15 Wed Nov 12, 2008
Sample mass (mg) = 2.
1. NPOC = 22470. ug/g
14:43:01 Wed Nov 12, 2008
Sample mass (mg) = 2.5
1. NPOC = 5465. ug/g
14:47:10 Wed Nov 12, 2008
Sample mass (mg) = 2.5
1. NPOC = 5815. ug/g

Sample mass (mg) = 2.4
1. NPOC = 4785. ug/g
15:00:33 Wed Nov 12, 2008
Sample mass (mg) = 3.5
1. NPOC = 12290. ug/g
15:15:28 Wed Nov 12, 2008
Sample mass (mg) = 3.
1. NPOC = 5524. ug/g
15:33:42 Wed Nov 12, 2008
Sample mass (mg) = 3.
1. NPOC = 5974. ug/g
16:13:04 Wed Nov 12, 2008
Sample mass (mg) = 2.9
1. NPOC = 5563. ug/g
16:24:18 Wed Nov 12, 2008
Sample mass (mg) = 3.5
1. NPOC = 11890. ug/g
16:42:31 Wed Nov 12, 2008
Sample mass (mg) = 3.3
1. NPOC = 7668. ug/g
16:58:15 Wed Nov 12, 2008
Sample mass (mg) = 10.
1. NPOC = 4893. ug/g
17:14:19 Wed Nov 12, 2008
Sample mass (mg) = 10.
1. NPOC = 5.862 ug/g
17:25:40 Wed Nov 12, 2008
Sample mass (mg) = 1.
1. NPOC = 99380. ug/g
17:37:38 Wed Nov 12, 2008
Sample mass (mg) = 0.9
1. NPOC = 41960. ug/g
17:54:51 Wed Nov 12, 2008
Sample mass (mg) = 0.9
1. NPOC = 43420. ug/g
18:00:25 Wed Nov 12, 2008
Sample mass (mg) = 0.9
1. NPOC = 44480. ug/g
18:07:57 Wed Nov 12, 2008
Sample mass (mg) = 1.4
1. NPOC = 80810. ug/g
18:16:57 Wed Nov 12, 2008
Sample mass (mg) = 1.1
1. NPOC = 23210. ug/g
18:25:01 Wed Nov 12, 2008
Sample mass (mg) = 2.9
1. NPOC = 1998. ug/g
18:30:23 Wed Nov 12, 2008
Sample mass (mg) = 1.2
1. NPOC = 5931. ug/g
18:36:58 Wed Nov 12, 2008
Sample mass (mg) = 3.6
1. NPOC = 31370. ug/g
18:43:15 Wed Nov 12, 2008
Sample mass (mg) = 10.
1. NPOC = 5023. ug/g
18:49:18 Wed Nov 12, 2008
Sample mass (mg) = 10.
1. NPOC = 53.74 ug/g
18:51:19 Wed Nov 12, 2008

Analytical Resources, Incorporated
Analytical Chemists and Consultants

November 13, 2008

Joy Dunay
Anchor Environmental
1423 3rd Avenue, Suite 300
Seattle, WA 98101

RE: 040289-02 Eddon Boatyard
ARI Job No.: NV61

Dear Joy:

Please find enclosed the Chain-of-Custody (COC) record, sample receipt documentation, and the final data package for samples from the project referenced above.

Sample receipt and details of the analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
-For-
Susan Dunnihoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures

cc: eFile NV61

Chain of Custody
Documentation

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NV61

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: N161	Turn-around Requested: STANDARD 3 Week	Page: 1 of 1	
ARI Client Company: Anchor Environmental	Phone: 206-903-3320	Date: 10/21/08	Ice Present? Y
Client Contact: Joy Dunay		No. of Coolers: 1	Cooler Temps:
Client Project Name: Eddon Boatyard			
Client Project #: 040289-02	Samplers: DG		

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: TS TOC	SMS METALS	PCBs	Archive					Notes/Comments
EB-SE05-A-081021	10/21/08	1030	SE	3	X	X	X	X					

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: David Gillingham	Printed Name: A. Vorgardsen	Printed Name:	Printed Name:
	Company: Anchor	Company: ARI	Company:	Company:
	Date & Time: 10/21/08 1140	Date & Time: 10/21/08 1140	Date & Time:	Date & Time:

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Anchor
COC No:
Assigned ARI Job No: NV61

Project Name: EDDYN Boatyard
Delivered by: Hand
Tracking No:

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO
Record cooler temperature (recommended 2.0-6.0 °C for chemistry	2.0 °C	

Cooler Accepted by: AV Date: 10/21/08 Time: 1140

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?	YES	(NO)
What kind of packing material was used?	Bag	
Was sufficient ice used (if appropriate)?	(YES)	NO
Were all bottles sealed in individual plastic bags?	YES	(NO)
Did all bottle arrive in good condition (unbroken)?	(YES)	NO
Were all bottle labels complete and legible?	(YES)	NO
Did all bottle labels and tags agree with custody papers?	(YES)	NO
Were all bottles used correct for the requested analyses?	(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation checklist)	YES	(NO)
Were all VOC vials free of air bubbles? (NA)	YES	NO
Was sufficient amount of sample sent in each bottle?	(YES)	NO

Samples Logged by: JL Date: 10/22/08 Time: 800

***** Notify Project Manager of discrepancies or concerns *****

Explain discrepancies or negative responses:

By: Date:

1053

Case Narrative

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NV61

prepared
by

Analytical Resources, Inc.

Case Narrative

Client: Anchor Environmental
Project: 040289-02 Eddon Boatyard
ARI Job No.: NV61

Sample receipt

One sediment sample was received by Analytical Resources, Inc. (ARI) on October 21, 2008. The cooler temperature measured by IR thermometer following ARI SOP was 2.0°C. The sample was well-iced, in good condition, and received within a short time of sampling.

PCBs by SW8082

The sample was extracted and analyzed within the method recommended holding times.

Initial and continuing calibrations were within method requirements. Internal standard areas were within limits.

The method blank was clean at the reporting limit. The LCS recoveries were within limits.

Surrogates recoveries were within ARI limits.

Metals by Methods 6010B/7471A

The sample was prepared and analyzed within the method recommended holding times.

The method blank was clean at the reporting limit. The LCS percent recovery was within the control limits.

General Chemistry (TOC)

The sample was prepared and analyzed within the method recommended holding times.

The method blank was clean at the reporting limit. The LCS percent recovery was within the control limits.

The MS and replicate recoveries were within control limits.

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U	Indicates that the target analyte was not detected at the reported concentration
*	Duplicate RPD is not within established control limits
B	Reported value is less than the CRDL but ≥ the Reporting Limit
N	Matrix Spike recovery not within established control limits
NA	Not Applicable, analyte not spiked
H	The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
L	Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U	Indicates that the target analyte was not detected at the reported concentration
*	Flagged value is not within established control limits
B	Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
J	Estimated concentration when the value is less than ARI's established reporting limits
D	The spiked compound was not detected due to sample extract dilution
NR	Spiked compound recovery is not reported due to chromatographic interference
E	Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
S	Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
NA	The flagged analyte was not analyzed for
NS	The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.

F Samples were frozen prior to particle size determination

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

LCS SOLUTIONS

9/27/2008

LABE	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
1	1534-5	PCB	20	MEOH	08/26/09
2	1472-3	BCOC PEST	10	ACETONE	07/20/08
3	1517-1	PEST	02/04/20	ACETONE	05/15/09
4	1515-1	LOW PEST	0.2/0.4/2	ACETONE	01/24/09
5	1537-1	EPH	1500	MECL2	08/16/09
6*	1456-3	PCP	12.5	ACETONE	04/18/09
7	1541-3	ABN	100	ACETONE	08/01/09
8	1487-2	TBT	10	MECL2	12/15/08
9	1493-3	PORE TBT	.25/.5	MECL2	12/15/08
10	1537-2	ABN ACID	100/200	MEOH	04/10/09
11	1526-1	TPHD	15000	ACETONE	06/25/09
12	1542-1	ABN BASE	200	ACETONE	07/01/09
13*	1427-3	LOW PCB	2	ACETONE	10/11/08
14	1480-2	LOW ABN ACID	10/20	MEOH	10/09/08
15*	1452-1	SIM PNA	15/75	MEOH	04/09/09
16	1502-2	DIOXANE	100	MEOH	02/20/09
17	1516-2	1248 PCB	20	ACETONE	05/07/09
18	1514-4	LOW SIM PNA	1.5/7.5	ACETONE	04/24/09
19	1517-3	AK103	7500	MECL2	12/29/08
20	1490-4	PNA	100	MEOH	01/10/09
21*	1414-4	SKY/BHT	100	MEOH	04/08/09
22	1539-1	HERB	12.5/12500	MEOH	08/31/09
23	1505-1	LOW ABN BASE	20	MEOH	03/20/09
24	1541-4	LOW ABN	10	ACETONE	08/01/09
25	1481-1	DIPHENYL	100	MEOH	07/20/08
26	1545-2	OP-PEST	25	MEOH	02/14/09
27	1495-1	STEROLS	200	MEOH	12/29/08
28	1494-1	ADD. PEST	4	ACETONE	01/23/09
29	1496-3	DECANES	100	MEOH	02/12/09
30	1497-2	EDB/DBCP	2	ACETONE	02/12/09
31	1510-3	TERPINEOL	100	MEOH	03/21/09

LCS SOLUTIONS

9/27/2008

32	1545-3	GUAIACOL	50-200	ACETONE	06/05/09
33	1522-1	RESIN ACID	250	ACETONE	06/11/09
34	1530-2	CONGENERS	1	ACETONE	07/23/09
50	1523-1	FULL RESIN	250	ACETONE	06/10/09
*=REVERIFIED SOLUTION					

SURR SOLUTIONS

9/27/2008

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
A	1540-3	ABN	100/150	MEOH	03/13/09
B	1513-1	SIM PNA	15/75	MEOH	04/15/09
C*	1443-1	SIM ABN	10/15	MEOH	04/03/09
D	1538-3	LOW PCB	0.2	ACETONE	07/31/09
E	1478-1	HERB	62.5	MEOH	09/21/08
F	1520-3	PCP	12.5	ACETONE	04/18/09
G	1534-1	1,4DIOXANE	100	MEOH	02/20/09
H	1545-1	OP-PEST	25	MEOH	02/14/09
I*	1458-1	LOW S. PNA	03/15	MEOH	06/05/09
J	1493-2	TBT-PORE	0.25	MECL2	12/15/08
K	1538-1	MED PCB	20	ACETONE	07/31/09
L	1486-5	TBT	10	MECL2	12/15/08
M	1518-3	EPH	1500	MECL2	05/10/09
N	1538-2	PCB	2	ACETONE	07/31/09
O	1544-3	TPH	450	MECL2	09/24/09
P	1544-2	HCID	2250	MECL2	09/24/09
Q	1497-3	EDB	2	ACETONE	02/12/09
R	1521-4	RESIN ACID	250	ACETONE	06/11/09
S	*RE-VER	FIED SOLUT	ON		
T					
U					
V					
W					
X					
Y					
Z					

Data Summary Package

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NV61

prepared
by

Analytical Resources, Inc.

PCBS

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: EB-SE05-A-081021
SAMPLE

Lab Sample ID: NV61A
LIMS ID: 08-28611
Matrix: Sediment
Data Release Authorized:
Reported: 11/06/08

QC Report No: NV61-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/21/08
Date Received: 10/21/08

Date Extracted: 10/27/08
Date Analyzed: 10/30/08 03:00
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 25.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.8	< 9.8 U
53469-21-9	Aroclor 1242	9.8	< 9.8 U
12672-29-6	Aroclor 1248	9.8	< 9.8 U
11097-69-1	**Aroclor 1254**	**9.8**	**40**
11096-82-5	**Aroclor 1260**	**9.8**	**20**
11104-28-2	Aroclor 1221	9.8	< 9.8 U
11141-16-5	Aroclor 1232	9.8	< 9.8 U
37324-23-5	Aroclor 1262	9.8	< 9.8 U
11100-14-4	Aroclor 1268	9.8	< 9.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	105%
Tetrachlorometaxylene	102%

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: NV61-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02

Client ID	DCBP % REC	DCBP LCL-UCL	TCMX % REC	TCMX LCL-UCL	TOT OUT
MB-102708	118%	59-122	95.0%	47-120	0
LCS-102708	113%	59-122	89.5%	47-120	0
EB-SE05-A-081021	105%	40-139	102%	49-120	0

Low Level PSDDA Control Limits
Prep Method: SW3550B
Log Number Range: 08-28611 to 08-28611

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: LCS-102708
LAB CONTROL

Lab Sample ID: LCS-102708
LIMS ID: 08-28611
Matrix: Sediment
Data Release Authorized:
Reported: 11/06/08

QC Report No: NV61-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 10/27/08
Date Analyzed: 10/30/08 02:43
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.0 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	46.2	50.4	91.7%
Aroclor 1260	54.1	50.4	107%

PCB Surrogate Recovery

Decachlorobiphenyl	113%
Tetrachlorometaxylene	89.5%

Results reported in µg/kg (ppb)

PCB METHOD BLANK SUMMARY

BLANK NO.

NV61MBS1

Lab Name: ANALYTICAL RESOURCES, INC
Client: ANCHOR

ARI Job No.: NV61
Project: EDDON BOATYARD

Lab Sample ID: NV61MBS1
Lab File ID: 1029B060

Date Extracted: 10/27/08
Matrix: SOLID

Date Analyzed: 10/30/08
Instrument ID: ECD5

Time Analyzed: 0226
GC Columns: ZB5/ZB35

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	NV61LCSS1	NV61LCSS1	10/30/08
02	EB-SE05-A-081021	NV61A	10/30/08

ALL RUNS ARE DUAL COLUMN

FORM IV PCB

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: MB-102708
METHOD BLANK

Lab Sample ID: MB-102708
LIMS ID: 08-28611
Matrix: Sediment
Data Release Authorized:
Reported: 11/06/08

QC Report No: NV61-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 10/27/08
Date Analyzed: 10/30/08 02:26
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.0 g
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	10	< 10 U
53469-21-9	Aroclor 1242	10	< 10 U
12672-29-6	Aroclor 1248	10	< 10 U
11097-69-1	Aroclor 1254	10	< 10 U
11096-82-5	Aroclor 1260	10	< 10 U
11104-28-2	Aroclor 1221	10	< 10 U
11141-16-5	Aroclor 1232	10	< 10 U
37324-23-5	Aroclor 1262	10	< 10 U
11100-14-4	Aroclor 1268	10	< 10 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	118%
Tetrachlorometaxylene	95.0%

METALS

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: EB-SE05-A-081021
SAMPLE

Lab Sample ID: NV61A
LIMS ID: 08-28611
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/08

QC Report No: NV61-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/21/08
Date Received: 10/21/08

Percent Total Solids: 80.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	10/24/08	6010B	11/10/08	**7440-38-2**	**Arsenic**	6	**9**	
3050B	10/24/08	6010B	11/10/08	**7440-43-9**	**Cadmium**	0.2	**0.4**	
3050B	10/24/08	6010B	11/10/08	**7440-47-3**	**Chromium**	0.6	**27.4**	
3050B	10/24/08	6010B	11/10/08	**7440-50-8**	**Copper**	0.2	**84.6**	
3050B	10/24/08	6010B	11/10/08	**7439-92-1**	**Lead**	2	**34**	
CLP	10/24/08	7471A	10/31/08	**7439-97-6**	**Mercury**	0.06	**0.54**	
3050B	10/24/08	6010B	11/10/08	7440-22-4	Silver	0.4	0.4	U
3050B	10/24/08	6010B	11/10/08	**7440-66-6**	**Zinc**	1	**188**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: NV61LCS
LIMS ID: 08-28611
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/08

QC Report No: NV61-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	208	200	104%	
Cadmium	6010B	49.0	50.0	98.0%	
Chromium	6010B	48.5	50.0	97.0%	
Copper	6010B	49.5	50.0	99.0%	
Lead	6010B	202	200	101%	
Mercury	7471A	1.06	1.00	106%	
Silver	6010B	52.2	50.0	104%	
Zinc	6010B	49	50	98.0%	

Reported in mg/kg-dry

N-Control limit not met
NA-Not Applicable, Analyte Not Spiked
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: NV61MB
LIMS ID: 08-28611
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/08

QC Report No: NV61-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	10/24/08	6010B	11/10/08	7440-38-2	Arsenic	5	5	U
3050B	10/24/08	6010B	11/10/08	7440-43-9	Cadmium	0.2	0.2	U
3050B	10/24/08	6010B	11/10/08	7440-47-3	Chromium	0.5	0.5	U
3050B	10/24/08	6010B	11/10/08	7440-50-8	Copper	0.2	0.2	U
3050B	10/24/08	6010B	11/10/08	7439-92-1	Lead	2	2	U
CLP	10/24/08	7471A	10/31/08	7439-97-6	Mercury	0.05	0.05	U
3050B	10/24/08	6010B	11/10/08	7440-22-4	Silver	0.3	0.3	U
3050B	10/24/08	6010B	11/10/08	7440-66-6	Zinc	1	1	U

U-Analyte undetected at given RL
RL-Reporting Limit

GENERAL CHEMISTRY

SAMPLE RESULTS-CONVENTIONALS
NV61-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/04/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/21/08
Date Received: 10/21/08

Client ID: EB-SE05-A-081021
ARI ID: 08-28611 NV61A

Analyte	Date	Method	Units	RL	Sample
Total Solids	10/22/08 102208#1	EPA 160.3	Percent	0.01	82.90
Total Organic Carbon	11/01/08 110108#1	Plumb,1981	Percent	0.020	1.75

RL Analytical reporting limit
U Undetected at reported detection limit

MS/MSD RESULTS-CONVENTIONALS
NV61-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/04/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/21/08
Date Received: 10/21/08

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: NV61A Client ID: EB-SE05-A-081021						
Total Organic Carbon	11/01/08	Percent	1.75	3.82	1.71	121.1%

REPLICATE RESULTS-CONVENTIONALS
NV61-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/04/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/21/08
Date Received: 10/21/08

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: NV61A Client ID: EB-SE05-A-081021					
Total Solids	10/22/08	Percent	82.90	80.10 82.70	1.9%
Total Organic Carbon	11/01/08	Percent	1.75	1.79 2.23	13.8%

LAB CONTROL RESULTS-CONVENTIONALS
NV61-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/04/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon	11/01/08	Percent	0.500	0.500	100.0%

METHOD BLANK RESULTS-CONVENTIONALS
NV61-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/04/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	10/22/08	Percent	< 0.01 U
Total Organic Carbon	11/01/08	Percent	< 0.020 U

STANDARD REFERENCE RESULTS-CONVENTIONALS
NV61-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/04/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon NIST #8704	11/01/08	Percent	3.79	3.35	113.1%

TOTAL SOLIDS

Extractions Total Solids-extts
Data By: Jim Hawk
Created: 10/23/08

Worklist: 9596
Analyst: RVR
Comments:

	ARI ID CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1.	NV61A 08-28611 EB-SE05-A-081021	1.19	11.91	9.22	74.9	NR

Solids Data Entry Report Checked by: KM Date: 10/30/08
Date: 10/28/08 Data Analyst: DM

Solids Determination performed on 10/27/08 by DM

JOB	SAMPLE	CLIENTID	TAREWEIGHT	SAMPDISH	DRYWEIGHT	SOLIDS
NV61	A	EB-SE05-A-081021	1.026	10.202	8.421	80.59

Laboratory Data Package

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NV61

prepared
by

Analytical Resources, Inc.

PCB Analysis
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NV61

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: NV61-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02

Client ID	DCBP % REC	DCBP LCL-UCL	TCMX % REC	TCMX LCL-UCL	TOT OUT
MB-102708	118%	59-122	95.0%	47-120	0
LCS-102708	113%	59-122	89.5%	47-120	0
EB-SE05-A-081021	105%	40-139	102%	49-120	0

Low Level PSDDA Control Limits
Prep Method: SW3550B
Log Number Range: 08-28611 to 08-28611

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: LCS-102708
LAB CONTROL

Lab Sample ID: LCS-102708
LIMS ID: 08-28611
Matrix: Sediment
Data Release Authorized:
Reported: 11/06/08

QC Report No: NV61-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 10/27/08
Date Analyzed: 10/30/08 02:43
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.0 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	46.2	50.4	91.7%
Aroclor 1260	54.1	50.4	107%

PCB Surrogate Recovery

Decachlorobiphenyl	113%
Tetrachlorometaxylene	89.5%

Results reported in µg/kg (ppb)

4

PCB METHOD BLANK SUMMARY

BLANK NO.

NV61MBS1

Lab Name: ANALYTICAL RESOURCES, INC — Client: ANCHOR

ARI Job No.: NV61 — Project: EDDON BOATYARD

Lab Sample ID: NV61MBS1 — Lab File ID: 1029B060

Date Extracted: 10/27/08 — Matrix: SOLID

Date Analyzed: 10/30/08 — Instrument ID: ECD5

Time Analyzed: 0226 — GC Columns: ZB5/ZB35

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	NV61LCSS1	NV61LCSS1	10/30/08
02	EB-SE05-A-081021	NV61A	10/30/08

ALL RUNS ARE DUAL COLUMN

FORM IV PCB

FORM 8
PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL, LLC.

ARI Job No.: NV61 Project: EDDON BOATYARD

GC Column: ZB5 ID: 0.53(mm) Instrument ID: ECD5

Init. Calib. Date: 10/28/08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

		IS1 AREA	RT	IS2 AREA	RT
	ICAL MIDPT	24393719	2.341	5010762	11.616
	UPPER LIMIT	48787438	2.441	10021524	11.716
	LOWER LIMIT	12196860	2.241	2505381	11.516

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME	IS1 AREA	RT	IS2 AREA	RT
01		IB	10/28/08	1105	24235474	2.316	4912201	11.619
02		250 PPB AR16	10/28/08	1122	24393719	2.341	5010762	11.616
03		20 PPB AR166	10/28/08	1139	23353994	2.342	4995897	11.615
04		1000 PPM AR1	10/28/08	1156	25152222	2.348	5209532	11.615
05		100 PPB AR16	10/28/08	1214	24613630	2.340	5092307	11.614
06		500 PPB AR16	10/28/08	1231	24885537	2.339	5205184	11.615
07		AR1660 ICV	10/28/08	1248	24600665	2.348	5149772	11.616
08		250 PPB AR12	10/28/08	1306	23531056	2.339	4943989	11.616
09		250 PPB AR12	10/28/08	1323	23679615	2.338	4933109	11.615
10		250 PPB AR12	10/28/08	1340	23951421	2.339	5017070	11.615
11		250 PPB AR21	10/28/08	1358	23765720	2.341	5050334	11.615
12		250 PPB AR32	10/28/08	1415	23676695	2.342	5073492	11.614
13		AR1254	10/29/08	2335	25394650	2.348	5270686	11.616
14		AR1660	10/29/08	2352	27451579	2.346	5696473	11.616
15	NV61MBS1	NV61MBS1	10/30/08	0226	25726120	2.350	5091676	11.616
16	NV61LCSS1	NV61LCSS1	10/30/08	0243	24514446	2.347	4935718	11.616
17	EB-SE05-A-08	NV61A	10/30/08	0300	23264714	2.346	5383341	11.614
18		AR1248	10/30/08	0351	25632710	2.349	5180384	11.616
19		AR1660	10/30/08	0408	28137237	2.350	5716626	11.617

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- 0.1 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

FORM 8
PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL, LLC.

ARI Job No.: NV61 Project: EDDON BOATYARD

GC Column: ZB35 ID: 0.53(mm) Instrument ID: ECD5

Init. Calib. Date: 10/28/08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

		IS1 AREA	RT	IS2 AREA	RT
	ICAL MIDPT	25207774	3.116	4413062	12.337
	UPPER LIMIT	50415548	3.216	8826124	12.437
	LOWER LIMIT	12603887	3.016	2206531	12.237

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME	IS1 AREA	RT	IS2 AREA	RT
01		IB	10/28/08	1105	24906421	3.078	4368394	12.337
02		250 PPB AR16	10/28/08	1122	25207774	3.116	4413062	12.337
03		20 PPB AR166	10/28/08	1139	25107549	3.117	4337942	12.337
04		1000 PPM AR1	10/28/08	1156	25895528	3.119	4661184	12.337
05		100 PPB AR16	10/28/08	1214	25585754	3.115	4427117	12.337
06		500 PPB AR16	10/28/08	1231	26081134	3.117	4599857	12.337
07		AR1660 ICV	10/28/08	1248	25553809	3.121	4593694	12.337
08		250 PPB AR12	10/28/08	1306	25250758	3.115	4468554	12.337
09		250 PPB AR12	10/28/08	1323	25573917	3.114	4411965	12.338
10		250 PPB AR12	10/28/08	1340	25108701	3.115	4489688	12.337
11		250 PPB AR21	10/28/08	1358	24609248	3.117	4502012	12.338
12		250 PPB AR32	10/28/08	1415	25475340	3.115	4499460	12.338
13		AR1254	10/29/08	2335	27249480	3.123	4847013	12.339
14		AR1660	10/29/08	2352	28526815	3.122	5187267	12.338
15	NV61MBS1	NV61MBS1	10/30/08	0226	26766117	3.121	4882824	12.338
16	NV61LCSS1	NV61LCSS1	10/30/08	0243	26254340	3.121	4700199	12.338
17	EB-SE05-A-08	NV61A	10/30/08	0300	23913777	3.120	4569400	12.337
18		AR1248	10/30/08	0351	27608583	3.122	4964235	12.337
19		AR1660	10/30/08	0408	28715605	3.125	5444087	12.338

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- 0.1 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

PCB Analysis
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NV61

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: EB-SE05-A-081021
SAMPLE

Lab Sample ID: NV61A
LIMS ID: 08-28611
Matrix: Sediment
Data Release Authorized:
Reported: 11/06/08

QC Report No: NV61-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/21/08
Date Received: 10/21/08

Date Extracted: 10/27/08
Date Analyzed: 10/30/08 03:00
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 25.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.8	< 9.8 U
53469-21-9	Aroclor 1242	9.8	< 9.8 U
12672-29-6	Aroclor 1248	9.8	< 9.8 U
11097-69-1	**Aroclor 1254**	**9.8**	**40**
11096-82-5	**Aroclor 1260**	**9.8**	**20**
11104-28-2	Aroclor 1221	9.8	< 9.8 U
11141-16-5	Aroclor 1232	9.8	< 9.8 U
37324-23-5	Aroclor 1262	9.8	< 9.8 U
11100-14-4	Aroclor 1268	9.8	< 9.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	105%
Tetrachlorometaxylene	102%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081028.B/1029-1.b/1029B062.d
Data file 2: 20081028.B/1029-2.b/1029B062.d
Method: /chem2/ecd5.i/20081028.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: NV61A
Client ID:
Injection Date: 30-OCT-2008 03:00
Report Date: 11/06/2008 09:57
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.853	0.007	11951310	4.995	0.006	12083556	38.1	40.8	6.9	Tetrachloro-m-xylene
11.358	0.004	6939488	11.698	0.003	7537589	41.9	41.6	0.8	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	95.3	102.1
Decachlorobiphenyl	104.9	104.1

JK 11/06/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24393719	23264714	-4.6
Hexabromobiphenyl	5010762	5383341	7.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	25207774	23913777	-5.1
Hexabromobiphenyl	4413062	4569400	3.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	6.304	-0.008	405832	53.6	1	6.637	0.104	2151183	193.9
Aroclor-1016	2	6.688	0.001	338285	14.8	2	7.140	0.008	349194	15.1
Aroclor-1016	3	6.832	0.005	315739	29.9	3	7.356	0.031	268772	25.9
Aroclor-1016	4	6.898	-0.035	39961	6.1	4	7.895	0.000	1414266	199.9
Total Col1Ave (4 peaks):					26.1	Total Col2Ave (4 peaks):				108.7 RPD = 123*
Corrected Ave (3 peaks):					16.9	Corrected Ave (3 peaks):				78.3 RPD = 129*
Aroclor-1221	1	5.109	-0.063	182820	53.6	1	5.593	0.013	180834	54.6
Aroclor-1221	2	5.339	0.009	120524	53.0	2	5.875	0.071	245881	144.9
Aroclor-1221	3	5.445	0.021	150262	17.9	3	---			0.0
Aroclor-1221	NS	---			----	4	7.140	-0.003	349194	165.3
Total Col1Ave (3 peaks):					41.5	Total Col2Ave (3 peaks):				121.6 RPD = 98*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	5.445	0.021	150262	20.7	1	5.875	-0.033	245881	36.1
Aroclor-1232	2	6.304	-0.009	405832	111.8	2	---			0.0
Aroclor-1232	3	6.688	0.003	338285	32.2	3	7.140	0.000	349194	34.3
Aroclor-1232	4	6.832	0.006	315739	63.1	4	7.356	0.020	268772	57.9
Total Col1Ave (4 peaks):					57.0	Total Col2Ave (3 peaks):				42.7 RPD = 29
Corrected Ave (3 peaks):					38.7	Corrected Ave: < 3 Peaks				
Aroclor-1242	1	6.304	-0.011	405832	58.7	1	---			0.0
Aroclor-1242	2	6.688	-0.002	338285	16.7	2	7.140	0.006	349194	16.6
Aroclor-1242	3	6.832	0.004	315739	32.7	3	7.356	0.028	268772	26.7
Aroclor-1242	4	7.569	-0.002	1259788	144.0	4	7.895	-0.001	1414266	211.0
Total Col1Ave (4 peaks):					63.0	Total Col2Ave (3 peaks):				84.8 RPD = 29
Corrected Ave (3 peaks):					36.0	Corrected Ave: < 3 Peaks				
Aroclor-1248	1	6.688	0.008	338285	25.8	1	7.140	0.010	349194	25.7
Aroclor-1248	2	7.139	0.004	1609195	172.1	2	7.537	0.004	2436143	256.1
Aroclor-1248	3	7.569	0.000	1259788	97.8	3	7.895	0.001	1414266	130.9
Aroclor-1248	4	7.928	0.004	4992347	228.8	4	8.249	-0.006	1607553	100.0
Total Col1Ave (4 peaks):					131.1	Total Col2Ave (4 peaks):				128.2 RPD = 2
Corrected Ave (3 peaks):					98.6	Corrected Ave (3 peaks):				85.5 RPD = 14
Aroclor-1254	1	8.171	0.006	6723232	376.0	1	8.475	0.004	6109261	365.4
Aroclor-1254	2	8.461	0.002	4763402	421.5	2	8.874	0.003	3146426	283.1
Aroclor-1254	3	8.565	0.003	10920546	508.5	3	8.985	0.004	9310367	389.4
Aroclor-1254	4	8.813	-0.006	7552282	354.6	4	9.160	0.005	8881447	358.2
Aroclor-1254	5	9.087	0.001	4836556	400.4	5	9.543	0.002	5688427	398.1
Total Col1Ave (5 peaks):					412.2	Total Col2Ave (5 peaks):				358.8 RPD = 14
Corrected Ave (4 peaks):					388.1	Corrected Ave (4 peaks):				349.0 RPD = 11
Aroclor-1260	1	9.461	0.002	2166945	172.1	1	9.293	0.001	5662413	231.9
Aroclor-1260	2	9.685	0.003	1895125	158.4	2	10.058	0.006	3897857	277.7
Aroclor-1260	3	9.926	0.001	4110618	152.6	3	10.218	0.002	5315515	164.2
Aroclor-1260	4	10.204	0.001	1990604	146.1	4	10.614	0.001	2438390	132.6
Aroclor-1260	5	10.324	0.002	942045	133.4	NS	---			----
Total Col1Ave (5 peaks):					152.5	Total Col2Ave (4 peaks):				201.6 RPD = 28
Corrected Ave (4 peaks):					147.6	Corrected Ave (3 peaks):				176.2 RPD = 18
Aroclor-1262	1	9.685	0.002	1895125	114.7	1	10.058	0.005	3897857	198.8
Aroclor-1262	2	9.926	0.000	4110618	113.4	2	10.218	0.000	5315515	117.2
Aroclor-1262	3	10.204	0.000	1990604	174.8	3	10.568	0.002	1328422	76.6
Aroclor-1262	4	10.324	0.002	942045	60.3	4	10.614	-0.001	2438390	97.8
Aroclor-1262	5	10.755	0.001	1122739	105.5	5	11.081	0.001	1188508	114.5
Total Col1Ave (5 peaks):					113.8	Total Col2Ave (5 peaks):				121.0 RPD = 6
Corrected Ave (4 peaks):					98.5	Corrected Ave (4 peaks):				101.5 RPD = 3
Aroclor-1268	1	10.273	0.002	885585	20.5	1	10.568	0.002	1328422	27.8
Aroclor-1268	2	10.324	0.002	942045	23.6	2	10.614	0.000	2438390	57.4
Aroclor-1268	3	10.593	-0.002	668752	21.6	3	10.876	-0.004	142398	4.5
Aroclor-1268	4	11.101	0.015	669794	9.6	4	11.409	-0.001	225857	3.3
Total Col1Ave (4 peaks):					18.8	Total Col2Ave (4 peaks):				23.2 RPD = 21

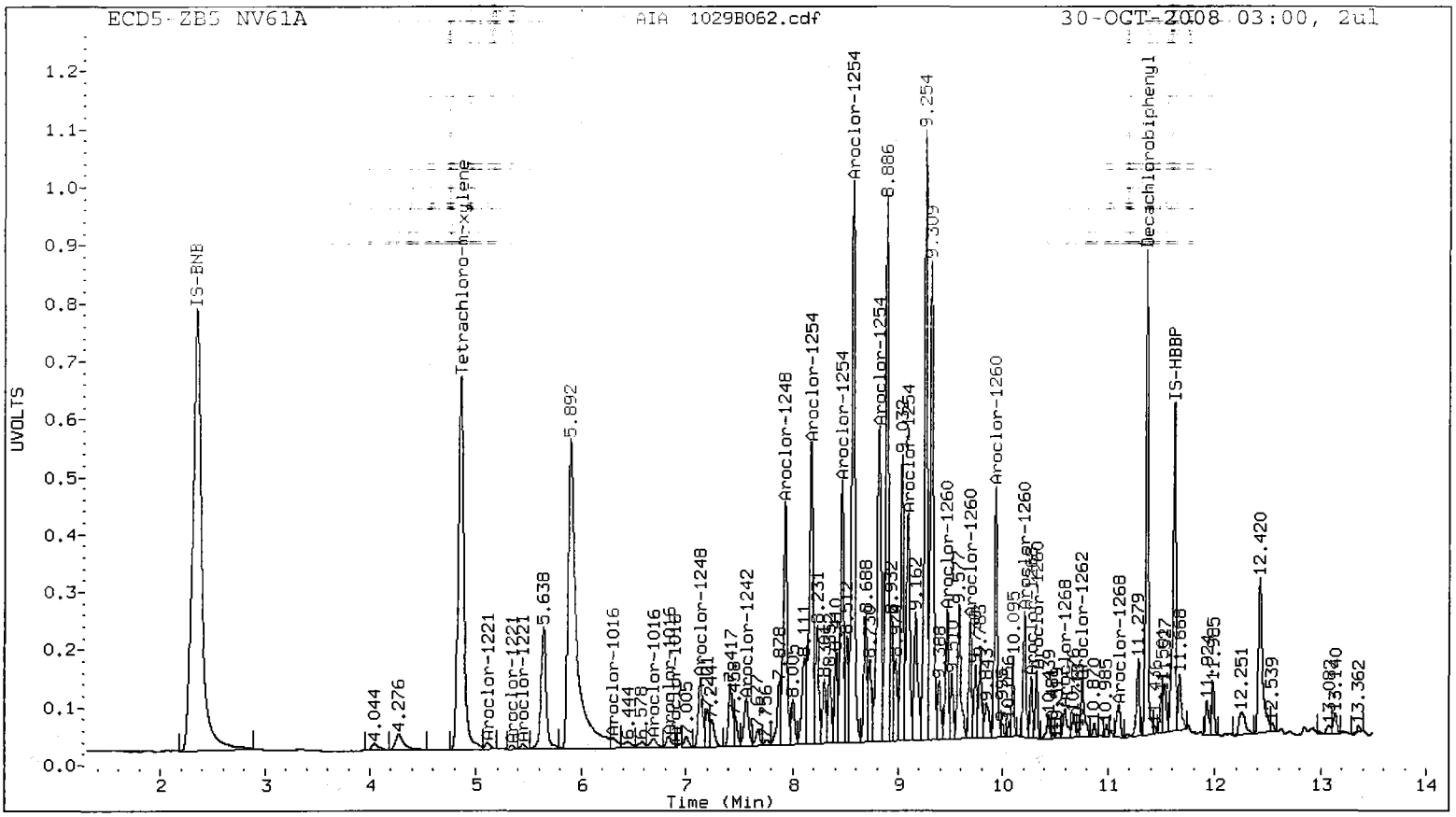
Corrected Ave (3 peaks): 11.3 Corrected Ave (3 peaks): 11.9 RPD = 37

Total PCB Area Col1 (4.947 - 11.254) = 148883569 Col1 Total PCB = 0.9 ppm*

Total PCB Area Col2 (5.088 - 11.595) = 152619872 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660: 0.25ppm in Ical

PCB-Form 10 Mod.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UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1016
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP
4.044
4.276
5.638
5.892
6.444
6.578
7.241
7.417
7.828
8.005
8.111
8.231
8.512
8.730
8.886
9.162
9.254
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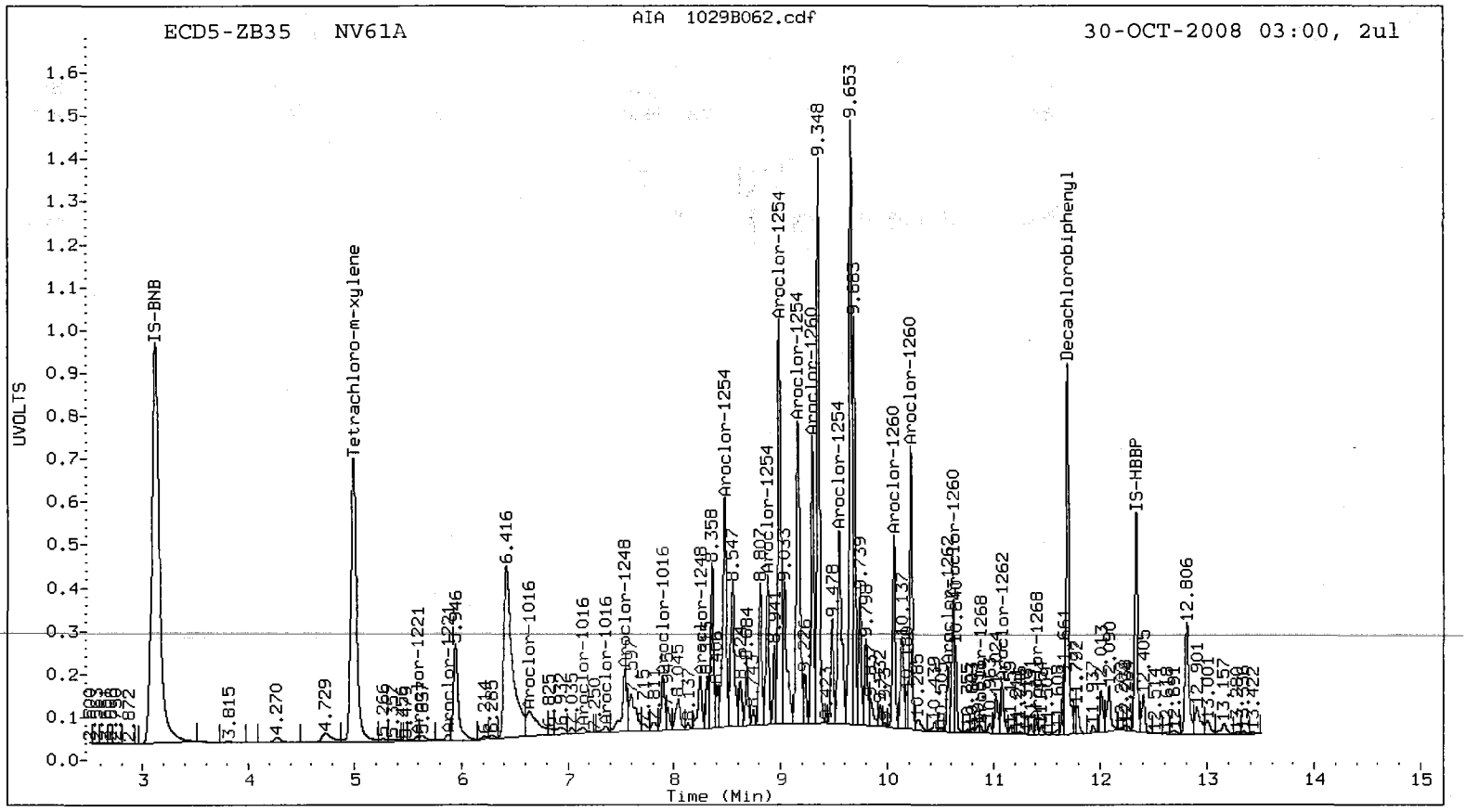
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Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1016
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP
3.815
4.270
4.729
5.946
6.416
8.358
8.547
8.807
8.941
9.033
9.226
9.348
9.478
9.653
9.663
9.739
9.799
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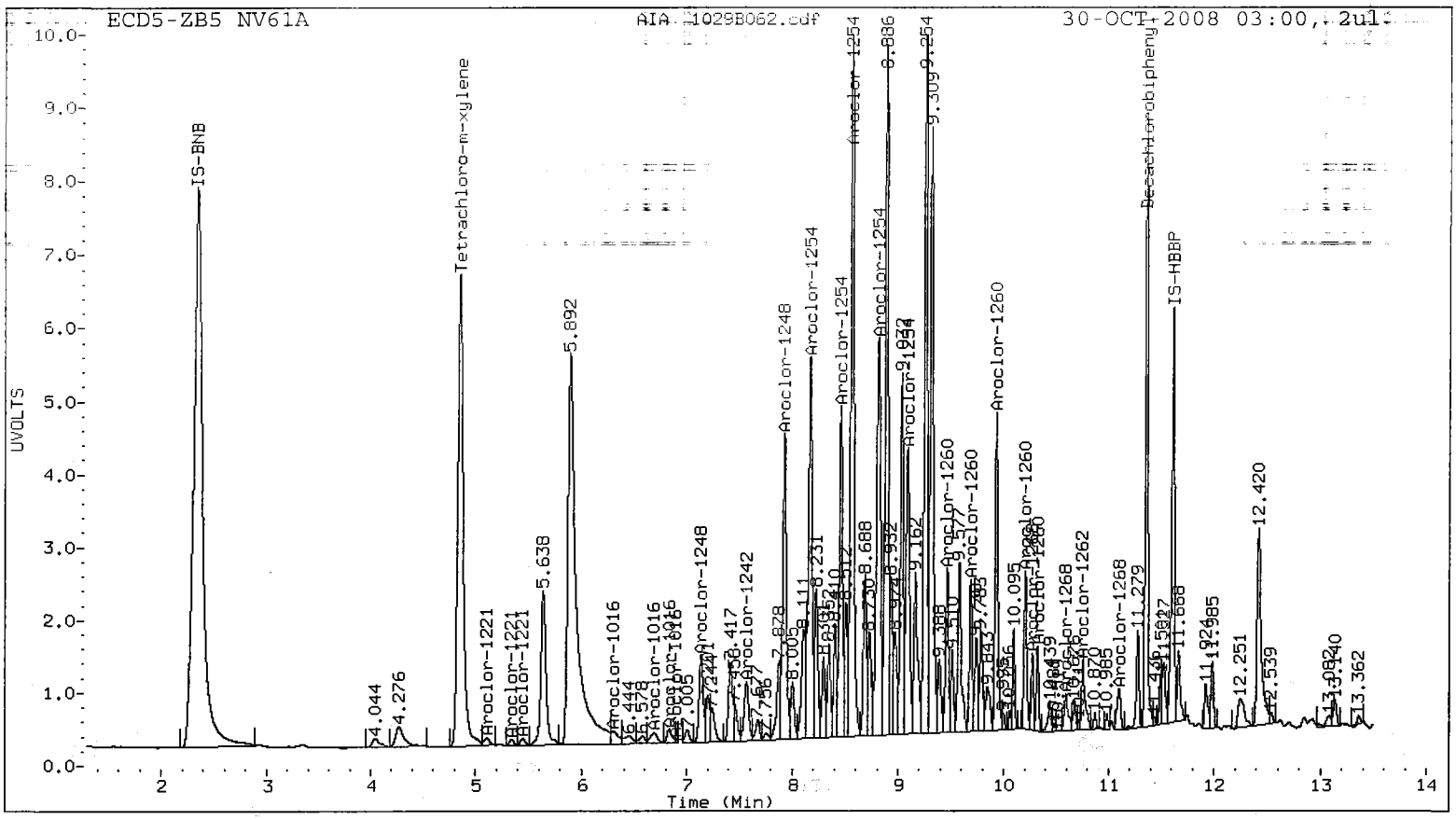
12.806
12.901
13.157
13.298
13.422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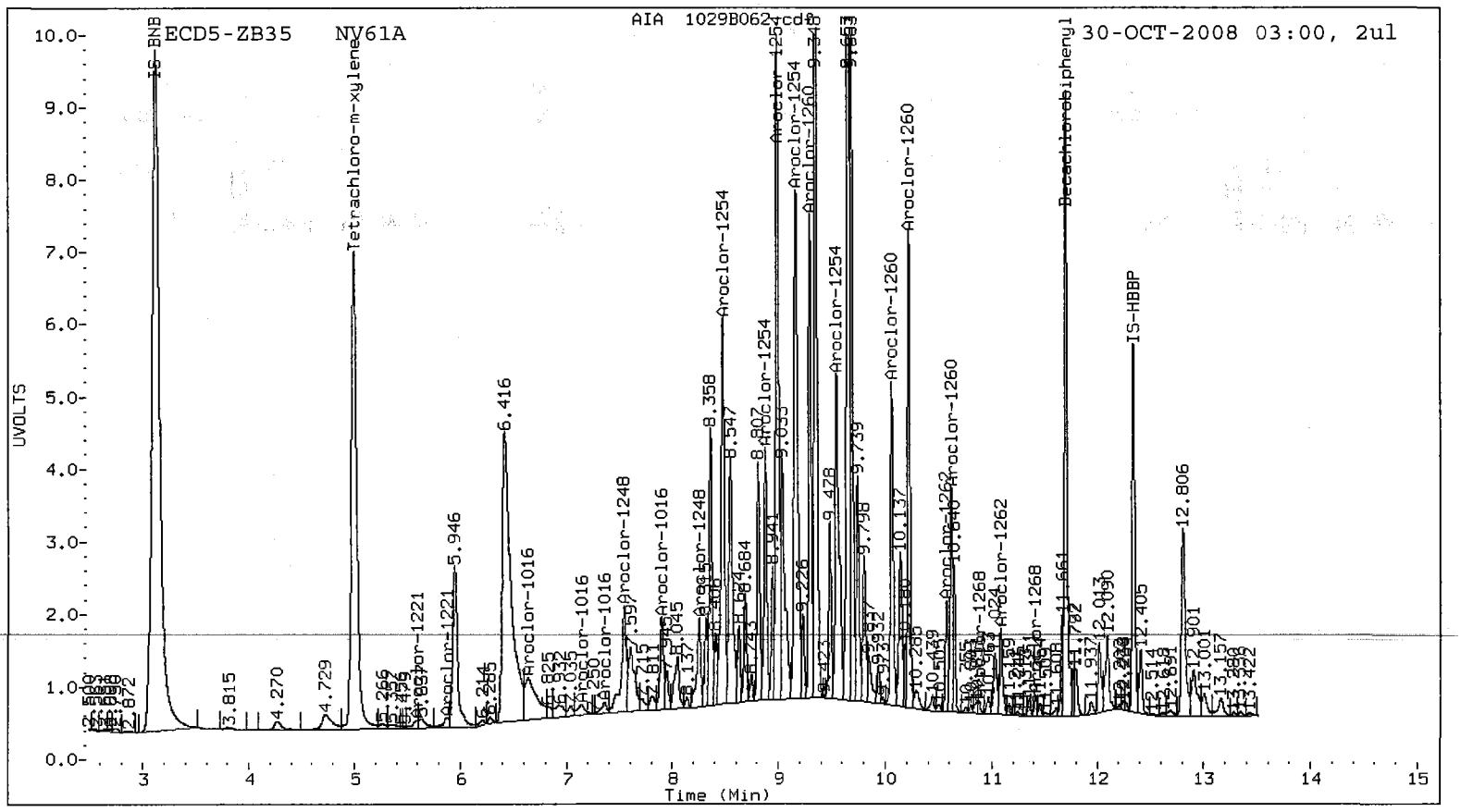
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Decachlorobiphenyl
IS-HBBP
Aroclor-1221
Aroclor-1242
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1016
Aroclor-1262
Aroclor-1268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AIA 1029B062.cdf
30-OCT-2008 03:00, 2ul
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Decachlorobiphenyl
IS-HBBP
Aroclor-1221
Aroclor-1242
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1016
Aroclor-1262
Aroclor-1268

PCB Analysis
Standard Raw Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NV61

prepared
by

Analytical Resources, Inc.

6F

8082 INITIAL CALIBRATION OF AROCLOR 1016/1260

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL, LLC.

ARI Job No.: NV61 Project: EDDON BOATYARD

GC Column: ZB5 Instrument ID: ECD5

Calibration Date: 10/28/08

SURROGATES

	RT WIN	LVL1	LVL2	LVL3	LVL4	LVL5	MEAN	%RSD
TCX	4.75- 4.95	1.3063	1.0889	1.0397	1.0093	0.9443	1.0777	12.8
DCB	11.25-11.45	4.2648	2.9759	2.6757	2.4944	2.4267	2.9675	0.9978

Aroclor-1016 Peak	RT WIN	LVL1 .02	LVL2 0.1	LVL3 .25	LVL4 0.5	LVL5 1.0	MEAN	%RSD
1	6.21- 6.41	0.0296	0.0268	0.0263	0.0246	0.0229	0.0260	9.6
2	6.59- 6.79	0.0859	0.0822	0.0772	0.0744	0.0726	0.0785	7.0
3	6.73- 6.93	0.0415	0.0397	0.0366	0.0334	0.0305	0.0363	12.4
4	6.83- 7.03	0.0244	0.0231	0.0231	0.0218	0.0212	0.0227	5.6

AROCLOR AVERAGE %RSD = 8.7

Aroclor-1260 Peak	RT WIN	LVL1 .02	LVL2 0.1	LVL3 .25	LVL4 0.5	LVL5 1.0	MEAN	%RSD
1	9.36- 9.56	0.2161	0.2022	0.1828	0.1700	0.1645	0.1871	11.6
2	9.58- 9.78	0.2064	0.1937	0.1731	0.1607	0.1549	0.1778	12.3
3	9.83-10.03	0.4148	0.4301	0.3966	0.3756	0.3842	0.4003	5.6
4	10.10-10.30	0.2332	0.2138	0.1949	0.1856	0.1851	0.2025	10.2
5	10.22-10.42	0.1174	0.1138	0.1021	0.0969	0.0943	0.1049	9.7

AROCLOR AVERAGE %RSD = 9.9

6F

8082 INITIAL CALIBRATION OF AROCLOR 1016/1260

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL, LLC.

ARI Job No.: NV61 Project: EDDON BOATYARD

GC Column: ZB35 Instrument ID: ECD5

Calibration Date: 10/28/08

SURROGATES

	RT WIN	LVL1	LVL2	LVL3	LVL4	LVL5	MEAN	%RSD
TCX	4.89- 5.09	1.0438	0.9932	0.9924	0.9821	0.9371	0.9897	3.8
DCB	11.59-11.79	4.0896	3.1817	2.9380	2.8520	2.7905	3.1703	16.9

Aroclor-1016 Peak	RT WIN	LVL1 .02	LVL2 0.1	LVL3 .25	LVL4 0.5	LVL5 1.0	MEAN	%RSD
1	6.43- 6.63	0.0375	0.0393	0.0380	0.0368	0.0339	0.0371	5.4
2	7.03- 7.23	0.0668	0.0826	0.0816	0.0789	0.0760	0.0772	8.2
3	7.23- 7.43	0.0303	0.0387	0.0388	0.0360	0.0298	0.0347	12.7
4	7.80- 8.00	0.0231	0.0243	0.0251	0.0238	0.0219	0.0237	5.1

AROCLOR AVERAGE %RSD = 7.9

Aroclor-1260 Peak	RT WIN	LVL1 .02	LVL2 0.1	LVL3 .25	LVL4 0.5	LVL5 1.0	MEAN	%RSD
1	9.19- 9.39	0.4730	0.4621	0.4326	0.4022	0.3677	0.4275	10.1
2	9.95-10.15	0.2696	0.2628	0.2443	0.2299	0.2218	0.2457	8.4
3	10.12-10.32	0.6075	0.6092	0.5738	0.5266	0.5166	0.5667	7.7
4	10.51-10.71	0.3662	0.3358	0.3093	0.3010	0.2978	0.3220	9.0

AROCLOR AVERAGE %RSD = 8.8

6G

8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL, LLC.

ARI Job No.: NV61 Project: EDDON BOATYARD

GC Column: ZB5 Instrument ID: ECD5

Calibration Date: 10/28/08

Aroclor-1221			
Peak	RT	RT WIN	Cal Factor
1	5.172	5.07- 5.27	0.01174
2	5.330	5.23- 5.43	0.00782
3	5.424	5.32- 5.52	0.02879

Aroclor-1232			
Peak	RT	RT WIN	Cal Factor
1	5.424	5.32- 5.52	0.02501
2	6.313	6.21- 6.41	0.01248
3	6.686	6.59- 6.79	0.03610
4	6.827	6.73- 6.93	0.01720

Aroclor-1242			
Peak	RT	RT WIN	Cal Factor
1	6.315	6.21- 6.41	0.02379
2	6.690	6.59- 6.79	0.06966
3	6.829	6.73- 6.93	0.03324
4	7.571	7.47- 7.67	0.03008

Aroclor-1248			
Peak	RT	RT WIN	Cal Factor
1	6.680	6.58- 6.78	0.04516
2	7.135	7.03- 7.23	0.03215
3	7.569	7.47- 7.67	0.04429
4	7.925	7.82- 8.02	0.07505

6G

8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL, LLC.

ARI Job No.: NV61 Project: EDDON BOATYARD

GC Column: ZB5 Instrument ID: ECD5

Calibration Date: 10/28/08

Aroclor-1254			
Peak	RT	RT WIN	Cal Factor
1	8.166	8.07- 8.27	0.06149
2	8.459	8.36- 8.56	0.03886
3	8.562	8.46- 8.66	0.07384
4	8.819	8.72- 8.92	0.07324
5	9.087	8.99- 9.19	0.04154

Aroclor-1262			
Peak	RT	RT WIN	Cal Factor
1	9.683	9.58- 9.78	0.24545
2	9.926	9.83-10.03	0.53865
3	10.204	10.10-10.30	0.16927
4	10.321	10.22-10.42	0.23202
5	10.754	10.65-10.85	0.15809

Aroclor-1268			
Peak	RT	RT WIN	Cal Factor
1	10.271	10.17-10.37	0.64062
2	10.321	10.22-10.42	0.59249
3	10.596	10.50-10.70	0.46005
4	11.086	10.99-11.19	1

6G

8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL, LLC.

ARI Job No.: NV61 Project: EDDON BOATYARD

GC Column: ZB35 Instrument ID: ECD5

Calibration Date: 10/28/08

Aroclor-1221			
Peak	RT	RT WIN	Cal Factor
1	5.580	5.48- 5.68	0.01108
2	5.804	5.70- 5.90	0.00568
3	5.909	5.81- 6.01	0.02512
4	7.143	7.04- 7.24	0.00707

Aroclor-1232			
Peak	RT	RT WIN	Cal Factor
1	5.908	5.81- 6.01	0.02278
2	6.534	6.43- 6.63	0.01645
3	7.140	7.04- 7.24	0.03409
4	7.336	7.24- 7.44	0.01554

Aroclor-1242			
Peak	RT	RT WIN	Cal Factor
1	6.535	6.44- 6.64	0.03251
2	7.134	7.03- 7.23	0.07028
3	7.329	7.23- 7.43	0.03371
4	7.897	7.80- 8.00	0.02242

Aroclor-1248			
Peak	RT	RT WIN	Cal Factor
1	7.130	7.03- 7.23	0.04537
2	7.533	7.43- 7.63	0.03183
3	7.894	7.79- 7.99	0.03615
4	8.255	8.16- 8.36	0.05378

6G

8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL, LLC.

ARI Job No.: NV61 Project: EDDON BOATYARD

GC Column: ZB35 Instrument ID: ECD5

Calibration Date: 10/28/08

Aroclor-1254			
Peak	RT	RT WIN	Cal Factor
1	8.471	8.37- 8.57	0.05593
2	8.871	8.77- 8.97	0.03718
3	8.981	8.88- 9.08	0.07999
4	9.155	9.05- 9.25	0.08294
5	9.540	9.44- 9.64	0.04780

Aroclor-1262			
Peak	RT	RT WIN	Cal Factor
1	10.054	9.95-10.15	0.34320
2	10.218	10.12-10.32	0.79426
3	10.566	10.47-10.67	0.30355
4	10.615	10.51-10.71	0.43637
5	11.080	10.98-11.18	0.18167

Aroclor-1268			
Peak	RT	RT WIN	Cal Factor
1	10.566	10.47-10.67	0.83732
2	10.615	10.51-10.71	0.74404
3	10.880	10.78-10.98	0.55466
4	11.410	11.31-11.51	1

0535

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-OCT-2008 11:22
End Cal Date : 28-OCT-2008 14:15
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd5.i/20081028.B/PCB1.m
Cal Date : 29-Oct-2008 10:13 jrains

Calibration File Names:
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Level 2: /chem2/ecd5.i/20081028.B/ical-1.b/1028B015.d
Level 3: /chem2/ecd5.i/20081028.B/ical-1.b/1028B012.d
Level 4: /chem2/ecd5.i/20081028.B/ical-1.b/1028B016.d
Level 5: /chem2/ecd5.i/20081028.B/ical-1.b/1028B014.d
Level 7: /chem2/ecd5.i/20081028.B/ical-1.b/1028B022.d

Compound	20 Level 1	100 Level 2	250 Level 3	500 Level 4	1000 Level 5	250 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
2 Aroclor-1221(1)	+++++	+++++	+++++	+++++	+++++	0.01174	AVRG		0.01174		0.000e+00
(2)	+++++	+++++	+++++	+++++	+++++	0.00782	AVRG		0.00782		0.000e+00
(3)	+++++	+++++	+++++	+++++	+++++	0.02879	AVRG		0.02879		0.000e+00
3 Aroclor-1242(1)	+++++	+++++	+++++	+++++	+++++	0.02379	AVRG		0.02379		0.000e+00
(2)	+++++	+++++	+++++	+++++	+++++	0.06966	AVRG		0.06966		0.000e+00
(3)	+++++	+++++	+++++	+++++	+++++	0.03324	AVRG		0.03324		0.000e+00
(4)	+++++	+++++	+++++	+++++	+++++	0.03008	AVRG		0.03008		0.000e+00
4 Aroclor-1232(1)	+++++	+++++	+++++	+++++	+++++	0.02501	AVRG		0.02501		0.000e+00
(2)	+++++	+++++	+++++	+++++	+++++	0.01248	AVRG		0.01248		0.000e+00
(3)	+++++	+++++	+++++	+++++	+++++	0.03610	AVRG		0.03610		0.000e+00
(4)	+++++	+++++	+++++	+++++	+++++	0.01720	AVRG		0.01720		0.000e+00
7 Aroclor-1016(1)	0.02958	0.02681	0.02635	0.02458	0.02290	+++++	AVRG		0.02605		9.63186
(2)	0.08589	0.08216	0.07724	0.07437	0.07260	+++++	AVRG		0.07845		7.02295
(3)	0.04155	0.03966	0.03662	0.03337	0.03050	+++++	AVRG		0.03634		12.39697

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-OCT-2008 11:22
End Cal Date : 28-OCT-2008 14:15
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd5.i/20081028.B/PCB1.m
Cal Date : 29-Oct-2008 10:13 jrains

Compound	20 Level 1	100 Level 2	250 Level 3	500 Level 4	1000 Level 5	250 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
(4)	0.02441	0.02308	0.02307	0.02179	0.02115	+++++	AVRG		0.02270		5.58336
6 Aroclor-1248 (1)	+++++	+++++	+++++	+++++	+++++	0.04516	AVRG		0.04516		0.000e+00
(2)	+++++	+++++	+++++	+++++	+++++	0.03215	AVRG		0.03215		0.000e+00
(3)	+++++	+++++	+++++	+++++	+++++	0.04429	AVRG		0.04429		0.000e+00
(4)	+++++	+++++	+++++	+++++	+++++	0.07505	AVRG		0.07505		0.000e+00
8 Aroclor-1254 (1)	+++++	+++++	+++++	+++++	+++++	0.06149	AVRG		0.06149		0.000e+00
(2)	+++++	+++++	+++++	+++++	+++++	0.03886	AVRG		0.03886		0.000e+00
(3)	+++++	+++++	+++++	+++++	+++++	0.07384	AVRG		0.07384		0.000e+00
(4)	+++++	+++++	+++++	+++++	+++++	0.07324	AVRG		0.07324		0.000e+00
(5)	+++++	+++++	+++++	+++++	+++++	0.04154	AVRG		0.04154		0.000e+00
9 Aroclor-1260 (1)	0.21615	0.20219	0.18278	0.17001	0.16452	+++++	AVRG		0.18713		11.62249
(2)	0.20644	0.19371	0.17308	0.16069	0.15487	+++++	AVRG		0.17776		12.30638
(3)	0.41484	0.43010	0.39664	0.37563	0.38423	+++++	AVRG		0.40029		5.55722
(4)	0.23321	0.21383	0.19493	0.18558	0.18507	+++++	AVRG		0.20252		10.23589
(5)	0.11738	0.11378	0.10215	0.09690	0.09431	+++++	AVRG		0.10490		9.74947
10 Aroclor-1262 (1)	+++++	+++++	+++++	+++++	+++++	0.24545	AVRG		0.24545		0.000e+00
(2)	+++++	+++++	+++++	+++++	+++++	0.53865	AVRG		0.53865		0.000e+00
(3)	+++++	+++++	+++++	+++++	+++++	0.16927	AVRG		0.16927		0.000e+00
(4)	+++++	+++++	+++++	+++++	+++++	0.23202	AVRG		0.23202		0.000e+00
(5)	+++++	+++++	+++++	+++++	+++++	0.15809	AVRG		0.15809		0.000e+00
11 Aroclor-1268 (1)	+++++	+++++	+++++	+++++	+++++	0.64062	AVRG		0.64062		0.000e+00
(2)	+++++	+++++	+++++	+++++	+++++	0.59249	AVRG		0.59249		0.000e+00

0005

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-OCT-2008 11:22
End Cal Date : 28-OCT-2008 14:15
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd5.i/20081028.B/PCB1.m
Cal Date : 29-Oct-2008 10:13 jrains

Compound	20 Level 1	100 Level 2	250 Level 3	500 Level 4	1000 Level 5	250 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
(3)	+++++	+++++	+++++	+++++	+++++	0.46005	AVRG		0.46005		0.000e+00
(4)	+++++	+++++	+++++	+++++	+++++	1.03493	AVRG		1.03493		0.000e+00
42 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
43 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
44 2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
46 4,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
47 4,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
48 4,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00
1 Tetrachloro-m-xylene	1.30633	1.08889	1.03967	1.00930	0.94428	+++++	AVRG		1.07769		12.81727
13 Decachlorobiphenyl	426129	1515422	3351827	6491781	12641806	+++++	LINR	0.000e+00	2.45847		0.99781

0056

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-OCT-2008 11:22
End Cal Date : 28-OCT-2008 14:15
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd5.i/20081028.B/PCB1.m
Cal Date : 29-Oct-2008 10:13 jrains

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Linear	Amt = b + Rsp/ml	Response

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-OCT-2008 11:22
End Cal Date : 28-OCT-2008 14:15
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd5.i/20081028.B/PCB2.m
Cal Date : 29-Oct-2008 09:27 jrains
Curve Type : Average

Calibration File Names:
Level 1: /chem2/ecd5.i/20081028.B/ical-2.b/1028B013.d
Level 2: /chem2/ecd5.i/20081028.B/ical-2.b/1028B015.d
Level 3: /chem2/ecd5.i/20081028.B/ical-2.b/1028B012.d
Level 4: /chem2/ecd5.i/20081028.B/ical-2.b/1028B016.d
Level 5: /chem2/ecd5.i/20081028.B/ical-2.b/1028B014.d
Level 7: /chem2/ecd5.i/20081028.B/ical-2.b/1028B022.d

Compound	20.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	250.000 Level 7	RRF	% RSD
1 Aroclor-1221(1)	+++++	+++++	+++++	+++++	+++++	0.01108	0.01108	0.000
(2)	+++++	+++++	+++++	+++++	+++++	0.00568	0.00568	0.000
(3)	+++++	+++++	+++++	+++++	+++++	0.02512	0.02512	0.000
(4)	+++++	+++++	+++++	+++++	+++++	0.00707	0.00707	0.000
4 Aroclor-1232(1)	+++++	+++++	+++++	+++++	+++++	0.02278	0.02278	0.000
(2)	+++++	+++++	+++++	+++++	+++++	0.01645	0.01645	0.000
(3)	+++++	+++++	+++++	+++++	+++++	0.03409	0.03409	0.000
(4)	+++++	+++++	+++++	+++++	+++++	0.01554	0.01554	0.000
3 Aroclor-1242(1)	+++++	+++++	+++++	+++++	+++++	0.03251	0.03251	0.000
(2)	+++++	+++++	+++++	+++++	+++++	0.07028	0.07028	0.000
(3)	+++++	+++++	+++++	+++++	+++++	0.03371	0.03371	0.000
(4)	+++++	+++++	+++++	+++++	+++++	0.02242	0.02242	0.000
6 Aroclor-1248(1)	+++++	+++++	+++++	+++++	+++++	0.04537	0.04537	0.000
(2)	+++++	+++++	+++++	+++++	+++++	0.03183	0.03183	0.000
(3)	+++++	+++++	+++++	+++++	+++++	0.03615	0.03615	0.000
(4)	+++++	+++++	+++++	+++++	+++++	0.05378	0.05378	0.000
7 Aroclor-1016(1)	0.03755	0.03927	0.03798	0.03685	0.03390	+++++	0.03711	5.390
(2)	0.06680	0.08258	0.08158	0.07891	0.07598	+++++	0.07717	8.213
(3)	0.03030	0.03873	0.03876	0.03604	0.02977	+++++	0.03472	12.731
(4)	0.02312	0.02435	0.02511	0.02384	0.02193	+++++	0.02367	5.127
8 Aroclor-1254(1)	+++++	+++++	+++++	+++++	+++++	0.05593	0.05593	0.000

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-OCT-2008 11:22
End Cal Date : 28-OCT-2008 14:15
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd5.i/20081028.B/PCB2.m
Cal Date : 29-Oct-2008 09:27 jrains
Curve Type : Average

Compound	20.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	250.000 Level 7	___ RRF	% RSD
(2)	+++++	+++++	+++++	+++++	+++++	0.03718	0.03718	0.000
(3)	+++++	+++++	+++++	+++++	+++++	0.07999	0.07999	0.000
(4)	+++++	+++++	+++++	+++++	+++++	0.08294	0.08294	0.000
(5)	+++++	+++++	+++++	+++++	+++++	0.04780	0.04780	0.000
10 Aroclor-1262(1)	+++++	+++++	+++++	+++++	+++++	0.34320	0.34320	0.000
(2)	+++++	+++++	+++++	+++++	+++++	0.79426	0.79426	0.000
(3)	+++++	+++++	+++++	+++++	+++++	0.30355	0.30355	0.000
(4)	+++++	+++++	+++++	+++++	+++++	0.43637	0.43637	0.000
(5)	+++++	+++++	+++++	+++++	+++++	0.18167	0.18167	0.000
9 Aroclor-1260(1)	0.47297	0.46213	0.43261	0.40222	0.36766	+++++	0.42752	10.137
(2)	0.26964	0.26284	0.24433	0.22990	0.22181	+++++	0.24571	8.362
(3)	0.60755	0.60916	0.57376	0.52656	0.51656	+++++	0.56672	7.715
(4)	0.36618	0.33577	0.30933	0.30096	0.29780	+++++	0.32201	8.960
11 Aroclor-1268(1)	+++++	+++++	+++++	+++++	+++++	0.83732	0.83732	0.000
(2)	+++++	+++++	+++++	+++++	+++++	0.74404	0.74404	0.000
(3)	+++++	+++++	+++++	+++++	+++++	0.55466	0.55466	0.000
(4)	+++++	+++++	+++++	+++++	+++++	1.20124	1.20124	0.000
41 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 4,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 4,4-DDD/2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 4,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 2 Tetrachloro-m-xylene	1.04380	0.99322	0.99240	0.98214	0.93711	+++++	0.98973	3.837
$ 13 Decachlorobiphenyl	4.08958	3.18169	2.93800	2.85200	2.79046	+++++	3.17034	16.874

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081028.B/ical-1.b/1028B011.d
Data file 2: 20081028.B/ical-2.b/1028B011.d
Method: /chem2/ecd5.i/20081028.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: IB
Client ID:
Injection Date: 28-OCT-2008 11:05
Report Date: 10/29/2008 10:27
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.830	0.040	11996954	4.961	-0.071	12467128	36.7	40.5	9.6	Tetrachloro-m-xylene
11.360	0.010	6337934	11.697	-0.001	6331145	42.0	36.6	13.8	Decachlorobiphenyl

Indicates RPD > 40%
Indicates Column 1 peak was manually integrated
Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	91.9	101.2
Decachlorobiphenyl	105.0	91.4

JK 10/29/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24393719	24235474	-0.6
Hexabromobiphenyl	5010762	4912201	-2.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	25207774	24906421	-1.2
Hexabromobiphenyl	4413062	4368394	-1.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

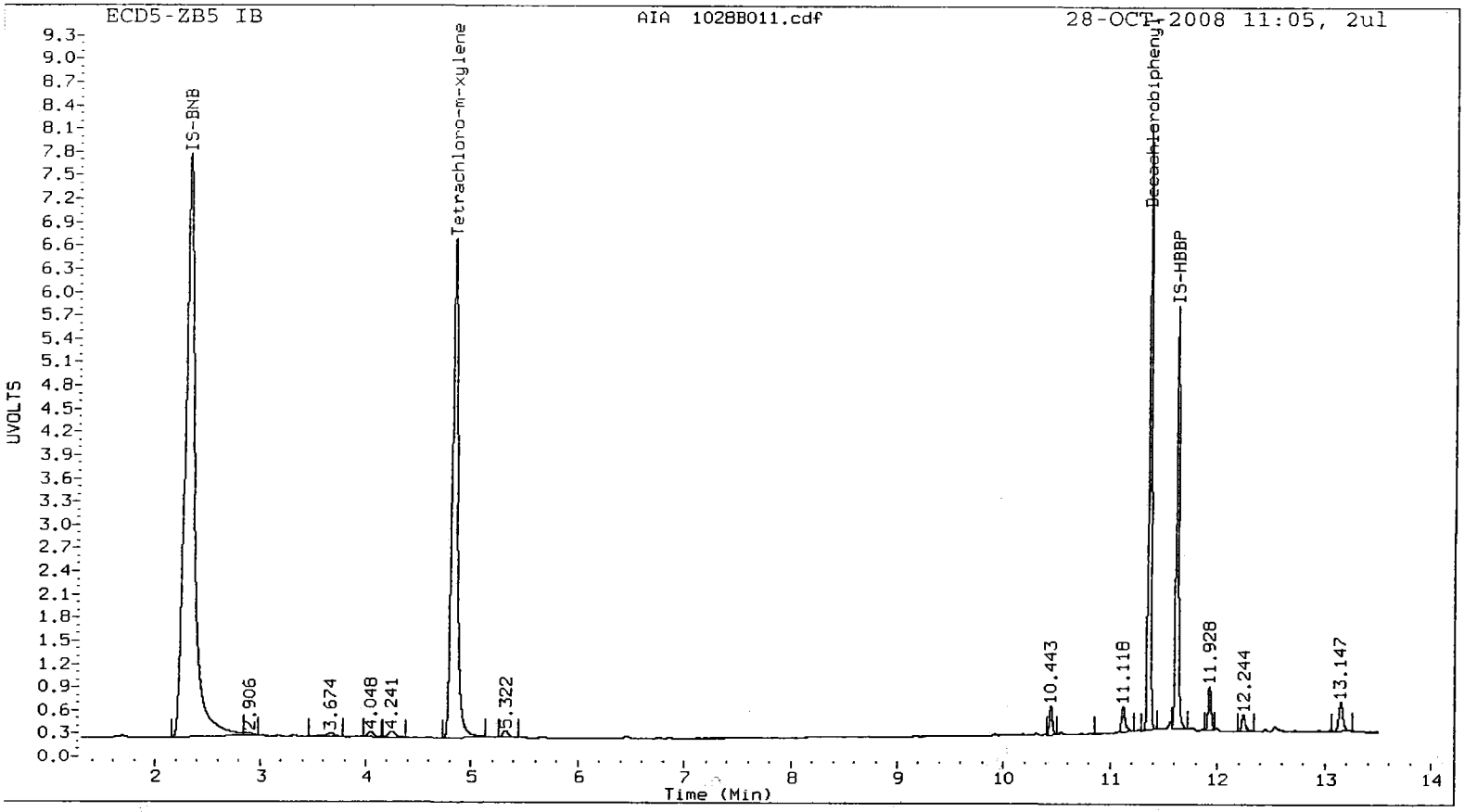
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	5.608	0.027	119128	34.5
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	5.935	0.026	28530	3.6
Aroclor-1221	NS	---			----	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	7.527	-0.007	10759	1.1
Aroclor-1248	3	---			0.0	3	7.903	0.009	14721	1.3
Aroclor-1248	4	---			0.0	4	8.225	-0.029	10488	0.6
	Col1Ave: <3 Quant Peaks					Col2Ave:		1.0		
Aroclor-1254	1	---			0.0	1	8.503	0.026	10287	0.6
Aroclor-1254	2	---			0.0	2	8.862	-0.014	36975	3.2
Aroclor-1254	3	---			0.0	3	9.037	0.051	31267	1.3
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	9.459	-0.086	22845	1.5
	Col1Ave: <3 Quant Peaks					Col2Ave:		1.6		
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	10.226	0.009	36892	1.2
Aroclor-1260	4	---			0.0	4	10.569	-0.046	13876	0.8
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	10.226	0.008	36892	0.9
Aroclor-1262	3	---			0.0	3	10.569	0.003	13876	0.8
Aroclor-1262	4	---			0.0	4	---			0.0
Aroclor-1262	5	---			0.0	5	11.028	-0.052	299169	30.2
	Col1Ave: <3 Quant Peaks					Col2Ave:		10.6		
Aroclor-1268	1	---			0.0	1	10.569	0.003	13876	0.3
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	10.862	-0.019	10194	0.3
Aroclor-1268	4	---			0.0	4	11.442	0.033	10553	0.2
	Col1Ave: <3 Quant Peaks					Col2Ave:		0.3		

Total PCB Area Col1 (4.889 - 11.250) = 837245 Col1 Total PCB = 0.0 ppm*

Total PCB Area Col2 (5.132 - 11.597) = 1829809 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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Decachlorobiphenyl
IS-HBBP
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11.118
11.928
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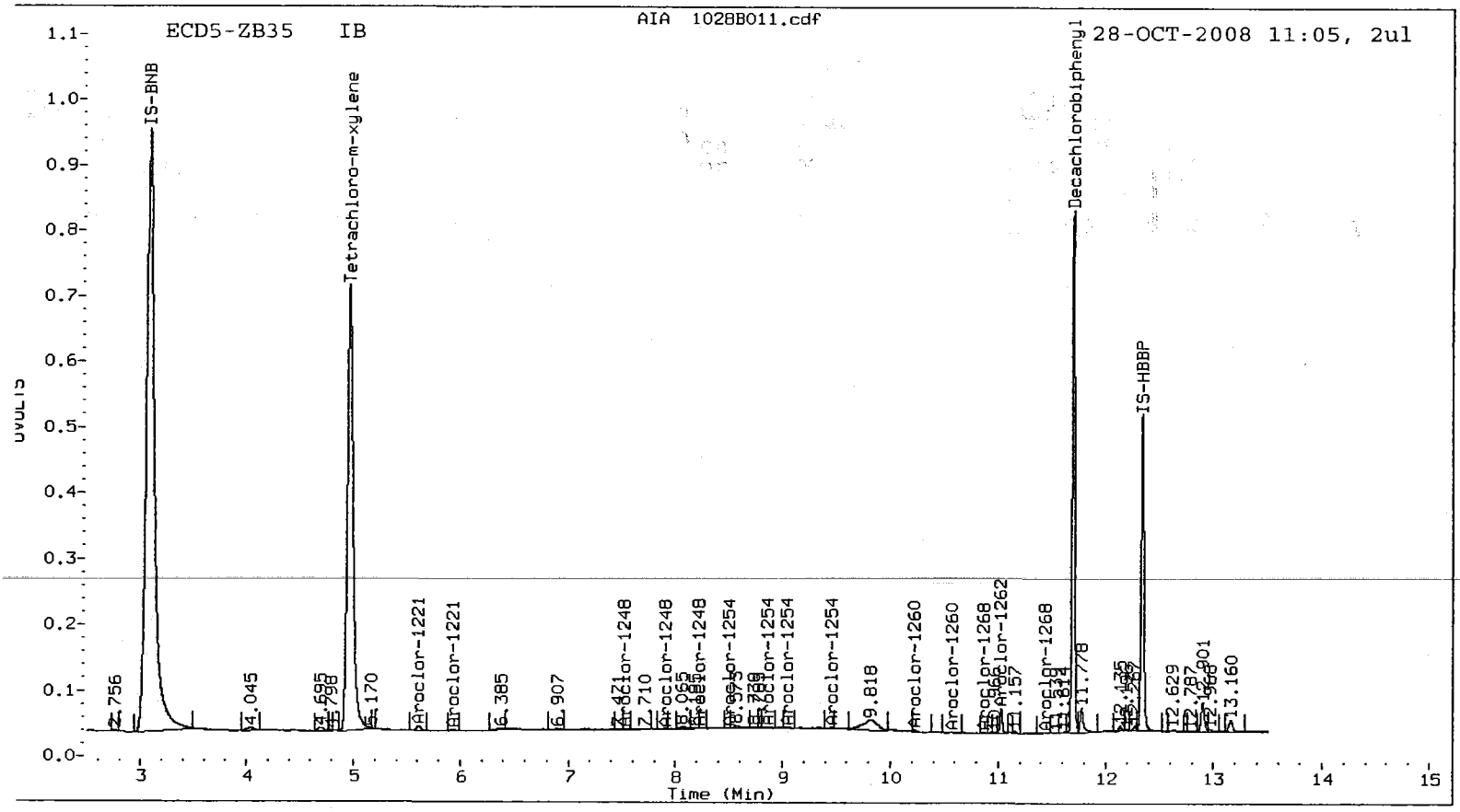
Time (Min)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Decachlorobiphenyl
IS-HBBP
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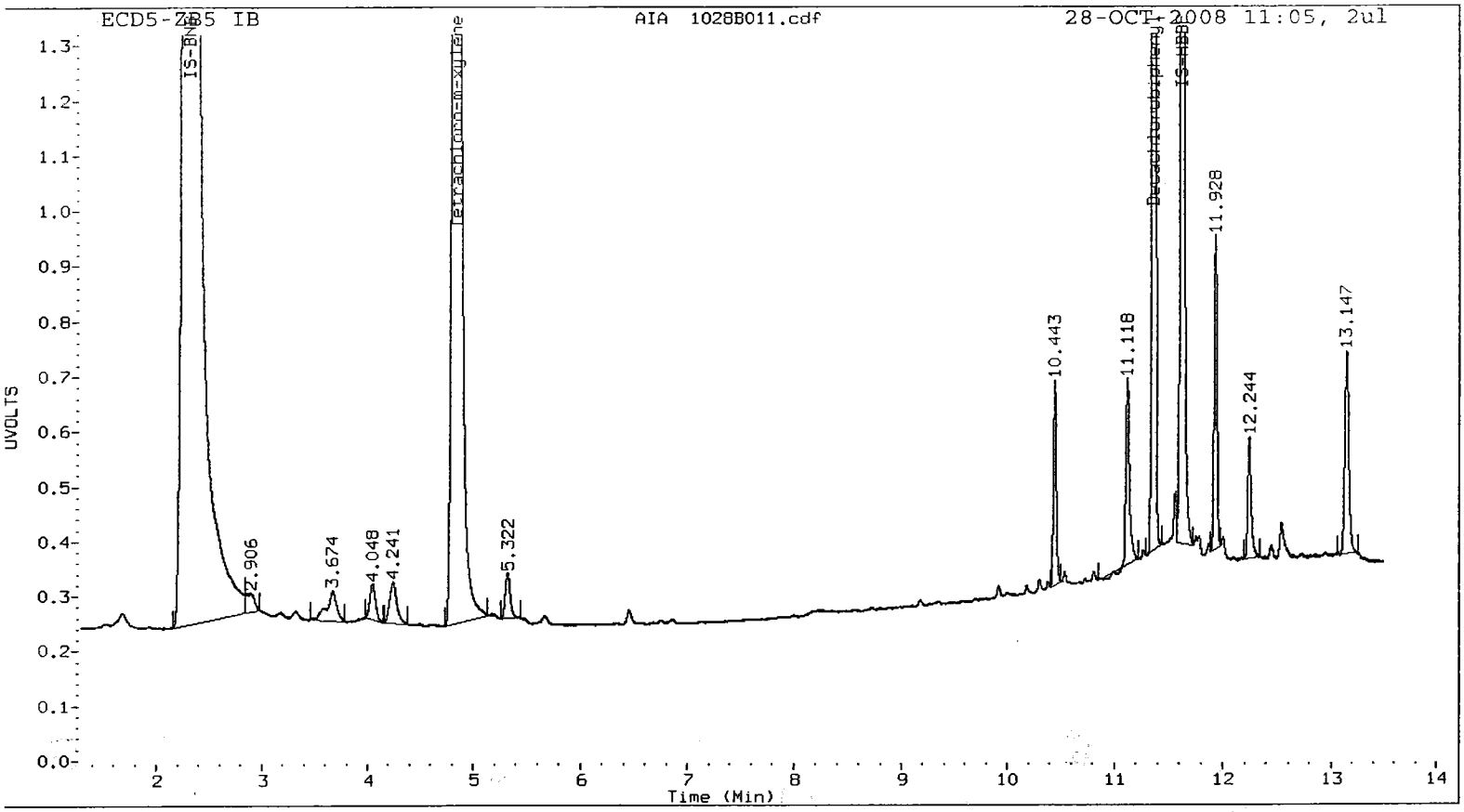
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Time (Min)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Tetrachloro-m-xylene
Decachlorobiphenyl
IS-HBB
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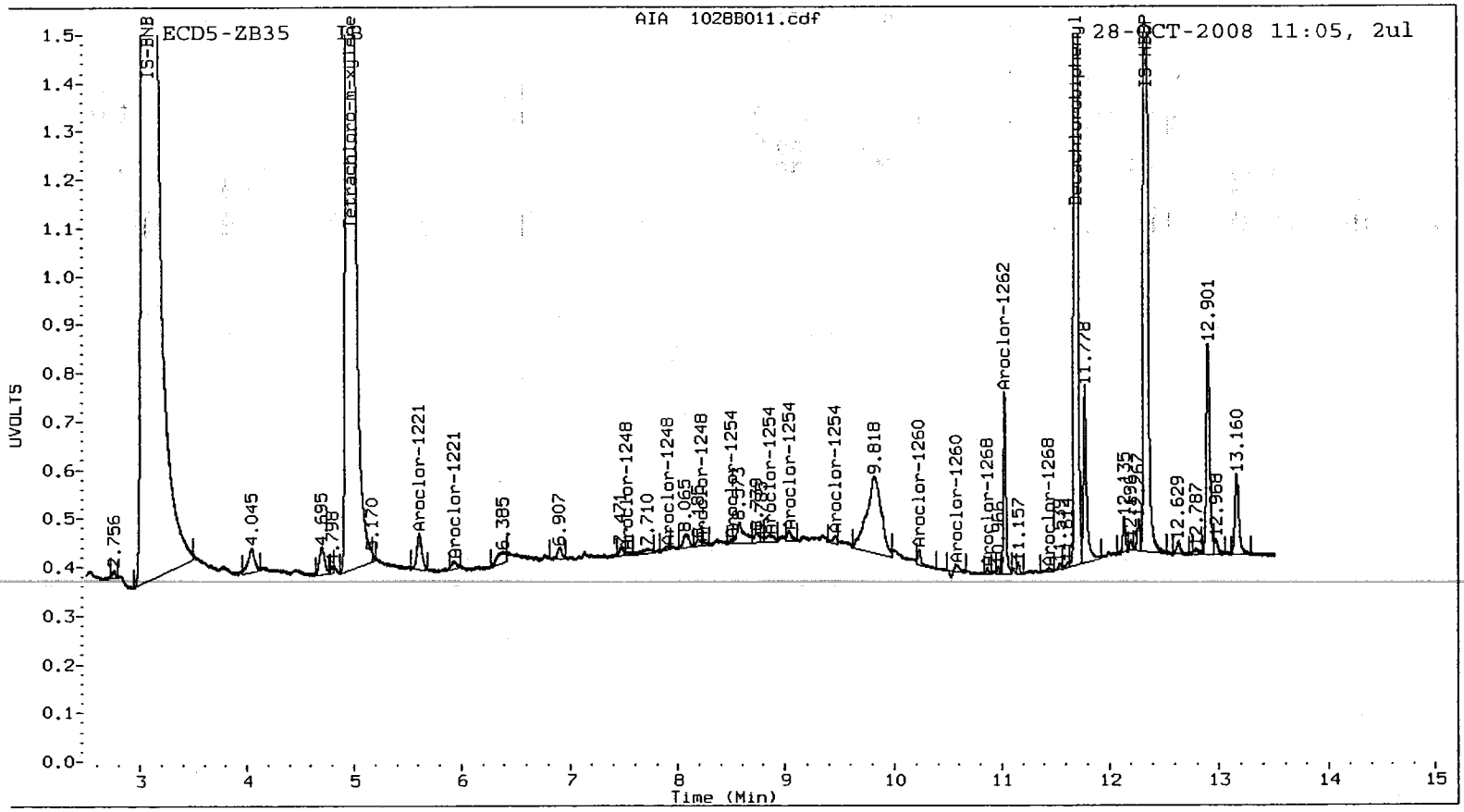
4.048
4.241
5.322
10.443
11.118
11.928
12.244
13.147
UVOLTS
Time (Min)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Decachlorobiphenyl
IS-HBB
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4.045
4.695
5.170
Aroclor-1221
6.385
6.907
Aroclor-1248
Aroclor-1254
9.818
Aroclor-1260
Aroclor-1262
Aroclor-1268
11.157
11.778
12.629
12.787
12.901
12.968
13.160
UVOLTS
Time (Min)

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081028.B/ical-1.b/1028B012.d
Data file 2: 20081028.B/ical-2.b/1028B012.d
Method: /chem2/ecd5.i/20081028.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 250 PPB AR1660
Client ID:
Injection Date: 28-OCT-2008 11:22
Report Date: 10/29/2008 10:27
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.846	0.056	6340341	4.989	-0.044	6254066	19.3	20.1	3.9	Tetrachloro-m-xylene
11.356	0.006	3351827	11.697	0.000	3241398	21.8	18.5	16.0	Decachlorobiphenyl

* Indicates RPD > 40%
1 Indicates Column 1 peak was manually integrated
J Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	48.2	50.1
Decachlorobiphenyl	54.4	46.3

pc 10/28/08 10/29
pc 10/29/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24393719	24393719	0.0
Hexabromobiphenyl	5010762	5010762	0.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	25207774	25207774	0.0
Hexabromobiphenyl	4413062	4413062	0.0

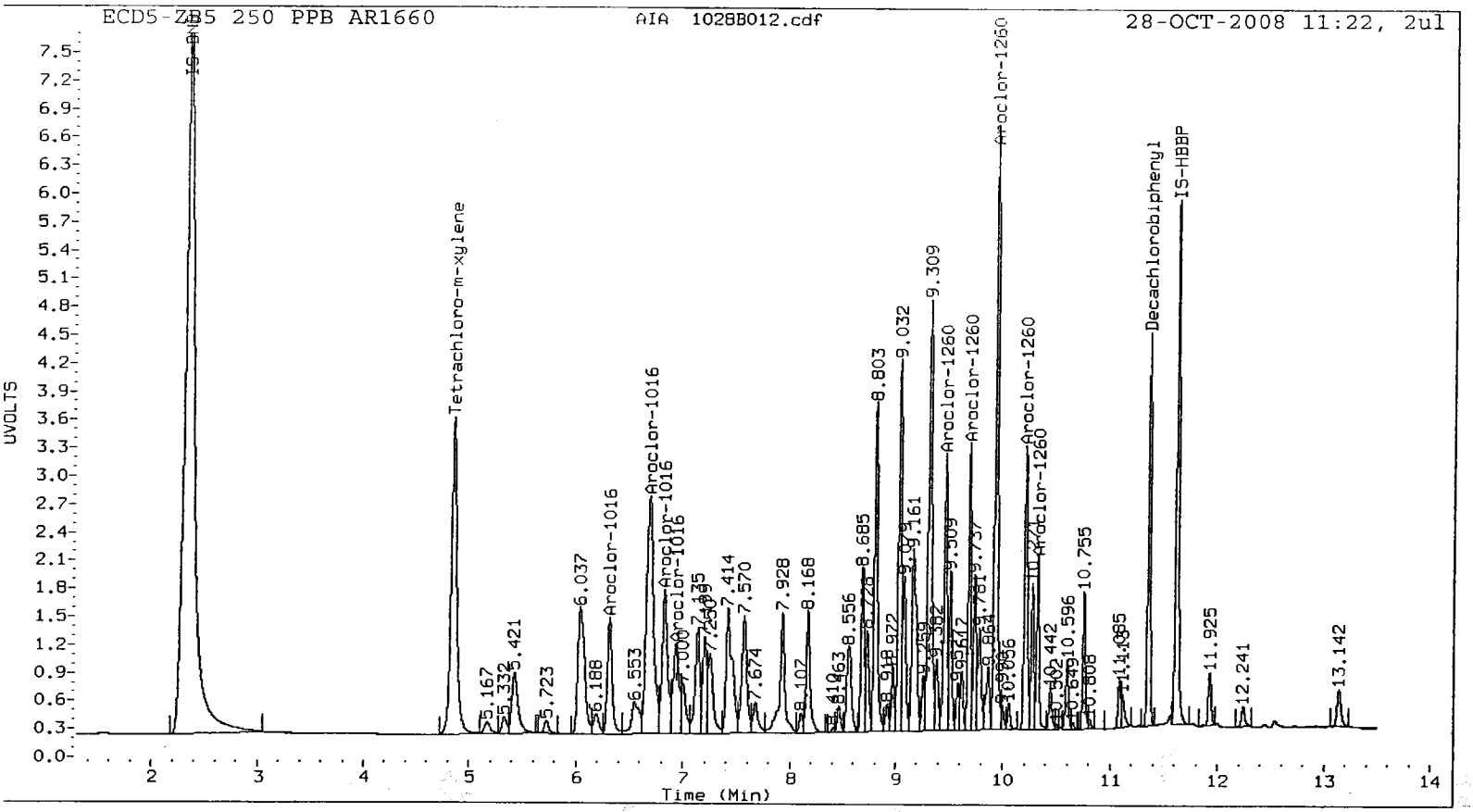
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	6.313	0.000	2008530	252.9	1	6.533	0.001	2992211	255.9
Aroclor-1016	2	6.686	0.001	5887950	246.1	2	7.130	-0.002	6426631	264.3
Aroclor-1016	3	6.827	0.000	2791789	251.9	3	7.328	0.001	3053206	279.1
Aroclor-1016	4	6.935	0.000	1758978	254.1	4	7.897	0.000	1977828	265.2
Total Col1Ave (4 peaks):					251.3	Total Col2Ave (4 peaks):				266.1 RPD = 6
Corrected Ave (3 peaks):					250.3	Corrected Ave (3 peaks):				261.8 RPD = 4
Aroclor-1260	1	9.460	0.001	2862095	244.2	1	9.293	0.001	5966044	253.0
Aroclor-1260	2	9.684	0.001	2710122	243.4	2	10.054	0.001	3369565	248.6
Aroclor-1260	3	9.926	0.001	6210869	247.7	3	10.217	0.000	7912651	253.1
Aroclor-1260	4	10.204	0.000	3052304	240.6	4	10.615	0.000	4265945	240.2
Aroclor-1260	5	10.322	0.001	1599508	243.4	NS	---			----
Total Col1Ave (5 peaks):					243.9	Total Col2Ave (4 peaks):				248.7 RPD = 2
Corrected Ave (4 peaks):					242.9	Corrected Ave (3 peaks):				247.2 RPD = 2

Total PCB Area Col1 (4.889 - 11.250) = 86836281 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.132 - 11.597) = 95585014 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical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Time (Min)
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Tetrachloro-m-xylene
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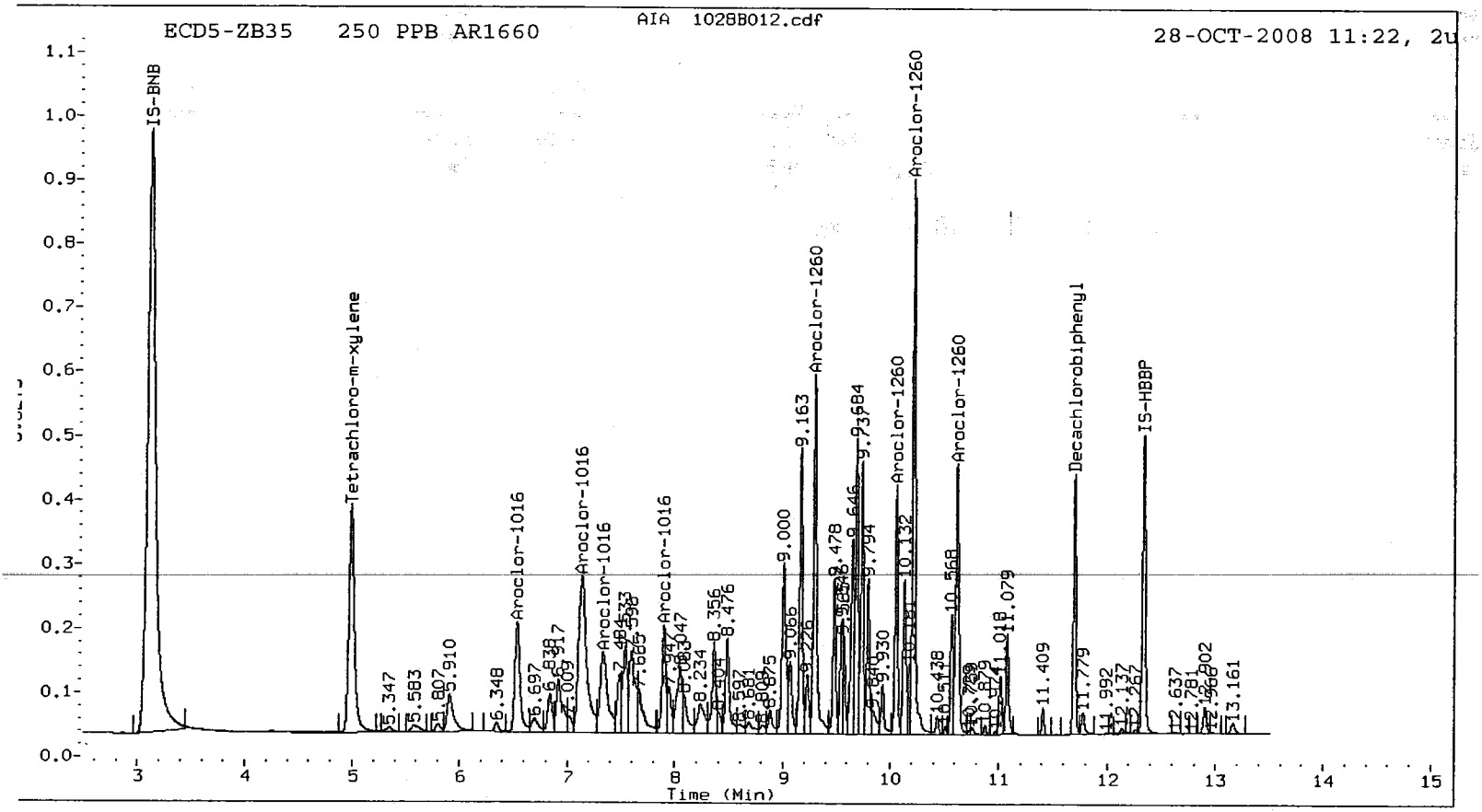
Aroclor-1260
Decachlorobiphenyl
IS-HBBP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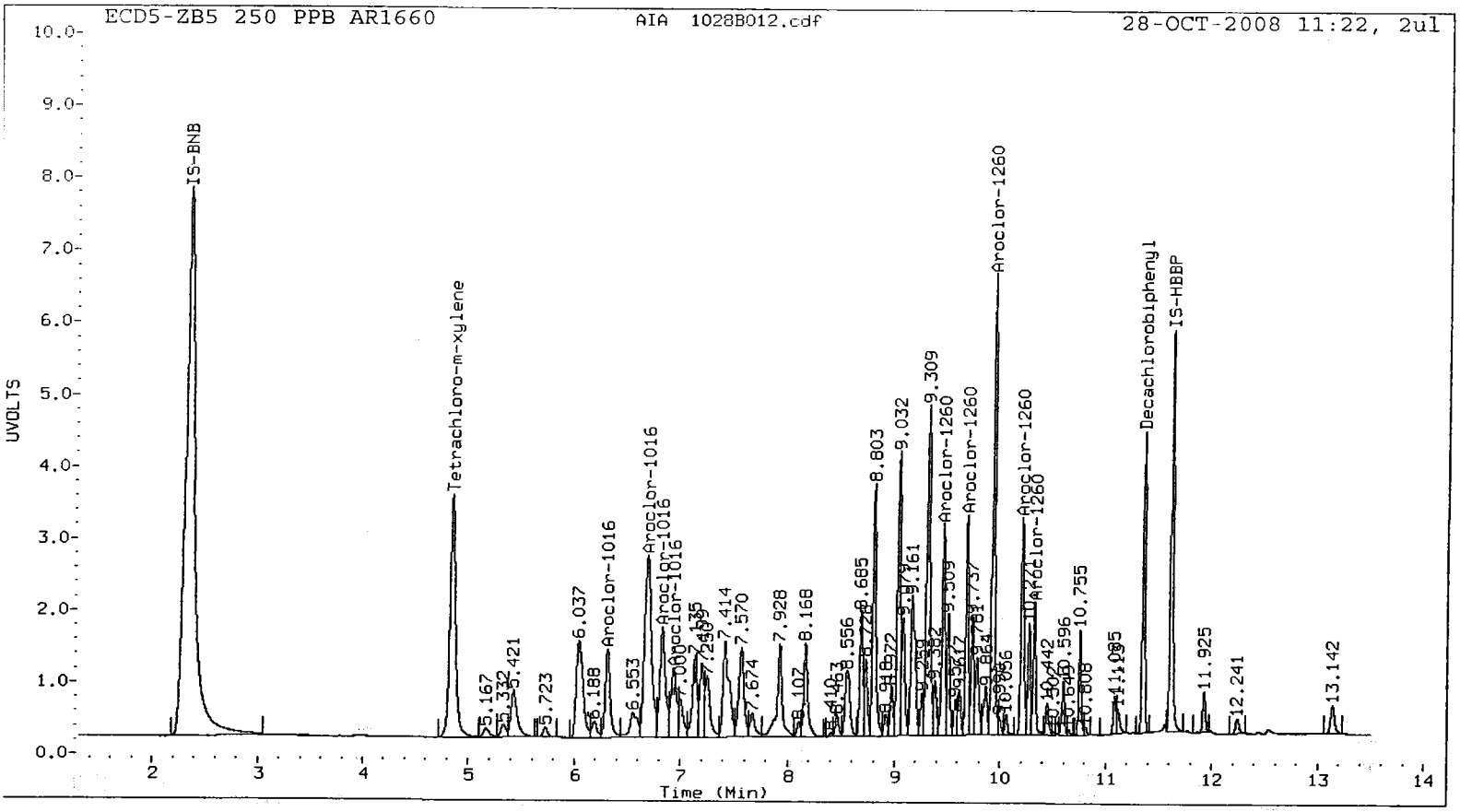
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP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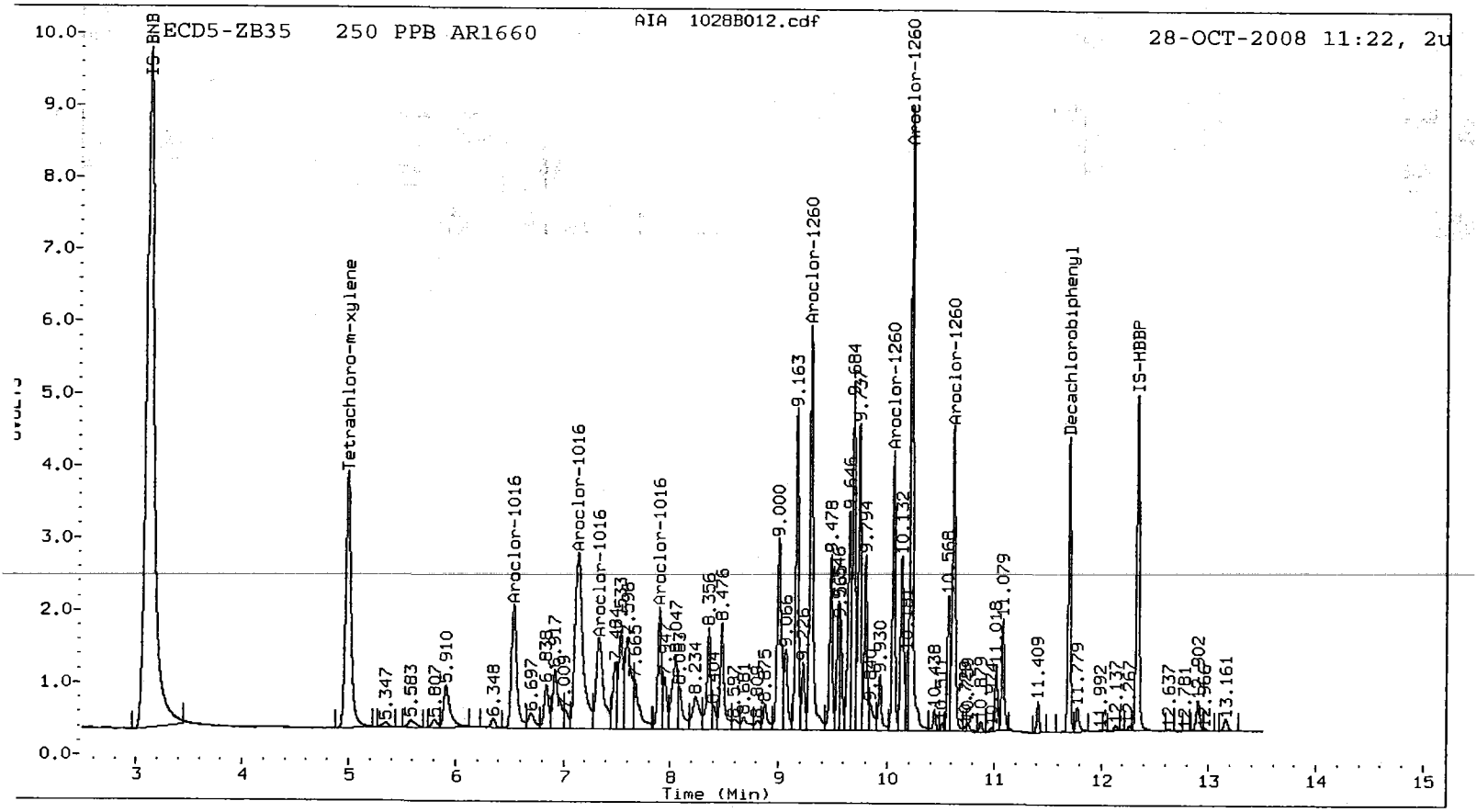
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP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Time (Min)
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Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081028.B/ical-1.b/1028B013.d
Data file 2: 20081028.B/ical-2.b/1028B013.d
Method: /chem2/ecd5.i/20081028.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 20 PPB AR1660
Client ID:
Injection Date: 28-OCT-2008 11:39
Report Date: 10/29/2008 10:27
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.844	0.054	610159	4.987	-0.046	524145	1.9	1.7	13.9	Tetrachloro-m-xylene
11.355	0.005	426129	11.697	0.000	354807	2.8	2.1	29.4	Decachlorobiphenyl

Indicates RPD > 40%
Indicates Column 1 peak was manually integrated
Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	4.8	4.2
Decachlorobiphenyl	6.9	5.2

AK 10/29/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24393719	23353994	-4.3
Hexabromobiphenyl	5010762	4995897	-0.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	25207774	25107549	-0.4
Hexabromobiphenyl	4413062	4337942	-1.7

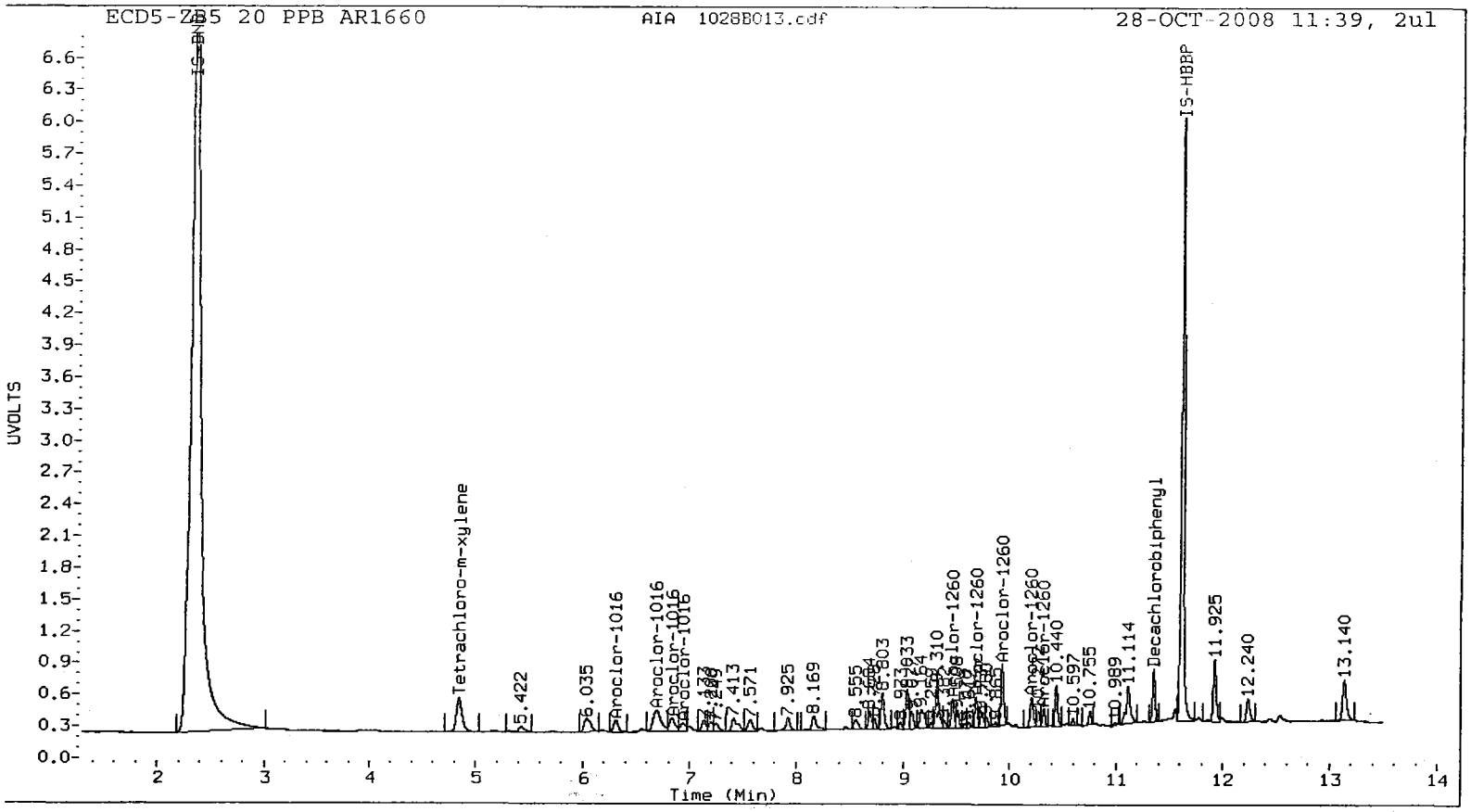
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	ZB5 Col Area	Amount	Peak#	RT	Shift	ZB35 Col Area	Amount
Aroclor-1016	1	6.310	-0.003	172688	22.7	1	6.535	0.003	235678	20.2
Aroclor-1016	2	6.688	0.002	501455	21.9	2	7.139	0.007	419293	17.3
Aroclor-1016	3	6.834	0.007	242584	22.9	3	7.335	0.007	190183	17.5
Aroclor-1016	4	6.939	0.004	142497	21.5	4	7.896	0.000	145136	19.5
Total Col1Ave (4 peaks):					22.2	Total Col2Ave (4 peaks):				18.6 RPD = 18
Corrected Ave (3 peaks):					22.0	Corrected Ave (3 peaks):				18.1 RPD = 20
Aroclor-1260	1	9.459	0.001	269961	23.1	1	9.293	0.001	512925	22.1
Aroclor-1260	2	9.684	0.000	257839	23.2	2	10.053	0.000	292421	21.9
Aroclor-1260	3	9.927	0.001	518119	20.7	3	10.218	0.001	658876	21.4
Aroclor-1260	4	10.205	0.001	291278	23.0	4	10.615	0.000	397119	22.7
Aroclor-1260	5	10.321	0.000	146603	22.4	NS	---			----
Total Col1Ave (5 peaks):					22.5	Total Col2Ave (4 peaks):				22.1 RPD = 2
Corrected Ave (4 peaks):					22.3	Corrected Ave (3 peaks):				21.8 RPD = 2

Total PCB Area Col1 (4.889 - 11.250) = 8027997 Col1 Total PCB = 0.0 ppm*

Total PCB Area Col2 (5.132 - 11.597) = 8286818 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical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Time (Min)
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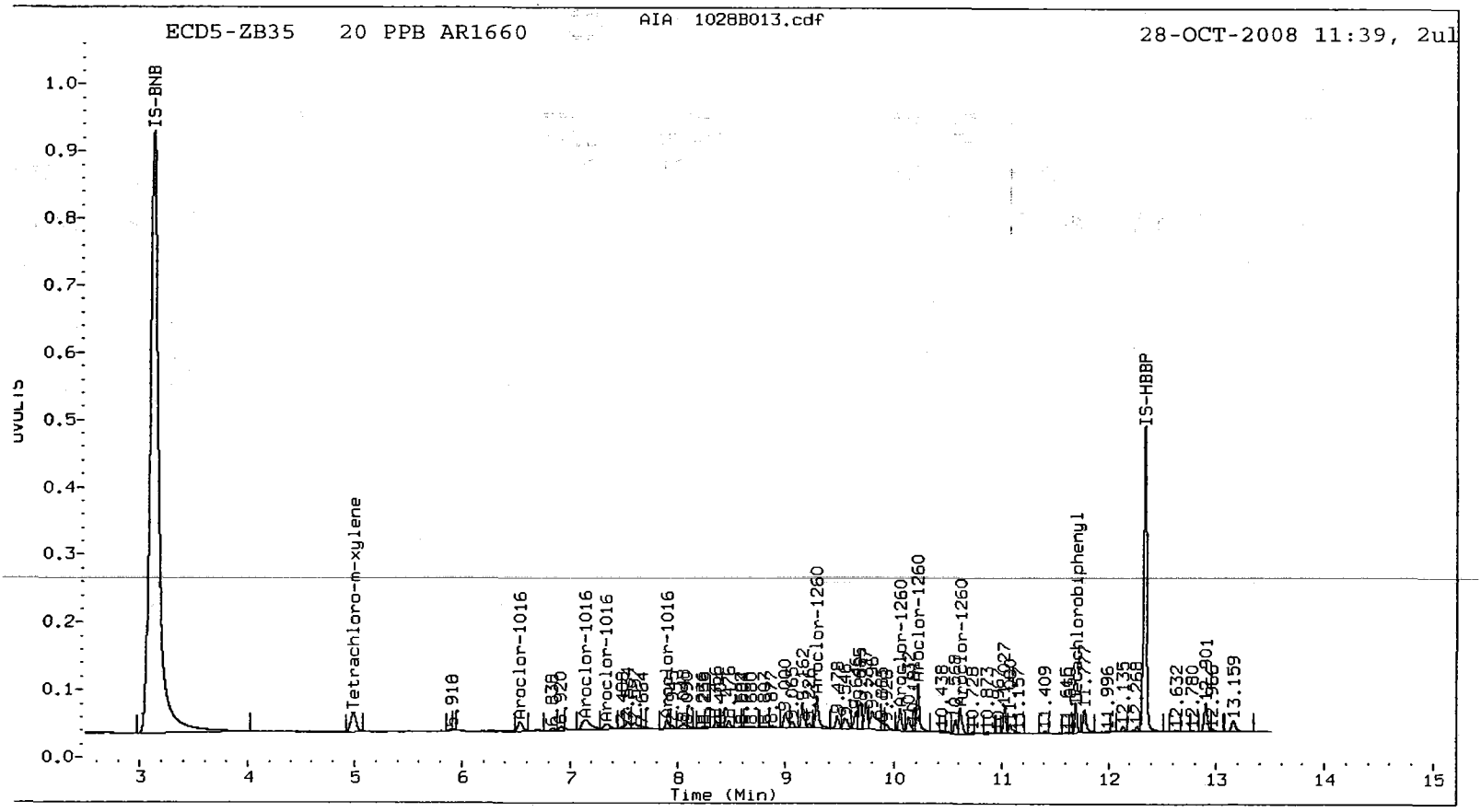
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP
11.925
12.240
13.140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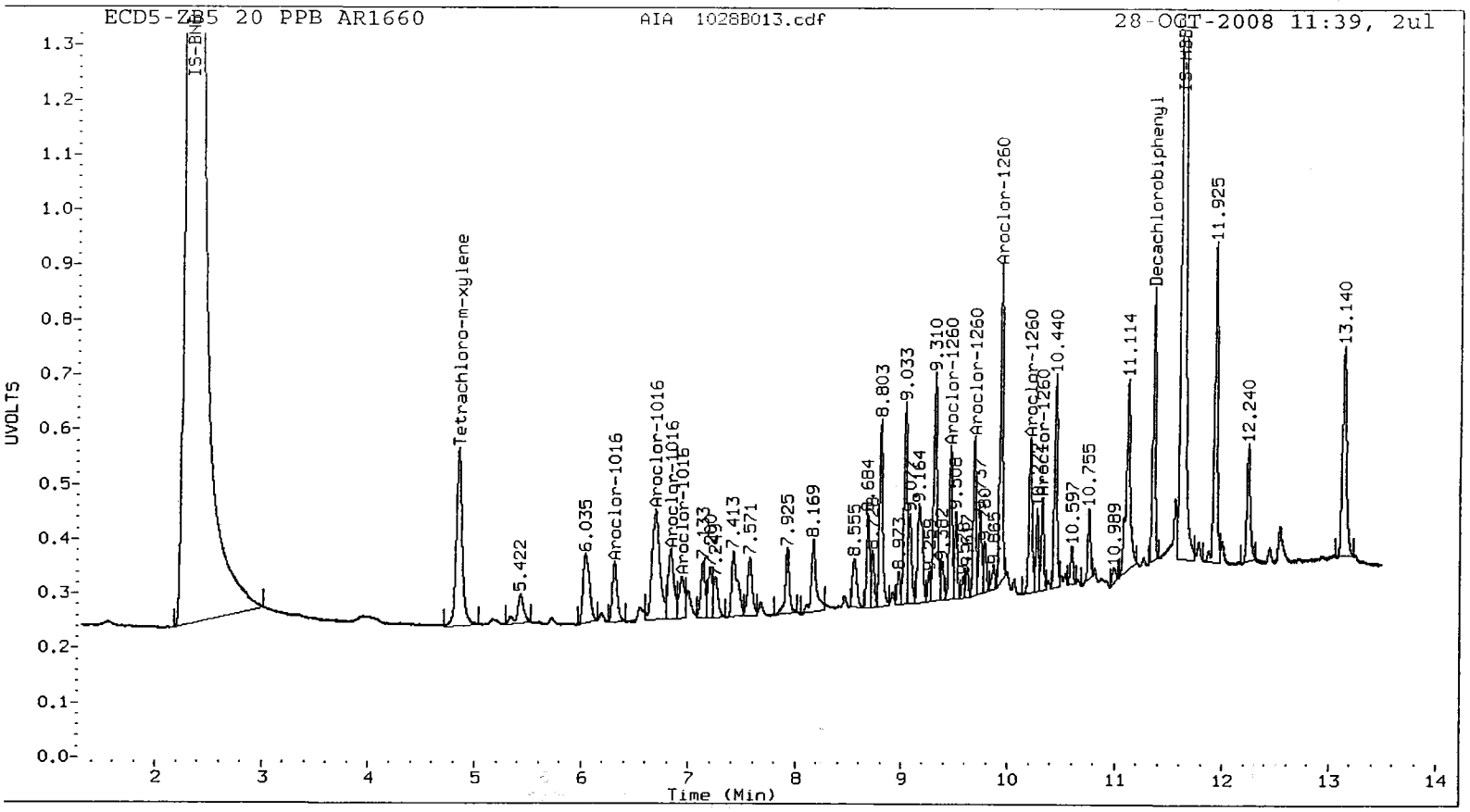
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP
13.159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UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBB
5.422
6.035
7.133
7.413
7.571
7.925
8.169
8.555
8.684
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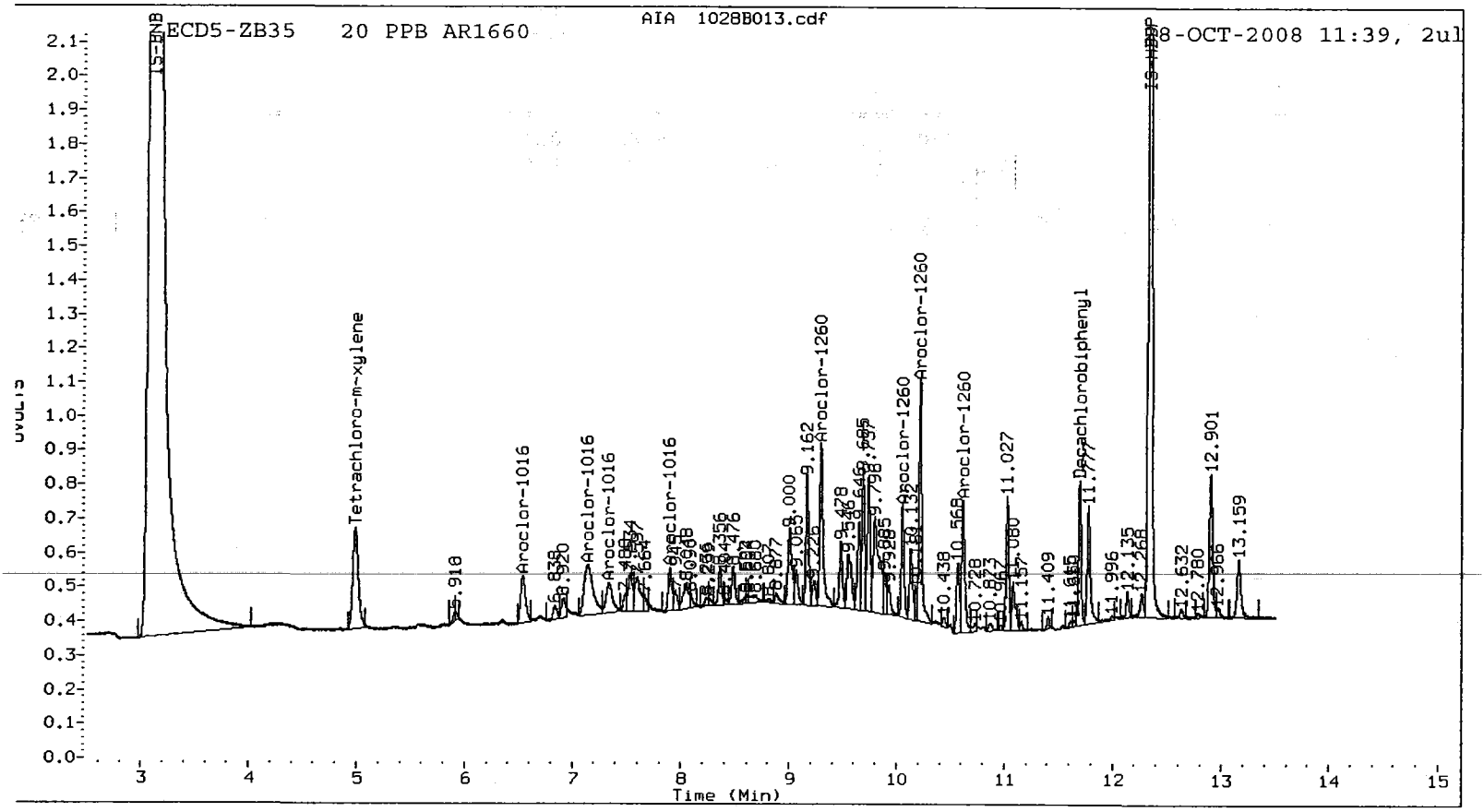
10.989
11.114
11.925
12.240
13.140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UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBB
5.918
8.000
9.162
10.438
10.568
11.027
11.409
12.632
12.780
12.901
13.159

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081028.B/ical-1.b/1028B014.d
Data file 2: 20081028.B/ical-2.b/1028B014.d
Method: /chem2/ecd5.i/20081028.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 1000 PPM AR1660
Client ID:
Injection Date: 28-OCT-2008 11:56
Report Date: 10/29/2008 10:27
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.847	0.057	23750783	4.986	-0.046	24266995	70.1	75.7	7.7	Tetrachloro-m-xylene
11.356	0.006	12641806	11.697	0.000	13006826	79.0	70.4	11.4	Decachlorobiphenyl

* Indicates RPD > 40%
1 Indicates Column 1 peak was manually integrated
J Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	175.2	189.4
Decachlorobiphenyl	197.4	176.0

AR 10/29/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24393719	25152222	3.1
Hexabromobiphenyl	5010762	5209532	4.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	25207774	25895528	2.7
Hexabromobiphenyl	4413062	4661184	5.6

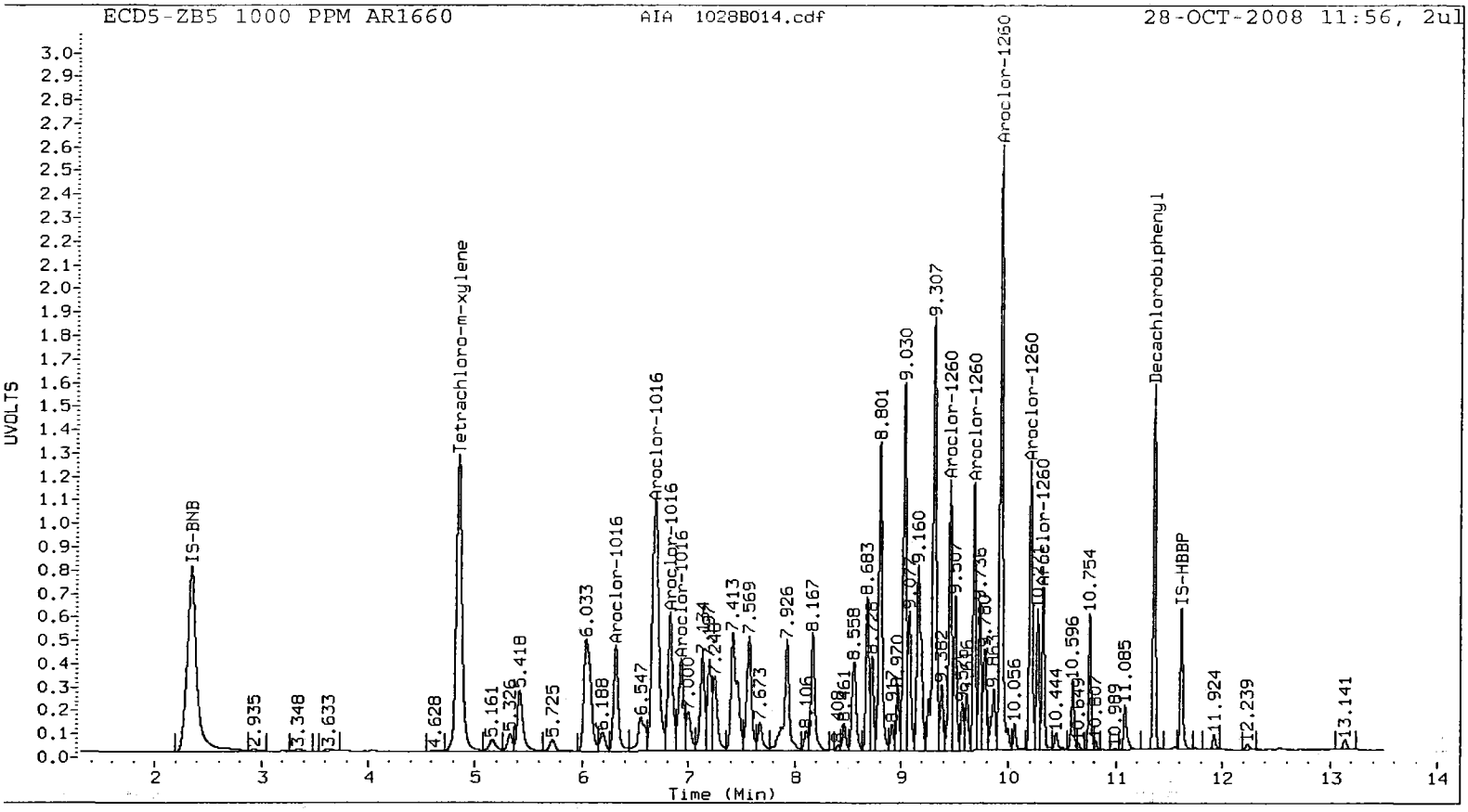
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	6.311	-0.002	7200539	879.3	1	6.533	0.001	10972020	913.4
Aroclor-1016	2	6.681	-0.004	22826030	925.4	2	7.122	-0.010	24593203	984.6
Aroclor-1016	3	6.824	-0.002	9588687	839.2	3	7.316	-0.012	9636822	857.5
Aroclor-1016	4	6.929	-0.006	6649877	931.8	4	7.893	-0.003	7097512	926.4
Total Col1Ave (4 peaks):					893.9	Total Col2Ave (4 peaks):			920.5	RPD = 3
Corrected Ave (3 peaks):					881.3	Corrected Ave (3 peaks):			899.1	RPD = 2
Aroclor-1260	1	9.459	0.000	10713187	879.2	1	9.291	-0.001	21421663	860.0
Aroclor-1260	2	9.682	-0.001	10084953	871.2	2	10.054	0.001	12923884	902.8
Aroclor-1260	3	9.925	-0.001	25020955	959.9	3	10.216	-0.001	30097034	911.5
Aroclor-1260	4	10.203	-0.001	12051598	913.8	4	10.614	-0.001	17351535	924.8
Aroclor-1260	5	10.321	0.000	6141106	899.0	NS	---			----
Total Col1Ave (5 peaks):					904.6	Total Col2Ave (4 peaks):			899.8	RPD = 1
Corrected Ave (4 peaks):					890.8	Corrected Ave (3 peaks):			891.4	RPD = 0

Total PCB Area Col1 (4.889 - 11.250) = 324674175 Col1 Total PCB = 1.8 ppm*

Total PCB Area Col2 (5.132 - 11.597) = 350195255 Col2 Total PCB = 1.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical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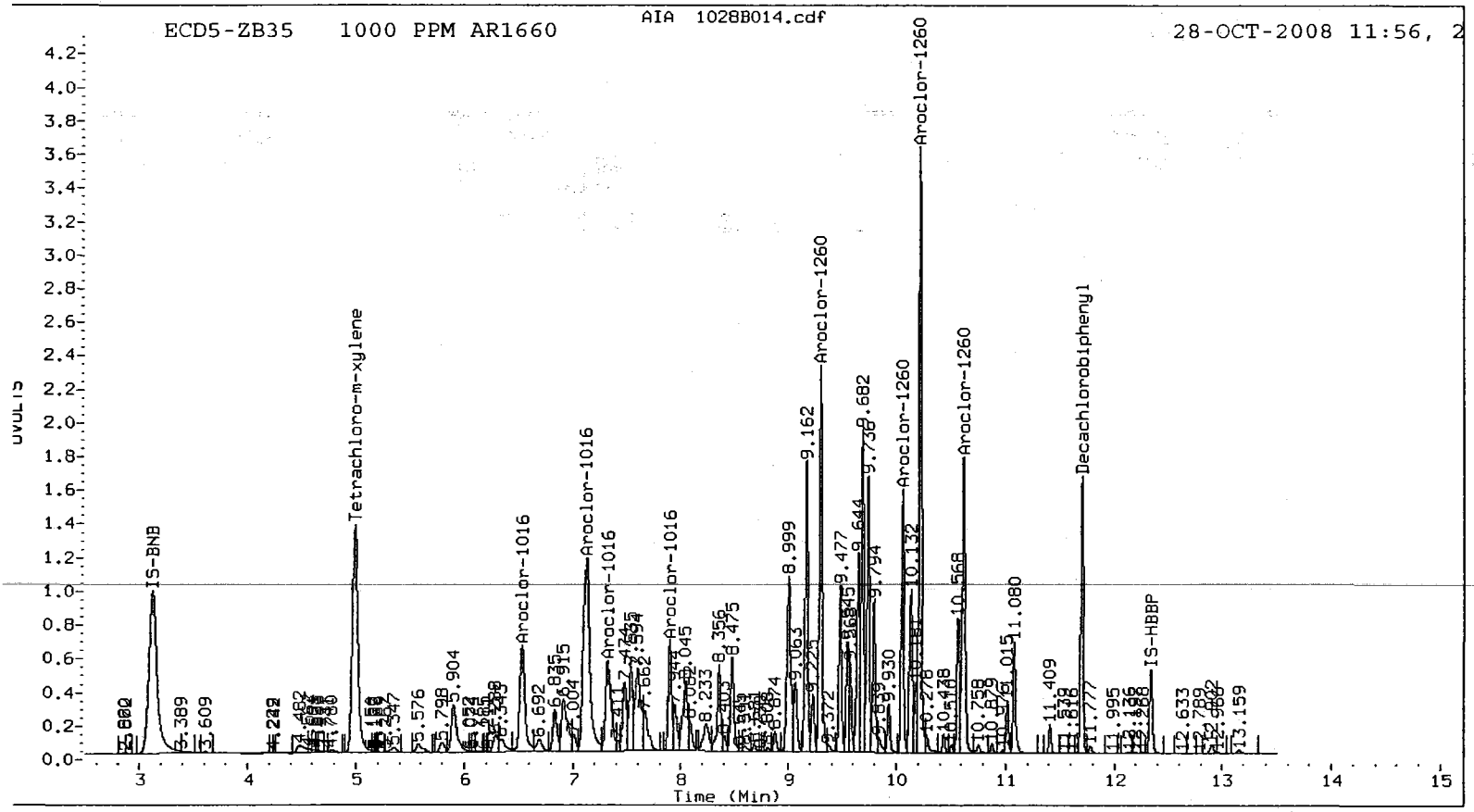
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP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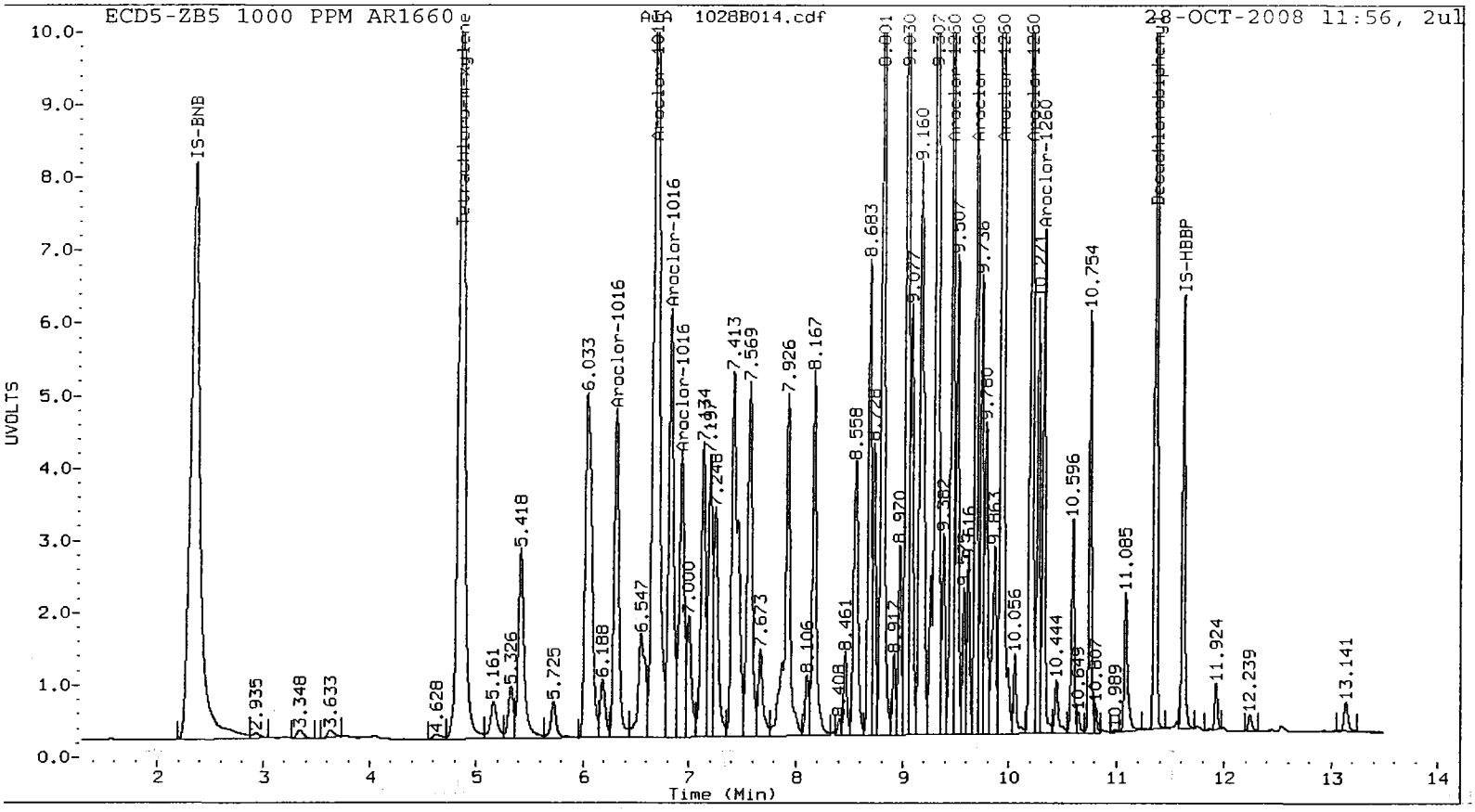
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP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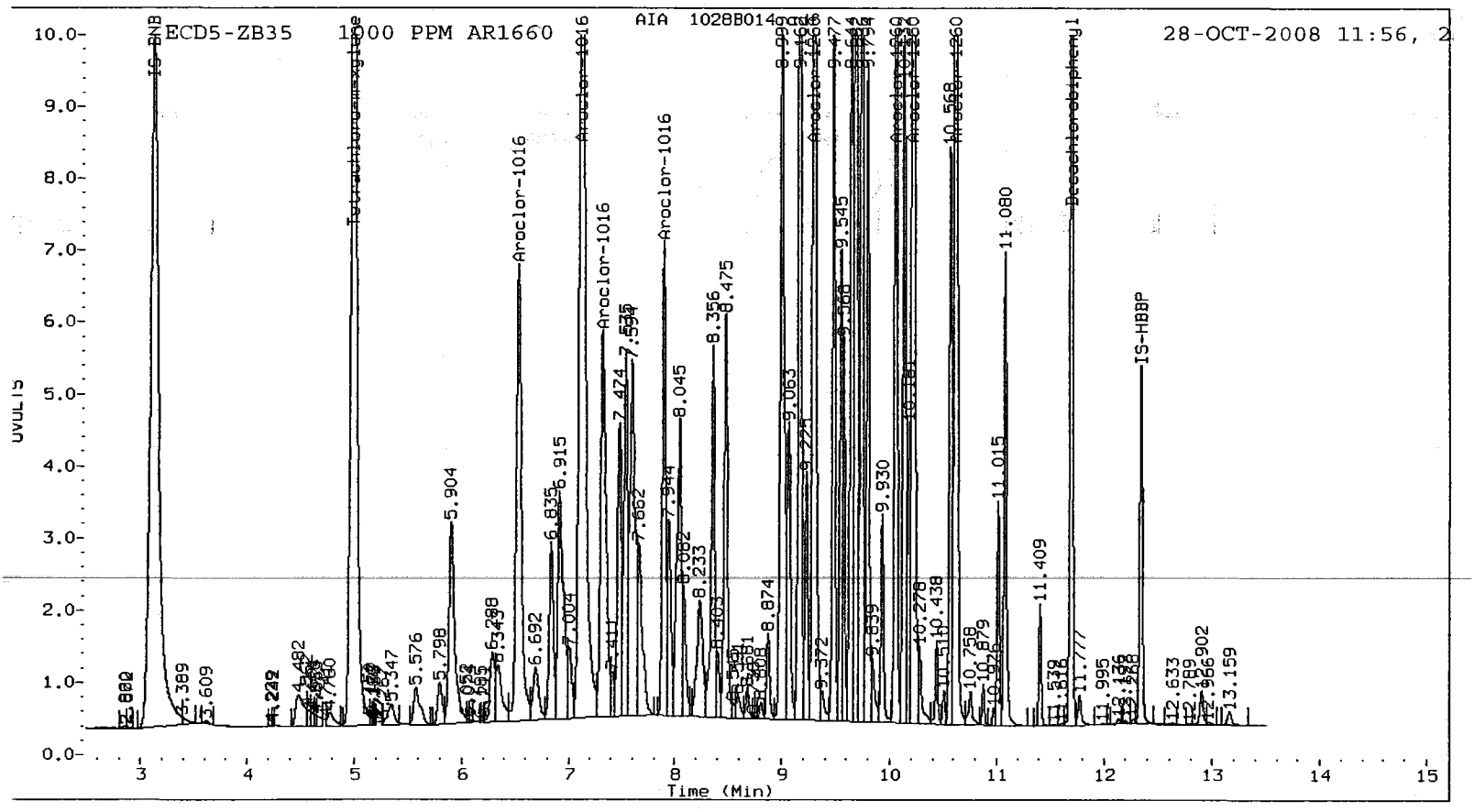
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP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UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081028.B/ical-1.b/1028B015.d
Data file 2: 20081028.B/ical-2.b/1028B015.d
Method: /chem2/ecd5.i/20081028.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 100 PPB AR1660
Client ID:
Injection Date: 28-OCT-2008 12:14
Report Date: 10/29/2008 10:27
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.842	0.053	2680143	4.985	-0.047	2541216	8.1	8.0	0.7	Tetrachloro-m-xylene
11.355	0.005	1515422	11.696	-0.001	1408571	9.7	8.0	18.7	Decachlorobiphenyl

: Indicates RPD > 40%
I Indicates Column 1 peak was manually integrated
I Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	20.2	20.1
Decachlorobiphenyl	24.2	20.1

AF 10/29/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24393719	24613630	0.9
Hexabromobiphenyl	5010762	5092307	1.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	25207774	25585754	1.5
Hexabromobiphenyl	4413062	4427117	0.3

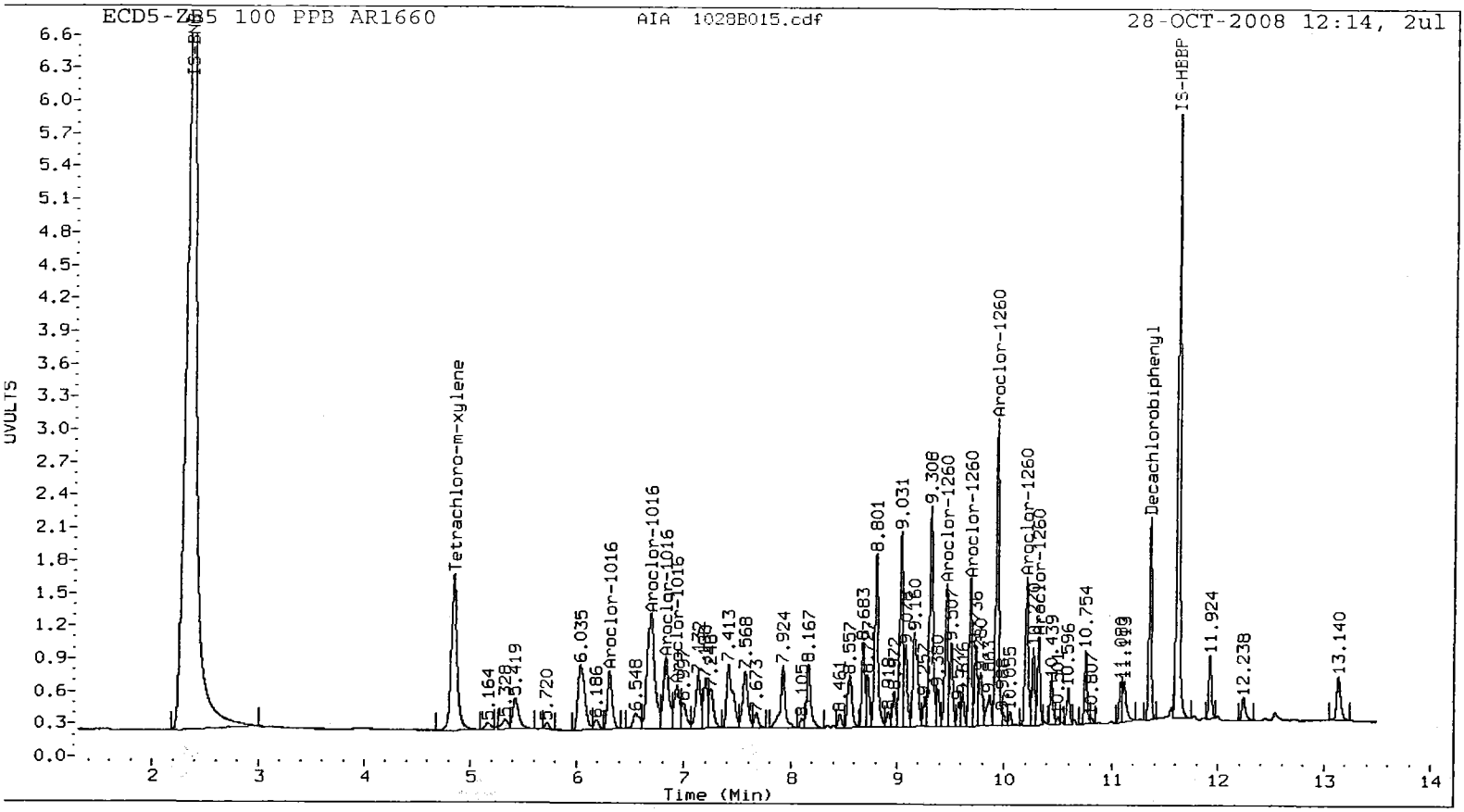
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	6.310	-0.003	825008	103.0	1	6.531	-0.001	1255801	105.8
Aroclor-1016	2	6.687	0.001	2527800	104.7	2	7.138	0.005	2640958	107.0
Aroclor-1016	3	6.827	0.001	1220248	109.1	3	7.334	0.006	1238616	111.5
Aroclor-1016	4	6.934	-0.001	710039	101.7	4	7.894	-0.003	778627	102.9
Total Col1Ave (4 peaks):					104.6	Total Col2Ave (4 peaks):				106.8 RPD = 2
Corrected Ave (3 peaks):					103.1	Corrected Ave (3 peaks):				105.2 RPD = 2
Aroclor-1260	1	9.459	0.000	1287004	108.0	1	9.293	0.001	2557389	108.1
Aroclor-1260	2	9.683	0.000	1233037	109.0	2	10.053	0.000	1454502	107.0
Aroclor-1260	3	9.925	-0.001	2737735	107.4	3	10.217	0.000	3371020	107.5
Aroclor-1260	4	10.204	0.000	1361084	105.6	4	10.615	0.000	1858106	104.3
Aroclor-1260	5	10.321	-0.001	724279	108.5	NS	---			----
Total Col1Ave (5 peaks):					107.7	Total Col2Ave (4 peaks):				106.7 RPD = 1
Corrected Ave (4 peaks):					107.4	Corrected Ave (3 peaks):				106.2 RPD = 1

Total PCB Area Col1 (4.889 - 11.250) = 39032227 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.132 - 11.597) = 40044597 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical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Time (Min)
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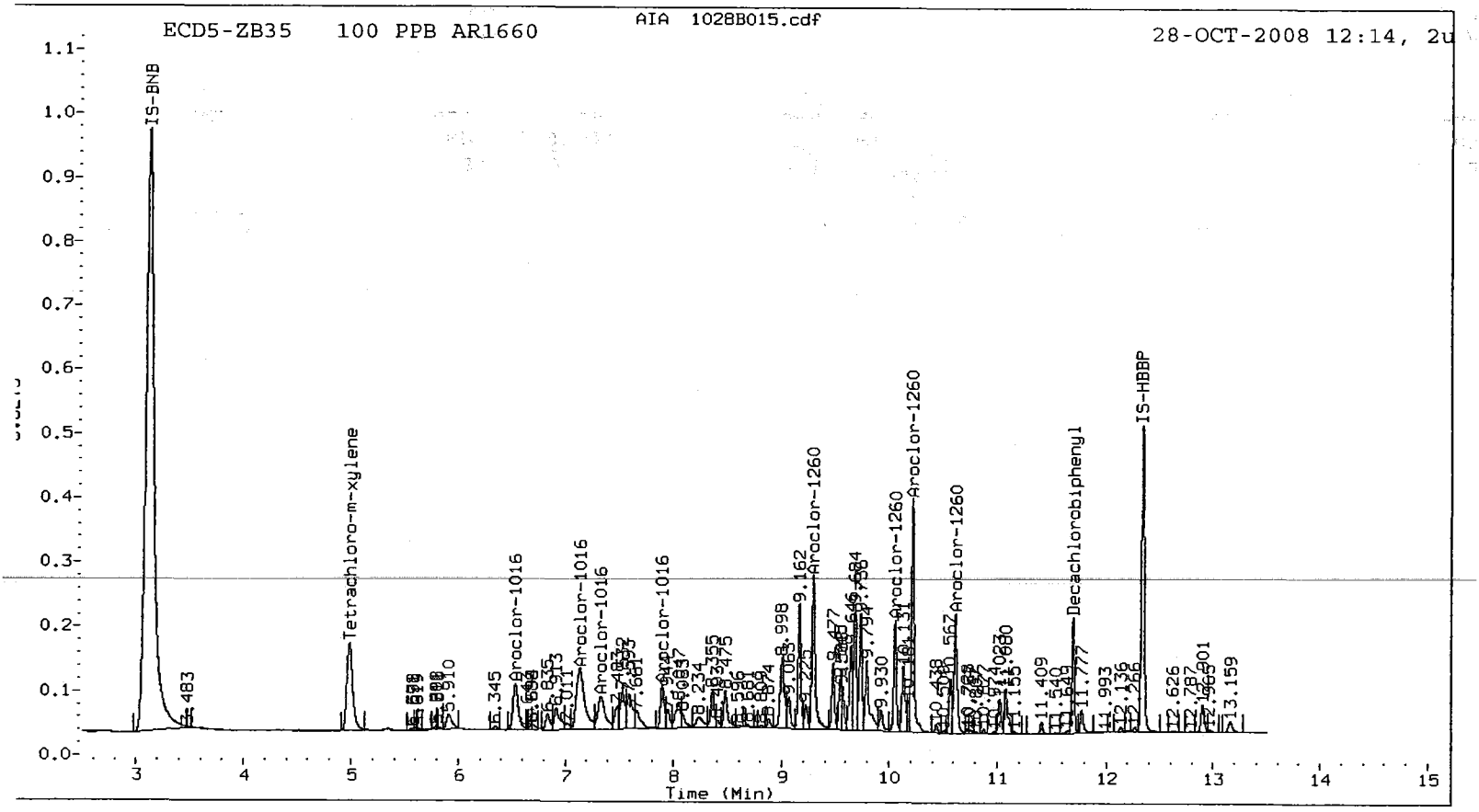
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP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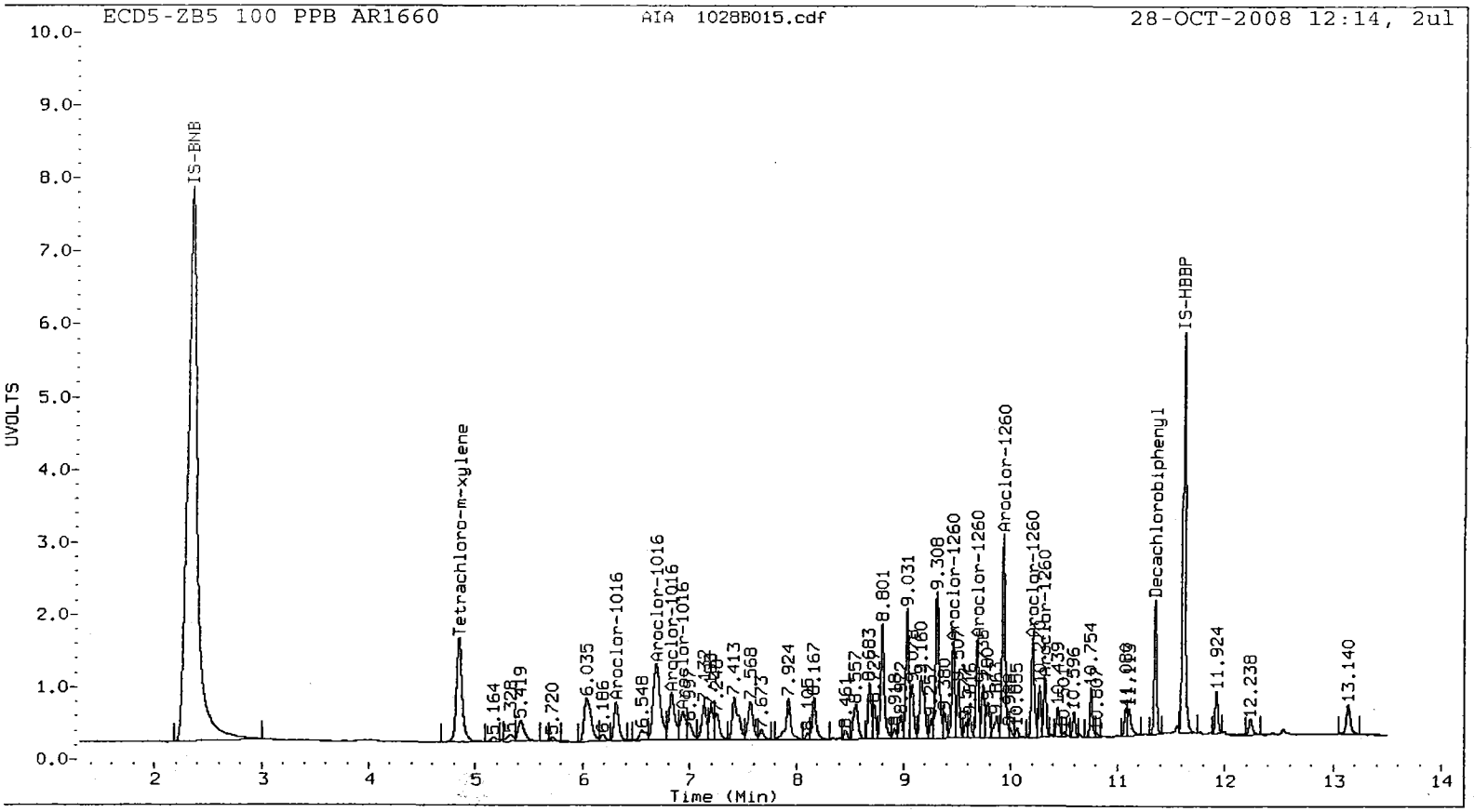
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP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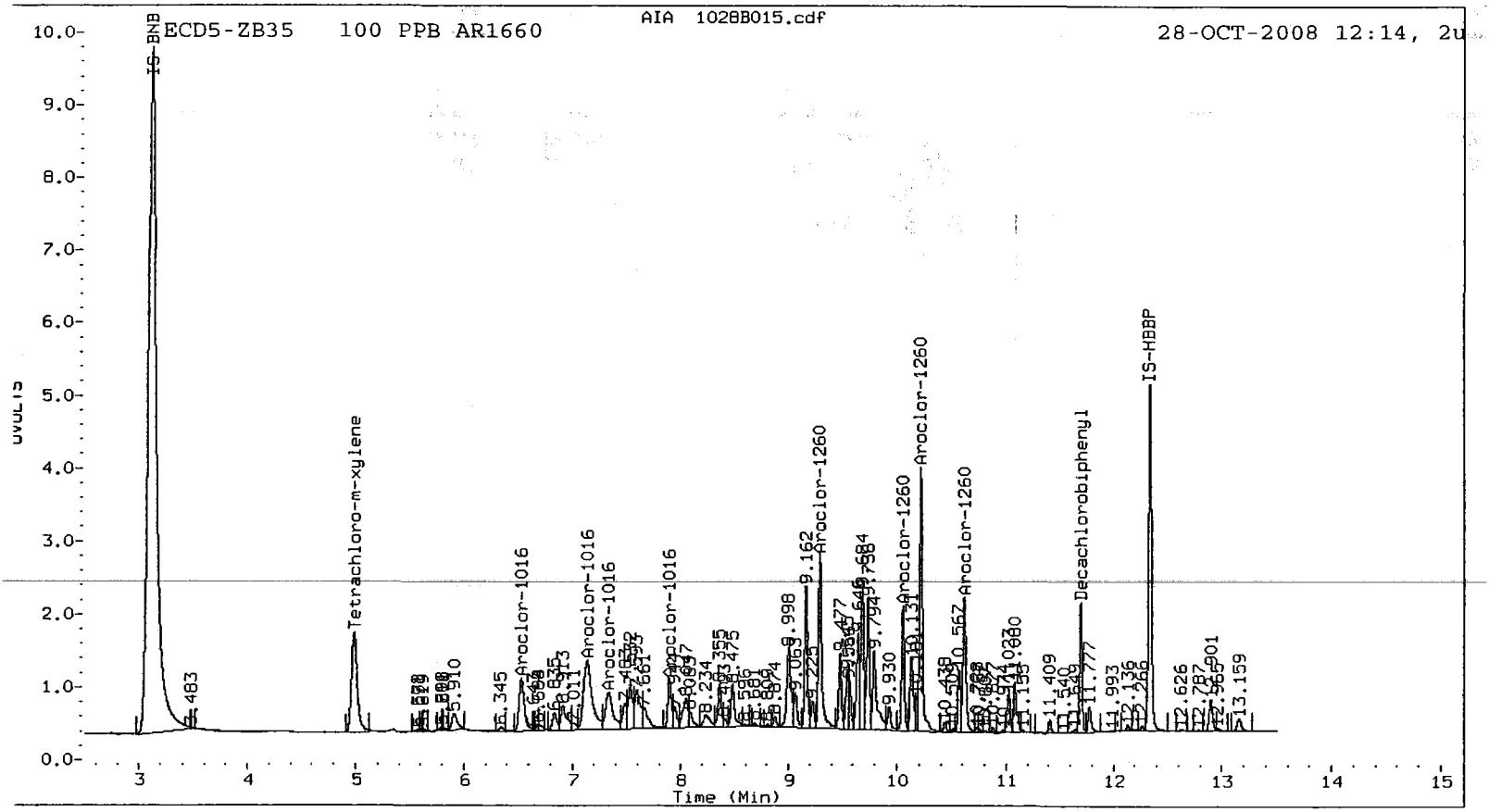
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UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081028.B/ical-1.b/1028B016.d
Data file 2: 20081028.B/ical-2.b/1028B016.d
Method: /chem2/ecd5.i/20081028.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 500 PPB AR1660
Client ID:
Injection Date: 28-OCT-2008 12:31
Report Date: 10/29/2008 10:27
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.844	0.054	12558517	4.988	-0.045	12807695	37.5	39.7	5.8	Tetrachloro-m-xylene
11.355	0.005	6491781	11.697	0.000	6559386	40.6	36.0	12.0	Decachlorobiphenyl

* Indicates RPD > 40%
1 Indicates Column 1 peak was manually integrated
J Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	93.7	99.2
Decachlorobiphenyl	101.5	90.0

JL 10/29/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24393719	24885537	2.0
Hexabromobiphenyl	5010762	5205184	3.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	25207774	26081134	3.5
Hexabromobiphenyl	4413062	4599857	4.2

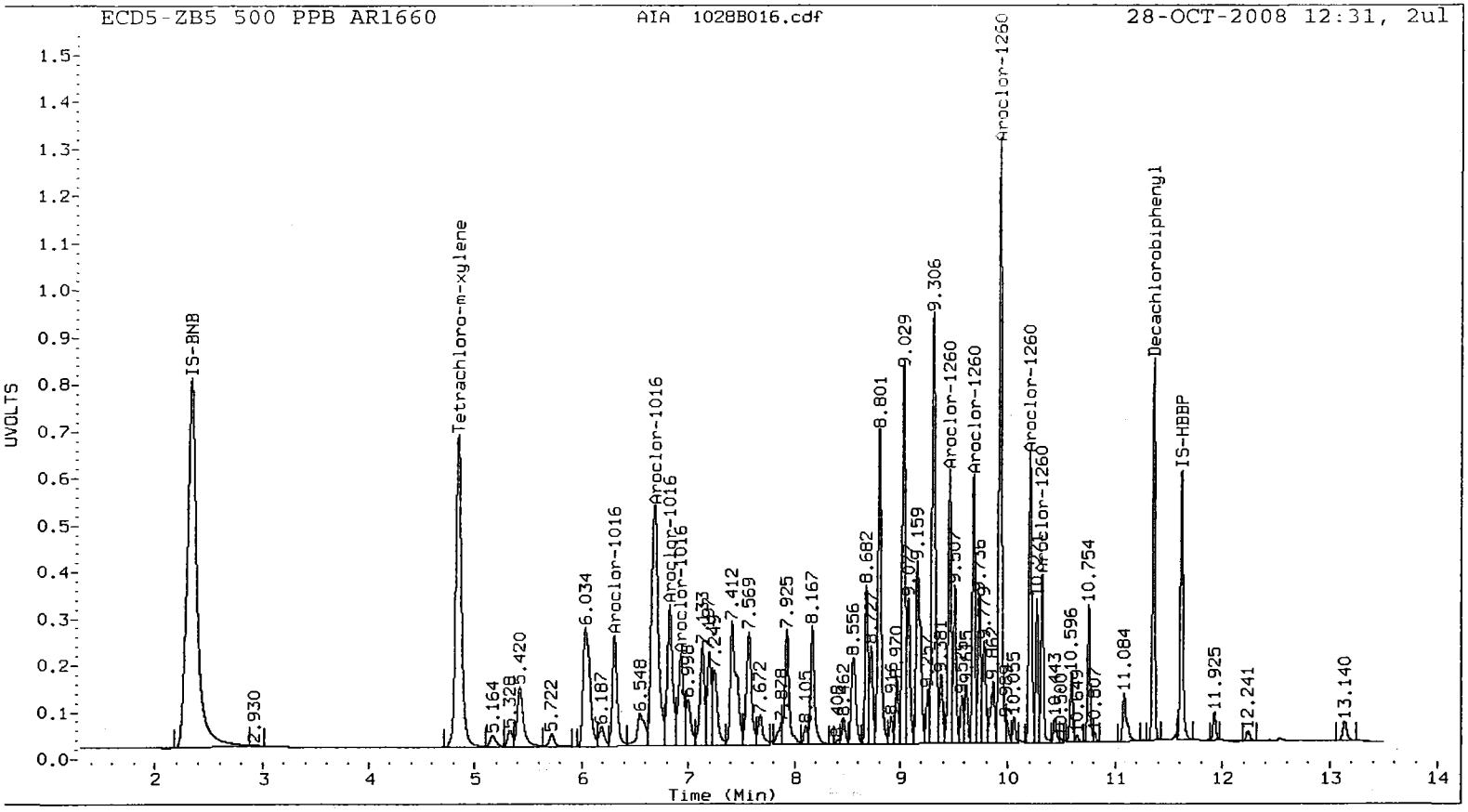
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	6.310	-0.003	3823691	471.9	1	6.531	-0.001	6006421	496.5
Aroclor-1016	2	6.684	-0.001	11566690	474.0	2	7.129	-0.003	12862324	511.3
Aroclor-1016	3	6.825	-0.002	5190372	459.1	3	7.322	-0.006	5874418	519.0
Aroclor-1016	4	6.931	-0.005	3388913	479.9	4	7.893	-0.003	3885409	503.6
	Total Col1Ave (4 peaks):			471.3		Total Col2Ave (4 peaks):			507.6	RPD = 7
	Corrected Ave (3 peaks):			468.4		Corrected Ave (3 peaks):			503.8	RPD = 7
Aroclor-1260	1	9.457	-0.001	5530820	454.3	1	9.291	-0.001	11563485	470.4
Aroclor-1260	2	9.682	-0.001	5227759	452.0	2	10.054	0.000	6609548	467.8
Aroclor-1260	3	9.925	-0.001	12220118	469.2	3	10.217	0.000	15138137	464.6
Aroclor-1260	4	10.204	0.000	6037444	458.2	4	10.615	0.000	8652386	467.3
Aroclor-1260	5	10.321	0.000	3152472	461.9	NS	---			----
	Total Col1Ave (5 peaks):			459.1		Total Col2Ave (4 peaks):			467.5	RPD = 2
	Corrected Ave (4 peaks):			456.6		Corrected Ave (3 peaks):			466.6	RPD = 2

Total PCB Area Col1 (4.889 - 11.250) = 167920763 Col1 Total PCB = 0.9 ppm*

Total PCB Area Col2 (5.132 - 11.597) = 187157052 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical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Time (Min)
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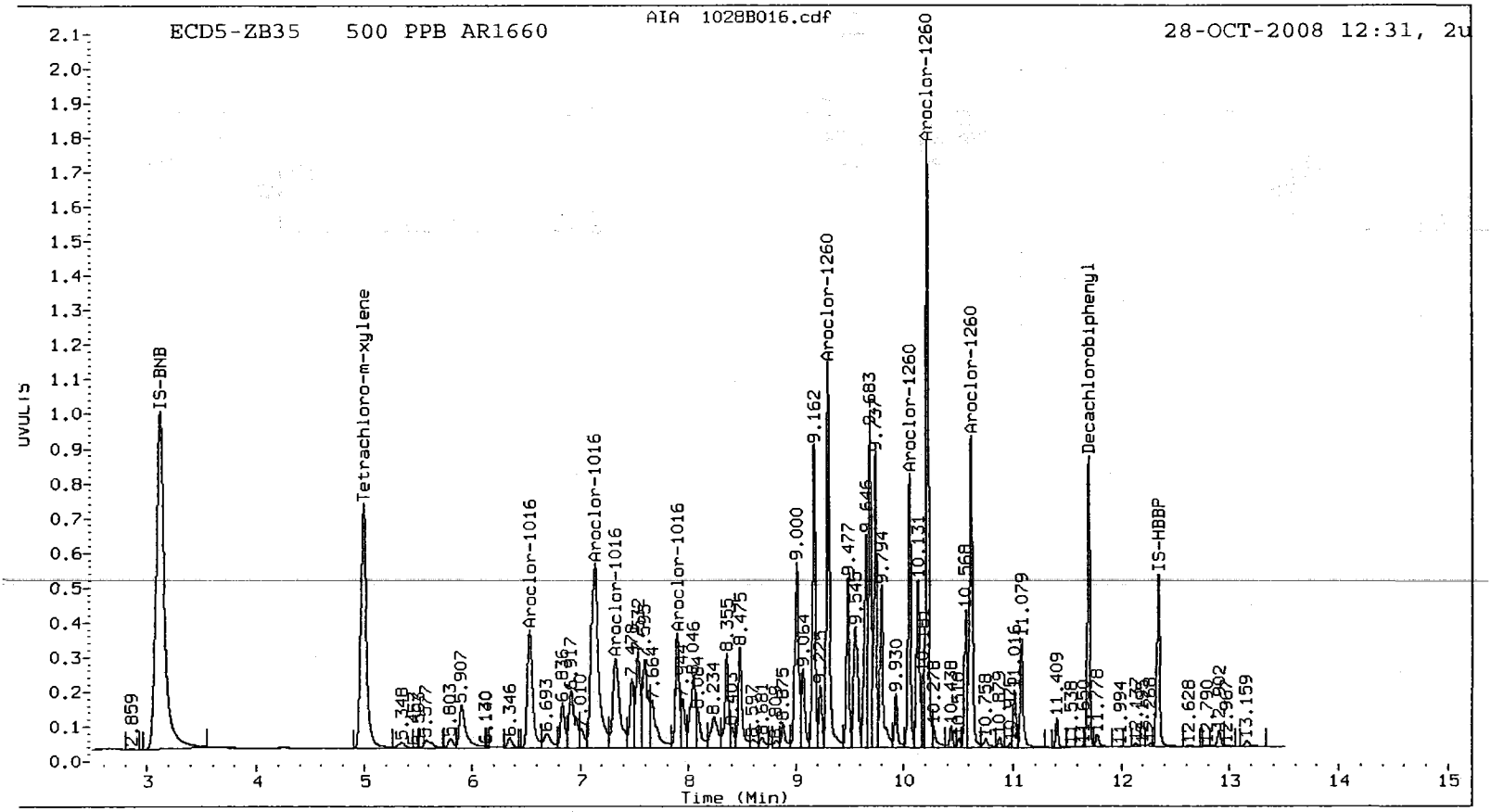
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP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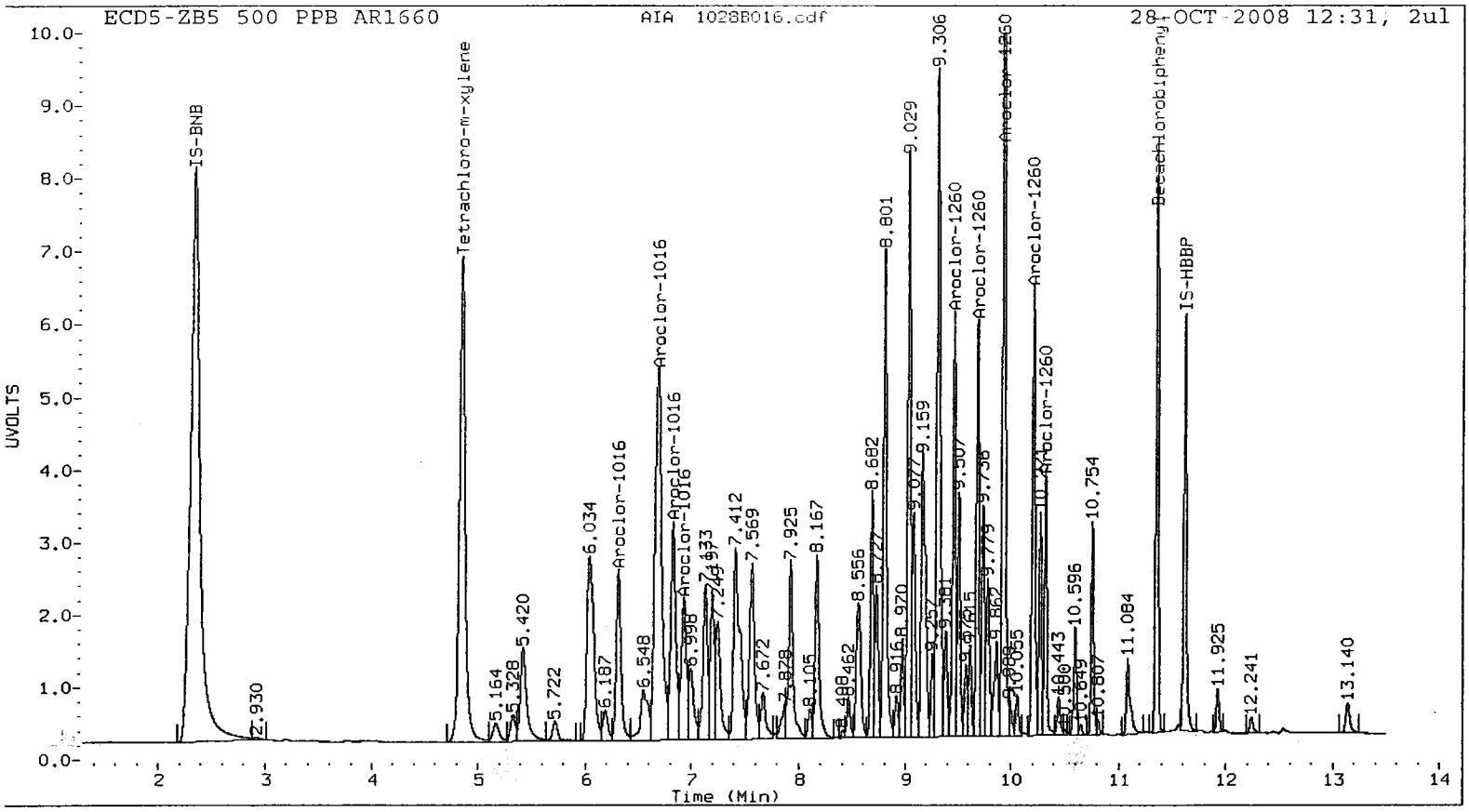
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP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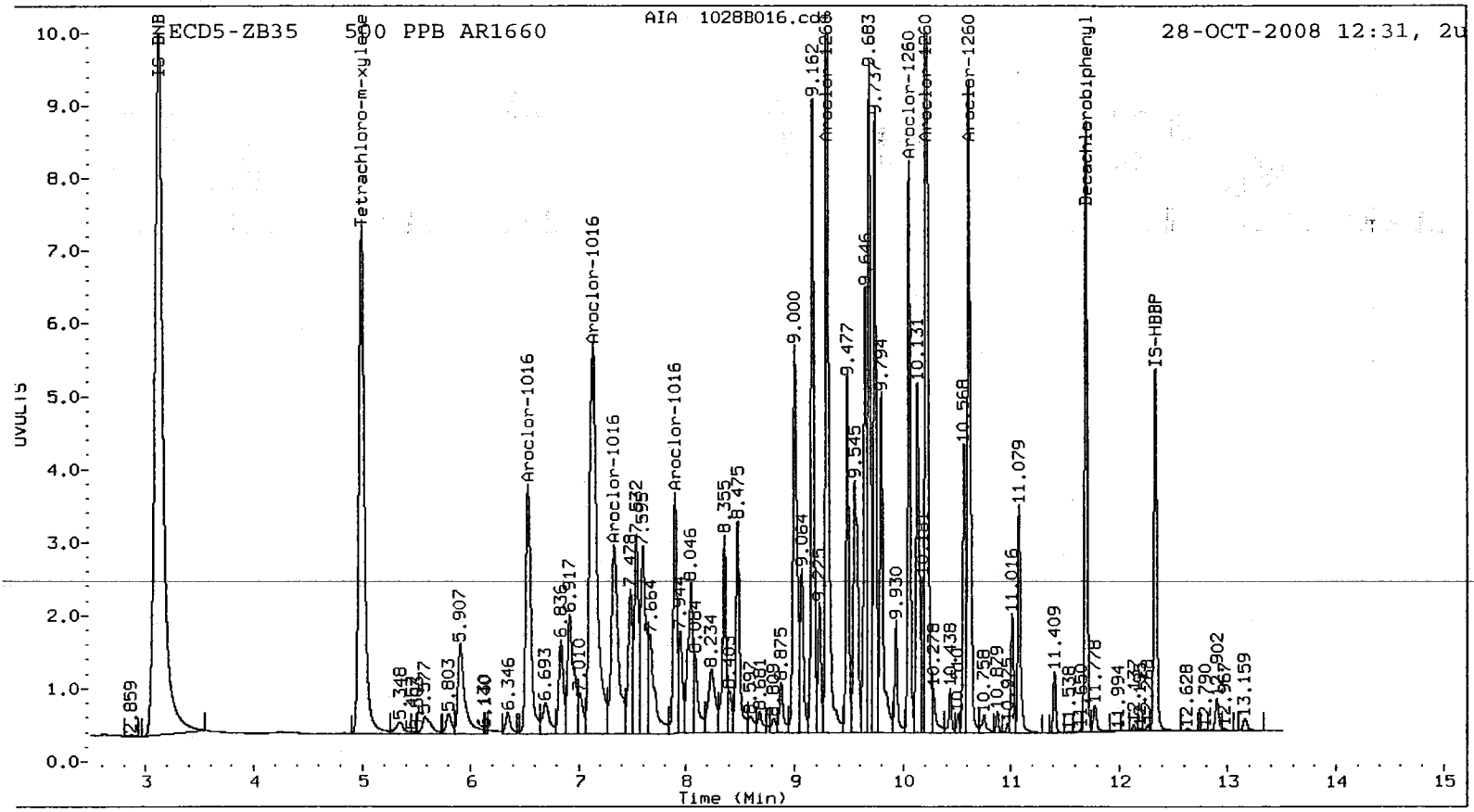
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
IS-HBBP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28-OCT-2008 12:31, 2u
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
IS-HBBP

7F

PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL, LLC.

ARI Job No.: NV61 Project: EDDON BOATYARD

GC Column: ZB5 Intrument: ECD5

Init. Calib. Date: 10/28/08

Date Analyzed :10/28/08

Lab Standard ID: AR1660 ICV Time Analyzed :1248

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1016-1	6.31	6.21	6.41	252.8	250.0	1.1
Aroclor-1016-2	6.69	6.59	6.79	248.2	250.0	-0.7
Aroclor-1016-3	6.83	6.73	6.93	247.8	250.0	-0.9
Aroclor-1016-4	6.94	6.83	7.03	251.2	250.0	0.5

AVERAGE %D = 0.8

Date Analyzed :10/28/08

Lab Standard ID: AR1660 ICV Time Analyzed :1248

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1260-1	9.46	9.36	9.56	243.9	250.0	-2.4
Aroclor-1260-2	9.68	9.58	9.78	240.0	250.0	-4.0
Aroclor-1260-3	9.93	9.83	10.03	244.1	250.0	-2.4
Aroclor-1260-4	10.20	10.10	10.30	241.1	250.0	-3.6
Aroclor-1260-5	10.32	10.22	10.42	244.9	250.0	-2.0

AVERAGE %D = 2.9

7F

PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL, LLC.

ARI Job No.: NV61 Project: EDDON BOATYARD

GC Column: ZB35 Intrument: ECD5

Init. Calib. Date: 10/28/08

Date Analyzed :10/28/08

Lab Standard ID: AR1660 ICV Time Analyzed :1248

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1016-1	6.53	6.43	6.63	233.5	250.0	-6.6
Aroclor-1016-2	7.13	7.03	7.23	251.3	250.0	0.5
Aroclor-1016-3	7.33	7.23	7.43	252.1	250.0	0.8
Aroclor-1016-4	7.90	7.80	8.00	252.0	250.0	0.8

AVERAGE %D = 2.2

Date Analyzed :10/28/08

Lab Standard ID: AR1660 ICV Time Analyzed :1248

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1260-1	9.29	9.19	9.39	235.5	250.0	-5.8
Aroclor-1260-2	10.05	9.95	10.15	242.7	250.0	-2.9
Aroclor-1260-3	10.22	10.12	10.32	243.8	250.0	-2.5
Aroclor-1260-4	10.61	10.51	10.71	240.0	250.0	-4.0

AVERAGE %D = 3.8

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081028.B/ical-1.b/1028B017.d
Data file 2: 20081028.B/ical-2.b/1028B017.d
Method: /chem2/ecd5.i/20081028.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660 ICV
Client ID:
Injection Date: 28-OCT-2008 12:48
Report Date: 10/29/2008 10:27
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.789	0.000	176874	0.000	0.000	0	0.5	0.4	31.2	Tetrachloro-m-xylene
11.350	0.000	141239	0.000	0.000	0	0.9	0.4	78.4*	Decachlorobiphenyl

* Indicates RPD > 40%
1 Indicates Column 1 peak was manually integrated
J Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	1.3	1.0
Decachlorobiphenyl	2.2	1.0

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24393719	24600665	0.8
Hexabromobiphenyl	5010762	5149772	2.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	25207774	25553809	1.4
Hexabromobiphenyl	4413062	4593694	4.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

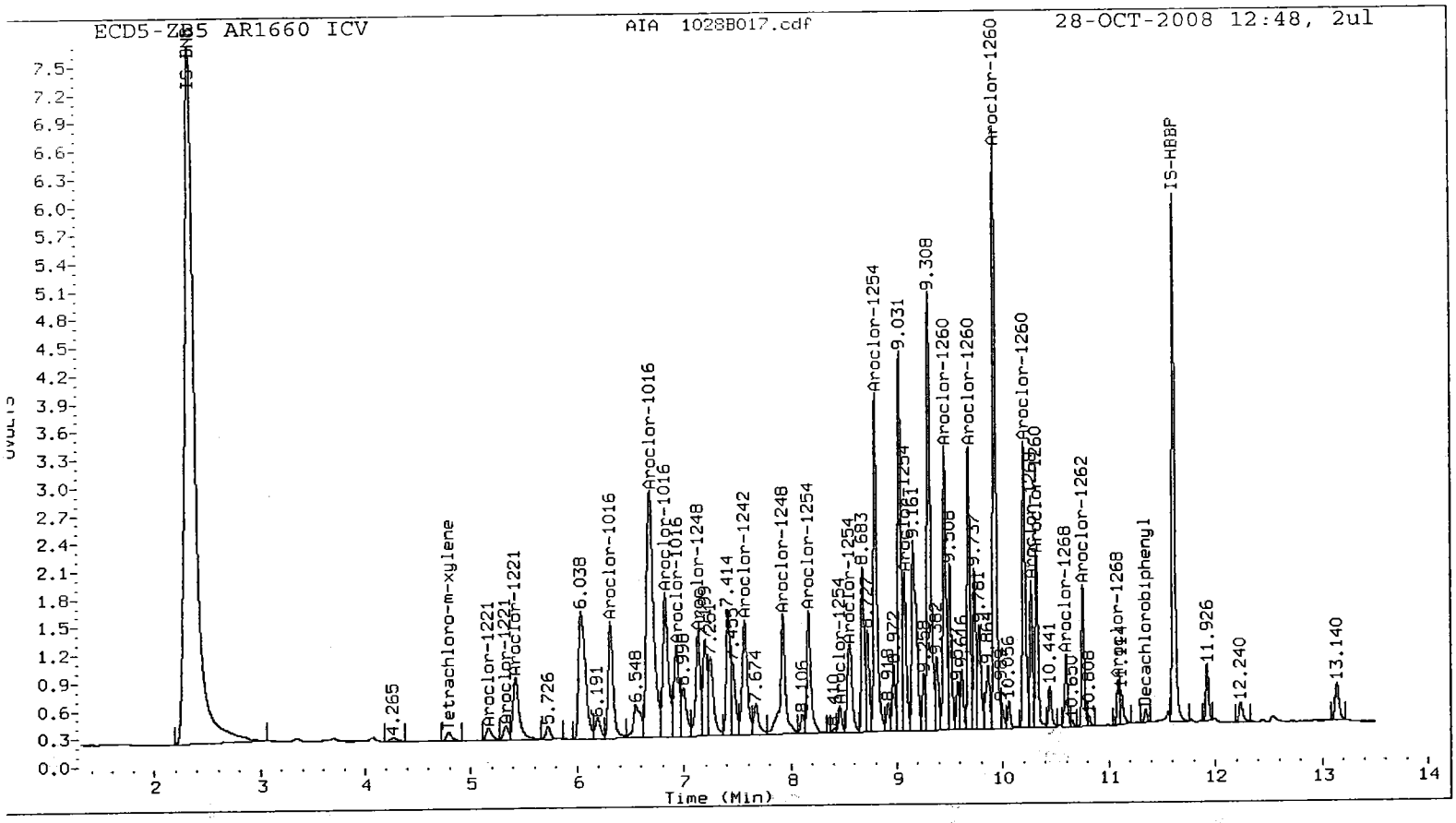
Aroclor	Peak#	RT	ZB5 Col Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	6.313	0.000	2024491	252.8	1	6.532	0.000	2767362	233.5
Aroclor-1016	2	6.686	0.000	5987035	248.2	2	7.133	0.000	6193230	251.3
Aroclor-1016	3	6.827	0.000	2769511	247.8	3	7.328	0.000	2796341	252.1
Aroclor-1016	4	6.935	0.000	1753597	251.2	4	7.896	0.000	1904966	252.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				247.2 RPD = 1
Corrected Ave (3 peaks):					249.1	Corrected Ave (3 peaks):				245.6 RPD = 1
Aroclor-1221	1	5.172	0.000	255071	70.7	1	9.292	0.000	5781231	235.5
Aroclor-1221	2	5.330	0.000	244063	101.5	2	10.053	0.000	3423564	242.7
Aroclor-1221	3	5.424	0.000	1387900	156.8	3	10.217	0.000	7933719	243.8
Aroclor-1221	NS	---			----	4	10.615	0.000	4438251	240.0
Total Col1Ave (3 peaks):					109.6	Total Col2Ave (4 peaks):				240.5 RPD = 75*
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):				239.4
Aroclor-1232	1	5.424	0.000	1387900	180.5	1	3.121	0.000	25553809	80.0
Aroclor-1232	2	6.313	0.000	2024491	527.6	NS	---			----
Aroclor-1232	3	6.686	0.000	5987035	539.3	NS	---			----
Aroclor-1232	4	6.827	0.000	2769511	523.5	NS	---			----
Total Col1Ave (4 peaks):					442.7	Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	6.313	0.000	2024491	276.7	1	12.337	0.000	4593694	80.0
Aroclor-1242	2	6.686	0.000	5987035	279.5	NS	---			----
Aroclor-1242	3	6.827	0.000	2769511	271.0	NS	---			----
Aroclor-1242	4	7.572	0.000	2113139	228.5	NS	---			----
Total Col1Ave (4 peaks):					263.9	Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	6.686	0.000	5987035	431.2	1	5.032	0.000	47611	0.2
Aroclor-1248	2	7.135	0.000	1674863	169.4	NS	---			----
Aroclor-1248	3	7.572	0.000	2113139	155.2	NS	---			----
Aroclor-1248	4	7.927	0.000	2216813	96.1	NS	---			----
Total Col1Ave (4 peaks):					212.9	Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	8.168	0.000	1770837	93.7	1	11.697	0.000	70938	0.4
Aroclor-1254	2	8.462	0.000	327924	27.4	NS	---			----
Aroclor-1254	3	8.557	0.000	1545386	68.1	NS	---			----
Aroclor-1254	4	8.802	0.000	4002302	177.7	NS	---			----
Aroclor-1254	5	9.077	0.000	1718721	134.5	NS	---			----
Total Col1Ave (5 peaks):					100.3	Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	9.458	0.000	2937846	243.9	1	---			0.0
Aroclor-1260	2	9.683	0.000	2745715	240.0	NS	---			----
Aroclor-1260	3	9.926	0.000	6289142	244.1	NS	---			----
Aroclor-1260	4	10.204	0.000	3143387	241.1	NS	---			----
Aroclor-1260	5	10.321	0.000	1653850	244.9	NS	---			----
Total Col1Ave (5 peaks):					242.8	Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	9.683	0.000	2745715	173.8	1	---			0.0
Aroclor-1262	2	9.926	0.000	6289142	181.4	NS	---			----
Aroclor-1262	3	10.204	0.000	3143387	288.5	NS	---			----
Aroclor-1262	4	10.321	0.000	1653850	110.7	NS	---			----
Aroclor-1262	5	10.754	0.000	1261714	124.0	NS	---			----
Total Col1Ave (5 peaks):					175.7	Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	10.271	0.000	1409730	34.2	1	---			0.0
Aroclor-1268	2	10.321	0.000	1653850	43.4	NS	---			----
Aroclor-1268	3	10.596	0.000	716368	24.2	NS	---			----
Aroclor-1268	4	11.086	0.000	415005	6.2	NS	---			----
Total Col1Ave (4 peaks):					27.0	Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (4.889 - 11.250) = 88326225 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.132 - -0.100) = 0 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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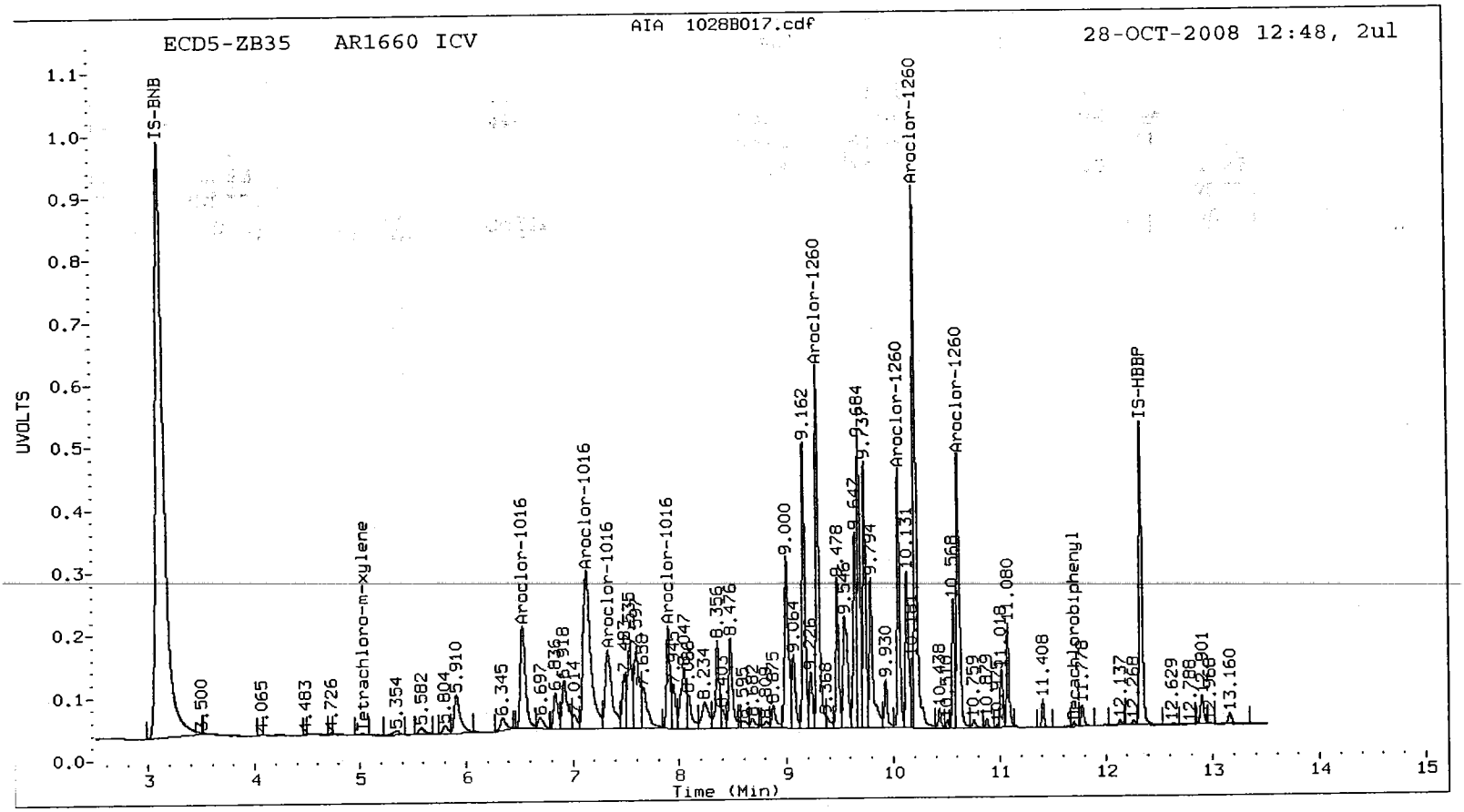
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1016
Aroclor-1248
Aroclor-1242
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP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UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081028.B/ical-1.b/1028B018.d
Data file 2: 20081028.B/ical-2.b/1028B018.d
Method: /chem2/ecd5.i/20081028.B/PCB1.m
Compound Sublist: AR1242
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 250 PPB AR1242
Client ID:
Injection Date: 28-OCT-2008 13:06
Report Date: 10/29/2008 10:27
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.842	0.053	6542520	4.986	-0.046	6464375	20.6	20.7	0.3	Tetrachloro-m-xylene
11.357	0.007	3440791	11.697	0.000	3369719	22.6	19.0	17.4	Decachlorobiphenyl

: Indicates RPD > 40%
1 Indicates Column 1 peak was manually integrated
J Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	51.6	51.7
Decachlorobiphenyl	56.6	47.6

JC 10/29/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24393719	23531056	-3.5
Hexabromobiphenyl	5010762	4943989	-1.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	25207774	25250758	0.2
Hexabromobiphenyl	4413062	4468554	1.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	6.314	0.001	1749621	250.0	1	6.534	0.000	2565475	250.0
Aroclor-1242	2	6.688	0.003	5122155	250.0	2	7.138	0.000	5546065	250.0
Aroclor-1242	3	6.827	0.000	2444188	250.0	3	7.327	0.000	2660300	250.0
Aroclor-1242	4	7.571	-0.001	2211690	250.0	4	7.895	0.000	1769089	250.0

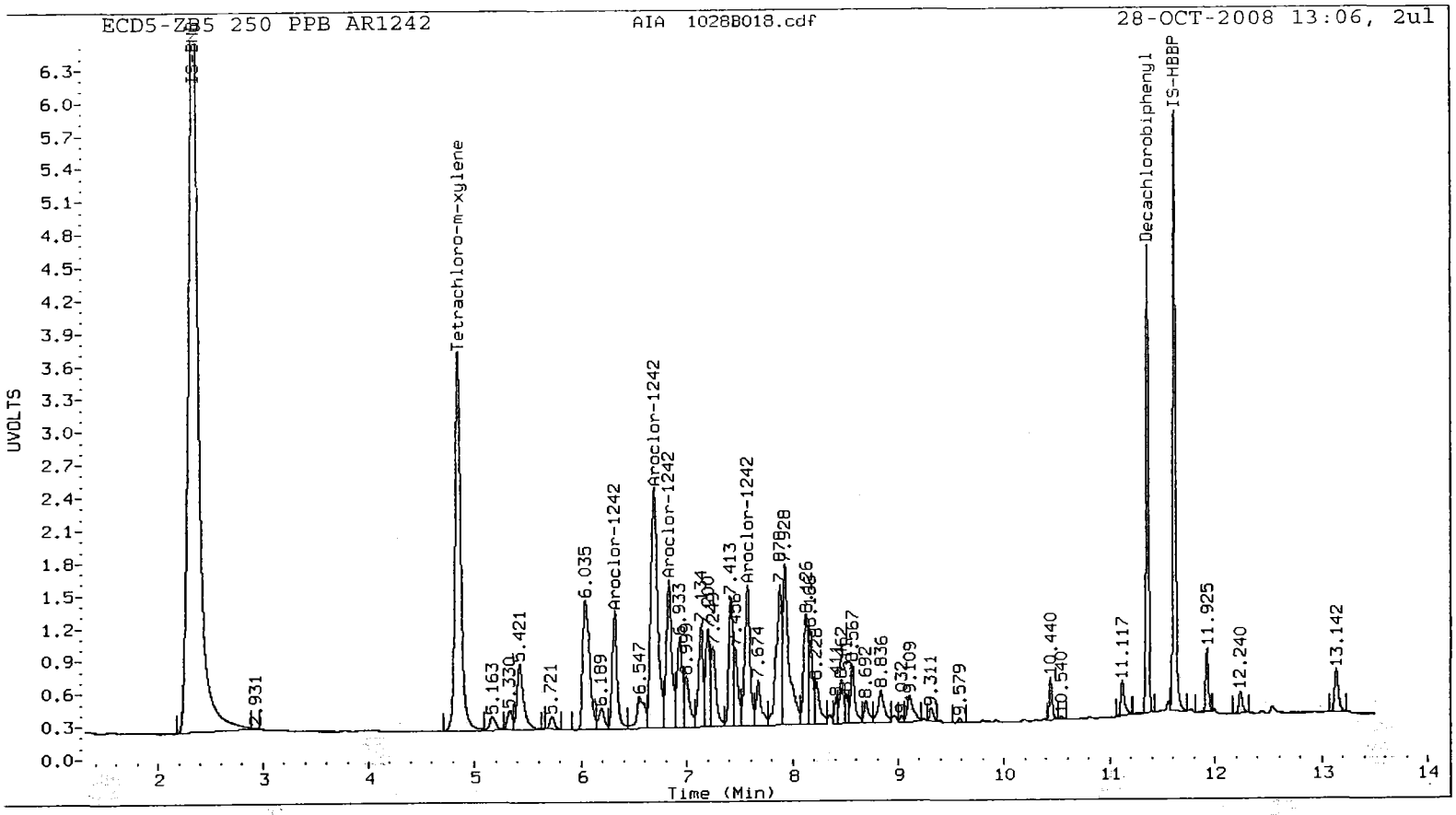
Total Col1Ave (4 peaks): 250.0 Total Col2Ave (4 peaks): 250.0 RPD = 0

Corrected Ave (3 peaks): 250.0 Corrected Ave (3 peaks): 250.0 RPD = 0

Total PCB Area Col1 (4.889 - 11.250) = 39187452 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.132 - 11.597) = 43192101 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical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Time (Min)
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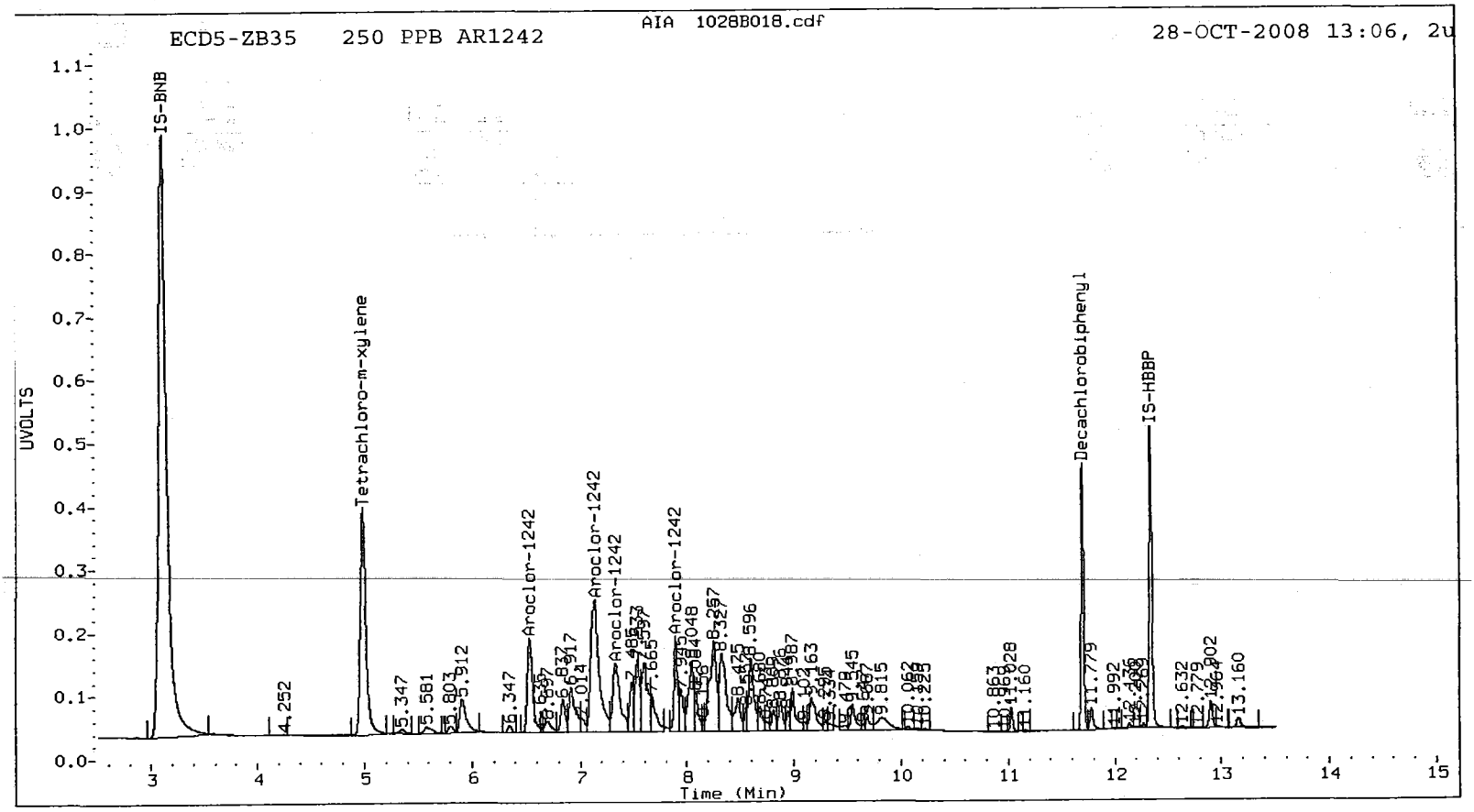
Tetrachloro-m-xylene
Aroclor-1242
Decachlorobiphenyl
IS-HBBP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UVOLTS
Time (Min)
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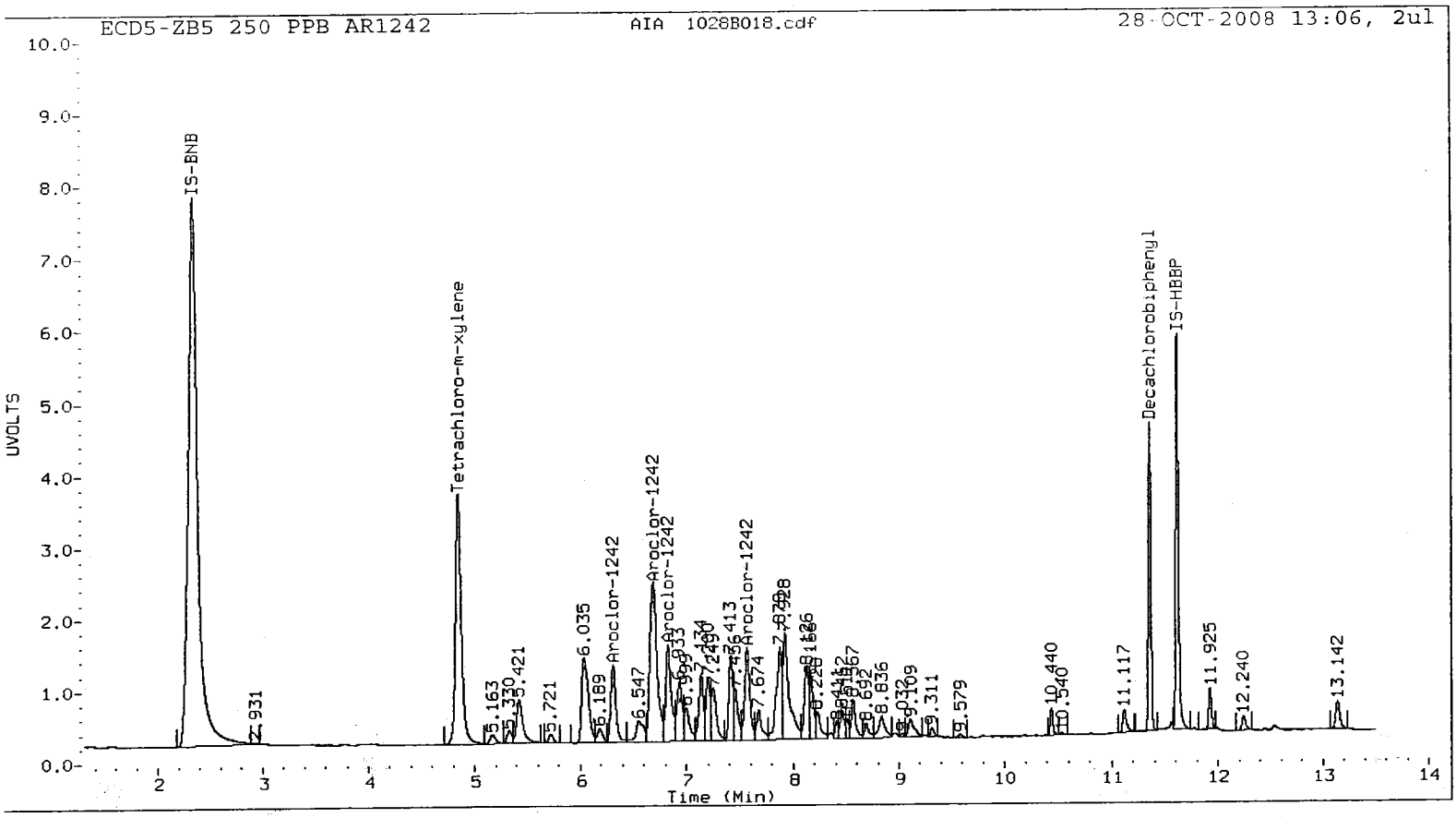
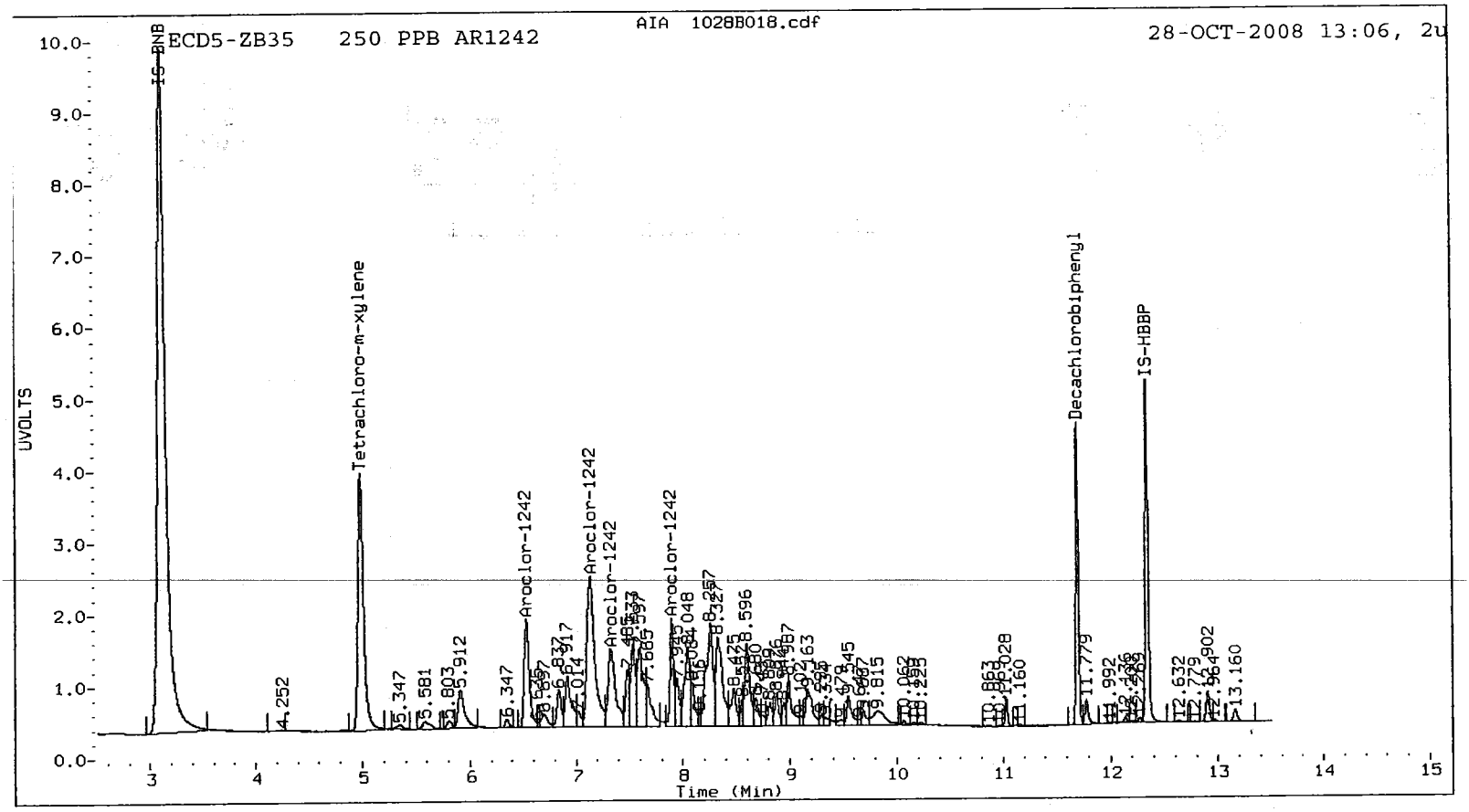
Tetrachloro-m-xylene
Aroclor-1242
Decachlorobiphenyl
IS-HBBP


ECD5-ZB5 250 PPB AR1242
AIA 1028B018.cdf
28-OCT-2008 13:06, 2ul
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1242
Decachlorobiphenyl
IS-HBBP


ECD5-ZB35 250 PPB AR1242
AIA 1028B018.cdf
28-OCT-2008 13:06, 2u
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1242
Decachlorobiphenyl
IS-HBBP

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081028.B/ical-1.b/1028B019.d
Data file 2: 20081028.B/ical-2.b/1028B019.d
Method: /chem2/ecd5.i/20081028.B/PCB1.m
Compound Sublist: AR1248
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 250 PPB AR1248
Client ID:
Injection Date: 28-OCT-2008 13:23
Report Date: 10/29/2008 10:28
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.843	0.054	7604682	4.988	-0.044	7740470	23.8	24.5	2.6	Tetrachloro-m-xylene
11.355	0.005	4032780	11.696	-0.001	3952516	26.6	22.6	16.2	Decachlorobiphenyl

* Indicates RPD > 40%
1 Indicates Column 1 peak was manually integrated
J Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	59.6	61.2
Decachlorobiphenyl	66.5	56.5

JC 10/29/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24393719	23679615	-2.9
Hexabromobiphenyl	5010762	4933109	-1.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	25207774	25573917	1.5
Hexabromobiphenyl	4413062	4411965	0.0

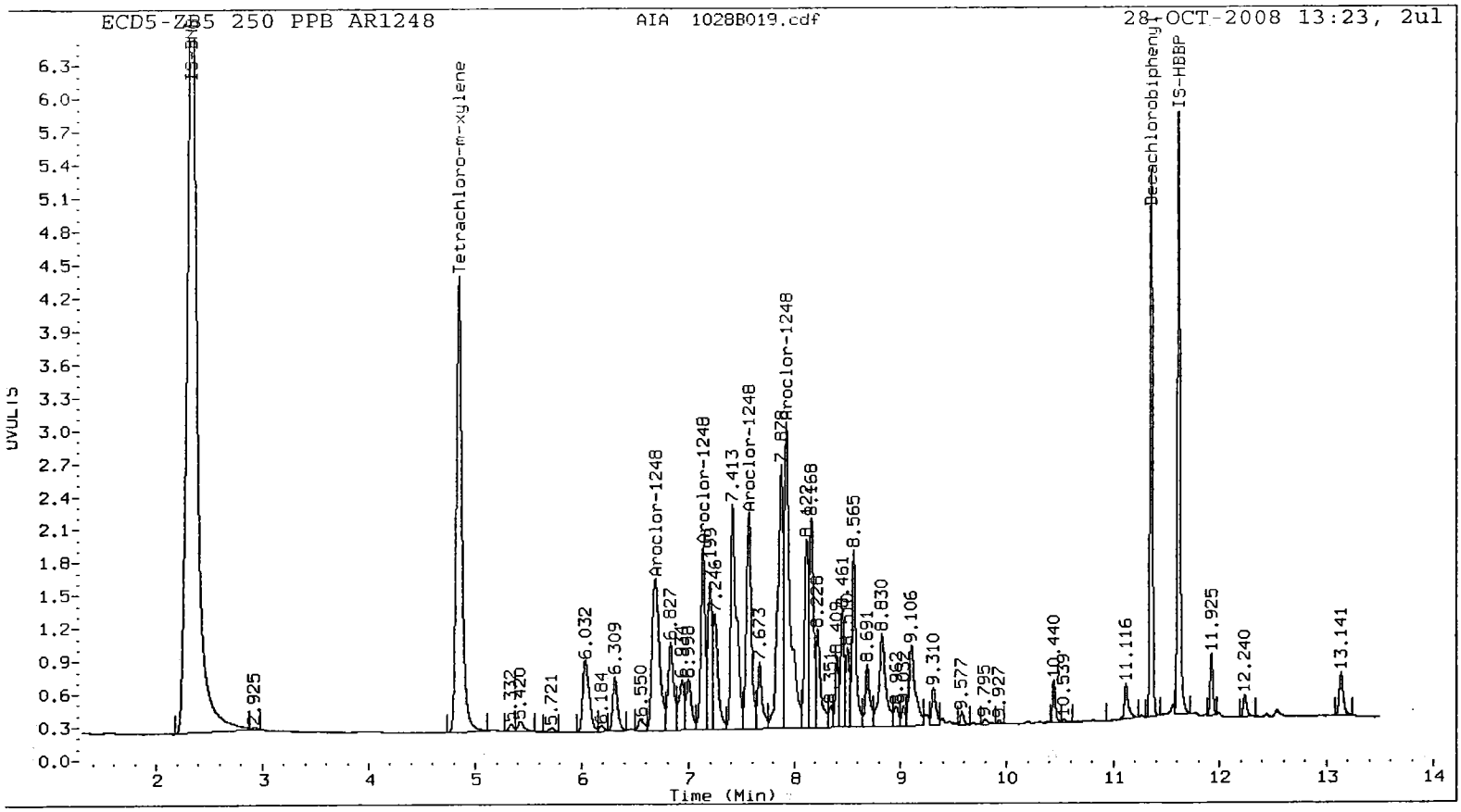
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	6.685	0.000	3341527	250.0	1	7.132	0.000	3625649	250.0
Aroclor-1248	2	7.133	-0.002	2378840	250.0	2	7.534	0.000	2543500	250.0
Aroclor-1248	3	7.568	-0.003	3277435	250.0	3	7.895	0.000	2888766	250.0
Aroclor-1248	4	7.926	-0.001	5553297	250.0	4	8.254	0.000	4298241	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (4.889 - 11.250) = 50550021 Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (5.132 - 11.597) = 55854379 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical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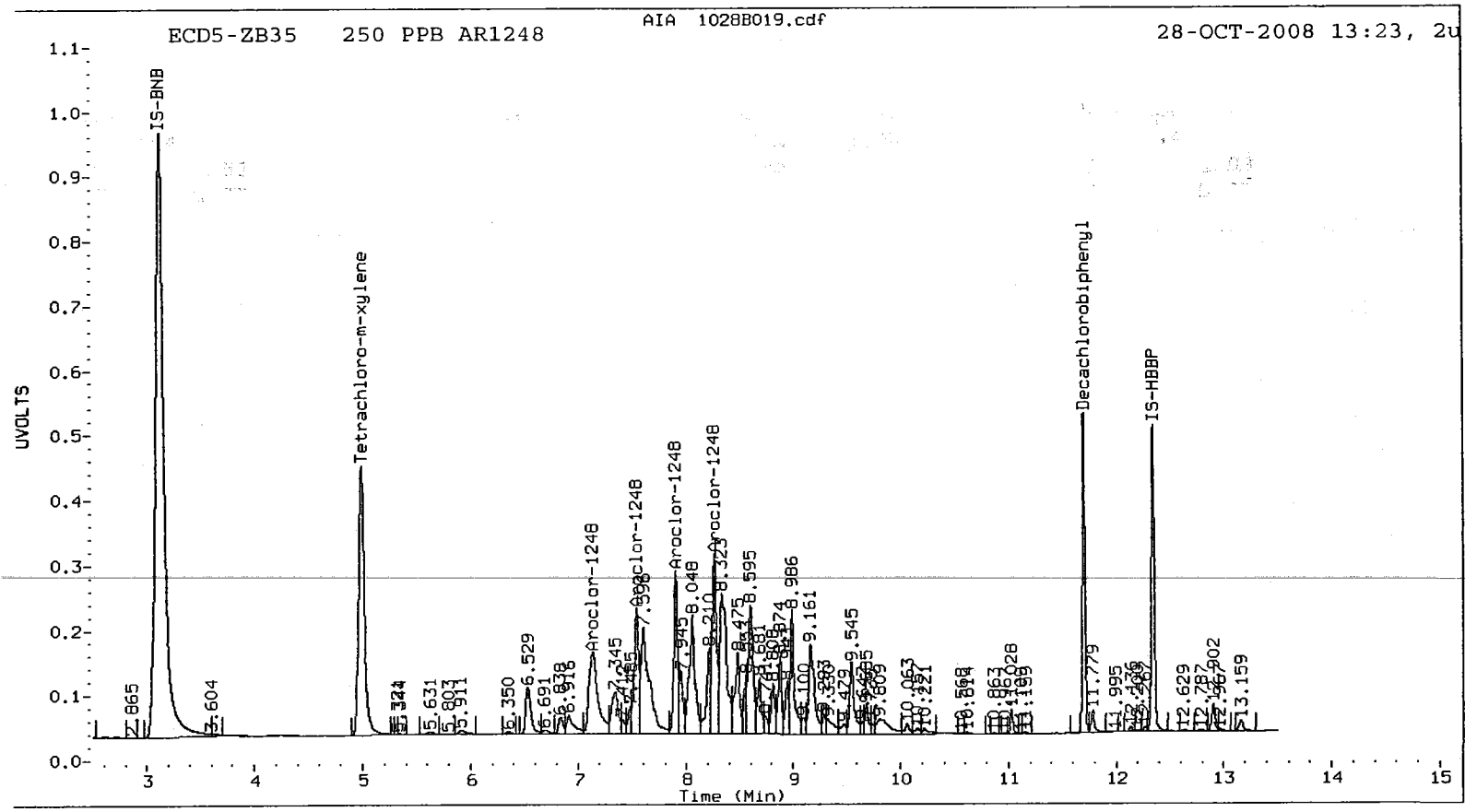
IS-BNB
Tetrachloro-m-xylene
Aroclor-1248
Aroclor-1248
Aroclor-1248
Aroclor-1248
Decachlorobiphenyl
IS-HBBP
Time (Min)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IS-BNB
Tetrachloro-m-xylene
Aroclor-1248
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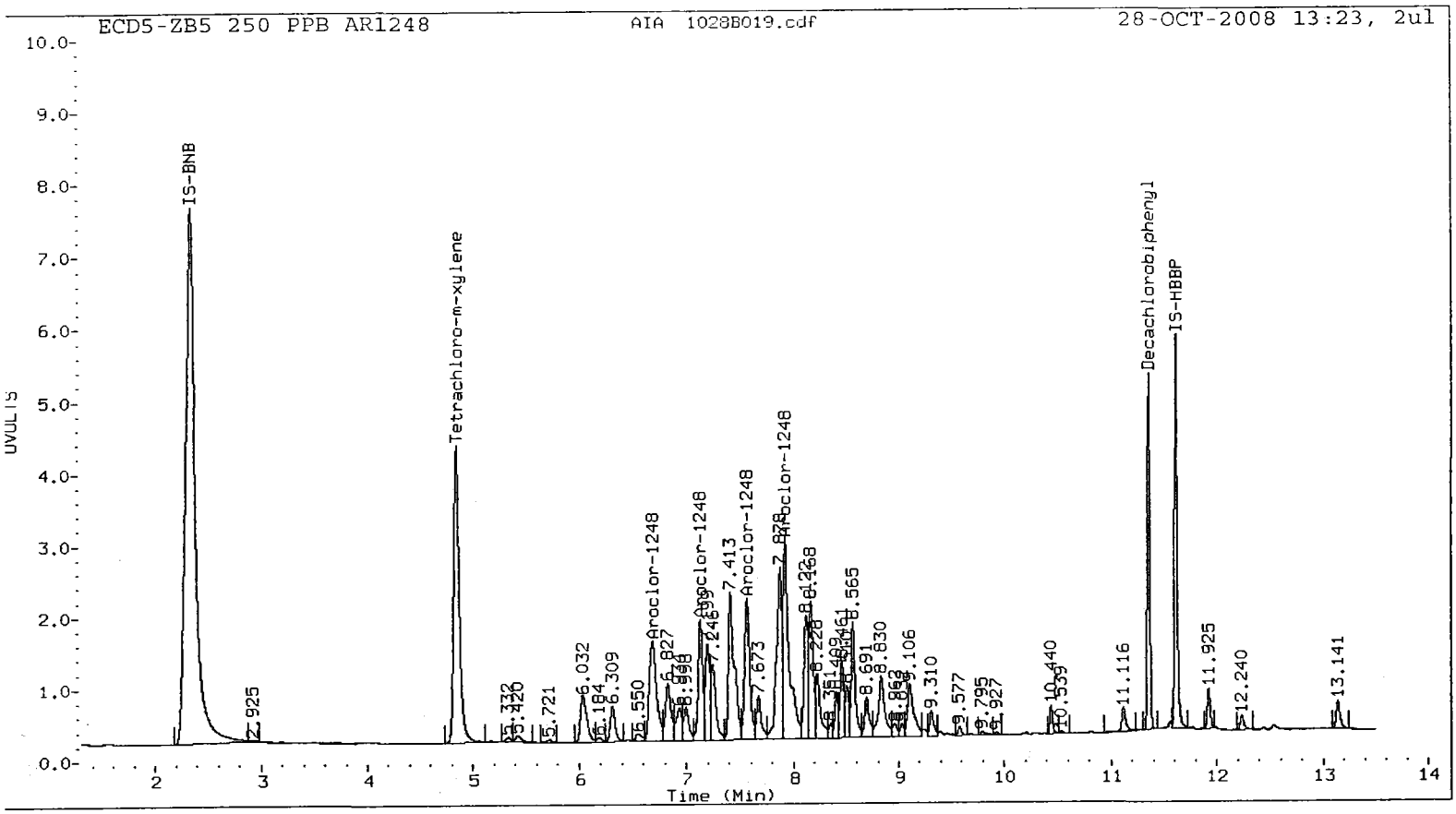
Aroclor-1248
Aroclor-1248
Decachlorobiphenyl
IS-HBBP
Time (Min)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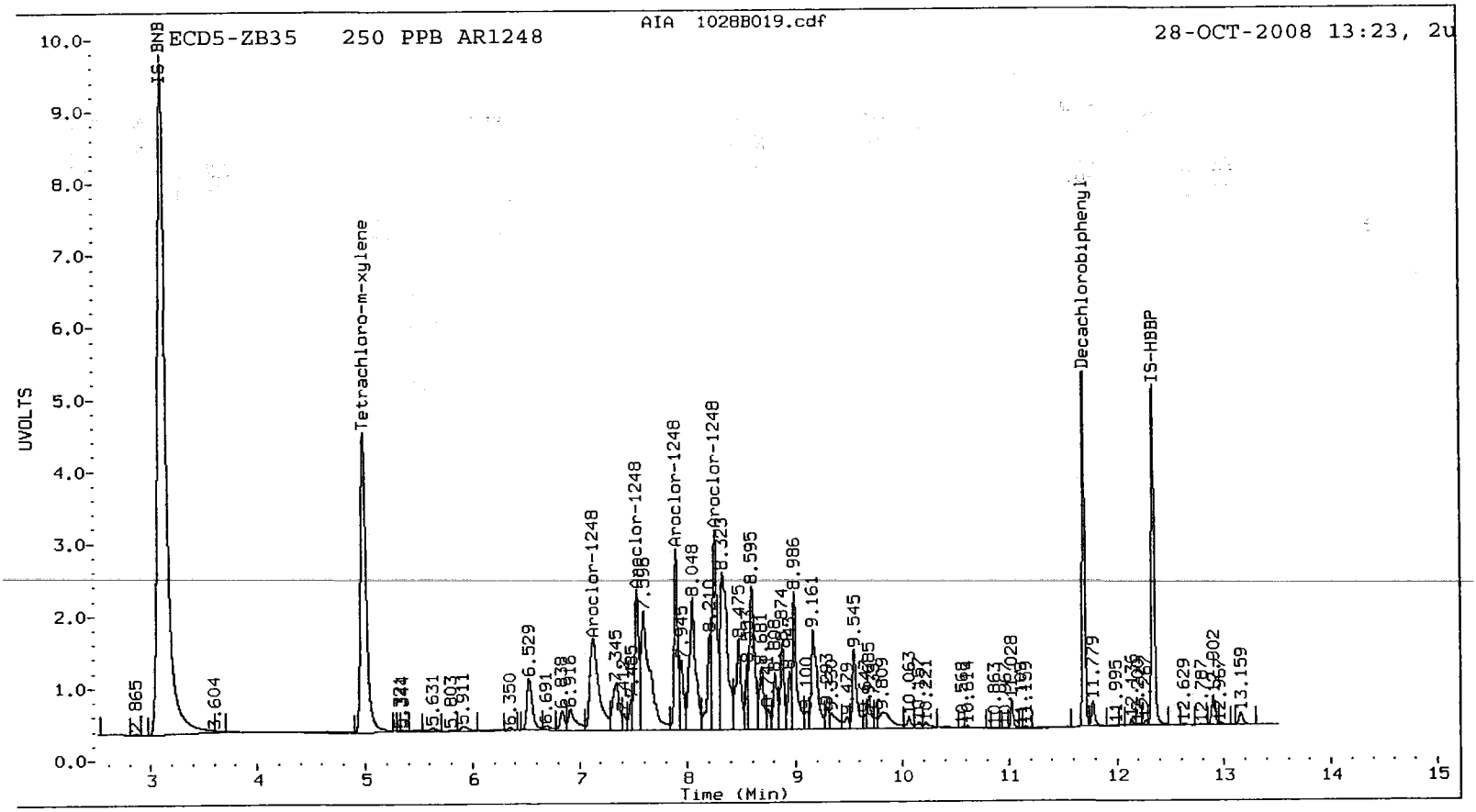
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1248
Decachlorobiphenyl
IS-HBBP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UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1248
Decachlorobiphenyl
IS-HBBP

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081028.B/ical-1.b/1028B020.d
Data file 2: 20081028.B/ical-2.b/1028B020.d
Method: /chem2/ecd5.i/20081028.B/PCB1.m
Compound Sublist: AR1254
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 250 PPB AR1254
Client ID:
Injection Date: 28-OCT-2008 13:40
Report Date: 10/29/2008 10:28
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.846	0.056	7669331	4.985	-0.047	7570632	23.8	24.4	2.5	Tetrachloro-m-xylene
11.355	0.005	4093853	11.697	-0.001	4028871	26.6	22.6	15.9	Decachlorobiphenyl

. Indicates RPD > 40%
I Indicates Column 1 peak was manually integrated
I Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	59.4	60.9
Decachlorobiphenyl	66.4	56.6

10/29/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24393719	23951421	-1.8
Hexabromobiphenyl	5010762	5017070	0.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	25207774	25108701	-0.4
Hexabromobiphenyl	4413062	4489688	1.7

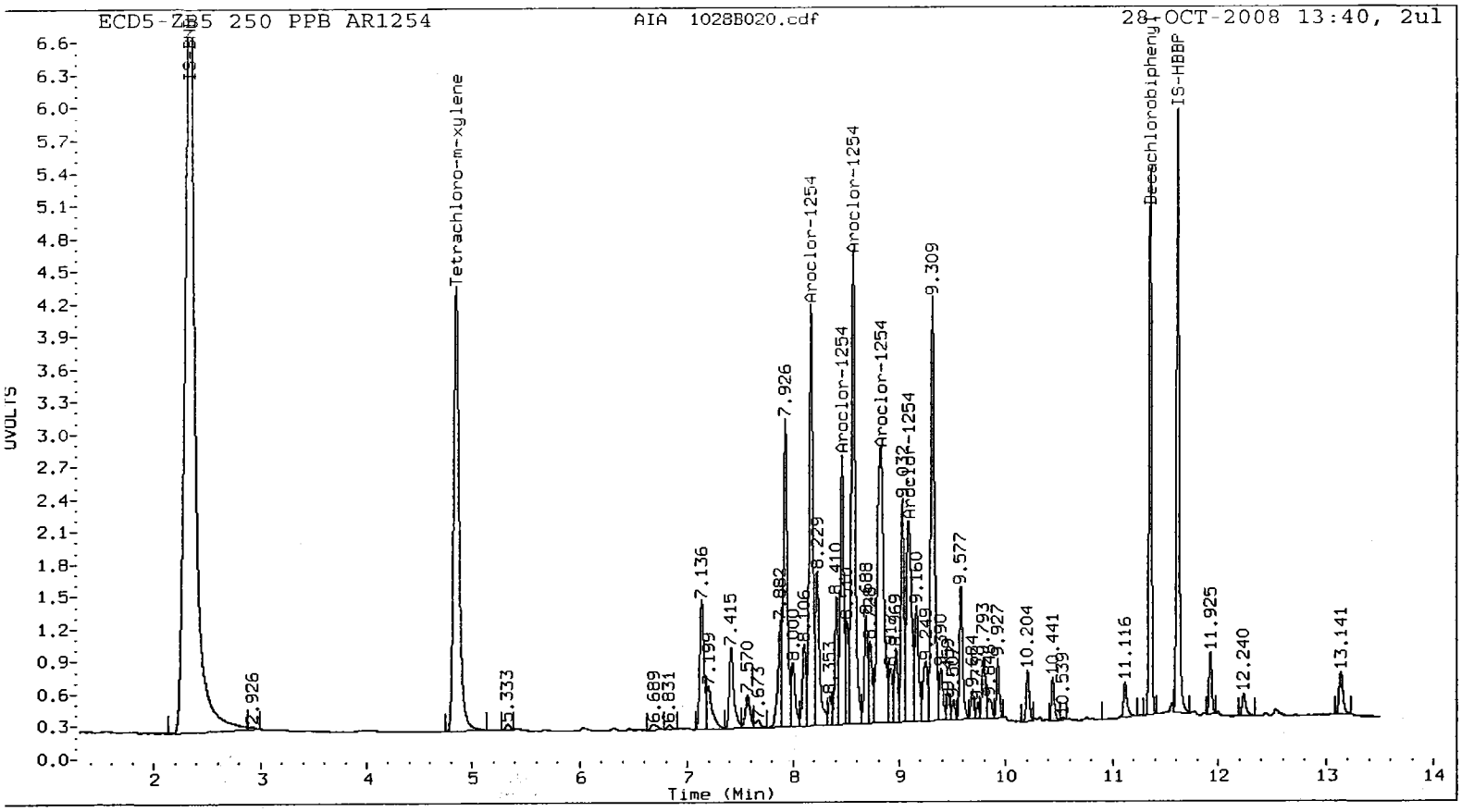
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254 1	8.169	0.001	4602107	250.0	1	8.476	0.000	4388804	250.0
Aroclor-1254 2	8.462	0.000	2908398	250.0	2	8.876	0.000	2917049	250.0
Aroclor-1254 3	8.565	0.008	5527121	250.0	3	8.986	0.000	6276141	250.0
Aroclor-1254 4	8.824	0.022	5481601	250.0	4	9.162	0.000	6508201	250.0
Aroclor-1254 5	9.086	0.009	3109210	250.0	5	9.545	0.000	3750545	250.0
Total Col1Ave (5 peaks):				250.0	Total Col2Ave (5 peaks):			250.0	RPD = 0
Corrected Ave (4 peaks):				250.0	Corrected Ave (4 peaks):			250.0	RPD = 0

Total PCB Area Col1 (4.889 - 11.250) = 54717974 Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (5.132 - 11.597) = 58204211 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical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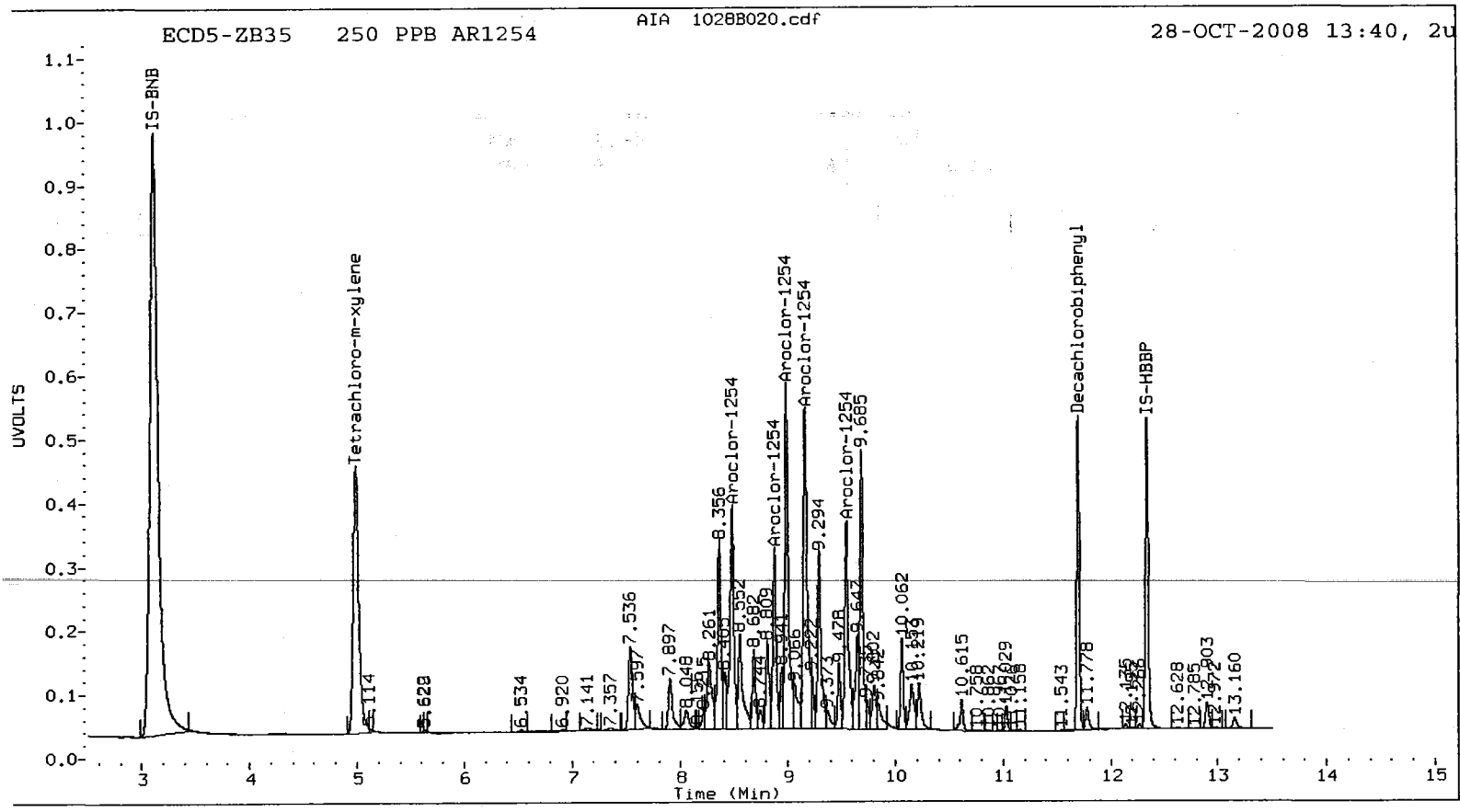
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1254
Decachlorobiphenyl
IS-HBBP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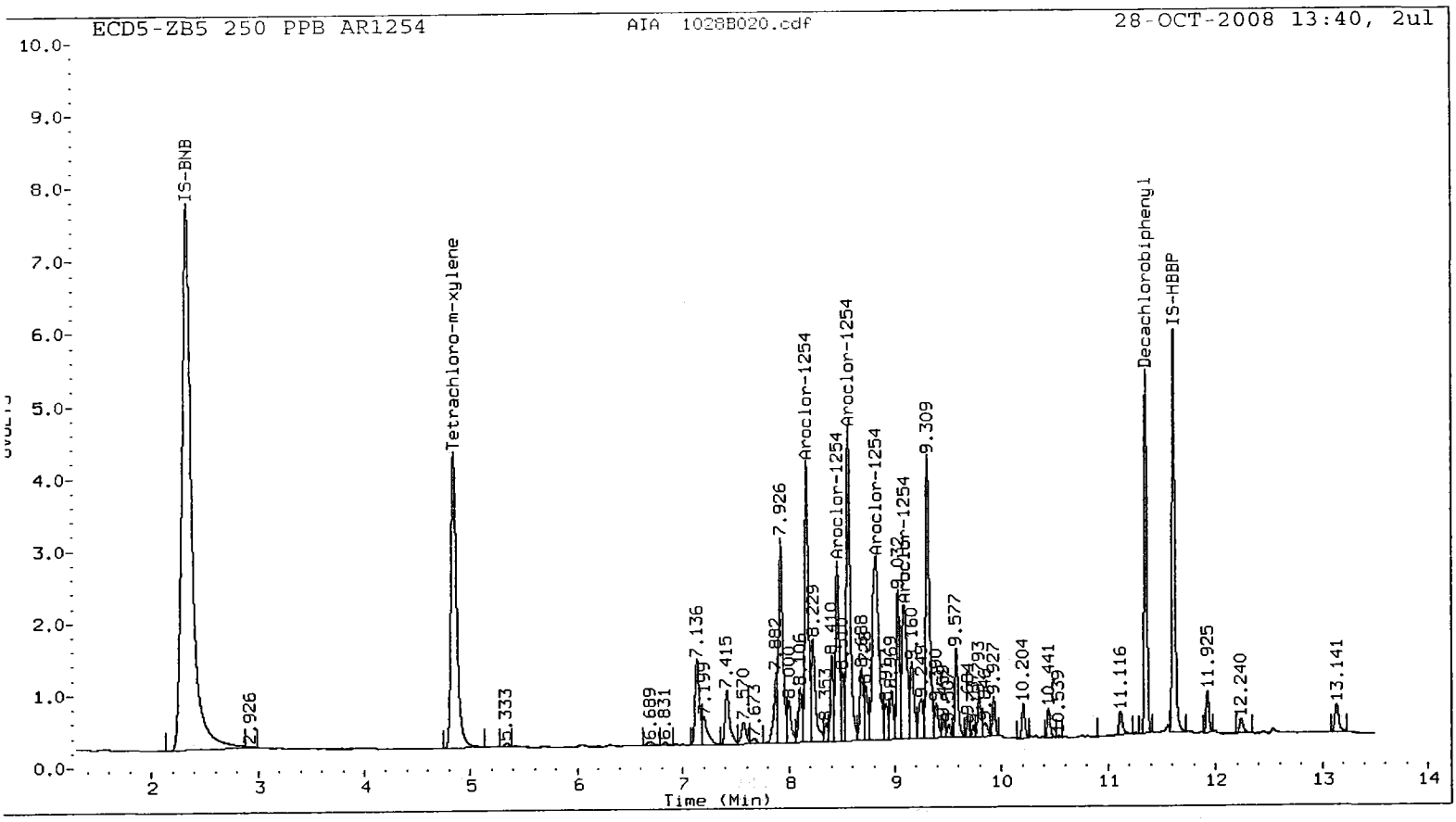
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1254
Decachlorobiphenyl
IS-HBBP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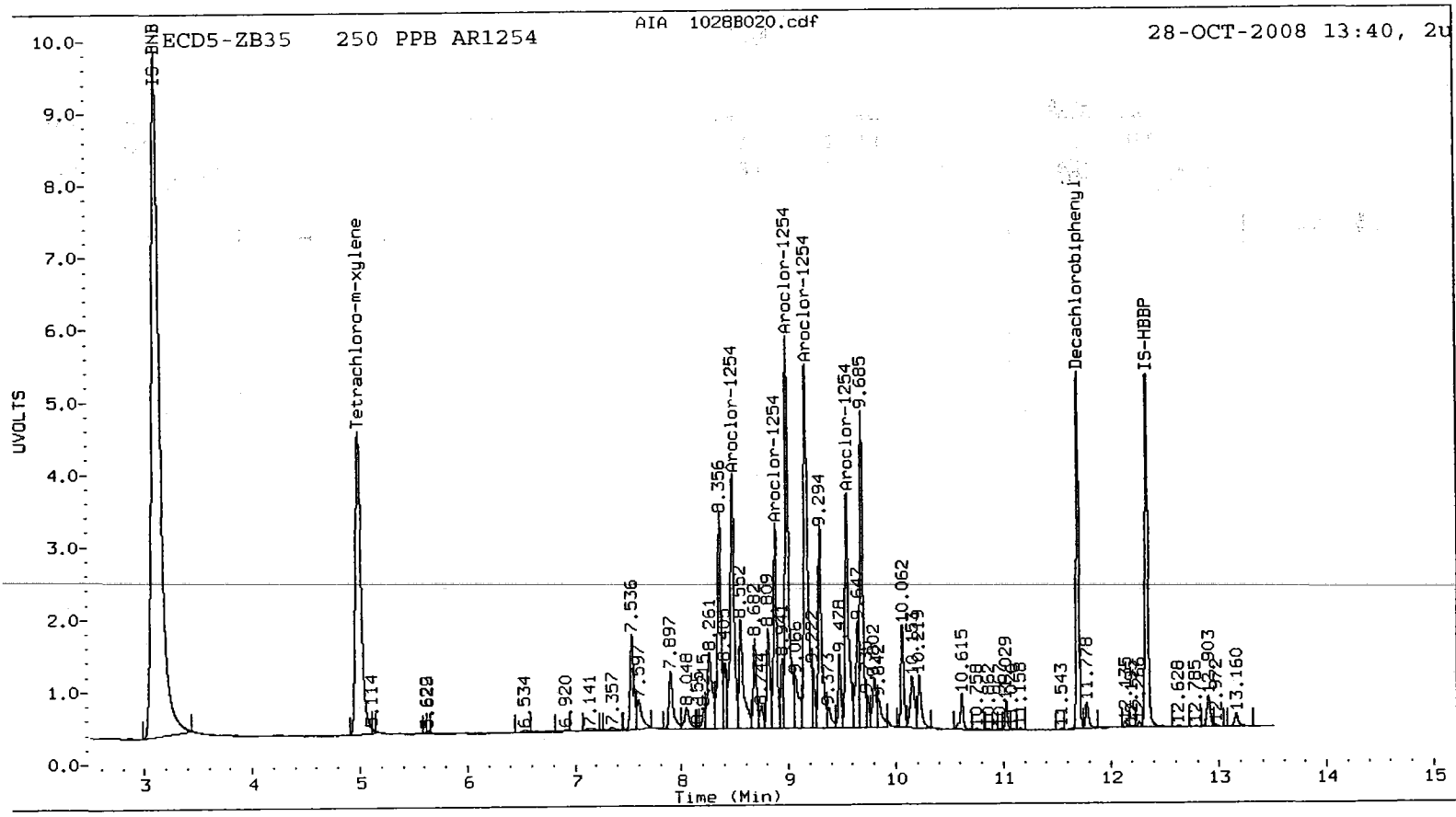
Tetrachloro-m-xylene
Aroclor-1254
Decachlorobiphenyl
IS-HBBP
Time (Min)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28-OCT-2008 13:40, 2u
UVOLTS
IS-BNB
Tetrachloro-m-xylene
Aroclor-1254
Decachlorobiphenyl
IS-HBBP
Time (Min)

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081028.B/ical-1.b/1028B021.d
Data file 2: 20081028.B/ical-2.b/1028B021.d
Method: /chem2/ecd5.i/20081028.B/PCB1.m
Compound Sublist: AR2162
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 250 PPB AR2162
Client ID:
Injection Date: 28-OCT-2008 13:58
Report Date: 10/29/2008 10:28
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.844	0.055	7851819	4.990	-0.043	7710571	24.5	25.3	3.2	Tetrachloro-m-xylene
11.356	0.006	4191509	11.697	0.000	4130360	27.0	23.2	15.4	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	61.3	63.3
Decachlorobiphenyl	67.5	57.9

10/29/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24393719	23765720	-2.6
Hexabromobiphenyl	5010762	5050334	0.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	25207774	24609248	-2.4
Hexabromobiphenyl	4413062	4502012	2.0

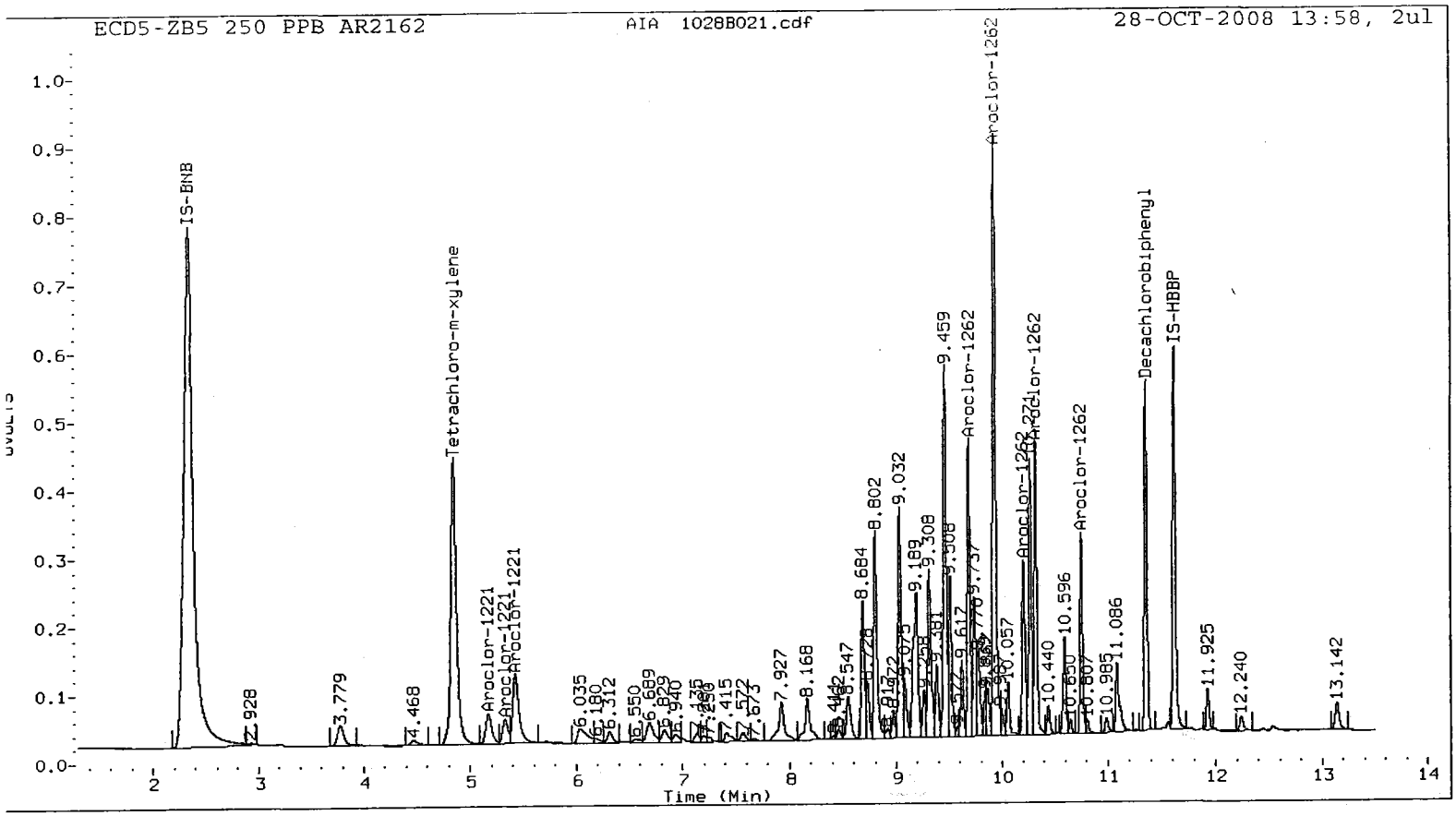
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1221	1	5.168	-0.003	871749	250.0	1	5.580	0.000	852088	250.0
Aroclor-1221	2	5.327	-0.004	580802	250.0	2	5.804	0.000	436652	250.0
Aroclor-1221	3	5.422	-0.002	2138353	250.0	3	5.909	0.000	1931537	250.0
Aroclor-1221	NS	---			----	4	7.143	0.000	543334	250.0
	Total Col1Ave (3 peaks):				250.0	Total Col2Ave (4 peaks):			250.0	RPD = 0
	Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):			250.0	
Aroclor-1262	1	9.684	0.001	3873784	250.0	1	10.054	0.000	4828444	250.0
Aroclor-1262	2	9.926	0.000	8501054	250.0	2	10.218	0.000	11174214	250.0
Aroclor-1262	3	10.205	0.001	2671501	250.0	3	10.566	0.000	4270618	250.0
Aroclor-1262	4	10.321	0.000	3661835	250.0	4	10.615	0.000	6139172	250.0
Aroclor-1262	5	10.754	0.000	2495056	250.0	5	11.080	0.000	2555943	250.0
	Total Col1Ave (5 peaks):				250.0	Total Col2Ave (5 peaks):			250.0	RPD = 0
	Corrected Ave (4 peaks):				250.0	Corrected Ave (4 peaks):			250.0	RPD = 0

Total PCB Area Col1 (4.889 - 11.250) = 71383636 Col1 Total PCB = 0.4 ppm*

Total PCB Area Col2 (5.132 - 11.597) = 78186424 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical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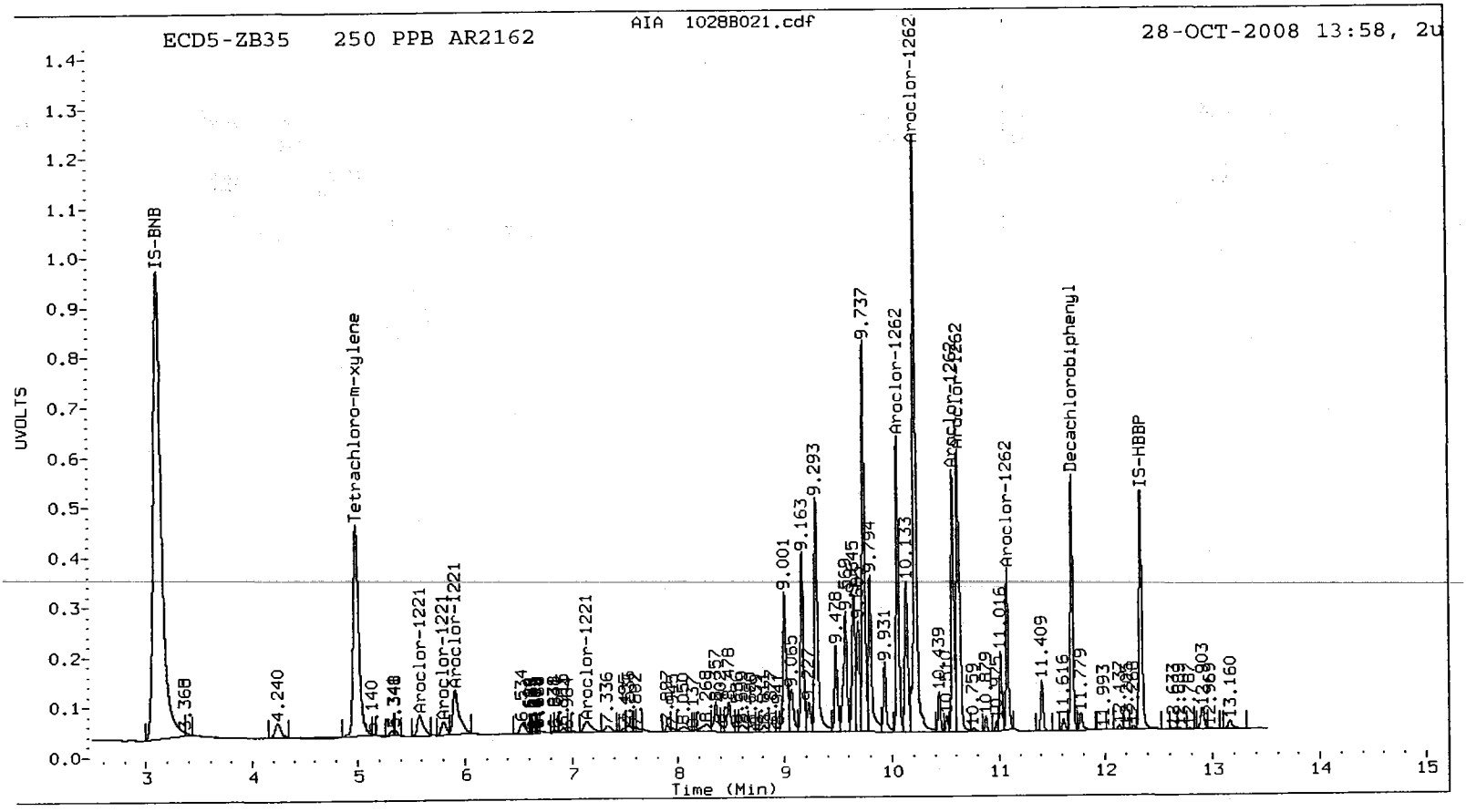
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1262
Decachlorobiphenyl
IS-HBBP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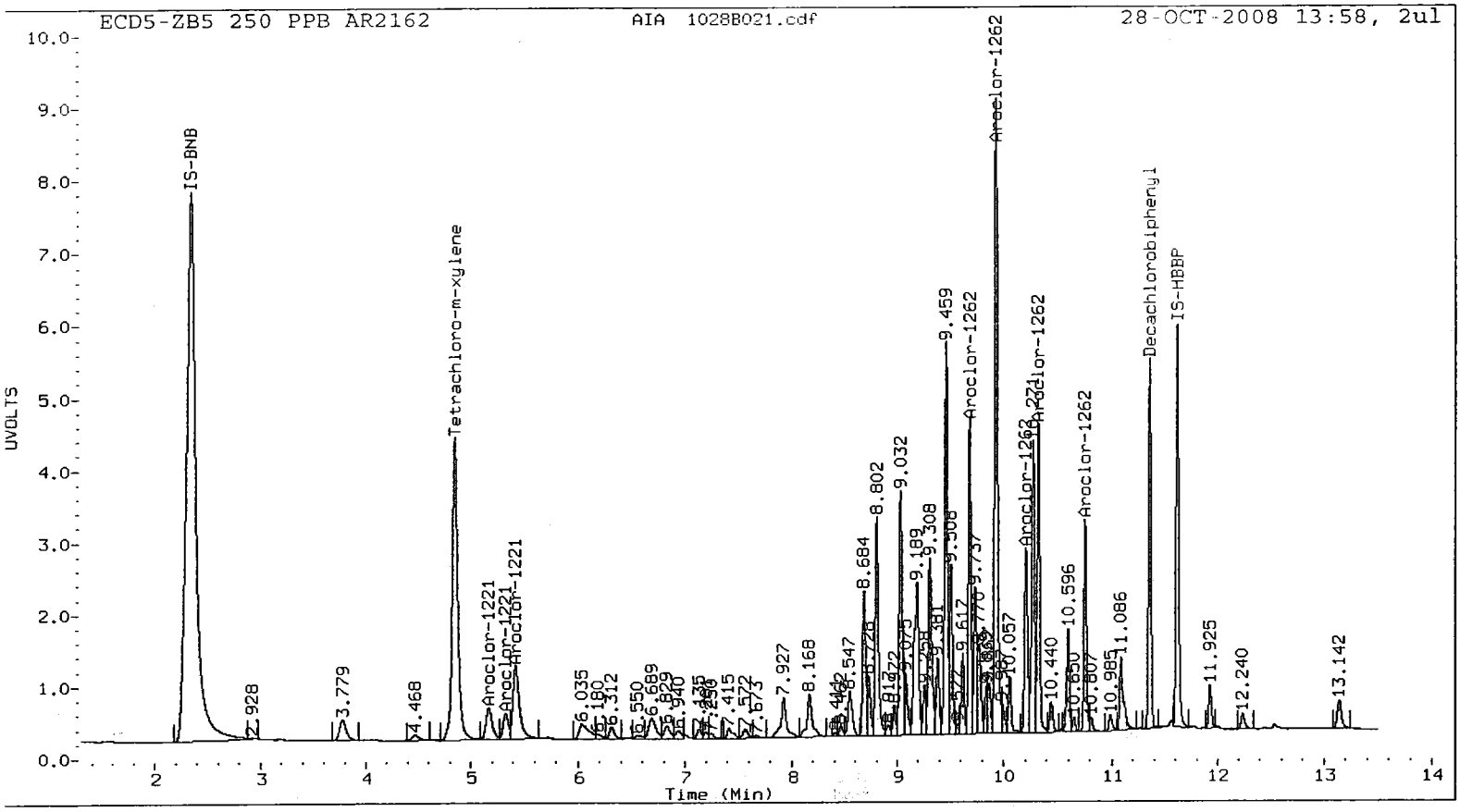
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1262
Decachlorobiphenyl
IS-HBBP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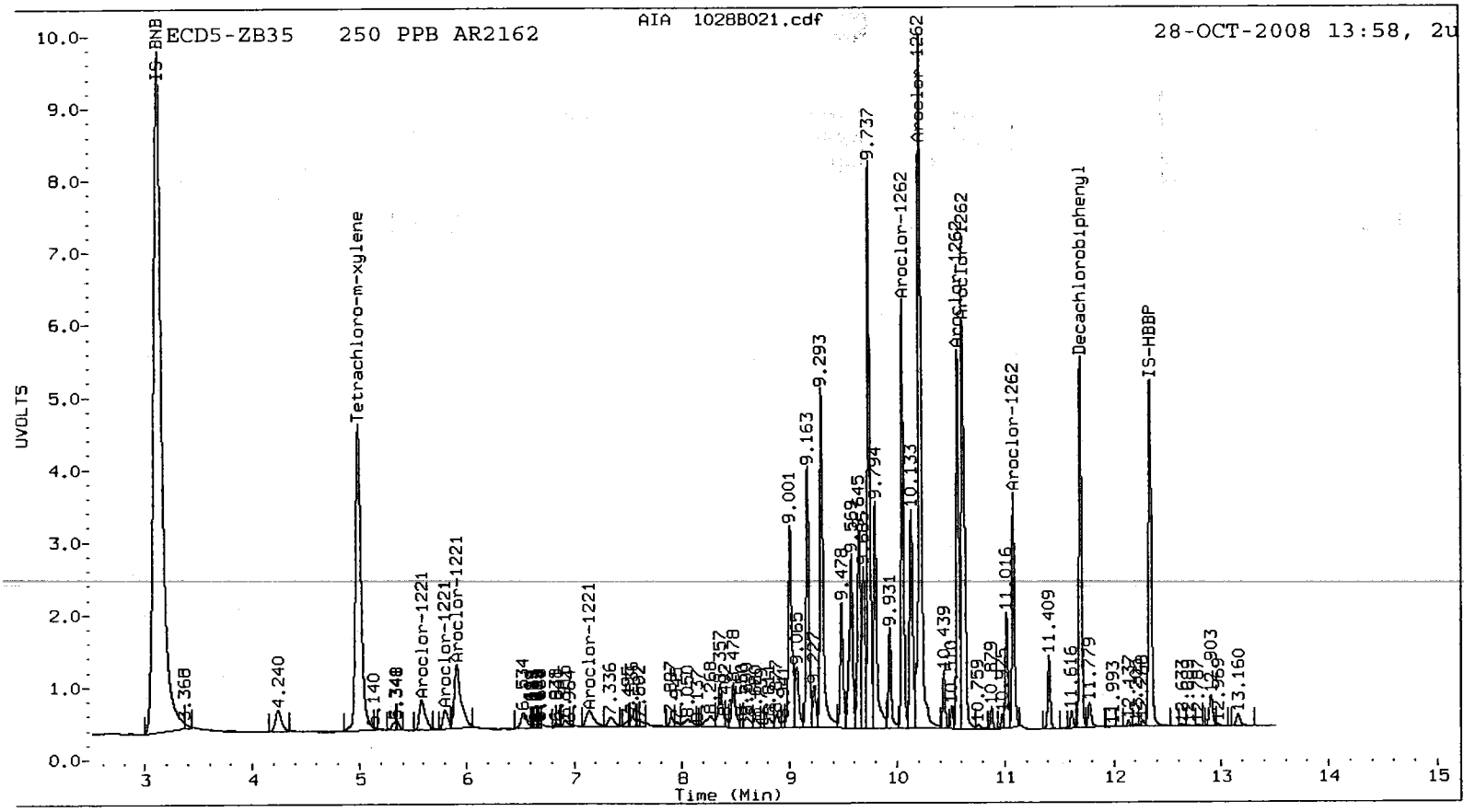
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Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1262
Decachlorobiphenyl
IS-HBBP

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081028.B/ical-1.b/1028B022.d
Data file 2: 20081028.B/ical-2.b/1028B022.d
Method: /chem2/ecd5.i/20081028.B/PCB1.m
Compound Sublist: AR3268
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: 250 PPB AR3268
Client ID:
Injection Date: 28-OCT-2008 14:15
Report Date: 10/29/2008 10:28
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.845	0.055	7601874	4.989	-0.044	7556259	23.8	24.0	0.6	Tetrachloro-m-xylene
11.355	0.005	6452255	11.697	0.000	6452558	41.4	36.2	13.4	Decachlorobiphenyl

* Indicates RPD > 40%
1 Indicates Column 1 peak was manually integrated
J Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	59.6	59.9
Decachlorobiphenyl	103.5	90.5

JR 10/29/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24393719	23676695	-2.9
Hexabromobiphenyl	5010762	5073492	1.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	25207774	25475340	1.1
Hexabromobiphenyl	4413062	4499460	2.0

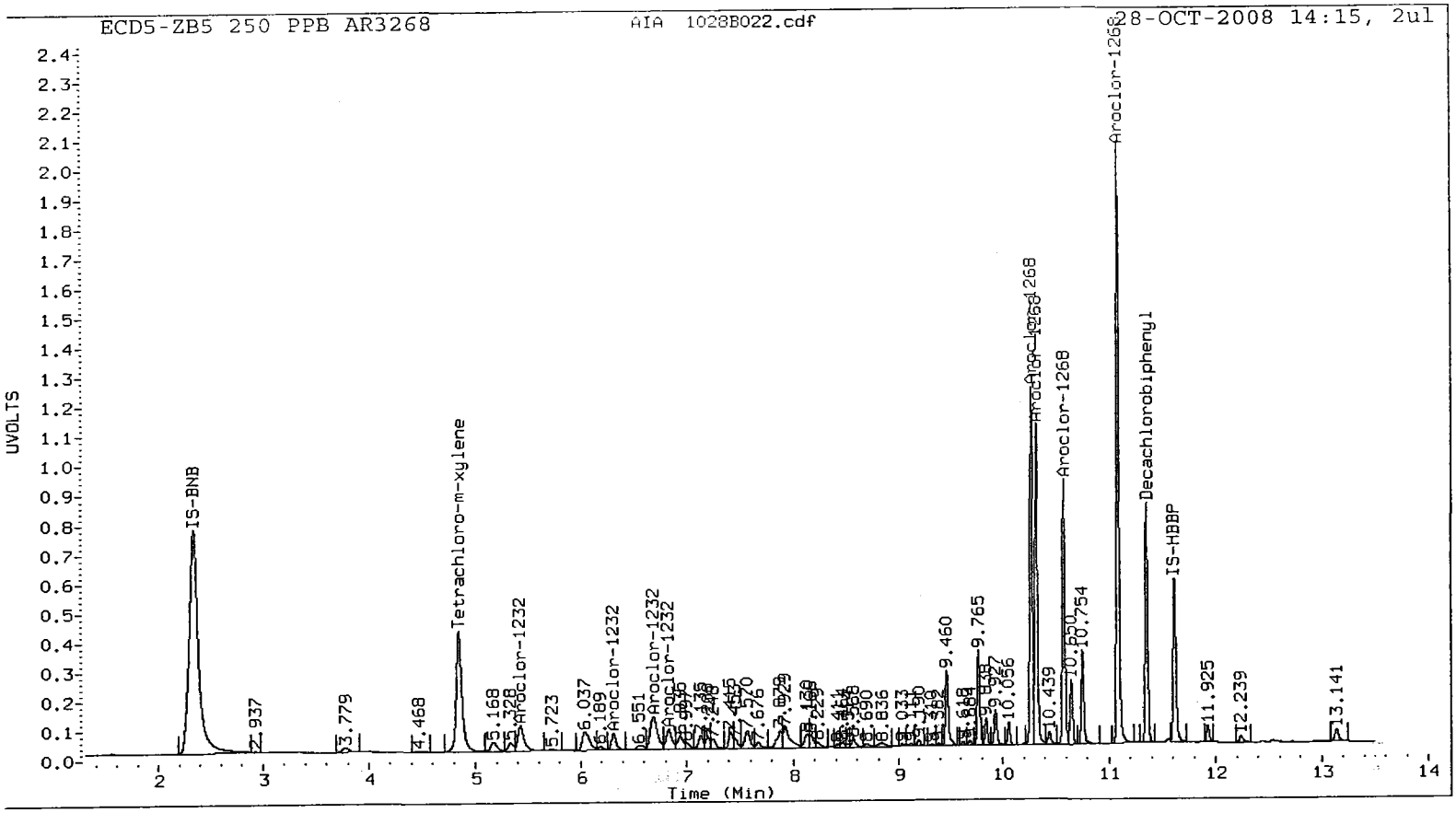
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1232	1	5.424	0.000	1850505	250.0	1	5.908	0.000	1813577	250.0
Aroclor-1232	2	6.313	0.000	923177	250.0	2	6.534	0.000	1309216	250.0
Aroclor-1232	3	6.690	0.004	2671177	250.0	3	7.140	0.000	2714307	250.0
Aroclor-1232	4	6.829	0.003	1272952	250.0	4	7.336	0.000	1236794	250.0
	Total Col1Ave (4 peaks):				250.0	Total Col2Ave (4 peaks):			250.0	RPD = 0
	Corrected Ave (3 peaks):				250.0	Corrected Ave (3 peaks):			250.0	RPD = 0
Aroclor-1268	1	10.272	0.001	10156757	250.0	1	10.566	0.000	11773384	250.0
Aroclor-1268	2	10.321	0.000	9393768	250.0	2	10.615	0.000	10461876	250.0
Aroclor-1268	3	10.579	-0.017	7293949	250.0	3	10.880	0.000	7798972	250.0
Aroclor-1268	4	11.084	-0.002	16408474	250.0	4	11.410	0.000	16890436	250.0
	Total Col1Ave (4 peaks):				250.0	Total Col2Ave (4 peaks):			250.0	RPD = 0
	Corrected Ave (3 peaks):				250.0	Corrected Ave (3 peaks):			250.0	RPD = 0

Total PCB Area Col1 (4.889 - 11.250) = 78281595 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.132 - 11.597) = 84898500 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical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UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1232
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Aroclor-1268
Aroclor-1268
Aroclor-1268
Aroclor-1268
Decachlorobiphenyl
IS-HBBP
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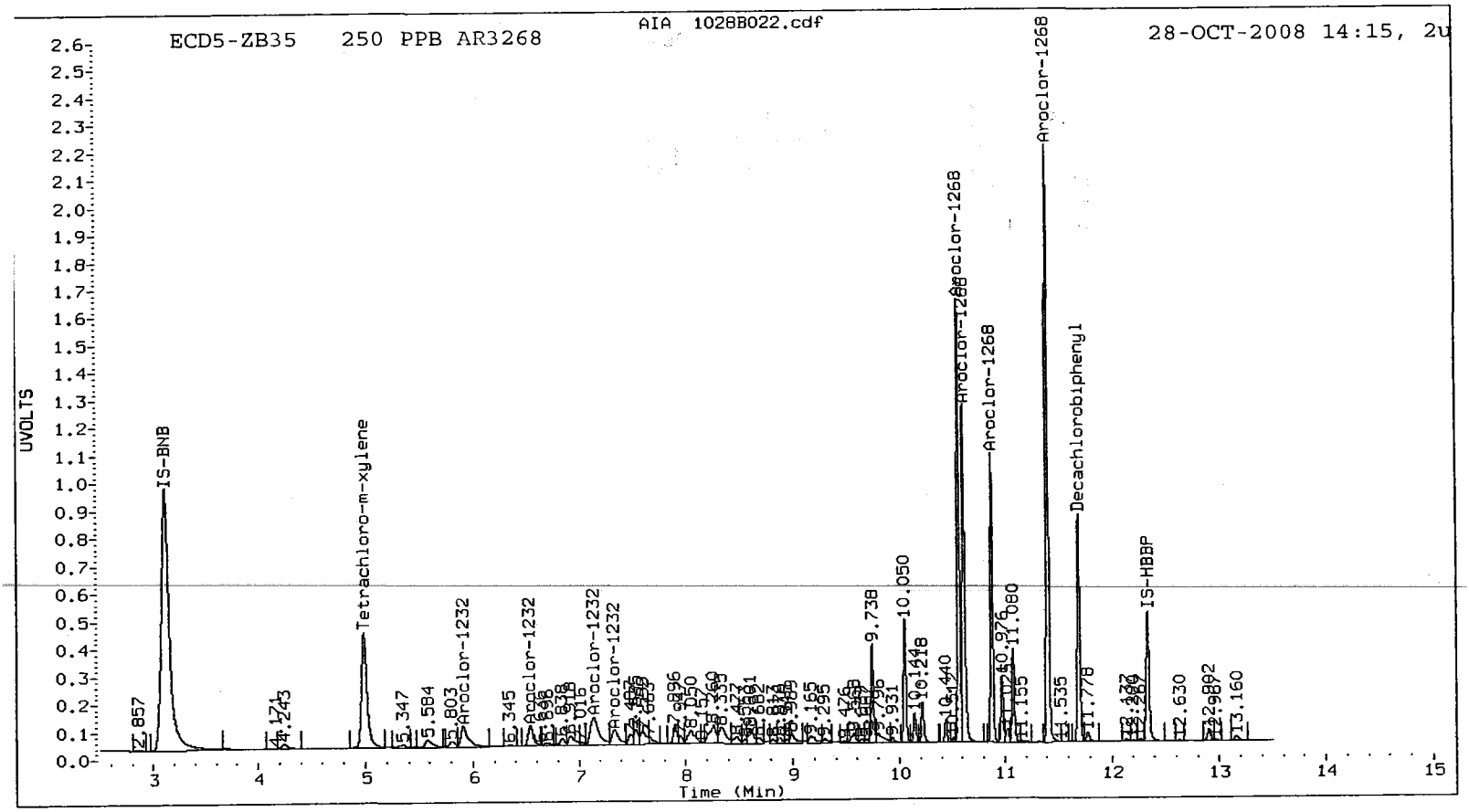
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UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1232
Aroclor-1232
Aroclor-1232
Aroclor-1268
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Decachlorobiphenyl
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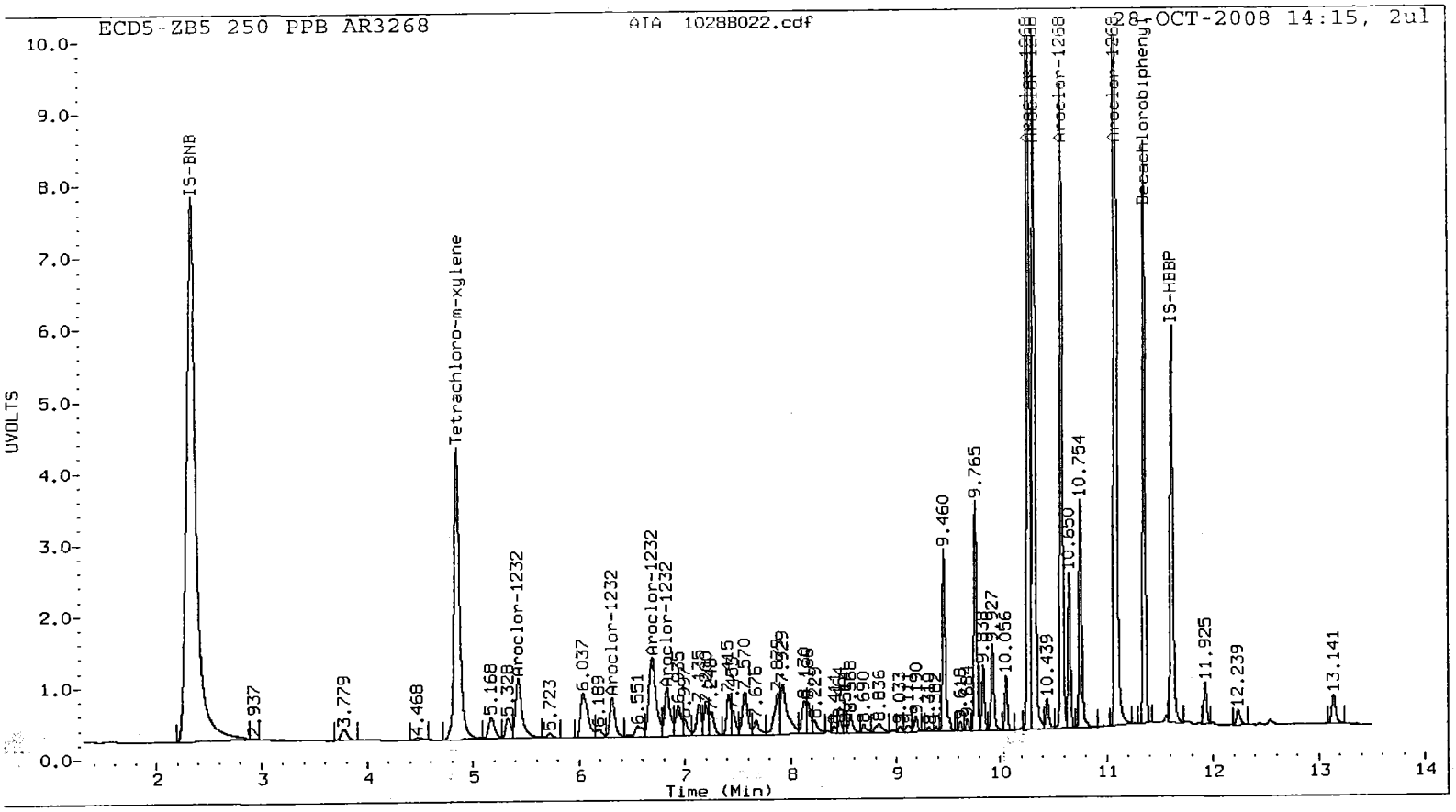
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28-OCT-2008 14:15, 2ul
UVOLTS
Time (Min)
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Tetrachloro-m-xylene
Aroclor-1232
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Aroclor-1268
Decachlorobiphenyl
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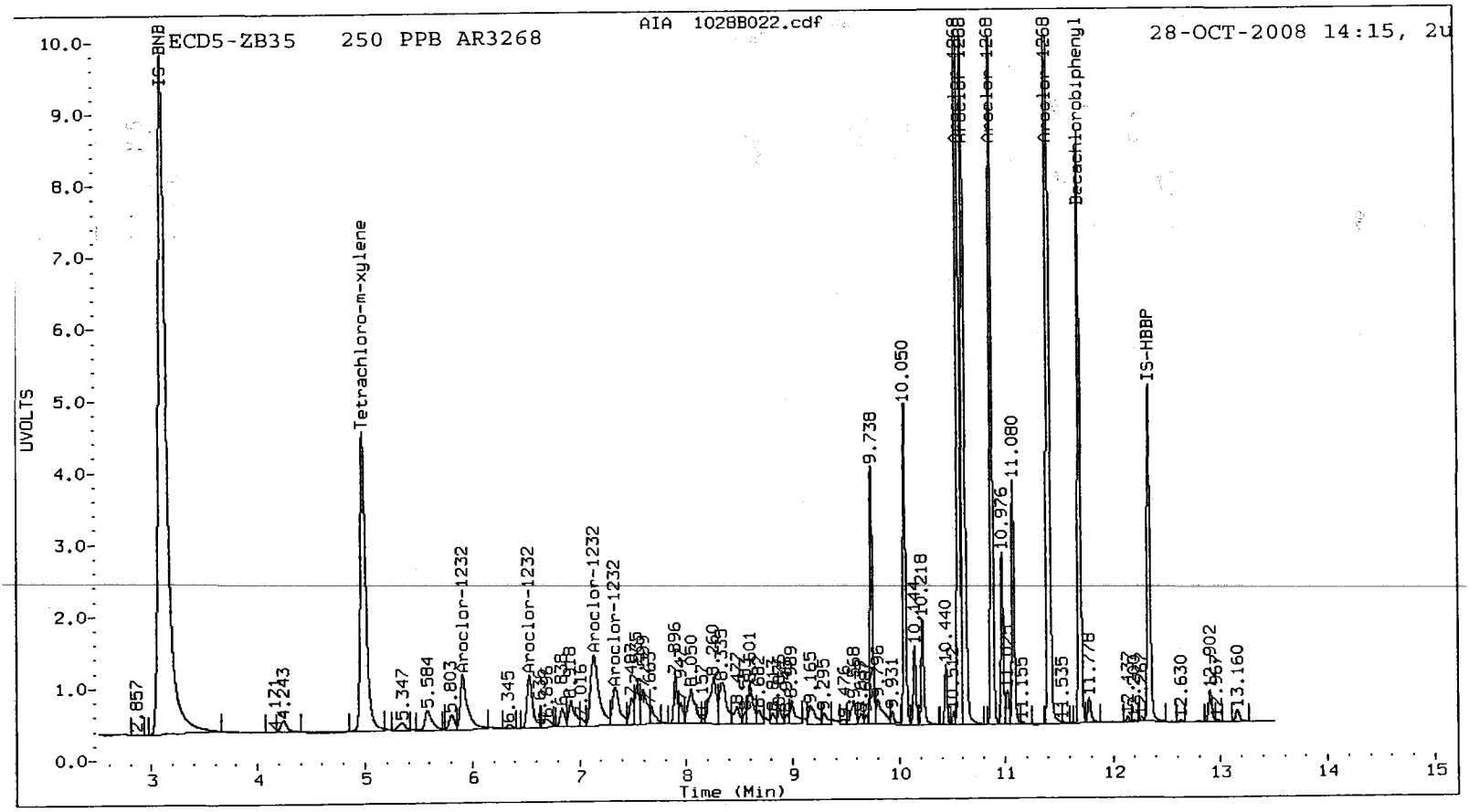
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UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1232
Aroclor-1232
Aroclor-1232
Aroclor-1232
Aroclor-1268
Aroclor-1268
Aroclor-1268
Decachlorobiphenyl
IS-HBBP
2.857
4.171
4.243
5.347
5.584
5.803
6.345
9.738
10.050
10.218
10.440
10.976
11.080
11.535
11.778
12.630
13.160

7F

PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL, LLC.

ARI Job No.: NV61 Project: EDDON BOATYARD

GC Column: ZB35 Intrument: ECD5

Init. Calib. Date: 10/28/08

Date Analyzed :10/29/08

Lab Standard ID: AR1254 Time Analyzed :2335

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1254-1	8.48	8.37	8.57	241.1	250.0	-3.5
Aroclor-1254-2	8.88	8.77	8.97	241.2	250.0	-3.5
Aroclor-1254-3	8.99	8.88	9.08	241.3	250.0	-3.5
Aroclor-1254-4	9.16	9.05	9.25	240.9	250.0	-3.6
Aroclor-1254-5	9.55	9.44	9.64	249.1	250.0	-0.4

AVERAGE %D = 2.9

7F

PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL, LLC.

ARI Job No.: NV61 Project: EDDON BOATYARD

GC Column: ZB5 Intrument: ECD5

Init. Calib. Date: 10/28/08

Date Analyzed :10/29/08

Lab Standard ID: AR1254 Time Analyzed :2335

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1254-1	8.17	8.07	8.27	249.3	250.0	-0.3
Aroclor-1254-2	8.47	8.36	8.56	250.7	250.0	0.3
Aroclor-1254-3	8.57	8.46	8.66	250.9	250.0	0.4
Aroclor-1254-4	8.83	8.72	8.92	250.1	250.0	0.0
Aroclor-1254-5	9.09	8.99	9.19	250.9	250.0	0.4

AVERAGE %D = 0.3

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081028.B/1029-1.b/1029B050.d
Data file 2: 20081028.B/1029-2.b/1029B050.d
Method: /chem2/ecd5.i/20081028.B/PCB1.m
Compound Sublist: AR1254
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254
Client ID:
Injection Date: 29-OCT-2008 23:35
Report Date: 11/12/2008 10:13
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.851	0.004	8234577	4.995	0.007	8217872	24.1	24.4	1.3	Tetrachloro-m-xylene
11.357	0.003	4301046	11.698	0.003	4241899	26.6	22.1	18.4	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	60.2	60.9
Decachlorobiphenyl	66.4	55.2

11/12/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24393719	25394650	4.1
Hexabromobiphenyl	5010762	5270686	5.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	25207774	27249480	8.1
Hexabromobiphenyl	4413062	4847013	9.8

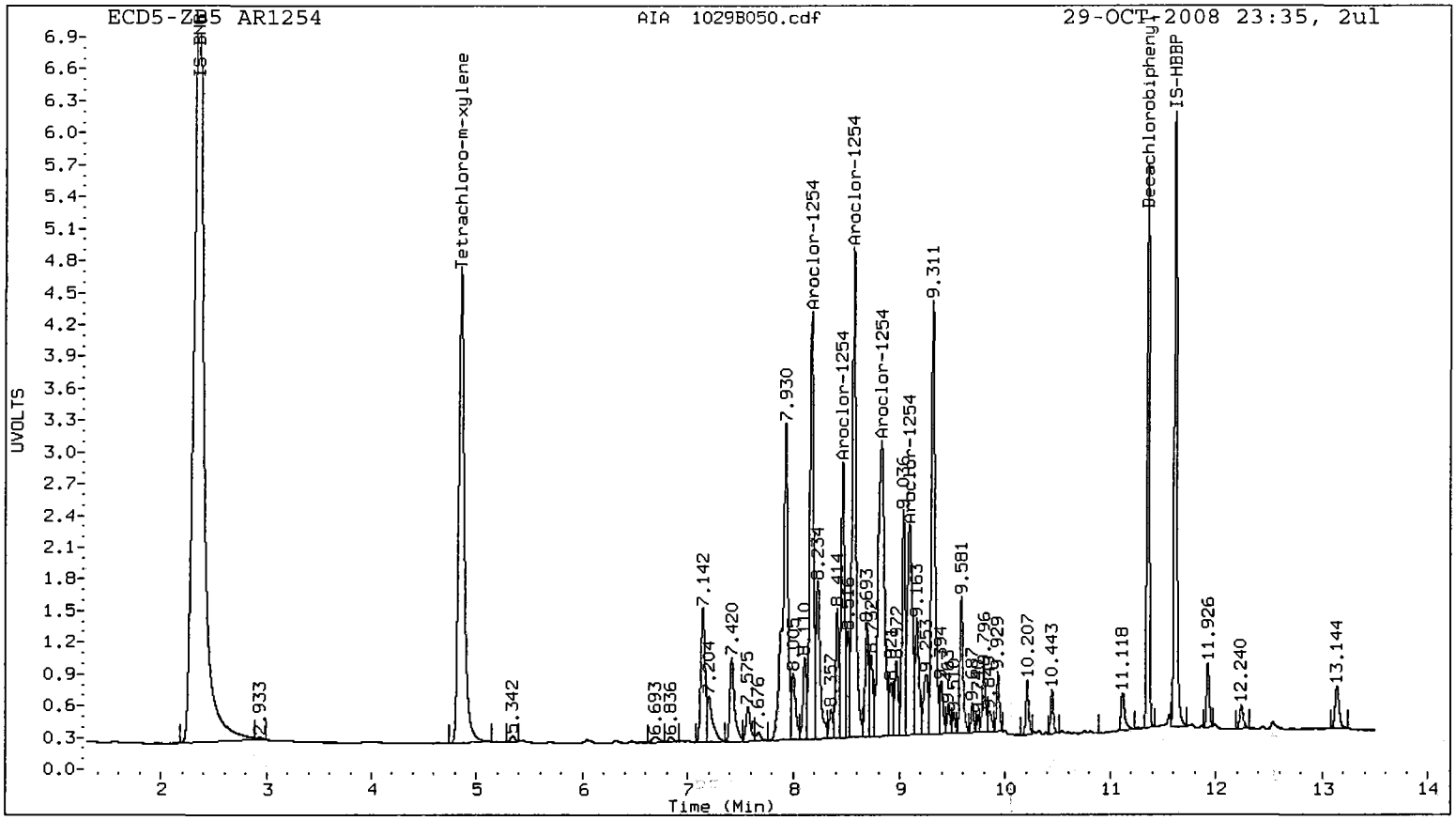
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1254	1	8.174	0.008	4866088	249.3	1	8.480	0.009	4593946	241.1
Aroclor-1254	2	8.466	0.008	3092159	250.7	2	8.878	0.006	3054187	241.2
Aroclor-1254	3	8.570	0.008	5880937	250.9	3	8.989	0.008	6573457	241.3
Aroclor-1254	4	8.828	0.009	5814171	250.1	4	9.163	0.009	6806672	240.9
Aroclor-1254	5	9.093	0.006	3308165	250.9	5	9.547	0.006	4055122	249.1
Total Col1Ave (5 peaks):					250.4	Total Col2Ave (5 peaks):				242.7 RPD = 3
Corrected Ave (4 peaks):					250.2	Corrected Ave (4 peaks):				241.1 RPD = 4

Total PCB Area Col1 (4.947 - 11.254) = 57575832 Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (5.088 - 11.595) = 63523541 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical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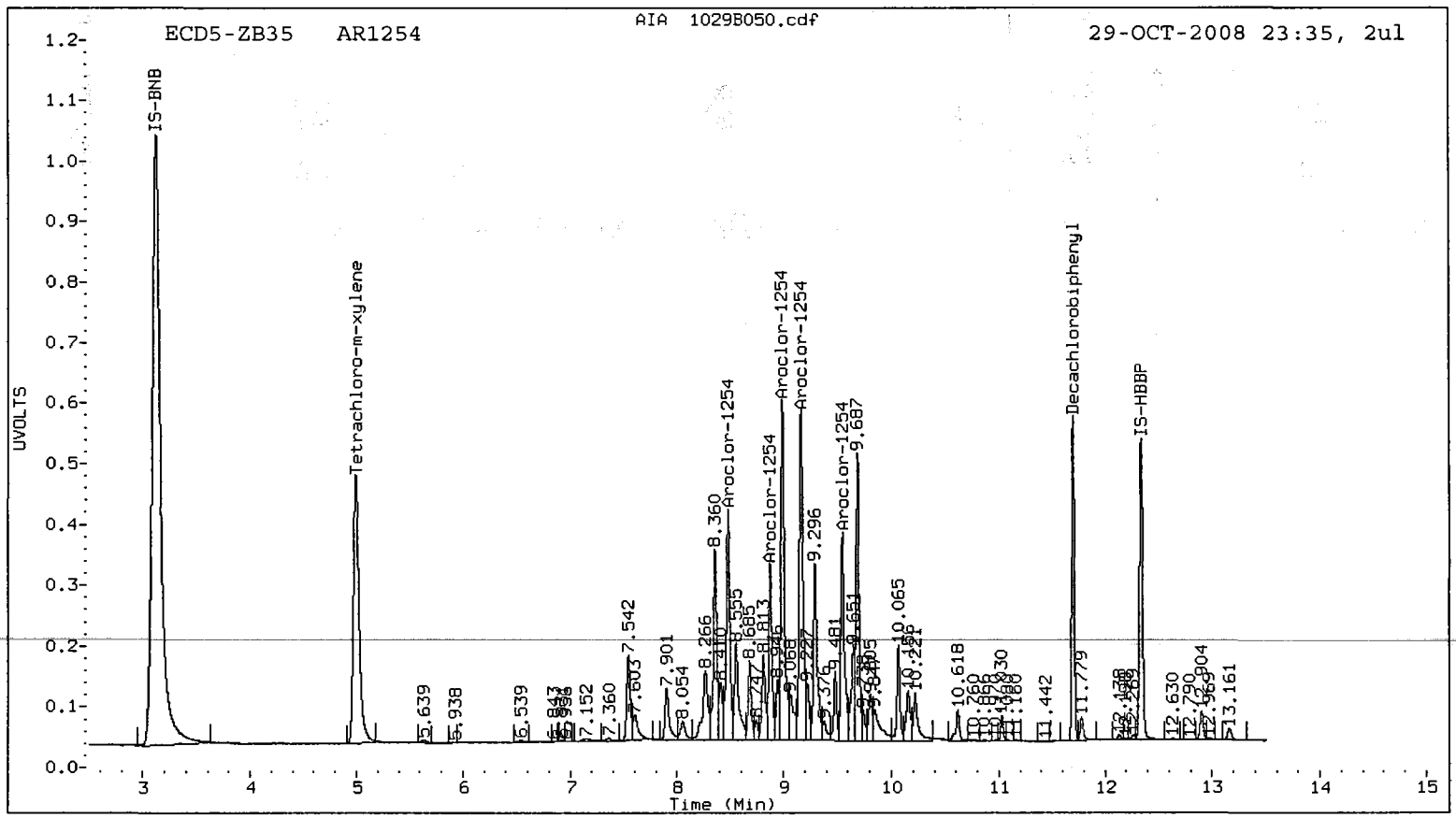
Tetrachloro-m-xylene
Aroclor-1254
Decachlorobiphenyl
IS-HBBP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Time (Min)
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Tetrachloro-m-xylene
Aroclor-1254
Decachlorobiphenyl
IS-HBBP

7F

PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL, LLC.

ARI Job No.: NV61 Project: EDDON BOATYARD

GC Column: ZB5 Intrument: ECD5

Init. Calib. Date: 10/28/08

Date Analyzed :10/29/08

Lab Standard ID: AR1660 Time Analyzed :2352

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1016-1	6.32	6.21	6.41	252.3	250.0	0.9
Aroclor-1016-2	6.69	6.59	6.79	244.5	250.0	-2.2
Aroclor-1016-3	6.83	6.73	6.93	246.8	250.0	-1.3
Aroclor-1016-4	6.94	6.83	7.03	249.9	250.0	-0.0

AVERAGE %D = 1.1

Date Analyzed :10/29/08

Lab Standard ID: AR1660 Time Analyzed :2352

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1260-1	9.46	9.36	9.56	235.5	250.0	-5.8
Aroclor-1260-2	9.69	9.58	9.78	232.2	250.0	-7.1
Aroclor-1260-3	9.93	9.83	10.03	235.3	250.0	-5.9
Aroclor-1260-4	10.21	10.10	10.30	232.6	250.0	-7.0
Aroclor-1260-5	10.32	10.22	10.42	235.3	250.0	-5.9

AVERAGE %D = 6.3

7F

PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL, LLC.

ARI Job No.: NV61 Project: EDDON BOATYARD

GC Column: ZB35 Intrument: ECD5

Init. Calib. Date: 10/28/08

Date Analyzed :10/29/08

Lab Standard ID: AR1660 Time Analyzed :2352

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1016-1	6.54	6.43	6.63	242.2	250.0	-3.1
Aroclor-1016-2	7.14	7.03	7.23	243.7	250.0	-2.5
Aroclor-1016-3	7.33	7.23	7.43	239.2	250.0	-4.3
Aroclor-1016-4	7.90	7.80	8.00	228.9	250.0	-8.4

AVERAGE %D = 4.6

Date Analyzed :10/29/08

Lab Standard ID: AR1660 Time Analyzed :2352

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1260-1	9.30	9.19	9.39	222.0	250.0	-11.2
Aroclor-1260-2	10.06	9.95	10.15	235.5	250.0	-5.8
Aroclor-1260-3	10.22	10.12	10.32	227.2	250.0	-9.1
Aroclor-1260-4	10.62	10.51	10.71	232.8	250.0	-6.9

AVERAGE %D = 8.2

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081028.B/1029-1.b/1029B051.d
Data file 2: 20081028.B/1029-2.b/1029B051.d
Method: /chem2/ecd5.i/20081028.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660
Client ID:
Injection Date: 29-OCT-2008 23:52
Report Date: 11/12/2008 10:13
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.852	0.005	6911008	4.994	0.006	6884183	18.7	19.5	4.3	Tetrachloro-m-xylene
11.357	0.003	3723838	11.698	0.003	3645509	21.3	17.7	18.1	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	46.7	48.8
Decachlorobiphenyl	53.2	44.3

INTERNAL STANDARD SUMMARY

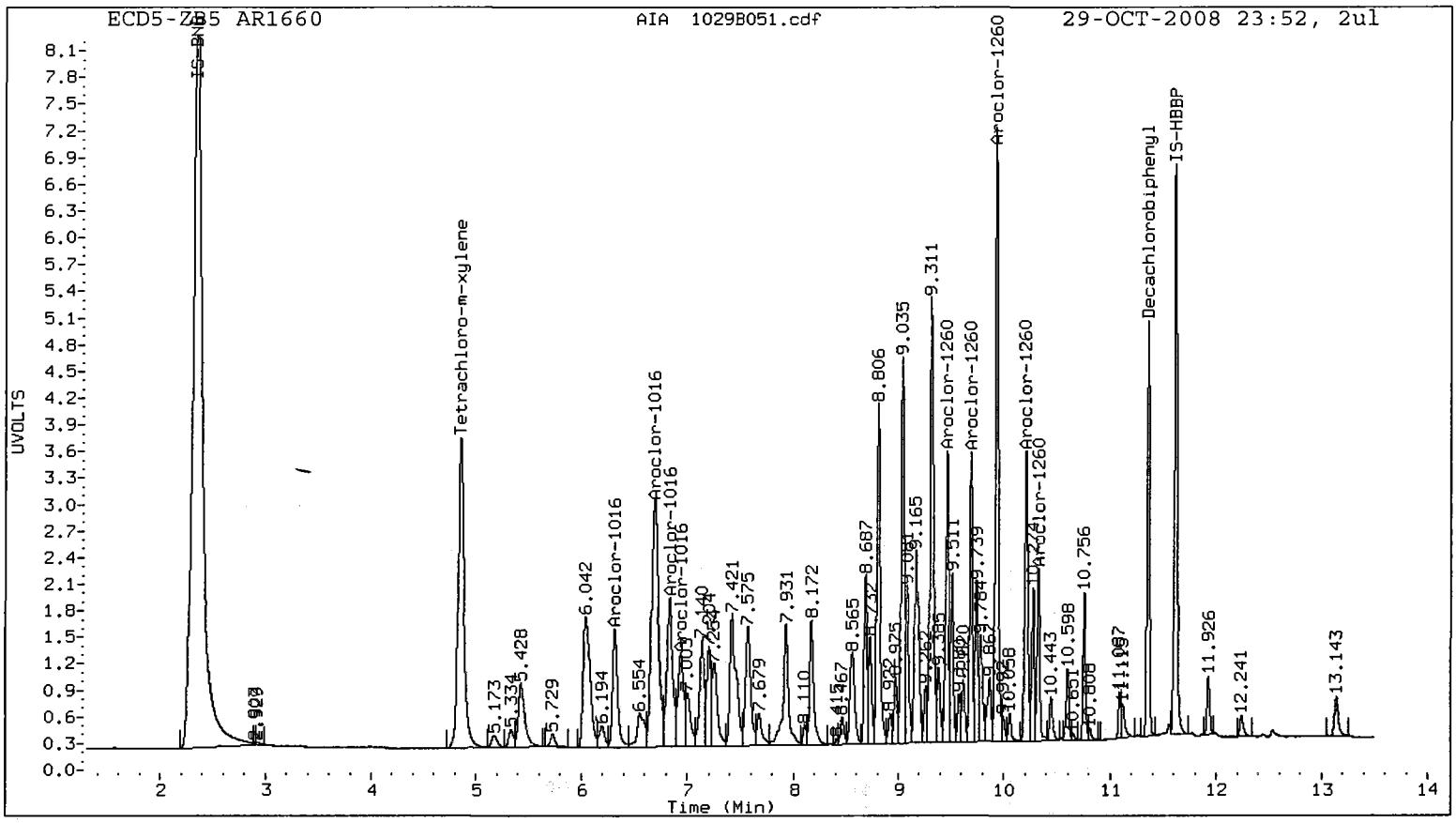
Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24393719	27451579	12.5
Hexabromobiphenyl	5010762	5696473	13.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	25207774	28526815	13.2
Hexabromobiphenyl	4413062	5187267	17.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)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Tetrachloro-m-xylene
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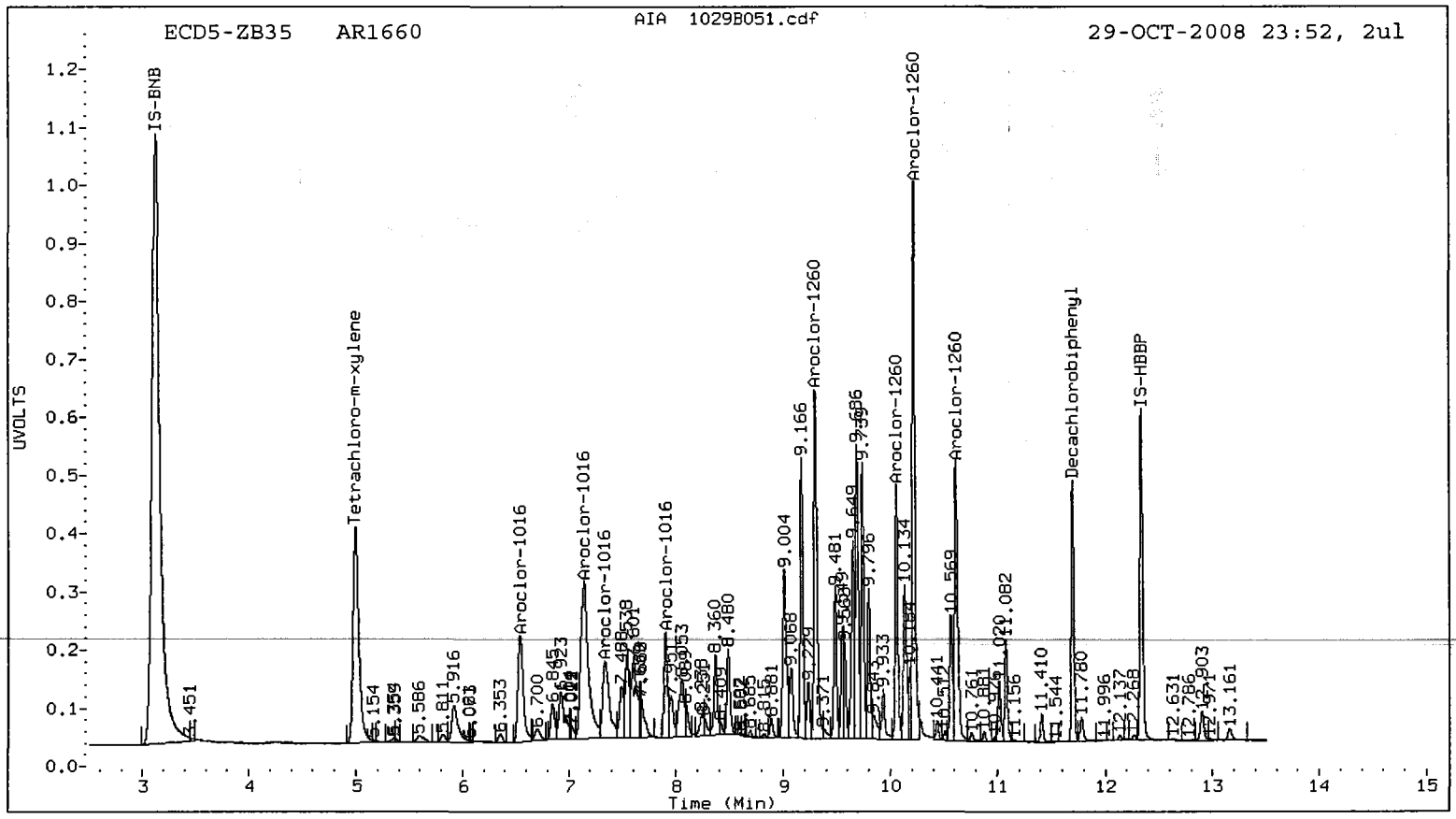
Aroclor-1260
Decachlorobiphenyl
IS-HBBP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Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	6.317	0.005	2254938	252.3	1	6.541	0.008	3204448	242.2
Aroclor-1016	2	6.693	0.006	6583236	244.5	2	7.139	0.007	6705602	243.7
Aroclor-1016	3	6.833	0.006	3077799	246.8	3	7.333	0.008	2960840	239.2
Aroclor-1016	4	6.940	0.007	1946900	249.9	4	7.901	0.005	1931505	228.9
	Total Col1Ave (4 peaks):				248.4	Total Col2Ave (4 peaks):				238.5 RPD = 4
	Corrected Ave (3 peaks):				247.1	Corrected Ave (3 peaks):				236.7 RPD = 4
Aroclor-1260	1	9.462	0.003	3137540	235.5	1	9.295	0.004	6154972	222.0
Aroclor-1260	2	9.686	0.003	2938608	232.2	2	10.056	0.004	3751557	235.5
Aroclor-1260	3	9.928	0.003	6705522	235.3	3	10.220	0.004	8349461	227.2
Aroclor-1260	4	10.206	0.003	3354168	232.6	4	10.617	0.003	4860866	232.8
Aroclor-1260	5	10.324	0.002	1757860	235.3	NS	---			----
	Total Col1Ave (5 peaks):				234.2	Total Col2Ave (4 peaks):				229.4 RPD = 2
	Corrected Ave (4 peaks):				233.8	Corrected Ave (3 peaks):				227.4 RPD = 3

Total PCB Area Col1 (4.947 - 11.254) = 95742428 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.088 - 11.595) = 98162790 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL, LLC.

ARI Job No.: NV61 Project: EDDON BOATYARD

GC Column: ZB5 Intrument: ECD5

Init. Calib. Date: 10/28/08

Date Analyzed :10/30/08

Lab Standard ID: AR1248 Time Analyzed :0351

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1248-1	6.69	6.58	6.78	249.1	250.0	-0.4
Aroclor-1248-2	7.14	7.03	7.23	227.9	250.0	-8.8
Aroclor-1248-3	7.57	7.47	7.67	241.4	250.0	-3.4
Aroclor-1248-4	7.93	7.82	8.02	234.8	250.0	-6.1

AVERAGE %D = 4.7

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL, LLC.

ARI Job No.: NV61 Project: EDDON BOATYARD

GC Column: ZB35 Intrument: ECD5

Init. Calib. Date: 10/28/08

Date Analyzed :10/30/08

Lab Standard ID: AR1248 Time Analyzed :0351

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1248-1	7.14	7.03	7.23	232.2	250.0	-7.1
Aroclor-1248-2	7.54	7.43	7.63	223.3	250.0	-10.7
Aroclor-1248-3	7.90	7.79	7.99	224.8	250.0	-10.1
Aroclor-1248-4	8.26	8.16	8.36	227.9	250.0	-8.8

AVERAGE %D = 9.2

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081028.B/1029-1.b/1029B065.d
Data file 2: 20081028.B/1029-2.b/1029B065.d
Method: /chem2/ecd5.i/20081028.B/PCB1.m
Compound Sublist: AR1248
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248
Client ID:
Injection Date: 30-OCT-2008 03:51
Report Date: 11/12/2008 10:13
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
4.853	0.006	7701067	4.993	0.005	8096983	22.3	23.7	6.1	Tetrachloro-m-xylene
11.358	0.004	4080807	11.698	0.003	4075678	25.6	20.7	21.2	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	55.8	59.3
Decachlorobiphenyl	64.1	51.8

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24393719	25632710	5.1
Hexabromobiphenyl	5010762	5180384	3.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	25207774	27608583	9.5
Hexabromobiphenyl	4413062	4964235	12.5

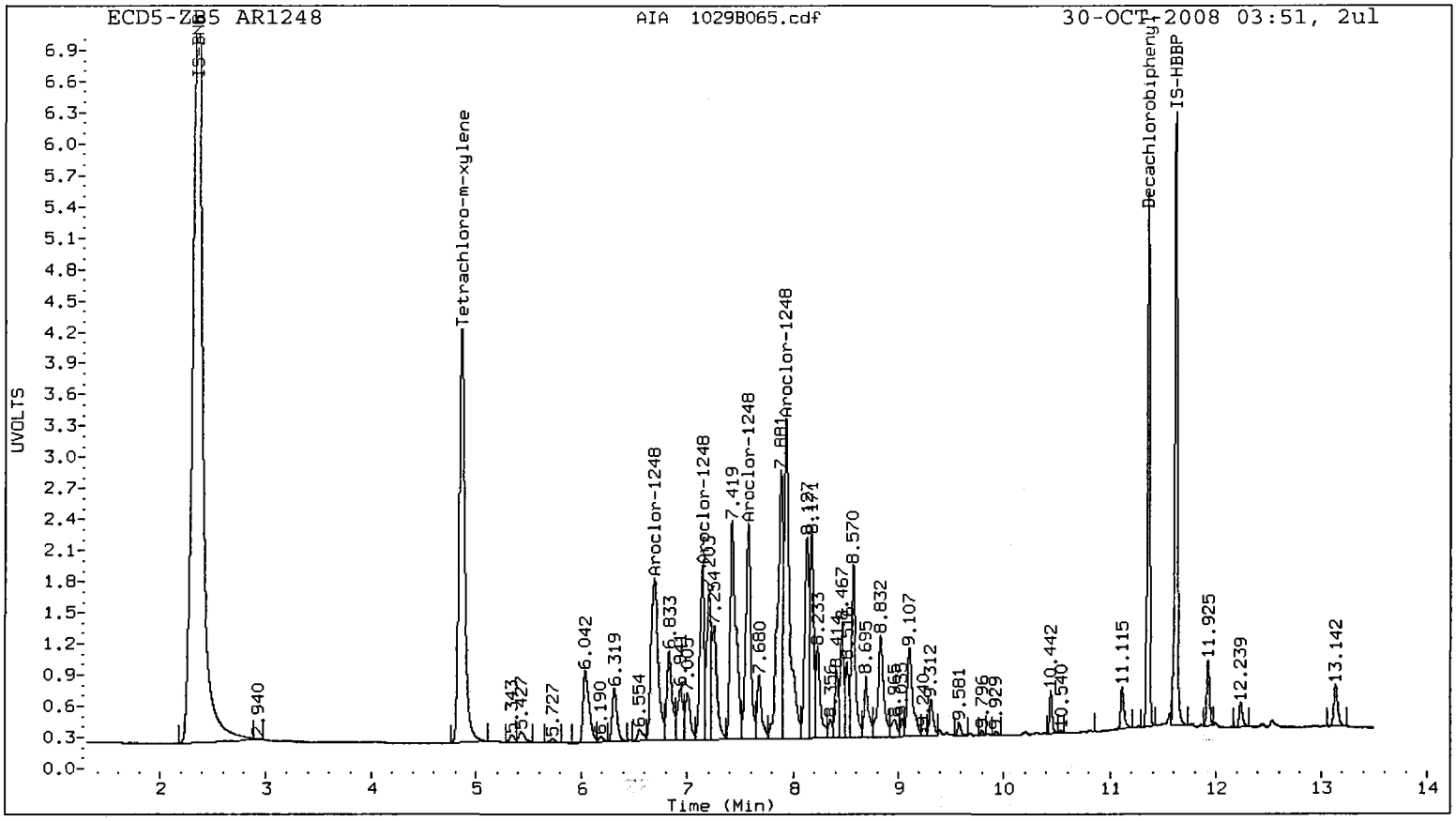
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	6.690	0.010	3604395	249.1	1	7.140	0.010	3636072	232.2
Aroclor-1248	2	7.141	0.006	2347408	227.9	2	7.539	0.007	2452393	223.3
Aroclor-1248	3	7.574	0.005	3426106	241.4	3	7.900	0.006	2804642	224.8
Aroclor-1248	4	7.930	0.006	5646973	234.8	4	8.257	0.002	4229193	227.9
Total Col1Ave (4 peaks):					238.3	Total Col2Ave (4 peaks):				227.1 RPD = 5
Corrected Ave (3 peaks):					234.7	Corrected Ave (3 peaks):				225.3 RPD = 4

Total PCB Area Col1 (4.947 - 11.254) = 51913428 Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (5.088 - 11.595) = 53257968 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical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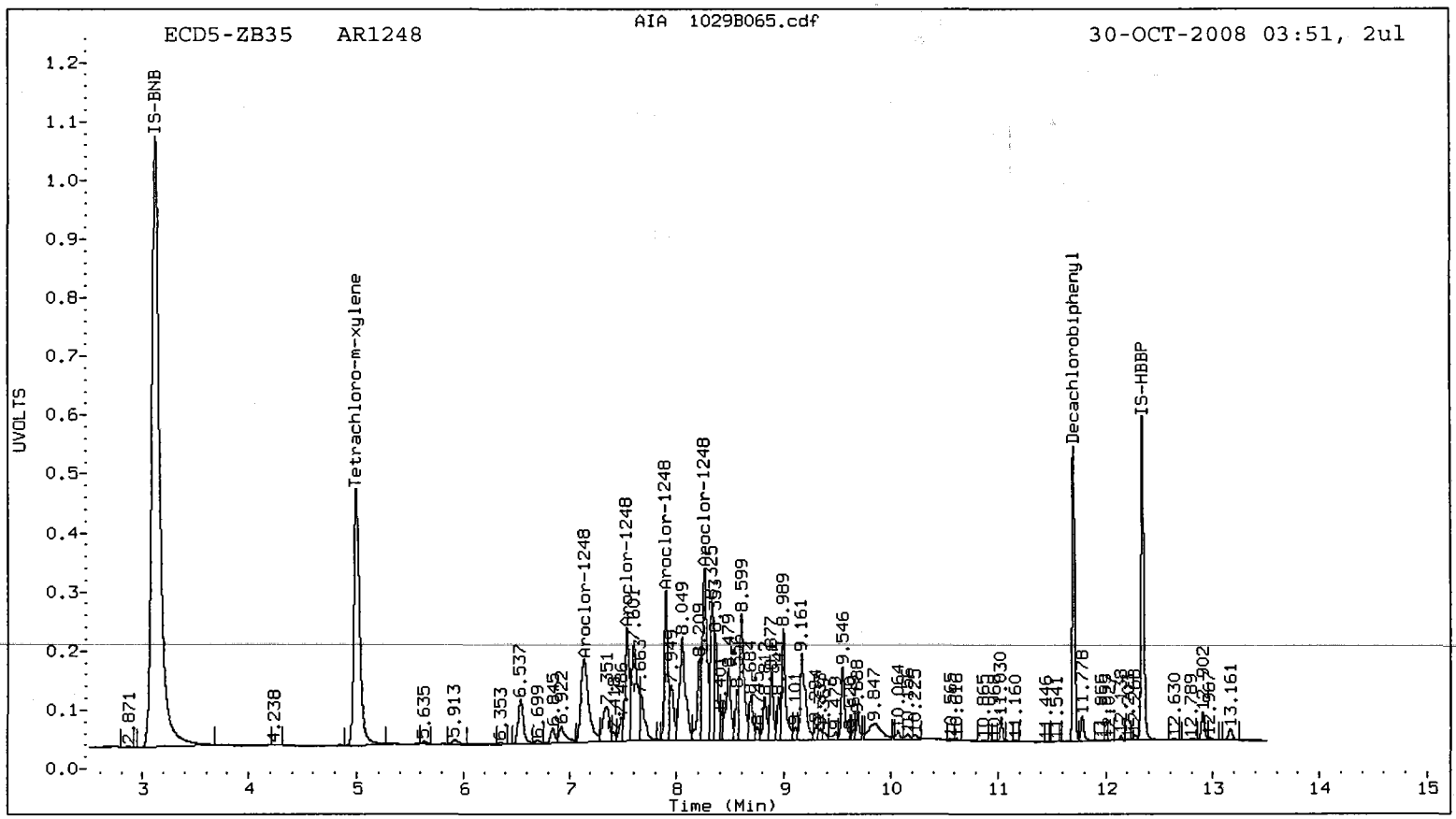
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Tetrachloro-m-xylene
Aroclor-1248
Decachlorobiphenyl
IS-HBBP

7F

PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL, LLC.

ARI Job No.: NV61 Project: EDDON BOATYARD

GC Column: ZB5 Intrument: ECD5

Init. Calib. Date: 10/28/08

Date Analyzed :10/30/08

Lab Standard ID: AR1660 Time Analyzed :0408

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1016-1	6.32	6.21	6.41	245.4	250.0	-1.8
Aroclor-1016-2	6.69	6.59	6.79	245.9	250.0	-1.6
Aroclor-1016-3	6.83	6.73	6.93	237.6	250.0	-4.9
Aroclor-1016-4	6.94	6.83	7.03	248.6	250.0	-0.5

AVERAGE %D = 2.2

Date Analyzed :10/30/08

Lab Standard ID: AR1660 Time Analyzed :0408

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1260-1	9.46	9.36	9.56	233.3	250.0	-6.7
Aroclor-1260-2	9.69	9.58	9.78	230.3	250.0	-7.9
Aroclor-1260-3	9.93	9.83	10.03	235.0	250.0	-6.0
Aroclor-1260-4	10.21	10.10	10.30	233.4	250.0	-6.6
Aroclor-1260-5	10.32	10.22	10.42	226.6	250.0	-9.4

AVERAGE %D = 7.3

7F

PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR ENVIRONMENTAL, LLC.

ARI Job No.: NV61 Project: EDDON BOATYARD

GC Column: ZB35 Intrument: ECD5

Init. Calib. Date: 10/28/08

Date Analyzed :10/30/08

Lab Standard ID: AR1660 Time Analyzed :0408

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1016-1	6.54	6.43	6.63	247.8	250.0	-0.9
Aroclor-1016-2	7.14	7.03	7.23	255.5	250.0	2.2
Aroclor-1016-3	7.33	7.23	7.43	249.0	250.0	-0.4
Aroclor-1016-4	7.90	7.80	8.00	237.7	250.0	-4.9

AVERAGE %D = 2.1

Date Analyzed :10/30/08

Lab Standard ID: AR1660 Time Analyzed :0408

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1260-1	9.30	9.19	9.39	209.7	250.0	-16.1
Aroclor-1260-2	10.06	9.95	10.15	223.9	250.0	-10.4
Aroclor-1260-3	10.22	10.12	10.32	228.6	250.0	-8.5
Aroclor-1260-4	10.62	10.51	10.71	223.8	250.0	-10.5

AVERAGE %D = 11.4

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081028.B/1029-1.b/1029B066.d
Data file 2: 20081028.B/1029-2.b/1029B066.d
Method: /chem2/ecd5.i/20081028.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660
Client ID:
Injection Date: 30-OCT-2008 04:08
Report Date: 11/12/2008 10:13
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.853	0.007	6866226	4.995	0.006	6861815	18.1	19.3	6.4	Tetrachloro-m-xylene
11.358	0.004	3741638	11.698	0.003	3727047	21.3	17.3	20.9	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	45.3	48.3
Decachlorobiphenyl	53.2	43.2

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24393719	28137237	15.3
Hexabromobiphenyl	5010762	5716626	14.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	25207774	28715605	13.9
Hexabromobiphenyl	4413062	5444087	23.4

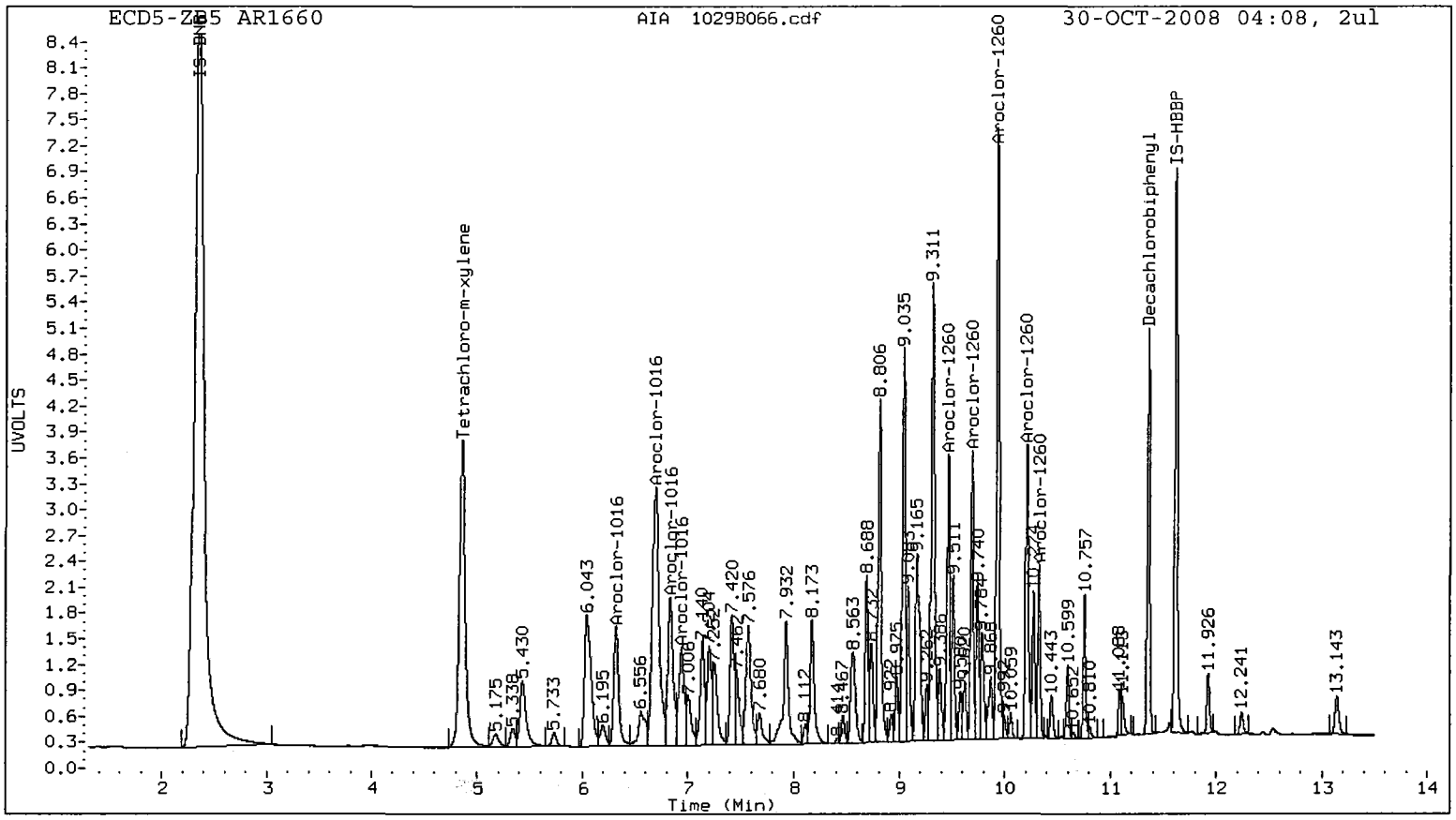
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	6.321	0.009	2248011	245.4	1	6.539	0.005	3300232	247.8
Aroclor-1016	2	6.690	0.003	6785626	245.9	2	7.138	0.005	7075849	255.5
Aroclor-1016	3	6.834	0.007	3037305	237.6	3	7.328	0.003	3102716	249.0
Aroclor-1016	4	6.940	0.007	1985044	248.6	4	7.900	0.005	2019686	237.7
	Total Col1Ave (4 peaks):				244.4	Total Col2Ave (4 peaks):				247.5 RPD = 1
	Corrected Ave (3 peaks):				243.0	Corrected Ave (3 peaks):				244.8 RPD = 1
Aroclor-1260	1	9.462	0.004	3119177	233.3	1	9.295	0.004	6100011	209.7
Aroclor-1260	2	9.687	0.004	2925129	230.3	2	10.056	0.003	3742924	223.9
Aroclor-1260	3	9.930	0.004	6722398	235.0	3	10.219	0.003	8817903	228.6
Aroclor-1260	4	10.207	0.003	3377113	233.4	4	10.616	0.003	4905048	223.8
Aroclor-1260	5	10.324	0.003	1698572	226.6	NS	---			----
	Total Col1Ave (5 peaks):				231.7	Total Col2Ave (4 peaks):				221.5 RPD = 5
	Corrected Ave (4 peaks):				230.9	Corrected Ave (3 peaks):				219.1 RPD = 5

Total PCB Area Col1 (4.947 - 11.254) = 95547069 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.088 - 11.595) = 100526070 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical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30-OCT-2008 04:08, 2ul
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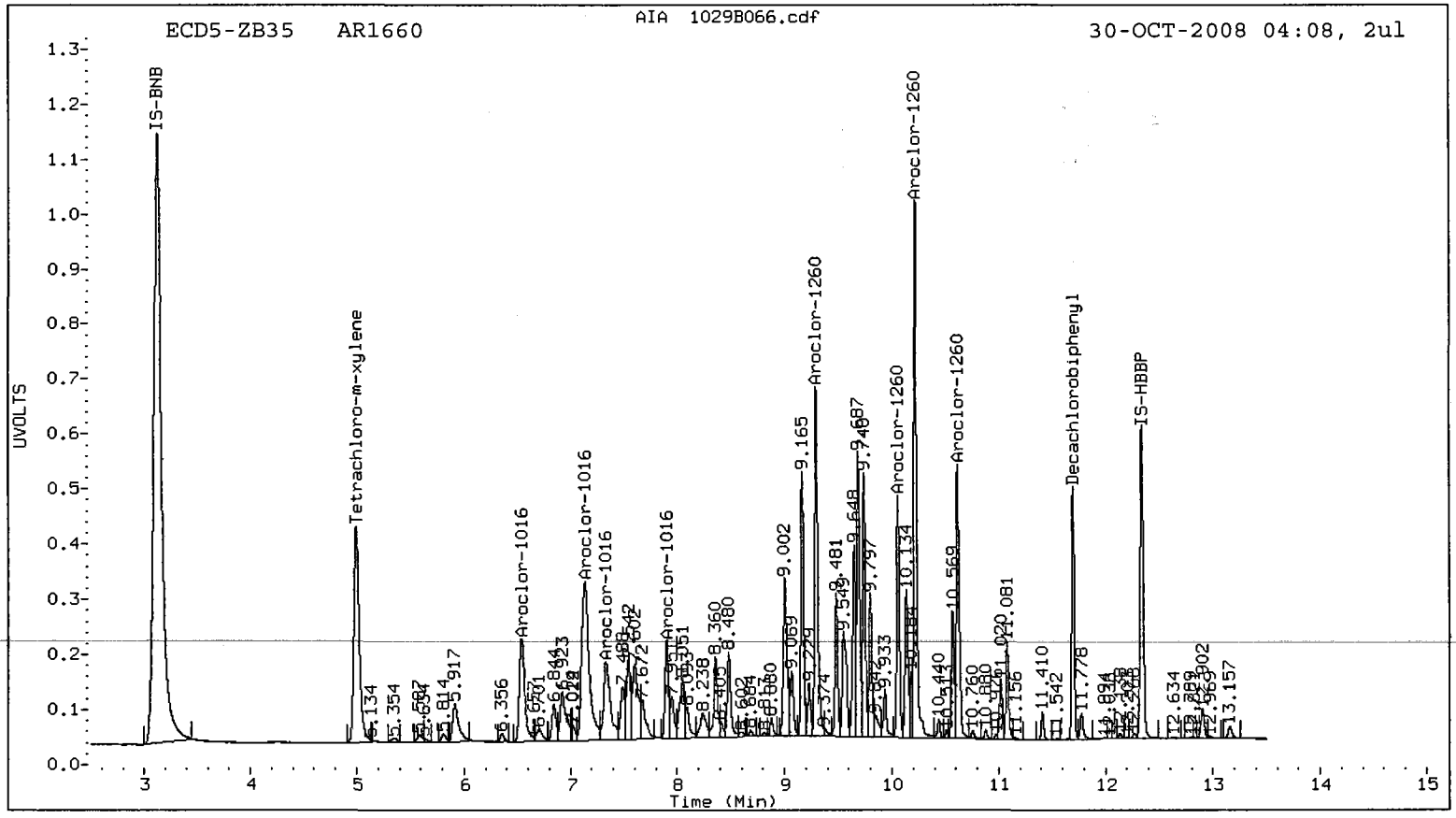
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP


ECD5-ZB35 AR1660
AIA 1029B066.cdf
30-OCT-2008 04:08, 2ul
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP

PCB Analysis
QC Raw Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NV61

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: MB-102708
METHOD BLANK

Lab Sample ID: MB-102708
LIMS ID: 08-28611
Matrix: Sediment
Data Release Authorized:
Reported: 11/06/08

QC Report No: NV61-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 10/27/08
Date Analyzed: 10/30/08 02:26
Instrument/Analyst: ECD5/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.0 g
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	10	< 10 U
53469-21-9	Aroclor 1242	10	< 10 U
12672-29-6	Aroclor 1248	10	< 10 U
11097-69-1	Aroclor 1254	10	< 10 U
11096-82-5	Aroclor 1260	10	< 10 U
11104-28-2	Aroclor 1221	10	< 10 U
11141-16-5	Aroclor 1232	10	< 10 U
37324-23-5	Aroclor 1262	10	< 10 U
11100-14-4	Aroclor 1268	10	< 10 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	118%
Tetrachlorometaxylene	95.0%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081028.B/1029-1.b/1029B060.d
Data file 2: 20081028.B/1029-2.b/1029B060.d
Method: /chem2/ecd5.i/20081028.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: NV61MBS1
Client ID:
Injection Date: 30-OCT-2008 02:26
Report Date: 11/06/2008 09:57
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.852	0.006	12455531	4.994	0.005	12588934	35.9	38.0	5.6	Tetrachloro-m-xylene
11.358	0.004	7390199	11.698	0.003	7651498	47.2	39.5	17.7	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	89.9	95.0
Decachlorobiphenyl	118.1	98.9

JR 11/06/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24393719	25726120	5.5
Hexabromobiphenyl	5010762	5091676	1.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	25207774	26766117	6.2
Hexabromobiphenyl	4413062	4882824	10.6

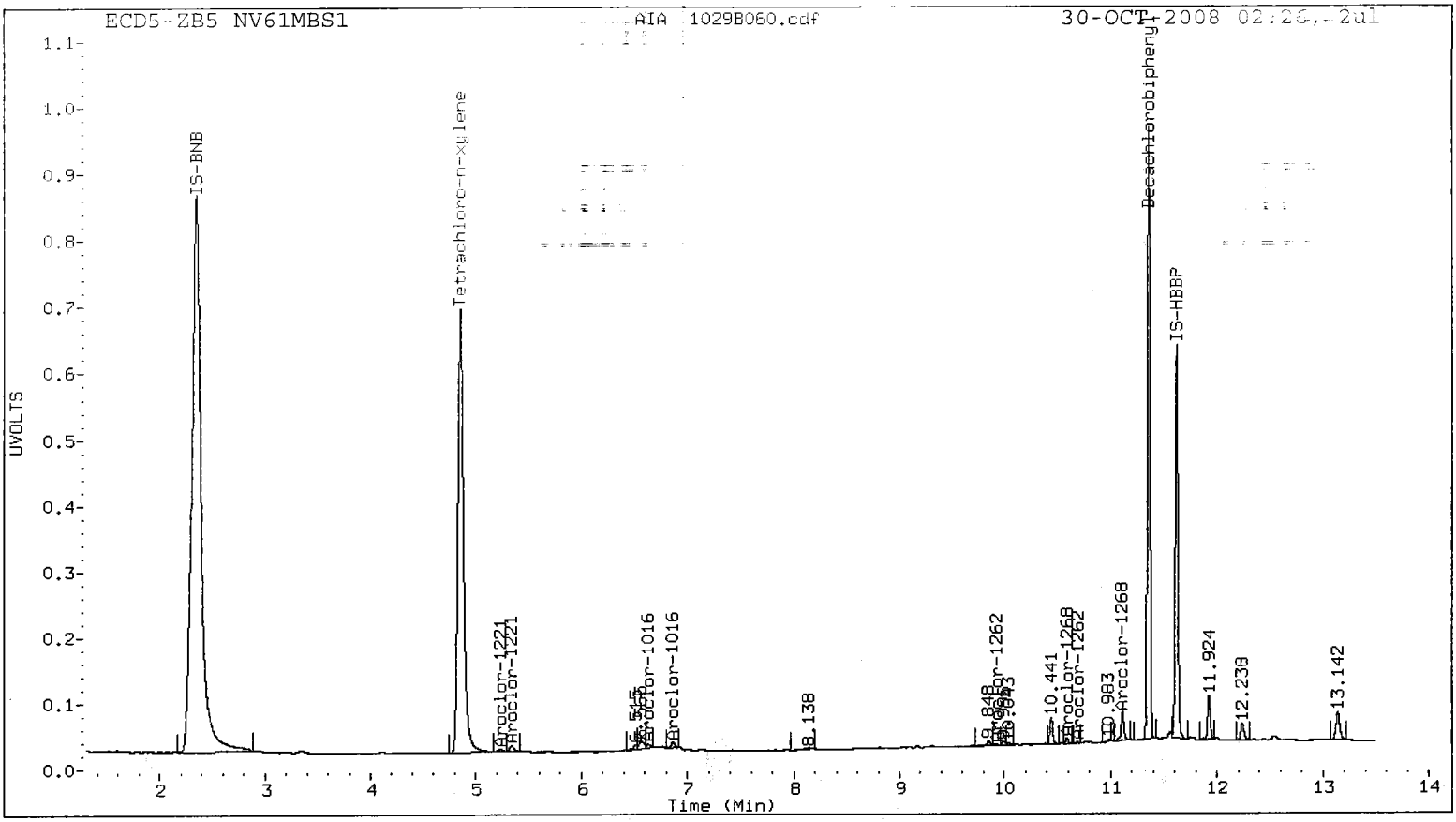
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	6.595	0.061	105968	8.5
Aroclor-1016	2	6.635	-0.052	79991	3.2	2	7.149	0.017	69955	2.7
Aroclor-1016	3	6.865	0.038	101855	8.7	3	7.390	0.065	31968	2.8
Aroclor-1016	4	---			0.0	4	7.822	-0.074	39656	5.0
		Col1Ave: <3 Quant Peaks					Col2Ave:		4.8	
Aroclor-1221	1	5.233	0.062	60832	16.1	1	5.638	0.058	140087	37.8
Aroclor-1221	2	5.338	0.008	123874	49.3	2	---			0.0
Aroclor-1221	3	---			0.0	3	5.950	0.041	56679	6.7
Aroclor-1221	NS	---			----	4	7.149	0.006	69955	29.6
		Col1Ave: <3 Quant Peaks					Col2Ave:		24.7	
Aroclor-1232	1	5.338	-0.086	123874	15.4	1	5.950	0.042	56679	7.4
Aroclor-1232	2	---			0.0	2	6.476	-0.059	247690	45.0
Aroclor-1232	3	6.635	-0.050	79991	6.9	3	7.149	0.009	69955	6.1
Aroclor-1232	4	6.865	0.038	101855	18.4	4	7.390	0.054	31968	6.2
		Total Col1Ave (3 peaks):			13.6		Total Col2Ave (4 peaks):		16.2	RPD = 18
		Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):		6.6	
Aroclor-1242	1	---			0.0	1	6.595	0.059	105968	9.7
Aroclor-1242	2	6.635	-0.055	79991	3.6	2	7.149	0.015	69955	3.0
Aroclor-1242	3	6.865	0.036	101855	9.5	3	7.390	0.061	31968	2.8
Aroclor-1242	4	---			0.0	4	7.822	-0.074	39656	5.3
		Col1Ave: <3 Quant Peaks					Col2Ave:		5.2	
Aroclor-1248	1	---			0.0	1	7.149	0.019	69955	4.6
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	7.822	-0.072	39656	3.3
Aroclor-1248	4	---			0.0	4	8.311	0.056	33504	1.9
		Col1Ave: <3 Quant Peaks					Col2Ave:		3.2	
Aroclor-1254	1	---			0.0	1	8.468	-0.003	30053	1.6
Aroclor-1254	2	---			0.0	2	8.903	0.032	28840	2.3
Aroclor-1254	3	---			0.0	3	8.956	-0.026	2383	0.1
Aroclor-1254	4	---			0.0	4	9.169	0.014	60282	2.2
Aroclor-1254	5	---			0.0	5	9.545	0.005	44014	2.8
		Col1Ave: <3 Quant Peaks					Col2Ave:		1.8	
Aroclor-1260	1	---			0.0	1	9.292	0.000	43041	1.6
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	10.225	0.009	83092	2.4
Aroclor-1260	4	---			0.0	4	10.569	-0.045	115018	5.9
Aroclor-1260	5	---			0.0	NS	---			----
		Col1Ave: <3 Quant Peaks					Col2Ave:		3.3	
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	9.925	-0.001	28197	0.8	2	10.225	0.006	83092	1.7
Aroclor-1262	3	---			0.0	3	10.569	0.002	115018	6.2
Aroclor-1262	4	---			0.0	4	---			0.0
Aroclor-1262	5	10.689	-0.065	23532	2.3	5	11.110	0.030	82841	7.5
		Col1Ave: <3 Quant Peaks					Col2Ave:		5.1	
Aroclor-1268	1	---			0.0	1	10.569	0.002	115018	2.3
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	10.588	-0.008	70653	2.4	3	10.852	-0.028	88103	2.6
Aroclor-1268	4	11.111	0.025	396191	6.0	4	11.391	-0.018	10980	0.1
		Col1Ave: <3 Quant Peaks					Col2Ave:		1.7	

Total PCB Area Col1 (4.947 - 11.254) = 1780536 Col1 Total PCB = 0.0 ppm*

Total PCB Area Col2 (5.088 - 11.595) = 5274024 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical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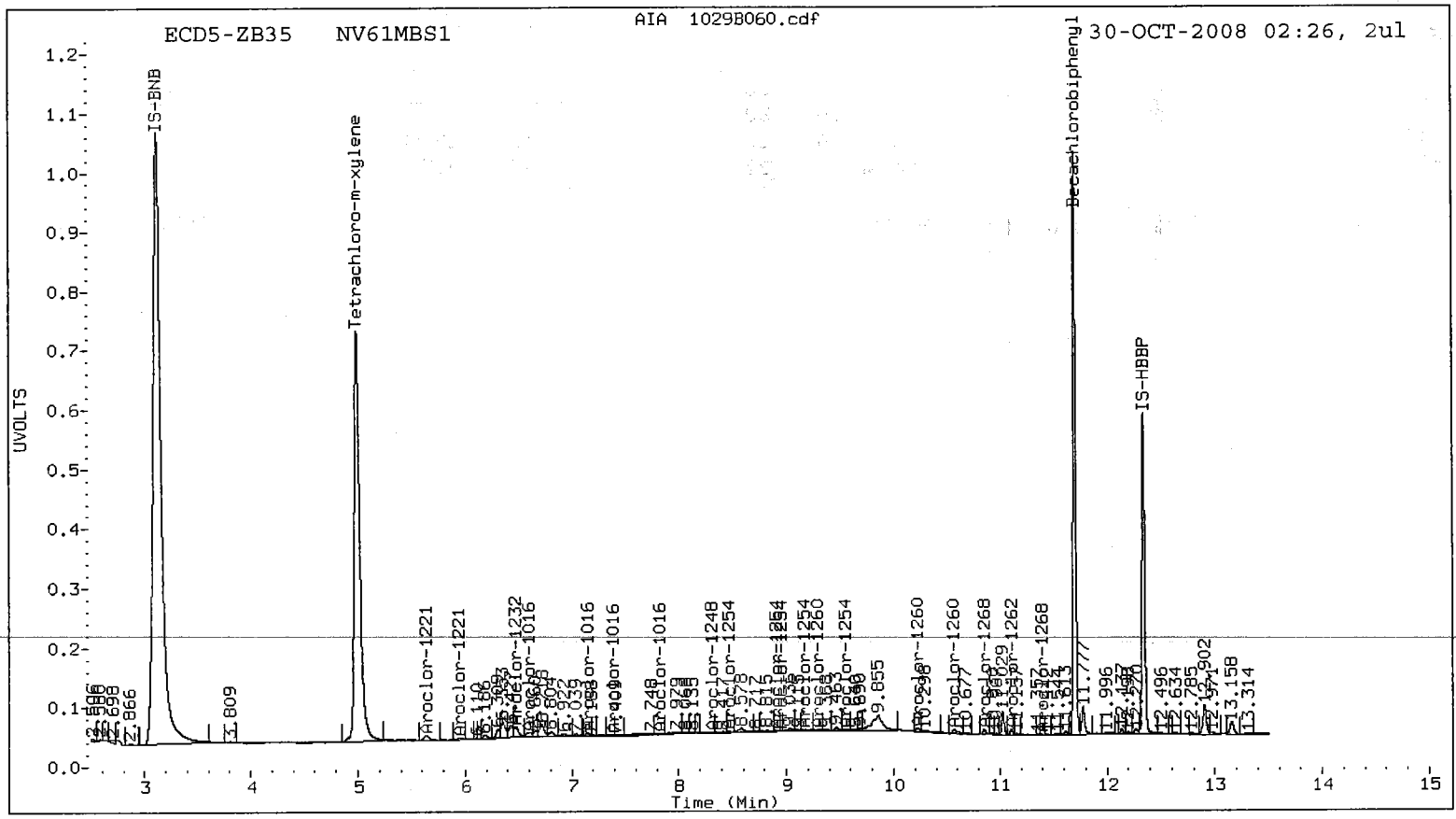
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1016
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP
8.138
10.441
10.983
11.924
12.238
13.142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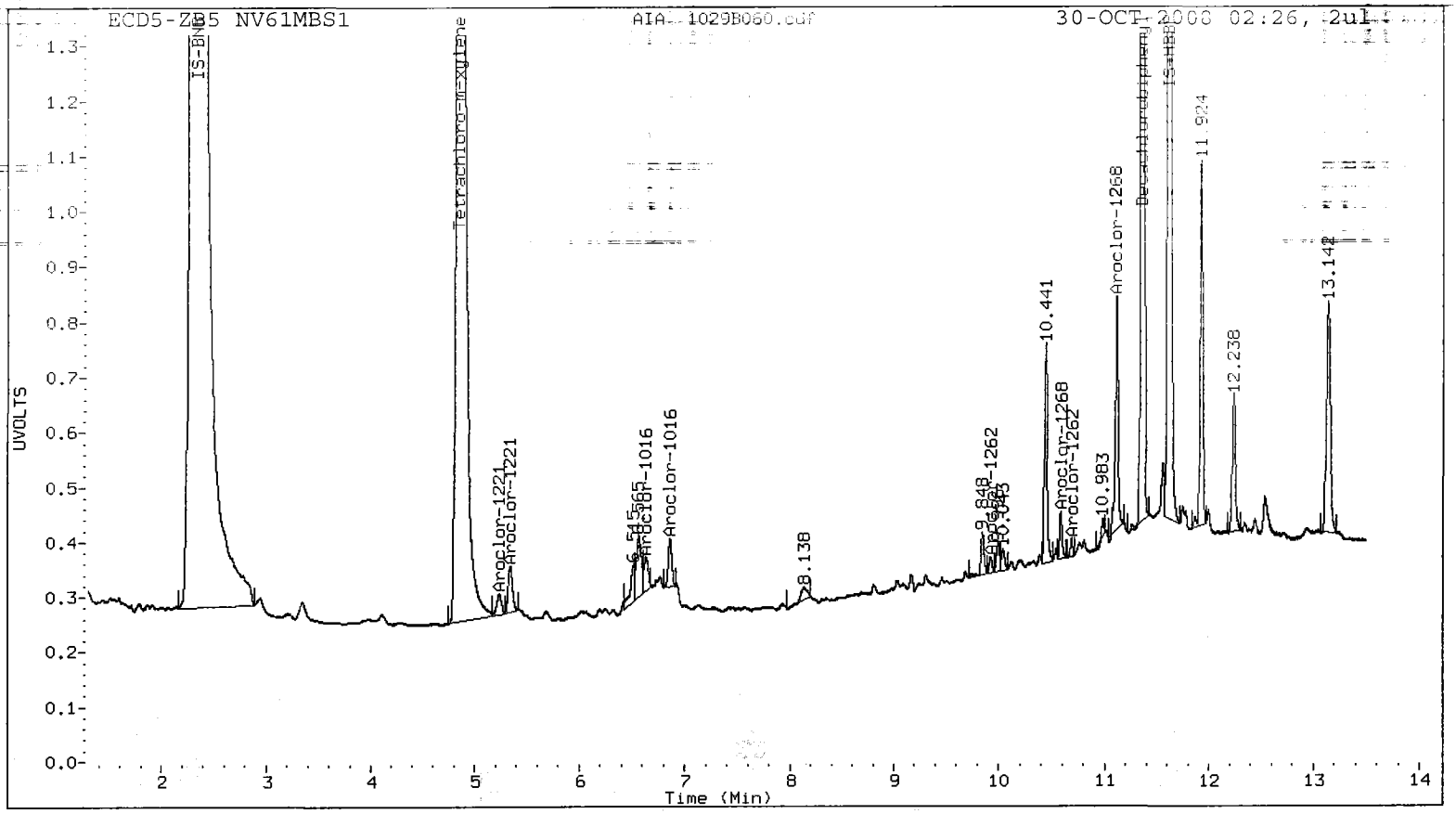
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1016
Aroclor-1248
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP
9.855
11.777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AIA 1029B060.cdf
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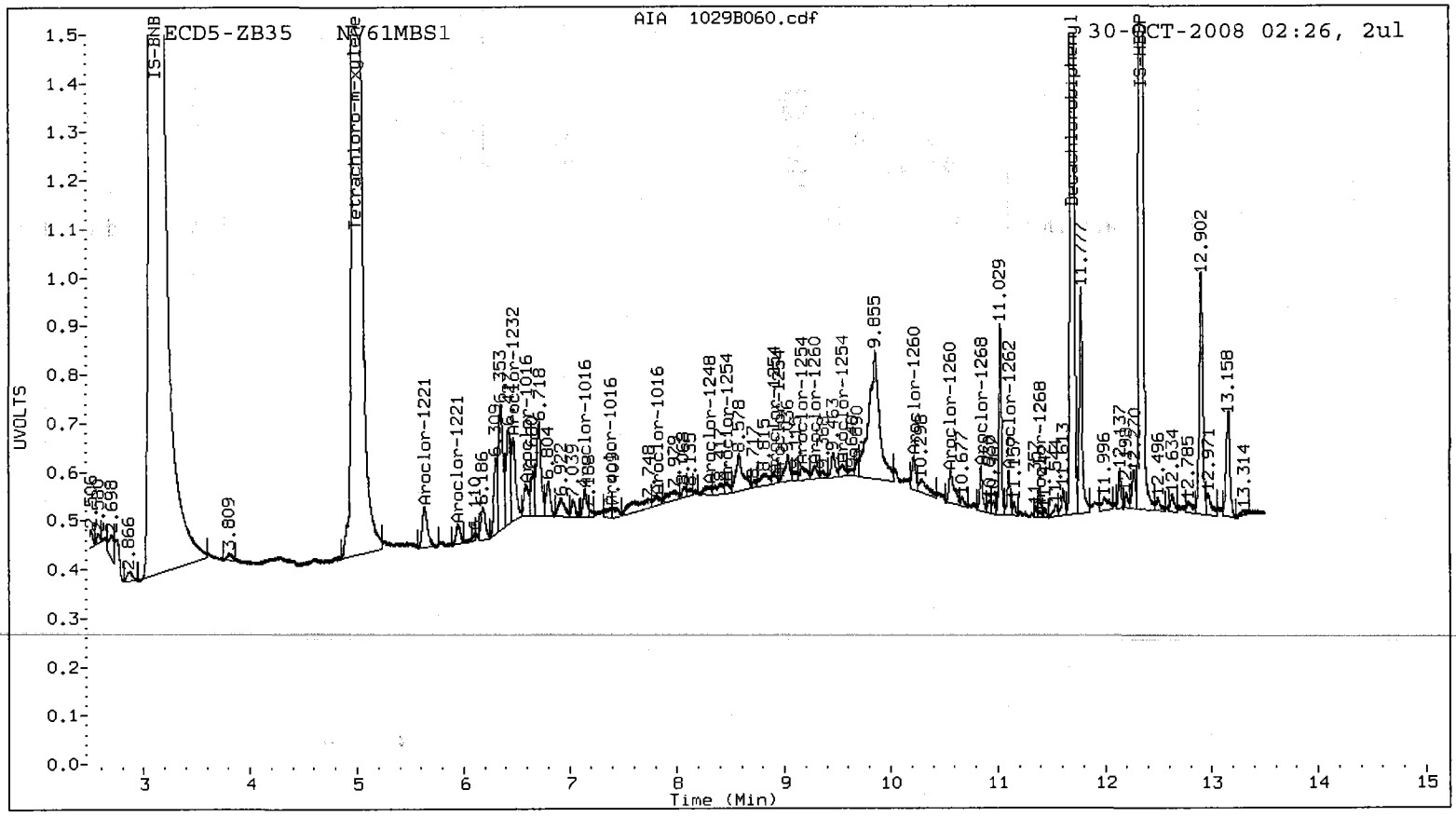
IS-BNB
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1221
Aroclor-1016
Aroclor-1016
8.138
Aroclor-1262
Aroclor-1268
10.441
Aroclor-1268
Aroclor-1262
10.983
Decachlorobiphenyl
IS-HBBP
11.924
12.238
13.142
UVOLTS
Time (Min)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Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1221
Aroclor-1232
Aroclor-1016
Aroclor-1016
Aroclor-1016
Aroclor-1248
Aroclor-1254
Aroclor-1254
Aroclor-1254
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Aroclor-1262
Aroclor-1268
11.777
Decachlorobiphenyl
IS-HBBP
12.902
13.158
13.314
UVOLTS
Time (Min)

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081028.B/1029-1.b/1029B061.d
Data file 2: 20081028.B/1029-2.b/1029B061.d
Method: /chem2/ecd5.i/20081028.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd5.i, 2ul
Quant Method: Internal Std

ARI ID: NV61LCSS1
Client ID:
Injection Date: 30-OCT-2008 02:43
Report Date: 11/06/2008 09:57
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.851	0.004	11635505	4.994	0.006	11614925	35.2	35.8	1.5	Tetrachloro-m-xylene
11.357	0.004	6835013	11.698	0.003	6992465	45.1	37.5	18.2	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	88.1	89.4
Decachlorobiphenyl	112.7	93.9

pc 11/06/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	24393719	24514446	0.5
Hexabromobiphenyl	5010762	4935718	-1.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	25207774	26254340	4.2
Hexabromobiphenyl	4413062	4700199	6.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	ZB5 Col Area	Amount	Peak#	RT	Shift	ZB35 Col Area	Amount
Aroclor-1016	1	6.317	0.005	3585183	449.2	1	6.537	0.004	5762970	473.2
Aroclor-1016	2	6.689	0.002	11194698	465.7	2	7.130	-0.003	12087987	477.3
Aroclor-1016	3	6.829	0.002	4915924	441.5	3	7.325	0.000	4924182	432.2
Aroclor-1016	4	6.936	0.003	3308452	475.6	4	7.898	0.002	3628568	467.2
	Total Col1Ave (4 peaks):				458.0		Total Col2Ave (4 peaks):			462.3 RPD = 1
	Corrected Ave (3 peaks):				452.1		Corrected Ave (3 peaks):			457.5 RPD = 1
Aroclor-1221	1	5.171	0.000	564685	157.0	1	5.586	0.006	554004	152.4
Aroclor-1221	2	5.334	0.004	599407	250.1	2	5.809	0.005	398879	214.1
Aroclor-1221	3	5.425	0.001	2676840	303.4	3	5.910	0.001	2357277	286.0
Aroclor-1221	NS	---			----	4	7.130	-0.013	12087987	5213.4
	Total Col1Ave (3 peaks):				236.8		Total Col2Ave (4 peaks):			1466.5 RPD = 144*
	Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):			217.5
Aroclor-1232	1	5.425	0.001	2676840	349.3	1	5.910	0.002	2357277	315.3
Aroclor-1232	2	6.317	0.004	3585183	937.7	2	6.537	0.003	5762970	1067.8
Aroclor-1232	3	6.689	0.003	11194698	1011.9	3	7.130	-0.011	12087987	1080.3
Aroclor-1232	4	6.829	0.002	4915924	932.5	4	7.325	-0.011	4924182	965.8
	Total Col1Ave (4 peaks):				807.8		Total Col2Ave (4 peaks):			857.3 RPD = 6
	Corrected Ave (3 peaks):				739.8		Corrected Ave (3 peaks):			783.0 RPD = 6
Aroclor-1242	1	6.317	0.002	3585183	491.7	1	6.537	0.002	5762970	540.1
Aroclor-1242	2	6.689	-0.001	11194698	524.5	2	7.130	-0.005	12087987	524.1
Aroclor-1242	3	6.829	0.000	4915924	482.6	3	7.325	-0.004	4924182	445.1
Aroclor-1242	4	7.573	0.002	4591260	498.2	4	7.898	0.001	3628568	493.2
	Total Col1Ave (4 peaks):				499.3		Total Col2Ave (4 peaks):			500.6 RPD = 0
	Corrected Ave (3 peaks):				490.8		Corrected Ave (3 peaks):			487.4 RPD = 1
Aroclor-1248	1	6.689	0.009	11194698	809.0	1	7.130	0.000	12087987	811.9
Aroclor-1248	2	7.139	0.004	2893636	293.7	2	7.537	0.004	2889285	276.6
Aroclor-1248	3	7.573	0.004	4591260	338.3	3	7.898	0.004	3628568	305.9
Aroclor-1248	4	7.931	0.006	4021459	174.9	4	8.249	-0.006	3163102	179.2
	Total Col1Ave (4 peaks):				404.0		Total Col2Ave (4 peaks):			393.4 RPD = 3
	Corrected Ave (3 peaks):				269.0		Corrected Ave (3 peaks):			253.9 RPD = 6
Aroclor-1254	1	8.171	0.005	3031694	160.9	1	8.479	0.008	3032295	165.2
Aroclor-1254	2	8.465	0.006	461610	38.8	2	8.879	0.008	656667	53.8
Aroclor-1254	3	8.560	-0.002	2542356	112.4	3	9.003	0.022	6289617	239.6
Aroclor-1254	4	8.805	-0.014	7409586	330.2	4	9.165	0.010	7944370	291.9
Aroclor-1254	5	9.081	-0.006	2784626	218.8	5	9.550	0.010	2439729	155.5
	Total Col1Ave (5 peaks):				172.2		Total Col2Ave (5 peaks):			181.2 RPD = 5
	Corrected Ave (4 peaks):				132.7		Corrected Ave (4 peaks):			153.5 RPD = 15
Aroclor-1260	1	9.462	0.003	6319748	547.4	1	9.294	0.002	11150393	443.9
Aroclor-1260	2	9.686	0.003	5790101	528.0	2	10.056	0.004	7453498	516.3
Aroclor-1260	3	9.928	0.003	13407133	542.9	3	10.218	0.002	16712602	501.9
Aroclor-1260	4	10.206	0.002	6222989	498.0	4	10.615	0.002	9859109	521.1
Aroclor-1260	5	10.324	0.002	3815883	589.6	NS	---			----
	Total Col1Ave (5 peaks):				541.2		Total Col2Ave (4 peaks):			495.8 RPD = 9
	Corrected Ave (4 peaks):				529.1		Corrected Ave (3 peaks):			487.4 RPD = 8
Aroclor-1262	1	9.686	0.003	5790101	382.3	1	10.056	0.003	7453498	369.6
Aroclor-1262	2	9.928	0.002	13407133	403.4	2	10.218	0.000	16712602	358.1
Aroclor-1262	3	10.206	0.002	6222989	595.9	3	10.568	0.002	4538733	254.5
Aroclor-1262	4	10.324	0.003	3815883	266.6	4	10.615	0.000	9859109	384.6
Aroclor-1262	5	10.755	0.001	3018006	309.4	5	11.081	0.001	3464183	324.5
	Total Col1Ave (5 peaks):				391.5		Total Col2Ave (5 peaks):			338.3 RPD = 15
	Corrected Ave (4 peaks):				340.4		Corrected Ave (4 peaks):			326.7 RPD = 4
Aroclor-1268	1	10.274	0.003	3265268	82.6	1	10.568	0.002	4538733	92.3
Aroclor-1268	2	10.324	0.003	3815883	104.4	2	10.615	0.001	9859109	225.5
Aroclor-1268	3	10.598	0.002	1571947	55.4	3	10.881	0.000	279533	8.6
Aroclor-1268	4	11.087	0.001	1075393	16.8	4	11.410	0.000	704427	10.0
	Total Col1Ave (4 peaks):				64.8		Total Col2Ave (4 peaks):			84.1 RPD = 26

Corrected Ave (3 peaks): 51.6 Corrected Ave (3 peaks): 36.9 RPD = 33

Total PCB Area Col1 (4.947 - 11.254) = 171668526 Col1 Total PCB = 1.0 ppm*

Total PCB Area Col2 (5.088 - 11.595) = 191341484 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Analysis
Extraction Bench Sheets/Run Logs

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NV61

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

PCB – Soil / Sediment
Sonication (3550B) (SOP # 350S)

Preparation Test PCB # 6
ARI Job No(s) NV61

PSDDA (10 ppb)
Batch set up by: ~~JH~~

Bottle #	ARI Sample I.D.	Verify Client ID	Volume Extracted	KD	Turbo Vap 1 (2) 3	(REQ) Acid Clean Y	(REQ) Sulfur Clean Y	(Opt) Silica Gel Clean (1:2.5) Y /(N)	Turbo Vap 1 2 3	Final Effective Volume	Volume to Lab	Comments
	MBS NV61	Date 10/27/08	25.00g			2.5mL	2.5mL	1mL		2.5mL	1mL	10g Actual Weight
	SBS		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
	~~SBSDup~~		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
	NV61 A	checked	34.00	↓	↓	↓	↓			↓	↓	

Analyst/Date: AR 10/27/08 → 10-28-08 TH 10/28/08 → TH 10/28/08 →
WC 10/29/8 (Sonicated only)

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	N2	50µL	5/27/09	TKI	AR
Spike	1	63µL	8/26/09	TKI	AR
Extraction Time:	15:55				

SPECIAL INSTRUCTIONS: 1. Extract 3X with 8:2 Hexane/Acetone. 2. KD (Normal Drying Column) on 100° bath.

3. Exchange to Hexane. 4. TurboVap. 5. Clean-ups Required. 6. TurboVap (if Silica Gel Clean). 7. Vial.

A. ~~Archive~~/Freeze Y/ N

0140

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory
Analyst Notes

ARI Job No.: NV61 Client ID: Anchor Environmental, LLC

Parameter: PCB PSDDA (1ϕ ppb) Client Project: Eddon Boatyard

SOP Number(s): 35ϕ5 **No Anomalies:**

NV61 **List problems, concerns, corrective actions and any other pertinent information** 10/23/08 ϕf.

↓

Analyst Initials:		**Date:**	

3056F

Revision 006
1/12/07

Extractions Total Solids-extts
Data By: Jim Hawk
Created: 10/23/08

Worklist: 9596
Analyst: JBH
Comments:

	ARI ID CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1.	NV61A 08-28611 EB-SE05-A-081021	1.19	11.91	9.22		NR

0142

Analytical Resources Inc.: Organics Instrument Log

ECD5 Serial No.: US00034118

Date: 10/28/08 Analysis: PCB Analyst: JR

GC Program: PCB2 Column No: 135079/105681 Column Type: ZB5/ZB35

Instrument Tune (.U or .CT.): _____ EM Voltage: _____

Calibration File: _____ Curve Date: 10/28/08

IS/SS	Ical/Ccal	LCS/ICV
	1540-1	
1546-3	1548-1,2,3	
	1549-1,2	

	Inject Date/Time	Filename	DF	LabID
1	28-OCT-2008 11:05	1028B011.d	1	IB
2	28-OCT-2008 11:22	1028B012.d	1	250 PPB AR1
3	28-OCT-2008 11:39	1028B013.d	1	20 PPB AR1
4	28-OCT-2008 11:56	1028B014.d	1	1000 PPM AR
5	28-OCT-2008 12:14	1028B015.d	1	100 PPB AR1
6	28-OCT-2008 12:31	1028B016.d	1	500 PPB AR1
7	28-OCT-2008 12:48	1028B017.d	1	AR1660 ICV
8	28-OCT-2008 13:06	1028B018.d	1	250 PPB AR1
9	28-OCT-2008 13:23	1028B019.d	1	250 PPB AR1
10	28-OCT-2008 13:40	1028B020.d	1	250 PPB AR1
11	28-OCT-2008 13:58	1028B021.d	1	250 PPB AR2
12	28-OCT-2008 14:15	1028B022.d	1	250 PPB AR3

JR 11/05/08

new columns installed JR 10/31/08 in ECD6 not ECD5 JR 10/31/08

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

ARI Project ID: PCB curve Client ID: A.R.I.

ARI SOP: (403S(PCB)) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) Other

Parameter(s): PCB's TCMX DCB

Instrument: FID: N/A ECD: 5

Dates: Curve: 6/28/08 Analysis Start: 10/23/08

Endrin/DDT Breakdown <15%? YES / NO / (NA) LCS/LCSD Recovery in Control? YES / NO (NA)

Cal Meets RF & %RSD Criteria? (YES) / NO MS/MSD Recovery in Control? YES / NO

Cal Meets RF & %RSD Criteria (YES) / NO Surrogate Recovery in Control? (YES) / NO

Internal Standard Meets Criteria? (YES) / NO Special Analysis Criteria Met? YES / NO (NA)

Method Blank in Control? YES / NO (NA)

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes (No)

Analyst Signature: [signature] Date: 10/29/08

Reviewer's Signature: [signature] Date: 10/29/08

Analytical Resources Inc.: Organics Instrument Log

ECD5 Serial No.: US00034118

Date: cont. Analysis: PCB Analyst: _____

GC Program: _____ Column No: 105681/135079 Column Type: _____

Instrument Tune (.U or .CT.): _____ EM Voltage: _____

Calibration File: _____ Curve Date: _____

IS/SS	Ical/Ccal	LCS/ICV
	1540-1	
1546-3	1548-1,2,3	
	1549-1,2	

	Inject Date/Time	Filename	DF	LabID
51	29-OCT-2008 23:52	1029B051.d	1	AR1660
52	30-OCT-2008 00:09	1029B052.d	1	NV04MBS1
53	30-OCT-2008 00:26	1029B053.d	1	NV04LCSS1
54	30-OCT-2008 00:43	1029B054.d	1	NV04A
55	30-OCT-2008 01:00	1029B055.d	1	NV04B
56	30-OCT-2008 01:17	1029B056.d	1	NV04C
57	30-OCT-2008 01:34	1029B057.d	1	NV04D
58	30-OCT-2008 01:51	1029B058.d	1	NV04DMS
59	30-OCT-2008 02:09	1029B059.d	1	NV04DMSD
60	30-OCT-2008 02:26	1029B060.d	1	NV61MBS1
61	30-OCT-2008 02:43	1029B061.d	1	NV61LCSS1
62	30-OCT-2008 03:00	1029B062.d	1	NV61A
63	30-OCT-2008 03:17	1029B063.d	1	RINSE
64	30-OCT-2008 03:34	1029B064.d	1	RINSE
65	30-OCT-2008 03:51	1029B065.d	1	AR1248
66	30-OCT-2008 04:08	1029B066.d	1	AR1660

11/05/08

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

0146

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

ARI Project ID: NV61 Client ID: Eddon boatyard

ARI SOP: 403S(PCB) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) Other

Parameter(s): PCB's TCMX DCB.

Instrument: FID: N/A ECD: 5

Dates: Curve: 10/28/08 Analysis Start: 10/29/08

Endrin/DDT Breakdown <15%?	YES / NO / NA	LCS/LCSD Recovery in Control?	YES / NO
Cal Meets RF & %RSD Criteria?	YES / NO	MS/MSD Recovery in Control?	YES / NO ///
CCal Meets RF & %RSD Criteria	YES / NO	Surrogate Recovery in Control?	YES / NO
nternal Standard Meets Criteria?	YES / NO	Special Analysis Criteria Met?	YES / NO / NA
Method Blank in Control?	YES / NO		

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary): DCB high 1% on column 1 is w/in QC for column 2 for mb.

Additional Details on Reverse: Yes / No

Analyst Signature: [signature] Date: 11/06/08

Reviewer's Signature: [signature] Date: 11/6/08

0145

Metals Analysis
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NV61

prepared
by

Analytical Resources, Inc.

Cover Page

INORGANIC ANALYSIS DATA PACKAGE

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

SDG: NV61

CLIENT ID	ARI ID	ARI LIMS ID	REPREP
EB-SE05-A-081021	NV61A	08-28611	
PBS	NV61MB1	08-28611	
LCSS	NV61MB1SPK	08-28611	

Were ICP interelement corrections applied ?	Yes/No	YES
Were ICP background corrections applied ?	Yes/No	YES
If yes - were raw data generated before application of background corrections ?	Yes/No	NO

Comments: _____

THIS DATA PACKAGE HAS BEEN REVIEWED AND AUTHORIZED FOR RELEASE BY:

Signature: _____ Name: Jay Kuhn

Date: 11/12/05 Title: Inorganics Director

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: NV61LCS
LIMS ID: 08-28611
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/08

QC Report No: NV61-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	208	200	104%	
Cadmium	6010B	49.0	50.0	98.0%	
Chromium	6010B	48.5	50.0	97.0%	
Copper	6010B	49.5	50.0	99.0%	
Lead	6010B	202	200	101%	
Mercury	7471A	1.06	1.00	106%	
Silver	6010B	52.2	50.0	104%	
Zinc	6010B	49	50	98.0%	

Reported in mg/kg-dry

N-Control limit not met
NA-Not Applicable, Analyte Not Spiked
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: METHOD BLANK**

Lab Sample ID: NV61MB
LIMS ID: 08-28611
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/08

QC Report No: NV61-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	10/24/08	6010B	11/10/08	7440-38-2	Arsenic	5	5	U
3050B	10/24/08	6010B	11/10/08	7440-43-9	Cadmium	0.2	0.2	U
3050B	10/24/08	6010B	11/10/08	7440-47-3	Chromium	0.5	0.5	U
3050B	10/24/08	6010B	11/10/08	7440-50-8	Copper	0.2	0.2	U
3050B	10/24/08	6010B	11/10/08	7439-92-1	Lead	2	2	U
CLP	10/24/08	7471A	10/31/08	7439-97-6	Mercury	0.05	0.05	U
3050B	10/24/08	6010B	11/10/08	7440-22-4	Silver	0.3	0.3	U
3050B	10/24/08	6010B	11/10/08	7440-66-6	Zinc	1	1	U

U-Analyte undetected at given RL
RL-Reporting Limit

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

UNITS: ug/L

SDG: NV61

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Arsenic	AS	ICP	IP111021	2000.0	2019.30	101.0	2000.0	2009.24	100.5	2018.93	100.9	2023.19	101.2				
Cadmium	CD	ICP	IP111021	1000.0	994.40	99.4	1000.0	988.36	98.8	989.43	98.9	996.34	99.6				
Chromium	CR	ICP	IP111021	1000.0	953.97	95.4	1000.0	954.26	95.4	948.64	94.9	947.63	94.8				
Copper	CU	ICP	IP111021	1000.0	1018.05	101.8	1000.0	1018.07	101.8	1022.77	102.3	1028.63	102.9				
Lead	PB	ICP	IP111021	2000.0	1994.49	99.7	2000.0	1987.76	99.4	2018.69	100.9	2013.82	100.7				
Mercury	HG	CVA	HG103102	8.0	8.46	105.8	4.0	4.08	102.0	4.08	102.0	4.09	102.3	4.08	102.0		
Silver	AG	ICP	IP111021	1000.0	1028.64	102.9	1000.0	1029.55	103.0	1038.47	103.8	1040.69	104.1				
Zinc	ZN	ICP	IP111021	1000.0	1008.12	100.8	1000.0	1006.71	100.7	1005.95	100.6	1003.18	100.3				

Control Limits: Mercury 80-120; Other Metals 90-110

CRDL Standard

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

UNITS: ug/L

SDG: NV61

ANALYTE	EL	M	RUN	CRA/I TV	CR-1	%R	CR-2	%R	CR-3	%R	CR-4	%R	CR-5	%R	CR-6	%R
Arsenic	AS	ICP	IP111021	50.0	54.10	**108.2**	60.54	**121.1**								
Cadmium	CD	ICP	IP111021	2.0	1.86	**93.0**	2.00	**100.0**								
Chromium	CR	ICP	IP111021	5.0	4.24	**84.8**	5.31	**106.2**								
Copper	CU	ICP	IP111021	2.0	1.89	**94.5**	1.38	**69.0**								
Lead	PB	ICP	IP111021	20.0	19.27	**96.4**	18.31	**91.6**								
Mercury	HG	CVA	HG103102	0.1	0.11	**110.0**										
Silver	AG	ICP	IP111021	3.0	3.35	**111.7**	4.03	**134.3**								
Zinc	ZN	ICP	IP111021	10.0	7.62	**76.2**	7.78	**77.8**								

Control Limits: no control limits have been established by the EPA at this time.

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

UNITS: ug/L

SDG: NV61

ANALYTE	EL	METH	RUN	CRDL	IDL	ICB	C	CCB1	C	CCB2	C	CCB3	C	CCB4	C	CCB5	C
Arsenic	AS	ICP	IP111021	10.0	50.0	50.0	U	50.0	U	50.0	U	50.0	U				
Cadmium	CD	ICP	IP111021	5.0	2.0	2.0	U	2.0	U	2.0	U	2.0	U				
Chromium	CR	ICP	IP111021	10.0	5.0	5.0	U	5.0	U	5.0	U	5.0	U				
Copper	CU	ICP	IP111021	25.0	2.0	2.0	U	2.0	U	2.0	U	2.0	U				
Lead	PB	ICP	IP111021	3.0	20.0	20.0	U	20.0	U	20.0	U	20.0	U				
Mercury	HG	CVA	HG103102	0.2	0.1	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U		
Silver	AG	ICP	IP111021	10.0	3.0	3.0	U	3.0	U	3.0	U	3.0	U				
Zinc	ZN	ICP	IP111021	20.0	10.0	10.0	U	10.0	U	10.0	U	10.0	U				

ICP Interference Check Sample

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

ICS SOURCE: I.V.

PROJECT: EDDON BOATYARD

RUNID: IP111021

SDG: NV61

INSTRUMENT ID: OPTIMA ICP 1

UNITS: ug/L

ANALYTE	ICSA TV	ICSAB TV	ICSA1	ICSAB1	%R	ICSA2	ICSAB2	%R	ICSA3	ICSAB3	%R
Aluminum	200000	200000	198866.2	199898.7	**99.9**						
Antimony		1000	16.8	1080.6	**108.1**						
Arsenic		1000	13.9	1052.2	**105.2**						
Barium		1000	0.6	952.8	**95.3**						
Beryllium		1000	0.2	1022.3	**102.2**						
Boron			-2.8	-3.6							
Cadmium		1000	0.8	983.6	**98.4**						
Calcium	100000	100000	98732.4	99239.8	**99.2**						
Chromium		1000	-0.6	947.0	**94.7**						
Cobalt		1000	-0.3	914.4	**91.4**						
Copper		1000	0.9	1021.8	**102.2**						
Iron	200000	200000	197288.6	197807.2	**98.9**						
Lead		1000	-22.5	934.3	**93.4**						
Magnesium	100000	100000	101258.9	101979.0	**102.0**						
Manganese		1000	-0.7	961.3	**96.1**						
Molybdenum			0.9	0.4							
Nickel		1000	-3.1	937.8	**93.8**						
Potassium			-93.9	-187.8							
Selenium		1000	-30.8	1005.0	**100.5**						
Silicon			55.0	51.3							
Silver		1000	1.0	1072.8	**107.3**						
Sodium			135.4	128.0							
Strontium			2.2	2.2							
Thallium		1000	-14.3	949.1	**94.9**						
Tin			-10.3	-11.9							
Titanium			0.6	1.1							
Vanadium		1000	-3.1	999.7	**100.0**						
Zinc		1000	-1.1	935.5	**93.6**						

IDLs and ICP Linear Ranges

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

SDG: NV61 UNITS: ug/L

ANALYTE	EL	METH	INSTRUMENT	WAVELENTH (nm)	GFA BACK-GROUND	CLP CRDL	RL	RL DATE	ICP LINEAR RANGE (ug/L)	ICP LR DATE
Arsenic	AS	ICP	OPTIMA ICP 1	188.98		10	50.0	3/1/2008	30000.0	7/19/2008
Cadmium	CD	ICP	OPTIMA ICP 1	228.80		5	2.0	3/1/2008	20000.0	7/19/2008
Chromium	CR	ICP	OPTIMA ICP 1	267.72		10	5.0	3/1/2008	100000.0	7/19/2008
Copper	CU	ICP	OPTIMA ICP 1	324.75		25	2.0	3/1/2008	40000.0	7/19/2008
Lead	PB	ICP	OPTIMA ICP 1	220.35		3	20.0	3/1/2008	300000.0	7/19/2008
Mercury	HG	CVA	CETAC MERCURY	253.70		0.2	0.1	3/1/2008		
Silver	AG	ICP	OPTIMA ICP 1	328.07		10	3.0	3/1/2008	5000.0	7/19/2008
Zinc	ZN	ICP	OPTIMA ICP 1	206.20		20	10.0	3/1/2008	100000.0	7/19/2008

ICP Interelement Correction Factors

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

IEC DATE: 11/4/2008

SDG: NV61

INSTRUMENT ID: OPTIMA ICP 1

ANALYTE	WAVELENGTH	AL	AS	BA	BE	CA	CD	CO	CR	CU	FE
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	-0.1462930	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	1.2732700	14.5309000	0.0000000	0.0000000
Arsenic	188.98	0.2317100	0.0000000	0.0000000	0.0000000	0.1045800	0.0000000	0.1353450	1.3938700	0.0000000	0.0801243
Barium	233.53	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.2427830	0.0000000	0.0000000	0.0465584
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	3.8834600	0.0000000	0.0000000	0.0000000	0.0000000	0.1148400	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	1.2165400	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.1207060	0.0000000	0.0000000	-0.0145573
Cobalt	228.62	0.0000000	0.0000000	0.2332610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.3649680	-0.0508337	0.0000000	-0.0839560
Iron	273.96	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.6286400	0.0000000	0.0000000
Lead	220.35	-0.2996770	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-1.9186900	1.3143900	0.0759871
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-1.8711800	-1.0657700	0.0000000	0.4833540
Manganese	257.61	0.0097800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.0057526
Molybdenum	202.03	0.0000000	0.0000000	0.0271856	0.0000000	0.0702558	0.0000000	-0.1092540	0.0294891	0.0921328	-0.0569307
Nickel	231.60	0.0000000	0.0000000	0.4983500	0.0000000	0.0000000	0.0000000	0.2238930	0.0000000	0.0000000	0.0473266
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	-0.1043510	0.0000000	0.0000000	0.0000000	-0.1477800	0.0000000	0.0000000	0.0000000	0.0000000	-0.2448260
Silicon	288.16	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-3.9507100	0.0000000	-0.9138100	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0857551	-0.0400361
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.0000000	0.0000000	-0.9027370	0.0000000	0.0000000	0.0000000	7.0294700	0.3132260	0.0000000	0.0000000
Tin	189.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0571957
Titanium	334.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0687732	0.0000000	0.0000000	0.2648950	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-6.5185000	0.0000000	0.0864440
Zinc	206.20	-0.0371739	0.0000000	0.0000000	0.0000000	-0.0534782	0.0000000	0.0000000	0.3322470	0.0000000	0.0000000

ICP Interelement Correction Factors

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

IEC DATE: 11/4/2008

SDG: NV61

INSTRUMENT ID: OPTIMA ICP 1

ANALYTE	WAVELENGTH	MG	MN	MO	NI	PB	SB	TI	TL	V	ZN
Aluminum	308.22	0.0000000	0.0000000	23.0550000	0.0000000	0.0000000	0.0000000	0.7781760	0.0000000	13.6611000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-2.6770800	0.0000000	-5.2836000	0.0000000
Arsenic	188.98	0.0000000	0.4936670	4.7372600	0.1042370	0.0000000	-0.4305420	1.8128300	0.0000000	3.0445100	0.1894490
Barium	233.53	0.0000000	0.0000000	-0.1166780	0.2757250	0.0000000	0.0000000	0.0000000	0.0000000	0.4678230	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0152698	0.0000000	2.5974700	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	-0.2426340	0.0000000	0.0000000	0.0000000	0.0000000	0.0721945	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0416673	0.1791180	0.0888594	0.0000000	0.0000000	0.0000000	0.0488191	0.0000000	0.2223410	0.0000000
Cobalt	228.62	0.0000000	0.0000000	-0.4392950	0.0951613	0.0000000	0.0000000	1.9019500	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.3787470	0.0000000	0.0000000	0.0000000	0.1893670	0.0000000	0.0000000	0.0000000
Iron	273.96	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	1.3129600	0.0000000
Lead	220.35	0.0000000	0.0000000	-0.3024400	0.2396540	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	-1.7766400	-2.2128300	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0292840	0.0000000	0.0000000	0.0000000	-0.5195260	0.0390086	0.0000000	0.0000000	-0.0374540	0.0000000
Molybdenum	202.03	0.0056700	0.0000000	0.0000000	0.0941824	-0.0211812	0.0000000	-0.0446269	0.0000000	0.0000000	-0.2152140
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.8345070	0.0000000	0.3671190	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	-0.0583736	0.0000000	0.0000000	0.5569670	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	288.16	-0.1537840	0.0000000	-2.0250800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0393833	0.0000000	-0.1702720	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	200.9930000	0.0000000	0.0000000	395.0870000
Thallium	190.80	0.0000000	1.6117800	2.0980400	0.0000000	0.0981087	0.0000000	1.5805300	0.0000000	4.7416800	0.0000000
Tin	189.93	-0.0435898	0.0000000	0.0000000	0.0000000	0.0000000	-0.4200130	-0.3361450	0.0000000	0.0000000	0.0000000
Titanium	334.90	0.0000000	0.0000000	0.9267120	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	-0.1237460	-7.7519200	0.0000000	0.0000000	0.0000000	0.7845100	0.0000000	0.0000000	0.0000000
Zinc	206.20	-0.0720735	0.3197280	0.3020600	0.0000000	-0.1262840	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Preparation Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

SDG: NV61

ANALYSIS METHOD: ICP

ARI PREP CODE: SWC

PREPDATE: 10/24/2008

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
EB-SE05-A-081021	NV61A	1.032	0.0	50.0
PBS	NV61MB1	1.000	0.0	50.0
LCSS	NV61MB1SPK	1.000	0.0	50.0

Preparation Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

SDG: NV61

ANALYSIS METHOD: CVA

ARI PREP CODE: SMM

PREPDATE: 10/24/2008

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
EB-SE05-A-081021	NV61A	0.208	0.0	100.0
PBS	NV61MB1	0.200	0.0	100.0
LCSW	NV61MB1SPK	0.200	0.0	100.0

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD | INSTRUMENT ID: OPTIMA ICP 1 | START DATE: 11/10/2008

SDG: NV61 | RUNID: IP111021 | METHOD: ICP | END DATE: 11/10/2008

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
S0	S0	1.00	11044		X		X					X		X	X									X									X
S2	S2	1.00	11112									X		X	X																		
S3	S3	1.00	11155		X		X																	X									X
S4	S4	1.00	11213																														
S5	S5	1.00	11262																														
S0	S0	1.00	11593		X		X					X		X	X									X									X
ICV	ICV	1.00	12040		X		X					X		X	X									X									X
ICB	ICB	1.00	12104		X		X					X		X	X									X									X
CRI	CRII	1.00	12172		X		X					X		X	X									X									X
ICSA	ICSAI	1.00	12235		X		X					X		X	X									X									X
ICSAB	ICSABI	1.00	12303		X		X					X		X	X									X									X
CCV	CCV1	1.00	12375		X		X					X		X	X									X									X
CCB	CCB1	1.00	12443		X		X					X		X	X									X									X
ZZZZZZ	DICHECK	1.00	12510																														
PBS	NV61MB1	2.00	12574		X		X					X		X	X									X									X
ZZZZZZ	NV43MB1	1.00	13042																														
ZZZZZZ	QC21	1.00	13110																														
ZZZZZZ	QC7M	1.00	13174																														
ZZZZZZ	NV43ADUP	1.00	13242																														
ZZZZZZ	NV43A	1.00	13310																														
ZZZZZZ	NV43ASPK	1.00	13374																														
ZZZZZZ	NV43MB1SPK	1.00	13442																														
LCSS	NV61MB1SPK	2.00	13510		X		X					X		X	X									X									X
CCV	CCV2	1.00	13574		X		X					X		X	X									X									X
CCB	CCB2	1.00	14041		X		X					X		X	X									X									X
ZZZZZZ	NW01MB1	1.00	14105																														
ZZZZZZ	NW19MB	1.00	14173																														
ZZZZZZ	NW19G	1.00	14241																														
ZZZZZZ	NW19H	1.00	14305																														
ZZZZZZ	NW19I	1.00	14373																														
ZZZZZZ	NW19J	1.00	14443																														
ZZZZZZ	NW19K	1.00	14512																														
ZZZZZZ	NW19L	1.00	14582																														
EB-SE05-A-081021	NV61A	2.00	15051		X		X					X		X	X									X									X
ZZZZZZ	NW19MBSPK	1.00	15114																														

FORM XIV

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD | INSTRUMENT ID: OPTIMA ICP 1 | START DATE: 11/10/2008

SDG: NV61 | RUNID: IP111021 | METHOD: ICP | END DATE: 11/10/2008

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
CCV	CCV3	1.00	15182		X		X					X		X	X									X									X
CCB	CCB3	1.00	15245		X		X					X		X	X									X									X

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD | INSTRUMENT ID: CETAC MERCURY | START DATE: 10/31/2008

SDG: NV61 | RUNID: HG103102 METHOD: CVA | END DATE: 10/31/2008

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
S0	S0	1.00	10152														X																
S0.1	S0.1	1.00	10165														X																
S0.5	S0.5	1.00	10183														X																
S1	S1	1.00	10200														X																
S2	S2	1.00	10214														X																
S5	S5	1.00	10232														X																
S10	S10	1.00	10250														X																
ICV	AICV	1.00	10281														X																
ICB	ICB	1.00	10294														X																
CCV	ACCV1	1.00	10312														X																
CCB	CCB1	1.00	10330														X																
CRA	CRA	1.00	10344														X																
ZZZZZZ	NU49MB1	1.00	10361																														
ZZZZZZ	NU49MB1SPK	1.00	10375																														
ZZZZZZ	NU49A	1.00	10393																														
ZZZZZZ	NU49ADUP	1.00	10410																														
ZZZZZZ	NV04MB1	1.00	10424																														
ZZZZZZ	NV04MB1SPK	1.00	10442																														
ZZZZZZ	NV04A	1.00	10455																														
ZZZZZZ	NV04ADUP	1.00	10473																														
ZZZZZZ	NV04ASPK	1.00	10491																														
CCV	ACCV2	1.00	10505														X																
CCB	CCB2	1.00	10523														X																
ZZZZZZ	NV04B	1.00	10541																														
ZZZZZZ	NV04C	1.00	10554																														
ZZZZZZ	NV04D	1.00	10572																														
ZZZZZZ	NV25RMB1	1.00	10585																														
ZZZZZZ	NV25RMB1SPK	1.00	11003																														
ZZZZZZ	NV25RA	1.00	11021																														
ZZZZZZ	NV25RADUP	1.00	11034																														
ZZZZZZ	NV25RASPK	1.00	11052																														
PBW	NV61MB1	1.00	11070														X																
LCSW	NV61MB1SPK	1.00	11084														X																
CCV	ACCV3	1.00	11101														X																
CCB	CCB3	1.00	11120														X																

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD | INSTRUMENT ID: CETAC MERCURY | START DATE: 10/31/2008

SDG: NV61 | RUNID: HG103102 METHOD: CVA | END DATE: 10/31/2008

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
EB-SE05-A-081021	NV61A	1.00	11133														X																
ZZZZZZ	NV66MB1	1.00	11151																														
ZZZZZZ	NV66MB1SPK	1.00	11165																														
ZZZZZZ	NV66A	1.00	11183																														
ZZZZZZ	NW20MB1	1.00	11200																														
ZZZZZZ	NW20MB1SPK	1.00	11214																														
ZZZZZZ	NW20A	1.00	11231																														
ZZZZZZ	NW20B	1.00	11245																														
ZZZZZZ	NW20C	1.00	11263																														
ZZZZZZ	NW20D	1.00	11281																														
CCV	ACCV4	1.00	11294														X																
CCB	CCB4	1.00	11313														X																

Metals Analysis
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NV61

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: EB-SE05-A-081021
SAMPLE

Lab Sample ID: NV61A
LIMS ID: 08-28611
Matrix: Sediment
Data Release Authorized:
Reported: 11/11/08

QC Report No: NV61-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/21/08
Date Received: 10/21/08

Percent Total Solids: 80.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	10/24/08	6010B	11/10/08	**7440-38-2**	**Arsenic**	6	**9**	
3050B	10/24/08	6010B	11/10/08	**7440-43-9**	**Cadmium**	0.2	**0.4**	
3050B	10/24/08	6010B	11/10/08	**7440-47-3**	**Chromium**	0.6	**27.4**	
3050B	10/24/08	6010B	11/10/08	**7440-50-8**	**Copper**	0.2	**84.6**	
3050B	10/24/08	6010B	11/10/08	**7439-92-1**	**Lead**	2	**34**	
CLP	10/24/08	7471A	10/31/08	**7439-97-6**	**Mercury**	0.06	**0.54**	
3050B	10/24/08	6010B	11/10/08	7440-22-4	Silver	0.4	0.4	U
3050B	10/24/08	6010B	11/10/08	**7440-66-6**	**Zinc**	1	**188**	

U-Analyte undetected at given RL
RL-Reporting Limit

Metals Analysis
Instrument Raw Data and Run Logs

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NV61

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

OPTIMA ICP SAMPLE RUN LOG

IEC Date: 11.4.08 Analysis Date: 11.10.08 Analyst: RW

LR Date: 1.24.08 Page: 1 of 8

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		std 0			2544-1
		2			2545-1
		3			-2
		4			-3
		5			-4
		0			
		ICV			2540-1
		ICB			
		CRI			
		ICSA			
		ICSAB			
		CCV1			
		CCB1			
		DI Check			
		NV61 MB1	SOC	2	
		NV43 MB1	DMN		
		QC21		✓	
		QC7M		✓	
		NV43 Adup	DMN	✓	
		A			
		Asph		✓	0.08ml KPsph
		MB1sph		✓	11
		NV61 MB1sph	SOC	2 ✓	
		CCV2			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

OPTIMA ICP SAMPLE RUN LOG

IEC Date: — Analysis Date: 11.10.08 Analyst: BW

LR Date: — Page: 2 of 8

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		CCB2			
		NW01 MB1	TWC		
		NW19 MB			
		G			
		H			
		I			
		J			
		K			
		L			
		NV61 A	SWC	2	
		NW19 MBSph	TWC		✓
		CCV3			
		CCB3			
		NW01 A-L	TWC	5	✓
		A		1	
		Adup			✓
		Asph			✓ Ca Fe Mg Mn STL
		B			
		C			
		D			
		E			
		F			
		MB1sph			✓
		CCV4			

11.11.8

0158

ANALYTICAL RESOURCES INCORPORATED

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA **Analysis Date:** 11.10.08

	Analyst BW 11.11	Peer MH 11-11	Comment
Logbook:			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration:			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
Calibration Verification:			
ICV/CCV	✓	✓	See log 1
ICB/CCB	✓	✓	
Samples:			
RSD's & SD's	✓	✓	
Internal Standards	✓	✓	
Carry-over	✓	✓	See log
Method QC:			
CRI/CRA	✓	✓	
ICSA/ICSAB	✓	✓	
Post Spikes/Serial Dilutions	✓	✓	
Analytic Spikes	—	—	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	
Matrix Duplicates	✓	✓	
Method Blanks	✓	✓	MW26
Data Distribution:			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
Necessary Analysts Notes and CAF's	✓	✓	MW26

Nebulizer Parameters: Hg_ReAlign

Analyte	Back Pressure	Flow
All	138.0 kPa	0.50 L/min

==========

11/10/2008 11:01:39 AM Hg ReAlign... Actual peak offset (nm): -0.001
Drift (nm): -0.000 Slit adjustment: 0

==========

==========

Analysis Begun

Start Time: 11/10/2008 11:04:49 AM **Plasma On Time: 11/10/2008 10:13:58 AM**
Logged In Analyst: metals **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\CRISET.sif
Batch ID:
Results Data Set: PE081110
Results Library: C:\pe\Administrator\Results\Results.mdb

==========

Method Loaded
Method Name: ARIIEC6AN **Method Last Saved: 11/4/2008 12:19:31 PM**
IEC File: IEC38.iec **MSF File:**
Method Description: 12Axial Elements

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Al 308.215	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
B 249.677	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Be 313.042	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cd 228.802	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Cr 267.716	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Fe 273.955	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Mg 279.077	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Na 330.237	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ni 231.604	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Si 288.158	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Ti 334.903	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Zn 206.200	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
ScA 357.253	Lin, Calc Int	Peak Area	Axial	n/a	n/a
ScR 361.383	Lin, Calc Int	Peak Area	Radial	n/a	n/a

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Sequence No.: 1 **Autosampler Location: 1**
Sample ID: Calib Blank 1 **Date Collected: 11/10/2008 11:04:49 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	138.0 kPa	0.50 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2020023.7	11089.21	0.55%	100.0	%
ScR 361.383	144511.0	499.41	0.35%	100.0	%
Ag 328.068†	4760.5	23.56	0.49%	[0.00]	mg/L
Al 308.215†	-773.6	30.63	3.96%	[0.00]	mg/L
As 188.979†	141.6	5.97	4.22%	[0.00]	mg/L
B 249.677†	-67.2	2.20	3.27%	[0.00]	mg/L
Ba 233.527†	75.6	5.77	7.63%	[0.00]	mg/L
Be 313.042†	-84.1	23.84	28.33%	[0.00]	mg/L
Ca 317.933†	237.1	20.84	8.79%	[0.00]	mg/L
Cd 228.802†	417.2	8.04	1.93%	[0.00]	mg/L
Co 228.616†	-139.1	10.48	7.54%	[0.00]	mg/L
Cr 267.716†	62.1	0.95	1.53%	[0.00]	mg/L
Cu 324.752†	1886.0	71.49	3.79%	[0.00]	mg/L
Fe 273.955†	-22.4	1.25	5.61%	[0.00]	mg/L
K 766.490†	3932.0	142.41	3.62%	[0.00]	mg/L
Mg 279.077†	-582.8	3.32	0.57%	[0.00]	mg/L
Mn 257.610†	153.7	6.22	4.05%	[0.00]	mg/L
Mo 202.031†	-179.7	1.63	0.91%	[0.00]	mg/L
Na 589.592†	-664.4	55.21	8.31%	[0.00]	mg/L
Na 330.237†	295.3	9.83	3.33%	[0.00]	mg/L
Ni 231.604†	38.3	2.49	6.52%	[0.00]	mg/L
Pb 220.353†	131.3	11.95	9.10%	[0.00]	mg/L
Sb 206.836†	-63.9	3.94	6.16%	[0.00]	mg/L
Se 196.026†	-69.9	3.19	4.56%	[0.00]	mg/L
Si 288.158†	-71.5	16.97	23.73%	[0.00]	mg/L
Sn 189.927†	9.4	2.51	26.76%	[0.00]	mg/L
Sr 421.552†	-318.1	17.61	5.54%	[0.00]	mg/L
Ti 334.903†	-203.9	9.33	4.58%	[0.00]	mg/L
Tl 190.801†	-67.0	2.12	3.17%	[0.00]	mg/L
V 292.402†	-812.7	31.22	3.84%	[0.00]	mg/L
Zn 206.200†	-60.0	1.91	3.19%	[0.00]	mg/L

Sequence No.: 2
Sample ID: STD2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/10/2008 11:11:27 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	138.0 kPa	0.50 L/min

Mean Data: STD2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2018310.4	11200.83	0.55%	99.92	%
ScR 361.383	143157.4	2341.87	1.64%	99.06	%
Ba 233.527†	75528.5	391.78	0.52%	[10]	mg/L
Cd 228.802†	485951.0	3804.77	0.78%	[10]	mg/L
Co 228.616†	542213.9	2169.16	0.40%	[10]	mg/L
Cr 267.716†	43201.7	194.75	0.45%	[10]	mg/L
Cu 324.752†	2376871.4	18143.04	0.76%	[10]	mg/L
Mn 257.610†	351977.6	560.75	0.16%	[10]	mg/L
V 292.402†	1252245.3	8146.12	0.65%	[10]	mg/L

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: STD3 **Date Collected: 11/10/2008 11:15:54 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	139.0 kPa	0.50 L/min

Mean Data: STD3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2009885.7	15572.94	0.77%	99.50	%
ScR 361.383	144628.7	437.47	0.30%	100.1	%
Ag 328.068†	167194.0	432.46	0.26%	[1.0]	mg/L
As 188.979†	12956.9	137.26	1.06%	[10]	mg/L
B 249.677†	18534.9	254.94	1.38%	[10]	mg/L
Be 313.042†	1284996.8	4247.23	0.33%	[5.0]	mg/L
Na 589.592†	110439.2	118.00	0.11%	[50]	mg/L
Ni 231.604†	11342.6	128.07	1.13%	[10]	mg/L
Pb 220.353†	78214.5	171.55	0.22%	[10]	mg/L
Se 196.026†	9825.0	97.68	0.99%	[10]	mg/L
Sr 421.552†	1430313.2	1724.56	0.12%	[5]	mg/L
Tl 190.801†	21369.2	244.25	1.14%	[10]	mg/L
Zn 206.200†	12306.6	192.15	1.56%	[10]	mg/L

Sequence No.: 4
Sample ID: STD4
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 11/10/2008 11:21:35 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD4

Analyte	Back Pressure	Flow
All	139.0 kPa	0.50 L/min

Mean Data: STD4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2080932.0	6824.71	0.33%	103.0	%
ScR 361.383	149527.0	821.12	0.55%	103.5	%
Mo 202.031†	43320.6	229.01	0.53%	[10]	mg/L
Sb 206.836†	17653.7	39.38	0.22%	[10]	mg/L
Si 288.158†	18396.2	141.40	0.77%	[10]	mg/L
Sn 189.927†	31374.3	163.71	0.52%	[10]	mg/L
Ti 334.903†	213681.4	1669.50	0.78%	[10]	mg/L

Sequence No.: 5
Sample ID: STD5
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/10/2008 11:26:27 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	139.0 kPa	0.50 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1942104.0	2475.24	0.13%	96.14	%
ScR 361.383	143684.2	881.10	0.61%	99.43	%
Al 308.215†	52880.6	190.07	0.36%	[30]	mg/L
Ca 317.933†	328925.6	1495.98	0.45%	[30]	mg/L
Fe 273.955†	149928.3	845.71	0.56%	[100]	mg/L
K 766.490†	120095.8	903.27	0.75%	[100]	mg/L
Mg 279.077†	39710.4	96.80	0.24%	[30]	mg/L
Na 330.237†	2319.4	22.30	0.96%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	167200	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1763	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	1296	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	1853	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	7553	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	257000	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	10960	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	48600	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	54220	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	4320	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	237700	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	1499	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	1201	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	1324	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	35200	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	4332	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	2209	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	23.19	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	1134	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	7821	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	1765	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	982.5	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1840	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	3137	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	286100	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	21370	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	2137	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	125200	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	1231	0.00000	1.000000	

Analysis Begun

Start Time: 11/10/2008 11:59:30 AM
Logged In Analyst: metals
Spectrometer Model: Optima 4300 DV, S/N 077N0060101
Plasma On Time: 11/10/2008 10:13:58 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\1110A.sif
Batch ID:
Results Data Set: PE081110
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 6
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location:
Date Collected: 11/10/2008 11:59:30 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	139.0 kPa	0.50 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2013464.4	12420.70	0.62%	99.68	%
ScR 361.383	143623.1	1861.06	1.30%	99.39	%
Ag 328.068†	4634.4	55.94	1.21%	[0.00]	mg/L
Al 308.215†	-734.1	34.98	4.76%	[0.00]	mg/L
As 188.979†	143.3	5.69	3.97%	[0.00]	mg/L
B 249.677†	-63.1	4.97	7.88%	[0.00]	mg/L
Ba 233.527†	71.6	1.54	2.15%	[0.00]	mg/L
Be 313.042†	-44.0	14.87	33.76%	[0.00]	mg/L
Ca 317.933†	257.3	14.77	5.74%	[0.00]	mg/L
Cd 228.802†	423.7	4.11	0.97%	[0.00]	mg/L
Co 228.616†	-143.5	8.38	5.84%	[0.00]	mg/L
Cr 267.716†	64.0	8.31	12.99%	[0.00]	mg/L
Cu 324.752†	1904.2	40.55	2.13%	[0.00]	mg/L
Fe 273.955†	-21.1	3.01	14.30%	[0.00]	mg/L
K 766.490†	3922.5	27.80	0.71%	[0.00]	mg/L
Mg 279.077†	-588.8	7.41	1.26%	[0.00]	mg/L
Mn 257.610†	163.4	3.46	2.12%	[0.00]	mg/L
Mo 202.031†	-175.7	2.89	1.64%	[0.00]	mg/L
Na 589.592†	-732.4	21.36	2.92%	[0.00]	mg/L
Na 330.237†	276.9	14.96	5.40%	[0.00]	mg/L
Ni 231.604†	42.4	4.15	9.78%	[0.00]	mg/L
Pb 220.353†	138.0	3.05	2.21%	[0.00]	mg/L
Sb 206.836†	-61.1	1.08	1.77%	[0.00]	mg/L
Se 196.026†	-63.4	6.75	10.65%	[0.00]	mg/L
Si 288.158†	-90.6	10.46	11.55%	[0.00]	mg/L
Sn 189.927†	9.8	1.16	11.84%	[0.00]	mg/L
Sr 421.552†	-318.1	13.42	4.22%	[0.00]	mg/L
Ti 334.903†	-190.2	11.10	5.83%	[0.00]	mg/L
Tl 190.801†	-68.0	3.81	5.60%	[0.00]	mg/L
V 292.402†	-757.0	24.27	3.21%	[0.00]	mg/L
Zn 206.200†	-53.2	2.32	4.36%	[0.00]	mg/L

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Analysis Begun

Start Time: 11/10/2008 12:04:06 PM **Plasma On Time: 11/10/2008 10:13:58 AM**
Logged In Analyst: metals **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N0060101 **Autosampler Model: AS-93plus**

Sample Information File: C:\pe\Administrator\Sample Information\1110A.sif
Batch ID:
Results Data Set: PE081110
Results Library: C:\pe\Administrator\Results\Results.mdb

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Sequence No.: 1 **Autosampler Location: 7**
Sample ID: CV **Date Collected: 11/10/2008 12:04:06 PM**
Analyst: BLW **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: 1X **Sample Prep Vol:**

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	139.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2001834.4	99.10	%	0.589				0.59%
ScR 361.383	147639.0	102.2	%	0.80				0.78%
Ag 328.068†	171962.8	1.029	mg/L	0.0098	1.029	mg/L	0.0098	0.95%
Al 308.215†	3522.1	1.961	mg/L	0.0171	1.961	mg/L	0.0171	0.87%
As 188.979†	2631.6	2.019	mg/L	0.0210	2.019	mg/L	0.0210	1.04%
B 249.677†	1814.5	0.9769	mg/L	0.01109	0.9769	mg/L	0.01109	1.14%
Ba 233.527†	7172.2	0.9491	mg/L	0.00950	0.9491	mg/L	0.00950	1.00%
Be 313.042†	254825.9	0.9890	mg/L	0.00249	0.9890	mg/L	0.00249	0.25%
Ca 317.933†	22095.7	2.014	mg/L	0.0162	2.014	mg/L	0.0162	0.80%
Cd 228.802†	48703.3	0.9944	mg/L	0.00917	0.9944	mg/L	0.00917	0.92%
Co 228.616†	52820.0	0.9724	mg/L	0.00832	0.9724	mg/L	0.00832	0.86%
Cr 267.716†	4123.3	0.9540	mg/L	0.00795	0.9540	mg/L	0.00795	0.83%
Cu 324.752†	241976.1	1.018	mg/L	0.0083	1.018	mg/L	0.0083	0.82%
Fe 273.955†	3038.1	2.024	mg/L	0.0192	2.024	mg/L	0.0192	0.95%
K 766.490†	23788.6	19.81	mg/L	0.080	19.81	mg/L	0.080	0.40%
Mg 279.077†	2695.4	2.042	mg/L	0.0165	2.042	mg/L	0.0165	0.81%
Mn 257.610†	33860.7	0.9629	mg/L	0.00267	0.9629	mg/L	0.00267	0.28%
Mo 202.031†	4355.9	1.006	mg/L	0.0137	1.006	mg/L	0.0137	1.37%
Na 589.592†	105950.0	47.97	mg/L	0.032	47.97	mg/L	0.032	0.07%
Na 330.237†	1179.5	50.66	mg/L	0.459	50.66	mg/L	0.459	0.91%
Ni 231.604†	1108.6	0.9776	mg/L	0.00983	0.9776	mg/L	0.00983	1.01%
Pb 220.353†	15591.9	1.994	mg/L	0.0187	1.994	mg/L	0.0187	0.94%
Sb 206.836†	3728.0	2.110	mg/L	0.0241	2.110	mg/L	0.0241	1.14%
Se 196.026†	1956.4	1.992	mg/L	0.0205	1.992	mg/L	0.0205	1.03%
Si 288.158†	3916.3	2.132	mg/L	0.0186	2.132	mg/L	0.0186	0.87%
Sn 189.927†	2918.6	0.9315	mg/L	0.00890	0.9315	mg/L	0.00890	0.96%
Sr 421.552†	292446.5	1.022	mg/L	0.0012	1.022	mg/L	0.0012	0.12%
Ti 334.903†	21495.1	1.005	mg/L	0.0032	1.005	mg/L	0.0032	0.32%
Tl 190.801†	4293.8	1.993	mg/L	0.0173	1.993	mg/L	0.0173	0.87%
V 292.402†	123012.8	0.9955	mg/L	0.00993	0.9955	mg/L	0.00993	1.00%
Zn 206.200†	1241.1	1.008	mg/L	0.0078	1.008	mg/L	0.0078	0.77%

Sequence No.: 2
Sample ID: CB
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 11/10/2008 12:10:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	140.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2028893.6	100.4	%	0.37				0.37%
ScR 361.383	146272.2	101.2	%	0.90				0.89%
Ag 328.068†	70.8	0.00042	mg/L	0.000050	0.00042	mg/L	0.000050	11.87%
Al 308.215†	-6.7	-0.00382	mg/L	0.001719	-0.00382	mg/L	0.001719	45.04%
As 188.979†	2.2	0.00169	mg/L	0.005596	0.00169	mg/L	0.005596	330.59%
B 249.677†	3.7	0.00201	mg/L	0.003661	0.00201	mg/L	0.003661	182.32%
Ba 233.527†	0.2	0.00002	mg/L	0.000784	0.00002	mg/L	0.000784	>999.9%
Be 313.042†	23.7	0.00009	mg/L	0.000044	0.00009	mg/L	0.000044	46.86%
Ca 317.933†	-34.2	-0.00312	mg/L	0.001394	-0.00312	mg/L	0.001394	44.75%
Cd 228.802†	-7.5	-0.00016	mg/L	0.000014	-0.00016	mg/L	0.000014	8.58%
Co 228.616†	3.1	0.00006	mg/L	0.000334	0.00006	mg/L	0.000334	589.58%
Cr 267.716†	-0.9	-0.00021	mg/L	0.000312	-0.00021	mg/L	0.000312	150.52%
Cu 324.752†	21.9	0.00009	mg/L	0.000149	0.00009	mg/L	0.000149	161.91%
Fe 273.955†	4.2	0.00277	mg/L	0.003511	0.00277	mg/L	0.003511	126.69%
K 766.490†	-34.7	-0.02887	mg/L	0.025917	-0.02887	mg/L	0.025917	89.76%
Mg 279.077†	-0.1	-0.00005	mg/L	0.009980	-0.00005	mg/L	0.009980	>999.9%
Mn 257.610†	2.6	0.00008	mg/L	0.000084	0.00008	mg/L	0.000084	111.20%
Mo 202.031†	0.9	0.00021	mg/L	0.001304	0.00021	mg/L	0.001304	619.43%
Na 589.592†	238.9	0.1081	mg/L	0.00400	0.1081	mg/L	0.00400	3.70%
Na 330.237†	-10.8	-0.4657	mg/L	1.13390	-0.4657	mg/L	1.13390	243.47%
Ni 231.604†	3.6	0.00315	mg/L	0.000662	0.00315	mg/L	0.000662	21.05%
Pb 220.353†	2.9	0.00037	mg/L	0.000718	0.00037	mg/L	0.000718	196.44%
Sb 206.836†	5.1	0.00289	mg/L	0.003314	0.00289	mg/L	0.003314	114.80%
Se 196.026†	-1.0	-0.00105	mg/L	0.005931	-0.00105	mg/L	0.005931	566.75%
Si 288.158†	22.7	0.01236	mg/L	0.002929	0.01236	mg/L	0.002929	23.69%
Sn 189.927†	2.4	0.00076	mg/L	0.001510	0.00076	mg/L	0.001510	199.66%
Sr 421.552†	-5.6	-0.00002	mg/L	0.000026	-0.00002	mg/L	0.000026	130.30%
Ti 334.903†	-0.5	-0.00002	mg/L	0.000941	-0.00002	mg/L	0.000941	>999.9%
Tl 190.801†	6.1	0.00283	mg/L	0.004339	0.00283	mg/L	0.004339	153.10%
V 292.402†	-42.4	-0.00034	mg/L	0.000196	-0.00034	mg/L	0.000196	57.89%
Zn 206.200†	-1.7	-0.00137	mg/L	0.000696	-0.00137	mg/L	0.000696	50.74%

Sequence No.: 3
Sample ID: CRI
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 21
Date Collected: 11/10/2008 12:17:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	140.0 kPa	0.50 L/min

Mean Data: CRI

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2029402.0	100.5	%	0.36				0.36%
ScR 361.383	146226.1	101.2	%	0.47				0.47%
Ag 328.068†	559.4	0.00335	mg/L	0.000310	0.00335	mg/L	0.000310	9.26%
Al 308.215†	77.3	0.04366	mg/L	0.023406	0.04366	mg/L	0.023406	53.61%
As 188.979†	70.2	0.05410	mg/L	0.000336	0.05410	mg/L	0.000336	0.62%
B 249.677†	32.6	0.01758	mg/L	0.003224	0.01758	mg/L	0.003224	18.34%
Ba 233.527†	21.2	0.00280	mg/L	0.000728	0.00280	mg/L	0.000728	25.99%
Be 313.042†	277.5	0.00107	mg/L	0.000085	0.00107	mg/L	0.000085	7.96%
Ca 317.933†	523.9	0.04778	mg/L	0.003053	0.04778	mg/L	0.003053	6.39%
Cd 228.802†	100.6	0.00186	mg/L	0.000137	0.00186	mg/L	0.000137	7.34%
Co 228.616†	165.7	0.00305	mg/L	0.000013	0.00305	mg/L	0.000013	0.44%
Cr 267.716†	18.3	0.00424	mg/L	0.001678	0.00424	mg/L	0.001678	39.59%
Cu 324.752†	448.0	0.00189	mg/L	0.000100	0.00189	mg/L	0.000100	5.32%
Fe 273.955†	83.6	0.05578	mg/L	0.002701	0.05578	mg/L	0.002701	4.84%
K 766.490†	674.1	0.5613	mg/L	0.04155	0.5613	mg/L	0.04155	7.40%
Mg 279.077†	91.1	0.06885	mg/L	0.008543	0.06885	mg/L	0.008543	12.41%
Mn 257.610†	39.4	0.00112	mg/L	0.000072	0.00112	mg/L	0.000072	6.42%
Mo 202.031†	24.9	0.00575	mg/L	0.000519	0.00575	mg/L	0.000519	9.02%
Na 589.592†	1327.8	0.6012	mg/L	0.00987	0.6012	mg/L	0.00987	1.64%
Na 330.237†	20.3	0.8721	mg/L	0.80029	0.8721	mg/L	0.80029	91.77%
Ni 231.604†	10.5	0.00928	mg/L	0.002431	0.00928	mg/L	0.002431	26.21%
Pb 220.353†	150.6	0.01927	mg/L	0.000045	0.01927	mg/L	0.000045	0.23%
Sb 206.836†	99.2	0.05622	mg/L	0.002312	0.05622	mg/L	0.002312	4.11%
Se 196.026†	53.4	0.05434	mg/L	0.001906	0.05434	mg/L	0.001906	3.51%
Si 288.158†	141.5	0.07695	mg/L	0.005655	0.07695	mg/L	0.005655	7.35%
Sn 189.927†	26.0	0.00832	mg/L	0.000964	0.00832	mg/L	0.000964	11.59%
Sr 421.552†	328.0	0.00115	mg/L	0.000128	0.00115	mg/L	0.000128	11.18%
Ti 334.903†	120.9	0.00565	mg/L	0.000488	0.00565	mg/L	0.000488	8.64%
Tl 190.801†	112.9	0.05277	mg/L	0.000903	0.05277	mg/L	0.000903	1.71%
V 292.402†	311.1	0.00255	mg/L	0.000140	0.00255	mg/L	0.000140	5.50%
Zn 206.200†	9.4	0.00762	mg/L	0.001634	0.00762	mg/L	0.001634	21.43%

Sequence No.: 4
Sample ID: ICSA
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 22
Date Collected: 11/10/2008 12:23:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	140.0 kPa	0.50 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1930284.6	95.56	%	0.579				0.61%
ScR 361.383	145005.3	100.3	%	0.66				0.66%
Ag 328.068†	-1147.2	0.00104	mg/L	0.000777	0.00104	mg/L	0.000777	74.66%
Al 308.215†	350539.3	198.9	mg/L	1.34	198.9	mg/L	1.34	0.68%
As 188.979†	111.7	0.01392	mg/L	0.006711	0.01392	mg/L	0.006711	48.21%
B 249.677†	-46.0	-0.00279	mg/L	0.007720	-0.00279	mg/L	0.007720	276.66%
Ba 233.527†	73.7	0.00057	mg/L	0.000360	0.00057	mg/L	0.000360	63.69%
Be 313.042†	55.1	0.00018	mg/L	0.000039	0.00018	mg/L	0.000039	22.09%
Ca 317.933†	1082520.1	98.73	mg/L	0.544	98.73	mg/L	0.544	0.55%
Cd 228.802†	55.4	0.00081	mg/L	0.000124	0.00081	mg/L	0.000124	15.34%
Co 228.616†	-15.4	-0.00030	mg/L	0.000072	-0.00030	mg/L	0.000072	23.74%
Cr 267.716†	3.4	-0.00058	mg/L	0.000817	-0.00058	mg/L	0.000817	141.81%
Cu 324.752†	-3733.5	0.00086	mg/L	0.000202	0.00086	mg/L	0.000202	23.64%
Fe 273.955†	295791.4	197.3	mg/L	0.98	197.3	mg/L	0.98	0.50%
K 766.490†	-112.8	-0.09390	mg/L	0.025048	-0.09390	mg/L	0.025048	26.68%
Mg 279.077†	134160.7	101.3	mg/L	0.82	101.3	mg/L	0.82	0.81%
Mn 257.610†	109.2	-0.00071	mg/L	0.000200	-0.00071	mg/L	0.000200	28.14%
Mo 202.031†	-12.0	0.00094	mg/L	0.001436	0.00094	mg/L	0.001436	153.32%
Na 589.592†	299.1	0.1354	mg/L	0.02307	0.1354	mg/L	0.02307	17.04%
Na 330.237†	10.6	0.4671	mg/L	0.76362	0.4671	mg/L	0.76362	163.47%
Ni 231.604†	7.1	-0.00310	mg/L	0.001149	-0.00310	mg/L	0.001149	37.04%
Pb 220.353†	-524.7	-0.02246	mg/L	0.001773	-0.02246	mg/L	0.001773	7.90%
Sb 206.836†	-21.7	0.01684	mg/L	0.000700	0.01684	mg/L	0.000700	4.16%
Se 196.026†	-118.2	-0.03075	mg/L	0.002215	-0.03075	mg/L	0.002215	7.20%
Si 288.158†	72.5	0.05499	mg/L	0.004011	0.05499	mg/L	0.004011	7.29%
Sn 189.927†	-10.9	-0.01034	mg/L	0.001689	-0.01034	mg/L	0.001689	16.34%
Sr 421.552†	635.1	0.00222	mg/L	0.000032	0.00222	mg/L	0.000032	1.44%
Ti 334.903†	157.4	0.00058	mg/L	0.000607	0.00058	mg/L	0.000607	104.94%
Tl 190.801†	-30.4	-0.01426	mg/L	0.003981	-0.01426	mg/L	0.003981	27.91%
V 292.402†	1750.8	-0.00309	mg/L	0.000365	-0.00309	mg/L	0.000365	11.79%
Zn 206.200†	-25.9	-0.00111	mg/L	0.000665	-0.00111	mg/L	0.000665	60.16%

Sequence No.: 5
Sample ID: ICSAB
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 23
Date Collected: 11/10/2008 12:30:38 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	140.0 kPa	0.50 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1925581.6	95.32	%	0.797				0.84%
ScR 361.383	145685.1	100.8	%	0.93				0.92%
Ag 328.068†	178019.0	1.073	mg/L	0.0005	1.073	mg/L	0.0005	0.05%
Al 308.215†	352383.2	199.9	mg/L	0.25	199.9	mg/L	0.25	0.13%
As 188.979†	1463.6	1.052	mg/L	0.0116	1.052	mg/L	0.0116	1.10%
B 249.677†	-41.3	-0.00364	mg/L	0.000719	-0.00364	mg/L	0.000719	19.72%
Ba 233.527†	7269.8	0.9528	mg/L	0.00917	0.9528	mg/L	0.00917	0.96%
Be 313.042†	263403.6	1.022	mg/L	0.0032	1.022	mg/L	0.0032	0.31%
Ca 317.933†	1088096.0	99.24	mg/L	0.271	99.24	mg/L	0.271	0.27%
Cd 228.802†	48007.0	0.9836	mg/L	0.00388	0.9836	mg/L	0.00388	0.39%
Co 228.616†	49597.0	0.9144	mg/L	0.00317	0.9144	mg/L	0.00317	0.35%
Cr 267.716†	4098.5	0.9470	mg/L	0.00571	0.9470	mg/L	0.00571	0.60%
Cu 324.752†	238838.9	1.022	mg/L	0.0013	1.022	mg/L	0.0013	0.12%
Fe 273.955†	296571.8	197.8	mg/L	0.52	197.8	mg/L	0.52	0.26%
K 766.490†	-225.6	-0.1878	mg/L	0.04500	-0.1878	mg/L	0.04500	23.96%
Mg 279.077†	135108.4	102.0	mg/L	0.17	102.0	mg/L	0.17	0.16%
Mn 257.610†	33954.4	0.9613	mg/L	0.00341	0.9613	mg/L	0.00341	0.36%
Mo 202.031†	-14.8	0.00038	mg/L	0.000682	0.00038	mg/L	0.000682	180.87%
Na 589.592†	282.8	0.1280	mg/L	0.01265	0.1280	mg/L	0.01265	9.88%
Na 330.237†	17.0	0.3716	mg/L	0.27524	0.3716	mg/L	0.27524	74.06%
Ni 231.604†	1074.5	0.9378	mg/L	0.01141	0.9378	mg/L	0.01141	1.22%
Pb 220.353†	6954.6	0.9343	mg/L	0.00669	0.9343	mg/L	0.00669	0.72%
Sb 206.836†	1873.0	1.081	mg/L	0.0111	1.081	mg/L	0.0111	1.03%
Se 196.026†	899.6	1.005	mg/L	0.0127	1.005	mg/L	0.0127	1.27%
Si 288.158†	63.9	0.05131	mg/L	0.003664	0.05131	mg/L	0.003664	7.14%
Sn 189.927†	-17.3	-0.01194	mg/L	0.000566	-0.01194	mg/L	0.000566	4.74%
Sr 421.552†	621.3	0.00217	mg/L	0.000145	0.00217	mg/L	0.000145	6.68%
Ti 334.903†	175.3	0.00113	mg/L	0.000464	0.00113	mg/L	0.000464	40.99%
Tl 190.801†	2054.4	0.9491	mg/L	0.00579	0.9491	mg/L	0.00579	0.61%
V 292.402†	126548.4	0.9997	mg/L	0.00086	0.9997	mg/L	0.00086	0.09%
Zn 206.200†	1127.1	0.9355	mg/L	0.00941	0.9355	mg/L	0.00941	1.01%

Sequence No.: 6
Sample ID: CV
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 11/10/2008 12:37:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	140.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1985290.6	98.28	%	0.598				0.61%
ScR 361.383	144651.7	100.1	%	0.51				0.51%
Ag 328.068†	172114.8	1.030	mg/L	0.0032	1.030	mg/L	0.0032	0.31%
Al 308.215†	3567.9	1.987	mg/L	0.0142	1.987	mg/L	0.0142	0.71%
As 188.979†	2618.6	2.009	mg/L	0.0039	2.009	mg/L	0.0039	0.20%
B 249.677†	1809.2	0.9740	mg/L	0.00894	0.9740	mg/L	0.00894	0.92%
Ba 233.527†	7189.0	0.9514	mg/L	0.00811	0.9514	mg/L	0.00811	0.85%
Be 313.042†	252154.0	0.9786	mg/L	0.00906	0.9786	mg/L	0.00906	0.93%
Ca 317.933†	22012.5	2.007	mg/L	0.0174	2.007	mg/L	0.0174	0.87%
Cd 228.802†	48408.3	0.9884	mg/L	0.00352	0.9884	mg/L	0.00352	0.36%
Co 228.616†	52790.6	0.9718	mg/L	0.00337	0.9718	mg/L	0.00337	0.35%
Cr 267.716†	4124.6	0.9543	mg/L	0.00919	0.9543	mg/L	0.00919	0.96%
Cu 324.752†	241981.5	1.018	mg/L	0.0037	1.018	mg/L	0.0037	0.36%
Fe 273.955†	3047.3	2.031	mg/L	0.0196	2.031	mg/L	0.0196	0.96%
K 766.490†	24548.4	20.44	mg/L	0.163	20.44	mg/L	0.163	0.80%
Mg 279.077†	2691.0	2.039	mg/L	0.0258	2.039	mg/L	0.0258	1.27%
Mn 257.610†	34029.4	0.9677	mg/L	0.00157	0.9677	mg/L	0.00157	0.16%
Mo 202.031†	4347.5	1.004	mg/L	0.0070	1.004	mg/L	0.0070	0.70%
Na 589.592†	107770.6	48.79	mg/L	0.481	48.79	mg/L	0.481	0.99%
Na 330.237†	1186.3	50.95	mg/L	0.537	50.95	mg/L	0.537	1.05%
Ni 231.604†	1101.7	0.9715	mg/L	0.01037	0.9715	mg/L	0.01037	1.07%
Pb 220.353†	15539.2	1.988	mg/L	0.0071	1.988	mg/L	0.0071	0.36%
Sb 206.836†	3727.8	2.110	mg/L	0.0074	2.110	mg/L	0.0074	0.35%
Se 196.026†	1955.5	1.991	mg/L	0.0052	1.991	mg/L	0.0052	0.26%
Si 288.158†	3943.9	2.147	mg/L	0.0191	2.147	mg/L	0.0191	0.89%
Sn 189.927†	2903.0	0.9265	mg/L	0.00252	0.9265	mg/L	0.00252	0.27%
Sr 421.552†	296353.1	1.036	mg/L	0.0079	1.036	mg/L	0.0079	0.76%
Ti 334.903†	21544.0	1.007	mg/L	0.0091	1.007	mg/L	0.0091	0.90%
Tl 190.801†	4293.9	1.993	mg/L	0.0086	1.993	mg/L	0.0086	0.43%
V 292.402†	122697.5	0.9930	mg/L	0.00485	0.9930	mg/L	0.00485	0.49%
Zn 206.200†	1239.4	1.007	mg/L	0.0093	1.007	mg/L	0.0093	0.92%

Sequence No.: 7
Sample ID: CB
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 11/10/2008 12:44:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	140.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1988774.1	98.45	%	0.852				0.87%
ScR 361.383	144108.7	99.72	%	0.412				0.41%
Ag 328.068†	148.1	0.00089	mg/L	0.000469	0.00089	mg/L	0.000469	52.97%
Al 308.215†	-19.2	-0.01086	mg/L	0.011510	-0.01086	mg/L	0.011510	106.03%
As 188.979†	0.1	0.00008	mg/L	0.004196	0.00008	mg/L	0.004196	>999.9%
B 249.677†	3.2	0.00170	mg/L	0.001421	0.00170	mg/L	0.001421	83.34%
Ba 233.527†	4.3	0.00057	mg/L	0.000315	0.00057	mg/L	0.000315	55.00%
Be 313.042†	5.2	0.00002	mg/L	0.000036	0.00002	mg/L	0.000036	178.47%
Ca 317.933†	1.5	0.00014	mg/L	0.000786	0.00014	mg/L	0.000786	572.52%
Cd 228.802†	2.0	0.00004	mg/L	0.000032	0.00004	mg/L	0.000032	79.17%
Co 228.616†	3.3	0.00006	mg/L	0.000147	0.00006	mg/L	0.000147	249.48%
Cr 267.716†	1.0	0.00023	mg/L	0.000452	0.00023	mg/L	0.000452	196.70%
Cu 324.752†	19.0	0.00008	mg/L	0.000033	0.00008	mg/L	0.000033	40.57%
Fe 273.955†	3.4	0.00226	mg/L	0.001559	0.00226	mg/L	0.001559	68.87%
K 766.490†	32.0	0.02661	mg/L	0.035026	0.02661	mg/L	0.035026	131.64%
Mg 279.077†	2.5	0.00189	mg/L	0.004173	0.00189	mg/L	0.004173	221.18%
Mn 257.610†	6.0	0.00017	mg/L	0.000161	0.00017	mg/L	0.000161	95.18%
Mo 202.031†	-2.3	-0.00053	mg/L	0.000801	-0.00053	mg/L	0.000801	151.84%
Na 589.592†	222.2	0.1006	mg/L	0.01252	0.1006	mg/L	0.01252	12.45%
Na 330.237†	25.4	1.094	mg/L	0.7562	1.094	mg/L	0.7562	69.12%
Ni 231.604†	-1.1	-0.00099	mg/L	0.003552	-0.00099	mg/L	0.003552	359.18%
Pb 220.353†	-13.7	-0.00175	mg/L	0.001075	-0.00175	mg/L	0.001075	61.33%
Sb 206.836†	0.0	0.00001	mg/L	0.001354	0.00001	mg/L	0.001354	>999.9%
Se 196.026†	0.7	0.00069	mg/L	0.003587	0.00069	mg/L	0.003587	522.29%
Si 288.158†	22.9	0.01244	mg/L	0.003738	0.01244	mg/L	0.003738	30.04%
Sn 189.927†	3.7	0.00118	mg/L	0.000454	0.00118	mg/L	0.000454	38.32%
Sr 421.552†	27.3	0.00010	mg/L	0.000164	0.00010	mg/L	0.000164	171.55%
Ti 334.903†	11.2	0.00052	mg/L	0.000785	0.00052	mg/L	0.000785	149.86%
Tl 190.801†	4.6	0.00216	mg/L	0.001976	0.00216	mg/L	0.001976	91.62%
V 292.402†	-5.5	-0.00005	mg/L	0.000589	-0.00005	mg/L	0.000589	>999.9%
Zn 206.200†	0.1	0.00005	mg/L	0.002338	0.00005	mg/L	0.002338	>999.9%

Sequence No.: 8
Sample ID: DI CHECK
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 24
Date Collected: 11/10/2008 12:51:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: DI CHECK

Analyte	Back Pressure	Flow
All	140.0 kPa	0.50 L/min

Mean Data: DI CHECK

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2038048.9	100.9	%	0.82				0.81%
ScR 361.383	147774.5	102.3	%	0.88				0.86%
Ag 328.068†	-119.4	-0.00071	mg/L	0.000056	-0.00071	mg/L	0.000056	7.89%
Al 308.215†	-9.7	-0.00554	mg/L	0.003232	-0.00554	mg/L	0.003232	58.30%
As 188.979†	-5.2	-0.00404	mg/L	0.002828	-0.00404	mg/L	0.002828	69.93%
B 249.677†	-8.9	-0.00480	mg/L	0.002635	-0.00480	mg/L	0.002635	54.96%
Ba 233.527†	-3.0	-0.00040	mg/L	0.000370	-0.00040	mg/L	0.000370	93.21%
Be 313.042†	28.1	0.00011	mg/L	0.000122	0.00011	mg/L	0.000122	112.16%
Ca 317.933†	-65.2	-0.00595	mg/L	0.001964	-0.00595	mg/L	0.001964	33.02%
Cd 228.802†	-16.7	-0.00033	mg/L	0.000097	-0.00033	mg/L	0.000097	29.56%
Co 228.616†	8.6	0.00016	mg/L	0.000060	0.00016	mg/L	0.000060	38.15%
Cr 267.716†	-4.6	-0.00108	mg/L	0.000789	-0.00108	mg/L	0.000789	73.40%
Cu 324.752†	-100.5	-0.00042	mg/L	0.000044	-0.00042	mg/L	0.000044	10.35%
Fe 273.955†	-10.8	-0.00721	mg/L	0.002463	-0.00721	mg/L	0.002463	34.16%
K 766.490†	-140.5	-0.1170	mg/L	0.01606	-0.1170	mg/L	0.01606	13.73%
Mg 279.077†	19.0	0.01433	mg/L	0.001879	0.01433	mg/L	0.001879	13.11%
Mn 257.610†	-28.1	-0.00080	mg/L	0.000114	-0.00080	mg/L	0.000114	14.28%
Mo 202.031†	9.3	0.00216	mg/L	0.000879	0.00216	mg/L	0.000879	40.77%
Na 589.592†	287.6	0.1302	mg/L	0.00563	0.1302	mg/L	0.00563	4.33%
Na 330.237†	5.0	0.2178	mg/L	0.57016	0.2178	mg/L	0.57016	261.78%
Ni 231.604†	-6.9	-0.00607	mg/L	0.005282	-0.00607	mg/L	0.005282	86.97%
Pb 220.353†	-15.0	-0.00192	mg/L	0.000572	-0.00192	mg/L	0.000572	29.76%
Sb 206.836†	9.6	0.00546	mg/L	0.002669	0.00546	mg/L	0.002669	48.91%
Se 196.026†	6.9	0.00702	mg/L	0.003147	0.00702	mg/L	0.003147	44.83%
Si 288.158†	17.8	0.00969	mg/L	0.005352	0.00969	mg/L	0.005352	55.22%
Sn 189.927†	-0.1	-0.00004	mg/L	0.000377	-0.00004	mg/L	0.000377	910.18%
Sr 421.552†	14.4	0.00005	mg/L	0.000120	0.00005	mg/L	0.000120	238.37%
Ti 334.903†	26.1	0.00122	mg/L	0.001752	0.00122	mg/L	0.001752	143.49%
Tl 190.801†	5.0	0.00234	mg/L	0.001088	0.00234	mg/L	0.001088	46.47%
V 292.402†	8.2	0.00007	mg/L	0.000132	0.00007	mg/L	0.000132	176.72%
Zn 206.200†	-0.4	-0.00035	mg/L	0.000787	-0.00035	mg/L	0.000787	225.74%

Sequence No.: 9
Sample ID: NV61 MB1 SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 25
Date Collected: 11/10/2008 12:57:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: NV61 MB1 SWC

Analyte	Back Pressure	Flow
All	140.0 kPa	0.50 L/min

Mean Data: NV61 MB1 SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2047561.0	101.4	%	0.43				0.42%
ScR 361.383	147402.9	102.0	%	0.51				0.50%
Ag 328.068†	28.8	0.00017	mg/L	0.000420	0.00034	mg/L	0.000840	243.80%
Al 308.215†	12.7	0.00719	mg/L	0.006509	0.01438	mg/L	0.013019	90.54%
As 188.979†	4.2	0.00327	mg/L	0.005463	0.00654	mg/L	0.010925	167.06%
B 249.677†	-7.0	-0.00380	mg/L	0.003551	-0.00760	mg/L	0.007102	93.49%
Ba 233.527†	1.6	0.00021	mg/L	0.001031	0.00042	mg/L	0.002063	489.85%
Be 313.042†	-16.9	-0.00007	mg/L	0.000069	-0.00013	mg/L	0.000139	105.82%
Ca 317.933†	145.8	0.01329	mg/L	0.003346	0.02659	mg/L	0.006692	25.17%
Cd 228.802†	-4.6	-0.00011	mg/L	0.000028	-0.00022	mg/L	0.000057	26.40%
Co 228.616†	-1.1	-0.00002	mg/L	0.000032	-0.00004	mg/L	0.000065	154.29%
Cr 267.716†	-0.3	-0.00008	mg/L	0.002353	-0.00016	mg/L	0.004705	>999.9%
Cu 324.752†	26.1	0.00011	mg/L	0.000244	0.00022	mg/L	0.000488	222.15%
Fe 273.955†	8.0	0.00535	mg/L	0.003902	0.01070	mg/L	0.007804	72.91%
K 766.490†	16.6	0.01384	mg/L	0.015887	0.02767	mg/L	0.031775	114.82%
Mg 279.077†	14.1	0.01066	mg/L	0.008144	0.02133	mg/L	0.016289	76.37%
Mn 257.610†	-4.1	-0.00012	mg/L	0.000118	-0.00024	mg/L	0.000236	98.80%
Mo 202.031†	4.3	0.00098	mg/L	0.000499	0.00196	mg/L	0.000999	50.83%
Na 589.592†	168.9	0.07648	mg/L	0.019060	0.1530	mg/L	0.03812	24.92%
Na 330.237†	17.7	0.7636	mg/L	0.23014	1.527	mg/L	0.4603	30.14%
Ni 231.604†	-3.7	-0.00330	mg/L	0.003085	-0.00661	mg/L	0.006170	93.36%
Pb 220.353†	-19.3	-0.00247	mg/L	0.000398	-0.00493	mg/L	0.000796	16.14%
Sb 206.836†	2.4	0.00137	mg/L	0.000348	0.00274	mg/L	0.000697	25.44%
Se 196.026†	-2.1	-0.00210	mg/L	0.005273	-0.00420	mg/L	0.010546	251.36%
Si 288.158†	79.6	0.04327	mg/L	0.008799	0.08654	mg/L	0.017597	20.33%
Sn 189.927†	0.2	0.00008	mg/L	0.001227	0.00015	mg/L	0.002454	>999.9%
Sr 421.552†	-19.4	-0.00007	mg/L	0.000076	-0.00014	mg/L	0.000152	111.79%
Ti 334.903†	12.8	0.00060	mg/L	0.001834	0.00120	mg/L	0.003667	305.86%
Tl 190.801†	-1.1	-0.00053	mg/L	0.002383	-0.00106	mg/L	0.004766	450.37%
V 292.402†	-9.2	-0.00007	mg/L	0.000341	-0.00014	mg/L	0.000682	503.71%
Zn 206.200†	2.5	0.00205	mg/L	0.001489	0.00410	mg/L	0.002979	72.70%

Sequence No.: 10
Sample ID: NV43 MB1 DMN
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 26
Date Collected: 11/10/2008 1:04:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: NV43 MB1 DMN

Analyte	Back Pressure	Flow
All	140.0 kPa	0.50 L/min

Mean Data: NV43 MB1 DMN

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2102962.1	104.1	%	0.12				0.12%
ScR 361.383	150631.4	104.2	%	0.42				0.40%
Ag 328.068†	-34.7	-0.00021	mg/L	0.000314	-0.00021	mg/L	0.000314	151.39%
Al 308.215†	27.7	0.01569	mg/L	0.006807	0.01569	mg/L	0.006807	43.39%
As 188.979†	0.4	0.00030	mg/L	0.000784	0.00030	mg/L	0.000784	260.19%
B 249.677†	1.3	0.00068	mg/L	0.001897	0.00068	mg/L	0.001897	278.47%
Ba 233.527†	2.9	0.00039	mg/L	0.000863	0.00039	mg/L	0.000863	221.42%
Be 313.042†	0.2	0.00000	mg/L	0.000023	0.00000	mg/L	0.000023	>999.9%
Ca 317.933†	-16.7	-0.00152	mg/L	0.000734	-0.00152	mg/L	0.000734	48.22%
Cd 228.802†	-20.2	-0.00042	mg/L	0.000081	-0.00042	mg/L	0.000081	19.43%
Co 228.616†	9.7	0.00018	mg/L	0.000060	0.00018	mg/L	0.000060	33.71%
Cr 267.716†	-3.5	-0.00081	mg/L	0.000550	-0.00081	mg/L	0.000550	68.30%
Cu 324.752†	-116.1	-0.00049	mg/L	0.000056	-0.00049	mg/L	0.000056	11.35%
Fe 273.955†	-10.9	-0.00725	mg/L	0.003225	-0.00725	mg/L	0.003225	44.50%
K 766.490†	-101.4	-0.08440	mg/L	0.024734	-0.08440	mg/L	0.024734	29.31%
Mg 279.077†	15.4	0.01167	mg/L	0.007473	0.01167	mg/L	0.007473	64.04%
Mn 257.610†	-25.5	-0.00073	mg/L	0.000178	-0.00073	mg/L	0.000178	24.47%
Mo 202.031†	6.4	0.00148	mg/L	0.001332	0.00148	mg/L	0.001332	89.82%
Na 589.592†	259.6	0.1175	mg/L	0.01516	0.1175	mg/L	0.01516	12.90%
Na 330.237†	11.7	0.5034	mg/L	0.50397	0.5034	mg/L	0.50397	100.12%
Ni 231.604†	-6.3	-0.00558	mg/L	0.001842	-0.00558	mg/L	0.001842	33.04%
Pb 220.353†	-24.3	-0.00310	mg/L	0.000737	-0.00310	mg/L	0.000737	23.80%
Sb 206.836†	8.0	0.00454	mg/L	0.001845	0.00454	mg/L	0.001845	40.66%
Se 196.026†	6.9	0.00699	mg/L	0.002930	0.00699	mg/L	0.002930	41.90%
Si 288.158†	46.9	0.02550	mg/L	0.000140	0.02550	mg/L	0.000140	0.55%
Sn 189.927†	-0.3	-0.00010	mg/L	0.000221	-0.00010	mg/L	0.000221	222.83%
Sr 421.552†	12.3	0.00004	mg/L	0.000116	0.00004	mg/L	0.000116	268.65%
Ti 334.903†	18.6	0.00087	mg/L	0.001955	0.00087	mg/L	0.001955	225.12%
Tl 190.801†	4.2	0.00198	mg/L	0.001673	0.00198	mg/L	0.001673	84.68%
V 292.402†	-10.5	-0.00008	mg/L	0.000175	-0.00008	mg/L	0.000175	224.68%
Zn 206.200†	1.3	0.00107	mg/L	0.000837	0.00107	mg/L	0.000837	78.33%

Sequence No.: 11
Sample ID: QC21
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 27
Date Collected: 11/10/2008 1:11:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: QC21

Analyte	Back Pressure	Flow
All	139.0 kPa	0.50 L/min

Mean Data: QC21

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2043731.1	101.2	%	0.20				0.19%
ScR 361.383	150849.6	104.4	%	0.43				0.42%
Ag 328.068†	109.9	0.00082	mg/L	0.000293	0.00082	mg/L	0.000293	35.60%
Al 308.215†	135.0	0.00231	mg/L	0.006225	0.00231	mg/L	0.006225	269.13%
As 188.979†	2608.1	1.990	mg/L	0.0077	1.990	mg/L	0.0077	0.39%
B 249.677†	5.0	-0.00178	mg/L	0.002170	-0.00178	mg/L	0.002170	121.95%
Ba 233.527†	0.7	-0.00075	mg/L	0.000962	-0.00075	mg/L	0.000962	128.55%
Be 313.042†	501783.5	1.947	mg/L	0.0091	1.947	mg/L	0.0091	0.47%
Ca 317.933†	22011.0	2.005	mg/L	0.0030	2.005	mg/L	0.0030	0.15%
Cd 228.802†	93556.7	1.918	mg/L	0.0170	1.918	mg/L	0.0170	0.89%
Co 228.616†	106565.8	1.962	mg/L	0.0170	1.962	mg/L	0.0170	0.87%
Cr 267.716†	8306.7	1.922	mg/L	0.0059	1.922	mg/L	0.0059	0.30%
Cu 324.752†	469731.7	1.976	mg/L	0.0023	1.976	mg/L	0.0023	0.12%
Fe 273.955†	3005.7	2.001	mg/L	0.0074	2.001	mg/L	0.0074	0.37%
K 766.490†	-222.4	-0.1852	mg/L	0.05165	-0.1852	mg/L	0.05165	27.89%
Mg 279.077†	2716.6	2.065	mg/L	0.0082	2.065	mg/L	0.0082	0.40%
Mn 257.610†	69594.3	1.978	mg/L	0.0059	1.978	mg/L	0.0059	0.30%
Mo 202.031†	8636.1	1.994	mg/L	0.0141	1.994	mg/L	0.0141	0.71%
Na 589.592†	203.0	0.09189	mg/L	0.009481	0.09189	mg/L	0.009481	10.32%
Na 330.237†	10.1	0.07625	mg/L	0.387189	0.07625	mg/L	0.387189	507.76%
Ni 231.604†	2240.7	1.976	mg/L	0.0072	1.976	mg/L	0.0072	0.37%
Pb 220.353†	15931.3	2.038	mg/L	0.0251	2.038	mg/L	0.0251	1.23%
Sb 206.836†	3759.6	2.115	mg/L	0.0117	2.115	mg/L	0.0117	0.55%
Se 196.026†	1956.0	1.991	mg/L	0.0035	1.991	mg/L	0.0035	0.18%
Si 288.158†	75.9	0.04738	mg/L	0.000435	0.04738	mg/L	0.000435	0.92%
Sn 189.927†	-5.2	-0.00014	mg/L	0.001374	-0.00014	mg/L	0.001374	>999.9%
Sr 421.552†	563123.3	1.969	mg/L	0.0105	1.969	mg/L	0.0105	0.53%
Ti 334.903†	42440.4	1.984	mg/L	0.0111	1.984	mg/L	0.0111	0.56%
Tl 190.801†	4669.9	2.151	mg/L	0.0078	2.151	mg/L	0.0078	0.36%
V 292.402†	245476.3	1.987	mg/L	0.0206	1.987	mg/L	0.0206	1.04%
Zn 206.200†	2358.8	1.915	mg/L	0.0013	1.915	mg/L	0.0013	0.07%

Sequence No.: 12
Sample ID: QC7M
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 28
Date Collected: 11/10/2008 1:17:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: QC7M

Analyte	Back Pressure	Flow
All	140.0 kPa	0.50 L/min

Mean Data: QC7M

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2043707.2	101.2	%	0.77				0.76%
ScR 361.383	149006.9	103.1	%	1.30				1.26%
Ag 328.068†	173384.9	1.037	mg/L	0.0040	1.037	mg/L	0.0040	0.39%
Al 308.215†	3560.9	2.020	mg/L	0.0074	2.020	mg/L	0.0074	0.37%
As 188.979†	0.6	0.00002	mg/L	0.004312	0.00002	mg/L	0.004312	>999.9%
B 249.677†	3714.6	2.004	mg/L	0.0073	2.004	mg/L	0.0073	0.36%
Ba 233.527†	14419.1	1.909	mg/L	0.0183	1.909	mg/L	0.0183	0.96%
Be 313.042†	12.1	0.00005	mg/L	0.000070	0.00005	mg/L	0.000070	148.18%
Ca 317.933†	6.9	0.00063	mg/L	0.001088	0.00063	mg/L	0.001088	172.96%
Cd 228.802†	-6.4	-0.00013	mg/L	0.000206	-0.00013	mg/L	0.000206	154.68%
Co 228.616†	26.9	0.00005	mg/L	0.000069	0.00005	mg/L	0.000069	136.26%
Cr 267.716†	3.4	0.00080	mg/L	0.000482	0.00080	mg/L	0.000482	60.58%
Cu 324.752†	37.6	0.00016	mg/L	0.000200	0.00016	mg/L	0.000200	127.17%
Fe 273.955†	0.1	0.00008	mg/L	0.002672	0.00008	mg/L	0.002672	>999.9%
K 766.490†	24981.4	20.80	mg/L	0.298	20.80	mg/L	0.298	1.43%
Mg 279.077†	9.0	0.00680	mg/L	0.012304	0.00680	mg/L	0.012304	181.04%
Mn 257.610†	-2.0	-0.00008	mg/L	0.000052	-0.00008	mg/L	0.000052	65.97%
Mo 202.031†	8.8	0.00198	mg/L	0.000711	0.00198	mg/L	0.000711	35.86%
Na 589.592†	4601.7	2.083	mg/L	0.0188	2.083	mg/L	0.0188	0.90%
Na 330.237†	53.1	2.292	mg/L	0.7863	2.292	mg/L	0.7863	34.31%
Ni 231.604†	-1.6	-0.00238	mg/L	0.005827	-0.00238	mg/L	0.005827	244.99%
Pb 220.353†	-20.1	-0.00197	mg/L	0.000860	-0.00197	mg/L	0.000860	43.69%
Sb 206.836†	1.6	0.00118	mg/L	0.003420	0.00118	mg/L	0.003420	290.71%
Se 196.026†	1.7	0.00198	mg/L	0.003466	0.00198	mg/L	0.003466	175.19%
Si 288.158†	3999.8	2.174	mg/L	0.0125	2.174	mg/L	0.0125	0.57%
Sn 189.927†	0.2	0.00006	mg/L	0.000509	0.00006	mg/L	0.000509	793.77%
Sr 421.552†	47.0	0.00016	mg/L	0.000131	0.00016	mg/L	0.000131	79.68%
Ti 334.903†	14.1	0.00066	mg/L	0.001541	0.00066	mg/L	0.001541	233.60%
Tl 190.801†	-4.0	-0.00017	mg/L	0.001357	-0.00017	mg/L	0.001357	806.93%
V 292.402†	-6.1	-0.00003	mg/L	0.000151	-0.00003	mg/L	0.000151	531.98%
Zn 206.200†	-1.1	-0.00079	mg/L	0.002507	-0.00079	mg/L	0.002507	317.44%

Sequence No.: 13
Sample ID: NV43 ADUP DMN
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 29
Date Collected: 11/10/2008 1:24:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: NV43 ADUP DMN

Analyte	Back Pressure	Flow
All	140.0 kPa	0.50 L/min

Mean Data: NV43 ADUP DMN

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2105773.1	104.2	%	0.49				0.47%
ScR 361.383	153599.5	106.3	%	1.05				0.99%
Ag 328.068†	-13.3	-0.00004	mg/L	0.000302	-0.00004	mg/L	0.000302	857.22%
Al 308.215†	1208.2	0.6853	mg/L	0.00667	0.6853	mg/L	0.00667	0.97%
As 188.979†	-3.8	-0.00347	mg/L	0.004673	-0.00347	mg/L	0.004673	134.79%
B 249.677†	175.9	0.09500	mg/L	0.004321	0.09500	mg/L	0.004321	4.55%
Ba 233.527†	138.2	0.01824	mg/L	0.000271	0.01824	mg/L	0.000271	1.49%
Be 313.042†	37.2	0.00013	mg/L	0.000080	0.00013	mg/L	0.000080	60.54%
Ca 317.933†	14206.7	1.296	mg/L	0.0120	1.296	mg/L	0.0120	0.92%
Cd 228.802†	-13.6	-0.00027	mg/L	0.000130	-0.00027	mg/L	0.000130	48.49%
Co 228.616†	37.7	0.00064	mg/L	0.000171	0.00064	mg/L	0.000171	26.84%
Cr 267.716†	1.3	0.00028	mg/L	0.000301	0.00028	mg/L	0.000301	106.49%
Cu 324.752†	1150.1	0.00493	mg/L	0.000143	0.00493	mg/L	0.000143	2.91%
Fe 273.955†	1694.5	1.130	mg/L	0.0252	1.130	mg/L	0.0252	2.23%
K 766.490†	583.3	0.4857	mg/L	0.01316	0.4857	mg/L	0.01316	2.71%
Mg 279.077†	740.0	0.5586	mg/L	0.00944	0.5586	mg/L	0.00944	1.69%
Mn 257.610†	2634.9	0.07484	mg/L	0.000776	0.07484	mg/L	0.000776	1.04%
Mo 202.031†	9.8	0.00224	mg/L	0.000749	0.00224	mg/L	0.000749	33.48%
Na 589.592†	4344.9	1.967	mg/L	0.0225	1.967	mg/L	0.0225	1.14%
Na 330.237†	39.1	1.688	mg/L	0.9413	1.688	mg/L	0.9413	55.76%
Ni 231.604†	-0.1	-0.00017	mg/L	0.004925	-0.00017	mg/L	0.004925	>999.9%
Pb 220.353†	3.0	0.00050	mg/L	0.000302	0.00050	mg/L	0.000302	60.57%
Sb 206.836†	5.2	0.00314	mg/L	0.001949	0.00314	mg/L	0.001949	62.00%
Se 196.026†	7.2	0.00788	mg/L	0.001964	0.00788	mg/L	0.001964	24.93%
Si 288.158†	12019.9	6.534	mg/L	0.0424	6.534	mg/L	0.0424	0.65%
Sn 189.927†	-5.0	-0.00161	mg/L	0.000655	-0.00161	mg/L	0.000655	40.67%
Sr 421.552†	2401.0	0.00839	mg/L	0.000131	0.00839	mg/L	0.000131	1.56%
Ti 334.903†	613.5	0.02862	mg/L	0.001749	0.02862	mg/L	0.001749	6.11%
Tl 190.801†	1.8	0.00065	mg/L	0.003659	0.00065	mg/L	0.003659	562.90%
V 292.402†	557.4	0.00436	mg/L	0.000226	0.00436	mg/L	0.000226	5.18%
Zn 206.200†	16.7	0.01368	mg/L	0.002726	0.01368	mg/L	0.002726	19.94%

Sequence No.: 14
Sample ID: NV43 A DMN
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 30
Date Collected: 11/10/2008 1:31:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: NV43 A DMN

Analyte	Back Pressure	Flow
All	140.0 kPa	0.50 L/min

Mean Data: NV43 A DMN

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2134380.8	105.7	%	0.73				0.69%
ScR 361.383	154138.0	106.7	%	0.65				0.61%
Ag 328.068†	-117.6	-0.00066	mg/L	0.000297	-0.00066	mg/L	0.000297	45.08%
Al 308.215†	1236.0	0.7010	mg/L	0.01777	0.7010	mg/L	0.01777	2.53%
As 188.979†	-6.9	-0.00582	mg/L	0.005006	-0.00582	mg/L	0.005006	85.97%
B 249.677†	163.1	0.08814	mg/L	0.000788	0.08814	mg/L	0.000788	0.89%
Ba 233.527†	137.7	0.01818	mg/L	0.000310	0.01818	mg/L	0.000310	1.70%
Be 313.042†	24.6	0.00008	mg/L	0.000037	0.00008	mg/L	0.000037	43.54%
Ca 317.933†	14110.5	1.287	mg/L	0.0198	1.287	mg/L	0.0198	1.53%
Cd 228.802†	-18.2	-0.00035	mg/L	0.000048	-0.00035	mg/L	0.000048	13.57%
Co 228.616†	42.7	0.00073	mg/L	0.000117	0.00073	mg/L	0.000117	16.05%
Cr 267.716†	4.6	0.00105	mg/L	0.001355	0.00105	mg/L	0.001355	129.30%
Cu 324.752†	1025.8	0.00441	mg/L	0.000070	0.00441	mg/L	0.000070	1.58%
Fe 273.955†	1705.3	1.137	mg/L	0.0205	1.137	mg/L	0.0205	1.81%
K 766.490†	632.1	0.5263	mg/L	0.06502	0.5263	mg/L	0.06502	12.35%
Mg 279.077†	737.9	0.5571	mg/L	0.00661	0.5571	mg/L	0.00661	1.19%
Mn 257.610†	2627.7	0.07464	mg/L	0.000708	0.07464	mg/L	0.000708	0.95%
Mo 202.031†	14.5	0.00333	mg/L	0.001820	0.00333	mg/L	0.001820	54.64%
Na 589.592†	4272.2	1.934	mg/L	0.0255	1.934	mg/L	0.0255	1.32%
Na 330.237†	17.2	0.7421	mg/L	0.86490	0.7421	mg/L	0.86490	116.54%
Ni 231.604†	-1.7	-0.00155	mg/L	0.004289	-0.00155	mg/L	0.004289	277.61%
Pb 220.353†	-12.2	-0.00143	mg/L	0.000955	-0.00143	mg/L	0.000955	66.58%
Sb 206.836†	8.5	0.00499	mg/L	0.001101	0.00499	mg/L	0.001101	22.05%
Se 196.026†	5.5	0.00619	mg/L	0.004828	0.00619	mg/L	0.004828	78.06%
Si 288.158†	12062.4	6.557	mg/L	0.0325	6.557	mg/L	0.0325	0.50%
Sn 189.927†	-2.8	-0.00091	mg/L	0.001012	-0.00091	mg/L	0.001012	111.06%
Sr 421.552†	2352.3	0.00822	mg/L	0.000015	0.00822	mg/L	0.000015	0.18%
Ti 334.903†	606.1	0.02827	mg/L	0.001158	0.02827	mg/L	0.001158	4.10%
Tl 190.801†	1.6	0.00055	mg/L	0.001491	0.00055	mg/L	0.001491	270.15%
V 292.402†	544.7	0.00427	mg/L	0.000315	0.00427	mg/L	0.000315	7.38%
Zn 206.200†	16.2	0.01330	mg/L	0.002020	0.01330	mg/L	0.002020	15.18%

Sequence No.: 15
Sample ID: NV43 ASPK DMN
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 31
Date Collected: 11/10/2008 1:37:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: NV43 ASPK DMN

Analyte	Back Pressure	Flow
All	140.0 kPa	0.50 L/min

Mean Data: NV43 ASPK DMN

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2109627.9	104.4	%	0.93				0.89%
ScR 361.383	154781.3	107.1	%	1.49				1.40%
Ag 328.068†	86414.3	0.5170	mg/L	0.00780	0.5170	mg/L	0.00780	1.51%
Al 308.215†	4837.8	2.737	mg/L	0.0487	2.737	mg/L	0.0487	1.78%
As 188.979†	2746.4	2.115	mg/L	0.0314	2.115	mg/L	0.0314	1.49%
B 249.677†	157.8	0.08365	mg/L	0.001435	0.08365	mg/L	0.001435	1.72%
Ba 233.527†	14776.5	1.956	mg/L	0.0165	1.956	mg/L	0.0165	0.84%
Be 313.042†	130492.7	0.5064	mg/L	0.00435	0.5064	mg/L	0.00435	0.86%
Ca 317.933†	124271.7	11.33	mg/L	0.100	11.33	mg/L	0.100	0.88%
Cd 228.802†	25300.7	0.5124	mg/L	0.00918	0.5124	mg/L	0.00918	1.79%
Co 228.616†	26637.5	0.4907	mg/L	0.00911	0.4907	mg/L	0.00911	1.86%
Cr 267.716†	2097.6	0.4850	mg/L	0.01112	0.4850	mg/L	0.01112	2.29%
Cu 324.752†	117066.4	0.4930	mg/L	0.00768	0.4930	mg/L	0.00768	1.56%
Fe 273.955†	4705.8	3.138	mg/L	0.0807	3.138	mg/L	0.0807	2.57%
K 766.490†	13042.5	10.86	mg/L	0.163	10.86	mg/L	0.163	1.50%
Mg 279.077†	14627.2	11.05	mg/L	0.098	11.05	mg/L	0.098	0.89%
Mn 257.610†	20051.3	0.5704	mg/L	0.00579	0.5704	mg/L	0.00579	1.02%
Mo 202.031†	28.3	0.00590	mg/L	0.000207	0.00590	mg/L	0.000207	3.50%
Na 589.592†	26071.3	11.80	mg/L	0.125	11.80	mg/L	0.125	1.06%
Na 330.237†	295.0	12.52	mg/L	1.665	12.52	mg/L	1.665	13.30%
Ni 231.604†	559.0	0.4908	mg/L	0.01025	0.4908	mg/L	0.01025	2.09%
Pb 220.353†	16153.1	2.066	mg/L	0.0426	2.066	mg/L	0.0426	2.06%
Sb 206.836†	10.2	0.00123	mg/L	0.000217	0.00123	mg/L	0.000217	17.60%
Se 196.026†	2198.5	2.241	mg/L	0.0310	2.241	mg/L	0.0310	1.39%
Si 288.158†	12142.7	6.603	mg/L	0.0600	6.603	mg/L	0.0600	0.91%
Sn 189.927†	-10.0	-0.00289	mg/L	0.000687	-0.00289	mg/L	0.000687	23.79%
Sr 421.552†	143643.5	0.5021	mg/L	0.00472	0.5021	mg/L	0.00472	0.94%
Ti 334.903†	615.8	0.02791	mg/L	0.001095	0.02791	mg/L	0.001095	3.93%
Tl 190.801†	4592.5	2.144	mg/L	0.0285	2.144	mg/L	0.0285	1.33%
V 292.402†	63703.9	0.5117	mg/L	0.00892	0.5117	mg/L	0.00892	1.74%
Zn 206.200†	632.1	0.5151	mg/L	0.01090	0.5151	mg/L	0.01090	2.12%

Sequence No.: 16
Sample ID: NV43 MB1SPK DMN
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 32
Date Collected: 11/10/2008 1:44:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: NV43 MB1SPK DMN

Analyte	Back Pressure	Flow
All	140.0 kPa	0.50 L/min

Mean Data: NV43 MB1SPK DMN

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2095213.0	103.7	%	0.39				0.38%
ScR 361.383	153138.3	106.0	%	0.24				0.23%
Ag 328.068†	86482.8	0.5174	mg/L	0.00260	0.5174	mg/L	0.00260	0.50%
Al 308.215†	3650.3	2.064	mg/L	0.0046	2.064	mg/L	0.0046	0.22%
As 188.979†	2703.3	2.082	mg/L	0.0223	2.082	mg/L	0.0223	1.07%
B 249.677†	2.7	-0.00012	mg/L	0.004020	-0.00012	mg/L	0.004020	>999.9%
Ba 233.527†	14363.4	1.901	mg/L	0.0029	1.901	mg/L	0.0029	0.15%
Be 313.042†	129476.3	0.5025	mg/L	0.00081	0.5025	mg/L	0.00081	0.16%
Ca 317.933†	109135.6	9.953	mg/L	0.0220	9.953	mg/L	0.0220	0.22%
Cd 228.802†	25045.8	0.5073	mg/L	0.00089	0.5073	mg/L	0.00089	0.17%
Co 228.616†	26317.4	0.4849	mg/L	0.00054	0.4849	mg/L	0.00054	0.11%
Cr 267.716†	2089.7	0.4832	mg/L	0.00277	0.4832	mg/L	0.00277	0.57%
Cu 324.752†	116903.5	0.4922	mg/L	0.00070	0.4922	mg/L	0.00070	0.14%
Fe 273.955†	2980.3	1.987	mg/L	0.0279	1.987	mg/L	0.0279	1.40%
K 766.490†	12416.5	10.34	mg/L	0.116	10.34	mg/L	0.116	1.12%
Mg 279.077†	13689.5	10.34	mg/L	0.023	10.34	mg/L	0.023	0.22%
Mn 257.610†	17303.9	0.4924	mg/L	0.00185	0.4924	mg/L	0.00185	0.38%
Mo 202.031†	26.1	0.00543	mg/L	0.001711	0.00543	mg/L	0.001711	31.53%
Na 589.592†	22491.8	10.18	mg/L	0.056	10.18	mg/L	0.056	0.55%
Na 330.237†	233.3	9.863	mg/L	0.3005	9.863	mg/L	0.3005	3.05%
Ni 231.604†	556.9	0.4891	mg/L	0.00526	0.4891	mg/L	0.00526	1.08%
Pb 220.353†	16095.2	2.058	mg/L	0.0059	2.058	mg/L	0.0059	0.29%
Sb 206.836†	12.2	0.00222	mg/L	0.004901	0.00222	mg/L	0.004901	220.66%
Se 196.026†	2193.3	2.235	mg/L	0.0265	2.235	mg/L	0.0265	1.18%
Si 288.158†	52.1	0.03035	mg/L	0.007270	0.03035	mg/L	0.007270	23.95%
Sn 189.927†	-11.4	-0.00331	mg/L	0.001342	-0.00331	mg/L	0.001342	40.58%
Sr 421.552†	140065.8	0.4896	mg/L	0.00167	0.4896	mg/L	0.00167	0.34%
Ti 334.903†	14.4	-0.00014	mg/L	0.000903	-0.00014	mg/L	0.000903	627.99%
Tl 190.801†	4583.1	2.139	mg/L	0.0182	2.139	mg/L	0.0182	0.85%
V 292.402†	63196.7	0.5078	mg/L	0.00231	0.5078	mg/L	0.00231	0.45%
Zn 206.200†	610.6	0.4975	mg/L	0.00446	0.4975	mg/L	0.00446	0.90%

Sequence No.: 17
Sample ID: NV61 MB1SPK SWC
Analyst: BLW
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 33
Date Collected: 11/10/2008 1:51:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: NV61 MB1SPK SWC

Analyte	Back Pressure	Flow
All	140.0 kPa	0.50 L/min

Mean Data: NV61 MB1SPK SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2054220.9	101.7	%	0.81				0.80%
ScR 361.383	148139.0	102.5	%	0.54				0.53%
Ag 328.068†	87295.7	0.5222	mg/L	0.00575	1.044	mg/L	0.0115	1.10%
Al 308.215†	3628.6	2.052	mg/L	0.0148	4.103	mg/L	0.0296	0.72%
As 188.979†	2698.4	2.078	mg/L	0.0358	4.156	mg/L	0.0715	1.72%
B 249.677†	-2.5	-0.00290	mg/L	0.002965	-0.00581	mg/L	0.005930	102.08%
Ba 233.527†	14452.3	1.913	mg/L	0.0117	3.826	mg/L	0.0234	0.61%
Be 313.042†	129074.3	0.5009	mg/L	0.00055	1.002	mg/L	0.0011	0.11%
Ca 317.933†	109875.3	10.02	mg/L	0.028	20.04	mg/L	0.055	0.28%
Cd 228.802†	24202.0	0.4900	mg/L	0.00185	0.9799	mg/L	0.00370	0.38%
Co 228.616†	25847.0	0.4762	mg/L	0.00337	0.9524	mg/L	0.00674	0.71%
Cr 267.716†	2096.2	0.4847	mg/L	0.00607	0.9693	mg/L	0.01214	1.25%
Cu 324.752†	117565.5	0.4950	mg/L	0.00464	0.9900	mg/L	0.00927	0.94%
Fe 273.955†	3059.3	2.040	mg/L	0.0165	4.079	mg/L	0.0330	0.81%
K 766.490†	12648.4	10.53	mg/L	0.129	21.06	mg/L	0.258	1.22%
Mg 279.077†	13749.7	10.39	mg/L	0.061	20.78	mg/L	0.122	0.59%
Mn 257,610†	17526.8	0.4987	mg/L	0.00171	0.9974	mg/L	0.00342	0.34%
Mo 202.031†	24.9	0.00514	mg/L	0.001367	0.01029	mg/L	0.002734	26.57%
Na 589.592†	22663.9	10.26	mg/L	0.082	20.52	mg/L	0.164	0.80%
Na 330.237†	268.3	11.37	mg/L	0.576	22.75	mg/L	1.151	5.06%
Ni 231.604†	549.4	0.4825	mg/L	0.01046	0.9650	mg/L	0.02092	2.17%
Pb 220.353†	15810.7	2.022	mg/L	0.0141	4.044	mg/L	0.0283	0.70%
Sb 206.836†	12.1	0.00212	mg/L	0.001715	0.00423	mg/L	0.003429	80.98%
Se 196.026†	2012.8	2.051	mg/L	0.0269	4.102	mg/L	0.0538	1.31%
Si 288.158†	101.3	0.05713	mg/L	0.001892	0.1143	mg/L	0.00378	3.31%
Sn 189.927†	-7.5	-0.00205	mg/L	0.001413	-0.00411	mg/L	0.002825	68.75%
Sr 421.552†	140971.0	0.4928	mg/L	0.00317	0.9856	mg/L	0.00633	0.64%
Ti 334.903†	31.3	0.00064	mg/L	0.001214	0.00129	mg/L	0.002428	188.82%
Tl 190.801†	4313.5	2.013	mg/L	0.0304	4.027	mg/L	0.0607	1.51%
V 292.402†	62722.0	0.5040	mg/L	0.00520	1.008	mg/L	0.0104	1.03%
Zn 206.200†	598.1	0.4873	mg/L	0.00721	0.9746	mg/L	0.01443	1.48%

Sequence No.: 18
Sample ID: CV
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 11/10/2008 1:57:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	140.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2028328.6	100.4	%	0.78				0.78%
ScR 361.383	148182.3	102.5	%	1.14				1.11%
Ag 328.068†	173605.3	1.038	mg/L	0.0045	1.038	mg/L	0.0045	0.43%
Al 308.215†	3506.3	1.952	mg/L	0.0106	1.952	mg/L	0.0106	0.54%
As 188.979†	2631.1	2.019	mg/L	0.0171	2.019	mg/L	0.0171	0.85%
B 249.677†	1793.3	0.9654	mg/L	0.00925	0.9654	mg/L	0.00925	0.96%
Ba 233.527†	7132.1	0.9438	mg/L	0.01039	0.9438	mg/L	0.01039	1.10%
Be 313.042†	250068.9	0.9704	mg/L	0.00492	0.9704	mg/L	0.00492	0.51%
Ca 317.933†	21800.8	1.987	mg/L	0.0235	1.987	mg/L	0.0235	1.18%
Cd 228.802†	48462.2	0.9894	mg/L	0.00843	0.9894	mg/L	0.00843	0.85%
Co 228.616†	53191.3	0.9792	mg/L	0.00615	0.9792	mg/L	0.00615	0.63%
Cr 267.716†	4100.3	0.9486	mg/L	0.01115	0.9486	mg/L	0.01115	1.18%
Cu 324.752†	243097.4	1.023	mg/L	0.0060	1.023	mg/L	0.0060	0.59%
Fe 273.955†	3018.6	2.011	mg/L	0.0218	2.011	mg/L	0.0218	1.08%
K 766.490†	23834.2	19.85	mg/L	0.350	19.85	mg/L	0.350	1.76%
Mg 279.077†	2675.8	2.027	mg/L	0.0284	2.027	mg/L	0.0284	1.40%
Mn 257.610†	33888.1	0.9637	mg/L	0.00495	0.9637	mg/L	0.00495	0.51%
Mo 202.031†	4360.9	1.007	mg/L	0.0059	1.007	mg/L	0.0059	0.58%
Na 589.592†	105512.9	47.77	mg/L	0.570	47.77	mg/L	0.570	1.19%
Na 330.237†	1154.2	49.57	mg/L	0.234	49.57	mg/L	0.234	0.47%
Ni 231.604†	1098.6	0.9688	mg/L	0.01691	0.9688	mg/L	0.01691	1.75%
Pb 220.353†	15781.4	2.019	mg/L	0.0104	2.019	mg/L	0.0104	0.51%
Sb 206.836†	3729.9	2.111	mg/L	0.0100	2.111	mg/L	0.0100	0.47%
Se 196.026†	1961.0	1.997	mg/L	0.0077	1.997	mg/L	0.0077	0.38%
Si 288.158†	3915.9	2.132	mg/L	0.0253	2.132	mg/L	0.0253	1.19%
Sn 189.927†	2917.3	0.9310	mg/L	0.00568	0.9310	mg/L	0.00568	0.61%
Sr 421.552†	290778.5	1.016	mg/L	0.0117	1.016	mg/L	0.0117	1.15%
Ti 334.903†	21219.4	0.9917	mg/L	0.00892	0.9917	mg/L	0.00892	0.90%
Tl 190.801†	4318.9	2.005	mg/L	0.0118	2.005	mg/L	0.0118	0.59%
V 292.402†	124220.9	1.005	mg/L	0.0054	1.005	mg/L	0.0054	0.53%
Zn 206.200†	1238.4	1.006	mg/L	0.0093	1.006	mg/L	0.0093	0.92%

Sequence No.: 19
Sample ID: CB 2
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 11/10/2008 2:04:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	141.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2050839.9	101.5	%	0.32				0.32%
ScR 361.383	145501.9	100.7	%	0.28				0.28%
Ag 328.068†	136.0	0.00081	mg/L	0.000237	0.00081	mg/L	0.000237	29.13%
Al 308.215†	-23.5	-0.01337	mg/L	0.010638	-0.01337	mg/L	0.010638	79.58%
As 188.979†	6.6	0.00511	mg/L	0.000192	0.00511	mg/L	0.000192	3.76%
B 249.677†	5.5	0.00296	mg/L	0.001172	0.00296	mg/L	0.001172	39.59%
Ba 233.527†	-1.6	-0.00020	mg/L	0.000206	-0.00020	mg/L	0.000206	100.59%
Be 313.042†	-1.0	0.00000	mg/L	0.000020	0.00000	mg/L	0.000020	479.17%
Ca 317.933†	-33.1	-0.00302	mg/L	0.002103	-0.00302	mg/L	0.002103	69.56%
Cd 228.802†	-7.1	-0.00017	mg/L	0.000066	-0.00017	mg/L	0.000066	40.05%
Co 228.616†	5.9	0.00011	mg/L	0.000240	0.00011	mg/L	0.000240	209.36%
Cr 267.716†	1.5	0.00034	mg/L	0.000932	0.00034	mg/L	0.000932	270.09%
Cu 324.752†	73.4	0.00031	mg/L	0.000184	0.00031	mg/L	0.000184	59.62%
Fe 273.955†	-4.6	-0.00308	mg/L	0.001015	-0.00308	mg/L	0.001015	32.96%
K 766.490†	95.7	0.07971	mg/L	0.019182	0.07971	mg/L	0.019182	24.06%
Mg 279.077†	9.1	0.00685	mg/L	0.007748	0.00685	mg/L	0.007748	113.14%
Mn 257.610†	-3.6	-0.00010	mg/L	0.000149	-0.00010	mg/L	0.000149	144.94%
Mo 202.031†	3.9	0.00091	mg/L	0.000586	0.00091	mg/L	0.000586	64.40%
Na 589.592†	283.3	0.1283	mg/L	0.00847	0.1283	mg/L	0.00847	6.60%
Na 330.237†	20.0	0.8619	mg/L	0.32044	0.8619	mg/L	0.32044	37.18%
Ni 231.604†	-0.6	-0.00050	mg/L	0.002392	-0.00050	mg/L	0.002392	477.90%
Pb 220.353†	-16.7	-0.00214	mg/L	0.001339	-0.00214	mg/L	0.001339	62.51%
Sb 206.836†	2.6	0.00147	mg/L	0.001910	0.00147	mg/L	0.001910	129.64%
Se 196.026†	3.6	0.00369	mg/L	0.002316	0.00369	mg/L	0.002316	62.82%
Si 288.158†	22.8	0.01239	mg/L	0.002338	0.01239	mg/L	0.002338	18.87%
Sn 189.927†	3.8	0.00123	mg/L	0.000417	0.00123	mg/L	0.000417	33.96%
Sr 421.552†	66.3	0.00023	mg/L	0.000030	0.00023	mg/L	0.000030	12.94%
Ti 334.903†	-53.3	-0.00250	mg/L	0.000608	-0.00250	mg/L	0.000608	24.34%
Tl 190.801†	9.8	0.00458	mg/L	0.002514	0.00458	mg/L	0.002514	54.90%
V 292.402†	8.9	0.00008	mg/L	0.000173	0.00008	mg/L	0.000173	208.72%
Zn 206.200†	-2.3	-0.00183	mg/L	0.001935	-0.00183	mg/L	0.001935	105.49%

Sequence No.: 20
Sample ID: NW01 MB1 TWC
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 34
Date Collected: 11/10/2008 2:10:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: NW01 MB1 TWC

Analyte	Back Pressure	Flow
All	140.0 kPa	0.50 L/min

Mean Data: NW01 MB1 TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2065180.3	102.2	%	0.53				0.52%
ScR 361.383	148978.3	103.1	%	0.20				0.19%
Ag 328.068†	64.9	0.00039	mg/L	0.000620	0.00039	mg/L	0.000620	159.95%
Al 308.215†	-10.0	-0.00569	mg/L	0.005878	-0.00569	mg/L	0.005878	103.23%
As 188.979†	2.4	0.00184	mg/L	0.001235	0.00184	mg/L	0.001235	67.24%
B 249.677†	0.1	0.00008	mg/L	0.005751	0.00008	mg/L	0.005751	>999.9%
Ba 233.527†	2.4	0.00032	mg/L	0.000508	0.00032	mg/L	0.000508	159.12%
Be 313.042†	6.3	0.00002	mg/L	0.000038	0.00002	mg/L	0.000038	152.62%
Ca 317.933†	137.8	0.01257	mg/L	0.003736	0.01257	mg/L	0.003736	29.71%
Cd 228.802†	-10.0	-0.00021	mg/L	0.000063	-0.00021	mg/L	0.000063	29.35%
Co 228.616†	13.5	0.00025	mg/L	0.000219	0.00025	mg/L	0.000219	88.48%
Cr 267.716†	-4.0	-0.00092	mg/L	0.001249	-0.00092	mg/L	0.001249	135.51%
Cu 324.752†	3.7	0.00002	mg/L	0.000223	0.00002	mg/L	0.000223	>999.9%
Fe 273.955†	-5.3	-0.00352	mg/L	0.003426	-0.00352	mg/L	0.003426	97.41%
K 766.490†	-2.5	-0.00205	mg/L	0.007055	-0.00205	mg/L	0.007055	343.73%
Mg 279.077†	4.7	0.00357	mg/L	0.003874	0.00357	mg/L	0.003874	108.64%
Mn 257.610†	-5.5	-0.00016	mg/L	0.000139	-0.00016	mg/L	0.000139	88.64%
Mo 202.031†	2.7	0.00062	mg/L	0.000347	0.00062	mg/L	0.000347	55.99%
Na 589.592†	177.3	0.08028	mg/L	0.002972	0.08028	mg/L	0.002972	3.70%
Na 330.237†	-5.1	-0.2211	mg/L	0.58068	-0.2211	mg/L	0.58068	262.64%
Ni 231.604†	1.5	0.00131	mg/L	0.001059	0.00131	mg/L	0.001059	80.66%
Pb 220.353†	-18.6	-0.00239	mg/L	0.001043	-0.00239	mg/L	0.001043	43.72%
Sb 206.836†	4.4	0.00252	mg/L	0.001940	0.00252	mg/L	0.001940	76.91%
Se 196.026†	8.0	0.00812	mg/L	0.007513	0.00812	mg/L	0.007513	92.50%
Si 288.158†	93.4	0.05077	mg/L	0.006467	0.05077	mg/L	0.006467	12.74%
Sn 189.927†	-0.8	-0.00027	mg/L	0.001800	-0.00027	mg/L	0.001800	669.25%
Sr 421.552†	38.0	0.00013	mg/L	0.000029	0.00013	mg/L	0.000029	21.85%
Ti 334.903†	14.0	0.00065	mg/L	0.001676	0.00065	mg/L	0.001676	256.74%
Tl 190.801†	-3.8	-0.00178	mg/L	0.002428	-0.00178	mg/L	0.002428	136.37%
V 292.402†	-3.5	-0.00003	mg/L	0.000155	-0.00003	mg/L	0.000155	524.17%
Zn 206.200†	6.4	0.00516	mg/L	0.000475	0.00516	mg/L	0.000475	9.20%

Sequence No.: 21 **Autosampler Location: 35**
Sample ID: NW19 MB TWC **Date Collected: 11/10/2008 2:17:36 PM**
Analyst: BLW **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: 1X **Sample Prep Vol:**

Nebulizer Parameters: NW19 MB TWC

Analyte	Back Pressure	Flow
All	140.0 kPa	0.50 L/min

Mean Data: NW19 MB TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	2074066.6	102.7	%	0.46				0.45%
ScR 361.383	148049.0	102.4	%	1.56				1.53%
Ag 328.068†	23.0	0.00014	mg/L	0.000402	0.00014	mg/L	0.000402	292.71%
Al 308.215†	4.8	0.00270	mg/L	0.010122	0.00270	mg/L	0.010122	375.20%
As 188.979†	2.4	0.00184	mg/L	0.001413	0.00184	mg/L	0.001413	76.67%
B 249.677†	-4.6	-0.00249	mg/L	0.000813	-0.00249	mg/L	0.000813	32.70%
Ba 233.527†	4.0	0.00053	mg/L	0.000035	0.00053	mg/L	0.000035	6.59%
Be 313.042†	-17.3	-0.00007	mg/L	0.000045	-0.00007	mg/L	0.000045	67.10%
Ca 317.933†	142.5	0.01300	mg/L	0.003606	0.01300	mg/L	0.003606	27.74%
Cd 228.802†	-11.0	-0.00023	mg/L	0.000070	-0.00023	mg/L	0.000070	30.06%
Co 228.616†	10.9	0.00020	mg/L	0.000022	0.00020	mg/L	0.000022	10.98%
Cr 267.716†	-1.1	-0.00024	mg/L	0.000788	-0.00024	mg/L	0.000788	321.93%
Cu 324.752†	-69.7	-0.00029	mg/L	0.000071	-0.00029	mg/L	0.000071	24.31%
Fe 273.955†	-2.6	-0.00172	mg/L	0.001461	-0.00172	mg/L	0.001461	84.76%
K 766.490†	-30.0	-0.02498	mg/L	0.021597	-0.02498	mg/L	0.021597	86.45%
Mg 279.077†	4.7	0.00352	mg/L	0.004146	0.00352	mg/L	0.004146	117.83%
Mn 257.610†	-9.9	-0.00028	mg/L	0.000080	-0.00028	mg/L	0.000080	28.13%
Mo 202.031†	1.0	0.00023	mg/L	0.000666	0.00023	mg/L	0.000666	294.46%
Na 589.592†	163.1	0.07384	mg/L	0.017848	0.07384	mg/L	0.017848	24.17%
Na 330.237†	14.8	0.6377	mg/L	0.92756	0.6377	mg/L	0.92756	145.45%
Ni 231.604†	-1.7	-0.00150	mg/L	0.004167	-0.00150	mg/L	0.004167	278.30%
Pb 220.353†	-22.5	-0.00287	mg/L	0.001632	-0.00287	mg/L	0.001632	56.82%
Sb 206.836†	0.4	0.00026	mg/L	0.002217	0.00026	mg/L	0.002217	866.14%
Se 196.026†	4.0	0.00403	mg/L	0.006066	0.00403	mg/L	0.006066	150.50%
Si 288.158†	95.2	0.05175	mg/L	0.005778	0.05175	mg/L	0.005778	11.17%
Sn 189.927†	1.9	0.00062	mg/L	0.000618	0.00062	mg/L	0.000618	99.93%
Sr 421.552†	37.0	0.00013	mg/L	0.000046	0.00013	mg/L	0.000046	35.74%
Ti 334.903†	39.7	0.00186	mg/L	0.001104	0.00186	mg/L	0.001104	59.50%
Tl 190.801†	-1.1	-0.00052	mg/L	0.000952	-0.00052	mg/L	0.000952	184.52%
V 292.402†	-44.8	-0.00036	mg/L	0.000255	-0.00036	mg/L	0.000255	71.21%
Zn 206.200†	4.9	0.00400	mg/L	0.001588	0.00400	mg/L	0.001588	39.70%

Sequence No.: 22
Sample ID: NW19 G TWC
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 36
Date Collected: 11/10/2008 2:24:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: NW19 G TWC

Analyte	Back Pressure	Flow
All	141.0 kPa	0.50 L/min

Mean Data: NW19 G TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2038329.8	100.9	%	0.64				0.64%
ScR 361.383	150067.5	103.8	%	0.16				0.15%
Ag 328.068†	60.7	0.00040	mg/L	0.000436	0.00040	mg/L	0.000436	108.88%
Al 308.215†	12.5	0.00674	mg/L	0.013601	0.00674	mg/L	0.013601	201.83%
As 188.979†	2.3	-0.00397	mg/L	0.004058	-0.00397	mg/L	0.004058	102.15%
B 249.677†	58.5	0.03171	mg/L	0.001525	0.03171	mg/L	0.001525	4.81%
Ba 233.527†	163.5	0.02160	mg/L	0.000486	0.02160	mg/L	0.000486	2.25%
Be 313.042†	-8.5	-0.00003	mg/L	0.000101	-0.00003	mg/L	0.000101	288.70%
Ca 317.933†	580263.6	52.92	mg/L	0.250	52.92	mg/L	0.250	0.47%
Cd 228.802†	-23.3	-0.00049	mg/L	0.000048	-0.00049	mg/L	0.000048	9.93%
Co 228.616†	12.1	0.00022	mg/L	0.000049	0.00022	mg/L	0.000049	22.33%
Cr 267.716†	-2.1	-0.00130	mg/L	0.000168	-0.00130	mg/L	0.000168	12.88%
Cu 324.752†	292.0	0.00130	mg/L	0.000252	0.00130	mg/L	0.000252	19.36%
Fe 273.955†	1417.8	0.9457	mg/L	0.00703	0.9457	mg/L	0.00703	0.74%
K 766.490†	3414.2	2.843	mg/L	0.0390	2.843	mg/L	0.0390	1.37%
Mg 279.077†	26332.7	19.89	mg/L	0.054	19.89	mg/L	0.054	0.27%
Mn 257.610†	904.6	0.02512	mg/L	0.000178	0.02512	mg/L	0.000178	0.71%
Mo 202.031†	67.4	0.01179	mg/L	0.001134	0.01179	mg/L	0.001134	9.61%
Na 589.592†	53863.7	24.39	mg/L	0.145	24.39	mg/L	0.145	0.60%
Na 330.237†	609.0	26.25	mg/L	0.571	26.25	mg/L	0.571	2.18%
Ni 231.604†	-4.5	-0.00407	mg/L	0.005368	-0.00407	mg/L	0.005368	132.02%
Pb 220.353†	-42.0	-0.00544	mg/L	0.000970	-0.00544	mg/L	0.000970	17.85%
Sb 206.836†	-2.5	-0.00141	mg/L	0.002527	-0.00141	mg/L	0.002527	179.58%
Se 196.026†	-20.9	-0.01205	mg/L	0.004937	-0.01205	mg/L	0.004937	40.96%
Si 288.158†	19996.7	10.87	mg/L	0.073	10.87	mg/L	0.073	0.67%
Sn 189.927†	-11.2	-0.00274	mg/L	0.000343	-0.00274	mg/L	0.000343	12.52%
Sr 421.552†	69404.7	0.2426	mg/L	0.00085	0.2426	mg/L	0.00085	0.35%
Ti 334.903†	87.0	0.00042	mg/L	0.000578	0.00042	mg/L	0.000578	138.32%
Tl 190.801†	-3.1	-0.00152	mg/L	0.001053	-0.00152	mg/L	0.001053	69.03%
V 292.402†	76.7	0.00065	mg/L	0.000109	0.00065	mg/L	0.000109	16.75%
Zn 206.200†	33.8	0.03171	mg/L	0.002465	0.03171	mg/L	0.002465	7.77%

Sequence No.: 23
Sample ID: NW19 H TWC
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 37
Date Collected: 11/10/2008 2:30:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: NW19 H TWC

Analyte	Back Pressure	Flow
All	141.0 kPa	0.50 L/min

Mean Data: NW19 H TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2019508.0	99.97	%	0.351				0.35%
ScR 361.383	146895.2	101.6	%	0.56				0.55%
Ag 328.068†	88.9	0.00061	mg/L	0.000779	0.00061	mg/L	0.000779	127.24%
Al 308.215†	-7.3	-0.00452	mg/L	0.008459	-0.00452	mg/L	0.008459	187.01%
As 188.979†	7.4	0.00052	mg/L	0.002171	0.00052	mg/L	0.002171	419.71%
B 249.677†	47.7	0.02600	mg/L	0.001170	0.02600	mg/L	0.001170	4.50%
Ba 233.527†	163.3	0.02152	mg/L	0.000182	0.02152	mg/L	0.000182	0.85%
Be 313.042†	38.3	0.00014	mg/L	0.000024	0.00014	mg/L	0.000024	17.16%
Ca 317.933†	512932.2	46.78	mg/L	0.159	46.78	mg/L	0.159	0.34%
Cd 228.802†	-21.4	-0.00046	mg/L	0.000046	-0.00046	mg/L	0.000046	9.89%
Co 228.616†	-1.0	-0.00003	mg/L	0.000139	-0.00003	mg/L	0.000139	552.47%
Cr 267.716†	6.7	0.00054	mg/L	0.001374	0.00054	mg/L	0.001374	253.92%
Cu 324.752†	6336.4	0.02683	mg/L	0.000458	0.02683	mg/L	0.000458	1.71%
Fe 273.955†	3089.5	2.061	mg/L	0.0097	2.061	mg/L	0.0097	0.47%
K 766.490†	4766.7	3.969	mg/L	0.0127	3.969	mg/L	0.0127	0.32%
Mg 279.077†	32932.3	24.88	mg/L	0.127	24.88	mg/L	0.127	0.51%
Mn 257.610†	424.2	0.01133	mg/L	0.000115	0.01133	mg/L	0.000115	1.02%
Mo 202.031†	68.1	0.01240	mg/L	0.000729	0.01240	mg/L	0.000729	5.88%
Na 589.592†	80925.2	36.64	mg/L	0.367	36.64	mg/L	0.367	1.00%
Na 330.237†	917.1	39.54	mg/L	0.422	39.54	mg/L	0.422	1.07%
Ni 231.604†	3.4	0.00285	mg/L	0.006483	0.00285	mg/L	0.006483	227.48%
Pb 220.353†	-26.3	-0.00355	mg/L	0.000317	-0.00355	mg/L	0.000317	8.92%
Sb 206.836†	-5.0	-0.00286	mg/L	0.001876	-0.00286	mg/L	0.001876	65.63%
Se 196.026†	-17.0	-0.00846	mg/L	0.007195	-0.00846	mg/L	0.007195	85.06%
Si 288.158†	21460.0	11.67	mg/L	0.036	11.67	mg/L	0.036	0.30%
Sn 189.927†	-14.9	-0.00377	mg/L	0.000985	-0.00377	mg/L	0.000985	26.13%
Sr 421.552†	55684.6	0.1947	mg/L	0.00168	0.1947	mg/L	0.00168	0.86%
Ti 334.903†	95.8	0.00125	mg/L	0.002231	0.00125	mg/L	0.002231	178.22%
Tl 190.801†	1.5	0.00064	mg/L	0.002992	0.00064	mg/L	0.002992	464.85%
V 292.402†	385.2	0.00303	mg/L	0.000077	0.00303	mg/L	0.000077	2.55%
Zn 206.200†	-4.3	0.00081	mg/L	0.002093	0.00081	mg/L	0.002093	259.24%

Sequence No.: 24
Sample ID: NW19 I TWC
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 38
Date Collected: 11/10/2008 2:37:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: NW19 I TWC

Analyte	Back Pressure	Flow
All	140.0 kPa	0.50 L/min

Mean Data: NW19 I TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1954806.4	96.77	%	0.424				0.44%
ScR 361.383	145169.3	100.5	%	0.32				0.31%
Ag 328.068†	140.3	0.00085	mg/L	0.000392	0.00085	mg/L	0.000392	46.24%
Al 308.215†	-0.8	-0.00102	mg/L	0.016676	-0.00102	mg/L	0.016676	>999.9%
As 188.979†	11.9	-0.00066	mg/L	0.001508	-0.00066	mg/L	0.001508	227.26%
B 249.677†	133.4	0.07205	mg/L	0.001735	0.07205	mg/L	0.001735	2.41%
Ba 233.527†	541.9	0.07174	mg/L	0.000301	0.07174	mg/L	0.000301	0.42%
Be 313.042†	27.5	0.00011	mg/L	0.000078	0.00011	mg/L	0.000078	72.95%
Ca 317.933†	992077.4	90.48	mg/L	0.378	90.48	mg/L	0.378	0.42%
Cd 228.802†	-22.9	-0.00051	mg/L	0.000197	-0.00051	mg/L	0.000197	38.66%
Co 228.616†	6.0	0.00010	mg/L	0.000117	0.00010	mg/L	0.000117	121.77%
Cr 267.716†	9.9	-0.00103	mg/L	0.000853	-0.00103	mg/L	0.000853	83.05%
Cu 324.752†	420.1	0.00177	mg/L	0.000137	0.00177	mg/L	0.000137	7.73%
Fe 273.955†	314.1	0.2095	mg/L	0.00242	0.2095	mg/L	0.00242	1.16%
K 766.490†	15048.5	12.53	mg/L	0.091	12.53	mg/L	0.091	0.73%
Mg 279.077†	102519.6	77.45	mg/L	0.586	77.45	mg/L	0.586	0.76%
Mn 257.610†	17060.3	0.4824	mg/L	0.00238	0.4824	mg/L	0.00238	0.49%
Mo 202.031†	107.3	0.01798	mg/L	0.000764	0.01798	mg/L	0.000764	4.25%
Na 589.592†	184461.2	83.51	mg/L	0.650	83.51	mg/L	0.650	0.78%
Na 330.237†	2035.9	87.78	mg/L	0.689	87.78	mg/L	0.689	0.78%
Ni 231.604†	-6.4	-0.00568	mg/L	0.002059	-0.00568	mg/L	0.002059	36.28%
Pb 220.353†	-40.0	-0.00511	mg/L	0.000275	-0.00511	mg/L	0.000275	5.38%
Sb 206.836†	-9.0	-0.00520	mg/L	0.003046	-0.00520	mg/L	0.003046	58.62%
Se 196.026†	-41.2	-0.02395	mg/L	0.003359	-0.02395	mg/L	0.003359	14.02%
Si 288.158†	20245.7	11.02	mg/L	0.050	11.02	mg/L	0.050	0.46%
Sn 189.927†	-33.0	-0.00714	mg/L	0.000947	-0.00714	mg/L	0.000947	13.27%
Sr 421.552†	192120.5	0.6716	mg/L	0.00335	0.6716	mg/L	0.00335	0.50%
Ti 334.903†	98.9	-0.00162	mg/L	0.000579	-0.00162	mg/L	0.000579	35.79%
Tl 190.801†	-13.6	-0.00714	mg/L	0.000337	-0.00714	mg/L	0.000337	4.72%
V 292.402†	20.2	0.00041	mg/L	0.000189	0.00041	mg/L	0.000189	46.42%
Zn 206.200†	0.7	0.01084	mg/L	0.001076	0.01084	mg/L	0.001076	9.92%

Sequence No.: 25
Sample ID: NW19 J TWC
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 39
Date Collected: 11/10/2008 2:44:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: NW19 J TWC

Analyte	Back Pressure	Flow
All	141.0 kPa	0.50 L/min

Mean Data: NW19 J TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1999247.5	98.97	%	0.445				0.45%
ScR 361.383	149126.1	103.2	%	0.70				0.68%
Ag 328.068†	52.8	0.00035	mg/L	0.000034	0.00035	mg/L	0.000034	9.72%
Al 308.215†	14.8	0.00786	mg/L	0.020103	0.00786	mg/L	0.020103	255.64%
As 188.979†	11.0	0.00024	mg/L	0.009703	0.00024	mg/L	0.009703	>999.9%
B 249.677†	77.2	0.04176	mg/L	0.000996	0.04176	mg/L	0.000996	2.38%
Ba 233.527†	170.1	0.02248	mg/L	0.000318	0.02248	mg/L	0.000318	1.42%
Be 313.042†	-2.6	-0.00002	mg/L	0.000142	-0.00002	mg/L	0.000142	802.29%
Ca 317.933†	842261.7	76.82	mg/L	0.368	76.82	mg/L	0.368	0.48%
Cd 228.802†	-16.6	-0.00038	mg/L	0.000089	-0.00038	mg/L	0.000089	23.66%
Co 228.616†	4.0	0.00007	mg/L	0.000184	0.00007	mg/L	0.000184	260.55%
Cr 267.716†	2.4	-0.00095	mg/L	0.001118	-0.00095	mg/L	0.001118	117.89%
Cu 324.752†	4404.0	0.01860	mg/L	0.000039	0.01860	mg/L	0.000039	0.21%
Fe 273.955†	1378.7	0.9196	mg/L	0.00994	0.9196	mg/L	0.00994	1.08%
K 766.490†	8051.4	6.704	mg/L	0.0862	6.704	mg/L	0.0862	1.29%
Mg 279.077†	47964.0	36.23	mg/L	0.318	36.23	mg/L	0.318	0.88%
Mn 257.610†	281.1	0.00693	mg/L	0.000111	0.00693	mg/L	0.000111	1.60%
Mo 202.031†	89.5	0.01510	mg/L	0.000306	0.01510	mg/L	0.000306	2.03%
Na 589.592†	69415.0	31.43	mg/L	0.115	31.43	mg/L	0.115	0.37%
Na 330.237†	772.8	33.32	mg/L	0.383	33.32	mg/L	0.383	1.15%
Ni 231.604†	-5.8	-0.00513	mg/L	0.002619	-0.00513	mg/L	0.002619	51.01%
Pb 220.353†	-29.1	-0.00380	mg/L	0.000875	-0.00380	mg/L	0.000875	23.01%
Sb 206.836†	-9.0	-0.00513	mg/L	0.001433	-0.00513	mg/L	0.001433	27.92%
Se 196.026†	-29.5	-0.01633	mg/L	0.002305	-0.01633	mg/L	0.002305	14.12%
Si 288.158†	22320.9	12.14	mg/L	0.145	12.14	mg/L	0.145	1.19%
Sn 189.927†	-20.5	-0.00502	mg/L	0.000957	-0.00502	mg/L	0.000957	19.08%
Sr 421.552†	125173.7	0.4376	mg/L	0.00085	0.4376	mg/L	0.00085	0.19%
Ti 334.903†	83.1	-0.00141	mg/L	0.000610	-0.00141	mg/L	0.000610	43.24%
Tl 190.801†	-8.1	-0.00386	mg/L	0.003421	-0.00386	mg/L	0.003421	88.61%
V 292.402†	355.8	0.00292	mg/L	0.000164	0.00292	mg/L	0.000164	5.63%
Zn 206.200†	6.0	0.01160	mg/L	0.000987	0.01160	mg/L	0.000987	8.51%

Sequence No.: 26
Sample ID: NW19 K TWC
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 40
Date Collected: 11/10/2008 2:51:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: NW19 K TWC

Analyte	Back Pressure	Flow
All	141.0 kPa	0.50 L/min

Mean Data: NW19 K TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1986185.7	98.32	%	0.674				0.69%
ScR 361.383	148169.3	102.5	%	0.96				0.94%
Ag 328.068†	88.1	0.00058	mg/L	0.000364	0.00058	mg/L	0.000364	63.11%
Al 308.215†	-5.7	-0.00391	mg/L	0.011465	-0.00391	mg/L	0.011465	292.87%
As 188.979†	11.2	-0.00005	mg/L	0.002395	-0.00005	mg/L	0.002395	>999.9%
B 249.677†	141.6	0.07655	mg/L	0.002668	0.07655	mg/L	0.002668	3.48%
Ba 233.527†	302.3	0.03996	mg/L	0.000342	0.03996	mg/L	0.000342	0.86%
Be 313.042†	-2.8	-0.00002	mg/L	0.000011	-0.00002	mg/L	0.000011	62.74%
Ca 317.933†	877502.1	80.03	mg/L	0.173	80.03	mg/L	0.173	0.22%
Cd 228.802†	-23.1	-0.00051	mg/L	0.000207	-0.00051	mg/L	0.000207	40.66%
Co 228.616†	7.3	0.00013	mg/L	0.000168	0.00013	mg/L	0.000168	133.54%
Cr 267.716†	19.9	0.00229	mg/L	0.001181	0.00229	mg/L	0.001181	51.59%
Cu 324.752†	3728.6	0.01578	mg/L	0.000227	0.01578	mg/L	0.000227	1.44%
Fe 273.955†	1903.8	1.270	mg/L	0.0035	1.270	mg/L	0.0035	0.28%
K 766.490†	10210.6	8.502	mg/L	0.1062	8.502	mg/L	0.1062	1.25%
Mg 279.077†	73710.7	55.69	mg/L	0.631	55.69	mg/L	0.631	1.13%
Mn 257.610†	3519.9	0.09838	mg/L	0.000885	0.09838	mg/L	0.000885	0.90%
Mo 202.031†	119.9	0.02181	mg/L	0.000803	0.02181	mg/L	0.000803	3.68%
Na 589.592†	79936.2	36.19	mg/L	0.218	36.19	mg/L	0.218	0.60%
Na 330.237†	891.5	38.44	mg/L	0.847	38.44	mg/L	0.847	2.20%
Ni 231.604†	-1.6	-0.00153	mg/L	0.001926	-0.00153	mg/L	0.001926	125.93%
Pb 220.353†	-7.7	-0.00108	mg/L	0.000578	-0.00108	mg/L	0.000578	53.51%
Sb 206.836†	-8.8	-0.00507	mg/L	0.002095	-0.00507	mg/L	0.002095	41.28%
Se 196.026†	-37.1	-0.02236	mg/L	0.012167	-0.02236	mg/L	0.012167	54.41%
Si 288.158†	21630.4	11.77	mg/L	0.084	11.77	mg/L	0.084	0.71%
Sn 189.927†	-29.8	-0.00715	mg/L	0.001023	-0.00715	mg/L	0.001023	14.31%
Sr 421.552†	124935.4	0.4367	mg/L	0.00143	0.4367	mg/L	0.00143	0.33%
Ti 334.903†	123.8	0.00026	mg/L	0.001272	0.00026	mg/L	0.001272	481.72%
Tl 190.801†	-3.4	-0.00180	mg/L	0.001549	-0.00180	mg/L	0.001549	86.25%
V 292.402†	313.3	0.00264	mg/L	0.000376	0.00264	mg/L	0.000376	14.23%
Zn 206.200†	-8.8	0.00110	mg/L	0.000889	0.00110	mg/L	0.000889	80.64%

Sequence No.: 27 **Autosampler Location: 41**
Sample ID: NW19 L TWC **Date Collected: 11/10/2008 2:58:20 PM**
Analyst: BLW **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: 1X **Sample Prep Vol:**

Nebulizer Parameters: NW19 L TWC

Analyte	Back Pressure	Flow
All	141.0 kPa	0.50 L/min

Mean Data: NW19 L TWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1986804.5	98.36	%	0.517				0.53%
ScR 361.383	148429.2	102.7	%	0.74				0.72%
Ag 328.068†	162.1	0.00098	mg/L	0.000118	0.00098	mg/L	0.000118	12.02%
Al 308.215†	17.3	0.00927	mg/L	0.019856	0.00927	mg/L	0.019856	214.09%
As 188.979†	11.6	-0.00133	mg/L	0.005615	-0.00133	mg/L	0.005615	423.36%
B 249.677†	82.6	0.04463	mg/L	0.001034	0.04463	mg/L	0.001034	2.32%
Ba 233.527†	171.8	0.02274	mg/L	0.000562	0.02274	mg/L	0.000562	2.47%
Be 313.042†	17.1	0.00007	mg/L	0.000027	0.00007	mg/L	0.000027	40.06%
Ca 317.933†	899287.3	82.02	mg/L	0.413	82.02	mg/L	0.413	0.50%
Cd 228.802†	-21.6	-0.00048	mg/L	0.000085	-0.00048	mg/L	0.000085	17.83%
Co 228.616†	21.6	0.00039	mg/L	0.000189	0.00039	mg/L	0.000189	48.31%
Cr 267.716†	8.6	-0.00014	mg/L	0.001083	-0.00014	mg/L	0.001083	771.43%
Cu 324.752†	318.4	0.00135	mg/L	0.000176	0.00135	mg/L	0.000176	13.00%
Fe 273.955†	353.5	0.2358	mg/L	0.00508	0.2358	mg/L	0.00508	2.15%
K 766.490†	8079.7	6.728	mg/L	0.0774	6.728	mg/L	0.0774	1.15%
Mg 279.077†	50229.8	37.95	mg/L	0.481	37.95	mg/L	0.481	1.27%
Mn 257.610†	110045.8	3.125	mg/L	0.0096	3.125	mg/L	0.0096	0.31%
Mo 202.031†	97.9	0.01663	mg/L	0.000238	0.01663	mg/L	0.000238	1.43%
Na 589.592†	70648.8	31.99	mg/L	0.330	31.99	mg/L	0.330	1.03%
Na 330.237†	788.4	33.98	mg/L	1.412	33.98	mg/L	1.412	4.15%
Ni 231.604†	-0.5	-0.00048	mg/L	0.001157	-0.00048	mg/L	0.001157	242.90%
Pb 220.353†	-41.4	-0.00530	mg/L	0.001187	-0.00530	mg/L	0.001187	22.42%
Sb 206.836†	-3.3	-0.00191	mg/L	0.003040	-0.00191	mg/L	0.003040	159.43%
Se 196.026†	-27.1	-0.01314	mg/L	0.003180	-0.01314	mg/L	0.003180	24.19%
Si 288.158†	21441.8	11.66	mg/L	0.140	11.66	mg/L	0.140	1.20%
Sn 189.927†	-22.6	-0.00555	mg/L	0.000751	-0.00555	mg/L	0.000751	13.53%
Sr 421.552†	147629.6	0.5161	mg/L	0.00404	0.5161	mg/L	0.00404	0.78%
Ti 334.903†	134.4	0.00063	mg/L	0.001437	0.00063	mg/L	0.001437	229.44%
Tl 190.801†	2.5	-0.00390	mg/L	0.000686	-0.00390	mg/L	0.000686	17.61%
V 292.402†	6.9	0.00060	mg/L	0.000006	0.00060	mg/L	0.000006	0.97%
Zn 206.200†	31.1	0.03138	mg/L	0.002018	0.03138	mg/L	0.002018	6.43%

Sequence No.: 28 **Autosampler Location: 42**
Sample ID: NV61 A SWC **Date Collected: 11/10/2008 3:05:15 PM**
Analyst: BLW **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: 2X **Sample Prep Vol:**

Nebulizer Parameters: NV61 A SWC

Analyte	Back Pressure	Flow
All	140.0 kPa	0.50 L/min

Mean Data: NV61 A SWC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2070515.9	102.5	%	0.20				0.19%
ScR 361.383	152399.3	105.5	%	1.22				1.15%
Ag 328.068†	-1312.5	-0.00115	mg/L	0.000329	-0.00229	mg/L	0.000658	28.70%
Al 308.215†	336462.9	190.9	mg/L	0.92	381.7	mg/L	1.85	0.48%
As 188.979†	201.1	0.07441	mg/L	0.007967	0.1488	mg/L	0.01593	10.71%
B 249.677†	8.5	0.02387	mg/L	0.004527	0.04773	mg/L	0.009053	18.97%
Ba 233.527†	6800.1	0.8919	mg/L	0.00810	1.784	mg/L	0.0162	0.91%
Be 313.042†	919.0	0.00229	mg/L	0.000060	0.00457	mg/L	0.000119	2.61%
Ca 317.933†	284899.6	25.98	mg/L	0.073	51.97	mg/L	0.146	0.28%
Cd 228.802†	204.8	0.00363	mg/L	0.000103	0.00727	mg/L	0.000205	2.82%
Co 228.616†	4176.3	0.05973	mg/L	0.000334	0.1195	mg/L	0.00067	0.56%
Cr 267.716†	986.2	0.2282	mg/L	0.00323	0.4564	mg/L	0.00645	1.41%
Cu 324.752†	164057.6	0.7033	mg/L	0.00140	1.407	mg/L	0.0028	0.20%
Fe 273.955†	263641.2	175.8	mg/L	0.23	351.7	mg/L	0.46	0.13%
K 766.490†	4241.4	3.532	mg/L	0.0439	7.063	mg/L	0.0878	1.24%
Mg 279.077†	49528.1	37.34	mg/L	0.092	74.68	mg/L	0.185	0.25%
Mn 257.610†	111368.4	3.162	mg/L	0.0024	6.325	mg/L	0.0048	0.08%
Mo 202.031†	-45.6	-0.00192	mg/L	0.002321	-0.00384	mg/L	0.004642	120.90%
Na 589.592†	8843.8	4.004	mg/L	0.0285	8.008	mg/L	0.0571	0.71%
Na 330.237†	64.3	3.961	mg/L	0.6071	7.922	mg/L	1.2142	15.33%
Ni 231.604†	294.7	0.2510	mg/L	0.00378	0.5019	mg/L	0.00756	1.51%
Pb 220.353†	1890.6	0.2850	mg/L	0.00285	0.5700	mg/L	0.00570	1.00%
Sb 206.836†	-41.7	0.02728	mg/L	0.003689	0.05456	mg/L	0.007378	13.52%
Se 196.026†	-74.1	-0.00656	mg/L	0.010655	-0.01313	mg/L	0.021310	162.34%
Si 288.158†	15503.0	8.433	mg/L	0.0294	16.87	mg/L	0.059	0.35%
Sn 189.927†	14.4	-0.00083	mg/L	0.002755	-0.00165	mg/L	0.005509	333.15%
Sr 421.552†	41727.2	0.1459	mg/L	0.00078	0.2917	mg/L	0.00156	0.53%
Ti 334.903†	191620.3	8.966	mg/L	0.0479	17.93	mg/L	0.096	0.53%
Tl 190.801†	0.2	-0.02107	mg/L	0.004287	-0.04214	mg/L	0.008573	20.35%
V 292.402†	55555.0	0.4232	mg/L	0.00118	0.8464	mg/L	0.00236	0.28%
Zn 206.200†	1914.1	1.565	mg/L	0.0181	3.131	mg/L	0.0361	1.15%

Sequence No.: 29
Sample ID: NW19 MBSPK TWC
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 43
Date Collected: 11/10/2008 3:11:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: NW19 MBSPK TWC

Analyte	Back Pressure	Flow
All	141.0 kPa	0.50 L/min

Mean Data: NW19 MBSPK TWC

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2039010.7	100.9	%	1.17				1.16%
ScR 361.383	147851.7	102.3	%	0.11				0.11%
Ag 328.068†	86136.3	0.5153	mg/L	0.00887	0.5153	mg/L	0.00887	1.72%
Al 308.215†	3633.3	2.054	mg/L	0.0093	2.054	mg/L	0.0093	0.45%
As 188.979†	2683.2	2.067	mg/L	0.0289	2.067	mg/L	0.0289	1.40%
B 249.677†	-4.6	-0.00407	mg/L	0.003390	-0.00407	mg/L	0.003390	83.39%
Ba 233.527†	14446.2	1.912	mg/L	0.0047	1.912	mg/L	0.0047	0.25%
Be 313.042†	129925.2	0.5042	mg/L	0.00083	0.5042	mg/L	0.00083	0.16%
Ca 317.933†	110591.9	10.09	mg/L	0.010	10.09	mg/L	0.010	0.10%
Cd 228.802†	24156.7	0.4891	mg/L	0.00852	0.4891	mg/L	0.00852	1.74%
Co 228.616†	25861.9	0.4765	mg/L	0.00781	0.4765	mg/L	0.00781	1.64%
Cr 267.716†	2109.9	0.4878	mg/L	0.00215	0.4878	mg/L	0.00215	0.44%
Cu 324.752†	116580.2	0.4908	mg/L	0.00809	0.4908	mg/L	0.00809	1.65%
Fe 273.955†	3093.6	2.062	mg/L	0.0057	2.062	mg/L	0.0057	0.28%
K 766.490†	12562.2	10.46	mg/L	0.078	10.46	mg/L	0.078	0.75%
Mg 279.077†	13804.1	10.43	mg/L	0.023	10.43	mg/L	0.023	0.22%
Mn 257.610†	17419.9	0.4957	mg/L	0.00443	0.4957	mg/L	0.00443	0.89%
Mo 202.031†	23.1	0.00472	mg/L	0.001146	0.00472	mg/L	0.001146	24.29%
Na 589.592†	22353.2	10.12	mg/L	0.017	10.12	mg/L	0.017	0.17%
Na 330.237†	276.6	11.73	mg/L	0.708	11.73	mg/L	0.708	6.03%
Ni 231.604†	555.2	0.4876	mg/L	0.00560	0.4876	mg/L	0.00560	1.15%
Pb 220.353†	15672.5	2.004	mg/L	0.0348	2.004	mg/L	0.0348	1.74%
Sb 206.836†	12.6	0.00240	mg/L	0.006545	0.00240	mg/L	0.006545	272.70%
Se 196.026†	2016.2	2.055	mg/L	0.0288	2.055	mg/L	0.0288	1.40%
Si 288.158†	110.3	0.06202	mg/L	0.003431	0.06202	mg/L	0.003431	5.53%
Sn 189.927†	-6.4	-0.00171	mg/L	0.000658	-0.00171	mg/L	0.000658	38.55%
Sr 421.552†	140137.0	0.4899	mg/L	0.00148	0.4899	mg/L	0.00148	0.30%
Ti 334.903†	33.4	0.00073	mg/L	0.000254	0.00073	mg/L	0.000254	34.52%
Tl 190.801†	4255.3	1.986	mg/L	0.0181	1.986	mg/L	0.0181	0.91%
V 292.402†	62768.8	0.5044	mg/L	0.00921	0.5044	mg/L	0.00921	1.83%
Zn 206.200†	603.5	0.4917	mg/L	0.00315	0.4917	mg/L	0.00315	0.64%

Sequence No.: 30
Sample ID: CV 3
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 7
Date Collected: 11/10/2008 3:18:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	141.0 kPa	0.50 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1989084.4	98.47	%	0.482				0.49%
ScR 361.383	144226.4	99.80	%	1.260				1.26%
Ag 328.068†	173977.0	1.041	mg/L	0.0094	1.041	mg/L	0.0094	0.90%
Al 308.215†	3547.4	1.975	mg/L	0.0209	1.975	mg/L	0.0209	1.06%
As 188.979†	2636.7	2.023	mg/L	0.0093	2.023	mg/L	0.0093	0.46%
B 249.677†	1802.5	0.9704	mg/L	0.01056	0.9704	mg/L	0.01056	1.09%
Ba 233.527†	7178.7	0.9500	mg/L	0.01012	0.9500	mg/L	0.01012	1.07%
Be 313.042†	249600.7	0.9686	mg/L	0.00402	0.9686	mg/L	0.00402	0.42%
Ca 317.933†	21818.3	1.989	mg/L	0.0232	1.989	mg/L	0.0232	1.17%
Cd 228.802†	48798.4	0.9963	mg/L	0.00360	0.9963	mg/L	0.00360	0.36%
Co 228.616†	53255.6	0.9804	mg/L	0.00375	0.9804	mg/L	0.00375	0.38%
Cr 267.716†	4096.0	0.9476	mg/L	0.01203	0.9476	mg/L	0.01203	1.27%
Cu 324.752†	244491.2	1.029	mg/L	0.0046	1.029	mg/L	0.0046	0.45%
Fe 273.955†	3023.9	2.015	mg/L	0.0254	2.015	mg/L	0.0254	1.26%
K 766.490†	24523.3	20.42	mg/L	0.111	20.42	mg/L	0.111	0.55%
Mg 279.077†	2679.9	2.030	mg/L	0.0203	2.030	mg/L	0.0203	1.00%
Mn 257.610†	33774.9	0.9605	mg/L	0.00359	0.9605	mg/L	0.00359	0.37%
Mo 202.031†	4379.3	1.011	mg/L	0.0066	1.011	mg/L	0.0066	0.66%
Na 589.592†	106940.2	48.42	mg/L	0.029	48.42	mg/L	0.029	0.06%
Na 330.237†	1179.0	50.64	mg/L	1.042	50.64	mg/L	1.042	2.06%
Ni 231.604†	1100.6	0.9706	mg/L	0.01560	0.9706	mg/L	0.01560	1.61%
Pb 220.353†	15743.3	2.014	mg/L	0.0179	2.014	mg/L	0.0179	0.89%
Sb 206.836†	3751.2	2.123	mg/L	0.0098	2.123	mg/L	0.0098	0.46%
Se 196.026†	1970.3	2.006	mg/L	0.0121	2.006	mg/L	0.0121	0.60%
Si 288.158†	3975.5	2.164	mg/L	0.0251	2.164	mg/L	0.0251	1.16%
Sn 189.927†	2924.1	0.9332	mg/L	0.00445	0.9332	mg/L	0.00445	0.48%
Sr 421.552†	294270.7	1.029	mg/L	0.0022	1.029	mg/L	0.0022	0.21%
Ti 334.903†	21389.5	0.9997	mg/L	0.00194	0.9997	mg/L	0.00194	0.19%
Tl 190.801†	4340.5	2.015	mg/L	0.0058	2.015	mg/L	0.0058	0.29%
V 292.402†	123995.5	1.003	mg/L	0.0081	1.003	mg/L	0.0081	0.81%
Zn 206.200†	1235.0	1.003	mg/L	0.0161	1.003	mg/L	0.0161	1.60%

Sequence No.: 31
Sample ID: CB 3
Analyst: BLW
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 1
Date Collected: 11/10/2008 3:24:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	140.0 kPa	0.50 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2031134.0	100.6	%	0.50				0.50%
ScR 361.383	144612.7	100.1	%	0.45				0.45%
Ag 328.068†	146.1	0.00087	mg/L	0.000481	0.00087	mg/L	0.000481	55.03%
Al 308.215†	-18.2	-0.01037	mg/L	0.023031	-0.01037	mg/L	0.023031	222.03%
As 188.979†	3.7	0.00287	mg/L	0.003585	0.00287	mg/L	0.003585	124.82%
B 249.677†	0.5	0.00029	mg/L	0.005962	0.00029	mg/L	0.005962	>999.9%
Ba 233.527†	-3.7	-0.00049	mg/L	0.000199	-0.00049	mg/L	0.000199	40.68%
Be 313.042†	32.4	0.00013	mg/L	0.000107	0.00013	mg/L	0.000107	84.32%
Ca 317.933†	-23.1	-0.00211	mg/L	0.001841	-0.00211	mg/L	0.001841	87.41%
Cd 228.802†	-11.3	-0.00024	mg/L	0.000114	-0.00024	mg/L	0.000114	46.88%
Co 228.616†	8.3	0.00016	mg/L	0.000012	0.00016	mg/L	0.000012	7.51%
Cr 267.716†	-5.5	-0.00127	mg/L	0.001347	-0.00127	mg/L	0.001347	105.85%
Cu 324.752†	31.1	0.00013	mg/L	0.000197	0.00013	mg/L	0.000197	151.26%
Fe 273.955†	-1.9	-0.00125	mg/L	0.004734	-0.00125	mg/L	0.004734	377.68%
K 766.490†	104.1	0.08672	mg/L	0.051295	0.08672	mg/L	0.051295	59.15%
Mg 279.077†	-0.1	-0.00010	mg/L	0.007721	-0.00010	mg/L	0.007721	>999.9%
Mn 257.610†	2.3	0.00006	mg/L	0.000231	0.00006	mg/L	0.000231	364.47%
Mo 202.031†	6.3	0.00144	mg/L	0.001524	0.00144	mg/L	0.001524	105.55%
Na 589.592†	262.5	0.1188	mg/L	0.00954	0.1188	mg/L	0.00954	8.03%
Na 330.237†	8.1	0.3491	mg/L	0.72940	0.3491	mg/L	0.72940	208.95%
Ni 231.604†	-1.7	-0.00151	mg/L	0.004711	-0.00151	mg/L	0.004711	312.45%
Pb 220.353†	-12.5	-0.00160	mg/L	0.000477	-0.00160	mg/L	0.000477	29.73%
Sb 206.836†	4.7	0.00266	mg/L	0.002546	0.00266	mg/L	0.002546	95.77%
Se 196.026†	3.5	0.00352	mg/L	0.000704	0.00352	mg/L	0.000704	20.00%
Si 288.158†	31.4	0.01705	mg/L	0.004420	0.01705	mg/L	0.004420	25.92%
Sn 189.927†	0.0	0.00000	mg/L	0.000720	0.00000	mg/L	0.000720	>999.9%
Sr 421.552†	32.2	0.00011	mg/L	0.000114	0.00011	mg/L	0.000114	101.72%
Ti 334.903†	-11.7	-0.00055	mg/L	0.001010	-0.00055	mg/L	0.001010	184.69%
Tl 190.801†	7.5	0.00352	mg/L	0.003758	0.00352	mg/L	0.003758	106.91%
V 292.402†	-23.6	-0.00019	mg/L	0.000203	-0.00019	mg/L	0.000203	109.40%
Zn 206.200†	-2.0	-0.00162	mg/L	0.002279	-0.00162	mg/L	0.002279	140.37%

Mercury Analysis Log

Analyst: DM

Instrument: CETAC

Date: 10·31·08

Page: 3 of 9

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
CSV	TWM	1x	4.41	%R = 110 ✓
CCB	↓		-0.01	✓
NW93 MB2	DMM		0.01	DEL CONFIRMS PREVIOUS HIT @ 31 ✓
" MB2SPK			2.46	%R = 123 High ✗
" F			-0.00	
" FDUP			0.01	NO RPD: Undetected ✓
" FSPK			1.19	%R = 119 ✓
" G				
" H				
" I				
" J	↓			↓
CCV	TWM		4.41	%R = 110 ✓
CCB	↓		-0.01	✓
STD 0.0	SMM			
" 0.1				
" 0.5				
" 1.0				
" 2.0				
" 5.0				
" 10.0				
ICV			8.46	Begin CLP %R = 106 ✓
ICB			-0.06	✓
CCV1			4.08	%R = 102 ✓
CCB1			-0.02	✓
CRA			0.11	✓
NW94 MB1			-0.00	✓
" MB1SPK			2.13	%R = 107 ✓
" A			0.11	
" ADUP			0.11	✓
NW04 MB1	↓	↓	0.01	✓

Chemical/Reagent ID:

10% $SnCl_2$: MP1567

14% NH_2OH/NaCl: MP1558

Standard ID:

Standard: 2541-15

ICV/CCV: 45-14

0208

Mercury Analysis Log

Analyst: DM

Instrument: CETAC

Date: 10.31.08

Page: 4 of 9

ARI Sample ID		Prep Code	Dilution	QC Data (ppb)	Comments	
NV04	MB1SPK	SMM	1X	2.12	%R=106	✓
"	A			0.01		
"	ADUP			0.02	No RPD: Undetected	✓
"	ASPK			1.07	%R=107	✓
CCV2				4.08	%R=102	✓
CCB2				-0.01		✓
NV04	B					
"	C					
"	D					
NV25R	MB1			0.00		✓
"	MB1SPK			2.15	%R=108	✓
"	A			0.35		
"	ADUP			0.48	Diff > 0.1	X
"	ASPK			1.46	%R=111	✓
NV61	MB1			-0.01		✓
"	MB1SPK			2.11	%R=106	✓
CCV3				4.09	%R=102	✓
CCB3				-0.01		✓
NV61	A					
NV66	MB1			0.00		✓
"	MB1SPK			2.16	%R=108	✓
"	A					
NV20	MB1			-0.00		✓
"	MB1SPK			2.12	%R=106	✓
"	A					
"	B					
"	C					
"	D					
CCV4				4.08	%R=102	✓
CCB4				-0.01		✓

Chemical/Reagent ID:

10% $SnCl_2$: MP1567

14% NH_2OH/NaCl: MP1558

Standard ID:

Standard: 2541-15

ICV/CCV: 45-14

ANALYTICAL RESOURCES INCORPORATED

Metals Data Review Checklist

Method: ICP ICP-MS GFA (CVA)

Analysis Date: 10-31-08

	Analyst 10-31 DM	Peer HH 10/31	Comment
Logbook:			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration:			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
Calibration Verification:			
ICV/CCV	✓	✓	
ICB/CCB	✓	✓	
Samples:			
RSD's & SD's	✓	✓	
Internal Standards	—	~~✓~~ HH 10/31	
Carry-over	—	✓	
Method QC:			
CRI/CRA	✓	✓	
ICSA/ICSAB	—	—	
Post Spikes/Serial Dilutions	—	—	
Analytic Spikes	—	—	
Matrix QC:			
SRM/LCS	✓	✓	NV93 MBRSPK DMM
Matrix Spikes	✓	✓	
Matrix Duplicates	✓	✓	NV25R ADUP SMM
Method Blanks	✓	✓	
Data Distribution:			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
Necessary Analysts Notes and CAF's	✓	✓	See CAFS

CETAC Hg Analysis Report - 08103100.DB - Friday, October 31, 2008, 3:29:41 PM

Analyst
Date Started Friday, October 31, 2008, 09:53:19
Worksheet ARI 10ppb CALIB
Comment

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	31-Oct-2008, 09:53	4.41	0.27	13700.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	31-Oct-2008, 09:55	-0.01	11.40	-27.60	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
NV93 MB2 DMM	31-Oct-2008, 09:56	0.01	6.38	15.70	1.00	
NV93 MB2SPK DMM	31-Oct-2008, 09:58	2.46	0.36	7640.00	1.00	-Hi %R
NV93 F DMM	31-Oct-2008, 10:00	-0.00	12.90	-11.20	1.00	
NV93 FDUP DMM	31-Oct-2008, 10:01	0.01	8.98	20.10	1.00	
NV93 FSPK DMM	31-Oct-2008, 10:03	1.19	0.36	3700.00	1.00	
NV93 G DMM	31-Oct-2008, 10:04	0.00	22.40	7.81	1.00	
NV93 H DMM	31-Oct-2008, 10:06	0.01	8.28	19.80	1.00	
NV93 I DMM	31-Oct-2008, 10:08	0.01	3.44	21.60	1.00	
NV93 J DMM	31-Oct-2008, 10:09	0.01	4.33	22.30	1.00	

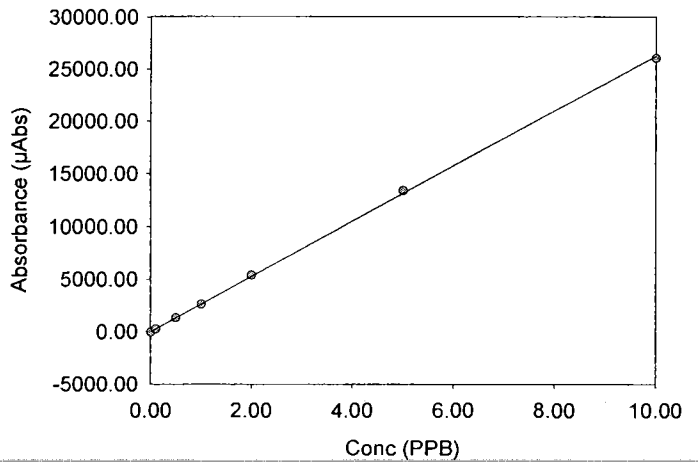
Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	31-Oct-2008, 10:11	4.41	0.26	13700.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	31-Oct-2008, 10:13	-0.01	13.80	-16.70	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
Calibration Zero	31-Oct-2008, 10:15	0.00	12.60	-14.00	1.00	
Standard #1	31-Oct-2008, 10:16	0.10	1.14	271.00	1.00	
Standard #2	31-Oct-2008, 10:18	0.50	0.58	1340.00	1.00	
Standard #3	31-Oct-2008, 10:20	1.00	0.43	2630.00	1.00	
Standard #4	31-Oct-2008, 10:21	2.00	0.36	5390.00	1.00	
Standard #5	31-Oct-2008, 10:23	5.00	0.35	13400.00	1.00	
Standard #6	31-Oct-2008, 10:25	10.00	0.38	26100.00	1.00	

SMM

Calibration Data



Int.	0.000
Slope	2627.184
Correlation	0.99989

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
ICV	31-Oct-2008, 10:28	8.46	0.54	22200.00	1.00	
ICB	31-Oct-2008, 10:29	-0.06	1.28	-159.00	1.00	

Begin CLP

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	31-Oct-2008, 10:31	4.08	0.30	10700.00	1.00	

Analyst
Date Started Friday, October 31, 2008, 10:33:06
Worksheet ARI 10ppb CALIB
Comment

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	31-Oct-2008, 10:33	-0.02	2.72	-63.40	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CRA	31-Oct-2008, 10:34	0.11	0.76	282.00	1.00	
NU49 MB1 SMM	31-Oct-2008, 10:36	-0.00	17.20	-8.95	1.00	
NU49 MB1SPK SMM	31-Oct-2008, 10:37	2.13	0.42	5590.00	1.00	
NU49 A SMM	31-Oct-2008, 10:39	0.11	0.84	277.00	1.00	
NU49 ADUP SMM	31-Oct-2008, 10:41	0.11	0.36	296.00	1.00	
NV04 MB1 SMM	31-Oct-2008, 10:42	0.01	4.16	24.40	1.00	
NV04 MB1SPK SMM	31-Oct-2008, 10:44	2.12	0.32	5570.00	1.00	
NV04 A SMM	31-Oct-2008, 10:45	0.01	3.35	20.80	1.00	
NV04 ADUP SMM	31-Oct-2008, 10:47	0.02	2.74	46.80	1.00	
NV04 ASPK SMM	31-Oct-2008, 10:49	1.07	0.37	2810.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	31-Oct-2008, 10:50	4.08	0.28	10700.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	31-Oct-2008, 10:52	-0.01	5.16	-32.60	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
NV04 B SMM	31-Oct-2008, 10:54	0.01	8.78	38.10	1.00	
NV04 C SMM	31-Oct-2008, 10:55	0.02	3.95	61.90	1.00	
NV04 D SMM	31-Oct-2008, 10:57	0.02	2.35	65.10	1.00	
NV25R MB1 SMM	31-Oct-2008, 10:58	0.00	80.90	0.47	1.00	
NV25R MB1SPK SMM	31-Oct-2008, 11:00	2.15	1.11	5640.00	1.00	
NV25R A SMM	31-Oct-2008, 11:02	0.35	0.55	932.00	1.00	
NV25R ADUP SMM	31-Oct-2008, 11:03	0.48	0.79	1250.00	1.00	D:FK70.1
NV25R ASPK SMM	31-Oct-2008, 11:05	1.46	0.10	3840.00	1.00	
NV61 MB1 SMM	31-Oct-2008, 11:07	-0.01	14.10	-15.70	1.00	
NV61 MB1SPK SMM	31-Oct-2008, 11:08	2.11	0.47	5530.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	31-Oct-2008, 11:10	4.09	0.34	10800.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	31-Oct-2008, 11:12	-0.01	1.11	-37.40	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
NV61 A SMM	31-Oct-2008, 11:13	0.91	0.43	2400.00	1.00	
NV66 MB1 SMM	31-Oct-2008, 11:15	0.00	22.30	10.20	1.00	
NV66 MB1SPK SMM	31-Oct-2008, 11:16	2.16	0.57	5680.00	1.00	
NV66 A SMM	31-Oct-2008, 11:18	0.37	0.65	974.00	1.00	
NW20 MB1 SMM	31-Oct-2008, 11:20	-0.00	34.90	-9.09	1.00	
NW20 MB1SPK SMM	31-Oct-2008, 11:21	2.12	0.50	5570.00	1.00	
NW20 A SMM	31-Oct-2008, 11:23	0.09	1.02	246.00	1.00	
NW20 B SMM	31-Oct-2008, 11:24	0.10	0.46	266.00	1.00	
NW20 C SMM	31-Oct-2008, 11:26	0.05	1.46	137.00	1.00	
NW20 D SMM	31-Oct-2008, 11:28	0.06	1.25	145.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	31-Oct-2008, 11:29	4.08	0.32	10700.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	31-Oct-2008, 11:31	-0.01	4.31	-34.40	1.00	

Mercury Standard Prep Log

Prep Code: SMM Instrument: CETAC

Analyst: DM Date: 10.30.06

Bath Temp: 95°C Start Time: 0950 End Time: 1020

Standard ID	Stock ID	Volume Added (mL)	Final Volume (mL)	Standard Conc. (µg/L)	Number Made
STD0	—	0.00	100.0	0.0	2
STD1	2541-15	0.01		0.1	2
STD2		0.05		0.5	2
STD3		0.10		1.0	2
STD4		0.20		2.0	2
STD5		0.50		5.0	2
STD6		1.00		10.0	2
CRA		0.01		0.1	1
ICB/CCB	—	0.00		0.0	2
ICV/LCS	4514	0.16		8.0	2
CCV		0.08	100.0	4.0	2

Chemical/Reagent ID:

HNO_3: I4397 H_2SO_4: I4504 HCl: —

5% $K_2S_2O_8$: MP1561 5% $KMnO_4$: MP1560

Prep Code: _____ Instrument: _____

Analyst: _____ Date: _____

Bath Temp: _____ Start Time: _____ End Time: _____

Standard ID	Stock ID	Volume Added (mL)	Final Volume (mL)	Standard Conc. (µg/L)	Number Made
STD0		0.00			
STD1					
STD2		0.05			
STD3		0.10			
STD4		0.20			
STD5		0.50			
STD6		1.00			
CRA					
ICB/CCB		0.00			
ICV/LCS					
CCV					

Chemical/Reagent ID:

HNO_3: _____ H_2SO_4: _____ HCl: _____

5% $K_2S_2O_8$: _____ 5% $KMnO_4$: _____

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Mercury Digestion Log

Prep Code: 5mm Matrix: Soil
Analyst: DM Date: 10-24-08
Bath Temp: 95°C Start Time: 1200 End Time: 1230

ARI Sample ID	Sample Bottle #	BOD Bottle #	pH<2	Initial Weight (g) ~~Volume (mL)~~	Final Volume (mL)	# $KMnO_4$ Aliquots	CL P	Comments
NV61 A	2	V15	—	0.208	100.0	1 1 4	Y	
" MB1	—	P17	—	—		1	Y	
" MB1SPK	—	K11	—	—		1	Y	
NV86 A	1	K22	—	0.269		1 1 3	N	
" AOUP	1	N18	—	0.268		1		
" ASPK	1	N21	—	0.268		1		
" B	1	C1	—	0.245		1		
" C	1	T23	—	0.219		1		
" D	1	X23	—	0.266		1		
" E	1	I4	—	0.281		1		
" F	1	A9	—	0.259		1		
" G	1	E9	—	0.232		1		
" H	1	X3	—	0.276		1		
" I	1	F6	—	0.251		1		
" J	1	P5	—	0.269		1		
" MB	—	T15	—	—		1		
" MBSPK	—	F12	—	—		1	N	
NV66 A	1	T8	—	0.224		1 1 2	Y	
" MB1	—	A11	—	—		1	Y	
" MB1SPK	—	E24	—	—	100.0	1	Y	
				10-24-08 DM				

Chemical/Reagent ID:

HNO_3: I4397 H_2SO_4: I4504 HCl: —

5% $K_2S_2O_8$: MP1561 5% $KMnO_4$: MP1560 Digest Tube Lot: —

0214

Metals Prep Logs

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NV61

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SPIKING LOG

Analyst: DM

Date: 10-24-08

Final Volume 50

Final Volume (Hg): 100

Sample ID NV61 MBISPK

		Prepcode:	SwL		
		Spike Solution:	ICP Routine	ICP No GFA	GFA
		Standard No.:	25236		
		Vol Added (mL):	1.0		
	Ag		50 ✓		2.0
S	Al		200	200	
T	As		200 ✓		10
O	Ba		200	200	
C	Be		50	50	
K	Ca		1000	1000	
	Cd		50 ✓		2.0
	Co		50	50	
C	Cr		50 ✓	50	
O	Cu		50 ✓	50	
N	Fe		200	200	
C	K		1000	1000	
E	Mg		1000	1000	
N	Mn		50	50	
T	Na		1000	1000	
R	Ni		50	50	
A	Pb		200 ✓		10
T	Se		200		10
I	Sr		50	50	
O	Tl		200		10
N	V		50	50	
	Zn		50 ✓	50	

	ICP-MS #1	ICP-MS #2	ICP-MS Minerals
Ag	25		
Al			500
As	25		
Ba	25		
Be	25		
Ca			500
Cd	25		
Co	25		
Cr	25		
Cu	25		
Fe			500
K			500
Mg			500
Mn	25		
Mo		25	
Na			500
Ni	25		
Pb	25		
Sb		25	
Se	80		
Th	25		
U	25		
V	25		
Zn	80		

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std No.
Hg		CVA	1.0		
Hg MBSPK	5mm	CVA	1.0	0.2	2514-4
Sb		ICP	2000		
Sb		GFA	100		
B		ICP	500		
Mo		ICP	500		
Si		ICP	10000		
Sn		ICP	500		
Ti		ICP	2000		

Additional Elements:

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std. No.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Mercury Digestion Log

Prep Code: Smm Matrix: Soil
Analyst: DM Date: 10-24-08
Bath Temp: 95°C Start Time: 1200 End Time: 1230

ARI Sample ID	Sample Bottle #	BOD Bottle #	pH<2	Initial Weight (g) ~~Volume (mL)~~	Final Volume (mL)	# $KMnO_4$ Aliquots	CL P	Comments
NV61 A	2	V15	—	0.208	100.0	1 1/4	Y	
" MB1	—	P17	—	—		1	Y	
" MB1SPK	—	K11	—	—		1	Y	
NV86 A	1	K22	—	0.269		1 1/3	N	
" ADUP	1	N18	—	0.268		1		
" ASPK	1	N21	—	0.268		1		
" B	1	C1	—	0.245		1		
" C	1	T23	—	0.219		1		
" D	1	X23	—	0.266		1		
" E	1	I4	—	0.281		1		
" F	1	A9	—	0.259		1		
" G	1	E9	—	0.232		1		
" H	1	X3	—	0.276		1		
" I	1	F6	—	0.251		1		
" J	1	P5	—	0.269		1		
" MB	—	T15	—	—		1		
" MBSPK	—	F12	—	—		1	N	
NV66 A	1	T8	—	0.224		1 1/2	Y	
" MB1	—	A11	—	—		1	Y	
" MB1SPK	—	E24	—	—	100.0	1	Y	

10-24-08 DM

Chemical/Reagent ID:
HNO_3: I4397 H_2SO_4: I4504 HCl: —
5% $K_2S_2O_8$: MP1561 5% $KMnO_4$: MP1560 Digest Tube Lot: —

0217

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Digestion Log

Analyst: DM Date: 10.24.08

Matrix: Soil Block Temp: 90°C

ARI Sample ID	Btl #	pH<2	Prep Code: SW1 Initial Wt (g) ~~Vol (mL)~~	Prep Code: SW1 Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
NV61 A	2	–	1.032	50.0			
" MB1	–	–	–				
" MB1SPK	–	–	–				
NV86 A	1	–	1.006				
" ADUP	1	–	1.006				
" ASPK	1	–	1.004				
" B	1	–	1.083				
" C	1	–	1.032				
" D	1	–	1.059				
" E	1	–	1.034				
" F	1	–	1.023				
" G	1	–	1.090				
" H	1	–	1.020				
" I	1	–	1.029				
" J	1	–	1.046				
" MB	–	–	–				
" MBSPK	–	–	–				
NV04 A	1	–	1.023				
" ADUP	1	–	1.020				
" ASPK	1	–	1.022				
" B	1	–	1.043				
" C	1	–	1.016				
" D	1	–	1.089				
" MB1	–	–	–				
" MB1SPK	–	–	–	50.0			

Chemical/Reagent ID:

HNO_3: MP1556 | I4597 HCl: I4398 H_2O_2: I4524 Tube Lot #: ~~A803L5~~ A805LS309

DM 10/24/08

0218

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Metals Total Solids

Oven in:
Analyst: DM Date: 10-27-08 Time: 1015 Temp: 100°C

Oven out:
Analyst: DM Date: 10-28-08 Time: 0910 Temp: 101°C

ARI Sample ID		Tare Weight (g)	Tare + Sample Wet (g)	Tare + Sample Dry (g)	Comments
NV66	A	1.018	10.013	4.550	
NV61	A	1.026	10.202	8.421	
NV66	A	0.981	10.117	7.699	
"	B	1.041	10.654	8.002	
"	C	1.032	10.554	7.934	
"	D	1.008	10.749	10.004	
"	E	1.038	10.619	9.912	
"	F	1.041	10.012	9.456	
"	G	1.015	10.138	8.215	
"	H	1.036	10.977	9.912	
"	I	1.022	10.317	9.370	
"	J	1.005	10.119	9.044	
			10-27-08 DM		

General Chemistry Analysis
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NV61

prepared
by

Analytical Resources, Inc.

MS/MSD RESULTS-CONVENTIONALS
NV61-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/04/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/21/08
Date Received: 10/21/08

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: NV61A Client ID: EB-SE05-A-081021						
Total Organic Carbon	11/01/08	Percent	1.75	3.82	1.71	121.1%

REPLICATE RESULTS-CONVENTIONALS
NV61-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/04/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/21/08
Date Received: 10/21/08

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: NV61A Client ID: EB-SE05-A-081021					
Total Solids	10/22/08	Percent	82.90	80.10 82.70	1.9%
Total Organic Carbon	11/01/08	Percent	1.75	1.79 2.23	13.8%

LAB CONTROL RESULTS-CONVENTIONALS
NV61-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/04/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon	11/01/08	Percent	0.500	0.500	100.0%

METHOD BLANK RESULTS-CONVENTIONALS
NV61-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/04/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	10/22/08	Percent	< 0.01 U
Total Organic Carbon	11/01/08	Percent	< 0.020 U

STANDARD REFERENCE RESULTS-CONVENTIONALS
NV61-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/04/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon NIST #8704	11/01/08	Percent	3.79	3.35	113.1%

General Chemistry Analysis
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NV61

prepared
by

Analytical Resources, Inc.

SAMPLE RESULTS-CONVENTIONALS
NV61-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 11/04/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/21/08
Date Received: 10/21/08

Client ID: EB-SE05-A-081021
ARI ID: 08-28611 NV61A

Analyte	Date	Method	Units	RL	Sample
Total Solids	10/22/08 102208#1	EPA 160.3	Percent	0.01	82.90
Total Organic Carbon	11/01/08 110108#1	Plumb,1981	Percent	0.020	1.75

RL Analytical reporting limit
U Undetected at reported detection limit

General Chemistry Analysis
Instrument Raw Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NV61

prepared
by

Analytical Resources, Inc.

W
10-24-08

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

SOLIDS *(dry at 104 (12-24 hr) then combust at 550 (30 min))*

DATE: 10/22/2008

ANALYST: CDE 10:14

Batch drying time		
record times as mm/dd/yy hh:mm		
10/22/08 CDE	time in oven	18:28
10/23/08 CDE	time out	9:53
elapsed hrs =	#VALUE!	#VALUE!

TS (%) calculated as:
Final dry wt (g) = (Dry Wt - Tare Wt)
TS = (Final Dry Wt)/ (grams Sample-Tare)

TVS (mg/kg dry wt) calculated as:
Final ash wt (g) = (min ash wt - tare wt)
*TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000*
if ash wt > dry wt, "Chk for Err"
*if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000*

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams) 1			dry Wt (g)	TS (%)	ASH WT 550C (grams) 1	2		Ash Wt (g)	TVS (mg/kg)	(%)
	Cal Date -->	10/22/2008	10/22/2008	10/23/2008										
	Time & Initials -->	17:14 CDE	16:28 CDE	10:14 CDE										
	Cal Wt (g) 10.0000	9.9998	9.9999	9.9998										
	record weights to 4 places	*Cal OK!*	*Cal OK!*	*Cal OK!*										
Blank		0.0000	1.0939	1.0941			0.00							
NT39 B1		3.7539	1.1072	3.0828			1.98	74.6%						
NT39 B1 dup		4.0127	1.0984	3.2794			2.18	74.8%						
							RPD =	0.26%				RPD =	NA	
NT39 B1 trp		3.7111	1.0976	3.0568			1.96	75.0%						
							RSD =	0.22%				RSD =	NA	
NU64 A1		4.7770	1.1100	2.6326			1.52	41.5%						
NU64 A1 dup		4.3079	1.1197	2.4235			1.30	40.9%						
							RPD =	1.52%				RPD =	NA	
NU64 A1 trp		4.4873	1.0965	2.5113			1.41	41.7%						
							RSD =	1.05%				RSD =	NA	
NU64 B1		6.9639	1.1177	5.4739			4.36	74.5%						
NU64 E1		6.2789	1.1047	5.6251			4.52	87.4%						
NU64 F1		6.0808	1.1610	5.0494			3.89	79.0%						
NU64 I 1		7.4525	1.0976	5.2276			4.13	65.0%						
NU64 J 1		7.1501	1.1293	5.7654			4.64	77.0%						
NU64 M1		7.6507	1.1034	6.2266			5.12	78.2%						
NU64 N1		6.3976	1.0977	5.3513			4.25	80.3%						
NV57 A1		5.7305	1.1106	4.7934			3.68	79.7%						
NV57 A1 dup		4.8091	1.1175	4.0604			2.94	79.7%						
							RPD =	0.00%				RPD =	NA	
NV57 A1 trp		5.4458	1.1323	4.6129			3.48	80.7%						
							RSD =	0.70%				RSD =	NA	
NV58 A1		2.4015	1.1459	1.9899			0.84	67.2%						

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

SOLIDS *(dry at 104 (12-24 hr) then combust at 550 (30 min))*

DATE: 10/22/2008

ANALYST: CDE 10:14

Batch drying time		
record times as mm/dd/yy hh:mm		
10/22/08 CDE	time in oven	18:28
10/23/08 CDE	time out	9:53
elapsed hrs =	#VALUE!	#VALUE!

TS (%) calculated as:
Final dry wt (g) = (Dry Wt - Tare Wt)
TS = (Final Dry Wt)/ (grams Sample-Tare)

TVS (mg/kg dry wt) calculated as:
Final ash wt (g) = (min ash wt - tare wt)
*TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000*
if ash wt > dry wt, "Chk for Err"
*if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000*

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams) 1			dry Wt (g)	TS (%)	ASH WT 550C (grams) 1	2		Ash Wt (g)	TVS (mg/kg)	TVS (%)
NV58 A1 dup		2.3082	1.0691	1.8842			0.82	**65.8%**						
							RPD =	2.16%				RPD =	NA	
NV58 A1 trp		2.2492	1.0710	1.8346			0.76	**64.8%**						
							RSD =	1.84%				RSD =	NA	
NV61 A2		5.4553	1.1225	4.7134			3.59	**82.9%**						
NV61 A2 dup		5.3399	1.0609	4.4876			3.43	**80.1%**						
							RPD =	3.43%				RPD =	NA	
NV61 A2 trp		5.8118	1.0896	4.9953			3.91	**82.7%**						
							RSD =	1.91%				RSD =	NA	

10-22-08 COS 17:14

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

SOLIDS *(dry at 104 (12-24 hr) then combust at 550 (30 min))*

DATE: 10-22-08

ANALYST: COS 10:14

Batch drying time

record times as mm/dd/yy hh:mm

10-22-08 COS time in oven 1628

10-23-08 COS time out 953

elapsed hrs = 0.0 *< 12 hr*

TS (%) calculated as:

Final dry wt (g) = (Dry Wt - Tare Wt)

TS = (Final Dry Wt)/ (grams Sample-Tare)

TVS (mg/kg dry wt) calculated as:

Final ash wt (g) = (min ash wt - tare wt)

*TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000*

if ash wt > dry wt, "Chk for Err"

*if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000*

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams) 1			dry Wt (g)	TS (%)	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	TVS (mg/kg)	(%)
Cal Date -->		10-22-08	10-22-08	10-23-08										
Time & Initials -->		[illegible] COS	1628 COS	90:14 COS										
Cal Wt (g) 10.0000		9.9978	9.9999	9.9998										
record weights to 4 places														
Blank	1	Ø	1.0936	1.0941										
NT39 B1	2	3.7539	1.1072	3.0828										
↓ DP B1	3	4.0127	1.0984	3.2794										
↓ TP B1	4	3.7111	1.0976	3.0568										
NU64 A1	5	4.7770	1.1100	2.6326										
↓ DP A1	6	4.3079	1.1197	2.4235										
↓ TP A1	7	4.4873	1.0965	2.5113										
B1	8	6.9639	1.1177	5.4739										
E1	9	6.2789	1.1047	5.6251										
F1	10	6.0808	1.1610	5.0494										
I1	11	7.4525	1.0976	5.2276										
J1	12	7.1501	1.1293	5.7654										
↓ M1	13	7.6507	1.1034	6.2266										
↓ N1	14	6.3976	1.0977	5.3513										
NV57 A1	15	5.7305	1.1106	4.7934										
↓ DP A1	16	4.8091	1.1175	4.0604										
↓ TP A1	17	5.4458	1.1323	4.6129										
NV58 A1	18	2.4015	1.1459	1.9899										
↓ DP A1	19	2.3082	1.0691	1.8842										
↓ TP A1	20	2.2492	1.0710	1.8346										
NV61 A2	21	5.4553	1.1225	4.7134										
↓ DP A2	22	5.3399	1.0609	4.4876										
↓ TP A2	23	5.8118	1.0896	4.9953										

W
10-24-08

TOC Solids Prep Log

DATE:	10/22/2008
ANALYST:	CDE 12:14

acid purging to remove IC and drying at 70°C for TOC analysis

General notes regarding prep method and samples (identify the acid used)

make no entry to shaded cells, they are calculated

Sample ID		IC Test	Gravimetric Data (grams)			%	*Sample description & notes*
ARI #	Client	+ / -	Tare Wt.	Wet wt.	70°C dry wt	Solids	*(homogeneity and exclusions)*
Blank			12.8551		12.8557	0.6 mg	
NT39 B1		-	12.8041	16.0812	15.3824	78.68%	
NT39 B1 DUP		-	12.7888	15.6223	15.0402	79.46%	
NT39 B1 TRIP		-	12.8841	15.7235	15.1271	79.00%	
NV57 A1			12.7741	17.8323			
NV57 A1 DUP			12.8048	17.5247			
NV57 A1 TRIP			12.8046	17.8404			
NV61 A2		-	12.8264	17.0543	16.4223	85.05%	
NV61 A2 DUP		-	12.8639	16.4524	15.9591	86.25%	
NV61 A2 TRIP		-	12.8147	16.6210	15.9856	83.31%	

Ø 10-23-08 CDC

Analytical Resources, Incorporated
Analytical Chemists and Consultants

TOC Solids Preparation Log

Acid purge to remove IC and drying 70 ℃ for TOC anal ysis
Add general notes regarding samples and preparation and identify the acid used

Analyst CDC Date 10-22-08 12:14

Sample Idenification		IC	Gravimetric Data			% Solids	Sample description & notes
ARI #	Client ID	Test	Tare	Wet	70 ℃		
Blank			12.8551	Ø	12.8557		
NT39 B'		-	12.8041	16.0812	15.3824		
↓ DP B'		-	12.7888	15.6223	15.0402		
↓ TP B'		-	12.8841	15.7235	15.1271		
NV57A'		+	12.7741	17.8323	Ø		Sand & Shells
↓ DP A'		+	12.8048	17.5247			
↓ TP A'		+	12.8046	17.8404			
~~NV58A'~~		-	12.8897	14.3883	13.9994		Wood & Twigs
~~↓ DP A'~~		-	12.7731	14.4477	14.0551		Not Requested 10-24-08 (4)
~~↓ TP A'~~		-	~~12.8806~~	~~14.8665~~	~~14.3335~~		
NV61 A²		-	12.8264	17.0543	16.4223		Rocks & clay
↓ DP A²		-	12.8639	16.4524	15.9591		
↓ TP A²		-	12.8147	16.6210	15.9856		

10-22-08 CDC

0233

11-3-08

TOC, Solids Data Analysis, DC-190

DATE: 11/1/08 13:55

Mode: NPOC Inlet: Boat ANALYST: RR

Spike Std = 2,000 ppm C

Calibration Data

Calibration Standard Source: ARI # 0086 - 06 Conc (ppm): 2,000

Observed Values (µg/g)	mean	Cal Factor

Verification Standard Source: ERA 0852 - 08 - 02 Conc (ppm): 5,000

Standard Reference Material Source: NIST 8704 Conc (ppm): 33,510

Blank Data

System Blanks (enter "observed C")

Replicate Determinations						Mean	condition
Replicate	1	2	3	4	5		
ppm	23.92	12.92	22.62			19.82	OK !

Historical Blank Limits

mean	stdev
17.8	7.23
LBL	-3.9
UBL	39.5

Silica Blanks (enter "corrected C" at end of run)

Replicate	1	2	3	4	5	Mean	condition

Sample Data (Entered data must match the Dohrmann output report !)

"Corrected C" (no dilution) = "Observed C" - Mean Blank

"Corrected C" (with dilution) = ("Observed C" - (Mean silica Blank * %Silica)) * Dilution Factor

Sample ID	Dilution Data: Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor	Spike (µL Std)	Combustion Data: Burn wt. (mg)	Observed C (ppm C)	Corrected C (ppm C)	
ICV				1.00		10.0	5025	5,005	100.10%
Blank				1.00		10.0	23.92		Blank OK
NIST 8704				1.00		3.5	37920	37,900	113.10%
NS67 B2				1.00		1.9	41080	41,060	Range OK!
NS67 B2 dup				1.00		1.7	42590	42,570	RPD=3.6%
NS67 B2 trp				1.00		1.8	49390	49,370	RSD=10%
~~NS67 B2 ms~~			-	~~1.00~~	~~20~~	~~1.2~~	~~100800~~	~~100,780~~	~~Range OK!~~
~~Spike =~~	~~0.04~~	~~mg C to~~	~~1.2~~	~~mg samp=~~	~~33,333~~	~~ppm~~		~~170%~~	
NS67 B2 ms				1.00	20	0.9	76430	76,410	Range OK!
Spike =	0.04	mg C to	0.9	mg samp=	44,444	ppm		80%	
~~NS67 D~~			-	~~1.00~~		~~1.3~~	~~126300~~	~~126,280~~	~~Offscale, dilute~~
NS67 E2				1.00		1.7	43260	43,240	Range OK!
NS67 D				1.00		0.9	119300	119,280	Range OK!
CCV				1.00		10.0	4872	4,852	97.04%
Blank				1.00		10.0	12.92		Blank OK
~~NV61 A2~~				1.00		2.8	17120	~~17,100~~	Range OK!
~~NV61 A2~~ dup				1.00		2.5	17490	~~17,470~~	RPD=2.1%
~~NV61 A2~~ trp				~~1.00~~		~~2.7~~	~~21720~~	~~21,700~~	RSD=13.6%
NV61 A2 ms				1.00	10	1.2	37270	~~37,250~~	Range OK!
Spike =	0.02	mg C to	1.2	mg samp=	16,667	ppm		121%	
NIST 8704				1.00		3.2	35380	35,360	105.52%
CCV				1.00		10.0	4900	4,880	97.60%
Blank				1.00		10.0	22.62		Blank OK

Analytical Resources, Incorporated
Analytical Chemists and Consultants

PR 11/1/08

TOC Solids Sample Run Log

page 1 of 1

Set-Up Parameters MODE: NPOC		INLET: BOAT
Standards:	Source	Conc (ppm)
Calibration:	ARI 0086-06	2000
Verification:	ERA 0852-08-02	5000
SRM:	NBS 8704	33510

13:55

Sample Sequence:

Sample ID	Dilution Data (mg)		Burn Wt	Matrix Spike Data		Comments
	Sample	+ Silica Gel	mg	mg/L	µL added	
ICV			10			
ICB			10			
NBS 8704			3.5			
NS67 B2			1.9			
B2 dup			1.7			
B2 trip			1.8			
B2 MS			1.2	2000	20	
B2 MS			0.9	2000	20	
D			1.3			
E2			1.7			
D			0.9			
CCV			10			
CCB			10			
NV61 A2			2.8			
A2 dup			2.5			
A2 trip			2.7			
A2 MS			1.2	2000	10	
NBS 8704			3.2			
CCV			10			
CCB			10			

PR 11/1/08

0235

Sample mass (mg) = 10.
1. NPOC = 5025. ug/g
14:10:21 Sat Nov 1, 2008
Sample mass (mg) = 10.
1. NPOC = 24.32 ug/g
Sample mass (mg) = 10.
2. NPOC = 26.81 ug/g
Sample mass (mg) = 10.
3. NPOC = 20.61 ug/g
AVG NPOC = 23.92 +/- 3.119 % std dev: 13.04
14:27:23 Sat Nov 1, 2008
Sample mass (mg) = 3.5
1. NPOC = 37920. ug/g
14:48:12 Sat Nov 1, 2008
Sample mass (mg) = 1.9
1. NPOC = 41080. ug/g
14:57:50 Sat Nov 1, 2008
Sample mass (mg) = 1.7
1. NPOC = 42590. ug/g
15:11:44 Sat Nov 1, 2008
Sample mass (mg) = 1.8
1. NPOC = 49390. ug/g
15:37:34 Sat Nov 1, 2008
Sample mass (mg) = 1.2
1. NPOC = 100800. ug/g
15:47:10 Sat Nov 1, 2008
Sample mass (mg) = 0.9
1. NPOC = 76430. ug/g
16:09:26 Sat Nov 1, 2008
Sample mass (mg) = 1.3
1. NPOC = 126300. ug/g
16:15:56 Sat Nov 1, 2008
Sample mass (mg) = 1.7
1. NPOC = 43260. ug/g
16:20:59 Sat Nov 1, 2008
Sample mass (mg) = 0.9
1. NPOC = 119300. ug/g
17:44:04 Sat Nov 1, 2008
Sample mass (mg) = 10.
1. NPOC = 4872. ug/g
18:06:40 Sat Nov 1, 2008
Sample mass (mg) = 10.
1. NPOC = 12.92 ug/g
18:12:28 Sat Nov 1, 2008
Sample mass (mg) = 2.8
1. NPOC = 17120. ug/g
18:19:06 Sat Nov 1, 2008
Sample mass (mg) = 2.5
1. NPOC = 17490. ug/g
18:27:17 Sat Nov 1, 2008
Sample mass (mg) = 2.7
1. NPOC = 21720. ug/g
18:31:53 Sat Nov 1, 2008
Sample mass (mg) = 1.2
1. NPOC = 37270. ug/g
18:37:59 Sat Nov 1, 2008
Sample mass (mg) = 3.2
1. NPOC = 35380. ug/g
18:44:23 Sat Nov 1, 2008
Sample mass (mg) = 10.
1. NPOC = 4900. ug/g
18:59:46 Sat Nov 1, 2008
Sample mass (mg) = 10.

11/1/08

Analytical Resources, Incorporated
Analytical Chemists and Consultants

October 24, 2008

Joy Dunay
Anchor Environmental
1423 3rd Avenue, Suite 300
Seattle, WA 98101

RE: 040289-02 Eddon Boatyard
ARI Job No. NU79

Dear Joy:

Please find enclosed the original chain of custody documentation and the final data package for samples from the project referenced above.

Sample receipt and details of the analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Susan Dunnihoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures

cc: eFile NU79

SD/sdrd

Chain of Custody Documentation

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NU79

Prepared
By

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: Nu61	Turn-around Requested: 72 hr	Page: 1 of 1	
ARI Client Company: Anchor	Phone: 206 287 9130	Date: 10/15/08	Ice Present?
Client Contact: Joy Danay		No. of Coolers:	Cooler Temps:
Client Project Name: Eddon Boatyard			
Client Project #: 040289-02	Samplers: DG, JP		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Porewater TBT	mercury	TOC	Total Solids	SMS metals	SMS SVOC	SMS PCB	Grain Size	Notes/Comments
EB-SE-03-Z-081015	10/15	1340	Sed	6	X	X							
EB-SE-03-ZZ-081015	10/15	1340	Sed	1	X	X							Archive
	↓												
EB-SE-03-Z-081015-1		1300	Sed	2	X	X							Hold, Grab-1
													Freeze in 6 days

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
will call to confirm 10/16 morning	Printed Name: David Gillingham	Printed Name: Jonathon Walter	Printed Name:	Printed Name:
	Company: Anchor	Company: ARI	Company:	Company:
	Date & Time: 10/15/08 1720	Date & Time: 10/15/08 1720	Date & Time:	Date & Time:

2000

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Anchor Project Name: Eddon Boatyard

COC No: _____ Delivered by: Hand

Assigned ARI Job No: NU61 Tracking No: _____

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO
Record cooler temperature (recommended 2.0-6.0 °C for chemistry	9.4	°C

Cooler Accepted by: JW Date: 10/15/08 Time: 1720

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?	YES	(NO)
What kind of packing material was used?	ICE	
Was sufficient ice used (if appropriate)?	YES	(NO)
Were all bottles sealed in individual plastic bags?	YES	(NO)
Did all bottle arrive in good condition (unbroken)?	(YES)	NO
Were all bottle labels complete and legible?	(YES)	NO
Did all bottle labels and tags agree with custody papers?	(YES)	NO
Were all bottles used correct for the requested analyses?	(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation checklist)	YES	(NO)
Were all VOC vials free of air bubbles? (NA)	YES	NO
Was sufficient amount of sample sent in each bottle?	(YES)	NO

Samples Logged by: JW Date: 10/15/08 Time: 1735

*** Notify Project Manager of discrepancies or concerns ****

Explain discrepancies or negative responses:

By: Date:

0003

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: NL79 ~~-NL61~~	Turn-around Requested:	Page:	of
ARI Client Company: ANCHOR	Phone:	Date:	Ice Present?
Client Contact: DUNAY, JOY		No. of Coolers:	Cooler Temps:
Client Project Name: EDDON BOATYARD			
Client Project #: 04-0289-02	Samplers:		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: TBT								Notes/Comments
Composite of A+~~B~~C	10/16/08	12:22	H_2O	1	X								

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name:	Printed Name: Jonathon Walter	Printed Name:	Printed Name:
	Company:	Company: ARI	Company:	Company:
	Date & Time:	Date & Time: 10/16/08 1240	Date & Time:	Date & Time:

0004

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Case Narrative

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NU79

Prepared
By

Analytical Resources, Inc.

Case Narrative

Client: Anchor Environmental
Project: 040289-02 Eddon Boatyard
ARI Job Nos. NU79

Sample receipt

Three sediment samples were received by Analytical Resources on October 15, 2008 at a cooler temperature of 9.4°C measured by IR thermometer. Samples were well-iced, in good condition and received within a short time of sampling. Samples were logged under ARI Job NU61 for bulk analysis and pore water extractions, with two samples on hold.

On 10/16, ARI was instructed to composite samples **EB-SE-03-Z-081015** and **EB-SE-03-Z-081015-1** for analysis. As the **EB-SE-03-Z-081015** sample aliquots were already weighed out for the pore water, equal amounts were weighed out from **EB-SE-03-Z-081015-1** and the resulting pore waters composited, and analyzed under ARI Job NU79 reported here.

The sample composite was named "Composite of A&C" by the Geotechnical Laboratory.

TBT by SW8270-SIM

The sample was extracted and analyzed within the method recommended holding times.

Initial and continuing calibrations were within method requirements. Internal standard areas were within limits.

The method blank was clean at the reporting limit. The LCS recoveries were within limits.

Surrogates recoveries were within ARI limits.

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U	Indicates that the target analyte was not detected at the reported concentration
*	Duplicate RPD is not within established control limits
B	Reported value is less than the CRDL but ≥ the Reporting Limit
N	Matrix Spike recovery not within established control limits
NA	Not Applicable, analyte not spiked
H	The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
L	Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U	Indicates that the target analyte was not detected at the reported concentration
*	Flagged value is not within established control limits
B	Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
J	Estimated concentration when the value is less than ARI's established reporting limits
D	The spiked compound was not detected due to sample extract dilution
NR	Spiked compound recovery is not reported due to chromatographic interference
E	Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
S	Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
NA	The flagged analyte was not analyzed for
NS	The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.

F Samples were frozen prior to particle size determination

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

LCS SOLUTIONS

9/4/2008

LABE	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
1	1534-5	PCB	20	MEOH	08/26/09
2	1472-3	BCOC PEST	10	ACETONE	07/20/08
3	1517-1	PEST	02/04/20	ACETONE	05/15/09
4	1515-1	LOW PEST	0.2/0.4/2	ACETONE	01/24/09
5	1537-1	EPH	1500	MECL2	08/16/09
6*	1456-3	PCP	12.5	ACETONE	04/18/09
7	1537-3	ABN	100	ACETONE	08/01/09
8	1487-2	TBT	10	MECL2	12/15/08
9	1493-3	PORE TBT	.25/.5	MECL2	12/15/08
10	1537-2	ABN ACID	100/200	MEOH	04/10/09
11	1526-1	TPHD	15000	ACETONE	06/25/09
12	1533-1	ABN BASE	200	ACETONE	07/01/09
13*	1427-3	LOW PCB	2	ACETONE	10/11/08
14	1480-2	LOW ABN ACID	10/20	MEOH	10/09/08
15*	1452-1	SIM PNA	15/75	MEOH	04/09/09
16	1502-2	DIOXANE	100	MEOH	02/20/09
17	1516-2	1248 PCB	20	ACETONE	05/07/09
18	1514-4	LOW SIM PNA	1.5/7.5	ACETONE	04/24/09
19	1517-3	AK103	7500	MECL2	12/29/08
20	1490-4	PNA	100	MEOH	01/10/09
21*	1414-4	SKY/BHT	100	MEOH	04/08/09
22	1539-1	HERB	12.5/12500	MEOH	08/31/09
23	1505-1	LOW ABN BASE	20	MEOH	03/20/09
24	1504-4	LOW ABN	10	ACETONE	10/01/08
25	1481-1	DIPHENYL	100	MEOH	07/20/08
26	1522-2	OP-PEST	30	MEOH	11/30/08
27	1495-1	STEROLS	200	MEOH	12/29/08
28	1494-1	ADD. PEST	4	ACETONE	01/23/09
29	1496-3	DECANES	100	MEOH	02/12/09
30	1497-2	EDB/DBCP	2	ACETONE	02/12/09
31	1510-3	TERPINEOL	100	MEOH	03/21/09

LCS SOLUTIONS

9/4/2008

32	1533-2	GUAIACOL	50-200	ACETONE	06/05/09
33	1522-1	RESIN ACID	250	ACETONE	06/11/09
34	1530-2	CONGENERS	250	ACETONE	07/23/09
50	1523-1	FULL RESIN	250	ACETONE	06/10/09
*=REVERIFIED SOLUTION					

SURR SOLUTIONS

9/4/2008

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
A	1525-4	ABN	100/150	MEOH	03/13/09
B	1513-1	SIM PNA	15/75	MEOH	04/15/09
C*	1443-1	SIM ABN	10/15	MEOH	04/03/09
D	1516-3	LOW PCB	0.2	ACETONE	05/09/09
E	1478-1	HERB	62.5	MEOH	09/21/08
F	1520-3	PCP	12.5	ACETONE	04/18/09
G	1502-3	1,4DIOXANE	100	MEOH	02/20/09
H	1504-2	OP-PEST	25	MEOH	03/20/09
I*	1458-1	LOW S. PNA	03/15	MEOH	06/05/09
J	1493-2	TBT-PORE	0.25	MECL2	12/15/08
K	1490-3	MED PCB	20	ACETONE	01/14/09
L	1486-5	TBT	10	MECL2	12/15/08
M	1518-3	EPH	1500	MECL2	05/10/09
N	1518-4	PCB	2	ACETONE	05/29/09
O	1521-3	TPH	450	MECL2	12/29/08
P	1518-2	HCID	2250	MECL2	12/29/08
Q	1497-3	EDB	2	ACETONE	02/12/09
R	1521-4	RESIN ACID	250	ACETONE	06/11/09
S	*RE-VER	FIED SOLUT	ION		
T					
U					
V					
W					
X					
Y					
Z					

Data Summary Package

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NU79

Prepared
By

Analytical Resources, Inc.

TBT

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS

Sample ID: COMPOSITE OF A&C SAMPLE

Lab Sample ID: NU79A
LIMS ID: 08-27935
Matrix: Water
Data Release Authorized:
Reported: 10/21/08

QC Report No: NU79-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: NA
Date Sampled: 10/16/08
Date Received: 10/16/08

Date Extracted: 10/17/08
Date Analyzed: 10/21/08 14:17
Instrument/Analyst: NT1/VTS

Sample Amount: 100 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyl Tin Ion	0.008	0.37	
DBT_ION	Dibutyl Tin Ion	0.012	0.046	
BT_ION	Butyl Tin Ion	0.008	0.013	

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	86.1%
Tripentyl Tin Chloride	87.7%

ANALYTICAL RESOURCES INCORPORATED

TBT SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: NU79-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: NA

Client ID	TPRT	TPNT	TOT OUT
MB-101708	82.7%	82.1%	0
LCS-101708	97.0%	62.4%	0
COMPOSITE OF A&C	86.1%	87.7%	0

	LCS/MB LIMITS	QC LIMITS
(TPRT) = Tripropyl Tin Chloride	(27-108)	(23-120)
(TPNT) = Tripentyl Tin Chloride	(41-121)	(40-119)

Prep Method: SW3510C
Analytical Method: TBT (Hexyl) Krone 1988
Log Number Range: 08-27935 to 08-27935

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: LCS-101708
LAB CONTROL SAMPLE

Lab Sample ID: LCS-101708
LIMS ID: 08-27935
Matrix: Water
Data Release Authorized:
Reported: 10/21/08

QC Report No: NU79-Anchor Environmental, LLC
Project: EDDON BOATYARD

Date Sampled: NA
Date Received: NA

Date Extracted LCS: 10/17/08
Date Analyzed LCS: 10/21/08 13:58
Instrument/Analyst LCS: NT1/VTS

Sample Amount LCS: 100 mL
Final Extract Volume LCS: 0.50 mL
Dilution Factor LCS: 1.00
Alumina Cleanup: Yes

Analyte	LCS	Spike Added	Recovery
Tributyl Tin Ion	0.101	0.112	90.2%
Dibutyl Tin Ion	0.160	0.192	83.3%
Butyl Tin Ion	0.050	0.156	32.1%

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	97.0%
Tripentyl Tin Chloride	62.4%

4B

SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

NU79MBW1

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NU79 Project: EDDON BOATYARD

Lab File ID: NU79MB Date Extracted: 10/17/08

Instrument ID: NT1 Date Analyzed: 10/21/08

Matrix: LIQUID Time Analyzed: 1338

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	NU79LCSW1	NU79LCSW1	NU79SB	10/21/08
02	COMPOSITE OF A&C	NU79A	NU79A	10/21/08
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
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30				

COMMENTS:

FORM IV SV

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS

Sample ID: MB-101708
METHOD BLANK

Lab Sample ID: MB-101708
LIMS ID: 08-27935
Matrix: Water
Data Release Authorized:
Reported: 10/21/08

QC Report No: NU79-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: NA
Date Sampled: NA
Date Received: NA

Date Extracted: 10/17/08
Date Analyzed: 10/21/08 13:38
Instrument/Analyst: NT1/VTS

Sample Amount: 100 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyl Tin Ion	0.008	< 0.008	U
DBT_ION	Dibutyl Tin Ion	0.012	< 0.012	U
BT_ION	Butyl Tin Ion	0.008	< 0.008	U

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	82.7%
Tripentyl Tin Chloride	82.1%

Laboratory Data Package

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NU79

Prepared
By

Analytical Resources, Inc.

TBT Analysis
QC Summary Data

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NU79

Prepared
By

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

TBT SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: NU79-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: NA

Client ID	TPRT	TPNT	TOT OUT
MB-101708	82.7%	82.1%	0
LCS-101708	97.0%	62.4%	0
COMPOSITE OF A&C	86.1%	87.7%	0

	LCS/MB LIMITS	QC LIMITS
(TPRT) = Tripropyl Tin Chloride	(27-108)	(23-120)
(TPNT) = Tripentyl Tin Chloride	(41-121)	(40-119)

Prep Method: SW3510C
Analytical Method: TBT (Hexyl) Krone 1988
Log Number Range: 08-27935 to 08-27935

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: LCS-101708
LAB CONTROL SAMPLE

Lab Sample ID: LCS-101708
LIMS ID: 08-27935
Matrix: Water
Data Release Authorized:
Reported: 10/21/08

QC Report No: NU79-Anchor Environmental, LLC
Project: EDDON BOATYARD

Date Sampled: NA
Date Received: NA

Date Extracted LCS: 10/17/08
Date Analyzed LCS: 10/21/08 13:58
Instrument/Analyst LCS: NT1/VTS

Sample Amount LCS: 100 mL
Final Extract Volume LCS: 0.50 mL
Dilution Factor LCS: 1.00
Alumina Cleanup: Yes

Analyte	LCS	Spike Added	Recovery
Tributyl Tin Ion	0.101	0.112	90.2%
Dibutyl Tin Ion	0.160	0.192	83.3%
Butyl Tin Ion	0.050	0.156	32.1%

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	97.0%
Tripentyl Tin Chloride	62.4%

4B

SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

NU79MBW1

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NU79 Project: EDDON BOATYARD

Lab File ID: NU79MB Date Extracted: 10/17/08

Instrument ID: NT1 Date Analyzed: 10/21/08

Matrix: LIQUID Time Analyzed: 1338

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	NU79LCSW1	NU79LCSW1	NU79SB	10/21/08
02	COMPOSITE OF A&C	NU79A	NU79A	10/21/08
03				
04				
05				
06				
07				
08				
09				
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COMMENTS:

FORM IV SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

Instrument ID: NT1 Project: EDDON BOATYARD

DFTPP Injection Date: 10/08/08 DFTPP Injection Time: 1429

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	48.1
68	Less than 2.0% of mass 69	0.1 (0.1)1
69	Mass 69 relative abundance	50.8
70	Less than 2.0% of mass 69	0.1 (0.1)1
127	25.0 - 75.0% of mass 198	51.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	8.2
275	10.0 - 30.0% of mass 198	19.7
365	Greater than 0.75% of mass 198	2.65
441	Present, but less than mass 443	1.2
442	40.0 - 110.0% of mass 198	73.0
443	15.0 - 24.0% of mass 442	14.0 (19.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		IC1008A	IC1008A	10/08/08	1449
02		IC1008B	IC1008B	10/08/08	1515
03		IC1008C	IC1008C	10/08/08	1535
04		IC1008D	IC1008D	10/08/08	1555
05		IC1008E	IC1008E	10/08/08	1614
06		IC1008F	IC1008F	10/08/08	1634
07					
08					
09					
10					
11					
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19					
20					
21					
22					

FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

Instrument ID: NT1 Project: EDDON BOATYARD

DFTPP Injection Date: 10/21/08 DFTPP Injection Time: 1252

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	47.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	57.6
70	Less than 2.0% of mass 69	0.0 (0.1)1
127	25.0 - 75.0% of mass 198	50.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	19.0
365	Greater than 0.75% of mass 198	1.74
441	Present, but less than mass 443	12.8
442	40.0 - 110.0% of mass 198	67.2
443	15.0 - 24.0% of mass 442	13.8 (20.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		CC1021	CC1021A	10/21/08	1311
02	NU79MBW1	NU79MBW1	NU79MB	10/21/08	1338
03	NU79LCSW1	NU79LCSW1	NU79SB	10/21/08	1358
04	COMPOSITE OF A&C	NU79A	NU79A	10/21/08	1417
05					
06					
07					
08					
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17					
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20					
21					
22					

FORM V SV

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NU79 Project: EDDON BOATYARD

Cont. Calib. ID: CC1021A Date Analyzed: 10/21/08

Instrument ID: NT1 Time Analyzed: 1311

		IS1 AREA	#	RT	#	IS2 AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	109838		9.22		113243		10.12					
	UPPER LIMIT	219676		9.72		226486		10.62					
	LOWER LIMIT	54919		8.72		56622		9.62					
	CLIENT SAMP. NO.												
01	NU79MBW1	136188		9.22		132325		10.12					
02	NU79LCSW1	151423		9.22		148191		10.12					
03	COMPOSITE OF	154931		9.22		149624		10.12					
04													
05													
06													
07													
08													
09													
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11													
12													
13													
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15													
16													
17													
18													
19													
20													
21													
22													

IS1 = Tetrapentyl Tin
IS2 = p-Terphenyl-d14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

TBT Analysis
Sample Data

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NU79

Prepared
By

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS

Sample ID: COMPOSITE OF A&C SAMPLE

Lab Sample ID: NU79A
LIMS ID: 08-27935
Matrix: Water
Data Release Authorized:
Reported: 10/21/08

QC Report No: NU79-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: NA
Date Sampled: 10/16/08
Date Received: 10/16/08

Date Extracted: 10/17/08
Date Analyzed: 10/21/08 14:17
Instrument/Analyst: NT1/VTS

Sample Amount: 100 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyl Tin Ion	0.008	0.37	
DBT_ION	Dibutyl Tin Ion	0.012	0.046	
BT_ION	Butyl Tin Ion	0.008	0.013	

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	86.1%
Tripentyl Tin Chloride	87.7%

Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081021.b/nu79a.d
Lab Smp Id: NU79A Client Smp ID: COMPOSITE OF A&C
Inj Date : 21-OCT-2008 14:17
Operator : VTS Inst ID: nt1.i
Smp Info : NU79A
Misc Info : 08-27935
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081021.b/pw3ul.m
Meth Date : 21-Oct-2008 15:02 van Quant Type: ISTD
Cal Date : 08-OCT-2008 16:34 Cal File: ic1008f.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	0.50000	Final Extract Volume (mL)
Vo	100.00000	Volume Extracted (L)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	FINAL (ug/L)
$	1 Tripropyl Tin (Hexyl)	291	7.586	7.597	(0.823)	15020	25.2789	0.1264
	2 Tetrabutyl Tin	289	Compound Not Detected.					
	3 Tributyl Tin (Hexyl)	319	8.573	8.573	(0.930)	47262	95.1965	0.4760
*	4 Tetrapentyl Tin	333	9.221	9.222	(1.000)	154931	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.262	9.262	(0.915)	4881	16.0140	0.08007
$	6 Tripentyl Tin (Hexyl)	347	9.556	9.556	(0.944)	11567	24.9341	0.1247(R)
	7 Butyl Tin (Hexyl)	347	9.893	9.893	(0.977)	3362	6.47459	0.03237
*	8 p-Terphenyl-d14	244	10.122	10.122	(1.000)	149624	20.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

LWS
10.21.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: nu79a.d
Lab Smp Id: NU79A
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081021.b/pw3ul.m
Misc Info: 08-27935

Calibration Date: 21-OCT-2008
Calibration Time: 13:11
Client Smp ID: COMPOSITE OF A&C
Level: LOW
Sample Type: Water

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	109838	54919	219676	154931	41.05
8 p-Terphenyl-d14	113243	56622	226486	149624	32.13

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.22	8.72	9.72	9.22	-0.01
8 p-Terphenyl-d14	10.12	9.62	10.62	10.12	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: LIQUID
Lab Smp Id: NU79A
Level: LOW
Data Type: MS DATA
SpikeList File: PW.spk
Sublist File: PW.sub
Method File: /chem3/nt1.i/20081021.b/pw3ul.m
Misc Info: 08-27935

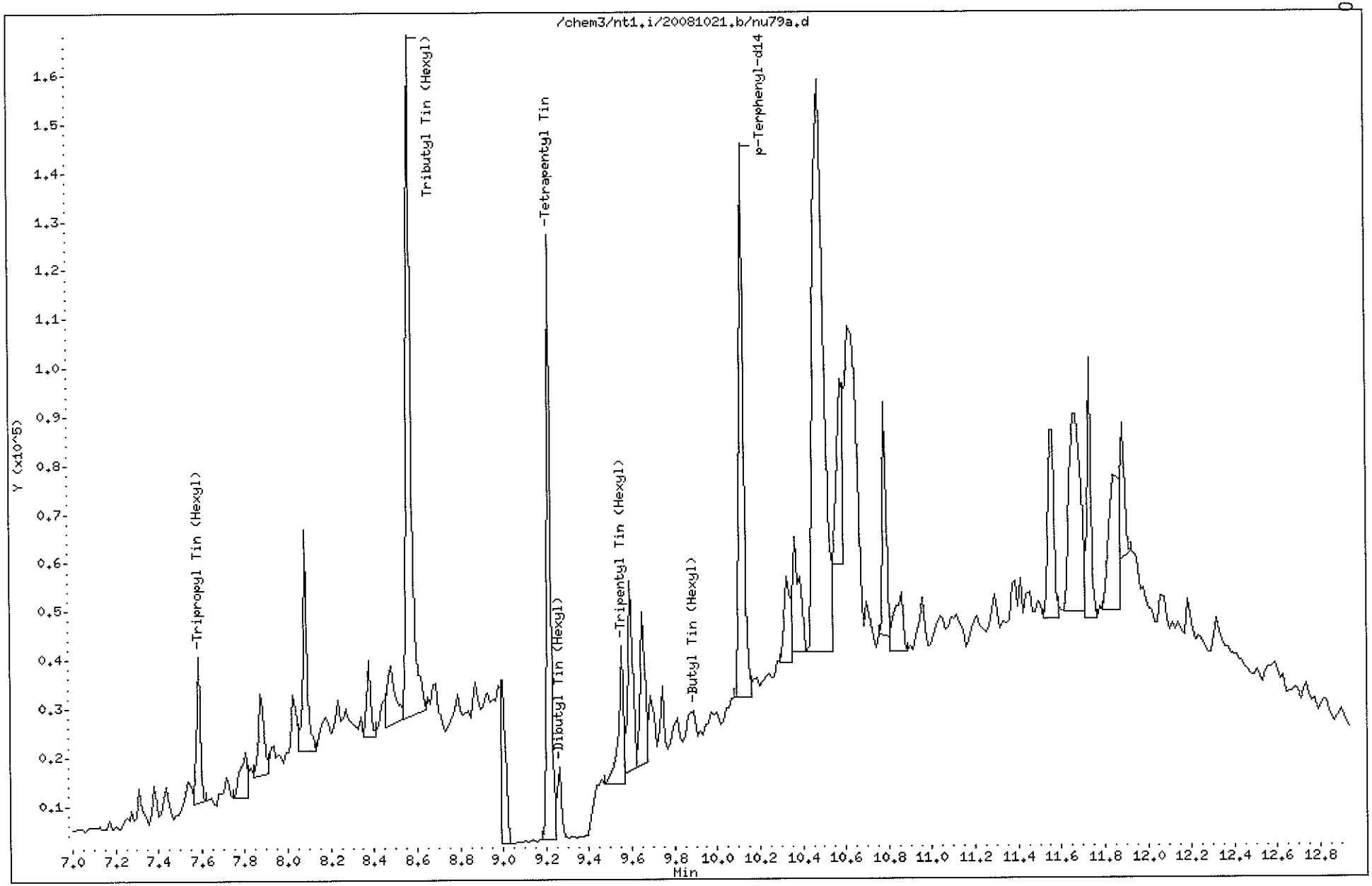
Client SDG: NU79
Fraction: SV
Client Smp ID: COMPOSITE OF A&C
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 1 Tripropyl Tin (Hex	0.1250	0.1264	101.12	30-108
$ 6 Tripentyl Tin (Hex	0.1250	0.1247	99.74*	23-97

Data File: /chem3/nt1.i/20081021.b/nu79a.d
Date : 21-OCT-2008 14:17
Client ID: COMPOSITE OF A&C
Sample Info: NU79A
Purge Volume: 100.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

0032



Data File: /chem3/nt1.i/20081021.b/nu79a.d

Date : 21-OCT-2008 14:17

Client ID: COMPOSITE OF A&C

Instrument: nt1.i

Sample Info: NU79A

Purge Volume: 100.0

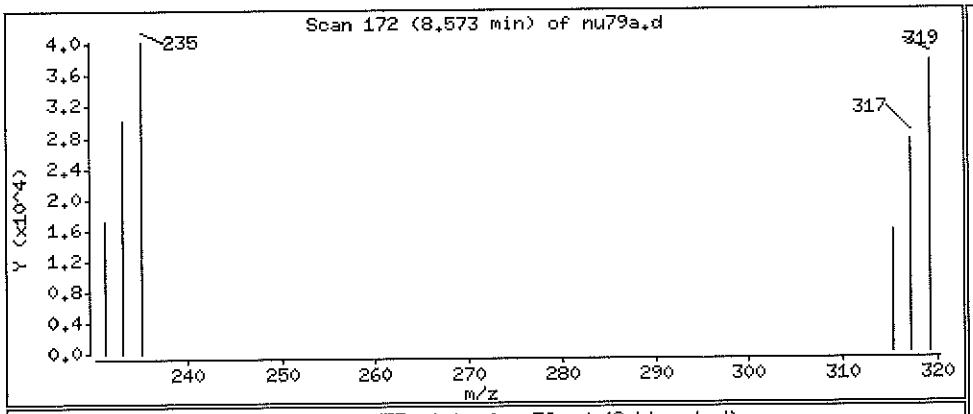
Operator: VTS

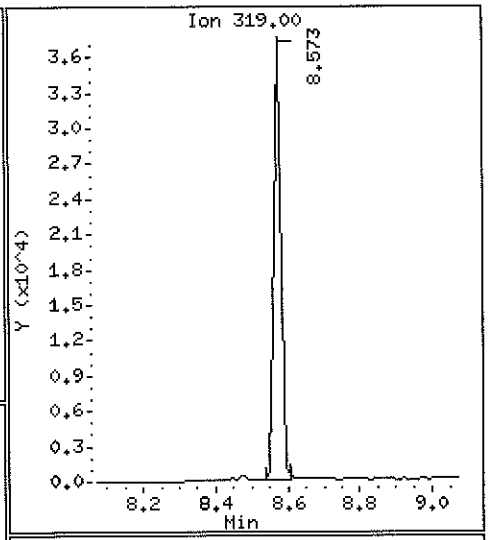
Column phase: ZB-5

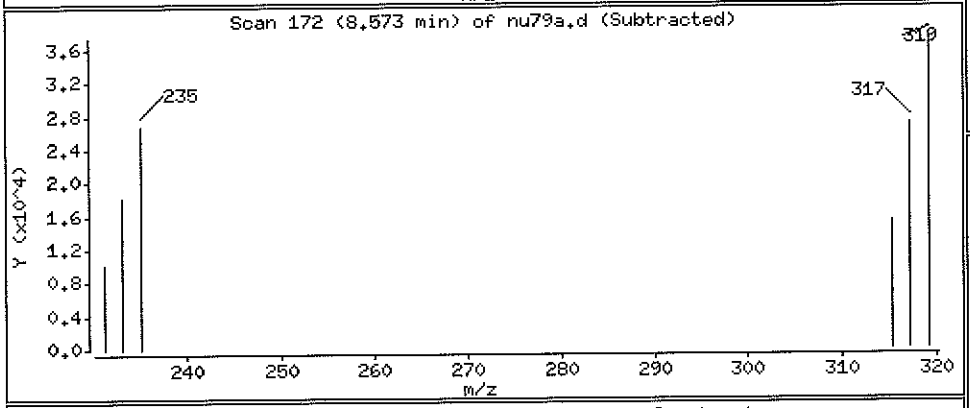
Column diameter: 0.25

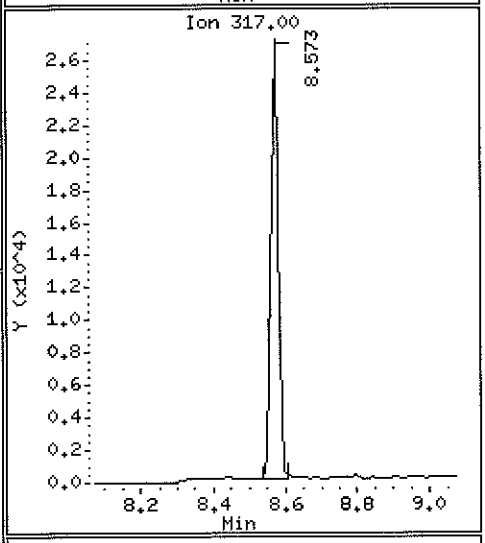
3 Tributyl Tin (Hexyl)

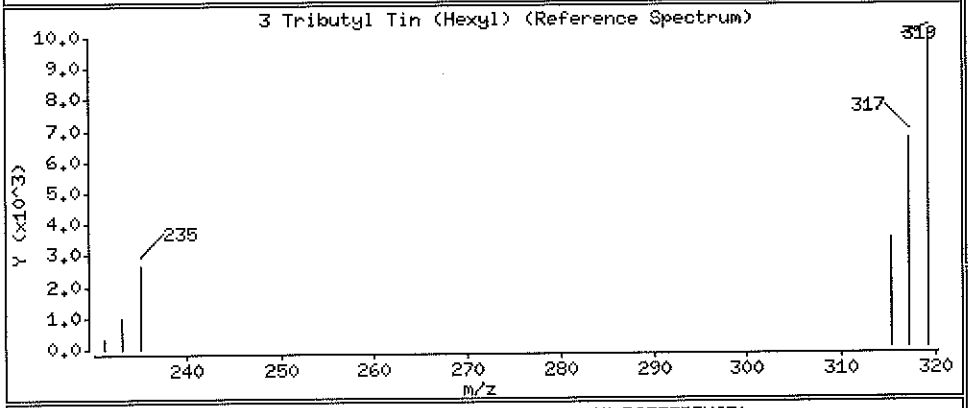
Concentration: 0.4760 ug/L

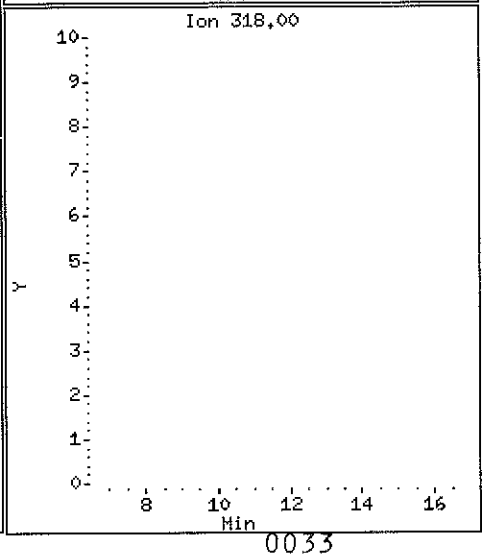


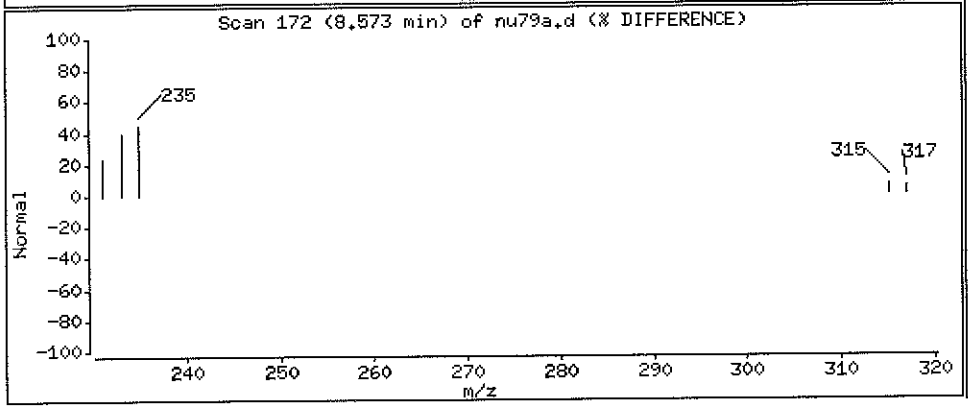












Data File: /chem3/nt1.i/20081021.b/nu79a.d

Date : 21-OCT-2008 14:17

Client ID: COMPOSITE OF A&C

Instrument: nt1.i

Sample Info: NU79A

Purge Volume: 100.0

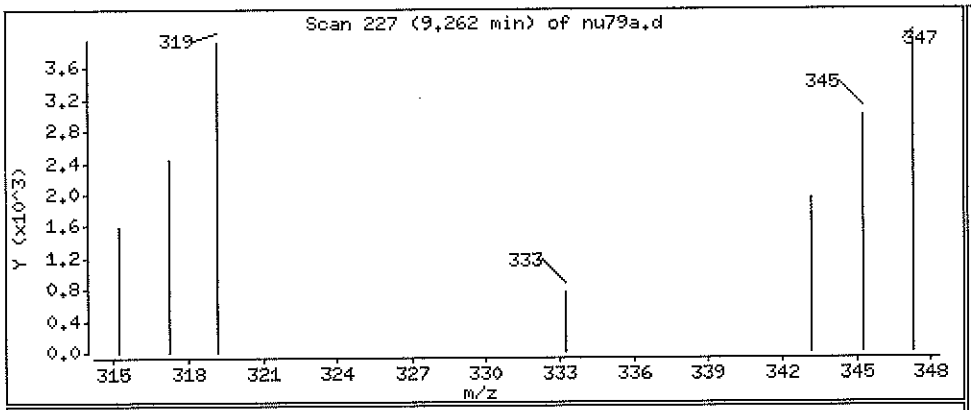
Operator: VTS

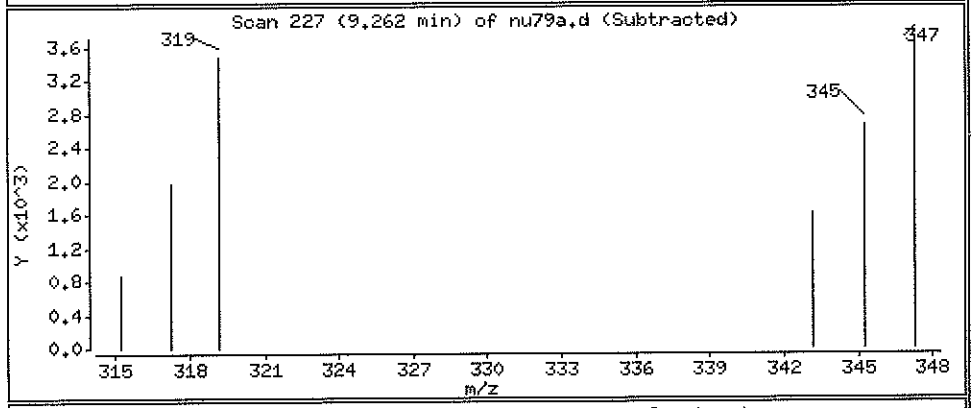
Column phase: ZB-5

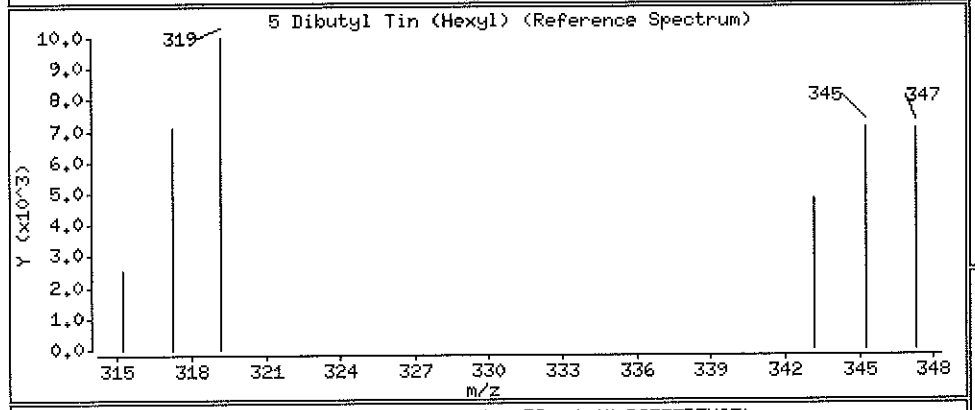
Column diameter: 0.25

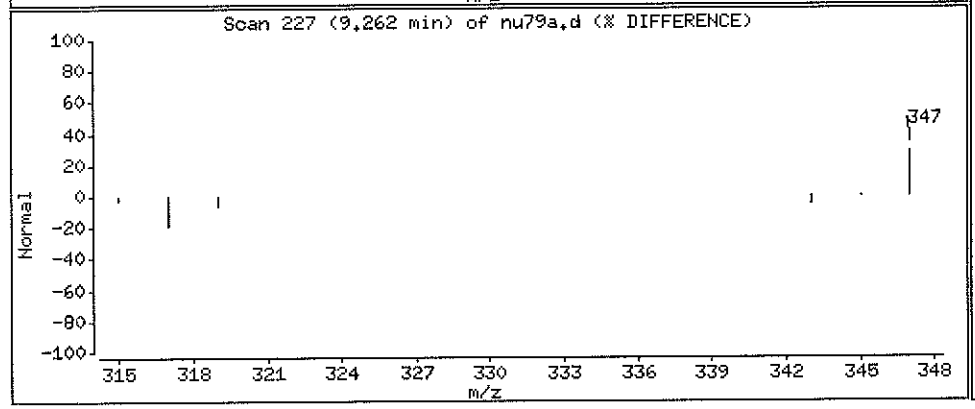
5 Dibutyl Tin (Hexyl)

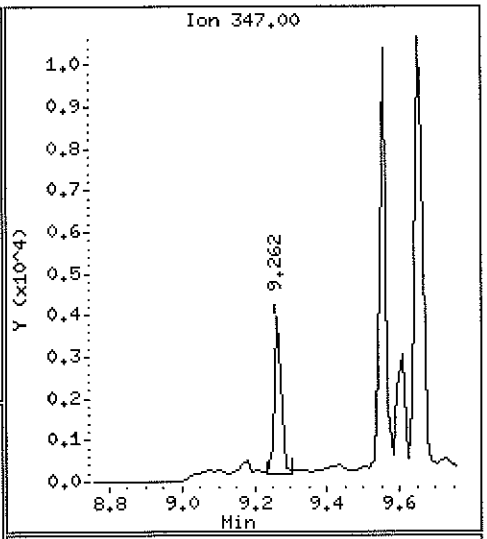
Concentration: 0.08007 ug/L

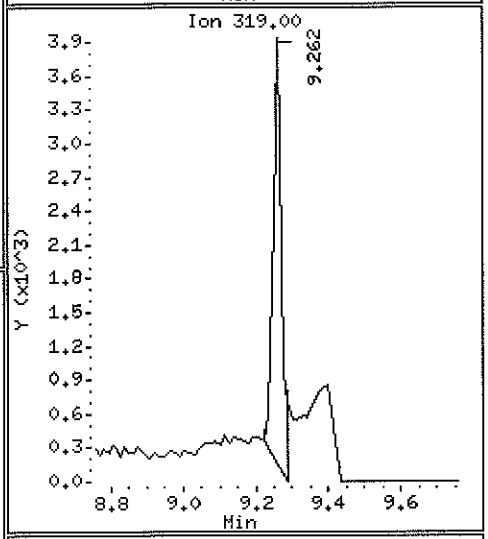


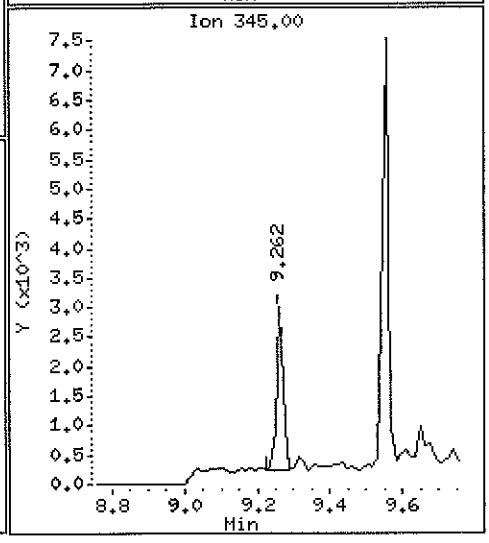












Data File: /chem3/nt1.i/20081021.b/nu79a.d

Date : 21-OCT-2008 14:17

Client ID: COMPOSITE OF A&C

Instrument: nt1.i

Sample Info: NU79A

Purge Volume: 100.0

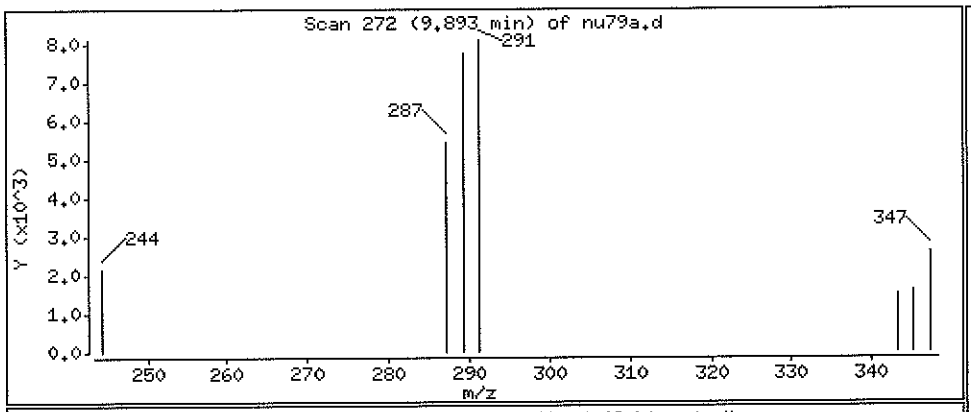
Operator: VTS

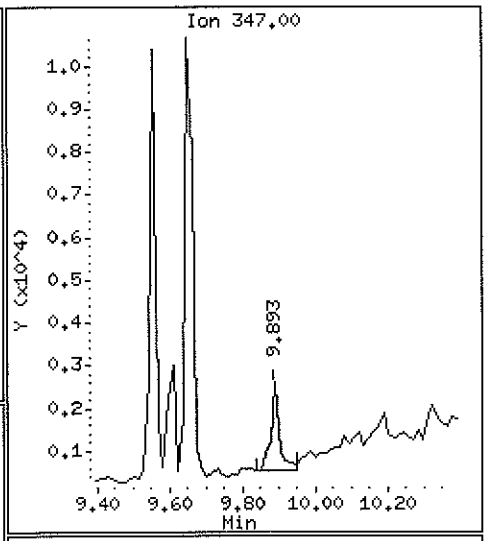
Column phase: ZB-5

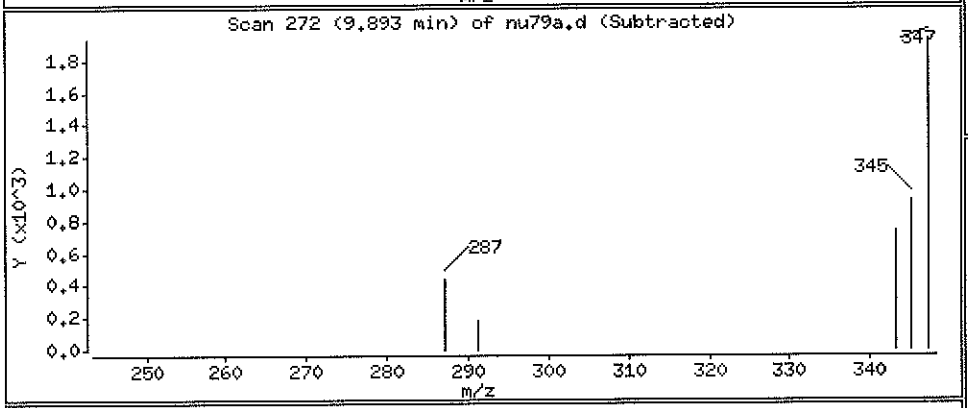
Column diameter: 0.25

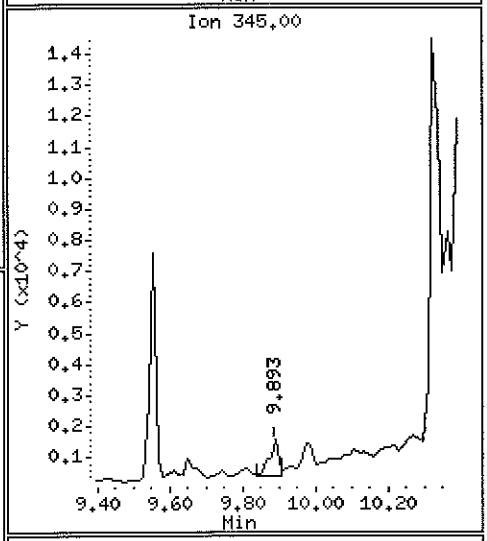
7 Butyl Tin (Hexyl)

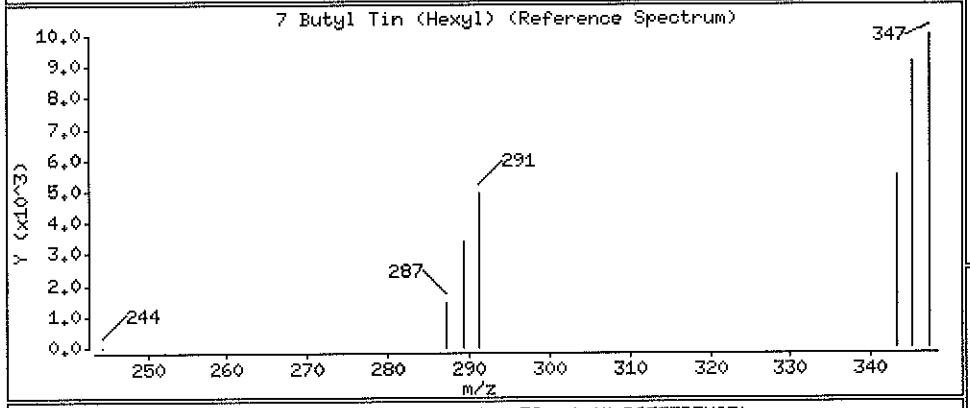
Concentration: 0.03237 ug/L

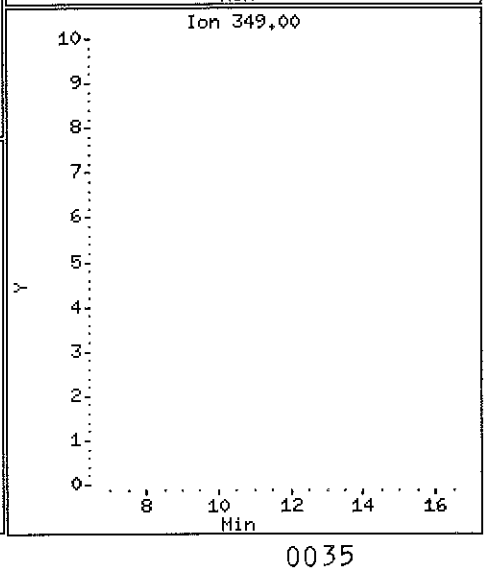


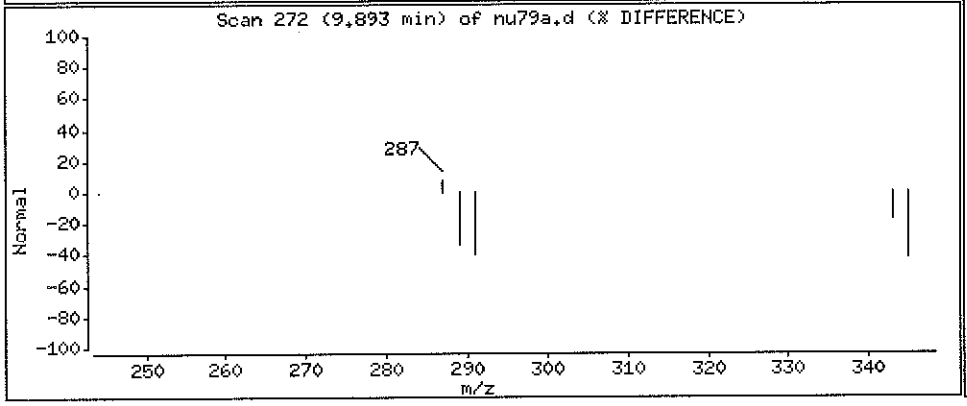












TBT Analysis
Standard Raw Data

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NU79

Prepared
By

Analytical Resources, Inc.

6B

SEMIVOLATILE 8270-C INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NU79 Project: EDDON BOATYARD

Instrument ID: NT1 Calibration Date: 10/08/08

LAB FILE ID: RRF2 =IC1008C RRF5 =IC1008E RRF10 =IC1008F
RRF25 =IC1008A RRF50 =IC1008D RRF100=IC1008B

COMPOUND	RRF 2	RRF 5	RRF 10	RRF 25	RRF 50	RRF 100	___ RRF	%RSD /R^2
Tributyl Tin (Hexyl)	0.790	0.564	0.606	0.601	0.646	0.640	0.641	12.3
Dibutyl Tin (Hexyl)	0.040	0.039	0.034	0.043	0.042	0.046	0.041	9.8
Butyl Tin (Hexyl)	0.067	0.064	0.066	0.075	0.070	0.075	0.070	6.9
Tetrabutyl Tin	0.885	0.663	0.751	0.707	0.752	0.729	0.748	10.0
Tripropyl Tin (Hexyl)	0.718	0.711	0.799	0.767	0.831	0.775	0.767	6.0
Tripentyl Tin (Hexyl)	0.053	0.060	0.061	0.064	0.065	0.068	0.062	8.6

* Compounds with maximum %RSD = 30%

~ Compounds with minimum average RRF = .05

<- Outside QC limits

FORM VI SV-1

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 08-OCT-2008 14:49
End Cal Date : 08-OCT-2008 16:34
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt1.i/20081008.b/pw3ul.m
Cal Date : 09-Oct-2008 07:43 van
Curve Type : Average

Calibration File Names:
Level 1: /chem3/nt1.i/20081008.b/ic1008c.d
Level 2: /chem3/nt1.i/20081008.b/ic1008e.d
Level 3: /chem3/nt1.i/20081008.b/ic1008f.d
Level 4: /chem3/nt1.i/20081008.b/ic1008a.d
Level 5: /chem3/nt1.i/20081008.b/ic1008d.d
Level 6: /chem3/nt1.i/20081008.b/ic1008b.d

Compound	2.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
2 Tetrabutyl Tin	0.88500	0.66327	0.75073	0.70747	0.75157	0.72929	0.74789	9.999
3 Tributyl Tin (Hexyl)	0.78997	0.56357	0.60589	0.60074	0.64555	0.63960	0.64089	12.299
5 Dibutyl Tin (Hexyl)	0.03999	0.03923	0.03401	0.04308	0.04258	0.04556	0.04074	9.828
7 Butyl Tin (Hexyl)	0.06695	0.06377	0.06598	0.07510	0.06965	0.07500	0.06941	6.859
$ 1 Tripropyl Tin (Hexyl)	0.71859	0.71112	0.79911	0.76742	0.83110	0.77475	0.76701	6.022
$ 6 Tripentyl Tin (Hexyl)	0.05303	0.06035	0.06062	0.06455	0.06509	0.06841	0.06201	8.601

Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ic1008a.d
Lab Smp Id: IC1008A
Inj Date : 08-OCT-2008 14:49
Operator : VTS Inst ID: nt1.i
Smp Info : IC1008A
Misc Info :
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 07:44 van Quant Type: ISTD
Cal Date : 08-OCT-2008 14:49 Cal File: ic1008a.d
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.617	7.617	(0.824)	21290	25.0000	25.00
	2 Tetrabutyl Tin	289	7.837	7.837	(0.847)	19627	25.0000	25.00
	3 Tributyl Tin (Hexyl)	319	8.607	8.607	(0.931)	16666	25.0000	25.00
*	4 Tetrapentyl Tin	333	9.248	9.248	(1.000)	221939	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.289	9.289	(0.915)	23580	50.0000	50.00
$	6 Tripentyl Tin (Hexyl)	347	9.583	9.583	(0.944)	35329	50.0000	50.00
	7 Butyl Tin (Hexyl)	347	9.920	9.920	(0.977)	41102	50.0000	50.00
*	8 p-Terphenyl-d14	244	10.149	10.149	(1.000)	218922	20.0000	

VTS
10.9.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic1008a.d
Lab Smp Id: IC1008A
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info:

Calibration Date: 08-OCT-2008
Calibration Time: 14:49

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	221939	0.00
8 p-Terphenyl-d14	218922	109461	437844	218922	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	0.00
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

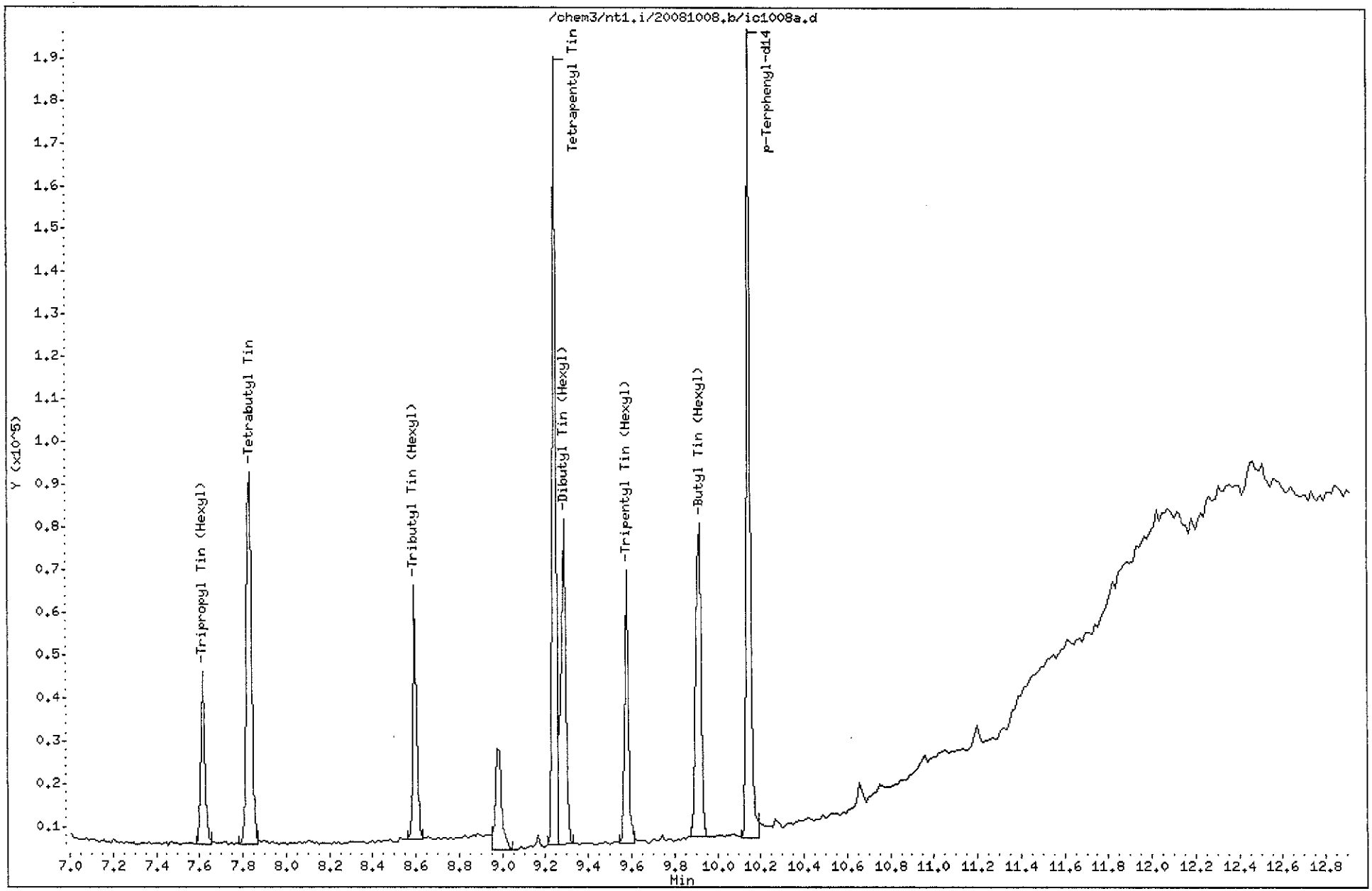
Data File: /chem3/nt1.i/20081008.b/ic1008a.d
Date : 08-OCT-2008 14:49
Client ID:
Sample Info: IC1008A

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5

0041



Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ic1008b.d
Lab Smp Id: IC1008B
Inj Date : 08-OCT-2008 15:15
Operator : VTS Inst ID: nt1.i
Smp Info : IC1008B
Misc Info : PW100
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 07:44 van Quant Type: ISTD
Cal Date : 08-OCT-2008 15:15 Cal File: ic1008b.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.618	7.617	(0.824)	84767	100.000	100.5
	2 Tetrabutyl Tin	289	7.838	7.837	(0.847)	79793	100.000	101.5
	3 Tributyl Tin (Hexyl)	319	8.608	8.607	(0.931)	69980	100.000	103.1
*	4 Tetrapentyl Tin	333	9.249	9.248	(1.000)	218823	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.289	9.289	(0.915)	93191	200.000	205.6
$	6 Tripentyl Tin (Hexyl)	347	9.583	9.583	(0.944)	139943	200.000	205.8
	7 Butyl Tin (Hexyl)	347	9.920	9.920	(0.977)	153425	200.000	199.9
*	8 p-Terphenyl-d14	244	10.149	10.149	(1.000)	204558	20.0000	

VS
10.9.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic1008b.d
Lab Smp Id: IC1008B
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: PW100

Calibration Date: 08-OCT-2008
Calibration Time: 14:49

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	218823	-1.40
8 p-Terphenyl-d14	218922	109461	437844	204558	-6.56

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	0.01
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

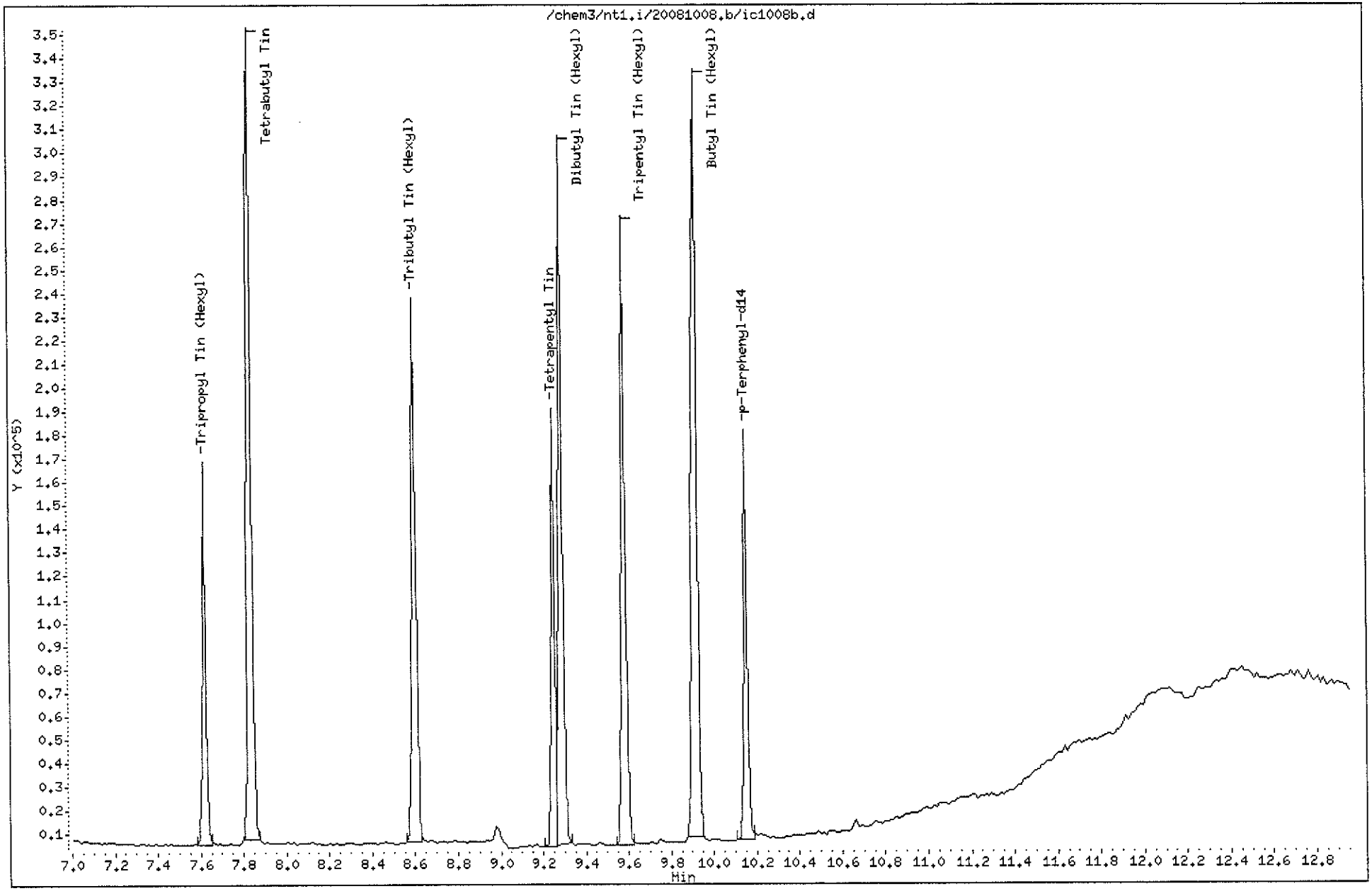
Data File: /chem3/nt1.i/20081008.b/ic1008b.d
Date : 08-OCT-2008 15:15
Client ID:
Sample Info: IC1008B

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5

0044



Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ic1008c.d
Lab Smp Id: IC1008C
Inj Date : 08-OCT-2008 15:35
Operator : VTS
Inst ID: nt1.i
Smp Info : IC1008C
Misc Info : PW2
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 07:44 van
Quant Type: ISTD
Cal Date : 08-OCT-2008 15:35
Cal File: ic1008c.d
Als bottle: 2
Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: PW.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.620	7.617	(0.824)	1520	2.00000	1.907
	2 Tetrabutyl Tin	289	7.840	7.837	(0.848)	1872	2.00000	2.287
	3 Tributyl Tin (Hexyl)	319	8.607	8.607	(0.931)	1671	2.00000	2.335
*	4 Tetrapentyl Tin	333	9.248	9.248	(1.000)	211526	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.289	9.289	(0.915)	1695	4.00000	3.731
$	6 Tripentyl Tin (Hexyl)	347	9.582	9.583	(0.944)	2248	4.00000	3.422
	7 Butyl Tin (Hexyl)	347	9.919	9.920	(0.977)	2838	4.00000	3.702
*	8 p-Terphenyl-d14	244	10.148	10.149	(1.000)	211940	20.0000	

10-9-2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic1008c.d
Lab Smp Id: IC1008C
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: PW2

Calibration Date: 08-OCT-2008
Calibration Time: 14:49

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	211526	-4.69
8 p-Terphenyl-d14	218922	109461	437844	211940	-3.19

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	0.00
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

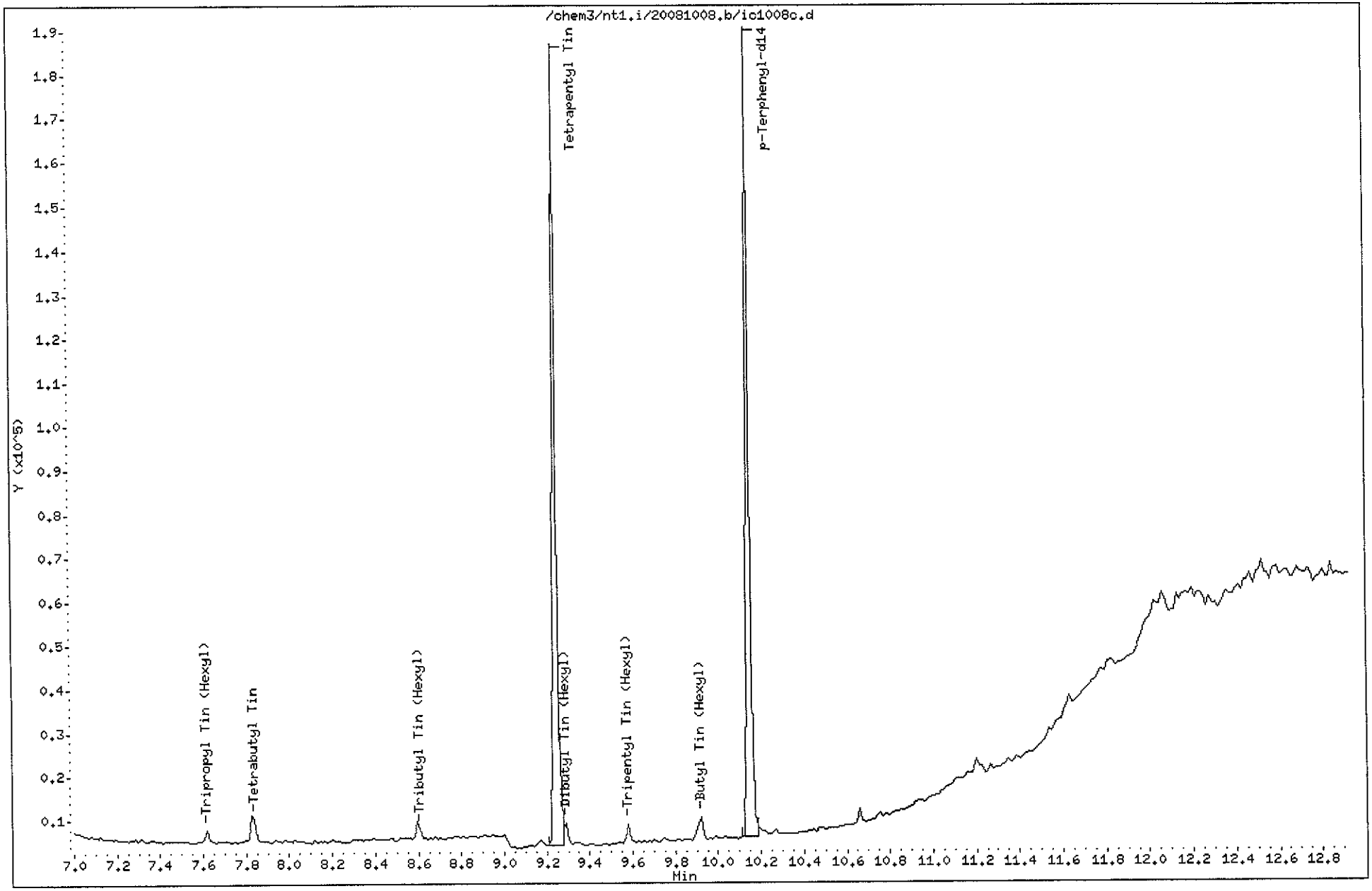
Data File: /chem3/nt1.i/20081008.b/ic1008c.d
Date : 08-OCT-2008 15:35
Client ID:
Sample Info: IC1008C

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5

0047



Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ic1008d.d
Lab Smp Id: IC1008D
Inj Date : 08-OCT-2008 15:55
Operator : VTS Inst ID: nt1.i
Smp Info : IC1008D
Misc Info : PW50
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 07:44 van Quant Type: ISTD
Cal Date : 08-OCT-2008 15:55 Cal File: ic1008d.d
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.617	7.617	(0.824)	40591	50.0000	53.76
	2 Tetrabutyl Tin	289	7.837	7.837	(0.847)	36707	50.0000	48.91
	3 Tributyl Tin (Hexyl)	319	8.608	8.607	(0.931)	31529	50.0000	48.25
*	4 Tetrapentyl Tin	333	9.248	9.248	(1.000)	195361	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.288	9.289	(0.915)	41073	100.000	99.47
$	6 Tripentyl Tin (Hexyl)	347	9.582	9.583	(0.944)	62797	100.000	103.7
	7 Butyl Tin (Hexyl)	347	9.919	9.920	(0.977)	67191	100.000	97.17
*	8 p-Terphenyl-d14	244	10.148	10.149	(1.000)	192944	20.0000	

VTS
10.9.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic1008d.d
Lab Smp Id: IC1008D
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: PW50

Calibration Date: 08-OCT-2008
Calibration Time: 14:49
Level:
Sample Type:

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	195361	-11.98
8 p-Terphenyl-d14	218922	109461	437844	192944	-11.87

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	-0.01
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

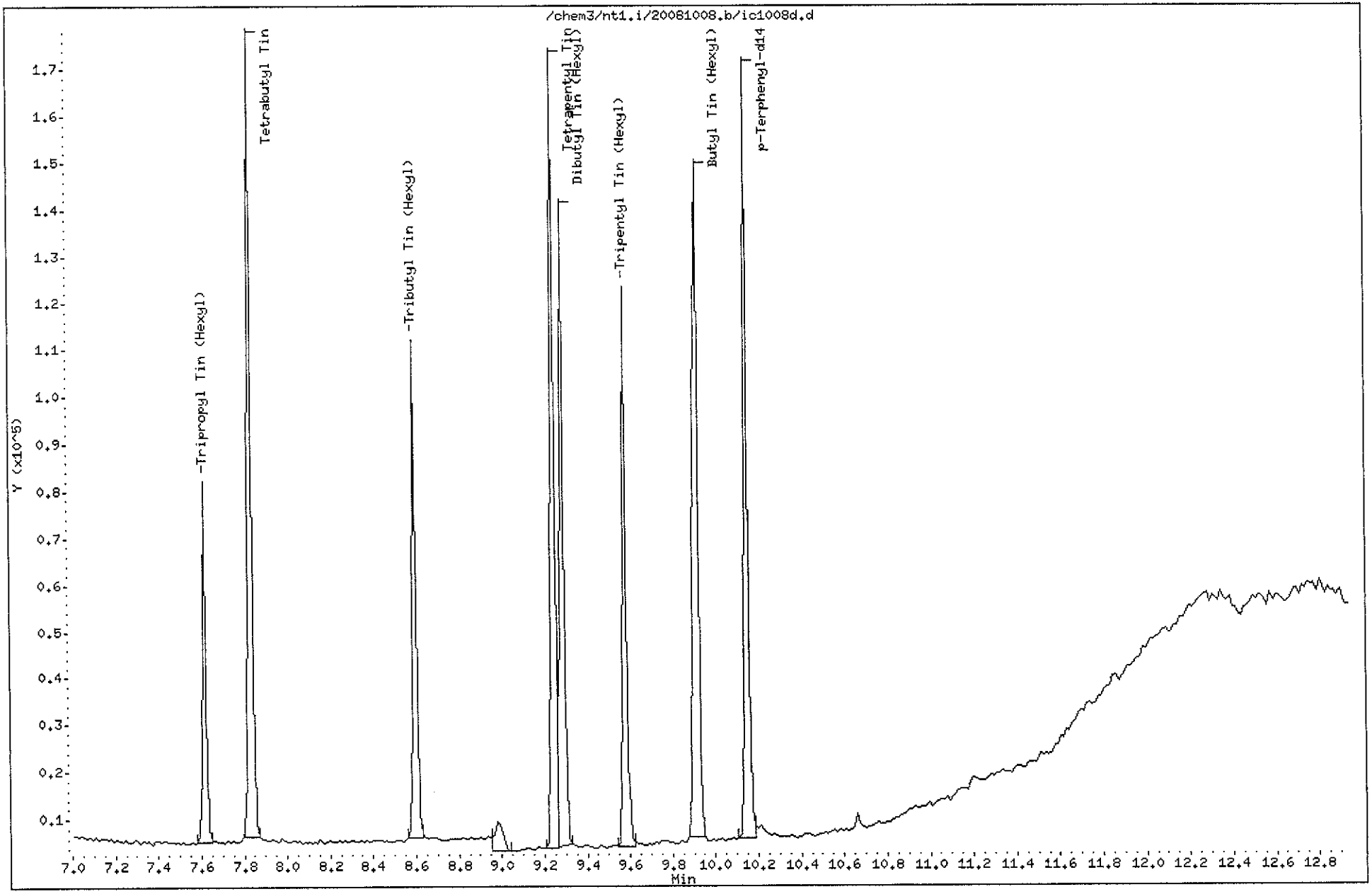
Data File: /chem3/nt1.i/20081008.b/ic1008d.d
Date : 08-OCT-2008 15:55
Client ID:
Sample Info: IC1008D

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5

0050



Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ic1008e.d
Lab Smp Id: IC1008E
Inj Date : 08-OCT-2008 16:14
Operator : VTS Inst ID: nt1.i
Smp Info : IC1008E
Misc Info : PW5
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 07:44 van Quant Type: ISTD
Cal Date : 08-OCT-2008 16:14 Cal File: ic1008e.d
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.618	7.617	(0.824)	4622	5.00000	4.675
	2 Tetrabutyl Tin	289	7.838	7.837	(0.847)	4311	5.00000	4.438
	3 Tributyl Tin (Hexyl)	319	8.608	8.607	(0.931)	3663	5.00000	4.349
*	4 Tetrapentyl Tin	333	9.249	9.248	(1.000)	259986	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.289	9.289	(0.915)	5015	10.0000	9.322
$	6 Tripentyl Tin (Hexyl)	347	9.583	9.583	(0.944)	7714	10.0000	9.688
	7 Butyl Tin (Hexyl)	347	9.920	9.920	(0.977)	8152	10.0000	9.098
*	8 p-Terphenyl-d14	244	10.149	10.149	(1.000)	255658	20.0000	

VTS
10-9-2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic1008e.d
Lab Smp Id: IC1008E
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: PW5

Calibration Date: 08-OCT-2008
Calibration Time: 14:49

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	259986	17.14
8 p-Terphenyl-d14	218922	109461	437844	255658	16.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	0.00
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

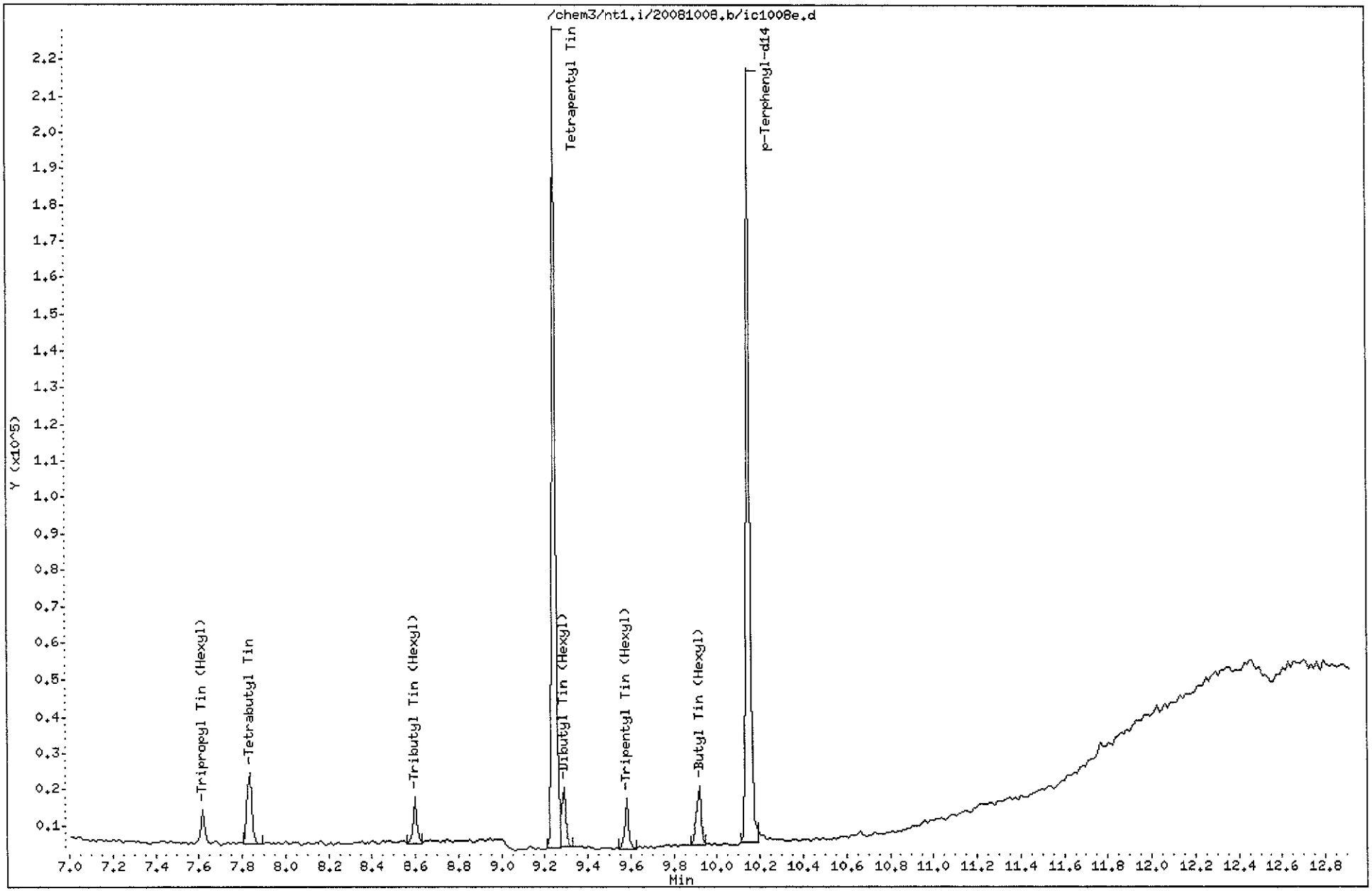
Data File: /chem3/nt1.i/20081008.b/ic1008e.d
Date : 08-OCT-2008 16:14
Client ID:
Sample Info: IC1008E

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5

0053



Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ic1008f.d
Lab Smp Id: IC1008F
Inj Date : 08-OCT-2008 16:34
Operator : VTS
Inst ID: nt1.i
Smp Info : IC1008F
Misc Info : PW10
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 07:44 van
Quant Type: ISTD
Cal Date : 08-OCT-2008 16:34
Cal File: ic1008f.d
Als bottle: 5
Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: PW.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.618	7.617	(0.824)	8342	10.0000	10.42
	2 Tetrabutyl Tin	289	7.838	7.837	(0.847)	7837	10.0000	10.04
	3 Tributyl Tin (Hexyl)	319	8.608	8.607	(0.931)	6325	10.0000	9.454
*	4 Tetrapentyl Tin	333	9.249	9.248	(1.000)	208783	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.289	9.289	(0.915)	7269	20.0000	16.70
$	6 Tripentyl Tin (Hexyl)	347	9.583	9.583	(0.944)	12955	20.0000	19.55
	7 Butyl Tin (Hexyl)	347	9.920	9.920	(0.977)	14100	20.0000	19.01
*	8 p-Terphenyl-d14	244	10.149	10.149	(1.000)	213713	20.0000	

VTS
10.8.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic1008f.d
Lab Smp Id: IC1008F
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: PW10

Calibration Date: 08-OCT-2008
Calibration Time: 14:49

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	208783	-5.93
8 p-Terphenyl-d14	218922	109461	437844	213713	-2.38

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	0.01
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

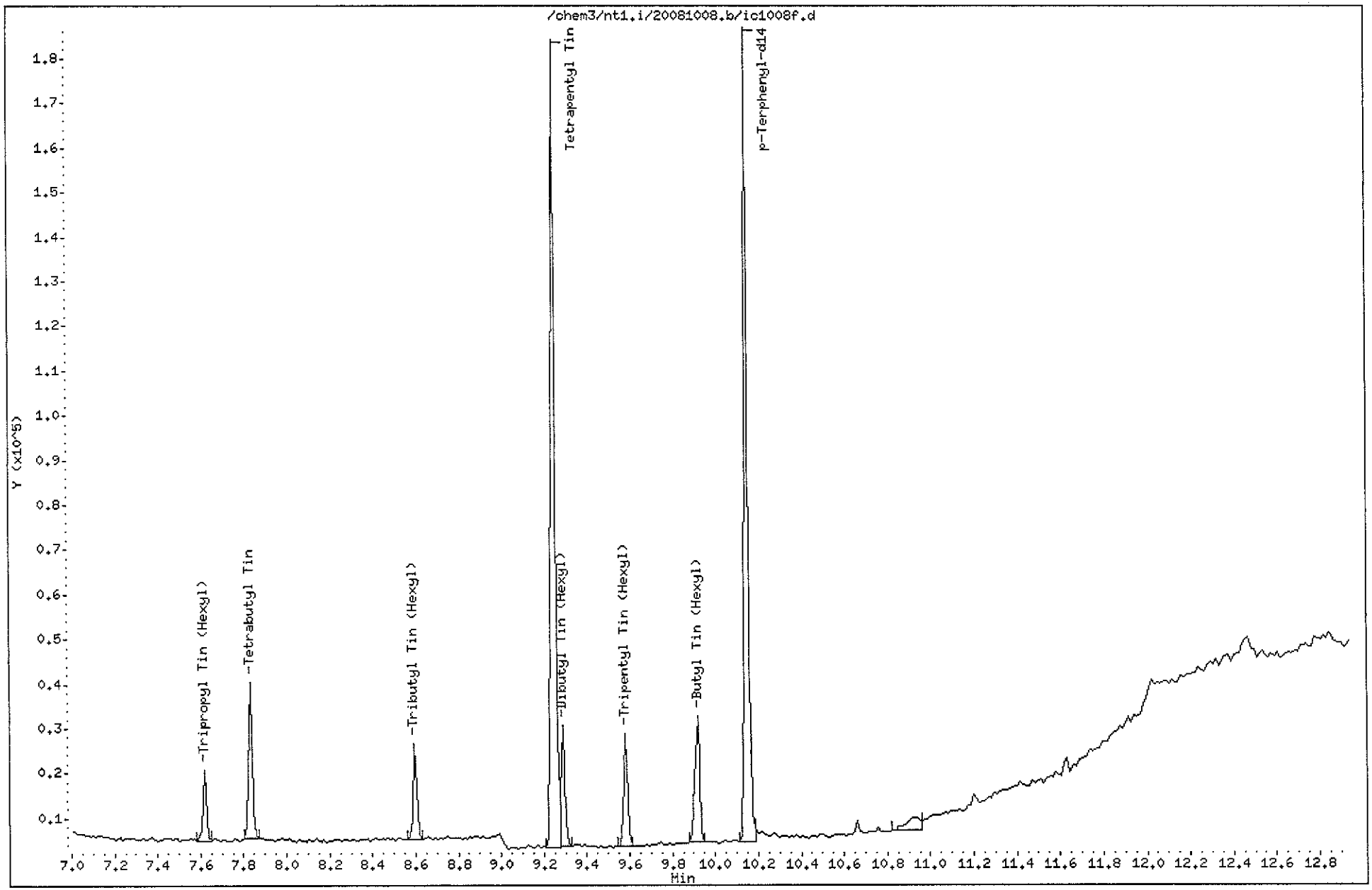
Data File: /chem3/nt1.i/20081008.b/ic1008f.d
Date : 08-OCT-2008 16:34
Client ID:
Sample Info: IC1008F

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

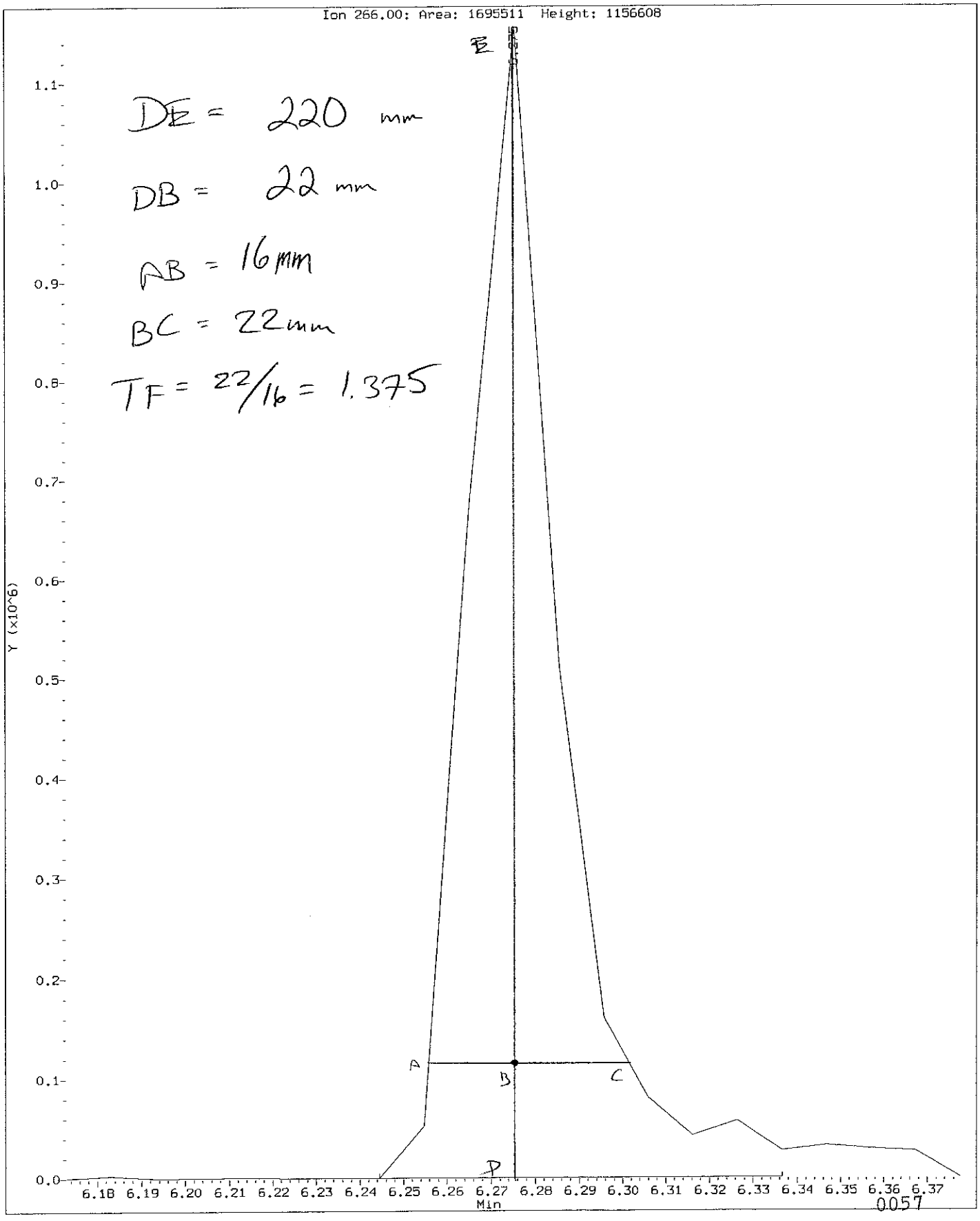
Column phase: ZB-5

0056



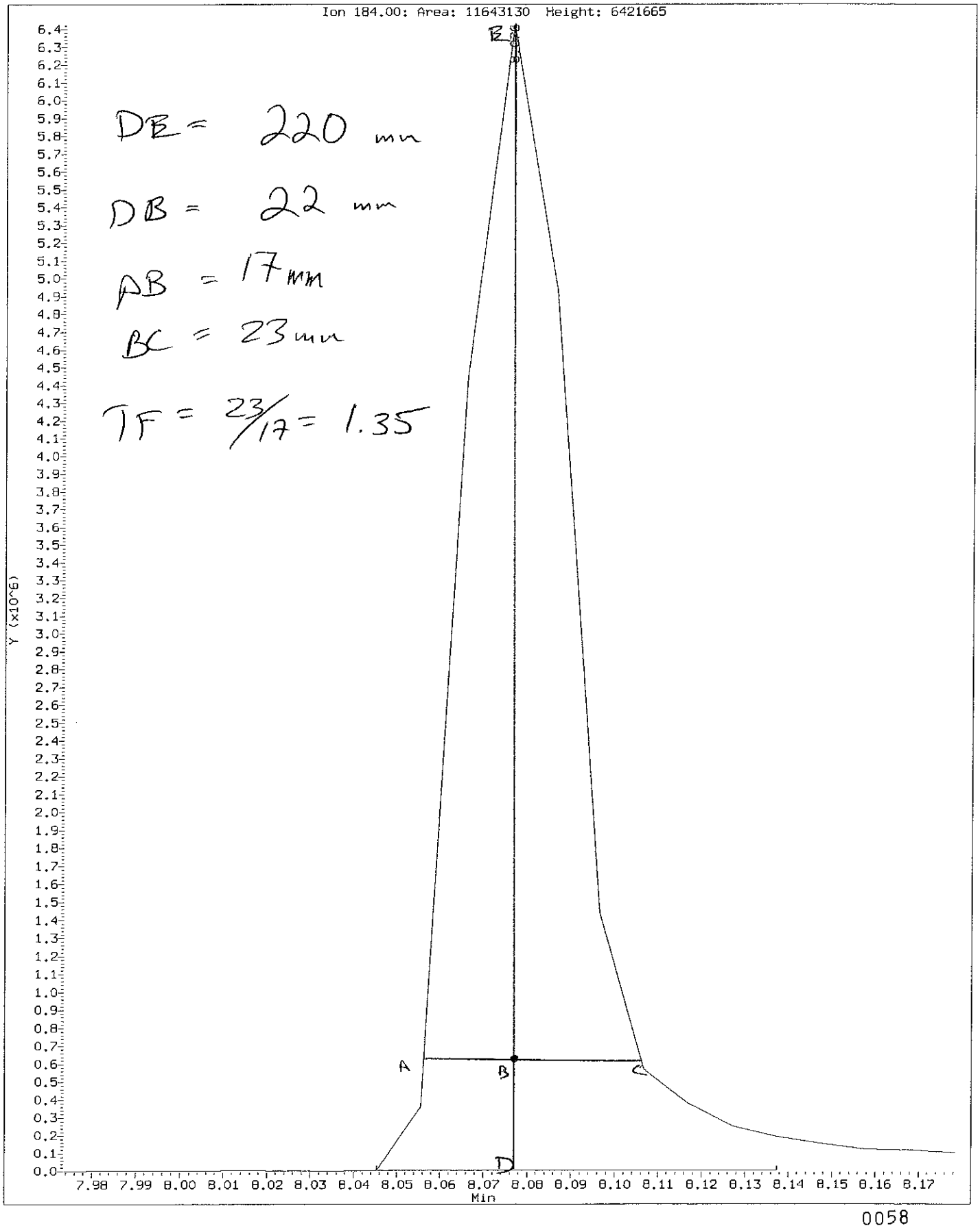
Data File: /chem3/nt1.i/20081008.b/ddt.b/df1008a.d
Injection Date: 08-OCT-2008 14:29
Instrument: nt1.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt1.i/20081008.b/ddt.b/df1008a.d
Injection Date: 08-OCT-2008 14:29
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt1.i/20081008.b/ddt.b/df1008a.d ARI ID: DF1008
Method: /chem3/nt1.i/20081008.b/ddt.b/sw846ddt.m Misc:
Analysis Date: 08-OCT-2008 14:29 Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	6.275	1695511
Benzidine	8.076	11643130
4,4'-DDE	8.362	15305
4,4'-DDD	8.772	227316
4,4'-DDT	9.130	4650520

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(\ 15305 + 227316) * 100}{(\ 15305 + 227316 + 4650520)}$$

DDT Percent Breakdown = 5.0 %

7B

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NU79 Project: EDDON BOATYARD

Instrument ID: NT1 Cont. Calib. Date: 10/21/08

Init. Calib. Date: 10/08/08 Cont. Calib. Time: 1311

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Tributyl Tin (Hexyl)	0.641	0.615	0.100	4.0	
Dibutyl Tin (Hexyl)	0.041	0.039	0.100	4.9	
Butyl Tin (Hexyl)	0.070	0.062	0.100	11.4	
Tetrabutyl Tin	0.748	0.781	0.100	-4.4	
Tripropyl Tin (Hexyl)	0.767	0.843	0.100	-9.9	
Tripentyl Tin (Hexyl)	0.062	0.056	0.100	9.7	

<- Outside QC limits

FORM VII SV-1

Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081021.b/cc1021a.d
Lab Smp Id: CC1021
Inj Date : 21-OCT-2008 13:11
Operator : VTS Inst ID: nt1.i
Smp Info : CC1021
Misc Info :
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081021.b/pw3ul.m
Meth Date : 21-Oct-2008 15:02 van Quant Type: ISTD
Cal Date : 08-OCT-2008 16:34 Cal File: ic1008f.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.597	7.597	(0.824)	11581	25.0000	27.49
	2 Tetrabutyl Tin	289	7.816	7.816	(0.848)	10729	25.0000	26.12
	3 Tributyl Tin (Hexyl)	319	8.573	8.573	(0.930)	8440	25.0000	23.98
*	4 Tetrapentyl Tin	333	9.222	9.222	(1.000)	109838	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.262	9.262	(0.915)	11084	50.0000	48.05
$	6 Tripentyl Tin (Hexyl)	347	9.556	9.556	(0.944)	15719	50.0000	44.77
	7 Butyl Tin (Hexyl)	347	9.893	9.893	(0.977)	17549	50.0000	44.65
*	8 p-Terphenyl-d14	244	10.122	10.122	(1.000)	113243	20.0000	

VTS
10.21.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: cc1021a.d
Lab Smp Id: CC1021
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081021.b/pw3ul.m
Misc Info:

Calibration Date: 21-OCT-2008
Calibration Time: 12:23

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	90951	45476	181902	109838	20.77
8 p-Terphenyl-d14	90721	45360	181442	113243	24.83

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.22	8.72	9.72	9.22	0.00
8 p-Terphenyl-d14	10.12	9.62	10.62	10.12	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20081021.b/cc1021a.d
Report Date: 21-Oct-2008 15:03

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt1.i
Lab File ID: cc1021a.d
Analysis Type:
Lab Sample ID: CC1021
Method: /chem3/nt1.i/20081021.b/pw3ul.m

Injection Date: 21-OCT-2008 13:11
Init. Cal. Date(s): 08-OCT-2008 08-OCT-2008
Init. Cal. Times: 14:49 16:34
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tripropyl Tin (Hexyl)	0.76701	0.84350	0.005	-9.97244	20.00000	Averaged
2 Tetrabutyl Tin	0.74789	0.78148	0.010	-4.49159	20.00000	Averaged
3 Tributyl Tin (Hexyl)	0.64089	0.61478	0.005	4.07451	20.00000	Averaged
5 Dibutyl Tin (Hexyl)	0.04074	0.03915	0.005	3.89715	20.00000	Averaged
$ 6 Tripentyl Tin (Hexyl)	0.06201	0.05553	0.010	10.45579	20.00000	Averaged
7 Butyl Tin (Hexyl)	0.06941	0.06199	0.005	10.69169	20.00000	Averaged

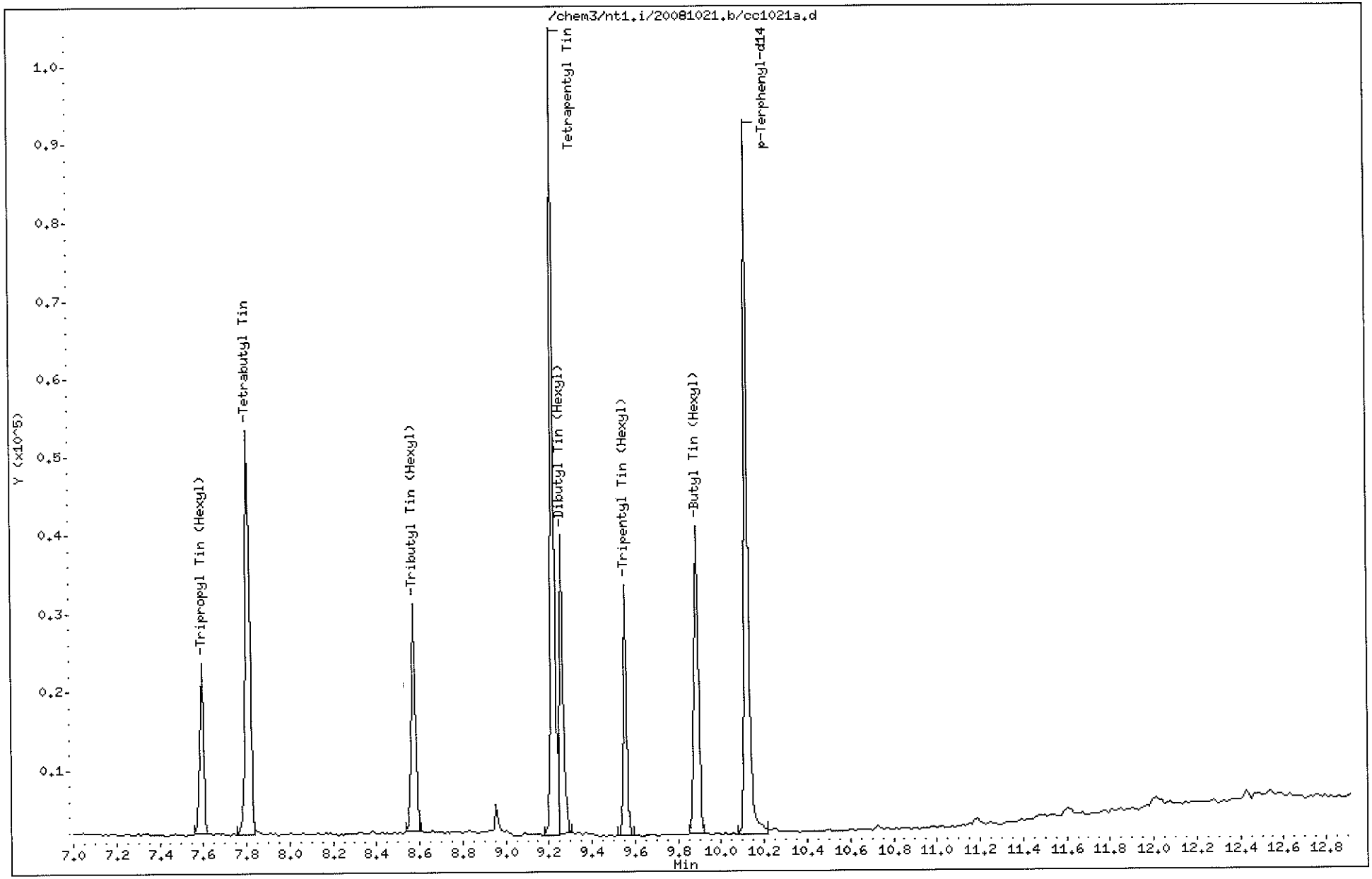
Data File: /chem3/nt1.i/20081021.b/cc1021a.d
Date : 21-OCT-2008 13:11
Client ID:
Sample Info: CC1021

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

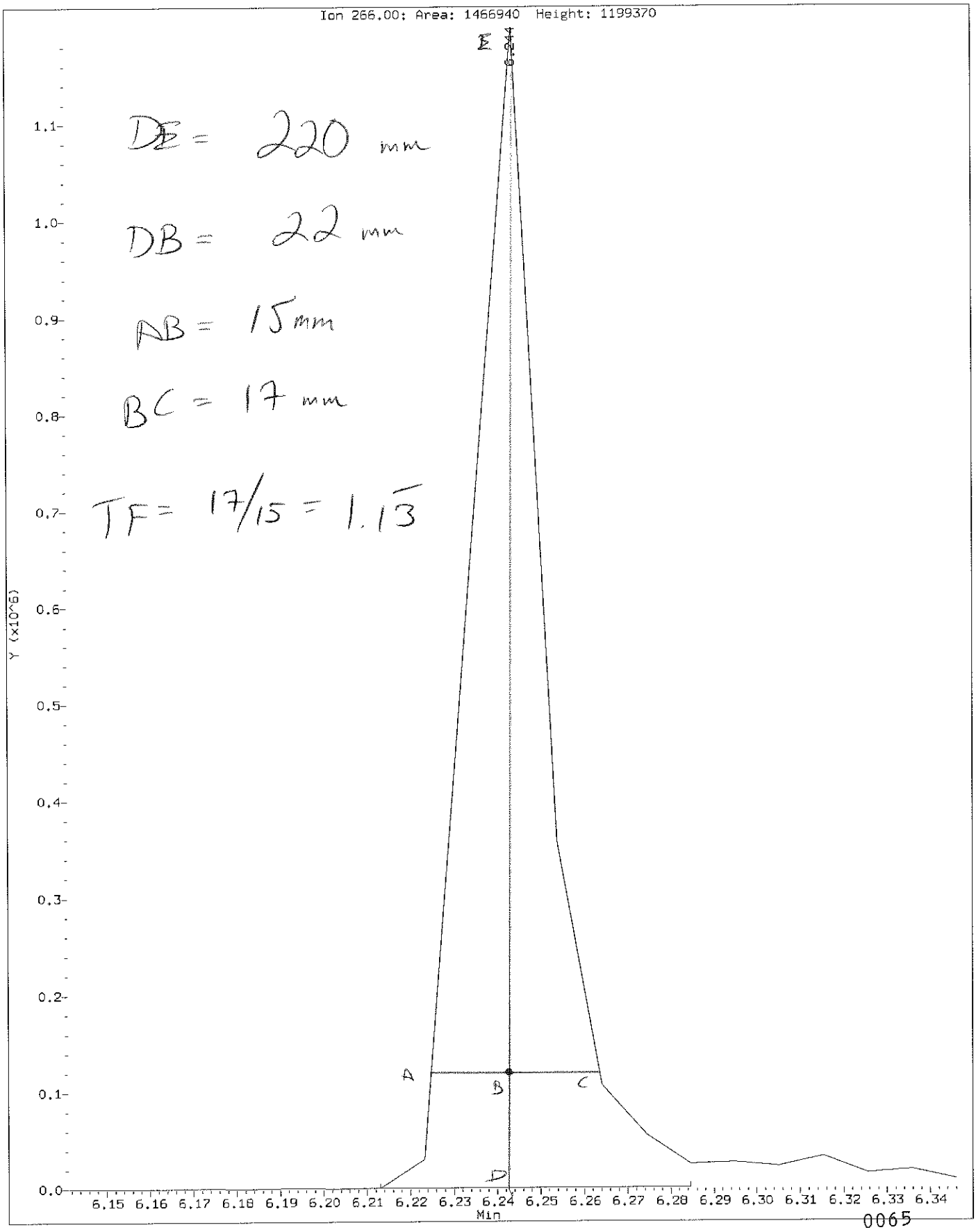
Column phase: ZB-5

0064



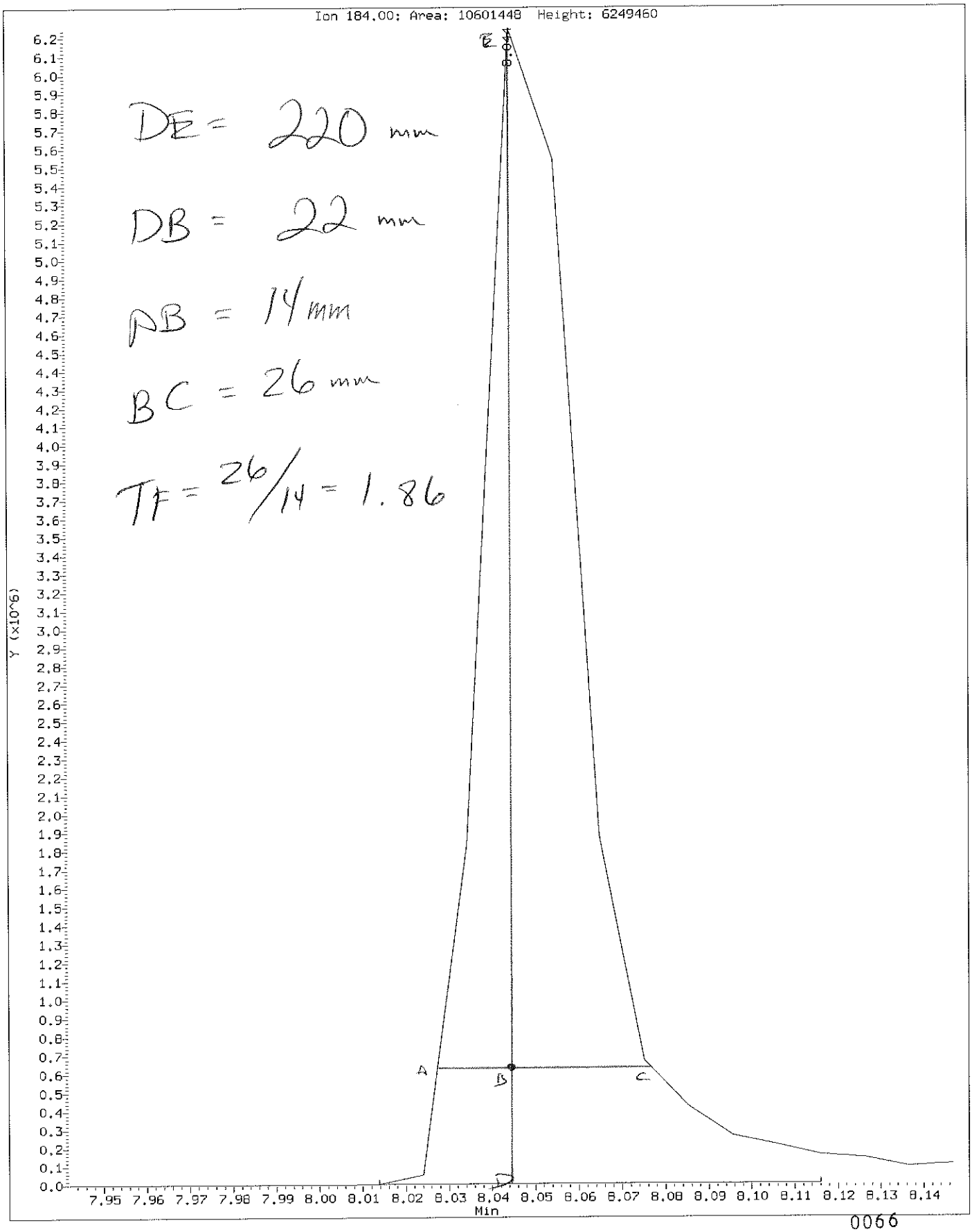
Data File: /chem3/nt1.i/20081021.b/ddt.b/df1021a.d
Injection Date: 21-OCT-2008 12:52
Instrument: nt1.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt1.i/20081021.b/ddt.b/df1021a.d
Injection Date: 21-OCT-2008 12:52
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt1.i/20081021.b/ddt.b/df1021a.d
Method: /chem3/nt1.i/20081021.b/ddt.b/sw846ddt.m
Analysis Date: 21-OCT-2008 12:52

ARI ID: DF1021
Misc:
Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	6.244	1466940
Benzidine	8.044	10601448
4,4'-DDE	8.341	5524
4,4'-DDD	8.740	142710
4,4'-DDT	9.098	1946232

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(\ 5524 + 142710) * 100}{(\ 5524 + 142710 + 1946232)}$$

DDT Percent Breakdown = 7.1 %

TBT Analysis
QC Raw Data

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NU79

Prepared
By

Analytical Resources, Inc.

Data File: /chem3/nt1.i/20081008.b/df1008a.d

Date : 08-OCT-2008 14:29

Client ID:

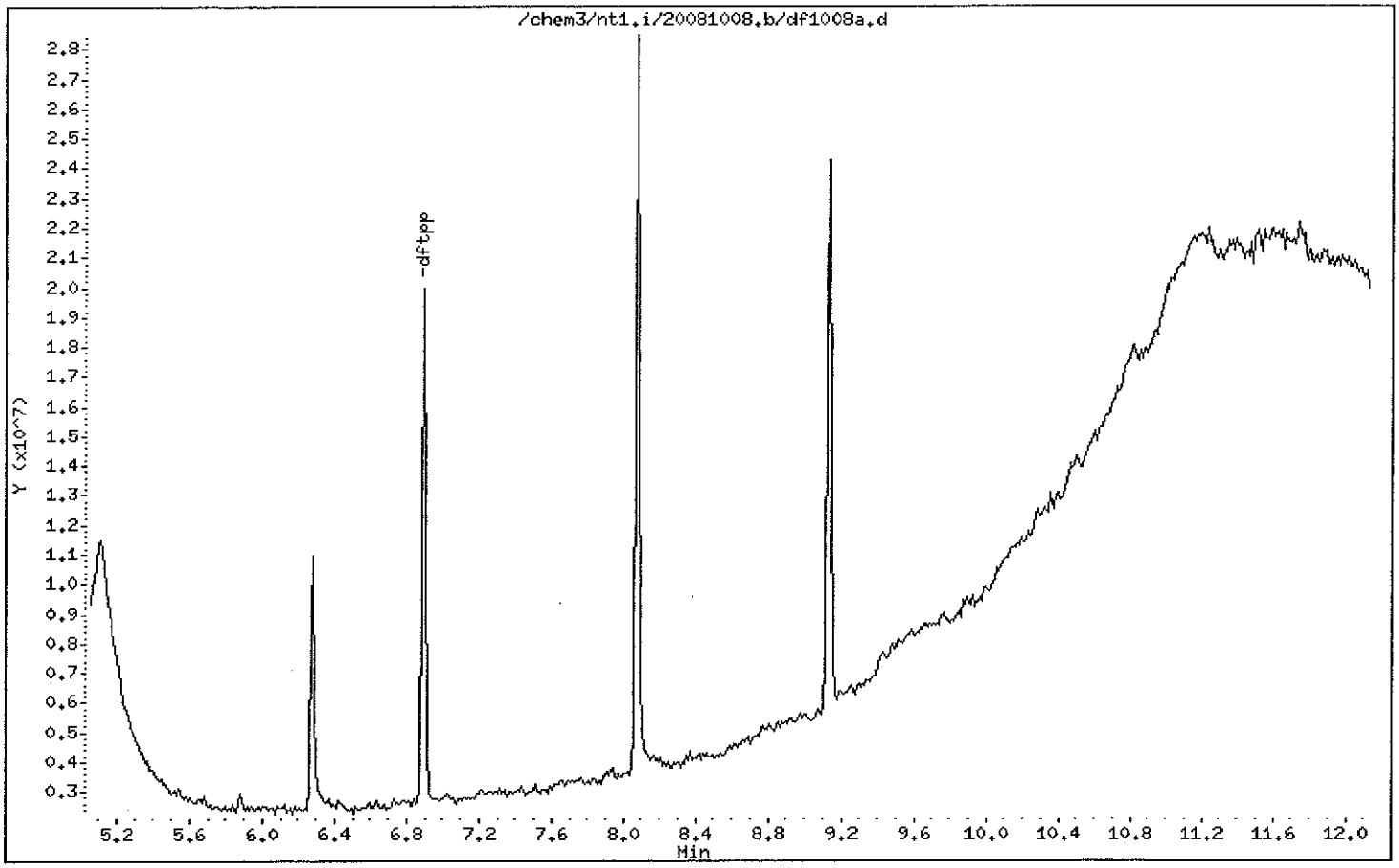
Instrument: nt1.i

Sample Info: DF1008

Operator: VTS

Column phase:

Column diameter: 0.25



Data File: /chem3/nt1.i/20081008.b/df1008a.d

Date : 08-OCT-2008 14:29

Client ID:

Instrument: nt1.i

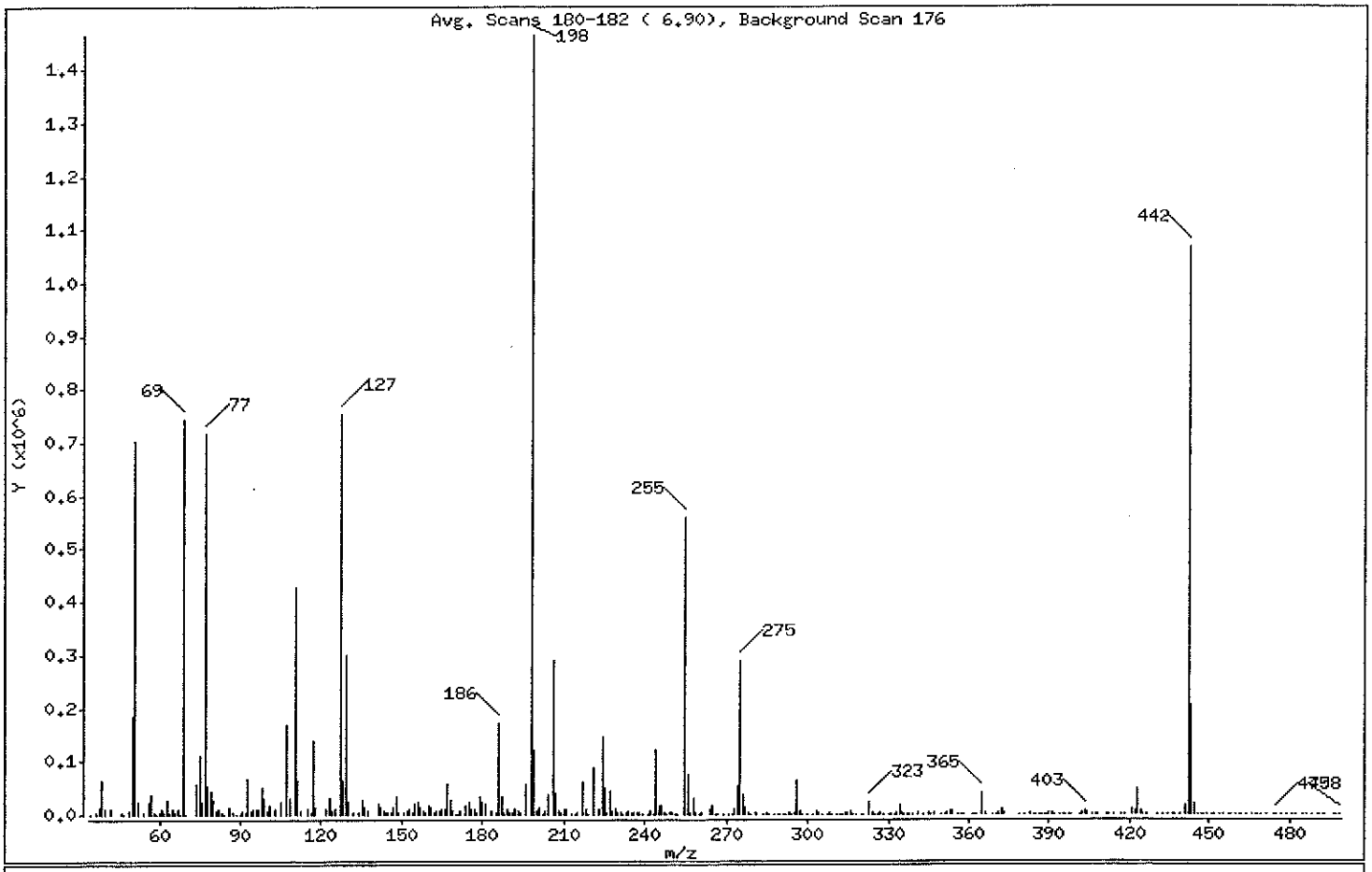
Sample Info: DF1008

Operator: VTS

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	48.12
68	Less than 2.00% of mass 69	0.05 (0.10)
69	Mass 69 relative abundance	50.82
70	Less than 2.00% of mass 69	0.05 (0.10)
127	25.00 - 75.00% of mass 198	51.45
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	8.23
275	10.00 - 30.00% of mass 198	19.71
365	Greater than 0.75% of mass 198	2.65
441	Present, but less than mass 443	1.24
442	40.00 - 110.00% of mass 198	72.97
443	15.00 - 24.00% of mass 442	14.04 (19.24)

Data File: /chem3/nt1.i/20081008.b/df1008a.d

Date : 08-OCT-2008 14:29

Client ID:

Instrument: nt1.i

Sample Info: DF1008

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1008a.d
Spectrum: Avg. Scans 180-182 (6.90), Background Scan 176
Location of Maximum: 198.00
Number of points: 351

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	1264	152.00	5746	251.00	1434	365.00	38856
37.00	2661	153.00	9876	252.00	1653	366.00	4950
38.00	13110	154.00	4945	255.00	559040	369.00	832
39.00	64616	155.00	20688	256.00	74744	370.00	1286
40.00	10576	156.00	22168	257.00	2430	371.00	2564
42.00	9197	157.00	12699	258.00	30032	372.00	11390
46.00	2813	158.00	6208	259.00	3517	373.00	2112
47.00	908	159.00	2670	260.00	359	379.00	540
49.00	5820	160.00	15472	261.00	1925	381.00	51
50.00	185536	161.00	13619	264.00	8694	383.00	3981
51.00	704832	162.00	2566	265.00	15937	384.00	212
52.00	22608	163.00	5081	266.00	1081	385.00	165
54.00	2619	164.00	6985	267.00	1104	386.00	580
56.00	25128	165.00	8486	269.00	304	387.00	505
57.00	36392	166.00	8502	271.00	597	388.00	188
58.00	4110	167.00	55728	272.00	1401	389.00	1076
59.00	1021	168.00	25480	273.00	11507	390.00	2006
60.00	3679	169.00	5274	274.00	54632	391.00	2083
61.00	11778	170.00	989	275.00	288640	392.00	1118
62.00	3422	171.00	1585	276.00	37760	394.00	616
63.00	26432	172.00	6610	277.00	14936	395.00	77
64.00	3221	174.00	17248	278.00	3353	396.00	659
65.00	9955	175.00	24256	279.00	669	397.00	614
66.00	4664	176.00	10800	281.00	1815	398.00	262
67.00	10178	177.00	9438	284.00	1279	401.00	1339
68.00	768	178.00	1711	285.00	2826	402.00	2881
69.00	744256	179.00	33296	286.00	815	403.00	6978
70.00	746	180.00	23864	288.00	254	404.00	2847
74.00	57880	181.00	21368	289.00	1467	406.00	1443
75.00	110784	183.00	8295	290.00	772	407.00	82
76.00	24848	185.00	3893	291.00	223	408.00	155
77.00	715584	186.00	172352	292.00	774	411.00	231
78.00	53888	187.00	34648	293.00	2557	412.00	219
79.00	43664	188.00	4659	294.00	1376	414.00	124
80.00	27944	189.00	9612	295.00	1769	417.00	158

Data File: /chem3/nt1.i/20081008.b/df1008a.d

Date : 08-OCT-2008 14:29

Client ID:

Instrument: nt1.i

Sample Info: DF1008

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1008a.d
Spectrum: Avg. Scans 180-182 (6.90), Background Scan 176
Location of Maximum: 198.00
Number of points: 351

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	7293	190.00	3787	296.00	63360	418.00	242
82.00	8488	191.00	3441	297.00	5365	421.00	10886
83.00	2618	192.00	10633	298.00	392	422.00	6161
84.00	485	193.00	7747	300.00	133	423.00	45584
86.00	14221	194.00	4897	302.00	224	424.00	8125
87.00	2066	196.00	56576	303.00	7624	425.00	1260
89.00	1603	198.00	1464320	304.00	4892	426.00	225
90.00	341	199.00	120592	305.00	1121	430.00	348
91.00	8238	200.00	7793	307.00	870	432.00	853
92.00	4104	201.00	11956	308.00	3529	434.00	369
93.00	65696	202.00	822	309.00	191	436.00	133
94.00	8201	203.00	5846	311.00	193	437.00	107
95.00	9858	204.00	35768	312.00	304	439.00	71
96.00	8489	206.00	290112	313.00	1227	441.00	18224
97.00	10458	207.00	39328	314.00	2326	442.00	1068544
98.00	50624	208.00	8085	315.00	1850	443.00	205568
99.00	31544	209.00	2398	316.00	6282	444.00	20024
100.00	5065	210.00	9500	317.00	619	446.00	205
101.00	18392	211.00	11521	318.00	821	447.00	277
103.00	10523	213.00	978	320.00	274	448.00	302
105.00	25096	214.00	447	321.00	1143	449.00	317
107.00	167488	215.00	2898	323.00	23384	451.00	432
108.00	31320	217.00	61264	324.00	4236	452.00	1007
110.00	427392	218.00	11096	325.00	262	454.00	181
111.00	65200	219.00	843	326.00	1236	455.00	365
112.00	8209	221.00	88288	327.00	1706	457.00	361
115.00	8427	223.00	9724	328.00	582	458.00	588
116.00	1817	224.00	144960	330.00	758	460.00	656
117.00	136512	225.00	48968	331.00	428	461.00	219
118.00	13119	226.00	3067	332.00	1346	462.00	84
122.00	9038	227.00	44160	333.00	2283	464.00	342
123.00	30776	228.00	7570	334.00	17680	466.00	190
124.00	5492	229.00	10002	335.00	3993	467.00	384
125.00	9796	230.00	1849	336.00	651	468.00	229
127.00	753472	231.00	3100	337.00	580	469.00	291

Data File: /chem3/nt1.i/20081008.b/df1008a.d

Date : 08-OCT-2008 14:29

Client ID:

Instrument: nt1.i

Sample Info: DF1008

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1008a.d
Spectrum: Avg. Scans 180-182 (6.90), Background Scan 176
Location of Maximum: 198.00
Number of points: 351

m/z	Y	m/z	Y	m/z	Y	m/z	Y
128.00	62744	232.00	1391	338.00	258	471.00	119
129.00	298816	233.00	2710	339.00	1219	474.00	628
130.00	23600	234.00	5822	341.00	2215	475.00	1079
132.00	2186	235.00	1897	343.00	594	477.00	76
134.00	3403	236.00	2440	345.00	4559	479.00	647
135.00	26256	237.00	1846	346.00	801	481.00	203
136.00	11921	238.00	1831	347.00	1816	482.00	510
137.00	7284	239.00	1660	350.00	377	485.00	129
141.00	20856	241.00	1503	351.00	573	486.00	170
142.00	13042	242.00	7067	352.00	2380	488.00	281
143.00	6969	243.00	978	353.00	5647	490.00	133
144.00	2997	244.00	122640	354.00	6698	491.00	308
145.00	4363	245.00	16464	356.00	301	492.00	215
146.00	3833	246.00	16198	357.00	450	493.00	1067
147.00	14892	247.00	1708	358.00	304	496.00	420
148.00	34312	248.00	824	361.00	580	497.00	185
149.00	4869	249.00	4051	362.00	319	498.00	294
151.00	3435	250.00	3197	363.00	150		

Data File: /chem3/nt1.i/20081021.b/df1021a.d

Date : 21-OCT-2008 12:52

Client ID:

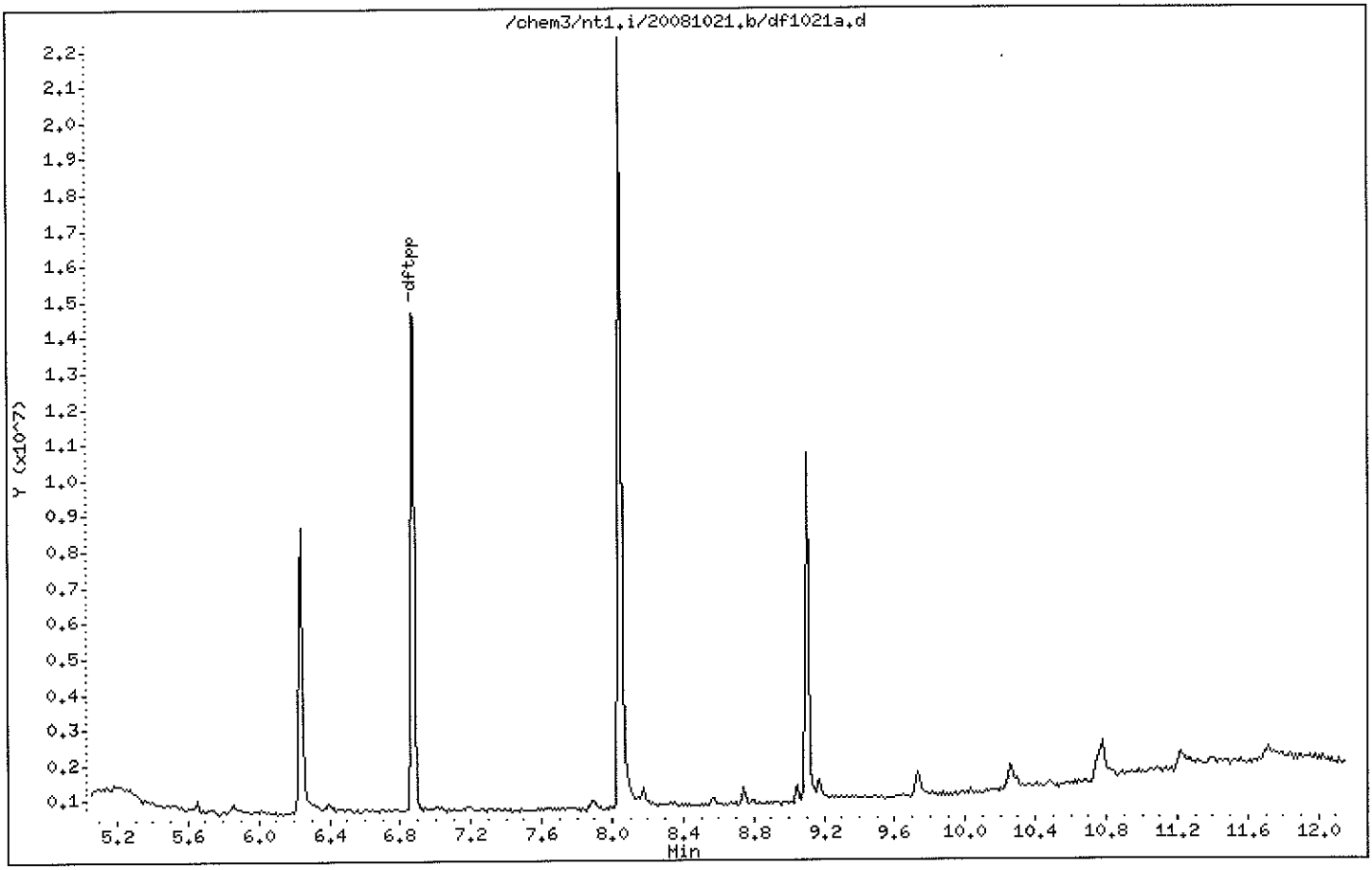
Instrument: nt1.i

Sample Info: DF1021

Operator: VTS

Column phase:

Column diameter: 0.25



Data File: /chem3/nt1.i/20081021.b/df1021a.d

Date : 21-OCT-2008 12:52

Client ID:

Sample Info: DF1021

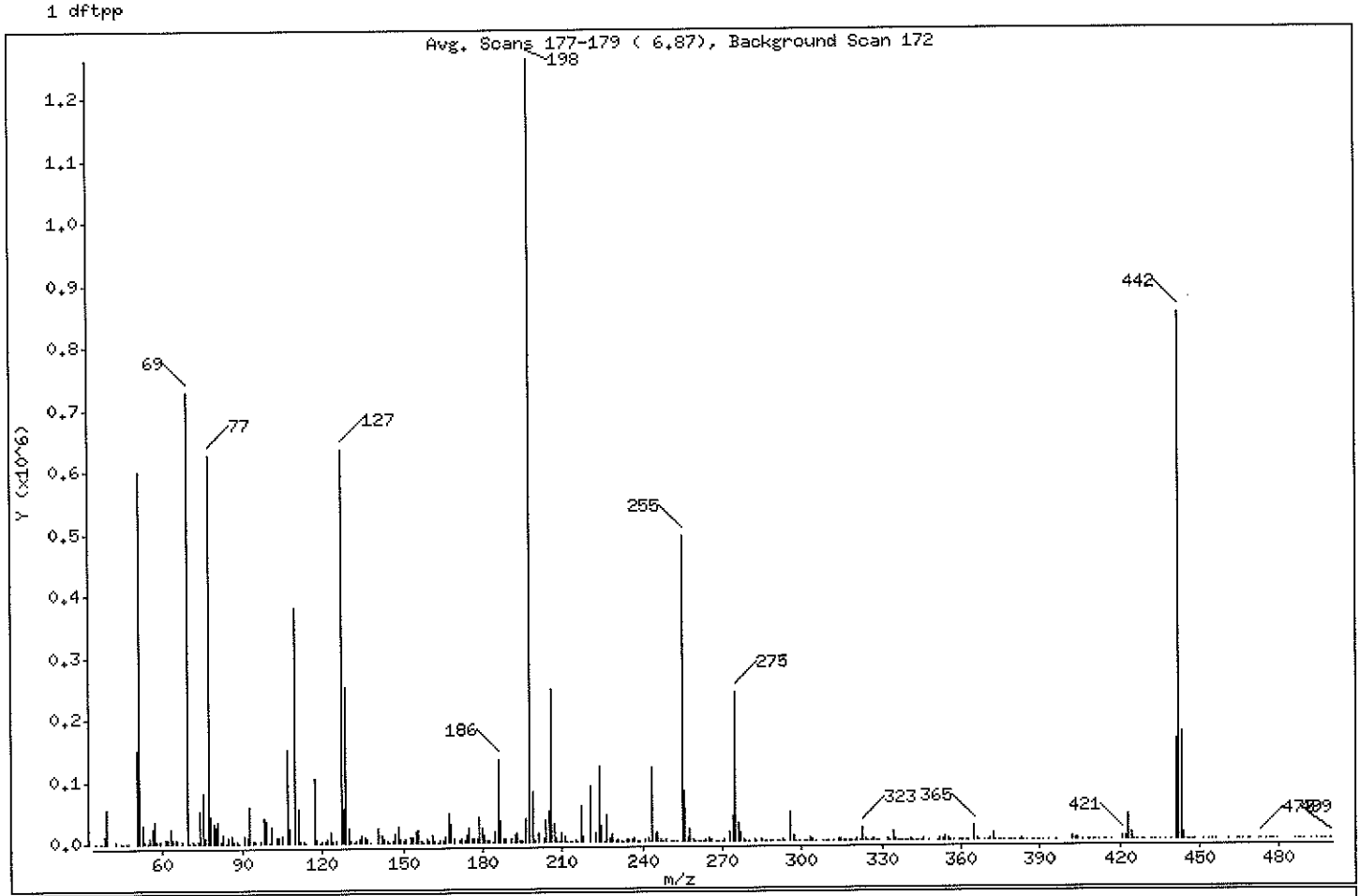
Instrument: nt1.i

Operator: VTS

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	47.68
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	57.59
70	Less than 2.00% of mass 69	0.05 (0.08)
127	25.00 - 75.00% of mass 198	50.25
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.39
275	10.00 - 30.00% of mass 198	19.04
365	Greater than 0.75% of mass 198	1.74
441	Present, but less than mass 443	12.76
442	40.00 - 110.00% of mass 198	67.25
443	15.00 - 24.00% of mass 442	13.81 (20.53)

Data File: /chem3/nt1.i/20081021.b/df1021a.d

Date : 21-OCT-2008 12:52

Client ID:

Instrument: nt1.i

Sample Info: DF1021

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1021a.d
Spectrum: Avg. Scans 177-179 (6.87), Background Scan 172
Location of Maximum: 198.00
Number of points: 366

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	1432	146.00	2643	247.00	2757	357.00	398
37.00	19	147.00	13093	248.00	354	359.00	444
38.00	10305	148.00	26184	249.00	2239	360.00	205
39.00	55216	149.00	4946	251.00	850	361.00	743
42.00	1497	150.00	3356	252.00	1202	362.00	215
44.00	1322	151.00	5863	253.00	1064	363.00	269
45.00	993	153.00	9049	255.00	493184	365.00	21960
46.00	1438	154.00	8074	256.00	80896	366.00	1853
47.00	467	155.00	17864	257.00	5421	367.00	307
50.00	151808	156.00	19176	258.00	20280	369.00	88
51.00	601472	157.00	3671	259.00	4051	370.00	1118
52.00	30216	158.00	564	260.00	225	371.00	1516
53.00	1658	159.00	5725	261.00	1266	372.00	10395
54.00	307	160.00	4007	262.00	614	373.00	1326
55.00	7274	161.00	10886	263.00	500	374.00	428
56.00	22824	162.00	2793	264.00	1989	375.00	355
57.00	34504	163.00	788	265.00	5840	376.00	288
58.00	1900	164.00	4024	266.00	4211	378.00	150
59.00	2645	165.00	1681	268.00	1351	379.00	353
61.00	5310	166.00	8112	269.00	591	380.00	299
62.00	6331	167.00	47288	270.00	692	382.00	1049
63.00	24440	168.00	29704	271.00	2068	383.00	2833
64.00	4919	169.00	5875	273.00	14934	384.00	399
65.00	6689	171.00	1690	274.00	39264	385.00	316
67.00	2426	172.00	7041	275.00	240192	387.00	386
69.00	726400	173.00	1934	276.00	29176	388.00	145
70.00	617	174.00	11331	277.00	14421	389.00	818
71.00	2762	175.00	22064	278.00	2858	390.00	247
72.00	1151	176.00	6004	279.00	296	391.00	802
73.00	2331	177.00	6234	280.00	1030	393.00	1049
74.00	52032	178.00	4807	282.00	2002	396.00	193
75.00	82616	179.00	40112	283.00	906	402.00	4702
76.00	7945	180.00	23144	285.00	2976	403.00	4014
77.00	625536	181.00	11164	286.00	795	404.00	1734
78.00	44024	182.00	1837	287.00	108	406.00	304

Data File: /chem3/nt1.i/20081021.b/df1021a.d

Date : 21-OCT-2008 12:52

Client ID:

Instrument: nt1.i

Sample Info: DF1021

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1021a.d

Spectrum: Avg. Scans 177-179 (6.87), Background Scan 172

Location of Maximum: 198.00

Number of points: 366

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	31568	183.00	1669	288.00	262	408.00	123
80.00	27328	184.00	1262	289.00	1287	409.00	155
81.00	34760	185.00	16776	291.00	233	410.00	411
82.00	1635	186.00	134272	292.00	935	411.00	277
83.00	15790	187.00	35224	293.00	3629	412.00	136
84.00	261	188.00	5638	294.00	367	414.00	173
85.00	9345	189.00	5887	296.00	47136	415.00	737
86.00	12481	191.00	4418	297.00	8776	417.00	215
87.00	4263	192.00	10339	298.00	61	421.00	5112
88.00	2322	193.00	13826	299.00	261	422.00	6722
89.00	168	194.00	1480	301.00	96	423.00	40344
91.00	10243	195.00	1675	302.00	911	424.00	10994
92.00	8331	196.00	38568	303.00	6731	425.00	642
93.00	57576	198.00	1261056	304.00	2077	426.00	292
94.00	3406	199.00	80656	305.00	614	428.00	122
95.00	2514	200.00	3906	308.00	1110	429.00	111
97.00	3131	201.00	14135	309.00	1009	432.00	182
98.00	41904	203.00	5271	310.00	722	433.00	70
99.00	34240	204.00	35320	312.00	863	435.00	209
100.00	1030	205.00	49464	314.00	2634	437.00	57
101.00	25576	206.00	246080	315.00	4004	439.00	374
103.00	8034	207.00	28232	316.00	474	441.00	160896
104.00	7998	208.00	7011	317.00	670	442.00	848256
105.00	11619	209.00	1352	318.00	155	443.00	174144
107.00	149376	210.00	13203	319.00	409	444.00	11675
108.00	23232	211.00	8401	320.00	837	445.00	1306
110.00	380352	212.00	1410	321.00	1843	446.00	927
111.00	54056	213.00	724	322.00	254	447.00	668
112.00	3872	214.00	719	323.00	20152	448.00	252
113.00	2058	215.00	1574	324.00	2899	451.00	354
114.00	503	216.00	289	325.00	452	453.00	92
117.00	104984	217.00	59344	326.00	772	455.00	271
118.00	5245	218.00	7445	327.00	2128	456.00	109
119.00	268	221.00	89592	328.00	1425	461.00	43
120.00	2386	223.00	14231	329.00	266	464.00	233

Data File: /chem3/nt1.i/20081021.b/df1021a.d

Date : 21-OCT-2008 12:52

Client ID:

Instrument: nt1.i

Sample Info: DF1021

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1021a.d

Spectrum: Avg. Scans 177-179 (6.87), Background Scan 172

Location of Maximum: 198.00

Number of points: 366

m/z	Y	m/z	Y	m/z	Y	m/z	Y
121.00	1969	224.00	123128	332.00	2831	465.00	69
122.00	4895	225.00	26000	333.00	136	466.00	146
123.00	17616	226.00	1001	334.00	13510	468.00	302
124.00	3469	227.00	43784	335.00	1773	469.00	103
125.00	3804	228.00	5242	336.00	991	472.00	508
127.00	633856	229.00	10270	337.00	89	473.00	607
128.00	55256	230.00	314	338.00	74	475.00	222
129.00	252928	231.00	4300	339.00	683	476.00	275
130.00	23352	232.00	762	340.00	489	477.00	186
131.00	4063	233.00	1143	341.00	3668	478.00	400
132.00	814	234.00	1485	342.00	301	479.00	89
133.00	2124	235.00	3297	343.00	506	486.00	167
134.00	5818	236.00	2086	344.00	586	487.00	108
135.00	12748	237.00	6016	345.00	477	488.00	67
136.00	7511	238.00	631	346.00	3269	489.00	89
137.00	6811	239.00	1298	348.00	212	492.00	179
138.00	876	241.00	3058	351.00	1102	494.00	40
141.00	23096	242.00	4774	352.00	4080	496.00	311
142.00	11556	243.00	219	353.00	2414	497.00	117
143.00	4950	244.00	118184	354.00	4442	499.00	281
144.00	2021	245.00	10385	355.00	1657		
145.00	150	246.00	13458	356.00	976		

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS

Sample ID: MB-101708
METHOD BLANK

Lab Sample ID: MB-101708
LIMS ID: 08-27935
Matrix: Water
Data Release Authorized:
Reported: 10/21/08

QC Report No: NU79-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: NA
Date Sampled: NA
Date Received: NA

Date Extracted: 10/17/08
Date Analyzed: 10/21/08 13:38
Instrument/Analyst: NT1/VTS

Sample Amount: 100 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyl Tin Ion	0.008	< 0.008	U
DBT_ION	Dibutyl Tin Ion	0.012	< 0.012	U
BT_ION	Butyl Tin Ion	0.008	< 0.008	U

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	82.7%
Tripentyl Tin Chloride	82.1%

Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081021.b/nu79mb.d
Lab Smp Id: NU79MBW1 Client Smp ID: NU79MBW1
Inj Date : 21-OCT-2008 13:38
Operator : VTS Inst ID: nt1.i
Smp Info : NU79MBW1
Misc Info : 08-27935
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081021.b/pw3ul.m
Meth Date : 21-Oct-2008 15:02 van Quant Type: ISTD
Cal Date : 08-OCT-2008 16:34 Cal File: ic1008f.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	0.50000	Final Extract Volume (mL)
Vo	0.04000	Volume Extracted (L)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ug/L)
$	1 Tripropyl Tin (Hexyl)	291	7.596	7.597	(0.824)	12682	24.2815	303.5
	2 Tetrabutyl Tin	289	Compound Not Detected.					
	3 Tributyl Tin (Hexyl)	319	Compound Not Detected.					
*	4 Tetrapentyl Tin	333	9.222	9.222	(1.000)	136188	200.000	
	5 Dibutyl Tin (Hexyl)	347	Compound Not Detected.					
$	6 Tripentyl Tin (Hexyl)	347	9.555	9.556	(0.944)	9544	23.2628	290.8
	7 Butyl Tin (Hexyl)	347	Compound Not Detected.					
*	8 p-Terphenyl-d14	244	10.121	10.122	(1.000)	132325	20.0000	

VTS 10-21-2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: nu79mb.d
Lab Smp Id: NU79MBW1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081021.b/pw3ul.m
Misc Info: 08-27935

Calibration Date: 21-OCT-2008
Calibration Time: 13:11
Client Smp ID: NU79MBW1
Level: LOW
Sample Type: Liquid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	109838	54919	219676	136188	23.99
8 p-Terphenyl-d14	113243	56622	226486	132325	16.85

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.22	8.72	9.72	9.22	0.00
8 p-Terphenyl-d14	10.12	9.62	10.62	10.12	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: LIQUID
Lab Smp Id: NU79MBW1
Level: LOW
Data Type: MS DATA
SpikeList File: PW.spk
Sublist File: PW.sub
Method File: /chem3/nt1.i/20081021.b/pw3ul.m
Misc Info: 08-27935

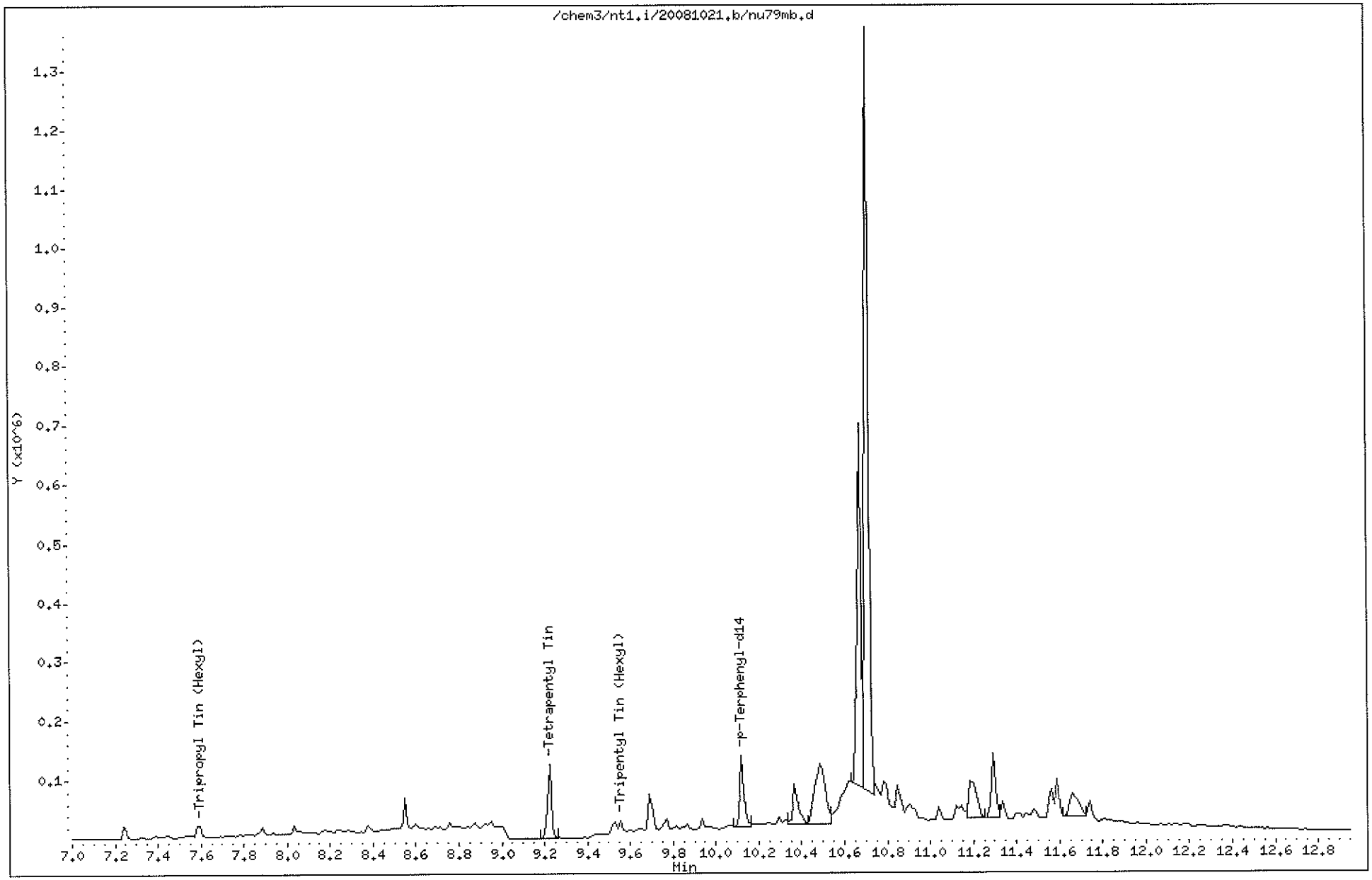
Client SDG: NU79
Fraction: SV
Client Smp ID: NU79MBW1
Operator: VTS
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 1 Tripropyl Tin (Hex	312.5	303.5	97.13	30-108
$ 6 Tripentyl Tin (Hex	312.5	290.8	93.05	23-97

Data File: /chem3/nt1.i/20081021.b/nu79mb.d
Date : 21-OCT-2008 13:38
Client ID: NU79MBW1
Sample Info: NU79MBW1
Purge Volume: 0.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

0083



Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081021.b/nu79sb.d
Lab Smp Id: NU79LCSW1 Client Smp ID: NU79LCSW1
Inj Date : 21-OCT-2008 13:58
Operator : VTS Inst ID: nt1.i
Smp Info : NU79LCSW1
Misc Info : 08-27935
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081021.b/pw3ul.m
Meth Date : 21-Oct-2008 15:02 van Quant Type: ISTD
Cal Date : 08-OCT-2008 16:34 Cal File: ic1008f.d
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	0.50000	Final Extract Volume (mL)
Vo	0.04000	Volume Extracted (L)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ug/L)
$	1 Tripropyl Tin (Hexyl)	291	7.585	7.597	(0.823)	16617	28.6146	357.7(R)
	2 Tetrabutyl Tin	289	Compound Not Detected.					
	3 Tributyl Tin (Hexyl)	319	8.573	8.573	(0.930)	12678	26.1280	326.6
*	4 Tetrapentyl Tin	333	9.221	9.222	(1.000)	151423	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.262	9.262	(0.915)	16665	55.2048	690.1
$	6 Tripentyl Tin (Hexyl)	347	9.556	9.556	(0.944)	8124	17.6816	221.0
	7 Butyl Tin (Hexyl)	347	9.893	9.893	(0.977)	12549	24.4008	305.0
*	8 p-Terphenyl-d14	244	10.122	10.122	(1.000)	148191	20.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

VTS
10-21-2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: nu79sb.d
Lab Smp Id: NU79LCSW1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081021.b/pw3ul.m
Misc Info: 08-27935

Calibration Date: 21-OCT-2008
Calibration Time: 13:11
Client Smp ID: NU79LCSW1
Level: LOW
Sample Type: Liquid

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	109838	54919	219676	151423	37.86
8 p-Terphenyl-d14	113243	56622	226486	148191	30.86

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.22	8.72	9.72	9.22	0.00
8 p-Terphenyl-d14	10.12	9.62	10.62	10.12	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: LIQUID
Lab Smp Id: NU79LCSW1
Level: LOW
Data Type: MS DATA
SpikeList File: PW.spk
Sublist File: PW.sub
Method File: /chem3/nt1.i/20081021.b/pw3ul.m
Misc Info: 08-27935

Client SDG: NU79
Fraction: SV
Client Smp ID: NU79LCSW1
Operator: VTS
SampleType: LCS
Quant Type: ISTD

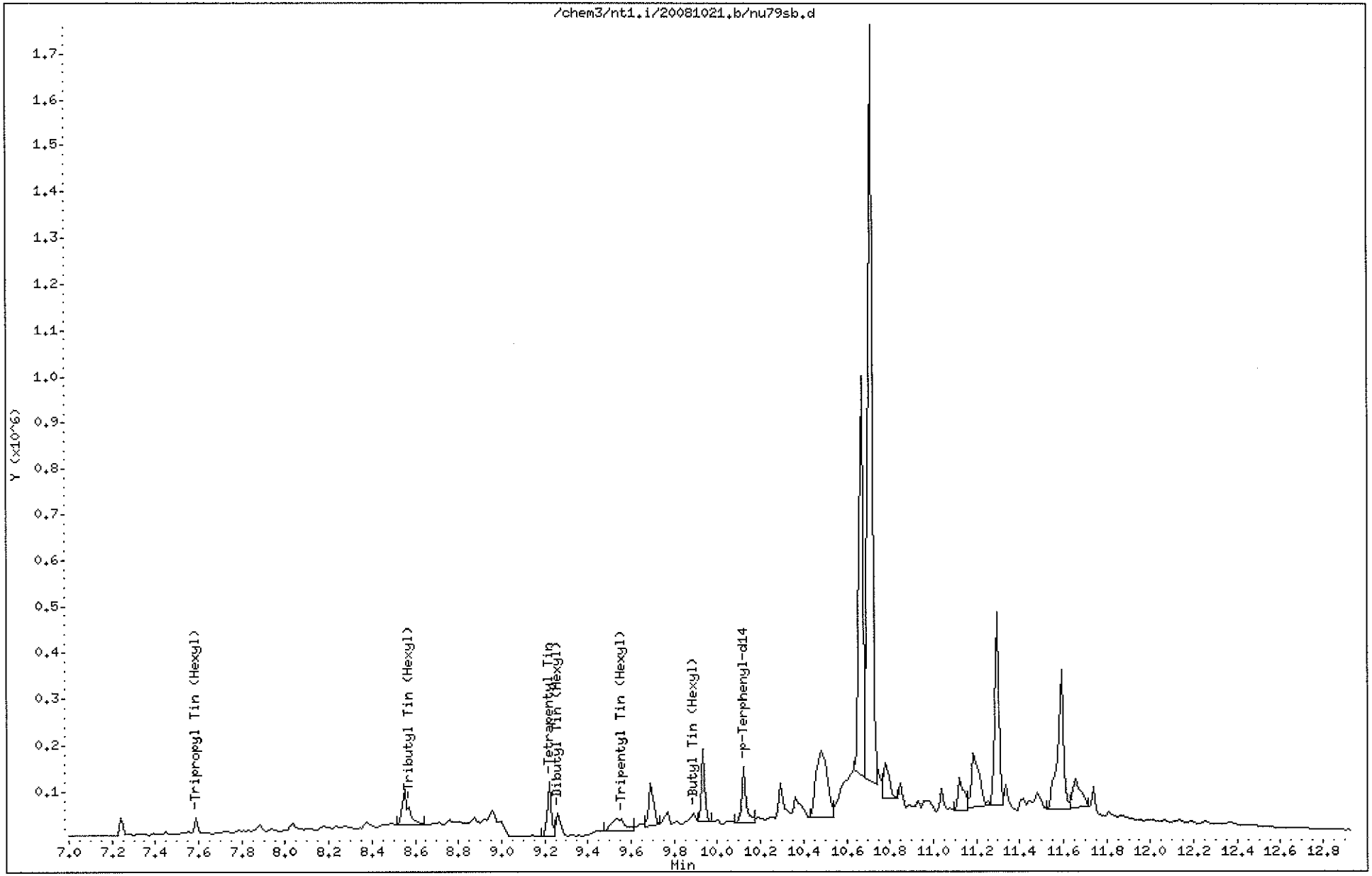
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
3 Tributyl Tin (Hexy	312.5	326.6	104.51	10-147
5 Dibutyl Tin (Hexyl	625.0	690.1	110.41	10-142
7 Butyl Tin (Hexyl)	625.0	305.0	48.80	10-91

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 1 Tripropyl Tin (Hex	312.5	357.7	114.46*	30-108
$ 6 Tripentyl Tin (Hex	312.5	221.0	70.73	23-97

Data File: /chem3/nt1.i/20081021.b/nu79sb.d
Date : 21-OCT-2008 13:58
Client ID: NU79LCSW1
Sample Info: NU79LCSW1
Purge Volume: 0.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

0087



TBT Analysis
Extraction Bench Sheets and Run Logs

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NU79

Prepared
By

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

Tributyl Tin – Pore Water
Separatory Funnel (3510C) (SOP # 316S)

RUSH

Preparation Test TBT # 2

Pore Water

ARI Job No(s) NU479

Batch set up by: [illegible]

Bottle #	Extraction Requirements	Date	Volume Extracted	KD	Turbo Vap 1 (2) 3	(REQ) Derivitized (1:1) (Y) N	Turbo Vap 1 2 3	(REQ) Alumina Clean (1:1) (Y) N	Turbo Vap 1 (2) 3	Final Effective Volume	Volume to Lab	Comments
	NU479 MBW	10/17/08	100mL			4mL		1mL		0.5mL	0.5mL	Blanks= Sea H20
	↓ SBW		↓			↓		↓		↓	↓	↓
	~~SBWDup.~~		↓			↓		↓		↓	↓	↓
1	NU479 A	verified	100mL									
1	Adup	↓	↓									
				MH								
Analyst/Date:	PD 10/17/08			10/17	MP 10/20/08	MP 10/20/08	MP	MP 10/20/08	MP 10/20/08	MP 10/20/08	MP 10/20/08	

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	J	50µL	12/15/08	PD	AR
Spike	9	50µL	12/15/08	PD	AR
Extraction Time:	10:12				

SPECIAL INSTRUCTIONS:

1. Rinse all glassware with 0.02% Tropolone.
2. Pre-wash "Sea Water" blanks with 30mL DCM (2min shake) (Discard DCM). 3. Add Surr/Spk. 4. Acidify with 1:1 HCL.
5. Extract 1 X with 30mL 0.02% Tropolone (4 min shake). Plus 2 X 30mL DCM.
6. KD rinsed with 0.02% Tropolone (NO Drying Column) at 80°. 7. Exchange (2 X with 10mL) to Hexane at 100°.
8. TurboVap. 9. Derivitize=Transfer Rinse. 10. TurboVap. 11. 0% Alumina Clean-up Required. 12. TurboVap.
13. Vial. A. Archive (Y) N

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory
Analyst Notes

ARI Job No.: NU479 Client ID: Anchor Environmental, LLC

Parameter: TBT pore H2O Client Project: EDDON Boatyard

SOP Number(s): 3165 No Anomalies:

List problems, concerns, corrective actions and any other pertinent information
Sample A = emulsion after each shake, used centerfuge to break up. PD 10-17-08
SAMPLES A AND A DUP REQUIRED ANOTHER ALUMINA CLEANUP FOR EXTRA COLOR. no. 10/20/08

Analyst Initials:	PD	Date:	10-17-08

Analytical Resources Inc.: Organics Instrument Log

NT-1 (Serial No.: Mass Spec = 3341A01294; Mass Spec GC = 3336A53338)

Date: 10·8·2008 Analysis: Porewater - TBT Analyst: VTS

GC Program: NT1PW Column No: 132730 Column Type: ZB-5ms,

Instrument Tune (.U or .CT.): 081002.U EM Voltage: 2647

Calibration File: df1008A Curve Date: 10·8·2008

IS/SS	Ical/Ccal	LCS/ICV
(1487-5)	(1544-4)	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt1.

	Time	Filename	LabID	ClientId	DF				
1	1429	df1008a.d	DF1008		1	NO ISTDS FOUND			
2	1449	ic1008a.d	IC1008A		1	9.25	221939	10.15	218922
3	1515	ic1008b.d	IC1008B		1	9.25	218823	10.15	204558
4	1535	ic1008c.d	IC1008C		1	9.25	211526	10.15	211940
5	1555	ic1008d.d	IC1008D		1	9.25	195361	10.15	192944
6	1614	ic1008e.d	IC1008E		1	9.25	259986	10.15	255658
7	1634	ic1008f.d	IC1008F		1	9.25	208783	10.15	213713
8	1654	ns86mb.d	NS86MBW1	NS86MBW1	1	9.25	162589	10.15	152778
9	1714	ns86sb.d	NS86LCSW1	NS86LCSW1	1	9.25	174371	10.15	166231
0	1733	ns86a.d	NS86A	EB-SEO1-A-081003	1	9.25	162700	10.15	152840
1	1753	ns86b.d	NS86B	EB-SEO2-A-081003	1	BROKEN VIAL- MIS-INJECTED			
2	1813	ns86bms.d	NS86BMS	EB-SEO2-A-08100 MS	1	9.25	168190	10.15	155388
3	1832	ns86bmsd.d	NS86BMSDEB	-SEO2-A-08100 MSD	1	9.25	156422	10.15	150413
4	1852	ns86c.d	NS86C	EB-SEO3-A-081003	1	9.25	164946	10.15	151090
5	1912	ns86d.d	NS86D	EB-SEO4-A-081003	1	9.25	159280	10.15	150802
5	1931	nr46mb.d	NR46MBW1	NR46MBW1	1	9.25	167832	10.15	157929
7	1951	nr46sb.d	NR46LCSW1	NR46LCSW1	1	9.25	166322	10.15	150133
3	2010	nr46a.d	NR46A	EW-SW-1-U-2	1	9.25	158588	10.15	148614
9	2030	nr46b.d	NR46B	EW-SW-1-L-2	1	9.25	163749	10.15	145985
)	2049	nr46bms.d	NR46BMS	EW-SW-1-L-2 MS	1	9.25	159996	10.15	142911
.	2109	nr46bmsd.d	NR46BMSD	EW-SW-1-L-2 MSD	1	9.25	162419	10.15	143610
!	2128	nr46c.d	NR46C	EW-SW-101-L-2	1	9.25	154721	10.15	137863
23	2148	nq90mb.d	NQ90MBW1	NQ90MBW1	1	9.25	157319	10.15	138663
24	2207	nq90sb.d	NQ90LCSW1	NQ90LCSW1	1	9.25	156099	10.15	133653
25	2227	nq90a.d	NQ90A	EW-SW-6-U-2	1	9.25	158629	10.15	139410
26	2246	nq90b.d	NQ90B	EW-SW-6-L-2	1	9.25	183280	10.15	160213
27	2305	nq90c.d	NQ90C	EW-SW-5-U-2	1	9.25	151286	10.15	129240
28	2325	nq90d.d	NQ90D	EW-SW-5-L-2	1	9.25	154105	10.15	128762
29	2344	nq90e.d	NQ90E	EW-SW-5-L-2-RB	1	9.25	153490	10.15	129291
30	0003	nr24a.d	NR24A	EW-SW-2-U-2	1	9.25	144796	10.15	130093
31	0023	nr24ams.d	NR24AMS	EW-SW-2-U-2 MS	1	9.25	149342	10.15	122332
32	0042	nr24amsd.d	NR24AMSD	EW-SW-2-U-2 MSD	1	9.25	147457	10.15	124748
33	0101	nr24b.d	NR24B	EW-SW-2-L-2	1	9.25	153806	10.15	125181
34	0121	nr24c.d	NR24C	EW-SW-3-U-2	1	9.25	151455	10.15	126184
35	0140	nr24d.d	NR24D	EW-SW-3-L-2	1	9.25	141204	10.15	123189

Maintenance / Comments

New liner/vial septum/clipped column/flushed injector

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): IC1002A

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

10.9.08 VTS

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

RI Project ID: CURVE Client ID: _____

RI SOP: **801S**(SIM-PNA) **802S**(BTS-HX) **803S**(BTS-PW) **804S**(8270D) **805S**(BTS-ET)

arameter(s): pore water - CURVE

nstrument: NT-1 NT-2 NT-4 NT-6

urve Date: 10.8.2008 Analysis Start Date: 10.8.2008

FTPP Tune Meets Criteria?	YES / NO	Method Blank in Control?	YES / NO
DT Breakdown <20%?	YES / NO / NA	LCS / LCSD Recovery in Control?	YES / NO
eak Tailing Factor in Control?	YES / NO / NA	MS/MSD Recovery in Control?	YES / NO
Cal Meets RF & %RSD Criteria?	YES / NO	Surrogate Recovery in Control?	YES / NO
Cal Meets RF & %RSD Criteria?	YES / NO	Special Analysis Criteria Met?	YES / NO / NA
ternal Standard Meets Criteria?	YES / NO		

etail problems, corrective actions and/or other pertinent information below (use reverse side hen necessary):

All targets met 15% RSD

dditional Details on Reverse: Yes / No

nalyst Signature: _____ **Date:** 10.9.2008

eviewer's Signature: _____ **Date:** 10/9/08

0092

Analytical Resources Inc.: Organics Instrument Log

NT-1 (Serial No.: Mass Spec = 3341A01294; Mass Spec GC = 3336A53338)

Date: 10.21.2008 Analysis: TBT - pore water Analyst: VTS

GC Program: NT1PW Column No: 132730 Column Type: ZB-5ms

Instrument Tune (.U or .CT.): 081002.U EM Voltage: 2753

Calibration File: DF1021A Curve Date: 10.8.2008

IS/SS	Ical/Ccal	LCS/ICV
(1487 -5)	(1544-4)	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt

	Time	Filename	LabID	ClientId	DF				
1	1252	df1021a.d	DF1021		1	NO ISTDS FOUND			
2	1311	cc1021a.d	CC1021		1	9.22	109838	10.12	113243
3	1338	nu79mb.d	NU79MBW1	NU79MBW1	1	9.22	136188	10.12	132325
4	1358	nu79sb.d	NU79LCSW1	NU79LCSW1	1	9.22	151423	10.12	148191
5	1417	nu79a.d	NU79A	COMPOSITE OF A&C	1	9.22	154931	10.12	149624
6	1437	nu79adup.d	NU79ADUP		1	9.22	154290	10.12	149328

VTS 10.21.2008

Maintenance / Comments NONE

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): CC1021A

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

RI Project ID: NU79 Client ID: Anchr

RI SOP: **801S**(SIM-PNA) **802S**(BTS-HX) **803S**(BTS-PW) **804S**(8270D) **805S**(BTS-ET)

arameter(s): TBTs

nstrument: NT-1 NT-2 NT-4 NT-6

urve Date: 10.8.2008 Analysis Start Date: 10.21.2008

FTPP Tune Meets Criteria?	YES / NO	Method Blank in Control?	YES / NO
DT Breakdown <20%?	YES / NO / NA	LCS / LCSD Recovery in Control?	YES / NO
eak Tailing Factor in Control?	YES / NO / NA	~~MS/MSD Recovery in Control?~~	~~YES / NO~~
Cal Meets RF & %RSD Criteria?	YES / NO	Surrogate Recovery in Control?	YES / NO
Cal Meets RF & %RSD Criteria?	YES / NO	Special Analysis Criteria Met?	YES / NO / NA
ternal Standard Meets Criteria?	YES / NO		

etail problems, corrective actions and/or other pertinent information below (use reverse side hen necessary):

- Full package.
- ADUP matches orisinl hits very closely. (NOT entered on Lims)

dditional Details on Reverse: Yes / No

alyst Signature: V. Date: 10.21.2008

viewer's Signature: Date: 10/21/08

0094

Analytical Resources, Incorporated
Analytical Chemists and Consultants

November 24, 2008

Joy Dunay
Anchor Environmental
1423 3rd Avenue, Suite 300
Seattle, WA 98101

RE: 040289-02 Eddon Boatyard
ARI Job No.: NU61

Dear Joy:

Please find enclosed the Chain-of-Custody records, sample receipt documentation, and the final data package for samples from the project referenced above.

Sample receipt and details of the analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Susan Dunnihoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures

cc: eFile NU61

Chain of Custody
Documentation

prepared
for

Anchor Environmental, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NU61

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: NW61	Turn-around Requested: 72 hr	Page: 1 of 1	
ARI Client Company: Anchor	Phone: 206 287 9130	Date: 10/15/08	Ice Present?
Client Contact: Joy Danay		No. of Coolers:	Cooler Temps:
Client Project Name: Eddon Boatyard			
Client Project #: 040289-02	Samplers: DG, JP		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Porewater TBT	mercury	TOC	Total Solids	sms metals	sms SVOC	sms PCB	Grain Size	Notes/Comments
EB-SE-03-Z-081015	10/15	1340	Sed	6	X	X							
EB-SE-03-ZZ-081015	10/15	1340	Sed	1	X	X							Archive
	↓												
EB-SE-03-Z-081015-1		1300	Sed	2	X	X							Hold, 6-grab-1
													Freeze in 6 days

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
will call to confirm 10/16 morning	Printed Name: David Gillingham	Printed Name: Jonathon Walter	Printed Name:	Printed Name:
	Company: Anchor	Company: ARI	Company:	Company:
	Date & Time: 10/15/08 1720	Date & Time: 10/15/08 1720	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Anchor Project Name: Eddon Boatyard

COC No: _____ Delivered by: Hand

Assigned ARI Job No: NU61 Tracking No: _____

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO
Record cooler temperature (recommended 2.0-6.0 °C for chemistry	9.4 °C	

Cooler Accepted by: JW Date: 10/15/08 Time: 1720

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?	YES	(NO)
What kind of packing material was used?	ICE	
Was sufficient ice used (if appropriate)?	YES	(NO)
Were all bottles sealed in individual plastic bags?	YES	(NO)
Did all bottle arrive in good condition (unbroken)?	(YES)	NO
Were all bottle labels complete and legible?	(YES)	NO
Did all bottle labels and tags agree with custody papers?	(YES)	NO
Were all bottles used correct for the requested analyses?	(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation checklist)	YES	(NO)
Were all VOC vials free of air bubbles? (NA)	YES	NO
Was sufficient amount of sample sent in each bottle?	(YES)	NO

Samples Logged by: JW Date: 10/15/08 Time: 1735

***** Notify Project Manager of discrepancies or concerns *****

Explain discrepancies or negative responses:

By: Date:

0003

Case Narrative

prepared
for

Anchor Environmental, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NU61

prepared
by

Analytical Resources, Inc.

Case Narrative

Client: Anchor Environmental
Project: 040289-02 Eddon Boatyard
ARI Job No. NU61

Sample receipt

Three sediment samples were received by Analytical Resources on October 15, 2008 at a cooler temperature of 9.4°C measured by IR thermometer. Samples were well-iced, in good condition and received within a short time of sampling. Samples were logged under ARI Job NU61 for bulk analysis and pore water extractions, with two samples on hold.

On 10/16, ARI was instructed to composite samples **EB-SE-03-Z-081015** and **EB-SE-03-Z-081015-1** for analysis. As the **EB-SE-03-Z-081015** sample aliquots were already weighed out for the pore water, equal amounts were weighed out from **EB-SE-03-Z-081015-1** and the resulting pore waters composited, and reported under ARI Job NU79.

This data package contains the metals sediment analysis and pore water extraction report. Results have been reported as sample **EB-SE-03-Z-081015.**

Metals by Methods 7471A

Equal weights of sample **EB-SE-03-Z-081015** and **EB-SE-03-Z-081015-1** were composited, using a representative mass (~50 g of each sample). The sample was prepared and analyzed within the method recommended holding times.

The method blank was clean at the reporting limit. The LCS percent recovery was within the control limits.

A matrix spike and matrix duplicate were prepared in conjunction with sample **EB-SE-03-Z-081015.** The RPD for the matrix duplicate was high following the initial analysis. The sample was re-prepped and re-analyzed with acceptable recoveries and RPD.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Client: Anchor Environmental, LLC	**ARI Project No.:** NU61
Client Project: Eddon Boatyard	**Client Project No.:** 040289-02

Case Narrative

1. One sample was submitted for Pore Water Extraction, according to the Corps of Engineers draft interim guidelines.
2. The sample was placed in the nitrogen chamber along with centrifuge bottles, a spoon, a balance, etc.; and the chamber was sealed and filled with nitrogen. The centrifuge bottles were pre-rinsed with Hexane and allowed to dry completely. All spoons and spatulas were pre-rinsed with Dichloromethane. The centrifuge bottles were opened before-hand to allow it to come to equilibrium with the chamber. The oxygen level in the chamber was less than 1%.
3. The sample, EB-SE-03-Z-081015, did not contain enough material to obtain the required pore water for analysis. The sample was composited with sample EB-SE-03-Z-081015-1 in the nitrogen chamber. The composited sample was then loaded into centrifuge bottles.
4. The sample was centrifuged in a pre-cooled centrifuge (4°C) at 3,000 x g for 30 minutes, decanted, and the decanted waters were placed in another pre-cooled centrifuge (4°C) and spun at 7,000 x g for 30 minutes.
5. There were no other anomalies in the samples or methods on this project.

Approved by: Geeana Lenate Date: 11/19/08
Geotechnical Division Manager

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U	Indicates that the target analyte was not detected at the reported concentration
*	Duplicate RPD is not within established control limits
B	Reported value is less than the CRDL but ≥ the Reporting Limit
N	Matrix Spike recovery not within established control limits
NA	Not Applicable, analyte not spiked
H	The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
L	Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U	Indicates that the target analyte was not detected at the reported concentration
*	Flagged value is not within established control limits
B	Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
J	Estimated concentration when the value is less than ARI's established reporting limits
D	The spiked compound was not detected due to sample extract dilution
NR	Spiked compound recovery is not reported due to chromatographic interference
E	Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
S	Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
NA	The flagged analyte was not analyzed for
NS	The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.

F Samples were frozen prior to particle size determination

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

Data Summary Package

prepared
for

Anchor Environmental, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NU61

prepared
by

Analytical Resources, Inc.

METALS

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: EB-SE-03-Z-081015
SAMPLE

Lab Sample ID: NU61A
LIMS ID: 08-27781
Matrix: Sediment
Data Release Authorized:
Reported: 10/28/08

QC Report No: NU61-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/15/08
Date Received: 10/15/08

Percent Total Solids: 62.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
CLP	10/21/08	7471A	10/24/08	7439-97-6	Mercury	0.07	0.41	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: EB-SE-03-Z-081015
MATRIX SPIKE

Lab Sample ID: NU61A
LIMS ID: 08-27781
Matrix: Sediment
Data Release Authorized:
Reported: 10/28/08

QC Report No: NU61-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/15/08
Date Received: 10/15/08

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Mercury	7471A	0.41	1.19	0.670	116%	

Reported in mg/kg-dry

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: EB-SE-03-Z-081015
DUPLICATE

Lab Sample ID: NU61A
LIMS ID: 08-27781
Matrix: Sediment
Data Release Authorized:
Reported: 10/28/08

QC Report No: NU61-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/15/08
Date Received: 10/15/08

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Mercury	7471A	0.41	0.44	7.1%	+/- 20%	

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: NU61LCS
LIMS ID: 08-27781
Matrix: Sediment
Data Release Authorized:
Reported: 10/28/08

QC Report No: NU61-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Mercury	7471A	1.10	1.00	110%	

Reported in mg/kg-dry

N-Control limit not met
NA-Not Applicable, Analyte Not Spiked
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: NU61MB
LIMS ID: 08-27781
Matrix: Sediment
Data Release Authorized:
Reported: 10/28/08

QC Report No: NU61-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
CLP	10/21/08	7471A	10/24/08	7439-97-6	Mercury	0.05	0.05	U

U-Analyte undetected at given RL
RL-Reporting Limit

Laboratory Data Package

prepared
for

Anchor Environmental, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NU61

prepared
by

Analytical Resources, Inc.

Metals Analysis
QC Summary Data

prepared
for

Anchor Environmental, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NU61

prepared
by

Analytical Resources, Inc.

Cover Page

INORGANIC ANALYSIS DATA PACKAGE

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

SDG: NU61

CLIENT ID	ARI ID	ARI LIMS ID	REPREP
EB-SE-03-Z-081015	NU61A	08-27781	
EB-SE-03-Z-081015D	NU61ADUP	08-27781	
PBS	NU61MB1	08-27781	
LCSS	NU61MB1SPK	08-27781	
EB-SE-03-Z-081015	NU61RA	08-27781	R
EB-SE-03-Z-081015D	NU61RADUP	08-27781	R
EB-SE-03-Z-081015S	NU61RASPK	08-27781	R
PBS	NU61RMB1	08-27781	R
LCSS	NU61RMB1SPK	08-27781	R

Were ICP interelement corrections applied ?	Yes/No	YES
Were ICP background corrections applied ?	Yes/No	YES
If yes - were raw data generated before application of background corrections ?	Yes/No	NO

Comments: _____

THIS DATA PACKAGE HAS BEEN REVIEWED AND AUTHORIZED FOR RELEASE BY:

Signature: _____ Name: Jay Kuhn

Date: 10/28/08 Title: Inorganics Director

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: EB-SE-03-Z-081015
MATRIX SPIKE

Lab Sample ID: NU61A
LIMS ID: 08-27781
Matrix: Sediment
Data Release Authorized:
Reported: 10/28/08

QC Report No: NU61-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/15/08
Date Received: 10/15/08

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Mercury	7471A	0.41	1.19	0.670	116%	

Reported in mg/kg-dry

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: EB-SE-03-Z-081015
DUPLICATE

Lab Sample ID: NU61A
LIMS ID: 08-27781
Matrix: Sediment
Data Release Authorized:
Reported: 10/28/08

QC Report No: NU61-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/15/08
Date Received: 10/15/08

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Mercury	7471A	0.41	0.44	7.1%	+/- 20%	

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: NU61LCS
LIMS ID: 08-27781
Matrix: Sediment
Data Release Authorized:
Reported: 10/28/08

QC Report No: NU61-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Mercury	7471A	1.10	1.00	110%	

Reported in mg/kg-dry

N-Control limit not met
NA-Not Applicable, Analyte Not Spiked
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: NU61MB
LIMS ID: 08-27781
Matrix: Sediment
Data Release Authorized:
Reported: 10/28/08

QC Report No: NU61-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
CLP	10/21/08	7471A	10/24/08	7439-97-6	Mercury	0.05	0.05	U

U-Analyte undetected at given RL
RL-Reporting Limit

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

SDG: NU61

UNITS: ug/L

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Mercury	HG	CVA	HG102401	8.0	7.83	97.9	4.0	4.09	102.3	4.13	103.3	4.15	103.8	4.15	103.8	4.30	107.5

0023

Control Limits: Mercury 80-120; Other Metals 90-110

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

SDG: NU61

UNITS: ug/L

ANALYTE	EL	M	RUN	CCVTV	CCV6	%R	CCV7	%R	CCV8	%R	CCV9	%R	CCV10	%R	CCV11	%R
Mercury	HG	CVA	HG102401	4.0	4.27	106.8										

Control Limits: Mercury 80-120; Other Metals 90-110

CRDL Standard

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

SDG: NU61

UNITS:ug/L

ANALYTE	EL	M	RUN	CRA/I	TV	CR-1	%R	CR-2	%R	CR-3	%R	CR-4	%R	CR-5	%R	CR-6	%R
Mercury	HG	CVA	HG102401		0.1	0.15	150.0										

0025

Control Limits: no control limits have been established by the EPA at this time.

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

SDG: NU61

UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	ICB	C	CCB1	C	CCB2	C	CCB3	C	CCB4	C	CCB5	C
Mercury	HG	CVA	HG102401	0.2	0.1	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U

0026

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

SDG: NU61

UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	CCB6	C	CCB7	C	CCB8	C	CCB9	C	CCB10	C	CCB11	C
Mercury	HG	CVA	HG102401	0.2	0.1	0.1	U										

IDLs and ICP Linear Ranges

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

SDG: NU61

UNITS: ug/L

ANALYTE	EL	METH	INSTRUMENT	WAVELENTH (nm)	GFA BACK-GROUND	CLP CRDL	RL	RL DATE	ICP LINEAR RANGE (ug/L)	ICP LR DATE
Mercury	HG	CVA	CETAC MERCURY	253.70		0.2	0.1	3/1/2008		

Preparation Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

SDG: NU61

ANALYSIS METHOD: CVA

ARI PREP CODE: SMM

PREPDATE: 10/16/2008

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
EB-SE-03-Z-081015	NU61A	0.210	0.0	100.0
EB-SE-03-Z-081015D	NU61ADUP	0.215	0.0	100.0
PBS	NU61MB1	0.200	0.0	100.0
LCSW	NU61MB1SPK	0.200	0.0	100.0

Preparation Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD

SDG: NU61

ANALYSIS METHOD: CVA

ARI PREP CODE: SMM

PREPDATE: 10/21/2008

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
EB-SE-03-Z-081015	NU61RA	0.236	0.0	100.0
EB-SE-03-Z-081015D	NU61RADUP	0.237	0.0	100.0
EB-SE-03-Z-081015S	NU61RASPK	0.239	0.0	100.0
PBS	NU61RMB1	0.200	0.0	100.0
LCSW	NU61RMB1SPK	0.200	0.0	100.0

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD | INSTRUMENT ID: CETAC MERCURY | START DATE: 10/24/2008

SDG: NU61 | RUNID: HG102401 | METHOD: CVA | END DATE: 10/24/2008

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
S0	S0	1.00	11133														X																
S0.1	S0.1	1.00	11151														X																
S0.5	S0.5	1.00	11165														X																
S1	S1	1.00	11182														X																
S2	S2	1.00	11200														X																
S5	S5	1.00	11214														X																
S10	S10	1.00	11232														X																
ICV	AICV	1.00	11254														X																
ICB	ICB	1.00	11272														X																
CCV	ACCV1	1.00	11290														X																
CCB	CCB1	1.00	11304														X																
CRA	CRA	1.00	11321														X																
ZZZZZZ	NV23MB1	1.00	11335																														
ZZZZZZ	NV23MB1SPK	1.00	11353																														
ZZZZZZ	NV23A	1.00	11370																														
ZZZZZZ	NV23ADUP	1.00	11384																														
ZZZZZZ	NV23ASPK	1.00	11401																														
ZZZZZZ	NV23B	1.00	11415																														
ZZZZZZ	NV23C	1.00	11433																														
ZZZZZZ	NV23D	1.00	11451																														
ZZZZZZ	NV23K	1.00	11464																														
CCV	ACCV2	1.00	11482														X																
CCB	CCB2	1.00	11501														X																
ZZZZZZ	NV23L	1.00	11514																														
ZZZZZZ	NV23M	1.00	11532																														
ZZZZZZ	NV23N	1.00	11545																														
ZZZZZZ	NV23REF1	2.00	11563																														
ZZZZZZ	NV24A	1.00	11580																														
ZZZZZZ	NV24B	1.00	11594																														
ZZZZZZ	NV24C	1.00	12012																														
ZZZZZZ	NV24D	1.00	12030																														
ZZZZZZ	NV24J	1.00	12043																														
ZZZZZZ	NV24K	1.00	12061																														
CCV	ACCV3	1.00	12075														X																
CCB	CCB3	1.00	12093														X																

FORM XIV

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Anchor Environmental

PROJECT: EDDON BOATYARD | INSTRUMENT ID: CETAC MERCURY | START DATE: 10/24/2008

SDG: NU61 | RUNID: HG102401 | METHOD: CVA | END DATE: 10/24/2008

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN
ZZZZZZ	NV24L	1.00	12111																														
ZZZZZZ	NV25MB1	1.00	12125																														
ZZZZZZ	NV25MB1SPK	1.00	12143																														
ZZZZZZ	NV25A	1.00	12160																														
ZZZZZZ	NV25ADUP	1.00	12174																														
ZZZZZZ	NV25ASPK	1.00	12202																														
ZZZZZZ	NV25B	1.00	12220																														
ZZZZZZ	NV25C	1.00	12234																														
ZZZZZZ	NV25D	1.00	12251																														
ZZZZZZ	NV25M	1.00	12265																														
CCV	ACCV4	1.00	12283														X																
CCB	CCB4	1.00	12301														X																
ZZZZZZ	NV25N	1.00	12315																														
ZZZZZZ	NV25O	1.00	12333																														
ZZZZZZ	NV25P	1.00	12351																														
ZZZZZZ	NV25REF1	2.00	12364																														
ZZZZZZ	NV27A	1.00	12382																														
ZZZZZZ	NV27B	1.00	12400																														
ZZZZZZ	NV27C	1.00	12413																														
ZZZZZZ	NV27D	1.00	12431																														
PBW	NU61RMB1	1.00	12445														X																
LCSW	NU61RMB1SPK	1.00	12462														X																
CCV	ACCV5	1.00	12480														X																
CCB	CCB5	1.00	12494														X																
EB-SE-03-Z-081015	NU61RA	1.00	12512														X																
EB-SE-03-Z-081015D	NU61RADUP	1.00	12530														X																
EB-SE-03-Z-081015S	NU61RASPK	1.00	12544														X																
CCV	ACCV6	1.00	12562														X																
CCB	CCB6	1.00	12580														X																

Metals Analysis
Sample Data

prepared
for

Anchor Environmental, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NU61

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: EB-SE-03-Z-081015
SAMPLE

Lab Sample ID: NU61A
LIMS ID: 08-27781
Matrix: Sediment
Data Release Authorized:
Reported: 10/28/08

QC Report No: NU61-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/15/08
Date Received: 10/15/08

Percent Total Solids: 62.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
CLP	10/21/08	7471A	10/24/08	7439-97-6	Mercury	0.07	0.41	

U-Analyte undetected at given RL
RL-Reporting Limit

Metals Analysis
Instrument Raw Data and Run Logs

prepared
for

Anchor Environmental, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NU61

prepared
by

Analytical Resources, Inc.

Mercury Analysis Log

Analyst: KM Date: 10/17/08

Instrument: CETAC Page: 1 of 6

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
STD 0.0	SMM	1X		
" 0.1				
" 0.5				
" 1.0				
" 2.0				
" 5.0				
" 10.0				
ICV			7.74	Begin CLP %R=97 ✓
ICB			-0.03	✓
CCV1			3.86	%R=97 ✓
CCB1			-0.01	✓
CRA			0.11	✓
NU61 MB1			0.01	✓
" MB1SPK			1.98	%R=99 ✓
" A			0.66	RPD=159% ✓
" ADUP			5.80	↓KM 10/17/08 High X
NT54 MB1			-0.03	✓
" MB1SPK			2.00	%R=100 ✓
" B				
" E				
" K				
CCV2			3.92	%R=98 ✓
CCB2			-0.01	✓
NT54 S			0.11	✓
" SDUP			0.13	✓
" SSPK			1.13	%R=102 ✓
CCV3			3.94	%R=99 ✓
CCB3			-0.00	✓
NU61 A			0.66	Delete Confirmed
" ADUP	↓	↓	6.01	RPD=160% High X

Chemical/Reagent ID:

10% $SnCl_2$: MP1555 14% NH_2OH/NaCl: MP1543

Standard ID:

Standard: 2538-16 ICV/CCV: 45-14

Mercury Analysis Log

Analyst: KM

Instrument: CETAC

Date: 10/17/08

Page: 2 of 6

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments	
CCV4	SMM	1x	3.89	%R= 97	✓
CCB4			-0.01	End CLP	✓
NT61 MB			0.01		✓
" MBSPK			1.97	%R= 99	✓
" A					
" B					
" C					
" D					
" E					
NR14 MB			0.01		✓
" MBSPK			1.93	%R= 97	✓
" A					
CCV5			3.96	%R= 99	✓
CCB5			-0.00		✓
NR14 B					
NS67 MB			0.01		✓
" MBSPK			2.05	%R= 103	✓
" B					
" D					
" E					
NT39 MB			0.01		✓
" MBSPK			2.02	%R= 101	✓
" A					
" B					
CCV6			4.02	%R= 101	✓
CCB6			-0.00		✓
NT73 MB			0.01		✓
" MBSPK			2.04	%R= 102	✓
" A					
" B					

Chemical/Reagent ID:

10% $SnCl_2$: MP1555

14% NH_2OH/NaCl: MP1543

Standard ID:

Standard: 2538-16

ICV/CCV: 45-14

ANALYTICAL RESOURCES INCORPORATED

Metals Data Review Checklist

Method: ICP ICP-MS GFA (CVA)

Analysis Date: 10/17/08

	Analyst KM 10/17	Peer JW 10/20/08	Comment
Logbook:			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration:			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
Calibration Verification:			
ICV/CCV	✓	✓	
ICB/CCB	✓	✓	
Samples:			
RSD's & SD's	✓	✓	
Internal Standards	—	—	
Carry-over	✓	✓	
Method QC:			
CRI/CRA	✓	✓	
ICSA/ICSAB	—	—	
Post Spikes/Serial Dilutions	—	—	
Analytic Spikes	—	—	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	
Matrix Duplicates	✓	✓	NU61
Method Blanks	✓	✓	
Data Distribution:			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
Necessary Analysts Notes and CAF's	✓	✓	NU61

CETAC Hg Analysis Report - 08101700.DB - Friday, October 17, 2008, 3:42:45 PM

Analyst
Date Started Friday, October 17, 2008, 10:28:52
Worksheet ARI 10ppb CALIB
Comment

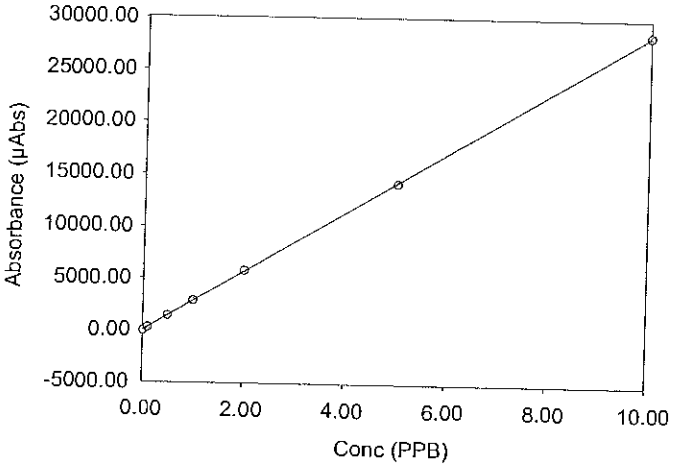
JVB 10/20/08

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
Std Tube 6	17-Oct-2008, 10:28	10.00	0.47	28100.00	1.00	

Information about this calibration could not be retrieved from the Master File.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
Calibration Zero	17-Oct-2008, 10:30	0.00	2.94	-47.10	1.00	
Standard #1	17-Oct-2008, 10:32	0.10	1.27	280.00	1.00	
Standard #2	17-Oct-2008, 10:33	0.50	1.89	1420.00	1.00	
Standard #3	17-Oct-2008, 10:35	1.00	0.50	2870.00	1.00	
Standard #4	17-Oct-2008, 10:36	2.00	0.42	5800.00	1.00	
Standard #5	17-Oct-2008, 10:38	5.00	0.33	14200.00	1.00	
Standard #6	17-Oct-2008, 10:40	10.00	0.44	28500.00	1.00	

Calibration Data



Int.	0.000
Slope	2851.948
Correlation	0.99998

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
ICV	17-Oct-2008, 10:44	7.74	0.80	22100.00	1.00	Begin CLP
ICB	17-Oct-2008, 10:45	-0.03	1.46	-89.60	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	17-Oct-2008, 10:47	3.86	0.45	11000.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	17-Oct-2008, 10:49	-0.01	11.00	-19.10	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CRA	17-Oct-2008, 10:50	0.11	0.84	314.00	1.00	
NU61 MB1 SMM	17-Oct-2008, 10:52	0.01	7.98	29.50	1.00	
NU61 MB1SPK SMM	17-Oct-2008, 10:53	1.98	0.50	5630.00	1.00	
NU61 A SMM	17-Oct-2008, 10:55	0.66	0.38	1890.00	1.00	
NU61 ADUP SMM	17-Oct-2008, 10:57	5.80	0.38	16500.00	1.00	RPD High
NT54 MB1 SMM	17-Oct-2008, 10:58	-0.03	2.63	-82.40	1.00	
NT54 MB1SPK SMM	17-Oct-2008, 11:00	2.00	0.69	5700.00	1.00	
NT54 B SMM	17-Oct-2008, 11:01	0.06	0.71	170.00	1.00	
NT54 E SMM	17-Oct-2008, 11:03	0.09	1.12	253.00	1.00	
NT54 K SMM	17-Oct-2008, 11:05	0.13	0.31	363.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	17-Oct-2008, 11:06	3.92	0.23	11200.00	1.00	

CETAC Hg Analysis Report - 08101700.DB - Friday, October 17, 2008, 3:42:47 PM

Analyst
Date Started Friday, October 17, 2008, 11:08:35
Worksheet ARI 10ppb CALIB
Comment

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	17-Oct-2008, 11:08	-0.01	25.50	-15.80	1.00	
NT54 S SMM	17-Oct-2008, 11:10	0.11	1.17	304.00	1.00	
NT54 SDUP SMM	17-Oct-2008, 11:11	0.13	0.45	358.00	1.00	
NT54 SSPK SMM	17-Oct-2008, 11:13	1.13	0.51	3220.00	1.00	
QC Standard	17-Oct-2008, 11:15	3.94	0.22	11200.00	1.00	
QC Blank	17-Oct-2008, 11:16	-0.00	43.80	-7.03	1.00	
NU61 A SMM	17-Oct-2008, 11:18	0.66	0.40	1890.00	1.00	
NU61 ADUP SMM	17-Oct-2008, 11:20	6.01	0.32	17200.00	1.00	– RPD High
QC Standard	17-Oct-2008, 11:21	3.89	0.20	11100.00	1.00	
QC Blank	17-Oct-2008, 11:23	-0.01	4.53	-31.50	1.00	End CLP
NT61 MB SMM	17-Oct-2008, 11:25	0.01	7.02	20.20	1.00	
NT61 MBSPK SMM	17-Oct-2008, 11:26	1.97	0.27	5620.00	1.00	
NT61 A SMM	17-Oct-2008, 11:28	0.67	0.31	1920.00	1.00	
NT61 B SMM	17-Oct-2008, 11:30	0.08	1.01	239.00	1.00	
NT61 C SMM	17-Oct-2008, 11:31	0.17	0.26	480.00	1.00	
NT61 D SMM	17-Oct-2008, 11:33	0.18	0.86	510.00	1.00	
NT61 E SMM	17-Oct-2008, 11:34	0.07	1.48	207.00	1.00	
NR14 MB SMM	17-Oct-2008, 11:36	0.01	5.00	33.60	1.00	
NR14 MBSPK SMM	17-Oct-2008, 11:38	1.93	0.45	5520.00	1.00	
NR14 A SMM	17-Oct-2008, 11:39	0.30	0.40	858.00	1.00	
QC Standard	17-Oct-2008, 11:41	3.96	0.22	11300.00	1.00	
QC Blank	17-Oct-2008, 11:43	-0.00	18.50	-12.40	1.00	
NR14 B SMM	17-Oct-2008, 11:44	0.02	3.13	49.10	1.00	
NS67 MB SMM	17-Oct-2008, 11:46	0.01	4.91	36.80	1.00	
NS67 MBSPK SMM	17-Oct-2008, 11:47	2.05	0.20	5840.00	1.00	
NS67 B SMM	17-Oct-2008, 11:49	0.13	0.59	379.00	1.00	
NS67 D SMM	17-Oct-2008, 11:51	0.11	0.44	303.00	1.00	
NS67 E SMM	17-Oct-2008, 11:52	0.08	1.30	221.00	1.00	
NT39 MB SMM	17-Oct-2008, 11:54	0.01	5.05	34.10	1.00	
NT39 MBSPK SMM	17-Oct-2008, 11:55	2.02	0.21	5760.00	1.00	
NT39 A SMM	17-Oct-2008, 11:57	0.06	0.90	171.00	1.00	
NT39 B SMM	17-Oct-2008, 11:59	0.06	1.04	170.00	1.00	
QC Standard	17-Oct-2008, 12:00	4.02	0.35	11500.00	1.00	

Mercury Standard Prep Log

Prep Code: SMM

Analyst: DM

Instrument: CETAC

Bath Temp: 95°C

Start Time: 1335

Date: 10-16-08

End Time: 1405

Standard ID	Stock ID	Volume Added (mL)	Final Volume (mL)	Standard Conc. (µg/L)	Number Made
STD0	–	0.00	100.0	0.0	2
STD1	2538-16	0.01		0.1	2
STD2		0.05		0.5	2
STD3		0.10		1.0	2
STD4		0.20		2.0	2
STD5		0.50		5.0	2
STD6		1.00		10.0	2
CRA		0.01		0.1	1
ICB/CCB	–	0.00		0.0	2
ICV/LCS	45-14	0.16		8.0	2
CCV		0.08	100.0	4.0	2

Chemical/Reagent ID:

HNO_3: I4397

H_2SO_4: I4504

HCl: –

5% $K_2S_2O_8$: MP1545

5% $KMnO_4$: MP1546

Prep Code: _____

Analyst: _____

Instrument: _____

Bath Temp: _____

Start Time: _____

Date: _____

End Time: _____

Standard ID	Stock ID	Volume Added (mL)	Final Volume (mL)	Standard Conc. (µg/L)	Number Made
STD0		0.00			
STD1					
STD2		0.05			
STD3		0.10			
STD4		0.20			
STD5		0.50			
STD6		1.00			
CRA					
ICB/CCB		0.00			
ICV/LCS					
CCV					

Chemical/Reagent ID:

HNO_3: _____

H_2SO_4: _____

HCl: _____

5% $K_2S_2O_8$: _____

5% $KMnO_4$: _____

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Mercury Digestion Log

Prep Code: 5mm
Analyst: DM
Bath Temp: 95°C
Start Time: 1135
Matrix: Soil
Date: 10-16-08
End Time: 1205

ARI Sample ID	Sample Bottle #	BOD Bottle #	pH<2	Initial Weight (g) ~~Volume (mL)~~	Final Volume (mL)	# $KMnO_4$ Aliquots	CL P	Comments
NU61 A	Comp A+C	√22	—	0.210	100.0	10/A 1	①	
" ADUP	Comp A+C	K11	—	0.215	↓	1	↓	
" MB1	—	A12	—	—	↓	1	↓	
" MBEPA	—	T8	—	—	100.0	1	⑧	
				10-16-08 DM				

Chemical/Reagent ID:

HNO_3: I4397 H_2SO_4: I4504 HCl: —

5% $K_2S_2O_8$: MP1545 5% $KMnO_4$: MP1546 Digest Tube Lot: —

Mercury Analysis Log

Analyst: KM

Instrument: CETAC

Date: 10/24/08

Page: 1 of 7

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
STD 0.0	SMM	1X		
" 0.1				
" 0.5				
" 1.0				
" 2.0				
" 5.0				
" 10.0				
ICV			7.83	Begin CLP %R=98 ✓
ICB			-0.02	✓
CCV1			4.09	%R=102 ✓
CCB1			0.01	✓
CRA			0.15	✓
NV23 MB1			0.02	✓
" MB1SPK			2.13	%R=107 ✓
" A			0.42	✓
" ADUP			0.43	✓
" ASPK			1.46	%R=104 ✓
" B				
" C				
" D				
" K				
CCV2			4.13	%R=103 ✓
CCB2			0.01	✓
NV23 L				
" M				
" N				
" REF1		2X	8.06	7.79 mg/kg ✓
NV24 A		1X		Batched w/NV23
" B				
" C				

Chemical/Reagent ID:

10% $SnCl_2$: MP1563

14% NH_2OH/NaCl: MP1558

Standard ID:

Standard: 2540-6

ICV/CCV: 45-14

Mercury Analysis Log

Analyst: KM Date: 10/24/08

Instrument: CETAC Page: 2 of 7

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
NV24 D	SMM	1X		
" J			10.32	Delete High x
" K				
CCV3			4.15	%R=104 ✓
CCB3			0.01	✓
NV24 L				
NV25 MB1			0.03	✓
" MB1SPK			2.19	%R=110 ✓
" A			0.43	✓
" ADUP			14.26	Diff. > 0.1 X
" ASPK			1.53	%R=110 ✓
" B				
" C				
" D				
" M				
CCV4			4.15	%R=104 ✓
CCB4			0.02	✓
NV25 N				
" O				
" P				
" REF1		2X	9.56	9.19 mg/kg ✓
NV27 A		1X		Batched w/NV25
" B				
" C				
" D				
NU61R MB1			0.04	✓
" MB1SPK			2.19	%R=110 ✓
CCV5			4.30	%R=108 ✓
CCB5			0.02	✓
NU61R A			0.61	✓

Chemical/Reagent ID:

10% $SnCl_2$: MP1563

14% NH_2OH/NaCl: MP1558

Standard ID:

Standard: 2540-6

ICV/CCV: 45-14

Mercury Analysis Log

Analyst: KM

Instrument: CETAC

Date: 10/24/08

Page: 3 of 7

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
NU61R ADUP	SMM	1x	0.65	RPD = 6% ✓
" ASPK			1.77	%R = 116 ✓
CCV6			4.27	%R = 107 ✓
CCB6			0.02	✓
NV24 J		2x		
NV25 A		1x	0.44	Delete Confirmed
" ADUP			14.03	Diff > 0.1 X
" ASPK			1.55	%R = 111
CCV7			4.35	%R = 109 ✓
CCB7			0.01	End CLP ✓
NV07 MB			0.04	✓
" MBSPK			2.22	%R = 111 ✓
" A			0.05	✓
" ADUP			0.08	No RPD: Undetected ✓
" ASPK			1.14	%R = 114 ✓
" B				
" C				
" D				
" E				
KM 1/08 ~~CCV8~~ NV15 MB			0.08	✓
CCV8			4.17	%R = 104 ✓
CCB8			0.01	✓
NV15 MBSPK			2.26	%R = 113 ✓
" A			0.05	✓
" ADUP			0.06	No RPD: Undetected ✓
" ASPK			1.17	%R = 117 ✓
" B				
" C				
" D				
" G				

Chemical/Reagent ID:

10% $SnCl_2$: MP1563

14% NH_2OH/NaCl: MP1558

Standard ID:

Standard: 2540-6

ICV/CCV: 45-14

ANALYTICAL RESOURCES INCORPORATED

Metals Data Review Checklist

Method: ICP ICP-MS GFA (CVA)

Analysis Date: 10/24/08

	Analyst KM 10/24	Peer MB 10/27/8	Comment
Logbook:			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration:			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
Calibration Verification:			
ICV/CCV	✓	✓	
ICB/CCB	✓	✓	
Samples:			
RSD's & SD's	✓	✓	
Internal Standards	—	—	
Carry-over	✓	✓	
Method QC:			
CRI/CRA	✓	✓	
ICSA/ICSAB	—	—	
Post Spikes/Serial Dilutions	—	—	
Analytic Spikes	—	—	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	
Matrix Duplicates	✓	✓	NV25
Method Blanks	✓	✓	
Data Distribution:			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
Necessary Analysts Notes and CAF's	✓	✓	NV25

CETAC Hg Analysis Report - 08102400.DB - Friday, October 24, 2008, 5:05:27 PM

Analyst
Date Started Friday, October 24, 2008, 11:12:22
Worksheet ARI 10ppb CALIB
Comment

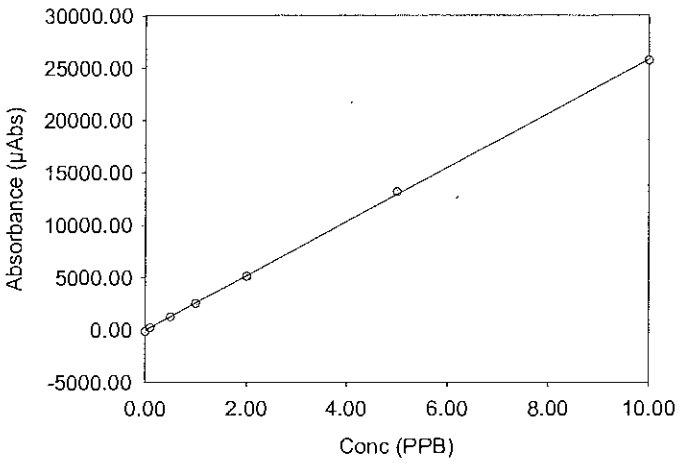
10/24/08

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
Std Tube 6	24-Oct-2008, 11:12	10.00	0.76	24700.00	1.00	

Information about this calibration could not be retrieved from the Master File.

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
Calibration Zero	24-Oct-2008, 11:13	0.00	2.30	-101.00	1.00	
Standard #1	24-Oct-2008, 11:15	0.10	1.19	239.00	1.00	
Standard #2	24-Oct-2008, 11:16	0.50	0.75	1300.00	1.00	
Standard #3	24-Oct-2008, 11:18	1.00	0.66	2550.00	1.00	
Standard #4	24-Oct-2008, 11:20	2.00	0.60	5120.00	1.00	
Standard #5	24-Oct-2008, 11:21	5.00	0.92	13200.00	1.00	
Standard #6	24-Oct-2008, 11:23	10.00	0.91	25800.00	1.00	

Calibration Data



Int.	0.000
Slope	2586.529
Correlation	0.99993

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
ICV	24-Oct-2008, 11:25	7.83	1.02	20300.00	1.00	Begin CLP
ICB	24-Oct-2008, 11:27	-0.02	10.80	-46.60	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	24-Oct-2008, 11:29	4.09	0.34	10600.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	24-Oct-2008, 11:30	0.01	22.00	23.90	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
CRA	24-Oct-2008, 11:32	0.15	0.53	388.00	1.00	
NV23 MB1 SMM	24-Oct-2008, 11:33	0.02	4.43	61.80	1.00	
NV23 MB1SPK SMM	24-Oct-2008, 11:35	2.13	0.68	5500.00	1.00	
NV23 A SMM	24-Oct-2008, 11:37	0.42	0.43	1080.00	1.00	
NV23 ADUP SMM	24-Oct-2008, 11:38	0.43	1.12	1120.00	1.00	
NV23 ASPK SMM	24-Oct-2008, 11:40	1.46	0.32	3770.00	1.00	
NV23 B SMM	24-Oct-2008, 11:41	0.28	0.20	724.00	1.00	
NV23 C SMM	24-Oct-2008, 11:43	0.19	0.33	496.00	1.00	
NV23 D SMM	24-Oct-2008, 11:45	0.25	0.32	642.00	1.00	
NV23 K SMM	24-Oct-2008, 11:46	1.37	0.15	3540.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	24-Oct-2008, 11:48	4.13	0.49	10700.00	1.00	

Analyst
Date Started Friday, October 24, 2008, 11:50:10
Worksheet ARI 10ppb CALIB
Comment

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	24-Oct-2008, 11:50	0.01	9.42	19.60	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
NV23 L SMM	24-Oct-2008, 11:51	0.75	0.14	1940.00	1.00	
NV23 M SMM	24-Oct-2008, 11:53	0.83	0.26	2160.00	1.00	
NV23 N SMM	24-Oct-2008, 11:54	0.13	0.71	342.00	1.00	
NV23 REF1 SMM	24-Oct-2008, 11:56	8.06	0.42	20800.00	2.00	
NV24 A SMM	24-Oct-2008, 11:58	0.30	0.45	777.00	1.00	
NV24 B SMM	24-Oct-2008, 11:59	0.12	0.39	322.00	1.00	
NV24 C SMM	24-Oct-2008, 12:01	0.07	0.65	186.00	1.00	
NV24 D SMM	24-Oct-2008, 12:03	0.06	1.87	151.00	1.00	
NV24 J SMM	24-Oct-2008, 12:04	10.30	0.48	26700.00	1.00	— High
NV24 K SMM	24-Oct-2008, 12:06	1.17	0.62	3030.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	24-Oct-2008, 12:07	4.15	0.04	10700.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	24-Oct-2008, 12:09	0.01	7.63	23.70	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
NV24 L SMM	24-Oct-2008, 12:11	0.32	0.30	840.00	1.00	
NV25 MB1 SMM	24-Oct-2008, 12:12	0.03	1.00	87.40	1.00	
NV25 MB1SPK SMM	24-Oct-2008, 12:14	2.19	0.74	5660.00	1.00	
NV25 A SMM	24-Oct-2008, 12:16	0.43	0.73	1110.00	1.00	
NV25 ADUP SMM	24-Oct-2008, 12:17	14.30	0.37	36900.00	1.00	— Diff > 0.1
NV25 ASPK SMM	24-Oct-2008, 12:20	1.53	0.28	3970.00	1.00	
NV25 B SMM	24-Oct-2008, 12:22	0.59	0.49	1540.00	1.00	
NV25 C SMM	24-Oct-2008, 12:23	0.42	0.84	1090.00	1.00	
NV25 D SMM	24-Oct-2008, 12:25	0.08	1.01	217.00	1.00	
NV25 M SMM	24-Oct-2008, 12:26	0.53	0.47	1380.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	24-Oct-2008, 12:28	4.15	0.39	10700.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	24-Oct-2008, 12:30	0.02	1.77	48.10	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
NV25 N SMM	24-Oct-2008, 12:31	0.65	0.65	1680.00	1.00	
NV25 O SMM	24-Oct-2008, 12:33	0.07	1.44	177.00	1.00	
NV25 P SMM	24-Oct-2008, 12:35	0.07	1.43	191.00	1.00	
NV25 REF1 SMM	24-Oct-2008, 12:36	9.56	0.32	24700.00	2.00	
NV27 A SMM	24-Oct-2008, 12:38	0.09	1.09	241.00	1.00	
NV27 B SMM	24-Oct-2008, 12:40	0.06	1.98	162.00	1.00	
NV27 C SMM	24-Oct-2008, 12:41	0.09	1.74	240.00	1.00	
NV27 D SMM	24-Oct-2008, 12:43	0.08	0.86	214.00	1.00	
NU61R MB1 SMM	24-Oct-2008, 12:44	0.04	1.59	92.30	1.00	
NU61R MB1SPK SMM	24-Oct-2008, 12:46	2.19	0.29	5660.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	24-Oct-2008, 12:48	4.30	0.29	11100.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	24-Oct-2008, 12:49	0.02	3.66	47.20	1.00	

Analyst
Date Started Friday, October 24, 2008, 12:51:27
Worksheet ARI 10ppb CALIB
Comment

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
NU61R A SMM	24-Oct-2008, 12:51	0.61	0.31	1580.00	1.00	
NU61R ADUP SMM	24-Oct-2008, 12:53	0.65	0.33	1680.00	1.00	
NU61R ASPK SMM	24-Oct-2008, 12:54	1.77	0.53	4590.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	24-Oct-2008, 12:56	4.27	0.36	11000.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	24-Oct-2008, 12:58	0.02	1.11	46.10	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
NV24 J SMM	24-Oct-2008, 13:01	5.33	0.25	13800.00	2.00	
NV25 A SMM	24-Oct-2008, 13:03	0.44	0.35	1150.00	1.00	
NV25 ADUP SMM	24-Oct-2008, 13:04	14.00	0.97	36300.00	1.00	— Diff > 0.1
NV25 ASPK SMM	24-Oct-2008, 13:07	1.55	0.21	4000.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	24-Oct-2008, 13:09	4.35	0.42	11300.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	24-Oct-2008, 13:10	0.01	8.44	34.40	1.00	End CLP

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
NV07 MB SMM	24-Oct-2008, 13:12	0.04	2.27	95.70	1.00	
NV07 MBSPK SMM	24-Oct-2008, 13:14	2.22	0.74	5730.00	1.00	
NV07 A SMM	24-Oct-2008, 13:15	0.05	2.67	125.00	1.00	
NV07 ADUP SMM	24-Oct-2008, 13:17	0.08	0.80	207.00	1.00	
NV07 ASPK SMM	24-Oct-2008, 13:19	1.14	0.22	2950.00	1.00	
NV07 B SMM	24-Oct-2008, 13:20	0.83	0.18	2160.00	1.00	
NV07 C SMM	24-Oct-2008, 13:22	0.26	0.74	684.00	1.00	
NV07 D SMM	24-Oct-2008, 13:23	1.37	0.73	3530.00	1.00	
NV07 E SMM	24-Oct-2008, 13:25	1.61	0.48	4150.00	1.00	
NV15 MB SMM	24-Oct-2008, 13:27	0.08	0.77	198.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	24-Oct-2008, 13:28	4.17	0.67	10800.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Blank	24-Oct-2008, 13:30	0.01	4.37	36.40	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
NV15 MBSPK SMM	24-Oct-2008, 13:32	2.26	0.74	5840.00	1.00	
NV15 A SMM	24-Oct-2008, 13:33	0.05	1.02	122.00	1.00	
NV15 ADUP SMM	24-Oct-2008, 13:35	0.06	0.61	160.00	1.00	
NV15 ASPK SMM	24-Oct-2008, 13:36	1.17	0.44	3020.00	1.00	
NV15 B SMM	24-Oct-2008, 13:38	0.15	0.41	398.00	1.00	
NV15 C SMM	24-Oct-2008, 13:40	0.08	1.30	202.00	1.00	
NV15 D SMM	24-Oct-2008, 13:41	0.12	1.47	317.00	1.00	
NV15 G SMM	24-Oct-2008, 13:43	0.10	0.56	252.00	1.00	
NV44 MB SMM	24-Oct-2008, 13:45	0.03	2.03	89.60	1.00	
NV44 MBSPK SMM	24-Oct-2008, 13:46	2.24	0.25	5780.00	1.00	

Sample ID	Analysis Time	Conc (PPB)	%RSD	Avg. µAbs	Dilution	Flags
QC Standard	24-Oct-2008, 13:48	4.06	0.44	10500.00	1.00	

Mercury Standard Prep Log

Prep Code: TWM Digested 20.0mL Instrument: CETAC

Analyst: KM Date: 10/23/08

Bath Temp: 95°C Start Time: 1100 End Time: 1300

Standard ID	Stock ID	Volume Added (mL)	Final Volume (mL)	Standard Conc. (µg/L)	Number Made
STD0	—	0.00	100.0	0.0	1
STD1	2540-6	0.01		0.1	1
STD2		0.05		0.5	1
STD3		0.10		1.0	1
STD4		0.20		2.0	1
STD5		0.50		5.0	1
STD6		1.00		10.0	1
CRA		0.01		0.1	1
ICB/CCB	—	0.00		0.0	1
ICV/LCS	45-14	0.16		8.0	1
CCV		0.08	100.0	4.0	1

Chemical/Reagent ID:

HNO_3: I4397 H_2SO_4: I4504 HCl: —

5% $K_2S_2O_8$: MP1561 5% $KMnO_4$: MP1560

Prep Code: SMM Instrument: CETAC

Analyst: KM Date: 10/23/08

Bath Temp: 95°C Start Time: 1110 End Time: 1140

Standard ID	Stock ID	Volume Added (mL)	Final Volume (mL)	Standard Conc. (µg/L)	Number Made
STD0	—	0.00	100.0	0.0	2
STD1	2540-6	0.01		0.1	2
STD2		0.05		0.5	2
STD3		0.10		1.0	2
STD4		0.20		2.0	2
STD5		0.50		5.0	2
STD6		1.00		10.0	2
CRA		0.01		0.1	1
ICB/CCB	—	0.00		0.0	2
ICV/LCS	45-14	0.16		8.0	2
CCV		0.08	100.0	4.0	2

Chemical/Reagent ID:

HNO_3: I4397 H_2SO_4: I4504 HCl: —

5% $K_2S_2O_8$: MP1561 5% $KMnO_4$: MP1560

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Mercury Digestion Log

Prep Code: 5mm
Analyst: DM
Bath Temp: 95°C
Start Time: 1450
Matrix: Soil
Date: 10·21·08
End Time: 1520

ARI Sample ID	Sample Bottle #	BOD Bottle #	pH<2	Initial Weight (g) Volume (mL)	Final Volume (mL)	# $KMnO_4$ Aliquots	CL P	Comments
NV25 A	1	F10	—	0.219	100.0	10|31 1	A	
" ADUP	1	T19	—	0.215		1		
" ASPK	1	A14	—	0.215		1		
" B	1	F21	—	0.233		1		
" C	1	F11	—	0.277		1		
" D	1	F20	—	0.298		1		
" M	1	T24	—	0.230		1		
" N	1	L1	—	0.219		1		- BATCH
" O	1	F8	—	0.263		1		
" P	1	X19	—	0.256		1		
" REF1	D053	F22	—	0.208		1		
" MB1	—	J9	—	—		1		
" MB1SPK	—	V8	—	—		1		
NV27 A	1	X18	—	0.285		9|31 1		
" B	1	L11	—	0.223		1		
" C	1	K1	—	0.278		1		
" D	1	T9	—	0.237		1		
NV61R A	—	K6	—	0.236		10|9 1		Comp. of A + C
" ADUP	—	T6	—	0.237		1		" "
" ASPK	—	P2	—	0.239		1		" "
" MB1	—	V18	—	—		1		
" MB1SPK	—	A21	—	—	100.0	1	A	
				10·21·08 DM				

Chemical/Reagent ID:

HNO_3: I4397
H_2SO_4: I4504
HCl: —
5% $K_2S_2O_8$: MP1545
5% $KMnO_4$: MP1560
Digest Tube Lot: —

Metals Analysis
Prep Logs

prepared
for

Anchor Environmental, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NU61

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SPIKING LOG

NU61R ASPK, MBISPK

Analyst: DM

Date: 10.21.08

Final Volume _____

Final Volume (Hg): 100

Sample ID NV23 ASPK, MBISPK
NV25 ASPK, MBISPK

		Prepcode:		
		Spike Solution:	ICP Routine	ICP No GFA	GFA
		Standard No.:			
		Vol Added (mL):			
	Ag	50		2.0
S	Al	200	200	
T	As	200		10
O	Ba	200	200	
C	Be	50	50	
K	Ca	1000	1000	
	Cd	50		2.0
	Co	50	50	
C	Cr	50	50	
O	Cu	50	50	
N	Fe	200	200	
C	K	1000	1000	
E	Mg	1000	1000	
N	Mn	50	50	
T	Na	1000	1000	
R	Ni	50	50	
A	Pb	200		10
T	Se	200		10
I	Sr	50	50	
O	Tl	200		10
N	V	50	50	
	Zn	50	50	

	ICP-MS #1	ICP-MS #2	ICP-MS Minerals
Ag	25		
Al			500
As	25		
Ba	25		
Be	25		
Ca			500
Cd	25		
Co	25		
Cr	25		
Cu	25		
Fe			500
K			500
Mg			500
Mn	25		
Mo		25	
Na			500
Ni	25		
Pb	25		
Sb		25	
Se	80		
Th	25		
U	25		
V	25		
Zn	80		

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std No.
Hg	5mm	CVA	1.0	0.1	2514-4
Hg MBSPK	↓	CVA	1.0	0.2	↓
Sb		ICP	2000		
Sb		GFA	100		
B		ICP	500		
Mo		ICP	500		
Si		ICP	10000		
Sn		ICP	500		
Ti		ICP	2000		

Additional Elements:

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std. No.

0053

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SPIKING LOG

Analyst: DM

Date: 10-16-08

Final Volume _____

Final Volume (Hg): 100

Sample ID NU61 MBSPK

Prepcode:				
Spike Solution:		ICP Routine	ICP No GFA	GFA
Standard No.:				
Vol Added (mL):				
STOCK CONCENTRATION	Ag	50		2.0
	Al	200	200	
	As	200		10
	Ba	200	200	
	Be	50	50	
	Ca	1000	1000	
	Cd	50		2.0
	Co	50	50	
	Cr	50	50	
	Cu	50	50	
	Fe	200	200	
	K	1000	1000	
	Mg	1000	1000	
	Mn	50	50	
	Na	1000	1000	
	Ni	50	50	
	Pb	200		10
	Se	200		10
	Sr	50	50	
	Tl	200		10
	V	50	50	
	Zn	50	50	

	ICP-MS #1	ICP-MS #2	ICP-MS Minerals
Ag	25		
Al			500
As	25		
Ba	25		
Be	25		
Ca			500
Cd	25		
Co	25		
Cr	25		
Cu	25		
Fe			500
K			500
Mg			500
Mn	25		
Mo		25	
Na			500
Ni	25		
Pb	25		
Sb		25	
Se	80		
Th	25		
U	25		
V	25		
Zn	80		

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std No.
Hg		CVA	1.0		
Hg MBSPK	SMM	CVA	1.0	0.2	2514-4
Sb		ICP	2000		
Sb		GFA	100		
B		ICP	500		
Mo		ICP	500		
Si		ICP	10000		
Sn		ICP	500		
Ti		ICP	2000		

Additional Elements:

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std. No.

0054

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Mercury Digestion Log

Prep Code: 5mm Matrix: Soil

Analyst: DM Date: 10-16-08

Bath Temp: 95°C Start Time: 1135 End Time: 1205

ARI Sample ID	Sample Bottle #	BOD Bottle #	pH<2	Initial Weight (g) ~~Volume (mL)~~	Final Volume (mL)	# $KMnO_4$ Aliquots	CL P	Comments
NU61 A	Comp A+C	√22	—	0.210	100.0	1	①	
" ADUP	Comp A+C	K11	—	0.215	↓	1	↓	
" MB1	—	A12	—	—	↓	1	↓	
" MBSPK	—	T8	—	—	100.0	1	①	

10-16-08 DM

Chemical/Reagent ID:

HNO_3: I4397 H_2SO_4: I4504 HCl: —

5% $K_2S_2O_8$: MP1545 5% $KMnO_4$: MP1546 Digest Tube Lot: —

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Mercury Digestion Log

Prep Code: 5mm Matrix: Soil
Analyst: DM Date: 10.21.08
Bath Temp: 95°C Start Time: 1450 End Time: 1520

ARI Sample ID	Sample Bottle #	BOD Bottle #	pH<2	Initial Weight (g) ~~Volume (mL)~~	Final Volume (mL)	# $KMnO_4$ Aliquots	CL P	Comments
NV26 A	1	F16	—	0.219	100.0	10/31 1	Y	←
" ADUP	1	T19	—	0.215		1		
" ASPK	1	A14	—	0.215		1		
" B	1	F21	—	0.233		1		
" C	1	F11	—	0.277		1		
" D	1	F20	—	0.298		1		
" M	1	T24	—	0.230		1		
" N	1	L1	—	0.219		1		- BATCH
" O	1	F8	—	0.263		1		
" P	1	X19	—	0.256		1		
" REF1	D053	F22	—	0.208		1		
" MB1	—	J9	—	—		1		
" * MB1SPK	—	V8	—	—		1		
NV27 A	1	X18	—	0.285		P/31 1		
" B	1	L11	—	0.223		1		
" C	1	K1	—	0.278		1		
" D	1	T9	—	0.237		1		←
NU61R A	—	K6	—	0.236		10/19 1		Comp. of A + C
" ADUP	—	T6	—	0.237		1		" "
" ASPK	—	P2	—	0.239		1		" "
" MB1	—	Y18	—	—		1		
" MB1SPK	—	A21	—	—	100.0	1	Y	
				10-21-08 DM				

Chemical/Reagent ID:

HNO_3: I4307 H_2SO_4: I4504 HCl: —

5% $K_2S_2O_8$: MP1545 5% $KMnO_4$: MP1560 Digest Tube Lot: —

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Metals Total Solids

Oven in:
Analyst: DM Date: 10-16-08 Time: 1120 Temp: 100°C

Oven out:
Analyst: DM Date: 10-17-08 Time: 0900 Temp: 100°C

ARI Sample ID	Tare Weight (g)	Tare + Sample Wet (g)	Tare + Sample Dry (g)	Comments
NU 10 A	1.010	10.833	6.505	
" B	0.994	10.435	6.819	
" C	1.045	10.452	6.792	
" D	1.040	10.414	6.509	
" E	1.034	10.634	7.345	
" F	1.031	10.293	6.295	
NU61 A	1.025	10.670	7.046	
		10-16-08 DM		

CORRECTIVE ACTIONS - Inorganic Analyses

ANALYTICAL RESOURCES INCORPORATED

Criteria Flagged

ARI Project No.: NU61 Client Name: Anchor

Date of Out-of-Control Event: 10/17/08 Method/Element: Hg CVA

Unacceptable Blank	
Unacceptable Duplicate	X
Unacceptable Spike	
Unacceptable Reference	

Prep Code: SMM

Other:

Details of Problem/Recommended Corrective Action:

1st Analysis: A → 0.66
ADUP → 5.80 RPD = 159% High

2nd Analysis: A → 0.66
ADUP → 6.01 RPD = 160% High

Samples Affected: A, ADUP, MB1, MB1SPK

Corrective Action Taken:

redo

Analyst: KM Supervisor:

Date: 10/17/08 Date: 10/20/08

0058

5049F

Rev. 6
10/28/02

Geotech Analysis

prepared
for

Anchor Environmental, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NU61

prepared
by

Analytical Resources, Inc.

Analytical Resources, Inc.

Pore Water Extraction

ARI Job No.: KUU61 Date: 10/16/08 Tested By: eg Analytes: _____

Aerobic ( )
Anaeorobic (✓)

Volume Required: _____

Filtered ( )
Filter Material: _____
Filter Size: _____

Centrifugation 1:	Speed:	3,000rpm	Temp:	4°C	Duration:	30min	O2 Level:	<1%
Centrifugation 2:	Speed:	7,000rpm	Temp:	4°C	Duration:	30min	O2 Level:	<1%

Centrifugation 1

ARI ID	Start Time	Estimated Recovery	Decant Time
A+C	11:01		11:40
	~~11:44~~		

Centrifugation 2

ARI ID	Start Time	Estimated Recovery	Decant Time
A+C	11:44		12:22

0060

Notes:

TOTAL SOLIDS

Solids Data Entry Report Checked by: MH Date: 10/20/08
Date: 10/17/08 Data Analyst: KM

Solids Determination performed on 10/16/08 by DM

JOB	SAMPLE	CLIENTID	TAREWEIGHT	SAMPDISH	DRYWEIGHT	SOLIDS
NU61	A	EB-SE-03-Z-081015	1.025	10.670	7.046	62.43

Analytical Resources, Incorporated
Analytical Chemists and Consultants

October 24, 2008

Joy Dunay
Anchor Environmental
1423 3rd Avenue, Suite 300
Seattle, WA 98101

RE: 040289-02 Eddon Boatyard
ARI Job No. NT88

Dear Joy:

Please find enclosed the original chain of custody documentation and the final data package for samples from the project referenced above.

Sample receipt and details of the analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Susan Dunnihoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures

cc: eFile NT88

SD/sdrd

Chain of Custody Documentation

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NT88

Prepared
By

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested: 72 hour on SED.	Page: 1 of 1	
ARI Client Company: Anchor Environmental	Phone: 206-903-3320	Date: 10/3/08	Ice Present?
Client Contact: Joy Duray		No. of Coolers:	Cooler Temps:
Client Project Name: EDDON Boatyard			
Client Project #: 040289-02	Samplers: JD, DG		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Total Solid	TOC	SMS Metals	SMS SVOCs	TBT (Krone) Porewater	SMS PCBs	MTCA PAHs	Grainsize PSEP	Notes/Comments
EB-SE01-A-081003	10/3/08	1300	SE	2					X				72 HOUR RUSH
EB-SE02-A-081003		1230	SE	2					X				
EB-SE03-A-081003		1145	SE	5	X	X	X	X	X	X		X	
EB-SE03-B-081003		1150	SE	1									ARCHIVE ONLY
EB-SE04-A-081003		1200	SE	4	X	X	X	X	X	X		X	
EB-SE04-B-081003		1205	SE	1									ARCHIVE ONLY
EBSO01-COMP-081003		1415	SO	1	X						X		

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
RUSH TAT 72 hrs. on SEDIMENT SAMPLES	(Signature) Joy Duray	(Signature) Jonathan Walter	(Signature)	(Signature)
	Printed Name: Joy Duray	Printed Name: Jonathan Walter	Printed Name:	Printed Name:
	Company: Anchor Env.	Company: ARI	Company:	Company:
	Date & Time: 10/3/08 1600	Date & Time: 10/3/08 1600	Date & Time:	Date & Time:

2000

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Anchor
COC No: _____
Assigned ARI Job No: _____

Project Name: EDDN Boatyard
Delivered by: Hand
Tracking No: _____

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES (NO)
Were custody papers included with the cooler? (YES) NO
Were custody papers properly filled out (ink, signed, etc.) (YES) NO
Record cooler temperature (recommended 2.0-6.0 °C for chemistry 8.2 °C

Cooler Accepted by: JW Date: 10/3/08 Time: 1600

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)
What kind of packing material was used? ICE
Was sufficient ice used (if appropriate)? YES (NO)
Were all bottles sealed in individual plastic bags? YES (NO)
Did all bottle arrive in good condition (unbroken)? (YES) NO
Were all bottle labels complete and legible? (YES) NO
Did all bottle labels and tags agree with custody papers? YES (NO)
Were all bottles used correct for the requested analyses? (YES) NO
Do any of the analyses (bottles) require preservation? (attach preservation checklist) YES (NO)
Were all VOC vials free of air bubbles? (NA) YES NO
Was sufficient amount of sample sent in each bottle? (YES) NO

Samples Logged by: JW Date: 10/3/08 Time: 1635

*** Notify Project Manager of discrepancies or concerns ***

Explain discrepancies or negative responses:
Extra sample logged in as 3A,
EB-SE04-A-081003 had 1 extra jar

By: Date:

0003

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: NT87	Turn-around Requested:	Page:	of
ARI Client Company: ANCHOR	Phone:	Date:	Ice Present?
Client Contact: JOY DUNAY		No. of Coolers: Lab Trans.	Cooler Temps: AMB
Client Project Name: EDDON BOATYARD			
Client Project #: 040289-02	Samplers:		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: TBT	Notes/Comments
EB-SED03-B-081003	10/13/08	9:40	H_2O	1	✓	

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name:	Printed Name:	Printed Name:	Printed Name:
	Company:	Company:	Company:	Company:
08-27343	Date & Time:	Date & Time:	Date & Time:	Date & Time:

Case Narrative

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NT88

Prepared
By

Analytical Resources, Inc.

Case Narrative

Client: Anchor Environmental
Project: 040289-02 Eddon Boatyard
ARI Job Nos. NT88

Sample receipt

Seven sediment samples were received by Analytical Resources on October 3, 2008 at a cooler temperature of 8.2°C measured by IR thermometer. Samples were well-iced, in good condition and received within a short time of sampling. One additional container was received marked simply as "3A". The jar was logged as an additional sample and Anchor informed of the discrepancy. Samples were logged under ARI Job NS52 for bulk analysis and pore water extractions.

On October 13, ARI was instructed to analyze sample EB-SE03-B-081008 for pore water TBT. Only one 8 oz. container was received for analysis, and only 44 mL of pore water could be generated. Results are reported here under ARI Job NT88.

TBT by SW8270-SIM

The sample was extracted and analyzed within the method recommended holding times.

Initial and continuing calibrations were within method requirements. Internal standard areas were within limits.

The method blank was clean at the reporting limit. The LCS was run in duplicate with recoveries and RPDs within limits.

Surrogates recoveries were within ARI limits.

LCS SOLUTIONS

9/4/2008

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
1	1534-5	PCB	20	MEOH	08/26/09
2	1472-3	BCOC PEST	10	ACETONE	07/20/08
3	1517-1	PEST	02/04/20	ACETONE	05/15/09
4	1515-1	LOW PEST	0.2/0.4/2	ACETONE	01/24/09
5	1537-1	EPH	1500	MECL2	08/16/09
6*	1456-3	PCP	12.5	ACETONE	04/18/09
7	1537-3	ABN	100	ACETONE	08/01/09
8	1487-2	TBT	10	MECL2	12/15/08
9	1493-3	PORE TBT	.25/.5	MECL2	12/15/08
10	1537-2	ABN ACID	100/200	MEOH	04/10/09
11	1526-1	TPHD	15000	ACETONE	06/25/09
12	1533-1	ABN BASE	200	ACETONE	07/01/09
13*	1427-3	LOW PCB	2	ACETONE	10/11/08
14	1480-2	LOW ABN ACID	10/20	MEOH	10/09/08
15*	1452-1	SIM PNA	15/75	MEOH	04/09/09
16	1502-2	DIOXANE	100	MEOH	02/20/09
17	1516-2	1248 PCB	20	ACETONE	05/07/09
18	1514-4	LOW SIM PNA	1.5/7.5	ACETONE	04/24/09
19	1517-3	AK103	7500	MECL2	12/29/08
20	1490-4	PNA	100	MEOH	01/10/09
21*	1414-4	SKY/BHT	100	MEOH	04/08/09
22	1539-1	HERB	12.5/12500	MEOH	08/31/09
23	1505-1	LOW ABN BASE	20	MEOH	03/20/09
24	1504-4	LOW ABN	10	ACETONE	10/01/08
25	1481-1	DIPHENYL	100	MEOH	07/20/08
26	1522-2	OP-PEST	30	MEOH	11/30/08
27	1495-1	STEROLS	200	MEOH	12/29/08
28	1494-1	ADD. PEST	4	ACETONE	01/23/09
29	1496-3	DECANES	100	MEOH	02/12/09
30	1497-2	EDB/DBCP	2	ACETONE	02/12/09
31	1510-3	TERPINEOL	100	MEOH	03/21/09

LCS SOLUTIONS

9/4/2008

32	1533-2	GUAIACOL	50-200	ACETONE	06/05/09
33	1522-1	RESIN ACID	250	ACETONE	06/11/09
34	1530-2	CONGENERS	250	ACETONE	07/23/09
50	1523-1	FULL RESIN	250	ACETONE	06/10/09
*=REVERIFIED SOLUTION					

SURR SOLUTIONS

9/4/2008

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
A	1525-4	ABN	100/150	MEOH	03/13/09
B	1513-1	SIM PNA	15/75	MEOH	04/15/09
C*	1443-1	SIM ABN	10/15	MEOH	04/03/09
D	1516-3	LOW PCB	0.2	ACETONE	05/09/09
E	1478-1	HERB	62.5	MEOH	09/21/08
F	1520-3	PCP	12.5	ACETONE	04/18/09
G	1502-3	1,4DIOXANE	100	MEOH	02/20/09
H	1504-2	OP-PEST	25	MEOH	03/20/09
I*	1458-1	LOW S. PNA	03/15	MEOH	06/05/09
J	1493-2	TBT-PORE	0.25	MECL2	12/15/08
K	1490-3	MED PCB	20	ACETONE	01/14/09
L	1486-5	TBT	10	MECL2	12/15/08
M	1518-3	EPH	1500	MECL2	05/10/09
N	1518-4	PCB	2	ACETONE	05/29/09
O	1521-3	TPH	450	MECL2	12/29/08
P	1518-2	HCID	2250	MECL2	12/29/08
Q	1497-3	EDB	2	ACETONE	02/12/09
R	1521-4	RESIN ACID	250	ACETONE	06/11/09
S	*RE-VER	FIED SOLUTION			
T					
U					
V					
W					
X					
Y					
Z					

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U	Indicates that the target analyte was not detected at the reported concentration
*	Duplicate RPD is not within established control limits
B	Reported value is less than the CRDL but ≥ the Reporting Limit
N	Matrix Spike recovery not within established control limits
NA	Not Applicable, analyte not spiked
H	The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
L	Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U	Indicates that the target analyte was not detected at the reported concentration
*	Flagged value is not within established control limits
B	Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
J	Estimated concentration when the value is less than ARI's established reporting limits
D	The spiked compound was not detected due to sample extract dilution
NR	Spiked compound recovery is not reported due to chromatographic interference
E	Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
S	Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
NA	The flagged analyte was not analyzed for
NS	The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.

F Samples were frozen prior to particle size determination

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

Data Summary Package

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NT88

Prepared
By

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS

Sample ID: EB-SE03-B-081008
SAMPLE

Lab Sample ID: NT88A
LIMS ID: 08-27343
Matrix: Pore Water
Data Release Authorized:
Reported: 10/14/08

QC Report No: NT88-Anchor Environmental, LLC
Project: Eddon Boatyard
Event: 040289-02
Date Sampled: 10/13/08
Date Received: 10/13/08

Date Extracted: 10/13/08
Date Analyzed: 10/14/08 12:57
Instrument/Analyst: NT1/VTS

Sample Amount: 44.0 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyl Tin Ion	0.018	0.23	
DBT_ION	Dibutyl Tin Ion	0.026	0.036	
BT_ION	Butyl Tin Ion	0.019	0.028	

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	78.3%
Tripentyl Tin Chloride	70.8%

ANALYTICAL RESOURCES INCORPORATED

TBT SURROGATE RECOVERY SUMMARY

Matrix: Pore Water

QC Report No: NT88-Anchor Environmental, LLC
Project: Eddon Boatyard
Event: 040289-02

Client ID	TPRT	TPNT	TOT OUT
MB-101308	76.6%	82.8%	0
LCS-101308	76.6%	79.6%	0
LCSD-101308	77.9%	77.5%	0
EB-SE03-B-081008	78.3%	70.8%	0

	LCS/MB LIMITS	QC LIMITS
(TPRT) = Tripropyl Tin Chloride	(32-114)	(36-107)
(TPNT) = Tripentyl Tin Chloride	(58-113)	(58-120)

Prep Method: SW3510C
Analytical Method: TBT (Hexyl) Krone 1988
Log Number Range: 08-27343 to 08-27343

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: LCS-101308
LAB CONTROL SAMPLE

Lab Sample ID: LCS-101308
LIMS ID: 08-27343
Matrix: Pore Water
Data Release Authorized: MW
Reported: 10/14/08

QC Report No: NT88-Anchor Environmental, LLC
Project: Eddon Boatyard
040289-02
Date Sampled: NA
Date Received: NA

Date Extracted LCS: 10/13/08

Date Analyzed LCS: 10/14/08 12:18
LCSD: 10/14/08 12:38
Instrument/Analyst LCS: NT1/VTS
LCSD: NT1/VTS

Sample Amount LCS: 100 mL
LCSD: 100 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Alumina Cleanup: Yes

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Tributyl Tin Ion	0.081	0.112	72.3%	0.094	0.112	83.9%	14.9%
Dibutyl Tin Ion	0.128	0.192	66.7%	0.142	0.192	74.0%	10.4%
Butyl Tin Ion	0.035	0.156	22.4%	0.053	0.156	34.0%	40.9%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

TBT Surrogate Recovery

	LCS	LCSD
Tripropyl Tin Chloride	76.6%	77.9%
Tripentyl Tin Chloride	79.6%	77.5%

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

NT88MBW1

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NT88 Project: EDDON BOATYARD

Lab File ID: NT88MB Date Extracted: 10/13/08

Instrument ID: NT1 Date Analyzed: 10/14/08

Matrix: LIQUID Time Analyzed: 1159

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	NT88LCSW1	NT88LCSW1	NT88SB	10/14/08
02	NT88LCSDW1	NT88LCSDW1	NT88SBD	10/14/08
03	EB-SE03-B-081008	NT88A	NT88A	10/14/08
04				
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COMMENTS:

FORM IV SV

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: MB-101308
METHOD BLANK

Lab Sample ID: MB-101308
LIMS ID: 08-27343
Matrix: Pore Water
Data Release Authorized:
Reported: 10/14/08

QC Report No: NT88-Anchor Environmental, LLC
Project: Eddon Boatyard
Event: 040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 10/13/08
Date Analyzed: 10/14/08 11:59
Instrument/Analyst: NT1/VTS

Sample Amount: 100 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyl Tin Ion	0.008	< 0.008	U
DBT_ION	Dibutyl Tin Ion	0.012	< 0.012	U
BT_ION	Butyl Tin Ion	0.008	< 0.008	U

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	76.6%
Tripentyl Tin Chloride	82.8%

Laboratory Data Package

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NT88

Prepared
By

Analytical Resources, Inc.

TBT Analysis
QC Summary Data

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NT88

Prepared
By

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

TBT SURROGATE RECOVERY SUMMARY

Matrix: Pore Water

QC Report No: NT88-Anchor Environmental, LLC
Project: Eddon Boatyard
Event: 040289-02

Client ID	TPRT	TPNT	TOT OUT
MB-101308	76.6%	82.8%	0
LCS-101308	76.6%	79.6%	0
LCSD-101308	77.9%	77.5%	0
EB-SE03-B-081008	78.3%	70.8%	0

	LCS/MB LIMITS	QC LIMITS
(TPRT) = Tripropyl Tin Chloride	(32-114)	(36-107)
(TPNT) = Tripentyl Tin Chloride	(58-113)	(58-120)

Prep Method: SW3510C
Analytical Method: TBT (Hexyl) Krone 1988
Log Number Range: 08-27343 to 08-27343

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: LCS-101308
LAB CONTROL SAMPLE

Lab Sample ID: LCS-101308
LIMS ID: 08-27343
Matrix: Pore Water
Data Release Authorized: MW
Reported: 10/14/08

QC Report No: NT88-Anchor Environmental, LLC
Project: Eddon Boatyard
040289-02
Date Sampled: NA
Date Received: NA

Date Extracted LCS: 10/13/08

Date Analyzed LCS: 10/14/08 12:18
LCSD: 10/14/08 12:38
Instrument/Analyst LCS: NT1/VTS
LCSD: NT1/VTS

Sample Amount LCS: 100 mL
LCSD: 100 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Alumina Cleanup: Yes

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Tributyl Tin Ion	0.081	0.112	72.3%	0.094	0.112	83.9%	14.9%
Dibutyl Tin Ion	0.128	0.192	66.7%	0.142	0.192	74.0%	10.4%
Butyl Tin Ion	0.035	0.156	22.4%	0.053	0.156	34.0%	40.9%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

TBT Surrogate Recovery

	LCS	LCSD
Tripropyl Tin Chloride	76.6%	77.9%
Tripentyl Tin Chloride	79.6%	77.5%

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

NT88MBW1

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NT88 Project: EDDON BOATYARD

Lab File ID: NT88MB Date Extracted: 10/13/08

Instrument ID: NT1 Date Analyzed: 10/14/08

Matrix: LIQUID Time Analyzed: 1159

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	NT88LCSW1	NT88LCSW1	NT88SB	10/14/08
02	NT88LCSDW1	NT88LCSDW1	NT88SBD	10/14/08
03	EB-SE03-B-081008	NT88A	NT88A	10/14/08
04				
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COMMENTS:

FORM IV SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

Instrument ID: NT1 Project: EDDON BOATYARD

DFTPP Injection Date: 10/08/08 DFTPP Injection Time: 1429

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	48.1
68	Less than 2.0% of mass 69	0.1 (0.1)1
69	Mass 69 relative abundance	50.8
70	Less than 2.0% of mass 69	0.1 (0.1)1
127	25.0 - 75.0% of mass 198	51.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	8.2
275	10.0 - 30.0% of mass 198	19.7
365	Greater than 0.75% of mass 198	2.65
441	Present, but less than mass 443	1.2
442	40.0 - 110.0% of mass 198	73.0
443	15.0 - 24.0% of mass 442	14.0 (19.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		IC1008A	IC1008A	10/08/08	1449
02		IC1008B	IC1008B	10/08/08	1515
03		IC1008C	IC1008C	10/08/08	1535
04		IC1008D	IC1008D	10/08/08	1555
05		IC1008E	IC1008E	10/08/08	1614
06		IC1008F	IC1008F	10/08/08	1634
07					
08					
09					
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FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

Instrument ID: NT1 Project: EDDON BOATYARD

DFTPP Injection Date: 10/14/08 DFTPP Injection Time: 0907

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	51.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	59.5
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	25.0 - 75.0% of mass 198	53.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.9
275	10.0 - 30.0% of mass 198	18.8
365	Greater than 0.75% of mass 198	1.90
441	Present, but less than mass 443	14.3
442	40.0 - 110.0% of mass 198	73.0
443	15.0 - 24.0% of mass 442	15.1 (20.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		CC1014	CC1014	10/14/08	0926
02	NT88MBW1	NT88MBW1	NT88MB	10/14/08	1159
03	NT88LCSW1	NT88LCSW1	NT88SB	10/14/08	1218
04	NT88LCSDW1	NT88LCSDW1	NT88SBD	10/14/08	1238
05	EB-SE03-B-081008	NT88A	NT88A	10/14/08	1257
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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NT88 Project: EDDON BOATYARD

Cont. Calib. ID: CC1014 Date Analyzed: 10/14/08

Instrument ID: NT1 Time Analyzed: 0926

		IS1 AREA	#	RT	#	IS2 AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	127356		9.24		125778		10.14					
	UPPER LIMIT	254712		9.74		251556		10.64					
	LOWER LIMIT	63678		8.74		62889		9.64					
	CLIENT SAMP. NO.												
01	NT88MBW1	130769		9.23		125425		10.14					
02	NT88LCSW1	131992		9.24		129008		10.14					
03	NT88LCSDW1	125707		9.23		123757		10.14					
04	EB-SE03-B-08	122139		9.24		122818		10.14					
05													
06													
07													
08													
09													
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12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 = Tetrapentyl Tin
IS2 = p-Terphenyl-d14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

TBT Analysis
Sample Data

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NT88

Prepared
By

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: EB-SE03-B-081008
SAMPLE

Lab Sample ID: NT88A
LIMS ID: 08-27343
Matrix: Pore Water
Data Release Authorized: MW
Reported: 10/14/08

QC Report No: NT88-Anchor Environmental, LLC
Project: Eddon Boatyard
Event: 040289-02
Date Sampled: 10/13/08
Date Received: 10/13/08

Date Extracted: 10/13/08
Date Analyzed: 10/14/08 12:57
Instrument/Analyst: NT1/VTS

Sample Amount: 44.0 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyl Tin Ion	0.018	0.23	
DBT_ION	Dibutyl Tin Ion	0.026	0.036	
BT_ION	Butyl Tin Ion	0.019	0.028	

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	78.3%
Tripentyl Tin Chloride	70.8%

Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081014.b/nt88a.d
Lab Smp Id: NT88A Client Smp ID: EB-SE03-B-081008
Inj Date : 14-OCT-2008 12:57
Operator : VTS Inst ID: nt1.i
Smp Info : NT88A
Misc Info : 08-27343
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081014.b/pw3ul.m
Meth Date : 14-Oct-2008 09:57 van Quant Type: ISTD
Cal Date : 08-OCT-2008 16:34 Cal File: ic1008f.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	0.50000	Final Extract Volume (mL)
Vo	44.00000	Volume Extracted (L)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	FINAL (ug/L)
$ 1 Tripropyl Tin (Hexyl)	291	7.606	7.610	(0.824)	10791	23.0375	0.2618
2 Tetrabutyl Tin	289	Compound Not Detected.					
3 Tributyl Tin (Hexyl)	319	8.585	8.584	(0.930)	10354	26.4546	0.3006
* 4 Tetrapentyl Tin	333	9.236	9.235	(1.000)	122139	200.000	
5 Dibutyl Tin (Hexyl)	347	9.276	9.276	(0.915)	1376	5.49983	0.06250
$ 6 Tripentyl Tin (Hexyl)	347	9.569	9.569	(0.944)	7658	20.1107	0.2285
7 Butyl Tin (Hexyl)	347	9.906	9.906	(0.977)	2585	6.06477	0.06892
* 8 p-Terphenyl-d14	244	10.135	10.136	(1.000)	122818	20.0000	

LDS
10.14.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: nt88a.d
Lab Smp Id: NT88A
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081014.b/pw3ul.m
Misc Info: 08-27343

Calibration Date: 14-OCT-2008
Calibration Time: 09:26
Client Smp ID: EB-SE03-B-081008
Level: LOW
Sample Type: Pore Water

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	127356	63678	254712	122139	-4.10
8 p-Terphenyl-d14	125778	62889	251556	122818	-2.35

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.24	8.74	9.74	9.24	0.00
8 p-Terphenyl-d14	10.14	9.64	10.64	10.14	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: LIQUID
Lab Smp Id: NT88A
Level: LOW
Data Type: MS DATA
SpikeList File: PW.spk
Sublist File: PW.sub
Method File: /chem3/nt1.i/20081014.b/pw3ul.m
Misc Info: 08-27343

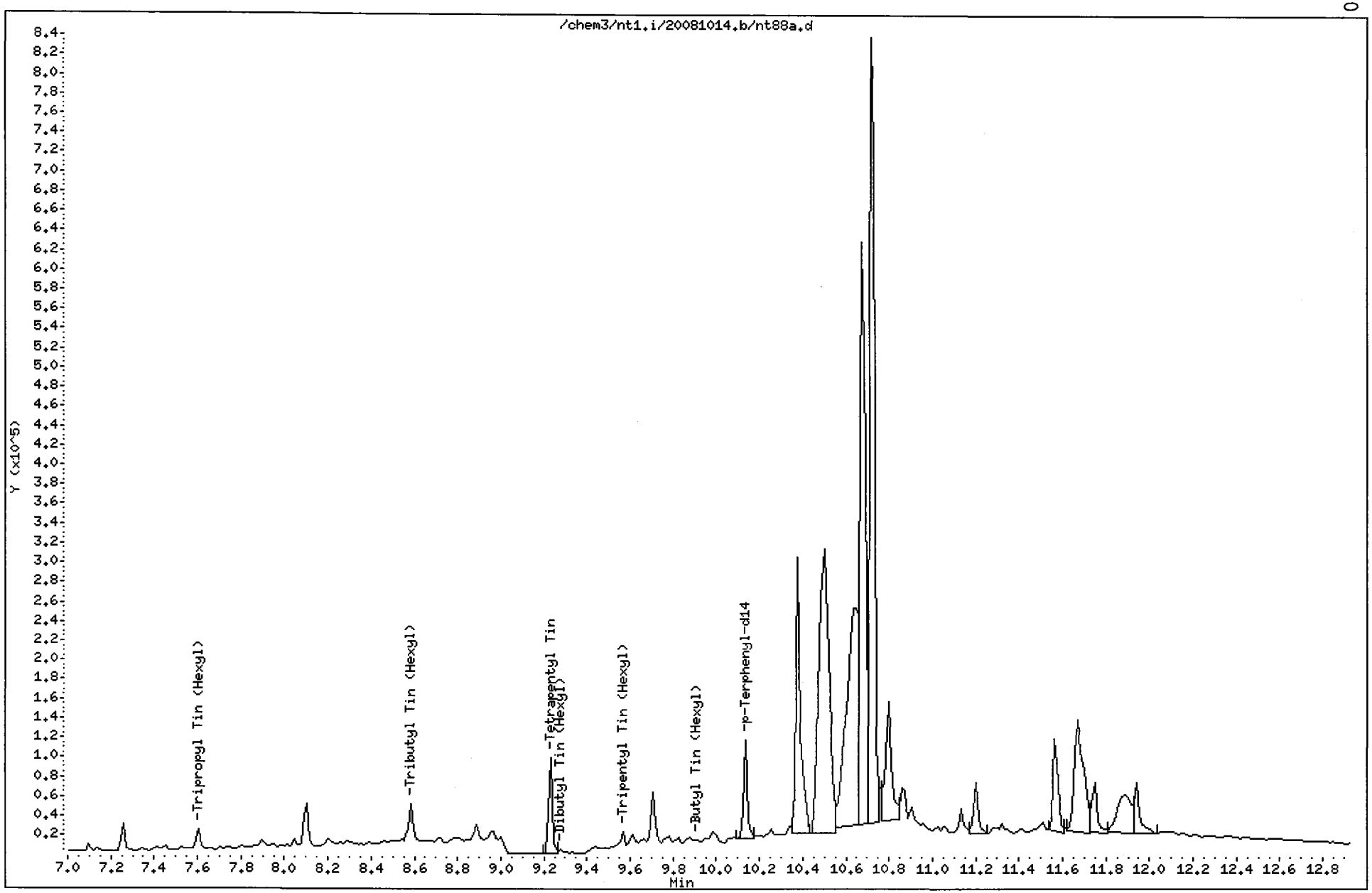
Client SDG: NT88
Fraction: SV
Client Smp ID: EB-SE03-B-081008
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 1 Tripropyl Tin (Hex	0.2841	0.2618	92.15	30-108
$ 6 Tripentyl Tin (Hex	0.2841	0.2285	80.44	23-97

Data File: /chem3/nt1.i/20081014.b/nt88a.d
Date : 14-OCT-2008 12:57
Client ID: EB-SE03-B-081008
Sample Info: NT88A
Purge Volume: 44.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

0031



Data File: /chem3/nt1.i/20081014.b/nt88a.d

Date : 14-OCT-2008 12:57

Client ID: EB-SE03-B-081008

Instrument: nt1.i

Sample Info: NT88A

Purge Volume: 44.0

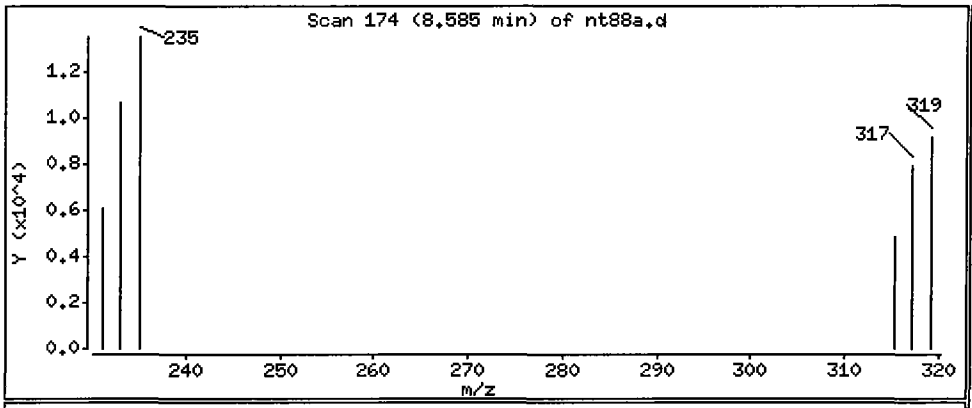
Operator: VTS

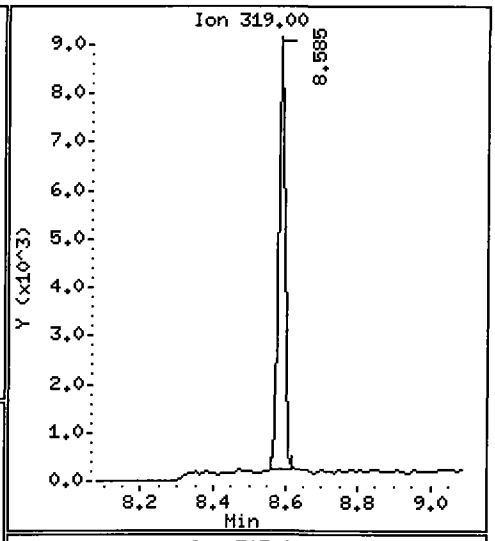
Column phase: ZB-5

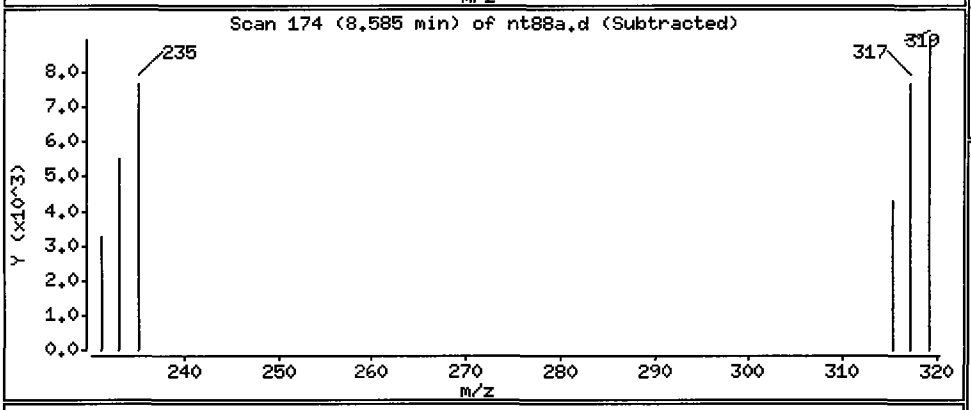
Column diameter: 0.25

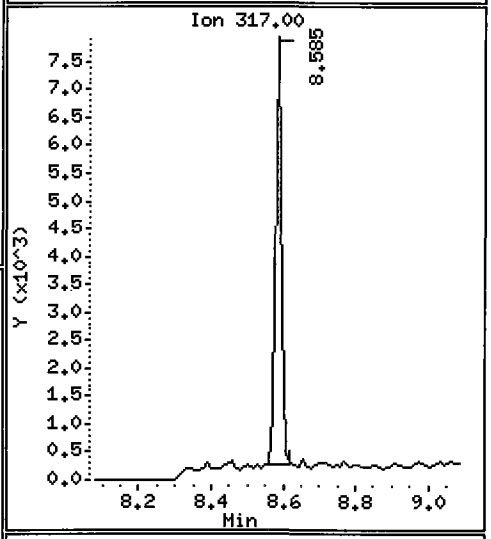
3 Tributyl Tin (Hexyl)

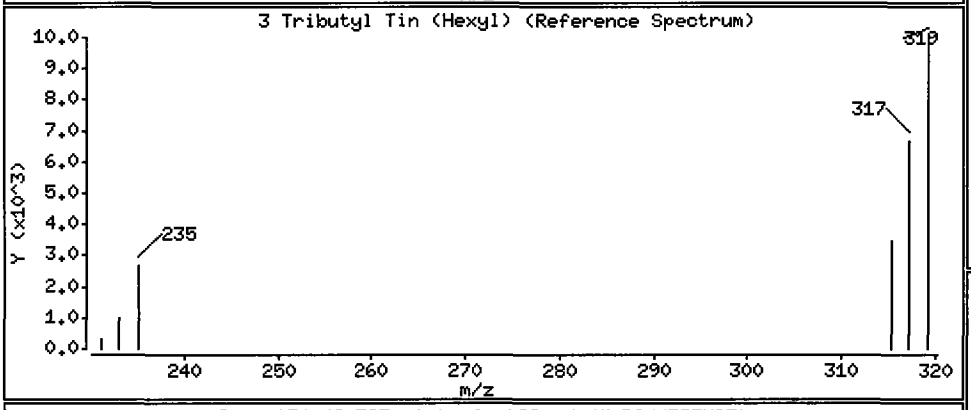
Concentration: 0.3006 ug/L

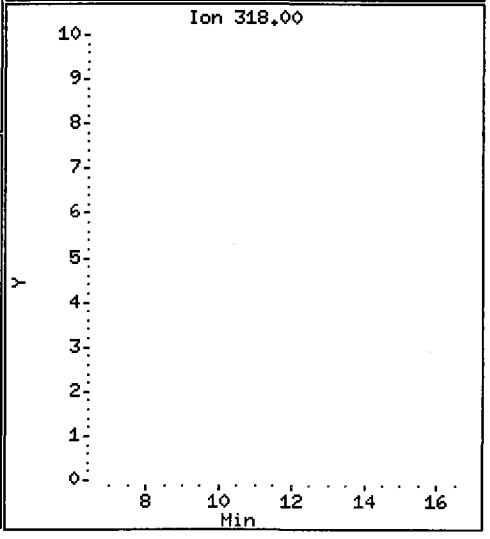


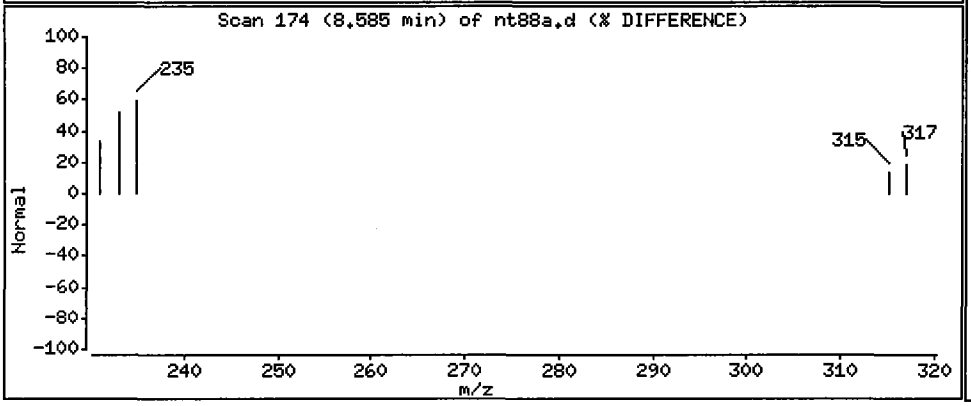












Data File: /chem3/nt1.i/20081014.b/nt88a.d

Date : 14-OCT-2008 12:57

Client ID: EB-SE03-B-081008

Instrument: nt1.i

Sample Info: NT88A

Purge Volume: 44.0

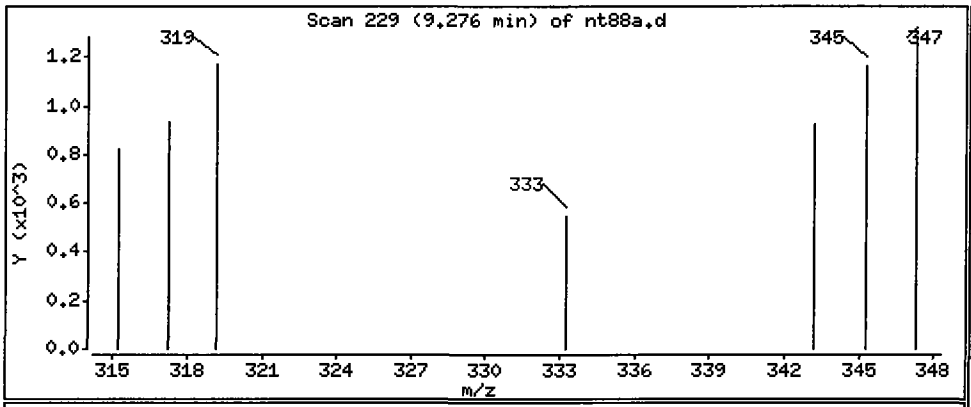
Operator: VTS

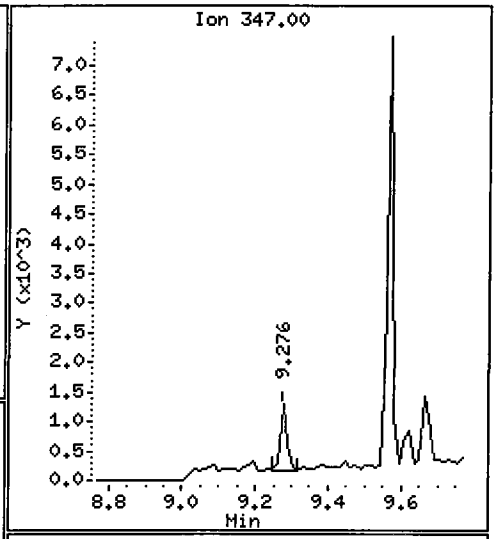
Column phase: ZB-5

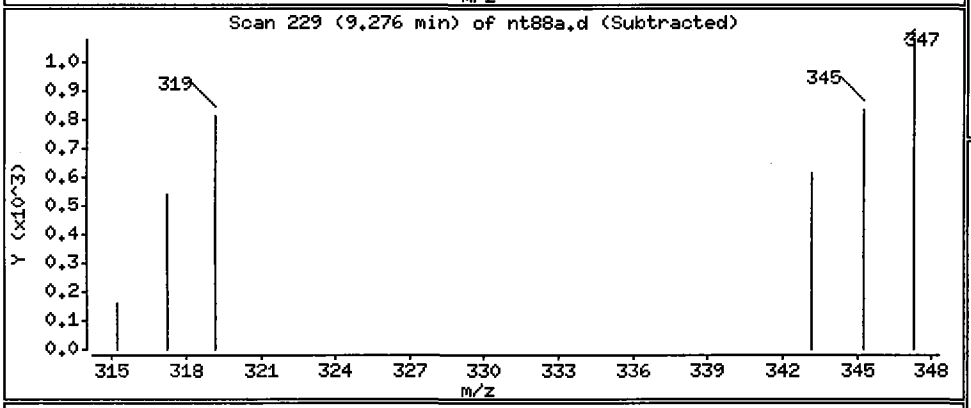
Column diameter: 0.25

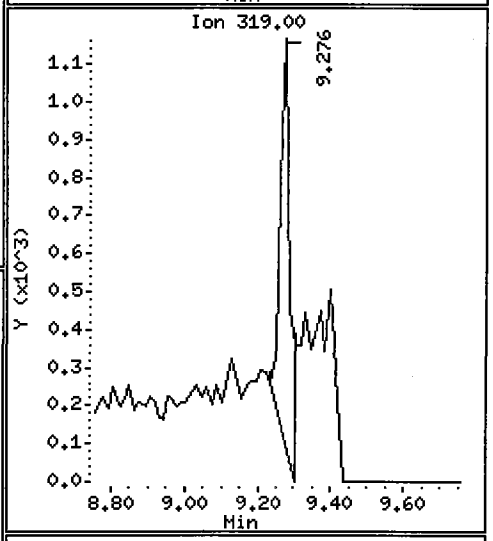
5 Dibutyl Tin (Hexyl)

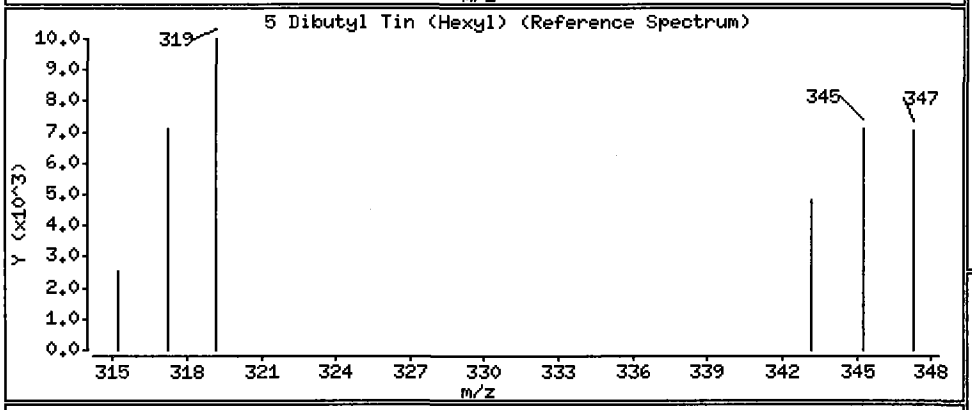
Concentration: 0.06250 ug/L

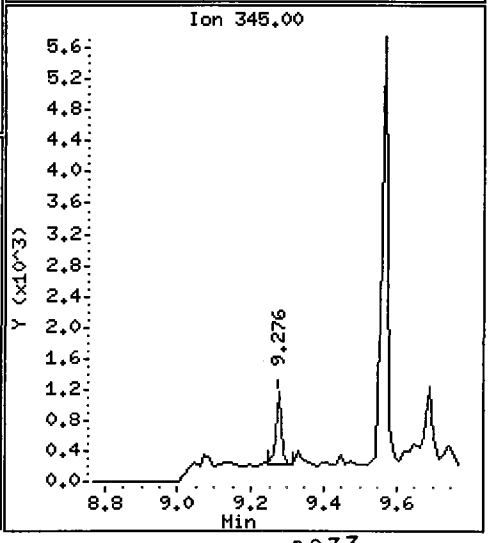


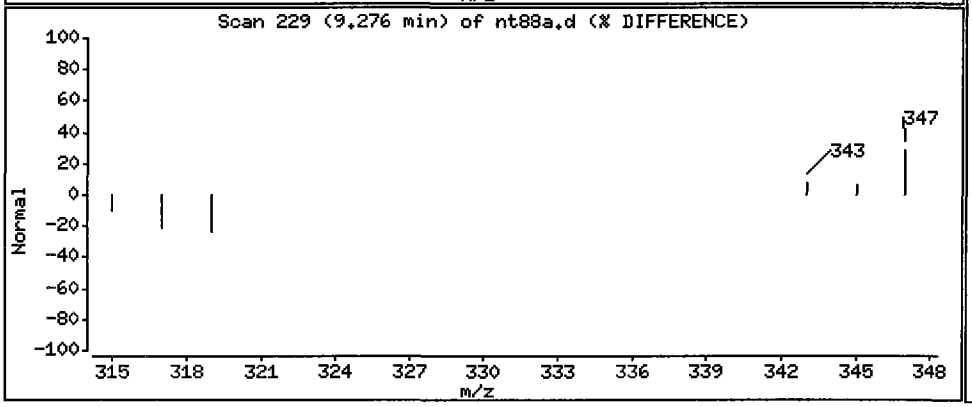












Data File: /chem3/nt1.i/20081014.b/nt88a.d

Date : 14-OCT-2008 12:57

Client ID: EB-SE03-B-081008

Instrument: nt1.i

Sample Info: NT88A

Purge Volume: 44.0

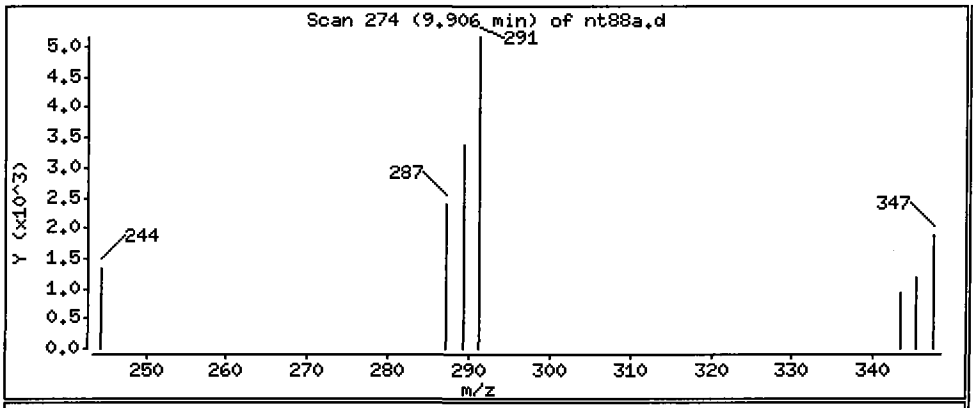
Operator: VTS

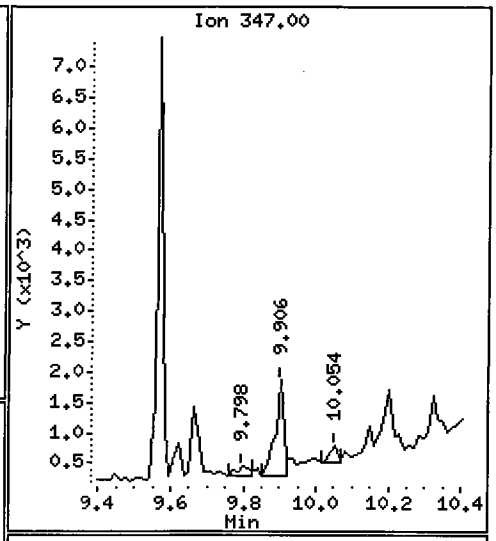
Column phase: ZB-5

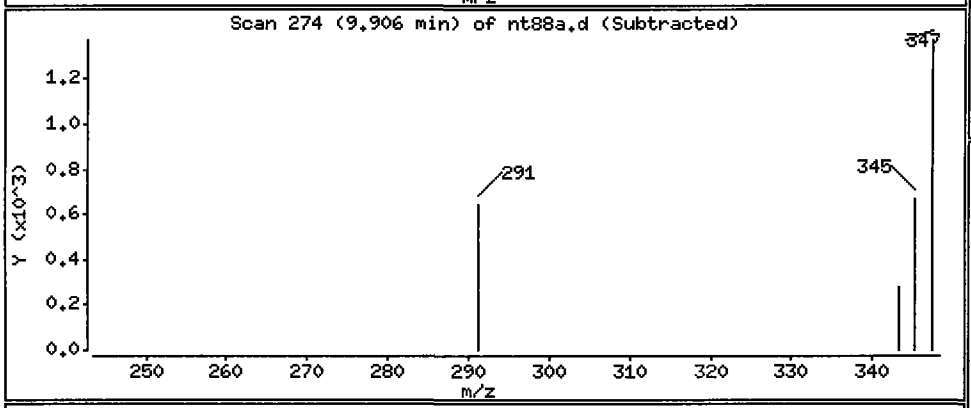
Column diameter: 0.25

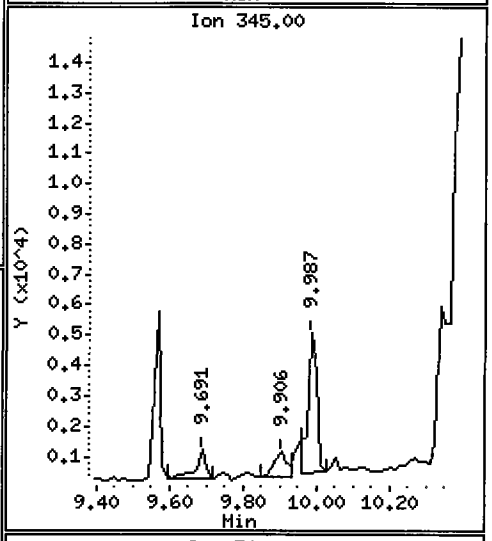
7 Butyl Tin (Hexyl)

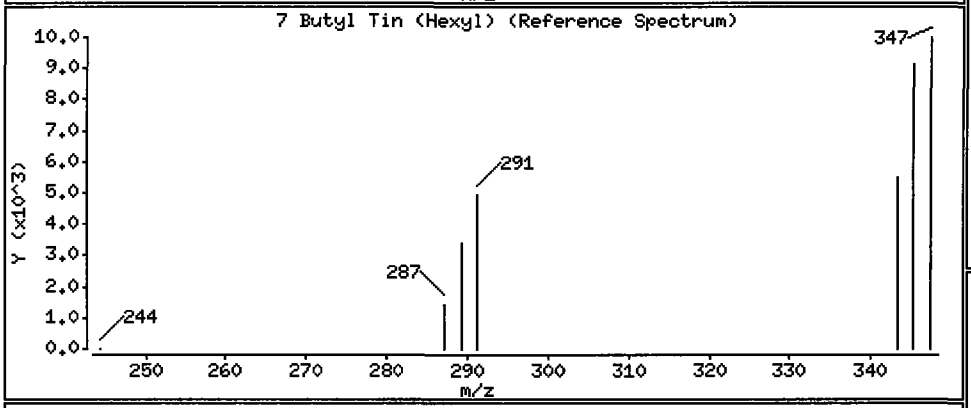
Concentration: 0.06892 ug/L

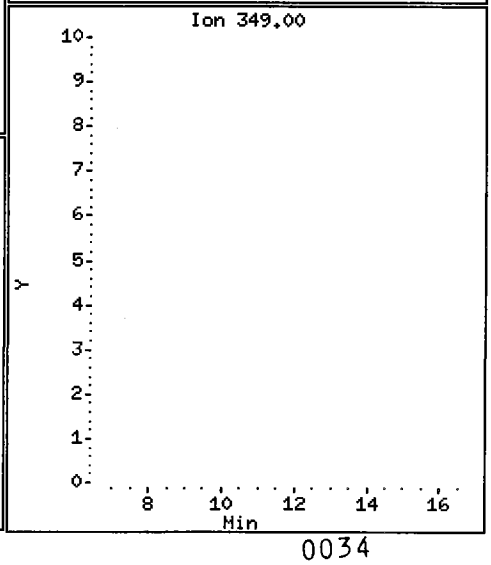


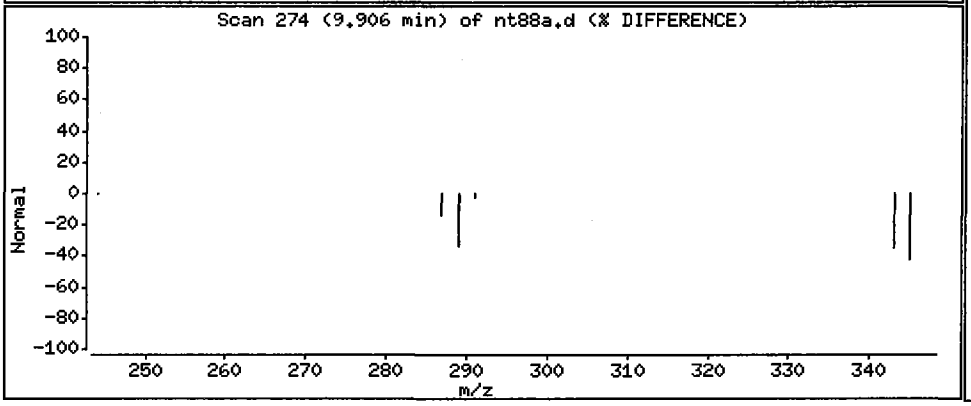












TBT Analysis
Standard Raw Data

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NT88

Prepared
By

Analytical Resources, Inc.

6B

SEMIVOLATILE 8270-C INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NT88 Project: EDDON BOATYARD

Instrument ID: NT1 Calibration Date: 10/08/08

LAB FILE ID: RRF2 =IC1008C RRF5 =IC1008E RRF10 =IC1008F
RRF25 =IC1008A RRF50 =IC1008D RRF100=IC1008B

COMPOUND	RRF 2	RRF 5	RRF 10	RRF 25	RRF 50	RRF 100	___ RRF	%RSD /R^2
Tributyl Tin (Hexyl)	0.790	0.564	0.606	0.601	0.646	0.640	0.641	12.3
Dibutyl Tin (Hexyl)	0.040	0.039	0.034	0.043	0.042	0.046	0.041	9.8
Butyl Tin (Hexyl)	0.067	0.064	0.066	0.075	0.070	0.075	0.070	6.9
Tetrabutyl Tin	0.885	0.663	0.751	0.707	0.752	0.729	0.748	10.0
Tripropyl Tin (Hexyl)	0.718	0.711	0.799	0.767	0.831	0.775	0.767	6.0
Tripentyl Tin (Hexyl)	0.053	0.060	0.061	0.064	0.065	0.068	0.062	8.6

* Compounds with maximum %RSD = 30%
~ Compounds with minimum average RRF = .05
<- Outside QC limits

FORM VI SV-1

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 08-OCT-2008 14:49
End Cal Date : 08-OCT-2008 16:34
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt1.i/20081008.b/pw3ul.m
Cal Date : 09-Oct-2008 07:43 van
Curve Type : Average

Calibration File Names:
Level 1: /chem3/nt1.i/20081008.b/ic1008c.d
Level 2: /chem3/nt1.i/20081008.b/ic1008e.d
Level 3: /chem3/nt1.i/20081008.b/ic1008f.d
Level 4: /chem3/nt1.i/20081008.b/ic1008a.d
Level 5: /chem3/nt1.i/20081008.b/ic1008d.d
Level 6: /chem3/nt1.i/20081008.b/ic1008b.d

Compound	2.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
2 Tetrabutyl Tin	0.88500	0.66327	0.75073	0.70747	0.75157	0.72929	0.74789	9.999
3 Tributyl Tin (Hexyl)	0.78997	0.56357	0.60589	0.60074	0.64555	0.63960	0.64089	12.299
5 Dibutyl Tin (Hexyl)	0.03999	0.03923	0.03401	0.04308	0.04258	0.04556	0.04074	9.828
7 Butyl Tin (Hexyl)	0.06695	0.06377	0.06598	0.07510	0.06965	0.07500	0.06941	6.859
$ 1 Tripropyl Tin (Hexyl)	0.71859	0.71112	0.79911	0.76742	0.83110	0.77475	0.76701	6.022
$ 6 Tripentyl Tin (Hexyl)	0.05303	0.06035	0.06062	0.06455	0.06509	0.06841	0.06201	8.601

Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ic1008a.d
Lab Smp Id: IC1008A
Inj Date : 08-OCT-2008 14:49
Operator : VTS Inst ID: nt1.i
Smp Info : IC1008A
Misc Info :
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 07:44 van Quant Type: ISTD
Cal Date : 08-OCT-2008 14:49 Cal File: ic1008a.d
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.617	7.617	(0.824)	21290	25.0000	25.00
	2 Tetrabutyl Tin	289	7.837	7.837	(0.847)	19627	25.0000	25.00
	3 Tributyl Tin (Hexyl)	319	8.607	8.607	(0.931)	16666	25.0000	25.00
*	4 Tetrapentyl Tin	333	9.248	9.248	(1.000)	221939	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.289	9.289	(0.915)	23580	50.0000	50.00
$	6 Tripentyl Tin (Hexyl)	347	9.583	9.583	(0.944)	35329	50.0000	50.00
	7 Butyl Tin (Hexyl)	347	9.920	9.920	(0.977)	41102	50.0000	50.00
*	8 p-Terphenyl-d14	244	10.149	10.149	(1.000)	218922	20.0000	

VTS
10.9.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic1008a.d
Lab Smp Id: IC1008A
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info:

Calibration Date: 08-OCT-2008
Calibration Time: 14:49

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	221939	0.00
8 p-Terphenyl-d14	218922	109461	437844	218922	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	0.00
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

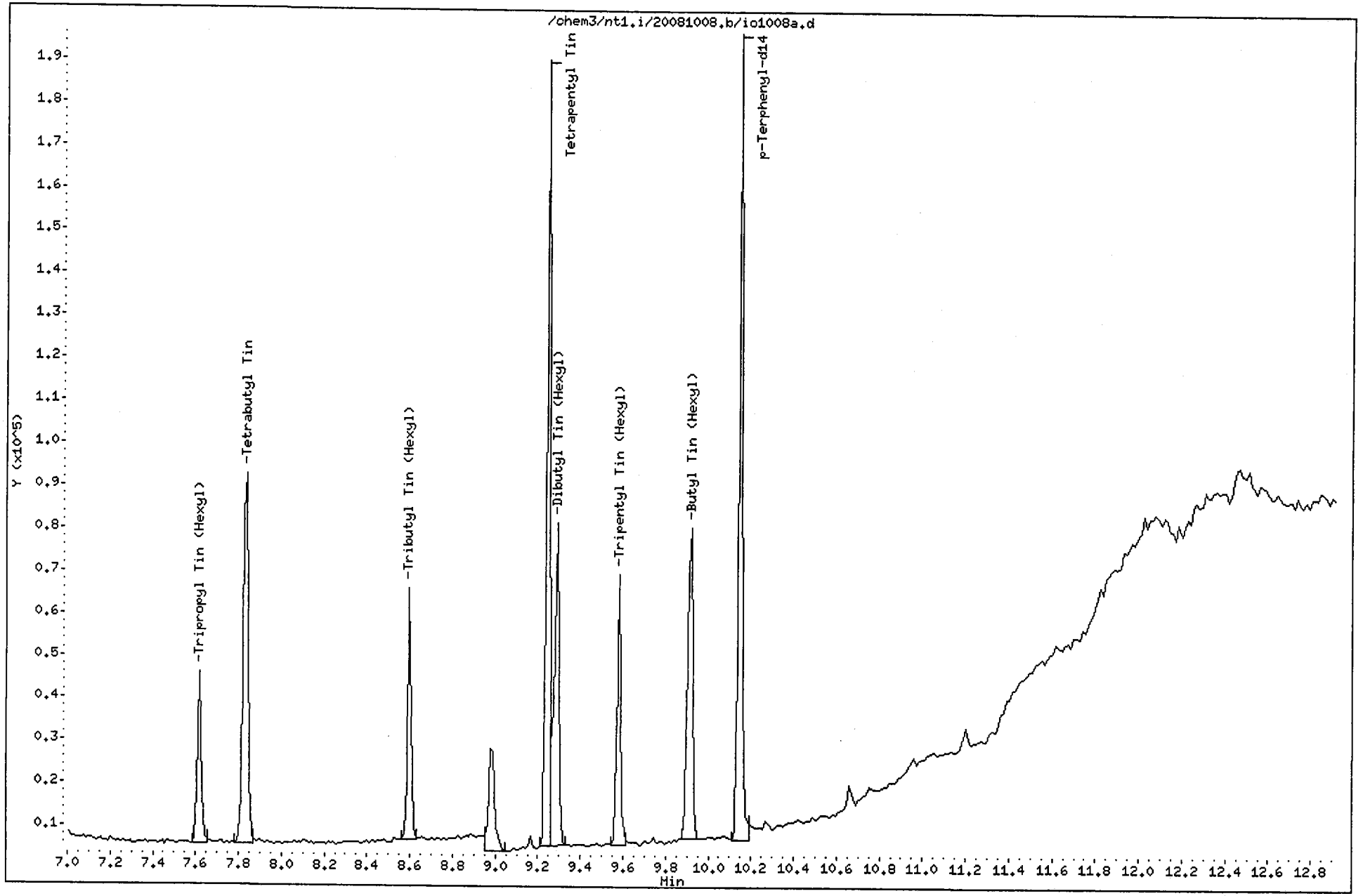
Data File: /chem3/nt1.i/20081008.b/ic1008a.d
Date : 08-OCT-2008 14:49
Client ID:
Sample Info: IC1008A

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5

0040



Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ic1008b.d
Lab Smp Id: IC1008B
Inj Date : 08-OCT-2008 15:15
Operator : VTS Inst ID: nt1.i
Smp Info : IC1008B
Misc Info : PW100
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 07:44 van Quant Type: ISTD
Cal Date : 08-OCT-2008 15:15 Cal File: ic1008b.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.618	7.617	(0.824)	84767	100.000	100.5
	2 Tetrabutyl Tin	289	7.838	7.837	(0.847)	79793	100.000	101.5
	3 Tributyl Tin (Hexyl)	319	8.608	8.607	(0.931)	69980	100.000	103.1
*	4 Tetrapentyl Tin	333	9.249	9.248	(1.000)	218823	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.289	9.289	(0.915)	93191	200.000	205.6
$	6 Tripentyl Tin (Hexyl)	347	9.583	9.583	(0.944)	139943	200.000	205.8
	7 Butyl Tin (Hexyl)	347	9.920	9.920	(0.977)	153425	200.000	199.9
*	8 p-Terphenyl-d14	244	10.149	10.149	(1.000)	204558	20.0000	

VTS
10.9.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic1008b.d
Lab Smp Id: IC1008B
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: PW100

Calibration Date: 08-OCT-2008
Calibration Time: 14:49

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	218823	-1.40
8 p-Terphenyl-d14	218922	109461	437844	204558	-6.56

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	0.01
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

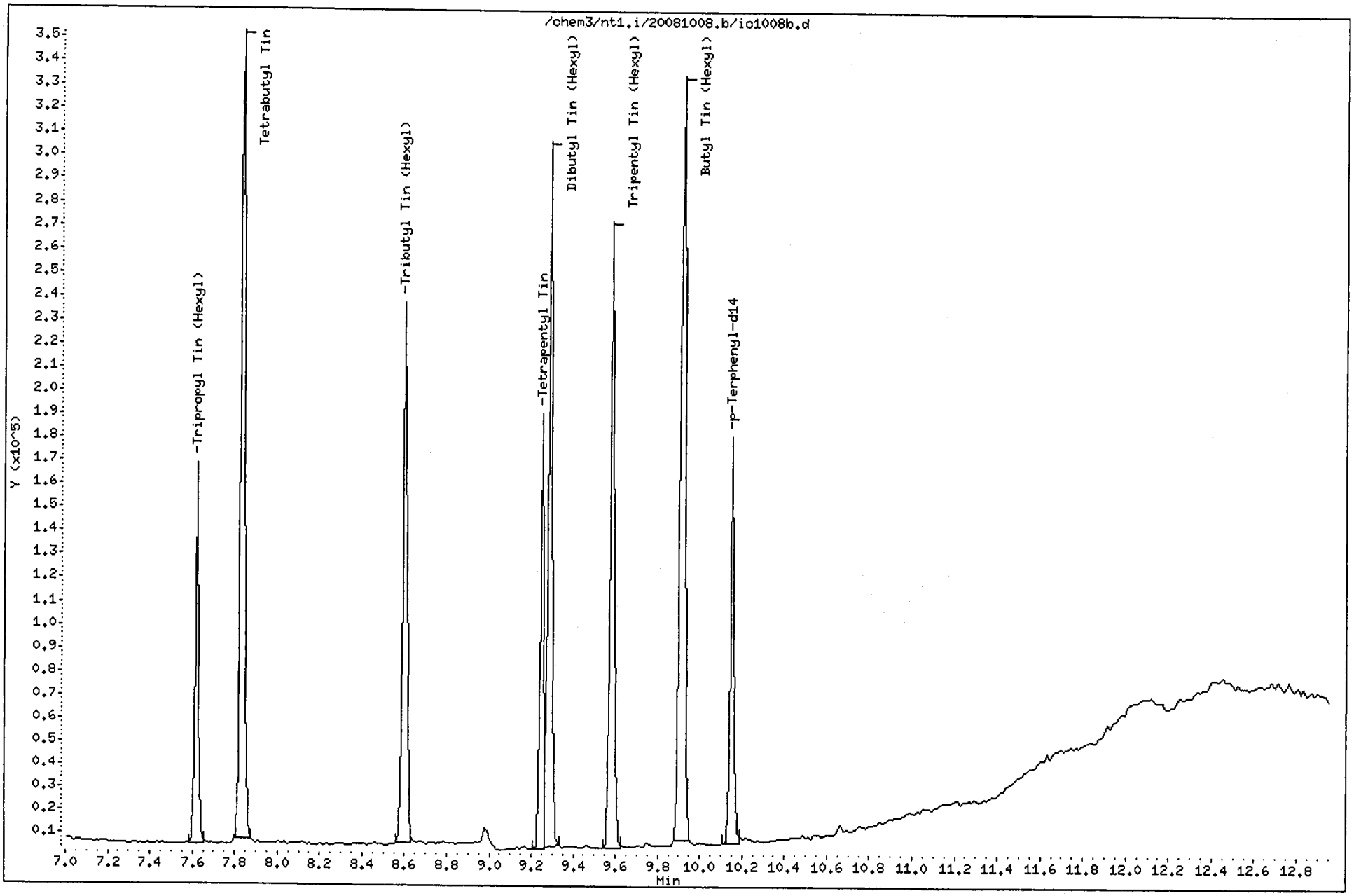
Data File: /chem3/nt1.i/20081008.b/ic1008b.d
Date : 08-OCT-2008 15:15
Client ID:
Sample Info: IC1008B

Column phase: ZB-5

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

0043



Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ic1008c.d
Lab Smp Id: IC1008C
Inj Date : 08-OCT-2008 15:35
Operator : VTS Inst ID: nt1.i
Smp Info : IC1008C
Misc Info : PW2
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 07:44 van Quant Type: ISTD
Cal Date : 08-OCT-2008 15:35 Cal File: ic1008c.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.620	7.617	(0.824)	1520	2.00000	1.907
	2 Tetrabutyl Tin	289	7.840	7.837	(0.848)	1872	2.00000	2.287
	3 Tributyl Tin (Hexyl)	319	8.607	8.607	(0.931)	1671	2.00000	2.335
*	4 Tetrapentyl Tin	333	9.248	9.248	(1.000)	211526	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.289	9.289	(0.915)	1695	4.00000	3.731
$	6 Tripentyl Tin (Hexyl)	347	9.582	9.583	(0.944)	2248	4.00000	3.422
	7 Butyl Tin (Hexyl)	347	9.919	9.920	(0.977)	2838	4.00000	3.702
*	8 p-Terphenyl-d14	244	10.148	10.149	(1.000)	211940	20.0000	

10-9-2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic1008c.d
Lab Smp Id: IC1008C
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: PW2

Calibration Date: 08-OCT-2008
Calibration Time: 14:49

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	211526	-4.69
8 p-Terphenyl-d14	218922	109461	437844	211940	-3.19

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	0.00
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

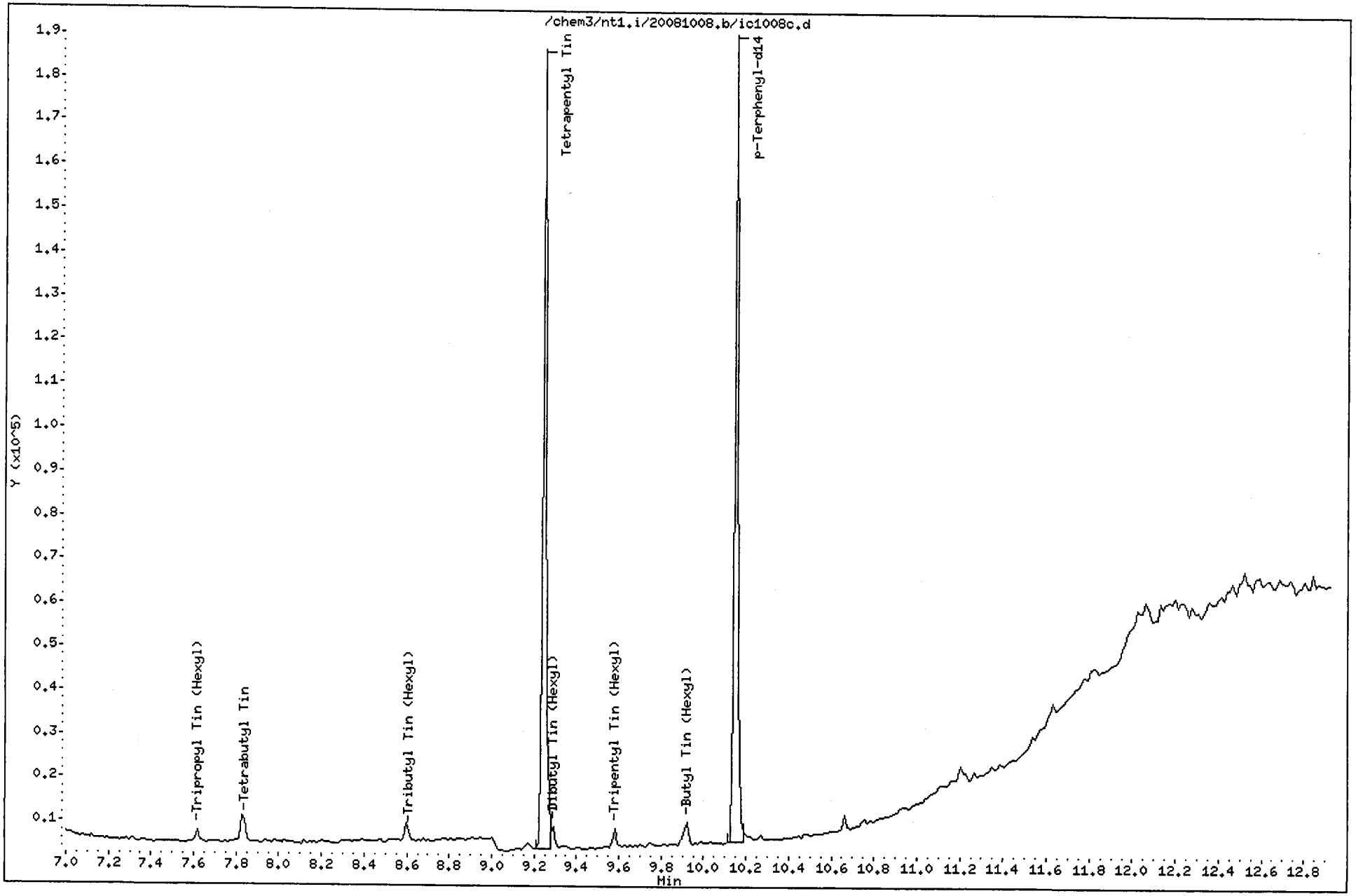
Data File: /chem3/nt1.i/20081008.b/ic1008c.d
Date : 08-OCT-2008 15:35
Client ID:
Sample Info: IC1008C

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5

0046



Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ic1008d.d
Lab Smp Id: IC1008D
Inj Date : 08-OCT-2008 15:55
Operator : VTS Inst ID: nt1.i
Smp Info : IC1008D
Misc Info : PW50
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 07:44 van Quant Type: ISTD
Cal Date : 08-OCT-2008 15:55 Cal File: ic1008d.d
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.617	7.617	(0.824)	40591	50.0000	53.76
	2 Tetrabutyl Tin	289	7.837	7.837	(0.847)	36707	50.0000	48.91
	3 Tributyl Tin (Hexyl)	319	8.608	8.607	(0.931)	31529	50.0000	48.25
*	4 Tetrapentyl Tin	333	9.248	9.248	(1.000)	195361	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.288	9.289	(0.915)	41073	100.000	99.47
$	6 Tripentyl Tin (Hexyl)	347	9.582	9.583	(0.944)	62797	100.000	103.7
	7 Butyl Tin (Hexyl)	347	9.919	9.920	(0.977)	67191	100.000	97.17
*	8 p-Terphenyl-d14	244	10.148	10.149	(1.000)	192944	20.0000	

VTS
10.9.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic1008d.d
Lab Smp Id: IC1008D
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: PW50

Calibration Date: 08-OCT-2008
Calibration Time: 14:49

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	195361	-11.98
8 p-Terphenyl-d14	218922	109461	437844	192944	-11.87

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	-0.01
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

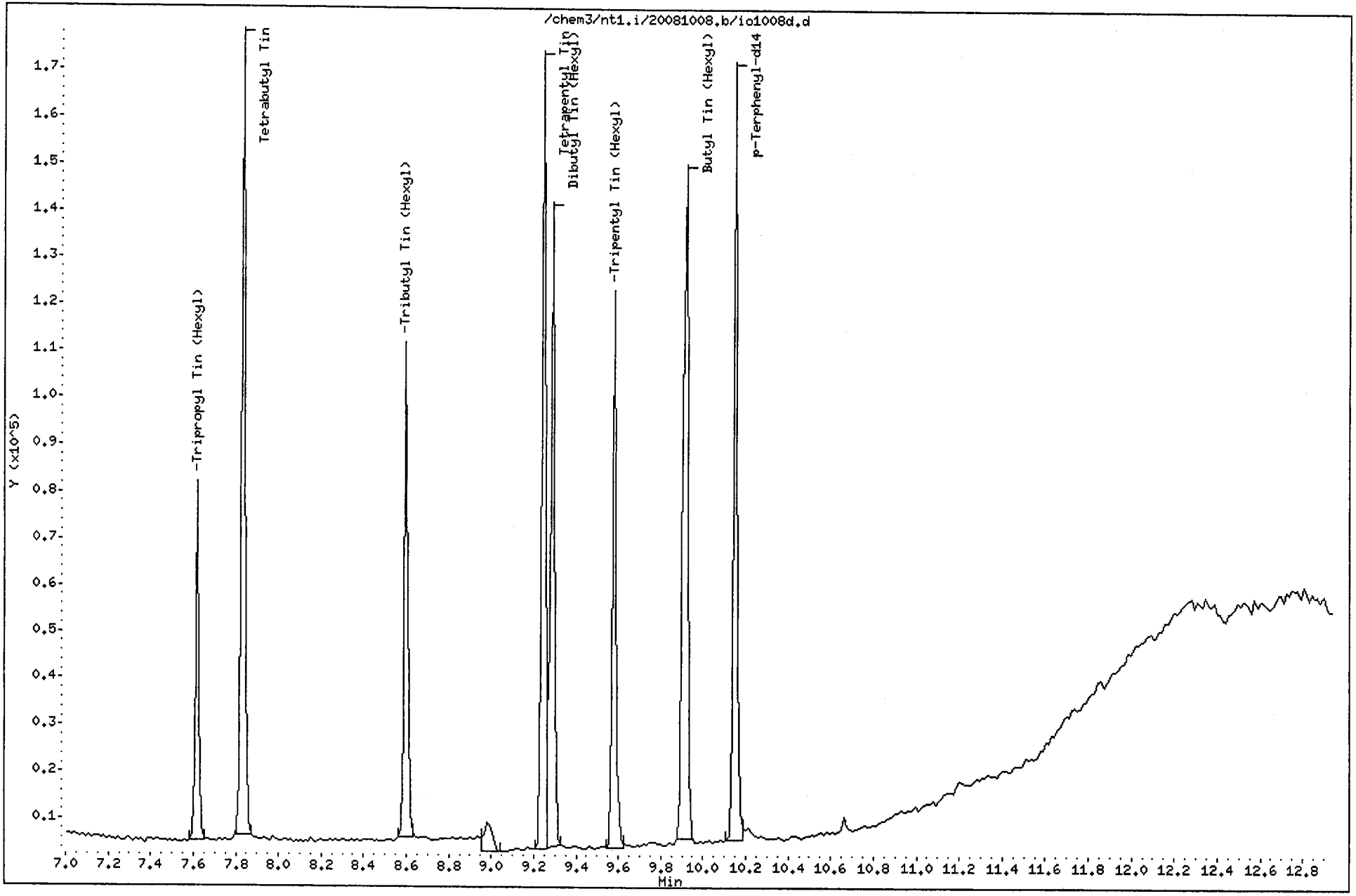
Data File: /chem3/nt1.i/20081008.b/ic1008d.d
Date : 08-OCT-2008 15:55
Client ID:
Sample Info: IC1008D

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5

0049



Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ic1008e.d
Lab Smp Id: IC1008E
Inj Date : 08-OCT-2008 16:14
Operator : VTS Inst ID: nt1.i
Smp Info : IC1008E
Misc Info : PW5
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 07:44 van Quant Type: ISTD
Cal Date : 08-OCT-2008 16:14 Cal File: ic1008e.d
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.618	7.617	(0.824)	4622	5.00000	4.675
	2 Tetrabutyl Tin	289	7.838	7.837	(0.847)	4311	5.00000	4.438
	3 Tributyl Tin (Hexyl)	319	8.608	8.607	(0.931)	3663	5.00000	4.349
*	4 Tetrapentyl Tin	333	9.249	9.248	(1.000)	259986	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.289	9.289	(0.915)	5015	10.0000	9.322
$	6 Tripentyl Tin (Hexyl)	347	9.583	9.583	(0.944)	7714	10.0000	9.688
	7 Butyl Tin (Hexyl)	347	9.920	9.920	(0.977)	8152	10.0000	9.098
*	8 p-Terphenyl-d14	244	10.149	10.149	(1.000)	255658	20.0000	

VTS
10.9.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic1008e.d
Lab Smp Id: IC1008E
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: PW5

Calibration Date: 08-OCT-2008
Calibration Time: 14:49

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	259986	17.14
8 p-Terphenyl-d14	218922	109461	437844	255658	16.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	0.00
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

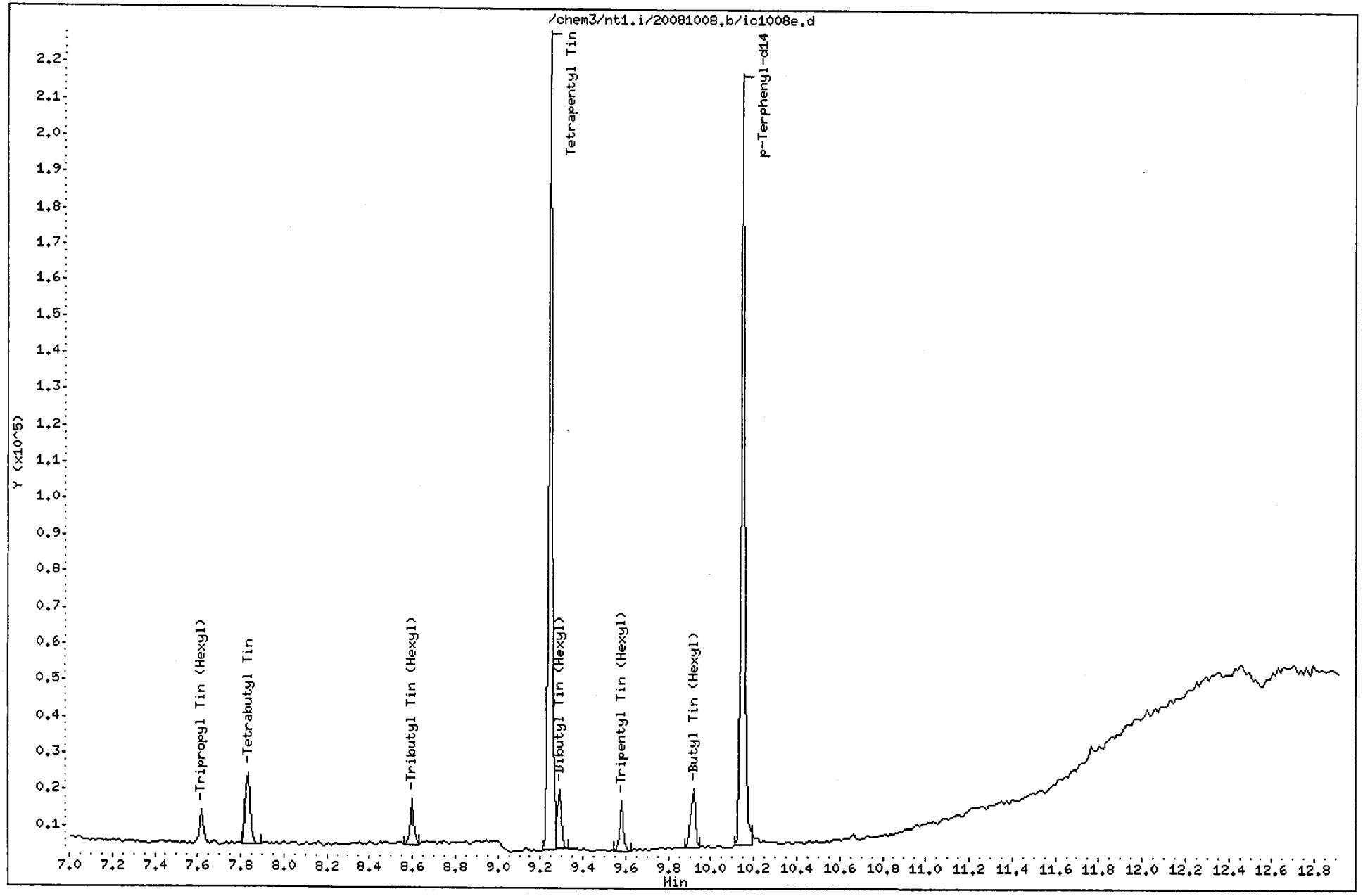
Data File: /chem3/nt1.i/20081008.b/ic1008e.d
Date : 08-OCT-2008 16:14
Client ID:
Sample Info: IC1008E

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5

0052



Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ic1008f.d
Lab Smp Id: IC1008F
Inj Date : 08-OCT-2008 16:34
Operator : VTS Inst ID: nt1.i
Smp Info : IC1008F
Misc Info : PW10
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 07:44 van Quant Type: ISTD
Cal Date : 08-OCT-2008 16:34 Cal File: ic1008f.d
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.618	7.617	(0.824)	8342	10.0000	10.42
	2 Tetrabutyl Tin	289	7.838	7.837	(0.847)	7837	10.0000	10.04
	3 Tributyl Tin (Hexyl)	319	8.608	8.607	(0.931)	6325	10.0000	9.454
*	4 Tetrapentyl Tin	333	9.249	9.248	(1.000)	208783	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.289	9.289	(0.915)	7269	20.0000	16.70
$	6 Tripentyl Tin (Hexyl)	347	9.583	9.583	(0.944)	12955	20.0000	19.55
	7 Butyl Tin (Hexyl)	347	9.920	9.920	(0.977)	14100	20.0000	19.01
*	8 p-Terphenyl-d14	244	10.149	10.149	(1.000)	213713	20.0000	

VTS
10.9.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic1008f.d
Lab Smp Id: IC1008F
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: PW10

Calibration Date: 08-OCT-2008
Calibration Time: 14:49
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	208783	-5.93
8 p-Terphenyl-d14	218922	109461	437844	213713	-2.38

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	0.01
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

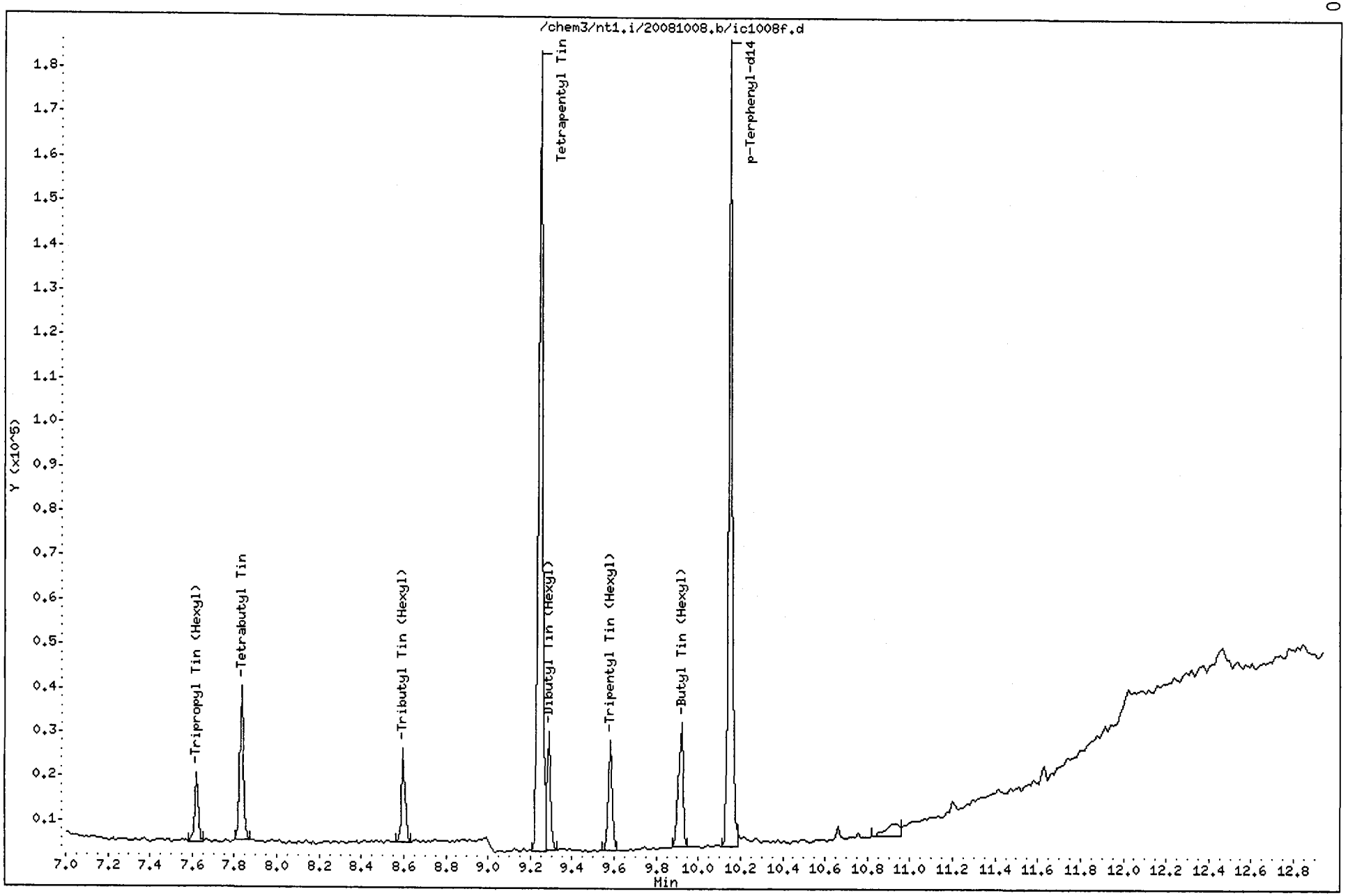
Data File: /chem3/nt1.i/20081008.b/ic1008f.d
Date : 08-OCT-2008 16:34
Client ID:
Sample Info: IC1008F

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

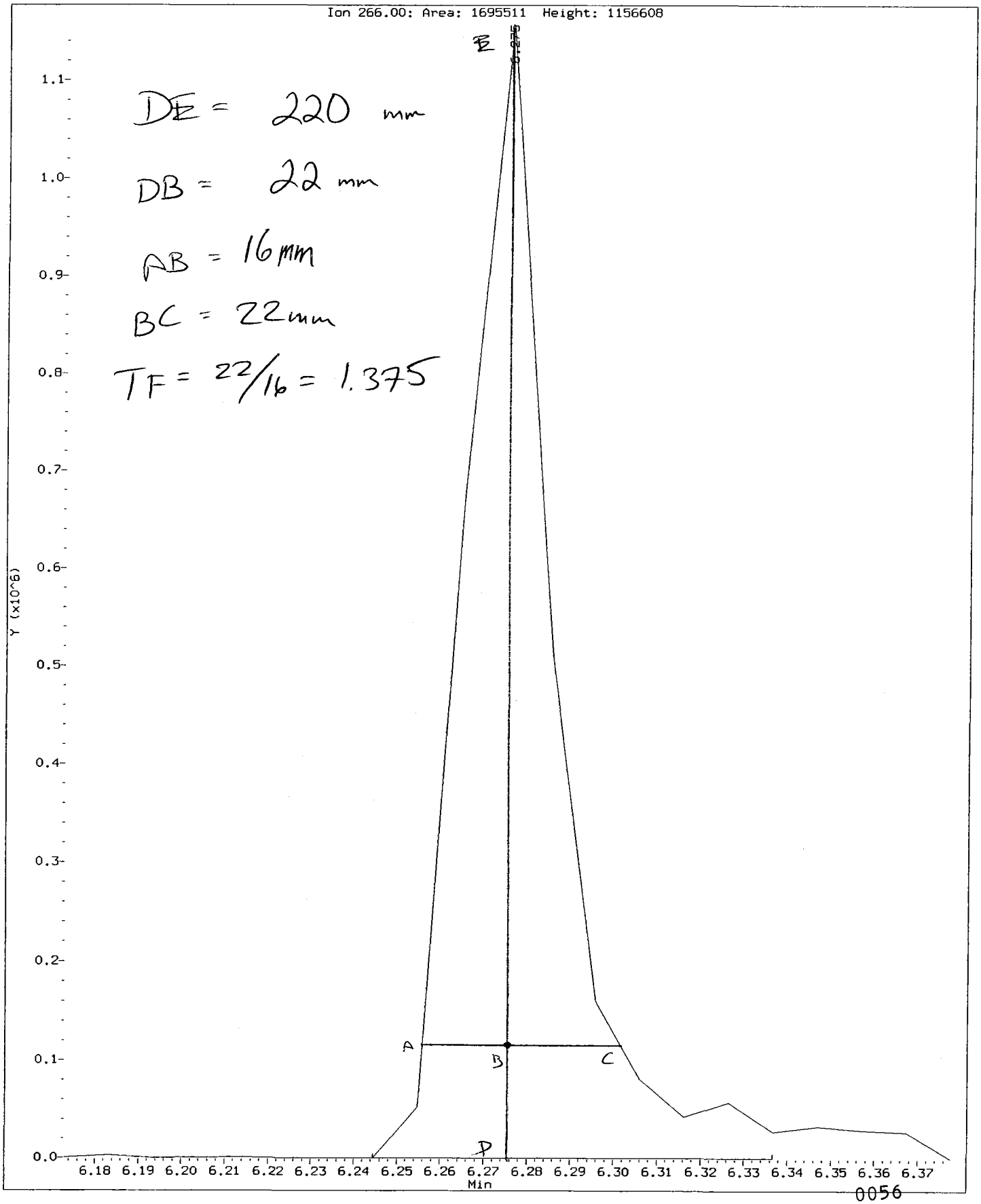
Column phase: ZB-5

0055



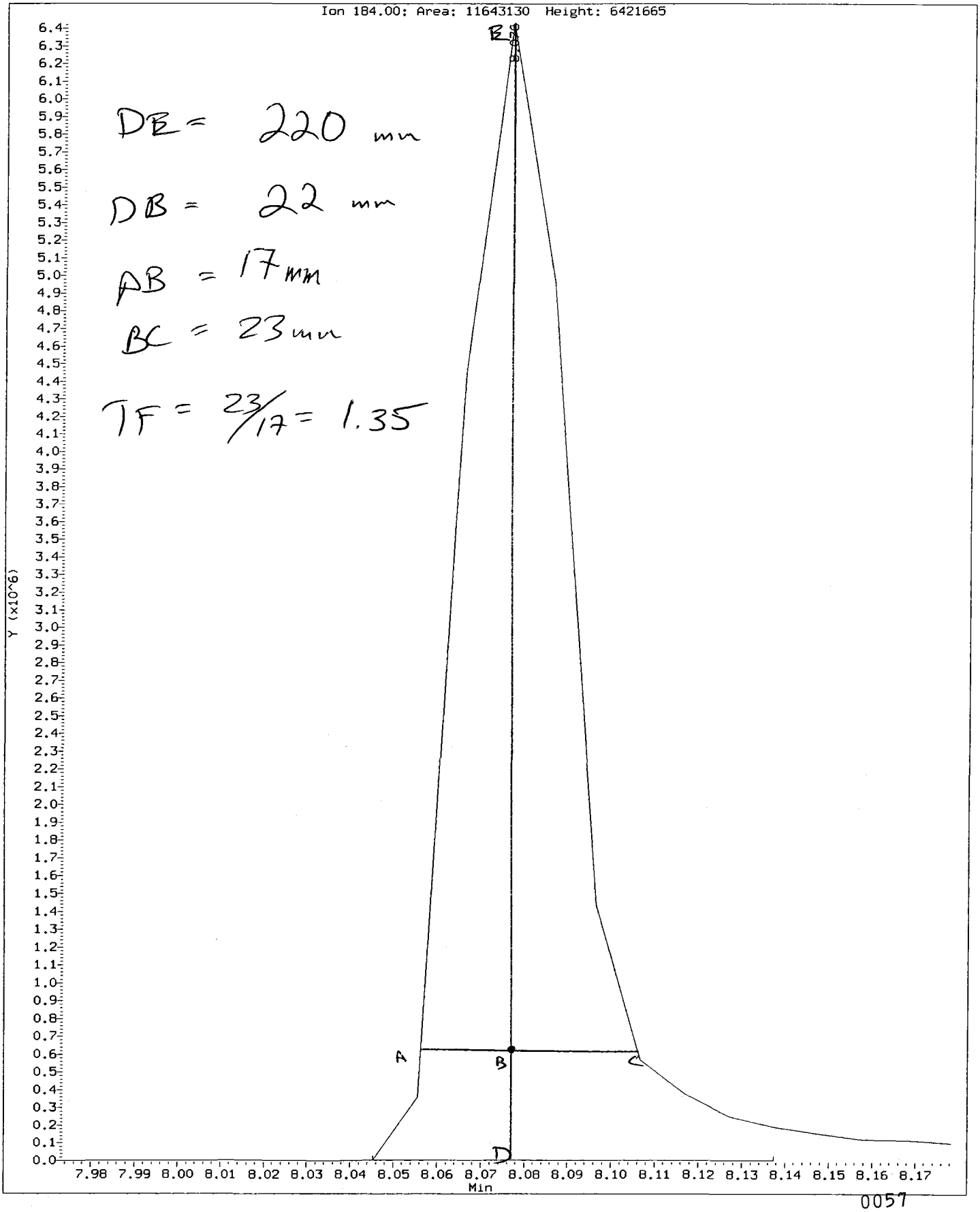
Data File: /chem3/nt1.i/20081008.b/ddt.b/df1008a.d
Injection Date: 08-OCT-2008 14:29
Instrument: nt1.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt1.i/20081008.b/ddt.b/df1008a.d
Injection Date: 08-OCT-2008 14:29
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt1.i/20081008.b/ddt.b/df1008a.d
Method: /chem3/nt1.i/20081008.b/ddt.b/sw846ddt.m
Analysis Date: 08-OCT-2008 14:29

ARI ID: DF1008
Misc:
Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	6.275	1695511
Benzidine	8.076	11643130
4,4'-DDE	8.362	15305
4,4'-DDD	8.772	227316
4,4'-DDT	9.130	4650520

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(\ 15305 + 227316) * 100}{(\ 15305 + 227316 + 4650520)}$$

DDT Percent Breakdown = 5.0 %

7B

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NT88 Project: EDDON BOATYARD

Instrument ID: NT1 Cont. Calib. Date: 10/14/08

Init. Calib. Date: 10/08/08 Cont. Calib. Time: 0926

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Tributyl Tin (Hexyl)	0.641	0.624	0.100	2.6	
Dibutyl Tin (Hexyl)	0.041	0.042	0.100	-2.4	
Butyl Tin (Hexyl)	0.070	0.064	0.100	8.6	
Tetrabutyl Tin	0.748	0.695	0.100	7.1	
Tripropyl Tin (Hexyl)	0.767	0.775	0.100	-1.0	
Tripentyl Tin (Hexyl)	0.062	0.058	0.100	6.4	

<- Outside QC limits

FORM VII SV-1

Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081014.b/cc1014.d
Lab Smp Id: CC1014
Inj Date : 14-OCT-2008 09:26
Operator : VTS Inst ID: nt1.i
Smp Info : CC1014
Misc Info :
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081014.b/pw3ul.m
Meth Date : 14-Oct-2008 09:57 van Quant Type: ISTD
Cal Date : 08-OCT-2008 16:34 Cal File: ic1008f.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.610	7.610	(0.824)	12337	25.0000	25.26
	2 Tetrabutyl Tin	289	7.818	7.818	(0.847)	11058	25.0000	23.22
	3 Tributyl Tin (Hexyl)	319	8.584	8.584	(0.930)	9926	25.0000	24.32
*	4 Tetrapentyl Tin	333	9.235	9.235	(1.000)	127356	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.276	9.276	(0.915)	13290	50.0000	51.87
$	6 Tripentyl Tin (Hexyl)	347	9.569	9.569	(0.944)	18409	50.0000	47.21
	7 Butyl Tin (Hexyl)	347	9.906	9.906	(0.977)	20086	50.0000	46.02
*	8 p-Terphenyl-d14	244	10.136	10.136	(1.000)	125778	20.0000	

VTS
10.14.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: cc1014.d
Lab Smp Id: CC1014
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081014.b/pw3ul.m
Misc Info:

Calibration Date: 14-OCT-2008
Calibration Time: 08:23
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	82824	41412	165648	127356	53.77
8 p-Terphenyl-d14	109063	54532	218126	125778	15.33

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.24	8.74	9.74	9.24	-0.01
8 p-Terphenyl-d14	10.14	9.64	10.64	10.14	-0.08

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt1.i Injection Date: 14-OCT-2008 09:26
Lab File ID: cc1014.d Init. Cal. Date(s): 08-OCT-2008 08-OCT-2008
Analysis Type: Init. Cal. Times: 14:49 16:34
Lab Sample ID: CC1014 Quant Type: ISTD
Method: /chem3/nt1.i/20081014.b/pw3ul.m

COMPOUND	RRF / AMOUNT	RF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tripropyl Tin (Hexyl)	0.76701	0.77497	0.005	-1.03677	20.00000	Averaged
2 Tetrabutyl Tin	0.74789	0.69463	0.010	7.12065	20.00000	Averaged
3 Tributyl Tin (Hexyl)	0.64089	0.62353	0.005	2.70850	20.00000	Averaged
5 Dibutyl Tin (Hexyl)	0.04074	0.04227	0.005	-3.73965	20.00000	Averaged
$ 6 Tripentyl Tin (Hexyl)	0.06201	0.05855	0.010	5.58598	20.00000	Averaged
7 Butyl Tin (Hexyl)	0.06941	0.06388	0.005	7.96726	20.00000	Averaged

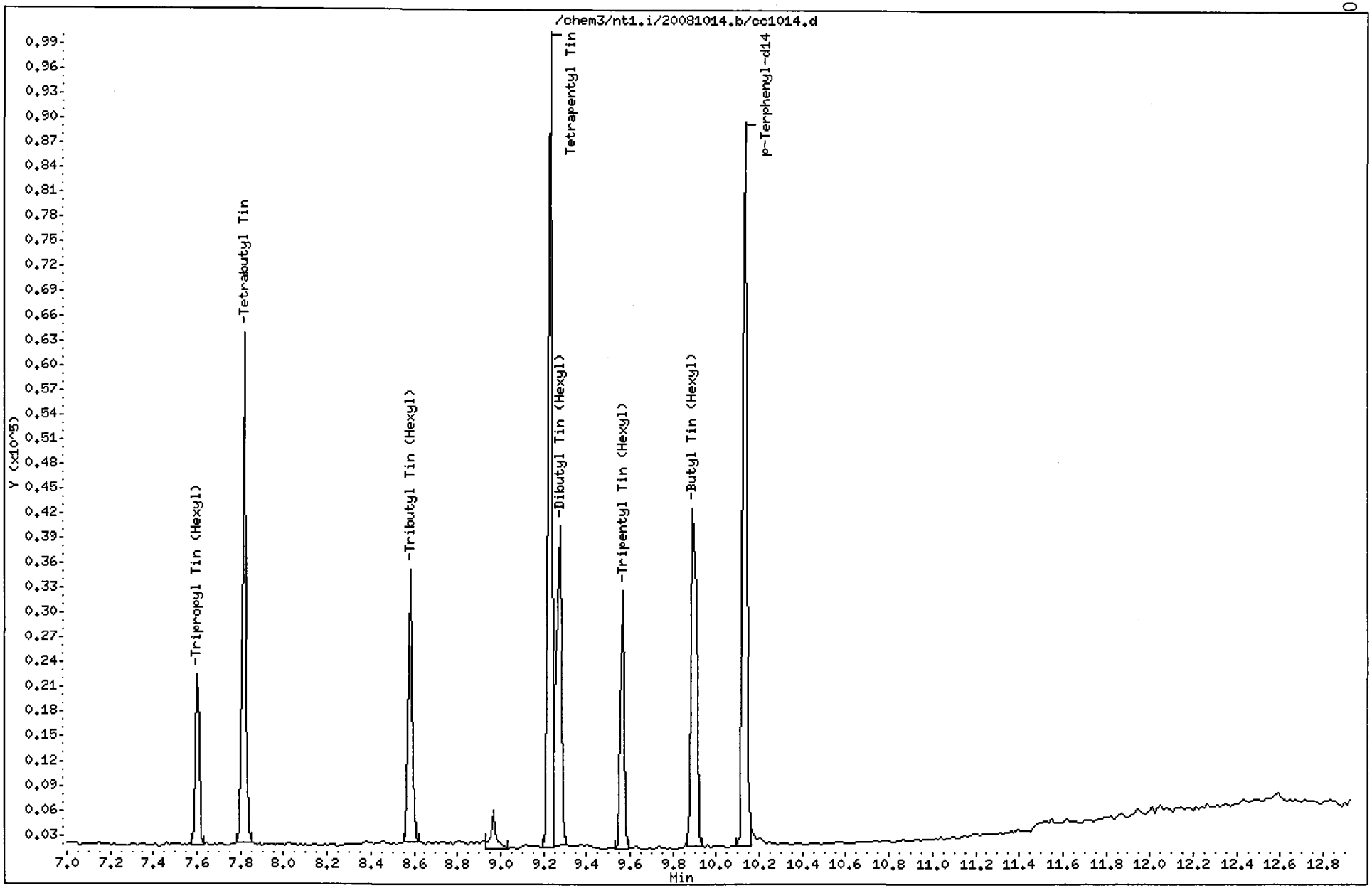
Data File: /chem3/nt1.i/20081014.b/cc1014.d
Date : 14-OCT-2008 09:26
Client ID:
Sample Info: CC1014

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

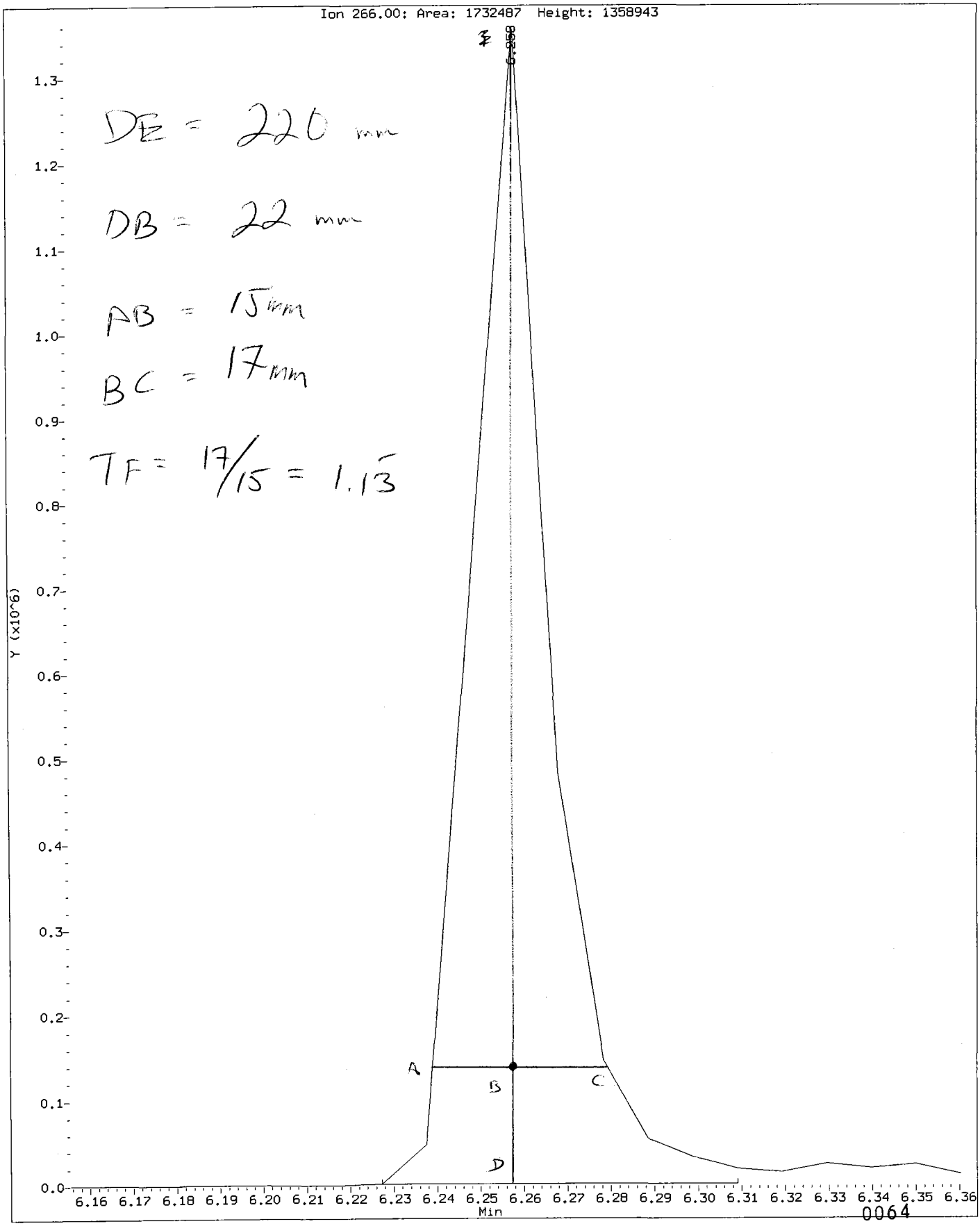
Column phase: ZB-5

0063



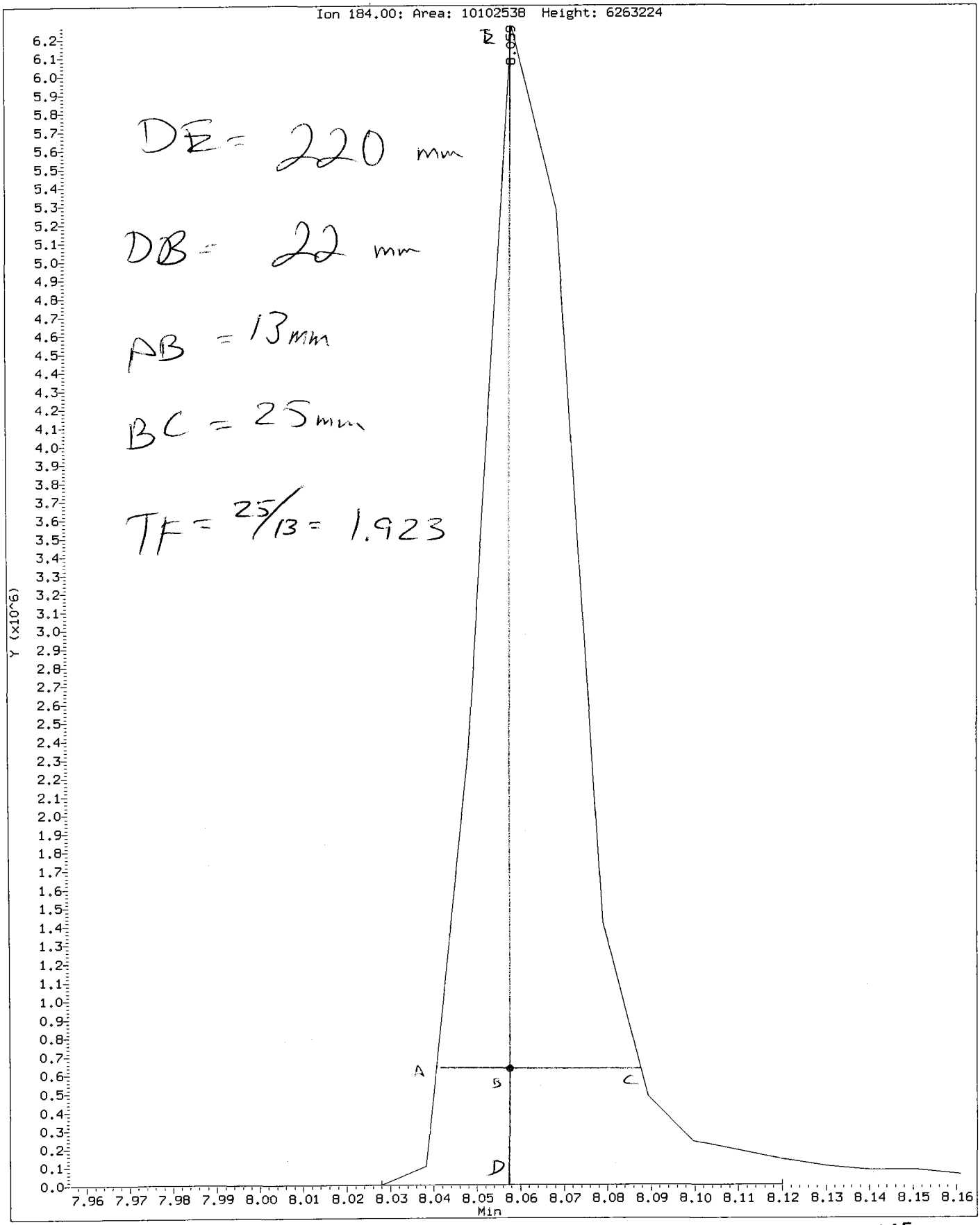
Data File: /chem3/nt1.i/20081014.b/ddt.b/df1014.d
Injection Date: 14-OCT-2008 09:07
Instrument: nt1.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt1.i/20081014.b/ddt.b/df1014.d
Injection Date: 14-OCT-2008 09:07
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt1.i/20081014.b/ddt.b/df1014.d
Method: /chem3/nt1.i/20081014.b/ddt.b/sw846ddt.m
Analysis Date: 14-OCT-2008 09:07

ARI ID: DF1014
Misc:
Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	6.258	1732487
Benzidine	8.059	10102538
4,4'-DDE	8.345	9017
4,4'-DDD	8.806	74462
4,4'-DDT	9.112	4151921

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(\ 9017 + 74462) * 100}{(\ 9017 + 74462 + 4151921)}$$

DDT Percent Breakdown = 2.0 %

TBT Analysis
QC Raw Data

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NT88

Prepared
By

Analytical Resources, Inc.

Data File: /chem3/nt1.i/20081008.b/df1008a.d

Date : 08-OCT-2008 14:29

Client ID:

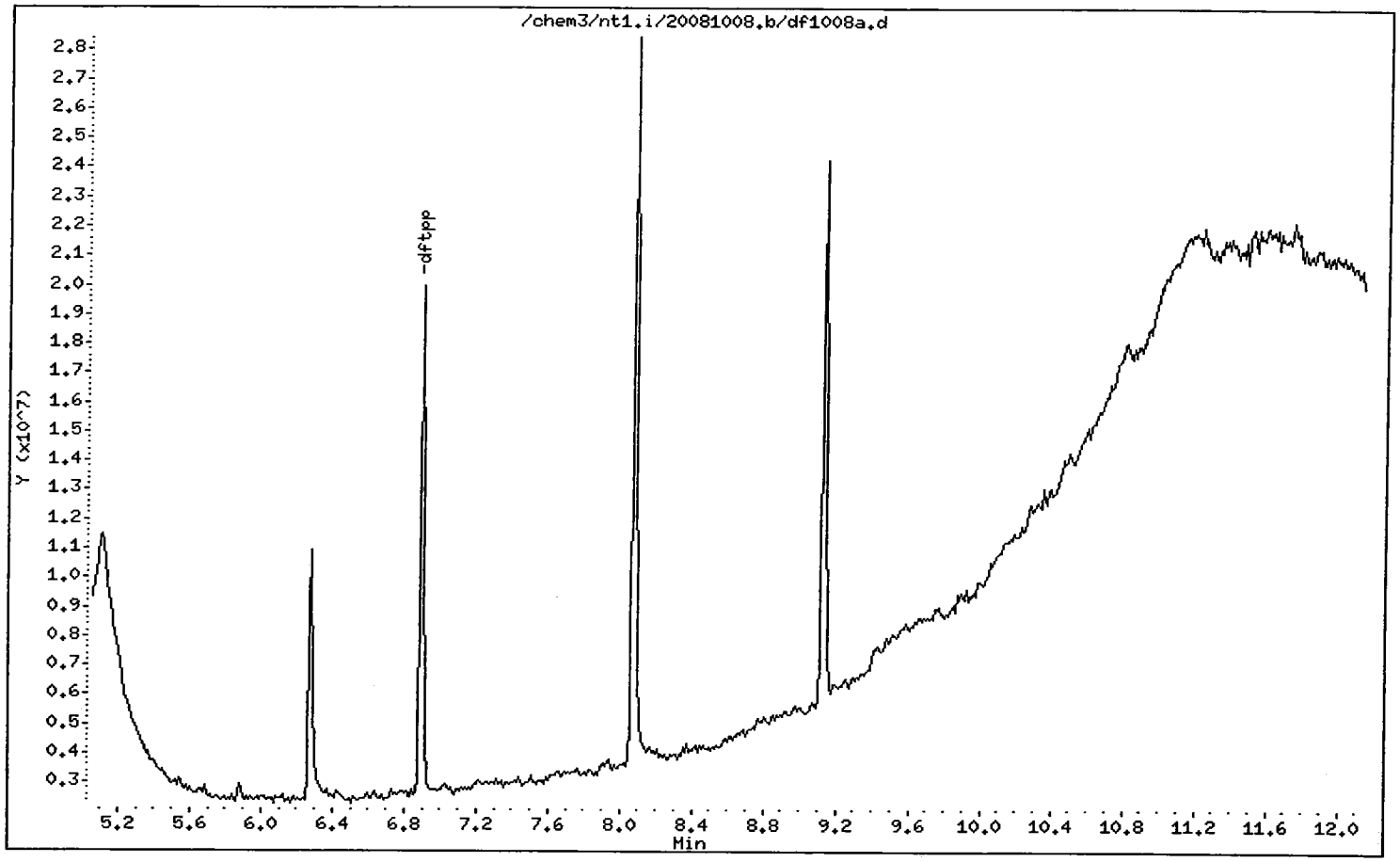
Instrument: nt1.i

Sample Info: DF1008

Operator: VTS

Column phase:

Column diameter: 0.25



Data File: /chem3/nt1.i/20081008.b/df1008a.d

Date : 08-OCT-2008 14:29

Client ID:

Instrument: nt1.i

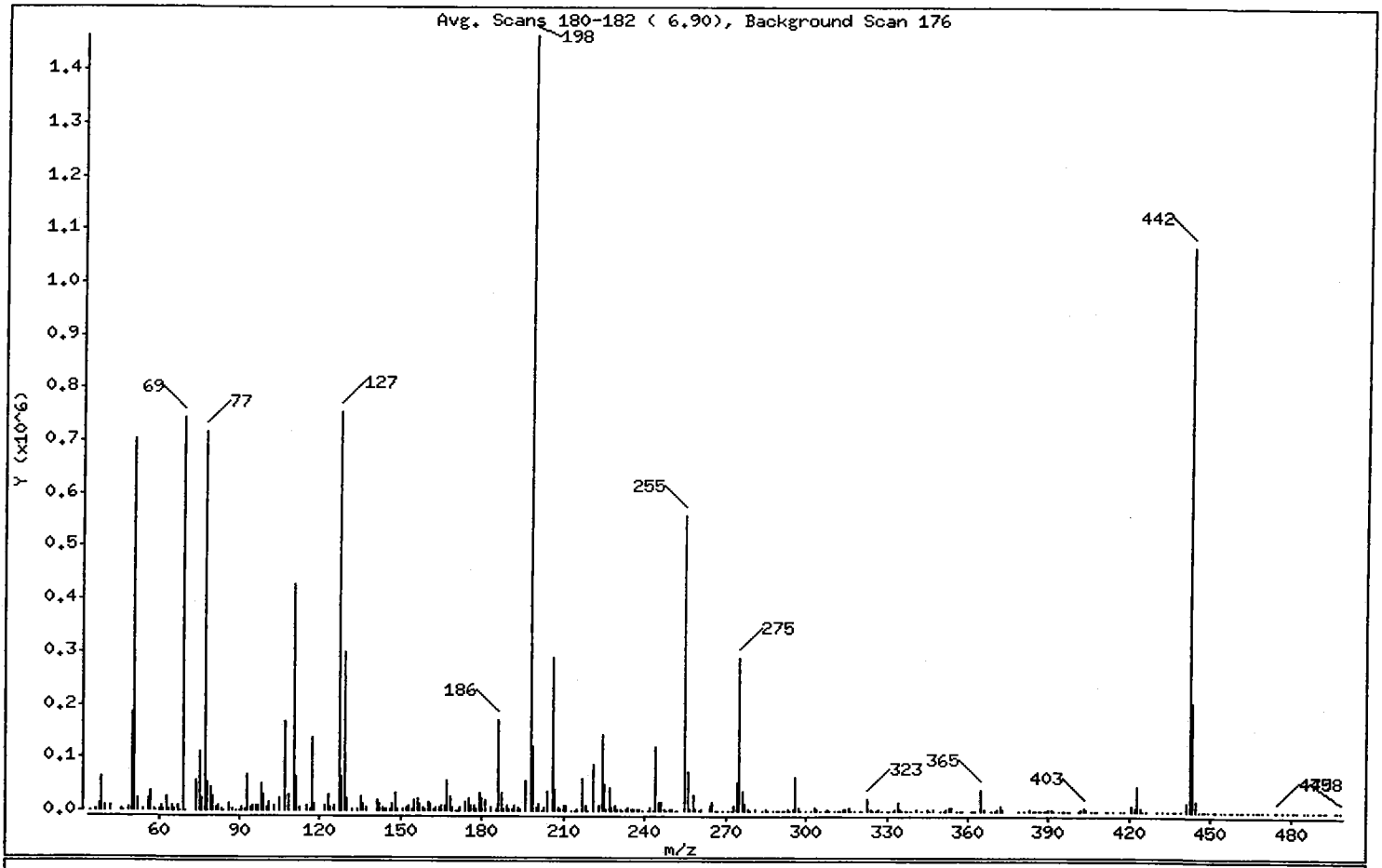
Sample Info: DF1008

Operator: VTS

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	48.12
68	Less than 2.00% of mass 69	0.05 (0.10)
69	Mass 69 relative abundance	50.82
70	Less than 2.00% of mass 69	0.05 (0.10)
127	25.00 - 75.00% of mass 198	51.45
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	8.23
275	10.00 - 30.00% of mass 198	19.71
365	Greater than 0.75% of mass 198	2.65
441	Present, but less than mass 443	1.24
442	40.00 - 110.00% of mass 198	72.97
443	15.00 - 24.00% of mass 442	14.04 (19.24)

Data File: /chem3/nt1.i/20081008.b/df1008a.d

Date : 08-OCT-2008 14:29

Client ID:

Instrument: nt1.i

Sample Info: DF1008

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1008a.d

Spectrum: Avg. Scans 180-182 (6.90), Background Scan 176

Location of Maximum: 198.00

Number of points: 351

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	1264	152.00	5746	251.00	1434	365.00	38856
37.00	2661	153.00	9876	252.00	1653	366.00	4950
38.00	13110	154.00	4945	255.00	559040	369.00	832
39.00	64616	155.00	20688	256.00	74744	370.00	1286
40.00	10576	156.00	22168	257.00	2430	371.00	2564
42.00	9197	157.00	12699	258.00	30032	372.00	11390
46.00	2813	158.00	6208	259.00	3517	373.00	2112
47.00	908	159.00	2670	260.00	359	379.00	540
49.00	5820	160.00	15472	261.00	1925	381.00	51
50.00	185536	161.00	13619	264.00	8694	383.00	3981
51.00	704832	162.00	2566	265.00	15937	384.00	212
52.00	22608	163.00	5081	266.00	1081	385.00	165
54.00	2619	164.00	6985	267.00	1104	386.00	580
56.00	25128	165.00	8486	269.00	304	387.00	505
57.00	36392	166.00	8502	271.00	597	388.00	188
58.00	4110	167.00	55728	272.00	1401	389.00	1076
59.00	1021	168.00	25480	273.00	11507	390.00	2006
60.00	3679	169.00	5274	274.00	54632	391.00	2083
61.00	11778	170.00	989	275.00	288640	392.00	1118
62.00	3422	171.00	1585	276.00	37760	394.00	616
63.00	26432	172.00	6610	277.00	14936	395.00	77
64.00	3221	174.00	17248	278.00	3353	396.00	659
65.00	9955	175.00	24256	279.00	669	397.00	614
66.00	4664	176.00	10800	281.00	1815	398.00	262
67.00	10178	177.00	9438	284.00	1279	401.00	1339
68.00	768	178.00	1711	285.00	2826	402.00	2881
69.00	744256	179.00	33296	286.00	815	403.00	6978
70.00	746	180.00	23864	288.00	254	404.00	2847
74.00	57880	181.00	21368	289.00	1467	406.00	1443
75.00	110784	183.00	8295	290.00	772	407.00	82
76.00	24848	185.00	3893	291.00	223	408.00	155
77.00	715584	186.00	172352	292.00	774	411.00	231
78.00	53888	187.00	34648	293.00	2557	412.00	219
79.00	43664	188.00	4659	294.00	1376	414.00	124
80.00	27944	189.00	9612	295.00	1769	417.00	158

Data File: /chem3/nt1.i/20081008.b/df1008a.d

Date : 08-OCT-2008 14:29

Client ID:

Instrument: nt1.i

Sample Info: DF1008

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1008a.d

Spectrum: Avg. Scans 180-182 (6.90), Background Scan 176

Location of Maximum: 198.00

Number of points: 351

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	7293	190.00	3787	296.00	63360	418.00	242
82.00	8488	191.00	3441	297.00	5365	421.00	10886
83.00	2618	192.00	10633	298.00	392	422.00	6161
84.00	485	193.00	7747	300.00	133	423.00	45584
86.00	14221	194.00	4897	302.00	224	424.00	8125
87.00	2066	196.00	56576	303.00	7624	425.00	1260
89.00	1603	198.00	1464320	304.00	4892	426.00	225
90.00	341	199.00	120592	305.00	1121	430.00	348
91.00	8238	200.00	7793	307.00	870	432.00	853
92.00	4104	201.00	11956	308.00	3529	434.00	369
93.00	65696	202.00	822	309.00	191	436.00	133
94.00	8201	203.00	5846	311.00	193	437.00	107
95.00	9858	204.00	35768	312.00	304	439.00	71
96.00	8489	206.00	290112	313.00	1227	441.00	18224
97.00	10458	207.00	39328	314.00	2326	442.00	1068544
98.00	50624	208.00	8085	315.00	1850	443.00	205568
99.00	31544	209.00	2398	316.00	6282	444.00	20024
100.00	5065	210.00	9500	317.00	619	446.00	205
101.00	18392	211.00	11521	318.00	821	447.00	277
103.00	10523	213.00	978	320.00	274	448.00	302
105.00	25096	214.00	447	321.00	1143	449.00	317
107.00	167488	215.00	2898	323.00	23384	451.00	432
108.00	31320	217.00	61264	324.00	4236	452.00	1007
110.00	427392	218.00	11096	325.00	262	454.00	181
111.00	65200	219.00	843	326.00	1236	455.00	365
112.00	8209	221.00	88288	327.00	1706	457.00	361
115.00	8427	223.00	9724	328.00	582	458.00	588
116.00	1817	224.00	144960	330.00	758	460.00	656
117.00	136512	225.00	48968	331.00	428	461.00	219
118.00	13119	226.00	3067	332.00	1346	462.00	84
122.00	9038	227.00	44160	333.00	2283	464.00	342
123.00	30776	228.00	7570	334.00	17680	466.00	190
124.00	5492	229.00	10002	335.00	3993	467.00	384
125.00	9796	230.00	1849	336.00	651	468.00	229
127.00	753472	231.00	3100	337.00	580	469.00	291

Data File: /chem3/nt1.i/20081008.b/df1008a.d

Date : 08-OCT-2008 14:29

Client ID:

Instrument: nt1.i

Sample Info: DF1008

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1008a.d

Spectrum: Avg. Scans 180-182 (6.90), Background Scan 176

Location of Maximum: 198.00

Number of points: 351

m/z	Y	m/z	Y	m/z	Y	m/z	Y
128.00	62744	232.00	1391	338.00	258	471.00	119
129.00	298816	233.00	2710	339.00	1219	474.00	628
130.00	23600	234.00	5822	341.00	2215	475.00	1079
132.00	2186	235.00	1897	343.00	594	477.00	76
134.00	3403	236.00	2440	345.00	4559	479.00	647
135.00	26256	237.00	1846	346.00	801	481.00	203
136.00	11921	238.00	1831	347.00	1816	482.00	510
137.00	7284	239.00	1660	350.00	377	485.00	129
141.00	20856	241.00	1503	351.00	573	486.00	170
142.00	13042	242.00	7067	352.00	2380	488.00	281
143.00	6969	243.00	978	353.00	5647	490.00	133
144.00	2997	244.00	122640	354.00	6698	491.00	308
145.00	4363	245.00	16464	356.00	301	492.00	215
146.00	3833	246.00	16198	357.00	450	493.00	1067
147.00	14892	247.00	1708	358.00	304	496.00	420
148.00	34312	248.00	824	361.00	580	497.00	185
149.00	4869	249.00	4051	362.00	319	498.00	294
151.00	3435	250.00	3197	363.00	150		

Data File: /chem3/nt1.i/20081014.b/df1014.d

Date : 14-OCT-2008 09:07

Client ID:

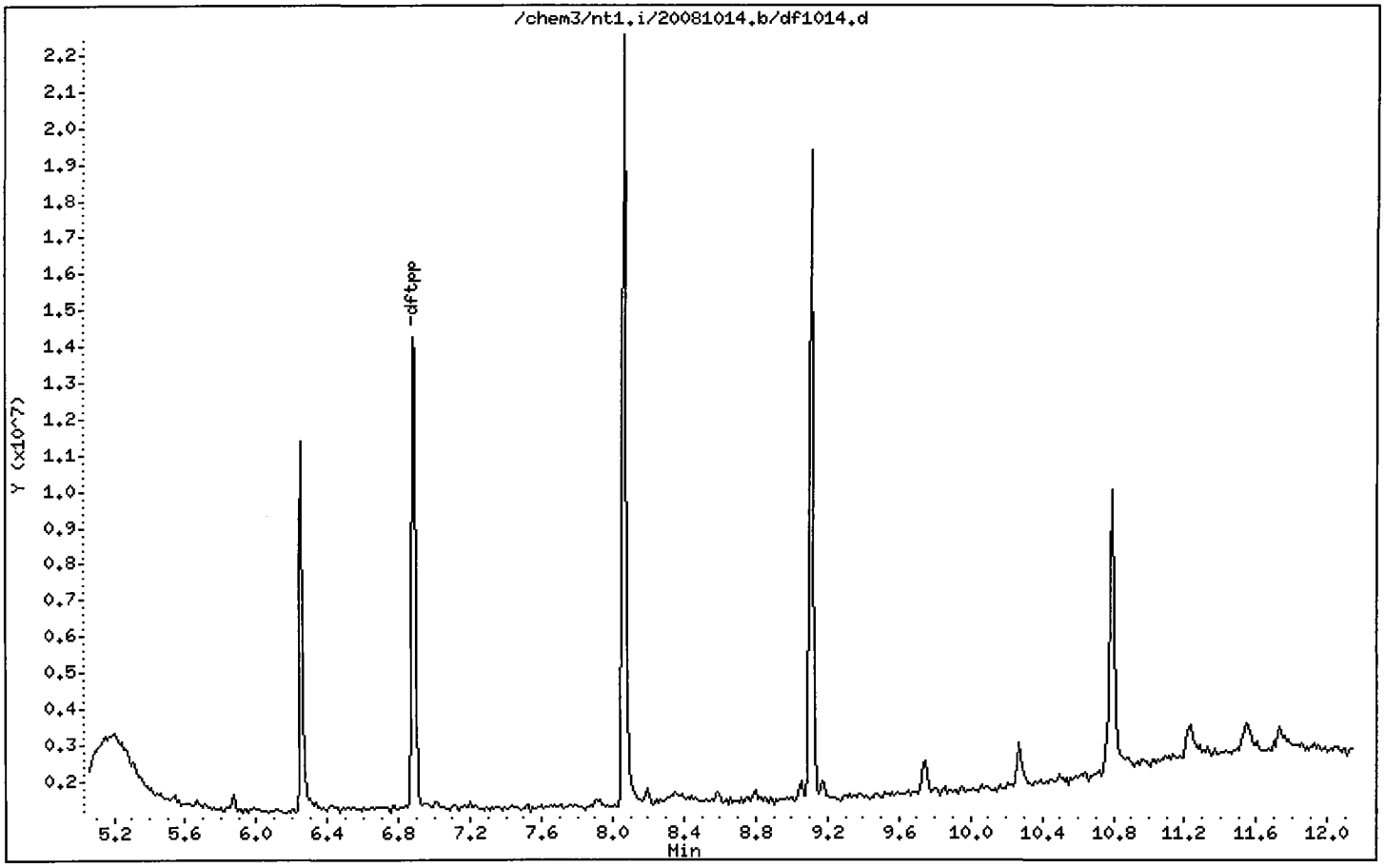
Instrument: nt1.i

Sample Info: DF1014

Operator: VTS

Column phase:

Column diameter: 0.25



Data File: /chem3/nt1.i/20081014.b/df1014.d

Date : 14-OCT-2008 09:07

Client ID:

Instrument: nt1.i

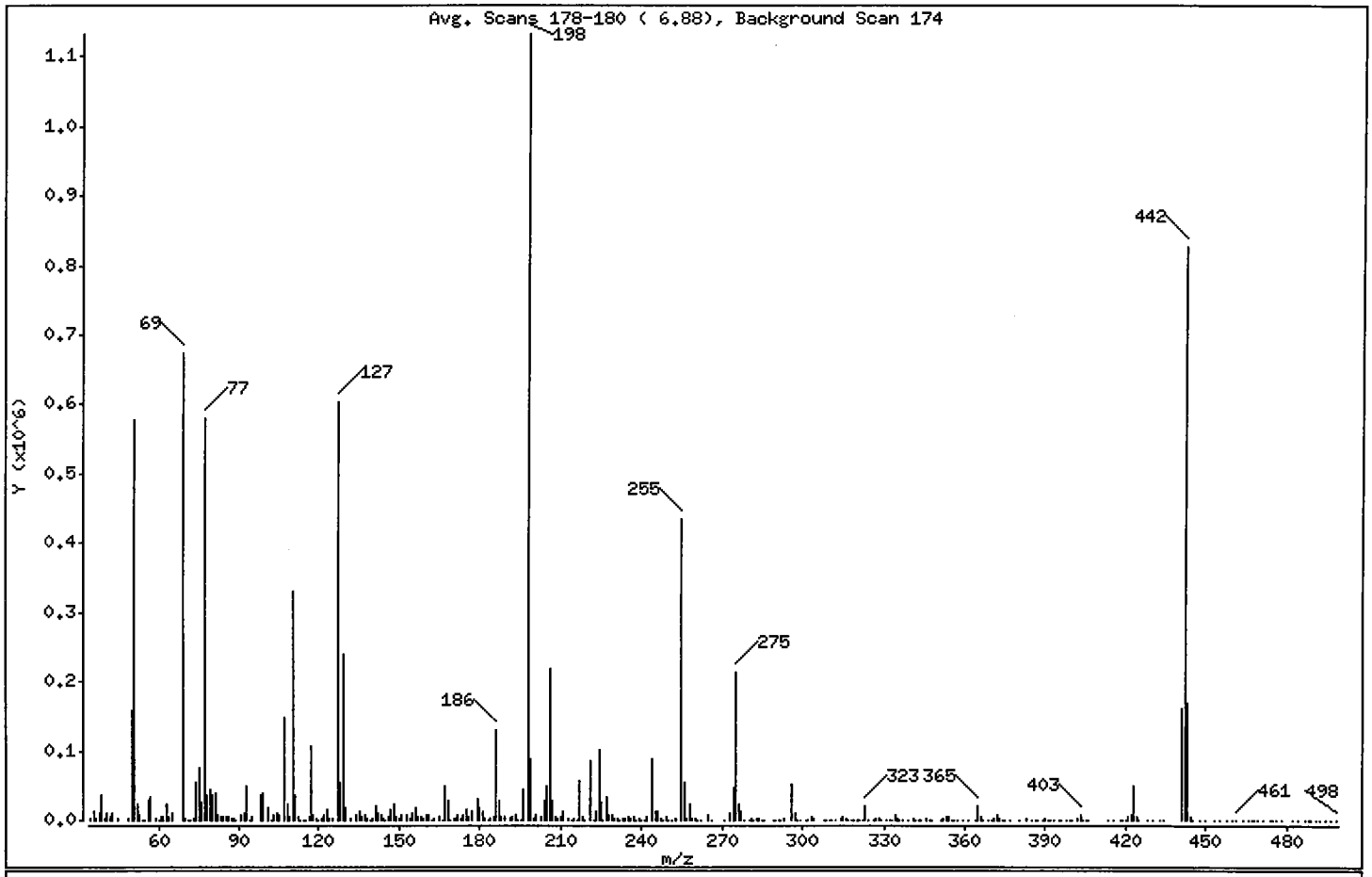
Sample Info: DF1014

Operator: VTS

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	51.00
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	59.49
70	Less than 2.00% of mass 69	0.17 (0.28)
127	25.00 - 75.00% of mass 198	53.27
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.92
275	10.00 - 30.00% of mass 198	18.75
365	Greater than 0.75% of mass 198	1.90
441	Present, but less than mass 443	14.31
442	40.00 - 110.00% of mass 198	73.04
443	15.00 - 24.00% of mass 442	15.06 (20.61)

Data File: /chem3/nt1.i/20081014.b/df1014.d

Date : 14-OCT-2008 09:07

Client ID:

Instrument: nt1.i

Sample Info: DF1014

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1014.d
Spectrum: Avg. Scans 178-180 (6.88), Background Scan 174
Location of Maximum: 198.00
Number of points: 352

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	3418	140.00	2307	237.00	5190	353.00	4527
36.00	12117	141.00	22032	238.00	763	354.00	6221
37.00	2331	142.00	10594	239.00	2270	355.00	1209
38.00	11289	143.00	7434	240.00	403	356.00	154
39.00	36072	144.00	2934	241.00	728	357.00	130
40.00	3853	145.00	113	242.00	5752	359.00	673
41.00	11517	146.00	4350	244.00	87272	361.00	438
42.00	5666	147.00	16122	245.00	12914	364.00	340
43.00	10640	148.00	23456	246.00	14155	365.00	21512
45.00	1839	149.00	4281	247.00	2191	366.00	4149
49.00	2522	150.00	2209	248.00	170	367.00	92
50.00	158912	151.00	8228	249.00	3926	369.00	412
51.00	577472	153.00	9088	250.00	942	370.00	354
52.00	24240	154.00	3769	251.00	500	371.00	2245
53.00	6819	155.00	10122	253.00	2907	372.00	8551
54.00	934	156.00	17280	255.00	434688	373.00	2129
55.00	85	157.00	3950	256.00	54840	374.00	282
56.00	28112	158.00	4685	257.00	3490	375.00	768
57.00	34416	159.00	1671	258.00	24520	377.00	815
59.00	2329	160.00	7367	259.00	1608	380.00	412
60.00	23	161.00	6937	260.00	2182	383.00	3564
61.00	4285	162.00	376	261.00	239	385.00	604
62.00	5408	163.00	2318	262.00	454	386.00	156
63.00	23176	165.00	5587	265.00	7584	387.00	139
64.00	5576	166.00	815	266.00	192	389.00	301
65.00	10912	167.00	48848	271.00	537	390.00	2532
69.00	673536	168.00	28560	273.00	11691	391.00	712
70.00	1877	169.00	789	274.00	46632	392.00	525
71.00	658	170.00	3222	275.00	212288	393.00	232
72.00	1142	171.00	3130	276.00	24520	395.00	938
73.00	2961	172.00	6843	277.00	13322	396.00	245
74.00	53600	173.00	3445	278.00	992	398.00	487
75.00	76360	174.00	6514	280.00	784	399.00	529
76.00	25600	175.00	14591	281.00	1376	400.00	72
77.00	581120	176.00	6108	282.00	168	402.00	3883

Data File: /chem3/nt1.i/20081014.b/df1014.d

Date : 14-OCT-2008 09:07

Client ID:

Instrument: nt1.i

Sample Info: DF1014

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1014.d
Spectrum: Avg. Scans 178-180 (6.88), Background Scan 174
Location of Maximum: 198.00
Number of points: 352

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	37104	177.00	13508	283.00	3652	403.00	8568
79.00	45136	179.00	32376	284.00	3230	404.00	1001
80.00	35224	180.00	18432	285.00	1257	405.00	181
81.00	39280	181.00	12778	286.00	345	406.00	341
82.00	7111	182.00	3069	289.00	352	413.00	81
83.00	5867	183.00	985	290.00	108	415.00	211
84.00	4091	184.00	1454	291.00	698	418.00	129
85.00	4393	185.00	5944	292.00	425	419.00	98
86.00	5228	186.00	130144	293.00	2929	420.00	140
87.00	1576	187.00	29712	296.00	51608	421.00	5218
88.00	2569	188.00	4292	297.00	9782	422.00	7897
89.00	523	189.00	5981	298.00	178	423.00	50472
91.00	7808	191.00	3307	299.00	472	424.00	6458
92.00	9237	192.00	6044	301.00	424	425.00	804
93.00	50608	193.00	8642	302.00	1116	428.00	105
94.00	1044	194.00	605	303.00	5681	430.00	400
95.00	4266	195.00	1071	304.00	1445	433.00	468
98.00	36872	196.00	43040	308.00	889	434.00	406
99.00	38984	198.00	1132032	309.00	623	441.00	162048
101.00	19152	199.00	89728	310.00	1001	442.00	827008
102.00	237	200.00	3798	311.00	271	443.00	170432
103.00	8006	201.00	8179	312.00	402	444.00	4343
104.00	11702	203.00	5462	314.00	1345	445.00	265
105.00	8774	204.00	27488	315.00	4344	448.00	178
107.00	149248	205.00	50656	316.00	3700	450.00	100
108.00	23376	206.00	219264	317.00	310	453.00	194
109.00	5768	207.00	29656	318.00	539	455.00	422
110.00	331072	208.00	4980	319.00	629	458.00	229
111.00	36120	209.00	3350	320.00	92	460.00	123
112.00	5650	210.00	5002	321.00	26	461.00	939
113.00	1154	211.00	12131	322.00	480	464.00	31
114.00	242	213.00	1532	323.00	20136	466.00	519
115.00	1220	214.00	188	324.00	987	467.00	444
116.00	4341	215.00	2233	326.00	1033	468.00	325
117.00	106944	216.00	816	327.00	3494	469.00	107

Data File: /chem3/nt1.i/20081014.b/df1014.d

Date : 14-OCT-2008 09:07

Client ID:

Instrument: nt1.i

Sample Info: DF1014

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1014.d
Spectrum: Avg. Scans 178-180 (6.88), Background Scan 174
Location of Maximum: 198.00
Number of points: 352

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	7856	217.00	57528	328.00	1441	471.00	231
119.00	1598	218.00	5630	329.00	124	474.00	373
120.00	949	219.00	228	331.00	347	475.00	99
121.00	1738	221.00	86256	332.00	687	476.00	142
122.00	7187	222.00	1212	333.00	781	478.00	469
123.00	14344	223.00	13918	334.00	9083	482.00	84
124.00	2699	224.00	101944	335.00	2160	484.00	100
125.00	2217	225.00	27000	336.00	655	487.00	158
127.00	603136	226.00	61	337.00	1043	488.00	108
128.00	53992	227.00	33560	339.00	712	489.00	156
129.00	239488	228.00	7833	341.00	1941	491.00	530
130.00	17192	229.00	6753	342.00	1238	492.00	192
132.00	2682	230.00	1507	343.00	253	494.00	142
134.00	8145	231.00	2721	344.00	21	496.00	342
135.00	13255	232.00	370	346.00	1389	498.00	250
136.00	4744	233.00	1817	347.00	243		
137.00	7258	234.00	2500	348.00	116		
138.00	2262	235.00	4403	351.00	1243		
139.00	1050	236.00	1449	352.00	3379		

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: MB-101308
METHOD BLANK

Lab Sample ID: MB-101308
LIMS ID: 08-27343
Matrix: Pore Water
Data Release Authorized: MW
Reported: 10/14/08

QC Report No: NT88-Anchor Environmental, LLC
Project: Eddon Boatyard
Event: 040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 10/13/08
Date Analyzed: 10/14/08 11:59
Instrument/Analyst: NT1/VTS

Sample Amount: 100 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyl Tin Ion	0.008	< 0.008	U
DBT_ION	Dibutyl Tin Ion	0.012	< 0.012	U
BT_ION	Butyl Tin Ion	0.008	< 0.008	U

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	76.6%
Tripentyl Tin Chloride	82.8%

Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081014.b/nt88mb.d
Lab Smp Id: NT88MBW1 Client Smp ID: NT88MBW1
Inj Date : 14-OCT-2008 11:59
Operator : VTS Inst ID: nt1.i
Smp Info : NT88MBW1
Misc Info : 08-27343
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081014.b/pw3ul.m
Meth Date : 14-Oct-2008 09:57 van Quant Type: ISTD
Cal Date : 08-OCT-2008 16:34 Cal File: ic1008f.d
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	0.50000	Final Extract Volume (mL)
Vo	0.04000	Volume Extracted (L)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ug/L)
$	1 Tripropyl Tin (Hexyl)	291	7.607	7.610	(0.824)	11299	22.5301	281.6
	2 Tetrabutyl Tin	289	Compound Not Detected.					
	3 Tributyl Tin (Hexyl)	319	Compound Not Detected.					
*	4 Tetrapentyl Tin	333	9.234	9.235	(1.000)	130769	200.000	
	5 Dibutyl Tin (Hexyl)	347	Compound Not Detected.					
$	6 Tripentyl Tin (Hexyl)	347	9.570	9.569	(0.944)	9153	23.5371	294.2
	7 Butyl Tin (Hexyl)	347	Compound Not Detected.					
*	8 p-Terphenyl-d14	244	10.136	10.136	(1.000)	125425	20.0000	

VTS 10.14.08

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: nt88mb.d
Lab Smp Id: NT88MBW1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081014.b/pw3ul.m
Misc Info: 08-27343

Calibration Date: 14-OCT-2008
Calibration Time: 09:26
Client Smp ID: NT88MBW1
Level: LOW
Sample Type: Liquid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	127356	63678	254712	130769	2.68
8 p-Terphenyl-d14	125778	62889	251556	125425	-0.28

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.24	8.74	9.74	9.23	-0.01
8 p-Terphenyl-d14	10.14	9.64	10.64	10.14	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: LIQUID
Lab Smp Id: NT88MBW1
Level: LOW
Data Type: MS DATA
SpikeList File: PW.spk
Sublist File: PW.sub
Method File: /chem3/nt1.i/20081014.b/pw3ul.m
Misc Info: 08-27343

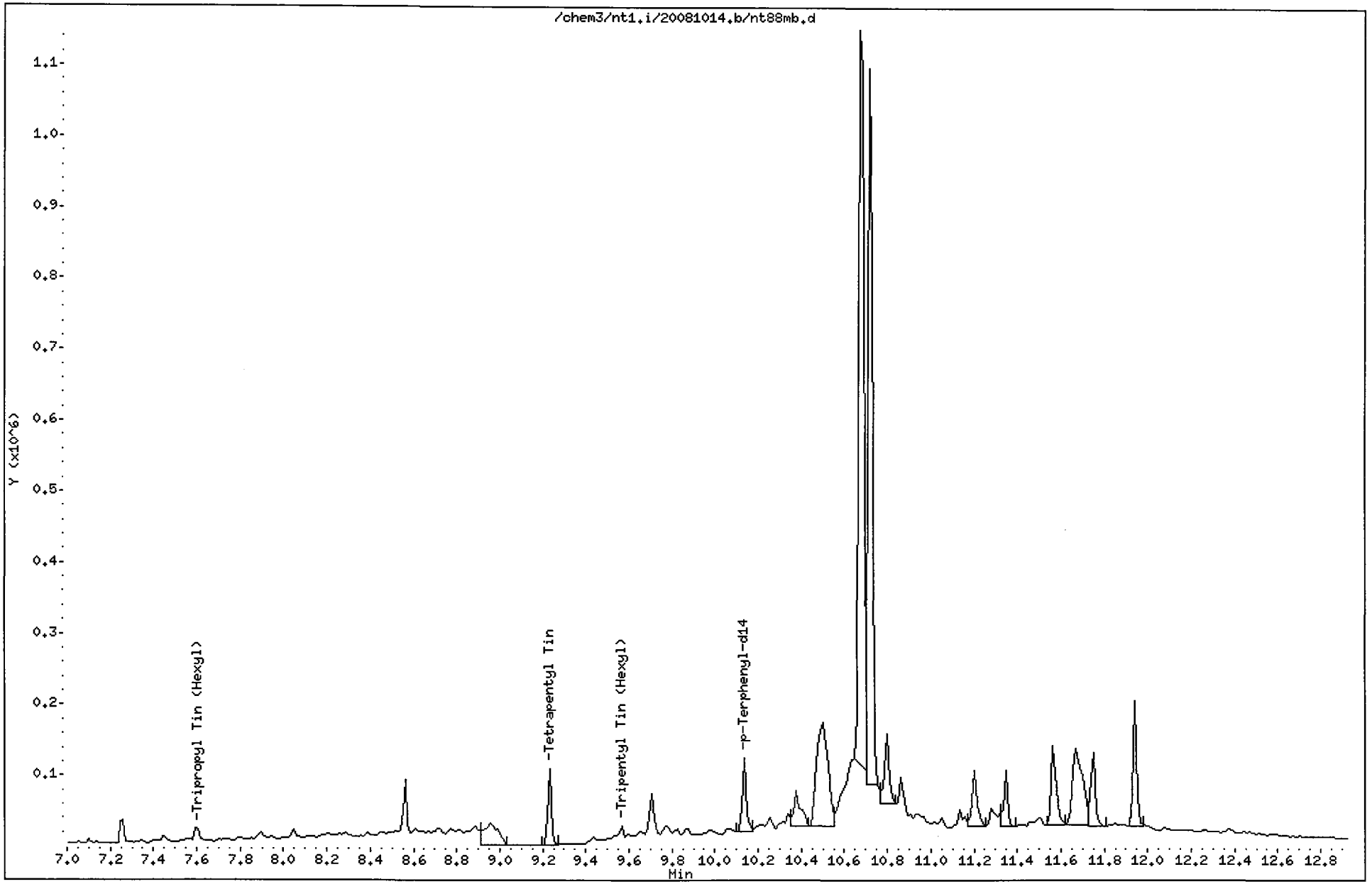
Client SDG: NT88
Fraction: SV
Client Smp ID: NT88MBW1
Operator: VTS
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 1 Tripropyl Tin (Hex	312.5	281.6	90.12	30-108
$ 6 Tripentyl Tin (Hex	312.5	294.2	94.15	23-97

Data File: /chem3/nt1.i/20081014.b/nt88mb.d
Date : 14-OCT-2008 11:59
Client ID: NT88MBW1
Sample Info: NT88MBW1
Purge Volume: 0.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

0082



Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081014.b/nt88sb.d
Lab Smp Id: NT88LCSW1 Client Smp ID: NT88LCSW1
Inj Date : 14-OCT-2008 12:18
Operator : VTS Inst ID: nt1.i
Smp Info : NT88LCSW1
Misc Info : 08-27343
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081014.b/pw3ul.m
Meth Date : 14-Oct-2008 09:57 van Quant Type: ISTD
Cal Date : 08-OCT-2008 16:34 Cal File: ic1008f.d
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	0.50000	Final Extract Volume (mL)
Vo	0.04000	Volume Extracted (L)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	FINAL (ug/L)
$	1 Tripropyl Tin (Hexyl)	291	7.598	7.610	(0.823)	11391	22.5030	281.3
	2 Tetrabutyl Tin	289	Compound Not Detected.					
	3 Tributyl Tin (Hexyl)	319	8.584	8.584	(0.929)	8893	21.0256	262.8
*	4 Tetrapentyl Tin	333	9.235	9.235	(1.000)	131992	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.276	9.276	(0.915)	11653	44.3419	554.3
$	6 Tripentyl Tin (Hexyl)	347	9.570	9.569	(0.944)	9043	22.6084	282.6
	7 Butyl Tin (Hexyl)	347	9.906	9.906	(0.977)	7754	17.3191	216.5
*	8 p-Terphenyl-d14	244	10.136	10.136	(1.000)	129008	20.0000	

VTS
10.14.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: nt88sb.d
Lab Smp Id: NT88LCSW1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081014.b/pw3ul.m
Misc Info: 08-27343

Calibration Date: 14-OCT-2008
Calibration Time: 09:26
Client Smp ID: NT88LCSW1
Level: LOW
Sample Type: Liquid

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	127356	63678	254712	131992	3.64
8 p-Terphenyl-d14	125778	62889	251556	129008	2.57

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.24	8.74	9.74	9.24	0.00
8 p-Terphenyl-d14	10.14	9.64	10.64	10.14	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: LIQUID
Lab Smp Id: NT88LCSW1
Level: LOW
Data Type: MS DATA
SpikeList File: PW.spk
Sublist File: PW.sub
Method File: /chem3/nt1.i/20081014.b/pw3ul.m
Misc Info: 08-27343

Client SDG: NT88
Fraction: SV
Client Smp ID: NT88LCSW1
Operator: VTS
SampleType: LCS
Quant Type: ISTD

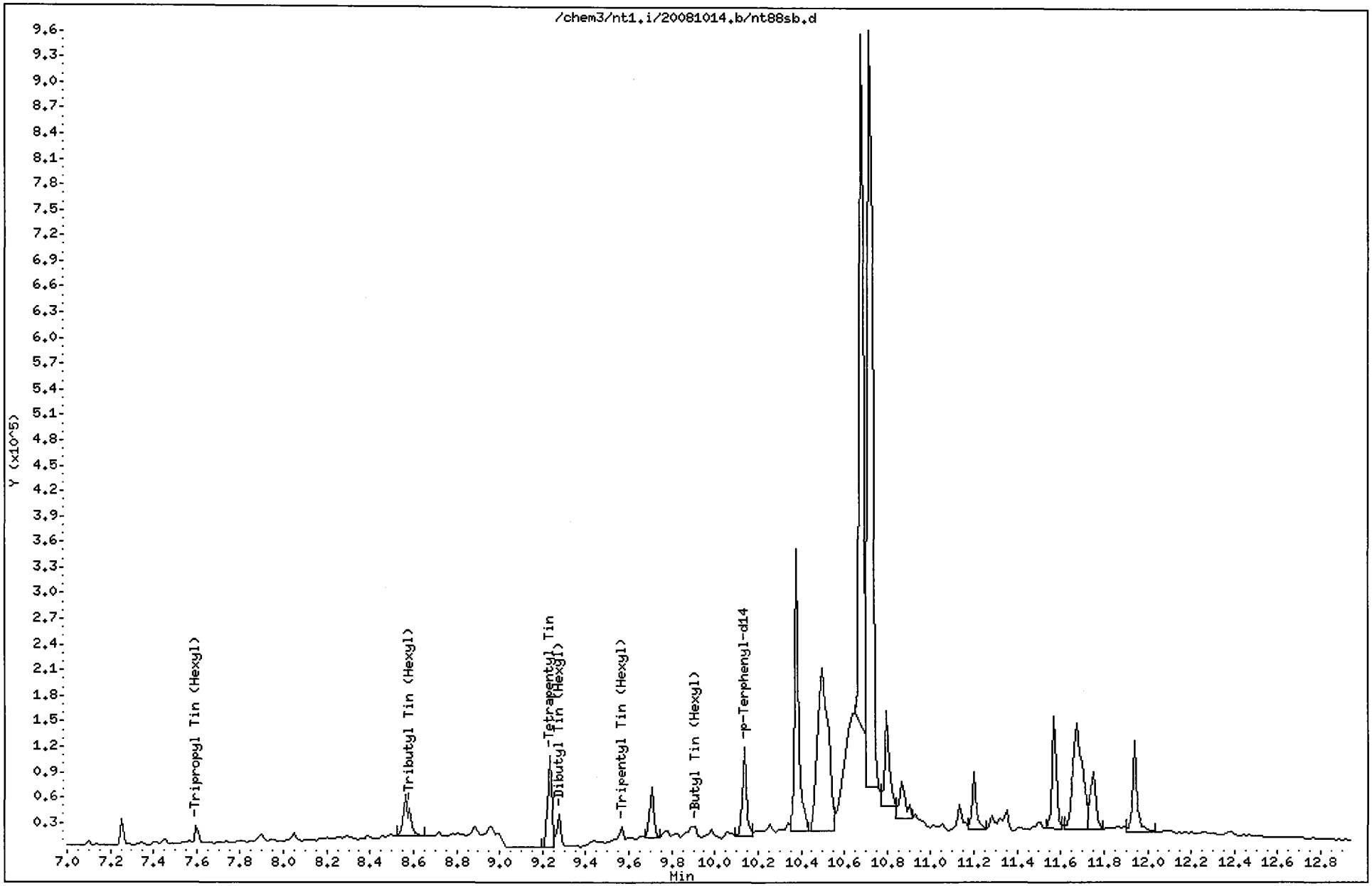
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
3 Tributyl Tin (Hexy	312.5	262.8	84.10	10-147
5 Dibutyl Tin (Hexyl	625.0	554.3	88.68	10-142
7 Butyl Tin (Hexyl)	625.0	216.5	34.64	10-91

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 1 Tripropyl Tin (Hex	312.5	281.3	90.01	30-108
$ 6 Tripentyl Tin (Hex	312.5	282.6	90.43	23-97

Data File: /chem3/nt1.i/20081014.b/nt88sb.d
Date : 14-OCT-2008 12:18
Client ID: NT88LCSW1
Sample Info: NT88LCSW1
Purge Volume: 0.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

0086



Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081014.b/nt88sbd.d
Lab Smp Id: NT88LCSDW1 Client Smp ID: NT88LCSDW1
Inj Date : 14-OCT-2008 12:38
Operator : VTS Inst ID: nt1.i
Smp Info : NT88LCSDW1
Misc Info : 08-27343
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081014.b/pw3ul.m
Meth Date : 14-Oct-2008 09:57 van Quant Type: ISTD
Cal Date : 08-OCT-2008 16:34 Cal File: ic1008f.d
Als bottle: 9 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	0.50000	Final Extract Volume (mL)
Vo	0.04000	Volume Extracted (L)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	FINAL (ug/L)
$	1 Tripropyl Tin (Hexyl)	291	7.608	7.610	(0.824)	11057	22.9353	286.7
	2 Tetrabutyl Tin	289	Compound Not Detected.					
	3 Tributyl Tin (Hexyl)	319	8.585	8.584	(0.930)	9726	24.1447	301.8
*	4 Tetrapentyl Tin	333	9.234	9.235	(1.000)	125707	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.274	9.276	(0.915)	12341	48.9524	611.9
$	6 Tripentyl Tin (Hexyl)	347	9.570	9.569	(0.944)	8450	22.0222	275.3
	7 Butyl Tin (Hexyl)	347	9.907	9.906	(0.977)	11176	26.0215	325.3
*	8 p-Terphenyl-d14	244	10.136	10.136	(1.000)	123757	20.0000	

WS
10-14-2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: nt88sbd.d
Lab Smp Id: NT88LCSDW1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081014.b/pw3ul.m
Misc Info: 08-27343

Calibration Date: 14-OCT-2008
Calibration Time: 09:26
Client Smp ID: NT88LCSDW1
Level: LOW
Sample Type: Liquid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	127356	63678	254712	125707	-1.29
8 p-Terphenyl-d14	125778	62889	251556	123757	-1.61

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.24	8.74	9.74	9.23	-0.01
8 p-Terphenyl-d14	10.14	9.64	10.64	10.14	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: LIQUID
Lab Smp Id: NT88LCSDW1
Level: LOW
Data Type: MS DATA
SpikeList File: PW.spk
Sublist File: PW.sub
Method File: /chem3/nt1.i/20081014.b/pw3ul.m
Misc Info: 08-27343

Client SDG: NT88
Fraction: SV
Client Smp ID: NT88LCSDW1
Operator: VTS
SampleType: LCSD
Quant Type: ISTD

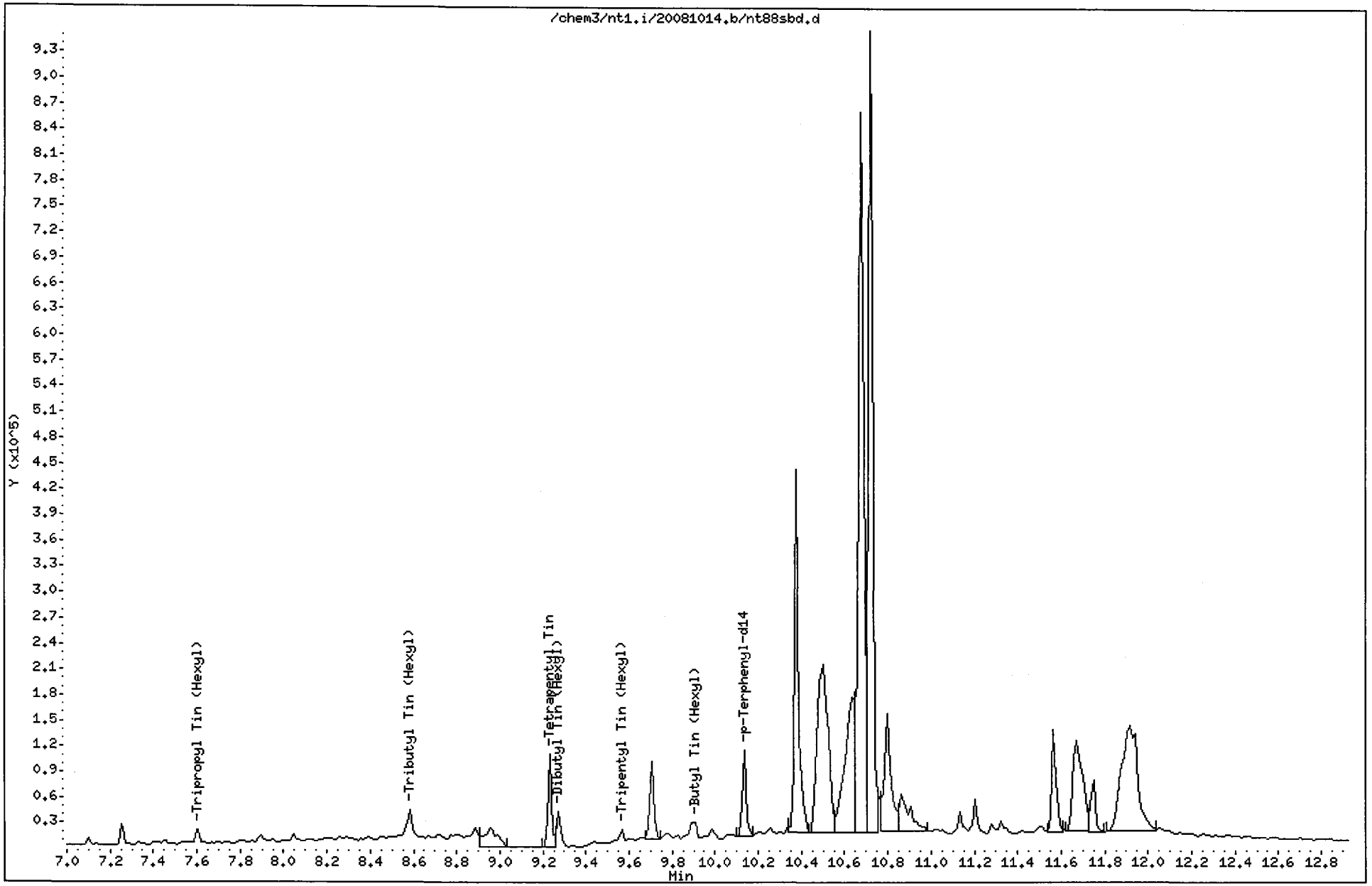
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
3 Tributyl Tin (Hexy	312.5	301.8	96.58	10-147
5 Dibutyl Tin (Hexyl	625.0	611.9	97.90	10-142
7 Butyl Tin (Hexyl)	625.0	325.3	52.04	10-91

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 1 Tripropyl Tin (Hex	312.5	286.7	91.74	30-108
$ 6 Tripentyl Tin (Hex	312.5	275.3	88.09	23-97

Data File: /chem3/nt1.i/20081014.b/nt88sbd.d
Date : 14-OCT-2008 12:38
Client ID: NT88LCSDW1
Sample Info: NT88LCSDW1
Purge Volume: 0.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

0600



TBT Analysis
Extraction Bench Sheets and Run Logs

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NT88

Prepared
By

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

RUSH

Organic Extractions Benchsheet

Tributyl Tin – Pore Water
Separatory Funnel (3510C) (SOP # 316S)

Preparation Test TBT # 2

Pore Water

ARI Job No(s) NT88

Batch set up by: SH

Bottle #	Extraction Requirements	Date	Volume Extracted	KD	Turbo Vap (1) 2 3	(REQ) Derivitized (1:1) (Y) N	Turbo Vap 1 2 3	(REQ) Alumina Clean (1:1) (Y) N	Turbo Vap (1) 2 3	Final Effective Volume	Volume to Lab	Comments
	NT88 MBW	10-13-08	100mL			4mL		1mL		0.5mL	0.5mL	Blanks= Sea H20
	SBW		↓			↓		↓		↓	↓	↓
	SBWDup.		↓			↓		↓		↓	↓	↓
1	A	Verified	44 ml	↓	↓	↓		↓	↓	↓	↓	
Analyst/Date: PD 10-13-08				NTO 10/13	SP 10/14	→		SP 10/14	→	→		

10-27-08

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	J	50µL	12/15/08	TWS	PD
Spike	9	50µL	12/15/08	TWS	PD
Extraction Time:	12:15				

SPECIAL INSTRUCTIONS:
1. Rinse all glassware with 0.02% Tropolone.
2. Pre-wash "Sea Water" blanks with 30mL DCM (2min shake) (Discard DCM). 3. Add Surr/Spk. 4. Acidify with 1:1 HCL.
5. Extract 1 X with 30mL 0.02% Tropolone (4 min shake). Plus 2 X 30mL DCM.
6. KD rinsed with 0.02% Tropolone (NO Drying Column) at 80°. 7. Exchange (2 X with 10mL) to Hexane at 100°.
8. TurboVap. 9. Derivitize=Transfer Rinse. 10. TurboVap ~~11. 0%~~ Alumina Clean-up Required. 12. TurboVap.
13. Vial. A. Archive Y (N)

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory
Analyst Notes

ARI Job No.: NT88

Client ID: Anchor Environmental, LLC

Parameter: TBT Pore H2O

Client Project: Eddon Boatyard

SOP Number(s): 3165

No Anomalies:

List problems, concerns, corrective actions and any other pertinent information
Limited Sample Volume received. Extracted all received volume. ~~SA~~ 1/13/08

Analyst Initials:		**Date:**	

056F

Revision 006
1/12/07

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

RI Project ID: CURVE Client ID: _____

RI SOP: **801S**(SIM-PNA) **802S**(BTS-HX) (**803S**(BTS-PW)) **804S**(8270D) **805S**(BTS-ET)

arameter(s): pore water - CURVE

ıstrument: (NT-1) NT-2 NT-4 NT-6

urve Date: 10.8.2008 Analysis Start Date: 10.8.2008

FTPP Tune Meets Criteria?	(YES) / NO	Method Blank in Control?	YES / NO
DT Breakdown <20%?	(YES) / NO / NA	LCS / LCSD Recovery in Control?	YES / NO
eak Tailing Factor in Control?	(YES) / NO / NA	MS/MSD Recovery in Control?	YES / NO
al Meets RF & %RSD Criteria?	(YES) / NO	Surrogate Recovery in Control?	YES / NO
Cal Meets RF & %RSD Criteria?	(YES) / NO	Special Analysis Criteria Met?	YES / NO / NA
ternal Standard Meets Criteria?	(YES) / NO		

etail problems, corrective actions and/or other pertinent information below (use reverse side nen necessary):

All targets met 15% RSD

ditional Details on Reverse: Yes / No

alyst Signature: _____ **Date:** 10.9.2008

viewer's Signature: _____ **Date:** 10/9/08

Analytical Resources Inc.: Organics Instrument Log

NT-1 (Serial No.: Mass Spec = 3341A01294; Mass Spec GC = 3336A53338)

Date: 10·8·2008 Analysis: Porews by -TBT Analyst: VTS

GC Program: NT1PW Column No: 132730 Column Type: ZB-5ms,

Instrument Tune (.U or .CT.): 081002.U EM Voltage: 2647

Calibration File: df1008A Curve Date: 10·8·2008

IS/SS	Ical/Ccal	LCS/ICV
(1487-5)	(1544-4)	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt1.

	Time	Filename	LabID	ClientId	DF				
1	1429	df1008a.d	DF1008		1	NO ISTDS FOUND			
2	1449	ic1008a.d	IC1008A		1	9.25	221939	10.15	218922
3	1515	ic1008b.d	IC1008B		1	9.25	218823	10.15	204558
4	1535	ic1008c.d	IC1008C		1	9.25	211526	10.15	211940
5	1555	ic1008d.d	IC1008D		1	9.25	195361	10.15	192944
6	1614	ic1008e.d	IC1008E		1	9.25	259986	10.15	255658
7	1634	ic1008f.d	IC1008F		1	9.25	208783	10.15	213713
8	1654	ns86mb.d	NS86MBW1	NS86MBW1	1	9.25	162589	10.15	152778
9	1714	ns86sb.d	NS86LCSW1	NS86LCSW1	1	9.25	174371	10.15	166231
0	1733	ns86a.d	NS86A	EB-SEO1-A-081003	1	9.25	162700	10.15	152840
1	1753	ns86b.d	NS86B	EB-SEO2-A-081003	1	BROKEN VIAL- MIS-INJECTED			
2	1813	ns86bms.d	NS86BMS	EB-SEO2-A-08100 MS	1	9.25	168190	10.15	155388
3	1832	ns86bmsd.d	NS86BMSD	EB-SEO2-A-08100 MSD	1	9.25	156422	10.15	150413
4	1852	ns86c.d	NS86C	EB-SEO3-A-081003	1	9.25	164946	10.15	151090
5	1912	ns86d.d	NS86D	EB-SEO4-A-081003	1	9.25	159280	10.15	150802
6	1931	nr46mb.d	NR46MBW1	NR46MBW1	1	9.25	167832	10.15	157929
7	1951	nr46sb.d	NR46LCSW1	NR46LCSW1	1	9.25	166322	10.15	150133
8	2010	nr46a.d	NR46A	EW-SW-1-U-2	1	9.25	158588	10.15	148614
9	2030	nr46b.d	NR46B	EW-SW-1-L-2	1	9.25	163749	10.15	145985
0	2049	nr46bms.d	NR46BMS	EW-SW-1-L-2 MS	1	9.25	159996	10.15	142911
	2109	nr46bmsd.d	NR46BMSD	EW-SW-1-L-2 MSD	1	9.25	162419	10.15	143610
	2128	nr46c.d	NR46C	EW-SW-101-L-2	1	9.25	154721	10.15	137863
23	2148	nq90mb.d	NQ90MBW1	NQ90MBW1	1	9.25	157319	10.15	138663
24	2207	nq90sb.d	NQ90LCSW1	NQ90LCSW1	1	9.25	156099	10.15	133653
25	2227	nq90a.d	NQ90A	EW-SW-6-U-2	1	9.25	158629	10.15	139410
26	2246	nq90b.d	NQ90B	EW-SW-6-L-2	1	9.25	183280	10.15	160213
27	2305	nq90c.d	NQ90C	EW-SW-5-U-2	1	9.25	151286	10.15	129240
28	2325	nq90d.d	NQ90D	EW-SW-5-L-2	1	9.25	154105	10.15	128762
29	2344	nq90e.d	NQ90E	EW-SW-5-L-2-RB	1	9.25	153490	10.15	129291
30	0003	nr24a.d	NR24A	EW-SW-2-U-2	1	9.25	144796	10.15	130093
31	0023	nr24ams.d	NR24AMS	EW-SW-2-U-2 MS	1	9.25	149342	10.15	122332
32	0042	nr24amsd.d	NR24AMSD	EW-SW-2-U-2 MSD	1	9.25	147457	10.15	124748
33	0101	nr24b.d	NR24B	EW-SW-2-L-2	1	9.25	153806	10.15	125181
34	0121	nr24c.d	NR24C	EW-SW-3-U-2	1	9.25	151455	10.15	126184
35	0140	nr24d.d	NR24D	EW-SW-3-L-2	1	9.25	141204	10.15	123189

Maintenance / Comments

new liner/new septum/clipped column/flushed injector

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): IC 1008A

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

10.9.VTS 10.9.08

Analytical Resources Inc.: Organics Instrument Log

NT-1 (Serial No.: Mass Spec = 3341A01294; Mass Spec GC = 3336A53338)

Date: 10.14.2008 Analysis: TBT-porewater Analyst: VTS

GC Program: NT1pw Column No: 132730 Column Type: ZB-5msi

Instrument Tune (.U or .CT.): 081002.U EM Voltage: 2649

Calibration File: df1014 Curve Date: 10.8.2008

IS/SS (1487-5) Ical/Ccal (1544-4) LCS/ICV

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt

	Time	Filename	LabID	ClientId	DF				
1	0907	df1014.d	DF1014		1	NO ISTDS FOUND			
2	0926	cc1014.d	CC1014		1	9.24	127356	10.14	125778
3	0957	nr59mb.d	NR59MBW1	NR59MBW1	1	9.23	156434	10.13	152457
4	1016	nr59sb.d	NR59LCSW1	NR59LCSW1	1	9.23	130343	10.13	118378
5	1036	nr59sbd.d	NR59LCSDW1	NR59LCSDW1	1	9.23	131112	10.13	122071
6	1055	nr59a.d	NR59A	T5-S2-CS	1	9.24	116943	10.14	107652
7	1114	nr86a.d	NR86A	T5-S1-CS	1	9.23	135118	10.14	123080
8	1134	nr86b.d	NR86B	T5-S3-CS	1	9.23	138890	10.13	136818
9	1159	nt88mb.d	NT88MBW1	NT88MBW1	1	9.23	130769	10.14	125425
10	1218	nt88sb.d	NT88LCSW1	NT88LCSW1	1	9.24	131992	10.14	129008
11	1238	nt88sbd.d	NT88LCSDW1	NT88LCSDW1	1	9.23	125707	10.14	123757
12	1257	nt88a.d	NT88A	EB-SE03-B-081008	1	9.24	122139	10.14	122818
13	1317	nr86bdl.d	NR86B	T5-S3-CS	5	9.24	92660	10.14	95523

VTS 10.14.2008

Maintenance / Comments

New liner/new septum/clipped column/flushed inlet

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): CC1014

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: NT88 Client ID: Anchr

ARI SOP: **801S**(SIM-PNA) **802S**(BTS-HX) **803S**(BTS-PW) **804S**(8270D) **805S**(BTS-ET)

Parameter(s): TBT - pore water

Instrument: NT-1 NT-2 NT-4 NT-6

Curve Date: 10.8.2008 Analysis Start Date: 10.14.2008

DFTPP Tune Meets Criteria?	YES / NO	Method Blank in Control?	YES / NO
DDT Breakdown <20%?	YES / NO / NA	LCS / LCSD Recovery in Control?	YES / NO
Peak Tailing Factor in Control?	YES / NO / NA	MS/MSD Recovery in Control?	YES / NO
ICal Meets RF & %RSD Criteria?	YES / NO	Surrogate Recovery in Control?	YES / NO
CCal Meets RF & %RSD Criteria?	YES / NO	Special Analysis Criteria Met?	YES / NO / NA
Internal Standard Meets Criteria?	YES / NO		

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

- full pucker

Additional Details on Reverse: Yes / No

Analyst Signature: [signature] **Date:** 10.14.2008

Reviewer's Signature: [signature] **Date:** 10-14-08

Analytical Resources, Incorporated
Analytical Chemists and Consultants

November 14, 2008

Joy Dunay
Anchor Environmental
1423 3rd Avenue, Suite 300
Seattle, WA 98101

RE: 040289-02 Eddon Boatyard
ARI Job No. NS89

Dear Joy:

Please find enclosed the original chain of custody documentation and the final data package for samples from the project referenced above.

Sample receipt and details of the analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.
Elisabeth Joshi
for
Susan Dunnihoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures

cc: eFile NS89

SD/esj

Chain of Custody
Documentation

prepared
for

ANCHOR ENVIRONMENTAL, LLC.

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NS89

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: NS89	Turn-around Requested: 72 hour on SED.
ARI Client Company: Anchor Environmental	Phone: 206-903-3320
Client Contact: Joy Duma	
Client Project Name: EDDON Boatyard	
Client Project #: 040289-02	Samplers: JD, DG

Page: 1 of 1	
Date: 10/3/08	Ice Present?
No. of Coolers:	Cooler Temps:

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Total Solid	TOC	SMS Metals	SMS SVOCs	TBT (ANION) Porewater	SMS PCBs	MTCA PAHs	Grainsize PSEP	Notes/Comments
					Analysis Requested								
EB-SE01-A-081003	10/3/08	1300	SE	2					X				See SAP for Analyte lists & RL's
EB-SE02-A-081003		1230	SE	2					X				72 HOUR RUSH
EB-SE03-A-081003		1145	SE	5	X	X	X	X	X	X		X	
EB-SE03-B-081003		1150	SE	1									ARCHIVE ONLY
EB-SE04-A-081003		1200	SE	4	X	X	X	X	X	X		X	
EB-SE04-B-081003		1205	SE	1									ARCHIVE ONLY
EBSO01-COMP-081003		1415	SO	1	X						X		

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
RUSH TAT 72 hrs. on SEDIMENT SAMPLES	(Signature) Joy Duma	(Signature) Jonathan Walter	(Signature)	(Signature)
	Printed Name: Joy Duma	Printed Name: Jonathan Walter	Printed Name:	Printed Name:
	Company: Anchor Env.	Company: ARI	Company:	Company:
	Date & Time: 10/3/08 1600	Date & Time: 10/3/08 1600	Date & Time:	Date & Time:

0002

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Anchor Project Name: EDDDN Boatyard

COC No: _____ Delivered by: Hand

Assigned ARI Job No: NS89 Tracking No: _____

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO
Record cooler temperature (recommended 2.0-6.0 °C for chemistry	8.2 °C	

Cooler Accepted by: JW Date: 10/3/08 Time: 1600

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?	YES	(NO)
What kind of packing material was used?	Bw/Ice	
Was sufficient ice used (if appropriate)?	(YES)	NO
Were all bottles sealed in individual plastic bags?	YES	(NO)
Did all bottle arrive in good condition (unbroken)?	(YES)	NO
Were all bottle labels complete and legible?	(YES)	NO
Did all bottle labels and tags agree with custody papers?	(YES)	NO
Were all bottles used correct for the requested analyses?	(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation checklist)	YES	(NO)
Were all VOC vials free of air bubbles? (NA)	YES	NO
Was sufficient amount of sample sent in each bottle?	(YES)	NO

Samples Logged by: KR Date: 10/7/08 Time: 1030

*** Notify Project Manager of discrepancies or concerns ***

Explain discrepancies or negative responses:

By: Date:

0003

Case Narrative

prepared
for

ANCHOR ENVIRONMENTAL, LLC.

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NS89

prepared
by

Analytical Resources, Inc.

Case Narrative

Client: Anchor Environmental
Project: 040289-02 Eddon Boatyard
ARI Job No.: NS89

Sample receipt

Seven sediment samples were received by Analytical Resources on October 3, 2008 at a cooler temperature of 8.2°C measured by IR thermometer. Samples were well-iced, in good condition and received within a short time of sampling. One additional container was received marked simply as "3A". The jar was logged as an additional sample and Anchor informed of the discrepancy.

Samples were logged under ARI Job NS52 for bulk analysis and pore waters for the rush samples.

Sample EB-SO01-comp-081003 is reported here under ARI Job NS89.

PNAs by SW8270

All samples and associated laboratory QC were extracted and analyzed within recommended holding times.

The initial and continuing calibrations were within method requirements. Internal standard areas were within limits.

Surrogate recoveries were within limits.

The method blank was clean at the reporting limits. The LCS/LCSD had recoveries and RPD within limits.

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U	Indicates that the target analyte was not detected at the reported concentration
*	Duplicate RPD is not within established control limits
B	Reported value is less than the CRDL but ≥ the Reporting Limit
N	Matrix Spike recovery not within established control limits
NA	Not Applicable, analyte not spiked
H	The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
L	Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U	Indicates that the target analyte was not detected at the reported concentration
*	Flagged value is not within established control limits
B	Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
J	Estimated concentration when the value is less than ARI's established reporting limits
D	The spiked compound was not detected due to sample extract dilution
NR	Spiked compound recovery is not reported due to chromatographic interference
E	Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
S	Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

---

NA	The flagged analyte was not analyzed for
NS	The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.

F Samples were frozen prior to particle size determination

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

LCS SOLUTIONS

9/27/2008

LABE	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
1	1534-5	PCB	20	MEOH	08/26/09
2	1472-3	BCOC PEST	10	ACETONE	07/20/08
3	1517-1	PEST	02/04/20	ACETONE	05/15/09
4	1515-1	LOW PEST	0.2/0.4/2	ACETONE	01/24/09
5	1537-1	EPH	1500	MECL2	08/16/09
6*	1456-3	PCP	12.5	ACETONE	04/18/09
7	1541-3	ABN	100	ACETONE	08/01/09
8	1487-2	TBT	10	MECL2	12/15/08
9	1493-3	PORE TBT	.25/.5	MECL2	12/15/08
10	1537-2	ABN ACID	100/200	MEOH	04/10/09
11	1526-1	TPHD	15000	ACETONE	06/25/09
12	1542-1	ABN BASE	200	ACETONE	07/01/09
13*	1427-3	LOW PCB	2	ACETONE	10/11/08
14	1480-2	LOW ABN ACID	10/20	MEOH	10/09/08
15*	1452-1	SIM PNA	15/75	MEOH	04/09/09
16	1502-2	DIOXANE	100	MEOH	02/20/09
17	1516-2	1248 PCB	20	ACETONE	05/07/09
18	1514-4	LOW SIM PNA	1.5/7.5	ACETONE	04/24/09
19	1517-3	AK103	7500	MECL2	12/29/08
20	1490-4	PNA	100	MEOH	01/10/09
21*	1414-4	SKY/BHT	100	MEOH	04/08/09
22	1539-1	HERB	12.5/12500	MEOH	08/31/09
23	1505-1	LOW ABN BASE	20	MEOH	03/20/09
24	1541-4	LOW ABN	10	ACETONE	08/01/09
25	1481-1	DIPHENYL	100	MEOH	07/20/08
26	1545-2	OP-PEST	25	MEOH	02/14/09
27	1495-1	STEROLS	200	MEOH	12/29/08
28	1494-1	ADD. PEST	4	ACETONE	01/23/09
29	1496-3	DECANES	100	MEOH	02/12/09
30	1497-2	EDB/DBCP	2	ACETONE	02/12/09
31	1510-3	TERPINEOL	100	MEOH	03/21/09

LCS SOLUTIONS

9/27/2008

32	1545-3	GUAIACOL	50-200	ACETONE	06/05/09
33	1522-1	RESIN ACID	250	ACETONE	06/11/09
34	1530-2	CONGENERS	1	ACETONE	07/23/09
50	1523-1	FULL RESIN	250	ACETONE	06/10/09
*=REVERIFIED SOLUTION					

SURR SOLUTIONS

9/27/2008

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
A	1540-3	ABN	100/150	MEOH	03/13/09
B	1513-1	SIM PNA	15/75	MEOH	04/15/09
C*	1443-1	SIM ABN	10/15	MEOH	04/03/09
D	1538-3	LOW PCB	0.2	ACETONE	07/31/09
E	1478-1	HERB	62.5	MEOH	09/21/08
F	1520-3	PCP	12.5	ACETONE	04/18/09
G	1534-1	1,4DIOXANE	100	MEOH	02/20/09
H	1545-1	OP-PEST	25	MEOH	02/14/09
I*	1458-1	LOW S. PNA	03/15	MEOH	06/05/09
J	1493-2	TBT-PORE	0.25	MECL2	12/15/08
K	1538-1	MED PCB	20	ACETONE	07/31/09
L	1486-5	TBT	10	MECL2	12/15/08
M	1518-3	EPH	1500	MECL2	05/10/09
N	1538-2	PCB	2	ACETONE	07/31/09
O	1544-3	TPH	450	MECL2	09/24/09
P	1544-2	HCID	2250	MECL2	09/24/09
Q	1497-3	EDB	2	ACETONE	02/12/09
R	1521-4	RESIN ACID	250	ACETONE	06/11/09
S	*RE-VER	FIED SOLUT	ION		
T					
U					
V					
W					
X					
Y					
Z					

Data Summary Package

prepared
for

ANCHOR ENVIRONMENTAL, LLC.

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NS89

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS
Page 1 of 1

Sample ID: EB-SO01-COMP-081003
SAMPLE

Lab Sample ID: NS89A
LIMS ID: 08-26492
Matrix: Soil
Data Release Authorized:
Reported: 10/30/08

QC Report No: NS89-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/14/08
Date Analyzed: 10/29/08 15:55
Instrument/Analyst: NT4/PK
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 7.98 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 14.7%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	63	< 63 U
91-57-6	2-Methylnaphthalene	63	< 63 U
90-12-0	1-Methylnaphthalene	63	< 63 U
208-96-8	**Acenaphthylene**	**63**	**220**
83-32-9	Acenaphthene	63	< 63 U
86-73-7	Fluorene	63	< 63 U
85-01-8	**Phenanthrene**	**63**	**820**
120-12-7	**Anthracene**	**63**	**120**
206-44-0	**Fluoranthene**	**63**	**1,600**
129-00-0	**Pyrene**	**63**	**2,300**
56-55-3	**Benzo(a)anthracene**	**63**	**1,000**
218-01-9	**Chrysene**	**63**	**1,300**
205-99-2	**Benzo(b)fluoranthene**	**63**	**990**
207-08-9	**Benzo(k)fluoranthene**	**63**	**860**
50-32-8	**Benzo(a)pyrene**	**63**	**1,500**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**63**	**800**
53-70-3	**Dibenz(a,h)anthracene**	**63**	**210**
191-24-2	**Benzo(g,h,i)perylene**	**63**	**790**
132-64-9	Dibenzofuran	63	< 63 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	67.6%
2-Fluorobiphenyl	66.4%

ANALYTICAL RESOURCES INCORPORATED

SW8270 PNA SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: NS89-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02

Client ID	TER	FBP	TOT OUT
MB-101408	83.6%	76.0%	0
LCS-101408	73.6%	71.2%	0
LCSD-101408	70.4%	67.6%	0
EB-SO01-COMP-081003	67.6%	66.4%	0

	LCS/MB LIMITS	QC LIMITS
(TER) = d14-p-Terphenyl	(30-160)	(30-160)
(FBP) = 2-Fluorobiphenyl	(30-160)	(30-160)

Prep Method: SW3546
Log Number Range: 08-26492 to 08-26492

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS
Page 1 of 1

Sample ID: LCS-101408
LCS/LCSD

Lab Sample ID: LCS-101408
LIMS ID: 08-26492
Matrix: Soil
Data Release Authorized:
Reported: 10/30/08

QC Report No: NS89-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: 10/03/08

Date Extracted LCS/LCSD: 10/14/08

Date Analyzed LCS: 10/29/08 11:21
LCSD: 10/29/08 11:55
Instrument/Analyst LCS: NT4/PK
LCSD: NT4/PK

Sample Amount LCS: 7.50 g
LCSD: 7.50 g
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Naphthalene	1180	1670	70.7%	1190	1670	71.3%	0.8%
2-Methylnaphthalene	1360	1670	81.4%	1390	1670	83.2%	2.2%
1-Methylnaphthalene	1190	1670	71.3%	1210	1670	72.5%	1.7%
Acenaphthylene	1240	1670	74.3%	1230	1670	73.7%	0.8%
Acenaphthene	1140	1670	68.3%	1140	1670	68.3%	0.0%
Fluorene	1200	1670	71.9%	1220	1670	73.1%	1.7%
Phenanthrene	1290	1670	77.2%	1250	1670	74.9%	3.1%
Anthracene	1350	1670	80.8%	1310	1670	78.4%	3.0%
Fluoranthene	1370	1670	82.0%	1350	1670	80.8%	1.5%
Pyrene	1290	1670	77.2%	1240	1670	74.3%	4.0%
Benzo(a)anthracene	1370	1670	82.0%	1300	1670	77.8%	5.2%
Chrysene	1290	1670	77.2%	1320	1670	79.0%	2.3%
Benzo(b)fluoranthene	1330	1670	79.6%	1370	1670	82.0%	3.0%
Benzo(k)fluoranthene	1310	1670	78.4%	1180	1670	70.7%	10.4%
Benzo(a)pyrene	1360	1670	81.4%	1300	1670	77.8%	4.5%
Indeno(1,2,3-cd)pyrene	1320	1670	79.0%	1220	1670	73.1%	7.9%
Dibenz(a,h)anthracene	1360	1670	81.4%	1270	1670	76.0%	6.8%
Benzo(g,h,i)perylene	1290	1670	77.2%	1230	1670	73.7%	4.8%
Dibenzofuran	1100	1670	65.9%	1100	1670	65.9%	0.0%

Semivolatile Surrogate Recovery

	LCS	LCSD
d14-p-Terphenyl	73.6%	70.4%
2-Fluorobiphenyl	71.2%	67.6%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

NS89MBS1

Lab Name: ANALYTICAL RESOURCES, INC
Client: ANCHOR

ARI Job No: NS89
Project: EDDON BOATYARD

Lab File ID: 102901
Date Extracted: 10/14/08

Instrument ID: NT4
Date Analyzed: 10/29/08

Matrix: SOLID
Time Analyzed: 1047

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	NS89LCSS1	NS89LCSS1	102902	10/29/08
02	NS89LCSDS1	NS89LCSDS1	102903	10/29/08
03	EB-SO01-COMP-081	NS89A	102910	10/29/08
04				
05				
06				
07				
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COMMENTS:

FORM IV SV

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS
Page 1 of 1

Sample ID: MB-101408
METHOD BLANK

Lab Sample ID: MB-101408
LIMS ID: 08-26492
Matrix: Soil
Data Release Authorized:
Reported: 10/30/08

QC Report No: NS89-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 10/14/08
Date Analyzed: 10/29/08 10:47
Instrument/Analyst: NT4/PK
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 7.50 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	67	< 67 U
91-57-6	2-Methylnaphthalene	67	< 67 U
90-12-0	1-Methylnaphthalene	67	< 67 U
208-96-8	Acenaphthylene	67	< 67 U
83-32-9	Acenaphthene	67	< 67 U
86-73-7	Fluorene	67	< 67 U
85-01-8	Phenanthrene	67	< 67 U
120-12-7	Anthracene	67	< 67 U
206-44-0	Fluoranthene	67	< 67 U
129-00-0	Pyrene	67	< 67 U
56-55-3	Benzo(a)anthracene	67	< 67 U
218-01-9	Chrysene	67	< 67 U
205-99-2	Benzo(b)fluoranthene	67	< 67 U
207-08-9	Benzo(k)fluoranthene	67	< 67 U
50-32-8	Benzo(a)pyrene	67	< 67 U
193-39-5	Indeno(1,2,3-cd)pyrene	67	< 67 U
53-70-3	Dibenz(a,h)anthracene	67	< 67 U
191-24-2	Benzo(g,h,i)perylene	67	< 67 U
132-64-9	Dibenzofuran	67	< 67 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	83.6%
2-Fluorobiphenyl	76.0%

TOTAL SOLIDS

Extractions Total Solids-extts
Data By: Jim Hawk
Created: 10/ 8/08

Worklist: 2368
Analyst: NTC
Comments:

	ARI ID / CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1.	NS89A 08-26492 EB-SO01-COMP-081003	1.16	12.54	10.87	85.3	NR

Laboratory Data Package

prepared
for

ANCHOR ENVIRONMENTAL, LLC.

Project: Eddon Boatyard, 040289-02

ARI JOB NO: NS89

prepared
by

Analytical Resources, Inc.

PNA Analysis
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC.

PROJECT: EDDON BOATYARD, 040289-02

ARI JOB NO: NS89

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

SW8270 PNA SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: NS89-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02

Client ID	TER	FBP	TOT OUT
MB-101408	83.6%	76.0%	0
LCS-101408	73.6%	71.2%	0
LCSD-101408	70.4%	67.6%	0
EB-SO01-COMP-081003	67.6%	66.4%	0

	LCS/MB LIMITS	QC LIMITS
(TER) = d14-p-Terphenyl	(30-160)	(30-160)
(FBP) = 2-Fluorobiphenyl	(30-160)	(30-160)

Prep Method: SW3546
Log Number Range: 08-26492 to 08-26492

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS
Page 1 of 1

Sample ID: LCS-101408
LCS/LCSD

Lab Sample ID: LCS-101408
LIMS ID: 08-26492
Matrix: Soil
Data Release Authorized:
Reported: 10/30/08

QC Report No: NS89-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: 10/03/08

Date Extracted LCS/LCSD: 10/14/08

Date Analyzed LCS: 10/29/08 11:21
LCSD: 10/29/08 11:55
Instrument/Analyst LCS: NT4/PK
LCSD: NT4/PK
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount LCS: 7.50 g
LCSD: 7.50 g
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Alumina Cleanup: No

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Naphthalene	1180	1670	70.7%	1190	1670	71.3%	0.8%
2-Methylnaphthalene	1360	1670	81.4%	1390	1670	83.2%	2.2%
1-Methylnaphthalene	1190	1670	71.3%	1210	1670	72.5%	1.7%
Acenaphthylene	1240	1670	74.3%	1230	1670	73.7%	0.8%
Acenaphthene	1140	1670	68.3%	1140	1670	68.3%	0.0%
Fluorene	1200	1670	71.9%	1220	1670	73.1%	1.7%
Phenanthrene	1290	1670	77.2%	1250	1670	74.9%	3.1%
Anthracene	1350	1670	80.8%	1310	1670	78.4%	3.0%
Fluoranthene	1370	1670	82.0%	1350	1670	80.8%	1.5%
Pyrene	1290	1670	77.2%	1240	1670	74.3%	4.0%
Benzo(a)anthracene	1370	1670	82.0%	1300	1670	77.8%	5.2%
Chrysene	1290	1670	77.2%	1320	1670	79.0%	2.3%
Benzo(b)fluoranthene	1330	1670	79.6%	1370	1670	82.0%	3.0%
Benzo(k)fluoranthene	1310	1670	78.4%	1180	1670	70.7%	10.4%
Benzo(a)pyrene	1360	1670	81.4%	1300	1670	77.8%	4.5%
Indeno(1,2,3-cd)pyrene	1320	1670	79.0%	1220	1670	73.1%	7.9%
Dibenz(a,h)anthracene	1360	1670	81.4%	1270	1670	76.0%	6.8%
Benzo(g,h,i)perylene	1290	1670	77.2%	1230	1670	73.7%	4.8%
Dibenzofuran	1100	1670	65.9%	1100	1670	65.9%	0.0%

Semivolatile Surrogate Recovery

	LCS	LCSD
d14-p-Terphenyl	73.6%	70.4%
2-Fluorobiphenyl	71.2%	67.6%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

NS89MBS1

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS89 Project: EDDON BOATYARD

Lab File ID: 102901 Date Extracted: 10/14/08

Instrument ID: NT4 Date Analyzed: 10/29/08

Matrix: SOLID Time Analyzed: 1047

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	NS89LCSS1	NS89LCSS1	102902	10/29/08
02	NS89LCSDS1	NS89LCSDS1	102903	10/29/08
03	EB-SO01-COMP-081	NS89A	102910	10/29/08
04				
05				
06				
07				
08				
09				
10				
11				
12				
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COMMENTS:

FORM IV SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

Instrument ID: NT4 Project: EDDON BOATYARD

DFTPP Injection Date: 10/27/08 DFTPP Injection Time: 1143

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	63.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	69.8
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	60.5
197	Less than 1.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	27.6
365	Greater than 0.75% of mass 198	4.23
441	Present, but less than mass 443	10.8
442	40.0 - 110.0% of mass 198	74.4
443	15.0 - 24.0% of mass 442	15.9 (21.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		ABN 25	IC102701	10/27/08	1143
02		ABN 80	IC102702	10/27/08	1217
03		ABN 1	IC102703	10/27/08	1251
04		ABN 40	IC102704	10/27/08	1325
05		ABN 5	IC102705	10/27/08	1359
06		ABN 10	IC102706	10/27/08	1433
07					
08					
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22					

FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

Instrument ID: NT4 Project: EDDON BOATYARD

DFTPP Injection Date: 10/29/08 DFTPP Injection Time: 1003

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	66.5
68	Less than 2.0% of mass 69	0.2 (0.3)1
69	Mass 69 relative abundance	74.7
70	Less than 2.0% of mass 69	0.7 (1.0)1
127	25.0 - 75.0% of mass 198	61.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	28.2
365	Greater than 0.75% of mass 198	4.12
441	Present, but less than mass 443	10.9
442	40.0 - 110.0% of mass 198	73.1
443	15.0 - 24.0% of mass 442	14.7 (20.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		ABN 25	CC1029	10/29/08	1003
02	NS89MBS1	NS89MBS1	102901	10/29/08	1047
03	NS89LCSS1	NS89LCSS1	102902	10/29/08	1121
04	NS89LCSDS1	NS89LCSDS1	102903	10/29/08	1155
05	EB-SO01-COMP-081	NS89A	102910	10/29/08	1555
06					
07					
08					
09					
10					
11					
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14					
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17					
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FORM V SV

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS89 Project: EDDON BOATYARD

Cont. Calib. ID: CC1029 Date Analyzed: 10/29/08

Instrument ID: NT4 Time Analyzed: 1003

		IS1(NPT) AREA	#	RT	#	IS2(ANT) AREA	#	RT	#	IS3(PHN) AREA	#	RT	#
	12 HOUR STD	254175		7.75		120792		10.53		171750		12.79	
	UPPER LIMIT	508350		8.25		241584		11.03		343500		13.29	
	LOWER LIMIT	127088		7.25		60396		10.03		85875		12.29	
	CLIENT SAMP. NO.												
01	NS89MBS1	192018		7.74		94502		10.53		135930		12.78	
02	NS89LCSS1	205102		7.75		98446		10.53		141589		12.79	
03	NS89LCSDS1	221835		7.74		110742		10.53		166003		12.78	
04	EB-SO01-COMP	148792		7.74		78912		10.52		119308		12.78	
05													
06													
07													
08													
09													
10													
11													
12													
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14													
15													
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17													
18													
19													
20													
21													
22													

IS1 (NPT) = Naphthalene-d8
IS2 (ANT) = Acenaphthene-d10
IS3 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS89 Project: EDDON BOATYARD

Cont. Calib. ID: CC1029 Date Analyzed: 10/29/08

Instrument ID: NT4 Time Analyzed: 1003

		IS4(CRY) AREA	#	RT	#	IS5(PRY) AREA	#	RT	#	AREA	#	RT	#
	12 HOUR STD	179812		16.91		249052		18.97					
	UPPER LIMIT	359624		17.41		498104		19.47					
	LOWER LIMIT	89906		16.41		124526		18.47					
	CLIENT SAMP. NO.												
01	NS89MBS1	134047		16.91		191278		18.96					
02	NS89LCSS1	146973		16.91		201500		18.96					
03	NS89LCSDS1	175877		16.91		238006		18.96					
04	EB-SO01-COMP	137360		16.91		181777		18.97					
05													
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS4 (CRY) = Chrysene-d12
IS5 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

PNA Analysis
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC.

PROJECT: EDDON BOATYARD, 040289-02

ARI JOB NO: NS89

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS
Page 1 of 1

Sample ID: EB-SO01-COMP-081003
SAMPLE

Lab Sample ID: NS89A
LIMS ID: 08-26492
Matrix: Soil
Data Release Authorized:
Reported: 10/30/08

QC Report No: NS89-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/14/08
Date Analyzed: 10/29/08 15:55
Instrument/Analyst: NT4/PK
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 7.98 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 14.7%

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	63	< 63 U
91-57-6	2-Methylnaphthalene	63	< 63 U
90-12-0	1-Methylnaphthalene	63	< 63 U
208-96-8	**Acenaphthylene**	**63**	**220**
83-32-9	Acenaphthene	63	< 63 U
86-73-7	Fluorene	63	< 63 U
85-01-8	**Phenanthrene**	**63**	**820**
120-12-7	**Anthracene**	**63**	**120**
206-44-0	**Fluoranthene**	**63**	**1,600**
129-00-0	**Pyrene**	**63**	**2,300**
56-55-3	**Benzo(a)anthracene**	**63**	**1,000**
218-01-9	**Chrysene**	**63**	**1,300**
205-99-2	**Benzo(b)fluoranthene**	**63**	**990**
207-08-9	**Benzo(k)fluoranthene**	**63**	**860**
50-32-8	**Benzo(a)pyrene**	**63**	**1,500**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**63**	**800**
53-70-3	**Dibenz(a,h)anthracene**	**63**	**210**
191-24-2	**Benzo(g,h,i)perylene**	**63**	**790**
132-64-9	Dibenzofuran	63	< 63 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	67.6%
2-Fluorobiphenyl	66.4%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20081029.b/102910.d
Lab Smp Id: NS89A Client Smp ID: EB-SO01-COMP-081003
Inj Date : 29-OCT-2008 15:55
Operator : LJR/VTS Inst ID: nt4.i
Smp Info : NS89A
Misc Info : 08-26492
Comment : 1ul Injection
Method : /chem3/nt4.i/20081029.b/SW846.m
Meth Date : 29-Oct-2008 16:32 peter Quant Type: ISTD
Cal Date : 27-OCT-2008 14:33 Cal File: ic102706.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	9.36000	Weight of sample extracted (g)
M	14.70000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
* 27 Naphthalene-d8	136	7.743	7.749	(1.000)	148792	20.0000		
28 Naphthalene	128	7.772	7.778	(1.004)	7346	0.95093	59.55	LAL
32 2-Methylnaphthalene	141	Compound Not Detected.						
105 1-methylnaphthalene	141	Compound Not Detected.						
$ 36 2-Fluorobiphenyl	172	9.576	9.575	(0.910)	89491	16.6161	1041	
40 Acenaphthylene	152	10.269	10.275	(0.976)	26781	3.53667	221.5	
* 42 Acenaphthene-d10	164	10.521	10.533	(1.000)	78912	20.0000		
44 Acenaphthene	153	Compound Not Detected.						
46 Dibenzofuran	168	Compound Not Detected.						
49 Fluorene	166	11.356	11.367	(1.079)	4676	0.91629	57.38	LAL
* 59 Phenanthrene-d10	188	12.783	12.789	(1.000)	119308	20.0000		
60 Phenanthrene	178	12.812	12.824	(1.002)	96623	13.0660	818.3	
61 Anthracene	178	12.883	12.889	(1.008)	14071	1.95247	122.3	
64 Fluoranthene	202	14.669	14.663	(1.147)	189738	26.0046	1629	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	65 Pyrene	202	14.986	14.980	(0.886)	326591	36.5072	2286
$	66 Terphenyl-d14	244	15.415	15.409	(0.911)	99082	16.8692	1056
	68 Benzo(a)anthracene	228	16.895	16.895	(0.999)	149018	16.4033	1027
*	69 Chrysene-d12	240	16.913	16.913	(1.000)	137360	20.0000	
	71 Chrysene	228	16.948	16.948	(1.002)	183846	20.7814	1301
	74 Benzo(b)fluoranthene	252	18.493	18.481	(0.975)	179457	15.7533	986.5(M)
	75 Benzo(k)fluoranthene	252	18.493	18.510	(0.975)	151546	13.7331	860.0(M)
	76 Benzo(a)pyrene	252	18.892	18.886	(0.996)	233108	23.8128	1491
*	77 Perylene-d12	264	18.969	18.969	(1.000)	181777	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	20.273	20.273	(1.069)	140789	12.7741	800.0
	79 Dibenzo(a,h)anthracene	278	20.320	20.326	(1.071)	37491	3.33258	208.7
	80 Benzo(g,h,i)perylene	276	20.543	20.543	(1.083)	149054	12.6316	791.0

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 102910.d
Lab Smp Id: NS89A
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem3/nt4.i/20081029.b/SW846.m
Misc Info: 08-26492

Calibration Date: 29-OCT-2008
Calibration Time: 10:03
Client Smp ID: EB-SO01-COMP-081
Level: LOW
Sample Type: Soil

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	254175	127088	508350	148792	-41.46
42 Acenaphthene-d10	120792	60396	241584	78912	-34.67
59 Phenanthrene-d10	171750	85875	343500	119308	-30.53
69 Chrysene-d12	179812	89906	359624	137360	-23.61
77 Perylene-d12	249052	124526	498104	181777	-27.01

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	7.75	7.25	8.25	7.74	-0.07
42 Acenaphthene-d10	10.53	10.03	11.03	10.52	-0.11
59 Phenanthrene-d10	12.79	12.29	13.29	12.78	-0.04
69 Chrysene-d12	16.91	16.41	17.41	16.91	0.00
77 Perylene-d12	18.97	18.47	19.47	18.97	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: NS89A
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pna.sub
Method File: /chem3/nt4.i/20081029.b/SW846.m
Misc Info: 08-26492

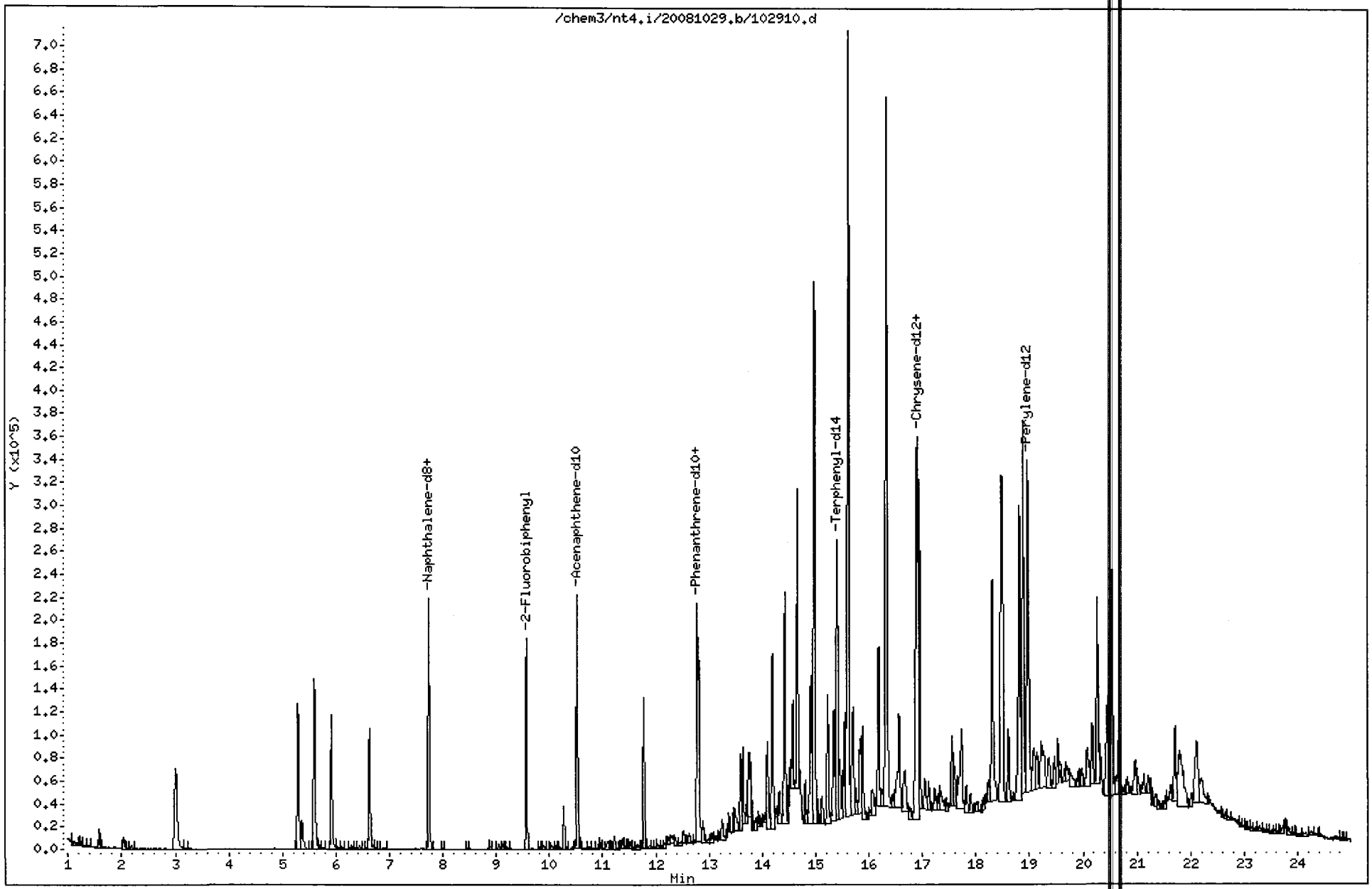
Client SDG: NS89
Fraction: SV
Client Smp ID: EB-SO01-COMP-081003
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	1566	1041	66.46	30-160
$ 66 Terphenyl-d14	1566	1056	67.48	30-123

0034

Data File: /chem3/nt4.i/20081029.b/102910.d
Date : 29-OCT-2008 15:55
Client ID: EB-SO01-COMP-081003
Sample Info: NS89A
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt4.i
Operator: LJR/VTS
Column diameter: 0.32



Data File: /chem3/nt4.i/20081029.b/102910.d

Date : 29-OCT-2008 15:55

Client ID: EB-S001-COMP-081003

Instrument: nt4.i

Sample Info: NS89A

Volume Injected (uL): 1.0

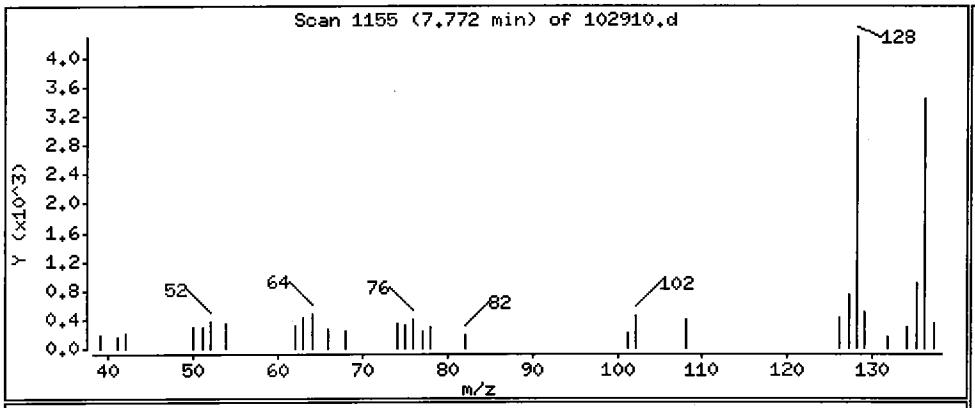
Operator: LJR/VTS

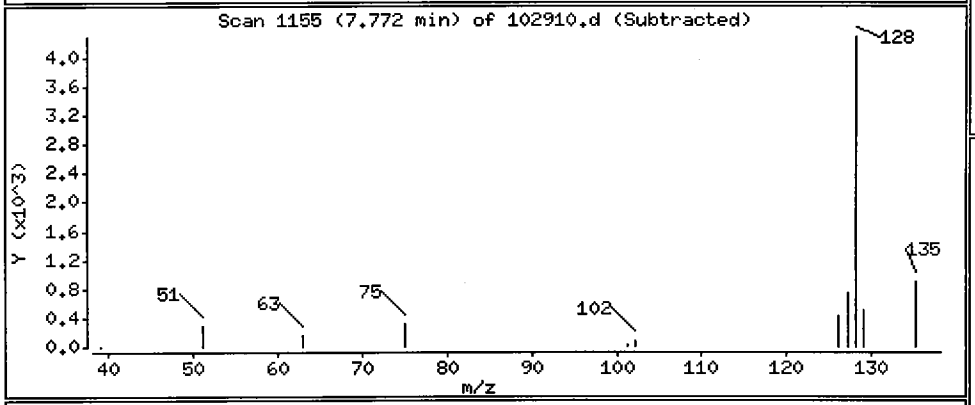
Column phase: ZB-5

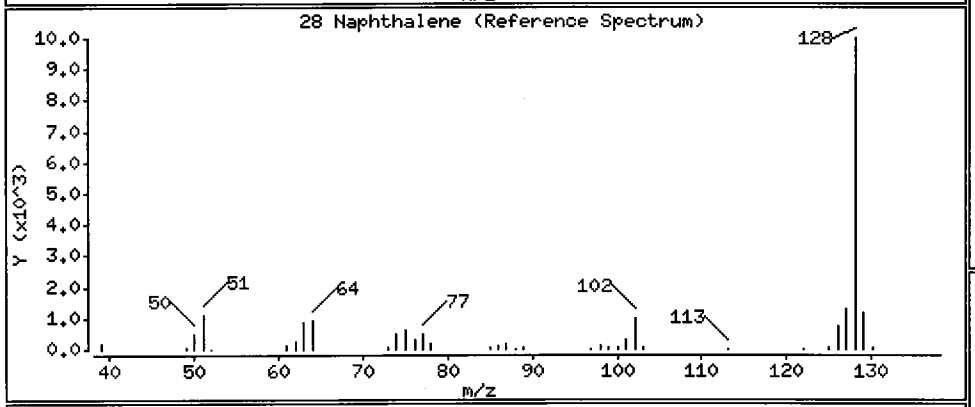
Column diameter: 0.32

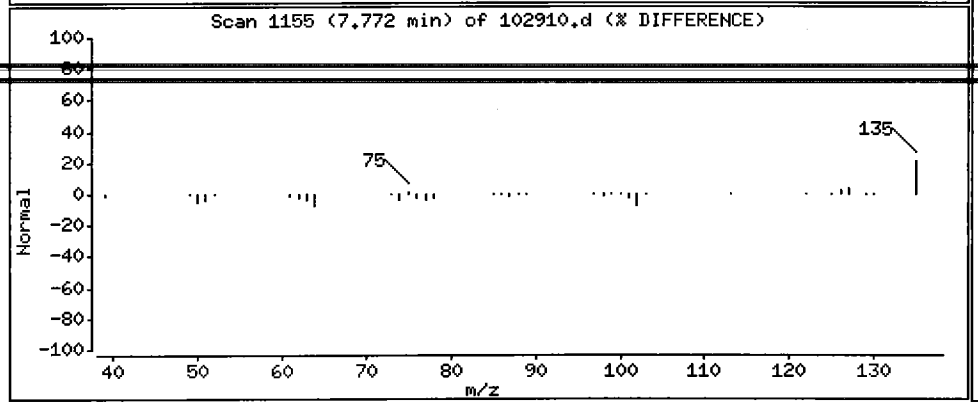
28 Naphthalene

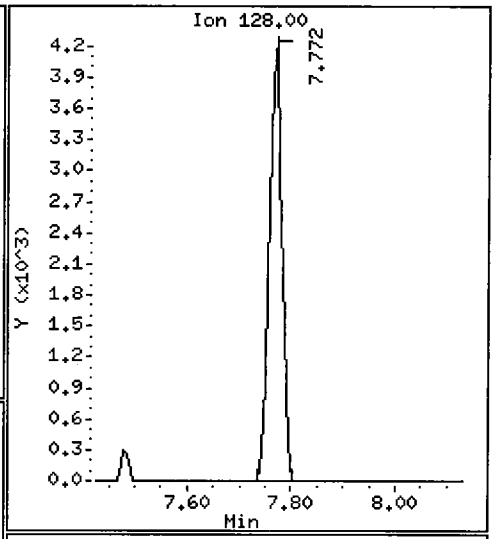
Concentration: 59.55 ug/kg

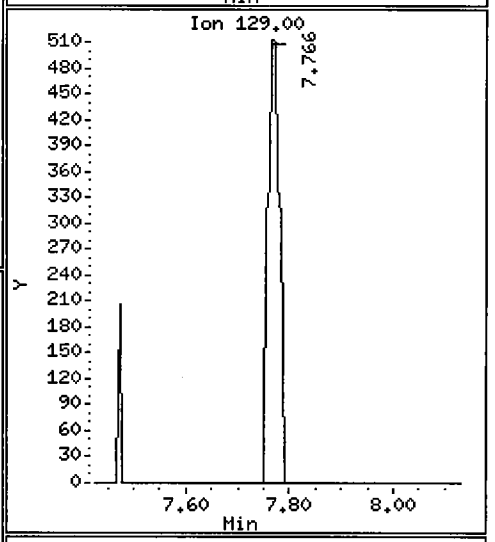


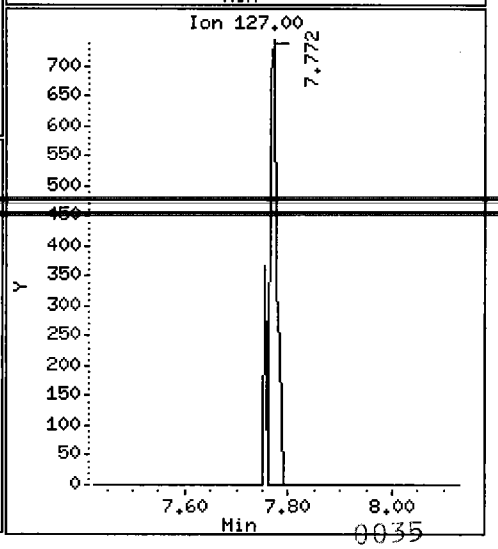












Data File: /chem3/nt4.i/20081029.b/102910.d

Date : 29-OCT-2008 15:55

Client ID: EB-S001-COMP-081003

Instrument: nt4.i

Sample Info: NS89A

Volume Injected (uL): 1.0

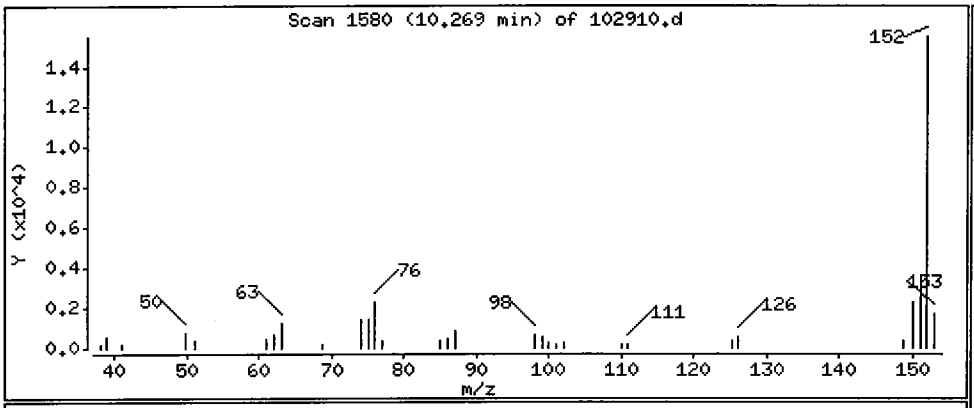
Operator: LJR/VTS

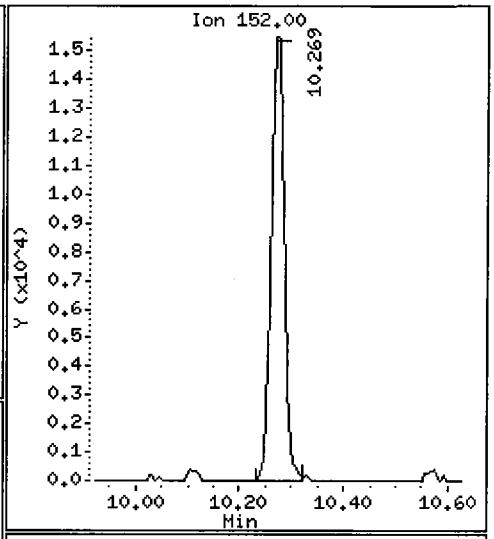
Column phase: ZB-5

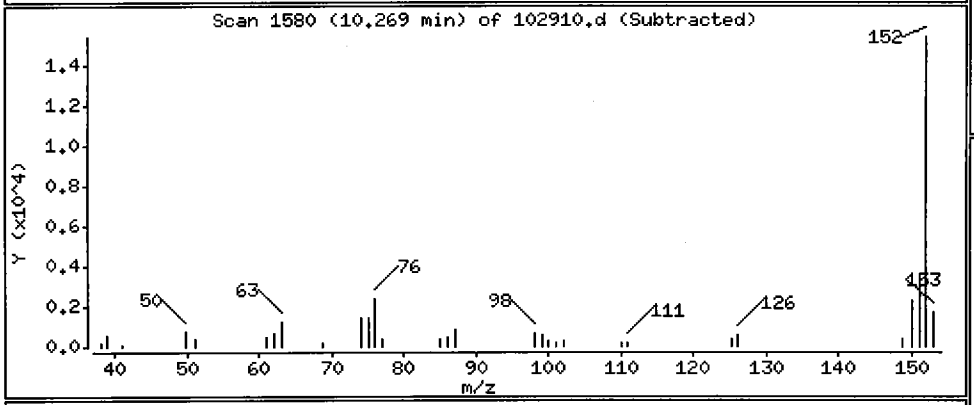
Column diameter: 0.32

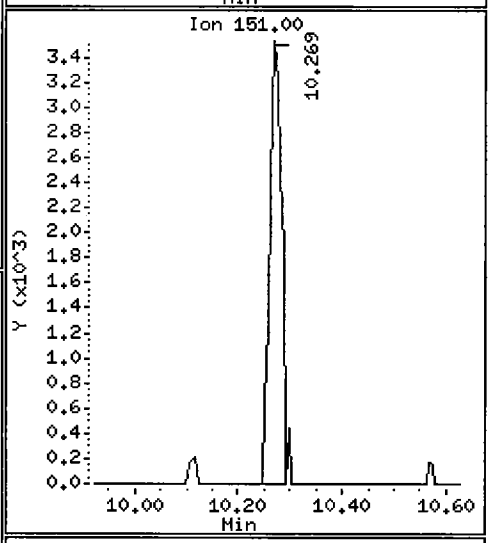
40 Acenaphthylene

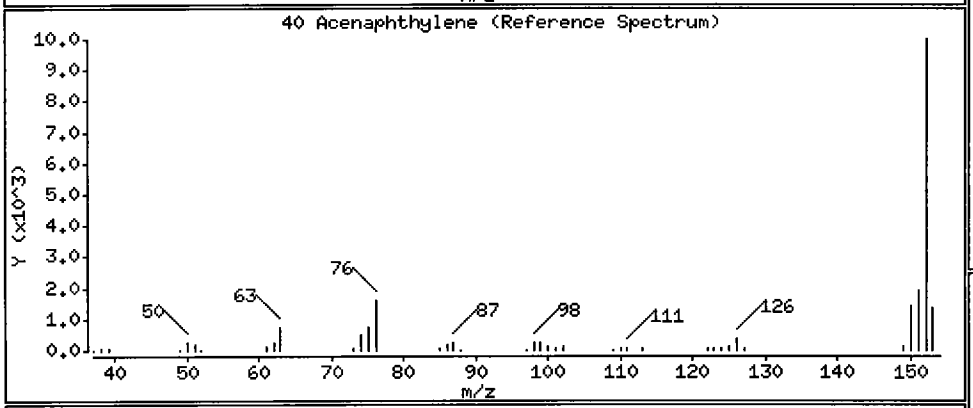
Concentration: 221.5 ug/kg

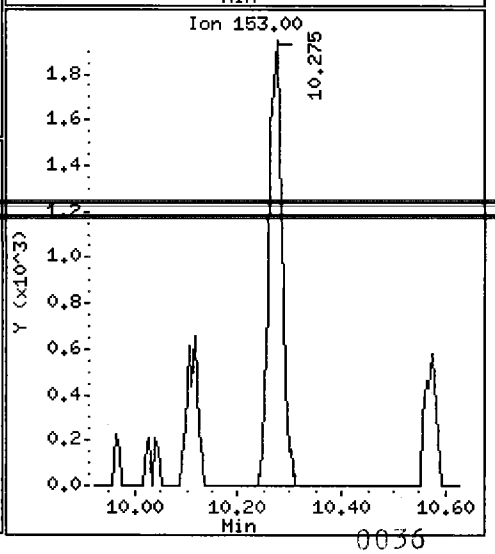


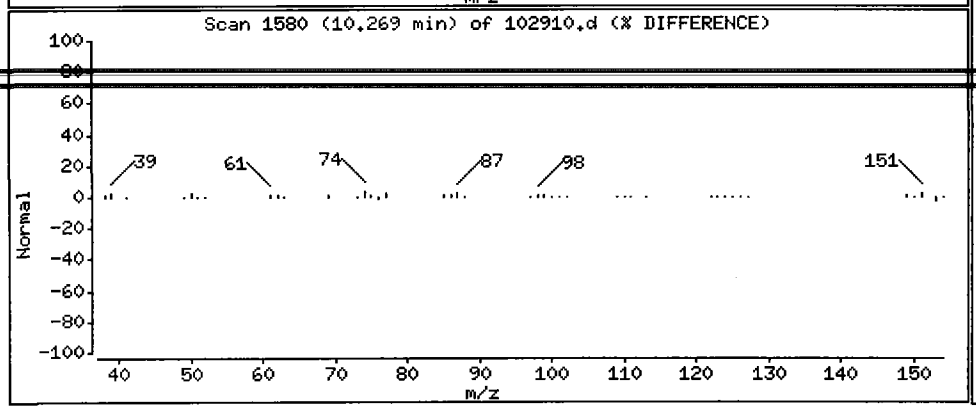












Data File: /chem3/nt4.i/20081029.b/102910.d

Date : 29-OCT-2008 15:55

Client ID: EB-S001-COMP-081003

Instrument: nt4.i

Sample Info: NS89A

Volume Injected (uL): 1.0

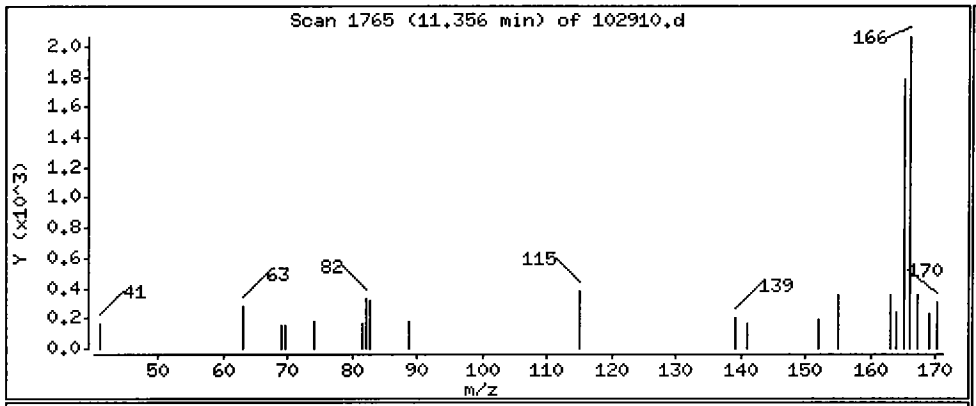
Operator: LJR/VTS

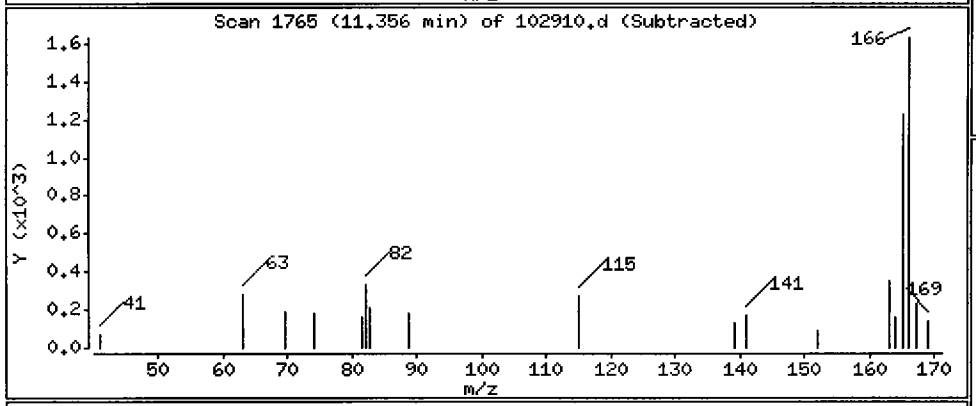
Column phase: ZB-5

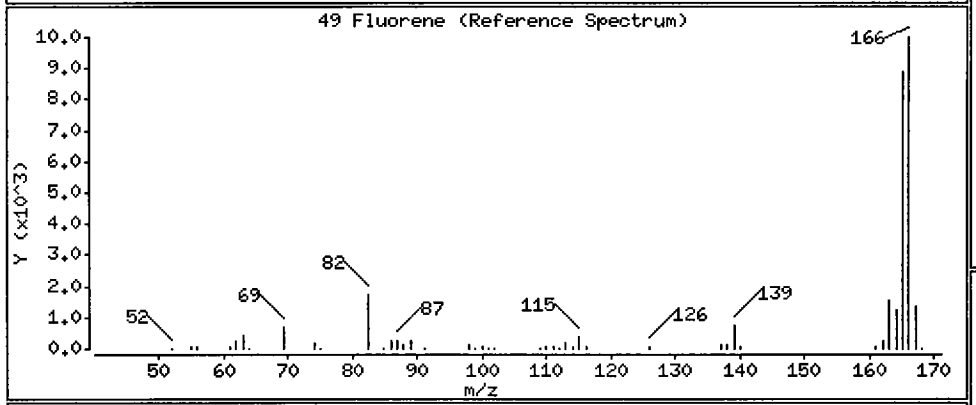
Column diameter: 0.32

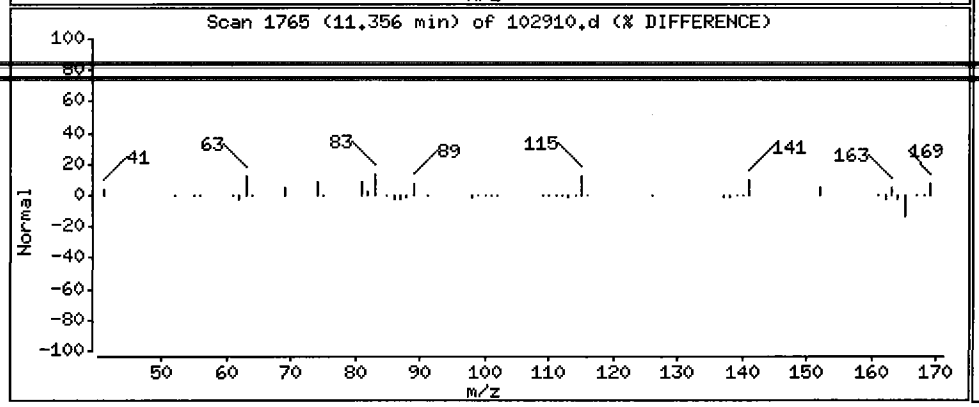
49 Fluorene

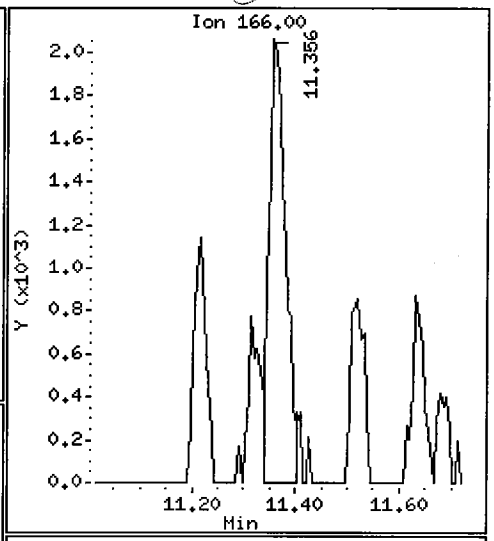
Concentration: 57.38 ug/kg

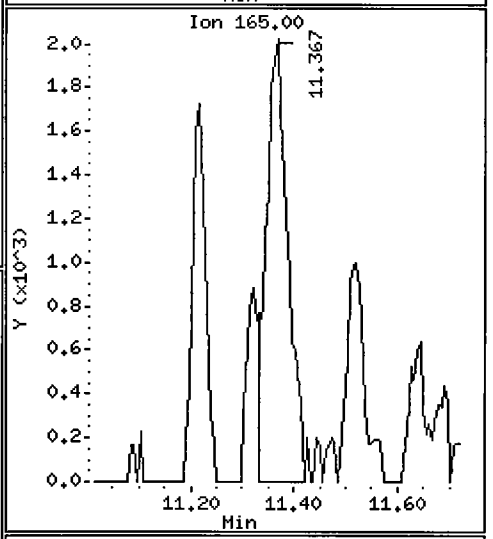


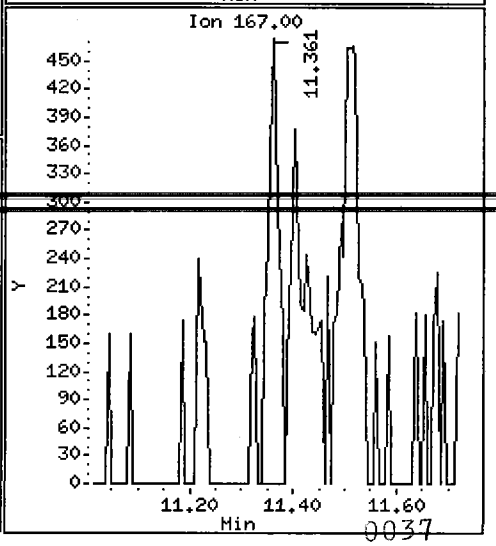












Data File: /chem3/nt4.i/20081029.b/102910.d

Date : 29-OCT-2008 15:55

Client ID: EB-S001-COMP-081003

Instrument: nt4.i

Sample Info: NS89A

Volume Injected (uL): 1.0

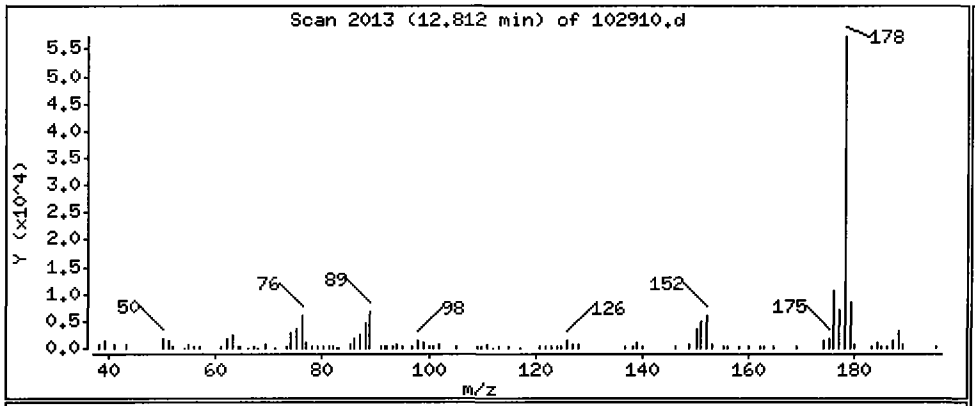
Operator: LJR/VTS

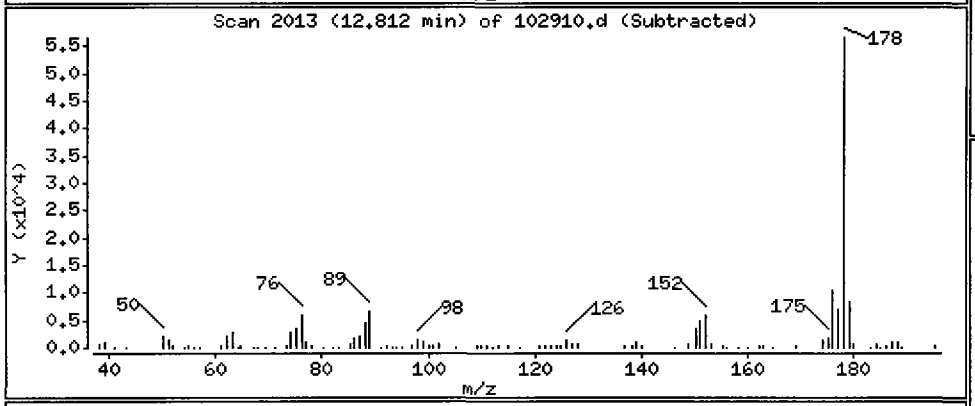
Column phase: ZB-5

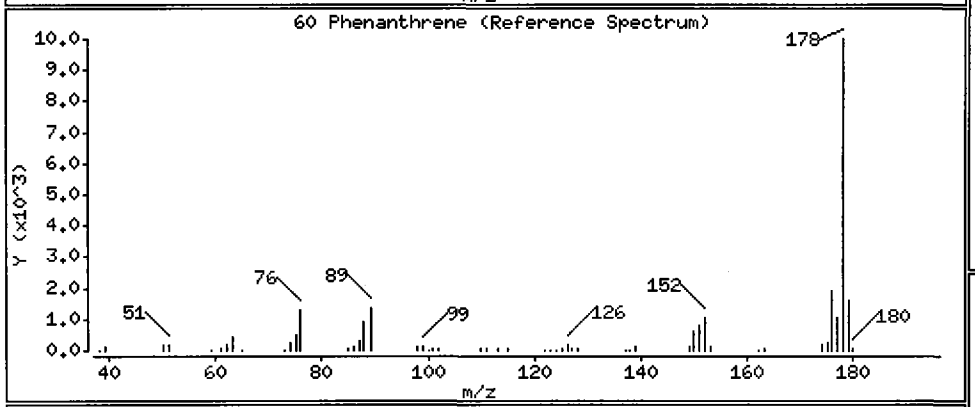
Column diameter: 0.32

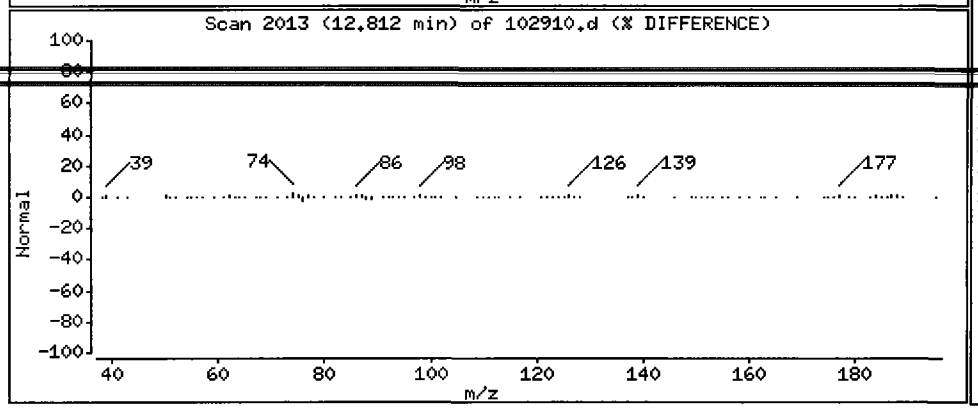
60 Phenanthrene

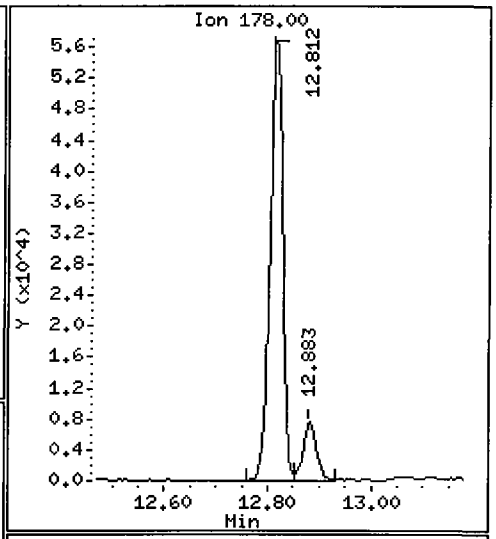
Concentration: 818.3 ug/kg

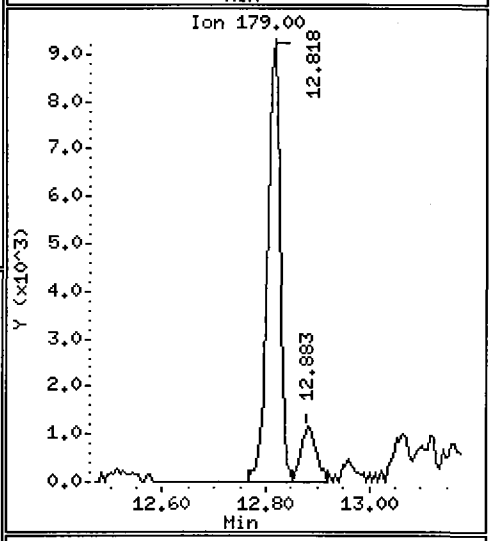


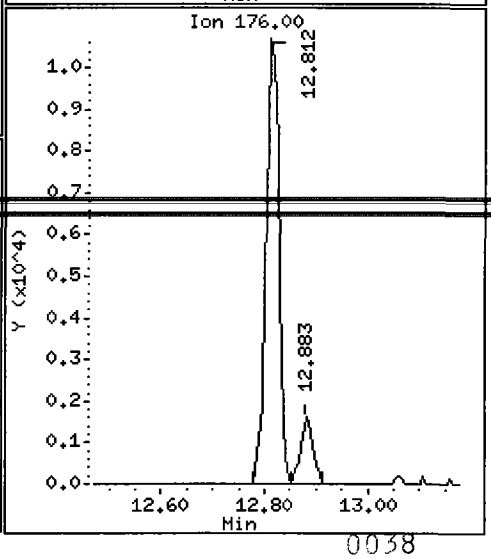












Data File: /chem3/nt4.i/20081029.b/102910.d

Date : 29-OCT-2008 15:55

Client ID: EB-S001-COMP-081003

Instrument: nt4.i

Sample Info: NS89A

Volume Injected (uL): 1.0

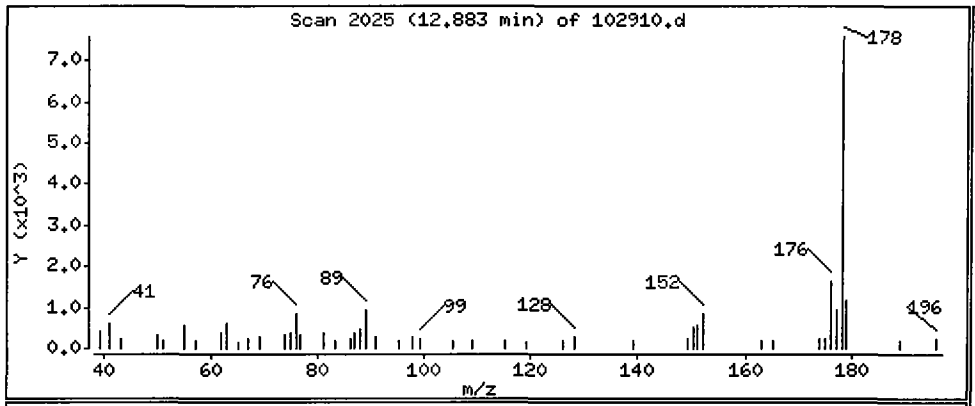
Operator: LJR/VTS

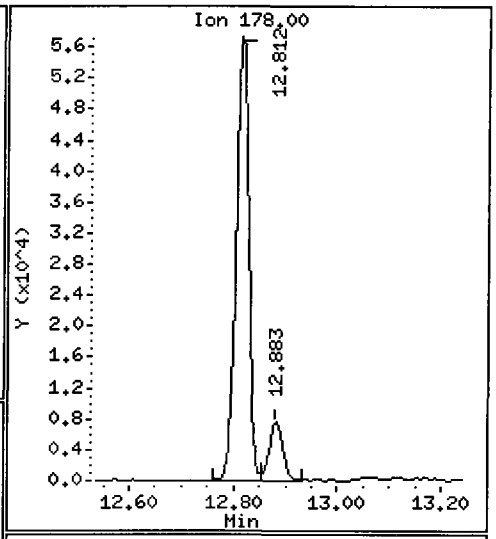
Column phase: ZB-5

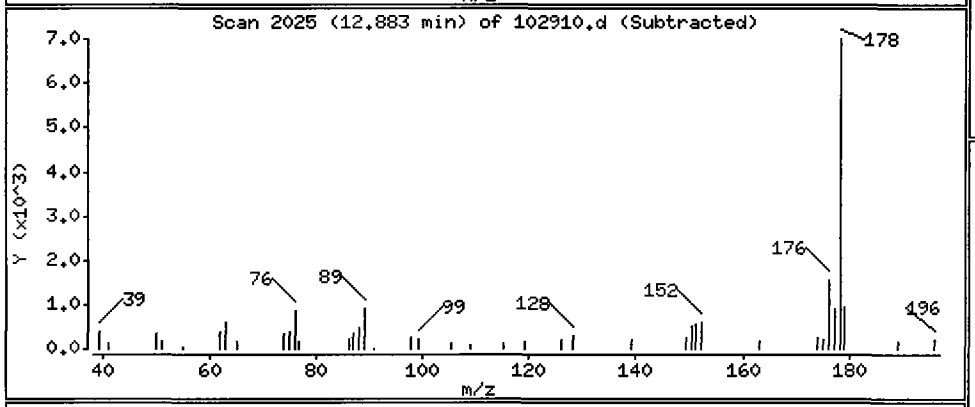
Column diameter: 0.32

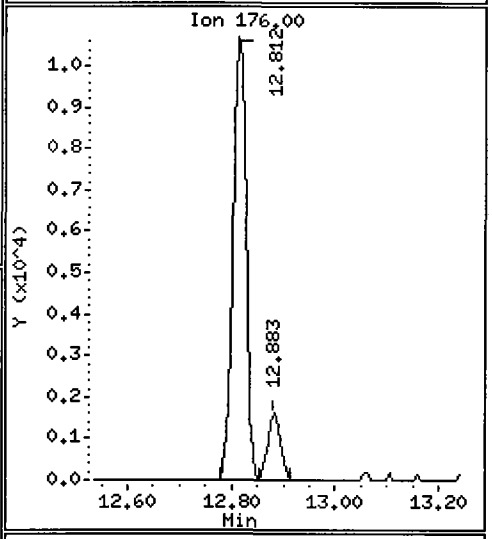
61 Anthracene

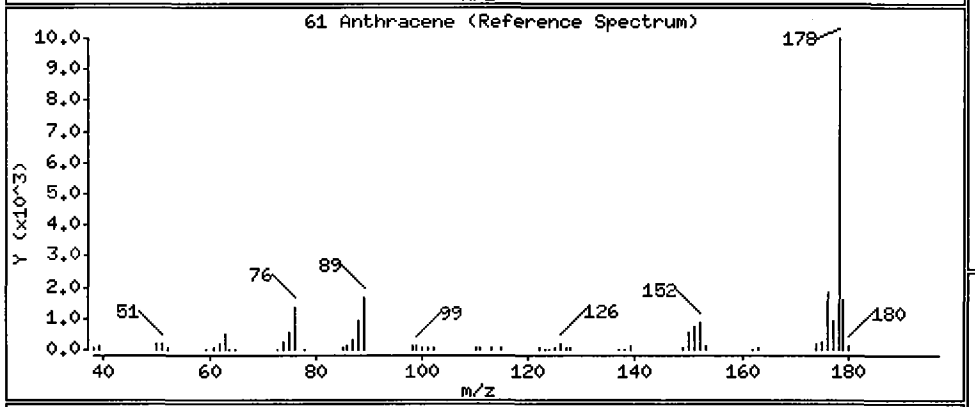
Concentration: 122.3 ug/kg

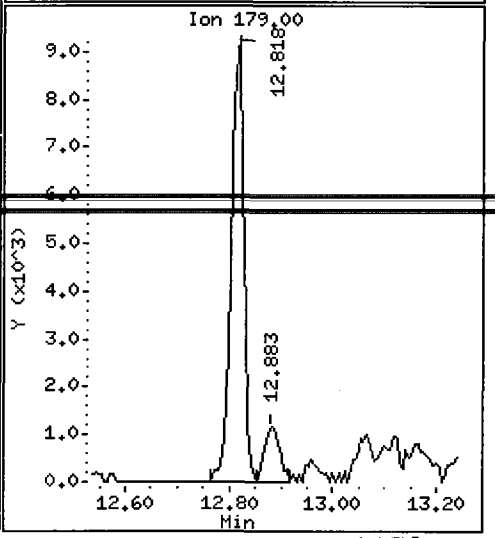


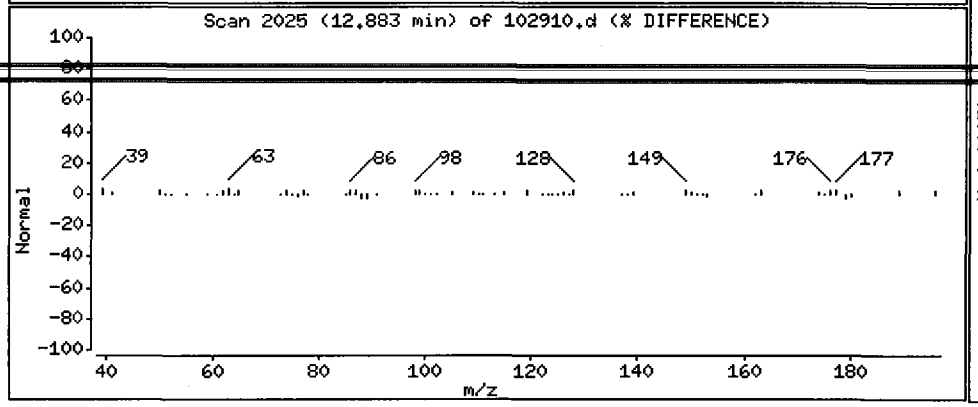












Data File: /chem3/nt4.i/20081029.b/102910.d

Date : 29-OCT-2008 15:55

Client ID: EB-S001-COMP-081003

Instrument: nt4.i

Sample Info: NS89A

Volume Injected (uL): 1.0

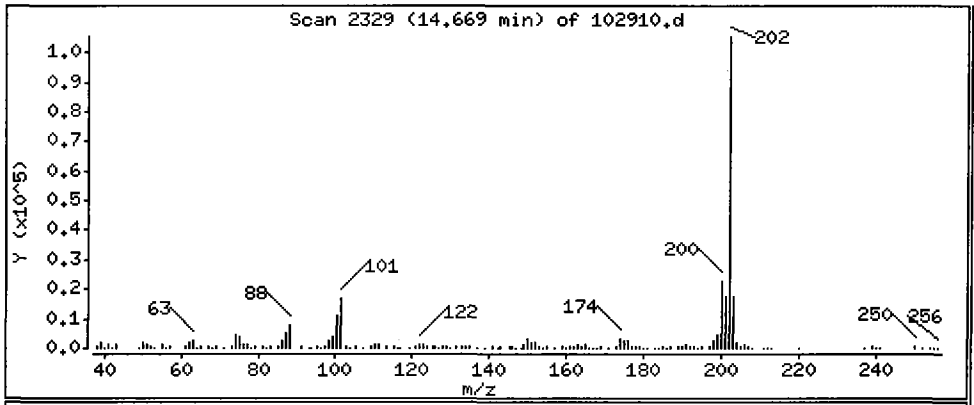
Operator: LJR/VTS

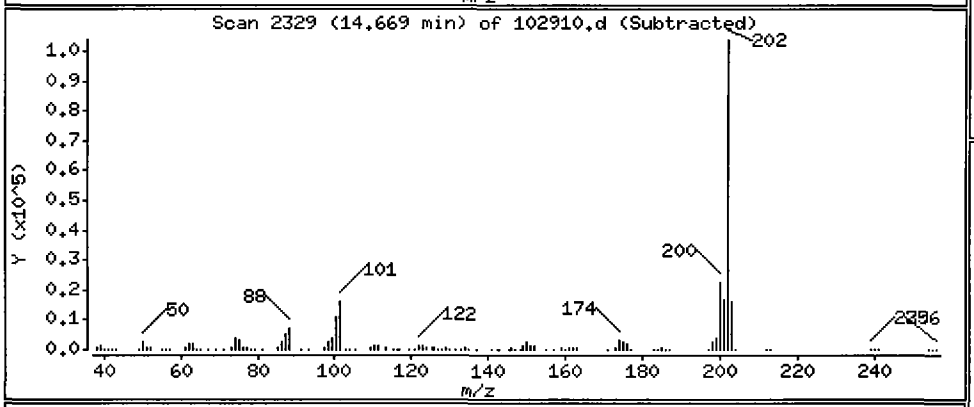
Column phase: ZB-5

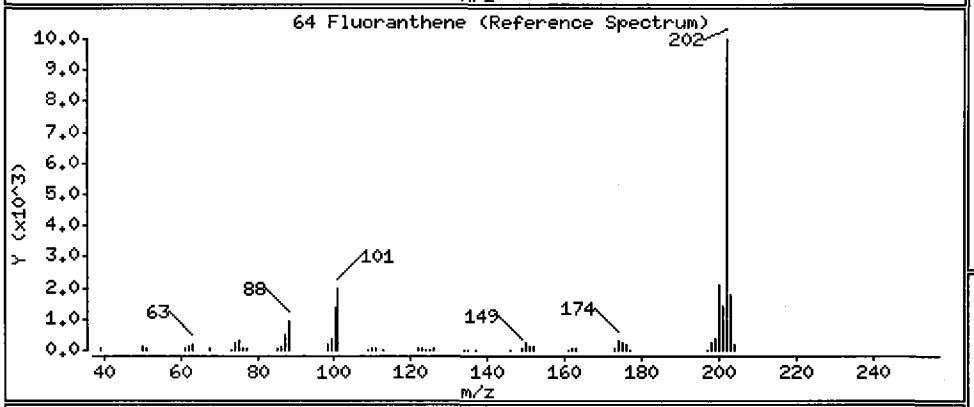
Column diameter: 0.32

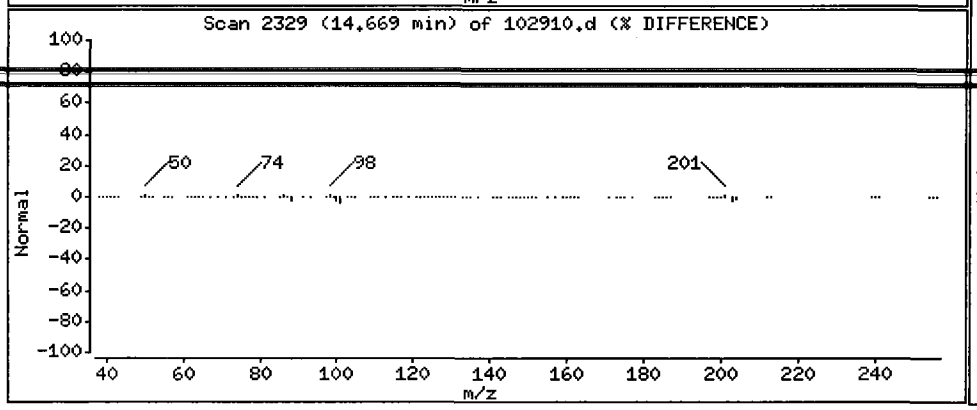
64 Fluoranthene

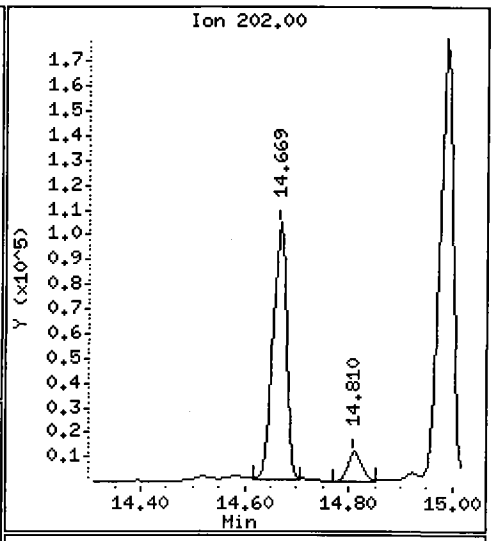
Concentration: 1629 ug/kg

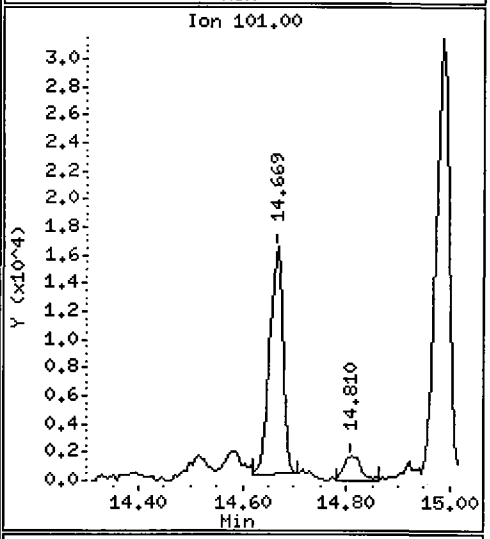


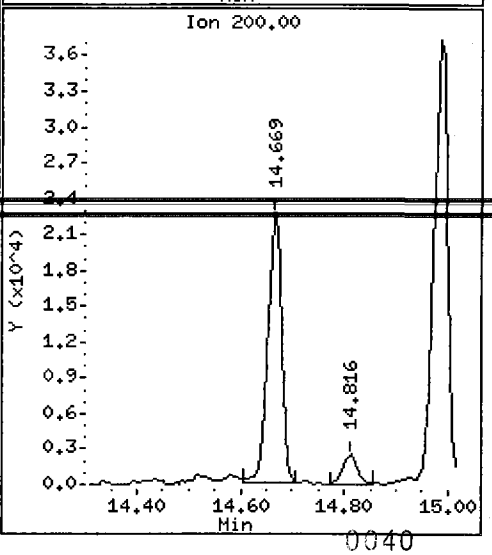












Data File: /chem3/nt4.i/20081029.b/102910.d

Date : 29-OCT-2008 15:55

Client ID: EB-S001-COMP-081003

Instrument: nt4.i

Sample Info: NS89A

Volume Injected (uL): 1.0

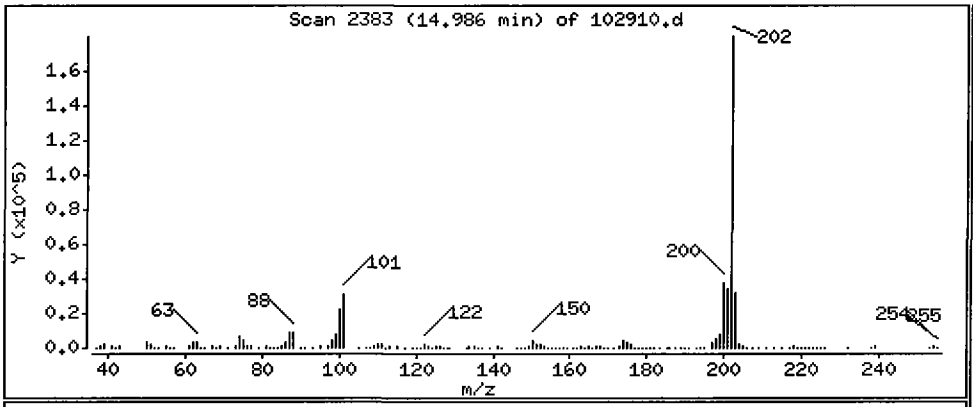
Operator: LJR/VTS

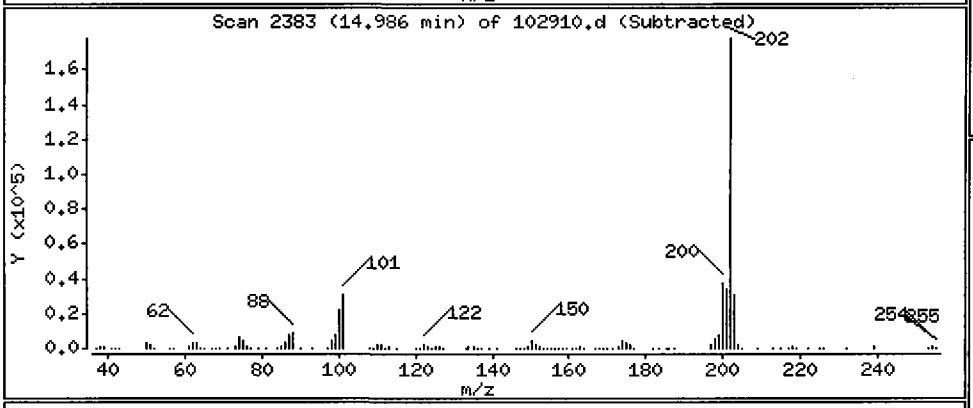
Column phase: ZB-5

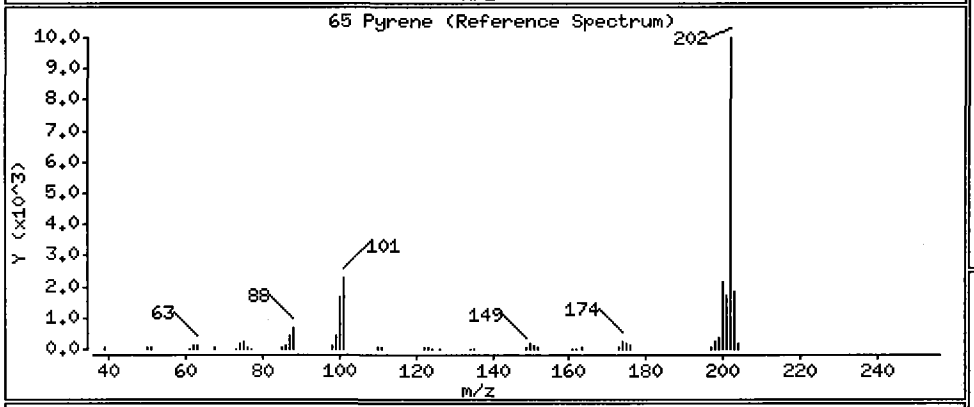
Column diameter: 0.32

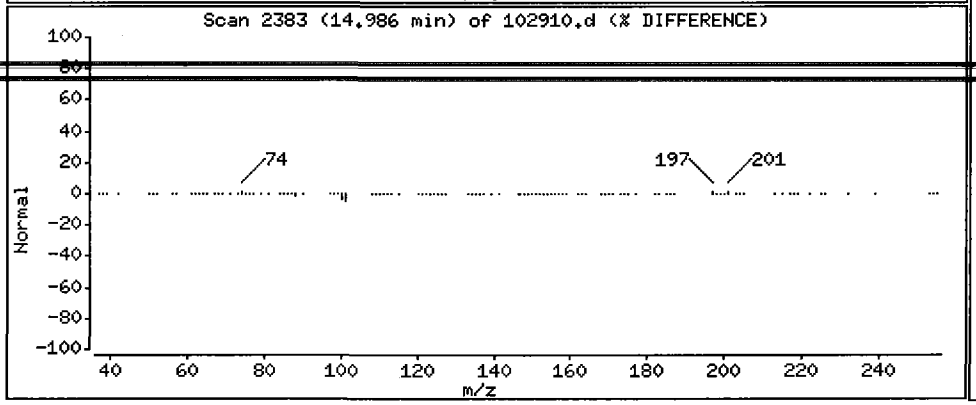
65 Pyrene

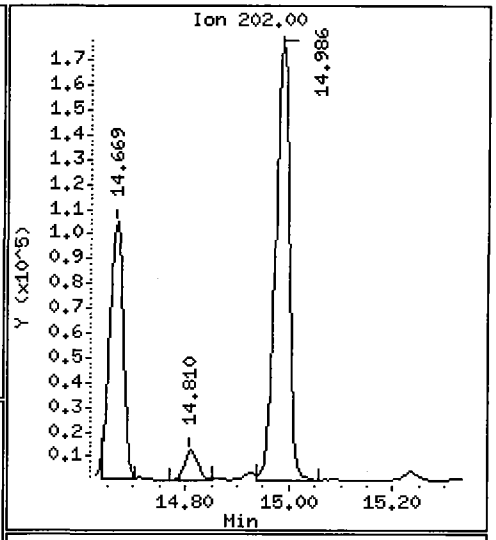
Concentration: 2286 ug/kg

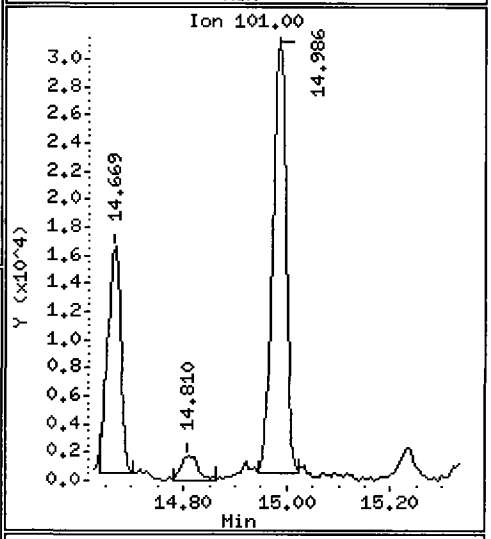


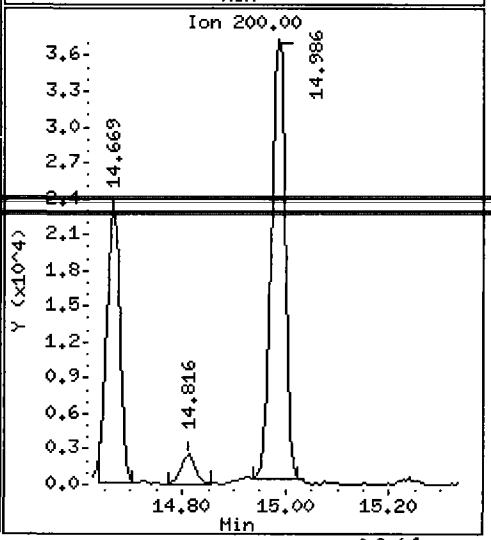












Data File: /chem3/nt4.i/20081029.b/102910.d

Date : 29-OCT-2008 15:55

Client ID: EB-S001-COMP-081003

Instrument: nt4.i

Sample Info: NS89A

Volume Injected (uL): 1.0

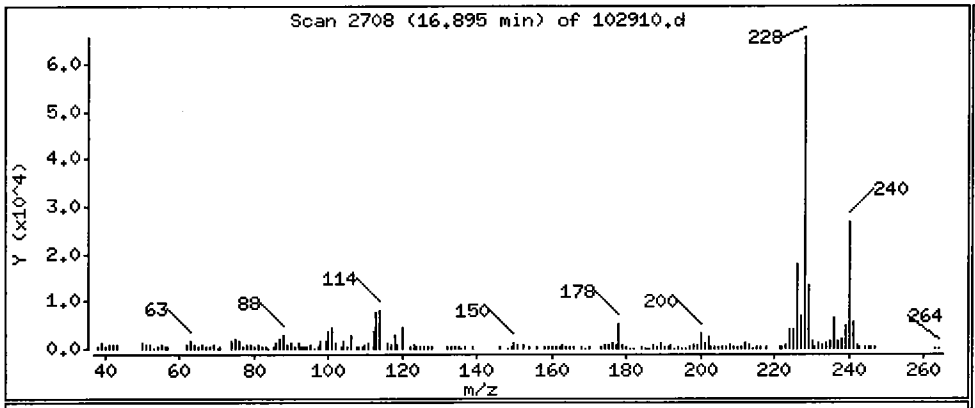
Operator: LJR/VTS

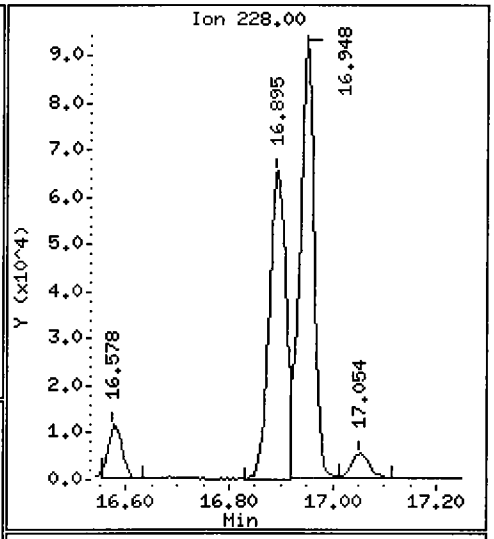
Column phase: ZB-5

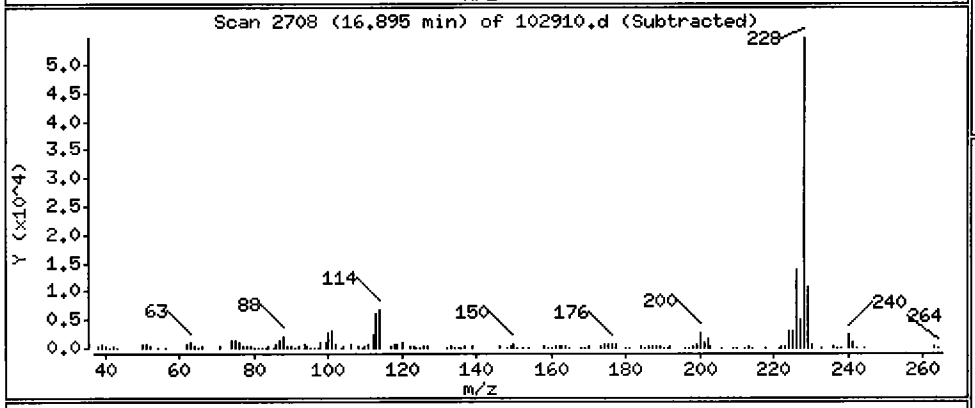
Column diameter: 0.32

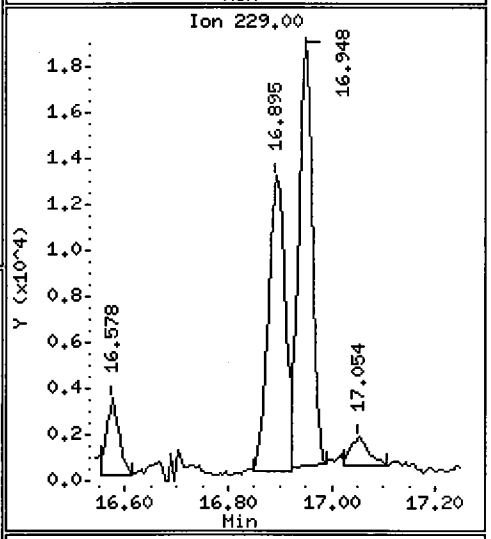
68 Benzo(a)anthracene

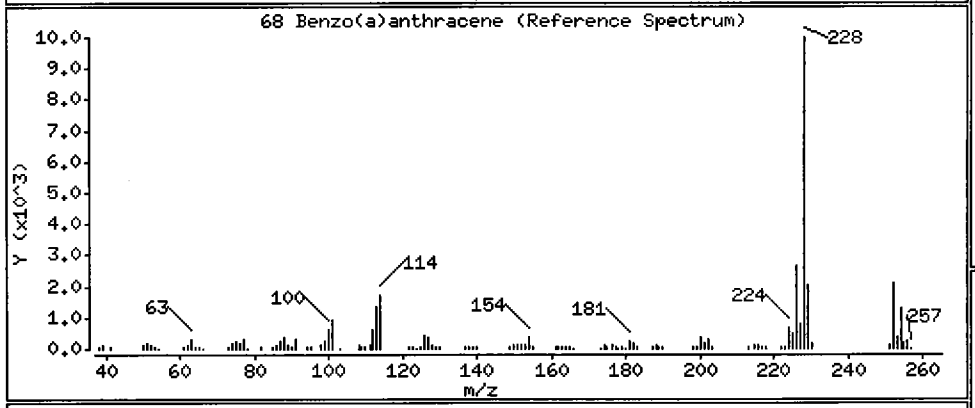
Concentration: 1027 ug/kg

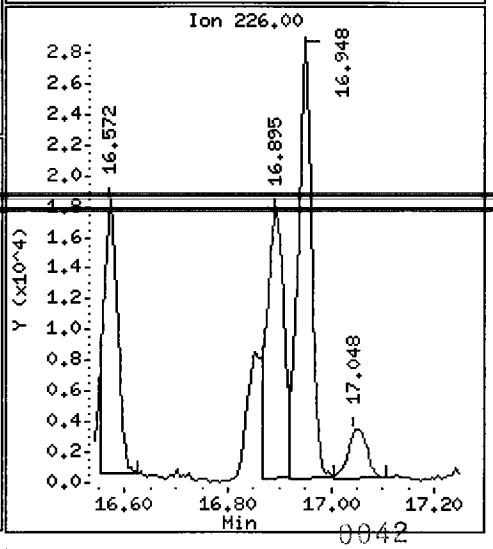


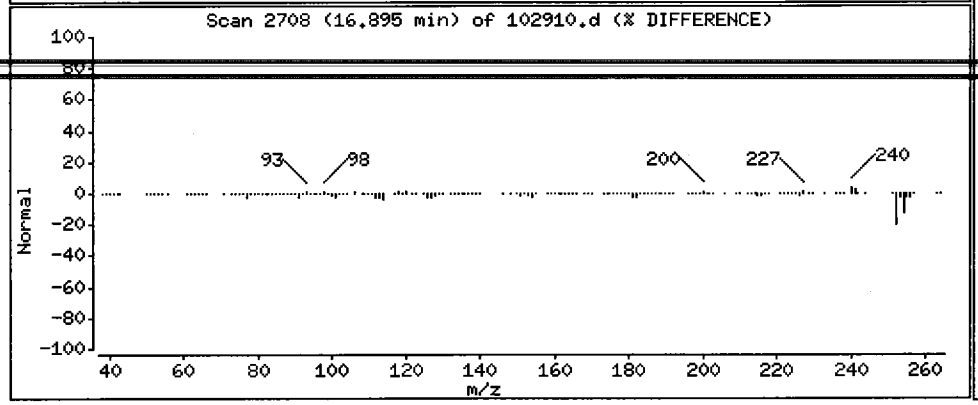












Data File: /chem3/nt4.i/20081029.b/102910.d

Date : 29-OCT-2008 15:55

Client ID: EB-S001-COMP-081003

Instrument: nt4.i

Sample Info: NS89A

Volume Injected (uL): 1.0

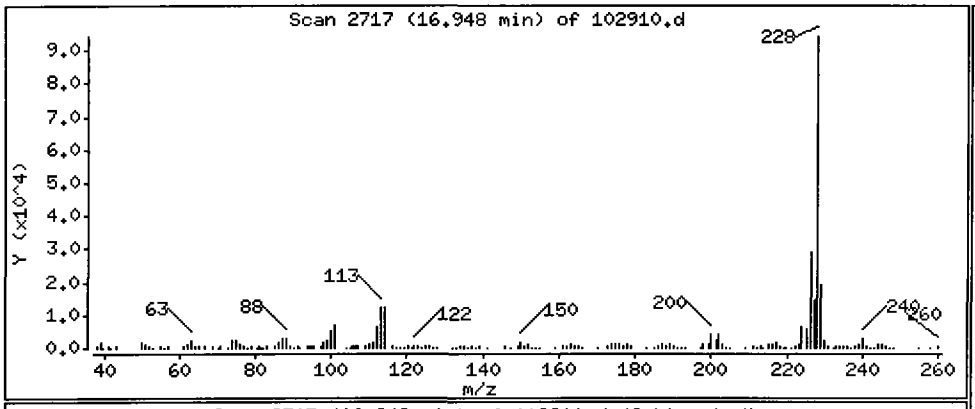
Operator: LJR/VTS

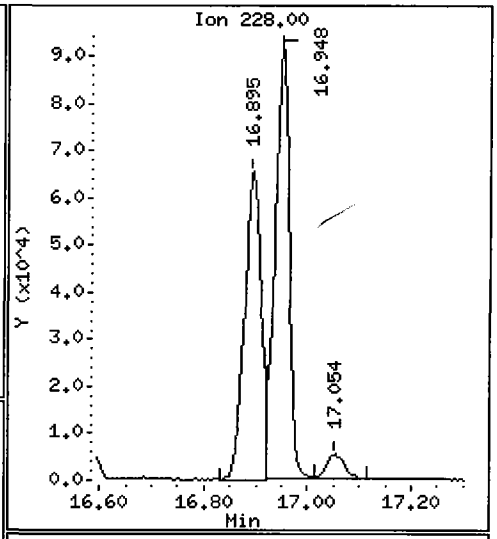
Column phase: ZB-5

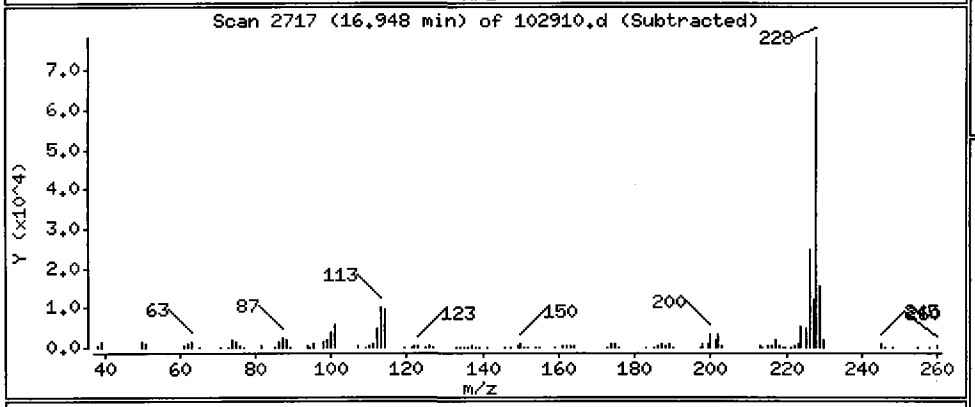
Column diameter: 0.32

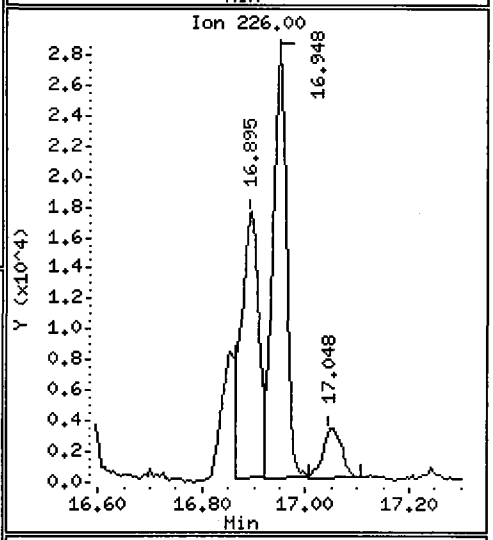
71 Chrysene

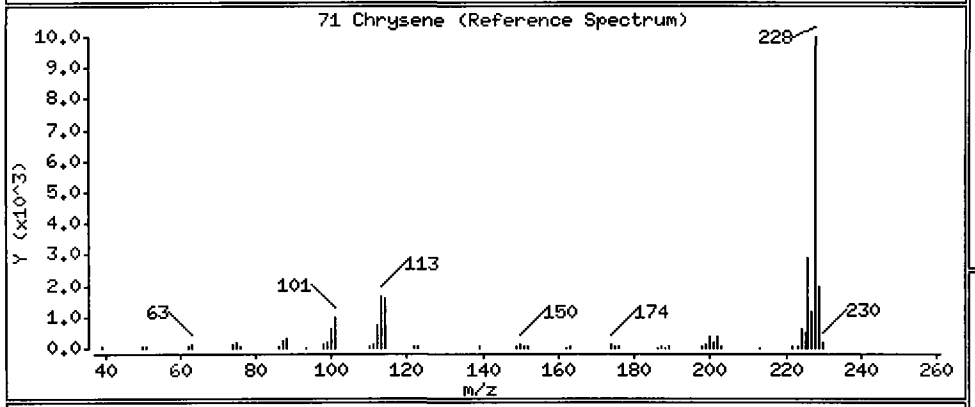
Concentration: 1301 ug/kg

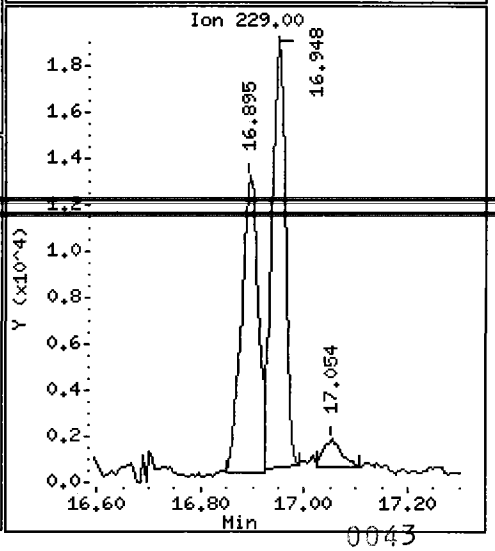


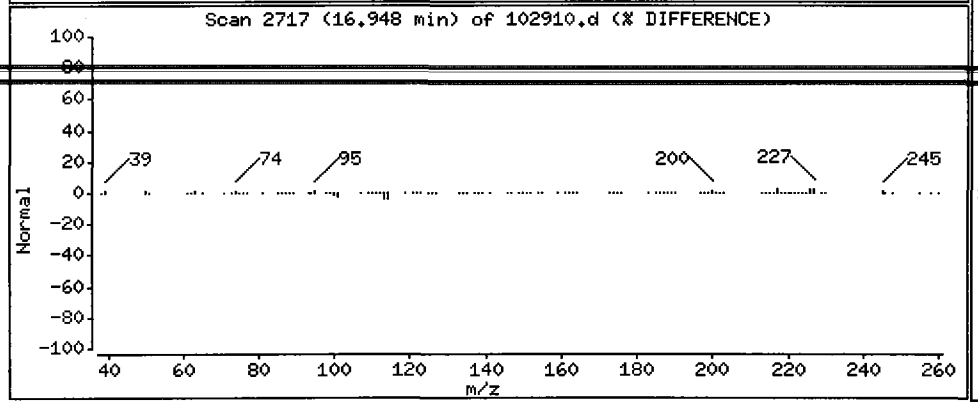












Data File: /chem3/nt4.i/20081029.b/102910.d

Date : 29-OCT-2008 15:55

Client ID: EB-S001-COMP-081003

Instrument: nt4.i

Sample Info: NS89A

Volume Injected (uL): 1.0

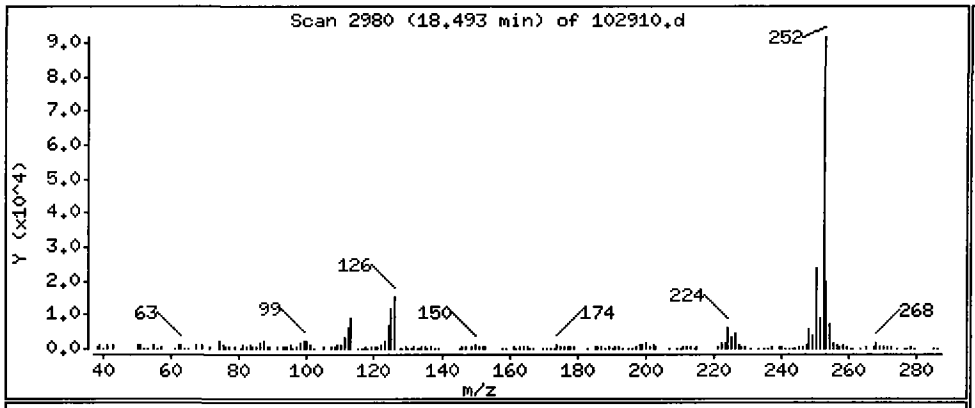
Operator: LJR/VTS

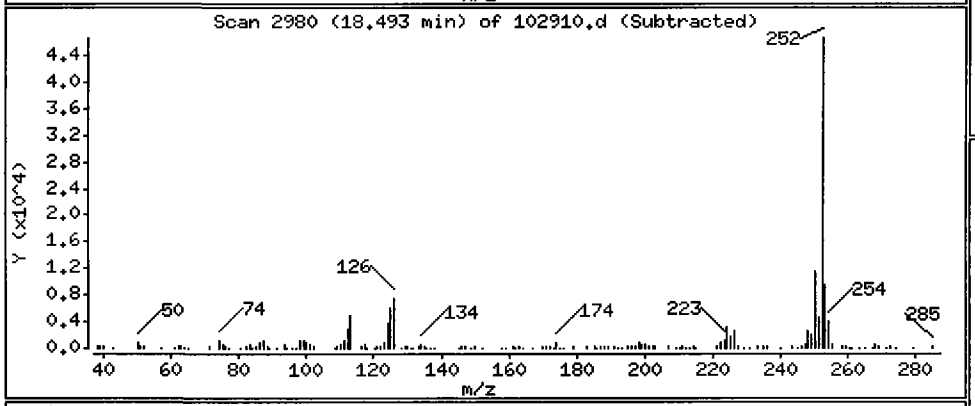
Column phase: ZB-5

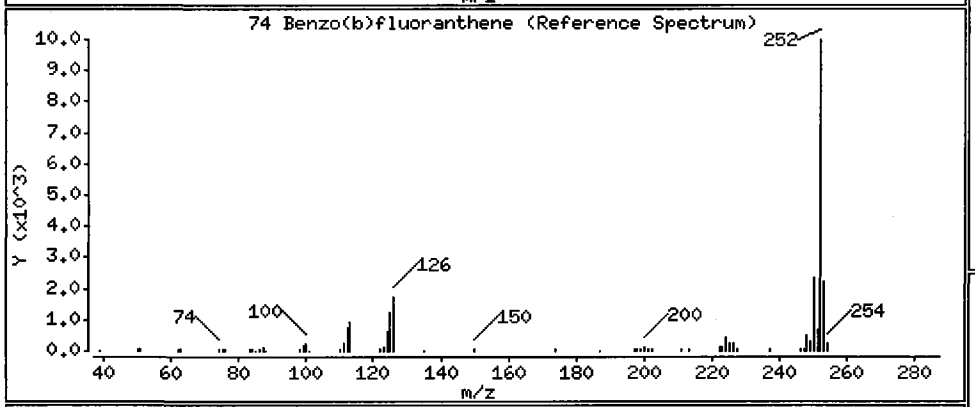
Column diameter: 0.32

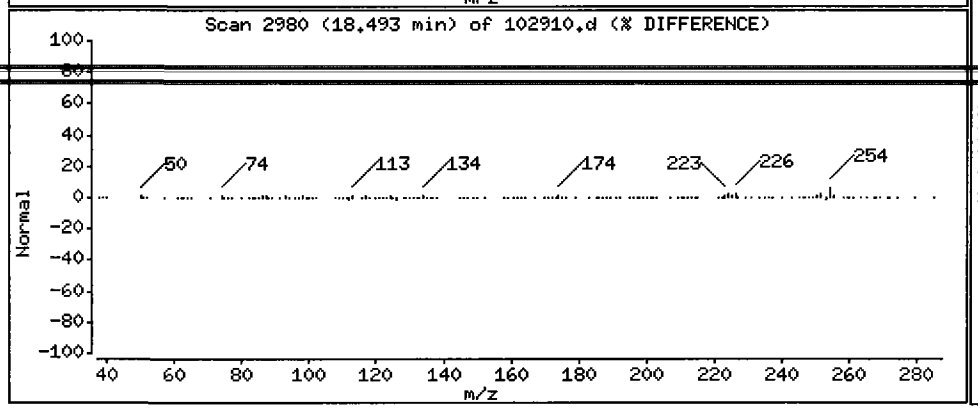
74 Benzo(b)fluoranthene

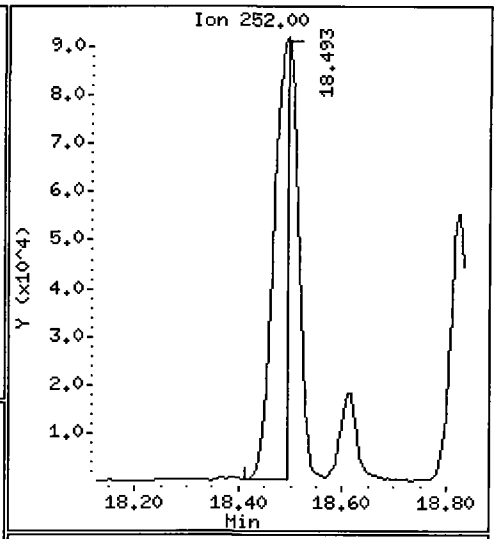
Concentration: 986.5 ug/kg

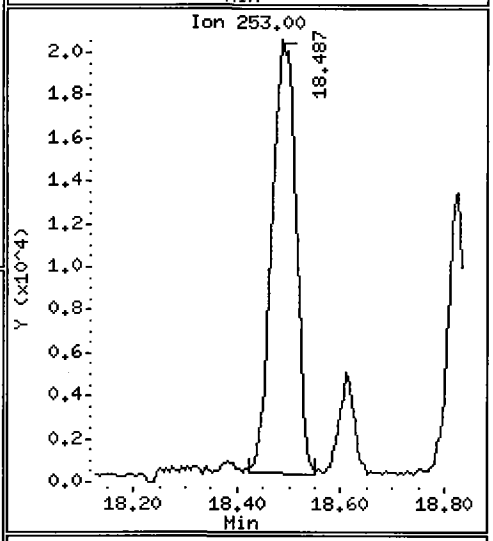


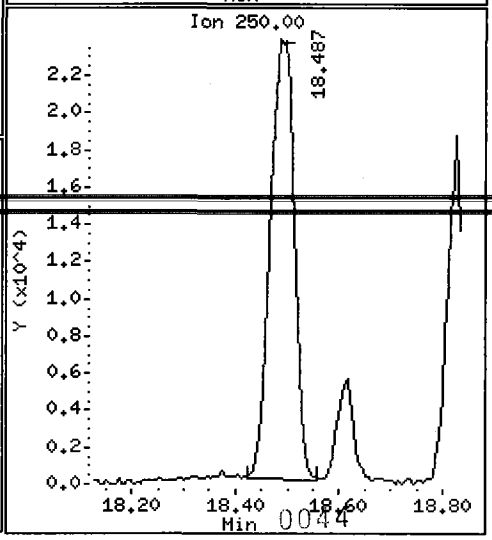












Data File: /chem3/nt4.i/20081029.b/102910.d

Date : 29-OCT-2008 15:55

Client ID: EB-S001-COMP-081003

Instrument: nt4.i

Sample Info: NS89A

Volume Injected (uL): 1.0

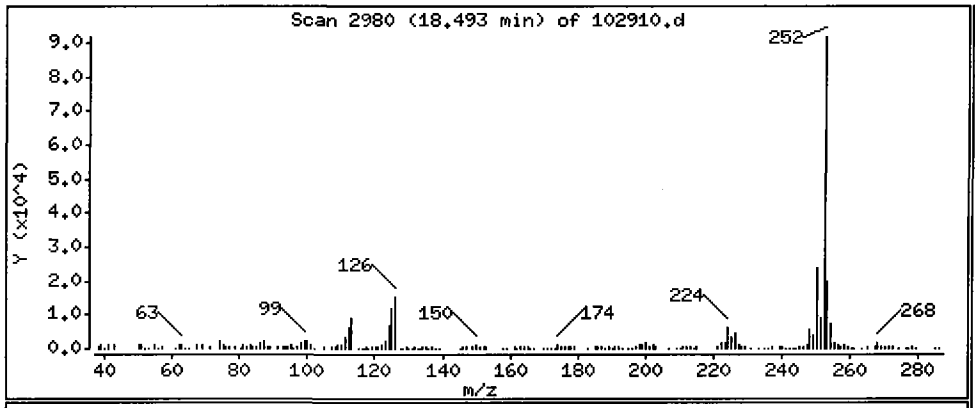
Operator: LJR/VTS

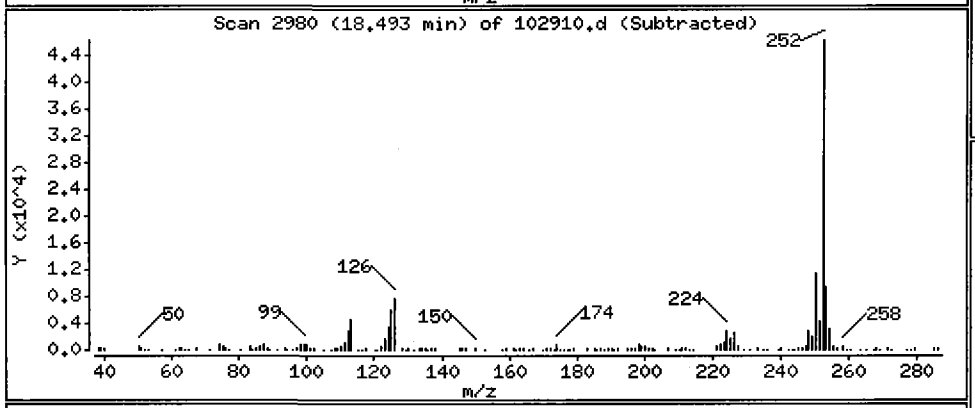
Column phase: ZB-5

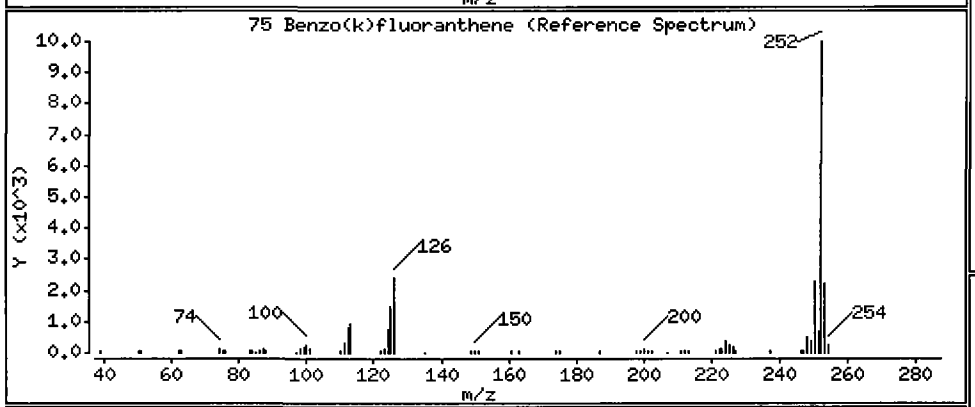
Column diameter: 0.32

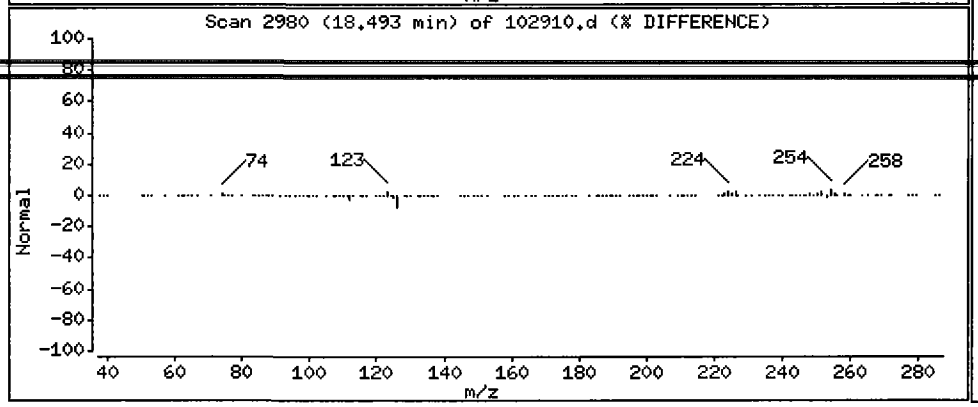
75 Benzo(k)fluoranthene

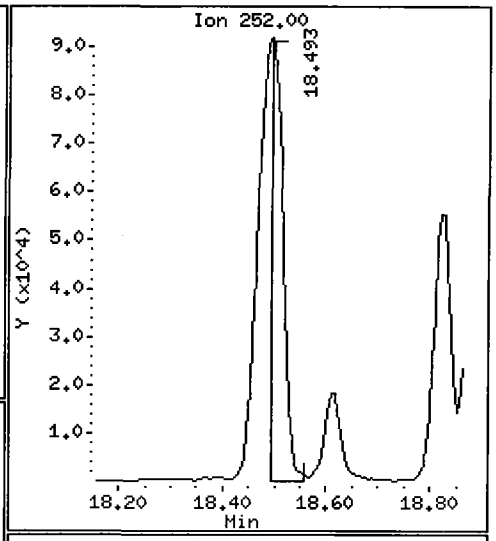
Concentration: 860.0 ug/kg

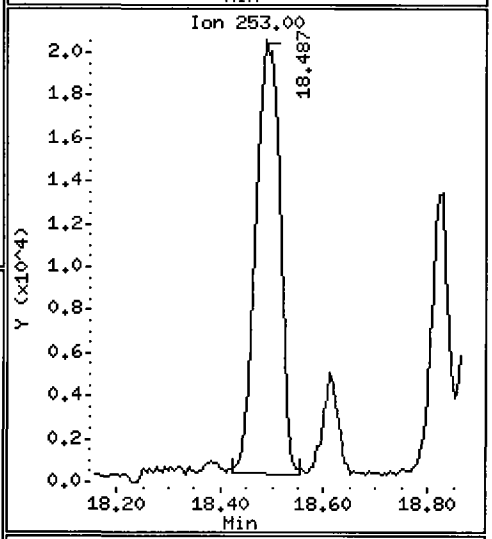


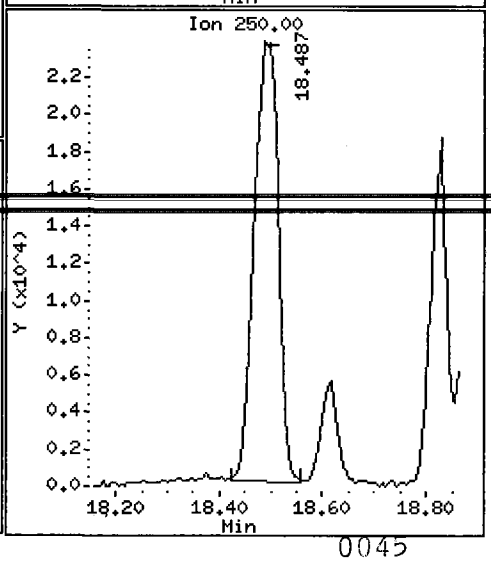












Data File: /chem3/nt4.i/20081029.b/102910.d

Date : 29-OCT-2008 15:55

Client ID: EB-S001-COMP-081003

Instrument: nt4.i

Sample Info: NS89A

Volume Injected (uL): 1.0

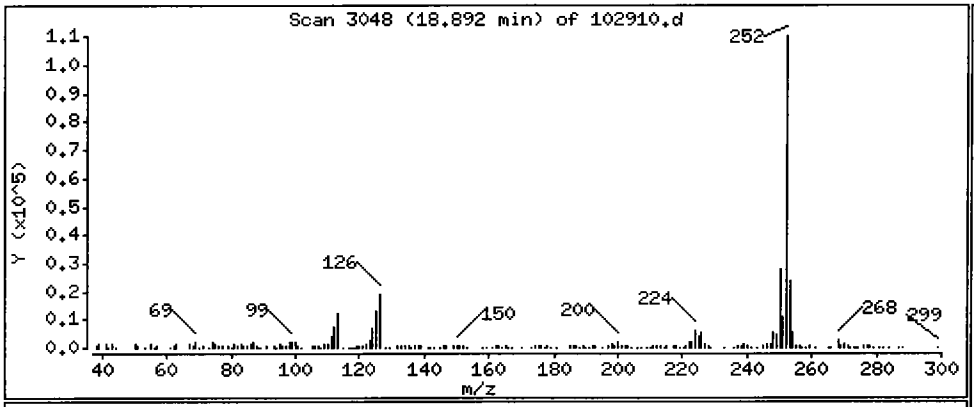
Operator: LJR/VTS

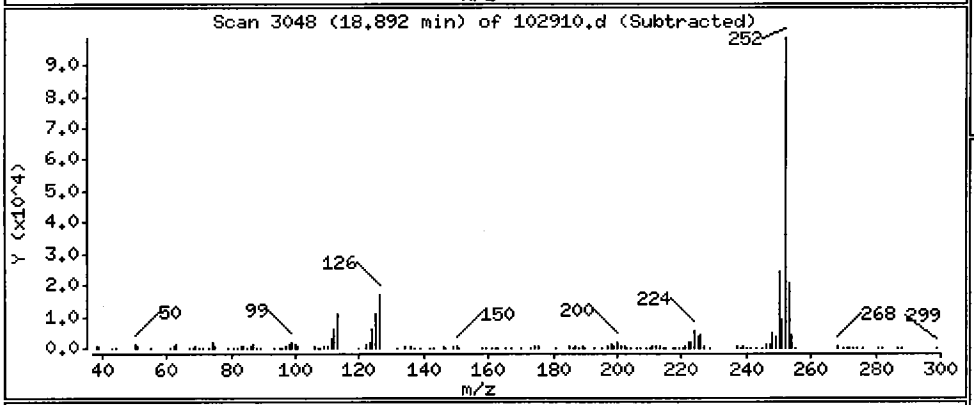
Column phase: ZB-5

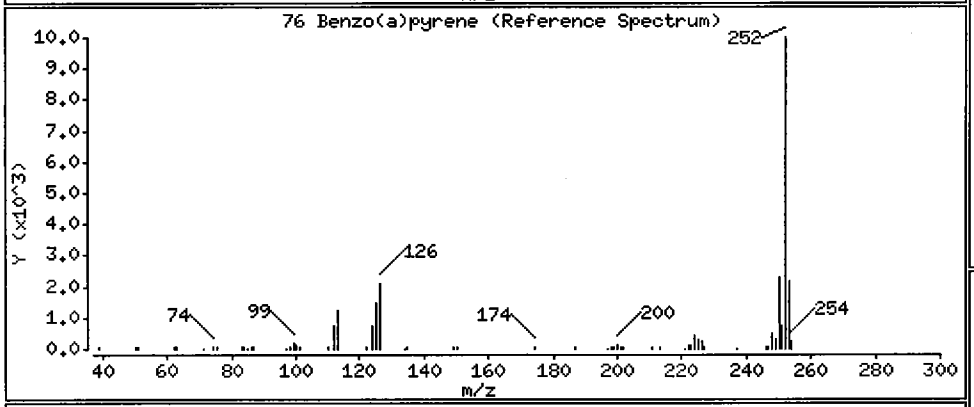
Column diameter: 0.32

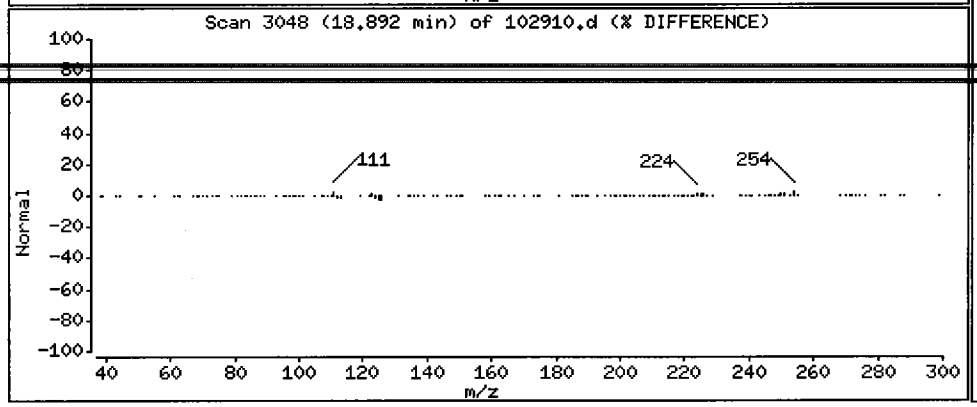
76 Benzo(a)pyrene

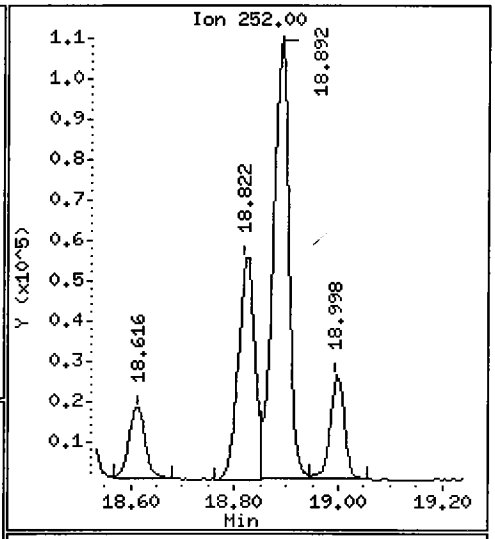
Concentration: 1491 ug/kg

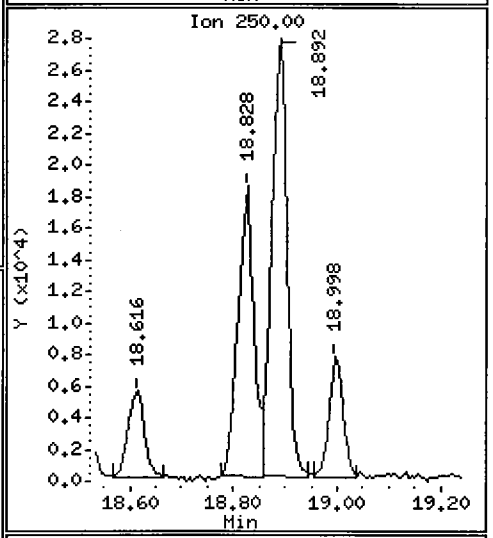


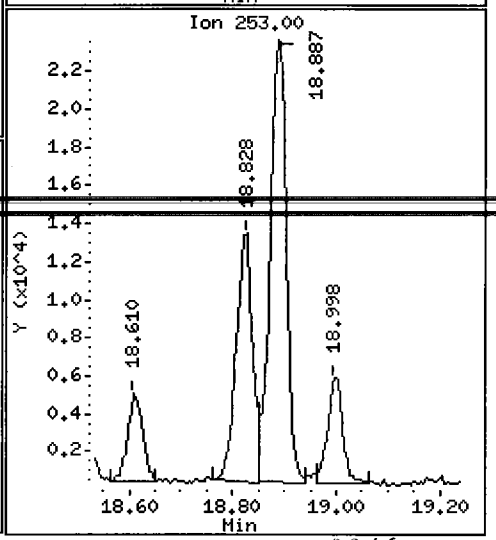












Data File: /chem3/nt4.i/20081029.b/102910.d

Date : 29-OCT-2008 15:55

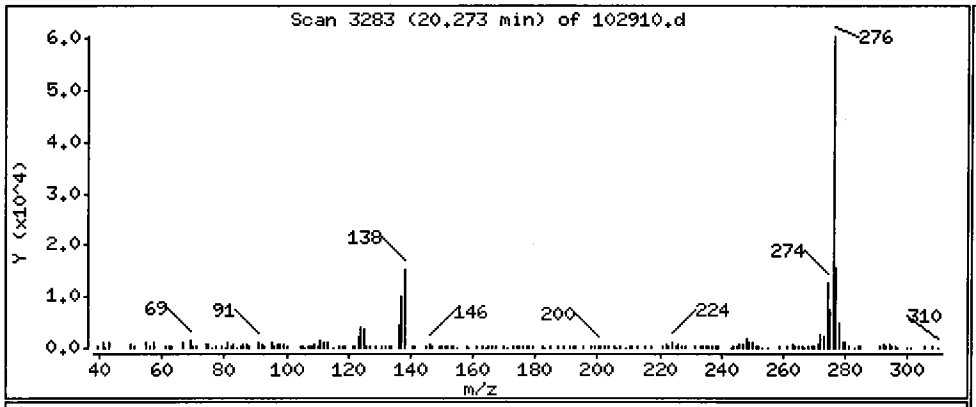
Client ID: EB-S001-COMP-081003 Instrument: nt4.i

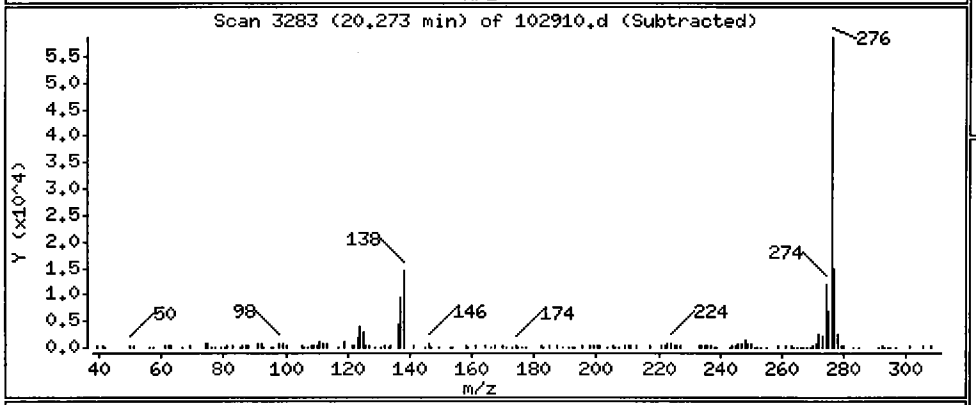
Sample Info: NS89A

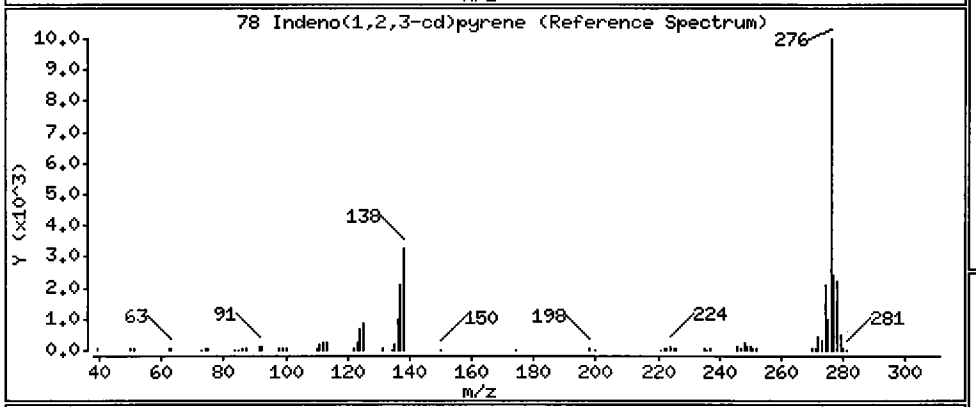
Volume Injected (uL): 1.0 Operator: LJR/VTS

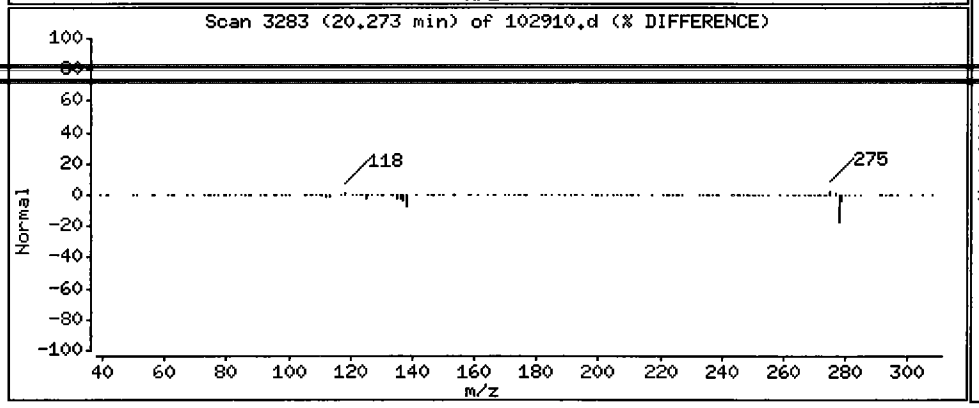
Column phase: ZB-5 Column diameter: 0.32

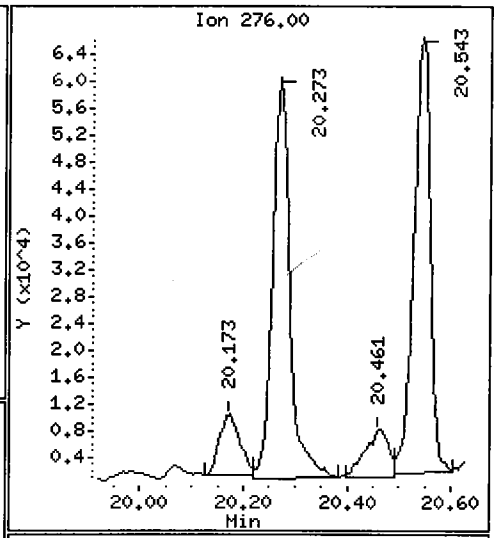
78 Indeno(1,2,3-cd)pyrene Concentration: 800.0 ug/kg

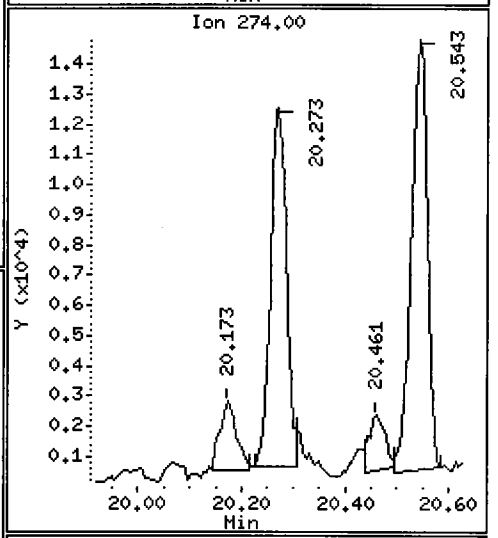


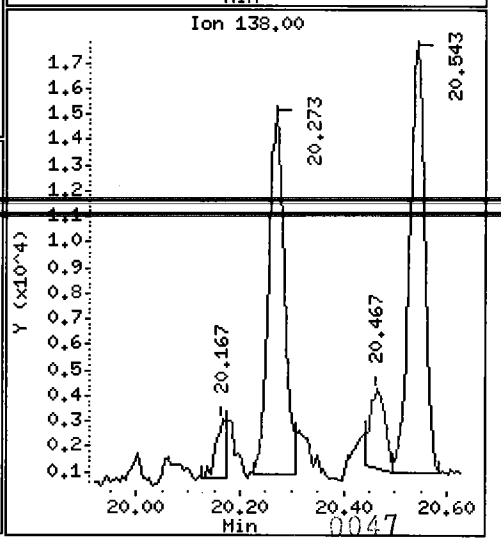












Data File: /chem3/nt4.i/20081029.b/102910.d

Date : 29-OCT-2008 15:55

Client ID: EB-S001-COMP-081003

Instrument: nt4.i

Sample Info: NS89A

Volume Injected (uL): 1.0

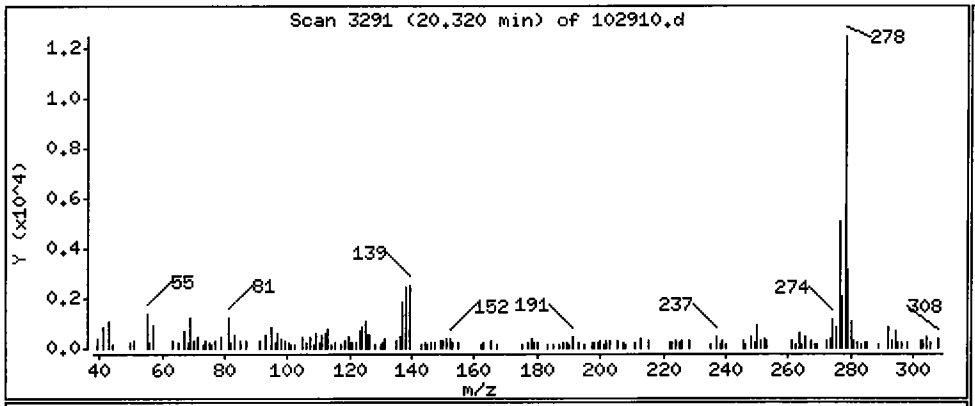
Operator: LJR/VTS

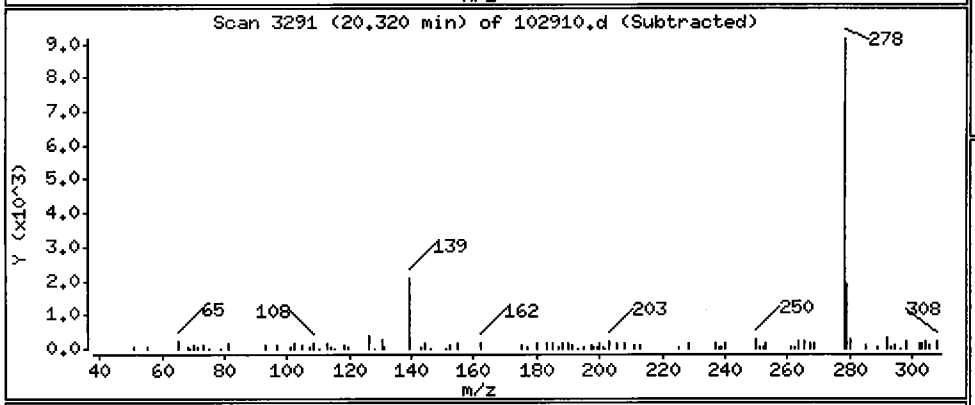
Column phase: ZB-5

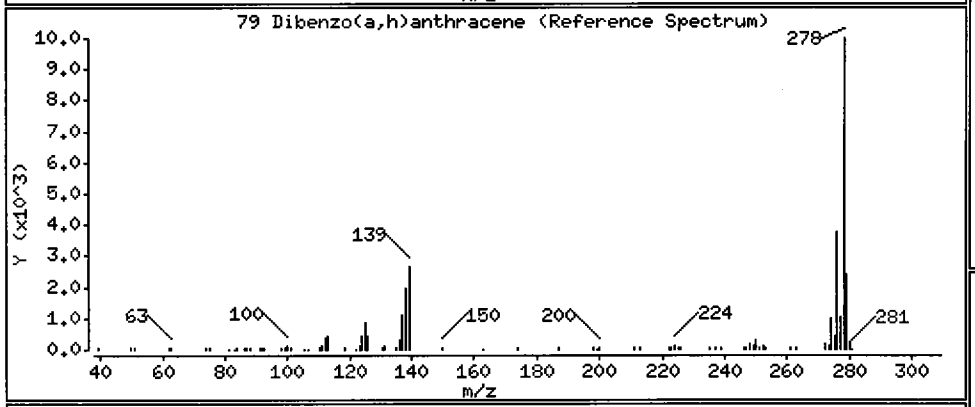
Column diameter: 0.32

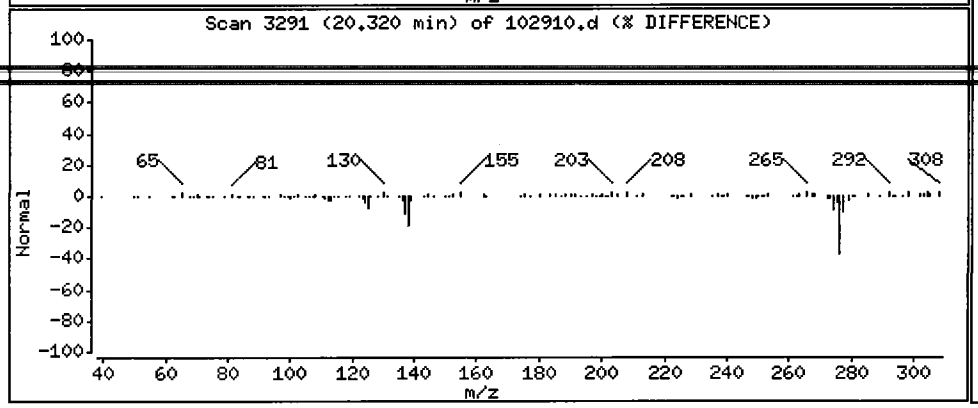
79 Dibenzo(a,h)anthracene

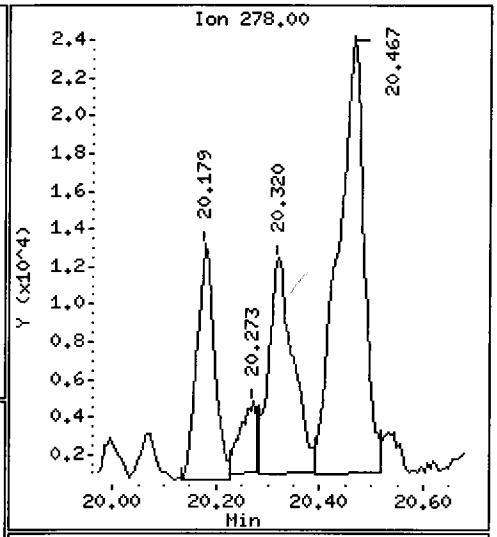
Concentration: 208.7 ug/kg

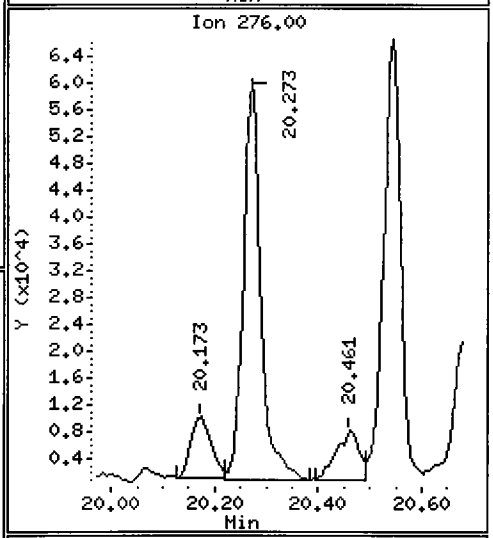


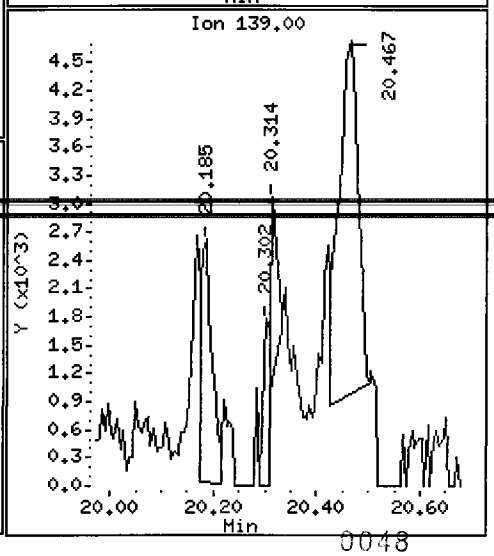












Data File: /chem3/nt4.i/20081029.b/102910.d

Date : 29-OCT-2008 15:55

Client ID: EB-S001-COMP-081003

Instrument: nt4.i

Sample Info: NS89A

Volume Injected (uL): 1.0

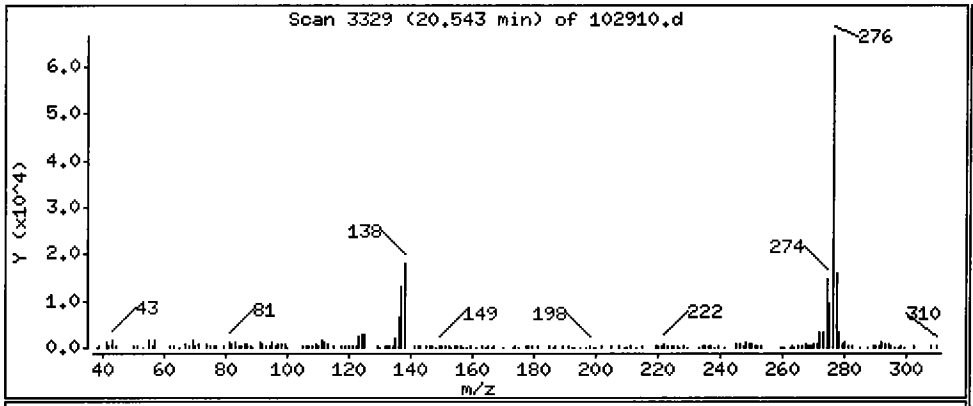
Operator: LJR/VTS

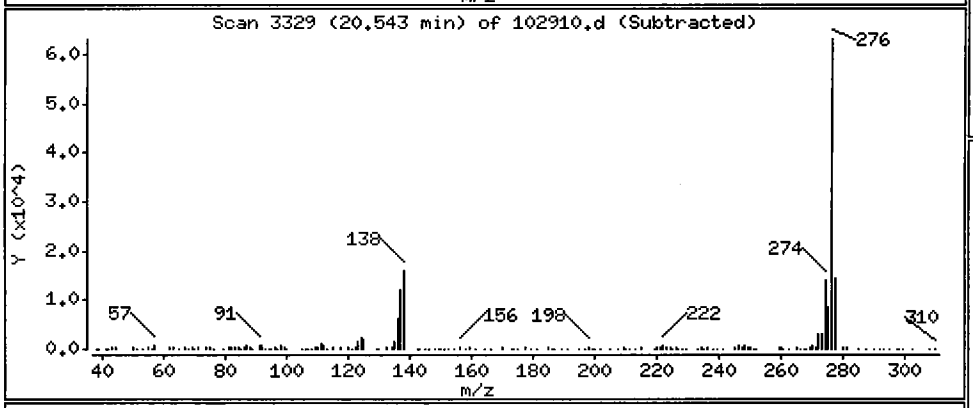
Column phase: ZB-5

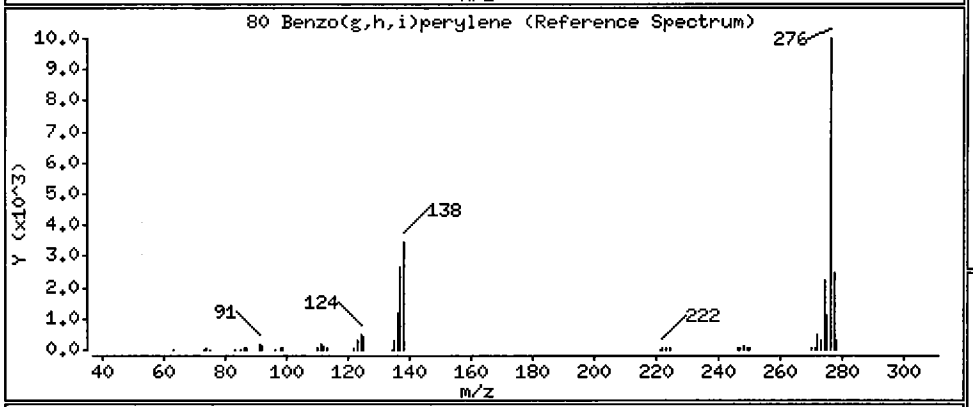
Column diameter: 0.32

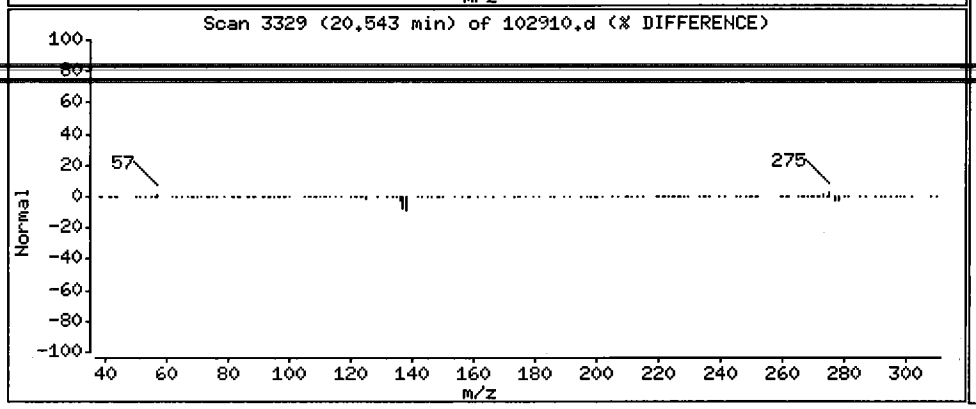
80 Benzo(g,h,i)perylene

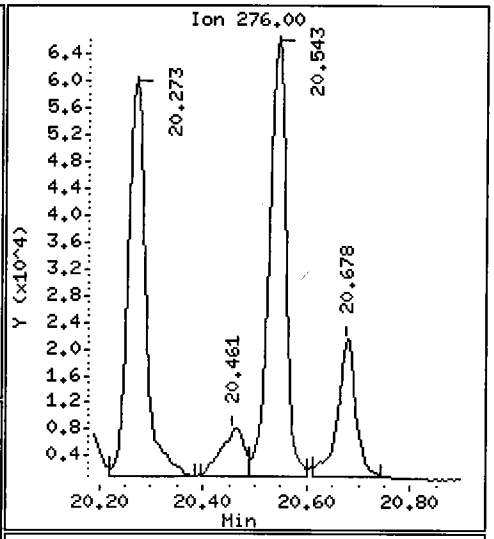
Concentration: 791.0 ug/kg

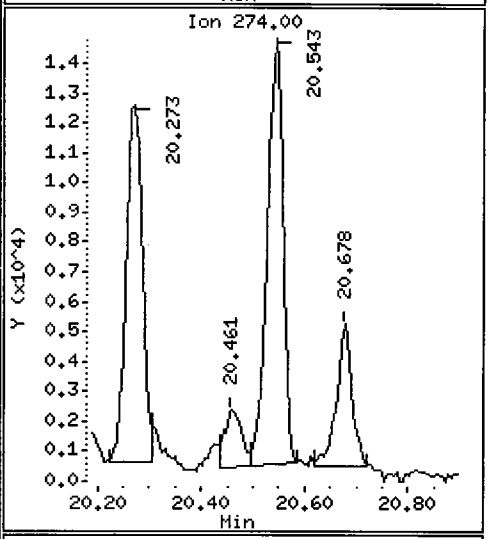


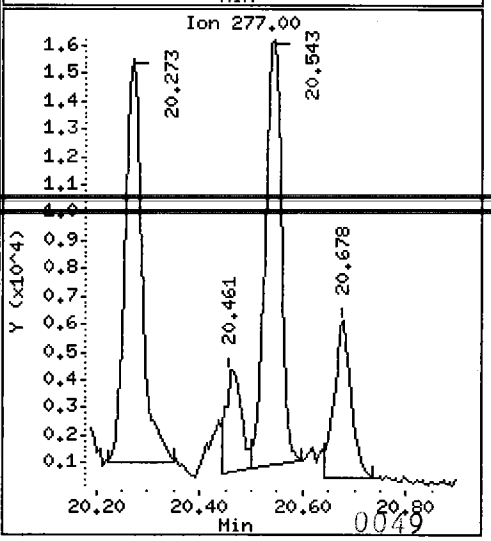












PNA Analysis
Standard Raw Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC.

PROJECT: EDDON BOATYARD, 040289-02

ARI JOB NO: NS89

prepared
by

Analytical Resources, Inc.

SEMIVOLATILE 8270-C INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS89 Project: EDDON BOATYARD

Instrument ID: NT4 Calibration Date: 10/27/08

LAB FILE ID: RRF1 =IC102703 RRF5 =IC102705 RRF10 =IC102706
RRF25 =IC102701 RRF40 =IC102704 RRF80 =IC102702

COMPOUND	RRF 1	RRF 5	RRF 10	RRF 25	RRF 40	RRF 80	___ RRF	%RSD /R^2	
Naphthalene	1.013	0.955	1.126	0.959	1.093	1.084	1.038	7.0	
2-Methylnaphthalene	0.620	0.634	0.630	0.506	0.630	0.632	0.609	8.3	
Acenaphthylene	1.790	1.782	2.103	1.658	2.066	2.117	1.919	10.4	
Acenaphthene	1.170	1.130	1.380	1.110	1.391	1.425	1.268	11.5	*
Dibenzofuran	1.863	1.830	1.831	1.408	1.768	1.818	1.753	9.8	
Fluorene	1.144	1.146	1.400	1.196	1.387	1.486	1.293	11.5	
Phenanthrene	1.164	1.151	1.320	1.128	1.336	1.338	1.240	8.2	
Anthracene	1.146	1.144	1.303	1.117	1.260	1.279	1.208	6.7	
Fluoranthene	1.188	1.092	1.298	1.157	1.296	1.308	1.223	7.4	*
Pyrene	1.183	1.235	1.418	1.212	1.404	1.362	1.302	8.0	
Benzo(a)anthracene	1.294	1.255	1.438	1.240	1.373	1.337	1.323	5.7	
Chrysene	1.238	1.215	1.365	1.169	1.377	1.364	1.288	7.1	
Benzo(b)fluoranthene	1.213	1.089	1.325	1.043	1.332	1.520	1.254	14.1	
Benzo(k)fluoranthene	1.018	1.094	1.342	1.194	1.383	1.254	1.214	11.6	
Benzo(a)pyrene	0.929	0.950	1.186	0.989	1.185	1.224	1.077	12.5	*
Indeno(1,2,3-cd)pyrene	1.078	1.000	1.241	1.209	1.326	1.423	1.213	12.9	
Dibenzo(a,h)anthracene	1.006	1.043	1.278	1.254	1.386	1.459	1.238	14.7	
Benzo(g,h,i)perylene	1.146	1.117	1.328	1.298	1.432	1.468	1.298	11.1	
1-methylnaphthalene	0.474	0.467	0.564	0.488	0.549	0.549	0.515	8.4	
Terphenyl-d14		0.850	0.919	0.742	0.898	0.867	0.855	8.0	
2-Fluorobiphenyl		1.350	1.458	1.179	1.396	1.442	1.365	8.2	

* Compounds with maximum %RSD = 30%

~ Compounds with minimum average RRF = .05

<- Outside QC limits

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-OCT-2008 11:43
End Cal Date : 27-OCT-2008 14:33
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20081027.b/SW846.m
Cal Date : 27-Oct-2008 15:21 peter

Calibration File Names:
Level 1: /chem3/nt4.i/20081027.b/ic102703.d
Level 2: /chem3/nt4.i/20081027.b/ic102705.d
Level 3: /chem3/nt4.i/20081027.b/ic102706.d
Level 4: /chem3/nt4.i/20081027.b/ic102701.d
Level 5: /chem3/nt4.i/20081027.b/ic102704.d
Level 6: /chem3/nt4.i/20081027.b/ic102702.d

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
179 n-Decane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
180 n-Octadecane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
170 N,N-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
171 2,3-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
172 2,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
173 2,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
174 2,6-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
175 3,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
176 3,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
177 p-Benzoquinone	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
168 Pentachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-OCT-2008 11:43
End Cal Date : 27-OCT-2008 14:33
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20081027.b/SW846.m
Cal Date : 27-Oct-2008 15:21 peter

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
147 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
148 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
149 TCMX	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
150 DCBP	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
142 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
135 2,3,5,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
136 2,3,4,5-tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
133 Butylatedhydroxytoluene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
132 3,6-Dimethylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
144 alpha-Terpineol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : /chem3/nt4.i/20081027.b/SW846.m
Cal Date : 27-Oct-2008 15:21 peter

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
123 Acetophenone	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
143 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
120 2,3,4,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
178 2-Benzyl-4-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
119 7,12-Dimethylbenz(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
118 Triphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
117 Butyl Diphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
116 Dibutyl Phenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
115 Tributyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
111 Azobenzene (1,2-DP-Hydrazine)	1.76822	1.78610	2.19850	1.68076	2.07678	2.13838	AVRG		1.94146		11.40801	
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
109 3,4,5-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
181 3,4,6-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
108 4,5,6-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
184 3,4-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
107 4,5-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
182 4,6-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20081027.b/SW846.m
Cal Date : 27-Oct-2008 15:21 peter

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
185 4-Chloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
106 Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
105 1-methylnaphthalene	0.47368	0.46675	0.56391	0.48859	0.54899	0.54870	AVRG		0.51510		8.42516	
151 1,2,4,5-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
156 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
157 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
158 Ethion	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
159 4-Nonylphenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
160 Tetraethyl Tin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
161 1,2,3-Trichloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
162 1,2,3,4-Tetrachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
163 1,2,3,5,8-Pentachloronaphthal	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
164 1,2,3,4,6,7-Hexachloronaphtha	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
165 1,2,3,4,5,6,7-Heptachloronaph	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
166 Octachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
167 2,2',4,4',5-Pentabromobipheny	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
3 Phenol	1.70432	1.78888	2.01078	1.86036	2.14669	2.08076	AVRG		1.93197		9.02127	
4 Bis(2-Chloroethyl)ether	1.33420	1.35198	1.60778	1.35480	1.55178	1.50418	AVRG		1.45079		8.17118	

Analytical Resources, Inc.

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Integrator : HP RTE
Method file : /chem3/nt4.i/20081027.b/SW846.m
Cal Date : 27-Oct-2008 15:21 peter

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
6 2-Chlorophenol	1.26923	1.23446	1.51238	1.31135	1.53037	1.48064	AVRG		1.38974		9.53850
7 1,3-Dichlorobenzene	1.43606	1.39849	1.57605	1.37309	1.56425	1.55674	AVRG		1.48411		6.18410
9 1,4-Dichlorobenzene	1.41719	1.37980	1.56864	1.43423	1.62371	1.60319	AVRG		1.50446		7.04540
11 Benzyl alcohol	0.98504	1.04036	0.99158	0.82488	1.00168	0.99163	AVRG		0.97253		7.71346
12 1,2-Dichlorobenzene	1.30025	1.31931	1.51448	1.32799	1.48482	1.49478	AVRG		1.40694		7.15309
13 2-Methylphenol	1.29773	1.30887	1.44553	1.27414	1.49640	1.45688	AVRG		1.37993		7.00990
14 2,2'-oxybis(1-Chloropropane)	1.64354	1.55488	1.79034	1.56586	1.74716	1.75210	AVRG		1.67565		6.07337
15 4-Methylphenol	1.27594	1.35068	1.52417	1.33358	1.61303	1.58487	AVRG		1.44704		9.96348
16 N-Nitroso-di-n-propylamine	1.13593	1.09642	1.28235	1.07308	1.24544	1.21268	AVRG		1.17432		7.22465
17 Hexachloroethane	0.55288	0.61580	0.72262	0.61367	0.71476	0.69554	AVRG		0.65255		10.48932
19 Nitrobenzene	0.64671	0.65125	0.74581	0.61856	0.71920	0.69774	AVRG		0.67988		7.17334
20 Isophorone	0.76975	0.76221	0.88832	0.68729	0.84861	0.83883	AVRG		0.79917		9.14637
21 2-Nitrophenol	+++++	0.18445	0.20784	0.17815	0.21164	0.20977	AVRG		0.19837		7.96477
22 2,4-Dimethylphenol	0.37617	0.39057	0.44758	0.37889	0.44256	0.43178	AVRG		0.41126		8.01088
23 Bis(2-Chloroethoxy)methane	0.44639	0.41816	0.49534	0.41674	0.48513	0.47681	AVRG		0.45643		7.52203
24 Benzoic acid	2422	17937	59917	131832	222951	480305	QUAD	0.000e+00	3.75603	-0.21411	0.99668
25 2,4-Dichlorophenol	+++++	0.25741	0.30723	0.25459	0.30248	0.29863	AVRG		0.28407		9.08995
26 1,2,4-Trichlorobenzene	0.25795	0.31088	0.36129	0.30728	0.34415	0.34603	AVRG		0.32127		11.68879
28 Naphthalene	1.01300	0.95527	1.12607	0.95895	1.09279	1.08414	AVRG		1.03837		7.02509
29 4-Chloroaniline	+++++	0.48024	0.46899	0.38321	0.42925	0.39490	AVRG		0.43132		10.01059
30 Hexachlorobutadiene	0.16315	0.17689	0.20585	0.17289	0.19435	0.19647	AVRG		0.18493		8.86449
31 4-Chloro-3-methylphenol	+++++	0.29512	0.36525	0.30511	0.37483	0.35668	AVRG		0.33940		10.78437

Analytical Resources, Inc.

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Cal Date : 27-Oct-2008 15:21 peter

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
32 2-Methylnaphthalene	0.62060	0.63353	0.63024	0.50648	0.63006	0.63163	AVRG		0.60876		8.26332	
33 Hexachlorocyclopentadiene	+++++	0.18417	0.30160	0.26272	0.34023	0.38332	AVRG		0.29441		25.87567	
34 2,4,6-Trichlorophenol	+++++	0.35248	0.42394	0.36417	0.42820	0.43827	AVRG		0.40141		9.93710	
35 2,4,5-Trichlorophenol	+++++	0.38020	0.44729	0.37952	0.45771	0.45832	AVRG		0.42461		9.67555	
37 2-Chloronaphthalene	1.08832	1.09509	1.28613	1.09757	1.24404	1.29625	AVRG		1.18457		8.53973	
38 2-Nitroaniline	+++++	0.56441	0.56649	0.43143	0.54264	0.51663	AVRG		0.52432		10.62284	
39 Dimethylphthalate	1.20015	1.15353	1.40210	1.16545	1.34771	1.34978	AVRG		1.26979		8.57133	
40 Acenaphthylene	1.78956	1.78198	2.10278	1.65791	2.06602	2.11693	AVRG		1.91920		10.37575	
41 2,6-Dinitrotoluene	+++++	0.27510	0.31237	0.27482	0.30451	0.31122	AVRG		0.29560		6.45623	
43 3-Nitroaniline	+++++	0.38732	0.38639	0.30079	0.34804	0.28780	AVRG		0.34207		13.63148	
44 Acenaphthene	1.17014	1.12981	1.37993	1.10955	1.39116	1.42538	AVRG		1.26766		11.49905	
45 2,4-Dinitrophenol	+++++	1376	9761	36287	56775	141466	LINR	0.63224	0.19719		0.99568	<-
46 Dibenzofuran	1.86341	1.82967	1.83095	1.40806	1.76826	1.81816	AVRG		1.75308		9.80093	
47 4-Nitrophenol	+++++	0.18265	0.25120	0.21951	0.26147	0.25711	AVRG		0.23439		14.19905	
48 2,4-Dinitrotoluene	+++++	0.32415	0.39401	0.34000	0.39266	0.41025	AVRG		0.37221		10.13091	
49 Fluorene	1.14459	1.14657	1.40031	1.19632	1.38690	1.48563	AVRG		1.29339		11.48101	
50 Diethylphthalate	12032	33082	86193	169111	261537	538138	QUAD	0.000e+00	0.73950	-0.00527	0.99868	
51 4-Chlorophenyl-phenylether	0.58073	0.56495	0.69151	0.57853	0.67971	0.70946	AVRG		0.63415		10.40603	
52 4-Nitroaniline	+++++	0.33185	0.34210	0.28243	0.32645	0.32650	AVRG		0.32187		7.12977	
53 4,6-Dinitro-2-methylphenol	+++++	6897	27047	65177	95803	216624	LINR	0.000e+00	0.17318		0.99684	
54 N-Nitrosodiphenylamine	3667	18764	55209	75944	181954	398743	LINR	0.13224	0.66399		0.98214	←
56 4-Bromophenyl-phenylether	0.22981	0.22741	0.25910	0.22915	0.25629	0.25706	AVRG		0.24314		6.48232	

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Analytical Resources, Inc.

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Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
57 Hexachlorobenzene	0.27571	0.24843	0.26803	0.23931	0.26528	0.26431	AVRG		0.26018		5.21179
58 Pentachlorophenol	+++++	3522	10966	25664	44972	101459	LINR	0.17022	0.17097		0.99714
60 Phenanthrene	1.16420	1.15102	1.31957	1.12848	1.33608	1.33854	AVRG		1.23965		8.17674
61 Anthracene	1.14587	1.14370	1.30285	1.11736	1.26008	1.27870	AVRG		1.20809		6.71631
62 Carbazole	0.95128	0.95847	1.09879	0.92303	1.06801	1.07846	AVRG		1.01301		7.58859
63 Di-n-butylphthalate	1.24054	1.20900	1.42714	1.21690	1.38885	1.38565	AVRG		1.31135		7.57565
64 Fluoranthene	1.18810	1.09164	1.29810	1.15666	1.29568	1.30845	AVRG		1.22311		7.41255
65 Pyrene	1.18316	1.23521	1.41829	1.21252	1.40408	1.36206	AVRG		1.30255		7.98881
67 Butylbenzylphthalate	0.52312	0.56847	0.66037	0.56085	0.67362	0.64393	AVRG		0.60506		10.26245
68 Benzo(a)anthracene	1.29457	1.25473	1.43776	1.23962	1.37276	1.33706	AVRG		1.32275		5.68399
70 3,3'-Dichlorobenzidine	+++++	0.56240	0.53045	0.43844	0.47459	0.45213	AVRG		0.49160		10.76136
71 Chrysene	1.23799	1.21520	1.36493	1.16949	1.37694	1.36405	AVRG		1.28810		7.06922
72 bis(2-Ethylhexyl)phthalate	0.49169	0.52134	0.61473	0.50324	0.60096	0.56995	AVRG		0.55032		9.47449
73 Di-n-octylphthalate	1.06778	1.02103	1.18325	0.96256	1.09520	1.05725	AVRG		1.06451		6.95262
74 Benzo(b)fluoranthene	1.21269	1.08861	1.32477	1.04289	1.33172	1.51954	AVRG		1.25337		14.05583
75 Benzo(k)fluoranthene	1.01827	1.09356	1.34176	1.19429	1.38266	1.25429	AVRG		1.21414		11.62426
76 Benzo(a)pyrene	0.92868	0.94977	1.18600	0.98888	1.18518	1.22382	AVRG		1.07706		12.53192
78 Indeno(1,2,3-cd)pyrene	1.07767	0.99979	1.24064	1.20865	1.32569	1.42336	AVRG		1.21263		12.85543
79 Dibenzo(a,h)anthracene	1.00581	1.04277	1.27834	1.25456	1.38615	1.45896	AVRG		1.23776		14.66276
80 Benzo(g,h,i)perylene	1.14637	1.11665	1.32824	1.29849	1.43234	1.46774	AVRG		1.29830		11.08997
90 N-Nitrosodimethylamine	+++++	1.34440	1.51245	1.24602	1.45634	1.39380	AVRG		1.39060		7.38763
91 Aniline	+++++	2.83081	2.58038	2.21603	2.50133	2.35894	AVRG		2.49750		9.31311

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-OCT-2008 11:43
End Cal Date : 27-OCT-2008 14:33
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20081027.b/SW846.m
Cal Date : 27-Oct-2008 15:21 peter

	Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
92	1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
93	Benzidine	+++++	21867	48542	92113	129815	279687	LINR	0.000e+00	0.45576		0.99424	
96	p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
97	Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
98	Retene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
99	Perylene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
100	3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
101	Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
102	beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
103	Pyridine	+++++	2.48857	2.57541	1.98031	2.53382	2.51780	AVRG		2.41918		10.22381	
$ 1	2-Fluorophenol	+++++	1.42591	1.51035	1.30834	1.46617	1.42940	AVRG		1.42804		5.25939	
$ 137	d8-1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
$ 2	Phenol-d5	+++++	1.98414	2.07704	1.80108	2.06043	2.03064	AVRG		1.99067		5.61149	
$ 5	2-Chlorophenol-d4	+++++	1.20514	1.27597	1.13277	1.23892	1.27259	AVRG		1.22508		4.82182	
$ 10	1,2-Dichlorobenzene-d4	+++++	0.87163	0.92572	0.80707	0.91904	0.93299	AVRG		0.89129		5.92988	
$ 18	Nitrobenzene-d5	+++++	0.49803	0.52683	0.42605	0.50259	0.49735	AVRG		0.49017		7.71663	
$ 36	2-Fluorobiphenyl	+++++	1.35014	1.45767	1.17902	1.39654	1.44171	AVRG		1.36501		8.21321	
$ 55	2,4,6-Tribromophenol	+++++	0.17161	0.18740	0.15924	0.19478	0.20905	AVRG		0.18442		10.57351	
$ 66	Terphenyl-d14	+++++	0.84969	0.91897	0.74227	0.89832	0.86677	AVRG		0.85520		8.02536	
$ 85	p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
$ 86	Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-OCT-2008 11:43
End Cal Date : 27-OCT-2008 14:33
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20081027.b/SW846.m
Cal Date : 27-Oct-2008 15:21 peter

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
$ 87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
$ 88 Dibenz(a,h)anthracene-d14	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
$ 89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
$ 95 D10-1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-

0060

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-OCT-2008 11:43
End Cal Date : 27-OCT-2008 14:33
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20081027.b/SW846.m
Cal Date : 27-Oct-2008 15:21 peter

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i
Lab File ID: ic102701.d
Analysis Type: SOIL
Lab Sample ID: ABN 25
Method: /chem3/nt4.i/20081027.b/SW846.m

Injection Date: 27-OCT-2008 11:43
Init. Cal. Date(s): 27-OCT-2008 27-OCT-2008
Init. Cal. Times: 11:43 14:33
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 2-Fluorophenol	1.42804	1.30834	1.30834	0.010	8.38170	100	Averaged	
$ 2 Phenol-d5	1.99067	1.80108	1.80108	0.010	9.52397	100	Averaged	
3 Phenol	1.93197	1.86036	1.86036	0.010	3.70624	20.00000	Averaged	
$ 5 2-Chlorophenol-d4	1.22508	1.13277	1.13277	0.010	7.53483	100	Averaged	
4 Bis(2-Chloroethyl)ether	1.45079	1.35480	1.35480	0.010	6.61596	100	Averaged	
6 2-Chlorophenol	1.38974	1.31135	1.31135	0.010	5.64058	100	Averaged	
7 1,3-Dichlorobenzene	1.48411	1.37309	1.37309	0.010	7.48100	100	Averaged	
9 1,4-Dichlorobenzene	1.50446	1.43423	1.43423	0.010	4.66820	20.00000	Averaged	
$ 10 1,2-Dichlorobenzene-d4	0.89129	0.80707	0.80707	0.010	9.44881	100	Averaged	
12 1,2-Dichlorobenzene	1.40694	1.32799	1.32799	0.010	5.61133	100	Averaged	
11 Benzyl alcohol	0.97253	0.82488	0.82488	0.010	15.18228	100	Averaged	
14 2,2'-oxybis(1-Chloropropane	1.67565	1.56586	1.56586	0.010	6.55210	100	Averaged	
13 2-Methylphenol	1.37993	1.27414	1.27414	0.010	7.66565	100	Averaged	
17 Hexachloroethane	0.65255	0.61367	0.61367	0.010	5.95693	100	Averaged	
16 N-Nitroso-di-n-propylamine	1.17432	1.07308	1.07308	0.050	8.62074	100	Averaged	
15 4-Methylphenol	1.44704	1.33358	1.33358	0.010	7.84114	100	Averaged	
$ 18 Nitrobenzene-d5	0.49017	0.42605	0.42605	0.010	13.08106	100	Averaged	
19 Nitrobenzene	0.67988	0.61856	0.61856	0.010	9.01965	100	Averaged	
20 Isophorone	0.79917	0.68729	0.68729	0.010	13.99909	100	Averaged	
21 2-Nitrophenol	0.19837	0.17815	0.17815	0.010	10.19435	20.00000	Averaged	
22 2,4-Dimethylphenol	0.41126	0.37889	0.37889	0.010	7.87117	100	Averaged	
23 Bis(2-Chloroethoxy)methane	0.45643	0.41674	0.41674	0.010	8.69553	100	Averaged	
24 Benzoic acid	44.26805	50.00000	0.24422	0.010	11.46390	0.000e+00	Quadratic	<-
25 2,4-Dichlorophenol	0.28407	0.25459	0.25459	0.010	10.37733	20.00000	Averaged	
26 1,2,4-Trichlorobenzene	0.32127	0.30728	0.30728	0.010	4.35221	100	Averaged	
28 Naphthalene	1.03837	0.95895	0.95895	0.010	7.64868	100	Averaged	
29 4-Chloroaniline	0.43132	0.38321	0.38321	0.010	11.15424	100	Averaged	
30 Hexachlorobutadiene	0.18493	0.17289	0.17289	0.010	6.51350	20.00000	Averaged	
31 4-Chloro-3-methylphenol	0.33940	0.30511	0.30511	0.010	10.10318	20.00000	Averaged	
32 2-Methylnaphthalene	0.60876	0.50648	0.50648	0.010	16.80030	100	Averaged	
33 Hexachlorocyclopentadiene	0.29441	0.26272	0.26272	0.050	10.76200	100	Averaged	
34 2,4,6-Trichlorophenol	0.40141	0.36417	0.36417	0.010	9.27779	20.00000	Averaged	
35 2,4,5-Trichlorophenol	0.42461	0.37952	0.37952	0.010	10.61805	100	Averaged	
$ 36 2-Fluorobiphenyl	1.36501	1.17902	1.17902	0.010	13.62585	100	Averaged	
37 2-Chloronaphthalene	1.18457	1.09757	1.09757	0.010	7.34412	100	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i Injection Date: 27-OCT-2008 11:43
Lab File ID: ic102701.d Init. Cal. Date(s): 27-OCT-2008 27-OCT-2008
Analysis Type: SOIL Init. Cal. Times: 11:43 14:33
Lab Sample ID: ABN 25 Quant Type: ISTD
Method: /chem3/nt4.i/20081027.b/SW846.m

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
38 2-Nitroaniline	0.52432	0.43143	0.43143	0.010	17.71640	100	Averaged	
39 Dimethylphthalate	1.26979	1.16545	1.16545	0.010	8.21655	100	Averaged	
40 Acenaphthylene	1.91920	1.65791	1.65791	0.010	13.61445	100	Averaged	
41 2,6-Dinitrotoluene	0.29560	0.27482	0.27482	0.010	7.03254	100	Averaged	
43 3-Nitroaniline	0.34207	0.30079	0.30079	0.010	12.06815	100	Averaged	
44 Acenaphthene	1.26766	1.10955	1.10955	0.010	12.47249	20.00000	Averaged	
45 2,4-Dinitrophenol	47.19782	50.00000	0.13627	0.050	5.60435	100	Linear	
46 Dibenzofuran	1.75308	1.40806	1.40806	0.010	19.68114	100	Averaged	
47 4-Nitrophenol	0.23439	0.21951	0.21951	0.050	6.34481	100	Averaged	
48 2,4-Dinitrotoluene	0.37221	0.34000	0.34000	0.010	8.65434	100	Averaged	
50 Diethylphthalate	23.21585	25.00000	1.27014	0.010	7.13659	0.000e+00	Quadratic	<-
49 Fluorene	1.29339	1.19632	1.19632	0.010	7.50449	100	Averaged	
51 4-Chlorophenyl-phenylether	0.63415	0.57853	0.57853	0.010	8.77008	100	Averaged	
52 4-Nitroaniline	0.32187	0.28243	0.28243	0.010	12.25155	100	Averaged	
53 4,6-Dinitro-2-methylphenol	47.33223	50.00000	0.16394	0.010	5.33554	0.000e+00	Linear	<-
54 N-Nitrosodiphenylamine	17.02938	25.00000	0.38205	0.010	31.88249	0.000e+00	Linear	<-
$ 55 2,4,6-Tribromophenol	0.18442	0.15924	0.15924	0.010	13.65120	100	Averaged	
56 4-Bromophenyl-phenylether	0.24314	0.22915	0.22915	0.010	5.75214	100	Averaged	
57 Hexachlorobenzene	0.26018	0.23931	0.23931	0.010	8.01974	100	Averaged	
58 Pentachlorophenol	22.28250	25.00000	0.12911	0.010	10.87002	20.00000	Linear	
60 Phenanthrene	1.23965	1.12848	1.12848	0.010	8.96762	100	Averaged	
61 Anthracene	1.20809	1.11736	1.11736	0.010	7.51065	100	Averaged	
62 Carbazole	1.01301	0.92303	0.92303	0.010	8.88180	100	Averaged	
63 Di-n-butylphthalate	1.31135	1.21690	1.21690	0.010	7.20229	100	Averaged	
64 Fluoranthene	1.22311	1.15666	1.15666	0.010	5.43264	20.00000	Averaged	
65 Pyrene	1.30255	1.21252	1.21252	0.010	6.91223	100	Averaged	
$ 66 Terphenyl-d14	0.85520	0.74227	0.74227	0.010	13.20513	100	Averaged	
67 Butylbenzylphthalate	0.60506	0.56085	0.56085	0.010	7.30723	100	Averaged	
68 Benzo(a)anthracene	1.32275	1.23962	1.23962	0.010	6.28461	100	Averaged	
70 3,3'-Dichlorobenzidine	0.49160	0.43844	0.43844	0.010	10.81418	100	Averaged	
71 Chrysene	1.28810	1.16949	1.16949	0.010	9.20826	100	Averaged	
72 bis(2-Ethylhexyl)phthalate	0.55032	0.50324	0.50324	0.010	8.55480	100	Averaged	
73 Di-n-octylphthalate	1.06451	0.96256	0.96256	0.010	9.57715	20.00000	Averaged	
74 Benzo(b)fluoranthene	1.25337	1.04289	1.04289	0.010	16.79297	100	Averaged	
75 Benzo(k)fluoranthene	1.21414	1.19429	1.19429	0.010	1.63514	100	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i Injection Date: 27-OCT-2008 11:43
Lab File ID: ic102701.d Init. Cal. Date(s): 27-OCT-2008 27-OCT-2008
Analysis Type: SOIL Init. Cal. Times: 11:43 14:33
Lab Sample ID: ABN 25 Quant Type: ISTD
Method: /chem3/nt4.i/20081027.b/SW846.m

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
76 Benzo(a)pyrene	1.07706	0.98888	0.98888	0.010	8.18647	20.00000	Averaged
78 Indeno(1,2,3-cd)pyrene	1.21263	1.20865	1.20865	0.010	0.32866	100	Averaged
79 Dibenzo(a,h)anthracene	1.23776	1.25456	1.25456	0.010	-1.35665	100	Averaged
80 Benzo(g,h,i)perylene	1.29830	1.29849	1.29849	0.010	-0.01393	100	Averaged
90 N-Nitrosodimethylamine	1.39060	1.24602	1.24602	0.010	10.39713	100	Averaged
91 Aniline	2.49750	2.21603	2.21603	0.010	11.27005	100	Averaged
93 Benzidine	25.34814	25.00000	0.46211	0.010	-1.39255	0.000e+00	Linear <-
103 Pyridine	2.41918	1.98031	1.98031	0.010	18.14117	100	Averaged
105 1-methylnaphthalene	0.51510	0.48859	0.48859	0.010	5.14802	100	Averaged
111 Azobenzene (1,2-DP-Hydrazin	1.94146	1.68076	1.68076	0.010	13.42779	100	Averaged

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20081027.b/ic102701.d
Lab Smp Id: ABN 25
Inj Date : 27-OCT-2008 11:43
Operator : LJR/VTS Inst ID: nt4.i
Smp Info : ABN 25
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt4.i/20081027.b/SW846.m
Meth Date : 27-Oct-2008 16:10 peter Quant Type: ISTD
Cal Date : 27-OCT-2008 14:33 Cal File: ic102706.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	7.50000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	3.354	3.354	(0.576)	97828	25.0000	22.90(M)
$ 2	Phenol-d5	99	5.587	5.587	(0.960)	134671	25.0000	22.62
3	Phenol	94	5.604	5.604	(0.963)	139104	25.0000	24.07
$ 5	2-Chlorophenol-d4	132	5.522	5.522	(0.949)	84700	25.0000	23.12
4	Bis(2-Chloroethyl)ether	93	5.557	5.557	(0.955)	101302	25.0000	23.35(M)
6	2-Chlorophenol	128	5.546	5.546	(0.953)	98053	25.0000	23.59
7	1,3-Dichlorobenzene	146	5.739	5.739	(0.986)	102669	25.0000	23.13
* 8	1,4-Dichlorobenzene-d4	152	5.822	5.822	(1.000)	59818	20.0000	
9	1,4-Dichlorobenzene	146	5.845	5.845	(1.004)	107241	25.0000	23.83
$ 10	1,2-Dichlorobenzene-d4	152	6.133	6.133	(1.053)	60347	25.0000	22.64
12	1,2-Dichlorobenzene	146	6.157	6.157	(1.058)	99297	25.0000	23.60
11	Benzyl alcohol	108	6.233	6.233	(1.071)	61678	25.0000	21.20
14	2,2'-oxybis(1-Chloropropane)	45	6.515	6.515	(1.119)	117083	25.0000	23.36
13	2-Methylphenol	108	6.579	6.579	(1.130)	95271	25.0000	23.08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	17 Hexachloroethane	117	6.662	6.662	(1.144)	45886	25.0000	23.51
	16 N-Nitroso-di-n-propylamine	70	6.738	6.738	(1.157)	80237	25.0000	22.84
	15 4-Methylphenol	108	6.838	6.838	(1.175)	99715	25.0000	23.04
$	18 Nitrobenzene-d5	82	6.838	6.838	(0.862)	114994	25.0000	21.73
	19 Nitrobenzene	77	6.861	6.861	(0.865)	166953	25.0000	22.75
	20 Isophorone	82	7.284	7.284	(0.918)	185505	25.0000	21.50
	21 2-Nitrophenol	139	7.396	7.396	(0.932)	48083	25.0000	22.45
	22 2,4-Dimethylphenol	107	7.660	7.660	(0.965)	102264	25.0000	23.03
	23 Bis(2-Chloroethoxy)methane	93	7.766	7.766	(0.979)	112481	25.0000	22.83
	24 Benzoic acid	105	8.042	8.042	(1.013)	131832	50.0000	44.27(M)
	25 2,4-Dichlorophenol	162	7.831	7.831	(0.987)	68715	25.0000	22.41
	26 1,2,4-Trichlorobenzene	180	7.901	7.901	(0.996)	82938	25.0000	23.91
*	27 Naphthalene-d8	136	7.936	7.936	(1.000)	215926	20.0000	
	28 Naphthalene	128	7.966	7.966	(1.004)	258827	25.0000	23.09
	29 4-Chloroaniline	127	8.189	8.189	(1.032)	103431	25.0000	22.21
	30 Hexachlorobutadiene	225	8.336	8.336	(1.050)	46663	25.0000	23.37
	31 4-Chloro-3-methylphenol	107	9.100	9.100	(1.147)	82351	25.0000	22.47
	32 2-Methylnaphthalene	141	9.088	9.088	(1.145)	136704	25.0000	20.80
	33 Hexachlorocyclopentadiene	237	9.481	9.481	(0.884)	34980	25.0000	22.31
	34 2,4,6-Trichlorophenol	196	9.646	9.646	(0.899)	48487	25.0000	22.68
	35 2,4,5-Trichlorophenol	196	9.711	9.711	(0.905)	50531	25.0000	22.35
$	36 2-Fluorobiphenyl	172	9.763	9.763	(0.910)	156979	25.0000	21.59
	37 2-Chloronaphthalene	162	9.828	9.828	(0.916)	146135	25.0000	23.16
	38 2-Nitroaniline	65	10.122	10.122	(0.944)	57442	25.0000	20.57
	39 Dimethylphthalate	163	10.539	10.539	(0.982)	155173	25.0000	22.95
	40 Acenaphthylene	152	10.474	10.474	(0.976)	220740	25.0000	21.60
	41 2,6-Dinitrotoluene	165	10.603	10.603	(0.988)	36590	25.0000	23.24
*	42 Acenaphthene-d10	164	10.727	10.727	(1.000)	106515	20.0000	
	43 3-Nitroaniline	138	10.786	10.786	(1.005)	40048	25.0000	21.98
	44 Acenaphthene	153	10.774	10.774	(1.004)	147730	25.0000	21.88
	45 2,4-Dinitrophenol	184	10.956	10.956	(1.021)	36287	50.0000	47.20
	46 Dibenzofuran	168	11.032	11.032	(1.028)	187474	25.0000	20.08
	47 4-Nitrophenol	109	11.238	11.238	(1.048)	29227	25.0000	23.41
	48 2,4-Dinitrotoluene	165	11.197	11.197	(1.044)	45269	25.0000	22.84
	50 Diethylphthalate	149	11.678	11.678	(1.089)	169111	25.0000	23.22
	49 Fluorene	166	11.567	11.567	(1.078)	159283	25.0000	23.12
	51 4-Chlorophenyl-phenylether	204	11.655	11.655	(1.087)	77028	25.0000	22.81
	52 4-Nitroaniline	138	11.749	11.749	(1.095)	37604	25.0000	21.94
	53 4,6-Dinitro-2-methylphenol	198	11.825	11.825	(0.910)	65177	50.0000	47.33
	54 N-Nitrosodiphenylamine	169	11.872	11.872	(0.914)	75944	25.0000	17.03
$	55 2,4,6-Tribromophenol	330	11.984	11.984	(1.117)	21202	25.0000	21.59
	56 4-Bromophenyl-phenylether	248	12.395	12.395	(0.954)	45551	25.0000	23.56
	57 Hexachlorobenzene	284	12.548	12.548	(0.966)	47571	25.0000	23.00
	58 Pentachlorophenol	266	12.883	12.883	(0.991)	25664	25.0000	22.28
*	59 Phenanthrene-d10	188	12.994	12.994	(1.000)	159025	20.0000	
	60 Phenanthrene	178	13.024	13.024	(1.002)	224321	25.0000	22.76
	61 Anthracene	178	13.094	13.094	(1.008)	222110	25.0000	23.12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	62 Carbazole	167	13.429	13.429	(1.033)	183482	25.0000	22.78
	63 Di-n-butylphthalate	149	14.257	14.257	(1.097)	241897	25.0000	23.20
	64 Fluoranthene	202	14.880	14.880	(1.145)	229922	25.0000	23.64
	65 Pyrene	202	15.203	15.203	(0.887)	241694	25.0000	23.27
$	66 Terphenyl-d14	244	15.620	15.620	(0.912)	147959	25.0000	21.70
	67 Butylbenzylphthalate	149	16.566	16.566	(0.967)	111795	25.0000	23.17
	68 Benzo(a)anthracene	228	17.118	17.118	(0.999)	247097	25.0000	23.43
*	69 Chrysene-d12	240	17.136	17.136	(1.000)	159466	20.0000	
	70 3,3'-Dichlorobenzidine	252	17.212	17.212	(1.004)	87395	25.0000	22.30
	71 Chrysene	228	17.177	17.177	(1.002)	233117	25.0000	22.70
	72 bis(2-Ethylhexyl)phthalate	149	17.606	17.606	(0.951)	154226	25.0000	22.86
*	134 Di-n-octylphthalate-d4	153	18.522	18.522	(1.000)	245174	20.0000	
	73 Di-n-octylphthalate	149	18.528	18.528	(1.000)	294993	25.0000	22.61
	74 Benzo(b)fluoranthene	252	18.710	18.710	(0.974)	263187	25.0000	20.80
	75 Benzo(k)fluoranthene	252	18.739	18.739	(0.976)	301393	25.0000	24.59(H)
	76 Benzo(a)pyrene	252	19.115	19.115	(0.995)	249557	25.0000	22.95
*	77 Perylene-d12	264	19.204	19.204	(1.000)	201890	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	20.514	20.514	(1.068)	305017	25.0000	24.92
	79 Dibenzo(a,h)anthracene	278	20.561	20.561	(1.071)	316603	25.0000	25.34
	80 Benzo(g,h,i)perylene	276	20.784	20.784	(1.082)	327689	25.0000	25.00
	90 N-Nitrosodimethylamine	74	1.181	1.181	(0.203)	93168	25.0000	22.40
	91 Aniline	93	5.363	5.363	(0.921)	165698	25.0000	22.18
	93 Benzidine	184	15.215	15.215	(0.888)	92113	25.0000	25.35
	103 Pyridine	79	1.169	1.169	(0.201)	148073	25.0000	20.46
	105 1-methylnaphthalene	141	9.241	9.241	(1.164)	131873	25.0000	23.71
	111 Azobenzene (1,2-DP-Hydrazine)	77	11.890	11.890	(1.108)	223783	25.0000	21.64

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: ic102701.d
Lab Smp Id: ABN 25
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem3/nt4.i/20081027.b/SW846.m
Misc Info:

Calibration Date: 27-OCT-2008
Calibration Time: 11:43

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	59818	29909	119636	59818	0.00
27 Naphthalene-d8	215926	107963	431852	215926	0.00
42 Acenaphthene-d10	106515	53258	213030	106515	0.00
59 Phenanthrene-d10	159025	79512	318050	159025	0.00
69 Chrysene-d12	159466	79733	318932	159466	0.00
134 Di-n-octylphthala	245174	122587	490348	245174	0.00
77 Perylene-d12	201890	100945	403780	201890	0.00

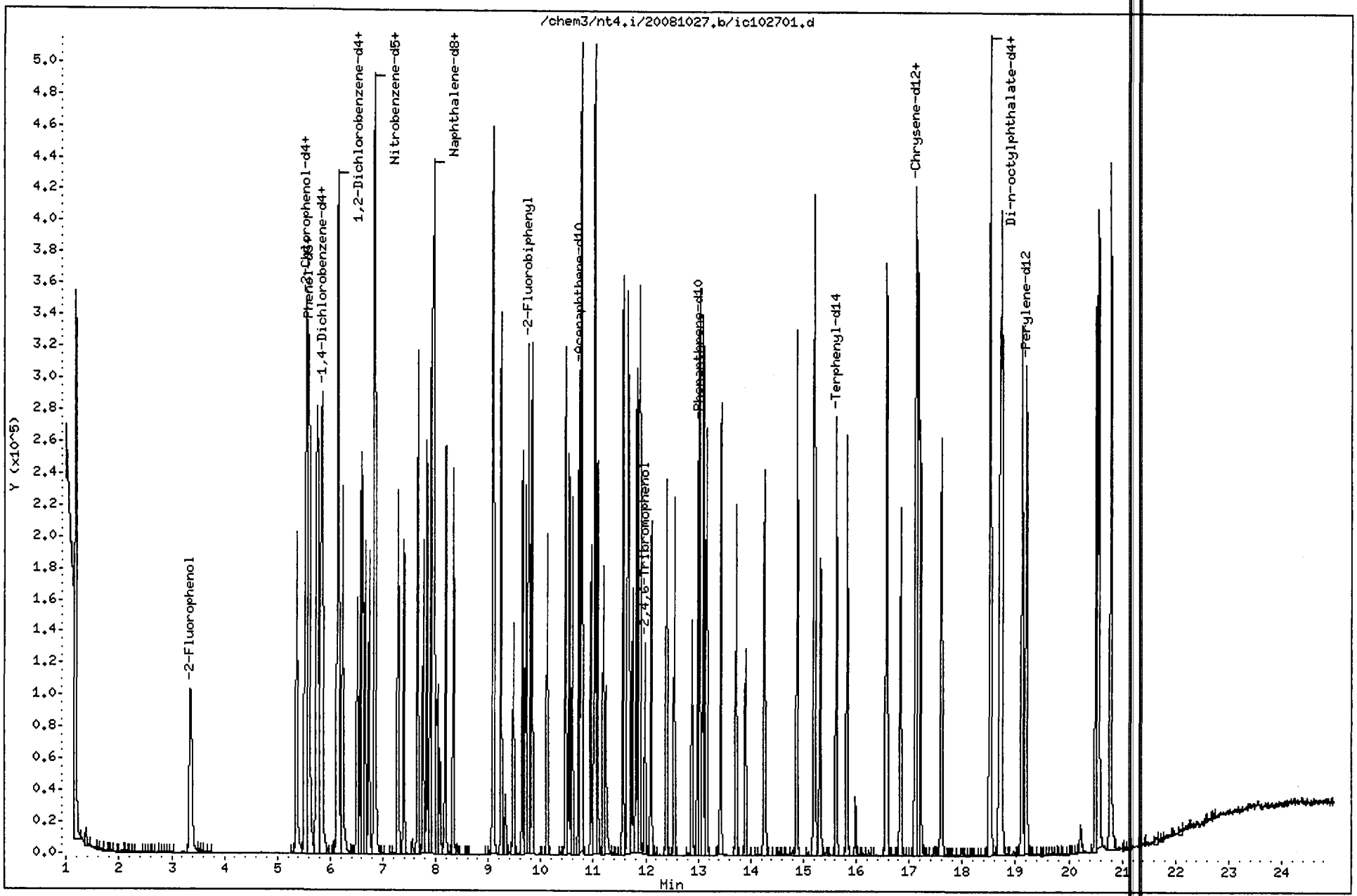
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	5.82	5.32	6.32	5.82	0.00
27 Naphthalene-d8	7.94	7.44	8.44	7.94	0.00
42 Acenaphthene-d10	10.73	10.23	11.23	10.73	0.00
59 Phenanthrene-d10	12.99	12.49	13.49	12.99	0.00
69 Chrysene-d12	17.14	16.64	17.64	17.14	0.00
134 Di-n-octylphthala	18.52	18.02	19.02	18.52	0.00
77 Perylene-d12	19.20	18.70	19.70	19.20	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20081027.b/ic102701.d
Date : 27-OCT-2008 11:43
Client ID:
Sample Info: ABN 25
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt4.i

Operator: LJR/VTS
Column diameter: 0.32



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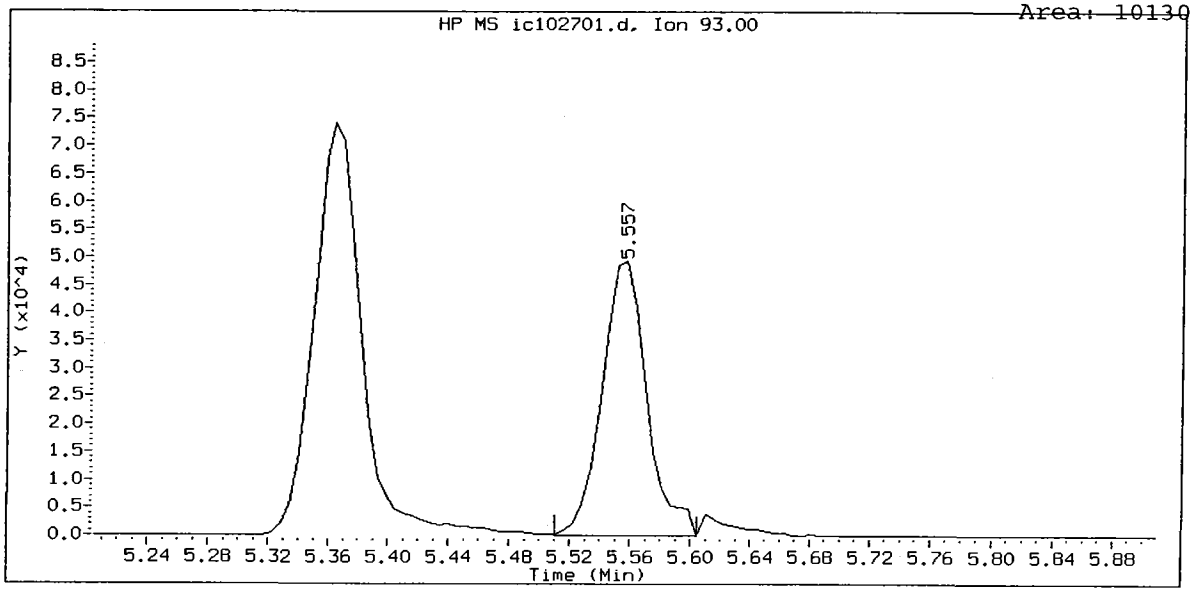
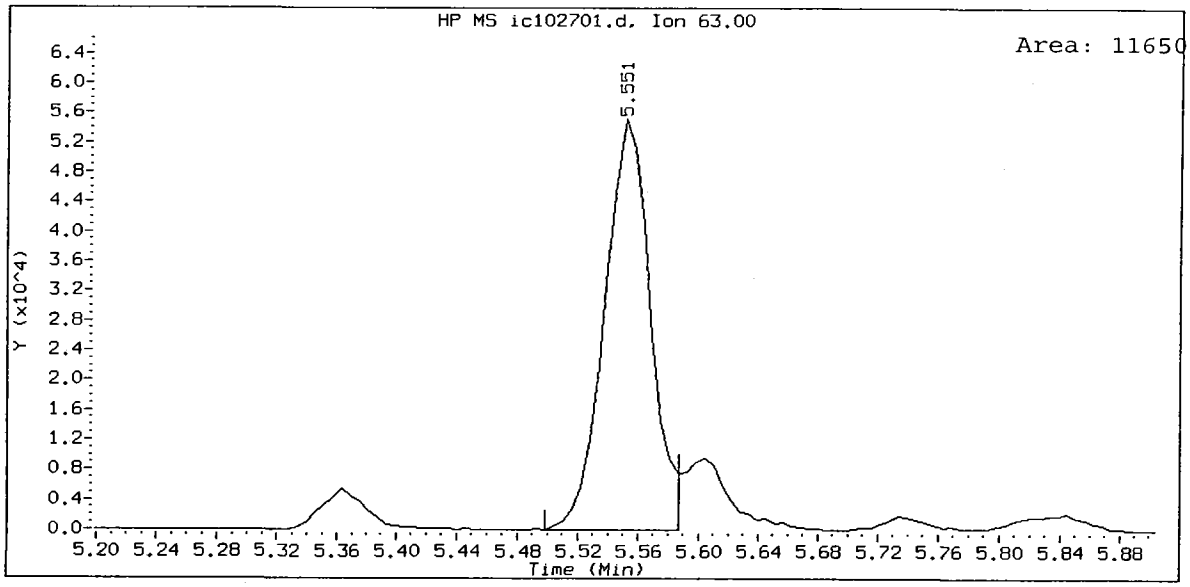
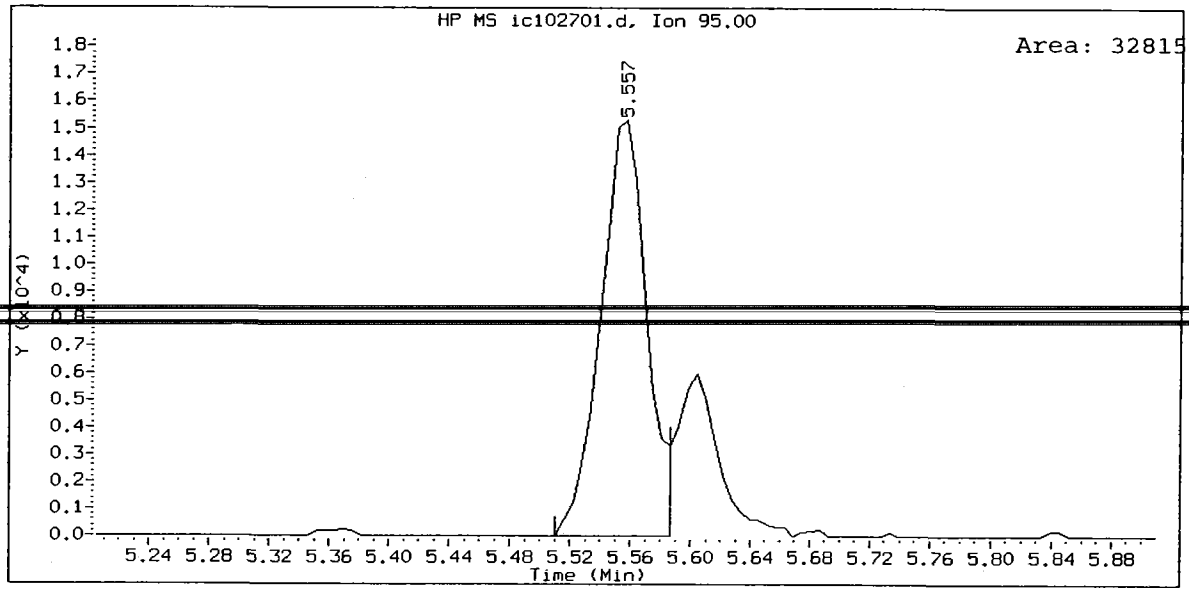
ABN 25, /chem3/nt4.i/20081027.b/ic102701.d
Bis(2-Chloroethyl)ether Amount: 23.35







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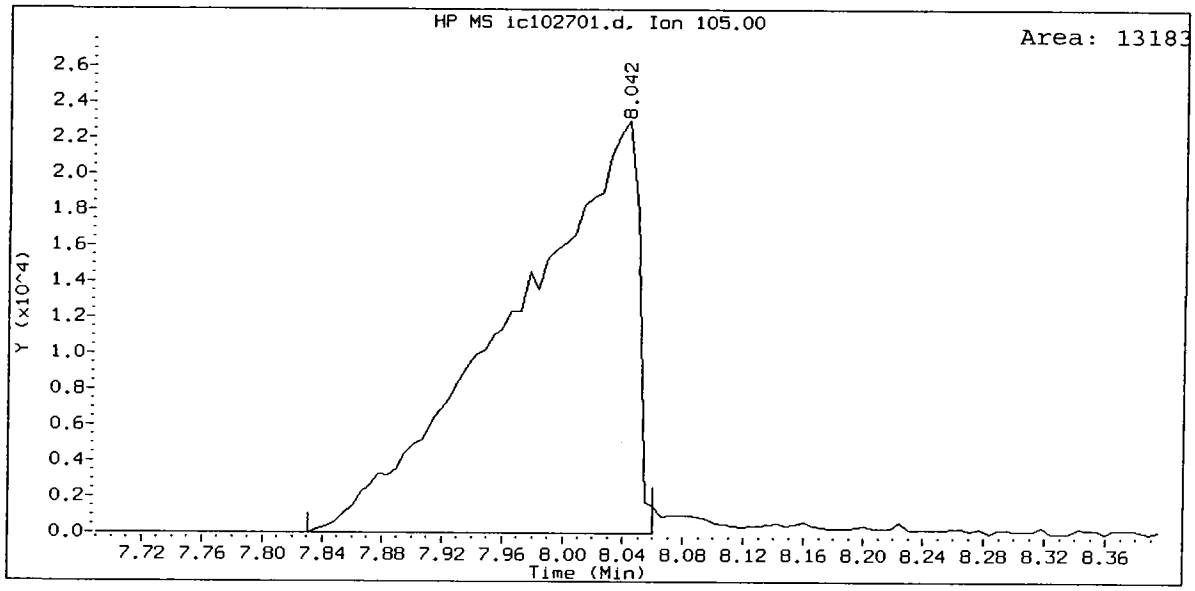
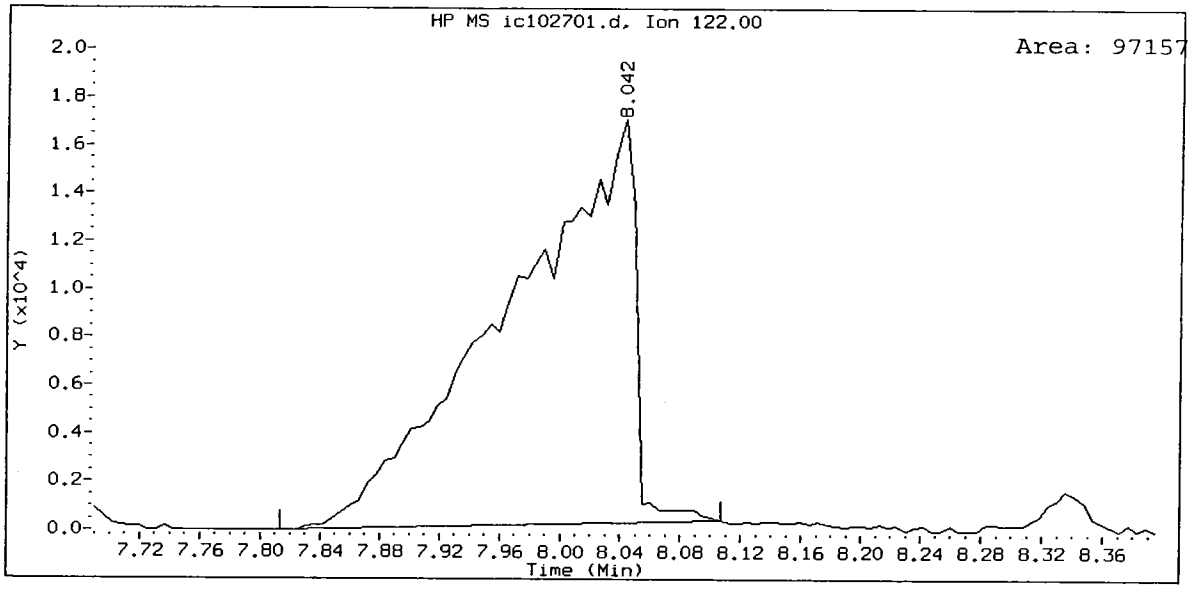
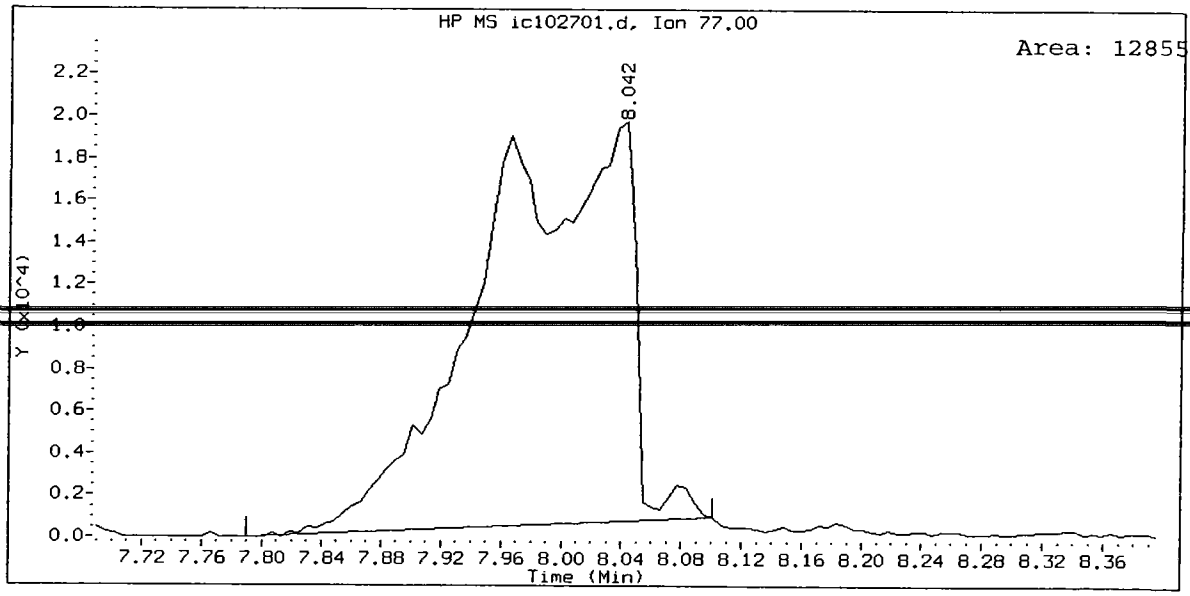
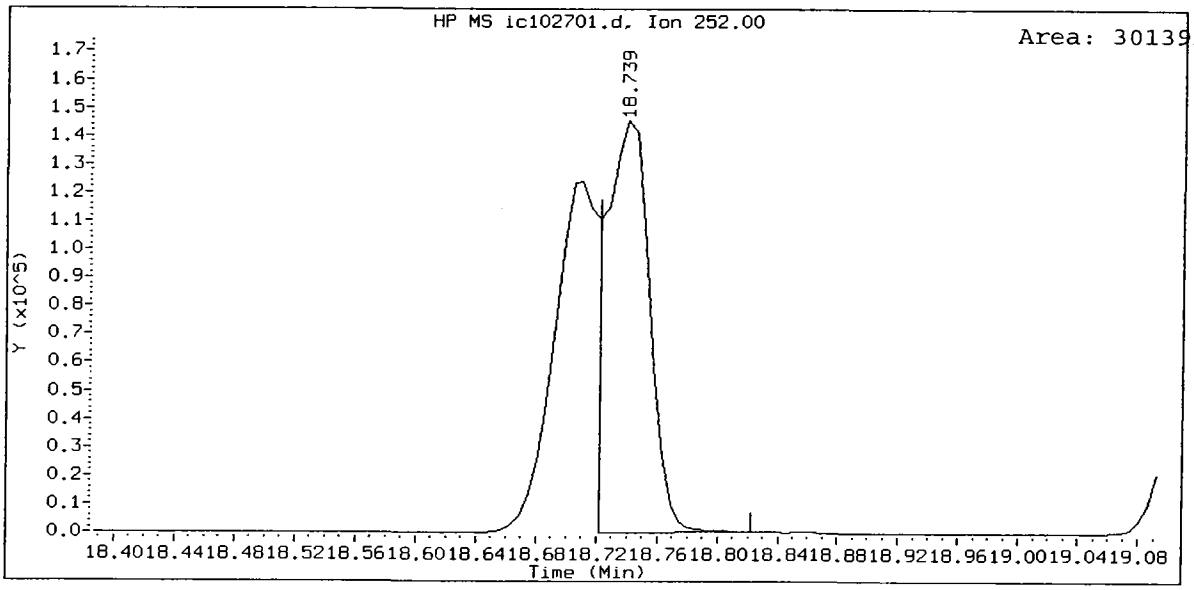
Benzoic acid Amount: 44.27

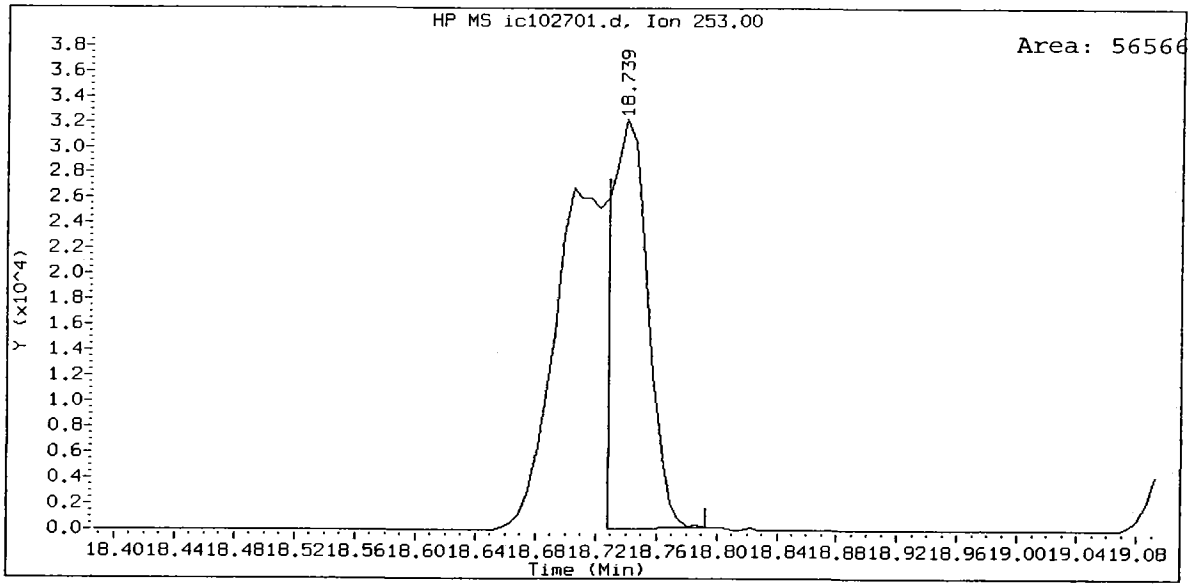


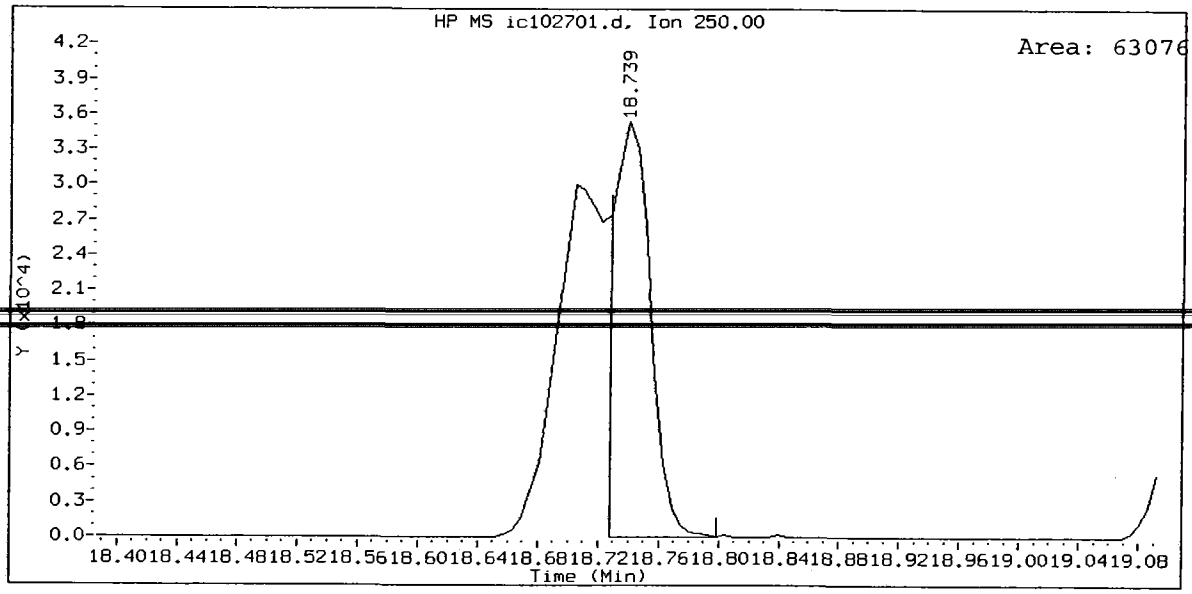




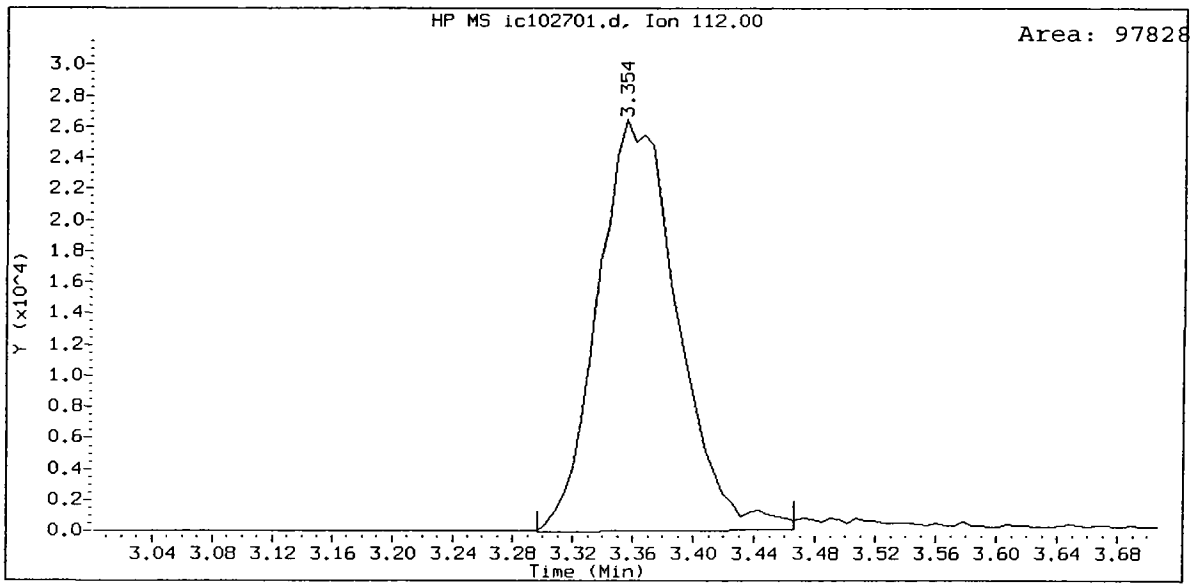
ABN 25, /chem3/nt4.i/20081027.b/ic102701.d
Benzo(k)fluoranthene Amount: 24.59

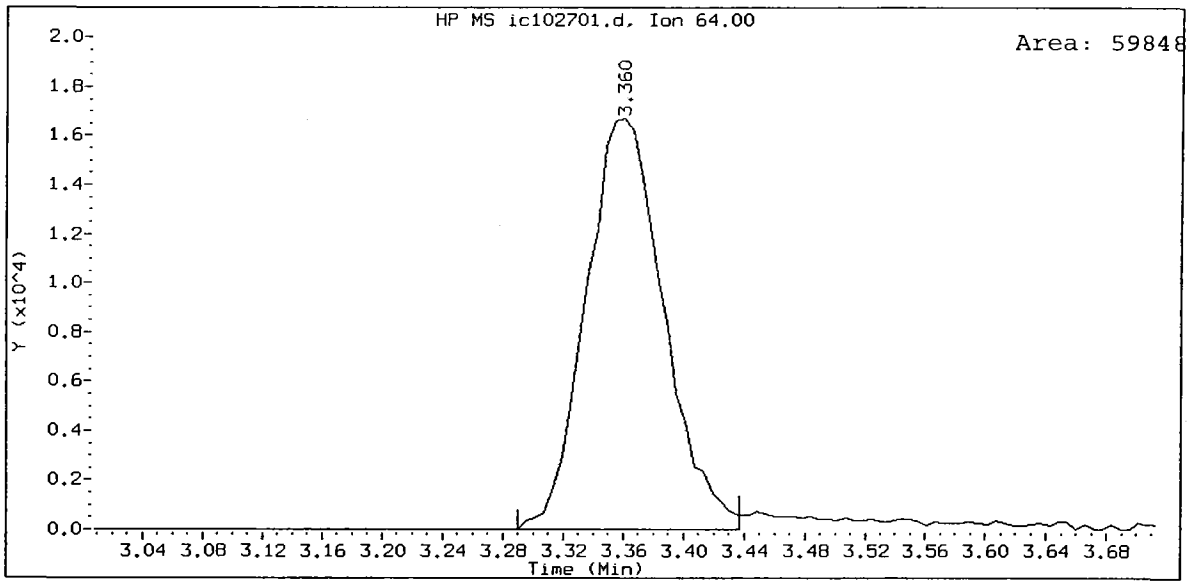






ABN 25, /chem3/nt4.i/20081027.b/ic102701.d
2-Fluorophenol Amount: 22.90





Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20081027.b/ic102701.d
Lab Smp Id: ABN 25
Inj Date : 27-OCT-2008 11:43
Operator : LJR/VTS Inst ID: nt4.i
Smp Info : ABN 25
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt4.i/20081027.b/SW846.m
Meth Date : 27-Oct-2008 16:10 peter Quant Type: ISTD
Cal Date : 27-OCT-2008 14:33 Cal File: ic102706.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	7.50000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	3.354	3.354	(0.576)	97828	25.0000	22.90(M)
$	2 Phenol-d5	99	5.587	5.587	(0.960)	134671	25.0000	22.62
	3 Phenol	94	5.604	5.604	(0.963)	139104	25.0000	24.07
$	5 2-Chlorophenol-d4	132	5.522	5.522	(0.949)	84700	25.0000	23.12
	4 Bis(2-Chloroethyl)ether	93	5.557	5.557	(0.955)	101302	25.0000	23.35(M)
	6 2-Chlorophenol	128	5.546	5.546	(0.953)	98053	25.0000	23.59
	7 1,3-Dichlorobenzene	146	5.739	5.739	(0.986)	102669	25.0000	23.13
*	8 1,4-Dichlorobenzene-d4	152	5.822	5.822	(1.000)	59818	20.0000	
	9 1,4-Dichlorobenzene	146	5.845	5.845	(1.004)	107241	25.0000	23.83
$	10 1,2-Dichlorobenzene-d4	152	6.133	6.133	(1.053)	60347	25.0000	22.64
	12 1,2-Dichlorobenzene	146	6.157	6.157	(1.058)	99297	25.0000	23.60
	11 Benzyl alcohol	108	6.233	6.233	(1.071)	61678	25.0000	21.20
	14 2,2'-oxybis(1-Chloropropane)	45	6.515	6.515	(1.119)	117083	25.0000	23.36
	13 2-Methylphenol	108	6.579	6.579	(1.130)	95271	25.0000	23.08

							AMOUNTS	
		QUANT SIG					CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	17 Hexachloroethane	117	6.662	6.662	(1.144)	45886	25.0000	23.51
	16 N-Nitroso-di-n-propylamine	70	6.738	6.738	(1.157)	80237	25.0000	22.84
	15 4-Methylphenol	108	6.838	6.838	(1.175)	99715	25.0000	23.04
$	18 Nitrobenzene-d5	82	6.838	6.838	(0.862)	114994	25.0000	21.73
	19 Nitrobenzene	77	6.861	6.861	(0.865)	166953	25.0000	22.75
	20 Isophorone	82	7.284	7.284	(0.918)	185505	25.0000	21.50
	21 2-Nitrophenol	139	7.396	7.396	(0.932)	48083	25.0000	22.45
	22 2,4-Dimethylphenol	107	7.660	7.660	(0.965)	102264	25.0000	23.03
	23 Bis(2-Chloroethoxy)methane	93	7.766	7.766	(0.979)	112481	25.0000	22.83
	24 Benzoic acid	105	8.042	8.042	(1.013)	131832	50.0000	44.27(M)
	25 2,4-Dichlorophenol	162	7.831	7.831	(0.987)	68715	25.0000	22.41
	26 1,2,4-Trichlorobenzene	180	7.901	7.901	(0.996)	82938	25.0000	23.91
*	27 Naphthalene-d8	136	7.936	7.936	(1.000)	215926	20.0000	
	28 Naphthalene	128	7.966	7.966	(1.004)	258827	25.0000	23.09
	29 4-Chloroaniline	127	8.189	8.189	(1.032)	103431	25.0000	22.21
	30 Hexachlorobutadiene	225	8.336	8.336	(1.050)	46663	25.0000	23.37
	31 4-Chloro-3-methylphenol	107	9.100	9.100	(1.147)	82351	25.0000	22.47
	32 2-Methylnaphthalene	141	9.088	9.088	(1.145)	136704	25.0000	20.80
	33 Hexachlorocyclopentadiene	237	9.481	9.481	(0.884)	34980	25.0000	22.31
	34 2,4,6-Trichlorophenol	196	9.646	9.646	(0.899)	48487	25.0000	22.68
	35 2,4,5-Trichlorophenol	196	9.711	9.711	(0.905)	50531	25.0000	22.35
$	36 2-Fluorobiphenyl	172	9.763	9.763	(0.910)	156979	25.0000	21.59
	37 2-Chloronaphthalene	162	9.828	9.828	(0.916)	146135	25.0000	23.16
	38 2-Nitroaniline	65	10.122	10.122	(0.944)	57442	25.0000	20.57
	39 Dimethylphthalate	163	10.539	10.539	(0.982)	155173	25.0000	22.95
	40 Acenaphthylene	152	10.474	10.474	(0.976)	220740	25.0000	21.60
	41 2,6-Dinitrotoluene	165	10.603	10.603	(0.988)	36590	25.0000	23.24
*	42 Acenaphthene-d10	164	10.727	10.727	(1.000)	106515	20.0000	
	43 3-Nitroaniline	138	10.786	10.786	(1.005)	40048	25.0000	21.98
	44 Acenaphthene	153	10.774	10.774	(1.004)	147730	25.0000	21.88
	45 2,4-Dinitrophenol	184	10.956	10.956	(1.021)	36287	50.0000	47.20
	46 Dibenzofuran	168	11.032	11.032	(1.028)	187474	25.0000	20.08
	47 4-Nitrophenol	109	11.238	11.238	(1.048)	29227	25.0000	23.41
	48 2,4-Dinitrotoluene	165	11.197	11.197	(1.044)	45269	25.0000	22.84
	50 Diethylphthalate	149	11.678	11.678	(1.089)	169111	25.0000	23.22
	49 Fluorene	166	11.567	11.567	(1.078)	159283	25.0000	23.12
	51 4-Chlorophenyl-phenylether	204	11.655	11.655	(1.087)	77028	25.0000	22.81
	52 4-Nitroaniline	138	11.749	11.749	(1.095)	37604	25.0000	21.94
	53 4,6-Dinitro-2-methylphenol	198	11.825	11.825	(0.910)	65177	50.0000	47.33
	54 N-Nitrosodiphenylamine	169	11.872	11.872	(0.914)	75944	25.0000	17.03
$	55 2,4,6-Tribromophenol	330	11.984	11.984	(1.117)	21202	25.0000	21.59
	56 4-Bromophenyl-phenylether	248	12.395	12.395	(0.954)	45551	25.0000	23.56
	57 Hexachlorobenzene	284	12.548	12.548	(0.966)	47571	25.0000	23.00
	58 Pentachlorophenol	266	12.883	12.883	(0.991)	25664	25.0000	22.28
*	59 Phenanthrene-d10	188	12.994	12.994	(1.000)	159025	20.0000	
	60 Phenanthrene	178	13.024	13.024	(1.002)	224321	25.0000	22.76
	61 Anthracene	178	13.094	13.094	(1.008)	222110	25.0000	23.12

							AMOUNTS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	62 Carbazole	167	13.429	13.429	(1.033)	183482	25.0000	22.78
	63 Di-n-butylphthalate	149	14.257	14.257	(1.097)	241897	25.0000	23.20
	64 Fluoranthene	202	14.880	14.880	(1.145)	229922	25.0000	23.64
	65 Pyrene	202	15.203	15.203	(0.887)	241694	25.0000	23.27
$	66 Terphenyl-d14	244	15.620	15.620	(0.912)	147959	25.0000	21.70
	67 Butylbenzylphthalate	149	16.566	16.566	(0.967)	111795	25.0000	23.17
	68 Benzo(a)anthracene	228	17.118	17.118	(0.999)	247097	25.0000	23.43
*	69 Chrysene-d12	240	17.136	17.136	(1.000)	159466	20.0000	
	70 3,3'-Dichlorobenzidine	252	17.212	17.212	(1.004)	87395	25.0000	22.30
	71 Chrysene	228	17.177	17.177	(1.002)	233117	25.0000	22.70
	72 bis(2-Ethylhexyl)phthalate	149	17.606	17.606	(0.951)	154226	25.0000	22.86
*	134 Di-n-octylphthalate-d4	153	18.522	18.522	(1.000)	245174	20.0000	
	73 Di-n-octylphthalate	149	18.528	18.528	(1.000)	294993	25.0000	22.61
	74 Benzo(b)fluoranthene	252	18.710	18.710	(0.974)	263187	25.0000	20.80
	75 Benzo(k)fluoranthene	252	18.739	18.739	(0.976)	301393	25.0000	24.59(H)
	76 Benzo(a)pyrene	252	19.115	19.115	(0.995)	249557	25.0000	22.95
*	77 Perylene-d12	264	19.204	19.204	(1.000)	201890	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	20.514	20.514	(1.068)	305017	25.0000	24.92
	79 Dibenzo(a,h)anthracene	278	20.561	20.561	(1.071)	316603	25.0000	25.34
	80 Benzo(g,h,i)perylene	276	20.784	20.784	(1.082)	327689	25.0000	25.00
	90 N-Nitrosodimethylamine	74	1.181	1.181	(0.203)	93168	25.0000	22.40
	91 Aniline	93	5.363	5.363	(0.921)	165698	25.0000	22.18
	93 Benzidine	184	15.215	15.215	(0.888)	92113	25.0000	25.35
	103 Pyridine	79	1.169	1.169	(0.201)	148073	25.0000	20.46
	105 1-methylnaphthalene	141	9.241	9.241	(1.164)	131873	25.0000	23.71
	111 Azobenzene (1,2-DP-Hydrazine)	77	11.890	11.890	(1.108)	223783	25.0000	21.64

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: ic102701.d
Lab Smp Id: ABN 25
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem3/nt4.i/20081027.b/SW846.m
Misc Info:

Calibration Date: 27-OCT-2008
Calibration Time: 11:43

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	59818	29909	119636	59818	0.00
27 Naphthalene-d8	215926	107963	431852	215926	0.00
42 Acenaphthene-d10	106515	53258	213030	106515	0.00
59 Phenanthrene-d10	159025	79512	318050	159025	0.00
69 Chrysene-d12	159466	79733	318932	159466	0.00
134 Di-n-octylphthala	245174	122587	490348	245174	0.00
77 Perylene-d12	201890	100945	403780	201890	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	5.82	5.32	6.32	5.82	0.00
27 Naphthalene-d8	7.94	7.44	8.44	7.94	0.00
42 Acenaphthene-d10	10.73	10.23	11.23	10.73	0.00
59 Phenanthrene-d10	12.99	12.49	13.49	12.99	0.00
69 Chrysene-d12	17.14	16.64	17.64	17.14	0.00
134 Di-n-octylphthala	18.52	18.02	19.02	18.52	0.00
77 Perylene-d12	19.20	18.70	19.70	19.20	0.00

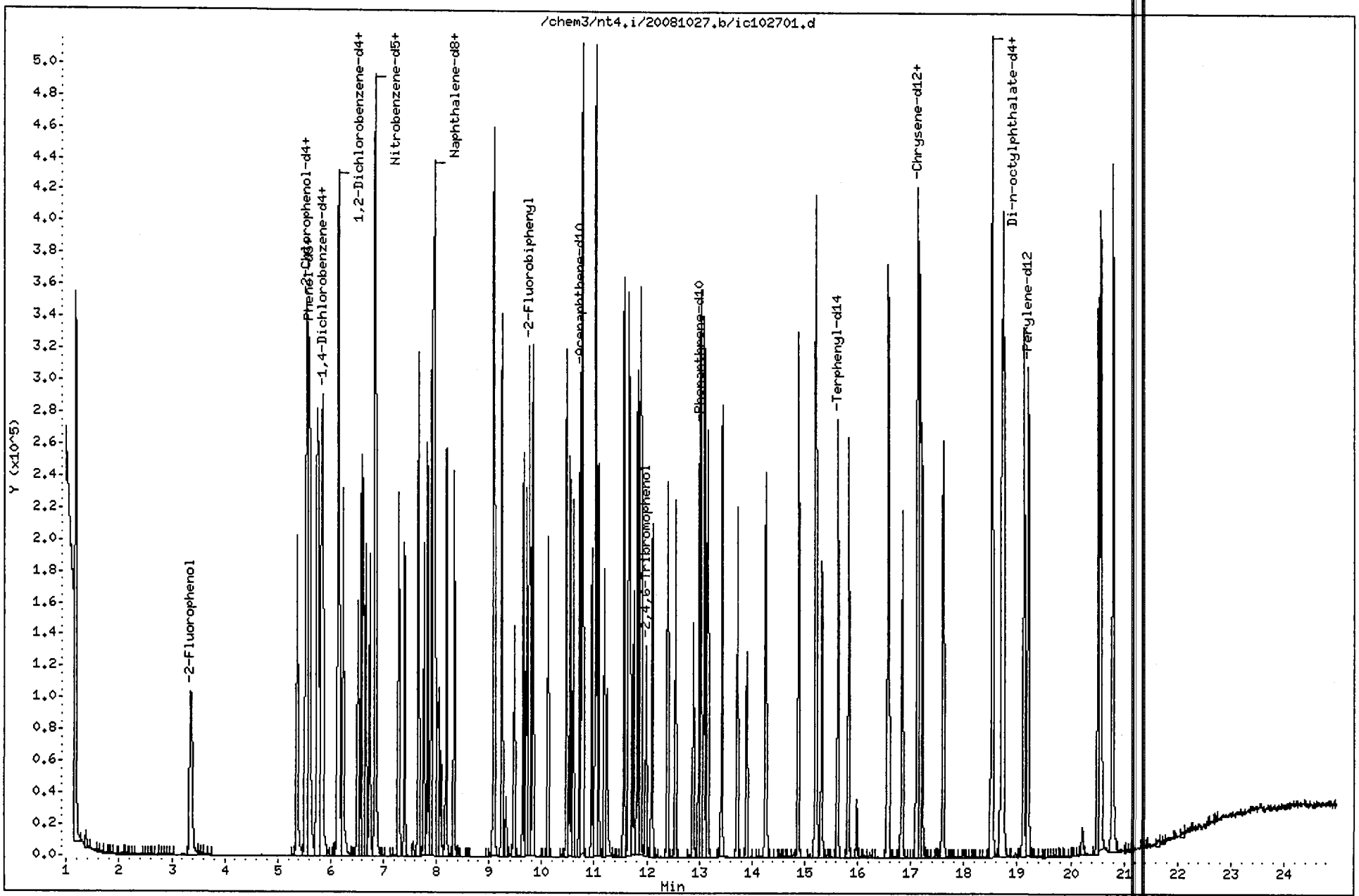
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20081027.b/ic102701.d
Date : 27-OCT-2008 11:43
Client ID:
Sample Info: ABN 25
Volume Injected (uL): 1.0
Column phase: ZB-5

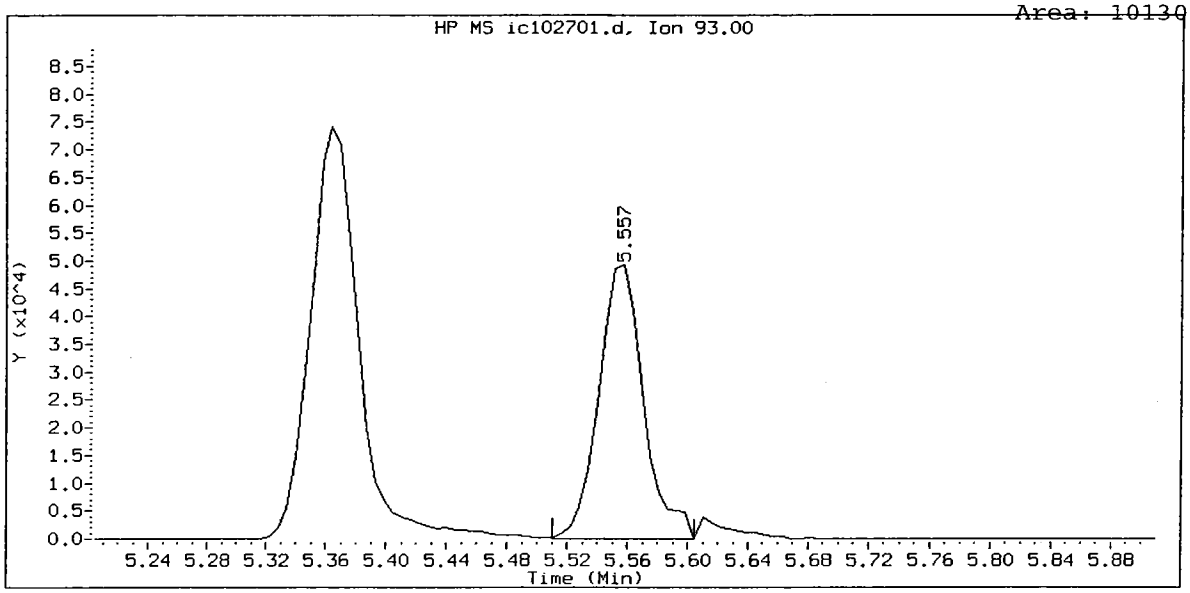
Instrument: nt4.i

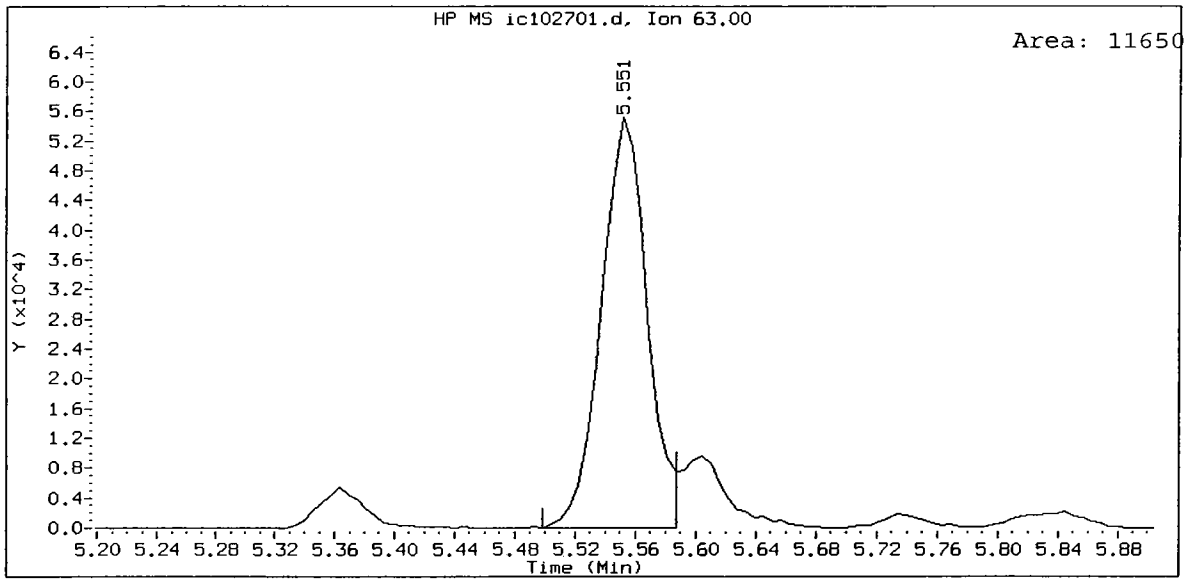
Operator: LJR/VTS
Column diameter: 0.32

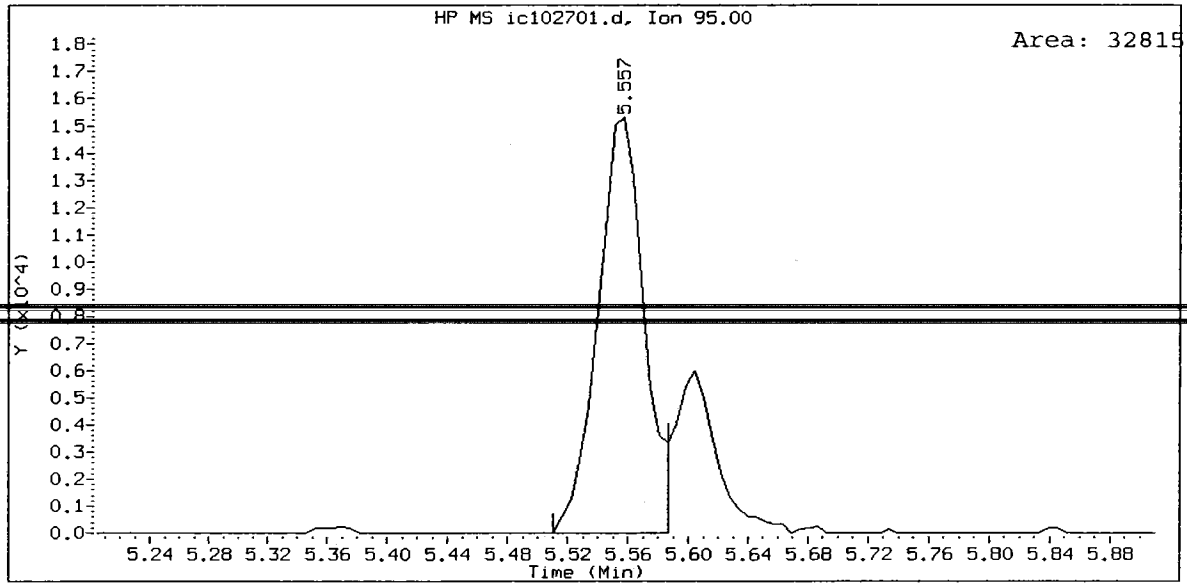
0078



ABN 25, /chem3/nt4.i/20081027.b/ic102701.d
Bis(2-Chloroethyl)ether Amount: 23.35







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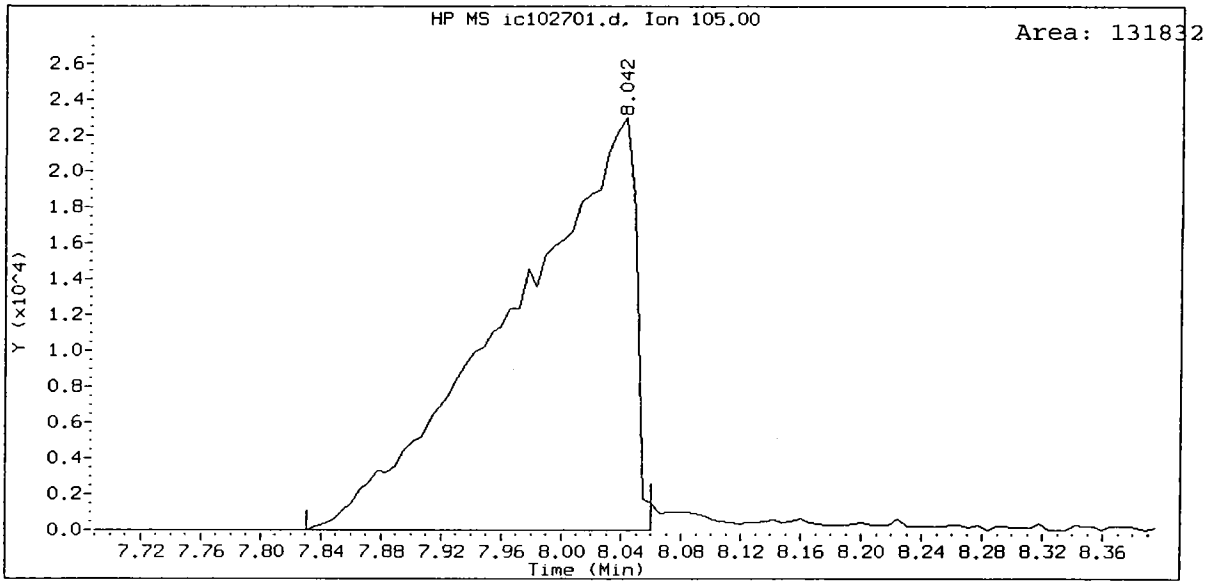
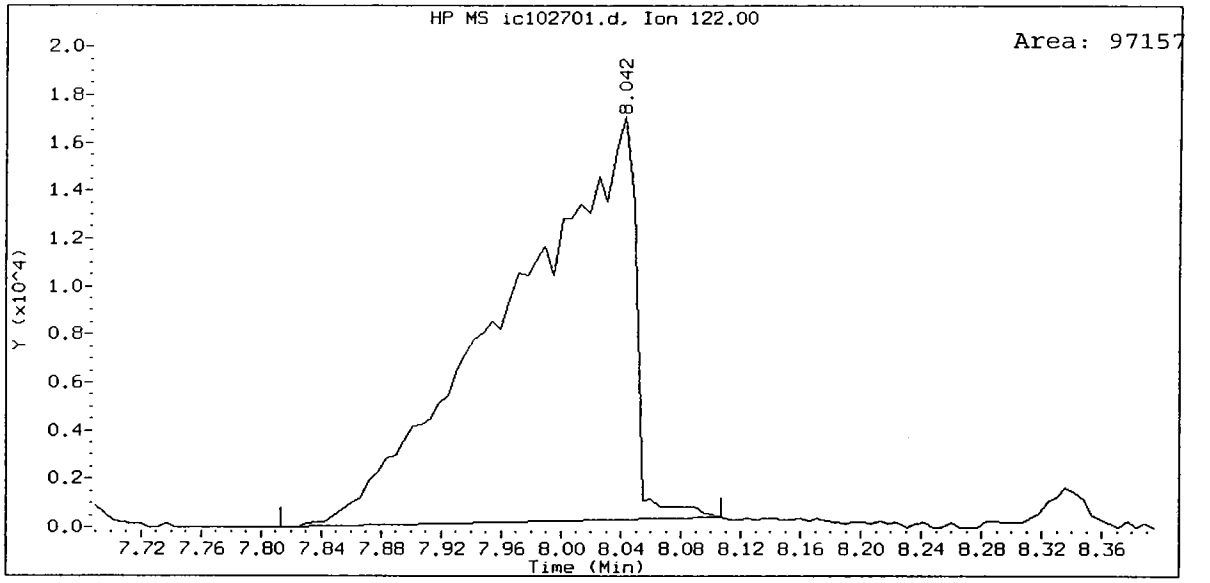
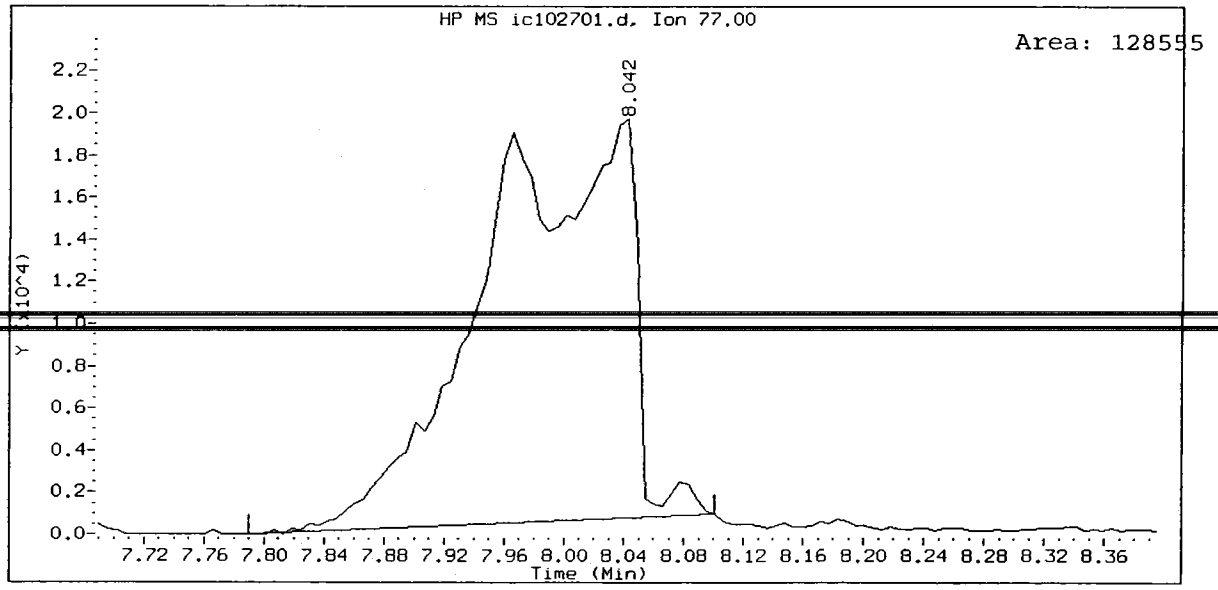
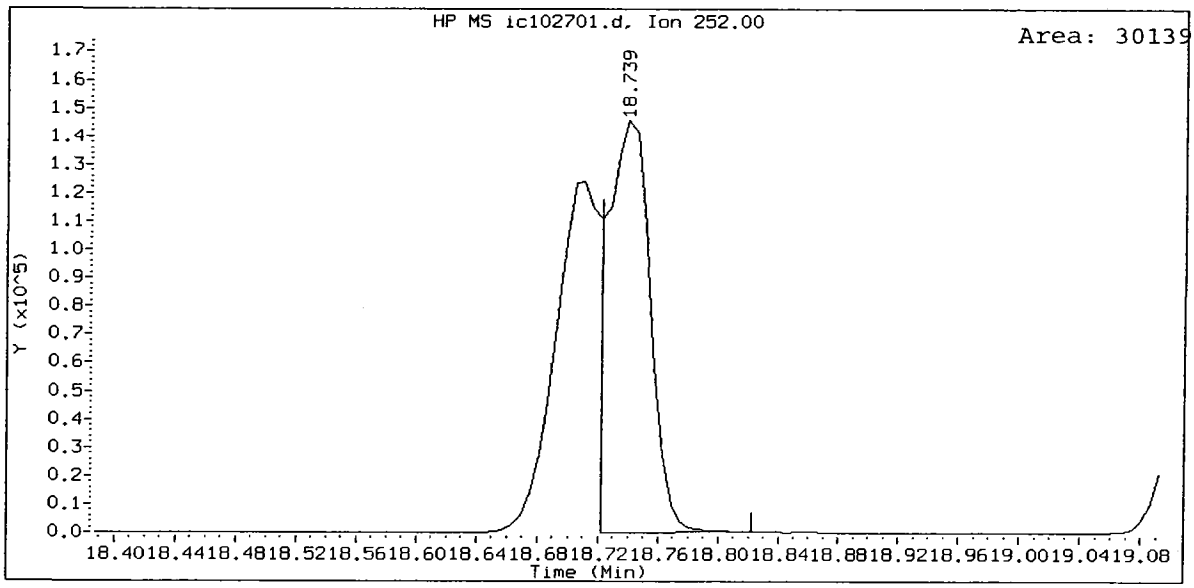
Benzoic acid Amount: 44.27

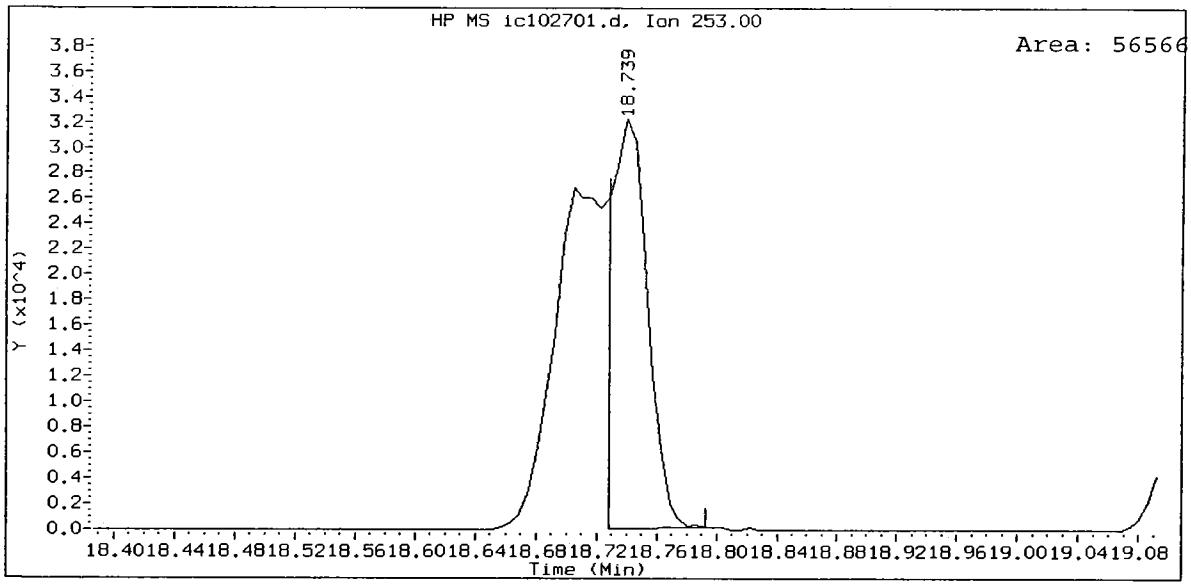


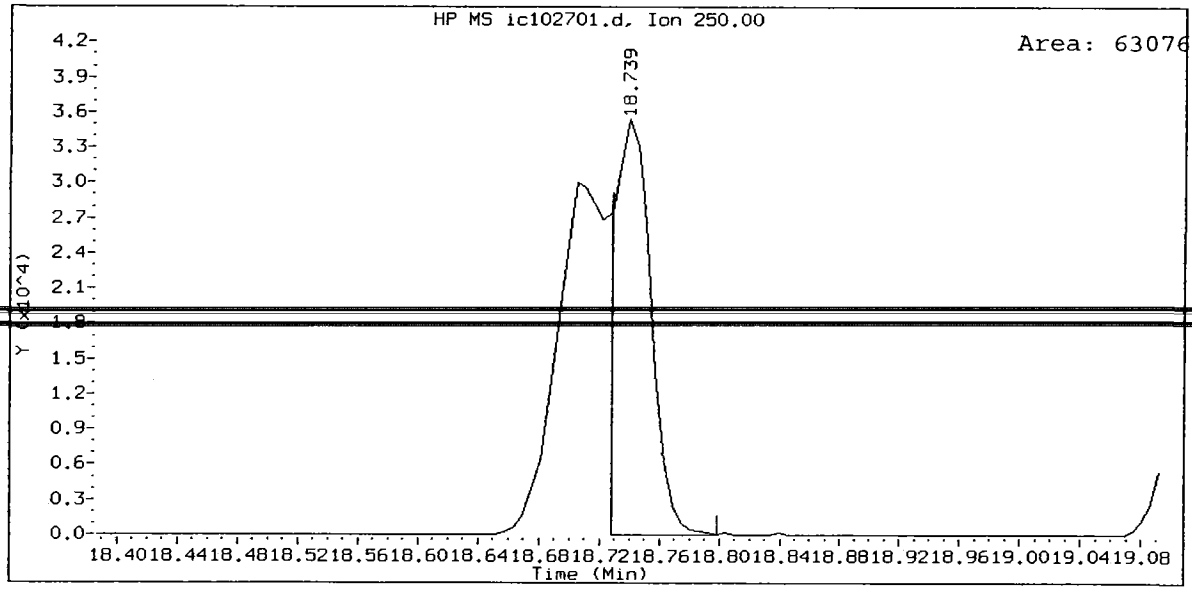




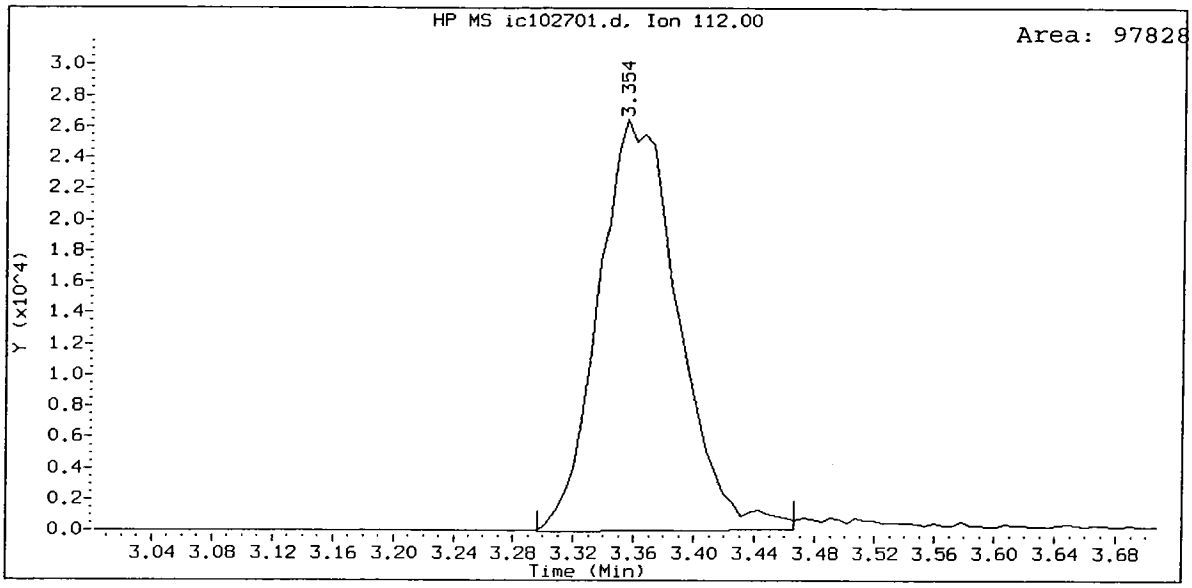
ABN 25, /chem3/nt4.i/20081027.b/ic102701.d
Benzo(k)fluoranthene Amount: 24.59

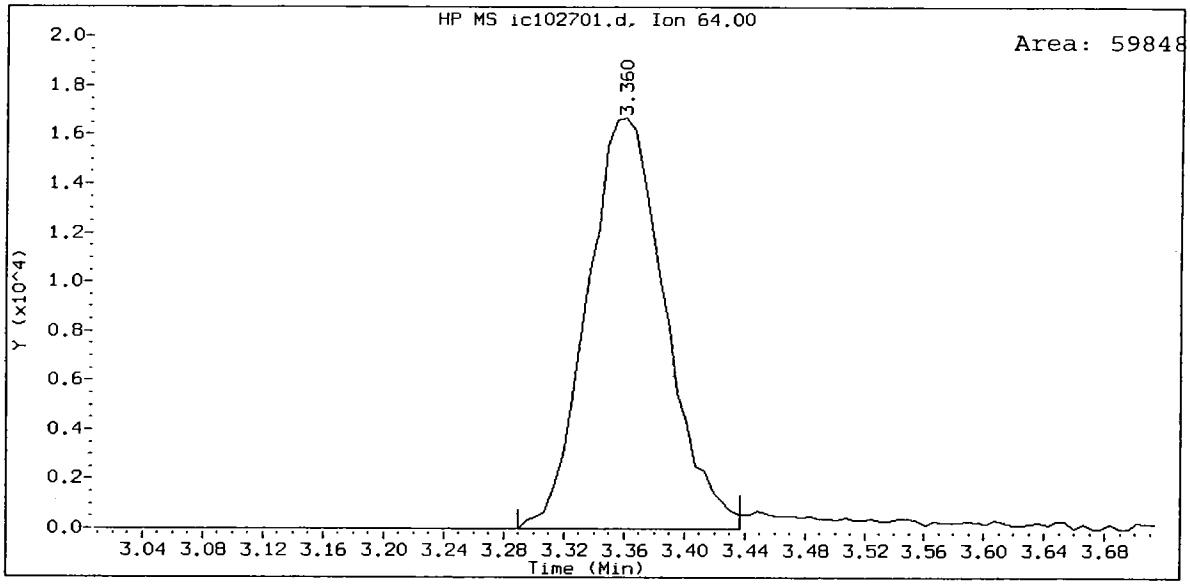






ABN 25, /chem3/nt4.i/20081027.b/ic102701.d
2-Fluorophenol Amount: 22.90





Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20081027.b/ic102702.d
Lab Smp Id: ABN 80
Inj Date : 27-OCT-2008 12:17
Operator : LJR/VTS Inst ID: nt4.i
Smp Info : ABN 80
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt4.i/20081027.b/SW846.m
Meth Date : 27-Oct-2008 16:10 peter Quant Type: ISTD
Cal Date : 27-OCT-2008 14:33 Cal File: ic102706.d
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	7.50000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	3.366	3.354	(0.578)	313331	80.0000	80.08
$	2 Phenol-d5	99	5.604	5.587	(0.962)	445125	80.0000	81.61
	3 Phenol	94	5.628	5.604	(0.966)	456111	80.0000	86.16
$	5 2-Chlorophenol-d4	132	5.534	5.522	(0.950)	278957	80.0000	83.10
	4 Bis(2-Chloroethyl)ether	93	5.569	5.557	(0.956)	329722	80.0000	82.94
	6 2-Chlorophenol	128	5.558	5.546	(0.954)	324563	80.0000	85.23
	7 1,3-Dichlorobenzene	146	5.745	5.739	(0.986)	341243	80.0000	83.91
*	8 1,4-Dichlorobenzene-d4	152	5.828	5.822	(1.000)	54801	20.0000	
	9 1,4-Dichlorobenzene	146	5.857	5.845	(1.005)	351425	80.0000	85.25
$	10 1,2-Dichlorobenzene-d4	152	6.139	6.133	(1.053)	204515	80.0000	83.74
	12 1,2-Dichlorobenzene	146	6.163	6.157	(1.057)	327661	80.0000	84.99
	11 Benzyl alcohol	108	6.251	6.233	(1.073)	217370	80.0000	81.57
	14 2,2'-oxybis(1-Chloropropane)	45	6.515	6.515	(1.118)	384068	80.0000	83.65
	13 2-Methylphenol	108	6.597	6.579	(1.132)	319353	80.0000	84.46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	17 Hexachloroethane	117	6:668	6.662	(1.144)	152466	80.0000	85.27
	16 N-Nitroso-di-n-propylamine	70	6.774	6.738	(1.162)	265824	80.0000	82.61
	15 4-Methylphenol	108	6.856	6.838	(1.176)	347409	80.0000	87.62
$	18 Nitrobenzene-d5	82	6.856	6.838	(0.863)	387665	80.0000	81.17
	19 Nitrobenzene	77	6.885	6.861	(0.867)	543859	80.0000	82.10
	20 Isophorone	82	7.308	7.284	(0.920)	653828	80.0000	83.97
	21 2-Nitrophenol	139	7.408	7.396	(0.933)	163509	80.0000	84.60
	22 2,4-Dimethylphenol	107	7.672	7.660	(0.966)	336552	80.0000	83.99
	23 Bis(2-Chloroethoxy)methane	93	7.778	7.766	(0.979)	371653	80.0000	83.57
	24 Benzoic acid	105	8.189	8.042	(1.031)	480305	160.000	159.1(M)
	25 2,4-Dichlorophenol	162	7.843	7.831	(0.987)	232768	80.0000	84.10
	26 1,2,4-Trichlorobenzene	180	7.913	7.901	(0.996)	269719	80.0000	86.17
*	27 Naphthalene-d8	136	7.942	7.936	(1.000)	194864	20.0000	
	28 Naphthalene	128	7.978	7.966	(1.004)	845037	80.0000	83.53
	29 4-Chloroaniline	127	8.195	8.189	(1.032)	307811	80.0000	73.25
	30 Hexachlorobutadiene	225	8.336	8.336	(1.050)	153139	80.0000	84.99
	31 4-Chloro-3-methylphenol	107	9.112	9.100	(1.147)	278018	80.0000	84.07
	32 2-Methylnaphthalene	141	9.094	9.088	(1.145)	492329	80.0000	83.01
	33 Hexachlorocyclopentadiene	237	9.482	9.481	(0.884)	146568	80.0000	104.2
	34 2,4,6-Trichlorophenol	196	9.652	9.646	(0.900)	167576	80.0000	87.35
	35 2,4,5-Trichlorophenol	196	9.717	9.711	(0.906)	175243	80.0000	86.35
$	36 2-Fluorobiphenyl	172	9.775	9.763	(0.911)	551252	80.0000	84.49
	37 2-Chloronaphthalene	162	9.840	9.828	(0.917)	495636	80.0000	87.54
	38 2-Nitroaniline	65	10.134	10.122	(0.945)	197538	80.0000	78.83
	39 Dimethylphthalate	163	10.562	10.539	(0.985)	516103	80.0000	85.04
	40 Acenaphthylene	152	10.480	10.474	(0.977)	809430	80.0000	88.24
	41 2,6-Dinitrotoluene	165	10.621	10.603	(0.990)	118999	80.0000	84.23
*	42 Acenaphthene-d10	164	10.727	10.727	(1.000)	95590	20.0000	
	43 3-Nitroaniline	138	10.815	10.786	(1.008)	110045	80.0000	67.31
	44 Acenaphthene	153	10.780	10.774	(1.005)	545008	80.0000	89.95
	45 2,4-Dinitrophenol	184	10.980	10.956	(1.024)	141466	160.000	162.7
	46 Dibenzofuran	168	11.050	11.032	(1.030)	695191	80.0000	82.97
	47 4-Nitrophenol	109	11.244	11.238	(1.048)	98307	80.0000	87.75
	48 2,4-Dinitrotoluene	165	11.215	11.197	(1.045)	156865	80.0000	88.18
	50 Diethylphthalate	149	11.696	11.678	(1.090)	538138	80.0000	79.92
	49 Fluorene	166	11.579	11.567	(1.079)	568045	80.0000	91.89
	51 4-Chlorophenyl-phenylether	204	11.661	11.655	(1.087)	271270	80.0000	89.50
	52 4-Nitroaniline	138	11.790	11.749	(1.099)	124840	80.0000	81.15
	53 4,6-Dinitro-2-methylphenol	198	11.855	11.825	(0.912)	216624	160.000	162.7
	54 N-Nitrosodiphenylamine	169	11.896	11.872	(0.915)	398743	80.0000	80.74
$	55 2,4,6-Tribromophenol	330	11.996	11.984	(1.118)	79932	80.0000	90.69
	56 4-Bromophenyl-phenylether	248	12.401	12.395	(0.954)	158142	80.0000	84.58
	57 Hexachlorobenzene	284	12.560	12.548	(0.966)	162607	80.0000	81.27
	58 Pentachlorophenol	266	12.895	12.883	(0.992)	101459	80.0000	80.57
*	59 Phenanthrene-d10	188	13.000	12.994	(1.000)	153801	20.0000	
	60 Phenanthrene	178	13.041	13.024	(1.003)	823477	80.0000	86.38
	61 Anthracene	178	13.112	13.094	(1.009)	786663	80.0000	84.68

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
62	Carbazole	167	13.447	13.429	(1.034)	663474	80.0000	85.17
63	Di-n-butylphthalate	149	14.263	14.257	(1.097)	852460	80.0000	84.53
64	Fluoranthene	202	14.892	14.880	(1.145)	804966	80.0000	85.58
65	Pyrene	202	15.209	15.203	(0.887)	852974	80.0000	83.66
$ 66	Terphenyl-d14	244	15.632	15.620	(0.911)	542805	80.0000	81.08
67	Butylbenzylphthalate	149	16.572	16.566	(0.966)	403252	80.0000	85.14
68	Benzo(a)anthracene	228	17.136	17.118	(0.999)	837318	80.0000	80.87
* 69	Chrysene-d12	240	17.154	17.136	(1.000)	156559	20.0000	
70	3,3'-Dichlorobenzidine	252	17.224	17.212	(1.004)	283142	80.0000	73.58
71	Chrysene	228	17.195	17.177	(1.002)	854220	80.0000	84.72
72	bis(2-Ethylhexyl)phthalate	149	17.606	17.606	(0.950)	550460	80.0000	82.85
* 134	Di-n-octylphthalate-d4	153	18.528	18.522	(1.000)	241452	20.0000	
73	Di-n-octylphthalate	149	18.540	18.528	(1.001)	1021096	80.0000	79.45
74	Benzo(b)fluoranthene	252	18.740	18.710	(0.976)	1106958	80.0000	96.99(H)
75	Benzo(k)fluoranthene	252	18.769	18.739	(0.977)	913732	80.0000	82.65(H)
76	Benzo(a)pyrene	252	19.145	19.115	(0.997)	891534	80.0000	90.90
* 77	Perylene-d12	264	19.210	19.204	(1.000)	182121	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	20.537	20.514	(1.069)	1036893	80.0000	93.90
79	Dibenzo(a,h)anthracene	278	20.590	20.561	(1.072)	1062828	80.0000	94.30
80	Benzo(g,h,i)perylene	276	20.819	20.784	(1.084)	1069225	80.0000	90.44
90	N-Nitrosodimethylamine	74	1.199	1.181	(0.206)	305527	80.0000	80.18
91	Aniline	93	5.375	5.363	(0.922)	517090	80.0000	75.56
93	Benzidine	184	15.227	15.215	(0.888)	279687	80.0000	78.39
103	Pyridine	79	1.175	1.169	(0.202)	551911	80.0000	83.26
105	1-methylnaphthalene	141	9.252	9.241	(1.165)	427687	80.0000	85.22
111	Azobenzene (1,2-DP-Hydrazine)	77	11.902	11.890	(1.110)	817631	80.0000	88.11

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: ic102702.d
Lab Smp Id: ABN 80
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem3/nt4.i/20081027.b/SW846.m
Misc Info:

Calibration Date: 27-OCT-2008
Calibration Time: 11:43

Level: LOW
Sample Type: SOIL

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	59818	29909	119636	54801	-8.39
27 Naphthalene-d8	215926	107963	431852	194864	-9.75
42 Acenaphthene-d10	106515	53258	213030	95590	-10.26
59 Phenanthrene-d10	159025	79512	318050	153801	-3.29
69 Chrysene-d12	159466	79733	318932	156559	-1.82
134 Di-n-octylphthala	245174	122587	490348	241452	-1.52
77 Perylene-d12	201890	100945	403780	182121	-9.79

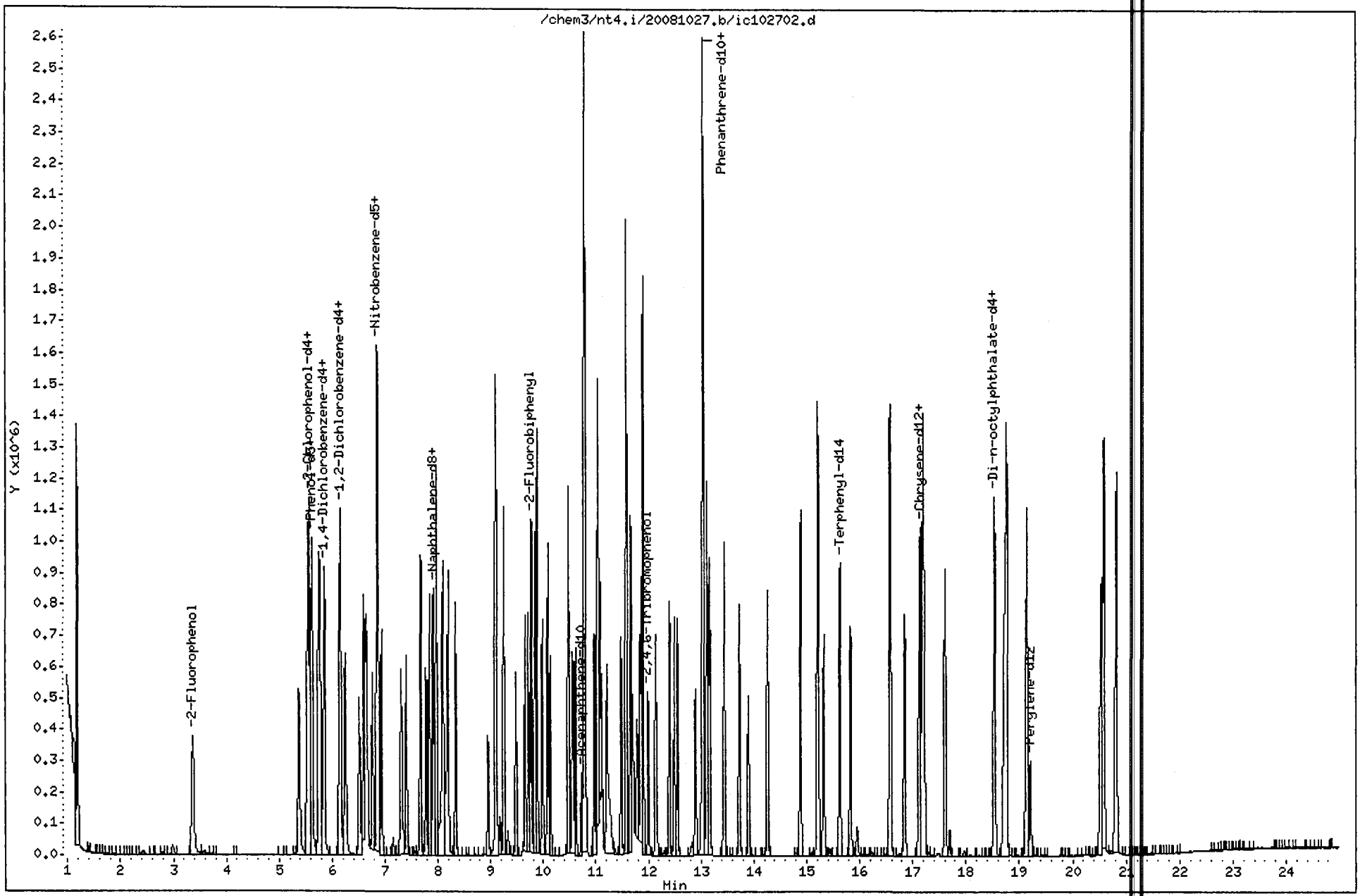
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	5.82	5.32	6.32	5.83	0.10
27 Naphthalene-d8	7.94	7.44	8.44	7.94	0.08
42 Acenaphthene-d10	10.73	10.23	11.23	10.73	0.00
59 Phenanthrene-d10	12.99	12.49	13.49	13.00	0.05
69 Chrysene-d12	17.14	16.64	17.64	17.15	0.10
134 Di-n-octylphthala	18.52	18.02	19.02	18.53	0.03
77 Perylene-d12	19.20	18.70	19.70	19.21	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

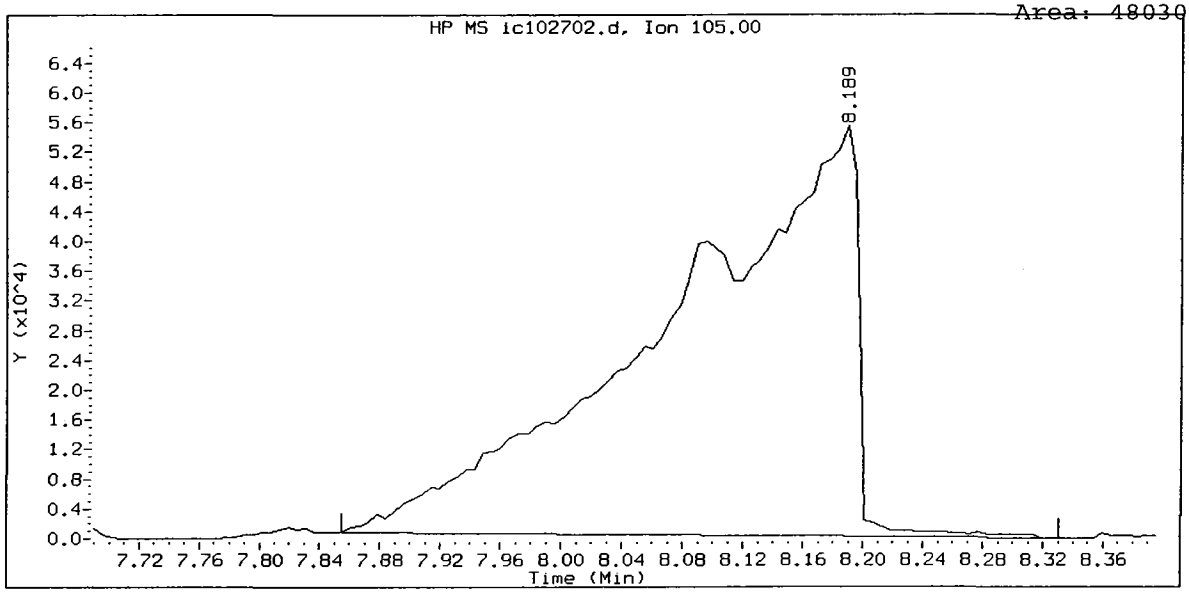
Data File: /chem3/nt4.i/20081027.b/ic102702.d
Date : 27-OCT-2008 12:17
Client ID:
Sample Info: ABN 80
Volume Injected (uL): 1.0
Column phase: ZB-5

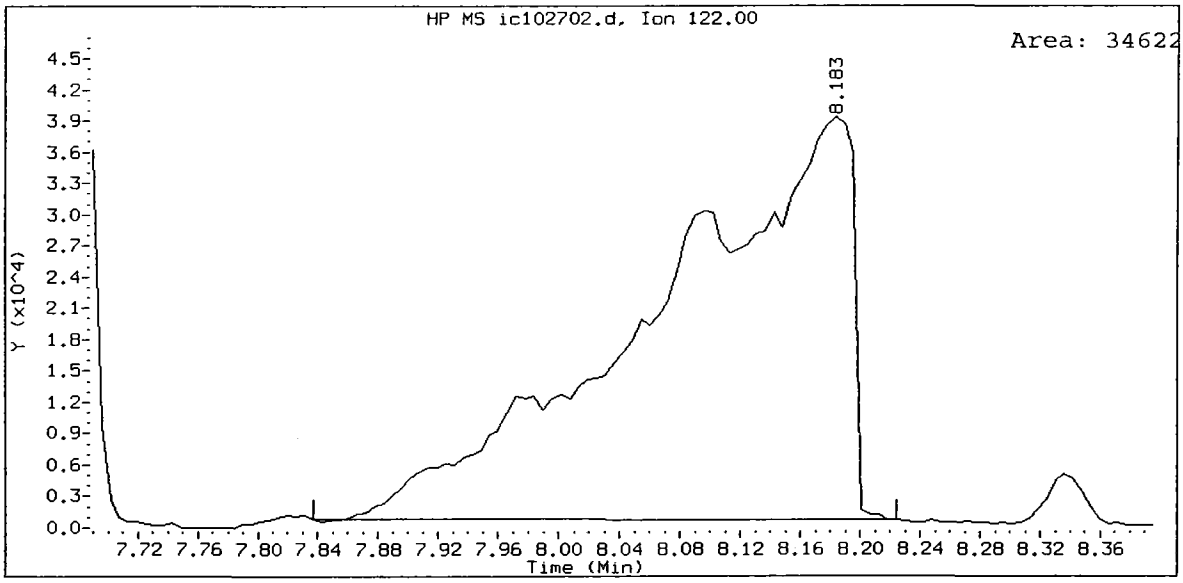
Instrument: nt4.i
Operator: LJR/VTS
Column diameter: 0.32

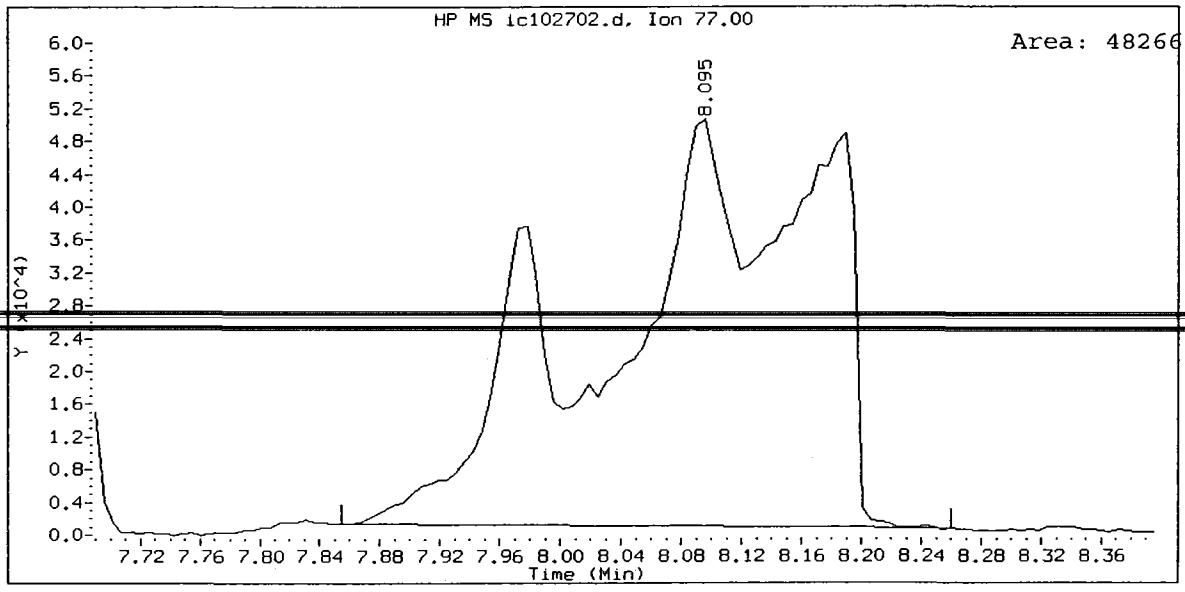
0087



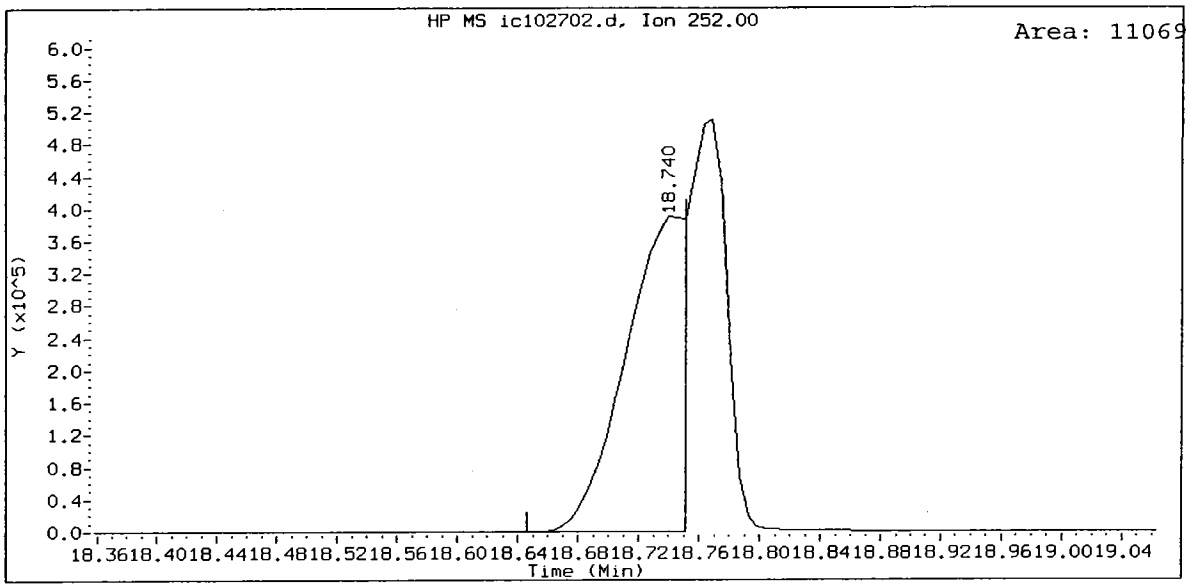
ABN 80, /chem3/nt4.i/20081027.b/ic102702.d
Benzoic acid Amount: 159.14

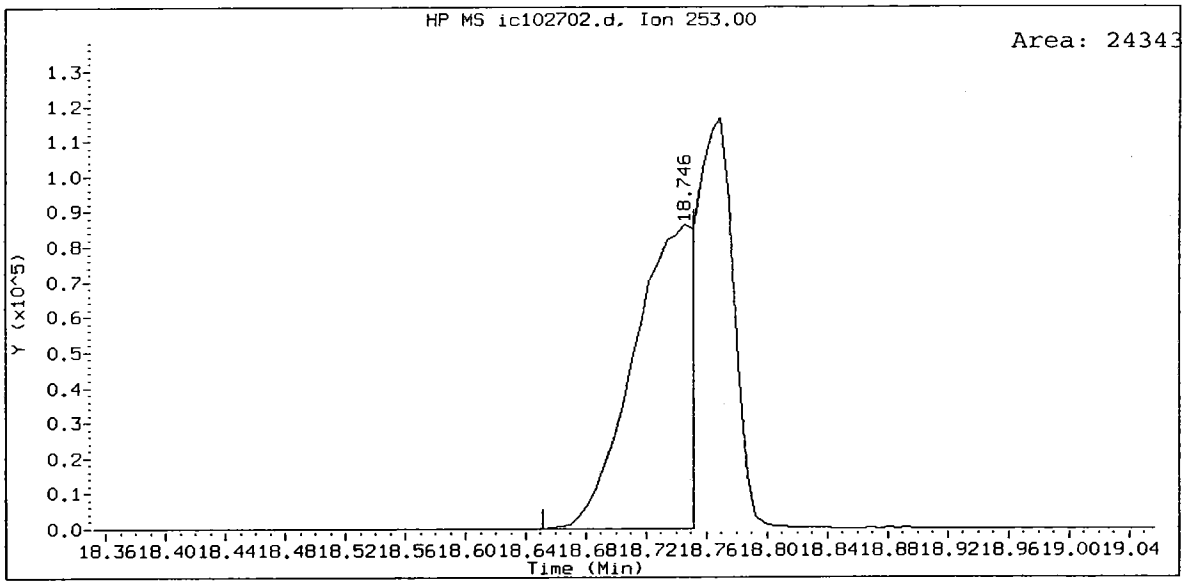


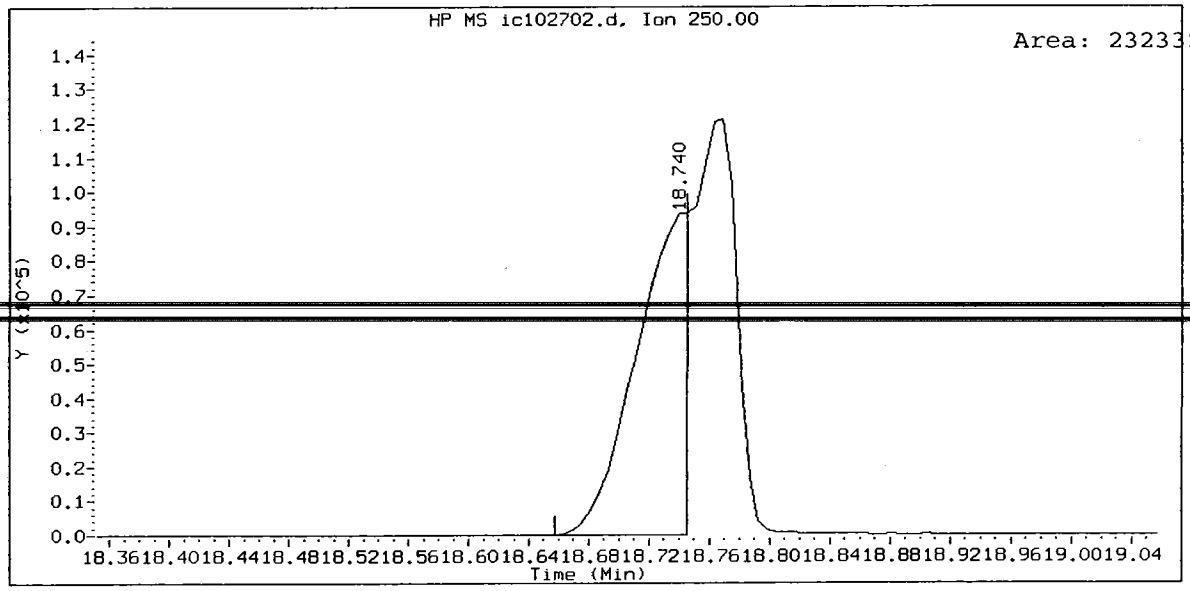




ABN 80, /chem3/nt4.i/20081027.b/ic102702.d
Benzo(b)fluoranthene Amount: 96.99







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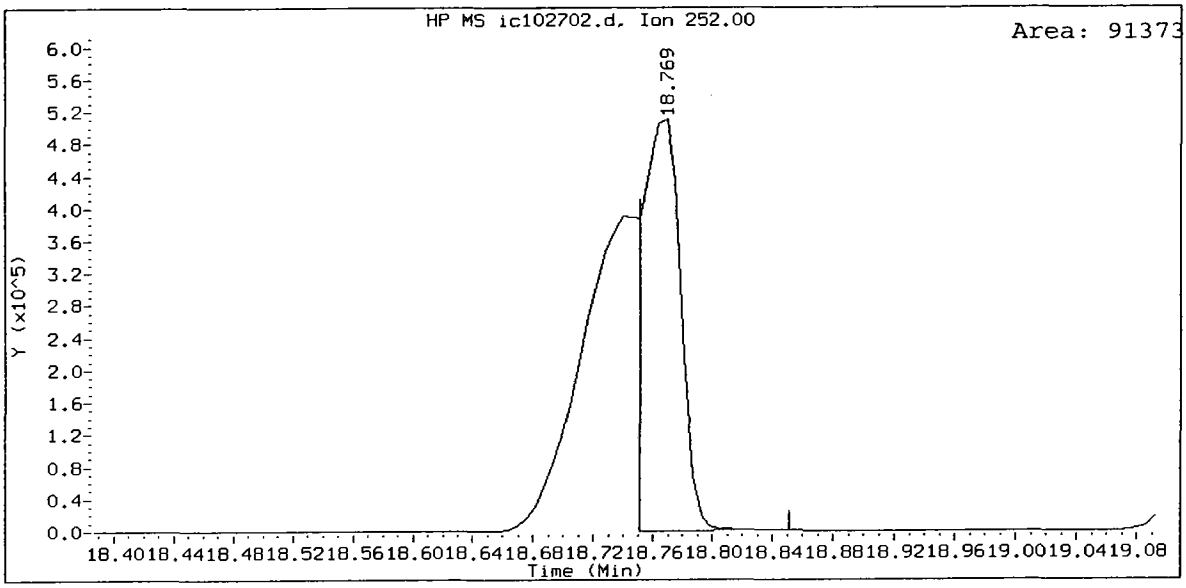
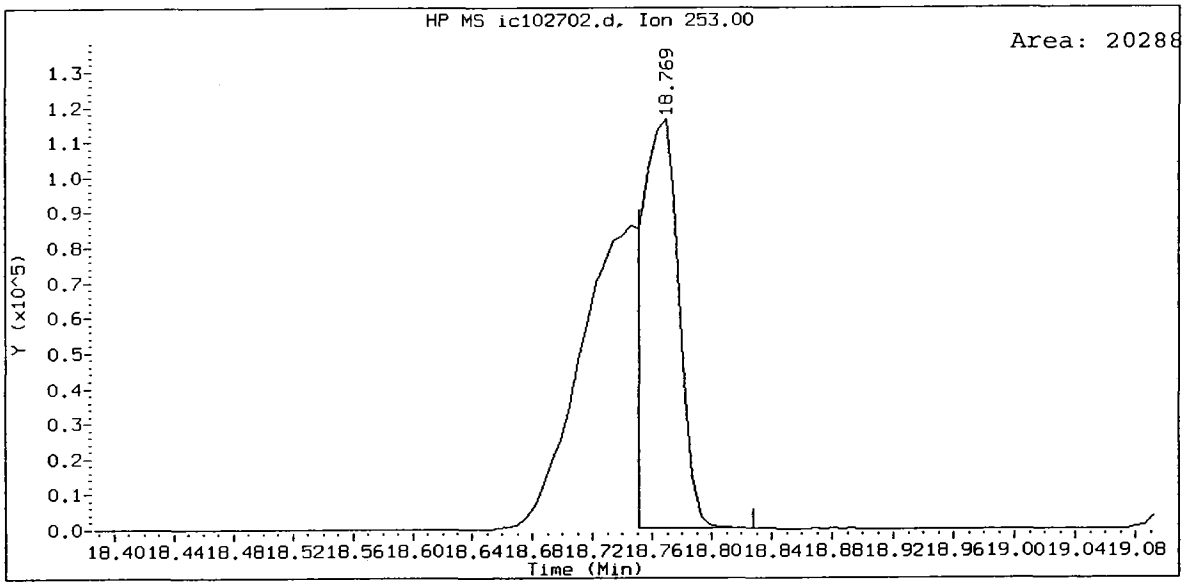
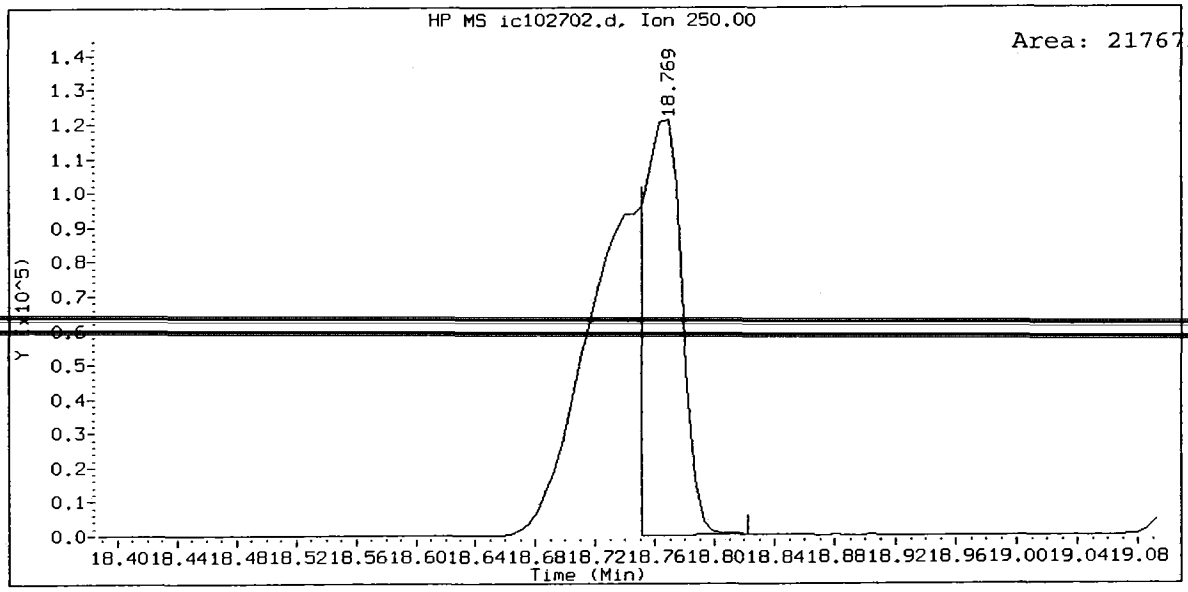
Benzo(k)fluoranthene Amount: 82.65







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20081027.b/ic102703.d
Lab Smp Id: ABN 1
Inj Date : 27-OCT-2008 12:51
Operator : LJR/VTS Inst ID: nt4.i
Smp Info : ABN 1
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt4.i/20081027.b/SW846.m
Meth Date : 27-Oct-2008 16:10 peter Quant Type: ISTD
Cal Date : 27-OCT-2008 14:33 Cal File: ic102706.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	7.50000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	3.352	3.354	(0.576)	3319	1.00000	0.9742(M)
$	2 Phenol-d5	99	5.584	5.587	(0.960)	4296	1.00000	0.9046
	3 Phenol	94	5.602	5.604	(0.963)	4066	1.00000	0.8822
$	5 2-Chlorophenol-d4	132	5.520	5.522	(0.948)	2867	1.00000	0.9810
	4 Bis(2-Chloroethyl)ether	93	5.543	5.557	(0.953)	3183	1.00000	0.9196
	6 2-Chlorophenol	128	5.543	5.546	(0.953)	3028	1.00000	0.9133
	7 1,3-Dichlorobenzene	146	5.731	5.739	(0.985)	3426	1.00000	0.9676
*	8 1,4-Dichlorobenzene-d4	152	5.819	5.822	(1.000)	47714	20.0000	
	9 1,4-Dichlorobenzene	146	5.837	5.845	(1.003)	3381	1.00000	0.9420
$	10 1,2-Dichlorobenzene-d4	152	6.136	6.133	(1.054)	1994	1.00000	0.9378(M)
	12 1,2-Dichlorobenzene	146	6.154	6.157	(1.058)	3102	1.00000	0.9242
	11 Benzyl alcohol	108	6.230	6.233	(1.071)	2350	1.00000	1.013(M)
	14 2,2'-oxybis(1-Chloropropane)	45	6.506	6.515	(1.118)	3921	1.00000	0.9808
	13 2-Methylphenol	108	6.577	6.579	(1.130)	3096	1.00000	0.9404

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	17 Hexachloroethane	117	6.659	6.662	(1.144)	1319	1.00000	0.8473
	16 N-Nitroso-di-n-propylamine	70	6.724	6.738	(1.155)	2710	1.00000	0.9673
	15 4-Methylphenol	108	6.835	6.838	(1.175)	3044	1.00000	0.8818
$	18 Nitrobenzene-d5	82	6.830	6.838	(0.861)	4297	1.00000	1.031
	19 Nitrobenzene	77	6.859	6.861	(0.864)	5498	1.00000	0.9512
	20 Isophorone	82	7.276	7.284	(0.917)	6544	1.00000	0.9632
	21 2-Nitrophenol	139	7.399	7.396	(0.933)	1456	1.00000	0.8634
	22 2,4-Dimethylphenol	107	7.652	7.660	(0.964)	3198	1.00000	0.9147
	23 Bis(2-Chloroethoxy)methane	93	7.758	7.766	(0.978)	3795	1.00000	0.9780
	24 Benzoic acid	105	7.863	8.042	(0.991)	2422	5.00000	1.069(M)
	25 2,4-Dichlorophenol	162	7.834	7.831	(0.987)	1906	1.00000	0.7892
	26 1,2,4-Trichlorobenzene	180	7.899	7.901	(0.996)	2193	1.00000	0.8029
*	27 Naphthalene-d8	136	7.934	7.936	(1.000)	170030	20.0000	
	28 Naphthalene	128	7.957	7.966	(1.003)	8612	1.00000	0.9756
	29 4-Chloroaniline	127	8.181	8.189	(1.031)	4126	1.00000	1.125
	30 Hexachlorobutadiene	225	8.333	8.336	(1.050)	1387	1.00000	0.8822
	31 4-Chloro-3-methylphenol	107	9.097	9.100	(1.147)	2529	1.00000	0.8765
	32 2-Methylnaphthalene	141	9.085	9.088	(1.145)	5276	1.00000	1.019
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	9.643	9.646	(0.899)	1447	1.00000	0.8451
	35 2,4,5-Trichlorophenol	196	9.714	9.711	(0.906)	1556	1.00000	0.8592
$	36 2-Fluorobiphenyl	172	9.755	9.763	(0.910)	5792	1.00000	0.9948
	37 2-Chloronaphthalene	162	9.826	9.828	(0.916)	4642	1.00000	0.9187
	38 2-Nitroaniline	65	10.113	10.122	(0.943)	2336	1.00000	1.045
	39 Dimethylphthalate	163	10.530	10.539	(0.982)	5119	1.00000	0.9452
	40 Acenaphthylene	152	10.466	10.474	(0.976)	7633	1.00000	0.9325
	41 2,6-Dinitrotoluene	165	10.595	10.603	(0.988)	1012	1.00000	0.8026
*	42 Acenaphthene-d10	164	10.724	10.727	(1.000)	85306	20.0000	
	43 3-Nitroaniline	138	10.777	10.786	(1.005)	1559	1.00000	1.069(M)
	44 Acenaphthene	153	10.771	10.774	(1.004)	4991	1.00000	0.9231
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	11.030	11.032	(1.028)	7948	1.00000	1.063
	47 4-Nitrophenol	109	11.241	11.238	(1.048)	537	1.00000	0.5371
	48 2,4-Dinitrotoluene	165	11.188	11.197	(1.043)	1108	1.00000	0.6979
	50 Diethylphthalate	149	11.658	11.678	(1.087)	12032	1.00000	2.084
	49 Fluorene	166	11.558	11.567	(1.078)	4882	1.00000	0.8850
	51 4-Chlorophenyl-phenylether	204	11.647	11.655	(1.086)	2477	1.00000	0.9158
	52 4-Nitroaniline	138	11.729	11.749	(1.094)	1249	1.00000	0.9098
	53 4,6-Dinitro-2-methylphenol	198	11.817	11.825	(0.910)	588	5.00000	0.5411
	54 N-Nitrosodiphenylamine	169	11.864	11.872	(0.914)	3667	1.00000	3.525
$	55 2,4,6-Tribromophenol	330	11.987	11.984	(1.118)	642	1.00000	0.8162
	56 4-Bromophenyl-phenylether	248	12.387	12.395	(0.954)	1442	1.00000	0.9452
	57 Hexachlorobenzene	284	12.539	12.548	(0.966)	1730	1.00000	1.060
	58 Pentachlorophenol	266	12.874	12.883	(0.991)	230	1.00000	3.619
*	59 Phenanthrene-d10	188	12.986	12.994	(1.000)	125494	20.0000	
	60 Phenanthrene	178	13.015	13.024	(1.002)	7305	1.00000	0.9391
	61 Anthracene	178	13.092	13.094	(1.008)	7190	1.00000	0.9485

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
62	Carbazole	167	13.421	13.429	(1.033)	5969	1.00000	0.9391
63	Di-n-butylphthalate	149	14.249	14.257	(1.097)	7784	1.00000	0.9460
64	Fluoranthene	202	14.872	14.880	(1.145)	7455	1.00000	0.9714
65	Pyrene	202	15.195	15.203	(0.887)	7423	1.00000	0.9083
$ 66	Terphenyl-d14	244	15.612	15.620	(0.912)	5164	1.00000	0.9625
67	Butylbenzylphthalate	149	16.558	16.566	(0.967)	3282	1.00000	0.8646
68	Benzo(a)anthracene	228	17.110	17.118	(0.999)	8122	1.00000	0.9787
* 69	Chrysene-d12	240	17.127	17.136	(1.000)	125478	20.0000	
70	3,3'-Dichlorobenzidine	252	17.210	17.212	(1.005)	3599	1.00000	1.167
71	Chrysene	228	17.163	17.177	(1.002)	7767	1.00000	0.9611
72	bis(2-Ethylhexyl)phthalate	149	17.597	17.606	(0.950)	4672	1.00000	0.8935
* 134	Di-n-octylphthalate-d4	153	18.514	18.522	(1.000)	190040	20.0000	
73	Di-n-octylphthalate	149	18.526	18.528	(1.001)	10146	1.00000	1.003
74	Benzo(b)fluoranthene	252	18.696	18.710	(0.974)	9637	1.00000	0.9675(MH)
75	Benzo(k)fluoranthene	252	18.731	18.739	(0.976)	8092	1.00000	0.8387(M)
76	Benzo(a)pyrene	252	19.113	19.115	(0.996)	7380	1.00000	0.8622
* 77	Perylene-d12	264	19.195	19.204	(1.000)	158936	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	20.499	20.514	(1.068)	8564	1.00000	0.8887
79	Dibenzo(a,h)anthracene	278	20.540	20.561	(1.070)	7993	1.00000	0.8126
80	Benzo(g,h,i)perylene	276	20.770	20.784	(1.082)	9110	1.00000	0.8830
90	N-Nitrosodimethylamine	74	1.178	1.181	(0.202)	3287	1.00000	0.9908
91	Aniline	93	5.361	5.363	(0.921)	7243	1.00000	1.216
93	Benzidine	184	15.212	15.215	(0.888)	3846	1.00000	1.345
103	Pyridine	79	1.190	1.169	(0.205)	6099	1.00000	1.057
105	1-methylnaphthalene	141	9.244	9.241	(1.165)	4027	1.00000	0.9196
111	Azobenzene (1,2-DP-Hydrazine)	77	11.882	11.890	(1.108)	7542	1.00000	0.9108

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: ic102703.d
Lab Smp Id: ABN 1
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem3/nt4.i/20081027.b/SW846.m
Misc Info:

Calibration Date: 27-OCT-2008
Calibration Time: 11:43

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	59818	29909	119636	47714	-20.23
27 Naphthalene-d8	215926	107963	431852	170030	-21.26
42 Acenaphthene-d10	106515	53258	213030	85306	-19.91
59 Phenanthrene-d10	159025	79512	318050	125494	-21.09
69 Chrysene-d12	159466	79733	318932	125478	-21.31
134 Di-n-octylphthala	245174	122587	490348	190040	-22.49
77 Perylene-d12	201890	100945	403780	158936	-21.28

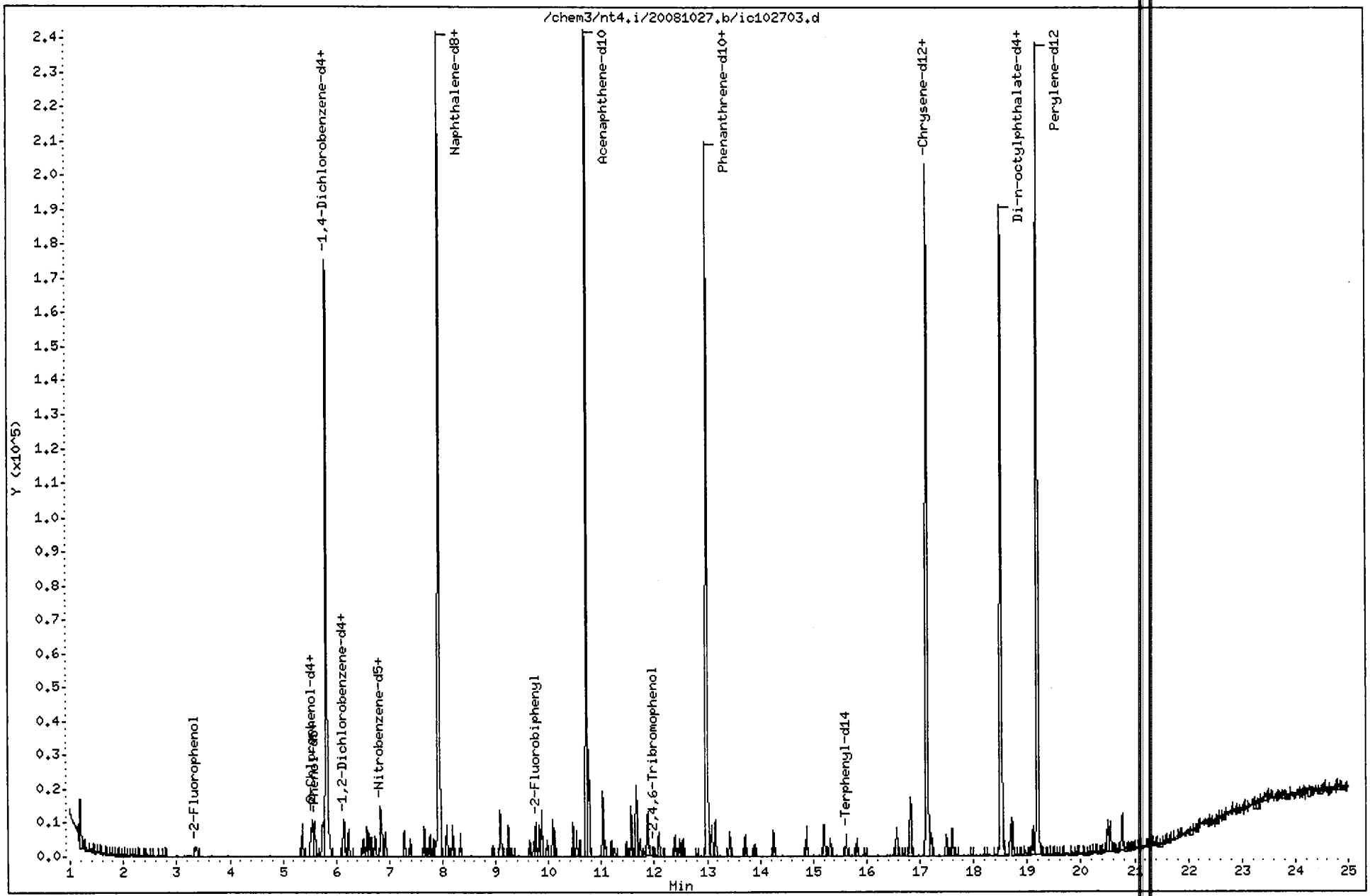
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	5.82	5.32	6.32	5.82	-0.04
27 Naphthalene-d8	7.94	7.44	8.44	7.93	-0.03
42 Acenaphthene-d10	10.73	10.23	11.23	10.72	-0.02
59 Phenanthrene-d10	12.99	12.49	13.49	12.99	-0.06
69 Chrysene-d12	17.14	16.64	17.64	17.13	-0.05
134 Di-n-octylphthala	18.52	18.02	19.02	18.51	-0.05
77 Perylene-d12	19.20	18.70	19.70	19.20	-0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

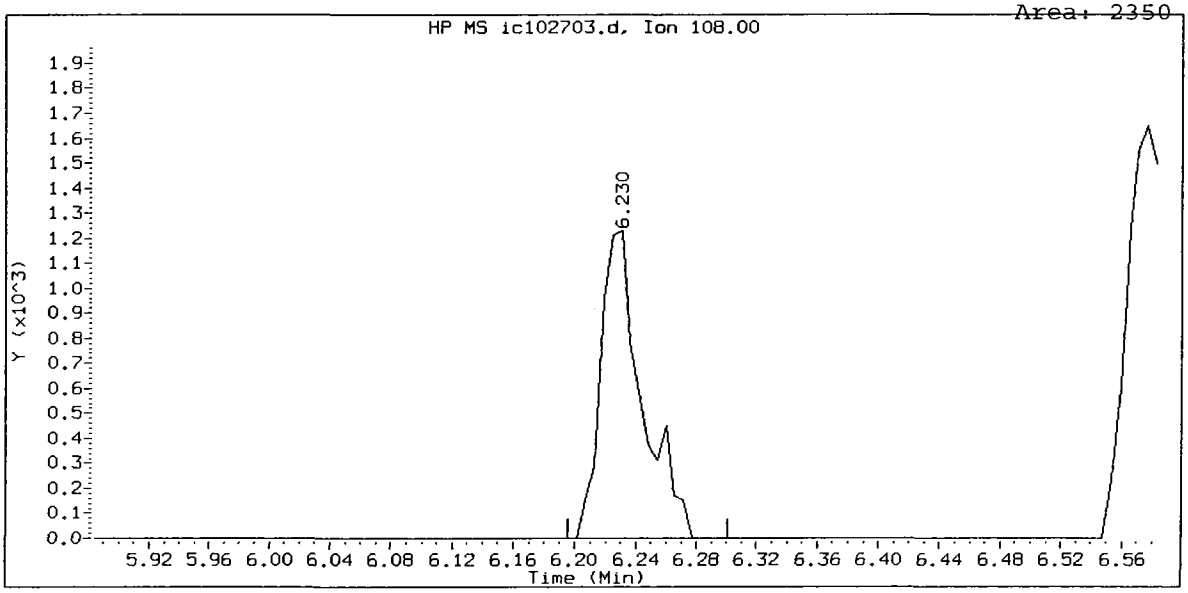
Data File: /chem3/nt4.i/20081027.b/ic102703.d
Date : 27-OCT-2008 12:51
Client ID:
Sample Info: ABN 1
Volume Injected (uL): 1.0
Column phase: ZB-5

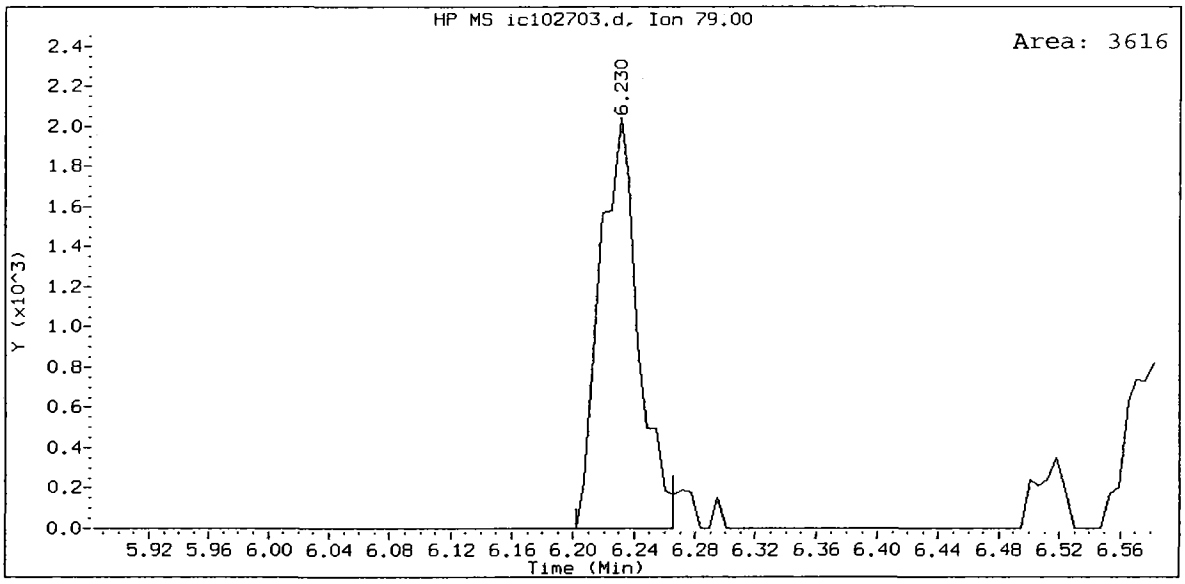
Instrument: nt4.i
Operator: LJR/VTS
Column diameter: 0.32

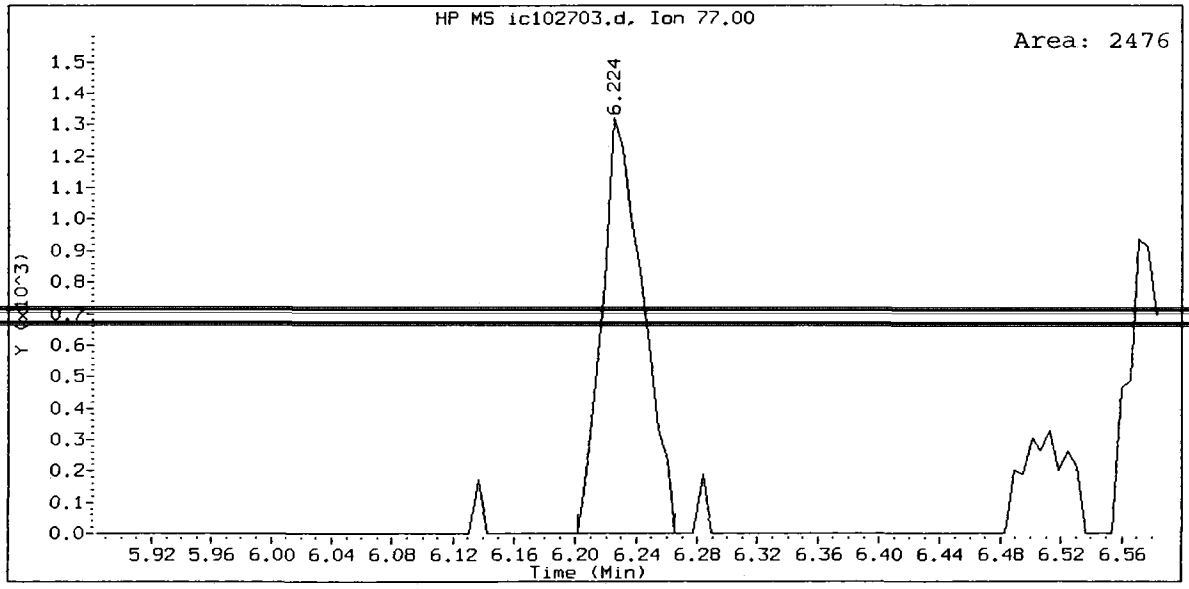
0095



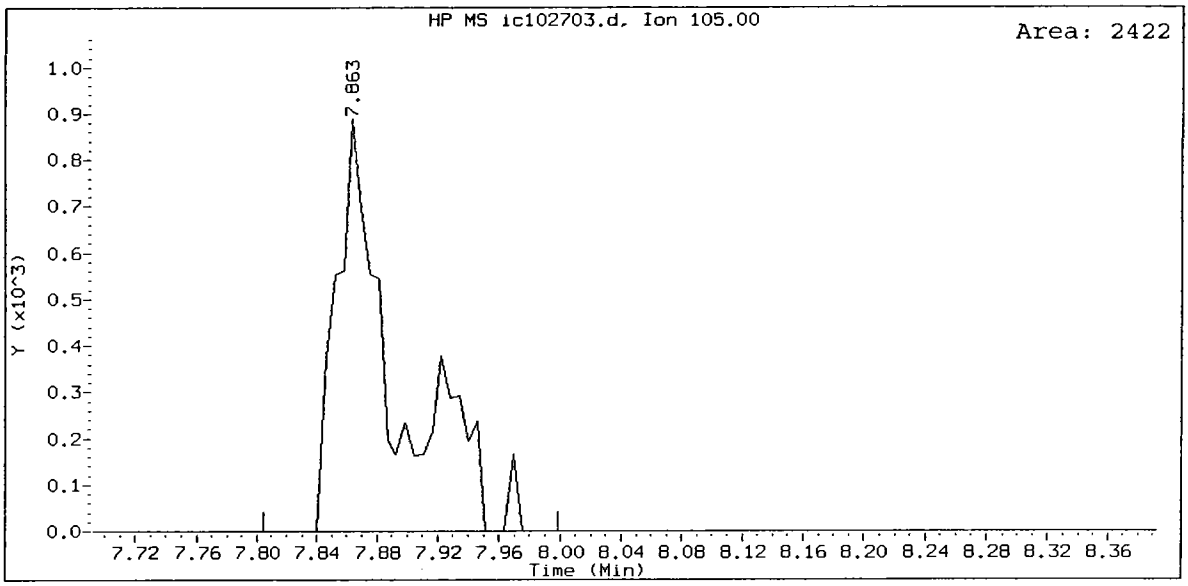
ABN 1, /chem3/nt4.i/20081027.b/ic102703.d
Benzyl alcohol Amount: 1.01

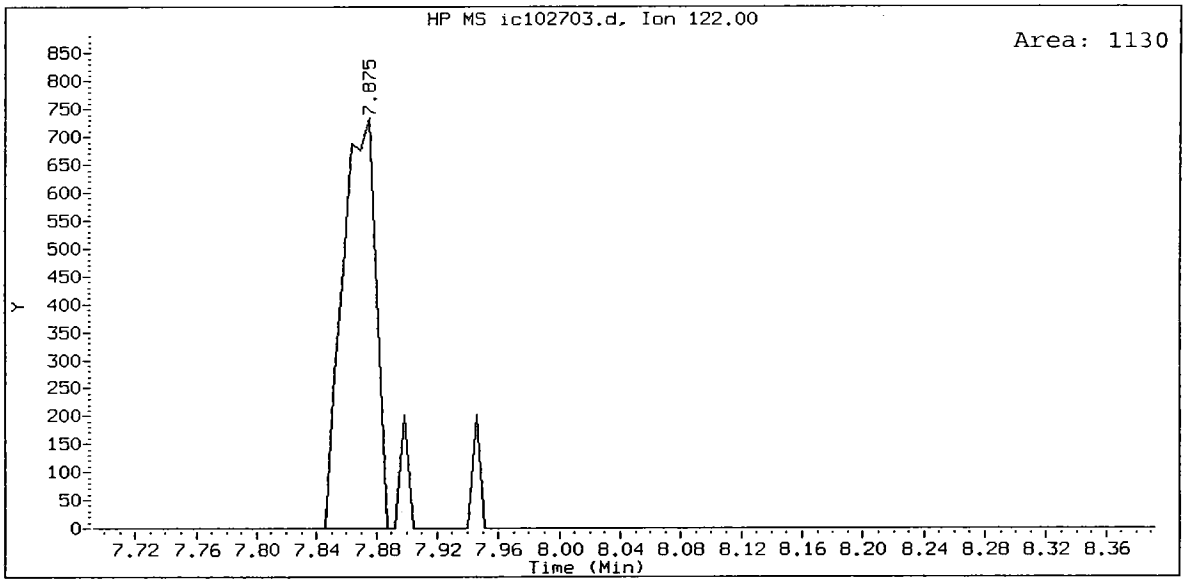


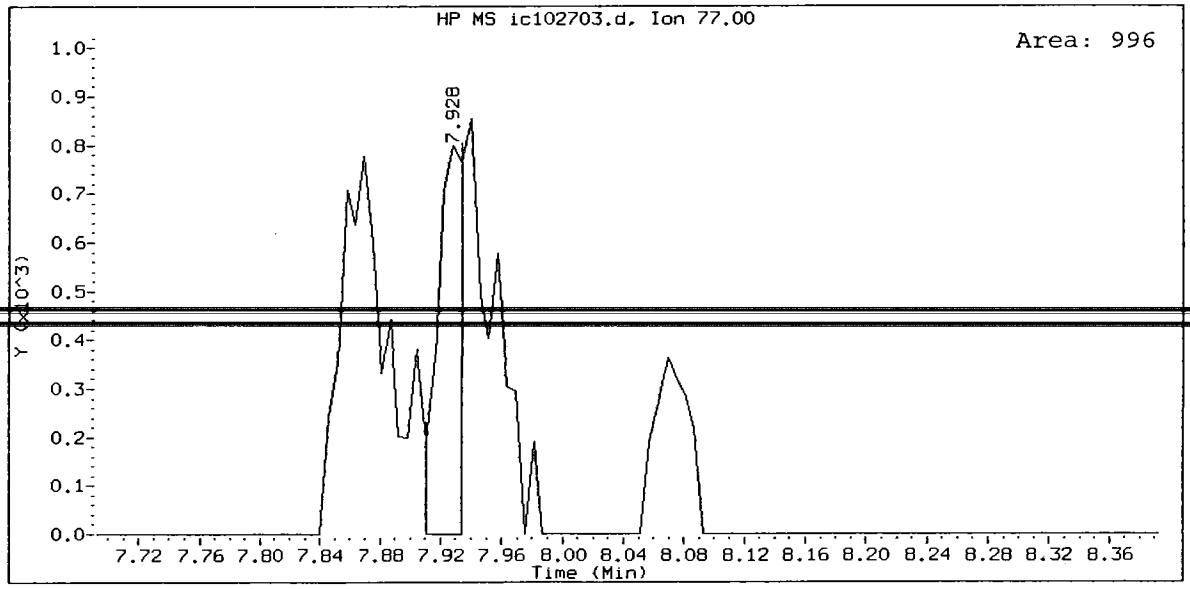




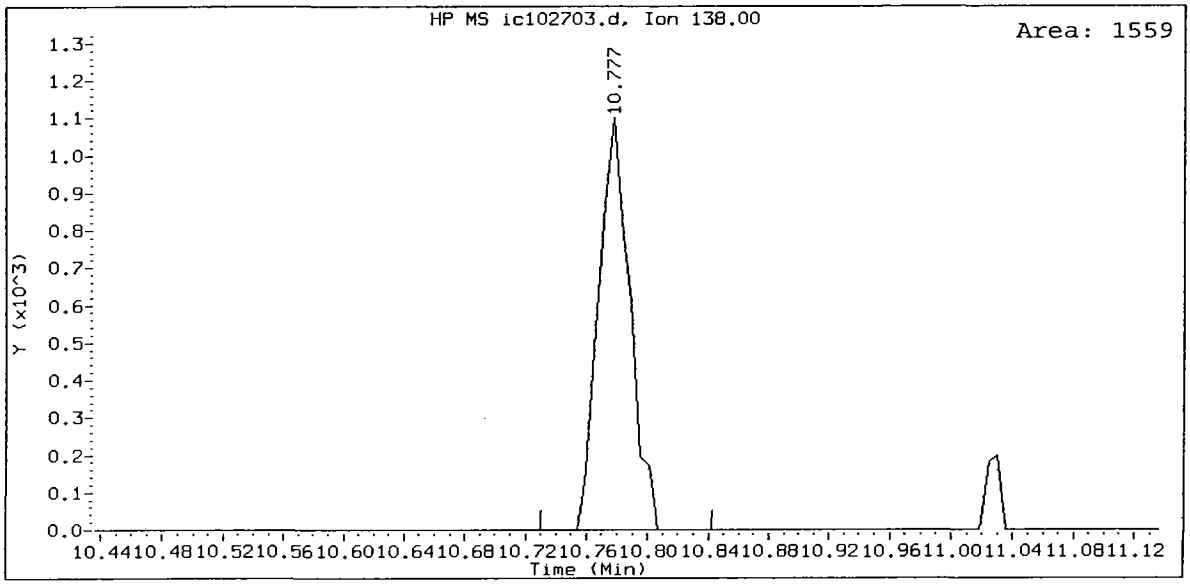
ABN 1, /chem3/nt4.i/20081027.b/ic102703.d
Benzoic acid Amount: 1.07

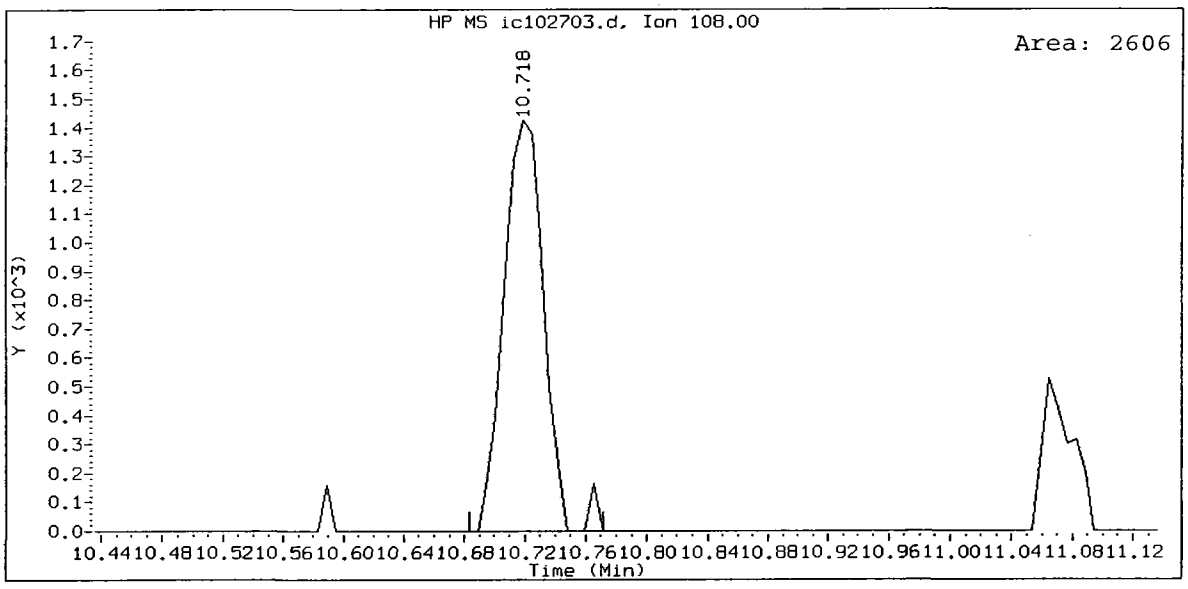


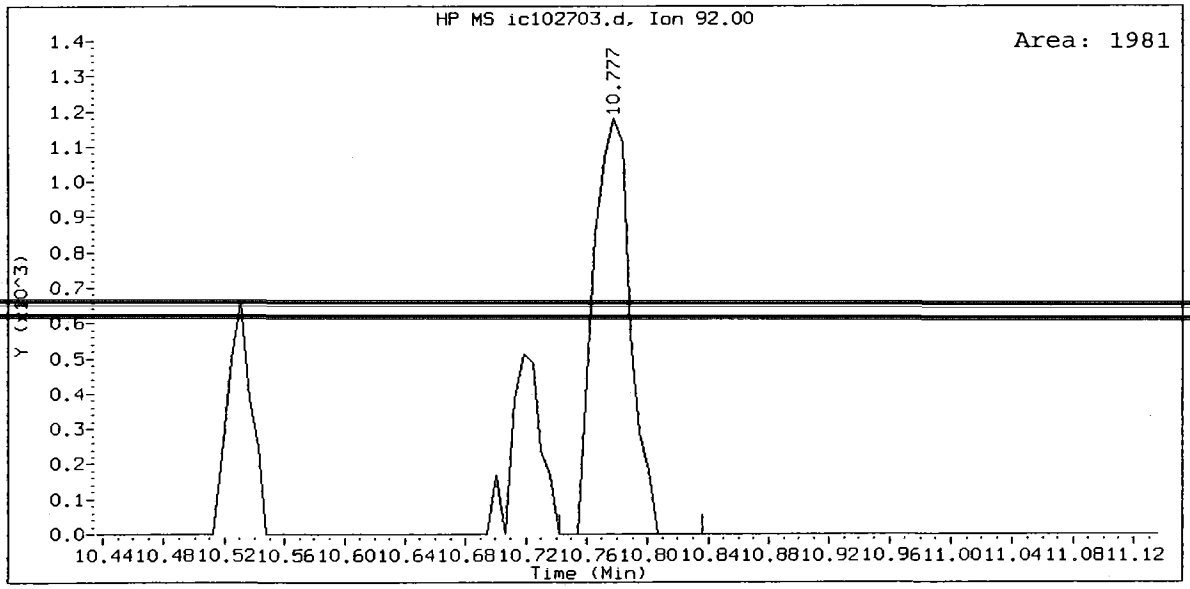




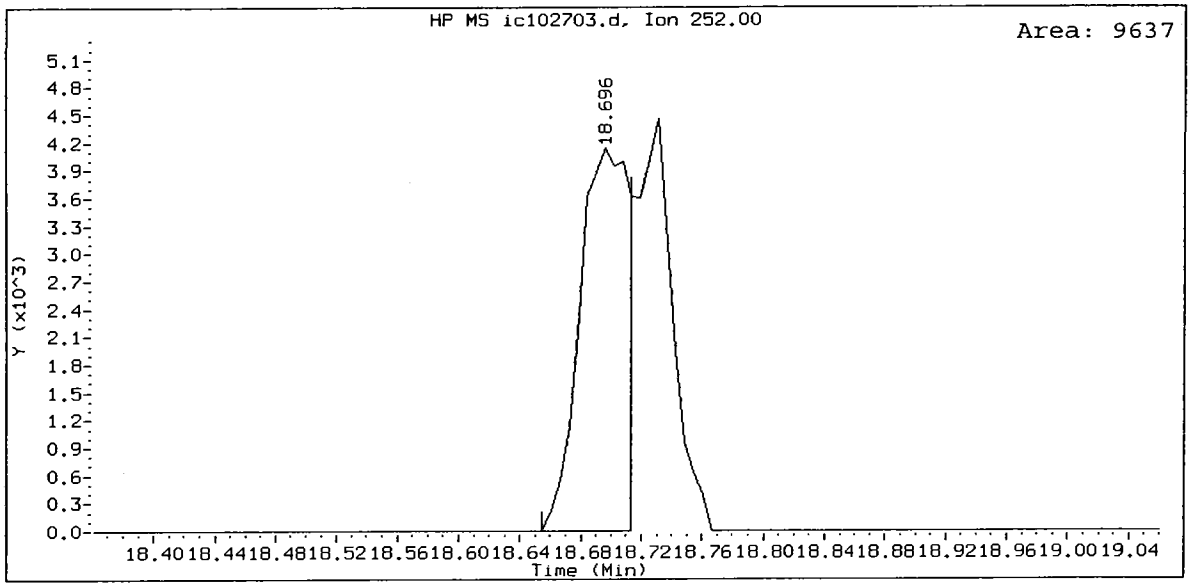
ABN 1, /chem3/nt4.i/20081027.b/ic102703.d
3-Nitroaniline Amount: 1.07

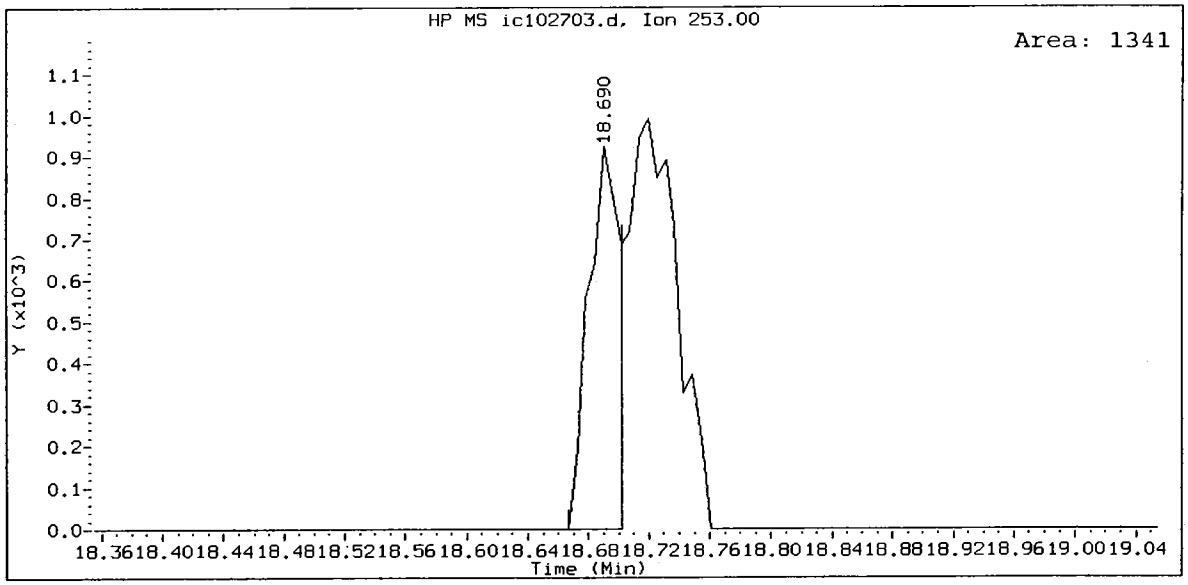


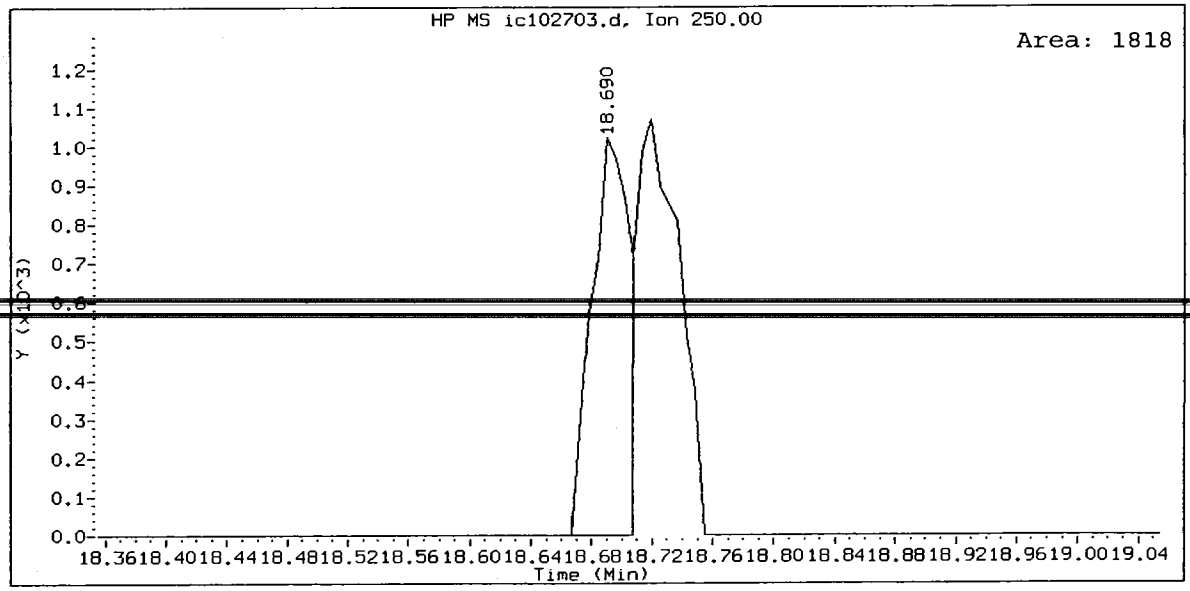




ABN 1, /chem3/nt4.i/20081027.b/ic102703.d
Benzo(b)fluoranthene Amount: 0.97







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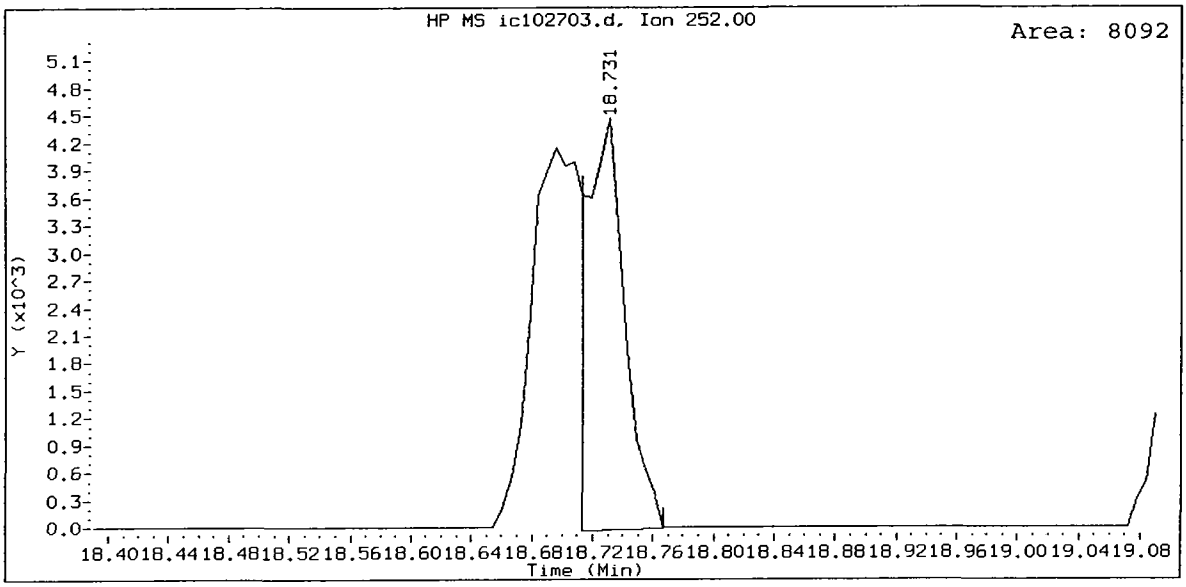
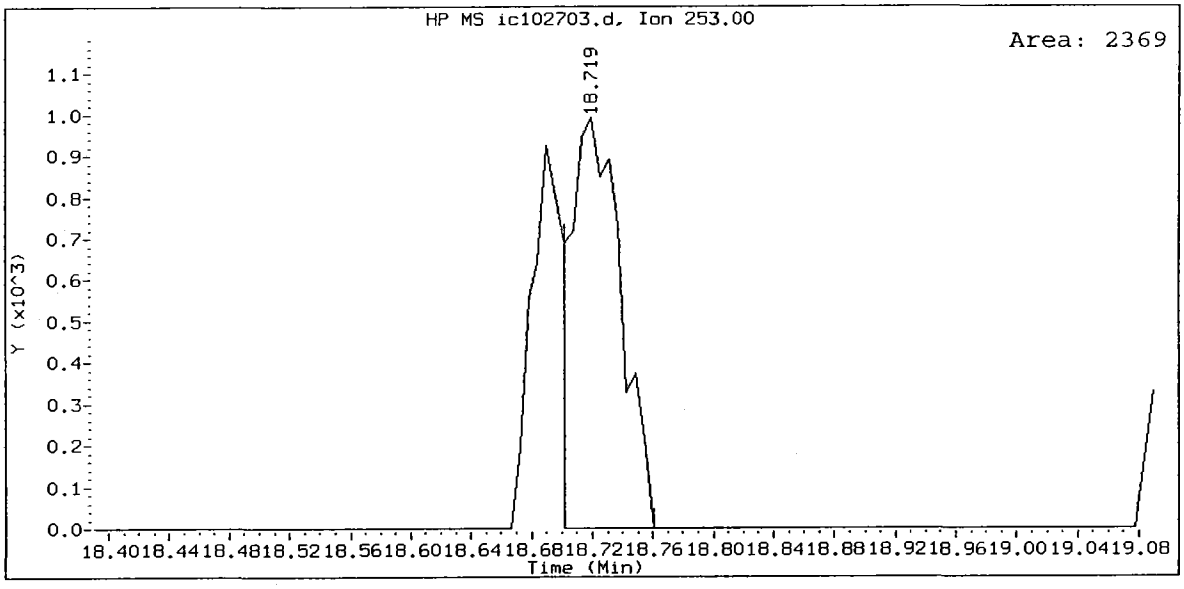
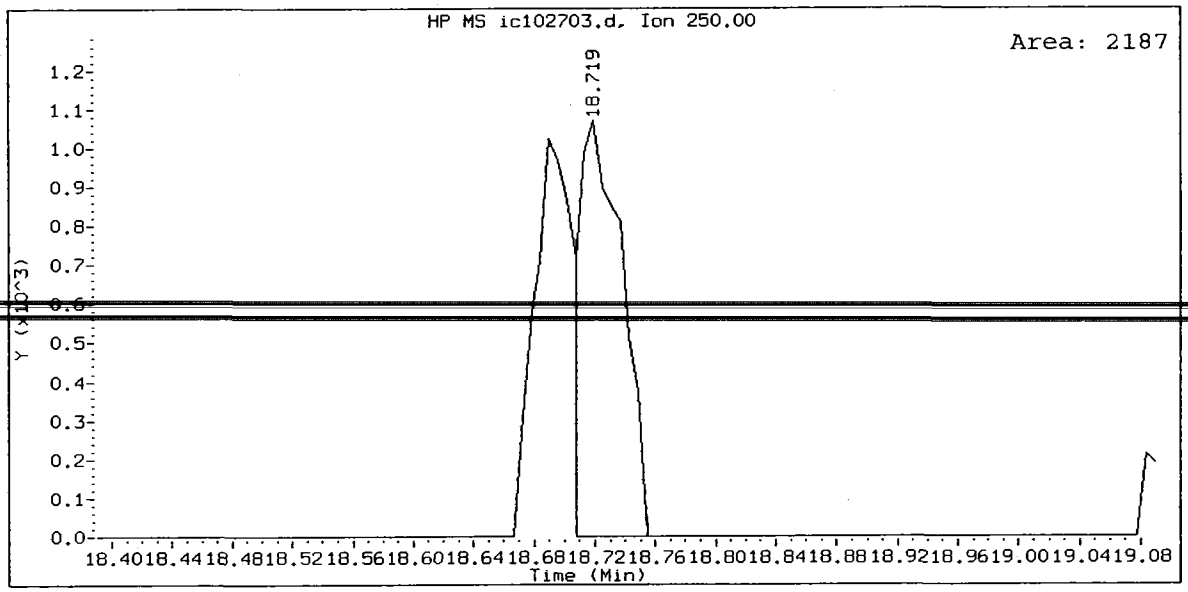
Benzo(k)fluoranthene Amount: 0.84







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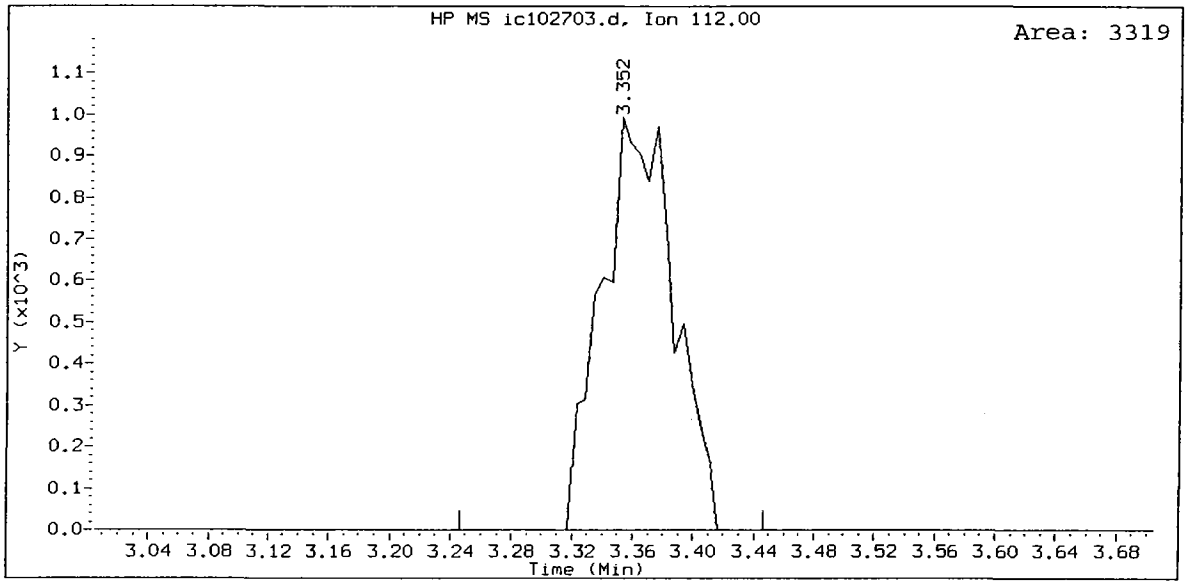
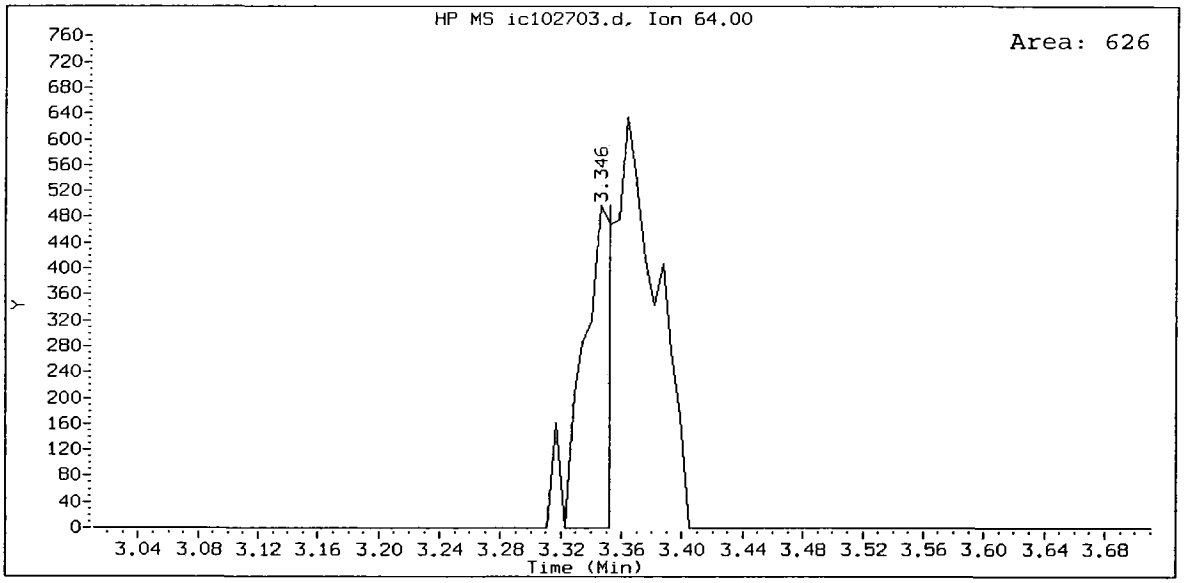
2-Fluorophenol Amount: 0.97





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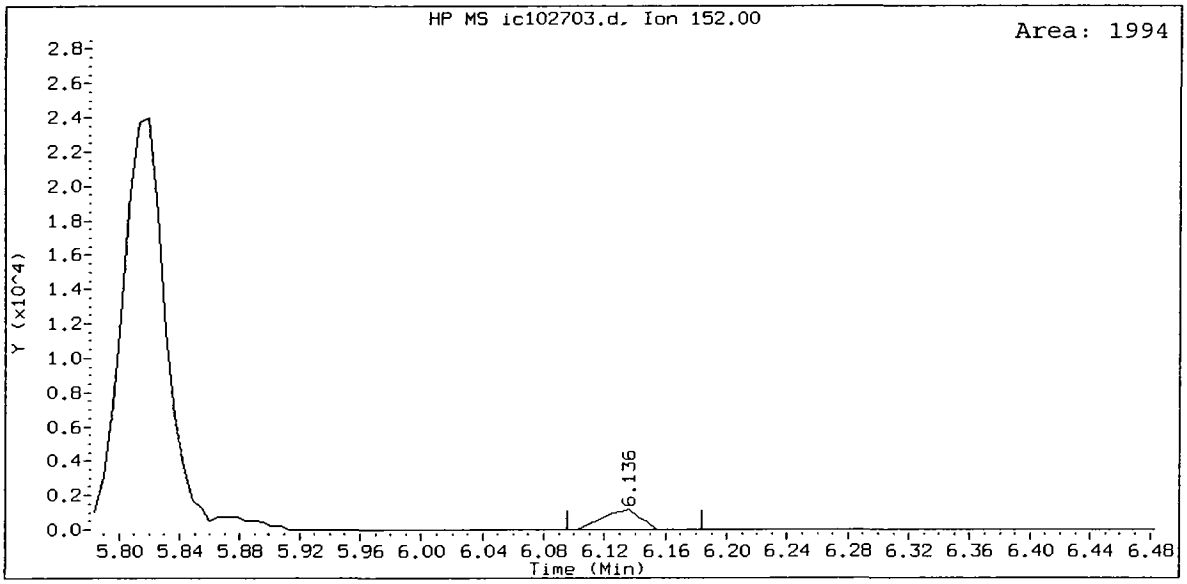
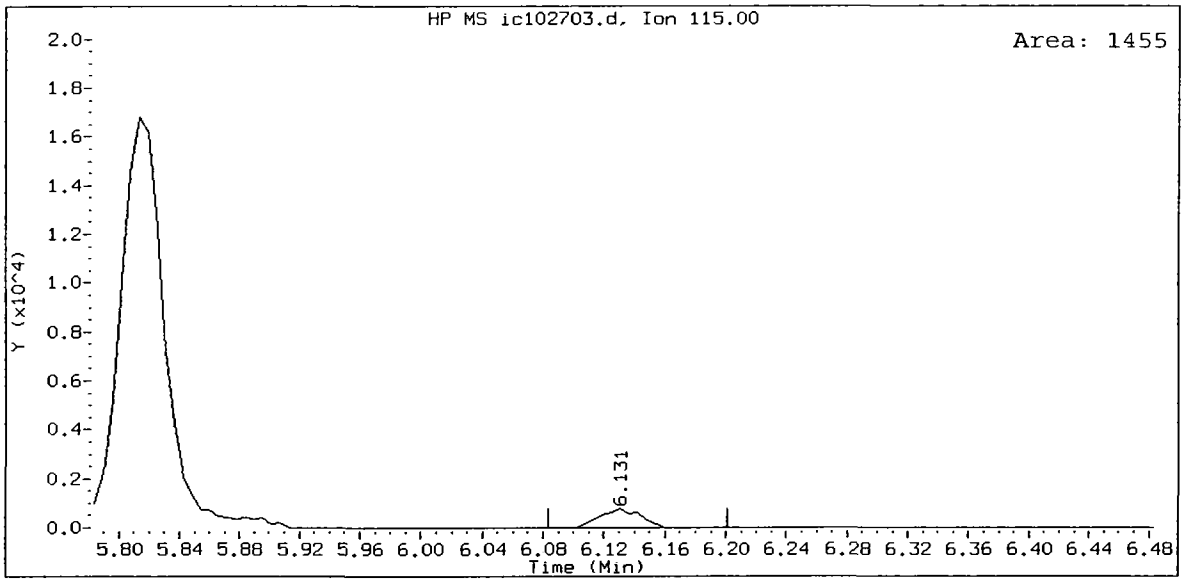
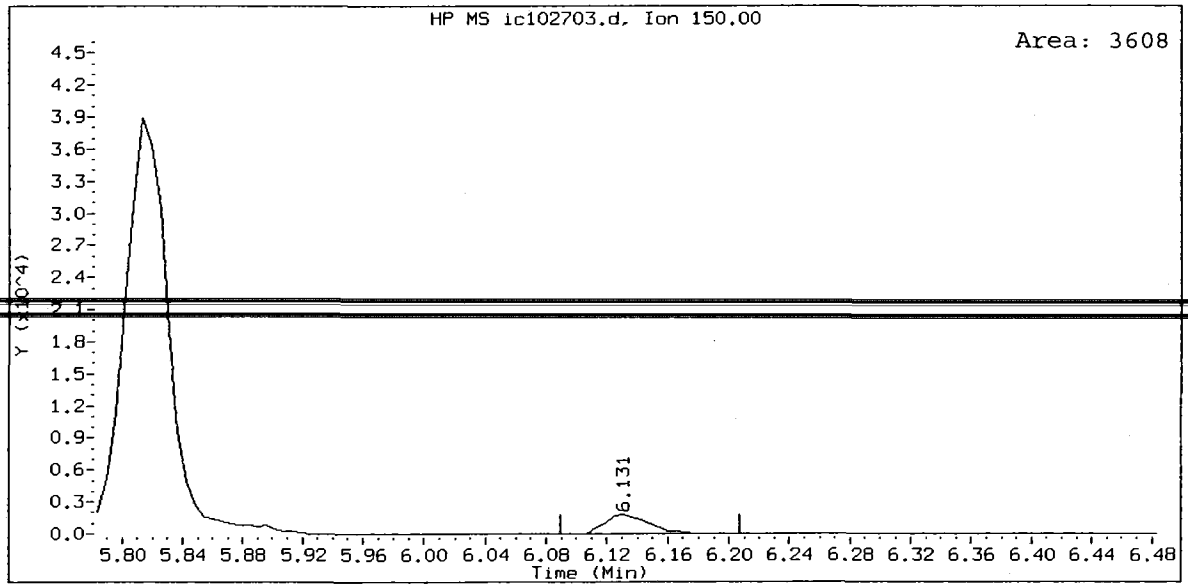
1,2-Dichlorobenzene-d4 Amount: 0.94







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20081027.b/ic102704.d
Lab Smp Id: ABN 40
Inj Date : 27-OCT-2008 13:25
Operator : LJR/VTS Inst ID: nt4.i
Smp Info : ABN 40
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt4.i/20081027.b/SW846.m
Meth Date : 27-Oct-2008 16:10 peter Quant Type: ISTD
Cal Date : 27-OCT-2008 14:33 Cal File: ic102706.d
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	7.50000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	3.361	3.354	(0.577)	148925	40.0000	41.07
$ 2	Phenol-d5	99	5.594	5.587	(0.961)	209286	40.0000	41.40
3	Phenol	94	5.611	5.604	(0.964)	218048	40.0000	44.45
$ 5	2-Chlorophenol-d4	132	5.523	5.522	(0.949)	125842	40.0000	40.45
4	Bis(2-Chloroethyl)ether	93	5.558	5.557	(0.955)	157621	40.0000	42.78
6	2-Chlorophenol	128	5.547	5.546	(0.953)	155446	40.0000	44.05
7	1,3-Dichlorobenzene	146	5.740	5.739	(0.986)	158887	40.0000	42.16
* 8	1,4-Dichlorobenzene-d4	152	5.823	5.822	(1.000)	50787	20.0000	
9	1,4-Dichlorobenzene	146	5.846	5.845	(1.004)	164927	40.0000	43.17
$ 10	1,2-Dichlorobenzene-d4	152	6.134	6.133	(1.053)	93351	40.0000	41.25(M)
12	1,2-Dichlorobenzene	146	6.157	6.157	(1.058)	150819	40.0000	42.21
11	Benzyl alcohol	108	6.240	6.233	(1.072)	101745	40.0000	41.20
14	2,2'-oxybis(1-Chloropropane)	45	6.510	6.515	(1.118)	177466	40.0000	41.71
13	2-Methylphenol	108	6.586	6.579	(1.131)	151995	40.0000	43.38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	17 Hexachloroethane	117	6.663	6.662	(1.144)	72601	40.0000	43.81
	16 N-Nitroso-di-n-propylamine	70	6.751	6.738	(1.159)	126504	40.0000	42.42
	15 4-Methylphenol	108	6.845	6.838	(1.176)	163842	40.0000	44.59
$	18 Nitrobenzene-d5	82	6.839	6.838	(0.862)	184308	40.0000	41.01
	19 Nitrobenzene	77	6.868	6.861	(0.865)	263744	40.0000	42.31
	20 Isophorone	82	7.291	7.284	(0.919)	311203	40.0000	42.47
	21 2-Nitrophenol	139	7.397	7.396	(0.932)	77611	40.0000	42.68
	22 2,4-Dimethylphenol	107	7.661	7.660	(0.965)	162295	40.0000	43.04
	23 Bis(2-Chloroethoxy)methane	93	7.767	7.766	(0.979)	177906	40.0000	42.52
	24 Benzoic acid	105	8.084	8.042	(1.018)	222951	80.0000	85.01
	25 2,4-Dichlorophenol	162	7.832	7.831	(0.987)	110924	40.0000	42.59
	26 1,2,4-Trichlorobenzene	180	7.902	7.901	(0.996)	126206	40.0000	42.85
*	27 Naphthalene-d8	136	7.937	7.936	(1.000)	183360	20.0000	
	28 Naphthalene	128	7.967	7.966	(1.004)	400747	40.0000	42.10
	29 4-Chloroaniline	127	8.190	8.189	(1.032)	157416	40.0000	39.81
	30 Hexachlorobutadiene	225	8.337	8.336	(1.050)	71271	40.0000	42.04
	31 4-Chloro-3-methylphenol	107	9.101	9.100	(1.147)	137459	40.0000	44.18
	32 2-Methylnaphthalene	141	9.089	9.088	(1.145)	231056	40.0000	41.40
	33 Hexachlorocyclopentadiene	237	9.477	9.481	(0.884)	63216	40.0000	46.23
	34 2,4,6-Trichlorophenol	196	9.647	9.646	(0.900)	79562	40.0000	42.67
	35 2,4,5-Trichlorophenol	196	9.706	9.711	(0.905)	85045	40.0000	43.12
$	36 2-Fluorobiphenyl	172	9.764	9.763	(0.911)	259485	40.0000	40.92
	37 2-Chloronaphthalene	162	9.835	9.828	(0.917)	231151	40.0000	42.01
	38 2-Nitroaniline	65	10.123	10.122	(0.944)	100826	40.0000	41.40
	39 Dimethylphthalate	163	10.546	10.539	(0.984)	250412	40.0000	42.45
	40 Acenaphthylene	152	10.475	10.474	(0.977)	383878	40.0000	43.06
	41 2,6-Dinitrotoluene	165	10.604	10.603	(0.989)	56580	40.0000	41.21
*	42 Acenaphthene-d10	164	10.722	10.727	(1.000)	92903	20.0000	
	43 3-Nitroaniline	138	10.798	10.786	(1.007)	64667	40.0000	40.70
	44 Acenaphthene	153	10.775	10.774	(1.005)	258485	40.0000	43.90
	45 2,4-Dinitrophenol	184	10.957	10.956	(1.022)	56775	80.0000	74.63
	46 Dibenzofuran	168	11.039	11.032	(1.030)	328554	40.0000	40.35
	47 4-Nitrophenol	109	11.233	11.238	(1.048)	48582	40.0000	44.62
	48 2,4-Dinitrotoluene	165	11.204	11.197	(1.045)	72958	40.0000	42.20
	50 Diethylphthalate	149	11.685	11.678	(1.090)	261537	40.0000	40.80
	49 Fluorene	166	11.568	11.567	(1.079)	257694	40.0000	42.89
	51 4-Chlorophenyl-phenylether	204	11.656	11.655	(1.087)	126294	40.0000	42.87
	52 4-Nitroaniline	138	11.762	11.749	(1.097)	60656	40.0000	40.57
	53 4,6-Dinitro-2-methylphenol	198	11.832	11.825	(0.910)	95803	80.0000	76.79
	54 N-Nitrosodiphenylamine	169	11.879	11.872	(0.914)	181954	40.0000	40.68
$	55 2,4,6-Tribromophenol	330	11.991	11.984	(1.118)	36191	40.0000	42.25
	56 4-Bromophenyl-phenylether	248	12.396	12.395	(0.954)	73858	40.0000	42.16
	57 Hexachlorobenzene	284	12.549	12.548	(0.966)	76447	40.0000	40.78
	58 Pentachlorophenol	266	12.884	12.883	(0.991)	44972	40.0000	39.91
*	59 Phenanthrene-d10	188	12.995	12.994	(1.000)	144088	20.0000	
	60 Phenanthrene	178	13.031	13.024	(1.003)	385026	40.0000	43.11
	61 Anthracene	178	13.101	13.094	(1.008)	363125	40.0000	41.72

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	62 Carbazole	167	13.436	13.429	(1.034)	307774	40.0000	42.17
	63 Di-n-butylphthalate	149	14.258	14.257	(1.097)	400233	40.0000	42.36
	64 Fluoranthene	202	14.881	14.880	(1.145)	373384	40.0000	42.37
	65 Pyrene	202	15.204	15.203	(0.887)	386504	40.0000	43.12
$	66 Terphenyl-d14	244	15.621	15.620	(0.911)	247281	40.0000	42.02
	67 Butylbenzylphthalate	149	16.567	16.566	(0.966)	185430	40.0000	44.53
	68 Benzo(a)anthracene	228	17.125	17.118	(0.999)	377883	40.0000	41.51
*	69 Chrysene-d12	240	17.143	17.136	(1.000)	137636	20.0000	
	70 3,3'-Dichlorobenzidine	252	17.213	17.212	(1.004)	130640	40.0000	38.62
	71 Chrysene	228	17.178	17.177	(1.002)	379032	40.0000	42.76
	72 bis(2-Ethylhexyl)phthalate	149	17.607	17.606	(0.951)	251507	40.0000	43.68
*	134 Di-n-octylphthalate-d4	153	18.523	18.522	(1.000)	209256	20.0000	
	73 Di-n-octylphthalate	149	18.529	18.528	(1.000)	458354	40.0000	41.15
	74 Benzo(b)fluoranthene	252	18.717	18.710	(0.975)	425770	40.0000	42.50(H)
	75 Benzo(k)fluoranthene	252	18.746	18.739	(0.976)	442056	40.0000	45.55
	76 Benzo(a)pyrene	252	19.122	19.115	(0.996)	378918	40.0000	44.02
*	77 Perylene-d12	264	19.199	19.204	(1.000)	159857	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	20.515	20.514	(1.069)	423843	40.0000	43.73
	79 Dibenzo(a,h)anthracene	278	20.567	20.561	(1.071)	443170	40.0000	44.80
	80 Benzo(g,h,i)perylene	276	20.796	20.784	(1.083)	457940	40.0000	44.13
	90 N-Nitrosodimethylamine	74	1.188	1.181	(0.204)	147926	40.0000	41.89
	91 Aniline	93	5.364	5.363	(0.921)	254070	40.0000	40.06
	93 Benzidine	184	15.216	15.215	(0.888)	129815	40.0000	41.39
	103 Pyridine	79	1.176	1.169	(0.202)	257370	40.0000	41.90
	105 1-methylnaphthalene	141	9.247	9.241	(1.165)	201327	40.0000	42.63
	111 Azobenzene (1,2-DP-Hydrazine)	77	11.891	11.890	(1.109)	385879	40.0000	42.79

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: ic102704.d
Lab Smp Id: ABN 40
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem3/nt4.i/20081027.b/SW846.m
Misc Info:

Calibration Date: 27-OCT-2008
Calibration Time: 11:43

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	59818	29909	119636	50787	-15.10
27 Naphthalene-d8	215926	107963	431852	183360	-15.08
42 Acenaphthene-d10	106515	53258	213030	92903	-12.78
59 Phenanthrene-d10	159025	79512	318050	144088	-9.39
69 Chrysene-d12	159466	79733	318932	137636	-13.69
134 Di-n-octylphthala	245174	122587	490348	209256	-14.65
77 Perylene-d12	201890	100945	403780	159857	-20.82

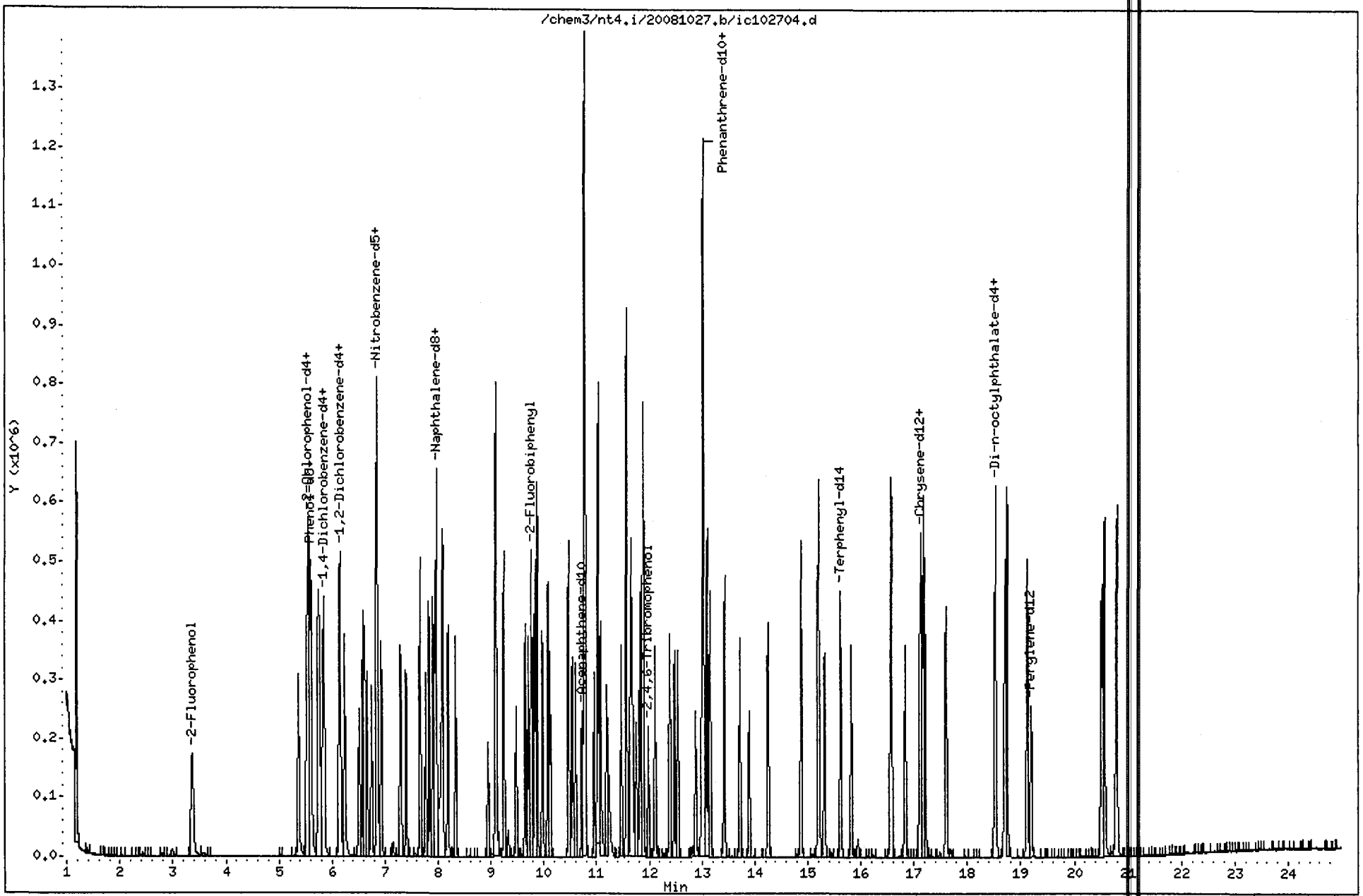
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	5.82	5.32	6.32	5.82	0.02
27 Naphthalene-d8	7.94	7.44	8.44	7.94	0.01
42 Acenaphthene-d10	10.73	10.23	11.23	10.72	-0.05
59 Phenanthrene-d10	12.99	12.49	13.49	13.00	0.01
69 Chrysene-d12	17.14	16.64	17.64	17.14	0.04
134 Di-n-octylphthala	18.52	18.02	19.02	18.52	0.01
77 Perylene-d12	19.20	18.70	19.70	19.20	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

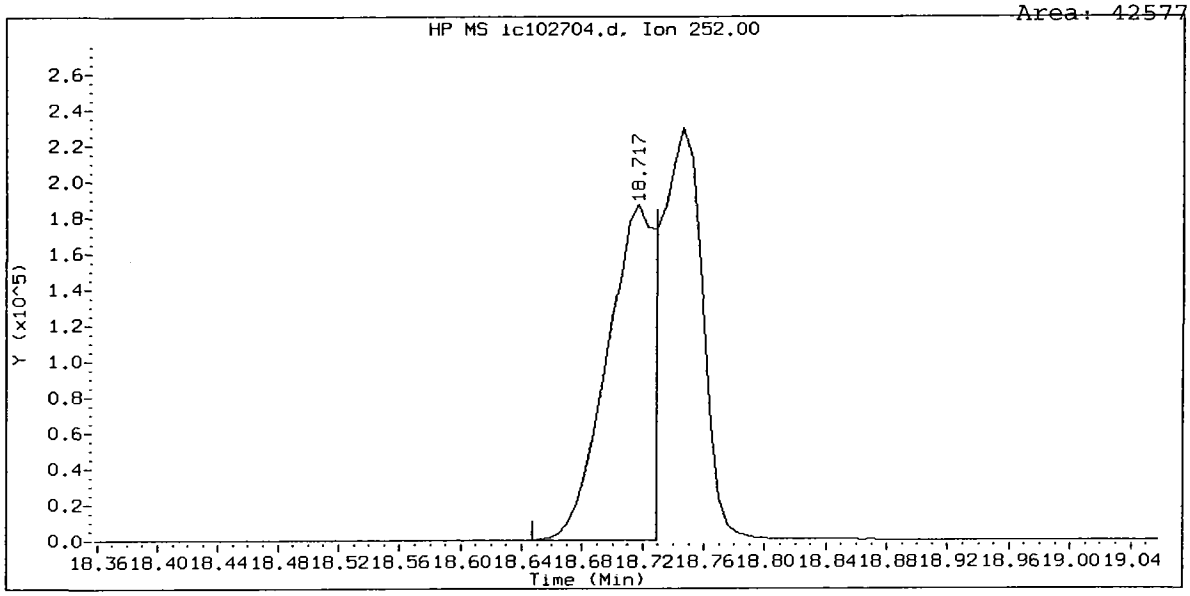
Data File: /chem3/nt4.i/20081027.b/ic102704.d
Date : 27-OCT-2008 13:25
Client ID:
Sample Info: ABN 40
Volume Injected (uL): 1.0
Column phase: ZB-5

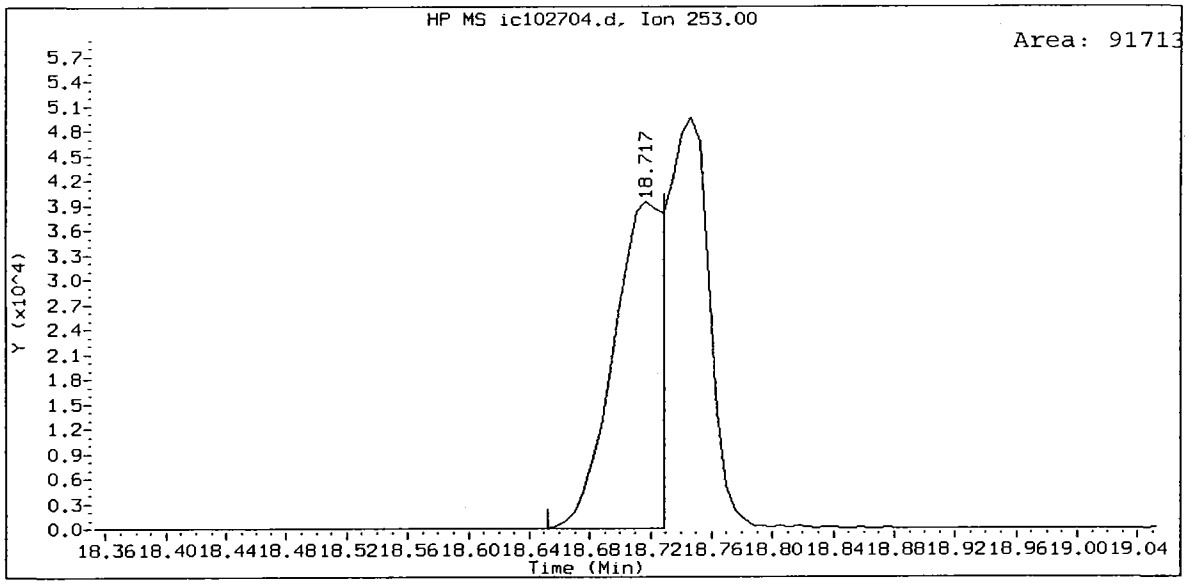
Instrument: nt4.i
Operator: LJR/VTS
Column diameter: 0.32

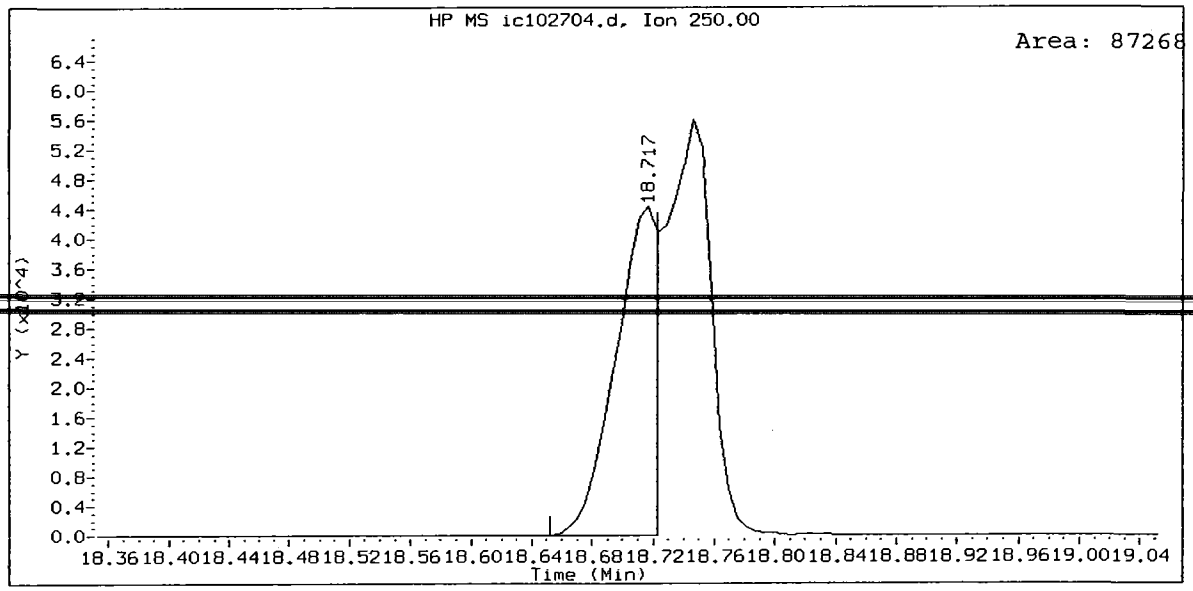
0107



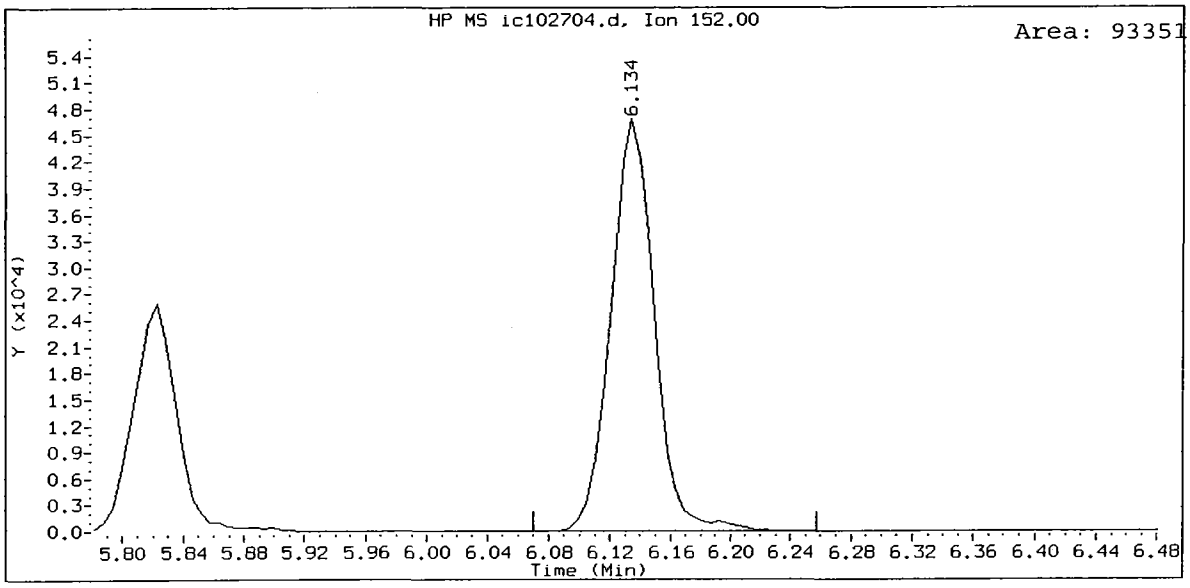
ABN 40, /chem3/nt4.i/20081027.b/ic102704.d
Benzo(b)fluoranthene Amount: 42.50

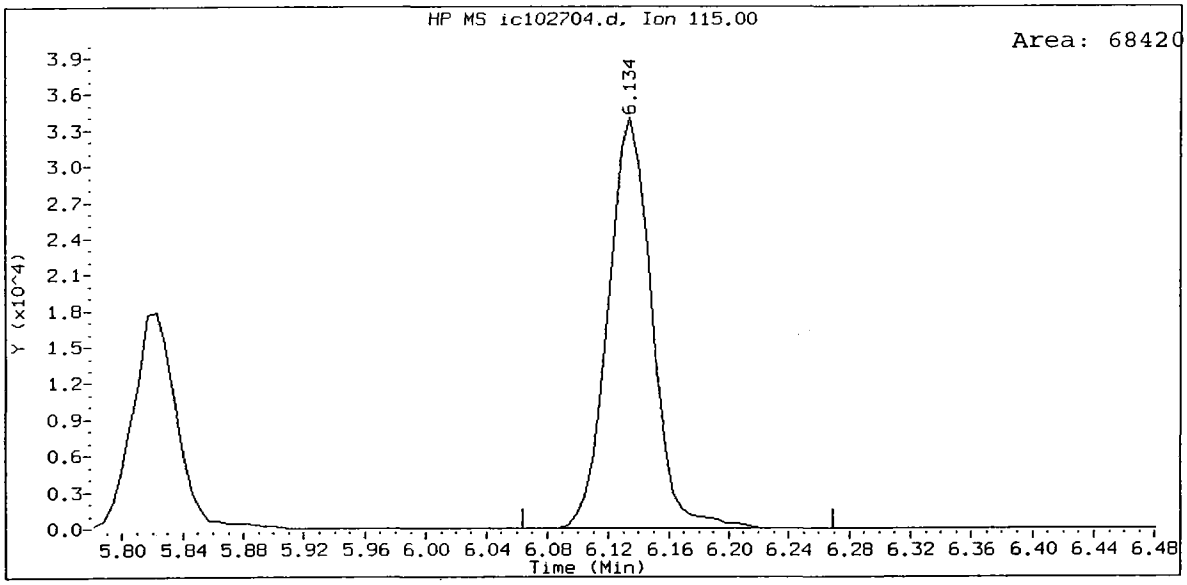


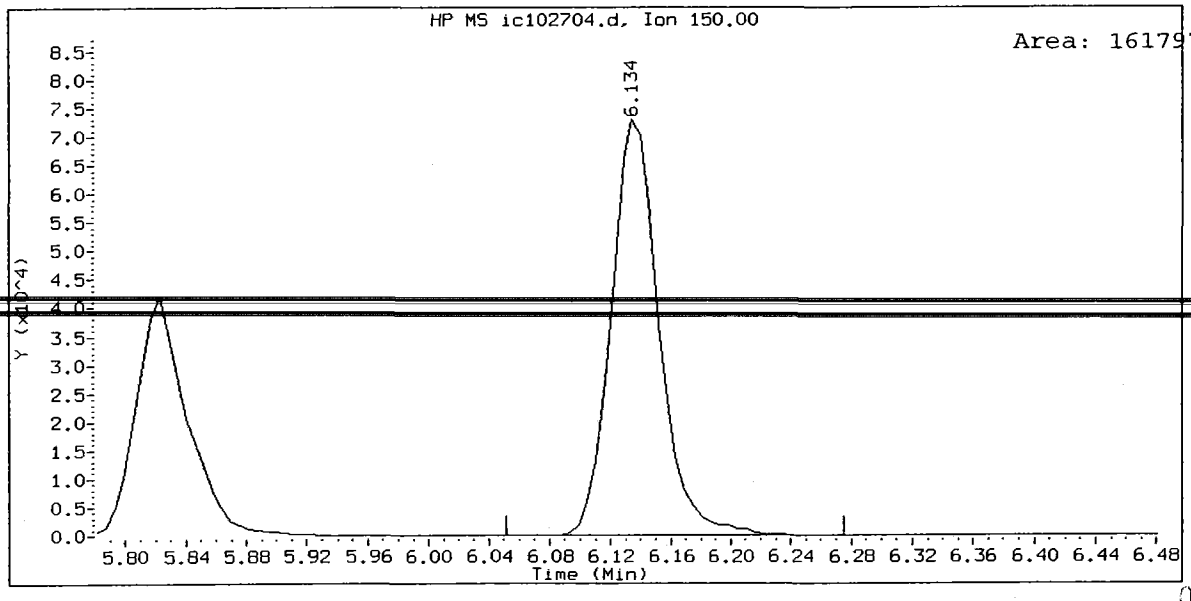




ABN 40, /chem3/nt4.i/20081027.b/ic102704.d
1,2-Dichlorobenzene-d4 Amount: 41.25







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20081027.b/ic102705.d
Lab Smp Id: ABN 5
Inj Date : 27-OCT-2008 13:59
Operator : LJR/VTS Inst ID: nt4.i
Smp Info : ABN 5
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt4.i/20081027.b/SW846.m
Meth Date : 27-Oct-2008 16:10 peter Quant Type: ISTD
Cal Date : 27-OCT-2008 14:33 Cal File: ic102706.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	7.50000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	3.363	3.354	(0.579)	20907	5.00000	4.993
$ 2	Phenol-d5	99	5.577	5.587	(0.960)	29092	5.00000	4.984
3	Phenol	94	5.601	5.604	(0.964)	26229	5.00000	4.630
$ 5	2-Chlorophenol-d4	132	5.519	5.522	(0.949)	17670	5.00000	4.919
4	Bis(2-Chloroethyl)ether	93	5.554	5.557	(0.956)	19823	5.00000	4.659
6	2-Chlorophenol	128	5.542	5.546	(0.954)	18100	5.00000	4.441
7	1,3-Dichlorobenzene	146	5.736	5.739	(0.987)	20505	5.00000	4.712
* 8	1,4-Dichlorobenzene-d4	152	5.812	5.822	(1.000)	58649	20.0000	
9	1,4-Dichlorobenzene	146	5.842	5.845	(1.005)	20231	5.00000	4.586
$ 10	1,2-Dichlorobenzene-d4	152	6.129	6.133	(1.055)	12780	5.00000	4.890
12	1,2-Dichlorobenzene	146	6.153	6.157	(1.059)	19344	5.00000	4.689
11	Benzyl alcohol	108	6.229	6.233	(1.072)	15254	5.00000	5.349
14	2,2'-oxybis(1-Chloropropane)	45	6.505	6.515	(1.119)	22798	5.00000	4.640
13	2-Methylphenol	108	6.576	6.579	(1.131)	19191	5.00000	4.743

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	17 Hexachloroethane	117	6.652	6.662	(1.145)	9029	5.00000	4.718
	16 N-Nitroso-di-n-propylamine	70	6.729	6.738	(1.158)	16076	5.00000	4.668
	15 4-Methylphenol	108	6.834	6.838	(1.176)	19804	5.00000	4.667
$	18 Nitrobenzene-d5	82	6.829	6.838	(0.861)	25092	5.00000	5.080
	19 Nitrobenzene	77	6.852	6.861	(0.864)	32812	5.00000	4.789
	20 Isophorone	82	7.275	7.284	(0.917)	38402	5.00000	4.769
	21 2-Nitrophenol	139	7.398	7.396	(0.933)	9293	5.00000	4.649
	22 2,4-Dimethylphenol	107	7.651	7.660	(0.964)	19678	5.00000	4.749
	23 Bis(2-Chloroethoxy)methane	93	7.757	7.766	(0.978)	21068	5.00000	4.581
	24 Benzoic acid	105	7.909	8.042	(0.997)	17937	10.0000	6.652(M)
	25 2,4-Dichlorophenol	162	7.827	7.831	(0.987)	12969	5.00000	4.531
	26 1,2,4-Trichlorobenzene	180	7.898	7.901	(0.996)	15663	5.00000	4.838
*	27 Naphthalene-d8	136	7.933	7.936	(1.000)	201531	20.0000	
	28 Naphthalene	128	7.962	7.966	(1.004)	48129	5.00000	4.600
	29 4-Chloroaniline	127	8.180	8.189	(1.031)	24196	5.00000	5.567
	30 Hexachlorobutadiene	225	8.332	8.336	(1.050)	8912	5.00000	4.782
	31 4-Chloro-3-methylphenol	107	9.096	9.100	(1.147)	14869	5.00000	4.348
	32 2-Methylnaphthalene	141	9.084	9.088	(1.145)	31919	5.00000	5.203
	33 Hexachlorocyclopentadiene	237	9.472	9.481	(0.883)	4472	5.00000	3.128
	34 2,4,6-Trichlorophenol	196	9.642	9.646	(0.899)	8559	5.00000	4.391
	35 2,4,5-Trichlorophenol	196	9.707	9.711	(0.905)	9232	5.00000	4.477
$	36 2-Fluorobiphenyl	172	9.754	9.763	(0.910)	32784	5.00000	4.946
	37 2-Chloronaphthalene	162	9.824	9.828	(0.916)	26591	5.00000	4.622
	38 2-Nitroaniline	65	10.112	10.122	(0.943)	13705	5.00000	5.382
	39 Dimethylphthalate	163	10.529	10.539	(0.982)	28010	5.00000	4.542
	40 Acenaphthylene	152	10.465	10.474	(0.976)	43270	5.00000	4.643
	41 2,6-Dinitrotoluene	165	10.594	10.603	(0.988)	6680	5.00000	4.653
*	42 Acenaphthene-d10	164	10.723	10.727	(1.000)	97128	20.0000	
	43 3-Nitroaniline	138	10.776	10.786	(1.005)	9405	5.00000	5.661
	44 Acenaphthene	153	10.764	10.774	(1.004)	27434	5.00000	4.456
	45 2,4-Dinitrophenol	184	10.946	10.956	(1.021)	1376	10.0000	14.08
	46 Dibenzofuran	168	11.029	11.032	(1.028)	44428	5.00000	5.218
	47 4-Nitrophenol	109	11.234	11.238	(1.048)	4435	5.00000	3.896
	48 2,4-Dinitrotoluene	165	11.187	11.197	(1.043)	7871	5.00000	4.354
	50 Diethylphthalate	149	11.663	11.678	(1.088)	33082	5.00000	5.025
	49 Fluorene	166	11.557	11.567	(1.078)	27841	5.00000	4.432
	51 4-Chlorophenyl-phenylether	204	11.651	11.655	(1.087)	13718	5.00000	4.454
	52 4-Nitroaniline	138	11.734	11.749	(1.094)	8058	5.00000	5.155
	53 4,6-Dinitro-2-methylphenol	198	11.810	11.825	(0.909)	6897	10.0000	5.805
	54 N-Nitrosodiphenylamine	169	11.863	11.872	(0.913)	18764	5.00000	6.764
$	55 2,4,6-Tribromophenol	330	11.980	11.984	(1.117)	4167	5.00000	4.653
	56 4-Bromophenyl-phenylether	248	12.392	12.395	(0.954)	7801	5.00000	4.677
	57 Hexachlorobenzene	284	12.544	12.548	(0.966)	8522	5.00000	4.774
	58 Pentachlorophenol	266	12.873	12.883	(0.991)	3522	5.00000	6.407
*	59 Phenanthrene-d10	188	12.991	12.994	(1.000)	137214	20.0000	
	60 Phenanthrene	178	13.020	13.024	(1.002)	39484	5.00000	4.643
	61 Anthracene	178	13.091	13.094	(1.008)	39233	5.00000	4.733

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	62 Carbazole	167	13.420	13.429	(1.033)	32879	5.00000	4.731
	63 Di-n-butylphthalate	149	14.254	14.257	(1.097)	41473	5.00000	4.610
	64 Fluoranthene	202	14.871	14.880	(1.145)	37447	5.00000	4.463
	65 Pyrene	202	15.194	15.203	(0.887)	38214	5.00000	4.741
$	66 Terphenyl-d14	244	15.617	15.620	(0.912)	26287	5.00000	4.968
	67 Butylbenzylphthalate	149	16.562	16.566	(0.967)	17587	5.00000	4.698
	68 Benzo(a)anthracene	228	17.109	17.118	(0.999)	38818	5.00000	4.743
*	69 Chrysene-d12	240	17.132	17.136	(1.000)	123749	20.0000	
	70 3,3'-Dichlorobenzidine	252	17.203	17.212	(1.004)	17399	5.00000	5.720
	71 Chrysene	228	17.167	17.177	(1.002)	37595	5.00000	4.717
	72 bis(2-Ethylhexyl)phthalate	149	17.602	17.606	(0.951)	24826	5.00000	4.737
*	134 Di-n-octylphthalate-d4	153	18.513	18.522	(1.000)	190479	20.0000	
	73 Di-n-octylphthalate	149	18.524	18.528	(1.001)	48621	5.00000	4.796
	74 Benzo(b)fluoranthene	252	18.695	18.710	(0.974)	43532	5.00000	4.343
	75 Benzo(k)fluoranthene	252	18.730	18.739	(0.976)	43730	5.00000	4.503(M)
	76 Benzo(a)pyrene	252	19.106	19.115	(0.995)	37980	5.00000	4.409
*	77 Perylene-d12	264	19.194	19.204	(1.000)	159954	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	20.498	20.514	(1.068)	39980	5.00000	4.122
	79 Dibenzo(a,h)anthracene	278	20.545	20.561	(1.070)	41699	5.00000	4.212
	80 Benzo(g,h,i)perylene	276	20.768	20.784	(1.082)	44653	5.00000	4.300
	90 N-Nitrosodimethylamine	74	1.189	1.181	(0.205)	19712	5.00000	4.834
	91 Aniline	93	5.360	5.363	(0.922)	41506	5.00000	5.667
	93 Benzidine	184	15.211	15.215	(0.888)	21867	5.00000	7.754
	103 Pyridine	79	1.177	1.169	(0.203)	36488	5.00000	5.143
	105 1-methylnaphthalene	141	9.237	9.241	(1.164)	23516	5.00000	4.531
	111 Azobenzene (1,2-DP-Hydrazine)	77	11.881	11.890	(1.108)	43370	5.00000	4.600

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: ic102705.d
Lab Smp Id: ABN 5
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem3/nt4.i/20081027.b/SW846.m
Misc Info:

Calibration Date: 27-OCT-2008
Calibration Time: 11:43

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	59818	29909	119636	58649	-1.95
27 Naphthalene-d8	215926	107963	431852	201531	-6.67
42 Acenaphthene-d10	106515	53258	213030	97128	-8.81
59 Phenanthrene-d10	159025	79512	318050	137214	-13.72
69 Chrysene-d12	159466	79733	318932	123749	-22.40
134 Di-n-octylphthala	245174	122587	490348	190479	-22.31
77 Perylene-d12	201890	100945	403780	159954	-20.77

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	5.82	5.32	6.32	5.81	-0.16
27 Naphthalene-d8	7.94	7.44	8.44	7.93	-0.04
42 Acenaphthene-d10	10.73	10.23	11.23	10.72	-0.03
59 Phenanthrene-d10	12.99	12.49	13.49	12.99	-0.03
69 Chrysene-d12	17.14	16.64	17.64	17.13	-0.02
134 Di-n-octylphthala	18.52	18.02	19.02	18.51	-0.05
77 Perylene-d12	19.20	18.70	19.70	19.19	-0.05

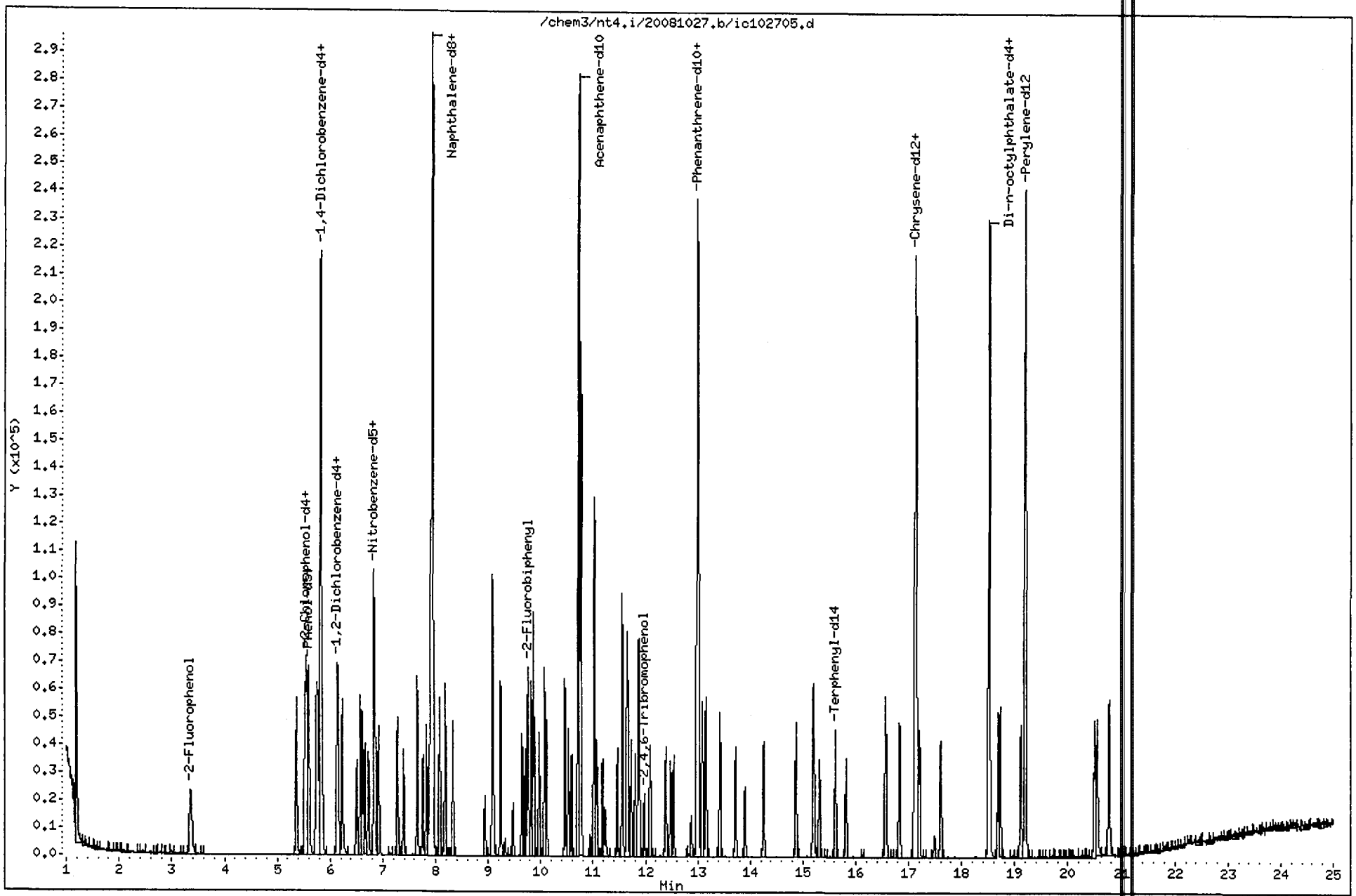
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0114

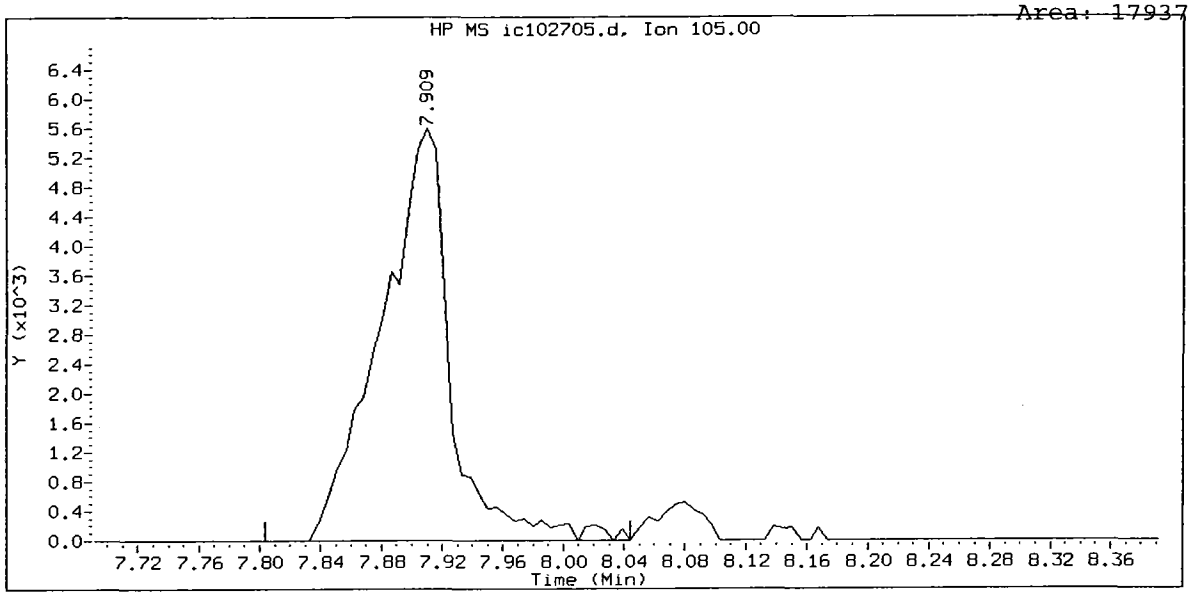
Data File: /chem3/nt4.i/20081027.b/ic102705.d
Date : 27-OCT-2008 13:59
Client ID:
Sample Info: ABN 5
Volume Injected (uL): 1.0
Column phase: ZB-5

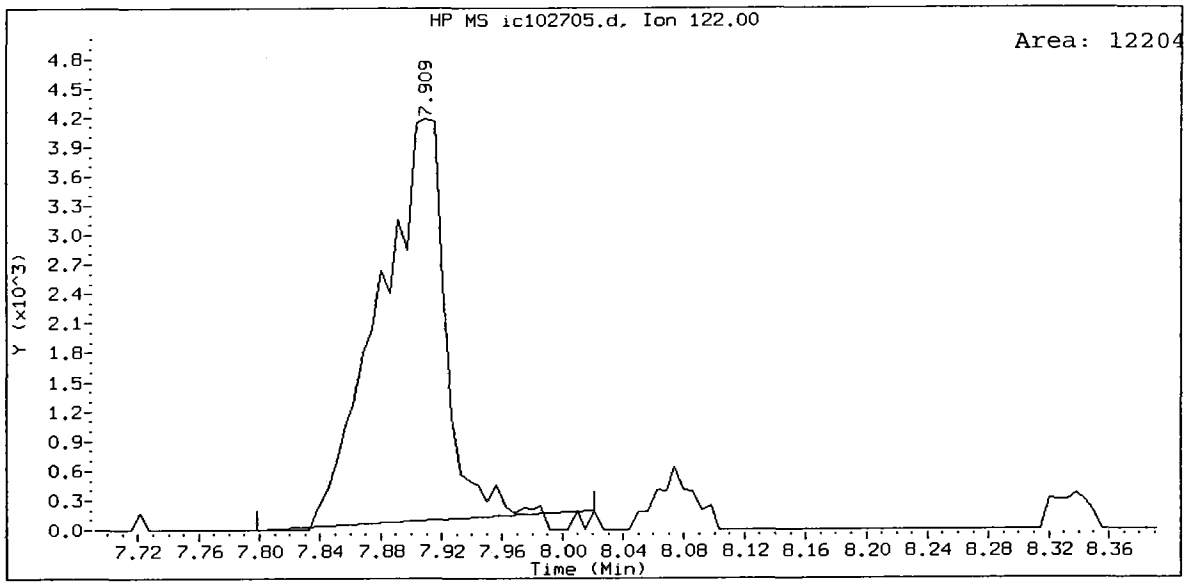
Instrument: nt4.i

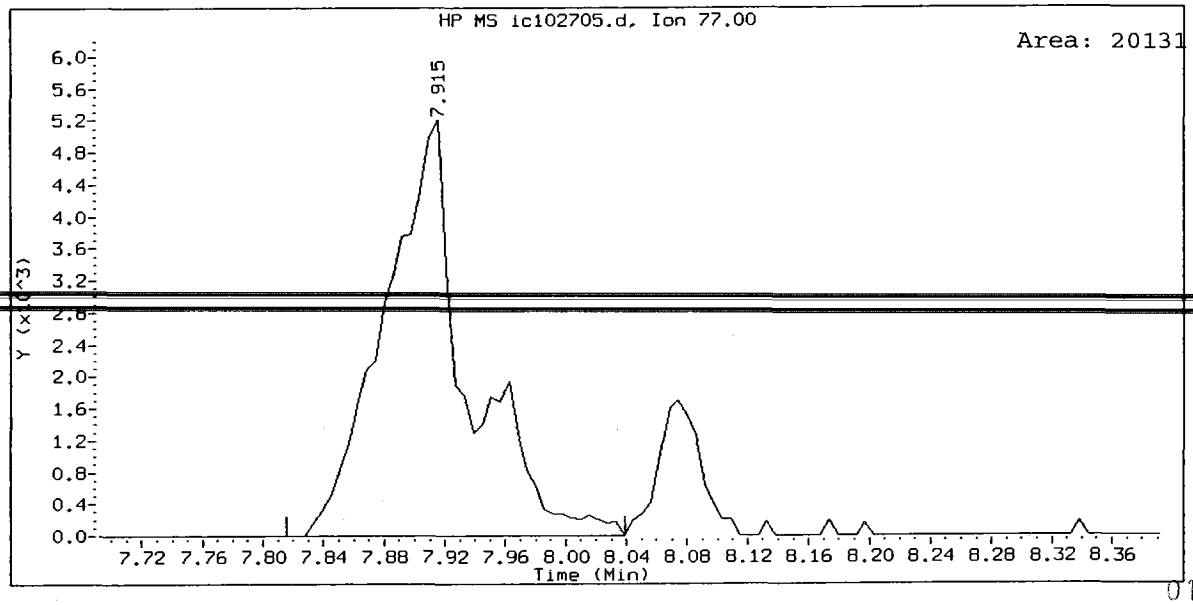
Operator: LJR/VTS
Column diameter: 0.32



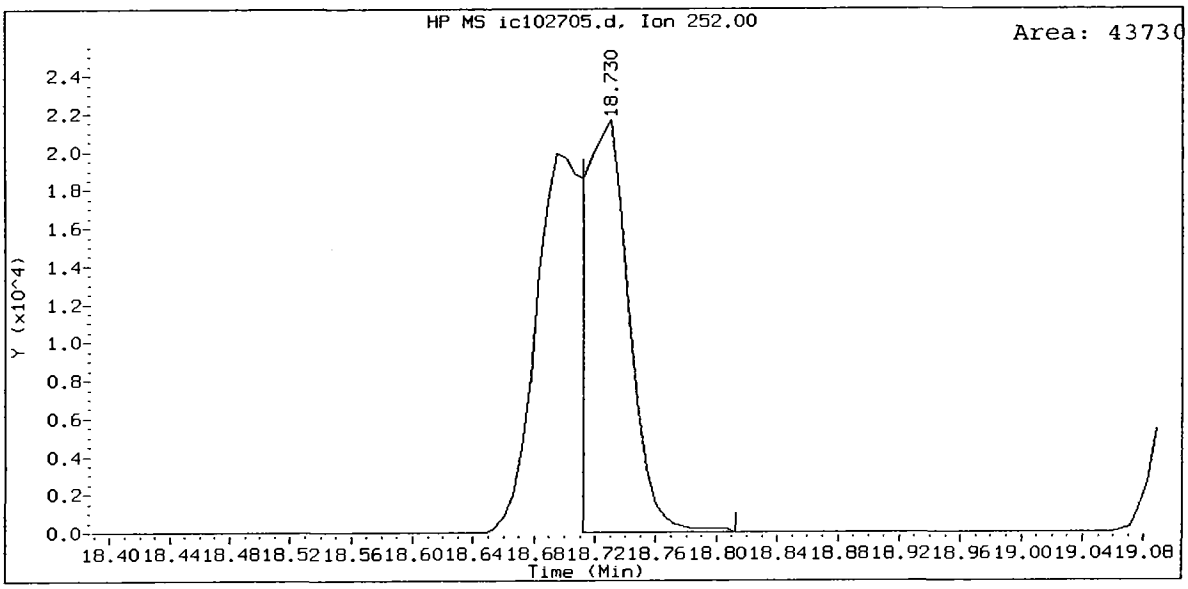
ABN 5, /chem3/nt4.i/20081027.b/ic102705.d
Benzoic acid Amount: 6.65

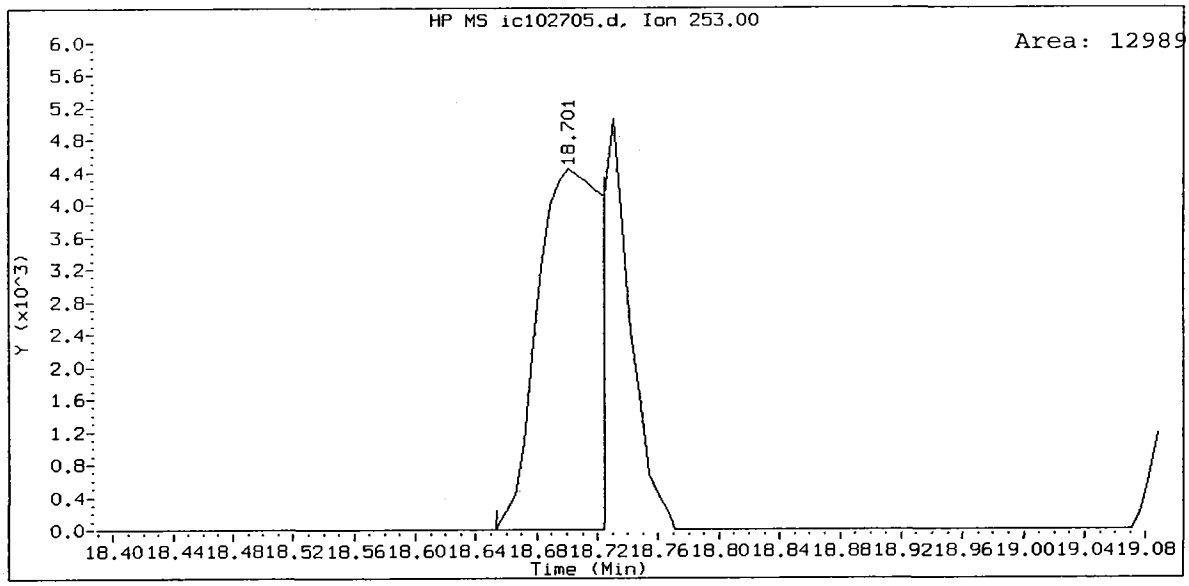


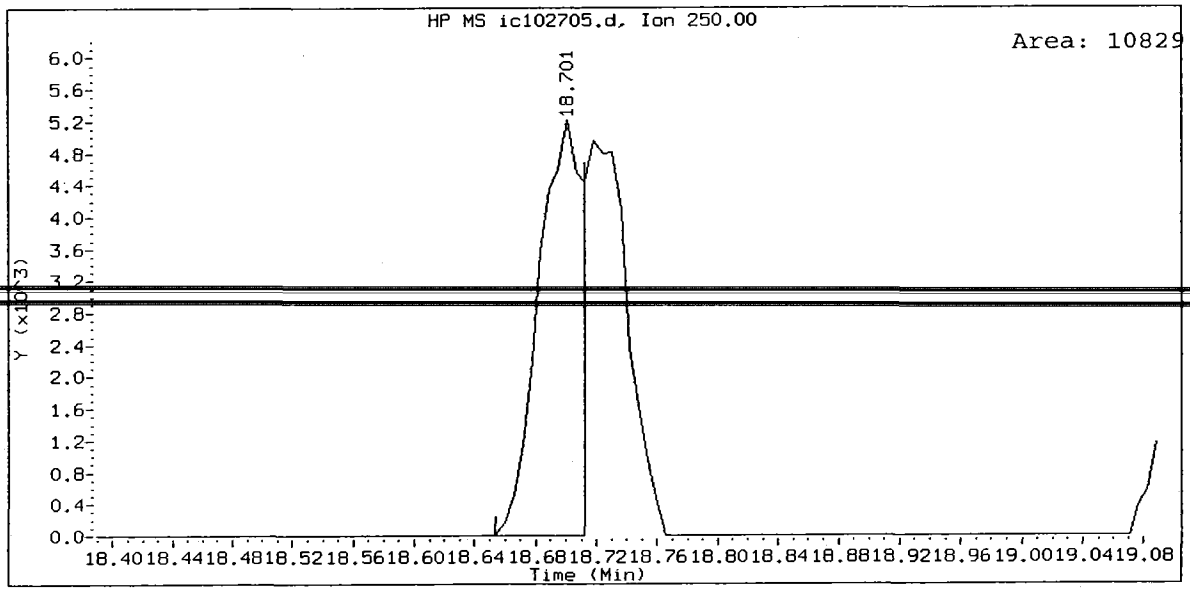




ABN 5, /chem3/nt4.i/20081027.b/ic102705.d
Benzo(k)fluoranthene Amount: 4.50







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20081027.b/ic102706.d
Lab Smp Id: ABN 10
Inj Date : 27-OCT-2008 14:33
Operator : LJR/VTS Inst ID: nt4.i
Smp Info : ABN 10
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt4.i/20081027.b/SW846.m
Meth Date : 27-Oct-2008 16:10 peter Quant Type: ISTD
Cal Date : 27-OCT-2008 14:33 Cal File: ic102706.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	7.50000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	3.361	3.354	(0.578)	48323	10.0000	10.58
$	2 Phenol-d5	99	5.581	5.587	(0.960)	66454	10.0000	10.43
	3 Phenol	94	5.599	5.604	(0.963)	64334	10.0000	10.41
$	5 2-Chlorophenol-d4	132	5.517	5.522	(0.948)	40824	10.0000	10.42
	4 Bis(2-Chloroethyl)ether	93	5.552	5.557	(0.955)	51440	10.0000	11.08
	6 2-Chlorophenol	128	5.546	5.546	(0.954)	48388	10.0000	10.88
	7 1,3-Dichlorobenzene	146	5.734	5.739	(0.986)	50425	10.0000	10.62
*	8 1,4-Dichlorobenzene-d4	152	5.816	5.822	(1.000)	63989	20.0000	
	9 1,4-Dichlorobenzene	146	5.840	5.845	(1.004)	50188	10.0000	10.43
$	10 1,2-Dichlorobenzene-d4	152	6.128	6.133	(1.054)	29618	10.0000	10.39
	12 1,2-Dichlorobenzene	146	6.157	6.157	(1.059)	48455	10.0000	10.76
	11 Benzyl alcohol	108	6.228	6.233	(1.071)	31725	10.0000	10.20
	14 2,2'-oxybis(1-Chloropropane)	45	6.510	6.515	(1.119)	57281	10.0000	10.68
	13 2-Methylphenol	108	6.574	6.579	(1.130)	46249	10.0000	10.48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	17 Hexachloroethane	117	6.662	6.662	(1.145)	23120	10.0000	11.07
	16 N-Nitroso-di-n-propylamine	70	6.733	6.738	(1.158)	41028	10.0000	10.92
	15 4-Methylphenol	108	6.833	6.838	(1.175)	48765	10.0000	10.53
$	18 Nitrobenzene-d5	82	6.833	6.838	(0.861)	59793	10.0000	10.75
	19 Nitrobenzene	77	6.856	6.861	(0.864)	84647	10.0000	10.97
	20 Isophorone	82	7.279	7.284	(0.918)	100821	10.0000	11.12
	21 2-Nitrophenol	139	7.397	7.396	(0.933)	23589	10.0000	10.48
	22 2,4-Dimethylphenol	107	7.655	7.660	(0.965)	50798	10.0000	10.88
	23 Bis(2-Chloroethoxy)methane	93	7.755	7.766	(0.978)	56219	10.0000	10.85
	24 Benzoic acid	105	7.978	8.042	(1.006)	59917	20.0000	19.53(M)
	25 2,4-Dichlorophenol	162	7.825	7.831	(0.987)	34869	10.0000	10.82
	26 1,2,4-Trichlorobenzene	180	7.902	7.901	(0.996)	41005	10.0000	11.25
*	27 Naphthalene-d8	136	7.931	7.936	(1.000)	226992	20.0000	
	28 Naphthalene	128	7.961	7.966	(1.004)	127805	10.0000	10.84
	29 4-Chloroaniline	127	8.184	8.189	(1.032)	53228	10.0000	10.87
	30 Hexachlorobutadiene	225	8.337	8.336	(1.051)	23363	10.0000	11.13
	31 4-Chloro-3-methylphenol	107	9.094	9.100	(1.147)	41454	10.0000	10.76
	32 2-Methylnaphthalene	141	9.083	9.088	(1.145)	71530	10.0000	10.35
	33 Hexachlorocyclopentadiene	237	9.476	9.481	(0.884)	17157	10.0000	10.24
	34 2,4,6-Trichlorophenol	196	9.641	9.646	(0.899)	24117	10.0000	10.56
	35 2,4,5-Trichlorophenol	196	9.705	9.711	(0.905)	25445	10.0000	10.53
$	36 2-Fluorobiphenyl	172	9.758	9.763	(0.910)	82923	10.0000	10.68
	37 2-Chloronaphthalene	162	9.829	9.828	(0.917)	73165	10.0000	10.86
	38 2-Nitroaniline	65	10.117	10.122	(0.944)	32226	10.0000	10.80
	39 Dimethylphthalate	163	10.534	10.539	(0.982)	79762	10.0000	11.04
	40 Acenaphthylene	152	10.469	10.474	(0.976)	119622	10.0000	10.96
	41 2,6-Dinitrotoluene	165	10.598	10.603	(0.988)	17770	10.0000	10.57
*	42 Acenaphthene-d10	164	10.722	10.727	(1.000)	113775	20.0000	
	43 3-Nitroaniline	138	10.780	10.786	(1.005)	21981	10.0000	11.30
	44 Acenaphthene	153	10.769	10.774	(1.004)	78501	10.0000	10.89
	45 2,4-Dinitrophenol	184	10.945	10.956	(1.021)	9761	20.0000	21.35
	46 Dibenzofuran	168	11.033	11.032	(1.029)	104158	10.0000	10.44
	47 4-Nitrophenol	109	11.227	11.238	(1.047)	14290	10.0000	10.72
	48 2,4-Dinitrotoluene	165	11.186	11.197	(1.043)	22414	10.0000	10.59
	50 Diethylphthalate	149	11.673	11.678	(1.089)	86193	10.0000	11.14
	49 Fluorene	166	11.562	11.567	(1.078)	79660	10.0000	10.83
	51 4-Chlorophenyl-phenylether	204	11.650	11.655	(1.087)	39338	10.0000	10.90
	52 4-Nitroaniline	138	11.738	11.749	(1.095)	19461	10.0000	10.63
	53 4,6-Dinitro-2-methylphenol	198	11.814	11.825	(0.910)	27047	20.0000	18.07
	54 N-Nitrosodiphenylamine	169	11.867	11.872	(0.914)	55209	10.0000	12.26
$	55 2,4,6-Tribromophenol	330	11.985	11.984	(1.118)	10661	10.0000	10.16
	56 4-Bromophenyl-phenylether	248	12.390	12.395	(0.954)	22395	10.0000	10.66
	57 Hexachlorobenzene	284	12.543	12.548	(0.966)	23167	10.0000	10.30
	58 Pentachlorophenol	266	12.877	12.883	(0.991)	10966	10.0000	10.82
*	59 Phenanthrene-d10	188	12.989	12.994	(1.000)	172870	20.0000	
	60 Phenanthrene	178	13.024	13.024	(1.003)	114057	10.0000	10.64
	61 Anthracene	178	13.095	13.094	(1.008)	112612	10.0000	10.78

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	62 Carbazole	167	13.424	13.429	(1.033)	94974	10.0000	10.85
	63 Di-n-butylphthalate	149	14.252	14.257	(1.097)	123355	10.0000	10.88
	64 Fluoranthene	202	14.875	14.880	(1.145)	112201	10.0000	10.61
	65 Pyrene	202	15.192	15.203	(0.887)	116671	10.0000	10.89
$	66 Terphenyl-d14	244	15.615	15.620	(0.912)	75596	10.0000	10.75
	67 Butylbenzylphthalate	149	16.561	16.566	(0.967)	54323	10.0000	10.91
	68 Benzo(a)anthracene	228	17.113	17.118	(0.999)	118273	10.0000	10.87
*	69 Chrysene-d12	240	17.131	17.136	(1.000)	164524	20.0000	
	70 3,3'-Dichlorobenzidine	252	17.207	17.212	(1.004)	43636	10.0000	10.79
	71 Chrysene	228	17.166	17.177	(1.002)	112282	10.0000	10.60
	72 bis(2-Ethylhexyl)phthalate	149	17.606	17.606	(0.951)	77609	10.0000	11.17
*	134 Di-n-octylphthalate-d4	153	18.517	18.522	(1.000)	252497	20.0000	
	73 Di-n-octylphthalate	149	18.529	18.528	(1.001)	149383	10.0000	11.12
	74 Benzo(b)fluoranthene	252	18.705	18.710	(0.974)	132976	10.0000	10.57
	75 Benzo(k)fluoranthene	252	18.734	18.739	(0.976)	134681	10.0000	11.05(M)
	76 Benzo(a)pyrene	252	19.116	19.115	(0.996)	119047	10.0000	11.01
*	77 Perylene-d12	264	19.198	19.204	(1.000)	200753	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	20.502	20.514	(1.068)	124531	10.0000	10.23
	79 Dibenzo(a,h)anthracene	278	20.555	20.561	(1.071)	128315	10.0000	10.33
	80 Benzo(g,h,i)perylene	276	20.773	20.784	(1.082)	133324	10.0000	10.23
	90 N-Nitrosodimethylamine	74	1.187	1.181	(0.204)	48390	10.0000	10.88
	91 Aniline	93	5.364	5.363	(0.922)	82558	10.0000	10.33
	93 Benzidine	184	15.215	15.215	(0.888)	48542	10.0000	12.95
	103 Pyridine	79	1.182	1.169	(0.203)	82399	10.0000	10.65
	105 1-methylnaphthalene	141	9.241	9.241	(1.165)	64002	10.0000	10.95
	111 Azobenzene (1,2-DP-Hydrazine)	77	11.885	11.890	(1.108)	125067	10.0000	11.32

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: ic102706.d
Lab Smp Id: ABN 10
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem3/nt4.i/20081027.b/SW846.m
Misc Info:

Calibration Date: 27-OCT-2008
Calibration Time: 11:43

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	59818	29909	119636	63989	6.97
27 Naphthalene-d8	215926	107963	431852	226992	5.12
42 Acenaphthene-d10	106515	53258	213030	113775	6.82
59 Phenanthrene-d10	159025	79512	318050	172870	8.71
69 Chrysene-d12	159466	79733	318932	164524	3.17
134 Di-n-octylphthala	245174	122587	490348	252497	2.99
77 Perylene-d12	201890	100945	403780	200753	-0.56

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	5.82	5.32	6.32	5.82	-0.09
27 Naphthalene-d8	7.94	7.44	8.44	7.93	-0.07
42 Acenaphthene-d10	10.73	10.23	11.23	10.72	-0.05
59 Phenanthrene-d10	12.99	12.49	13.49	12.99	-0.04
69 Chrysene-d12	17.14	16.64	17.64	17.13	-0.03
134 Di-n-octylphthala	18.52	18.02	19.02	18.52	-0.03
77 Perylene-d12	19.20	18.70	19.70	19.20	-0.03

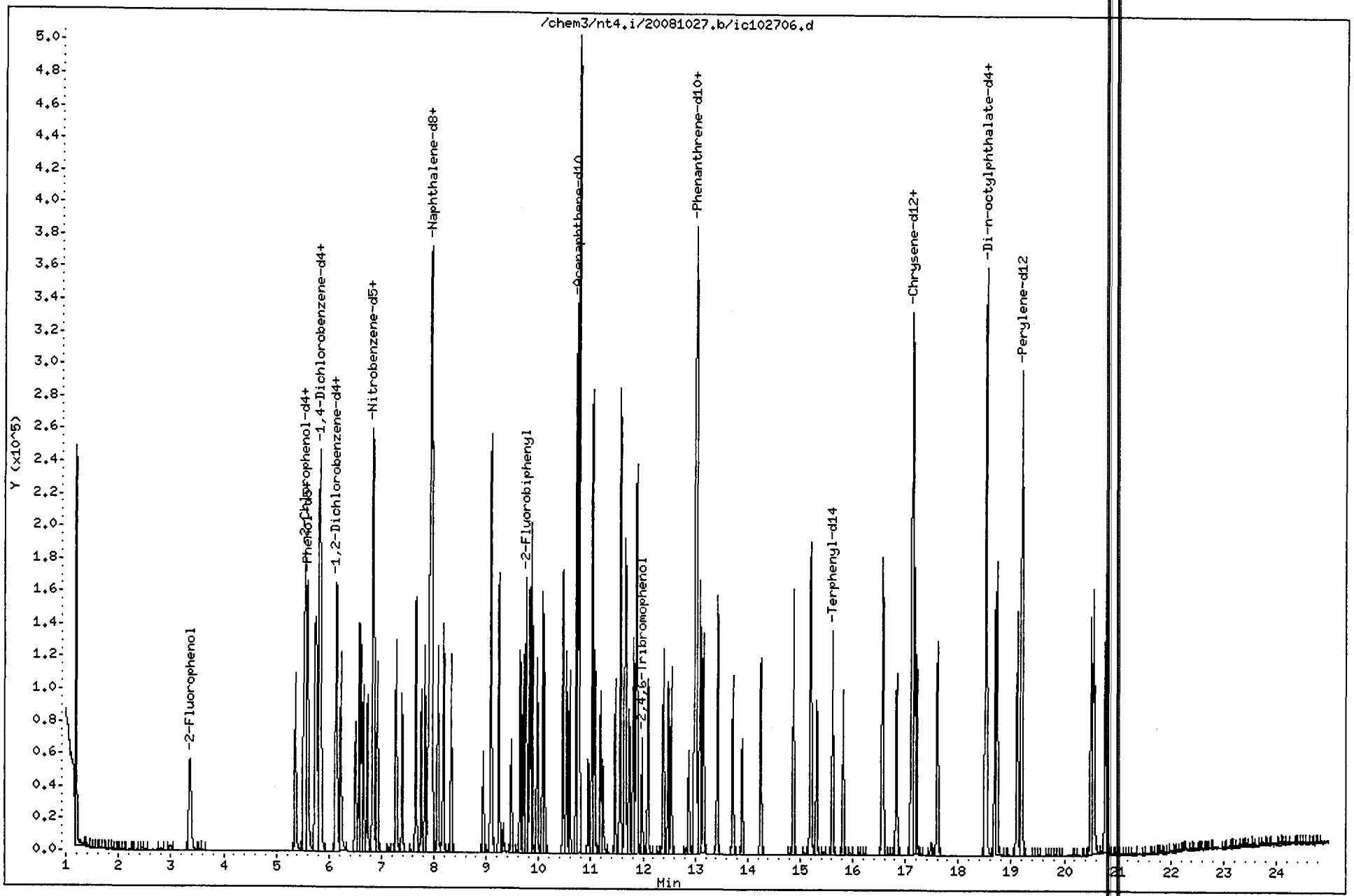
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

0121

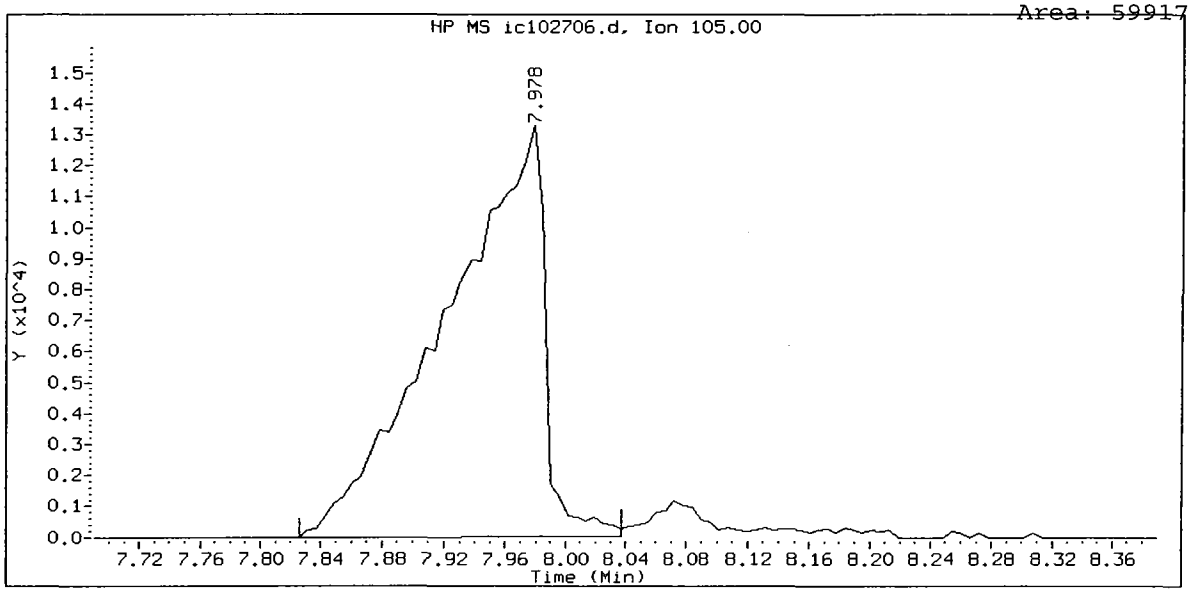
Data File: /chem3/nt4.i/20081027.b/ic102706.d
Date : 27-OCT-2008 14:33
Client ID:
Sample Info: ABN 10
Volume Injected (uL): 1.0
Column phase: ZB-5

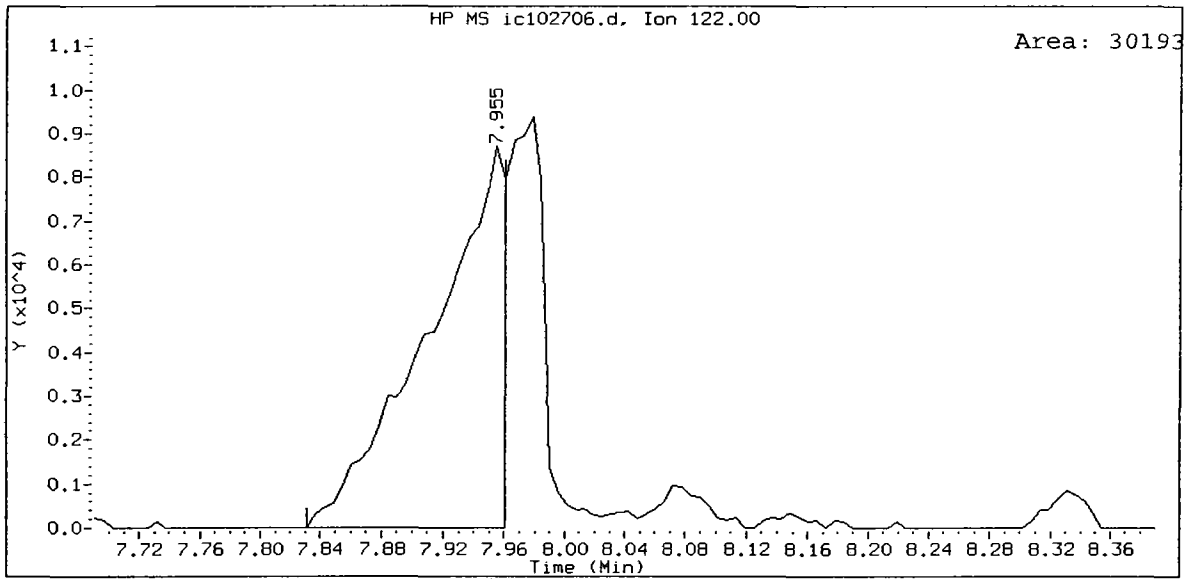
Instrument: nt4.i

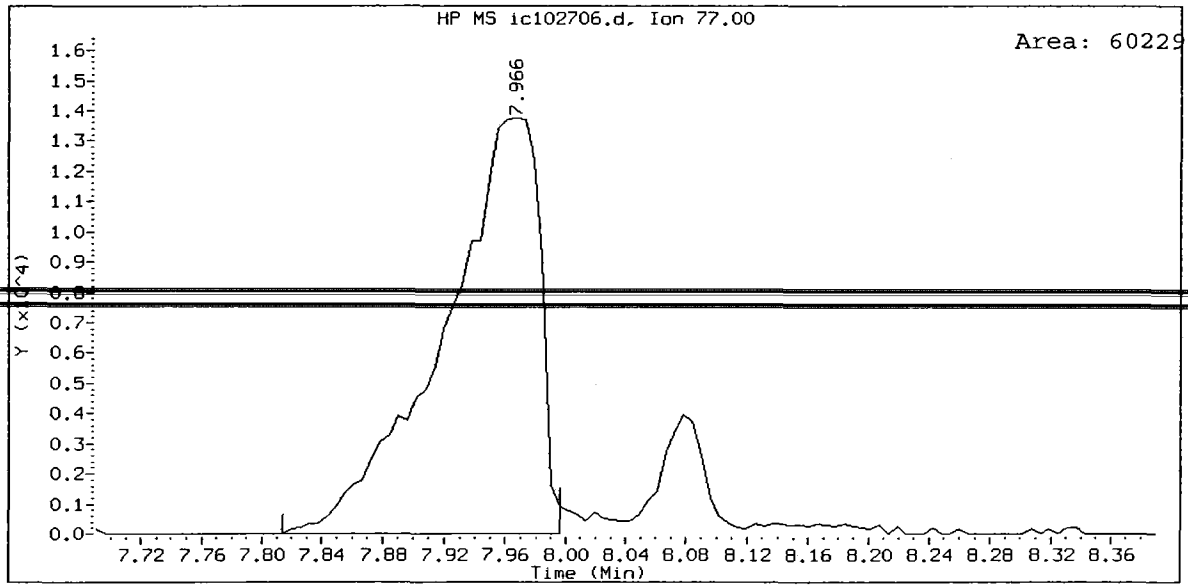
Operator: LJR/VTS
Column diameter: 0.32



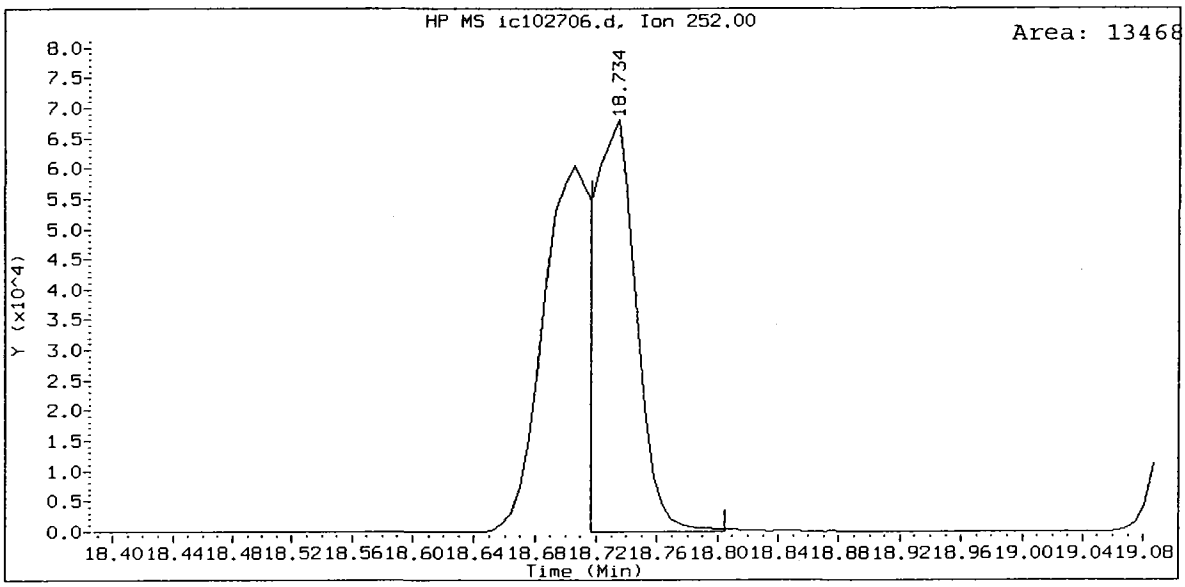
ABN 10, /chem3/nt4.i/20081027.b/ic102706.d
Benzoic acid Amount: 19.53

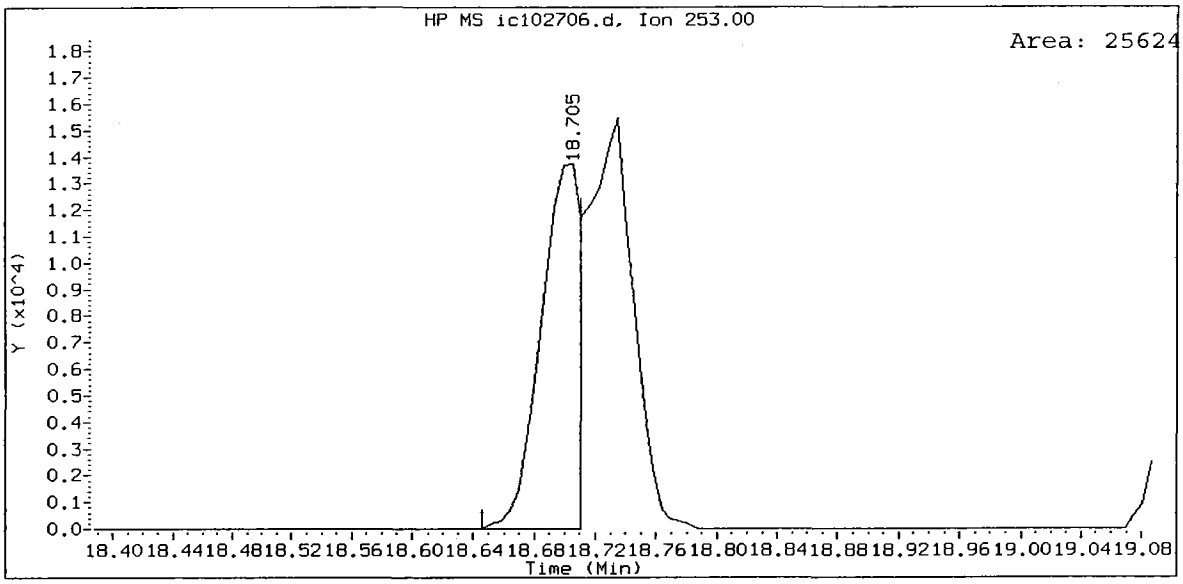


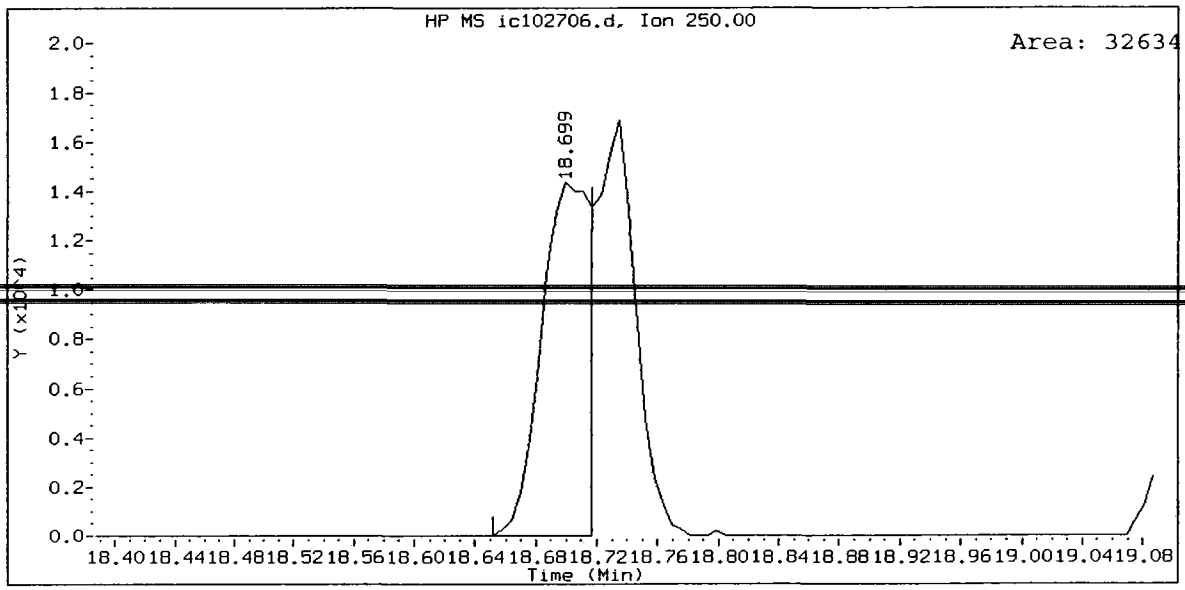




ABN 10, /chem3/nt4.i/20081027.b/ic102706.d
Benzo(k)fluoranthene Amount: 11.05







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20081027.b/ic102707.d
Lab Smp Id: ICV
Inj Date : 27-OCT-2008 15:07
Operator : LJR/VTS Inst ID: nt4.i
Smp Info : ICV
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt4.i/20081027.b/SW846.m
Meth Date : 27-Oct-2008 16:10 peter Quant Type: ISTD
Cal Date : 27-OCT-2008 14:33 Cal File: ic102706.d
Als bottle: 7 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	7.50000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
$	1 2-Fluorophenol	112	3.361	3.354	(0.578)	78702	20.0956	1340
$	2 Phenol-d5	99	5.582	5.587	(0.960)	117435	21.5106	1434
	3 Phenol	94	5.599	5.604	(0.963)	126422	23.8603	1591
$	5 2-Chlorophenol-d4	132	5.517	5.522	(0.948)	70639	21.0249	1402
	4 Bis(2-Chloroethyl)ether	93	5.552	5.557	(0.955)	87798	22.0666	1471
	6 2-Chlorophenol	128	5.547	5.546	(0.954)	87267	22.8965	1526
	7 1,3-Dichlorobenzene	146	5.740	5.739	(0.987)	86987	21.3718	1425
*	8 1,4-Dichlorobenzene-d4	152	5.817	5.822	(1.000)	54850	20.0000	
	9 1,4-Dichlorobenzene	146	5.846	5.845	(1.005)	86087	20.8646	1391
$	10 1,2-Dichlorobenzene-d4	152	6.134	6.133	(1.055)	52048	21.2930	1420(R)
	12 1,2-Dichlorobenzene	146	6.152	6.157	(1.058)	86914	22.5252	1502
	11 Benzyl alcohol	108	6.234	6.233	(1.072)	55322	20.7419	1383
	14 2,2'-oxybis(1-Chloropropane)	45	6.516	6.515	(1.120)	98049	21.3361	1422
	13 2-Methylphenol	108	6.580	6.579	(1.131)	84905	22.4353	1496

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
	17 Hexachloroethane	117	6.663	6.662	(1.145)	40791	22.7932	1520
	16 N-Nitroso-di-n-propylamine	70	6.739	6.738	(1.159)	71823	22.3014	1487
	15 4-Methylphenol	108	6.833	6.838	(1.175)	92314	23.2616	1551
$	18 Nitrobenzene-d5	82	6.833	6.838	(0.861)	103229	21.3832	1426
	19 Nitrobenzene	77	6.862	6.861	(0.865)	150131	22.4210	1495
	20 Isophorone	82	7.280	7.284	(0.917)	163234	20.7391	1383
	21 2-Nitrophenol	139	7.397	7.396	(0.932)	43092	22.0567	1470
	22 2,4-Dimethylphenol	107	7.656	7.660	(0.964)	93968	23.1998	1547
	23 Bis(2-Chloroethoxy)methane	93	7.761	7.766	(0.978)	97080	21.5960	1440
	24 Benzoic acid	105	8.031	8.042	(1.012)	119877	44.1313	2942(M)
	25 2,4-Dichlorophenol	162	7.826	7.831	(0.986)	63124	22.5628	1504
	26 1,2,4-Trichlorobenzene	180	7.902	7.901	(0.996)	70559	22.3000	1487
*	27 Naphthalene-d8	136	7.937	7.936	(1.000)	196976	20.0000	
	28 Naphthalene	128	7.967	7.966	(1.004)	227517	22.2474	1483
	29 4-Chloroaniline	127	8.184	8.189	(1.031)	93063	21.9076	1461
	30 Hexachlorobutadiene	225	8.331	8.336	(1.050)	41694	22.8919	1526
	31 4-Chloro-3-methylphenol	107	9.095	9.100	(1.146)	78629	23.5228	1568
	32 2-Methylnaphthalene	141	9.083	9.088	(1.144)	127003	21.1829	1412
	33 Hexachlorocyclopentadiene	237	9.477	9.481	(0.884)	32558	22.1185	1475
	34 2,4,6-Trichlorophenol	196	9.641	9.646	(0.899)	45178	22.5104	1501
	35 2,4,5-Trichlorophenol	196	9.706	9.711	(0.905)	48068	22.6421	1509
$	36 2-Fluorobiphenyl	172	9.759	9.763	(0.910)	144034	21.1045	1407
	37 2-Chloronaphthalene	162	9.829	9.828	(0.917)	130010	21.9515	1463
	38 2-Nitroaniline	65	10.117	10.122	(0.944)	55614	21.2147	1414
	39 Dimethylphthalate	163	10.540	10.539	(0.983)	141109	22.2265	1482
	40 Acenaphthylene	152	10.469	10.474	(0.976)	196969	20.5270	1368
	41 2,6-Dinitrotoluene	165	10.604	10.603	(0.989)	31522	21.3280	1422
*	42 Acenaphthene-d10	164	10.722	10.727	(1.000)	99996	20.0000	
	43 3-Nitroaniline	138	10.781	10.786	(1.005)	38879	22.7326	1516
	44 Acenaphthene	153	10.769	10.774	(1.004)	133010	20.9859	1399
	45 2,4-Dinitrophenol	184	10.951	10.956	(1.021)	34018	47.1490	3143
	46 Dibenzofuran	168	11.033	11.032	(1.029)	176422	20.1279	1342
	47 4-Nitrophenol	109	11.227	11.238	(1.047)	28320	24.1662	1611
	48 2,4-Dinitrotoluene	165	11.192	11.197	(1.044)	41045	22.0554	1470
	50 Diethylphthalate	149	11.679	11.678	(1.089)	149096	21.8177	1455
	49 Fluorene	166	11.562	11.567	(1.078)	142818	22.0853	1472
	51 4-Chlorophenyl-phenylether	204	11.650	11.655	(1.087)	71662	22.6019	1507
	52 4-Nitroaniline	138	11.744	11.749	(1.095)	34602	21.5018	1433
	53 4,6-Dinitro-2-methylphenol	198	11.820	11.825	(0.910)	58605	44.5245	2968
	54 N-Nitrosodiphenylamine	169	11.873	11.872	(0.914)	69400	16.3968	1093
$	55 2,4,6-Tribromophenol	330	11.985	11.984	(1.118)	20279	21.9935	1466
	56 4-Bromophenyl-phenylether	248	12.390	12.395	(0.954)	40385	21.8542	1457
	57 Hexachlorobenzene	284	12.543	12.548	(0.966)	43539	22.0177	1468
	58 Pentachlorophenol	266	12.884	12.883	(0.992)	23747	21.6789	1445
*	59 Phenanthrene-d10	188	12.989	12.994	(1.000)	152007	20.0000	
	60 Phenanthrene	178	13.025	13.024	(1.003)	204280	21.6817	1445
	61 Anthracene	178	13.095	13.094	(1.008)	203815	22.1974	1480

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
	62 Carbazole	167	13.430	13.429	(1.034)	162934	21.1624	1411
	63 Di-n-butylphthalate	149	14.252	14.257	(1.097)	223194	22.3940	1493
	64 Fluoranthene	202	14.875	14.880	(1.145)	210116	22.6028	1507
	65 Pyrene	202	15.198	15.203	(0.887)	222663	22.1143	1474
$	66 Terphenyl-d14	244	15.621	15.620	(0.912)	134302	20.3158	1354
	67 Butylbenzylphthalate	149	16.561	16.566	(0.966)	104230	22.2851	1486
	68 Benzo(a)anthracene	228	17.113	17.118	(0.999)	232168	22.7062	1514
*	69 Chrysene-d12	240	17.137	17.136	(1.000)	154600	20.0000	
	70 3,3'-Dichlorobenzidine	252	17.213	17.212	(1.004)	81310	21.3969	1426
	71 Chrysene	228	17.172	17.177	(1.002)	213017	21.3937	1426
	72 bis(2-Ethylhexyl)phthalate	149	17.601	17.606	(0.950)	142998	21.4745	1432
*	134 Di-n-octylphthalate-d4	153	18.517	18.522	(1.000)	242005	20.0000	
	73 Di-n-octylphthalate	149	18.529	18.528	(1.001)	271582	21.0842	1406
	74 Benzo(b)fluoranthene	252	18.705	18.710	(0.974)	264459	22.2048	1480(M)
	75 Benzo(k)fluoranthene	252	18.740	18.739	(0.976)	257782	22.3436	1490
	76 Benzo(a)pyrene	252	19.116	19.115	(0.996)	220329	21.5279	1435
*	77 Perylene-d12	264	19.199	19.204	(1.000)	190047	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	20.509	20.514	(1.068)	265326	23.0261	1535
	79 Dibenzo(a,h)anthracene	278	20.562	20.561	(1.071)	265319	22.5579	1504
	80 Benzo(g,h,i)perylene	276	20.785	20.784	(1.083)	273694	22.1849	1479
	90 N-Nitrosodimethylamine	74	1.188	1.181	(0.204)	73870	19.3695	1291
	91 Aniline	93	5.364	5.363	(0.922)	137378	20.0570	1337
	93 Benzidine	184	15.216	15.215	(0.888)	63198	17.9385	1196
	103 Pyridine	79	1.176	1.169	(0.202)	115826	17.4579	1164
	105 1-methylnaphthalene	141	9.242	9.241	(1.164)	115668	22.8000	1520
	111 Azobenzene (1,2-DP-Hydrazine)	77	11.885	11.890	(1.108)	209097	21.5411	1436

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: ic102707.d
Lab Smp Id: ICV
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem3/nt4.i/20081027.b/SW846.m
Misc Info:

Calibration Date: 27-OCT-2008
Calibration Time: 11:43

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	59818	29909	119636	54850	-8.31
27 Naphthalene-d8	215926	107963	431852	196976	-8.78
42 Acenaphthene-d10	106515	53258	213030	99996	-6.12
59 Phenanthrene-d10	159025	79512	318050	152007	-4.41
69 Chrysene-d12	159466	79733	318932	154600	-3.05
134 Di-n-octylphthala	245174	122587	490348	242005	-1.29
77 Perylene-d12	201890	100945	403780	190047	-5.87

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	5.82	5.32	6.32	5.82	-0.08
27 Naphthalene-d8	7.94	7.44	8.44	7.94	0.01
42 Acenaphthene-d10	10.73	10.23	11.23	10.72	-0.05
59 Phenanthrene-d10	12.99	12.49	13.49	12.99	-0.04
69 Chrysene-d12	17.14	16.64	17.64	17.14	0.01
134 Di-n-octylphthala	18.52	18.02	19.02	18.52	-0.03
77 Perylene-d12	19.20	18.70	19.70	19.20	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: ICV
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem3/nt4.i/20081027.b/SW846.m
Misc Info:

Client SDG: 20081027
Fraction: SV

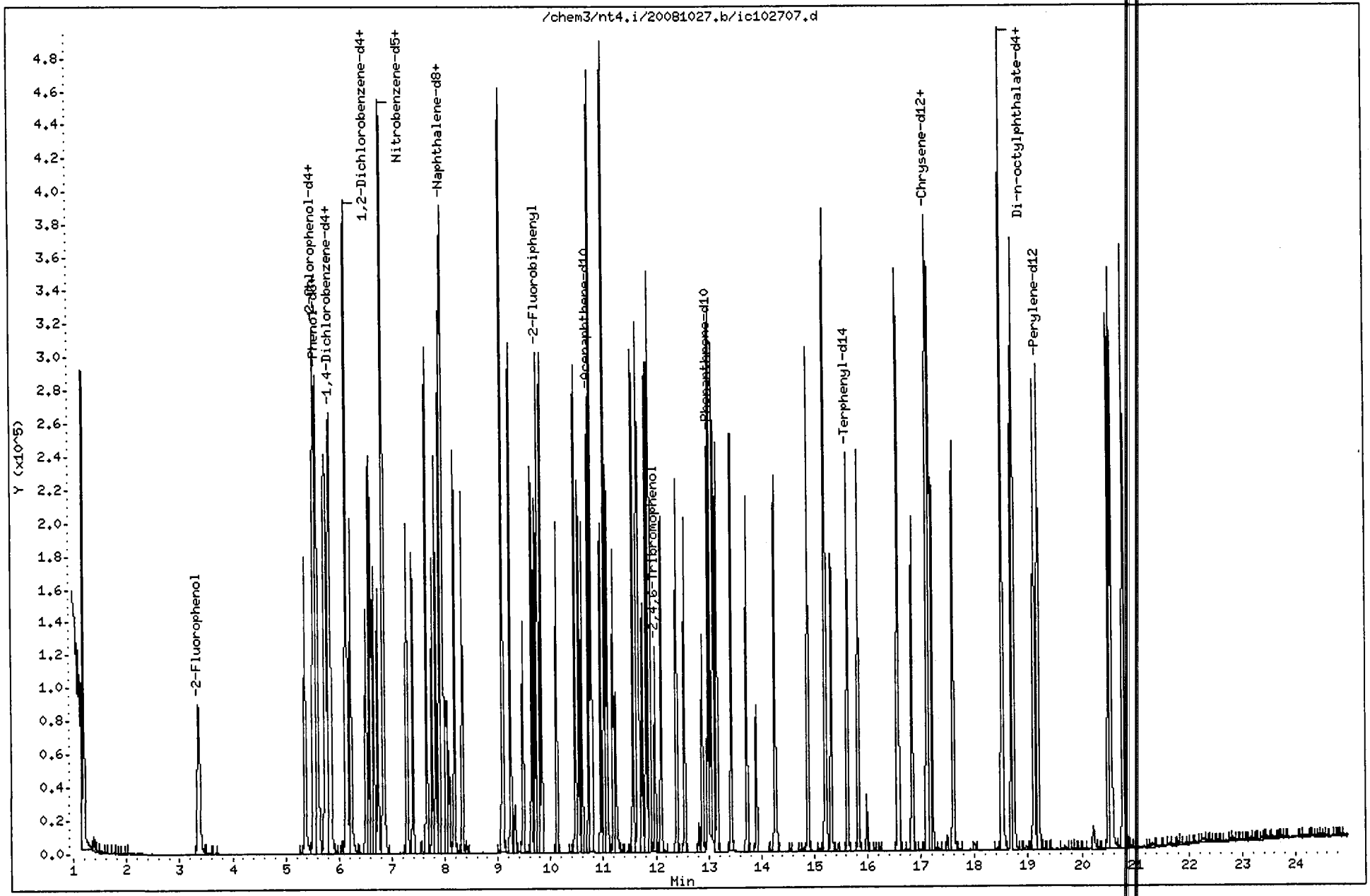
Operator: LJR/VTS
SampleType: BLANK
Quant Type: ISTD

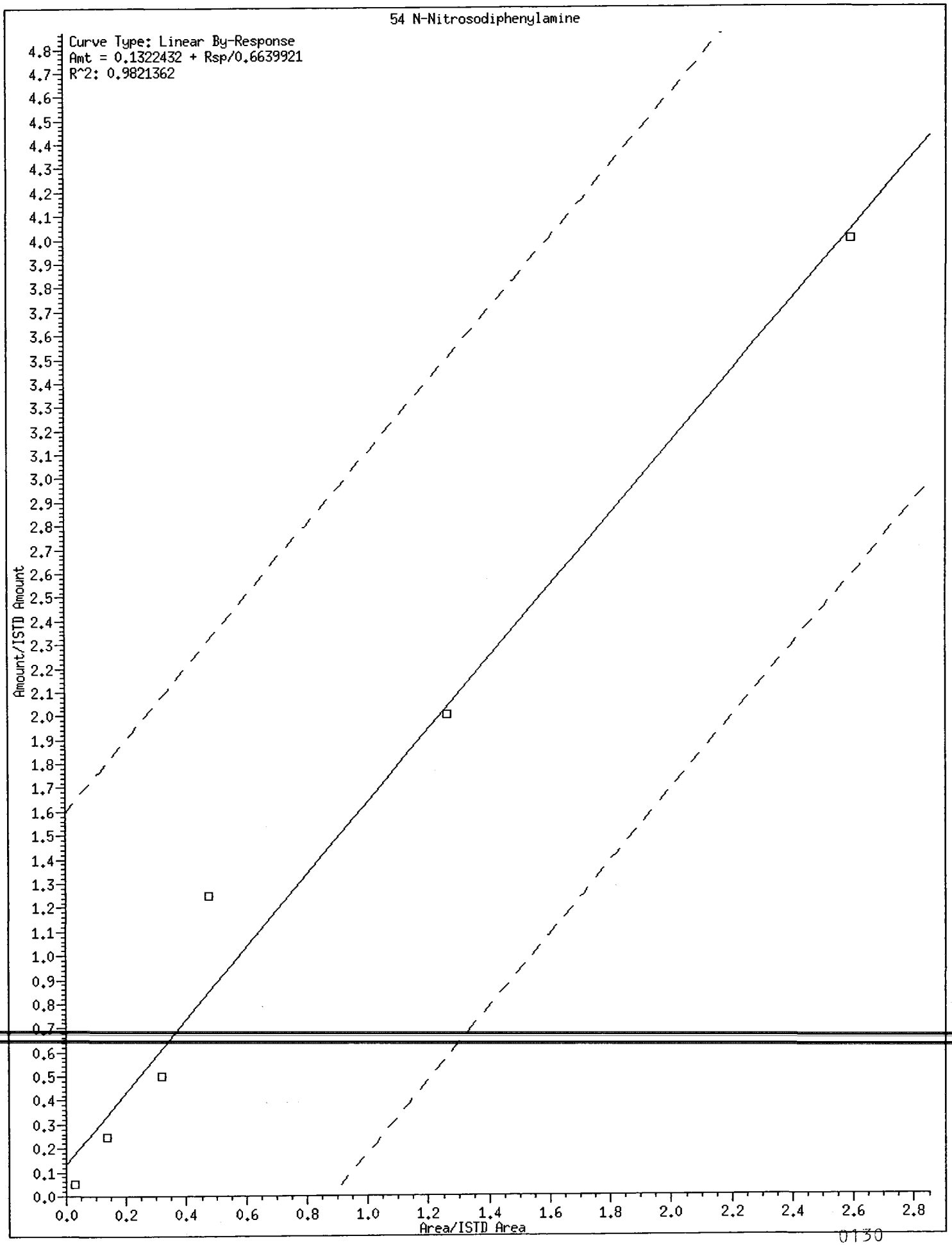
SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	2500	1340	53.59	10-114
$ 2 Phenol-d5	2500	1434	57.36	29-85
$ 5 2-Chlorophenol-d4	2500	1402	56.07	30-84
$ 10 1,2-Dichlorobenzen	1667	1420	85.17*	25-82
$ 18 Nitrobenzene-d5	1667	1426	85.53	29-87
$ 36 2-Fluorobiphenyl	1667	1407	84.42	32-88
$ 55 2,4,6-Tribromophen	2500	1466	58.65	25-103
$ 66 Terphenyl-d14	1667	1354	81.26	21-97

Data File: /chem3/nt4.i/20081027.b/ic102707.d
Date : 27-OCT-2008 15:07
Client ID:
Sample Info: ICV
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt4.i
Operator: LJR/VTS
Column diameter: 0.32

0129




54 N-Nitrosodiphenylamine
Curve Type: Linear By-Response
Amt = 0.1322432 + Rsp/0.6639921
R^2: 0.9821362
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
0.1
0.3
0.5
0.7
0.9
1.1
1.3
1.5
1.7
1.9
2.1
2.3
2.5
2.7
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
4.0
4.1
4.2
4.3
4.4
4.5
4.6
4.7
4.8

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS89 Project: EDDON BOATYARD

Instrument ID: NT4 Cont. Calib. Date: 10/29/08

Init. Calib. Date: 10/27/08 Cont. Calib. Time: 1003

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Naphthalene	1.038	0.968	0.100	6.7	
2-Methylnaphthalene	0.609	0.483	0.100	20.7	
Acenaphthylene	1.919	1.670	0.100	13.0	
Acenaphthene	1.268	1.096	0.100	13.6	20.0
Dibenzofuran	1.753	1.384	0.100	21.0	
Fluorene	1.293	1.146	0.100	11.4	
Phenanthrene	1.240	1.134	0.100	8.5	
Anthracene	1.208	1.107	0.100	8.4	
Fluoranthene	1.223	1.176	0.100	3.8	20.0
Pyrene	1.302	1.168	0.100	10.3	
Benzo(a)anthracene	1.323	1.268	0.100	4.2	
Chrysene	1.288	1.188	0.100	7.8	
Benzo(b)fluoranthene	1.254	1.088	0.100	13.2	
Benzo(k)fluoranthene	1.214	1.135	0.100	6.5	
Benzo(a)pyrene	1.077	0.984	0.100	8.6	20.0
Indeno(1,2,3-cd)pyrene	1.213	1.134	0.100	6.5	
Dibenzo(a,h)anthracene	1.238	1.140	0.100	7.9	
Benzo(g,h,i)perylene	1.298	1.179	0.100	9.2	
1-methylnaphthalene	0.515	0.479	0.100	7.0	
Terphenyl-d14	0.855	0.707	0.100	17.3	
2-Fluorobiphenyl	1.365	1.194	0.100	12.5	

<- Outside QC limits

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20081029.b/cc1029.d
Lab Smp Id: ABN 25
Inj Date : 29-OCT-2008 10:03
Operator : LJR/VTS Inst ID: nt4.i
Smp Info : ABN 25
Misc Info :
Comment : 1ul Injection
Method : /chem3/nt4.i/20081029.b/SW846.m
Meth Date : 29-Oct-2008 10:41 peter Quant Type: ISTD
Cal Date : 27-OCT-2008 14:33 Cal File: ic102706.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	7.50000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
* 27 Naphthalene-d8	136	7.749	7.749	(1.000)	254175	20.0000	
28 Naphthalene	128	7.778	7.778	(1.004)	307594	25.0000	23.31
32 2-Methylnaphthalene	141	8.894	8.894	(1.148)	153607	25.0000	19.85
105 1-methylnaphthalene	141	9.053	9.053	(1.168)	152343	25.0000	23.27
$ 36 2-Fluorobiphenyl	172	9.575	9.575	(0.909)	180232	25.0000	21.86
40 Acenaphthylene	152	10.275	10.275	(0.975)	252133	25.0000	21.75
* 42 Acenaphthene-d10	164	10.533	10.533	(1.000)	120792	20.0000	
44 Acenaphthene	153	10.574	10.574	(1.004)	165520	25.0000	21.62
46 Dibenzofuran	168	10.838	10.838	(1.029)	208960	25.0000	19.74
49 Fluorene	166	11.367	11.367	(1.079)	173066	25.0000	22.16
* 59 Phenanthrene-d10	188	12.789	12.789	(1.000)	171750	20.0000	
60 Phenanthrene	178	12.824	12.824	(1.003)	243362	25.0000	22.86
61 Anthracene	178	12.889	12.889	(1.008)	237718	25.0000	22.91
64 Fluoranthene	202	14.663	14.663	(1.147)	252546	25.0000	24.04
65 Pyrene	202	14.980	14.980	(0.886)	262572	25.0000	22.42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	66 Terphenyl-d14	244	15.409	15.409	(0.911)	158910	25.0000	20.67
	68 Benzo(a)anthracene	228	16.895	16.895	(0.999)	285115	25.0000	23.97
*	69 Chrysene-d12	240	16.913	16.913	(1.000)	179812	20.0000	
	71 Chrysene	228	16.948	16.948	(1.002)	267147	25.0000	23.07
	74 Benzo(b)fluoranthene	252	18.481	18.481	(0.974)	338801	25.0000	21.71
	75 Benzo(k)fluoranthene	252	18.510	18.510	(0.976)	353462	25.0000	23.38(M)
	76 Benzo(a)pyrene	252	18.886	18.886	(0.996)	306231	25.0000	22.83
*	77 Perylene-d12	264	18.969	18.969	(1.000)	249052	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	20.273	20.273	(1.069)	352979	25.0000	23.38
	79 Dibenzo(a,h)anthracene	278	20.326	20.326	(1.072)	354834	25.0000	23.02
	80 Benzo(g,h,i)perylene	276	20.543	20.543	(1.083)	367166	25.0000	22.71

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: cc1029.d
Lab Smp Id: ABN 25
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem3/nt4.i/20081029.b/SW846.m
Misc Info:

Calibration Date: 29-OCT-2008
Calibration Time: 10:03

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	254175	127088	508350	254175	0.00
42 Acenaphthene-d10	120792	60396	241584	120792	0.00
59 Phenanthrene-d10	171750	85875	343500	171750	0.00
69 Chrysene-d12	179812	89906	359624	179812	0.00
77 Perylene-d12	249052	124526	498104	249052	0.00

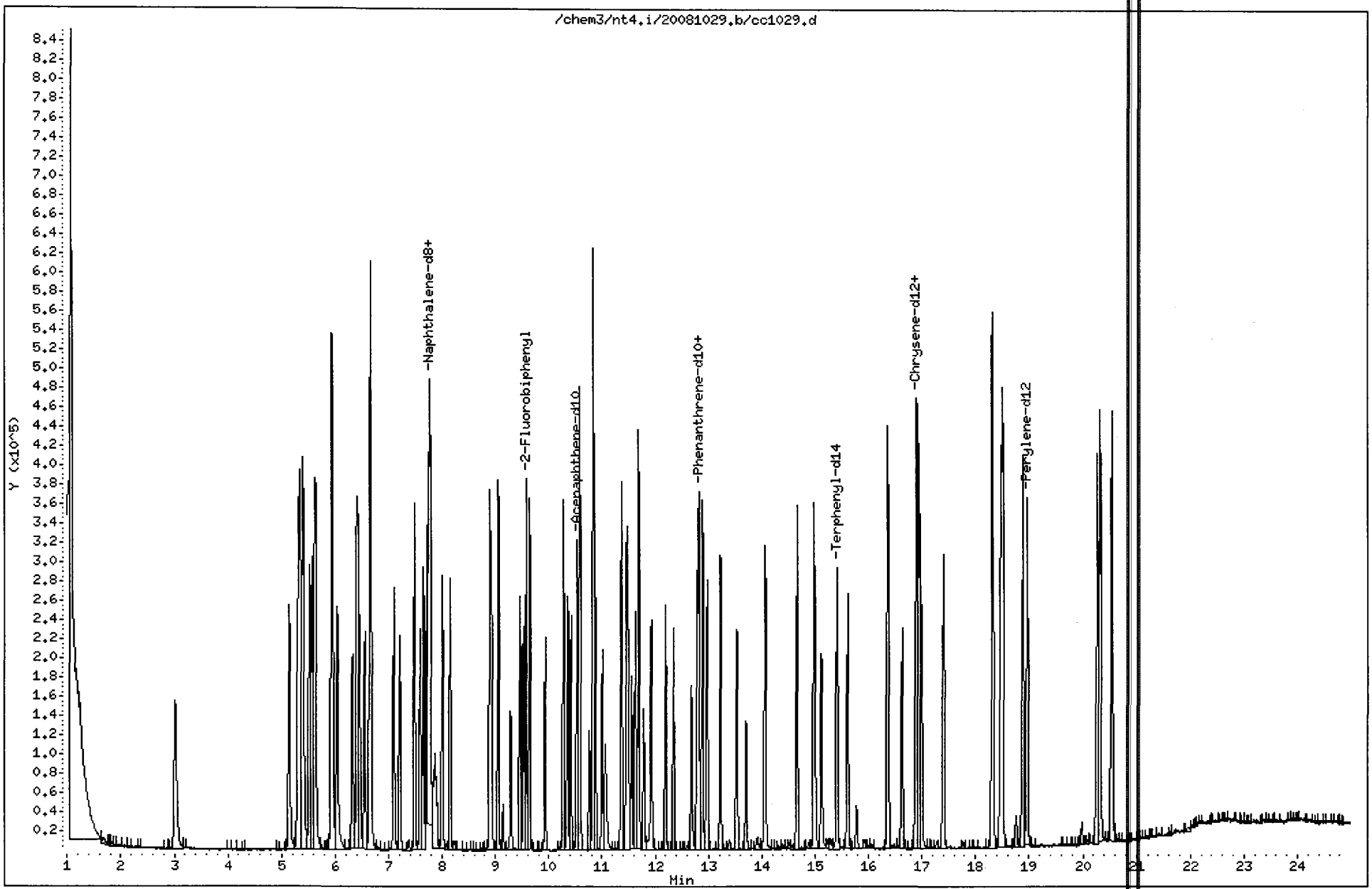
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	7.75	7.25	8.25	7.75	0.00
42 Acenaphthene-d10	10.53	10.03	11.03	10.53	0.00
59 Phenanthrene-d10	12.79	12.29	13.29	12.79	0.00
69 Chrysene-d12	16.91	16.41	17.41	16.91	0.00
77 Perylene-d12	18.97	18.47	19.47	18.97	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20081029.b/cc1029.d
Date : 29-OCT-2008 10:03
Client ID:
Sample Info: ABN 25
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt4.i
Operator: LJR/VTS
Column diameter: 0.32

0135



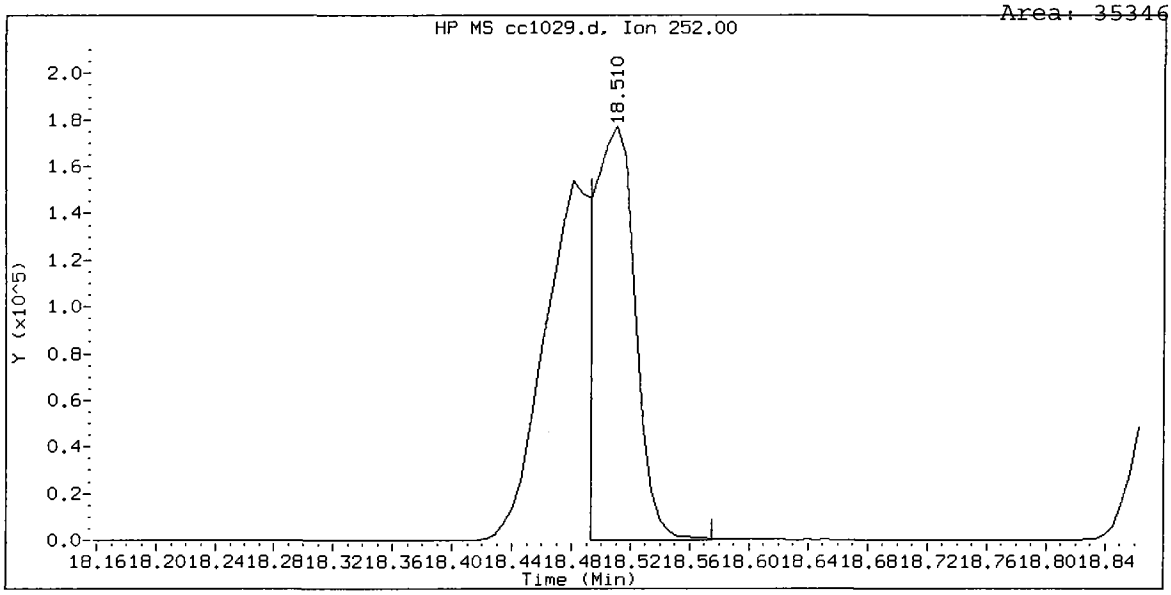
Analytical Resources, Inc.

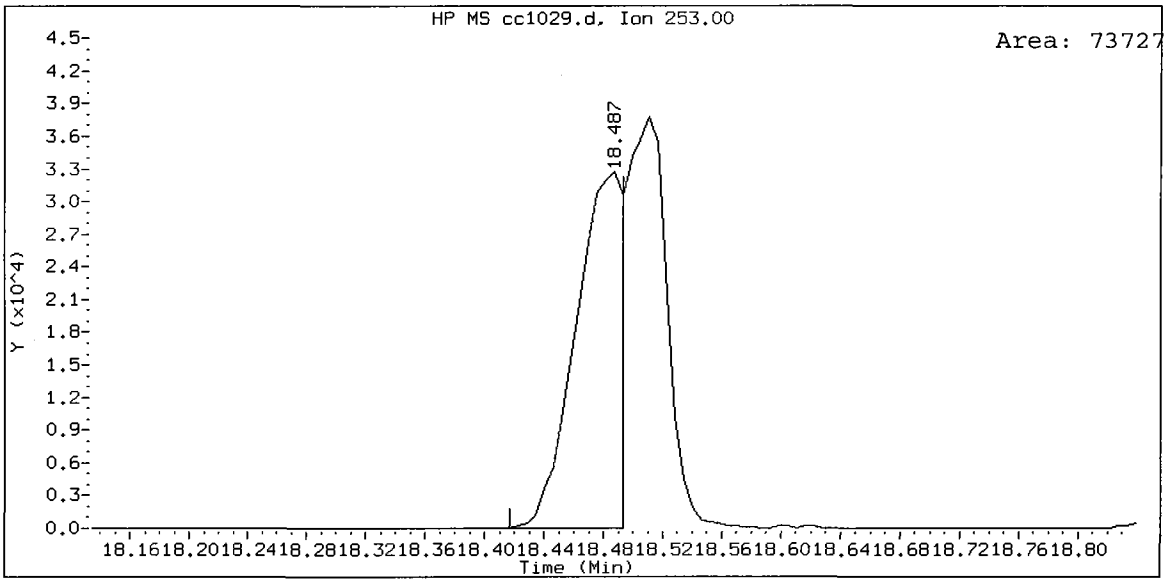
CONTINUING CALIBRATION COMPOUNDS

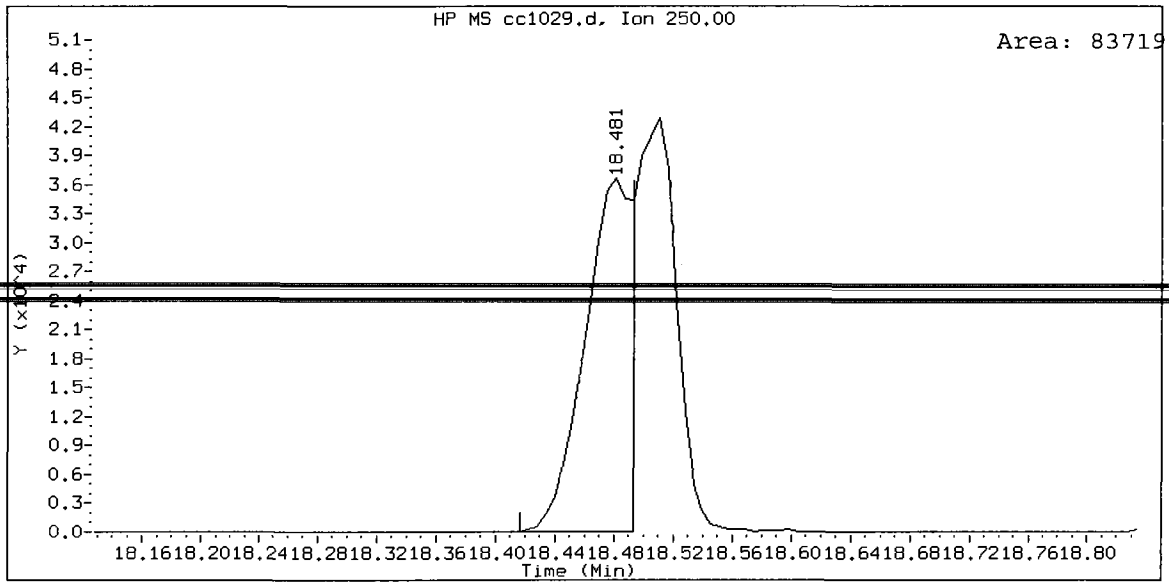
Instrument ID: nt4.i Injection Date: 29-OCT-2008 10:03
Lab File ID: cc1029.d Init. Cal. Date(s): 27-OCT-2008 27-OCT-2008
Analysis Type: SOIL Init. Cal. Times: 11:43 14:33
Lab Sample ID: ABN 25 Quant Type: ISTD
Method: /chem3/nt4.i/20081029.b/SW846.m

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
28 Naphthalene	1.03837	0.96813	0.96813	0.010	6.76403	100	Averaged
32 2-Methylnaphthalene	0.60876	0.48347	0.48347	0.010	20.58114	100	Averaged
105 1-methylnaphthalene	0.51510	0.47949	0.47949	0.010	6.91384	100	Averaged
$ 36 2-Fluorobiphenyl	1.36501	1.19367	1.19367	0.010	12.55263	100	Averaged
40 Acenaphthylene	1.91920	1.66987	1.66987	0.010	12.99137	100	Averaged
44 Acenaphthene	1.26766	1.09623	1.09623	0.010	13.52333	20.00000	Averaged
46 Dibenzofuran	1.75308	1.38393	1.38393	0.010	21.05725	100	Averaged
49 Fluorene	1.29339	1.14621	1.14621	0.010	11.37922	100	Averaged
60 Phenanthrene	1.23965	1.13356	1.13356	0.010	8.55765	100	Averaged
61 Anthracene	1.20809	1.10727	1.10727	0.010	8.34539	100	Averaged
64 Fluoranthene	1.22311	1.17634	1.17634	0.010	3.82330	20.00000	Averaged
65 Pyrene	1.30255	1.16821	1.16821	0.010	10.31401	100	Averaged
$ 66 Terphenyl-d14	0.85520	0.70701	0.70701	0.010	17.32898	100	Averaged
68 Benzo(a)anthracene	1.32275	1.26850	1.26850	0.010	4.10125	100	Averaged
71 Chrysene	1.28810	1.18856	1.18856	0.010	7.72753	100	Averaged
74 Benzo(b)fluoranthene	1.25337	1.08829	1.08829	0.010	13.17095	100	Averaged
75 Benzo(k)fluoranthene	1.21414	1.13539	1.13539	0.010	6.48636	100	Averaged
76 Benzo(a)pyrene	1.07706	0.98367	0.98367	0.010	8.67055	20.00000	Averaged
78 Indeno(1,2,3-cd)pyrene	1.21263	1.13383	1.13383	0.010	6.49822	100	Averaged
79 Dibenzo(a,h)anthracene	1.23776	1.13979	1.13979	0.010	7.91535	100	Averaged
80 Benzo(g,h,i)perylene	1.29830	1.17940	1.17940	0.010	9.15817	100	Averaged

ABN 25, /chem3/nt4.i/20081029.b/cc1029.d
Benzo(k)fluoranthene Amount: 23.38

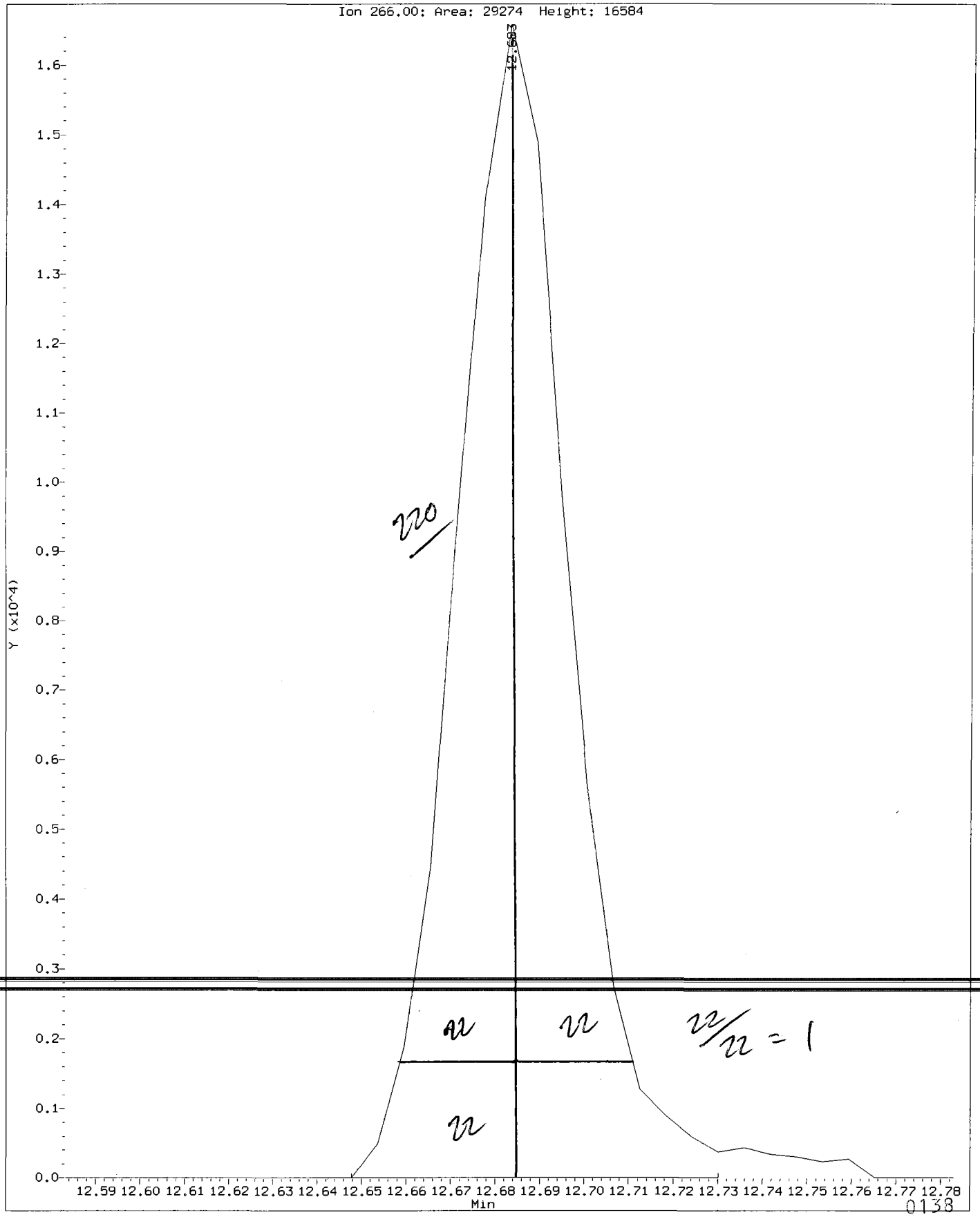






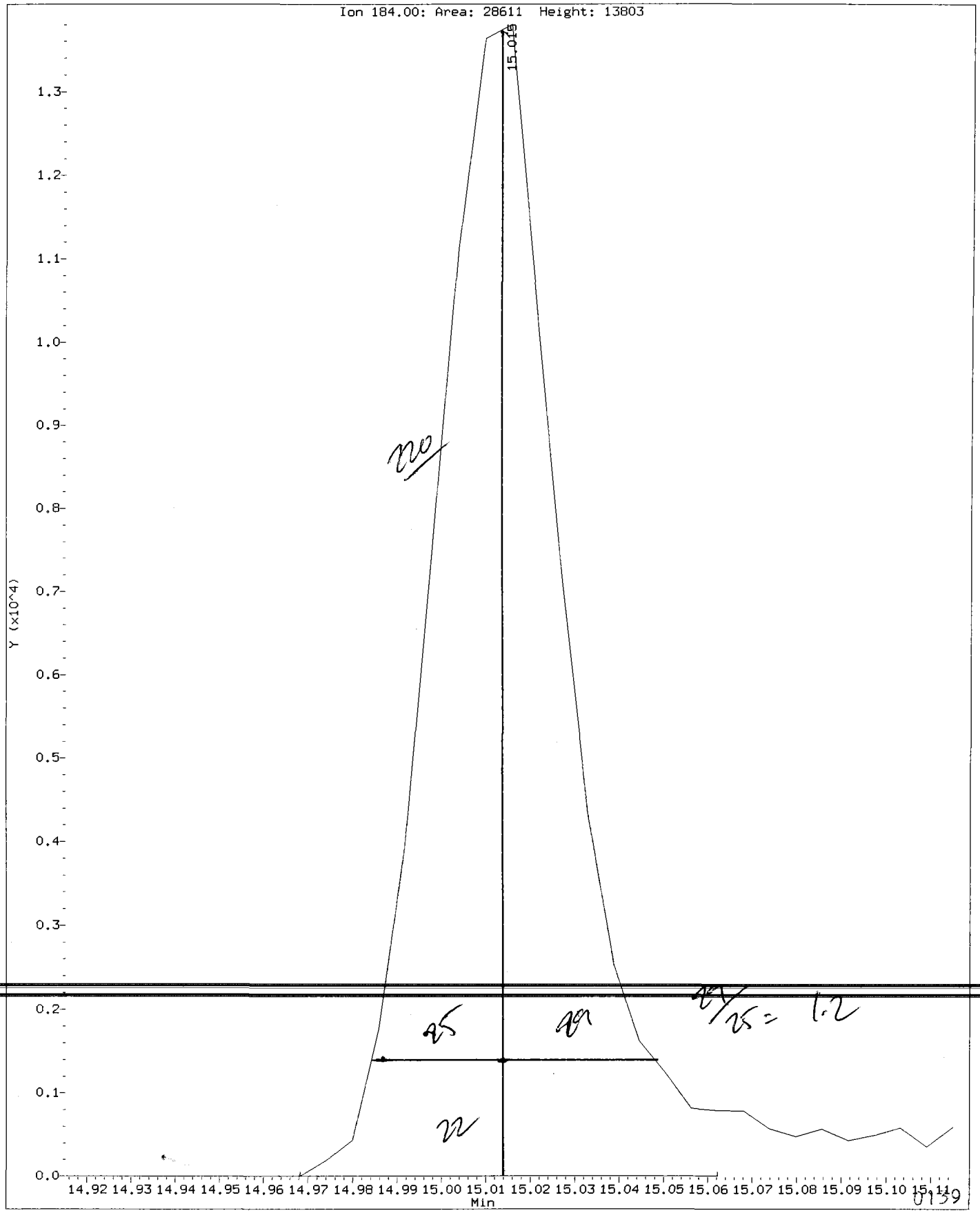
Data File: /chem3/nt4.i/20081029.b/ddt.b/cc1029.d
Injection Date: 29-OCT-2008 10:03
Instrument: nt4.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt4.i/20081029.b/ddt.b/cc1029.d
Injection Date: 29-OCT-2008 10:03
Instrument: nt4.i
Client Sample ID:

Compound: Benzidine
CAS Number:



PNA Analysis
QC Raw Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC.

PROJECT: EDDON BOATYARD, 040289-02

ARI JOB NO: NS89

prepared
by

Analytical Resources, Inc.

Data File: /chem3/nt4.i/20081027.b/tune.b/ic102701.d

Date : 27-OCT-2008 11:43

Client ID:

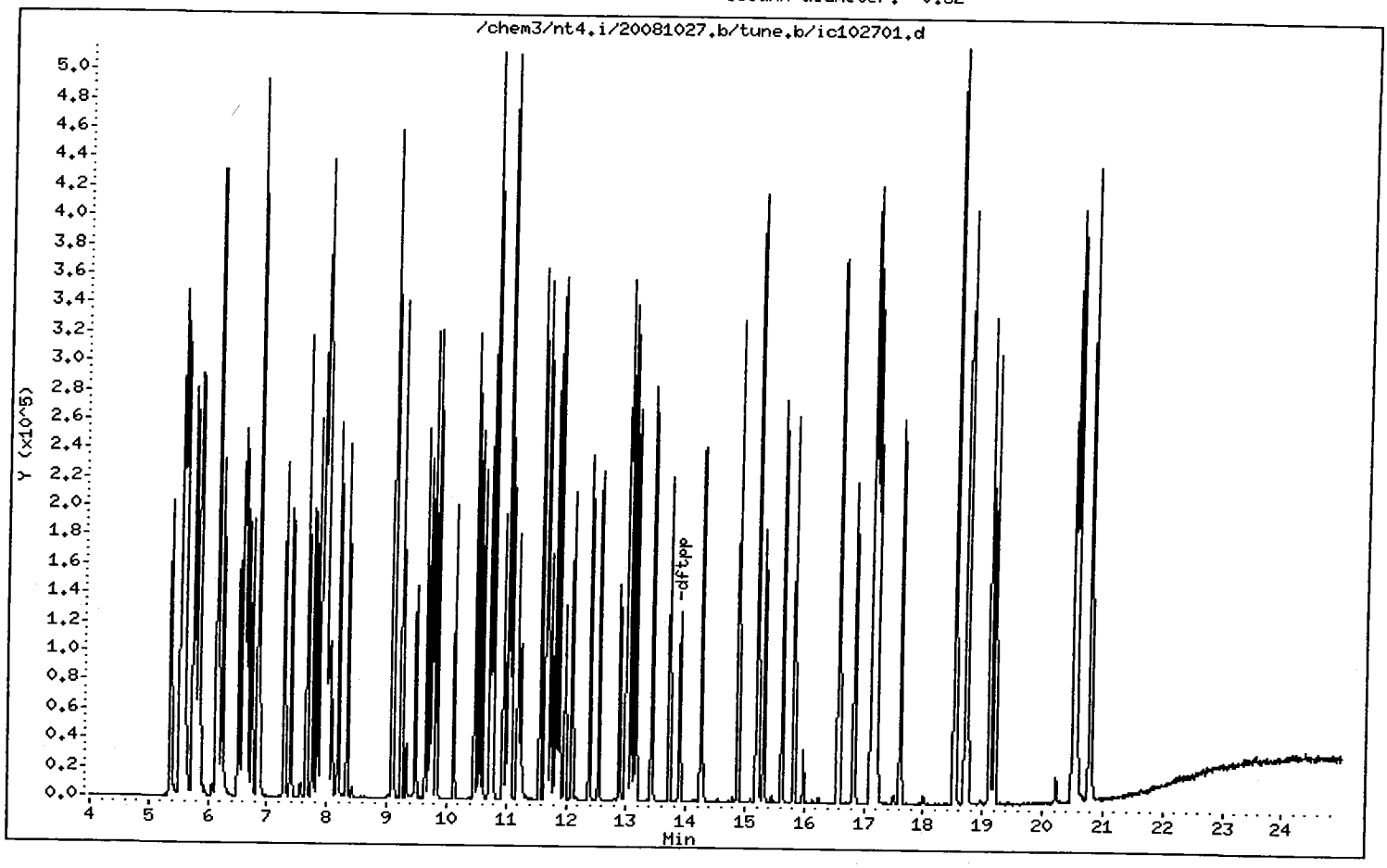
Instrument: nt4.i

Sample Info: ABN 25

Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32



Data File: /chem3/nt4.i/20081027.b/tune.b/ic102701.d

Date : 27-OCT-2008 11:43

Client ID:

Instrument: nt4.i

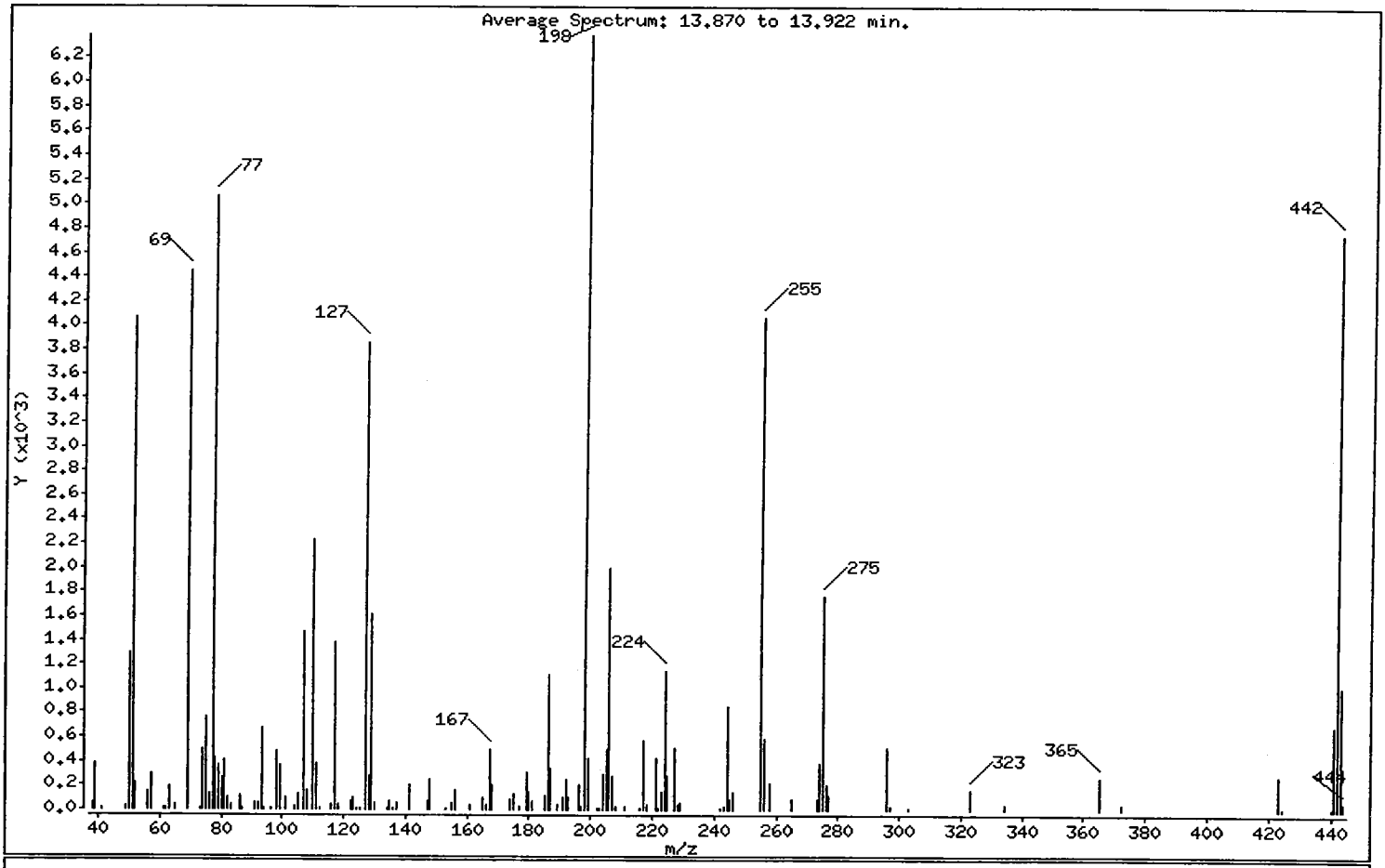
Sample Info: ABN 25

Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	63.65
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	69.76
70	Less than 2.00% of mass 69	0.00 (0.00)
127	25.00 - 75.00% of mass 198	60.47
197	Less than 1.00% of mass 198	0.55
199	5.00 - 9.00% of mass 198	6.61
275	10.00 - 30.00% of mass 198	27.57
365	Greater than 0.75% of mass 198	4.23
441	Present, but less than mass 443	10.84
442	40.00 - 110.00% of mass 198	74.37
443	15.00 - 24.00% of mass 442	15.85 (21.32)

Data File: /chem3/nt4.i/20081027.b/tune.b/ic102701.d

Date : 27-OCT-2008 11:43

Client ID:

Instrument: nt4.i

Sample Info: ABN 25

Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

Data File: ic102701.d

Spectrum: Average Spectrum: 13.870 to 13.922 min.

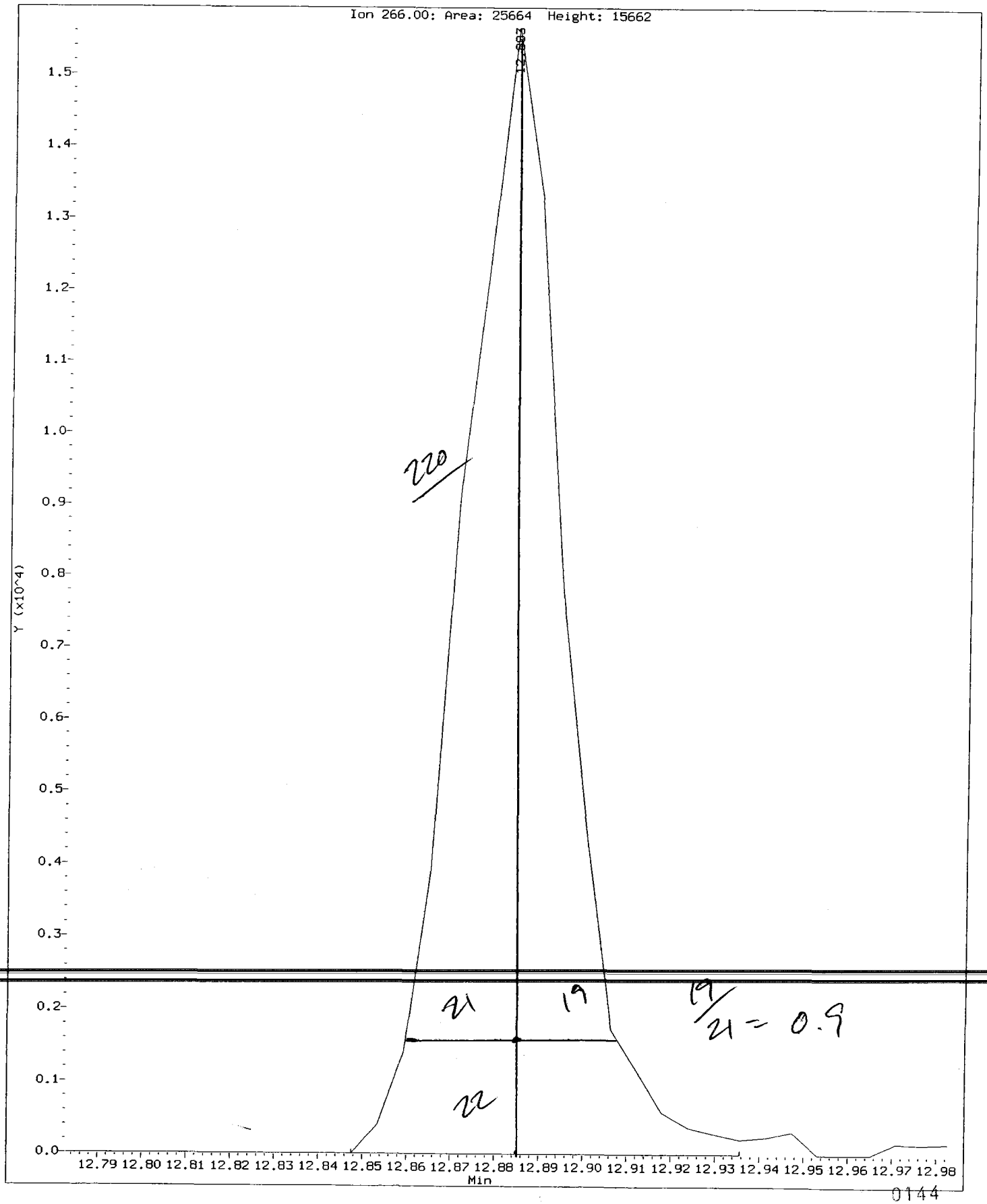
Location of Maximum: 198.00

Number of points: 132

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	60	101.00	102	174.00	86	228.00	45
39.00	381	104.00	35	175.00	134	229.00	56
41.00	16	105.00	130	177.00	35	242.00	16
49.00	23	107.00	1468	179.00	303	243.00	23
50.00	1290	108.00	167	180.00	154	244.00	846
51.00	4063	110.00	2229	181.00	67	245.00	92
52.00	213	111.00	380	185.00	116	246.00	148
56.00	151	112.00	16	186.00	1108	255.00	4058
57.00	287	116.00	51	187.00	339	256.00	590
61.00	17	117.00	1375	189.00	42	258.00	223
62.00	17	118.00	42	191.00	97	265.00	88
63.00	191	122.00	80	192.00	248	273.00	86
65.00	39	123.00	96	193.00	96	274.00	381
69.00	4453	124.00	18	196.00	208	275.00	1760
73.00	18	125.00	19	197.00	35	276.00	209
74.00	501	127.00	3860	198.00	6383	277.00	119
75.00	759	128.00	280	199.00	422	296.00	517
76.00	126	129.00	1611	202.00	16	297.00	30
77.00	5058	130.00	57	203.00	17	303.00	22
78.00	426	134.00	19	204.00	293	323.00	155
79.00	374	135.00	72	205.00	499	334.00	44
80.00	261	136.00	16	206.00	1993	365.00	270
81.00	412	137.00	53	207.00	278	372.00	37
82.00	104	141.00	210	208.00	36	423.00	280
83.00	39	147.00	71	211.00	33	424.00	15
86.00	120	148.00	255	216.00	16	440.00	17
87.00	16	153.00	20	217.00	569	441.00	692
91.00	57	155.00	61	218.00	39	442.00	4747
92.00	63	156.00	156	221.00	421	443.00	1012
93.00	678	161.00	37	222.00	16	444.00	57
94.00	22	165.00	101	223.00	146		
96.00	18	166.00	40	224.00	1146		
98.00	480	167.00	506	225.00	280		
99.00	366	168.00	207	227.00	516		

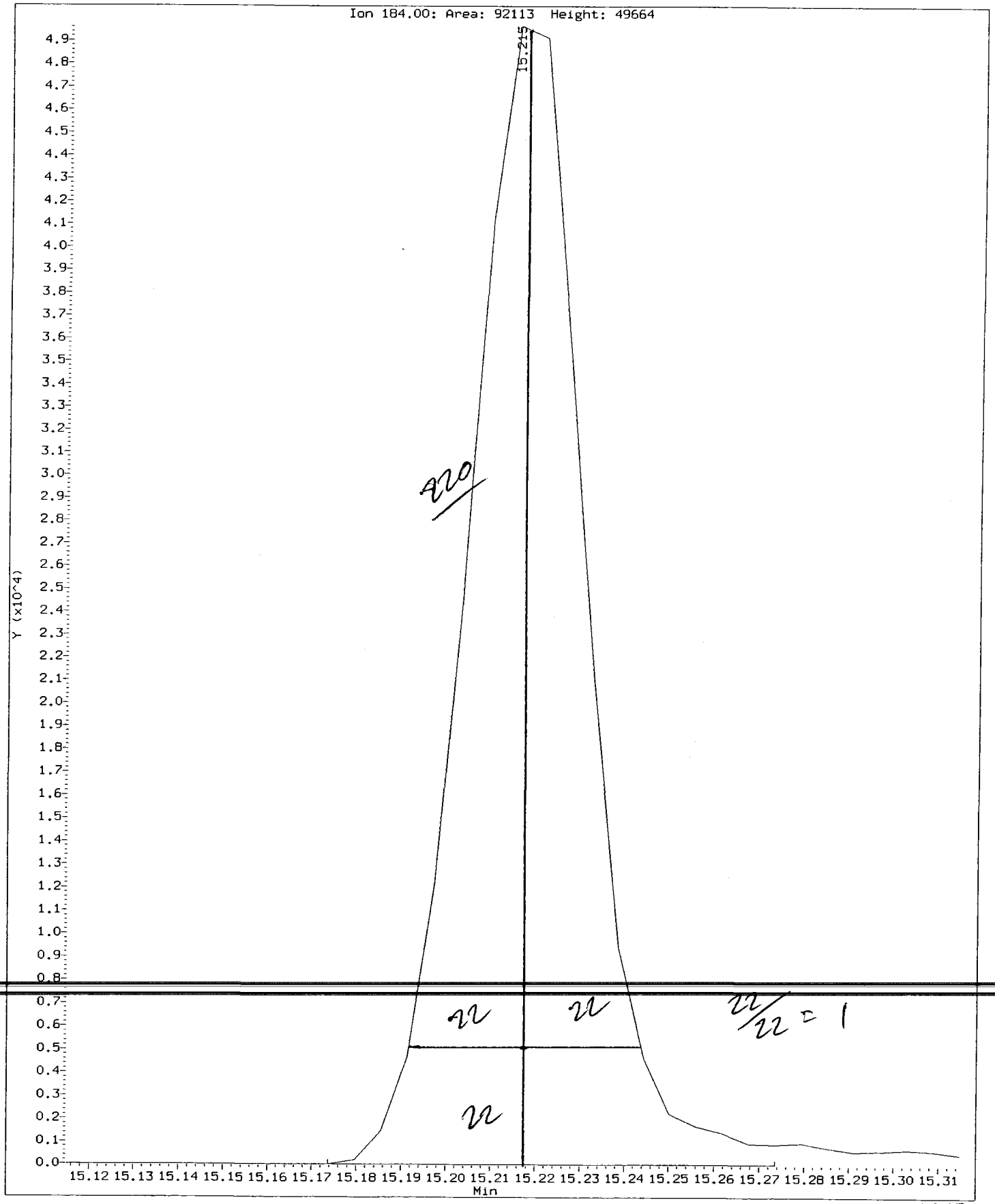
Data File: /chem3/nt4.i/20081027.b/ddt.b/ic102701.d
Injection Date: 27-OCT-2008 11:43
Instrument: nt4.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt4.i/20081027.b/ddt.b/ic102701.d
Injection Date: 27-OCT-2008 11:43
Instrument: nt4.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt4.i/20081027.b/ddt.b/ic102701.d
Method: /chem3/nt4.i/20081027.b/ddt.b/sw846ddt.m
Analysis Date: 27-OCT-2008 11:43

ARI ID: ABN 25
Misc:
Instrument: nt4.i

COMPOUND	RT	AREA
Pentachlorophenol	12.883	25664
Benzidine	15.215	92113
4,4'-DDE	----	----
4,4'-DDD	16.131	1141
4,4'-DDT	16.584	66049

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(\ 0 + 1141) * 100}{(\ 0 + 1141 + 66049)}$$

DDT Percent Breakdown = 1.7 %

Data File: /chem3/nt4.i/20081029.b/tune.b/cc1029.d

Date : 29-OCT-2008 10:03

Client ID:

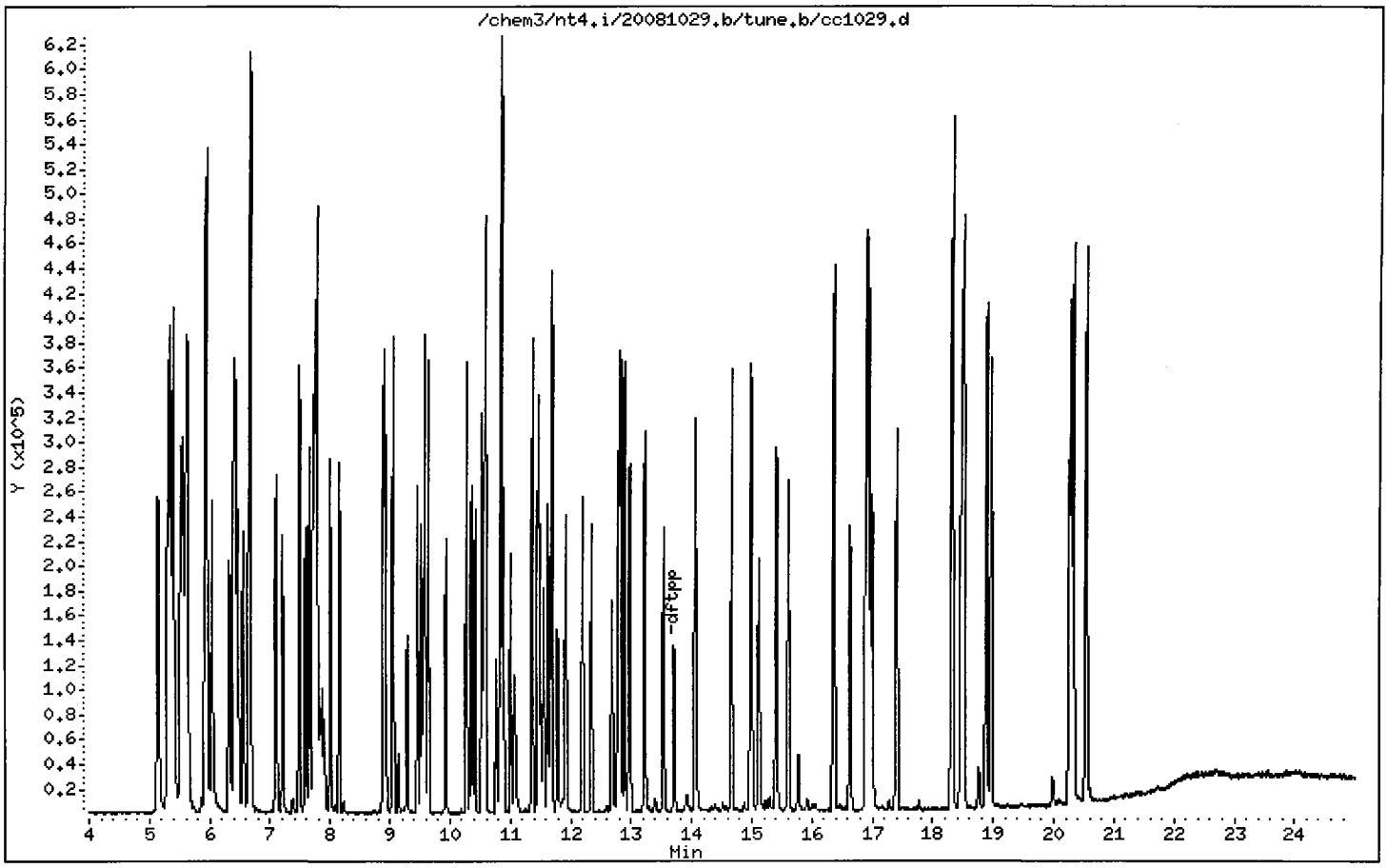
Instrument: nt4.i

Sample Info: ABN 25

Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32



Data File: /chem3/nt4.i/20081029.b/tune.b/cc1029.d

Date : 29-OCT-2008 10:03

Client ID:

Instrument: nt4.i

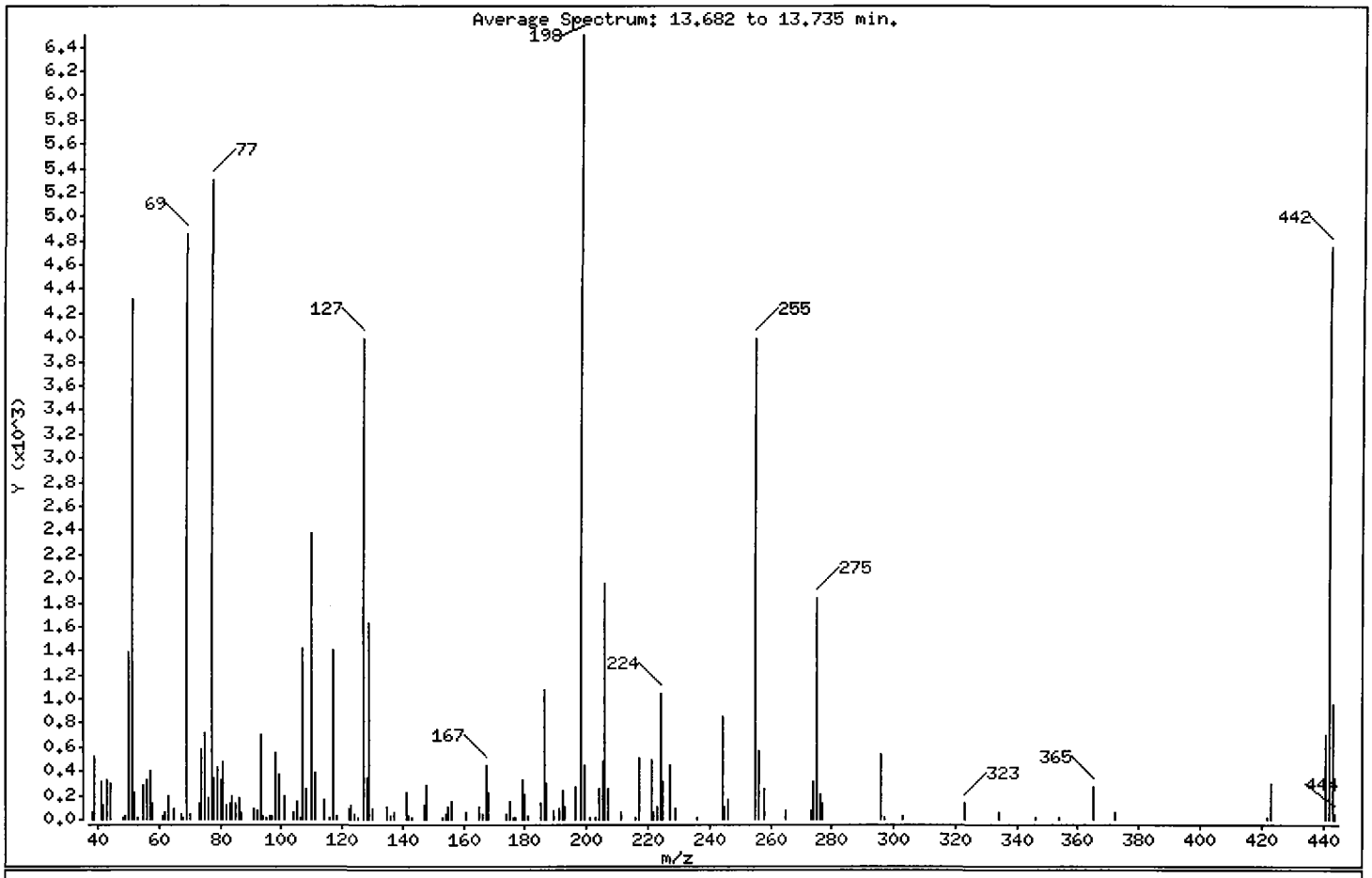
Sample Info: ABN 25

Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	66.46
68	Less than 2.00% of mass 69	0.23 (0.31)
69	Mass 69 relative abundance	74.67
70	Less than 2.00% of mass 69	0.74 (0.99)
127	25.00 - 75.00% of mass 198	61.38
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.93
275	10.00 - 30.00% of mass 198	28.19
365	Greater than 0.75% of mass 198	4.12
441	Present, but less than mass 443	10.89
442	40.00 - 110.00% of mass 198	73.06
443	15.00 - 24.00% of mass 442	14.66 (20.07)

Data File: /chem3/nt4.i/20081029.b/tune.b/cc1029.d

Date : 29-OCT-2008 10:03

Client ID:

Instrument: nt4.i

Sample Info: ABN 25

Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

Data File: cc1029.d
Spectrum: Average Spectrum: 13.682 to 13.735 min.
Location of Maximum: 198.00
Number of points: 146

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	58	86.00	172	147.00	118	221.00	500
39.00	516	87.00	55	148.00	280	222.00	59
41.00	315	91.00	95	153.00	17	223.00	104
42.00	122	92.00	78	154.00	52	224.00	1043
43.00	322	93.00	700	155.00	101	225.00	321
44.00	301	94.00	32	156.00	143	227.00	451
48.00	15	95.00	15	161.00	56	229.00	85
49.00	36	96.00	31	165.00	112	236.00	20
50.00	1382	97.00	23	166.00	40	244.00	852
51.00	4319	98.00	553	167.00	441	245.00	111
52.00	220	99.00	369	168.00	227	246.00	160
53.00	16	101.00	200	174.00	49	255.00	3990
55.00	282	104.00	56	175.00	155	256.00	574
56.00	330	105.00	151	176.00	15	258.00	248
57.00	399	106.00	16	177.00	17	265.00	68
58.00	136	107.00	1416	179.00	336	273.00	73
61.00	33	108.00	254	180.00	216	274.00	318
62.00	53	110.00	2371	181.00	33	275.00	1832
63.00	200	111.00	383	185.00	137	276.00	214
65.00	92	114.00	158	186.00	1082	277.00	130
67.00	50	116.00	15	187.00	299	296.00	545
68.00	15	117.00	1411	189.00	82	297.00	19
69.00	4853	118.00	36	191.00	90	303.00	31
70.00	48	122.00	95	192.00	234	323.00	131
73.00	130	123.00	122	193.00	112	334.00	66
74.00	588	124.00	52	196.00	266	346.00	17
75.00	723	125.00	16	198.00	6499	354.00	20
76.00	178	127.00	3989	199.00	450	365.00	268
77.00	5309	128.00	348	201.00	19	372.00	55
78.00	351	129.00	1624	203.00	17	422.00	18
79.00	439	130.00	92	204.00	252	423.00	295
80.00	336	135.00	101	205.00	472	441.00	708
81.00	482	136.00	33	206.00	1964	442.00	4748
82.00	122	137.00	63	207.00	252	443.00	953
83.00	141	141.00	220	211.00	60	444.00	51

Date : 29-OCT-2008 10:03

Client ID:

Instrument: nt4.i

Sample Info: ABN 25

Operator: LJR/VTS

Column phase: ZB-5

Column diameter: 0.32

Data File: cc1029.d
Spectrum: Average Spectrum: 13.682 to 13.735 min.
Location of Maximum: 198.00
Number of points: 146

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	193	142.00	32	216.00	18		
85.00	134	143.00	15	217.00	507		

Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt4.i/20081029.b/ddt.b/cc1029.d
Method: /chem3/nt4.i/20081029.b/ddt.b/sw846ddt.m
Analysis Date: 29-OCT-2008 10:03

ARI ID: ABN 25
Misc:
Instrument: nt4.i

COMPOUND	RT	AREA
Pentachlorophenol	12.683	29274
Benzidine	15.015	28611
4,4'-DDE	----	----
4,4'-DDD	15.926	3527
4,4'-DDT	16.366	67672

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(\ 0 + 3527) * 100}{(\ 0 + 3527 + 67672)}$$

DDT Percent Breakdown = 5.0 %

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS
Page 1 of 1

Sample ID: MB-101408
METHOD BLANK

Lab Sample ID: MB-101408
LIMS ID: 08-26492
Matrix: Soil
Data Release Authorized:
Reported: 10/30/08

QC Report No: NS89-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 10/14/08
Date Analyzed: 10/29/08 10:47
Instrument/Analyst: NT4/PK
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 7.50 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	67	< 67 U
91-57-6	2-Methylnaphthalene	67	< 67 U
90-12-0	1-Methylnaphthalene	67	< 67 U
208-96-8	Acenaphthylene	67	< 67 U
83-32-9	Acenaphthene	67	< 67 U
86-73-7	Fluorene	67	< 67 U
85-01-8	Phenanthrene	67	< 67 U
120-12-7	Anthracene	67	< 67 U
206-44-0	Fluoranthene	67	< 67 U
129-00-0	Pyrene	67	< 67 U
56-55-3	Benzo(a)anthracene	67	< 67 U
218-01-9	Chrysene	67	< 67 U
205-99-2	Benzo(b)fluoranthene	67	< 67 U
207-08-9	Benzo(k)fluoranthene	67	< 67 U
50-32-8	Benzo(a)pyrene	67	< 67 U
193-39-5	Indeno(1,2,3-cd)pyrene	67	< 67 U
53-70-3	Dibenz(a,h)anthracene	67	< 67 U
191-24-2	Benzo(g,h,i)perylene	67	< 67 U
132-64-9	Dibenzofuran	67	< 67 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	83.6%
2-Fluorobiphenyl	76.0%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20081029.b/102901.d
Lab Smp Id: NS36MBS1 Client Smp ID: NS36MBS1
Inj Date : 29-OCT-2008 10:47
Operator : LJR/VTS Inst ID: nt4.i
Smp Info : NS36MBS1
Misc Info : 08-26188
Comment : 1ul Injection
Method : /chem3/nt4.i/20081029.b/SW846.m
Meth Date : 29-Oct-2008 16:32 peter Quant Type: ISTD
Cal Date : 27-OCT-2008 14:33 Cal File: ic102706.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	7.50000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
* 27 Naphthalene-d8	136	7.743	7.749	(1.000)	192018	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	141	Compound Not Detected.					
105 1-methylnaphthalene	141	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	9.576	9.575	(0.910)	122556	19.0014	1267
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	10.527	10.533	(1.000)	94502	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	12.783	12.789	(1.000)	135930	20.0000	
60 Phenanthrene	178	Compound Not Detected.					
61 Anthracene	178	Compound Not Detected.					
64 Fluoranthene	202	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	65 Pyrene	202	Compound Not Detected.					
$	66 Terphenyl-d14	244	15.409	15.409	(0.911)	119927	20.9228	1395
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	16.907	16.913	(1.000)	134047	20.0000	
	71 Chrysene	228	Compound Not Detected.					
	74 Benzo(b)fluoranthene	252	Compound Not Detected.					
	75 Benzo(k)fluoranthene	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	18.963	18.969	(1.000)	191278	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 102901.d
Lab Smp Id: NS36MBS1
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem3/nt4.i/20081029.b/SW846.m
Misc Info: 08-26188

Calibration Date: 29-OCT-2008
Calibration Time: 10:03
Client Smp ID: NS36MBS1
Level: LOW
Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	254175	127088	508350	192018	-24.45
42 Acenaphthene-d10	120792	60396	241584	94502	-21.76
59 Phenanthrene-d10	171750	85875	343500	135930	-20.86
69 Chrysene-d12	179812	89906	359624	134047	-25.45
77 Perylene-d12	249052	124526	498104	191278	-23.20

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	7.75	7.25	8.25	7.74	-0.08
42 Acenaphthene-d10	10.53	10.03	11.03	10.53	-0.06
59 Phenanthrene-d10	12.79	12.29	13.29	12.78	-0.05
69 Chrysene-d12	16.91	16.41	17.41	16.91	-0.03
77 Perylene-d12	18.97	18.47	19.47	18.96	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: HART CROWSER
Sample Matrix: SOLID
Lab Smp Id: NS36MBS1
Level: LOW
Data Type: MS DATA
SpikeList File: pnamss.spk
Sublist File: pna.sub
Method File: /chem3/nt4.i/20081029.b/SW846.m
Misc Info: 08-26188

Client SDG: NS36
Fraction: SV
Client Smp ID: NS36MBS1
Operator: LJR/VTS
SampleType: BLANK
Quant Type: ISTD

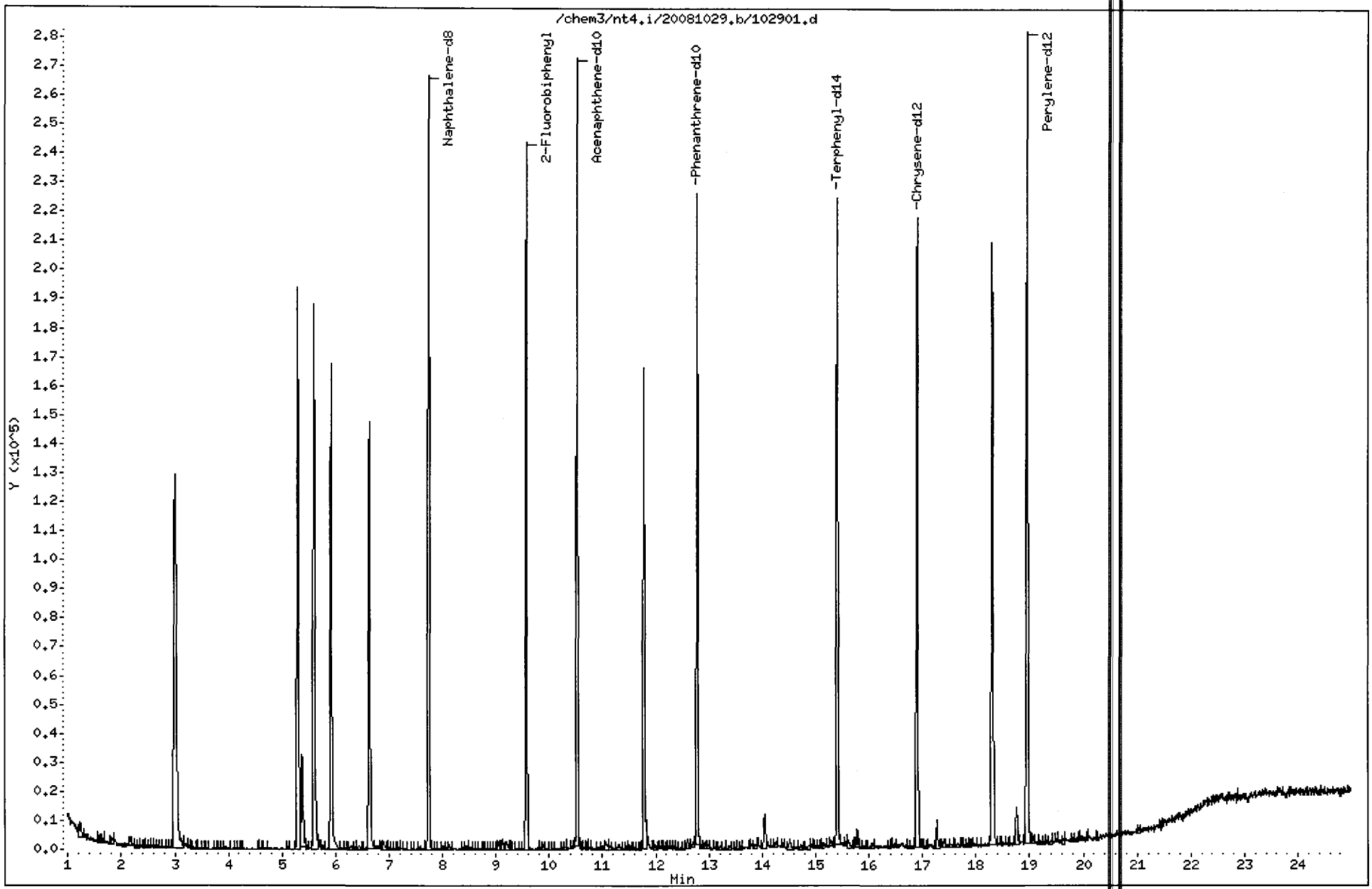
SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	1667	1267	76.01	30-160
$ 66 Terphenyl-d14	1667	1395	83.69	30-123

0157

Data File: /chem3/nt4.i/20081029.b/102901.d
Date : 29-OCT-2008 10:47
Client ID: NS36MBS1
Sample Info: NS36MBS1
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt4.i

Operator: LJR/VTS
Column diameter: 0.32



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20081029.b/102902.d
Lab Smp Id: NS36LCSS1 Client Smp ID: NS36LCSS1
Inj Date : 29-OCT-2008 11:21
Operator : LJR/VTS Inst ID: nt4.i
Smp Info : NS36LCSS1
Misc Info : 08-26188
Comment : 1ul Injection
Method : /chem3/nt4.i/20081029.b/SW846.m
Meth Date : 30-Oct-2008 10:20 peter Quant Type: ISTD
Cal Date : 27-OCT-2008 14:33 Cal File: ic102706.d
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	7.50000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
* 27 Naphthalene-d8	136	7.745	7.749	(1.000)	205102	20.0000	
28 Naphthalene	128	7.769	7.778	(1.003)	189215	17.7690	1185
32 2-Methylnaphthalene	141	8.897	8.894	(1.149)	127123	20.3629	1358
105 1-methylnaphthalene	141	9.050	9.053	(1.168)	94180	17.8289	1189
$ 36 2-Fluorobiphenyl	172	9.572	9.575	(0.909)	119274	17.7517	1183
40 Acenaphthylene	152	10.271	10.275	(0.975)	175492	18.5768	1238
* 42 Acenaphthene-d10	164	10.530	10.533	(1.000)	98446	20.0000	
44 Acenaphthene	153	10.571	10.574	(1.004)	106481	17.0648	1138
46 Dibenzofuran	168	10.835	10.838	(1.029)	142735	16.5409	1103
49 Fluorene	166	11.364	11.367	(1.079)	114755	18.0250	1202
* 59 Phenanthrene-d10	188	12.786	12.789	(1.000)	141589	20.0000	
60 Phenanthrene	178	12.815	12.824	(1.002)	169216	19.2816	1285
61 Anthracene	178	12.886	12.889	(1.008)	173282	20.2606	1351
64 Fluoranthene	202	14.660	14.663	(1.147)	178414	20.6047	1374
65 Pyrene	202	14.983	14.980	(0.886)	184798	19.3061	1287

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	15.412	15.409	(0.911)	115847	18.4335	1229
	68 Benzo(a)anthracene	228	16.892	16.895	(0.999)	200429	20.6193	1375
*	69 Chrysene-d12	240	16.910	16.913	(1.000)	146973	20.0000	
	71 Chrysene	228	16.945	16.948	(1.002)	183746	19.4116	1294
	74 Benzo(b)fluoranthene	252	18.472	18.481	(0.974)	252044	19.9596	1331
	75 Benzo(k)fluoranthene	252	18.502	18.510	(0.976)	239894	19.6113	1307
	76 Benzo(a)pyrene	252	18.877	18.886	(0.996)	222014	20.4596	1364
*	77 Perylene-d12	264	18.960	18.969	(1.000)	201500	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	20.264	20.273	(1.069)	242767	19.8708	1325
	79 Dibenzo(a,h)anthracene	278	20.317	20.326	(1.072)	253926	20.3622	1357
	80 Benzo(g,h,i)perylene	276	20.540	20.543	(1.083)	253888	19.4098	1294

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 102902.d
Lab Smp Id: NS36LCSS1
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem3/nt4.i/20081029.b/SW846.m
Misc Info: 08-26188

Calibration Date: 29-OCT-2008
Calibration Time: 10:03
Client Smp ID: NS36LCSS1
Level: LOW
Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	254175	127088	508350	205102	-19.31
42 Acenaphthene-d10	120792	60396	241584	98446	-18.50
59 Phenanthrene-d10	171750	85875	343500	141589	-17.56
69 Chrysene-d12	179812	89906	359624	146973	-18.26
77 Perylene-d12	249052	124526	498104	201500	-19.09

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	7.75	7.25	8.25	7.75	-0.04
42 Acenaphthene-d10	10.53	10.03	11.03	10.53	-0.03
59 Phenanthrene-d10	12.79	12.29	13.29	12.79	-0.02
69 Chrysene-d12	16.91	16.41	17.41	16.91	-0.02
77 Perylene-d12	18.97	18.47	19.47	18.96	-0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: HART CROWSER
Sample Matrix: SOLID
Lab Smp Id: NS36LCSS1
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pna.sub
Method File: /chem3/nt4.i/20081029.b/SW846.m
Misc Info: 08-26188

Client SDG: NS36
Fraction: SV
Client Smp ID: NS36LCSS1
Operator: LJR/VTS
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
28 Naphthalene	1667	1185	71.08	50-103
32 2-Methylnaphthalen	1667	1358	81.45	30-160
40 Acenaphthylene	1667	1238	74.31	30-160
44 Acenaphthene	1667	1138	68.26	47-110
46 Dibenzofuran	1667	1103	66.16	30-160
49 Fluorene	1667	1202	72.10	30-160
60 Phenanthrene	1667	1285	77.13	30-160
61 Anthracene	1667	1351	81.04	30-160
64 Fluoranthene	1667	1374	82.42	57-121
65 Pyrene	1667	1287	77.22	30-160
68 Benzo(a)anthracene	1667	1375	82.48	55-103
71 Chrysene	1667	1294	77.65	30-160
74 Benzo(b)fluoranthe	1667	1331	79.84	30-160
75 Benzo(k)fluoranthe	1667	1307	78.45	30-160
76 Benzo(a)pyrene	1667	1364	81.84	30-160
78 Indeno(1,2,3-cd)py	1667	1325	79.48	30-160
79 Dibenzo(a,h)anthra	1667	1357	81.45	30-160
80 Benzo(g,h,i)peryle	1667	1294	77.64	30-160

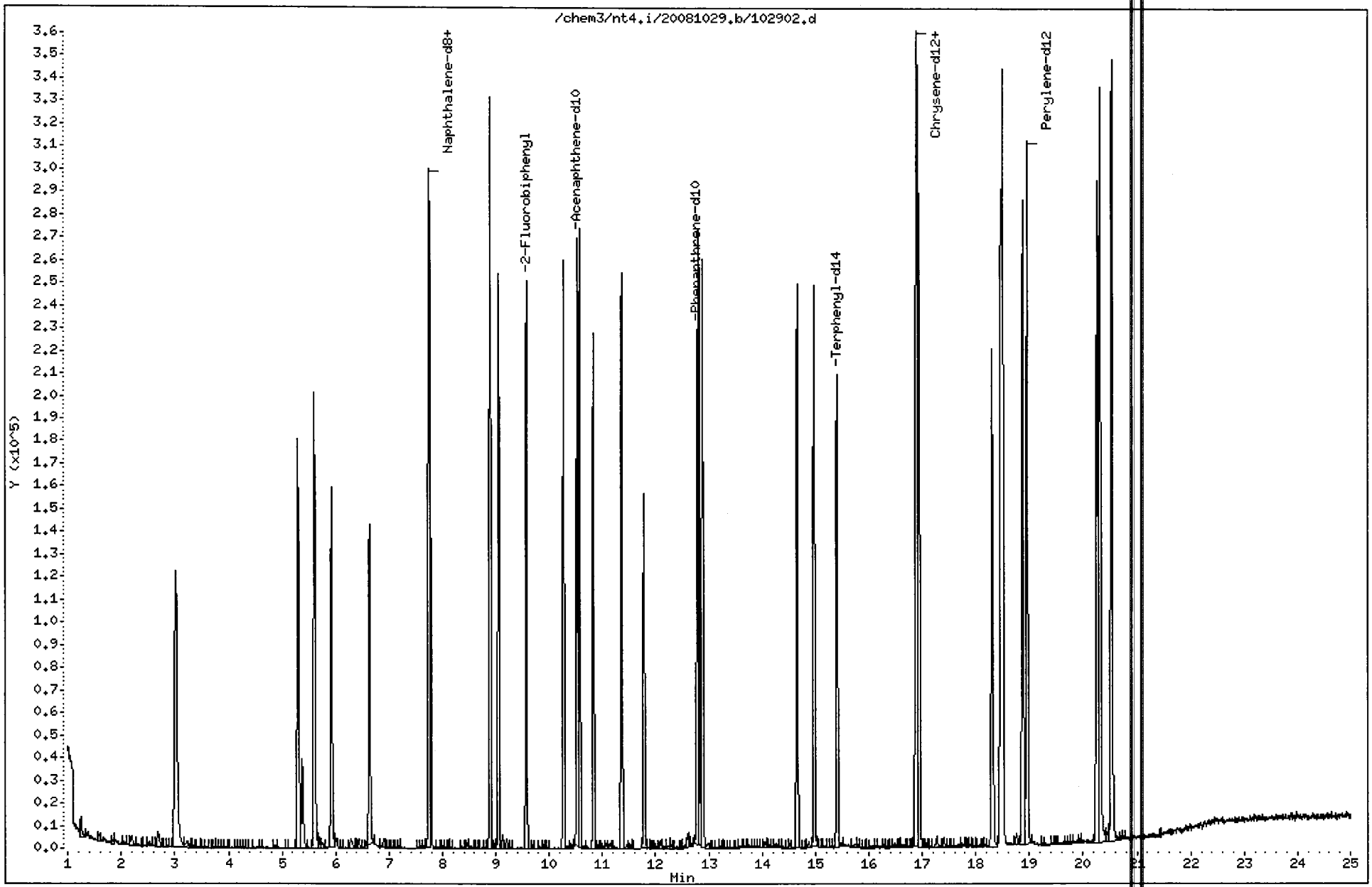
SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	1667	1183	71.01	30-160
$ 66 Terphenyl-d14	1667	1229	73.73	30-123

Data File: /chem3/nt4.i/20081029.b/102902.d
Date : 29-OCT-2008 11:21
Client ID: NS36LCSS1
Sample Info: NS36LCSS1
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt4.i

Operator: LJR/VTS
Column diameter: 0.32

0162



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20081029.b/102903.d
Lab Smp Id: NS36LCSDS1 Client Smp ID: NS36LCSDS1
Inj Date : 29-OCT-2008 11:55
Operator : LJR/VTS Inst ID: nt4.i
Smp Info : NS36LCSDS1
Misc Info : 08-26188
Comment : 1ul Injection
Method : /chem3/nt4.i/20081029.b/SW846.m
Meth Date : 30-Oct-2008 10:20 peter Quant Type: ISTD
Cal Date : 27-OCT-2008 14:33 Cal File: ic102706.d
Als bottle: 4 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pna.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	7.50000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	27 Naphthalene-d8	136	7.744	7.749	(1.000)	221835	20.0000	
	28 Naphthalene	128	7.773	7.778	(1.004)	204988	17.7982	1187
	32 2-Methylnaphthalene	141	8.895	8.894	(1.149)	140807	20.8535	1390
	105 1-methylnaphthalene	141	9.054	9.053	(1.169)	103350	18.0891	1206
$	36 2-Fluorobiphenyl	172	9.570	9.575	(0.909)	127811	16.9102	1127
	40 Acenaphthylene	152	10.275	10.275	(0.976)	196487	18.4898	1233
*	42 Acenaphthene-d10	164	10.528	10.533	(1.000)	110742	20.0000	
	44 Acenaphthene	153	10.575	10.574	(1.004)	120203	17.1250	1142
	46 Dibenzofuran	168	10.833	10.838	(1.029)	160180	16.5015	1100
	49 Fluorene	166	11.362	11.367	(1.079)	131005	18.2927	1220
*	59 Phenanthrene-d10	188	12.784	12.789	(1.000)	166003	20.0000	
	60 Phenanthrene	178	12.819	12.824	(1.003)	193073	18.7645	1251
	61 Anthracene	178	12.884	12.889	(1.008)	197194	19.6656	1311
	64 Fluoranthene	202	14.658	14.663	(1.147)	206100	20.3015	1353
	65 Pyrene	202	14.981	14.980	(0.886)	213395	18.6299	1242

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	15.410	15.409	(0.911)	132076	17.5621	1171
	68 Benzo(a)anthracene	228	16.890	16.895	(0.999)	226471	19.4695	1298
*	69 Chrysene-d12	240	16.913	16.913	(1.000)	175877	20.0000	
	71 Chrysene	228	16.949	16.948	(1.002)	223755	19.7535	1317
	74 Benzo(b)fluoranthene	252	18.494	18.481	(0.975)	307378	20.6080	1374(M)
	75 Benzo(k)fluoranthene	252	18.505	18.510	(0.976)	255743	17.7002	1180
	76 Benzo(a)pyrene	252	18.881	18.886	(0.996)	249535	19.4686	1298
*	77 Perylene-d12	264	18.964	18.969	(1.000)	238006	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	20.268	20.273	(1.069)	264799	18.3497	1223
	79 Dibenzo(a,h)anthracene	278	20.321	20.326	(1.072)	281351	19.1008	1273
	80 Benzo(g,h,i)perylene	276	20.538	20.543	(1.083)	284517	18.4151	1228

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 102903.d
Lab Smp Id: NS36LCSDS1
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem3/nt4.i/20081029.b/SW846.m
Misc Info: 08-26188

Calibration Date: 29-OCT-2008
Calibration Time: 10:03
Client Smp ID: NS36LCSDS1
Level: LOW
Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	254175	127088	508350	221835	-12.72
42 Acenaphthene-d10	120792	60396	241584	110742	-8.32
59 Phenanthrene-d10	171750	85875	343500	166003	-3.35
69 Chrysene-d12	179812	89906	359624	175877	-2.19
77 Perylene-d12	249052	124526	498104	238006	-4.44

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	7.75	7.25	8.25	7.74	-0.06
42 Acenaphthene-d10	10.53	10.03	11.03	10.53	-0.05
59 Phenanthrene-d10	12.79	12.29	13.29	12.78	-0.04
69 Chrysene-d12	16.91	16.41	17.41	16.91	0.01
77 Perylene-d12	18.97	18.47	19.47	18.96	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: HART CROWSER
Sample Matrix: SOLID
Lab Smp Id: NS36LCSDS1
Level: LOW
Data Type: MS DATA
SpikeList File: pnalcss.spk
Sublist File: pna.sub
Method File: /chem3/nt4.i/20081029.b/SW846.m
Misc Info: 08-26188

Client SDG: NS36
Fraction: SV
Client Smp ID: NS36LCSDS1
Operator: LJR/VTS
SampleType: LCSD
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
28 Naphthalene	1667	1187	71.19	50-103
32 2-Methylnaphthalen	1667	1390	83.41	30-160
40 Acenaphthylene	1667	1233	73.96	30-160
44 Acenaphthene	1667	1142	68.50	47-110
46 Dibenzofuran	1667	1100	66.01	30-160
49 Fluorene	1667	1220	73.17	30-160
60 Phenanthrene	1667	1251	75.06	30-160
61 Anthracene	1667	1311	78.66	30-160
64 Fluoranthene	1667	1353	81.21	57-121
65 Pyrene	1667	1242	74.52	30-160
68 Benzo(a)anthracene	1667	1298	77.88	55-103
71 Chrysene	1667	1317	79.01	30-160
74 Benzo(b)fluoranthe	1667	1374	82.43	30-160
75 Benzo(k)fluoranthe	1667	1180	70.80	30-160
76 Benzo(a)pyrene	1667	1298	77.87	30-160
78 Indeno(1,2,3-cd)py	1667	1223	73.40	30-160
79 Dibenzo(a,h)anthra	1667	1273	76.40	30-160
80 Benzo(g,h,i)peryle	1667	1228	73.66	30-160

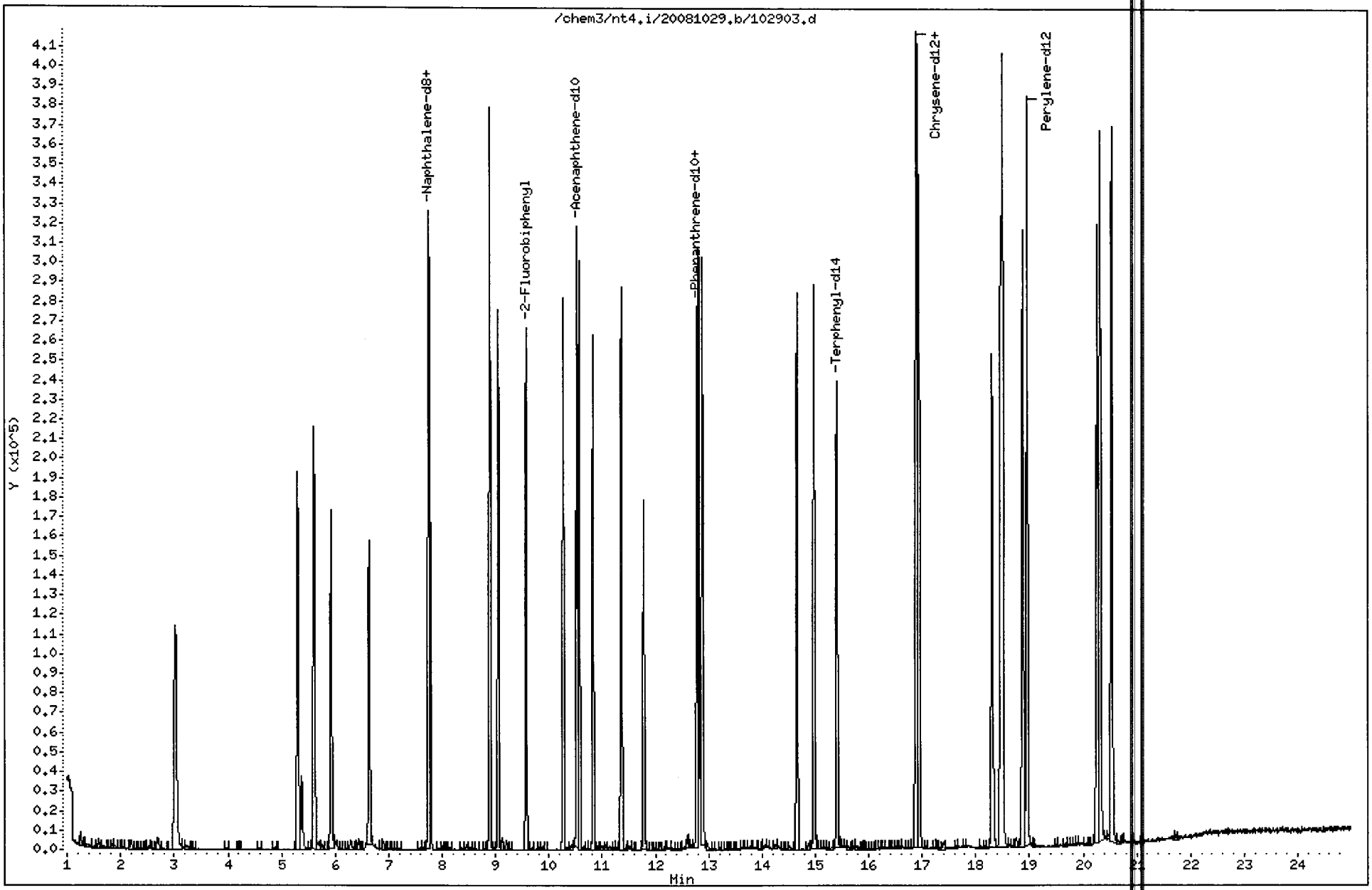
SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	1667	1127	67.64	30-160
$ 66 Terphenyl-d14	1667	1171	70.25	30-123

Data File: /chem3/nt4.i/20081029.b/102903.d
Date : 29-OCT-2008 11:55
Client ID: NS36LCSDS1
Sample Info: NS36LCSDS1
Volume Injected (uL): 1.0
Column phase: ZB-5

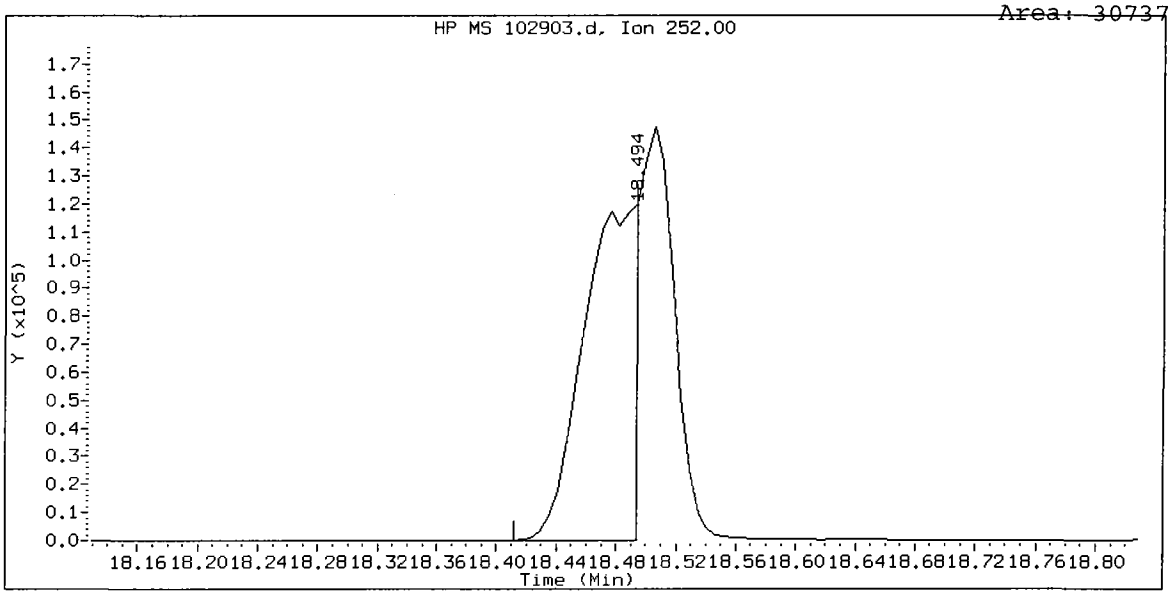
Instrument: nt4.i

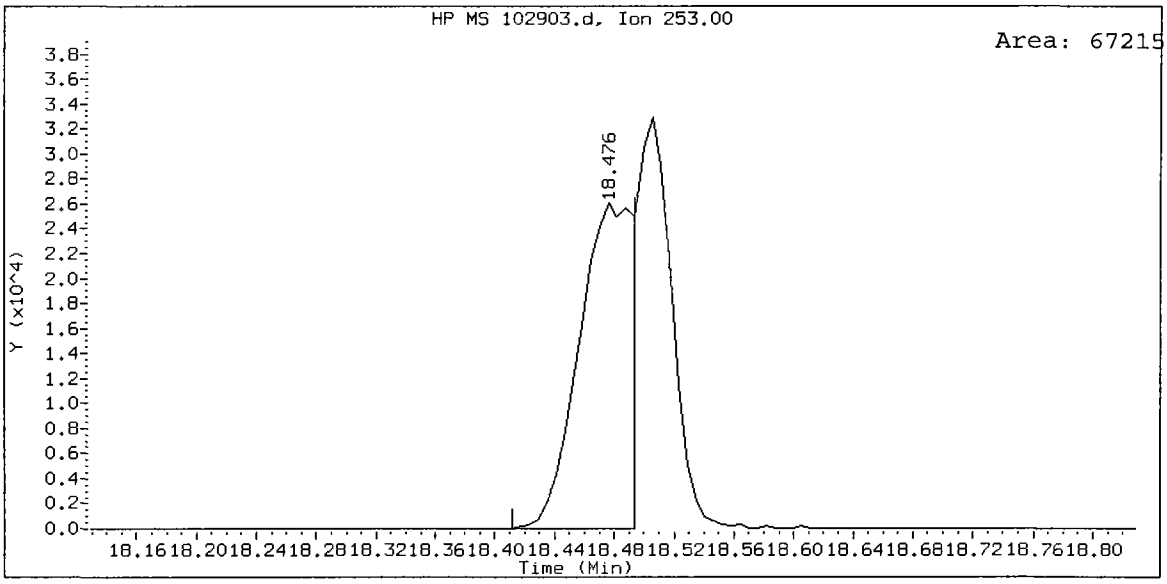
Operator: LJR/VTS
Column diameter: 0.32

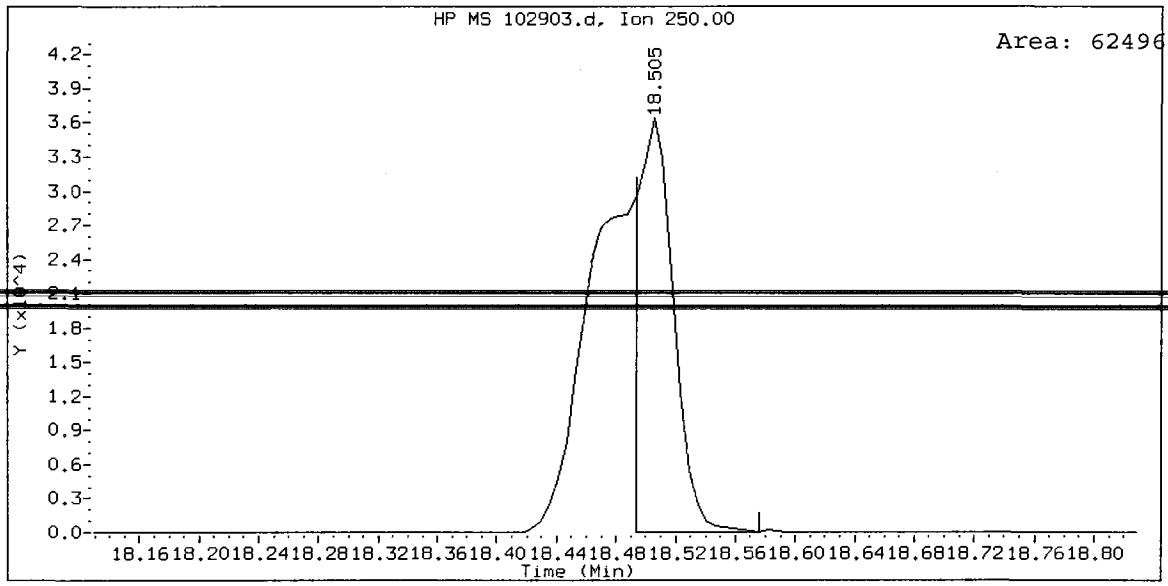
0167



NS36LCSDS1, /chem3/nt4.i/20081029.b/102903.d
Benzo(b)fluoranthene Amount: 20.61







PNA Analysis
Extraction Bench Sheets and Run Logs

prepared
for

ANCHOR ENVIRONMENTAL, LLC.

PROJECT: EDDON BOATYARD, 040289-02

ARI JOB NO: NS89

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

(8270) PNA Soil / Sediment
Sonication (3550B) (SOP # 357S)
Microwave (3546)
In-House

Preparation Test PNA # 1
ARI Job No(s) N536, N583, N582, N589
Batch set up by: JA

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted	KD	TurboVap (1) 2 3	(Opt) Silica Gel Clean (1:1) Y / N	TurboVap (1) 2 3	Final Effective Volume	Volume to Lab	Comments
	N536 MBS	Date 10/14/8	7.50g		↓	1:1	↓	0.5mL	0.5mL	Filtered w/.45 Filter
	SBS	↓	↓		↓	↓	↓	↓	↓	↓
	SBS Dup.	↓	↓		↓	↓	↓	↓	↓	↓
6	A	verified	8.18				↓	↓	↓	
↓	Ams	↓	8.30				↓	↓	↓	
↓	Amsd	↓	8.24				↓	↓	↓	
2	C	↓	9.28	#1	1:1	↓	↓	↓	↓	filtered w/.45
6	G	↓	9.14	↓	↓	↓	↓	↓	↓	Filtered w/Gpy
11-2 AC	N583 E	↓	8.20	↓	↓	↓	↓	↓	↓	Filtered w/.45
6	N582 A	↓	9.12	—	—		↓	↓	↓	
1	N589 A	↓	9.36	#1	1:1					Filtered w/.45

Analyst/Date: AC 10/14/8 WW 10/16/08 → → →

26188 26414 26409 26412

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
BAN Surrogate	A2	125µL	3/13/09	AC	MH
8270 PNA Spike	20	125µL	1/14/09	AC	MH

Extraction Time: 15:45

SPECIAL INSTRUCTIONS: 1. ~~Weigh into 100mL beakers~~. 2. ~~Extract 2X with 1:1 DCM/Acetone. Plus 1 X DCM~~ only.
3. ~~Collect into 150mL beaker with 5-10g sodium sulfate in the bottom + small funnel with pre-rinsed neutral glasswool~~.
4. ~~KD (small drying column) to ~8mL at 85-90°~~. 5. ~~Exchange (2 X with 10mL) to Hexane at 100°~~. 6. TurboVap. 0170
7. Silica Clean-up Y / N. 8. TurboVap (if Silica Clean). 9. Vial.
A. Need Total Solids Y / (N) B. ~~Archive~~ / Freeze Y / N
N589 only

3007F

Revision 009
04/23/2008

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: NS89

Client ID: Anchor Environmental, LLC

Parameter: 8270 PNA

Client Project: EDDON Boatyard

SOP Number(s):

No Anomalies:

NS89 List problems, concerns, corrective actions and any other pertinent information 10/08/08
✓ Sandy Soil. J.F.

Analyst Initials:		Date:	

3056F

Revision 006
1/12/07

Extractions Total Solids-extts
Data By: Jim Hawk
Created: 10/ 8/08

Worklist: 2368
Analyst: JBH
Comments:

	ARI ID CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1.	NS89A 08-26492 EB-SO01-COMP-081003	1.16	12.59	10.87		NR

Analytical Resources Inc.: Organics Instrument Log

NT-4 Serial No.: GC = US00010849; MS = US72821113

Date: 10/27/08 Analysis: ABN Analyst: pk

GC Program: ABN Column No: 134571 Column Type: 30m rtx5

Instrument Tune (.U or .CT.): 081013 EM Voltage: 1282

Calibration File: IC102701 Curve Date: 10/27/08

IS/SS	Ical/Ccal	LCS/ICV
1506-1	1550-1,2; 1551-1 1552-1 1553-1,2	1507-1510

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt4.i/20081027.b

	Time	Filename	LabID	ClientId	DF										
1	1143	ic102701.d	ABN 25		1	5.82	59818	7.94	215926	10.73	106515	12.99	159025	17.14	159466	18.52	245174	19.20	2
2	1217	ic102702.d	ABN 80		1	5.83	54801	7.94	194864	10.73	95590	13.00	153801	17.15	156559	18.53	241452	19.21	1
3	1251	ic102703.d	ABN 1		1	5.82	47714	7.93	170030	10.72	85306	12.99	125494	17.13	125478	18.51	190040	19.20	15
4	1325	ic102704.d	ABN 40		1	5.82	50787	7.94	183360	10.72	92903	13.00	144088	17.14	137636	18.52	209256	19.20	15
5	1359	ic102705.d	ABN 5		1	5.81	58649	7.93	201531	10.72	97128	12.99	137214	17.13	123749	18.51	190479	19.19	15
6	1433	ic102706.d	ABN 10		1	5.82	63989	7.93	226992	10.72	113775	12.99	172870	17.13	164524	18.52	252497	19.20	200
7	1507	ic102707.d	ICV		1	5.82	54850	7.94	196976	10.72	99996	12.99	152007	17.14	154600	18.52	242005	19.20	190
8	1542	102701.d	NU70MBS1		1	5.82	58109	7.93	208386	10.72	106108	12.99	161942	17.13	153016	18.52	234763	19.19	133
9	1616	102702.d	NU70LCSS1		1	5.81	55575	7.93	206135	10.72	106256	12.99	159403	17.13	164108	18.52	249200	19.20	1736
10	1650	102703.d	NU70A		1	5.82	54913	7.93	193600	10.71	102794	12.98	153964	17.12	155236	18.51	247003	19.19	1744
11	1725	102704.d	NU70B		1	5.82	57050	7.93	200603	10.72	104902	12.99	157348	17.13	156268	18.51	240041	19.19	1862
12	1759	102705.d	NU70C		1	5.82	55532	7.93	189285	10.72	101767	12.99	159275	17.13	195601	18.52	302888	19.20	21451
13	1833	102706.d	NU70D		1	5.82	59086	7.93	207182	10.72	117019	12.99	205536	17.15	268765	18.54	410466	19.24	20680
14	1908	102707.d	NU70E		1	5.82	59639	7.93	201849	10.72	102414	12.99	168291	17.14	224803	18.52	357356	19.20	20431
15	1942	102708.d	NU70F		1	5.82	61021	7.93	218590	10.72	117421	12.99	187758	17.14	208538	18.52	348695	19.20	19675
16	2016	102709.d	NU70G		1	5.82	61744	7.93	215850	10.72	114516	12.99	184462	17.13	197940	18.52	322728	19.20	193059
17	2050	102710.d	NU70J		1	5.82	59512	7.93	212876	10.72	114685	12.99	187702	17.14	222314	18.52	342261	19.20	198131
18	2124	102711.d	NU70K		1	5.82	56395	7.93	203917	10.72	111756	12.99	190698	17.14	229776	18.52	347886	19.21	191496
19	2158	102712.d	NU70KMS		1	5.82	61715	7.94	215674	10.73	113433	13.00	188830	17.14	229849	18.52	358581	19.21	212408
20	2231	102713.d	NU70KMSD		1	5.82	63649	7.94	222270	10.73	119988	13.00	197522	17.14	236071	18.52	364551	19.20	189219
21	2305	102714.d	NV03B		1	5.82	62990	7.93	228165	10.72	123943	12.99	203994	17.15	260723	18.52	389082	19.21	202679
22	2339	102715.d	NV03J		1	5.82	62493	7.93	223491	10.72	125939	13.00	209672	17.19	483094	18.58	467256	19.28	263263
23	0012	102716.d	NV03N *		1	5.82	65260	7.93	229533	10.72	123672	13.00	196920	17.14	208350	18.52	368282	19.21	179348
24	0046	102717.d	NV03P *		1	5.83	64062	7.93	235442	10.72	127784	12.99	202275	17.14	208209	18.52	349203	19.21	172837

pk 10/28/08 New liner, clean seal, chg col

* outside QC

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): IC102701

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: _____ Client ID: _____

ARI SOP: **801S**(SIM-PNA) **802S**(BTS-HX) **803S**(BTS-PW) **804S**(8270D) **805S**(BTS-ET)

Parameter(s): NT4 ABN CURVE 10/27/08

Instrument: NT-1 NT-2 (NT-4) NT-6

Curve Date: _____ Analysis Start Date: _____

DFTPP Tune Meets Criteria?	YES / NO	Method Blank in Control?	YES / NO
DDT Breakdown <20%?	YES / NO / NA	LCS / LCSD Recovery in Control?	YES / NO
Peak Tailing Factor in Control?	YES / NO / NA	MS/MSD Recovery in Control?	YES / NO
ICal Meets RF & %RSD Criteria?	YES / NO	Surrogate Recovery in Control?	YES / NO
CCal Meets RF & %RSD Criteria?	YES / NO	Special Analysis Criteria Met?	YES / NO / NA
Internal Standard Meets Criteria?	YES / NO		

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

~~All~~ All cmpds except N-Nitrosodiphenylamine < 15/40% RSD or $R^2 > .990$. That one has $R^2 = .982$ Linear fit.

Additional Details on Reverse: Yes / No

Analyst Signature: _____ **Date:** 10/28/08

Reviewer's Signature: _____ **Date:** 10/31/08

Analytical Resources Inc.: Organics Instrument Log

NT-4 Serial No.: GC = US00010849; MS = US72821113

Date: 10/29/08 Analysis: PNA Analyst: MK

GC Program: ABN Column No: 133571 Column Type: ~~DB-5ms~~ Rtx-5Sil MS

Instrument Tune (.U or .CT.): 081013.U EM Voltage: 1282

Calibration File: cc1029 Curve Date: 10/27/08

IS/SS	Ical/Ccal	LCS/ICV
	1550-1,2	
1506-1	1551, 1552-1	
	1553-1,2	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt4.i/20081029.b

	Time	Filename	LabID	ClientId	DF									
1	1003	cc1029.d	ABN 25		1	7.75	254175	10.53	120792	12.79	171750	16.91	179812	18.97	249052
2	1047	102901.d	NS36MBS1	NS36MBS1	1	7.74	192018	10.53	94502	12.78	135930	16.91	134047	18.96	191278
3	1121	102902.d	NS36LCSS1	NS36LCSS1	1	7.75	205102	10.53	98446	12.79	141589	16.91	146973	18.96	201500
4	1155	102903.d	NS36LCSDS1	NS36LCSDS1	1	7.74	221835	10.53	110742	12.78	166003	16.91	175877	18.96	238006
5	1229	102904.d	NT85B	B41-20-21	1000	7.74	222722	10.53	109097	12.78	152883	16.91	165639	18.96	215275
6	1303	102905.d	NT85E	B38-21.5-22.	200	7.74	220741	10.53	107531	12.78	148964	16.91	160513	18.96	216812
7	1337	102906.d	NT85F	B38-22.4-23.0	50	7.74	196214	10.53	99005	12.78	142703	16.91	154366	18.96	203155
8	1411	102907.d	NT85I	B36-19.3-20.1	000	7.74	174448	10.53	88469	12.78	125089	16.90	124825	18.96	164414
9	1446	102908.d	NT85J	B36-21.0-22	200	7.74	190177	10.52	93294	12.78	134580	16.90	148712	18.96	203133
0	1521	102909.d	NS82A	QTS-100308-SS-	1	7.74	164796	10.53	82426	12.78	120675	16.90	132253	18.96	179520
1	1555	102910.d	NS89A	EB-SO01-COMP-0	1	7.74	148792	10.52	78912	12.78	119308	16.91	137360	18.97	181777
2	1630	102911.d	NS36G		3	7.75	153747	10.54	91578	12.80	177606	16.96	306006	19.05	372346
3	1704	102912.d	NS83E	HC08-EP111	3	7.74	194649	10.53	103620	12.78	168980	16.91	234345	18.97	287577
4	1739	102913.d	NS36C	HC08-EP118	10	7.74	189092	10.53	98786	12.79	153017	16.91	191546	18.97	253984
5	1814	102914.d	NT61A		3	7.74	179324	10.53	97232	12.78	166391	16.92	250662	19.01	307389
6	1848	102915.d	NT61B		1	7.74	181712	10.53	92092	12.78	142144	16.91	174735	18.97	218836
7	1922	102916.d	NT61D		3	7.74	172321	10.53	87929	12.79	140641	16.92	211015	18.99	235855
8	1956	102917.d	NT61E		1	7.74	179322	10.53	90041	12.78	144540	16.91	175824	18.97	217264
9	2030	102918.d	NT61F		1	7.77	224828	10.54	101898	12.79	154511	16.93	227639	19.00	291611
0	2104	102919.d	NT61I		1	7.75	182771	10.53	94036	12.79	151973	16.92	192627	18.99	242327
1	2138	102920.d	NT61K		1	7.74	160892	10.53	87435	12.79	146113	16.95	208998	19.02	258680

M... MK 10/30/08

New liner, chop col.

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): cc1029

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: N855 Client ID: Anchor

ARI SOP: **801S**(SIM-PNA) **802S**(BTS-HX) **803S**(BTS-PW) **804S**(8270D) **805S**(BTS-ET)

Parameter(s): PNA

Instrument: NT-1 NT-2 NT-4 NT-6

Curve Date: 10/27/08 Analysis Start Date: 10/29/08

DFTPP Tune Meets Criteria?	YES / NO	Method Blank in Control?	YES / NO
DDT Breakdown <20%?	YES / NO / NA	LCS / LCSD Recovery in Control?	YES / NO
Peak Tailing Factor in Control?	YES / NO / NA	MS/MSD Recovery in Control?	YES / NO
ICal Meets RF & %RSD Criteria?	YES / NO	Surrogate Recovery in Control?	YES / NO
CCal Meets RF & %RSD Criteria?	YES / NO	Special Analysis Criteria Met?	YES / NO / NA
Internal Standard Meets Criteria?	YES / NO		

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst Signature: [signature] **Date:** 10/30/08

Reviewer's Signature: [signature] **Date:** 10/30/08

0176

Analytical Resources, Incorporated
Analytical Chemists and Consultants

October 22, 2008

Joy Dunay
Anchor Environmental
1423 3rd Avenue, Suite 300
Seattle, WA 98101

RE: 040289-02 Eddon Boatyard
ARI Job No. NS86

Dear Joy:

Please find enclosed the original chain of custody documentation and the final data package for samples from the project referenced above.

Sample receipt and details of the analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Susan Dunnihoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures

cc: eFile NS86

SD/sdrd

Chain of Custody Documentation

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NS86

Prepared
By

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested: 72 hour on SED.	Page: 1 of 1	
ARI Client Company: Anchor Environmental	Phone: 206-903-3320	Date: 10/3/08	Ice Present?
Client Contact: Joy Duray		No. of Coolers:	Cooler Temps:
Client Project Name: EDDON Boatyard			
Client Project #: 040289-02	Samplers: JD, DG		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Total Solid	TOC	SMS Metals	SMS SVOCs	TBT (ASTM Porewater)	SMS PCBs	MTCA PAHs	Grainsize PSEP	Notes/Comments
EB-SED1-A-081003	10/3/08	1300	SE	2					X				72 HOUR RUSH
EB-SED2-A-081003		1230	SE	2					X				
EB-SED3-A-081003		1145	SE	5	X	X	X	X	X	X		X	
EB-SED3-B-081003		1150	SE	1									ARCHIVE ONLY
EB-SED4-A-081003		1200	SE	4	X	X	X	X	X	X		X	
EB-SED4-B-081003		1205	SE	1									ARCHIVE ONLY
EBSOD1-COMP-081003		1415	SO	1	X						X		

Analysis Requested

Comments/Special Instructions: RUSH TAT 72 hrs on SEDIMENT SAMPLES

	Relinquished by:	Received by:	Relinquished by:	Received by:
(Signature)	Joy Duray	Jonathan Walter		
Printed Name:	Joy Duray	Jonathan Walter		
Company:	Anchor Env.	ARI		
Date & Time:	10/3/08 1600	10/3/08 1600		

2000

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Anchor
Project Name: EDDDN Boatyard
COC No:
Delivered by: Hand
Assigned ARI Job No:
Tracking No:

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES (NO)
Were custody papers included with the cooler? (YES) NO
Were custody papers properly filled out (ink, signed, etc.) (YES) NO
Record cooler temperature (recommended 2.0-6.0 °C for chemistry 8.2 °C

Cooler Accepted by: JW Date: 10/3/08 Time: 1600

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)
What kind of packing material was used? ICE
Was sufficient ice used (if appropriate)? YES (NO)
Were all bottles sealed in individual plastic bags? YES (NO)
Did all bottle arrive in good condition (unbroken)? (YES) NO
Were all bottle labels complete and legible? ~~YES~~ (NO)
Did all bottle labels and tags agree with custody papers? YES (NO)
Were all bottles used correct for the requested analyses? (YES) NO
Do any of the analyses (bottles) require preservation? (attach preservation checklist) YES (NO)
Were all VOC vials free of air bubbles? (NA) YES NO
Was sufficient amount of sample sent in each bottle? (YES) NO

Samples Logged by: JW Date: 10/3/08 Time: 1635

*** Notify Project Manager of discrepancies or concerns ***

Explain discrepancies or negative responses:

Extra sample logged in as 3A,
EB-SE04-A-081003 had 1 extra jar

By: Date:

0003

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: N586	Turn-around Requested:	Page: 1 of 1	
ARI Client Company: ANCHOR	Phone:	Date: 10/6/08	Ice Present?
Client Contact: Joy Dunay		No. of Coolers:	Cooler Temps:
Client Project Name: EDDON BOATYARD			
Client Project #: 040289-02	Samplers:		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: TBT	Notes/Comments
EB-SED1-A-081003	10/6/08	13:30	H_2O	1	✓	
EB-SED2-A-081003	10/6/08	13:31	H_2O	1	✓	
EB-SED3-A-081003	10/6/08	14:20	H_2O	1	✓	
EB-SED4-A-081003	10/6/08	14:21	H_2O	1	✓	

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name:	Printed Name: BRIAN ILEGEC	Printed Name:	Printed Name:
	Company:	Company: ARI	Company:	Company:
	Date & Time:	Date & Time: 10/6/08 1430	Date & Time:	Date & Time:

0004

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Case Narrative

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NS86

Prepared
By

Analytical Resources, Inc.

Case Narrative

Client: Anchor Environmental
Project: 040289-02 Eddon Boatyard
ARI Job Nos. NS86

Sample receipt

Seven sediment samples were received by Analytical Resources on October 3, 2008 at a cooler temperature of 8.2°C measured by IR thermometer. Samples were well-iced, in good condition and received within a short time of sampling. There were no discrepancies in paperwork. Samples were logged under ARI Job NS52 for bulk analysis and pore waters. The results of TBT analysis of the pore water are reported here.

TBT by SW8270-SIM

The samples was extracted and analyzed within the method recommended holding times.

Initial and continuing calibrations were within method requirements. Internal standard areas were within limits.

The method blank was clean at the reporting limit. The Laboratory Control Sample had recoveries within limits.

Surrogates recoveries were within ARI limits.

The MS/MSD had recoveries and RPD within limits.

Sample EB-SE01-A-081003 required reanalysis at dilution due to results above the calibrated range of the instrument. Both sets of results have been included in this report.

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U	Indicates that the target analyte was not detected at the reported concentration
*	Duplicate RPD is not within established control limits
B	Reported value is less than the CRDL but ≥ the Reporting Limit
N	Matrix Spike recovery not within established control limits
NA	Not Applicable, analyte not spiked
H	The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
L	Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U	Indicates that the target analyte was not detected at the reported concentration
*	Flagged value is not within established control limits
B	Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
J	Estimated concentration when the value is less than ARI's established reporting limits
D	The spiked compound was not detected due to sample extract dilution
NR	Spiked compound recovery is not reported due to chromatographic interference
E	Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
S	Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
NA	The flagged analyte was not analyzed for
NS	The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.

F Samples were frozen prior to particle size determination

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

LCS SOLUTIONS

9/4/2008

LABE	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
1	1534-5	PCB	20	MEOH	08/26/09
2	1472-3	BCOC PEST	10	ACETONE	07/20/08
3	1517-1	PEST	02/04/20	ACETONE	05/15/09
4	1515-1	LOW PEST	0.2/0.4/2	ACETONE	01/24/09
5	1537-1	EPH	1500	MECL2	08/16/09
6*	1456-3	PCP	12.5	ACETONE	04/18/09
7	1537-3	ABN	100	ACETONE	08/01/09
8	1487-2	TBT	10	MECL2	12/15/08
9	1493-3	PORE TBT	.25/.5	MECL2	12/15/08
10	1537-2	ABN ACID	100/200	MEOH	04/10/09
11	1526-1	TPHD	15000	ACETONE	06/25/09
12	1533-1	ABN BASE	200	ACETONE	07/01/09
13*	1427-3	LOW PCB	2	ACETONE	10/11/08
14	1480-2	LOW ABN ACID	10/20	MEOH	10/09/08
15*	1452-1	SIM PNA	15/75	MEOH	04/09/09
16	1502-2	DIOXANE	100	MEOH	02/20/09
17	1516-2	1248 PCB	20	ACETONE	05/07/09
18	1514-4	LOW SIM PNA	1.5/7.5	ACETONE	04/24/09
19	1517-3	AK103	7500	MECL2	12/29/08
20	1490-4	PNA	100	MEOH	01/10/09
21*	1414-4	SKY/BHT	100	MEOH	04/08/09
22	1539-1	HERB	12.5/12500	MEOH	08/31/09
23	1505-1	LOW ABN BASE	20	MEOH	03/20/09
24	1504-4	LOW ABN	10	ACETONE	10/01/08
25	1481-1	DIPHENYL	100	MEOH	07/20/08
26	1522-2	OP-PEST	30	MEOH	11/30/08
27	1495-1	STEROLS	200	MEOH	12/29/08
28	1494-1	ADD. PEST	4	ACETONE	01/23/09
29	1496-3	DECANES	100	MEOH	02/12/09
30	1497-2	EDB/DBCP	2	ACETONE	02/12/09
31	1510-3	TERPINEOL	100	MEOH	03/21/09

LCS SOLUTIONS

9/4/2008

32	1533-2	GUAIACOL	50-200	ACETONE	06/05/09
33	1522-1	RESIN ACID	250	ACETONE	06/11/09
34	1530-2	CONGENERS	250	ACETONE	07/23/09
50	1523-1	FULL RESIN	250	ACETONE	06/10/09
*=REVERIFIED SOLUTION					

SURR SOLUTIONS

9/4/2008

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
A	1525-4	ABN	100/150	MEOH	03/13/09
B	1513-1	SIM PNA	15/75	MEOH	04/15/09
C*	1443-1	SIM ABN	10/15	MEOH	04/03/09
D	1516-3	LOW PCB	0.2	ACETONE	05/09/09
E	1478-1	HERB	62.5	MEOH	09/21/08
F	1520-3	PCP	12.5	ACETONE	04/18/09
G	1502-3	1,4DIOXANE	100	MEOH	02/20/09
H	1504-2	OP-PEST	25	MEOH	03/20/09
I*	1458-1	LOW S. PNA	03/15	MEOH	06/05/09
J	1493-2	TBT-PORE	0.25	MECL2	12/15/08
K	1490-3	MED PCB	20	ACETONE	01/14/09
L	1486-5	TBT	10	MECL2	12/15/08
M	1518-3	EPH	1500	MECL2	05/10/09
N	1518-4	PCB	2	ACETONE	05/29/09
O	1521-3	TPH	450	MECL2	12/29/08
P	1518-2	HCID	2250	MECL2	12/29/08
Q	1497-3	EDB	2	ACETONE	02/12/09
R	1521-4	RESIN ACID	250	ACETONE	06/11/09
S	*RE-VER	FIED SOLUT	ION		
T					
U					
V					
W					
X					
Y					
Z					

Data Summary Package

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NS86

Prepared
By

Analytical Resources, Inc.

TBT

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS **Sample ID: EB-SE01-A-081003**
Page 1 of 1 **SAMPLE**

Lab Sample ID: NS86A
LIMS ID: 08-26450
Matrix: Pore Water
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS86-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/06/08
Date Received: 10/06/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 17:33
Instrument/Analyst: NT1/VTS

Sample Amount: 100 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	**Tributyl Tin Ion**	**0.008**	**0.064**	
DBT_ION	**Dibutyl Tin Ion**	**0.012**	**0.016**	
BT_ION	Butyl Tin Ion	0.008	< 0.008	U

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	80.0%
Tripentyl Tin Chloride	82.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: EB-SEO2-A-081003
SAMPLE

Lab Sample ID: NS86B
LIMS ID: 08-26451
Matrix: Pore Water
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS86-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/06/08
Date Received: 10/06/08

Date Extracted: 10/07/08
Date Analyzed: 10/09/08 08:55
Instrument/Analyst: NT1/VTS

Sample Amount: 100 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyl Tin Ion	0.008	0.10	
DBT_ION	Dibutyl Tin Ion	0.012	0.033	
BT_ION	Butyl Tin Ion	0.008	0.026	

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	69.4%
Tripentyl Tin Chloride	81.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: EB-SEO3-A-081003
SAMPLE

Lab Sample ID: NS86C
LIMS ID: 08-26452
Matrix: Pore Water
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS86-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/06/08
Date Received: 10/06/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 18:52
Instrument/Analyst: NT1/VTS

Sample Amount: 100 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyl Tin Ion	0.008	0.74	E
DBT_ION	Dibutyl Tin Ion	0.012	0.16	
BT_ION	Butyl Tin Ion	0.008	0.037	

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	67.4%
Tripentyl Tin Chloride	63.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: EB-SE03-A-081003
DILUTION

Lab Sample ID: NS86C
LIMS ID: 08-26452
Matrix: Pore Water
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS86-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/06/08
Date Received: 10/06/08

Date Extracted: 10/07/08
Date Analyzed: 10/09/08 09:14
Instrument/Analyst: NT1/VTS

Sample Amount: 100 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 3.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyl Tin Ion	0.023	0.64	
DBT_ION	Dibutyl Tin Ion	0.035	0.15	
BT_ION	Butyl Tin Ion	0.024	0.046	

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	46.5%
Tripentyl Tin Chloride	59.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS **Sample ID: EB-SE04-A-081003**
Page 1 of 1 **SAMPLE**

Lab Sample ID: NS86D
LIMS ID: 08-26453
Matrix: Pore Water
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS86-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/06/08
Date Received: 10/06/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 19:12
Instrument/Analyst: NT1/VTS

Sample Amount: 100 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyl Tin Ion	0.008	0.044	
DBT_ION	Dibutyl Tin Ion	0.012	0.014	
BT_ION	Butyl Tin Ion	0.008	0.010	

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	71.5%
Tripentyl Tin Chloride	80.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS **Sample ID: LCS-100708**
Page 1 of 1 **LAB CONTROL SAMPLE**

Lab Sample ID: LCS-100708
LIMS ID: 08-26451
Matrix: Pore Water
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS86-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Date Extracted LCS: 10/07/08
Date Analyzed LCS: 10/08/08 17:14
Instrument/Analyst LCS: NT1/VTS

Sample Amount LCS: 100 mL
Final Extract Volume LCS: 0.50 mL
Dilution Factor LCS: 1.00
Alumina Cleanup: Yes

Analyte	LCS	Spike Added	Recovery
Tributyl Tin Ion	0.087	0.112	77.7%
Dibutyl Tin Ion	0.128	0.192	66.7%
Butyl Tin Ion	0.044	0.156	28.2%

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	65.0%
Tripentyl Tin Chloride	76.1%

ANALYTICAL RESOURCES INCORPORATED

TBT SURROGATE RECOVERY SUMMARY

Matrix: Pore Water

QC Report No: NS86-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02

Client ID	TPRT	TPNT	TOT OUT
EB-SEO1-A-081003	80.0%	82.8%	0
MB-100708	78.3%	78.2%	0
LCS-100708	65.0%	76.1%	0
EB-SEO2-A-081003	69.4%	81.7%	0
EB-SEO2-A-081003 MS	75.6%	81.4%	0
EB-SEO2-A-081003 MSD	87.8%	96.2%	0
EB-SEO3-A-081003	67.4%	63.8%	0
EB-SEO3-A-081003 DL	46.5%	59.5%	0
EB-SEO4-A-081003	71.5%	80.0%	0

	LCS/MB LIMITS	QC LIMITS
(TPRT) = Tripropyl Tin Chloride	(27-108)	(23-120)
(TPNT) = Tripentyl Tin Chloride	(41-121)	(40-119)

Prep Method: SW3510C
Analytical Method: TBT (Hexyl) Krone 1988
Log Number Range: 08-26450 to 08-26453

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: EB-SEO2-A-081003
MATRIX SPIKE

Lab Sample ID: NS86B
LIMS ID: 08-26451
Matrix: Pore Water
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS86-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/06/08
Date Received: 10/06/08

Date Extracted MS: 10/07/08

Date Analyzed MS: 10/08/08 18:13
MSD: 10/08/08 18:32
Instrument/Analyst MS: NT1/VTS
MSD: NT1/VTS

Sample Amount MS: 100 mL
MSD: 100 mL
Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL
Dilution Factor MS: 1.00
MSD: 1.00
Alumina Cleanup: Yes

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Tributyl Tin Ion	0.101	0.211	0.112	98.2%	0.225	0.112	111%	6.4%
Dibutyl Tin Ion	0.033	0.190	0.192	81.8%	0.211	0.192	92.7%	10.5%
Butyl Tin Ion	0.026	0.104	0.156	50.0%	0.126	0.156	64.1%	19.1%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS

Sample ID: EB-SEO2-A-081003
MATRIX SPIKE

Lab Sample ID: NS86B
LIMS ID: 08-26451
Matrix: Pore Water
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS86-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/06/08
Date Received: 10/06/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 18:13
Instrument/Analyst: NT1/VTS

Sample Amount: 100 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyl Tin Ion	0.008	---	
DBT_ION	Dibutyl Tin Ion	0.012	---	
BT_ION	Butyl Tin Ion	0.008	---	

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	75.6%
Tripentyl Tin Chloride	81.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: EB-SEO2-A-081003
MATRIX SPIKE DUP

Lab Sample ID: NS86B
LIMS ID: 08-26451
Matrix: Pore Water
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS86-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/06/08
Date Received: 10/06/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 18:32
Instrument/Analyst: NT1/VTS

Sample Amount: 100 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyl Tin Ion	0.008	---	
DBT_ION	Dibutyl Tin Ion	0.012	---	
BT_ION	Butyl Tin Ion	0.008	---	

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	87.8%
Tripentyl Tin Chloride	96.2%

4B

SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

NS86MBW1

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS86 Project: EDDON BOATYARD

Lab File ID: NS86MB Date Extracted: 10/07/08

Instrument ID: NT1 Date Analyzed: 10/08/08

Matrix: LIQUID Time Analyzed: 1654

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	NS86LCSW1	NS86LCSW1	NS86SB	10/08/08
02	EB-SEO1-A-081003	NS86A	NS86A	10/08/08
03	EB-SEO2-A-08100	NS86BMS	NS86BMS	10/08/08
04	EB-SEO2-A-08100	NS86BMSD	NS86BMSD	10/08/08
05	EB-SEO3-A-081003	NS86C	NS86C	10/08/08
06	EB-SEO4-A-081003	NS86D	NS86D	10/08/08
07	EB-SEO2-A-081003	NS86B	NS86B	10/09/08
08	EB-SEO3-A-081003	NS86C	NS86CDL	10/09/08
09				
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COMMENTS:

FORM IV SV

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS **Sample ID: MB-100708**
Page 1 of 1 **METHOD BLANK**

Lab Sample ID: MB-100708
LIMS ID: 08-26451
Matrix: Pore Water
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS86-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 16:54
Instrument/Analyst: NT1/VTS

Sample Amount: 100 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyl Tin Ion	0.008	< 0.008	U
DBT_ION	Dibutyl Tin Ion	0.012	< 0.012	U
BT_ION	Butyl Tin Ion	0.008	< 0.008	U

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	78.3%
Tripentyl Tin Chloride	78.2%

Laboratory Data Package

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NS86

Prepared
By

Analytical Resources, Inc.

TBT Analysis
QC Summary Data

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NS86

Prepared
By

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

TBT SURROGATE RECOVERY SUMMARY

Matrix: Pore Water

QC Report No: NS86-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02

Client ID	TPRT	TPNT	TOT OUT
EB-SEO1-A-081003	80.0%	82.8%	0
MB-100708	78.3%	78.2%	0
LCS-100708	65.0%	76.1%	0
EB-SEO2-A-081003	69.4%	81.7%	0
EB-SEO2-A-081003 MS	75.6%	81.4%	0
EB-SEO2-A-081003 MSD	87.8%	96.2%	0
EB-SEO3-A-081003	67.4%	63.8%	0
EB-SEO3-A-081003 DL	46.5%	59.5%	0
EB-SEO4-A-081003	71.5%	80.0%	0

	LCS/MB LIMITS	QC LIMITS
(TPRT) = Tripropyl Tin Chloride	(27-108)	(23-120)
(TPNT) = Tripentyl Tin Chloride	(41-121)	(40-119)

Prep Method: SW3510C
Analytical Method: TBT (Hexyl) Krone 1988
Log Number Range: 08-26450 to 08-26453

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: EB-SEO2-A-081003
MATRIX SPIKE

Lab Sample ID: NS86B
LIMS ID: 08-26451
Matrix: Pore Water
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS86-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/06/08
Date Received: 10/06/08

Date Extracted MS: 10/07/08

Sample Amount MS: 100 mL
MSD: 100 mL

Date Analyzed MS: 10/08/08 18:13
MSD: 10/08/08 18:32

Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL

Instrument/Analyst MS: NT1/VTS
MSD: NT1/VTS

Dilution Factor MS: 1.00
MSD: 1.00

Alumina Cleanup: Yes

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Tributyl Tin Ion	0.101	0.211	0.112	98.2%	0.225	0.112	111%	6.4%
Dibutyl Tin Ion	0.033	0.190	0.192	81.8%	0.211	0.192	92.7%	10.5%
Butyl Tin Ion	0.026	0.104	0.156	50.0%	0.126	0.156	64.1%	19.1%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: LCS-100708
LAB CONTROL SAMPLE

Lab Sample ID: LCS-100708
LIMS ID: 08-26451
Matrix: Pore Water
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS86-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Date Extracted LCS: 10/07/08
Date Analyzed LCS: 10/08/08 17:14
Instrument/Analyst LCS: NT1/VTS

Sample Amount LCS: 100 mL
Final Extract Volume LCS: 0.50 mL
Dilution Factor LCS: 1.00
Alumina Cleanup: Yes

Analyte	LCS	Spike Added	Recovery
Tributyl Tin Ion	0.087	0.112	77.7%
Dibutyl Tin Ion	0.128	0.192	66.7%
Butyl Tin Ion	0.044	0.156	28.2%

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	65.0%
Tripentyl Tin Chloride	76.1%

4B

SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

NS86MBW1

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS86 Project: EDDON BOATYARD

Lab File ID: NS86MB Date Extracted: 10/07/08

Instrument ID: NT1 Date Analyzed: 10/08/08

Matrix: LIQUID Time Analyzed: 1654

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	NS86LCSW1	NS86LCSW1	NS86SB	10/08/08
02	EB-SEO1-A-081003	NS86A	NS86A	10/08/08
03	EB-SEO2-A-08100	NS86BMS	NS86BMS	10/08/08
04	EB-SEO2-A-08100	NS86BMSD	NS86BMSD	10/08/08
05	EB-SEO3-A-081003	NS86C	NS86C	10/08/08
06	EB-SEO4-A-081003	NS86D	NS86D	10/08/08
07	EB-SEO2-A-081003	NS86B	NS86B	10/09/08
08	EB-SEO3-A-081003	NS86C	NS86CDL	10/09/08
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COMMENTS:

FORM IV SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

Instrument ID: NT1 Project: EDDON BOATYARD

DFTPP Injection Date: 10/08/08 DFTPP Injection Time: 1429

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	48.1
68	Less than 2.0% of mass 69	0.1 (0.1)1
69	Mass 69 relative abundance	50.8
70	Less than 2.0% of mass 69	0.1 (0.1)1
127	25.0 - 75.0% of mass 198	51.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	8.2
275	10.0 - 30.0% of mass 198	19.7
365	Greater than 0.75% of mass 198	2.65
441	Present, but less than mass 443	1.2
442	40.0 - 110.0% of mass 198	73.0
443	15.0 - 24.0% of mass 442	14.0 (19.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		IC1008A	IC1008A	10/08/08	1449
02		IC1008B	IC1008B	10/08/08	1515
03		IC1008C	IC1008C	10/08/08	1535
04		IC1008D	IC1008D	10/08/08	1555
05		IC1008E	IC1008E	10/08/08	1614
06		IC1008F	IC1008F	10/08/08	1634
07	NS86MBW1	NS86MBW1	NS86MB	10/08/08	1654
08	NS86LCSW1	NS86LCSW1	NS86SB	10/08/08	1714
09	EB-SEO1-A-081003	NS86A	NS86A	10/08/08	1733
10	EB-SEO2-A-08100	NS86BMS	NS86BMS	10/08/08	1813
11	EB-SEO2-A-08100	NS86BMSD	NS86BMSD	10/08/08	1832
12	EB-SEO3-A-081003	NS86C	NS86C	10/08/08	1852
13	EB-SEO4-A-081003	NS86D	NS86D	10/08/08	1912
14					
15					
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19					
20					
21					
22					

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

Instrument ID: NT1 Project: EDDON BOATYARD

DFTPP Injection Date: 10/09/08 DFTPP Injection Time: 0813

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 80.0% of mass 198	44.3	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	55.1	
70	Less than 2.0% of mass 69	0.4	(0.8)1
127	25.0 - 75.0% of mass 198	49.3	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	7.2	
275	10.0 - 30.0% of mass 198	20.3	
365	Greater than 0.75% of mass 198	2.04	
441	Present, but less than mass 443	8.1	
442	40.0 - 110.0% of mass 198	84.3	
443	15.0 - 24.0% of mass 442	17.5	(20.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		CC1009	CC1009	10/09/08	0832
02	EB-SEO2-A-081003	NS86B	NS86B	10/09/08	0855
03	EB-SEO3-A-081003	NS86C	NS86CDL	10/09/08	0914
04					
05					
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FORM V SV

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS86 Project: EDDON BOATYARD

Cont. Calib. ID: IC1008A Date Analyzed: 10/08/08

Instrument ID: NT1 Time Analyzed: 1449

		IS1 AREA #	RT #	IS2 AREA #	RT #	AREA #	RT #
	12 HOUR STD	221939	9.25	218922	10.15		
	UPPER LIMIT	443878	9.75	437844	10.65		
	LOWER LIMIT	110970	8.75	109461	9.65		
	CLIENT SAMP. NO.						
01	NS86MBW1	162589	9.25	152778	10.15		
02	NS86LCSW1	174371	9.25	166231	10.15		
03	EB-SEO1-A-08	162700	9.25	152840	10.15		
04	EB-SEO2-A-08	168190	9.25	155388	10.15		
05	EB-SEO2-A-08	156422	9.25	150413	10.15		
06	EB-SEO3-A-08	164946	9.25	151090	10.15		
07	EB-SEO4-A-08	159280	9.25	150802	10.15		
08							
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IS1 = Tetrapentyl Tin
IS2 = p-Terphenyl-d14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS86 Project: EDDON BOATYARD

Cont. Calib. ID: CC1009 Date Analyzed: 10/09/08

Instrument ID: NT1 Time Analyzed: 0832

		IS1 AREA #	RT #	IS2 AREA #	RT #	AREA #	RT #
	12 HOUR STD	159620	9.25	143858	10.15		
	UPPER LIMIT	319240	9.75	287716	10.65		
	LOWER LIMIT	79810	8.75	71929	9.65		
	CLIENT SAMP. NO.						
01	EB-SEO2-A-08	130867	9.25	110880	10.15		
02	EB-SEO3-A-08	106234	9.25	94627	10.15		
03							
04							
05							
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19							
20							
21							
22							

IS1 = Tetrapentyl Tin
IS2 = p-Terphenyl-d14

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

TBT Analysis
Sample Data

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NS86

Prepared
By

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: EB-SEO1-A-081003
SAMPLE

Lab Sample ID: NS86A
LIMS ID: 08-26450
Matrix: Pore Water
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS86-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/06/08
Date Received: 10/06/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 17:33
Instrument/Analyst: NT1/VTS

Sample Amount: 100 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	**Tributyl Tin Ion**	**0.008**	**0.064**	
DBT_ION	**Dibutyl Tin Ion**	**0.012**	**0.016**	
BT_ION	Butyl Tin Ion	0.008	< 0.008	U

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	80.0%
Tripentyl Tin Chloride	82.8%

Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ns86a.d
Lab Smp Id: NS86A Client Smp ID: EB-SEO1-A-081003
Inj Date : 08-OCT-2008 17:33
Operator : VTS Inst ID: nt1.i
Smp Info : NS86A
Misc Info : 08-26450
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 07:44 van Quant Type: ISTD
Cal Date : 08-OCT-2008 16:34 Cal File: ic1008f.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	0.50000	Final Extract Volume (mL)
Vo	100.00000	Volume Extracted (L)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ug/L)
$ 1 Tripropyl Tin (Hexyl)	291	7.618	7.617	(0.824)	14671	23.5125	0.1176
2 Tetrabutyl Tin	289	Compound Not Detected.					
3 Tributyl Tin (Hexyl)	319	8.596	8.607	(0.929)	8697	16.6813	0.08341
* 4 Tetrapentyl Tin	333	9.249	9.248	(1.000)	162700	200.000	
5 Dibutyl Tin (Hexyl)	347	9.290	9.289	(0.915)	1688	5.42161	0.02711
$ 6 Tripentyl Tin (Hexyl)	347	9.583	9.583	(0.944)	11136	23.4999	0.1175
7 Butyl Tin (Hexyl)	347	Compound Not Detected.					
* 8 p-Terphenyl-d14	244	10.149	10.149	(1.000)	152840	20.0000	

VTS

10.9.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ns86a.d
Lab Smp Id: NS86A
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: 08-26450

Calibration Date: 08-OCT-2008
Calibration Time: 14:49
Client Smp ID: EB-SEO1-A-081003
Level: LOW
Sample Type: Pore Water

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	162700	-26.69
8 p-Terphenyl-d14	218922	109461	437844	152840	-30.19

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	0.01
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: LIQUID
Lab Smp Id: NS86A
Level: LOW
Data Type: MS DATA
SpikeList File: PW.spk
Sublist File: PW.sub
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: 08-26450

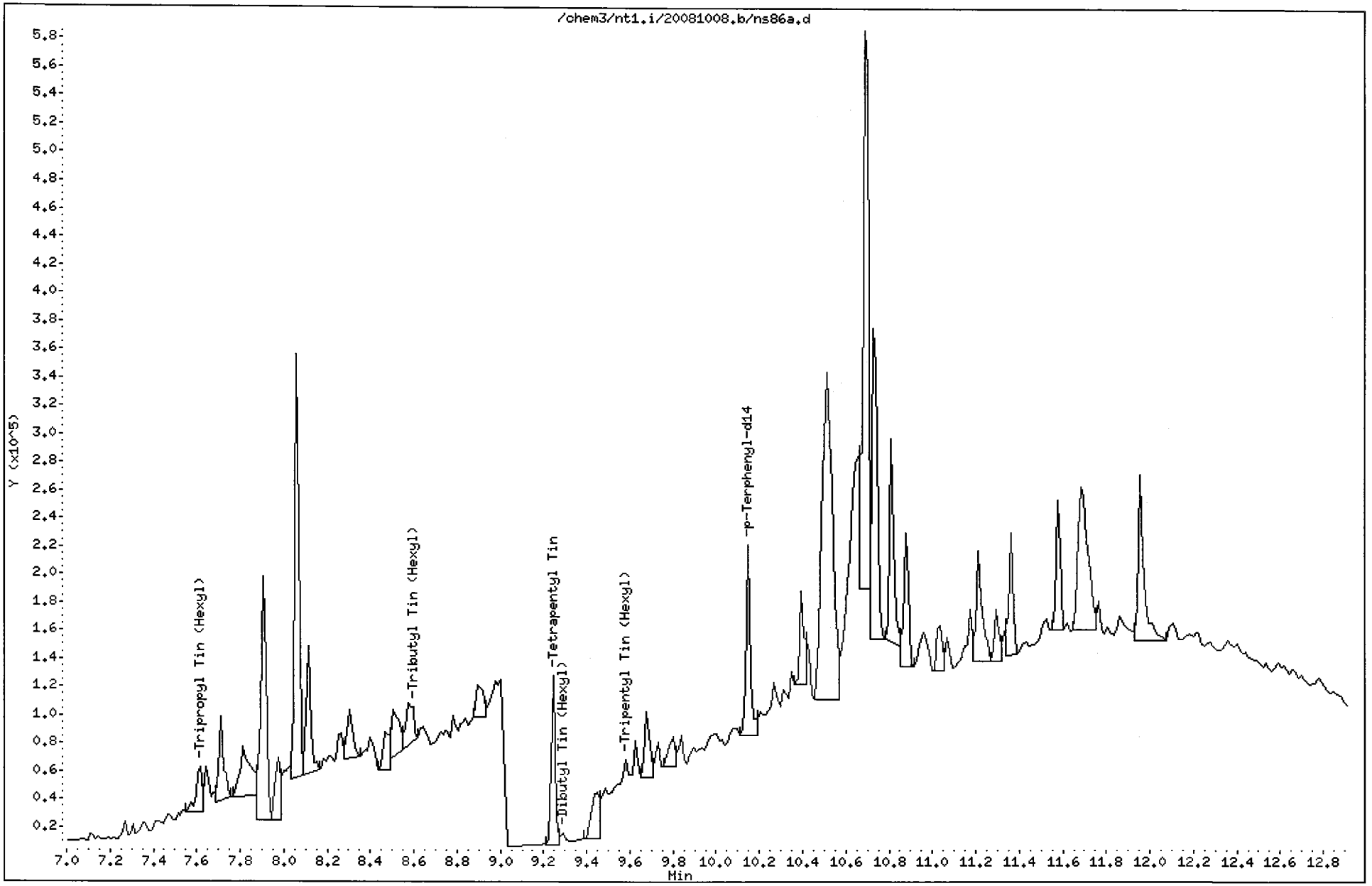
Client SDG: NS86
Fraction: SV
Client Smp ID: EB-SEO1-A-081003
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 1 Tripropyl Tin (Hex	0.1250	0.1176	94.05	30-108
$ 6 Tripentyl Tin (Hex	0.1250	0.1175	94.00	23-97

Data File: /chem3/nt1.i/20081008.b/ns86a.d
Date : 08-OCT-2008 17:33
Client ID: EB-SE01-A-081003
Sample Info: NS86A
Purge Volume: 100.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

0041



Data File: /chem3/nt1.i/20081008.b/ns86a.d

Date : 08-OCT-2008 17:33

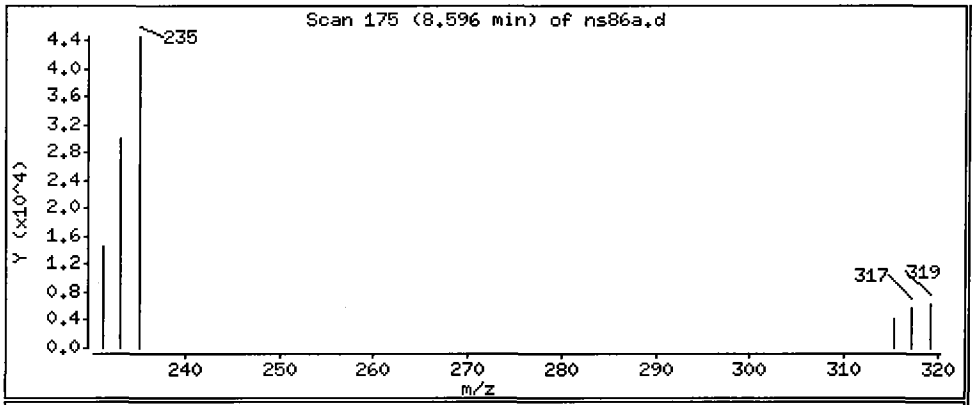
Client ID: EB-SE01-A-081003 Instrument: nt1.i

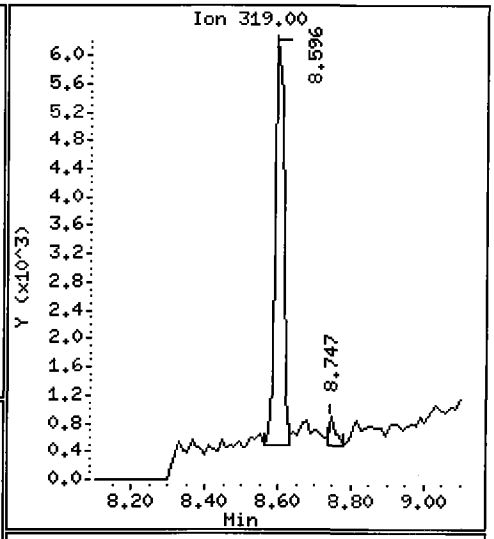
Sample Info: NS86A

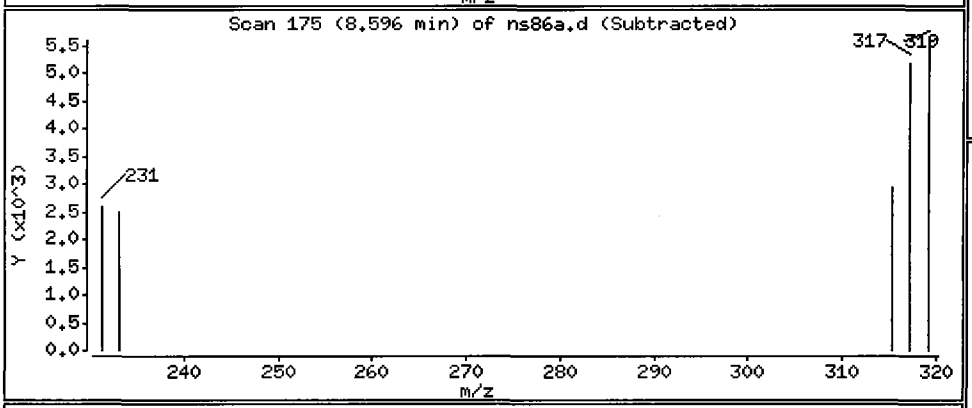
Purge Volume: 100.0 Operator: VTS

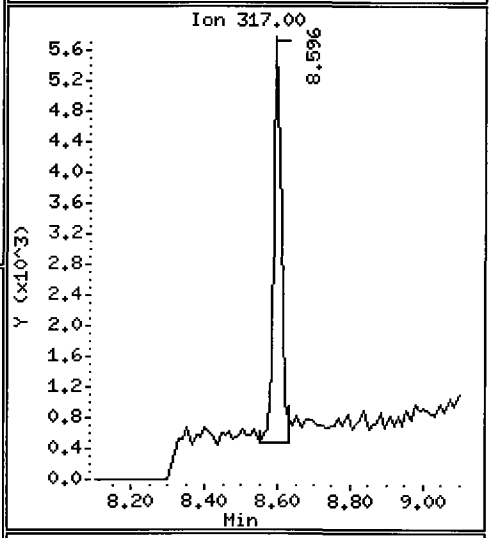
Column phase: ZB-5 Column diameter: 0.25

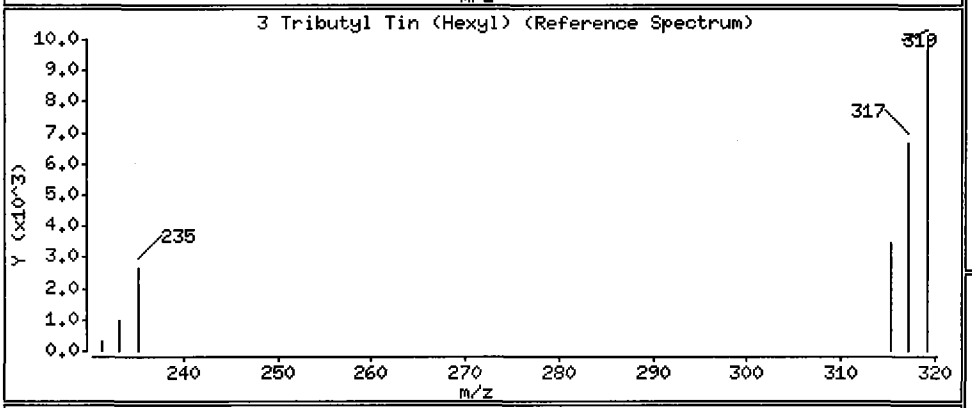
3 Tributyl Tin (Hexyl) Concentration: 0.08341 ug/L

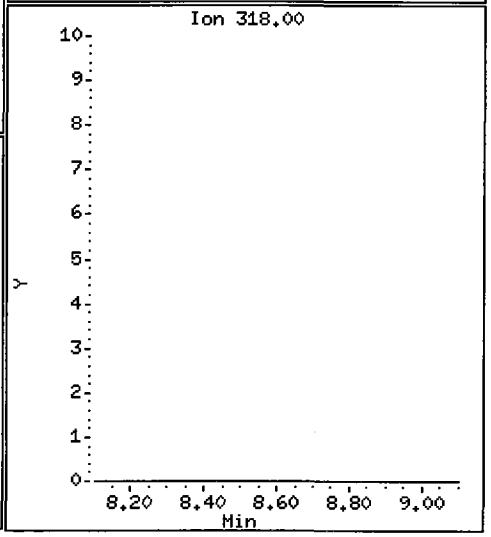


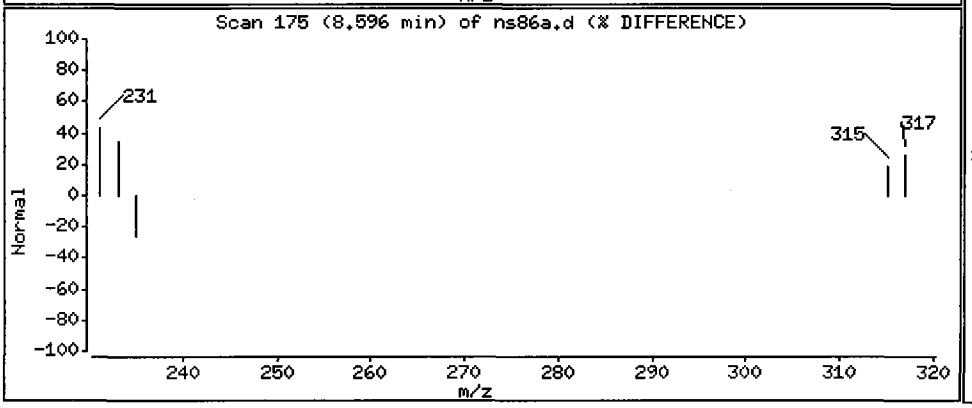












Data File: /chem3/nt1.i/20081008.b/ns86a.d

Date : 08-OCT-2008 17:33

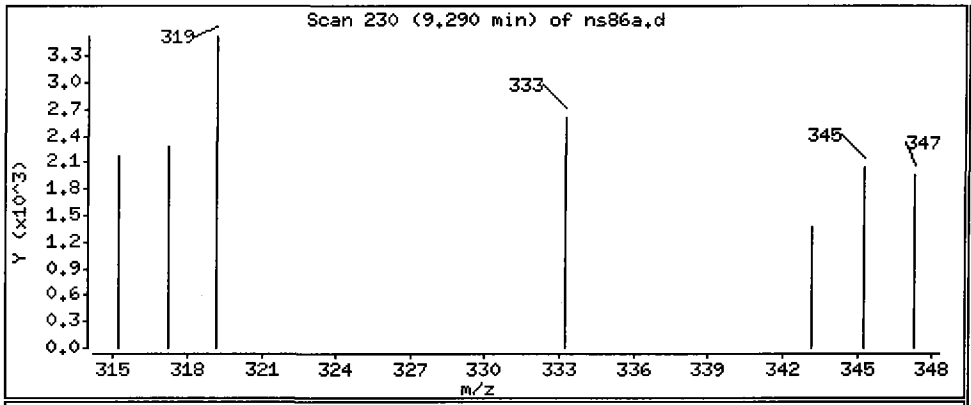
Client ID: EB-SE01-A-081003 Instrument: nt1.i

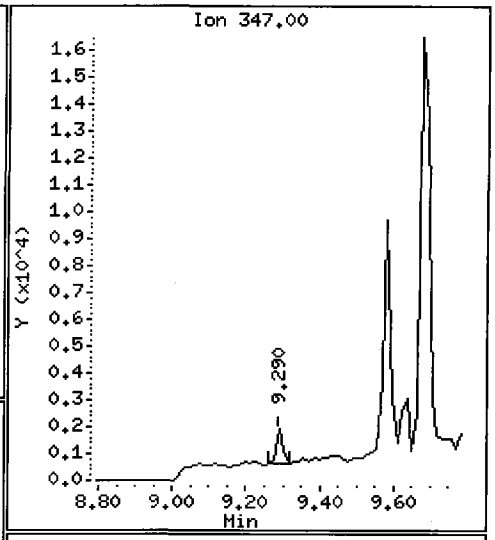
Sample Info: NS86A

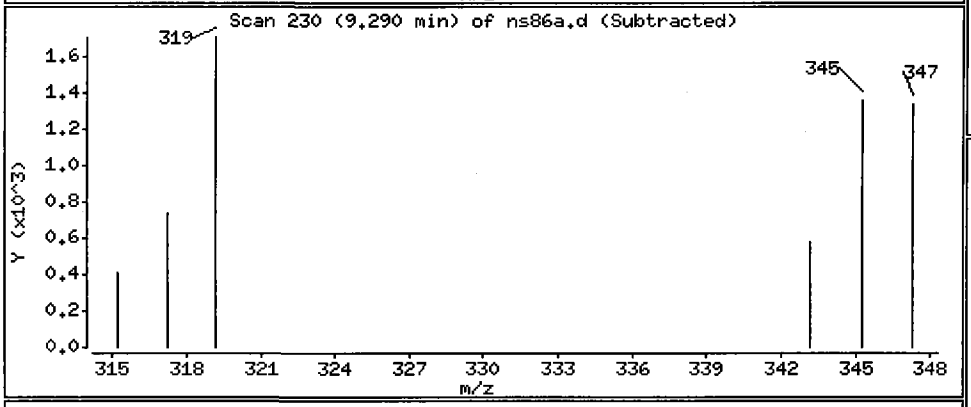
Purge Volume: 100.0 Operator: VTS

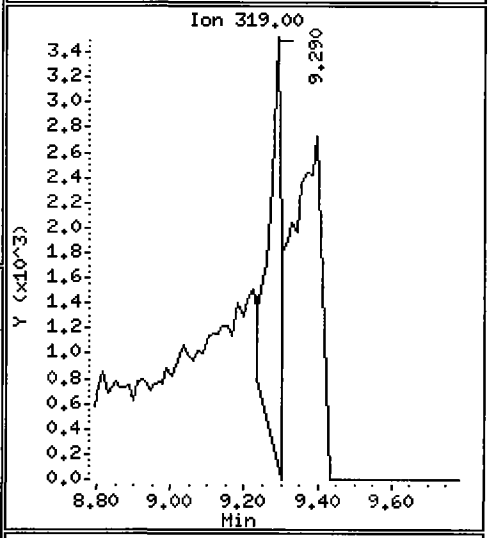
Column phase: ZB-5 Column diameter: 0.25

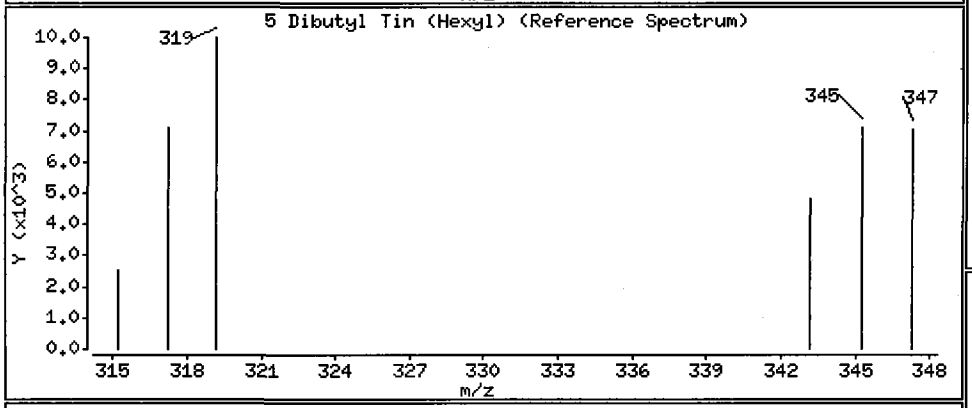
5 Dibutyl Tin (Hexyl) Concentration: 0.02711 ug/L

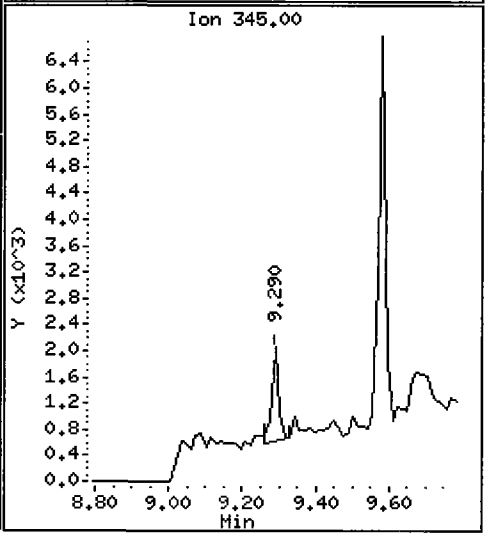


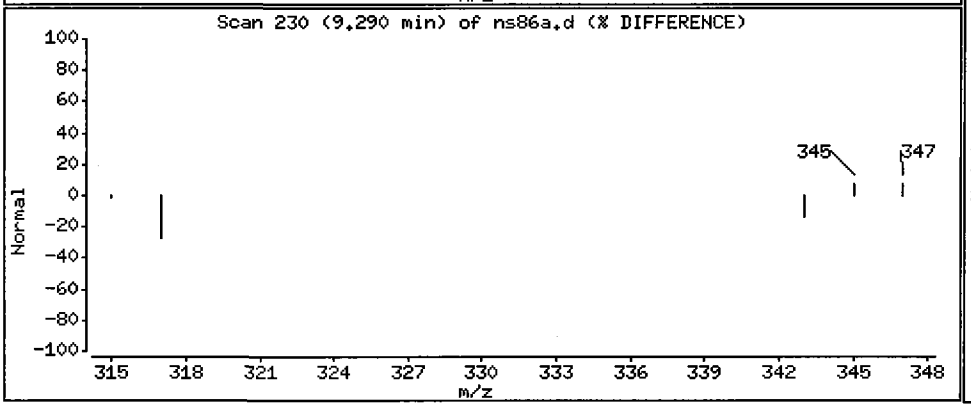












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: EB-SEO2-A-081003
SAMPLE

Lab Sample ID: NS86B
LIMS ID: 08-26451
Matrix: Pore Water
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS86-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/06/08
Date Received: 10/06/08

Date Extracted: 10/07/08
Date Analyzed: 10/09/08 08:55
Instrument/Analyst: NT1/VTS

Sample Amount: 100 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyl Tin Ion	0.008	0.10	
DBT_ION	Dibutyl Tin Ion	0.012	0.033	
BT_ION	Butyl Tin Ion	0.008	0.026	

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	69.4%
Tripentyl Tin Chloride	81.7%

Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081009.b/ns86b.d
Lab Smp Id: NS86B Client Smp ID: EB-SEO2-A-081003
Inj Date : 09-OCT-2008 08:55
Operator : VTS Inst ID: nt1.i
Smp Info : NS86B
Misc Info : 08-26451
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081009.b/pw3ul.m
Meth Date : 09-Oct-2008 09:02 van Quant Type: ISTD
Cal Date : 08-OCT-2008 16:34 Cal File: ic1008f.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	0.50000	Final Extract Volume (mL)
Vo	100.00000	Volume Extracted (L)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	FINAL (ug/L)
$	1 Tripropyl Tin (Hexyl)	291	7.619	7.620	(0.824)	10247	20.4171	0.1021
	2 Tetrabutyl Tin	289	Compound Not Detected.					
	3 Tributyl Tin (Hexyl)	319	8.607	8.597	(0.931)	11001	26.2331	0.1312
*	4 Tetrapentyl Tin	333	9.249	9.248	(1.000)	130867	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.289	9.288	(0.915)	2565	11.3561	0.05678
$	6 Tripentyl Tin (Hexyl)	347	9.583	9.582	(0.944)	7974	23.1951	0.1160
	7 Butyl Tin (Hexyl)	347	9.920	9.919	(0.977)	4963	12.8975	0.06449
*	8 p-Terphenyl-d14	244	10.149	10.148	(1.000)	110880	20.0000	

VTS 10-9-2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ns86b.d
Lab Smp Id: NS86B
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081009.b/pw3ul.m
Misc Info: 08-26451

Calibration Date: 09-OCT-2008
Calibration Time: 08:32
Client Smp ID: EB-SEO2-A-081003
Level: LOW
Sample Type: Pore Water

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	159620	79810	319240	130867	-18.01
8 p-Terphenyl-d14	143858	71929	287716	110880	-22.92

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	0.01
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: LIQUID
Lab Smp Id: NS86B
Level: LOW
Data Type: MS DATA
SpikeList File: PW.spk
Sublist File: PW.sub
Method File: /chem3/nt1.i/20081009.b/pw3ul.m
Misc Info: 08-26451

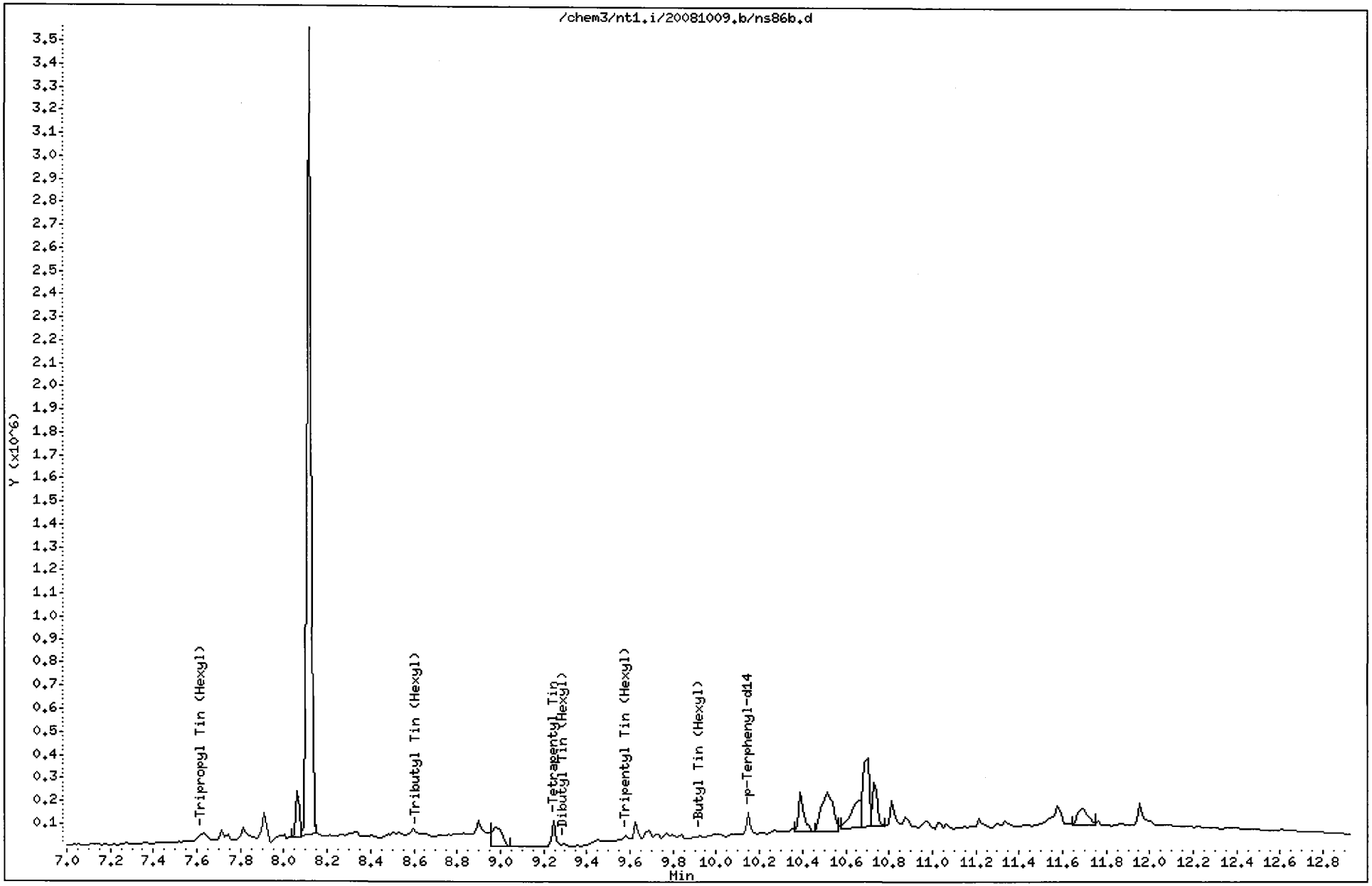
Client SDG: NS86
Fraction: SV
Client Smp ID: EB-SEO2-A-081003
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 1 Tripropyl Tin (Hex	0.1250	0.1021	81.67	30-108
$ 6 Tripentyl Tin (Hex	0.1250	0.1160	92.78	23-97

Data File: /chem3/nt1.i/20081009.b/ns86b.d
Date : 09-OCT-2008 08:55
Client ID: EB-SE02-A-081003
Sample Info: NS86B
Purge Volume: 100.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

00048



Data File: /chem3/nt1.i/20081009.b/ns86b.d

Date : 09-OCT-2008 08:55

Client ID: EB-SE02-A-081003

Instrument: nt1.i

Sample Info: NS86B

Purge Volume: 100.0

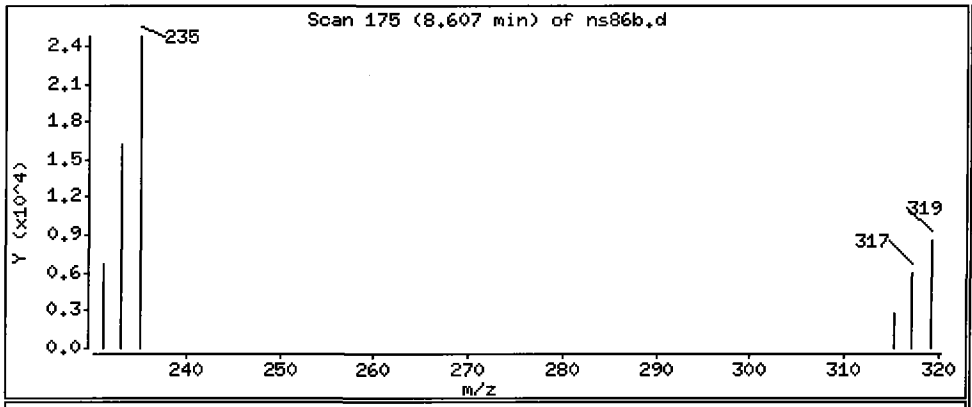
Operator: VTS

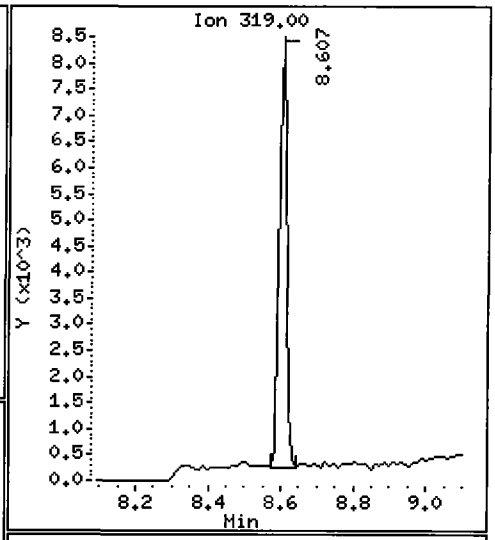
Column phase: ZB-5

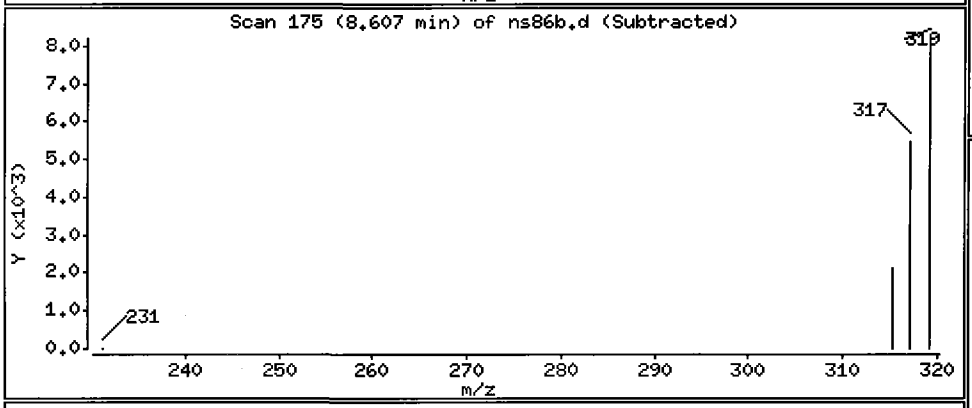
Column diameter: 0.25

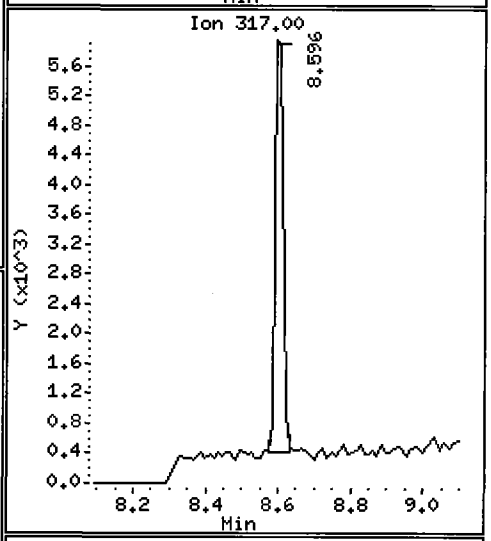
3 Tributyl Tin (Hexyl)

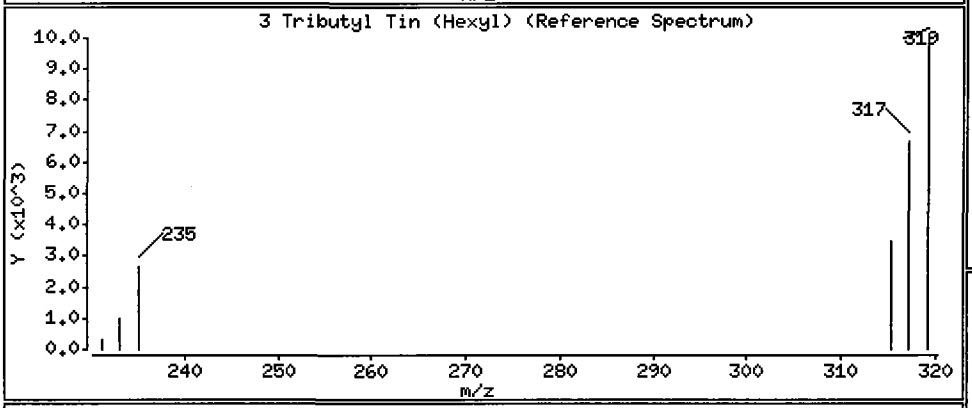
Concentration: 0.1312 ug/L

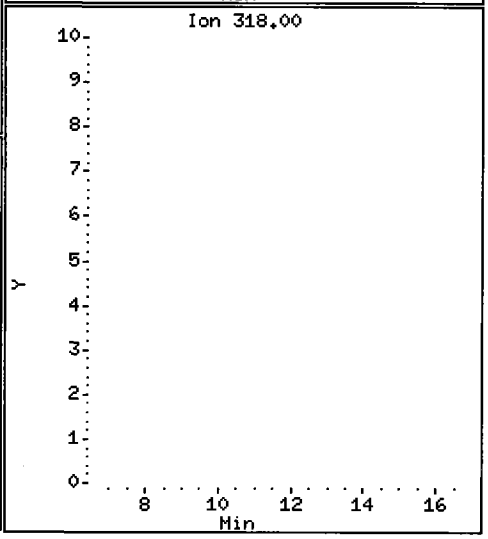


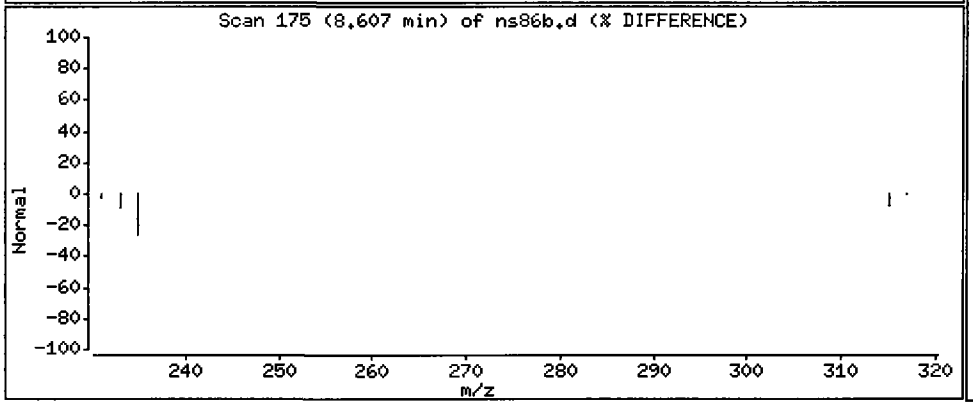












Data File: /chem3/nt1.i/20081009.b/ns86b.d

Date : 09-OCT-2008 08:55

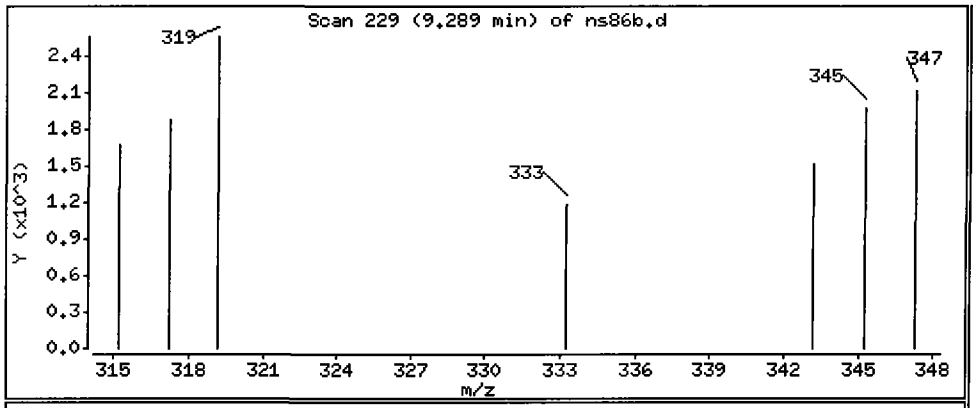
Client ID: EB-SE02-A-081003 Instrument: nt1.i

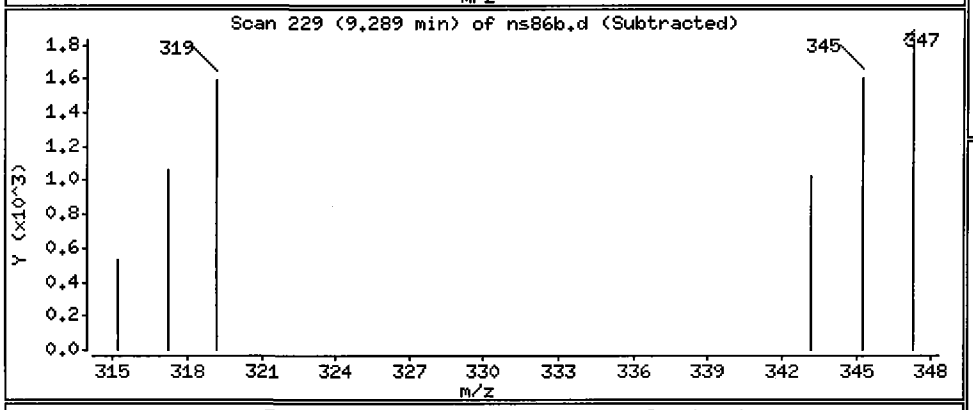
Sample Info: NS86B

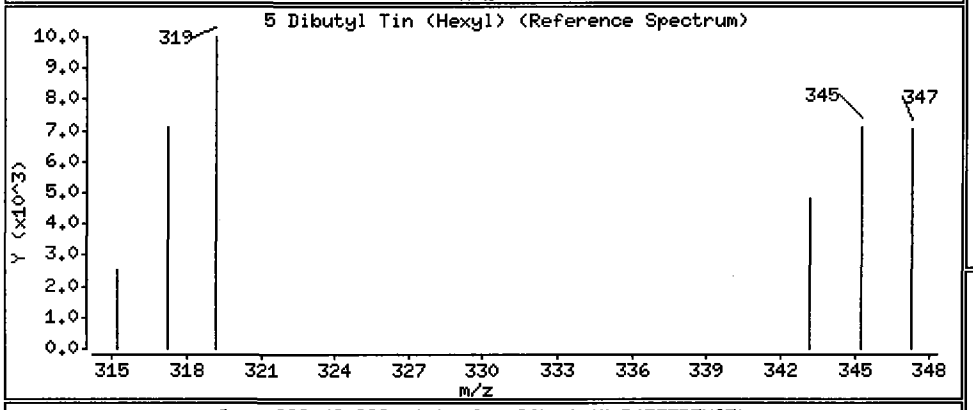
Purge Volume: 100.0 Operator: VTS

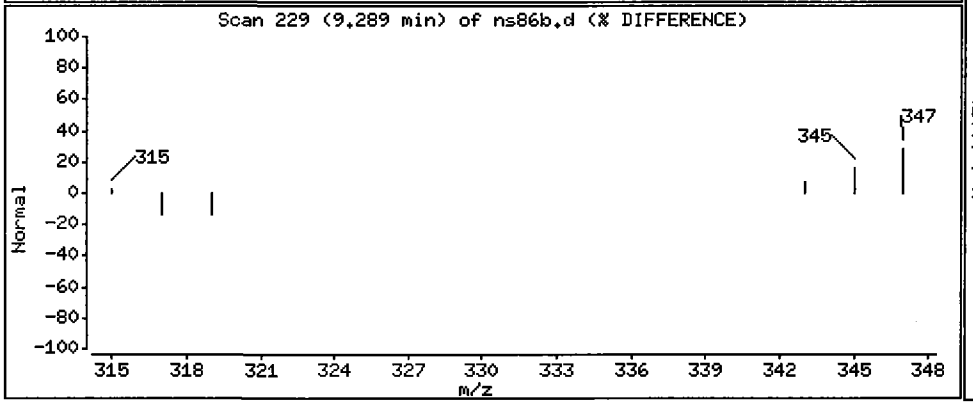
Column phase: ZB-5 Column diameter: 0.25

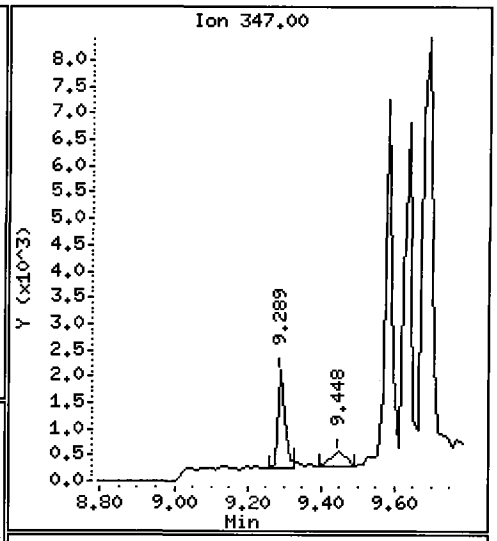
5 Dibutyl Tin (Hexyl) Concentration: 0.05678 ug/L

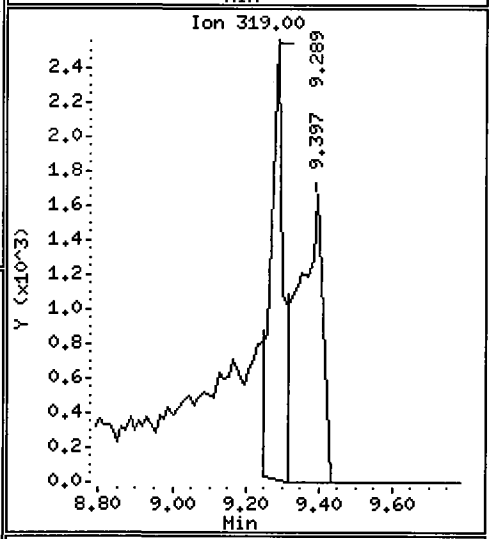


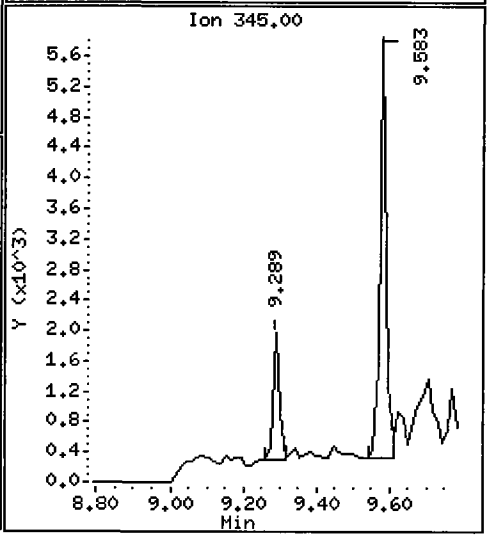












Data File: /chem3/nt1.i/20081009.b/ns86b.d

Date : 09-OCT-2008 08:55

Client ID: EB-SEO2-A-081003

Instrument: nt1.i

Sample Info: NS86B

Purge Volume: 100.0

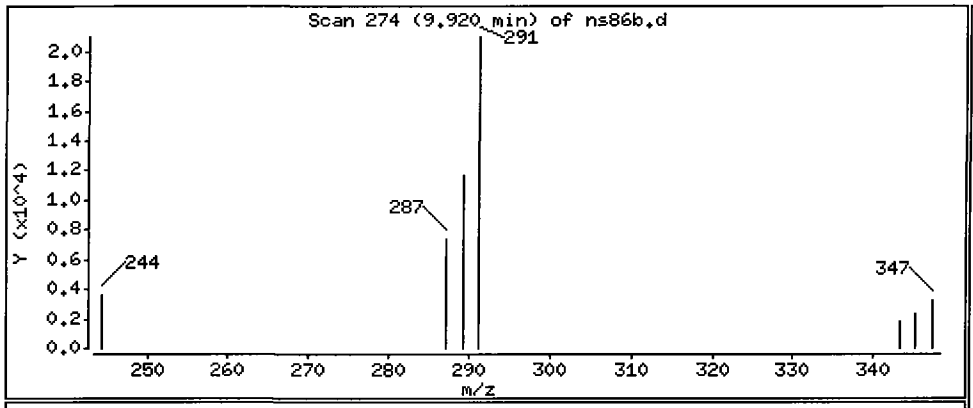
Operator: VTS

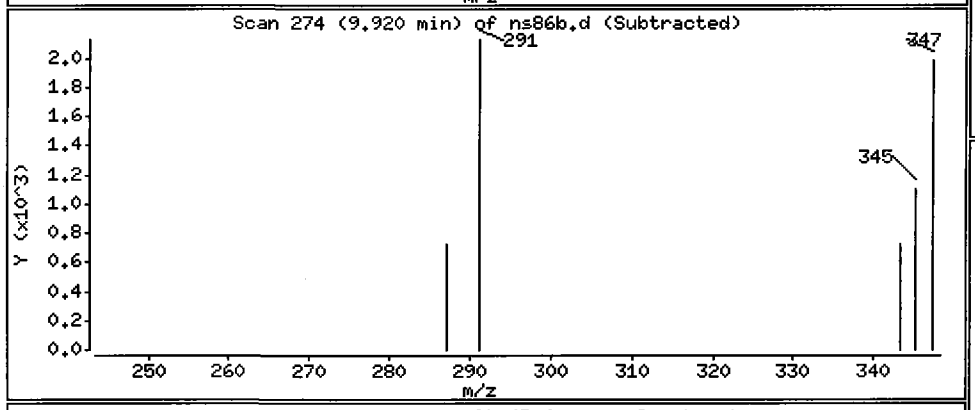
Column phase: ZB-5

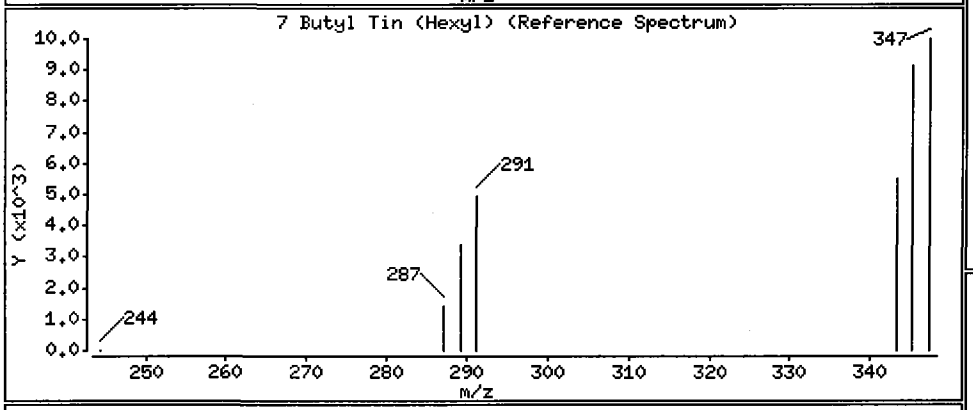
Column diameter: 0.25

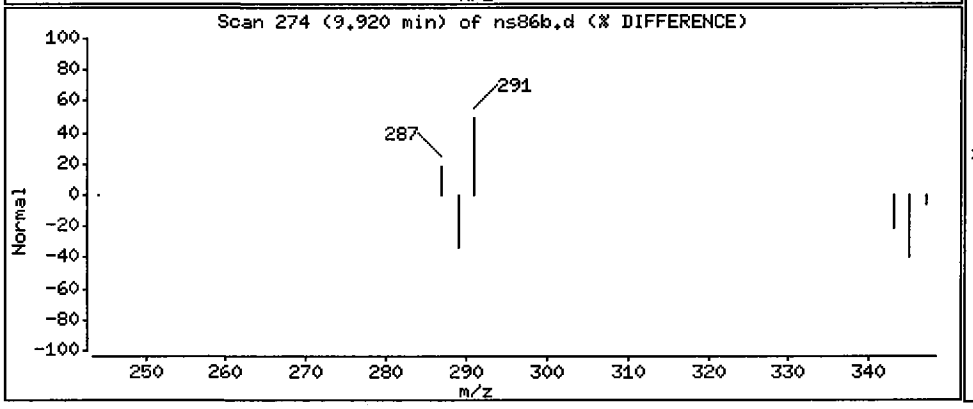
7 Butyl Tin (Hexyl)

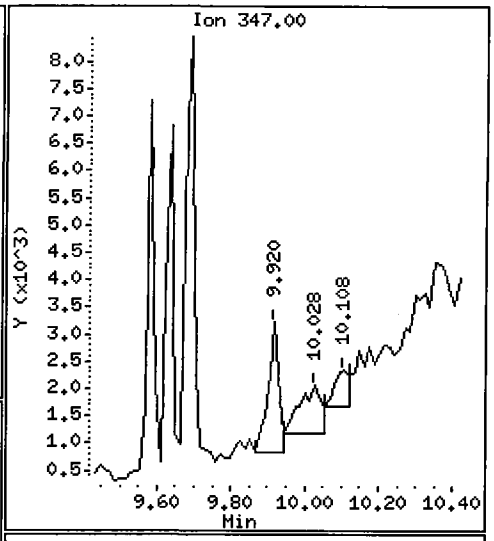
Concentration: 0.06449 ug/L

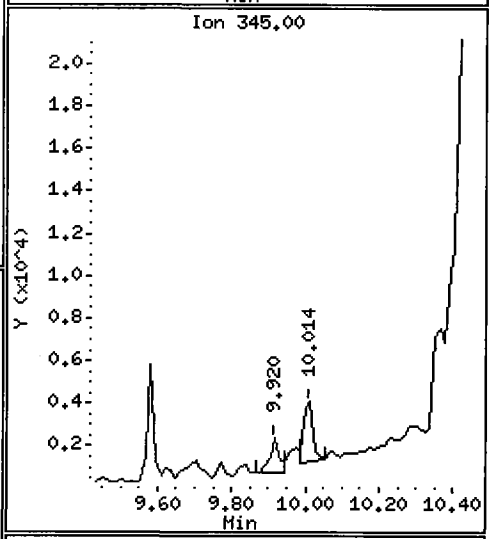


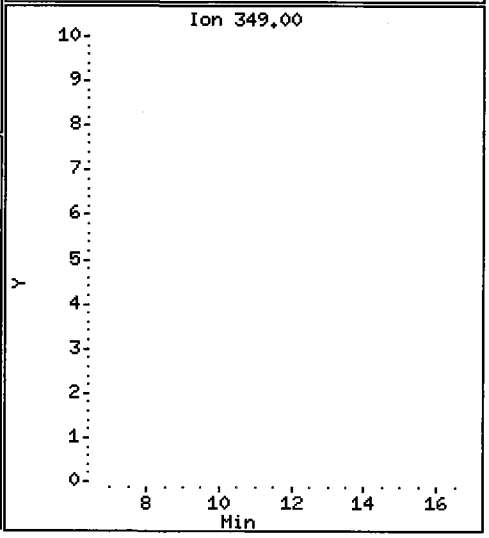












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: EB-SEO3-A-081003
SAMPLE

Lab Sample ID: NS86C
LIMS ID: 08-26452
Matrix: Pore Water
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS86-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/06/08
Date Received: 10/06/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 18:52
Instrument/Analyst: NT1/VTS

Sample Amount: 100 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyl Tin Ion	0.008	0.74	E
DBT_ION	Dibutyl Tin Ion	0.012	0.16	
BT_ION	Butyl Tin Ion	0.008	0.037	

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	67.4%
Tripentyl Tin Chloride	63.8%

Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ns86c.d
Lab Smp Id: NS86C Client Smp ID: EB-SEO3-A-081003
Inj Date : 08-OCT-2008 18:52
Operator : VTS Inst ID: nt1.i
Smp Info : NS86C
Misc Info : 08-26452
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 07:44 van Quant Type: ISTD
Cal Date : 08-OCT-2008 16:34 Cal File: ic1008f.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	0.50000	Final Extract Volume (mL)
Vo	100.00000	Volume Extracted (L)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ug/L)
$ 1 Tripropyl Tin (Hexyl)	291	7.617	7.617	(0.824)	12523	19.7967	0.09898
2 Tetrabutyl Tin	289	Compound Not Detected.					
3 Tributyl Tin (Hexyl)	319	8.607	8.607	(0.931)	101282	191.619	0.9581 E
* 4 Tetrapentyl Tin	333	9.248	9.248	(1.000)	164946	200.000	
5 Dibutyl Tin (Hexyl)	347	9.289	9.289	(0.915)	16543	53.7492	0.2687
$ 6 Tripentyl Tin (Hexyl)	347	9.582	9.583	(0.944)	8500	18.1450	0.09072
7 Butyl Tin (Hexyl)	347	9.919	9.920	(0.977)	9412	17.9499	0.08975
* 8 p-Terphenyl-d14	244	10.148	10.149	(1.000)	151090	20.0000	

VTS 10-9-2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ns86c.d
Lab Smp Id: NS86C
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: 08-26452

Calibration Date: 08-OCT-2008
Calibration Time: 14:49
Client Smp ID: EB-SEO3-A-081003
Level: LOW
Sample Type: Pore Water

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	164946	-25.68
8 p-Terphenyl-d14	218922	109461	437844	151090	-30.98

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	0.00
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

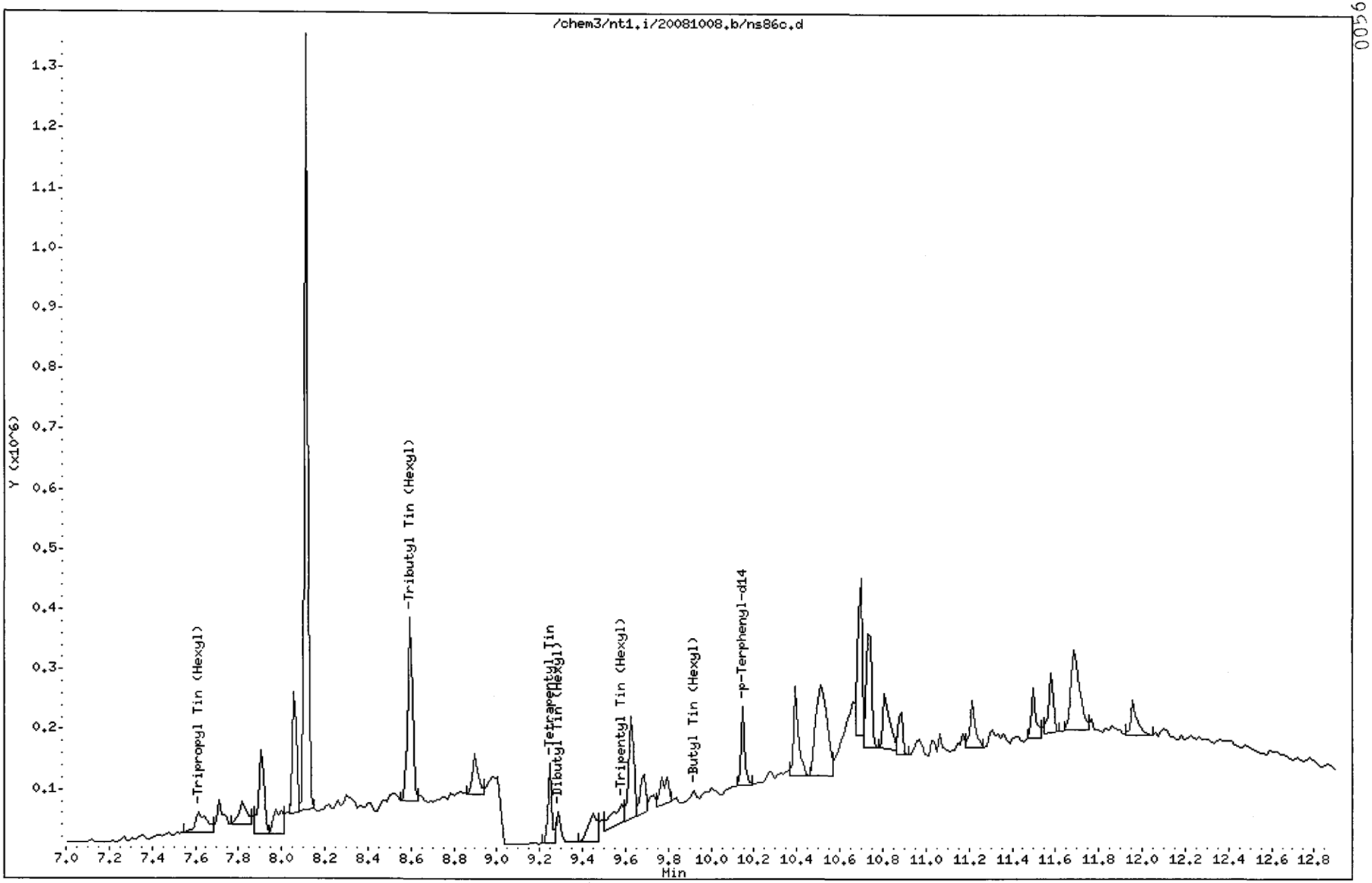
Client Name: Anchor
Sample Matrix: LIQUID
Lab Smp Id: NS86C
Level: LOW
Data Type: MS DATA
SpikeList File: PW.spk
Sublist File: PW.sub
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: 08-26452

Client SDG: NS86
Fraction: SV
Client Smp ID: EB-SEO3-A-081003
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 1 Tripropyl Tin (Hex	0.1250	0.09898	79.19	30-108
$ 6 Tripentyl Tin (Hex	0.1250	0.09072	72.58	23-97

Data File: /chem3/nt1.i/20081008.b/ns86c.d
Date : 08-OCT-2008 18:52
Client ID: EB-SE03-A-081003
Sample Info: NS86C
Purge Volume: 100.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



0056

Data File: /chem3/nt1.i/20081008.b/ns86c.d

Date : 08-OCT-2008 18:52

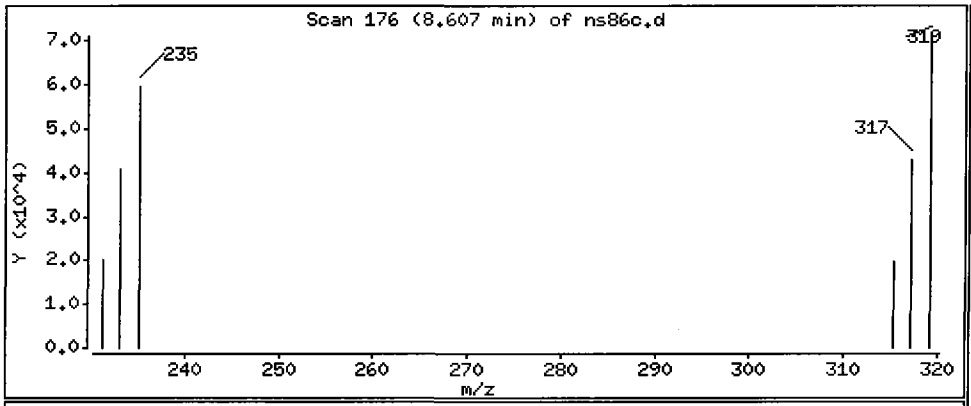
Client ID: EB-SE03-A-081003 Instrument: nt1.i

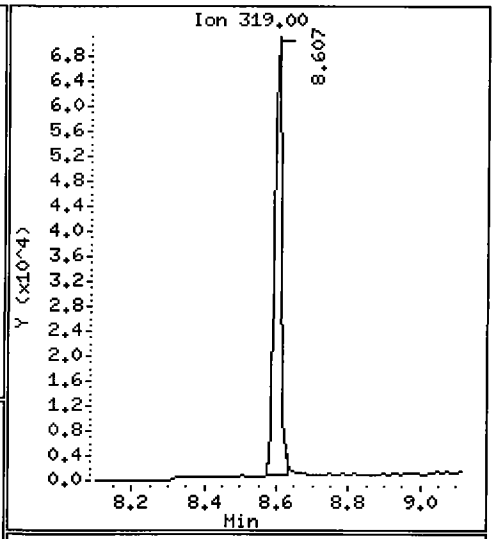
Sample Info: NS86C

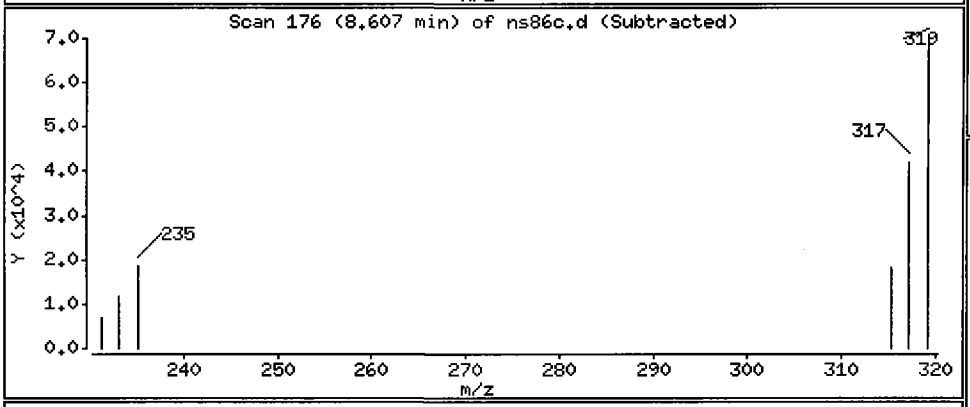
Purge Volume: 100.0 Operator: VTS

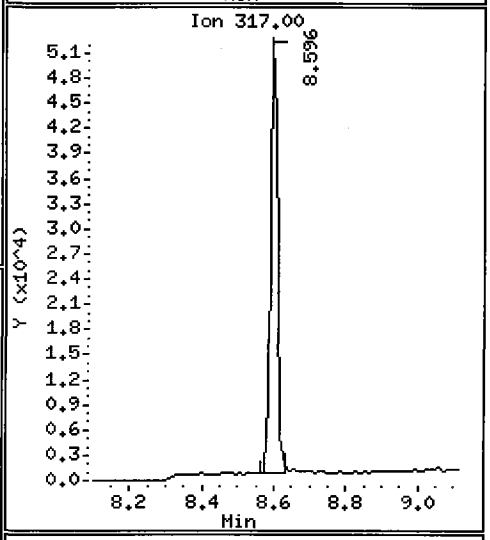
Column phase: ZB-5 Column diameter: 0.25

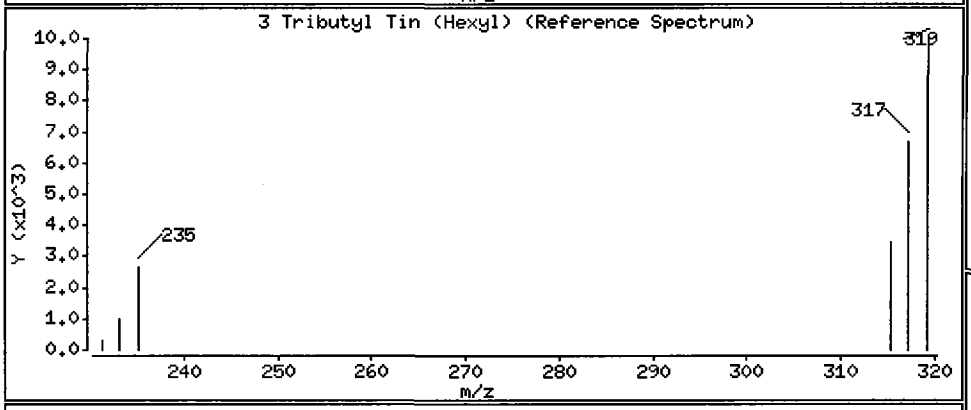
3 Tributyl Tin (Hexyl) Concentration: 0.9581 ug/L

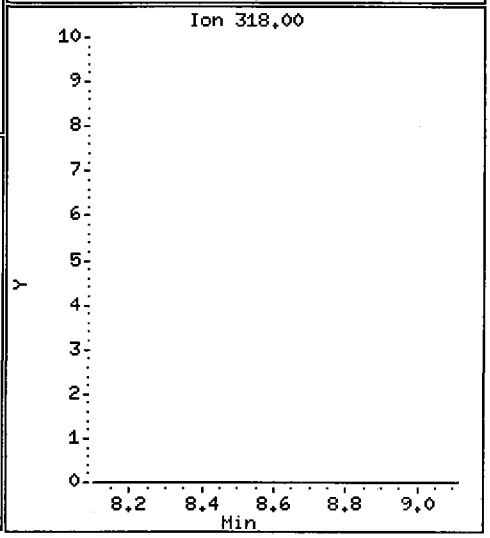


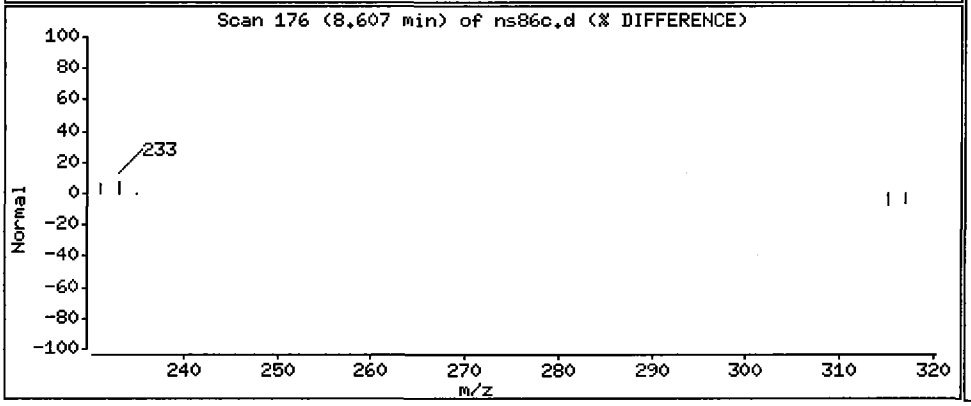












Data File: /chem3/nt1.i/20081008.b/ns86c.d

Date : 08-OCT-2008 18:52

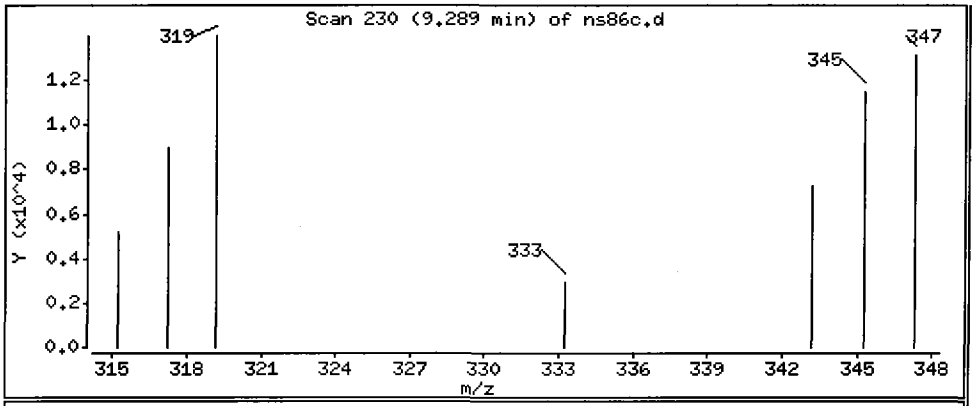
Client ID: EB-SE03-A-081003 Instrument: nt1.i

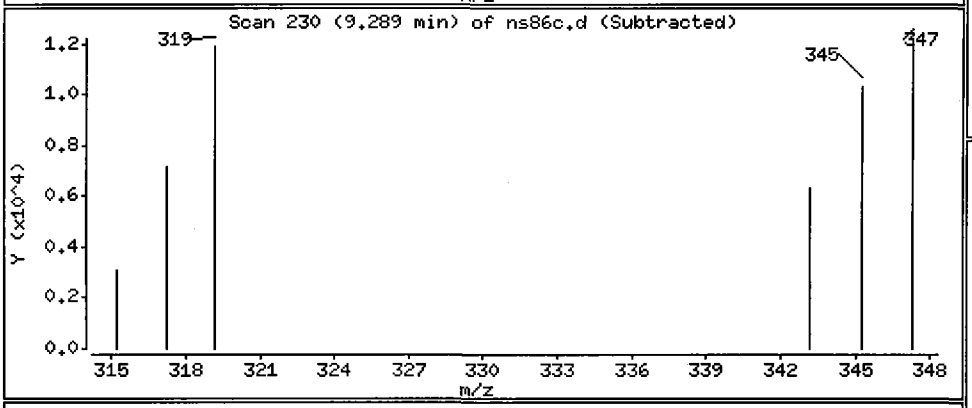
Sample Info: NS86C

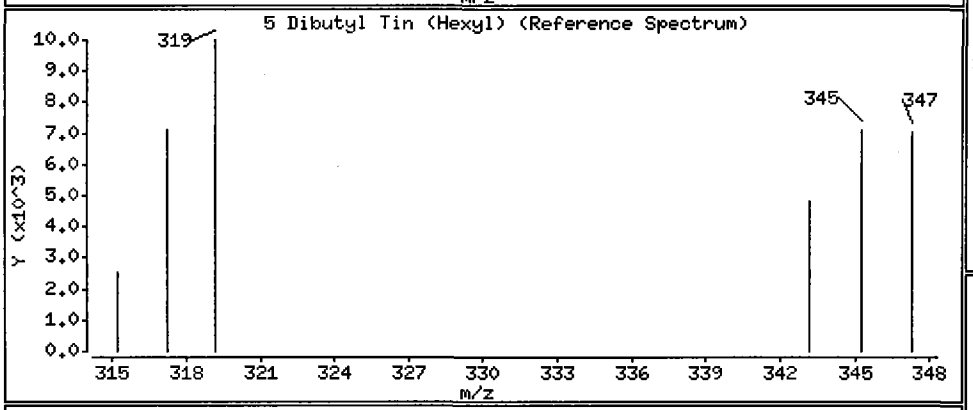
Purge Volume: 100.0 Operator: VTS

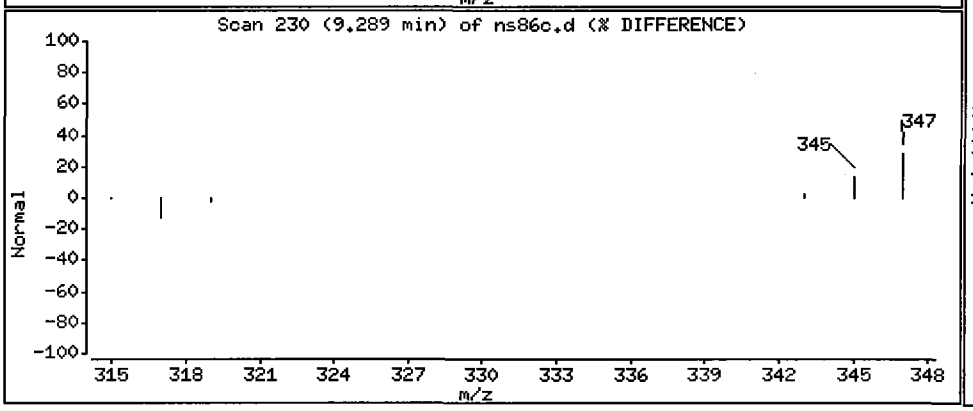
Column phase: ZB-5 Column diameter: 0.25

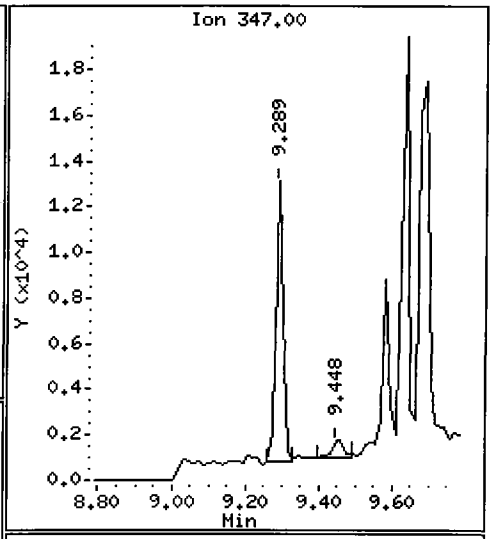
5 Dibutyl Tin (Hexyl) Concentration: 0.2687 ug/L

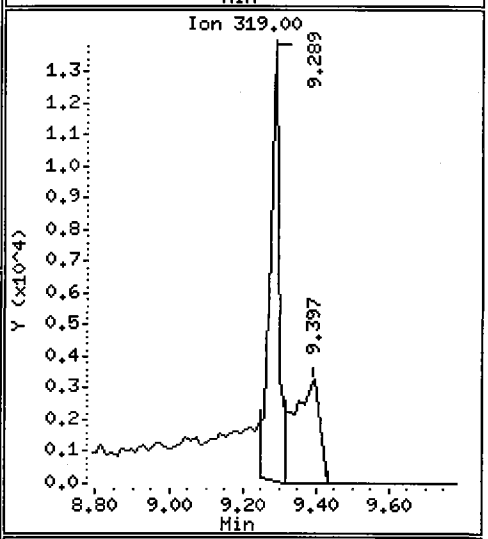


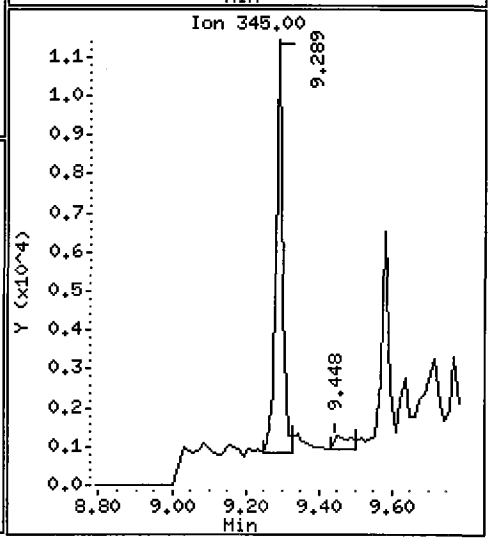












Data File: /chem3/nt1.i/20081008.b/ns86c.d

Date : 08-OCT-2008 18:52

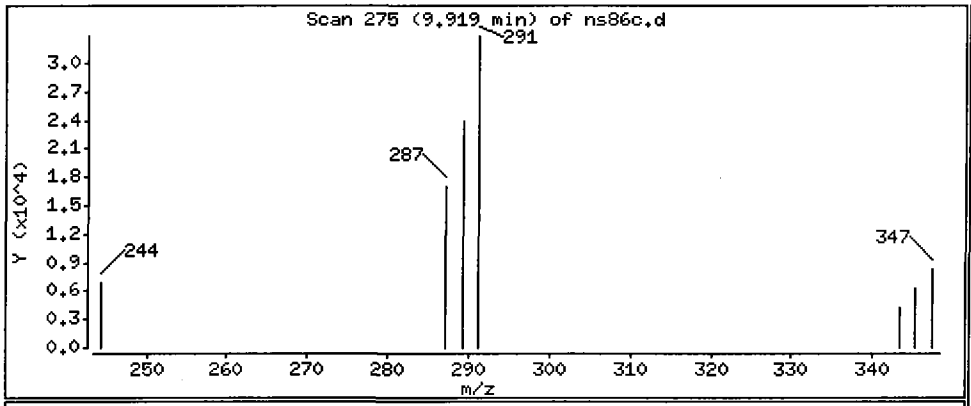
Client ID: EB-SE03-A-081003 Instrument: nt1.i

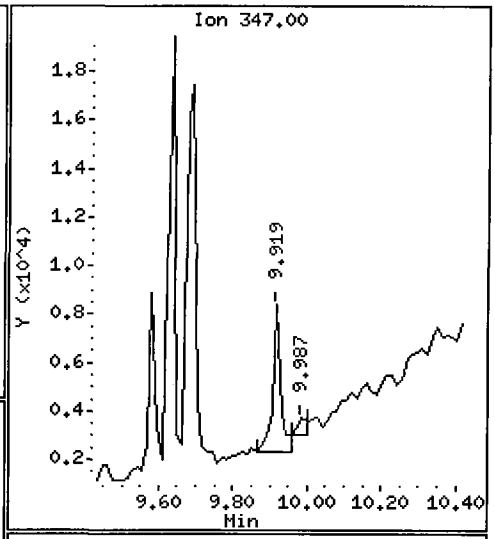
Sample Info: NS86C

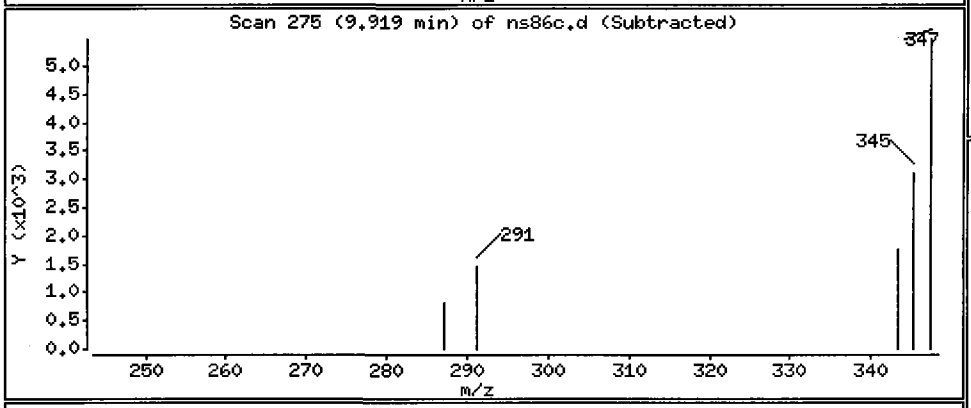
Purge Volume: 100.0 Operator: VTS

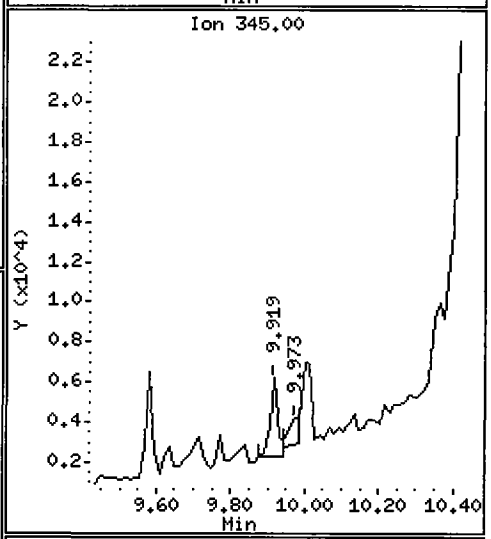
Column phase: ZB-5 Column diameter: 0.25

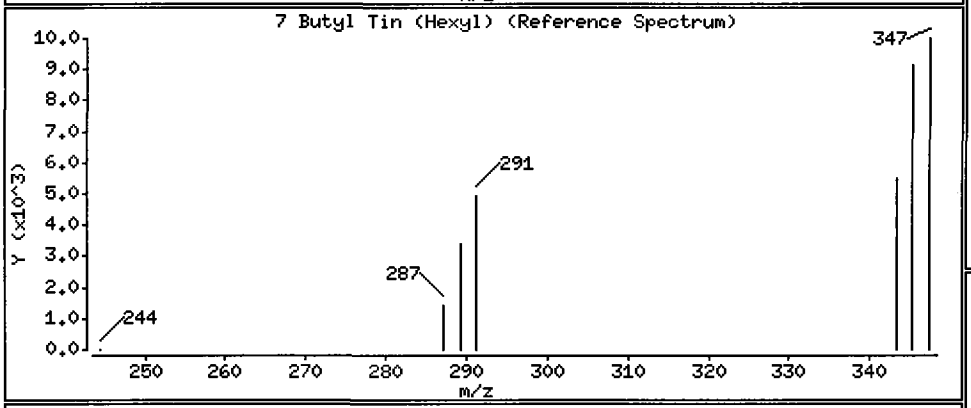
7 Butyl Tin (Hexyl) Concentration: 0.08975 ug/L

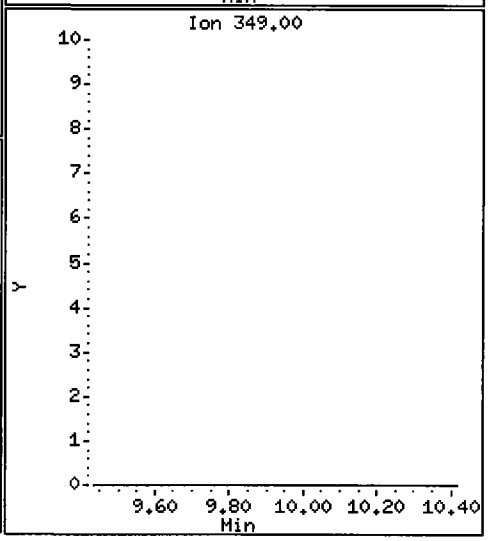


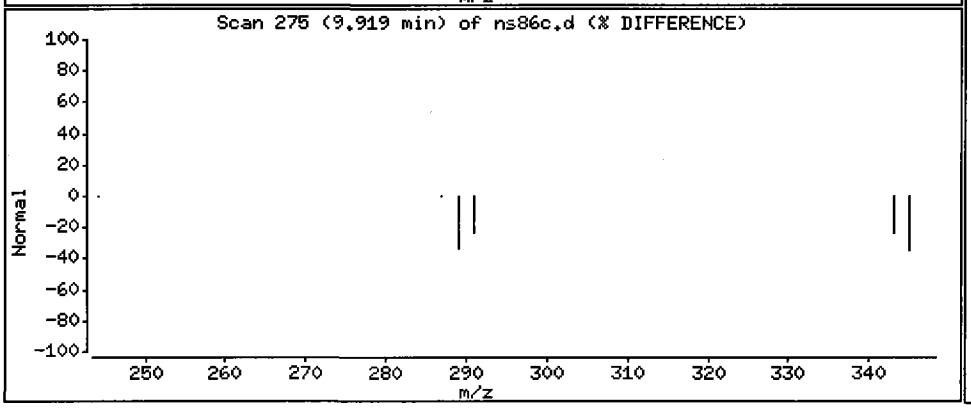












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: EB-SE03-A-081003
DILUTION

Lab Sample ID: NS86C
LIMS ID: 08-26452
Matrix: Pore Water
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS86-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/06/08
Date Received: 10/06/08

Date Extracted: 10/07/08
Date Analyzed: 10/09/08 09:14
Instrument/Analyst: NT1/VTS

Sample Amount: 100 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 3.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyl Tin Ion	0.023	0.64	
DBT_ION	Dibutyl Tin Ion	0.035	0.15	
BT_ION	Butyl Tin Ion	0.024	0.046	

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	46.5%
Tripentyl Tin Chloride	59.5%

Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081009.b/ns86cdl.d
Lab Smp Id: NS86C Client Smp ID: EB-SEO3-A-081003
Inj Date : 09-OCT-2008 09:14
Operator : VTS Inst ID: nt1.i
Smp Info : NS86C,3
Misc Info : 08-26452
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081009.b/pw3ul.m
Meth Date : 09-Oct-2008 09:02 van Quant Type: ISTD
Cal Date : 08-OCT-2008 16:34 Cal File: ic1008f.d
Als bottle: 2
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	3.00000	Dilution Factor
Vt	0.50000	Final Extract Volume (mL)
Vo	0.04000	Volume Extracted (L)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	FINAL (ug/L)
$ 1 Tripropyl Tin (Hexyl)	291	7.618	7.620	(0.824)	1857	4.55801	170.9
2 Tetrabutyl Tin	289	Compound Not Detected.					
3 Tributyl Tin (Hexyl)	319	8.609	8.597	(0.931)	18813	✓55.2639	2072
* 4 Tetrapentyl Tin	333	9.248	9.248	(1.000)	106234	200.000	
5 Dibutyl Tin (Hexyl)	347	9.288	9.288	(0.915)	3413	✓17.7058	664.0
$ 6 Tripentyl Tin (Hexyl)	347	9.582	9.582	(0.944)	1653	5.63419	211.3
7 Butyl Tin (Hexyl)	347	9.919	9.919	(0.977)	2445	✓7.44526	279.2
* 8 p-Terphenyl-d14	244	10.148	10.148	(1.000)	94627	20.0000	

VTS
10.9.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ns86cdl.d
Lab Smp Id: NS86C
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081009.b/pw3ul.m
Misc Info: 08-26452

Calibration Date: 09-OCT-2008
Calibration Time: 08:32
Client Smp ID: EB-SEO3-A-081003
Level: LOW
Sample Type: Pore Water

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	159620	79810	319240	106234	-33.45
8 p-Terphenyl-d14	143858	71929	287716	94627	-34.22

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	0.00
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: LIQUID
Lab Smp Id: NS86C
Level: LOW
Data Type: MS DATA
SpikeList File: PW.spk
Sublist File: PW.sub
Method File: /chem3/nt1.i/20081009.b/pw3ul.m
Misc Info: 08-26452

Client SDG: NS86
Fraction: SV
Client Smp ID: EB-SEO3-A-081003
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

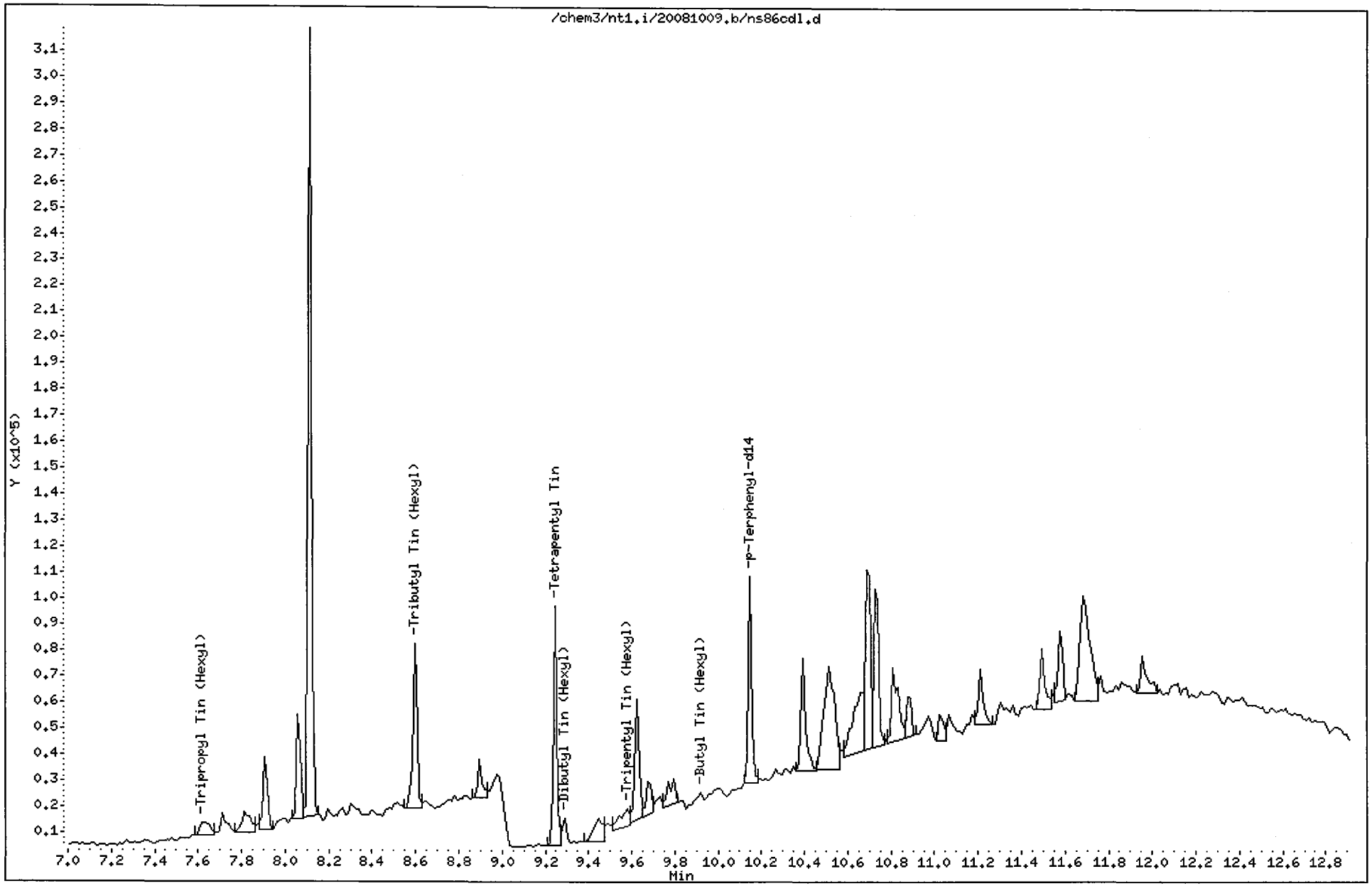
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 1 Tripropyl Tin (Hex	312.5	170.9	54.70	30-108
$ 6 Tripentyl Tin (Hex	312.5	211.3	67.61	23-97

Data File: /chem3/nt1.i/20081009.b/ns86cdl.d
Date : 09-OCT-2008 09:14
Client ID: EB-SE03-A-081003
Sample Info: NS86C,3
Purge Volume: 0.0
Column phase: ZB-5

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

0064



Data File: /chem3/nt1.i/20081009.b/ns86cdl.d

Date : 09-OCT-2008 09:14

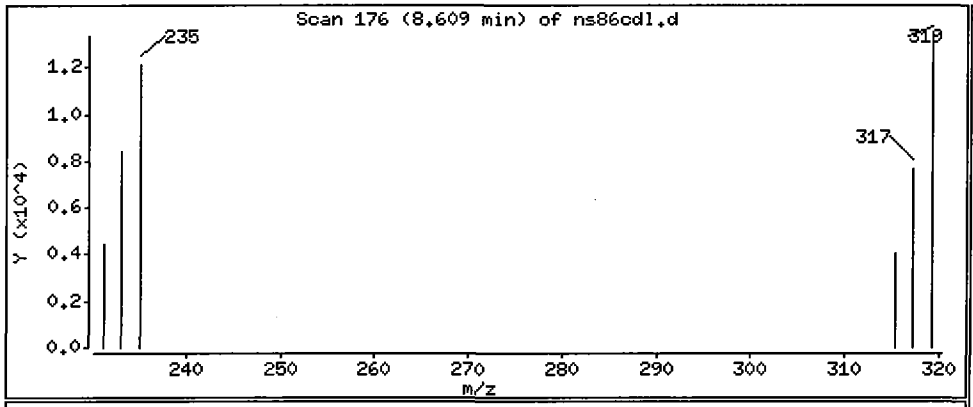
Client ID: EB-SE03-A-081003 Instrument: nt1.i

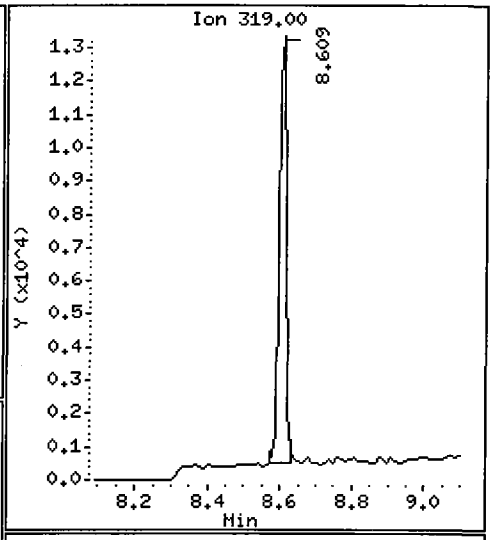
Sample Info: NS86C,3

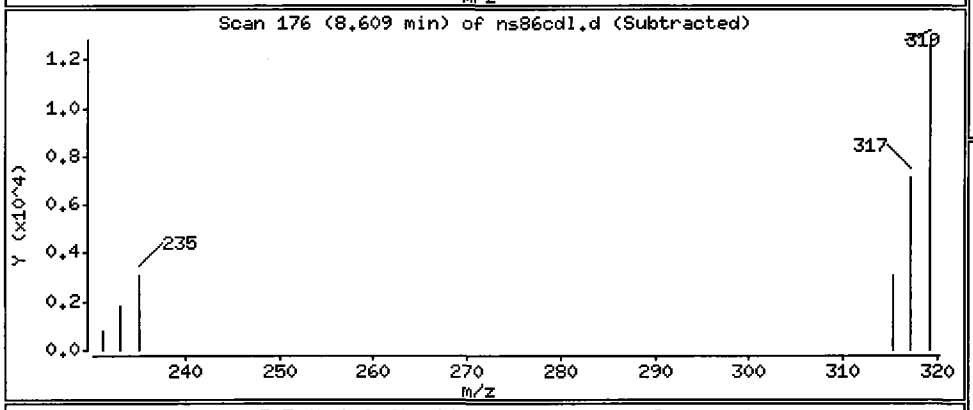
Purge Volume: 0.0 Operator: VTS

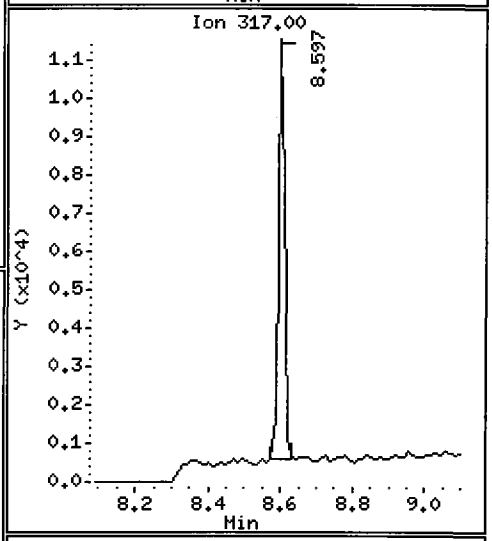
Column phase: ZB-5 Column diameter: 0.25

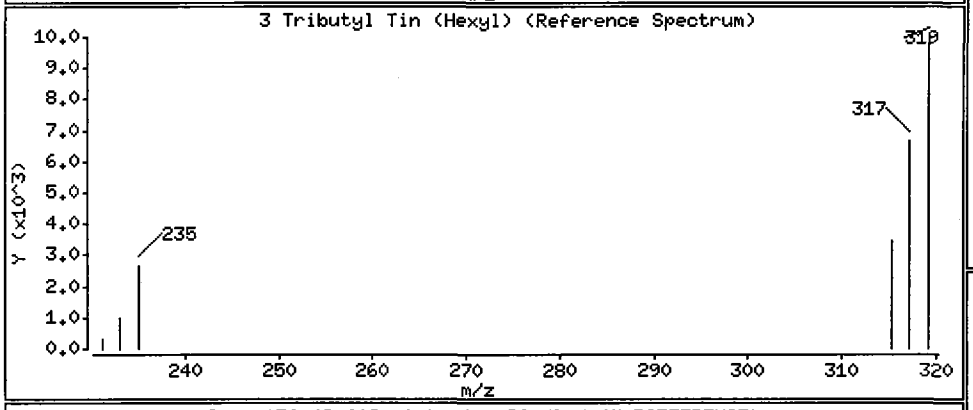
3 Tributyl Tin (Hexyl) Concentration: 2072 ug/L

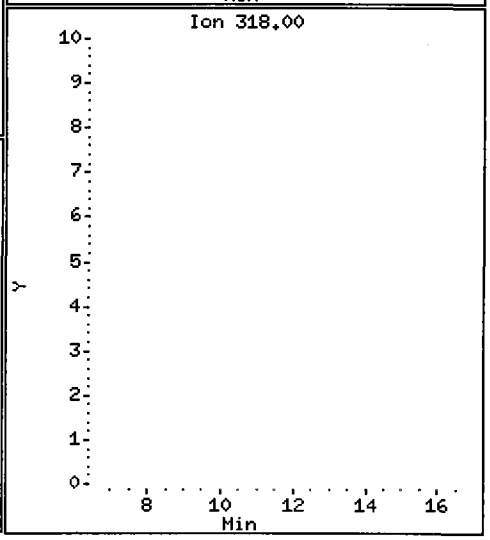


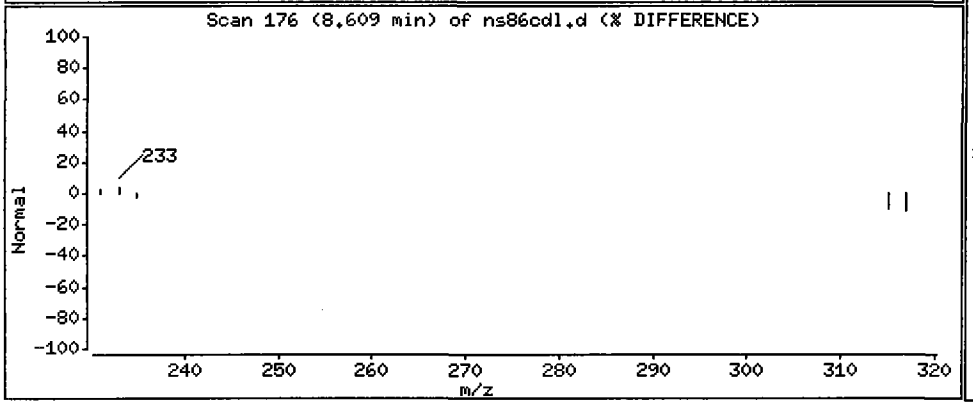












Data File: /chem3/nt1.i/20081009.b/ns86cdl.d

Date : 09-OCT-2008 09:14

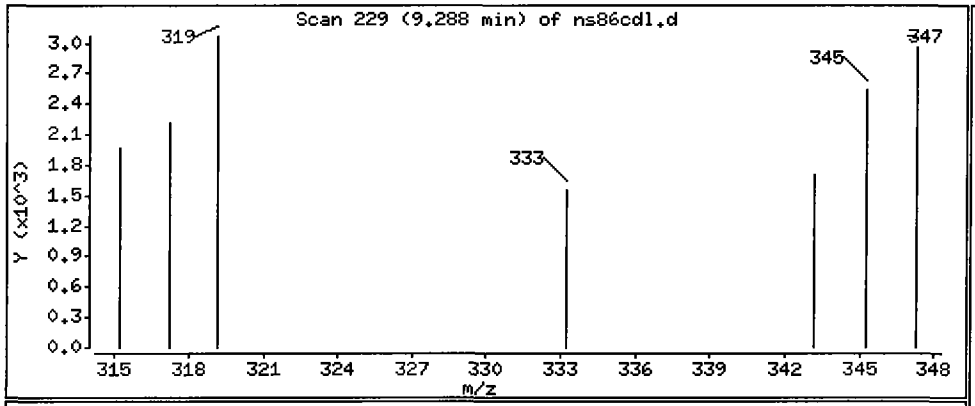
Client ID: EB-SE03-A-081003 Instrument: nt1.i

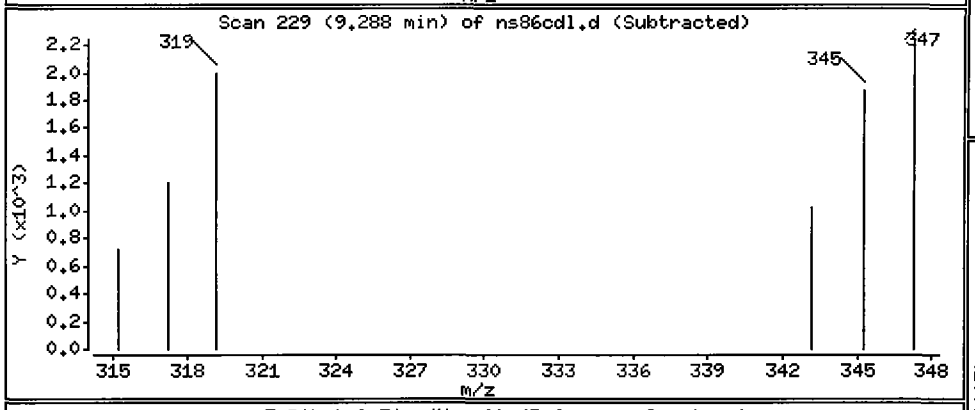
Sample Info: NS86C,3

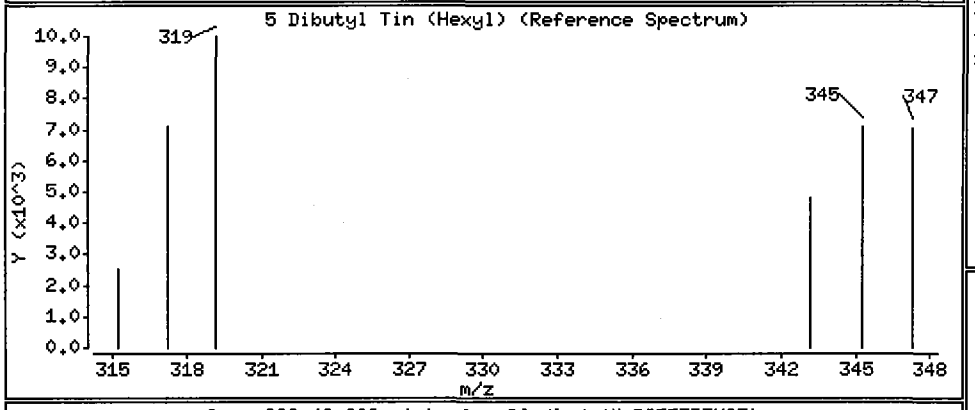
Purge Volume: 0.0 Operator: VTS

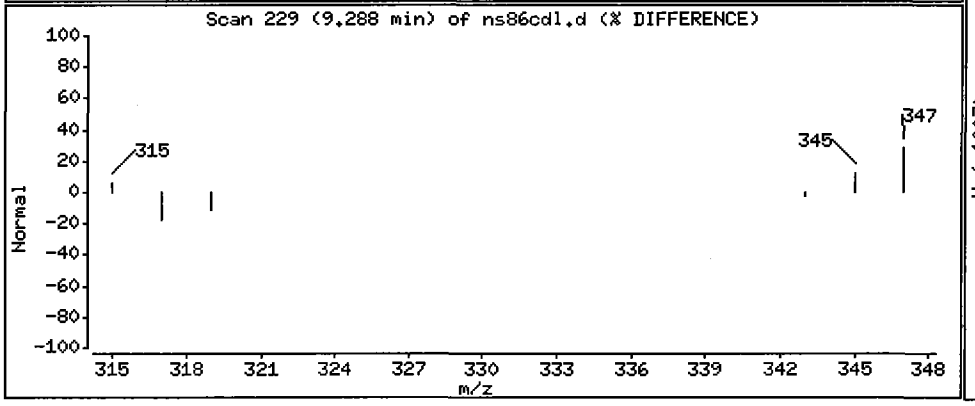
Column phase: ZB-5 Column diameter: 0.25

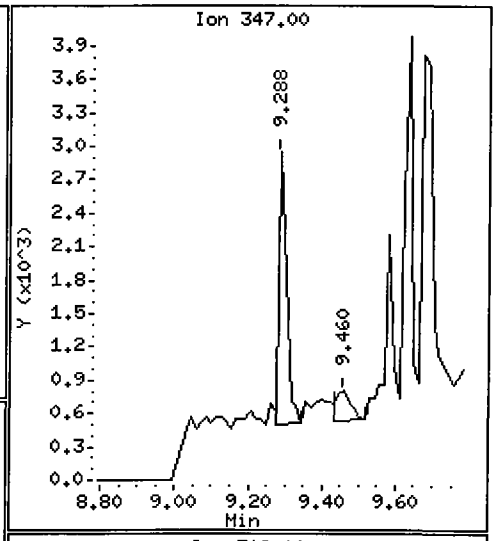
5 Dibutyl Tin (Hexyl) Concentration: 664.0 ug/L

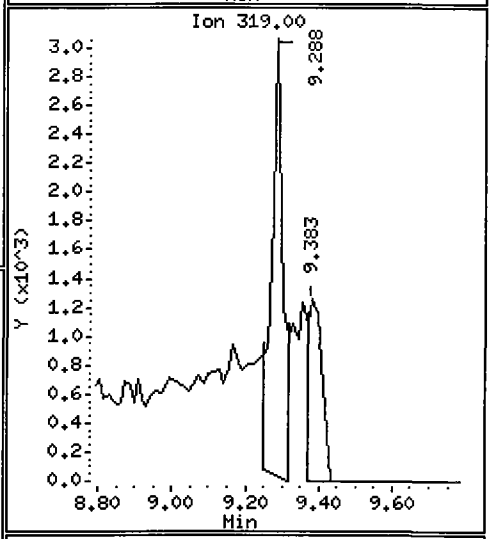


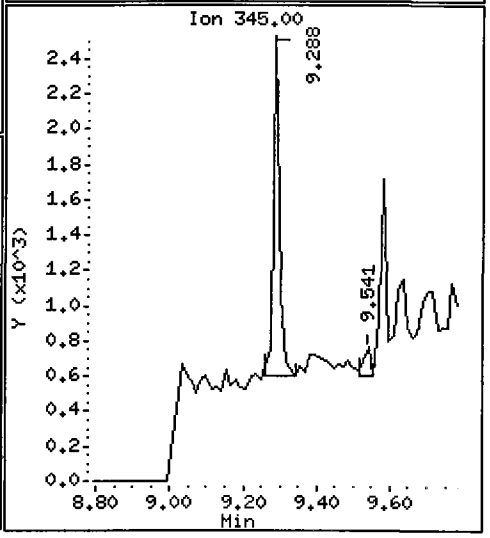












Data File: /chem3/nt1.i/20081009.b/ns86cdl.d

Date : 09-OCT-2008 09:14

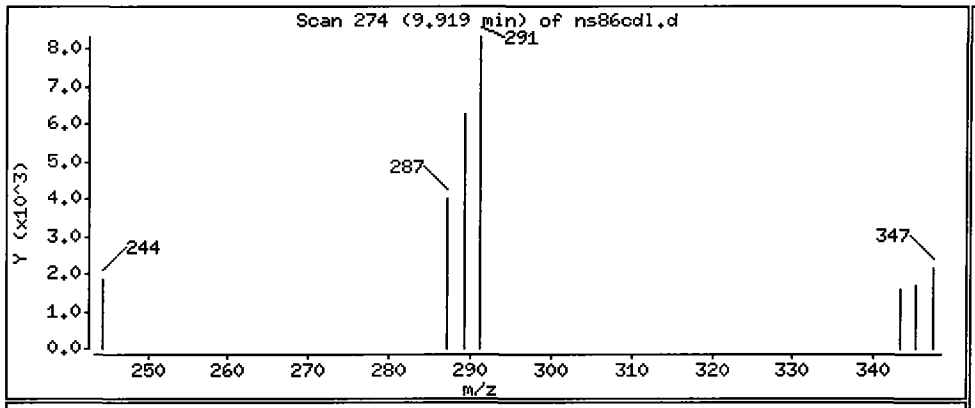
Client ID: EB-SE03-A-081003 Instrument: nt1.i

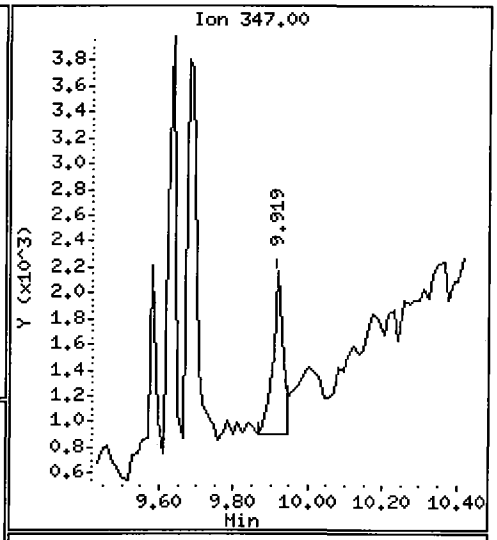
Sample Info: NS86C,3

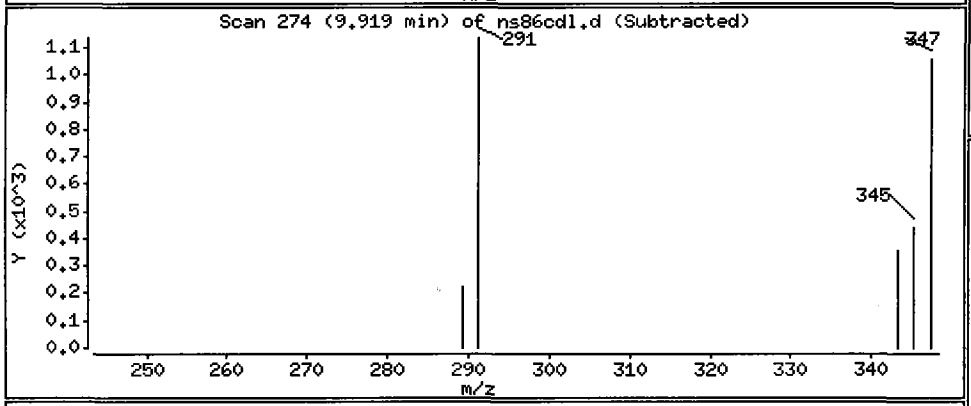
Purge Volume: 0.0 Operator: VTS

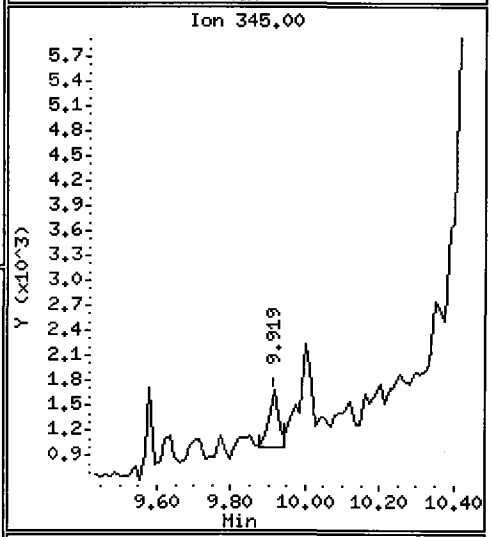
Column phase: ZB-5 Column diameter: 0.25

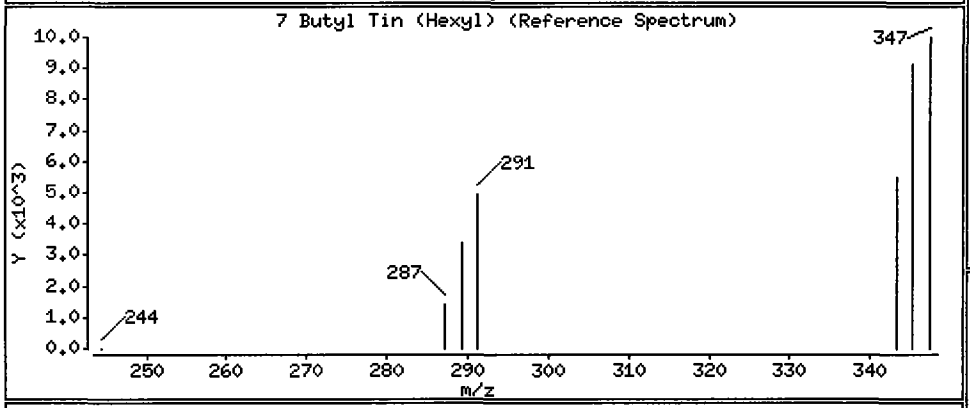
7 Butyl Tin (Hexyl) Concentration: 279.2 ug/L

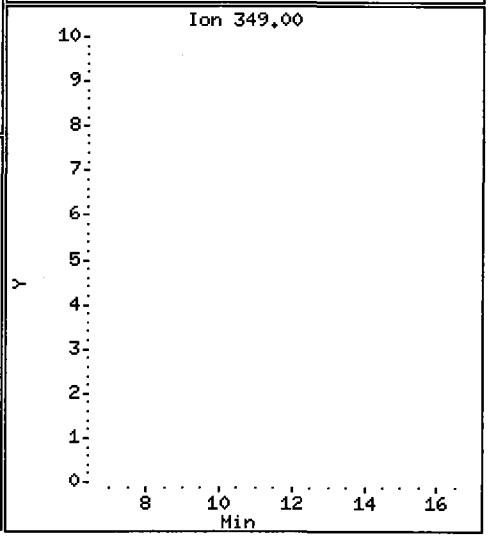


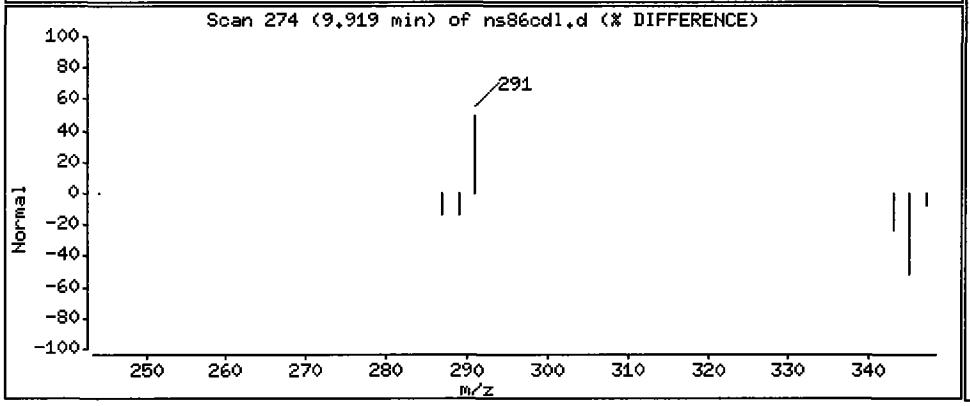












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: EB-SE04-A-081003
SAMPLE

Lab Sample ID: NS86D
LIMS ID: 08-26453
Matrix: Pore Water
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS86-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/06/08
Date Received: 10/06/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 19:12
Instrument/Analyst: NT1/VTS

Sample Amount: 100 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyl Tin Ion	0.008	0.044	
DBT_ION	Dibutyl Tin Ion	0.012	0.014	
BT_ION	Butyl Tin Ion	0.008	0.010	

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	71.5%
Tripentyl Tin Chloride	80.0%

Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ns86d.d
Lab Smp Id: NS86D Client Smp ID: EB-SEO4-A-081003
Inj Date : 08-OCT-2008 19:12
Operator : VTS Inst ID: nt1.i
Smp Info : NS86D
Misc Info : 08-26453
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 07:44 van Quant Type: ISTD
Cal Date : 08-OCT-2008 16:34 Cal File: ic1008f.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	0.50000	Final Extract Volume (mL)
Vo	100.00000	Volume Extracted (L)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	FINAL (ug/L)
$	1 Tripropyl Tin (Hexyl)	291	7.618	7.617	(0.824)	12812	20.9741	0.1049
	2 Tetrabutyl Tin	289	Compound Not Detected.					
	3 Tributyl Tin (Hexyl)	319	8.596	8.607	(0.929)	5876	✓11.5124	0.05756
*	4 Tetrapentyl Tin	333	9.249	9.248	(1.000)	159280	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.290	9.289	(0.915)	1445	✓4.70386	0.02352
$	6 Tripentyl Tin (Hexyl)	347	9.583	9.583	(0.944)	10606	22.6839	0.1134
	7 Butyl Tin (Hexyl)	347	9.920	9.920	(0.977)	2494	✓4.76694	0.02383(M)
*	8 p-Terphenyl-d14	244	10.149	10.149	(1.000)	150802	20.0000	

QC Flag Legend

M - Compound response manually integrated.

VTS 10.9.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ns86d.d
Lab Smp Id: NS86D
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: 08-26453

Calibration Date: 08-OCT-2008
Calibration Time: 14:49
Client Smp ID: EB-SEO4-A-081003
Level: LOW
Sample Type: Pore Water

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	159280	-28.23
8 p-Terphenyl-d14	218922	109461	437844	150802	-31.12

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	0.01
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

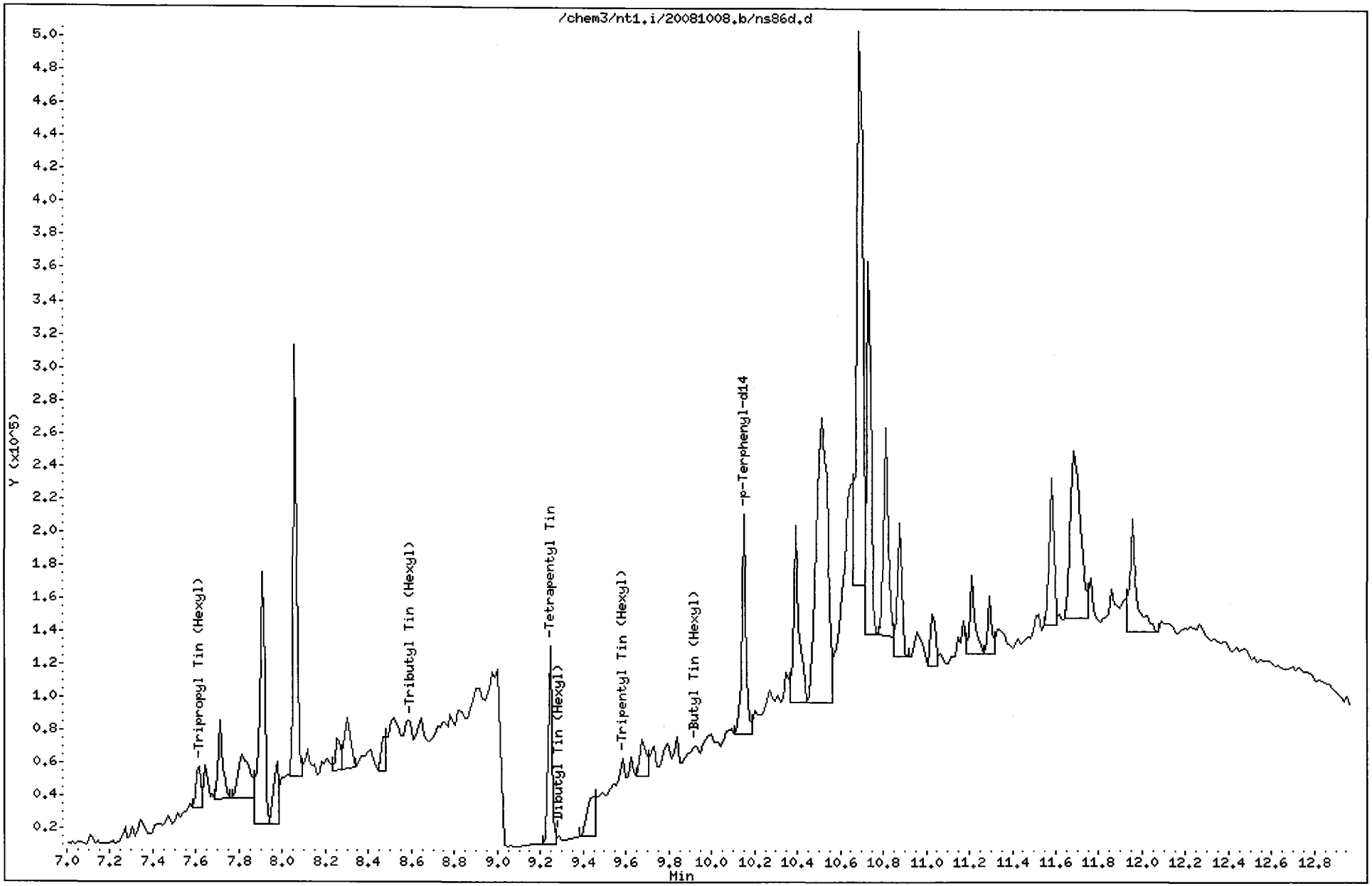
Client Name: Anchor
Sample Matrix: LIQUID
Lab Smp Id: NS86D
Level: LOW
Data Type: MS DATA
SpikeList File: PW.spk
Sublist File: PW.sub
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: 08-26453

Client SDG: NS86
Fraction: SV
Client Smp ID: EB-SEO4-A-081003
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 1 Tripropyl Tin (Hex	0.1250	0.1049	83.90	30-108
$ 6 Tripentyl Tin (Hex	0.1250	0.1134	90.74	23-97

Data File: /chem3/nt1.i/20081008.b/ns86d.d
Date : 08-OCT-2008 19:12
Client ID: EB-SE04-A-081003
Sample Info: NS86D
Purge Volume: 100.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25



Data File: /chem3/nt1.i/20081008.b/ns86d.d

Date : 08-OCT-2008 19:12

Client ID: EB-SE04-A-081003

Instrument: nt1.i

Sample Info: NS86D

Purge Volume: 100.0

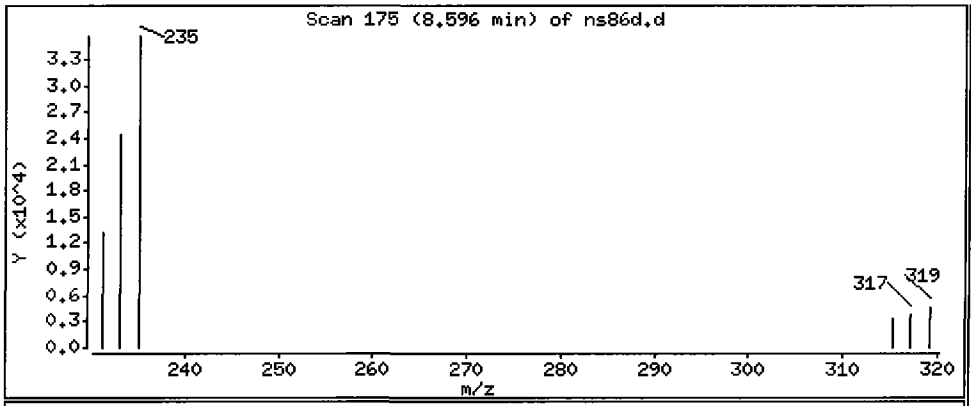
Operator: VTS

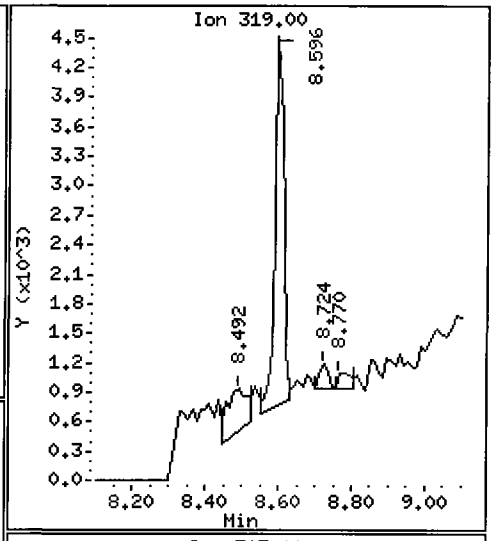
Column phase: ZB-5

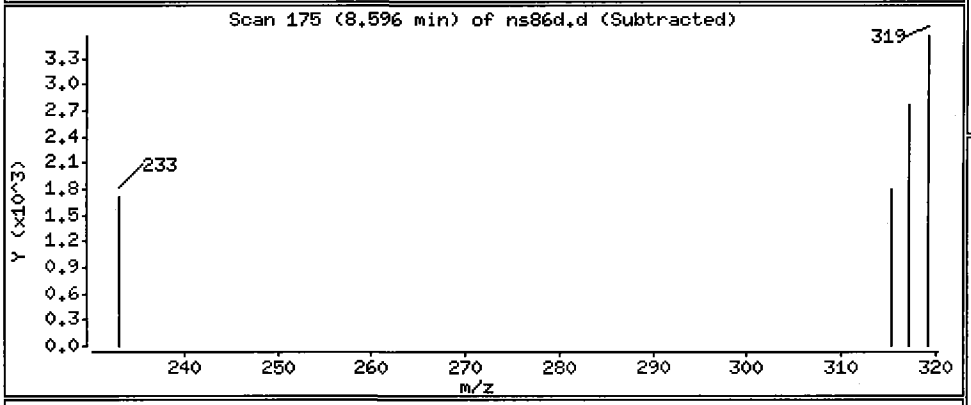
Column diameter: 0.25

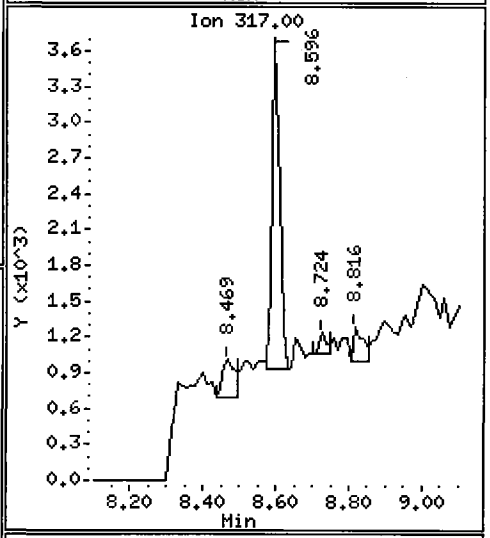
3 Tributyl Tin (Hexyl)

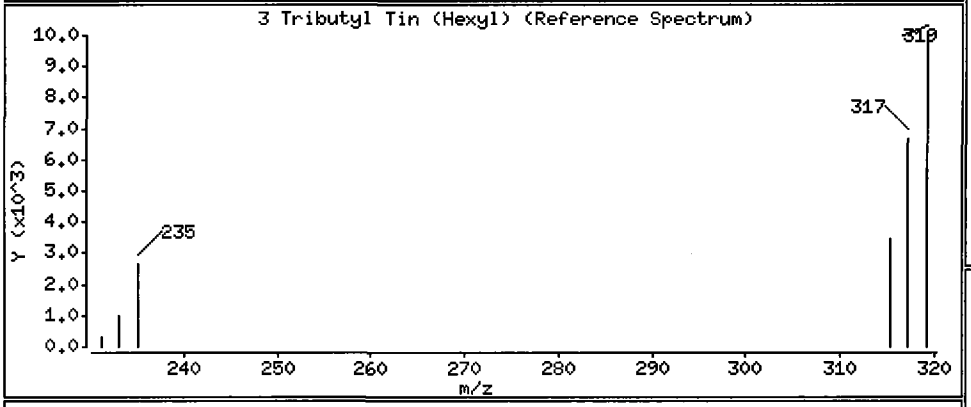
Concentration: 0.05756 ug/L

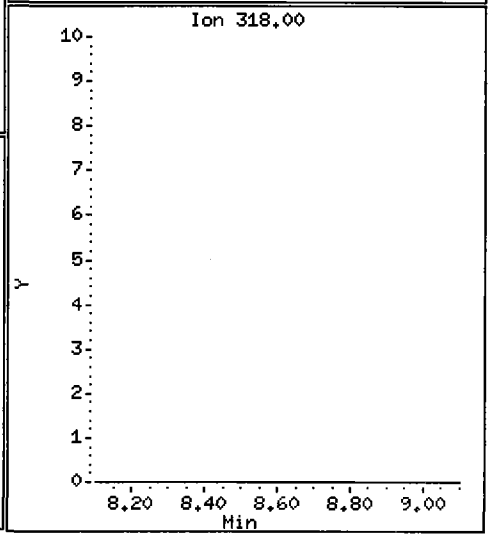


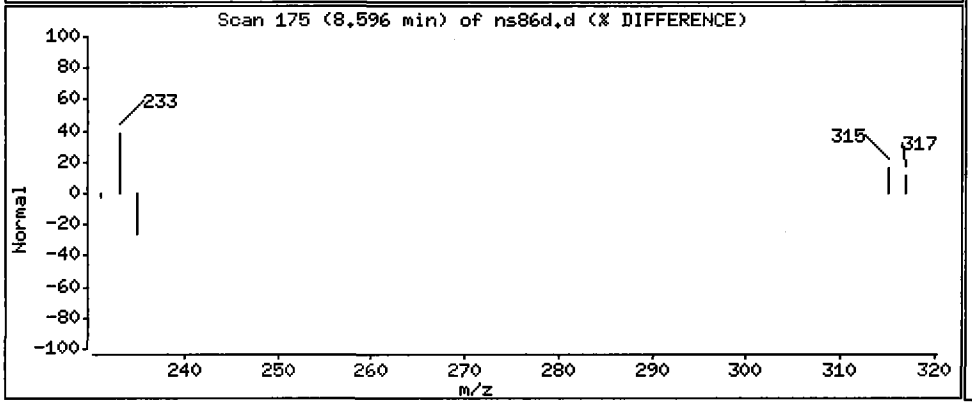












Data File: /chem3/nt1.i/20081008.b/ns86d.d

Date : 08-OCT-2008 19:12

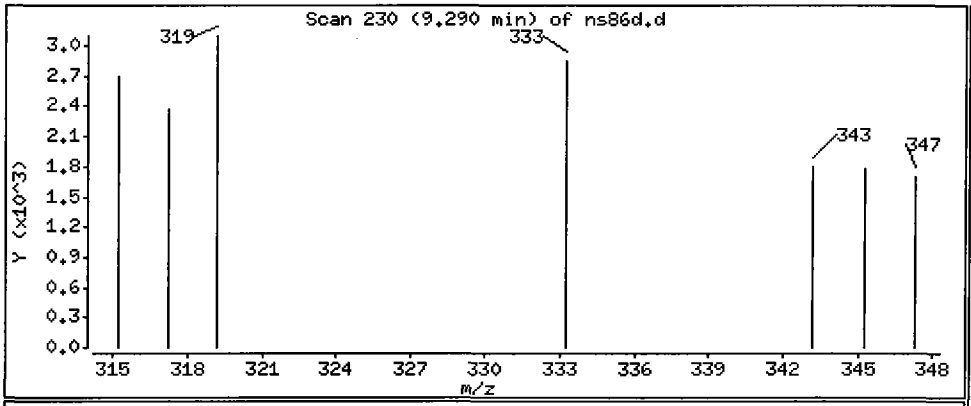
Client ID: EB-SE04-A-081003 Instrument: nt1.i

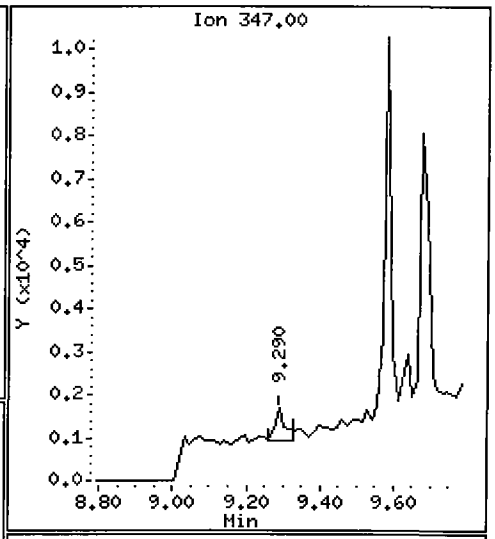
Sample Info: NS86D

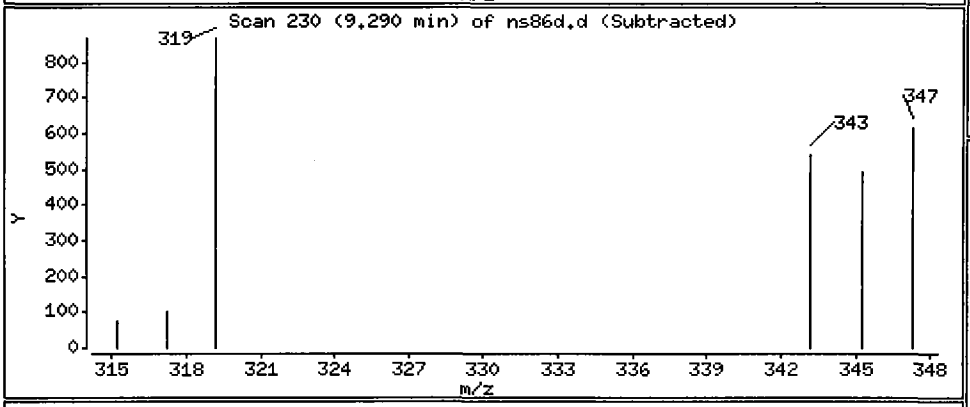
Purge Volume: 100.0 Operator: VTS

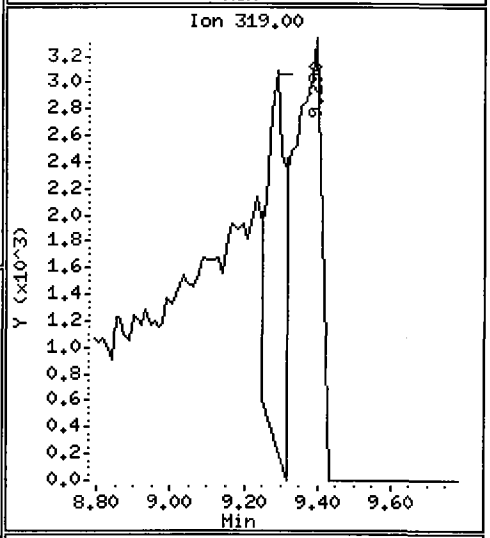
Column phase: ZB-5 Column diameter: 0.25

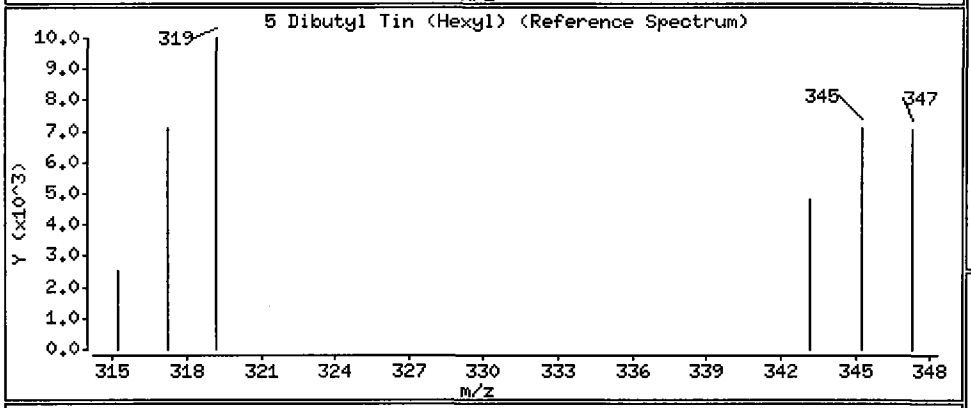
5 Dibutyl Tin (Hexyl) Concentration: 0.02352 ug/L

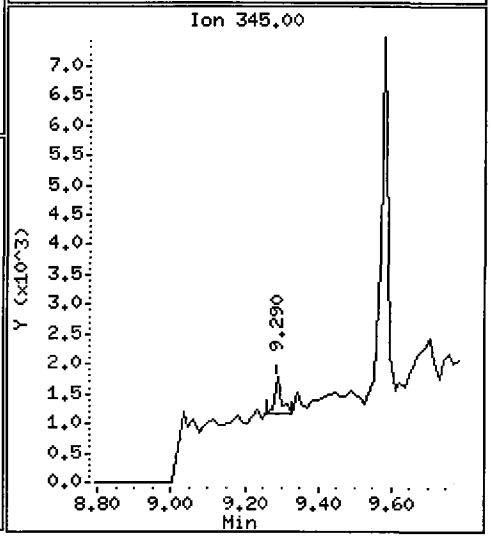


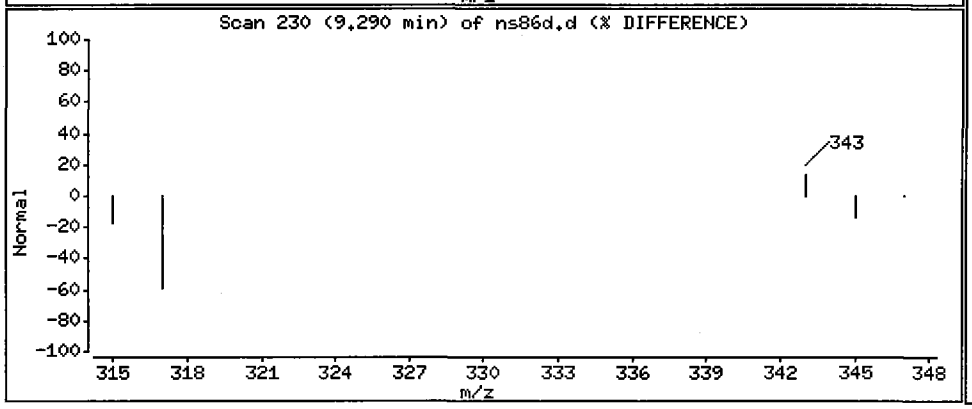












Data File: /chem3/nt1.i/20081008.b/ns86d.d

Date : 08-OCT-2008 19:12

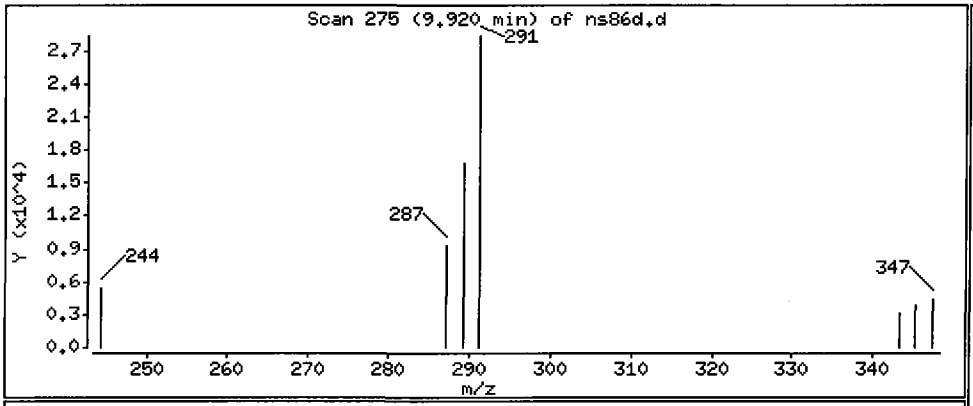
Client ID: EB-SE04-A-081003 Instrument: nt1.i

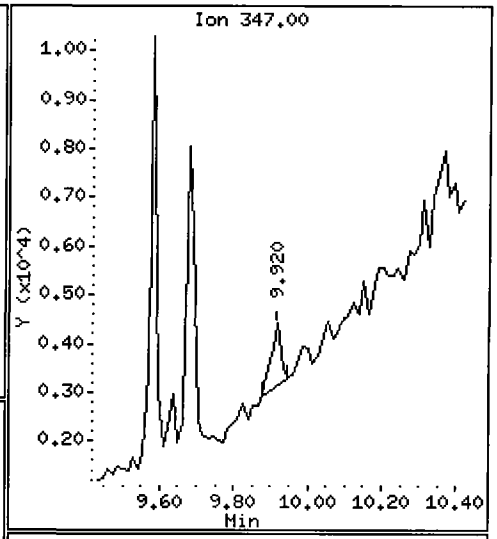
Sample Info: NS86D

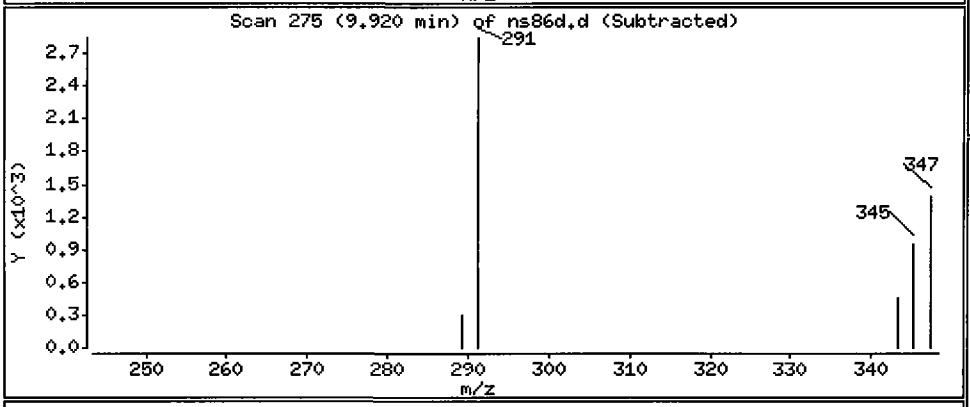
Purge Volume: 100.0 Operator: VTS

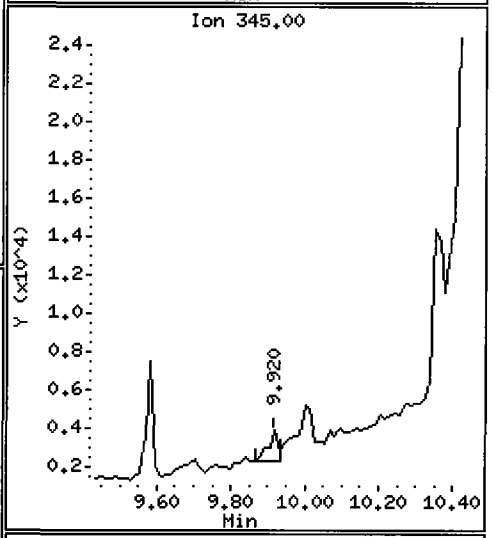
Column phase: ZB-5 Column diameter: 0.25

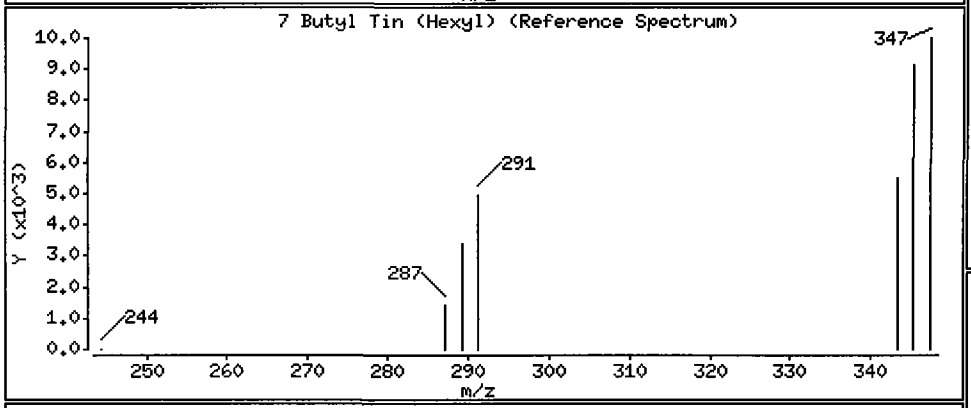
7 Butyl Tin (Hexyl) Concentration: 0.02383 ug/L

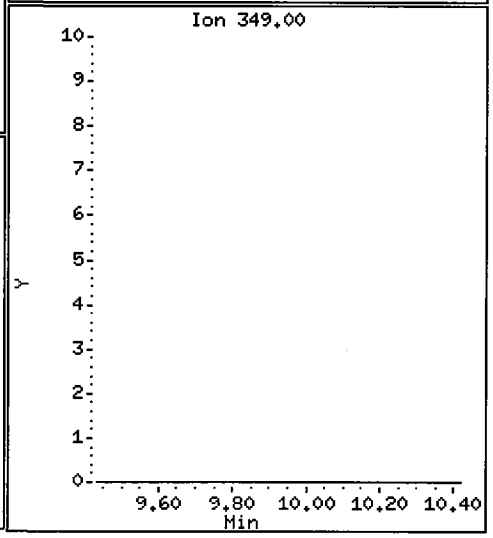


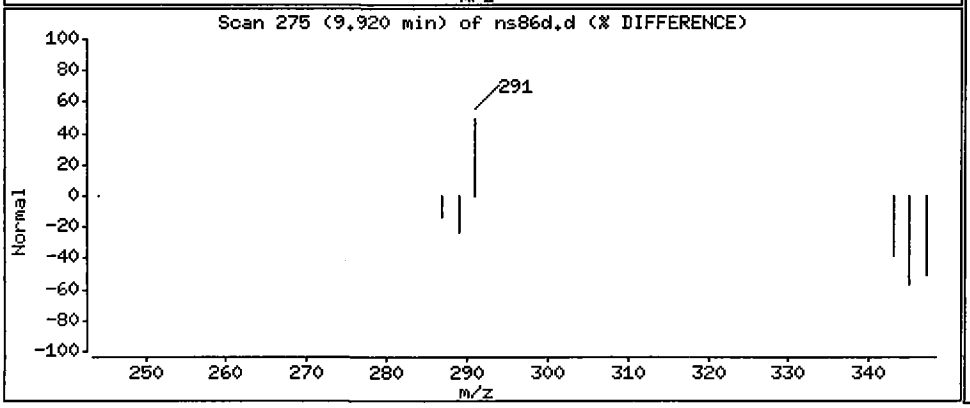












TBT Analysis
Standard Raw Data

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NS86

Prepared
By

Analytical Resources, Inc.

6B

SEMIVOLATILE 8270-C INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS86 Project: EDDON BOATYARD

Instrument ID: NT1 Calibration Date: 10/08/08

LAB FILE ID: RRF2 =IC1008C RRF5 =IC1008E RRF10 =IC1008F
RRF25 =IC1008A RRF50 =IC1008D RRF100=IC1008B

COMPOUND	RRF 2	RRF 5	RRF 10	RRF 25	RRF 50	RRF 100	$\overline{RRF}$	%RSD /R^2
Tributyl Tin (Hexyl)	0.790	0.564	0.606	0.601	0.646	0.640	0.641	12.3
Dibutyl Tin (Hexyl)	0.040	0.039	0.034	0.043	0.042	0.046	0.041	9.8
Butyl Tin (Hexyl)	0.067	0.064	0.066	0.075	0.070	0.075	0.070	6.9
Tetrabutyl Tin	0.885	0.663	0.751	0.707	0.752	0.729	0.748	10.0
Tripropyl Tin (Hexyl)	0.718	0.711	0.799	0.767	0.831	0.775	0.767	6.0
Tripentyl Tin (Hexyl)	0.053	0.060	0.061	0.064	0.065	0.068	0.062	8.6

* Compounds with maximum %RSD = 30%

~ Compounds with minimum average RRF = .05

<- Outside QC limits

FORM VI SV-1

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 08-OCT-2008 14:49
End Cal Date : 08-OCT-2008 16:34
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt1.i/20081008.b/pw3ul.m
Cal Date : 09-Oct-2008 07:43 van
Curve Type : Average

Calibration File Names:
Level 1: /chem3/nt1.i/20081008.b/ic1008c.d
Level 2: /chem3/nt1.i/20081008.b/ic1008e.d
Level 3: /chem3/nt1.i/20081008.b/ic1008f.d
Level 4: /chem3/nt1.i/20081008.b/ic1008a.d
Level 5: /chem3/nt1.i/20081008.b/ic1008d.d
Level 6: /chem3/nt1.i/20081008.b/ic1008b.d

Compound	2.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
2 Tetrabutyl Tin	0.88500	0.66327	0.75073	0.70747	0.75157	0.72929	0.74789	9.999
3 Tributyl Tin (Hexyl)	0.78997	0.56357	0.60589	0.60074	0.64555	0.63960	0.64089	12.299
5 Dibutyl Tin (Hexyl)	0.03999	0.03923	0.03401	0.04308	0.04258	0.04556	0.04074	9.828
7 Butyl Tin (Hexyl)	0.06695	0.06377	0.06598	0.07510	0.06965	0.07500	0.06941	6.859
$ 1 Tripropyl Tin (Hexyl)	0.71859	0.71112	0.79911	0.76742	0.83110	0.77475	0.76701	6.022
$ 6 Tripentyl Tin (Hexyl)	0.05303	0.06035	0.06062	0.06455	0.06509	0.06841	0.06201	8.601

Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ic1008a.d
Lab Smp Id: IC1008A
Inj Date : 08-OCT-2008 14:49
Operator : VTS Inst ID: nt1.i
Smp Info : IC1008A
Misc Info :
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 07:44 van Quant Type: ISTD
Cal Date : 08-OCT-2008 14:49 Cal File: ic1008a.d
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.617	7.617	(0.824)	21290	25.0000	25.00
	2 Tetrabutyl Tin	289	7.837	7.837	(0.847)	19627	25.0000	25.00
	3 Tributyl Tin (Hexyl)	319	8.607	8.607	(0.931)	16666	25.0000	25.00
*	4 Tetrapentyl Tin	333	9.248	9.248	(1.000)	221939	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.289	9.289	(0.915)	23580	50.0000	50.00
$	6 Tripentyl Tin (Hexyl)	347	9.583	9.583	(0.944)	35329	50.0000	50.00
	7 Butyl Tin (Hexyl)	347	9.920	9.920	(0.977)	41102	50.0000	50.00
*	8 p-Terphenyl-d14	244	10.149	10.149	(1.000)	218922	20.0000	

VTS
10.9.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic1008a.d
Lab Smp Id: IC1008A
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info:

Calibration Date: 08-OCT-2008
Calibration Time: 14:49
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	221939	0.00
8 p-Terphenyl-d14	218922	109461	437844	218922	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	0.00
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

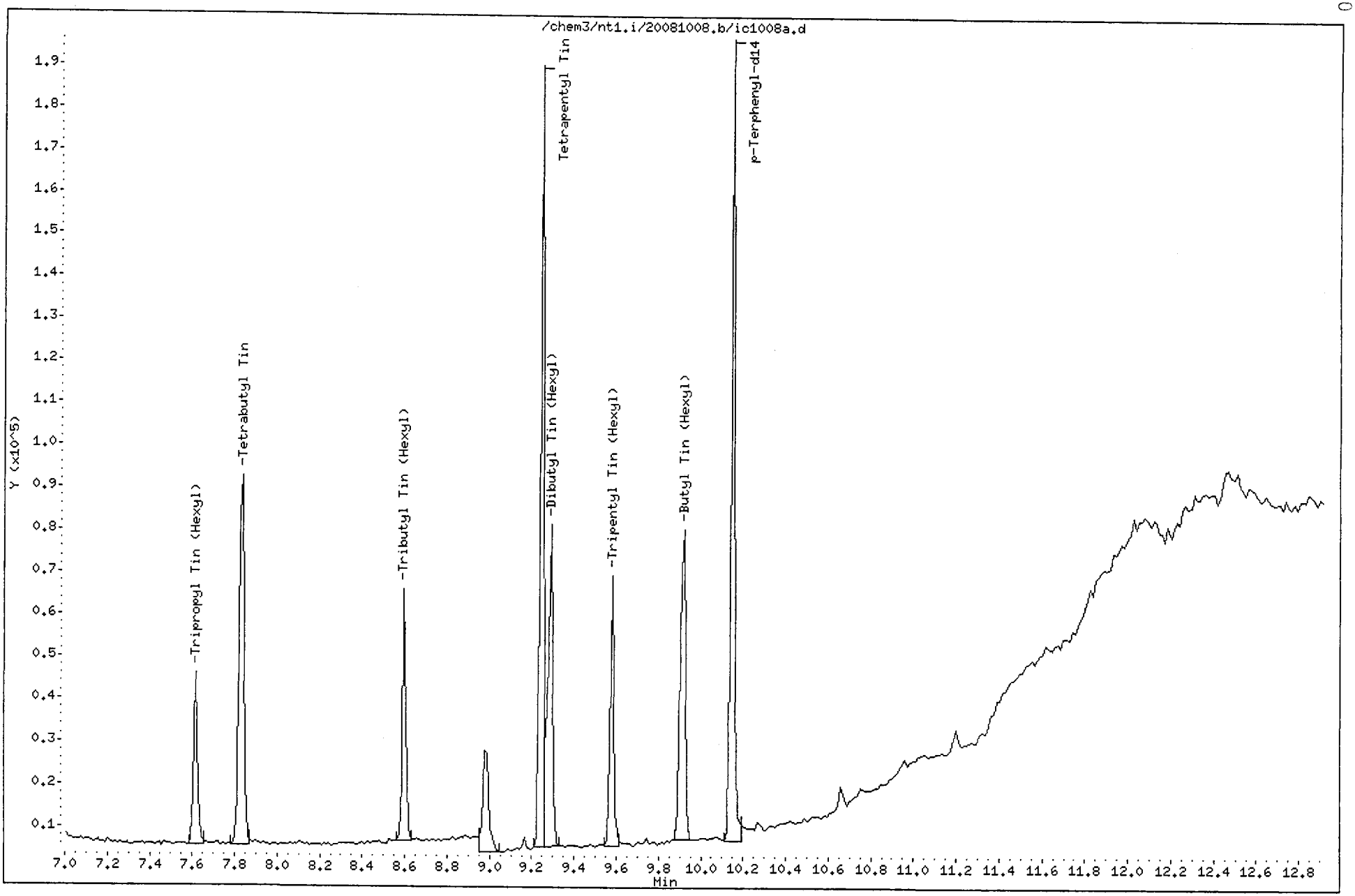
Data File: /chem3/nt1.i/20081008.b/ic1008a.d
Date : 08-OCT-2008 14:49
Client ID:
Sample Info: IC1008A

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5

0081



Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ic1008b.d
Lab Smp Id: IC1008B
Inj Date : 08-OCT-2008 15:15
Operator : VTS Inst ID: nt1.i
Smp Info : IC1008B
Misc Info : PW100
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 07:44 van Quant Type: ISTD
Cal Date : 08-OCT-2008 15:15 Cal File: ic1008b.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.618	7.617	(0.824)	84767	100.000	100.5
	2 Tetrabutyl Tin	289	7.838	7.837	(0.847)	79793	100.000	101.5
	3 Tributyl Tin (Hexyl)	319	8.608	8.607	(0.931)	69980	100.000	103.1
*	4 Tetrapentyl Tin	333	9.249	9.248	(1.000)	218823	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.289	9.289	(0.915)	93191	200.000	205.6
$	6 Tripentyl Tin (Hexyl)	347	9.583	9.583	(0.944)	139943	200.000	205.8
	7 Butyl Tin (Hexyl)	347	9.920	9.920	(0.977)	153425	200.000	199.9
*	8 p-Terphenyl-d14	244	10.149	10.149	(1.000)	204558	20.0000	

VTS
10.9.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic1008b.d
Lab Smp Id: IC1008B
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: PW100

Calibration Date: 08-OCT-2008
Calibration Time: 14:49

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	218823	-1.40
8 p-Terphenyl-d14	218922	109461	437844	204558	-6.56

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	0.01
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	0.00

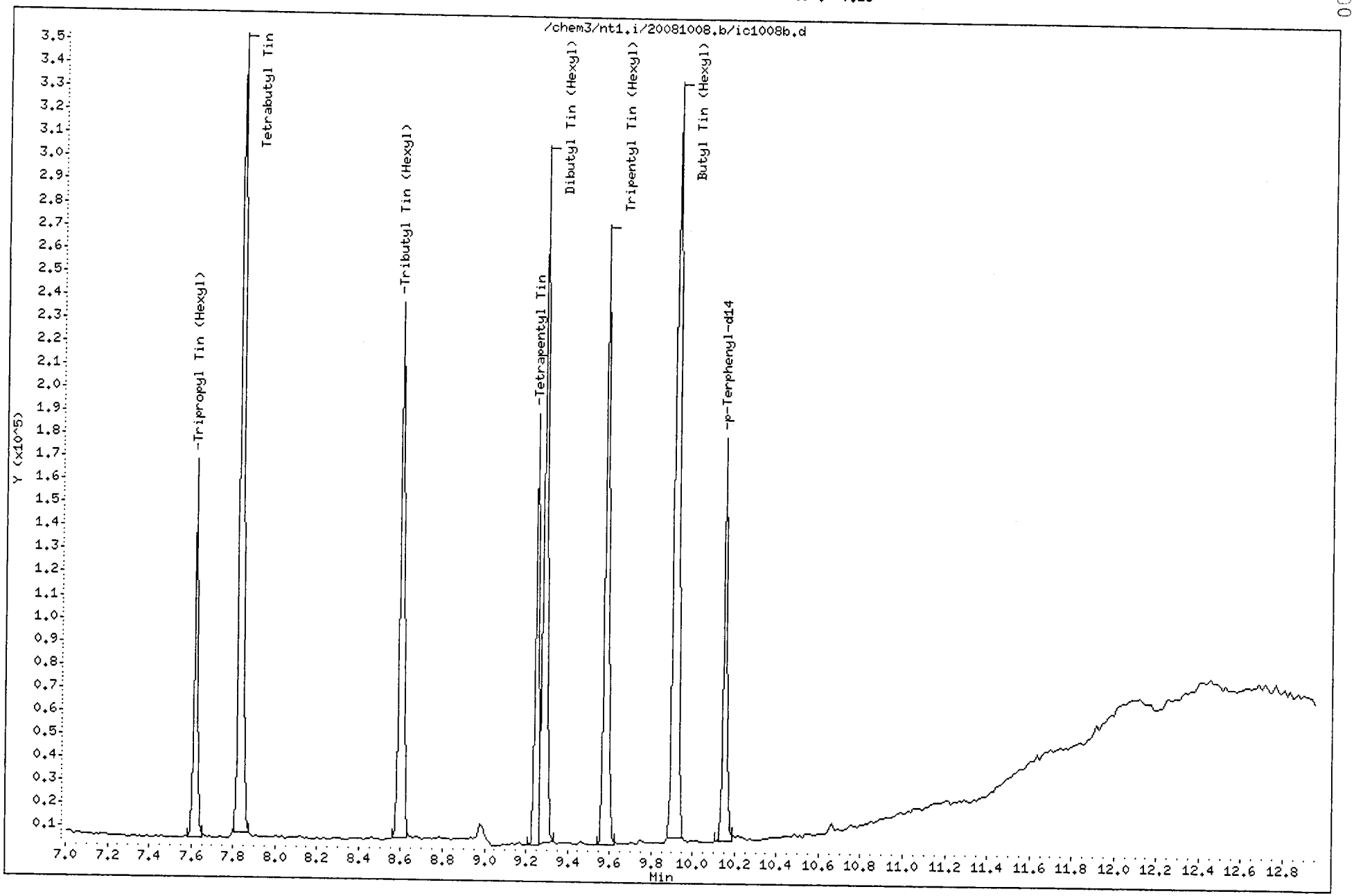
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt1.i/20081008.b/ic1008b.d
Date : 08-OCT-2008 15:15
Client ID:
Sample Info: IC1008B

Column phase: ZB-5

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

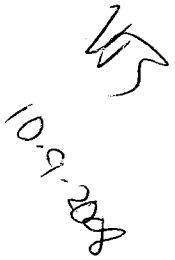


Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ic1008c.d
Lab Smp Id: IC1008C
Inj Date : 08-OCT-2008 15:35
Operator : VTS Inst ID: nt1.i
Smp Info : IC1008C
Misc Info : PW2
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 07:44 van Quant Type: ISTD
Cal Date : 08-OCT-2008 15:35 Cal File: ic1008c.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.620	7.617	(0.824)	1520	2.00000	1.907
	2 Tetrabutyl Tin	289	7.840	7.837	(0.848)	1872	2.00000	2.287
	3 Tributyl Tin (Hexyl)	319	8.607	8.607	(0.931)	1671	2.00000	2.335
*	4 Tetrapentyl Tin	333	9.248	9.248	(1.000)	211526	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.289	9.289	(0.915)	1695	4.00000	3.731
$	6 Tripentyl Tin (Hexyl)	347	9.582	9.583	(0.944)	2248	4.00000	3.422
	7 Butyl Tin (Hexyl)	347	9.919	9.920	(0.977)	2838	4.00000	3.702
*	8 p-Terphenyl-d14	244	10.148	10.149	(1.000)	211940	20.0000	



Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic1008c.d
Lab Smp Id: IC1008C
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: PW2

Calibration Date: 08-OCT-2008
Calibration Time: 14:49
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	211526	-4.69
8 p-Terphenyl-d14	218922	109461	437844	211940	-3.19

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	0.00
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

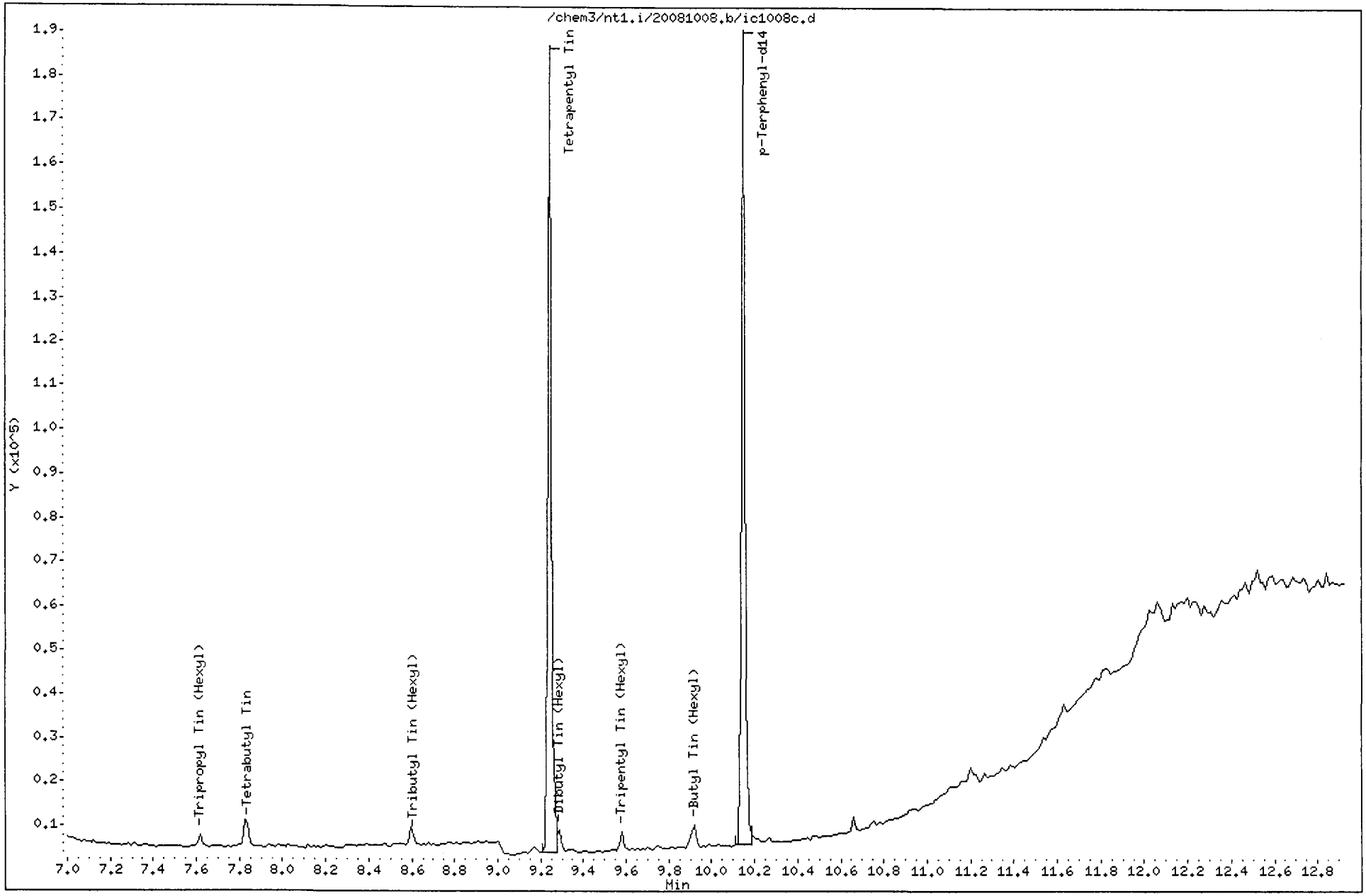
Data File: /chem3/nt1.i/20081008.b/ic1008c.d
Date : 08-OCT-2008 15:35
Client ID:
Sample Info: IC1008C

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5

0087



Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ic1008d.d
Lab Smp Id: IC1008D
Inj Date : 08-OCT-2008 15:55
Operator : VTS Inst ID: nt1.i
Smp Info : IC1008D
Misc Info : PW50
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 07:44 van Quant Type: ISTD
Cal Date : 08-OCT-2008 15:55 Cal File: ic1008d.d
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.617	7.617	(0.824)	40591	50.0000	53.76
	2 Tetrabutyl Tin	289	7.837	7.837	(0.847)	36707	50.0000	48.91
	3 Tributyl Tin (Hexyl)	319	8.608	8.607	(0.931)	31529	50.0000	48.25
*	4 Tetrapentyl Tin	333	9.248	9.248	(1.000)	195361	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.288	9.289	(0.915)	41073	100.000	99.47
$	6 Tripentyl Tin (Hexyl)	347	9.582	9.583	(0.944)	62797	100.000	103.7
	7 Butyl Tin (Hexyl)	347	9.919	9.920	(0.977)	67191	100.000	97.17
*	8 p-Terphenyl-d14	244	10.148	10.149	(1.000)	192944	20.0000	

VTS
10.9.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic1008d.d
Lab Smp Id: IC1008D
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: PW50

Calibration Date: 08-OCT-2008
Calibration Time: 14:49
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	195361	-11.98
8 p-Terphenyl-d14	218922	109461	437844	192944	-11.87

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	-0.01
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	-0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

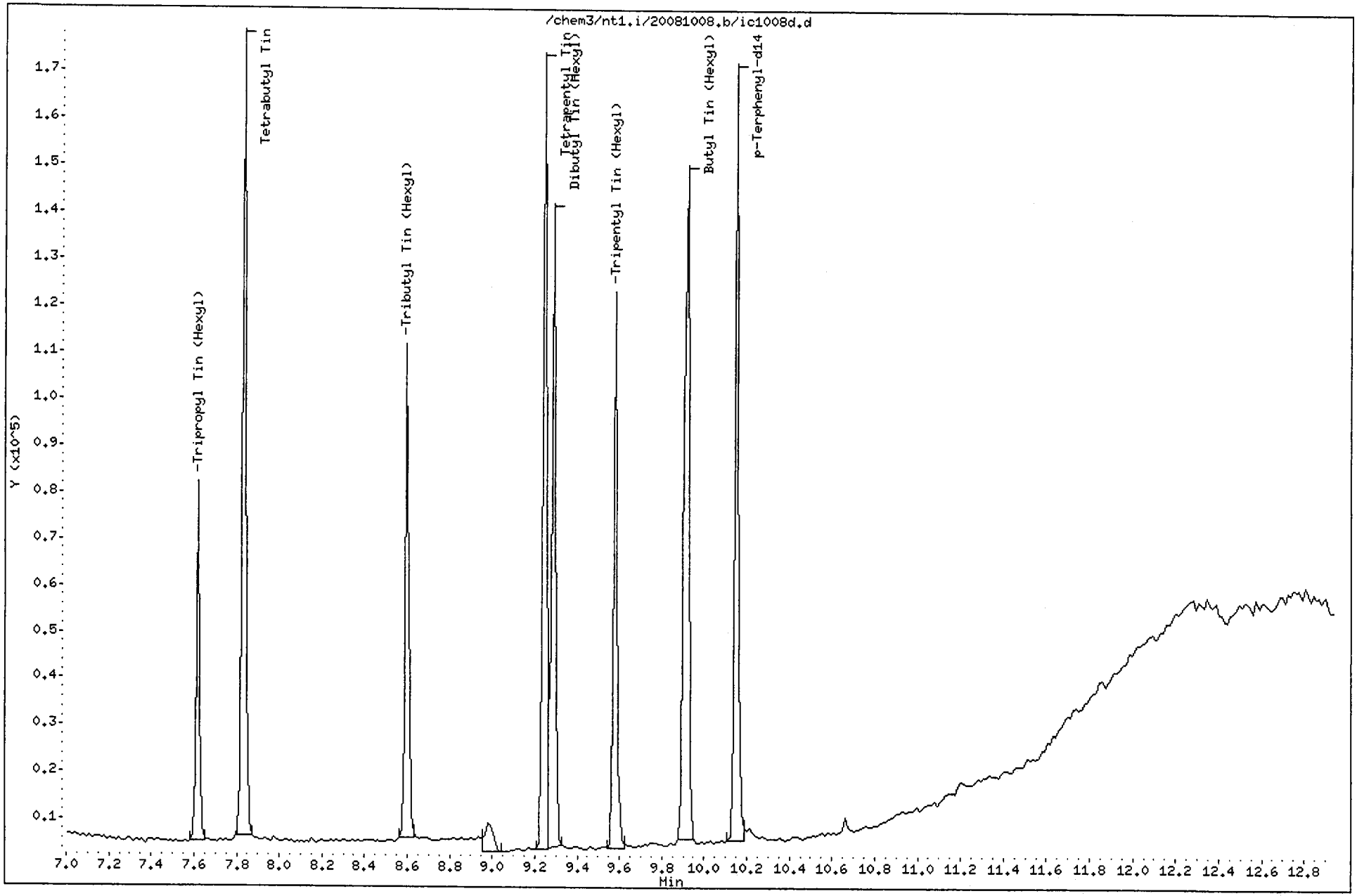
Data File: /chem3/nt1.i/20081008.b/ic1008d.d
Date : 08-OCT-2008 15:55
Client ID:
Sample Info: IC1008D

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5

0090



Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ic1008e.d
Lab Smp Id: IC1008E
Inj Date : 08-OCT-2008 16:14
Operator : VTS Inst ID: nt1.i
Smp Info : IC1008E
Misc Info : PW5
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 07:44 van Quant Type: ISTD
Cal Date : 08-OCT-2008 16:14 Cal File: ic1008e.d
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.618	7.617	(0.824)	4622	5.00000	4.675
	2 Tetrabutyl Tin	289	7.838	7.837	(0.847)	4311	5.00000	4.438
	3 Tributyl Tin (Hexyl)	319	8.608	8.607	(0.931)	3663	5.00000	4.349
*	4 Tetrapentyl Tin	333	9.249	9.248	(1.000)	259986	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.289	9.289	(0.915)	5015	10.0000	9.322
$	6 Tripentyl Tin (Hexyl)	347	9.583	9.583	(0.944)	7714	10.0000	9.688
	7 Butyl Tin (Hexyl)	347	9.920	9.920	(0.977)	8152	10.0000	9.098
*	8 p-Terphenyl-d14	244	10.149	10.149	(1.000)	255658	20.0000	

VTS
10.9.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic1008e.d
Lab Smp Id: IC1008E
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: PW5

Calibration Date: 08-OCT-2008
Calibration Time: 14:49
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	259986	17.14
8 p-Terphenyl-d14	218922	109461	437844	255658	16.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	0.00
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

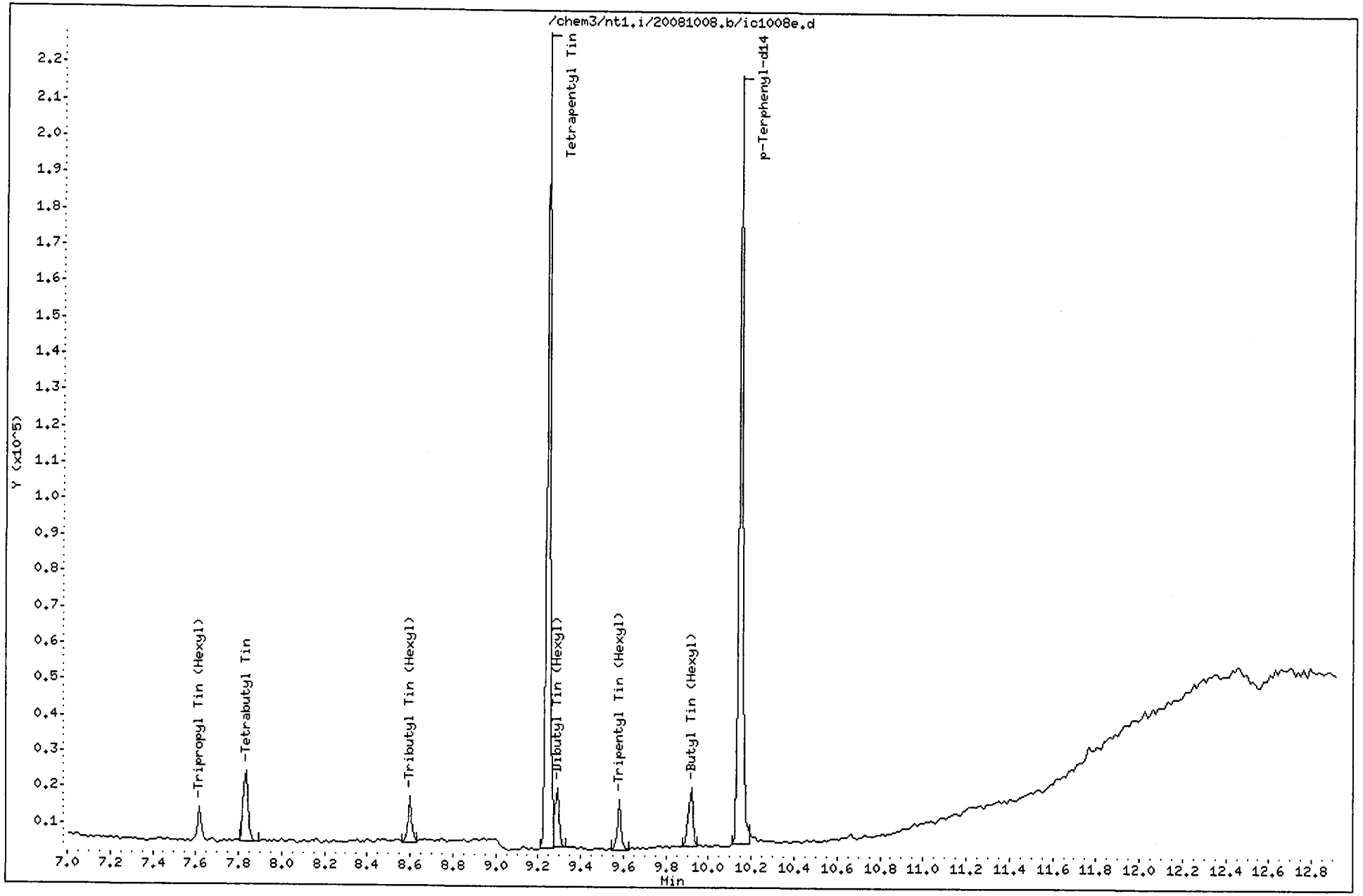
Data File: /chem3/nt1.i/20081008.b/ic1008e.d
Date : 08-OCT-2008 16:14
Client ID:
Sample Info: IC1008E

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

Column phase: ZB-5

0093



Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ic1008f.d
Lab Smp Id: IC1008F
Inj Date : 08-OCT-2008 16:34
Operator : VTS Inst ID: nt1.i
Smp Info : IC1008F
Misc Info : PW10
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 07:44 van Quant Type: ISTD
Cal Date : 08-OCT-2008 16:34 Cal File: ic1008f.d
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.618	7.617	(0.824)	8342	10.0000	10.42
	2 Tetrabutyl Tin	289	7.838	7.837	(0.847)	7837	10.0000	10.04
	3 Tributyl Tin (Hexyl)	319	8.608	8.607	(0.931)	6325	10.0000	9.454
*	4 Tetrapentyl Tin	333	9.249	9.248	(1.000)	208783	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.289	9.289	(0.915)	7269	20.0000	16.70
$	6 Tripentyl Tin (Hexyl)	347	9.583	9.583	(0.944)	12955	20.0000	19.55
	7 Butyl Tin (Hexyl)	347	9.920	9.920	(0.977)	14100	20.0000	19.01
*	8 p-Terphenyl-d14	244	10.149	10.149	(1.000)	213713	20.0000	

VTS 10.9.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic1008f.d
Lab Smp Id: IC1008F
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: PW10

Calibration Date: 08-OCT-2008
Calibration Time: 14:49

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	208783	-5.93
8 p-Terphenyl-d14	218922	109461	437844	213713	-2.38

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	0.01
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

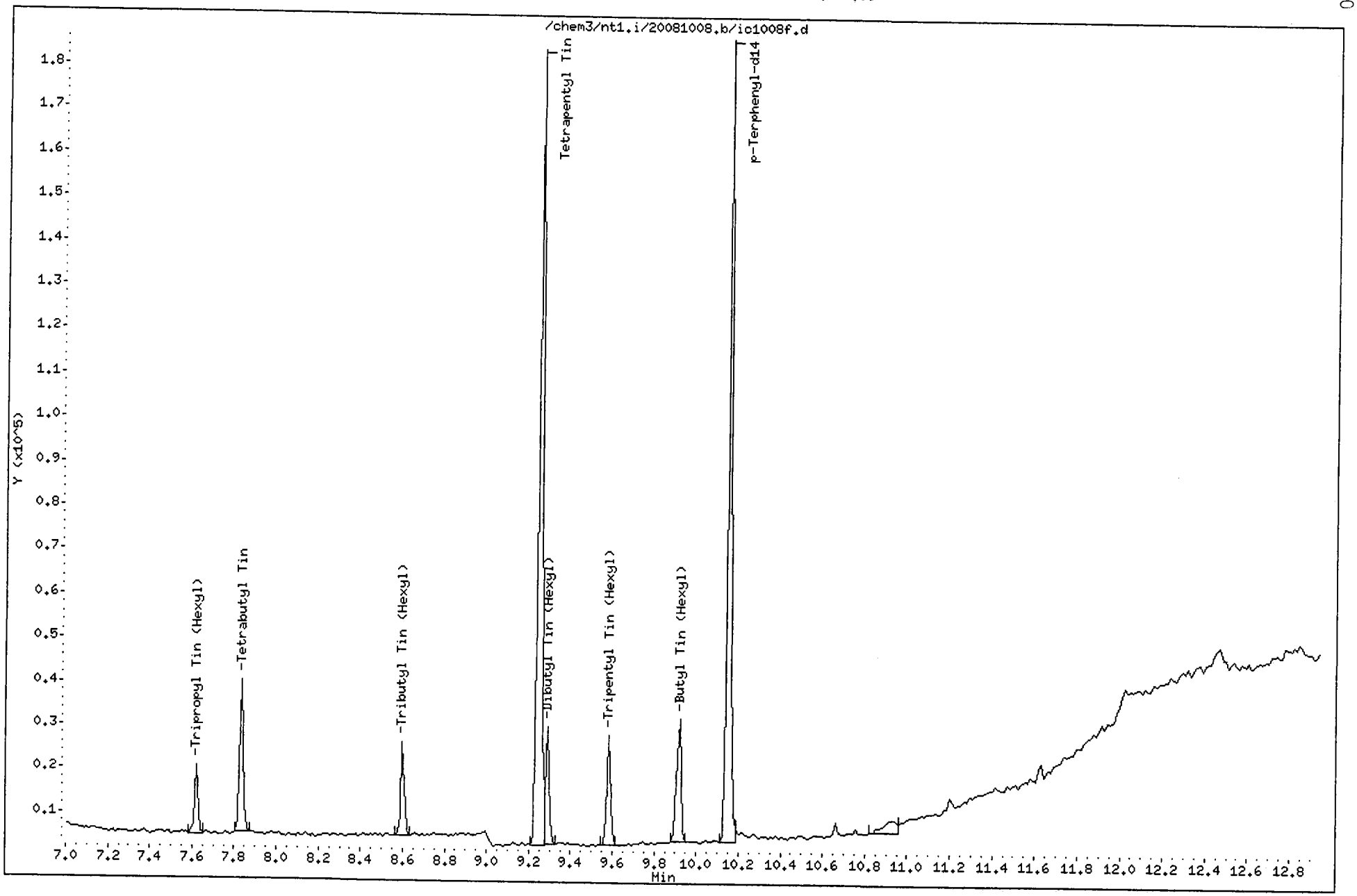
Data File: /chem3/nt1.i/20081008.b/ic1008f.d
Date : 08-OCT-2008 16:34
Client ID:
Sample Info: IC1008F

Column phase: ZB-5

Instrument: nt1.i

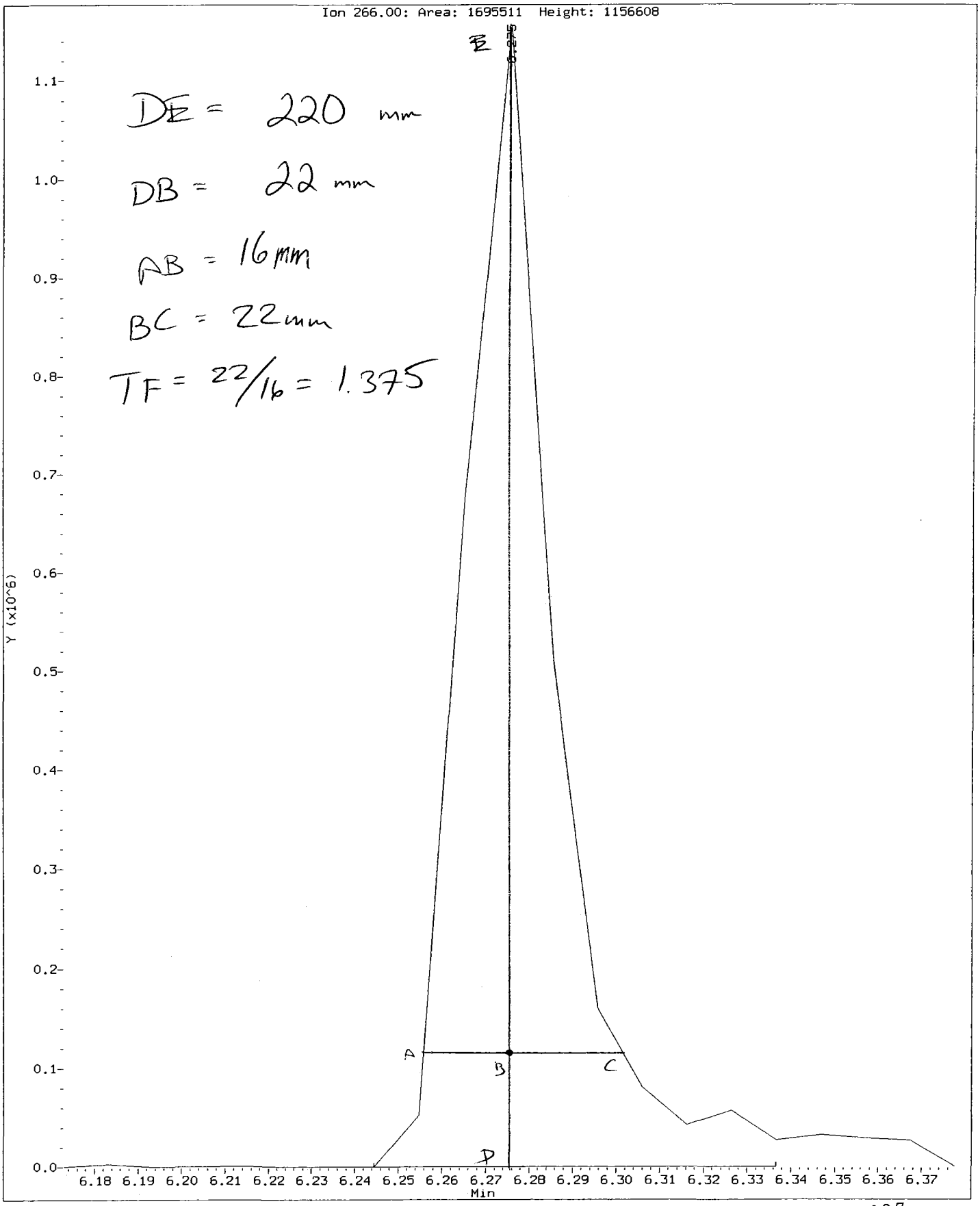
Operator: VTS
Column diameter: 0.25

9600



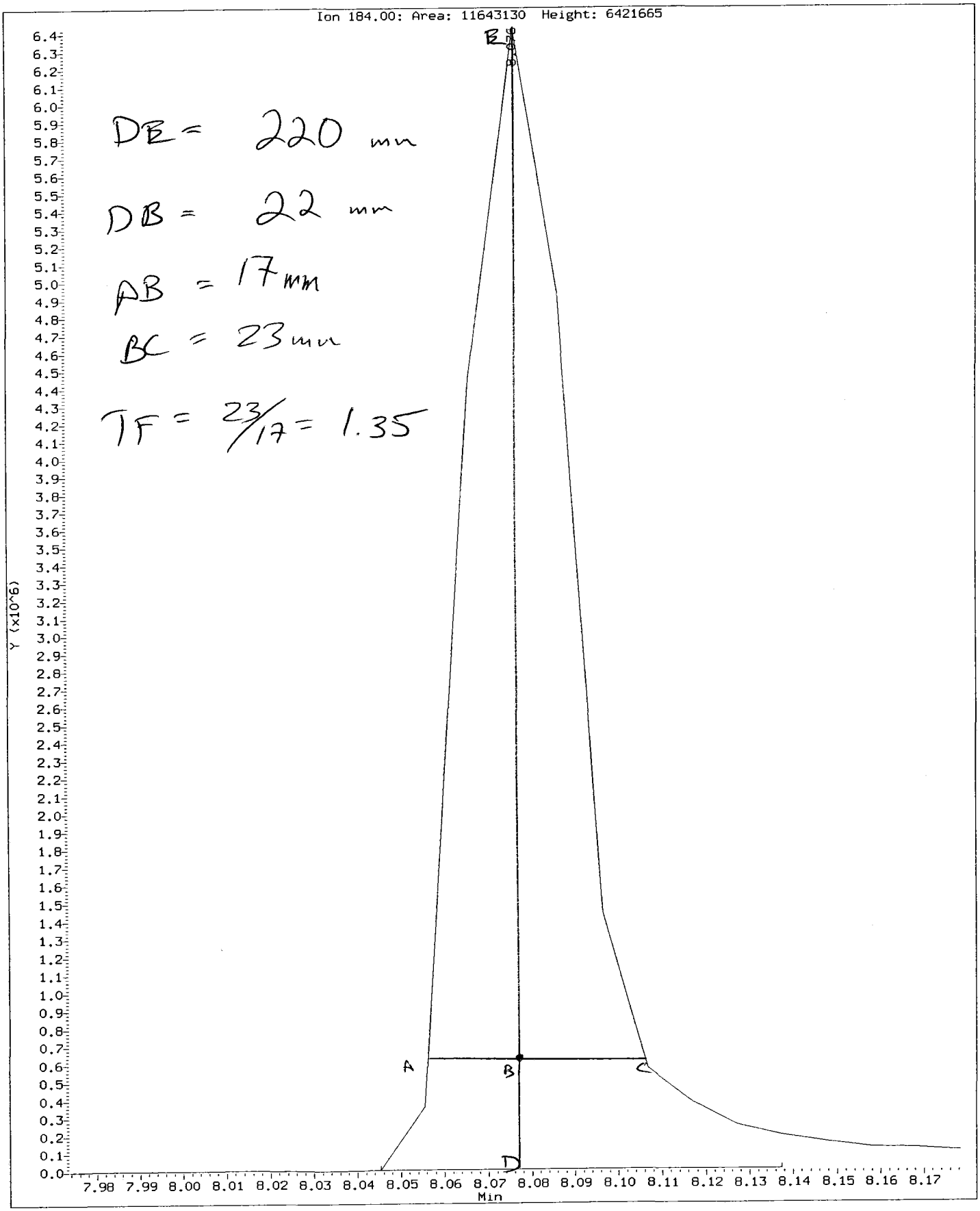
Data File: /chem3/nt1.i/20081008.b/ddt.b/df1008a.d
Injection Date: 08-OCT-2008 14:29
Instrument: nt1.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt1.i/20081008.b/ddt.b/df1008a.d
Injection Date: 08-OCT-2008 14:29
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt1.i/20081008.b/ddt.b/df1008a.d ARI ID: DF1008
Method: /chem3/nt1.i/20081008.b/ddt.b/sw846ddt.m Misc:
Analysis Date: 08-OCT-2008 14:29 Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	6.275	1695511
Benzidine	8.076	11643130
4,4'-DDE	8.362	15305
4,4'-DDD	8.772	227316
4,4'-DDT	9.130	4650520

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(\ 15305 + 227316) * 100}{(\ 15305 + 227316 + 4650520)}$$

DDT Percent Breakdown = 5.0 %

7B

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS86 Project: EDDON BOATYARD

Instrument ID: NT1 Cont. Calib. Date: 10/08/08

Init. Calib. Date: 10/08/08 Cont. Calib. Time: 1449

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Tributyl Tin (Hexyl)	0.641	0.601	0.100	6.2	
Dibutyl Tin (Hexyl)	0.041	0.043	0.100	-4.9	
Butyl Tin (Hexyl)	0.070	0.075	0.100	-7.1	
Tetrabutyl Tin	0.748	0.707	0.100	5.5	
Tripropyl Tin (Hexyl)	0.767	0.767	0.100	0.0	
Tripentyl Tin (Hexyl)	0.062	0.064	0.100	-3.2	

<- Outside QC limits

FORM VII SV-1

Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ic1008a.d
Lab Smp Id: IC1008A
Inj Date : 08-OCT-2008 14:49
Operator : VTS Inst ID: nt1.i
Smp Info : IC1008A
Misc Info :
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 11:58 van Quant Type: ISTD
Cal Date : 08-OCT-2008 16:34 Cal File: ic1008f.d
Als bottle: 6 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.617	7.617	(0.824)	21290	25.0000	25.01
	2 Tetrabutyl Tin	289	7.837	7.837	(0.847)	19627	25.0000	23.65
	3 Tributyl Tin (Hexyl)	319	8.607	8.607	(0.931)	16666	25.0000	23.43
*	4 Tetrapentyl Tin	333	9.248	9.248	(1.000)	221939	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.289	9.289	(0.915)	23580	50.0000	52.87
$	6 Tripentyl Tin (Hexyl)	347	9.583	9.583	(0.944)	35329	50.0000	52.05
	7 Butyl Tin (Hexyl)	347	9.920	9.920	(0.977)	41102	50.0000	54.10
*	8 p-Terphenyl-d14	244	10.149	10.149	(1.000)	218922	20.0000	

VTS
10.9.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ic1008a.d
Lab Smp Id: IC1008A
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info:

Calibration Date: 08-OCT-2008
Calibration Time: 14:49

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	221939	0.00
8 p-Terphenyl-d14	218922	109461	437844	218922	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	0.00
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt1.i
Lab File ID: ic1008a.d
Analysis Type:
Lab Sample ID: IC1008A
Method: /chem3/nt1.i/20081008.b/pw3ul.m

Injection Date: 08-OCT-2008 14:49
Init. Cal. Date(s): 08-OCT-2008 08-OCT-2008
Init. Cal. Times: 14:49 16:34
Quant Type: ISTD

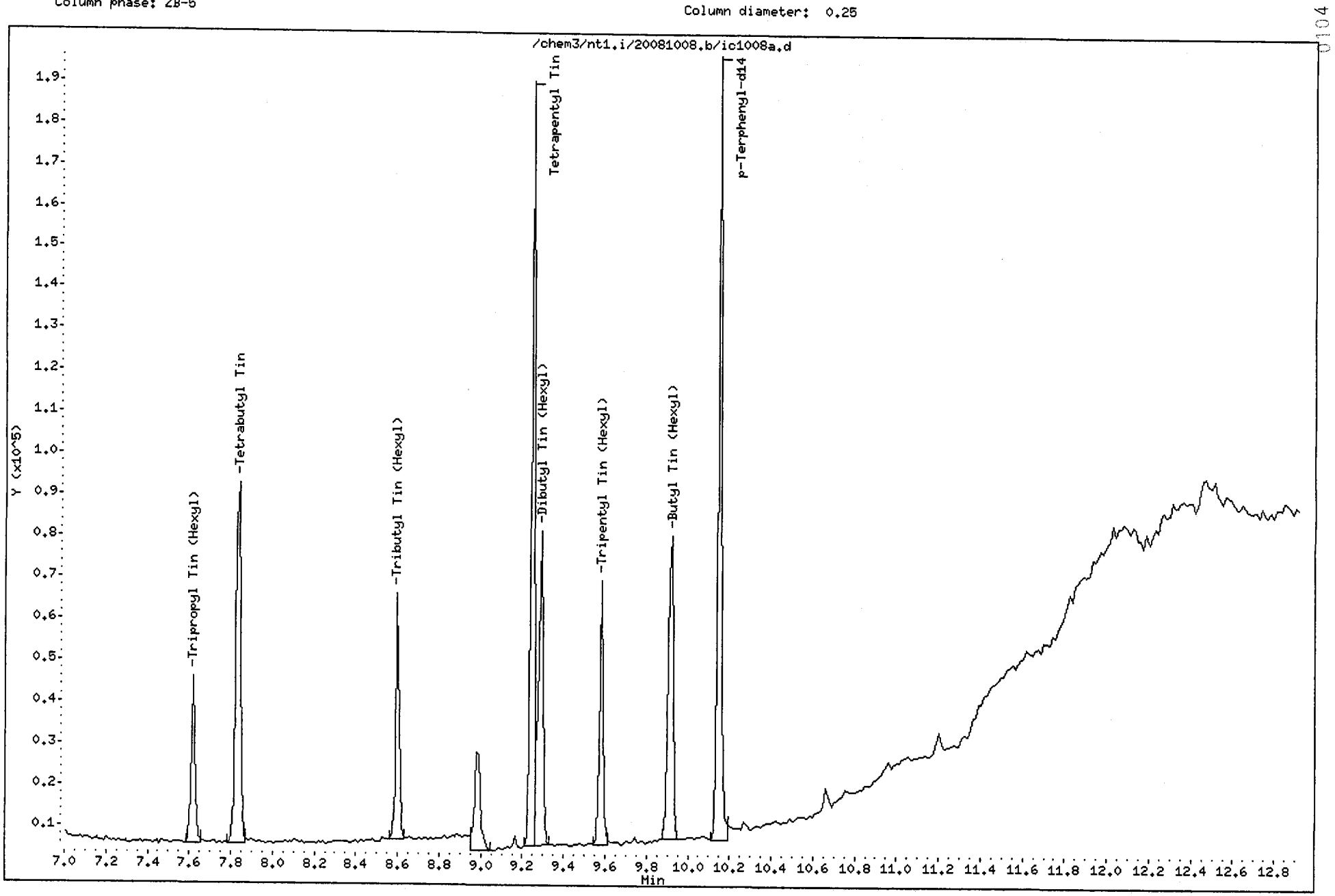
COMPOUND	RRF / AMOUNT	RF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tripropyl Tin (Hexyl)	0.76701	0.76742	0.005	-0.05278	20.00000	Averaged
2 Tetrabutyl Tin	0.74789	0.70747	0.010	5.40394	20.00000	Averaged
3 Tributyl Tin (Hexyl)	0.64089	0.60074	0.005	6.26432	20.00000	Averaged
5 Dibutyl Tin (Hexyl)	0.04074	0.04308	0.005	-5.74932	20.00000	Averaged
$ 6 Tripentyl Tin (Hexyl)	0.06201	0.06455	0.010	-4.09873	20.00000	Averaged
7 Butyl Tin (Hexyl)	0.06941	0.07510	0.005	-8.19810	20.00000	Averaged

Data File: /chem3/nt1.i/20081008.b/ic1008a.d
Date : 08-OCT-2008 14:49
Client ID:
Sample Info: IC1008A

Instrument: nt1.i

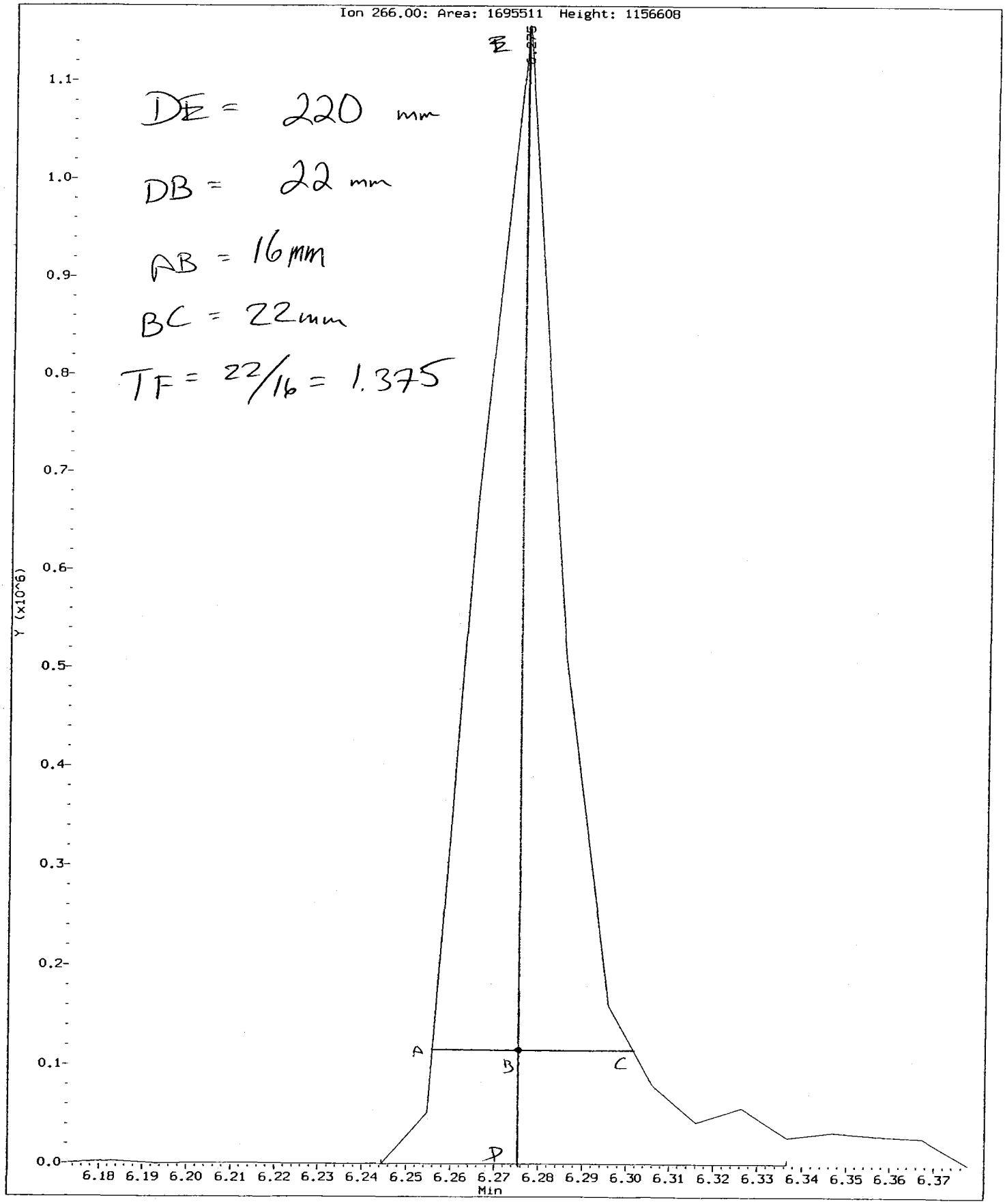
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5



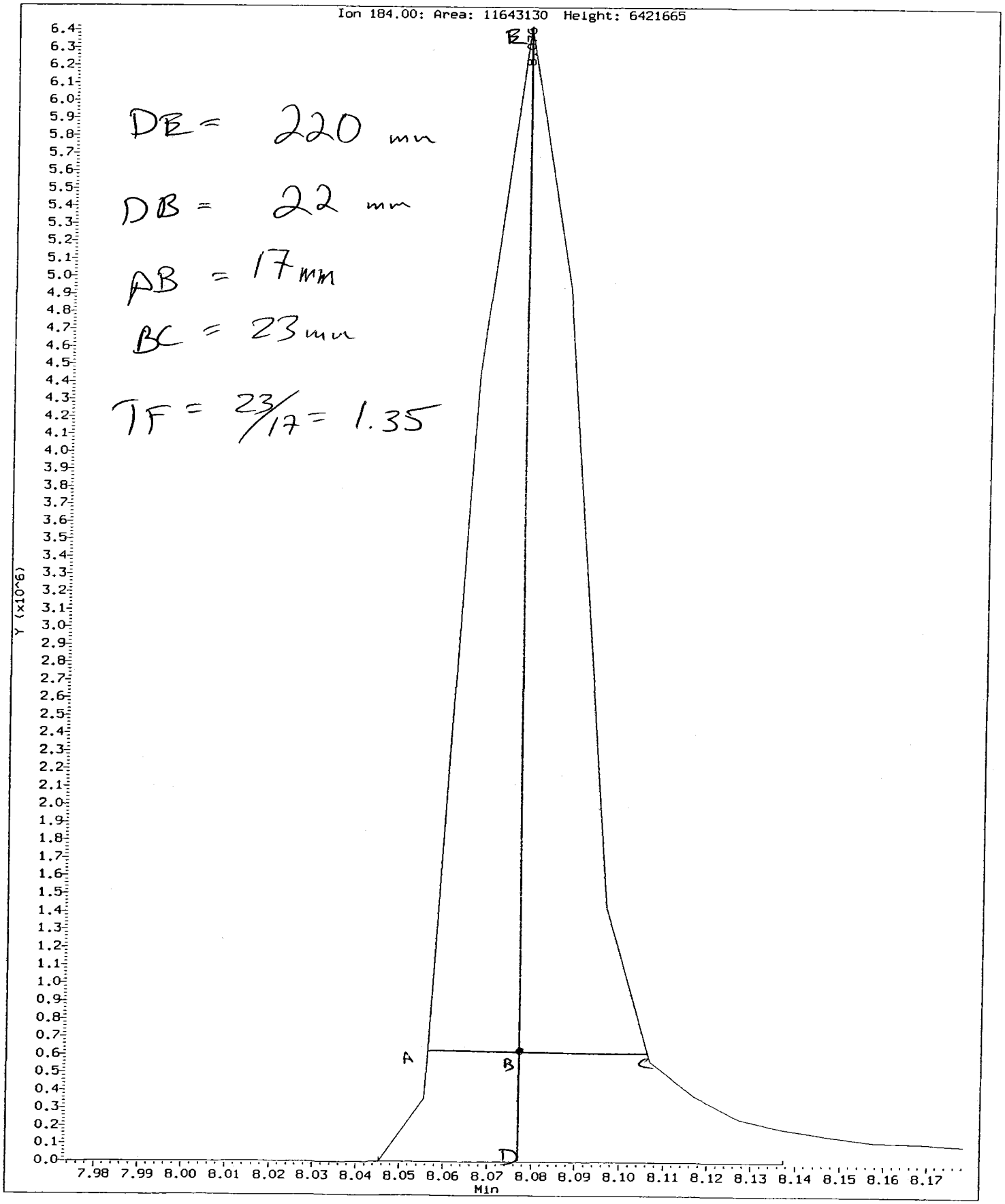
Data File: /chem3/nt1.i/20081008.b/ddt.b/df1008a.d
Injection Date: 08-OCT-2008 14:29
Instrument: nt1.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt1.i/20081008.b/ddt.b/df1008a.d
Injection Date: 08-OCT-2008 14:29
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt1.i/20081008.b/ddt.b/df1008a.d
Method: /chem3/nt1.i/20081008.b/ddt.b/sw846ddt.m
Analysis Date: 08-OCT-2008 14:29

ARI ID: DF1008
Misc:
Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	6.275	1695511
Benzidine	8.076	11643130
4,4'-DDE	8.362	15305
4,4'-DDD	8.772	227316
4,4'-DDT	9.130	4650520

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(15305 + 227316) * 100}{(15305 + 227316 + 4650520)}$$

DDT Percent Breakdown = 5.0 %

7B

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS86 Project: EDDON BOATYARD

Instrument ID: NT1 Cont. Calib. Date: 10/09/08

Init. Calib. Date: 10/08/08 Cont. Calib. Time: 0832

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Tributyl Tin (Hexyl)	0.641	0.629	0.100	1.9	
Dibutyl Tin (Hexyl)	0.041	0.045	0.100	-9.8	
Butyl Tin (Hexyl)	0.070	0.071	0.100	-1.4	
Tetrabutyl Tin	0.748	0.784	0.100	-4.8	
Tripropyl Tin (Hexyl)	0.767	0.802	0.100	-4.6	
Tripentyl Tin (Hexyl)	0.062	0.068	0.100	-9.7	

<- Outside QC limits

FORM VII SV-1

Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081009.b/cc1009.d
Lab Smp Id: CC1009
Inj Date : 09-OCT-2008 08:32
Operator : VTS Inst ID: nt1.i
Smp Info : CC1009
Misc Info : PW2
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081009.b/pw3ul.m
Meth Date : 09-Oct-2008 09:02 van Quant Type: ISTD
Cal Date : 08-OCT-2008 16:34 Cal File: ic1008f.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50
Processing Host: cserv3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng/mL)	AMOUNTS ON-COL (ng/mL)
$	1 Tripropyl Tin (Hexyl)	291	7.620	7.620	(0.824)	15992	25.0000	26.12
	2 Tetrabutyl Tin	289	7.840	7.840	(0.848)	15653	25.0000	26.22
	3 Tributyl Tin (Hexyl)	319	8.597	8.597	(0.930)	12553	25.0000	24.54
*	4 Tetrapentyl Tin	333	9.248	9.248	(1.000)	159620	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.288	9.288	(0.915)	16308	50.0000	55.65
$	6 Tripentyl Tin (Hexyl)	347	9.582	9.582	(0.944)	24399	50.0000	54.70
	7 Butyl Tin (Hexyl)	347	9.919	9.919	(0.977)	25673	50.0000	51.42
*	8 p-Terphenyl-d14	244	10.148	10.148	(1.000)	143858	20.0000	

VTS 10.9.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: cc1009.d
Lab Smp Id: CC1009
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081009.b/pw3ul.m
Misc Info: PW2

Calibration Date: 09-OCT-2008
Calibration Time: 08:32

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	159620	79810	319240	159620	0.00
8 p-Terphenyl-d14	143858	71929	287716	143858	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	0.00
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt1.i Injection Date: 09-OCT-2008 08:32
Lab File ID: cc1009.d Init. Cal. Date(s): 08-OCT-2008 08-OCT-2008
Analysis Type: Init. Cal. Times: 14:49 16:34
Lab Sample ID: CC1009 Quant Type: ISTD
Method: /chem3/nt1.i/20081009.b/pw3ul.m

COMPOUND	RRF / AMOUNT	RF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tripropyl Tin (Hexyl)	0.76701	0.80151	0.005	-4.49742	20.00000	Averaged
2 Tetrabutyl Tin	0.74789	0.78452	0.010	-4.89749	20.00000	Averaged
3 Tributyl Tin (Hexyl)	0.64089	0.62919	0.005	1.82576	20.00000	Averaged
5 Dibutyl Tin (Hexyl)	0.04074	0.04535	0.005	-11.30267	20.00000	Averaged
$ 6 Tripentyl Tin (Hexyl)	0.06201	0.06784	0.010	-9.40606	20.00000	Averaged
7 Butyl Tin (Hexyl)	0.06941	0.07139	0.005	-2.84810	20.00000	Averaged

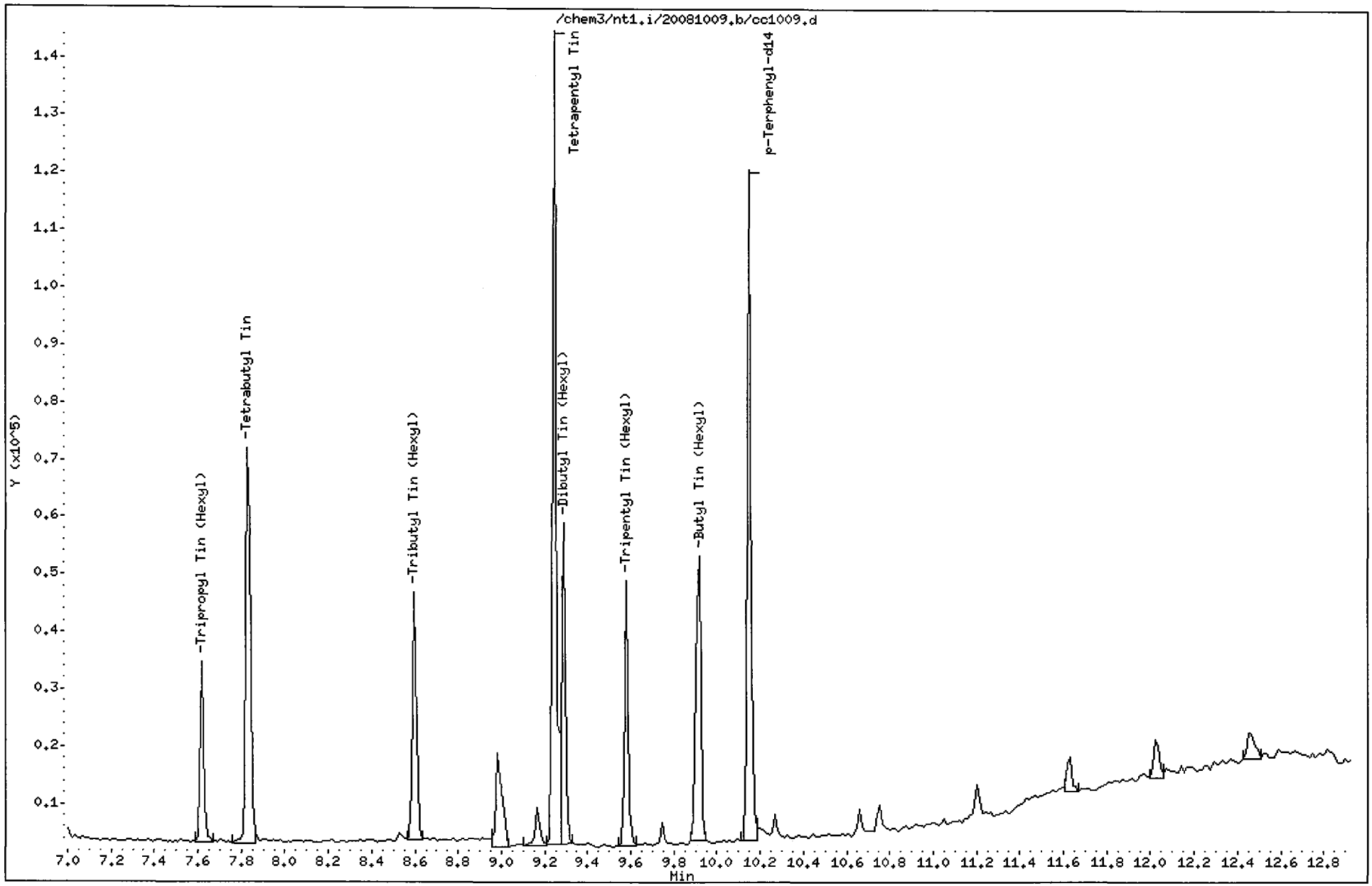
Data File: /chem3/nt1.i/20081009.b/cc1009.d
Date : 09-OCT-2008 08:32
Client ID:
Sample Info: CC1009

Instrument: nt1.i

Operator: VTS
Column diameter: 0.25

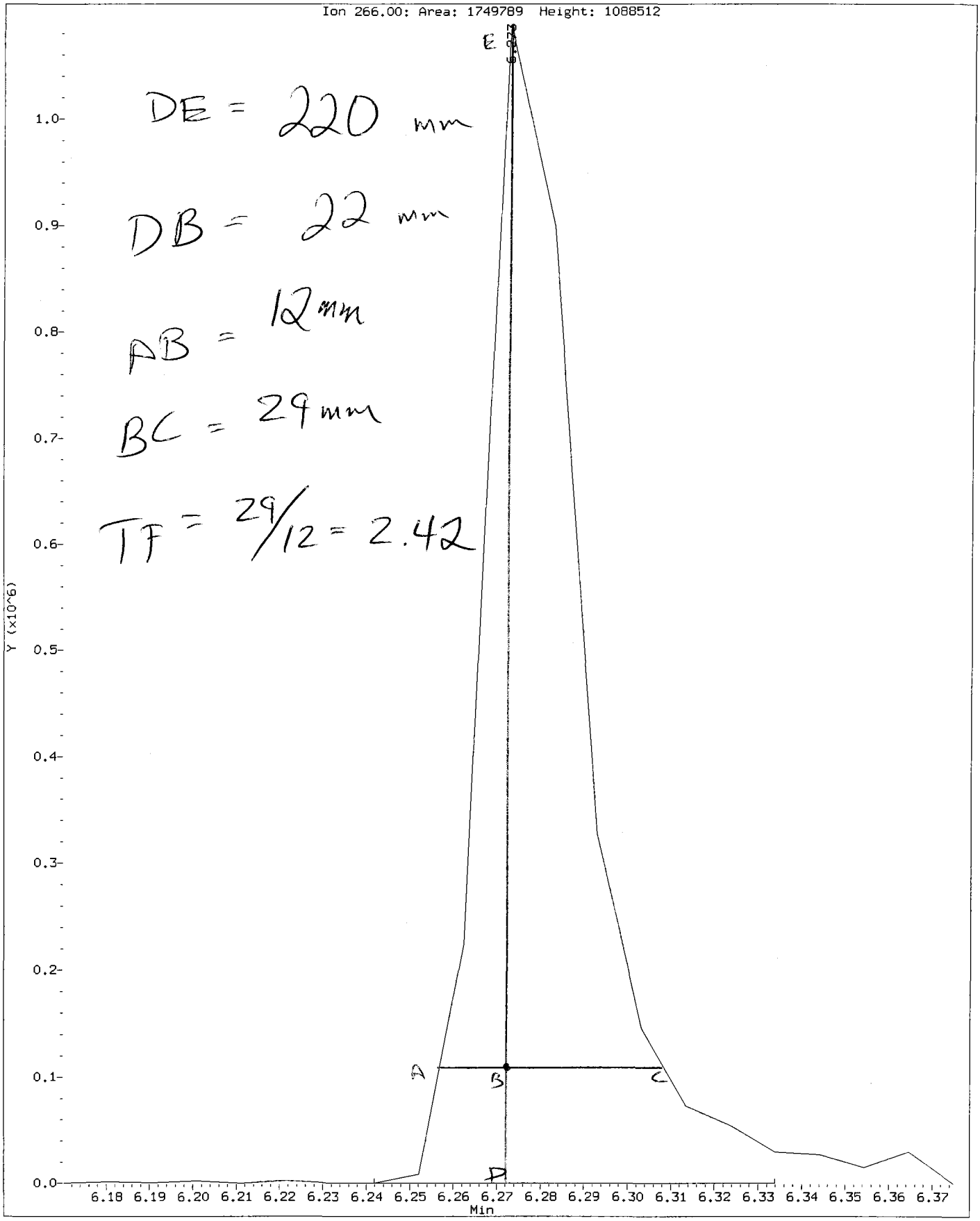
Column phase: ZB-5

0112



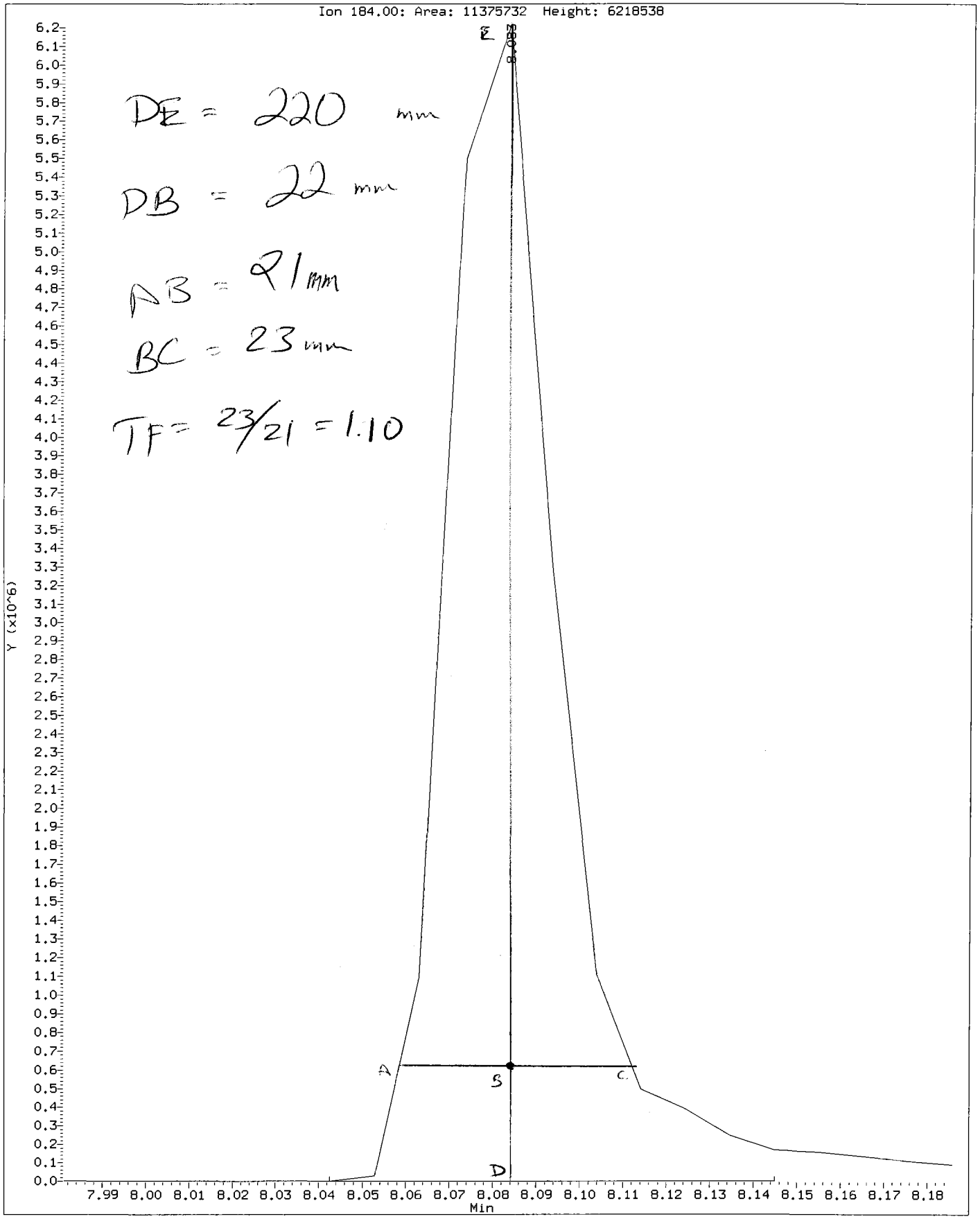
Data File: /chem3/nt1.i/20081009.b/ddt.b/df1009.d
Injection Date: 09-OCT-2008 08:13
Instrument: nt1.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt1.i/20081009.b/ddt.b/df1009.d
Injection Date: 09-OCT-2008 08:13
Instrument: nt1.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt1.i/20081009.b/ddt.b/df1009.d ARI ID: DF1009
Method: /chem3/nt1.i/20081009.b/ddt.b/sw846ddt.m Misc: PW100
Analysis Date: 09-OCT-2008 08:13 Instrument: nt1.i

COMPOUND	RT	AREA
Pentachlorophenol	6.273	1749788
Benzidine	8.083	11375731
4,4'-DDE	8.370	9376
4,4'-DDD	8.779	193736
4,4'-DDT	9.127	4471592

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(\ 9376 + 193736) * 100}{(\ 9376 + 193736 + 4471592)}$$

DDT Percent Breakdown = 4.3 %

TBT Analysis
QC Raw Data

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NS86

Prepared
By

Analytical Resources, Inc.

Data File: /chem3/nt1.i/20081008.b/df1008a.d

Date : 08-OCT-2008 14:29

Client ID:

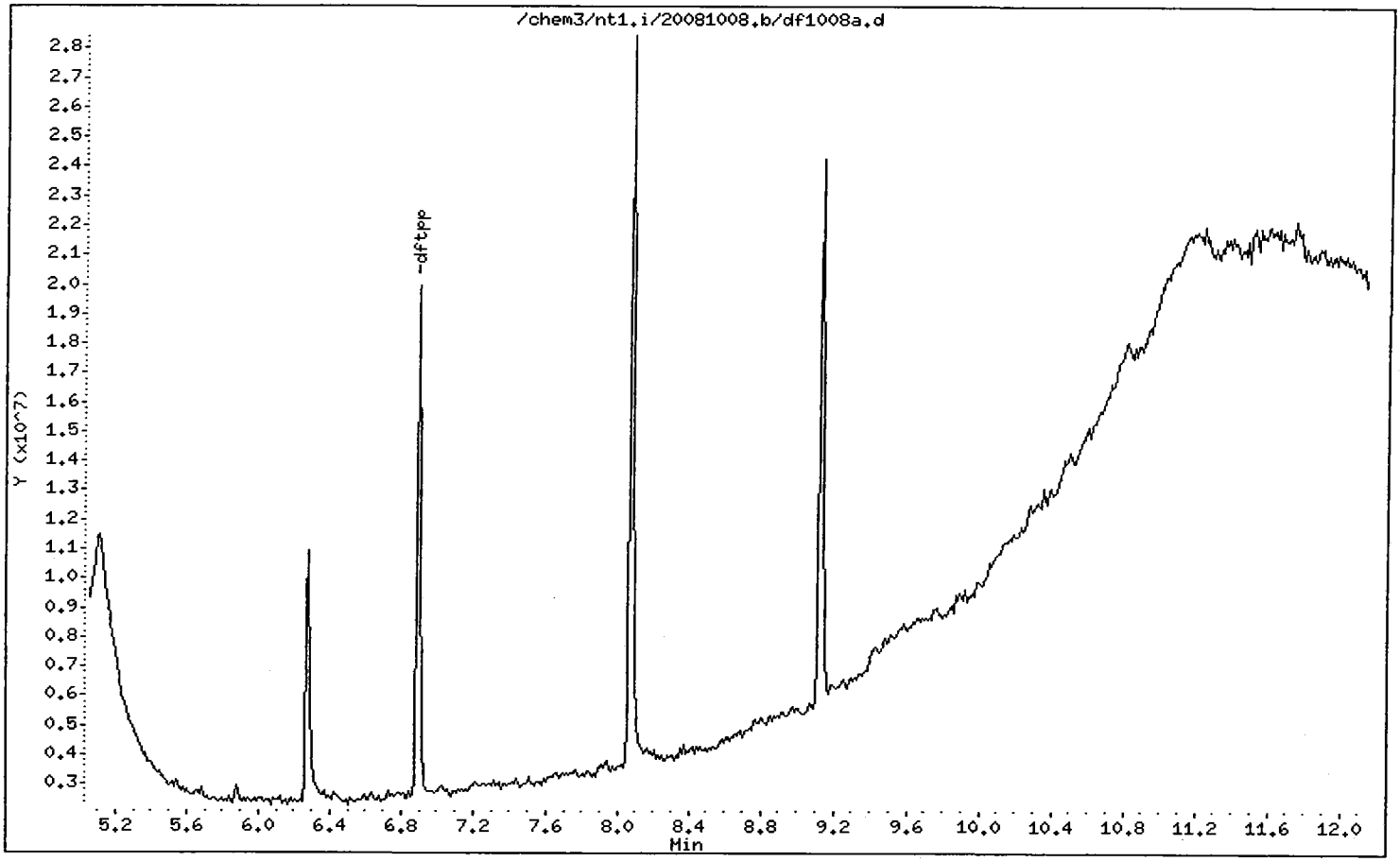
Instrument: nt1.i

Sample Info: DF1008

Operator: VTS

Column phase:

Column diameter: 0.25



Data File: /chem3/nt1.i/20081008.b/df1008a.d

Date : 08-OCT-2008 14:29

Client ID:

Sample Info: DF1008

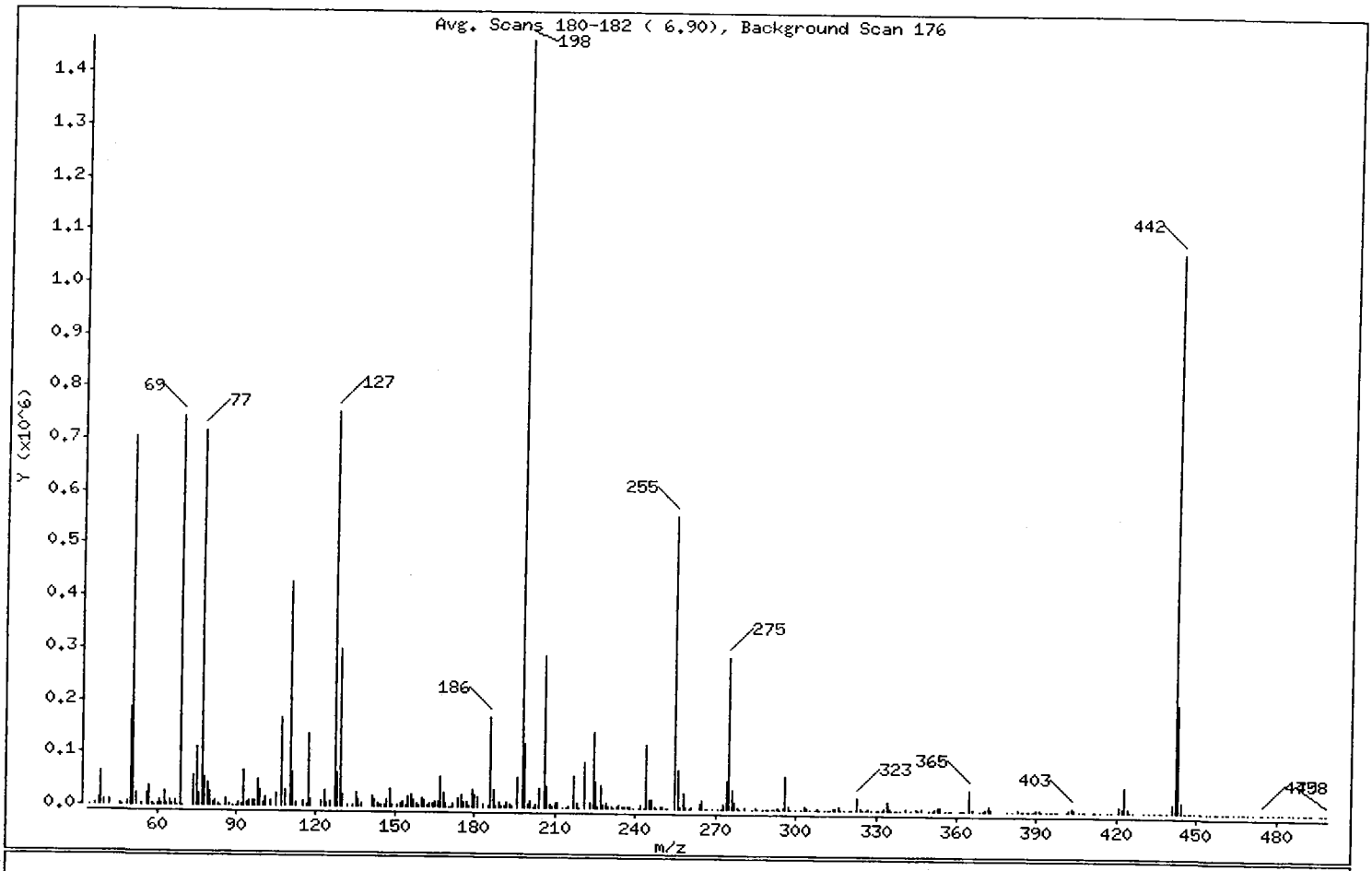
Instrument: nt1.i

Operator: VTS

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	48.12
68	Less than 2.00% of mass 69	0.05 (0.10)
69	Mass 69 relative abundance	50.82
70	Less than 2.00% of mass 69	0.05 (0.10)
127	25.00 - 75.00% of mass 198	51.45
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	8.23
275	10.00 - 30.00% of mass 198	19.71
365	Greater than 0.75% of mass 198	2.65
441	Present, but less than mass 443	1.24
442	40.00 - 110.00% of mass 198	72.97
443	15.00 - 24.00% of mass 442	14.04 (19.24)

Data File: /chem3/nt1.i/20081008.b/df1008a.d

Date : 08-OCT-2008 14:29

Client ID:

Instrument: nt1.i

Sample Info: DF1008

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1008a.d

Spectrum: Avg. Scans 180-182 (6.90), Background Scan 176

Location of Maximum: 198.00

Number of points: 351

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	1264	152.00	5746	251.00	1434	365.00	38856
37.00	2661	153.00	9876	252.00	1653	366.00	4950
38.00	13110	154.00	4945	255.00	559040	369.00	832
39.00	64616	155.00	20688	256.00	74744	370.00	1286
40.00	10576	156.00	22168	257.00	2430	371.00	2564
42.00	9197	157.00	12699	258.00	30032	372.00	11390
46.00	2813	158.00	6208	259.00	3517	373.00	2112
47.00	908	159.00	2670	260.00	359	379.00	540
49.00	5820	160.00	15472	261.00	1925	381.00	51
50.00	185536	161.00	13619	264.00	8694	383.00	3981
51.00	704832	162.00	2566	265.00	15937	384.00	212
52.00	22608	163.00	5081	266.00	1081	385.00	165
54.00	2619	164.00	6985	267.00	1104	386.00	580
56.00	25128	165.00	8486	269.00	304	387.00	505
57.00	36392	166.00	8502	271.00	597	388.00	188
58.00	4110	167.00	55728	272.00	1401	389.00	1076
59.00	1021	168.00	25480	273.00	11507	390.00	2006
60.00	3679	169.00	5274	274.00	54632	391.00	2083
61.00	11778	170.00	989	275.00	288640	392.00	1118
62.00	3422	171.00	1585	276.00	37760	394.00	616
63.00	26432	172.00	6610	277.00	14936	395.00	77
64.00	3221	174.00	17248	278.00	3353	396.00	659
65.00	9955	175.00	24256	279.00	669	397.00	614
66.00	4664	176.00	10800	281.00	1815	398.00	262
67.00	10178	177.00	9438	284.00	1279	401.00	1339
68.00	768	178.00	1711	285.00	2826	402.00	2881
69.00	744256	179.00	33296	286.00	815	403.00	6978
70.00	746	180.00	23864	288.00	254	404.00	2847
74.00	57880	181.00	21368	289.00	1467	406.00	1443
75.00	110784	183.00	8295	290.00	772	407.00	82
76.00	24848	185.00	3893	291.00	223	408.00	155
77.00	715584	186.00	172352	292.00	774	411.00	231
78.00	53888	187.00	34648	293.00	2557	412.00	219
79.00	43664	188.00	4659	294.00	1376	414.00	124
80.00	27944	189.00	9612	295.00	1769	417.00	158

Data File: /chem3/nt1.i/20081008.b/df1008a.d

Date : 08-OCT-2008 14:29

Client ID:

Instrument: nt1.i

Sample Info: DF1008

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1008a.d

Spectrum: Avg. Scans 180-182 (6.90), Background Scan 176

Location of Maximum: 198.00

Number of points: 351

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	7293	190.00	3787	296.00	63360	418.00	242
82.00	8488	191.00	3441	297.00	5365	421.00	10886
83.00	2618	192.00	10633	298.00	392	422.00	6161
84.00	485	193.00	7747	300.00	133	423.00	45584
86.00	14221	194.00	4897	302.00	224	424.00	8125
87.00	2066	196.00	56576	303.00	7624	425.00	1260
89.00	1603	198.00	1464320	304.00	4892	426.00	225
90.00	341	199.00	120592	305.00	1121	430.00	348
91.00	8238	200.00	7793	307.00	870	432.00	853
92.00	4104	201.00	11956	308.00	3529	434.00	369
93.00	65696	202.00	822	309.00	191	436.00	133
94.00	8201	203.00	5846	311.00	193	437.00	107
95.00	9858	204.00	35768	312.00	304	439.00	71
96.00	8489	206.00	290112	313.00	1227	441.00	18224
97.00	10458	207.00	39328	314.00	2326	442.00	1068544
98.00	50624	208.00	8085	315.00	1850	443.00	205568
99.00	31544	209.00	2398	316.00	6282	444.00	20024
100.00	5065	210.00	9500	317.00	619	446.00	205
101.00	18392	211.00	11521	318.00	821	447.00	277
103.00	10523	213.00	978	320.00	274	448.00	302
105.00	25096	214.00	447	321.00	1143	449.00	317
107.00	167488	215.00	2898	323.00	23384	451.00	432
108.00	31320	217.00	61264	324.00	4236	452.00	1007
110.00	427392	218.00	11096	325.00	262	454.00	181
111.00	65200	219.00	843	326.00	1236	455.00	365
112.00	8209	221.00	88288	327.00	1706	457.00	361
115.00	8427	223.00	9724	328.00	582	458.00	588
116.00	1817	224.00	144960	330.00	758	460.00	656
117.00	136512	225.00	48968	331.00	428	461.00	219
118.00	13119	226.00	3067	332.00	1346	462.00	84
122.00	9038	227.00	44160	333.00	2283	464.00	342
123.00	30776	228.00	7570	334.00	17680	466.00	190
124.00	5492	229.00	10002	335.00	3993	467.00	384
125.00	9796	230.00	1849	336.00	651	468.00	229
127.00	753472	231.00	3100	337.00	580	469.00	291

Data File: /chem3/nt1.i/20081008.b/df1008a.d

Date : 08-OCT-2008 14:29

Client ID:

Instrument: nt1.i

Sample Info: DF1008

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1008a.d
Spectrum: Avg. Scans 180-182 (6.90), Background Scan 176
Location of Maximum: 198.00
Number of points: 351

m/z	Y	m/z	Y	m/z	Y	m/z	Y
128.00	62744	232.00	1391	338.00	258	471.00	119
129.00	298816	233.00	2710	339.00	1219	474.00	628
130.00	23600	234.00	5822	341.00	2215	475.00	1079
132.00	2186	235.00	1897	343.00	594	477.00	76
134.00	3403	236.00	2440	345.00	4559	479.00	647
135.00	26256	237.00	1846	346.00	801	481.00	203
136.00	11921	238.00	1831	347.00	1816	482.00	510
137.00	7284	239.00	1660	350.00	377	485.00	129
141.00	20856	241.00	1503	351.00	573	486.00	170
142.00	13042	242.00	7067	352.00	2380	488.00	281
143.00	6969	243.00	978	353.00	5647	490.00	133
144.00	2997	244.00	122640	354.00	6698	491.00	308
145.00	4363	245.00	16464	356.00	301	492.00	215
146.00	3833	246.00	16198	357.00	450	493.00	1067
147.00	14892	247.00	1708	358.00	304	496.00	420
148.00	34312	248.00	824	361.00	580	497.00	185
149.00	4869	249.00	4051	362.00	319	498.00	294
151.00	3435	250.00	3197	363.00	150		

Data File: /chem3/nt1.i/20081009.b/df1009.d

Date : 09-OCT-2008 08:13

Client ID:

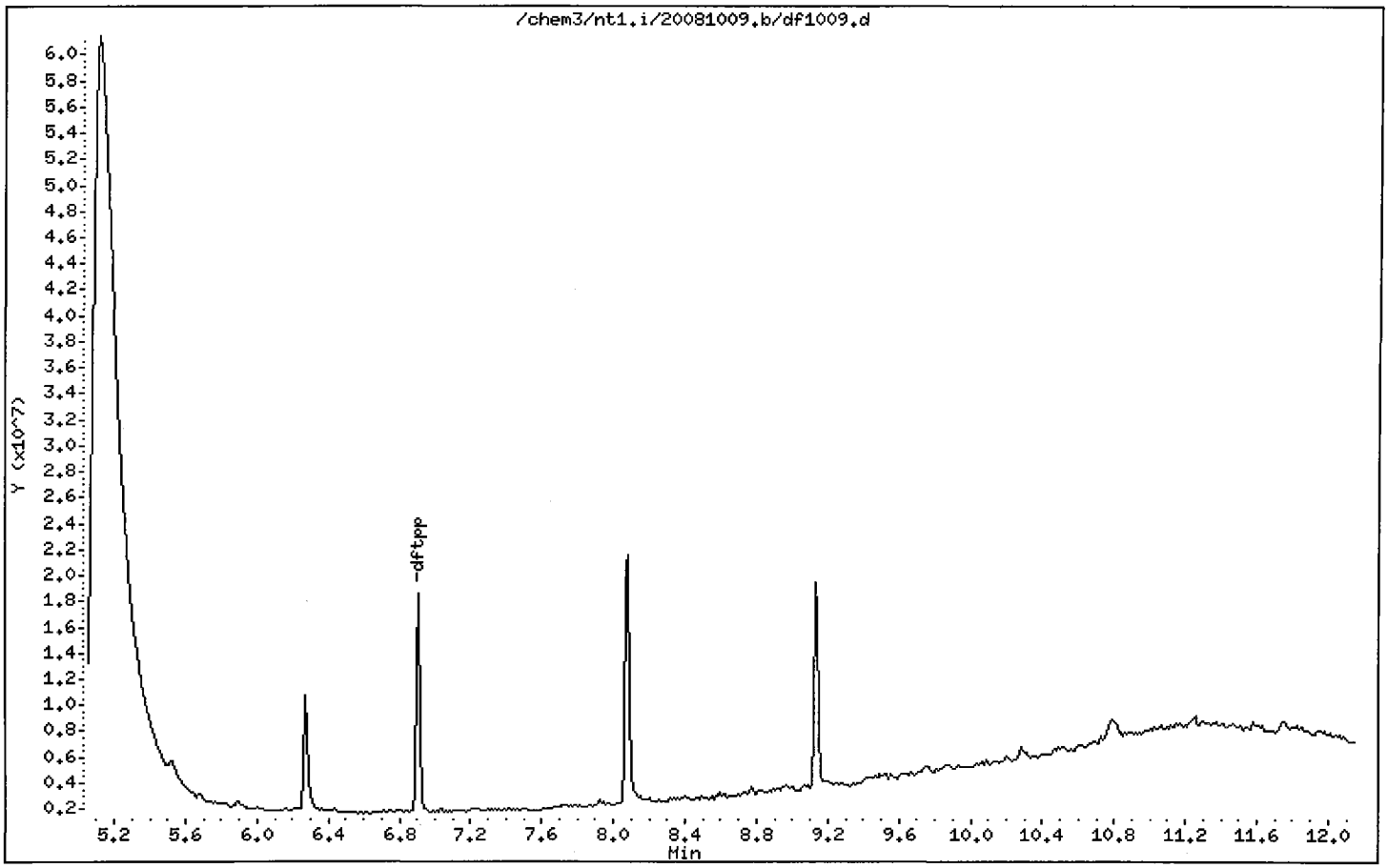
Instrument: nt1.i

Sample Info: DF1009

Operator: VTS

Column phase:

Column diameter: 0.25



Data File: /chem3/nt1.i/20081009.b/df1009.d

Date : 09-OCT-2008 08:13

Client ID:

Instrument: nt1.i

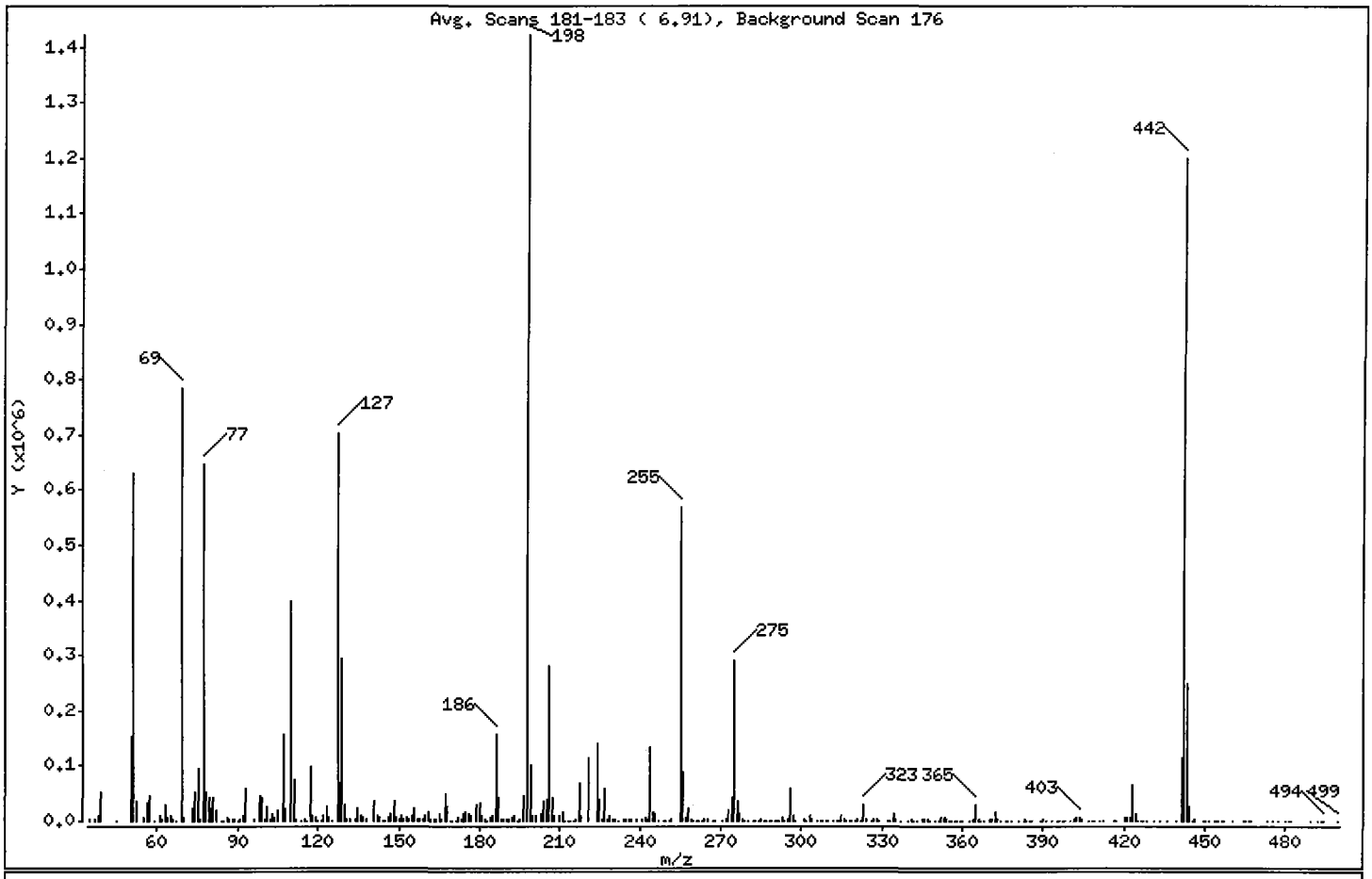
Sample Info: DF1009

Operator: VTS

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	44.27
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	55.08
70	Less than 2.00% of mass 69	0.42 (0.76)
127	25.00 - 75.00% of mass 198	49.31
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.23
275	10.00 - 30.00% of mass 198	20.35
365	Greater than 0.75% of mass 198	2.04
441	Present, but less than mass 443	8.12
442	40.00 - 110.00% of mass 198	84.31
443	15.00 - 24.00% of mass 442	17.49 (20.74)

Date : 09-OCT-2008 08:13

Client ID: Instrument: nt1.i

Sample Info: DF1009

Operator: VTS

Column phase: Column diameter: 0.25

Data File: df1009.d
Spectrum: Avg. Scans 181-183 (6.91), Background Scan 176
Location of Maximum: 198.00
Number of points: 350

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	3982	151.00	8412	251.00	579	357.00	500
37.00	2209	152.00	2750	252.00	2052	358.00	776
38.00	8194	153.00	5019	255.00	568064	359.00	70
39.00	52824	154.00	3391	256.00	88648	360.00	793
45.00	1069	155.00	10979	257.00	7621	363.00	184
50.00	152384	156.00	21824	258.00	22240	364.00	4442
51.00	629312	157.00	2244	259.00	4640	365.00	29000
52.00	34312	158.00	2177	260.00	1001	366.00	3935
55.00	7592	159.00	3835	261.00	1367	367.00	216
56.00	34248	160.00	10238	262.00	1343	368.00	123
57.00	46264	161.00	16808	263.00	1299	370.00	2575
59.00	1226	162.00	2727	264.00	2047	371.00	3415
61.00	10435	163.00	2581	265.00	4759	372.00	15699
62.00	2360	164.00	4394	267.00	24	373.00	1879
63.00	30080	165.00	11778	268.00	324	374.00	88
64.00	6657	166.00	3243	271.00	1328	376.00	272
65.00	10947	167.00	47784	272.00	2408	377.00	49
66.00	2777	168.00	25928	273.00	19528	378.00	797
67.00	906	169.00	793	274.00	43584	381.00	253
69.00	782976	170.00	837	275.00	289216	383.00	1781
70.00	5942	171.00	633	276.00	37560	384.00	1324
73.00	24008	172.00	5271	277.00	14673	385.00	474
74.00	52984	173.00	3515	278.00	2484	386.00	235
75.00	94904	174.00	13471	279.00	546	389.00	863
76.00	4369	175.00	16139	280.00	751	390.00	2302
77.00	647232	176.00	11654	282.00	796	391.00	1225
78.00	52008	177.00	8852	283.00	387	393.00	57
79.00	41888	179.00	28160	284.00	944	395.00	244
80.00	24352	180.00	32656	285.00	4236	396.00	214
81.00	42648	181.00	10724	286.00	448	397.00	346
82.00	18112	182.00	2235	287.00	621	398.00	563
84.00	930	183.00	1207	288.00	732	400.00	391
85.00	720	184.00	7166	289.00	992	401.00	1832
86.00	5754	185.00	9811	290.00	588	402.00	7019
87.00	1821	186.00	158144	291.00	733	403.00	8002

Date : 09-OCT-2008 08:13

Client ID: Instrument: nt1.i

Sample Info: DF1009

Operator: VTS

Column phase: Column diameter: 0.25

Data File: df1009.d
Spectrum: Avg. Scans 181-183 (6.91), Background Scan 176
Location of Maximum: 198.00
Number of points: 350

m/z	Y	m/z	Y	m/z	Y	m/z	Y
88.00	4132	187.00	41184	292.00	388	404.00	3222
89.00	1849	188.00	2529	293.00	6677	407.00	223
90.00	485	189.00	4044	294.00	1053	408.00	580
91.00	4501	190.00	1661	295.00	2746	409.00	198
92.00	10067	191.00	2253	296.00	59688	411.00	255
93.00	57256	192.00	5986	297.00	10044	412.00	191
96.00	3235	193.00	10052	298.00	312	416.00	264
98.00	44512	194.00	280	301.00	2985	417.00	668
99.00	41568	195.00	2083	302.00	745	420.00	6448
100.00	2683	196.00	45280	303.00	10569	421.00	7923
101.00	25200	198.00	1421312	304.00	2095	422.00	5831
102.00	1941	199.00	102720	306.00	284	423.00	63968
103.00	12904	200.00	8583	307.00	763	424.00	13192
104.00	6471	201.00	10331	308.00	855	425.00	123
105.00	18392	203.00	14500	309.00	170	426.00	227
107.00	155584	204.00	35416	310.00	1456	427.00	278
108.00	22384	205.00	39496	312.00	568	428.00	367
110.00	398720	206.00	280192	313.00	1236	431.00	69
111.00	73560	207.00	41720	314.00	1506	433.00	152
112.00	2805	208.00	10209	315.00	9829	436.00	275
114.00	131	210.00	10857	316.00	4325	439.00	632
115.00	1883	211.00	15474	317.00	703	441.00	115368
116.00	158	212.00	863	318.00	266	442.00	1198080
117.00	99256	213.00	962	319.00	394	443.00	248512
118.00	8307	214.00	253	320.00	474	444.00	24784
119.00	6375	215.00	1223	321.00	3895	445.00	919
120.00	1379	216.00	1887	322.00	552	446.00	2718
121.00	1556	217.00	69216	323.00	28456	449.00	75
122.00	10308	218.00	8700	324.00	3371	450.00	680
123.00	24672	221.00	112984	326.00	26	451.00	345
124.00	7987	224.00	140096	327.00	3085	453.00	150
125.00	1317	225.00	37648	328.00	1655	454.00	488
127.00	700864	226.00	3814	329.00	1051	455.00	1382
128.00	69800	227.00	57584	332.00	1111	456.00	274
129.00	295168	228.00	4191	333.00	868	457.00	771

Date : 09-OCT-2008 08:13

Client ID: Instrument: nt1.i

Sample Info: DF1009

Operator: VTS

Column phase: Column diameter: 0.25

Data File: df1009.d
Spectrum: Avg. Scans 181-183 (6.91), Background Scan 176
Location of Maximum: 198.00
Number of points: 350

m/z	Y	m/z	Y	m/z	Y	m/z	Y
130.00	28008	229.00	10233	334.00	13265	460.00	34
131.00	3490	230.00	1798	335.00	2228	464.00	390
132.00	1909	231.00	4899	337.00	426	465.00	126
134.00	3130	232.00	1361	340.00	411	466.00	65
135.00	21320	234.00	4769	341.00	1646	467.00	177
136.00	9101	235.00	2042	342.00	867	473.00	164
137.00	6936	236.00	2459	343.00	162	475.00	366
138.00	3408	237.00	3965	345.00	2868	477.00	359
141.00	35104	239.00	3149	346.00	2855	480.00	261
142.00	8252	241.00	3933	347.00	1852	481.00	120
143.00	5055	242.00	5537	348.00	99	482.00	317
144.00	1165	243.00	3219	350.00	582	489.00	265
145.00	876	244.00	132864	351.00	193	492.00	303
146.00	7140	245.00	16936	352.00	6356	493.00	331
147.00	13402	246.00	11708	353.00	7592	494.00	496
148.00	35968	247.00	1252	354.00	2336	499.00	57
149.00	7672	249.00	1468	355.00	701		
150.00	2466	250.00	555	356.00	112		

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: MB-100708
METHOD BLANK

Lab Sample ID: MB-100708
LIMS ID: 08-26451
Matrix: Pore Water
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS86-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 16:54
Instrument/Analyst: NT1/VTS

Sample Amount: 100 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyl Tin Ion	0.008	< 0.008	U
DBT_ION	Dibutyl Tin Ion	0.012	< 0.012	U
BT_ION	Butyl Tin Ion	0.008	< 0.008	U

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	78.3%
Tripentyl Tin Chloride	78.2%

Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ns86mb.d
Lab Smp Id: NS86MBW1 Client Smp ID: NS86MBW1
Inj Date : 08-OCT-2008 16:54
Operator : VTS Inst ID: nt1.i
Smp Info : NS86MBW1
Misc Info : 08-26451
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 07:44 van Quant Type: ISTD
Cal Date : 08-OCT-2008 16:34 Cal File: ic1008f.d
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	0.50000	Final Extract Volume (mL)
Vo	0.04000	Volume Extracted (L)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	FINAL (ug/L)
$ 1 Tripropyl Tin (Hexyl)	291	7.620	7.617	(0.824)	14352	23.0170	287.7
2 Tetrabutyl Tin	289	Compound Not Detected.					
3 Tributyl Tin (Hexyl)	319	Compound Not Detected.					
* 4 Tetrapentyl Tin	333	9.248	9.248	(1.000)	162589	200.000	
5 Dibutyl Tin (Hexyl)	347	Compound Not Detected.					
$ 6 Tripentyl Tin (Hexyl)	347	9.583	9.583	(0.944)	10504	22.1752	277.2
7 Butyl Tin (Hexyl)	347	Compound Not Detected.					
* 8 p-Terphenyl-d14	244	10.149	10.149	(1.000)	152778	20.0000	

VTS
10.9.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ns86mb.d
Lab Smp Id: NS86MBW1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: 08-26451

Calibration Date: 08-OCT-2008
Calibration Time: 14:49
Client Smp ID: NS86MBW1
Level: LOW
Sample Type: Liquid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	162589	-26.74
8 p-Terphenyl-d14	218922	109461	437844	152778	-30.21

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	0.00
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: LIQUID
Lab Smp Id: NS86MBW1
Level: LOW
Data Type: MS DATA
SpikeList File: PW.spk
Sublist File: PW.sub
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: 08-26451

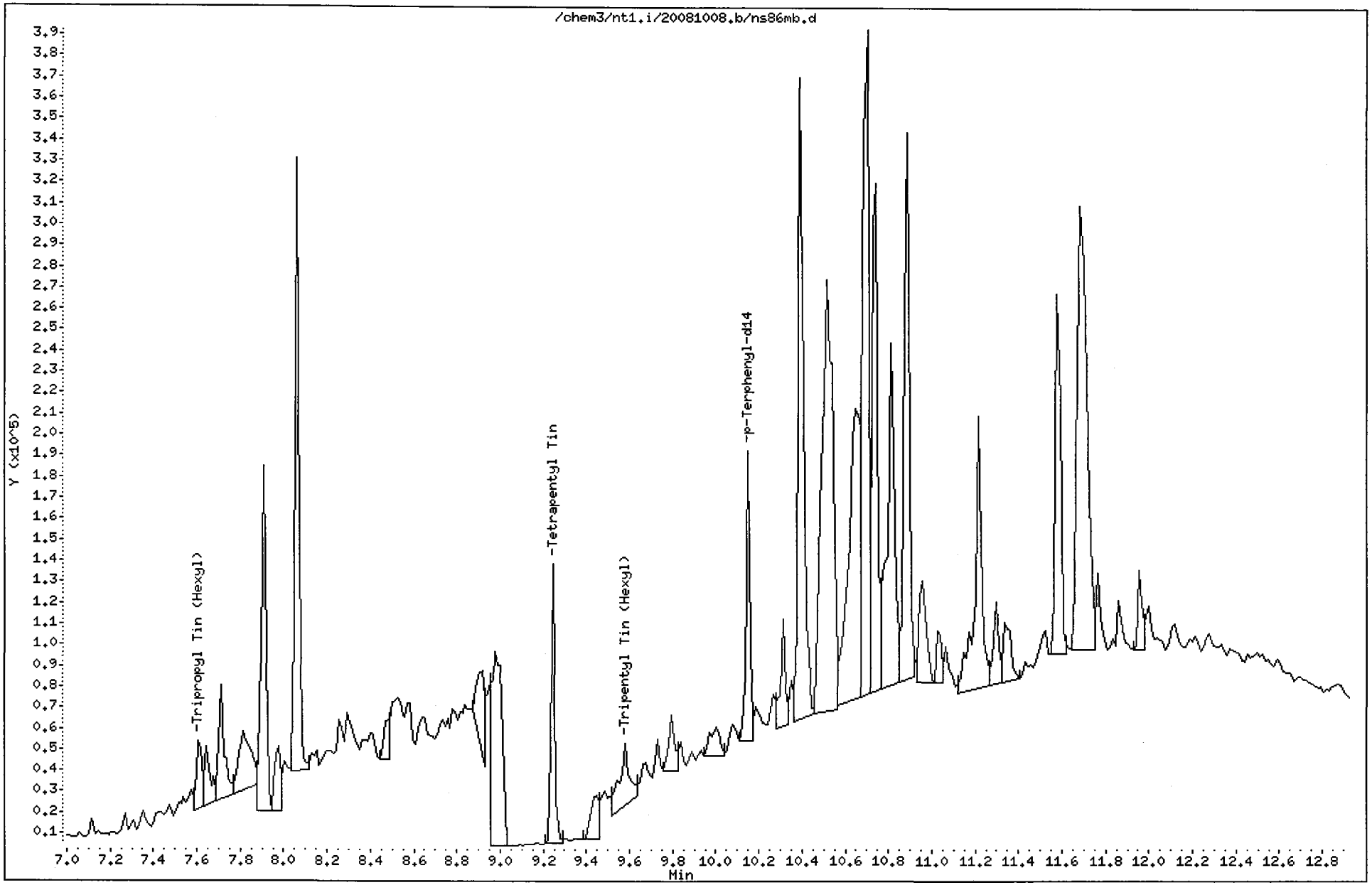
Client SDG: NS86
Fraction: SV
Client Smp ID: NS86MBW1
Operator: VTS
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 1 Tripropyl Tin (Hex	312.5	287.7	92.07	30-108
$ 6 Tripentyl Tin (Hex	312.5	277.2	88.70	23-97

Data File: /chem3/nt1.i/20081008.b/ns86mb.d
Date : 08-OCT-2008 16:54
Client ID: NS86MBW1
Sample Info: NS86MBW1
Purge Volume: 0.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

0131



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: EB-SEO2-A-081003
MATRIX SPIKE

Lab Sample ID: NS86B
LIMS ID: 08-26451
Matrix: Pore Water
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS86-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/06/08
Date Received: 10/06/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 18:13
Instrument/Analyst: NT1/VTS

Sample Amount: 100 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyl Tin Ion	0.008	---	
DBT_ION	Dibutyl Tin Ion	0.012	---	
BT_ION	Butyl Tin Ion	0.008	---	

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	75.6%
Tripentyl Tin Chloride	81.4%

Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ns86bms.d
Lab Smp Id: NS86BMS Client Smp ID: EB-SEO2-A-08100 MS
Inj Date : 08-OCT-2008 18:13
Operator : VTS Inst ID: nt1.i
Smp Info : NS86BMS
Misc Info : 08-26451
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 07:44 van Quant Type: ISTD
Cal Date : 08-OCT-2008 16:34 Cal File: ic1008f.d
Als bottle: 10 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	0.50000	Final Extract Volume (mL)
Vo	100.00000	Volume Extracted (L)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ug/L)
$	1 Tripropyl Tin (Hexyl)	291	7.618	7.617	(0.824)	14347	22.2427	0.1112
	2 Tetrabutyl Tin	289	Compound Not Detected.					
	3 Tributyl Tin (Hexyl)	319	8.596	8.607	(0.929)	29469	54.6780	0.2734(R)
*	4 Tetrapentyl Tin	333	9.249	9.248	(1.000)	168190	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.289	9.289	(0.915)	20854	65.8817	0.3294
$	6 Tripentyl Tin (Hexyl)	347	9.583	9.583	(0.944)	11118	23.0772	0.1154
	7 Butyl Tin (Hexyl)	347	9.920	9.920	(0.977)	27554	51.0956	0.2555(R)
*	8 p-Terphenyl-d14	244	10.149	10.149	(1.000)	155388	20.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

VTS
10.9.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ns86bms.d
Lab Smp Id: NS86BMS
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: 08-26451

Calibration Date: 08-OCT-2008
Calibration Time: 14:49
Client Smp ID: EB-SEO2-A-08100
Level: LOW
Sample Type: Pore Water

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	168190	-24.22
8 p-Terphenyl-d14	218922	109461	437844	155388	-29.02

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	0.00
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: LIQUID
Lab Smp Id: NS86BMS
Level: LOW
Data Type: MS DATA
SpikeList File: PW.spk
Sublist File: PW.sub
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: 08-26451

Client SDG: NS86
Fraction: SV
Client Smp ID: EB-SEO2-A-08100 MS
Operator: VTS
SampleType: MS
Quant Type: ISTD

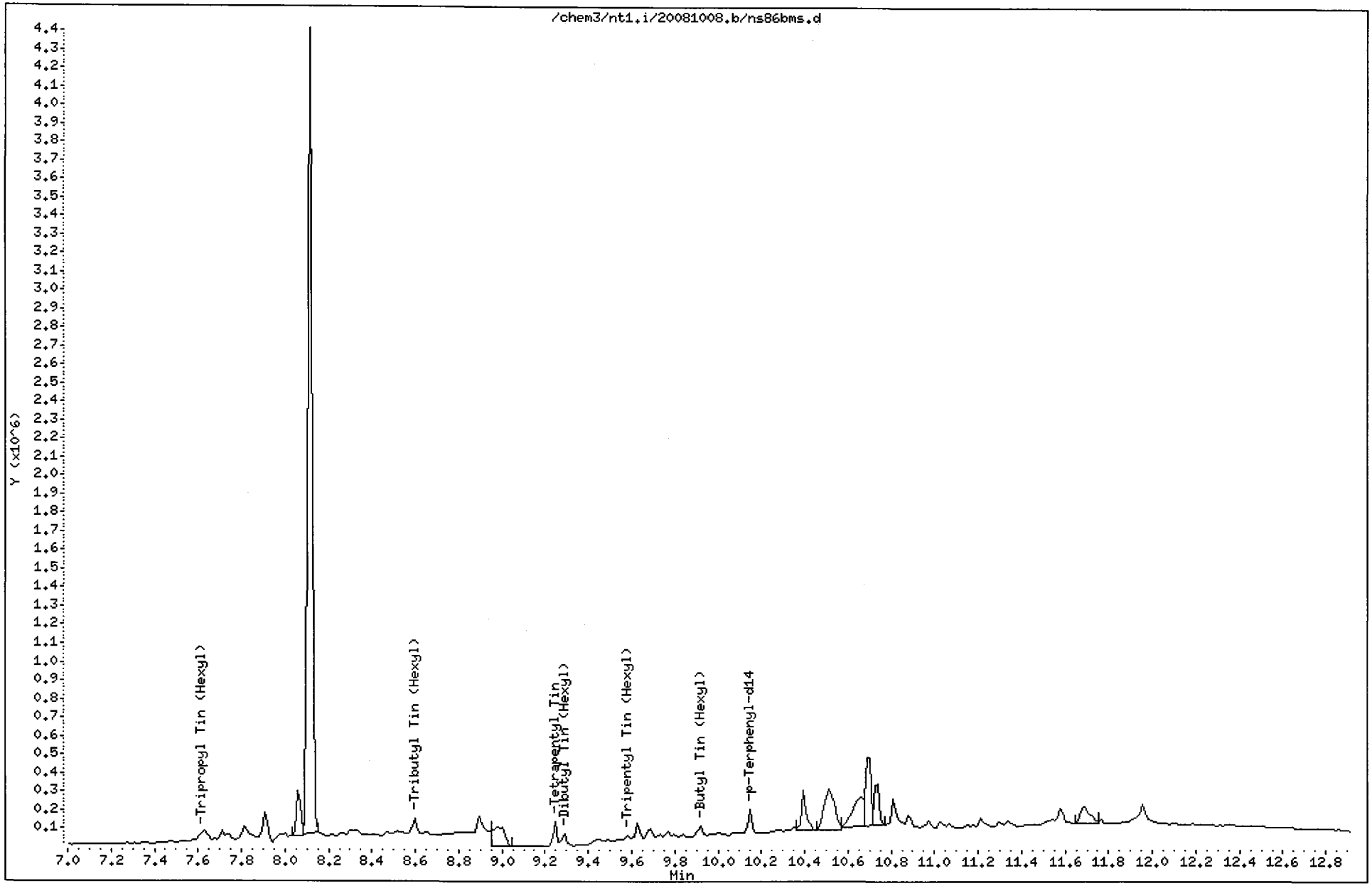
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
3 Tributyl Tin (Hexy	0.1250	0.2734	218.71*	10-147
5 Dibutyl Tin (Hexyl	0.2500	0.3294	131.76	10-142
7 Butyl Tin (Hexyl)	0.2500	0.2555	102.19*	10-91

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 1 Tripropyl Tin (Hex	0.1250	0.1112	88.97	30-108
$ 6 Tripentyl Tin (Hex	0.1250	0.1154	92.31	23-97

Data File: /chem3/nt1.i/20081008.b/ns86bms.d
Date : 08-OCT-2008 18:13
Client ID: EB-SED2-A-08100 MS
Sample Info: NS86BMS
Purge Volume: 100.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

0136



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Tributyl Tins by Krone 1988 SIM GC/MS
Page 1 of 1

Sample ID: EB-SEO2-A-081003
MATRIX SPIKE DUP

Lab Sample ID: NS86B
LIMS ID: 08-26451
Matrix: Pore Water
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS86-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/06/08
Date Received: 10/06/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 18:32
Instrument/Analyst: NT1/VTS

Sample Amount: 100 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: Yes

CAS Number	Analyte	RL	Result	Q
TBT_ION	Tributyl Tin Ion	0.008	---	
DBT_ION	Dibutyl Tin Ion	0.012	---	
BT_ION	Butyl Tin Ion	0.008	---	

Reported in µg/L (ppb)

TBT Surrogate Recovery

Tripropyl Tin Chloride	87.8%
Tripentyl Tin Chloride	96.2%

Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ns86bmsd.d
Lab Smp Id: NS86BMSD Client Smp ID: EB-SEO2-A-08100 MSD
Inj Date : 08-OCT-2008 18:32
Operator : VTS Inst ID: nt1.i
Smp Info : NS86BMSD
Misc Info : 08-26451
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 07:44 van Quant Type: ISTD
Cal Date : 08-OCT-2008 16:34 Cal File: ic1008f.d
Als bottle: 11 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	0.50000	Final Extract Volume (mL)
Vo	100.00000	Volume Extracted (L)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ug/L)
$	1 Tripropyl Tin (Hexyl)	291	7.618	7.617	(0.824)	15483	25.8098	0.1290
	2 Tetrabutyl Tin	289	Compound Not Detected.					
	3 Tributyl Tin (Hexyl)	319	8.596	8.607	(0.929)	29200	58.2549	0.2913(R)
*	4 Tetrapentyl Tin	333	9.249	9.248	(1.000)	156422	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.289	9.289	(0.915)	22380	73.0412	0.3652(R)
$	6 Tripentyl Tin (Hexyl)	347	9.583	9.583	(0.944)	12753	27.3464	0.1367(R)
	7 Butyl Tin (Hexyl)	347	9.920	9.920	(0.977)	32170	61.6285	0.3081(R)
*	8 p-Terphenyl-d14	244	10.149	10.149	(1.000)	150413	20.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

VTS
10.9.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ns86bmsd.d
Lab Smp Id: NS86BMSD
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: 08-26451

Calibration Date: 08-OCT-2008
Calibration Time: 14:49
Client Smp ID: EB-SEO2-A-08100
Level: LOW
Sample Type: Pore Water

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	156422	-29.52
8 p-Terphenyl-d14	218922	109461	437844	150413	-31.29

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	0.01
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: LIQUID
Lab Smp Id: NS86BMSD
Level: LOW
Data Type: MS DATA
SpikeList File: PW.spk
Sublist File: PW.sub
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: 08-26451

Client SDG: NS86
Fraction: SV
Client Smp ID: EB-SEO2-A-08100 MSD
Operator: VTS
SampleType: MSD
Quant Type: ISTD

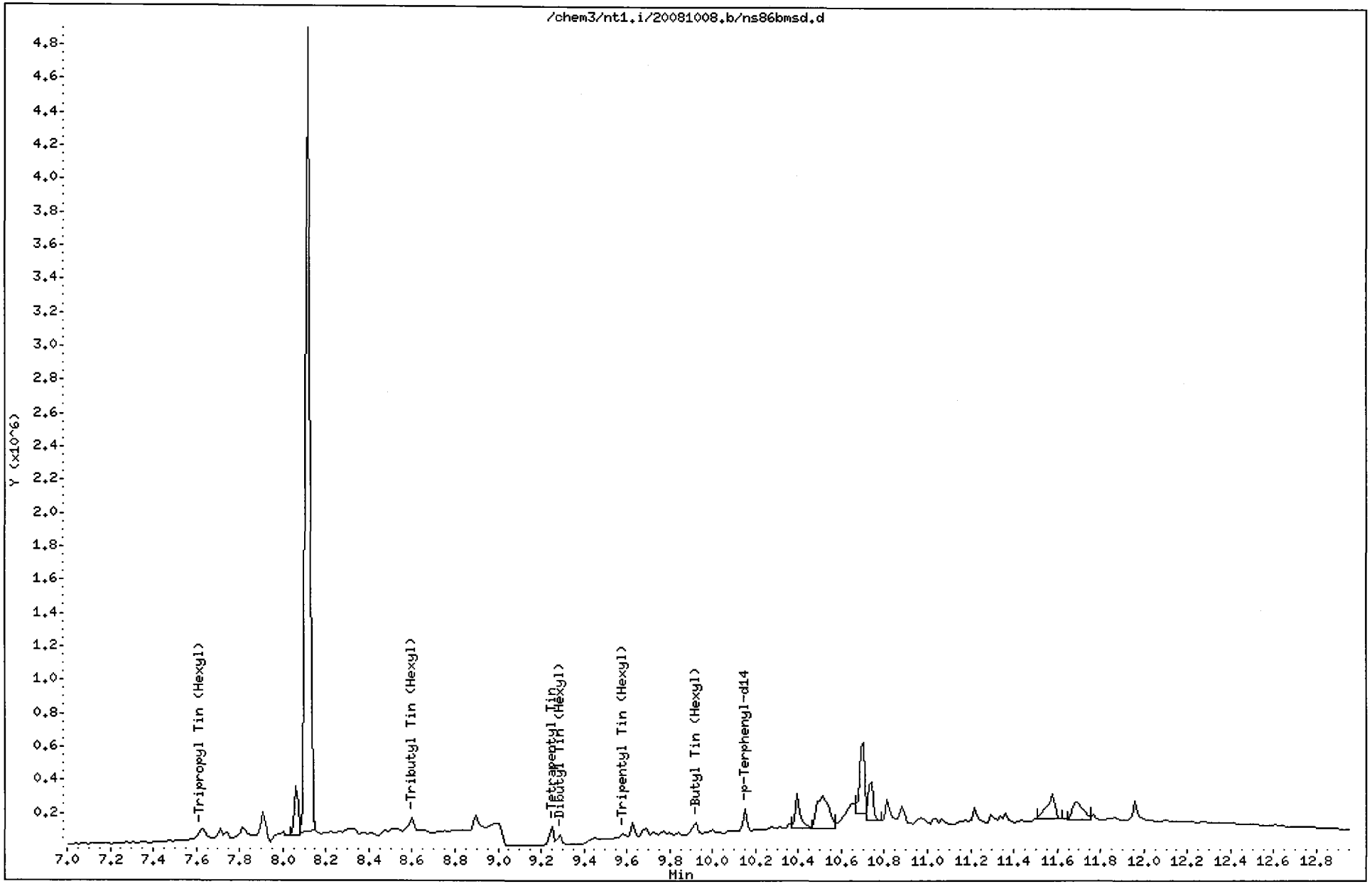
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
3 Tributyl Tin (Hexy	0.1250	0.2913	233.02*	10-147
5 Dibutyl Tin (Hexyl	0.2500	0.3652	146.08*	10-142
7 Butyl Tin (Hexyl)	0.2500	0.3081	123.26*	10-91

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 1 Tripropyl Tin (Hex	0.1250	0.1290	103.24	30-108
$ 6 Tripentyl Tin (Hex	0.1250	0.1367	109.39*	23-97

Data File: /chem3/nt1.i/20081008.b/ns86bmsd.d
Date : 08-OCT-2008 18:32
Client ID: EB-SE02-A-08100 MSD
Sample Info: NS86BMSD
Purge Volume: 100.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

0141



Analytical Resources, Inc.

Butyl Tin Species in Pore Water - GC/MS SIM

Data file : /chem3/nt1.i/20081008.b/ns86sb.d
Lab Smp Id: NS86LCSW1 Client Smp ID: NS86LCSW1
Inj Date : 08-OCT-2008 17:14
Operator : VTS Inst ID: nt1.i
Smp Info : NS86LCSW1
Misc Info : 08-26451
Comment : 3 ul Injection
Method : /chem3/nt1.i/20081008.b/pw3ul.m
Meth Date : 09-Oct-2008 07:44 van Quant Type: ISTD
Cal Date : 08-OCT-2008 16:34 Cal File: ic1008f.d
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PW.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	0.50000	Final Extract Volume (mL)
Vo	0.04000	Volume Extracted (L)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ug/L)
$	1 Tripropyl Tin (Hexyl)	291	7.621	7.617	(0.824)	12762	19.0841	238.6
	2 Tetrabutyl Tin	289	Compound Not Detected.					
	3 Tributyl Tin (Hexyl)	319	8.609	8.607	(0.931)	12601	22.5516	281.9
*	4 Tetrapentyl Tin	333	9.247	9.248	(1.000)	174371	200.000	
	5 Dibutyl Tin (Hexyl)	347	9.288	9.289	(0.915)	15039	44.4120	555.1
$	6 Tripentyl Tin (Hexyl)	347	9.584	9.583	(0.944)	11111	21.5583	269.5
	7 Butyl Tin (Hexyl)	347	9.921	9.920	(0.977)	12565	21.7804	272.3
*	8 p-Terphenyl-d14	244	10.150	10.149	(1.000)	166231	20.0000	

VTS 10-9-2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt1.i
Lab File ID: ns86sb.d
Lab Smp Id: NS86LCSW1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: 08-26451

Calibration Date: 08-OCT-2008
Calibration Time: 14:49
Client Smp ID: NS86LCSW1
Level: LOW
Sample Type: Liquid

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	221939	110970	443878	174371	-21.43
8 p-Terphenyl-d14	218922	109461	437844	166231	-24.07

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
4 Tetrapentyl Tin	9.25	8.75	9.75	9.25	-0.01
8 p-Terphenyl-d14	10.15	9.65	10.65	10.15	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: LIQUID
Lab Smp Id: NS86LCSW1
Level: LOW
Data Type: MS DATA
SpikeList File: PW.spk
Sublist File: PW.sub
Method File: /chem3/nt1.i/20081008.b/pw3ul.m
Misc Info: 08-26451

Client SDG: NS86
Fraction: SV
Client Smp ID: NS86LCSW1
Operator: VTS
SampleType: LCS
Quant Type: ISTD

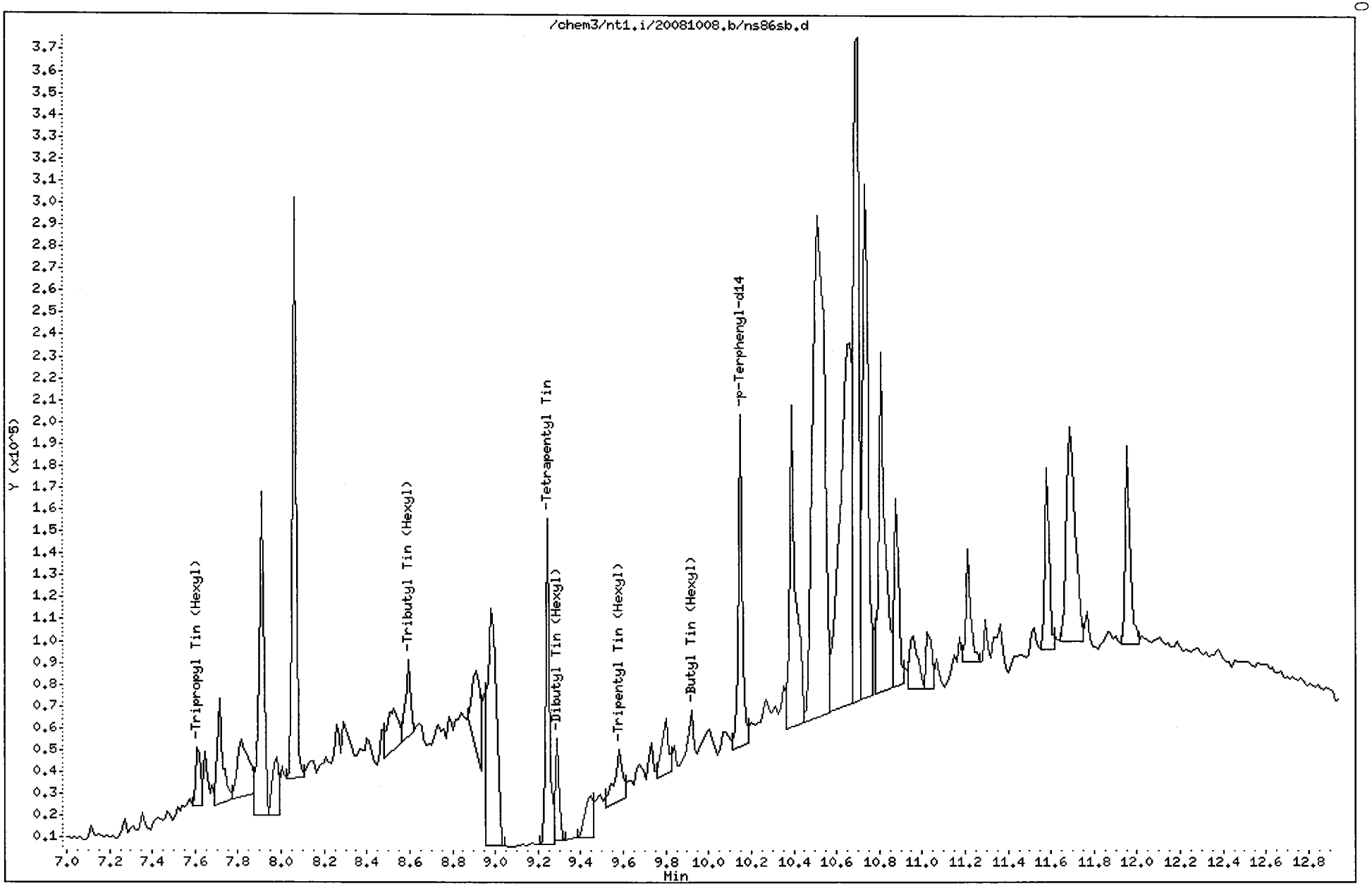
SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
3 Tributyl Tin (Hexy	312.5	281.9	90.21	10-147
5 Dibutyl Tin (Hexyl	625.0	555.1	88.82	10-142
7 Butyl Tin (Hexyl)	625.0	272.3	43.56	10-91

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 1 Tripropyl Tin (Hex	312.5	238.6	76.34	30-108
$ 6 Tripentyl Tin (Hex	312.5	269.5	86.23	23-97

Data File: /chem3/nt1.i/20081008.b/ns86sb.d
Date : 08-OCT-2008 17:14
Client ID: NS86LCSW1
Sample Info: NS86LCSW1
Purge Volume: 0.0
Column phase: ZB-5

Instrument: nt1.i
Operator: VTS
Column diameter: 0.25

0145



TBT Analysis
Extraction Bench Sheets and Run Logs

Prepared
for

Anchor Environmental

Project: EDDON BOATYARD, 040289-02

ARI Job No.: NS86

Prepared
By

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

HUSH

Tributyl Tin – Pore Water
Separatory Funnel (3510C) (SOP # 316S)

Preparation Test TBT # 2

Pore Water

ARI Job No(s) N586

Batch set up by: ~~SH~~

Bottle #	Extraction Requirements	Date	Volume Extracted	KD	Turbo Vap 1 2 3	(REQ) Derivitized (1:1) Y N	Turbo Vap 1 2 3	(REQ) Alumina Clean (1:1) Y N	Turbo Vap 1 2 3	Final Effective Volume	Volume to Lab	Comments
	N586 MBW	10-7-08	100mL			4mL		1mL		0.5mL	0.5mL	Blanks= Sea H20
	SBW		↓		↓	↓		↓		↓	↓	↓
	~~SBWDup.~~		↓			↓		↓		↓	↓	↓
1	N586 A	Verified	100mL									
	B											
	Bms											
	Bmsd											
	C											
	D											

Analyst/Date: PD 10-7-08 NTL 10/7 SP 10/8

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	J	50µL	12/15/08	PD	TWS
Spike	9	50µL	12/15/08	PD	TWS
Extraction Time:	16:05				

SPECIAL INSTRUCTIONS:

1. Rinse all glassware with 0.02% Tropolone.
2. Pre-wash "Sea Water" blanks with 30mL DCM (2min shake) (Discard DCM). 3. Add Surr/Spk. 4. Acidify with 1:1 HCL.
5. Extract 1 X with 30mL 0.02% Tropolone (4 min shake). Plus 2 X 30mL DCM.
6. KD rinsed with 0.02% Tropolone (NO Drying Column) at 80°. 7. Exchange (2 X with 10mL) to Hexane at 100°.
8. TurboVap. 9. Derivitize=Transfer Rinse. 10. TurboVap 11. 0% Alumina Clean-up Required. 12. TurboVap.
13. Vial. A. Archive Y / ~~N~~

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory
Analyst Notes

ARI Job No.: N586

Client ID: Anchor Environmental, LLC

Parameter: TBT Pore H2O

Client Project: Eddon Boatyard

SOP Number(s): 3165

No Anomalies:

List problems, concerns, corrective actions and any other pertinent information

Analyst Initials:		**Date:**	

Analytical Resources Inc.: Organics Instrument Log

NT-1 (Serial No.: Mass Spec = 3341A01294; Mass Spec GC = 3336A53338)

Date: 10·8·2008 Analysis: Porewater - TBT Analyst: VTS

GC Program: NT1PW Column No: 132730 Column Type: ZB-5ms,

Instrument Tune (.U or .CT.): 081002.U EM Voltage: 2647

Calibration File: df1008A Curve Date: 10·8·2008

IS/SS	Ical/Ccal	LCS/ICV
(1487-5)	(1544-4)	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt1.

	Time	Filename	LabID	ClientId	DF				
1	1429	df1008a.d	DF1008		1	NO ISTDS FOUND			
2	1449	ic1008a.d	IC1008A		1	9.25	221939	10.15	218922
3	1515	ic1008b.d	IC1008B		1	9.25	218823	10.15	204558
4	1535	ic1008c.d	IC1008C		1	9.25	211526	10.15	211940
5	1555	ic1008d.d	IC1008D		1	9.25	195361	10.15	192944
6	1614	ic1008e.d	IC1008E		1	9.25	259986	10.15	255658
7	1634	ic1008f.d	IC1008F		1	9.25	208783	10.15	213713
8	1654	ns86mb.d	NS86MBW1	NS86MBW1	1	9.25	162589	10.15	152778
9	1714	ns86sb.d	NS86LCSW1	NS86LCSW1	1	9.25	174371	10.15	166231
10	1733	ns86a.d	NS86A	EB-SEO1-A-081003	1	9.25	162700	10.15	152840
11	1753	ns86b.d	NS86B	EB-SEO2-A-081003	1	BROKEN VIAL- MIS-INJECTED			
12	1813	ns86bms.d	NS86BMS	EB-SEO2-A-08100 MS	1	9.25	168190	10.15	155388
13	1832	ns86bmsd.d	NS86BMSD	EB-SEO2-A-08100 MSD	1	9.25	156422	10.15	150413
14	1852	ns86c.d	NS86C	EB-SEO3-A-081003	1	9.25	164946	10.15	151090
15	1912	ns86d.d	NS86D	EB-SEO4-A-081003	1	9.25	159280	10.15	150802
16	1931	nr46mb.d	NR46MBW1	NR46MBW1	1	9.25	167832	10.15	157929
17	1951	nr46sb.d	NR46LCSW1	NR46LCSW1	1	9.25	166322	10.15	150133
18	2010	nr46a.d	NR46A	EW-SW-1-U-2	1	9.25	158588	10.15	148614
19	2030	nr46b.d	NR46B	EW-SW-1-L-2	1	9.25	163749	10.15	145985
20	2049	nr46bms.d	NR46BMS	EW-SW-1-L-2 MS	1	9.25	159996	10.15	142911
21	2109	nr46bmsd.d	NR46BMSD	EW-SW-1-L-2 MSD	1	9.25	162419	10.15	143610
22	2128	nr46c.d	NR46C	EW-SW-101-L-2	1	9.25	154721	10.15	137863
23	2148	nq90mb.d	NQ90MBW1	NQ90MBW1	1	9.25	157319	10.15	138663
24	2207	nq90sb.d	NQ90LCSW1	NQ90LCSW1	1	9.25	156099	10.15	133653
25	2227	nq90a.d	NQ90A	EW-SW-6-U-2	1	9.25	158629	10.15	139410
26	2246	nq90b.d	NQ90B	EW-SW-6-L-2	1	9.25	183280	10.15	160213
27	2305	nq90c.d	NQ90C	EW-SW-5-U-2	1	9.25	151286	10.15	129240
28	2325	nq90d.d	NQ90D	EW-SW-5-L-2	1	9.25	154105	10.15	128762
29	2344	nq90e.d	NQ90E	EW-SW-5-L-2-RB	1	9.25	153490	10.15	129291
30	0003	nr24a.d	NR24A	EW-SW-2-U-2	1	9.25	144796	10.15	130093
31	0023	nr24ams.d	NR24AMS	EW-SW-2-U-2 MS	1	9.25	149342	10.15	122332
32	0042	nr24amsd.d	NR24AMSD	EW-SW-2-U-2 MSD	1	9.25	147457	10.15	124748
33	0101	nr24b.d	NR24B	EW-SW-2-L-2	1	9.25	153806	10.15	125181
34	0121	nr24c.d	NR24C	EW-SW-3-U-2	1	9.25	151455	10.15	126184
35	0140	nr24d.d	NR24D	EW-SW-3-L-2	1	9.25	141204	10.15	123189

Maintenance / Comments

New liner/new septum/clipped column/flushed injector

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): IC1008A 10.9.08

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

.RI Project ID: CURVE Client ID: _____

.RI SOP: **801S**(SIM-PNA) **802S**(BTS-HX) (**803S**(BTS-PW)) **804S**(8270D) **805S**(BTS-ET)

arameter(s): pore water - CURVE

ıstrument: (NT-1) NT-2 NT-4 NT-6

urve Date: 10.8.2008 Analysis Start Date: 10.8.2008

FTPP Tune Meets Criteria?	(YES) / NO	Method Blank in Control?	YES / NO
DT Breakdown <20%?	(YES) / NO / NA	LCS / LCSD Recovery in Control?	YES / NO
eak Tailing Factor in Control?	(YES) / NO / NA	MS/MSD Recovery in Control?	YES / NO
:al Meets RF & %RSD Criteria?	(YES) / NO	Surrogate Recovery in Control?	YES / NO
Cal Meets RF & %RSD Criteria?	(YES) / NO	Special Analysis Criteria Met?	YES / NO / NA
ternal Standard Meets Criteria?	(YES) / NO		

etail problems, corrective actions and/or other pertinent information below (use reverse side hen necessary):

All targets met 15% RSD

ldditional Details on Reverse: Yes / No

ıalyst Signature: _____ **Date:** 10.9.2008

viewer's Signature: _____ **Date:** 10/9/08

Analytical Resources Inc.: Organics Instrument Log

NT-1 (Serial No.: Mass Spec = 3341A01294; Mass Spec GC = 3336A53338)

Date: 10.9.2008 Analysis: PW-TBT Analyst: VR

GC Program: NT|PW Column No: 132730 Column Type: 2B-5ms

Instrument Tune (.U or .CT.): 081002.U EM Voltage: 2647

Calibration File: df1009 Curve Date: 10.8.2008

IS/SS	Ical/Ccal	LCS/ICV
(1487-5)	(1544-4)	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt

	Time	Filename	LabID	ClientId	DF				
1	0813	df1009.d	DF1009		1	|NO ISTDS FOUND||			
2	0832	cc1009.d	CC1009		1	| 9.25	159620||	10.15	143858|
3	0855	ns86b.d	NS86B	EB-SEO2-A-081003	1	| 9.25	130867||	10.15	110880|
4	0914	ns86cdl.d	NS86C	EB-SEO3-A-081003	3	| 9.25	106234||	10.15	94627|

VR 10.9.2008

Maintenance / Comments NONE

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): CC1009

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: NS-86 Client ID: Anchor

ARI SOP: **801S**(SIM-PNA) **802S**(BTS-HX) (**803S**(BTS-PW)) **804S**(8270D) **805S**(BTS-ET)

Parameter(s): porewater -TBT

Instrument: (NT-1) NT-2 NT-4 NT-6

Curve Date: 10.8.2008 Analysis Start Date: 10.8.2008

DFTPP Tune Meets Criteria?	(YES) / NO	Method Blank in Control?	(YES) / NO
DDT Breakdown <20%?	(YES) / NO / NA	LCS / LCSD Recovery in Control?	(YES) / NO
Peak Tailing Factor in Control?	(YES) / NO / NA	MS/MSD Recovery in Control?	(YES) / NO
Cal Meets RF & %RSD Criteria?	(YES) / NO	Surrogate Recovery in Control?	(YES) / NO
Cal Meets RF & %RSD Criteria?	(YES) / NO	Special Analysis Criteria Met?	(YES) / NO / NA
Internal Standard Meets Criteria?	(YES) / NO		

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

-Full package

- B was re-run 10/9 - orig vial cracked.

- C showed E value, See CCV 3x

Additional Details on Reverse: Yes / No

Analyst Signature: [signature] **Date:** 10.9.2008

Reviewer's Signature: [signature] **Date:** 10/9/08

0152

Analytical Resources, Incorporated
Analytical Chemists and Consultants

October 24, 2008

Joy Dunay
Anchor Environmental
1423 3rd Avenue, Suite 300
Seattle, WA 98101

RE: 040289-02 Eddon Boatyard
ARI Job No. NS52

Dear Joy:

Please find enclosed the original chain of custody documentation and the final data package for samples from the project referenced above.

Sample receipt and details of the analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Susan Dunnihoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures

cc: eFile NS52

SD/sdrd

Chain of Custody
Documentation

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NOS: NS52

prepared
by

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested: 72 hours on SED.
ARI Client Company: Anchor Environmental	Phone: 206-903-3320
Client Contact: Joy Duray	
Client Project Name: EDDON Boatyard	
Client Project #: 040289-02	Samplers: JD, DG

Page: 1 of 1

Date: 10/3/08 | Ice Present?

No. of Coolers: | Cooler Temps:

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Total Solids	TOC	SMS Metals	SMS SVOCs	TBT (Ion Pairwater)	SMS PCBs	MTCA PAHs	Grainsize PSEP	Notes/Comments
					Analysis Requested								
EB-SED1-A-081003	10/3/08	1300	SE	2					X				72 HOUR RUSH
EB-SED2-A-081003	"	1230	SE	2					X				"
EB-SED3-A-081003	"	1145	SE	5	X	X	X	X	X	X		X	"
EB-SED3-B-081003	"	1150	SE	1									Archive only
EB-SED4-A-081003	"	1200	SE	4	X	X	X	X	X	X		X	"
EB-SED4-B-081003	"	1205	SE	1									Archive only
EBSOD1-COMP-081003	"	1415	SO	1	X						X		"

Comments/Special Instructions: RUSH TAT 72 hrs. on SEDIMENT SAMPLES

Relinquished by: (Signature)	Joy Duray	Received by: (Signature)	Jonathan Walter	Relinquished by: (Signature)	Received by: (Signature)
Printed Name:	Joy Duray	Printed Name:	Jonathan Walter	Printed Name:	Printed Name:
Company:	Anchor Env.	Company:	ARI	Company:	Company:
Date & Time:	10/3/08 1600	Date & Time:	10/3/08 1600	Date & Time:	Date & Time:

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Anchor Project Name: EDDDN Boatyard

COC No: _____ Delivered by: Hand

Assigned ARI Job No: _____ Tracking No: _____

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO
Record cooler temperature (recommended 2.0-6.0 °C for chemistry	8.2 °C	

Cooler Accepted by: JW Date: 10/3/08 Time: 1600

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?	YES	(NO)
What kind of packing material was used?	Ice	
Was sufficient ice used (if appropriate)?	YES	(NO)
Were all bottles sealed in individual plastic bags?	YES	(NO)
Did all bottle arrive in good condition (unbroken)?	(YES)	NO
Were all bottle labels complete and legible?	(YES)	NO
Did all bottle labels and tags agree with custody papers?	YES	(NO)
Were all bottles used correct for the requested analyses?	(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation checklist)	YES	(NO)
Were all VOC vials free of air bubbles? (NA)	YES	NO
Was sufficient amount of sample sent in each bottle?	(YES)	NO

Samples Logged by: JW Date: 10/3/08 Time: 1635

***** Notify Project Manager of discrepancies or concerns *****

Explain discrepancies or negative responses:

Extra sample logged in as 3A

EB-SE04-A-081003 had 1 extra jar

By: Date:

Case Narrative

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NOS: NS52

prepared
by

Analytical Resources, Inc.

ANALYTICAL
RESOURCES
INCORPORATED

Case Narrative

Client: Anchor Environmental
Project: 040289-02 Eddon Boatyard
ARI Job Nos. NS52

Sample receipt

Seven sediment samples were received by Analytical Resources on October 3, 2008 at a cooler temperature of 8.2°C measured by IR thermometer. Samples were well-iced, in good condition and received within a short time of sampling. One additional container was received marked simply as "3A". The jar was logged as an additional sample and Anchor informed of the discrepancy.

Samples were logged under ARI Job NS52 for bulk analysis and pore waters for the rush samples.

Sample EB-SO01-comp-081003 is reported under ARI Job NS89.

The results of TBT analysis of the pore water are reported separately under ARI Job NS86.

To meet required turn-around, metals analyses were subcontracted to Test America, Tacoma. Results were reported electronically.

Semivolatiles by SW8270

All samples and associated laboratory QC were extracted and analyzed within recommended holding times.

The initial and continuing calibrations were within method requirements. Internal standard areas were within limits.

Surrogate recoveries were within limits.

The method blank was clean at the reporting limits. The LCS had recoveries within limits.

The MS/MSD had recoveries and RPD within limits, with allowed marginal exceedances for Benzyl Alcohol and Bis-2(ethylhexyl)phthalate.

Selected Semivolatiles by SW8270-SIM

All samples and associated laboratory QC were extracted and analyzed within recommended holding times.

Initial and continuing calibrations were within method requirements. Internal standard areas were within limits.

Surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limit. The LCS percent recoveries were within control limits.

The MS/MSD had recovery and RPD within limits with the exception of Benzyl Alcohol. No action is required for matrix QC.

PCBs by SW8082

All samples and associated laboratory QC were extracted and analyzed within recommended holding times.

The initial and continuing calibrations were within method requirements. Internal standard areas were within limits.

Surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limits. The LCS percent recoveries were within control limits.

The MS/MSD had recoveries and RPD within advisory limits.

General Chemistry Parameters (TOC & Total Solids)

The samples were prepared and analyzed within the required holding time for all parameters.

The method blanks were clean at the reporting limits. The LCS had recoveries within control limits.

The MS percent recoveries were within control limits. The replicate RPDs were within the control limits.

Standard reference recoveries were within limits.

Geotechnical Parameters

A laboratory specific narrative follows.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Client: Anchor Environmental, LLC	**ARI Project No.:** NS52
Client Project: Eddon Boatyard	**Client Project No.:** 040289-02

Case Narrative

1. Four samples were received October 3, 2008 and were in good condition.
2. Two samples were submitted for grain size analysis according to Puget Sound Estuary Protocol (PSEP) methodology.
3. The grain size samples were run in a single batch and one sample from another job was chosen for triplicate analysis. The triplicate data is reported on the QA summary.
4. The grain size samples contained some shell fragments.
5. Four samples were submitted for Pore Water Extraction according to the Corp of Engineers draft interim guidelines.
6. The sediment for pore water extraction was in 32 oz wide mouth glass jars. The sediment sample jars were placed in the nitrogen chamber along with centrifuge jars, spoons and a balance, and the chamber was sealed and filled with nitrogen. The centrifuge jars were opened to allow them to come to equilibrium with the chamber. The oxygen level in the chamber was less than 1%.
7. All centrifuge bottles were pre-rinsed with Hexane and allowed to dry completely. All spoons were pre-rinsed with Dichloromethane.
8. All samples were centrifuged in a pre-cooled centrifuge (4°C) at 3,000 x g for 30 minutes, decanted in the nitrogen chamber, and then placed in another pre-cooled centrifuge (4°C) and spun at 7,000-x g for 30 minutes.
9. Some of the samples had "floaters," material that was floating on the top (or within the water) and could not be separated by centrifuging.
10. The data is provided in summary tables and plots.
11. There were no other noted anomalies in this project.

Approved by: _____ Date: 10/17/08
Title: Laboratory Supervisor

0007

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U	Indicates that the target analyte was not detected at the reported concentration
*	Duplicate RPD is not within established control limits
B	Reported value is less than the CRDL but ≥ the Reporting Limit
N	Matrix Spike recovery not within established control limits
NA	Not Applicable, analyte not spiked
H	The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
L	Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U	Indicates that the target analyte was not detected at the reported concentration
*	Flagged value is not within established control limits
B	Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
J	Estimated concentration when the value is less than ARI's established reporting limits
D	The spiked compound was not detected due to sample extract dilution
NR	Spiked compound recovery is not reported due to chromatographic interference
E	Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
S	Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
NA	The flagged analyte was not analyzed for
NS	The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.

F Samples were frozen prior to particle size determination

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

LCS SOLUTIONS

9/4/2008

LABE	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
1	1534-5	PCB	20	MEOH	08/26/09
2	1472-3	BCOC PEST	10	ACETONE	07/20/08
3	1517-1	PEST	02/04/20	ACETONE	05/15/09
4	1515-1	LOW PEST	0.2/0.4/2	ACETONE	01/24/09
5	1537-1	EPH	1500	MECL2	08/16/09
6*	1456-3	PCP	12.5	ACETONE	04/18/09
7	1537-3	ABN	100	ACETONE	08/01/09
8	1487-2	TBT	10	MECL2	12/15/08
9	1493-3	PORE TBT	.25/.5	MECL2	12/15/08
10	1537-2	ABN ACID	100/200	MEOH	04/10/09
11	1526-1	TPHD	15000	ACETONE	06/25/09
12	1533-1	ABN BASE	200	ACETONE	07/01/09
13*	1427-3	LOW PCB	2	ACETONE	10/11/08
14	1480-2	LOW ABN ACID	10/20	MEOH	10/09/08
15*	1452-1	SIM PNA	15/75	MEOH	04/09/09
16	1502-2	DIOXANE	100	MEOH	02/20/09
17	1516-2	1248 PCB	20	ACETONE	05/07/09
18	1514-4	LOW SIM PNA	1.5/7.5	ACETONE	04/24/09
19	1517-3	AK103	7500	MECL2	12/29/08
20	1490-4	PNA	100	MEOH	01/10/09
21*	1414-4	SKY/BHT	100	MEOH	04/08/09
22	1539-1	HERB	12.5/12500	MEOH	08/31/09
23	1505-1	LOW ABN BASE	20	MEOH	03/20/09
24	1504-4	LOW ABN	10	ACETONE	10/01/08
25	1481-1	DIPHENYL	100	MEOH	07/20/08
26	1522-2	OP-PEST	30	MEOH	11/30/08
27	1495-1	STEROLS	200	MEOH	12/29/08
28	1494-1	ADD. PEST	4	ACETONE	01/23/09
29	1496-3	DECANES	100	MEOH	02/12/09
30	1497-2	EDB/DBCP	2	ACETONE	02/12/09
31	1510-3	TERPINEOL	100	MEOH	03/21/09

LCS SOLUTIONS

9/4/2008

32	1533-2	GUAIACOL	50-200	ACETONE	06/05/09
33	1522-1	RESIN ACID	250	ACETONE	06/11/09
34	1530-2	CONGENERS	250	ACETONE	07/23/09
50	1523-1	FULL RESIN	250	ACETONE	06/10/09
*=REVERIFIED SOLUTION					

SURR SOLUTIONS

9/4/2008

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
A	1525-4	ABN	100/150	MEOH	03/13/09
B	1513-1	SIM PNA	15/75	MEOH	04/15/09
C*	1443-1	SIM ABN	10/15	MEOH	04/03/09
D	1516-3	LOW PCB	0.2	ACETONE	05/09/09
E	1478-1	HERB	62.5	MEOH	09/21/08
F	1520-3	PCP	12.5	ACETONE	04/18/09
G	1502-3	1,4DIOXANE	100	MEOH	02/20/09
H	1504-2	OP-PEST	25	MEOH	03/20/09
I*	1458-1	LOW S. PNA	03/15	MEOH	06/05/09
J	1493-2	TBT-PORE	0.25	MECL2	12/15/08
K	1490-3	MED PCB	20	ACETONE	01/14/09
L	1486-5	TBT	10	MECL2	12/15/08
M	1518-3	EPH	1500	MECL2	05/10/09
N	1518-4	PCB	2	ACETONE	05/29/09
O	1521-3	TPH	450	MECL2	12/29/08
P	1518-2	HCID	2250	MECL2	12/29/08
Q	1497-3	EDB	2	ACETONE	02/12/09
R	1521-4	RESIN ACID	250	ACETONE	06/11/09
S	*RE-VER	FIED SOLUT	ION		
T					
U					
V					
W					
X					
Y					
Z					

Data Summary Package

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NOS: NS52

prepared
by

Analytical Resources, Inc.

SEMIVOLATILE ORGANICS

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
Page 1 of 2

Sample ID: EB-SE03-A-081003
SAMPLE

Lab Sample ID: NS52C
LIMS ID: 08-26288
Matrix: Sediment
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 20:37
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 45.1%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	< 20 U
541-73-1	1,3-Dichlorobenzene	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	Benzoic Acid	200	< 200 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	**Naphthalene**	**20**	**12 J**
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
131-11-3	**Dimethylphthalate**	**20**	**50**
208-96-8	**Acenaphthylene**	**20**	**22**
83-32-9	**Acenaphthene**	**20**	**16 J**
132-64-9	Dibenzofuran	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	**Fluorene**	**20**	**26**
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	97	< 97 U
85-01-8	**Phenanthrene**	**20**	**220**
120-12-7	**Anthracene**	**20**	**44**
84-74-2	**Di-n-Butylphthalate**	**20**	**24**
206-44-0	**Fluoranthene**	**20**	**420**
129-00-0	**Pyrene**	**20**	**420**
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	**Benzo(a)anthracene**	**20**	**170**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**480**
218-01-9	**Chrysene**	**20**	**230**
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	**Benzo(b)fluoranthene**	**20**	**180**
207-08-9	**Benzo(k)fluoranthene**	**20**	**190**
50-32-8	**Benzo(a)pyrene**	**20**	**190**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**20**	**66**
53-70-3	**Dibenz(a,h)anthracene**	**20**	**11 J**
191-24-2	**Benzo(g,h,i)perylene**	**20**	**67**
90-12-0	1-Methylnaphthalene	20	< 20 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: EB-SE03-A-081003
SAMPLE

Lab Sample ID: NS52C
LIMS ID: 08-26288
Matrix: Sediment
Date Analyzed: 10/08/08 20:37

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02

CAS Number	Analyte	RL	Result

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	66.4%	2-Fluorobiphenyl	75.2%
d14-p-Terphenyl	84.8%	d4-1,2-Dichlorobenzene	62.4%
d5-Phenol	73.1%	2-Fluorophenol	65.9%
2,4,6-Tribromophenol	99.7%	d4-2-Chlorophenol	72.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: EB-SE04-A-081003
SAMPLE

Lab Sample ID: NS52E
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 22:17
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 27.5%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	< 20 U
541-73-1	1,3-Dichlorobenzene	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	Benzoic Acid	200	< 200 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	**Naphthalene**	**20**	**20**
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	**2-Methylnaphthalene**	**20**	**12 J**
131-11-3	**Dimethylphthalate**	**20**	**24**
208-96-8	**Acenaphthylene**	**20**	**14 J**
83-32-9	**Acenaphthene**	**20**	**24**
132-64-9	**Dibenzofuran**	**20**	**17 J**
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	**Fluorene**	**20**	**32**
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	98	< 98 U
85-01-8	**Phenanthrene**	**20**	**170**
120-12-7	**Anthracene**	**20**	**36**
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	**Fluoranthene**	**20**	**250**
129-00-0	**Pyrene**	**20**	**230**
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	**Benzo(a)anthracene**	**20**	**86**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**54**
218-01-9	**Chrysene**	**20**	**120**
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	**Benzo(b)fluoranthene**	**20**	**120**
207-08-9	**Benzo(k)fluoranthene**	**20**	**92**
50-32-8	**Benzo(a)pyrene**	**20**	**97**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**20**	**29**
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	**Benzo(g,h,i)perylene**	**20**	**28**
90-12-0	1-Methylnaphthalene	20	< 20 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: EB-SE04-A-081003
SAMPLE

Lab Sample ID: NS52E
LIMS ID: 08-26290
Matrix: Sediment
Date Analyzed: 10/08/08 22:17

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02

CAS Number	Analyte	RL	Result

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	62.0%	2-Fluorobiphenyl	67.6%
d14-p-Terphenyl	78.4%	d4-1,2-Dichlorobenzene	57.6%
d5-Phenol	63.2%	2-Fluorophenol	61.9%
2,4,6-Tribromophenol	86.7%	d4-2-Chlorophenol	65.9%

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
MB-100708	65.6%	69.6%	83.2%	66.8%	72.5%	66.7%	84.5%	70.1%	0
LCS-100708	64.8%	69.2%	84.0%	64.4%	72.8%	65.3%	90.7%	66.1%	0
EB-SE03-A-081003	66.4%	75.2%	84.8%	62.4%	73.1%	65.9%	99.7%	72.0%	0
EB-SE03-A-081003 MS	64.4%	69.6%	80.4%	61.2%	71.7%	64.8%	90.7%	67.7%	0
EB-SE03-A-081003 MSD	65.6%	70.8%	80.0%	60.0%	73.3%	66.1%	89.9%	69.1%	0
EB-SE04-A-081003	62.0%	67.6%	78.4%	57.6%	63.2%	61.9%	86.7%	65.9%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(37-85)	(29-87)
(FBP) = 2-Fluorobiphenyl	(39-82)	(32-88)
(TPH) = d14-p-Terphenyl	(38-105)	(21-97)
(DCB) = d4-1,2-Dichlorobenzene	(33-79)	(25-82)
(PHL) = d5-Phenol	(40-85)	(29-85)
(2FP) = 2-Fluorophenol	(20-93)	(10-114)
(TBP) = 2,4,6-Tribromophenol	(40-96)	(25-103)
(2CP) = d4-2-Chlorophenol	(41-81)	(30-84)

Prep Method: SW3550B
Log Number Range: 08-26288 to 08-26290

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
Page 1 of 1

Sample ID: EB-SE03-A-081003
MS/MSD

Lab Sample ID: NS52C
LIMS ID: 08-26288
Matrix: Sediment
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted MS/MSD: 10/07/08

Date Analyzed MS: 10/08/08 21:10
MSD: 10/08/08 21:44
Instrument/Analyst MS: NT6/LJR
MSD: NT6/LJR
GPC Cleanup: NO

Sample Amount MS: 25.5 g-dry-wt
MSD: 25.6 g-dry-wt
Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL
Dilution Factor MS: 1.00
MSD: 1.00
Percent Moisture: 45.1 %

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Phenol	< 19.5	325	491	66.2%	316	488	64.8%	2.8%
1,3-Dichlorobenzene	< 19.5	306	491	62.3%	311	488	63.7%	1.6%
1,4-Dichlorobenzene	< 19.5	311	491	63.3%	314	488	64.3%	1.0%
Benzyl Alcohol	< 19.5	325	982	33.1%	243	976	24.9%	28.9%
1,2-Dichlorobenzene	< 19.5	319	491	65.0%	324	488	66.4%	1.6%
2-Methylphenol	< 19.5	339	491	69.0%	336	488	68.9%	0.9%
4-Methylphenol	< 19.5	683	982	69.6%	668	976	68.4%	2.2%
2,4-Dimethylphenol	< 19.5	369	491	75.2%	364	488	74.6%	1.4%
Benzoic Acid	< 195	831	1470	56.5%	862	1460	59.0%	3.7%
1,2,4-Trichlorobenzene	< 19.5	360	491	73.3%	361	488	74.0%	0.3%
Naphthalene	11.7	371	491	73.2%	370	488	73.4%	0.3%
Hexachlorobutadiene	< 19.5	370	491	75.4%	373	488	76.4%	0.8%
2-Methylnaphthalene	< 19.5	428	491	87.2%	421	488	86.3%	1.6%
Dimethylphthalate	50.4	424	491	76.1%	425	488	76.8%	0.2%
Acenaphthylene	21.6	395	491	76.0%	396	488	76.7%	0.3%
Acenaphthene	15.8	355	491	69.1%	356	488	69.7%	0.3%
Dibenzofuran	< 19.5	413	491	84.1%	410	488	84.0%	0.7%
Diethylphthalate	< 19.5	371	491	75.6%	366	488	75.0%	1.4%
Fluorene	26.1	440	491	84.3%	448	488	86.5%	1.8%
N-Nitrosodiphenylamine	< 19.5	501	491	102%	493	488	101%	1.6%
Hexachlorobenzene	< 19.5	449	491	91.4%	428	488	87.7%	4.8%
Pentachlorophenol	< 97.3	430	491	87.6%	413	488	84.6%	4.0%
Phenanthrene	216	616	491	81.5%	770	488	114%	22.2%
Anthracene	43.6	462	491	85.2%	468	488	87.0%	1.3%
Di-n-Butylphthalate	23.9	442	491	85.2%	432	488	83.6%	2.3%
Fluoranthene	422	899	491	97.1%	1180	488	155%	27.0%
Pyrene	419	789	491	75.4%	957	488	110%	19.2%
Butylbenzylphthalate	< 19.5	454	491	92.5%	539	488	110%	17.1%
Benzo(a)anthracene	173	588	491	84.5%	589	488	85.2%	0.2%
bis(2-Ethylhexyl)phthalate	476	615	491	28.3%	589	488	23.2%	4.3%
Chrysene	228	626	491	81.1%	721	488	101%	14.1%
Di-n-Octyl phthalate	< 19.5	404	491	82.3%	391	488	80.1%	3.3%
Benzo(b)fluoranthene	180	724	491	111%	760	488	119%	4.9%
Benzo(k)fluoranthene	186	655	491	95.5%	730	488	111%	10.8%
Benzo(a)pyrene	189	539	491	71.3%	559	488	75.8%	3.6%
Indeno(1,2,3-cd)pyrene	66.0	342	491	56.2%	325	488	53.1%	5.1%
Dibenz(a,h)anthracene	11.1	305	491	59.9%	290	488	57.2%	5.0%
Benzo(g,h,i)perylene	66.7	278	491	43.0%	266	488	40.8%	4.4%
1-Methylnaphthalene	< 19.5	425	491	86.6%	421	488	86.3%	0.9%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: EB-SE03-A-081003
MATRIX SPIKE

Lab Sample ID: NS52C
LIMS ID: 08-26288
Matrix: Sediment
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 21:10
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 45.1%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	---
541-73-1	1,3-Dichlorobenzene	20	---
106-46-7	1,4-Dichlorobenzene	20	---
100-51-6	Benzyl Alcohol	20	---
95-50-1	1,2-Dichlorobenzene	20	---
95-48-7	2-Methylphenol	20	---
106-44-5	4-Methylphenol	20	---
105-67-9	2,4-Dimethylphenol	20	---
65-85-0	Benzoic Acid	200	---
120-82-1	1,2,4-Trichlorobenzene	20	---
91-20-3	Naphthalene	20	---
87-68-3	Hexachlorobutadiene	20	---
91-57-6	2-Methylnaphthalene	20	---
131-11-3	Dimethylphthalate	20	---
208-96-8	Acenaphthylene	20	---
83-32-9	Acenaphthene	20	---
132-64-9	Dibenzofuran	20	---
84-66-2	Diethylphthalate	20	---
86-73-7	Fluorene	20	---
86-30-6	N-Nitrosodiphenylamine	20	---
118-74-1	Hexachlorobenzene	20	---
87-86-5	Pentachlorophenol	98	---
85-01-8	Phenanthrene	20	---
120-12-7	Anthracene	20	---
84-74-2	Di-n-Butylphthalate	20	---
206-44-0	Fluoranthene	20	---
129-00-0	Pyrene	20	---
85-68-7	Butylbenzylphthalate	20	---
56-55-3	Benzo(a)anthracene	20	---
117-81-7	bis(2-Ethylhexyl)phthalate	20	---
218-01-9	Chrysene	20	---
117-84-0	Di-n-Octyl phthalate	20	---
205-99-2	Benzo(b)fluoranthene	20	---
207-08-9	Benzo(k)fluoranthene	20	---
50-32-8	Benzo(a)pyrene	20	---
193-39-5	Indeno(1,2,3-cd)pyrene	20	---
53-70-3	Dibenz(a,h)anthracene	20	---
191-24-2	Benzo(g,h,i)perylene	20	---
90-12-0	1-Methylnaphthalene	20	---

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: EB-SE03-A-081003
MATRIX SPIKE

Lab Sample ID: NS52C
LIMS ID: 08-26288
Matrix: Sediment
Date Analyzed: 10/08/08 21:10

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02

CAS Number	Analyte	RL	Result

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	64.4%	2-Fluorobiphenyl	69.6%
d14-p-Terphenyl	80.4%	d4-1,2-Dichlorobenzene	61.2%
d5-Phenol	71.7%	2-Fluorophenol	64.8%
2,4,6-Tribromophenol	90.7%	d4-2-Chlorophenol	67.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
Page 1 of 2

Sample ID: EB-SE03-A-081003
MATRIX SPIKE DUPLICATE

Lab Sample ID: NS52C
LIMS ID: 08-26288
Matrix: Sediment
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 21:44
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 45.1%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	---
541-73-1	1,3-Dichlorobenzene	20	---
106-46-7	1,4-Dichlorobenzene	20	---
100-51-6	Benzyl Alcohol	20	---
95-50-1	1,2-Dichlorobenzene	20	---
95-48-7	2-Methylphenol	20	---
106-44-5	4-Methylphenol	20	---
105-67-9	2,4-Dimethylphenol	20	---
65-85-0	Benzoic Acid	200	---
120-82-1	1,2,4-Trichlorobenzene	20	---
91-20-3	Naphthalene	20	---
87-68-3	Hexachlorobutadiene	20	---
91-57-6	2-Methylnaphthalene	20	---
131-11-3	Dimethylphthalate	20	---
208-96-8	Acenaphthylene	20	---
83-32-9	Acenaphthene	20	---
132-64-9	Dibenzofuran	20	---
84-66-2	Diethylphthalate	20	---
86-73-7	Fluorene	20	---
86-30-6	N-Nitrosodiphenylamine	20	---
118-74-1	Hexachlorobenzene	20	---
87-86-5	Pentachlorophenol	98	---
85-01-8	Phenanthrene	20	---
120-12-7	Anthracene	20	---
84-74-2	Di-n-Butylphthalate	20	---
206-44-0	Fluoranthene	20	---
129-00-0	Pyrene	20	---
85-68-7	Butylbenzylphthalate	20	---
56-55-3	Benzo(a)anthracene	20	---
117-81-7	bis(2-Ethylhexyl)phthalate	20	---
218-01-9	Chrysene	20	---
117-84-0	Di-n-Octyl phthalate	20	---
205-99-2	Benzo(b)fluoranthene	20	---
207-08-9	Benzo(k)fluoranthene	20	---
50-32-8	Benzo(a)pyrene	20	---
193-39-5	Indeno(1,2,3-cd)pyrene	20	---
53-70-3	Dibenz(a,h)anthracene	20	---
191-24-2	Benzo(g,h,i)perylene	20	---
90-12-0	1-Methylnaphthalene	20	---

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: EB-SE03-A-081003
MATRIX SPIKE DUPLICATE

Lab Sample ID: NS52C
LIMS ID: 08-26288
Matrix: Sediment
Date Analyzed: 10/08/08 21:44

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02

CAS Number	Analyte	RL	Result

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	65.6%	2-Fluorobiphenyl	70.8%
d14-p-Terphenyl	80.0%	d4-1,2-Dichlorobenzene	60.0%
d5-Phenol	73.3%	2-Fluorophenol	66.1%
2,4,6-Tribromophenol	89.9%	d4-2-Chlorophenol	69.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
Page 1 of 2

Sample ID: LCS-100708
LAB CONTROL

Lab Sample ID: LCS-100708
LIMS ID: 08-26288
Matrix: Sediment
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 13:16
Instrument/Analyst: NT6/LJR
GPC Cleanup: NO

Sample Amount: 25.0 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Phenol	335	500	67.0%
1,3-Dichlorobenzene	320	500	64.0%
1,4-Dichlorobenzene	318	500	63.6%
Benzyl Alcohol	512	1000	51.2%
1,2-Dichlorobenzene	329	500	65.8%
2-Methylphenol	329	500	65.8%
4-Methylphenol	697	1000	69.7%
2,4-Dimethylphenol	360	500	72.0%
Benzoic Acid	1150	1500	76.7%
1,2,4-Trichlorobenzene	348	500	69.6%
Naphthalene	354	500	70.8%
Hexachlorobutadiene	368	500	73.6%
2-Methylnaphthalene	406	500	81.2%
Dimethylphthalate	380	500	76.0%
Acenaphthylene	375	500	75.0%
Acenaphthene	334	500	66.8%
Dibenzofuran	396	500	79.2%
Diethylphthalate	385	500	77.0%
Fluorene	414	500	82.8%
N-Nitrosodiphenylamine	533	500	107%
Hexachlorobenzene	468	500	93.6%
Pentachlorophenol	437	500	87.4%
Phenanthrene	430	500	86.0%
Anthracene	442	500	88.4%
Di-n-Butylphthalate	473	500	94.6%
Fluoranthene	499	500	99.8%
Pyrene	419	500	83.8%
Butylbenzylphthalate	472	500	94.4%
Benzo(a)anthracene	462	500	92.4%
bis(2-Ethylhexyl)phthalate	520	500	104%
Chrysene	384	500	76.8%
Di-n-Octyl phthalate	422	500	84.4%
Benzo(b)fluoranthene	479	500	95.8%
Benzo(k)fluoranthene	473	500	94.6%
Benzo(a)pyrene	385	500	77.0%
Indeno(1,2,3-cd)pyrene	379	500	75.8%
Dibenz(a,h)anthracene	434	500	86.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS **Sample ID: LCS-100708**
 LAB CONTROL

Lab Sample ID: LCS-100708 QC Report No: NS52-Anchor Environmental, LLC
LIMS ID: 08-26288 Project: EDDON BOATYARD
Matrix: Sediment 040289-02
Date Analyzed: 10/08/08 13:16

Analyte	Lab Control	Spike Added	Recovery
Benzo(g,h,i)perylene	410	500	82.0%
1-Methylnaphthalene	403	500	80.6%

Semivolatile Surrogate Recovery	
d5-Nitrobenzene	64.8%
2-Fluorobiphenyl	69.2%
d14-p-Terphenyl	84.0%
d4-1,2-Dichlorobenzene	64.4%
d5-Phenol	72.8%
2-Fluorophenol	65.3%
2,4,6-Tribromophenol	90.7%
d4-2-Chlorophenol	66.1%

Results reported in µg/kg

4B

SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

NS52MBS1

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS52 Project: EDDON BOATYARD

Lab File ID: NS52MB Date Extracted: 10/07/08

Instrument ID: NT6 Date Analyzed: 10/08/08

Matrix: SOLID Time Analyzed: 1243

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	NS52LCSS1	NS52LCSS1	NS52SB	10/08/08
02	EB-SE03-A-081003	NS52C	NS52C	10/08/08
03	EB-SE03-A-08100	NS52CMS	NS52CMS	10/08/08
04	EB-SE03-A-08100	NS52CMSD	NS52CMD	10/08/08
05	EB-SE04-A-081003	NS52E	NS52E	10/08/08
06				
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COMMENTS:

FORM IV SV

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: MB-100708
METHOD BLANK

Lab Sample ID: MB-100708
LIMS ID: 08-26288
Matrix: Sediment
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 12:43
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 25.0 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	< 20 U
541-73-1	1,3-Dichlorobenzene	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	Benzoic Acid	200	< 200 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	Naphthalene	20	< 20 U
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	Fluorene	20	< 20 U
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	100	< 100 U
85-01-8	Phenanthrene	20	< 20 U
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	Fluoranthene	20	< 20 U
129-00-0	Pyrene	20	< 20 U
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	Benzo(a)anthracene	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
218-01-9	Chrysene	20	< 20 U
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	Benzo(b)fluoranthene	20	< 20 U
207-08-9	Benzo(k)fluoranthene	20	< 20 U
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U
90-12-0	1-Methylnaphthalene	20	< 20 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: MB-100708
METHOD BLANK

Lab Sample ID: MB-100708
LIMS ID: 08-26288
Matrix: Sediment
Date Analyzed: 10/08/08 12:43

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02

CAS Number	Analyte	RL	Result

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	65.6%	2-Fluorobiphenyl	69.6%
d14-p-Terphenyl	83.2%	d4-1,2-Dichlorobenzene	66.8%
d5-Phenol	72.5%	2-Fluorophenol	66.7%
2,4,6-Tribromophenol	84.5%	d4-2-Chlorophenol	70.1%

SIM SVOA

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by Selected Ion Monitoring GC/MS **Sample ID: EB-SE03-A-081003**
Page 1 of 1 **SAMPLE**

Lab Sample ID: NS52C
LIMS ID: 08-26288
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/06/08
Date Analyzed: 10/07/08 17:53
Instrument/Analyst: NT2/VTS
GPC Cleanup: No
Silica Gel Cleanup: No
Alumina Cleanup: No

Sample Amount: 16.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 45.1%

CAS Number	Analyte	RL	Result
53-70-3	**Dibenz(a,h)anthracene**	**6.0**	**21**
106-46-7	1,4-Dichlorobenzene	6.0	< 6.0 U
120-82-1	1,2,4-Trichlorobenzene	6.0	< 6.0 U
118-74-1	Hexachlorobenzene	6.0	< 6.0 U
87-68-3	Hexachlorobutadiene	6.0	< 6.0 U
85-68-7	Butylbenzylphthalate	15	< 15 U
95-48-7	2-Methylphenol	6.0	< 6.0 U
105-67-9	2,4-Dimethylphenol	6.0	< 6.0 U
86-30-6	N-Nitrosodiphenylamine	6.0	< 6.0 U
100-51-6	Benzyl Alcohol	30	< 30 U
87-86-5	Pentachlorophenol	30	< 30 U
95-50-1	1,2-Dichlorobenzene	6.0	< 6.0 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

2-Fluorobiphenyl	77.2%	d5-Phenol	71.5%
2-Fluorophenol	83.2%	d4-2-Chlorophenol	84.0%
d4-1,2-Dichlorobenzene	64.4%	d5-Nitrobenzene	79.2%
2,4,6-Tribromophenol	40.5%	d14-p-Terphenyl	84.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by Selected Ion Monitoring GC/MS **Sample ID: EB-SE04-A-081003**
Page 1 of 1 **SAMPLE**

Lab Sample ID: NS52E
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/06/08
Date Analyzed: 10/07/08 18:25
Instrument/Analyst: NT2/VTS
GPC Cleanup: No
Silica Gel Cleanup: No
Alumina Cleanup: No

Sample Amount: 17.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 27.5%

CAS Number	Analyte	RL	Result
53-70-3	**Dibenz(a,h)anthracene**	**5.8**	**14**
106-46-7	1,4-Dichlorobenzene	5.8	< 5.8 U
120-82-1	1,2,4-Trichlorobenzene	5.8	< 5.8 U
118-74-1	Hexachlorobenzene	5.8	< 5.8 U
87-68-3	Hexachlorobutadiene	5.8	< 5.8 U
85-68-7	Butylbenzylphthalate	14	< 14 U
95-48-7	2-Methylphenol	5.8	< 5.8 U
105-67-9	2,4-Dimethylphenol	5.8	< 5.8 U
86-30-6	N-Nitrosodiphenylamine	5.8	< 5.8 U
100-51-6	Benzyl Alcohol	29	< 29 U
87-86-5	Pentachlorophenol	29	< 29 U
95-50-1	1,2-Dichlorobenzene	5.8	< 5.8 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

2-Fluorobiphenyl	74.4%	d5-Phenol	72.3%
2-Fluorophenol	80.0%	d4-2-Chlorophenol	79.7%
d4-1,2-Dichlorobenzene	64.4%	d5-Nitrobenzene	77.2%
2,4,6-Tribromophenol	59.5%	d14-p-Terphenyl	86.0%

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02

Client ID	FBP	PHL	FPH	CPL	DCB	NBZ	TBP	TER	TOT OUT
EB-SE03-A-081003	77.2%	71.5%	83.2%	84.0%	64.4%	79.2%	40.5%	84.8%	0
MB-100608	68.0%	72.0%	78.9%	76.5%	62.0%	69.6%	53.9%	98.4%	0
LCS-100608	76.4%	70.7%	82.4%	83.7%	66.0%	66.8%	92.8%	107%	0
EB-SE04-A-081003	74.4%	72.3%	80.0%	79.7%	64.4%	77.2%	59.5%	86.0%	0
EB-SE04-A-081003 MS	76.0%	82.4%	79.7%	82.9%	64.8%	81.2%	61.1%	86.4%	0
EB-SE04-A-081003 MSD	79.2%	92.8%	80.3%	81.6%	65.2%	83.2%	57.9%	90.8%	0

	LCS/MB LIMITS	QC LIMITS
(FBP) = 2-Fluorobiphenyl	(30-160)	(30-160)
(PHL) = d5-Phenol	(30-160)	(30-160)
(FPH) = 2-Fluorophenol	(30-160)	(30-160)
(CPL) = d4-2-Chlorophenol	(30-160)	(30-160)
(DCB) = d4-1,2-Dichlorobenzene	(30-160)	(30-160)
(NBZ) = d5-Nitrobenzene	(30-160)	(30-160)
(TBP) = 2,4,6-Tribromophenol	(30-160)	(30-160)
(TER) = d14-p-Terphenyl	(30-160)	(30-160)

Prep Method: SW3550B
Log Number Range: 08-26288 to 08-26290

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by Selected Ion Monitoring GC/MS **Sample ID: EB-SE04-A-081003**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: NS52E
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted MS/MSD: 10/06/08

Sample Amount MS: 16.9 g-dry-wt
MSD: 17.3 g-dry-wt

Date Analyzed MS: 10/07/08 18:58
MSD: 10/07/08 19:31

Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL

Instrument/Analyst MS: NT2/VTS
MSD: NT2/VTS

Dilution Factor MS: 1.00
MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Dibenz(a,h)anthracene	13.9	88.8	148	50.6%	88.4	145	51.4%	0.5%
1,4-Dichlorobenzene	< 5.8 U	105	148	70.9%	108	145	74.5%	2.8%
1,2,4-Trichlorobenzene	< 5.8 U	108	148	73.0%	112	145	77.2%	3.6%
Hexachlorobenzene	< 5.8 U	127	148	85.8%	130	145	89.7%	2.3%
Hexachlorobutadiene	< 5.8 U	102	148	68.9%	108	145	74.5%	5.7%
Butylbenzylphthalate	< 14.5 U	118	148	79.7%	123	145	84.8%	4.1%
2-Methylphenol	< 5.8 U	92.9	148	62.8%	95.4	145	65.8%	2.7%
2,4-Dimethylphenol	< 5.8 U	103	148	69.6%	92.5	145	63.8%	10.7%
N-Nitrosodiphenylamine	< 5.8 U	141	148	95.3%	135	145	93.1%	4.3%
Benzyl Alcohol	< 28.9 U	< 29.6 U	296	NA	< 28.9 U	289	NA	NA
Pentachlorophenol	< 28.9 U	130	148	87.8%	133	145	91.7%	2.3%
1,2-Dichlorobenzene	< 5.8 U	102	148	68.9%	106	145	73.1%	3.8%

Reported in µg/kg (ppb)

NA-No recovery due to high concentration of analyte in original sample, calculated negative recovery, or undetected spike.
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by Selected Ion Monitoring GC/MS **Sample ID: EB-SE04-A-081003**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: NS52E
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/06/08
Date Analyzed: 10/07/08 18:58
Instrument/Analyst: NT2/VTS
GPC Cleanup: No
Silica Gel Cleanup: No
Alumina Cleanup: No

Sample Amount: 16.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 27.5%

CAS Number	Analyte	RL	Result
53-70-3	Dibenz(a,h)anthracene	5.9	---
106-46-7	1,4-Dichlorobenzene	5.9	---
120-82-1	1,2,4-Trichlorobenzene	5.9	---
118-74-1	Hexachlorobenzene	5.9	---
87-68-3	Hexachlorobutadiene	5.9	---
85-68-7	Butylbenzylphthalate	15	---
95-48-7	2-Methylphenol	5.9	---
105-67-9	2,4-Dimethylphenol	5.9	---
86-30-6	N-Nitrosodiphenylamine	5.9	---
100-51-6	Benzyl Alcohol	30	---
87-86-5	Pentachlorophenol	30	---
95-50-1	1,2-Dichlorobenzene	5.9	---

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

2-Fluorobiphenyl	76.0%	d5-Phenol	82.4%
2-Fluorophenol	79.7%	d4-2-Chlorophenol	82.9%
d4-1,2-Dichlorobenzene	64.8%	d5-Nitrobenzene	81.2%
2,4,6-Tribromophenol	61.1%	d14-p-Terphenyl	86.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by Selected Ion Monitoring GC/MS **Sample ID: EB-SE04-A-081003**
Page 1 of 1 **MATRIX SPIKE DUPLICATE**

Lab Sample ID: NS52E
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/06/08
Date Analyzed: 10/07/08 19:31
Instrument/Analyst: NT2/VTS
GPC Cleanup: No
Silica Gel Cleanup: No
Alumina Cleanup: No

Sample Amount: 17.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 27.5%

CAS Number	Analyte	RL	Result
53-70-3	Dibenz(a,h)anthracene	5.8	---
106-46-7	1,4-Dichlorobenzene	5.8	---
120-82-1	1,2,4-Trichlorobenzene	5.8	---
118-74-1	Hexachlorobenzene	5.8	---
87-68-3	Hexachlorobutadiene	5.8	---
85-68-7	Butylbenzylphthalate	14	---
95-48-7	2-Methylphenol	5.8	---
105-67-9	2,4-Dimethylphenol	5.8	---
86-30-6	N-Nitrosodiphenylamine	5.8	---
100-51-6	Benzyl Alcohol	29	---
87-86-5	Pentachlorophenol	29	---
95-50-1	1,2-Dichlorobenzene	5.8	---

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

2-Fluorobiphenyl	79.2%	d5-Phenol	92.8%
2-Fluorophenol	80.3%	d4-2-Chlorophenol	81.6%
d4-1,2-Dichlorobenzene	65.2%	d5-Nitrobenzene	83.2%
2,4,6-Tribromophenol	57.9%	d14-p-Terphenyl	90.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by Selected Ion Monitoring GC/MS **Sample ID: LCS-100608**
Page 1 of 1 **LAB CONTROL SAMPLE**

Lab Sample ID: LCS-100608
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 10/06/08
Date Analyzed LCS: 10/07/08 14:32
Instrument/Analyst LCS: NT2/VTS

Sample Amount LCS: 16.0 g-dry-wt
Final Extract Volume LCS: 1.0 mL
Dilution Factor LCS: 1.00

Analyte	LCS	Spike Added	Recovery
Dibenz(a,h)anthracene	131	156	84.0%
1,4-Dichlorobenzene	115	156	73.7%
1,2,4-Trichlorobenzene	113	156	72.4%
Hexachlorobenzene	124	156	79.5%
Hexachlorobutadiene	107	156	68.6%
Butylbenzylphthalate	142	156	91.0%
2-Methylphenol	132	156	84.6%
2,4-Dimethylphenol	93.1	156	59.7%
N-Nitrosodiphenylamine	153	156	98.1%
Benzyl Alcohol	93.8	312	30.1%
Pentachlorophenol	134	156	85.9%
1,2-Dichlorobenzene	109	156	69.9%

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

2-Fluorobiphenyl	76.4%
d5-Phenol	70.7%
2-Fluorophenol	82.4%
d4-2-Chlorophenol	83.7%
d4-1,2-Dichlorobenzene	66.0%
d5-Nitrobenzene	66.8%
2,4,6-Tribromophenol	92.8%
d14-p-Terphenyl	107%

4B

SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

NS52MBS1

Lab Name: ANALYTICAL RESOURCES, INC

Client: ANCHOR

ARI Job No: NS52

Project: EDDON BOATYARD

Lab File ID: NS52MBR

Date Extracted: 10/06/08

Instrument ID: NT2

Date Analyzed: 10/07/08

Matrix: SOLID

Time Analyzed: 1615

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	NS52LCSS1	NS52LCSS1	NS52SB	10/07/08
02	EB-SE03-A-081003	NS52C	NS52C	10/07/08
03	EB-SE04-A-081003	NS52E	NS52E	10/07/08
04	EB-SE04-A-08100	NS52EMS	NS52EMS	10/07/08
05	EB-SE04-A-08100	NS52EMSD	NS52EMSD	10/07/08
06				
07				
08				
09				
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COMMENTS:

FORM IV SV

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by Selected Ion Monitoring GC/MS **Sample ID: MB-100608**
Page 1 of 1 **METHOD BLANK**

Lab Sample ID: MB-100608
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 10/06/08
Date Analyzed: 10/07/08 16:15
Instrument/Analyst: NT2/VTS
GPC Cleanup: No
Silica Gel Cleanup: No
Alumina Cleanup: No

Sample Amount: 16.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
53-70-3	Dibenz(a,h)anthracene	6.2	< 6.2 U
106-46-7	1,4-Dichlorobenzene	6.2	< 6.2 U
120-82-1	1,2,4-Trichlorobenzene	6.2	< 6.2 U
118-74-1	Hexachlorobenzene	6.2	< 6.2 U
87-68-3	Hexachlorobutadiene	6.2	< 6.2 U
85-68-7	Butylbenzylphthalate	16	< 16 U
95-48-7	2-Methylphenol	6.2	< 6.2 U
105-67-9	2,4-Dimethylphenol	6.2	< 6.2 U
86-30-6	N-Nitrosodiphenylamine	6.2	< 6.2 U
100-51-6	Benzyl Alcohol	31	< 31 U
87-86-5	Pentachlorophenol	31	< 31 U
95-50-1	1,2-Dichlorobenzene	6.2	< 6.2 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

2-Fluorobiphenyl	68.0%	d5-Phenol	72.0%
2-Fluorophenol	78.9%	d4-2-Chlorophenol	76.5%
d4-1,2-Dichlorobenzene	62.0%	d5-Nitrobenzene	69.6%
2,4,6-Tribromophenol	53.9%	d14-p-Terphenyl	98.4%

PCB

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: EB-SE03-A-081003
SAMPLE

Lab Sample ID: NS52C
LIMS ID: 08-26288
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 09:15
Instrument/Analyst: ECD6/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 45.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.8	< 9.8 U
53469-21-9	Aroclor 1242	9.8	< 9.8 U
12672-29-6	**Aroclor 1248**	**9.8**	**30**
11097-69-1	**Aroclor 1254**	**9.8**	**62**
11096-82-5	**Aroclor 1260**	**9.8**	**20**
11104-28-2	Aroclor 1221	9.8	< 9.8 U
11141-16-5	Aroclor 1232	9.8	< 9.8 U
37324-23-5	Aroclor 1262	9.8	< 9.8 U
11100-14-4	Aroclor 1268	9.8	< 9.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	68.0%
Tetrachlorometaxylene	71.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD

Sample ID: EB-SE04-A-081003
SAMPLE

Lab Sample ID: NS52E
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 09:37
Instrument/Analyst: ECD6/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 27.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.8	< 9.8 U
53469-21-9	Aroclor 1242	9.8	< 9.8 U
12672-29-6	**Aroclor 1248**	**9.8**	**24**
11097-69-1	**Aroclor 1254**	**9.8**	**37**
11096-82-5	**Aroclor 1260**	**9.8**	**10**
11104-28-2	Aroclor 1221	9.8	< 9.8 U
11141-16-5	Aroclor 1232	9.8	< 9.8 U
37324-23-5	Aroclor 1262	9.8	< 9.8 U
11100-14-4	Aroclor 1268	9.8	< 9.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	64.8%
Tetrachlorometaxylene	70.2%

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02

Client ID	DCBP % REC	DCBP LCL-UCL	TCMX % REC	TCMX LCL-UCL	TOT OUT
EB-SE03-A-081003	68.0%	40-139	71.2%	49-120	0
MB-100708	76.8%	59-122	70.5%	47-120	0
LCS-100708	85.5%	59-122	74.8%	47-120	0
EB-SE04-A-081003	64.8%	40-139	70.2%	49-120	0
EB-SE04-A-081003 MS	69.0%	40-139	70.5%	49-120	0
EB-SE04-A-081003 MSD	69.8%	40-139	69.0%	49-120	0

Low Level PSDDA Control Limits
Prep Method: SW3550B
Log Number Range: 08-26288 to 08-26290

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: EB-SE04-A-081003
MS/MSD

Lab Sample ID: NS52E
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted MS/MSD: 10/07/08

Date Analyzed MS: 10/08/08 09:59
MSD: 10/08/08 10:21
Instrument/Analyst MS: ECD6/JGR
MSD: ECD6/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount MS: 26.0 g-dry-wt
MSD: 26.0 g-dry-wt
Final Extract Volume MS: 2.5 mL
MSD: 2.5 mL
Dilution Factor MS: 1.00
MSD: 1.00
Silica Gel: No

Percent Moisture: 27.5%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Aroclor 1016	< 9.8 U	33.2	48.4	68.6%	33.1	48.5	68.2%	0.3%
Aroclor 1260	10.2	41.5	48.4	64.7%	43.8	48.5	69.3%	5.4%

Results reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: EB-SE04-A-081003
MATRIX SPIKE

Lab Sample ID: NS52E
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 09:59
Instrument/Analyst: ECD6/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 26.0 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 27.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.6	---
53469-21-9	Aroclor 1242	9.6	< 9.6 U
12672-29-6	**Aroclor 1248**	**9.6**	**40**
11097-69-1	**Aroclor 1254**	**9.6**	**36**
11096-82-5	Aroclor 1260	9.6	---
11104-28-2	Aroclor 1221	9.6	< 9.6 U
11141-16-5	Aroclor 1232	9.6	< 9.6 U
37324-23-5	Aroclor 1262	9.6	< 9.6 U
11100-14-4	Aroclor 1268	9.6	< 9.6 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	69.0%
Tetrachlorometaxylene	70.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: EB-SE04-A-081003
MATRIX SPIKE DUP

Lab Sample ID: NS52E
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 10:21
Instrument/Analyst: ECD6/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 26.0 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 27.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.6	---
53469-21-9	Aroclor 1242	9.6	< 9.6 U
12672-29-6	**Aroclor 1248**	**9.6**	**53**
11097-69-1	**Aroclor 1254**	**9.6**	**46**
11096-82-5	Aroclor 1260	9.6	---
11104-28-2	Aroclor 1221	9.6	< 9.6 U
11141-16-5	Aroclor 1232	9.6	< 9.6 U
37324-23-5	Aroclor 1262	9.6	< 9.6 U
11100-14-4	Aroclor 1268	9.6	< 9.6 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	69.8%
Tetrachlorometaxylene	69.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: LCS-100708
LAB CONTROL

Lab Sample ID: LCS-100708
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 08:52
Instrument/Analyst: ECD6/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.0 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	36.0	50.4	71.4%
Aroclor 1260	44.4	50.4	88.1%

PCB Surrogate Recovery

Decachlorobiphenyl	85.5%
Tetrachlorometaxylene	74.8%

Results reported in µg/kg (ppb)

PCB METHOD BLANK SUMMARY

BLANK NO.

NS52MBS1

Lab Name: ANALYTICAL RESOURCES, INC
Client: ANCHOR

ARI Job No.: NS52
Project: EDDON BOATYARD

Lab Sample ID: NS52MBS1
Lab File ID: 1007A056

Date Extracted: 10/07/08
Matrix: SOLID

Date Analyzed: 10/08/08
Instrument ID: ECD6

Time Analyzed: 0830
GC Columns: ZB5/ZB35

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	NS52LCSS1	NS52LCSS1	10/08/08
02	EB-SE03-A-081003	NS52C	10/08/08
03	EB-SE04-A-081003	NS52E	10/08/08
04	EB-SE04-A-08100 MS	NS52EMS	10/08/08
05	EB-SE04-A-08100 MSD	NS52EMSD	10/08/08

ALL RUNS ARE DUAL COLUMN

FORM IV PCB

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: MB-100708
METHOD BLANK

Lab Sample ID: MB-100708
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 08:30
Instrument/Analyst: ECD6/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.0 g
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	10	< 10 U
53469-21-9	Aroclor 1242	10	< 10 U
12672-29-6	Aroclor 1248	10	< 10 U
11097-69-1	Aroclor 1254	10	< 10 U
11096-82-5	Aroclor 1260	10	< 10 U
11104-28-2	Aroclor 1221	10	< 10 U
11141-16-5	Aroclor 1232	10	< 10 U
37324-23-5	Aroclor 1262	10	< 10 U
11100-14-4	Aroclor 1268	10	< 10 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	76.8%
Tetrachlorometaxylene	70.5%

GENERAL CHEMISTRY

SAMPLE RESULTS-CONVENTIONALS
NS52-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 10/07/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Client ID: EB-SE03-A-081003
ARI ID: 08-26288 NS52C

Analyte	Date	Method	Units	RL	Sample
Total Solids	10/03/08 100308#2	EPA 160.3	Percent	0.01	53.70
Total Organic Carbon	10/06/08 100608#1	Plumb,1981	Percent	0.020	2.43

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NS52-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 10/07/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Client ID: EB-SE04-A-081003
ARI ID: 08-26290 NS52E

Analyte	Date	Method	Units	RL	Sample
Total Solids	10/03/08 100308#2	EPA 160.3	Percent	0.01	73.20
Total Organic Carbon	10/06/08 100608#1	Plumb,1981	Percent	0.020	1.21

RL Analytical reporting limit
U Undetected at reported detection limit

MS/MSD RESULTS-CONVENTIONALS
NS52-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 10/07/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: NS52C Client ID: EB-SE03-A-081003						
Total Organic Carbon	10/06/08	Percent	2.43	5.19	2.60	106.3%

REPLICATE RESULTS-CONVENTIONALS
NS52-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 10/07/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: NS52C Client ID: EB-SE03-A-081003					
Total Solids	10/03/08	Percent	53.70	50.80 53.00	2.9%
Total Organic Carbon	10/06/08	Percent	2.43	2.57 3.25	16.0%

LAB CONTROL RESULTS-CONVENTIONALS
NS52-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 10/07/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon	10/06/08	Percent	0.498	0.500	99.6%

METHOD BLANK RESULTS-CONVENTIONALS
NS52-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 10/07/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	10/03/08	Percent	< 0.01 U
	10/03/08		< 0.01 U
Total Organic Carbon	10/06/08	Percent	< 0.020 U

STANDARD REFERENCE RESULTS-CONVENTIONALS
NS52-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 10/07/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon NIST #8704	10/06/08	Percent	3.63	3.35	108.4%

GEOTECH

Anchor Environmental, LLC
Eddon Boatyard 040289-02

Apparent Grain Size Distribution Summary
Percent Finer Than Indicated Size

Sample No.	Gravel			Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt				Clay	
Phi Size	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
Sieve Size (microns)	3/8"	#4	#10 (2000)	#18 (1000)	#35 (500)	#60 (250)	#120 (125)	#230 (62)	31.00	15.60	7.80	3.90	2.00	1.00
NI75 A-1	100.0	100.0	98.6	97.2	96.2	93.2	80.1	71.9	64.8	53.3	38.5	25.1	15.4	9.8
NI75 A-2	100.0	100.0	98.9	97.2	96.1	93.0	79.3	70.9	64.1	52.7	37.7	24.2	15.1	9.8
NI75 A-3	100.0	100.0	98.6	97.2	96.1	93.1	80.0	71.9	64.9	53.1	38.1	24.1	14.9	9.5
EB-SE03-A-081003	100.0	100.0	98.4	96.5	93.8	79.9	57.3	40.0	36.4	26.1	19.6	15.5	12.1	8.4
EB-SE04-A-081003	100.0	98.8	92.1	86.6	74.9	47.4	29.0	22.1	16.3	11.1	8.2	6.1	5.1	3.6

Notes to the Testing:

1. Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.

Anchor Environmental, LLC
Eddon Boatyard 040289-02

Apparent Grain Size Distribution Summary
Percent Retained in Each Size Fraction

Sample No.	Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Coarse Silt	Medium Silt	Fine Silt	Very Fine Silt	Clay			Total Fines
Phi Size	> -1	-1 to 0	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	< 10	<4
Sieve Size (microns)	> #10 (2000)	10 to 18 (2000-1000)	18-35 (1000-500)	35-60 (500-250)	60-120 (250-125)	120-230 (125-62)	62.5-31.0	31.0-15.6	15.6-7.8	7.8-3.9	3.9-2.0	2.0-1.0	<1.0	<230 (<62)
NI75 A-1	1.4	1.4	1.0	3.0	13.1	8.1	7.2	11.4	14.8	13.4	9.7	5.6	9.8	71.9
NI75 A-2	1.1	1.8	1.0	3.2	13.7	8.4	6.8	11.4	15.0	13.6	9.0	5.4	9.8	70.9
NI75 A-3	1.4	1.4	1.1	2.9	13.2	8.1	6.9	11.8	15.0	14.1	9.2	5.4	9.5	71.9
EB-SE03-A-081003	1.6	1.9	2.6	14.0	22.6	17.3	3.6	10.3	6.4	4.2	3.4	3.7	8.4	40.0
EB-SE04-A-081003	7.9	5.4	11.7	27.6	18.4	6.9	5.8	5.1	3.0	2.1	1.0	1.4	3.6	22.1

Notes to the Testing:
1. Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.

0060

NS52

QA SUMMARY

PROJECT:	Anchor Environmental, LLC	Project No.:	Eddon Boatyard 040289-02
ARI Triplicate Sample ID:	NI75 A	Batch No.:	NS52 -1
		Page:	1 of 1

Relative Standard Deviation, By Phi Size

Sample ID	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
NI75 A-1	100.0	100.0	98.6	97.2	96.2	93.2	80.1	71.9	64.8	53.3	38.5	25.1	15.4	9.8
NI75 A-2	100.0	100.0	98.9	97.2	96.1	93.0	79.3	70.9	64.1	52.7	37.7	24.2	15.1	9.8
NI75 A-3	100.0	100.0	98.6	97.2	96.1	93.1	80.0	71.9	64.9	53.1	38.1	24.1	14.9	9.5
AVE	NA	100.00	98.71	97.17	96.12	93.09	79.77	71.56	64.59	53.04	38.13	24.45	15.15	9.70
STDEV	NA	0.00	0.19	0.01	0.05	0.12	0.45	0.59	0.46	0.31	0.39	0.60	0.25	0.14
%RSD	NA	0.00	0.19	0.01	0.05	0.13	0.56	0.82	0.72	0.59	1.01	2.45	1.62	1.47

The Triplicate Applies To The Following Samples

Client ID	Date Sampled	Date Extracted	Date Complete	QA Ratio (95-105)	Data Qualifiers	Pipette Portion (5.0-25.0g)
NI75 A-1	8/1/2008	8/30/2008	9/4/2008	101.5		23.6
NI75 A-2	8/1/2008	8/30/2008	9/4/2008	101.1		23.3
NI75 A-3	8/1/2008	8/30/2008	9/4/2008	101.1		23.4
EB-SE03-A-081003	10/3/2008	10/7/2008	10/15/2008	100.3		9.0
EB-SE04-A-081003	10/3/2008	10/7/2008	10/15/2008	101.5		7.8

* ARI Internal QA limits = 95-105%

Notes to the Testing:

1. Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.

NS52

TOTAL SOLIDS

Extractions Total Solids-extts
Data By: Tarry Hawk
Created: 10/ 5/08

Worklist: 873
Analyst: NTC
Comments:

	ARI ID / CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1.	NS52C 08-26288 EB-SE03-A-081003	1.06	12.94	7.58	54.9	NR
2.	NS52E 08-26290 EB-SE04-A-081003	1.14	12.18	9.14	72.5	NR

Laboratory Data Package

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NOS: NS52

prepared
by

Analytical Resources, Inc.

Semivolatile Organics
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NOS: NS52

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
MB-100708	65.6%	69.6%	83.2%	66.8%	72.5%	66.7%	84.5%	70.1%	0
LCS-100708	64.8%	69.2%	84.0%	64.4%	72.8%	65.3%	90.7%	66.1%	0
EB-SE03-A-081003	66.4%	75.2%	84.8%	62.4%	73.1%	65.9%	99.7%	72.0%	0
EB-SE03-A-081003 MS	64.4%	69.6%	80.4%	61.2%	71.7%	64.8%	90.7%	67.7%	0
EB-SE03-A-081003 MSD	65.6%	70.8%	80.0%	60.0%	73.3%	66.1%	89.9%	69.1%	0
EB-SE04-A-081003	62.0%	67.6%	78.4%	57.6%	63.2%	61.9%	86.7%	65.9%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(37-85)	(29-87)
(FBP) = 2-Fluorobiphenyl	(39-82)	(32-88)
(TPH) = d14-p-Terphenyl	(38-105)	(21-97)
(DCB) = d4-1,2-Dichlorobenzene	(33-79)	(25-82)
(PHL) = d5-Phenol	(40-85)	(29-85)
(2FP) = 2-Fluorophenol	(20-93)	(10-114)
(TBP) = 2,4,6-Tribromophenol	(40-96)	(25-103)
(2CP) = d4-2-Chlorophenol	(41-81)	(30-84)

Prep Method: SW3550B
Log Number Range: 08-26288 to 08-26290

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
Page 1 of 1

Sample ID: EB-SE03-A-081003
MS/MSD

Lab Sample ID: NS52C
LIMS ID: 08-26288
Matrix: Sediment
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted MS/MSD: 10/07/08

Date Analyzed MS: 10/08/08 21:10
MSD: 10/08/08 21:44
Instrument/Analyst MS: NT6/LJR
MSD: NT6/LJR
GPC Cleanup: NO

Sample Amount MS: 25.5 g-dry-wt
MSD: 25.6 g-dry-wt
Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL
Dilution Factor MS: 1.00
MSD: 1.00
Percent Moisture: 45.1 %

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Phenol	< 19.5	325	491	66.2%	316	488	64.8%	2.8%
1,3-Dichlorobenzene	< 19.5	306	491	62.3%	311	488	63.7%	1.6%
1,4-Dichlorobenzene	< 19.5	311	491	63.3%	314	488	64.3%	1.0%
Benzyl Alcohol	< 19.5	325	982	33.1%	243	976	24.9%	28.9%
1,2-Dichlorobenzene	< 19.5	319	491	65.0%	324	488	66.4%	1.6%
2-Methylphenol	< 19.5	339	491	69.0%	336	488	68.9%	0.9%
4-Methylphenol	< 19.5	683	982	69.6%	668	976	68.4%	2.2%
2,4-Dimethylphenol	< 19.5	369	491	75.2%	364	488	74.6%	1.4%
Benzoic Acid	< 195	831	1470	56.5%	862	1460	59.0%	3.7%
1,2,4-Trichlorobenzene	< 19.5	360	491	73.3%	361	488	74.0%	0.3%
Naphthalene	11.7	371	491	73.2%	370	488	73.4%	0.3%
Hexachlorobutadiene	< 19.5	370	491	75.4%	373	488	76.4%	0.8%
2-Methylnaphthalene	< 19.5	428	491	87.2%	421	488	86.3%	1.6%
Dimethylphthalate	50.4	424	491	76.1%	425	488	76.8%	0.2%
Acenaphthylene	21.6	395	491	76.0%	396	488	76.7%	0.3%
Acenaphthene	15.8	355	491	69.1%	356	488	69.7%	0.3%
Dibenzofuran	< 19.5	413	491	84.1%	410	488	84.0%	0.7%
Diethylphthalate	< 19.5	371	491	75.6%	366	488	75.0%	1.4%
Fluorene	26.1	440	491	84.3%	448	488	86.5%	1.8%
N-Nitrosodiphenylamine	< 19.5	501	491	102%	493	488	101%	1.6%
Hexachlorobenzene	< 19.5	449	491	91.4%	428	488	87.7%	4.8%
Pentachlorophenol	< 97.3	430	491	87.6%	413	488	84.6%	4.0%
Phenanthrene	216	616	491	81.5%	770	488	114%	22.2%
Anthracene	43.6	462	491	85.2%	468	488	87.0%	1.3%
Di-n-Butylphthalate	23.9	442	491	85.2%	432	488	83.6%	2.3%
Fluoranthene	422	899	491	97.1%	1180	488	155%	27.0%
Pyrene	419	789	491	75.4%	957	488	110%	19.2%
Butylbenzylphthalate	< 19.5	454	491	92.5%	539	488	110%	17.1%
Benzo(a)anthracene	173	588	491	84.5%	589	488	85.2%	0.2%
bis(2-Ethylhexyl)phthalate	476	615	491	28.3%	589	488	23.2%	4.3%
Chrysene	228	626	491	81.1%	721	488	101%	14.1%
Di-n-Octyl phthalate	< 19.5	404	491	82.3%	391	488	80.1%	3.3%
Benzo(b)fluoranthene	180	724	491	111%	760	488	119%	4.9%
Benzo(k)fluoranthene	186	655	491	95.5%	730	488	111%	10.8%
Benzo(a)pyrene	189	539	491	71.3%	559	488	75.8%	3.6%
Indeno(1,2,3-cd)pyrene	66.0	342	491	56.2%	325	488	53.1%	5.1%
Dibenz(a,h)anthracene	11.1	305	491	59.9%	290	488	57.2%	5.0%
Benzo(g,h,i)perylene	66.7	278	491	43.0%	266	488	40.8%	4.4%
1-Methylnaphthalene	< 19.5	425	491	86.6%	421	488	86.3%	0.9%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: LCS-100708
LAB CONTROL

Lab Sample ID: LCS-100708
LIMS ID: 08-26288
Matrix: Sediment
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 13:16
Instrument/Analyst: NT6/LJR
GPC Cleanup: NO

Sample Amount: 25.0 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Phenol	335	500	67.0%
1,3-Dichlorobenzene	320	500	64.0%
1,4-Dichlorobenzene	318	500	63.6%
Benzyl Alcohol	512	1000	51.2%
1,2-Dichlorobenzene	329	500	65.8%
2-Methylphenol	329	500	65.8%
4-Methylphenol	697	1000	69.7%
2,4-Dimethylphenol	360	500	72.0%
Benzoic Acid	1150	1500	76.7%
1,2,4-Trichlorobenzene	348	500	69.6%
Naphthalene	354	500	70.8%
Hexachlorobutadiene	368	500	73.6%
2-Methylnaphthalene	406	500	81.2%
Dimethylphthalate	380	500	76.0%
Acenaphthylene	375	500	75.0%
Acenaphthene	334	500	66.8%
Dibenzofuran	396	500	79.2%
Diethylphthalate	385	500	77.0%
Fluorene	414	500	82.8%
N-Nitrosodiphenylamine	533	500	107%
Hexachlorobenzene	468	500	93.6%
Pentachlorophenol	437	500	87.4%
Phenanthrene	430	500	86.0%
Anthracene	442	500	88.4%
Di-n-Butylphthalate	473	500	94.6%
Fluoranthene	499	500	99.8%
Pyrene	419	500	83.8%
Butylbenzylphthalate	472	500	94.4%
Benzo(a)anthracene	462	500	92.4%
bis(2-Ethylhexyl)phthalate	520	500	104%
Chrysene	384	500	76.8%
Di-n-Octyl phthalate	422	500	84.4%
Benzo(b)fluoranthene	479	500	95.8%
Benzo(k)fluoranthene	473	500	94.6%
Benzo(a)pyrene	385	500	77.0%
Indeno(1,2,3-cd)pyrene	379	500	75.8%
Dibenz(a,h)anthracene	434	500	86.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: LCS-100708
LAB CONTROL

Lab Sample ID: LCS-100708
LIMS ID: 08-26288
Matrix: Sediment
Date Analyzed: 10/08/08 13:16

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02

Analyte	Lab Control	Spike Added	Recovery
Benzo(g,h,i)perylene	410	500	82.0%
1-Methylnaphthalene	403	500	80.6%

Semivolatile Surrogate Recovery	
d5-Nitrobenzene	64.8%
2-Fluorobiphenyl	69.2%
d14-p-Terphenyl	84.0%
d4-1,2-Dichlorobenzene	64.4%
d5-Phenol	72.8%
2-Fluorophenol	65.3%
2,4,6-Tribromophenol	90.7%
d4-2-Chlorophenol	66.1%

Results reported in µg/kg

4B

SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

NS52MBS1

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS52 Project: EDDON BOATYARD

Lab File ID: NS52MB Date Extracted: 10/07/08

Instrument ID: NT6 Date Analyzed: 10/08/08

Matrix: SOLID Time Analyzed: 1243

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	NS52LCSS1	NS52LCSS1	NS52SB	10/08/08
02	EB-SE03-A-081003	NS52C	NS52C	10/08/08
03	EB-SE03-A-08100	NS52CMS	NS52CMS	10/08/08
04	EB-SE03-A-08100	NS52CMSD	NS52CMD	10/08/08
05	EB-SE04-A-081003	NS52E	NS52E	10/08/08
06				
07				
08				
09				
10				
11				
12				
13				
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COMMENTS:

FORM IV SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

Instrument ID: NT6 Project: EDDON BOATYARD

DFTPP Injection Date: 09/15/08 DFTPP Injection Time: 1135

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	67.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	59.6
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	60.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	20.7
365	Greater than 0.75% of mass 198	2.06
441	Present, but less than mass 443	10.3
442	40.0 - 110.0% of mass 198	70.9
443	15.0 - 24.0% of mass 442	13.6 (19.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ABN 25	ABN 25	0250915	09/15/08	1135
02	ABN 80	ABN 80	0800915	09/15/08	1210
03	ABN 1	ABN 1	0010915	09/15/08	1245
04	ABN 40	ABN 40	0400915	09/15/08	1320
05	ABN 5	ABN 5	0050915	09/15/08	1355
06	ABN 10	ABN 10	0100915	09/15/08	1430
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

Instrument ID: NT6 Project: EDDON BOATYARD

DFTPP Injection Date: 10/08/08 DFTPP Injection Time: 1209

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	66.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	60.5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	60.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	22.9
365	Greater than 0.75% of mass 198	2.86
441	Present, but less than mass 443	12.4
442	40.0 - 110.0% of mass 198	81.6
443	15.0 - 24.0% of mass 442	16.0 (19.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ABN CCAL	ABN 25	CC1008	10/08/08	1209
02	NS52MBS1	NS52MBS1	NS52MB	10/08/08	1243
03	NS52LCSS1	NS52LCSS1	NS52SB	10/08/08	1316
04	EB-SE03-A-081003	NS52C	NS52C	10/08/08	2037
05	EB-SE03-A-08100	NS52CMS	NS52CMS	10/08/08	2110
06	EB-SE03-A-08100	NS52CMSD	NS52CMD	10/08/08	2144
07	EB-SE04-A-081003	NS52E	NS52E	10/08/08	2217
08					
09					
10					
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16					
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18					
19					
20					
21					
22					

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS52 Project: EDDON BOATYARD

Cont. Calib. ID: CC1008 Date Analyzed: 10/08/08

Instrument ID: NT6 Time Analyzed: 1209

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	118976	6.51	414286	8.60	208588	11.42
	UPPER LIMIT	237952	7.01	828572	9.10	417176	11.92
	LOWER LIMIT	59488	6.01	207143	8.10	104294	10.92
	CLIENT SAMP. NO.						
01	NS52MBS1	121345	6.51	443238	8.59	227190	11.41
02	NS52LCSS1	121277	6.51	425648	8.59	225568	11.42
03	EB-SE03-A-08	116400	6.51	410906	8.59	215762	11.41
04	EB-SE03-A-08	124563	6.51	434483	8.59	238491	11.42
05	EB-SE03-A-08	121610	6.51	425001	8.59	232817	11.42
06	EB-SE04-A-08	123232	6.51	437686	8.59	234877	11.41
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22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS52 Project: EDDON BOATYARD

Cont. Calib. ID: CC1008 Date Analyzed: 10/08/08

Instrument ID: NT6 Time Analyzed: 1209

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	283346	13.73	273753	17.96	342905	20.05
	UPPER LIMIT	566692	14.23	547506	18.46	685810	20.55
	LOWER LIMIT	141673	13.23	136876	17.46	171452	19.55
	CLIENT SAMP. NO.						
01	NS52MBS1	321172	13.72	321825	17.94	327598	20.05
02	NS52LCSS1	319214	13.73	317063	17.95	340057	20.05
03	EB-SE03-A-08	315456	13.72	306859	17.95	305820	20.06
04	EB-SE03-A-08	342519	13.73	322018	17.96	303518	20.06
05	EB-SE03-A-08	336817	13.73	317483	17.96	289378	20.07
06	EB-SE04-A-08	332627	13.73	330116	17.95	286300	20.06
07							
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20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-2

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS52 Project: EDDON BOATYARD

Cont. Calib. ID: CC1008 Date Analyzed: 10/08/08

Instrument ID: NT6 Time Analyzed: 1209

		IS7 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	485719	19.26				
	UPPER LIMIT	971438	19.76				
	LOWER LIMIT	242860	18.76				
	CLIENT SAMP. NO.						
01	NS52MBS1	554954	19.26				
02	NS52LCSS1	541335	19.26				
03	EB-SE03-A-08	521813	19.26				
04	EB-SE03-A-08	535098	19.27				
05	EB-SE03-A-08	525198	19.27				
06	EB-SE04-A-08	560190	19.26				
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08							
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21							
22							

IS7 = Di-n-octylphthalate-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-3

Semivolatile Organics
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NOS: NS52

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
Page 1 of 2

Sample ID: EB-SE03-A-081003
SAMPLE

Lab Sample ID: NS52C
LIMS ID: 08-26288
Matrix: Sediment
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 20:37
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 45.1%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	< 20 U
541-73-1	1,3-Dichlorobenzene	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	Benzoic Acid	200	< 200 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	**Naphthalene**	**20**	**12 J**
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
131-11-3	**Dimethylphthalate**	**20**	**50**
208-96-8	**Acenaphthylene**	**20**	**22**
83-32-9	**Acenaphthene**	**20**	**16 J**
132-64-9	Dibenzofuran	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	**Fluorene**	**20**	**26**
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	97	< 97 U
85-01-8	**Phenanthrene**	**20**	**220**
120-12-7	**Anthracene**	**20**	**44**
84-74-2	**Di-n-Butylphthalate**	**20**	**24**
206-44-0	**Fluoranthene**	**20**	**420**
129-00-0	**Pyrene**	**20**	**420**
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	**Benzo(a)anthracene**	**20**	**170**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**480**
218-01-9	**Chrysene**	**20**	**230**
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	**Benzo(b)fluoranthene**	**20**	**180**
207-08-9	**Benzo(k)fluoranthene**	**20**	**190**
50-32-8	**Benzo(a)pyrene**	**20**	**190**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**20**	**66**
53-70-3	**Dibenz(a,h)anthracene**	**20**	**11 J**
191-24-2	**Benzo(g,h,i)perylene**	**20**	**67**
90-12-0	1-Methylnaphthalene	20	< 20 U

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: EB-SE03-A-081003
SAMPLE

Lab Sample ID: NS52C
LIMS ID: 08-26288
Matrix: Sediment
Date Analyzed: 10/08/08 20:37

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02

CAS Number	Analyte	RL	Result

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	66.4%	2-Fluorobiphenyl	75.2%
d14-p-Terphenyl	84.8%	d4-1,2-Dichlorobenzene	62.4%
d5-Phenol	73.1%	2-Fluorophenol	65.9%
2,4,6-Tribromophenol	99.7%	d4-2-Chlorophenol	72.0%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20081008.b/ns52c.d
Lab Smp Id: NS52C Client Smp ID: EB-SE03-A-081003
Inj Date : 08-OCT-2008 20:37
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : NS52C
Misc Info : 08-26288
Comment : 1ul Injection
Method : /chem1/nt6.i/20081008.b/SW846.m
Meth Date : 09-Oct-2008 09:21 jeff Quant Type: ISTD
Cal Date : 15-SEP-2008 14:30 Cal File: 0100915.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	46.80000	Weight of sample extracted (g)
M	45.10000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$ 1 2-Fluorophenol	112	4.387	4.354	(0.674)	230740	24.6990	480.7
$ 2 Phenol-d5	99	6.219	6.213	(0.956)	324245	27.3785	532.8
3 Phenol	94	Compound Not Detected.					
$ 5 2-Chlorophenol-d4	132	6.219	6.213	(0.956)	195334	26.9849	525.1
4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6 2-Chlorophenol	128	Compound Not Detected.					
7 1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152	6.508	6.513	(1.000)	116400	20.0000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	6.818	6.817	(1.048)	82221	15.6059	303.7
12 1,2-Dichlorobenzene	146	Compound Not Detected.					
11 Benzyl alcohol	108	Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
13 2-Methylphenol	108	Compound Not Detected.					
17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.						
	15 4-Methylphenol	108	Compound Not Detected.						
$	18 Nitrobenzene-d5	82	7.485	7.496	(0.872)	171887	16.5674	322.4	
	19 Nitrobenzene	77	Compound Not Detected.						
	20 Isophorone	82	Compound Not Detected.						
	21 2-Nitrophenol	139	Compound Not Detected.						
	22 2,4-Dimethylphenol	107	Compound Not Detected.						
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.						
	24 Benzoic acid	105	Compound Not Detected.						
	25 2,4-Dichlorophenol	162	Compound Not Detected.						
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
*	27 Naphthalene-d8	136	8.586	8.596	(1.000)	410906	20.0000		
	28 Naphthalene	128	8.618	8.623	(1.004)	15328	0.59519	11.58	
	29 4-Chloroaniline	127	Compound Not Detected.						
	30 Hexachlorobutadiene	225	Compound Not Detected.						
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.						
	32 2-Methylnaphthalene	141	Compound Not Detected.						
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.						
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.						
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.						
$	36 2-Fluorobiphenyl	172	10.413	10.418	(0.912)	275993	18.8277	366.4	
	37 2-Chloronaphthalene	162	Compound Not Detected.						
	38 2-Nitroaniline	65	Compound Not Detected.						
	39 Dimethylphthalate	163	11.182	11.187	(0.980)	39687	2.59411	50.48	
	40 Acenaphthylene	152	11.155	11.160	(0.978)	24567	1.11128	21.63	(M)
	41 2,6-Dinitrotoluene	165	Compound Not Detected.						
*	42 Acenaphthene-d10	164	11.412	11.417	(1.000)	215762	20.0000		
	43 3-Nitroaniline	138	Compound Not Detected.						
	44 Acenaphthene	153	11.455	11.465	(1.004)	11592	0.80764	15.72	
	45 2,4-Dinitrophenol	184	Compound Not Detected.						
	46 Dibenzofuran	168	Compound Not Detected.						
	47 4-Nitrophenol	109	Compound Not Detected.						
	48 2,4-Dinitrotoluene	165	Compound Not Detected.						
	50 Diethylphthalate	149	Compound Not Detected.						
	49 Fluorene	166	12.261	12.271	(1.074)	21478	1.32884	26.05	
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.						
	52 4-Nitroaniline	138	Compound Not Detected.						
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.						
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.						
$	55 2,4,6-Tribromophenol	330	12.689	12.688	(1.112)	71759	37.4041	727.9	
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.						
	57 Hexachlorobenzene	284	Compound Not Detected.						
	58 Pentachlorophenol	266	Compound Not Detected.						
*	59 Phenanthrene-d10	188	13.725	13.730	(1.000)	315456	20.0000		
	60 Phenanthrene	178	13.757	13.762	(1.002)	235279	11.1103	216.2	
	61 Anthracene	178	13.826	13.837	(1.007)	49905	2.23899	43.57	
	62 Carbazole	167	14.147	14.152	(1.031)	14576	0.72775	14.16	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	63 Di-n-butylphthalate	149	14.948	14.953	(1.089)	30236	1.23035	23.94
	64 Fluoranthene	202	15.653	15.653	(1.141)	421245	21.6948	422.2
	65 Pyrene	202	15.985	15.990	(0.890)	496625	21.5158	418.7
$	66 Terphenyl-d14	244	16.380	16.380	(0.912)	300701	21.2295	413.1
	67 Butylbenzylphthalate	149	Compound Not Detected.					
	68 Benzo(a)anthracene	228	17.929	17.929	(0.999)	192017	8.91315	173.5
*	69 Chrysene-d12	240	17.951	17.955	(1.000)	306859	20.0000	
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	17.988	17.993	(1.002)	254429	11.7301	228.3
	72 bis(2-Ethylhexyl)phthalate	149	18.341	18.340	(0.952)	354550	24.4687	476.2
*	134 Di-n-octylphthalate-d4	153	19.265	19.264	(1.000)	521813	20.0000	
	73 Di-n-octylphthalate	149	Compound Not Detected.					
	74 Benzo(b)fluoranthene	252	19.553	19.553	(0.975)	184715	9.23121	179.6(M)
	75 Benzo(k)fluoranthene	252	19.559	19.585	(0.975)	209282	9.56083	186.1(M)
	76 Benzo(a)pyrene	252	19.975	19.975	(0.996)	185962	9.69325	188.6
*	77 Perylene-d12	264	20.061	20.055	(1.000)	305820	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	21.386	21.390	(1.066)	79706	3.39182	66.01(M)
	79 Dibenzo(a,h)anthracene	278	21.423	21.428	(1.068)	12010	0.56643	11.02(M)
	80 Benzo(g,h,i)perylene	276	21.663	21.674	(1.080)	73931	3.42757	66.70
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	Compound Not Detected.					
	105 1-methylnaphthalene	141	Compound Not Detected.					
	111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: ns52c.d
Lab Smp Id: NS52C
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20081008.b/SW846.m
Misc Info: 08-26288

Calibration Date: 08-OCT-2008
Calibration Time: 12:09
Client Smp ID: EB-SE03-A-081003
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	118976	59488	237952	116400	-2.17
27 Naphthalene-d8	414286	207143	828572	410906	-0.82
42 Acenaphthene-d10	208588	104294	417176	215762	3.44
59 Phenanthrene-d10	283346	141673	566692	315456	11.33
69 Chrysene-d12	273753	136876	547506	306859	12.09
134 Di-n-octylphthala	485719	242860	971438	521813	7.43
77 Perylene-d12	342905	171452	685810	305820	-10.81

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.51	6.01	7.01	6.51	-0.07
27 Naphthalene-d8	8.60	8.10	9.10	8.59	-0.12
42 Acenaphthene-d10	11.42	10.92	11.92	11.41	-0.04
59 Phenanthrene-d10	13.73	13.23	14.23	13.72	-0.04
69 Chrysene-d12	17.96	17.46	18.46	17.95	-0.03
134 Di-n-octylphthala	19.26	18.76	19.76	19.26	0.00
77 Perylene-d12	20.05	19.55	20.55	20.06	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: NS52C
Level: LOW
Data Type: MS DATA
SpikeList File: SEPLCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20081008.b/SW846.m
Misc Info: 08-26288

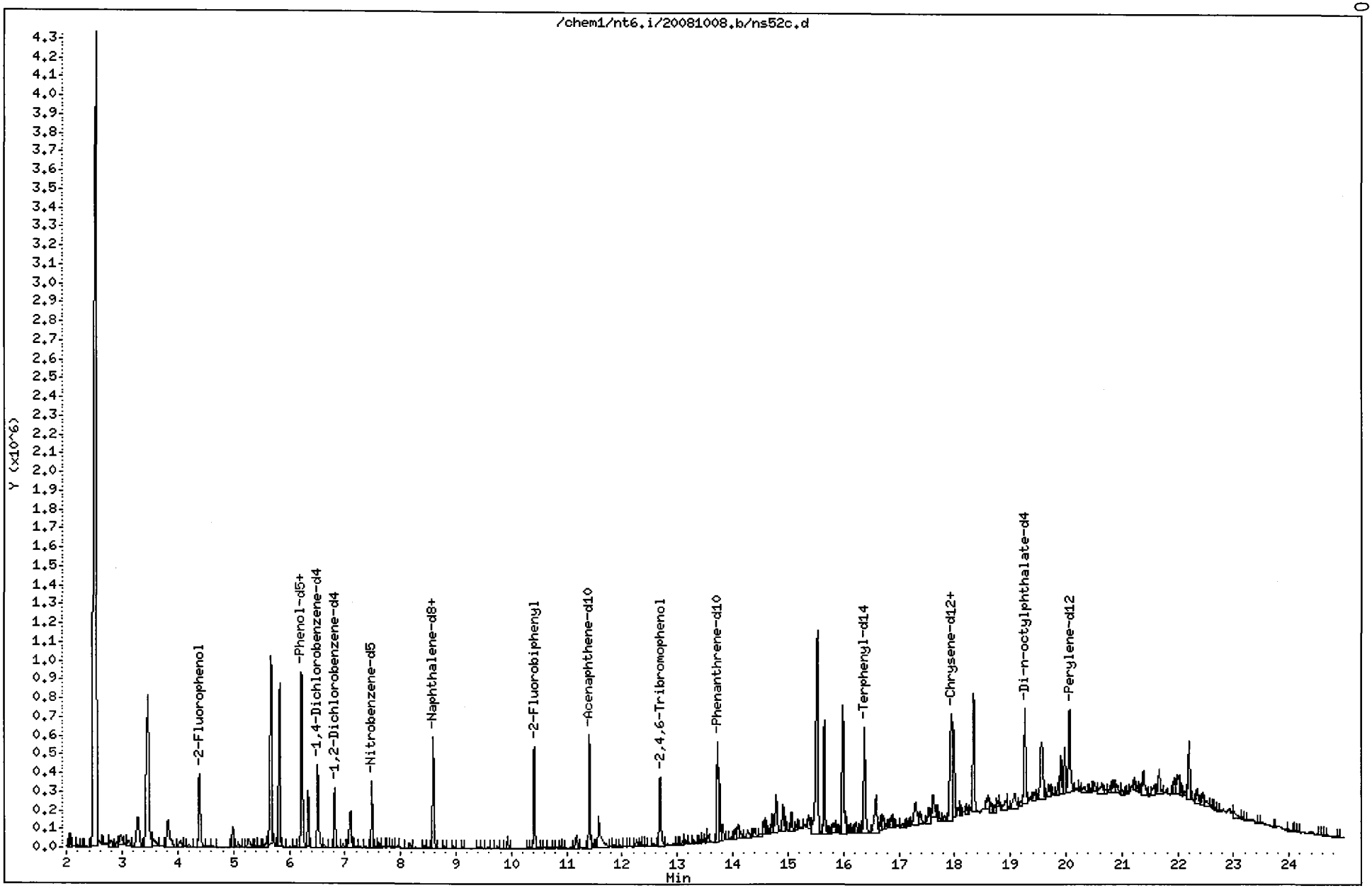
Client SDG: NS52
Fraction: SV
Client Smp ID: EB-SE03-A-081003
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	729.8	480.7	65.86	10-114
$ 2 Phenol-d5	729.8	532.8	73.01	29-85
$ 5 2-Chlorophenol-d4	729.8	525.1	71.96	30-84
$ 10 1,2-Dichlorobenzen	486.5	303.7	62.42	25-82
$ 18 Nitrobenzene-d5	486.5	322.4	66.27	29-87
$ 36 2-Fluorobiphenyl	486.5	366.4	75.31	32-88
$ 55 2,4,6-Tribromophen	729.8	727.9	99.74	25-103
$ 66 Terphenyl-d14	486.5	413.1	84.92	21-97

Data File: /chem1/nt6.i/20081008.b/ns52c.d
Date : 08-OCT-2008 20:37
Client ID: EB-SE03-A-081003
Sample Info: NS52C
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32

0084



Data File: /chem1/nt6.i/20081008.b/ns52c.d

Date : 08-OCT-2008 20:37

Client ID: EB-SE03-A-081003 Instrument: nt6.i

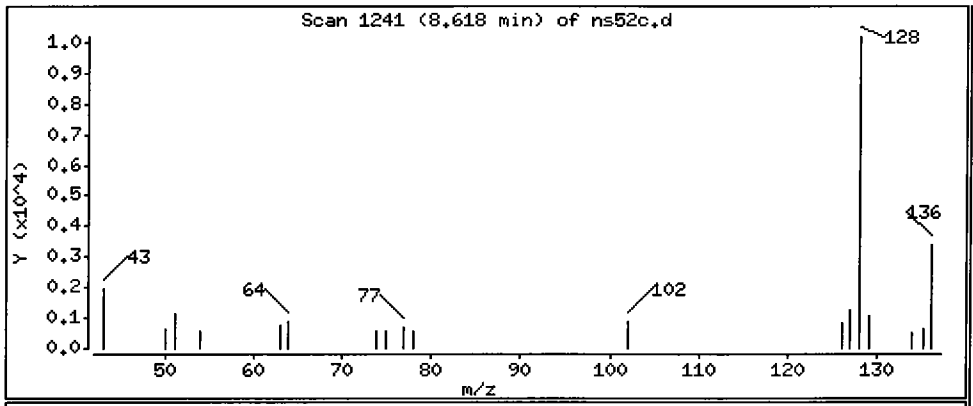
Sample Info: NS52C

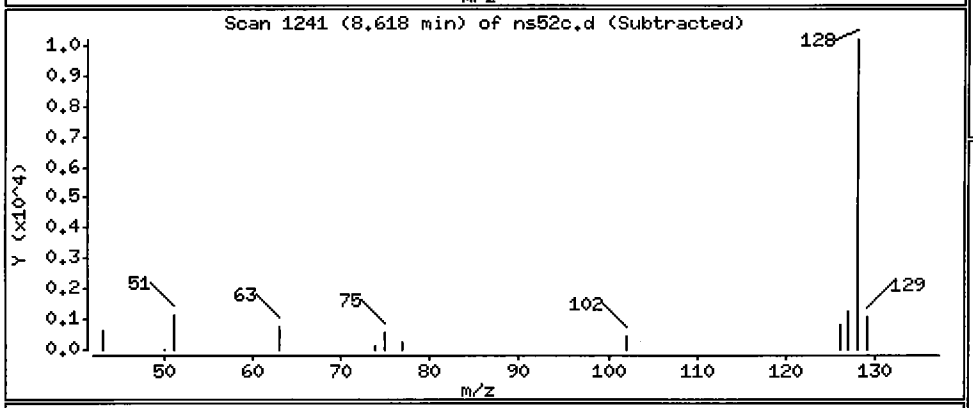
Volume Injected (uL): 1.0 Operator: LJR/VTS

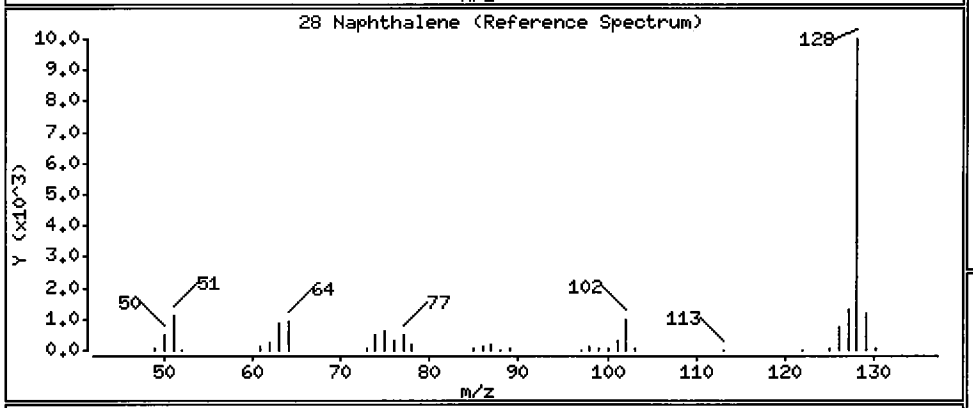
Column phase: ZB-5 Column diameter: 0.32

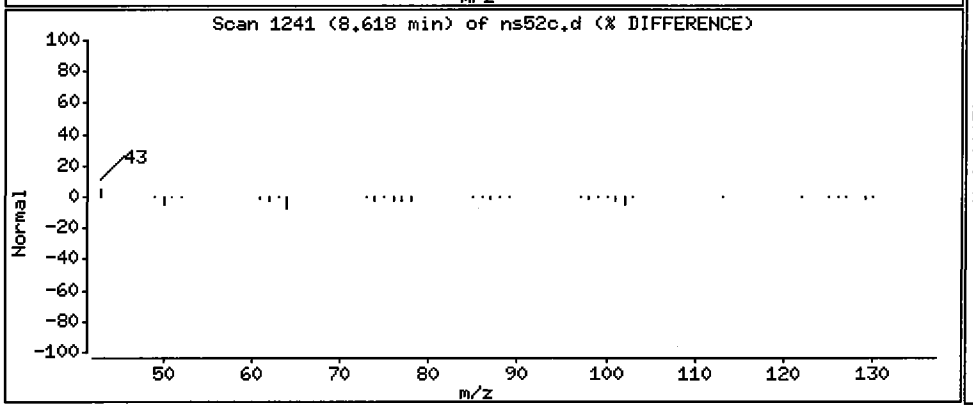
TPC

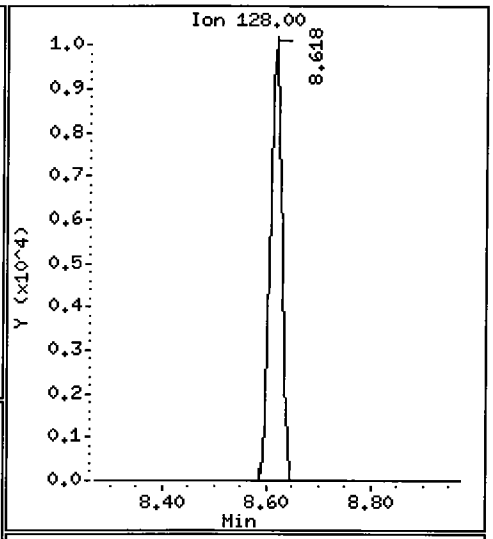
28 Naphthalene Concentration: 11.58 ug/kg

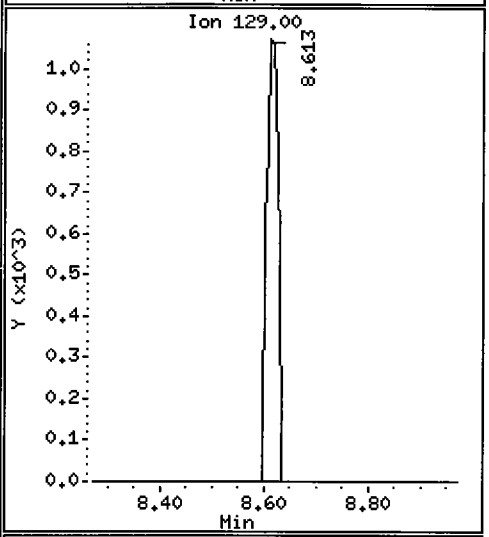


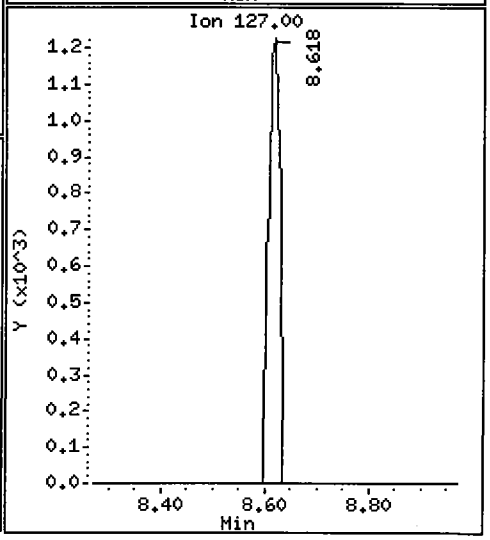












Data File: /chem1/nt6.i/20081008.b/ns52c.d

Date : 08-OCT-2008 20:37

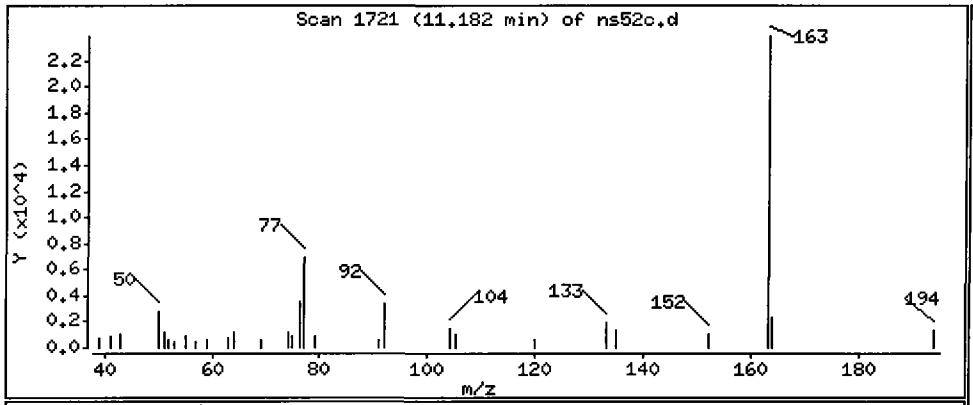
Client ID: EB-SE03-A-081003 Instrument: nt6.i

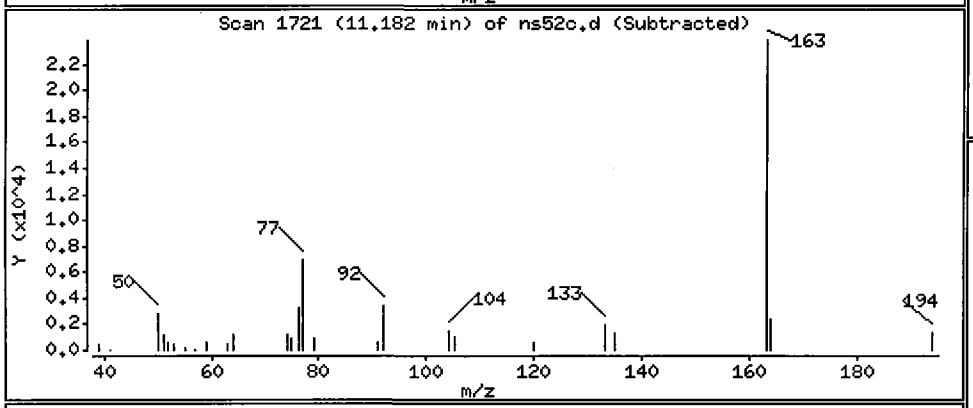
Sample Info: NS52C

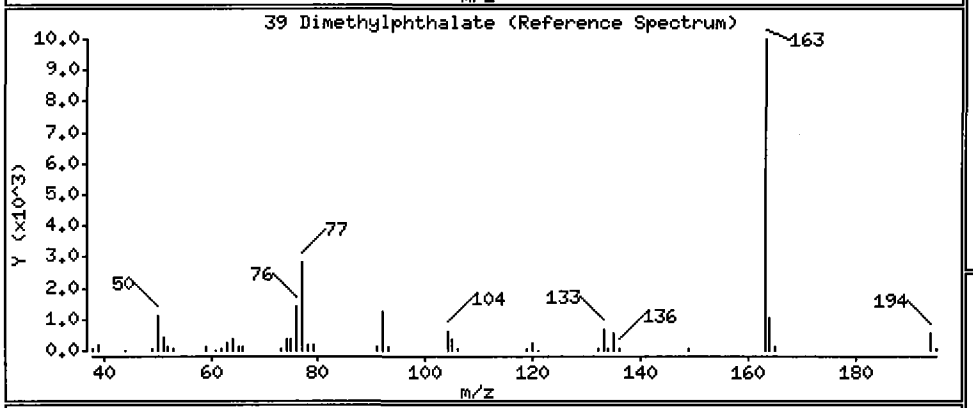
Volume Injected (uL): 1.0 Operator: LJR/VTS

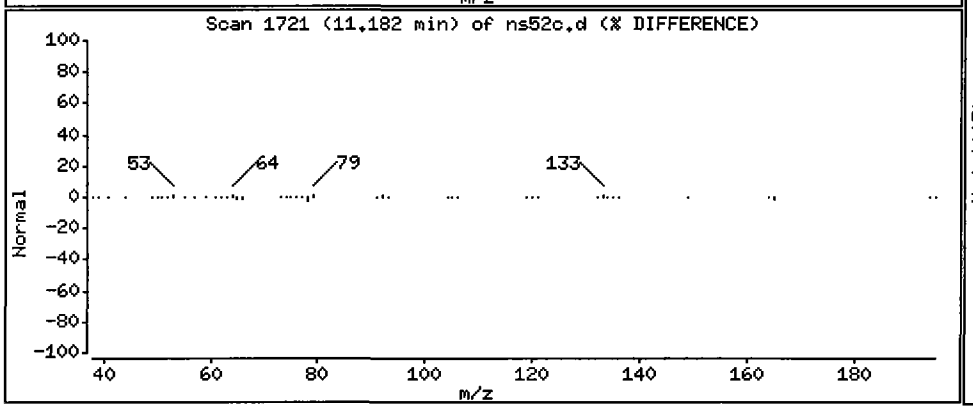
Column phase: ZB-5 Column diameter: 0.32

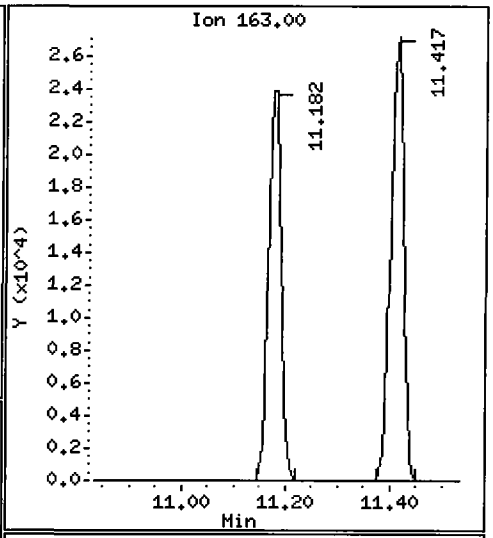
39 Dimethylphthalate Concentration: 50.48 ug/kg

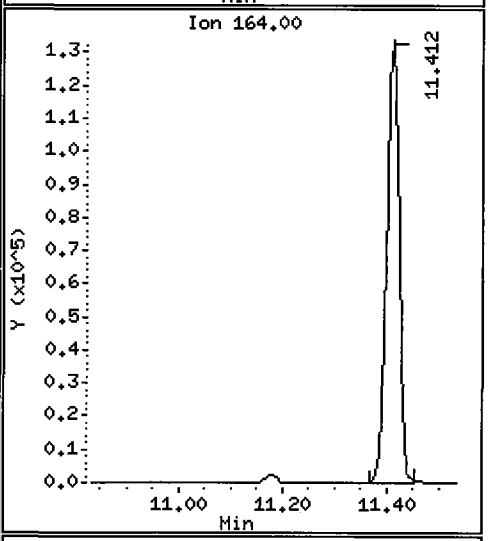


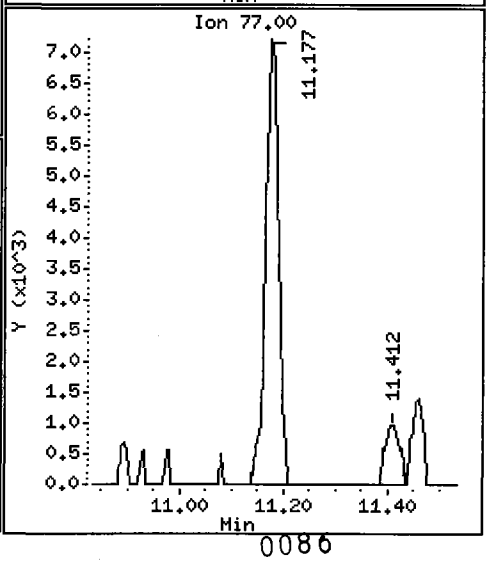












Data File: /chem1/nt6.i/20081008.b/ns52c.d

Date : 08-OCT-2008 20:37

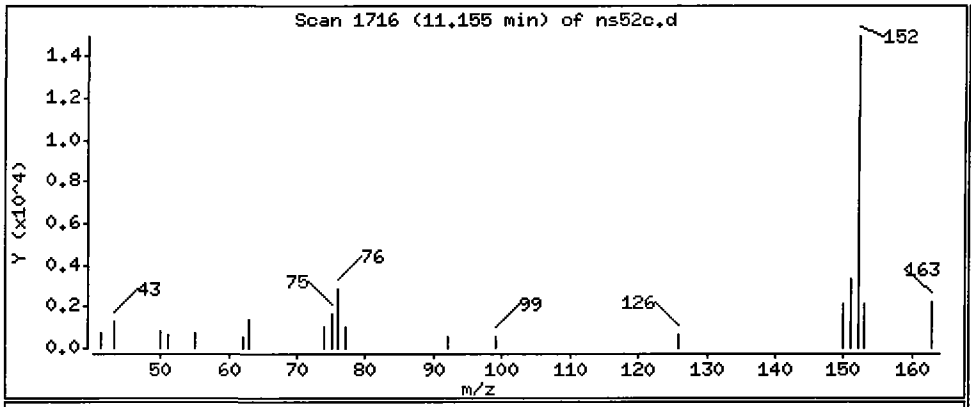
Client ID: EB-SE03-A-081003 Instrument: nt6.i

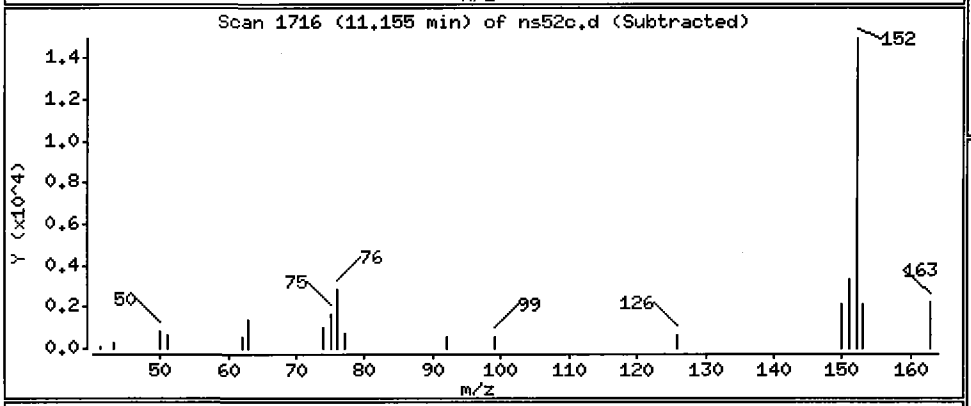
Sample Info: NS52C

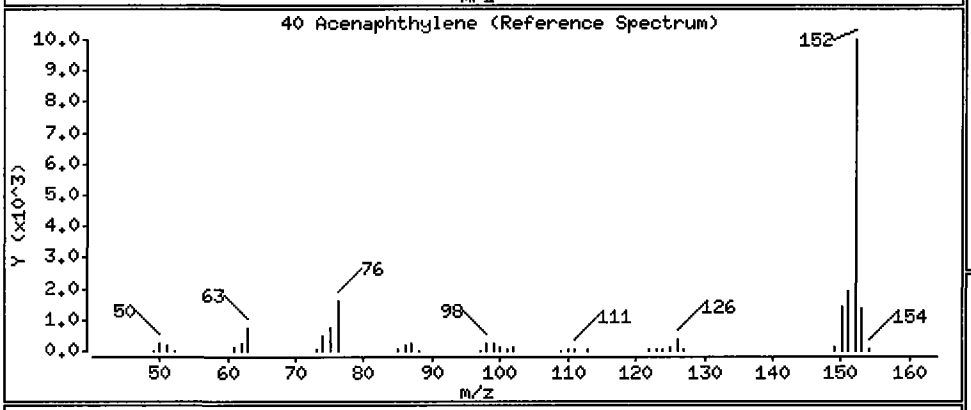
Volume Injected (uL): 1.0 Operator: LJR/VTS

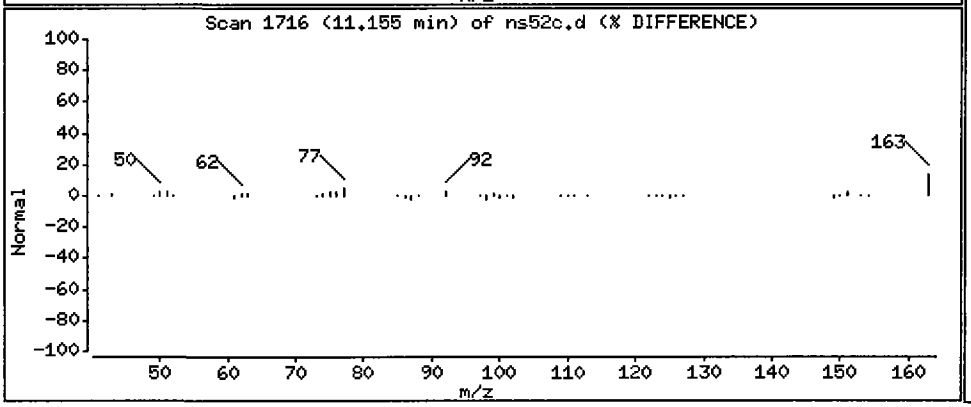
Column phase: ZB-5 Column diameter: 0.32

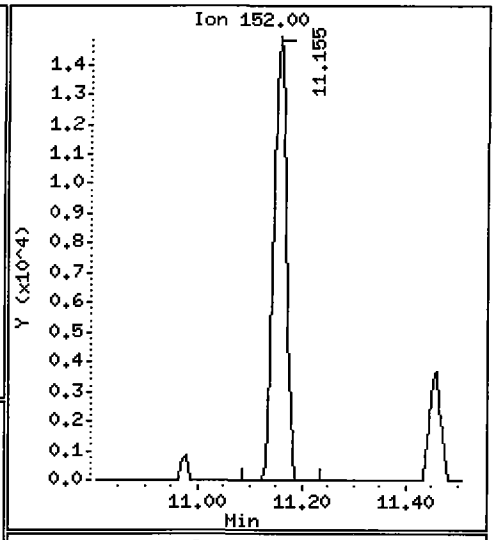
40 Acenaphthylene Concentration: 21.63 ug/kg

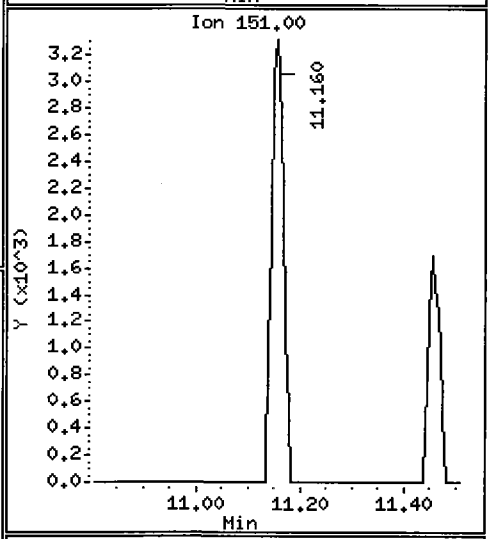


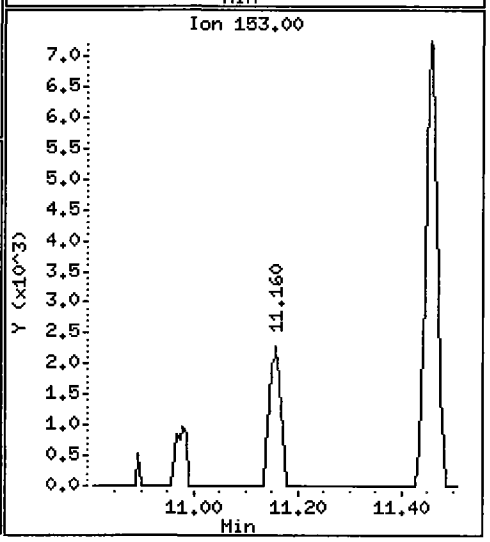












Data File: /chem1/nt6.i/20081008.b/ns52c.d

Date : 08-OCT-2008 20:37

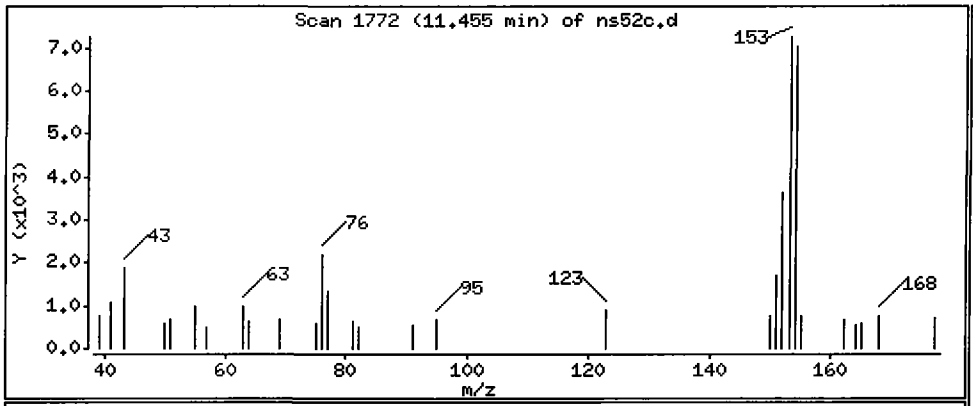
Client ID: EB-SE03-A-081003 Instrument: nt6.i

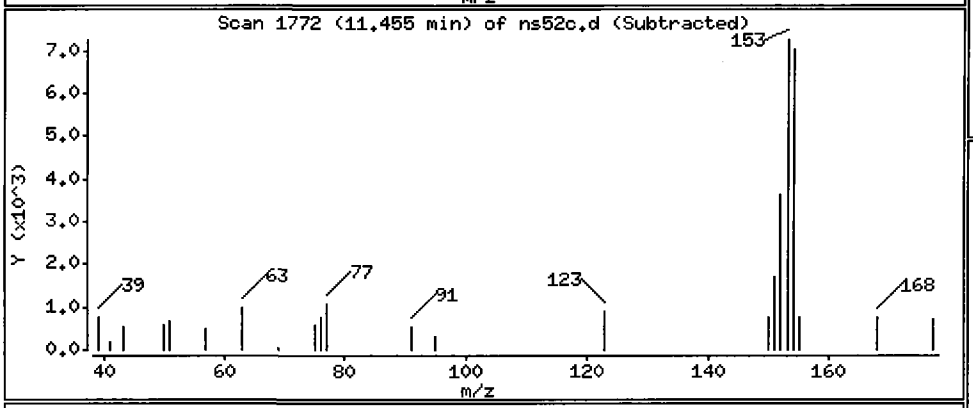
Sample Info: NS52C

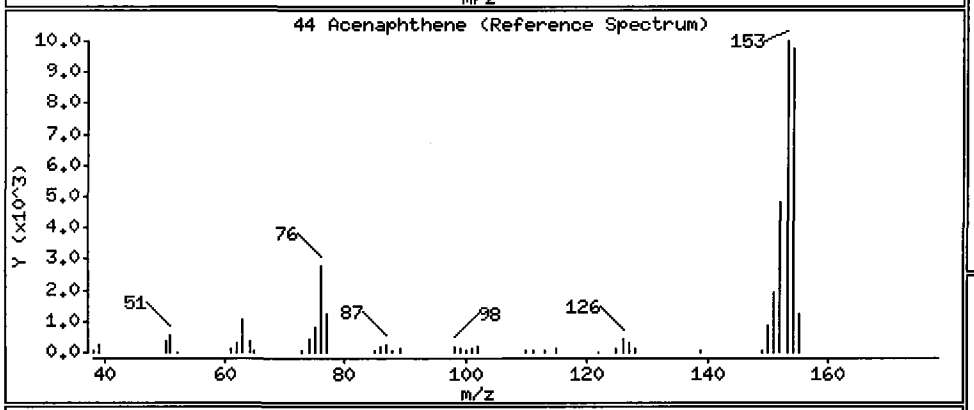
Volume Injected (uL): 1.0 Operator: LJR/VTS

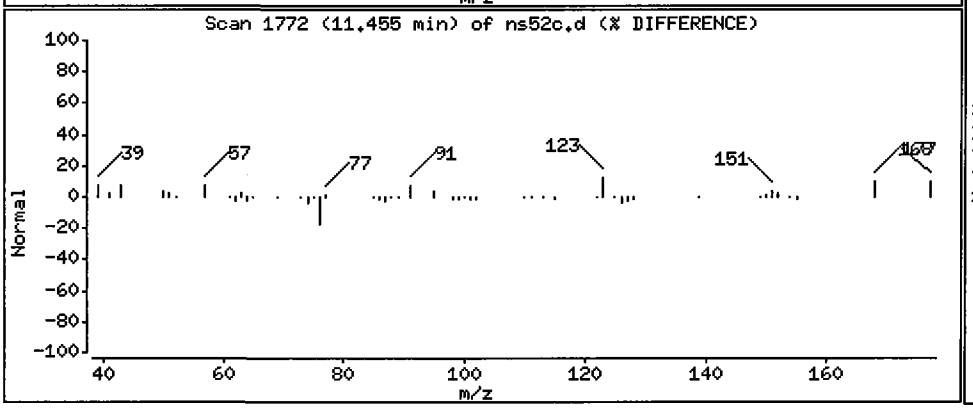
Column phase: ZB-5 Column diameter: 0.32

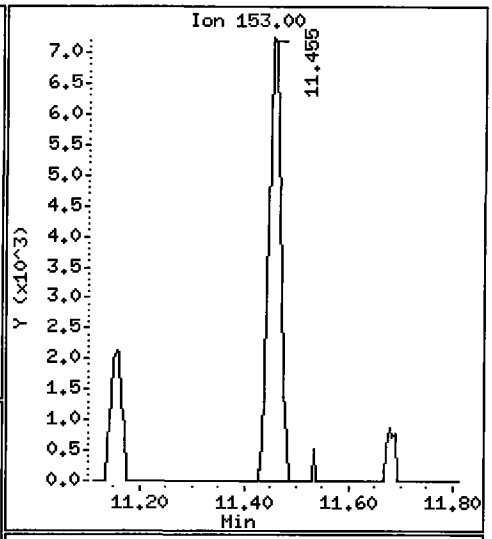
44 Acenaphthene Concentration: 15.72 ug/kg

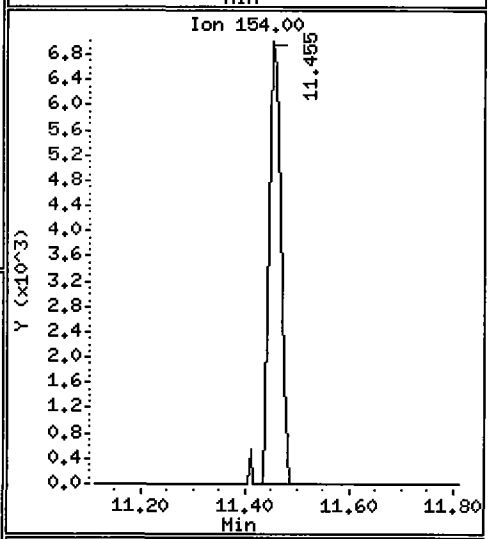


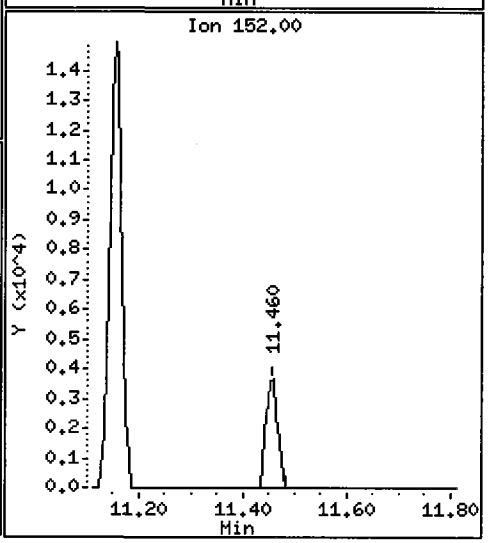












Data File: /chem1/nt6.i/20081008.b/ns52c.d

Date : 08-OCT-2008 20:37

Client ID: EB-SE03-A-081003

Instrument: nt6.i

Sample Info: NS52C

Volume Injected (uL): 1.0

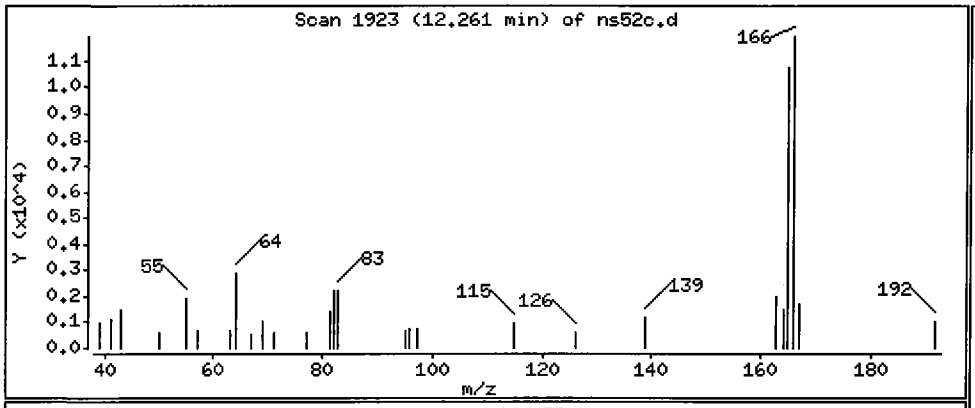
Operator: LJR/VTS

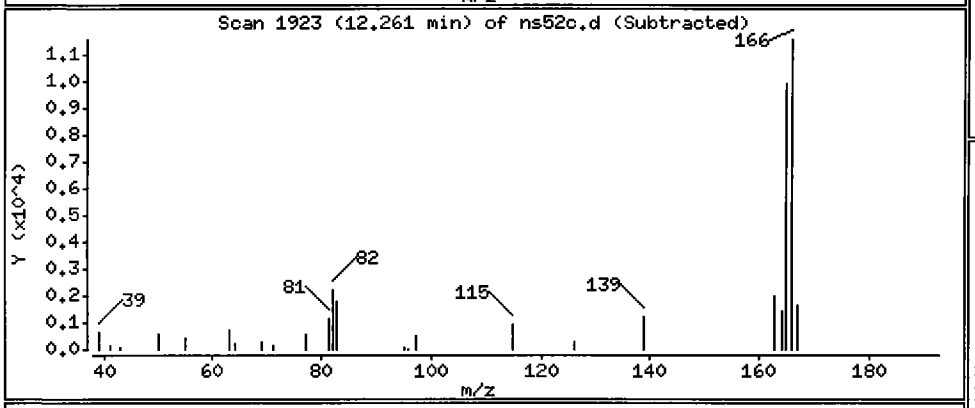
Column phase: ZB-5

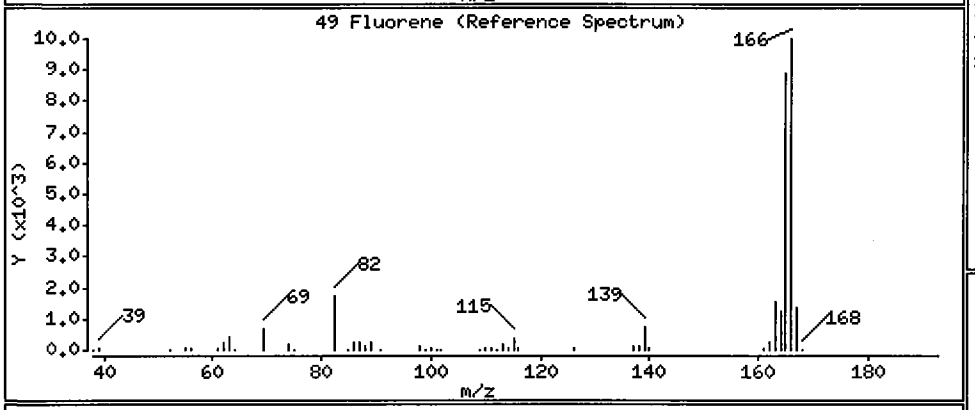
Column diameter: 0.32

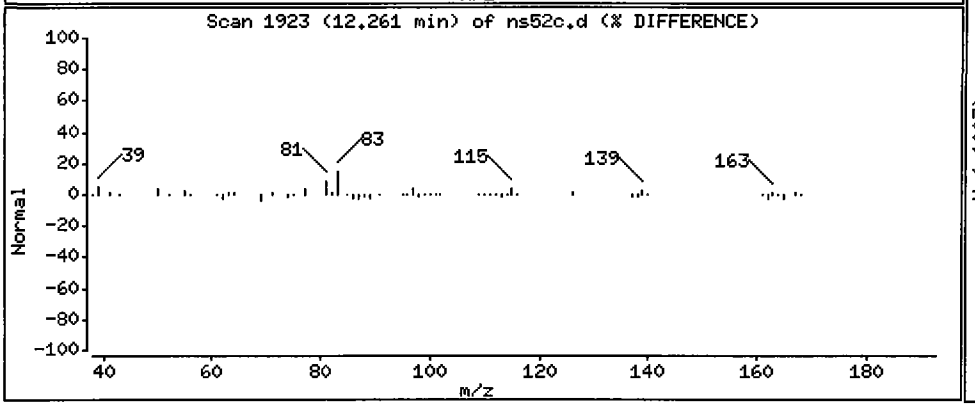
49 Fluorene

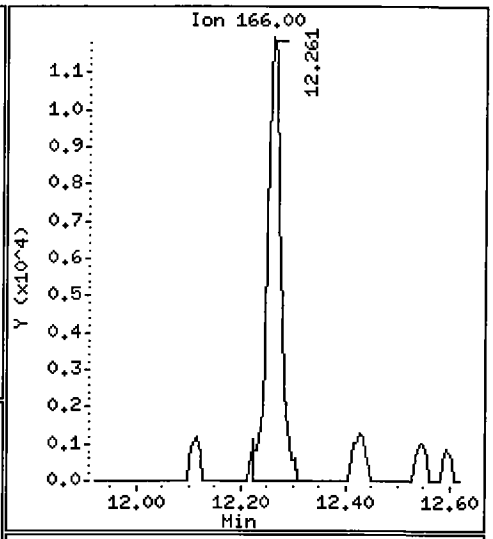
Concentration: 26.05 ug/kg

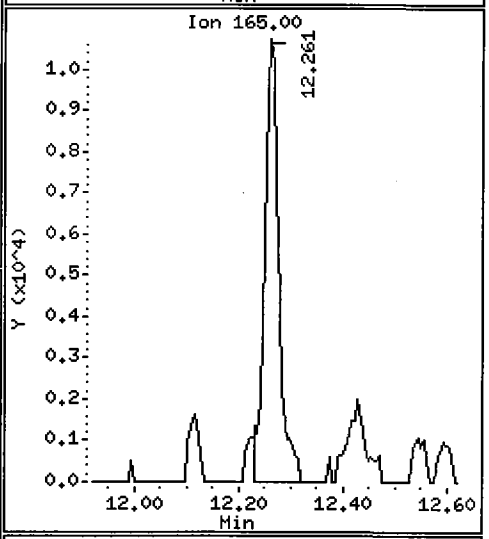


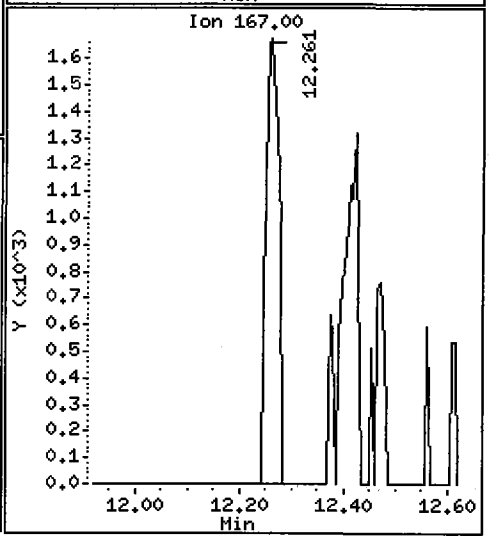












Data File: /chem1/nt6.i/20081008.b/ns52c.d

Date : 08-OCT-2008 20:37

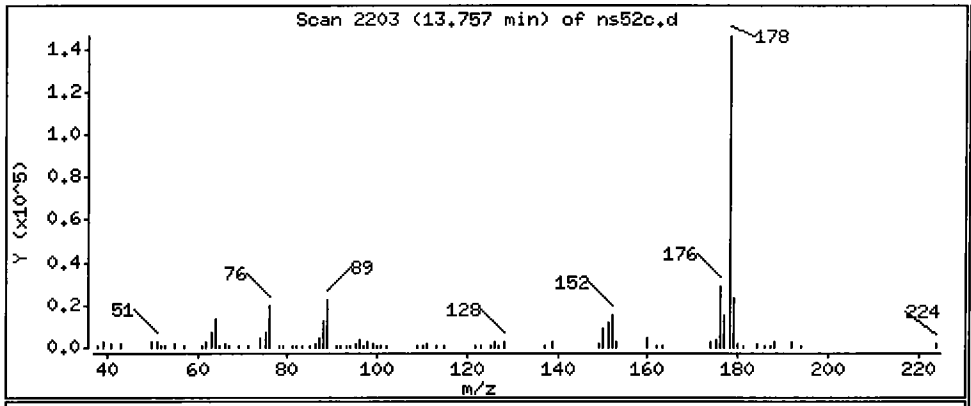
Client ID: EB-SE03-A-081003 Instrument: nt6.i

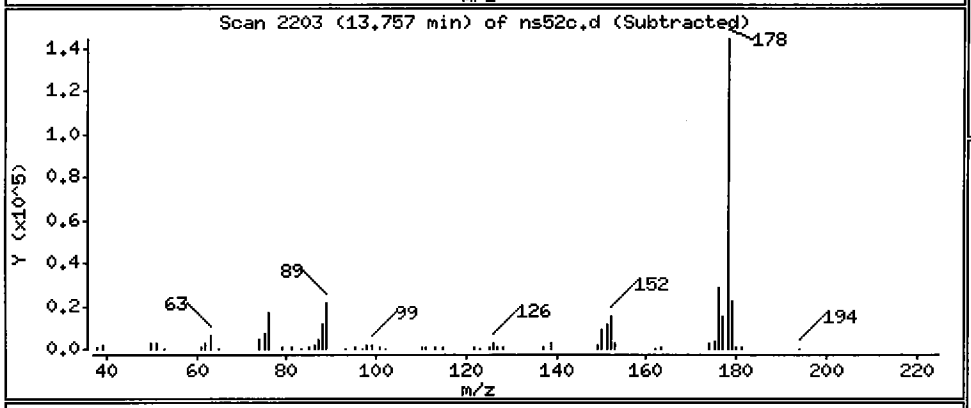
Sample Info: NS52C

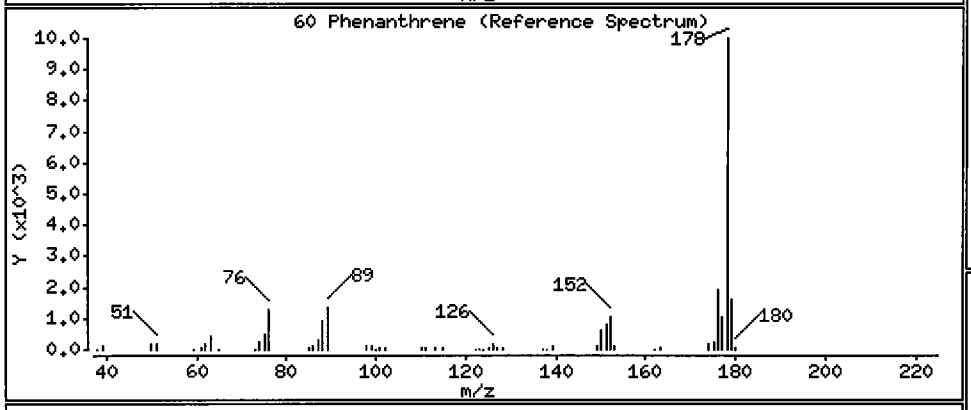
Volume Injected (uL): 1.0 Operator: LJR/VTS

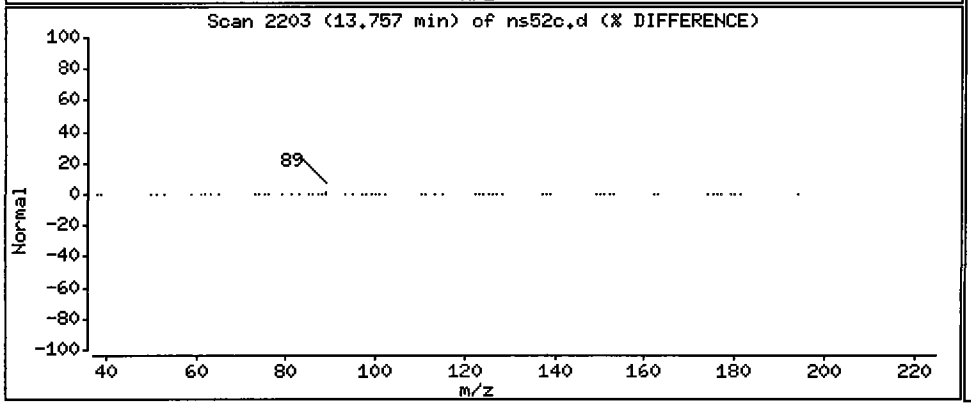
Column phase: ZB-5 Column diameter: 0.32

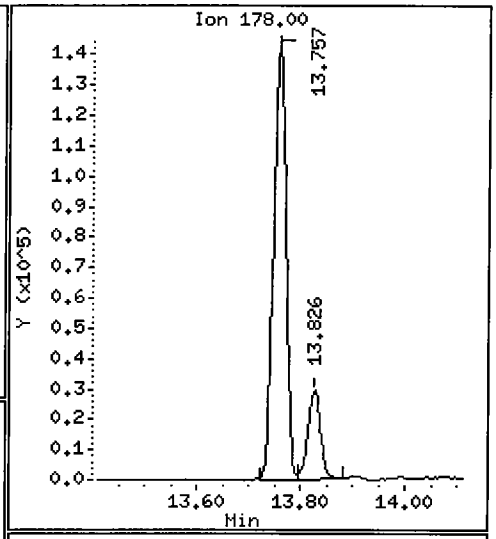
60 Phenanthrene Concentration: 216.2 ug/kg

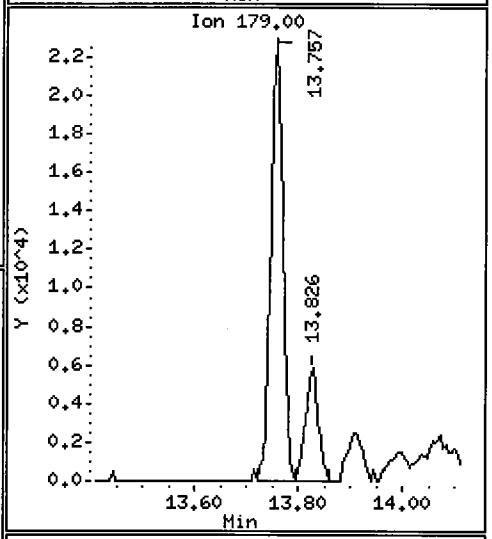


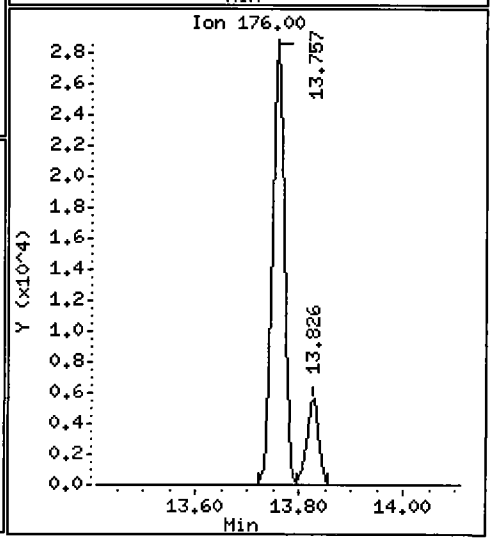












Data File: /chem1/nt6.i/20081008.b/ns52c.d

Date : 08-OCT-2008 20:37

Client ID: EB-SE03-A-081003

Instrument: nt6.i

Sample Info: NS52C

Volume Injected (uL): 1.0

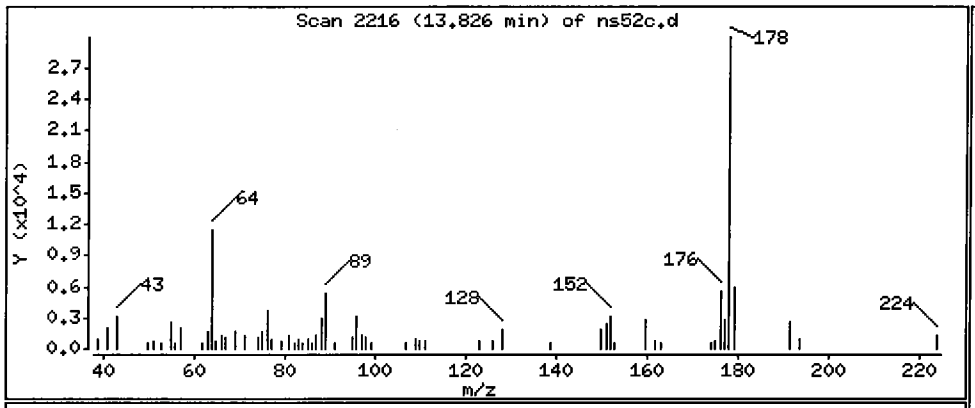
Operator: LJR/VTS

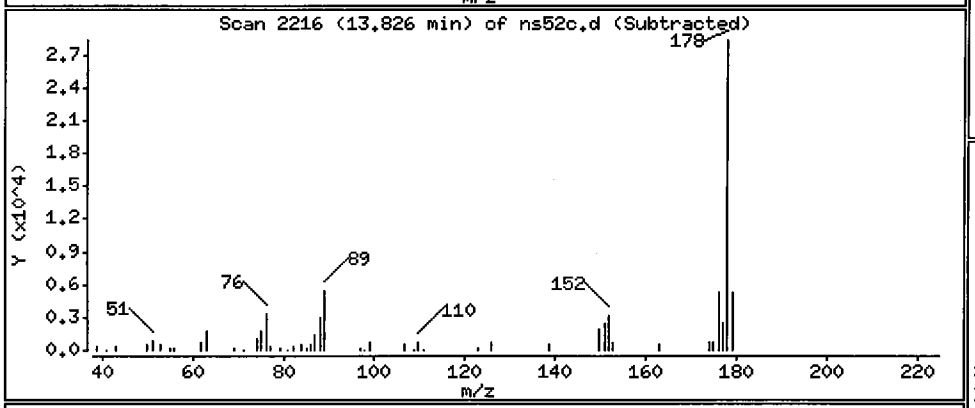
Column phase: ZB-5

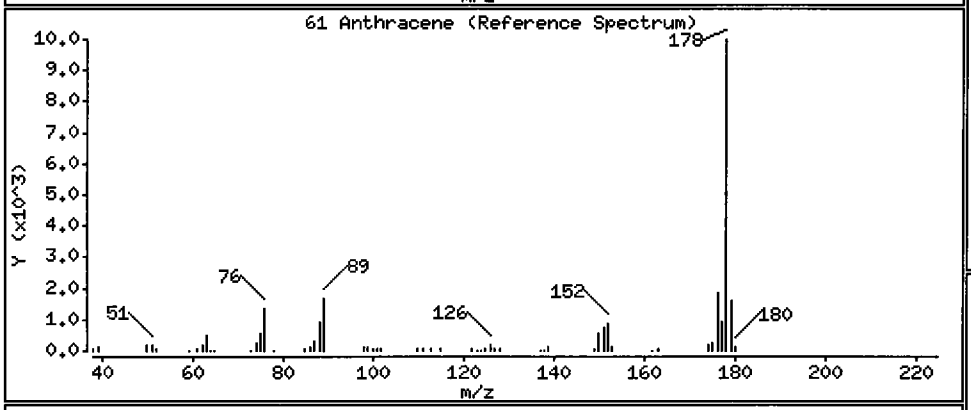
Column diameter: 0.32

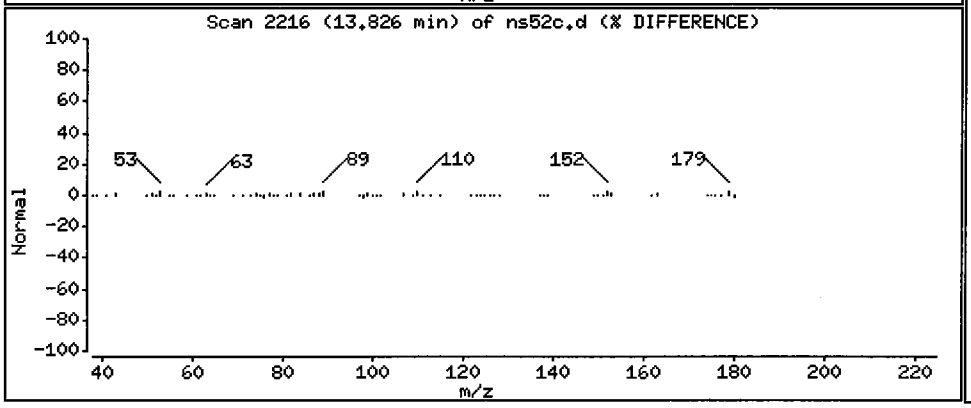
61 Anthracene

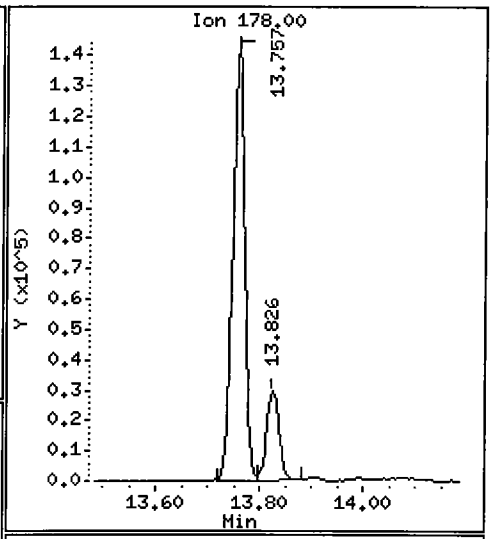
Concentration: 43.57 ug/kg

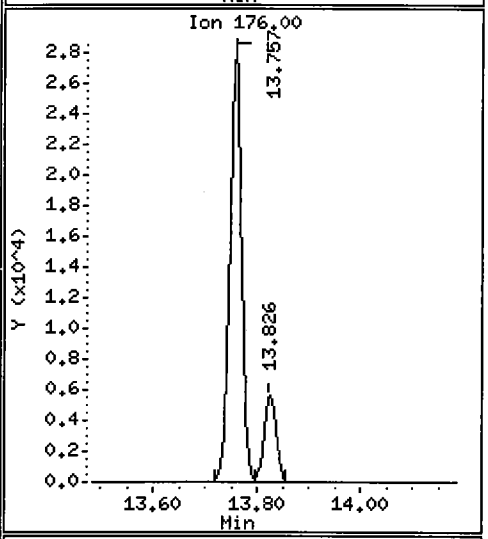


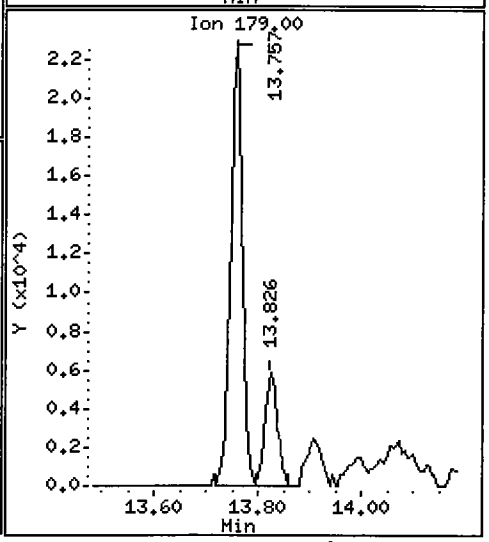












Data File: /chem1/nt6.i/20081008.b/ns52c.d

Date : 08-OCT-2008 20:37

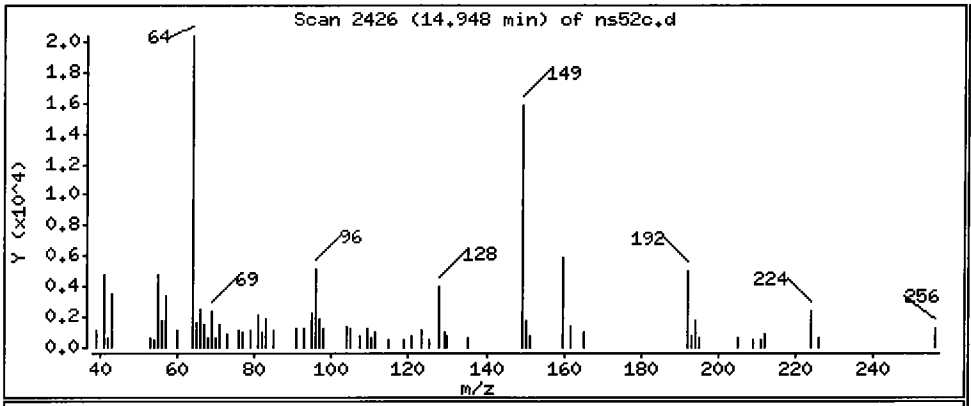
Client ID: EB-SE03-A-081003 Instrument: nt6.i

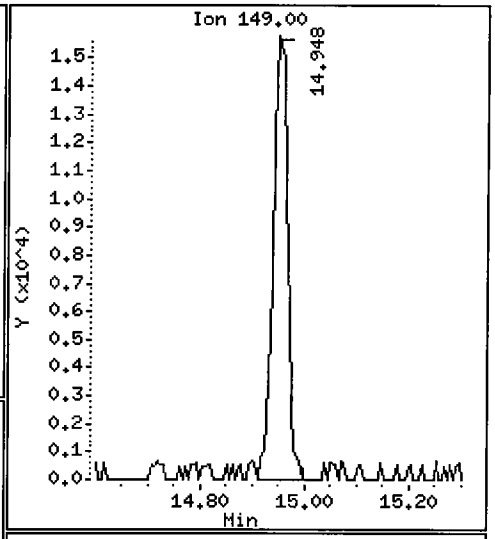
Sample Info: NS52C

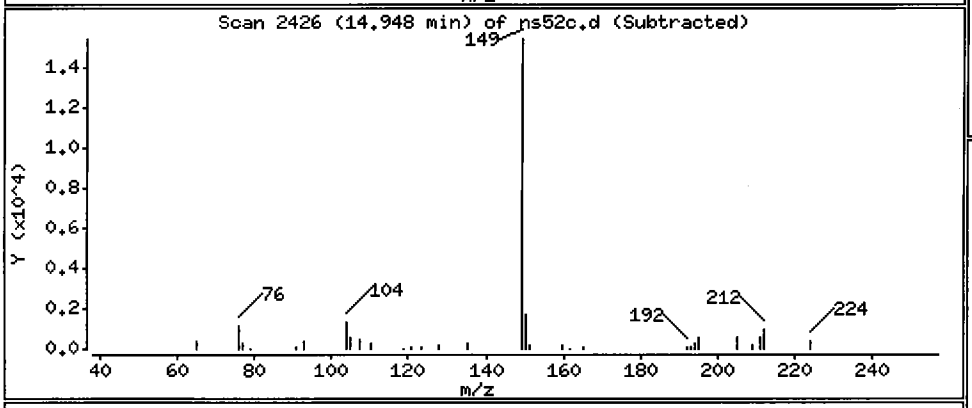
Volume Injected (uL): 1.0 Operator: LJR/VTS

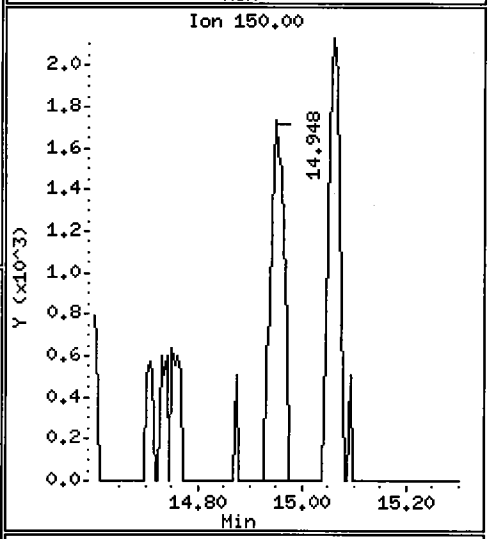
Column phase: ZB-5 Column diameter: 0.32

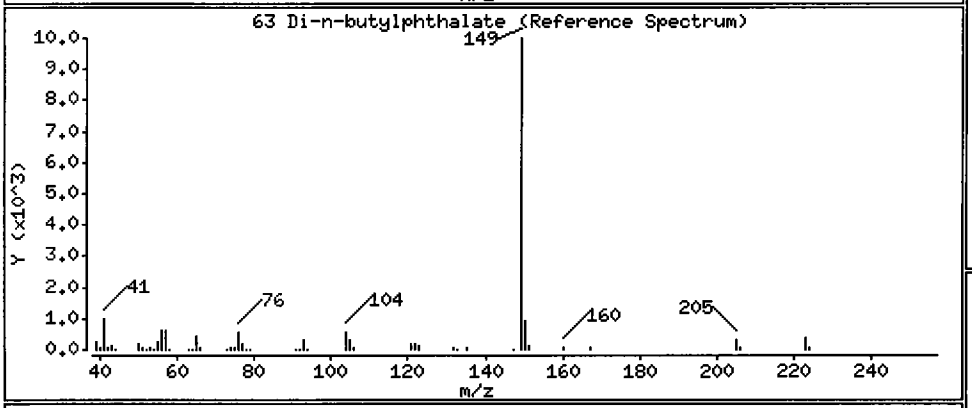
63 Di-n-butylphthalate Concentration: 23.94 ug/kg

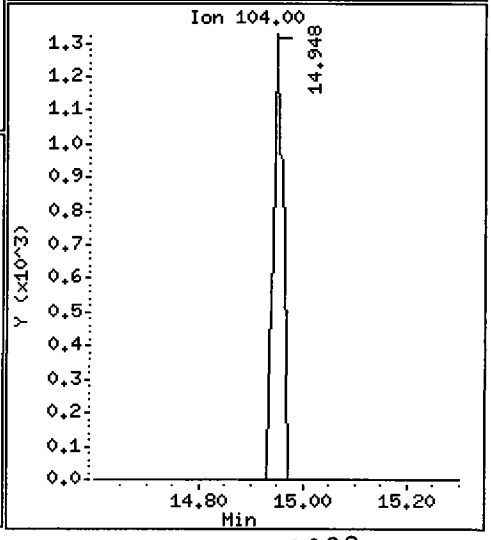


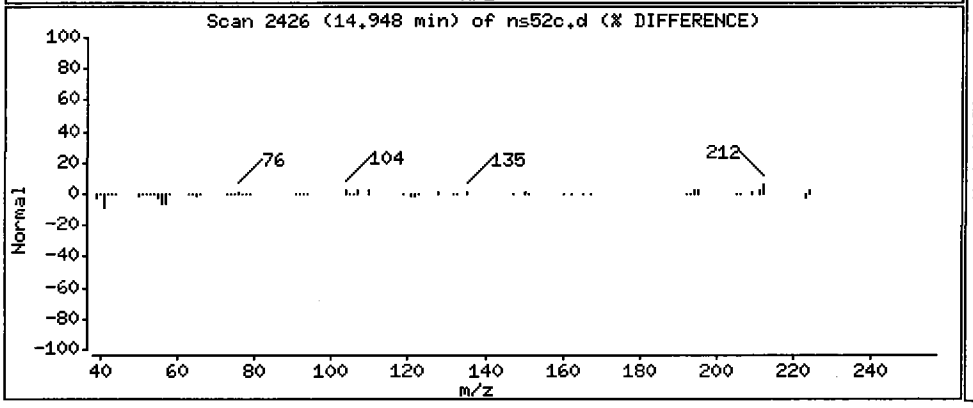












Data File: /chem1/nt6.i/20081008.b/ns52c.d

Date : 08-OCT-2008 20:37

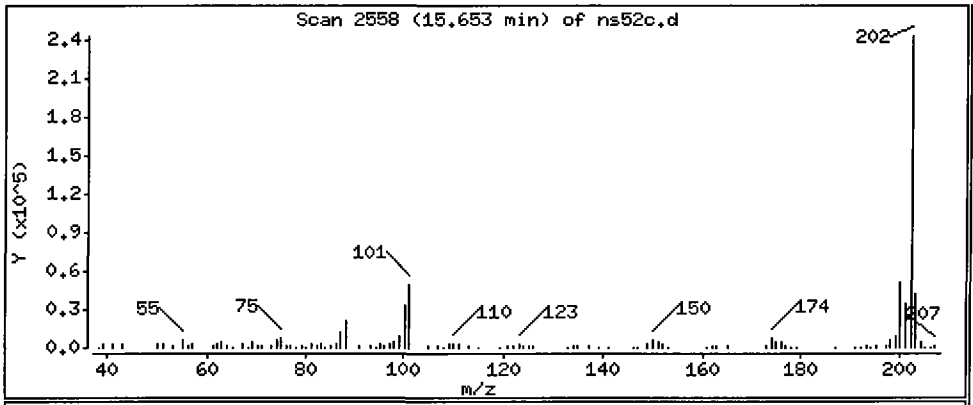
Client ID: EB-SE03-A-081003 Instrument: nt6.i

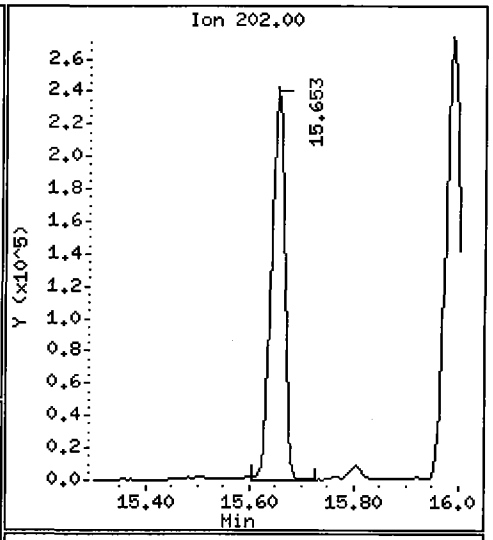
Sample Info: NS52C

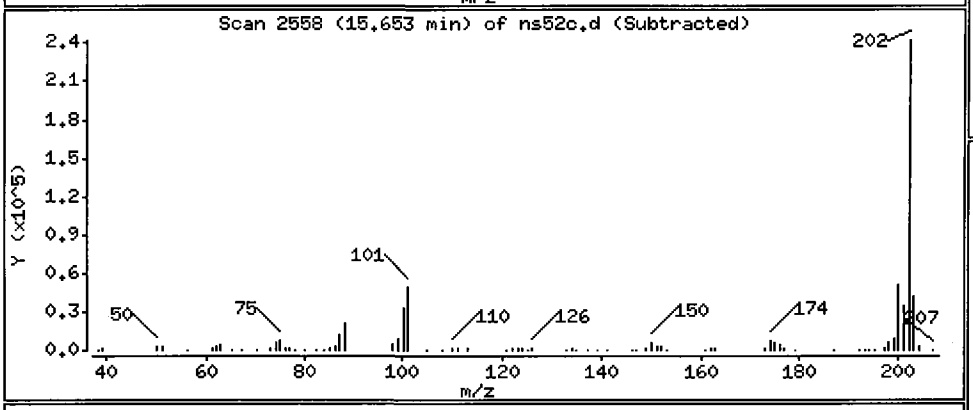
Volume Injected (uL): 1.0 Operator: LJR/VTS

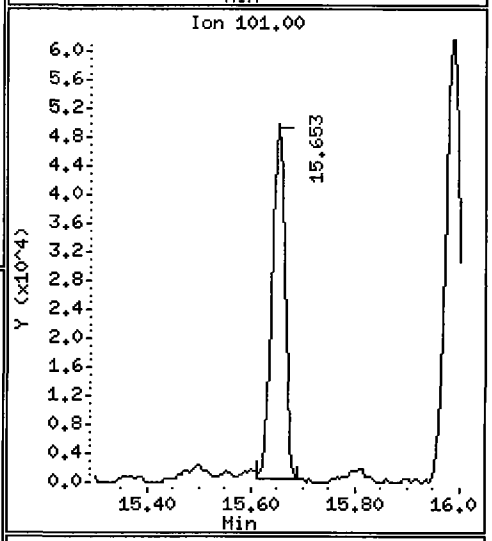
Column phase: ZB-5 Column diameter: 0.32

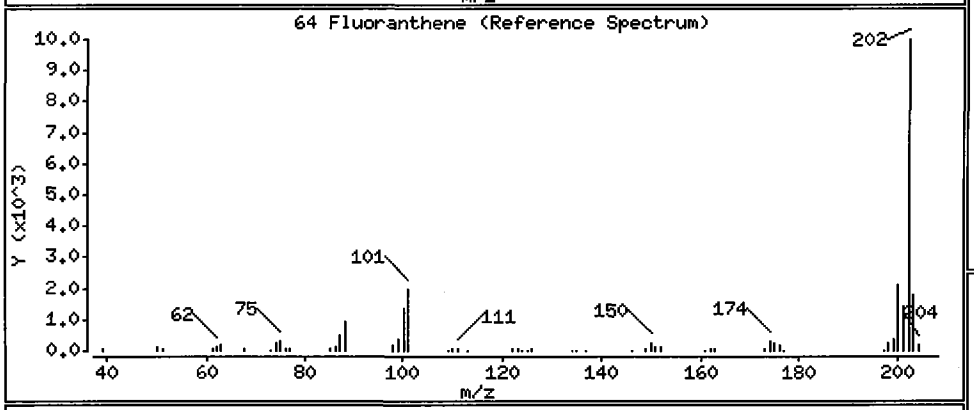
64 Fluoranthene Concentration: 422.2 ug/kg

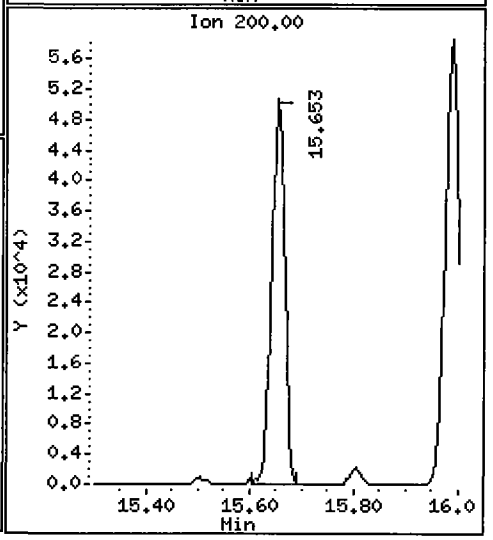


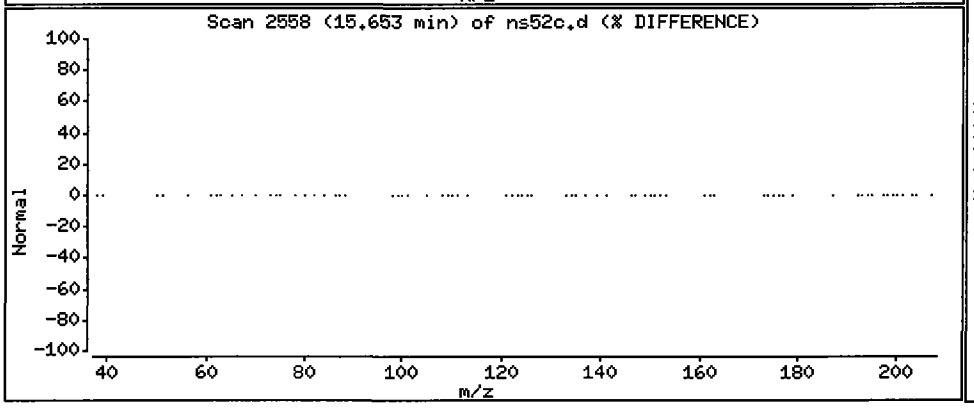












Data File: /chem1/nt6.i/20081008.b/ns52c.d

Date : 08-OCT-2008 20:37

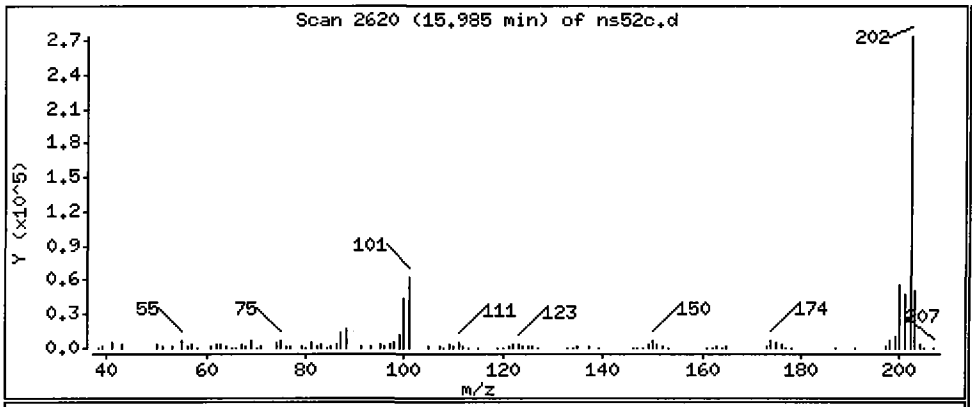
Client ID: EB-SE03-A-081003 Instrument: nt6.i

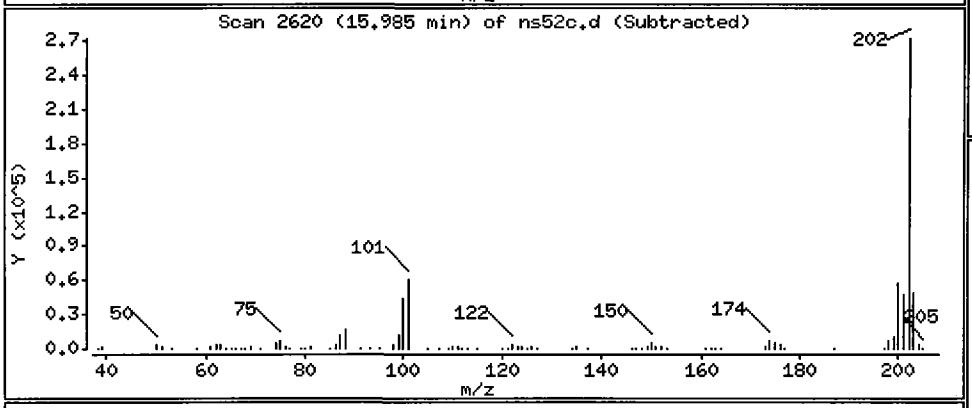
Sample Info: NS52C

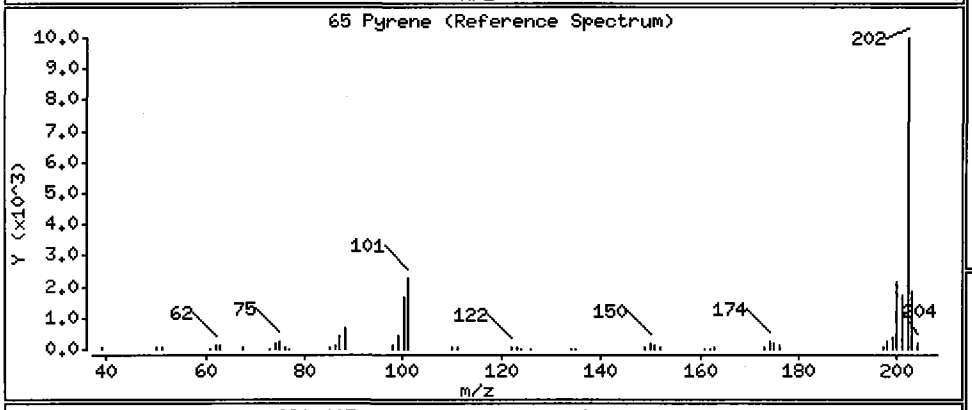
Volume Injected (uL): 1.0 Operator: LJR/VTS

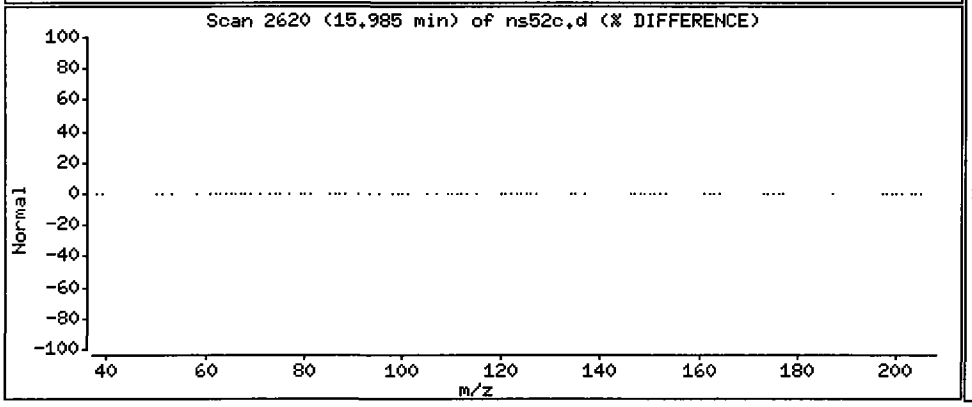
Column phase: ZB-5 Column diameter: 0.32

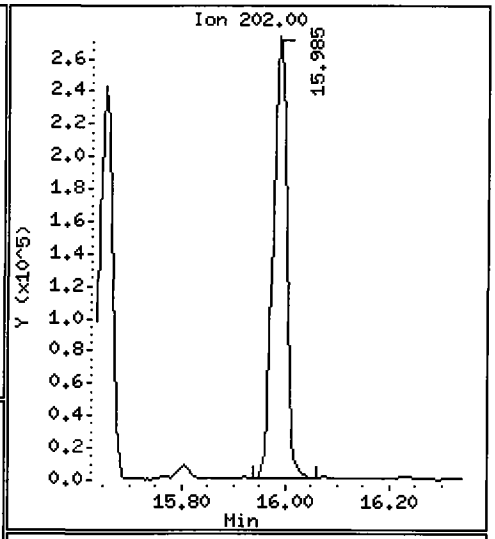
65 Pyrene Concentration: 418.7 ug/kg

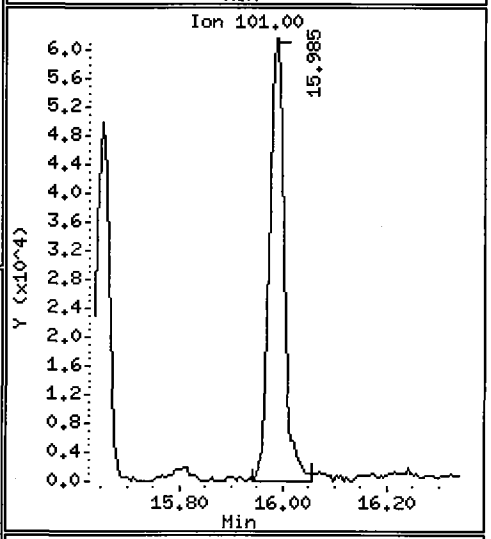


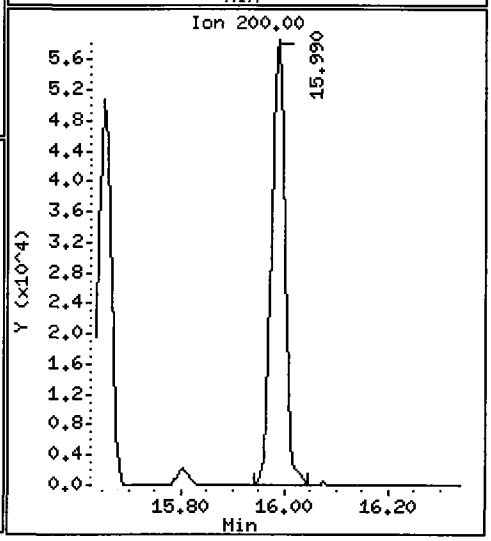












Data File: /chem1/nt6.i/20081008.b/ns52c.d

Date : 08-OCT-2008 20:37

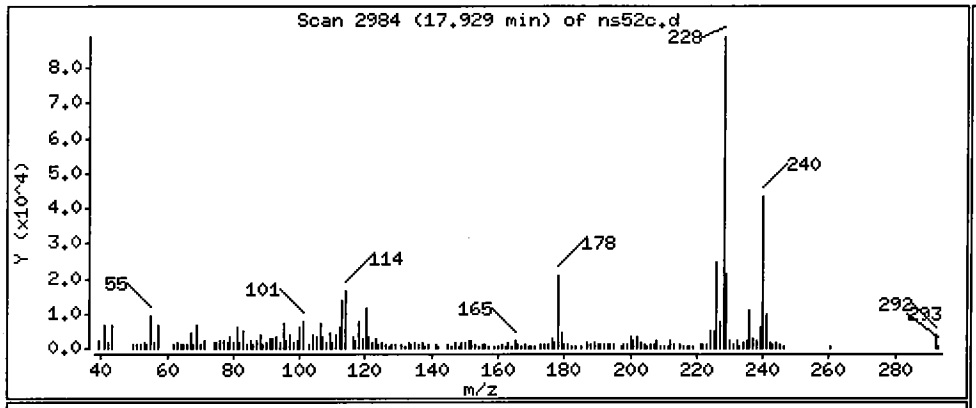
Client ID: EB-SE03-A-081003 Instrument: nt6.i

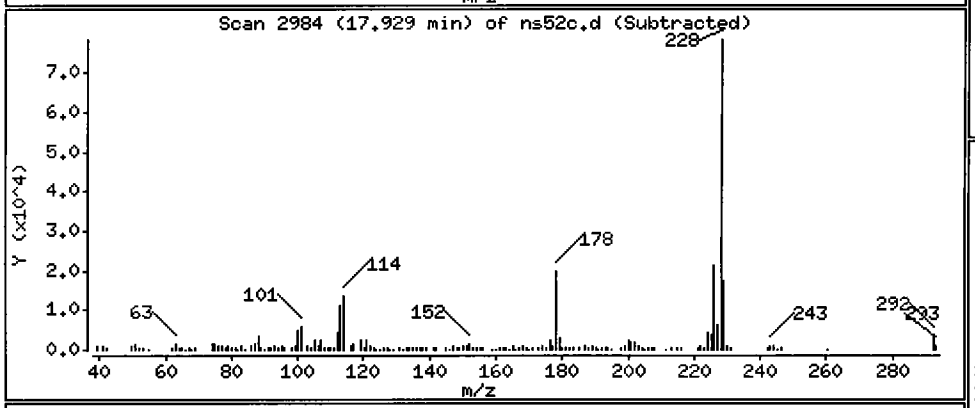
Sample Info: NS52C

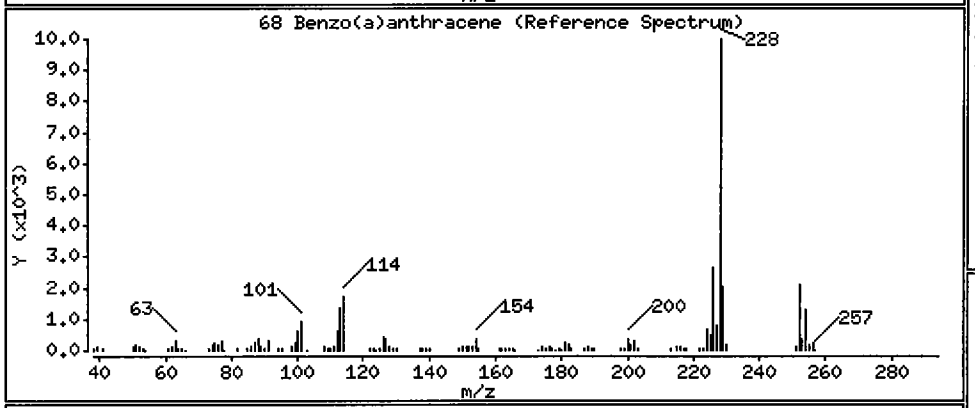
Volume Injected (uL): 1.0 Operator: LJR/VTS

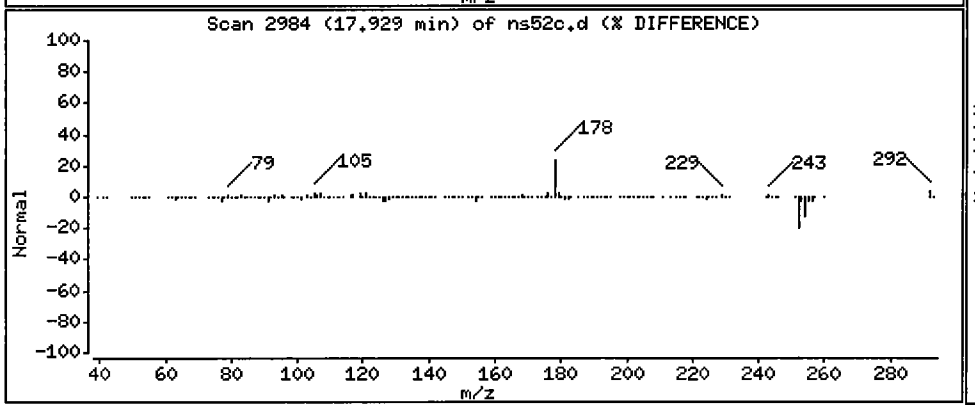
Column phase: ZB-5 Column diameter: 0.32

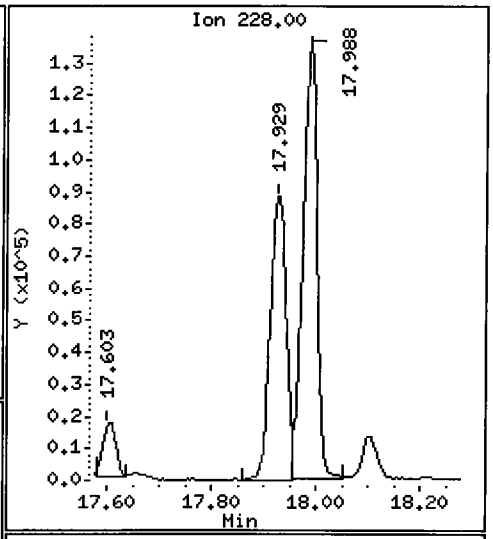
68 Benzo(a)anthracene Concentration: 173.5 ug/kg

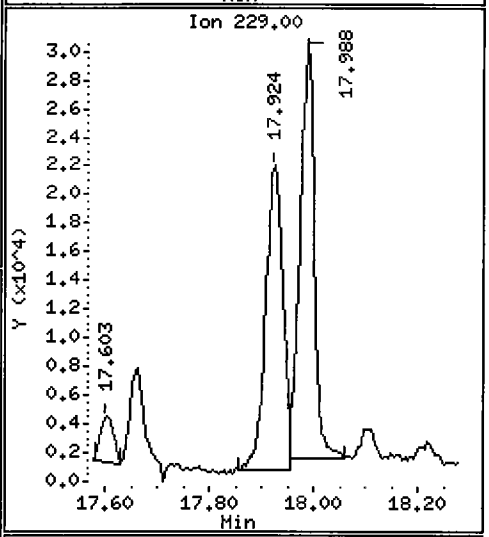


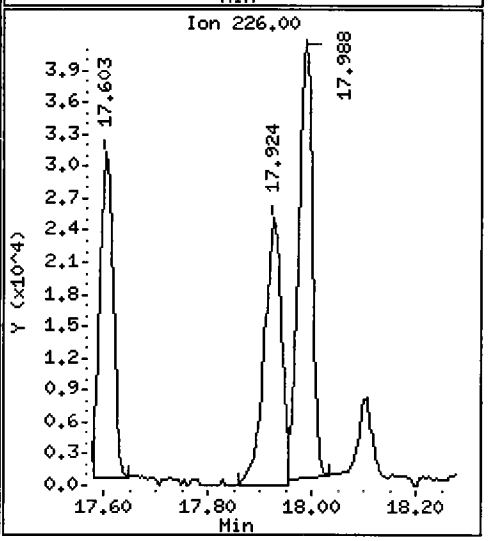












Data File: /chem1/nt6.i/20081008.b/ns52c.d

Date : 08-OCT-2008 20:37

Client ID: EB-SE03-A-081003

Instrument: nt6.i

Sample Info: NS52C

Volume Injected (uL): 1.0

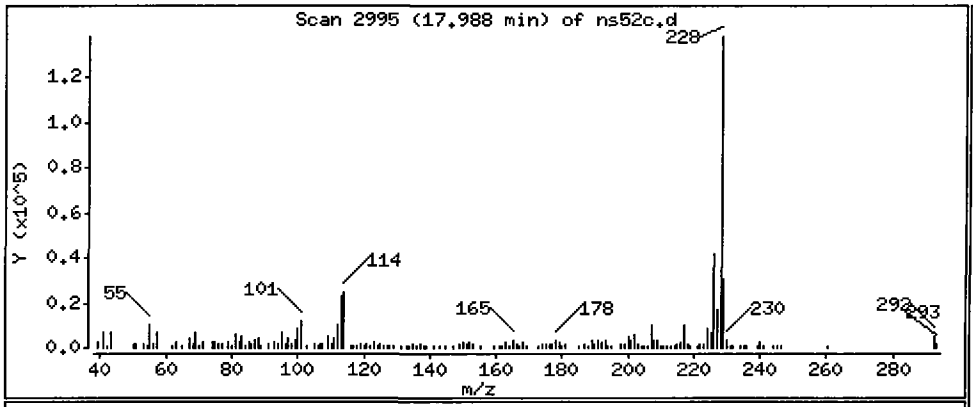
Operator: LJR/VTS

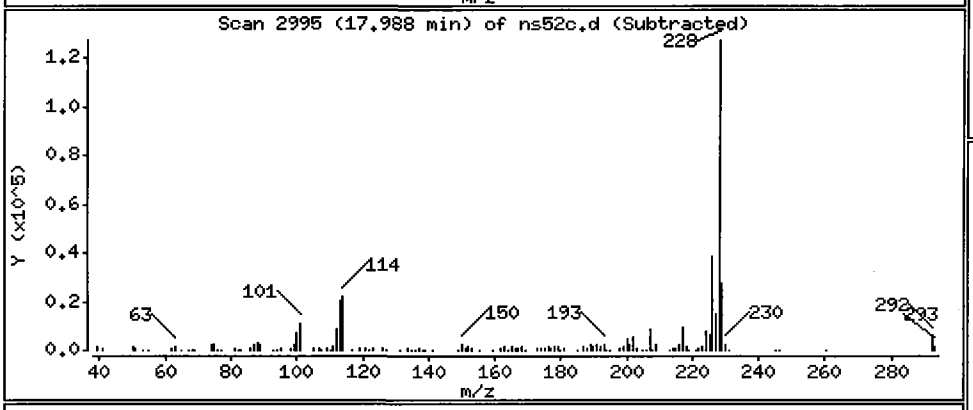
Column phase: ZB-5

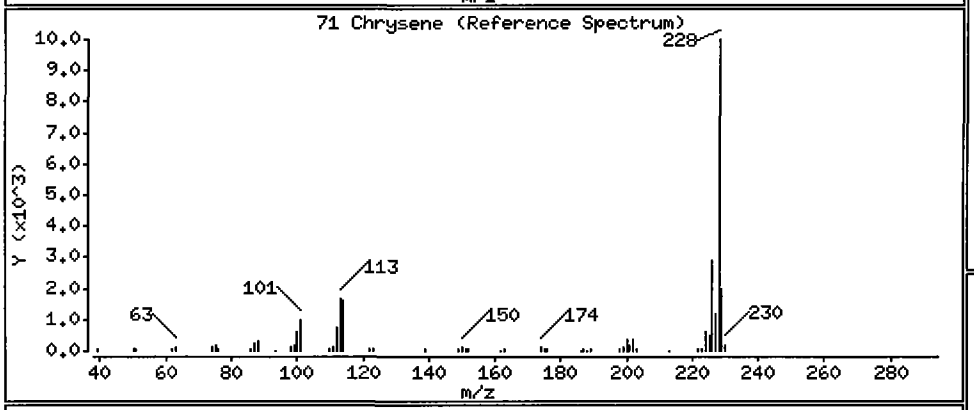
Column diameter: 0.32

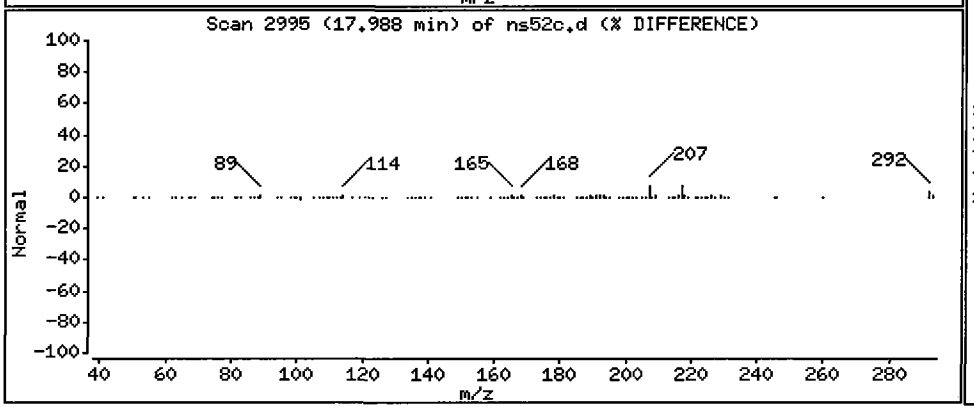
71 Chrysene

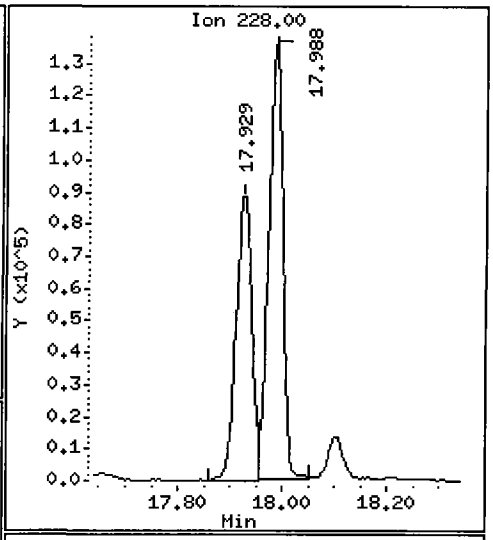
Concentration: 228.3 ug/kg

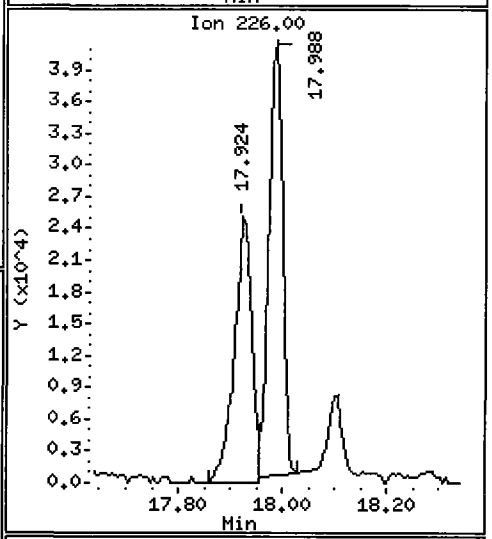


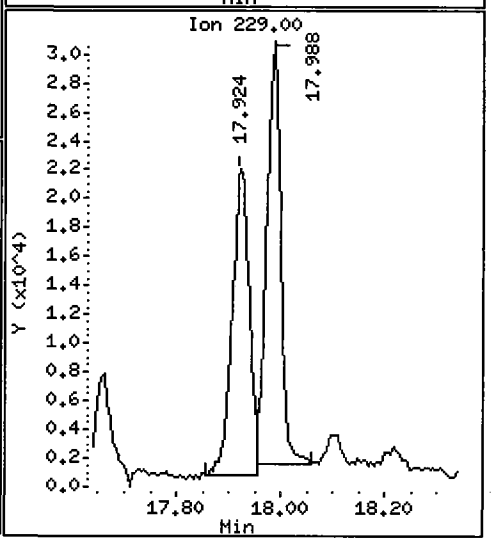












Data File: /chem1/nt6.i/20081008.b/ns52c.d

Date : 08-OCT-2008 20:37

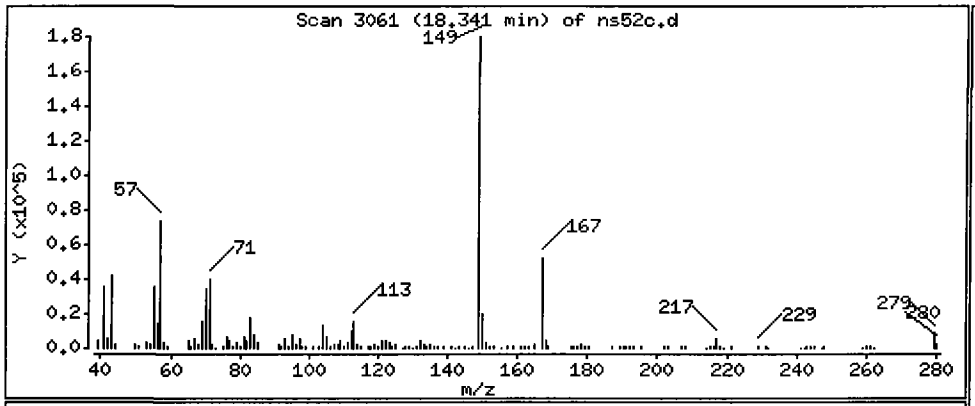
Client ID: EB-SE03-A-081003 Instrument: nt6.i

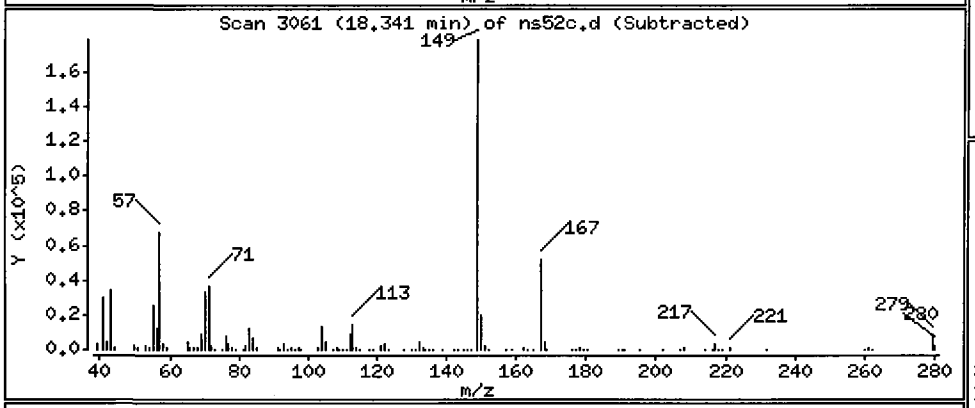
Sample Info: NS52C

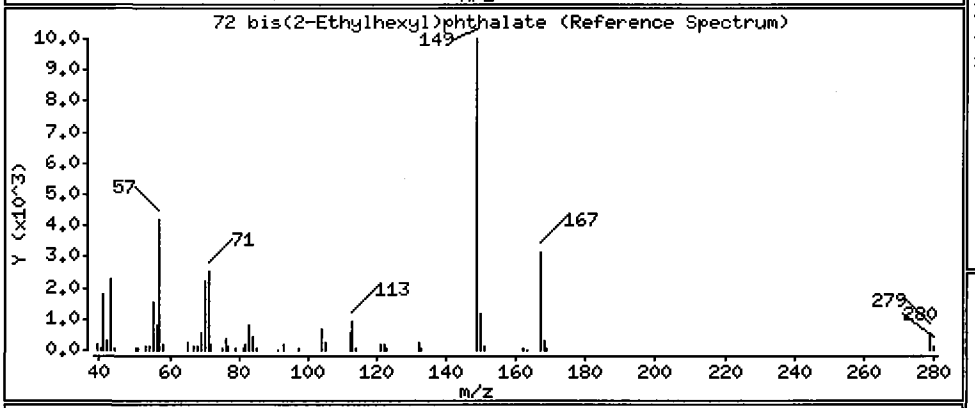
Volume Injected (uL): 1.0 Operator: LJR/VTS

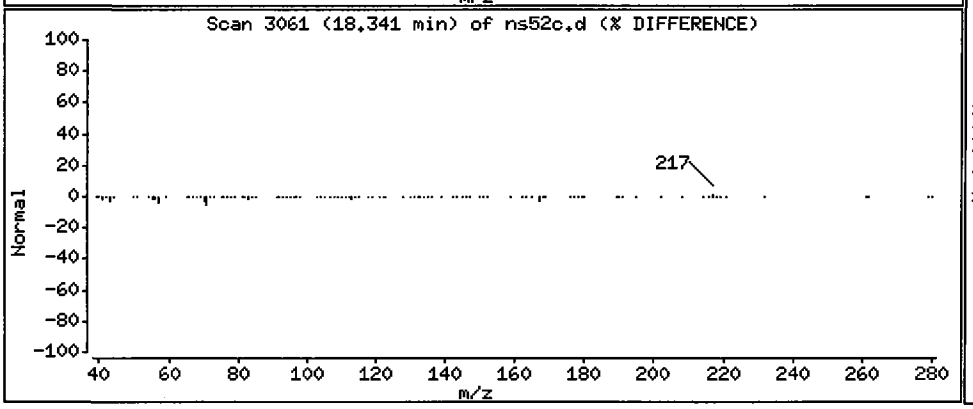
Column phase: ZB-5 Column diameter: 0.32

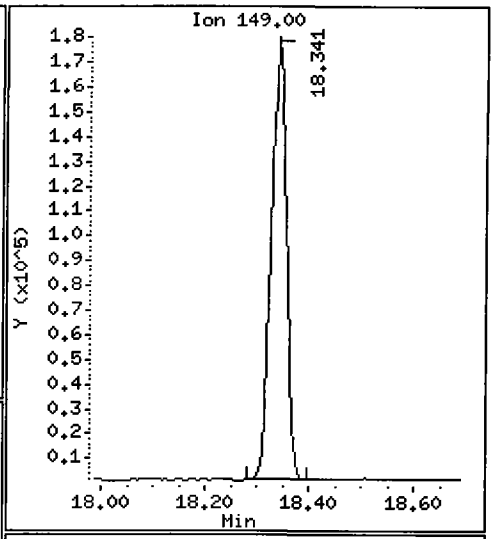
72 bis(2-Ethylhexyl)phthalate Concentration: 476.2 ug/kg

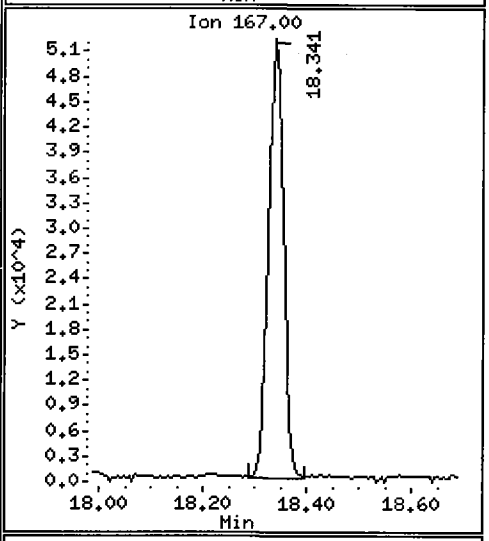


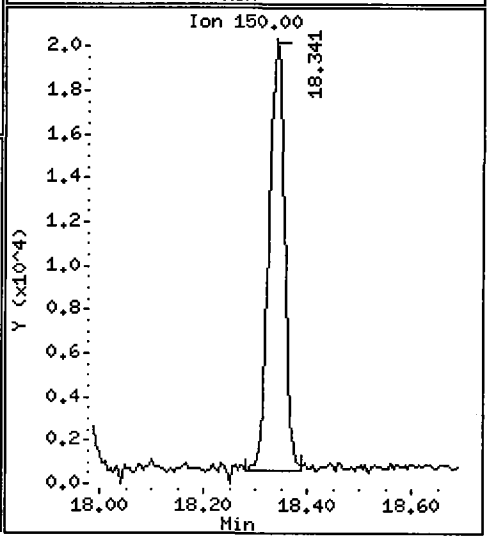












Data File: /chem1/nt6.i/20081008.b/ns52c.d

Date : 08-OCT-2008 20:37

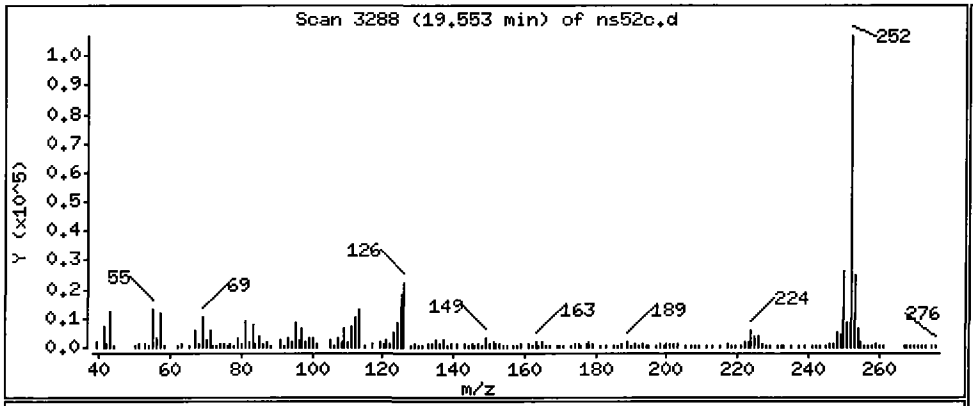
Client ID: EB-SE03-A-081003 Instrument: nt6.i

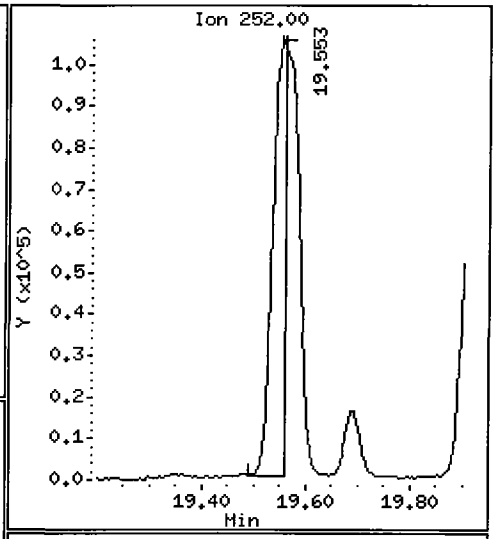
Sample Info: NS52C

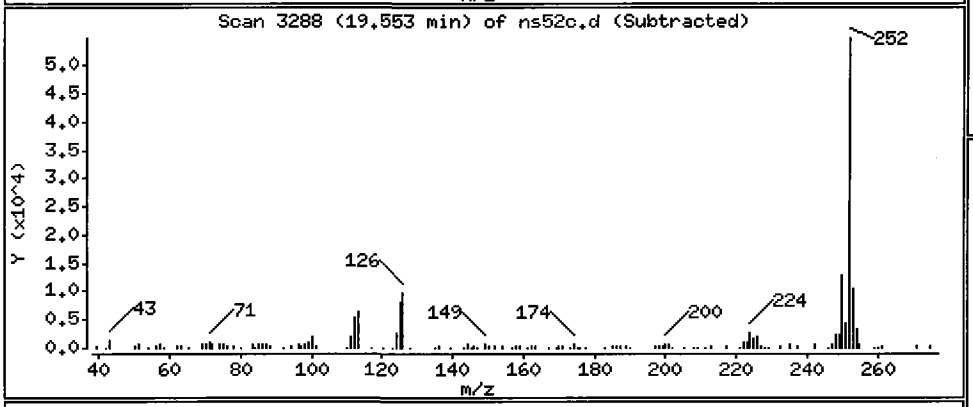
Volume Injected (uL): 1.0 Operator: LJR/VTS

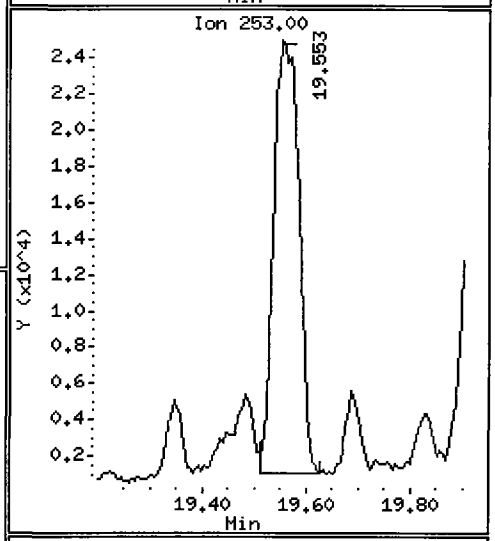
Column phase: ZB-5 Column diameter: 0.32

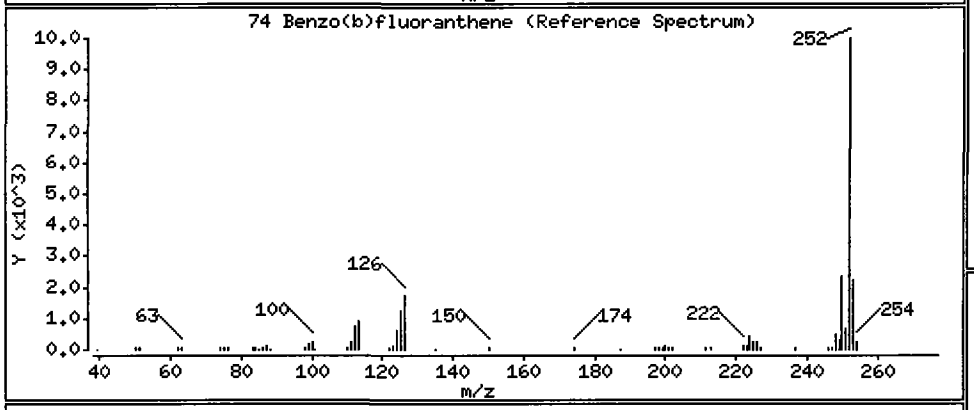
74 Benzo(b)fluoranthene Concentration: 179.6 ug/kg

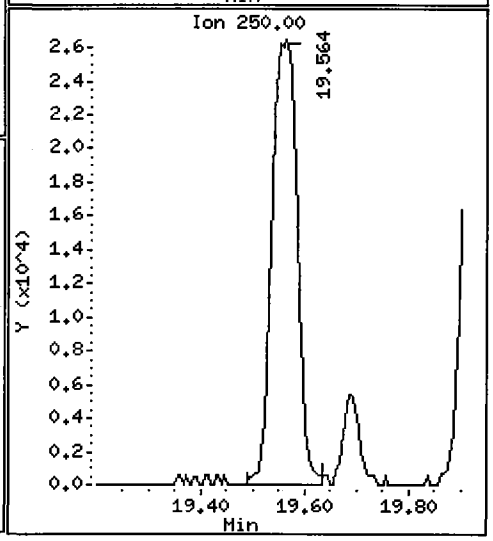


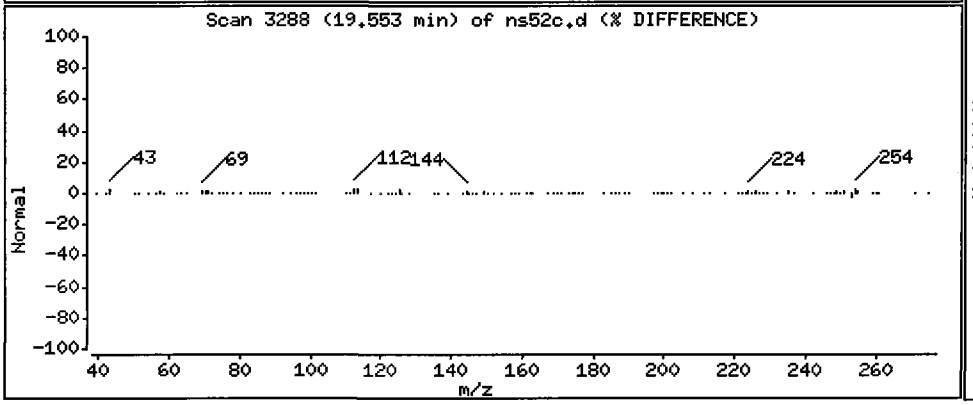












Data File: /chem1/nt6.i/20081008.b/ns52c.d

Date : 08-OCT-2008 20:37

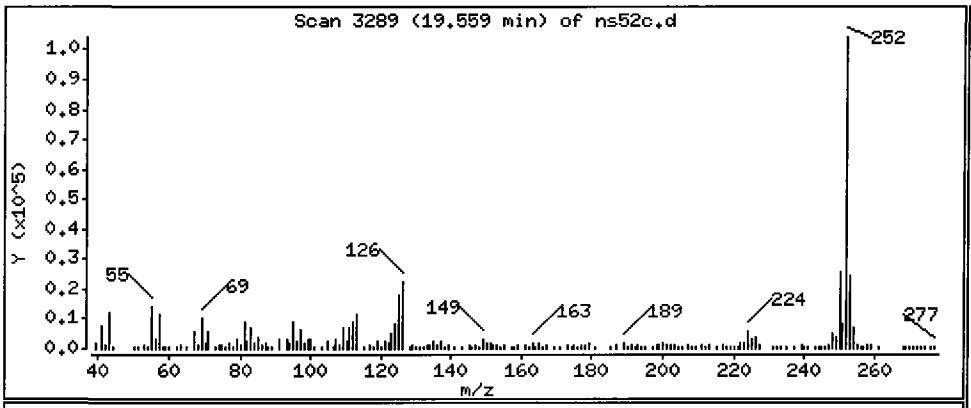
Client ID: EB-SE03-A-081003 Instrument: nt6.i

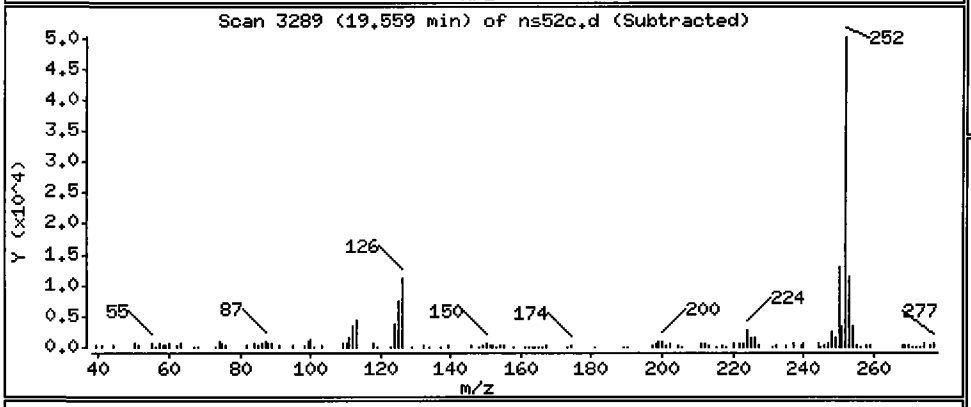
Sample Info: NS52C

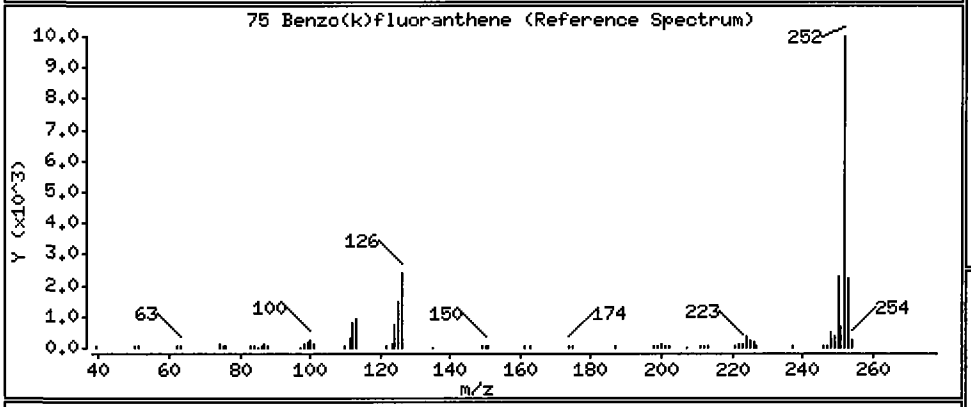
Volume Injected (uL): 1.0 Operator: LJR/VTS

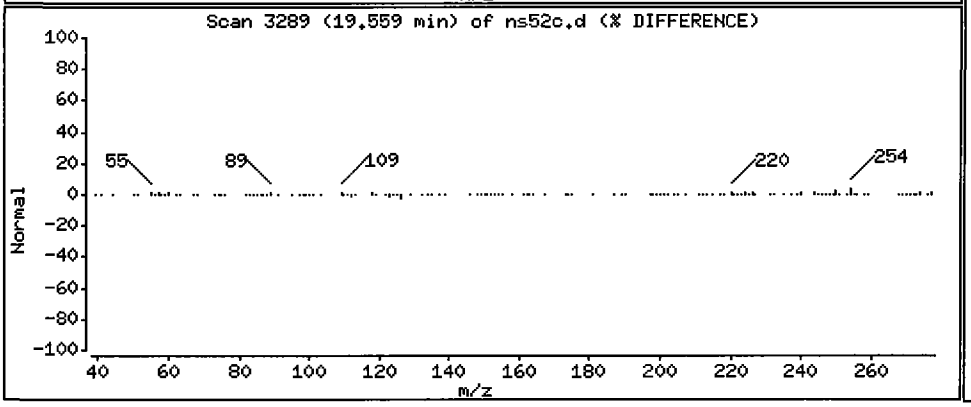
Column phase: ZB-5 Column diameter: 0.32

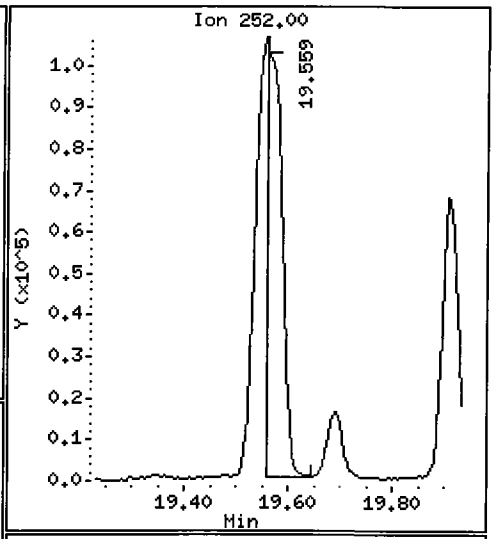
75 Benzo(k)fluoranthene Concentration: 186.1 ug/kg

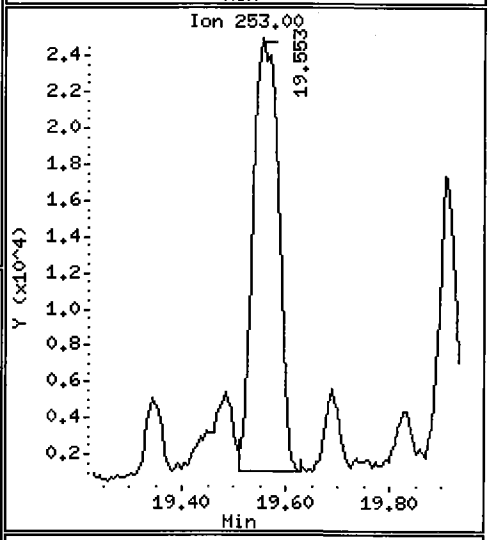


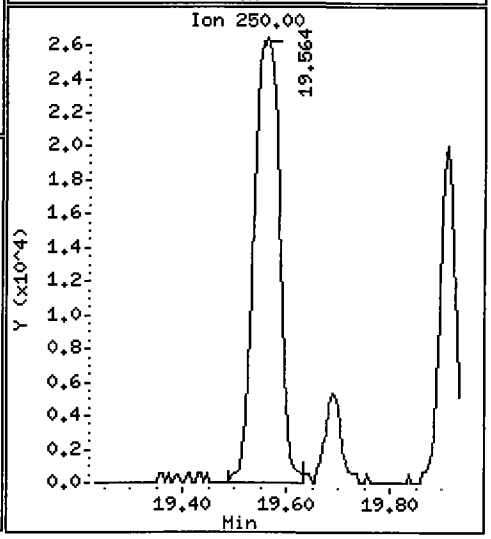












Data File: /chem1/nt6.i/20081008.b/ns52c.d

Date : 08-OCT-2008 20:37

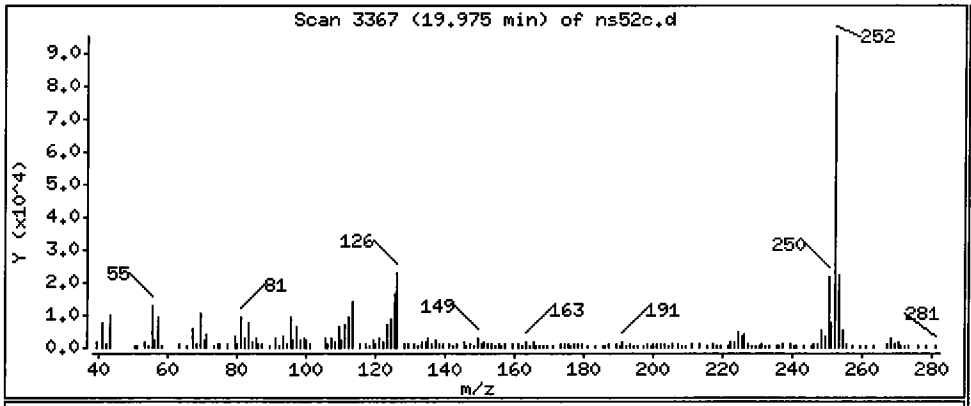
Client ID: EB-SE03-A-081003 Instrument: nt6.i

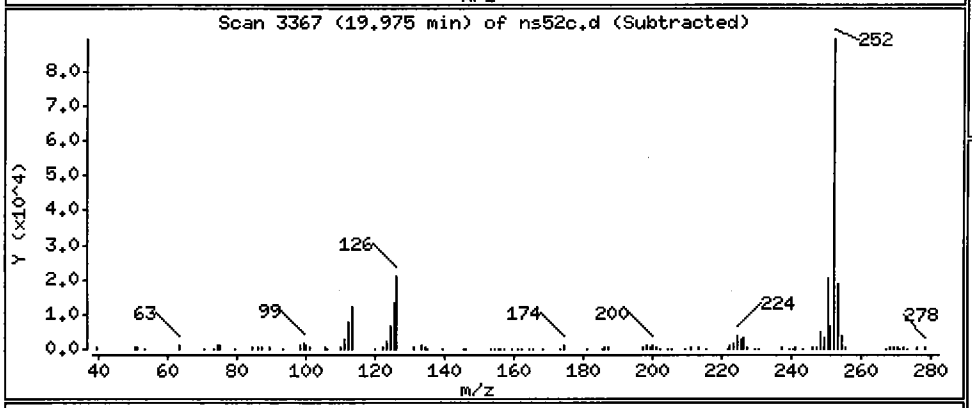
Sample Info: NS52C

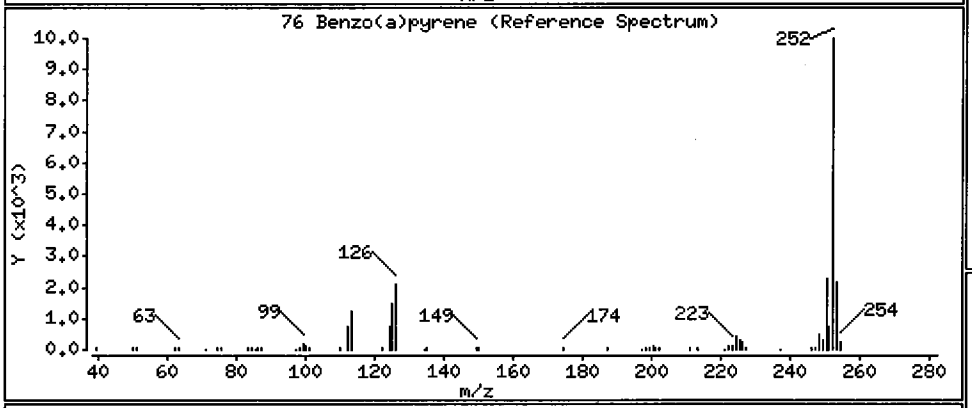
Volume Injected (uL): 1.0 Operator: LJR/VTS

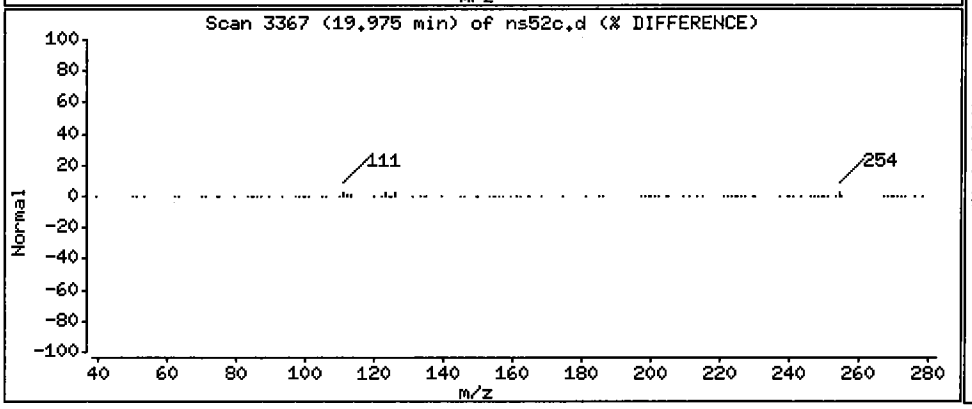
Column phase: ZB-5 Column diameter: 0.32

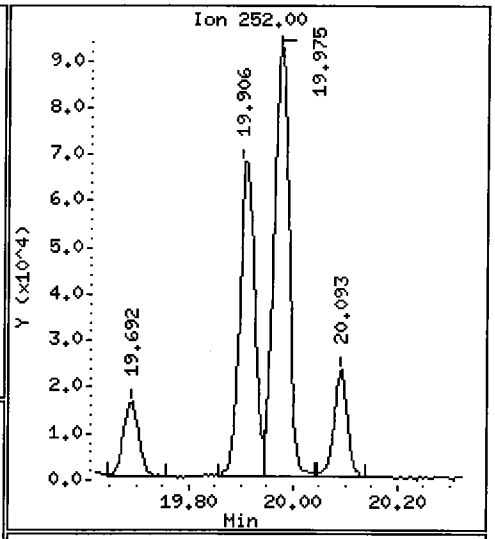
76 Benzo(a)pyrene Concentration: 188.6 ug/kg

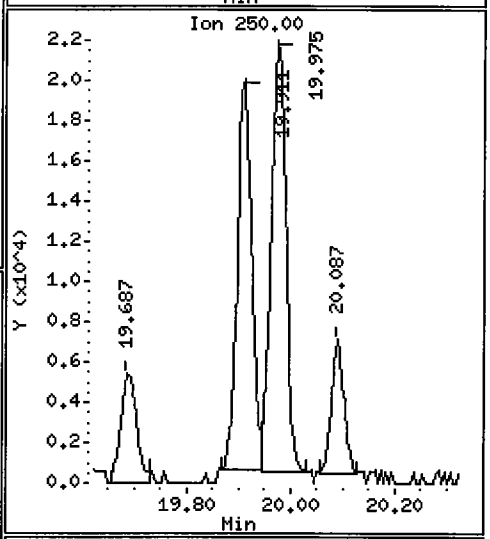


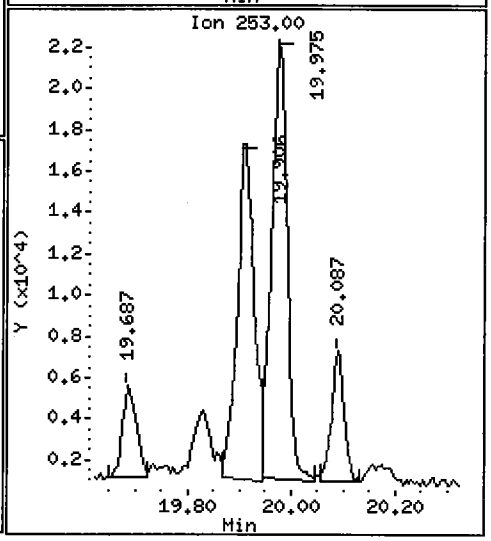












Data File: /chem1/nt6.i/20081008.b/ns52c.d

Date : 08-OCT-2008 20:37

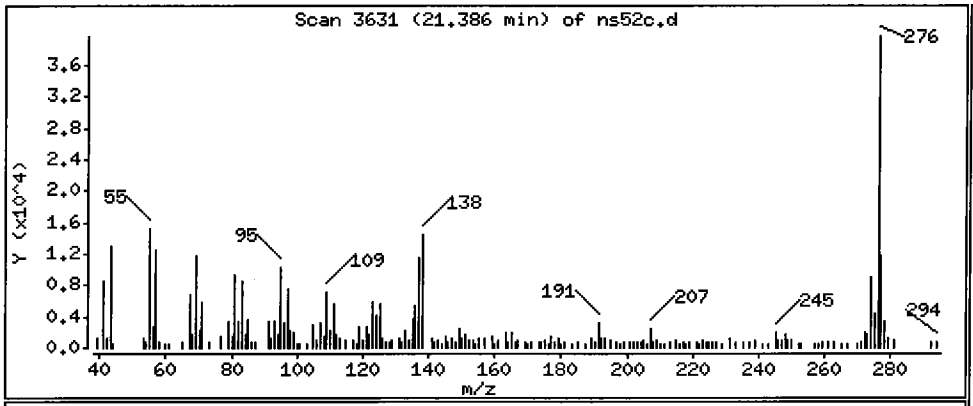
Client ID: EB-SE03-A-081003 Instrument: nt6.i

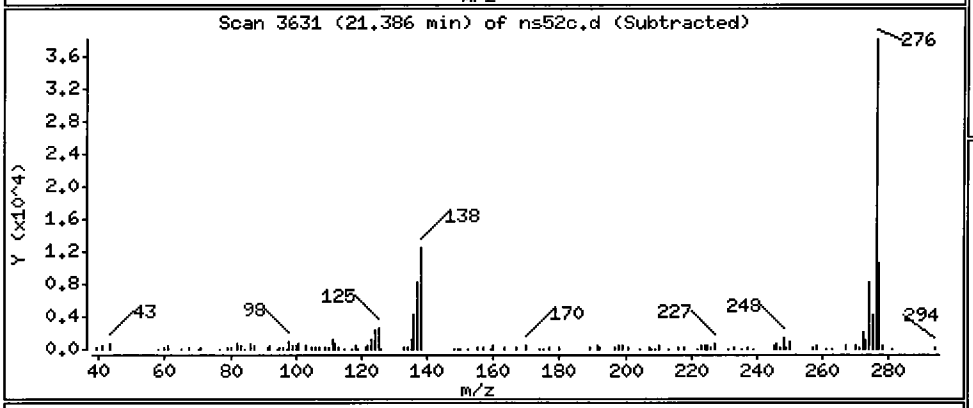
Sample Info: NS52C

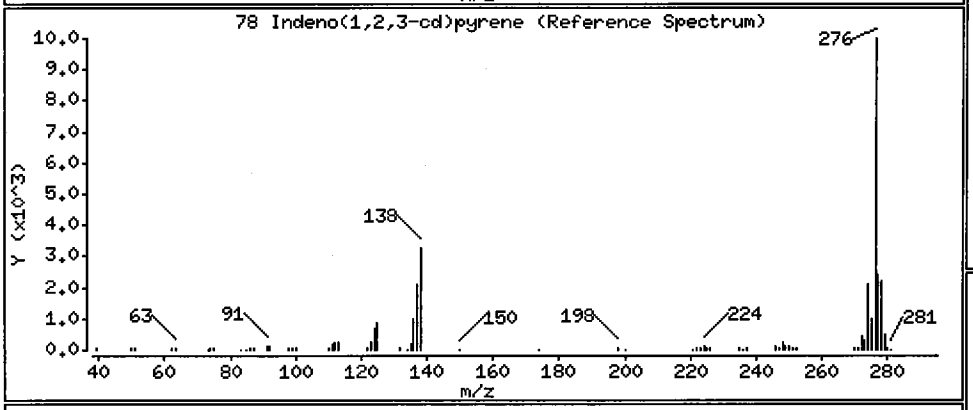
Volume Injected (uL): 1.0 Operator: LJR/VTS

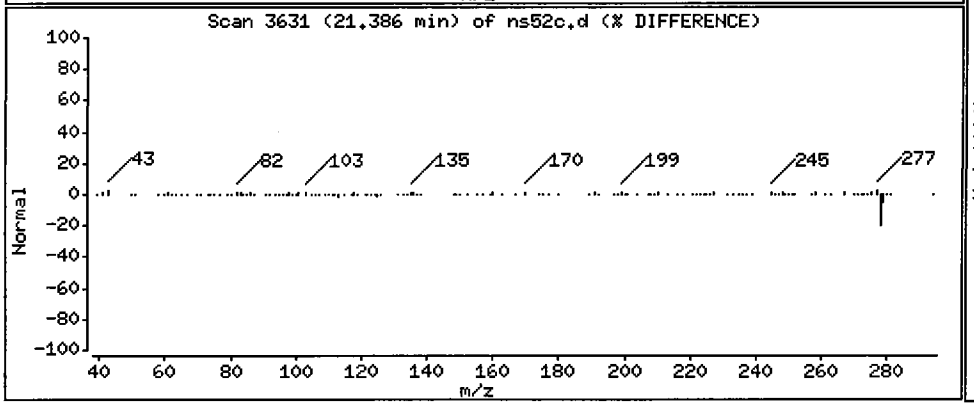
Column phase: ZB-5 Column diameter: 0.32

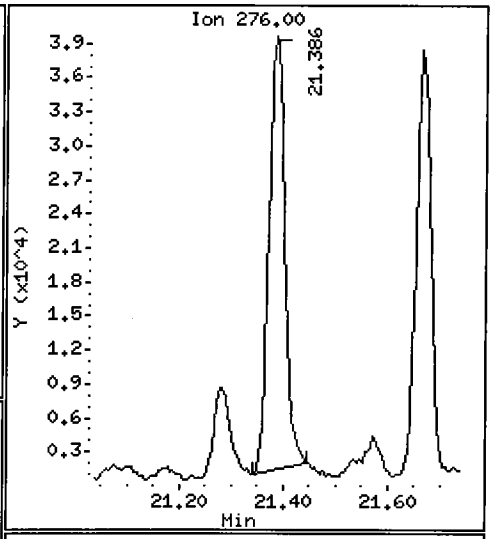
78 Indeno(1,2,3-cd)pyrene Concentration: 66.01 ug/kg

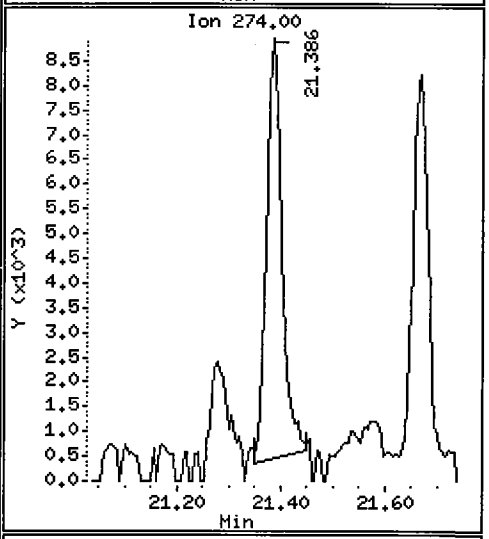


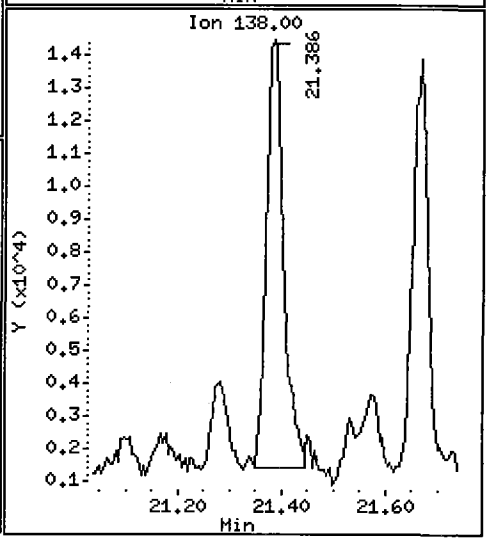












Data File: /chem1/nt6.i/20081008.b/ns52c.d

Date : 08-OCT-2008 20:37

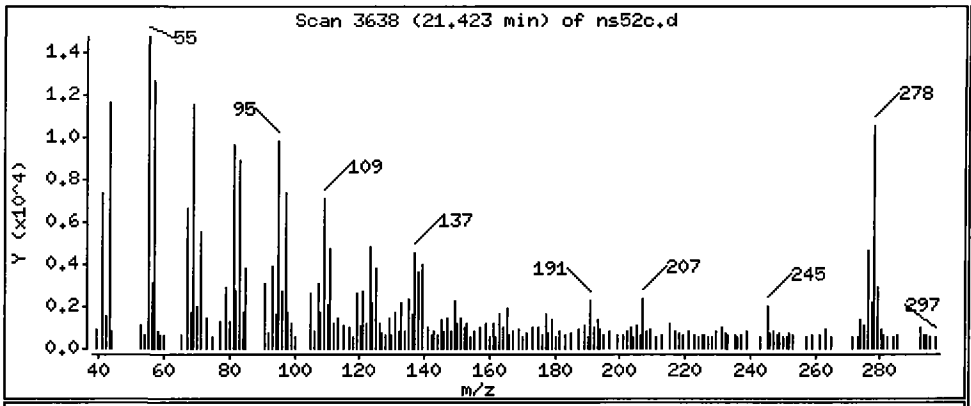
Client ID: EB-SE03-A-081003 Instrument: nt6.i

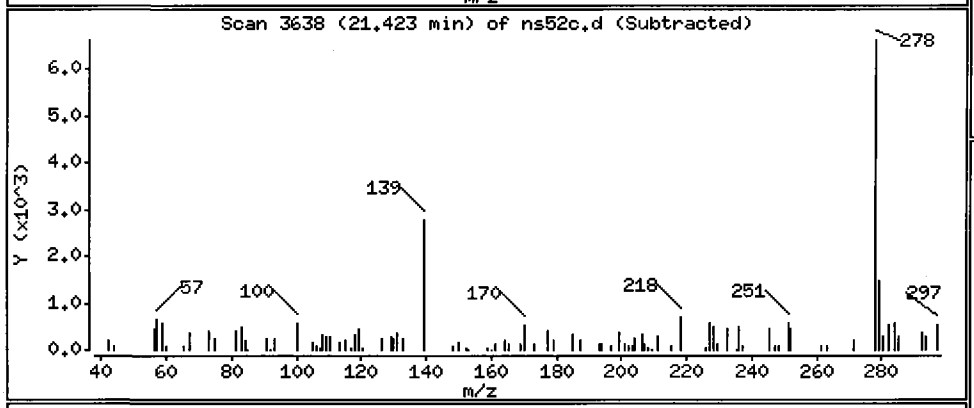
Sample Info: NS52C

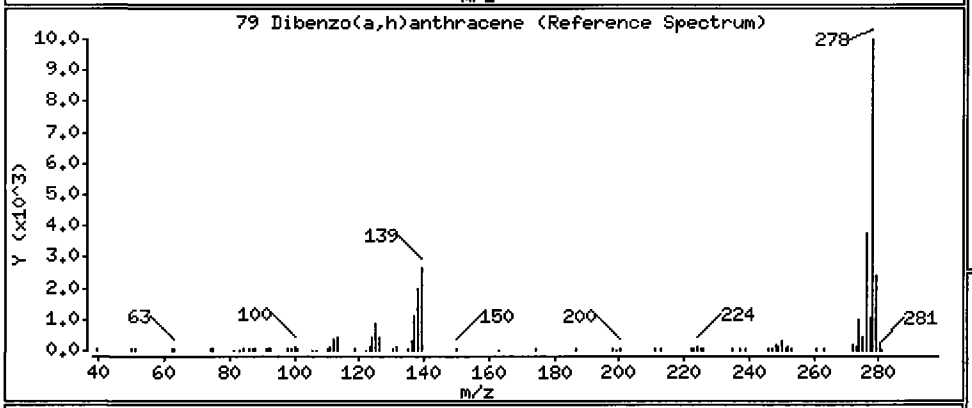
Volume Injected (uL): 1.0 Operator: LJR/VTS

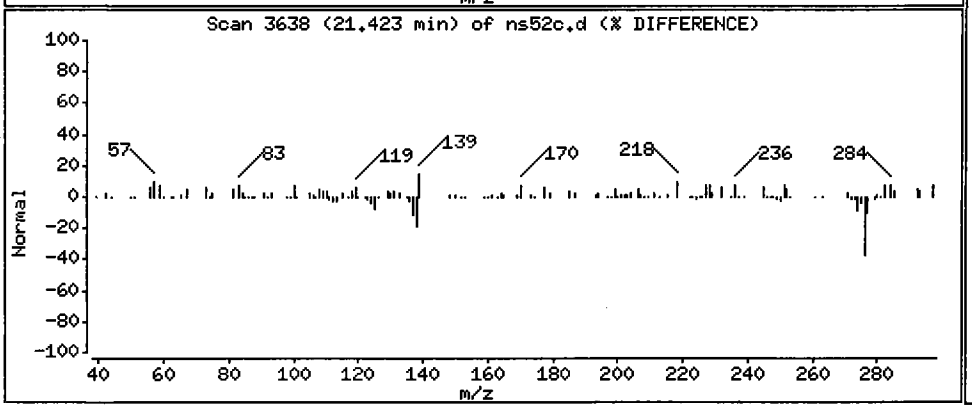
Column phase: ZB-5 Column diameter: 0.32

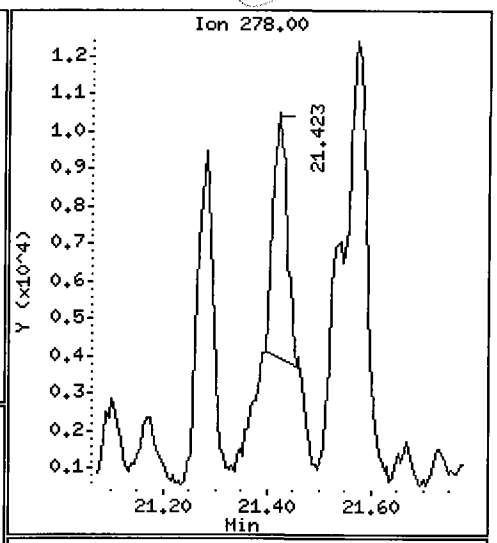
79 Dibenzo(a,h)anthracene Concentration: 11.02 ug/kg

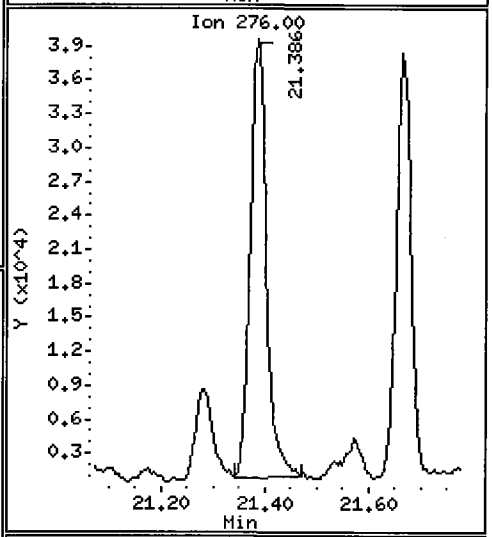


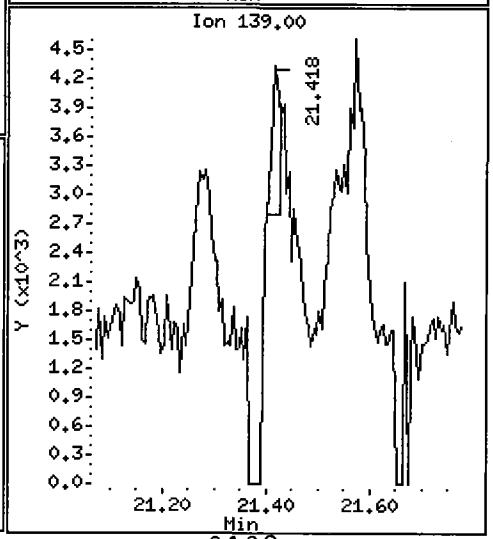












Data File: /chem1/nt6.i/20081008.b/ns52c.d

Date : 08-OCT-2008 20:37

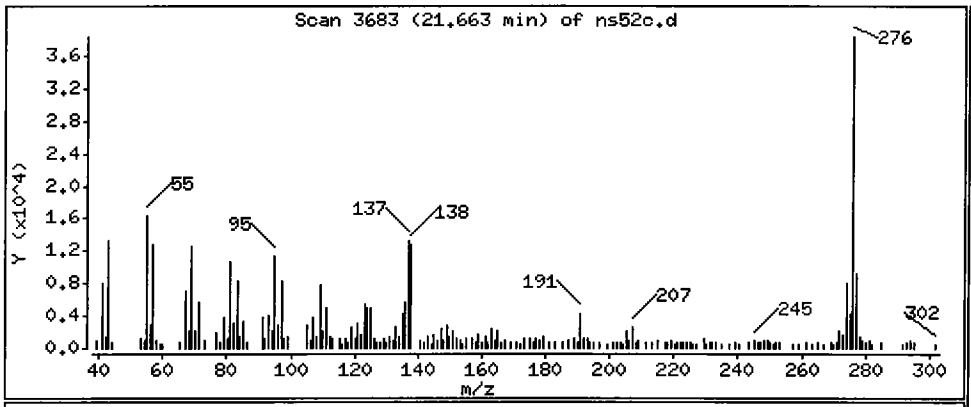
Client ID: EB-SE03-A-081003 Instrument: nt6.i

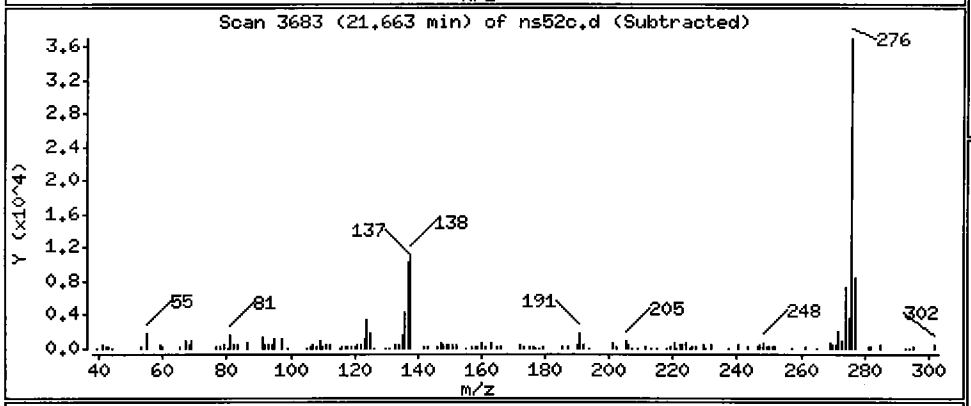
Sample Info: NS52C

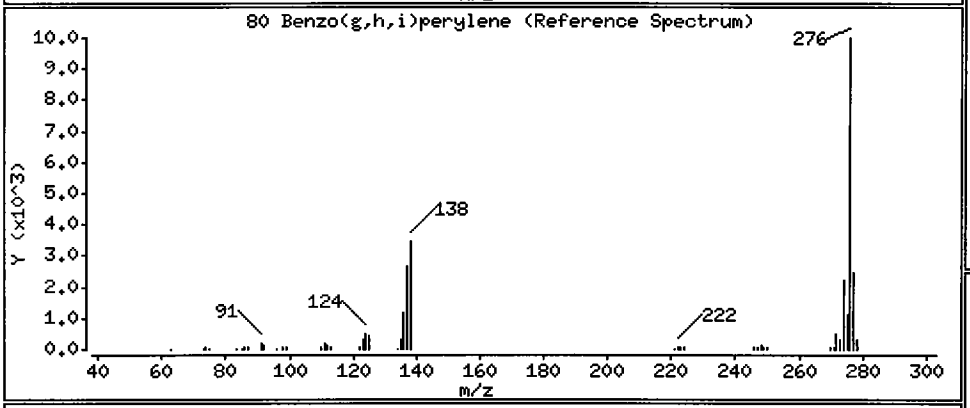
Volume Injected (uL): 1.0 Operator: LJR/VTS

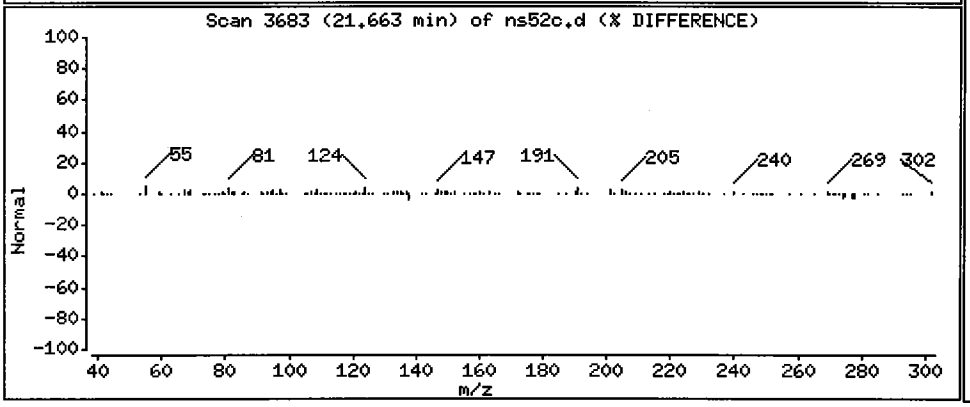
Column phase: ZB-5 Column diameter: 0.32

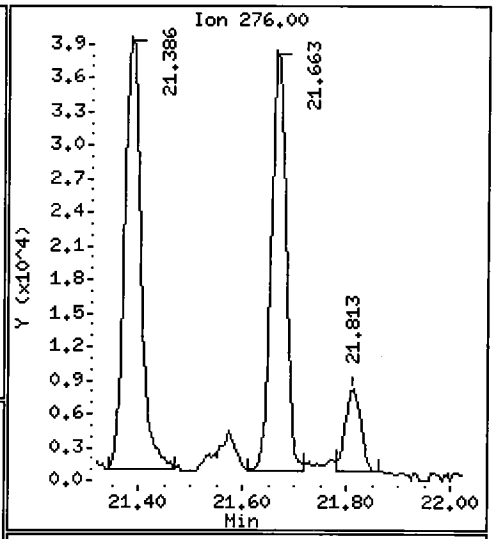
80 Benzo(g,h,i)perylene Concentration: 66.70 ug/kg

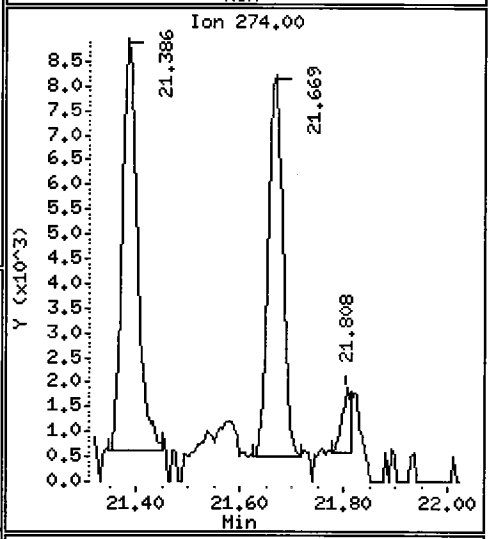


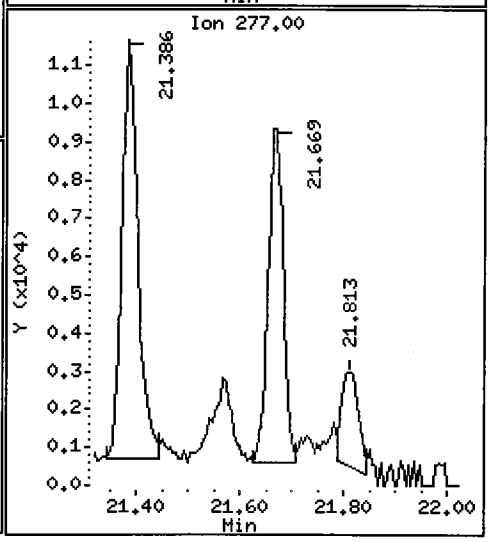












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: EB-SE04-A-081003
SAMPLE

Lab Sample ID: NS52E
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 22:17
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 27.5%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	< 20 U
541-73-1	1,3-Dichlorobenzene	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	Benzoic Acid	200	< 200 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	**Naphthalene**	**20**	**20**
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	**2-Methylnaphthalene**	**20**	**12 J**
131-11-3	**Dimethylphthalate**	**20**	**24**
208-96-8	**Acenaphthylene**	**20**	**14 J**
83-32-9	**Acenaphthene**	**20**	**24**
132-64-9	**Dibenzofuran**	**20**	**17 J**
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	**Fluorene**	**20**	**32**
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	98	< 98 U
85-01-8	**Phenanthrene**	**20**	**170**
120-12-7	**Anthracene**	**20**	**36**
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	**Fluoranthene**	**20**	**250**
129-00-0	**Pyrene**	**20**	**230**
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	**Benzo(a)anthracene**	**20**	**86**
117-81-7	**bis(2-Ethylhexyl)phthalate**	**20**	**54**
218-01-9	**Chrysene**	**20**	**120**
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	**Benzo(b)fluoranthene**	**20**	**120**
207-08-9	**Benzo(k)fluoranthene**	**20**	**92**
50-32-8	**Benzo(a)pyrene**	**20**	**97**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**20**	**29**
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	**Benzo(g,h,i)perylene**	**20**	**28**
90-12-0	1-Methylnaphthalene	20	< 20 U

Lab Sample ID: NS52E
LIMS ID: 08-26290
Matrix: Sediment
Date Analyzed: 10/08/08 22:17

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02

CAS Number	Analyte	RL	Result

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	62.0%	2-Fluorobiphenyl	67.6%
d14-p-Terphenyl	78.4%	d4-1,2-Dichlorobenzene	57.6%
d5-Phenol	63.2%	2-Fluorophenol	61.9%
2,4,6-Tribromophenol	86.7%	d4-2-Chlorophenol	65.9%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20081008.b/ns52e.d
Lab Smp Id: NS52E Client Smp ID: EB-SE04-A-081003
Inj Date : 08-OCT-2008 22:17
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : NS52E
Misc Info : 08-26290
Comment : 1ul Injection
Method : /chem1/nt6.i/20081008.b/SW846.m
Meth Date : 09-Oct-2008 09:21 jeff Quant Type: ISTD
Cal Date : 15-SEP-2008 14:30 Cal File: 0100915.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	35.30000	Weight of sample extracted (g)
M	27.50000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	1 2-Fluorophenol	112	4.402	4.354	(0.676)	229240	23.1780	452.8
$	2 Phenol-d5	99	6.234	6.213	(0.957)	300766	23.6572	462.2
	3 Phenol	94	Compound Not Detected.					
$	5 2-Chlorophenol-d4	132	6.224	6.213	(0.956)	190980	24.6963	482.5
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	6.512	6.513	(1.000)	123232	20.0000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	6.817	6.817	(1.047)	81387	14.4435	282.2
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.484	7.496	(0.871)	171467	15.5157	303.1
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.590	8.596	(1.000)	437686	20.0000	
	28 Naphthalene	128	8.617	8.623	(1.003)	27677	1.01239	19.78
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	9.739	9.745	(1.134)	8420	0.59735 LDL	11.67
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.412	10.418	(0.912)	270431	16.8711	329.6
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	11.181	11.187	(0.980)	20169	1.21104	23.66
	40 Acenaphthylene	152	11.160	11.160	(0.978)	17834	0.74106 LDL	14.48
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.411	11.417	(1.000)	234877	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	11.459	11.465	(1.004)	19456	1.24522	24.33
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	11.721	11.727	(1.027)	18436	0.87314 LDL	17.06
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	12.266	12.271	(1.075)	28049	1.60871	31.43(M)
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	12.693	12.688	(1.112)	67849	32.4879	634.7
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	13.729	13.730	(1.000)	332627	20.0000	
	60 Phenanthrene	178	13.761	13.762	(1.002)	195418	8.64273	168.9
	61 Anthracene	178	13.831	13.837	(1.007)	43276	1.83688	35.89
	62 Carbazole	167	14.151	14.152	(1.031)	15402	0.72929 LDL	14.25
	63 Di-n-butylphthalate	149	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	64 Fluoranthene	202	15.658	15.653	(1.140)	275625	12.8504	251.1
	65 Pyrene	202	15.989	15.990	(0.891)	302538	11.7294	229.2
$	66 Terphenyl-d14	244	16.379	16.380	(0.912)	300463	19.5953	382.8
	67 Butylbenzylphthalate	149	Compound Not Detected.					
	68 Benzo(a)anthracene	228	17.928	17.929	(0.999)	104050	4.40596	86.08
*	69 Chrysene-d12	240	17.950	17.955	(1.000)	330116	20.0000	
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	17.987	17.993	(1.002)	147652	6.21855	121.5
	72 bis(2-Ethylhexyl)phthalate	149	18.345	18.340	(0.952)	42933	2.75996	53.92
*	134 Di-n-octylphthalate-d4	153	19.264	19.264	(1.000)	560190	20.0000	
	73 Di-n-octylphthalate	149	Compound Not Detected.					
	74 Benzo(b)fluoranthene	252	19.552	19.553	(0.975)	121098	6.39380	124.9(M)
	75 Benzo(k)fluoranthene	252	19.563	19.585	(0.975)	100488	4.69703	91.77(M)
	76 Benzo(a)pyrene	252	19.974	19.975	(0.996)	91044	4.95017	96.71
*	77 Perylene-d12	264	20.060	20.055	(1.000)	286300	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	21.385	21.390	(1.066)	32739	1.47380	28.79(M)
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	21.668	21.674	(1.080)	29418	1.44416	28.21
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	Compound Not Detected.					
	105 1-methylnaphthalene	141	Compound Not Detected.					
	111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: ns52e.d
Lab Smp Id: NS52E
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20081008.b/SW846.m
Misc Info: 08-26290

Calibration Date: 08-OCT-2008
Calibration Time: 12:09
Client Smp ID: EB-SE04-A-081003
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	118976	59488	237952	123232	3.58
27 Naphthalene-d8	414286	207143	828572	437686	5.65
42 Acenaphthene-d10	208588	104294	417176	234877	12.60
59 Phenanthrene-d10	283346	141673	566692	332627	17.39
69 Chrysene-d12	273753	136876	547506	330116	20.59
134 Di-n-octylphthala	485719	242860	971438	560190	15.33
77 Perylene-d12	342905	171452	685810	286300	-16.51

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.51	6.01	7.01	6.51	-0.01
27 Naphthalene-d8	8.60	8.10	9.10	8.59	-0.07
42 Acenaphthene-d10	11.42	10.92	11.92	11.41	-0.05
59 Phenanthrene-d10	13.73	13.23	14.23	13.73	0.00
69 Chrysene-d12	17.96	17.46	18.46	17.95	-0.03
134 Di-n-octylphthala	19.26	18.76	19.76	19.26	0.00
77 Perylene-d12	20.05	19.55	20.55	20.06	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

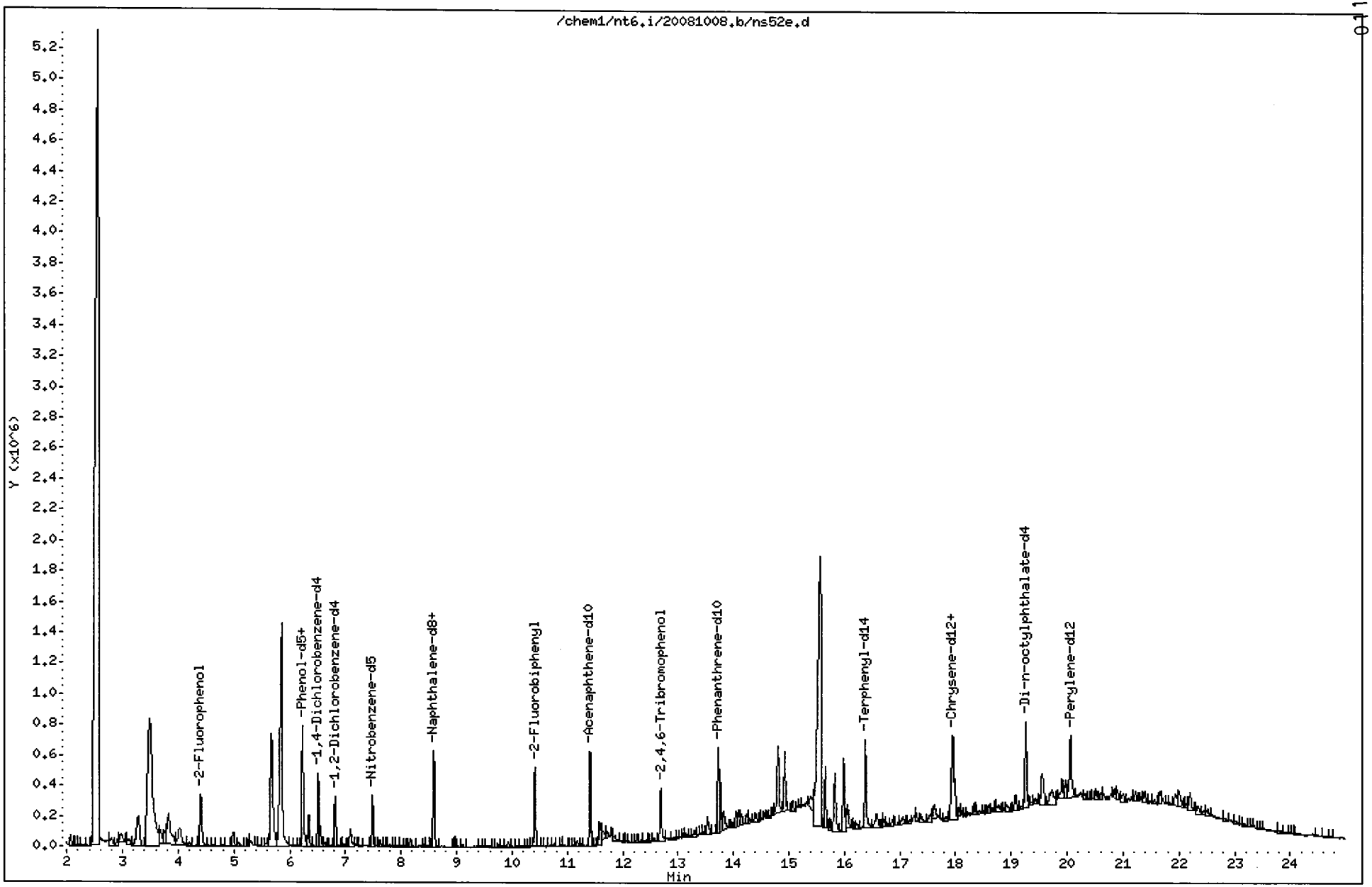
Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: NS52E
Level: LOW
Data Type: MS DATA
SpikeList File: SEPLCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20081008.b/SW846.m
Misc Info: 08-26290

Client SDG: NS52
Fraction: SV
Client Smp ID: EB-SE04-A-081003
Operator: LJR/VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	732.6	452.8	61.81	10-114
$ 2 Phenol-d5	732.6	462.2	63.09	29-85
$ 5 2-Chlorophenol-d4	732.6	482.5	65.86	30-84
$ 10 1,2-Dichlorobenzen	488.4	282.2	57.77	25-82
$ 18 Nitrobenzene-d5	488.4	303.1	62.06	29-87
$ 36 2-Fluorobiphenyl	488.4	329.6	67.48	32-88
$ 55 2,4,6-Tribromophen	732.6	634.7	86.63	25-103
$ 66 Terphenyl-d14	488.4	382.8	78.38	21-97

Data File: /chem1/nt6.i/20081008.b/ns52e.d
Date : 08-OCT-2008 22:17
Client ID: EB-SE04-A-081003
Sample Info: NS52E
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32



Data File: /chem1/nt6.i/20081008.b/ns52e.d

Date : 08-OCT-2008 22:17

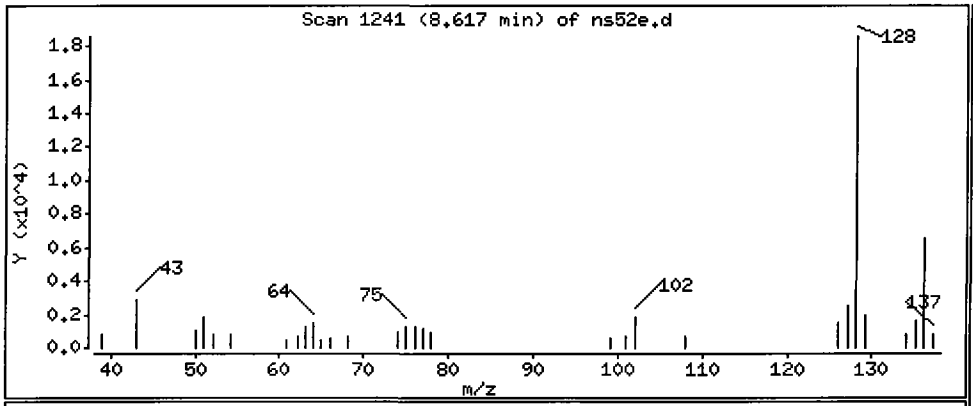
Client ID: EB-SE04-A-081003 Instrument: nt6.i

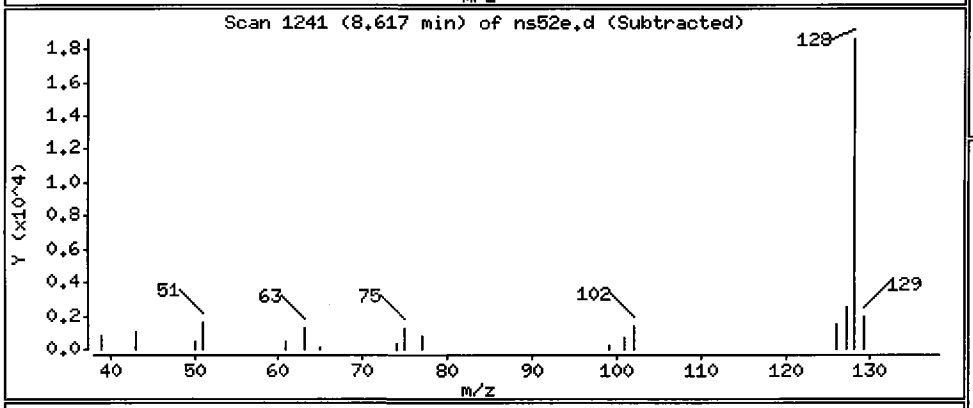
Sample Info: NS52E

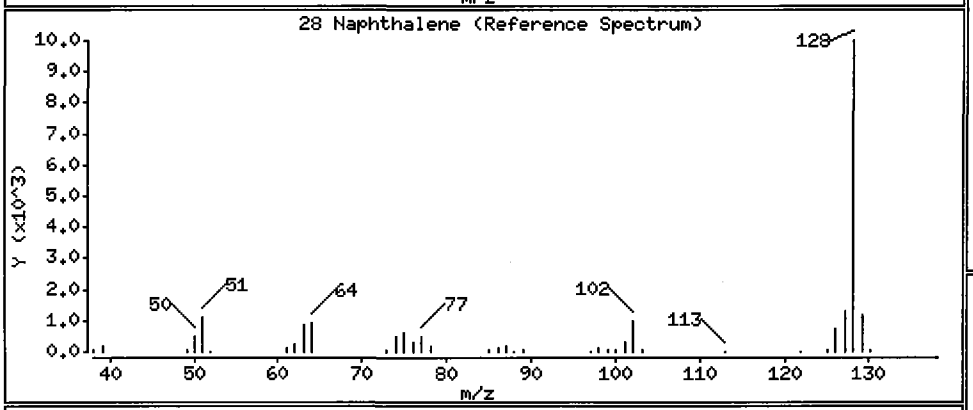
Volume Injected (uL): 1.0 Operator: LJR/VTS

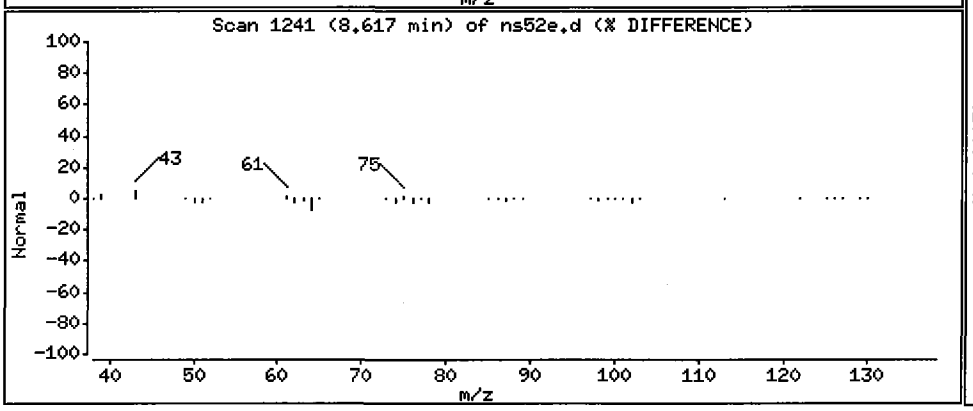
Column phase: ZB-5 Column diameter: 0.32

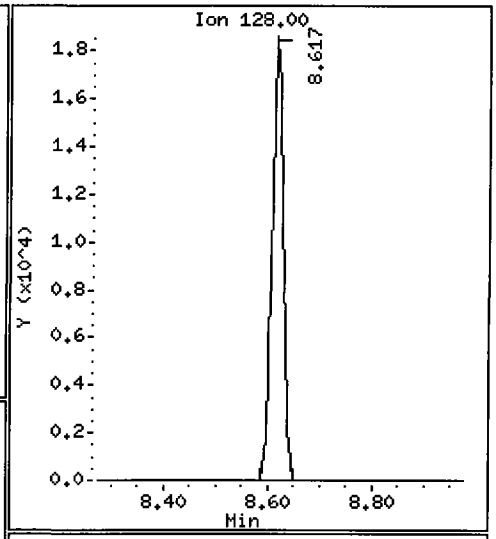
28 Naphthalene Concentration: 19.78 ug/kg

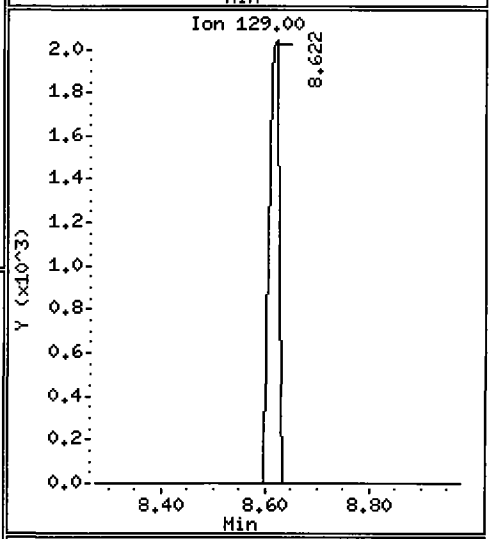


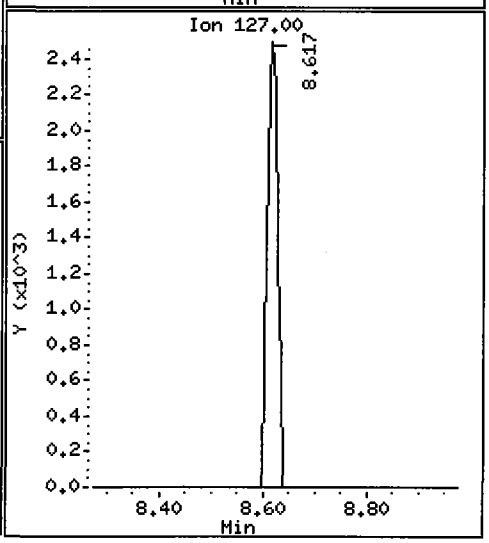












Data File: /chem1/nt6.i/20081008.b/ns52e.d

Date : 08-OCT-2008 22:17

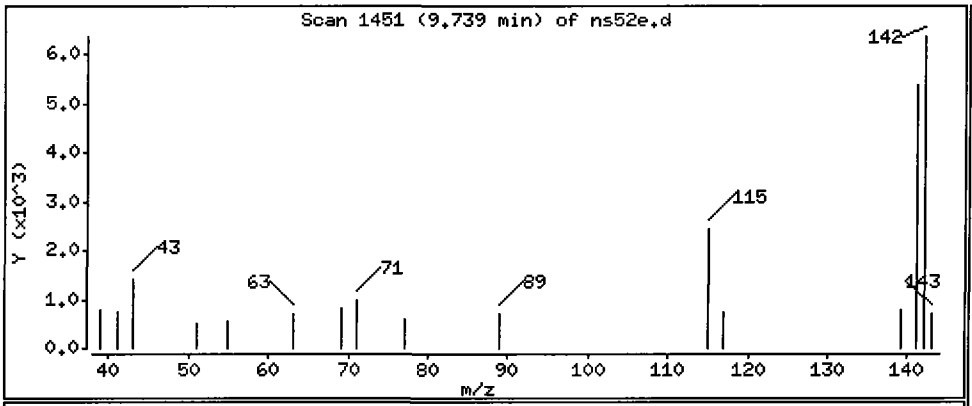
Client ID: EB-SE04-A-081003 Instrument: nt6.i

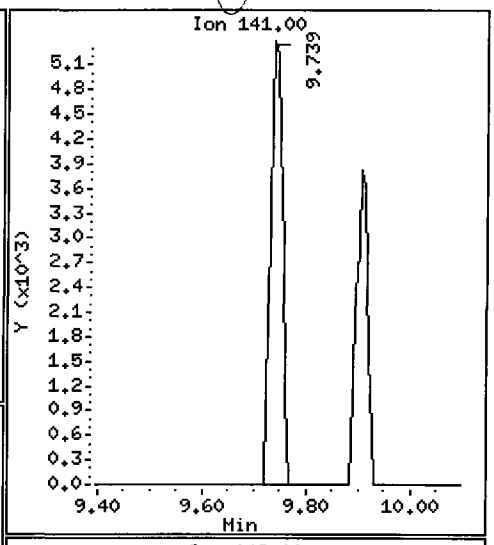
Sample Info: NS52E

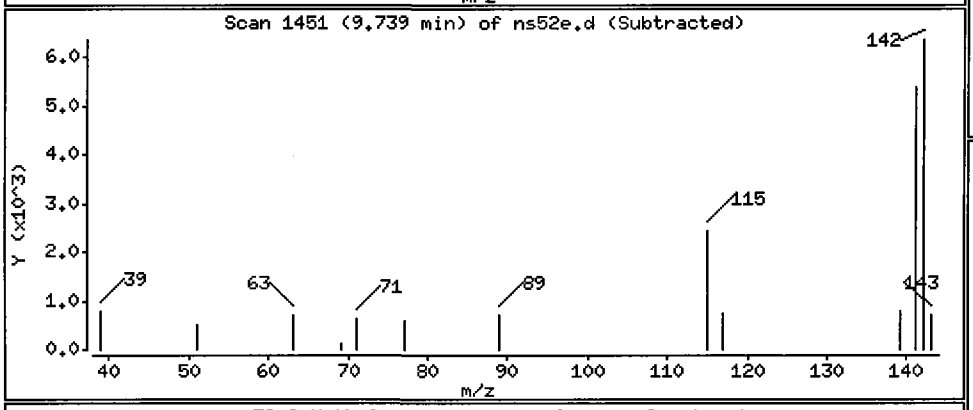
Volume Injected (uL): 1.0 Operator: LJR/VTS

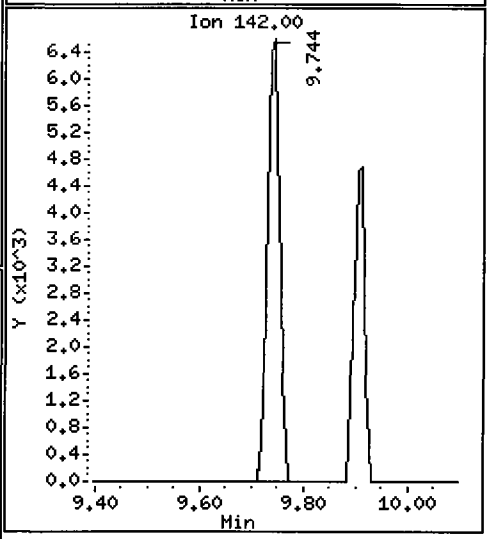
Column phase: ZB-5 Column diameter: 0.32

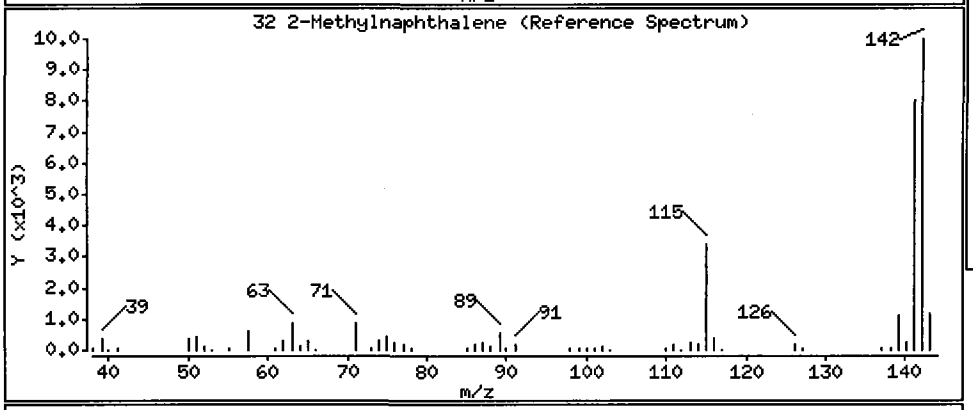
32 2-Methylnaphthalene Concentration: 11.67 ug/kg

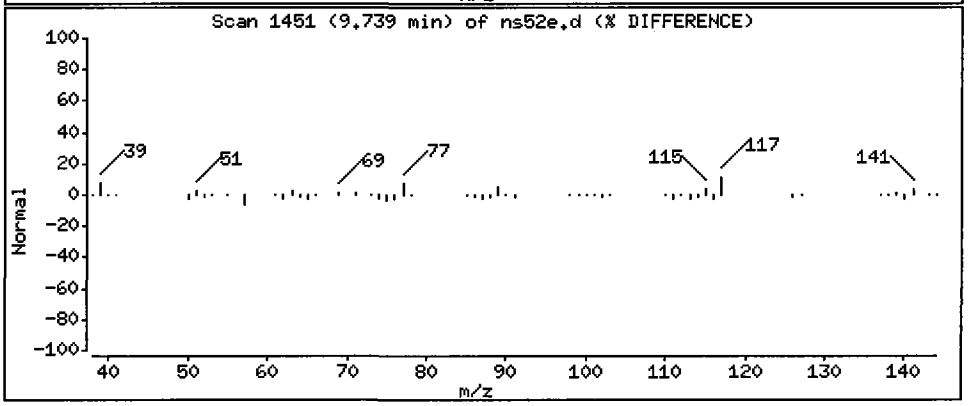












Data File: /chem1/nt6.i/20081008.b/ns52e.d

Date : 08-OCT-2008 22:17

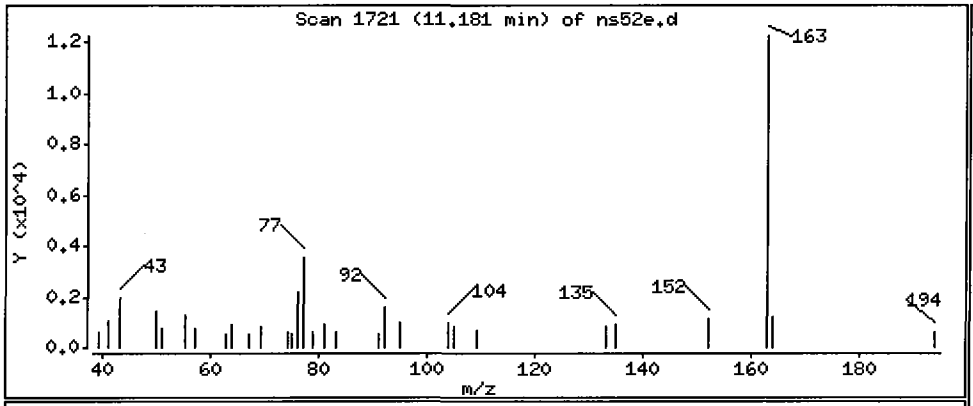
Client ID: EB-SE04-A-081003 Instrument: nt6.i

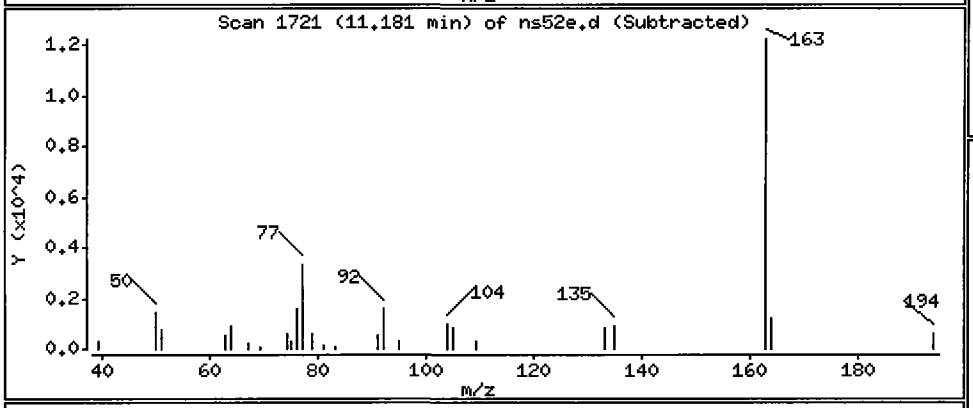
Sample Info: NS52E

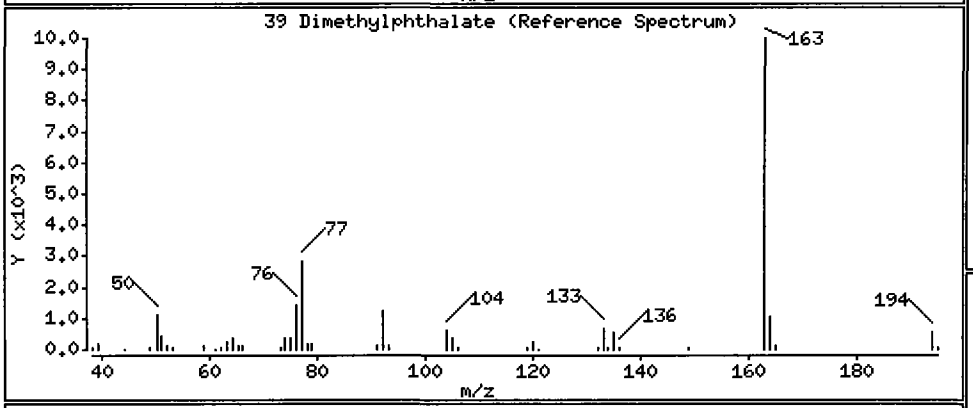
Volume Injected (uL): 1.0 Operator: LJR/VTS

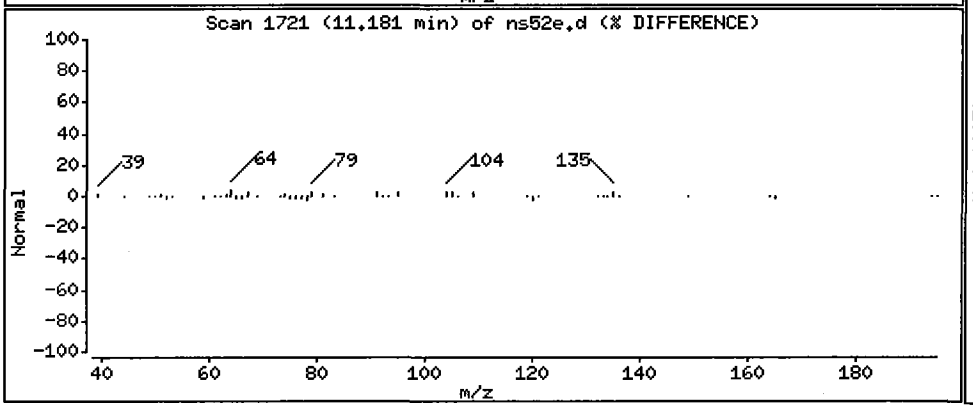
Column phase: ZB-5 Column diameter: 0.32

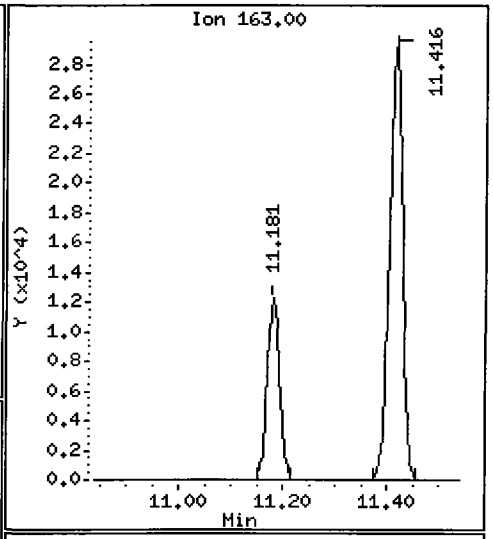
39 Dimethylphthalate Concentration: 23.66 ug/kg

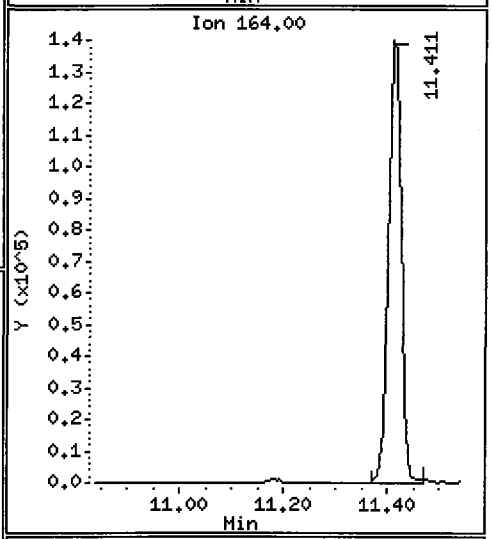


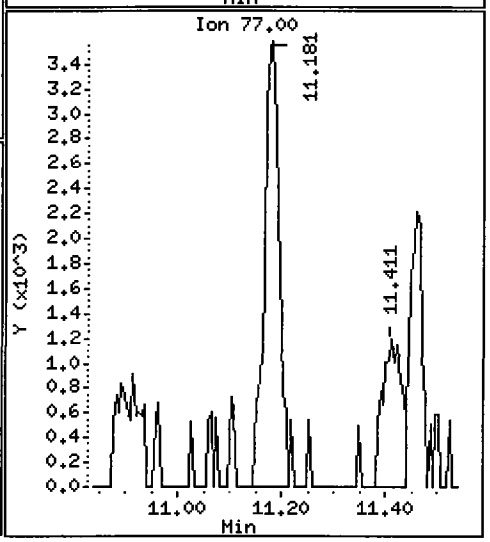












Data File: /chem1/nt6.i/20081008.b/ns52e.d

Date : 08-OCT-2008 22:17

Client ID: EB-SE04-A-081003 Instrument: nt6.i

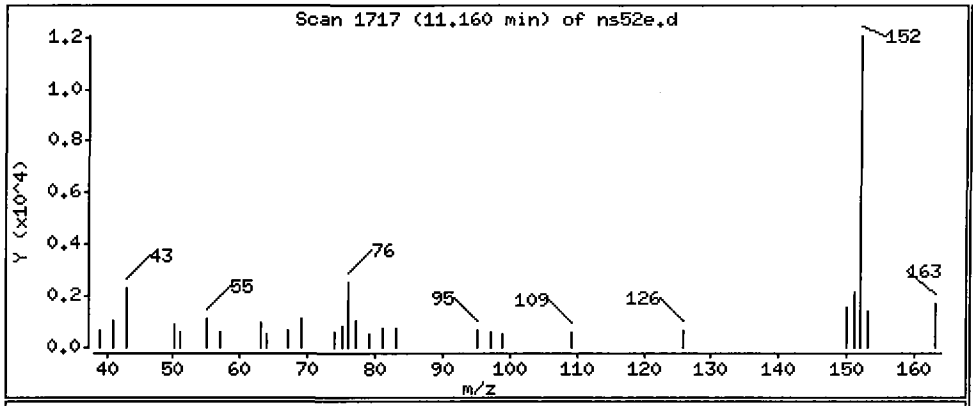
Sample Info: NS52E

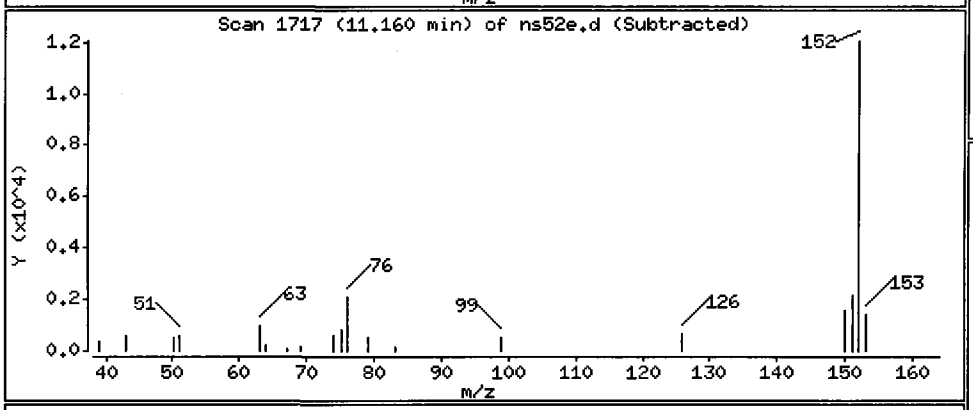
Volume Injected (uL): 1.0 Operator: LJR/VTS

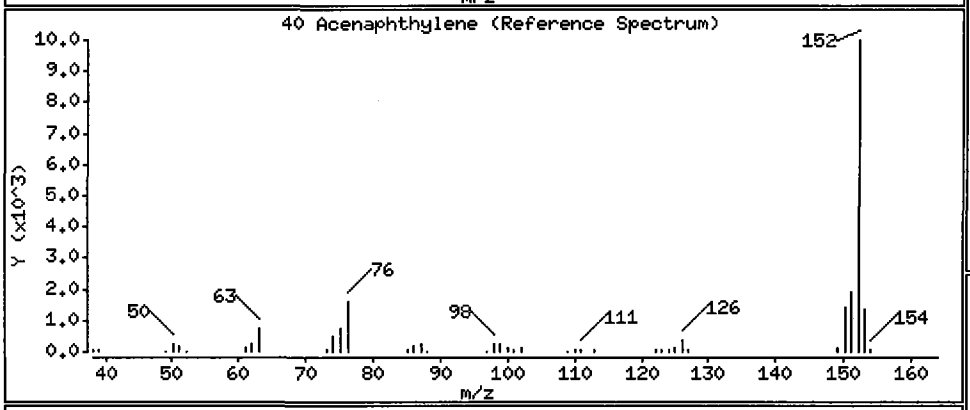
Column phase: ZB-5 Column diameter: 0.32

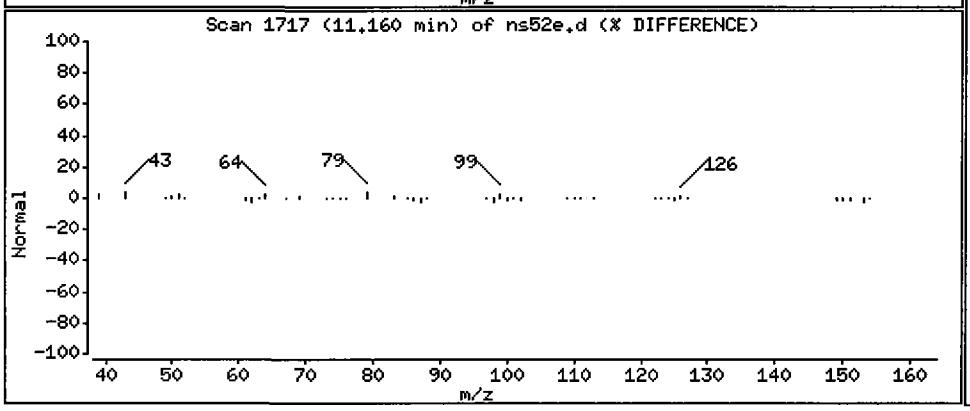
5 uL

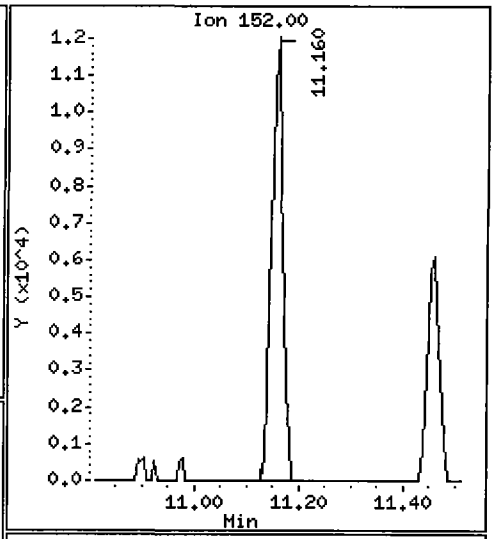
40 Acenaphthylene Concentration: 14.48 ug/kg

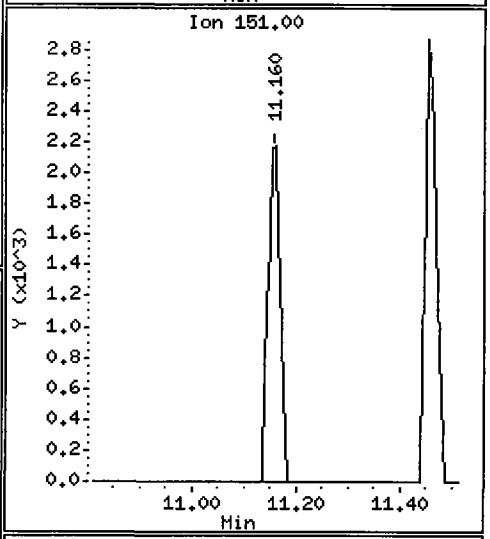


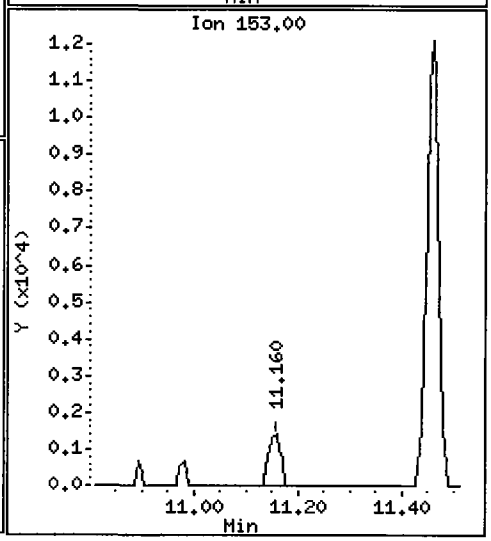












Data File: /chem1/nt6.i/20081008.b/ns52e.d

Date : 08-OCT-2008 22:17

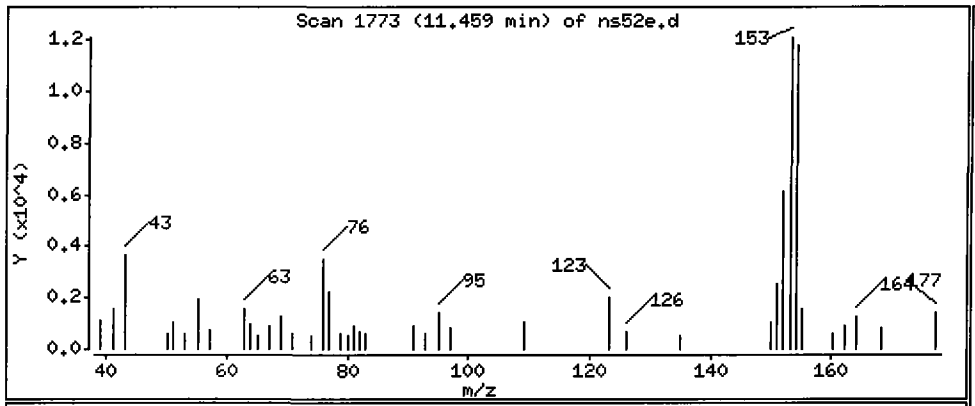
Client ID: EB-SE04-A-081003 Instrument: nt6.i

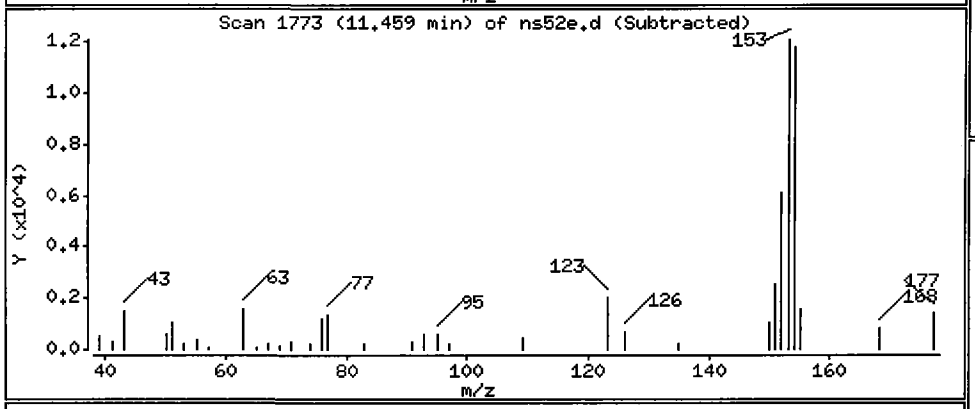
Sample Info: NS52E

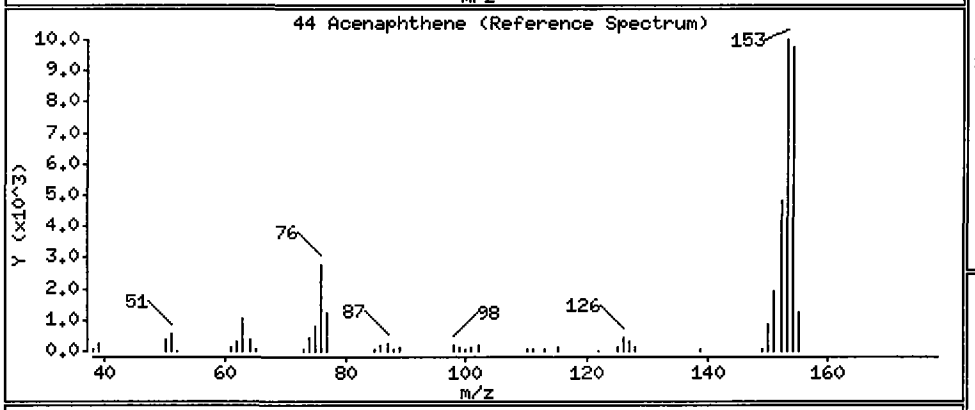
Volume Injected (uL): 1.0 Operator: LJR/VTS

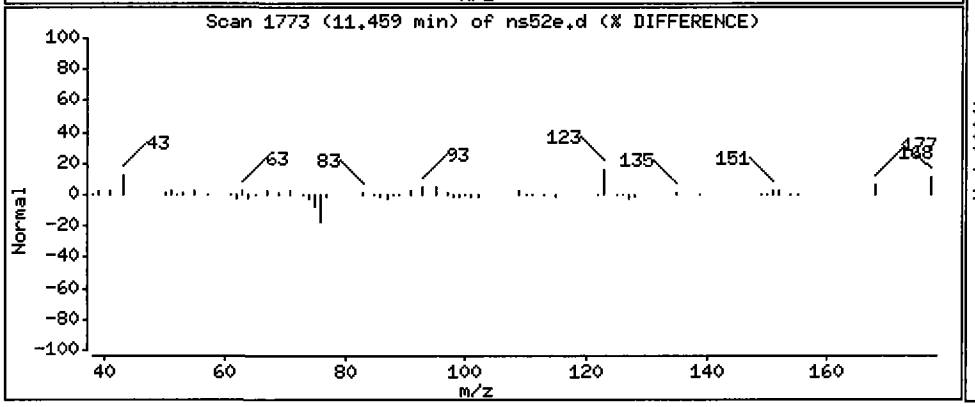
Column phase: ZB-5 Column diameter: 0.32

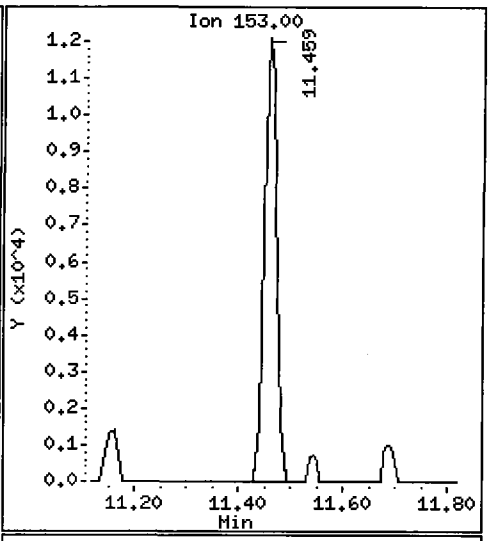
44 Acenaphthene Concentration: 24.33 ug/kg

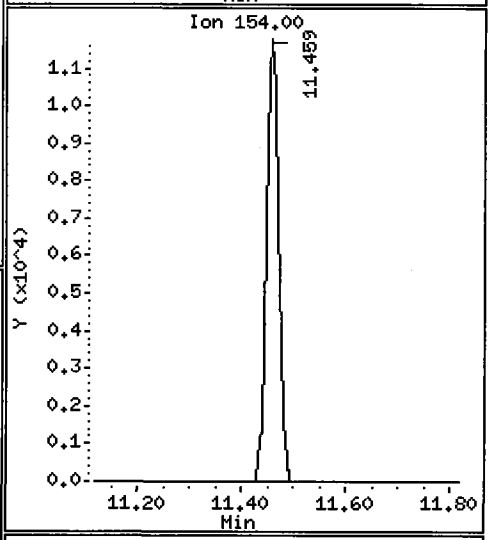


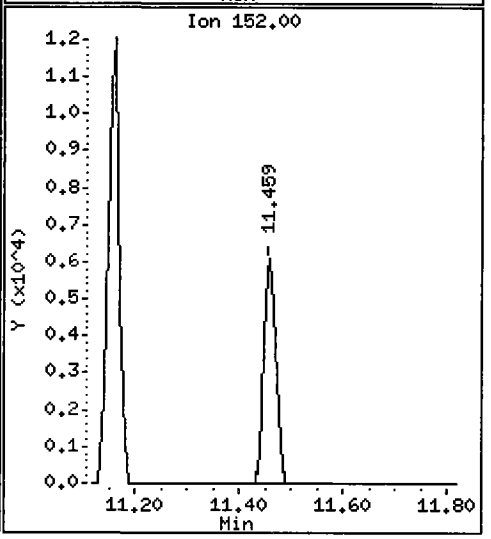












Data File: /chem1/nt6.i/20081008.b/ns52e.d

Date : 08-OCT-2008 22:17

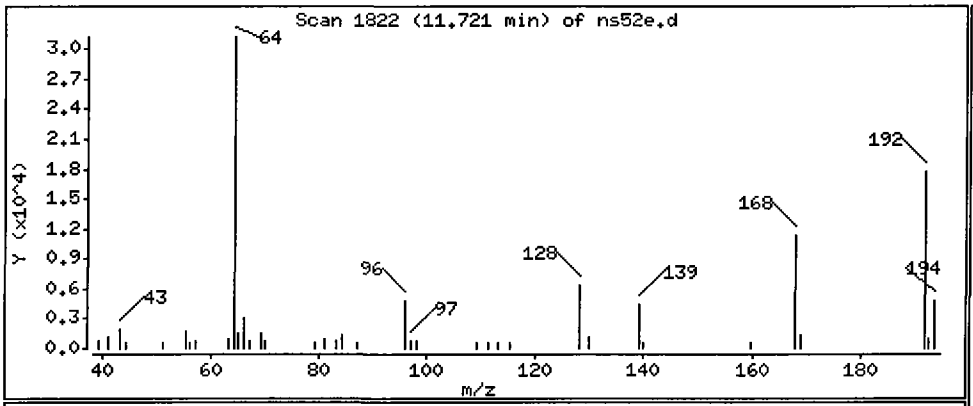
Client ID: EB-SE04-A-081003 Instrument: nt6.i

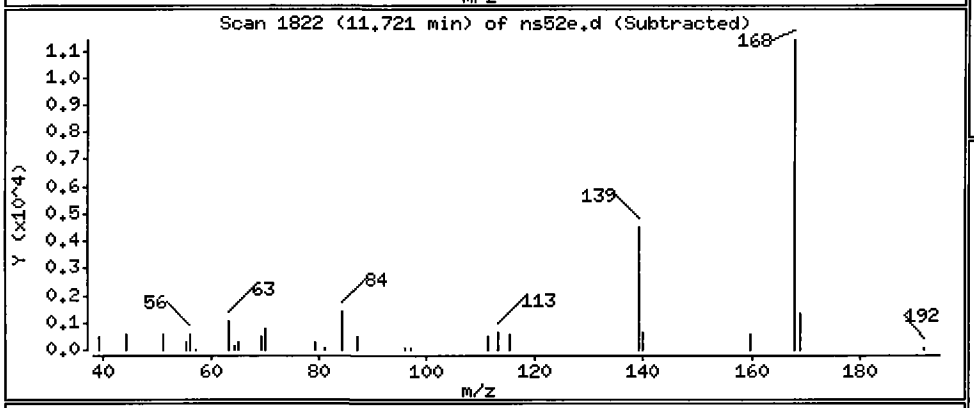
Sample Info: NS52E

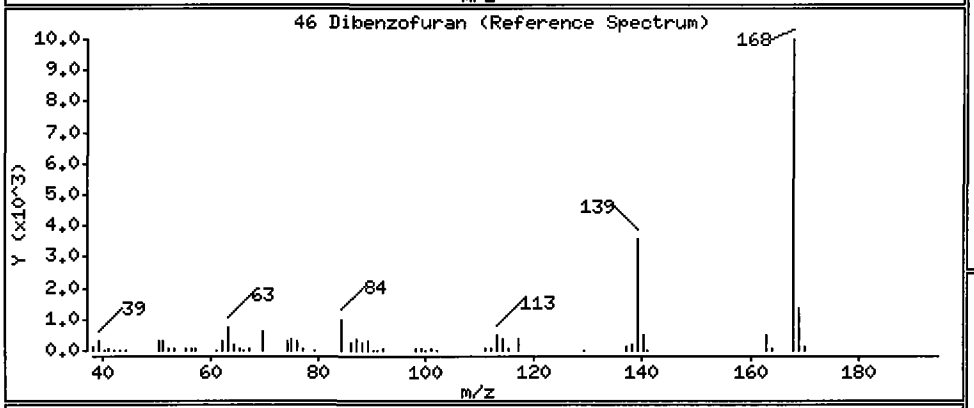
Volume Injected (uL): 1.0 Operator: LJR/VTS

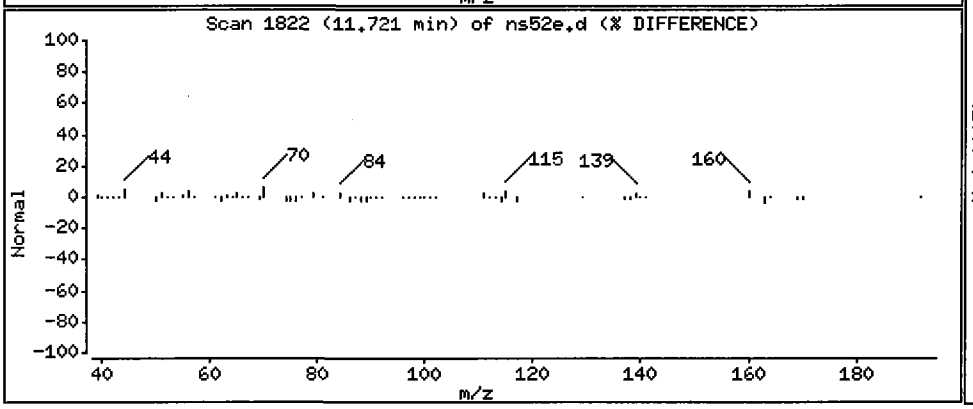
Column phase: ZB-5 Column diameter: 0.32

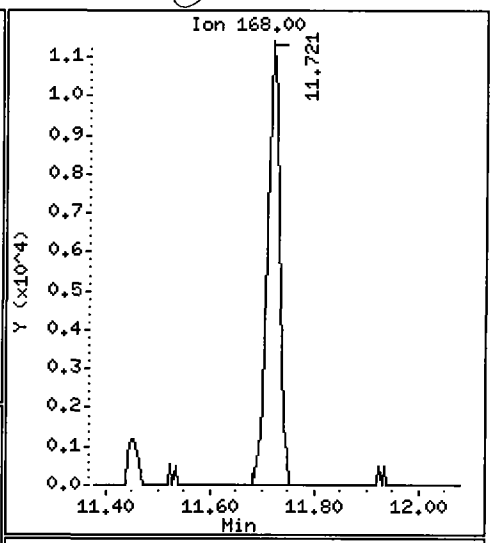
46 Dibenzofuran Concentration: 17.06 ug/kg

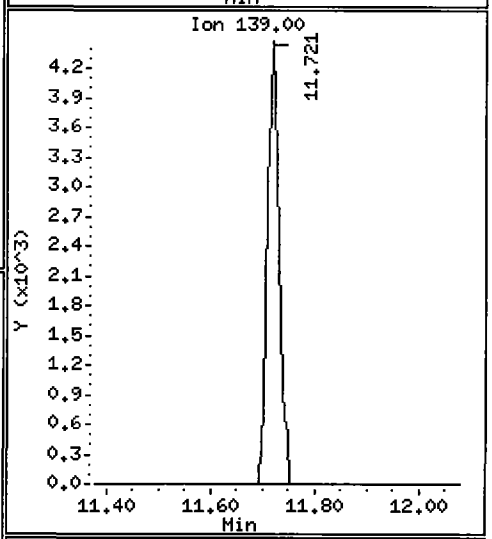


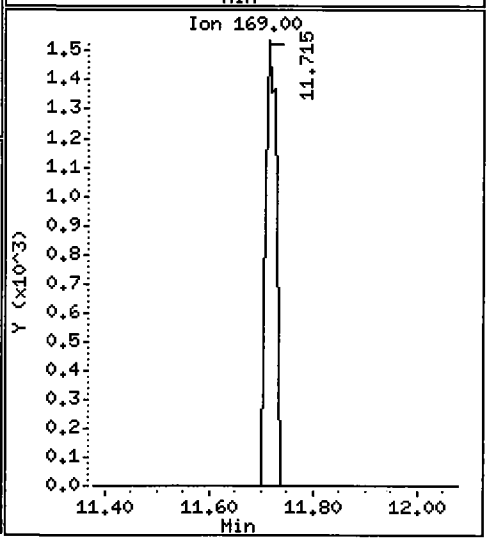












Data File: /chem1/nt6.i/20081008.b/ns52e.d

Date : 08-OCT-2008 22:17

Client ID: EB-SE04-A-081003

Instrument: nt6.i

Sample Info: NS52E

Volume Injected (uL): 1.0

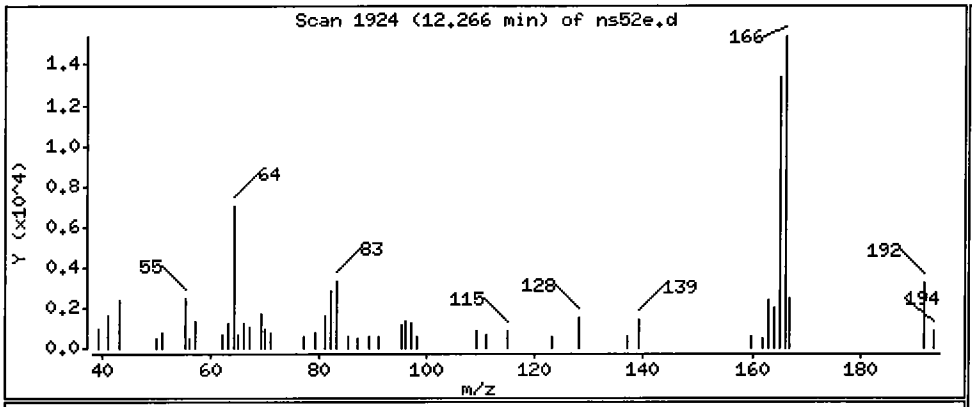
Operator: LJR/VTS

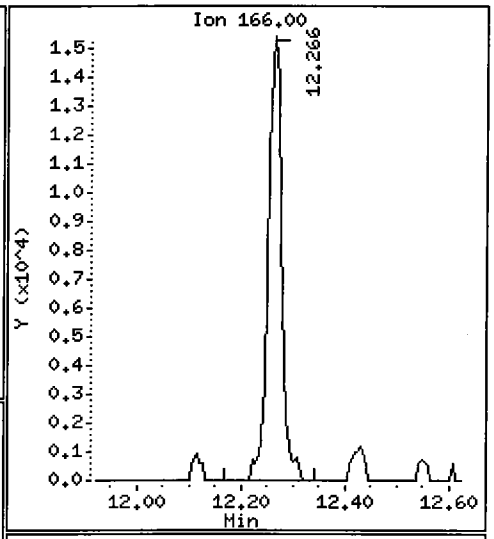
Column phase: ZB-5

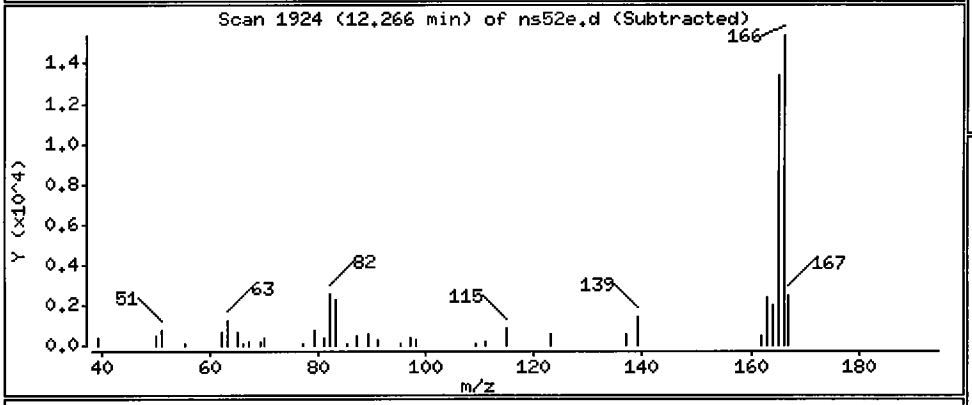
Column diameter: 0.32

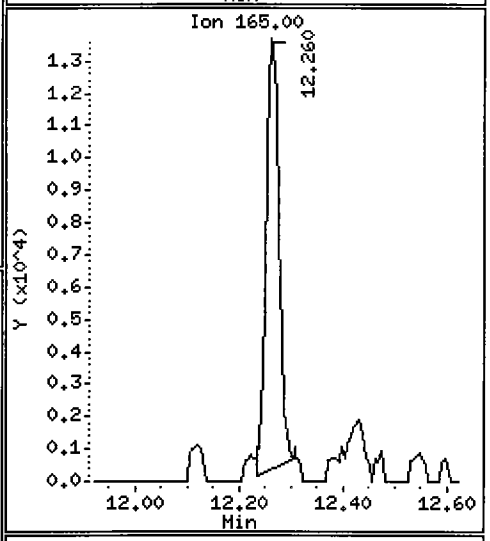
49 Fluorene

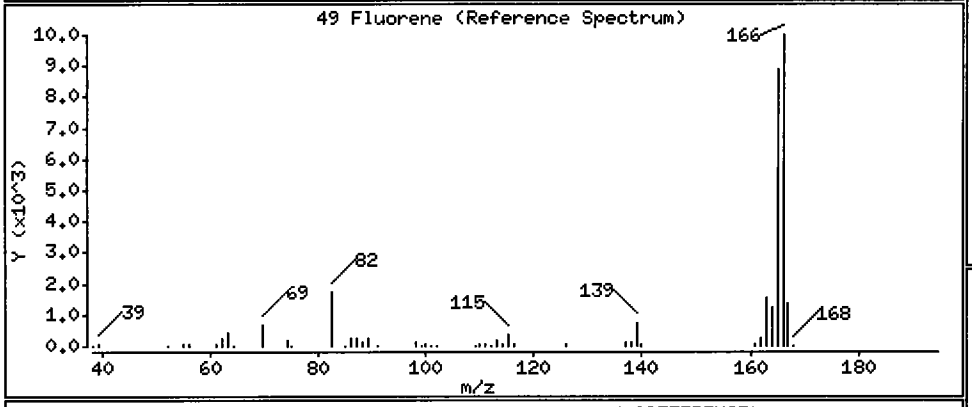
Concentration: 31.43 ug/kg

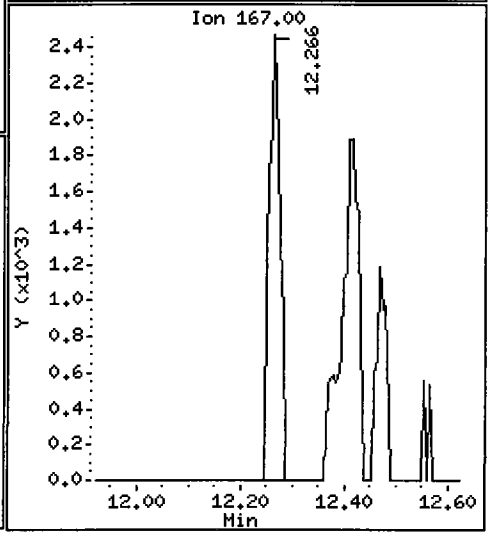


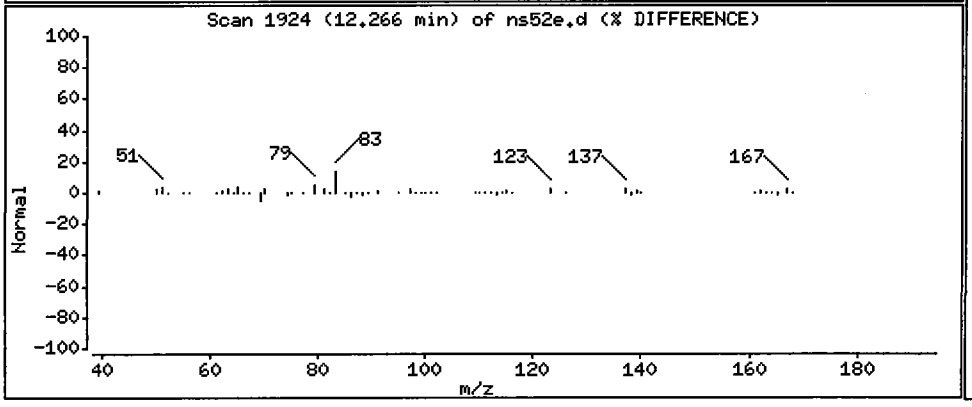












Data File: /chem1/nt6.i/20081008.b/ns52e.d

Date : 08-OCT-2008 22:17

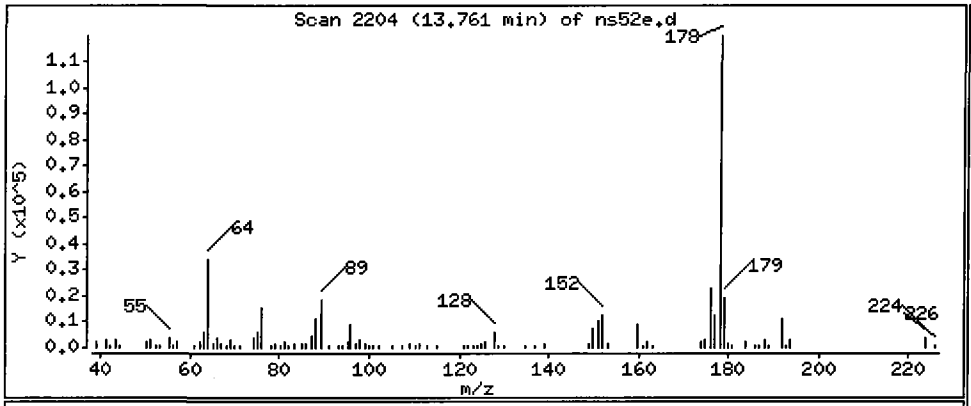
Client ID: EB-SE04-A-081003 Instrument: nt6.i

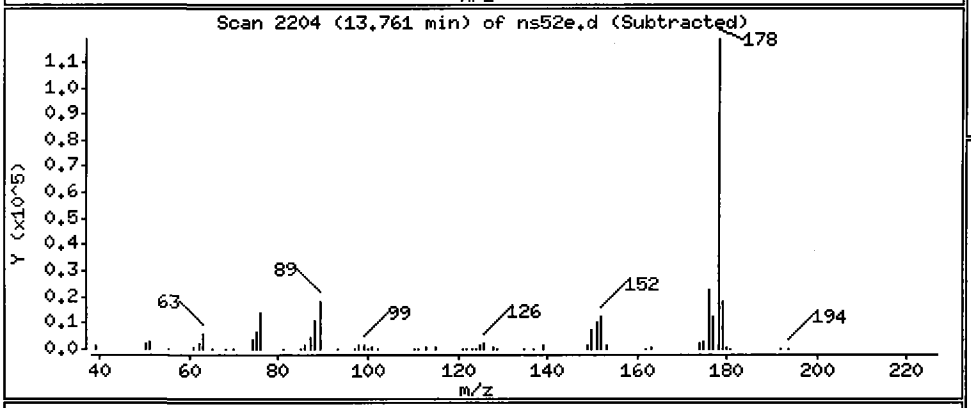
Sample Info: NS52E

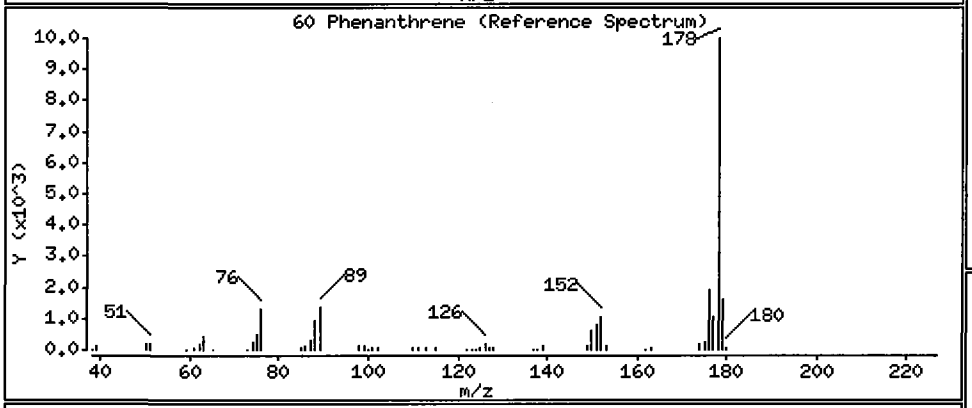
Volume Injected (uL): 1.0 Operator: LJR/VTS

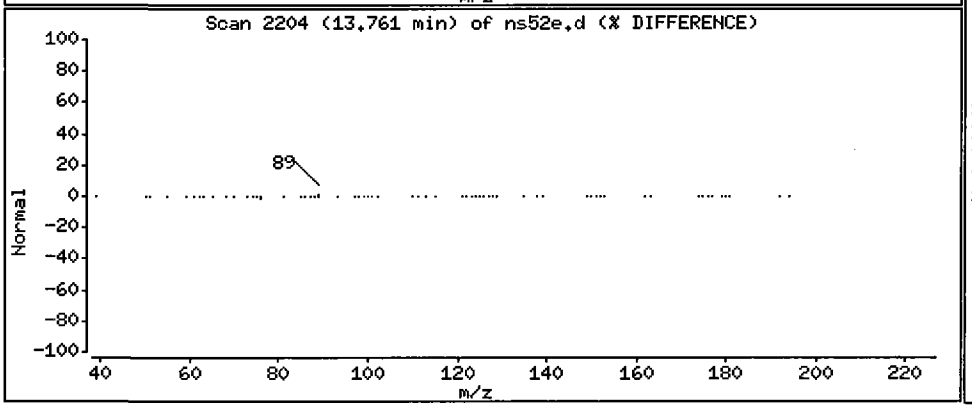
Column phase: ZB-5 Column diameter: 0.32

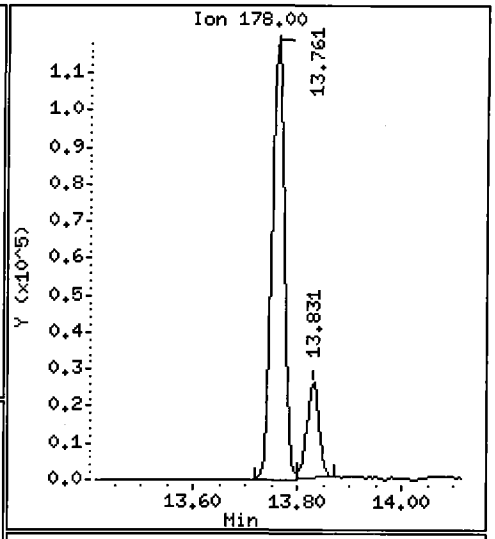
60 Phenanthrene Concentration: 168.9 ug/kg

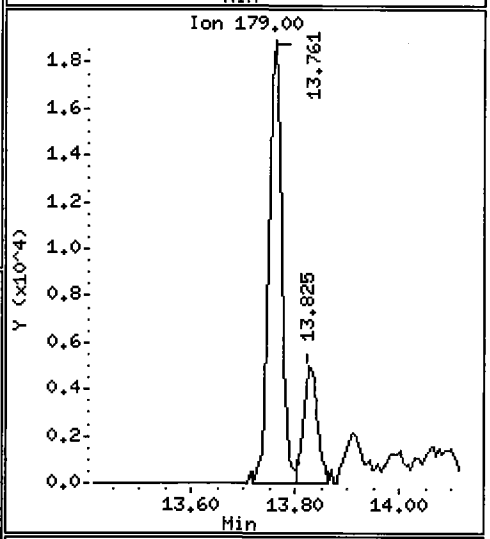


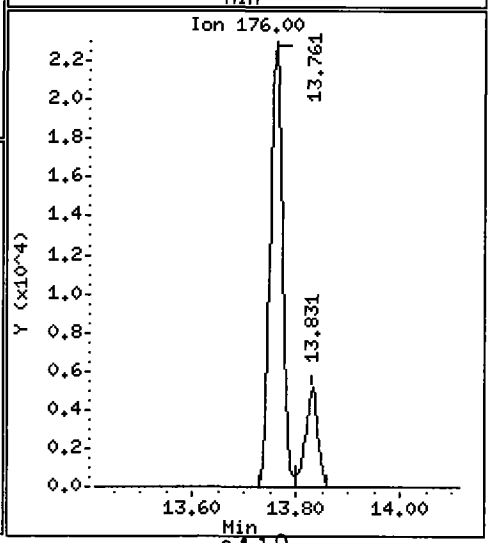












Data File: /chem1/nt6.i/20081008.b/ns52e.d

Date : 08-OCT-2008 22:17

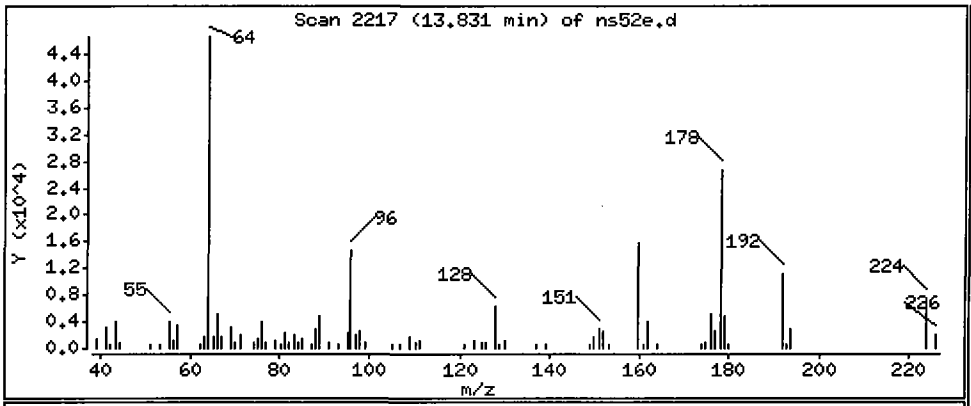
Client ID: EB-SE04-A-081003 Instrument: nt6.i

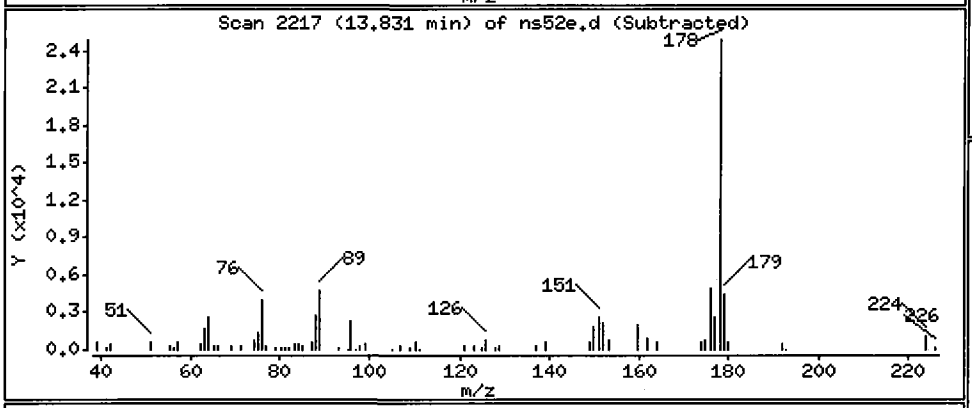
Sample Info: NS52E

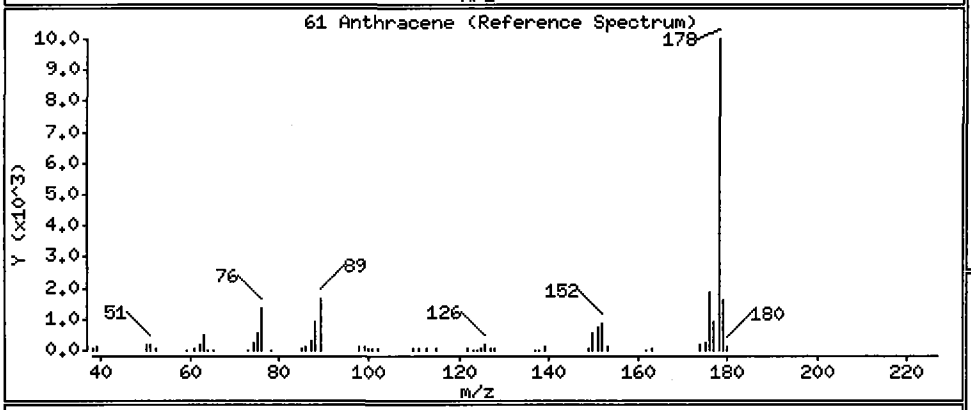
Volume Injected (uL): 1.0 Operator: LJR/VTS

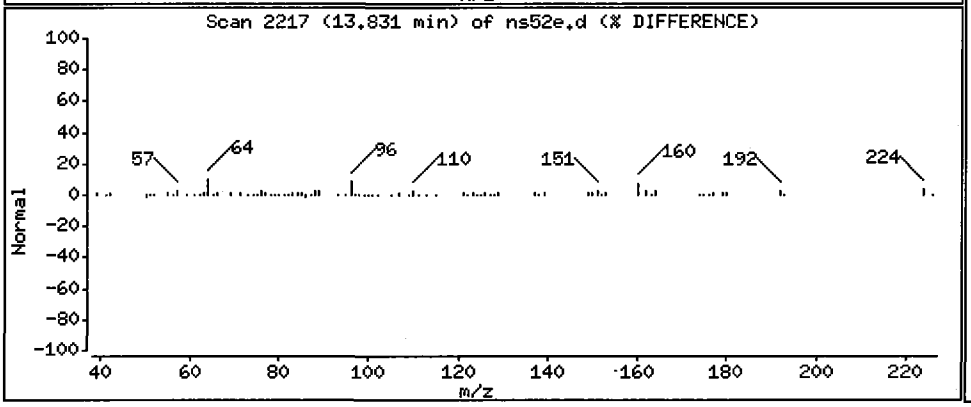
Column phase: ZB-5 Column diameter: 0.32

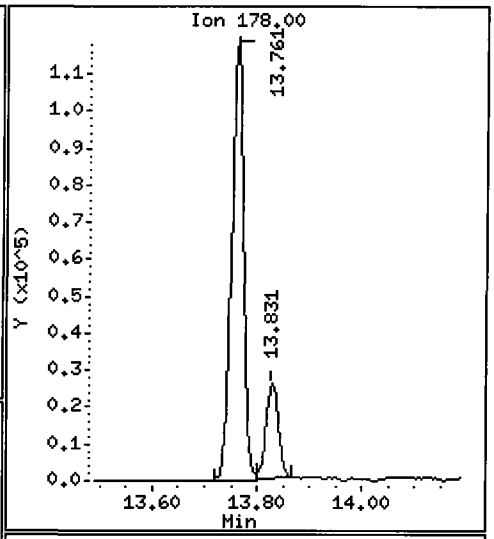
61 Anthracene Concentration: 35.89 ug/kg

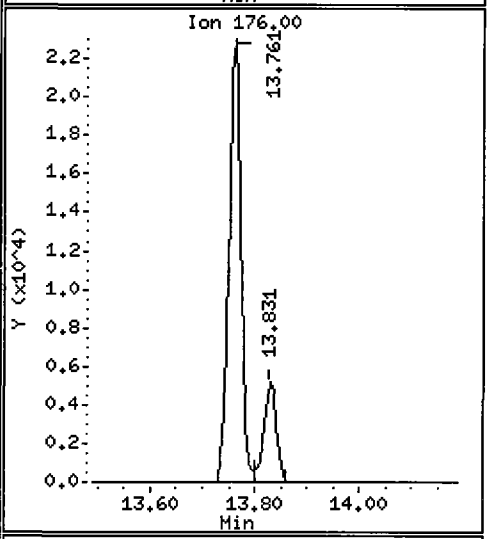


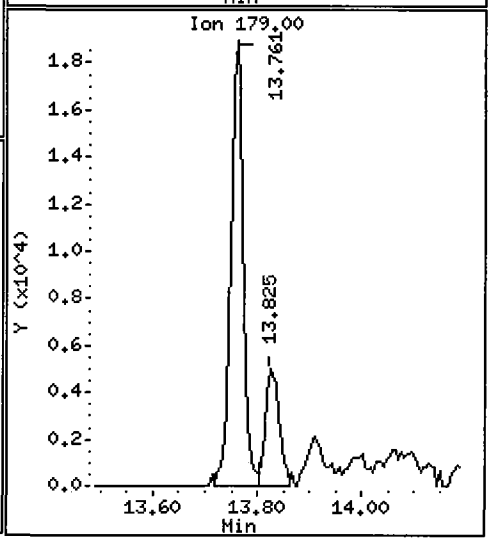












Data File: /chem1/nt6.i/20081008.b/ns52e.d

Date : 08-OCT-2008 22:17

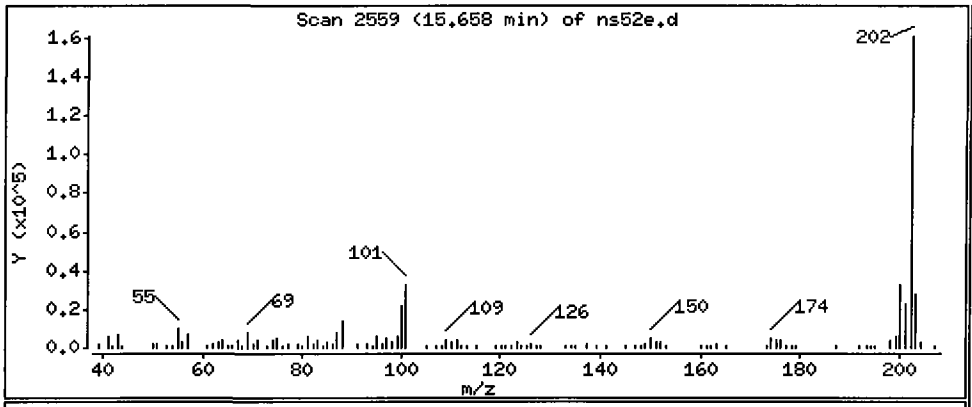
Client ID: EB-SE04-A-081003 Instrument: nt6.i

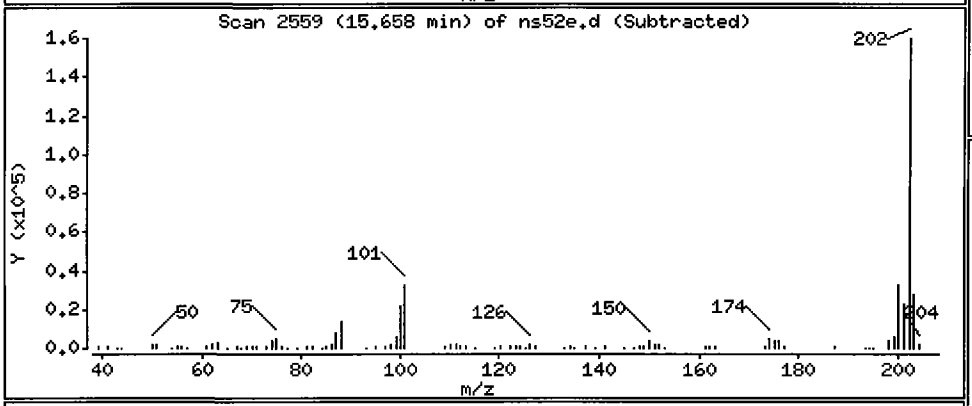
Sample Info: NS52E

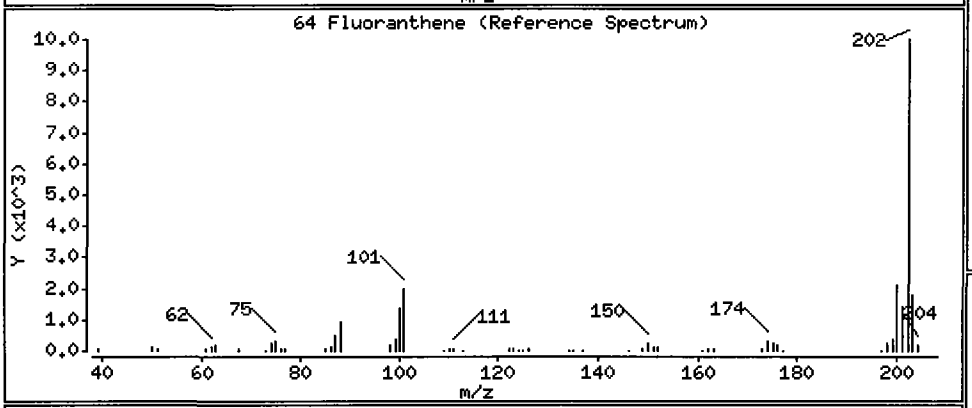
Volume Injected (uL): 1.0 Operator: LJR/VTS

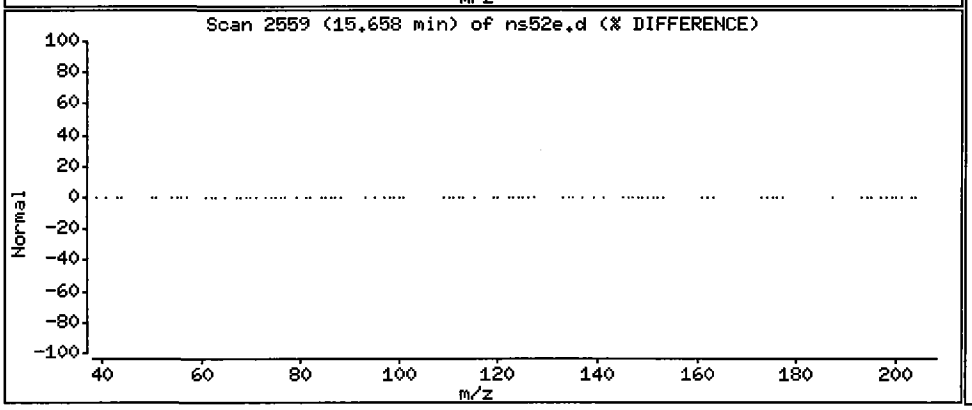
Column phase: ZB-5 Column diameter: 0.32

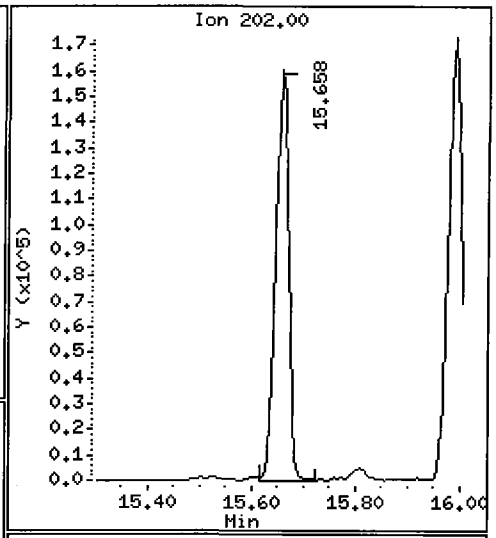
64 Fluoranthene Concentration: 251.1 ug/kg

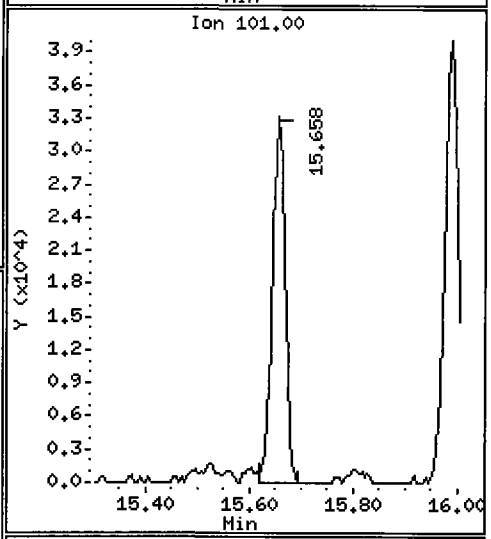


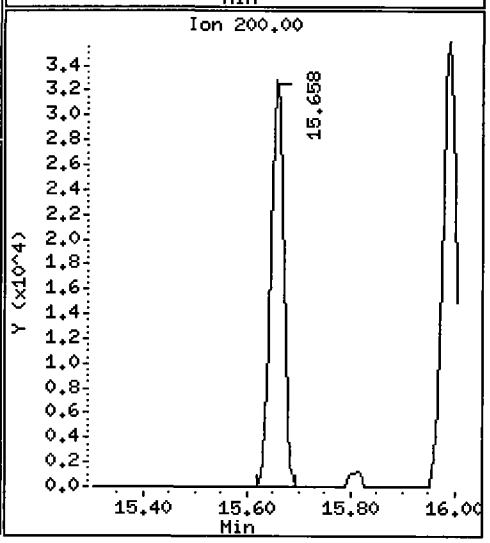












Data File: /chem1/nt6.i/20081008.b/ns52e.d

Date : 08-OCT-2008 22:17

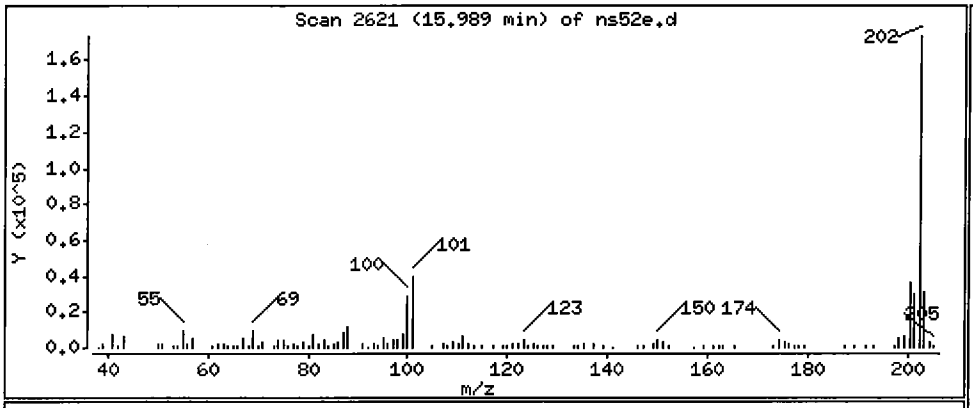
Client ID: EB-SE04-A-081003 Instrument: nt6.i

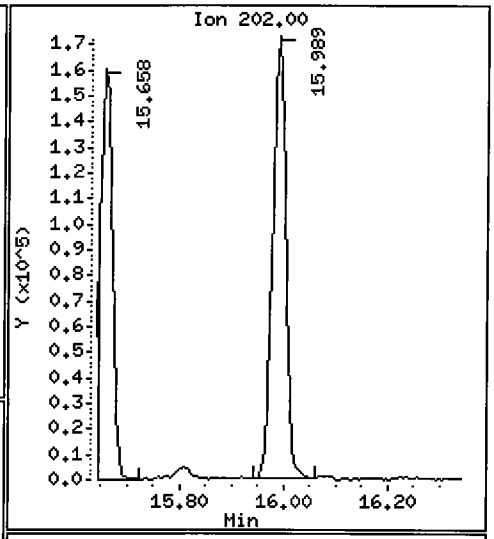
Sample Info: NS52E

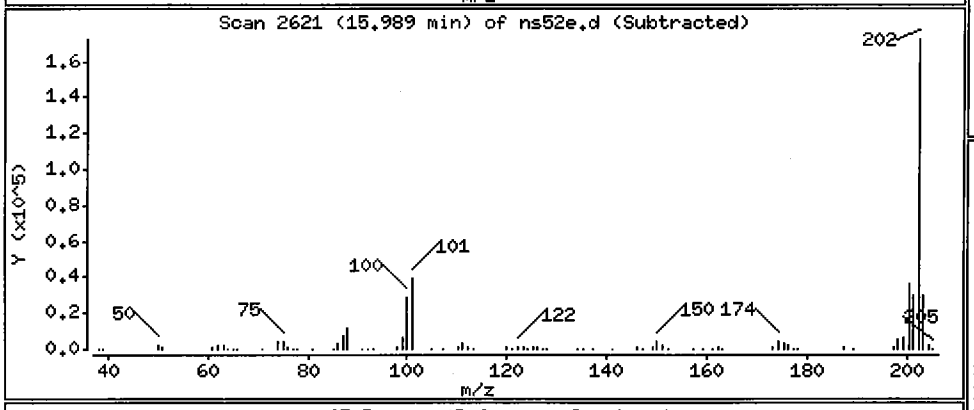
Volume Injected (uL): 1.0 Operator: LJR/VTS

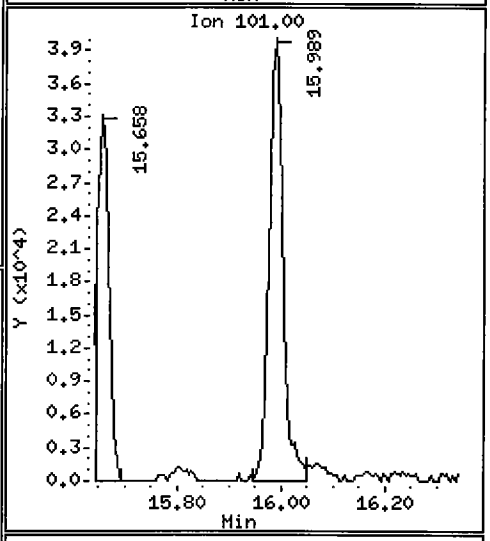
Column phase: ZB-5 Column diameter: 0.32

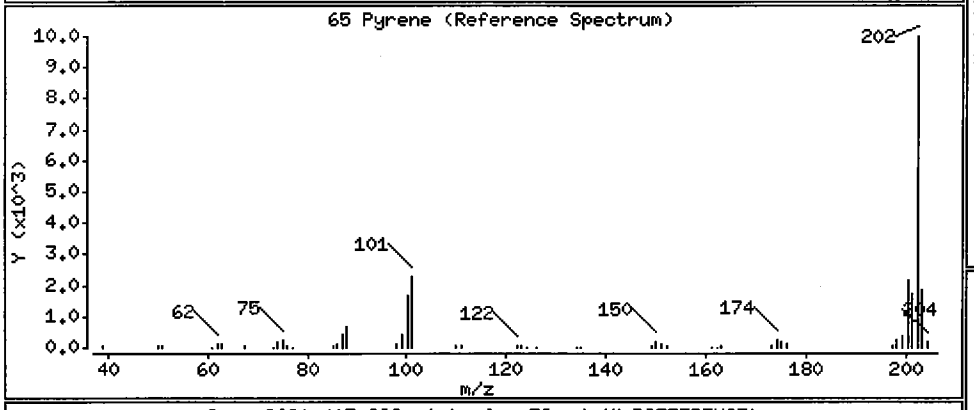
65 Pyrene Concentration: 229.2 ug/kg

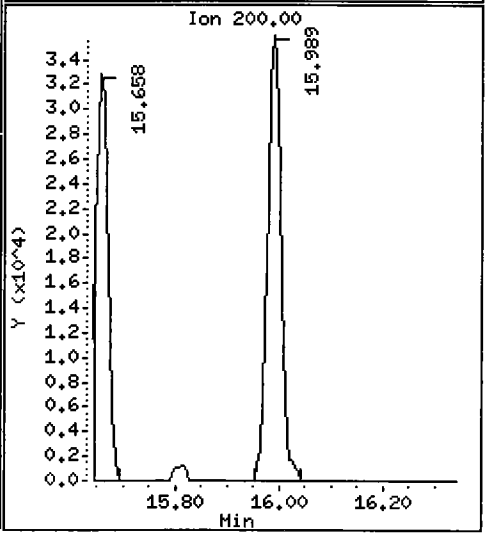


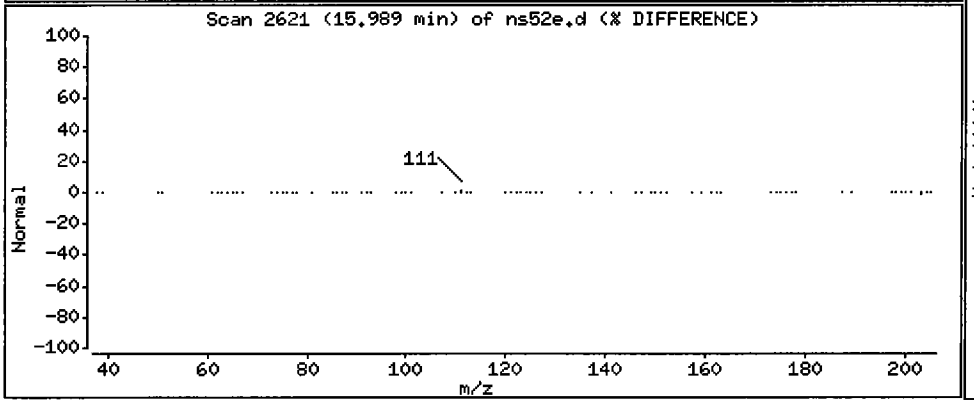












Data File: /chem1/nt6.i/20081008.b/ns52e.d

Date : 08-OCT-2008 22:17

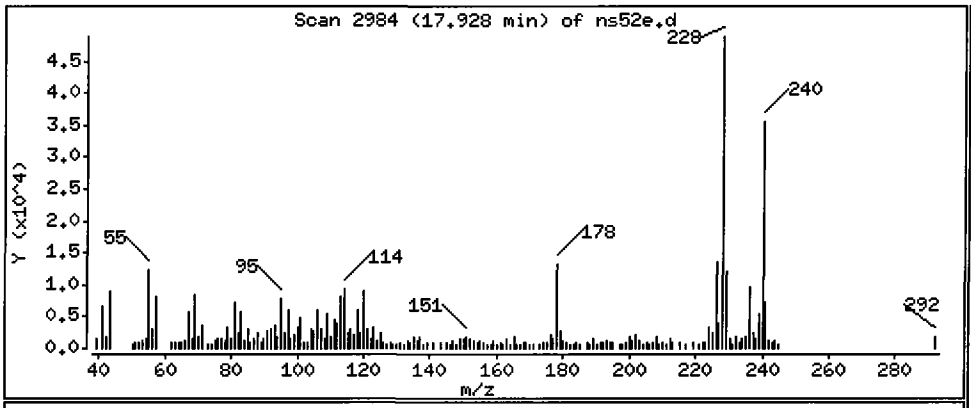
Client ID: EB-SE04-A-081003 Instrument: nt6.i

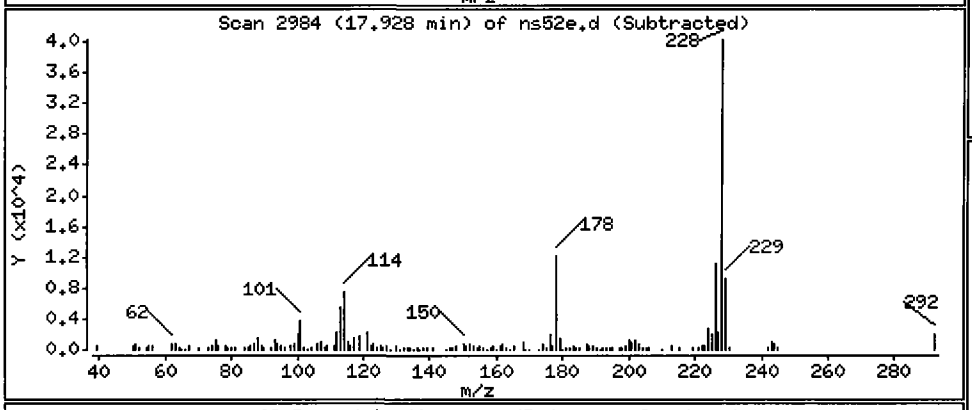
Sample Info: NS52E

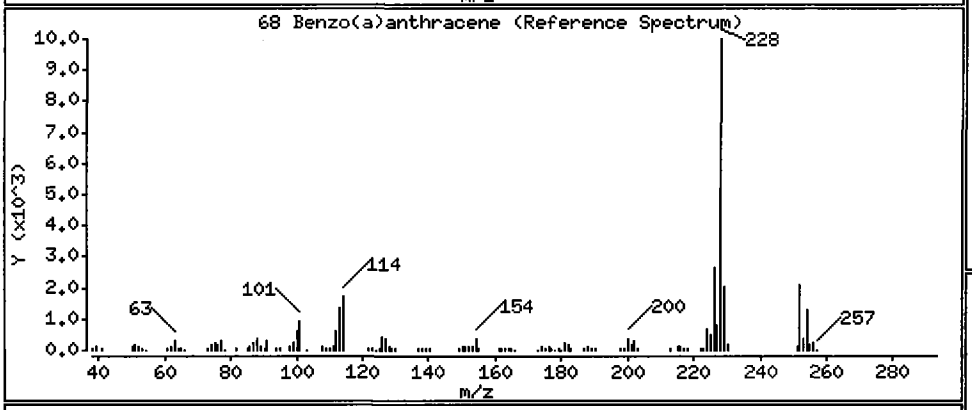
Volume Injected (uL): 1.0 Operator: LJR/VTS

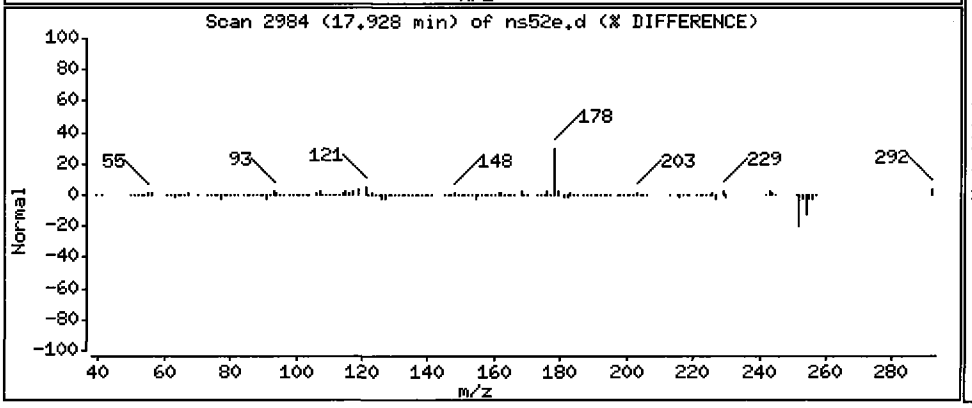
Column phase: ZB-5 Column diameter: 0.32

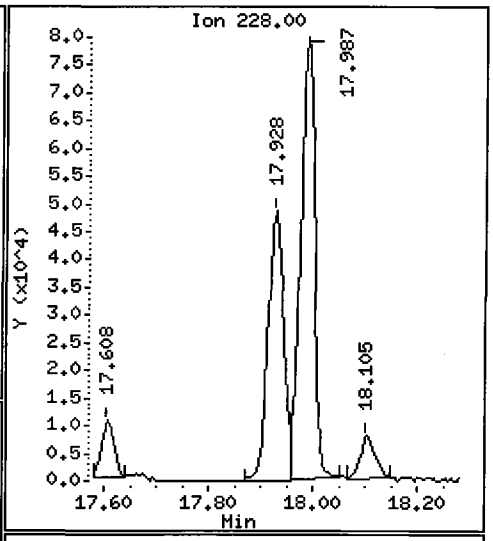
68 Benzo(a)anthracene Concentration: 86.08 ug/kg

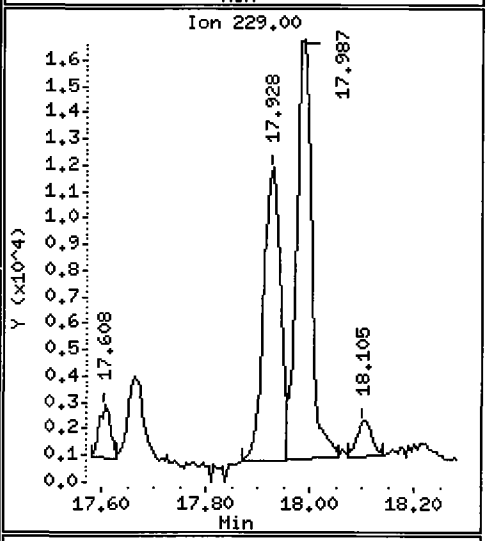


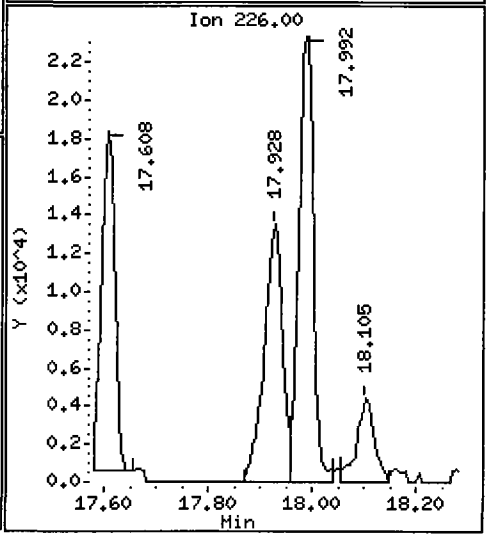












Data File: /chem1/nt6.i/20081008.b/ns52e.d

Date : 08-OCT-2008 22:17

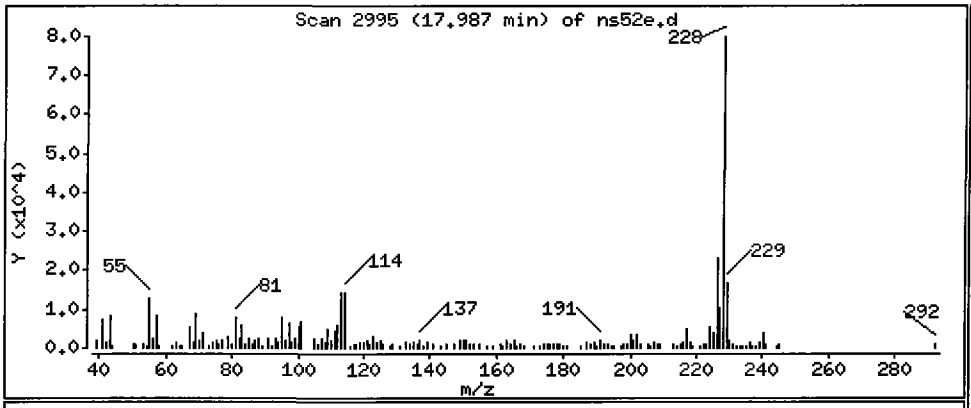
Client ID: EB-SE04-A-081003 Instrument: nt6.i

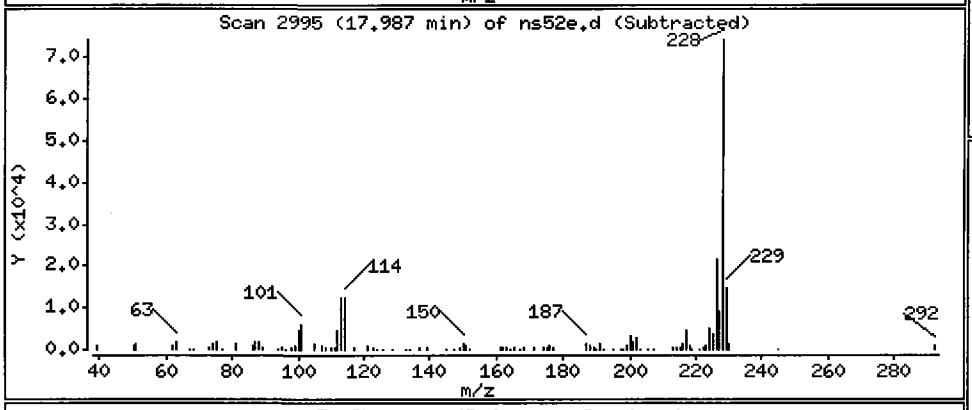
Sample Info: NS52E

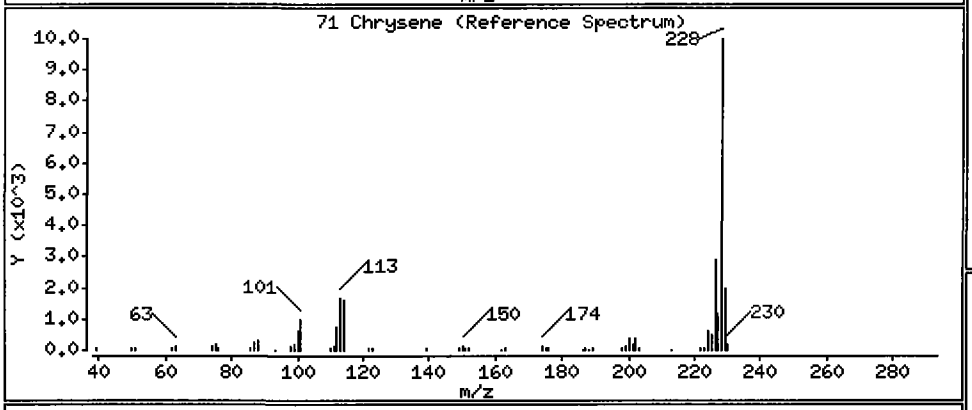
Volume Injected (uL): 1.0 Operator: LJR/VTS

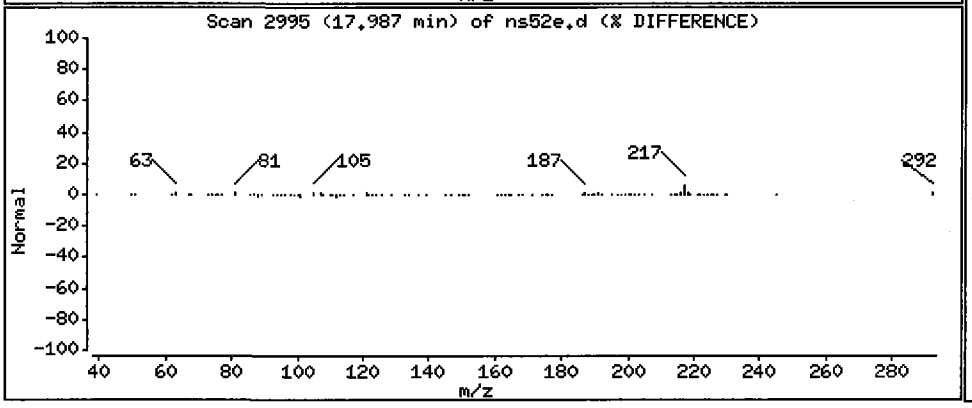
Column phase: ZB-5 Column diameter: 0.32

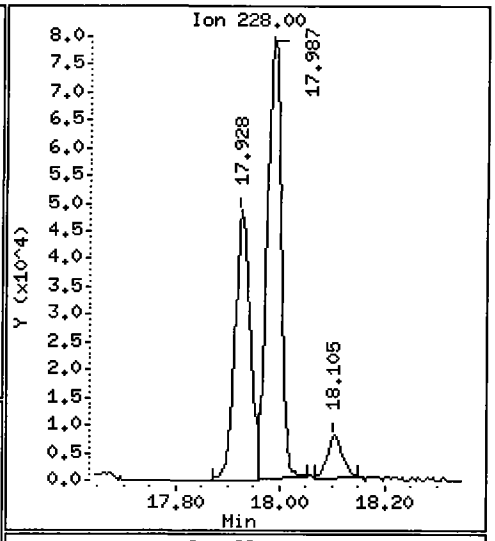
71 Chrysene Concentration: 121.5 ug/kg

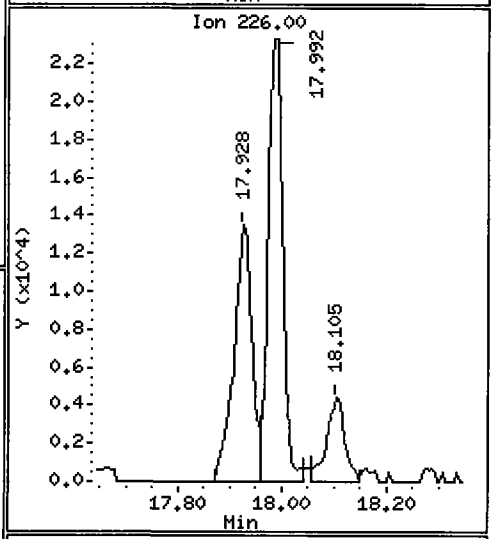


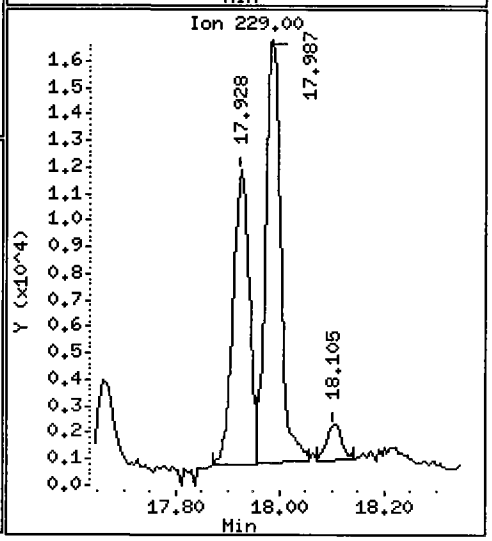












Data File: /chem1/nt6.i/20081008.b/ns52e.d

Date : 08-OCT-2008 22:17

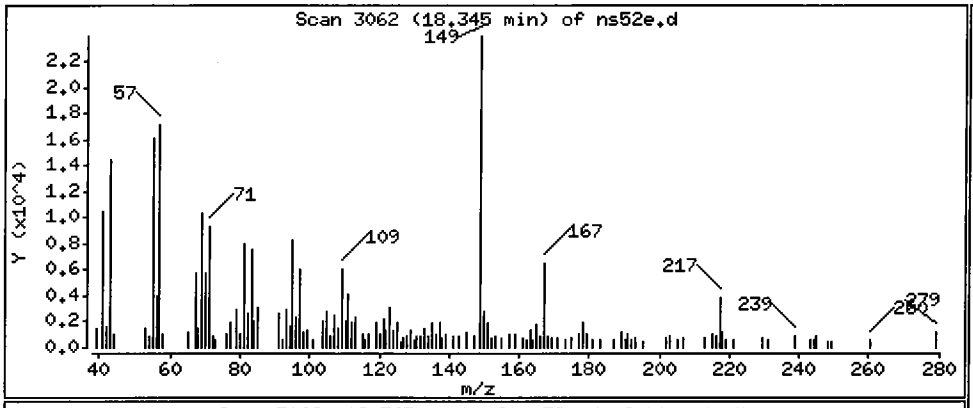
Client ID: EB-SE04-A-081003 Instrument: nt6.i

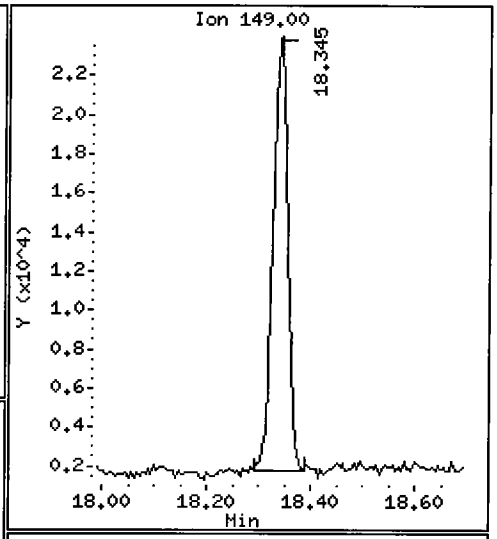
Sample Info: NS52E

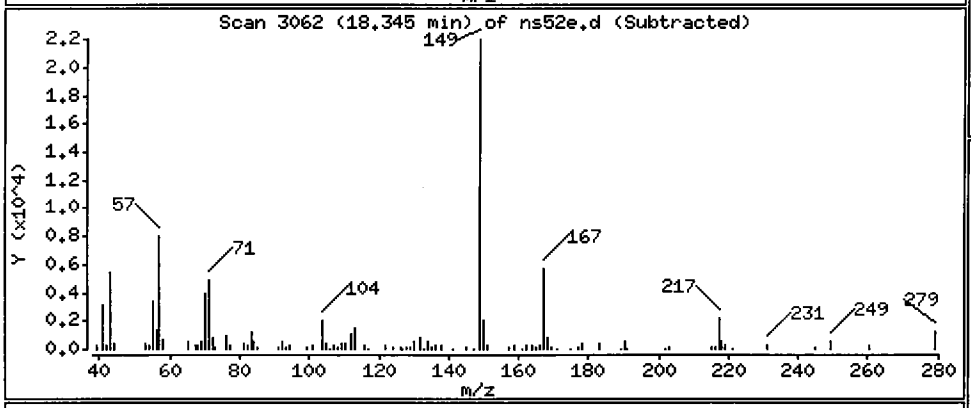
Volume Injected (uL): 1.0 Operator: LJR/VTS

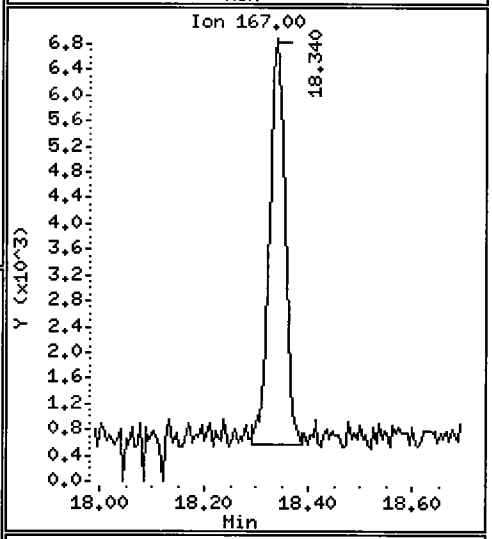
Column phase: ZB-5 Column diameter: 0.32

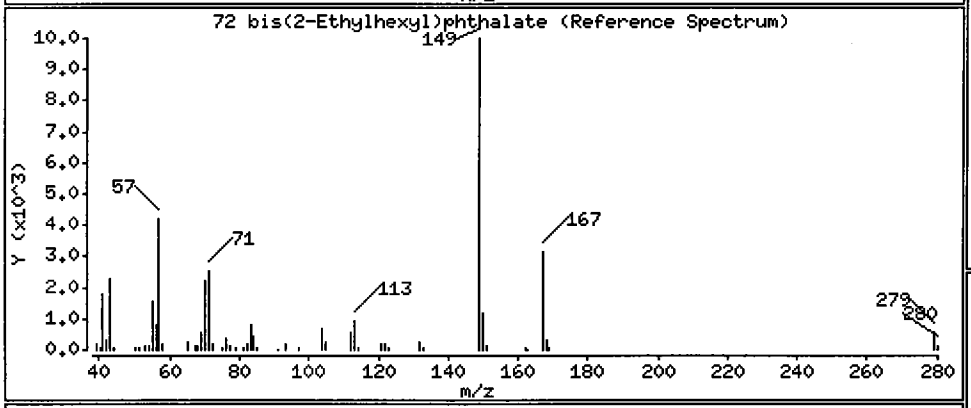
72 bis(2-Ethylhexyl)phthalate Concentration: 53.92 ug/kg

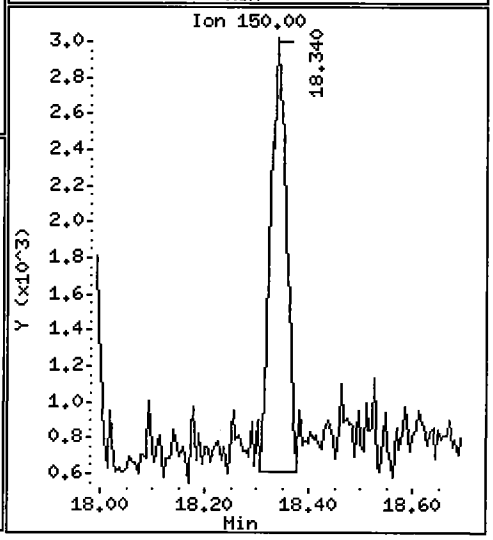


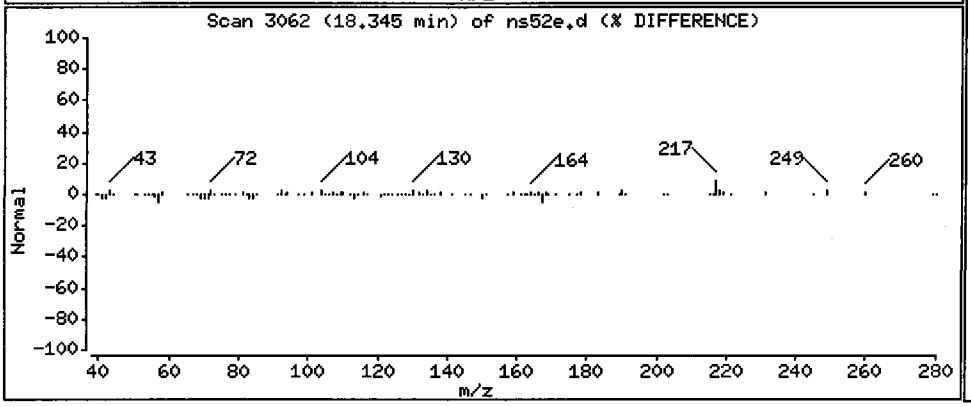












Data File: /chem1/nt6.i/20081008.b/ns52e.d

Date : 08-OCT-2008 22:17

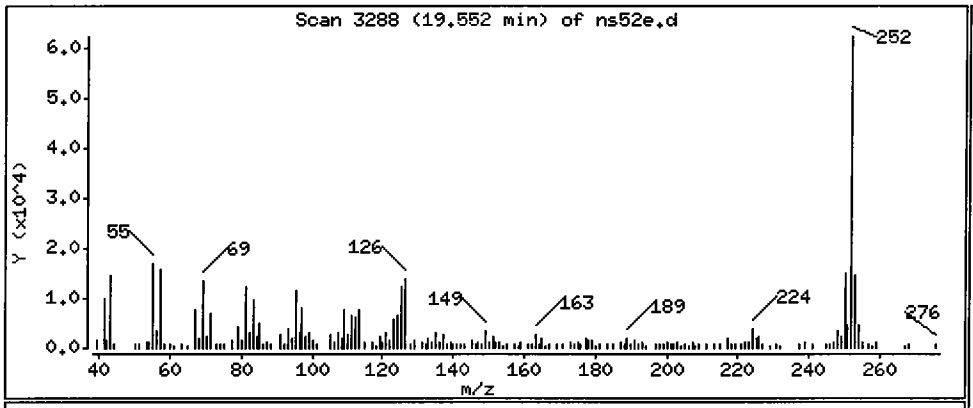
Client ID: EB-SE04-A-081003 Instrument: nt6.i

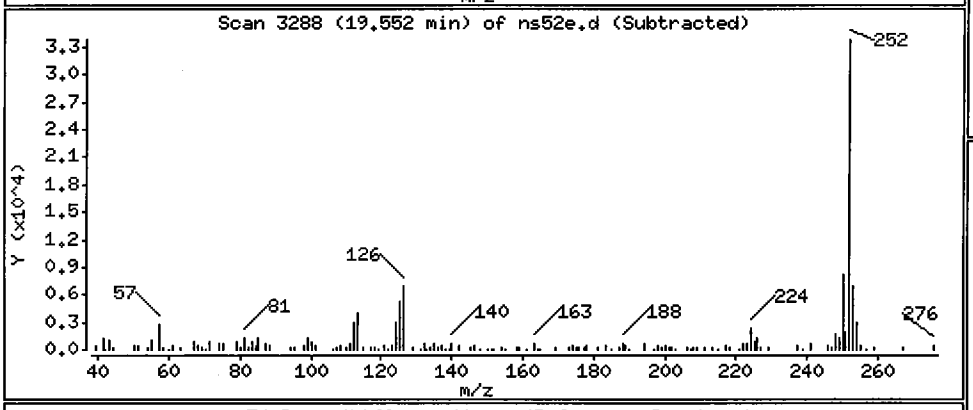
Sample Info: NS52E

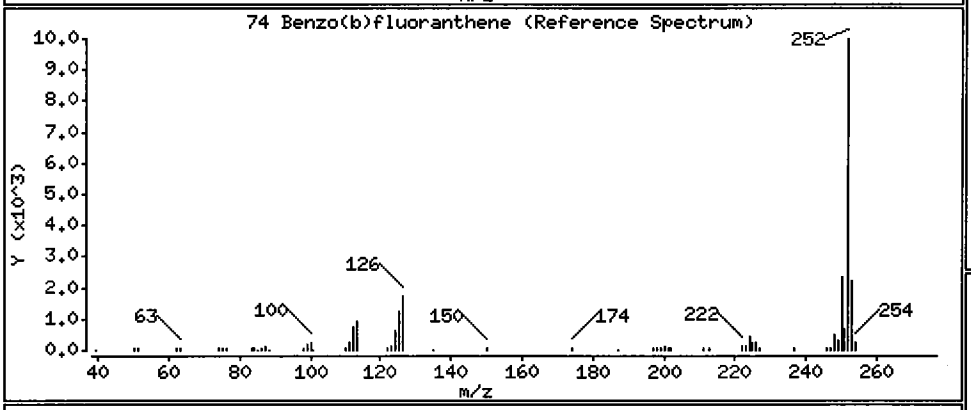
Volume Injected (uL): 1.0 Operator: LJR/VTS

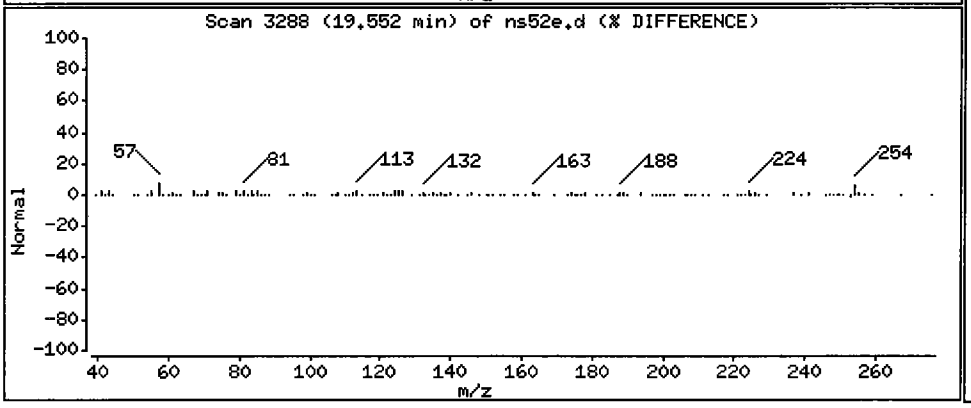
Column phase: ZB-5 Column diameter: 0.32

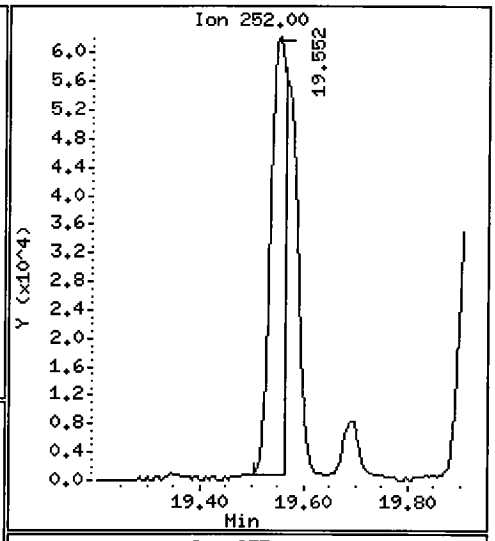
74 Benzo(b)fluoranthene Concentration: 124.9 ug/kg

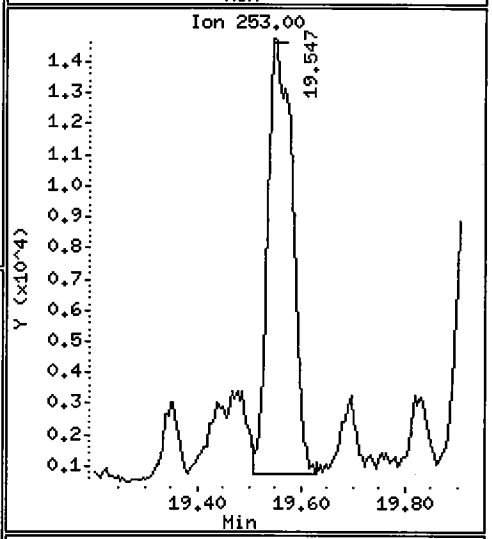


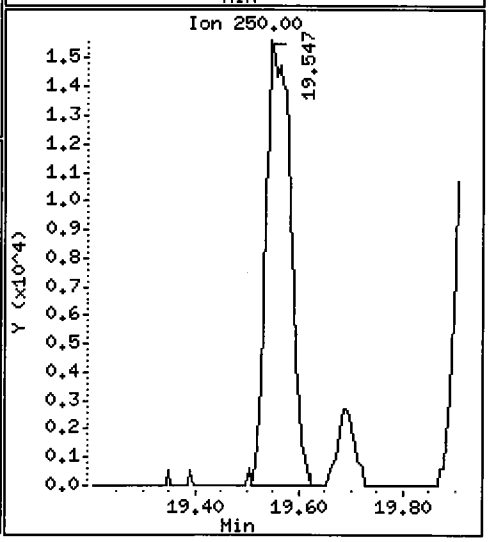












Data File: /chem1/nt6.i/20081008.b/ns52e.d

Date : 08-OCT-2008 22:17

Client ID: EB-SE04-A-081003

Instrument: nt6.i

Sample Info: NS52E

Volume Injected (uL): 1.0

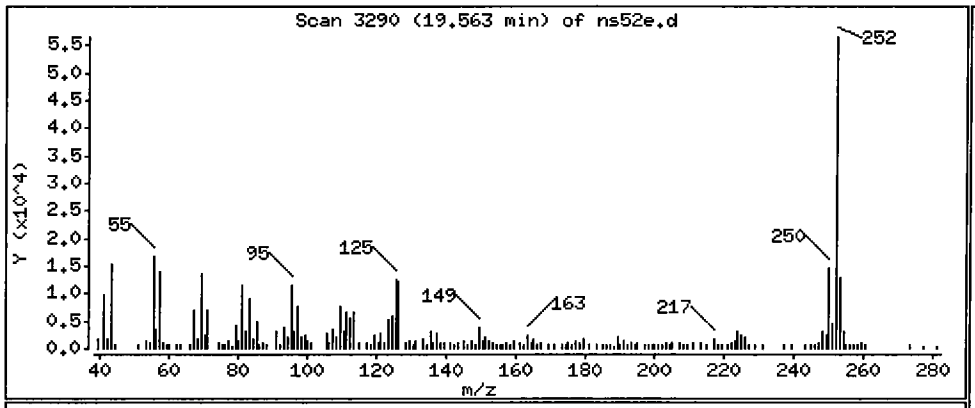
Operator: LJR/VTS

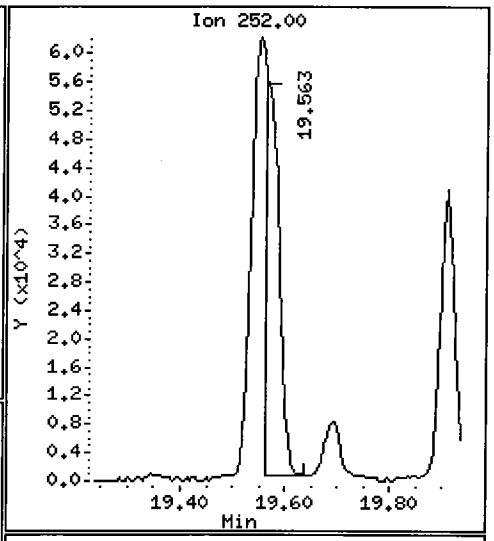
Column phase: ZB-5

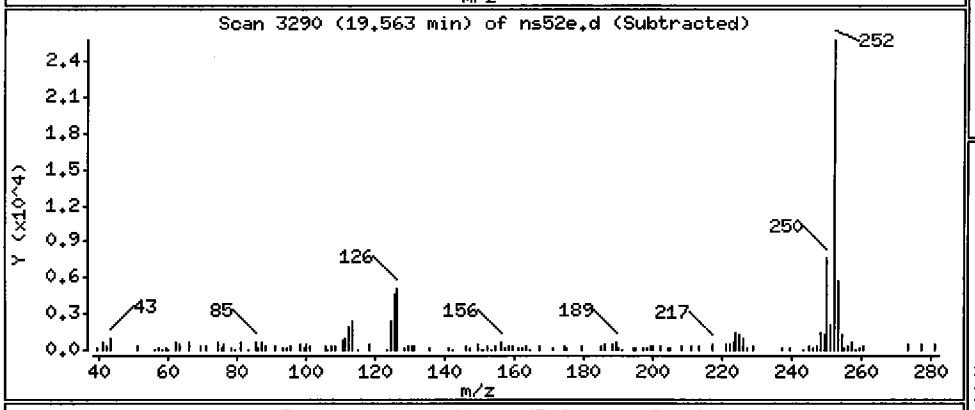
Column diameter: 0.32

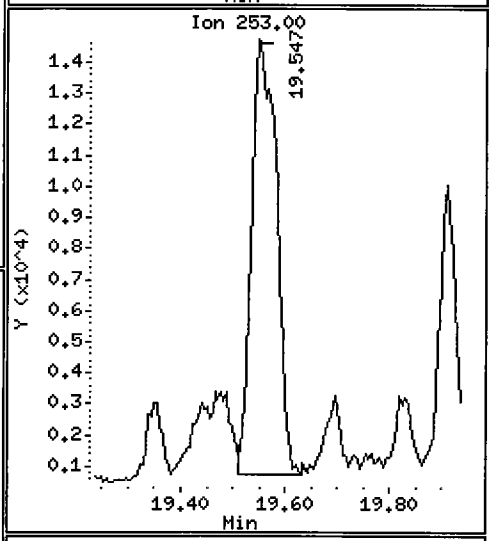
75 Benzo(k)fluoranthene

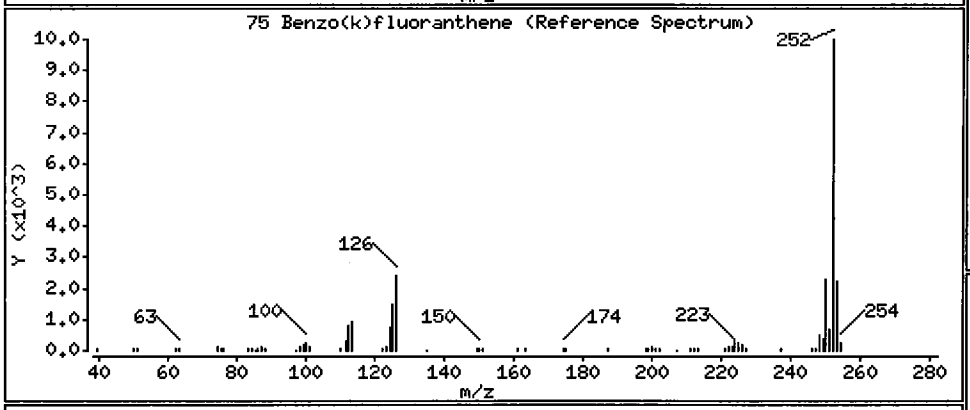
Concentration: 91.77 ug/kg

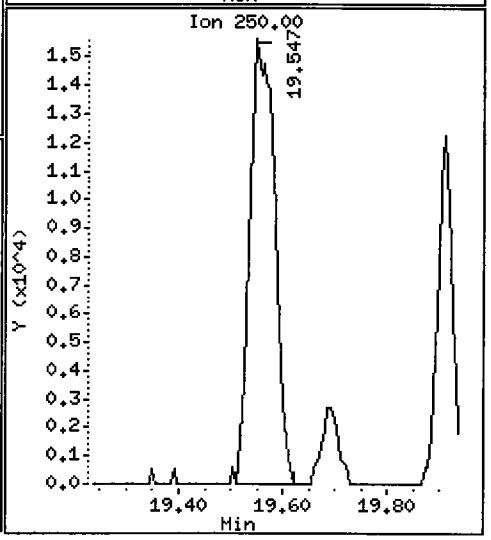


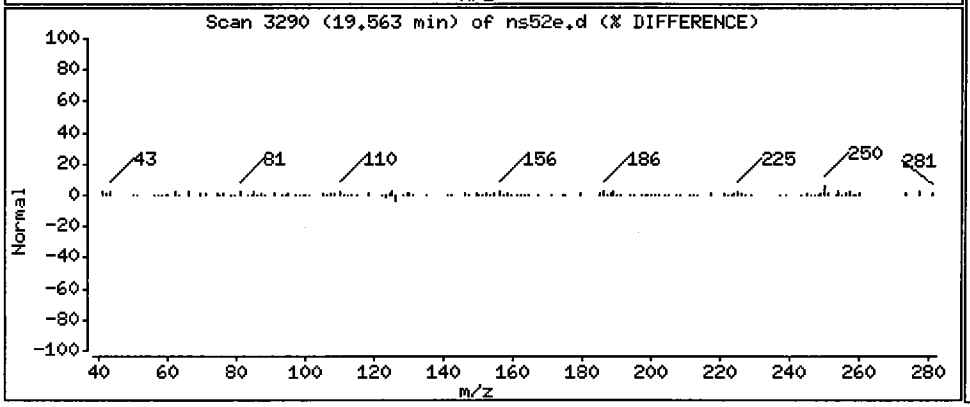












Data File: /chem1/nt6.i/20081008.b/ns52e.d

Date : 08-OCT-2008 22:17

Client ID: EB-SE04-A-081003

Instrument: nt6.i

Sample Info: NS52E

Volume Injected (uL): 1.0

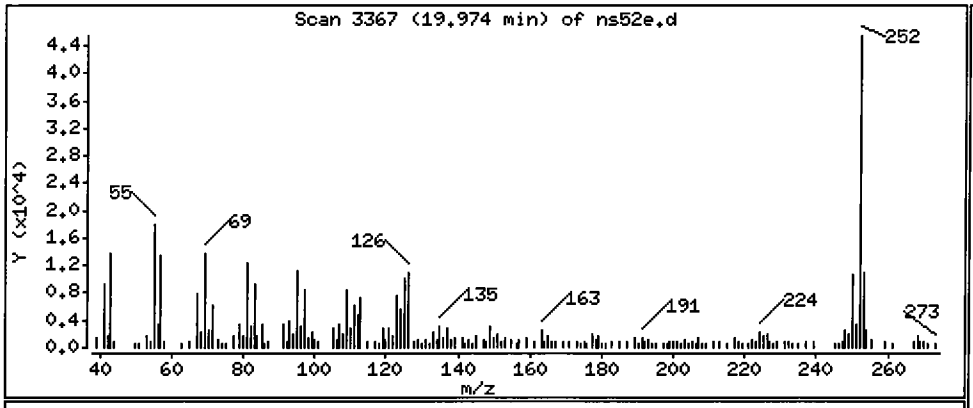
Operator: LJR/VTS

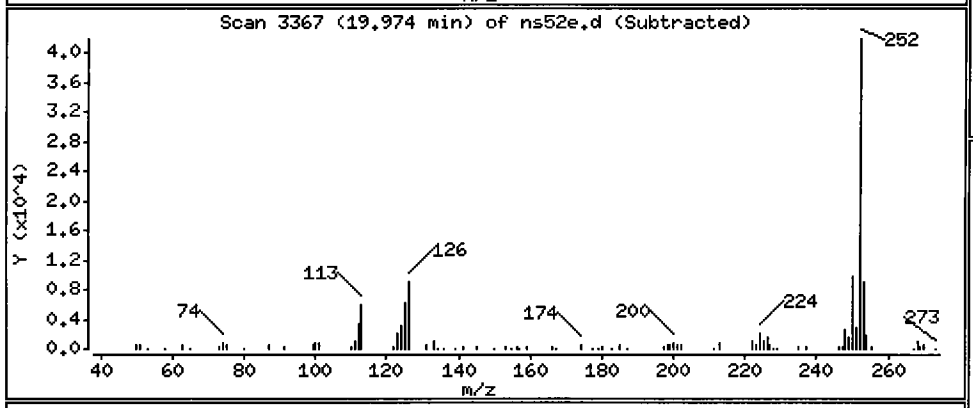
Column phase: ZB-5

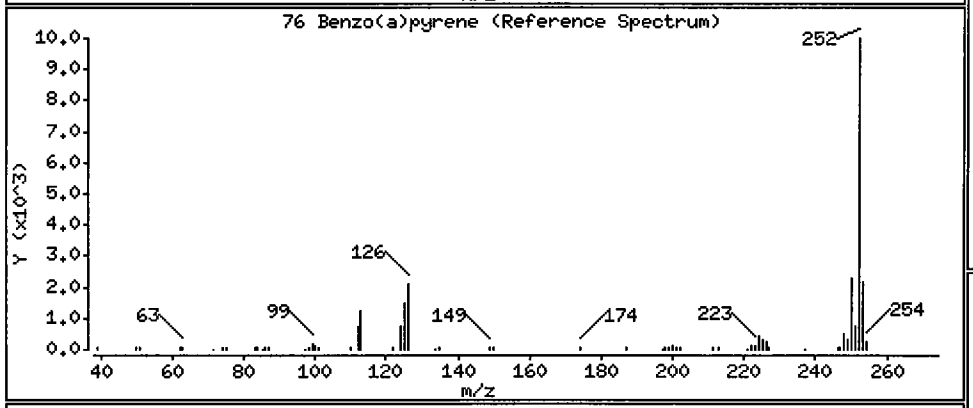
Column diameter: 0.32

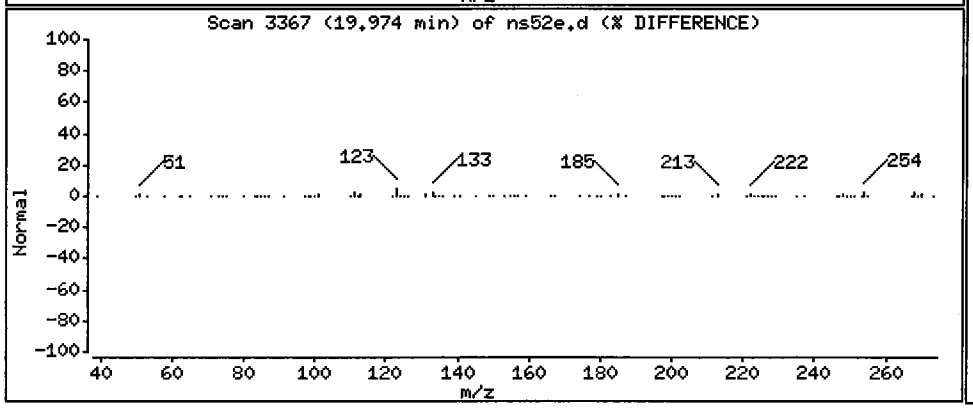
76 Benzo(a)pyrene

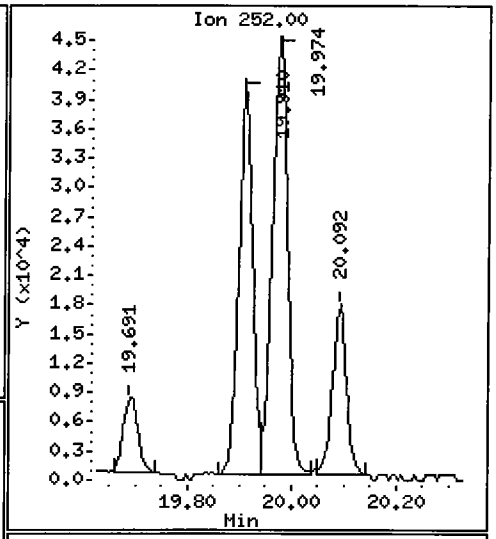
Concentration: 96.71 ug/kg

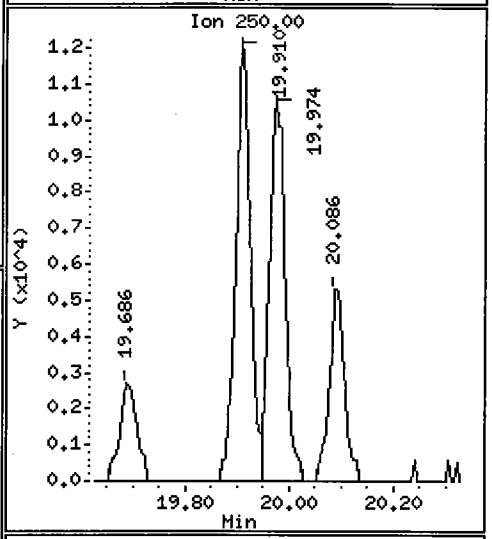


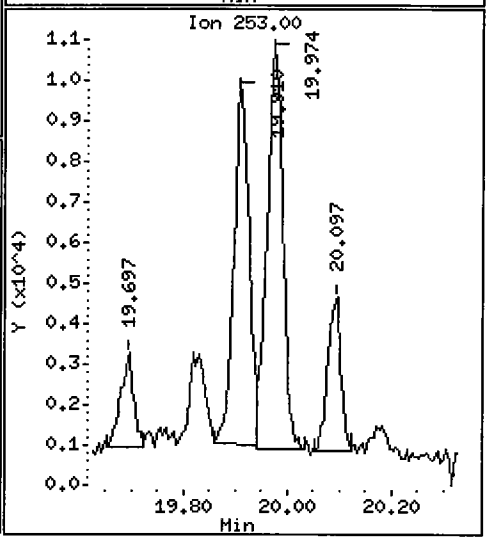












Data File: /chem1/nt6.i/20081008.b/ns52e.d

Date : 08-OCT-2008 22:17

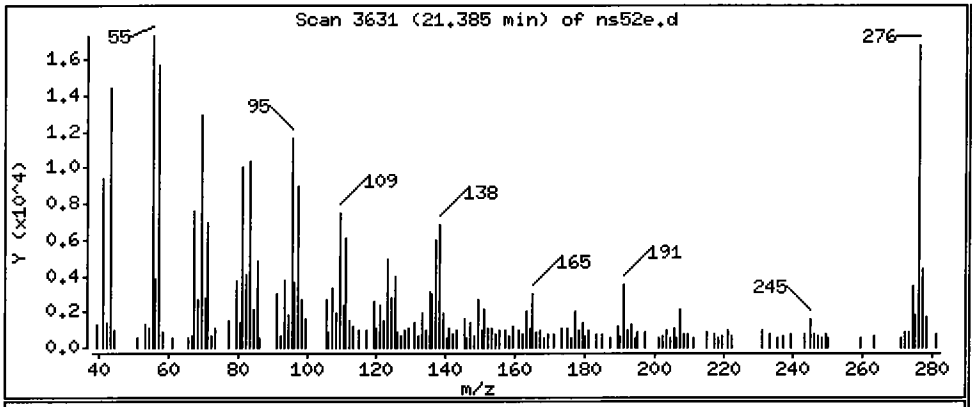
Client ID: EB-SE04-A-081003 Instrument: nt6.i

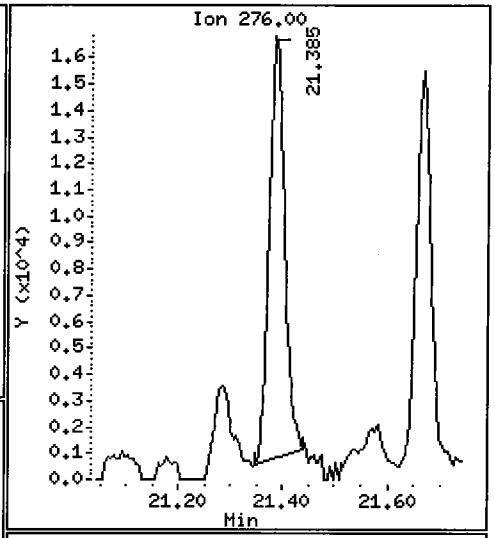
Sample Info: NS52E

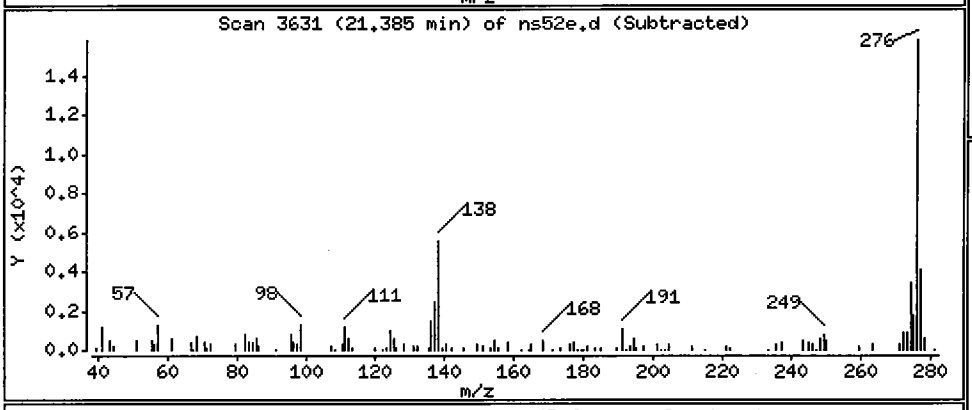
Volume Injected (uL): 1.0 Operator: LJR/VTS

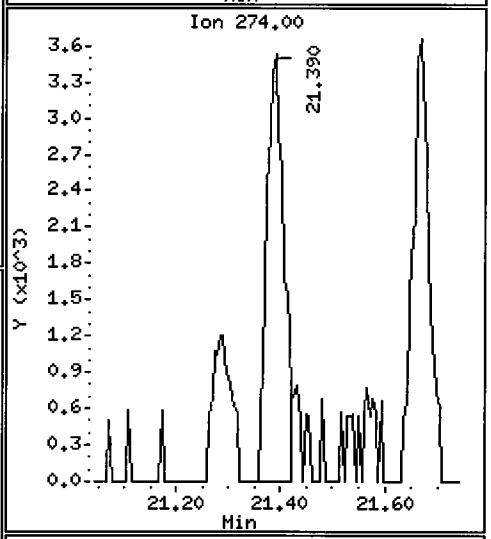
Column phase: ZB-5 Column diameter: 0.32

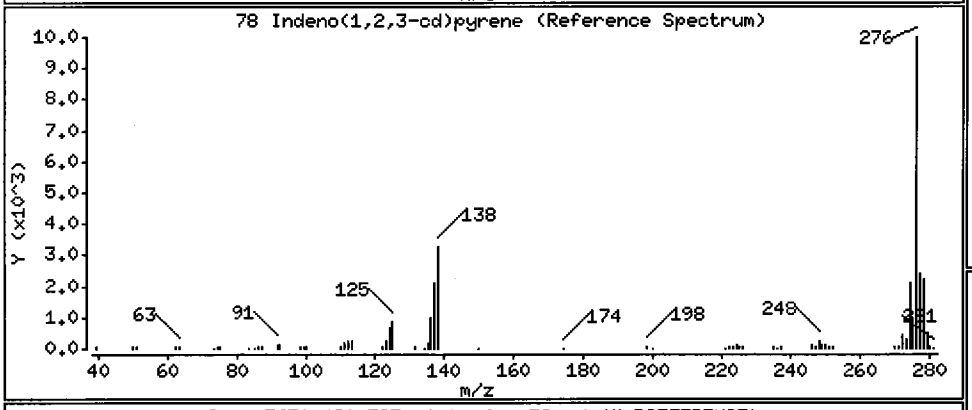
78 Indeno(1,2,3-cd)pyrene Concentration: 28.79 ug/kg

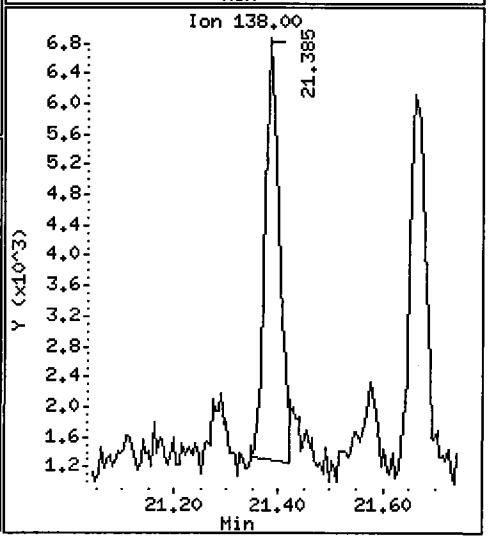


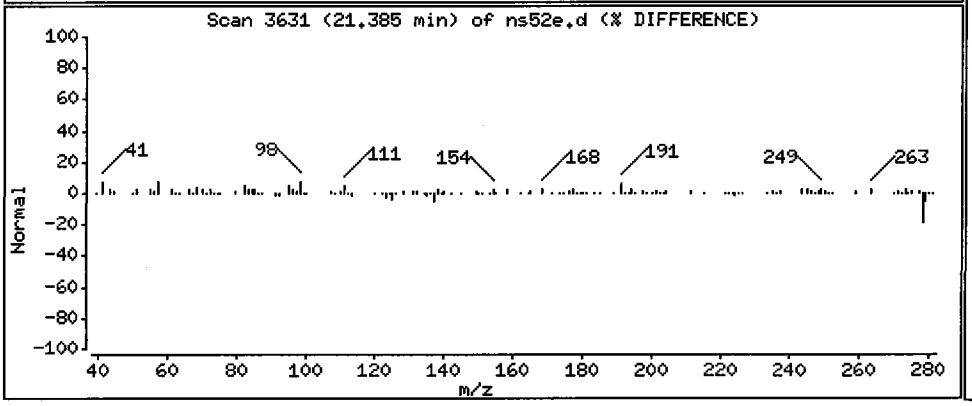












Data File: /chem1/nt6.i/20081008.b/ns52e.d

Date : 08-OCT-2008 22:17

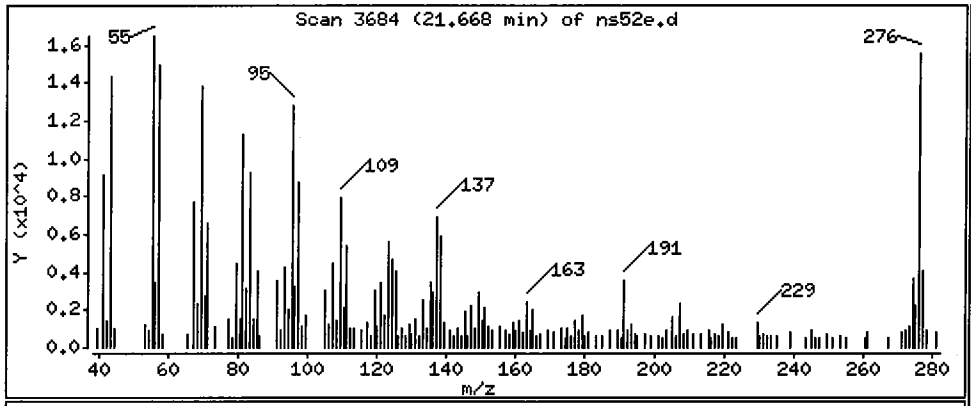
Client ID: EB-SE04-A-081003 Instrument: nt6.i

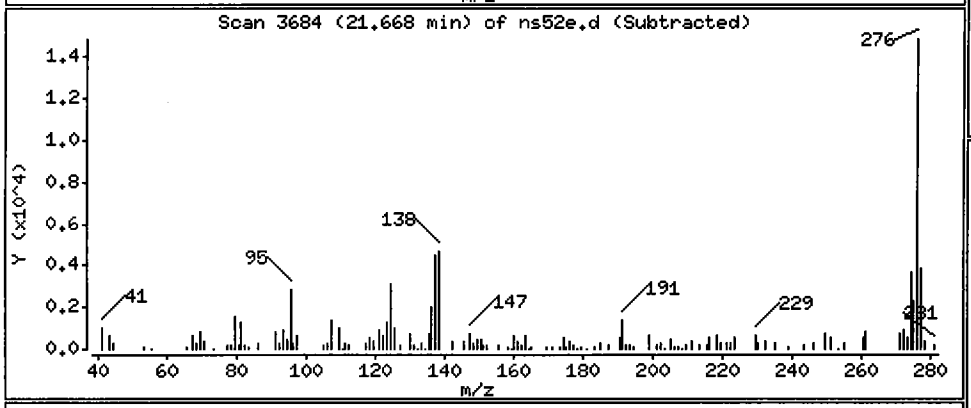
Sample Info: NS52E

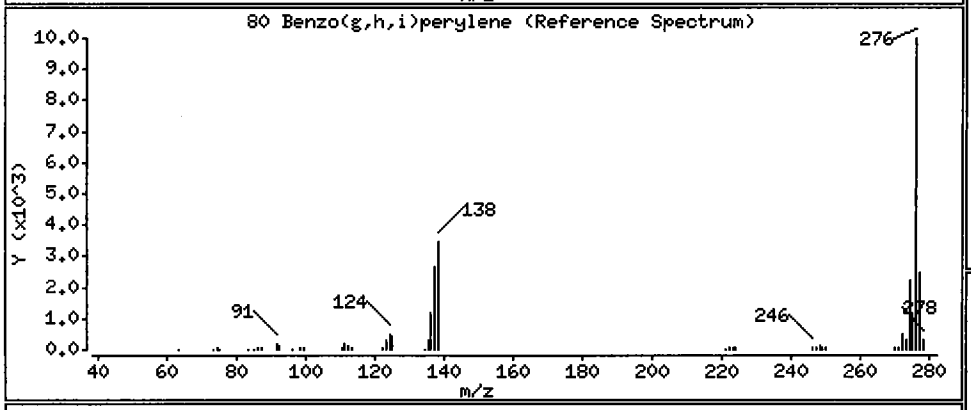
Volume Injected (uL): 1.0 Operator: LJR/VTS

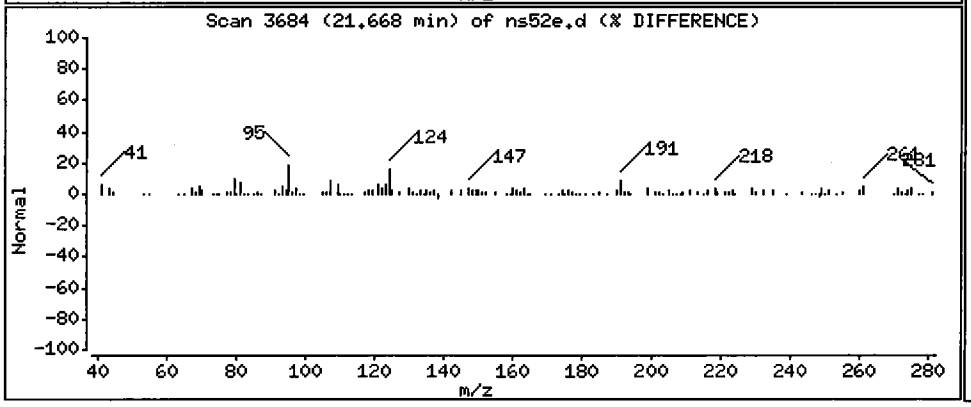
Column phase: ZB-5 Column diameter: 0.32

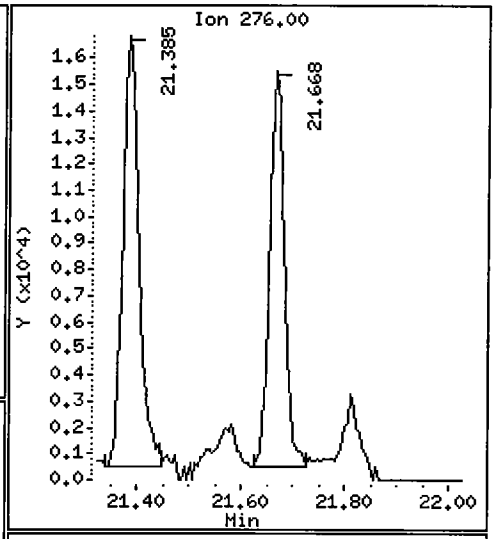
80 Benzo(g,h,i)perylene Concentration: 28.21 ug/kg

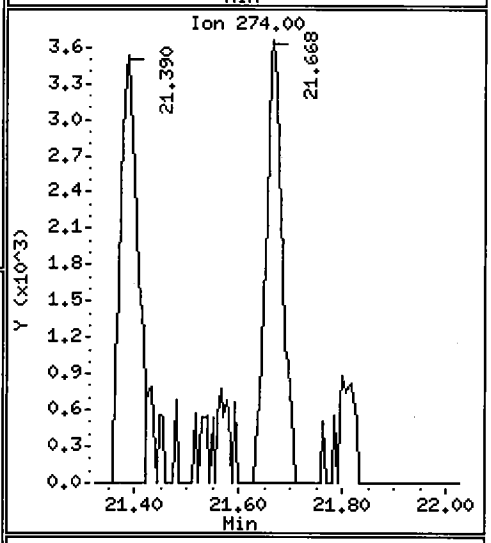


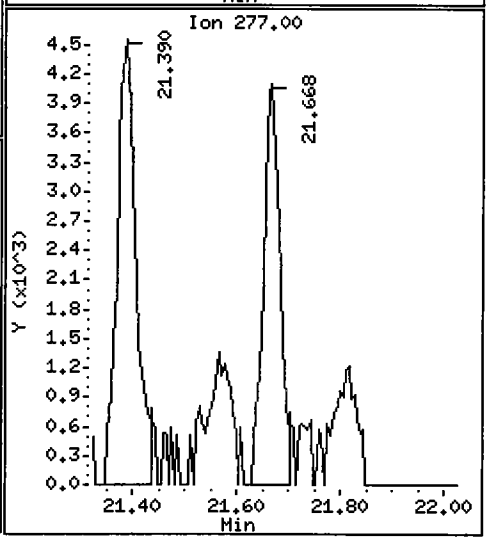












Semivolatile Organics
Standard Raw Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NOS: NS52

prepared
by

Analytical Resources, Inc.

SEMIVOLATILE 8270-C INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS52 Project: EDDON BOATYARD

Instrument ID: NT6 Calibration Date: 09/15/08

LAB FILE ID: RRF1 =0010915 RRF5 =0050915 RRF10 =0100915
RRF25 =0250915 RRF40 =0400915 RRF80 =0800915

COMPOUND	RRF 1	RRF 5	RRF 10	RRF 25	RRF 40	RRF 80	RRF	%RSD /R^2	
Phenol	2.945	2.988	2.872	2.396	2.189	2.002	2.565	0.999	*
Bis(2-Chloroethyl)ether	2.116	2.221	2.094	1.808	1.694	1.518	1.908	14.5	
2-Chlorophenol	1.766	1.862	1.778	1.511	1.398	1.295	1.602	14.5	
1,3-Dichlorobenzene	1.940	1.934	1.791	1.541	1.460	1.345	1.668	0.999	
1,4-Dichlorobenzene	1.924	1.933	1.770	1.537	1.430	1.304	1.650	0.999	*
1,2-Dichlorobenzene	1.854	1.821	1.677	1.434	1.334	1.180	1.550	0.999	
Benzyl alcohol	1.366	1.576	1.536	1.279	1.186	1.030	1.329	15.7	
2,2'-oxybis(1-Chloropropane)	3.421	3.461	3.237	2.913	2.689	2.480	3.034	13.3	
2-Methylphenol	1.786	1.941	1.863	1.633	1.516	1.425	1.694	12.0	
Hexachloroethane	0.778	0.830	0.794	0.701	0.669	0.607	0.730	11.6	
N-Nitroso-di-n-propylamine	1.362	1.542	1.447	1.295	1.236	1.182	1.344	10.0	~
4-Methylphenol	1.872	2.028	1.971	1.648	1.525	1.394	1.740	14.7	
Nitrobenzene	0.596	0.624	0.572	0.491	0.453	0.412	0.525	0.999	
Isophorone	0.954	1.031	0.956	0.839	0.785	0.781	0.891	11.7	
2-Nitrophenol		0.245	0.245	0.222	0.204	0.198	0.223	9.8	*
2,4-Dimethylphenol	0.475	0.526	0.508	0.429	0.393	0.371	0.450	13.9	
Bis(2-Chloroethoxy)methane	0.677	0.691	0.641	0.555	0.520	0.484	0.595	14.6	
2,4-Dichlorophenol		0.361	0.350	0.297	0.258	0.244	0.302	0.997	*
1,2,4-Trichlorobenzene	0.372	0.379	0.346	0.300	0.279	0.254	0.322	0.999	
Naphthalene	1.359	1.379	1.266	1.076	0.977	0.866	1.154	0.999	
Benzoic acid		0.374	0.386	0.377	0.357	0.378	0.374	2.8	
4-Chloroaniline		0.592	0.557	0.469	0.422	0.371	0.482	19.1	
Hexachlorobutadiene	0.193	0.204	0.184	0.158	0.148	0.134	0.170	0.999	*
4-Chloro-3-methylphenol		0.436	0.425	0.362	0.330	0.307	0.372	0.999	*
2-Methylnaphthalene	0.666	0.701	0.661	0.543	0.497	0.437	0.584	0.999	
Hexachlorocyclopentadiene		0.307	0.306	0.317	0.328	0.326	0.317	3.2	~
2,4,6-Trichlorophenol		0.467	0.457	0.403	0.380	0.374	0.416	10.4	*
2,4,5-Trichlorophenol		0.502	0.484	0.423	0.399	0.388	0.439	11.7	
2-Chloronaphthalene	1.532	1.587	1.454	1.255	1.186	1.121	1.356	14.3	
2-Nitroaniline		0.578	0.588	0.546	0.528	0.552	0.558	4.4	
Acenaphthylene	2.206	2.400	2.236	1.921	1.812	1.720	2.049	13.2	
Dimethylphthalate	1.506	1.613	1.523	1.326	1.260	1.280	1.418	10.4	
2,6-Dinitrotoluene		0.324	0.320	0.300	0.286	0.302	0.306	5.1	
Acenaphthene	1.514	1.552	1.427	1.220	1.156	1.115	1.331	14.3	*
3-Nitroaniline		0.441	0.432	0.359	0.308	0.272	0.362	20.5	
2,4-Dinitrophenol		0.148	0.162	0.186	0.186	0.184	0.173	9.9	~
Dibenzofuran	2.018	2.054	1.974	1.632	1.517	1.405	1.767	0.999	

* Compounds with maximum %RSD = 30%

~ Compounds with minimum average RRF = .05

<- Outside QC limits

SEMIVOLATILE 8270-C INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS52 Project: EDDON BOATYARD

Instrument ID: NT6 Calibration Date: 09/15/08

LAB FILE ID: RRF1 =0010915 RRF5 =0050915 RRF10 =0100915
RRF25 =0250915 RRF40 =0400915 RRF80 =0800915

COMPOUND	RRF 1	RRF 5	RRF 10	RRF 25	RRF 40	RRF 80	___ RRF	%RSD /R^2	
4-Nitrophenol		0.231	0.234	0.223	0.217	0.218	0.225	3.5	~
2,4-Dinitrotoluene		0.428	0.427	0.402	0.391	0.408	0.411	3.9	
Fluorene	1.666	1.734	1.577	1.329	1.216	1.108	1.438	0.999	
4-Chlorophenyl-phenylether	0.720	0.718	0.674	0.564	0.526	0.481	0.614	0.999	
Diethylphthalate	1.577	1.694	1.590	1.367	1.294	1.266	1.465	12.2	
4-Nitroaniline		0.410	0.429	0.388	0.371	0.396	0.399	5.6	
4,6-Dinitro-2-methylphenol		0.166	0.168	0.165	0.158	0.156	0.163	3.3	
N-Nitrosodiphenylamine (1)	0.561	0.613	0.569	0.492	0.470	0.444	0.525	12.5	
4-Bromophenyl-phenylether	0.268	0.297	0.275	0.241	0.226	0.206	0.252	13.4	
Hexachlorobenzene	0.312	0.306	0.282	0.241	0.223	0.206	0.262	0.999	
Pentachlorophenol		0.205	0.195	0.173	0.164	0.155	0.178	11.8	*
Phenanthrene	1.619	1.636	1.514	1.263	1.160	1.058	1.375	0.999	
Anthracene	1.593	1.666	1.507	1.262	1.157	1.051	1.373	0.999	
Carbazole	1.385	1.492	1.380	1.151	1.074	0.994	1.246	0.999	
Di-n-butylphthalate	1.510	1.862	1.741	1.518	1.430	1.287	1.558	13.5	
Fluoranthene	1.467	1.562	1.413	1.199	1.123	0.997	1.294	0.999	*
Pyrene	1.926	1.892	1.923	1.589	1.302	1.278	1.652	0.995	
Butylbenzylphthalate	0.611	0.806	0.799	0.783	0.741	0.715	0.742	9.9	
Benzo(a)anthracene	1.627	1.704	1.552	1.351	1.217	1.140	1.432	0.999	
3,3'-Dichlorobenzidine		0.571	0.516	0.448	0.399	0.327	0.452	21.2	
Chrysene	1.663	1.744	1.594	1.376	1.268	1.202	1.474	0.999	
bis(2-Ethylhexyl)phthalate	0.397	0.568	0.629	0.583	0.574	0.582	0.556	14.5	
Di-n-octylphthalate	1.080	1.242	1.220	1.129	1.086	1.098	1.142	6.2	*
Benzo(b)fluoranthene	1.573	1.744	1.420	1.196	1.176	1.072	1.364	0.999	
Benzo(k)fluoranthene	1.675	1.663	1.564	1.311	1.144	1.010	1.394	0.999	
Benzo(a)pyrene	1.394	1.531	1.363	1.184	1.083	0.990	1.258	0.999	*
Indeno(1,2,3-cd)pyrene	1.668	1.791	1.756	1.442	1.259	1.188	1.517	0.997	
Dibenzo(a,h)anthracene	1.407	1.513	1.474	1.203	1.025	0.928	1.258	0.997	
Benzo(g,h,i)perylene	1.547	1.583	1.589	1.348	1.178	1.120	1.394	0.998	
N-Nitrosodimethylamine		1.392	1.355	1.236	1.184	1.192	1.272	7.5	
Aniline		3.328	3.067	2.597	2.294	2.173	2.692	18.4	
Benzidine		0.772	0.625	0.609	0.413	0.449	0.574	25.3	
Pyridine		2.171	2.163	2.028	1.904	1.815	2.016	7.8	
1-methylnaphthalene	0.689	0.704	0.639	0.546	0.499	0.451	0.588	0.999	
Azobenzene (1,2-DP-Hydrazine	2.145	2.264	2.142	1.865	1.747	1.720	1.980	11.7	
2-Fluorophenol		1.818	1.794	1.563	1.463	1.387	1.605	12.1	

(1) Cannot be seperated from Diphenylamine
* Compounds with maximum %RSD = 30%
~ Compounds with minimum average RRF = .05
<- Outside QC limits

SEMIVOLATILE 8270-C INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS52 Project: EDDON BOATYARD

Instrument ID: NT6 Calibration Date: 09/15/08

LAB FILE ID: RRF1 =0010915 RRF5 =0050915 RRF10 =0100915
RRF25 =0250915 RRF40 =0400915 RRF80 =0800915

COMPOUND	RRF 1	RRF 5	RRF 10	RRF 25	RRF 40	RRF 80	___ RRF	%RSD /R^2
Phenol-d5	2.522	2.598	2.491	2.057	1.896	1.748	2.219	0.999
2-Chlorophenol-d4	1.558	1.592	1.484	1.255	1.160	1.058	1.351	0.999
1,2-Dichlorobenzene-d4	1.088	1.094	1.033	0.838	0.756	0.643	0.909	0.999
Nitrobenzene-d5		0.580	0.558	0.489	0.458	0.439	0.505	12.3
2-Fluorobiphenyl	1.700	1.725	1.600	1.337	1.263	1.212	1.473	0.999
2,4,6-Tribromophenol		0.201	0.196	0.168	0.162	0.162	0.178	10.7
Terphenyl-d14	1.148	1.120	1.177	0.962	0.805	0.780	0.999	0.996

* Compounds with maximum %RSD = 30%
~ Compounds with minimum average RRF = .05
<- Outside QC limits

FORM VI SV-3

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-SEP-2008 11:35
End Cal Date : 15-SEP-2008 14:30
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20080915.b/SW846.m
Cal Date : 15-Sep-2008 15:09 jeff
Curve Type : Average

Calibration File Names:
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Level 2: /chem1/nt6.i/20080915.b/0050915.d
Level 3: /chem1/nt6.i/20080915.b/0100915.d
Level 4: /chem1/nt6.i/20080915.b/0250915.d
Level 5: /chem1/nt6.i/20080915.b/0400915.d
Level 6: /chem1/nt6.i/20080915.b/0800915.d

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	RRF	% RSD	
179 n-Decane	2.79234	2.85748	2.75813	2.41248	2.24144	2.10125	2.52718	12.625	
180 n-Octadecane	0.99749	1.18945	1.13115	0.97855	0.91051	0.83276	1.00665	13.274	
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
170 N,N-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
171 2,3-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
172 2,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
173 2,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
174 2,6-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
175 3,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
176 3,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
177 p-Benzoquinone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
168 Pentachlorobenzene	0.51675	0.55021	0.50745	0.43650	0.41160	0.39207	0.46909	13.691	
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
147 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
148 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
149 TCMX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
150 DCBP	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-SEP-2008 11:35
End Cal Date : 15-SEP-2008 14:30
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20080915.b/SW846.m
Cal Date : 15-Sep-2008 15:09 jeff
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	RRF	% RSD	
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
142 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
135 2,3,5,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
136 2,3,4,5-tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
133 Butylatedhydroxytoluene	0.90934	0.98694	0.92979	0.84962	0.77558	0.67902	0.85505	13.155	
132 3,6-Dimethylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
144 alpha-Terpineol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
123 Acetophenone	2.40356	2.43182	2.35564	2.16636	1.98933	1.91246	2.20986	10.058	
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
143 1,4-Dioxane	0.88137	0.95675	0.93137	0.84131	0.80260	0.78244	0.86597	8.060	
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
120 2,3,4,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
178 2-Benzyl-4-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
119 7,12-Dimethylbenz(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
118 Triphenyl Phosphate	0.14945	0.23546	0.22908	0.23505	0.22319	0.21875	0.21516	15.270	QvAD
117 Butyl Diphenyl Phosphate	0.25338	0.34573	0.37886	0.37611	0.32386	0.32272	0.33345	13.841	
116 Dibutyl Phenyl Phosphate	0.39593	0.64871	0.63650	0.63416	0.60481	0.57471	0.58247	16.348	QvAD
115 Tributyl Phosphate	0.92846	1.30779	1.38644	1.29659	1.23977	1.19841	1.22624	12.991	
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-SEP-2008 11:35
End Cal Date : 15-SEP-2008 14:30
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20080915.b/SW846.m
Cal Date : 15-Sep-2008 15:09 jeff
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	RRF	% RSD	
111 Azobenzene (1,2-DP-Hydrazine)	2.14479	2.26458	2.14187	1.86507	1.74715	1.72032	1.98063	11.715	
110 Tetrachloroguaiacol	0.13076	0.14456	0.14208	0.12251	0.11164	0.10215	0.12562	13.379	
109 3,4,5-Trichloroguaiacol	0.12219	0.16728	0.17387	0.15753	0.14787	0.13646	0.15086	12.860	
181 3,4,6-Trichloroguaiacol	0.24539	0.37654	0.39872	0.36538	0.33404	0.32118	0.34021	15.975	QUAD
108 4,5,6-Trichloroguaiacol	0.15545	0.19984	0.21081	0.19403	0.18310	0.18597	0.18820	10.038	
184 3,4-Dichloroguaiacol	0.32284	0.41481	0.44947	0.39827	0.37111	0.35773	0.38570	11.605	
107 4,5-Dichloroguaiacol	0.32116	0.34615	0.36535	0.33736	0.32570	0.35622	0.34199	5.042	
182 4,6-Dichloroguaiacol	0.38468	0.52794	0.52745	0.45695	0.40581	0.32966	0.43875	18.251	QUAD
185 4-Chloroguaiacol	0.44258	0.63638	0.67375	0.64878	0.61463	0.61020	0.60439	13.669	
106 Guaiacol	1.08765	1.11802	1.13588	0.98841	0.90978	0.80799	1.00796	12.923	
105 1-methylnaphthalene	0.68933	0.70416	0.63911	0.54633	0.49936	0.45092	0.58820	17.791	QUAD
151 1,2,4,5-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
156 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
157 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
158 Ethion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
159 4-Nonylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
160 Tetraethyl Tin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
161 1,2,3-Trichloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
162 1,2,3,4-Tetrachloronapthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
163 1,2,3,5,8-Pentachloronaphthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
164 1,2,3,4,6,7-Hexachloronaphtha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
165 1,2,3,4,5,6,7-Heptachloronaph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
166 Octachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
167 2,2',4,4',5-Pentabromobipheny	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
3 Phenol	2.94481	2.98815	2.87193	2.39587	2.18890	2.00150	2.56519	16.586	QUAD

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : /chem1/nt6.i/20080915.b/SW846.m
Cal Date : 15-Sep-2008 15:09 jeff
Curve Type : Average

	Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	___ RRF	% RSD	
4	Bis(2-Chloroethyl)ether	2.11604	2.22133	2.09436	1.80750	1.69412	1.51847	1.90864	14.515	
6	2-Chlorophenol	1.76607	1.86172	1.77759	1.51062	1.39803	1.29469	1.60145	14.500	
7	1,3-Dichlorobenzene	1.93977	1.93381	1.79067	1.54102	1.46048	1.34515	1.66848	15.233	QUAD
9	1,4-Dichlorobenzene	1.92370	1.93334	1.76970	1.53706	1.43030	1.30436	1.64974	16.038	QUAD
11	Benzyl alcohol	1.36654	1.57558	1.53552	1.27872	1.18644	1.02986	1.32878	15.685	PP
12	1,2-Dichlorobenzene	1.85368	1.82139	1.67682	1.43411	1.33366	1.18038	1.55001	17.758	QUAD
13	2-Methylphenol	1.78608	1.94068	1.86305	1.63304	1.51633	1.42488	1.69401	11.971	
14	2,2'-oxybis(1-Chloropropane)	3.42119	3.46116	3.23671	2.91306	2.68935	2.48043	3.03365	13.295	
15	4-Methylphenol	1.87156	2.02860	1.97111	1.64766	1.52468	1.39436	1.73966	14.731	
16	N-Nitroso-di-n-propylamine	1.36199	1.54194	1.44717	1.29461	1.23659	1.18205	1.34406	10.001	
17	Hexachloroethane	0.77800	0.82982	0.79400	0.70136	0.66930	0.60688	0.72989	11.630	
19	Nitrobenzene	0.59616	0.62422	0.57243	0.49098	0.45311	0.41217	0.52484	16.215	QUAD
20	Isophorone	0.95376	1.03107	0.95654	0.83941	0.78488	0.78088	0.89109	11.652	
21	2-Nitrophenol	+++++	0.24502	0.24484	0.22209	0.20414	0.19832	0.22288	9.849	
22	2,4-Dimethylphenol	0.47507	0.52556	0.50848	0.42881	0.39313	0.37107	0.45035	13.927	
23	Bis(2-Chloroethoxy)methane	0.67745	0.69060	0.64080	0.55539	0.51994	0.48432	0.59475	14.559	
24	Benzoic acid	+++++	0.37362	0.38629	0.37661	0.35737	0.37853	0.37449	2.844	
25	2,4-Dichlorophenol	+++++	0.36099	0.35032	0.29676	0.25800	0.24373	0.30196	17.503	QUAD
26	1,2,4-Trichlorobenzene	0.37168	0.37927	0.34623	0.30022	0.27893	0.25361	0.32165	16.059	QUAD
28	Naphthalene	1.35897	1.37945	1.26579	1.07581	0.97719	0.86649	1.15395	18.398	QUAD
29	4-Chloroaniline	+++++	0.59247	0.55673	0.46896	0.42204	0.37142	0.48232	19.053	PP
30	Hexachlorobutadiene	0.19328	0.20456	0.18430	0.15827	0.14784	0.13372	0.17033	16.365	QUAD
31	4-Chloro-3-methylphenol	+++++	0.43660	0.42540	0.36250	0.33009	0.30664	0.37224	15.399	QUAD
32	2-Methylnaphthalene	0.66577	0.70140	0.66103	0.54273	0.49686	0.43750	0.58422	18.302	QUAD
33	Hexachlorocyclopentadiene	+++++	0.30734	0.30642	0.31667	0.32854	0.32579	0.31695	3.217	
34	2,4,6-Trichlorophenol	+++++	0.46681	0.45727	0.40297	0.38030	0.37356	0.41618	10.426	
35	2,4,5-Trichlorophenol	+++++	0.50227	0.48446	0.42348	0.39864	0.38832	0.43943	11.663	
37	2-Chloronaphthalene	1.53211	1.58723	1.45423	1.25480	1.18567	1.12101	1.35584	14.325	
38	2-Nitroaniline	+++++	0.57788	0.58825	0.54558	0.52831	0.55250	0.55850	4.363	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-SEP-2008 11:35
End Cal Date : 15-SEP-2008 14:30
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20080915.b/SW846.m
Cal Date : 15-Sep-2008 15:09 jeff
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	RRF	% RSD	
39 Dimethylphthalate	1.50621	1.61264	1.52306	1.32610	1.26058	1.28016	1.41813	10.408	
40 Acenaphthylene	2.20563	2.40032	2.23570	1.92109	1.81251	1.71989	2.04919	13.156	
41 2,6-Dinitrotoluene	+++++	0.32439	0.32026	0.30014	0.28650	0.30213	0.30668	5.075	
43 3-Nitroaniline	+++++	0.44089	0.43195	0.35908	0.30830	0.27229	0.36250	20.484	PP
44 Acenaphthene	1.51390	1.55217	1.42678	1.21955	1.15567	1.11460	1.33045	14.322	
45 2,4-Dinitrophenol	+++++	0.14840	0.16192	0.18607	0.18576	0.18398	0.17322	9.922	
46 Dibenzofuran	2.01790	2.05453	1.97417	1.63211	1.51696	1.40507	1.76679	16.014	Q,V,A,D
47 4-Nitrophenol	+++++	0.23066	0.23451	0.22291	0.21669	0.21820	0.22459	3.458	
48 2,4-Dinitrotoluene	+++++	0.42818	0.42677	0.40254	0.39073	0.40755	0.41115	3.918	
49 Fluorene	1.66571	1.73420	1.57682	1.32898	1.21612	1.10840	1.43837	17.823	Q,V,A,D
50 Diethylphthalate	1.57698	1.69371	1.58961	1.36736	1.29428	1.26609	1.46467	12.160	
51 4-Chlorophenyl-phenylether	0.72037	0.71797	0.67437	0.56359	0.52625	0.48095	0.61392	16.883	Q,V,A,D
52 4-Nitroaniline	+++++	0.41010	0.42898	0.38756	0.37075	0.39574	0.39863	5.554	
53 4,6-Dinitro-2-methylphenol	+++++	0.16621	0.16826	0.16547	0.15836	0.15576	0.16281	3.332	
54 N-Nitrosodiphenylamine	0.56063	0.61288	0.56906	0.49244	0.47021	0.44375	0.52483	12.522	
56 4-Bromophenyl-phenylether	0.26846	0.29690	0.27526	0.24148	0.22612	0.20602	0.25237	13.404	
57 Hexachlorobenzene	0.31237	0.30603	0.28240	0.24070	0.22350	0.20572	0.26179	17.080	Q,V,A,D
58 Pentachlorophenol	+++++	0.20539	0.19481	0.17340	0.16353	0.15546	0.17852	11.785	
60 Phenanthrene	1.61894	1.63551	1.51392	1.26266	1.16048	1.05779	1.37488	17.991	Q,V,A,D
61 Anthracene	1.59310	1.66626	1.50705	1.26154	1.15698	1.05097	1.37265	18.292	Q,V,A,D
62 Carbazole	1.38534	1.49197	1.37982	1.15073	1.07359	0.99353	1.24583	16.068	Q,V,A,D
63 Di-n-butylphthalate	1.50959	1.86256	1.74106	1.51758	1.43021	1.28741	1.55807	13.457	
64 Fluoranthene	1.46684	1.56231	1.41336	1.19935	1.12332	0.99663	1.29363	17.028	Q,V,A,D
65 Pyrene	1.92629	1.89256	1.92323	1.58929	1.30166	1.27765	1.65178	18.630	Q,V,A,D
67 Butylbenzylphthalate	0.61131	0.80628	0.79936	0.78336	0.74091	0.71468	0.74265	9.888	
68 Benzo(a)anthracene	1.62725	1.70449	1.55205	1.35105	1.21746	1.14048	1.43213	16.055	Q,V,A,D
70 3,3'-Dichlorobenzidine	+++++	0.57139	0.51611	0.44851	0.39923	0.32725	0.45250	21.175	PP
71 Chrysene	1.66344	1.74363	1.59423	1.37566	1.26846	1.20254	1.47466	15.122	Q,V,A,D
72 bis(2-Ethylhexyl)phthalate	0.39708	0.56776	0.62886	0.58286	0.57359	0.58207	0.55537	14.497	

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Method file : /chem1/nt6.i/20080915.b/SW846.m
Cal Date : 15-Sep-2008 15:09 jeff
Curve Type : Average

	Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	RRF	% RSD	
73	Di-n-octylphthalate	1.08050	1.24251	1.21960	1.12908	1.08560	1.09809	1.14256	6.211	
74	Benzo(b)fluoranthene	1.57276	1.74366	1.42054	1.19594	1.17558	1.07223	1.36345	19.120	QUAD
75	Benzo(k)fluoranthene	1.67476	1.66289	1.56410	1.31099	1.14393	1.00960	1.39438	20.215	QUAD
76	Benzo(a)pyrene	1.39412	1.53121	1.36279	1.18375	1.08283	0.99008	1.25746	16.380	QUAD
78	Indeno(1,2,3-cd)pyrene	1.66774	1.79132	1.75648	1.44154	1.25895	1.18822	1.51738	17.077	QUAD
79	Dibenzo(a,h)anthracene	1.40721	1.51285	1.47410	1.20284	1.02477	0.92852	1.25838	19.462	QUAD
80	Benzo(g,h,i)perylene	1.54747	1.58346	1.58898	1.34796	1.17771	1.12000	1.39426	15.094	QUAD
90	N-Nitrosodimethylamine	+++++	1.39190	1.35483	1.23587	1.18351	1.19225	1.27167	7.535	
91	Aniline	+++++	3.32777	3.06712	2.59661	2.29459	2.17331	2.69188	18.397	
92	1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
93	Benzidine	+++++	0.77179	0.62523	0.60907	0.41309	0.44947	0.57373	25.314	PP
96	p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
97	Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
98	Retene	0.64427	0.68181	0.72554	0.63589	0.51791	0.51507	0.62008	13.916	
99	Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
100	3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
101	Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
102	beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
103	Pyridine	+++++	2.17139	2.16323	2.02806	1.90373	1.81494	2.01627	7.803	
$ 1	2-Fluorophenol	+++++	1.81832	1.79424	1.56338	1.46276	1.38714	1.60517	12.094	
$ 137	d8-1,4-Dioxane	+++++	0.89622	0.90621	0.80606	0.77379	0.75036	0.82653	8.600	
$ 2	Phenol-d5	+++++	2.59855	2.49082	2.05676	1.89654	1.74836	2.15820	17.201	QUAD + low pt
$ 5	2-Chlorophenol-d4	+++++	1.59248	1.48395	1.25496	1.16055	1.05810	1.31001	17.021	QUAD + low pt
$ 10	1,2-Dichlorobenzene-d4	+++++	1.09444	1.03311	0.83779	0.75578	0.64318	0.87286	21.621	QUAD + low pt
$ 18	Nitrobenzene-d5	+++++	0.58027	0.55853	0.48894	0.45790	0.43928	0.50498	12.258	
$ 36	2-Fluorobiphenyl	+++++	1.72504	1.60042	1.33709	1.26270	1.21212	1.42747	15.671	QUAD + low pt
$ 55	2,4,6-Tribromophenol	+++++	0.20081	0.19613	0.16816	0.16245	0.16161	0.17783	10.731	
$ 66	Terphenyl-d14	+++++	1.12035	1.17704	0.96200	0.80541	0.77999	0.96896	18.514	QUAD + low pt

Analytical Resources, Inc.

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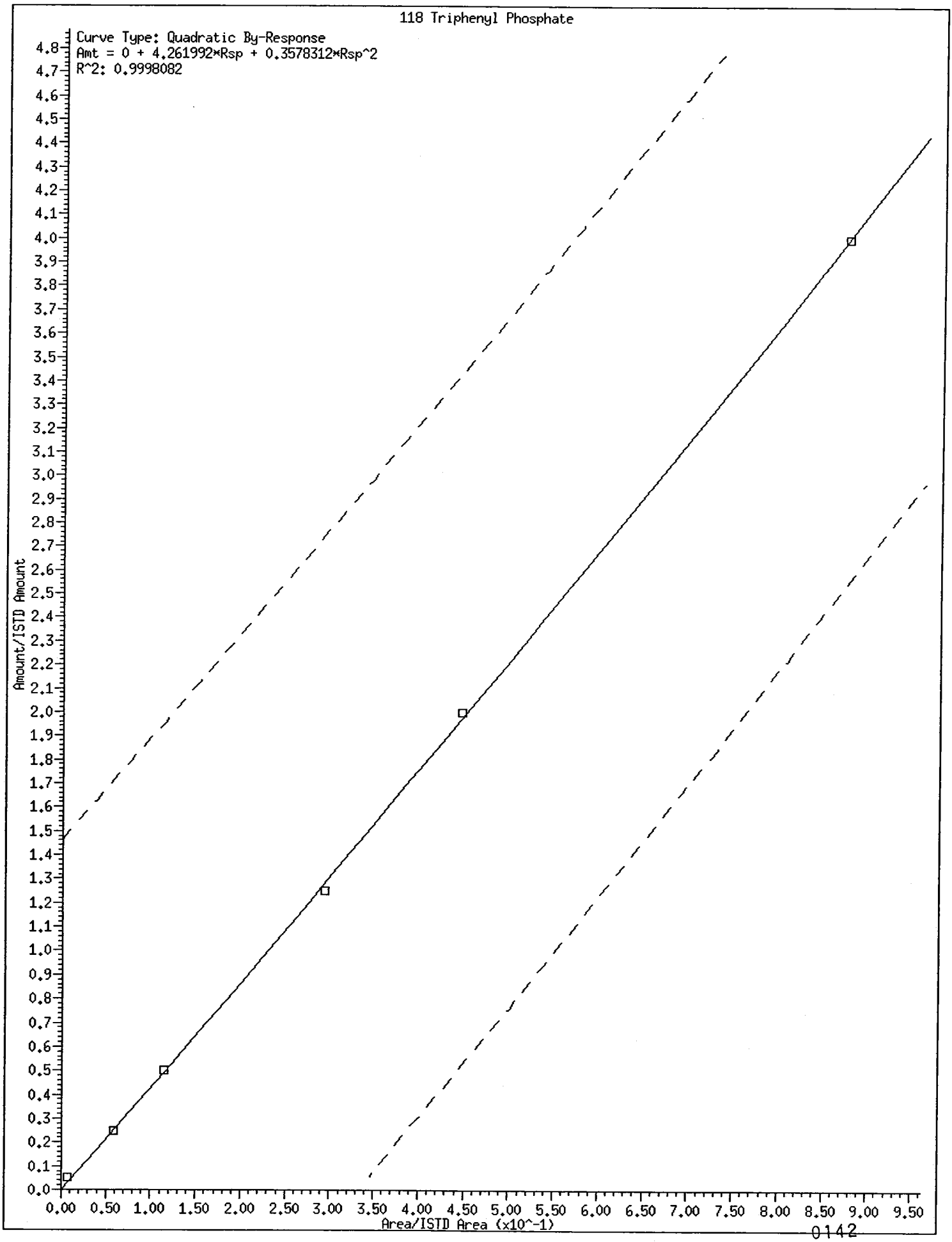
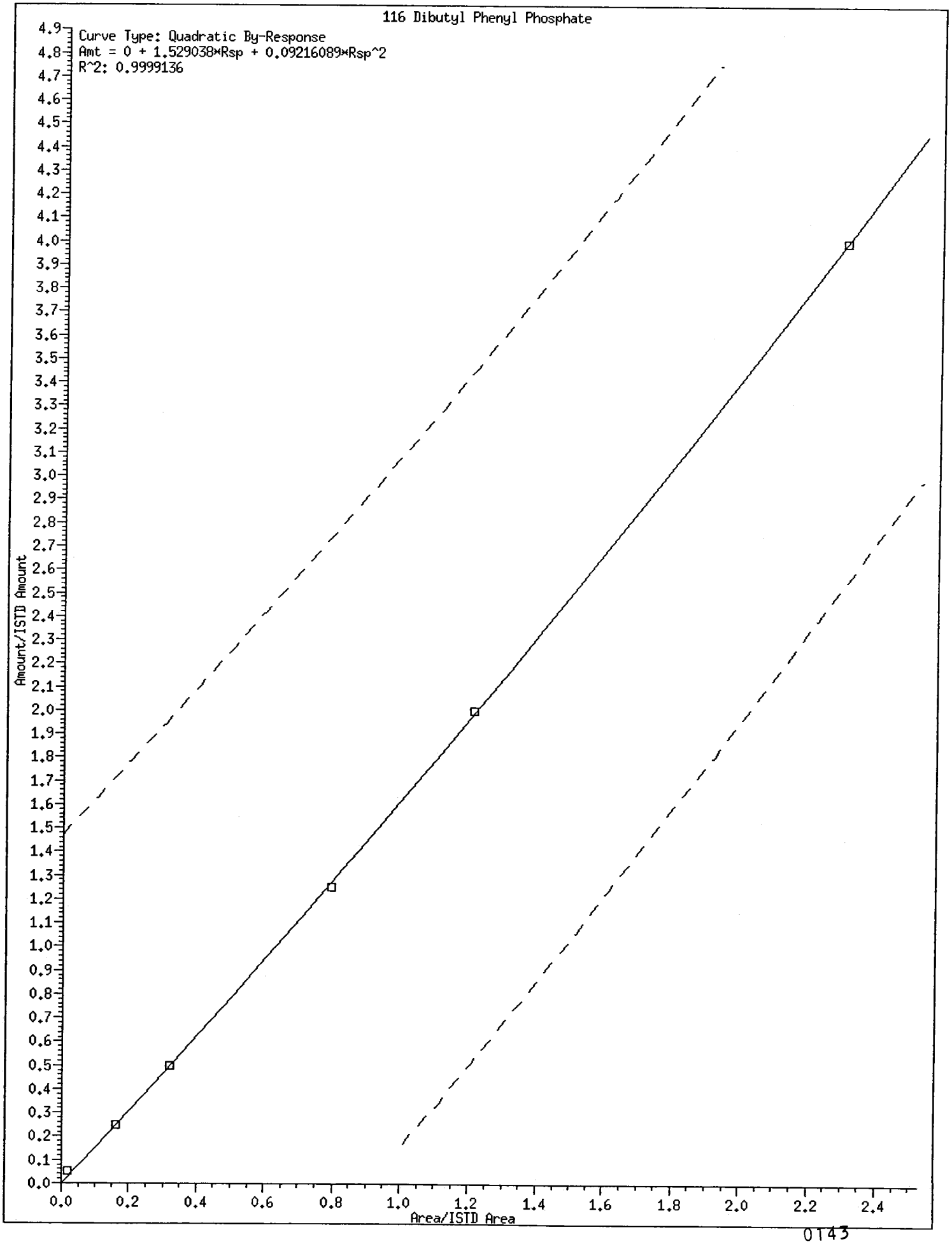
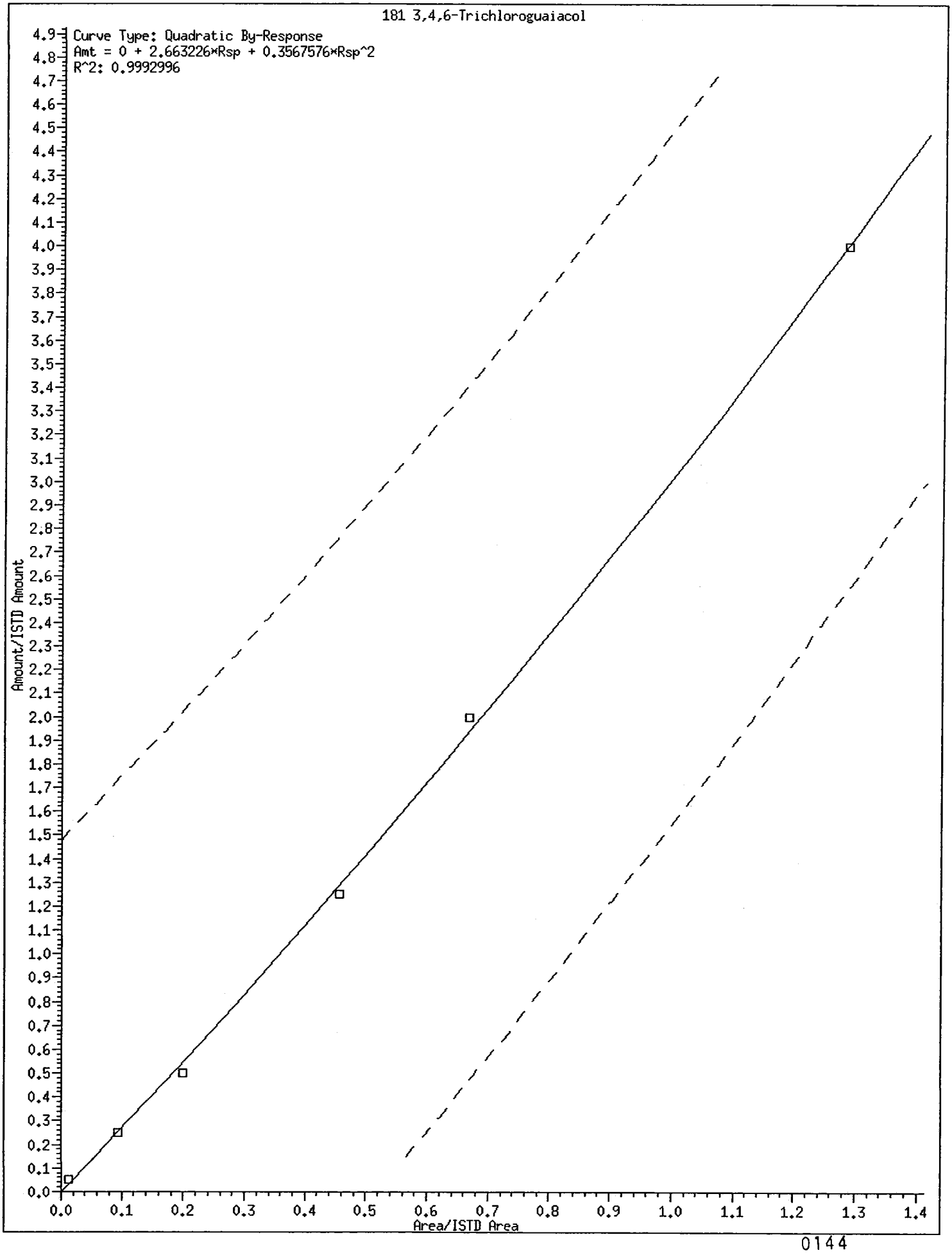
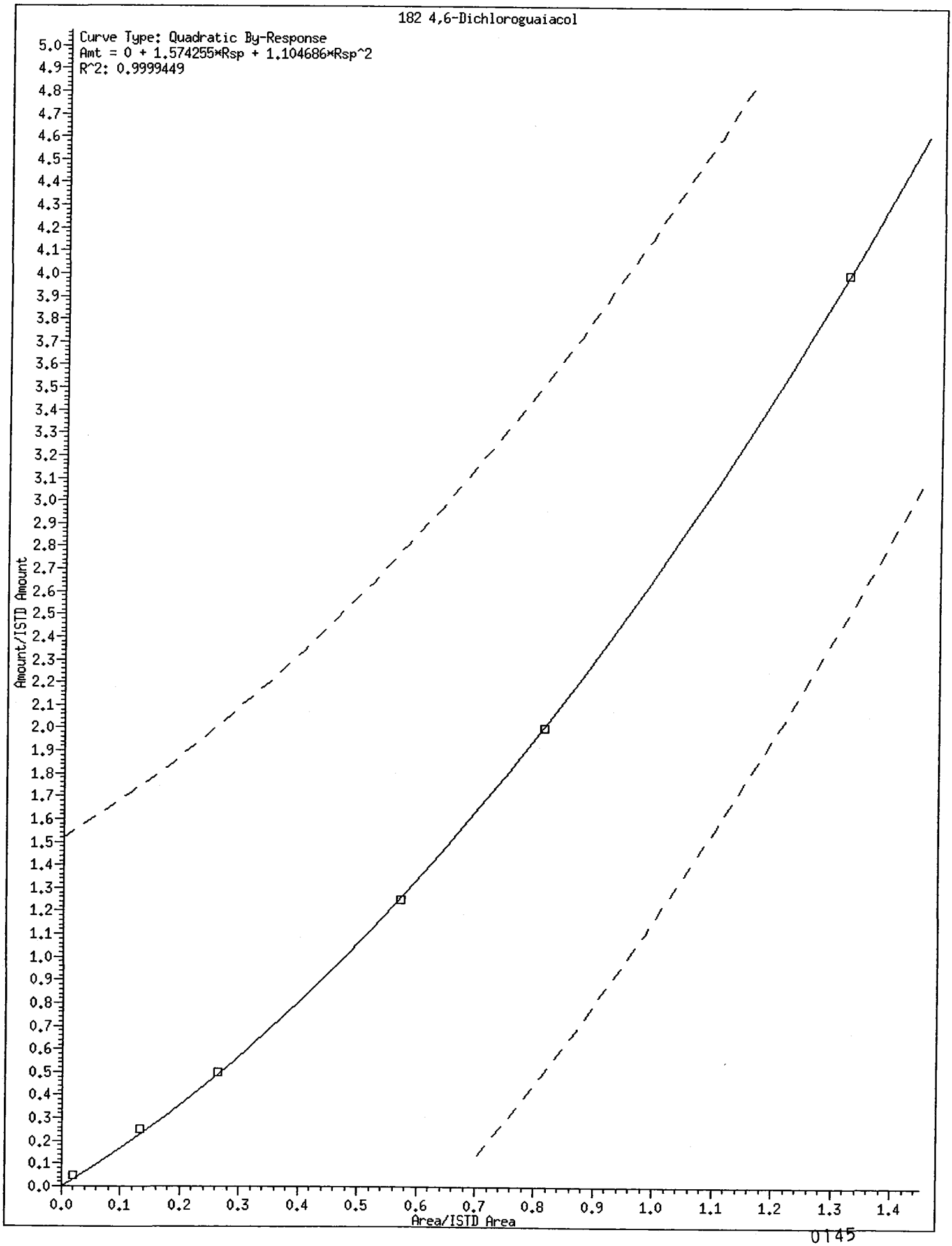
Method file : /chem1/nt6.i/20080915.b/SW846.m
Cal Date : 15-Sep-2008 15:09 jeff
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	80.000 Level 6	RRF	% RSD	
$ 85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$ 86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$ 87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$ 88 Dibenz(a,h)anthracene-d14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$ 89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
$ 95 D10-1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-


118 Triphenyl Phosphate
Curve Type: Quadratic By-Response
Amt = 0 + 4.261992*Rsp + 0.3578312*Rsp^2
R^2: 0.9998082
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
4.0
4.1
4.2
4.3
4.4
4.5
4.6
4.7
4.8
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50


116 Dibutyl Phenyl Phosphate
Curve Type: Quadratic By-Response
Amt = 0 + 1.529038*Rsp + 0.09216089*Rsp^2
R^2: 0.9999136
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4


181 3,4,6-Trichloroguaiacol
Curve Type: Quadratic By-Response
Amt = 0 + 2.663226*Rsp + 0.3567576*Rsp^2
R^2: 0.9992996
Amount/ISTD Amount
Area/ISTD Area
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
4.0
4.1
4.2
4.3
4.4
4.5
4.6
4.7
4.8
4.9


182 4,6-Dichloroguaiacol
Curve Type: Quadratic By-Response
Amt = 0 + 1.574255*Rsp + 1.104686*Rsp^2
R^2: 0.9999449
Amount/ISTD Amount
Area/ISTD Area
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
4.0
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4.2
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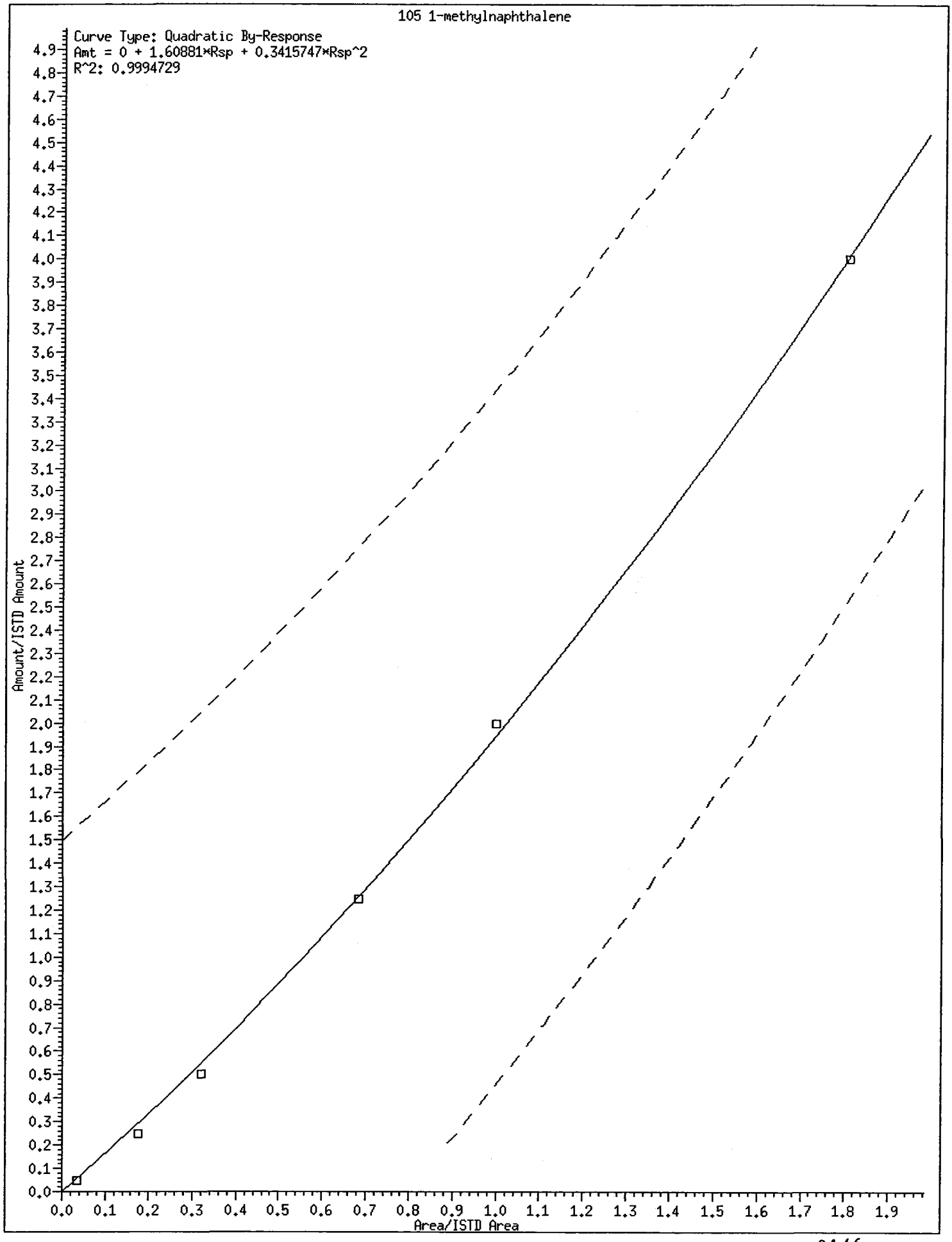
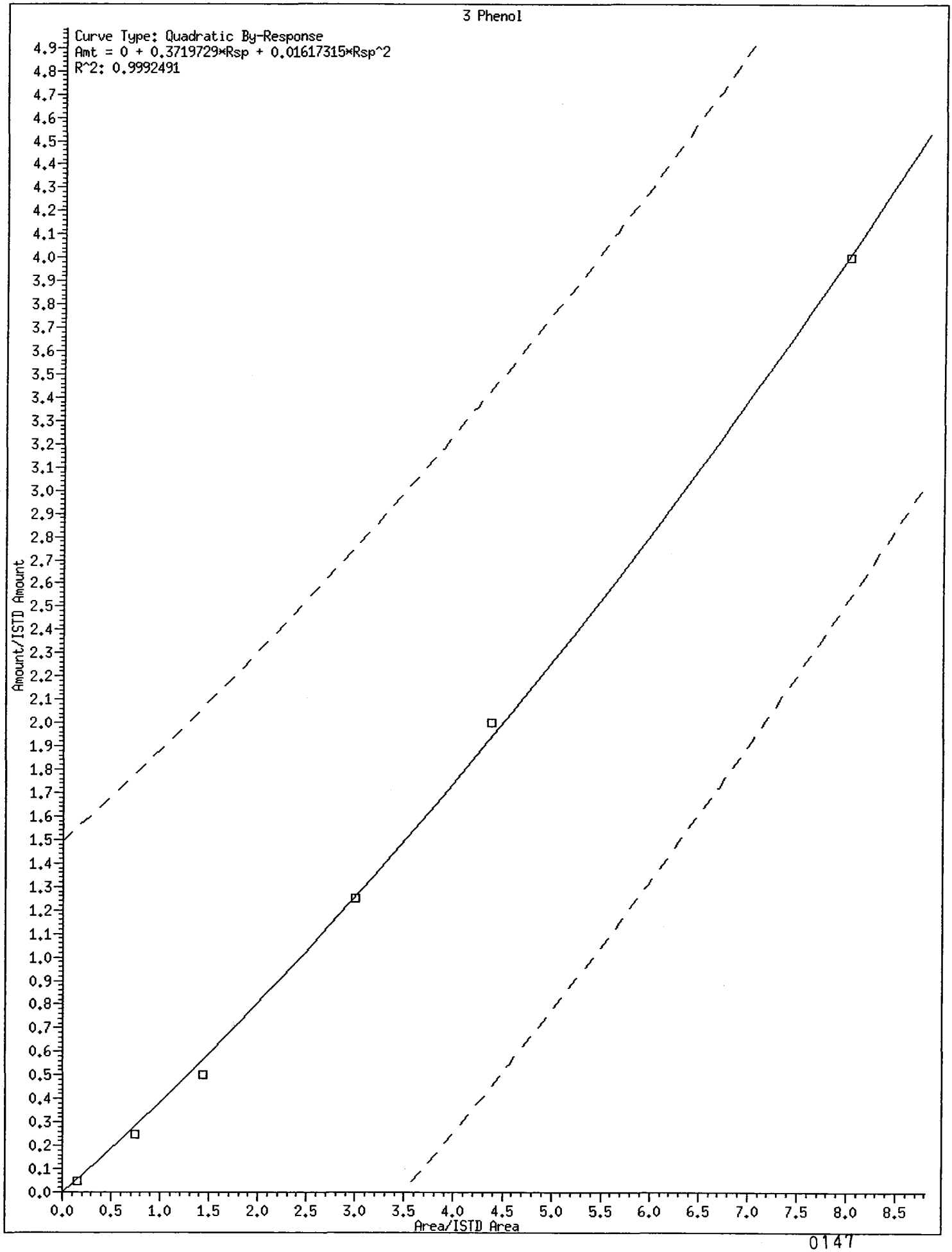
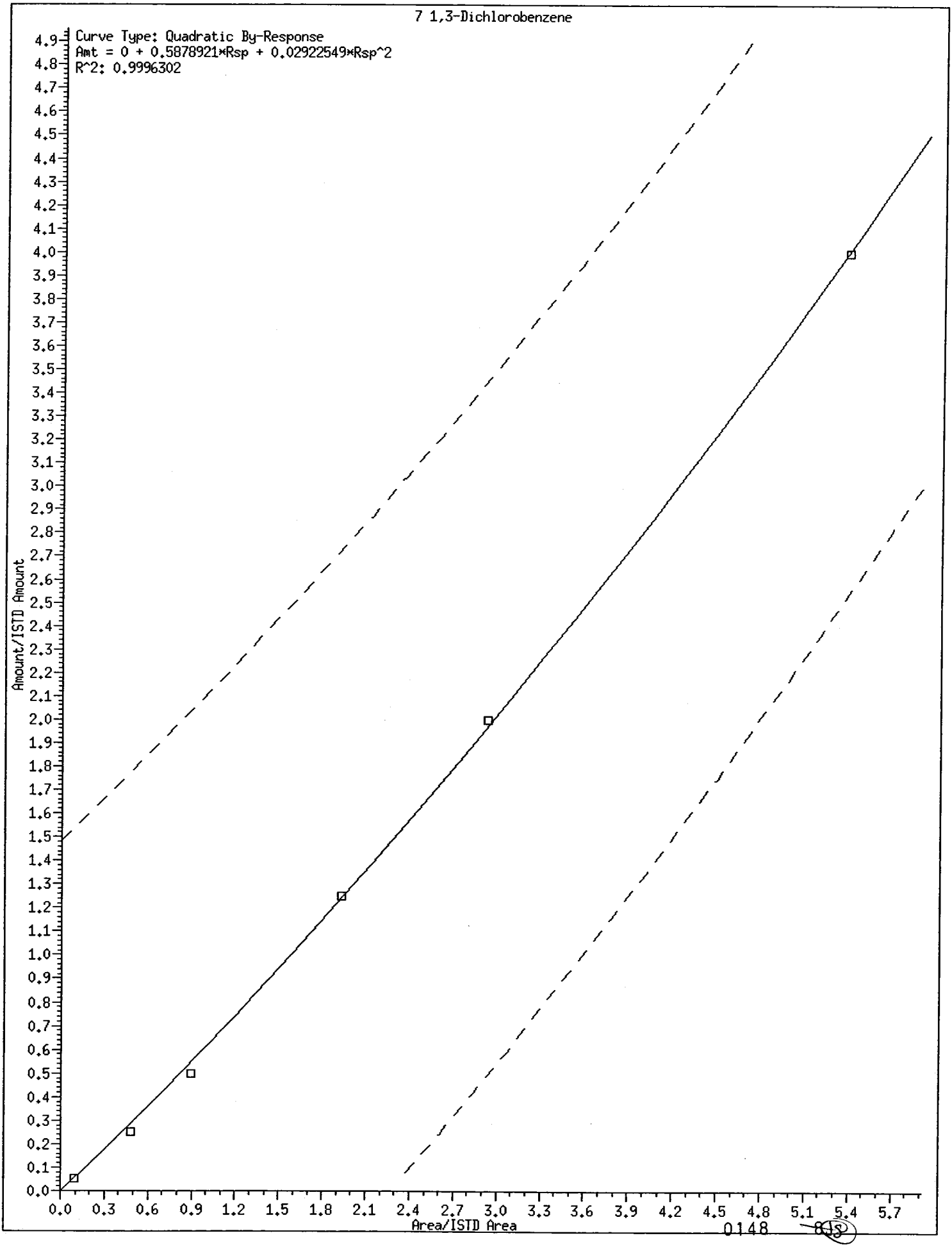
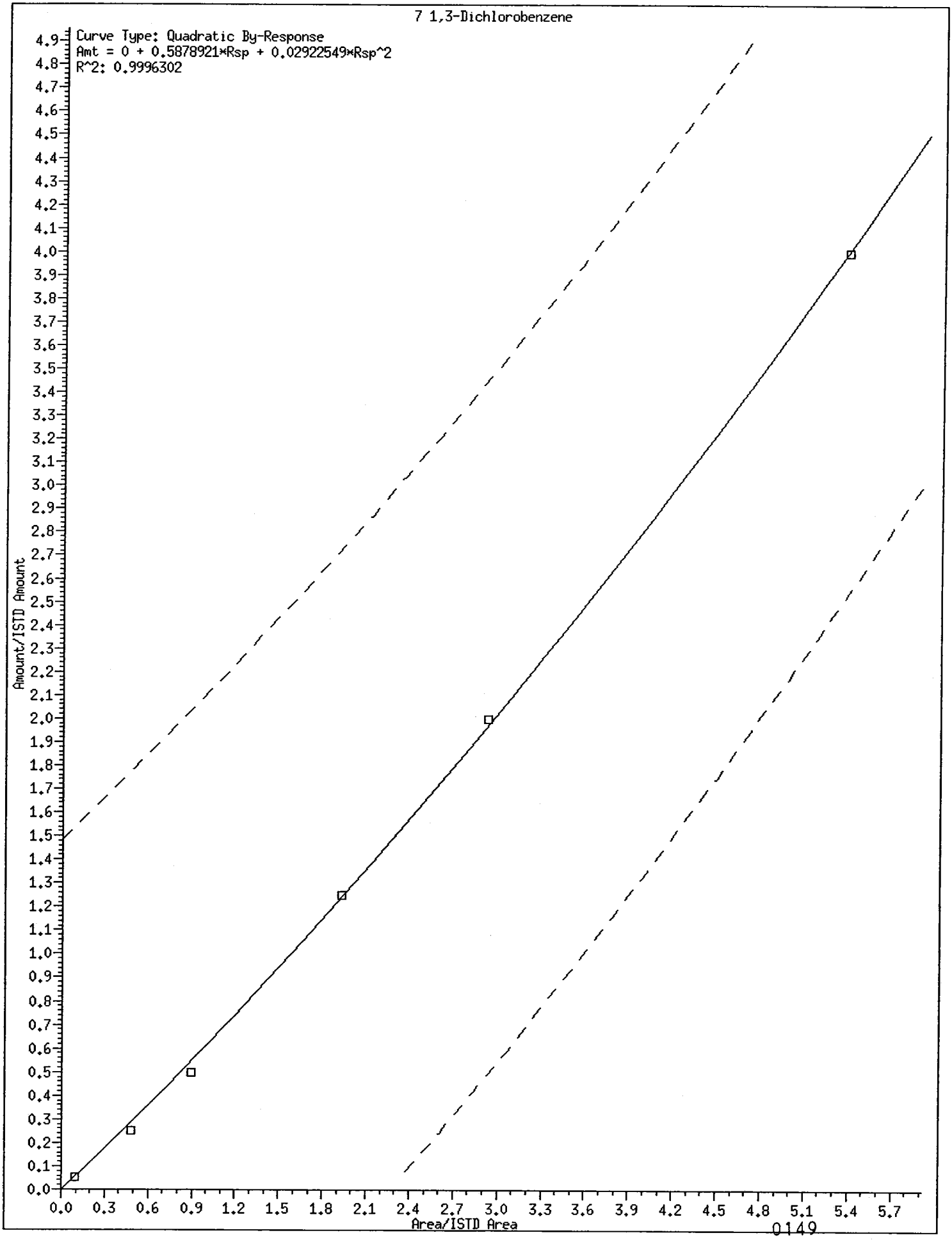
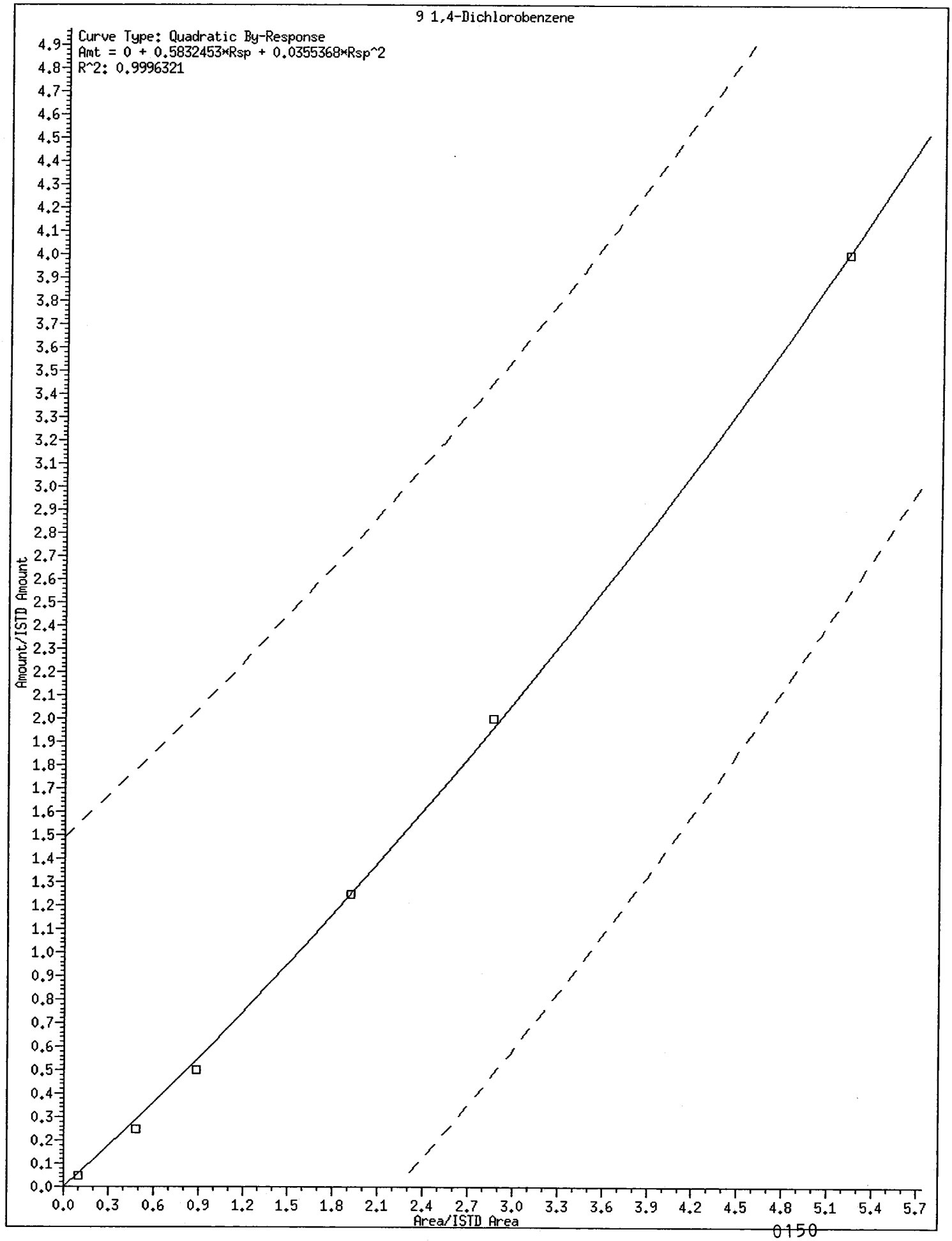
4.8
4.9
5.0

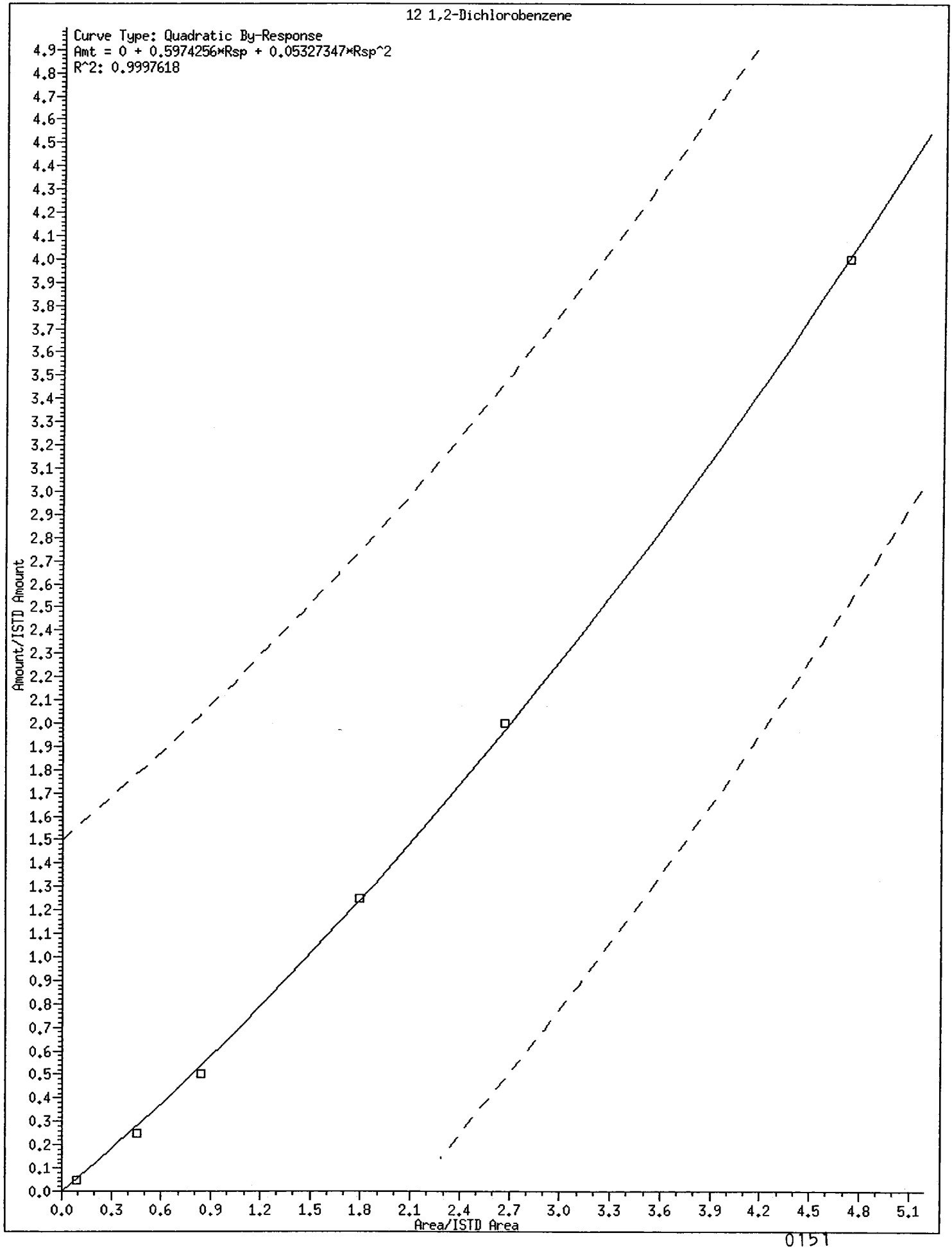

105 1-methylnaphthalene
Curve Type: Quadratic By-Response
Amt = 0 + 1.60881*Rsp + 0.3415747*Rsp^2
R^2: 0.9994729
Amount/ISTD Amount
Area/ISTD Area

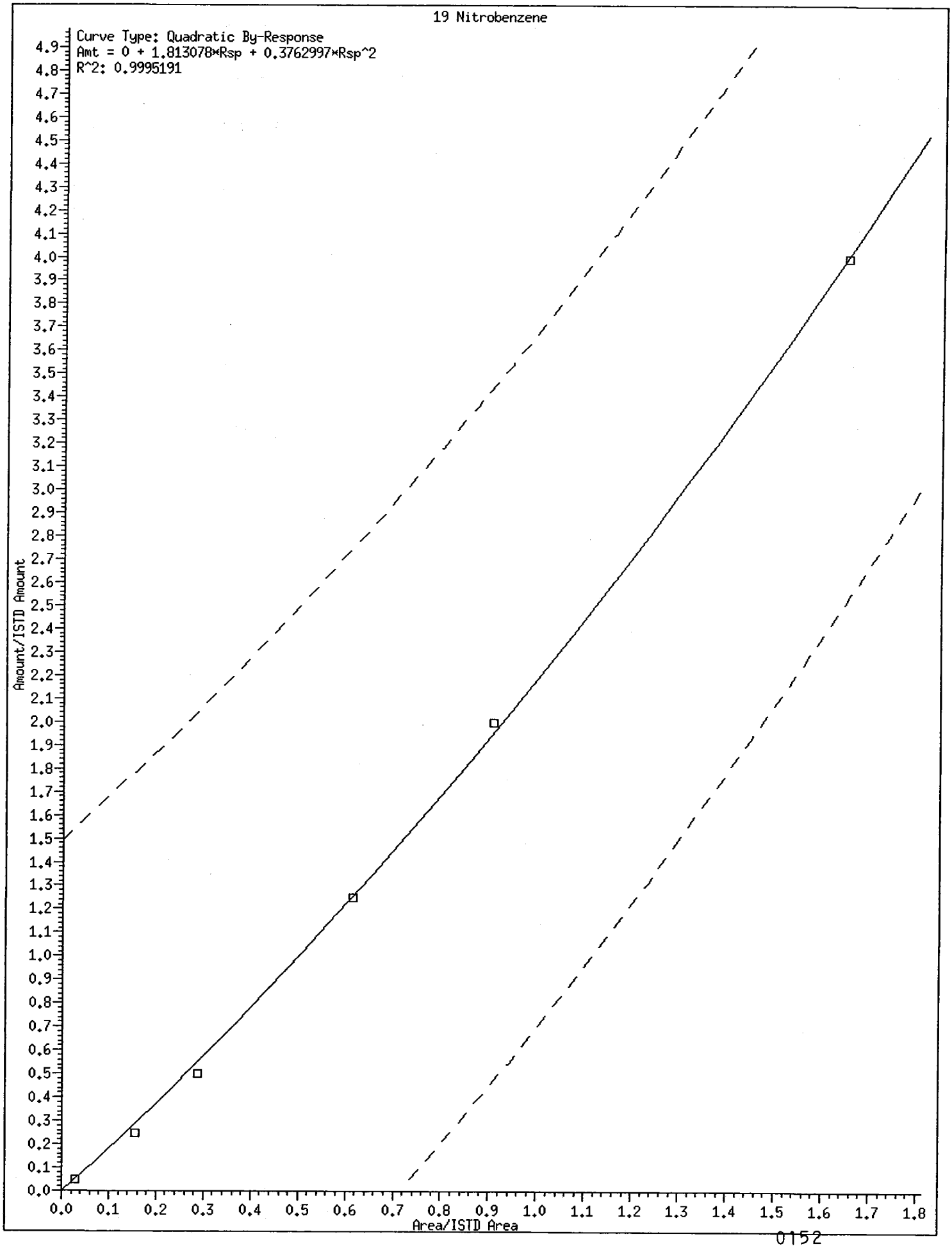

3 Phenol
Curve Type: Quadratic By-Response
Amt = 0 + 0.3719729*Rsp + 0.01617315*Rsp^2
R^2: 0.9992491
Amount/ISTD Amount
Area/ISTD Area
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9

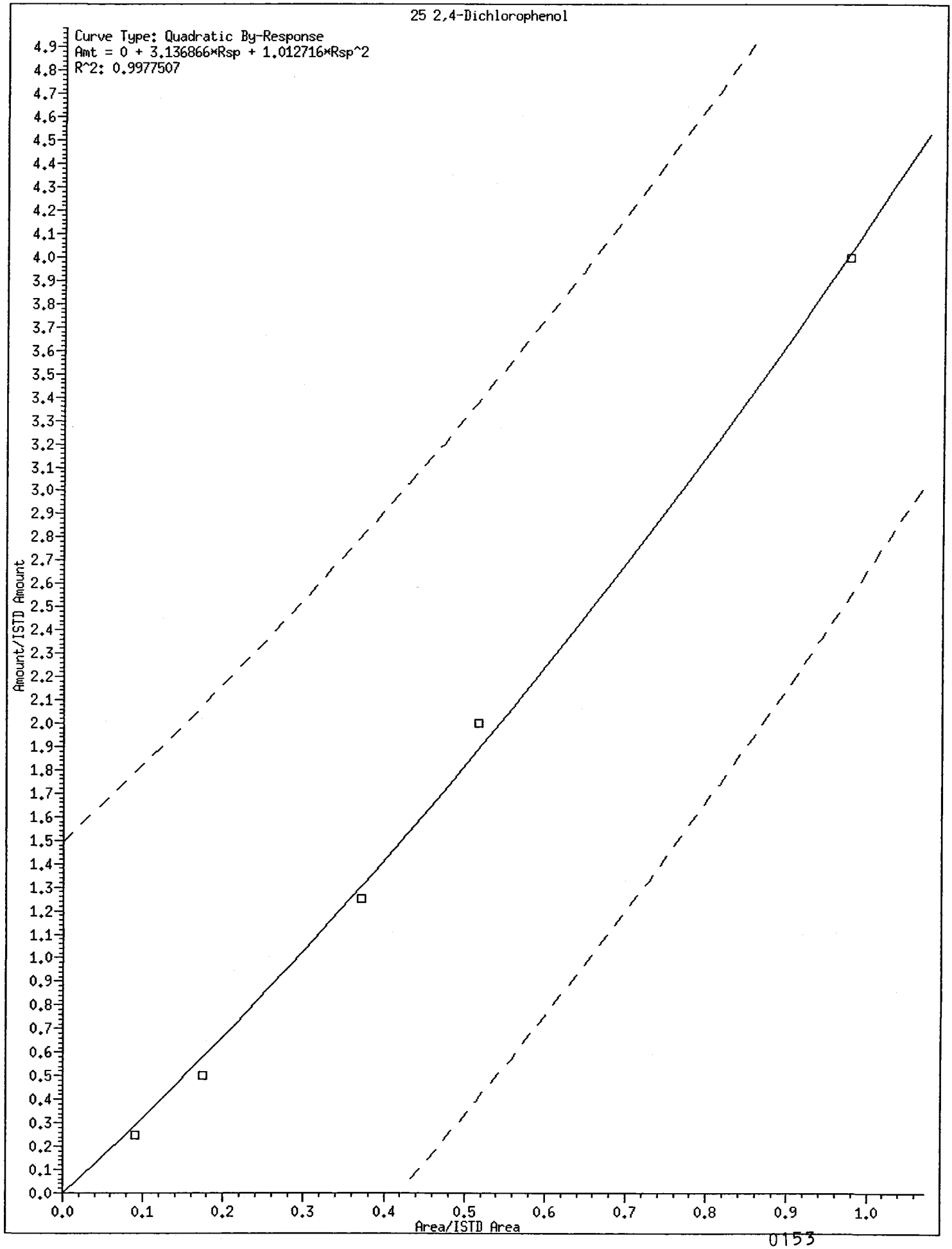

7 1,3-Dichlorobenzene
Curve Type: Quadratic By-Response
Amt = 0 + 0.5878921*Rsp + 0.02922549*Rsp^2
R^2: 0.9996302
Amount/ISTD Amount
Area/ISTD Area
0148

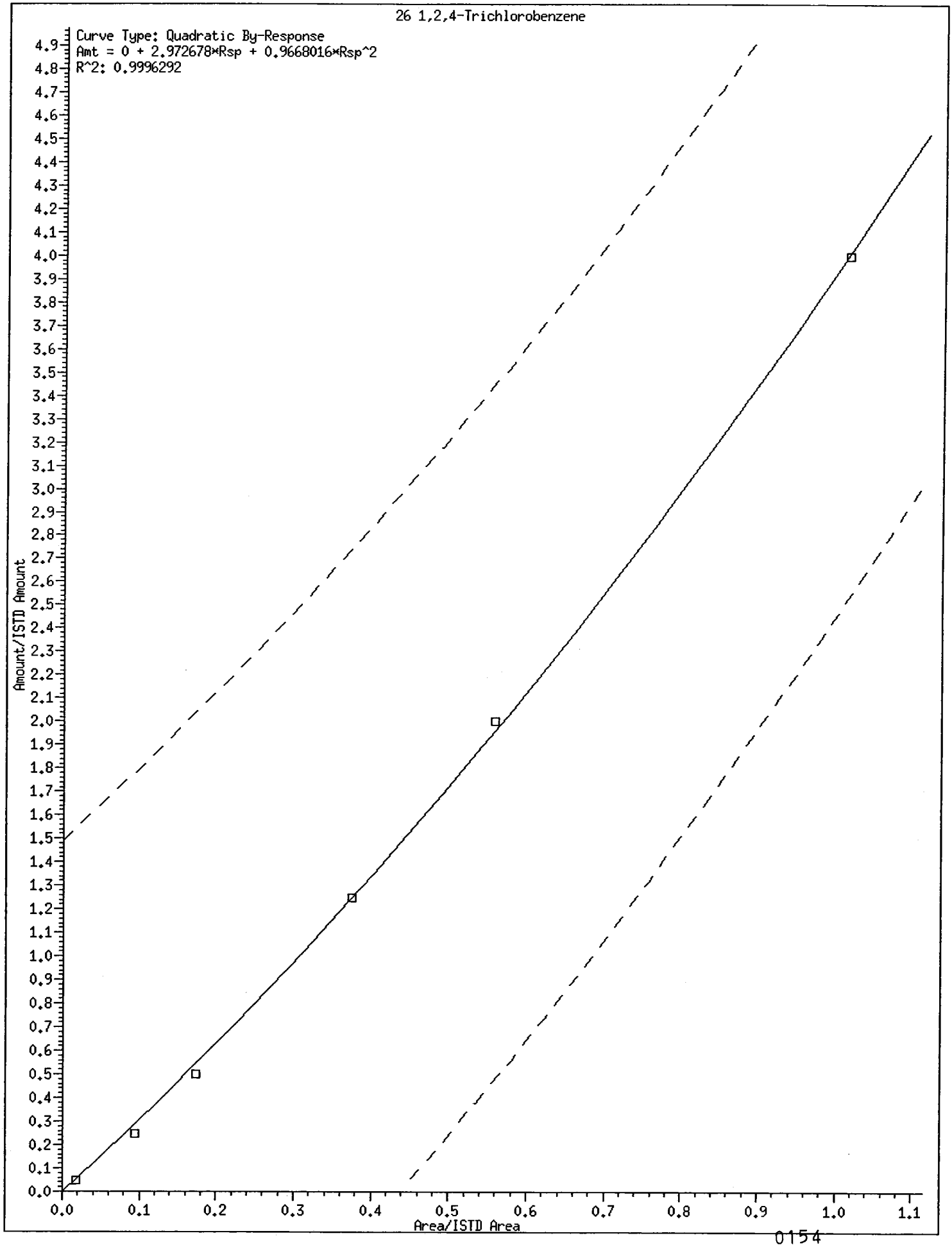

7 1,3-Dichlorobenzene
Curve Type: Quadratic By-Response
Amt = 0 + 0.5878921*Rsp + 0.02922549*Rsp^2
R^2: 0.9996302
Amount/ISTD Amount
Area/ISTD Area

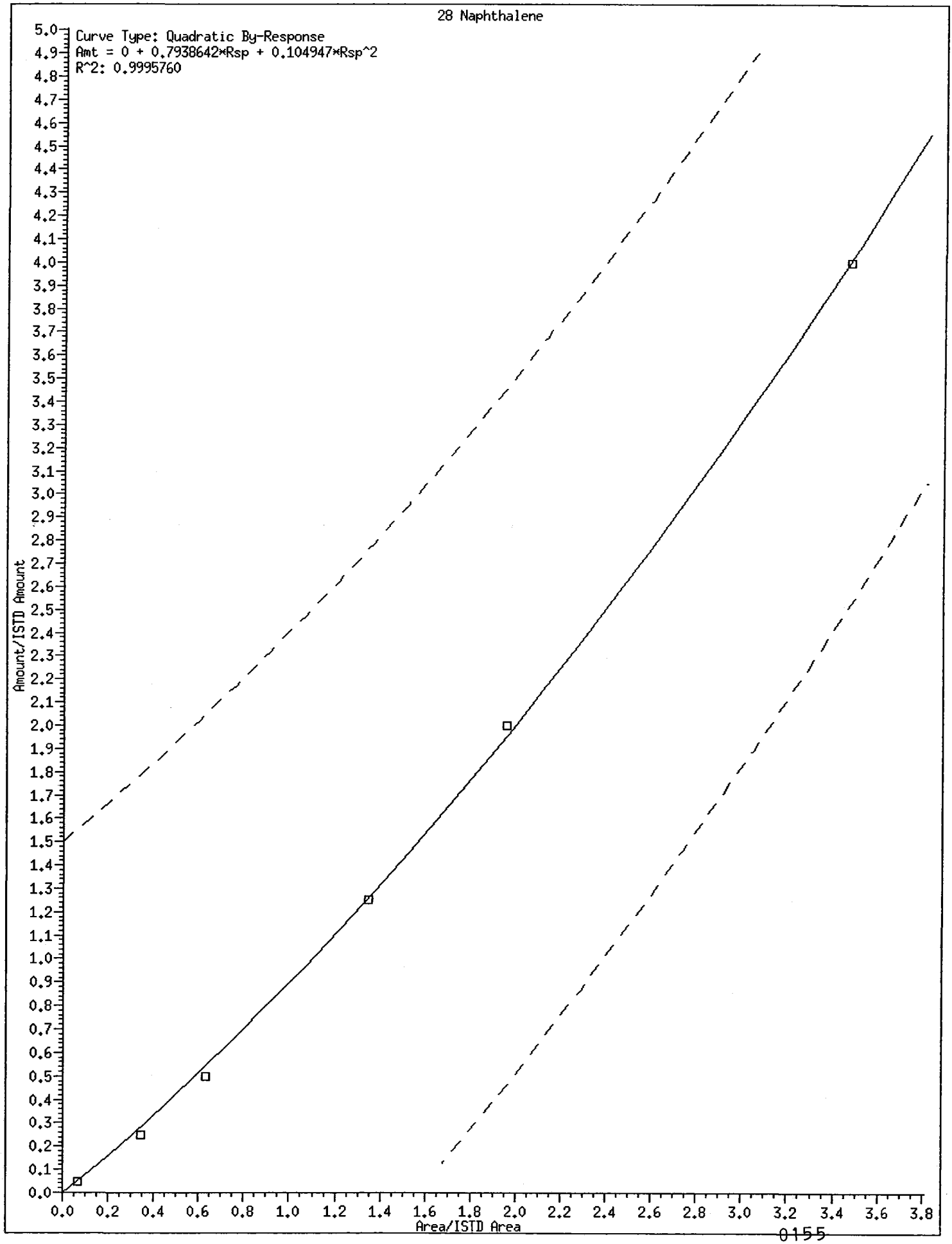

9 1,4-Dichlorobenzene
Curve Type: Quadratic By-Response
Amt = 0 + 0.5832453*Rsp + 0.0355368*Rsp^2
R^2: 0.9996321
Amount/ISTD Amount
Area/ISTD Area

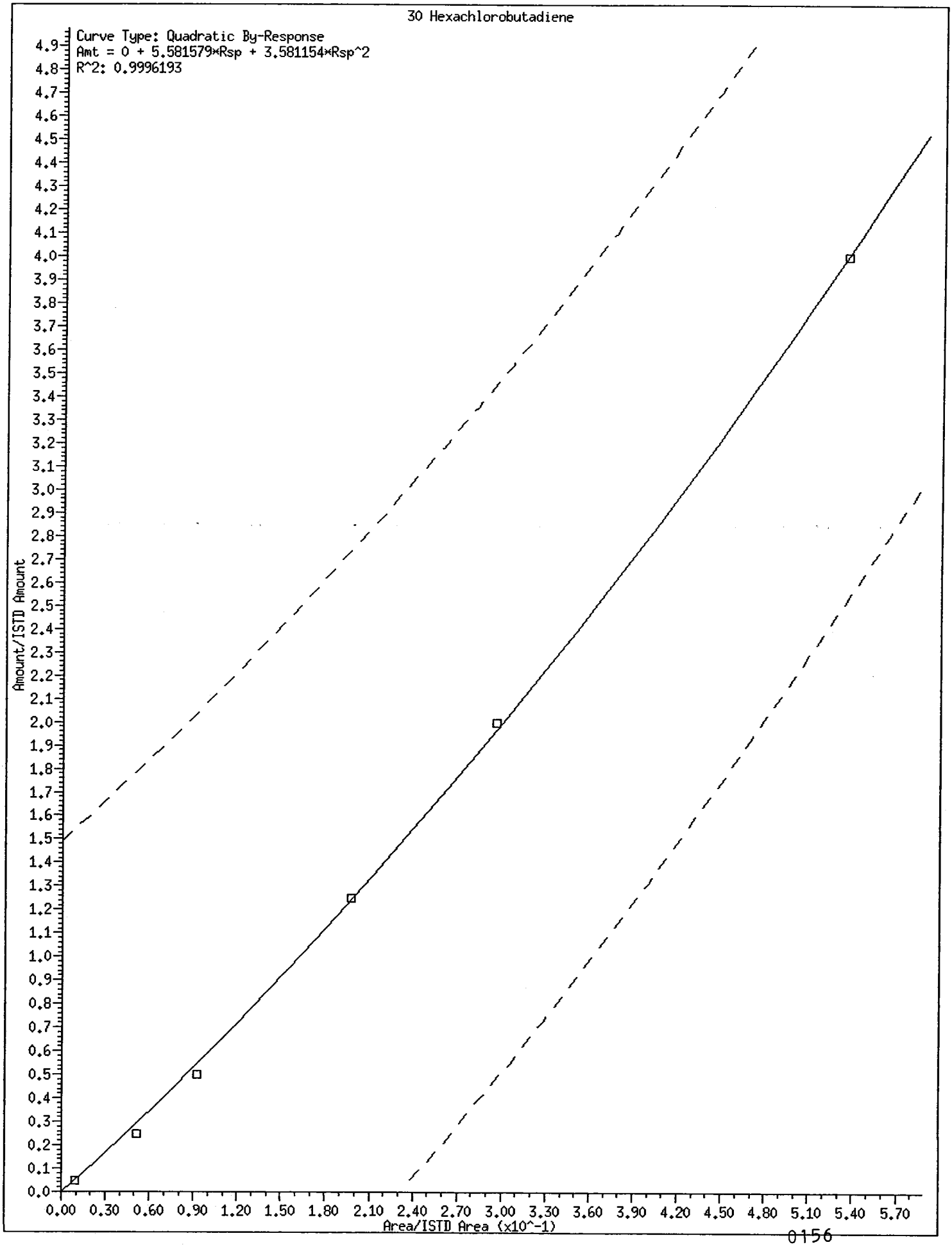

12 1,2-Dichlorobenzene
Curve Type: Quadratic By-Response
Amt = 0 + 0.5974256*Rsp + 0.05327347*Rsp^2
R^2: 0.9997618
Amount/ISTD Amount
Area/ISTD Area
0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5 4.8 5.1
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9

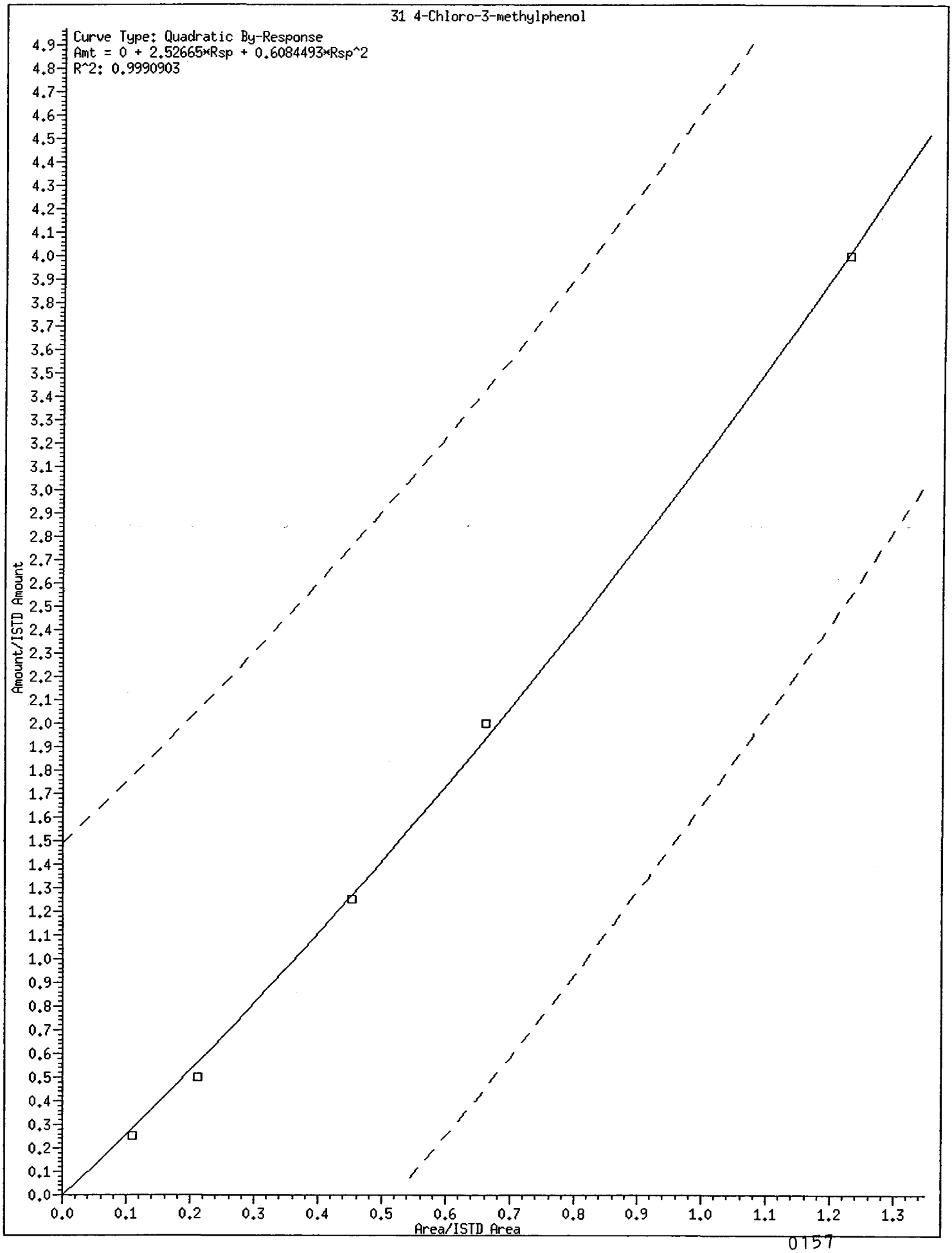

19 Nitrobenzene
Curve Type: Quadratic By-Response
Amt = 0 + 1.813078*Rsp + 0.3762997*Rsp^2
R^2: 0.9995191
Amount/ISTD Amount
Area/ISTD Area

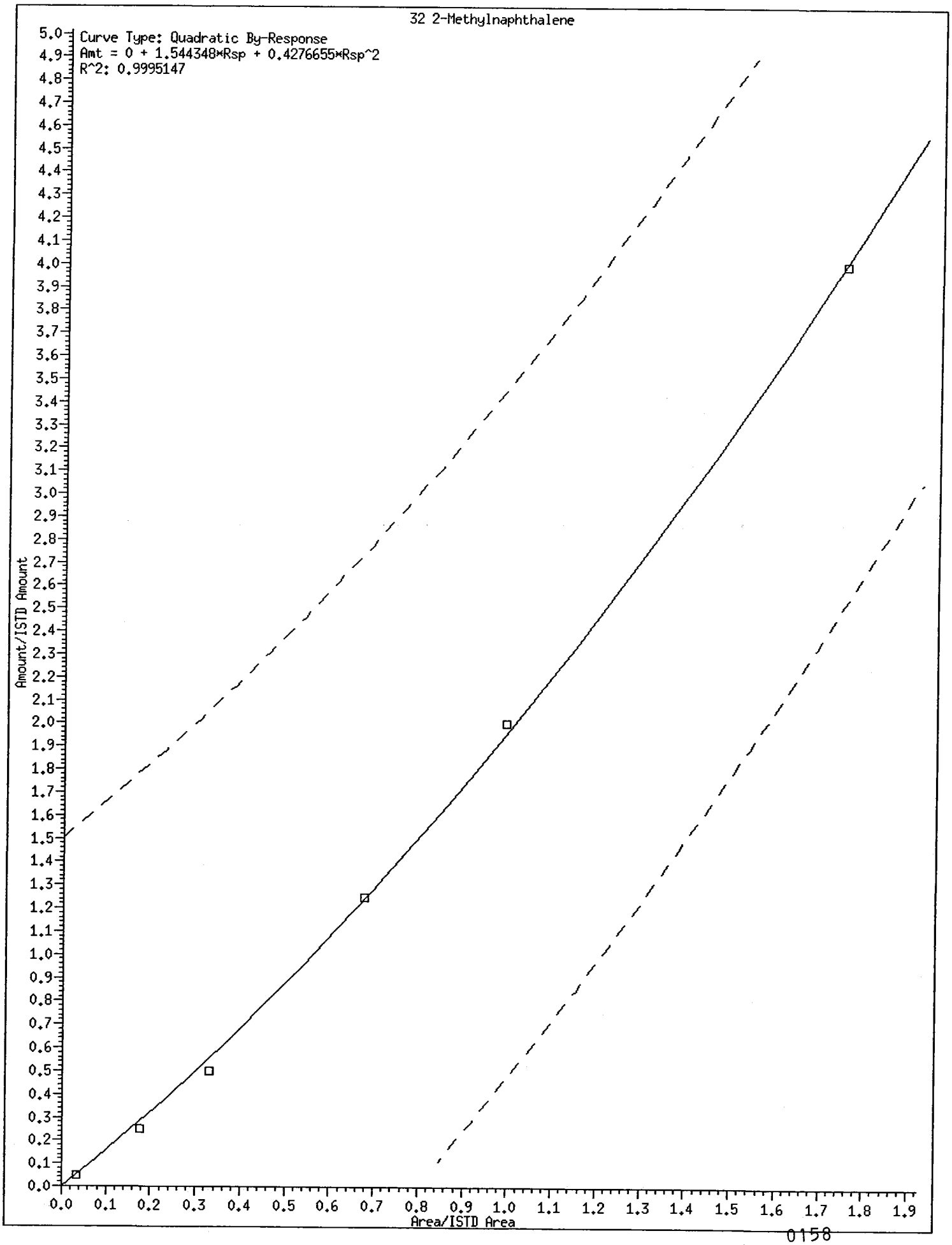

25 2,4-Dichlorophenol
Curve Type: Quadratic By-Response
Amt = 0 + 3.136866*Rsp + 1.012716*Rsp^2
R^2: 0.9977507
Amount/ISTD Amount
Area/ISTD Area
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
4.0
4.1
4.2
4.3
4.4
4.5
4.6
4.7
4.8
4.9

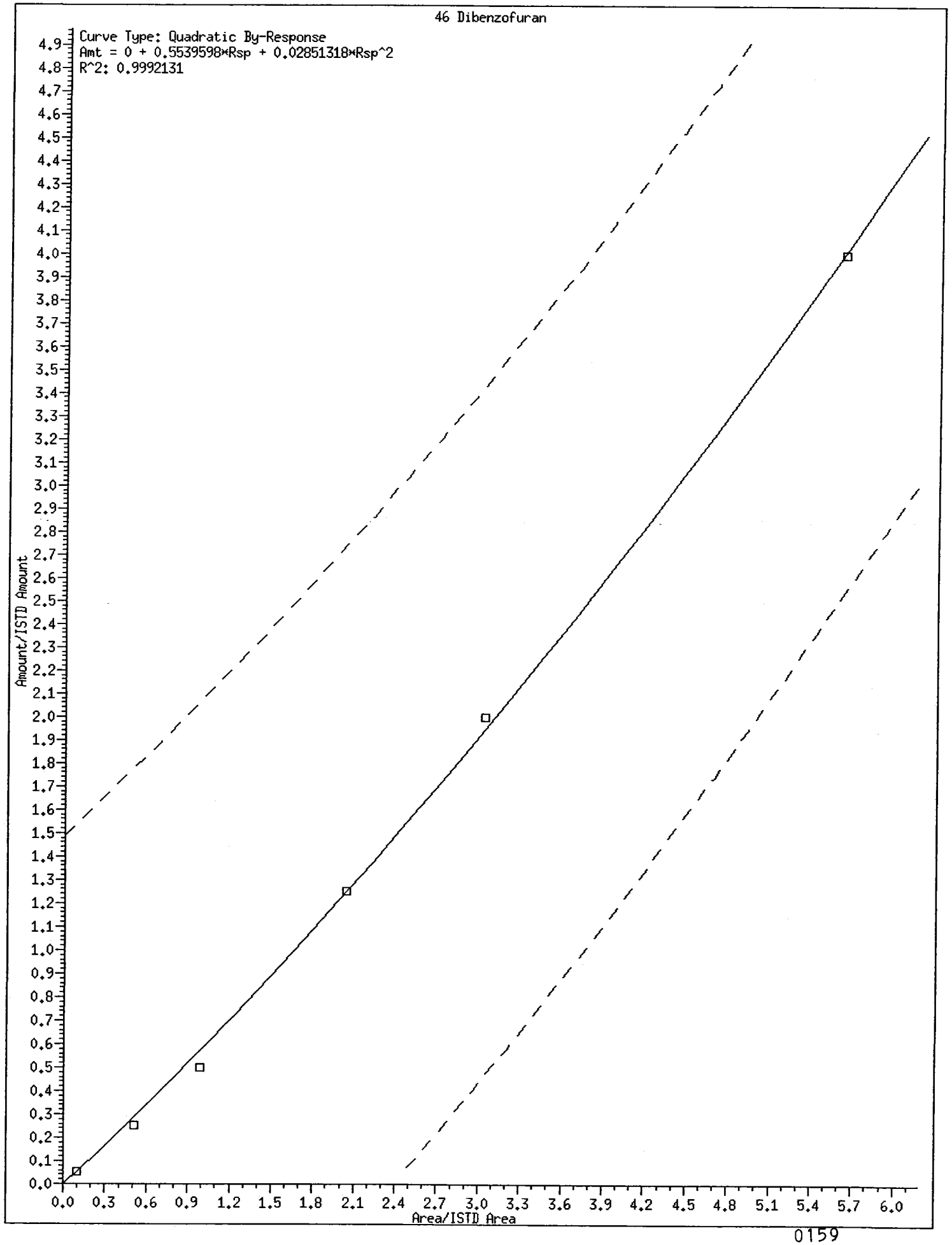

26 1,2,4-Trichlorobenzene
Curve Type: Quadratic By-Response
Amt = 0 + 2.972678*Rsp + 0.9668016*Rsp^2
R^2: 0.9996292
Amount/ISTD Amount
Area/ISTD Area
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
4.9
4.8
4.7
4.6
4.5
4.4
4.3
4.2
4.1
4.0
3.9
3.8
3.7
3.6
3.5
3.4
3.3
3.2
3.1
3.0
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0

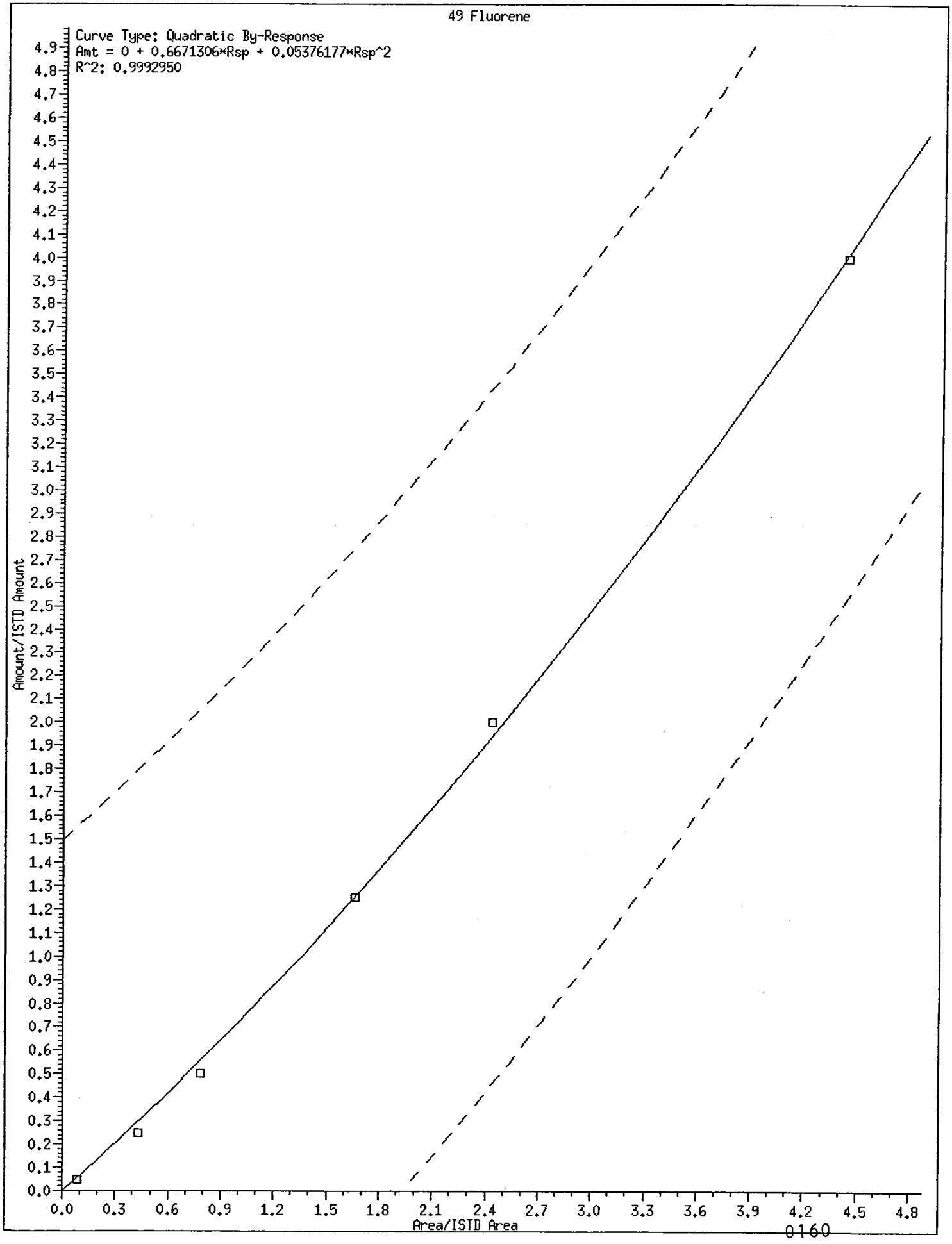

28 Naphthalene
Curve Type: Quadratic By-Response
Amt = 0 + 0.7938642*Rsp + 0.104947*Rsp^2
R^2: 0.9995760
Amount/ISTD Amount
Area/ISTD Area

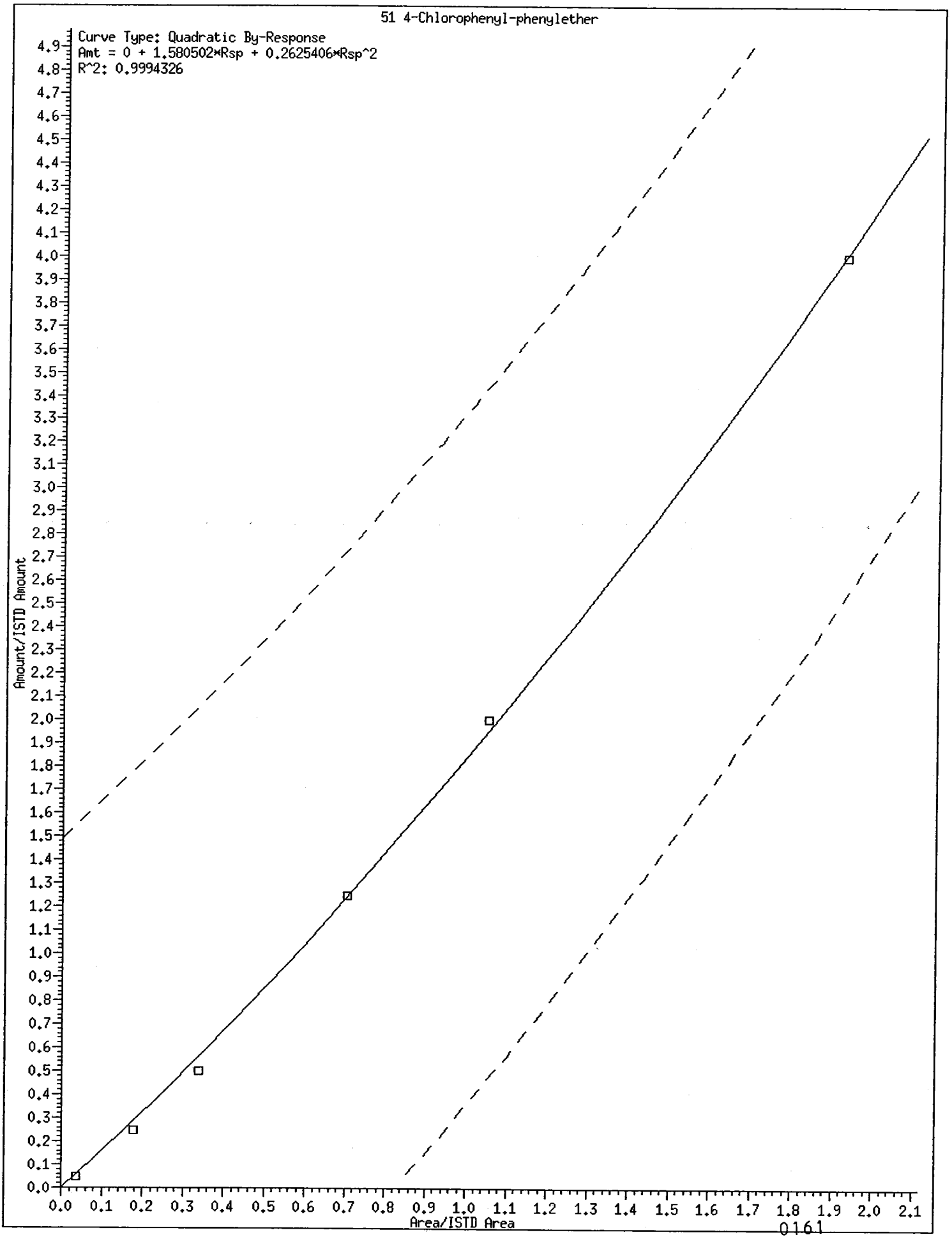

30 Hexachlorobutadiene
Curve Type: Quadratic By-Response
Amt = 0 + 5.581579*Rsp + 3.581154*Rsp^2
R^2: 0.9996193
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.00 0.30 0.60 0.90 1.20 1.50 1.80 2.10 2.40 2.70 3.00 3.30 3.60 3.90 4.20 4.50 4.80 5.10 5.40 5.70

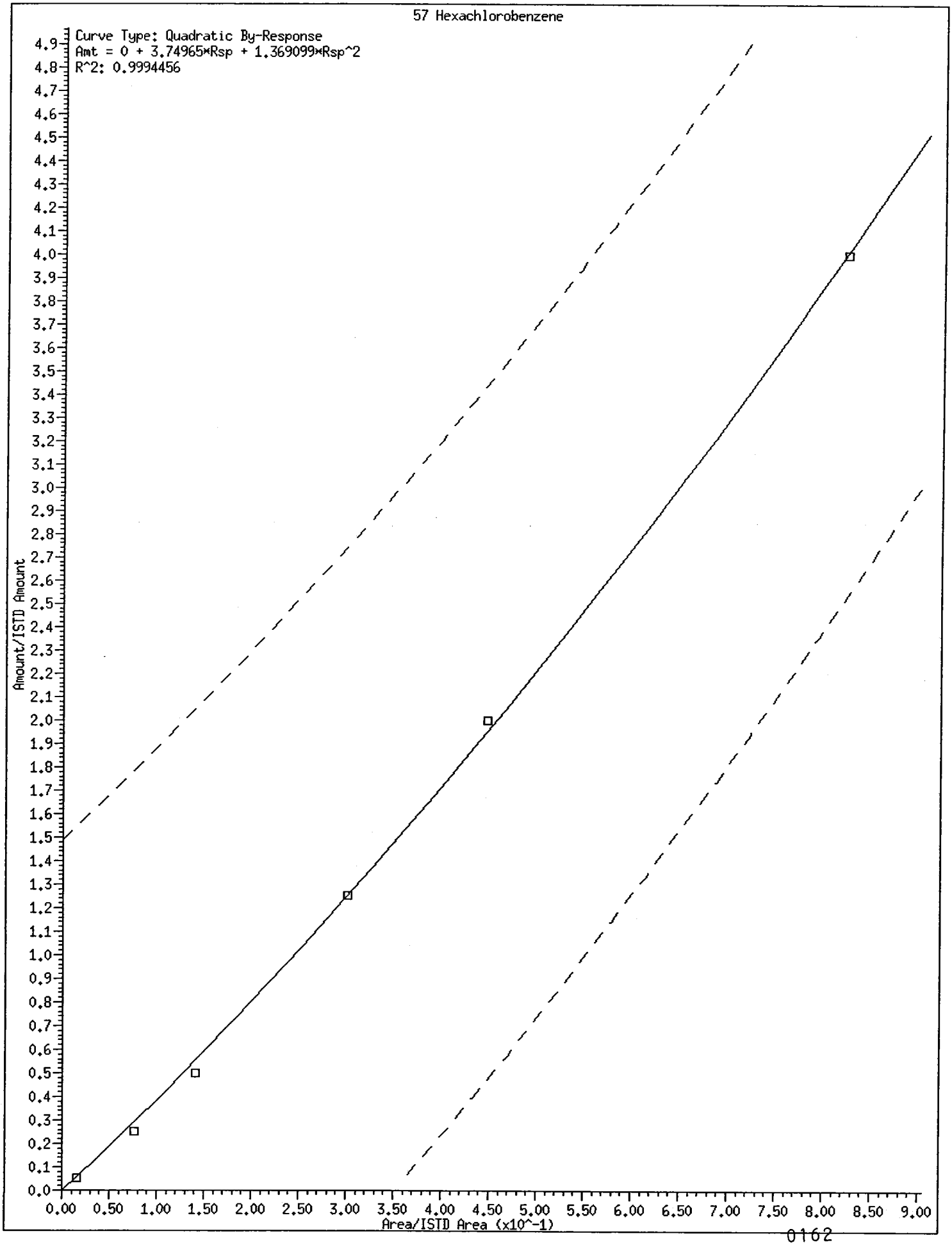

31 4-Chloro-3-methylphenol
Curve Type: Quadratic By-Response
Amt = 0 + 2.52665*Rsp + 0.6084493*Rsp^2
R^2: 0.9990903
Amount/ISTD Amount
Area/ISTD Area
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
4.9
4.8
4.7
4.6
4.5
4.4
4.3
4.2
4.1
4.0
3.9
3.8
3.7
3.6
3.5
3.4
3.3
3.2
3.1
3.0
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0

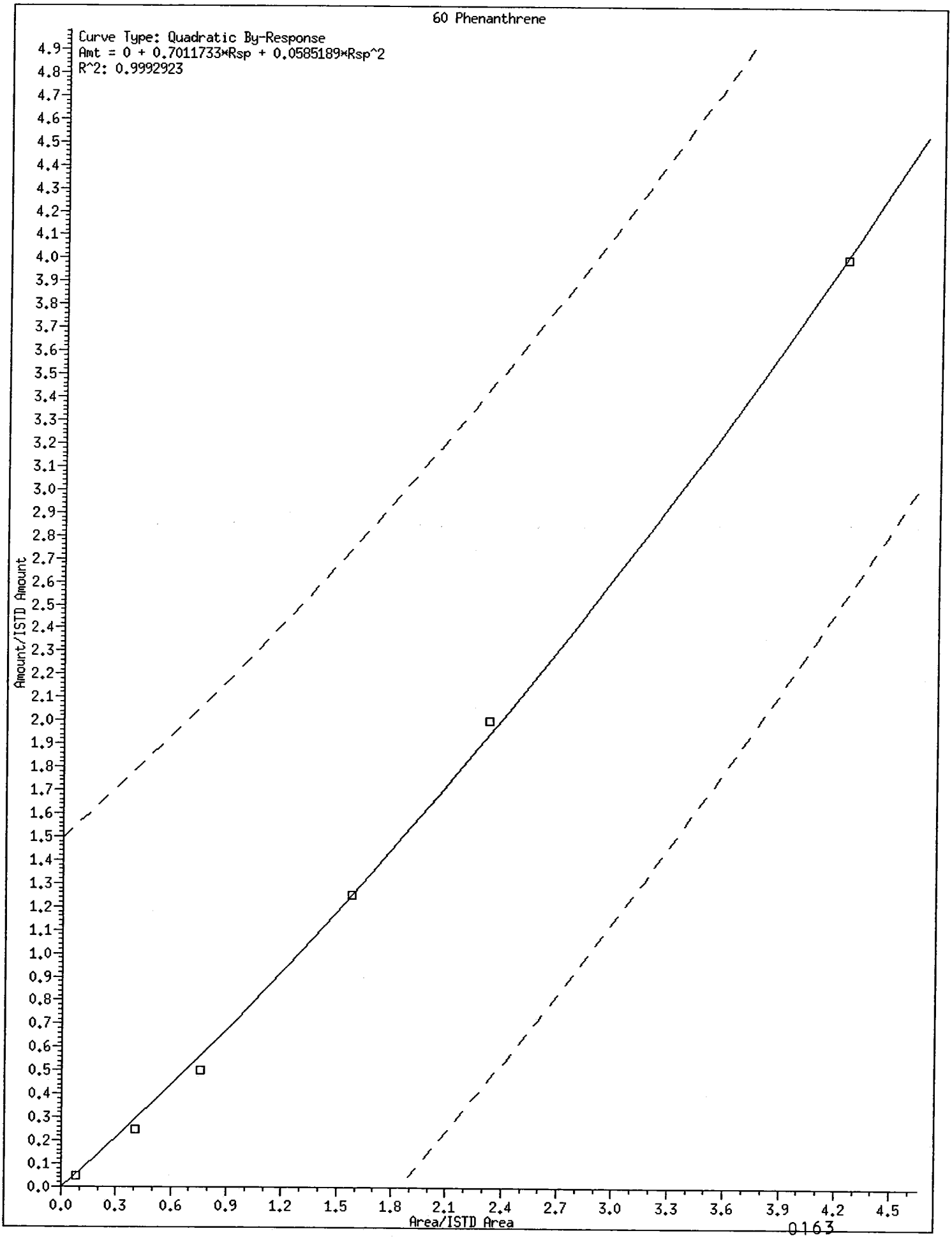

32 2-Methylnaphthalene
Curve Type: Quadratic By-Response
Amt = 0 + 1.544348*Rsp + 0.4276655*Rsp^2
R^2: 0.9995147
Amount/ISTD Amount
Area/ISTD Area
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0

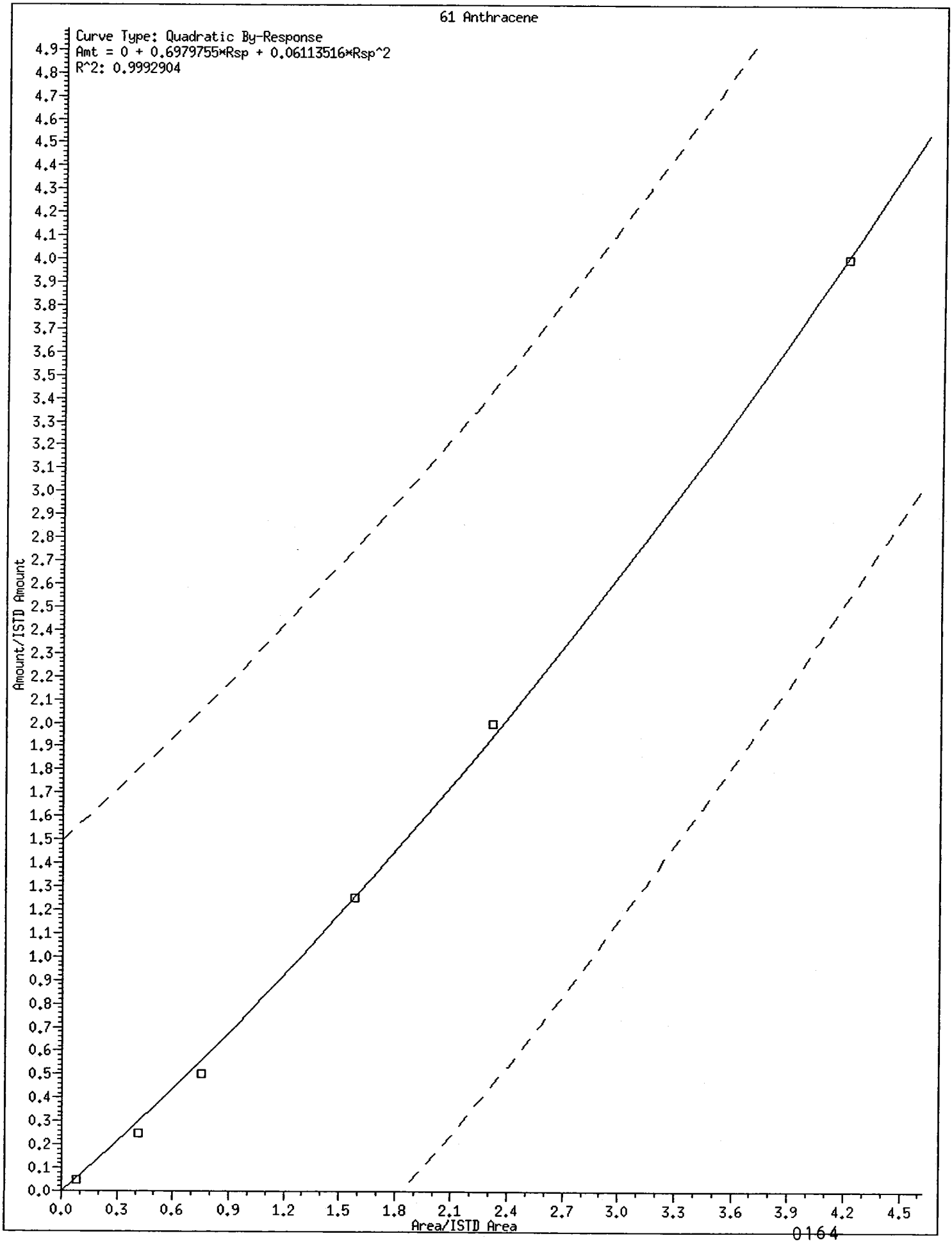

46 Dibenzofuran
Curve Type: Quadratic By-Response
Amt = 0 + 0.5539598*Rsp + 0.02851318*Rsp^2
R^2: 0.9992131
Amount/ISTD Amount
Area/ISTD Area
0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5 4.8 5.1 5.4 5.7 6.0
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9

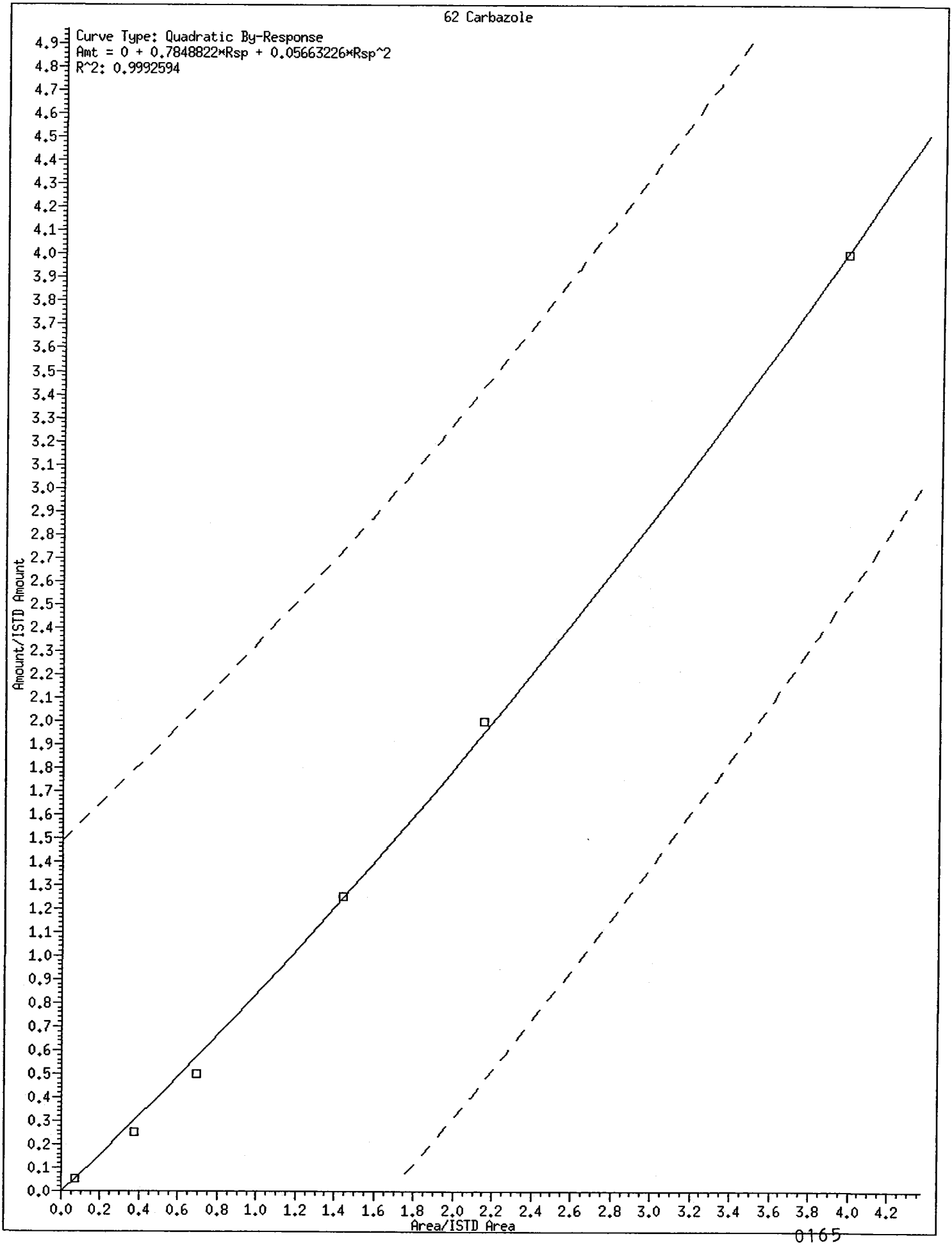

49 Fluorene
Curve Type: Quadratic By-Response
Amt = 0 + 0.6671306*Rsp + 0.05376177*Rsp^2
R^2: 0.9992950
Amount/ISTD Amount
Area/ISTD Area
0160

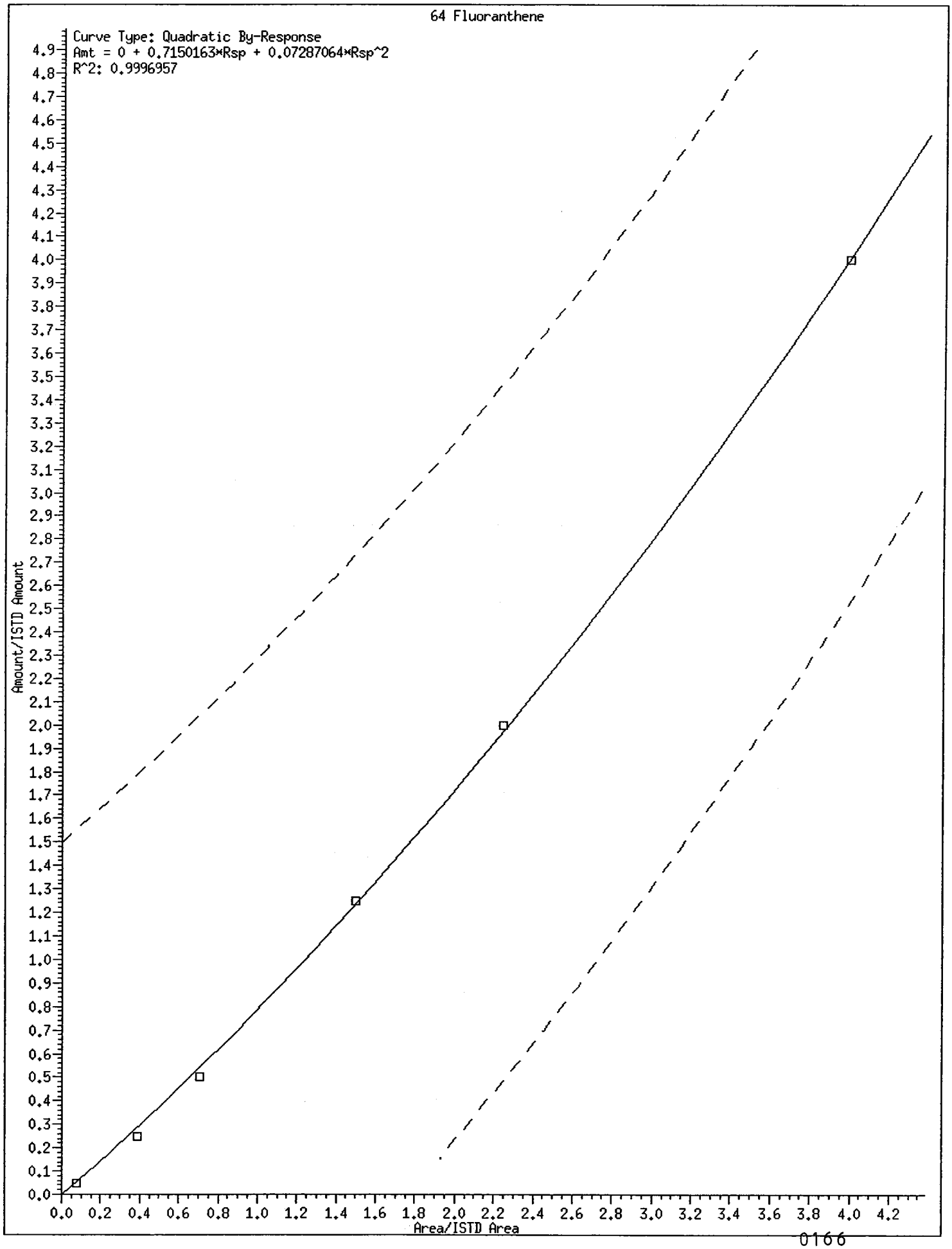

51 4-Chlorophenyl-phenylether
Curve Type: Quadratic By-Response
Amt = 0 + 1.580502*Rsp + 0.2625406*Rsp^2
R^2: 0.9994326
Amount/ISTD Amount
Area/ISTD Area
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9

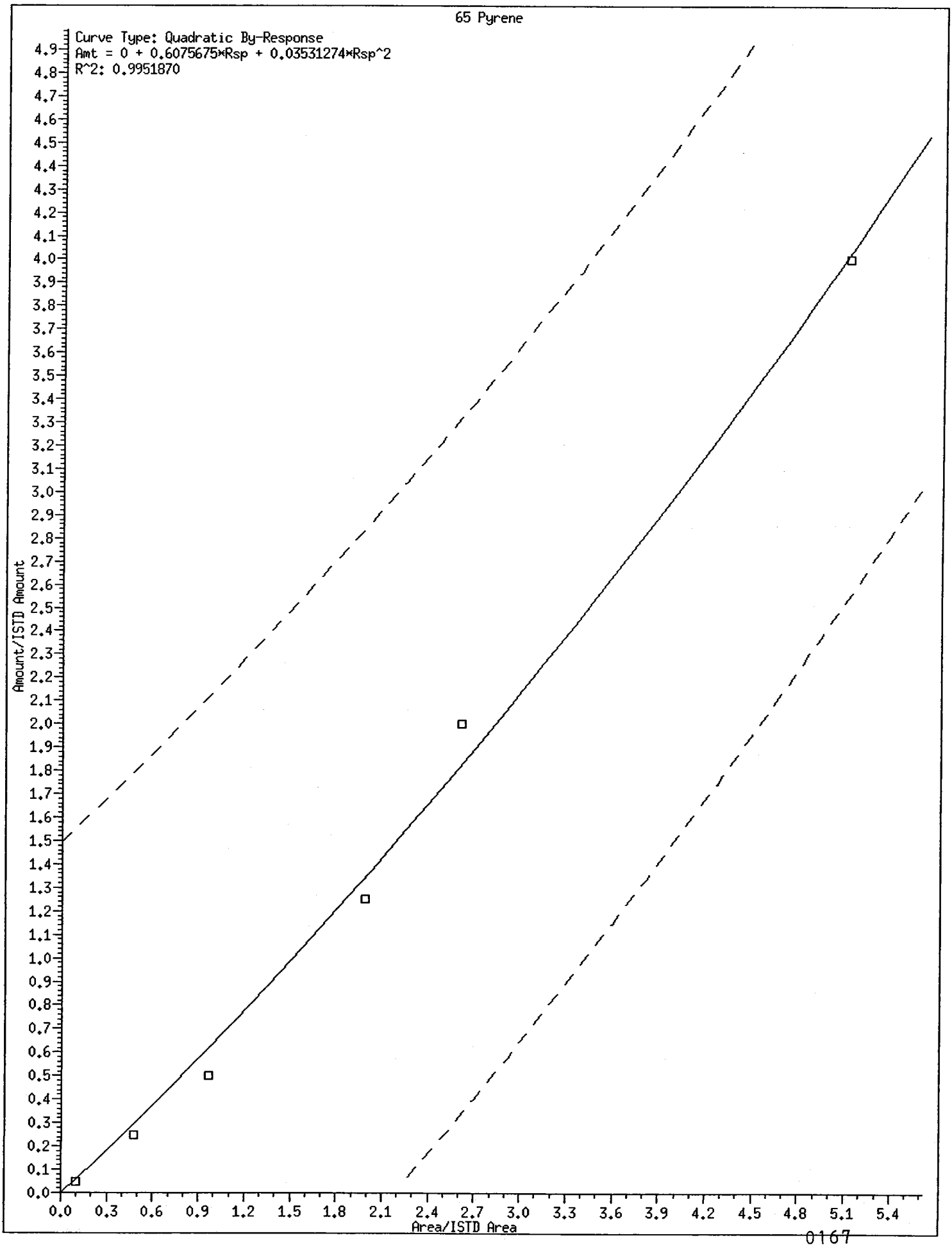

57 Hexachlorobenzene
Curve Type: Quadratic By-Response
Amt = 0 + 3.74965*Rsp + 1.369099*Rsp^2
R^2: 0.9994456
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9
0.00 0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00

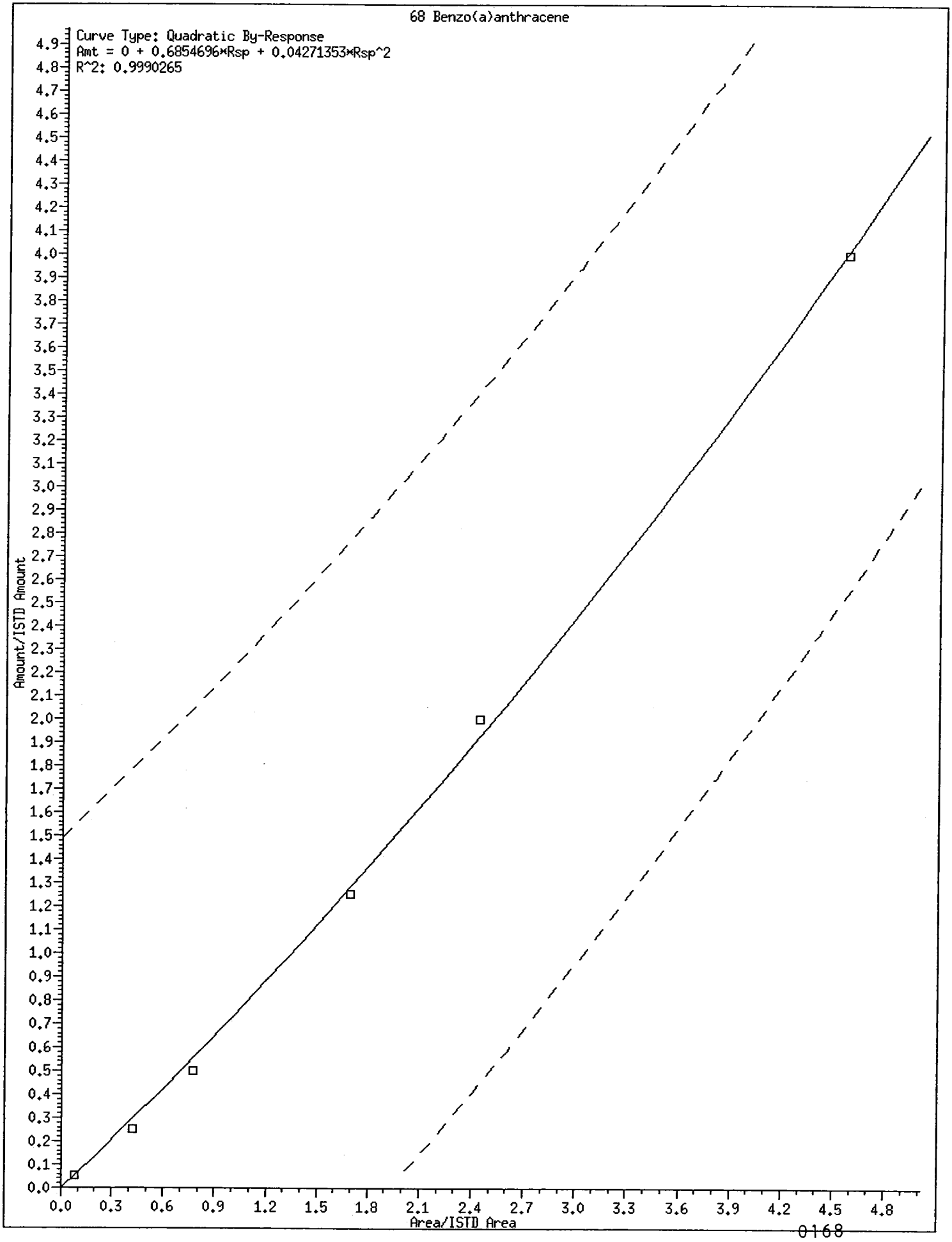

60 Phenanthrene
Curve Type: Quadratic By-Response
Amt = 0 + 0.7011733*Rsp + 0.0585189*Rsp^2
R^2: 0.9992923
Amount/ISTD Amount
Area/ISTD Area
0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9

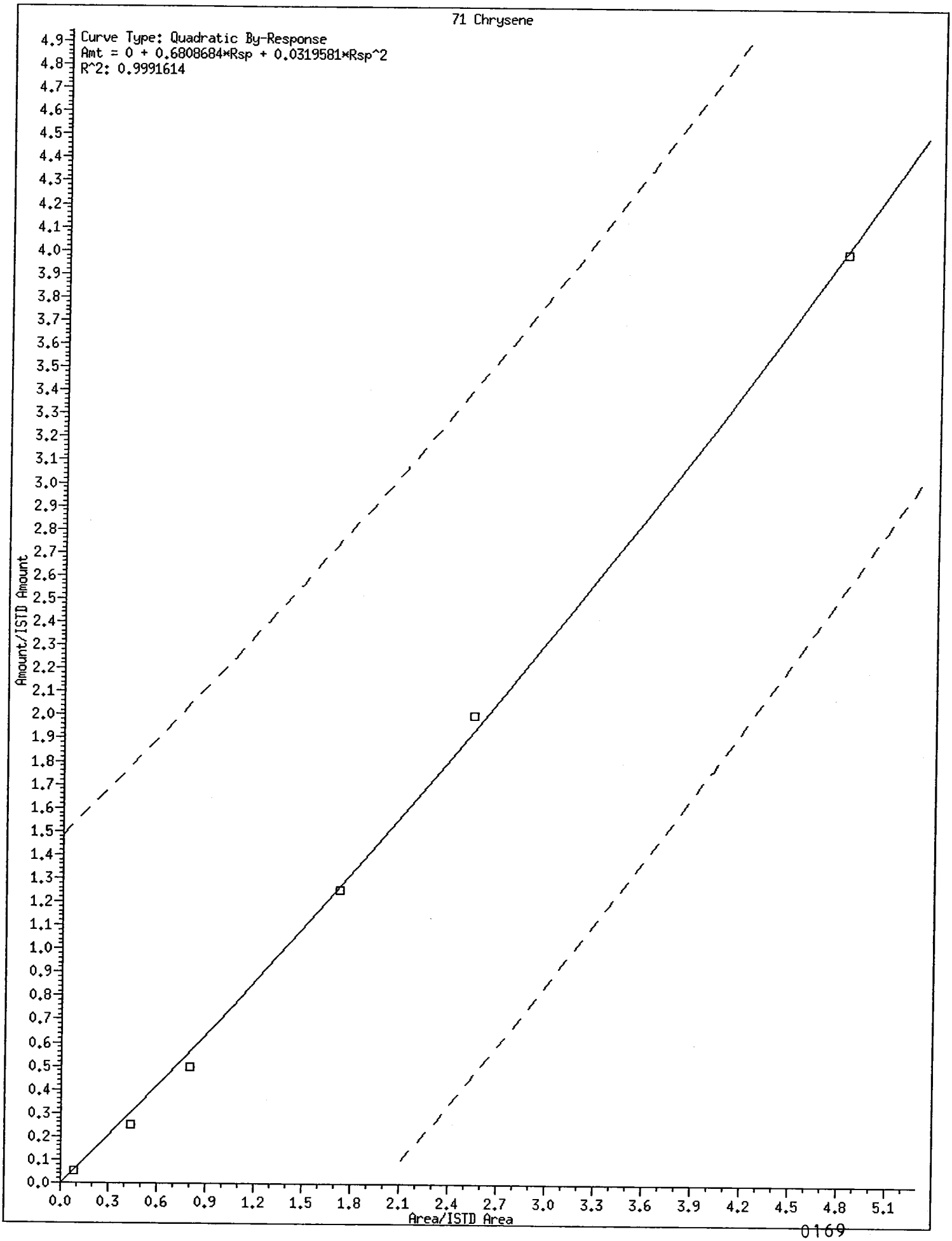

61 Anthracene
Curve Type: Quadratic By-Response
Amt = 0 + 0.6979755*Rsp + 0.06113516*Rsp^2
R^2: 0.9992904
Amount/ISTD Amount
Area/ISTD Area
0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9

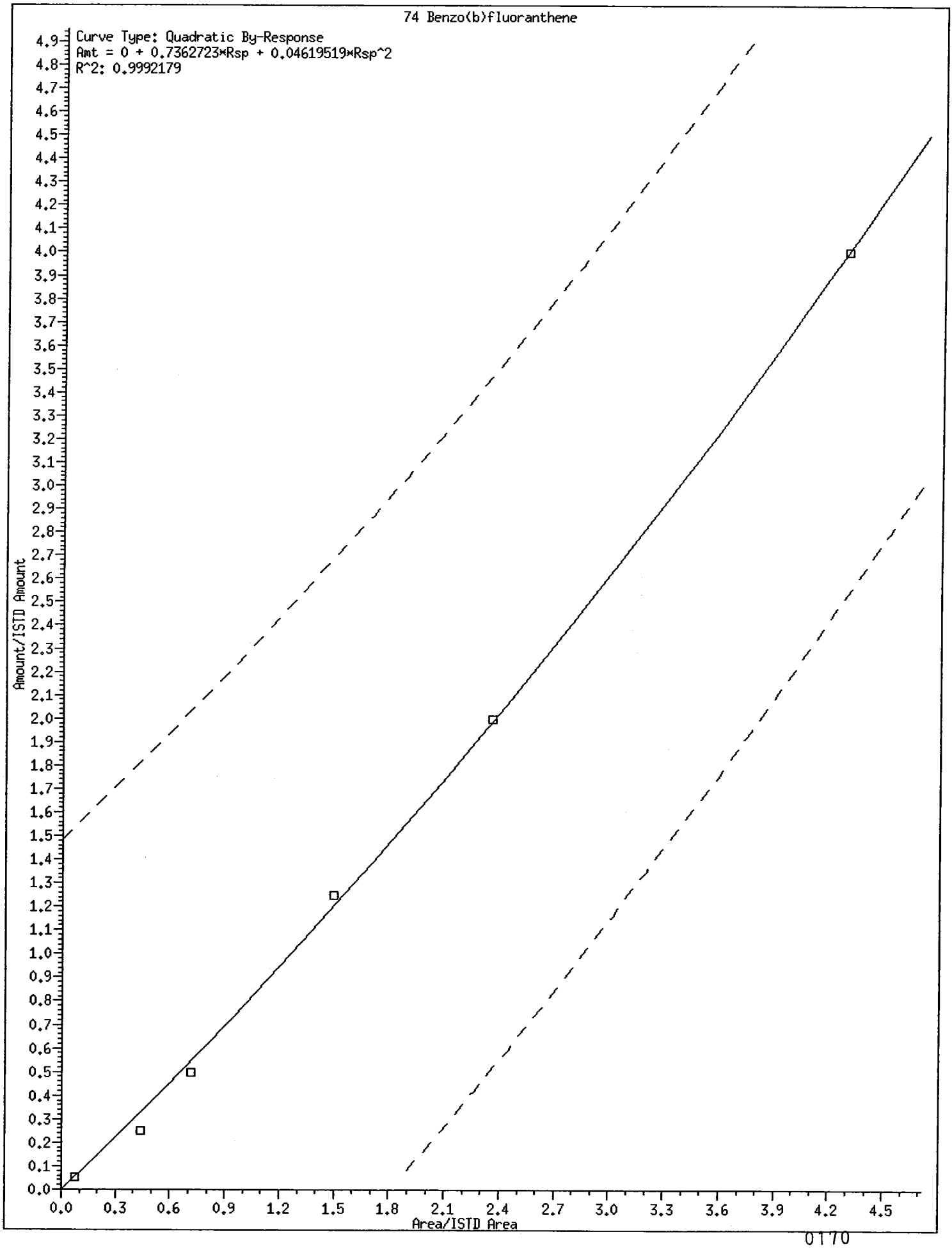

62 Carbazole
Curve Type: Quadratic By-Response
Amt = 0 + 0.7848822*Rsp + 0.05663226*Rsp^2
R^2: 0.9992594
Amount/ISTD Amount
Area/ISTD Area

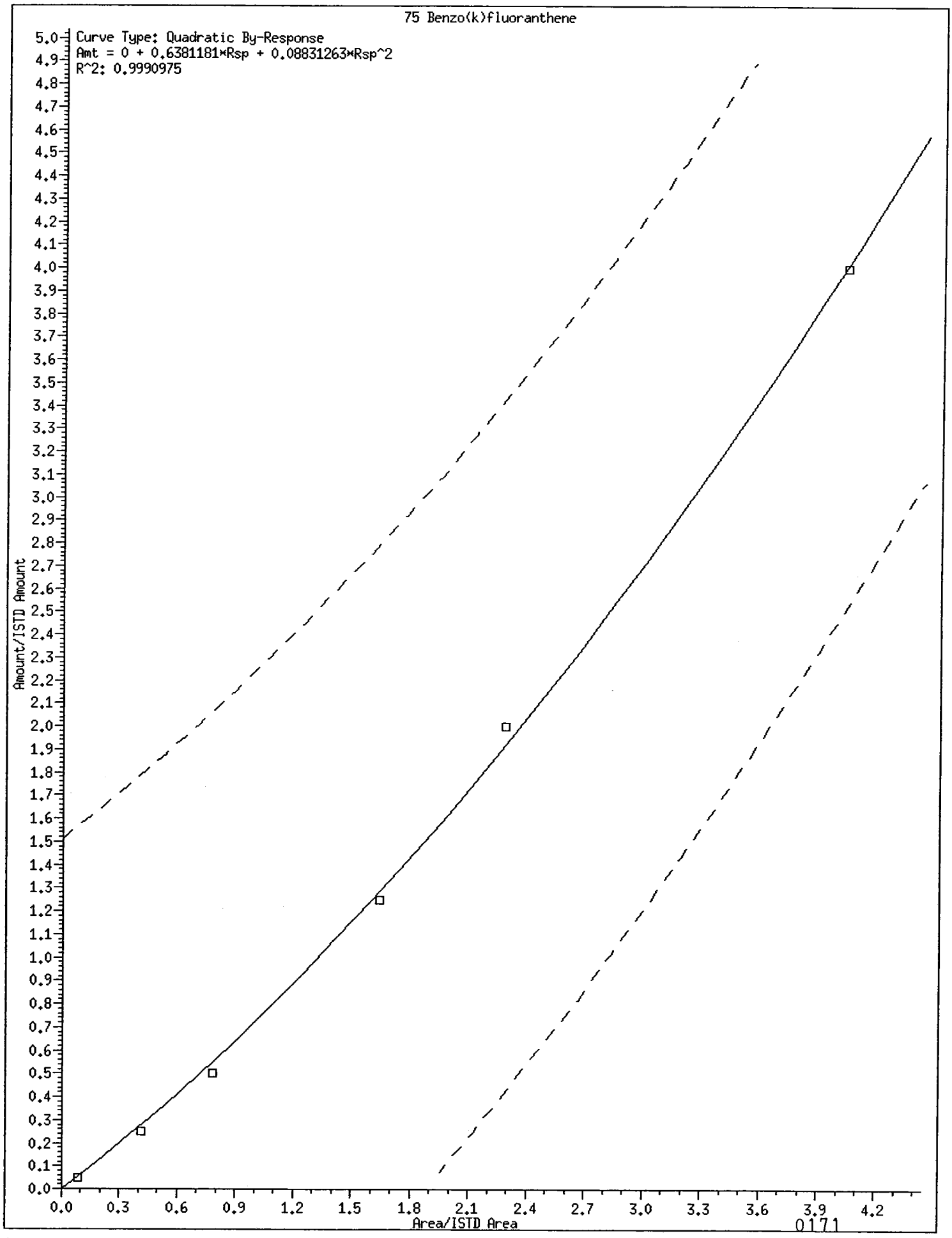

64 Fluoranthene
Curve Type: Quadratic By-Response
Amt = 0 + 0.7150163*Rsp + 0.07287064*Rsp^2
R^2: 0.9996957
Amount/ISTD Amount
Area/ISTD Area

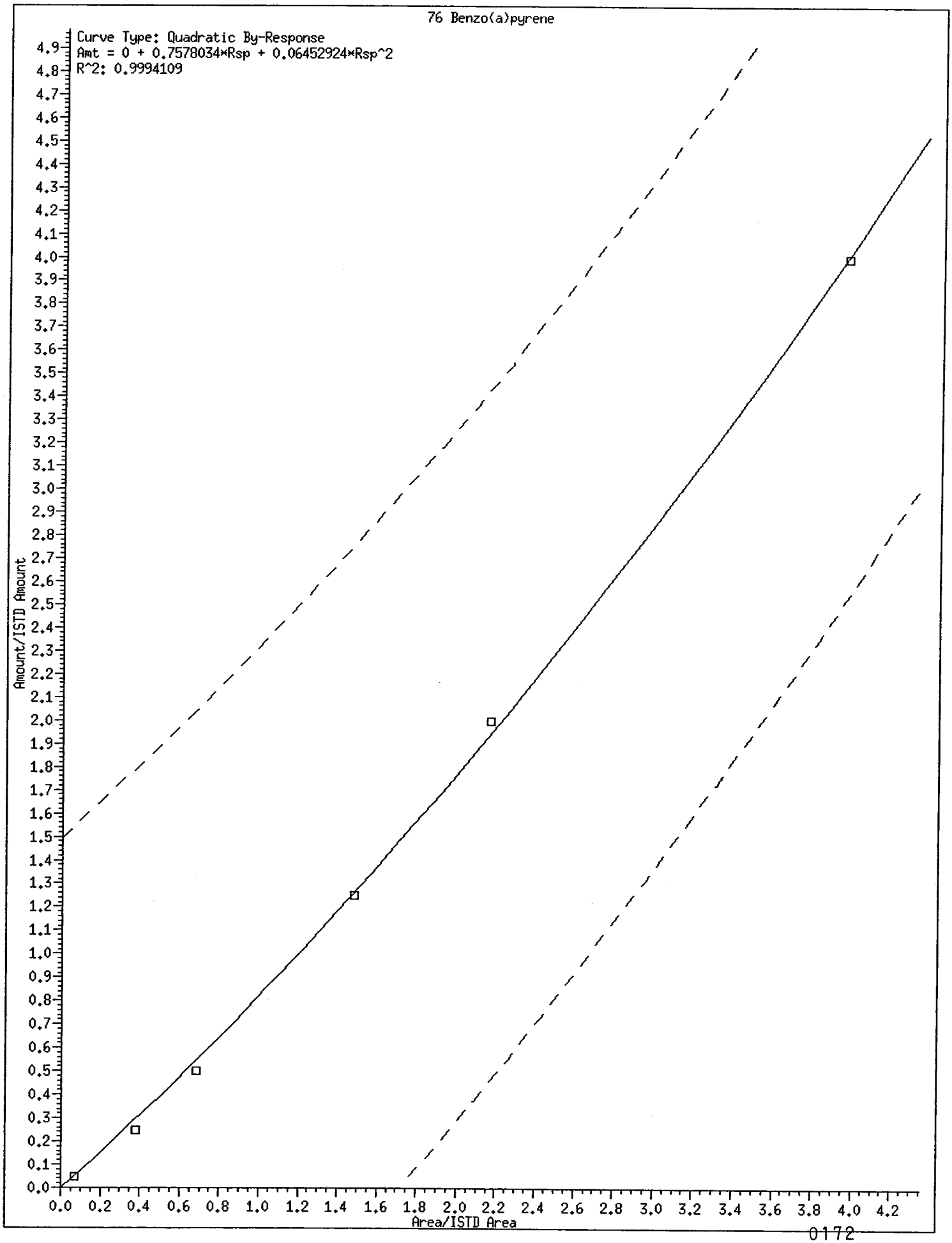

65 Pyrene
Curve Type: Quadratic By-Response
Amt = 0 + 0.6075675*Rsp + 0.03531274*Rsp^2
R^2: 0.9951870
Amount/ISTD Amount
Area/ISTD Area
0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5 4.8 5.1 5.4
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9

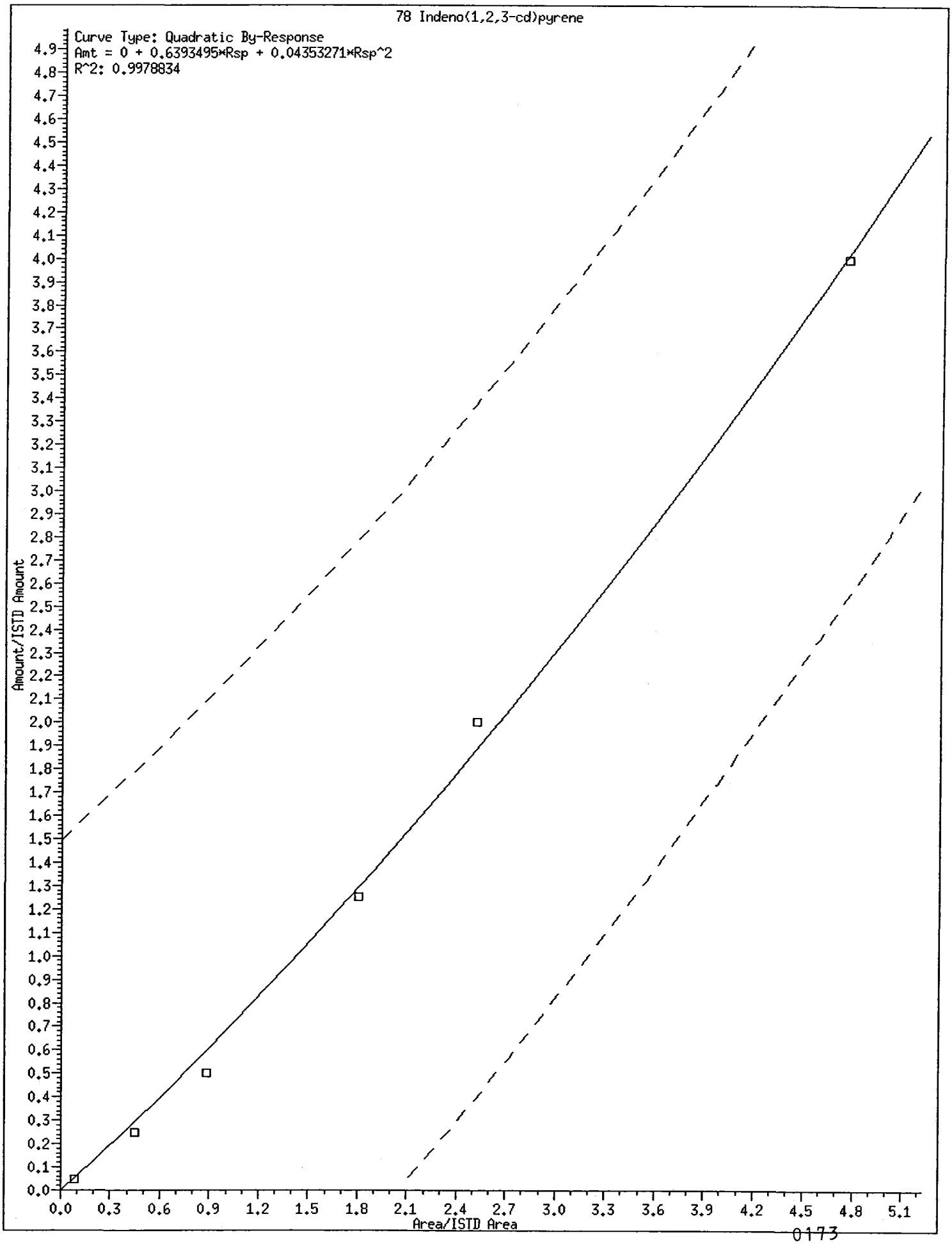

68 Benzo(a)anthracene
Curve Type: Quadratic By-Response
Amt = 0 + 0.6854696*Rsp + 0.04271353*Rsp^2
R^2: 0.9990265
Amount/ISTD Amount
Area/ISTD Area
0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5 4.8
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9

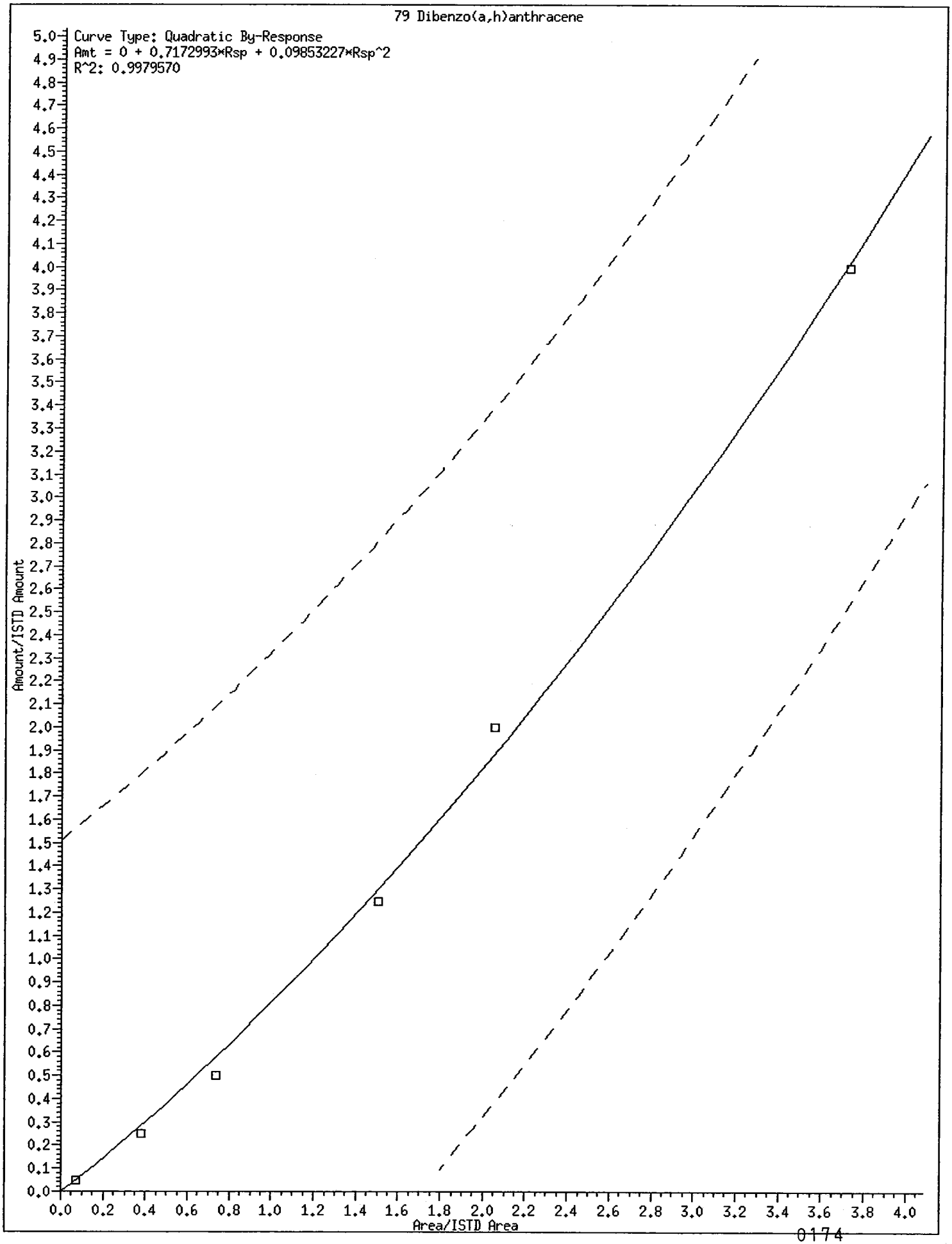

71 Chrysene
Curve Type: Quadratic By-Response
Amt = 0 + 0.6808684*Rsp + 0.0319581*Rsp^2
R^2: 0.9991614
Amount/ISTD Amount
Area/ISTD Area

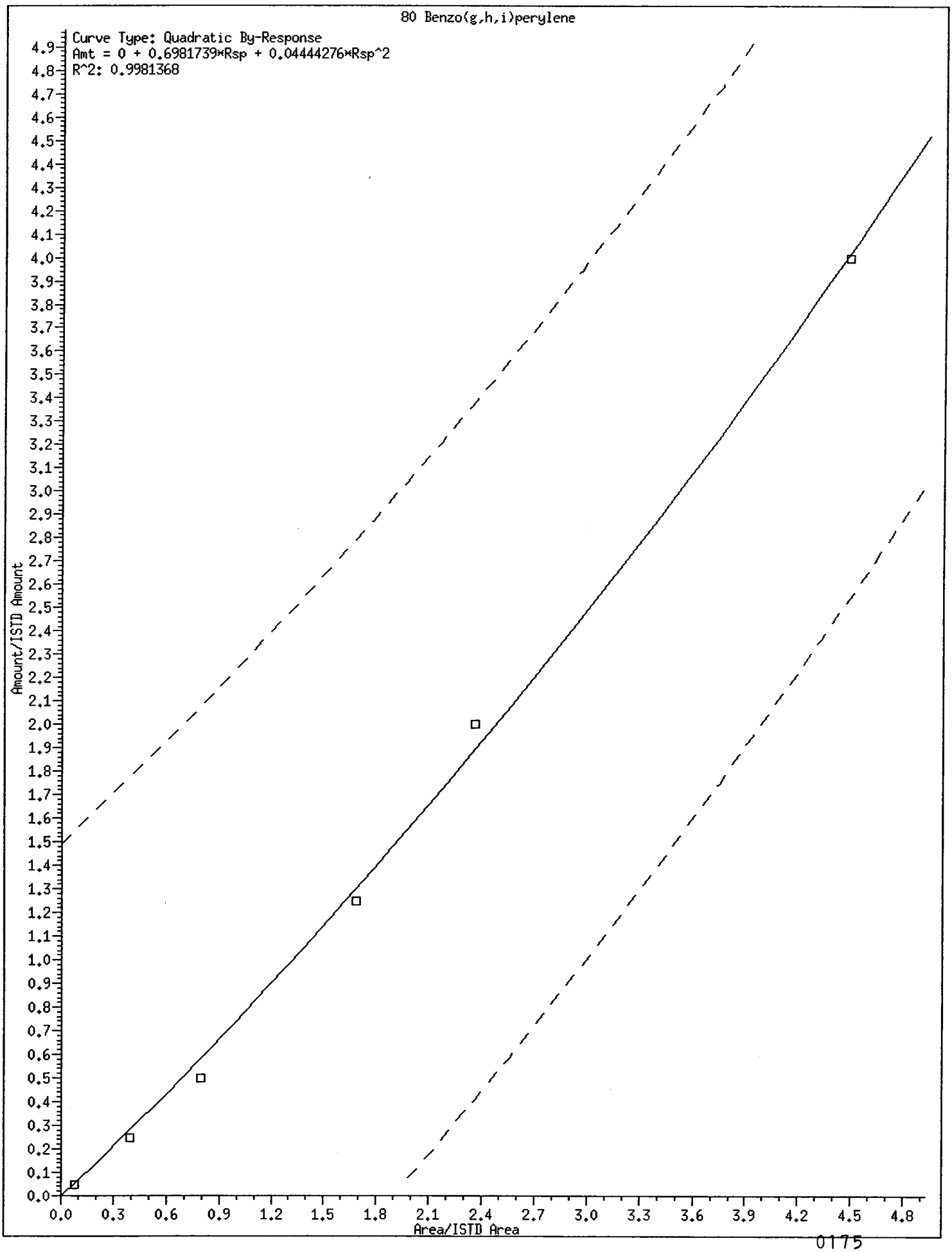

74 Benzo(b)fluoranthene
Curve Type: Quadratic By-Response
Amt = 0 + 0.7362723*Rsp + 0.04619519*Rsp^2
R^2: 0.9992179
Amount/ISTD Amount
Area/ISTD Area
0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9

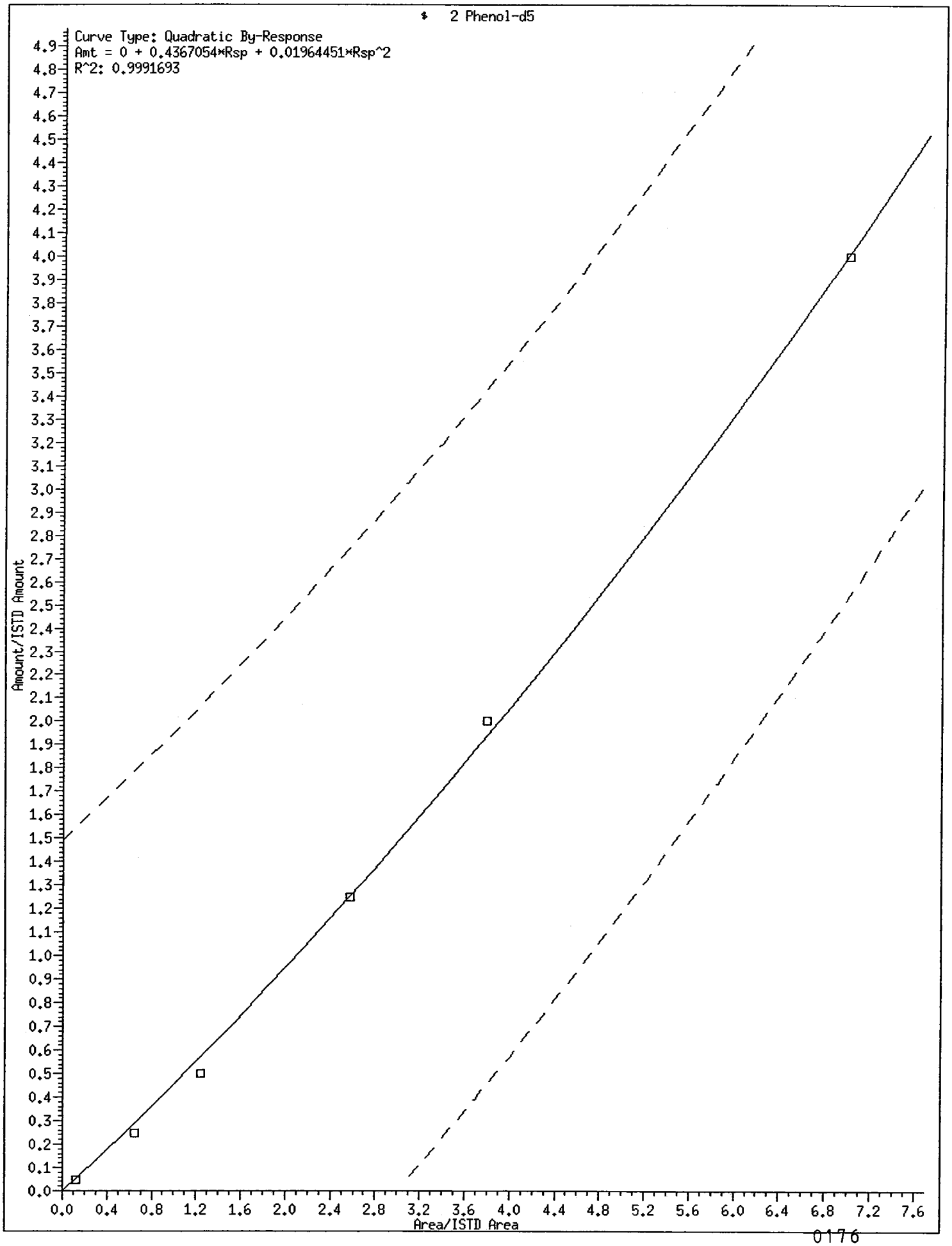

75 Benzo(k)fluoranthene
Curve Type: Quadratic By-Response
Amt = 0 + 0.6381181*Rsp + 0.08831263*Rsp^2
R^2: 0.9990975
Amount/ISTD Amount
Area/ISTD Area
0171

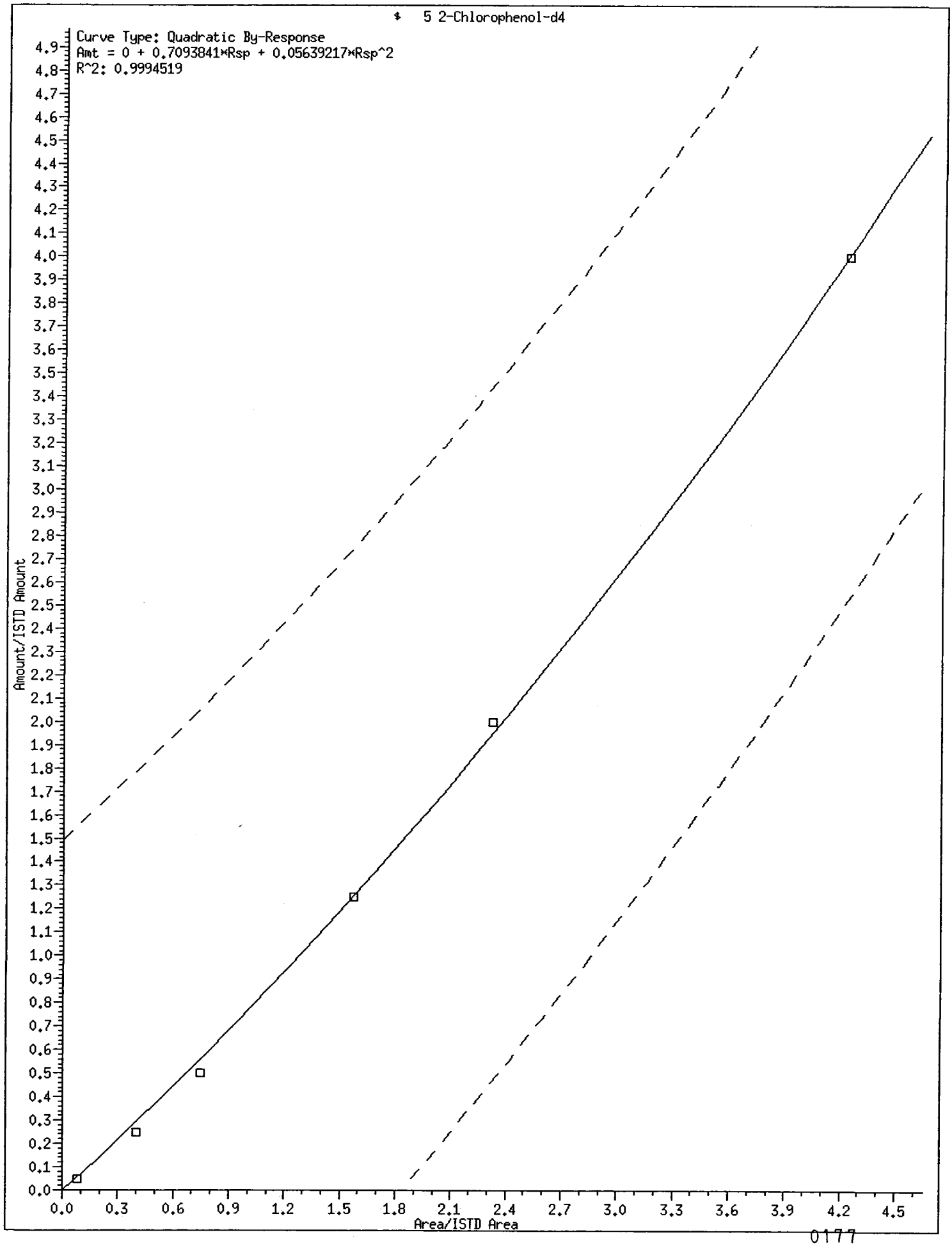

76 Benzo(a)pyrene
Curve Type: Quadratic By-Response
Amt = 0 + 0.7578034*Rsp + 0.06452924*Rsp^2
R^2: 0.9994109
Amount/ISTD Amount
Area/ISTD Area

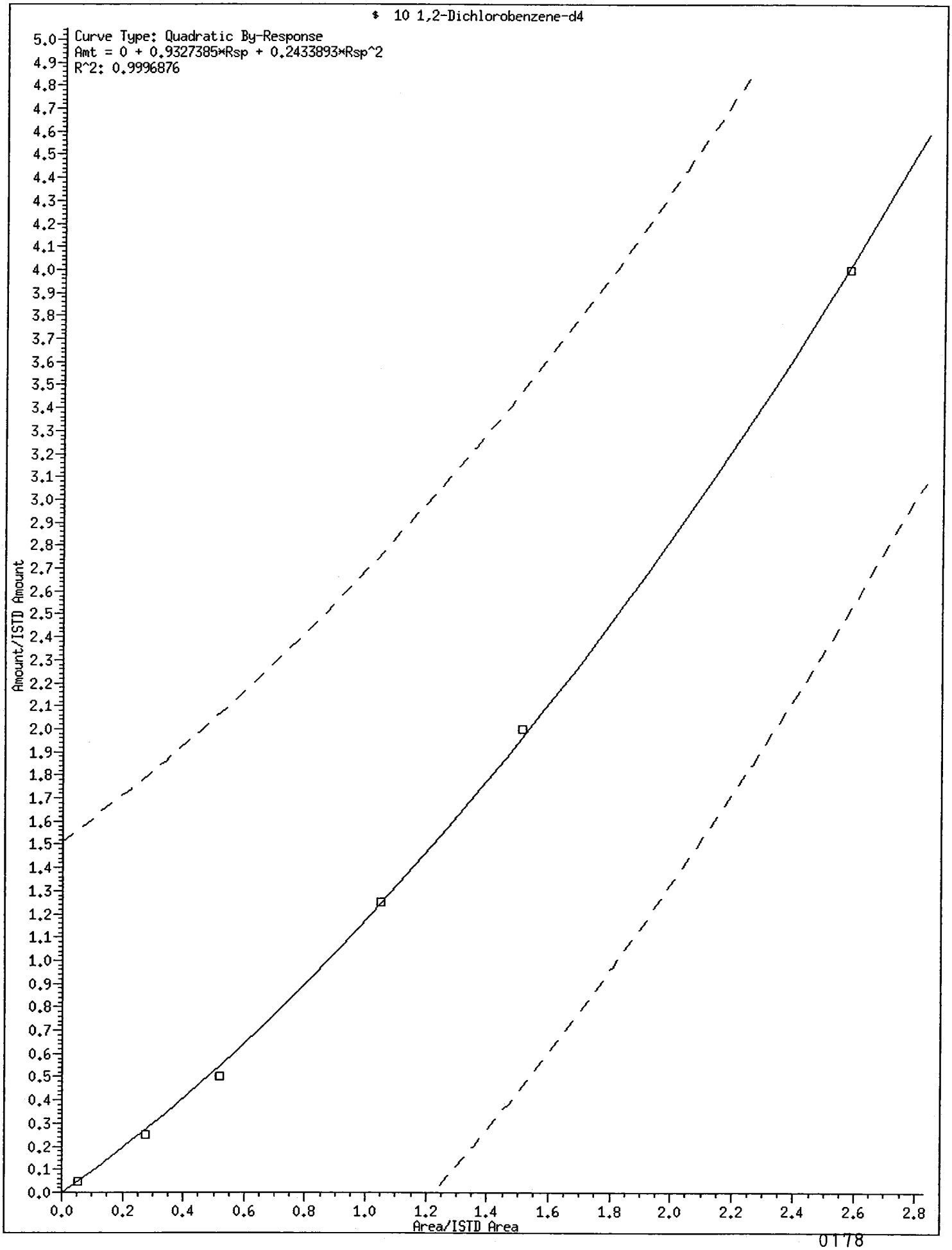

78 Indeno(1,2,3-cd)pyrene
Curve Type: Quadratic By-Response
Amt = 0 + 0.6393495*Rsp + 0.04353271*Rsp^2
R^2: 0.9978834
Amount/ISTD Amount
Area/ISTD Area
0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5 4.8 5.1
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9

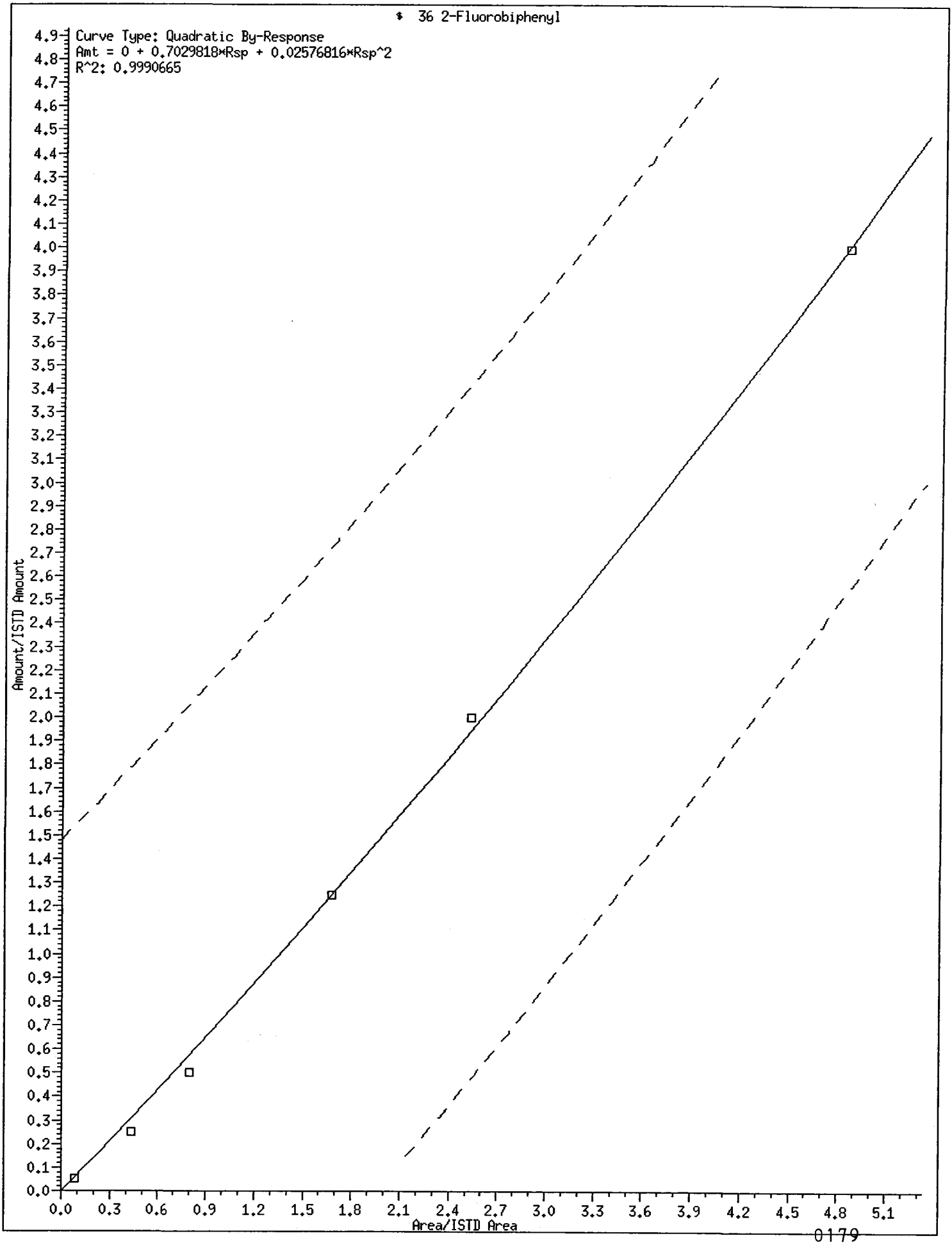

79 Dibenzo(a,h)anthracene
Curve Type: Quadratic By-Response
Amt = 0 + 0.7172993*Rsp + 0.09853227*Rsp^2
R^2: 0.9979570
Amount/ISTD Amount
Area/ISTD Area
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0

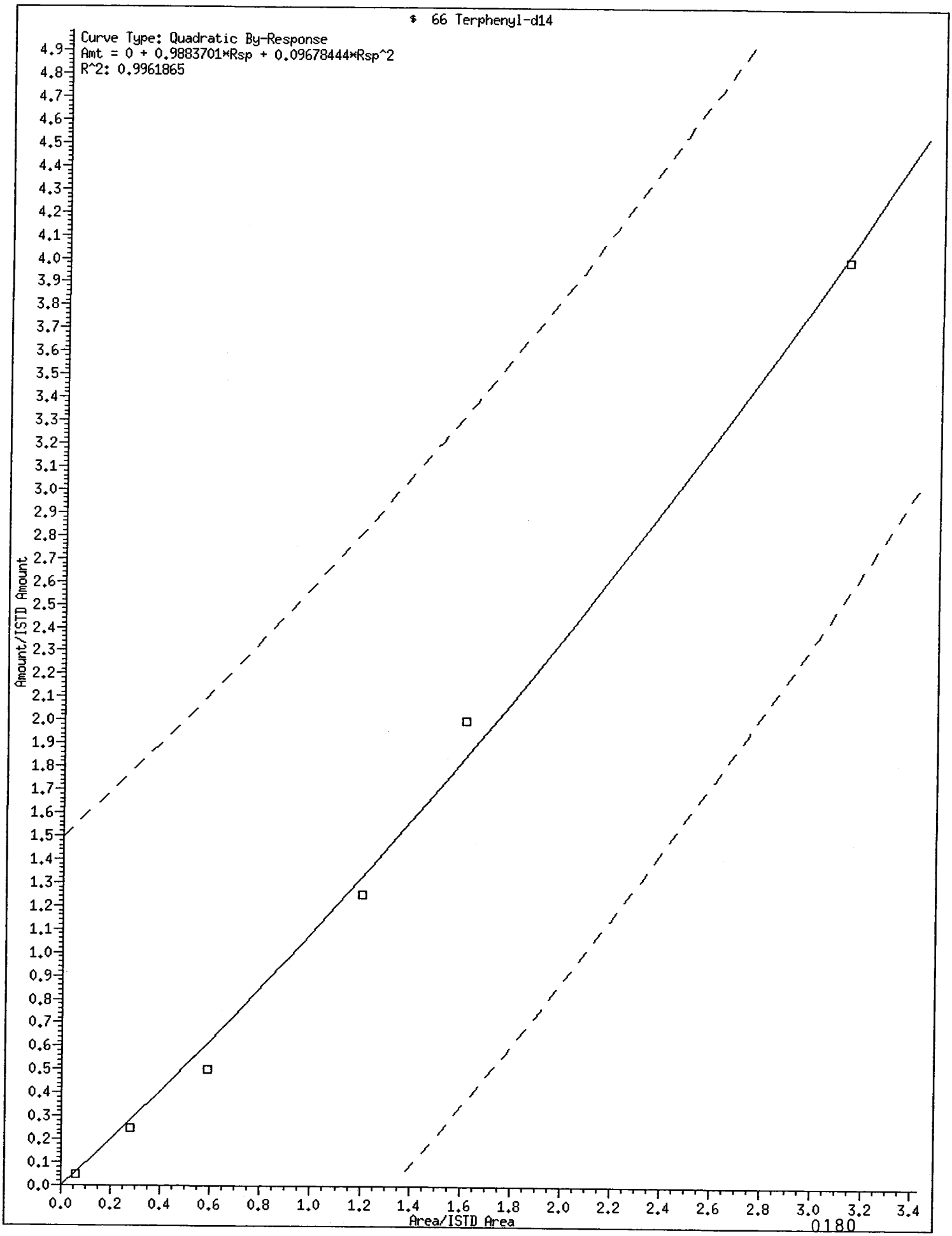

80 Benzo(g,h,i)perylene
Curve Type: Quadratic By-Response
Amt = 0 + 0.6981739*Rsp + 0.04444276*Rsp^2
R^2: 0.9981368
Amount/ISTD Amount
Area/ISTD Area
0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5 4.8
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9


2 Phenol-d5
Curve Type: Quadratic By-Response
Amt = 0 + 0.4367054*Rsp + 0.01964451*Rsp^2
R^2: 0.9991693
Amount/ISTD Amount
Area/ISTD Area


$ 5 2-Chlorophenol-d4
Curve Type: Quadratic By-Response
Amt = 0 + 0.7093841*Rsp + 0.05639217*Rsp^2
R^2: 0.9994519
Amount/ISTD Amount
Area/ISTD Area
0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9


$ 10 1,2-Dichlorobenzene-d4
Curve Type: Quadratic By-Response
Amt = 0 + 0.9327385*Rsp + 0.2433893*Rsp^2
R^2: 0.9996876
Amount/ISTD Amount
Area/ISTD Area
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0


$ 36 2-Fluorobiphenyl
Curve Type: Quadratic By-Response
Amt = 0 + 0.7029818*Rsp + 0.02576816*Rsp^2
R^2: 0.9990665
Amount/ISTD Amount
Area/ISTD Area


$ 66 Terphenyl-d14
Curve Type: Quadratic By-Response
Amt = 0 + 0.9883701*Rsp + 0.09678444*Rsp^2
R^2: 0.9961865
Amount/ISTD Amount
Area/ISTD Area
0180

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-SEP-2008 11:35
End Cal Date : 15-SEP-2008 14:30
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20080915.b/SW846.m
Cal Date : 15-Sep-2008 15:09 jeff

Calibration File Names:
Level 1: /chem1/nt6.i/20080915.b/0010915.d
Level 2: /chem1/nt6.i/20080915.b/0050915.d
Level 3: /chem1/nt6.i/20080915.b/0100915.d
Level 4: /chem1/nt6.i/20080915.b/0250915.d
Level 5: /chem1/nt6.i/20080915.b/0400915.d
Level 6: /chem1/nt6.i/20080915.b/0800915.d

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
179 n-Decane	2.79234	2.85748	2.75813	2.41248	2.24144	2.10125	AVRG		2.52718		12.62473	
180 n-Octadecane	0.99749	1.18945	1.13115	0.97855	0.91051	0.83276	AVRG		1.00665		13.27374	
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
170 N,N-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
171 2,3-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
172 2,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
173 2,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
174 2,6-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
175 3,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
176 3,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
177 p-Benzoquinone	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
168 Pentachlorobenzene	0.51675	0.55021	0.50745	0.43650	0.41160	0.39207	AVRG		0.46909		13.69072	
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-SEP-2008 11:35
End Cal Date : 15-SEP-2008 14:30
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20080915.b/SW846.m
Cal Date : 15-Sep-2008 15:09 jeff

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
147 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
148 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
149 TCMX	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
150 DCBP	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
142 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
135 2,3,5,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
136 2,3,4,5-tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
133 Butylatedhydroxytoluene	0.90934	0.98694	0.92979	0.84962	0.77558	0.67902	AVRG		0.85505		13.15473	
132 3,6-Dimethylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
144 alpha-Terpineol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-SEP-2008 11:35
End Cal Date : 15-SEP-2008 14:30
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20080915.b/SW846.m
Cal Date : 15-Sep-2008 15:09 jeff

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
123 Acetophenone	2.40356	2.43182	2.35564	2.16636	1.98933	1.91246	AVRG		2.20986		10.05791	
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
143 1,4-Dioxane	0.88137	0.95675	0.93137	0.84131	0.80260	0.78244	AVRG		0.86597		8.05989	
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
120 2,3,4,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
178 2-Benzyl-4-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
119 7,12-Dimethylbenz(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
118 Triphenyl Phosphate	1990	17146	28280	76891	124753	218309	QUAD	0.000e+00	4.26199	0.35783	0.99981	
117 Butyl Diphenyl Phosphate	0.25338	0.34573	0.37886	0.37611	0.32386	0.32272	AVRG		0.33345		13.84112	
116 Dibutyl Phenyl Phosphate	6510	54134	102317	267572	379170	717587	QUAD	0.000e+00	1.52904	0.09216	0.99991	
115 Tributyl Phosphate	0.92846	1.30779	1.38644	1.29659	1.23977	1.19841	AVRG		1.22624		12.99135	
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
111 Azobenzene (1,2-DP-Hydrazine)	2.14479	2.26458	2.14187	1.86507	1.74715	1.72032	AVRG		1.98063		11.71527	
110 Tetrachloroguaiacol	0.13076	0.14456	0.14208	0.12251	0.11164	0.10215	AVRG		0.12562		13.37855	
109 3,4,5-Trichloroguaiacol	0.12219	0.16728	0.17387	0.15753	0.14787	0.13646	AVRG		0.15086		12.85988	
181 3,4,6-Trichloroguaiacol	1619	12771	25213	61407	85602	161793	QUAD	0.000e+00	2.66323	0.35676	0.99930	
108 4,5,6-Trichloroguaiacol	0.15545	0.19984	0.21081	0.19403	0.18310	0.18597	AVRG		0.18820		10.03840	
184 3,4-Dichloroguaiacol	0.32284	0.41481	0.44947	0.39827	0.37111	0.35773	AVRG		0.38570		11.60525	
107 4,5-Dichloroguaiacol	0.32116	0.34615	0.36535	0.33736	0.32570	0.35622	AVRG		0.34199		5.04190	
182 4,6-Dichloroguaiacol	2538	17906	33353	76795	103995	166063	QUAD	0.000e+00	1.57426	1.10469	0.99994	

Analytical Resources, Inc.

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Integrator : HP RTE
Method file : /chem1/nt6.i/20080915.b/SW846.m
Cal Date : 15-Sep-2008 15:09 jeff

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
185 4-Chloroguaiacol	0.44258	0.63638	0.67375	0.64878	0.61463	0.61020	AVRG		0.60439		13.66906	
106 Guaiacol	1.08765	1.11802	1.13588	0.98841	0.90978	0.80799	AVRG		1.00796		12.92318	
105 1-methylnaphthalene	16595	87127	149286	340155	480297	859888	QUAD	0.000e+00	1.60881	0.34157	0.99947	
151 1,2,4,5-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
156 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
157 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
158 Ethion	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
159 4-Nonylphenol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
160 Tetraethyl Tin	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
161 1,2,3-Trichloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
162 1,2,3,4-Tetrachloronapthalene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
163 1,2,3,5,8-Pentachloronaphthal	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
164 1,2,3,4,6,7-Hexachloronaphtha	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
165 1,2,3,4,5,6,7-Heptachloronaph	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
166 Octachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
167 2,2',4,4',5-Pentabromobipheny	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
3 Phenol	19429	101349	181605	402653	560941	1008238	QUAD	0.000e+00	0.37197	0.01617	0.99925	
4 Bis(2-Chloroethyl)ether	2.11604	2.22133	2.09436	1.80750	1.69412	1.51847	AVRG		1.90864		14.51520	

Analytical Resources, Inc.

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Integrator : HP RTE
Method file : /chem1/nt6.i/20080915.b/SW846.m
Cal Date : 15-Sep-2008 15:09 jeff

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
6 2-Chlorophenol	1.76607	1.86172	1.77759	1.51062	1.39803	1.29469	AVRG		1.60145		14.49959
7 1,3-Dichlorobenzene	12798	65589	113232	258986	374272	677605	QUAD	0.000e+00	0.58789	0.02923	0.99963
9 1,4-Dichlorobenzene	12692	65573	111906	258321	366538	657056	QUAD	0.000e+00	0.58325	0.03554	0.99963
11 Benzyl alcohol	1.36654	1.57558	1.53552	1.27872	1.18644	1.02986	AVRG		1.32878		15.68519
12 1,2-Dichlorobenzene	12230	61776	106033	241018	341772	594605	QUAD	0.000e+00	0.59743	0.05327	0.99976
13 2-Methylphenol	1.78608	1.94068	1.86305	1.63304	1.51633	1.42488	AVRG		1.69401		11.97090
14 2,2'-oxybis(1-Chloropropane)	3.42119	3.46116	3.23671	2.91306	2.68935	2.48043	AVRG		3.03365		13.29474
15 4-Methylphenol	1.87156	2.02860	1.97111	1.64766	1.52468	1.39436	AVRG		1.73966		14.73091
16 N-Nitroso-di-n-propylamine	1.36199	1.54194	1.44717	1.29461	1.23659	1.18205	AVRG		1.34406		10.00146
17 Hexachloroethane	0.77800	0.82982	0.79400	0.70136	0.66930	0.60688	AVRG		0.72989		11.62985
19 Nitrobenzene	14352	77235	133711	305695	435806	785988	QUAD	0.000e+00	1.81308	0.37630	0.99952
20 Isophorone	0.95376	1.03107	0.95654	0.83941	0.78488	0.78088	AVRG		0.89109		11.65205
21 2-Nitrophenol	+++++	0.24502	0.24484	0.22209	0.20414	0.19832	AVRG		0.22288		9.84913
22 2,4-Dimethylphenol	0.47507	0.52556	0.50848	0.42881	0.39313	0.37107	AVRG		0.45035		13.92729
23 Bis(2-Chloroethoxy)methane	0.67745	0.69060	0.64080	0.55539	0.51994	0.48432	AVRG		0.59475		14.55878
24 Benzoic acid	+++++	0.37362	0.38629	0.37661	0.35737	0.37853	AVRG		0.37449		2.84446
25 2,4-Dichlorophenol	+++++	44666	81829	184772	248152	464777	QUAD	0.000e+00	3.13687	1.01272	0.99775
26 1,2,4-Trichlorobenzene	8948	46927	80873	186922	268276	483621	QUAD	0.000e+00	2.97268	0.96680	0.99963
28 Naphthalene	32716	170681	295668	669825	939878	1652359	QUAD	0.000e+00	0.79386	0.10495	0.99958
29 4-Chloroaniline	+++++	0.59247	0.55673	0.46896	0.42204	0.37142	AVRG		0.48232		19.05343
30 Hexachlorobutadiene	4653	25311	43050	98541	142198	255007	QUAD	0.000e+00	5.58158	3.58115	0.99962
31 4-Chloro-3-methylphenol	+++++	54021	99366	225698	317485	584747	QUAD	0.000e+00	2.52665	0.60845	0.99909

Analytical Resources, Inc.

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Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20080915.b/SW846.m
Cal Date : 15-Sep-2008 15:09 jeff

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
32 2-Methylnaphthalene	16028	86785	154406	337919	477894	834293	QUAD	0.000e+00	1.54435	0.42767	0.99951
33 Hexachlorocyclopentadiene	+++++	0.30734	0.30642	0.31667	0.32854	0.32579	AVRG		0.31695		3.21695
34 2,4,6-Trichlorophenol	+++++	0.46681	0.45727	0.40297	0.38030	0.37356	AVRG		0.41618		10.42557
35 2,4,5-Trichlorophenol	+++++	0.50227	0.48446	0.42348	0.39864	0.38832	AVRG		0.43943		11.66344
37 2-Chloronaphthalene	1.53211	1.58723	1.45423	1.25480	1.18567	1.12101	AVRG		1.35584		14.32474
38 2-Nitroaniline	+++++	0.57788	0.58825	0.54558	0.52831	0.55250	AVRG		0.55850		4.36292
39 Dimethylphthalate	1.50621	1.61264	1.52306	1.32610	1.26058	1.28016	AVRG		1.41813		10.40812
40 Acenaphthylene	2.20563	2.40032	2.23570	1.92109	1.81251	1.71989	AVRG		2.04919		13.15622
41 2,6-Dinitrotoluene	+++++	0.32439	0.32026	0.30014	0.28650	0.30213	AVRG		0.30668		5.07500
43 3-Nitroaniline	+++++	0.44089	0.43195	0.35908	0.30830	0.27229	AVRG		0.36250		20.48406
44 Acenaphthene	1.51390	1.55217	1.42678	1.21955	1.15567	1.11460	AVRG		1.33045		14.32178
45 2,4-Dinitrophenol	+++++	0.14840	0.16192	0.18607	0.18576	0.18398	AVRG		0.17322		9.92234
46 Dibenzofuran	24379	126056	226189	489869	673421	1175949	QUAD	0.000e+00	0.55396	0.02851	0.99921
47 4-Nitrophenol	+++++	0.23066	0.23451	0.22291	0.21669	0.21820	AVRG		0.22459		3.45837
48 2,4-Dinitrotoluene	+++++	0.42818	0.42677	0.40254	0.39073	0.40755	AVRG		0.41115		3.91841
49 Fluorene	20124	106402	180663	398886	539868	927656	QUAD	0.000e+00	0.66713	0.05376	0.99929
50 Diethylphthalate	1.57698	1.69371	1.58961	1.36736	1.29428	1.26609	AVRG		1.46467		12.16041
51 4-Chlorophenyl-phenylether	8703	44051	77266	169158	233618	402521	QUAD	0.000e+00	1.58050	0.26254	0.99943
52 4-Nitroaniline	+++++	0.41010	0.42898	0.38756	0.37075	0.39574	AVRG		0.39863		5.55407
53 4,6-Dinitro-2-methylphenol	+++++	0.16621	0.16826	0.16547	0.15836	0.15576	AVRG		0.16281		3.33247
54 N-Nitrosodiphenylamine	0.56063	0.61288	0.56906	0.49244	0.47021	0.44375	AVRG		0.52483		12.52230
56 4-Bromophenyl-phenylether	0.26846	0.29690	0.27526	0.24148	0.22612	0.20602	AVRG		0.25237		13.40403

Analytical Resources, Inc.

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Integrator : HP RTE
Method file : /chem1/nt6.i/20080915.b/SW846.m
Cal Date : 15-Sep-2008 15:09 jeff

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
57 Hexachlorobenzene	5136	25538	45396	101557	140115	256863	QUAD	0.000e+00	3.74965	1.36910	0.99945
58 Pentachlorophenol	+++++	0.20539	0.19481	0.17340	0.16353	0.15546	AVRG		0.17852		11.78494
60 Phenanthrene	26619	136482	243360	532755	727532	1320775	QUAD	0.000e+00	0.70117	0.05852	0.99929
61 Anthracene	26194	139048	242256	532280	725340	1312255	QUAD	0.000e+00	0.69798	0.06114	0.99929
62 Carbazole	22778	124504	221804	485529	673059	1240538	QUAD	0.000e+00	0.78488	0.05663	0.99926
63 Di-n-butylphthalate	1.50959	1.86256	1.74106	1.51758	1.43021	1.28741	AVRG		1.55807		13.45662
64 Fluoranthene	24118	130374	227195	506043	704236	1244410	QUAD	0.000e+00	0.71502	0.07287	0.99970
65 Pyrene	25650	137815	237419	519894	727570	1275077	QUAD	0.000e+00	0.60757	0.03531	0.99519
67 Butylbenzylphthalate	0.61131	0.80628	0.79936	0.78336	0.74091	0.71468	AVRG		0.74265		9.88755
68 Benzo(a)anthracene	21668	124120	191598	441959	680508	1138185	QUAD	0.000e+00	0.68547	0.04271	0.99903
70 3,3'-Dichlorobenzidine	+++++	0.57139	0.51611	0.44851	0.39923	0.32725	AVRG		0.45250		21.17488
71 Chrysene	22150	126970	196805	450012	709011	1200115	QUAD	0.000e+00	0.68087	0.03196	0.99916
72 bis(2-Ethylhexyl)phthalate	0.39708	0.56776	0.62886	0.58286	0.57359	0.58207	AVRG		0.55537		14.49711
73 Di-n-octylphthalate	1.08050	1.24251	1.21960	1.12908	1.08560	1.09809	AVRG		1.14256		6.21102
74 Benzo(b)fluoranthene	24871	154872	204737	506039	850378	1473182	QUAD	0.000e+00	0.73627	0.04620	0.99922
75 Benzo(k)fluoranthene	26484	147698	225427	554719	827482	1387133	QUAD	0.000e+00	0.63812	0.08831	0.99910
76 Benzo(a)pyrene	22046	136002	196413	500881	783287	1360306	QUAD	0.000e+00	0.75780	0.06453	0.99941
78 Indeno(1,2,3-cd)pyrene	26373	159105	253155	609961	910683	1632547	QUAD	0.000e+00	0.63935	0.04353	0.99788
79 Dibenzo(a,h)anthracene	22253	134371	212456	508961	741288	1275733	QUAD	0.000e+00	0.71730	0.09853	0.99796
80 Benzo(g,h,i)perylene	24471	140643	229013	570363	851915	1538817	QUAD	0.000e+00	0.69817	0.04444	0.99814
90 N-Nitrosodimethylamine	+++++	1.39190	1.35483	1.23587	1.18351	1.19225	AVRG		1.27167		7.53544
91 Aniline	+++++	3.32777	3.06712	2.59661	2.29459	2.17331	AVRG		2.69188		18.39706

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Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
93 Benzidine	+++++	0.77179	0.62523	0.60907	0.41309	0.44947	AVRG		0.57373		25.31439	
96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
98 Retene	0.64427	0.68181	0.72554	0.63589	0.51791	0.51507	AVRG		0.62008		13.91636	
99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
103 Pyridine	+++++	2.17139	2.16323	2.02806	1.90373	1.81494	AVRG		2.01627		7.80268	
$ 1 2-Fluorophenol	+++++	1.81832	1.79424	1.56338	1.46276	1.38714	AVRG		1.60517		12.09406	
$ 137 d8-1,4-Dioxane	+++++	0.89622	0.90621	0.80606	0.77379	0.75036	AVRG		0.82653		8.59966	
$ 2 Phenol-d5	16639	88135	157506	345661	486018	880718	QUAD	0.000e+00	0.43671	0.01964	0.99917	
$ 5 2-Chlorophenol-d4	10278	54012	93837	210910	297410	533009	QUAD	0.000e+00	0.70938	0.05639	0.99945	
$ 10 1,2-Dichlorobenzene-d4	7178	37120	65328	140800	193680	323995	QUAD	0.000e+00	0.93274	0.24339	0.99969	
$ 18 Nitrobenzene-d5	+++++	0.58027	0.55853	0.48894	0.45790	0.43928	AVRG		0.50498		12.25755	
$ 36 2-Fluorobiphenyl	20544	105840	183367	401320	560546	1014458	QUAD	0.000e+00	0.70298	0.02577	0.99907	
$ 55 2,4,6-Tribromophenol	+++++	0.20081	0.19613	0.16816	0.16245	0.16161	AVRG		0.17783		10.73065	
$ 66 Terphenyl-d14	15287	81583	145303	314693	450186	778413	QUAD	0.000e+00	0.98837	0.09678	0.99619	
$ 85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
$ 86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-SEP-2008 11:35
End Cal Date : 15-SEP-2008 14:30
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20080915.b/SW846.m
Cal Date : 15-Sep-2008 15:09 jeff

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
$ 87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
$ 88 Dibenz(a,h)anthracene-d14	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
$ 89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
$ 95 D10-1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-

0189

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-SEP-2008 11:35
End Cal Date : 15-SEP-2008 14:30
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/nt6.i/20080915.b/SW846.m
Cal Date : 15-Sep-2008 15:09 jeff

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20080915.b/0010915.d
Lab Smp Id: ABN 1
Inj Date : 15-SEP-2008 12:45
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : ABN 1
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20080915.b/SW846.m
Meth Date : 15-Sep-2008 16:18 jeff Quant Type: ISTD
Cal Date : 15-SEP-2008 12:45 Cal File: 0010915.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: GUAIACAL.sub
Target Version: 3.50

LJR 9/15/08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	137 d8-1,4-Dioxane	96	2.773	2.769	(0.339)	5729	1.00000	1.077
	143 1,4-Dioxane	88	2.827	2.822	(0.346)	5815	1.00000	1.023
	103 Pyridine	79	3.633	3.543	(0.444)	11375	1.00000	0.8501 (M)
	90 N-Nitrosodimethylamine	74	3.553	3.538	(0.435)	8320	1.00000	1.020
$	1 2-Fluorophenol	112	6.187	6.188	(0.757)	11381	1.00000	1.103
	91 Aniline	93	7.720	7.721	(0.944)	21741	1.00000	1.269
$	2 Phenol-d5	99	7.715	7.721	(0.944)	16639	1.00000	1.226
	3 Phenol	94	7.731	7.737	(0.946)	19429	1.00000	1.103
	4 Bis(2-Chloroethyl)ether	93	7.838	7.839	(0.959)	13961	1.00000	1.079
$	5 2-Chlorophenol-d4	132	7.864	7.865	(0.962)	10278	1.00000	1.108
	6 2-Chlorophenol	128	7.886	7.887	(0.965)	11652	1.00000	1.078
	179 n-Decane	57	8.003	8.004	(0.979)	18423	1.00000	1.073
	7 1,3-Dichlorobenzene	146	8.110	8.111	(0.992)	12798	1.00000	1.115
*	8 1,4-Dichlorobenzene-d4	152	8.174	8.175	(1.000)	131954	20.0000	
	9 1,4-Dichlorobenzene	146	8.195	8.197	(1.003)	12692	1.00000	1.112
	11 Benzyl alcohol	108	8.447	8.448	(1.033)	9016	1.00000	1.033
$	10 1,2-Dichlorobenzene-d4	152	8.473	8.474	(1.037)	7178	1.00000	1.130
	12 1,2-Dichlorobenzene	146	8.495	8.496	(1.039)	12230	1.00000	1.128
	13 2-Methylphenol	108	8.676	8.677	(1.061)	11784	1.00000	1.045
	14 2,2'-oxybis(1-Chloropropane)	45	8.719	8.720	(1.067)	22572	1.00000	1.080
	123 Acetophenone	105	8.869	8.870	(1.085)	15858	1.00000	1.052
	15 4-Methylphenol	108	8.906	8.912	(1.090)	12348	1.00000	1.064
	16 N-Nitroso-di-n-propylamine	70	8.927	8.928	(1.092)	8986	1.00000	1.025
	17 Hexachloroethane	117	8.986	8.987	(1.099)	5133	1.00000	1.052
$	18 Nitrobenzene-d5	82	9.104	9.105	(0.890)	12094	1.00000	1.027
	106 Guaiacol	124	9.130	9.137	(1.117)	7176	1.00000	1.048
	19 Nitrobenzene	77	9.130	9.137	(0.893)	14352	1.00000	1.097

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	20 Isophorone	82	9.515	9.516	(0.930)	22961	1.00000	1.064
	21 2-Nitrophenol	139	9.654	9.655	(0.944)	5130	1.00000	0.9595
	22 2,4-Dimethylphenol	107	9.755	9.756	(0.954)	11437	1.00000	1.051
	23 Bis(2-Chloroethoxy)methane	93	9.910	9.911	(0.969)	16309	1.00000	1.099
	25 2,4-Dichlorophenol	162	10.028	10.034	(0.981)	8133	1.00000	1.138
	24 Benzoic acid	105	9.852	9.943	(0.963)	11046	5.00000	1.218
	26 1,2,4-Trichlorobenzene	180	10.172	10.173	(0.995)	8948	1.00000	1.106
*	27 Naphthalene-d8	136	10.226	10.227	(1.000)	481484	20.0000	
	28 Naphthalene	128	10.258	10.259	(1.003)	32716	1.00000	1.116
	29 4-Chloroaniline	127	10.396	10.403	(1.017)	13322	1.00000	1.180
	30 Hexachlorobutadiene	225	10.583	10.584	(1.035)	4653	1.00000	1.100
	185 4-Chloroguaiacol	115	11.160	11.156	(1.365)	1460	0.50000	0.4055
	31 4-Chloro-3-methylphenol	107	11.203	11.204	(1.096)	8570	1.00000	0.9820
	32 2-Methylnaphthalene	141	11.385	11.386	(1.113)	16028	1.00000	1.102
	105 1-methylnaphthalene	141	11.561	11.562	(1.131)	16595	1.00000	1.116
	33 Hexachlorocyclopentadiene	237	11.769	11.770	(0.898)	2527	1.00000	0.6605
	34 2,4,6-Trichlorophenol	196	11.898	11.899	(0.908)	4664	1.00000	0.9580
	35 2,4,5-Trichlorophenol	196	11.951	11.952	(0.912)	4711	1.00000	0.9208
$	36 2-Fluorobiphenyl	172	12.031	12.032	(0.918)	20544	1.00000	1.272
	37 2-Chloronaphthalene	162	12.170	12.171	(0.928)	18510	1.00000	1.100
	184 3,4-Dichloroguaiacol	192	12.245	12.251	(1.498)	2130	1.00000	0.8954
	38 2-Nitroaniline	65	12.400	12.401	(0.946)	4538	1.00000	0.6885
	39 Dimethylphthalate	163	12.774	12.780	(0.974)	18197	1.00000	1.064
	40 Acenaphthylene	152	12.854	12.855	(0.980)	26647	1.00000	1.069
	41 2,6-Dinitrotoluene	165	12.870	12.876	(0.982)	2404	1.00000	0.6630
	107 4,5-Dichloroguaiacol	192	13.030	13.042	(0.994)	3880	1.00000	0.9754 (H)
	182 4,6-Dichloroguaiacol	192	13.057	13.063	(1.597)	2538	1.00000	0.9141
	43 3-Nitroaniline	138	13.078	13.085	(0.998)	3749	1.00000	0.8642
*	42 Acenaphthene-d10	164	13.110	13.111	(1.000)	241627	20.0000	
	44 Acenaphthene	153	13.158	13.159	(1.004)	18290	1.00000	1.108
	45 2,4-Dinitrophenol	184	13.244	13.250	(1.010)	455	5.00000	0.2024 (M)
	133 Butylatedhydroxytoluene	205	13.281	13.282	(1.013)	10986	1.00000	1.034
	47 4-Nitrophenol	109	13.372	13.368	(1.020)	1811	1.00000	0.6725
	46 Dibenzofuran	168	13.420	13.421	(1.024)	24379	1.00000	1.106
	168 Pentachlorobenzene	250	13.463	13.464	(1.027)	6243	1.00000	1.084
	48 2,4-Dinitrotoluene	165	13.500	13.501	(1.030)	3584	1.00000	0.7370
	181 3,4,6-Trichloroguaiacol	211	13.799	13.800	(1.688)	1619	1.00000	0.8035
	109 3,4,5-Trichloroguaiacol	213	13.917	13.918	(0.898)	2009	1.00000	0.8736
	50 Diethylphthalate	149	13.933	13.939	(1.063)	19052	1.00000	1.071
	49 Fluorene	166	13.981	13.982	(1.066)	20124	1.00000	1.112
	51 4-Chlorophenyl-phenylether	204	14.002	14.003	(1.068)	8703	1.00000	1.122
	52 4-Nitroaniline	138	14.072	14.078	(1.073)	3479	1.00000	0.7430
	53 4,6-Dinitro-2-methylphenol	198	14.152	14.158	(0.913)	2227	5.00000	0.8186
	54 N-Nitrosodiphenylamine	169	14.205	14.206	(0.917)	9218	1.00000	1.065
	111 Azobenzene (1,2-DP-Hydrazine)	77	14.253	14.254	(1.087)	25912	1.00000	1.070
	115 Tributyl Phosphate	99	14.296	14.303	(0.923)	15266	1.00000	0.8346 (M)
$	55 2,4,6-Tribromophenol	330	14.403	14.404	(1.099)	2049	1.00000	1.009

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
56	4-Bromophenyl-phenylether	248	14.788	14.794	(0.954)	4414	1.00000	1.053
108	4,5,6-Trichloroguaiacol	213	14.836	14.837	(1.132)	1878	1.00000	0.8896
57	Hexachlorobenzene	284	15.012	15.013	(0.969)	5136	1.00000	1.130
58	Pentachlorophenol	266	15.306	15.307	(0.988)	2166	1.00000	0.7597
180	n-Octadecane	57	15.407	15.408	(0.994)	16401	1.00000	1.010
110	Tetrachloroguaiacol	247	15.434	15.435	(0.996)	4300	2.00000	2.065
* 59	Phenanthrene-d10	188	15.493	15.499	(1.000)	328844	20.0000	
60	Phenanthrene	178	15.530	15.537	(1.002)	26619	1.00000	1.124
61	Anthracene	178	15.600	15.606	(1.007)	26194	1.00000	1.116
62	Carbazole	167	15.883	15.889	(1.025)	22778	1.00000	1.093
116	Dibutyl Phenyl Phosphate	175	16.043	16.044	(1.036)	6510	1.00000	0.7687
63	Di-n-butylphthalate	149	16.604	16.605	(1.072)	24821	1.00000	0.9974
64	Fluoranthene	202	17.480	17.481	(1.128)	24118	1.00000	1.100
93	Benzidine	184	17.731	17.727	(0.894)	7459	1.00000	0.9197
117	Butyl Diphenyl Phosphate	94	17.742	17.743	(0.895)	3374	1.00000	0.8050
65	Pyrene	202	17.838	17.839	(0.900)	25650	1.00000	1.096
$ 66	Terphenyl-d14	244	18.148	18.149	(0.915)	15287	1.00000	1.088
98	Retene	219	18.399	18.400	(0.928)	8579	1.00000	1.007
67	Butylbenzylphthalate	149	19.035	19.036	(0.960)	8140	1.00000	0.8766
118	Triphenyl Phosphate	326	19.350	19.356	(0.976)	1990	1.00000	0.7774
68	Benzo(a)anthracene	228	19.804	19.805	(0.999)	21668	1.00000	1.093
70	3,3'-Dichlorobenzidine	252	19.815	19.810	(0.999)	5422	1.00000	0.9079
* 69	Chrysene-d12	240	19.831	19.832	(1.000)	266315	20.0000	
71	Chrysene	228	19.868	19.874	(1.002)	22150	1.00000	1.095
72	bis(2-Ethylhexyl)phthalate	149	20.028	20.029	(0.955)	8979	1.00000	0.8104
* 134	Di-n-octylphthalate-d4	153	20.963	20.964	(1.000)	452253	20.0000	(M)
73	Di-n-octylphthalate	149	20.974	20.975	(1.000)	24433	1.00000	0.9780 (M)
74	Benzo(b)fluoranthene	252	21.465	21.466	(0.976)	24871	1.00000	1.136 (H)
75	Benzo(k)fluoranthene	252	21.497	21.498	(0.977)	26484	1.00000	1.122
76	Benzo(a)pyrene	252	21.914	21.920	(0.996)	22046	1.00000	1.082
* 77	Perylene-d12	264	22.000	22.001	(1.000)	316272	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	23.570	23.576	(1.071)	26373	1.00000	1.073
79	Dibenzo(a,h)anthracene	278	23.592	23.603	(1.072)	22253	1.00000	1.078
80	Benzo(g,h,i)perylene	276	24.003	24.015	(1.091)	24471	1.00000	1.069

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 0010915.d
Lab Smp Id: ABN 1
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20080915.b/SW846.m
Misc Info:

Calibration Date: 15-SEP-2008
Calibration Time: 11:35
Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134449	67224	268898	131954	-1.86
27 Naphthalene-d8	498098	249049	996196	481484	-3.34
42 Acenaphthene-d10	240116	120058	480232	241627	0.63
59 Phenanthrene-d10	337544	168772	675088	328844	-2.58
69 Chrysene-d12	261699	130850	523398	266315	1.76
134 Di-n-octylphthala	511931	255966	1023862	452253	-11.66
77 Perylene-d12	338505	169252	677010	316272	-6.57

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.17	7.67	8.67	8.17	0.00
27 Naphthalene-d8	10.23	9.73	10.73	10.23	-0.05
42 Acenaphthene-d10	13.11	12.61	13.61	13.11	0.00
59 Phenanthrene-d10	15.50	15.00	16.00	15.49	-0.04
69 Chrysene-d12	19.84	19.34	20.34	19.83	-0.03
134 Di-n-octylphthala	20.97	20.47	21.47	20.96	-0.03
77 Perylene-d12	22.00	21.50	22.50	22.00	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

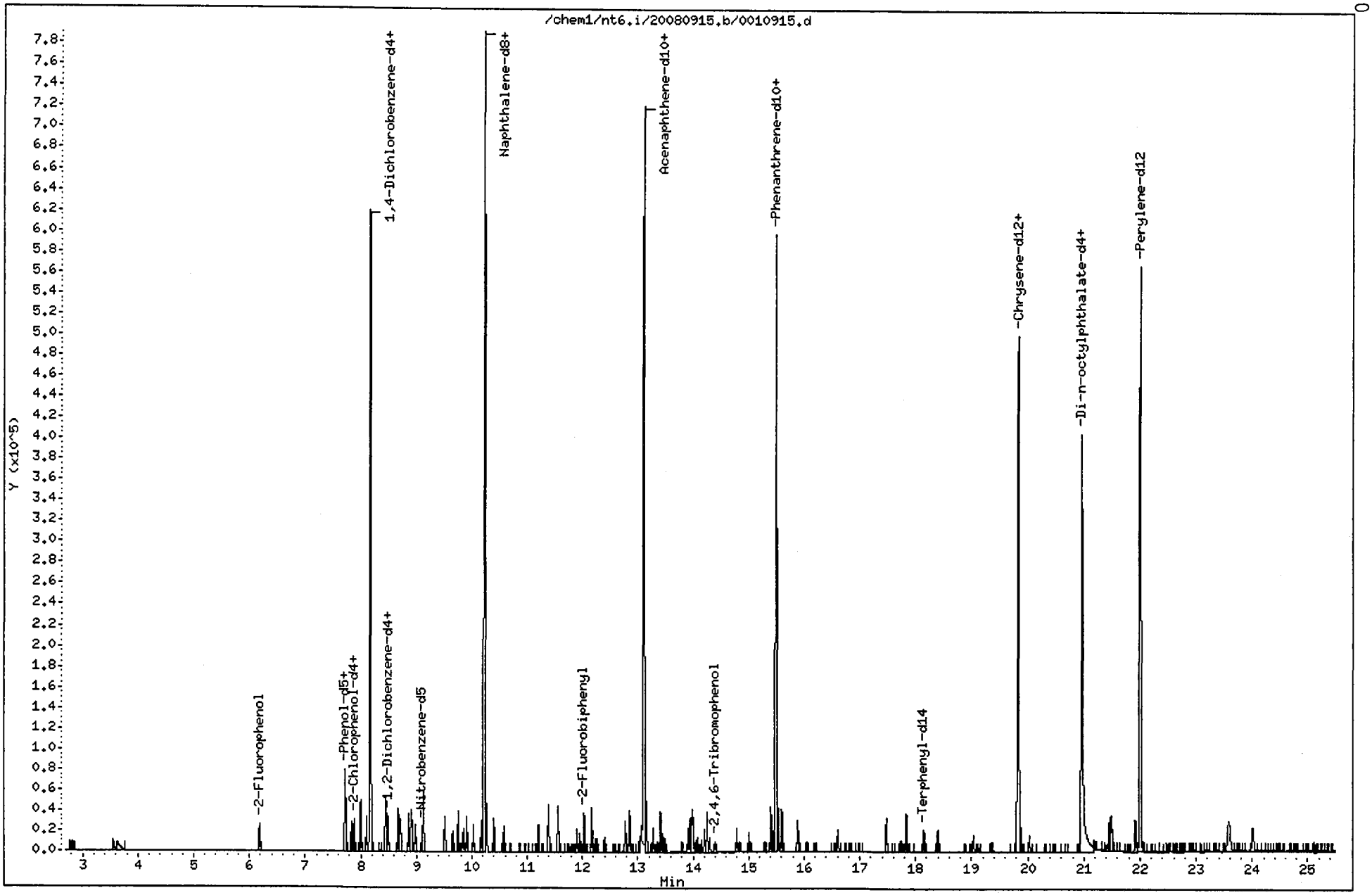
Data File: /chem1/nt6.i/20080915.b/0010915.d
Date : 15-SEP-2008 12:45
Client ID:
Sample Info: ABN 1

Instrument: nt6.i

Operator: LJR/VTS
Column diameter: 0.32

Column phase: ZB-5

0195



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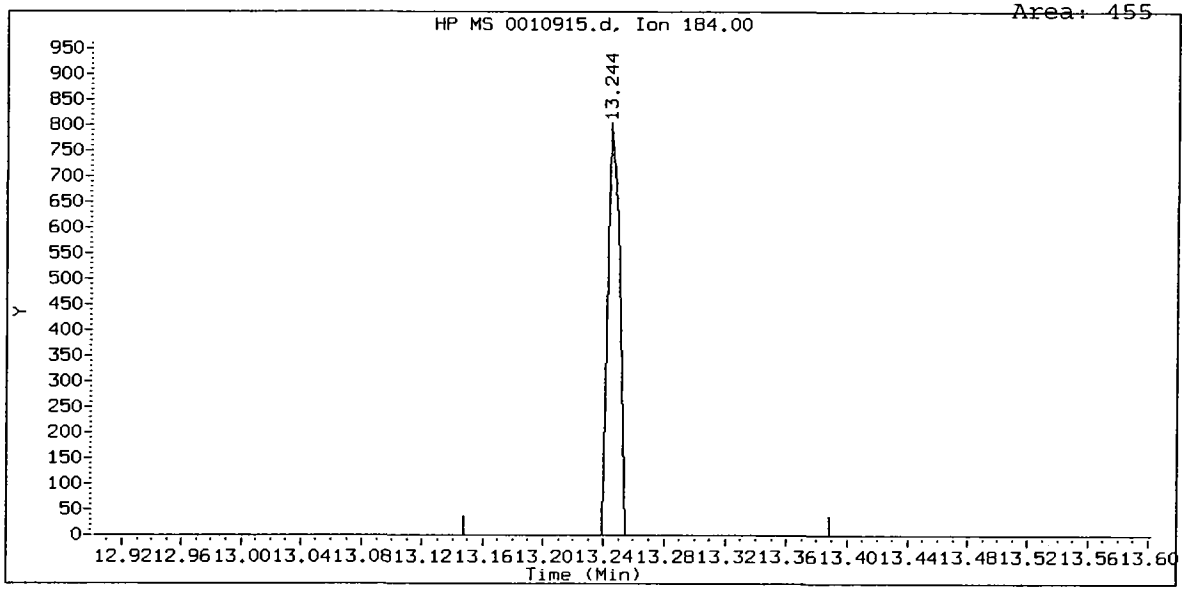
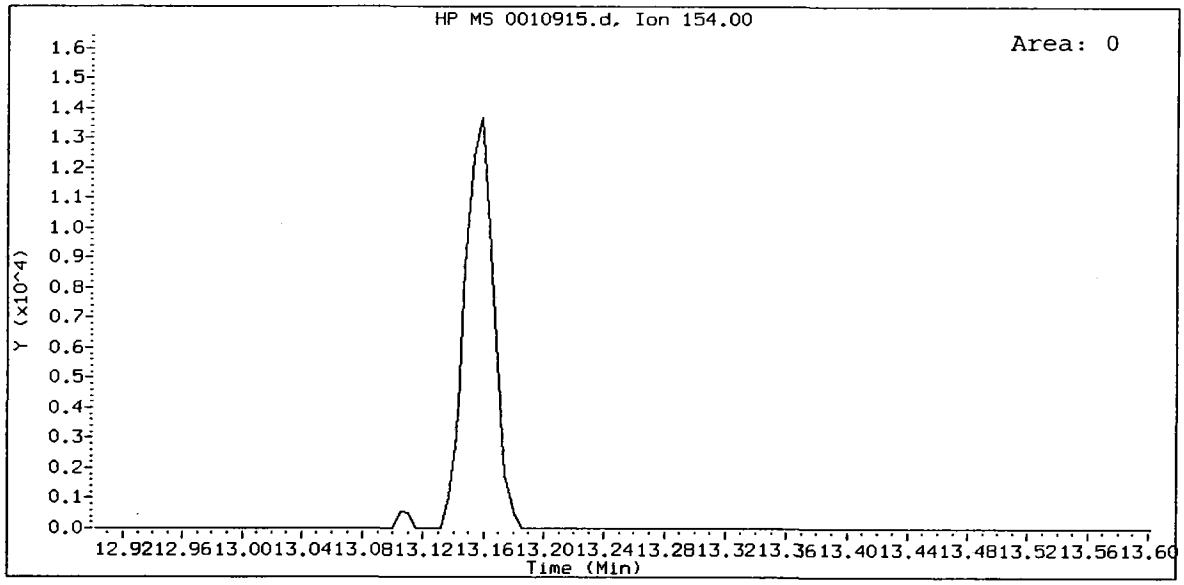
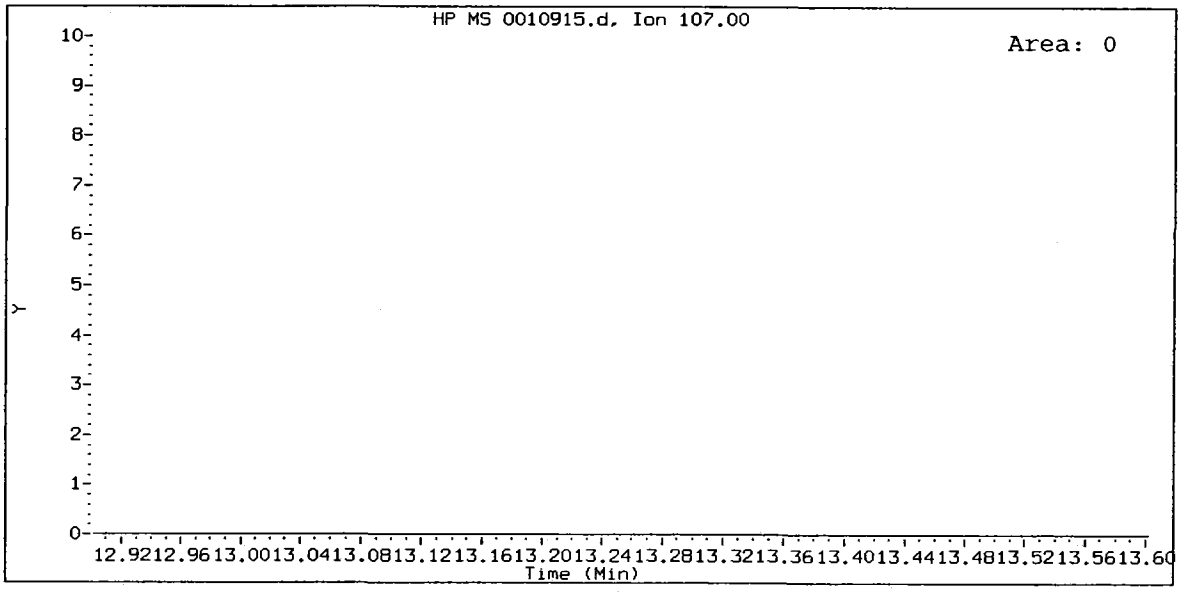
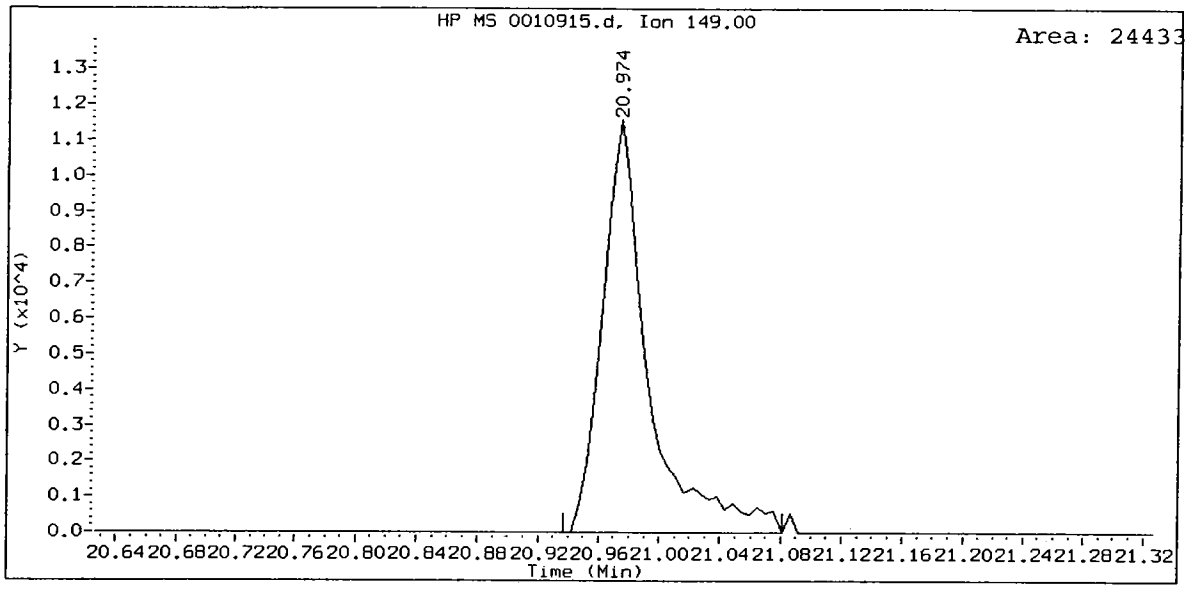
2,4-Dinitrophenol Amount: 0.20

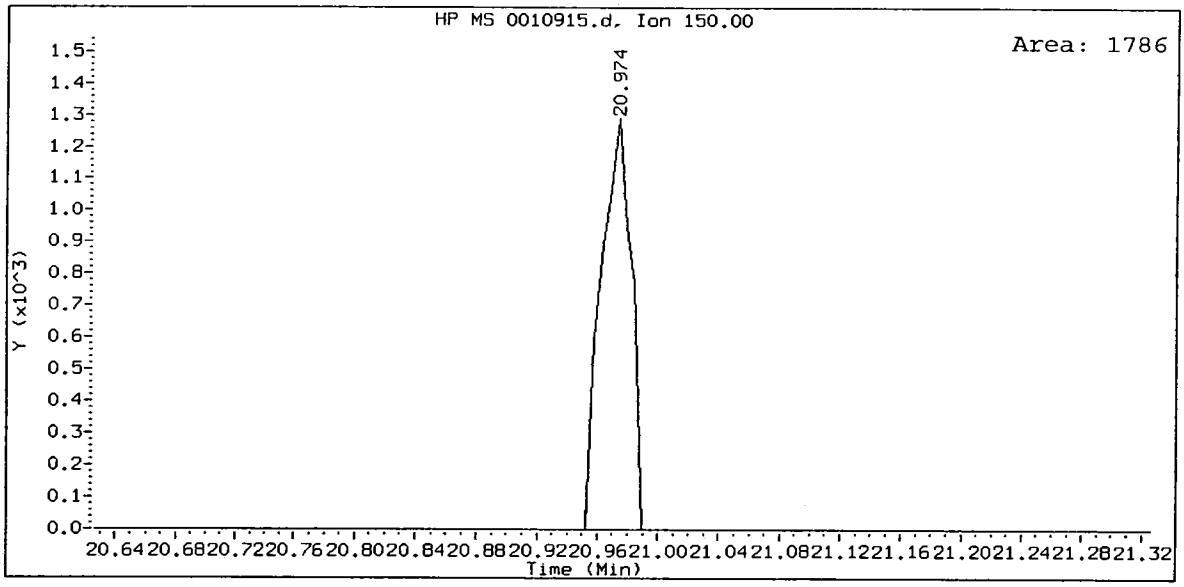


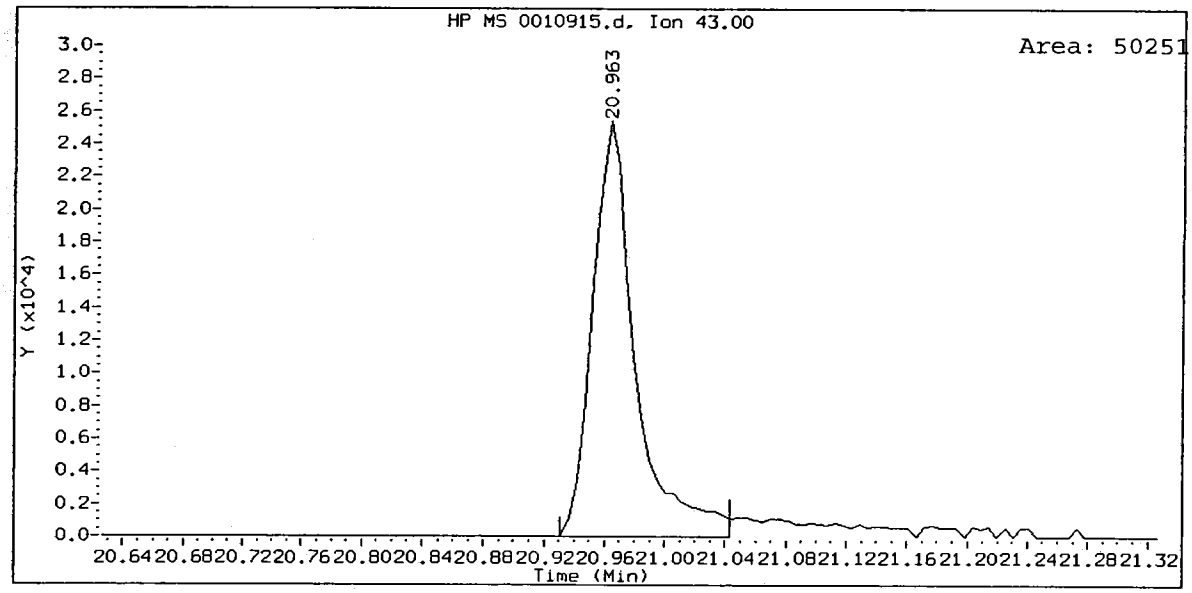




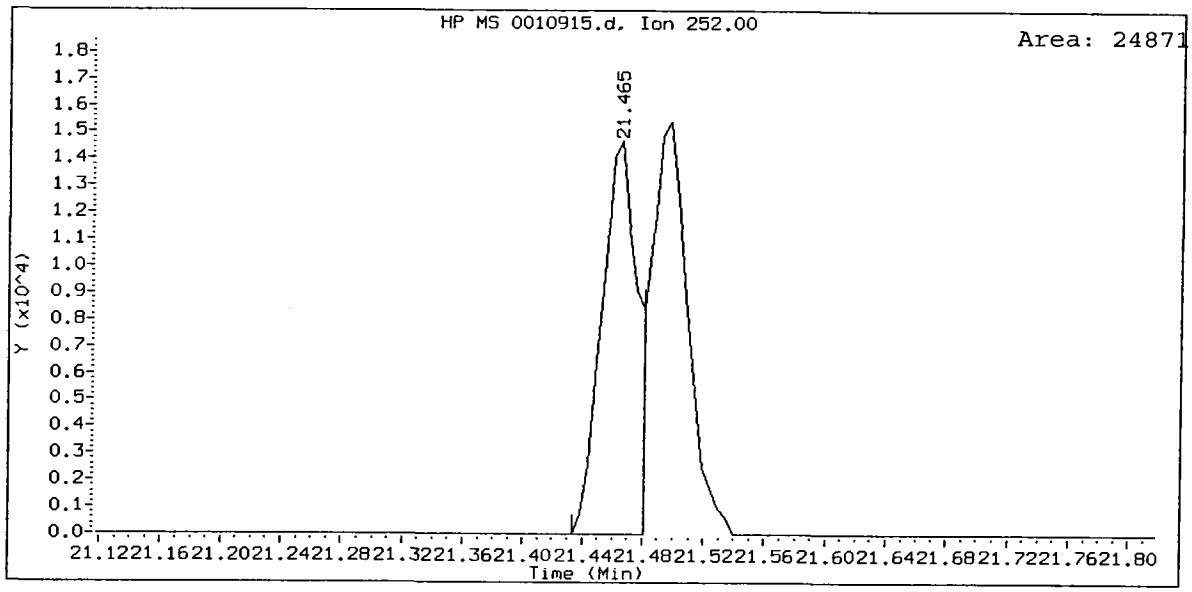
ABN 1, /chem1/nt6.i/20080915.b/0010915.d
Di-n-octylphthalate Amount: 0.98

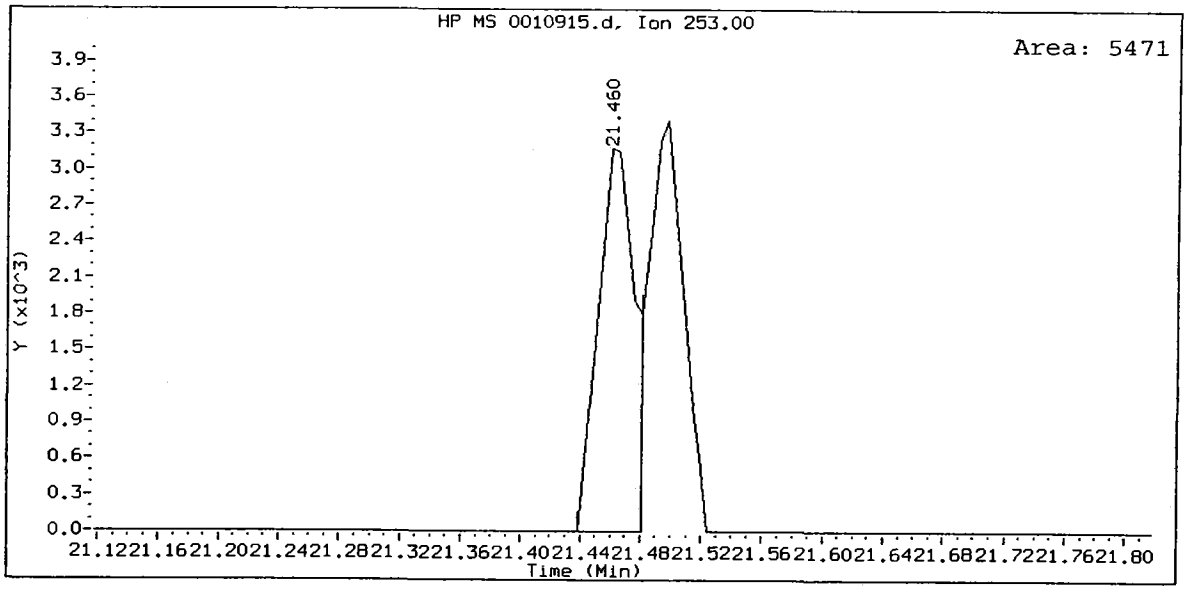


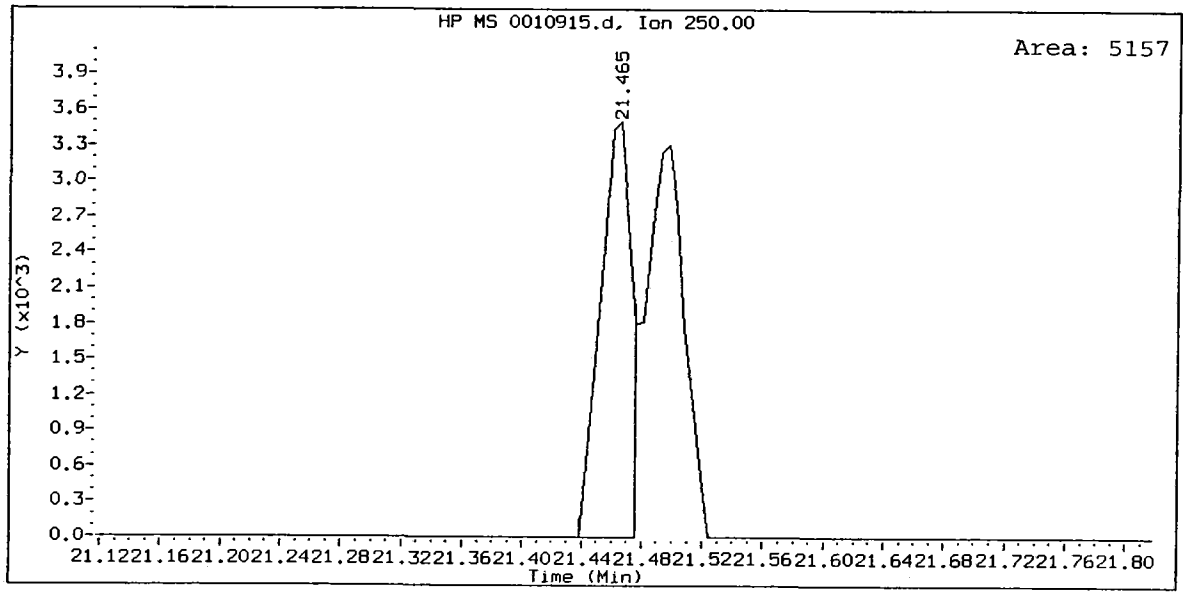




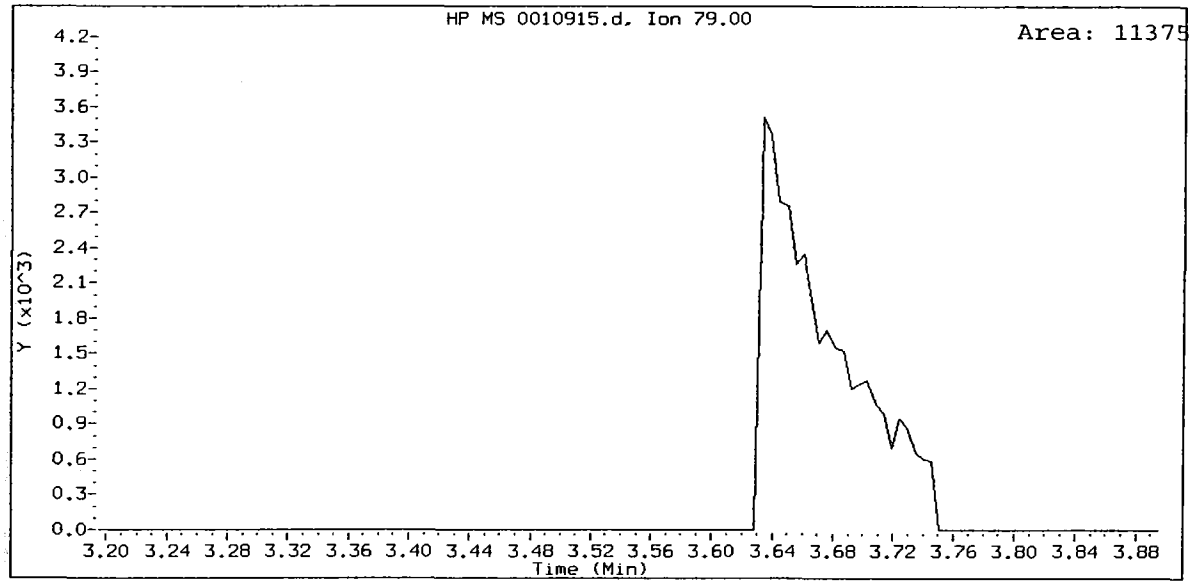
ABN 1, /chem1/nt6.i/20080915.b/0010915.d
Benzo(b)fluoranthene Amount: 1.14

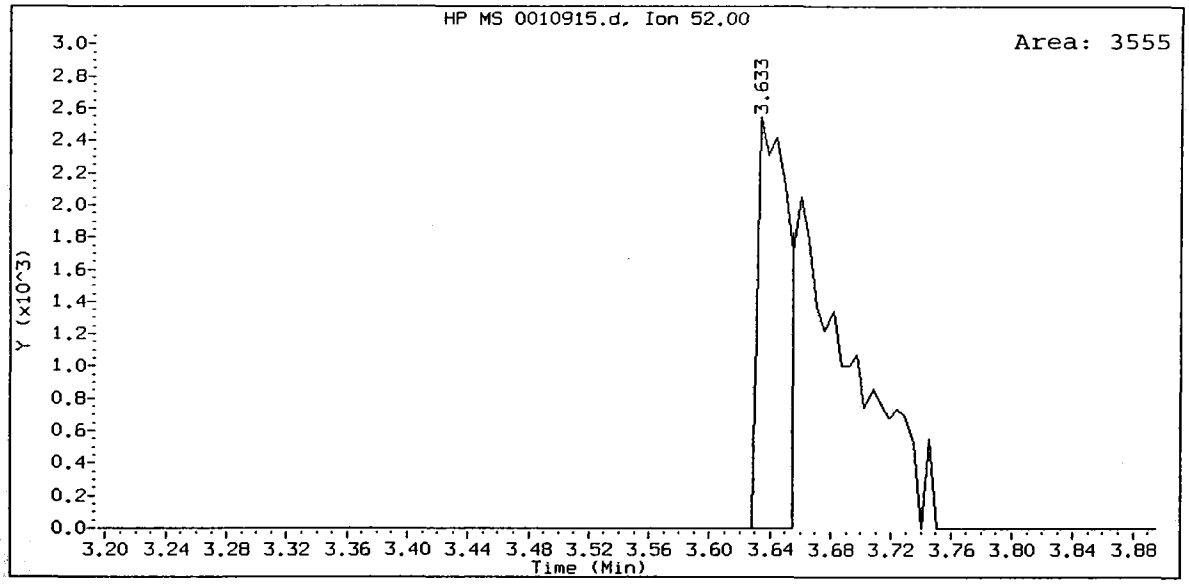






ABN 1, /chem1/nt6.i/20080915.b/0010915.d
Pyridine Amount: 0.85





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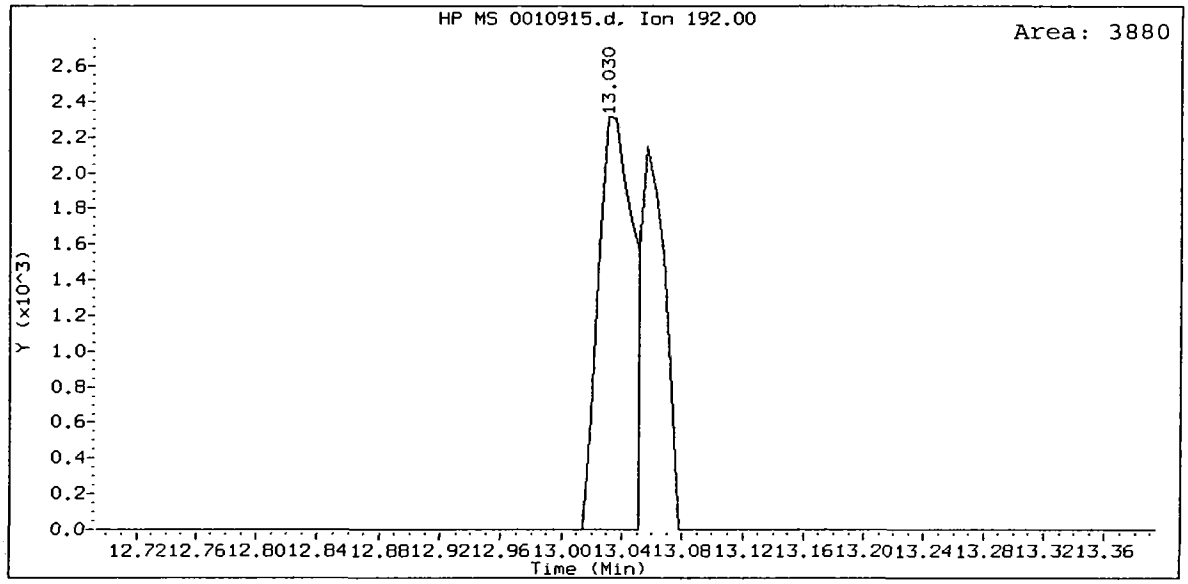
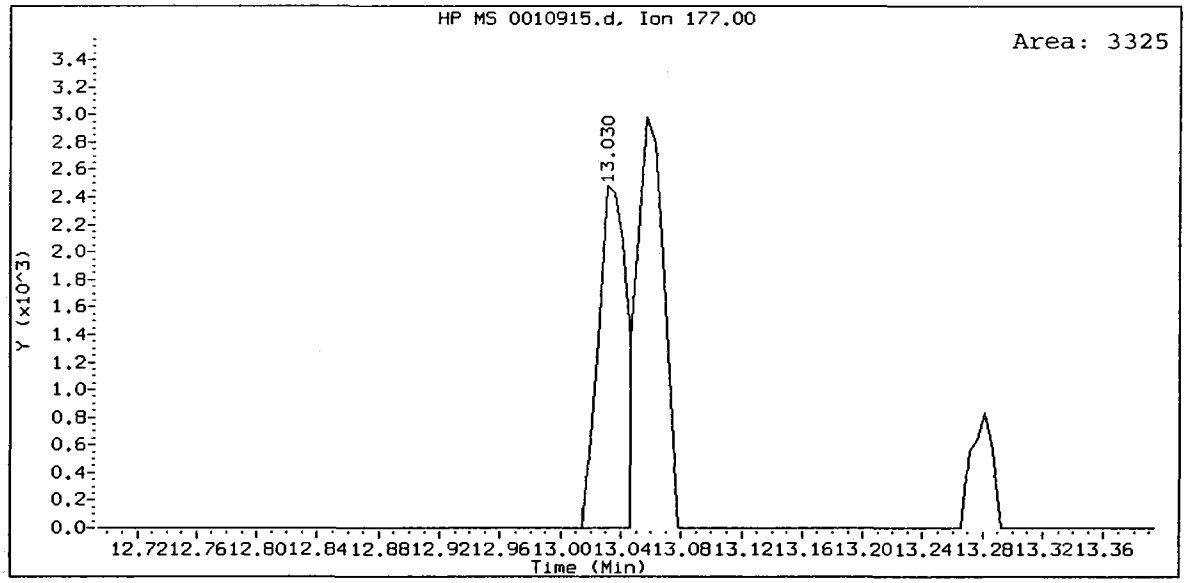
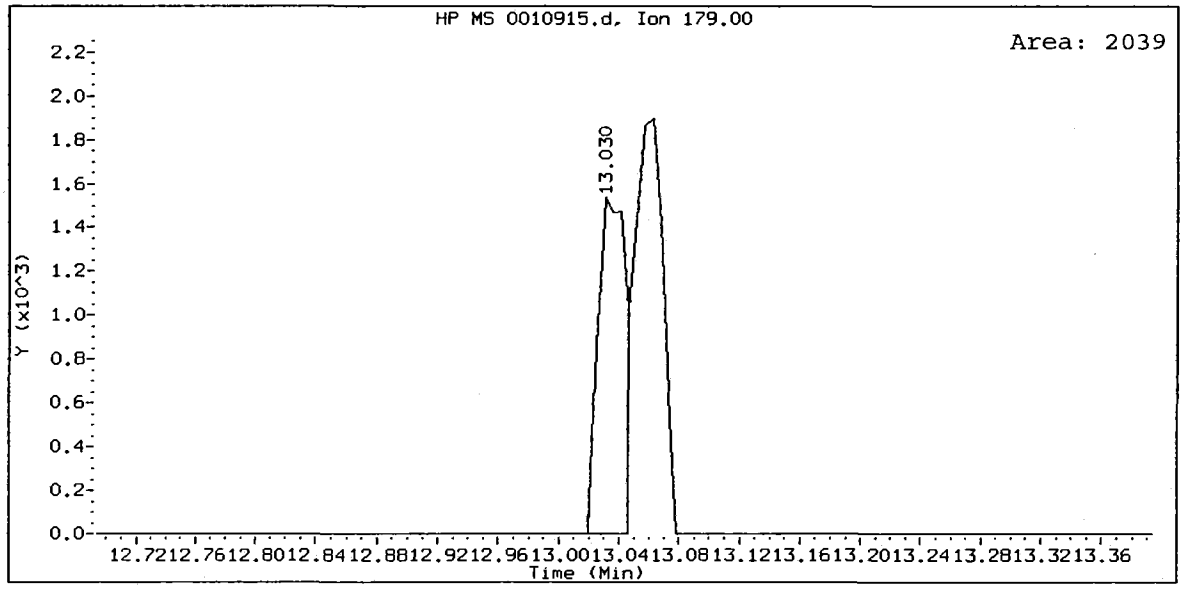
4,5-Dichloroguaiacol Amount: 0.98







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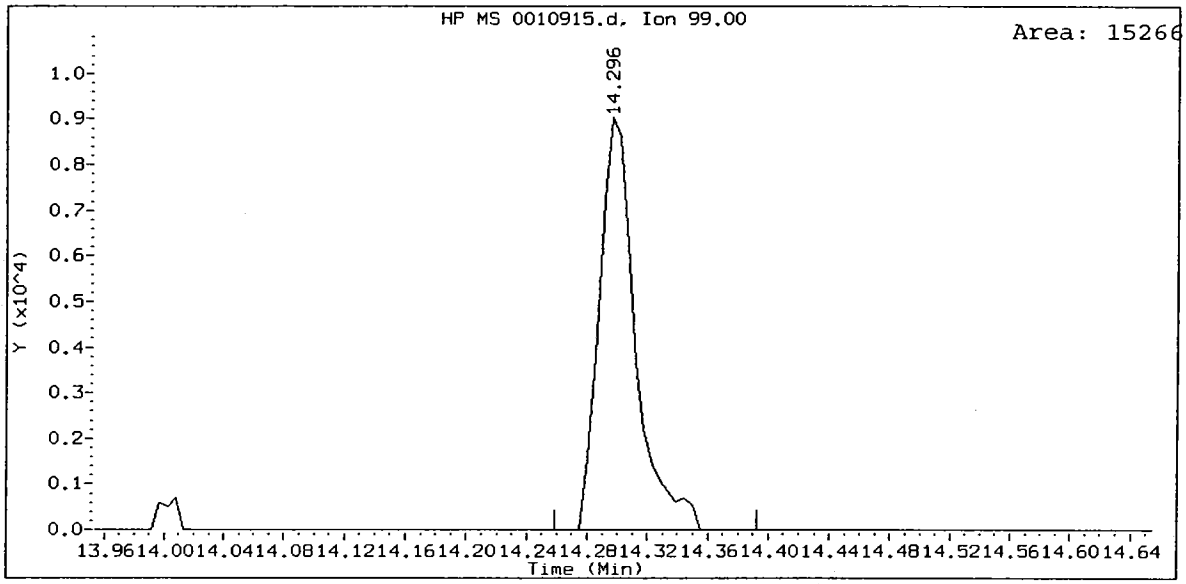
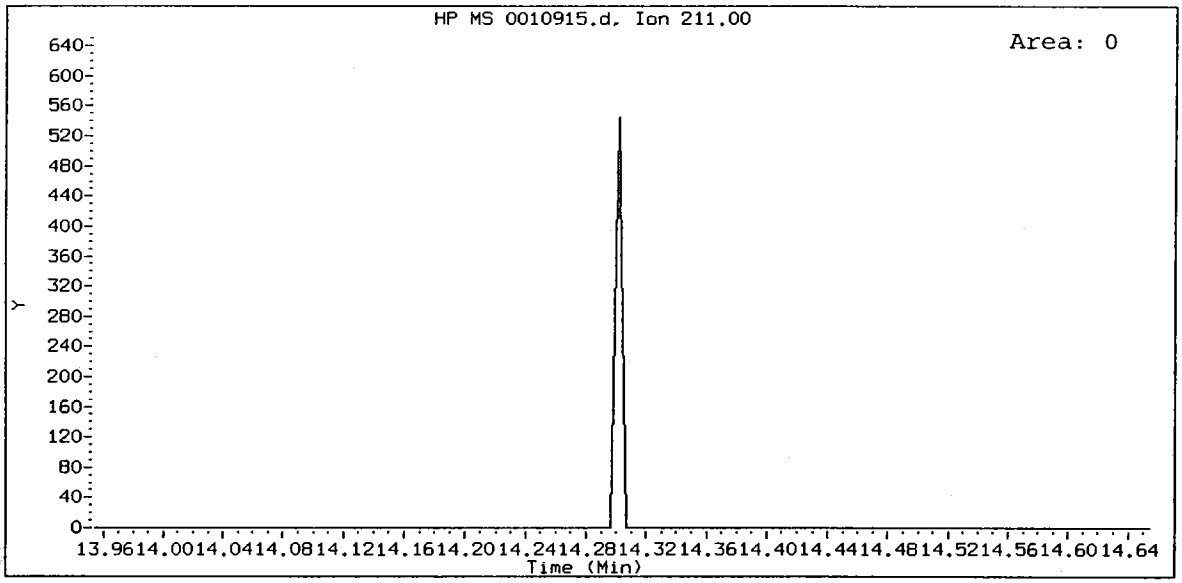
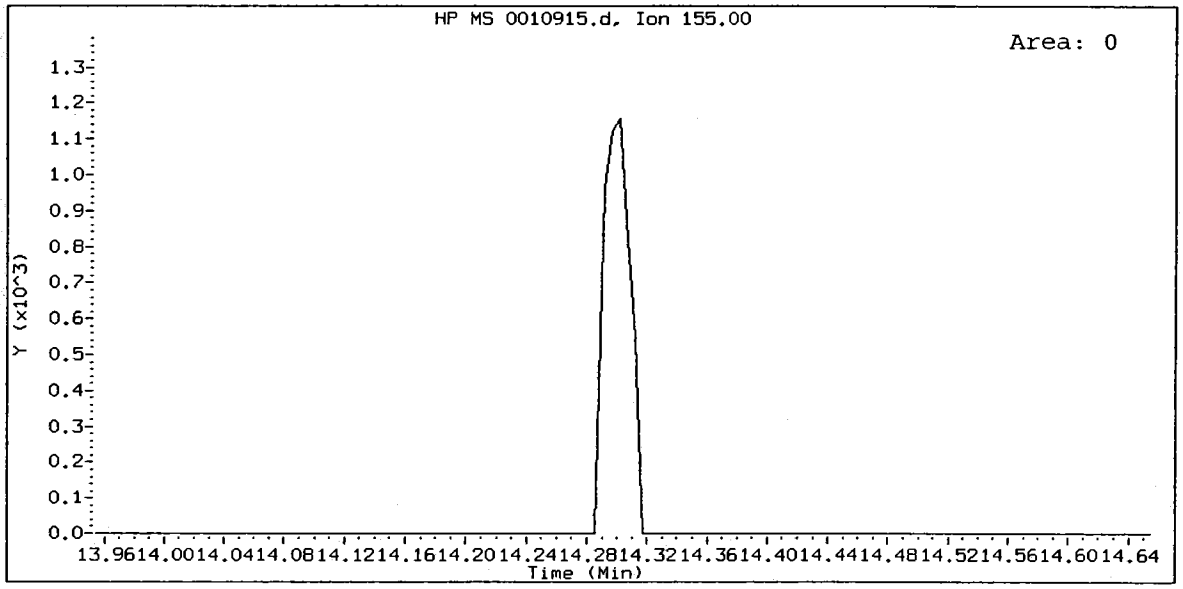
Tributyl Phosphate Amount: 0.83







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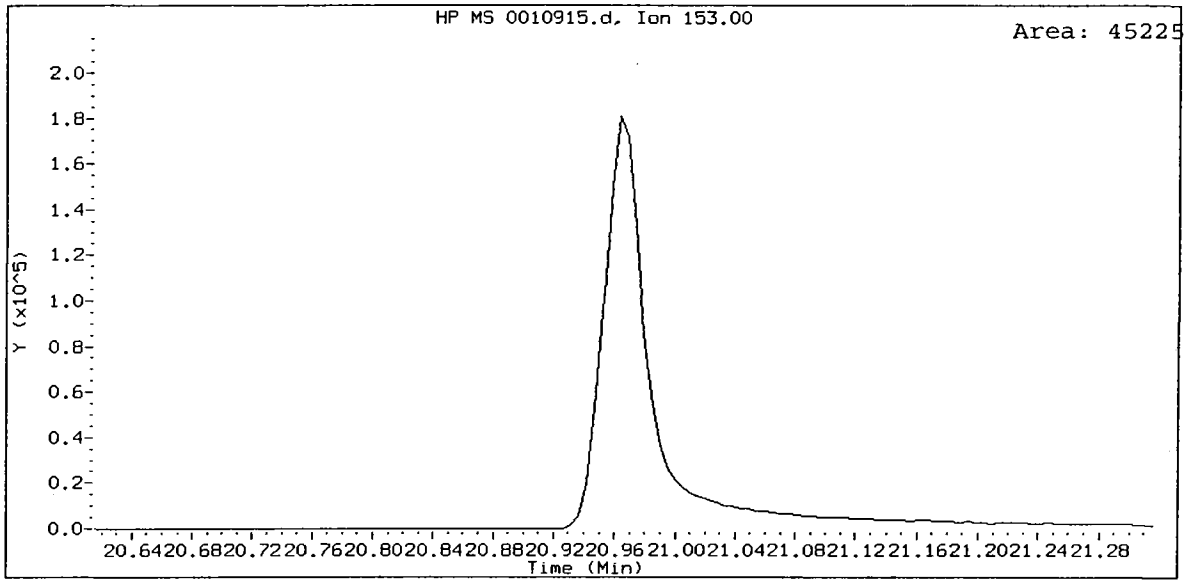
Di-n-octylphthalate-d4 Amount: 20.00



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20080915.b/0050915.d
Lab Smp Id: ABN 5
Inj Date : 15-SEP-2008 13:55
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : ABN 5
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20080915.b/SW846.m
Meth Date : 15-Sep-2008 16:18 jeff Quant Type: ISTD
Cal Date : 15-SEP-2008 13:55 Cal File: 0050915.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: GUAIACAL.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	137 d8-1,4-Dioxane	96	2.766	2.769	(0.338)	30397	5.00000	5.555
	143 1,4-Dioxane	88	2.819	2.822	(0.345)	32450	5.00000	5.609
	103 Pyridine	79	3.557	3.543	(0.435)	73647	5.00000	5.485
	90 N-Nitrosodimethylamine	74	3.541	3.538	(0.433)	47209	5.00000	5.564
$	1 2-Fluorophenol	112	6.185	6.188	(0.757)	61672	5.00000	5.836
	91 Aniline	93	7.723	7.721	(0.945)	112868	5.00000	6.404
$	2 Phenol-d5	99	7.718	7.721	(0.944)	88135	5.00000	6.261
	3 Phenol	94	7.734	7.737	(0.946)	101349	5.00000	5.967
	4 Bis(2-Chloroethyl)ether	93	7.841	7.839	(0.959)	75341	5.00000	5.935
$	5 2-Chlorophenol-d4	132	7.862	7.865	(0.962)	54012	5.00000	6.287
	6 2-Chlorophenol	128	7.884	7.887	(0.965)	63144	5.00000	5.943
	179 n-Decane	57	8.001	8.004	(0.979)	96917	5.00000	5.759
	7 1,3-Dichlorobenzene	146	8.108	8.111	(0.992)	65589	5.00000	5.881
*	8 1,4-Dichlorobenzene-d4	152	8.172	8.175	(1.000)	135668	20.0000	
	9 1,4-Dichlorobenzene	146	8.199	8.197	(1.003)	65573	5.00000	5.946
	11 Benzyl alcohol	108	8.450	8.448	(1.034)	53439	5.00000	6.119
$	10 1,2-Dichlorobenzene-d4	152	8.471	8.474	(1.037)	37120	5.00000	6.571
	12 1,2-Dichlorobenzene	146	8.493	8.496	(1.039)	61776	5.00000	5.973
	13 2-Methylphenol	108	8.674	8.677	(1.061)	65822	5.00000	5.845
	14 2,2'-oxybis(1-Chloropropane)	45	8.717	8.720	(1.067)	117392	5.00000	5.782
	123 Acetophenone	105	8.867	8.870	(1.085)	82480	5.00000	5.576
	15 4-Methylphenol	108	8.909	8.912	(1.090)	68804	5.00000	5.990
	16 N-Nitroso-di-n-propylamine	70	8.931	8.928	(1.093)	52298	5.00000	5.826
	17 Hexachloroethane	117	8.984	8.987	(1.099)	28145	5.00000	5.786
$	18 Nitrobenzene-d5	82	9.107	9.105	(0.890)	71797	5.00000	5.902
	106 Guaiacol	124	9.134	9.137	(1.118)	37920	5.00000	5.690
	19 Nitrobenzene	77	9.134	9.137	(0.893)	77235	5.00000	6.057

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	20 Isophorone	82	9.513	9.516	(0.930)	127576	5.00000	5.872
	21 2-Nitrophenol	139	9.652	9.655	(0.944)	30317	5.00000	5.635
	22 2,4-Dimethylphenol	107	9.753	9.756	(0.954)	65028	5.00000	5.990
	23 Bis(2-Chloroethoxy)methane	93	9.914	9.911	(0.969)	85449	5.00000	5.897
	25 2,4-Dichlorophenol	162	10.031	10.034	(0.981)	44666	5.00000	6.227
	24 Benzoic acid	105	9.908	9.943	(0.969)	92458	10.0000	10.06 (M)
	26 1,2,4-Trichlorobenzene	180	10.170	10.173	(0.994)	46927	5.00000	5.987
*	27 Naphthalene-d8	136	10.229	10.227	(1.000)	494925	20.0000	
	28 Naphthalene	128	10.261	10.259	(1.003)	170681	5.00000	6.095
	29 4-Chloroaniline	127	10.400	10.403	(1.017)	73307	5.00000	6.388
	30 Hexachlorobutadiene	225	10.581	10.584	(1.034)	25311	5.00000	6.105
	185 4-Chloroguaiacol	115	11.158	11.156	(1.365)	10792	2.50000	2.694
	31 4-Chloro-3-methylphenol	107	11.207	11.204	(1.096)	54021	5.00000	6.082
	32 2-Methylnaphthalene	141	11.388	11.386	(1.113)	86785	5.00000	6.165
	105 1-methylnaphthalene	141	11.559	11.562	(1.130)	87127	5.00000	6.091
	33 Hexachlorocyclopentadiene	237	11.773	11.770	(0.898)	18857	5.00000	4.808
	34 2,4,6-Trichlorophenol	196	11.901	11.899	(0.908)	28641	5.00000	5.750
	35 2,4,5-Trichlorophenol	196	11.949	11.952	(0.912)	30817	5.00000	5.865
$	36 2-Fluorobiphenyl	172	12.035	12.032	(0.918)	105840	5.00000	6.231
	37 2-Chloronaphthalene	162	12.168	12.171	(0.928)	97385	5.00000	5.940
	184 3,4-Dichloroguaiacol	192	12.248	12.251	(1.499)	14069	5.00000	5.561
	38 2-Nitroaniline	65	12.398	12.401	(0.946)	35456	5.00000	5.243
	39 Dimethylphthalate	163	12.777	12.780	(0.975)	98944	5.00000	5.771
	40 Acenaphthylene	152	12.852	12.855	(0.980)	147272	5.00000	5.965
	41 2,6-Dinitrotoluene	165	12.873	12.876	(0.982)	19903	5.00000	5.348
	107 4,5-Dichloroguaiacol	192	13.034	13.042	(0.994)	21238	5.00000	5.131
	182 4,6-Dichloroguaiacol	192	13.060	13.063	(1.598)	17906	5.00000	6.270
	43 3-Nitroaniline	138	13.082	13.085	(0.998)	27051	5.00000	6.387
*	42 Acenaphthene-d10	164	13.108	13.111	(1.000)	245421	20.0000	
	44 Acenaphthene	153	13.156	13.159	(1.004)	95234	5.00000	5.919
	45 2,4-Dinitrophenol	184	13.247	13.250	(1.011)	18210	10.0000	8.429
	133 Butylatedhydroxytoluene	205	13.279	13.282	(1.013)	60554	5.00000	5.874
	47 4-Nitrophenol	109	13.365	13.368	(1.020)	14152	5.00000	5.192
	46 Dibenzofuran	168	13.418	13.421	(1.024)	126056	5.00000	5.954
	168 Pentachlorobenzene	250	13.461	13.464	(1.027)	33758	5.00000	5.962
	48 2,4-Dinitrotoluene	165	13.498	13.501	(1.030)	26271	5.00000	5.257
	181 3,4,6-Trichloroguaiacol	211	13.797	13.800	(1.688)	12771	5.00000	5.731
	109 3,4,5-Trichloroguaiacol	213	13.915	13.918	(0.898)	13959	5.00000	5.718
	50 Diethylphthalate	149	13.936	13.939	(1.063)	103918	5.00000	5.882
	49 Fluorene	166	13.979	13.982	(1.066)	106402	5.00000	6.147
	51 4-Chlorophenyl-phenylether	204	14.006	14.003	(1.068)	44051	5.00000	5.965
	52 4-Nitroaniline	138	14.075	14.078	(1.074)	25162	5.00000	5.244
	53 4,6-Dinitro-2-methylphenol	198	14.155	14.158	(0.913)	27740	10.0000	10.29
	54 N-Nitrosodiphenylamine	169	14.209	14.206	(0.917)	51144	5.00000	5.939
	111 Azobenzene (1,2-DP-Hydrazine)	77	14.257	14.254	(1.088)	138944	5.00000	5.811
	115 Tributyl Phosphate	99	14.300	14.303	(0.923)	109134	5.00000	5.476
$	55 2,4,6-Tribromophenol	330	14.406	14.404	(1.099)	12321	5.00000	5.795

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
56	4-Bromophenyl-phenylether	248	14.791	14.794	(0.954)	24776	5.00000	5.991
108	4,5,6-Trichloroguaiacol	213	14.839	14.837	(1.132)	12261	5.00000	5.440
57	Hexachlorobenzene	284	15.015	15.013	(0.969)	25538	5.00000	5.939
58	Pentachlorophenol	266	15.304	15.307	(0.988)	17140	5.00000	5.887
180	n-Octadecane	57	15.405	15.408	(0.994)	99259	5.00000	6.058
110	Tetrachloroguaiacol	247	15.437	15.435	(0.996)	24127	10.0000	11.82
* 59	Phenanthrene-d10	188	15.496	15.499	(1.000)	333797	20.0000	
60	Phenanthrene	178	15.534	15.537	(1.002)	136482	5.00000	6.071
61	Anthracene	178	15.603	15.606	(1.007)	139048	5.00000	6.191
62	Carbazole	167	15.886	15.889	(1.025)	124504	5.00000	6.119
116	Dibutyl Phenyl Phosphate	175	16.046	16.044	(1.036)	54134	5.00000	5.674
63	Di-n-butylphthalate	149	16.607	16.605	(1.072)	155429	5.00000	6.121
64	Fluoranthene	202	17.478	17.481	(1.128)	130374	5.00000	6.152
93	Benzidine	184	17.729	17.727	(0.894)	56201	5.00000	6.880
117	Butyl Diphenyl Phosphate	94	17.740	17.743	(0.894)	25176	5.00000	5.329
65	Pyrene	202	17.836	17.839	(0.899)	137815	5.00000	5.924
$ 66	Terphenyl-d14	244	18.151	18.149	(0.915)	81583	5.00000	6.109
98	Retene	219	18.397	18.400	(0.928)	49649	5.00000	5.691
67	Butylbenzylphthalate	149	19.033	19.036	(0.960)	58713	5.00000	5.513
118	Triphenyl Phosphate	326	19.353	19.356	(0.976)	17146	5.00000	5.543
68	Benzo(a)anthracene	228	19.802	19.805	(0.998)	124120	5.00000	6.052
70	3,3'-Dichlorobenzidine	252	19.813	19.810	(0.999)	41608	5.00000	6.544
* 69	Chrysene-d12	240	19.834	19.832	(1.000)	291277	20.0000	
71	Chrysene	228	19.871	19.874	(1.002)	126970	5.00000	6.009
72	bis(2-Ethylhexyl)phthalate	149	20.032	20.029	(0.955)	78027	5.00000	5.251(M)
* 134	Di-n-octylphthalate-d4	153	20.967	20.964	(1.000)	549720	20.0000	(M)
73	Di-n-octylphthalate	149	20.977	20.975	(1.000)	170758	5.00000	5.512(M)
74	Benzo(b)fluoranthene	252	21.463	21.466	(0.975)	154872	5.00000	6.448(H)
75	Benzo(k)fluoranthene	252	21.495	21.498	(0.977)	147698	5.00000	6.112
76	Benzo(a)pyrene	252	21.917	21.920	(0.996)	136002	5.00000	6.192
* 77	Perylene-d12	264	22.003	22.001	(1.000)	355280	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	23.574	23.576	(1.071)	159105	5.00000	6.095
79	Dibenzo(a,h)anthracene	278	23.600	23.603	(1.073)	134371	5.00000	6.224
80	Benzo(g,h,i)perylene	276	24.012	24.015	(1.091)	140643	5.00000	5.842

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 0050915.d
Lab Smp Id: ABN 5
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20080915.b/SW846.m
Misc Info:

Calibration Date: 15-SEP-2008
Calibration Time: 11:35

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134449	67224	268898	135668	0.91
27 Naphthalene-d8	498098	249049	996196	494925	-0.64
42 Acenaphthene-d10	240116	120058	480232	245421	2.21
59 Phenanthrene-d10	337544	168772	675088	333797	-1.11
69 Chrysene-d12	261699	130850	523398	291277	11.30
134 Di-n-octylphthala	511931	255966	1023862	549720	7.38
77 Perylene-d12	338505	169252	677010	355280	4.96

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.17	7.67	8.67	8.17	-0.03
27 Naphthalene-d8	10.23	9.73	10.73	10.23	-0.02
42 Acenaphthene-d10	13.11	12.61	13.61	13.11	-0.02
59 Phenanthrene-d10	15.50	15.00	16.00	15.50	-0.01
69 Chrysene-d12	19.84	19.34	20.34	19.83	-0.01
134 Di-n-octylphthala	20.97	20.47	21.47	20.97	-0.01
77 Perylene-d12	22.00	21.50	22.50	22.00	0.01

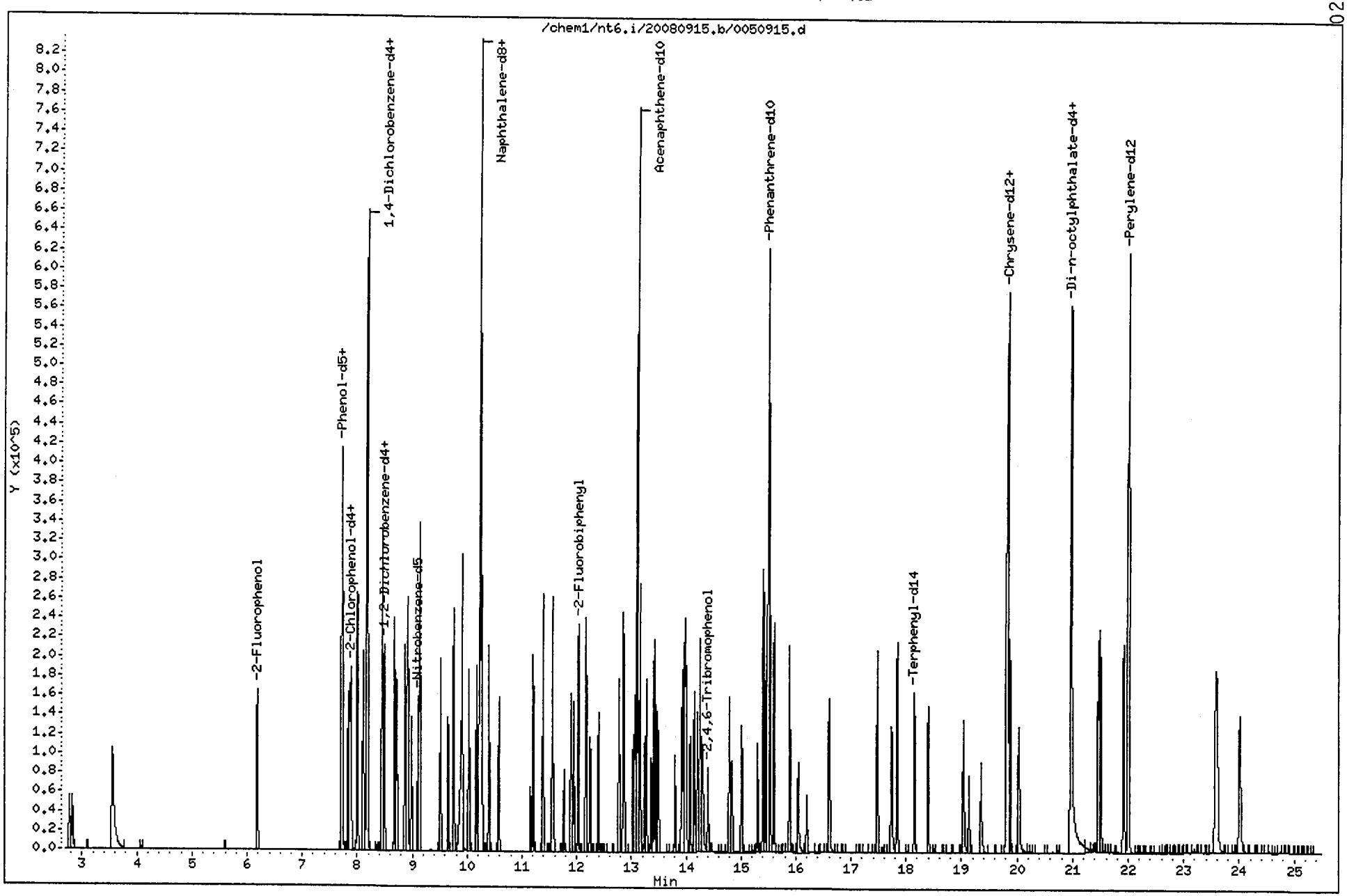
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt6.i/20080915.b/0050915.d
Date : 15-SEP-2008 13:55
Client ID:
Sample Info: ABN 5

Instrument: nt6.i

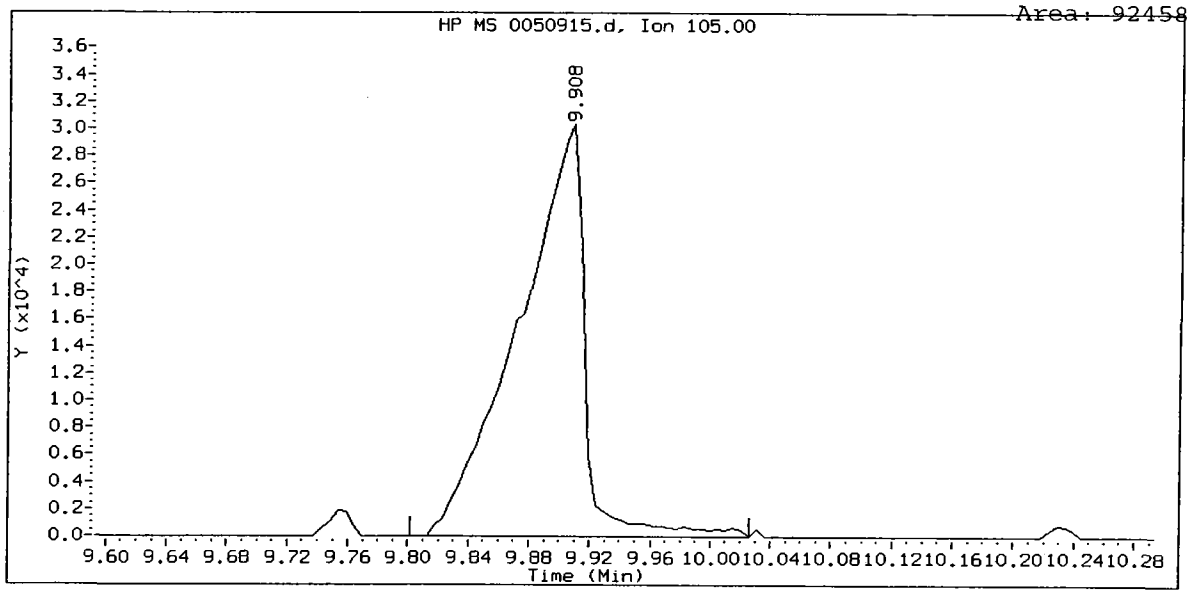
Operator: LJR/VTS
Column diameter: 0.32

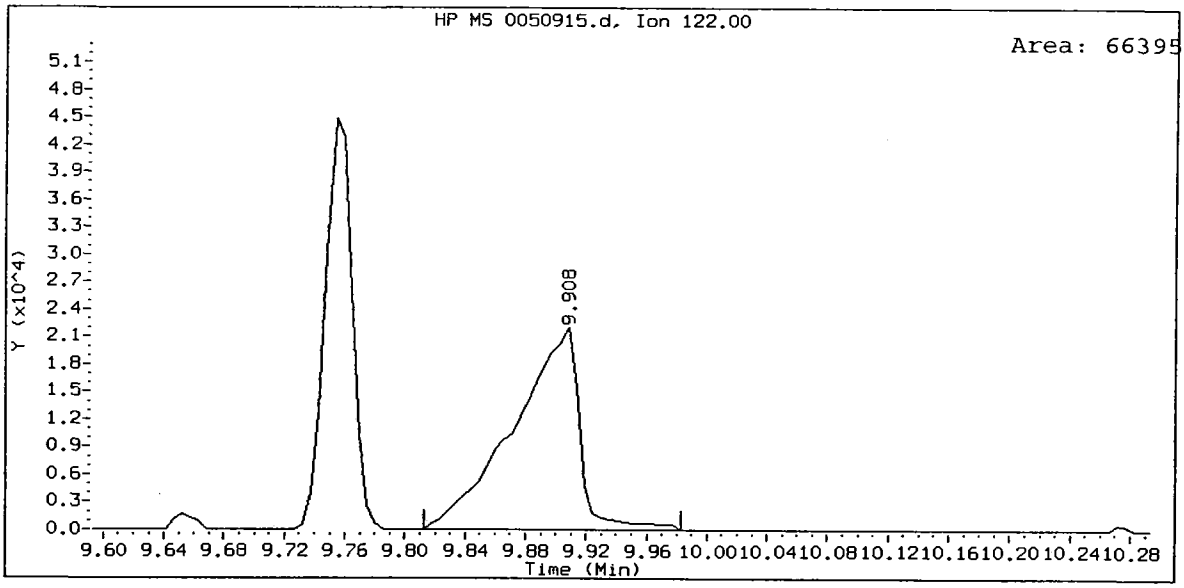
Column phase: ZB-5

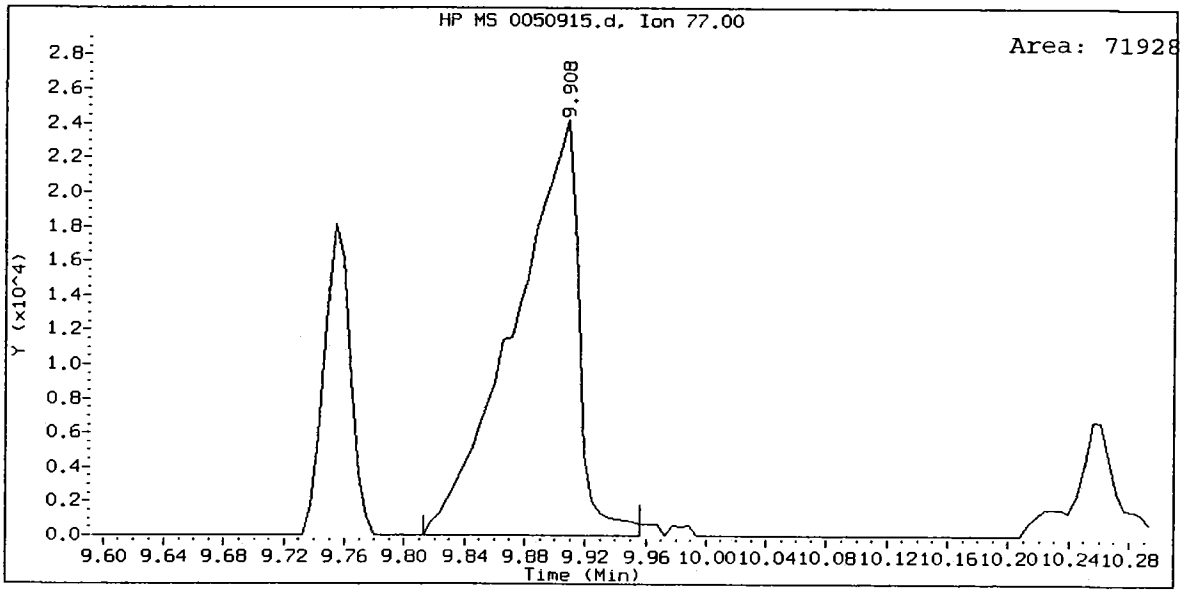


0207

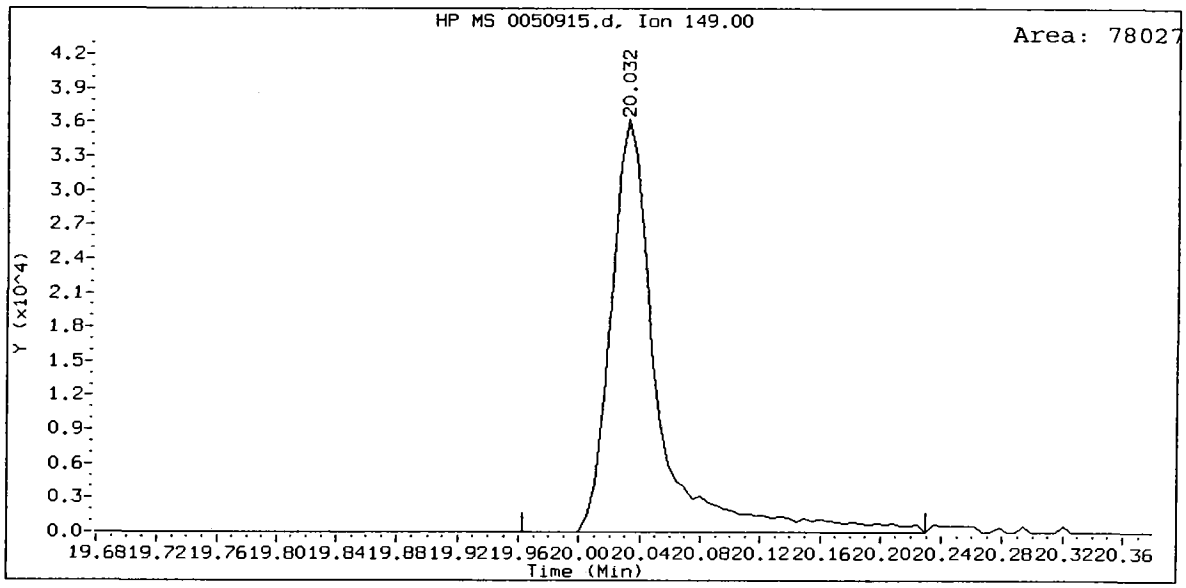
ABN 5, /chem1/nt6.i/20080915.b/0050915.d
Benzoic acid Amount: 10.06

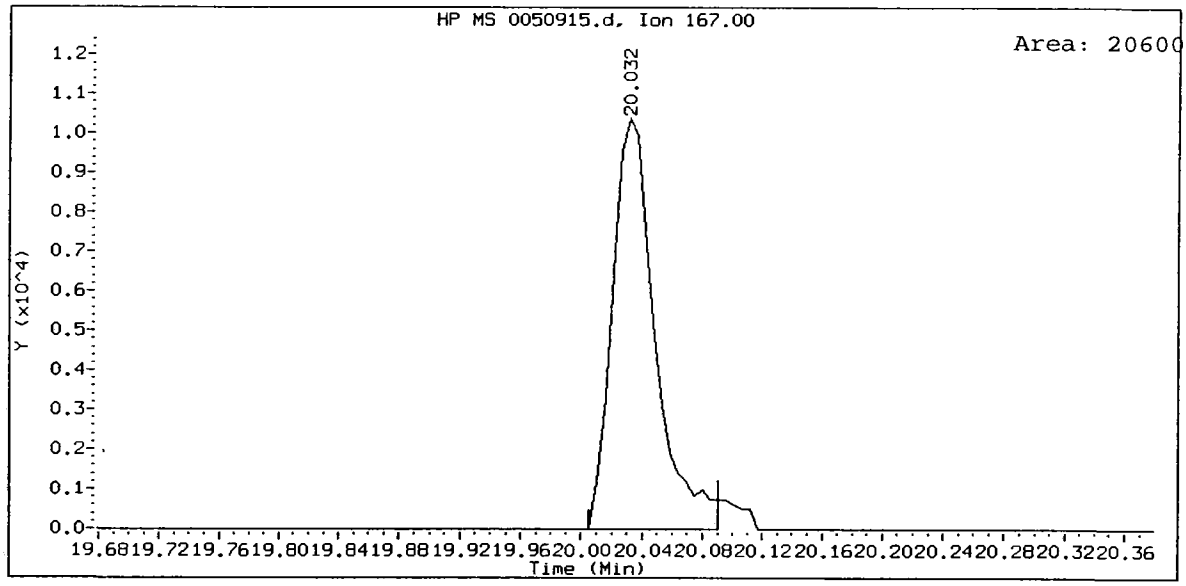


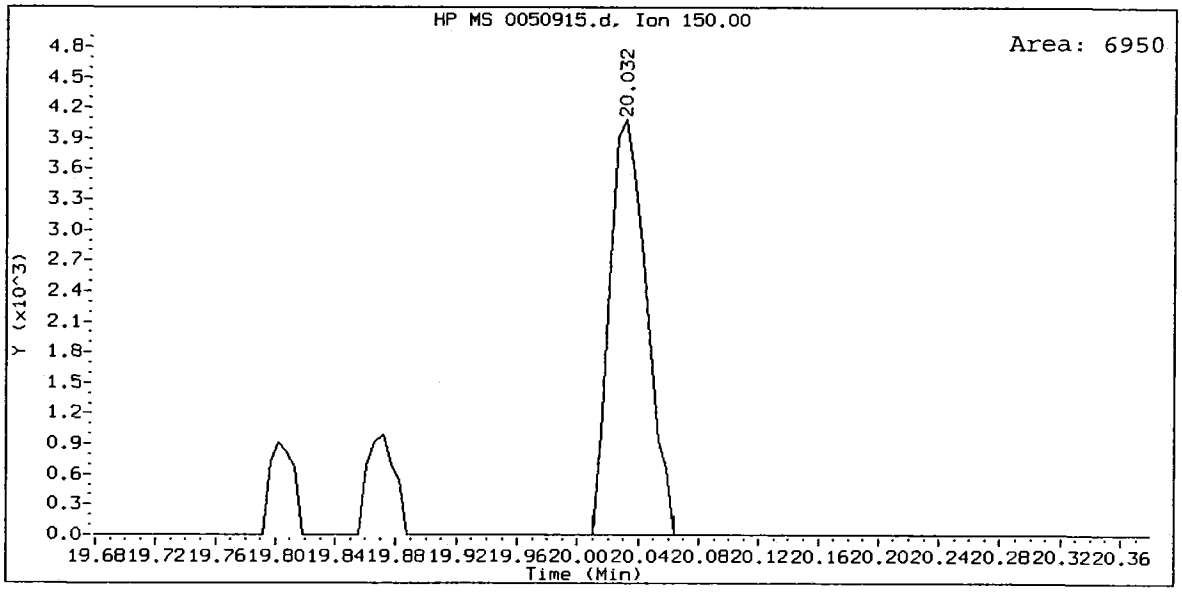




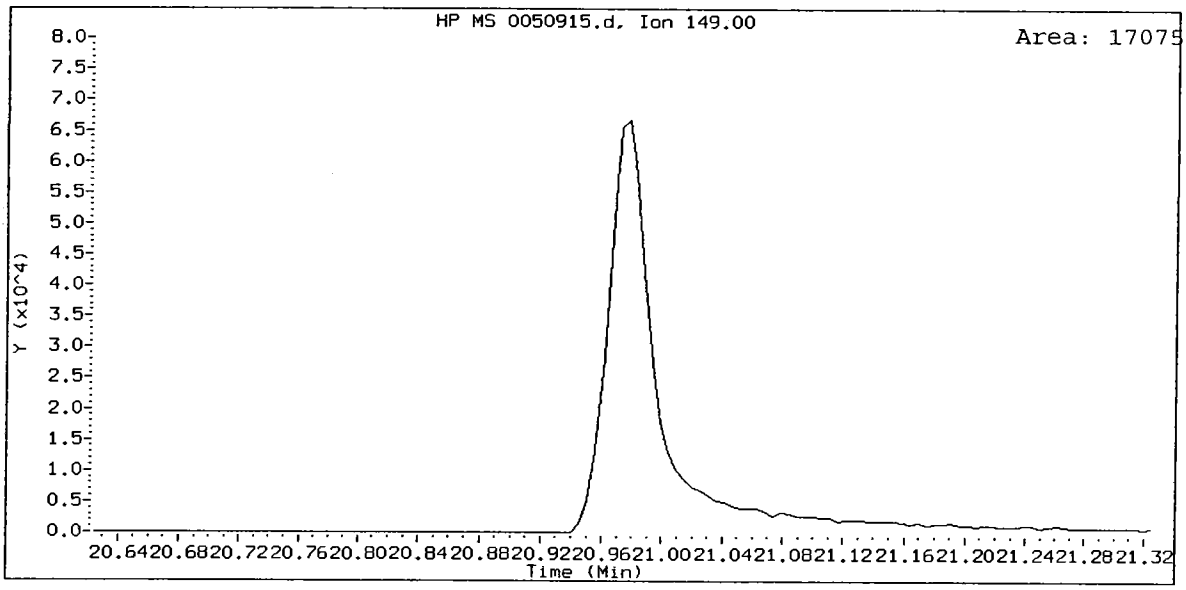
ABN 5, /chem1/nt6.i/20080915.b/0050915.d
bis(2-Ethylhexyl)phthalate Amount: 5.25

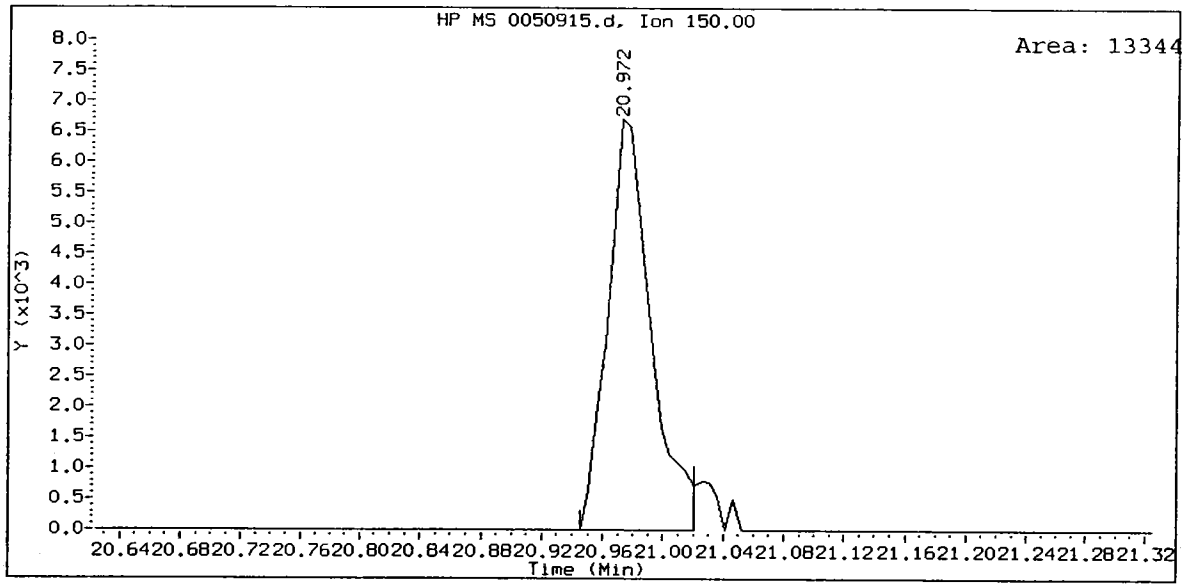


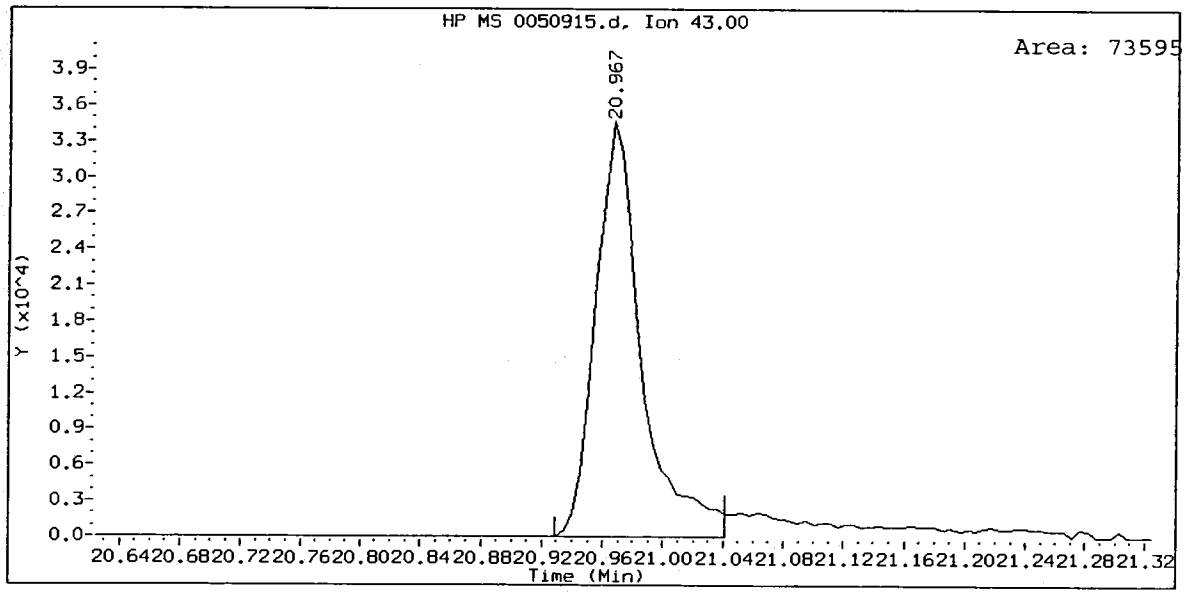




ABN 5, /chem1/nt6.i/20080915.b/0050915.d
Di-n-octylphthalate Amount: 5.51







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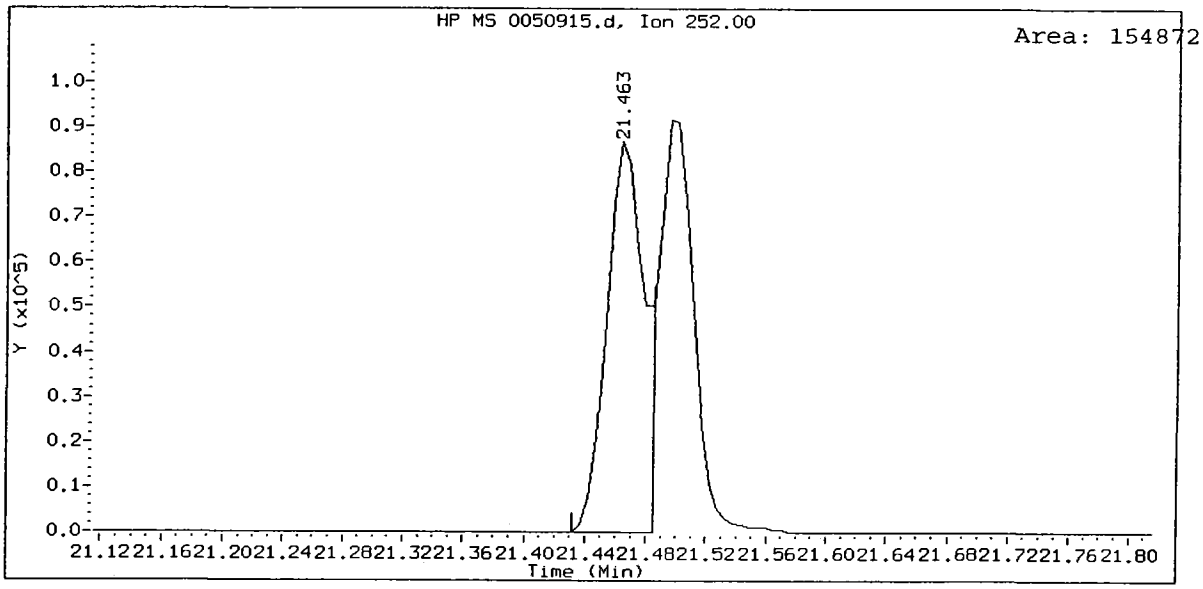
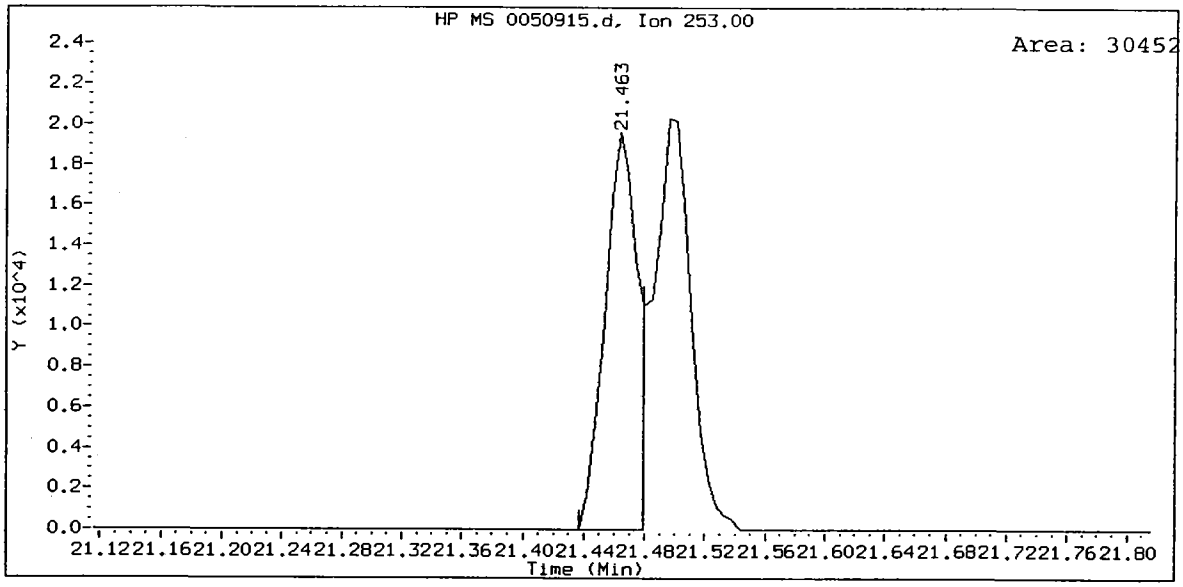
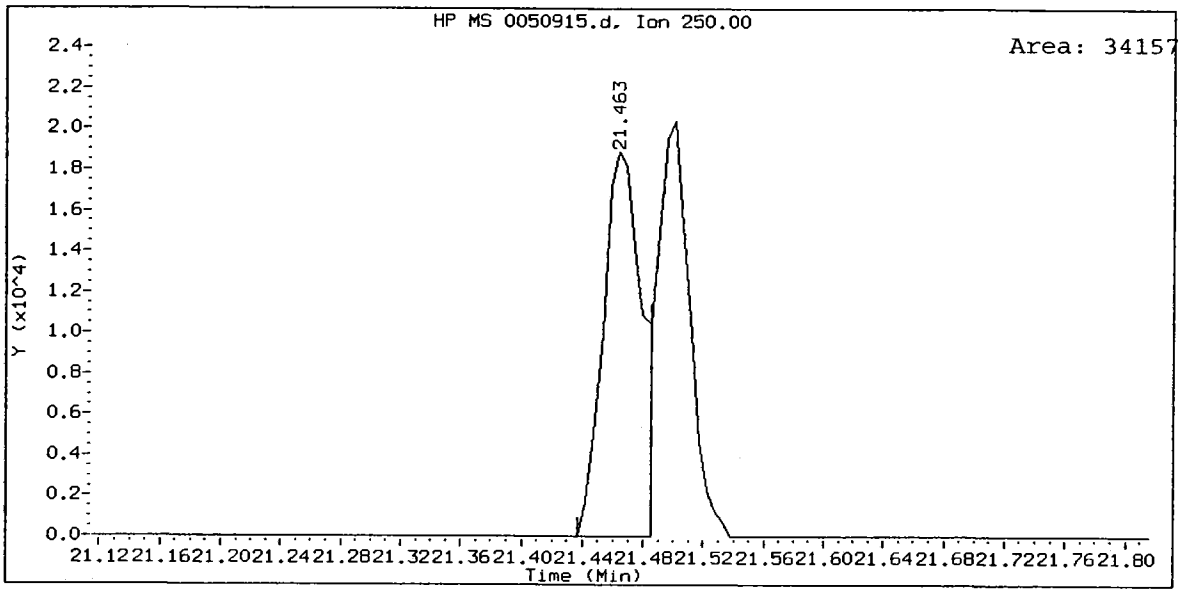
Benzo(b)fluoranthene Amount: 6.45







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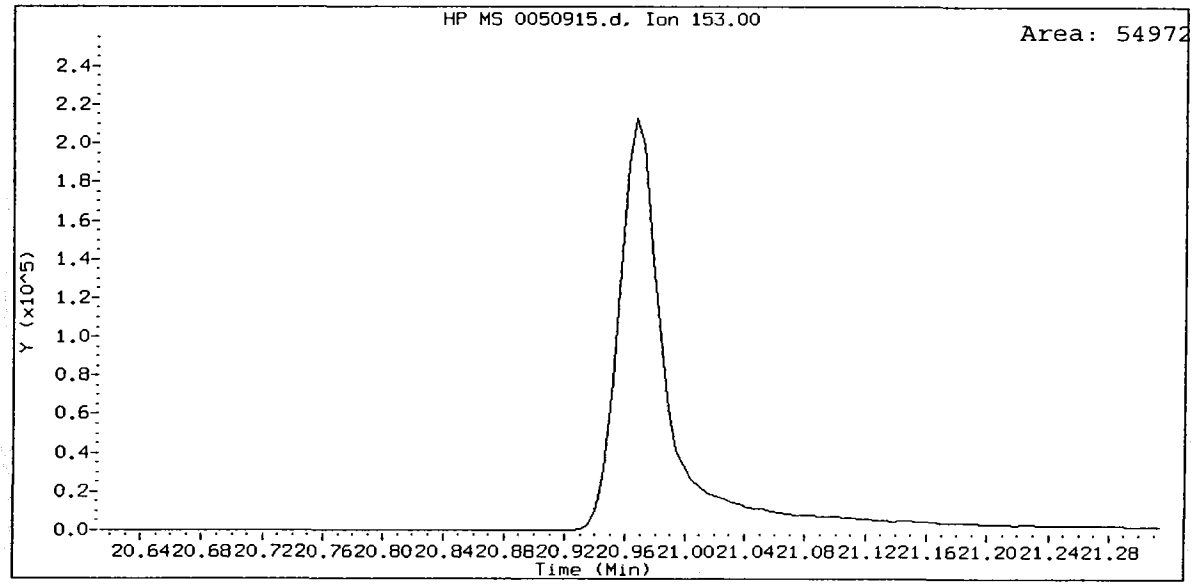
Di-n-octylphthalate-d4 Amount: 20.00



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20080915.b/0100915.d
Lab Smp Id: ABN 10
Inj Date : 15-SEP-2008 14:30
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : ABN 10
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20080915.b/SW846.m
Meth Date : 15-Sep-2008 16:18 jeff Quant Type: ISTD
Cal Date : 15-SEP-2008 14:30 Cal File: 0100915.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: GUAIACAL.sub
Target Version: 3.50

LJR 9/15/08

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 137 d8-1,4-Dioxane	96	2.769	2.769	(0.339)	57304	10.0000	10.96
143 1,4-Dioxane	88	2.822	2.822	(0.345)	58895	10.0000	10.76
103 Pyridine	79	3.543	3.543	(0.433)	136791	10.0000	10.73 (M)
90 N-Nitrosodimethylamine	74	3.538	3.538	(0.433)	85672	10.0000	10.65
$ 1 2-Fluorophenol	112	6.188	6.188	(0.757)	113458	10.0000	11.18
91 Aniline	93	7.721	7.721	(0.944)	193948	10.0000	11.39
$ 2 Phenol-d5	99	7.721	7.721	(0.944)	157506	10.0000	11.54
3 Phenol	94	7.737	7.737	(0.946)	181605	10.0000	11.20
4 Bis(2-Chloroethyl)ether	93	7.839	7.839	(0.959)	132436	10.0000	10.97
$ 5 2-Chlorophenol-d4	132	7.865	7.865	(0.962)	93837	10.0000	11.33
6 2-Chlorophenol	128	7.887	7.887	(0.965)	112405	10.0000	11.10
179 n-Decane	57	8.004	8.004	(0.979)	174409	10.0000	10.91
7 1,3-Dichlorobenzene	146	8.111	8.111	(0.992)	113232	10.0000	10.73
* 8 1,4-Dichlorobenzene-d4	152	8.175	8.175	(1.000)	126469	20.0000	
9 1,4-Dichlorobenzene	146	8.197	8.197	(1.003)	111906	10.0000	10.73
11 Benzyl alcohol	108	8.448	8.448	(1.033)	97098	10.0000	11.56
$ 10 1,2-Dichlorobenzene-d4	152	8.474	8.474	(1.037)	65328	10.0000	11.84
12 1,2-Dichlorobenzene	146	8.496	8.496	(1.039)	106033	10.0000	10.82
13 2-Methylphenol	108	8.677	8.677	(1.061)	117809	10.0000	11.00
14 2,2'-oxybis(1-Chloropropane)	45	8.720	8.720	(1.067)	204672	10.0000	10.67
123 Acetophenone	105	8.870	8.870	(1.085)	148958	10.0000	10.66
15 4-Methylphenol	108	8.912	8.912	(1.090)	124642	10.0000	11.33
16 N-Nitroso-di-n-propylamine	70	8.928	8.928	(1.092)	91511	10.0000	10.77
17 Hexachloroethane	117	8.987	8.987	(1.099)	50208	10.0000	10.88
$ 18 Nitrobenzene-d5	82	9.105	9.105	(0.890)	130464	10.0000	11.06
106 Guaiacol	124	9.137	9.137	(1.118)	71827	10.0000	11.27
19 Nitrobenzene	77	9.137	9.137	(0.893)	133711	10.0000	10.91

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	20 Isophorone	82	9.516	9.516	(0.931)	223434	10.0000	10.73
	21 2-Nitrophenol	139	9.655	9.655	(0.944)	57190	10.0000	10.99
	22 2,4-Dimethylphenol	107	9.756	9.756	(0.954)	118774	10.0000	11.29
	23 Bis(2-Chloroethoxy)methane	93	9.911	9.911	(0.969)	149681	10.0000	10.77
	25 2,4-Dichlorophenol	162	10.034	10.034	(0.981)	81829	10.0000	11.60
	24 Benzoic acid	105	9.943	9.943	(0.972)	180465	20.0000	20.63 (M)
	26 1,2,4-Trichlorobenzene	180	10.173	10.173	(0.995)	80873	10.0000	10.76
*	27 Naphthalene-d8	136	10.227	10.227	(1.000)	467169	20.0000	
	28 Naphthalene	128	10.259	10.259	(1.003)	295668	10.0000	10.97
	29 4-Chloroaniline	127	10.403	10.403	(1.017)	130044	10.0000	11.54
	30 Hexachlorobutadiene	225	10.584	10.584	(1.035)	43050	10.0000	10.82
	185 4-Chloroguaiacol	115	11.156	11.156	(1.365)	21302	5.00000	5.574
	31 4-Chloro-3-methylphenol	107	11.204	11.204	(1.096)	99366	10.0000	11.43
	32 2-Methylnaphthalene	141	11.386	11.386	(1.113)	154406	10.0000	11.31
	105 1-methylnaphthalene	141	11.562	11.562	(1.131)	149286	10.0000	10.87
	33 Hexachlorocyclopentadiene	237	11.770	11.770	(0.898)	35108	10.0000	9.668
	34 2,4,6-Trichlorophenol	196	11.899	11.899	(0.908)	52392	10.0000	10.99
	35 2,4,5-Trichlorophenol	196	11.952	11.952	(0.912)	55507	10.0000	11.02
$	36 2-Fluorobiphenyl	172	12.032	12.032	(0.918)	183367	10.0000	11.21
	37 2-Chloronaphthalene	162	12.171	12.171	(0.928)	166618	10.0000	10.73
	184 3,4-Dichloroguaiacol	192	12.251	12.251	(1.499)	28422	10.0000	11.65
	38 2-Nitroaniline	65	12.401	12.401	(0.946)	67398	10.0000	10.53
	39 Dimethylphthalate	163	12.780	12.780	(0.975)	174504	10.0000	10.74
	40 Acenaphthylene	152	12.855	12.855	(0.980)	256154	10.0000	10.91
	41 2,6-Dinitrotoluene	165	12.876	12.876	(0.982)	36694	10.0000	10.44
	107 4,5-Dichloroguaiacol	192	13.042	13.042	(0.995)	41860	10.0000	10.68
	182 4,6-Dichloroguaiacol	192	13.063	13.063	(1.598)	33353	10.0000	12.02
	43 3-Nitroaniline	138	13.085	13.085	(0.998)	49490	10.0000	11.92
*	42 Acenaphthene-d10	164	13.111	13.111	(1.000)	229149	20.0000	
	44 Acenaphthene	153	13.159	13.159	(1.004)	163473	10.0000	10.72
	45 2,4-Dinitrophenol	184	13.250	13.250	(1.011)	37104	20.0000	18.70
	133 Butylatedhydroxytoluene	205	13.282	13.282	(1.013)	106530	10.0000	10.87
	47 4-Nitrophenol	109	13.368	13.368	(1.020)	26869	10.0000	10.44
	46 Dibenzofuran	168	13.421	13.421	(1.024)	226189	10.0000	11.17
	168 Pentachlorobenzene	250	13.464	13.464	(1.027)	58141	10.0000	10.82
	48 2,4-Dinitrotoluene	165	13.501	13.501	(1.030)	48897	10.0000	10.38
	181 3,4,6-Trichloroguaiacol	211	13.800	13.800	(1.688)	25213	10.0000	11.72
	109 3,4,5-Trichloroguaiacol	213	13.918	13.918	(0.898)	27949	10.0000	11.52
	50 Diethylphthalate	149	13.939	13.939	(1.063)	182129	10.0000	10.85
	49 Fluorene	166	13.982	13.982	(1.066)	180663	10.0000	10.96
	51 4-Chlorophenyl-phenylether	204	14.003	14.003	(1.068)	77266	10.0000	10.98
	52 4-Nitroaniline	138	14.078	14.078	(1.074)	49150	10.0000	10.76
	53 4,6-Dinitro-2-methylphenol	198	14.158	14.158	(0.913)	54094	20.0000	20.67
	54 N-Nitrosodiphenylamine	169	14.206	14.206	(0.917)	91475	10.0000	10.84
	111 Azobenzene (1,2-DP-Hydrazine)	77	14.254	14.254	(1.087)	245404	10.0000	10.81
	115 Tributyl Phosphate	99	14.303	14.303	(0.923)	222868	10.0000	11.31
$	55 2,4,6-Tribromophenol	330	14.404	14.404	(1.099)	22472	10.0000	11.03

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
56	4-Bromophenyl-phenylether	248	14.794	14.794	(0.954)	44247	10.0000	10.91
108	4,5,6-Trichloroguaiacol	213	14.837	14.837	(1.132)	24154	10.0000	11.20
57	Hexachlorobenzene	284	15.013	15.013	(0.969)	45396	10.0000	10.79
58	Pentachlorophenol	266	15.307	15.307	(0.988)	31316	10.0000	10.91
180	n-Octadecane	57	15.408	15.408	(0.994)	181831	10.0000	11.24
110	Tetrachloroguaiacol	247	15.435	15.435	(0.996)	45679	20.0000	22.62
* 59	Phenanthrene-d10	188	15.499	15.499	(1.000)	321497	20.0000	
60	Phenanthrene	178	15.537	15.537	(1.002)	243360	10.0000	11.01
61	Anthracene	178	15.606	15.606	(1.007)	242256	10.0000	10.98
62	Carbazole	167	15.889	15.889	(1.025)	221804	10.0000	11.08
116	Dibutyl Phenyl Phosphate	175	16.044	16.044	(1.035)	102317	10.0000	10.93
63	Di-n-butylphthalate	149	16.605	16.605	(1.071)	279873	10.0000	11.17
64	Fluoranthene	202	17.481	17.481	(1.128)	227195	10.0000	10.93
93	Benzidine	184	17.727	17.727	(0.894)	77183	10.0000	10.90
117	Butyl Diphenyl Phosphate	94	17.743	17.743	(0.895)	46770	10.0000	11.36
65	Pyrene	202	17.839	17.839	(0.900)	237419	10.0000	11.64
$ 66	Terphenyl-d14	244	18.149	18.149	(0.915)	145303	10.0000	12.15
98	Retene	219	18.400	18.400	(0.928)	89566	10.0000	11.70
67	Butylbenzylphthalate	149	19.036	19.036	(0.960)	98680	10.0000	10.76
118	Triphenyl Phosphate	326	19.356	19.356	(0.976)	28280	10.0000	10.65
68	Benzo(a)anthracene	228	19.805	19.805	(0.999)	191598	10.0000	10.84
70	3,3'-Dichlorobenzidine	252	19.810	19.810	(0.999)	63713	10.0000	11.41
* 69	Chrysene-d12	240	19.832	19.832	(1.000)	246896	20.0000	
71	Chrysene	228	19.874	19.874	(1.002)	196805	10.0000	10.81
72	bis(2-Ethylhexyl)phthalate	149	20.029	20.029	(0.955)	125131	10.0000	11.32 (M)
* 134	Di-n-octylphthalate-d4	153	20.964	20.964	(1.000)	397960	20.0000	(M)
73	Di-n-octylphthalate	149	20.975	20.975	(1.000)	242676	10.0000	10.67 (M)
74	Benzo(b)fluoranthene	252	21.466	21.466	(0.976)	204737	10.0000	10.42
75	Benzo(k)fluoranthene	252	21.498	21.498	(0.977)	225427	10.0000	11.22
76	Benzo(a)pyrene	252	21.920	21.920	(0.996)	196413	10.0000	10.84
* 77	Perylene-d12	264	22.001	22.001	(1.000)	288252	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	23.576	23.576	(1.072)	253155	10.0000	11.58
79	Dibenzo(a,h)anthracene	278	23.603	23.603	(1.073)	212456	10.0000	11.71
80	Benzo(g,h,i)perylene	276	24.015	24.015	(1.092)	229013	10.0000	11.40

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 0100915.d
Lab Smp Id: ABN 10
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20080915.b/SW846.m
Misc Info:

Calibration Date: 15-SEP-2008
Calibration Time: 11:35

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134449	67224	268898	126469	-5.94
27 Naphthalene-d8	498098	249049	996196	467169	-6.21
42 Acenaphthene-d10	240116	120058	480232	229149	-4.57
59 Phenanthrene-d10	337544	168772	675088	321497	-4.75
69 Chrysene-d12	261699	130850	523398	246896	-5.66
134 Di-n-octylphthala	511931	255966	1023862	397960	-22.26
77 Perylene-d12	338505	169252	677010	288252	-14.85

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.17	7.67	8.67	8.18	0.01
27 Naphthalene-d8	10.23	9.73	10.73	10.23	-0.04
42 Acenaphthene-d10	13.11	12.61	13.61	13.11	0.01
59 Phenanthrene-d10	15.50	15.00	16.00	15.50	0.01
69 Chrysene-d12	19.84	19.34	20.34	19.83	-0.02
134 Di-n-octylphthala	20.97	20.47	21.47	20.96	-0.02
77 Perylene-d12	22.00	21.50	22.50	22.00	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

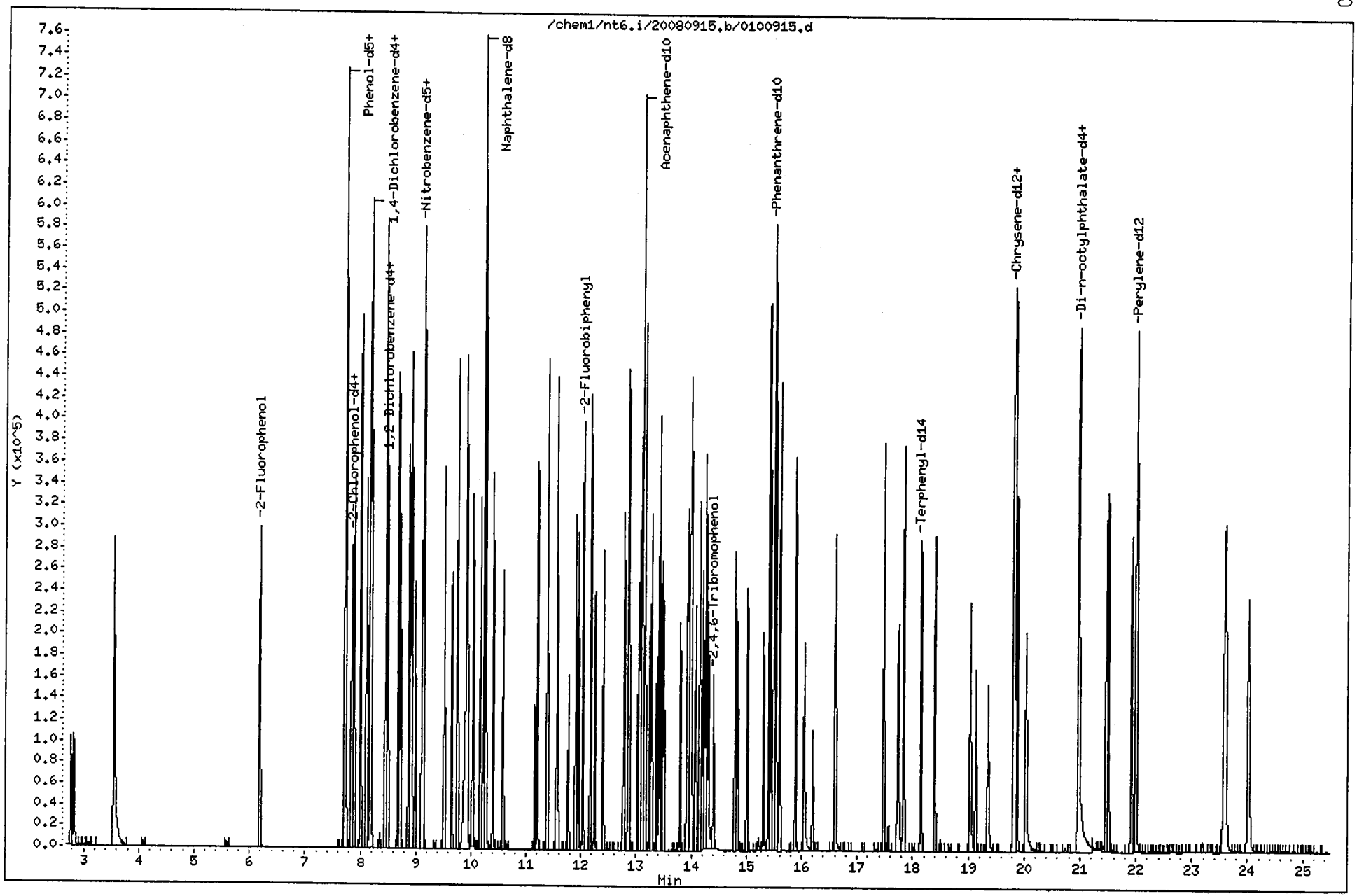
Data File: /chem1/nt6.i/20080915.b/0100915.d
Date : 15-SEP-2008 14:30
Client ID:
Sample Info: ABN 10

Instrument: nt6.i

Operator: LJR/VTS
Column diameter: 0.32

Column phase: ZB-5

0217



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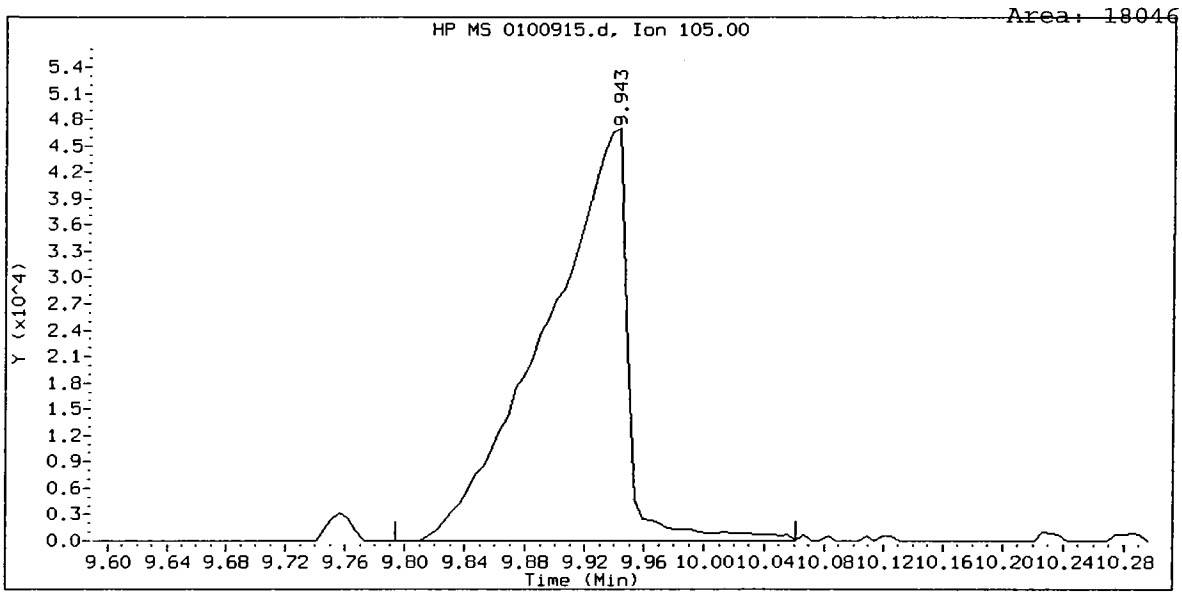
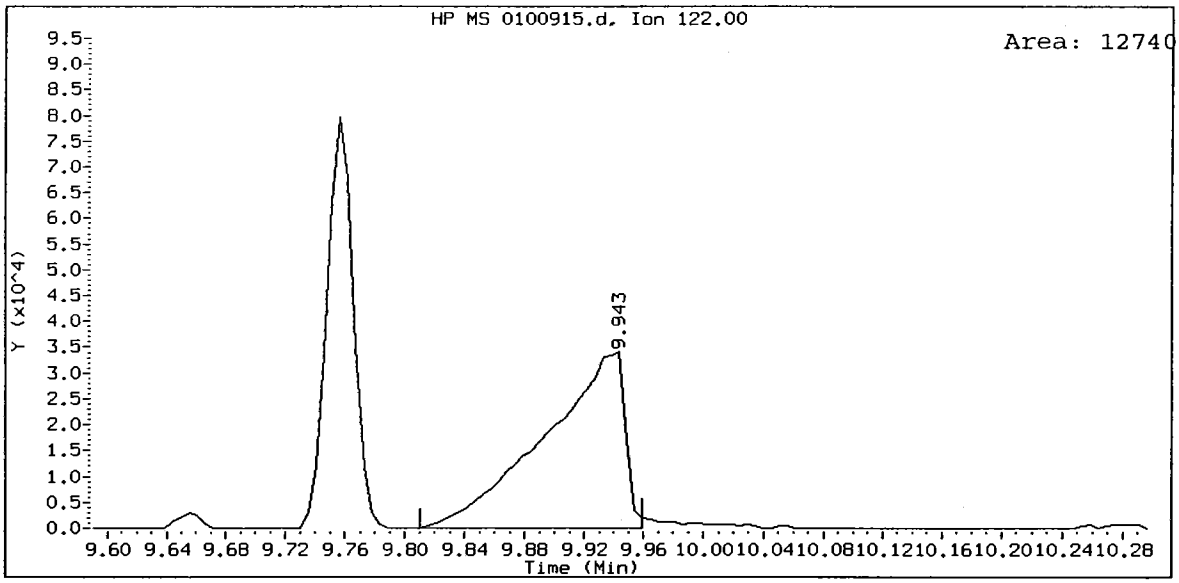
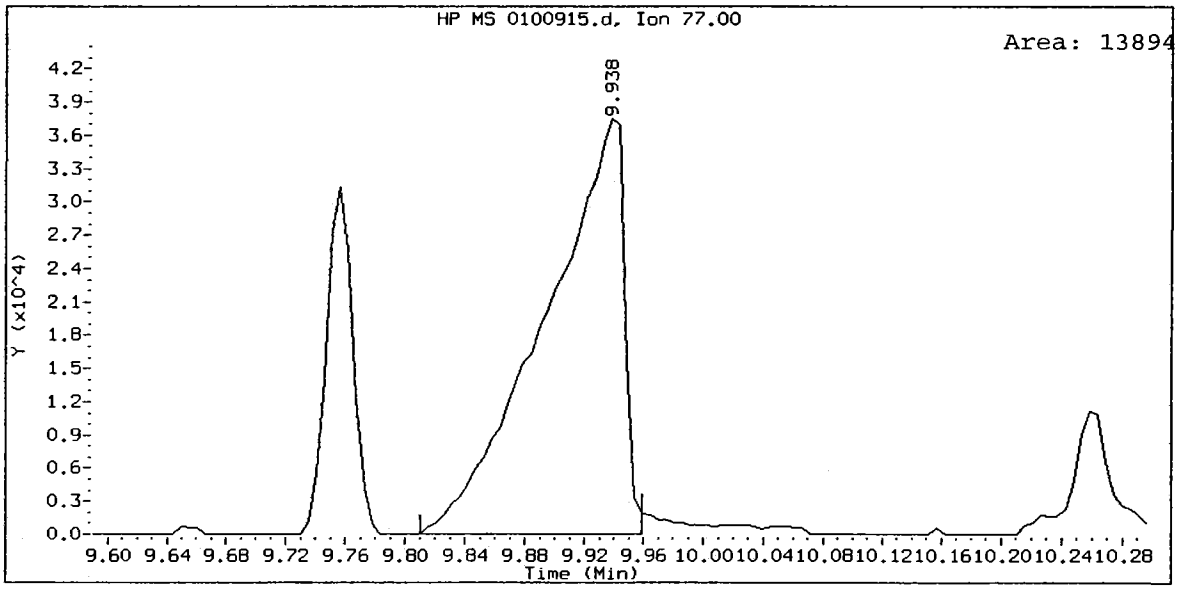
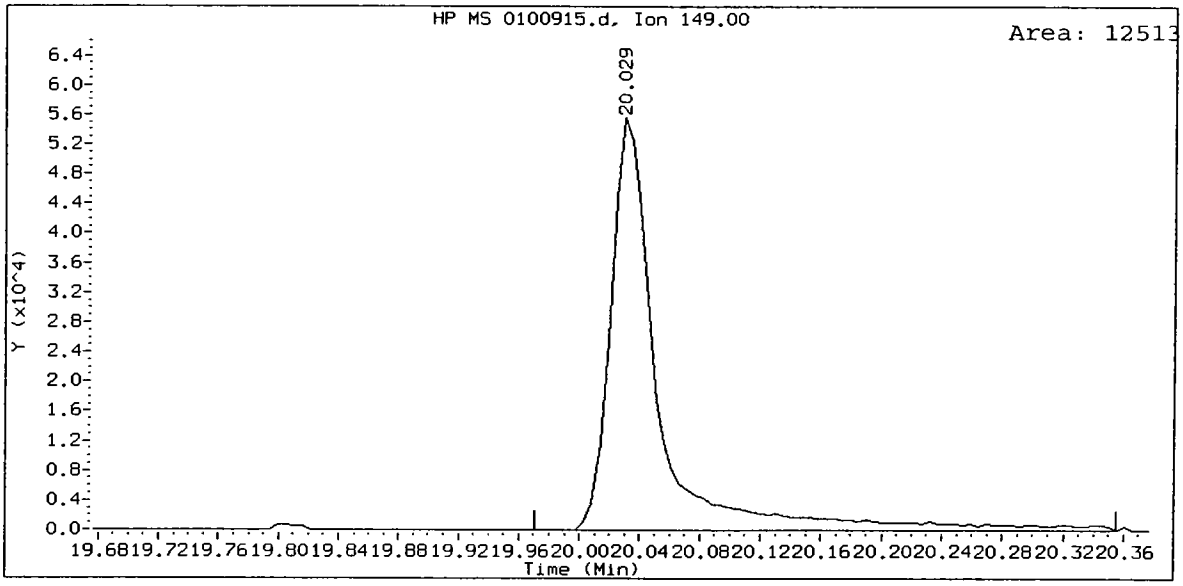
Benzoic acid Amount: 20.63

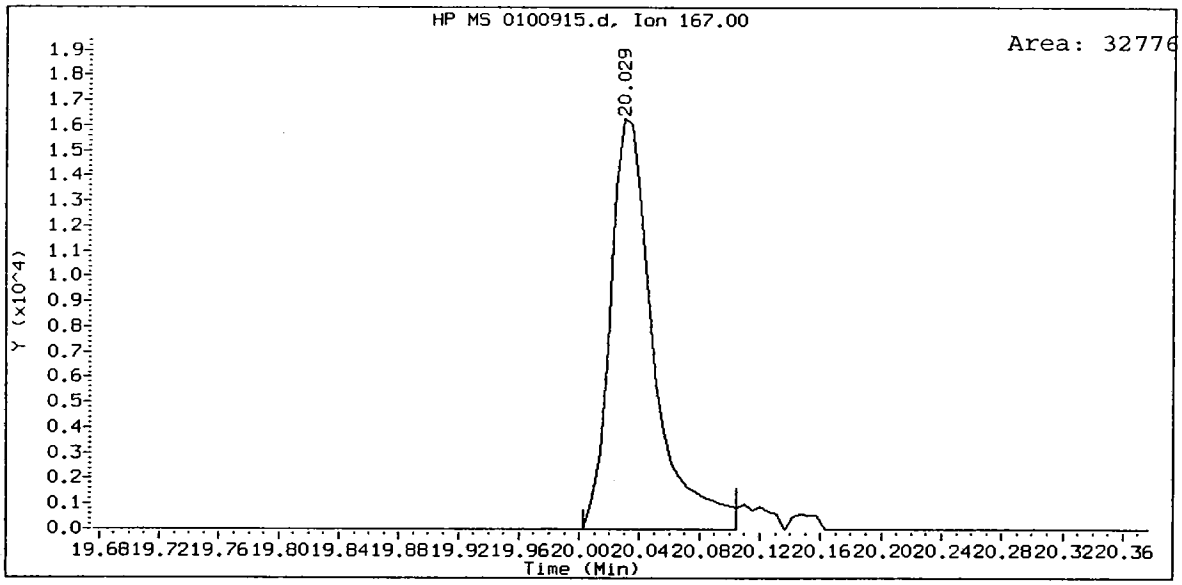


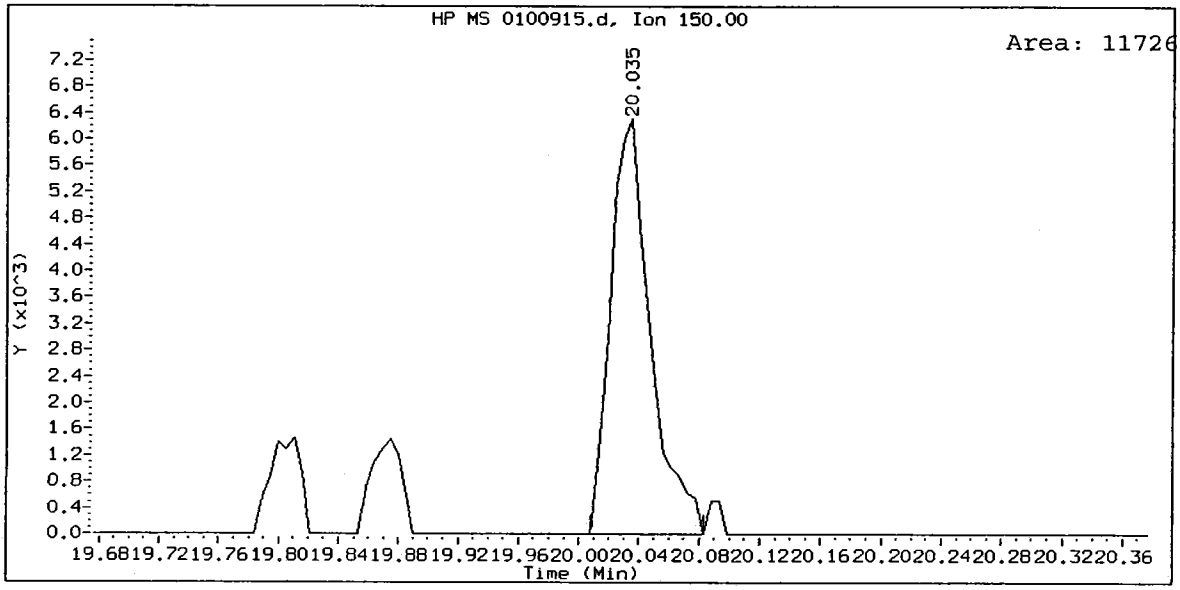




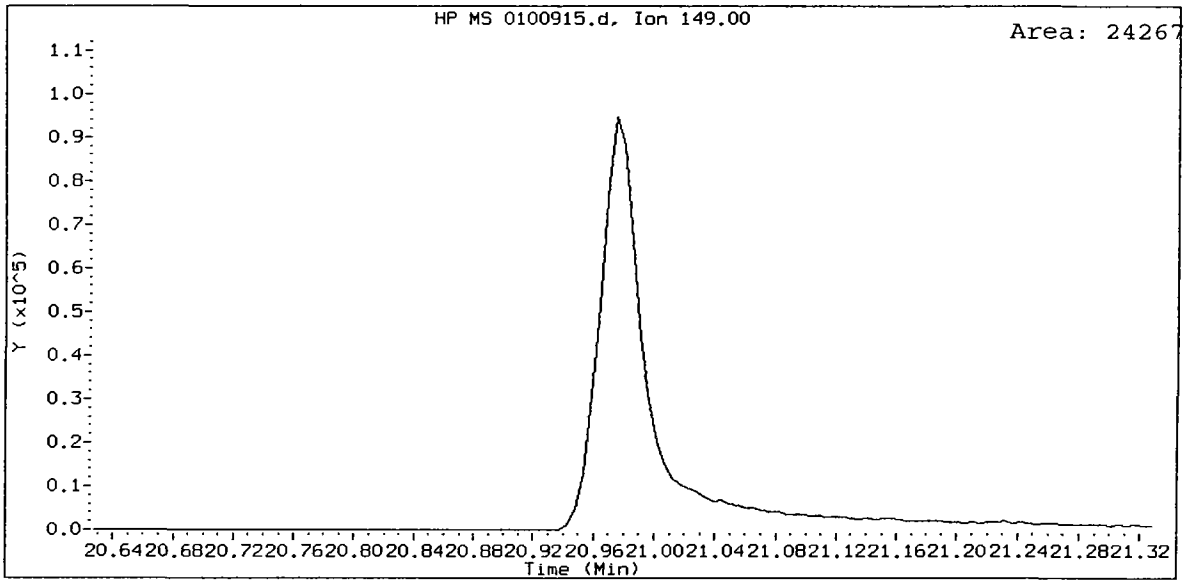
ABN 10, /chem1/nt6.i/20080915.b/0100915.d
bis(2-Ethylhexyl)phthalate Amount: 11.32

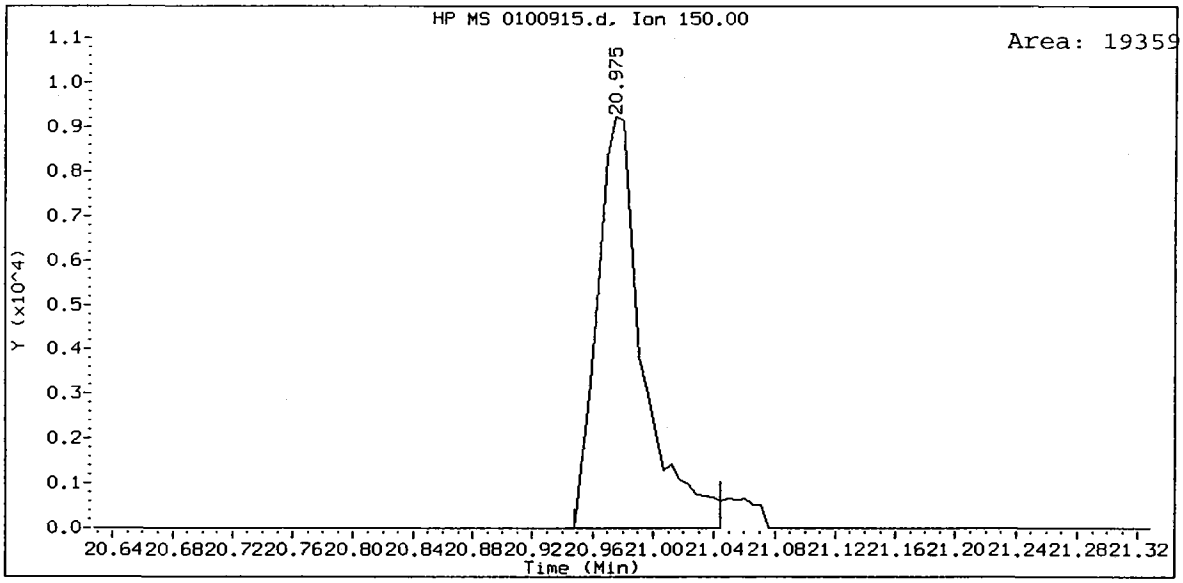


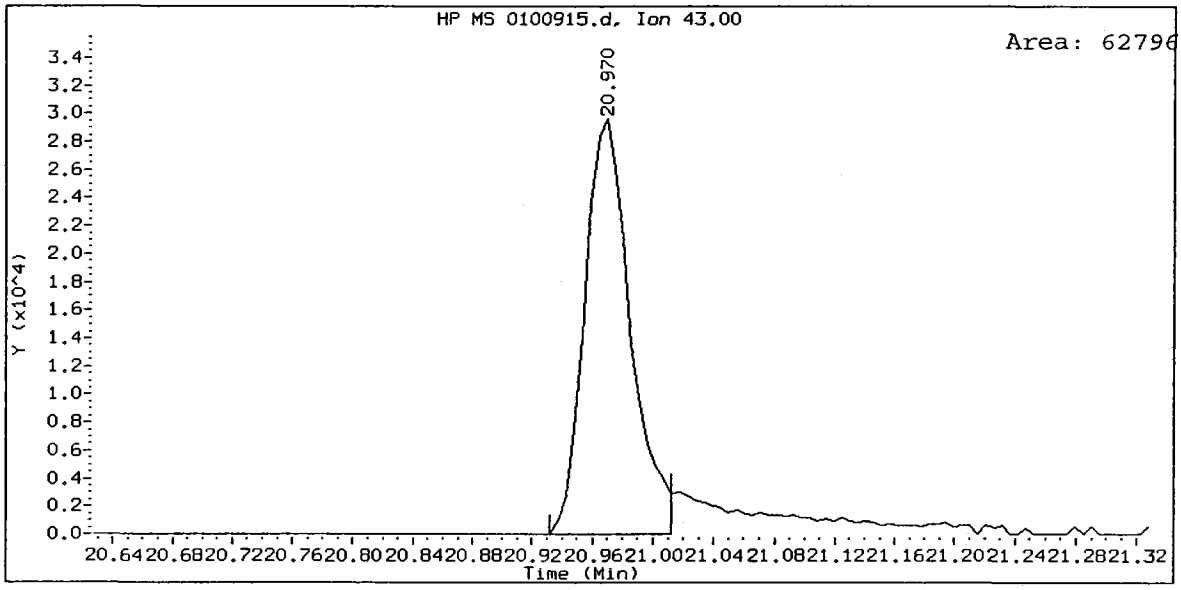




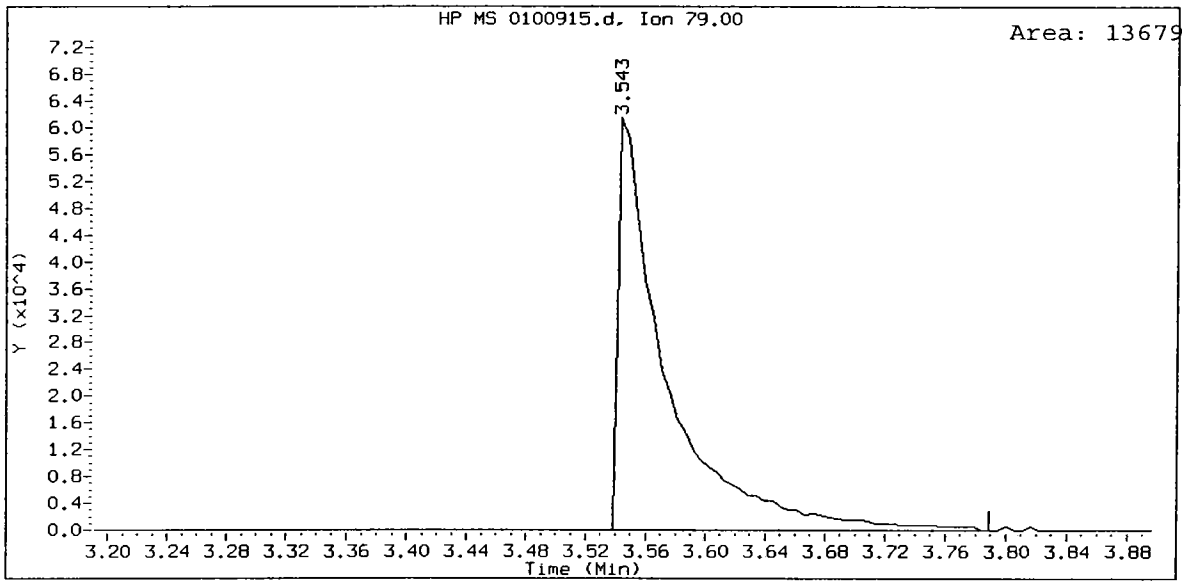
ABN 10, /chem1/nt6.i/20080915.b/0100915.d
Di-n-octylphthalate Amount: 10.67

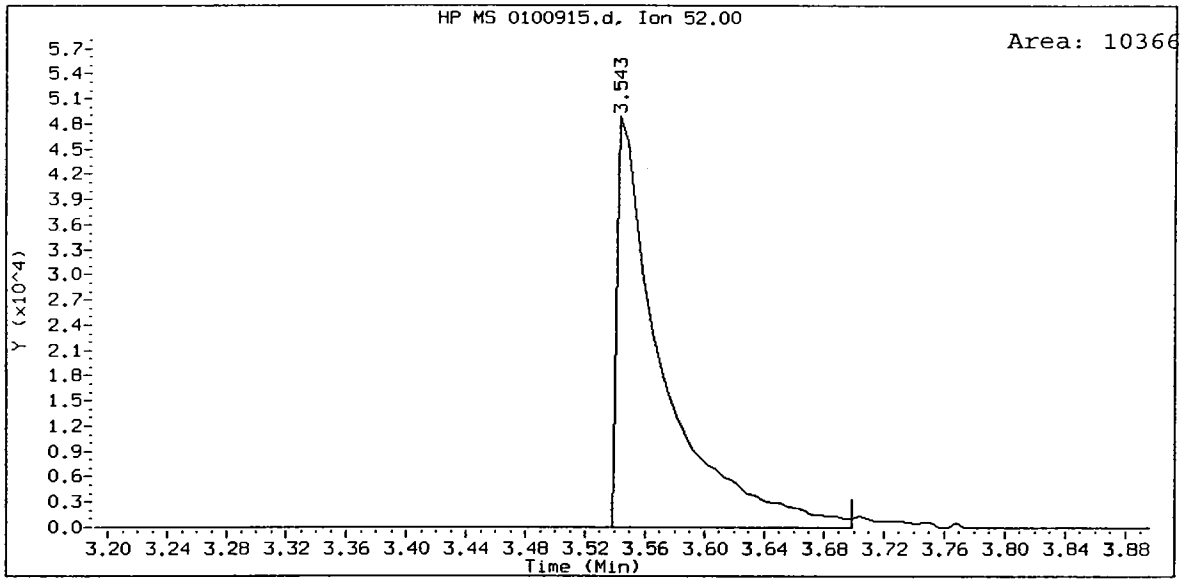




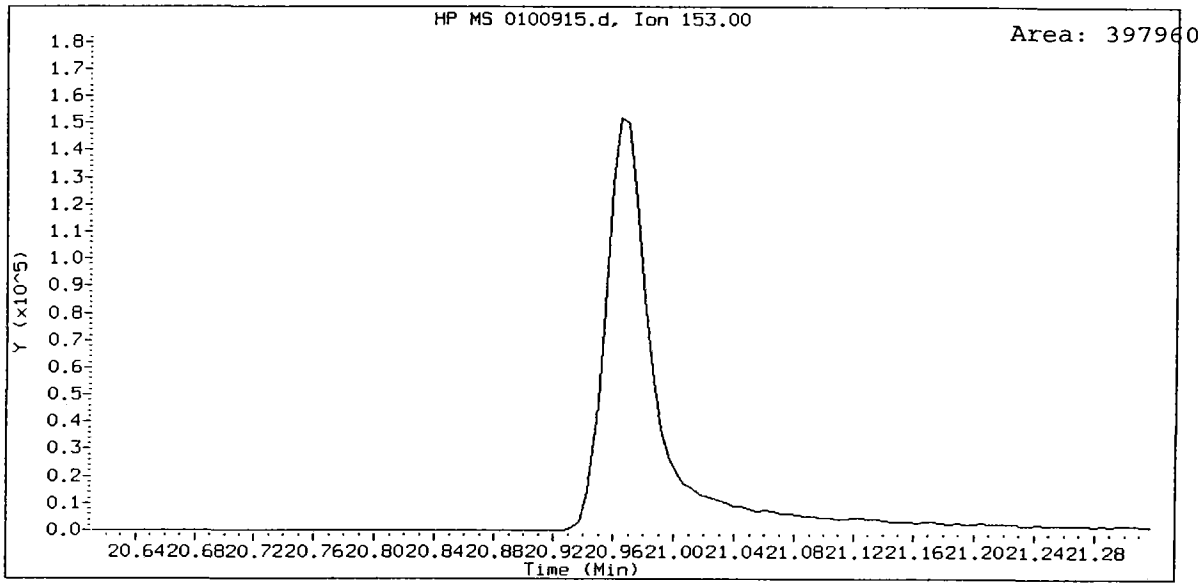


ABN 10, /chem1/nt6.i/20080915.b/0100915.d
Pyridine Amount: 10.73





ABN 10, /chem1/nt6.i/20080915.b/0100915.d
Di-n-octylphthalate-d4 Amount: 20.00



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20080915.b/0250915.d
Lab Smp Id: ABN 25
Inj Date : 15-SEP-2008 11:35
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : ABN 25
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20080915.b/SW846.m
Meth Date : 15-Sep-2008 16:18 jeff Quant Type: ISTD
Cal Date : 15-SEP-2008 11:35 Cal File: 0250915.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: GUAIACAL.sub
Target Version: 3.50

LJR 9/15/08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 137	d8-1,4-Dioxane	96	2.768	2.769	(0.339)	135467	25.0000	25.00
143	1,4-Dioxane	88	2.827	2.822	(0.346)	141392	25.0000	25.00
103	Pyridine	79	3.537	3.543	(0.433)	340839	25.0000	25.00
90	N-Nitrosodimethylamine	74	3.553	3.538	(0.435)	207702	25.0000	25.00
$ 1	2-Fluorophenol	112	6.187	6.188	(0.757)	262743	25.0000	25.00
91	Aniline	93	7.726	7.721	(0.945)	436390	25.0000	25.00
$ 2	Phenol-d5	99	7.726	7.721	(0.945)	345661	25.0000	25.00
3	Phenol	94	7.747	7.737	(0.948)	402653	25.0000	25.00
4	Bis(2-Chloroethyl)ether	93	7.843	7.839	(0.959)	303771	25.0000	25.00
$ 5	2-Chlorophenol-d4	132	7.864	7.865	(0.962)	210910	25.0000	25.00
6	2-Chlorophenol	128	7.891	7.887	(0.965)	253877	25.0000	25.00
179	n-Decane	57	8.003	8.004	(0.979)	405444	25.0000	25.00
7	1,3-Dichlorobenzene	146	8.110	8.111	(0.992)	258986	25.0000	25.00
* 8	1,4-Dichlorobenzene-d4	152	8.174	8.175	(1.000)	134449	20.0000	
9	1,4-Dichlorobenzene	146	8.201	8.197	(1.003)	258321	25.0000	25.00
11	Benzyl alcohol	108	8.457	8.448	(1.035)	214904	25.0000	25.00
$ 10	1,2-Dichlorobenzene-d4	152	8.474	8.474	(1.037)	140800	25.0000	25.00
12	1,2-Dichlorobenzene	146	8.495	8.496	(1.039)	241018	25.0000	25.00
13	2-Methylphenol	108	8.687	8.677	(1.063)	274450	25.0000	25.00
14	2,2'-oxybis(1-Chloropropane)	45	8.719	8.720	(1.067)	489572	25.0000	25.00
123	Acetophenone	105	8.874	8.870	(1.086)	364082	25.0000	25.00
15	4-Methylphenol	108	8.917	8.912	(1.091)	276907	25.0000	25.00
16	N-Nitroso-di-n-propylamine	70	8.938	8.928	(1.093)	217574	25.0000	25.00
17	Hexachloroethane	117	8.986	8.987	(1.099)	117871	25.0000	25.00
$ 18	Nitrobenzene-d5	82	9.109	9.105	(0.890)	304427	25.0000	25.00
106	Guaiacol	124	9.136	9.137	(1.118)	166113	25.0000	25.00
19	Nitrobenzene	77	9.141	9.137	(0.893)	305695	25.0000	25.00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	20 Isophorone	82	9.521	9.516	(0.931)	522638	25.0000	25.00
	21 2-Nitrophenol	139	9.659	9.655	(0.944)	138281	25.0000	25.00
	22 2,4-Dimethylphenol	107	9.761	9.756	(0.954)	266988	25.0000	25.00
	23 Bis(2-Chloroethoxy)methane	93	9.916	9.911	(0.969)	345797	25.0000	25.00
	25 2,4-Dichlorophenol	162	10.039	10.034	(0.981)	184772	25.0000	25.00
	24 Benzoic acid	105	10.012	9.943	(0.979)	468971	50.0000	50.00 (M)
	26 1,2,4-Trichlorobenzene	180	10.172	10.173	(0.994)	186922	25.0000	25.00
*	27 Naphthalene-d8	136	10.231	10.227	(1.000)	498098	20.0000	
	28 Naphthalene	128	10.263	10.259	(1.003)	669825	25.0000	25.00
	29 4-Chloroaniline	127	10.402	10.403	(1.017)	291982	25.0000	25.00
	30 Hexachlorobutadiene	225	10.584	10.584	(1.034)	98541	25.0000	25.00
	185 4-Chloroguaiacol	115	11.161	11.156	(1.365)	54517	12.5000	12.50
	31 4-Chloro-3-methylphenol	107	11.209	11.204	(1.096)	225698	25.0000	25.00
	32 2-Methylnaphthalene	141	11.390	11.386	(1.113)	337919	25.0000	25.00
	105 1-methylnaphthalene	141	11.561	11.562	(1.130)	340155	25.0000	25.00
	33 Hexachlorocyclopentadiene	237	11.775	11.770	(0.898)	95047	25.0000	25.00
	34 2,4,6-Trichlorophenol	196	11.903	11.899	(0.908)	120950	25.0000	25.00
	35 2,4,5-Trichlorophenol	196	11.957	11.952	(0.912)	127105	25.0000	25.00
$	36 2-Fluorobiphenyl	172	12.037	12.032	(0.918)	401320	25.0000	25.00
	37 2-Chloronaphthalene	162	12.176	12.171	(0.929)	376622	25.0000	25.00
	184 3,4-Dichloroguaiacol	192	12.250	12.251	(1.499)	66933	25.0000	25.00
	38 2-Nitroaniline	65	12.405	12.401	(0.946)	163752	25.0000	25.00
	39 Dimethylphthalate	163	12.785	12.780	(0.975)	398022	25.0000	25.00
	40 Acenaphthylene	152	12.854	12.855	(0.980)	576607	25.0000	25.00
	41 2,6-Dinitrotoluene	165	12.881	12.876	(0.982)	90085	25.0000	25.00
	107 4,5-Dichloroguaiacol	192	13.046	13.042	(0.995)	101256	25.0000	25.00
	182 4,6-Dichloroguaiacol	192	13.068	13.063	(1.599)	76795	25.0000	25.00
	43 3-Nitroaniline	138	13.089	13.085	(0.998)	107777	25.0000	25.00
*	42 Acenaphthene-d10	164	13.110	13.111	(1.000)	240116	20.0000	
	44 Acenaphthene	153	13.164	13.159	(1.004)	366041	25.0000	25.00
	45 2,4-Dinitrophenol	184	13.255	13.250	(1.011)	111693	50.0000	50.00
	133 Butylatedhydroxytoluene	205	13.281	13.282	(1.013)	255009	25.0000	25.00
	47 4-Nitrophenol	109	13.378	13.368	(1.020)	66906	25.0000	25.00
	46 Dibenzofuran	168	13.426	13.421	(1.024)	489869	25.0000	25.00
	168 Pentachlorobenzene	250	13.468	13.464	(1.027)	131013	25.0000	25.00
	48 2,4-Dinitrotoluene	165	13.506	13.501	(1.030)	120821	25.0000	25.00
	181 3,4,6-Trichloroguaiacol	211	13.805	13.800	(1.689)	61407	25.0000	25.00
	109 3,4,5-Trichloroguaiacol	213	13.917	13.918	(0.898)	66468	25.0000	25.00
	50 Diethylphthalate	149	13.949	13.939	(1.064)	410407	25.0000	25.00
	49 Fluorene	166	13.987	13.982	(1.067)	398886	25.0000	25.00
	51 4-Chlorophenyl-phenylether	204	14.008	14.003	(1.068)	169158	25.0000	25.00
	52 4-Nitroaniline	138	14.093	14.078	(1.075)	116323	25.0000	25.00
	53 4,6-Dinitro-2-methylphenol	198	14.168	14.158	(0.914)	139632	50.0000	50.00
	54 N-Nitrosodiphenylamine	169	14.211	14.206	(0.917)	207774	25.0000	25.00
	111 Azobenzene (1,2-DP-Hydrazine)	77	14.259	14.254	(1.088)	559790	25.0000	25.00
	115 Tributyl Phosphate	99	14.312	14.303	(0.923)	547071	25.0000	25.00
$	55 2,4,6-Tribromophenol	330	14.409	14.404	(1.099)	50472	25.0000	25.00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	56 4-Bromophenyl-phenylether	248	14.793	14.794	(0.954)	101888	25.0000	25.00
	108 4,5,6-Trichloroguaiacol	213	14.841	14.837	(1.132)	58237	25.0000	25.00
	57 Hexachlorobenzene	284	15.018	15.013	(0.969)	101557	25.0000	25.00
	58 Pentachlorophenol	266	15.311	15.307	(0.988)	73163	25.0000	25.00
	180 n-Octadecane	57	15.408	15.408	(0.994)	412880	25.0000	25.00
	110 Tetrachloroguaiacol	247	15.445	15.435	(0.997)	103380	50.0000	50.00
*	59 Phenanthrene-d10	188	15.498	15.499	(1.000)	337544	20.0000	
	60 Phenanthrene	178	15.536	15.537	(1.002)	532755	25.0000	25.00
	61 Anthracene	178	15.611	15.606	(1.007)	532280	25.0000	25.00
	62 Carbazole	167	15.888	15.889	(1.025)	485529	25.0000	25.00
	116 Dibutyl Phenyl Phosphate	175	16.049	16.044	(1.036)	267572	25.0000	25.00
	63 Di-n-butylphthalate	149	16.604	16.605	(1.071)	640313	25.0000	25.00
	64 Fluoranthene	202	17.480	17.481	(1.128)	506043	25.0000	25.00
	93 Benzidine	184	17.731	17.727	(0.894)	199241	25.0000	25.00
	117 Butyl Diphenyl Phosphate	94	17.742	17.743	(0.894)	123033	25.0000	25.00
	65 Pyrene	202	17.838	17.839	(0.899)	519894	25.0000	25.00
$	66 Terphenyl-d14	244	18.153	18.149	(0.915)	314693	25.0000	25.00
	98 Retene	219	18.399	18.400	(0.928)	208016	25.0000	25.00
	67 Butylbenzylphthalate	149	19.035	19.036	(0.960)	256255	25.0000	25.00
	118 Triphenyl Phosphate	326	19.355	19.356	(0.976)	76891	25.0000	25.00
	68 Benzo(a)anthracene	228	19.810	19.805	(0.999)	441959	25.0000	25.00
	70 3,3'-Dichlorobenzidine	252	19.815	19.810	(0.999)	146719	25.0000	25.00
*	69 Chrysene-d12	240	19.836	19.832	(1.000)	261699	20.0000	
	71 Chrysene	228	19.879	19.874	(1.002)	450012	25.0000	25.00
	72 bis(2-Ethylhexyl)phthalate	149	20.034	20.029	(0.955)	372983	25.0000	25.00 (M)
*	134 Di-n-octylphthalate-d4	153	20.969	20.964	(1.000)	511931	20.0000	(M)
	73 Di-n-octylphthalate	149	20.979	20.975	(1.000)	722513	25.0000	25.00 (M)
	74 Benzo(b)fluoranthene	252	21.471	21.466	(0.976)	506039	25.0000	25.00
	75 Benzo(k)fluoranthene	252	21.508	21.498	(0.978)	554719	25.0000	25.00
	76 Benzo(a)pyrene	252	21.925	21.920	(0.997)	500881	25.0000	25.00
*	77 Perylene-d12	264	22.000	22.001	(1.000)	338505	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	23.586	23.576	(1.072)	609961	25.0000	25.00
	79 Dibenzo(a,h)anthracene	278	23.613	23.603	(1.073)	508961	25.0000	25.00
	80 Benzo(g,h,i)perylene	276	24.030	24.015	(1.092)	570363	25.0000	25.00

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 0250915.d
Lab Smp Id: ABN 25
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20080915.b/SW846.m
Misc Info:

Calibration Date: 15-SEP-2008
Calibration Time: 11:35

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134449	67224	268898	134449	0.00
27 Naphthalene-d8	498098	249049	996196	498098	0.00
42 Acenaphthene-d10	240116	120058	480232	240116	0.00
59 Phenanthrene-d10	337544	168772	675088	337544	0.00
69 Chrysene-d12	261699	130850	523398	261699	0.00
134 Di-n-octylphthala	511931	255966	1023862	511931	0.00
77 Perylene-d12	338505	169252	677010	338505	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.17	7.67	8.67	8.17	0.00
27 Naphthalene-d8	10.23	9.73	10.73	10.23	0.00
42 Acenaphthene-d10	13.11	12.61	13.61	13.11	0.00
59 Phenanthrene-d10	15.50	15.00	16.00	15.50	0.00
69 Chrysene-d12	19.84	19.34	20.34	19.84	0.00
134 Di-n-octylphthala	20.97	20.47	21.47	20.97	0.00
77 Perylene-d12	22.00	21.50	22.50	22.00	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

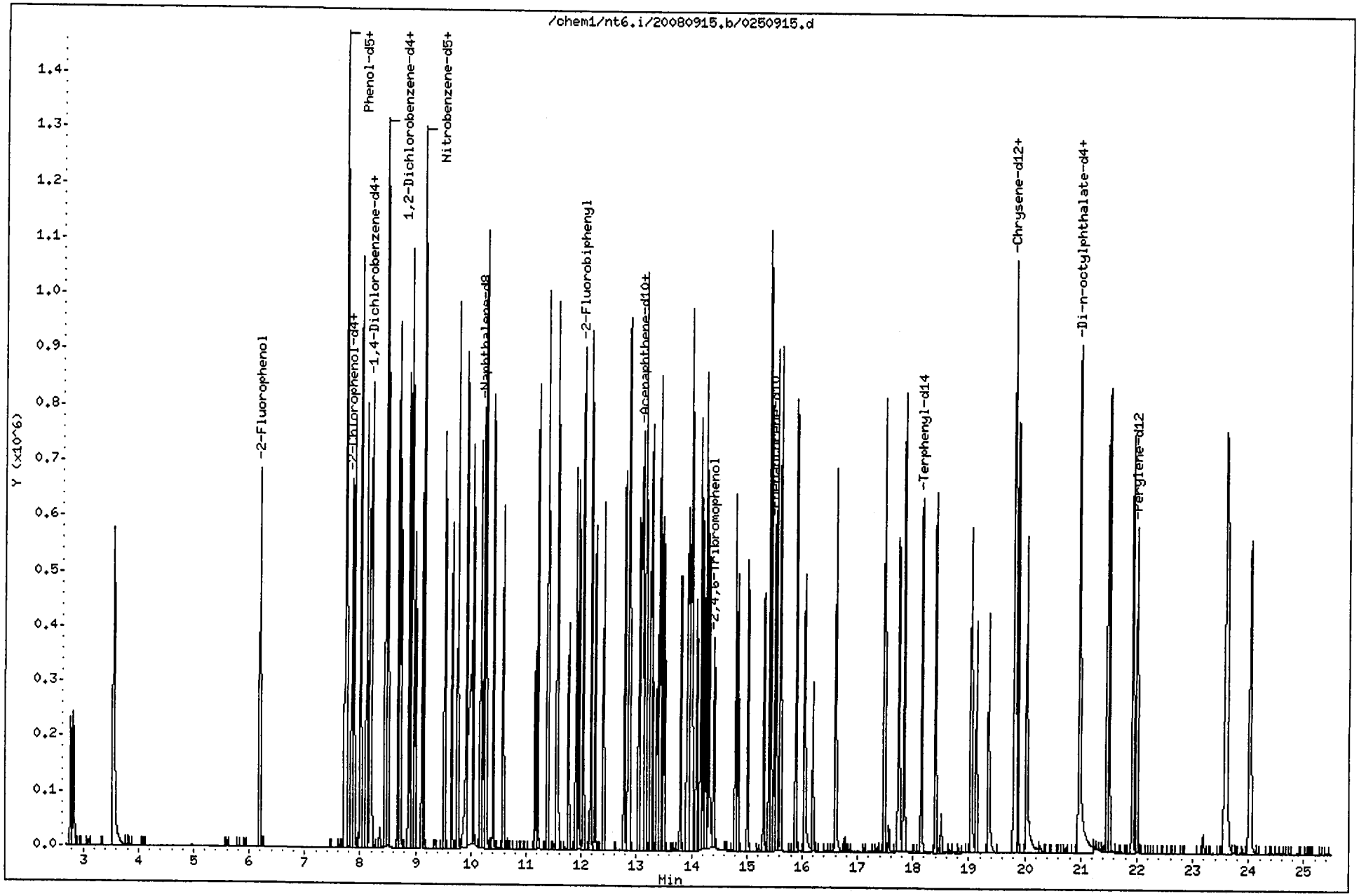
Data File: /chem1/nt6.i/20080915.b/0250915.d
Date : 15-SEP-2008 11:35
Client ID:
Sample Info: ABN 25

Instrument: nt6.i

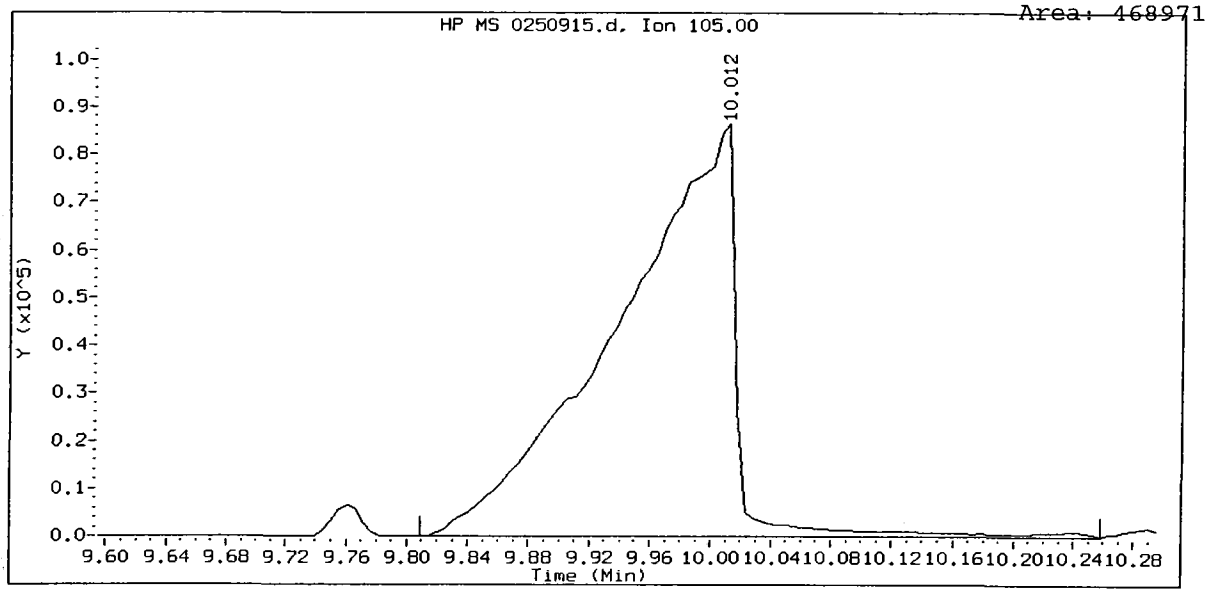
Operator: LJR/VTS
Column diameter: 0.32

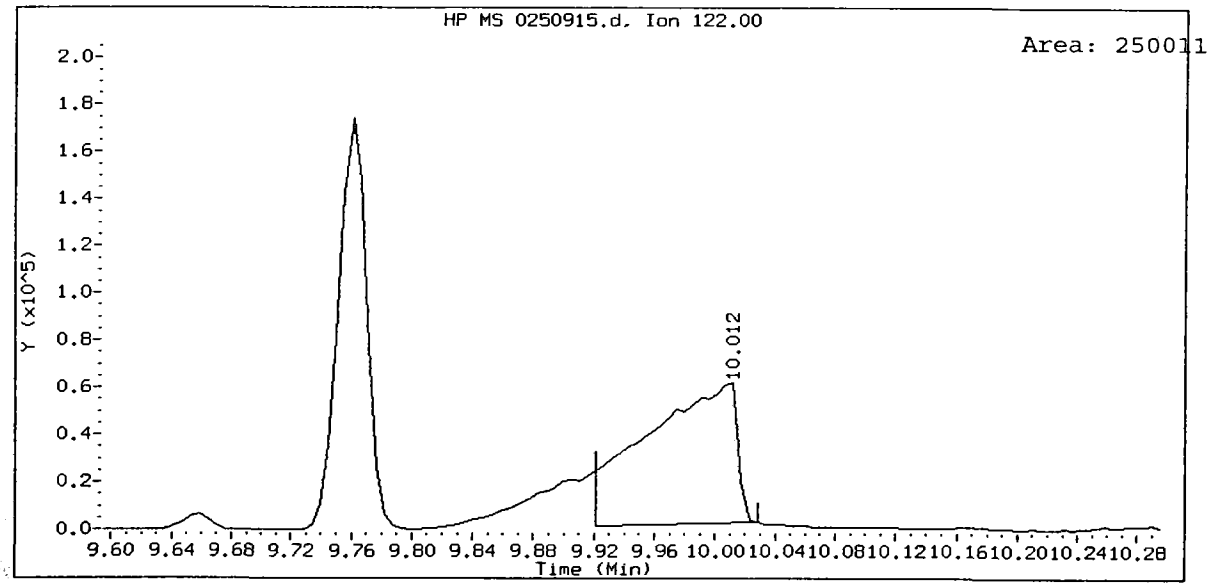
Column phase: ZB-5

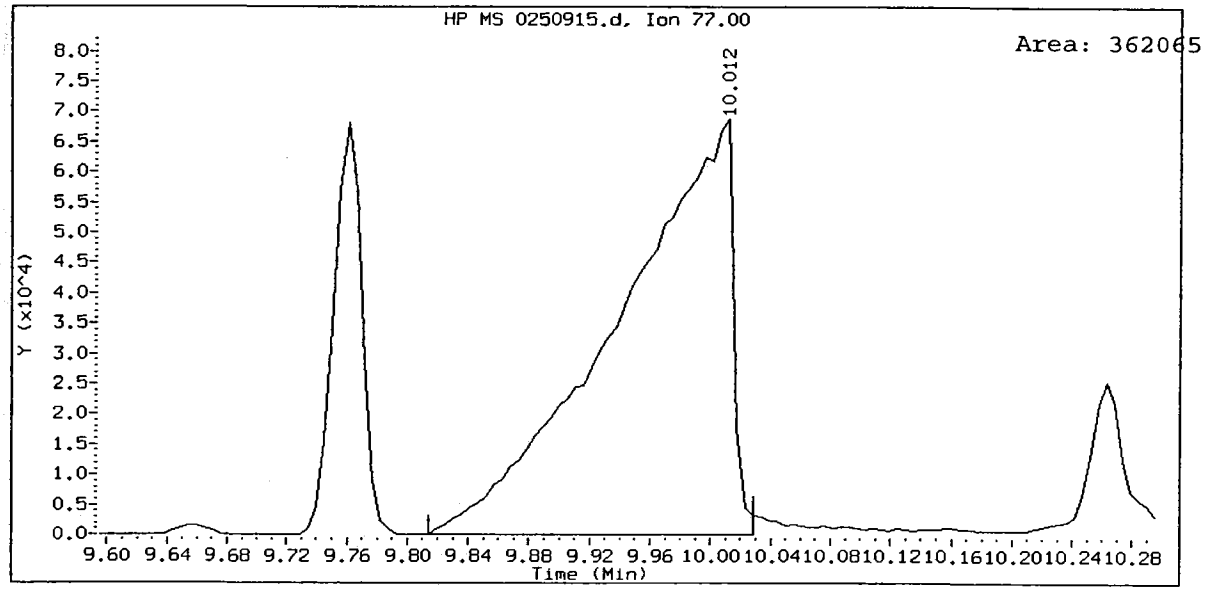
0227



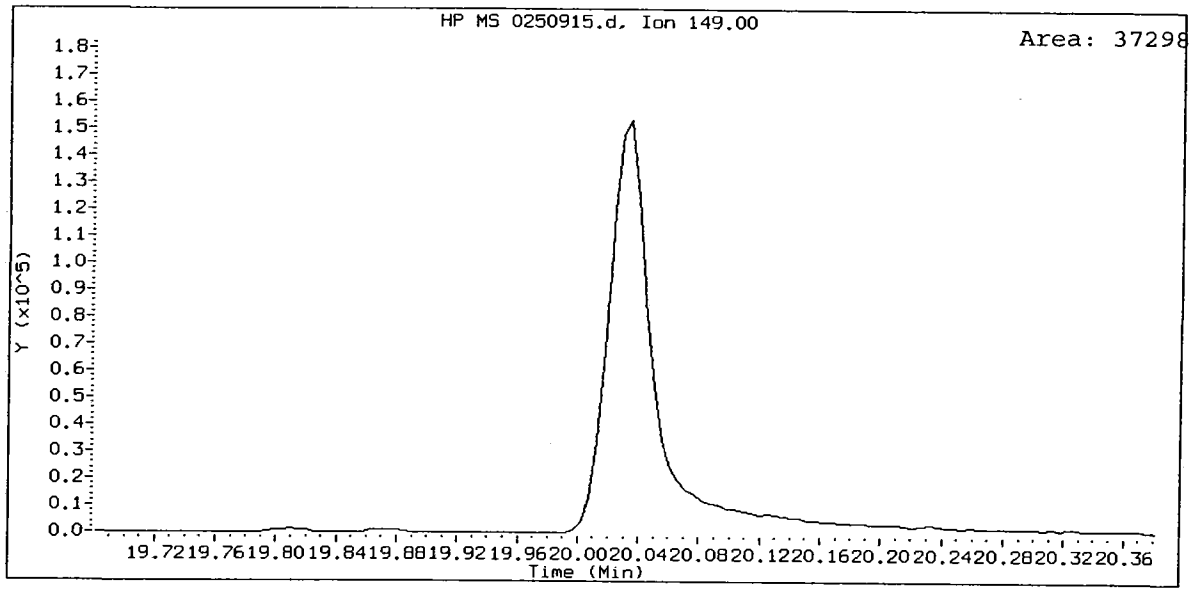
ABN 25, /chem1/nt6.i/20080915.b/0250915.d
Benzoic acid Amount: 50.00

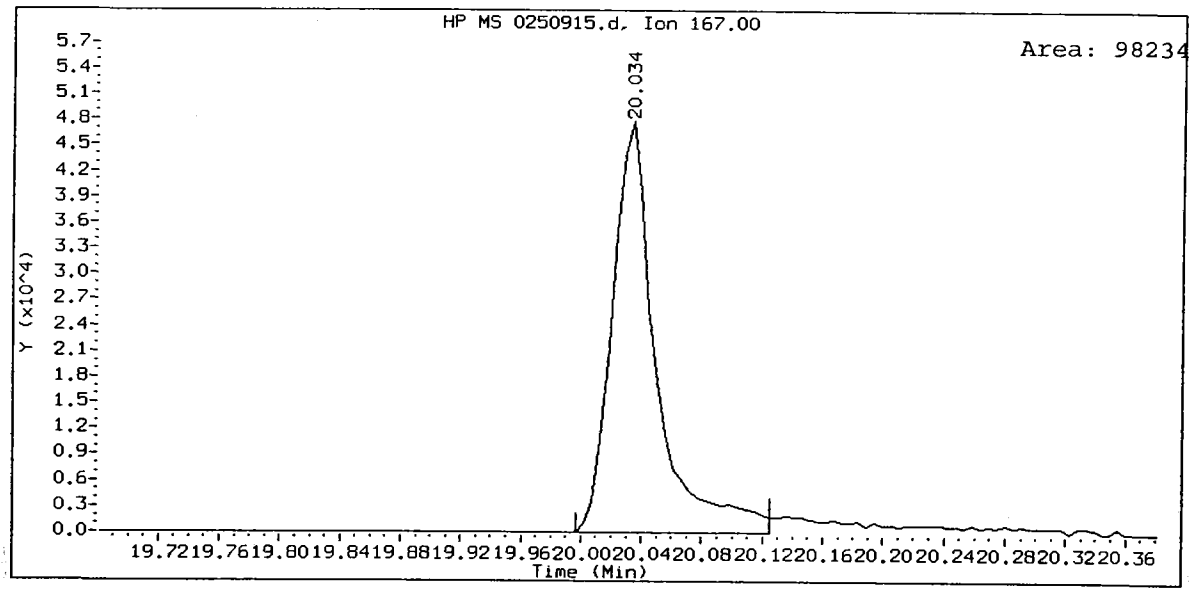


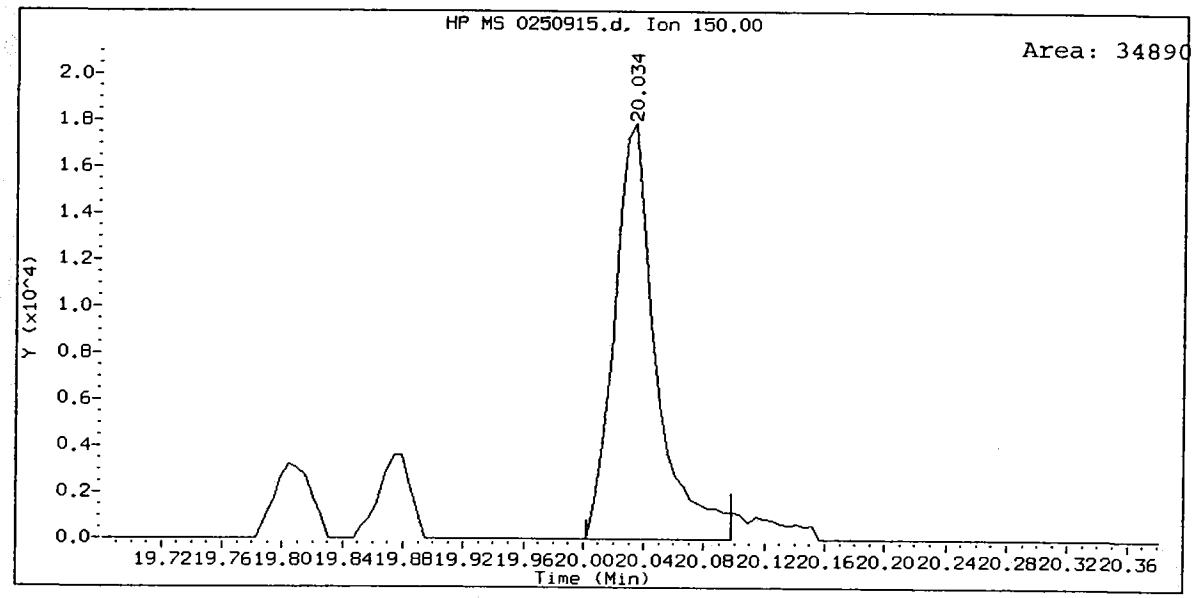




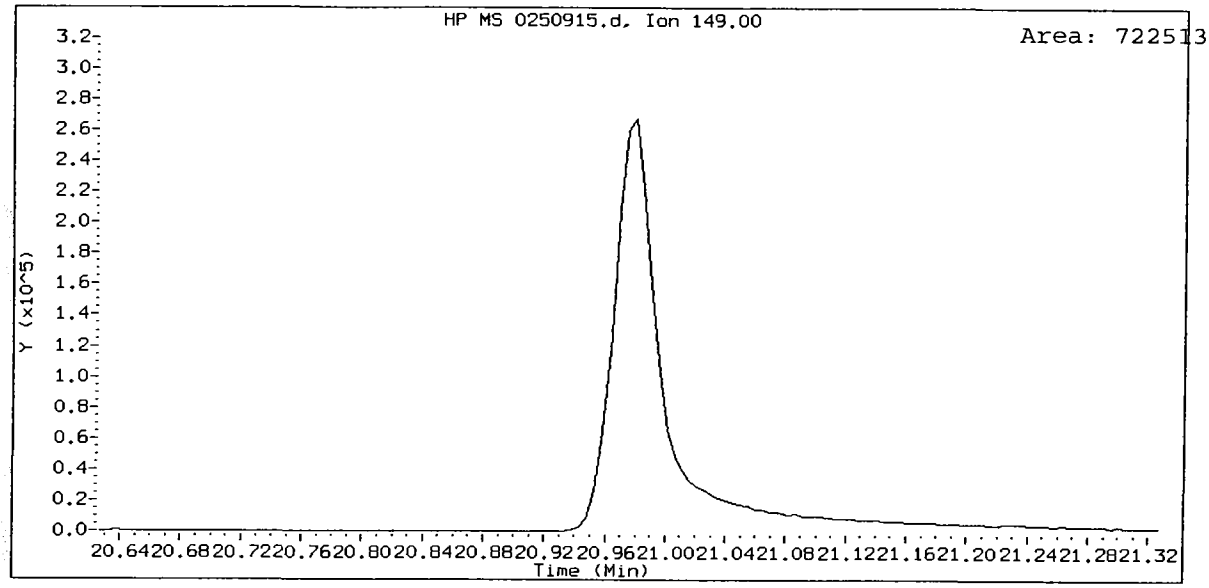
ABN 25, /chem1/nt6.i/20080915.b/0250915.d
bis(2-Ethylhexyl)phthalate Amount: 25.00

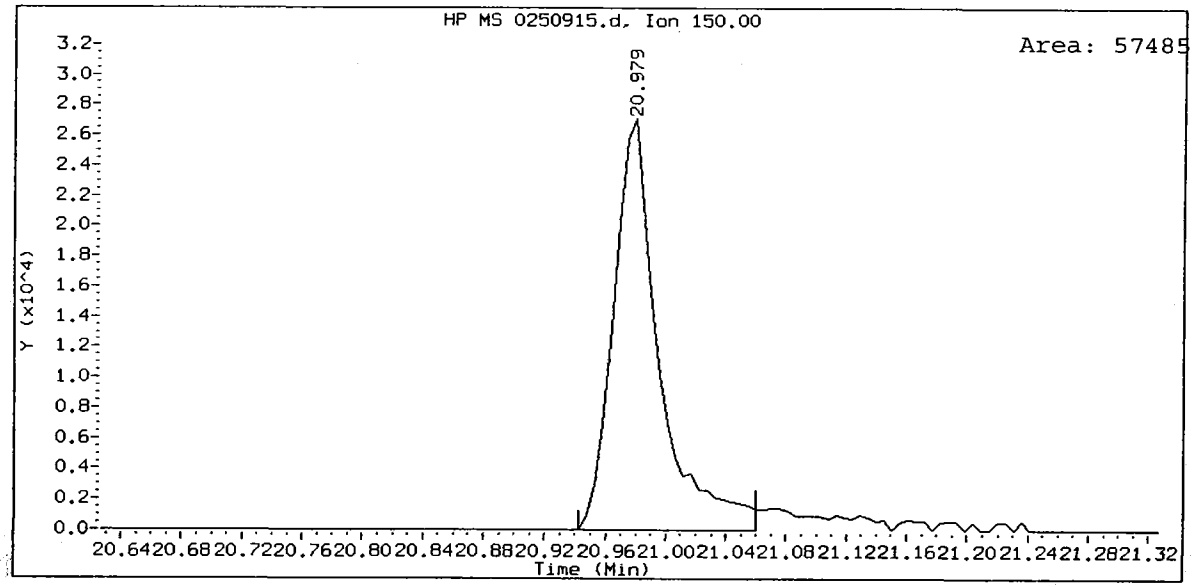


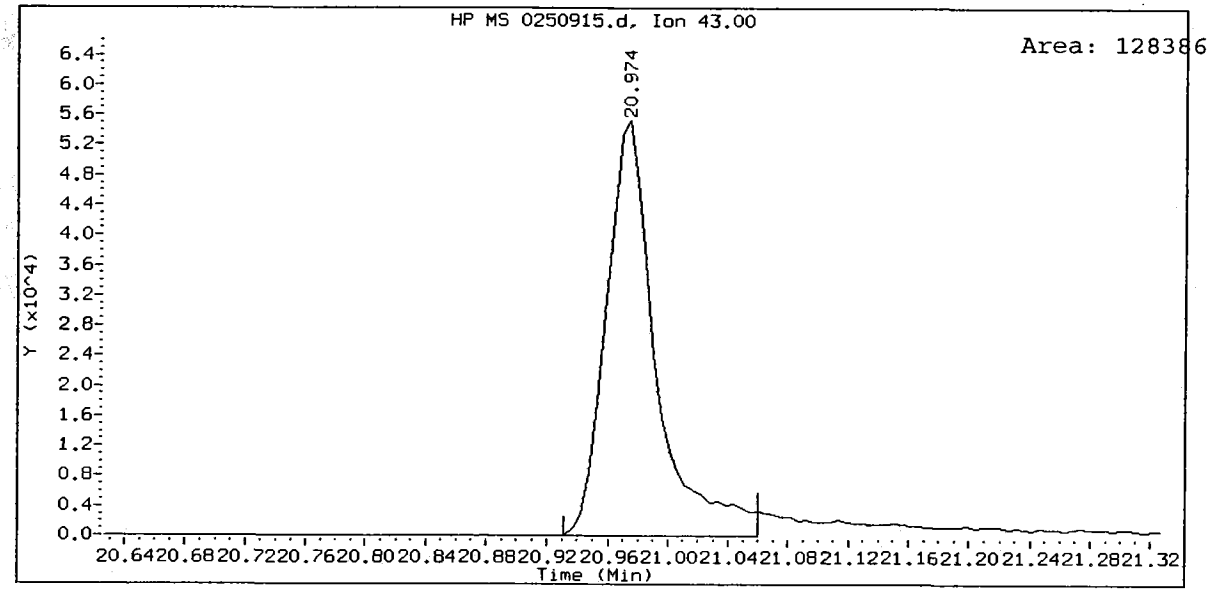




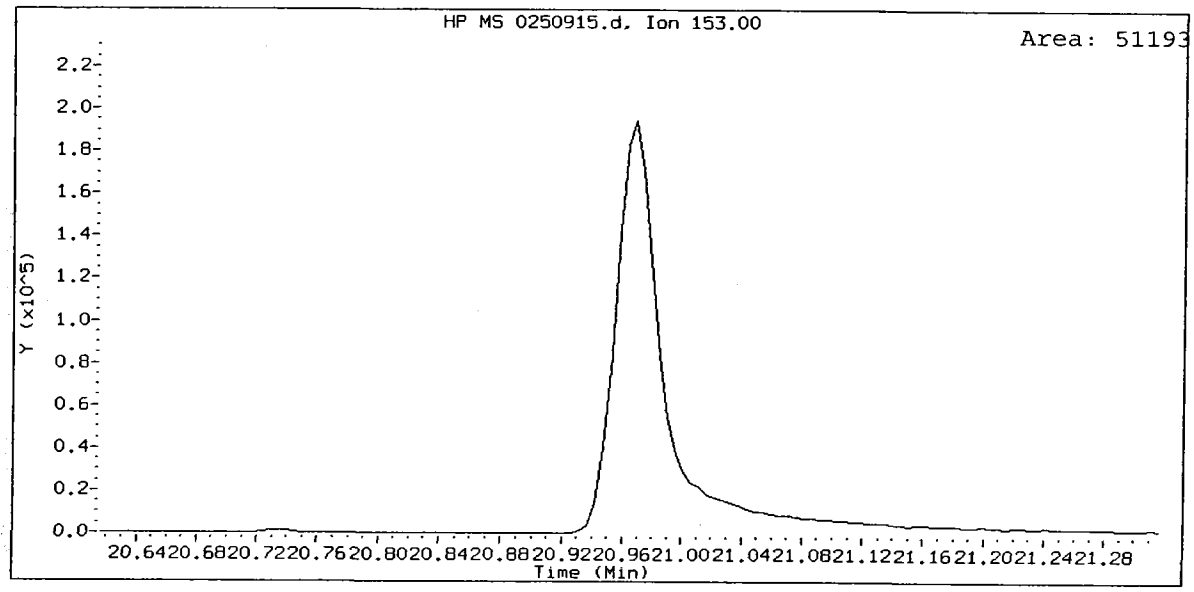
ABN 25, /chem1/nt6.i/20080915.b/0250915.d
Di-n-octylphthalate Amount: 25.00







ABN 25, /chem1/nt6.i/20080915.b/0250915.d
Di-n-octylphthalate-d4 Amount: 20.00



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem1/nt6.i/20080915.b/ddt.b/0250915.d ARI ID:
Method: /chem1/nt6.i/20080915.b/ddt.b/sw846ddt.m Misc:
Analysis Date: 15-SEP-2008 11:35 Instrument: nt6.i

COMPOUND	RT	AREA
Pentachlorophenol	15.311	73163
Benzidine	17.731	197752
4,4'-DDE	----	----
4,4'-DDD	18.656	3955
4,4'-DDT	19.136	124793

LJK 9/15/08

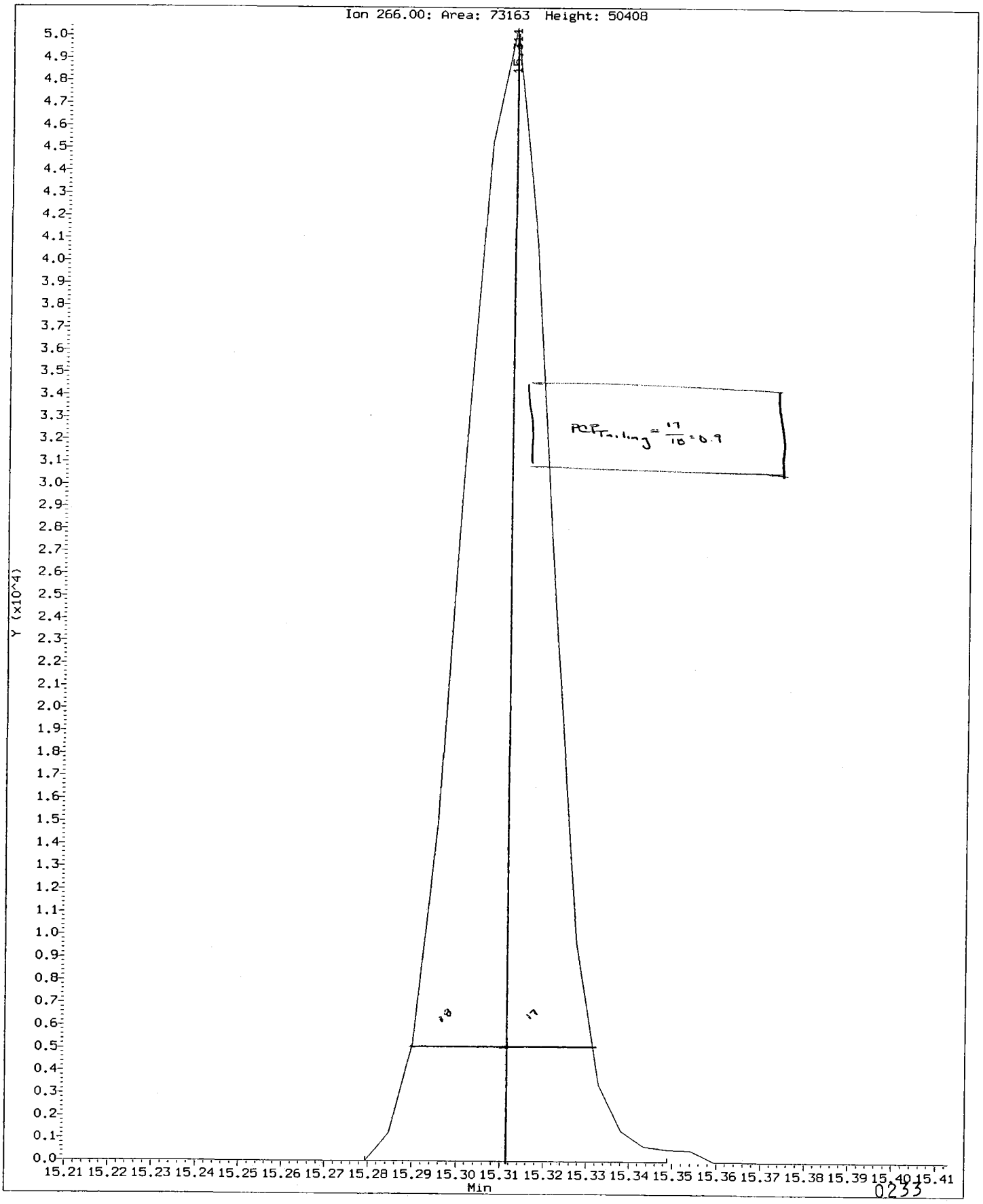
$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(0 + 3955) * 100}{(0 + 3955 + 124793)}$$

DDT Percent Breakdown = 3.1 %

Data File: /chem1/nt6.i/20080915.b/ddt.b/0250915.d
Injection Date: 15-SEP-2008 11:35
Instrument: nt6.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



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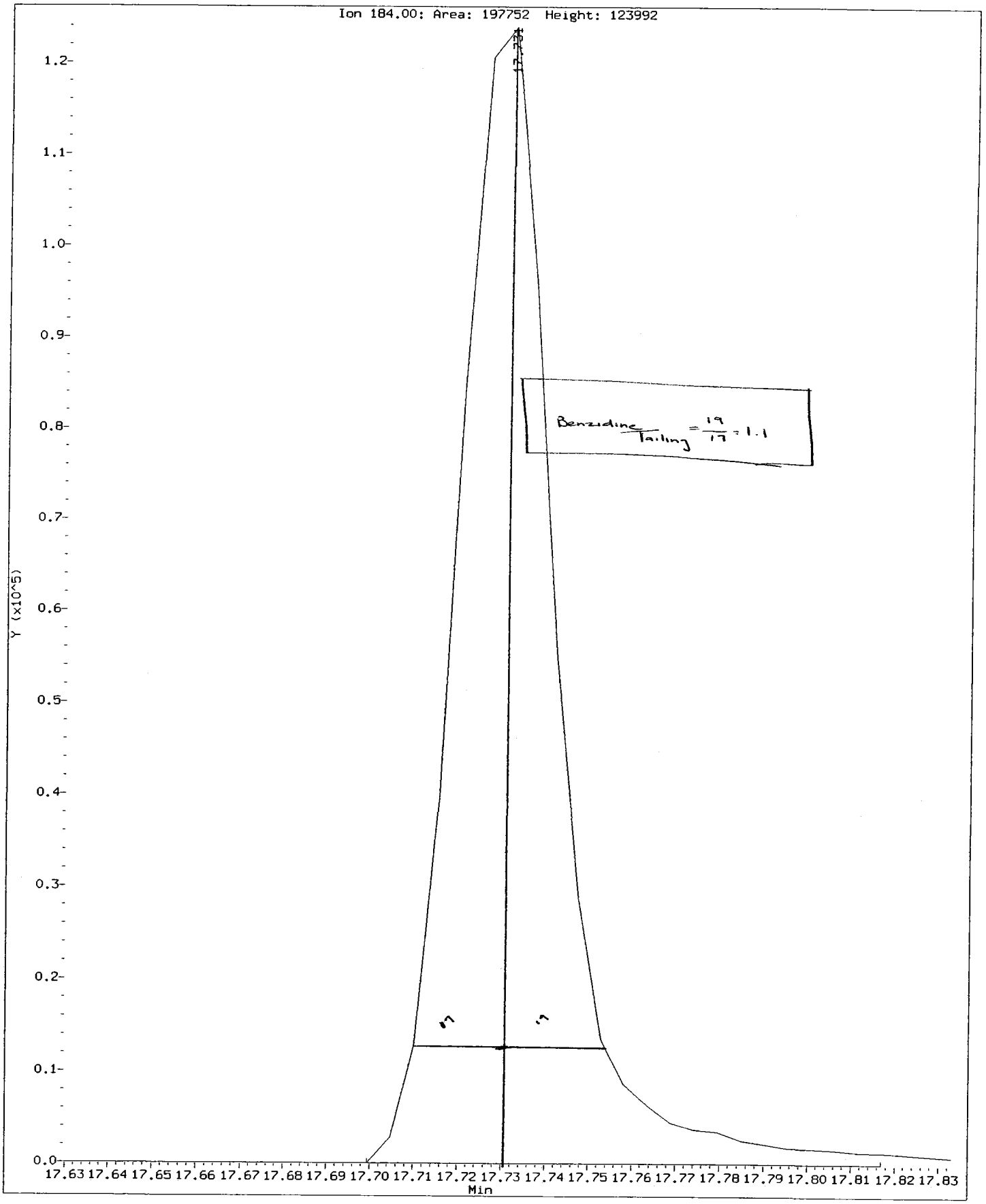
Injection Date: 15-SEP-2008 11:35
Instrument: nt6.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20080915.b/0400915.d
Lab Smp Id: ABN 40
Inj Date : 15-SEP-2008 13:20
Operator : LJR/VTS Inst ID: nt6.i

LJR 9/15/08

Smp Info : ABN 40
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20080915.b/SW846.m
Meth Date : 15-Sep-2008 16:18 jeff Quant Type: ISTD
Cal Date : 15-SEP-2008 13:20 Cal File: 0400915.d
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: GUAIACAL.sub
Target Version: 3.50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 137 d8-1,4-Dioxane	96	2.772	2.769	(0.339)	198295	40.0000	39.85
143 1,4-Dioxane	88	2.825	2.822	(0.345)	205678	40.0000	38.82
103 Pyridine	79	3.530	3.543	(0.432)	487861	40.0000	39.75
90 N-Nitrosodimethylamine	74	3.562	3.538	(0.436)	303294	40.0000	39.32
$ 1 2-Fluorophenol	112	6.190	6.188	(0.757)	374855	40.0000	39.77
91 Aniline	93	7.729	7.721	(0.945)	588025	40.0000	38.98
$ 2 Phenol-d5	99	7.734	7.721	(0.946)	486018	40.0000	39.92
3 Phenol	94	7.756	7.737	(0.948)	560941	40.0000	36.75
4 Bis(2-Chloroethyl)ether	93	7.847	7.839	(0.959)	434146	40.0000	37.98
$ 5 2-Chlorophenol-d4	132	7.868	7.865	(0.962)	297410	40.0000	40.09
6 2-Chlorophenol	128	7.895	7.887	(0.965)	358268	40.0000	37.47
179 n-Decane	57	8.007	8.004	(0.979)	574404	40.0000	37.56
7 1,3-Dichlorobenzene	146	8.114	8.111	(0.992)	374272	40.0000	37.17
* 8 1,4-Dichlorobenzene-d4	152	8.178	8.175	(1.000)	128133	20.0000	
9 1,4-Dichlorobenzene	146	8.204	8.197	(1.003)	366538	40.0000	36.94
11 Benzyl alcohol	108	8.461	8.448	(1.035)	304044	40.0000	39.05
$ 10 1,2-Dichlorobenzene-d4	152	8.477	8.474	(1.037)	193680	40.0000	40.55
12 1,2-Dichlorobenzene	146	8.498	8.496	(1.039)	341772	40.0000	36.78
13 2-Methylphenol	108	8.691	8.677	(1.063)	388584	40.0000	38.14
14 2,2'-oxybis(1-Chloropropane)	45	8.723	8.720	(1.067)	689190	40.0000	37.40
123 Acetophenone	105	8.878	8.870	(1.086)	509798	40.0000	37.57
15 4-Methylphenol	108	8.926	8.912	(1.091)	390724	40.0000	37.89
16 N-Nitroso-di-n-propylamine	70	8.947	8.928	(1.094)	316896	40.0000	38.98
17 Hexachloroethane	117	8.990	8.987	(1.099)	171519	40.0000	38.86
$ 18 Nitrobenzene-d5	82	9.113	9.105	(0.890)	440416	40.0000	39.64
106 Guaiacol	124	9.145	9.137	(1.118)	233145	40.0000	38.37
19 Nitrobenzene	77	9.145	9.137	(0.894)	435806	40.0000	37.13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	20 Isophorone	82	9.529	9.516	(0.931)	754916	40.0000	37.39
	21 2-Nitrophenol	139	9.663	9.655	(0.944)	196344	40.0000	39.22
	22 2,4-Dimethylphenol	107	9.764	9.756	(0.954)	378123	40.0000	37.71
	23 Bis(2-Chloroethoxy)methane	93	9.919	9.911	(0.969)	500088	40.0000	37.19
	25 2,4-Dichlorophenol	162	10.042	10.034	(0.981)	248152	40.0000	38.77
	24 Benzoic acid	105	10.047	9.943	(0.982)	687460	80.0000	77.10 (M)
	26 1,2,4-Trichlorobenzene	180	10.176	10.173	(0.994)	268276	40.0000	37.05
*	27 Naphthalene-d8	136	10.234	10.227	(1.000)	480910	20.0000	
	28 Naphthalene	128	10.267	10.259	(1.003)	939878	40.0000	36.54
	29 4-Chloroaniline	127	10.405	10.403	(1.017)	405923	40.0000	40.12
	30 Hexachlorobutadiene	225	10.582	10.584	(1.034)	142198	40.0000	37.36
	185 4-Chloroguaiacol	115	11.164	11.156	(1.365)	78755	20.0000	21.23
	31 4-Chloro-3-methylphenol	107	11.212	11.204	(1.096)	317485	40.0000	39.64
	32 2-Methylnaphthalene	141	11.394	11.386	(1.113)	477894	40.0000	37.10
	105 1-methylnaphthalene	141	11.565	11.562	(1.130)	480297	40.0000	36.55
	33 Hexachlorocyclopentadiene	237	11.773	11.770	(0.898)	145849	40.0000	40.60
	34 2,4,6-Trichlorophenol	196	11.907	11.899	(0.908)	168825	40.0000	39.45
	35 2,4,5-Trichlorophenol	196	11.960	11.952	(0.912)	176966	40.0000	39.52
$	36 2-Fluorobiphenyl	172	12.040	12.032	(0.918)	560546	40.0000	39.75
	37 2-Chloronaphthalene	162	12.179	12.171	(0.929)	526352	40.0000	37.24
	184 3,4-Dichloroguaiacol	192	12.254	12.251	(1.498)	95103	40.0000	40.95
	38 2-Nitroaniline	65	12.409	12.401	(0.946)	234531	40.0000	38.98
	39 Dimethylphthalate	163	12.788	12.780	(0.975)	559607	40.0000	37.54
	40 Acenaphthylene	152	12.857	12.855	(0.980)	804625	40.0000	37.86
	41 2,6-Dinitrotoluene	165	12.884	12.876	(0.982)	127184	40.0000	38.68
	107 4,5-Dichloroguaiacol	192	13.050	13.042	(0.995)	144587	40.0000	38.88
	182 4,6-Dichloroguaiacol	192	13.071	13.063	(1.598)	103995	40.0000	41.17 (M)
	43 3-Nitroaniline	138	13.098	13.085	(0.999)	136865	40.0000	39.37
*	42 Acenaphthene-d10	164	13.114	13.111	(1.000)	221964	20.0000	
	44 Acenaphthene	153	13.167	13.159	(1.004)	513034	40.0000	36.95
	45 2,4-Dinitrophenol	184	13.263	13.250	(1.011)	164924	80.0000	80.21
	133 Butylatedhydroxytoluene	205	13.285	13.282	(1.013)	344303	40.0000	38.62
	47 4-Nitrophenol	109	13.381	13.368	(1.020)	96195	40.0000	39.53
	46 Dibenzofuran	168	13.429	13.421	(1.024)	673421	40.0000	36.93
	168 Pentachlorobenzene	250	13.472	13.464	(1.027)	182720	40.0000	37.48
	48 2,4-Dinitrotoluene	165	13.509	13.501	(1.030)	173454	40.0000	39.05
	181 3,4,6-Trichloroguaiacol	211	13.808	13.800	(1.689)	85602	40.0000	42.22
	109 3,4,5-Trichloroguaiacol	213	13.926	13.918	(0.898)	92702	40.0000	41.95
	50 Diethylphthalate	149	13.953	13.939	(1.064)	574569	40.0000	37.62
	49 Fluorene	166	13.990	13.982	(1.067)	539868	40.0000	36.58
	51 4-Chlorophenyl-phenylether	204	14.011	14.003	(1.068)	233618	40.0000	36.75
	52 4-Nitroaniline	138	14.102	14.078	(1.075)	164588	40.0000	38.55
	53 4,6-Dinitro-2-methylphenol	198	14.172	14.158	(0.914)	198566	80.0000	79.25
	54 N-Nitrosodiphenylamine	169	14.220	14.206	(0.917)	294788	40.0000	38.25
	111 Azobenzene (1,2-DP-Hydrazine)	77	14.262	14.254	(1.088)	775610	40.0000	37.39
	115 Tributyl Phosphate	99	14.316	14.303	(0.923)	777241	40.0000	42.54
$	55 2,4,6-Tribromophenol	330	14.412	14.404	(1.099)	72115	40.0000	39.60

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
56	4-Bromophenyl-phenylether	248	14.797	14.794	(0.954)	141760	40.0000	38.40
108	4,5,6-Trichloroguaiacol	213	14.845	14.837	(1.132)	81284	40.0000	40.77
57	Hexachlorobenzene	284	15.021	15.013	(0.969)	140115	40.0000	36.40
58	Pentachlorophenol	266	15.315	15.307	(0.988)	102524	40.0000	39.85
180	n-Octadecane	57	15.406	15.408	(0.994)	570821	40.0000	39.17
110	Tetrachloroguaiacol	247	15.448	15.435	(0.997)	139979	80.0000	76.49
* 59	Phenanthrene-d10	188	15.502	15.499	(1.000)	313463	20.0000	
60	Phenanthrene	178	15.539	15.537	(1.002)	727532	40.0000	36.41
61	Anthracene	178	15.614	15.606	(1.007)	725340	40.0000	36.57
62	Carbazole	167	15.892	15.889	(1.025)	673059	40.0000	37.32
116	Dibutyl Phenyl Phosphate	175	16.047	16.044	(1.035)	379170	40.0000	43.79
63	Di-n-butylphthalate	149	16.608	16.605	(1.071)	896636	40.0000	39.83
64	Fluoranthene	202	17.489	17.481	(1.128)	704236	40.0000	37.55
93	Benzidine	184	17.729	17.727	(0.894)	230897	40.0000	33.68
117	Butyl Diphenyl Phosphate	94	17.745	17.743	(0.894)	181026	40.0000	40.61
65	Pyrene	202	17.847	17.839	(0.900)	727570	40.0000	34.17
$ 66	Terphenyl-d14	244	18.157	18.149	(0.915)	450186	40.0000	37.94
98	Retene	219	18.403	18.400	(0.928)	289491	40.0000	35.82
67	Butylbenzylphthalate	149	19.038	19.036	(0.960)	414137	40.0000	41.59
118	Triphenyl Phosphate	326	19.359	19.356	(0.976)	124753	40.0000	43.21
68	Benzo(a)anthracene	228	19.813	19.805	(0.999)	680508	40.0000	36.50
70	3,3'-Dichlorobenzidine	252	19.818	19.810	(0.999)	223153	40.0000	40.77
* 69	Chrysene-d12	240	19.840	19.832	(1.000)	279478	20.0000	
71	Chrysene	228	19.882	19.874	(1.002)	709011	40.0000	36.83
72	bis(2-Ethylhexyl)phthalate	149	20.032	20.029	(0.955)	642526	40.0000	42.97 (M)
* 134	Di-n-octylphthalate-d4	153	20.972	20.964	(1.000)	560095	20.0000	(M)
73	Di-n-octylphthalate	149	20.983	20.975	(1.000)	1216082	40.0000	39.54 (M)
74	Benzo(b)fluoranthene	252	21.480	21.466	(0.976)	850378	40.0000	37.49
75	Benzo(k)fluoranthene	252	21.517	21.498	(0.978)	827482	40.0000	35.61
76	Benzo(a)pyrene	252	21.934	21.920	(0.997)	783287	40.0000	37.25
* 77	Perylene-d12	264	22.003	22.001	(1.000)	361684	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	23.590	23.576	(1.072)	910683	40.0000	36.25
79	Dibenzo(a,h)anthracene	278	23.622	23.603	(1.074)	741288	40.0000	35.93
80	Benzo(g,h,i)perylene	276	24.044	24.015	(1.093)	851915	40.0000	36.29

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 0400915.d
Lab Smp Id: ABN 40
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20080915.b/SW846.m
Misc Info:

Calibration Date: 15-SEP-2008
Calibration Time: 11:35

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134449	67224	268898	128133	-4.70
27 Naphthalene-d8	498098	249049	996196	480910	-3.45
42 Acenaphthene-d10	240116	120058	480232	221964	-7.56
59 Phenanthrene-d10	337544	168772	675088	313463	-7.13
69 Chrysene-d12	261699	130850	523398	279478	6.79
134 Di-n-octylphthala	511931	255966	1023862	560095	9.41
77 Perylene-d12	338505	169252	677010	361684	6.85

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.17	7.67	8.67	8.18	0.04
27 Naphthalene-d8	10.23	9.73	10.73	10.23	0.03
42 Acenaphthene-d10	13.11	12.61	13.61	13.11	0.03
59 Phenanthrene-d10	15.50	15.00	16.00	15.50	0.02
69 Chrysene-d12	19.84	19.34	20.34	19.84	0.02
134 Di-n-octylphthala	20.97	20.47	21.47	20.97	0.02
77 Perylene-d12	22.00	21.50	22.50	22.00	0.02

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

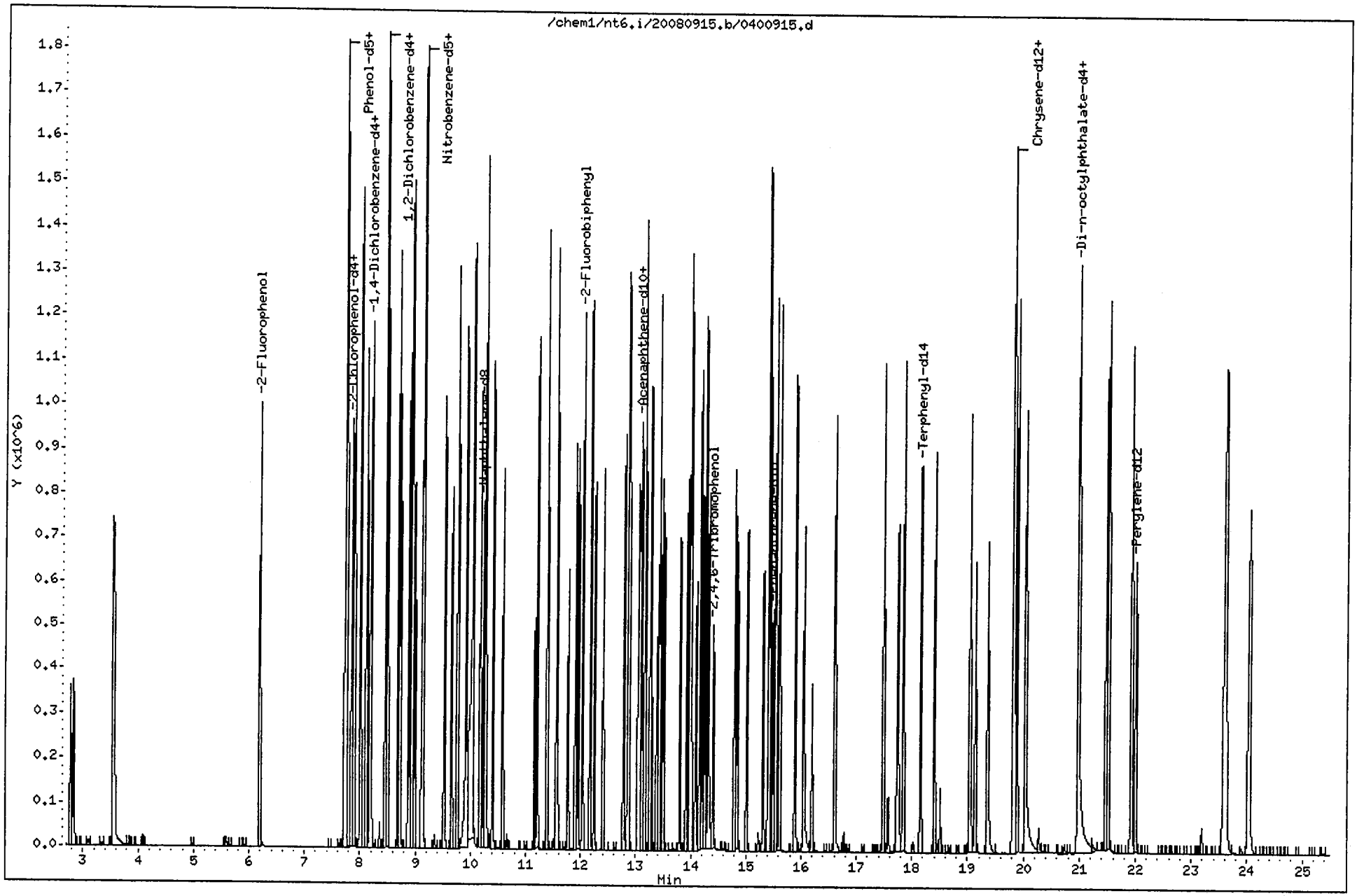
Data File: /chem1/nt6.i/20080915.b/0400915.d
Date : 15-SEP-2008 13:20
Client ID:
Sample Info: ABN 40

Instrument: nt6.i

Operator: LJR/VTS
Column diameter: 0.32

Column phase: ZB-5

0239



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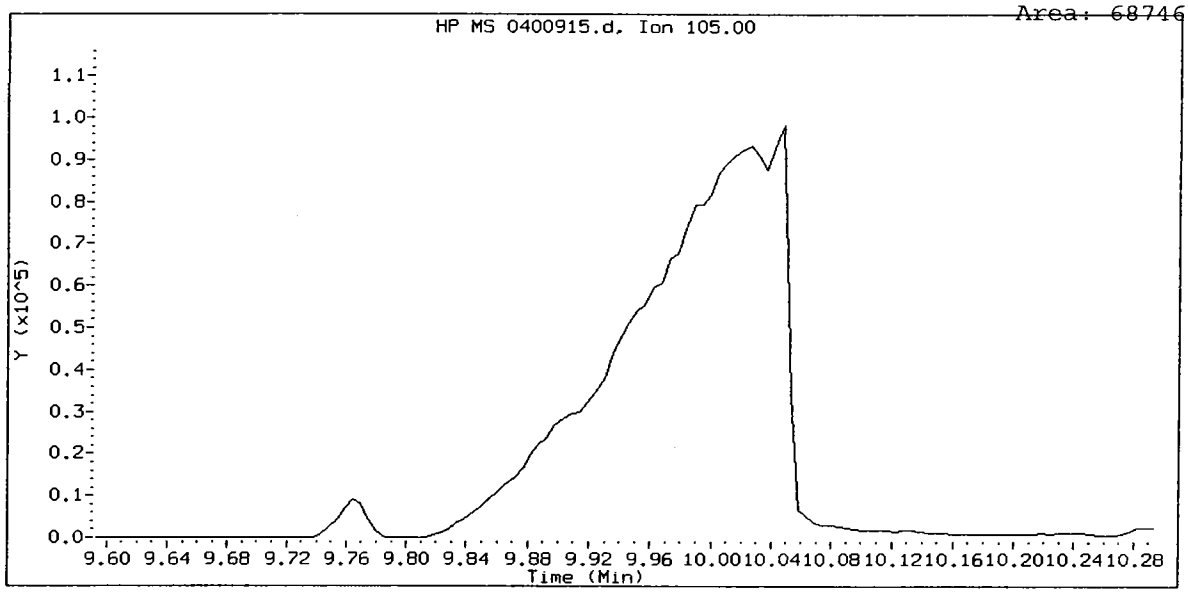
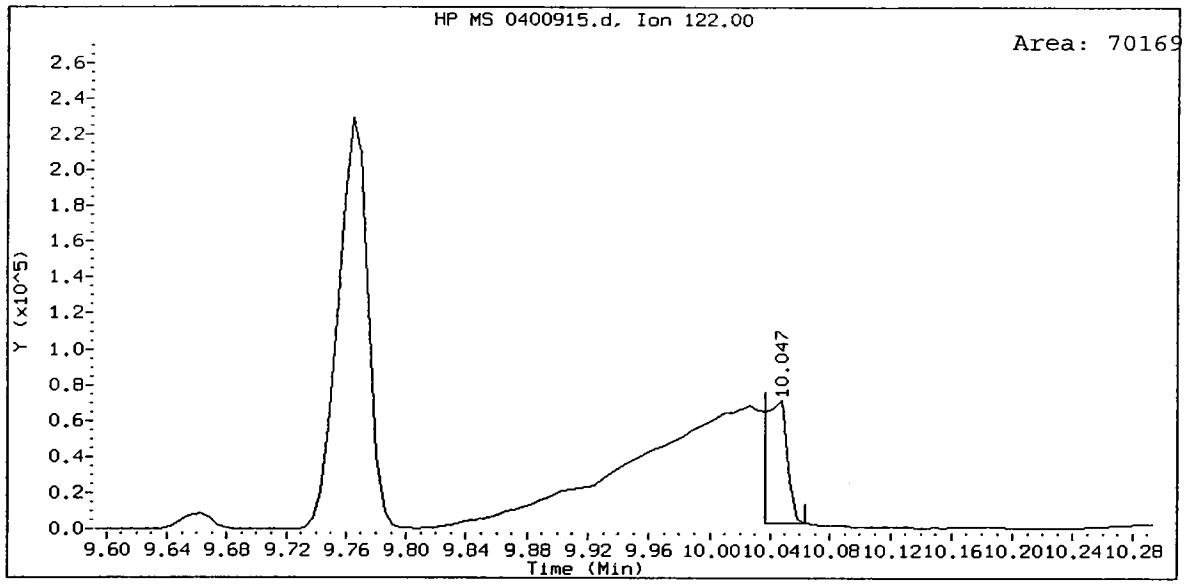
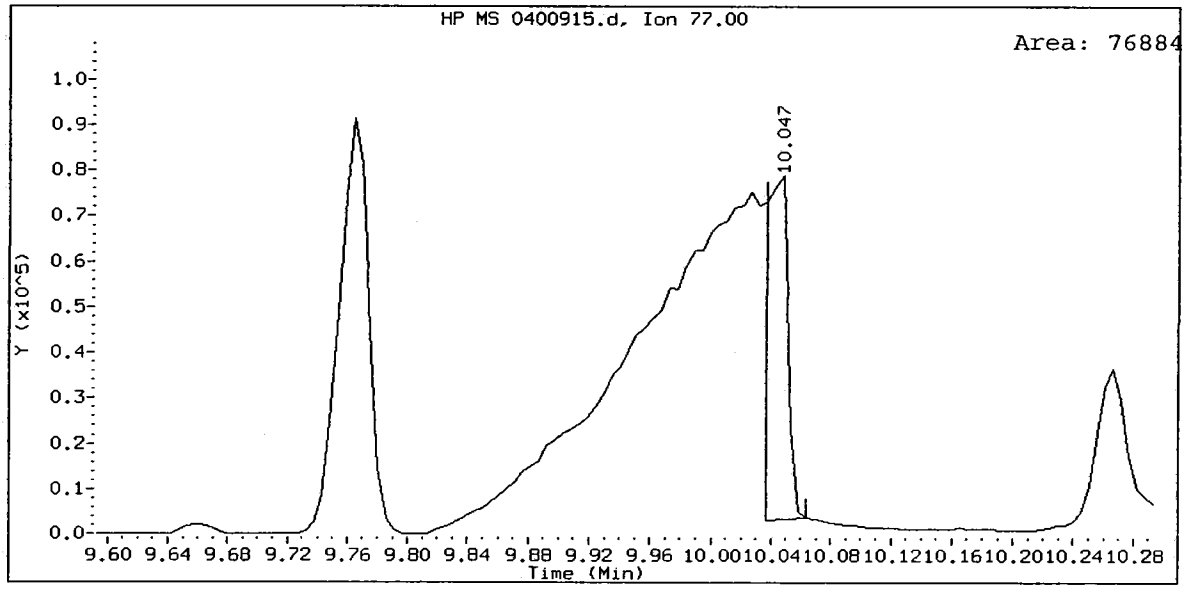
Benzoic acid Amount: 77.10







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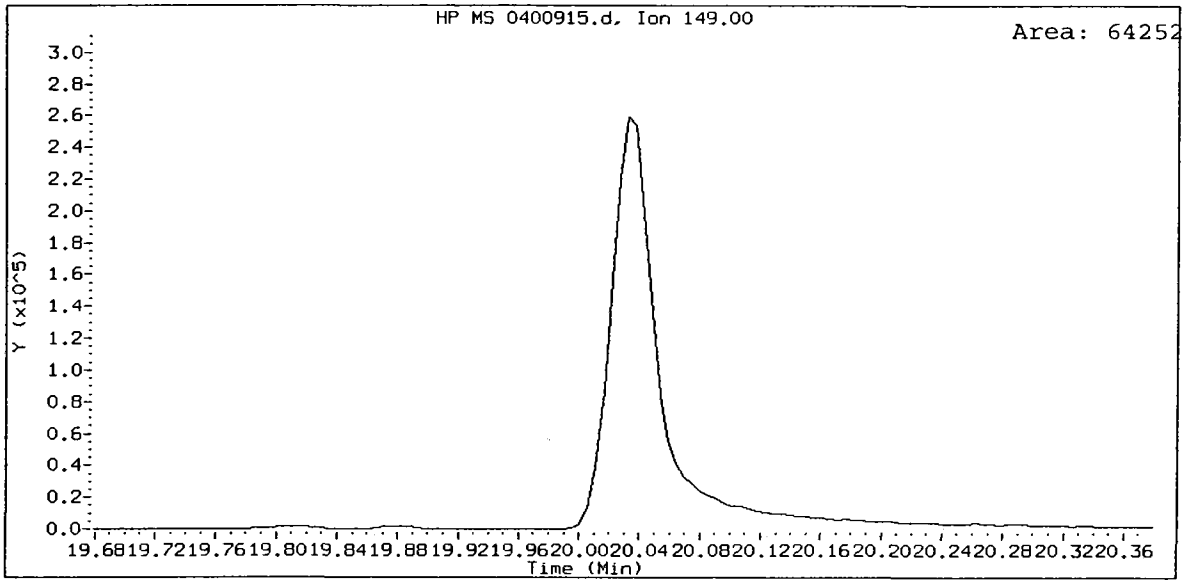
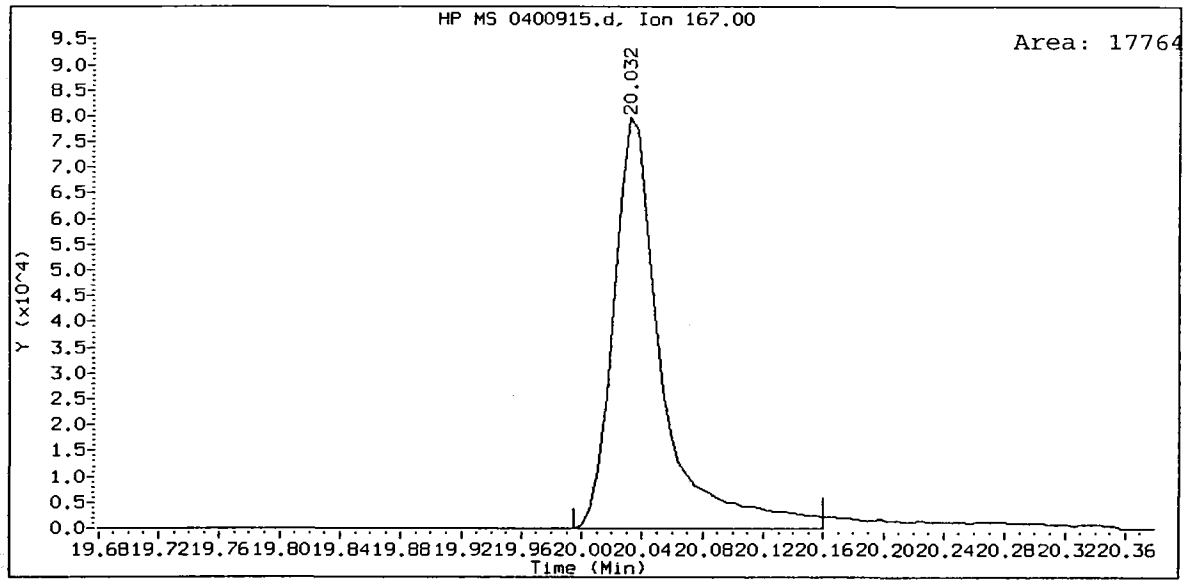
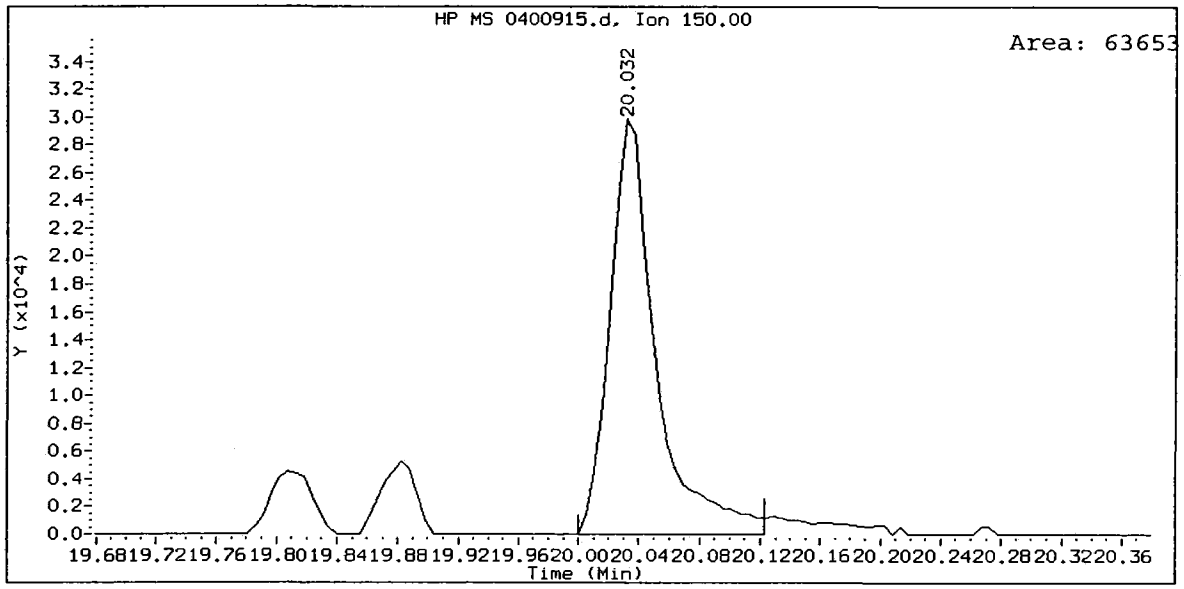
bis(2-Ethylhexyl)phthalate Amount: 42.97







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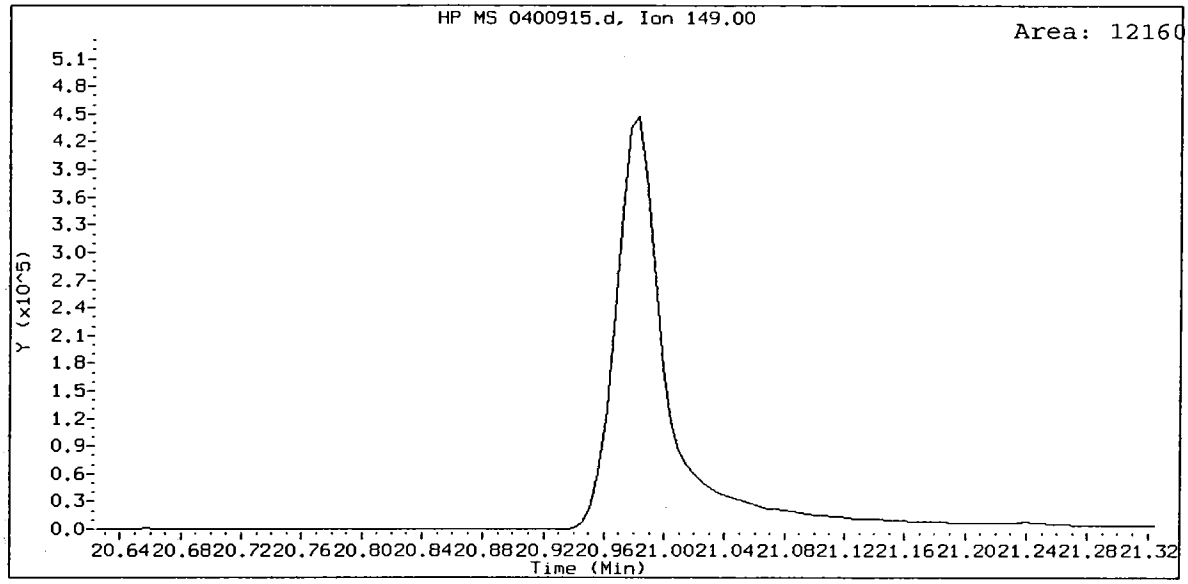
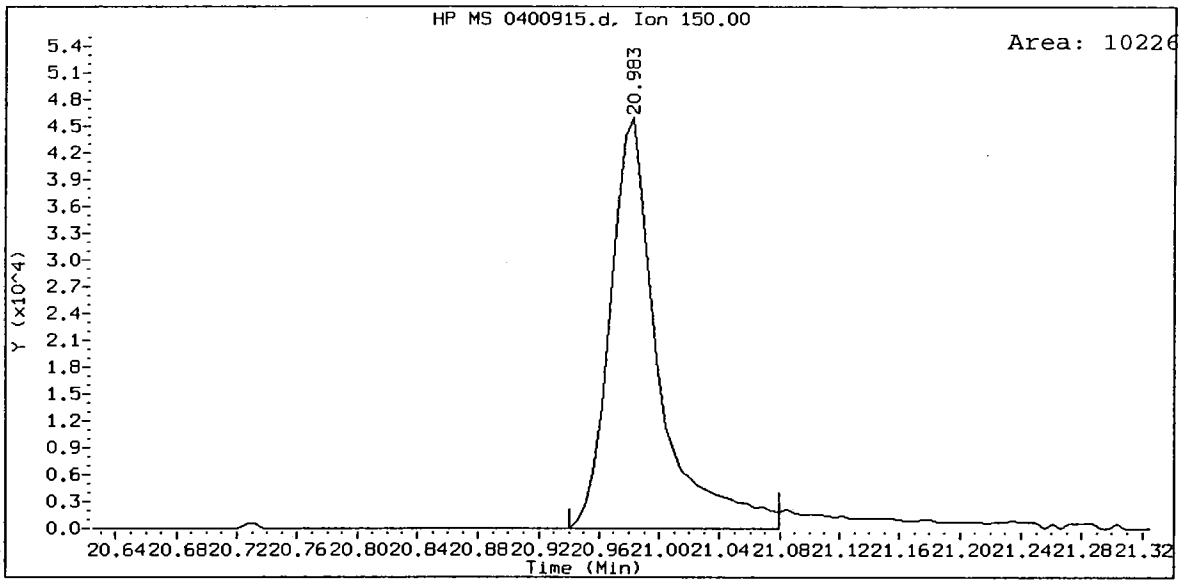
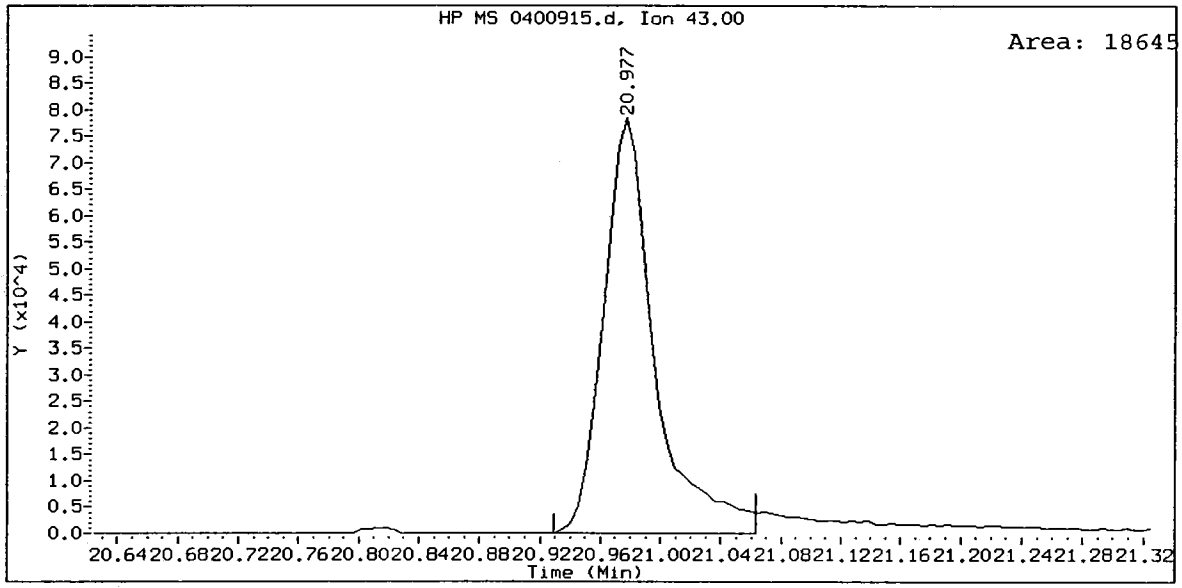
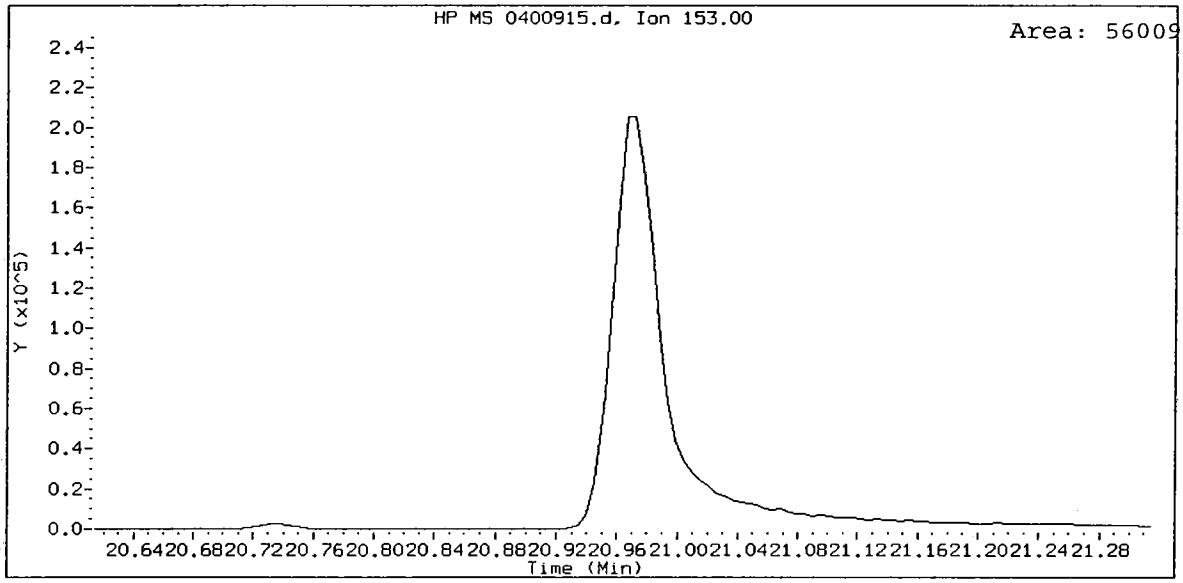
Di-n-octylphthalate Amount: 39.54



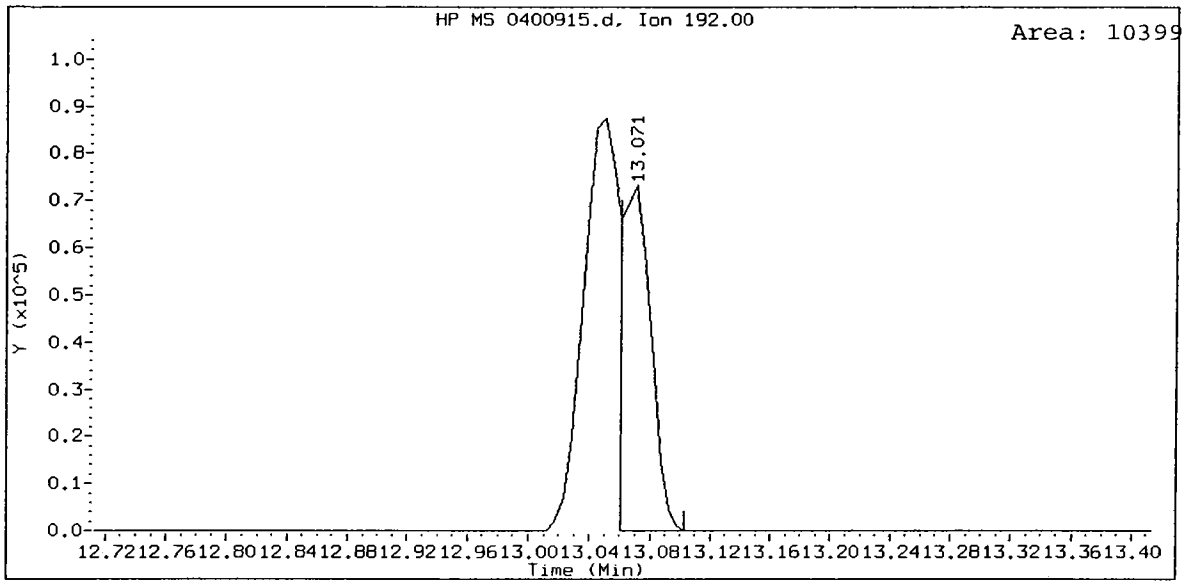


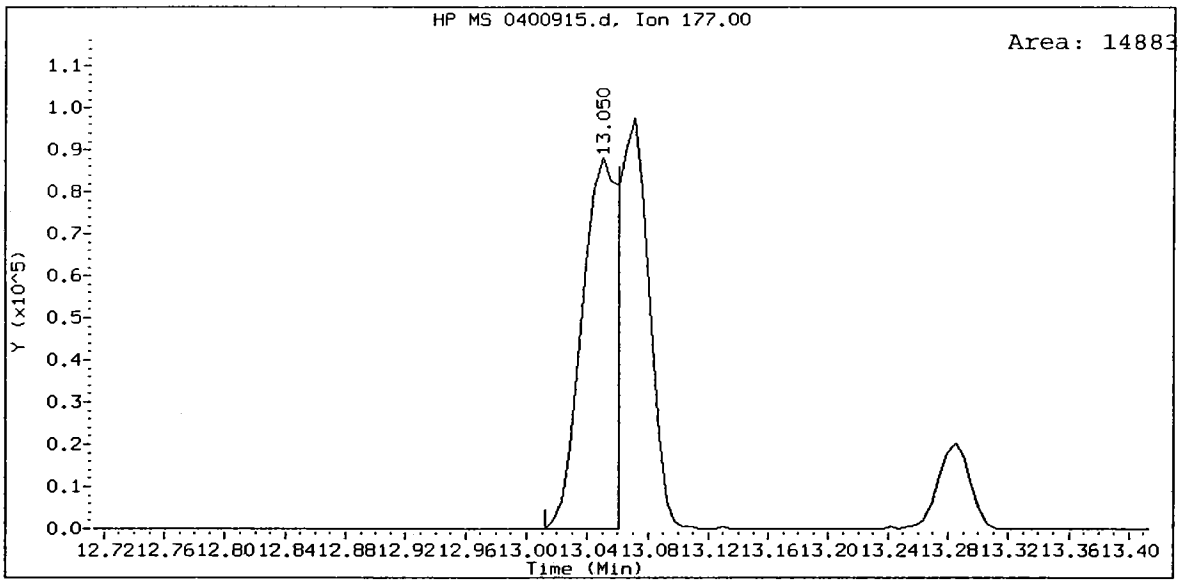


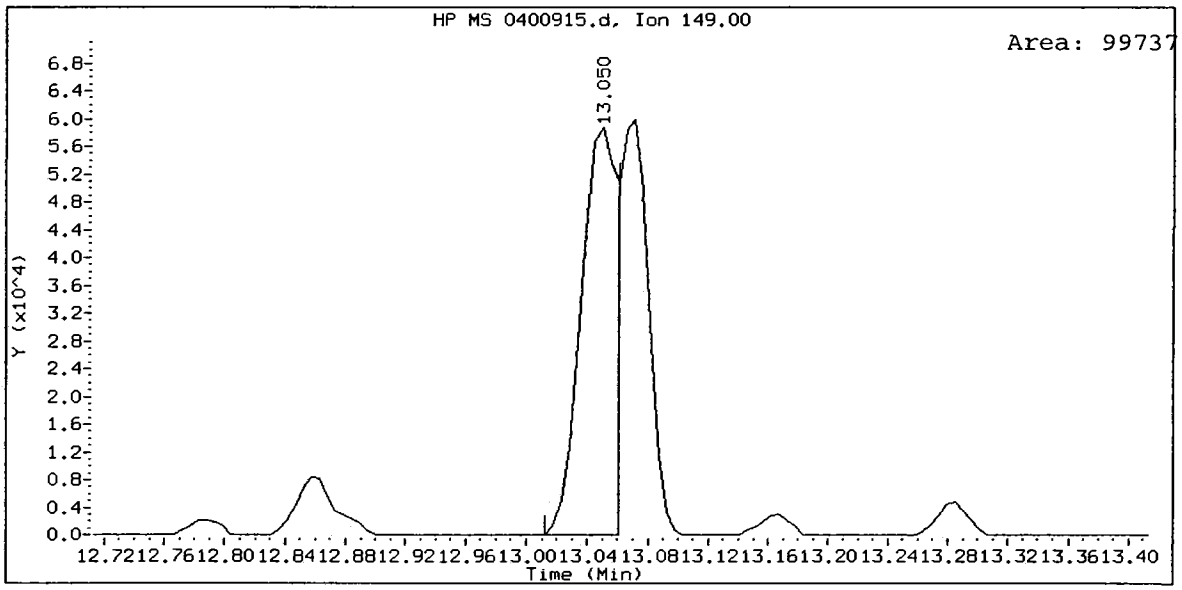
ABN 40, /chem1/nt6.i/20080915.b/0400915.d
Di-n-octylphthalate-d4 Amount: 20.00



ABN 40, /chem1/nt6.i/20080915.b/0400915.d
4,6-Dichloroguaiacol Amount: 41.17







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

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Lab Smp Id: ABN 80
Inj Date : 15-SEP-2008 12:10
Operator : LJR/VTS Inst ID: nt6.i LJR 9/15/08
Smp Info : ABN 80
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20080915.b/SW846.m
Meth Date : 15-Sep-2008 16:18 jeff Quant Type: ISTD
Cal Date : 15-SEP-2008 12:10 Cal File: 0800915.d
Als bottle: 2 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: GUAIACAL.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	137 d8-1,4-Dioxane	96	2.790	2.769	(0.341)	377987	80.0000	77.14
	143 1,4-Dioxane	88	2.843	2.822	(0.348)	394144	80.0000	74.96
	103 Pyridine	79	3.538	3.543	(0.432)	914257	80.0000	75.56
	90 N-Nitrosodimethylamine	74	3.596	3.538	(0.440)	600586	80.0000	78.56
$	1 2-Fluorophenol	112	6.198	6.188	(0.758)	698759	80.0000	75.22
	91 Aniline	93	7.737	7.721	(0.946)	1094782	80.0000	72.90
$	2 Phenol-d5	99	7.747	7.721	(0.947)	880718	80.0000	73.52
	3 Phenol	94	7.769	7.737	(0.950)	1008238	80.0000	65.42
	4 Bis(2-Chloroethyl)ether	93	7.859	7.839	(0.961)	764915	80.0000	66.97
$	5 2-Chlorophenol-d4	132	7.876	7.865	(0.963)	533009	80.0000	65.60
	6 2-Chlorophenol	128	7.902	7.887	(0.966)	652189	80.0000	67.97
	179 n-Decane	57	8.014	8.004	(0.980)	1058483	80.0000	69.02
	7 1,3-Dichlorobenzene	146	8.121	8.111	(0.993)	677605	80.0000	66.90
*	8 1,4-Dichlorobenzene-d4	152	8.180	8.175	(1.000)	125935	20.0000	
	9 1,4-Dichlorobenzene	146	8.207	8.197	(1.003)	657056	80.0000	65.70
	11 Benzyl alcohol	108	8.474	8.448	(1.036)	518783	80.0000	67.25
$	10 1,2-Dichlorobenzene-d4	152	8.485	8.474	(1.037)	323995	80.0000	60.09
	12 1,2-Dichlorobenzene	146	8.506	8.496	(1.040)	594605	80.0000	63.40
	13 2-Methylphenol	108	8.704	8.677	(1.064)	717769	80.0000	70.60
	14 2,2'-oxybis(1-Chloropropane)	45	8.730	8.720	(1.067)	1249492	80.0000	67.54
	123 Acetophenone	105	8.896	8.870	(1.087)	963383	80.0000	70.81
	15 4-Methylphenol	108	8.939	8.912	(1.093)	702394	80.0000	68.11
	16 N-Nitroso-di-n-propylamine	70	8.965	8.928	(1.096)	595447	80.0000	73.90
	17 Hexachloroethane	117	8.992	8.987	(1.099)	305708	80.0000	69.82
$	18 Nitrobenzene-d5	82	9.126	9.105	(0.891)	837693	80.0000	75.72
	106 Guaiacol	124	9.152	9.137	(1.119)	407018	80.0000	67.24
	19 Nitrobenzene	77	9.158	9.137	(0.895)	785988	80.0000	65.98

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
	20 Isophorone	82	9.548	9.516	(0.933)	1489109	80.0000	72.81
	21 2-Nitrophenol	139	9.670	9.655	(0.945)	378186	80.0000	75.48
	22 2,4-Dimethylphenol	107	9.777	9.756	(0.955)	707614	80.0000	69.85
	23 Bis(2-Chloroethoxy)methane	93	9.932	9.911	(0.970)	923582	80.0000	67.69
	25 2,4-Dichlorophenol	162	10.050	10.034	(0.982)	464777	80.0000	72.15
	24 Benzoic acid	105	10.135	9.943	(0.990)	1443682	160.000	160.4 (M)
	26 1,2,4-Trichlorobenzene	180	10.183	10.173	(0.995)	483621	80.0000	65.76
*	27 Naphthalene-d8	136	10.237	10.227	(1.000)	476741	20.0000	
	28 Naphthalene	128	10.274	10.259	(1.004)	1652359	80.0000	62.99
	29 4-Chloroaniline	127	10.413	10.403	(1.017)	708284	80.0000	70.72
	30 Hexachlorobutadiene	225	10.589	10.584	(1.034)	255007	80.0000	66.14
	185 4-Chloroguaiacol	115	11.166	11.156	(1.365)	153691	40.0000	43.03
	31 4-Chloro-3-methylphenol	107	11.220	11.204	(1.096)	584747	80.0000	73.32
	32 2-Methylnaphthalene	141	11.401	11.386	(1.114)	834293	80.0000	63.79
	105 1-methylnaphthalene	141	11.572	11.562	(1.130)	859888	80.0000	64.17
	33 Hexachlorocyclopentadiene	237	11.775	11.770	(0.897)	272667	80.0000	81.14
	34 2,4,6-Trichlorophenol	196	11.909	11.899	(0.908)	312641	80.0000	76.97
	35 2,4,5-Trichlorophenol	196	11.968	11.952	(0.912)	324999	80.0000	76.54
$	36 2-Fluorobiphenyl	172	12.048	12.032	(0.918)	1014458	80.0000	76.08
	37 2-Chloronaphthalene	162	12.187	12.171	(0.929)	938207	80.0000	68.85
	184 3,4-Dichloroguaiacol	192	12.261	12.251	(1.499)	180204	80.0000	79.58
	38 2-Nitroaniline	65	12.422	12.401	(0.947)	462403	80.0000	80.50
	39 Dimethylphthalate	163	12.806	12.780	(0.976)	1071409	80.0000	74.71
	40 Acenaphthylene	152	12.865	12.855	(0.980)	1439433	80.0000	70.60
	41 2,6-Dinitrotoluene	165	12.892	12.876	(0.982)	252863	80.0000	80.26
	107 4,5-Dichloroguaiacol	192	13.063	13.042	(0.996)	298135	80.0000	84.25
	182 4,6-Dichloroguaiacol	192	13.079	13.063	(1.599)	166063	80.0000	67.55 (M)
	43 3-Nitroaniline	138	13.111	13.085	(0.999)	227885	80.0000	69.00
*	42 Acenaphthene-d10	164	13.121	13.111	(1.000)	209233	20.0000	
	44 Acenaphthene	153	13.175	13.159	(1.004)	932847	80.0000	69.52
	45 2,4-Dinitrophenol	184	13.276	13.250	(1.012)	307956	160.000	159.1
	133 Butylatedhydroxytoluene	205	13.292	13.282	(1.013)	568296	80.0000	66.84
	47 4-Nitrophenol	109	13.394	13.368	(1.021)	182616	80.0000	79.14
	46 Dibenzofuran	168	13.437	13.421	(1.024)	1175949	80.0000	66.71
	168 Pentachlorobenzene	250	13.479	13.464	(1.027)	328133	80.0000	69.94
	48 2,4-Dinitrotoluene	165	13.527	13.501	(1.031)	341088	80.0000	80.49
	181 3,4,6-Trichloroguaiacol	211	13.816	13.800	(1.689)	161793	80.0000	82.71
	109 3,4,5-Trichloroguaiacol	213	13.934	13.918	(0.898)	170382	80.0000	78.69
	50 Diethylphthalate	149	13.960	13.939	(1.064)	1059632	80.0000	72.17
	49 Fluorene	166	13.998	13.982	(1.067)	927656	80.0000	64.83
	51 4-Chlorophenyl-phenylether	204	14.019	14.003	(1.068)	402521	80.0000	65.40
	52 4-Nitroaniline	138	14.126	14.078	(1.077)	331210	80.0000	80.84
	53 4,6-Dinitro-2-methylphenol	198	14.195	14.158	(0.915)	388968	160.000	155.2
	54 N-Nitrosodiphenylamine	169	14.233	14.206	(0.918)	554075	80.0000	71.15
	111 Azobenzene (1,2-DP-Hydrazine)	77	14.275	14.254	(1.088)	1439793	80.0000	72.05
	115 Tributyl Phosphate	99	14.339	14.303	(0.925)	1496351	80.0000	84.01
$	55 2,4,6-Tribromophenol	330	14.420	14.404	(1.099)	135256	80.0000	78.41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	56 4-Bromophenyl-phenylether	248	14.804	14.794	(0.955)	257236	80.0000	69.06
	108 4,5,6-Trichloroguaiacol	213	14.852	14.837	(1.132)	155645	80.0000	83.36
	57 Hexachlorobenzene	284	15.029	15.013	(0.969)	256863	80.0000	65.07
	58 Pentachlorophenol	266	15.322	15.307	(0.988)	194104	80.0000	75.63
	180 n-Octadecane	57	15.413	15.408	(0.994)	1039798	80.0000	71.16
	110 Tetrachloroguaiacol	247	15.461	15.435	(0.997)	255093	160.000	138.0
*	59 Phenanthrene-d10	188	15.509	15.499	(1.000)	312154	20.0000	
	60 Phenanthrene	178	15.552	15.537	(1.003)	1320775	80.0000	64.44
	61 Anthracene	178	15.627	15.606	(1.008)	1312255	80.0000	64.58
	62 Carbazole	167	15.905	15.889	(1.025)	1240538	80.0000	67.56
	116 Dibutyl Phenyl Phosphate	175	16.054	16.044	(1.035)	717587	80.0000	85.95
	63 Di-n-butylphthalate	149	16.615	16.605	(1.071)	1607479	80.0000	71.61
	64 Fluoranthene	202	17.497	17.481	(1.128)	1244410	80.0000	65.30
	93 Benzidine	184	17.737	17.727	(0.894)	448567	80.0000	67.94
	117 Butyl Diphenyl Phosphate	94	17.753	17.743	(0.894)	322071	80.0000	81.34
	65 Pyrene	202	17.855	17.839	(0.900)	1275077	80.0000	63.97
$	66 Terphenyl-d14	244	18.159	18.149	(0.915)	778413	80.0000	64.77
	98 Retene	219	18.410	18.400	(0.928)	514031	80.0000	68.86
	67 Butylbenzylphthalate	149	19.046	19.036	(0.960)	713236	80.0000	81.32
	118 Triphenyl Phosphate	326	19.366	19.356	(0.976)	218309	80.0000	87.03
	68 Benzo(a)anthracene	228	19.821	19.805	(0.999)	1138185	80.0000	66.46
	70 3,3'-Dichlorobenzidine	252	19.826	19.810	(0.999)	326586	80.0000	67.49
*	69 Chrysene-d12	240	19.847	19.832	(1.000)	249496	20.0000	
	71 Chrysene	228	19.895	19.874	(1.002)	1200115	80.0000	68.04
	72 bis(2-Ethylhexyl)phthalate	149	20.040	20.029	(0.955)	1101939	80.0000	89.43 (M)
*	134 Di-n-octylphthalate-d4	153	20.974	20.964	(1.000)	473284	20.0000	(M)
	73 Di-n-octylphthalate	149	20.985	20.975	(1.000)	2078830	80.0000	79.68 (M)
	74 Benzo(b)fluoranthene	252	21.493	21.466	(0.976)	1473182	80.0000	67.00
	75 Benzo(k)fluoranthene	252	21.535	21.498	(0.978)	1387133	80.0000	60.65 (M)
	76 Benzo(a)pyrene	252	21.947	21.920	(0.997)	1360306	80.0000	66.60
*	77 Perylene-d12	264	22.011	22.001	(1.000)	343485	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	23.613	23.576	(1.073)	1632547	80.0000	66.36
	79 Dibenzo(a,h)anthracene	278	23.651	23.603	(1.075)	1275733	80.0000	62.98
	80 Benzo(g,h,i)perylene	276	24.078	24.015	(1.094)	1538817	80.0000	66.94

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: 0800915.d
Lab Smp Id: ABN 80
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20080915.b/SW846.m
Misc Info:

Calibration Date: 15-SEP-2008
Calibration Time: 11:35

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134449	67224	268898	125935	-6.33
27 Naphthalene-d8	498098	249049	996196	476741	-4.29
42 Acenaphthene-d10	240116	120058	480232	209233	-12.86
59 Phenanthrene-d10	337544	168772	675088	312154	-7.52
69 Chrysene-d12	261699	130850	523398	249496	-4.66
134 Di-n-octylphthala	511931	255966	1023862	473284	-7.55
77 Perylene-d12	338505	169252	677010	343485	1.47

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.17	7.67	8.67	8.18	0.07
27 Naphthalene-d8	10.23	9.73	10.73	10.24	0.06
42 Acenaphthene-d10	13.11	12.61	13.61	13.12	0.08
59 Phenanthrene-d10	15.50	15.00	16.00	15.51	0.07
69 Chrysene-d12	19.84	19.34	20.34	19.85	0.06
134 Di-n-octylphthala	20.97	20.47	21.47	20.97	0.03
77 Perylene-d12	22.00	21.50	22.50	22.01	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

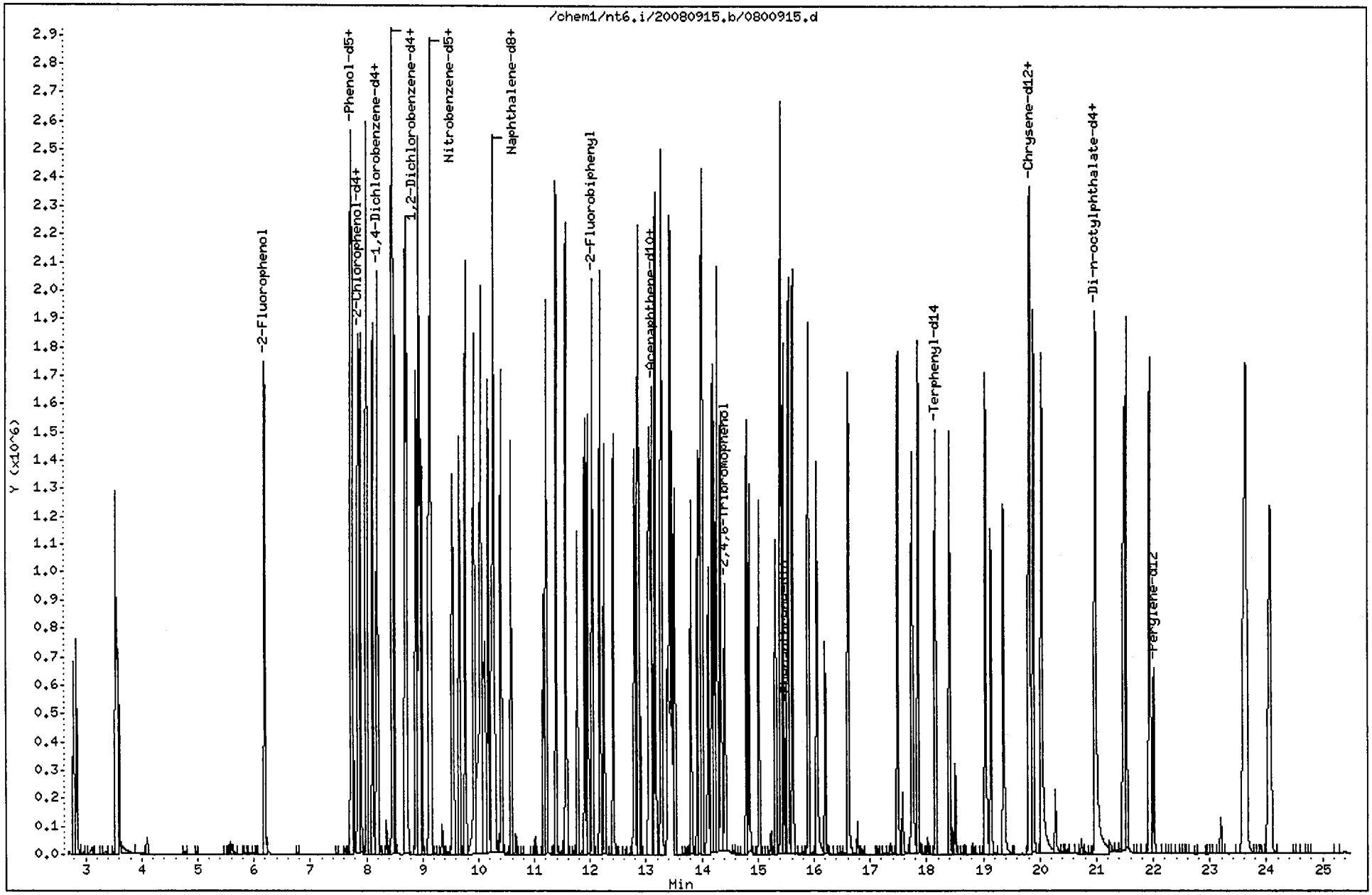
Data File: /chem1/nt6.i/20080915.b/0800915.d
Date : 15-SEP-2008 12:10
Client ID:
Sample Info: ABN 80

Instrument: nt6.i

Operator: LJR/VTS
Column diameter: 0.32

Column phase: ZB-5

0249



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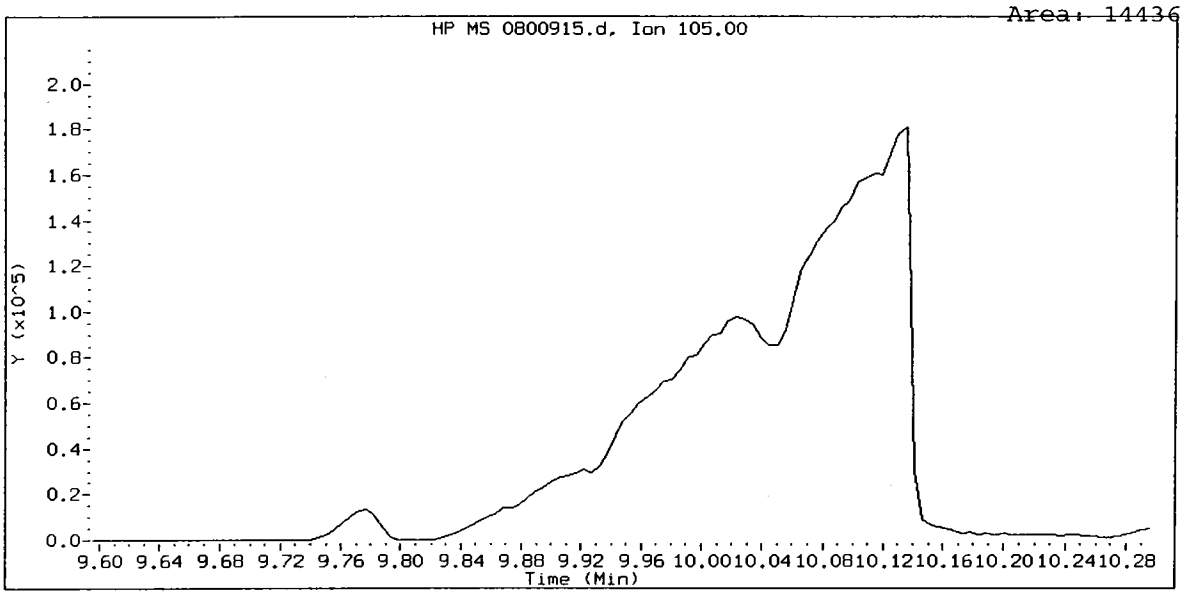
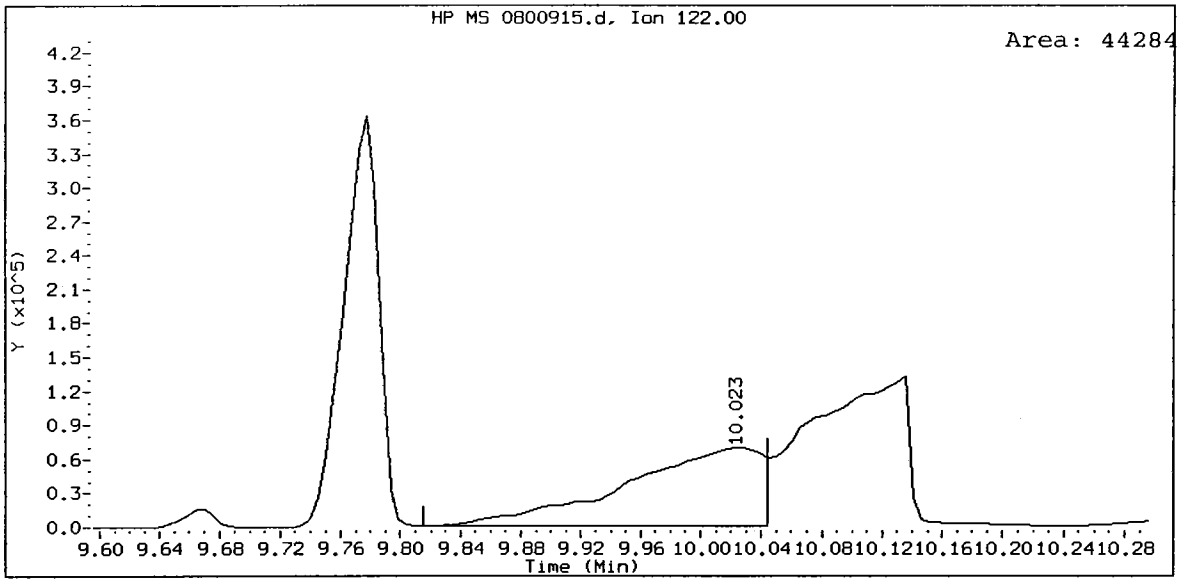
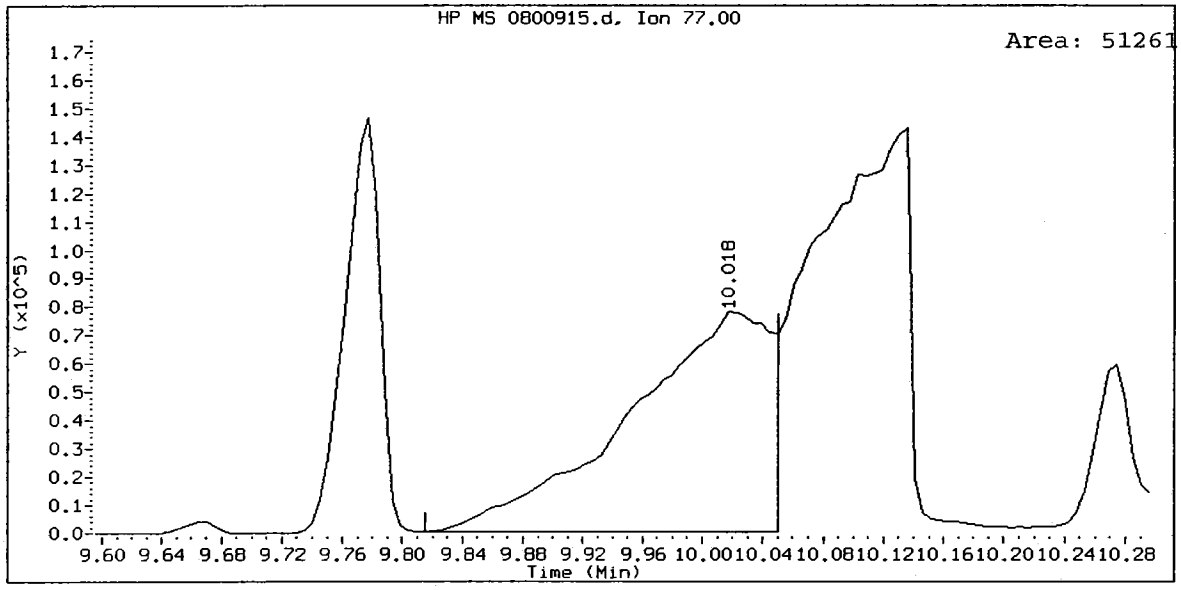
Benzoic acid Amount: 160.41







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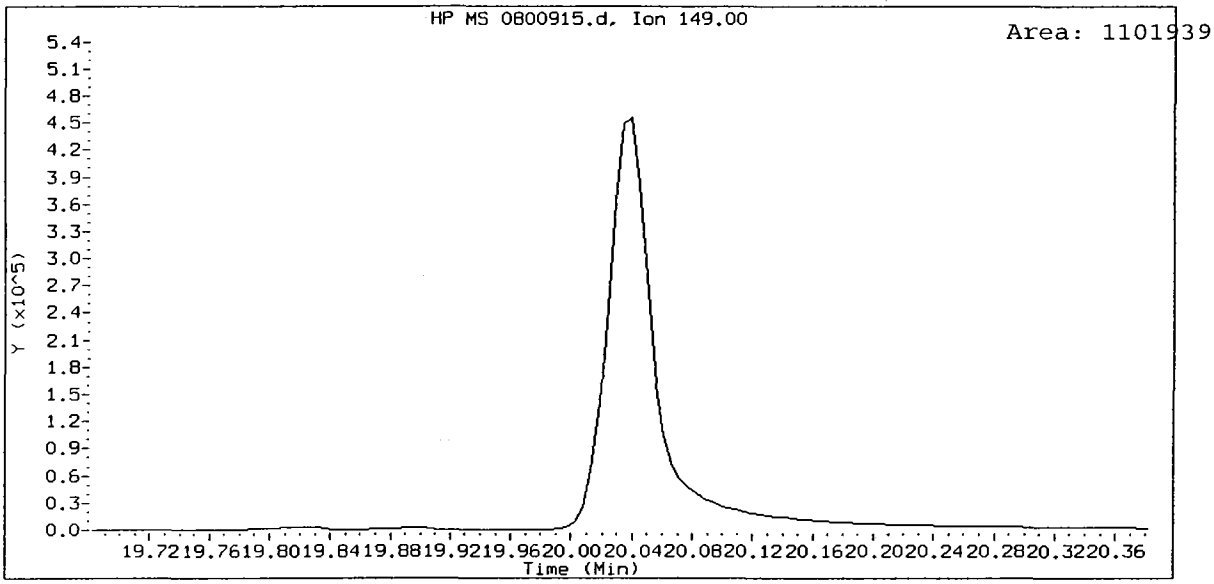
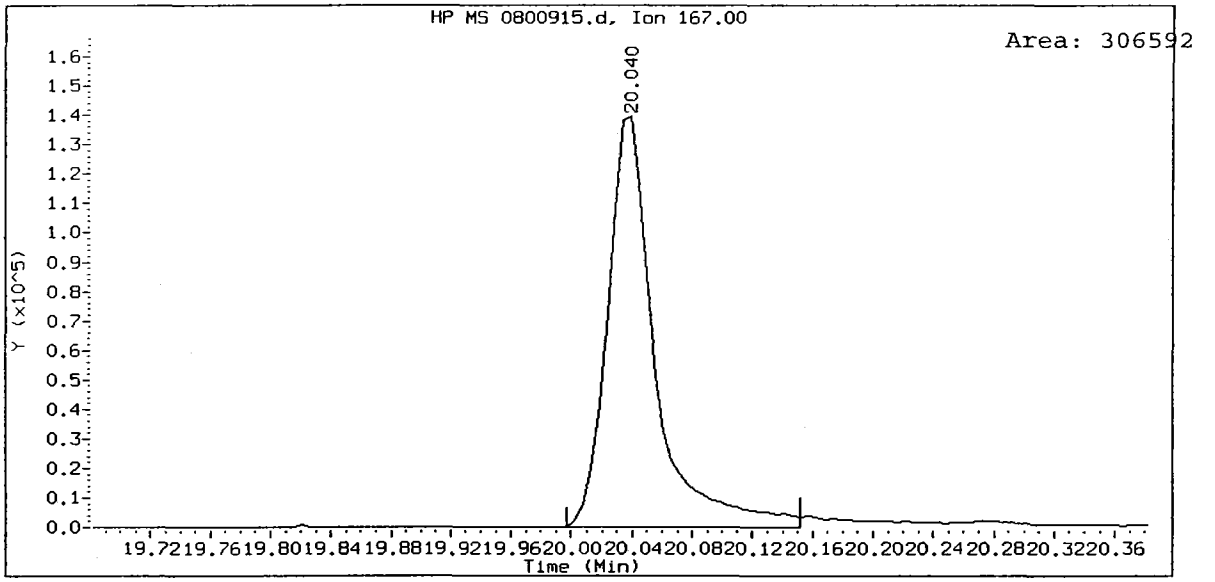
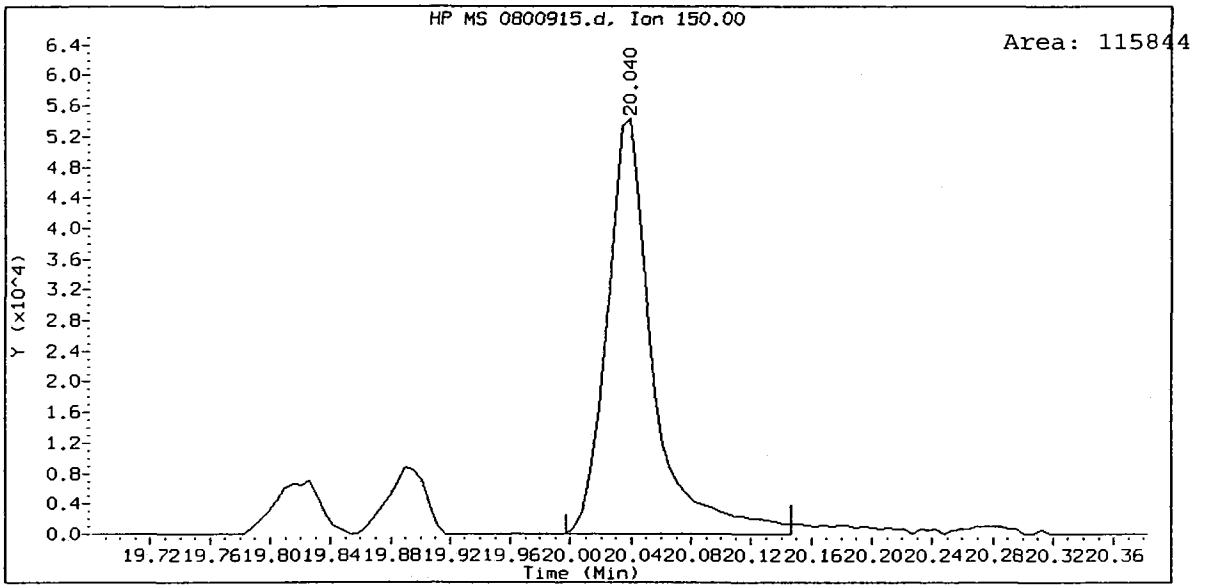
bis(2-Ethylhexyl)phthalate Amount: 89.43







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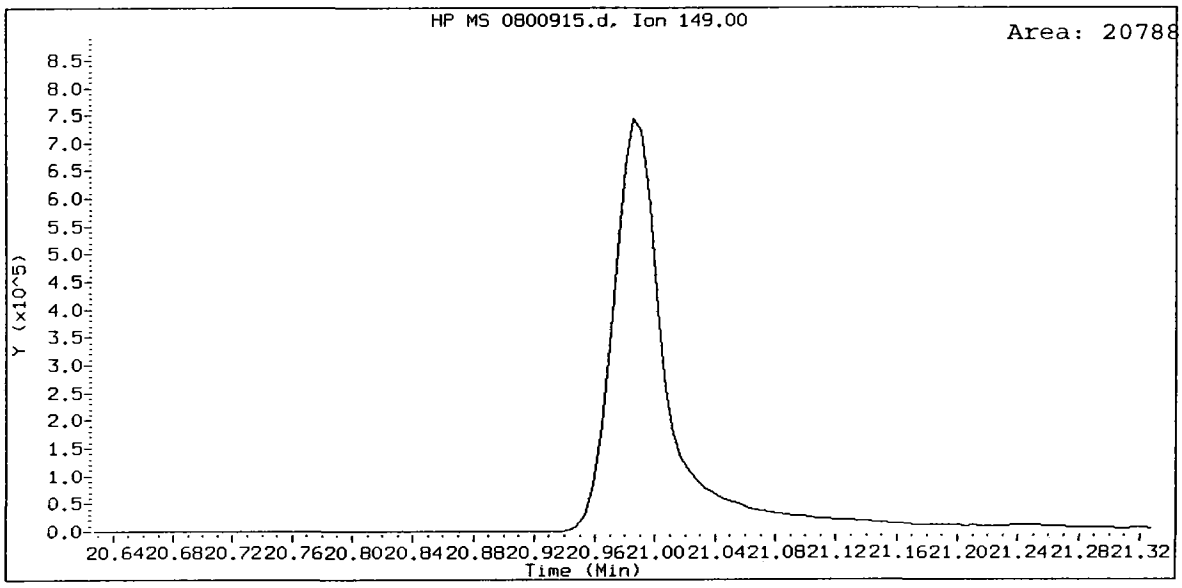
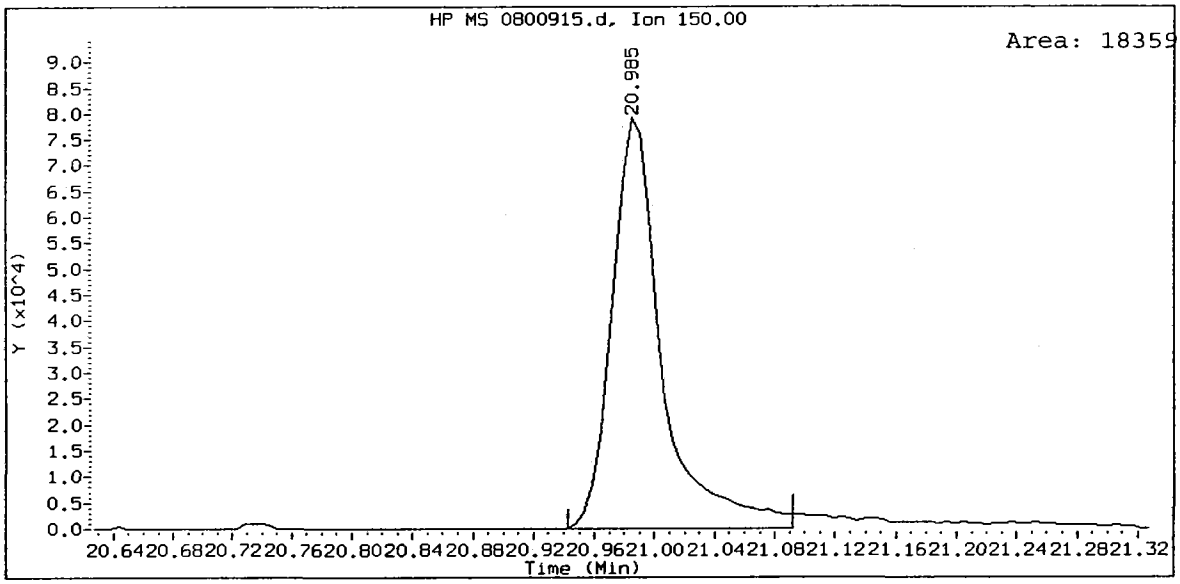
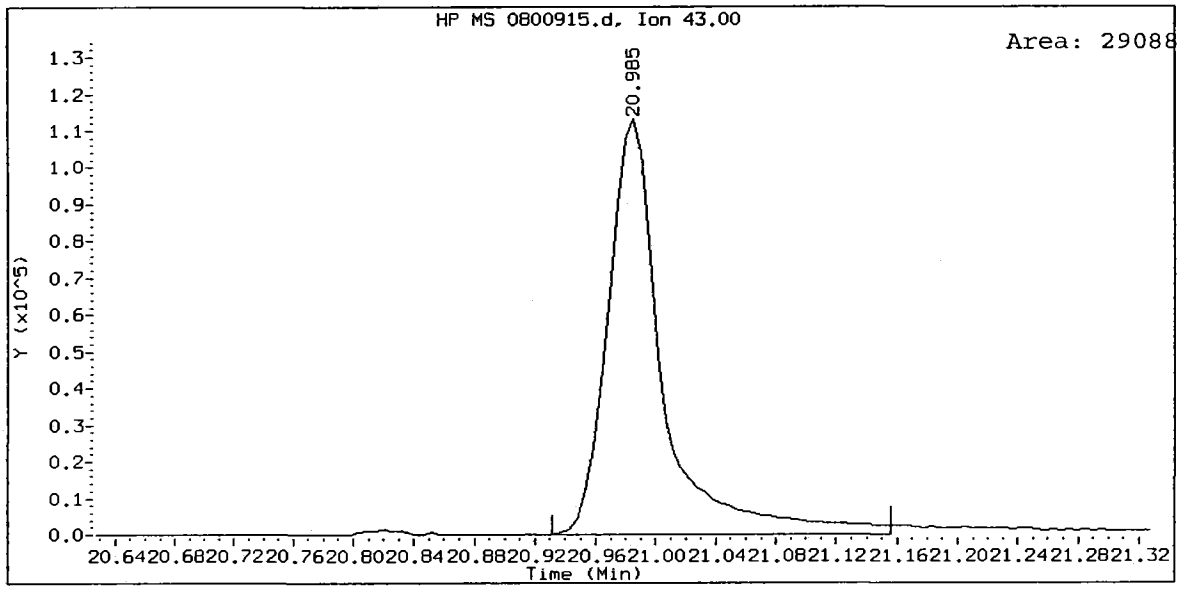
Di-n-octylphthalate Amount: 79.68







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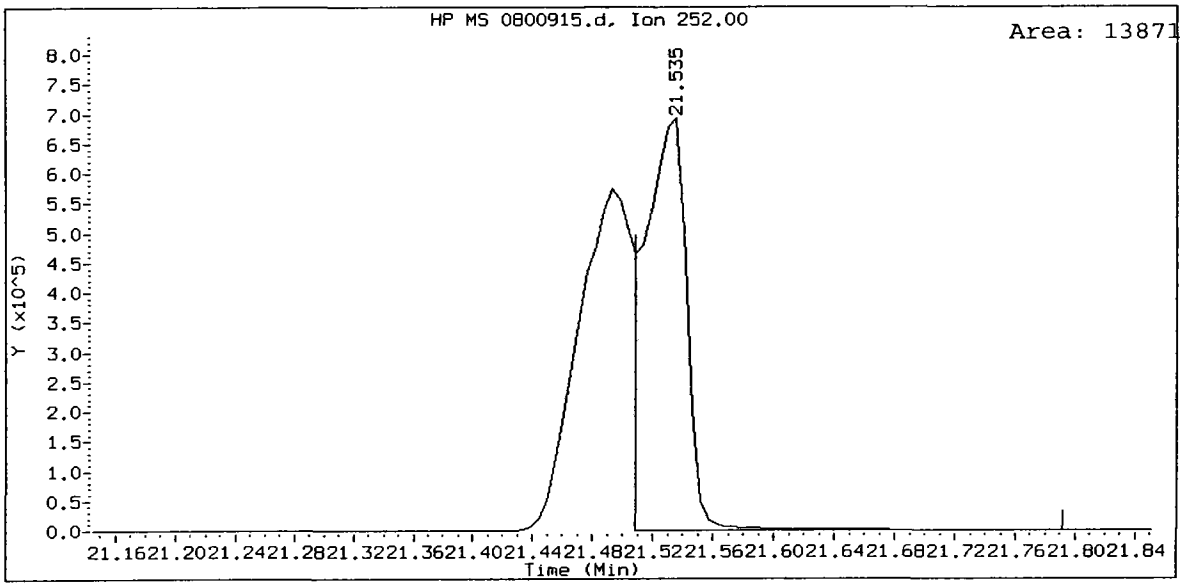
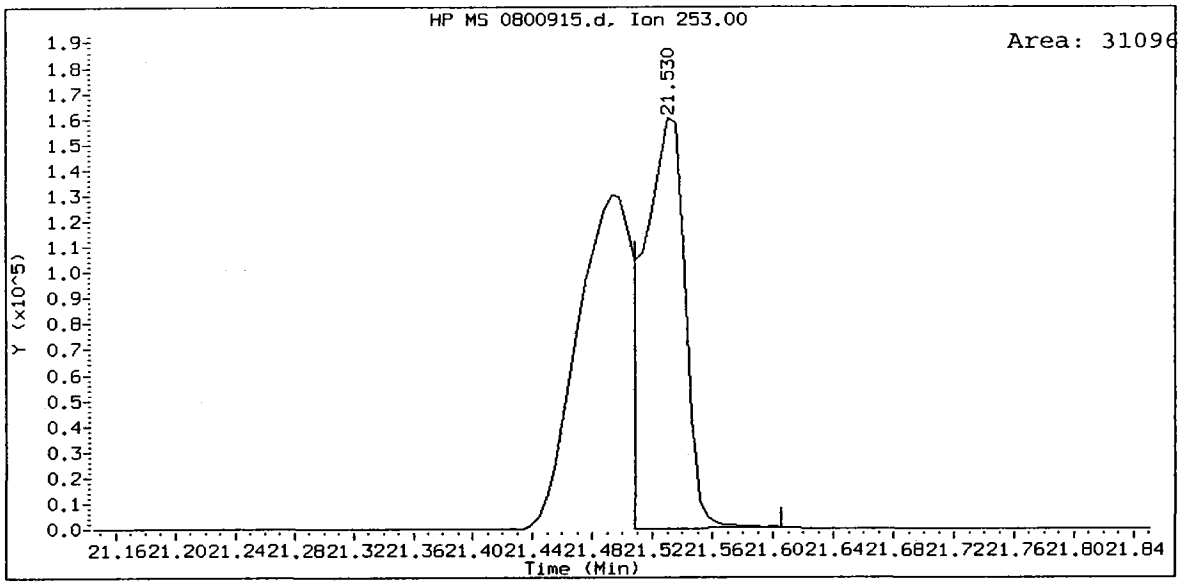
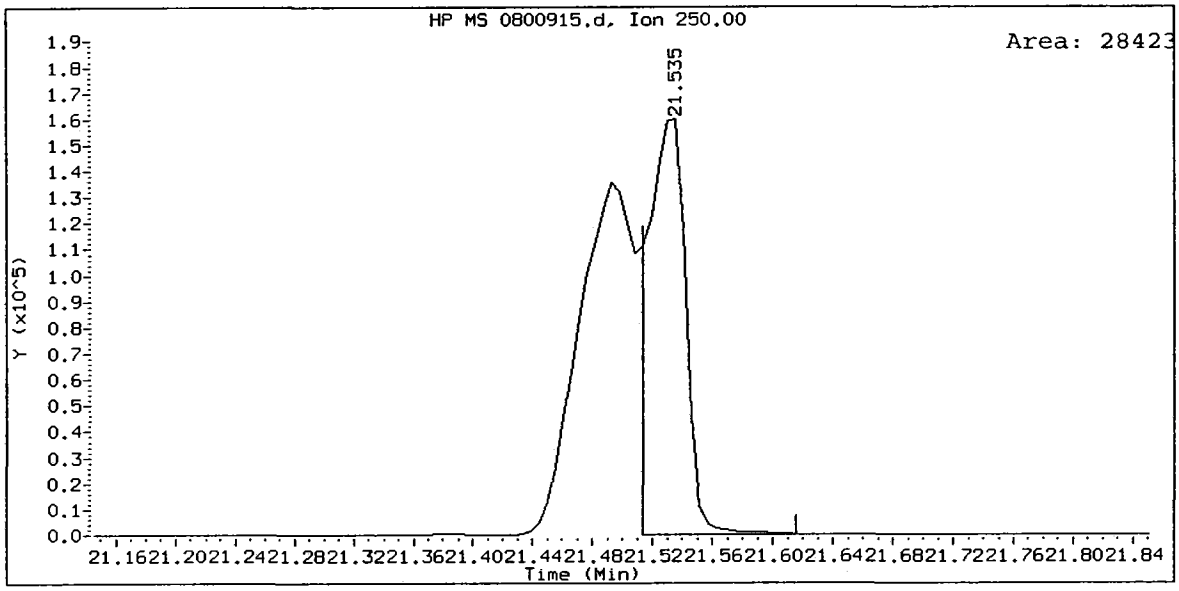
Benzo(k)fluoranthene Amount: 60.65







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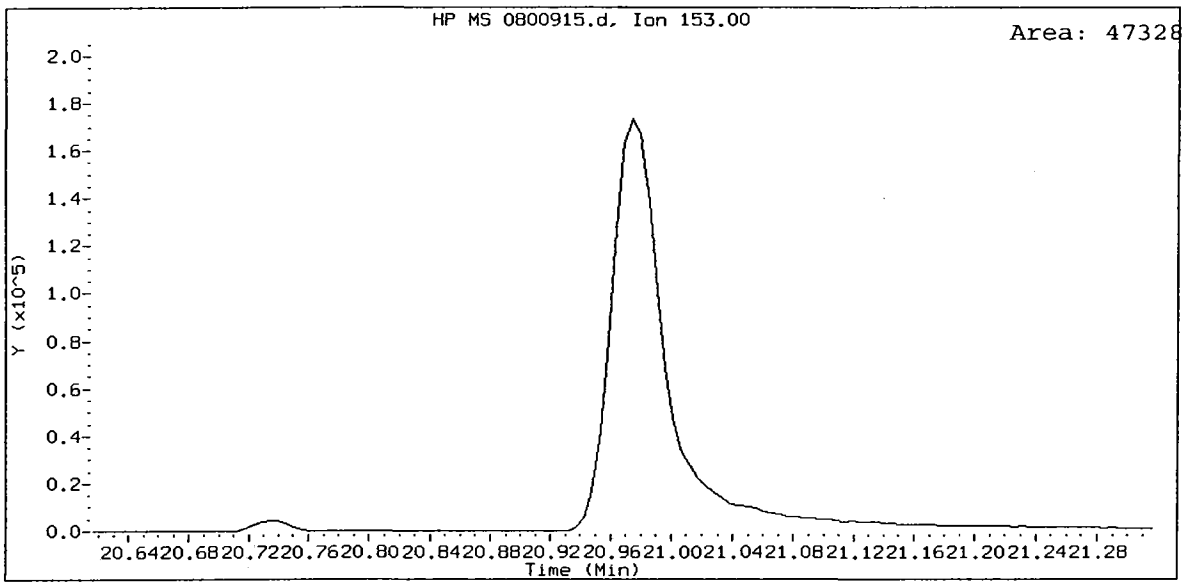
Di-n-octylphthalate-d4 Amount: 20.00



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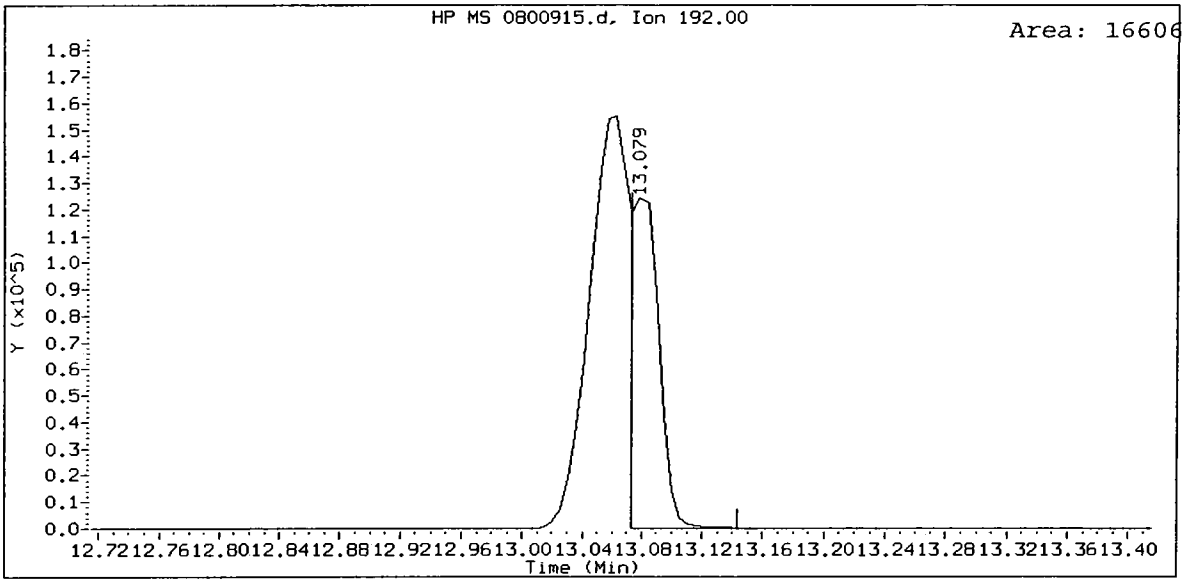
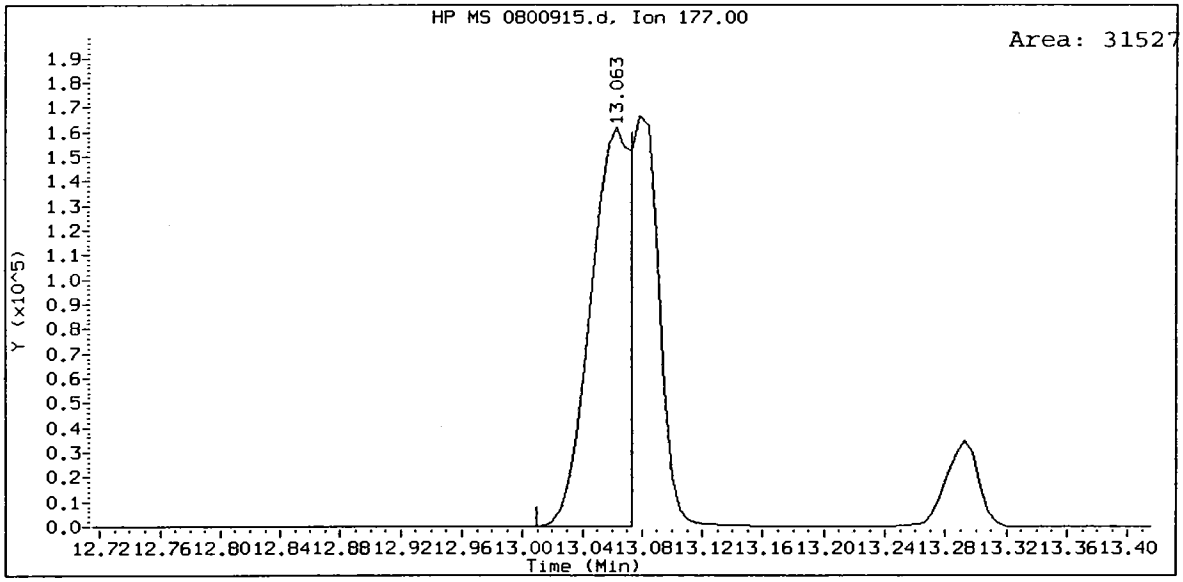
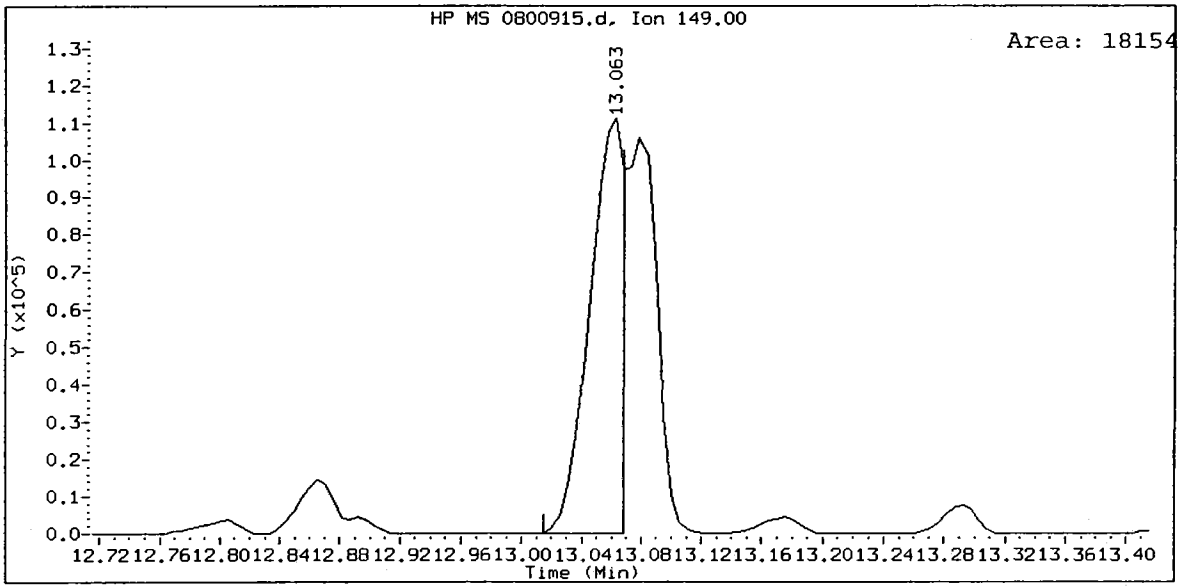
4,6-Dichloroguaiacol Amount: 67.55







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

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Inj Date : 15-SEP-2008 15:05
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : ABN ICV
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20080915.b/SW846.m
Meth Date : 15-Sep-2008 16:18 jeff Quant Type: ISTD
Cal Date : 15-SEP-2008 14:30 Cal File: 0100915.d
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICV.sub
Target Version: 3.50

LJR 9/15/08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
3	Phenol	94	7.742	7.737	(0.947)	475534	29.6439	29.64
4	Bis(2-Chloroethyl)ether	93	7.844	7.839	(0.959)	309481	23.6176	23.62
6	2-Chlorophenol	128	7.892	7.887	(0.965)	303095	27.5671	27.57
7	1,3-Dichlorobenzene	146	8.111	8.111	(0.992)	257596	24.1150	24.11
* 8	1,4-Dichlorobenzene-d4	152	8.175	8.175	(1.000)	137310	20.0000	
9	1,4-Dichlorobenzene	146	8.202	8.197	(1.003)	253568	23.9651	23.97
11	Benzyl alcohol	108	8.453	8.448	(1.034)	202602	22.2084	22.21
12	1,2-Dichlorobenzene	146	8.495	8.496	(1.039)	249095	25.1822	25.18
13	2-Methylphenol	108	8.682	8.677	(1.062)	316592	27.2214	27.22
14	2,2'-oxybis(1-Chloropropane)	45	8.720	8.720	(1.067)	472064	22.6653	22.67
15	4-Methylphenol	108	8.917	8.912	(1.091)	328638	27.5156	27.52
16	N-Nitroso-di-n-propylamine	70	8.939	8.928	(1.093)	215879	23.3947	23.39
17	Hexachloroethane	117	8.987	8.987	(1.099)	121045	24.1555	24.16
19	Nitrobenzene	77	9.136	9.137	(0.893)	323714	25.7616	25.76
20	Isophorone	82	9.526	9.516	(0.931)	578881	25.2241	25.22
21	2-Nitrophenol	139	9.660	9.655	(0.944)	157260	27.3963	27.40
22	2,4-Dimethylphenol	107	9.761	9.756	(0.954)	304872	26.2852	26.29
23	Bis(2-Chloroethoxy)methane	93	9.916	9.911	(0.969)	347523	22.6881	22.69
24	Benzoic acid	105	10.023	9.943	(0.980)	537990	55.7811	55.78
25	2,4-Dichlorophenol	162	10.039	10.034	(0.981)	207169	28.5095	28.51
26	1,2,4-Trichlorobenzene	180	10.173	10.173	(0.994)	185469	23.9146	23.91
* 27	Naphthalene-d8	136	10.232	10.227	(1.000)	515088	20.0000	
28	Naphthalene	128	10.264	10.259	(1.003)	668229	24.1303	24.13
29	4-Chloroaniline	127	10.403	10.403	(1.017)	311175	25.0505	25.05
30	Hexachlorobutadiene	225	10.584	10.584	(1.034)	97117	23.5939	23.59
31	4-Chloro-3-methylphenol	107	11.209	11.204	(1.096)	270762	29.9258	29.93
32	2-Methylnaphthalene	141	11.391	11.386	(1.113)	360886	25.8390	25.84

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
	33 Hexachlorocyclopentadiene	237	11.770	11.770	(0.898)	88929	22.1561	22.16
	34 2,4,6-Trichlorophenol	196	11.904	11.899	(0.908)	141074	26.7677	26.77
	35 2,4,5-Trichlorophenol	196	11.957	11.952	(0.912)	147759	26.5526	26.55
	37 2-Chloronaphthalene	162	12.176	12.171	(0.929)	378948	22.0707	22.07
	38 2-Nitroaniline	65	12.406	12.401	(0.946)	173044	24.4669	24.47
	39 Dimethylphthalate	163	12.785	12.780	(0.975)	406204	22.6191	22.62
	40 Acenaphthylene	152	12.855	12.855	(0.980)	580393	22.3658	22.37
	41 2,6-Dinitrotoluene	165	12.876	12.876	(0.982)	90757	23.3689	23.37
*	42 Acenaphthene-d10	164	13.111	13.111	(1.000)	253271	20.0000	
	43 3-Nitroaniline	138	13.090	13.085	(0.998)	126913	27.6466	27.65
	44 Acenaphthene	153	13.164	13.159	(1.004)	367466	21.8104	21.81
	45 2,4-Dinitrophenol	184	13.255	13.250	(1.011)	132343	60.3308	60.33
	46 Dibenzofuran	168	13.426	13.421	(1.024)	522463	25.2815	25.28
	47 4-Nitrophenol	109	13.378	13.368	(1.020)	80676	28.3658	28.37
	48 2,4-Dinitrotoluene	165	13.506	13.501	(1.030)	127620	24.5110	24.51
	49 Fluorene	166	13.987	13.982	(1.067)	402251	23.9033	23.90
	50 Diethylphthalate	149	13.950	13.939	(1.064)	412903	22.2614	22.26
	51 4-Chlorophenyl-phenylether	204	14.008	14.003	(1.068)	172081	23.9010	23.90
	52 4-Nitroaniline	138	14.094	14.078	(1.075)	128705	25.4961	25.50
	53 4,6-Dinitro-2-methylphenol	198	14.169	14.158	(0.914)	162370	54.6244	54.62
	54 N-Nitrosodiphenylamine	169	14.211	14.206	(0.917)	296703	30.9651	30.97
	56 4-Bromophenyl-phenylether	248	14.794	14.794	(0.954)	103018	22.3585	22.36
	57 Hexachlorobenzene	284	15.018	15.013	(0.969)	105201	23.8790	23.88
	58 Pentachlorophenol	266	15.312	15.307	(0.988)	88728	27.2234	27.22
*	59 Phenanthrene-d10	188	15.499	15.499	(1.000)	365143	20.0000	
	60 Phenanthrene	178	15.536	15.537	(1.002)	547167	23.6422	23.64
	61 Anthracene	178	15.611	15.606	(1.007)	566667	24.6085	24.61
	62 Carbazole	167	15.889	15.889	(1.025)	533983	25.3784	25.38
	63 Di-n-butylphthalate	149	16.605	16.605	(1.071)	687639	24.1736	24.17
	64 Fluoranthene	202	17.486	17.481	(1.128)	543977	24.5386	24.54
	65 Pyrene	202	17.839	17.839	(0.899)	546863	27.5448	27.54
	67 Butylbenzylphthalate	149	19.041	19.036	(0.960)	262640	26.2275	26.23
	68 Benzo(a)anthracene	228	19.805	19.805	(0.998)	424469	23.6945	23.69
*	69 Chrysene-d12	240	19.837	19.832	(1.000)	269681	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.815	19.810	(0.999)	143160	23.4631	23.46
	71 Chrysene	228	19.874	19.874	(1.002)	441373	23.9989	24.00
	72 bis(2-Ethylhexyl)phthalate	149	20.034	20.029	(0.955)	306427	28.2960	28.30
*	134 Di-n-octylphthalate-d4	153	20.969	20.964	(1.000)	389987	20.0000	
	73 Di-n-octylphthalate	149	20.980	20.975	(1.000)	521060	23.3876	23.39
	74 Benzo(b)fluoranthene	252	21.471	21.466	(0.976)	443371	23.7334	23.73
	75 Benzo(k)fluoranthene	252	21.503	21.498	(0.977)	468639	24.1941	24.19
	76 Benzo(a)pyrene	252	21.926	21.920	(0.997)	440555	24.9890	24.99
*	77 Perylene-d12	264	22.000	22.001	(1.000)	300552	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	23.587	23.576	(1.072)	535317	25.5371	25.54
	79 Dibenzo(a,h)anthracene	278	23.608	23.603	(1.073)	441868	25.3507	25.35
	80 Benzo(g,h,i)perylene	276	24.030	24.015	(1.092)	507866	26.1331	26.13
	103 Pyridine	79	3.527	3.543	(0.431)	370302	26.7506	26.75

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
90 N-Nitrosodimethylamine	74	3.554	3.538	(0.435)	202955	23.2462	23.25
91 Aniline	93	7.726	7.721	(0.945)	481452	26.0509	26.05
105 1-methylnaphthalene	141	11.562	11.562	(1.130)	347572	24.8225	24.82
111 Azobenzene (1,2-DP-Hydrazine)	77	14.260	14.254	(1.088)	603352	24.0554	24.06
93 Benzidine	184	17.732	17.727	(0.894)	212706	27.4950	27.50

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: icv0915.d
Lab Smp Id: ABN ICV
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20080915.b/SW846.m
Misc Info:

Calibration Date: 15-SEP-2008
Calibration Time: 11:35

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134449	67224	268898	137310	2.13
27 Naphthalene-d8	498098	249049	996196	515088	3.41
42 Acenaphthene-d10	240116	120058	480232	253271	5.48
59 Phenanthrene-d10	337544	168772	675088	365143	8.18
69 Chrysene-d12	261699	130850	523398	269681	3.05
134 Di-n-octylphthala	511931	255966	1023862	389987	-23.82
77 Perylene-d12	338505	169252	677010	300552	-11.21

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.17	7.67	8.67	8.17	0.01
27 Naphthalene-d8	10.23	9.73	10.73	10.23	0.01
42 Acenaphthene-d10	13.11	12.61	13.61	13.11	0.00
59 Phenanthrene-d10	15.50	15.00	16.00	15.50	0.00
69 Chrysene-d12	19.84	19.34	20.34	19.84	0.00
134 Di-n-octylphthala	20.97	20.47	21.47	20.97	0.00
77 Perylene-d12	22.00	21.50	22.50	22.00	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 20080915
Sample Matrix: NONE Fraction: SV
Lab Smp Id: ABN ICV
Level: Operator: LJR/VTS
Data Type: MS DATA SampleType: LCS
SpikeList File: ICV.spk Quant Type: ISTD
Sublist File: ICV.sub
Method File: /chem1/nt6.i/20080915.b/SW846.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
3 Phenol	25.00	29.64	118.58	
4 Bis(2-Chloroethyl)	25.00	23.62	94.47	
6 2-Chlorophenol	25.00	27.57	110.27	
7 1,3-Dichlorobenzen	25.00	24.11	96.46	
9 1,4-Dichlorobenzen	25.00	23.97	95.86	
11 Benzyl alcohol	25.00	22.21	88.83	
12 1,2-Dichlorobenzen	25.00	25.18	100.73	
13 2-Methylphenol	25.00	27.22	108.89	
14 2,2'-oxybis(1-Chlo	25.00	22.67	90.66	
15 4-Methylphenol	25.00	27.52	110.06	
16 N-Nitroso-di-n-pro	25.00	23.39	93.58	
17 Hexachloroethane	25.00	24.16	96.62	
19 Nitrobenzene	25.00	25.76	103.05	
20 Isophorone	25.00	25.22	100.90	
21 2-Nitrophenol	25.00	27.40	109.59	
22 2,4-Dimethylphenol	25.00	26.29	105.14	
23 Bis(2-Chloroethoxy	25.00	22.69	90.75	
24 Benzoic acid	50.00	55.78	111.56	
25 2,4-Dichlorophenol	25.00	28.51	114.04	
26 1,2,4-Trichloroben	25.00	23.91	95.66	
28 Naphthalene	25.00	24.13	96.52	
29 4-Chloroaniline	25.00	25.05	100.20	
30 Hexachlorobutadien	25.00	23.59	94.38	
31 4-Chloro-3-methylp	25.00	29.93	119.70	
32 2-Methylnaphthalen	25.00	25.84	103.36	
33 Hexachlorocyclopen	25.00	22.16	88.62	
34 2,4,6-Trichlorophe	25.00	26.77	107.07	
35 2,4,5-Trichlorophe	25.00	26.55	106.21	
37 2-Chloronaphthalen	25.00	22.07	88.28	
38 2-Nitroaniline	25.00	24.47	97.87	
39 Dimethylphthalate	25.00	22.62	90.48	
40 Acenaphthylene	25.00	22.37	89.46	
41 2,6-Dinitrotoluene	25.00	23.37	93.48	

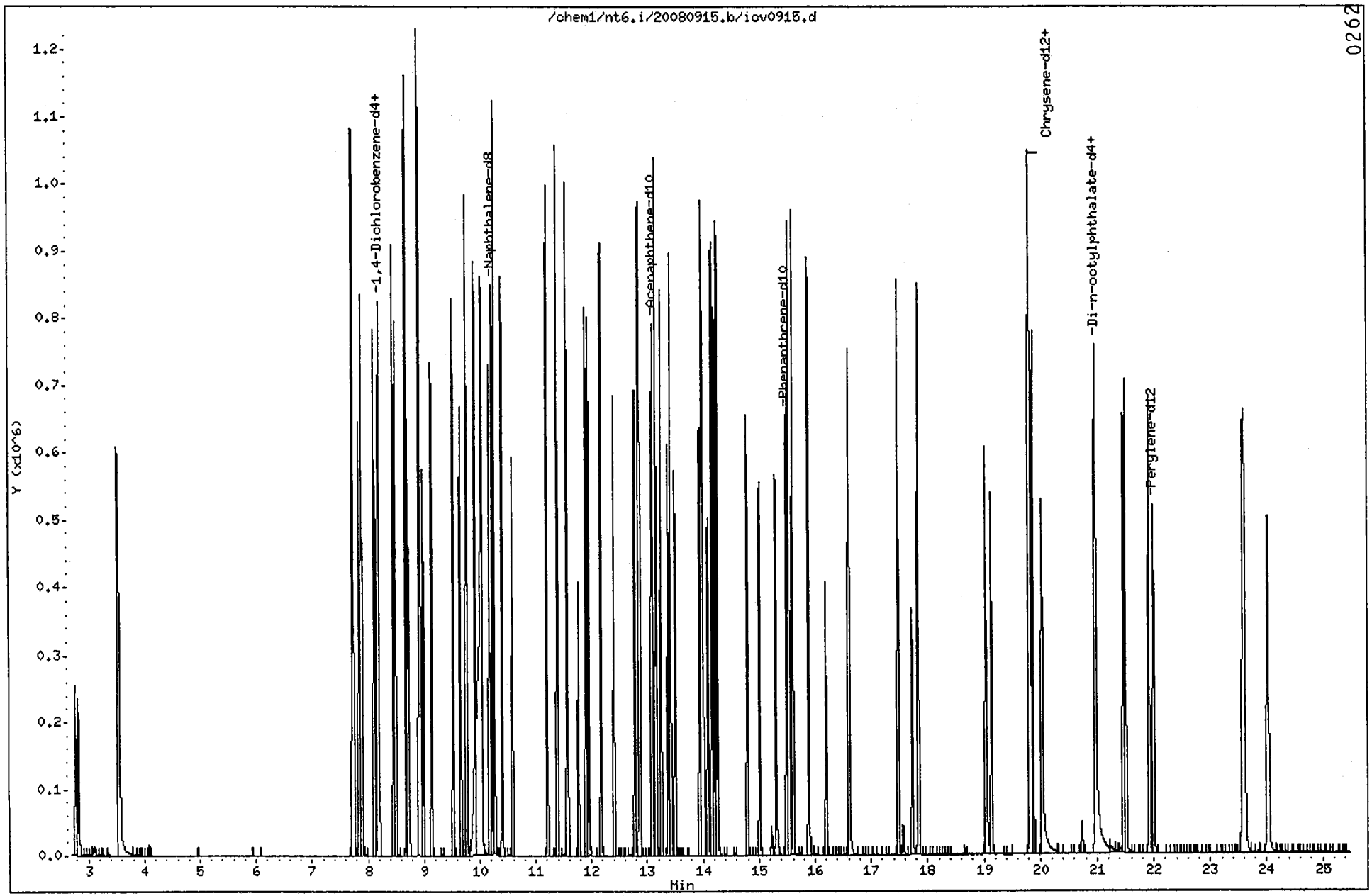
SPIKE	COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
43	3-Nitroaniline	25.00	27.65	110.59	
44	Acenaphthene	25.00	21.81	87.24	
45	2,4-Dinitrophenol	50.00	60.33	120.66	
46	Dibenzofuran	25.00	25.28	101.13	
47	4-Nitrophenol	25.00	28.37	113.46	
48	2,4-Dinitrotoluene	25.00	24.51	98.04	
49	Fluorene	25.00	23.90	95.61	
50	Diethylphthalate	25.00	22.26	89.05	
51	4-Chlorophenyl-phe	25.00	23.90	95.60	
52	4-Nitroaniline	25.00	25.50	101.98	
53	4,6-Dinitro-2-meth	50.00	54.62	109.25	
54	N-Nitrosodiphenyla	25.00	30.97	123.86	
56	4-Bromophenyl-phen	25.00	22.36	89.43	
57	Hexachlorobenzene	25.00	23.88	95.52	
58	Pentachlorophenol	25.00	27.22	108.89	
60	Phenanthrene	25.00	23.64	94.57	
61	Anthracene	25.00	24.61	98.43	
62	Carbazole	25.00	25.38	101.51	
63	Di-n-butylphthalat	25.00	24.17	96.69	
64	Fluoranthene	25.00	24.54	98.15	
65	Pyrene	25.00	27.54	110.18	
67	Butylbenzylphthala	25.00	26.23	104.91	
68	Benzo(a)anthracene	25.00	23.69	94.78	
70	3,3'-Dichlorobenzi	25.00	23.46	93.85	
71	Chrysene	25.00	24.00	96.00	
72	bis(2-Ethylhexyl)p	25.00	28.30	113.18	
73	Di-n-octylphthalat	25.00	23.39	93.55	
74	Benzo(b)fluoranthe	25.00	23.73	94.93	
75	Benzo(k)fluoranthe	25.00	24.19	96.78	
76	Benzo(a)pyrene	25.00	24.99	99.96	
78	Indeno(1,2,3-cd)py	25.00	25.54	102.15	
79	Dibenzo(a,h)anthra	25.00	25.35	101.40	
80	Benzo(g,h,i)peryle	25.00	26.13	104.53	
90	N-Nitrosodimethyla	25.00	23.25	92.98	
91	Aniline	25.00	26.05	104.20	
93	Benzidine	25.00	27.50	109.98	
103	Pyridine	25.00	26.75	107.00	
105	1-methylnaphthalen	25.00	24.82	99.29	

Data File: /chem1/nt6.i/20080915.b/icv0915.d
Date : 15-SEP-2008 15:05
Client ID:
Sample Info: ABN ICV

Instrument: nt6.i

Operator: LJR/VTS
Column diameter: 0.32

Column phase: ZB-5



7B

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS52 Project: EDDON BOATYARD

Instrument ID: NT6 Cont. Calib. Date: 10/08/08

Init. Calib. Date: 09/15/08 Cont. Calib. Time: 1209

COMPOUND	CALC AMOUNT	NOM AMOUNT	CURVE	%D	MAX %D
Phenol	22.23	25.00	2ORDR	11.1	20.0
Bis(2-Chloroethyl)ether	22.08	25.00	AVRG	11.7	
2-Chlorophenol	22.94	25.00	AVRG	8.2	
1,3-Dichlorobenzene	25.45	25.00	2ORDR	-1.8	
1,4-Dichlorobenzene	26.93	25.00	2ORDR	-7.7	20.0
1,2-Dichlorobenzene	26.43	25.00	2ORDR	-5.7	
Benzyl alcohol	20.37	25.00	AVRG	18.5	
2,2'-oxybis(1-Chloropropane)	21.82	25.00	AVRG	12.7	
2-Methylphenol	22.94	25.00	AVRG	8.2	
Hexachloroethane	25.07	25.00	AVRG	-0.3	
N-Nitroso-di-n-propylamine	23.12	25.00	AVRG	7.5	
4-Methylphenol	24.12	25.00	AVRG	3.5	
Nitrobenzene	27.47	25.00	2ORDR	-9.9	
Isophorone	23.61	25.00	AVRG	5.6	
2-Nitrophenol	26.55	25.00	AVRG	-6.2	20.0
2,4-Dimethylphenol	24.85	25.00	AVRG	0.6	
Bis(2-Chloroethoxy)methane	24.36	25.00	AVRG	2.6	
2,4-Dichlorophenol	27.99	25.00	2ORDR	-12.0	20.0
1,2,4-Trichlorobenzene	26.86	25.00	2ORDR	-7.4	
Naphthalene	27.19	25.00	2ORDR	-8.8	
Benzoic acid	45.63	50.00	AVRG	8.7	
4-Chloroaniline	26.21	25.00	AVRG	-4.8	
Hexachlorobutadiene	28.50	25.00	2ORDR	-14.0	20.0
4-Chloro-3-methylphenol	25.71	25.00	2ORDR	-2.8	20.0
2-Methylnaphthalene	26.56	25.00	2ORDR	-6.2	
Hexachlorocyclopentadiene	23.44	25.00	AVRG	6.2	
2,4,6-Trichlorophenol	23.61	25.00	AVRG	5.6	20.0
2,4,5-Trichlorophenol	24.29	25.00	AVRG	2.8	
2-Chloronaphthalene	23.39	25.00	AVRG	6.4	
2-Nitroaniline	24.03	25.00	AVRG	3.9	
Acenaphthylene	24.19	25.00	AVRG	3.2	
Dimethylphthalate	22.90	25.00	AVRG	8.4	
2,6-Dinitrotoluene	26.18	25.00	AVRG	-4.7	
Acenaphthene	22.81	25.00	AVRG	8.8	20.0
3-Nitroaniline	26.25	25.00	AVRG	-5.0	
2,4-Dinitrophenol	34.98	50.00	AVRG	30.0	
Dibenzofuran	24.55	25.00	2ORDR	1.8	

<- Outside QC limits

FORM VII SV-1

7C

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS52 Project: EDDON BOATYARD

Instrument ID: NT6 Cont. Calib. Date: 10/08/08

Init. Calib. Date: 09/15/08 Cont. Calib. Time: 1209

COMPOUND	CALC AMOUNT	NOM AMOUNT	CURVE	%D	MAX %D
4-Nitrophenol	24.39	25.00	AVRG	2.4	
2,4-Dinitrotoluene	23.96	25.00	AVRG	4.2	
Fluorene	26.32	25.00	2ORDR	-5.3	
4-Chlorophenyl-phenylether	25.02	25.00	2ORDR	-0.1	
Diethylphthalate	21.81	25.00	AVRG	12.8	
4-Nitroaniline	24.11	25.00	AVRG	3.6	
4,6-Dinitro-2-methylphenol	40.54	50.00	AVRG	18.9	
N-Nitrosodiphenylamine(1)	23.22	25.00	AVRG	7.1	
4-Bromophenyl-phenylether	25.99	25.00	AVRG	-4.0	
Hexachlorobenzene	29.08	25.00	2ORDR	-16.3	
Pentachlorophenol	26.35	25.00	AVRG	-5.4	20.0
Phenanthrene	26.52	25.00	2ORDR	-6.1	
Anthracene	25.15	25.00	2ORDR	-0.6	
Carbazole	26.99	25.00	2ORDR	-8.0	
Di-n-butylphthalate	26.02	25.00	AVRG	-4.1	
Fluoranthene	28.33	25.00	2ORDR	-13.3	20.0
Pyrene	24.13	25.00	2ORDR	3.5	
Butylbenzylphthalate	25.77	25.00	AVRG	-3.1	
Benzo(a)anthracene	28.14	25.00	2ORDR	-12.6	
3,3'-Dichlorobenzidine	27.99	25.00	AVRG	-12.0	
Chrysene	24.46	25.00	2ORDR	2.2	
bis(2-Ethylhexyl)phthalate	28.27	25.00	AVRG	-13.1	
Di-n-octylphthalate	24.46	25.00	AVRG	2.2	20.0
Benzo(b)fluoranthene	28.39	25.00	2ORDR	-13.6	
Benzo(k)fluoranthene	25.25	25.00	2ORDR	-1.0	
Benzo(a)pyrene	26.55	25.00	2ORDR	-6.2	20.0
Indeno(1,2,3-cd)pyrene	21.94	25.00	2ORDR	12.2	
Dibenzo(a,h)anthracene	26.45	25.00	2ORDR	-5.8	
Benzo(g,h,i)perylene	24.93	25.00	2ORDR	0.3	
N-Nitrosodimethylamine	0.000	25.00	AVRG	100.0	
Aniline	26.24	25.00	AVRG	-5.0	
Benzidine	19.94	25.00	AVRG	20.2	
Pyridine	0.000	25.00	AVRG	100.0	
1-methylnaphthalene	26.77	25.00	2ORDR	-7.1	
Azobenzene (1,2-DP-Hydrazine	24.04	25.00	AVRG	3.8	

(1) Cannot be separated from Diphenylamine

<- Outside QC limits

FORM VII SV-2

7C

SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS52 Project: EDDON BOATYARD

Instrument ID: NT6 Cont. Calib. Date: 10/08/08

Init. Calib. Date: 09/15/08 Cont. Calib. Time: 1209

COMPOUND	CALC AMOUNT	NOM AMOUNT	CURVE	%D	MAX %D
2-Fluorophenol	25.35	25.00	AVRG	-1.4	
Phenol-d5	26.69	25.00	2ORDR	-6.8	
2-Chlorophenol-d4	25.43	25.00	2ORDR	-1.7	
1,2-Dichlorobenzene-d4	27.44	25.00	2ORDR	-9.8	
Nitrobenzene-d5	24.38	25.00	AVRG	2.5	
2-Fluorobiphenyl	24.69	25.00	2ORDR	1.2	
2,4,6-Tribromophenol	27.32	25.00	AVRG	-9.3	
Terphenyl-d14	23.74	25.00	2ORDR	5.0	

<- Outside QC limits

FORM VII SV-3

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i
Lab File ID: cc1008.d
Analysis Type:
Lab Sample ID: ABN 25
Method: /chem1/nt6.i/20081008.b/SW846.m

Injection Date: 08-OCT-2008 12:09
Init. Cal. Date(s): 15-SEP-2008 15-SEP-2008
Init. Cal. Times: 11:35 14:30
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 2-Fluorophenol	1.60517	1.62750	1.62750	0.010	-1.39135	100	Averaged
$ 2 Phenol-d5	26.68778	25.00000	2.17778	0.010	-6.75110	100	Quadratic
3 Phenol	22.23249	25.00000	2.14151	0.010	11.07005	20.00000	Quadratic
$ 5 2-Chlorophenol-d4	25.43499	25.00000	1.27314	0.010	-1.73996	100	Quadratic
4 Bis(2-Chloroethyl)ether	1.90864	1.68585	1.68585	0.010	11.67253	100	Averaged
6 2-Chlorophenol	1.60145	1.46976	1.46976	0.010	8.22332	100	Averaged
7 1,3-Dichlorobenzene	25.45020	25.00000	1.57707	0.010	-1.80080	100	Quadratic
9 1,4-Dichlorobenzene	26.93059	25.00000	1.64168	0.010	-7.72235	20.00000	Quadratic
$ 10 1,2-Dichlorobenzene-d4	27.43804	25.00000	0.90784	0.010	-9.75214	100	Quadratic
12 1,2-Dichlorobenzene	26.42711	25.00000	1.51393	0.010	-5.70844	100	Quadratic
11 Benzyl alcohol	1.32878	1.08261	1.08261	0.010	18.52576	100	Averaged
14 2,2'-oxybis(1-Chloropropane	3.03365	2.64821	2.64821	0.010	12.70545	100	Averaged
13 2-Methylphenol	1.69401	1.55460	1.55460	0.010	8.22955	100	Averaged
17 Hexachloroethane	0.72989	0.73187	0.73187	0.010	-0.27040	100	Averaged
16 N-Nitroso-di-n-propylamine	1.34406	1.24309	1.24309	0.050	7.51241	100	Averaged
15 4-Methylphenol	1.73966	1.67850	1.67850	0.010	3.51586	100	Averaged
$ 18 Nitrobenzene-d5	0.50498	0.49242	0.49242	0.010	2.48733	100	Averaged
19 Nitrobenzene	27.47036	25.00000	0.53249	0.010	-9.88142	100	Quadratic
20 Isophorone	0.89109	0.84141	0.84141	0.010	5.57533	100	Averaged
21 2-Nitrophenol	0.22288	0.23671	0.23671	0.010	-6.20238	20.00000	Averaged
22 2,4-Dimethylphenol	0.45035	0.44768	0.44768	0.010	0.59326	100	Averaged
23 Bis(2-Chloroethoxy)methane	0.59475	0.57948	0.57948	0.010	2.56675	100	Averaged
24 Benzoic acid	0.37449	0.34173	0.34173	0.010	8.74833	100	Averaged
25 2,4-Dichlorophenol	27.99465	25.00000	0.31654	0.010	-11.97861	20.00000	Quadratic
26 1,2,4-Trichlorobenzene	26.85613	25.00000	0.31980	0.010	-7.42452	100	Quadratic
28 Naphthalene	27.19450	25.00000	1.15123	0.010	-8.77799	100	Quadratic
29 4-Chloroaniline	0.48232	0.50564	0.50564	0.010	-4.83422	100	Averaged
30 Hexachlorobutadiene	28.49934	25.00000	0.17864	0.010	-13.99735	20.00000	Quadratic
31 4-Chloro-3-methylphenol	25.70566	25.00000	0.36652	0.010	-2.82265	20.00000	Quadratic
32 2-Methylnaphthalene	26.56175	25.00000	0.57395	0.010	-6.24701	100	Quadratic
33 Hexachlorocyclopentadiene	0.31695	0.29723	0.29723	0.050	6.22196	100	Averaged
34 2,4,6-Trichlorophenol	0.41618	0.39299	0.39299	0.010	5.57264	20.00000	Averaged
35 2,4,5-Trichlorophenol	0.43943	0.42701	0.42701	0.010	2.82771	100	Averaged
$ 36 2-Fluorobiphenyl	24.69298	25.00000	1.32464	0.010	1.22809	100	Quadratic
37 2-Chloronaphthalene	1.35584	1.26838	1.26838	0.010	6.45053	100	Averaged

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i
Lab File ID: cc1008.d
Analysis Type:
Lab Sample ID: ABN 25
Method: /chem1/nt6.i/20081008.b/SW846.m

Injection Date: 08-OCT-2008 12:09
Init. Cal. Date(s): 15-SEP-2008 15-SEP-2008
Init. Cal. Times: 11:35 14:30
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
38 2-Nitroaniline	0.55850	0.53686	0.53686	0.010	3.87443	100	Averaged
39 Dimethylphthalate	1.41813	1.29909	1.29909	0.010	8.39417	100	Averaged
40 Acenaphthylene	2.04919	1.98284	1.98284	0.010	3.23786	100	Averaged
41 2,6-Dinitrotoluene	0.30668	0.32119	0.32119	0.010	-4.73069	100	Averaged
43 3-Nitroaniline	0.36250	0.38066	0.38066	0.010	-5.00966	100	Averaged
44 Acenaphthene	1.33045	1.21380	1.21380	0.010	8.76782	20.00000	Averaged
45 2,4-Dinitrophenol	0.17322	0.12117	0.12117	0.050	30.04945	100	Averaged
46 Dibenzofuran	24.55004	25.00000	1.60662	0.010	1.79986	100	Quadratic
47 4-Nitrophenol	0.22459	0.21908	0.21908	0.050	2.45459	100	Averaged
48 2,4-Dinitrotoluene	0.41115	0.39401	0.39401	0.010	4.17048	100	Averaged
50 Diethylphthalate	1.46467	1.27792	1.27792	0.010	12.75059	100	Averaged
49 Fluorene	26.32114	25.00000	1.38495	0.010	-5.28457	100	Quadratic
51 4-Chlorophenyl-phenylether	25.02349	25.00000	0.56664	0.010	-0.09398	100	Quadratic
52 4-Nitroaniline	0.39863	0.38437	0.38437	0.010	3.57624	100	Averaged
53 4,6-Dinitro-2-methylphenol	0.16281	0.13202	0.13202	0.010	18.91099	100	Averaged
54 N-Nitrosodiphenylamine	0.52483	0.48743	0.48743	0.010	7.12571	20.00000	Averaged
$ 55 2,4,6-Tribromophenol	0.17783	0.19437	0.19437	0.010	-9.29916	100	Averaged
56 4-Bromophenyl-phenylether	0.25237	0.26234	0.26234	0.010	-3.95200	100	Averaged
57 Hexachlorobenzene	29.07793	25.00000	0.27554	0.010	-16.31173	100	Quadratic
58 Pentachlorophenol	0.17852	0.18819	0.18819	0.010	-5.41756	20.00000	Averaged
60 Phenanthrene	26.51957	25.00000	1.32869	0.010	-6.07830	100	Quadratic
61 Anthracene	25.14609	25.00000	1.26569	0.010	-0.58435	100	Quadratic
62 Carbazole	26.98947	25.00000	1.23737	0.010	-7.95789	100	Quadratic
63 Di-n-butylphthalate	1.55807	1.62183	1.62183	0.010	-4.09221	100	Averaged
64 Fluoranthene	28.33463	25.00000	1.35219	0.010	-13.33853	100	Quadratic
65 Pyrene	24.12627	25.00000	1.43813	0.010	3.49492	100	Quadratic
$ 66 Terphenyl-d14	23.73889	25.00000	0.86842	0.010	5.04443	100	Quadratic
67 Butylbenzylphthalate	0.74265	0.76549	0.76549	0.010	-3.07545	100	Averaged
68 Benzo(a)anthracene	28.13526	25.00000	1.47284	0.010	-12.54104	100	Quadratic
70 3,3'-Dichlorobenzidine	0.45250	0.50661	0.50661	0.010	-11.95757	100	Averaged
71 Chrysene	24.46151	25.00000	1.33285	0.010	2.15395	100	Quadratic
72 bis(2-Ethylhexyl)phthalate	0.55537	0.62792	0.62792	0.010	-13.06398	100	Averaged
73 Di-n-octylphthalate	1.14256	1.11810	1.11810	0.010	2.14127	20.00000	Averaged
74 Benzo(b)fluoranthene	28.38555	25.00000	1.39049	0.010	-13.54220	100	Quadratic
75 Benzo(k)fluoranthene	25.24948	25.00000	1.29336	0.010	-0.99791	100	Quadratic

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt6.i
Lab File ID: cc1008.d
Analysis Type:
Lab Sample ID: ABN 25
Method: /chem1/nt6.i/20081008.b/SW846.m

Injection Date: 08-OCT-2008 12:09
Init. Cal. Date(s): 15-SEP-2008 15-SEP-2008
Init. Cal. Times: 11:35 14:30
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
76 Benzo(a)pyrene	26.54999	25.00000	1.23822	0.010	-6.19994	100	Quadratic	
78 Indeno(1,2,3-cd)pyrene	21.94045	25.00000	1.24149	0.010	12.23819	100	Quadratic	
79 Dibenzo(a,h)anthracene	26.45140	25.00000	1.21964	0.010	-5.80561	100	Quadratic	
80 Benzo(g,h,i)perylene	24.93227	25.00000	1.29499	0.010	0.27091	100	Quadratic	
90 N-Nitrosodimethylamine	1.27167	++++	++++	0.010	++++	100	Averaged	<-
103 Pyridine	2.01627	++++	++++	0.010	++++	100	Averaged	<-
91 Aniline	2.69188	2.82567	2.82567	0.010	-4.96995	100	Averaged	
105 1-methylnaphthalene	26.77131	25.00000	0.57720	0.010	-7.08523	100	Quadratic	
93 Benzidine	0.57373	0.45770	0.45770	0.010	20.22357	100	Averaged	
111 Azobenzene (1,2-DP-Hydrazin	1.98063	1.90477	1.90477	0.010	3.83021	100	Averaged	
143 1,4-Dioxane	0.86597	++++	++++	0.010	++++	100	Averaged	<-
$ 137 d8-1,4-Dioxane	0.82653	++++	++++	0.010	++++	100	Averaged	<-
98 Retene	0.62008	0.54410	0.54410	0.010	12.25384	100	Averaged	
133 Butylatedhydroxytoluene	0.85505	0.83071	0.83071	0.010	2.84694	100	Averaged	
115 Tributyl Phosphate	1.22624	1.43573	1.43573	0.010	-17.08333	100	Averaged	
116 Dibutyl Phenyl Phosphate	28.02949	25.00000	0.69669	0.010	-12.11794	100	Quadratic	
117 Butyl Diphenyl Phosphate	0.33345	0.33339	0.33339	0.010	0.01674	100	Averaged	
118 Triphenyl Phosphate	25.23478	25.00000	0.23122	0.010	-0.93911	100	Quadratic	
123 Acetophenone	2.20986	1.97396	1.97396	0.010	10.67485	100	Averaged	
179 n-Decane	2.52718	2.13594	2.13594	0.010	15.48143	100	Averaged	
180 n-Octadecane	1.00665	0.85514	0.85514	0.010	15.05079	100	Averaged	
168 Pentachlorobenzene	0.46909	0.46882	0.46882	0.010	0.05837	100	Averaged	

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20081008.b/cc1008.d
Lab Smp Id: ABN 25
Inj Date : 08-OCT-2008 12:09
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : ABN 25
Misc Info :
Comment : 1ul Injection
Method : /chem1/nt6.i/20081008.b/SW846.m
Meth Date : 09-Oct-2008 09:01 jeff Quant Type: ISTD
Cal Date : 15-SEP-2008 14:30 Cal File: 0100915.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	4.354	4.354	(0.669)	242042	25.0000	25.35
$	2 Phenol-d5	99	6.213	6.213	(0.954)	323880	25.0000	26.69
	3 Phenol	94	6.235	6.235	(0.957)	318486	25.0000	22.23
$	5 2-Chlorophenol-d4	132	6.213	6.213	(0.954)	189341	25.0000	25.43
	4 Bis(2-Chloroethyl)ether	93	6.235	6.235	(0.957)	250720	25.0000	22.08
	6 2-Chlorophenol	128	6.240	6.240	(0.958)	218583	25.0000	22.94
	7 1,3-Dichlorobenzene	146	6.443	6.443	(0.989)	234542	25.0000	25.45
*	8 1,4-Dichlorobenzene-d4	152	6.513	6.513	(1.000)	118976	20.0000	
	9 1,4-Dichlorobenzene	146	6.539	6.539	(1.004)	244151	25.0000	26.93
$	10 1,2-Dichlorobenzene-d4	152	6.817	6.817	(1.047)	135014	25.0000	27.44
	12 1,2-Dichlorobenzene	146	6.838	6.838	(1.050)	225151	25.0000	26.43
	11 Benzyl alcohol	108	6.881	6.881	(1.057)	161006	25.0000	20.37 (M)
	14 2,2'-oxybis(1-Chloropropane)	45	7.154	7.154	(1.098)	393842	25.0000	21.82
	13 2-Methylphenol	108	7.186	7.186	(1.103)	231200	25.0000	22.94
	17 Hexachloroethane	117	7.335	7.335	(1.126)	108843	25.0000	25.07
	16 N-Nitroso-di-n-propylamine	70	7.378	7.378	(1.133)	184872	25.0000	23.12
	15 4-Methylphenol	108	7.431	7.431	(1.141)	249626	25.0000	24.12
$	18 Nitrobenzene-d5	82	7.496	7.496	(0.872)	255005	25.0000	24.38
	19 Nitrobenzene	77	7.522	7.522	(0.875)	275753	25.0000	27.47
	20 Isophorone	82	7.928	7.928	(0.922)	435731	25.0000	23.61
	21 2-Nitrophenol	139	8.046	8.046	(0.936)	122580	25.0000	26.55
	22 2,4-Dimethylphenol	107	8.259	8.259	(0.961)	231836	25.0000	24.85
	23 Bis(2-Chloroethoxy)methane	93	8.382	8.382	(0.975)	300090	25.0000	24.36
	24 Benzoic acid	105	8.601	8.601	(1.001)	353930	50.0000	45.63 (M)
	25 2,4-Dichlorophenol	162	8.457	8.457	(0.984)	163923	25.0000	27.99
	26 1,2,4-Trichlorobenzene	180	8.553	8.553	(0.995)	165609	25.0000	26.86
*	27 Naphthalene-d8	136	8.596	8.596	(1.000)	414286	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	28 Naphthalene	128	8.623	8.623	(1.003)	596172	25.0000	27.19
	29 4-Chloroaniline	127	8.820	8.820	(1.026)	261849	25.0000	26.21
	30 Hexachlorobutadiene	225	8.975	8.975	(1.044)	92512	25.0000	28.50
	31 4-Chloro-3-methylphenol	107	9.702	9.702	(1.129)	189803	25.0000	25.71
	32 2-Methylnaphthalene	141	9.745	9.745	(1.134)	297222	25.0000	26.56
	33 Hexachlorocyclopentadiene	237	10.135	10.135	(0.888)	77499	25.0000	23.44
	34 2,4,6-Trichlorophenol	196	10.295	10.295	(0.902)	102466	25.0000	23.61
	35 2,4,5-Trichlorophenol	196	10.348	10.348	(0.906)	111336	25.0000	24.29
$	36 2-Fluorobiphenyl	172	10.418	10.418	(0.912)	345381	25.0000	24.69
	37 2-Chloronaphthalene	162	10.503	10.503	(0.920)	330712	25.0000	23.39
	38 2-Nitroaniline	65	10.776	10.776	(0.944)	139979	25.0000	24.03
	39 Dimethylphthalate	163	11.187	11.187	(0.980)	338717	25.0000	22.90
	40 Acenaphthylene	152	11.160	11.160	(0.978)	516996	25.0000	24.19
	41 2,6-Dinitrotoluene	165	11.262	11.262	(0.986)	83746	25.0000	26.18
*	42 Acenaphthene-d10	164	11.417	11.417	(1.000)	208588	20.0000	
	43 3-Nitroaniline	138	11.449	11.449	(1.003)	99252	25.0000	26.25
	44 Acenaphthene	153	11.465	11.465	(1.004)	316479	25.0000	22.81
	45 2,4-Dinitrophenol	184	11.614	11.614	(1.017)	63187	50.0000	34.98
	46 Dibenzofuran	168	11.727	11.727	(1.027)	418902	25.0000	24.55
	47 4-Nitrophenol	109	11.855	11.855	(1.038)	57122	25.0000	24.39
	48 2,4-Dinitrotoluene	165	11.865	11.865	(1.039)	102731	25.0000	23.96
	50 Diethylphthalate	149	12.341	12.341	(1.081)	333198	25.0000	21.81
	49 Fluorene	166	12.271	12.271	(1.075)	361106	25.0000	26.32
	51 4-Chlorophenyl-phenylether	204	12.341	12.341	(1.081)	147742	25.0000	25.02
	52 4-Nitroaniline	138	12.426	12.426	(1.088)	100219	25.0000	24.11
	53 4,6-Dinitro-2-methylphenol	198	12.501	12.501	(0.910)	93520	50.0000	40.54
	54 N-Nitrosodiphenylamine	169	12.555	12.555	(0.914)	172639	25.0000	23.22
$	55 2,4,6-Tribromophenol	330	12.688	12.688	(1.111)	50679	25.0000	27.32
	56 4-Bromophenyl-phenylether	248	13.094	13.094	(0.954)	92918	25.0000	25.99
	57 Hexachlorobenzene	284	13.270	13.270	(0.967)	97592	25.0000	29.08
	58 Pentachlorophenol	266	13.591	13.591	(0.990)	66654	25.0000	26.35
*	59 Phenanthrene-d10	188	13.730	13.730	(1.000)	283346	20.0000	
	60 Phenanthrene	178	13.762	13.762	(1.002)	470600	25.0000	26.52
	61 Anthracene	178	13.837	13.837	(1.008)	448286	25.0000	25.15
	62 Carbazole	167	14.152	14.152	(1.031)	438256	25.0000	26.99
	63 Di-n-butylphthalate	149	14.953	14.953	(1.089)	574423	25.0000	26.02
	64 Fluoranthene	202	15.653	15.653	(1.140)	478922	25.0000	28.33
	65 Pyrene	202	15.990	15.990	(0.890)	492114	25.0000	24.13
$	66 Terphenyl-d14	244	16.380	16.380	(0.912)	297165	25.0000	23.74
	67 Butylbenzylphthalate	149	17.309	17.309	(0.964)	261944	25.0000	25.77
	68 Benzo(a)anthracene	228	17.929	17.929	(0.998)	503994	25.0000	28.14
*	69 Chrysene-d12	240	17.955	17.955	(1.000)	273753	20.0000	
	70 3,3'-Dichlorobenzidine	252	17.998	17.998	(1.002)	173356	25.0000	27.99
	71 Chrysene	228	17.993	17.993	(1.002)	456089	25.0000	24.46
	72 bis(2-Ethylhexyl)phthalate	149	18.340	18.340	(0.952)	381243	25.0000	28.27
*	134 Di-n-octylphthalate-d4	153	19.264	19.264	(1.000)	485719	20.0000	
	73 Di-n-octylphthalate	149	19.275	19.275	(1.001)	678852	25.0000	24.46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
74	Benzo(b)fluoranthene	252	19.553	19.553	(0.975)	596006	25.0000	28.39
75	Benzo(k)fluoranthene	252	19.585	19.585	(0.977)	554376	25.0000	25.25
76	Benzo(a)pyrene	252	19.975	19.975	(0.996)	530741	25.0000	26.55
* 77	Perylene-d12	264	20.055	20.055	(1.000)	342905	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	21.390	21.390	(1.067)	532142	25.0000	21.94
79	Dibenzo(a,h)anthracene	278	21.428	21.428	(1.068)	522775	25.0000	26.45
80	Benzo(g,h,i)perylene	276	21.674	21.674	(1.081)	555073	25.0000	24.93
90	N-Nitrosodimethylamine	74	Compound Not Detected.					
103	Pyridine	79	Compound Not Detected.					
91	Aniline	93	6.069	6.069	(0.932)	420233	25.0000	26.24
105	1-methylnaphthalene	141	9.910	9.910	(1.153)	298907	25.0000	26.77
93	Benzidine	184	15.968	15.968	(0.889)	156621	25.0000	19.94
111	Azobenzene (1,2-DP-Hydrazine)	77	12.581	12.581	(1.102)	496640	25.0000	24.04
143	1,4-Dioxane	88	Compound Not Detected.					
$ 137	d8-1,4-Dioxane	96	Compound Not Detected.					
98	Retene	219	16.599	16.599	(0.924)	186186	25.0000	21.94
133	Butylatedhydroxytoluene	205	11.678	11.678	(1.023)	216594	25.0000	24.29
115	Tributyl Phosphate	99	12.747	12.747	(0.928)	508509	25.0000	29.27
116	Dibutyl Phenyl Phosphate	175	14.408	14.408	(1.049)	246755	25.0000	28.03
117	Butyl Diphenyl Phosphate	94	16.043	16.043	(0.893)	114083	25.0000	25.00
118	Triphenyl Phosphate	326	17.598	17.598	(0.980)	79123	25.0000	25.23
123	Acetophenone	105	7.271	7.271	(1.116)	293568	25.0000	22.33
179	n-Decane	57	6.427	6.427	(0.987)	317657	25.0000	21.13
180	n-Octadecane	57	13.821	13.821	(1.007)	302877	25.0000	21.24
168	Pentachlorobenzene	250	11.769	11.769	(1.031)	122238	25.0000	24.99

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: cc1008.d
Lab Smp Id: ABN 25
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20081008.b/SW846.m
Misc Info:

Calibration Date: 08-OCT-2008
Calibration Time: 12:09

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	118976	59488	237952	118976	0.00
27 Naphthalene-d8	414286	207143	828572	414286	0.00
42 Acenaphthene-d10	208588	104294	417176	208588	0.00
59 Phenanthrene-d10	283346	141673	566692	283346	0.00
69 Chrysene-d12	273753	136876	547506	273753	0.00
134 Di-n-octylphthala	485719	242860	971438	485719	0.00
77 Perylene-d12	342905	171452	685810	342905	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.51	6.01	7.01	6.51	0.00
27 Naphthalene-d8	8.60	8.10	9.10	8.60	0.00
42 Acenaphthene-d10	11.42	10.92	11.92	11.42	0.00
59 Phenanthrene-d10	13.73	13.23	14.23	13.73	0.00
69 Chrysene-d12	17.96	17.46	18.46	17.96	0.00
134 Di-n-octylphthala	19.26	18.76	19.76	19.26	0.00
77 Perylene-d12	20.05	19.55	20.55	20.05	0.00

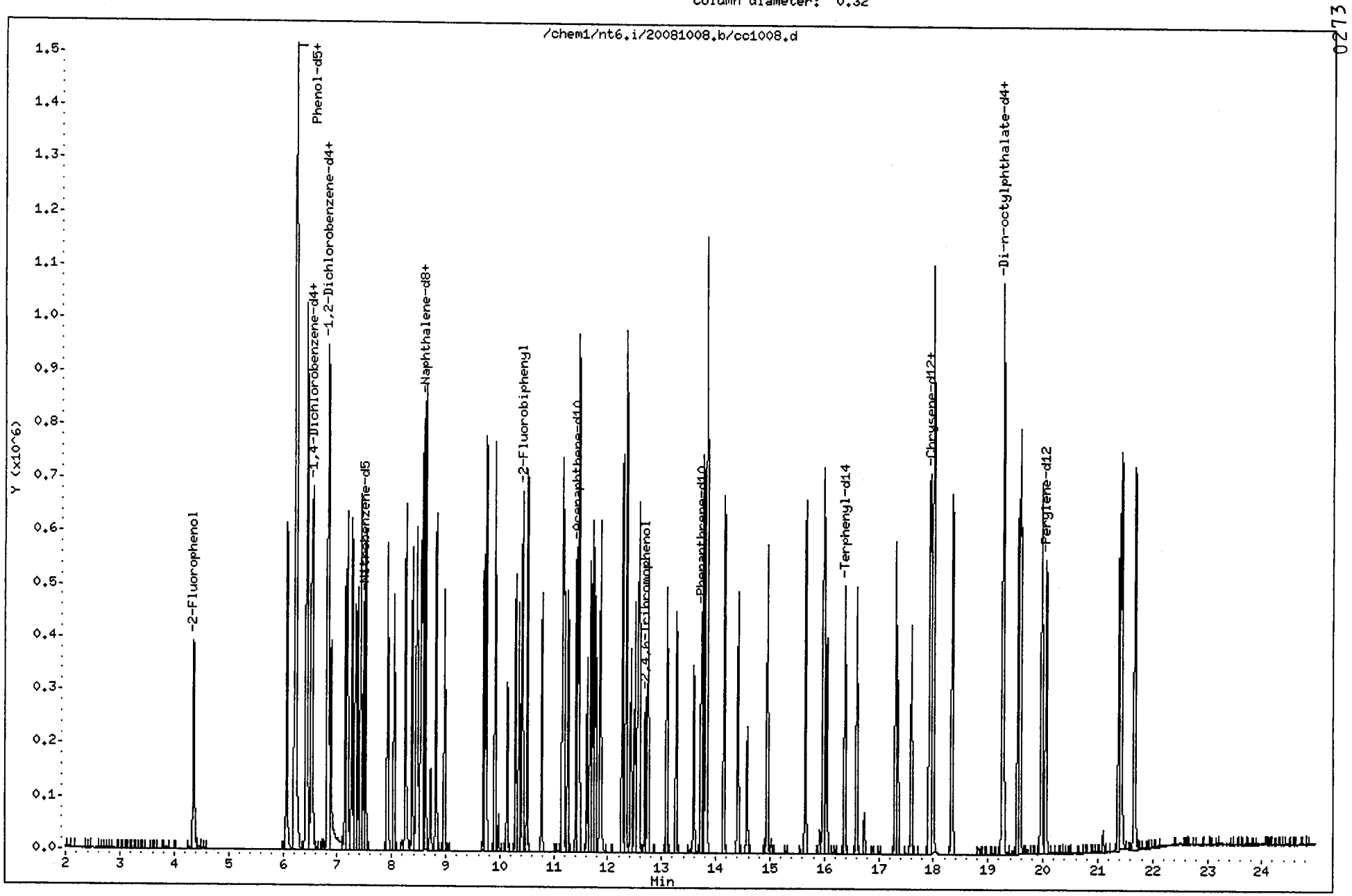
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt6.i/20081008.b/cc1008.d
Date : 08-OCT-2008 12:09
Client ID:
Sample Info: ABN 25

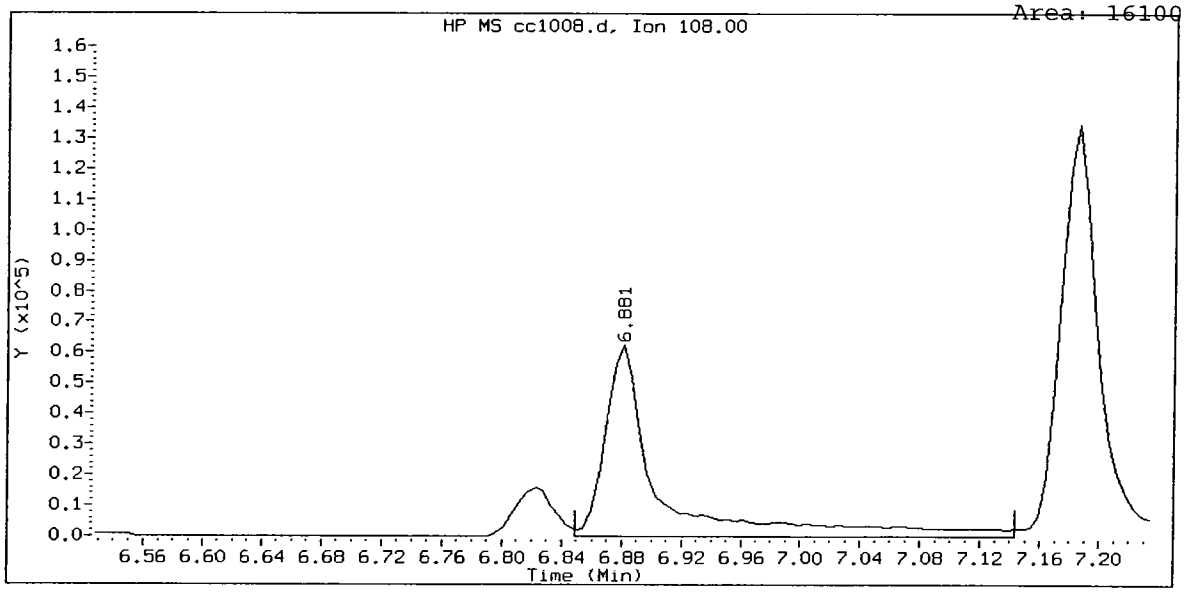
Column phase: ZB-5

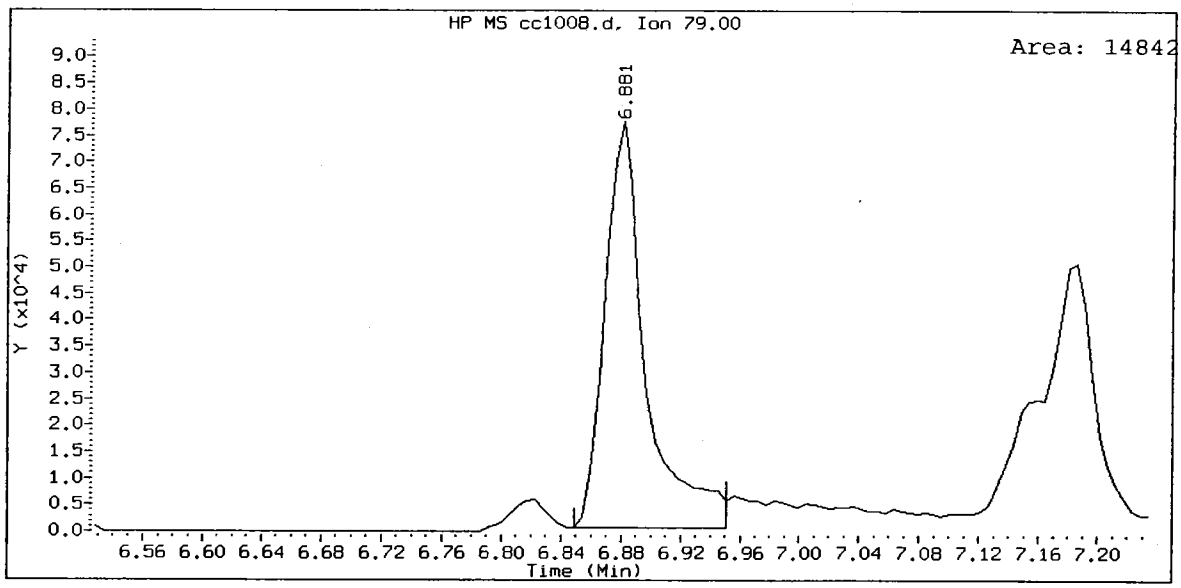
Instrument: nt6.i

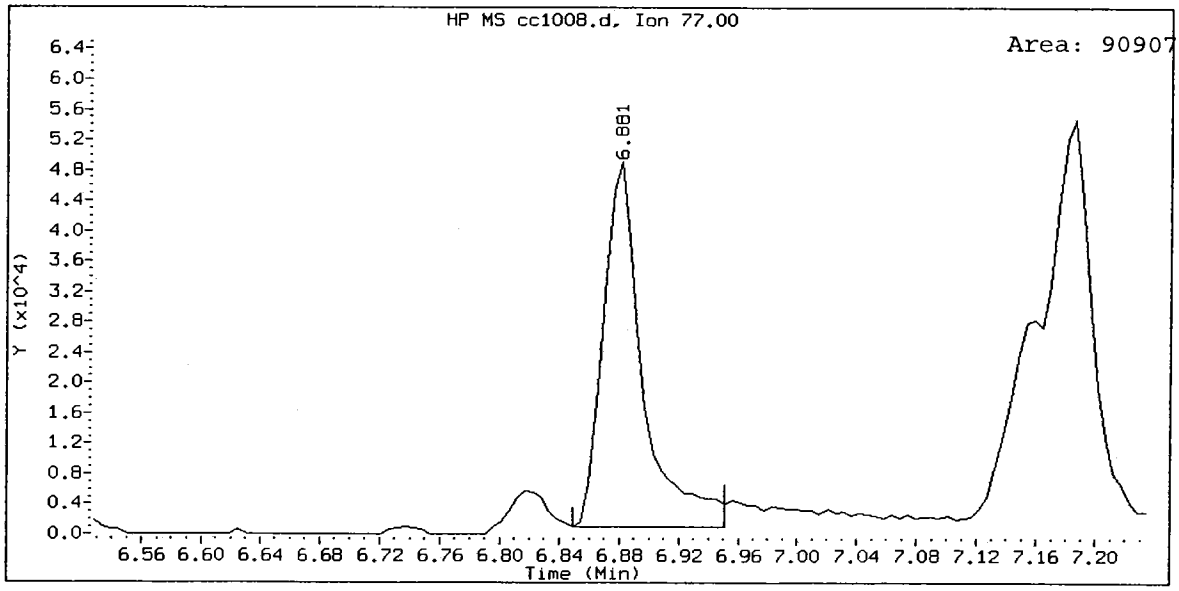
Operator: LJR/VTS
Column diameter: 0.32



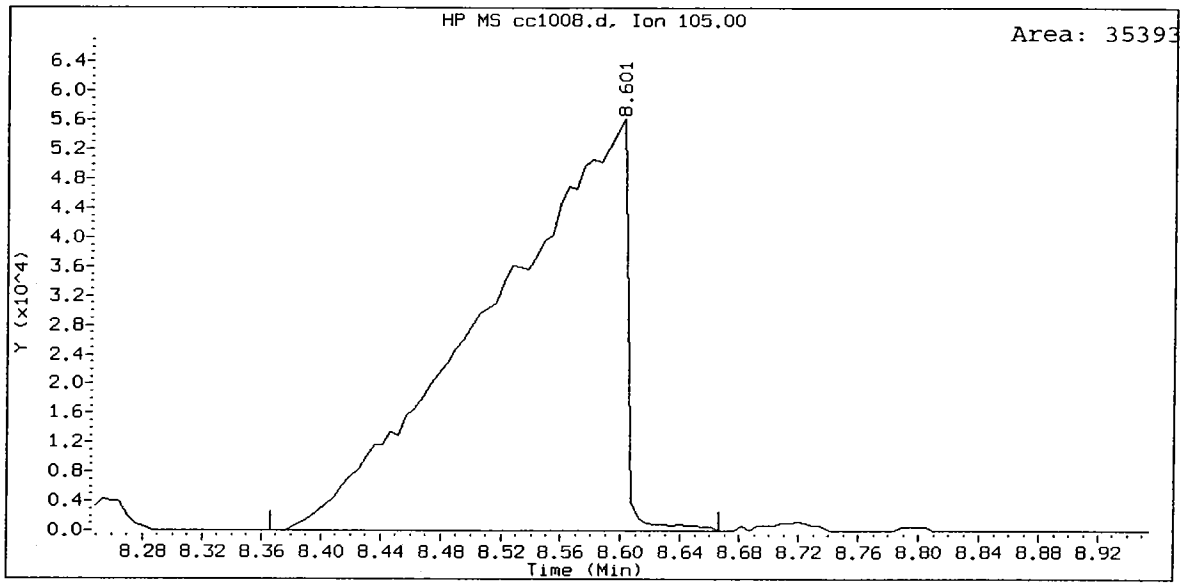
ABN 25, /chem1/nt6.i/20081008.b/cc1008.d
Benzyl alcohol Amount: 20.37

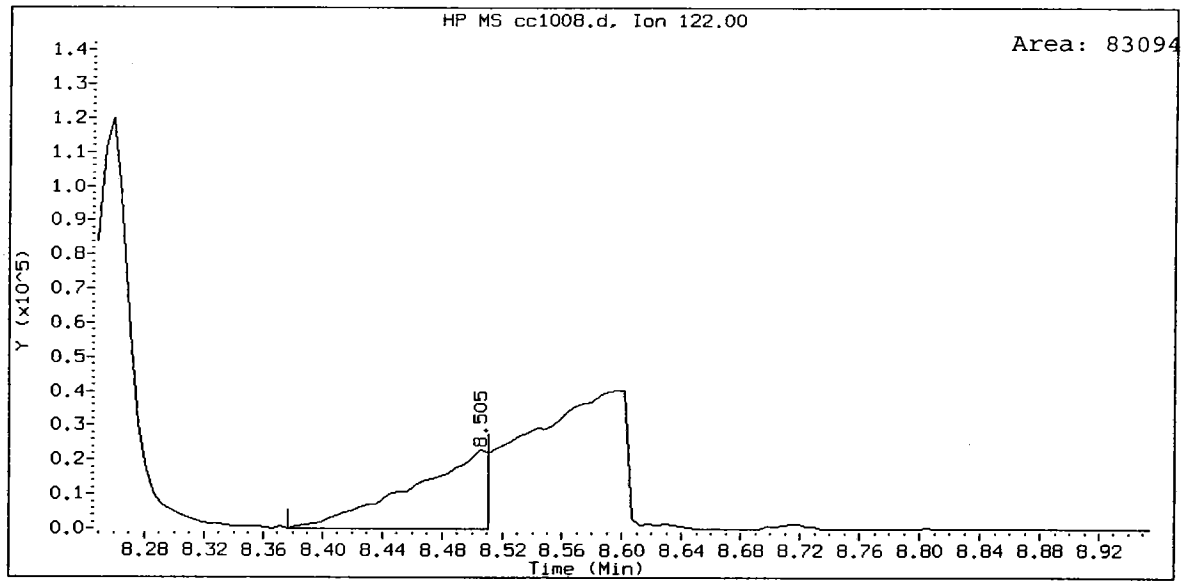


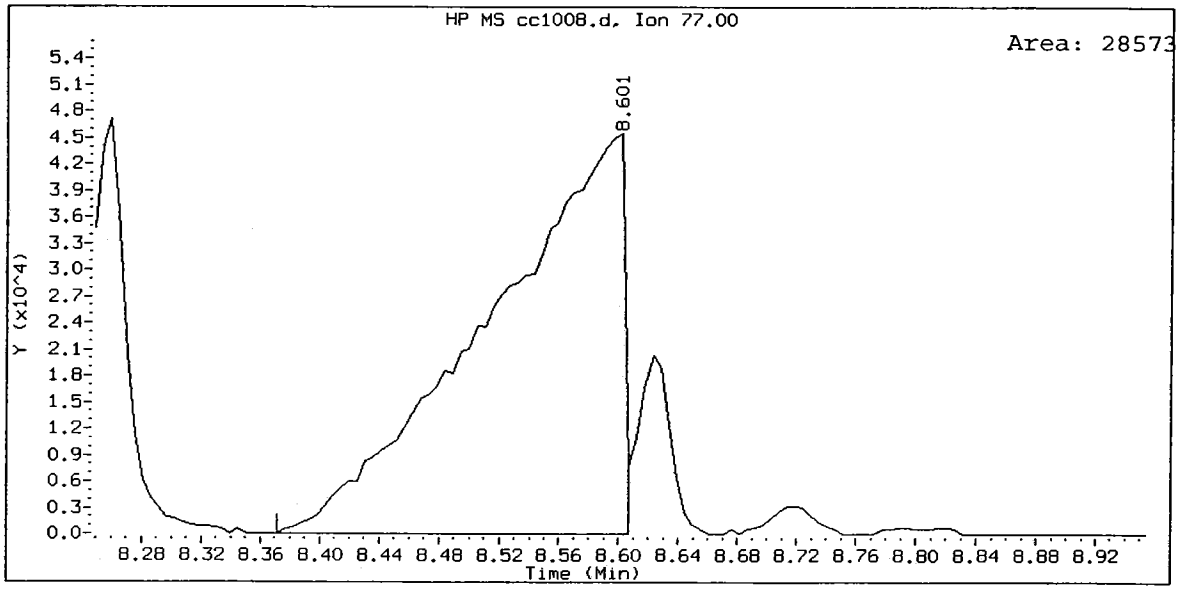




ABN 25, /chem1/nt6.i/20081008.b/cc1008.d
Benzoic acid Amount: 45.63







Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem1/nt6.i/20081008.b/ddt.b/cc1008.d
Method: /chem1/nt6.i/20081008.b/ddt.b/sw846ddt.m
Analysis Date: 08-OCT-2008 12:09

ARI ID:
Misc:
Instrument: nt6.i

LJK 10/9/08

COMPOUND	RT	AREA
Pentachlorophenol	13.591	66654
Benzidine	15.968	156045
4,4'-DDE	----	----
4,4'-DDD	16.892	8124
4,4'-DDT	17.346	116152

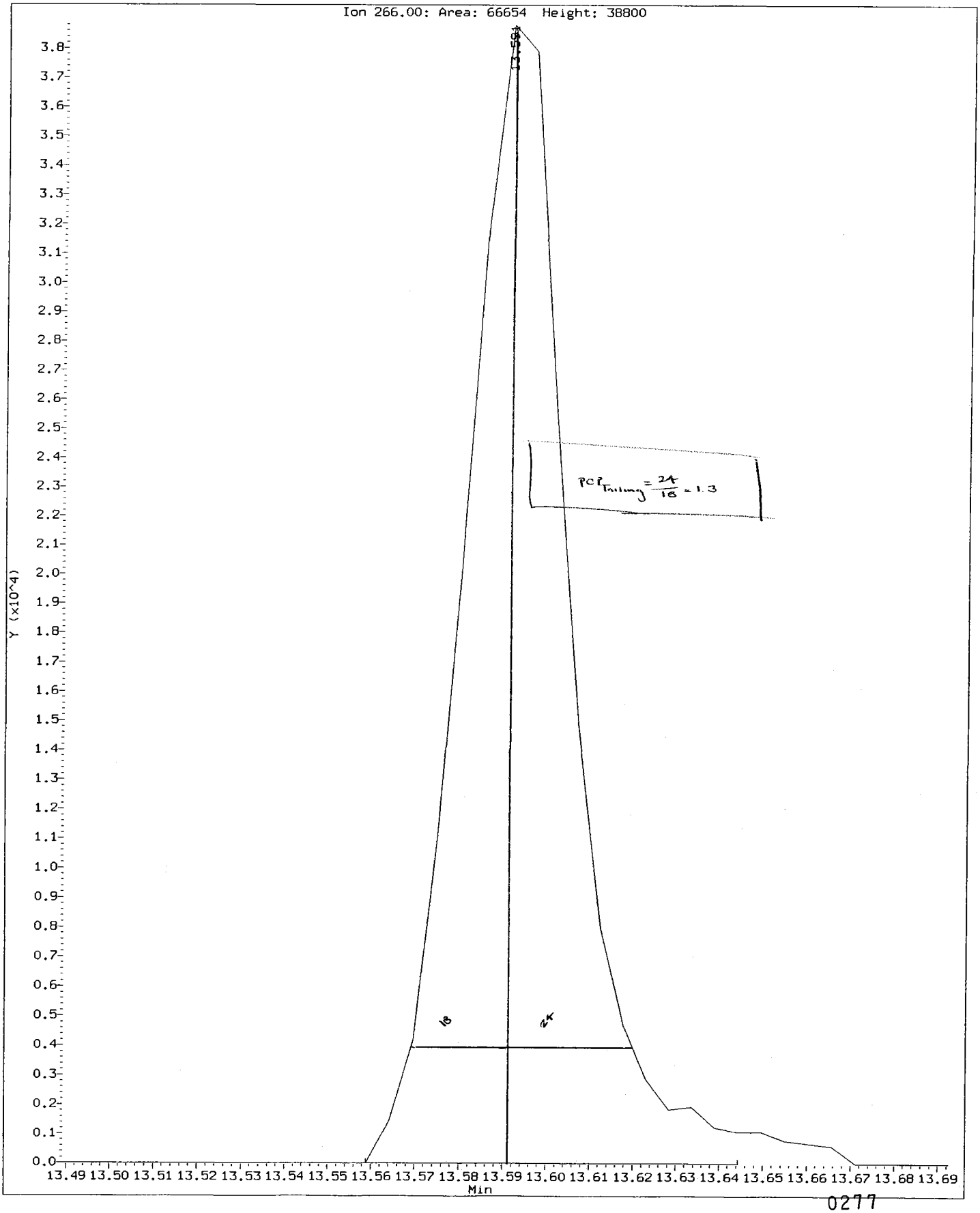
$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(0 + 8124) * 100}{(0 + 8124 + 116152)}$$

DDT Percent Breakdown = 6.5 %

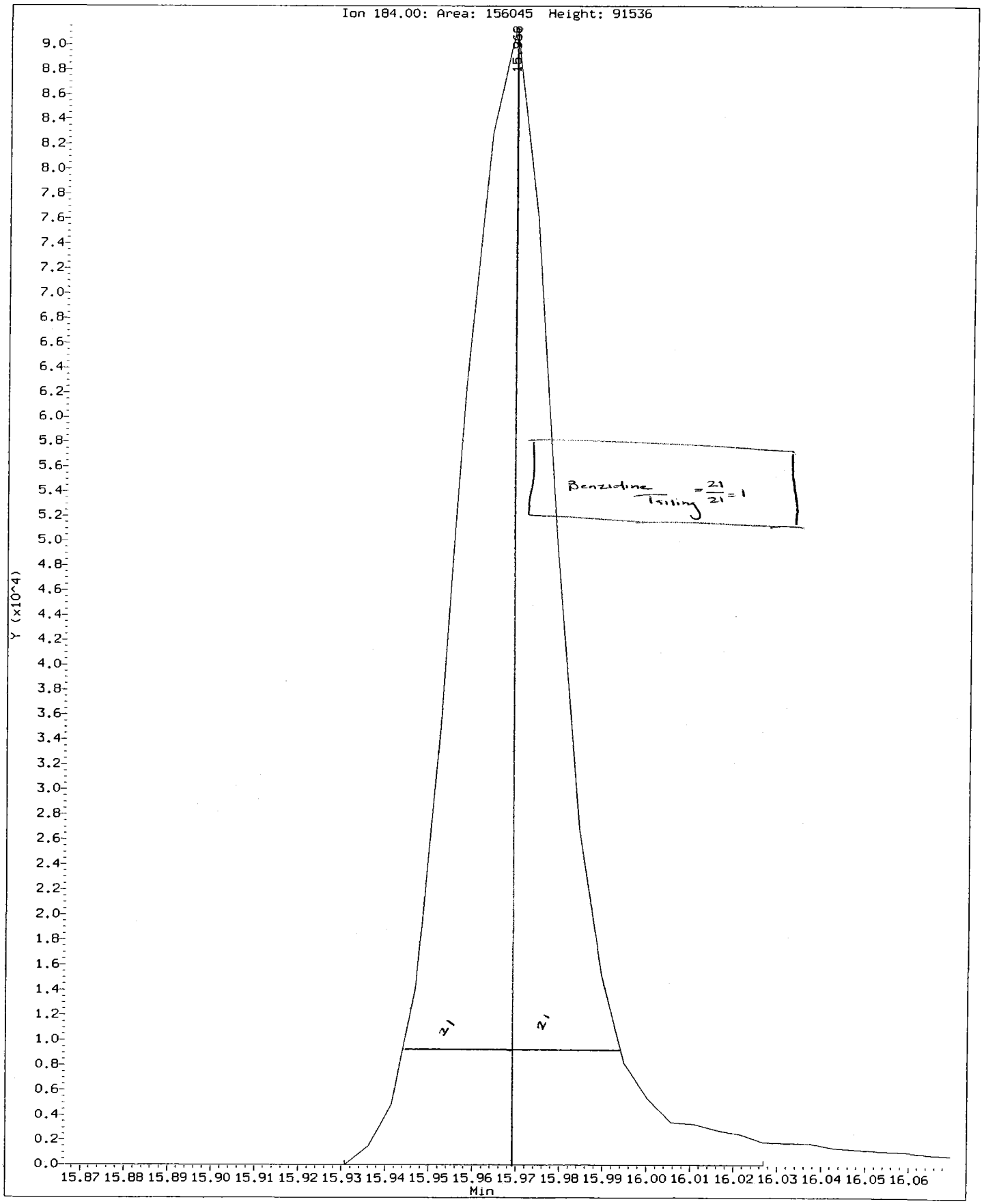
Data File: /chem1/nt6.i/20081008.b/ddt.b/cc1008.d
Injection Date: 08-OCT-2008 12:09
Instrument: nt6.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem1/nt6.i/20081008.b/ddt.b/cc1008.d
Injection Date: 08-OCT-2008 12:09
Instrument: nt6.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Semivolatile Organics
QC Raw Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NOS: NS52

prepared
by

Analytical Resources, Inc.

Data File: /chem1/nt6.i/20080915.b/tune.b/0250915.d

Date : 15-SEP-2008 11:35

Client ID:

Instrument: nt6.i

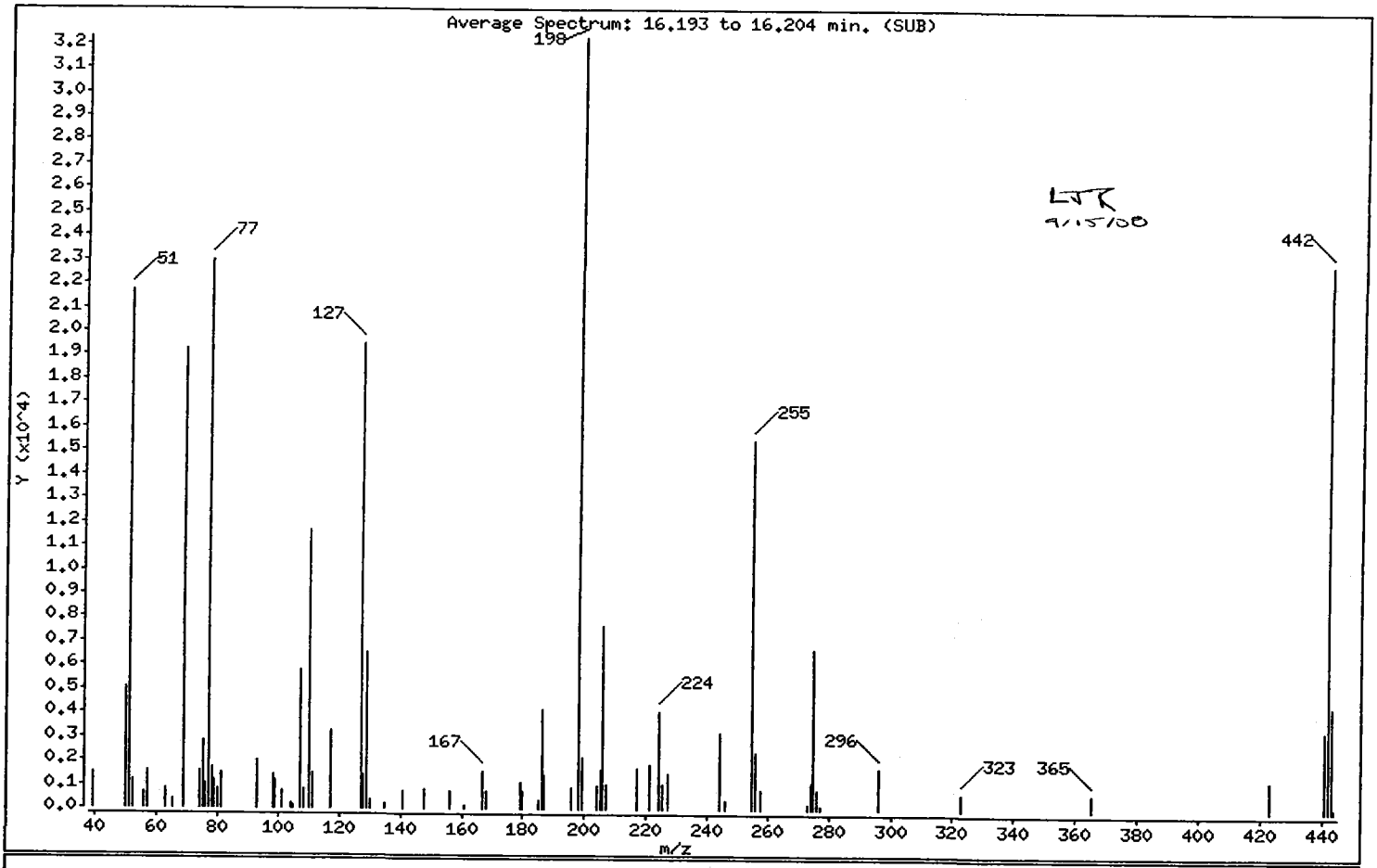
Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	67.17
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	59.63
70	Less than 2.00% of mass 69	0.00 (0.00)
127	25.00 - 75.00% of mass 198	60.42
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.62
275	10.00 - 30.00% of mass 198	20.66
365	Greater than 0.75% of mass 198	2.06
441	Present, but less than mass 443	10.34
442	40.00 - 110.00% of mass 198	70.92
443	15.00 - 24.00% of mass 442	13.56 (19.13)

Data File: /chem1/nt6.i/20080915.b/tune.b/0250915.d

Date : 15-SEP-2008 11:35

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: 0250915.d
Spectrum: Average Spectrum: 16.193 to 16.204 min. (SUB)
Location of Maximum: 198.00
Number of points: 74

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1455	99.00	1188	168.00	711	246.00	379
50.00	5043	101.00	738	179.00	1101	255.00	15482
51.00	21680	104.00	192	180.00	750	256.00	2387
52.00	1189	105.00	170	185.00	400	258.00	792
56.00	700	107.00	5811	186.00	4137	273.00	188
57.00	1565	108.00	849	187.00	1388	274.00	1116
63.00	843	110.00	11646	196.00	888	275.00	6669
65.00	373	111.00	1453	198.00	32272	276.00	823
69.00	19248	117.00	3301	199.00	2138	277.00	178
74.00	1569	127.00	19496	204.00	941	296.00	1687
75.00	2800	128.00	1449	205.00	1672	323.00	673
76.00	1075	129.00	6560	206.00	7663	365.00	664
77.00	22952	130.00	404	207.00	1056	423.00	1264
78.00	1707	135.00	256	217.00	1727	441.00	3338
79.00	1218	141.00	719	221.00	1870	442.00	22888
80.00	831	148.00	795	224.00	4116	443.00	4378
81.00	1465	156.00	762	225.00	1028	444.00	185
93.00	1980	161.00	181	227.00	1509		
98.00	1425	167.00	1581	244.00	3214		

Data File: /chem1/nt6.i/20080915.b/tune.b/0250915.d

Date : 15-SEP-2008 11:35

Client ID:

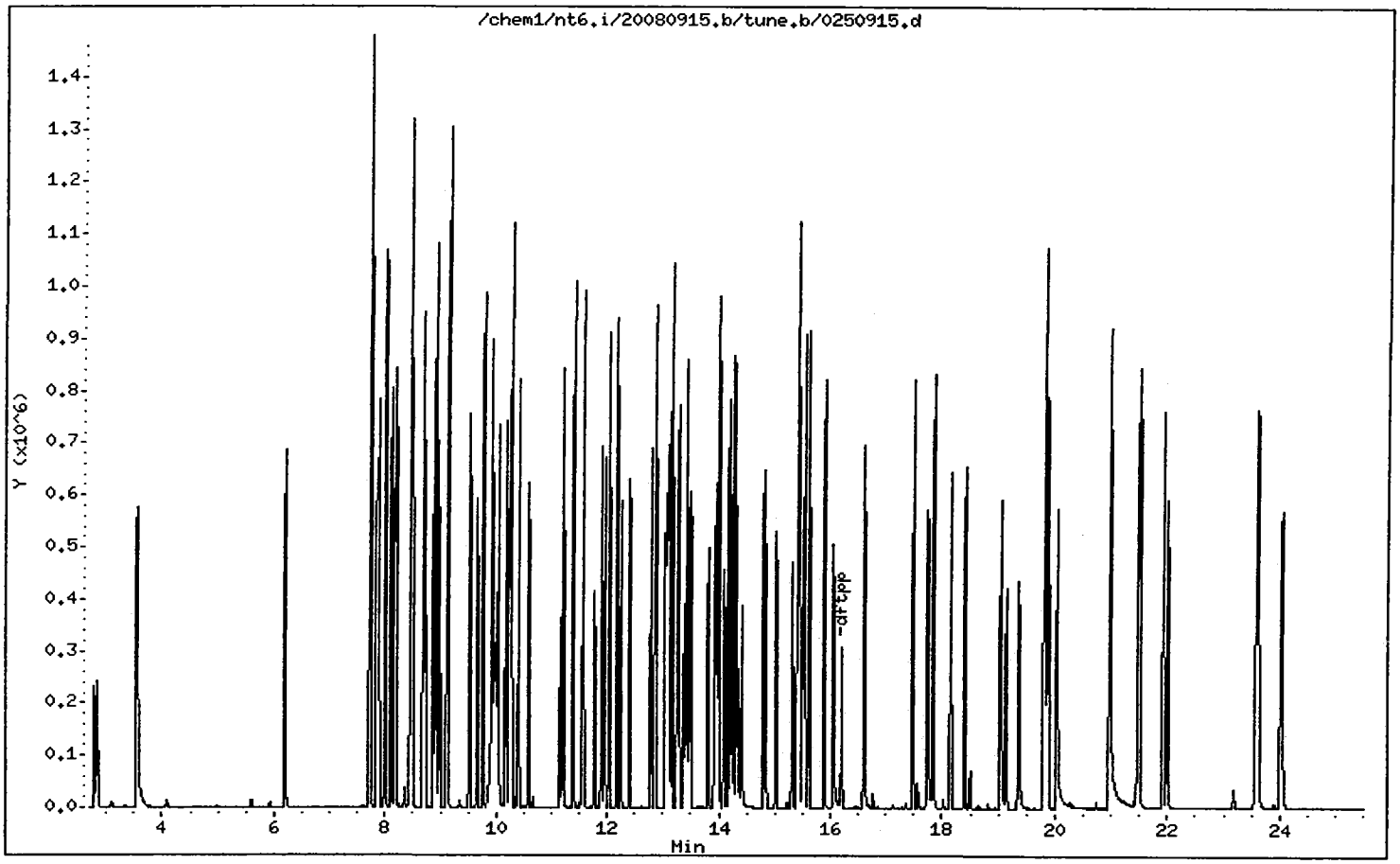
Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32



Data File: /chem1/nt6.i/20081008.b/tune.b/cc1008.d

Date : 08-OCT-2008 12:09

Client ID:

Instrument: nt6.i

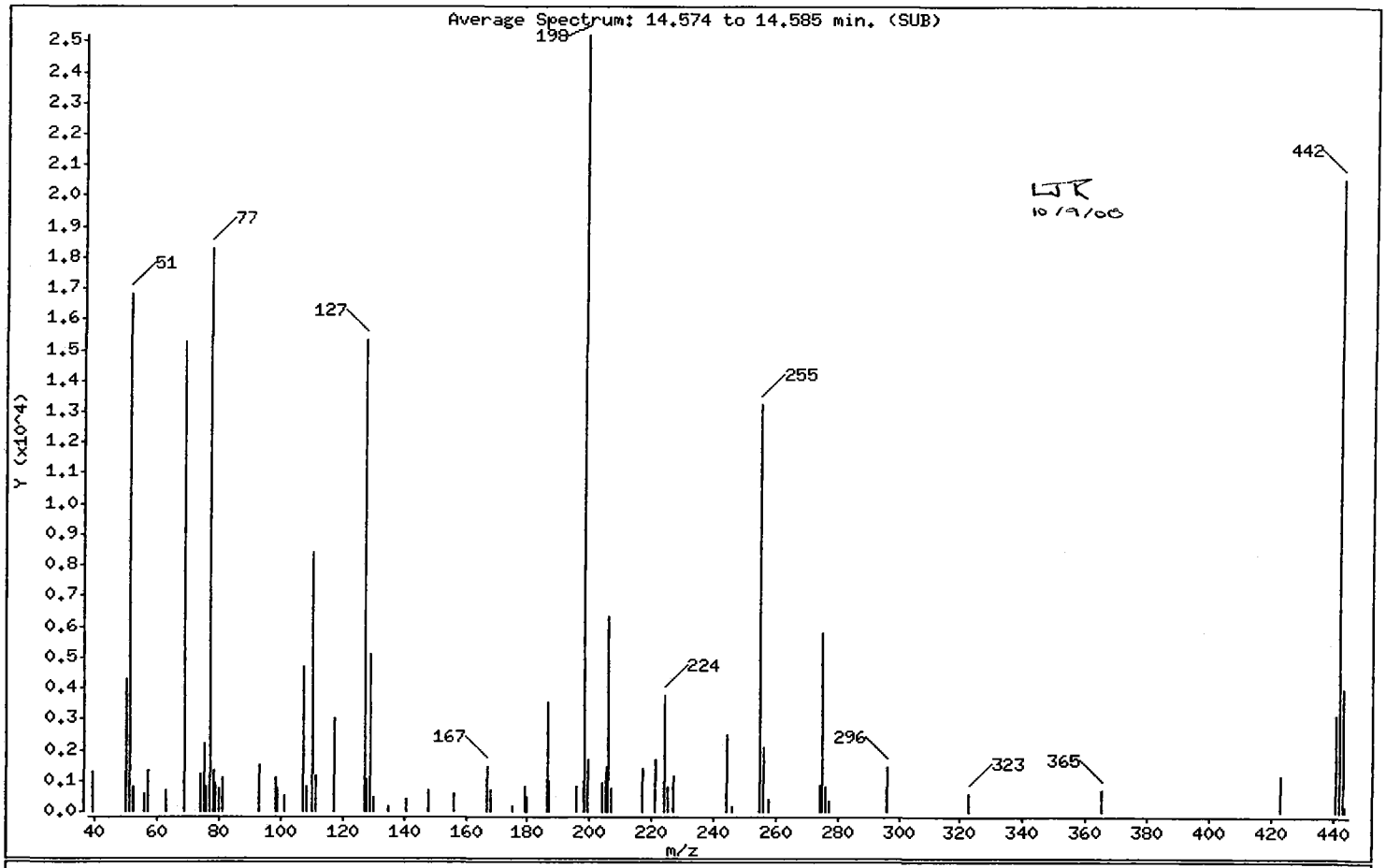
Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	66.73
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	60.51
70	Less than 2.00% of mass 69	0.00 (0.00)
127	25.00 - 75.00% of mass 198	60.83
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.59
275	10.00 - 30.00% of mass 198	22.95
365	Greater than 0.75% of mass 198	2.86
441	Present, but less than mass 443	12.38
442	40.00 - 110.00% of mass 198	81.59
443	15.00 - 24.00% of mass 442	15.99 (19.60)

Data File: /chem1/nt6.i/20081008.b/tune.b/cc1008.d

Date : 08-OCT-2008 12:09

Client ID:

Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32

Data File: cc1008.d
Spectrum: Average Spectrum: 14.574 to 14.585 min. (SUB)
Location of Maximum: 198.00
Number of points: 69

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1261	99.00	757	179.00	815	255.00	13231
50.00	4284	101.00	539	180.00	437	256.00	2109
51.00	16808	107.00	4714	186.00	3535	258.00	393
52.00	803	108.00	801	187.00	985	274.00	890
56.00	580	110.00	8411	196.00	784	275.00	5781
57.00	1316	111.00	1185	198.00	25192	276.00	833
63.00	702	117.00	3028	199.00	1660	277.00	342
69.00	15243	127.00	15325	204.00	914	296.00	1463
74.00	1213	128.00	1070	205.00	1475	323.00	586
75.00	2204	129.00	5107	206.00	6336	365.00	720
76.00	831	130.00	460	207.00	759	423.00	1187
77.00	18264	135.00	175	217.00	1384	441.00	3119
78.00	1312	141.00	427	221.00	1686	442.00	20552
79.00	918	148.00	709	224.00	3765	443.00	4029
80.00	775	156.00	564	225.00	821	444.00	185
81.00	1120	167.00	1424	227.00	1175		
93.00	1497	168.00	725	244.00	2513		
98.00	1084	175.00	167	246.00	197		

Data File: /chem1/nt6.i/20081008.b/tune.b/cc1008.d

Date : 08-OCT-2008 12:09

Client ID:

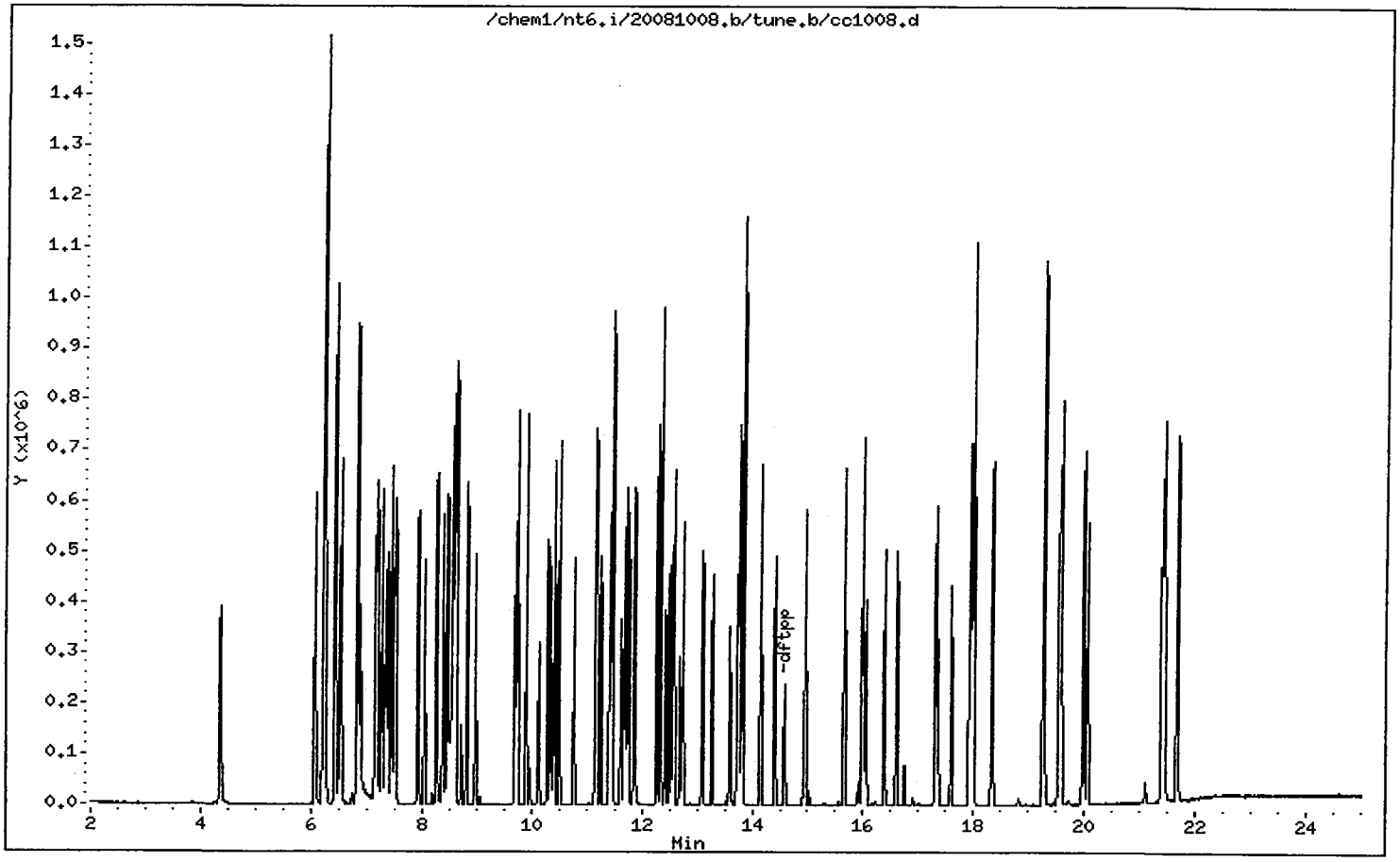
Instrument: nt6.i

Sample Info: ABN 25

Operator: LJR

Column phase: RTX-5

Column diameter: 0.32



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: MB-100708
METHOD BLANK

Lab Sample ID: MB-100708
LIMS ID: 08-26288
Matrix: Sediment
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 12:43
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 25.0 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	< 20 U
541-73-1	1,3-Dichlorobenzene	20	< 20 U
106-46-7	1,4-Dichlorobenzene	20	< 20 U
100-51-6	Benzyl Alcohol	20	< 20 U
95-50-1	1,2-Dichlorobenzene	20	< 20 U
95-48-7	2-Methylphenol	20	< 20 U
106-44-5	4-Methylphenol	20	< 20 U
105-67-9	2,4-Dimethylphenol	20	< 20 U
65-85-0	Benzoic Acid	200	< 200 U
120-82-1	1,2,4-Trichlorobenzene	20	< 20 U
91-20-3	Naphthalene	20	< 20 U
87-68-3	Hexachlorobutadiene	20	< 20 U
91-57-6	2-Methylnaphthalene	20	< 20 U
131-11-3	Dimethylphthalate	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
132-64-9	Dibenzofuran	20	< 20 U
84-66-2	Diethylphthalate	20	< 20 U
86-73-7	Fluorene	20	< 20 U
86-30-6	N-Nitrosodiphenylamine	20	< 20 U
118-74-1	Hexachlorobenzene	20	< 20 U
87-86-5	Pentachlorophenol	100	< 100 U
85-01-8	Phenanthrene	20	< 20 U
120-12-7	Anthracene	20	< 20 U
84-74-2	Di-n-Butylphthalate	20	< 20 U
206-44-0	Fluoranthene	20	< 20 U
129-00-0	Pyrene	20	< 20 U
85-68-7	Butylbenzylphthalate	20	< 20 U
56-55-3	Benzo(a)anthracene	20	< 20 U
117-81-7	bis(2-Ethylhexyl)phthalate	20	< 20 U
218-01-9	Chrysene	20	< 20 U
117-84-0	Di-n-Octyl phthalate	20	< 20 U
205-99-2	Benzo(b)fluoranthene	20	< 20 U
207-08-9	Benzo(k)fluoranthene	20	< 20 U
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U
90-12-0	1-Methylnaphthalene	20	< 20 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: MB-100708
METHOD BLANK

Lab Sample ID: MB-100708
LIMS ID: 08-26288
Matrix: Sediment
Date Analyzed: 10/08/08 12:43

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02

CAS Number	Analyte	RL	Result

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	65.6%	2-Fluorobiphenyl	69.6%
d14-p-Terphenyl	83.2%	d4-1,2-Dichlorobenzene	66.8%
d5-Phenol	72.5%	2-Fluorophenol	66.7%
2,4,6-Tribromophenol	84.5%	d4-2-Chlorophenol	70.1%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20081008.b/ns52mb.d
Lab Smp Id: NS52MBS1 Client Smp ID: NS52MBS1
Inj Date : 08-OCT-2008 12:43
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : NS52MBS1
Misc Info : 08-26288
Comment : 1ul Injection
Method : /chem1/nt6.i/20081008.b/SW846.m
Meth Date : 09-Oct-2008 09:21 jeff Quant Type: ISTD
Cal Date : 15-SEP-2008 14:30 Cal File: 0100915.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDAMBLCS.sub
Target Version: 3.50

LJR 10/9/08

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	1 2-Fluorophenol	112	4.391	4.354	(0.675)	243072	24.9587	499.2
$	2 Phenol-d5	99	6.213	6.213	(0.955)	335702	27.1700	543.4
	3 Phenol	94	Compound Not Detected.					
$	5 2-Chlorophenol-d4	132	6.213	6.213	(0.955)	199277	26.3412	526.8
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	6.507	6.513	(1.000)	121345	20.0000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	6.811	6.817	(1.047)	90837	16.6925	333.8
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.485	7.496	(0.872)	183277	16.3766	327.5
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	8.585	8.596	(1.000)	443238	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	141	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	10.412	10.418	(0.912)	268837	17.3586	347.2
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	11.411	11.417	(1.000)	227190	20.0000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	12.688	12.688	(1.112)	64028	31.6956	633.9
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	13.724	13.730	(1.000)	321172	20.0000	
	60 Phenanthrene	178	Compound Not Detected.					
	61 Anthracene	178	Compound Not Detected.					
	62 Carbazole	167	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	63 Di-n-butylphthalate	149	Compound Not Detected.					
	64 Fluoranthene	202	Compound Not Detected.					
	65 Pyrene	202	Compound Not Detected.					
$	66 Terphenyl-d14	244	16.374	16.380	(0.912)	309317	20.7873	415.7
	67 Butylbenzylphthalate	149	Compound Not Detected.					
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	17.945	17.955	(1.000)	321825	20.0000	
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	Compound Not Detected.					
	72 bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.					
*	134 Di-n-octylphthalate-d4	153	19.259	19.264	(1.000)	554954	20.0000	
	73 Di-n-octylphthalate	149	Compound Not Detected.					
	74 Benzo(b)fluoranthene	252	Compound Not Detected.					
	75 Benzo(k)fluoranthene	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	20.049	20.055	(1.000)	327598	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	Compound Not Detected.					
	105 1-methylnaphthalene	141	Compound Not Detected.					
	111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: ns52mb.d
Lab Smp Id: NS52MBS1
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20081008.b/SW846.m
Misc Info: 08-26288

Calibration Date: 08-OCT-2008
Calibration Time: 12:09
Client Smp ID: NS52MBS1
Level: LOW
Sample Type: Solid

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	118976	59488	237952	121345	1.99
27 Naphthalene-d8	414286	207143	828572	443238	6.99
42 Acenaphthene-d10	208588	104294	417176	227190	8.92
59 Phenanthrene-d10	283346	141673	566692	321172	13.35
69 Chrysene-d12	273753	136876	547506	321825	17.56
134 Di-n-octylphthala	485719	242860	971438	554954	14.25
77 Perylene-d12	342905	171452	685810	327598	-4.46

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.51	6.01	7.01	6.51	-0.09
27 Naphthalene-d8	8.60	8.10	9.10	8.59	-0.13
42 Acenaphthene-d10	11.42	10.92	11.92	11.41	-0.05
59 Phenanthrene-d10	13.73	13.23	14.23	13.72	-0.04
69 Chrysene-d12	17.96	17.46	18.46	17.94	-0.06
134 Di-n-octylphthala	19.26	18.76	19.76	19.26	-0.03
77 Perylene-d12	20.05	19.55	20.55	20.05	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: NS52MBS1
Level: LOW
Data Type: MS DATA
SpikeList File: SEPLCS.spk
Sublist File: PSDDAMBLCS.sub
Method File: /chem1/nt6.i/20081008.b/SW846.m
Misc Info: 08-26288

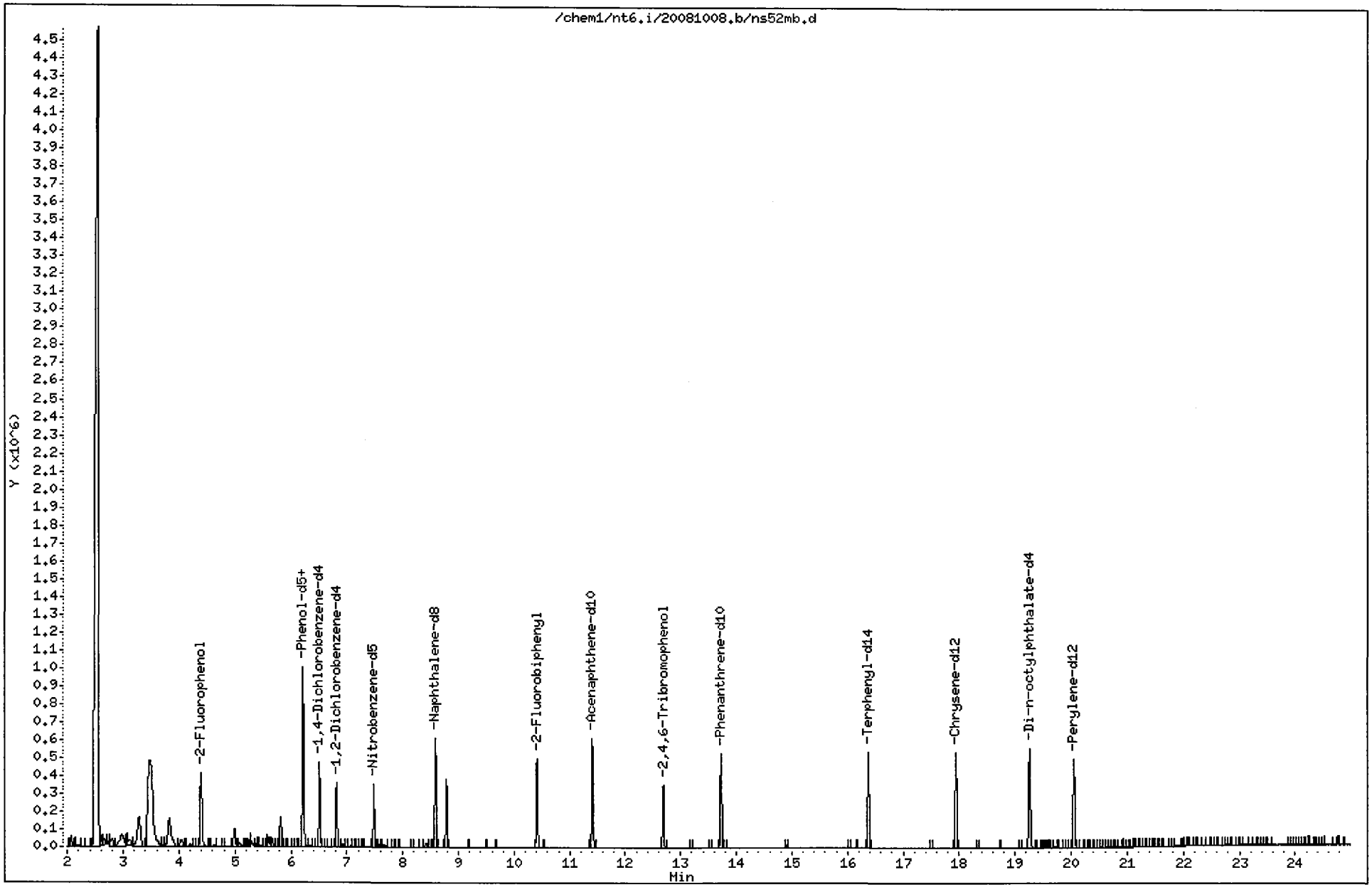
Client SDG: NS52
Fraction: SV
Client Smp ID: NS52MBS1
Operator: LJR/VTS
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	750.0	499.2	66.56	11-106
$ 2 Phenol-d5	750.0	543.4	72.45	31-91
$ 5 2-Chlorophenol-d4	750.0	526.8	70.24	32-91
$ 10 1,2-Dichlorobenzen	500.0	333.8	66.77	35-85
$ 18 Nitrobenzene-d5	500.0	327.5	65.51	34-91
$ 36 2-Fluorobiphenyl	500.0	347.2	69.43	37-94
$ 55 2,4,6-Tribromophen	750.0	633.9	84.52	25-117
$ 66 Terphenyl-d14	500.0	415.7	83.15	39-105

Data File: /chem1/nt6.i/20081008.b/ns52mb.d
Date : 08-OCT-2008 12:43
Client ID: NS52MBS1
Sample Info: NS52MBS1
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32

0293



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: EB-SE03-A-081003
MATRIX SPIKE

Lab Sample ID: NS52C
LIMS ID: 08-26288
Matrix: Sediment
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 21:10
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 45.1%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	---
541-73-1	1,3-Dichlorobenzene	20	---
106-46-7	1,4-Dichlorobenzene	20	---
100-51-6	Benzyl Alcohol	20	---
95-50-1	1,2-Dichlorobenzene	20	---
95-48-7	2-Methylphenol	20	---
106-44-5	4-Methylphenol	20	---
105-67-9	2,4-Dimethylphenol	20	---
65-85-0	Benzoic Acid	200	---
120-82-1	1,2,4-Trichlorobenzene	20	---
91-20-3	Naphthalene	20	---
87-68-3	Hexachlorobutadiene	20	---
91-57-6	2-Methylnaphthalene	20	---
131-11-3	Dimethylphthalate	20	---
208-96-8	Acenaphthylene	20	---
83-32-9	Acenaphthene	20	---
132-64-9	Dibenzofuran	20	---
84-66-2	Diethylphthalate	20	---
86-73-7	Fluorene	20	---
86-30-6	N-Nitrosodiphenylamine	20	---
118-74-1	Hexachlorobenzene	20	---
87-86-5	Pentachlorophenol	98	---
85-01-8	Phenanthrene	20	---
120-12-7	Anthracene	20	---
84-74-2	Di-n-Butylphthalate	20	---
206-44-0	Fluoranthene	20	---
129-00-0	Pyrene	20	---
85-68-7	Butylbenzylphthalate	20	---
56-55-3	Benzo(a)anthracene	20	---
117-81-7	bis(2-Ethylhexyl)phthalate	20	---
218-01-9	Chrysene	20	---
117-84-0	Di-n-Octyl phthalate	20	---
205-99-2	Benzo(b)fluoranthene	20	---
207-08-9	Benzo(k)fluoranthene	20	---
50-32-8	Benzo(a)pyrene	20	---
193-39-5	Indeno(1,2,3-cd)pyrene	20	---
53-70-3	Dibenz(a,h)anthracene	20	---
191-24-2	Benzo(g,h,i)perylene	20	---
90-12-0	1-Methylnaphthalene	20	---

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: EB-SE03-A-081003
MATRIX SPIKE

Lab Sample ID: NS52C
LIMS ID: 08-26288
Matrix: Sediment
Date Analyzed: 10/08/08 21:10

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02

CAS Number	Analyte	RL	Result

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	64.4%	2-Fluorobiphenyl	69.6%
d14-p-Terphenyl	80.4%	d4-1,2-Dichlorobenzene	61.2%
d5-Phenol	71.7%	2-Fluorophenol	64.8%
2,4,6-Tribromophenol	90.7%	d4-2-Chlorophenol	67.7%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20081008.b/ns52cms.d
Lab Smp Id: NS52CMS Client Smp ID: EB-SE03-A-08100 MS
Inj Date : 08-OCT-2008 21:10
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : NS52CMS
Misc Info : 08-26288
Comment : 1ul Injection
Method : /chem1/nt6.i/20081008.b/SW846.m
Meth Date : 09-Oct-2008 09:21 jeff Quant Type: ISTD
Cal Date : 15-SEP-2008 14:30 Cal File: 0100915.d
Als bottle: 16 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 10/1/08

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	46.40000	Weight of sample extracted (g)
M	45.10000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	1 2-Fluorophenol	112	4.395	4.354	(0.675)	243084	24.3151	477.3
$	2 Phenol-d5	99	6.227	6.213	(0.956)	342000	26.9421	528.8
	3 Phenol	94	6.243	6.235	(0.959)	254271	16.5340	324.5
$	5 2-Chlorophenol-d4	132	6.222	6.213	(0.956)	197967	25.3971	498.5
	4 Bis(2-Chloroethyl)ether	93	6.238	6.235	(0.958)	238662	20.0771	394.1
	6 2-Chlorophenol	128	6.248	6.240	(0.960)	161136	16.1554	317.1
	7 1,3-Dichlorobenzene	146	6.435	6.443	(0.988)	155181	15.5551	305.3
*	8 1,4-Dichlorobenzene-d4	152	6.510	6.513	(1.000)	124563	20.0000	
	9 1,4-Dichlorobenzene	146	6.537	6.539	(1.004)	156853	15.8157	310.4
$	10 1,2-Dichlorobenzene-d4	152	6.815	6.817	(1.047)	86703	15.3432	301.2
	12 1,2-Dichlorobenzene	146	6.836	6.838	(1.050)	152753	16.2549	319.1
	11 Benzyl alcohol	108	6.916	6.881	(1.062)	136861	16.5374	324.6 (RM)
	14 2,2'-oxybis(1-Chloropropane)	45	7.146	7.154	(1.098)	290218	15.3603	301.5
	13 2-Methylphenol	108	7.194	7.186	(1.105)	182277	17.2766	339.1
	17 Hexachloroethane	117	7.333	7.335	(1.126)	68626	15.0963	296.3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	7.376	7.378	(1.133)	138496	16.5447	324.7
	15 4-Methylphenol	108	7.445	7.431	(1.144)	376657	34.7634	682.3
$	18 Nitrobenzene-d5	82	7.488	7.496	(0.871)	176513	16.0900	315.8
	19 Nitrobenzene	77	7.520	7.522	(0.875)	201096	18.3955	361.1
	20 Isophorone	82	7.931	7.928	(0.923)	373322	19.2849	378.5
	21 2-Nitrophenol	139	8.043	8.046	(0.936)	93267	19.2624	378.1
	22 2,4-Dimethylphenol	107	8.262	8.259	(0.961)	183618	18.7680	368.4
	23 Bis(2-Chloroethoxy)methane	93	8.380	8.382	(0.975)	228465	17.6825	347.1
	24 Benzoic acid	105	8.599	8.601	(1.001)	344142	42.3018	830.3(M)
	25 2,4-Dichlorophenol	162	8.460	8.457	(0.984)	137616	21.9030	429.9
	26 1,2,4-Trichlorobenzene	180	8.551	8.553	(0.995)	122839	18.3546	360.3
*	27 Naphthalene-d8	136	8.594	8.596	(1.000)	434483	20.0000	
	28 Naphthalene	128	8.620	8.623	(1.003)	453775	18.8717	370.4
	29 4-Chloroaniline	127	8.845	8.820	(1.029)	167902	16.0242	314.5(RM)
	30 Hexachlorobutadiene	225	8.978	8.975	(1.045)	66759	18.8433	369.9
	31 4-Chloro-3-methylphenol	107	9.710	9.702	(1.130)	173941	22.1807	435.4
	32 2-Methylnaphthalene	141	9.742	9.745	(1.134)	262523	21.7851	427.6
	33 Hexachlorocyclopentadiene	237	10.137	10.135	(0.888)	141206	37.3607	733.3
	34 2,4,6-Trichlorophenol	196	10.292	10.295	(0.901)	94471	19.0359	373.6
	35 2,4,5-Trichlorophenol	196	10.356	10.348	(0.907)	111700	21.3166	418.4
$	36 2-Fluorobiphenyl	172	10.415	10.418	(0.912)	283122	17.4170	341.9
	37 2-Chloronaphthalene	162	10.506	10.503	(0.920)	288455	17.8413	350.2
	38 2-Nitroaniline	65	10.778	10.776	(0.944)	136060	20.4298	401.0
	39 Dimethylphthalate	163	11.190	11.187	(0.980)	365469	21.6120	424.2
	40 Acenaphthylene	152	11.158	11.160	(0.977)	491331	20.1071	394.7
	41 2,6-Dinitrotoluene	165	11.265	11.262	(0.986)	80061	21.8921	429.7
*	42 Acenaphthene-d10	164	11.419	11.417	(1.000)	238491	20.0000	
	43 3-Nitroaniline	138	11.457	11.449	(1.003)	134426	31.0979	610.4(R)
	44 Acenaphthene	153	11.468	11.465	(1.004)	287023	18.0916	355.1
	45 2,4-Dinitrophenol	184	11.617	11.614	(1.017)	106583	51.5987	1013
	46 Dibenzofuran	168	11.724	11.727	(1.027)	415309	21.0227	412.6
	47 4-Nitrophenol	109	11.868	11.855	(1.039)	54280	20.2675	397.8(M)
	48 2,4-Dinitrotoluene	165	11.868	11.865	(1.039)	106694	21.7618	427.1
	50 Diethylphthalate	149	12.333	12.341	(1.080)	330245	18.9084	371.1
	49 Fluorene	166	12.269	12.271	(1.074)	357715	22.4317	440.3
	51 4-Chlorophenyl-phenylether	204	12.338	12.341	(1.080)	138695	20.1587	395.7
	52 4-Nitroaniline	138	12.429	12.426	(1.088)	65184	13.7130	269.2
	53 4,6-Dinitro-2-methylphenol	198	12.504	12.501	(0.911)	145759	52.2752	1026
	54 N-Nitrosodiphenylamine	169	12.557	12.555	(0.914)	229157	25.4954	500.4
$	55 2,4,6-Tribromophenol	330	12.696	12.688	(1.112)	72101	34.0007	667.4
	56 4-Bromophenyl-phenylether	248	13.097	13.094	(0.954)	89040	20.6011	404.4
	57 Hexachlorobenzene	284	13.268	13.270	(0.966)	94756	22.8420	448.3
	58 Pentachlorophenol	266	13.599	13.591	(0.990)	66932	21.8924	429.7
*	59 Phenanthrene-d10	188	13.733	13.730	(1.000)	342519	20.0000	
	60 Phenanthrene	178	13.765	13.762	(1.002)	660197	31.3780	615.9(R)
	61 Anthracene	178	13.834	13.837	(1.007)	510692	23.5316	461.9
	62 Carbazole	167	14.155	14.152	(1.031)	475981	24.0015	471.1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
63	Di-n-butylphthalate	149	14.956	14.953	(1.089)	599981	22.4852	441.3
64	Fluoranthene	202	15.661	15.653	(1.140)	870536	45.7596	898.2(R)
65	Pyrene	202	15.992	15.990	(0.891)	913960	40.1775	788.6(R)
$ 66	Terphenyl-d14	244	16.377	16.380	(0.912)	299446	20.0556	393.7
67	Butylbenzylphthalate	149	17.307	17.309	(0.964)	276360	23.1122	453.6
68	Benzo(a)anthracene	228	17.937	17.929	(0.999)	626979	29.9311	587.5(R)
* 69	Chrysene-d12	240	17.958	17.955	(1.000)	322018	20.0000	
70	3,3'-Dichlorobenzidine	252	18.006	17.998	(1.003)	68923	9.46014	185.7(R)
71	Chrysene	228	17.996	17.993	(1.002)	685761	31.8978	626.1(R)
72	bis(2-Ethylhexyl)phthalate	149	18.343	18.340	(0.952)	465095	31.3008	614.4(R)
* 134	Di-n-octylphthalate-d4	153	19.267	19.264	(1.000)	535098	20.0000	
73	Di-n-octylphthalate	149	19.278	19.275	(1.001)	628509	20.5602	403.6
74	Benzo(b)fluoranthene	252	19.566	19.553	(0.975)	667597	36.8588	723.5(R)
75	Benzo(k)fluoranthene	252	19.593	19.585	(0.977)	618613	33.3486	654.6(RM)
76	Benzo(a)pyrene	252	19.983	19.975	(0.996)	483675	27.4295	538.4
* 77	Perylene-d12	264	20.063	20.055	(1.000)	303518	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	21.399	21.390	(1.067)	380519	17.3994	341.5
79	Dibenzo(a,h)anthracene	278	21.436	21.428	(1.068)	290282	15.5229	304.7
80	Benzo(g,h,i)perylene	276	21.682	21.674	(1.081)	290288	14.1679	278.1
90	N-Nitrosodimethylamine	74	Compound Not Detected.					
91	Aniline	93	6.131	6.069	(0.942)	18627	1.11104	21.81(M)
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	Compound Not Detected.					
105	1-methylnaphthalene	141	9.908	9.910	(1.153)	259124	21.6196	424.4
111	Azobenzene (1,2-DP-Hydrazine)	77	12.579	12.581	(1.101)	485782	20.5682	403.7

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: ns52cms.d
Lab Smp Id: NS52CMS
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20081008.b/SW846.m
Misc Info: 08-26288

Calibration Date: 08-OCT-2008
Calibration Time: 12:09
Client Smp ID: EB-SE03-A-08100
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	118976	59488	237952	124563	4.70
27 Naphthalene-d8	414286	207143	828572	434483	4.88
42 Acenaphthene-d10	208588	104294	417176	238491	14.34
59 Phenanthrene-d10	283346	141673	566692	342519	20.88
69 Chrysene-d12	273753	136876	547506	322018	17.63
134 Di-n-octylphthala	485719	242860	971438	535098	10.17
77 Perylene-d12	342905	171452	685810	303518	-11.49

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.51	6.01	7.01	6.51	-0.04
27 Naphthalene-d8	8.60	8.10	9.10	8.59	-0.03
42 Acenaphthene-d10	11.42	10.92	11.92	11.42	0.02
59 Phenanthrene-d10	13.73	13.23	14.23	13.73	0.02
69 Chrysene-d12	17.96	17.46	18.46	17.96	0.02
134 Di-n-octylphthala	19.26	18.76	19.76	19.27	0.01
77 Perylene-d12	20.05	19.55	20.55	20.06	0.04

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: NS52CMS
Level: LOW
Data Type: MS DATA
SpikeList File: SEPLCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20081008.b/SW846.m
Misc Info: 08-26288

Client SDG: NS52
Fraction: SV
Client Smp ID: EB-SE03-A-08100 MS
Operator: LJR/VTS
SampleType: MS
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3	Phenol	490.7	324.5	66.14	10-91
4	Bis(2-Chloroethyl)	490.7	394.1	80.31	51-110
6	2-Chlorophenol	490.7	317.1	64.62	57-104
7	1,3-Dichlorobenzen	490.7	305.3	62.22	20-101
9	1,4-Dichlorobenzen	490.7	310.4	63.26	21-102
11	Benzyl alcohol	981.4	324.6	33.07*	50-94
12	1,2-Dichlorobenzen	490.7	319.1	65.02	24-104
13	2-Methylphenol	490.7	339.1	69.11	49-107
14	2,2'-oxybis(1-Chlo	490.7	301.5	61.44	35-127
15	4-Methylphenol	981.4	682.3	69.53	46-108
16	N-Nitroso-di-n-pro	490.7	324.7	66.18	46-113
17	Hexachloroethane	490.7	296.3	60.39	11-99
19	Nitrobenzene	490.7	361.1	73.58	32-129
20	Isophorone	490.7	378.5	77.14	53-122
21	2-Nitrophenol	490.7	378.1	77.05	61-105
22	2,4-Dimethylphenol	490.7	368.4	75.07	41-98
23	Bis(2-Chloroethoxy	490.7	347.1	70.73	52-112
24	Benzoic acid	1472	830.3	56.40	10-86
25	2,4-Dichlorophenol	490.7	429.9	87.61	62-107
26	1,2,4-Trichloroben	490.7	360.3	73.42	22-105
28	Naphthalene	490.7	370.4	75.49	37-109
29	4-Chloroaniline	1178	314.5	26.71*	60-127
30	Hexachlorobutadien	490.7	369.9	75.37	11-95
31	4-Chloro-3-methylp	490.7	435.4	88.72	58-114
32	2-Methylnaphthalen	490.7	427.6	87.14	37-112
33	Hexachlorocyclopen	1472	733.3	49.81	10-92
34	2,4,6-Trichlorophe	490.7	373.6	76.14	63-112
35	2,4,5-Trichlorophe	490.7	418.4	85.27	60-113
37	2-Chloronaphthalen	490.7	350.2	71.37	38-116
38	2-Nitroaniline	490.7	401.0	81.72	51-125
39	Dimethylphthalate	490.7	424.2	86.45	61-115
40	Acenaphthylene	490.7	394.7	80.43	51-116
41	2,6-Dinitrotoluene	490.7	429.7	87.57	66-115

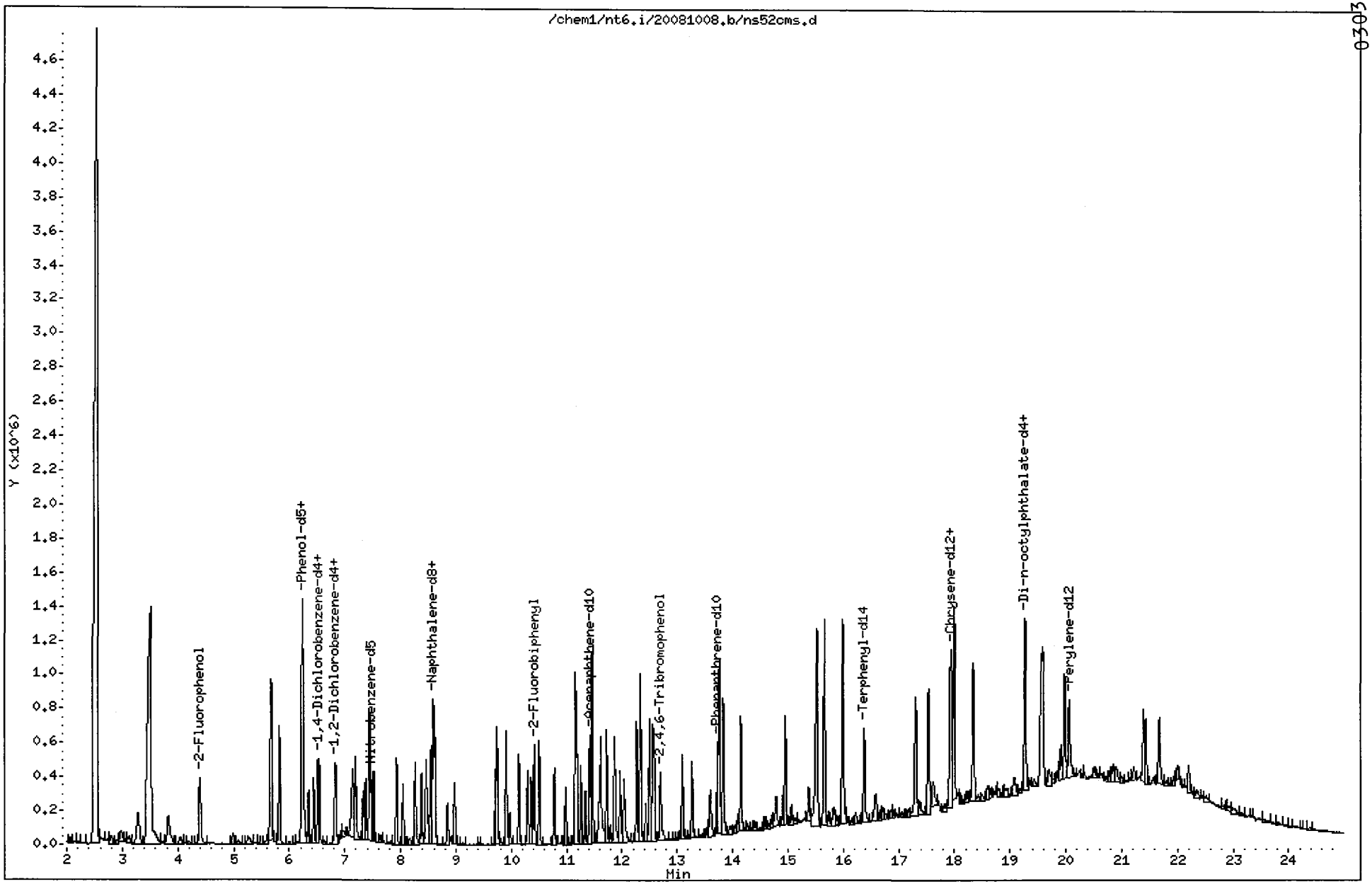
	SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
43	3-Nitroaniline	1256	610.4	48.59*	69-132
44	Acenaphthene	490.7	355.1	72.37	47-116
45	2,4-Dinitrophenol	1472	1013	68.80	10-205
46	Dibenzofuran	490.7	412.6	84.09	52-115
47	4-Nitrophenol	490.7	397.8	81.07	13-96
48	2,4-Dinitrotoluene	490.7	427.1	87.05	65-117
49	Fluorene	490.7	440.3	89.73	56-113
50	Diethylphthalate	490.7	371.1	75.63	65-116
51	4-Chlorophenyl-phe	490.7	395.7	80.63	51-113
52	4-Nitroaniline	490.7	269.2	54.85	52-122
53	4,6-Dinitro-2-meth	1472	1026	69.70	11-150
54	N-Nitrosodiphenyla	490.7	500.4	101.98	60-190
56	4-Bromophenyl-phen	490.7	404.4	82.40	56-112
57	Hexachlorobenzene	490.7	448.3	91.37	59-111
58	Pentachlorophenol	490.7	429.7	OK 87.57	49-127
60	Phenanthrene	490.7	615.9	125.51*	59-115
61	Anthracene	490.7	461.9	94.13	61-113
62	Carbazole	490.7	471.1	96.01	60-115
63	Di-n-butylphthalat	490.7	441.3	89.94	62-123
64	Fluoranthene	490.7	898.2	183.04*	54-124
65	Pyrene	490.7	788.6	160.71*	63-115
67	Butylbenzylphthala	490.7	453.6	92.45	62-121
68	Benzo(a)anthracene	490.7	587.5	119.72*	56-117
70	3,3'-Dichlorobenzi	1256	185.7	14.78*	61-128
71	Chrysene	490.7	626.1	127.59*	56-118
72	bis(2-Ethylhexyl)p	490.7	614.4	125.20*	63-120
73	Di-n-octylphthalat	490.7	403.6	82.24	63-113
74	Benzo(b)fluoranthe	490.7	723.5	147.44*	57-123
75	Benzo(k)fluoranthe	490.7	654.6	133.39*	59-123
76	Benzo(a)pyrene	490.7	538.4	109.72	65-118
78	Indeno(1,2,3-cd)py	490.7	341.5	69.60	45-115
79	Dibenzo(a,h)anthra	490.7	304.7	62.09	57-116
80	Benzo(g,h,i)peryle	490.7	278.1	56.67	49-119

	SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1	2-Fluorophenol	736.1	477.3	64.84	10-114
$ 2	Phenol-d5	736.1	528.8	71.85	29-85
$ 5	2-Chlorophenol-d4	736.1	498.5	67.73	30-84
$ 10	1,2-Dichlorobenzen	490.7	301.2	61.37	25-82
$ 18	Nitrobenzene-d5	490.7	315.8	64.36	29-87
$ 36	2-Fluorobiphenyl	490.7	341.9	69.67	32-88
$ 55	2,4,6-Tribromophen	736.1	667.4	90.67	25-103

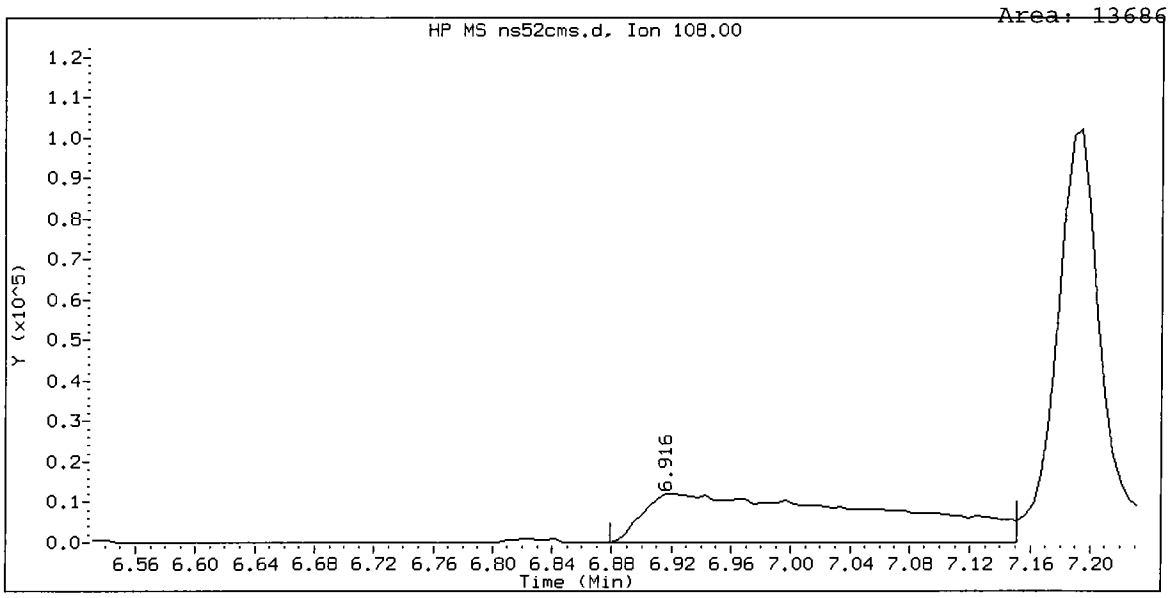
SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 66 Terphenyl-d14	490.7	393.7	80.22	21-97

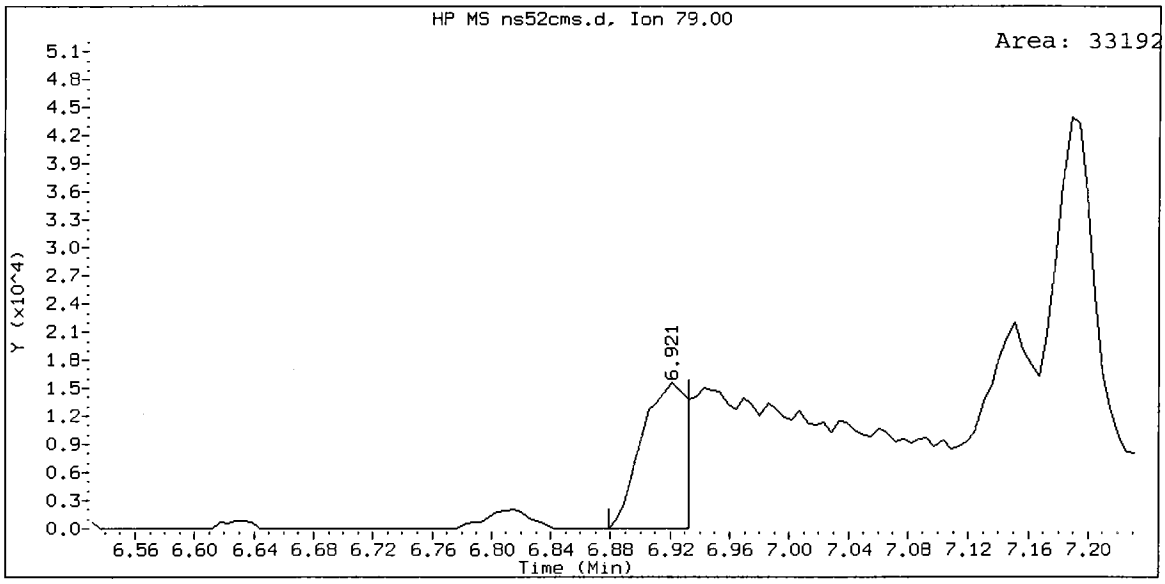
Data File: /chem1/nt6.i/20081008.b/ns52cms.d
Date : 08-OCT-2008 21:10
Client ID: EB-SE03-A-08100 MS
Sample Info: NS52CMS
Volume Injected (uL): 1.0
Column phase: ZB-5

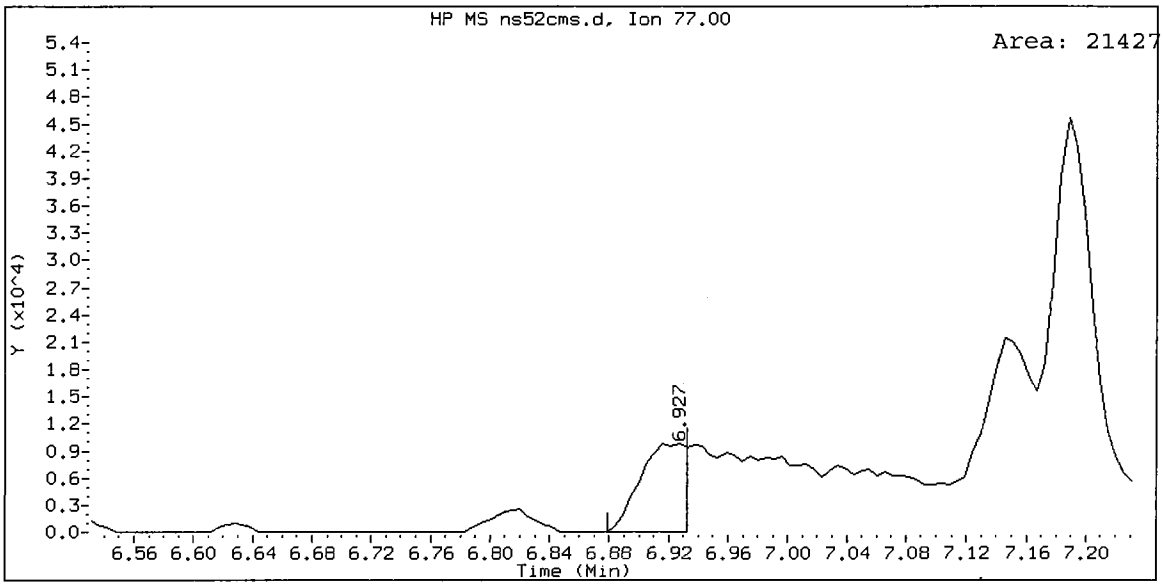
Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32



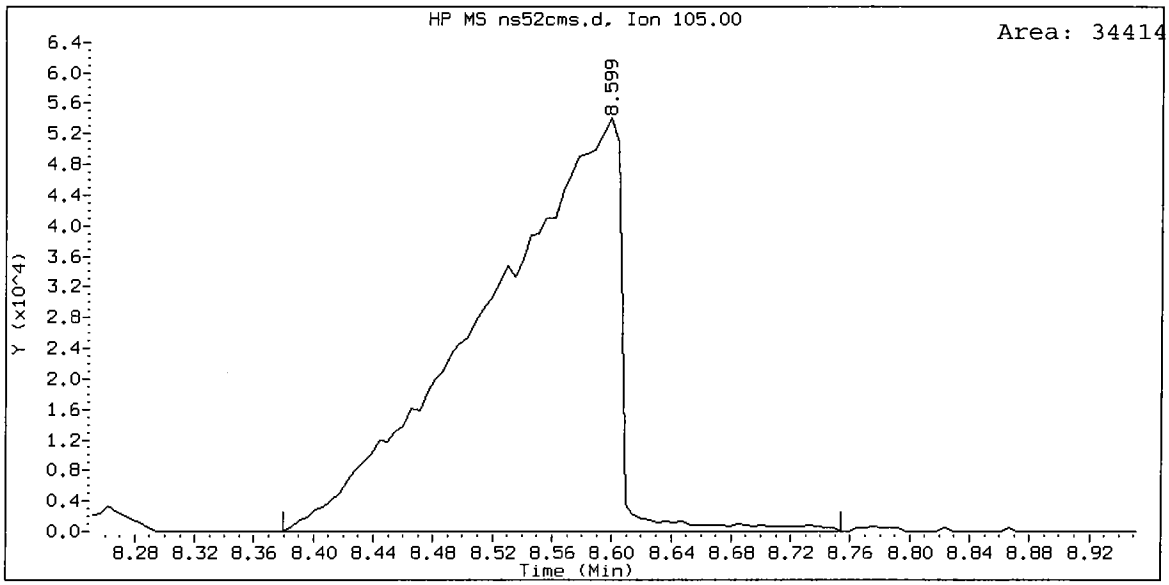
NS52CMS, /chem1/nt6.i/20081008.b/ns52cms.d
Benzyl alcohol Amount: 16.54

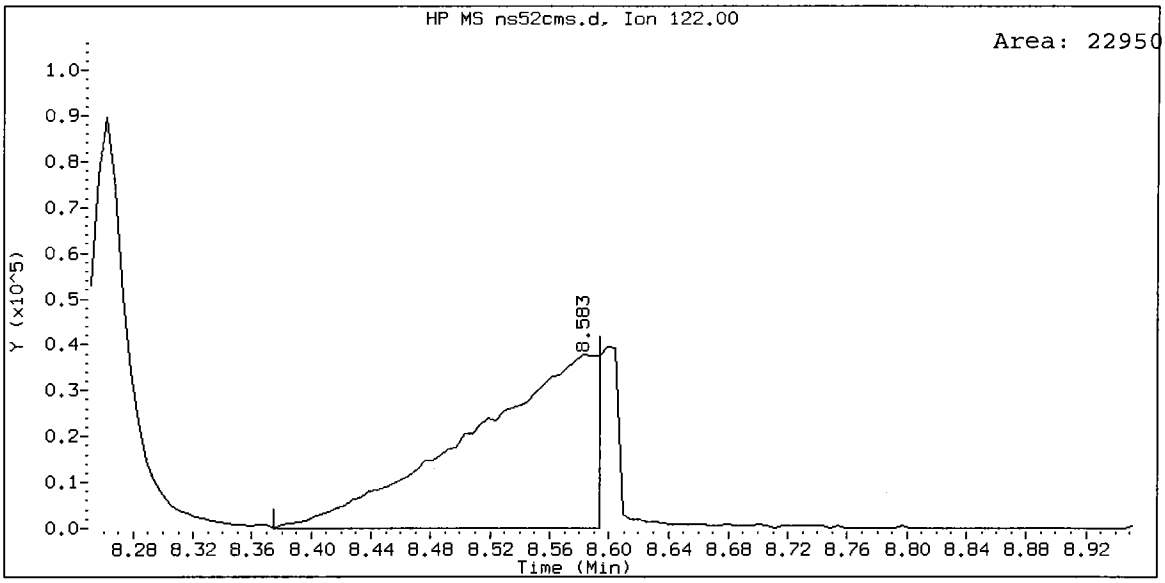


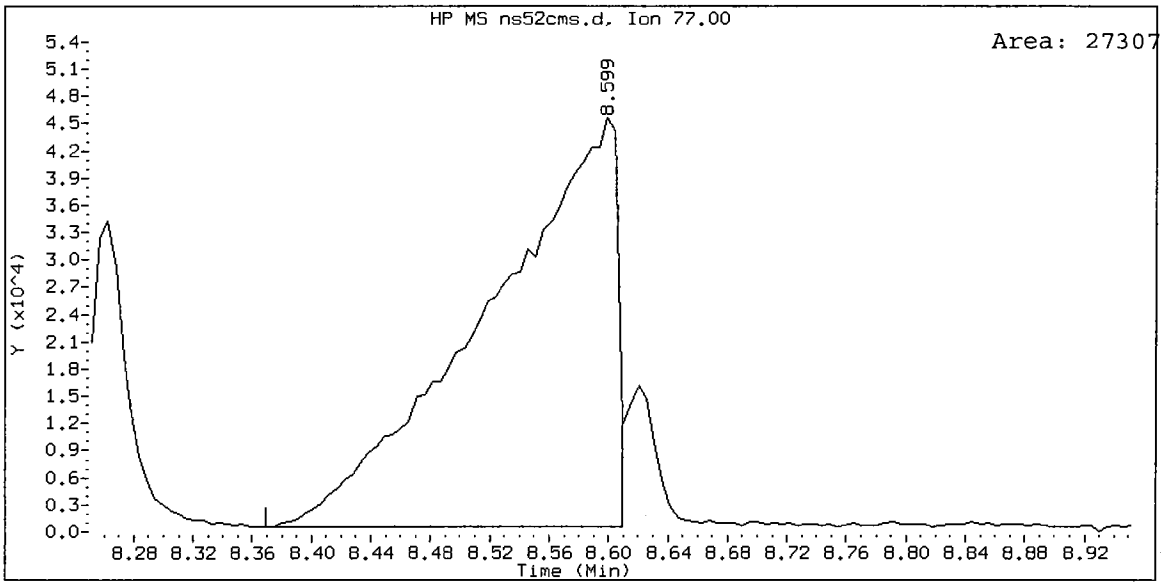




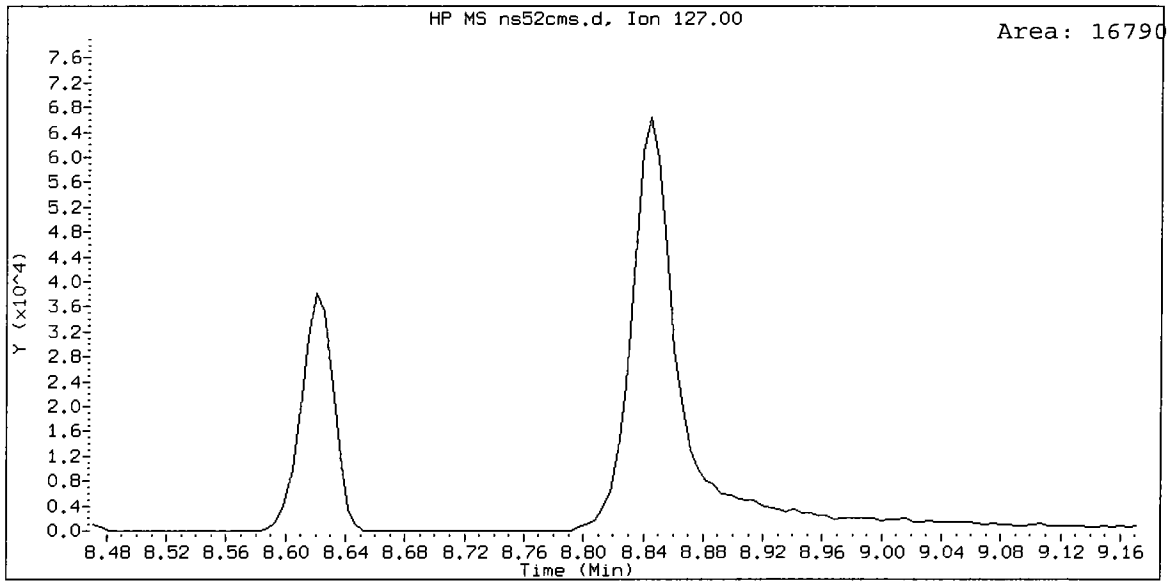
NS52CMS, /chem1/nt6.i/20081008.b/ns52cms.d
Benzoic acid Amount: 42.30

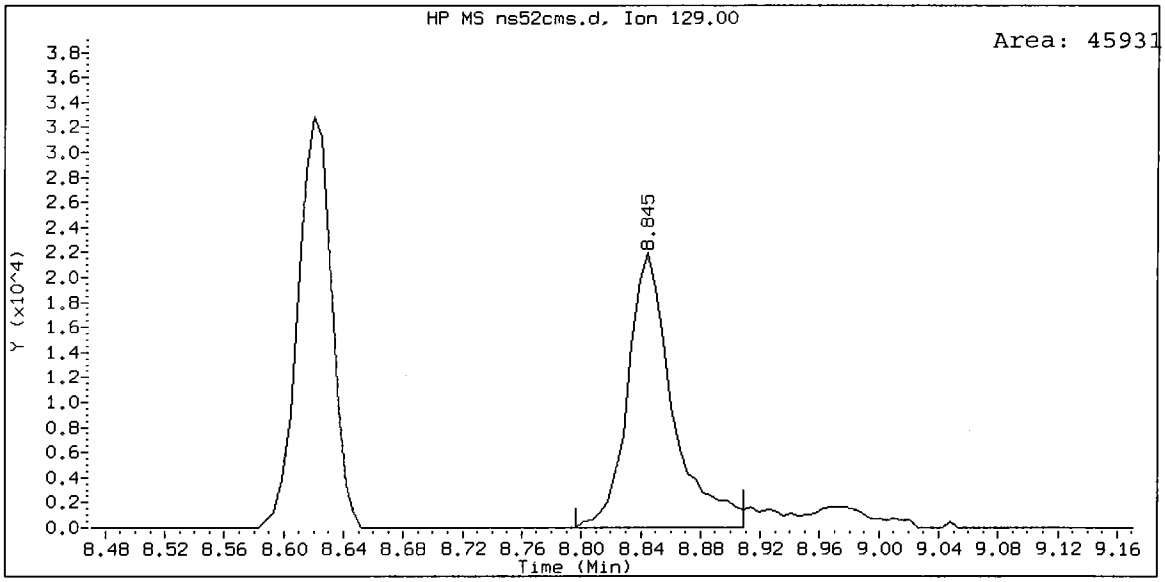




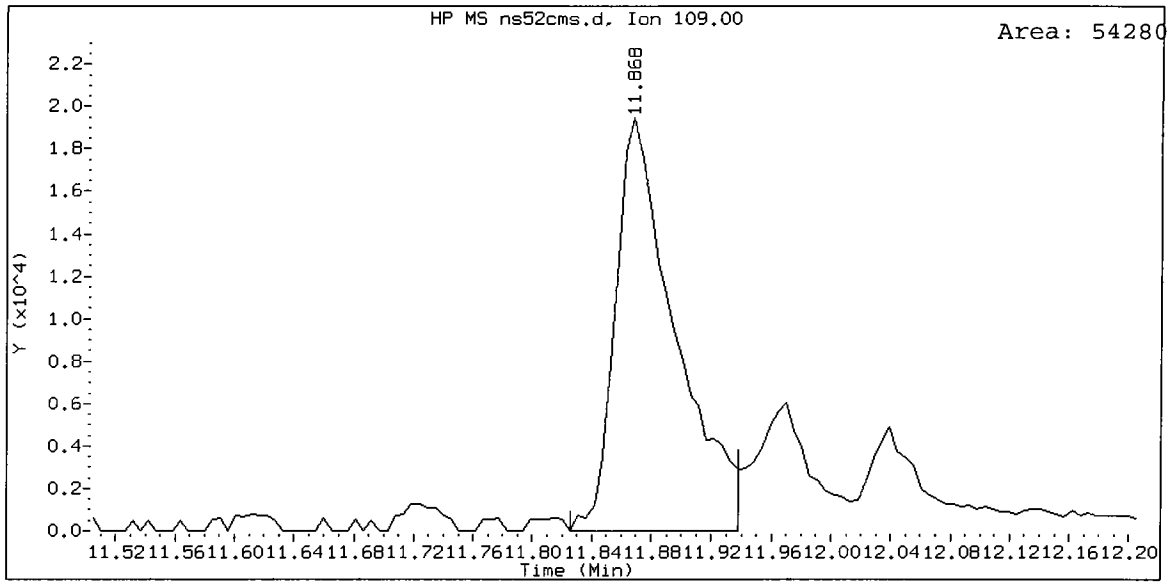


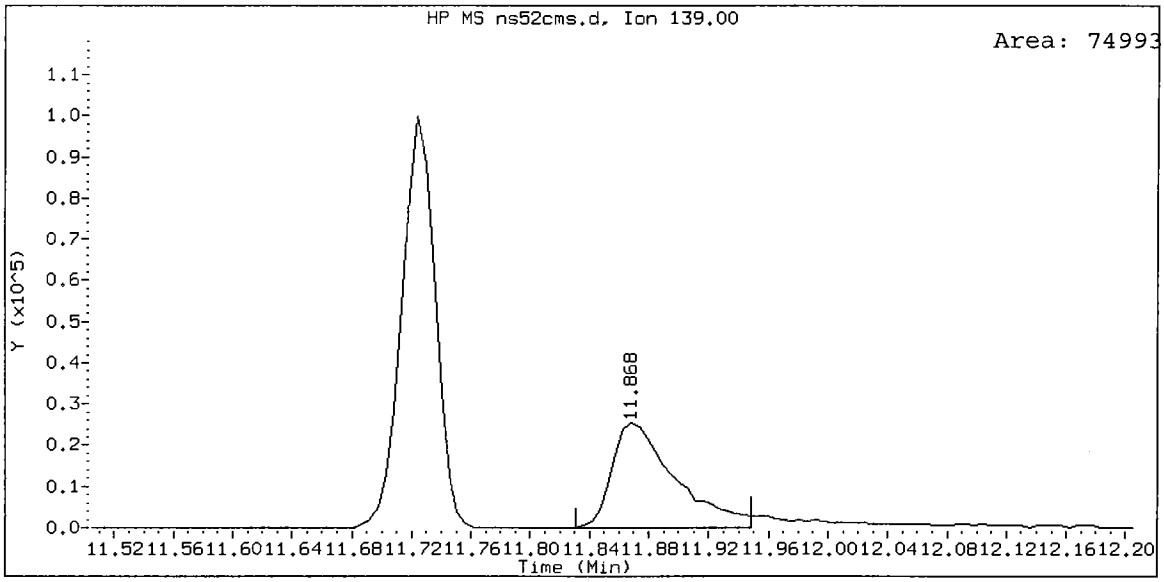
NS52CMS, /chem1/nt6.i/20081008.b/ns52cms.d
4-Chloroaniline Amount: 16.02

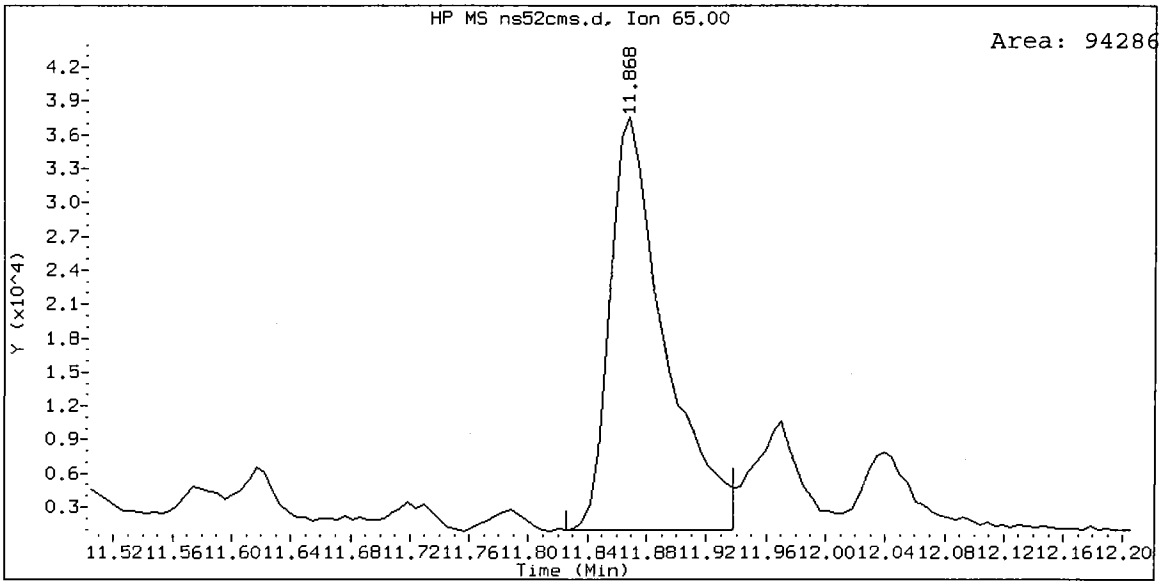




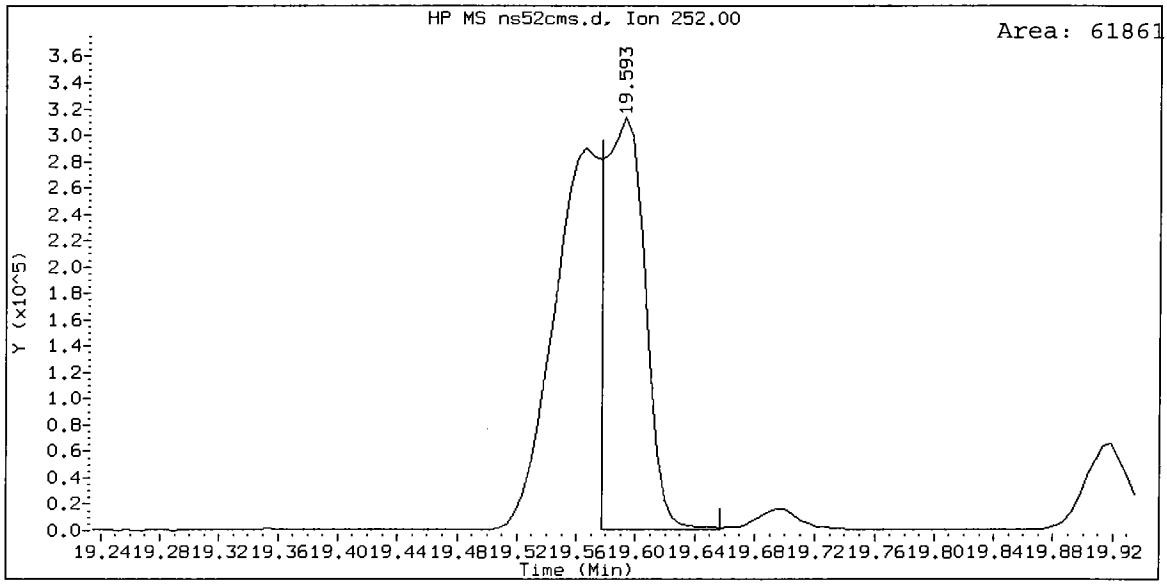
NS52CMS, /chem1/nt6.i/20081008.b/ns52cms.d
4-Nitrophenol Amount: 20.27

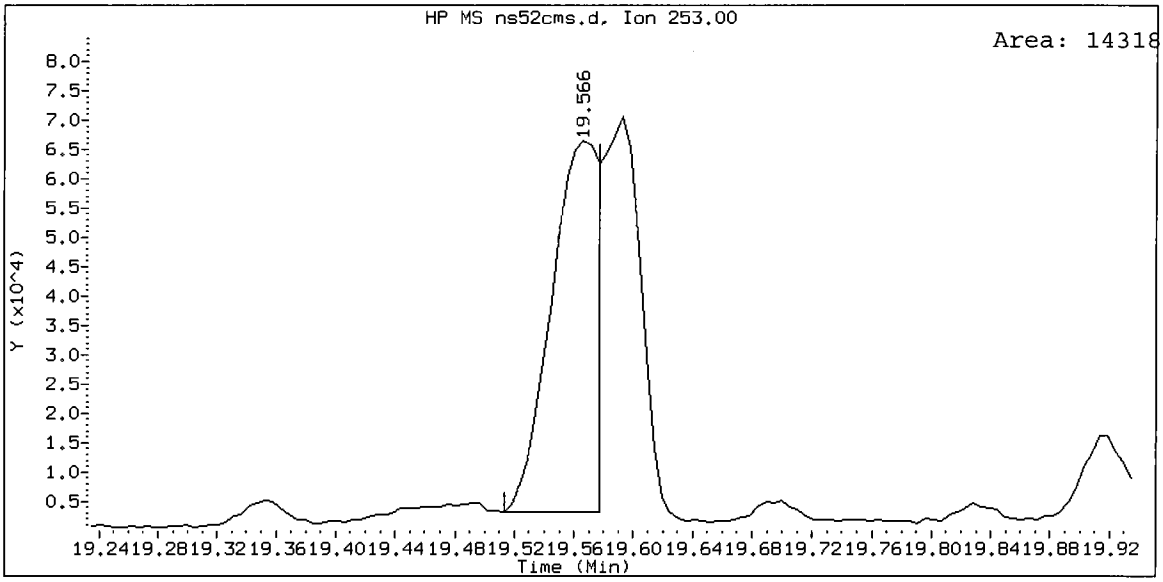


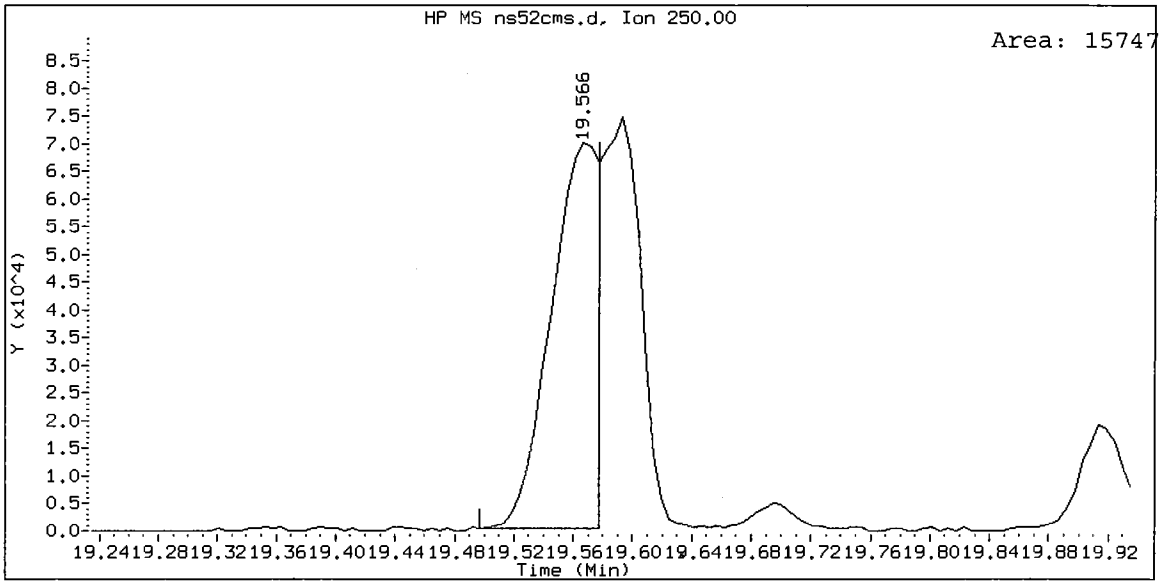




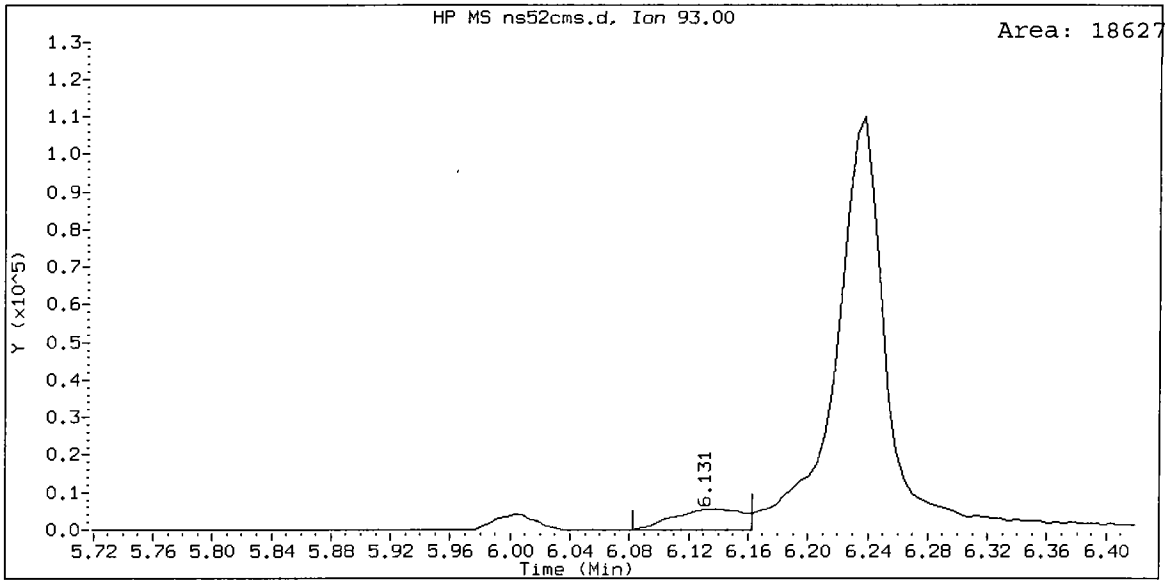
NS52CMS, /chem1/nt6.i/20081008.b/ns52cms.d
Benzo(k)fluoranthene Amount: 33.35

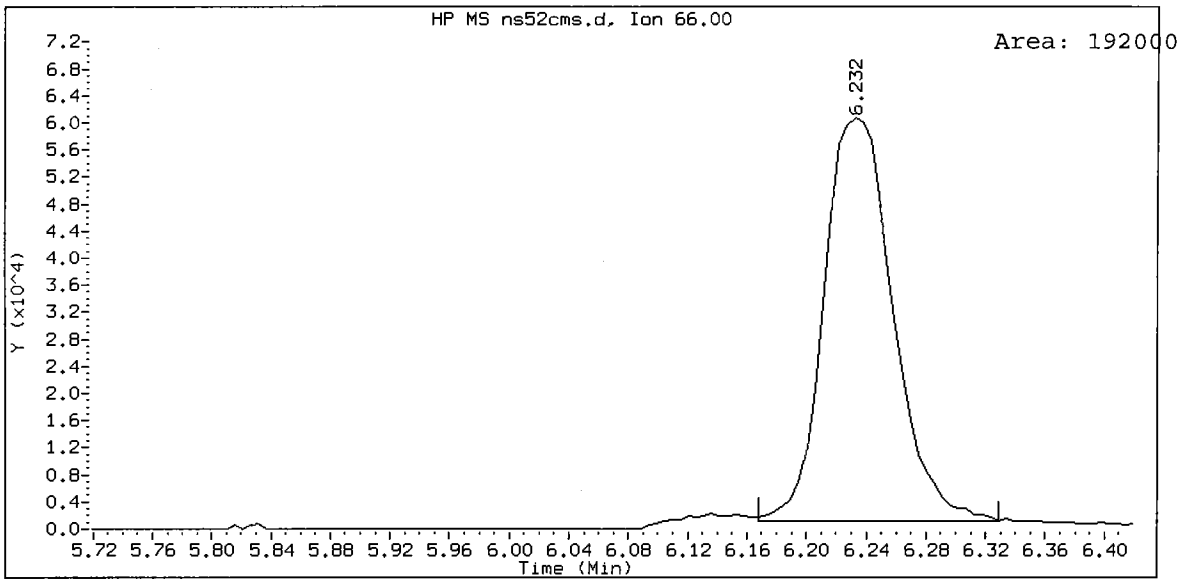


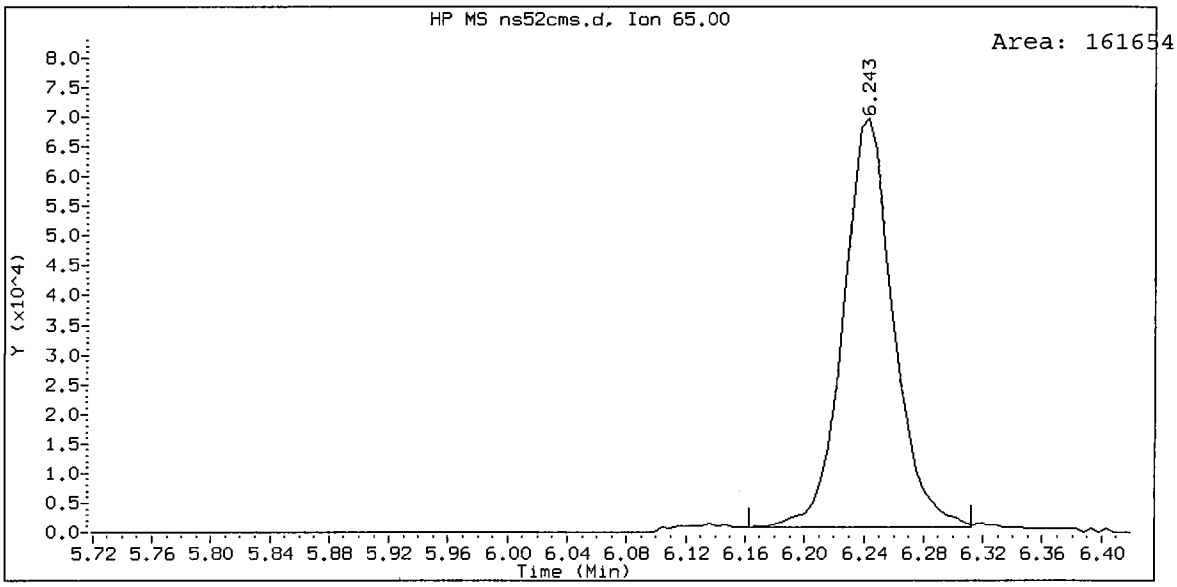




NS52CMS, /chem1/nt6.i/20081008.b/ns52cms.d
Aniline Amount: 1.11







ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: EB-SE03-A-081003
MATRIX SPIKE DUPLICATE

Lab Sample ID: NS52C
LIMS ID: 08-26288
Matrix: Sediment
Data Release Authorized:
Reported: 10/09/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 21:44
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 45.1%

CAS Number	Analyte	RL	Result
108-95-2	Phenol	20	---
541-73-1	1,3-Dichlorobenzene	20	---
106-46-7	1,4-Dichlorobenzene	20	---
100-51-6	Benzyl Alcohol	20	---
95-50-1	1,2-Dichlorobenzene	20	---
95-48-7	2-Methylphenol	20	---
106-44-5	4-Methylphenol	20	---
105-67-9	2,4-Dimethylphenol	20	---
65-85-0	Benzoic Acid	200	---
120-82-1	1,2,4-Trichlorobenzene	20	---
91-20-3	Naphthalene	20	---
87-68-3	Hexachlorobutadiene	20	---
91-57-6	2-Methylnaphthalene	20	---
131-11-3	Dimethylphthalate	20	---
208-96-8	Acenaphthylene	20	---
83-32-9	Acenaphthene	20	---
132-64-9	Dibenzofuran	20	---
84-66-2	Diethylphthalate	20	---
86-73-7	Fluorene	20	---
86-30-6	N-Nitrosodiphenylamine	20	---
118-74-1	Hexachlorobenzene	20	---
87-86-5	Pentachlorophenol	98	---
85-01-8	Phenanthrene	20	---
120-12-7	Anthracene	20	---
84-74-2	Di-n-Butylphthalate	20	---
206-44-0	Fluoranthene	20	---
129-00-0	Pyrene	20	---
85-68-7	Butylbenzylphthalate	20	---
56-55-3	Benzo(a)anthracene	20	---
117-81-7	bis(2-Ethylhexyl)phthalate	20	---
218-01-9	Chrysene	20	---
117-84-0	Di-n-Octyl phthalate	20	---
205-99-2	Benzo(b)fluoranthene	20	---
207-08-9	Benzo(k)fluoranthene	20	---
50-32-8	Benzo(a)pyrene	20	---
193-39-5	Indeno(1,2,3-cd)pyrene	20	---
53-70-3	Dibenz(a,h)anthracene	20	---
191-24-2	Benzo(g,h,i)perylene	20	---
90-12-0	1-Methylnaphthalene	20	---

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: EB-SE03-A-081003
MATRIX SPIKE DUPLICATE

Lab Sample ID: NS52C
LIMS ID: 08-26288
Matrix: Sediment
Date Analyzed: 10/08/08 21:44

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02

CAS Number	Analyte	RL	Result

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	65.6%	2-Fluorobiphenyl	70.8%
d14-p-Terphenyl	80.0%	d4-1,2-Dichlorobenzene	60.0%
d5-Phenol	73.3%	2-Fluorophenol	66.1%
2,4,6-Tribromophenol	89.9%	d4-2-Chlorophenol	69.1%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20081008.b/ns52cmd.d
Lab Smp Id: NS52CMSD Client Smp ID: EB-SE03-A-08100 MSD
Inj Date : 08-OCT-2008 21:44
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : NS52CMSD
Misc Info : 08-26288
Comment : 1ul Injection
Method : /chem1/nt6.i/20081008.b/SW846.m
Meth Date : 09-Oct-2008 09:21 jeff Quant Type: ISTD
Cal Date : 15-SEP-2008 14:30 Cal File: 0100915.d
Als bottle: 17 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 3.50

LJR 10/9/08

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	46.60000	Weight of sample extracted (g)
M	45.10000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	1 2-Fluorophenol	112	4.398	4.354	(0.675)	241886	24.7828	484.4
$	2 Phenol-d5	99	6.230	6.213	(0.957)	339867	27.4781	537.0
	3 Phenol	94	6.252	6.235	(0.960)	243137	16.1668	316.0
$	5 2-Chlorophenol-d4	132	6.225	6.213	(0.956)	196660	25.8929	506.0
	4 Bis(2-Chloroethyl)ether	93	6.236	6.235	(0.957)	224367	19.3329	377.8
	6 2-Chlorophenol	128	6.252	6.240	(0.960)	158684	16.2959	318.5
	7 1,3-Dichlorobenzene	146	6.439	6.443	(0.989)	154958	15.9311	311.4
*	8 1,4-Dichlorobenzene-d4	152	6.514	6.513	(1.000)	121610	20.0000	
	9 1,4-Dichlorobenzene	146	6.540	6.539	(1.004)	155466	16.0740	314.1
$	10 1,2-Dichlorobenzene-d4	152	6.818	6.817	(1.047)	83062	15.0125	293.4
	12 1,2-Dichlorobenzene	146	6.839	6.838	(1.050)	151745	16.5683	323.8
	11 Benzyl alcohol	108	6.936	6.881	(1.065)	100607	12.4519	243.4 (RM)
	14 2,2'-oxybis(1-Chloropropane)	45	7.149	7.154	(1.098)	285252	15.4641	302.2
	13 2-Methylphenol	108	7.192	7.186	(1.104)	177164	17.1997	336.1
	17 Hexachloroethane	117	7.331	7.335	(1.125)	62559	14.0959	275.5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
	16 N-Nitroso-di-n-propylamine	70	7.374	7.378	(1.132)	136070	16.6496	325.4
	15 4-Methylphenol	108	7.448	7.431	(1.144)	361633	34.1873	668.2
$	18 Nitrobenzene-d5	82	7.491	7.496	(0.872)	175776	16.3803	320.1
	19 Nitrobenzene	77	7.518	7.522	(0.875)	196710	18.3958	359.5
	20 Isophorone	82	7.929	7.928	(0.923)	365465	19.3003	377.2
	21 2-Nitrophenol	139	8.047	8.046	(0.937)	91497	19.3184	377.6
	22 2,4-Dimethylphenol	107	8.260	8.259	(0.961)	178366	18.6379	364.3
	23 Bis(2-Chloroethoxy)methane	93	8.378	8.382	(0.975)	225017	17.8042	348.0
	24 Benzoic acid	105	8.602	8.601	(1.001)	351166	44.1282	862.4 (M)
	25 2,4-Dichlorophenol	162	8.463	8.457	(0.985)	132803	21.5816	421.8
	26 1,2,4-Trichlorobenzene	180	8.554	8.553	(0.996)	121103	18.5111	361.8
*	27 Naphthalene-d8	136	8.592	8.596	(1.000)	425001	20.0000	
	28 Naphthalene	128	8.618	8.623	(1.003)	445565	18.9525	370.4
	29 4-Chloroaniline	127	8.843	8.820	(1.029)	160030	15.6136	305.2 (M)
	30 Hexachlorobutadiene	225	8.976	8.975	(1.045)	66181	19.1200	373.7
	31 4-Chloro-3-methylphenol	107	9.708	9.702	(1.130)	168002	21.8771	427.6
	32 2-Methylnaphthalene	141	9.746	9.745	(1.134)	254658	21.5782	421.7 (R)
	33 Hexachlorocyclopentadiene	237	10.136	10.135	(0.888)	113088	30.6504	599.0
	34 2,4,6-Trichlorophenol	196	10.290	10.295	(0.901)	92453	19.0833	373.0
	35 2,4,5-Trichlorophenol	196	10.360	10.348	(0.907)	101975	19.9350	389.6
$	36 2-Fluorobiphenyl	172	10.413	10.418	(0.912)	280517	17.6884	345.7
	37 2-Chloronaphthalene	162	10.504	10.503	(0.920)	278833	17.6665	345.3
	38 2-Nitroaniline	65	10.782	10.776	(0.944)	132598	20.3952	398.6
	39 Dimethylphthalate	163	11.193	11.187	(0.980)	359590	21.7825	425.7
	40 Acenaphthylene	152	11.161	11.160	(0.978)	484328	20.3036	396.8
	41 2,6-Dinitrotoluene	165	11.263	11.262	(0.986)	78827	22.0800	431.5
*	42 Acenaphthene-d10	164	11.418	11.417	(1.000)	232817	20.0000	
	43 3-Nitroaniline	138	11.460	11.449	(1.004)	121991	28.9090	565.0
	44 Acenaphthene	153	11.466	11.465	(1.004)	282540	18.2431	356.5
	45 2,4-Dinitrophenol	184	11.621	11.614	(1.018)	101957	50.5621	988.2
	46 Dibenzofuran	168	11.727	11.727	(1.027)	405309	21.0160	410.7 (R)
	47 4-Nitrophenol	109	11.872	11.855	(1.040)	49584	18.9653	370.7
	48 2,4-Dinitrotoluene	165	11.866	11.865	(1.039)	103586	21.6428	423.0
	50 Diethylphthalate	149	12.336	12.341	(1.080)	319859	18.7600	366.6
	49 Fluorene	166	12.272	12.271	(1.075)	356282	22.9364	448.3 (R)
	51 4-Chlorophenyl-phenylether	204	12.336	12.341	(1.080)	136070	20.2681	396.1
	52 4-Nitroaniline	138	12.427	12.426	(1.088)	57914	12.4805	243.9
	53 4,6-Dinitro-2-methylphenol	198	12.502	12.501	(0.910)	138330	50.4507	986.0
	54 N-Nitrosodiphenylamine	169	12.556	12.555	(0.914)	223313	25.2658	493.8
$	55 2,4,6-Tribromophenol	330	12.694	12.688	(1.112)	69730	33.6840	658.3
	56 4-Bromophenyl-phenylether	248	13.095	13.094	(0.954)	86692	20.3974	398.6
	57 Hexachlorobenzene	284	13.271	13.270	(0.967)	89729	21.9217	428.4
	58 Pentachlorophenol	266	13.603	13.591	(0.991)	63624	21.1627	413.6
*	59 Phenanthrene-d10	188	13.731	13.730	(1.000)	336817	20.0000	
	60 Phenanthrene	178	13.768	13.762	(1.003)	792195	39.4577	771.2 (R)
	61 Anthracene	178	13.838	13.837	(1.008)	510939	23.9897	468.9 (R)
	62 Carbazole	167	14.158	14.152	(1.031)	471675	24.2040	473.0 (R)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
63	Di-n-butylphthalate	149	14.959	14.953	(1.089)	580997	22.1423	432.7
64	Fluoranthene	202	15.670	15.653	(1.141)	1074794	60.4732	1182(R)
65	Pyrene	202	16.001	15.990	(0.891)	1071270	49.0430	958.5(R)
$ 66	Terphenyl-d14	244	16.380	16.380	(0.912)	293927	19.9598	390.1
67	Butylbenzylphthalate	149	17.315	17.309	(0.964)	325636	27.6222	539.8(R)
68	Benzo(a)anthracene	228	17.940	17.929	(0.999)	622772	30.1793	589.8(R)
* 69	Chrysene-d12	240	17.962	17.955	(1.000)	317483	20.0000	
70	3,3'-Dichlorobenzidine	252	18.010	17.998	(1.003)	84113	11.7100	228.9
71	Chrysene	228	18.004	17.993	(1.002)	772865	36.9372	721.9(R)
72	bis(2-Ethylhexyl)phthalate	149	18.346	18.340	(0.952)	440255	30.1876	590.0(R)
* 134	Di-n-octylphthalate-d4	153	19.271	19.264	(1.000)	525198	20.0000	
73	Di-n-octylphthalate	149	19.281	19.275	(1.001)	600365	20.0098	391.1
74	Benzo(b)fluoranthene	252	19.575	19.553	(0.976)	668293	38.9347	760.9(R)
75	Benzo(k)fluoranthene	252	19.596	19.585	(0.977)	647490	37.3988	730.9(RM)
76	Benzo(a)pyrene	252	19.992	19.975	(0.996)	479288	28.6429	559.8(R)
* 77	Perylene-d12	264	20.067	20.055	(1.000)	289378	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	21.402	21.390	(1.067)	348324	16.6532	325.5
79	Dibenzo(a,h)anthracene	278	21.439	21.428	(1.068)	265634	14.8294	289.8
80	Benzo(g,h,i)perylene	276	21.680	21.674	(1.080)	266190	13.5967	265.7
90	N-Nitrosodimethylamine	74	Compound Not Detected.					
91	Aniline	93	6.124	6.069	(0.940)	16218	0.99084	19.36(RM)
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	Compound Not Detected.					
105	1-methylnaphthalene	141	9.906	9.910	(1.153)	252868	21.5626	421.4
111	Azobenzene (1,2-DP-Hydrazine)	77	12.582	12.581	(1.102)	473255	20.5261	401.2

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: ns52cmd.d
Lab Smp Id: NS52CMSD
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20081008.b/SW846.m
Misc Info: 08-26288

Calibration Date: 08-OCT-2008
Calibration Time: 12:09
Client Smp ID: EB-SE03-A-08100
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	118976	59488	237952	121610	2.21
27 Naphthalene-d8	414286	207143	828572	425001	2.59
42 Acenaphthene-d10	208588	104294	417176	232817	11.62
59 Phenanthrene-d10	283346	141673	566692	336817	18.87
69 Chrysene-d12	273753	136876	547506	317483	15.97
134 Di-n-octylphthala	485719	242860	971438	525198	8.13
77 Perylene-d12	342905	171452	685810	289378	-15.61

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.51	6.01	7.01	6.51	0.01
27 Naphthalene-d8	8.60	8.10	9.10	8.59	-0.05
42 Acenaphthene-d10	11.42	10.92	11.92	11.42	0.01
59 Phenanthrene-d10	13.73	13.23	14.23	13.73	0.01
69 Chrysene-d12	17.96	17.46	18.46	17.96	0.03
134 Di-n-octylphthala	19.26	18.76	19.76	19.27	0.03
77 Perylene-d12	20.05	19.55	20.55	20.07	0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: NS52CMSD
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDA.sub
Method File: /chem1/nt6.i/20081008.b/SW846.m
Misc Info: 08-26288

Client SDG: NS52
Fraction: SV
Client Smp ID: EB-SE03-A-08100 MSD
Operator: LJR/VTS
SampleType: MSD
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3 Phenol	488.6	316.0	64.67	37-92
4 Bis(2-Chloroethyl)	488.6	377.8	77.33	40-83
6 2-Chlorophenol	488.6	318.5	65.18	42-80
7 1,3-Dichlorobenzen	488.6	311.4	63.72	39-75
9 1,4-Dichlorobenzen	488.6	314.1	64.30	40-75
11 Benzyl alcohol	977.2	243.4	24.90*	25-90
12 1,2-Dichlorobenzen	488.6	323.8	66.27	40-76
13 2-Methylphenol	488.6	336.1	68.80	40-86
14 2,2'-oxybis(1-Chlo	488.6	302.2	61.86	26-100
15 4-Methylphenol	977.2	668.2	68.37	40-92
16 N-Nitroso-di-n-pro	488.6	325.4	66.60	29-95
17 Hexachloroethane	488.6	275.5	56.38	37-73
19 Nitrobenzene	488.6	359.5	73.58	37-85
20 Isophorone	488.6	377.2	77.20	42-91
21 2-Nitrophenol	488.6	377.6	77.27	40-86
22 2,4-Dimethylphenol	488.6	364.3	74.55	23-85
23 Bis(2-Chloroethoxy	488.6	348.0	71.22	40-87
24 Benzoic acid	1466	862.4	58.84	29-104
25 2,4-Dichlorophenol	488.6	421.8	86.33	42-88
26 1,2,4-Trichloroben	488.6	361.8	74.04	40-81
28 Naphthalene	488.6	370.4	75.81	41-80
29 4-Chloroaniline	1173	305.2	26.02	14-80
30 Hexachlorobutadien	488.6	373.7	76.48	37-85
31 4-Chloro-3-methylp	488.6	427.6	87.51	40-94
32 2-Methylnaphthalen	488.6	421.7	86.31*	44-82
33 Hexachlorocyclopen	1466	599.0	40.87	10-98
34 2,4,6-Trichlorophe	488.6	373.0	76.33	42-88
35 2,4,5-Trichlorophe	488.6	389.6	79.74	41-89
37 2-Chloronaphthalen	488.6	345.3	70.67	42-82
38 2-Nitroaniline	488.6	398.6	81.58	35-101
39 Dimethylphthalate	488.6	425.7	87.13	44-91
40 Acenaphthylene	488.6	396.8	81.21	44-84
41 2,6-Dinitrotoluene	488.6	431.5	88.32	42-97

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
43 3-Nitroaniline	1251	565.0	45.17	25-93
44 Acenaphthene	488.6	356.5	72.97	42-85
45 2,4-Dinitrophenol	1466	988.2	67.42	10-179
46 Dibenzofuran	488.6	410.7	84.06*	46-84
47 4-Nitrophenol	488.6	370.7	75.86	26-97
48 2,4-Dinitrotoluene	488.6	423.0	86.57	41-101
49 Fluorene	488.6	448.3	91.75*	44-88
50 Diethylphthalate	488.6	366.6	75.04	46-94
51 4-Chlorophenyl-phe	488.6	396.1	81.07	44-87
52 4-Nitroaniline	488.6	243.9	49.92	24-89
53 4,6-Dinitro-2-meth	1466	986.0	67.27	22-128
54 N-Nitrosodiphenyla	488.6	493.8	101.06	40-111
56 4-Bromophenyl-phen	488.6	398.6	81.59	43-91
57 Hexachlorobenzene	488.6	428.4	87.69	42-90
58 Pentachlorophenol	488.6	413.6	84.65	34-94
60 Phenanthrene	488.6	771.2	157.83*	45-90
61 Anthracene	488.6	468.9	95.96*	42-87
62 Carbazole	488.6	473.0	96.82*	43-93
63 Di-n-butylphthalat	488.6	432.7	88.57	48-99
64 Fluoranthene	488.6	1182	241.89*	43-98
65 Pyrene	488.6	958.5	196.17*	39-99
67 Butylbenzylphthala	488.6	539.8	110.49*	41-105
68 Benzo(a)anthracene	488.6	589.8	120.72*	42-94
70 3,3'-Dichlorobenzi	1251	228.9	18.30	14-84
71 Chrysene	488.6	721.9	147.75*	45-92
72 bis(2-Ethylhexyl)p	488.6	590.0	120.75*	34-111
73 Di-n-octylphthalat	488.6	391.1	80.04	32-107
74 Benzo(b)fluoranthe	488.6	760.9	155.74*	43-105
75 Benzo(k)fluoranthe	488.6	730.9	149.60*	40-108
76 Benzo(a)pyrene	488.6	559.8	114.57*	41-95
78 Indeno(1,2,3-cd)py	488.6	325.5	66.61	28-101
79 Dibenzo(a,h)anthra	488.6	289.8	59.32	32-104
80 Benzo(g,h,i)peryle	488.6	265.7	54.39	18-106
91 Aniline	488.6	19.36	3.96*	10-71
111 Azobenzene (1,2-DP	488.6	401.2	82.10	40-94
90 N-Nitrosodimethyl	488.6	0.000	*	31-75
105 1-methylnaphthalen	488.6	421.4	86.25	43-87

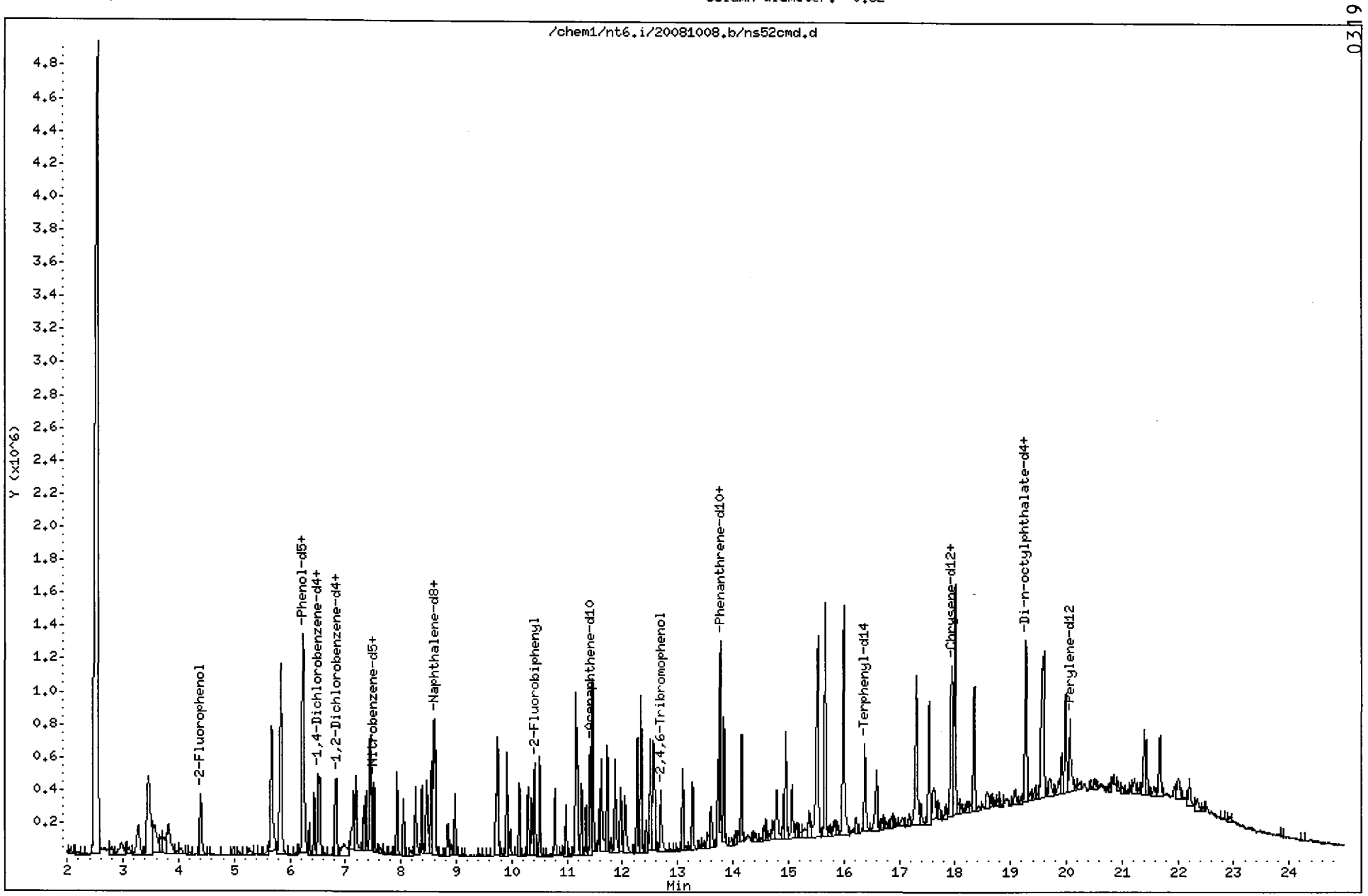
OK

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	732.9	484.4	66.09	10-114
$ 2 Phenol-d5	732.9	537.0	73.28	29-85
$ 5 2-Chlorophenol-d4	732.9	506.0	69.05	30-84

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 10 1,2-Dichlorobenzen	488.6	293.4	60.05	25-82
$ 18 Nitrobenzene-d5	488.6	320.1	65.52	29-87
$ 36 2-Fluorobiphenyl	488.6	345.7	70.75	32-88
$ 55 2,4,6-Tribromophen	732.9	658.3	89.82	25-103
$ 66 Terphenyl-d14	488.6	390.1	79.84	21-97

Data File: /chem1/nt6.i/20081008.b/ns52cmd.d
Date : 08-OCT-2008 21:44
Client ID: EB-SE03-A-08100 MSD
Sample Info: NS52CMSD
Volume Injected (uL): 1.0
Column phase: ZB-5

Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32



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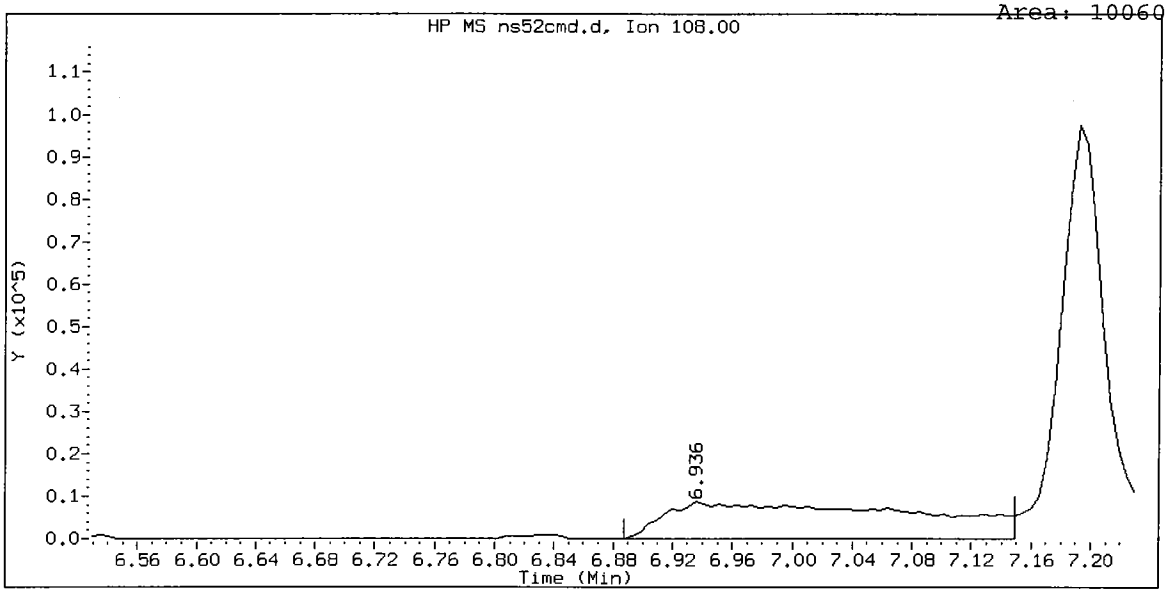
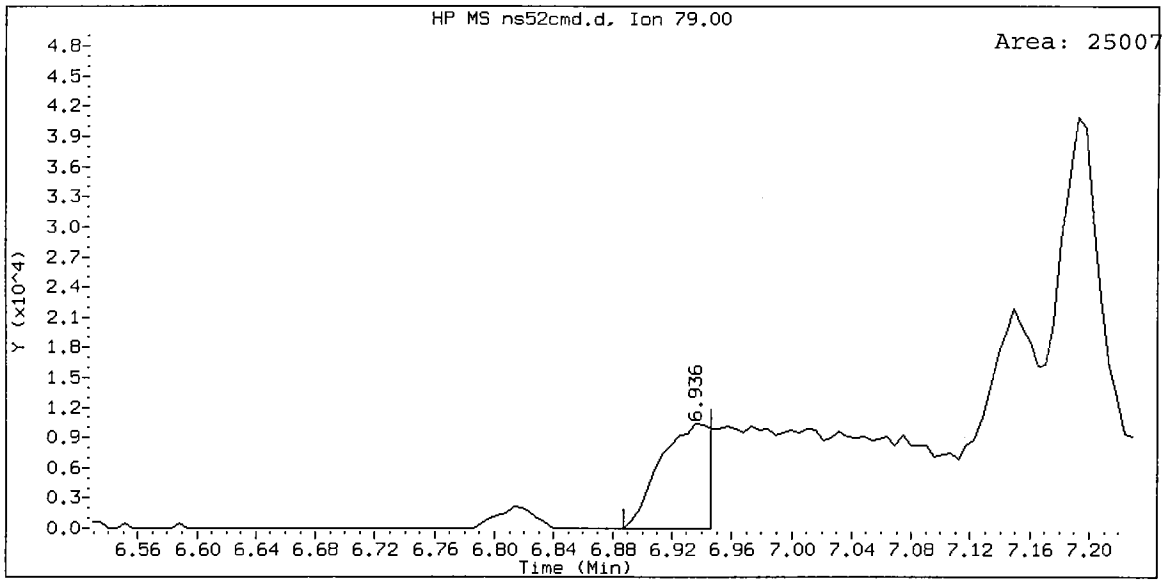
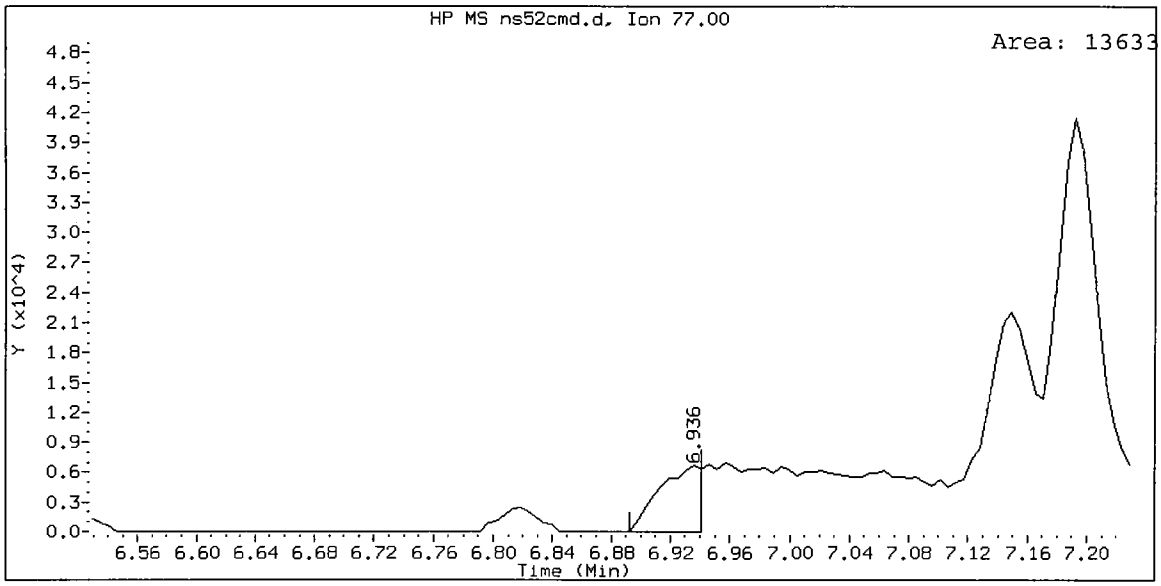
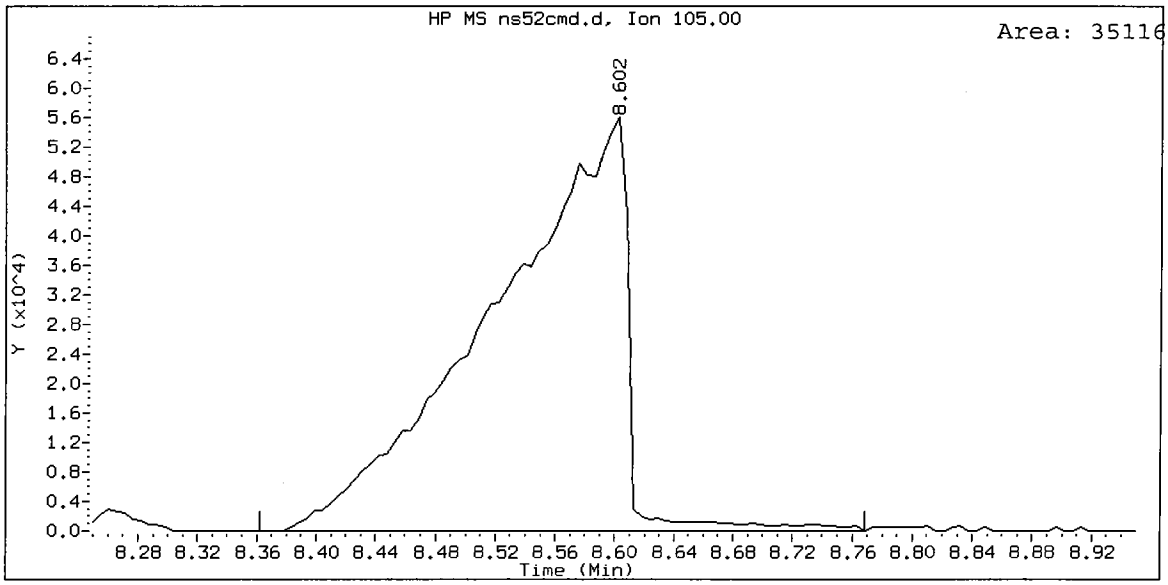
Benzyl alcohol Amount: 12.45

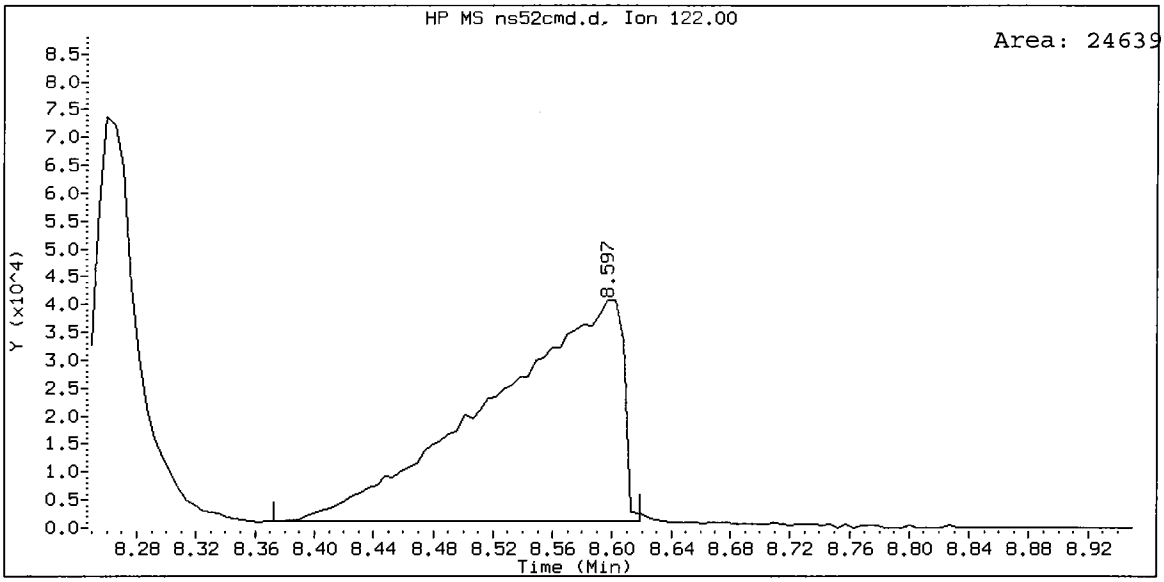


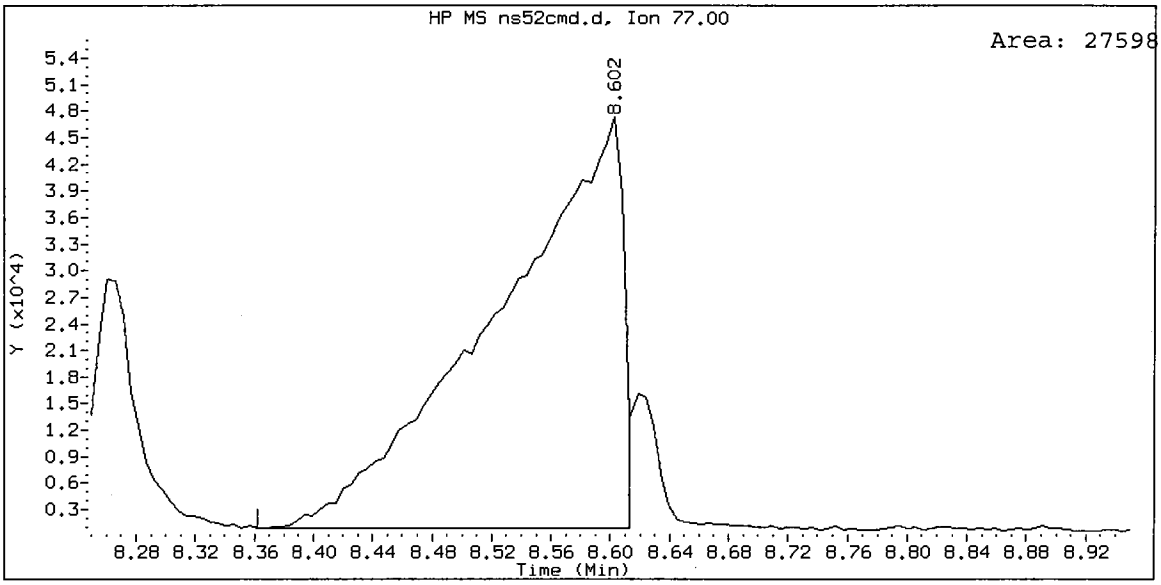




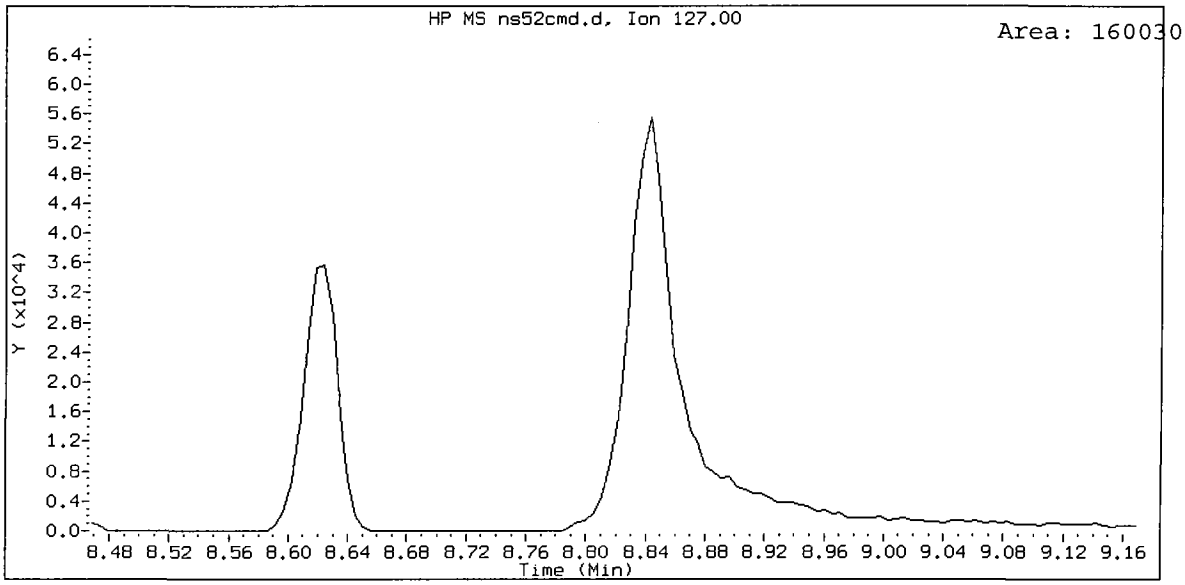
NS52CMSD, /chem1/nt6.i/20081008.b/ns52cmd.d
Benzoic acid Amount: 44.13

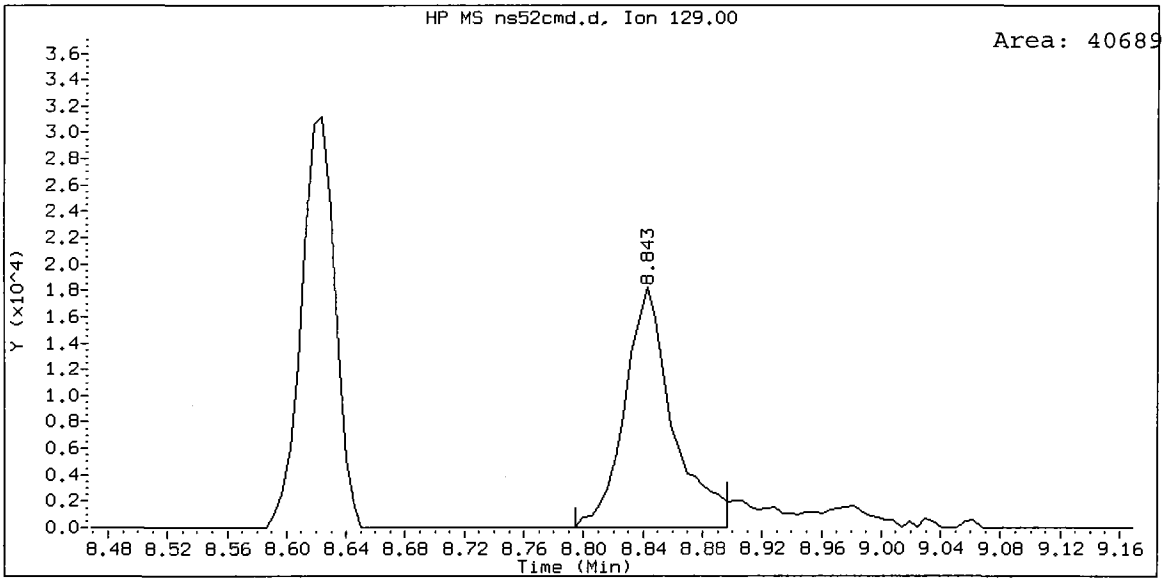






NS52CMSD, /chem1/nt6.i/20081008.b/ns52cmd.d
4-Chloroaniline Amount: 15.61





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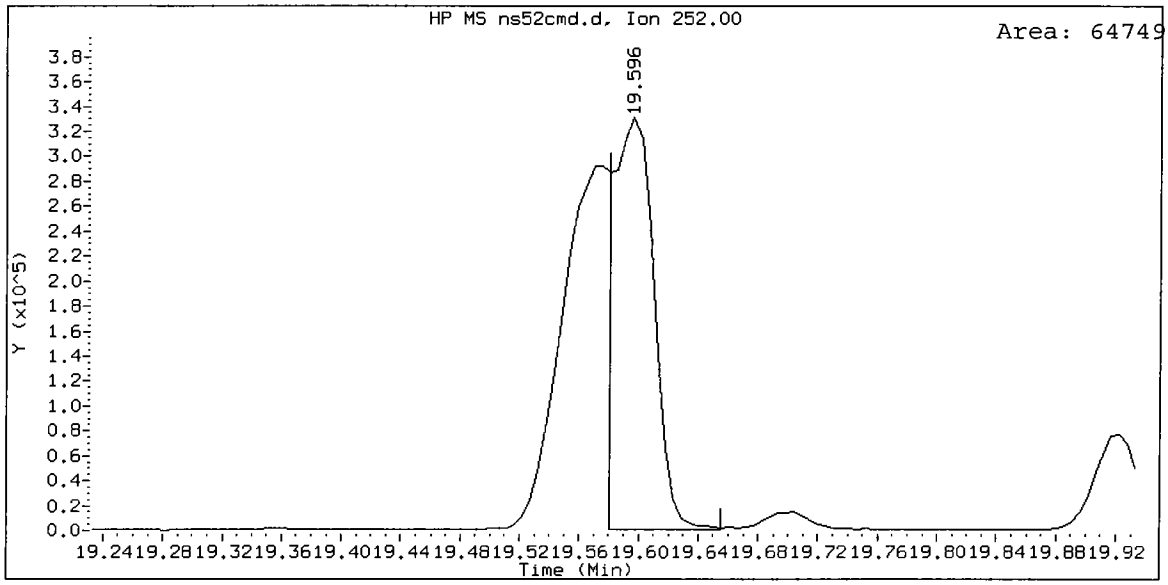
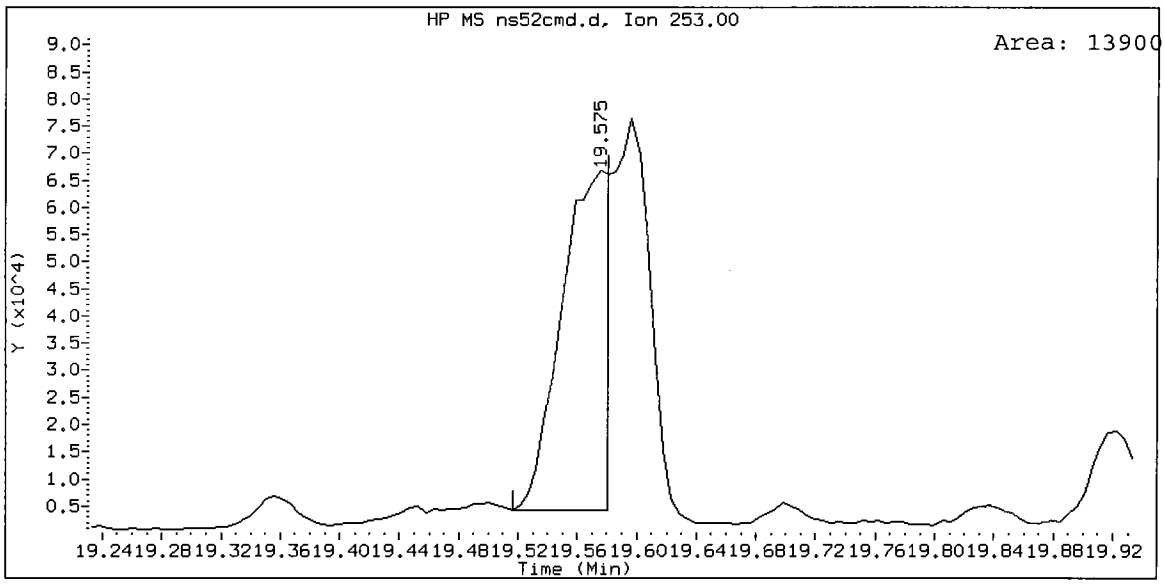
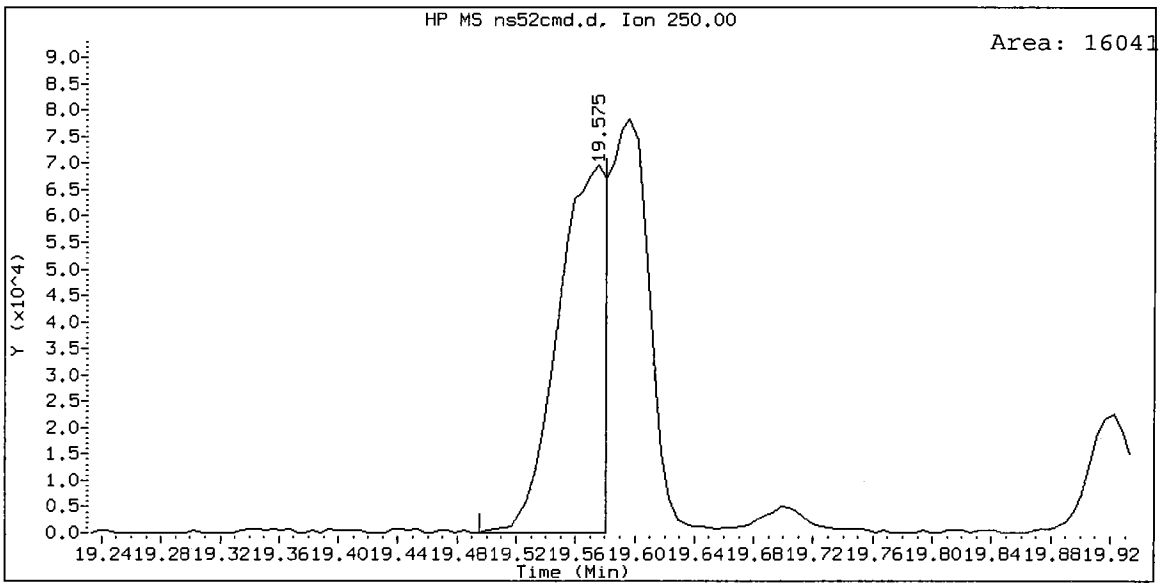
Benzo(k)fluoranthene Amount: 37.40







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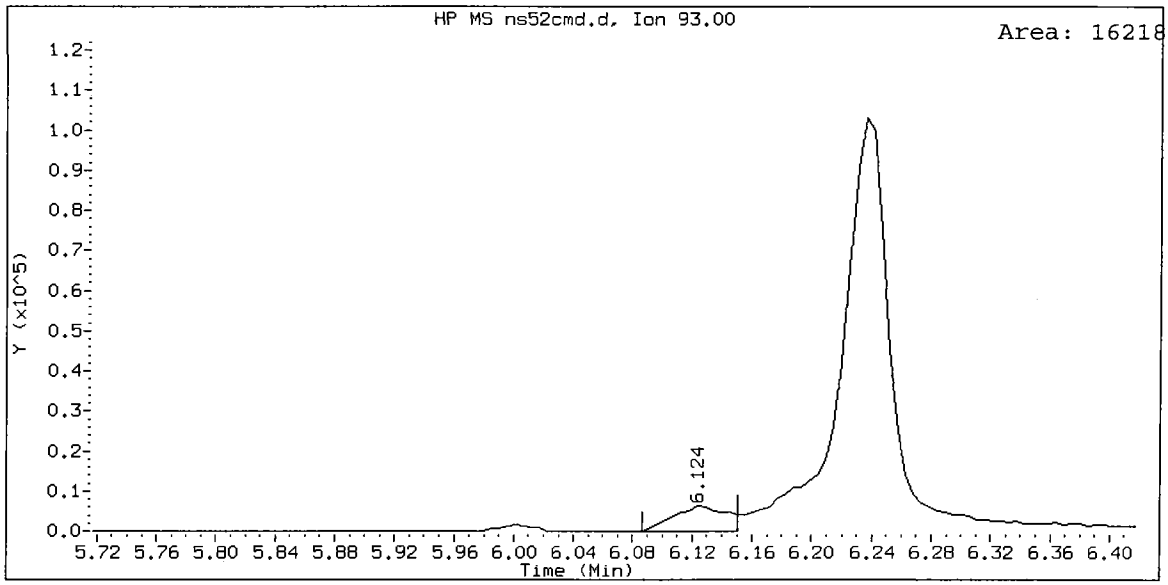
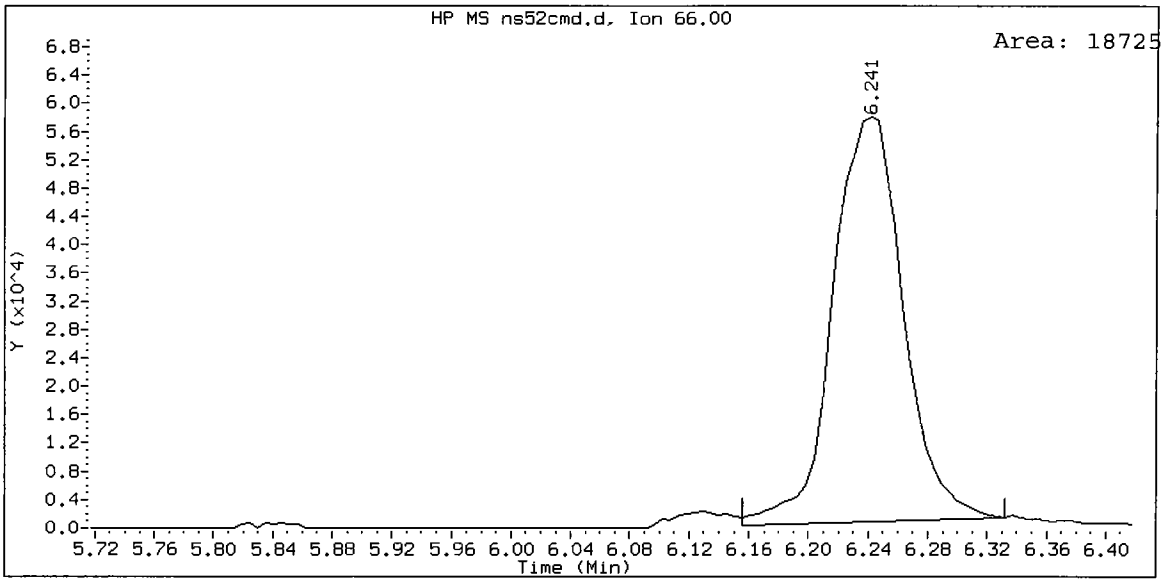
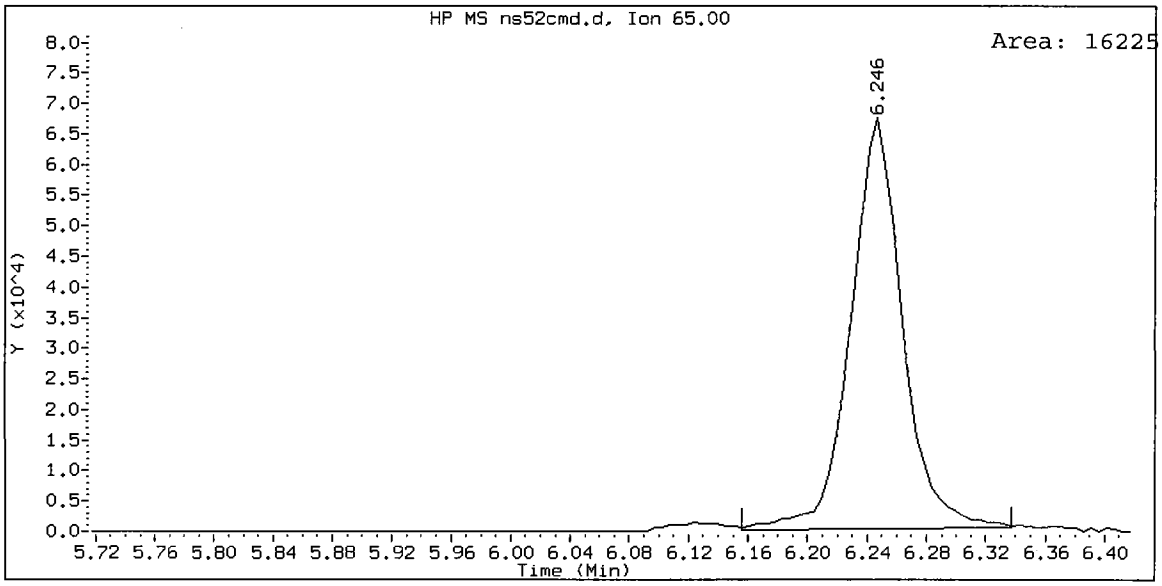
Aniline Amount: 0.99







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem1/nt6.i/20081008.b/ns52sb.d
Lab Smp Id: NS52LCSS1 Client Smp ID: NS52LCSS1
Inj Date : 08-OCT-2008 13:16
Operator : LJR/VTS Inst ID: nt6.i
Smp Info : NS52LCSS1
Misc Info : 08-26288
Comment : 1ul Injection
Method : /chem1/nt6.i/20081008.b/SW846.m
Meth Date : 09-Oct-2008 09:21 jeff Quant Type: ISTD
Cal Date : 15-SEP-2008 14:30 Cal File: 0100915.d
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDAMBLCS.sub
Target Version: 3.50

LJK 10/17/08

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Volume of final extract (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	1 2-Fluorophenol	112	4.391	4.354	(0.674)	238389	24.4916	489.8
$	2 Phenol-d5	99	6.218	6.213	(0.955)	336471	27.2561	545.1
	3 Phenol	94	6.234	6.235	(0.957)	250291	16.7312	334.6
$	5 2-Chlorophenol-d4	132	6.218	6.213	(0.955)	188616	24.7934	495.9
	4 Bis(2-Chloroethyl)ether	93	6.234	6.235	(0.957)	175037	15.1237	302.5
	6 2-Chlorophenol	128	6.245	6.240	(0.959)	156909	16.1579	323.2
	7 1,3-Dichlorobenzene	146	6.437	6.443	(0.988)	155016	15.9838	319.7
*	8 1,4-Dichlorobenzene-d4	152	6.512	6.513	(1.000)	121277	20.0000	
	9 1,4-Dichlorobenzene	146	6.539	6.539	(1.004)	153447	15.8970	317.9
$	10 1,2-Dichlorobenzene-d4	152	6.817	6.817	(1.047)	87790	16.0545	321.1
	12 1,2-Dichlorobenzene	146	6.838	6.838	(1.050)	150491	16.4674	329.3
	11 Benzyl alcohol	108	6.881	6.881	(1.057)	206107	25.5795	511.6(M)
	14 2,2'-oxybis(1-Chloropropane)	45	7.148	7.154	(1.098)	266618	14.4936	289.9
	13 2-Methylphenol	108	7.185	7.186	(1.103)	168771	16.4299	328.6
	17 Hexachloroethane	117	7.329	7.335	(1.125)	68164	15.4010	308.0

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
16	N-Nitroso-di-n-propylamine	70	7.372	7.378	(1.132)	137993	16.9313	338.6
15	4-Methylphenol	108	7.442	7.431	(1.143)	367628	34.8494	697.0
$ 18	Nitrobenzene-d5	82	7.490	7.496	(0.872)	174332	16.2211	324.4
19	Nitrobenzene	77	7.516	7.522	(0.875)	196370	18.3309	366.6
20	Isophorone	82	7.928	7.928	(0.923)	366091	19.3039	386.1
21	2-Nitrophenol	139	8.045	8.046	(0.937)	89254	18.8162	376.3
22	2,4-Dimethylphenol	107	8.259	8.259	(0.961)	172523	18.0000	360.0
23	Bis(2-Chloroethoxy)methane	93	8.376	8.382	(0.975)	222200	17.5545	351.1
24	Benzoic acid	105	8.622	8.601	(1.004)	460201	57.7418	1155 (M)
25	2,4-Dichlorophenol	162	8.462	8.457	(0.985)	126343	20.4065	408.1
26	1,2,4-Trichlorobenzene	180	8.553	8.553	(0.996)	114642	17.4156	348.3
* 27	Naphthalene-d8	136	8.590	8.596	(1.000)	425648	20.0000	
28	Naphthalene	128	8.622	8.623	(1.004)	420300	17.7243	354.5
29	4-Chloroaniline	127	8.820	8.820	(1.027)	361078	35.1757	703.5
30	Hexachlorobutadiene	225	8.975	8.975	(1.045)	64020	18.4103	368.2
31	4-Chloro-3-methylphenol	107	9.701	9.702	(1.129)	164918	21.4059	428.1
32	2-Methylnaphthalene	141	9.744	9.745	(1.134)	241598	20.2871	405.7
33	Hexachlorocyclopentadiene	237	10.134	10.135	(0.888)	205344	57.4432	1149
34	2,4,6-Trichlorophenol	196	10.289	10.295	(0.901)	87650	18.6733	373.5
35	2,4,5-Trichlorophenol	196	10.353	10.348	(0.907)	93381	18.8416	376.8
$ 36	2-Fluorobiphenyl	172	10.417	10.418	(0.912)	266471	17.3283	346.6
37	2-Chloronaphthalene	162	10.503	10.503	(0.920)	263420	17.2263	344.5
38	2-Nitroaniline	65	10.780	10.776	(0.944)	128798	20.4473	408.9
39	Dimethylphthalate	163	11.192	11.187	(0.980)	303731	18.9901	379.8
40	Acenaphthylene	152	11.160	11.160	(0.978)	433588	18.7606	375.2
41	2,6-Dinitrotoluene	165	11.261	11.262	(0.986)	74829	21.6337	432.7
* 42	Acenaphthene-d10	164	11.416	11.417	(1.000)	225568	20.0000	
43	3-Nitroaniline	138	11.459	11.449	(1.004)	205197	50.1895	1004
44	Acenaphthene	153	11.464	11.465	(1.004)	250413	16.6883	333.8
45	2,4-Dinitrophenol	184	11.619	11.614	(1.018)	117976	60.3864	1208
46	Dibenzofuran	168	11.726	11.727	(1.027)	371988	19.8218	396.4
47	4-Nitrophenol	109	11.854	11.855	(1.038)	45958	18.1433	362.9
48	2,4-Dinitrotoluene	165	11.865	11.865	(1.039)	100418	21.6552	433.1
50	Diethylphthalate	149	12.340	12.341	(1.081)	318022	19.2517	385.0
49	Fluorene	166	12.271	12.271	(1.075)	314675	20.7059	414.1
51	4-Chlorophenyl-phenylether	204	12.335	12.341	(1.080)	129021	19.7983	396.0
52	4-Nitroaniline	138	12.431	12.426	(1.089)	86568	19.2550	385.1
53	4,6-Dinitro-2-methylphenol	198	12.506	12.501	(0.911)	159625	61.4276	1229
54	N-Nitrosodiphenylamine	169	12.554	12.555	(0.914)	223326	26.6607	533.2
$ 55	2,4,6-Tribromophenol	330	12.693	12.688	(1.112)	68119	33.9632	679.3
56	4-Bromophenyl-phenylether	248	13.094	13.094	(0.954)	84088	20.8758	417.5
57	Hexachlorobenzene	284	13.270	13.270	(0.967)	90195	23.3756	467.5 (R)
58	Pentachlorophenol	266	13.590	13.591	(0.990)	62210	21.8334	436.7
* 59	Phenanthrene-d10	188	13.729	13.730	(1.000)	319214	20.0000	
60	Phenanthrene	178	13.761	13.762	(1.002)	439014	21.5001	430.0
61	Anthracene	178	13.831	13.837	(1.007)	449590	22.0864	441.7 (R)
62	Carbazole	167	14.151	14.152	(1.031)	457995	24.8539	497.1 (R)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
63	Di-n-butylphthalate	149	14.953	14.953	(1.089)	587786	23.6364	472.7
64	Fluoranthene	202	15.652	15.653	(1.140)	482288	24.9326	498.7 (R)
65	Pyrene	202	15.984	15.990	(0.890)	500140	20.9251	418.5
$ 66	Terphenyl-d14	244	16.374	16.380	(0.912)	308053	21.0329	420.7
67	Butylbenzylphthalate	149	17.303	17.309	(0.964)	277569	23.5761	471.5
68	Benzo(a)anthracene	228	17.928	17.929	(0.999)	487569	23.1020	462.0
* 69	Chrysene-d12	240	17.950	17.955	(1.000)	317063	20.0000	
70	3,3'-Dichlorobenzidine	252	18.003	17.998	(1.003)	301467	42.0250	840.5
71	Chrysene	228	17.987	17.993	(1.002)	421170	19.2164	384.3
72	bis(2-Ethylhexyl)phthalate	149	18.340	18.340	(0.952)	391021	26.0125	520.2
* 134	Di-n-octylphthalate-d4	153	19.264	19.264	(1.000)	541335	20.0000	
73	Di-n-octylphthalate	149	19.269	19.275	(1.000)	652973	21.1144	422.3
74	Benzo(b)fluoranthene	252	19.547	19.553	(0.975)	505624	23.9376	478.8
75	Benzo(k)fluoranthene	252	19.584	19.585	(0.977)	520206	23.6567	473.1
76	Benzo(a)pyrene	252	19.974	19.975	(0.996)	393434	19.2626	385.3
* 77	Perylene-d12	264	20.054	20.055	(1.000)	340057	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	21.385	21.390	(1.066)	461779	18.9695	379.4
79	Dibenzo(a,h)anthracene	278	21.427	21.428	(1.068)	436739	21.6752	433.5
80	Benzo(g,h,i)perylene	276	21.668	21.674	(1.080)	460104	20.5201	410.4
90	N-Nitrosodimethylamine	74	Compound Not Detected.					
91	Aniline	93	6.074	6.069	(0.933)	468089	28.6764	573.5 (R)
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	Compound Not Detected.					
105	1-methylnaphthalene	141	9.910	9.910	(1.154)	238033	20.1302	402.6
111	Azobenzene (1,2-DP-Hydrazine)	77	12.581	12.581	(1.102)	466393	20.8786	417.6

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt6.i
Lab File ID: ns52sb.d
Lab Smp Id: NS52LCSS1
Analysis Type: SV
Quant Type: ISTD
Operator: LJR/VTS
Method File: /chem1/nt6.i/20081008.b/SW846.m
Misc Info: 08-26288

Calibration Date: 08-OCT-2008
Calibration Time: 12:09
Client Smp ID: NS52LCSS1
Level: LOW
Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	118976	59488	237952	121277	1.93
27 Naphthalene-d8	414286	207143	828572	425648	2.74
42 Acenaphthene-d10	208588	104294	417176	225568	8.14
59 Phenanthrene-d10	283346	141673	566692	319214	12.66
69 Chrysene-d12	273753	136876	547506	317063	15.82
134 Di-n-octylphthala	485719	242860	971438	541335	11.45
77 Perylene-d12	342905	171452	685810	340057	-0.83

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.51	6.01	7.01	6.51	-0.01
27 Naphthalene-d8	8.60	8.10	9.10	8.59	-0.07
42 Acenaphthene-d10	11.42	10.92	11.92	11.42	0.00
59 Phenanthrene-d10	13.73	13.23	14.23	13.73	0.00
69 Chrysene-d12	17.96	17.46	18.46	17.95	-0.03
134 Di-n-octylphthala	19.26	18.76	19.76	19.26	0.00
77 Perylene-d12	20.05	19.55	20.55	20.05	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: NS52LCSS1
Level: LOW
Data Type: MS DATA
SpikeList File: PSDDALCS.spk
Sublist File: PSDDAMBLCS.sub
Method File: /chem1/nt6.i/20081008.b/SW846.m
Misc Info: 08-26288

Client SDG: NS52
Fraction: SV
Client Smp ID: NS52LCSS1
Operator: LJR/VTS
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
3 Phenol	500.0	334.6	66.92	37-92
4 Bis(2-Chloroethyl)	500.0	302.5	60.49	40-83
6 2-Chlorophenol	500.0	323.2	64.63	42-80
7 1,3-Dichlorobenzen	500.0	319.7	63.94	39-75
9 1,4-Dichlorobenzen	500.0	317.9	63.59	40-75
11 Benzyl alcohol	1000	511.6	51.16	25-90
12 1,2-Dichlorobenzen	500.0	329.3	65.87	40-76
13 2-Methylphenol	500.0	328.6	65.72	40-86
14 2,2'-oxybis(1-Chlo	500.0	289.9	57.97	26-100
15 4-Methylphenol	1000	697.0	69.70	40-92
16 N-Nitroso-di-n-pro	500.0	338.6	67.73	29-95
17 Hexachloroethane	500.0	308.0	61.60	37-73
19 Nitrobenzene	500.0	366.6	73.32	37-85
20 Isophorone	500.0	386.1	77.22	42-91
21 2-Nitrophenol	500.0	376.3	75.26	40-86
22 2,4-Dimethylphenol	500.0	360.0	72.00	23-85
23 Bis(2-Chloroethoxy	500.0	351.1	70.22	40-87
24 Benzoic acid	1500	1155	76.99	29-104
25 2,4-Dichlorophenol	500.0	408.1	81.63	42-88
26 1,2,4-Trichloroben	500.0	348.3	69.66	40-81
28 Naphthalene	500.0	354.5	70.90	41-80
29 4-Chloroaniline	1200	703.5	58.63	14-80
30 Hexachlorobutadien	500.0	368.2	73.64	37-85
31 4-Chloro-3-methylp	500.0	428.1	85.62	40-94
32 2-Methylnaphthalen	500.0	405.7	81.15	44-82
33 Hexachlorocyclopen	1500	1149	76.59	10-98
34 2,4,6-Trichlorophe	500.0	373.5	74.69	42-88
35 2,4,5-Trichlorophe	500.0	376.8	75.37	41-89
37 2-Chloronaphthalen	500.0	344.5	68.91	42-82
38 2-Nitroaniline	500.0	408.9	81.79	35-101
39 Dimethylphthalate	500.0	379.8	75.96	44-91
40 Acenaphthylene	500.0	375.2	75.04	44-84
41 2,6-Dinitrotoluene	500.0	432.7	86.53	42-97

OK

SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
43 3-Nitroaniline	1280	1004	78.42	25-93
44 Acenaphthene	500.0	333.8	66.75	42-85
45 2,4-Dinitrophenol	1500	1208	80.52	10-179
46 Dibenzofuran	500.0	396.4	79.29	46-84
47 4-Nitrophenol	500.0	362.9	72.57	26-97
48 2,4-Dinitrotoluene	500.0	433.1	86.62	41-101
49 Fluorene	500.0	414.1	82.82	44-88
50 Diethylphthalate	500.0	385.0	77.01	46-94
51 4-Chlorophenyl-phe	500.0	396.0	79.19	44-87
52 4-Nitroaniline	500.0	385.1	77.02	24-89
53 4,6-Dinitro-2-meth	1500	1229	81.90	22-128
54 N-Nitrosodiphenyla	500.0	533.2	106.64	40-111
56 4-Bromophenyl-phen	500.0	417.5	83.50	43-91
57 Hexachlorobenzene	500.0	467.5	93.50	42-90
58 Pentachlorophenol	500.0	436.7	87.33	34-94
60 Phenanthrene	500.0	430.0	86.00	45-90
61 Anthracene	500.0	441.7	88.35*	42-87
62 Carbazole	500.0	497.1	99.42*	43-93
63 Di-n-butylphthalat	500.0	472.7	94.55	48-99
64 Fluoranthene	500.0	498.7	99.73	43-98
65 Pyrene	500.0	418.5	83.70	39-99
67 Butylbenzylphthala	500.0	471.5	94.30	41-105
68 Benzo(a)anthracene	500.0	462.0	92.41	42-94
70 3,3'-Dichlorobenzi	1280	840.5	65.66	14-84
71 Chrysene	500.0	384.3	76.87	45-92
72 bis(2-Ethylhexyl)p	500.0	520.2	OK 104.05	34-111
73 Di-n-octylphthalat	500.0	422.3	84.46	32-107
74 Benzo(b)fluoranthe	500.0	478.8	95.75	43-105
75 Benzo(k)fluoranthe	500.0	473.1	94.63	40-108
76 Benzo(a)pyrene	500.0	385.3	77.05	41-95
78 Indeno(1,2,3-cd)py	500.0	379.4	75.88	28-101
79 Dibenzo(a,h)anthra	500.0	433.5	86.70	32-104
80 Benzo(g,h,i)peryle	500.0	410.4	82.08	18-106
91 Aniline	500.0	573.5	114.71*	10-71
111 Azobenzene (1,2-DP	500.0	417.6	83.51	40-94
90 N-Nitrosodimethyl	500.0	0.000	*	31-75
105 1-methylnaphthalen	500.0	402.6	80.52	43-87

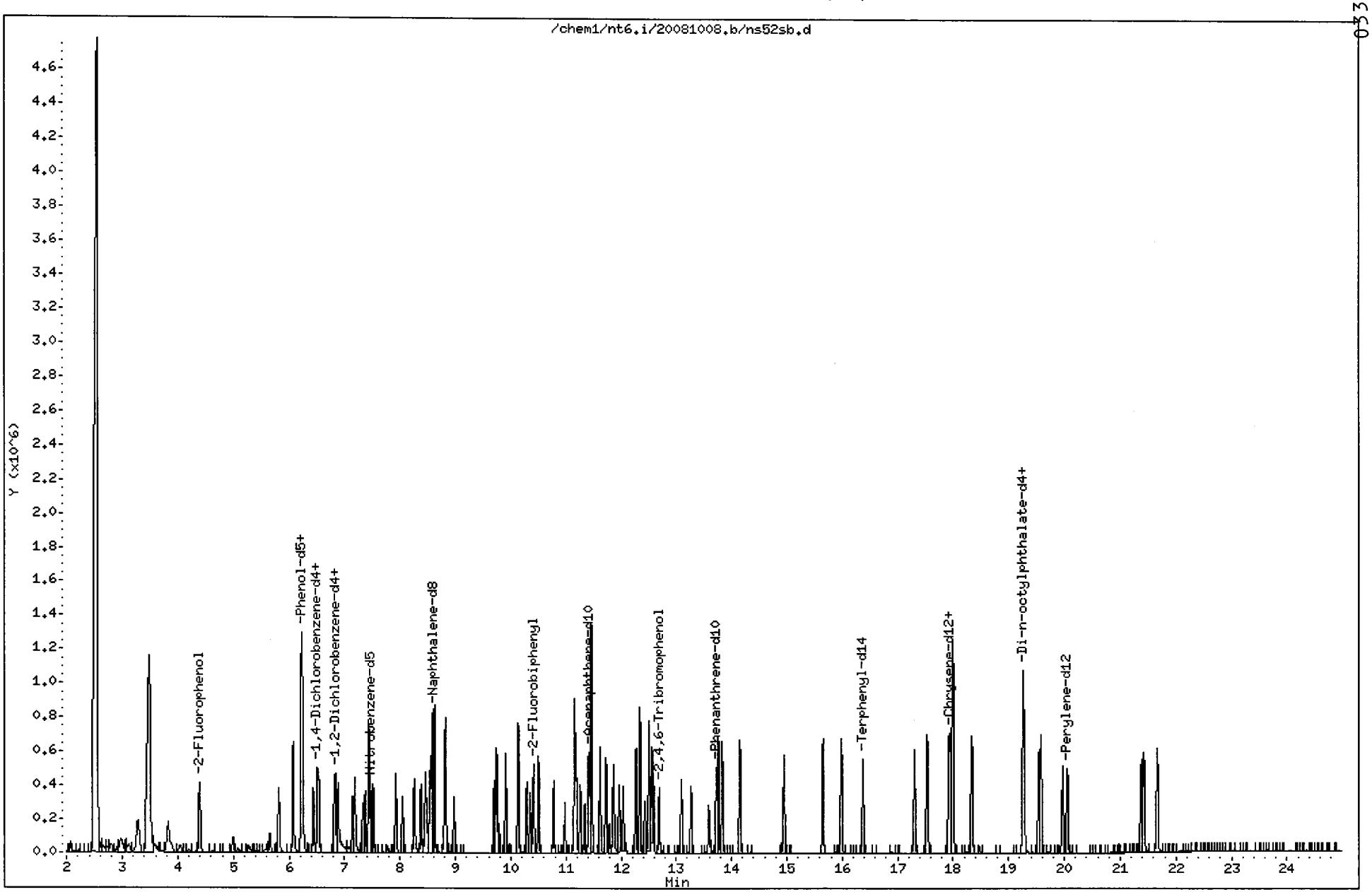
SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	750.0	489.8	65.31	11-106
$ 2 Phenol-d5	750.0	545.1	72.68	31-91
$ 5 2-Chlorophenol-d4	750.0	495.9	66.12	32-91

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 10 1,2-Dichlorobenzen	500.0	321.1	64.22	35-85
$ 18 Nitrobenzene-d5	500.0	324.4	64.88	34-91
$ 36 2-Fluorobiphenyl	500.0	346.6	69.31	37-94
$ 55 2,4,6-Tribromophen	750.0	679.3	90.57	25-117
$ 66 Terphenyl-d14	500.0	420.7	84.13	39-105

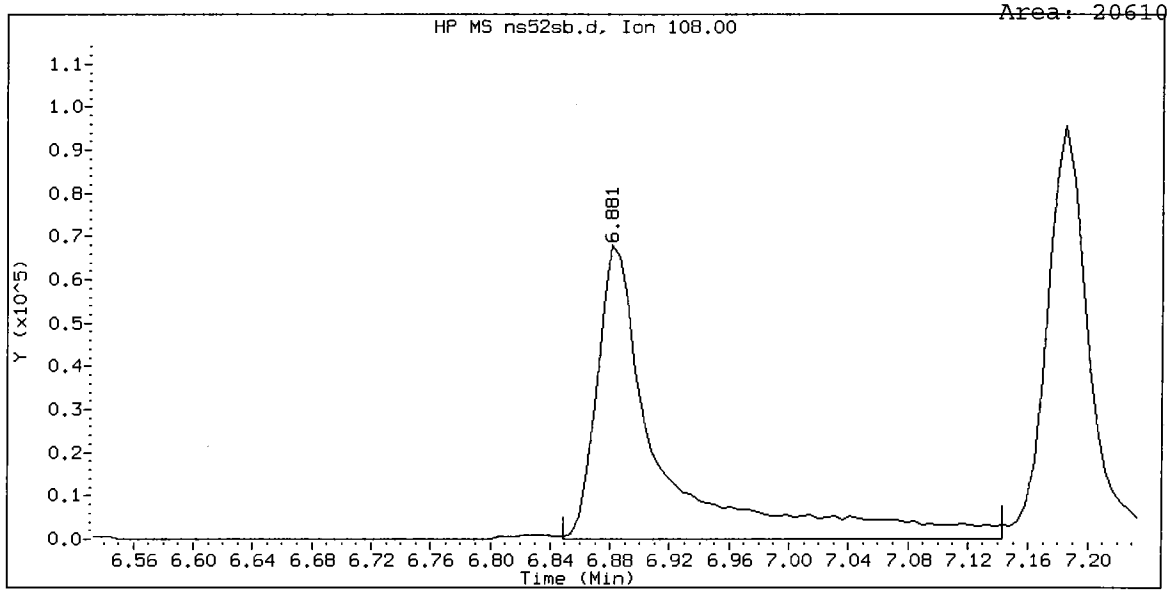
Data File: /chem1/nt6.i/20081008.b/ns52sb.d
Date : 08-OCT-2008 13:16
Client ID: NS52LCSS1
Sample Info: NS52LCSS1
Volume Injected (uL): 1.0
Column phase: ZB-5

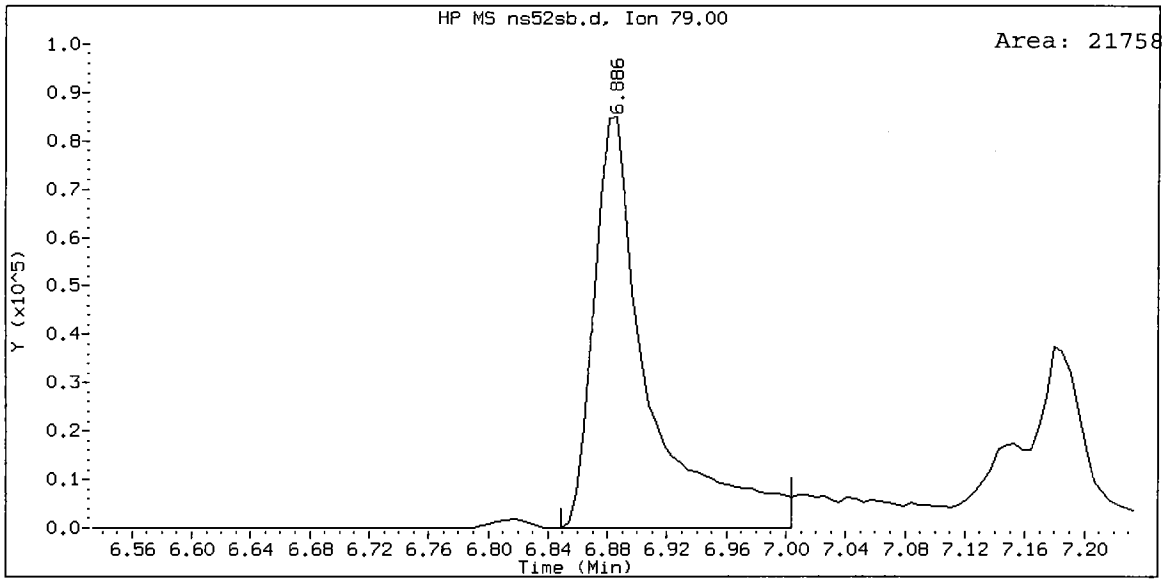
Instrument: nt6.i
Operator: LJR/VTS
Column diameter: 0.32

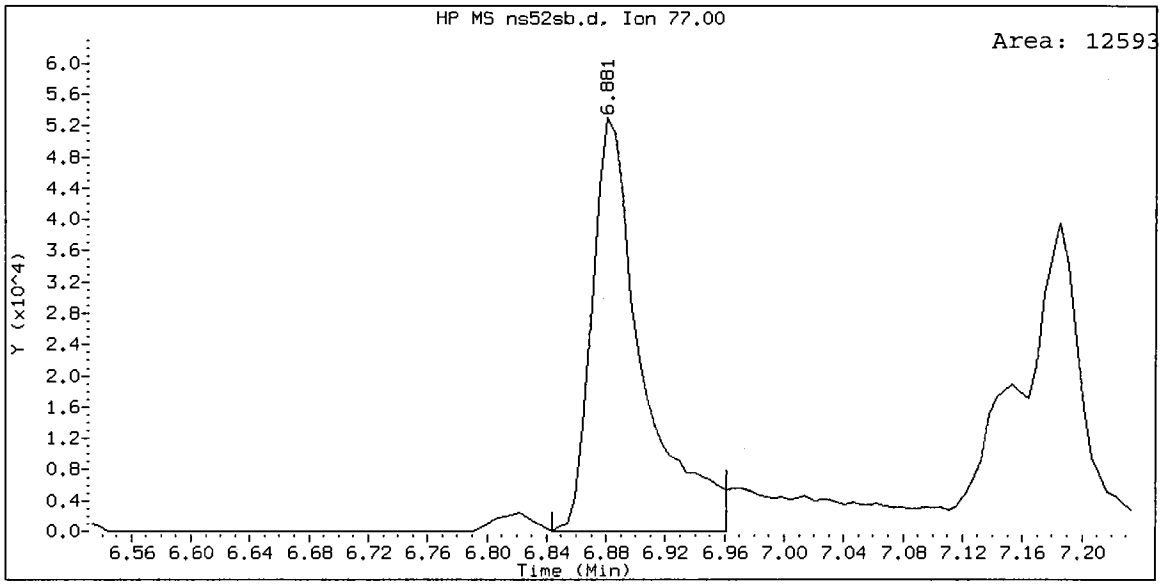
0332



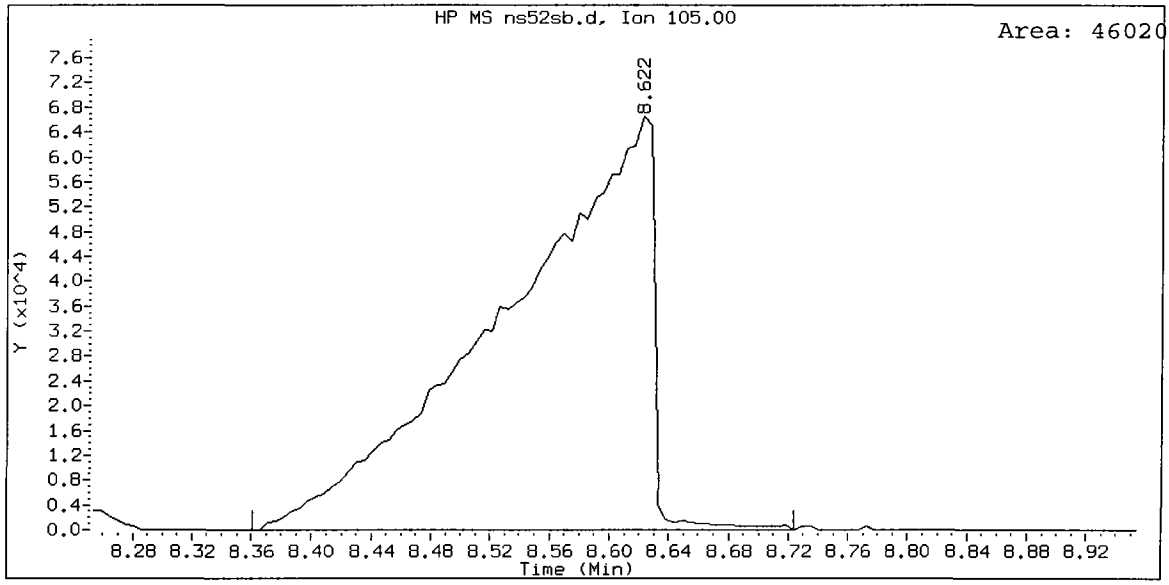
NS52LCSS1, /chem1/nt6.i/20081008.b/ns52sb.d
Benzyl alcohol Amount: 25.58

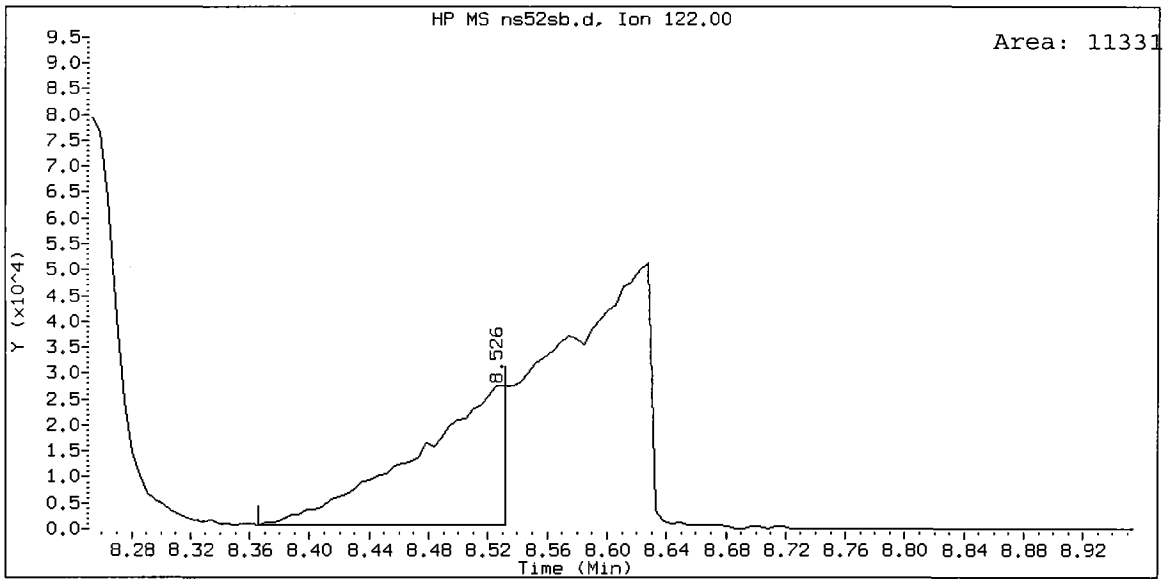


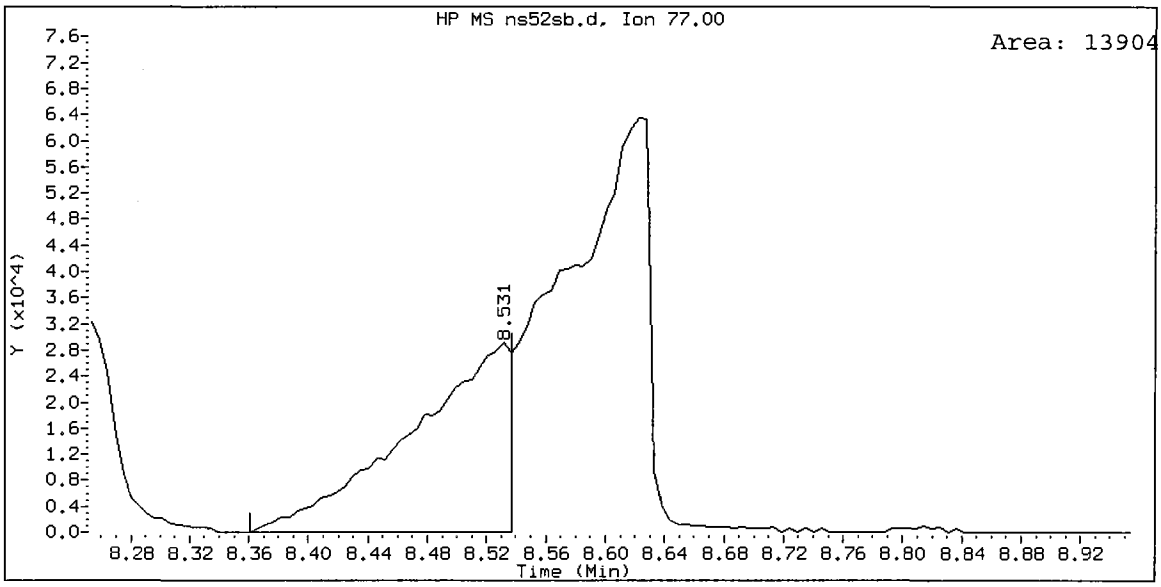




NS52LCSS1, /chem1/nt6.i/20081008.b/ns52sb.d
Benzoic acid Amount: 57.74







Semivolatile Organics
Extraction Bench Sheets/Run Logs

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NOS: NS52

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

PUSH

Organic Extractions Benchsheet

1270 BAN PSDDA–Soil/Sediment
Sonication (3550B) SOP # 374S

Preparation Test BAN # 6 PSDDA

ARI Job No(s) N552 Batch set up by: [illegible]

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted	KD	Turbo Vap 1 2 3	GPC Prep Filter (1:1)	GPC (1:1) 1 or 2 (opt) ~~(REQ)~~ Y/(N)	Post GPC KD	Turbo Vap (1) 2 3	Final Effective Volume	Volume to Lab	Comments
	N552 MBS	Date 10/07/08	25g							0.5mL	0.5mL	5g Actual of Pre-deactivated Sodium Sulfate ~~(10g Actual Wt)~~ ~~(+2mL DI H2O)~~
	↓ SBS	/	↓							↓	↓	↓
	~~SBS Dup.~~		↓							↓	↓	
	N552 C	Checked	46.82									
	CMS		46.37									
	CMSD		46.65									
	↓ E	/	35.28	↓	—	—	—	—	↓	↓	↓	
				MN					CSZ			
Analyst/Date:			AR 10/07/08 →	10/7/08					10/07/08 →			

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	A_1	125µL	3/13/09	AR	TWS
Full List Spike	7	125µL	8/1/09	AR	TWS
Base Spike	12	125µL	7/1/09	AR	TWS
Acid Spike	10	125µL	4/14/09	AR	TWS
Extraction Time:	9:23				

SPECIAL INSTRUCTIONS: 1. Weigh into 600mL or 400mL beakers. 2. ~~De-Activate blanks with ~2mL DI Water~~
3. Extract 2X with 1:1 DCM/Acetone + 1X DCM only. 4. Collect into 500mL flask + Lg funnel with Sulfate + Acidified glasswool.
5. KD (Normal Drying Column+Acidified Glasswool) on 90° bath. (Blanks=only 5g Sodium Sulfate). 6. TurboVap.
7. GPC ~~Required~~ optional (1:1) 8. KD (No drying column) on 80° bath. 9. TurboVap. 10. Vial.
A. Need Total Solids Y (N) B. Archive/Freeze Y (N)

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory
Analyst Notes

ARI Job No.: N552 Client ID: Anchor Environmental, LLC

Parameter: BAN PSDDA Client Project: Eddon Boatyard

SOP Number(s): 3745 **No Anomalies:**

List problems, concerns, corrective actions and any other pertinent information

Analyst Initials:		**Date:**	

Analytical Resources Inc.: Organics Instrument Log

NT-6 Serial No.:GC=US00036167, MS=US81221575

Date: 9/15/08 Analysis: BANs Analyst: LJR

GC Program: ABN10L Column No: 133566 Column Type: 28-5 MS

Instrument Tune (.U or .CT.): 000915 EM Voltage: 1660

Calibration File: 0250915 Curve Date: 9/15/08

IS/SS	Ical/Ccal	LCS/ICV
1506-1	1507-1,2	1433-2,3
	1508-1	1434-1,2
	1509-1	
	1510-1	
	1533-2	

	Time	Filename	LabID	ClientId	DF									
1	1135	0250915.d	ABN 25	ABN 25	1	8.17	134449	10.23	498098	13.11	240116	15.50	337544	19.84	261699	22.00	338505	20.97	511931
2	1210	0800915.d	ABN 80	ABN 80	1	8.18	125935	10.24	476741	13.12	209233	15.51	312154	19.85	249496	22.01	343485	20.97	473284
3	1245	0010915.d	ABN 1	ABN 1	1	8.17	131954	10.23	481484	13.11	241627	15.49	328844	19.83	266315	22.00	316272	20.96	452253
4	1320	0400915.d	ABN 40	ABN 40	1	8.18	128133	10.23	480910	13.11	221964	15.50	313463	19.84	279478	22.00	361684	20.97	560095
5	1355	0050915.d	ABN 5	ABN 5	1	8.17	135668	10.23	494928	13.11	245421	15.50	333797	19.83	291277	22.00	355280	20.97	549720
6	1430	0100915.d	ABN 10	ABN 10	1	8.18	126469	10.23	467169	13.11	229149	15.50	321497	19.83	246896	22.00	288252	20.96	397960
7	1505	icv0915.d	ABN ICV		1	8.17	137310	10.23	515088	13.11	253271	15.50	365143	19.84	269681	22.00	300552	20.97	389987

LJR 9/16/08

Maintenance / Comments New column. New liner + wool. Cleaned inlet seal.

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): 0250915

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: NTG Curve Client ID: ARI

ARI SOP: **801S**(SIM-PNA) **802S**(BTS-HX) **803S**(BTS-PW) (**804S**(8270D)) **805S**(BTS-ET)

Parameter(s): BANs

Instrument: NT-1 NT-2 NT-4 (NT-6)

Curve Date: 9/15/00 Analysis Start Date: —

DFTPP Tune Meets Criteria?	(YES) / NO	Method Blank in Control?	~~YES / NO~~
DDT Breakdown <20%?	(YES) / NO / NA	LCS / LCSD Recovery in Control?	(YES) / NO
Peak Tailing Factor in Control?	(YES) / NO / NA	MS/MSD Recovery in Control?	~~YES / NO~~
ICal Meets RF & %RSD Criteria?	(YES) / NO	Surrogate Recovery in Control?	~~YES / NO~~
CCal Meets RF & %RSD Criteria?	~~YES / NO~~	Special Analysis Criteria Met?	(YES) / NO / NA
Internal Standard Meets Criteria?	(YES) / NO		

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary): — Lots of quadratic fits. See Ical summary sheet.

LJK
9/15/00

Additional Details on Reverse: Yes / (No)

Analyst Signature: [signature] **Date:** 9/15/00

Reviewer's Signature: [signature] **Date:** 9/15/00

Analytical Resources Inc.: Organics Instrument Log
NT-6 Serial No.:GC=US00036167, MS=US81221575

Date: 10/8/08 Analysis: BANs Analyst: LJK

GC Program: ADNIUL Column No: 133580 Column Type: ZB-5 MS;

Instrument Tune (.U or .CT.): 080915 EM Voltage: 1612

Calibration File: cc1008 Curve Date: 9/15/08

IS/SS	Ical/Ccal	LCS/ICV
1506-1	1507-1,2	
	1508-1	
	1509-1	
	1510-1	

Time	Filename	LabID	ClientId	DF												
209	cc1008.d	ABN 25	ABN CCAL	1	6.51	118976	8.60	414286	11.42	208588	13.73	283346	17.96	273753	20.05	342905	19.26	485719
243	ns52mb.d	NS52MBS1	NS52MBS1	1	6.51	121345	8.59	443238	11.41	227190	13.72	321172	17.94	321825	19.26	554954	20.05	327598
316	ns52sb.d	NS52LCSS1	NS52LCSS1	1	6.51	121277	8.59	425648	11.42	225568	13.73	319214	17.95	317063	19.26	541335	20.05	340057
150	nq23mb.d	NQ23MBS1	NQ23MBS1	1	6.51	110345	8.59	403613	11.41	207093	13.72	293990	17.94	303889	19.26	520740	20.05	296434
24	nq23sb.d	NQ23LCSS1	NQ23LCSS1	1	6.51	117553	8.59	394832	11.41	196849	13.73	264919	17.95	261328	19.26	459177	20.05	308483
58	nq03m2.d	NQ03M	1C-03-VC-L-2-3	1	6.51	109599	8.59	382828	11.41	188425	13.72	266082	17.95	291426	19.27	496993	20.06	306464
32	nq03n.d	NQ03N	1C-04-VC-L-2-3	1	6.52	121793	8.59	431096	11.41	208455	13.72	274945	17.94	283274	19.26	502391	20.05	325861
06	nq03nms.d	NQ03NMS	1C-04-VC-L-2-3 MS	1	6.51	123390	8.59	436702	11.41	210862	13.72	275955	17.95	278982	19.26	481834	20.05	331677
0	nq03nmd.d	NQ03NMSD	1C-04-VC-L-2-3 MSD	1	6.51	120883	8.59	417019	11.42	200924	13.72	275962	17.95	292029	19.26	500848	20.05	337331
4	nq03o.d	NQ03O	1C-05-VC-L-3-4	1	6.52	115614	8.59	404620	11.41	205537	13.73	294402	17.95	320360	19.26	541814	20.06	333322
8	nq03p.d	NQ03P	1C-06-VC-L-2-3	1	6.51	116917	8.59	398281	11.41	195920	13.73	271145	17.95	300822	19.26	508430	20.06	317628
2	nq03q.d	NQ03Q	1C-07-VC-L-2-3	1	6.51	116146	8.59	391040	11.42	195642	13.73	273075	17.97	284274	19.29	466281	20.09	292691
	nq03r.d	NQ03R	1C-07-VC-L-6-7	1	6.51	119431	8.59	418029	11.41	208673	13.72	276116	17.95	313131	19.26	536077	20.05	330959
	nq03s.d	NQ03S	1C-08-VC-L-3-4	1	6.51	118324	8.59	414008	11.41	207860	13.73	295827	17.95	317245	19.26	536579	20.06	329311
	np20cre.d	NP20C	GTSP08-3-3-5	1	6.51	117851	8.59	408731	11.42	192564	13.72	269959	17.95	312151	19.26	527141	20.06	324840
	ns52c.d	NS52C	EB-SE03-A-081003	1	6.51	116400	8.59	410906	11.41	215762	13.72	315456	17.95	306859	19.26	521813	20.06	305820
	ns52cms.d	NS52CMS	EB-SE03-A-08100 MS	1	6.51	124563	8.59	434483	11.42	238491	13.73	342519	17.96	322018	19.27	535098	20.06	303518
	ns52cmd.d	NS52CMSD	EB-SE03-A-08100 MSD	1	6.51	121610	8.59	425001	11.42	232817	13.73	336817	17.96	317483	19.27	525198	20.07	289378
	ns52e.d	NS52E	EB-SE04-A-081003	1	6.51	123232	8.59	437686	11.41	234877	13.73	332627	17.95	330116	19.26	560190	20.06	286300
	nq23a.d	NQ23A	SD08-09-1-3	1	6.51	119957	8.59	425426	11.41	223909	13.72	335583	17.94	337587	19.26	570223	20.05	278091
	nq23b.d	NQ23B	ESS08-01-0-0.5	3	6.51	108450	8.59	369956	11.41	191425	13.73	305812	17.95	329409	19.26	565347	20.06	263366
	nq23c.d	NQ23C	ESS08-01-0.5-1	1	6.51	129492	8.59	471730	11.41	239110	13.72	356063	17.94	352227	19.26	596408	20.05	267664

enance / Comments New liner+wool. Clipped column. Cleaned inlet seal.

LJK 10/10/08

nance Verification (Identify ICal or CCal that demonstrates the instrument is in control): cc1008

ust contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: NS52 Client ID: Anchor

ARI SOP: **801S**(SIM-PNA) **802S**(BTS-HX) **803S**(BTS-PW) **804S**(8270D) **805S**(BTS-ET)

Parameter(s): BANs

Instrument: NT-1 NT-2 NT-4 (NT-6)

Curve Date: 9/15/06 Analysis Start Date: 10/8/06

DFTPP Tune Meets Criteria?	(YES) / NO	Method Blank in Control?	(YES) / NO
DDT Breakdown <20%?	(YES) / NO / NA	LCS / LCSD Recovery in Control?	(YES) / NO
Peak Tailing Factor in Control?	(YES) / NO / NA	MS/MSD Recovery in Control?	(YES) / NO
ICal Meets RF & %RSD Criteria?	(YES) / NO	Surrogate Recovery in Control?	(YES) / NO
CCal Meets RF & %RSD Criteria?	(YES) / NO	Special Analysis Criteria Met?	(YES) / NO / NA
Internal Standard Meets Criteria?	(YES) / NO		

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

LJK
10/9/06

Additional Details on Reverse: Yes / (No)

Analyst Signature: [signature] **Date:** 10/9/06

Reviewer's Signature: [signature] **Date:** 10/9/06

SIM SVOA Analysis
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NOS: NS52

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02

Client ID	FBP	PHL	FPH	CPL	DCB	NBZ	TBP	TER	TOT OUT
EB-SE03-A-081003	77.2%	71.5%	83.2%	84.0%	64.4%	79.2%	40.5%	84.8%	0
MB-100608	68.0%	72.0%	78.9%	76.5%	62.0%	69.6%	53.9%	98.4%	0
LCS-100608	76.4%	70.7%	82.4%	83.7%	66.0%	66.8%	92.8%	107%	0
EB-SE04-A-081003	74.4%	72.3%	80.0%	79.7%	64.4%	77.2%	59.5%	86.0%	0
EB-SE04-A-081003 MS	76.0%	82.4%	79.7%	82.9%	64.8%	81.2%	61.1%	86.4%	0
EB-SE04-A-081003 MSD	79.2%	92.8%	80.3%	81.6%	65.2%	83.2%	57.9%	90.8%	0

	LCS/MB LIMITS	QC LIMITS
(FBP) = 2-Fluorobiphenyl	(30-160)	(30-160)
(PHL) = d5-Phenol	(30-160)	(30-160)
(FPH) = 2-Fluorophenol	(30-160)	(30-160)
(CPL) = d4-2-Chlorophenol	(30-160)	(30-160)
(DCB) = d4-1,2-Dichlorobenzene	(30-160)	(30-160)
(NBZ) = d5-Nitrobenzene	(30-160)	(30-160)
(TBP) = 2,4,6-Tribromophenol	(30-160)	(30-160)
(TER) = d14-p-Terphenyl	(30-160)	(30-160)

Prep Method: SW3550B
Log Number Range: 08-26288 to 08-26290

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by Selected Ion Monitoring GC/MS **Sample ID: EB-SE04-A-081003**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: NS52E
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted MS/MSD: 10/06/08

Sample Amount MS: 16.9 g-dry-wt
MSD: 17.3 g-dry-wt

Date Analyzed MS: 10/07/08 18:58
MSD: 10/07/08 19:31

Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL

Instrument/Analyst MS: NT2/VTS
MSD: NT2/VTS

Dilution Factor MS: 1.00
MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Dibenz(a,h)anthracene	13.9	88.8	148	50.6%	88.4	145	51.4%	0.5%
1,4-Dichlorobenzene	< 5.8 U	105	148	70.9%	108	145	74.5%	2.8%
1,2,4-Trichlorobenzene	< 5.8 U	108	148	73.0%	112	145	77.2%	3.6%
Hexachlorobenzene	< 5.8 U	127	148	85.8%	130	145	89.7%	2.3%
Hexachlorobutadiene	< 5.8 U	102	148	68.9%	108	145	74.5%	5.7%
Butylbenzylphthalate	< 14.5 U	118	148	79.7%	123	145	84.8%	4.1%
2-Methylphenol	< 5.8 U	92.9	148	62.8%	95.4	145	65.8%	2.7%
2,4-Dimethylphenol	< 5.8 U	103	148	69.6%	92.5	145	63.8%	10.7%
N-Nitrosodiphenylamine	< 5.8 U	141	148	95.3%	135	145	93.1%	4.3%
Benzyl Alcohol	< 28.9 U	< 29.6 U	296	NA	< 28.9 U	289	NA	NA
Pentachlorophenol	< 28.9 U	130	148	87.8%	133	145	91.7%	2.3%
1,2-Dichlorobenzene	< 5.8 U	102	148	68.9%	106	145	73.1%	3.8%

Reported in µg/kg (ppb)

NA-No recovery due to high concentration of analyte in original sample, calculated negative recovery, or undetected spike.
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by Selected Ion Monitoring GC/MS **Sample ID: LCS-100608**
Page 1 of 1 **LAB CONTROL SAMPLE**

Lab Sample ID: LCS-100608
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 10/06/08
Date Analyzed LCS: 10/07/08 14:32
Instrument/Analyst LCS: NT2/VTS

Sample Amount LCS: 16.0 g-dry-wt
Final Extract Volume LCS: 1.0 mL
Dilution Factor LCS: 1.00

Analyte	LCS	Spike Added	Recovery
Dibenz(a,h)anthracene	131	156	84.0%
1,4-Dichlorobenzene	115	156	73.7%
1,2,4-Trichlorobenzene	113	156	72.4%
Hexachlorobenzene	124	156	79.5%
Hexachlorobutadiene	107	156	68.6%
Butylbenzylphthalate	142	156	91.0%
2-Methylphenol	132	156	84.6%
2,4-Dimethylphenol	93.1	156	59.7%
N-Nitrosodiphenylamine	153	156	98.1%
Benzyl Alcohol	93.8	312	30.1%
Pentachlorophenol	134	156	85.9%
1,2-Dichlorobenzene	109	156	69.9%

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

2-Fluorobiphenyl	76.4%
d5-Phenol	70.7%
2-Fluorophenol	82.4%
d4-2-Chlorophenol	83.7%
d4-1,2-Dichlorobenzene	66.0%
d5-Nitrobenzene	66.8%
2,4,6-Tribromophenol	92.8%
d14-p-Terphenyl	107%

4B

SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

NS52MBS1

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS52 Project: EDDON BOATYARD

Lab File ID: NS52MBR Date Extracted: 10/06/08

Instrument ID: NT2 Date Analyzed: 10/07/08

Matrix: SOLID Time Analyzed: 1615

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	NS52LCSS1	NS52LCSS1	NS52SB	10/07/08
02	EB-SE03-A-081003	NS52C	NS52C	10/07/08
03	EB-SE04-A-081003	NS52E	NS52E	10/07/08
04	EB-SE04-A-08100	NS52EMS	NS52EMS	10/07/08
05	EB-SE04-A-08100	NS52EMSD	NS52EMSD	10/07/08
06				
07				
08				
09				
10				
11				
12				
13				
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30				

COMMENTS:

FORM IV SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

Instrument ID: NT2 Project: EDDON BOATYARD

DFTPP Injection Date: 09/11/08 DFTPP Injection Time: 1131

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 80.0% of mass 198	59.8	
68	Less than 2.0% of mass 69	0.1	(0.1)1
69	Mass 69 relative abundance	67.5	
70	Less than 2.0% of mass 69	0.5	(0.7)1
127	25.0 - 75.0% of mass 198	61.0	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	7.0	
275	10.0 - 30.0% of mass 198	24.2	
365	Greater than 0.75% of mass 198	3.64	
441	Present, but less than mass 443	12.3	
442	40.0 - 110.0% of mass 198	85.7	
443	15.0 - 24.0% of mass 442	16.8	(19.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		ABN 2.5	IC091101	09/11/08	1209
02		ABN 20	IC091102	09/11/08	1242
03		ABN 0.1	IC091103	09/11/08	1315
04		ABN 10	IC091104	09/11/08	1348
05		ABN 0.5	IC091105	09/11/08	1421
06		ABN 5	IC091106	09/11/08	1454
07		ABN 1	IC091107	09/11/08	1527
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

Instrument ID: NT2 Project: EDDON BOATYARD

DFTPP Injection Date: 10/07/08 DFTPP Injection Time: 1309

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	59.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	64.6
70	Less than 2.0% of mass 69	0.4 (0.7)1
127	25.0 - 75.0% of mass 198	60.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	25.2
365	Greater than 0.75% of mass 198	3.18
441	Present, but less than mass 443	13.0
442	40.0 - 110.0% of mass 198	91.5
443	15.0 - 24.0% of mass 442	17.9 (19.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		CC1007	CC1007	10/07/08	1327
02	NS52LCSS1	NS52LCSS1	NS52SB	10/07/08	1432
03	NS52MBS1	NS52MBS1	NS52MBR	10/07/08	1615
04	EB-SE03-A-081003	NS52C	NS52C	10/07/08	1753
05	EB-SE04-A-081003	NS52E	NS52E	10/07/08	1825
06	EB-SE04-A-08100	NS52EMS	NS52EMS	10/07/08	1858
07	EB-SE04-A-08100	NS52EMSD	NS52EMSD	10/07/08	1931
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V SV

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS52 Project: EDDON BOATYARD

Cont. Calib. ID: CC1007 Date Analyzed: 10/07/08

Instrument ID: NT2 Time Analyzed: 1327

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
	12 HOUR STD	135442		6.40		453834		8.07		220455		10.44	
	UPPER LIMIT	270884		6.90		907668		8.57		440910		10.94	
	LOWER LIMIT	67721		5.90		226917		7.57		110228		9.94	
	CLIENT SAMP. NO.												
01	NS52LCSS1	150973		6.38		509310		8.07		250834		10.44	
02	NS52MBS1	123527		6.38		414145		8.07		205354		10.42	
03	EB-SE03-A-08	139630		6.38		475121		8.07		235730		10.42	
04	EB-SE04-A-08	150254		6.38		506614		8.05		254269		10.42	
05	EB-SE04-A-08	154785		6.38		513583		8.05		259151		10.42	
06	EB-SE04-A-08	154297		6.38		507000		8.05		257090		10.42	
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS52 Project: EDDON BOATYARD

Cont. Calib. ID: CC1007 Date Analyzed: 10/07/08

Instrument ID: NT2 Time Analyzed: 1327

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	323435		12.38		272204		15.94		284259		17.73	
	UPPER LIMIT	646870		12.88		544408		16.44		568518		18.23	
	LOWER LIMIT	161718		11.88		136102		15.44		142130		17.23	
	CLIENT SAMP. NO.												
01	NS52LCSS1	396440		12.38		305193		15.94		261905		17.73	
02	NS52MBS1	307320		12.38		248371		15.95		162127		17.71	
03	EB-SE03-A-08	351856		12.38		314271		15.94		363363		17.73	
04	EB-SE04-A-08	382010		12.38		326408		15.94		378489		17.73	
05	EB-SE04-A-08	379515		12.38		322830		15.94		361376		17.73	
06	EB-SE04-A-08	376413		12.38		332152		15.94		363396		17.73	
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-2

SIM SVOA Analysis
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NOS: NS52

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by Selected Ion Monitoring GC/MS **Sample ID: EB-SE03-A-081003**
Page 1 of 1 **SAMPLE**

Lab Sample ID: NS52C
LIMS ID: 08-26288
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/06/08
Date Analyzed: 10/07/08 17:53
Instrument/Analyst: NT2/VTS
GPC Cleanup: No
Silica Gel Cleanup: No
Alumina Cleanup: No

Sample Amount: 16.8 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 45.1%

CAS Number	Analyte	RL	Result
53-70-3	**Dibenz(a,h)anthracene**	**6.0**	**21**
106-46-7	1,4-Dichlorobenzene	6.0	< 6.0 U
120-82-1	1,2,4-Trichlorobenzene	6.0	< 6.0 U
118-74-1	Hexachlorobenzene	6.0	< 6.0 U
87-68-3	Hexachlorobutadiene	6.0	< 6.0 U
85-68-7	Butylbenzylphthalate	15	< 15 U
95-48-7	2-Methylphenol	6.0	< 6.0 U
105-67-9	2,4-Dimethylphenol	6.0	< 6.0 U
86-30-6	N-Nitrosodiphenylamine	6.0	< 6.0 U
100-51-6	Benzyl Alcohol	30	< 30 U
87-86-5	Pentachlorophenol	30	< 30 U
95-50-1	1,2-Dichlorobenzene	6.0	< 6.0 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

2-Fluorobiphenyl	77.2%	d5-Phenol	71.5%
2-Fluorophenol	83.2%	d4-2-Chlorophenol	84.0%
d4-1,2-Dichlorobenzene	64.4%	d5-Nitrobenzene	79.2%
2,4,6-Tribromophenol	40.5%	d14-p-Terphenyl	84.8%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt2.i/20081007.b/ns52c.d
Lab Smp Id: NS52C Client Smp ID: EB-SE03-A-081003
Inj Date : 07-OCT-2008 17:53
Operator : VTS Inst ID: nt2.i
Smp Info : NS52C
Misc Info : 08-26288
Comment :
Method : /chem3/nt2.i/20081007.b/SIMABN.m
Meth Date : 07-Oct-2008 15:24 van Quant Type: ISTD
Cal Date : 11-SEP-2008 14:21 Cal File: ic091105.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: wind.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	30.60000	Weight of sample extracted (g)
M	45.10000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
$	1 2-Fluorophenol	112	4.823	4.768	(0.756)	289089	3.12330	185.9
$	2 Phenol-d5	99	6.091	6.068	(0.955)	337382	2.67931	159.5
$	5 2-Chlorophenol-d4	132	6.153	6.146	(0.964)	293872	3.14982	187.5
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	6.380	6.398	(1.000)	139630	2.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	6.640	6.640	(1.041)	100058	1.61310	96.02
	11 Benzyl alcohol	79	Compound Not Detected.					
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.157	7.157	(0.887)	295248	1.98231	118.0
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)
*	27 Naphthalene-d8	136	8.066	8.066	(1.000)	475121	2.00000	
	30 Hexachlorobutadiene	225	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	9.572	9.572	(0.919)	360280	1.93279	115.1
	39 Dimethylphthalate	163	10.178	10.177	(0.977)	461532	~~2.38776~~	140.9 NR
*	42 Acenaphthene-d10	162	10.420	10.437	(1.000)	235730	2.00000	
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	11.544	11.497	(0.932)	33458	1.52333	90.68
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	12.383	12.383	(1.000)	351856	2.00000	
$	66 Terphenyl-d14	244	14.586	14.585	(0.915)	263457	2.11888	126.1 J
	67 Butylbenzylphthalate	149	15.326	15.325	(0.961)	32374	0.22348	13.30
*	69 Chrysene-d12	240	15.944	15.944	(1.000)	314271	2.00000	
*	77 Perylene-d12	264	17.729	17.729	(1.000)	363363	2.00000	
	79 Dibenzo(a,h)anthracene	278	18.883	18.883	(1.065)	89725	0.35839	21.33
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					

VTS

10-8-2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ns52c.d
Lab Smp Id: NS52C
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20081007.b/SIMABN.m
Misc Info: 08-26288

Calibration Date: 07-OCT-2008
Calibration Time: 13:27
Client Smp ID: EB-SE03-A-081003
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	135442	67721	270884	139630	3.09
27 Naphthalene-d8	453834	226917	907668	475121	4.69
42 Acenaphthene-d10	220455	110228	440910	235730	6.93
59 Phenanthrene-d10	323435	161718	646870	351856	8.79
69 Chrysene-d12	272204	136102	544408	314271	15.45
77 Perylene-d12	284259	142130	568518	363363	27.83

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.40	5.90	6.90	6.38	-0.27
27 Naphthalene-d8	8.07	7.57	8.57	8.07	0.00
42 Acenaphthene-d10	10.44	9.94	10.94	10.42	-0.16
59 Phenanthrene-d10	12.38	11.88	12.88	12.38	0.00
69 Chrysene-d12	15.94	15.44	16.44	15.94	0.00
77 Perylene-d12	17.73	17.23	18.23	17.73	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

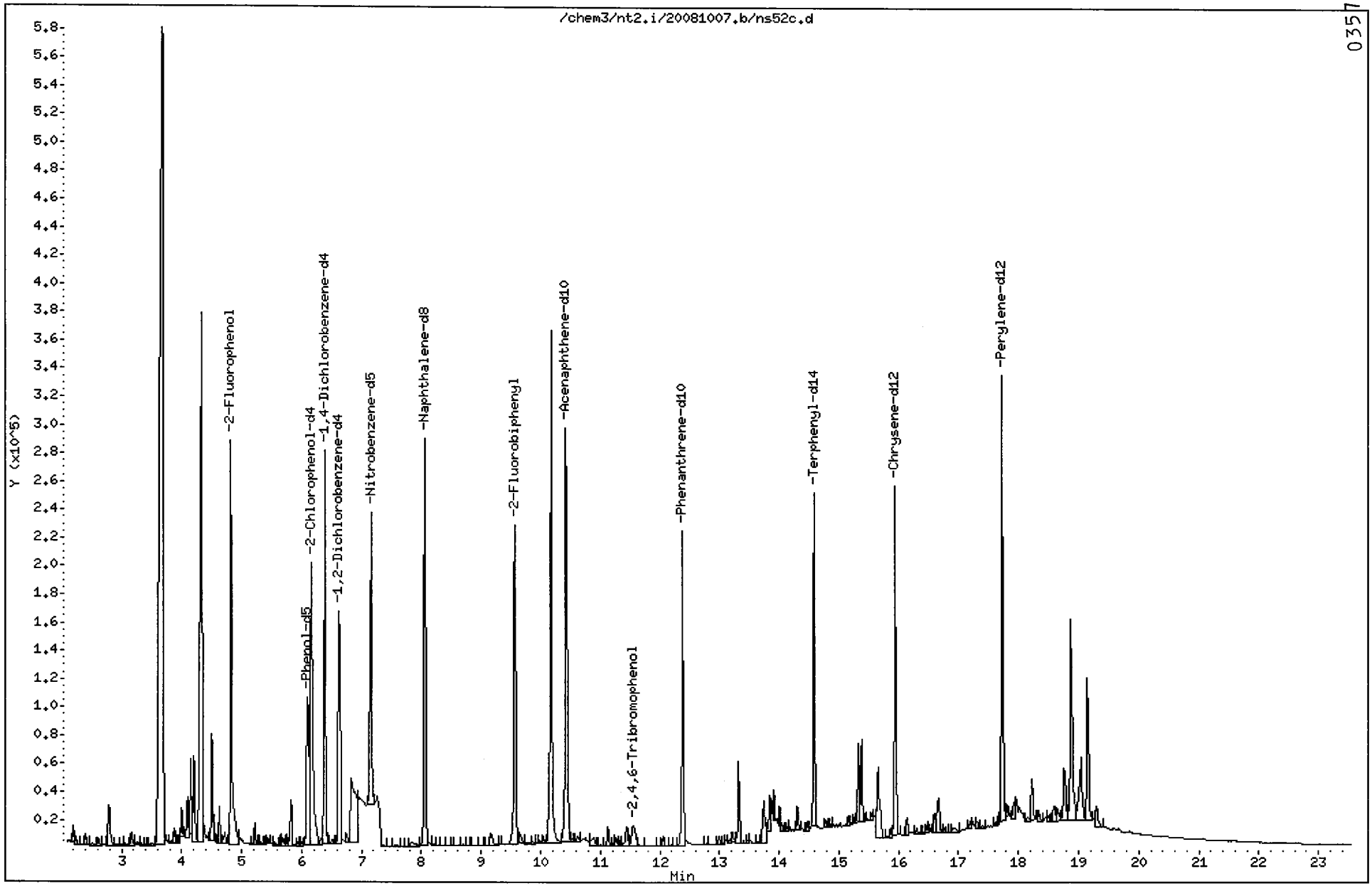
Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: NS52C
Level: LOW
Data Type: MS DATA
SpikeList File: wind.spk
Sublist File: wind.sub
Method File: /chem3/nt2.i/20081007.b/SIMABN.m
Misc Info: 08-26288

Client SDG: NS52
Fraction: SV
Client Smp ID: EB-SE03-A-081003
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	223.2	185.9	83.29	30-160
$ 2 Phenol-d5	223.2	159.5	71.45	30-160
$ 5 2-Chlorophenol-d4	223.2	187.5	84.00	30-160
$ 10 1,2-Dichlorobenzen	148.8	96.02	64.52	30-160
$ 18 Nitrobenzene-d5	148.8	118.0	79.29	30-160
$ 36 2-Fluorobiphenyl	148.8	115.1	77.31	30-160
$ 55 2,4,6-Tribromophen	223.2	90.68	40.62	30-160
$ 66 Terphenyl-d14	148.8	126.1	84.76	30-160

Data File: /chem3/nt2.i/20081007.b/ns52c.d
Date : 07-OCT-2008 17:53
Client ID: EB-SE03-A-081003
Sample Info: NS52C
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i
Operator: VTS
Column diameter: 0.32



Data File: /chem3/nt2.i/20081007.b/ns52c.d

Date : 07-OCT-2008 17:53

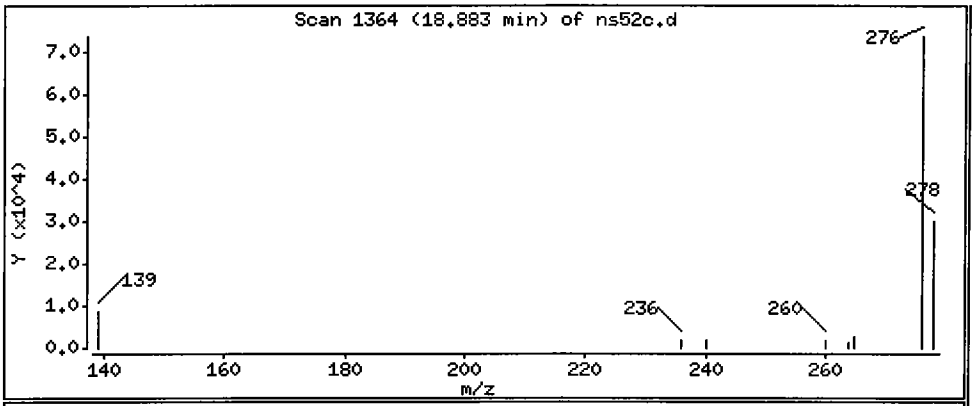
Client ID: EB-SE03-A-081003 Instrument: nt2.i

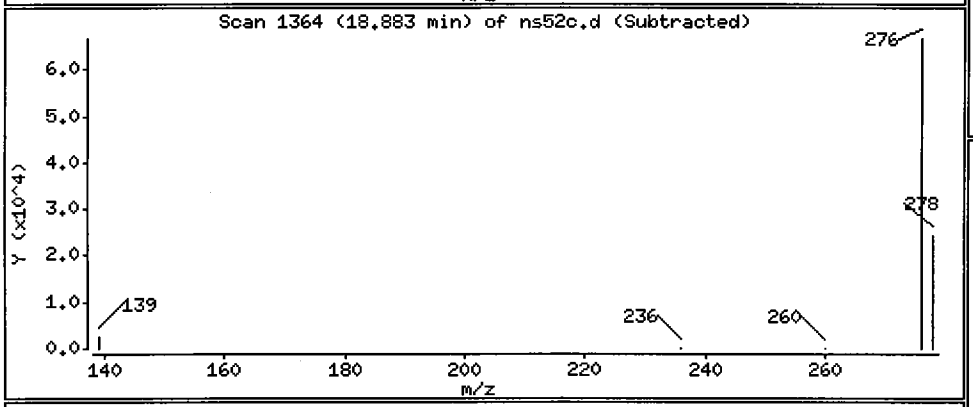
Sample Info: NS52C

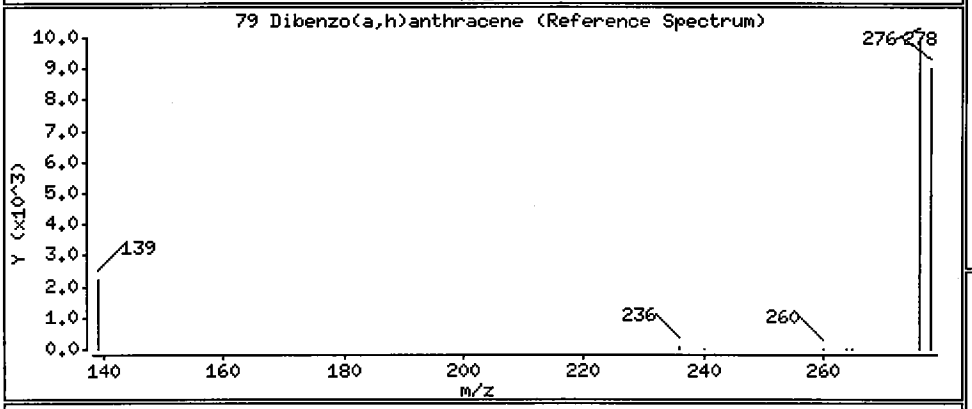
Volume Injected (uL): 2.0 Operator: VTS

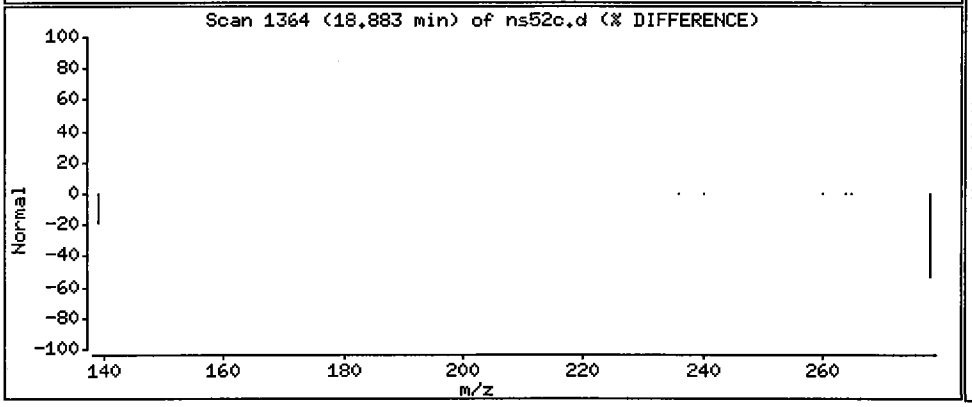
Column phase: ZB-5 Column diameter: 0.32

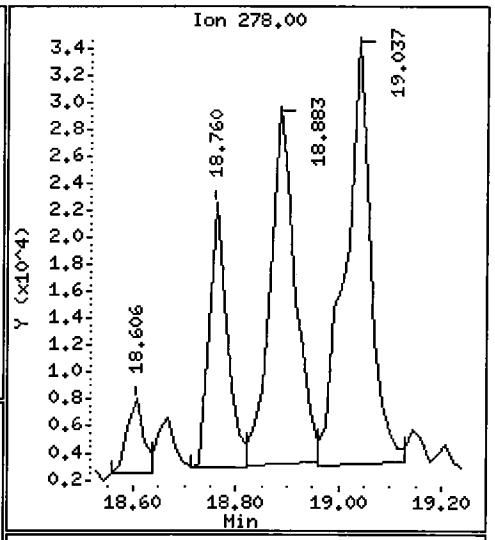
79 Dibenzo(a,h)anthracene Concentration: 21.33 ug/kg

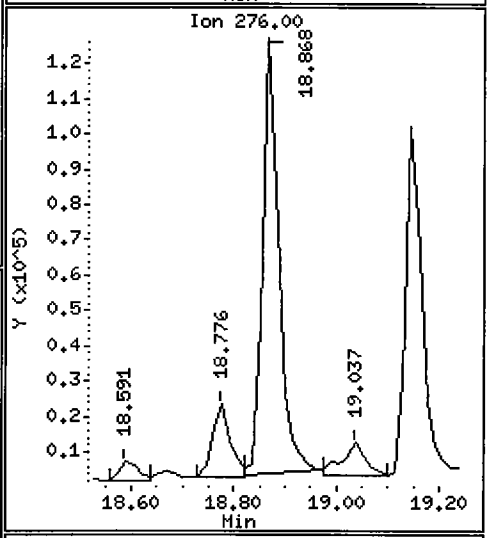


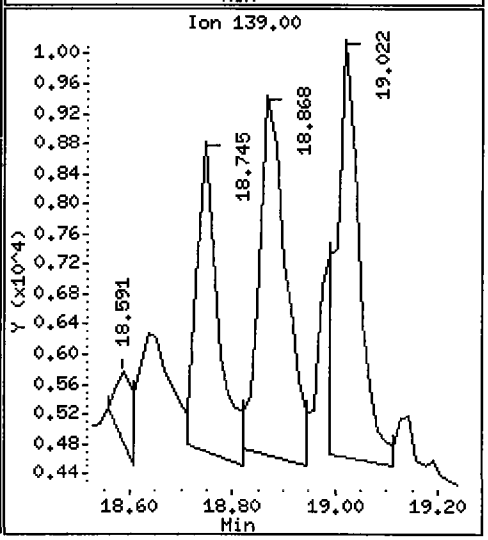












ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by Selected Ion Monitoring GC/MS **Sample ID: EB-SE04-A-081003**
Page 1 of 1 **SAMPLE**

Lab Sample ID: NS52E
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/06/08
Date Analyzed: 10/07/08 18:25
Instrument/Analyst: NT2/VTS
GPC Cleanup: No
Silica Gel Cleanup: No
Alumina Cleanup: No

Sample Amount: 17.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 27.5%

CAS Number	Analyte	RL	Result
53-70-3	**Dibenz(a,h)anthracene**	**5.8**	**14**
106-46-7	1,4-Dichlorobenzene	5.8	< 5.8 U
120-82-1	1,2,4-Trichlorobenzene	5.8	< 5.8 U
118-74-1	Hexachlorobenzene	5.8	< 5.8 U
87-68-3	Hexachlorobutadiene	5.8	< 5.8 U
85-68-7	Butylbenzylphthalate	14	< 14 U
95-48-7	2-Methylphenol	5.8	< 5.8 U
105-67-9	2,4-Dimethylphenol	5.8	< 5.8 U
86-30-6	N-Nitrosodiphenylamine	5.8	< 5.8 U
100-51-6	Benzyl Alcohol	29	< 29 U
87-86-5	Pentachlorophenol	29	< 29 U
95-50-1	1,2-Dichlorobenzene	5.8	< 5.8 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

2-Fluorobiphenyl	74.4%	d5-Phenol	72.3%
2-Fluorophenol	80.0%	d4-2-Chlorophenol	79.7%
d4-1,2-Dichlorobenzene	64.4%	d5-Nitrobenzene	77.2%
2,4,6-Tribromophenol	59.5%	d14-p-Terphenyl	86.0%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt2.i/20081007.b/ns52e.d
Lab Smp Id: NS52E Client Smp ID: EB-SE04-A-081003
Inj Date : 07-OCT-2008 18:25
Operator : VTS Inst ID: nt2.i
Smp Info : NS52E
Misc Info : 08-26290
Comment :
Method : /chem3/nt2.i/20081007.b/SIMABN.m
Meth Date : 07-Oct-2008 15:24 van Quant Type: ISTD
Cal Date : 11-SEP-2008 14:21 Cal File: ic091105.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: wind.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	23.90000	Weight of sample extracted (g)
M	27.50000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	1 2-Fluorophenol	112	4.799	4.768	(0.752)	298997	3.00194	173.2
$	2 Phenol-d5	99	6.084	6.068	(0.954)	366881	2.70757	156.3
$	5 2-Chlorophenol-d4	132	6.138	6.146	(0.962)	300206	2.99020	172.6
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	6.381	6.398	(1.000)	150254	2.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	6.623	6.640	(1.038)	107402	1.60907	92.86
	11 Benzyl alcohol	79	Compound Not Detected.					
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.142	7.157	(0.888)	306603	1.93058	111.4
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)	
*	27 Naphthalene-d8	136	8.048	8.066	(1.000)	506614	2.00000		
	30 Hexachlorobutadiene	225	Compound Not Detected.						
$	36 2-Fluorobiphenyl	172	9.572	9.572	(0.919)	374828	1.86422	107.6	
	39 Dimethylphthalate	163	10.178	10.177	(0.977)	84502	~~0.40191~~	23.19	NR
*	42 Acenaphthene-d10	162	10.420	10.437	(1.000)	254269	2.00000		
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.						
$	55 2,4,6-Tribromophenol	330	11.509	11.497	(0.929)	53163	2.22943	128.7	
	57 Hexachlorobenzene	284	Compound Not Detected.						
	58 Pentachlorophenol	266	Compound Not Detected.						
*	59 Phenanthrene-d10	188	12.383	12.383	(1.000)	382010	2.00000		
$	66 Terphenyl-d14	244	14.584	14.585	(0.915)	277143	2.14607	123.9	
	67 Butylbenzylphthalate	149	Compound Not Detected.						
*	69 Chrysene-d12	240	15.944	15.944	(1.000)	326408	2.00000		
*	77 Perylene-d12	264	17.729	17.729	(1.000)	378489	2.00000		
	79 Dibenzo(a,h)anthracene	278	18.883	18.883	(1.065)	63578	0.24380	14.07	
	90 N-Nitrosodimethylamine	74	Compound Not Detected.						

VTS

10.8.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ns52e.d
Lab Smp Id: NS52E
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20081007.b/SIMABN.m
Misc Info: 08-26290

Calibration Date: 07-OCT-2008
Calibration Time: 13:27
Client Smp ID: EB-SE04-A-081003
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	135442	67721	270884	150254	10.94
27 Naphthalene-d8	453834	226917	907668	506614	11.63
42 Acenaphthene-d10	220455	110228	440910	254269	15.34
59 Phenanthrene-d10	323435	161718	646870	382010	18.11
69 Chrysene-d12	272204	136102	544408	326408	19.91
77 Perylene-d12	284259	142130	568518	378489	33.15

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.40	5.90	6.90	6.38	-0.27
27 Naphthalene-d8	8.07	7.57	8.57	8.05	-0.23
42 Acenaphthene-d10	10.44	9.94	10.94	10.42	-0.16
59 Phenanthrene-d10	12.38	11.88	12.88	12.38	0.00
69 Chrysene-d12	15.94	15.44	16.44	15.94	0.00
77 Perylene-d12	17.73	17.23	18.23	17.73	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: NS52E
Level: LOW
Data Type: MS DATA
SpikeList File: wind.spk
Sublist File: wind.sub
Method File: /chem3/nt2.i/20081007.b/SIMABN.m
Misc Info: 08-26290

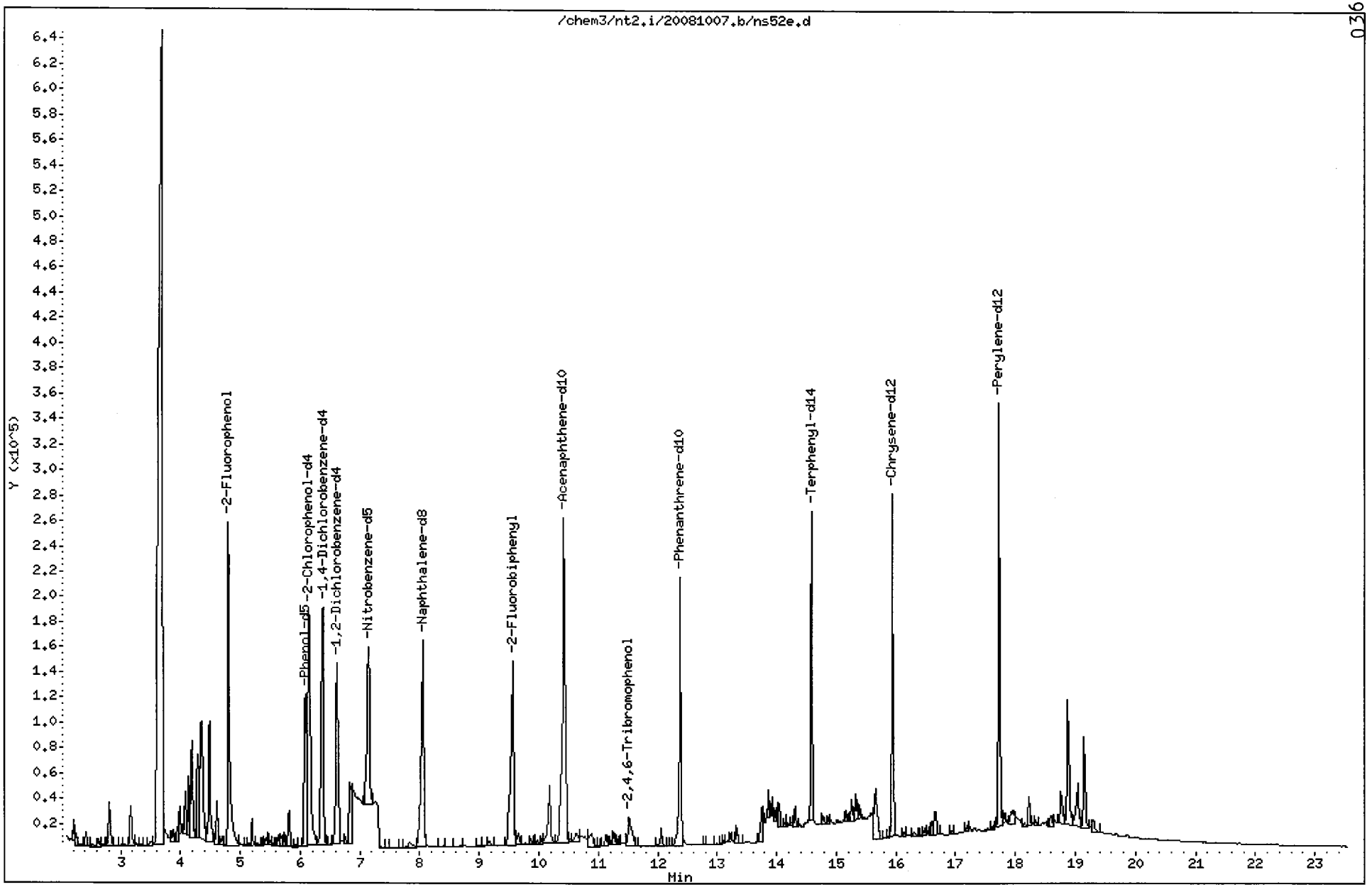
Client SDG: NS52
Fraction: SV
Client Smp ID: EB-SE04-A-081003
Operator: VTS
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	216.4	173.2	80.05	30-160
$ 2 Phenol-d5	216.4	156.3	72.20	30-160
$ 5 2-Chlorophenol-d4	216.4	172.6	79.74	30-160
$ 10 1,2-Dichlorobenzen	144.3	92.86	64.36	30-160
$ 18 Nitrobenzene-d5	144.3	111.4	77.22	30-160
$ 36 2-Fluorobiphenyl	144.3	107.6	74.57	30-160
$ 55 2,4,6-Tribromophen	216.4	128.7	59.45	30-160
$ 66 Terphenyl-d14	144.3	123.9	85.84	30-160

Data File: /chem3/nt2.i/20081007.b/ns52e.d
Date : 07-OCT-2008 18:25
Client ID: EB-SE04-A-081003
Sample Info: NS52E
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i
Operator: VTS
Column diameter: 0.32

0364



SIM SIM SVOA Analysis
Standard Raw Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NOS: NS52

prepared
by

Analytical Resources, Inc.

6B

SEMIVOLATILE 8270-C INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS52 Project: EDDON BOATYARD

Instrument ID: NT2 Calibration Date: 09/11/08

LAB FILE ID: RRF0.1=IC091103 RRF0.5=IC091105 RRF1 =IC091107
RRF2.5=IC091101 RRF5 =IC091106 RRF10 =IC091104
RRF20 =IC091102

COMPOUND	RRF 0.1	RRF 0.5	RRF 1	RRF 2.5	RRF 5	RRF 10	RRF 20	___ RRF	%RSD /R^2	
1,3-Dichlorobenzene	1.824	1.694	1.704	1.699	1.757	1.768	1.739	1.741	2.7	
1,4-Dichlorobenzene	1.500	1.451	1.448	1.488	1.508	1.566	1.526	1.498	2.8	*
1,2-Dichlorobenzene	1.464	1.397	1.403	1.408	1.449	1.497	1.408	1.432	2.7	
Benzyl alcohol		0.816	1.068	1.278	1.371	1.462	1.549	1.257	0.999	
2-Methylphenol	1.579	1.454	1.587	1.677	1.688	1.806	1.346	1.591	9.7	
N-Nitroso-di-n-propylamine	1.362	1.308	1.349	1.385	1.316	1.346	1.238	1.329	3.6	~
2,4-Dimethylphenol	0.564	0.507	0.509	0.494	0.498	0.413	0.506	0.499	8.9	
1,2,4-Trichlorobenzene	0.384	0.368	0.360	0.347	0.351	0.321	0.332	0.352	6.1	
Hexachlorobutadiene	0.249	0.230	0.235	0.229	0.230	0.204	0.176	0.222	11.0	*
Dimethylphthalate	1.932	1.658	1.688	1.628	1.669	1.461	1.540	1.654	8.9	
N-Nitrosodiphenylamine (1)	0.583	0.490	0.507	0.513	0.516	0.525	0.498	0.519	5.9	
Hexachlorobenzene	0.316	0.271	0.281	0.284	0.292	0.282	0.270	0.285	5.5	
Pentachlorophenol		0.105	0.119	0.155	0.153	0.168	0.180	0.147	0.999	*
Butylbenzylphthalate	1.014	0.871	0.922	0.955	0.934	0.889	0.868	0.922	5.6	
Dibenzo(a,h)anthracene	1.643	1.259	1.295	1.390	1.390	1.370	1.298	1.378	9.3	
N-Nitrosodimethylamine		0.876	0.911	1.015	0.975	0.958	0.965	0.950	5.2	
2-Fluorophenol		1.280	1.290	1.379	1.329	1.316	1.360	1.326	2.9	
Phenol-d5		1.709	1.747	1.858	1.844	1.860		1.804	3.9	
2-Chlorophenol-d4		1.168	1.381	1.396	1.381	1.355		1.336	7.1	
1,2-Dichlorobenzene-d4		0.882	0.900	0.904	0.890	0.866		0.888	1.7	
Nitrobenzene-d5		0.714	0.609	0.630	0.634	0.548		0.627	9.5	
2-Fluorobiphenyl		1.568	1.597	1.570	1.620	1.552		1.581	1.7	
2,4,6-Tribromophenol		0.120	0.127	0.136	0.118	0.124		0.125	5.5	
Terphenyl-d14		0.774	0.796	0.815	0.788	0.784		0.791	2.0	

(1) Cannot be seperated from Diphenylamine

* Compounds with maximum %RSD = 30%

~ Compounds with minimum average RRF = .05

<- Outside QC limits

FORM VI SV-1

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 11-SEP-2008 12:09
End Cal Date : 11-SEP-2008 15:27
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt2.i/20080911.b/SIMABN.m
Cal Date : 12-Sep-2008 09:44 peter

Calibration File Names:
Level 1: /chem3/nt2.i/20080911.b/ic091103.d
Level 2: /chem3/nt2.i/20080911.b/ic091105.d
Level 3: /chem3/nt2.i/20080911.b/ic091107.d
Level 4: /chem3/nt2.i/20080911.b/ic091101.d
Level 5: /chem3/nt2.i/20080911.b/ic091106.d
Level 6: /chem3/nt2.i/20080911.b/ic091104.d
Level 7: /chem3/nt2.i/20080911.b/ic091102.d

Compound	0.1000 Level 1	0.5000 Level 2	1 Level 3	2 Level 4	5 Level 5	10 Level 6	20 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 11-SEP-2008 12:09
End Cal Date : 11-SEP-2008 15:27
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt2.i/20080911.b/SIMABN.m
Cal Date : 12-Sep-2008 09:44 peter

Compound	0.1000 Level 1	0.5000 Level 2	1 Level 3	2 Level 4	5 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	20 Level 7											
142 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
135 2,3,5,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
136 2,3,4,5-tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
137 NewCpnd_131	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
133 Butylatedhydroxytoluene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
132 3,6-Dimethylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

0368

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 11-SEP-2008 12:09
End Cal Date : 11-SEP-2008 15:27
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt2.i/20080911.b/SIMABN.m
Cal Date : 12-Sep-2008 09:44 peter

Compound	0.1000 Level 1	0.5000 Level 2	1 Level 3	2 Level 4	5 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	20 Level 7											
146 Benzo(j)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
144 alpha-Terpineol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

0369

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 11-SEP-2008 12:09
End Cal Date : 11-SEP-2008 15:27
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt2.i/20080911.b/SIMABN.m
Cal Date : 12-Sep-2008 09:44 peter

Compound	0.1000 Level 1	0.5000 Level 2	1 Level 3	2 Level 4	5 Level 5	10 Level 6	20 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
123 Acetophenone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
143 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
120 2,3,4,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-

0370

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 11-SEP-2008 12:09
End Cal Date : 11-SEP-2008 15:27
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt2.i/20080911.b/SIMABN.m
Cal Date : 12-Sep-2008 09:44 peter

Compound	0.1000 Level 1	0.5000 Level 2	1 Level 3	2 Level 4	5 Level 5	10 Level 6	20 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
119 7,12-Dimethylbenz(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
118 Triphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
117 Butyl Diphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
116 Dibutyl Phenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
115 Tributyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-

0371

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 11-SEP-2008 12:09
End Cal Date : 11-SEP-2008 15:27
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt2.i/20080911.b/SIMABN.m
Cal Date : 12-Sep-2008 09:44 peter

Compound	0.1000 Level 1	0.5000 Level 2	1 Level 3	2 Level 4	5 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	20 Level 7											
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
111 Azobenzene (1,2-DP-Hydrazine)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
109 3,4,5-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
108 4,5,6-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
107 4,5-Dichloro-2-Methoxyphenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
106 Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 11-SEP-2008 12:09
End Cal Date : 11-SEP-2008 15:27
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt2.i/20080911.b/SIMABN.m
Cal Date : 12-Sep-2008 09:44 peter

Compound	0.1000 Level 1	0.5000 Level 2	1 Level 3	2 Level 4	5 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	20 Level 7											
105 1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
3 Phenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
4 Bis(2-Chloroethyl)ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
6 2-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
7 1,3-Dichlorobenzene	1.82371	1.69354	1.70407	1.69886	1.75669	1.76754						
	1.73897						AVRG		1.74048		2.69349	
9 1,4-Dichlorobenzene	1.49968	1.45124	1.44819	1.48781	1.50752	1.56639						
	1.52553						AVRG		1.49805		2.76580	
11 Benzyl alcohol	+++++	24813	62975	231690	420993	958417						
	2152761						QUAD	0.000e+00	0.73926	-0.00611	0.99980	

Analytical Resources, Inc.

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Cal Date : 12-Sep-2008 09:44 peter

Compound	0.1000 Level 1	0.5000 Level 2	1 Level 3	2 Level 4	5 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	20 Level 7											
12 1,2-Dichlorobenzene	1.46416	1.39742	1.40290	1.40820	1.44939	1.49744						
	1.40798						AVRG		1.43250		2.67391	
13 2-Methylphenol	1.57866	1.45413	1.58678	1.67678	1.68846	1.80571						
	1.34634						AVRG		1.59098		9.65985	
14 2,2'-oxybis(1-Chloropropane)	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
15 4-Methylphenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
16 N-Nitroso-di-n-propylamine	1.36254	1.30837	1.34892	1.38518	1.31602	1.34607						
	1.23825						AVRG		1.32934		3.60745	
17 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
19 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

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Origin : Force
Target Version : 3.50
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Method file : /chem3/nt2.i/20080911.b/SIMABN.m
Cal Date : 12-Sep-2008 09:44 peter

Compound	0.1000 Level 1	0.5000 Level 2	1 Level 3	2 Level 4	5 Level 5	10 Level 6	20 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
20 Isophorone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
21 2-Nitrophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
22 2,4-Dimethylphenol	0.56437	0.50738	0.50935	0.49421	0.49754	0.41308	0.50574	AVRG		0.49881		8.92953	
23 Bis(2-Chloroethoxy)methane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
24 Benzoic acid	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
25 2,4-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
26 1,2,4-Trichlorobenzene	0.38365	0.36760	0.36024	0.34718	0.35081	0.32068	0.33189	AVRG		0.35172		6.05579	

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Cal Date : 12-Sep-2008 09:44 peter

Compound	0.1000 Level 1	0.5000 Level 2	1 Level 3	2 Level 4	5 Level 5	10 Level 6	20 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
28 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
29 4-Chloroaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
30 Hexachlorobutadiene	0.24908	0.23011	0.23470	0.22909	0.22972	0.20412	0.17558	AVRG		0.22177		10.96018	
31 4-Chloro-3-methylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
32 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
33 Hexachlorocyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
34 2,4,6-Trichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-

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Compound	0.1000 Level 1	0.5000 Level 2	1 Level 3	2 Level 4	5 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	20 Level 7											
35 2,4,5-Trichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
37 2-Chloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
38 2-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
39 Dimethylphthalate	1.93200	1.65831	1.68779	1.62825	1.66867	1.46143						
	1.54006						AVRG		1.65379		8.87956	
40 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
41 2,6-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
43 3-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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Origin : Force
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Integrator : HP RTE
Method file : /chem3/nt2.i/20080911.b/SIMABN.m
Cal Date : 12-Sep-2008 09:44 peter

Compound	0.1000 Level 1	0.5000 Level 2	1 Level 3	2 Level 4	5 Level 5	10 Level 6	20 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
44 Acenaphthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
45 2,4-Dinitrophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
46 Dibenzofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
47 4-Nitrophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
48 2,4-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
49 Fluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
50 Diethylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-

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Compound	0.1000 Level 1	0.5000 Level 2	1 Level 3	2 Level 4	5 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	20 Level 7											
51 4-Chlorophenyl-phenylether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
52 4-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
53 4,6-Dinitro-2-methylphenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
54 N-Nitrosodiphenylamine	0.58328	0.49042	0.50713	0.51334	0.51617	0.52476						
	0.49766						AVRG		0.51897		5.89672	
56 4-Bromophenyl-phenylether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
57 Hexachlorobenzene	0.31604	0.27128	0.28080	0.28379	0.29163	0.28172						
	0.26970						AVRG		0.28499		5.47316	
58 Pentachlorophenol	+++++	7532	16959	65438	104161	257103						
	601774						QUAD	0.000e+00	6.49986	-0.52624	0.99971	

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Compound	0.1000 Level 1	0.5000 Level 2	1 Level 3	2 Level 4	5 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	20 Level 7											
60 Phenanthrene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
61 Anthracene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
62 Carbazole	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
63 Di-n-butylphthalate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
64 Fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
65 Pyrene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
67 Butylbenzylphthalate	1.01378	0.87071	0.92182	0.95517	0.93444	0.88877						
	0.86856						AVRG		0.92189		5.64863	

Analytical Resources, Inc.

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Method file : /chem3/nt2.i/20080911.b/SIMABN.m
Cal Date : 12-Sep-2008 09:44 peter

Compound	0.1000 Level 1	0.5000 Level 2	1 Level 3	2 Level 4	5 Level 5	10 Level 6	20 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
68 Benzo(a)anthracene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
70 3,3'-Dichlorobenzidine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
71 Chrysene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
72 bis(2-Ethylhexyl)phthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
73 Di-n-octylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
74 Benzo(b)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-
75 Benzo(k)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00	<-

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Compound	0.1000 Level 1	0.5000 Level 2	1 Level 3	2 Level 4	5 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	20 Level 7											
76 Benzo(a)pyrene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
78 Indeno(1,2,3-cd)pyrene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
79 Dibenzo(a,h)anthracene	1.64264	1.25912	1.29532	1.39020	1.39028	1.37019						
	1.29813						AVRG		1.37798		9.26228	
80 Benzo(g,h,i)perylene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
90 N-Nitrosodimethylamine	+++++	0.87629	0.91097	1.01465	0.97540	0.95792						
	0.96474						AVRG		0.94999		5.17004	
91 Aniline	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

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Compound	0.1000 Level 1	0.5000 Level 2	1 Level 3	2 Level 4	5 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	20 Level 7											
93 Benzidine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
98 Retene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

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Compound	0.1000 Level 1	0.5000 Level 2	1 Level 3	2 Level 4	5 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	20 Level 7											
102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
103 Pyridine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
$ 1 2-Fluorophenol	+++++	1.28004	1.29060	1.37920	1.32938	1.31589						
	1.35953						AVRG		1.32577		2.90836	
$ 145 d8-1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
$ 2 Phenol-d5	+++++	1.70922	1.74687	1.85790	1.84362	1.86057						
	+++++						AVRG		1.80364		3.91282	
$ 5 2-Chlorophenol-d4	+++++	1.16827	1.38094	1.39608	1.38121	1.35529						
	+++++						AVRG		1.33636		7.11669	
$ 10 1,2-Dichlorobenzene-d4	+++++	0.88247	0.89972	0.90394	0.88963	0.86658						
	+++++						AVRG		0.88847		1.67200	

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Compound	0.1000 Level 1	0.5000 Level 2	1 Level 3	2 Level 4	5 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	20 Level 7											
$ 18 Nitrobenzene-d5	+++++	0.71430	0.60934	0.62986	0.63372	0.54759						
	+++++						AVRG		0.62696		9.53406	
$ 36 2-Fluorobiphenyl	+++++	1.56856	1.59720	1.56972	1.62019	1.55185						
	+++++						AVRG		1.58150		1.71097	
$ 55 2,4,6-Tribromophenol	+++++	0.11975	0.12663	0.13577	0.11857	0.12350						
	+++++						AVRG		0.12485		5.51655	
$ 66 Terphenyl-d14	+++++	0.77363	0.79555	0.81507	0.78821	0.78392						
	+++++						AVRG		0.79128		1.95696	
$ 85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
$ 86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
$ 87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

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Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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Cal Date : 12-Sep-2008 09:44 peter

Compound	0.1000 Level 1	0.5000 Level 2	1 Level 3	2 Level 4	5 Level 5	10 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	20 Level 7											
$ 88 Dibenz(a,h)anthracene-d14	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
$ 89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-
$ 95 D10-1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+00		0.000e+00	<-

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 11-SEP-2008 12:09
End Cal Date : 11-SEP-2008 15:27
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt2.i/20080911.b/SIMABN.m
Cal Date : 12-Sep-2008 09:44 peter

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt2.i/20080911.b/ic091101.d
Lab Smp Id: ABN 2.5
Inj Date : 11-SEP-2008 12:09
Operator : VTS Inst ID: nt2.i
Smp Info : ABN 2.5
Misc Info :
Comment :
Method : /chem3/nt2.i/20080911.b/SIMABN.m
Meth Date : 12-Sep-2008 09:59 peter Quant Type: ISTD
Cal Date : 11-SEP-2008 14:21 Cal File: ic091105.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: wind.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2000.00000	Volume of final extract (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	5.235	5.235	(0.765)	250033	2.50000	2.601
$	2 Phenol-d5	99	6.483	6.483	(0.947)	336817	2.50000	2.575
$	5 2-Chlorophenol-d4	132	6.591	6.591	(0.963)	253094	2.50000	2.612
	7 1,3-Dichlorobenzene	146	6.794	6.794	(0.992)	307984	2.50000	2.440
*	8 1,4-Dichlorobenzene-d4	152	6.845	6.845	(1.000)	145031	2.00000	
	9 1,4-Dichlorobenzene	146	6.863	6.863	(1.003)	269723	2.50000	2.483
$	10 1,2-Dichlorobenzene-d4	152	7.088	7.088	(1.035)	163875	2.50000	2.544
	11 Benzyl alcohol	79	7.053	7.053	(1.030)	231690	2.50000	2.331
	12 1,2-Dichlorobenzene	146	7.105	7.105	(1.038)	255290	2.50000	2.458
	13 2-Methylphenol	108	7.264	7.264	(1.061)	303981	2.50000	2.635
	16 N-Nitroso-di-n-propylamine	70	7.449	7.449	(1.088)	251118	2.50000	2.605
$	18 Nitrobenzene-d5	82	7.603	7.603	(0.892)	356991	2.50000	2.512
	22 2,4-Dimethylphenol	107	8.124	8.124	(0.953)	280108	2.50000	2.477
	26 1,2,4-Trichlorobenzene	180	8.470	8.470	(0.993)	196773	2.50000	2.468

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	27 Naphthalene-d8	136	8.527	8.527	(1.000)	453425	2.00000	
	30 Hexachlorobutadiene	225	8.816	8.816	(1.034)	129846	2.50000	2.583
$	36 2-Fluorobiphenyl	172	10.019	10.019	(0.919)	486938	2.50000	2.481
	39 Dimethylphthalate	163	10.625	10.625	(0.975)	505093	2.50000	2.461
*	42 Acenaphthene-d10	162	10.902	10.902	(1.000)	248165	2.00000	
	54 N-Nitrosodiphenylamine	169	11.810	11.810	(0.918)	216849	2.50000	2.473
$	55 2,4,6-Tribromophenol	330	11.972	11.972	(0.930)	57354	2.50000	2.719
	57 Hexachlorobenzene	284	12.482	12.482	(0.970)	119880	2.50000	2.489
	58 Pentachlorophenol	266	12.728	12.728	(0.989)	65438	2.50000	2.478
*	59 Phenanthrene-d10	188	12.867	12.867	(1.000)	337939	2.00000	
$	66 Terphenyl-d14	244	15.082	15.082	(0.916)	309202	2.50000	2.575
	67 Butylbenzylphthalate	149	15.799	15.799	(0.959)	362352	2.50000	2.590
*	69 Chrysene-d12	240	16.467	16.467	(1.000)	303486	2.00000	
*	77 Perylene-d12	264	18.267	18.267	(1.000)	342418	2.00000	
	79 Dibenzo(a,h)anthracene	278	19.544	19.544	(1.070)	595038	2.50000	2.522
	90 N-Nitrosodimethylamine	74	3.121	3.121	(0.456)	183945	2.50000	2.670

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic091101.d
Lab Smp Id: ABN 2.5
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20080911.b/SIMABN.m
Misc Info:

Calibration Date: 11-SEP-2008
Calibration Time: 12:09

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	145031	72516	290062	145031	0.00
27 Naphthalene-d8	453425	226712	906850	453425	0.00
42 Acenaphthene-d10	248165	124082	496330	248165	0.00
59 Phenanthrene-d10	337939	168970	675878	337939	0.00
69 Chrysene-d12	303486	151743	606972	303486	0.00
77 Perylene-d12	342418	171209	684836	342418	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.85	6.35	7.35	6.85	0.00
27 Naphthalene-d8	8.53	8.03	9.03	8.53	0.00
42 Acenaphthene-d10	10.90	10.40	11.40	10.90	0.00
59 Phenanthrene-d10	12.87	12.37	13.37	12.87	0.00
69 Chrysene-d12	16.47	15.97	16.97	16.47	0.00
77 Perylene-d12	18.27	17.77	18.77	18.27	0.00

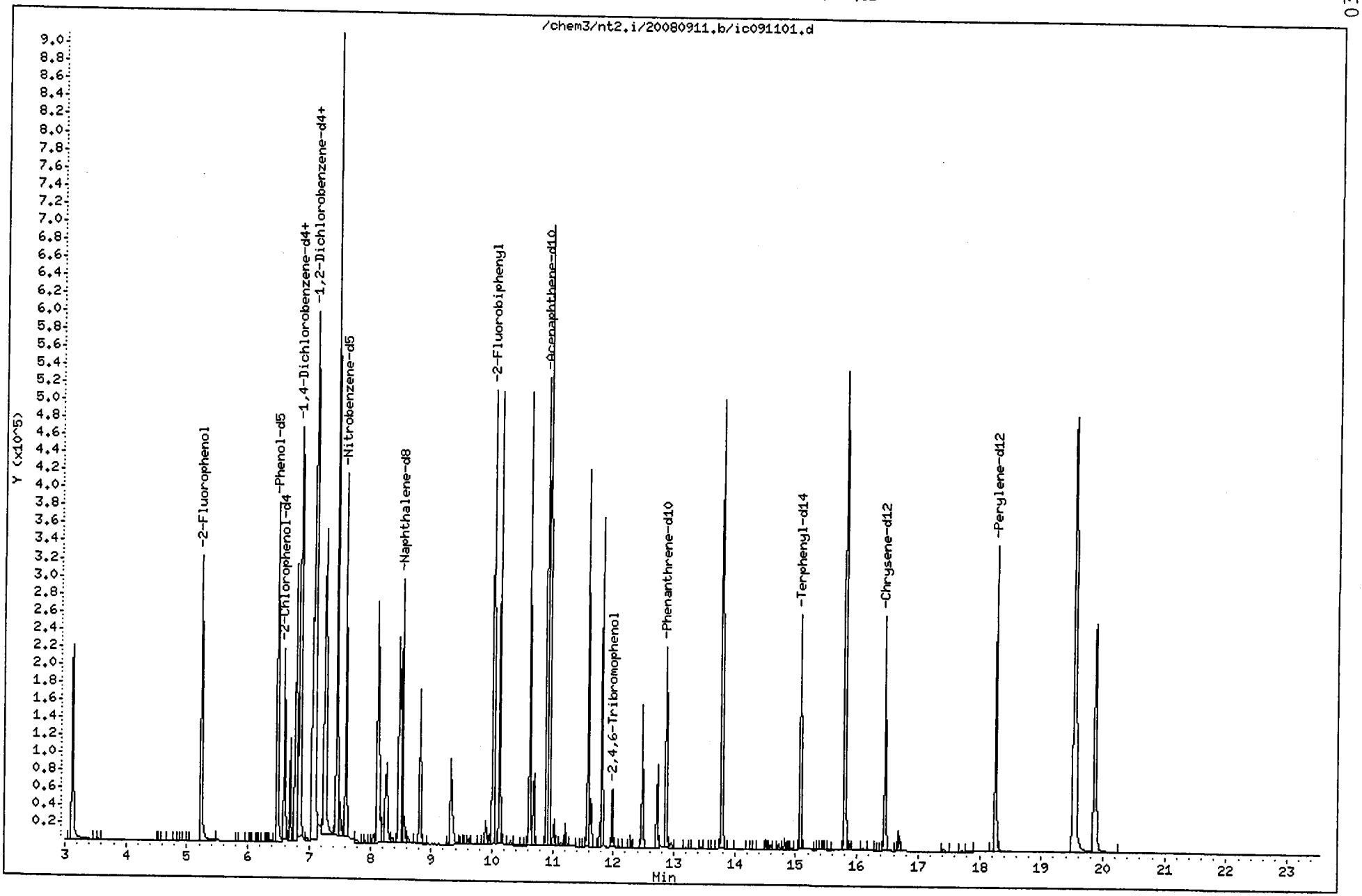
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20080911.b/ic091101.d
Date : 11-SEP-2008 12:09
Client ID:
Sample Info: ABN 2.5
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i

Operator: VTS
Column diameter: 0.32

0391



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt2.i/20080911.b/ic091102.d
Lab Smp Id: ABN 20
Inj Date : 11-SEP-2008 12:42
Operator : VTS Inst ID: nt2.i
Smp Info : ABN 20
Misc Info :
Comment :
Method : /chem3/nt2.i/20080911.b/SIMABN.m
Meth Date : 12-Sep-2008 09:59 peter Quant Type: ISTD
Cal Date : 11-SEP-2008 14:21 Cal File: ic091105.d
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: wind.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2000.00000	Volume of final extract (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	5.243	5.235	(0.766)	1889366	20.0000	20.51
$	2 Phenol-d5	99	6.498	6.483	(0.949)	2658170	20.0000	21.21
$	5 2-Chlorophenol-d4	132	6.607	6.591	(0.965)	1942536	20.0000	20.92
	7 1,3-Dichlorobenzene	146	6.793	6.794	(0.992)	2416683	20.0000	19.98
*	8 1,4-Dichlorobenzene-d4	152	6.845	6.845	(1.000)	138972	2.00000	
	9 1,4-Dichlorobenzene	146	6.863	6.863	(1.003)	2120055	20.0000	20.37
$	10 1,2-Dichlorobenzene-d4	152	7.088	7.088	(1.035)	1234970	20.0000	20.00
	11 Benzyl alcohol	79	7.070	7.053	(1.033)	2152761	20.0000	19.97
	12 1,2-Dichlorobenzene	146	7.105	7.105	(1.038)	1956695	20.0000	19.66
	13 2-Methylphenol	108	7.266	7.264	(1.061)	1871038	20.0000	16.92
	16 N-Nitroso-di-n-propylamine	70	7.466	7.449	(1.091)	1720822	20.0000	18.63
$	18 Nitrobenzene-d5	82	7.620	7.603	(0.894)	2489093	20.0000	16.11
	22 2,4-Dimethylphenol	107	8.143	8.124	(0.955)	2492164	20.0000	20.28
	26 1,2,4-Trichlorobenzene	180	8.489	8.470	(0.995)	1635478	20.0000	18.87

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	27 Naphthalene-d8	136	8.527	8.527	(1.000)	492774	2.00000	
	30 Hexachlorobutadiene	225	8.815	8.816	(1.034)	865189	20.0000	15.83
$	36 2-Fluorobiphenyl	172	10.021	10.019	(0.919)	3269848	20.0000	17.62
	39 Dimethylphthalate	163	10.644	10.625	(0.976)	3614871	20.0000	18.62
*	42 Acenaphthene-d10	162	10.903	10.902	(1.000)	234722	2.00000	
	54 N-Nitrosodiphenylamine	169	11.821	11.810	(0.918)	1665622	20.0000	19.18
$	55 2,4,6-Tribromophenol	330	11.983	11.972	(0.930)	400834	20.0000	19.19
	57 Hexachlorobenzene	284	12.482	12.482	(0.969)	902643	20.0000	18.93
	58 Pentachlorophenol	266	12.729	12.728	(0.988)	601774	20.0000	19.97
*	59 Phenanthrene-d10	188	12.883	12.867	(1.000)	334690	2.00000	
$	66 Terphenyl-d14	244	15.082	15.082	(0.915)	2449814	20.0000	19.02
	67 Butylbenzylphthalate	149	15.811	15.799	(0.959)	2828128	20.0000	18.84
*	69 Chrysene-d12	240	16.482	16.467	(1.000)	325613	2.00000	
*	77 Perylene-d12	264	18.267	18.267	(1.000)	362792	2.00000	
	79 Dibenzo(a,h)anthracene	278	19.575	19.544	(1.072)	4709528	20.0000	18.84
	90 N-Nitrosodimethylamine	74	3.152	3.121	(0.460)	1340715	20.0000	20.31

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic091102.d
Lab Smp Id: ABN 20
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20080911.b/SIMABN.m
Misc Info:

Calibration Date: 11-SEP-2008
Calibration Time: 12:09

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	145031	72516	290062	138972	-4.18
27 Naphthalene-d8	453425	226712	906850	492774	8.68
42 Acenaphthene-d10	248165	124082	496330	234722	-5.42
59 Phenanthrene-d10	337939	168970	675878	334690	-0.96
69 Chrysene-d12	303486	151743	606972	325613	7.29
77 Perylene-d12	342418	171209	684836	362792	5.95

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.85	6.35	7.35	6.85	0.00
27 Naphthalene-d8	8.53	8.03	9.03	8.53	0.00
42 Acenaphthene-d10	10.90	10.40	11.40	10.90	0.02
59 Phenanthrene-d10	12.87	12.37	13.37	12.88	0.12
69 Chrysene-d12	16.47	15.97	16.97	16.48	0.09
77 Perylene-d12	18.27	17.77	18.77	18.27	0.00

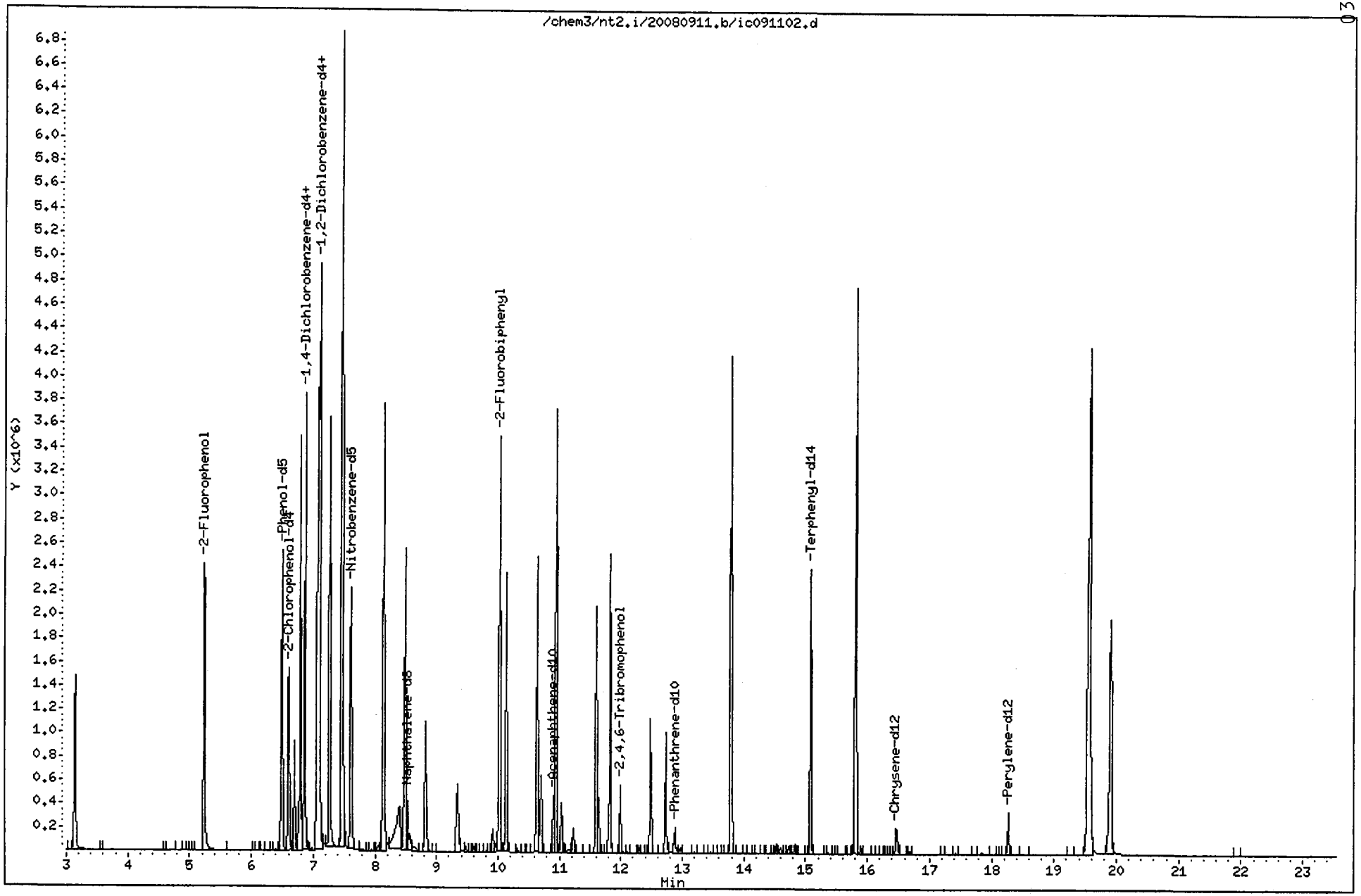
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20080911.b/ic091102.d
Date : 11-SEP-2008 12:42
Client ID:
Sample Info: ABN 20
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i

Operator: VTS
Column diameter: 0.32

0395



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt2.i/20080911.b/ic091103.d
Lab Smp Id: ABN 0.1
Inj Date : 11-SEP-2008 13:15
Operator : VTS
Inst ID: nt2.i
Smp Info : ABN 0.1
Misc Info :
Comment :
Method : /chem3/nt2.i/20080911.b/SIMABN.m
Meth Date : 12-Sep-2008 09:59 peter
Quant Type: ISTD
Cal Date : 11-SEP-2008 14:21
Cal File: ic091105.d
Als bottle: 3
Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: wind.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2000.00000	Volume of final extract (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	5.243	5.235	(0.766)	8561	0.10000	0.09678
$	2 Phenol-d5	99	6.482	6.483	(0.947)	11218	0.10000	0.09322
$	5 2-Chlorophenol-d4	132	6.598	6.591	(0.964)	7861	0.10000	0.08816
	7 1,3-Dichlorobenzene	146	6.794	6.794	(0.992)	12168	0.10000	0.1048
*	8 1,4-Dichlorobenzene-d4	152	6.846	6.845	(1.000)	133442	2.00000	
	9 1,4-Dichlorobenzene	146	6.864	6.863	(1.003)	10006	0.10000	0.1001
$	10 1,2-Dichlorobenzene-d4	152	7.088	7.088	(1.035)	5538	0.10000	0.09342(M)
	12 1,2-Dichlorobenzene	146	7.106	7.105	(1.038)	9769	0.10000	0.1022
	13 2-Methylphenol	108	7.265	7.264	(1.061)	10533	0.10000	0.09923
	16 N-Nitroso-di-n-propylamine	70	7.450	7.449	(1.088)	9091	0.10000	0.1025
$	18 Nitrobenzene-d5	82	7.604	7.603	(0.892)	12918	0.10000	0.1005
	22 2,4-Dimethylphenol	107	8.125	8.124	(0.953)	11567	0.10000	0.1131
	26 1,2,4-Trichlorobenzene	180	8.471	8.470	(0.993)	7863	0.10000	0.1091
*	27 Naphthalene-d8	136	8.528	8.527	(1.000)	409908	2.00000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	30 Hexachlorobutadiene	225	8.817	8.816	(1.034)	5105	0.10000	0.1123
$	36 2-Fluorobiphenyl	172	10.020	10.019	(0.919)	18736	0.10000	0.1082
	39 Dimethylphthalate	163	10.626	10.625	(0.975)	21157	0.10000	0.1168
*	42 Acenaphthene-d10	162	10.903	10.902	(1.000)	219016	2.00000	
	54 N-Nitrosodiphenylamine	169	11.809	11.810	(0.918)	8726	0.10000	0.1124
$	55 2,4,6-Tribromophenol	330	11.982	11.972	(0.931)	1683	0.10000	0.09011
	57 Hexachlorobenzene	284	12.484	12.482	(0.970)	4728	0.10000	0.1109
	58 Pentachlorophenol	266	12.730	12.728	(0.989)	1600	0.10000	0.06949
*	59 Phenanthrene-d10	188	12.868	12.867	(1.000)	299202	2.00000	
$	66 Terphenyl-d14	244	15.070	15.082	(0.915)	11795	0.10000	0.1146
	67 Butylbenzylphthalate	149	15.799	15.799	(0.959)	13188	0.10000	0.1100
*	69 Chrysene-d12	240	16.468	16.467	(1.000)	260174	2.00000	
*	77 Perylene-d12	264	18.268	18.267	(1.000)	294392	2.00000	
	79 Dibenzo(a,h)anthracene	278	19.546	19.544	(1.070)	24179	0.10000	0.1192
	90 N-Nitrosodimethylamine	74	3.144	3.121	(0.459)	5349	0.10000	0.08439

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic091103.d
Lab Smp Id: ABN 0.1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20080911.b/SIMABN.m
Misc Info:

Calibration Date: 11-SEP-2008
Calibration Time: 12:09

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	145031	72516	290062	133442	-7.99
27 Naphthalene-d8	453425	226712	906850	409908	-9.60
42 Acenaphthene-d10	248165	124082	496330	219016	-11.75
59 Phenanthrene-d10	337939	168970	675878	299202	-11.46
69 Chrysene-d12	303486	151743	606972	260174	-14.27
77 Perylene-d12	342418	171209	684836	294392	-14.03

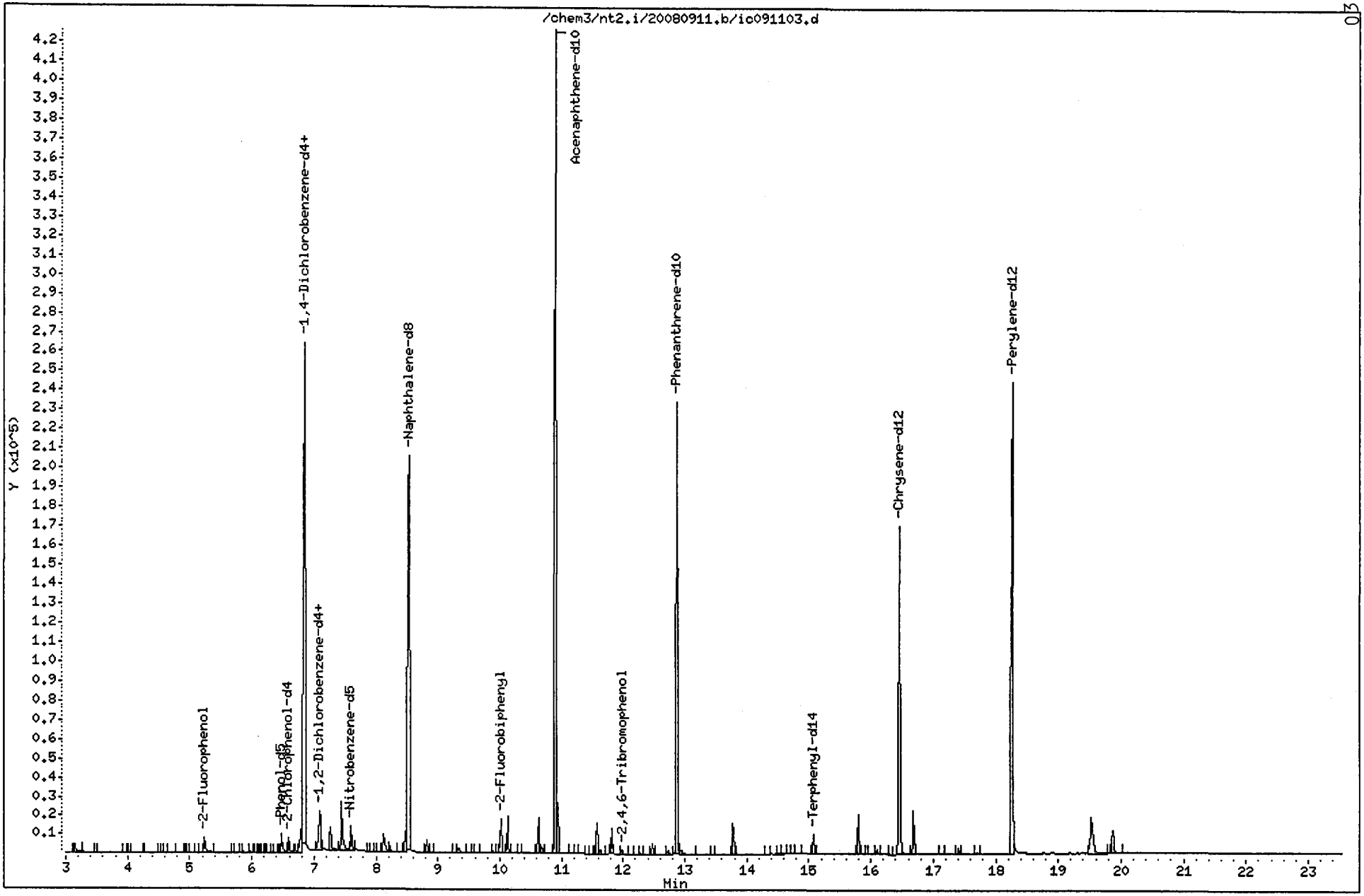
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.85	6.35	7.35	6.85	0.01
27 Naphthalene-d8	8.53	8.03	9.03	8.53	0.01
42 Acenaphthene-d10	10.90	10.40	11.40	10.90	0.01
59 Phenanthrene-d10	12.87	12.37	13.37	12.87	0.01
69 Chrysene-d12	16.47	15.97	16.97	16.47	0.01
77 Perylene-d12	18.27	17.77	18.77	18.27	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20080911.b/ic091103.d
Date : 11-SEP-2008 13:15
Client ID:
Sample Info: ABN 0.1
Volume Injected (uL): 2.0
Column phase: ZB-5

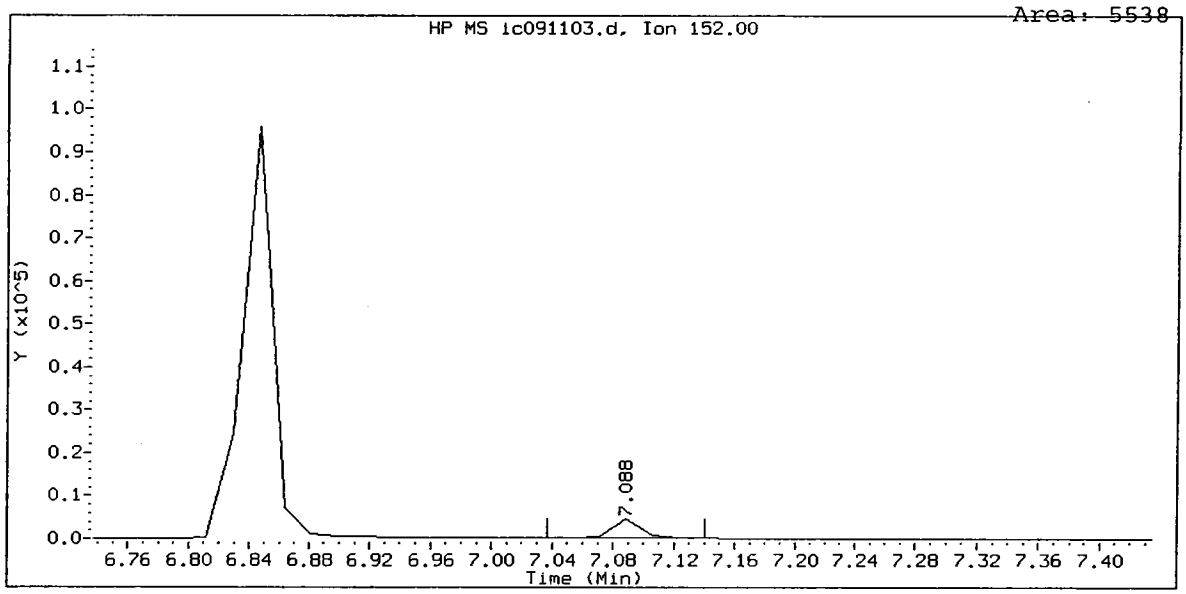
Instrument: nt2.i

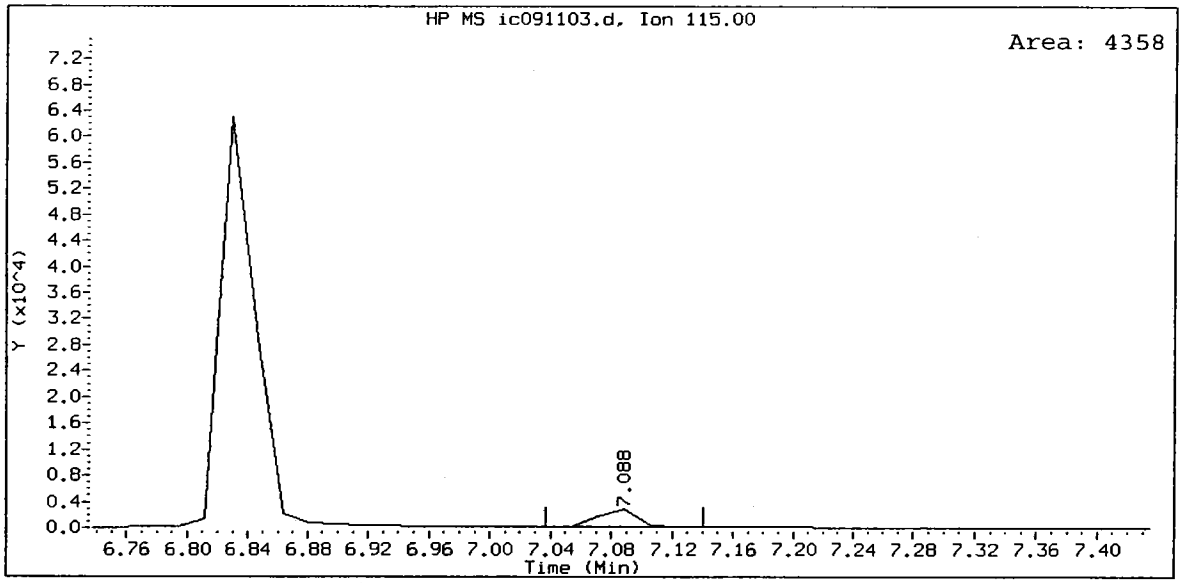
Operator: VTS
Column diameter: 0.32

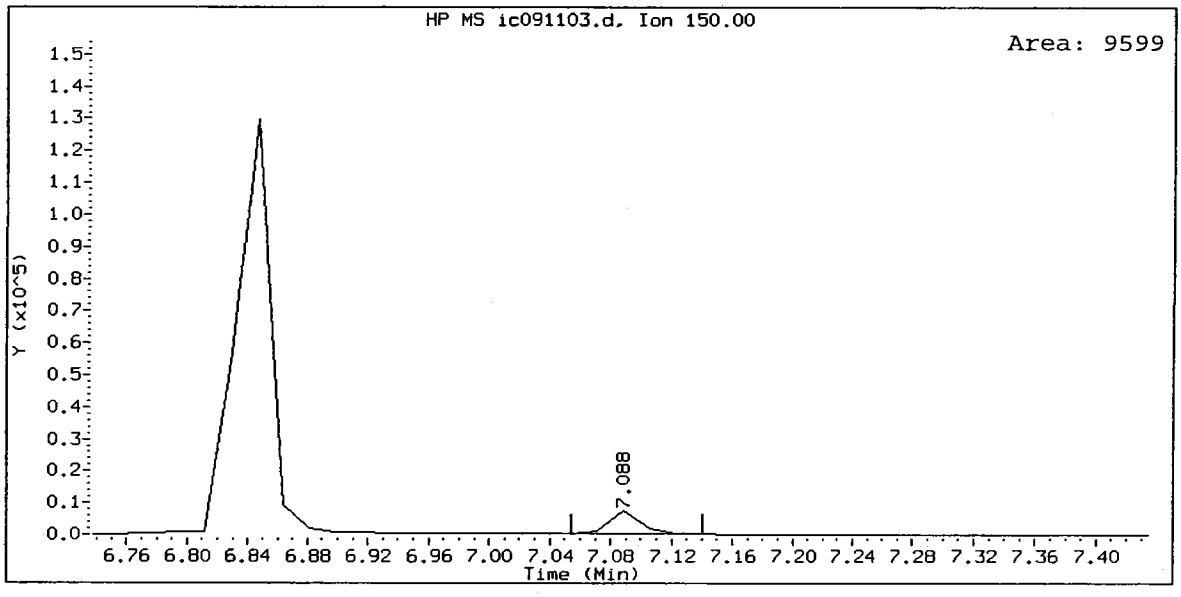


0399

ABN 0.1, /chem3/nt2.i/20080911.b/ic091103.d
1,2-Dichlorobenzene-d4 Amount: 0.09







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt2.i/20080911.b/ic091104.d
Lab Smp Id: ABN 10
Inj Date : 11-SEP-2008 13:48
Operator : VTS Inst ID: nt2.i
Smp Info : ABN 10
Misc Info :
Comment :
Method : /chem3/nt2.i/20080911.b/SIMABN.m
Meth Date : 12-Sep-2008 09:59 peter Quant Type: ISTD
Cal Date : 11-SEP-2008 14:21 Cal File: ic091105.d
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: wind.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2000.00000	Volume of final extract (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	5.235	5.235	(0.765)	862640	10.0000	9.925
$	2 Phenol-d5	99	6.484	6.483	(0.947)	1219708	10.0000	10.32
$	5 2-Chlorophenol-d4	132	6.600	6.591	(0.964)	888465	10.0000	10.14
	7 1,3-Dichlorobenzene	146	6.794	6.794	(0.992)	1158717	10.0000	10.16
*	8 1,4-Dichlorobenzene-d4	152	6.846	6.845	(1.000)	131111	2.00000	
	9 1,4-Dichlorobenzene	146	6.863	6.863	(1.003)	1026855	10.0000	10.46
$	10 1,2-Dichlorobenzene-d4	152	7.088	7.088	(1.035)	568088	10.0000	9.754
	11 Benzyl alcohol	79	7.071	7.053	(1.033)	958417	10.0000	10.16
	12 1,2-Dichlorobenzene	146	7.105	7.105	(1.038)	981652	10.0000	10.45
	13 2-Methylphenol	108	7.265	7.264	(1.061)	1183740	10.0000	11.35
	16 N-Nitroso-di-n-propylamine	70	7.465	7.449	(1.091)	882425	10.0000	10.13
$	18 Nitrobenzene-d5	82	7.604	7.603	(0.892)	1196204	10.0000	8.734
	22 2,4-Dimethylphenol	107	8.125	8.124	(0.953)	902356	10.0000	8.281
	26 1,2,4-Trichlorobenzene	180	8.490	8.470	(0.995)	700518	10.0000	9.118

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	27 Naphthalene-d8	136	8.528	8.527	(1.000)	436894	2.00000	
	30 Hexachlorobutadiene	225	8.816	8.816	(1.034)	445895	10.0000	9.204
$	36 2-Fluorobiphenyl	172	10.020	10.019	(0.919)	1739982	10.0000	9.812
	39 Dimethylphthalate	163	10.626	10.625	(0.975)	1638603	10.0000	8.837
*	42 Acenaphthene-d10	162	10.903	10.902	(1.000)	224246	2.00000	
	54 N-Nitrosodiphenylamine	169	11.820	11.810	(0.919)	803350	10.0000	10.11
$	55 2,4,6-Tribromophenol	330	11.982	11.972	(0.931)	189065	10.0000	9.892
	57 Hexachlorobenzene	284	12.483	12.482	(0.970)	431288	10.0000	9.885
	58 Pentachlorophenol	266	12.730	12.728	(0.989)	257103	10.0000	10.17
*	59 Phenanthrene-d10	188	12.868	12.867	(1.000)	306177	2.00000	
$	66 Terphenyl-d14	244	15.081	15.082	(0.916)	1146853	10.0000	9.907
	67 Butylbenzylphthalate	149	15.810	15.799	(0.960)	1300260	10.0000	9.641
*	69 Chrysene-d12	240	16.468	16.467	(1.000)	292596	2.00000	
*	77 Perylene-d12	264	18.268	18.267	(1.000)	323585	2.00000	
	79 Dibenzo(a,h)anthracene	278	19.561	19.544	(1.071)	2216861	10.0000	9.943
	90 N-Nitrosodimethylamine	74	3.136	3.121	(0.458)	627966	10.0000	10.08

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic091104.d
Lab Smp Id: ABN 10
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20080911.b/SIMABN.m
Misc Info:

Calibration Date: 11-SEP-2008
Calibration Time: 12:09

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	145031	72516	290062	131111	-9.60
27 Naphthalene-d8	453425	226712	906850	436894	-3.65
42 Acenaphthene-d10	248165	124082	496330	224246	-9.64
59 Phenanthrene-d10	337939	168970	675878	306177	-9.40
69 Chrysene-d12	303486	151743	606972	292596	-3.59
77 Perylene-d12	342418	171209	684836	323585	-5.50

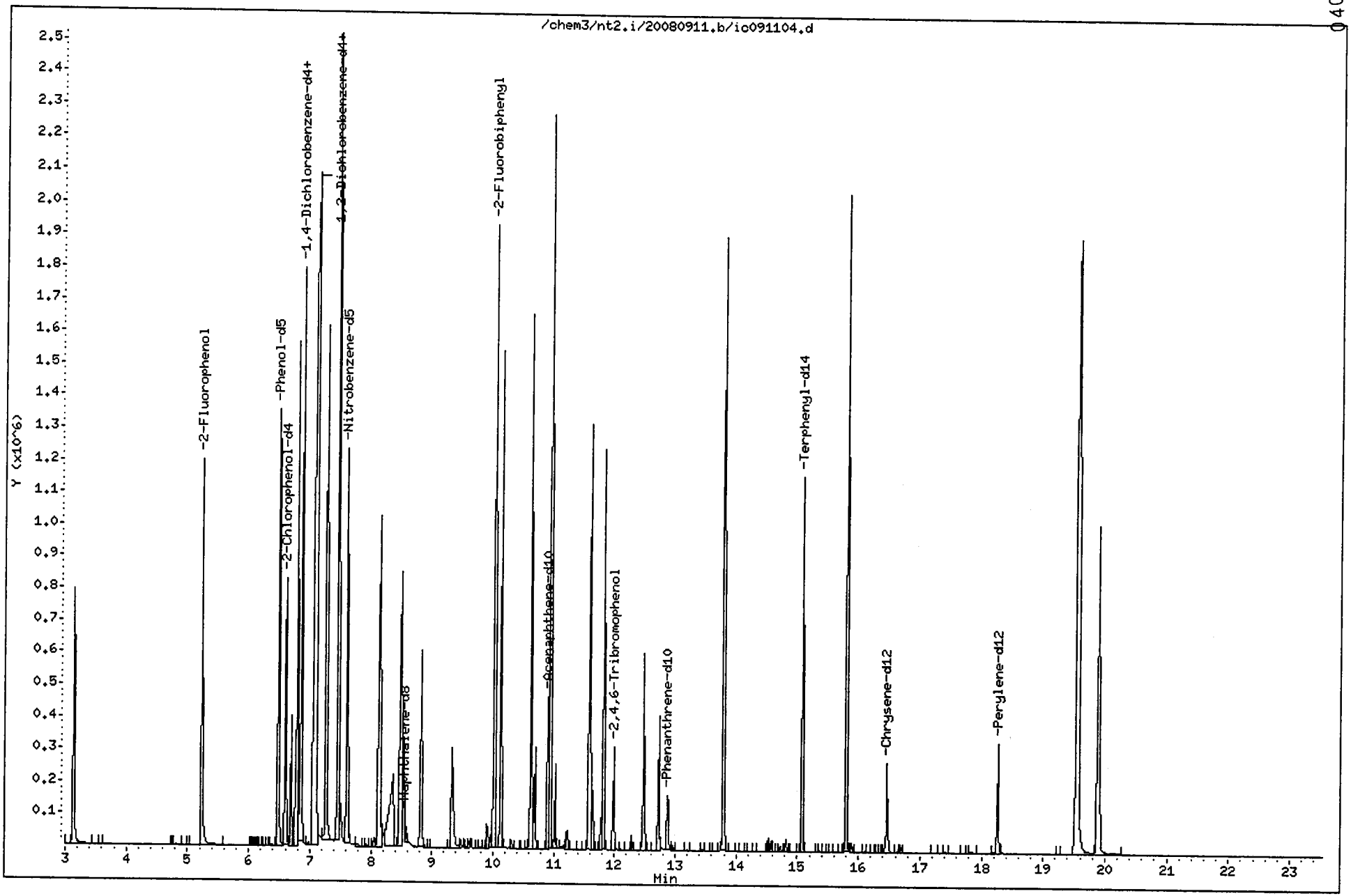
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.85	6.35	7.35	6.85	0.00
27 Naphthalene-d8	8.53	8.03	9.03	8.53	0.01
42 Acenaphthene-d10	10.90	10.40	11.40	10.90	0.01
59 Phenanthrene-d10	12.87	12.37	13.37	12.87	0.01
69 Chrysene-d12	16.47	15.97	16.97	16.47	0.01
77 Perylene-d12	18.27	17.77	18.77	18.27	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20080911.b/ic091104.d
Date : 11-SEP-2008 13:48
Client ID:
Sample Info: ABN 10
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i

Operator: VTS
Column diameter: 0.32



0404

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt2.i/20080911.b/ic091105.d
Lab Smp Id: ABN 0.5
Inj Date : 11-SEP-2008 14:21
Operator : VTS Inst ID: nt2.i
Smp Info : ABN 0.5
Misc Info :
Comment :
Method : /chem3/nt2.i/20080911.b/SIMABN.m
Meth Date : 12-Sep-2008 09:59 peter Quant Type: ISTD
Cal Date : 11-SEP-2008 14:21 Cal File: ic091105.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: wind.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2000.00000	Volume of final extract (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1 2-Fluorophenol	112	5.235	5.235	(0.765)	38939	0.50000	0.4828
$ 2 Phenol-d5	99	6.483	6.483	(0.947)	51995	0.50000	0.4738
$ 5 2-Chlorophenol-d4	132	6.599	6.591	(0.964)	35539	0.50000	0.4371
7 1,3-Dichlorobenzene	146	6.794	6.794	(0.992)	51518	0.50000	0.4865
* 8 1,4-Dichlorobenzene-d4	152	6.846	6.845	(1.000)	121681	2.00000	
9 1,4-Dichlorobenzene	146	6.863	6.863	(1.003)	44147	0.50000	0.4844
$ 10 1,2-Dichlorobenzene-d4	152	7.088	7.088	(1.035)	26845	0.50000	0.4966
11 Benzyl alcohol	79	7.054	7.053	(1.030)	24813	0.50000	0.3010
12 1,2-Dichlorobenzene	146	7.106	7.105	(1.038)	42510	0.50000	0.4878
13 2-Methylphenol	108	7.265	7.264	(1.061)	44235	0.50000	0.4570
16 N-Nitroso-di-n-propylamine	70	7.450	7.449	(1.088)	39801	0.50000	0.4921
$ 18 Nitrobenzene-d5	82	7.604	7.603	(0.892)	67591	0.50000	0.5697
22 2,4-Dimethylphenol	107	8.125	8.124	(0.953)	48011	0.50000	0.5086(M)
26 1,2,4-Trichlorobenzene	180	8.471	8.470	(0.993)	34784	0.50000	0.5226

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	27 Naphthalene-d8	136	8.528	8.527	(1.000)	378501	2.00000	
	30 Hexachlorobutadiene	225	8.816	8.816	(1.034)	21774	0.50000	0.5188
$	36 2-Fluorobiphenyl	172	10.020	10.019	(0.919)	80614	0.50000	0.4959
	39 Dimethylphthalate	163	10.626	10.625	(0.975)	85227	0.50000	0.5014
*	42 Acenaphthene-d10	162	10.903	10.902	(1.000)	205575	2.00000	
	54 N-Nitrosodiphenylamine	169	11.809	11.810	(0.918)	35059	0.50000	0.4725
$	55 2,4,6-Tribromophenol	330	11.971	11.972	(0.930)	8561	0.50000	0.4796(M)
	57 Hexachlorobenzene	284	12.484	12.482	(0.970)	19393	0.50000	0.4759
	58 Pentachlorophenol	266	12.730	12.728	(0.989)	7532	0.50000	0.3417
*	59 Phenanthrene-d10	188	12.869	12.867	(1.000)	285953	2.00000	
$	66 Terphenyl-d14	244	15.070	15.082	(0.915)	46606	0.50000	0.4889
	67 Butylbenzylphthalate	149	15.799	15.799	(0.959)	52454	0.50000	0.4722
*	69 Chrysene-d12	240	16.468	16.467	(1.000)	240972	2.00000	
*	77 Perylene-d12	264	18.268	18.267	(1.000)	269880	2.00000	
	79 Dibenzo(a,h)anthracene	278	19.545	19.544	(1.070)	84953	0.50000	0.4569
	90 N-Nitrosodimethylamine	74	3.136	3.121	(0.458)	26657	0.50000	0.4612

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic091105.d
Lab Smp Id: ABN 0.5
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20080911.b/SIMABN.m
Misc Info:

Calibration Date: 11-SEP-2008
Calibration Time: 12:09

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	145031	72516	290062	121681	-16.10
27 Naphthalene-d8	453425	226712	906850	378501	-16.52
42 Acenaphthene-d10	248165	124082	496330	205575	-17.16
59 Phenanthrene-d10	337939	168970	675878	285953	-15.38
69 Chrysene-d12	303486	151743	606972	240972	-20.60
77 Perylene-d12	342418	171209	684836	269880	-21.18

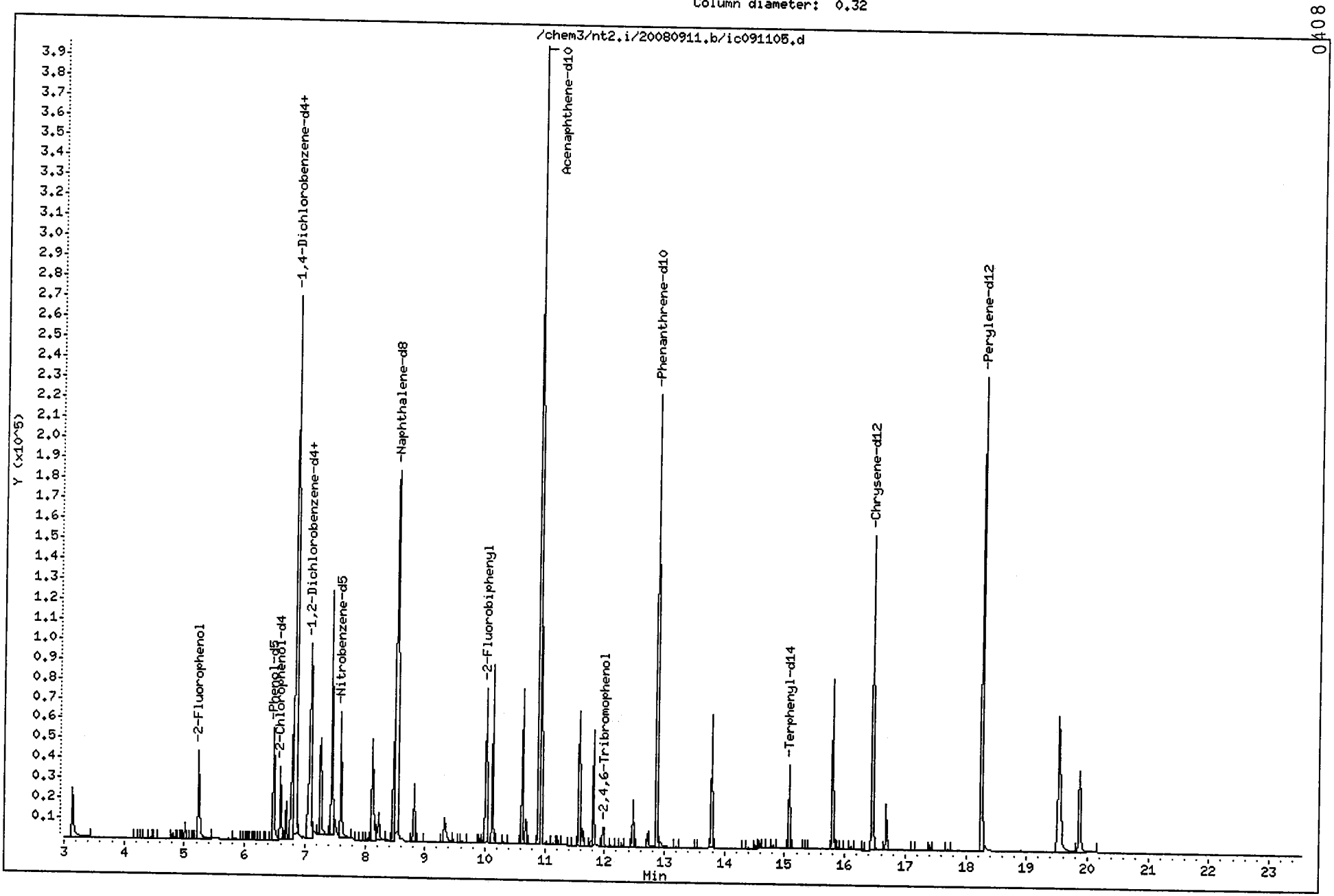
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.85	6.35	7.35	6.85	0.01
27 Naphthalene-d8	8.53	8.03	9.03	8.53	0.01
42 Acenaphthene-d10	10.90	10.40	11.40	10.90	0.01
59 Phenanthrene-d10	12.87	12.37	13.37	12.87	0.01
69 Chrysene-d12	16.47	15.97	16.97	16.47	0.01
77 Perylene-d12	18.27	17.77	18.77	18.27	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

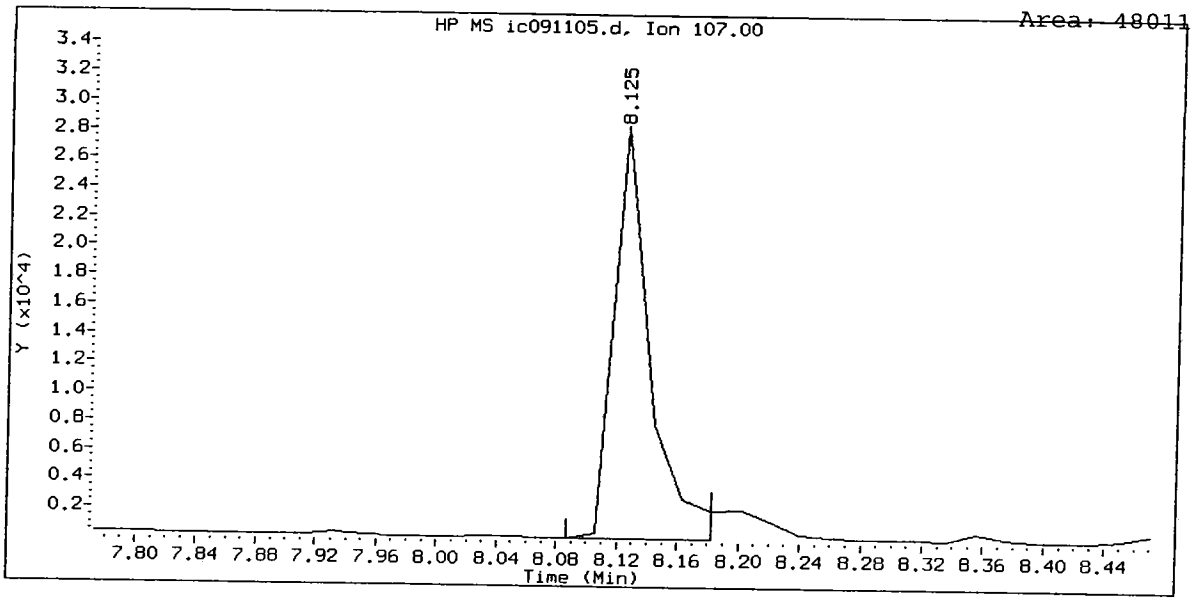
Data File: /chem3/nt2.i/20080911.b/ic091105.d
Date : 11-SEP-2008 14:21
Client ID:
Sample Info: ABN 0.5
Volume Injected (uL): 2.0
Column phase: ZB-5

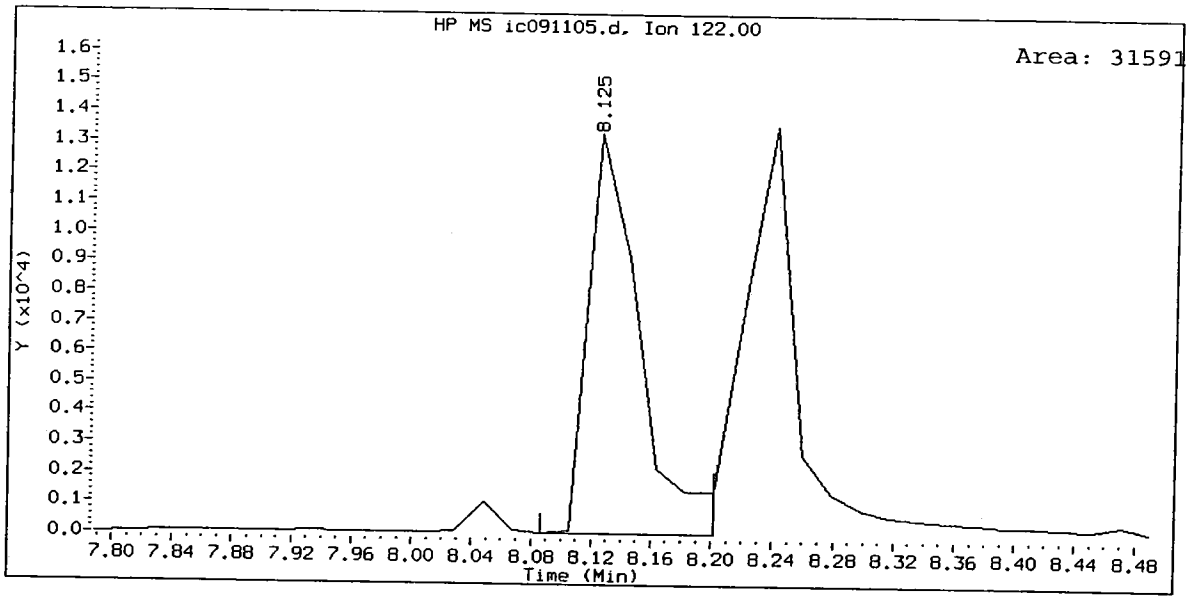
Instrument: nt2.i

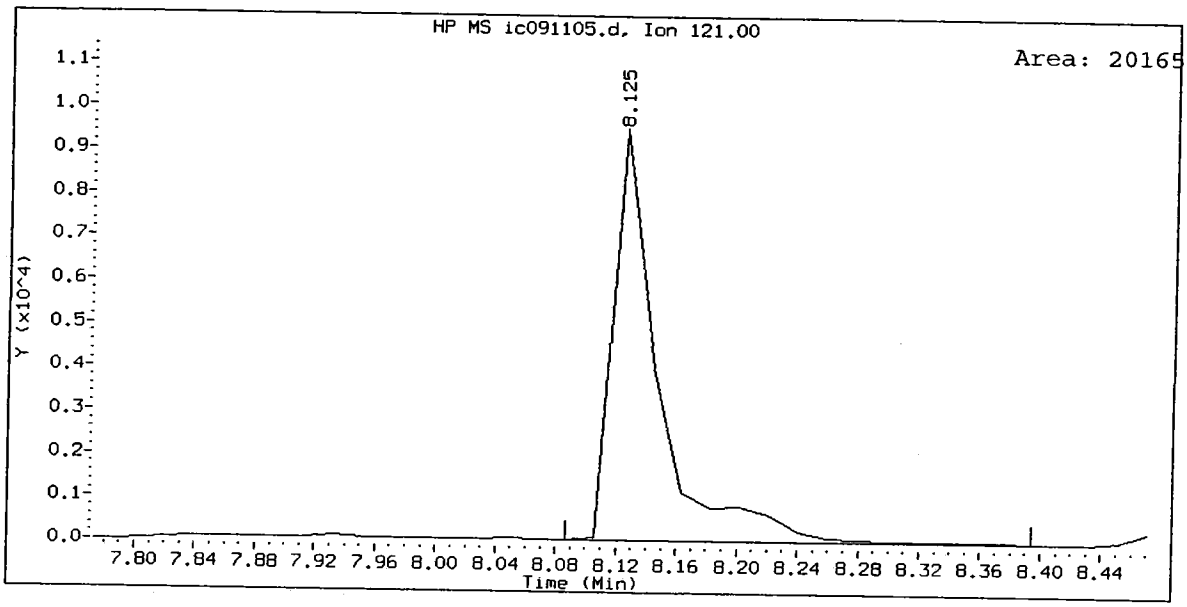
Operator: VTS
Column diameter: 0.32



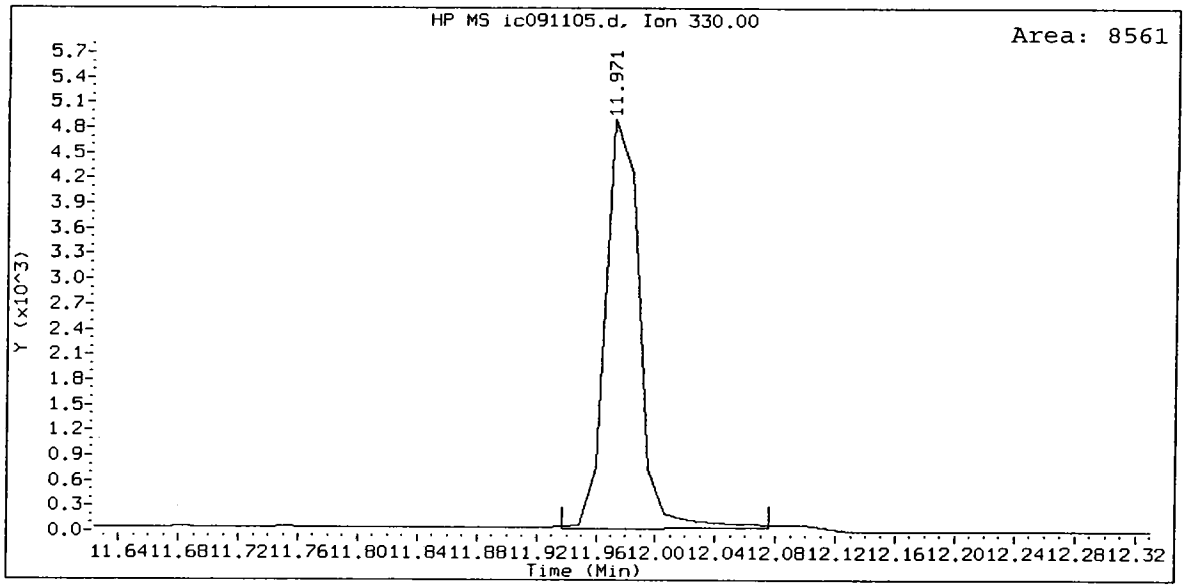
ABN 0.5, /chem3/nt2.i/20080911.b/ic091105.d
2,4-Dimethylphenol Amount: 0.51

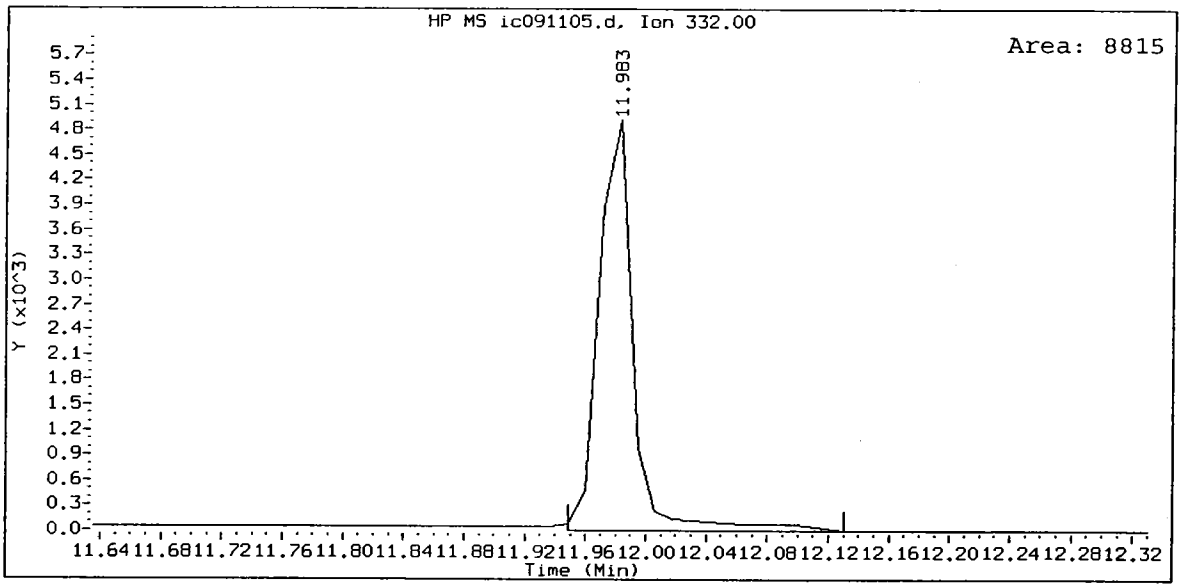


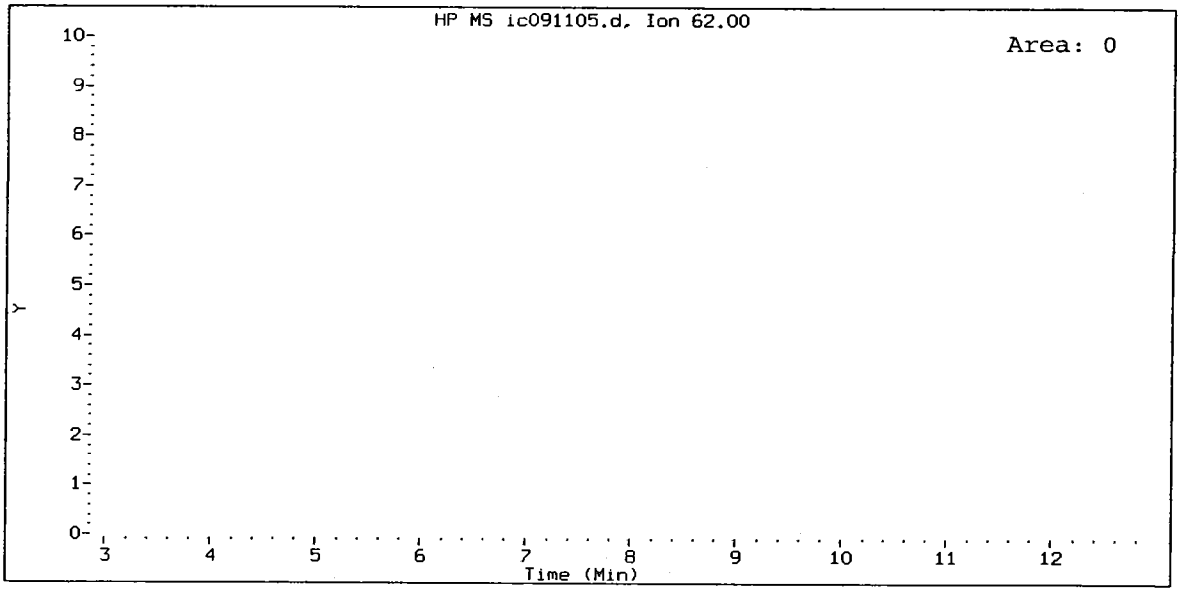




ABN 0.5, /chem3/nt2.i/20080911.b/ic091105.d
2,4,6-Tribromophenol Amount: 0.48







Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt2.i/20080911.b/ic091106.d
Lab Smp Id: ABN 5
Inj Date : 11-SEP-2008 14:54
Operator : VTS Inst ID: nt2.i
Smp Info : ABN 5
Misc Info :
Comment :
Method : /chem3/nt2.i/20080911.b/SIMABN.m
Meth Date : 12-Sep-2008 09:59 peter Quant Type: ISTD
Cal Date : 11-SEP-2008 14:21 Cal File: ic091105.d
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: wind.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2000.00000	Volume of final extract (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	5.235	5.235	(0.765)	408322	5.00000	5.014
$	2 Phenol-d5	99	6.482	6.483	(0.947)	566274	5.00000	5.111
$	5 2-Chlorophenol-d4	132	6.598	6.591	(0.964)	424243	5.00000	5.168
	7 1,3-Dichlorobenzene	146	6.794	6.794	(0.992)	539573	5.00000	5.047
*	8 1,4-Dichlorobenzene-d4	152	6.846	6.845	(1.000)	122861	2.00000	
	9 1,4-Dichlorobenzene	146	6.863	6.863	(1.003)	463039	5.00000	5.032
$	10 1,2-Dichlorobenzene-d4	152	7.088	7.088	(1.035)	273252	5.00000	5.007
	11 Benzyl alcohol	79	7.054	7.053	(1.030)	420993	5.00000	4.923
	12 1,2-Dichlorobenzene	146	7.106	7.105	(1.038)	445185	5.00000	5.059
	13 2-Methylphenol	108	7.265	7.264	(1.061)	518616	5.00000	5.306
	16 N-Nitroso-di-n-propylamine	70	7.450	7.449	(1.088)	404219	5.00000	4.950
$	18 Nitrobenzene-d5	82	7.604	7.603	(0.892)	604417	5.00000	5.054
	22 2,4-Dimethylphenol	107	8.125	8.124	(0.953)	474527	5.00000	4.987
	26 1,2,4-Trichlorobenzene	180	8.471	8.470	(0.993)	334584	5.00000	4.987

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	27 Naphthalene-d8	136	8.528	8.527	(1.000)	381502	2.00000	
	30 Hexachlorobutadiene	225	8.816	8.816	(1.034)	219094	5.00000	5.179
$	36 2-Fluorobiphenyl	172	10.021	10.019	(0.919)	809585	5.00000	5.122
	39 Dimethylphthalate	163	10.626	10.625	(0.975)	833807	5.00000	5.045
*	42 Acenaphthene-d10	162	10.903	10.902	(1.000)	199874	2.00000	
	54 N-Nitrosodiphenylamine	169	11.809	11.810	(0.918)	351937	5.00000	4.973
$	55 2,4,6-Tribromophenol	330	11.982	11.972	(0.931)	80843	5.00000	4.749
	57 Hexachlorobenzene	284	12.484	12.482	(0.970)	198837	5.00000	5.116
	58 Pentachlorophenol	266	12.730	12.728	(0.989)	104161	5.00000	4.811
*	59 Phenanthrene-d10	188	12.869	12.867	(1.000)	272729	2.00000	
$	66 Terphenyl-d14	244	15.081	15.082	(0.916)	508987	5.00000	4.981
	67 Butylbenzylphthalate	149	15.810	15.799	(0.960)	603410	5.00000	5.068
*	69 Chrysene-d12	240	16.468	16.467	(1.000)	258299	2.00000	
*	77 Perylene-d12	264	18.268	18.267	(1.000)	290912	2.00000	
	79 Dibenzo(a,h)anthracene	278	19.546	19.544	(1.070)	1011126	5.00000	5.045
	90 N-Nitrosodimethylamine	74	3.136	3.121	(0.458)	299596	5.00000	5.134

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic091106.d
Lab Smp Id: ABN 5
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20080911.b/SIMABN.m
Misc Info:

Calibration Date: 11-SEP-2008
Calibration Time: 12:09

Level: LOW
Sample Type: SOIL

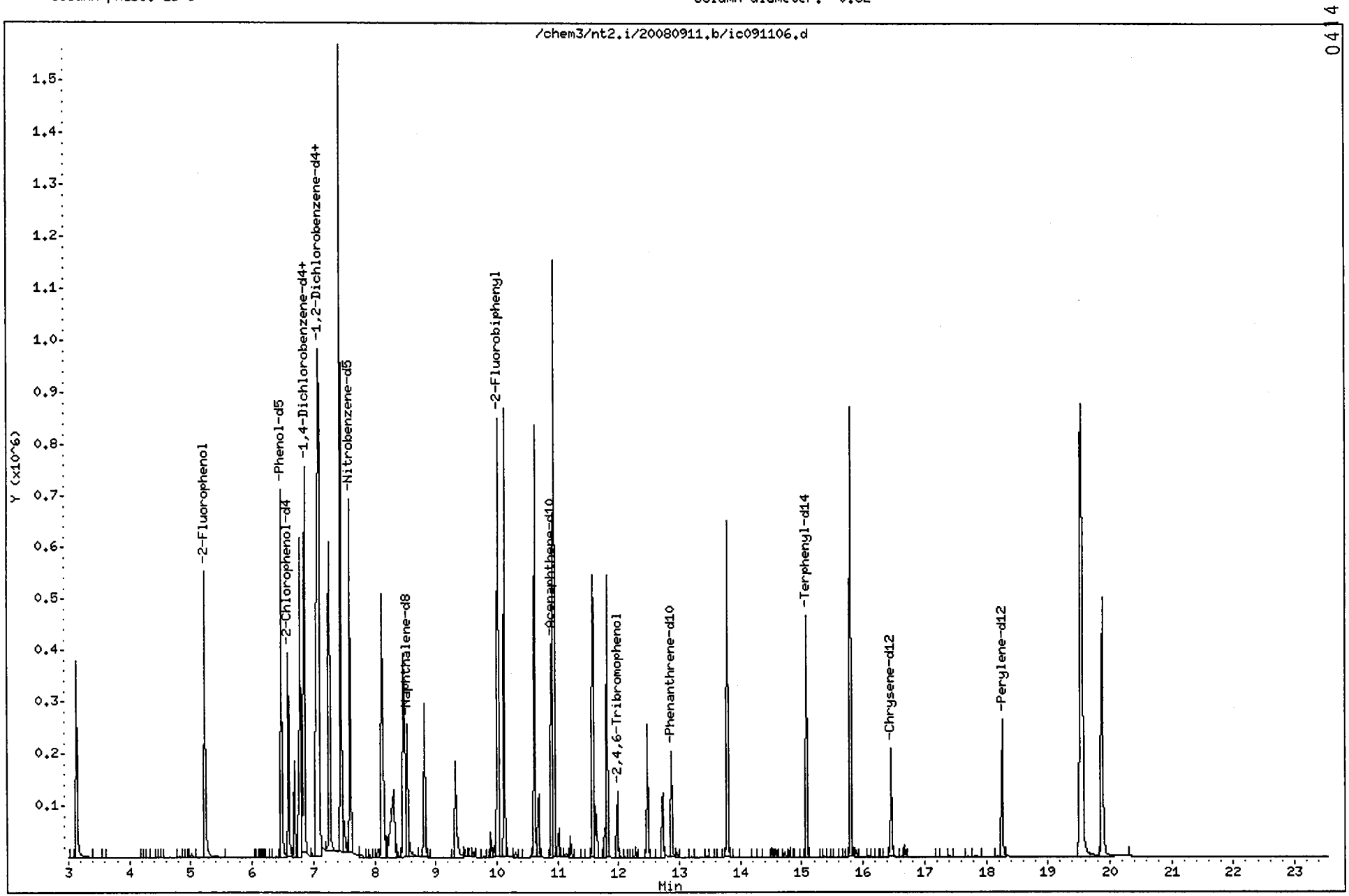
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	145031	72516	290062	122861	-15.29
27 Naphthalene-d8	453425	226712	906850	381502	-15.86
42 Acenaphthene-d10	248165	124082	496330	199874	-19.46
59 Phenanthrene-d10	337939	168970	675878	272729	-19.30
69 Chrysene-d12	303486	151743	606972	258299	-14.89
77 Perylene-d12	342418	171209	684836	290912	-15.04

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.85	6.35	7.35	6.85	0.01
27 Naphthalene-d8	8.53	8.03	9.03	8.53	0.01
42 Acenaphthene-d10	10.90	10.40	11.40	10.90	0.01
59 Phenanthrene-d10	12.87	12.37	13.37	12.87	0.01
69 Chrysene-d12	16.47	15.97	16.97	16.47	0.01
77 Perylene-d12	18.27	17.77	18.77	18.27	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20080911.b/ic091106.d
Date : 11-SEP-2008 14:54
Client ID:
Sample Info: ABN 5
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i
Operator: VTS
Column diameter: 0.32



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt2.i/20080911.b/ic091107.d
Lab Smp Id: ABN 1
Inj Date : 11-SEP-2008 15:27
Operator : VTS Inst ID: nt2.i
Smp Info : ABN 1
Misc Info :
Comment :
Method : /chem3/nt2.i/20080911.b/SIMABN.m
Meth Date : 12-Sep-2008 09:59 peter Quant Type: ISTD
Cal Date : 11-SEP-2008 14:21 Cal File: ic091105.d
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: wind.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2000.00000	Volume of final extract (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	5.236	5.235	(0.765)	76080	1.00000	0.9735
$ 2	Phenol-d5	99	6.483	6.483	(0.947)	102977	1.00000	0.9685
$ 5	2-Chlorophenol-d4	132	6.591	6.591	(0.963)	81406	1.00000	1.033
7	1,3-Dichlorobenzene	146	6.795	6.794	(0.992)	100454	1.00000	0.9791
* 8	1,4-Dichlorobenzene-d4	152	6.846	6.845	(1.000)	117899	2.00000	
9	1,4-Dichlorobenzene	146	6.864	6.863	(1.003)	85370	1.00000	0.9667
$ 10	1,2-Dichlorobenzene-d4	152	7.089	7.088	(1.035)	53038	1.00000	1.013
11	Benzyl alcohol	79	7.054	7.053	(1.030)	62975	1.00000	0.7863
12	1,2-Dichlorobenzene	146	7.106	7.105	(1.038)	82700	1.00000	0.9793
13	2-Methylphenol	108	7.265	7.264	(1.061)	93540	1.00000	0.9974
16	N-Nitroso-di-n-propylamine	70	7.450	7.449	(1.088)	79518	1.00000	1.015
$ 18	Nitrobenzene-d5	82	7.604	7.603	(0.892)	111791	1.00000	0.9719
22	2,4-Dimethylphenol	107	8.124	8.124	(0.953)	93447	1.00000	1.021
26	1,2,4-Trichlorobenzene	180	8.470	8.470	(0.993)	66090	1.00000	1.024

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
*	27 Naphthalene-d8	136	8.527	8.527	(1.000)	366927	2.00000	
	30 Hexachlorobutadiene	225	8.815	8.816	(1.034)	43059	1.00000	1.058
$	36 2-Fluorobiphenyl	172	10.021	10.019	(0.919)	157694	1.00000	1.010
	39 Dimethylphthalate	163	10.626	10.625	(0.975)	166638	1.00000	1.021
*	42 Acenaphthene-d10	162	10.903	10.902	(1.000)	197463	2.00000	
	54 N-Nitrosodiphenylamine	169	11.809	11.810	(0.918)	72128	1.00000	0.9772
$	55 2,4,6-Tribromophenol	330	11.971	11.972	(0.930)	18010	1.00000	1.014
	57 Hexachlorobenzene	284	12.482	12.482	(0.970)	39938	1.00000	0.9853
	58 Pentachlorophenol	266	12.729	12.728	(0.989)	16959	1.00000	0.7713
*	59 Phenanthrene-d10	188	12.867	12.867	(1.000)	284454	2.00000	
$	66 Terphenyl-d14	244	15.070	15.082	(0.915)	92181	1.00000	1.005
	67 Butylbenzylphthalate	149	15.799	15.799	(0.959)	106812	1.00000	0.9999
*	69 Chrysene-d12	240	16.467	16.467	(1.000)	231741	2.00000	
*	77 Perylene-d12	264	18.267	18.267	(1.000)	269434	2.00000	
	79 Dibenzo(a,h)anthracene	278	19.544	19.544	(1.070)	174502	1.00000	0.9400
	90 N-Nitrosodimethylamine	74	3.122	3.121	(0.456)	53701	1.00000	0.9589

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic091107.d
Lab Smp Id: ABN 1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20080911.b/SIMABN.m
Misc Info:

Calibration Date: 11-SEP-2008
Calibration Time: 12:09

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	145031	72516	290062	117899	-18.71
27 Naphthalene-d8	453425	226712	906850	366927	-19.08
42 Acenaphthene-d10	248165	124082	496330	197463	-20.43
59 Phenanthrene-d10	337939	168970	675878	284454	-15.83
69 Chrysene-d12	303486	151743	606972	231741	-23.64
77 Perylene-d12	342418	171209	684836	269434	-21.31

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.85	6.35	7.35	6.85	0.01
27 Naphthalene-d8	8.53	8.03	9.03	8.53	0.00
42 Acenaphthene-d10	10.90	10.40	11.40	10.90	0.01
59 Phenanthrene-d10	12.87	12.37	13.37	12.87	0.00
69 Chrysene-d12	16.47	15.97	16.97	16.47	0.00
77 Perylene-d12	18.27	17.77	18.77	18.27	0.00

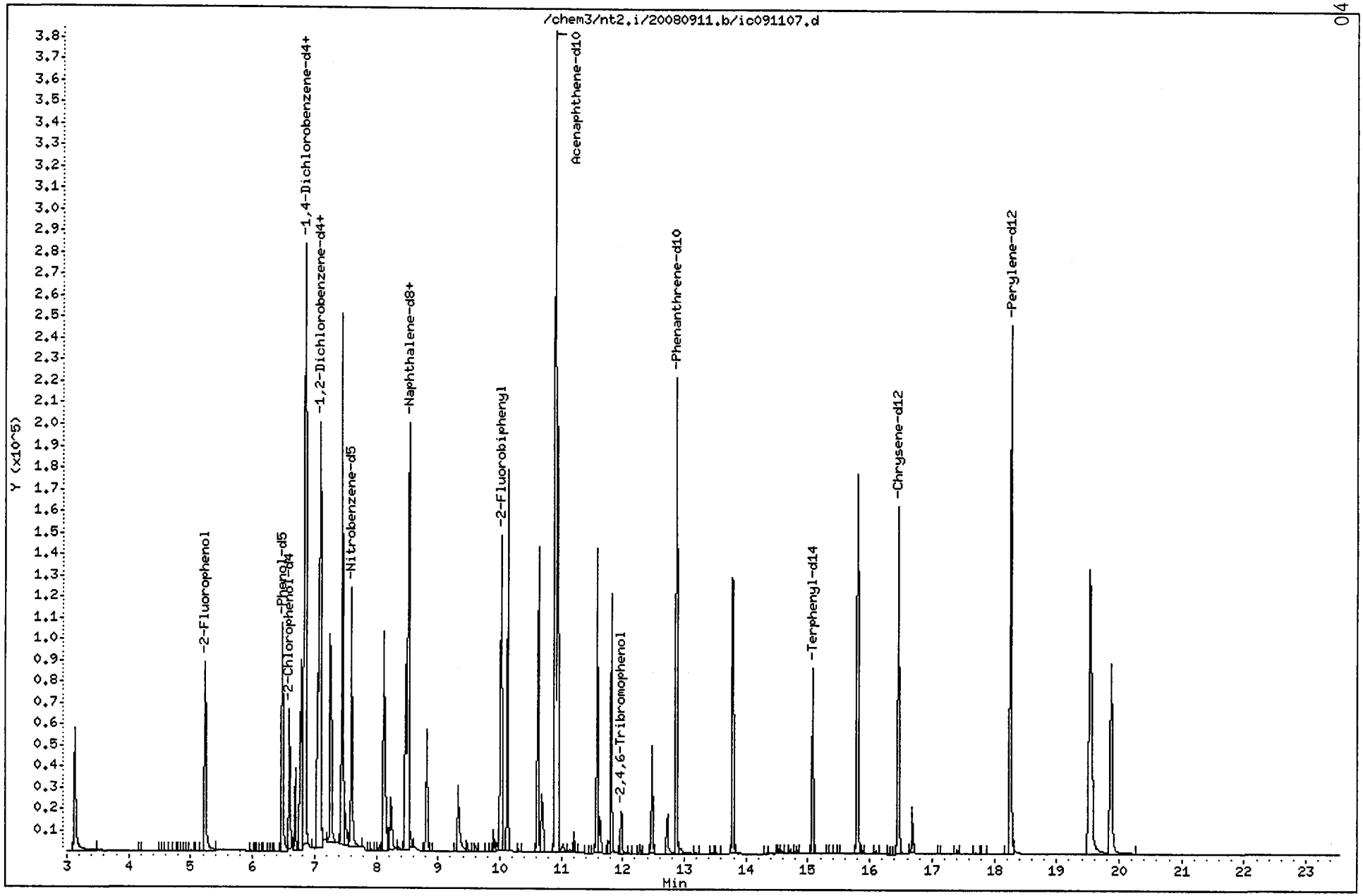
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt2.i/20080911.b/ic091107.d
Date : 11-SEP-2008 15:27
Client ID:
Sample Info: ABN 1
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i

Operator: VTS
Column diameter: 0.32

0418



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt2.i/20080911.b/ic091108.d
Lab Smp Id: ICV
Inj Date : 11-SEP-2008 16:00
Operator : VTS
Smp Info : ICV
Misc Info :
Comment :
Method : /chem3/nt2.i/20080911.b/SIMABN.m
Meth Date : 12-Sep-2008 09:59 peter
Cal Date : 11-SEP-2008 14:21
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: cserv3

Inst ID: nt2.i

Quant Type: ISTD
Cal File: ic091105.d
QC Sample: LCS

Compound Sublist: wind.sub

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2000.00000	Volume of final extract (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/Kg)
$	1 2-Fluorophenol	112	Compound Not Detected.					
$	2 Phenol-d5	99	6.615	6.483	(0.966)	24321	0.22365	14.91(R)
$	5 2-Chlorophenol-d4	132	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	6.794	6.794	(0.992)	270326	2.57601	171.7
*	8 1,4-Dichlorobenzene-d4	152	6.846	6.846	(1.000)	120587	2.00000	
	9 1,4-Dichlorobenzene	146	6.863	6.863	(1.003)	232434	2.57337	171.6
$	10 1,2-Dichlorobenzene-d4	152	6.846	7.088	(1.000)	120587	2.25107	150.1(R)
	11 Benzyl alcohol	79	7.054	7.054	(1.030)	199309	2.41036	160.7
	12 1,2-Dichlorobenzene	146	7.106	7.106	(1.038)	227933	2.63902	175.9
	13 2-Methylphenol	108	7.265	7.265	(1.061)	306046	3.19044	212.7
	16 N-Nitroso-di-n-propylamine	70	7.450	7.450	(1.088)	214935	2.68165	178.8
$	18 Nitrobenzene-d5	82	7.496	7.604	(0.879)	41313	0.35896	23.93
	22 2,4-Dimethylphenol	107	8.125	8.125	(0.953)	291280	3.18109	212.1
	26 1,2,4-Trichlorobenzene	180	8.470	8.471	(0.993)	169825	2.63030	175.4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/Kg)
*	27 Naphthalene-d8	136	8.528	8.528	(1.000)	367139	2.00000	
	30 Hexachlorobutadiene	225	8.816	8.816	(1.034)	110978	2.72604	181.7
$	36 2-Fluorobiphenyl	172	Compound Not Detected.					
	39 Dimethylphthalate	163	10.626	10.626	(0.975)	444343	2.71264	180.8
*	42 Acenaphthene-d10	162	10.903	10.903	(1.000)	198096	2.00000	
	54 N-Nitrosodiphenylamine	169	11.808	11.809	(0.918)	264898	3.68630	245.8
$	55 2,4,6-Tribromophenol	330	11.982	11.971	(0.931)	2334	0.13501	9.001(R)
	57 Hexachlorobenzene	284	12.483	12.484	(0.970)	104255	2.64188	176.1
	58 Pentachlorophenol	266	12.729	12.730	(0.989)	59709	2.75390	183.6
*	59 Phenanthrene-d10	188	12.868	12.869	(1.000)	276935	2.00000	
$	66 Terphenyl-d14	244	Compound Not Detected.					
	67 Butylbenzylphthalate	149	15.799	15.799	(0.959)	318257	2.76936	184.6
*	69 Chrysene-d12	240	16.468	16.468	(1.000)	249315	2.00000	
*	77 Perylene-d12	264	18.268	18.268	(1.000)	284468	2.00000	
	79 Dibenzo(a,h)anthracene	278	19.545	19.545	(1.070)	494195	2.52145	168.1
	90 N-Nitrosodimethylamine	74	3.128	3.136	(0.457)	154383	2.69531	179.7

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ic091108.d
Lab Smp Id: ICV
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20080911.b/SIMABN.m
Misc Info:

Calibration Date: 11-SEP-2008
Calibration Time: 12:09

Level: LOW
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	145031	72516	290062	120587	-16.85
27 Naphthalene-d8	453425	226712	906850	367139	-19.03
42 Acenaphthene-d10	248165	124082	496330	198096	-20.18
59 Phenanthrene-d10	337939	168970	675878	276935	-18.05
69 Chrysene-d12	303486	151743	606972	249315	-17.85
77 Perylene-d12	342418	171209	684836	284468	-16.92

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.85	6.35	7.35	6.85	0.01
27 Naphthalene-d8	8.53	8.03	9.03	8.53	0.01
42 Acenaphthene-d10	10.90	10.40	11.40	10.90	0.01
59 Phenanthrene-d10	12.87	12.37	13.37	12.87	0.01
69 Chrysene-d12	16.47	15.97	16.97	16.47	0.01
77 Perylene-d12	18.27	17.77	18.77	18.27	0.01

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

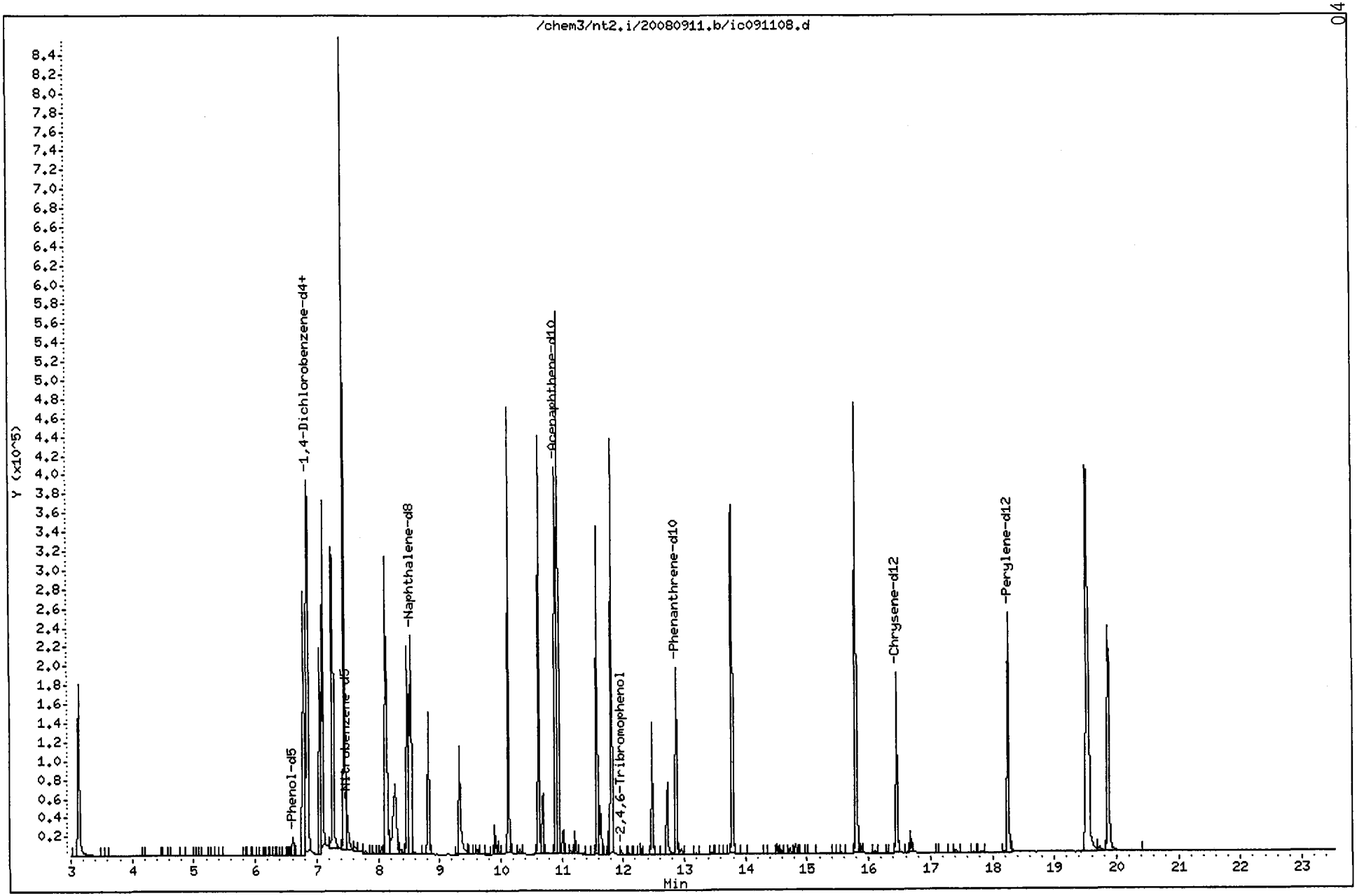
Client Name:
Client SDG: 20080911
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: ICV
Level: LOW
Operator: VTS
Data Type: MS DATA
SampleType: LCS
SpikeList File: wind.spk
Quant Type: ISTD
Sublist File: wind.sub
Method File: /chem3/nt2.i/20080911.b/SIMABN.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	62.50	0.000	*	30-160
$ 2 Phenol-d5	62.50	14.91	23.86*	30-160
$ 5 2-Chlorophenol-d4	62.50	0.000	*	30-160
$ 10 1,2-Dichlorobenzen	41.67	150.1	360.17*	30-160
$ 18 Nitrobenzene-d5	41.67	23.93	57.43	30-160
$ 36 2-Fluorobiphenyl	41.67	0.000	*	30-160
$ 55 2,4,6-Tribromophen	62.50	9.001	14.40*	30-160
$ 66 Terphenyl-d14	41.67	0.000	*	30-160

Data File: /chem3/nt2.i/20080911.b/ic091108.d
Date : 11-SEP-2008 16:00
Client ID:
Sample Info: ICV
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i
Operator: VTS
Column diameter: 0.32

0423



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt2.i/20080911.b/ddt.b/fs0911.d
Method: /chem3/nt2.i/20080911.b/ddt.b/sw846ddt.m
Analysis Date: 11-SEP-2008 11:31

ARI ID:
Misc:
Instrument: nt2.i

COMPOUND	RT	AREA
Pentachlorophenol	12.742	605813
Benzidine	14.739	1408962
4,4'-DDE	----	----
4,4'-DDD	15.503	27122
4,4'-DDT	15.899	1445522

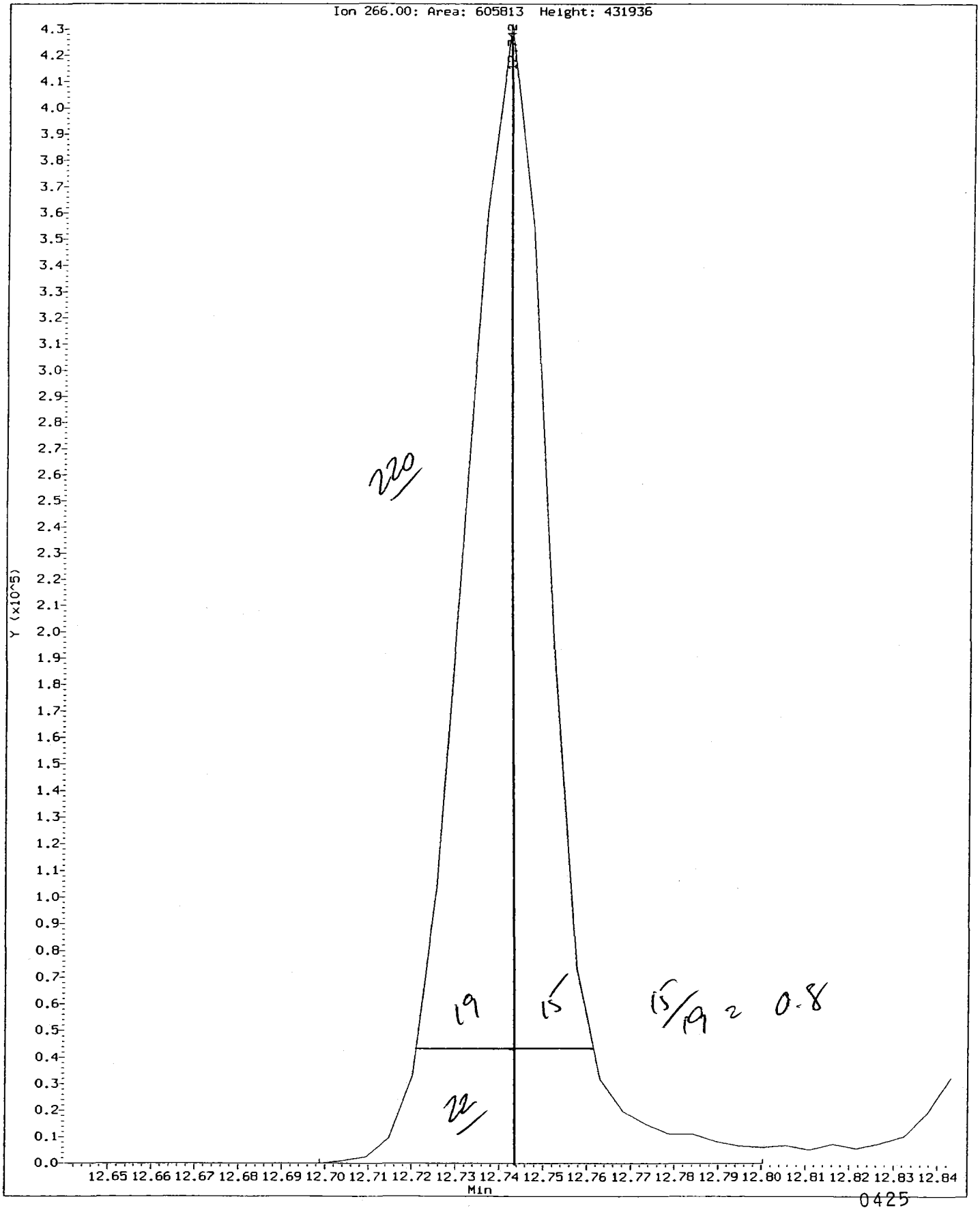
$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(\ 0 + 27122) * 100}{(\ 0 + 27122 + 1445522)}$$

DDT Percent Breakdown = 1.8 %

Data File: /chem3/nt2.i/20080911.b/ddt.b/fs0911.d
Injection Date: 11-SEP-2008 11:31
Instrument: nt2.i
Client Sample ID:

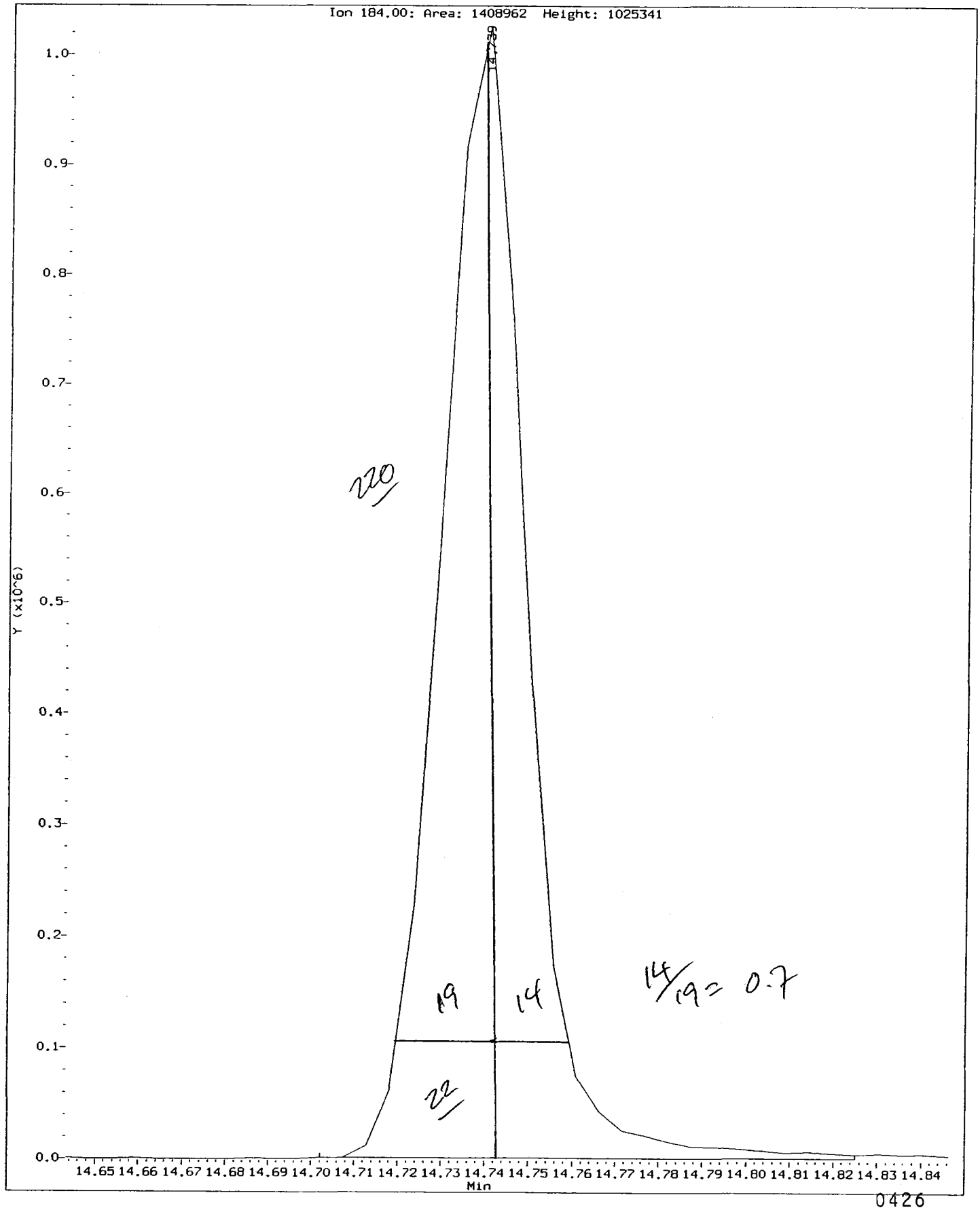
Compound: Pentachlorophenol
CAS Number: 87-86-5



0425

Data File: /chem3/nt2.i/20080911.b/ddt.b/fs0911.d
Injection Date: 11-SEP-2008 11:31
Instrument: nt2.i
Client Sample ID:

Compound: Benzidine
CAS Number:



SEMIVOLATILE 8270-C CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR

ARI Job No: NS52 Project: EDDON BOATYARD

Instrument ID: NT2 Cont. Calib. Date: 10/07/08

Init. Calib. Date: 09/11/08 Cont. Calib. Time: 1327

COMPOUND	CALC AMOUNT	NOM AMOUNT	CURVE	%D	MAX %D
1,3-Dichlorobenzene	2.159	2.500	AVRG	13.6	
1,4-Dichlorobenzene	2.542	2.500	AVRG	-1.7	20.0
1,2-Dichlorobenzene	2.546	2.500	AVRG	-1.8	
Benzyl alcohol	2.247	2.500	2ORDR	10.1	
2-Methylphenol	2.472	2.500	AVRG	1.1	
N-Nitroso-di-n-propylamine	2.593	2.500	AVRG	-3.7	
2,4-Dimethylphenol	2.260	2.500	AVRG	9.6	
1,2,4-Trichlorobenzene	2.513	2.500	AVRG	-0.5	
Hexachlorobutadiene	2.495	2.500	AVRG	0.2	20.0
Dimethylphthalate	2.531	2.500	AVRG	-1.2	
N-Nitrosodiphenylamine(1)	2.557	2.500	AVRG	-2.3	
Hexachlorobenzene	2.567	2.500	AVRG	-2.7	
Pentachlorophenol	2.546	2.500	2ORDR	-1.8	20.0
Butylbenzylphthalate	2.445	2.500	AVRG	2.2	
Dibenzo(a,h)anthracene	2.222	2.500	AVRG	11.1	
N-Nitrosodimethylamine	2.519	2.500	AVRG	-0.8	
2-Fluorophenol	2.573	2.500	AVRG	-2.9	
Phenol-d5	2.538	2.500	AVRG	-1.5	
2-Chlorophenol-d4	2.763	2.500	AVRG	-10.5	
1,2-Dichlorobenzene-d4	2.556	2.500	AVRG	-2.2	
Nitrobenzene-d5	2.393	2.500	AVRG	4.3	
2-Fluorobiphenyl	2.683	2.500	AVRG	-7.3	
2,4,6-Tribromophenol	3.094	2.500	AVRG	-23.8	
Terphenyl-d14	2.456	2.500	AVRG	1.8	

(1) Cannot be separated from Diphenylamine

<- Outside QC limits

FORM VII SV-1

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt2.i/20081007.b/cc1007.d
Lab Smp Id: CC1007
Inj Date : 07-OCT-2008 13:27
Operator : VTS Inst ID: nt2.i
Smp Info : CC1007
Misc Info :
Comment :
Method : /chem3/nt2.i/20081007.b/SIMABN.m
Meth Date : 07-Oct-2008 14:14 van Quant Type: ISTD
Cal Date : 11-SEP-2008 14:21 Cal File: ic091105.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: wind.sub
Target Version: 3.50
Processing Host: cserv3

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1	2-Fluorophenol	112	4.768	4.768	(0.745)	230992	2.50000	2.573
$	2	Phenol-d5	99	6.068	6.068	(0.948)	309988	2.50000	2.538
$	5	2-Chlorophenol-d4	132	6.146	6.146	(0.961)	250020	2.50000	2.763
	7	1,3-Dichlorobenzene	146	6.329	6.329	(0.989)	254467	2.50000	2.159
*	8	1,4-Dichlorobenzene-d4	152	6.398	6.398	(1.000)	135442	2.00000	
	9	1,4-Dichlorobenzene	146	6.415	6.415	(1.003)	257920	2.50000	2.542
$	10	1,2-Dichlorobenzene-d4	152	6.640	6.640	(1.038)	153767	2.50000	2.556
	11	Benzyl alcohol	79	6.640	6.640	(1.038)	208458	2.50000	2.247
	12	1,2-Dichlorobenzene	146	6.657	6.657	(1.041)	246942	2.50000	2.546
	13	2-Methylphenol	108	6.849	6.849	(1.071)	266315	2.50000	2.472
	16	N-Nitroso-di-n-propylamine	70	7.019	7.019	(1.097)	233422	2.50000	2.593
$	18	Nitrobenzene-d5	82	7.157	7.157	(0.887)	340409	2.50000	2.393
	22	2,4-Dimethylphenol	107	7.720	7.720	(0.957)	255855	2.50000	2.260
	26	1,2,4-Trichlorobenzene	180	8.028	8.028	(0.995)	200600	2.50000	2.513
*	27	Naphthalene-d8	136	8.066	8.066	(1.000)	453834	2.00000	
	30	Hexachlorobutadiene	225	8.374	8.374	(1.038)	125537	2.50000	2.495
$	36	2-Fluorobiphenyl	172	9.572	9.572	(0.917)	467745	2.50000	2.683
	39	Dimethylphthalate	163	10.177	10.177	(0.975)	461448	2.50000	2.531
*	42	Acenaphthene-d10	162	10.437	10.437	(1.000)	220455	2.00000	
	54	N-Nitrosodiphenylamine	169	11.359	11.359	(0.917)	214576	2.50000	2.557
$	55	2,4,6-Tribromophenol	330	11.497	11.497	(0.928)	62466	2.50000	3.094
	57	Hexachlorobenzene	284	11.998	11.998	(0.969)	118321	2.50000	2.567
	58	Pentachlorophenol	266	12.245	12.245	(0.989)	64386	2.50000	2.546
*	59	Phenanthrene-d10	188	12.383	12.383	(1.000)	323435	2.00000	
$	66	Terphenyl-d14	244	14.585	14.585	(0.915)	264487	2.50000	2.456
	67	Butylbenzylphthalate	149	15.325	15.325	(0.961)	306768	2.50000	2.445

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
* 69 Chrysene-d12	240	15.944	15.944	(1.000)	272204	2.00000	
* 77 Perylene-d12	264	17.729	17.729	(1.000)	284259	2.00000	
79 Dibenzo(a,h)anthracene	278	18.883	18.883	(1.065)	435154	2.50000	2.222
90 N-Nitrosodimethylamine	74	2.484	2.484	(0.388)	162056	2.50000	2.519

VTS
10.7.2008

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: cc1007.d
Lab Smp Id: CC1007
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20081007.b/SIMABN.m
Misc Info:

Calibration Date: 07-OCT-2008
Calibration Time: 12:11

Level:
Sample Type:

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	93830	46915	187660	135442	44.35
27 Naphthalene-d8	352143	176072	704286	453834	28.88
42 Acenaphthene-d10	193201	96600	386402	220455	14.11
59 Phenanthrene-d10	282458	141229	564916	323435	14.51
69 Chrysene-d12	275652	137826	551304	272204	-1.25
77 Perylene-d12	261046	130523	522092	284259	8.89

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.39	5.89	6.89	6.40	0.07
27 Naphthalene-d8	8.08	7.58	8.58	8.07	-0.19
42 Acenaphthene-d10	10.44	9.94	10.94	10.44	-0.01
59 Phenanthrene-d10	12.39	11.89	12.89	12.38	-0.08
69 Chrysene-d12	15.96	15.46	16.46	15.94	-0.08
77 Perylene-d12	17.73	17.23	18.23	17.73	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt2.i
Lab File ID: cc1007.d
Analysis Type:
Lab Sample ID: CC1007
Method: /chem3/nt2.i/20081007.b/SIMABN.m

Injection Date: 07-OCT-2008 13:27
Init. Cal. Date(s): 11-SEP-2008 11-SEP-2008
Init. Cal. Times: 12:09 15:27
Quant Type: ISTD

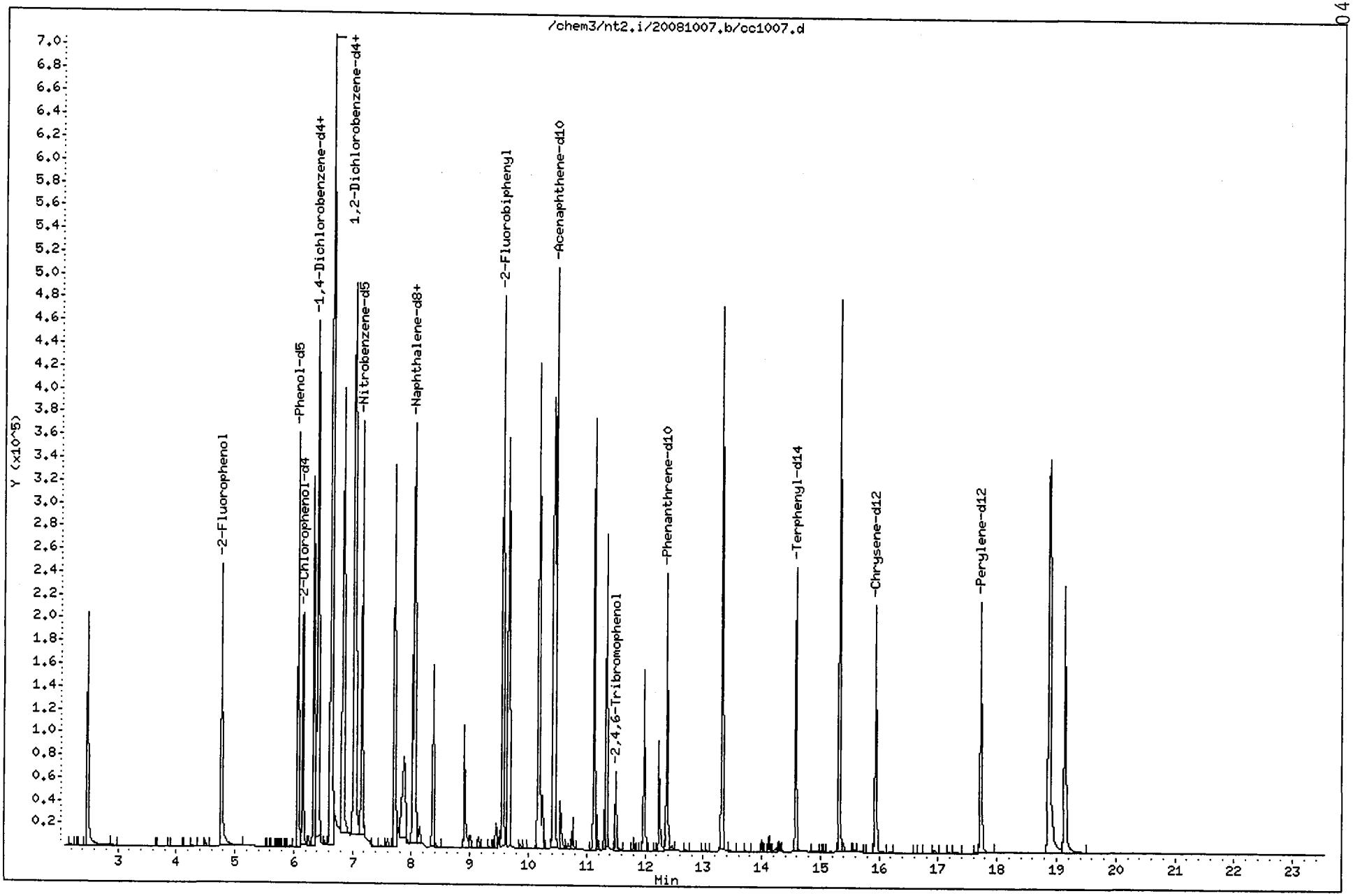
COMPOUND	RRF / AMOUNT	RF2	CCAL RRF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 2-Fluorophenol	1.32577	1.36437	1.36437	0.010	-2.91171	100	Averaged
$ 2 Phenol-d5	1.80364	1.83097	1.83097	0.010	-1.51542	100	Averaged
$ 5 2-Chlorophenol-d4	1.33636	1.47676	1.47676	0.010	-10.50661	100	Averaged
7 1,3-Dichlorobenzene	1.74048	1.50303	1.50303	0.010	13.64288	100	Averaged
9 1,4-Dichlorobenzene	1.49805	1.52343	1.52343	0.010	-1.69399	20.00000	Averaged
$ 10 1,2-Dichlorobenzene-d4	0.88847	0.90824	0.90824	0.010	-2.22519	100	Averaged
11 Benzyl alcohol	2.24665	2.50000	1.23128	0.010	10.13405	100	Quadratic
12 1,2-Dichlorobenzene	1.43250	1.45858	1.45858	0.010	-1.82110	100	Averaged
13 2-Methylphenol	1.59098	1.57301	1.57301	0.010	1.12937	100	Averaged
16 N-Nitroso-di-n-propylamine	1.32934	1.37873	1.37873	0.050	-3.71545	100	Averaged
$ 18 Nitrobenzene-d5	0.62696	0.60006	0.60006	0.010	4.29110	100	Averaged
22 2,4-Dimethylphenol	0.49881	0.45101	0.45101	0.010	9.58250	100	Averaged
26 1,2,4-Trichlorobenzene	0.35172	0.35361	0.35361	0.010	-0.53737	100	Averaged
30 Hexachlorobutadiene	0.22177	0.22129	0.22129	0.010	0.21611	20.00000	Averaged
$ 36 2-Fluorobiphenyl	1.58150	1.69738	1.69738	0.010	-7.32695	100	Averaged
39 Dimethylphthalate	1.65379	1.67453	1.67453	0.010	-1.25413	100	Averaged
54 N-Nitrosodiphenylamine	0.51897	0.53074	0.53074	0.010	-2.26898	20.00000	Averaged
$ 55 2,4,6-Tribromophenol	0.12485	0.15451	0.15451	0.010	-23.75853	100	Averaged
57 Hexachlorobenzene	0.28499	0.29266	0.29266	0.010	-2.69027	100	Averaged
58 Pentachlorophenol	2.54614	2.50000	0.15926	0.005	-1.84559	20.00000	Quadratic
$ 66 Terphenyl-d14	0.79128	0.77732	0.77732	0.010	1.76380	100	Averaged
67 Butylbenzylphthalate	0.92189	0.90158	0.90158	0.010	2.20312	100	Averaged
79 Dibenzo(a,h)anthracene	1.37798	1.22467	1.22467	0.010	11.12609	100	Averaged
90 N-Nitrosodimethylamine	0.94999	0.95720	0.95720	0.010	-0.75838	100	Averaged

Data File: /chem3/nt2.i/20081007.b/cc1007.d
Date : 07-OCT-2008 13:27
Client ID:
Sample Info: CC1007

Instrument: nt2.i

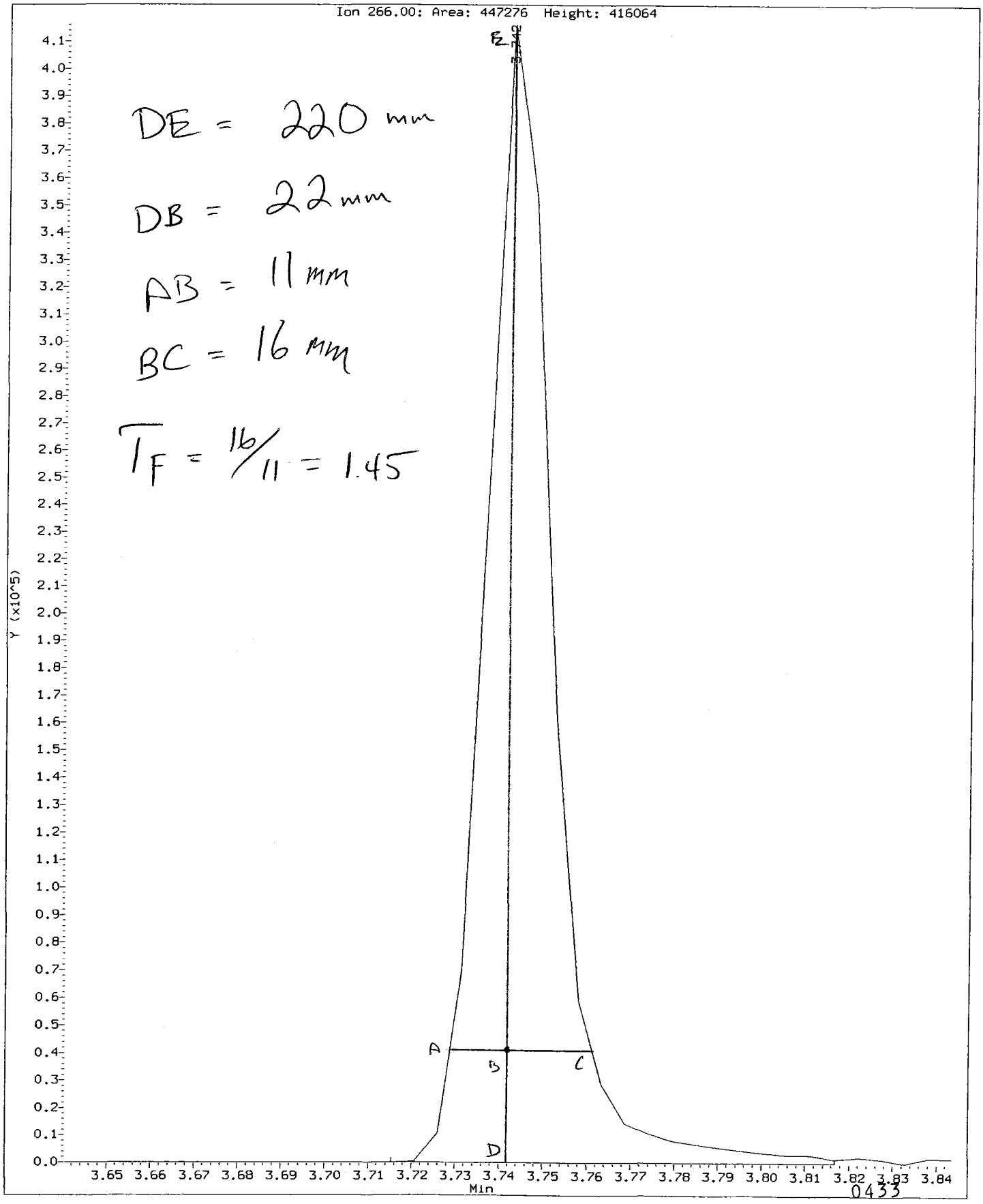
Operator: VTS
Column diameter: 0.32

Column phase: ZB-5



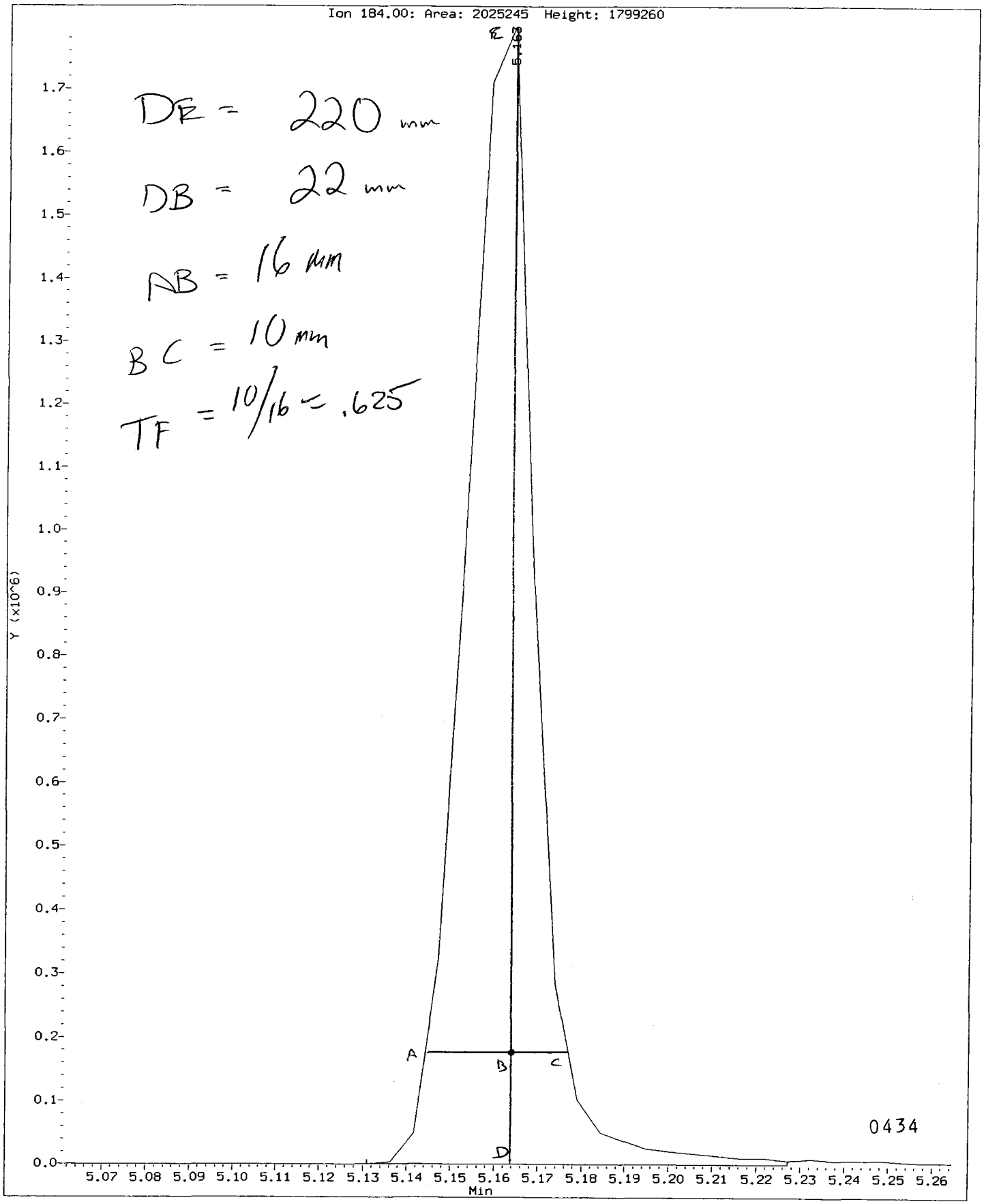
Data File: /chem3/nt2.i/20081007.b/ddt.b/df1007.d
Injection Date: 07-OCT-2008 13:09
Instrument: nt2.i
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt2.i/20081007.b/ddt.b/df1007.d
Injection Date: 07-OCT-2008 13:09
Instrument: nt2.i
Client Sample ID:

Compound: Benzidine
CAS Number:



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt2.i/20081007.b/ddt.b/df1007.d
Method: /chem3/nt2.i/20081007.b/ddt.b/sw846ddt.m
Analysis Date: 07-OCT-2008 13:09

ARI ID: DF1007
Misc:
Instrument: nt2.i

COMPOUND	RT	AREA
Pentachlorophenol	3.742	447275
Benzidine	5.163	2025244
4,4'-DDE	5.387	1709
4,4'-DDD	5.713	71001
4,4'-DDT	5.996	859475

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(\ 1709 + 71001) * 100}{(\ 1709 + 71001 + 859475)}$$

DDT Percent Breakdown = 7.8 %

SIM SVOA Analysis
QC Raw Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NOS: NS52

prepared
by

Analytical Resources, Inc.

Data File: /chem3/nt2.i/20080911.b/tune.b/fs0911.d

Date : 11-SEP-2008 11:31

Client ID:

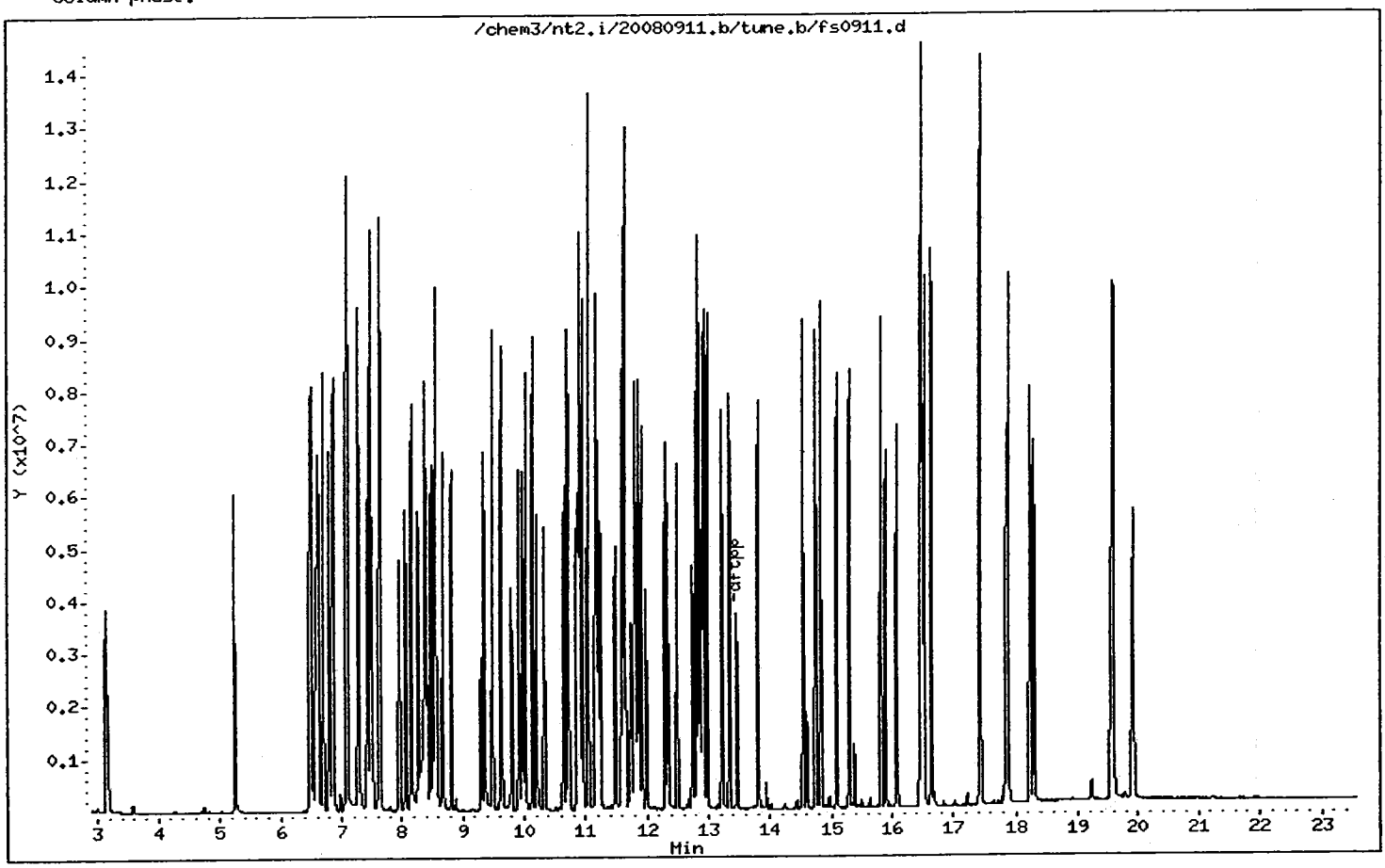
Instrument: nt2.i

Sample Info: ABN 25

Operator: VTS

Column phase:

Column diameter: 0.25



Data File: /chem3/nt2.i/20080911.b/tune.b/fs0911.d

Date : 11-SEP-2008 11:31

Client ID:

Instrument: nt2.i

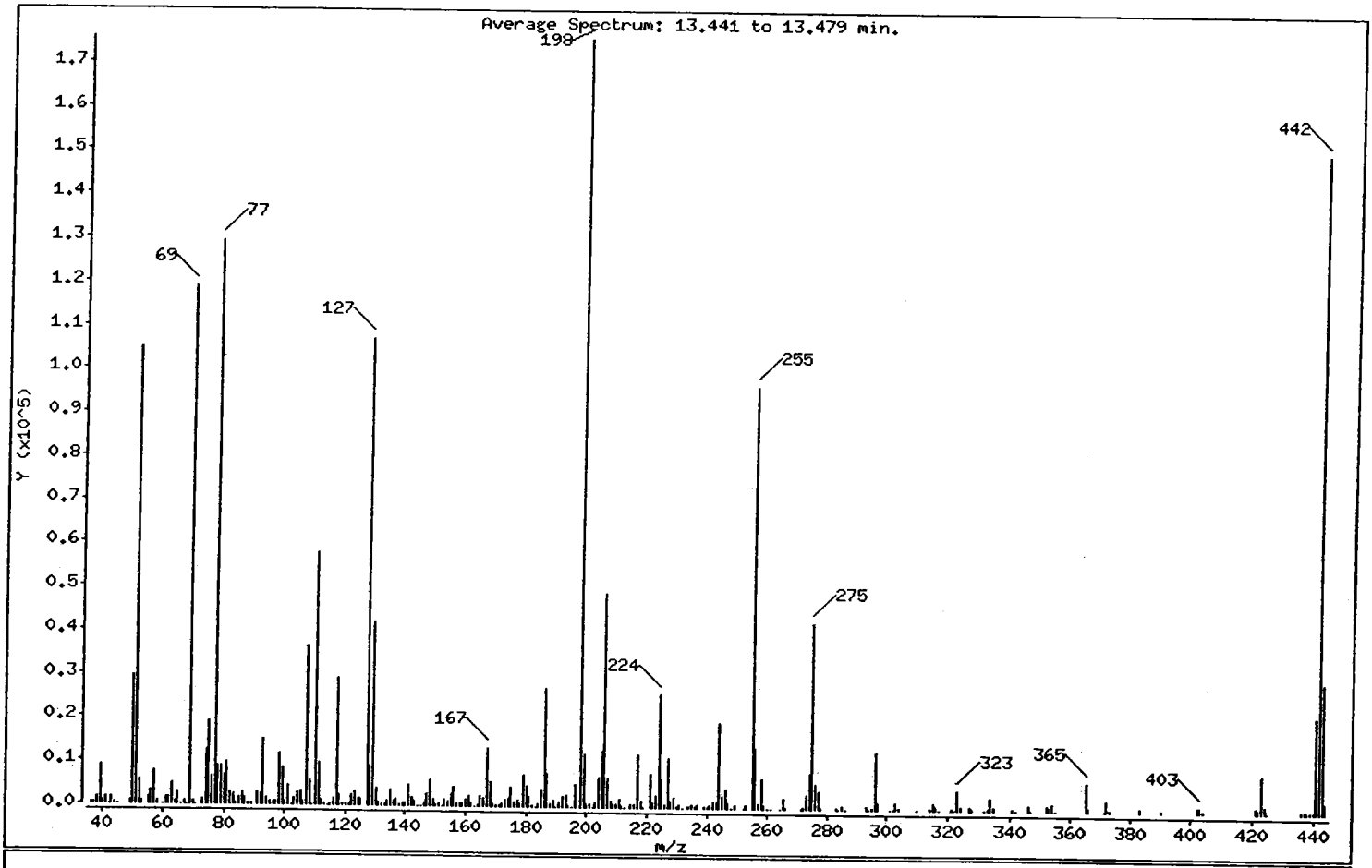
Sample Info: ABN 25

Operator: VTS

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	59.84
68	Less than 2.00% of mass 69	0.07 (0.10)
69	Mass 69 relative abundance	67.53
70	Less than 2.00% of mass 69	0.50 (0.73)
127	25.00 - 75.00% of mass 198	60.99
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.00
275	10.00 - 30.00% of mass 198	24.22
365	Greater than 0.75% of mass 198	3.64
441	Present, but less than mass 443	12.33
442	40.00 - 110.00% of mass 198	85.73
443	15.00 - 24.00% of mass 442	16.81 (19.61)

Data File: /chem3/nt2.i/20080911.b/tune.b/fs0911.d

Date : 11-SEP-2008 11:31

Client ID:

Instrument: nt2.i

Sample Info: ABN 25

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: fs0911.d

Spectrum: Average Spectrum: 13.441 to 13.479 min.

Location of Maximum: 198.00

Number of points: 281

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	215	114.00	76	186.00	27104	271.00	69
37.00	566	115.00	519	187.00	7832	272.00	416
38.00	1758	116.00	1788	188.00	774	273.00	3101
39.00	9014	117.00	29064	189.00	1733	274.00	8161
40.00	771	118.00	2300	190.00	145	275.00	42544
41.00	1435	119.00	277	191.00	1011	276.00	5612
42.00	68	120.00	364	192.00	2362	277.00	4086
43.00	1432	121.00	237	193.00	2700	278.00	489
44.00	383	122.00	2443	194.00	577	283.00	325
45.00	68	123.00	3275	195.00	85	284.00	167
49.00	655	124.00	1594	196.00	5199	285.00	658
50.00	29576	125.00	1512	198.00	175616	286.00	68
51.00	105112	127.00	107120	199.00	12301	293.00	819
52.00	5733	128.00	8725	200.00	900	294.00	75
53.00	626	129.00	41928	201.00	978	295.00	403
55.00	1578	130.00	3947	202.00	155	296.00	12882
56.00	3134	131.00	843	203.00	1356	297.00	1706
57.00	7560	132.00	262	204.00	6687	301.00	70
58.00	616	133.00	252	205.00	12757	302.00	137
60.00	159	134.00	1296	206.00	48672	303.00	1681
61.00	1454	135.00	3833	207.00	7017	304.00	327
62.00	1650	136.00	1300	208.00	1543	310.00	68
63.00	4873	137.00	1807	209.00	615	314.00	580
64.00	666	138.00	411	210.00	892	315.00	1430
65.00	2662	139.00	758	211.00	2218	316.00	713
66.00	92	140.00	734	212.00	234	317.00	66
67.00	739	141.00	4940	213.00	78	321.00	323
68.00	119	142.00	1830	215.00	730	322.00	192
69.00	118616	143.00	1270	216.00	788	323.00	4353
70.00	871	144.00	185	217.00	12222	324.00	677
71.00	152	145.00	175	218.00	1673	327.00	748
73.00	1349	146.00	983	219.00	63	328.00	300
74.00	12351	147.00	2760	221.00	7665	332.00	201
75.00	18904	148.00	6203	222.00	1331	333.00	325
76.00	6396	149.00	1444	223.00	2748	334.00	2967

Data File: /chem3/nt2.i/20080911.b/tune.b/fs0911.d

Date : 11-SEP-2008 11:31

Client ID:

Instrument: nt2.i

Sample Info: ABN 25

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: fs0911.d

Spectrum: Average Spectrum: 13.441 to 13.479 min.

Location of Maximum: 198.00

Number of points: 281

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.00	129168	150.00	260	224.00	25712	335.00	636
78.00	8804	151.00	791	225.00	6309	341.00	447
79.00	9056	152.00	174	226.00	743	342.00	68
80.00	7021	153.00	1658	227.00	11199	346.00	1209
81.00	9728	154.00	1199	228.00	1592	347.00	162
82.00	2679	155.00	2694	229.00	2486	352.00	1247
83.00	2369	156.00	4612	230.00	335	353.00	863
84.00	457	157.00	825	231.00	950	354.00	1545
85.00	1750	158.00	885	232.00	174	355.00	177
86.00	2783	159.00	742	234.00	505	365.00	6391
87.00	1522	160.00	1807	235.00	711	366.00	930
88.00	570	161.00	2413	236.00	521	371.00	85
89.00	284	162.00	646	237.00	748	372.00	2361
91.00	2634	163.00	73	239.00	485	373.00	550
92.00	2407	164.00	317	240.00	380	383.00	632
93.00	15099	165.00	2281	241.00	617	390.00	238
94.00	1528	166.00	2123	242.00	1651	402.00	1018
95.00	831	167.00	13175	243.00	1491	403.00	1376
96.00	877	168.00	5792	244.00	19272	404.00	415
97.00	651	169.00	888	245.00	2777	421.00	1078
98.00	11612	170.00	206	246.00	4374	422.00	996
99.00	8677	171.00	393	247.00	1104	423.00	8585
100.00	920	172.00	813	248.00	66	424.00	1758
101.00	4406	173.00	1418	249.00	672	425.00	65
102.00	152	174.00	2161	252.00	183	436.00	230
103.00	1432	175.00	4469	253.00	687	437.00	416
104.00	2764	176.00	1096	255.00	96552	438.00	510
105.00	3405	177.00	1644	256.00	13834	439.00	422
106.00	638	178.00	807	257.00	1062	440.00	272
107.00	36288	179.00	7096	258.00	6671	441.00	21656
108.00	5775	180.00	5016	259.00	947	442.00	150528
109.00	77	181.00	2496	260.00	75	443.00	29528
110.00	57672	182.00	314	261.00	64	444.00	2586
111.00	9673	183.00	130	264.00	72		
112.00	1284	184.00	658	265.00	2262		

Data File: /chem3/nt2.i/20080911.b/tune.b/fs0911.d

Date : 11-SEP-2008 11:31

Client ID:

Instrument: nt2.i

Sample Info: ABN 25

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: fs0911.d
Spectrum: Average Spectrum: 13.441 to 13.479 min.
Location of Maximum: 198.00
Number of points: 281

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	595	185.00	3845	266.00	414		

Data File: /chem3/nt2.i/20081007.b/df1007.d

Date : 07-OCT-2008 13:09

Client ID:

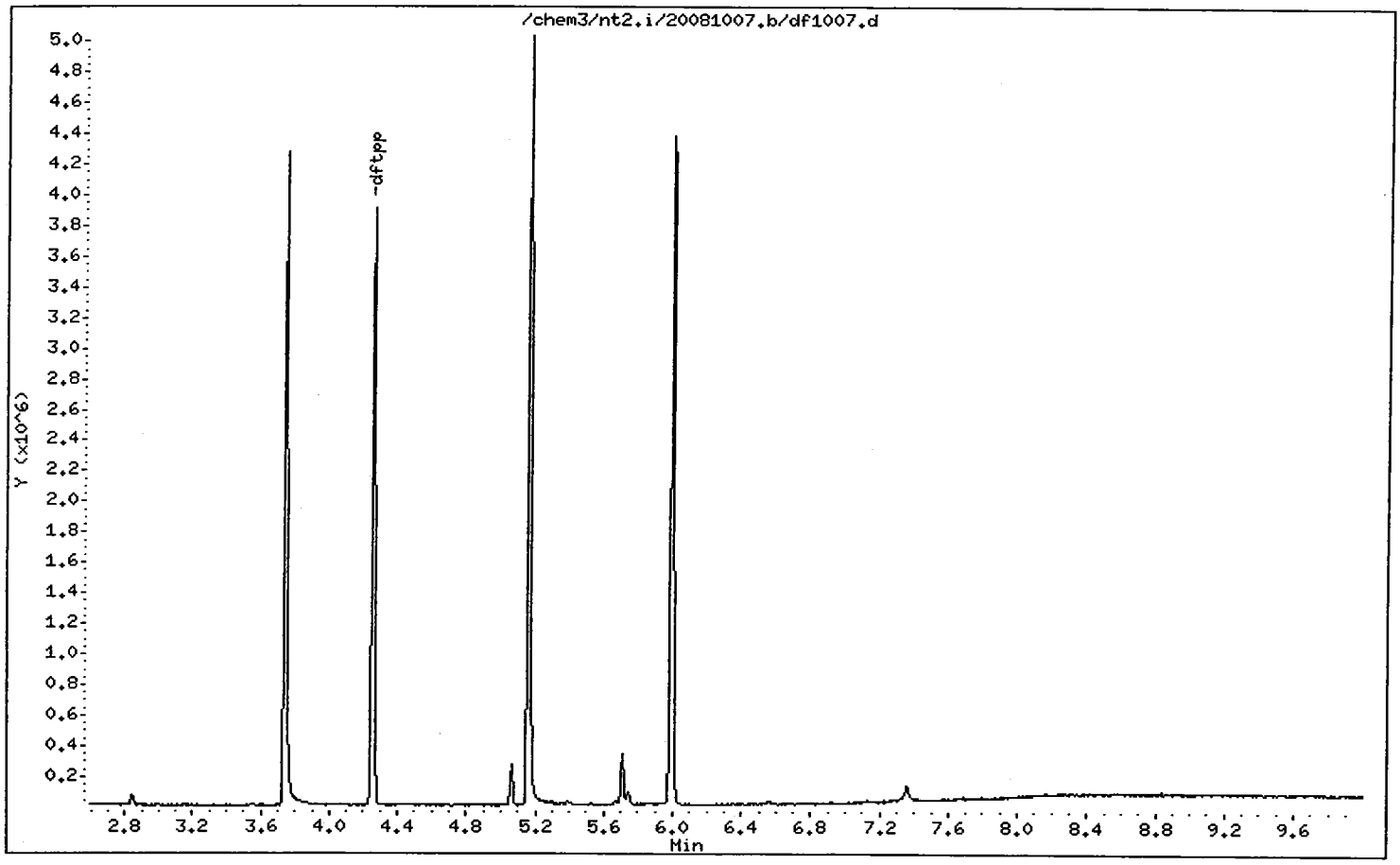
Instrument: nt2.i

Sample Info: DF1007

Operator: VTS

Column phase:

Column diameter: 0.25



Data File: /chem3/nt2.i/20081007.b/df1007.d

Date : 07-OCT-2008 13:09

Client ID:

Instrument: nt2.i

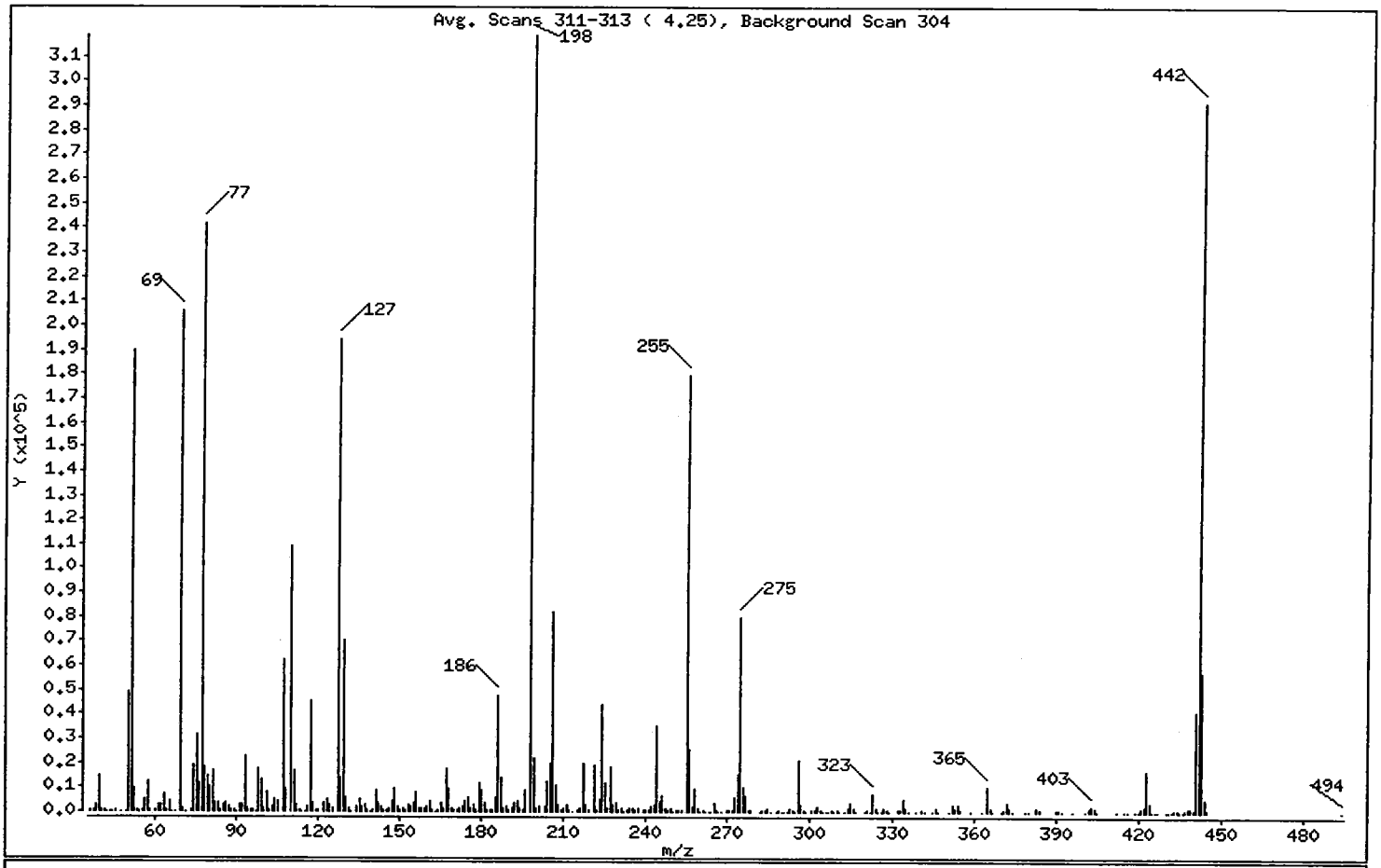
Sample Info: DF1007

Operator: VTS

Column phase:

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	59.63
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	64.64
70	Less than 2.00% of mass 69	0.45 (0.70)
127	25.00 - 75.00% of mass 198	60.83
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.92
275	10.00 - 30.00% of mass 198	25.16
365	Greater than 0.75% of mass 198	3.18
441	Present, but less than mass 443	12.95
442	40.00 - 110.00% of mass 198	91.50
443	15.00 - 24.00% of mass 442	17.89 (19.55)

Data File: /chem3/nt2.i/20081007.b/df1007.d

Date : 07-OCT-2008 13:09

Client ID:

Instrument: nt2.i

Sample Info: DF1007

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1007.d

Spectrum: Avg. Scans 311-313 (4.25), Background Scan 304

Location of Maximum: 198.00

Number of points: 338

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	492	130.00	5890	219.00	562	313.00	129
37.00	997	131.00	1135	221.00	19192	314.00	1252
38.00	2878	132.00	338	222.00	1062	315.00	3407
39.00	14644	134.00	1858	223.00	5226	316.00	1382
40.00	881	135.00	5352	224.00	44176	317.00	262
41.00	673	136.00	1953	225.00	11800	320.00	100
42.00	34	137.00	2658	226.00	1410	321.00	831
43.00	116	138.00	826	227.00	18352	322.00	332
44.00	160	139.00	264	228.00	3089	323.00	7669
45.00	454	140.00	509	229.00	3496	324.00	1375
47.00	104	141.00	8533	230.00	885	325.00	101
49.00	134	142.00	3446	231.00	1788	326.00	123
50.00	48712	143.00	1955	232.00	207	327.00	1821
51.00	189952	144.00	690	233.00	450	328.00	705
52.00	9749	145.00	434	234.00	1135	329.00	72
53.00	489	146.00	1442	235.00	1635	332.00	747
54.00	71	147.00	4151	236.00	1014	333.00	863
55.00	796	148.00	9521	237.00	1550	334.00	5343
56.00	4992	149.00	2069	239.00	858	335.00	1466
57.00	12159	150.00	639	240.00	950	336.00	262
58.00	769	151.00	1470	241.00	804	339.00	108
60.00	455	152.00	760	242.00	2265	341.00	811
61.00	2671	153.00	2686	243.00	2916	342.00	327
62.00	2860	154.00	2043	244.00	34960	345.00	91
63.00	7398	155.00	3921	245.00	4607	346.00	1668
64.00	1083	156.00	8045	246.00	6918	347.00	266
65.00	4193	157.00	1493	247.00	1346	351.00	197
66.00	336	158.00	1226	248.00	435	352.00	2575
67.00	118	159.00	1398	249.00	1151	353.00	1750
69.00	205952	160.00	2551	250.00	215	354.00	3003
70.00	1433	161.00	4492	251.00	384	355.00	598
71.00	238	162.00	943	252.00	676	359.00	141
73.00	844	163.00	288	253.00	1016	363.00	150
74.00	18768	164.00	810	255.00	179712	365.00	10137
75.00	31312	165.00	3359	256.00	25568	366.00	1368

Data File: /chem3/nt2.i/20081007.b/df1007.d

Date : 07-OCT-2008 13:09

Client ID:

Instrument: nt2.i

Sample Info: DF1007

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1007.d
Spectrum: Avg. Scans 311-313 (4.25), Background Scan 304
Location of Maximum: 198.00
Number of points: 338

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.00	11996	166.00	1692	257.00	2160	367.00	105
77.00	241408	167.00	17256	258.00	9444	370.00	201
78.00	18048	168.00	9599	259.00	1682	371.00	801
79.00	14549	169.00	1696	260.00	226	372.00	3764
80.00	9915	170.00	688	261.00	405	373.00	1264
81.00	16728	171.00	727	262.00	96	374.00	99
82.00	3656	172.00	1368	263.00	218	379.00	93
83.00	3354	173.00	2106	264.00	307	380.00	75
84.00	522	174.00	4096	265.00	3620	383.00	1187
85.00	2870	175.00	5910	266.00	460	384.00	392
86.00	3579	176.00	1437	267.00	175	390.00	552
87.00	1899	177.00	2766	268.00	97	391.00	421
88.00	715	178.00	975	270.00	410	392.00	321
89.00	628	179.00	11694	271.00	526	396.00	83
90.00	69	180.00	8830	272.00	497	401.00	271
91.00	2669	181.00	3843	273.00	5943	402.00	1679
92.00	2953	182.00	959	274.00	15153	403.00	2160
93.00	23008	183.00	493	275.00	80168	404.00	1296
94.00	1617	184.00	1022	276.00	10335	405.00	90
95.00	544	185.00	6120	277.00	6319	412.00	98
96.00	696	186.00	47808	278.00	1053	415.00	228
97.00	153	187.00	13674	279.00	430	416.00	87
98.00	17624	188.00	1605	282.00	277	419.00	79
99.00	13159	189.00	2445	283.00	945	420.00	67
100.00	1183	190.00	413	284.00	652	421.00	1829
101.00	8399	191.00	1393	285.00	1247	422.00	1961
102.00	396	192.00	3595	286.00	110	423.00	16680
103.00	2034	193.00	4400	288.00	142	424.00	3325
104.00	4810	194.00	1153	289.00	525	425.00	247
105.00	4700	195.00	999	290.00	97	426.00	70
107.00	62328	196.00	9118	291.00	293	427.00	84
108.00	9606	198.00	318592	292.00	326	430.00	265
110.00	109288	199.00	22032	293.00	1643	431.00	100
111.00	16544	200.00	1790	294.00	548	432.00	290
112.00	2697	201.00	2397	295.00	76	433.00	371

Data File: /chem3/nt2.i/20081007.b/df1007.d

Date : 07-OCT-2008 13:09

Client ID:

Instrument: nt2.i

Sample Info: DF1007

Operator: VTS

Column phase:

Column diameter: 0.25

Data File: df1007.d

Spectrum: Avg. Scans 311-313 (4.25), Background Scan 304

Location of Maximum: 198.00

Number of points: 338

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	451	203.00	1983	296.00	21584	434.00	376
114.00	83	204.00	12644	297.00	2920	435.00	215
115.00	231	205.00	19728	298.00	544	436.00	348
116.00	2549	206.00	82320	299.00	70	437.00	893
117.00	45656	207.00	11241	301.00	481	438.00	1186
118.00	3304	208.00	2789	302.00	554	439.00	1268
119.00	607	209.00	782	303.00	2341	440.00	630
120.00	739	210.00	1612	304.00	703	441.00	41256
122.00	3354	211.00	3261	305.00	73	442.00	291456
123.00	5473	212.00	516	306.00	71	443.00	56992
124.00	2791	213.00	74	307.00	78	444.00	4875
125.00	1817	215.00	796	308.00	381	445.00	510
127.00	193792	216.00	1184	309.00	170	494.00	96
128.00	13982	217.00	19608	310.00	405		
129.00	69952	218.00	2922	311.00	88		

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by Selected Ion Monitoring GC/MS **Sample ID: MB-100608**
METHOD BLANK
Page 1 of 1

Lab Sample ID: MB-100608
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 10/06/08
Date Analyzed: 10/07/08 16:15
Instrument/Analyst: NT2/VTS
GPC Cleanup: No
Silica Gel Cleanup: No
Alumina Cleanup: No

Sample Amount: 16.0 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
53-70-3	Dibenz(a,h)anthracene	6.2	< 6.2 U
106-46-7	1,4-Dichlorobenzene	6.2	< 6.2 U
120-82-1	1,2,4-Trichlorobenzene	6.2	< 6.2 U
118-74-1	Hexachlorobenzene	6.2	< 6.2 U
87-68-3	Hexachlorobutadiene	6.2	< 6.2 U
85-68-7	Butylbenzylphthalate	16	< 16 U
95-48-7	2-Methylphenol	6.2	< 6.2 U
105-67-9	2,4-Dimethylphenol	6.2	< 6.2 U
86-30-6	N-Nitrosodiphenylamine	6.2	< 6.2 U
100-51-6	Benzyl Alcohol	31	< 31 U
87-86-5	Pentachlorophenol	31	< 31 U
95-50-1	1,2-Dichlorobenzene	6.2	< 6.2 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

2-Fluorobiphenyl	68.0%	d5-Phenol	72.0%
2-Fluorophenol	78.9%	d4-2-Chlorophenol	76.5%
d4-1,2-Dichlorobenzene	62.0%	d5-Nitrobenzene	69.6%
2,4,6-Tribromophenol	53.9%	d14-p-Terphenyl	98.4%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt2.i/20081007.b/ns52mbr.d
Lab Smp Id: NS52MBS1 Client Smp ID: NS52MBS1
Inj Date : 07-OCT-2008 16:15
Operator : VTS Inst ID: nt2.i
Smp Info : NS52MBS1
Misc Info : 08-26290
Comment :
Method : /chem3/nt2.i/20081007.b/SIMABN.m
Meth Date : 07-Oct-2008 15:24 van Quant Type: ISTD
Cal Date : 11-SEP-2008 14:21 Cal File: ic091105.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: wind.sub
Target Version: 3.50
Processing Host: cserv3

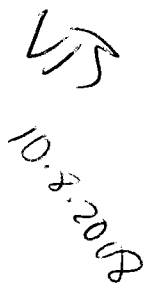
Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	16.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	1 2-Fluorophenol	112	4.791	4.768	(0.751)	242757	2.96463	185.3
$	2 Phenol-d5	99	6.068	6.068	(0.951)	301217	2.70395	169.0
$	5 2-Chlorophenol-d4	132	6.137	6.146	(0.962)	236538	2.86580	179.1
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	6.380	6.398	(1.000)	123527	2.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	6.622	6.640	(1.038)	85192	1.55248	97.03
	11 Benzyl alcohol	79	Compound Not Detected.					
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	7.142	7.157	(0.885)	226141	1.74187	108.9
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	27 Naphthalene-d8	136	8.066	8.066	(1.000)	414145	2.00000	
	30 Hexachlorobutadiene	225	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	9.573	9.572	(0.919)	276472	1.70258	106.4
	39 Dimethylphthalate	163	Compound Not Detected.					
*	42 Acenaphthene-d10	162	10.421	10.437	(1.000)	205354	2.00000	
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	11.522	11.497	(0.930)	38667	2.01562	126.0
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	12.382	12.383	(1.000)	307320	2.00000	
$	66 Terphenyl-d14	244	14.586	14.585	(0.915)	241816	2.46085	153.8
	67 Butylbenzylphthalate	149	Compound Not Detected.					
*	69 Chrysene-d12	240	15.945	15.944	(1.000)	248371	2.00000	
*	77 Perylene-d12	264	17.715	17.729	(1.000)	162127	2.00000	
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					



Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ns52mbr.d
Lab Smp Id: NS52MBS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20081007.b/SIMABN.m
Misc Info: 08-26290

Calibration Date: 07-OCT-2008
Calibration Time: 13:27
Client Smp ID: NS52MBS1
Level: LOW
Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	135442	67721	270884	123527	-8.80
27 Naphthalene-d8	453834	226917	907668	414145	-8.75
42 Acenaphthene-d10	220455	110228	440910	205354	-6.85
59 Phenanthrene-d10	323435	161718	646870	307320	-4.98
69 Chrysene-d12	272204	136102	544408	248371	-8.76
77 Perylene-d12	284259	142130	568518	162127	-42.97

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.40	5.90	6.90	6.38	-0.28
27 Naphthalene-d8	8.07	7.57	8.57	8.07	0.00
42 Acenaphthene-d10	10.44	9.94	10.94	10.42	-0.15
59 Phenanthrene-d10	12.38	11.88	12.88	12.38	-0.01
69 Chrysene-d12	15.94	15.44	16.44	15.95	0.01
77 Perylene-d12	17.73	17.23	18.23	17.71	-0.08

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

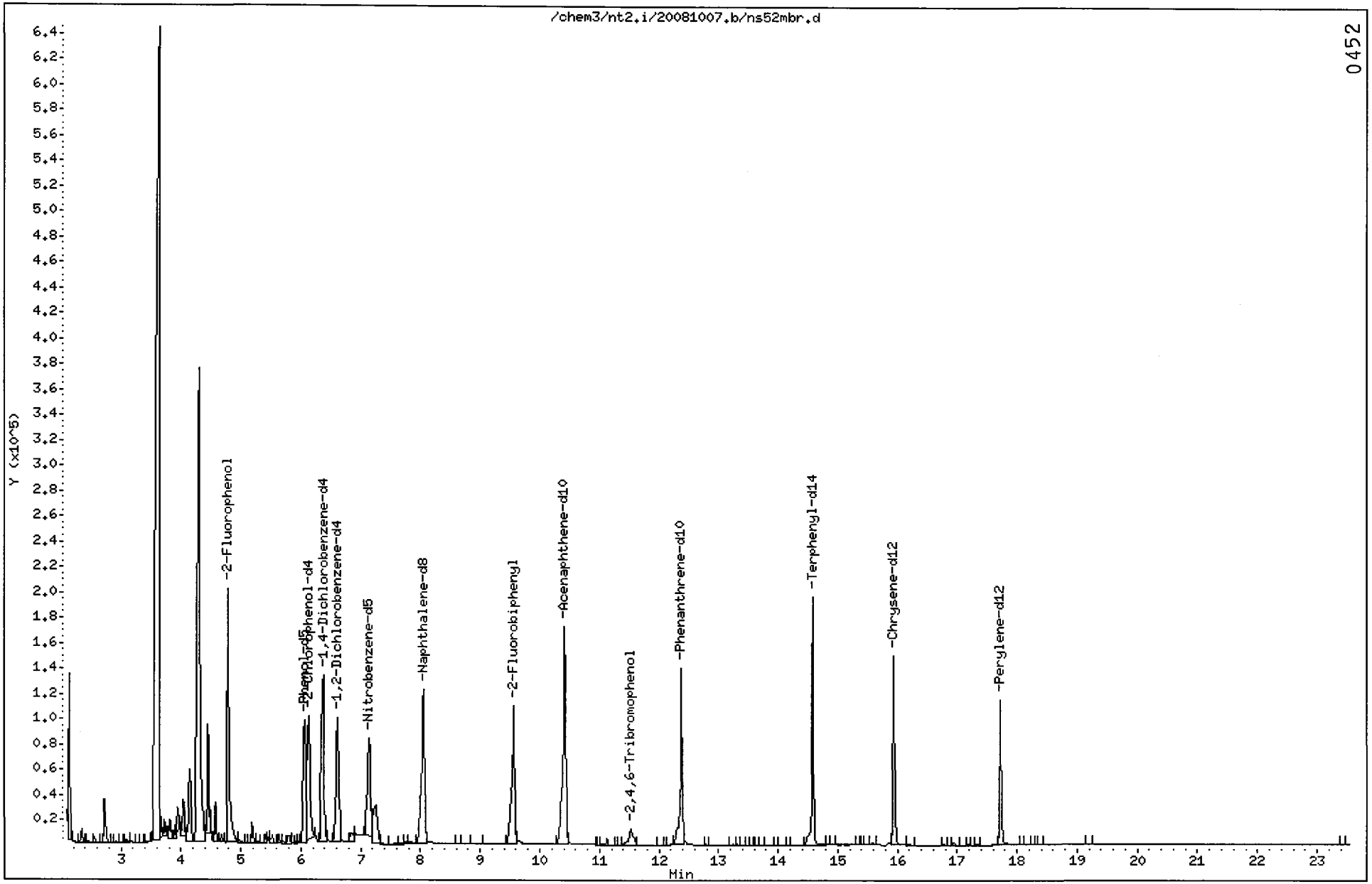
Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: NS52MBS1
Level: LOW
Data Type: MS DATA
SpikeList File: wind.spk
Sublist File: wind.sub
Method File: /chem3/nt2.i/20081007.b/SIMABN.m
Misc Info: 08-26290

Client SDG: NS52
Fraction: SV
Client Smp ID: NS52MBS1
Operator: VTS
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	234.4	185.3	79.06	30-160
$ 2 Phenol-d5	234.4	169.0	72.11	30-160
$ 5 2-Chlorophenol-d4	234.4	179.1	76.42	30-160
$ 10 1,2-Dichlorobenzen	156.3	97.03	62.10	30-160
$ 18 Nitrobenzene-d5	156.3	108.9	69.67	30-160
$ 36 2-Fluorobiphenyl	156.3	106.4	68.10	30-160
$ 55 2,4,6-Tribromophen	234.4	126.0	53.75	30-160
$ 66 Terphenyl-d14	156.3	153.8	98.43	30-160

Data File: /chem3/nt2.i/20081007.b/ns52mbr.d
Date : 07-OCT-2008 16:15
Client ID: NS52MBS1
Sample Info: NS52MBS1
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i
Operator: VTS
Column diameter: 0.32



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by Selected Ion Monitoring GC/MS **Sample ID: EB-SE04-A-081003**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: NS52E
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/06/08
Date Analyzed: 10/07/08 18:58
Instrument/Analyst: NT2/VTS
GPC Cleanup: No
Silica Gel Cleanup: No
Alumina Cleanup: No

Sample Amount: 16.9 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 27.5%

CAS Number	Analyte	RL	Result
53-70-3	Dibenz(a,h)anthracene	5.9	---
106-46-7	1,4-Dichlorobenzene	5.9	---
120-82-1	1,2,4-Trichlorobenzene	5.9	---
118-74-1	Hexachlorobenzene	5.9	---
87-68-3	Hexachlorobutadiene	5.9	---
85-68-7	Butylbenzylphthalate	15	---
95-48-7	2-Methylphenol	5.9	---
105-67-9	2,4-Dimethylphenol	5.9	---
86-30-6	N-Nitrosodiphenylamine	5.9	---
100-51-6	Benzyl Alcohol	30	---
87-86-5	Pentachlorophenol	30	---
95-50-1	1,2-Dichlorobenzene	5.9	---

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

2-Fluorobiphenyl	76.0%	d5-Phenol	82.4%
2-Fluorophenol	79.7%	d4-2-Chlorophenol	82.9%
d4-1,2-Dichlorobenzene	64.8%	d5-Nitrobenzene	81.2%
2,4,6-Tribromophenol	61.1%	d14-p-Terphenyl	86.4%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt2.i/20081007.b/ns52ems.d
Lab Smp Id: NS52EMS Client Smp ID: EB-SE04-A-08100 MS
Inj Date : 07-OCT-2008 18:58
Operator : VTS Inst ID: nt2.i
Smp Info : NS52EMS
Misc Info : 08-26290
Comment :
Method : /chem3/nt2.i/20081007.b/SIMABN.m
Meth Date : 07-Oct-2008 15:24 van Quant Type: ISTD
Cal Date : 11-SEP-2008 14:21 Cal File: ic091105.d
Als bottle: 6 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: wind.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	23.30000	Weight of sample extracted (g)
M	27.50000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)	
$	1 2-Fluorophenol	112	4.799	4.768	(0.752)	306331	2.98554	176.7	
$	2 Phenol-d5	99	6.076	6.068	(0.952)	430643	3.08510	182.6	
$	5 2-Chlorophenol-d4	132	6.146	6.146	(0.963)	321804	3.11150	184.2	
	7 1,3-Dichlorobenzene	146	6.311	6.329	(0.989)	239459	1.77772	105.2	
*	8 1,4-Dichlorobenzene-d4	152	6.380	6.398	(1.000)	154785	2.00000		
	9 1,4-Dichlorobenzene	146	6.398	6.415	(1.003)	206705	1.78289	105.5	
$	10 1,2-Dichlorobenzene-d4	152	6.623	6.640	(1.038)	111413	1.62030	95.92	
	11 Benzyl alcohol	79	Compound Not Detected.			1502	.042	2.545	CMDL
	12 1,2-Dichlorobenzene	146	6.640	6.657	(1.041)	191116	1.72387	102.0	
	13 2-Methylphenol	108	6.865	6.849	(1.076)	193137	1.56856	92.86	
	16 N-Nitroso-di-n-propylamine	70	7.004	7.019	(1.098)	232049	2.25552	133.5	
$	18 Nitrobenzene-d5	82	7.142	7.157	(0.888)	327595	2.03477	120.5	
	22 2,4-Dimethylphenol	107	7.778	7.720	(0.967)	223118	1.74189	103.1	
	26 1,2,4-Trichlorobenzene	180	8.009	8.028	(0.995)	165512	1.83254	108.5	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	27 Naphthalene-d8	136	8.047	8.066	(1.000)	513583	2.00000	
	30 Hexachlorobutadiene	225	8.354	8.374	(1.038)	97791	1.71717	101.7
$	36 2-Fluorobiphenyl	172	9.554	9.572	(0.917)	390357	1.90488	112.8
	39 Dimethylphthalate	163	10.177	10.177	(0.977)	508048	2.37084	140.3
*	42 Acenaphthene-d10	162	10.419	10.437	(1.000)	259151	2.00000	
	54 N-Nitrosodiphenylamine	169	11.347	11.359	(0.916)	234340	2.37962	140.9
$	55 2,4,6-Tribromophenol	330	11.509	11.497	(0.929)	54316	2.29275	135.7
	57 Hexachlorobenzene	284	11.998	11.998	(0.969)	115877	2.14271	126.8
	58 Pentachlorophenol	266	12.367	12.245	(0.999)	65242	2.20369	130.5(M)
*	59 Phenanthrene-d10	188	12.383	12.383	(1.000)	379515	2.00000	
$	66 Terphenyl-d14	244	14.584	14.585	(0.915)	275337	2.15572	127.6
	67 Butylbenzylphthalate	149	15.324	15.325	(0.961)	297785	2.00114	118.5
*	69 Chrysene-d12	240	15.944	15.944	(1.000)	322830	2.00000	
*	77 Perylene-d12	264	17.729	17.729	(1.000)	361376	2.00000	
	79 Dibenzo(a,h)anthracene	278	18.883	18.883	(1.065)	372330	1.49539	88.52
	90 N-Nitrosodimethylamine	74	2.894	2.484	(0.454)	120454	1.63833	96.99(M)

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ns52ems.d
Lab Smp Id: NS52EMS
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20081007.b/SIMABN.m
Misc Info: 08-26290

Calibration Date: 07-OCT-2008
Calibration Time: 13:27
Client Smp ID: EB-SE04-A-08100
Level: LOW
Sample Type: Sediment

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	135442	67721	270884	154785	14.28
27 Naphthalene-d8	453834	226917	907668	513583	13.17
42 Acenaphthene-d10	220455	110228	440910	259151	17.55
59 Phenanthrene-d10	323435	161718	646870	379515	17.34
69 Chrysene-d12	272204	136102	544408	322830	18.60
77 Perylene-d12	284259	142130	568518	361376	27.13

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.40	5.90	6.90	6.38	-0.27
27 Naphthalene-d8	8.07	7.57	8.57	8.05	-0.24
42 Acenaphthene-d10	10.44	9.94	10.94	10.42	-0.17
59 Phenanthrene-d10	12.38	11.88	12.88	12.38	0.00
69 Chrysene-d12	15.94	15.44	16.44	15.94	0.00
77 Perylene-d12	17.73	17.23	18.23	17.73	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: NS52EMS
Level: LOW
Data Type: MS DATA
SpikeList File: wind.spk
Sublist File: wind.sub
Method File: /chem3/nt2.i/20081007.b/SIMABN.m
Misc Info: 08-26290

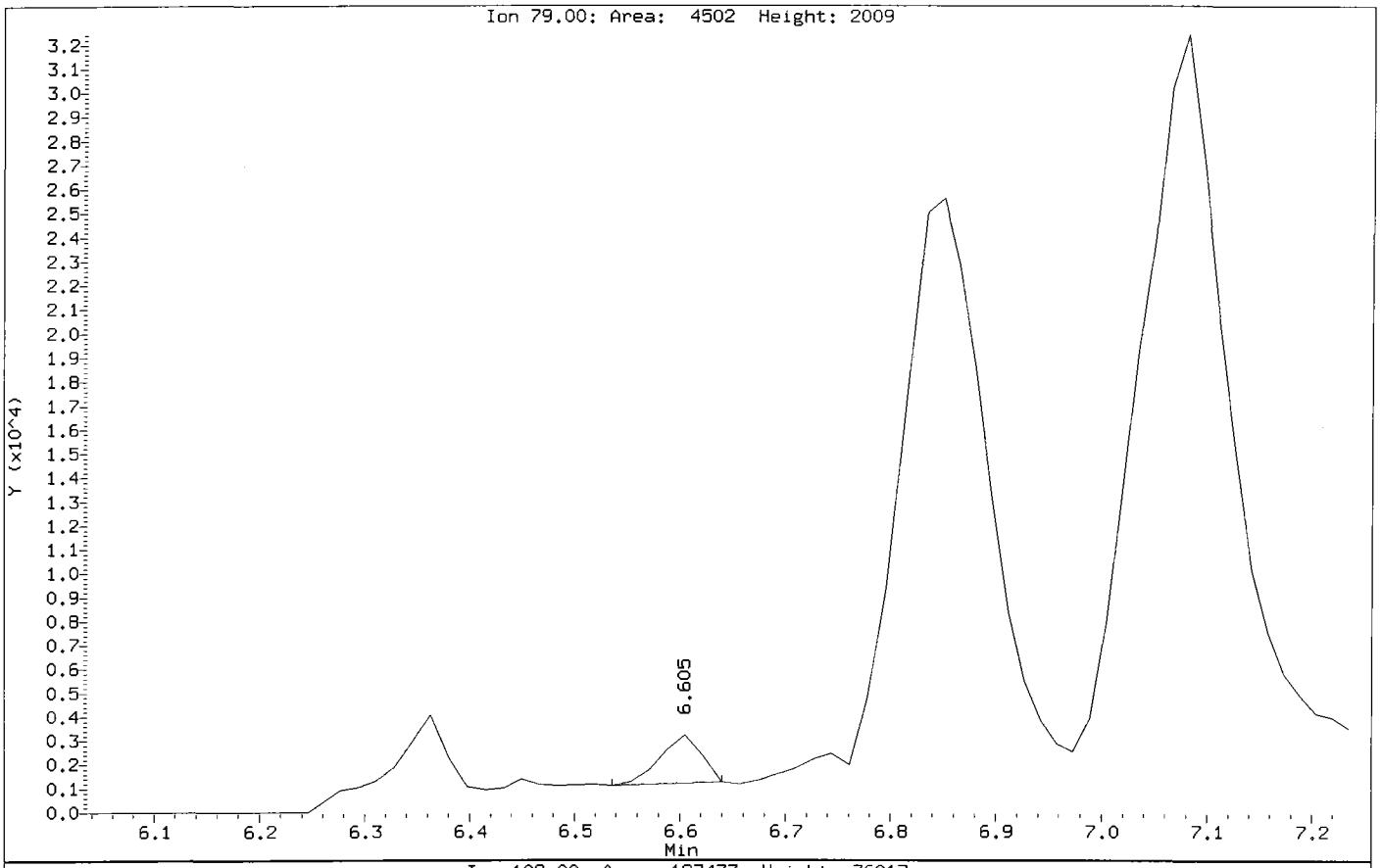
Client SDG: NS52
Fraction: SV
Client Smp ID: EB-SE04-A-08100 MS
Operator: VTS
SampleType: MS
Quant Type: ISTD

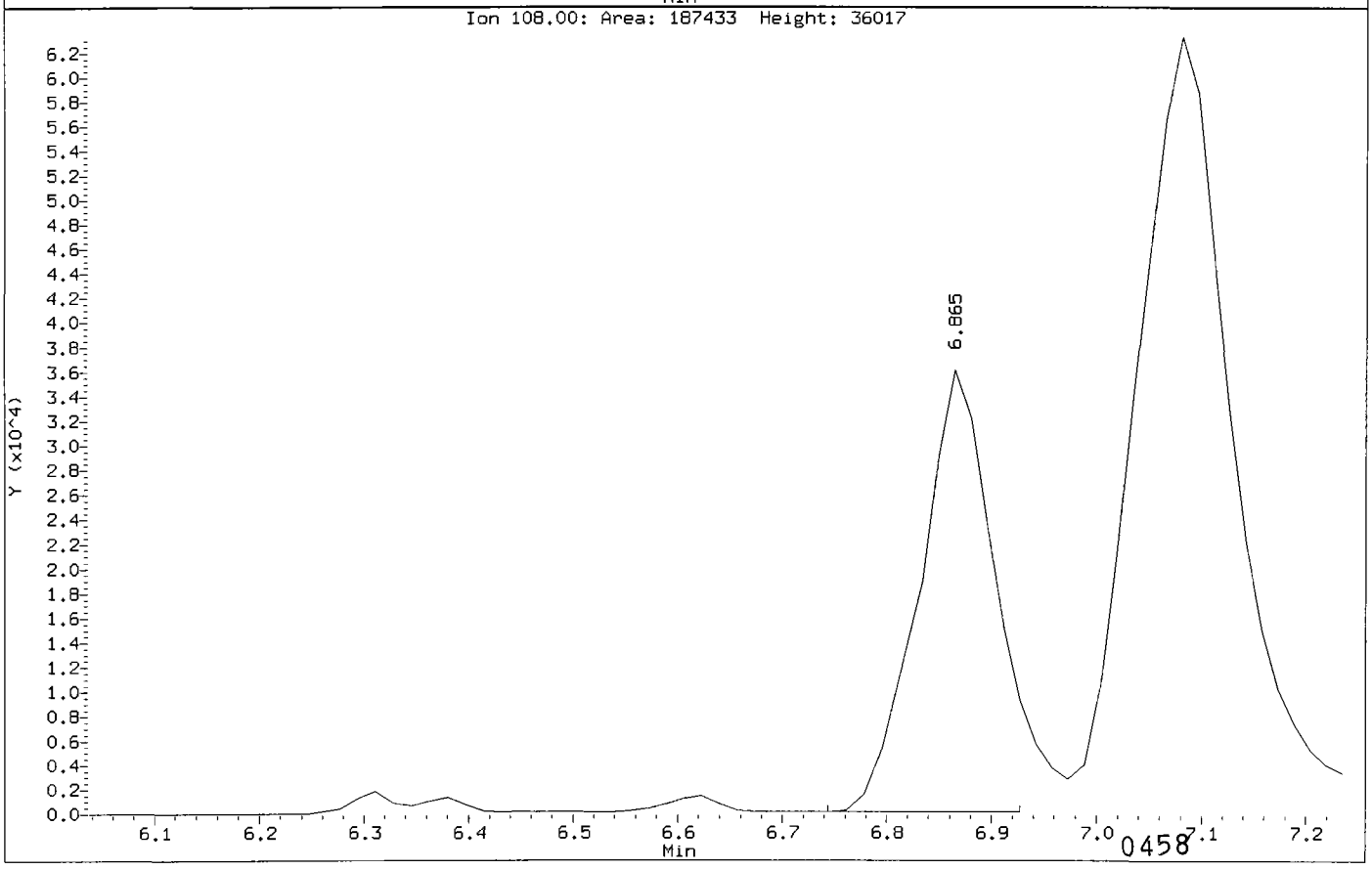
	SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
7	1,3-Dichlorobenzen	148.0	105.2	71.11	30-160
9	1,4-Dichlorobenzen	148.0	105.5	71.32	30-160
11	Benzyl alcohol	296.0	0.000	*	30-160
12	1,2-Dichlorobenzen	148.0	102.0	68.95	30-160
13	2-Methylphenol	148.0	92.86	62.74	30-160
16	N-Nitroso-di-n-pro	148.0	133.5	90.22	30-160
22	2,4-Dimethylphenol	148.0	103.1	69.68	30-160
26	1,2,4-Trichloroben	148.0	108.5	73.30	30-160
30	Hexachlorobutadien	148.0	101.7	68.69	30-160
54	N-Nitrosodiphenyla	148.0	140.9	95.18	30-160
57	Hexachlorobenzene	148.0	126.8	85.71	30-160
58	Pentachlorophenol	148.0	130.5	88.15	30-160
67	Butylbenzylphthala	148.0	118.5	80.05	30-160
79	Dibenzo(a,h)anthra	148.0	88.52	59.82	30-160
90	N-Nitrosodimethyla	148.0	96.99	65.53	30-160

	SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1	2-Fluorophenol	222.0	176.7	79.61	30-160
$ 2	Phenol-d5	222.0	182.6	82.27	30-160
$ 5	2-Chlorophenol-d4	222.0	184.2	82.97	30-160
$ 10	1,2-Dichlorobenzen	148.0	95.92	64.81	30-160
$ 18	Nitrobenzene-d5	148.0	120.5	81.39	30-160
$ 36	2-Fluorobiphenyl	148.0	112.8	76.20	30-160
$ 55	2,4,6-Tribromophen	222.0	135.7	61.14	30-160
$ 66	Terphenyl-d14	148.0	127.6	86.23	30-160

Data File: /chem3/nt2.i/20081007.b/ns52ems.d
Injection Date: 07-OCT-2008 18:58
Instrument: nt2.i
Client Sample ID: EB-SE04-A-08100 MS

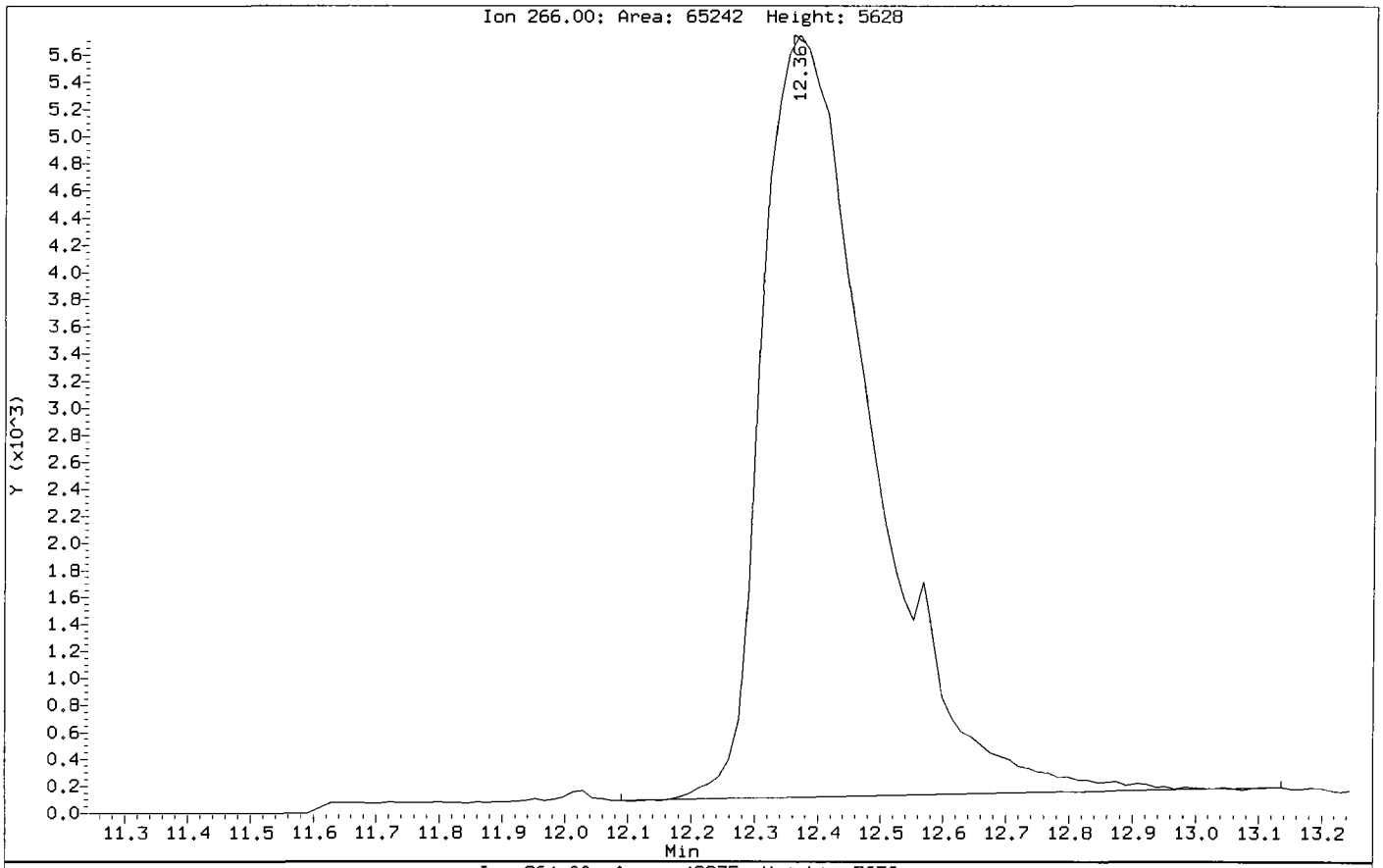
Compound: Benzyl alcohol
CAS Number: 100-51-6

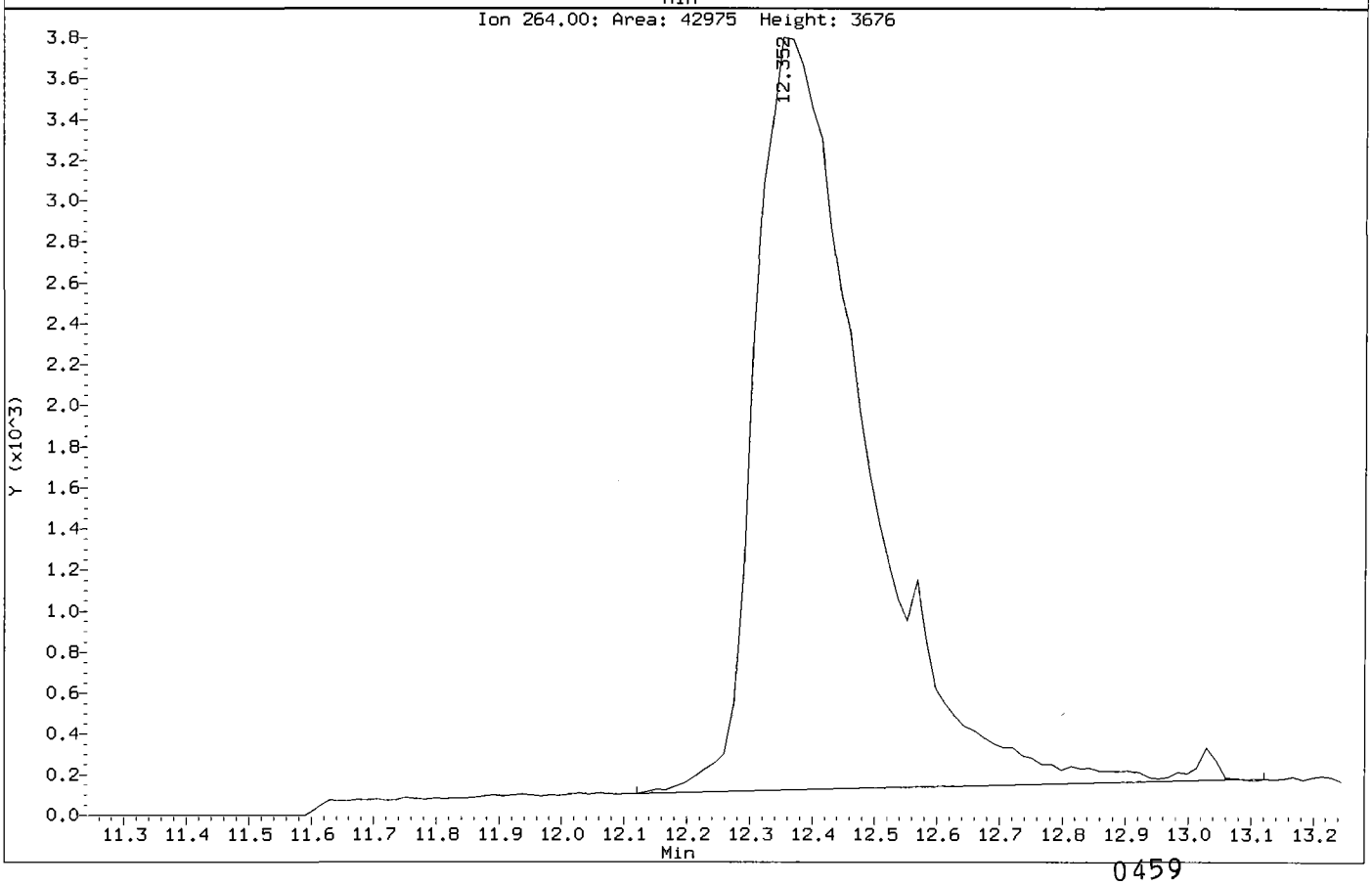




Data File: /chem3/nt2.i/20081007.b/ns52ems.d
Injection Date: 07-OCT-2008 18:58
Instrument: nt2.i
Client Sample ID: EB-SE04-A-08100 MS

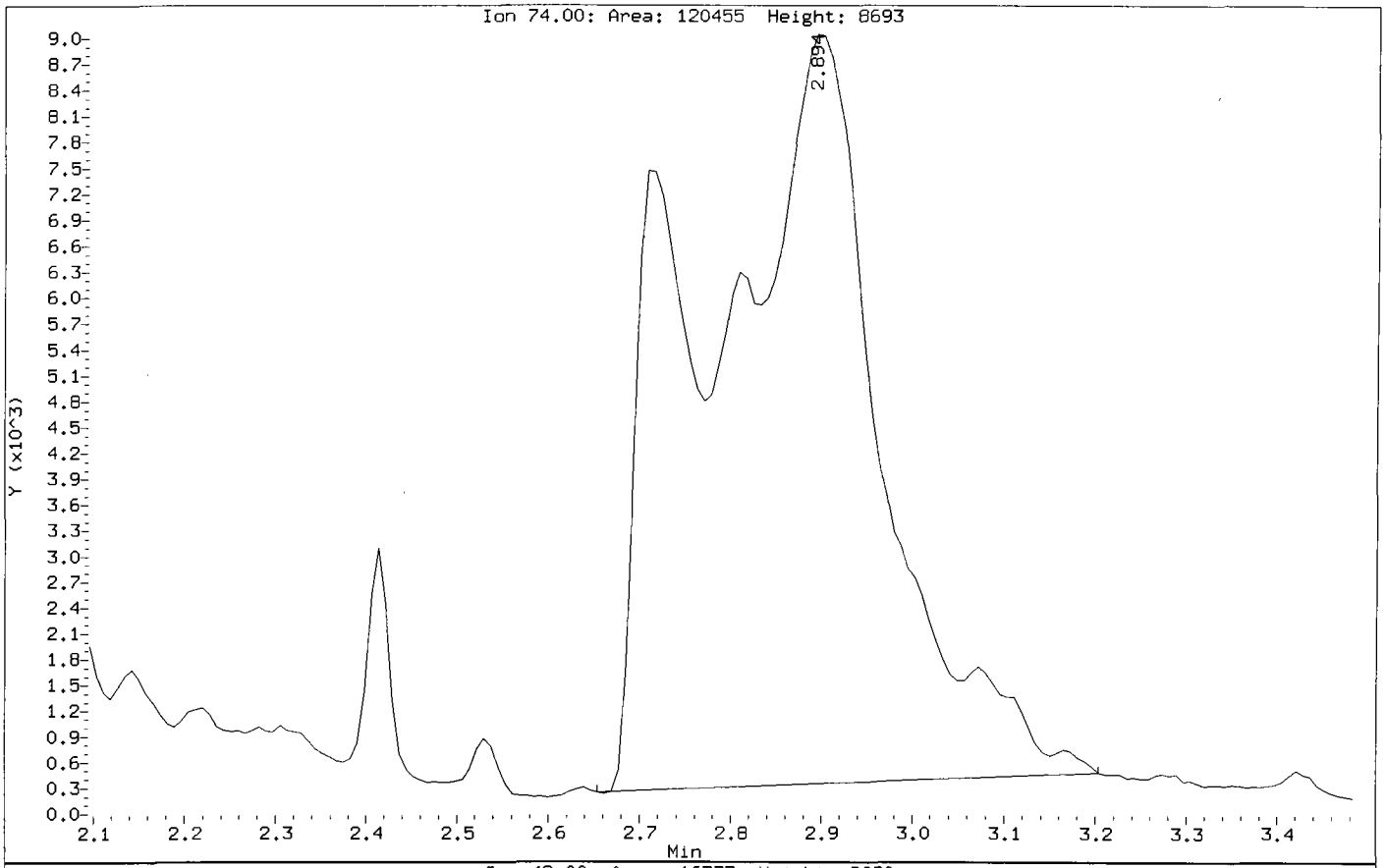
Compound: Pentachlorophenol
CAS Number: 87-86-5

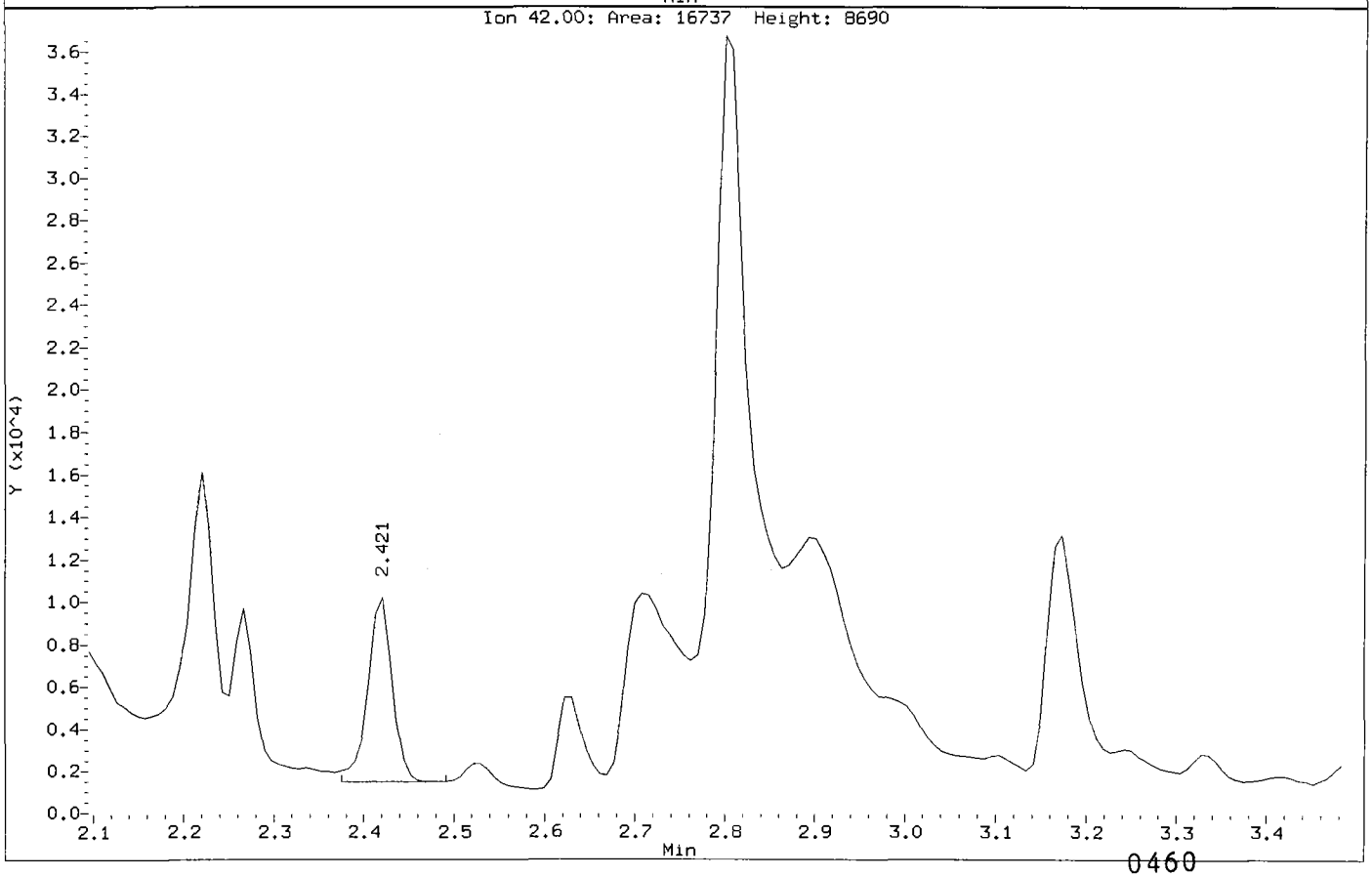




Data File: /chem3/nt2.i/20081007.b/ns52ems.d
Injection Date: 07-OCT-2008 18:58
Instrument: nt2.i
Client Sample ID: EB-SE04-A-08100 MS

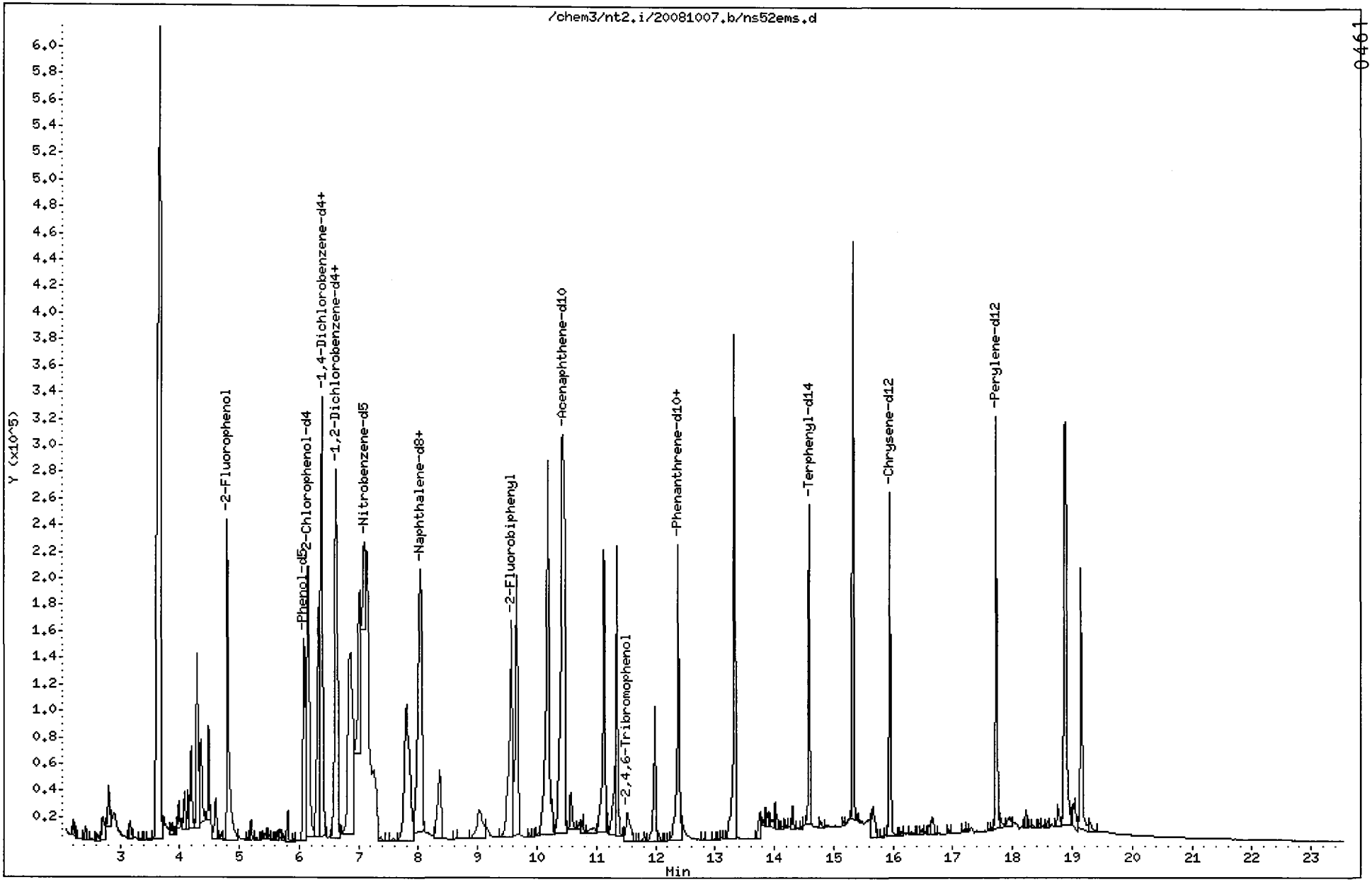
Compound: N-Nitrosodimethylamine
CAS Number:





Data File: /chem3/nt2.i/20081007.b/ns52ems.d
Date : 07-OCT-2008 18:58
Client ID: EB-SE04-A-08100 MS
Sample Info: NS52EMS
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i
Operator: VTS
Column diameter: 0.32



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by Selected Ion Monitoring GC/MS **Sample ID: EB-SE04-A-081003**
Page 1 of 1 **MATRIX SPIKE DUPLICATE**

Lab Sample ID: NS52E
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/06/08
Date Analyzed: 10/07/08 19:31
Instrument/Analyst: NT2/VTS
GPC Cleanup: No
Silica Gel Cleanup: No
Alumina Cleanup: No

Sample Amount: 17.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Percent Moisture: 27.5%

CAS Number	Analyte	RL	Result
53-70-3	Dibenz(a,h)anthracene	5.8	---
106-46-7	1,4-Dichlorobenzene	5.8	---
120-82-1	1,2,4-Trichlorobenzene	5.8	---
118-74-1	Hexachlorobenzene	5.8	---
87-68-3	Hexachlorobutadiene	5.8	---
85-68-7	Butylbenzylphthalate	14	---
95-48-7	2-Methylphenol	5.8	---
105-67-9	2,4-Dimethylphenol	5.8	---
86-30-6	N-Nitrosodiphenylamine	5.8	---
100-51-6	Benzyl Alcohol	29	---
87-86-5	Pentachlorophenol	29	---
95-50-1	1,2-Dichlorobenzene	5.8	---

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

2-Fluorobiphenyl	79.2%	d5-Phenol	92.8%
2-Fluorophenol	80.3%	d4-2-Chlorophenol	81.6%
d4-1,2-Dichlorobenzene	65.2%	d5-Nitrobenzene	83.2%
2,4,6-Tribromophenol	57.9%	d14-p-Terphenyl	90.8%

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt2.i/20081007.b/ns52emsd.d
Lab Smp Id: NS52EMSD Client Smp ID: EB-SE04-A-08100 MSD
Inj Date : 07-OCT-2008 19:31
Operator : VTS Inst ID: nt2.i
Smp Info : NS52EMSD
Misc Info : 08-26290
Comment :
Method : /chem3/nt2.i/20081007.b/SIMABN.m
Meth Date : 07-Oct-2008 15:24 van Quant Type: ISTD
Cal Date : 11-SEP-2008 14:21 Cal File: ic091105.d
Als bottle: 7 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: wind.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	23.90000	Weight of sample extracted (g)
M	27.50000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/kg)	
$ 1	2-Fluorophenol	112	4.814	4.768	(0.755)	308010	3.01140	173.8	
$ 2	Phenol-d5	99	6.084	6.068	(0.954)	483661	3.47587	200.6(M)	
$ 5	2-Chlorophenol-d4	132	6.154	6.146	(0.964)	315623	3.06139	176.7	
7	1,3-Dichlorobenzene	146	6.328	6.329	(0.992)	247122	1.84041	106.2	
* 8	1,4-Dichlorobenzene-d4	152	6.380	6.398	(1.000)	154297	2.00000		
9	1,4-Dichlorobenzene	146	6.397	6.415	(1.003)	214449	1.85554	107.1	
$ 10	1,2-Dichlorobenzene-d4	152	6.622	6.640	(1.038)	112019	1.63426	94.32	
11	Benzyl alcohol	79	Compound Not Detected.			4376	.04193	2.42	<MDL
12	1,2-Dichlorobenzene	146	6.640	6.657	(1.041)	203426	1.84071	106.2	
13	2-Methylphenol	108	6.865	6.849	(1.076)	202994	1.65383	95.45	
16	N-Nitroso-di-n-propylamine	70	7.004	7.019	(1.098)	222273	2.16733	125.1	
$ 18	Nitrobenzene-d5	82	7.142	7.157	(0.888)	330232	2.07778	119.9	
22	2,4-Dimethylphenol	107	7.816	7.720	(0.971)	202135	1.59856	92.26	
26	1,2,4-Trichlorobenzene	180	8.008	8.028	(0.995)	173199	1.94254	112.1	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	27 Naphthalene-d8	136	8.047	8.066	(1.000)	507000	2.00000	
	30 Hexachlorobutadiene	225	8.373	8.374	(1.041)	104526	1.85927	107.3
$	36 2-Fluorobiphenyl	172	9.554	9.572	(0.917)	402915	1.98193	114.4
	39 Dimethylphthalate	163	10.177	10.177	(0.977)	554558	2.60863	150.5
*	42 Acenaphthene-d10	162	10.419	10.437	(1.000)	257090	2.00000	
	54 N-Nitrosodiphenylamine	169	11.347	11.359	(0.916)	227821	2.33249	134.6
$	55 2,4,6-Tribromophenol	330	11.521	11.497	(0.930)	51016	2.17120	125.3
	57 Hexachlorobenzene	284	11.998	11.998	(0.969)	120815	2.25243	130.0
	58 Pentachlorophenol	266	12.383	12.245	(1.000)	67556	2.29922	132.7(M)
*	59 Phenanthrene-d10	188	12.383	12.383	(1.000)	376413	2.00000	
$	66 Terphenyl-d14	244	14.586	14.585	(0.915)	297669	2.26516	130.7
	67 Butylbenzylphthalate	149	15.327	15.325	(0.961)	326075	2.12976	122.9
*	69 Chrysene-d12	240	15.944	15.944	(1.000)	332152	2.00000	
*	77 Perylene-d12	264	17.729	17.729	(1.000)	363396	2.00000	
	79 Dibenzo(a,h)anthracene	278	18.899	18.883	(1.066)	383675	1.53239	88.44
	90 N-Nitrosodimethylamine	74	2.715	2.484	(0.426)	131790	1.79819	103.8(M)

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ns52emsd.d
Lab Smp Id: NS52EMSD
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20081007.b/SIMABN.m
Misc Info: 08-26290

Calibration Date: 07-OCT-2008
Calibration Time: 13:27
Client Smp ID: EB-SE04-A-08100
Level: LOW
Sample Type: Sediment

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	135442	67721	270884	154297	13.92
27 Naphthalene-d8	453834	226917	907668	507000	11.71
42 Acenaphthene-d10	220455	110228	440910	257090	16.62
59 Phenanthrene-d10	323435	161718	646870	376413	16.38
69 Chrysene-d12	272204	136102	544408	332152	22.02
77 Perylene-d12	284259	142130	568518	363396	27.84

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.40	5.90	6.90	6.38	-0.28
27 Naphthalene-d8	8.07	7.57	8.57	8.05	-0.24
42 Acenaphthene-d10	10.44	9.94	10.94	10.42	-0.17
59 Phenanthrene-d10	12.38	11.88	12.88	12.38	0.00
69 Chrysene-d12	15.94	15.44	16.44	15.94	0.00
77 Perylene-d12	17.73	17.23	18.23	17.73	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: NS52EMSD
Level: LOW
Data Type: MS DATA
SpikeList File: wind.spk
Sublist File: wind.sub
Method File: /chem3/nt2.i/20081007.b/SIMABN.m
Misc Info: 08-26290

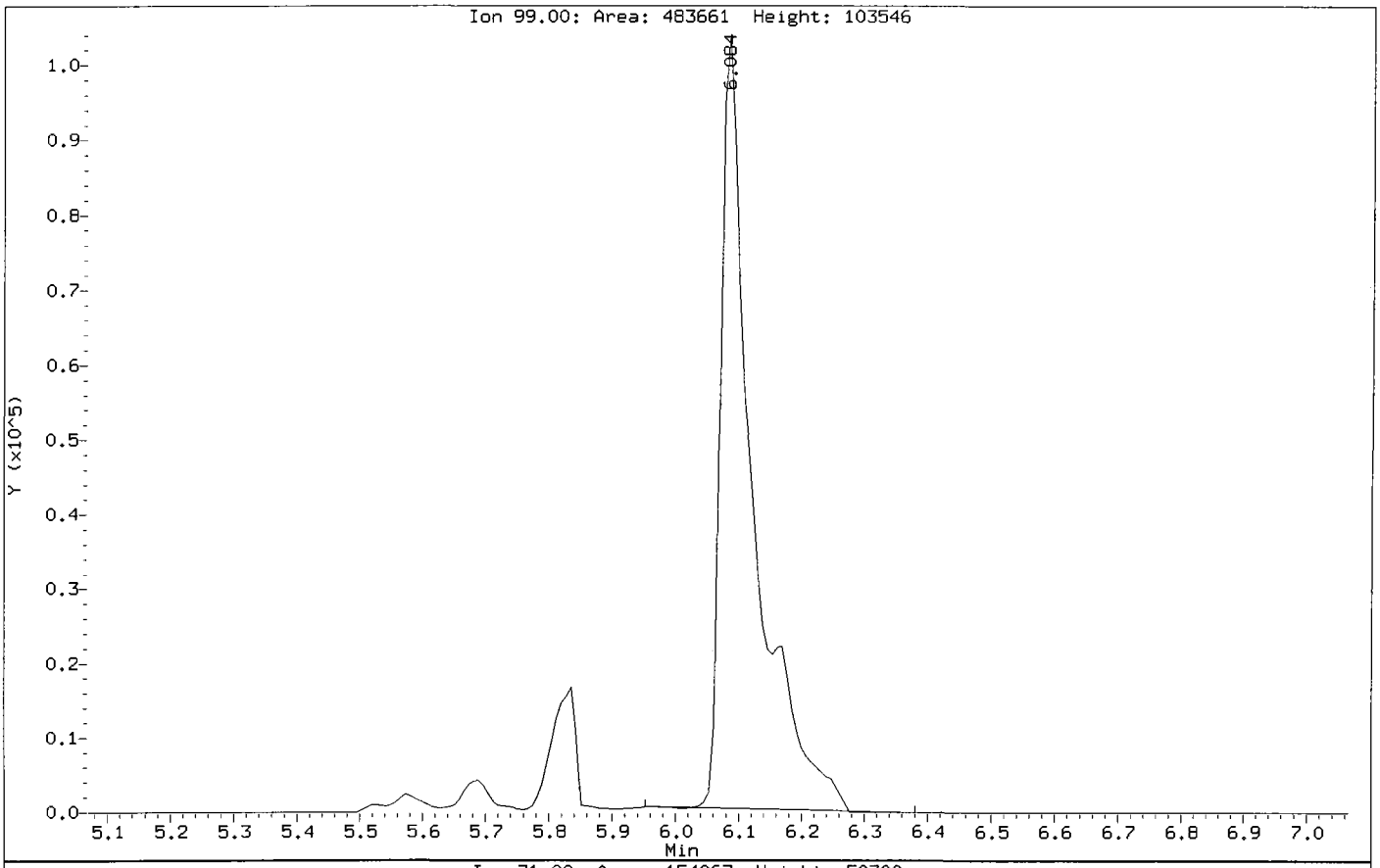
Client SDG: NS52
Fraction: SV
Client Smp ID: EB-SE04-A-08100 MSD
Operator: VTS
SampleType: MSD
Quant Type: ISTD

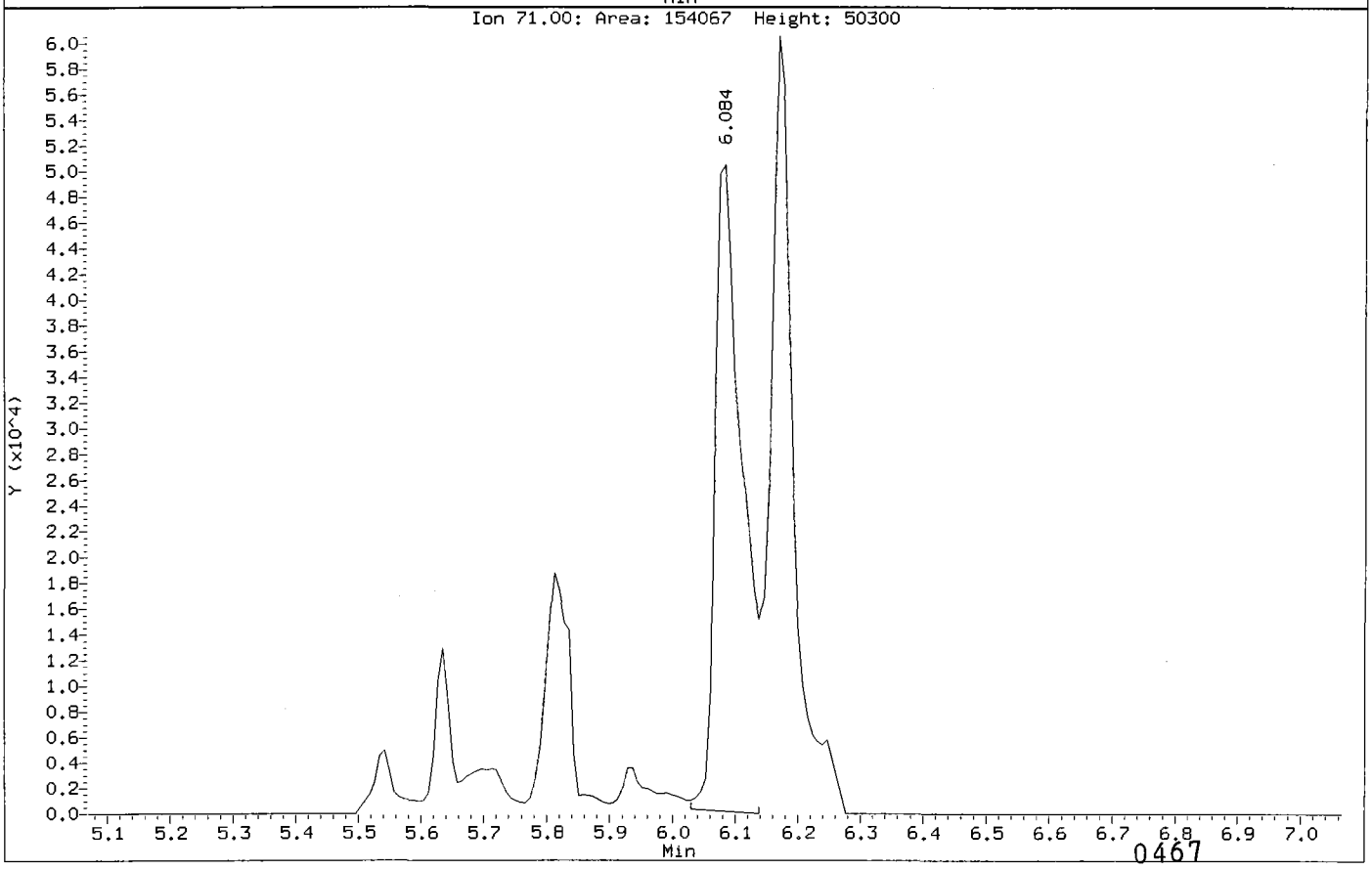
	SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
7	1,3-Dichlorobenzen	144.3	106.2	73.62	30-160
9	1,4-Dichlorobenzen	144.3	107.1	74.22	30-160
11	Benzyl alcohol	288.6	0.000	*	30-160
12	1,2-Dichlorobenzen	144.3	106.2	73.63	30-160
13	2-Methylphenol	144.3	95.45	66.15	30-160
16	N-Nitroso-di-n-pro	144.3	125.1	86.69	30-160
22	2,4-Dimethylphenol	144.3	92.26	63.94	30-160
26	1,2,4-Trichloroben	144.3	112.1	77.70	30-160
30	Hexachlorobutadien	144.3	107.3	74.37	30-160
54	N-Nitrosodiphenyla	144.3	134.6	93.30	30-160
57	Hexachlorobenzene	144.3	130.0	90.10	30-160
58	Pentachlorophenol	144.3	132.7	91.97	30-160
67	Butylbenzylphthala	144.3	122.9	85.19	30-160
79	Dibenzo(a,h)anthra	144.3	88.44	61.30	30-160
90	N-Nitrosodimethyla	144.3	103.8	71.93	30-160

	SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1	2-Fluorophenol	216.4	173.8	80.30	30-160
$ 2	Phenol-d5	216.4	200.6	92.69	30-160
$ 5	2-Chlorophenol-d4	216.4	176.7	81.64	30-160
$ 10	1,2-Dichlorobenzen	144.3	94.32	65.37	30-160
$ 18	Nitrobenzene-d5	144.3	119.9	83.11	30-160
$ 36	2-Fluorobiphenyl	144.3	114.4	79.28	30-160
$ 55	2,4,6-Tribromophen	216.4	125.3	57.90	30-160
$ 66	Terphenyl-d14	144.3	130.7	90.61	30-160

Data File: /chem3/nt2.i/20081007.b/ns52emsd.d
Injection Date: 07-OCT-2008 19:31
Instrument: nt2.i
Client Sample ID: EB-SE04-A-08100 MSD

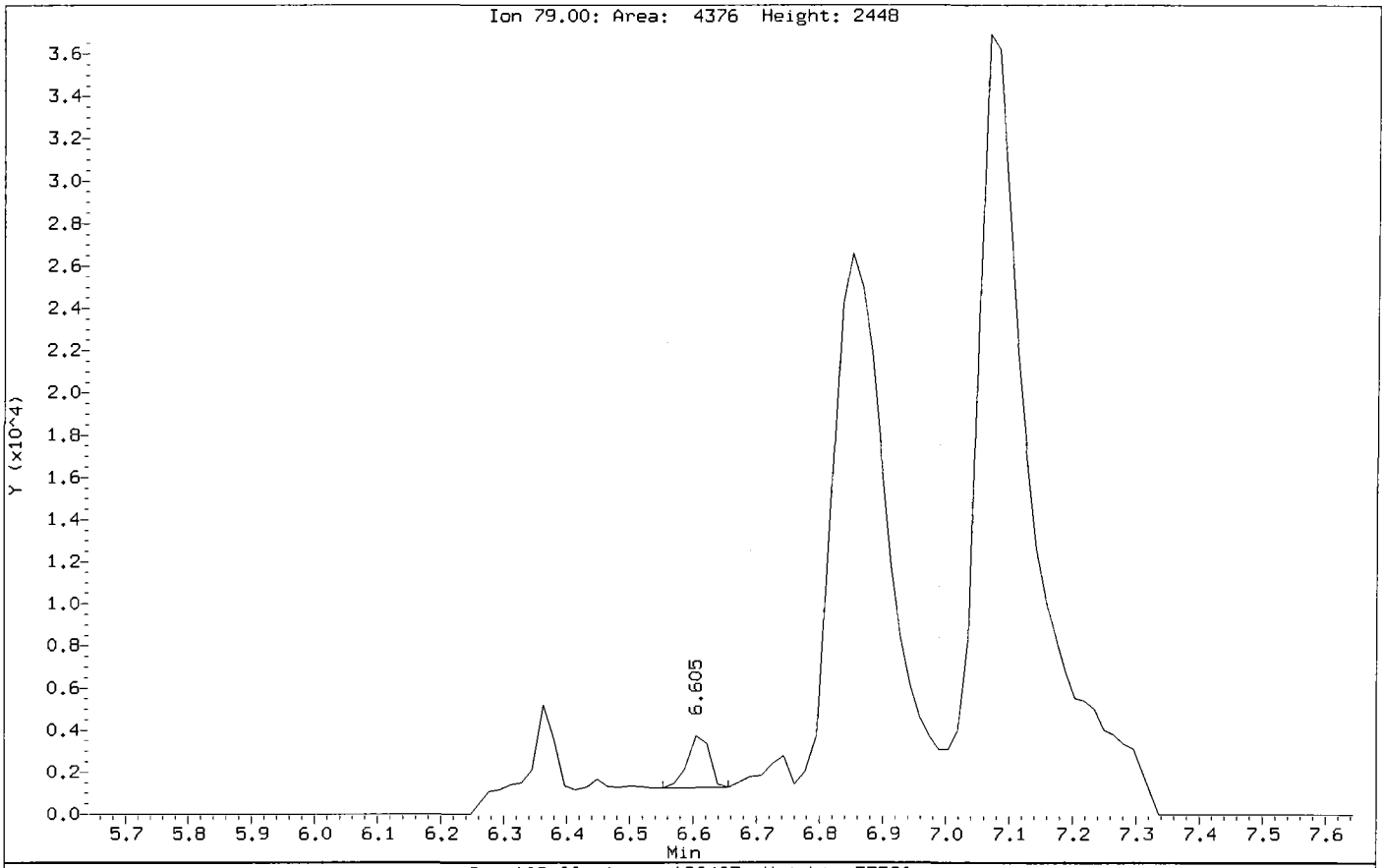
Compound: Phenol-d5
CAS Number:

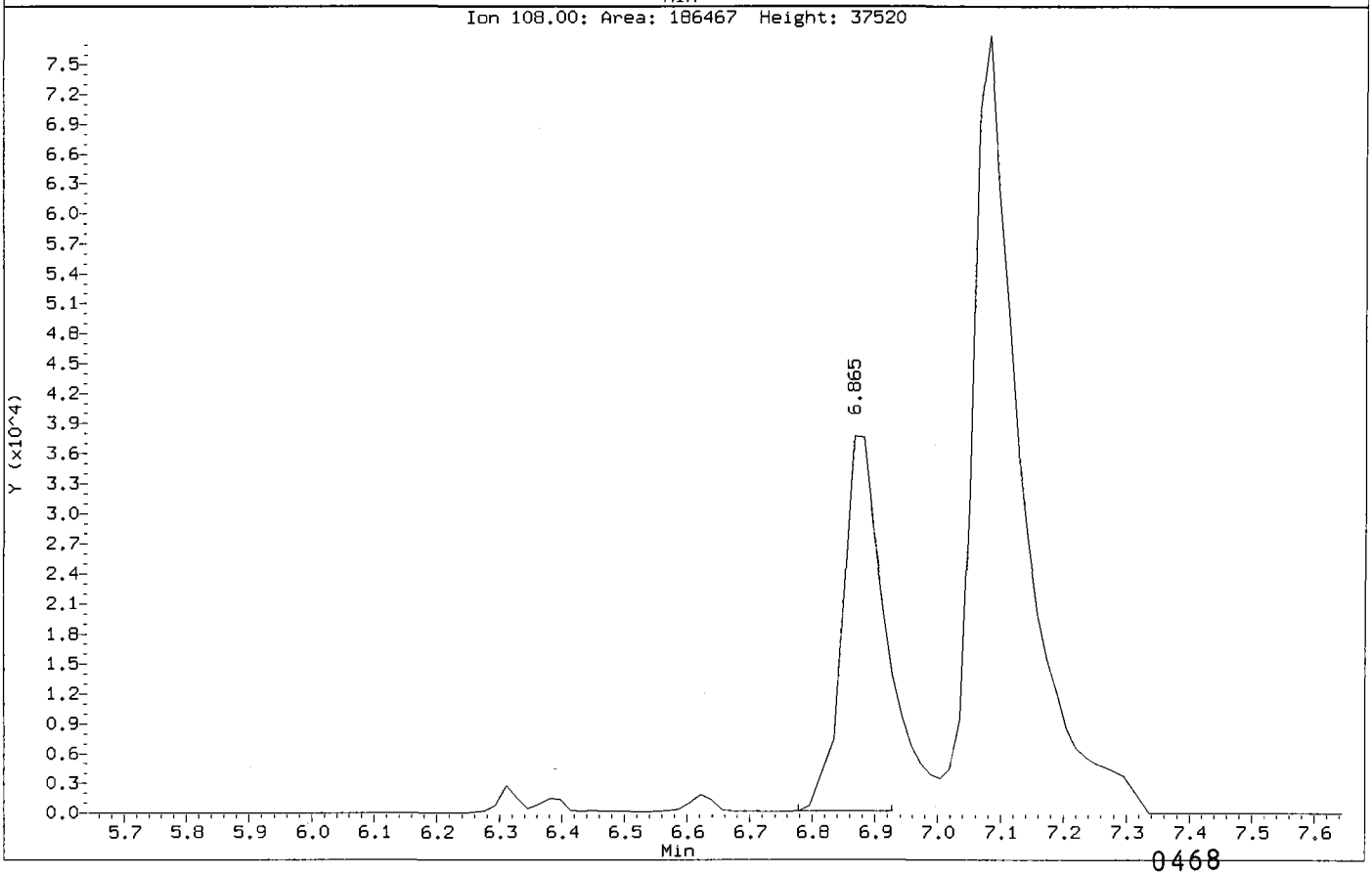




Data File: /chem3/nt2.i/20081007.b/ns52emsd.d
Injection Date: 07-OCT-2008 19:31
Instrument: nt2.i
Client Sample ID: EB-SE04-A-08100 MSD

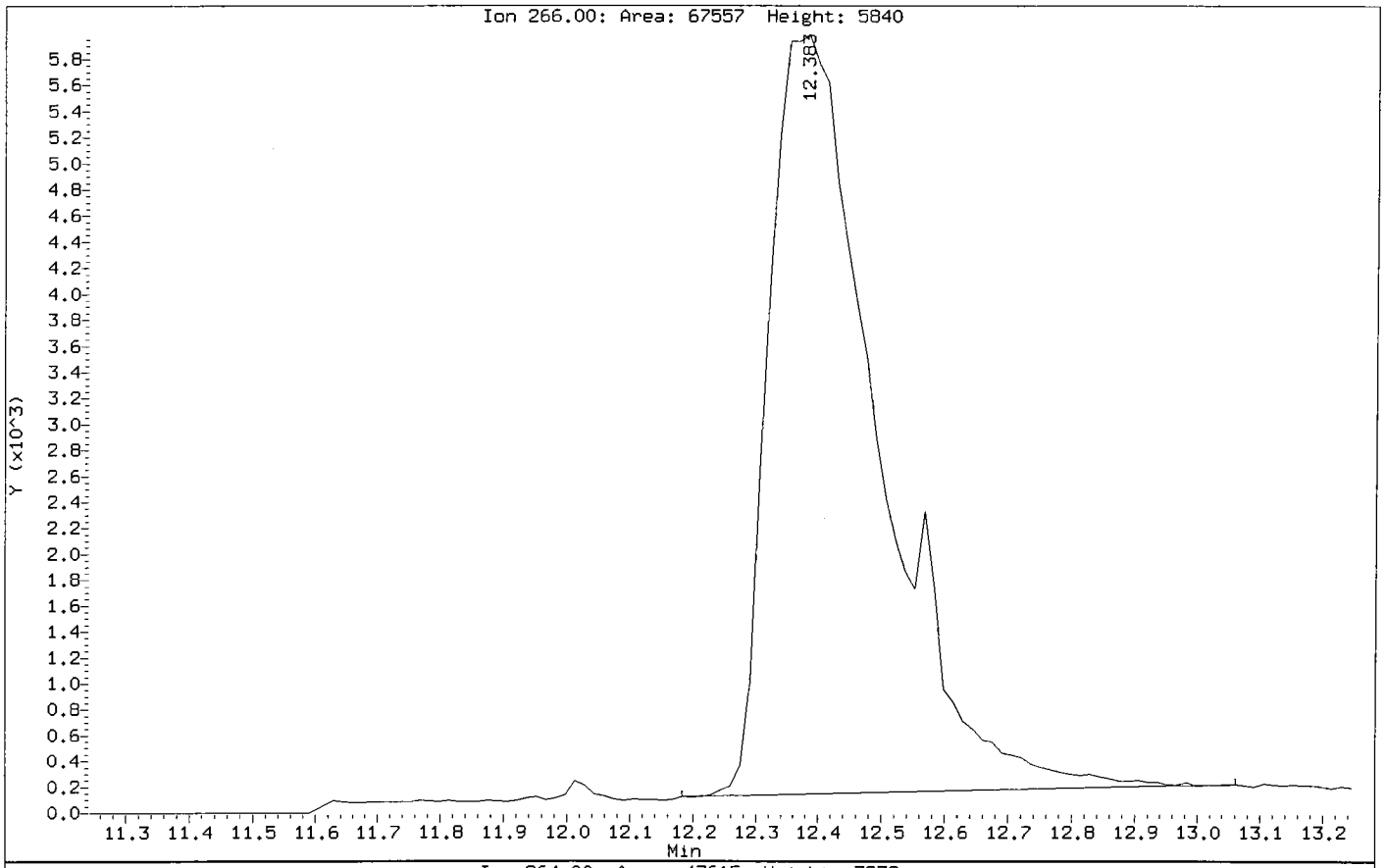
Compound: Benzyl alcohol
CAS Number: 100-51-6

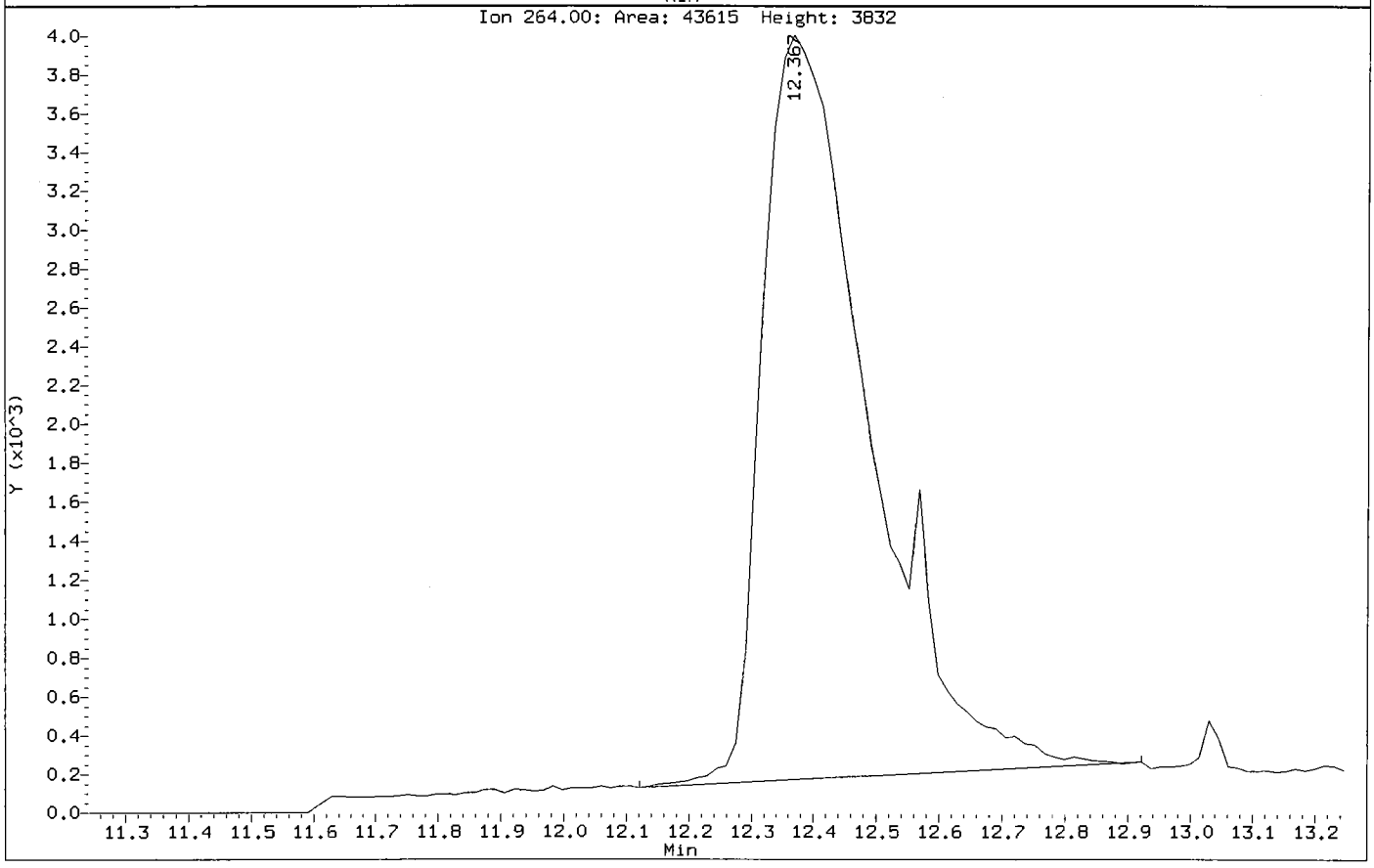




Data File: /chem3/nt2.i/20081007.b/ns52emsd.d
Injection Date: 07-OCT-2008 19:31
Instrument: nt2.i
Client Sample ID: EB-SE04-A-08100 MSD

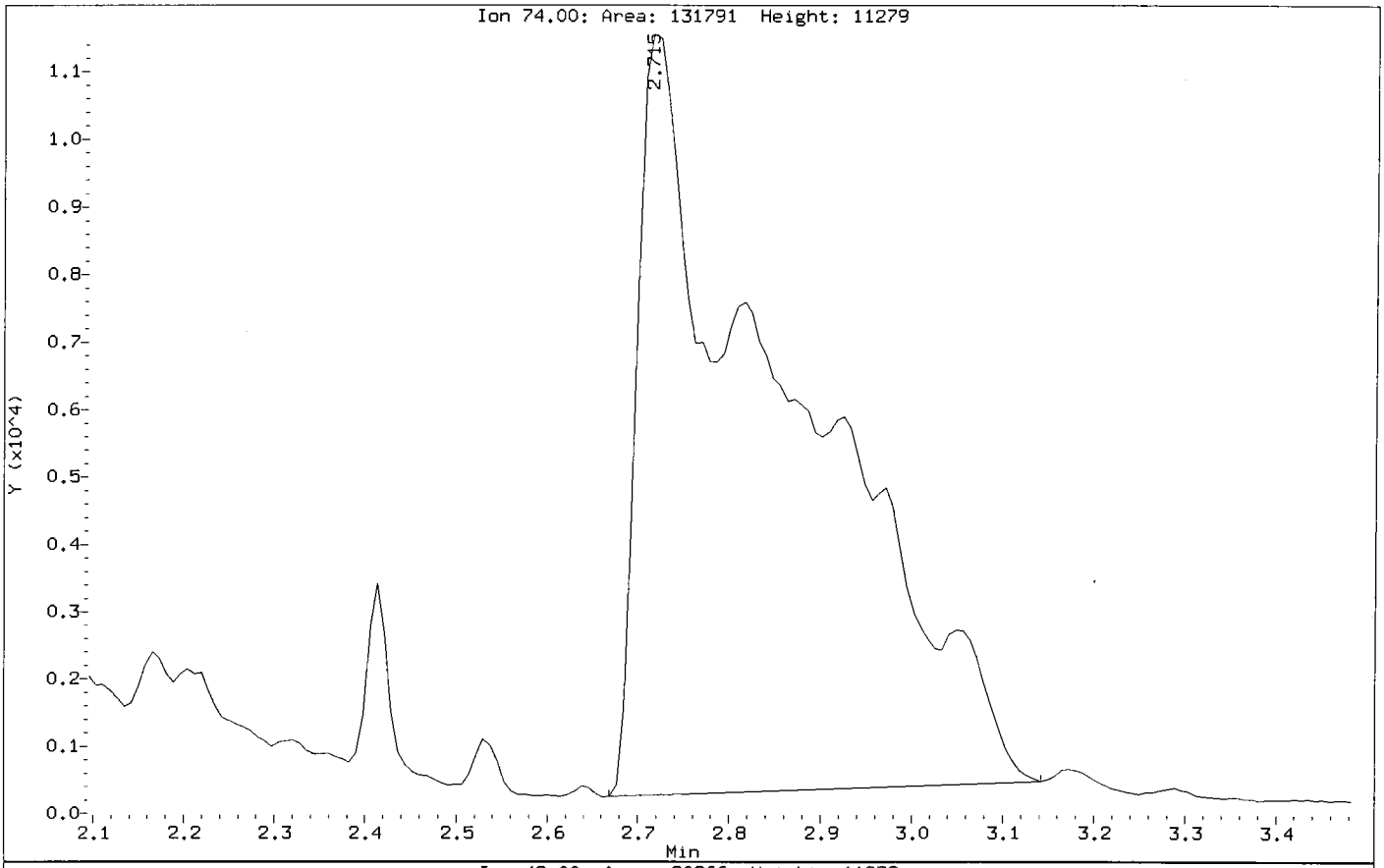
Compound: Pentachlorophenol
CAS Number: 87-86-5

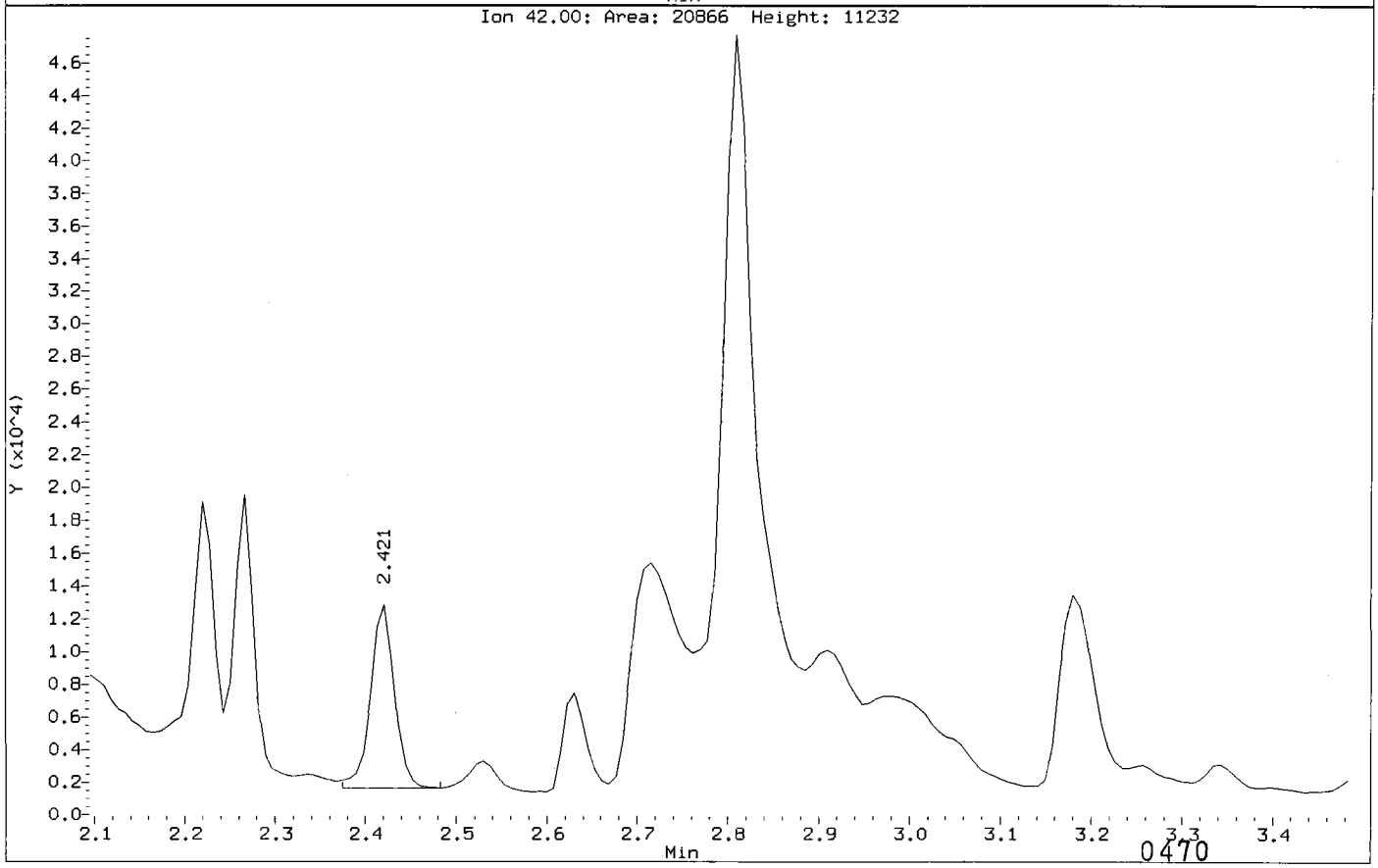




Data File: /chem3/nt2.i/20081007.b/ns52emsd.d
Injection Date: 07-OCT-2008 19:31
Instrument: nt2.i
Client Sample ID: EB-SE04-A-08100 MSD

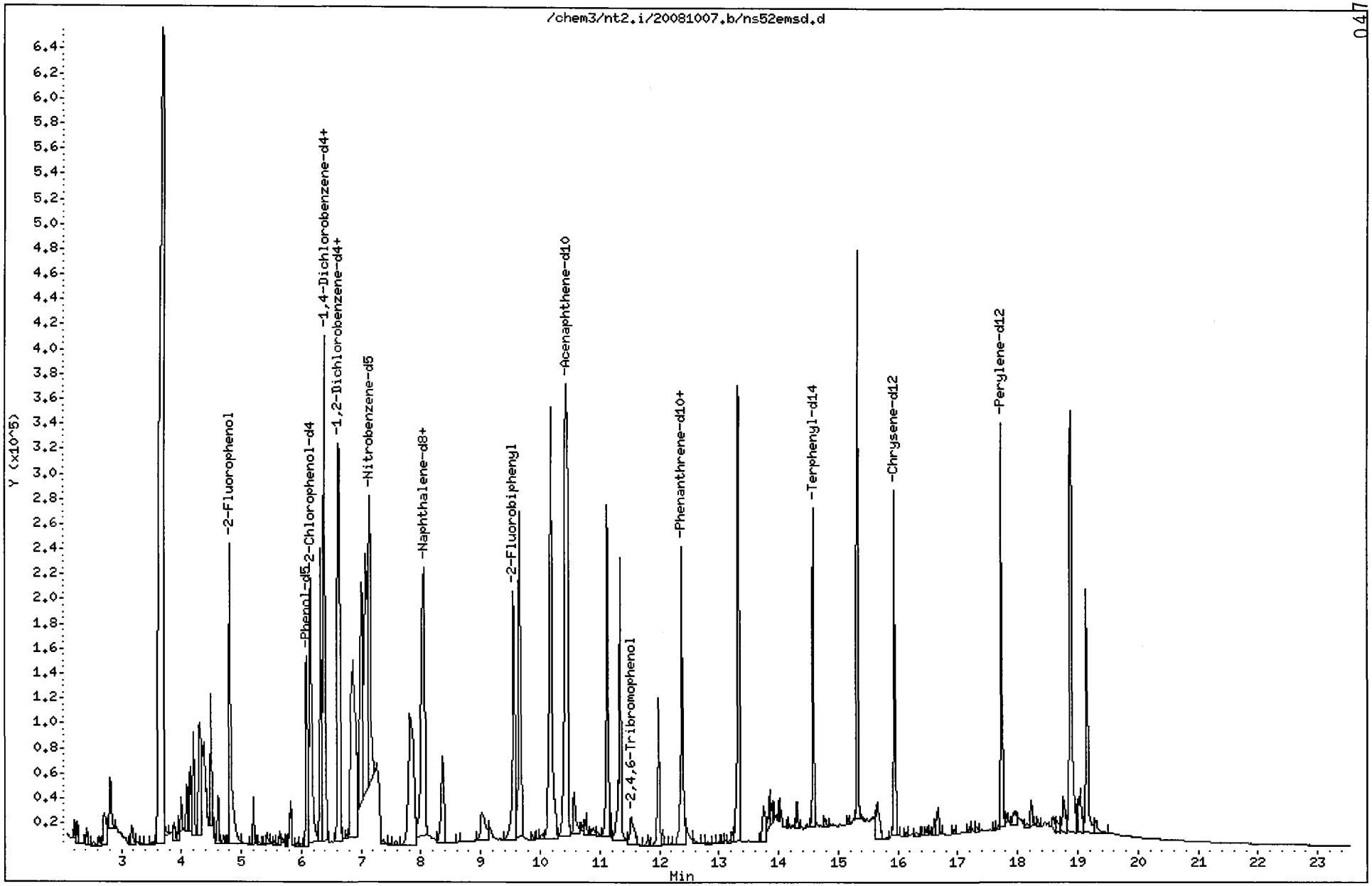
Compound: N-Nitrosodimethylamine
CAS Number:





Data File: /chem3/nt2.i/20081007.b/ns52emsd.d
Date : 07-OCT-2008 19:31
Client ID: EB-SE04-A-08100 MSD
Sample Info: NS52EMSD
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i
Operator: VTS
Column diameter: 0.32



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt2.i/20081007.b/ns52sb.d
Lab Smp Id: NS52LCSS1 Client Smp ID: NS52LCSS1
Inj Date : 07-OCT-2008 14:32
Operator : VTS Inst ID: nt2.i
Smp Info : NS52LCSS1
Misc Info : 08-26290
Comment :
Method : /chem3/nt2.i/20081007.b/SIMABN.m
Meth Date : 07-Oct-2008 15:24 van Quant Type: ISTD
Cal Date : 11-SEP-2008 14:21 Cal File: ic091105.d
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: wind.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Vt/(Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Ws	16.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	1 2-Fluorophenol	112	4.800	4.768	(0.752)	309606	3.09365	193.4
$	2 Phenol-d5	99	6.068	6.068	(0.951)	361149	2.65257	165.8
$	5 2-Chlorophenol-d4	132	6.146	6.146	(0.963)	316547	3.13795	196.1
	7 1,3-Dichlorobenzene	146	6.311	6.329	(0.989)	235624	1.79341	112.1
*	8 1,4-Dichlorobenzene-d4	152	6.380	6.398	(1.000)	150973	2.00000	
	9 1,4-Dichlorobenzene	146	6.398	6.415	(1.003)	208398	1.84288	115.2
$	10 1,2-Dichlorobenzene-d4	152	6.623	6.640	(1.038)	110943	1.65420	103.4
	11 Benzyl alcohol	79	6.692	6.640	(1.049)	154464	1.49993	93.75 (R)
	12 1,2-Dichlorobenzene	146	6.640	6.657	(1.041)	187745	1.73622	108.5
	13 2-Methylphenol	108	6.850	6.849	(1.074)	254789	2.12152	132.6
	16 N-Nitroso-di-n-propylamine	70	7.019	7.019	(1.100)	186366	1.85722	116.1
$	18 Nitrobenzene-d5	82	7.157	7.157	(0.887)	266625	1.66996	104.4
	22 2,4-Dimethylphenol	107	7.720	7.720	(0.957)	188663	1.48525	92.83
	26 1,2,4-Trichlorobenzene	180	8.027	8.028	(0.995)	162501	1.81429	113.4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
*	27 Naphthalene-d8	136	8.066	8.066	(1.000)	509310	2.00000	
	30 Hexachlorobutadiene	225	8.373	8.374	(1.038)	96780	1.71368	107.1
$	36 2-Fluorobiphenyl	172	9.571	9.572	(0.917)	378059	1.90604	119.1
	39 Dimethylphthalate	163	10.177	10.177	(0.975)	433992	2.09240	130.8
*	42 Acenaphthene-d10	162	10.436	10.437	(1.000)	250834	2.00000	
	54 N-Nitrosodiphenylamine	169	11.347	11.359	(0.916)	251587	2.44569	152.9
$	55 2,4,6-Tribromophenol	330	11.497	11.497	(0.928)	86033	3.47653	217.3
	57 Hexachlorobenzene	284	11.998	11.998	(0.969)	112670	1.99446	124.7
	58 Pentachlorophenol	266	12.244	12.245	(0.989)	66454	2.14953	134.3
*	59 Phenanthrene-d10	188	12.383	12.383	(1.000)	396440	2.00000	
$	66 Terphenyl-d14	244	14.586	14.585	(0.915)	323746	2.68121	167.6
	67 Butylbenzylphthalate	149	15.327	15.325	(0.961)	318889	2.26681	141.7
*	69 Chrysene-d12	240	15.943	15.944	(1.000)	305193	2.00000	
*	77 Perylene-d12	264	17.728	17.729	(1.000)	261905	2.00000	
	79 Dibenzo(a,h)anthracene	278	18.883	18.883	(1.065)	378749	2.09891	131.2
	90 N-Nitrosodimethylamine	74	2.740	2.484	(0.429)	122694	1.71094	106.9(MH)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt2.i
Lab File ID: ns52sb.d
Lab Smp Id: NS52LCSS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: /chem3/nt2.i/20081007.b/SIMABN.m
Misc Info: 08-26290

Calibration Date: 07-OCT-2008
Calibration Time: 13:27
Client Smp ID: NS52LCSS1
Level: LOW
Sample Type: Solid

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	135442	67721	270884	150973	11.47
27 Naphthalene-d8	453834	226917	907668	509310	12.22
42 Acenaphthene-d10	220455	110228	440910	250834	13.78
59 Phenanthrene-d10	323435	161718	646870	396440	22.57
69 Chrysene-d12	272204	136102	544408	305193	12.12
77 Perylene-d12	284259	142130	568518	261905	-7.86

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	6.40	5.90	6.90	6.38	-0.27
27 Naphthalene-d8	8.07	7.57	8.57	8.07	0.00
42 Acenaphthene-d10	10.44	9.94	10.94	10.44	-0.01
59 Phenanthrene-d10	12.38	11.88	12.88	12.38	0.00
69 Chrysene-d12	15.94	15.44	16.44	15.94	0.00
77 Perylene-d12	17.73	17.23	18.23	17.73	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Anchor
Sample Matrix: SOLID
Lab Smp Id: NS52LCSS1
Level: LOW
Data Type: MS DATA
SpikeList File: wind.spk
Sublist File: wind.sub
Method File: /chem3/nt2.i/20081007.b/SIMABN.m
Misc Info: 08-26290

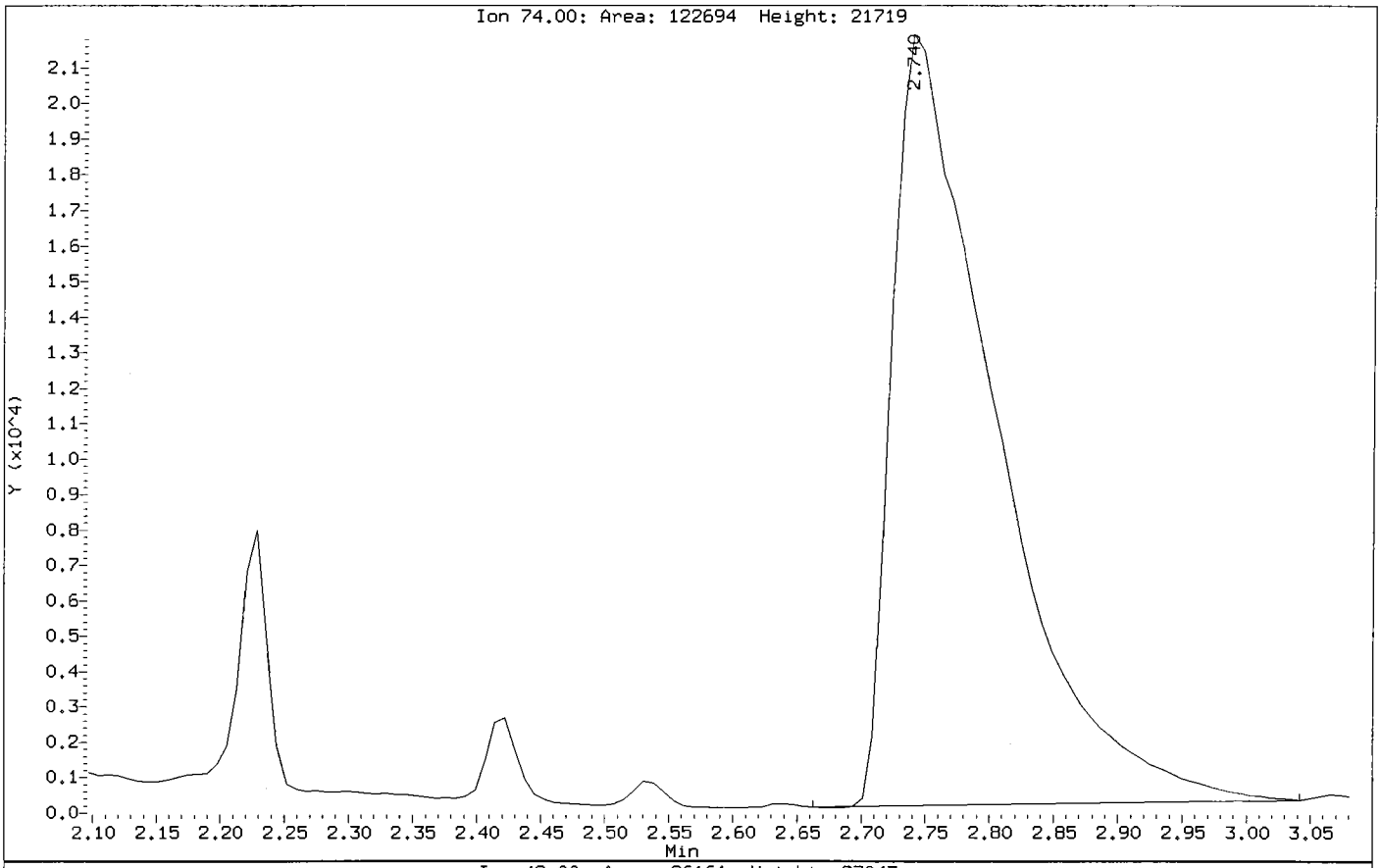
Client SDG: NS52
Fraction: SV
Client Smp ID: NS52LCSS1
Operator: VTS
SampleType: LCS
Quant Type: ISTD

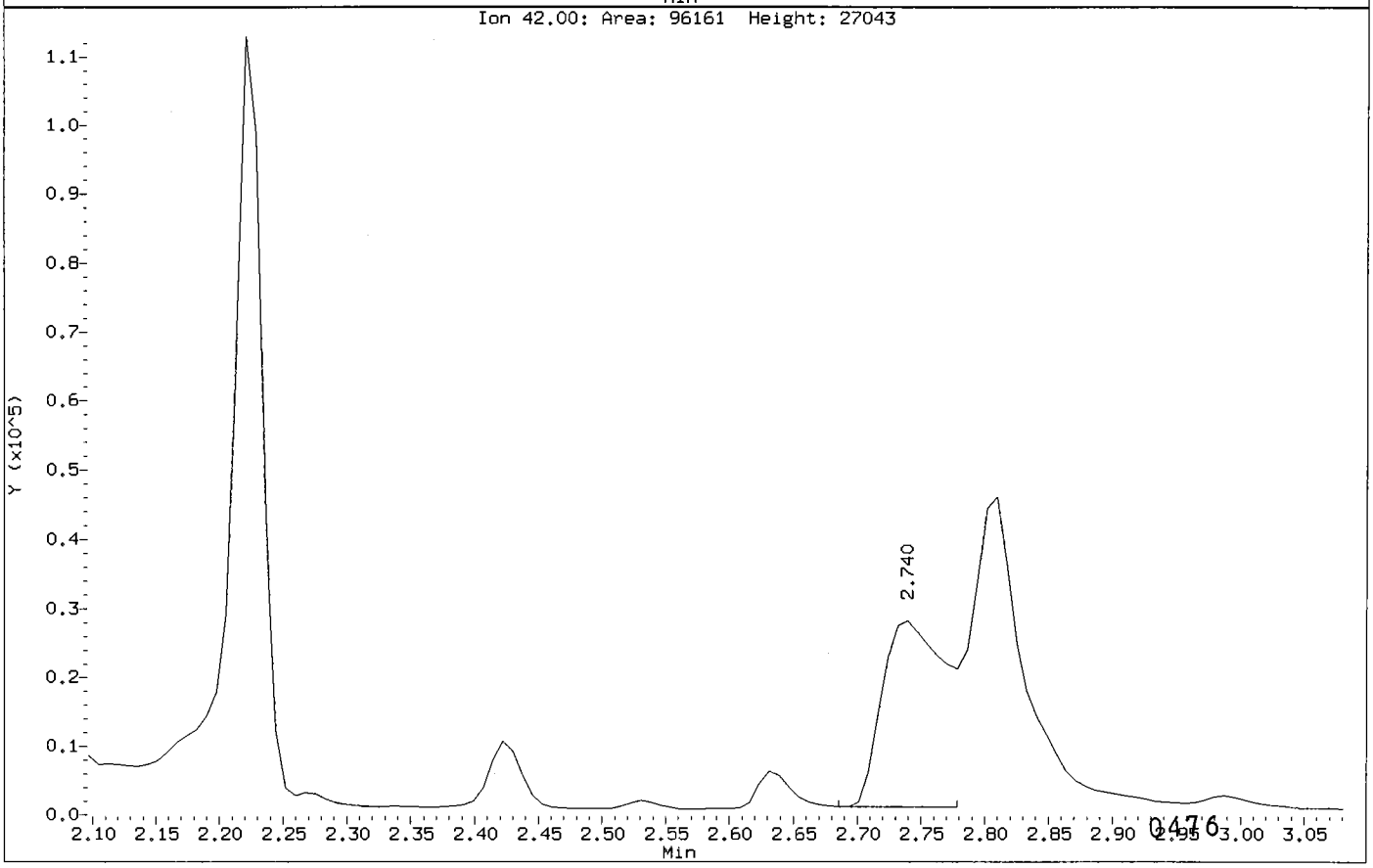
	SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
7	1,3-Dichlorobenzen	156.3	112.1	71.74	30-160
9	1,4-Dichlorobenzen	156.3	115.2	73.72	30-160
11	Benzyl alcohol	312.5	93.75	30.00*	30-160
12	1,2-Dichlorobenzen	156.3	108.5	69.45	30-160
13	2-Methylphenol	156.3	132.6	84.86	30-160
16	N-Nitroso-di-n-pro	156.3	116.1	74.29	30-160
22	2,4-Dimethylphenol	156.3	92.83	59.41	30-160
26	1,2,4-Trichloroben	156.3	113.4	72.57	30-160
30	Hexachlorobutadien	156.3	107.1	68.55	30-160
54	N-Nitrosodiphenyla	156.3	152.9	97.83	30-160
57	Hexachlorobenzene	156.3	124.7	79.78	30-160
58	Pentachlorophenol	156.3	134.3	85.98	30-160
67	Butylbenzylphthala	156.3	141.7	90.67	30-160
79	Dibenzo(a,h)anthra	156.3	131.2	83.96	30-160
90	N-Nitrosodimethyla	156.3	106.9	68.44	30-160

	SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 1	2-Fluorophenol	234.4	193.4	82.50	30-160
$ 2	Phenol-d5	234.4	165.8	70.74	30-160
$ 5	2-Chlorophenol-d4	234.4	196.1	83.68	30-160
$ 10	1,2-Dichlorobenzen	156.3	103.4	66.17	30-160
$ 18	Nitrobenzene-d5	156.3	104.4	66.80	30-160
$ 36	2-Fluorobiphenyl	156.3	119.1	76.24	30-160
$ 55	2,4,6-Tribromophen	234.4	217.3	92.71	30-160
$ 66	Terphenyl-d14	156.3	167.6	107.25	30-160

Data File: /chem3/nt2.i/20081007.b/ns52sb.d
Injection Date: 07-OCT-2008 14:32
Instrument: nt2.i
Client Sample ID: NS52LCSS1

Compound: N-Nitrosodimethylamine
CAS Number:

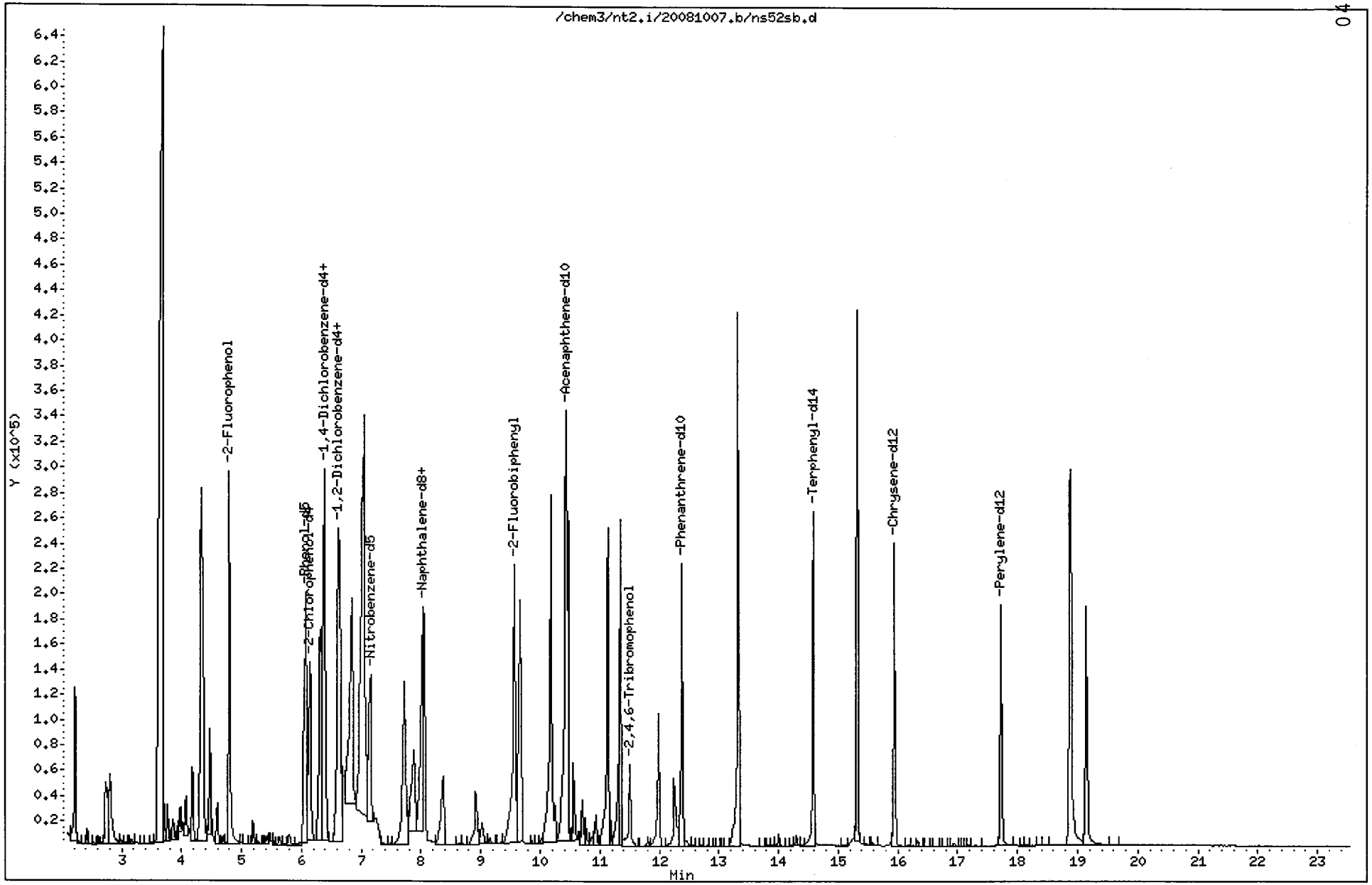




Data File: /chem3/nt2.i/20081007.b/ns52sb.d
Date : 07-OCT-2008 14:32
Client ID: NS52LCSS1
Sample Info: NS52LCSS1
Volume Injected (uL): 2.0
Column phase: ZB-5

Instrument: nt2.i
Operator: VTS
Column diameter: 0.32

0477



SIM SVOA Analysis
Extraction Bench Sheets/Run Logs

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NOS: NS52

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

RUSH

Organic Extractions Benchsheet

8270 SIM BAN PSDDA–Soil/Sediment
Sonication (3550B) SOP # 374S

Preparation Test BAN # 7 SIM BAN

ARI Job No(s) N552 Batch set up by: SL

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted	KD	Turbo Vap 1 2 3	GPC Prep Filter (1:1)	GPC (1:1) 1 or 2 Y/N (opt) (REQ)	Post GPC KD	Turbo Vap 1 2 3	Final Effective Volume	Volume to Lab	Comments
	N552 MBS	Date 10/6/08	16g	↓	↓	↓	↓	↓	↓	1mL	1mL	5g Actual of Pre-deactivated Sodium Sulfate (10g Actual Wt) (+2mL DI H2O)
	SBS	↓	↓							↓	↓	↓
	~~SBS Dup.~~		↓									
	N552 C	docked	30.56									
	E		23.92									
	Ems		23.29									
	Emsd		23.86	↓	↓	↓	↓	↓	↓	↓	↓	
						08-26290						
Analyst/Date:				NZ 10/6					CSZ 10/06/08			

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Diluted Surrogate	C2	250µL	4/3/09	PD	
Diluted Full List Spike	24	250µL	8/1/09	PD	
Diluted Base Spike	23	250µL	3/24/09	PD	
Diluted Acid Spike	14	250µL	11/7/08	PD	
Extraction Time:	10:10				

SPECIAL INSTRUCTIONS: 1. Weigh into 600mL or 400mL beakers. 2. ~~De-Activate blanks with ~2mL DI Water~~.
3. Extract 2X with 1:1 DCM/Acetone + 1X DCM only. 4. Collect into 500mL flask + Lg funnel with Sulfate + Acidified glasswool.
5. KD (Small Drying Column+Acidified Glasswool) on 90° bath. (Blanks=only 5g Sodium Sulfate). 6. TurboVap.
7. GPC ~~Required~~ optional (1:1) 8. KD (No drying column) on 80° bath. 9. TurboVap. 10. Vial.
A. Need Total Solids Y/(N) B. Archive/Freeze Y/(N)

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory
Analyst Notes

ARI Job No.: N552

Client ID: Anchor Environmental, LLC

Parameter: SIM SVOA

Client Project: Eddan Boatyard

SOP Number(s): 3745

No Anomalies:

List problems, concerns, corrective actions and any other pertinent information

Analyst Initials:		**Date:**	

3056F

Revision 006
1/12/07

Analytical Resources Inc.: Organics Instrument Log

NT-2 Serial No.: 82321977

Date: 9/11/08 Analysis: 8270 ABN Analyst: MC

GC Program: 8270WINT Column No: 138782 Column Type: 35 mSi

Instrument Tune (.U or .CT.): 080124 EM Voltage: 2047

Calibration File: fs0911 Curve Date: 9/11/08

IS/SS	Ical/Ccal	LCS/ICV
	1507-1,2	
1506-2	1508, 1509, 1510-1	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt2.i/20080911.b

	Time	Filename	LabID	ClientId	DF									
1	1131	fs0911.d	ABN 25		1	6.85	897574	8.54	3266784	10.91	1701922	12.89	2593060	16.49	2790486	18.29	3078541
2	1209	ic091101.d	ABN 2.5		1	6.85	145031	8.53	453425	10.90	248165	12.87	337939	16.47	303486	18.27	342418
3	1242	ic091102.d	ABN 20		1	6.85	138972	8.53	492774	10.90	234722	12.88	334690	16.48	325613	18.27	362792
4	1315	ic091103.d	ABN 0.1		1	6.85	133442	8.53	409908	10.90	219016	12.87	299202	16.47	260174	18.27	294392
5	1348	ic091104.d	ABN 10		1	6.85	131111	8.53	436894	10.90	224246	12.87	306177	16.47	292596	18.27	323585
6	1421	ic091105.d	ABN 0.5		1	6.85	121681	8.53	378501	10.90	205575	12.87	285953	16.47	240972	18.27	269880
7	1454	ic091106.d	ABN 5		1	6.85	122861	8.53	381502	10.90	199874	12.87	272729	16.47	258299	18.27	290912
8	1527	ic091107.d	ABN 1		1	6.85	117899	8.53	366927	10.90	197463	12.87	284454	16.47	231741	18.27	269434
9	1600	ic091108.d	ICV		1	6.85	120587	8.53	367139	10.90	198096	12.87	276935	16.47	249315	18.27	284468
10	1633	091101.d	NL92I	3A-05-SS	1	6.85	125105	8.53	376661	10.90	205851	12.88	370329	16.51	342717	18.33	277544
11	1706	091102.d	NL92J	3A-03-SS	1	6.85	143551	8.53	448040	10.90	237084	12.88	384391	16.48	410531	18.28	392684
12	1739	091103.d	NL92K	3A-04-SS	1	6.85	140757	8.53	437112	10.90	234838	12.88	410953	16.53	358029	18.33	246081
13	1812	091104.d	NL92L	3A-02-SS	1	6.85	151072	8.53	484715	10.90	251194	12.88	429950	16.50	457264	18.30	315193
14	1845	091105.d	NL92LMS	3A-02-SS MS	1	6.85	158264	8.53	517095	10.90	257872	12.88	424170	16.50	438738	18.31	277541
15	1918	091106.d	NL92LMSD	3A-02-SS MSD	1	6.85	150079	8.53	506259	10.90	250257	12.88	426181	16.50	445487	18.31	274705
16	1951	091107.d	NL66J	3A-01-SS	3	6.85	146918	8.53	452287	10.90	254245	12.88	399007	16.48	358669	18.28	137696

MC 9/12/08

Maintenance / Comments

New liner, chop col, clean seal

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): IC091101

Each line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: _____ Client ID: _____

ARI SOP: **801S**(SIM-PNA) **802S**(BTS-HX) **803S**(BTS-PW) **804S**(8270D) **805S**(BTS-ET)

Parameter(s): ~~SIM~~ NT2 SIM AMW CONVR 9/11/08

Instrument: NT-1 NT-2 NT-4 NT-6

Curve Date: _____ Analysis Start Date: _____

DFTPP Tune Meets Criteria?	YES / NO	Method Blank in Control?	YES / NO
DDT Breakdown <20%?	YES / NO / NA	LCS / LCSD Recovery in Control?	YES / NO
Peak Tailing Factor in Control?	YES / NO / NA	MS/MSD Recovery in Control?	YES / NO
ICal Meets RF & %RSD Criteria?	YES / NO	Surrogate Recovery in Control?	YES / NO
CCal Meets RF & %RSD Criteria?	YES / NO	Special Analysis Criteria Met?	YES / NO / NA
Internal Standard Meets Criteria?	YES / NO		

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

All cmpds <15% RSD or ~~SIM~~ $R^2 > .990$ Quad/Force

Additional Details on Reverse: Yes / No

Analyst Signature: _____ **Date:** 9/12/08

Reviewer's Signature: _____ **Date:** 10.8.2008

Analytical Resources Inc.: Organics Instrument Log

NT-2 Serial No.: 82321977

Date: 10-7-2008 Analysis: Sim ABN Analyst: VTS

GC Program: S_mw_nd Column No: 138782 Column Type: 28-5ms_i

Instrument Tune (.U or .CT.): 080124.U EM Voltage: 2447

Calibration File: df1007 Curve Date: 9-11-2008

IS/SS	Ical/Ccal	LCS/ICV
1506-2	1507-1,2	
	1508-1 1509-1 1510-1	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt2.i/20081007.b

	Time	Filename	LabID	ClientId	DF											
1	1309	df1007.d	DF1007		1	NO ISTDS FOUND										
2	1327	cc1007.d	CC1007		1	6.40	135442	8.07	453834	10.44	220455	12.38	323435	15.94	272204	17.73	284259
3	1359	ns52mb.d	NS52MBS1	NS52MBS1	1	6.38	147270	8.07	518673	10.44	239397	12.38	323354	15.94	281706	17.73	120284
4	1432	ns52sb.d	NS52LCSS1	NS52LCSS1	1	6.38	150973	8.07	509310	10.44	250834	12.38	396440	15.94	305193	17.73	261905
5	1505	nq08mb.d	NQ08MBS1	NQ08MBS1	1	6.38	151607	8.05	496234	10.42	248278	12.38	368412	15.94	300624	17.73	200825
6	1538	nq08sb.d	NQ08LCSS1	NQ08LCSS1	1	6.38	150949	8.05	510795	10.42	256126	12.38	388490	15.94	319128	17.73	208422
7	1615	ns52mbr.d	NS52MBS1	NS52MBS1	1	6.38	123527	8.07	414145	10.42	205354	12.38	307320	15.95	248371	17.71	162127
8	1647	nq03mb.d	NQ03MBS1	NQ03MBS1	1	6.38	147327	8.05	483894	10.42	244489	12.38	377038	15.94	309170	17.73	166040
9	1720	nq03sb.d	NQ03LCSS1	NQ03LCSS1	1	6.38	147046	8.07	498220	10.42	253729	12.38	383930	15.94	323263	17.73	241286
10	1753	ns52c.d	NS52C	EB-SE03-A-081003	1	6.38	139630	8.07	475121	10.42	235730	12.38	351856	15.94	314271	17.73	363363
11	1825	ns52e.d	NS52E	EB-SE04-A-081003	1	6.38	150254	8.05	506614	10.42	254269	12.38	382010	15.94	326408	17.73	378489
12	1858	ns52ems.d	NS52EMS	EB-SE04-A-08100 MS	1	6.38	154785	8.05	513583	10.42	259151	12.38	379515	15.94	322830	17.73	361376
13	1931	ns52emsd.d	NS52EMSD	EB-SE04-A-08100 MSD	1	6.38	154297	8.05	507000	10.42	257090	12.38	376413	15.94	332152	17.73	363396
14	2004	nq08srm.d	NQ08SRM1	SQ-1	1	6.38	165711	8.05	515243	10.42	263714	12.38	391214	15.94	347698	17.73	341944
15	2037	nq08a.d	NQ08A	8-107C-VC-1-2	1	6.38	155635	8.07	510295	10.42	254740	12.38	356956	15.94	354384	17.73	332781
16	2109	nq08b.d	NQ08B	8-106C-VC-1-2	1	6.38	152309	8.07	490479	10.42	244473	12.38	351885	15.94	316465	17.73	291819
17	2142	nq08c.d	NQ08C	8-105C-VC-1-2	1	6.38	156258	8.07	506590	10.42	251822	12.38	354705	15.94	328196	17.73	294694
18	2214	nq08d.d	NQ08D	8-104C-VC-1-2	1	6.38	155458	8.05	509216	10.42	245197	12.38	354492	15.94	327458	17.73	288407
19	2246	nq08dms.d	NQ08DMS	8-104C-VC-1-2 MS	1	6.38	149847	8.07	495217	10.42	245114	12.38	311744	15.94	329385	17.73	280526
20	2318	nq08dmsd.d	NQ08DMSD	8-104C-VC-1-2 MSD	1	6.38	151077	8.07	504383	10.44	241849	12.38	347885	15.94	330243	17.73	284743
21	2350	nq08e.d	NQ08E	8-08-VC-1-2	1	6.38	146420	8.07	471903	10.42	239119	12.38	324057	15.95	306181	17.73	253713
22	0022	nq08f.d	NQ08F	8-06-VC-1-2	1	6.36	95707	8.07	448833	10.44	202140	12.38	295195	15.94	300716	17.73	255630
23	0054	nq03srm.d	NQ03SRM1	SQ-1	1	6.40	139739	8.07	467695	10.44	217412	12.38	326520	15.94	306380	17.73	234021
24	0126	nq03a.d	NQ03A	3A-01-VC-1-3	3	6.40	133821	8.07	417103	10.44	210786	12.38	325304	15.96	364192	17.76	212090

□ = <50% DFEP

O = out of 12hr QC

New liner/new septum/flushed injector/clipped column

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): CC1007

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

10.8.2008 VTS

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

RI Project ID: NS52 Client ID: Anchor

RI SOP: **801S**(SIM-PNA) **802S**(BTS-HX) **803S**(BTS-PW) **804S**(8270D) (Sim) **805S**(BTS-ET)

arameter(s): Sim ABN

ıstrument: NT-1 (NT-2) NT-4 NT-6

urve Date: 9.11.2008 Analysis Start Date: 10.7.2008

FTPP Tune Meets Criteria?	(YES) / NO	Method Blank in Control?	(YES) / NO
DT Breakdown <20%?	(YES) / NO / NA	LCS / LCSD Recovery in Control?	YES / NO
eak Tailing Factor in Control?	(YES) / NO / NA	MS/MSD Recovery in Control?	YES / NO
al Meets RF & %RSD Criteria?	(YES) / NO	Surrogate Recovery in Control?	YES / NO
Cal Meets RF & %RSD Criteria?	(YES) / NO	Special Analysis Criteria Met?	YES / NO / NA
ternal Standard Meets Criteria?	(YES) / NO		

etail problems, corrective actions and/or other pertinent information below (use reverse side nen necessary):

- Benzyl Alcohol not recovered in ICMS/LCMSD.
- P 30% in ICV
- 1st run of MB showed <50% Area for d12-perylene. See Rerun Info in QLA which is OK'd.

ditional Details on Reverse: Yes / No

alyst Signature: [signature] **Date:** 10.8.2008

viewer's Signature: [signature] **Date:** 10/8/08

PCB Analysis
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NOS: NS52

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB SOIL/SEDIMENT SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02

Client ID	DCBP % REC	DCBP LCL-UCL	TCMX % REC	TCMX LCL-UCL	TOT OUT
EB-SE03-A-081003	68.0%	40-139	71.2%	49-120	0
MB-100708	76.8%	59-122	70.5%	47-120	0
LCS-100708	85.5%	59-122	74.8%	47-120	0
EB-SE04-A-081003	64.8%	40-139	70.2%	49-120	0
EB-SE04-A-081003 MS	69.0%	40-139	70.5%	49-120	0
EB-SE04-A-081003 MSD	69.8%	40-139	69.0%	49-120	0

Low Level PSDDA Control Limits
Prep Method: SW3550B
Log Number Range: 08-26288 to 08-26290

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: EB-SE04-A-081003
MS/MSD

Lab Sample ID: NS52E
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted MS/MSD: 10/07/08

Date Analyzed MS: 10/08/08 09:59
MSD: 10/08/08 10:21
Instrument/Analyst MS: ECD6/JGR
MSD: ECD6/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount MS: 26.0 g-dry-wt
MSD: 26.0 g-dry-wt
Final Extract Volume MS: 2.5 mL
MSD: 2.5 mL
Dilution Factor MS: 1.00
MSD: 1.00
Silica Gel: No

Percent Moisture: 27.5%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Aroclor 1016	< 9.8 U	33.2	48.4	68.6%	33.1	48.5	68.2%	0.3%
Aroclor 1260	10.2	41.5	48.4	64.7%	43.8	48.5	69.3%	5.4%

Results reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: LCS-100708
LAB CONTROL

Lab Sample ID: LCS-100708
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 08:52
Instrument/Analyst: ECD6/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.0 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	36.0	50.4	71.4%
Aroclor 1260	44.4	50.4	88.1%

PCB Surrogate Recovery

Decachlorobiphenyl	85.5%
Tetrachlorometaxylene	74.8%

Results reported in µg/kg (ppb)

PCB METHOD BLANK SUMMARY

BLANK NO.

NS52MBS1

Lab Name: ANALYTICAL RESOURCES, INC
Client: ANCHOR

ARI Job No.: NS52
Project: EDDON BOATYARD

Lab Sample ID: NS52MBS1
Lab File ID: 1007A056

Date Extracted: 10/07/08
Matrix: SOLID

Date Analyzed: 10/08/08
Instrument ID: ECD6

Time Analyzed: 0830
GC Columns: ZB5/ZB35

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	NS52LCSS1	NS52LCSS1	10/08/08
02	EB-SE03-A-081003	NS52C	10/08/08
03	EB-SE04-A-081003	NS52E	10/08/08
04	EB-SE04-A-08100 MS	NS52EMS	10/08/08
05	EB-SE04-A-08100 MSD	NS52EMSD	10/08/08

ALL RUNS ARE DUAL COLUMN

FORM IV PCB

FORM 8
PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR EVIRONMENTAL

ARI Job No.: NS52 Project: EDDON BOATYARD

GC Column: ZB5 ID: 0.53(mm) Instrument ID: ECD6

Init. Calib. Date: 10/06/08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

					IS1 AREA	RT	IS2 AREA	RT
				ICAL MIDPT	2496451	3.119	1374615	15.091
				UPPER LIMIT	4992902	3.219	2749230	15.191
				LOWER LIMIT	1248226	3.019	687308	14.991
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME	IS1 AREA	RT	IS2 AREA	RT
01		IB	10/06/08	1942	2443305	3.118	1355789	15.090
02		1660 0.02	10/06/08	2004	2496451	3.119	1374615	15.091
03		1660 0.1	10/06/08	2027	2405192	3.120	1328447	15.091
04		1660 0.25	10/06/08	2049	2417502	3.118	1336983	15.092
05		1660 0.5	10/06/08	2112	2385999	3.119	1311651	15.091
06		1660 1.0	10/06/08	2134	2449085	3.119	1378346	15.091
07		1660 ICV	10/06/08	2156	2377143	3.120	1312928	15.091
08		1242	10/06/08	2219	2362338	3.118	1306471	15.092
09		1248	10/06/08	2241	2367092	3.121	1295607	15.091
10		1254	10/06/08	2304	2350681	3.120	1297905	15.090
11		2162	10/06/08	2326	2326009	3.120	1279160	15.093
12		3268	10/06/08	2348	2292932	3.119	1268958	15.092
13		AR1660	10/08/08	0342	2035402	3.120	1107625	15.092
14		AR1242	10/08/08	0404	1983085	3.122	1064792	15.092
15	NS52MBS1	NS52MBS1	10/08/08	0830	1997964	3.118	1085533	15.093
16	NS52LCSS1	NS52LCSS1	10/08/08	0852	1961472	3.120	1060938	15.092
17	EB-SE03-A-08	NS52C	10/08/08	0915	3709451	3.118	2501070	15.093
18	EB-SE04-A-08	NS52E	10/08/08	0937	1949513	3.121	1126908	15.091
19	EB-SE04-A-08	NS52EMS	10/08/08	0959	2029392	3.120	1125632	15.091
20	EB-SE04-A-08	NS52EMSD	10/08/08	1021	2032508	3.120	1207627	15.091
21		AR1660	10/08/08	1128	2134428	3.123	1142276	15.092
22		AR1254	10/08/08	1150	2096927	3.124	1104951	15.093

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- 0.1 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

FORM 8
PCB INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR EVIRONMENTAL

ARI Job No.: NS52 Project: EDDON BOATYARD

GC Column: ZB35 ID: 0.53(mm) Instrument ID: ECD6

Init. Calib. Date: 10/06/08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

					IS1 AREA	RT	IS2 AREA	RT
				ICAL MIDPT	1219379	4.316	607950	15.914
				UPPER LIMIT	2438758	4.416	1215900	16.014
				LOWER LIMIT	609690	4.216	303975	15.814
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME	IS1 AREA	RT	IS2 AREA	RT
01		IB	10/06/08	1942	1180215	4.315	599002	15.913
02		1660 0.02	10/06/08	2004	1219379	4.316	607950	15.914
03		1660 0.1	10/06/08	2027	1178936	4.316	589998	15.913
04		1660 0.25	10/06/08	2049	1179079	4.315	604278	15.914
05		1660 0.5	10/06/08	2112	1173251	4.315	598573	15.914
06		1660 1.0	10/06/08	2134	1223086	4.316	631952	15.914
07		1660 ICV	10/06/08	2156	1182377	4.317	601131	15.913
08		1242	10/06/08	2219	1183113	4.315	602434	15.914
09		1248	10/06/08	2241	1187585	4.317	601071	15.915
10		1254	10/06/08	2304	1190930	4.317	609602	15.914
11		2162	10/06/08	2326	1188903	4.317	611159	15.914
12		3268	10/06/08	2348	1194528	4.316	610023	15.915
13		AR1660	10/08/08	0342	1337269	4.319	685974	15.917
14		AR1242	10/08/08	0404	1287469	4.319	661932	15.918
15	NS52MBS1	NS52MBS1	10/08/08	0830	1351714	4.318	713631	15.918
16	NS52LCSS1	NS52LCSS1	10/08/08	0852	1377426	4.319	767033	15.918
17	EB-SE03-A-08	NS52C	10/08/08	0915	2517701*	4.317	1256512*	15.917
18	EB-SE04-A-08	NS52E	10/08/08	0937	1305114	4.319	629502	15.916
19	EB-SE04-A-08	NS52EMS	10/08/08	0959	1338073	4.318	634447	15.917
20	EB-SE04-A-08	NS52EMSD	10/08/08	1021	1326664	4.319	607125	15.917
21		AR1660	10/08/08	1128	1395681	4.321	682464	15.918
22		AR1254	10/08/08	1150	1330161	4.321	653586	15.919

IS1 = 1-Bromo-2-Nitrobenzene RT Window = RT +/- 0.1 min
IS2 = Hexabromobiphenyl

* Indicates value outside QC Limits

PCB Analysis
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NOS: NS52

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: EB-SE03-A-081003
SAMPLE

Lab Sample ID: NS52C
LIMS ID: 08-26288
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 09:15
Instrument/Analyst: ECD6/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 45.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.8	< 9.8 U
53469-21-9	Aroclor 1242	9.8	< 9.8 U
12672-29-6	**Aroclor 1248**	**9.8**	**30**
11097-69-1	**Aroclor 1254**	**9.8**	**62**
11096-82-5	**Aroclor 1260**	**9.8**	**20**
11104-28-2	Aroclor 1221	9.8	< 9.8 U
11141-16-5	Aroclor 1232	9.8	< 9.8 U
37324-23-5	Aroclor 1262	9.8	< 9.8 U
11100-14-4	Aroclor 1268	9.8	< 9.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	68.0%
Tetrachlorometaxylene	71.2%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081006.B/1007-1.b/1007A058.d
Data file 2: 20081006.B/1007-2.b/1007A058.d
Method: /chem2/ecd6.i/20081006.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd6.i, 2ul
Quant Method: Internal Std

ARI ID: NS52C
Client ID: EB-SE03-A-081003
Injection Date: 08-OCT-2008 09:15
Report Date: 10/08/2008 12:26
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.816	-0.001	771135	6.297	-0.001	570192	28.1	28.5	1.4	Tetrachloro-m-xylene
14.826	0.002	653798	15.324	0.001	447956	21.8	27.2	21.7	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	70.3	71.3
Decachlorobiphenyl	54.6	67.9

10/08/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2417502	3709451	53.4
Hexabromobiphenyl	1336983	2501070	87.1

double I.S. added

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1179079	2517701	113.5 <-
Hexabromobiphenyl	604278	1256512	107.9 <-

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.589	-0.001	69350	90.7	1	8.149	-0.002	142614	158.0
Aroclor-1016	2	8.207	0.004	78087	81.0	2	8.850	-0.001	199242	115.6
Aroclor-1016	3	8.328	-0.002	44040	68.9	3	9.285	-0.002	32490	77.2
Aroclor-1016	NS	---			----	4	9.411	-0.003	257386	471.7
	Total Col1Ave (3 peaks):			80.2		Total Col2Ave (4 peaks):			205.6	RPD = 88*
	Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):			116.9	
Aroclor-1221	1	---			0.0	1	7.028	0.008	56176	230.4
Aroclor-1221	2	6.388	-0.036	81104	403.4	2	7.279	0.001	9255700	65015.1
Aroclor-1221	3	6.528	0.000	14152	19.8	3	7.402	0.008	59285	129.6
Aroclor-1221	NS	---			----	4	8.149	-0.006	142614	878.4
	Col1Ave: <3 Quant Peaks					Col2Ave: 16563.4				
Aroclor-1232	1	6.528	0.000	14152	22.8	1	7.402	0.008	59285	147.7
Aroclor-1232	2	7.589	0.001	69350	219.7	2	8.149	0.002	142614	354.1
Aroclor-1232	3	8.032	0.004	320391	331.8	3	8.850	0.002	199242	283.0
Aroclor-1232	4	8.207	0.006	78087	192.6	4	9.285	0.002	32490	183.3
	Total Col1Ave (4 peaks):			191.7		Total Col2Ave (4 peaks):			242.0	RPD = 23
	Corrected Ave (3 peaks):			145.0		Corrected Ave (3 peaks):			204.7	RPD = 34
Aroclor-1242	1	7.589	-0.002	69350	124.4	1	15.324	0.001	447956	372.9
Aroclor-1242	2	8.032	0.002	320391	189.0	2	8.850	0.000	199242	160.4
Aroclor-1242	3	8.207	0.004	78087	109.7	3	9.285	-0.002	32490	103.4
Aroclor-1242	4	9.148	-0.001	269128	407.7	4	9.411	-0.003	257386	660.9
Aroclor-1242	NS	---			----	5	10.397	-0.002	299245	715.8
	Total Col1Ave (4 peaks):			207.7		Total Col2Ave (5 peaks):			402.7	RPD = 64*
	Corrected Ave (3 peaks):			141.0		Corrected Ave (4 peaks):			324.4	RPD = 79*
Aroclor-1248	1	8.032	0.004	320391	255.8	1	8.850	0.002	199242	214.5
Aroclor-1248	2	8.610	0.001	371333	469.1	2	9.411	-0.001	257386	407.2
Aroclor-1248	3	9.148	0.002	269128	266.5	3	9.882	0.001	210271	300.9
Aroclor-1248	4	9.575	0.002	419608	406.1	4	10.397	-0.001	299245	397.7
	Total Col1Ave (4 peaks):			345.4		Total Col2Ave (4 peaks):			330.1	RPD = 6
	Corrected Ave (3 peaks):			309.5		Corrected Ave (3 peaks):			304.4	RPD = 2
Aroclor-1254	1	10.010	0.002	869582	523.7	1	10.557	0.002	356618	472.9
Aroclor-1254	2	10.440	0.001	468332	457.0	2	10.755	0.001	545253	581.1
Aroclor-1254	3	10.597	0.003	1279120	670.9	3	11.348	0.001	277889	403.3
Aroclor-1254	4	10.988	0.000	1303258	655.5	4	11.518	0.001	852693	566.1
Aroclor-1254	5	11.345	0.001	681023	837.3	5	12.403	0.000	515533	579.9
	Total Col1Ave (5 peaks):			628.9		Total Col2Ave (5 peaks):			520.7	RPD = 19
	Corrected Ave (4 peaks):			576.7		Corrected Ave (4 peaks):			505.6	RPD = 13
Aroclor-1260	1	12.039	0.002	223709	154.7	1	12.766	0.001	126530	157.0
Aroclor-1260	2	12.403	0.002	184920	127.5	2	13.258	-0.004	319768	334.9
Aroclor-1260	3	12.811	-0.001	584247	173.9	3	13.533	0.000	322322	173.8
Aroclor-1260	4	13.254	-0.001	372287	208.0	4	14.065	0.001	346982	273.6
Aroclor-1260	5	13.450	0.003	142494	167.5	NS	---			----
	Total Col1Ave (5 peaks):			166.3		Total Col2Ave (4 peaks):			234.8	RPD = 34
	Corrected Ave (4 peaks):			155.9		Corrected Ave (3 peaks):			201.5	RPD = 25
Aroclor-1262	1	12.403	0.004	184920	97.0	1	12.766	0.004	126530	96.0
Aroclor-1262	2	12.811	0.000	584247	140.7	2	13.258	-0.001	319768	263.1
Aroclor-1262	3	13.254	-0.001	372287	264.0	3	13.533	0.003	322322	141.1
Aroclor-1262	4	13.450	0.003	142494	81.1	4	14.065	0.002	346982	223.3
Aroclor-1262	5	14.064	-0.009	441437	304.4	5	14.667	0.006	97218	115.2
	Total Col1Ave (5 peaks):			177.4		Total Col2Ave (5 peaks):			167.7	RPD = 6
	Corrected Ave (4 peaks):			145.7		Corrected Ave (4 peaks):			143.9	RPD = 1
Aroclor-1268	1	13.377	0.003	193767	41.0	1	14.010	0.003	139097	54.5
Aroclor-1268	2	13.450	0.006	142494	33.9	2	14.065	0.001	346982	147.2
Aroclor-1268	3	13.835	0.016	139877	39.3	3	14.395	-0.001	38409	19.9
Aroclor-1268	4	14.485	-0.014	224902	22.1	4	14.991	-0.034	94718	17.2
	Total Col1Ave (4 peaks):			34.1		Total Col2Ave (4 peaks):			59.7	RPD = 55*

value inflated by AR1254

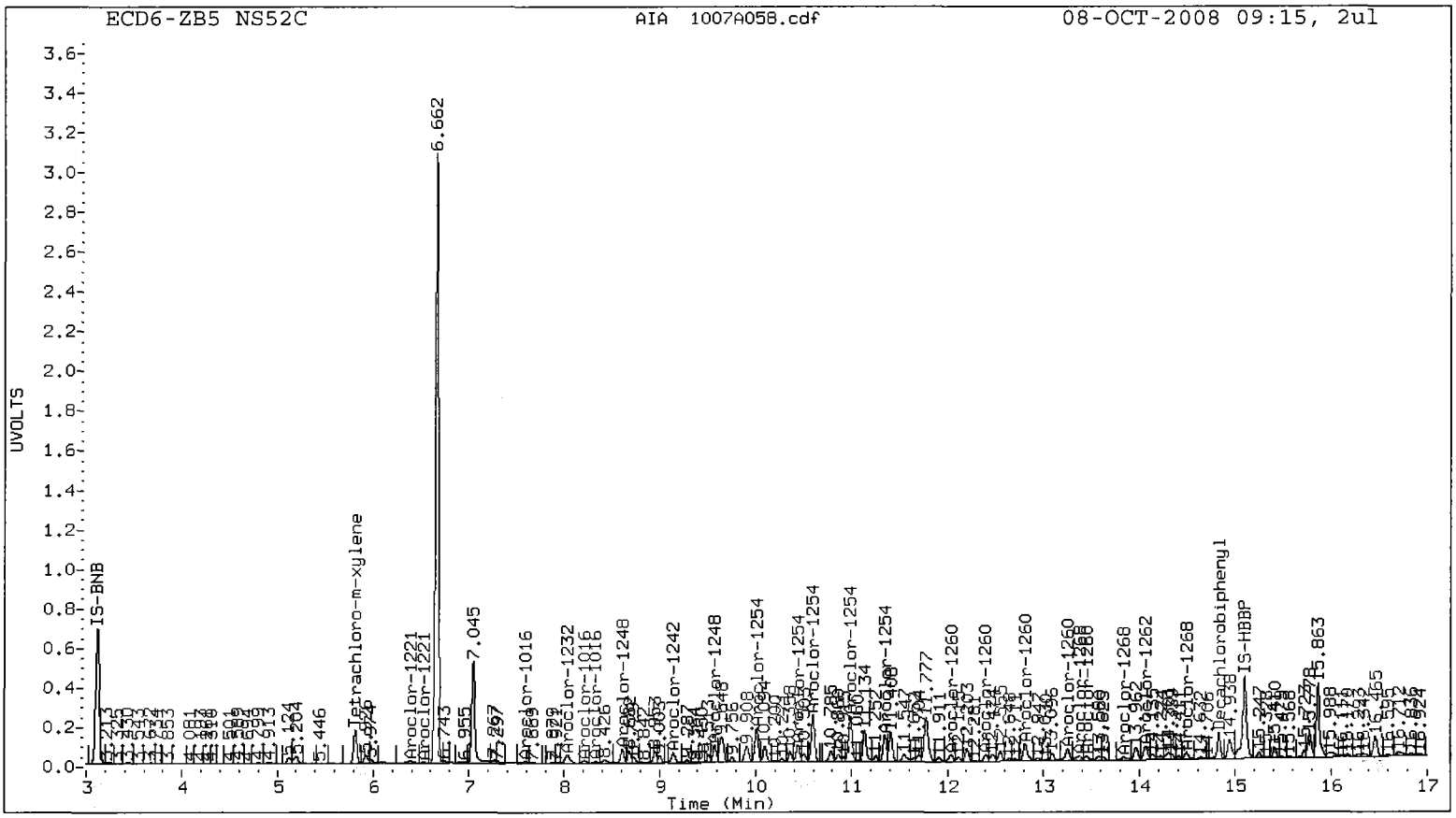
Corrected Ave (3 peaks): 31.8 Corrected Ave (3 peaks): 30.5 RPD = 4

Total PCB Area Col1 (5.917 - 14.724) = 36536962 Col1 Total PCB = 1.0 ppm*

Total PCB Area Col2 (6.398 - 15.223) = 24055092 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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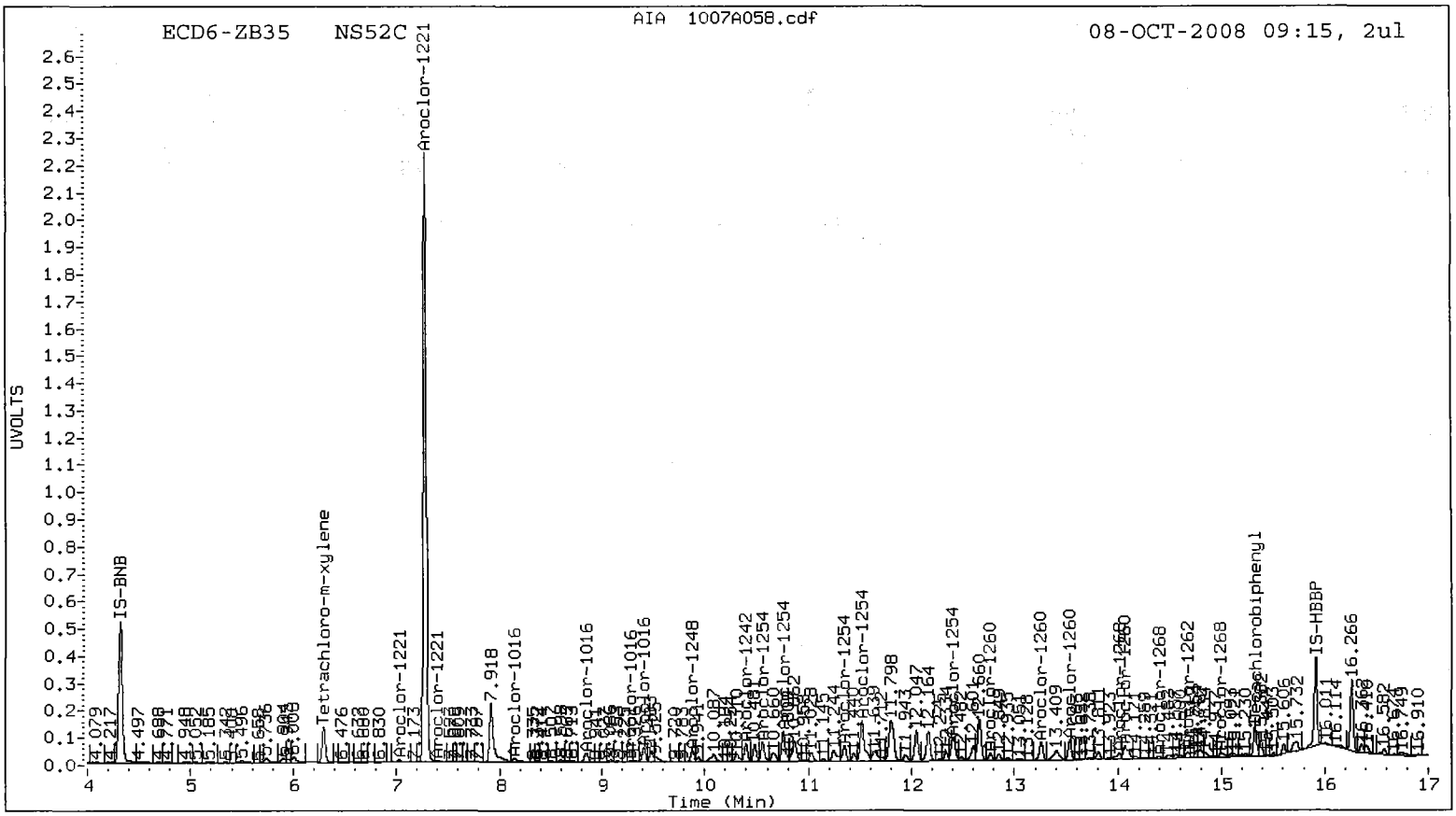
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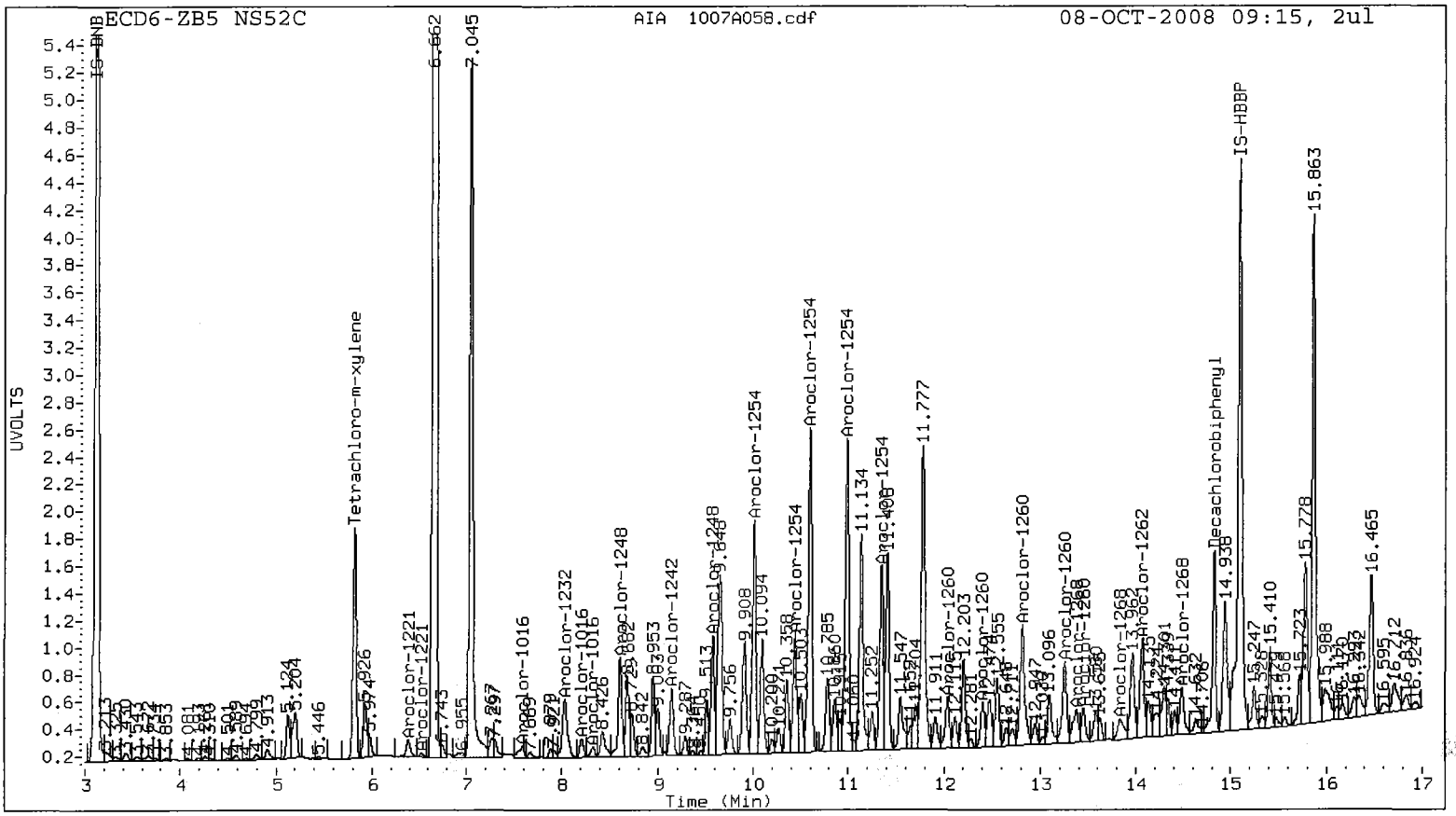
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Aroclor-1248
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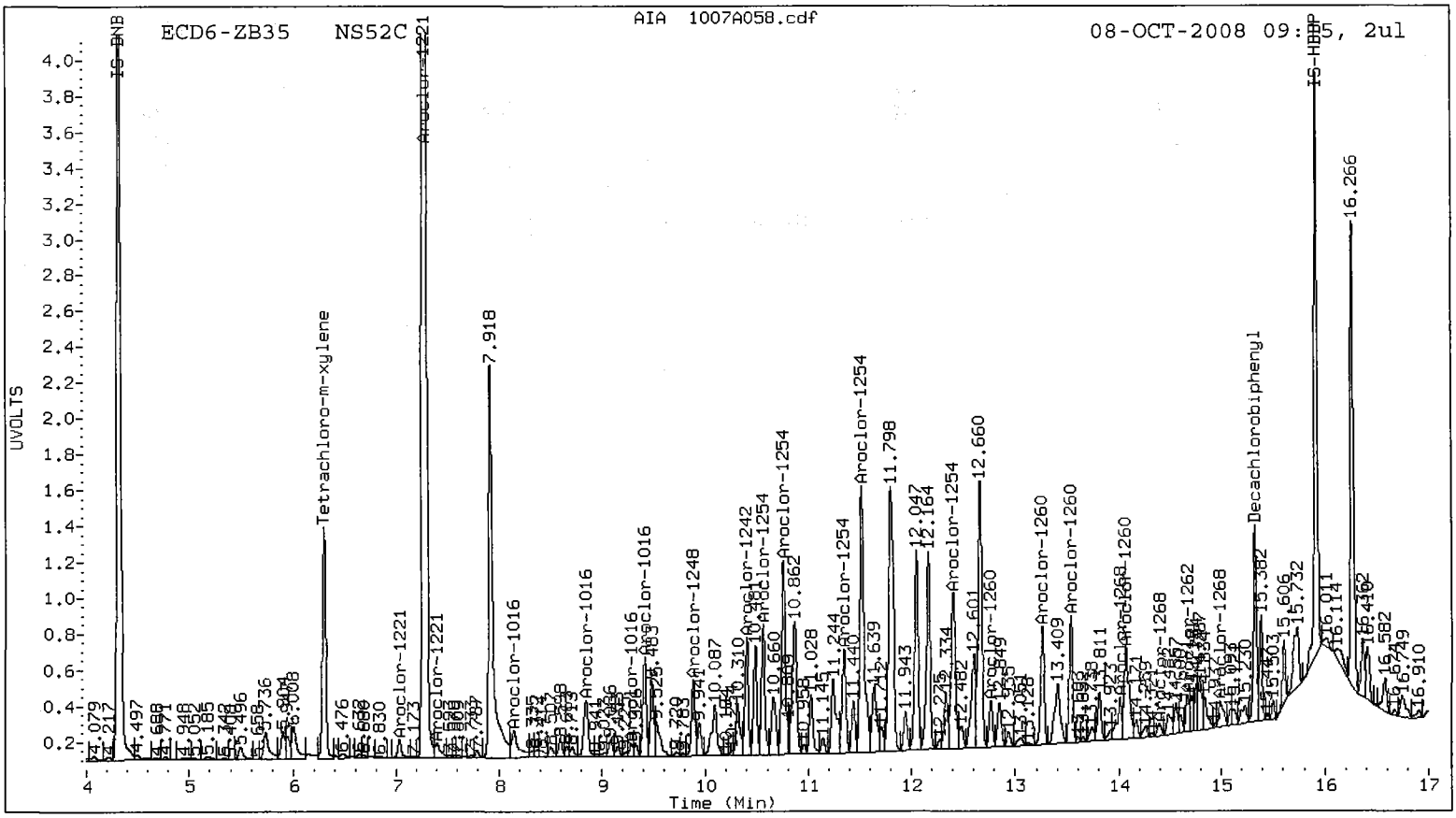
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP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Aroclor-1242
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: EB-SE04-A-081003
SAMPLE

Lab Sample ID: NS52E
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 09:37
Instrument/Analyst: ECD6/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 27.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.8	< 9.8 U
53469-21-9	Aroclor 1242	9.8	< 9.8 U
12672-29-6	**Aroclor 1248**	**9.8**	**24**
11097-69-1	**Aroclor 1254**	**9.8**	**37**
11096-82-5	**Aroclor 1260**	**9.8**	**10**
11104-28-2	Aroclor 1221	9.8	< 9.8 U
11141-16-5	Aroclor 1232	9.8	< 9.8 U
37324-23-5	Aroclor 1262	9.8	< 9.8 U
11100-14-4	Aroclor 1268	9.8	< 9.8 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	64.8%
Tetrachlorometaxylene	70.2%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081006.B/1007-1.b/1007A059.d
Data file 2: 20081006.B/1007-2.b/1007A059.d
Method: /chem2/ecd6.i/20081006.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd6.i, 2ul
Quant Method: Internal Std

ARI ID: NS52E
Client ID:
Injection Date: 08-OCT-2008 09:37
Report Date: 10/08/2008 12:00
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.817	0.000	810305	6.297	0.000	561641	28.1	27.1	3.7	Tetrachloro-m-xylene
14.824	0.000	615222	15.322	0.000	427714	22.8	25.9	12.6	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	70.3	67.8
Decachlorobiphenyl	57.0	64.7

JL 10/08/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2417502	1949513	-19.4
Hexabromobiphenyl	1336983	1126908	-15.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1179079	1305114	10.7
Hexabromobiphenyl	604278	629502	4.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

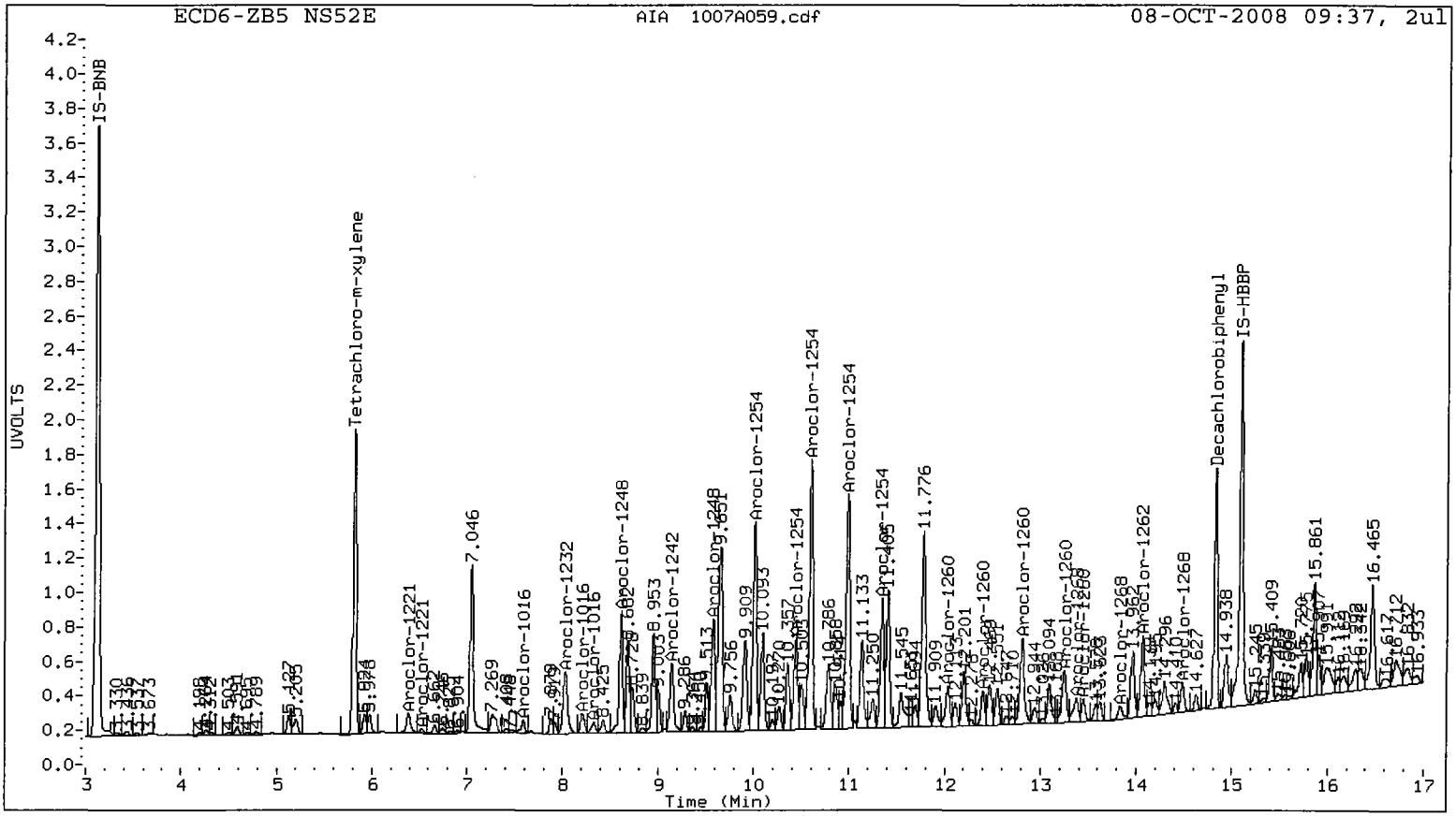
Aroclor	Peak#	RT	Shift	ZB5 Col Area	Amount	Peak#	RT	Shift	ZB35 Col Area	Amount
Aroclor-1016	1	7.589	-0.001	45357	56.5	1	8.150	-0.001	66102	70.6
Aroclor-1016	2	8.208	0.004	69497	68.6	2	8.850	-0.001	146052	81.7
Aroclor-1016	3	8.328	-0.001	40781	60.7	3	9.286	-0.002	24914	57.1
Aroclor-1016	NS	---			----	4	9.410	-0.003	247421	437.3
	Total Col1Ave (3 peaks):				61.9	Total Col2Ave (4 peaks):				161.7 RPD = 89*
	~~Corrected Ave: < 3 Peaks~~					~~Corrected Ave (3 peaks):~~				~~69.8~~
Aroclor-1221	1	---			0.0	1	7.028	0.008	43862	173.5
Aroclor-1221	2	6.387	-0.037	71090	336.4	2	7.279	0.001	15805	107.1
Aroclor-1221	3	6.528	0.000	12257	16.3	3	7.404	0.009	20934	44.1
Aroclor-1221	NS	---			----	4	8.150	-0.004	66102	392.7
	~~Col1Ave: <3 Quant Peaks~~						~~Col2Ave: 179.4~~			
Aroclor-1232	1	6.528	0.000	12257	18.8	1	7.404	0.009	20934	50.3
Aroclor-1232	2	7.589	0.002	45357	136.7	2	8.150	0.003	66102	158.3
Aroclor-1232	3	8.032	0.003	247992	244.3	3	8.850	0.002	146052	200.1
Aroclor-1232	4	8.208	0.007	69497	163.1	4	9.286	0.002	24914	135.6
	Total Col1Ave (4 peaks):				140.7	Total Col2Ave (4 peaks):				136.1 RPD = 3
	Corrected Ave (3 peaks):				106.2	Corrected Ave (3 peaks):				114.7 RPD = 8
Aroclor-1242	1	7.589	-0.001	45357	77.4	1	15.322	0.000	427714	343.4
Aroclor-1242	2	8.032	0.001	247992	139.2	2	8.850	0.000	146052	113.4
Aroclor-1242	3	8.208	0.005	69497	92.9	3	9.286	-0.002	24914	76.5
Aroclor-1242	4	9.146	-0.003	231321	333.4	4	9.410	-0.003	247421	612.8
Aroclor-1242	NS	---			----	5	10.397	-0.002	227268	524.3
	Total Col1Ave (4 peaks):				160.7	Total Col2Ave (5 peaks):				334.1 RPD = 70*
	Corrected Ave (3 peaks):				103.2	Corrected Ave (4 peaks):				264.4 RPD = 88*
Aroclor-1248	1	8.032	0.004	247992	188.4	1	8.850	0.002	146052	151.7
Aroclor-1248	2	8.610	0.001	349833	420.4	2	9.410	-0.001	247421	377.5
Aroclor-1248	3	9.146	0.000	231321	217.9	3	9.880	0.000	200784	277.1
Aroclor-1248	4	9.575	0.002	321545	296.1	4	10.397	-0.001	227268	291.3
	Total Col1Ave (4 peaks):				280.7	Total Col2Ave (4 peaks):				274.4 RPD = 2
	Corrected Ave (3 peaks):				234.1	Corrected Ave (3 peaks):				240.0 RPD = 2
Aroclor-1254	1	10.009	0.001	637955	365.5	1	10.556	0.001	313826	401.4
Aroclor-1254	2	10.438	0.000	289791	269.0	2	10.753	0.000	373362	383.8
Aroclor-1254	3	10.595	0.001	845778	422.0	3	11.348	0.001	170480	238.6
Aroclor-1254	4	10.985	-0.002	792655	379.3	4	11.517	-0.001	576630	369.3
Aroclor-1254	5	11.343	-0.002	386521	452.1	5	12.402	0.000	277593	301.2
	Total Col1Ave (5 peaks):				377.6	Total Col2Ave (5 peaks):				338.9 RPD = 11
	Corrected Ave (4 peaks):				359.0	Corrected Ave (4 peaks):				323.2 RPD = 10
Aroclor-1260	1	12.035	-0.001	142128	109.1	1	12.765	0.000	79649	98.6
Aroclor-1260	2	12.400	-0.001	108457	83.0	2	13.257	-0.004	168327	175.9
Aroclor-1260	3	12.809	-0.003	320415	105.9	3	13.531	-0.002	169069	91.0
Aroclor-1260	4	13.253	-0.003	207929	128.9	4	14.064	-0.001	109232	86.0
Aroclor-1260	5	13.449	0.001	71541	93.3	NS	---			----
	Total Col1Ave (5 peaks):				104.0	Total Col2Ave (4 peaks):				112.9 RPD = 8
	Corrected Ave (4 peaks):				97.8	Corrected Ave (3 peaks):				81.9 RPD = 6
Aroclor-1262	1	12.400	0.001	108457	63.2	1	12.765	0.003	79649	60.3
Aroclor-1262	2	12.809	-0.002	320415	85.6	2	13.257	-0.001	168327	138.2
Aroclor-1262	3	13.253	-0.003	207929	163.6	3	13.531	0.002	169069	73.9
Aroclor-1262	4	13.449	0.002	71541	45.2	4	14.064	0.000	109232	70.2
Aroclor-1262	5	14.063	-0.010	258341	197.7	5	14.663	0.002	45907	54.3
	Total Col1Ave (5 peaks):				111.1	Total Col2Ave (5 peaks):				79.4 RPD = 33
	Corrected Ave (4 peaks):				89.4	Corrected Ave (4 peaks):				64.7 RPD = 32
Aroclor-1268	1	13.375	0.001	99000	23.2	1	14.008	0.002	68350	26.7
Aroclor-1268	2	13.449	0.004	71541	18.9	2	14.064	-0.001	109232	46.3
Aroclor-1268	3	13.831	0.012	52897	16.5	3	14.390	-0.005	31689	16.4
Aroclor-1268	4	14.485	-0.014	97538	10.7	4	15.023	-0.001	19247	3.5
	Total Col1Ave (4 peaks):				17.3	Total Col2Ave (4 peaks):				23.2 RPD = 29
	Corrected Ave (3 peaks):				15.4	Corrected Ave (3 peaks):				15.5 RPD = 1

Total PCB Area Col1 (5.917 - 14.724) = 13154213 Col1 Total PCB = 0.7 ppm*

Total PCB Area Col2 (6.398 - 15.223) = 8532665 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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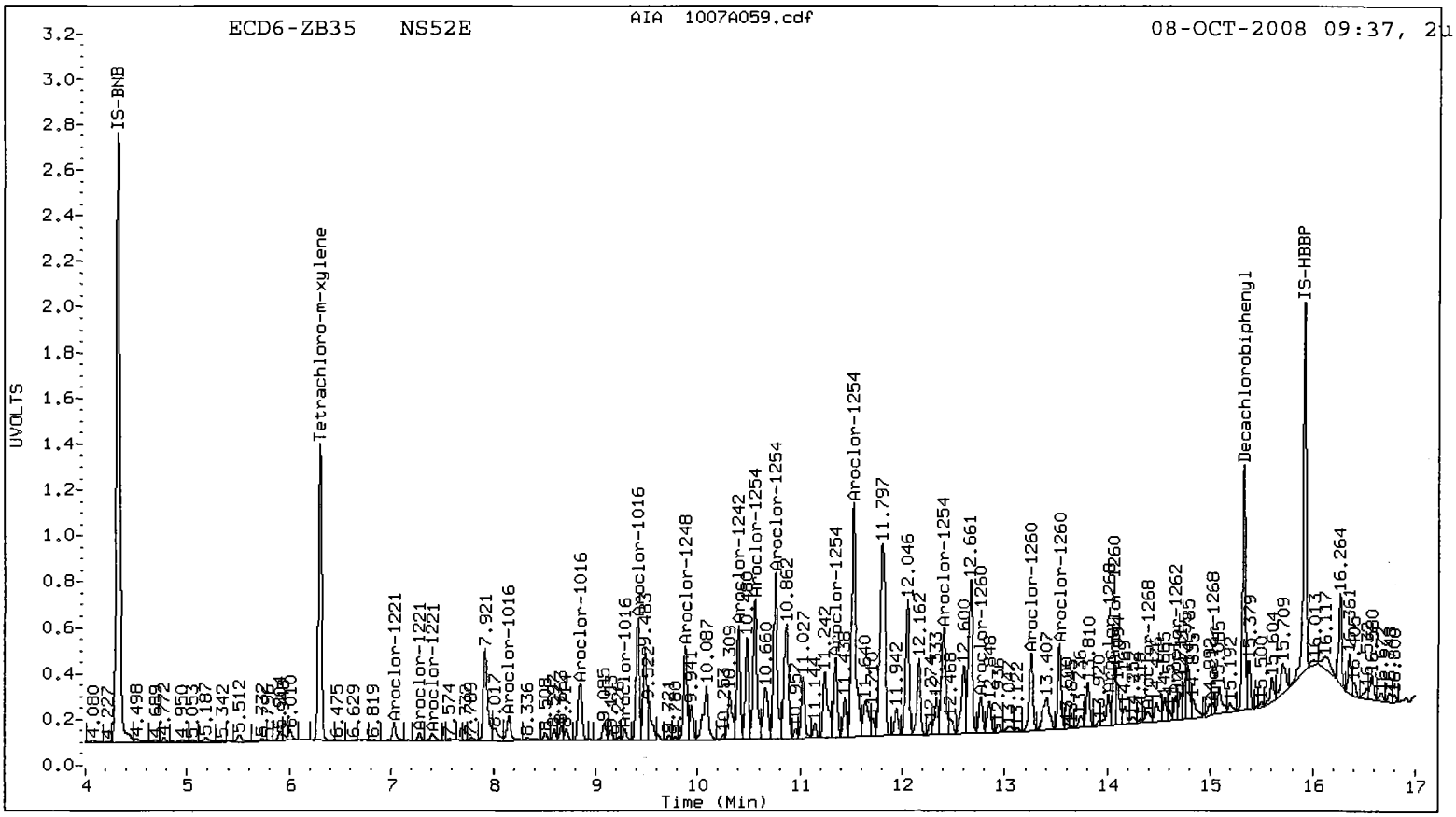
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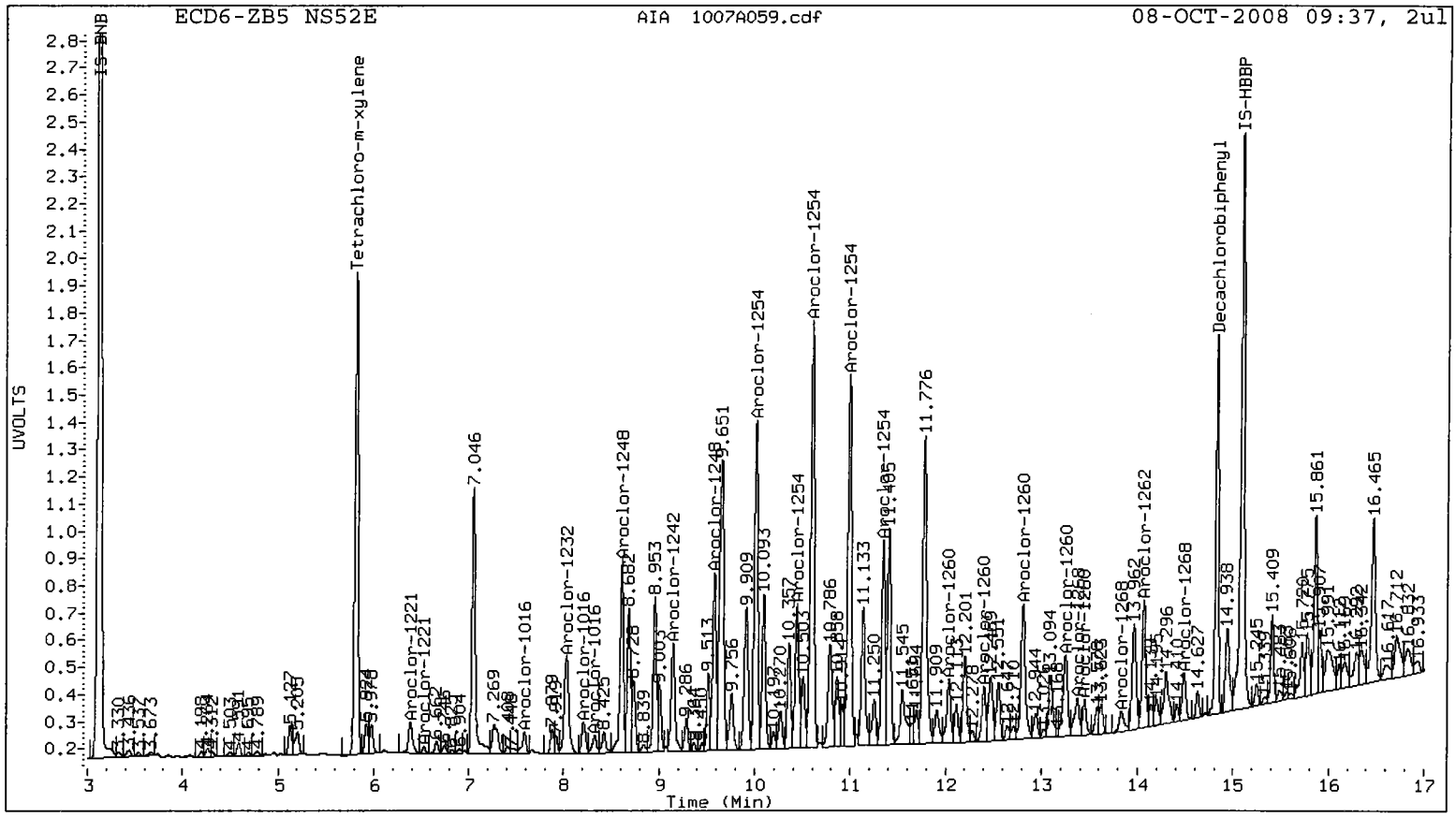
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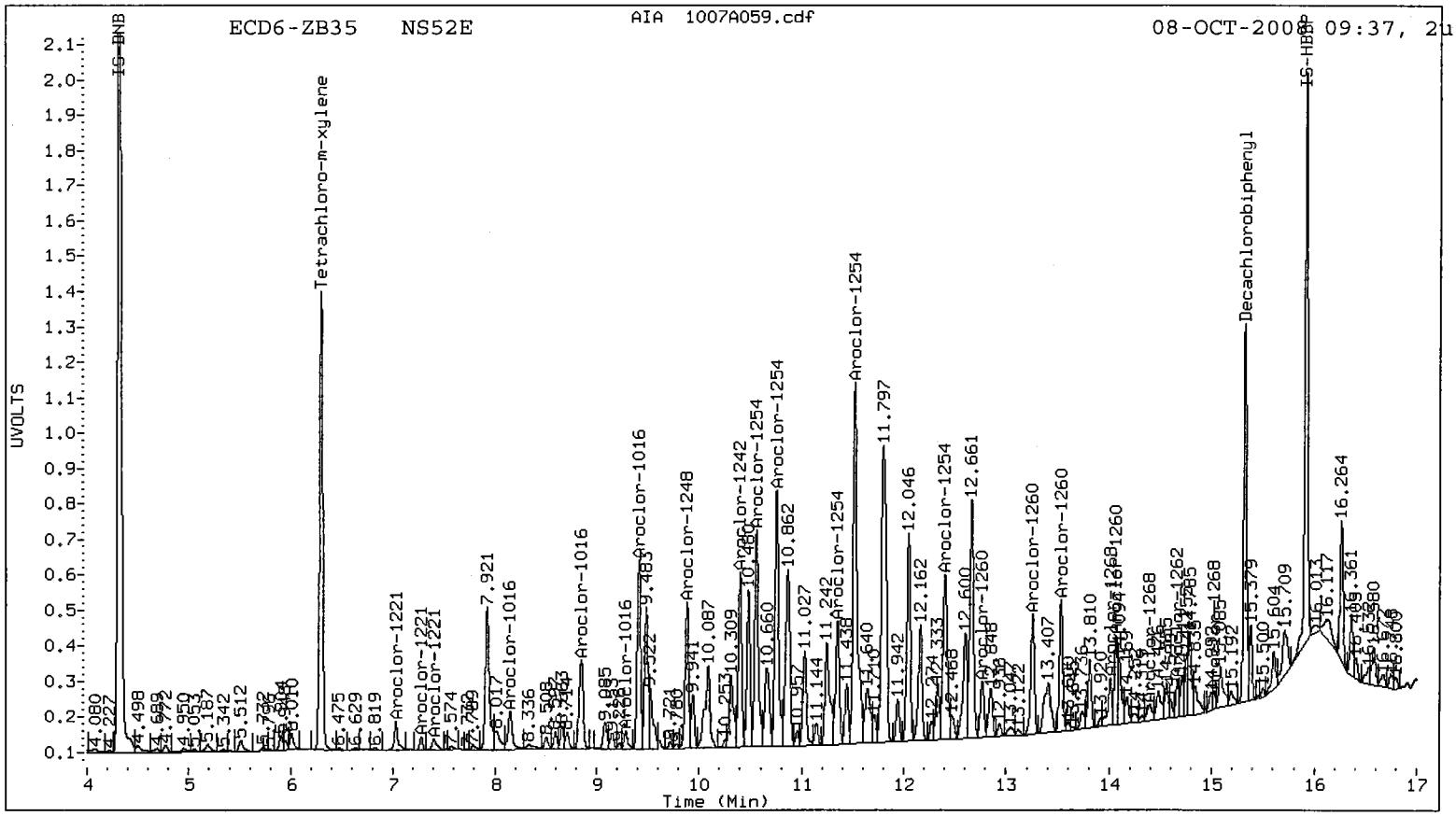
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Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP

PCB Analysis
Standard Raw Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NOS: NS52

prepared
by

Analytical Resources, Inc.

8082 INITIAL CALIBRATION OF AROCLOR 1016/1260

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR EVIRONMENTAL

ARI Job No.: NS52 Project: EDDON BOATYARD

GC Column: ZB5 Instrument ID: ECD6

Calibration Date: 10/06/08

SURROGATES

	RT WIN	LVL1	LVL2	LVL3	LVL4	LVL5	MEAN	%RSD
TCX	5.72- 5.92	1.3594	1.2104	1.1594	1.1358	1.0477	1.1825	9.7
DCB	14.72-14.92	2.4341	2.0152	1.8470	1.7404	1.5361	1.9145	17.7

Aroclor-1016 Peak	RT WIN	LVL1 .02	LVL2 0.1	LVL3 .25	LVL4 0.5	LVL5 1.0	MEAN	%RSD
1	7.49- 7.69	0.0406	0.0352	0.0319	0.0301	0.0270	0.0330	15.8
2	8.10- 8.30	0.0506	0.0447	0.0403	0.0380	0.0342	0.0416	15.2
3	8.23- 8.43	0.0321	0.0297	0.0271	0.0257	0.0233	0.0276	12.4

AROCLOR AVERAGE %RSD = 14.5

Aroclor-1260 Peak	RT WIN	LVL1 .02	LVL2 0.1	LVL3 .25	LVL4 0.5	LVL5 1.0	MEAN	%RSD
1	11.94-12.14	0.1128	0.0994	0.0898	0.0849	0.0757	0.0925	15.4
2	12.30-12.50	0.1134	0.0986	0.0898	0.0853	0.0768	0.0928	15.0
3	12.71-12.91	0.2685	0.2228	0.2056	0.1991	0.1784	0.2149	15.8
4	13.16-13.36	0.1372	0.1205	0.1109	0.1068	0.0970	0.1145	13.3
5	13.35-13.55	0.0673	0.0579	0.0526	0.0498	0.0446	0.0544	15.9

AROCLOR AVERAGE %RSD = 15.1

8082 INITIAL CALIBRATION OF AROCLOR 1016/1260

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR EVIRONMENTAL

ARI Job No.: NS52 Project: EDDON BOATYARD

GC Column: ZB35 Instrument ID: ECD6

Calibration Date: 10/06/08

SURROGATES

	RT WIN	LVL1	LVL2	LVL3	LVL4	LVL5	MEAN	%RSD
TCX	6.20- 6.40	1.4511	1.2967	1.2493	1.2267	1.1272	1.2702	9.3
DCB	15.22-15.42	2.6267	2.2212	2.0217	1.9224	1.7071	2.0998	16.6

Aroclor-1016 Peak	RT WIN	LVL1 .02	LVL2 0.1	LVL3 .25	LVL4 0.5	LVL5 1.0	MEAN	%RSD
1	8.05- 8.25	0.0696	0.0614	0.0569	0.0528	0.0461	0.0574	15.4
2	8.75- 8.95	0.1342	0.1158	0.1067	0.1010	0.0901	0.1096	15.2
3	9.19- 9.39	0.0295	0.0286	0.0269	0.0256	0.0231	0.0267	9.5
4	9.31- 9.51	0.0409	0.0375	0.0344	0.0322	0.0284	0.0347	13.8

AROCLOR AVERAGE %RSD = 13.5

Aroclor-1260 Peak	RT WIN	LVL1 .02	LVL2 0.1	LVL3 .25	LVL4 0.5	LVL5 1.0	MEAN	%RSD
1	12.67-12.87	0.1232	0.1107	0.0999	0.0952	0.0842	0.1026	14.5
2	13.16-13.36	0.1434	0.1299	0.1192	0.1140	0.1015	0.1216	13.1
3	13.43-13.63	0.2771	0.2497	0.2311	0.2229	0.1996	0.2361	12.3
4	13.97-14.17	0.1925	0.1708	0.1571	0.1512	0.1357	0.1615	13.3

AROCLOR AVERAGE %RSD = 13.3

6G
8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR EVIRONMENTAL

ARI Job No.: NS52 Project: EDDON BOATYARD

GC Column: ZB5 Instrument ID: ECD6

Calibration Date: 10/06/08

Aroclor-1221			
Peak	RT	RT WIN	Cal Factor
1	6.236	6.14- 6.34	0.01347
2	6.424	6.32- 6.52	0.00867
3	6.528	6.43- 6.63	0.03085

Aroclor-1232			
Peak	RT	RT WIN	Cal Factor
1	6.528	6.43- 6.63	0.02673
2	7.588	7.49- 7.69	0.01362
3	8.028	7.93- 8.13	0.04165
4	8.201	8.10- 8.30	0.01749

Aroclor-1242			
Peak	RT	RT WIN	Cal Factor
1	7.591	7.49- 7.69	0.02405
2	8.030	7.93- 8.13	0.07310
3	8.203	8.10- 8.30	0.03071
4	9.149	9.05- 9.25	0.02847

Aroclor-1248			
Peak	RT	RT WIN	Cal Factor
1	8.028	7.93- 8.13	0.05402
2	8.608	8.51- 8.71	0.03414
3	9.146	9.05- 9.25	0.04356
4	9.573	9.47- 9.67	0.04456

6G

8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR EVIRONMENTAL

ARI Job No.: NS52 Project: EDDON BOATYARD

GC Column: ZB5 Instrument ID: ECD6

Calibration Date: 10/06/08

Aroclor-1254			
Peak	RT	RT WIN	Cal Factor
1	10.011	9.91-10.11	0.07162
2	10.439	10.34-10.54	0.04421
3	10.596	10.50-10.70	0.08224
4	10.989	10.89-11.09	0.08576
5	11.347	11.25-11.45	0.03508

Aroclor-1262			
Peak	RT	RT WIN	Cal Factor
1	12.399	12.30-12.50	0.12190
2	12.811	12.71-12.91	0.26573
3	13.255	13.16-13.36	0.09023
4	13.447	13.35-13.55	0.11236
5	14.073	13.97-14.17	0.09277

Aroclor-1268			
Peak	RT	RT WIN	Cal Factor
1	13.374	13.27-13.47	0.30242
2	13.445	13.34-13.54	0.26882
3	13.819	13.72-13.92	0.22746
4	14.500	14.40-14.60	0.64999

6G

8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR EVIRONMENTAL

ARI Job No.: NS52 Project: EDDON BOATYARD

GC Column: ZB35 Instrument ID: ECD6

Calibration Date: 10/06/08

Aroclor-1221			
Peak	RT	RT WIN	Cal Factor
1	7.020	6.92- 7.12	0.01549
2	7.279	7.18- 7.38	0.00905
3	7.395	7.29- 7.49	0.02908
4	8.155	8.05- 8.25	0.01032

Aroclor-1232			
Peak	RT	RT WIN	Cal Factor
1	7.395	7.29- 7.49	0.02551
2	8.148	8.05- 8.25	0.02559
3	8.848	8.75- 8.95	0.04475
4	9.283	9.18- 9.38	0.01126

Aroclor-1242			
Peak	RT	RT WIN	Cal Factor
1	15.323	15.22-15.42	0.07634
2	8.850	8.75- 8.95	0.07893
3	9.287	9.19- 9.39	0.01996
4	9.414	9.31- 9.51	0.02475
5	10.399	10.30-10.50	0.02657

Aroclor-1248			
Peak	RT	RT WIN	Cal Factor
1	8.848	8.75- 8.95	0.05903
2	9.411	9.31- 9.51	0.04017
3	9.881	9.78- 9.98	0.04441
4	10.398	10.30-10.50	0.04782

6G

8082 INITIAL CALIBRATION OF SINGLE POINT PCBs

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR EVIRONMENTAL

ARI Job No.: NS52 Project: EDDON BOATYARD

GC Column: ZB35 Instrument ID: ECD6

Calibration Date: 10/06/08

Aroclor-1254			
Peak	RT	RT WIN	Cal Factor
1	10.559	10.46-10.66	0.04792
2	10.757	10.66-10.86	0.05963
3	11.351	11.25-11.45	0.04379
4	11.521	11.42-11.62	0.09572
5	12.405	12.31-12.51	0.05650

Aroclor-1262			
Peak	RT	RT WIN	Cal Factor
1	12.762	12.66-12.86	0.16778
2	13.258	13.16-13.36	0.15475
3	13.529	13.43-13.63	0.29090
4	14.064	13.96-14.16	0.19788
5	14.660	14.56-14.76	0.10743

Aroclor-1268			
Peak	RT	RT WIN	Cal Factor
1	14.006	13.91-14.11	0.32507
2	14.064	13.96-14.16	0.30011
3	14.396	14.30-14.50	0.24571
4	15.024	14.92-15.12	0.69946

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-OCT-2008 20:04
End Cal Date : 06-OCT-2008 23:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd6.i/20081006.B/PCB1.m
Cal Date : 07-Oct-2008 08:16 jrains
Curve Type : Average

Calibration File Names:
Level 1: /chem2/ecd6.i/20081006.B/ical-1.b/1006A016.d
Level 2: /chem2/ecd6.i/20081006.B/ical-1.b/1006A017.d
Level 3: /chem2/ecd6.i/20081006.B/ical-1.b/1006A018.d
Level 4: /chem2/ecd6.i/20081006.B/ical-1.b/1006A019.d
Level 5: /chem2/ecd6.i/20081006.B/ical-1.b/1006A020.d
Level 7: /chem2/ecd6.i/20081006.B/ical-1.b/1006A026.d

Compound	20.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	250.000 Level 7	RRF	% RSD
2 Aroclor-1221(1)	+++++	+++++	+++++	+++++	+++++	0.01347	0.01347	0.000
(2)	+++++	+++++	+++++	+++++	+++++	0.00867	0.00867	0.000
(3)	+++++	+++++	+++++	+++++	+++++	0.03085	0.03085	0.000
3 Aroclor-1242(1)	+++++	+++++	+++++	+++++	+++++	0.02405	0.02405	0.000
(2)	+++++	+++++	+++++	+++++	+++++	0.07310	0.07310	0.000
(3)	+++++	+++++	+++++	+++++	+++++	0.03071	0.03071	0.000
(4)	+++++	+++++	+++++	+++++	+++++	0.02847	0.02847	0.000
4 Aroclor-1232(1)	+++++	+++++	+++++	+++++	+++++	0.02673	0.02673	0.000
(2)	+++++	+++++	+++++	+++++	+++++	0.01362	0.01362	0.000
(3)	+++++	+++++	+++++	+++++	+++++	0.04165	0.04165	0.000
(4)	+++++	+++++	+++++	+++++	+++++	0.01749	0.01749	0.000
7 Aroclor-1016(1)	0.04060	0.03523	0.03194	0.03006	0.02698	+++++	0.03296	15.824
(2)	0.05060	0.04474	0.04030	0.03800	0.03417	+++++	0.04156	15.247
(3)	0.03208	0.02973	0.02711	0.02572	0.02329	+++++	0.02759	12.430
6 Aroclor-1248(1)	+++++	+++++	+++++	+++++	+++++	0.05402	0.05402	0.000
(2)	+++++	+++++	+++++	+++++	+++++	0.03414	0.03414	0.000
(3)	+++++	+++++	+++++	+++++	+++++	0.04356	0.04356	0.000
(4)	+++++	+++++	+++++	+++++	+++++	0.04456	0.04456	0.000
8 Aroclor-1254(1)	+++++	+++++	+++++	+++++	+++++	0.07162	0.07162	0.000
(2)	+++++	+++++	+++++	+++++	+++++	0.04421	0.04421	0.000
(3)	+++++	+++++	+++++	+++++	+++++	0.08224	0.08224	0.000

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-OCT-2008 20:04
End Cal Date : 06-OCT-2008 23:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd6.i/20081006.B/PCB1.m
Cal Date : 07-Oct-2008 08:16 jrains
Curve Type : Average

Compound	20.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	250.000 Level 7	___ RRF	% RSD
(4)	+++++	+++++	+++++	+++++	+++++	0.08576	0.08576	0.000
(5)	+++++	+++++	+++++	+++++	+++++	0.03508	0.03508	0.000
9 Aroclor-1260(1)	0.11279	0.09944	0.08978	0.08488	0.07566	+++++	0.09251	15.373
(2)	0.11336	0.09856	0.08978	0.08534	0.07676	+++++	0.09276	15.037
(3)	0.26851	0.22276	0.20558	0.19911	0.17843	+++++	0.21488	15.786
(4)	0.13716	0.12046	0.11091	0.10681	0.09704	+++++	0.11448	13.290
(5)	0.06728	0.05790	0.05256	0.04979	0.04457	+++++	0.05442	15.901
10 Aroclor-1262(1)	+++++	+++++	+++++	+++++	+++++	0.12190	0.12190	0.000
(2)	+++++	+++++	+++++	+++++	+++++	0.26573	0.26573	0.000
(3)	+++++	+++++	+++++	+++++	+++++	0.09023	0.09023	0.000
(4)	+++++	+++++	+++++	+++++	+++++	0.11236	0.11236	0.000
(5)	+++++	+++++	+++++	+++++	+++++	0.09277	0.09277	0.000
11 Aroclor-1268(1)	+++++	+++++	+++++	+++++	+++++	0.30242	0.30242	0.000
(2)	+++++	+++++	+++++	+++++	+++++	0.26882	0.26882	0.000
(3)	+++++	+++++	+++++	+++++	+++++	0.22746	0.22746	0.000
(4)	+++++	+++++	+++++	+++++	+++++	0.64999	0.64999	0.000
42 4,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 4,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 4,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
47 2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	1.35943	1.21043	1.15936	1.13578	1.04765	+++++	1.18253	9.733
$ 13 Decachlorobiphenyl	2.43406	2.01517	1.84697	1.74044	1.53608	+++++	1.91454	17.677

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-OCT-2008 20:04
End Cal Date : 06-OCT-2008 23:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd6.i/20081006.B/PCB2.m
Cal Date : 07-Oct-2008 08:04 jrains
Curve Type : Average

Calibration File Names:
Level 1: /chem2/ecd6.i/20081006.B/ical-2.b/1006A016.d
Level 2: /chem2/ecd6.i/20081006.B/ical-2.b/1006A017.d
Level 3: /chem2/ecd6.i/20081006.B/ical-2.b/1006A018.d
Level 4: /chem2/ecd6.i/20081006.B/ical-2.b/1006A019.d
Level 5: /chem2/ecd6.i/20081006.B/ical-2.b/1006A020.d
Level 7: /chem2/ecd6.i/20081006.B/ical-2.b/1006A026.d

Compound	20.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	250.000 Level 7	___ RRF	% RSD
1 Aroclor-1221(1)	+++++	+++++	+++++	+++++	+++++	0.01549	0.01549	0.000
(2)	+++++	+++++	+++++	+++++	+++++	0.00905	0.00905	0.000
(3)	+++++	+++++	+++++	+++++	+++++	0.02908	0.02908	0.000
(4)	+++++	+++++	+++++	+++++	+++++	0.01032	0.01032	0.000
4 Aroclor-1232(1)	+++++	+++++	+++++	+++++	+++++	0.02551	0.02551	0.000
(2)	+++++	+++++	+++++	+++++	+++++	0.02559	0.02559	0.000
(3)	+++++	+++++	+++++	+++++	+++++	0.04475	0.04475	0.000
(4)	+++++	+++++	+++++	+++++	+++++	0.01126	0.01126	0.000
3 Aroclor-1242(1)	+++++	+++++	+++++	+++++	+++++	0.07634	0.07634	0.000
(2)	+++++	+++++	+++++	+++++	+++++	0.07893	0.07893	0.000
(3)	+++++	+++++	+++++	+++++	+++++	0.01996	0.01996	0.000
(4)	+++++	+++++	+++++	+++++	+++++	0.02475	0.02475	0.000
(5)	+++++	+++++	+++++	+++++	+++++	0.02657	0.02657	0.000
6 Aroclor-1248(1)	+++++	+++++	+++++	+++++	+++++	0.05903	0.05903	0.000
(2)	+++++	+++++	+++++	+++++	+++++	0.04017	0.04017	0.000
(3)	+++++	+++++	+++++	+++++	+++++	0.04441	0.04441	0.000
(4)	+++++	+++++	+++++	+++++	+++++	0.04782	0.04782	0.000
7 Aroclor-1016(1)	0.06956	0.06140	0.05692	0.05285	0.04613	+++++	0.05737	15.390
(2)	0.13422	0.11577	0.10675	0.10101	0.09010	+++++	0.10957	15.181
(3)	0.02947	0.02860	0.02693	0.02565	0.02307	+++++	0.02674	9.453
(4)	0.04087	0.03748	0.03444	0.03220	0.02840	+++++	0.03468	13.817

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 06-OCT-2008 20:04
End Cal Date : 06-OCT-2008 23:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /chem2/ecd6.i/20081006.B/PCB2.m
Cal Date : 07-Oct-2008 08:04 jrains
Curve Type : Average

Compound	20.000 Level 1	100.000 Level 2	250.000 Level 3	500.000 Level 4	1000.000 Level 5	250.000 Level 7	RRF	% RSD
8 Aroclor-1254(1)	+++++	+++++	+++++	+++++	+++++	0.04792	0.04792	0.000
(2)	+++++	+++++	+++++	+++++	+++++	0.05963	0.05963	0.000
(3)	+++++	+++++	+++++	+++++	+++++	0.04379	0.04379	0.000
(4)	+++++	+++++	+++++	+++++	+++++	0.09572	0.09572	0.000
(5)	+++++	+++++	+++++	+++++	+++++	0.05650	0.05650	0.000
10 Aroclor-1262(1)	+++++	+++++	+++++	+++++	+++++	0.16778	0.16778	0.000
(2)	+++++	+++++	+++++	+++++	+++++	0.15475	0.15475	0.000
(3)	+++++	+++++	+++++	+++++	+++++	0.29090	0.29090	0.000
(4)	+++++	+++++	+++++	+++++	+++++	0.19788	0.19788	0.000
(5)	+++++	+++++	+++++	+++++	+++++	0.10743	0.10743	0.000
9 Aroclor-1260(1)	0.12315	0.11072	0.09987	0.09519	0.08420	+++++	0.10263	14.528
(2)	0.14340	0.12988	0.11917	0.11403	0.10152	+++++	0.12160	13.068
(3)	0.27708	0.24975	0.23111	0.22291	0.19964	+++++	0.23610	12.338
(4)	0.19248	0.17085	0.15712	0.15119	0.13572	+++++	0.16147	13.274
11 Aroclor-1268(1)	+++++	+++++	+++++	+++++	+++++	0.32507	0.32507	0.000
(2)	+++++	+++++	+++++	+++++	+++++	0.30011	0.30011	0.000
(3)	+++++	+++++	+++++	+++++	+++++	0.24571	0.24571	0.000
(4)	+++++	+++++	+++++	+++++	+++++	0.69946	0.69946	0.000
41 4,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 4,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 4,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 2 Tetrachloro-m-xylene	1.45107	1.29674	1.24932	1.22671	1.12718	+++++	1.27020	9.332
$ 13 Decachlorobiphenyl	2.62670	2.22124	2.02169	1.92239	1.70706	+++++	2.09982	16.569

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081006.B/ical-1.b/1006A015.d
Data file 2: 20081006.B/ical-2.b/1006A015.d
Method: /chem2/ecd6.i/20081006.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd6.i, 2ul
Quant Method: Internal Std

ARI ID: IB
Client ID:
Injection Date: 06-OCT-2008 19:42
Report Date: 10/07/2008 08:35
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.811	0.002	1377931	6.292	-0.001	725585	38.2	38.7	1.5	Tetrachloro-m-xylene
14.823	0.002	1120882	15.319	-0.057	555032	34.5	35.3	2.2	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	95.4	96.8
Decachlorobiphenyl	86.4	88.3

NL 10/07/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2417502	2443305	1.1
Hexabromobiphenyl	1336983	1355789	1.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1179079	1180215	0.1
Hexabromobiphenyl	604278	599002	-0.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

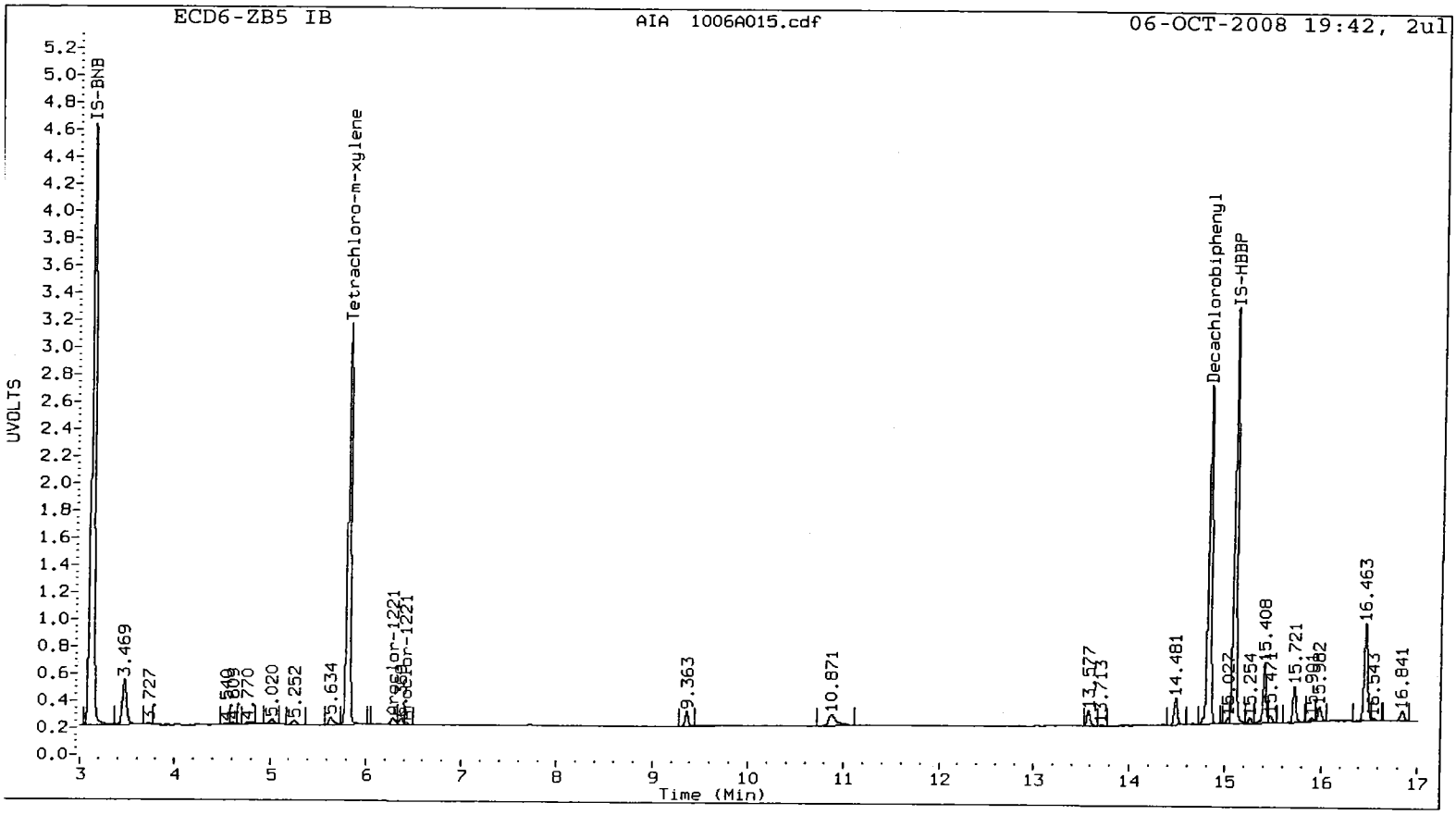
Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	NS	---			----	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	6.279	0.043	39974	97.2	1	7.015	-0.004	9234	40.4
Aroclor-1221	2	6.423	-0.001	9815	37.1	2	7.370	0.091	3020	22.6
Aroclor-1221	3	---			0.0	3	---			0.0
Aroclor-1221	NS	---			----	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
Aroclor-1242	NS	---			----	5	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
Aroclor-1262	5	---			0.0	5	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	14.477	0.082	1757	1.0
Aroclor-1268	4	---			0.0	4	15.017	-0.008	1084	0.2
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.909 - 14.721) = 372779 Col1 Total PCB = 0.0 ppm*

Total PCB Area Col2 (6.393 - 15.276) = 179539 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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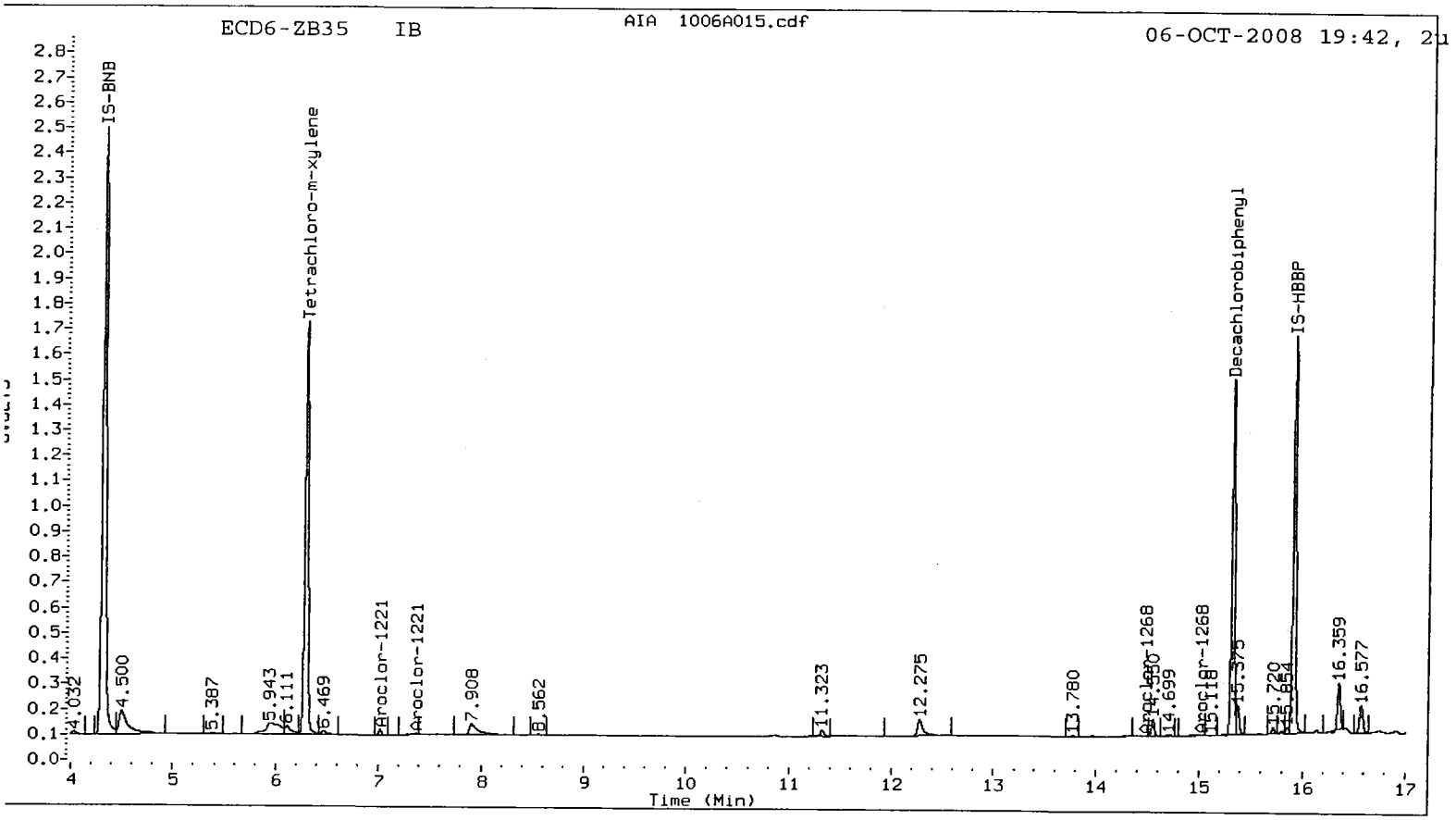
Tetrachloro-m-xylene
Decachlorobiphenyl
IS-HBBP
3.469
4.727
5.020
5.252
5.634
9.363
10.871
13.577
14.481
15.408
15.721
16.463
16.543
16.841
Time (Min)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Decachlorobiphenyl
IS-HBBP
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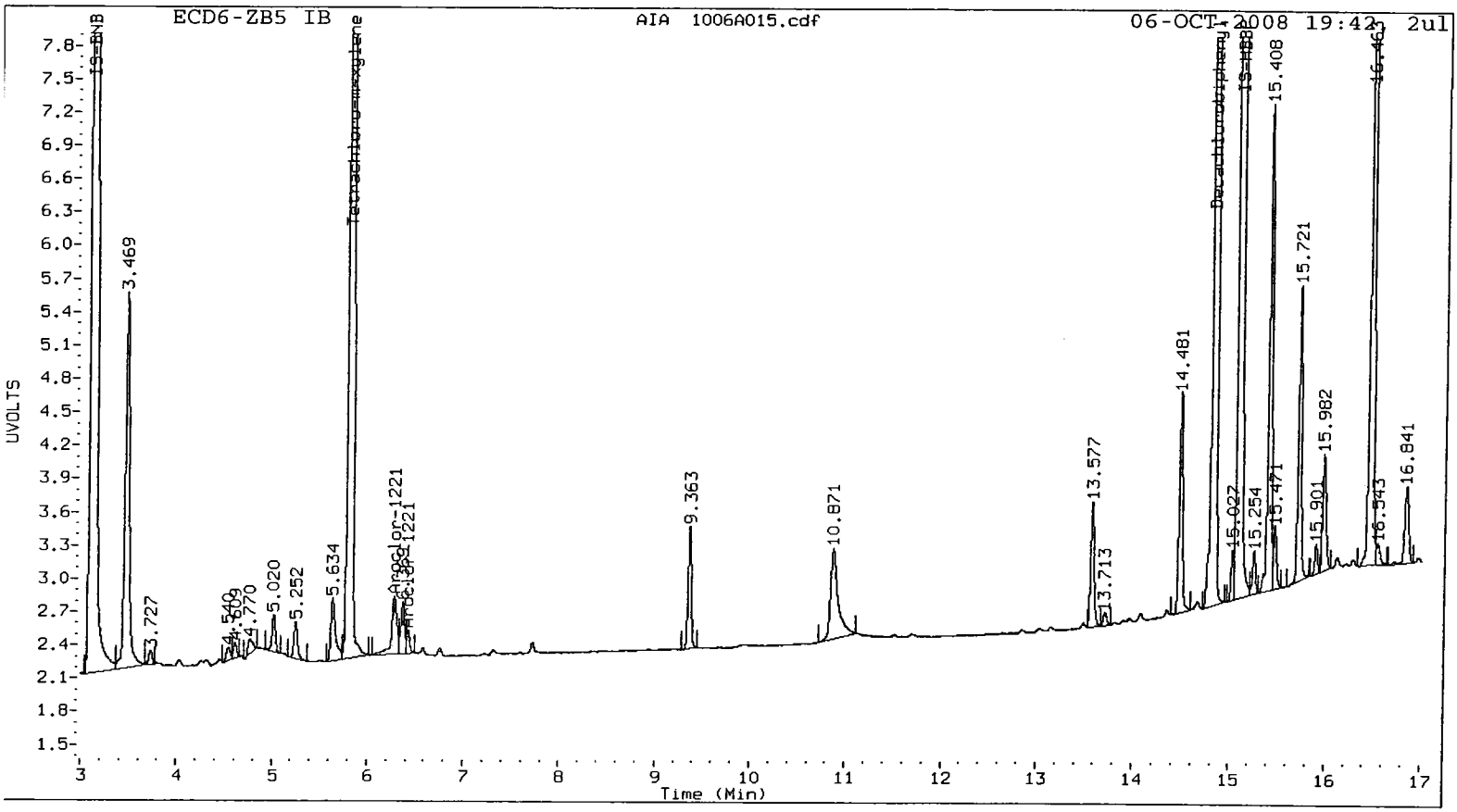
5.387
5.943
6.111
6.469
7.908
8.562
11.323
12.275
13.780
14.699
15.375
16.359
16.577
Time (Min)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AIA 1006A015.cdf
06-OCT-2008 19:42 2ul
UVOLTS
Time (Min)
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3.727
4.540
4.770
5.020
5.252
5.634
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1221
9.363
10.871
13.577
13.713
14.481
Decachlorobiphenyl
IS-HBB
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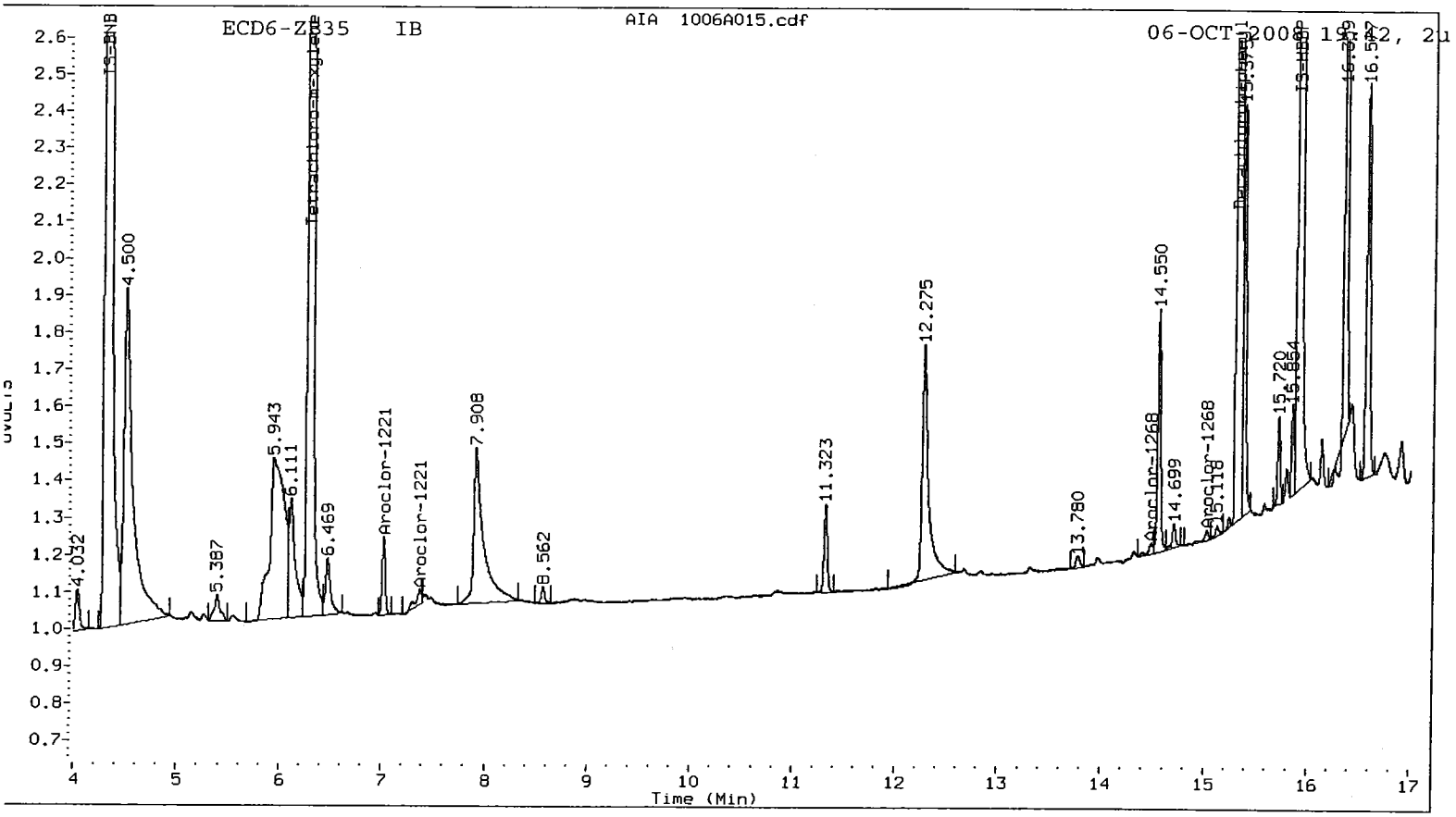
15.721
15.982
15.901
15.471
15.254
15.022
16.461
16.543
16.841


ECD6-ZB35 IB
AIA 1006A015.cdf
06-OCT-2008 19:42 2ul
UVOLTS
Time (Min)
IS-BNB
4.032
4.500
5.387
5.943
6.111
Tetrachloro-m-xylene
6.469
Aroclor-1221
Aroclor-1221
7.908
8.562
11.323
12.275
13.780
14.550
Aroclor-1268
14.699
Aroclor-1268
15.118
Decachlorobiphenyl
15.720
IS-HBB
16.543
16.582

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081006.B/ical-1.b/1006A016.d
Data file 2: 20081006.B/ical-2.b/1006A016.d
Method: /chem2/ecd6.i/20081006.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd6.i, 2ul
Quant Method: Internal Std

ARI ID: 1660 0.02
Client ID:
Injection Date: 06-OCT-2008 20:04
Report Date: 10/07/2008 08:35
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.812	0.004	67875	6.293	0.000	35388	1.8	1.8	0.6	Tetrachloro-m-xylene
14.823	0.002	66918	15.319	-0.056	31938	2.0	2.0	1.6	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	4.6	4.6
Decachlorobiphenyl	5.1	5.0

JC 10/07/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2417502	2496451	3.3
Hexabromobiphenyl	1336983	1374615	2.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1179079	1219379	3.4
Hexabromobiphenyl	604278	607950	0.6

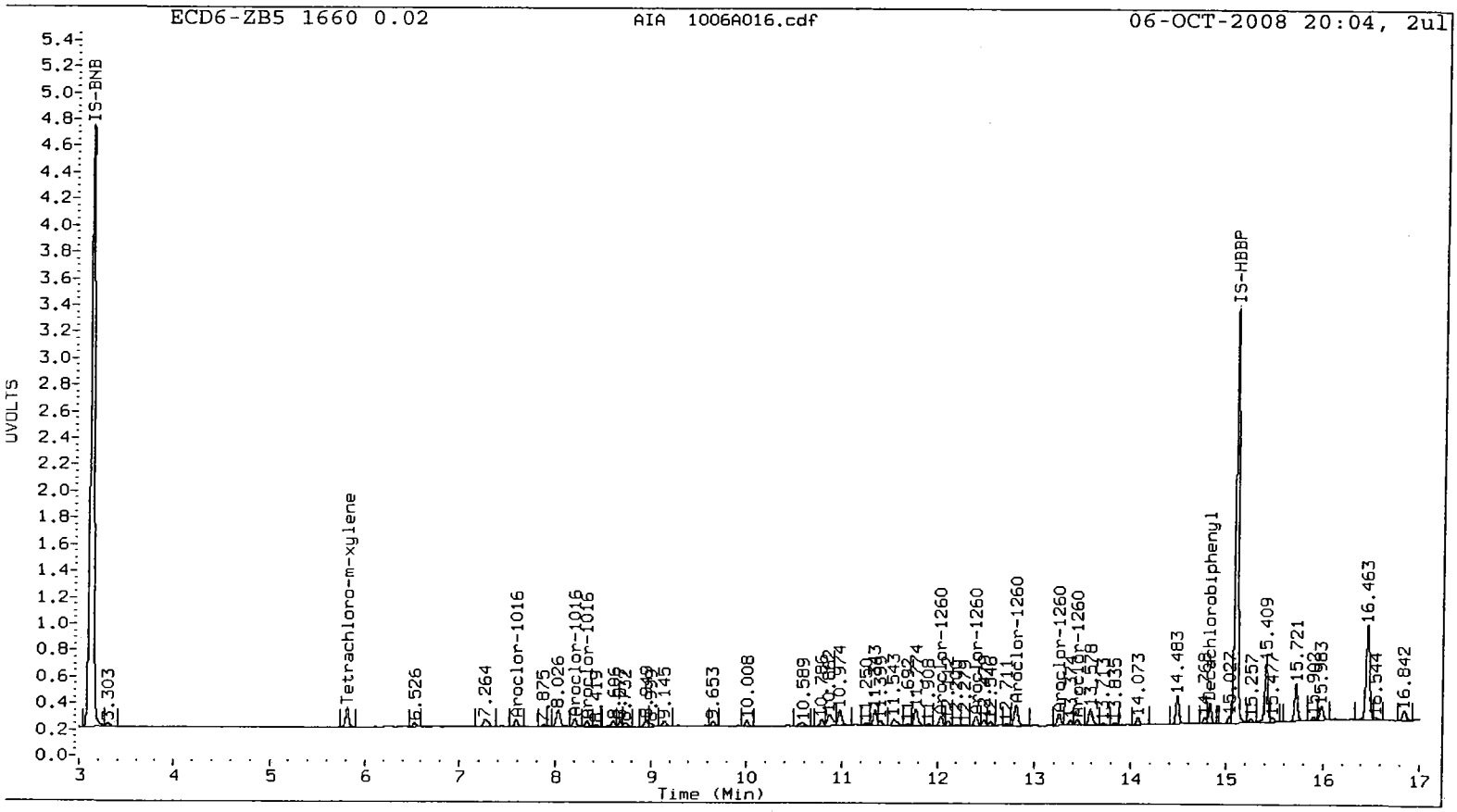
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.586	0.001	25341	24.6	1	8.147	0.001	21206	24.2
Aroclor-1016	2	8.199	0.001	31579	24.3	2	8.847	0.001	40917	24.5
Aroclor-1016	3	8.325	0.000	20023	23.3	3	9.282	0.000	8983	22.0
Aroclor-1016	NS	---			----	4	9.409	0.001	12460	23.6
	Total Col1Ave (3 peaks):				24.1	Total Col2Ave (4 peaks):				23.6 RPD = 2
	Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				23.3
Aroclor-1260	1	12.034	-0.001	38760	24.4	1	12.761	0.001	18718	24.0
Aroclor-1260	2	12.398	0.001	38957	24.4	2	13.257	0.001	21795	23.6
Aroclor-1260	3	12.811	0.002	92276	25.0	3	13.528	0.000	42113	23.5
Aroclor-1260	4	13.253	0.000	47136	24.0	4	14.061	0.000	29255	23.8
Aroclor-1260	5	13.447	0.000	23121	24.7	NS	---			----
	Total Col1Ave (5 peaks):				24.5	Total Col2Ave (4 peaks):				23.7 RPD = 3
	Corrected Ave (4 peaks):				24.4	Corrected Ave (3 peaks):				23.6 RPD = 3

Total PCB Area Col1 (5.909 - 14.721) = 1335408 Col1 Total PCB = 0.1 ppm*

Total PCB Area Col2 (6.393 - 15.276) = 636756 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical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Time (Min)
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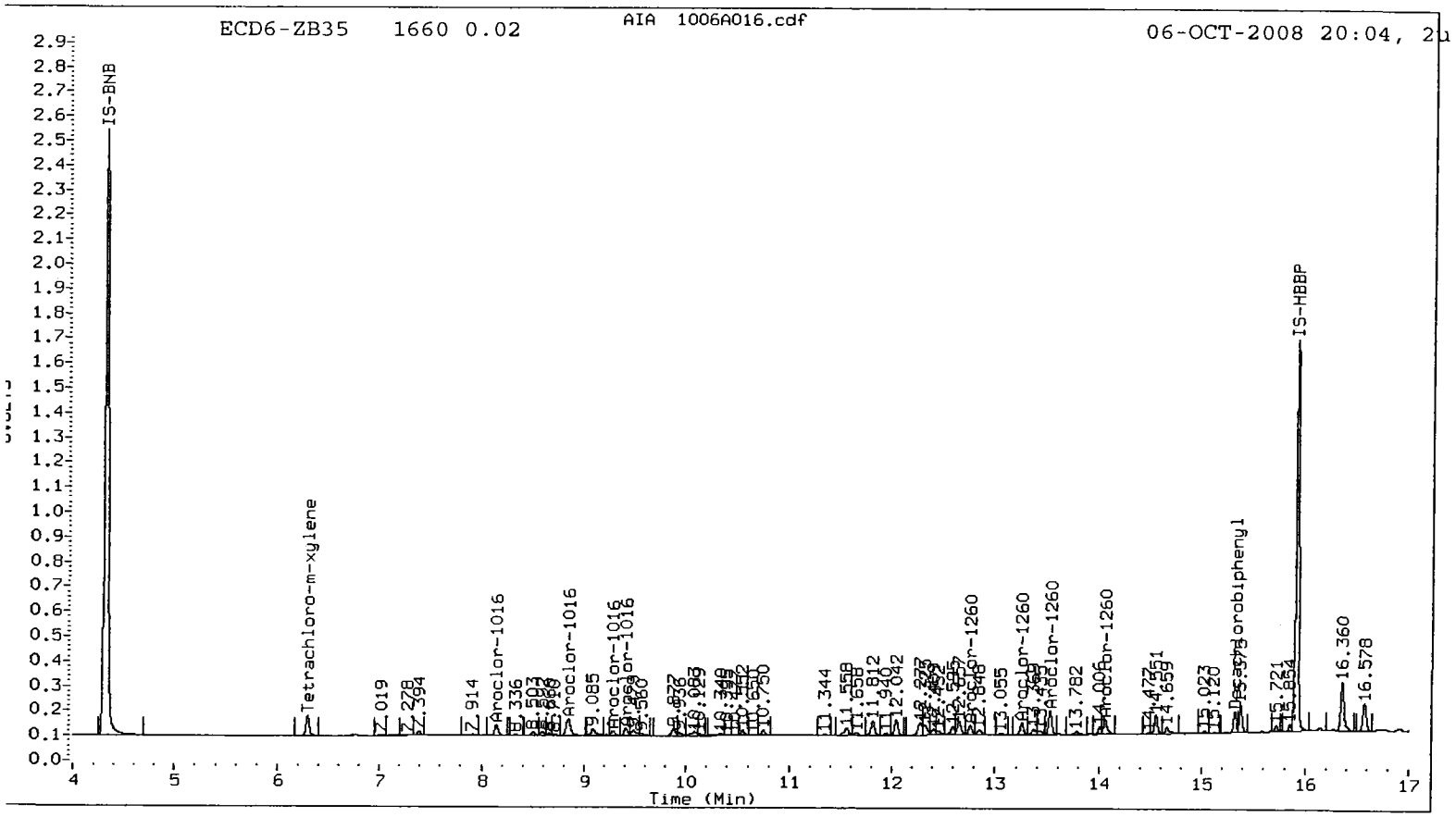
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
IS-HBBP
Decachlorobiphenyl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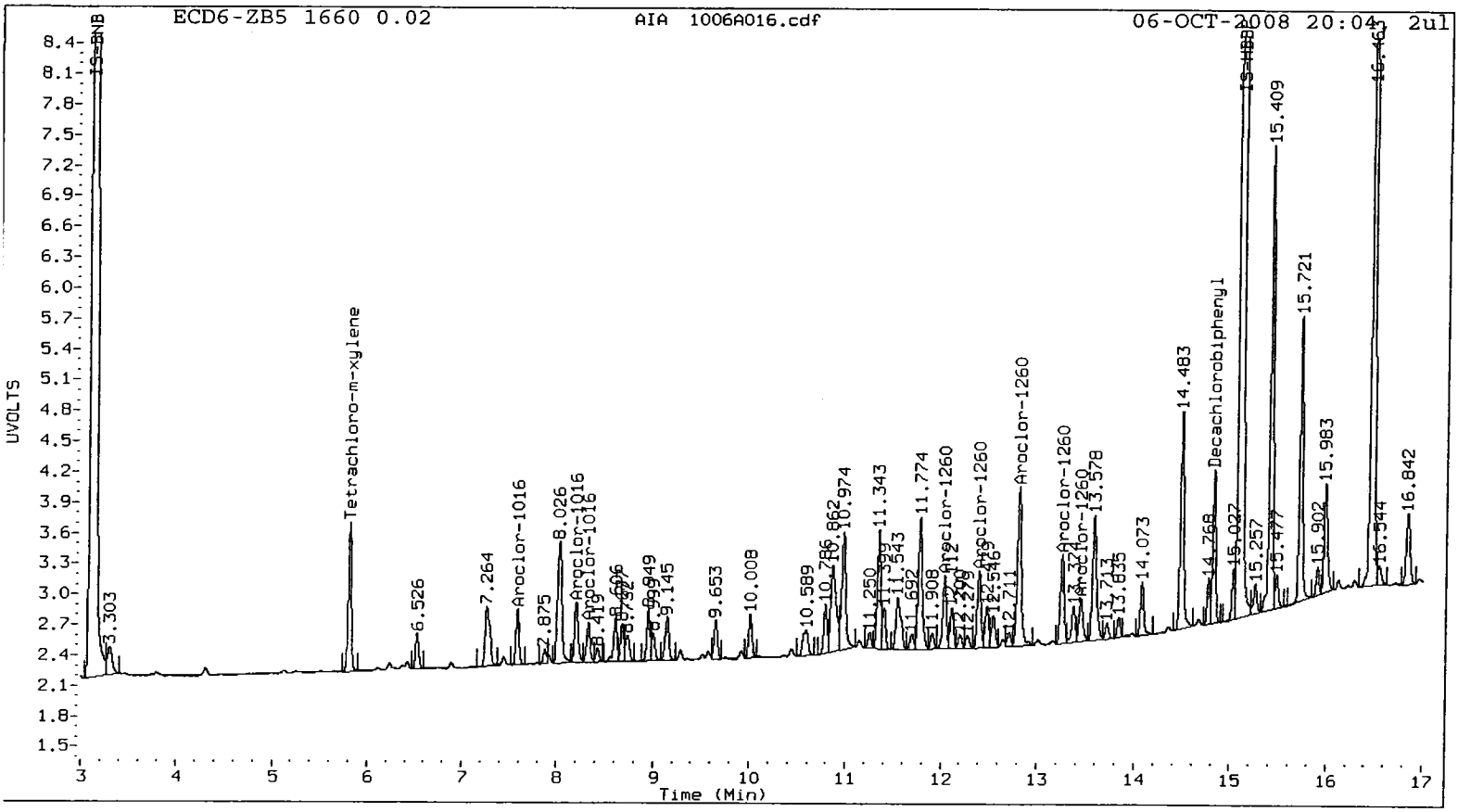
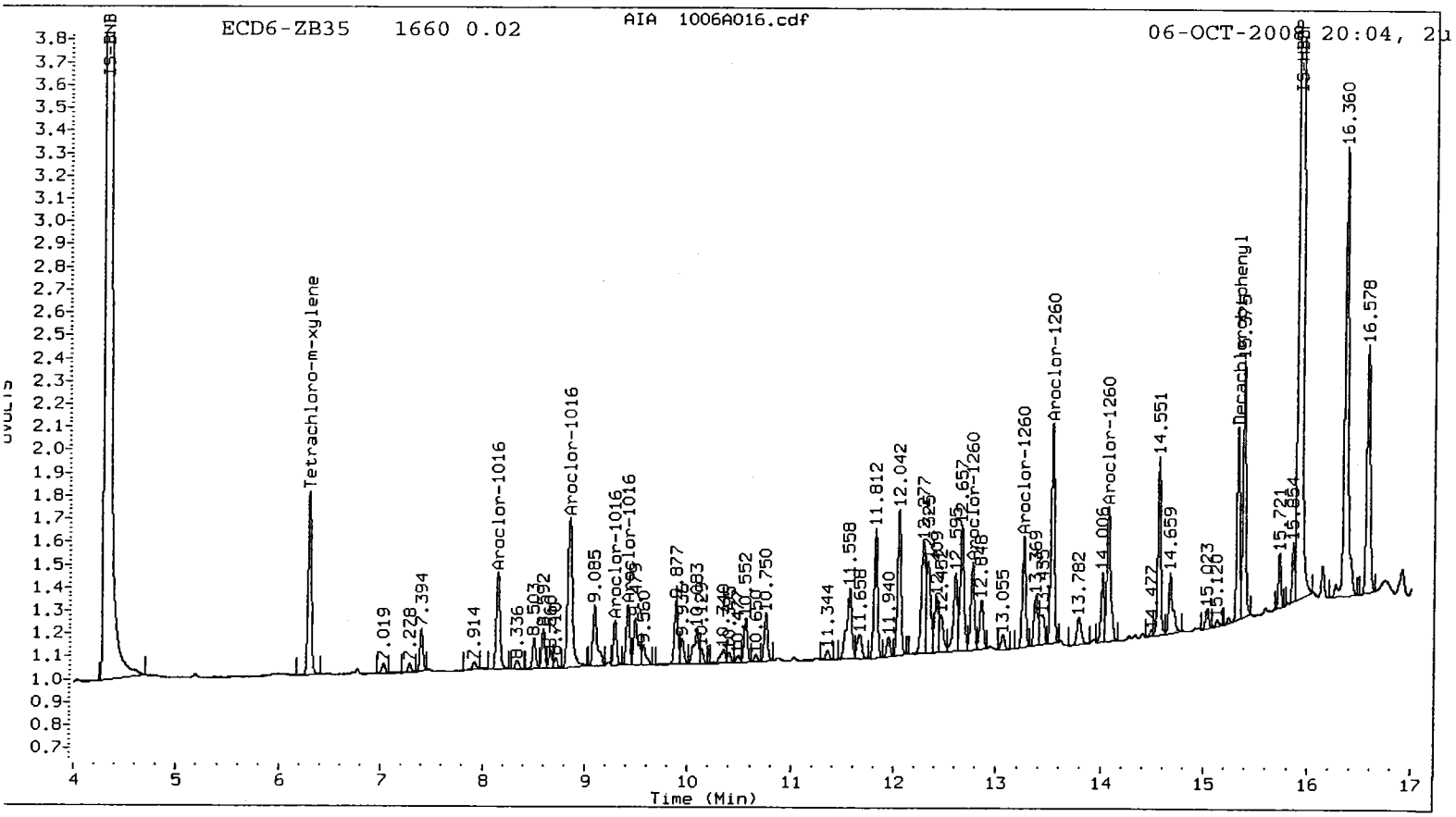
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
IS-HBBP
Decachlorobiphenyl


ECD6-ZB5 1660 0.02
AIA 1006A016.cdf
06-OCT-2008 20:04 2ul
UVOLTS
Time (Min)
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl


ECD6-ZB35 1660 0.02
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06-OCT-2008 20:04, 2u
UVOLTS
Time (Min)
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081006.B/ical-1.b/1006A017.d
Data file 2: 20081006.B/ical-2.b/1006A017.d
Method: /chem2/ecd6.i/20081006.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd6.i, 2ul
Quant Method: Internal Std

ARI ID: 1660 0.1
Client ID:
Injection Date: 06-OCT-2008 20:27
Report Date: 10/07/2008 08:35
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.812	0.003	291131	6.293	0.000	152877	8.2	8.2	0.3	Tetrachloro-m-xylene
14.824	0.003	267704	15.320	-0.056	131053	8.4	8.5	0.5	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	20.5	20.4
Decachlorobiphenyl	21.1	21.2

10/07/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2417502	2405192	-0.5
Hexabromobiphenyl	1336983	1328447	-0.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1179079	1178936	0.0
Hexabromobiphenyl	604278	589998	-2.4

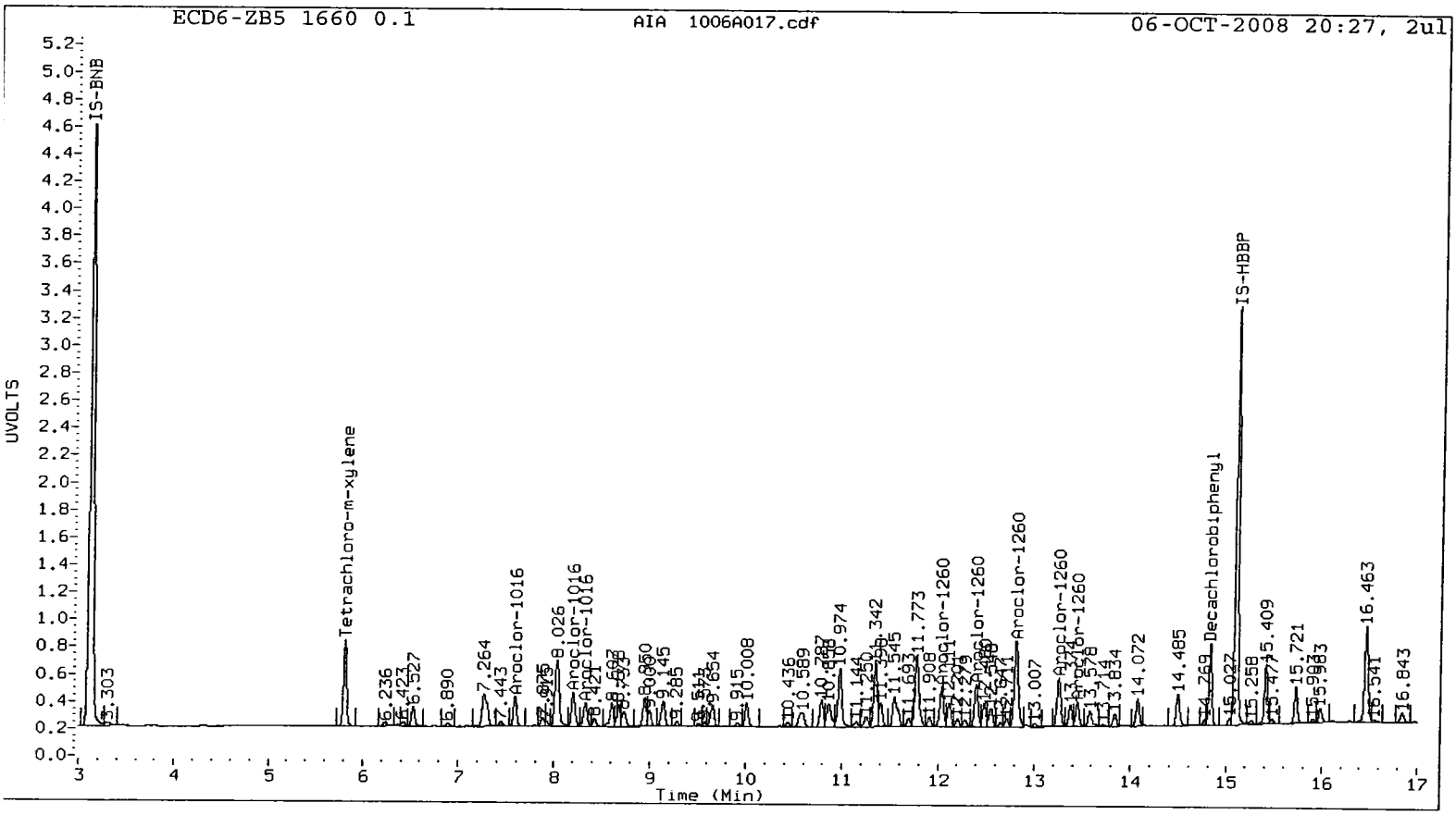
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.587	0.002	105933	106.9	1	8.146	0.000	90486	107.0
Aroclor-1016	2	8.200	0.001	134499	107.6	2	8.847	0.001	170600	105.7
Aroclor-1016	3	8.326	0.002	89395	107.8	3	9.283	0.001	42141	106.9
Aroclor-1016	NS	---			----	4	9.409	0.001	55240	108.1
	Total Col1Ave (3 peaks):				107.4	Total Col2Ave (4 peaks):				106.9 RPD = 0
	Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				106.5
Aroclor-1260	1	12.035	0.000	165130	107.5	1	12.761	0.000	81654	107.9
Aroclor-1260	2	12.398	0.000	163659	106.3	2	13.257	0.000	95785	106.8
Aroclor-1260	3	12.808	-0.001	369899	103.7	3	13.528	0.001	184187	105.8
Aroclor-1260	4	13.253	0.000	200035	105.2	4	14.060	0.000	126000	105.8
Aroclor-1260	5	13.447	0.001	96144	106.4	NS	---			----
	Total Col1Ave (5 peaks):				105.8	Total Col2Ave (4 peaks):				106.6 RPD = 1
	Corrected Ave (4 peaks):				105.4	Corrected Ave (3 peaks):				106.1 RPD = 1

Total PCB Area Col1 (5.909 - 14.721) = 5084782 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (6.393 - 15.276) = 2531435 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical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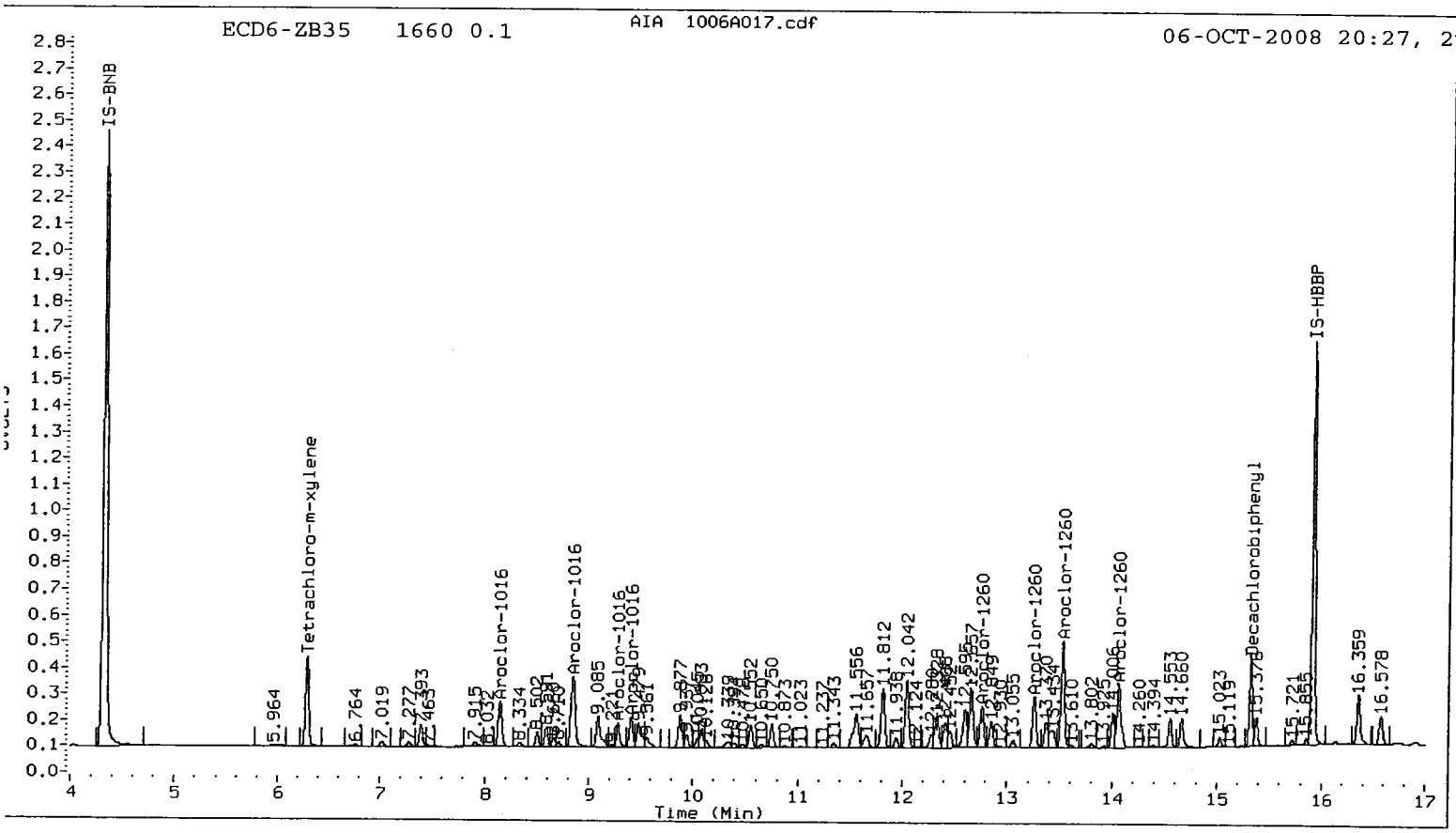
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP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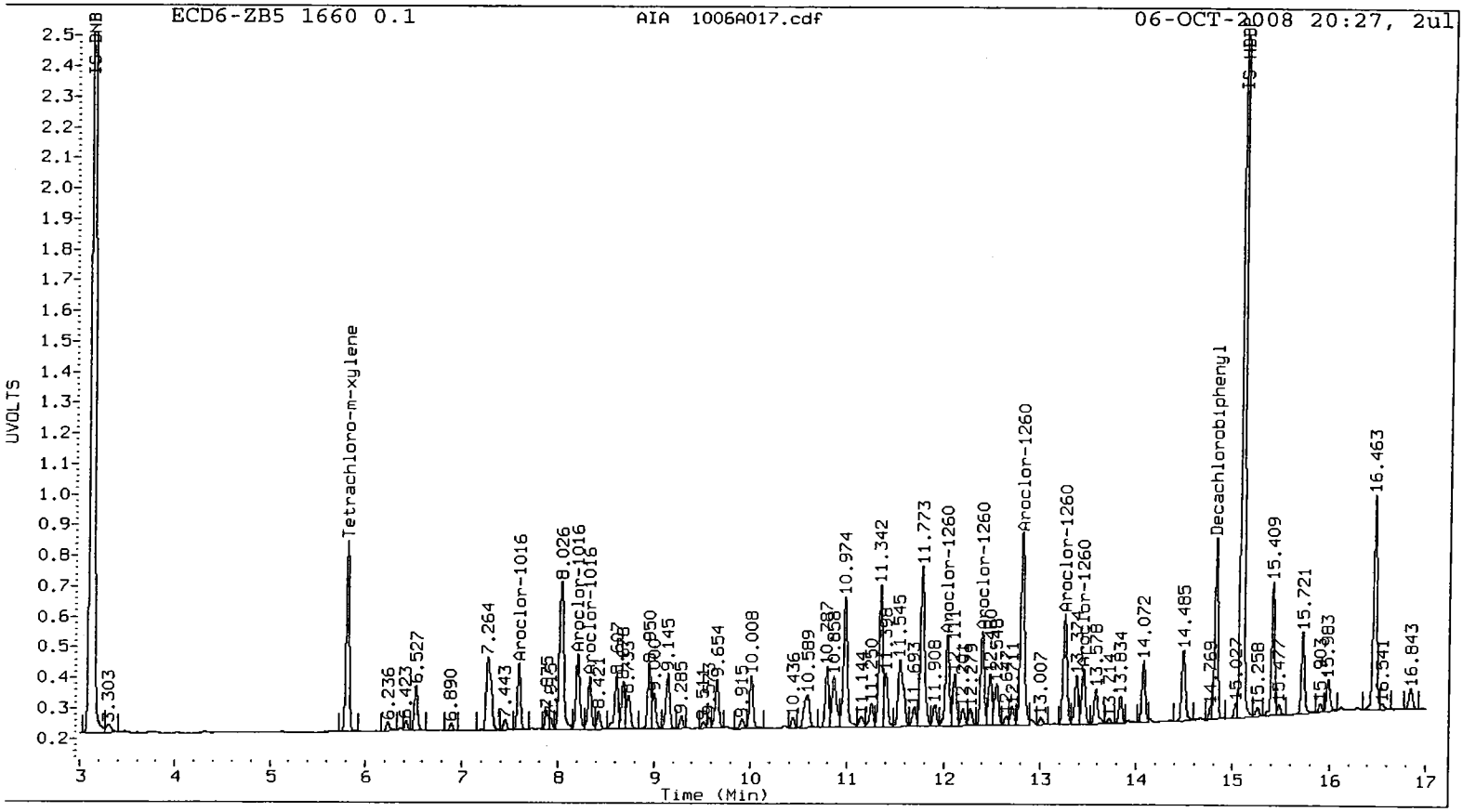
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP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Tetrachloro-m-xylene
Aroclor-1016
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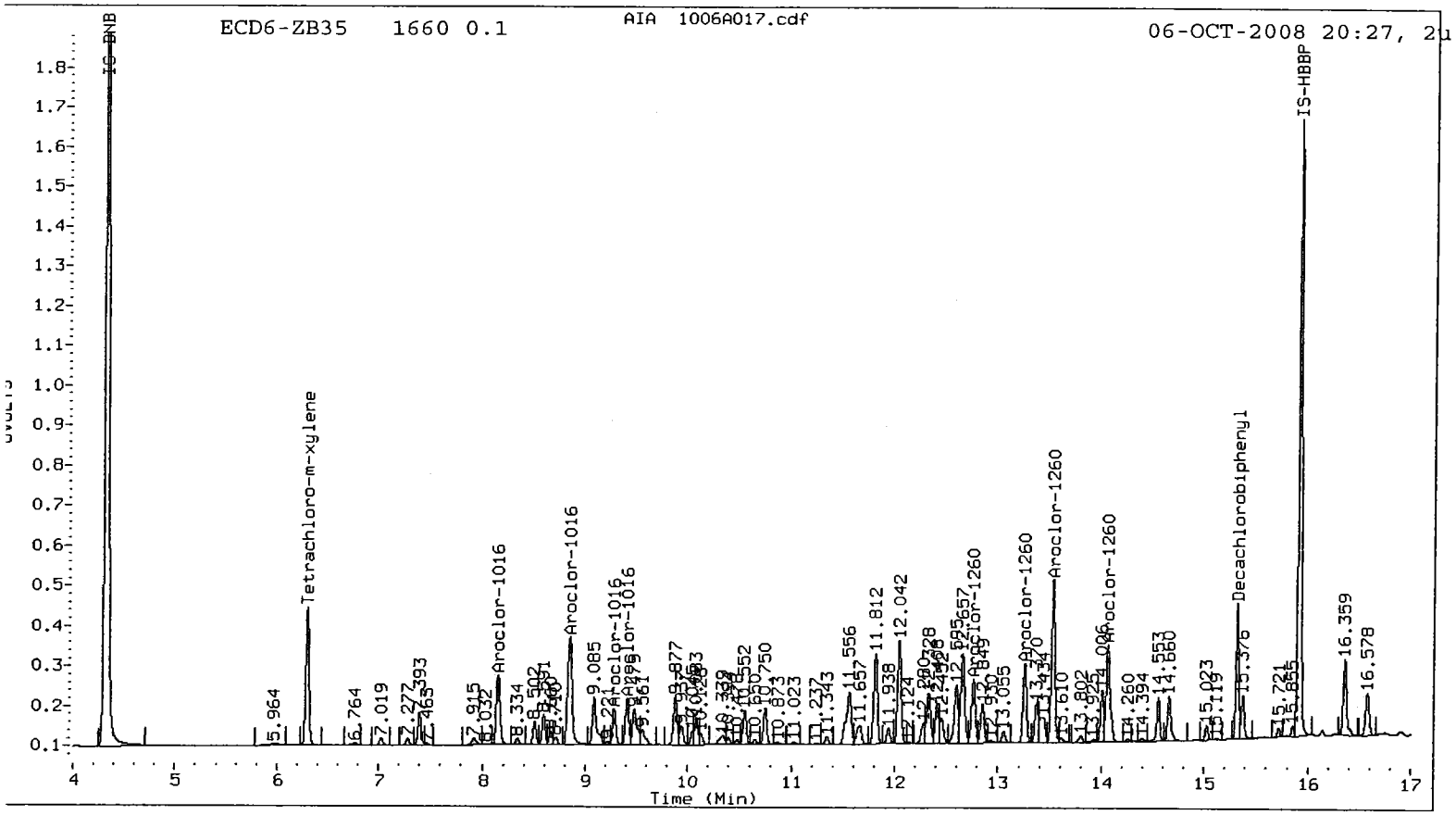
Decachlorobiphenyl
IS-HBBP
UVOLTS
Time (Min)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IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP
Time (Min)

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081006.B/ical-1.b/1006A018.d
Data file 2: 20081006.B/ical-2.b/1006A018.d
Method: /chem2/ecd6.i/20081006.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd6.i, 2ul
Quant Method: Internal Std

ARI ID: 1660 0.25
Client ID:
Injection Date: 06-OCT-2008 20:49
Report Date: 10/07/2008 08:35
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.813	0.004	700690	6.293	0.000	368261	19.6	19.7	0.3	Tetrachloro-m-xylene
14.824	0.002	617343	15.320	-0.056	305416	19.3	19.3	0.2	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	49.0	49.2
Decachlorobiphenyl	48.2	48.1

JC 10/07/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2417502	2417502	0.0
Hexabromobiphenyl	1336983	1336983	0.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1179079	1179079	0.0
Hexabromobiphenyl	604278	604278	0.0

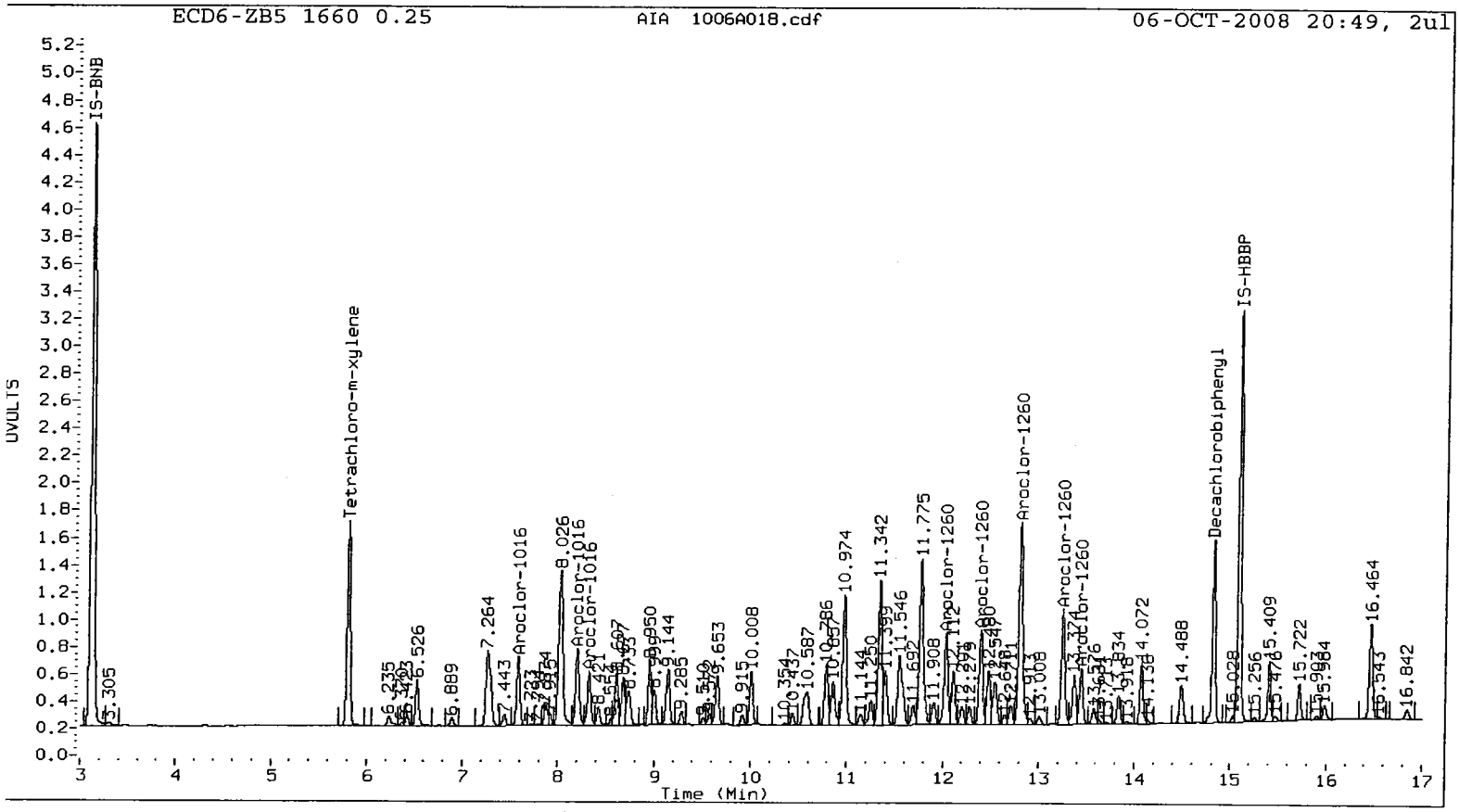
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.586	0.001	241281	242.2	1	8.146	0.000	209743	248.0
Aroclor-1016	2	8.200	0.001	304476	242.4	2	8.845	0.000	393323	243.6
Aroclor-1016	3	8.325	0.001	204802	245.7	3	9.282	0.000	99219	251.7
Aroclor-1016	NS	---			----	4	9.408	0.000	126888	248.3
	Total Col1Ave (3 peaks):				243.4	Total Col2Ave (4 peaks):			247.9	RPD = 2
	Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):			246.6	
Aroclor-1260	1	12.036	0.000	375115	242.6	1	12.761	0.000	188592	243.3
Aroclor-1260	2	12.398	0.001	375091	242.0	2	13.257	0.000	225034	245.0
Aroclor-1260	3	12.810	0.001	858919	239.2	3	13.528	0.001	436417	244.7
Aroclor-1260	4	13.254	0.001	463397	242.2	4	14.061	0.000	296696	243.3
Aroclor-1260	5	13.447	0.001	219620	241.5	NS	---			----
	Total Col1Ave (5 peaks):				241.5	Total Col2Ave (4 peaks):			244.1	RPD = 1
	Corrected Ave (4 peaks):				241.2	Corrected Ave (3 peaks):			243.8	RPD = 1

Total PCB Area Col1 (5.909 - 14.721) = 11361539 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (6.393 - 15.276) = 5835746 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical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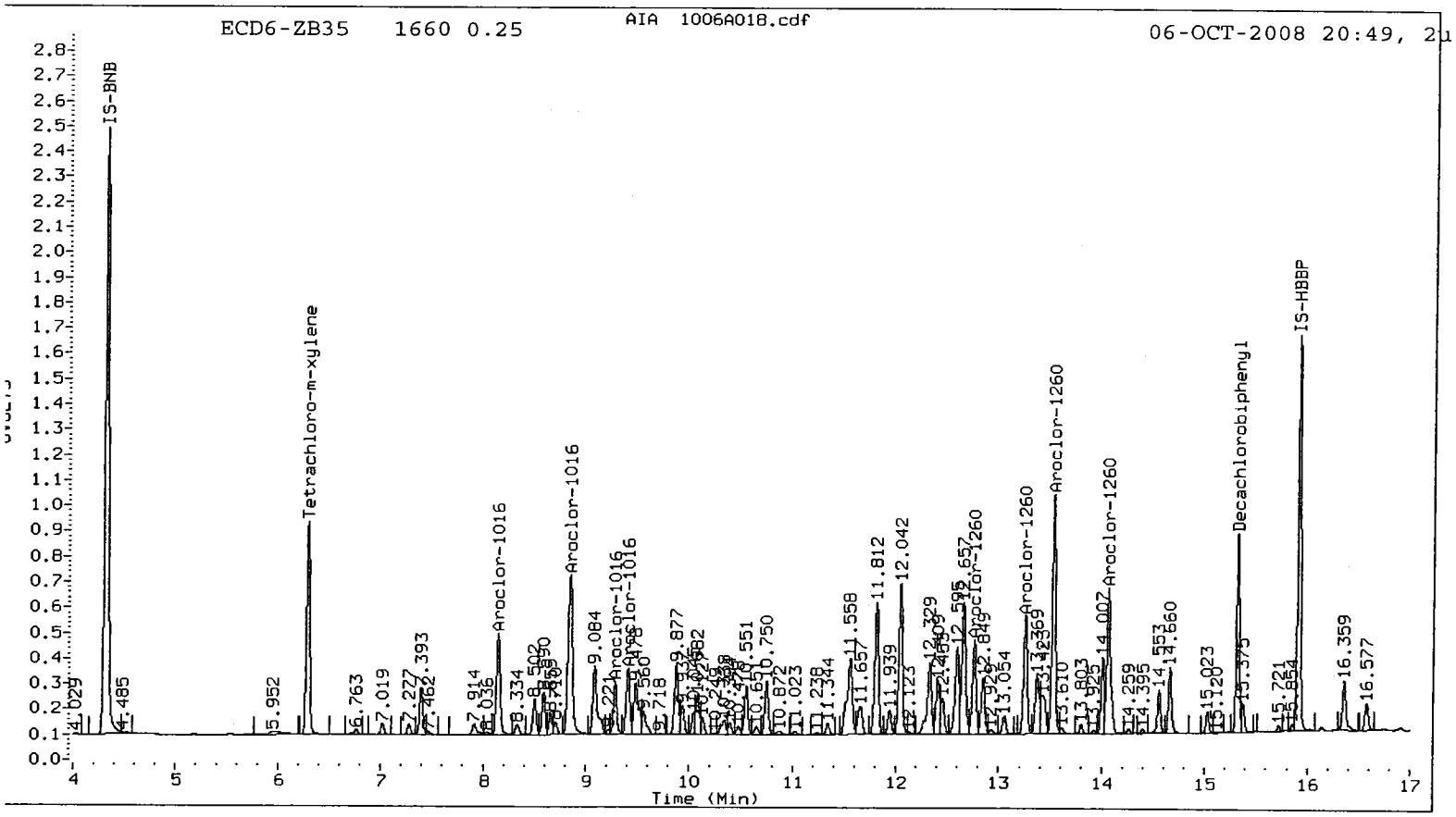
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP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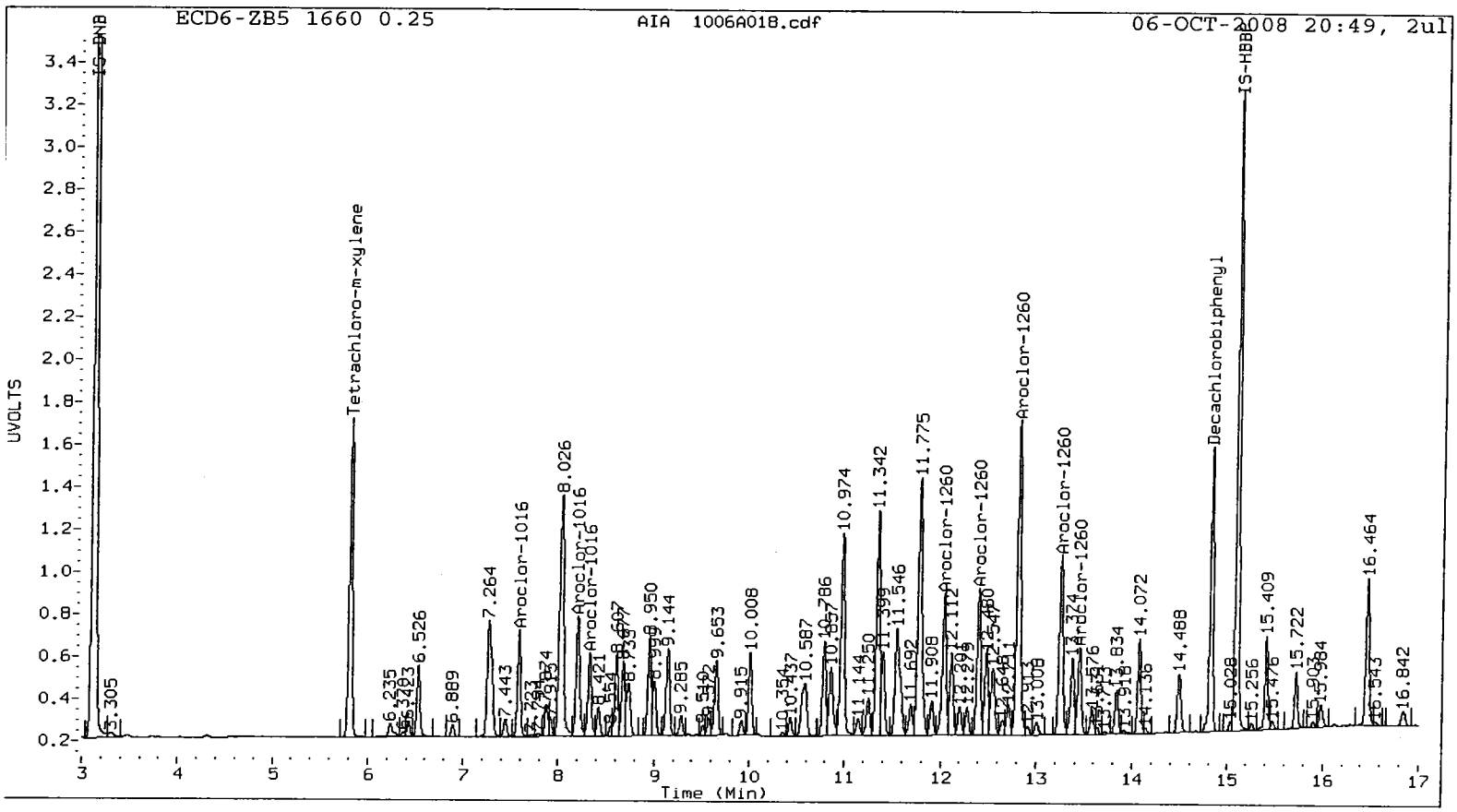
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP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Tetrachloro-m-xylene
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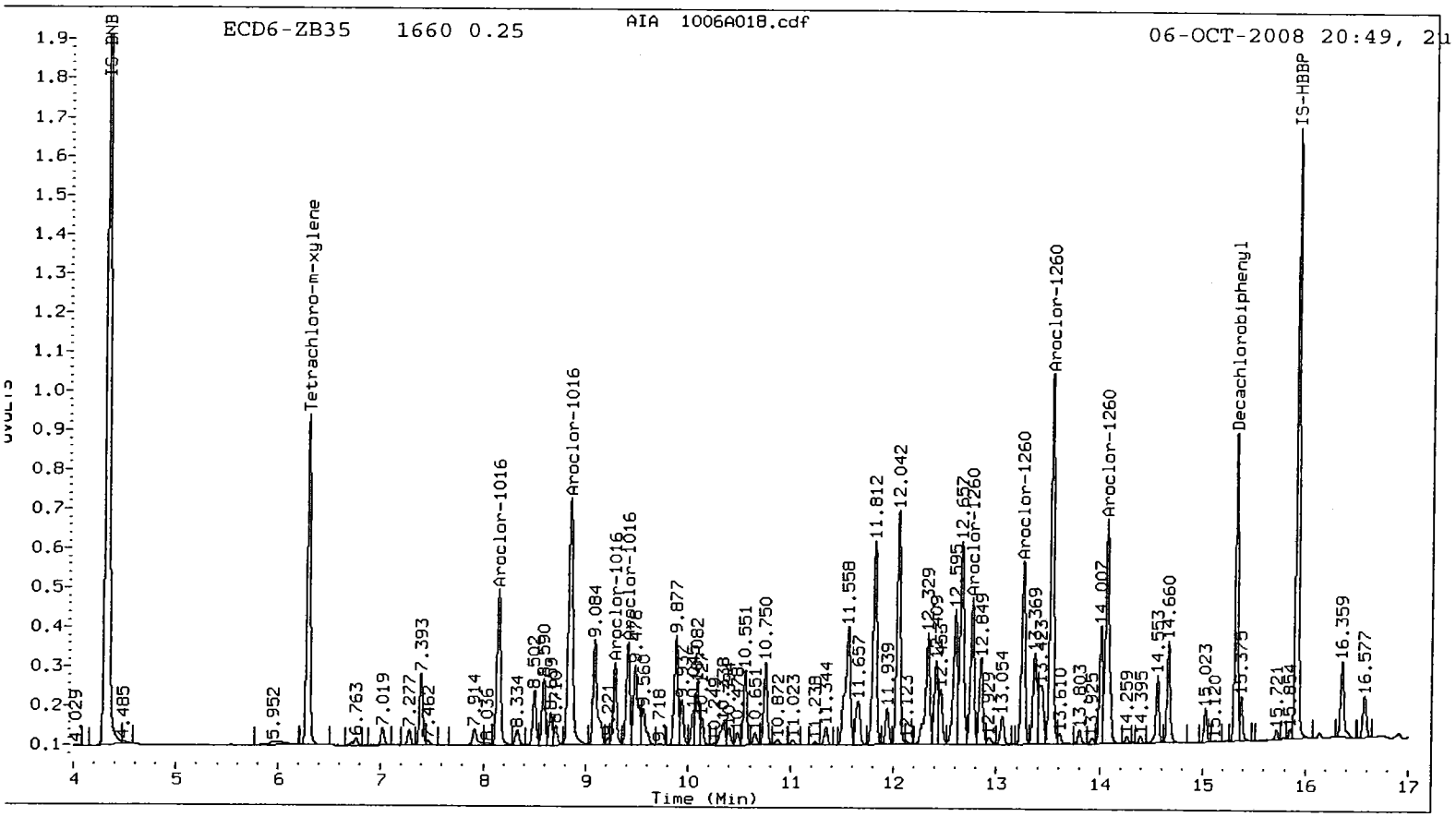
Aroclor-1260
Decachlorobiphenyl
IS-HBBP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Time (Min)
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Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081006.B/ical-1.b/1006A019.d
Data file 2: 20081006.B/ical-2.b/1006A019.d
Method: /chem2/ecd6.i/20081006.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd6.i, 2ul
Quant Method: Internal Std

ARI ID: 1660 0.5
Client ID:
Injection Date: 06-OCT-2008 21:12
Report Date: 10/07/2008 08:35
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.812	0.003	1354984	6.293	0.000	719622	38.4	38.6	0.6	Tetrachloro-m-xylene
14.824	0.003	1141423	15.320	-0.056	575345	36.4	36.6	0.7	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	96.0	96.6
Decachlorobiphenyl	90.9	91.6

NF 10/07/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2417502	2385999	-1.3
Hexabromobiphenyl	1336983	1311651	-1.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1179079	1173251	-0.5
Hexabromobiphenyl	604278	598573	-0.9

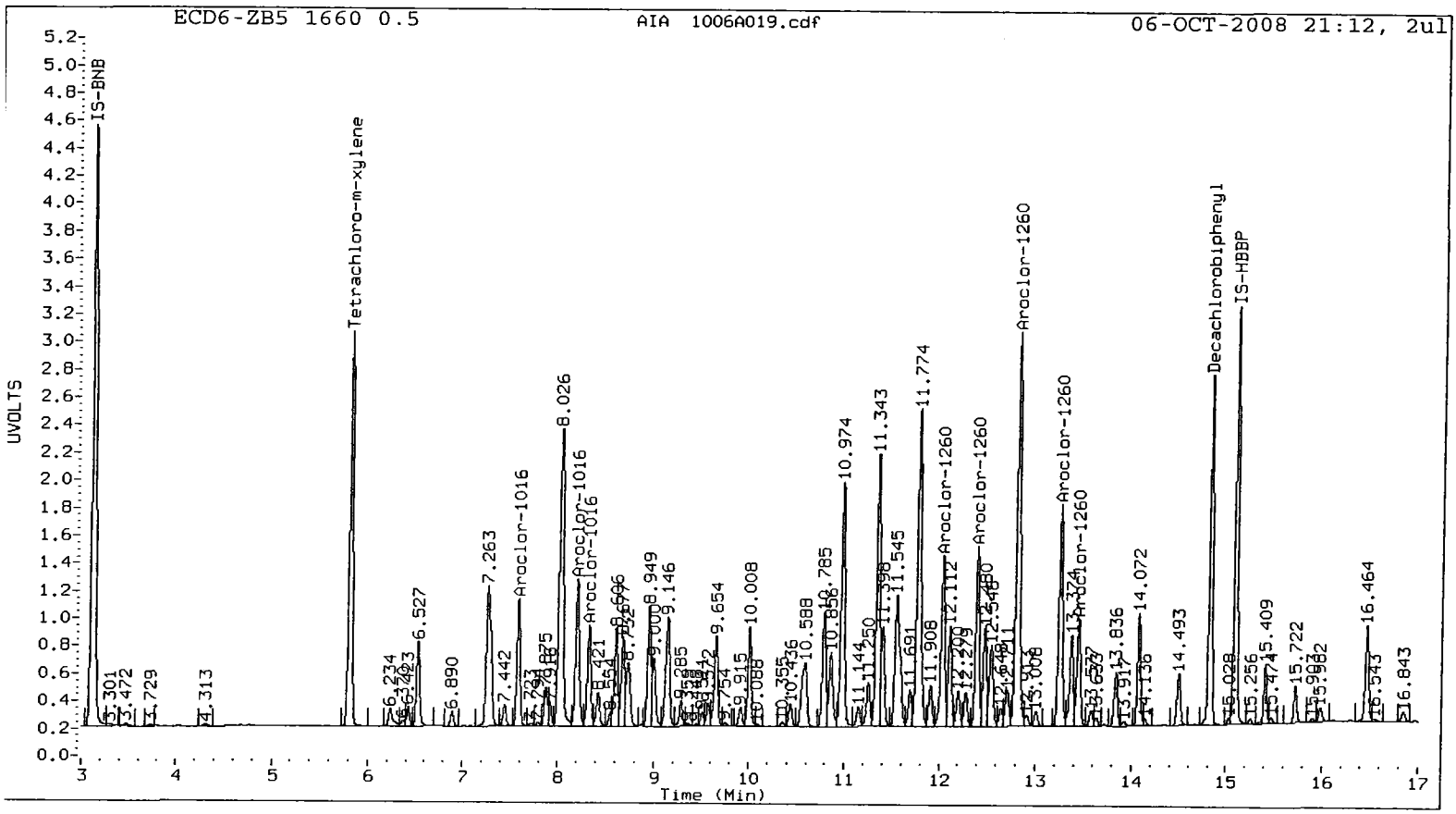
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.586	0.001	448300	456.0	1	8.146	0.000	387516	460.5
Aroclor-1016	2	8.200	0.001	566679	457.2	2	8.845	0.000	740670	460.9
Aroclor-1016	3	8.326	0.001	383547	466.2	3	9.282	0.000	188061	479.5
Aroclor-1016	NS	---			----	4	9.408	0.001	236096	464.2
	Total Col1Ave (3 peaks):				459.8	Total Col2Ave (4 peaks):			466.3	RPD = 1
	Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):			461.9	
Aroclor-1260	1	12.035	0.000	695801	458.7	1	12.761	0.000	356116	463.8
Aroclor-1260	2	12.397	-0.001	699592	460.0	2	13.257	0.001	426591	468.9
Aroclor-1260	3	12.811	0.002	1632263	463.3	3	13.529	0.001	833923	472.1
Aroclor-1260	4	13.254	0.001	875604	466.5	4	14.061	0.001	565627	468.2
Aroclor-1260	5	13.447	0.000	408146	457.4	NS	---			----
	Total Col1Ave (5 peaks):				461.2	Total Col2Ave (4 peaks):			468.2	RPD = 2
	Corrected Ave (4 peaks):				459.9	Corrected Ave (3 peaks):			466.9	RPD = 2

Total PCB Area Col1 (5.909 - 14.721) = 21113762 Col1 Total PCB = 0.9 ppm*

Total PCB Area Col2 (6.393 - 15.276) = 10993562 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical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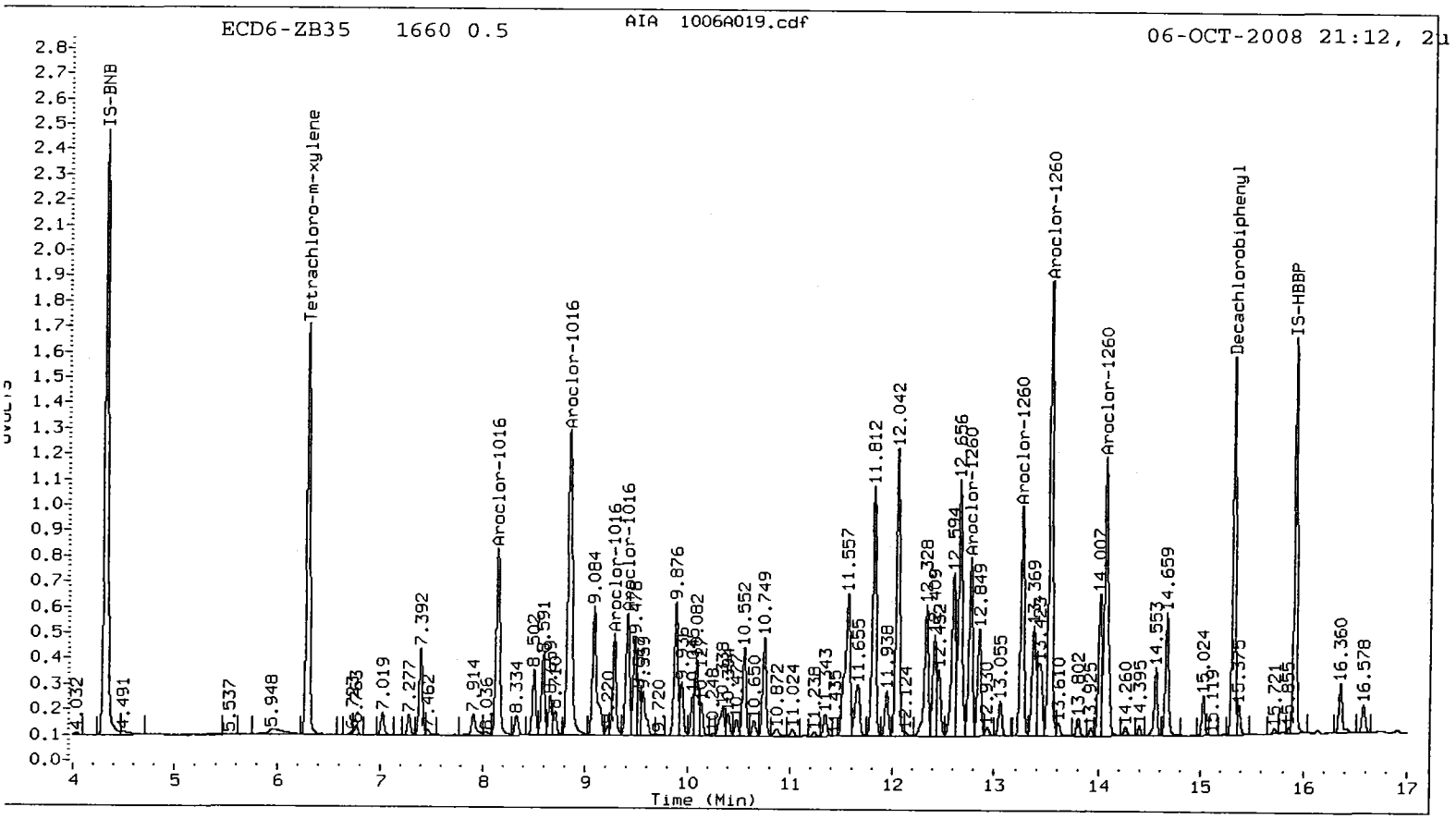
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP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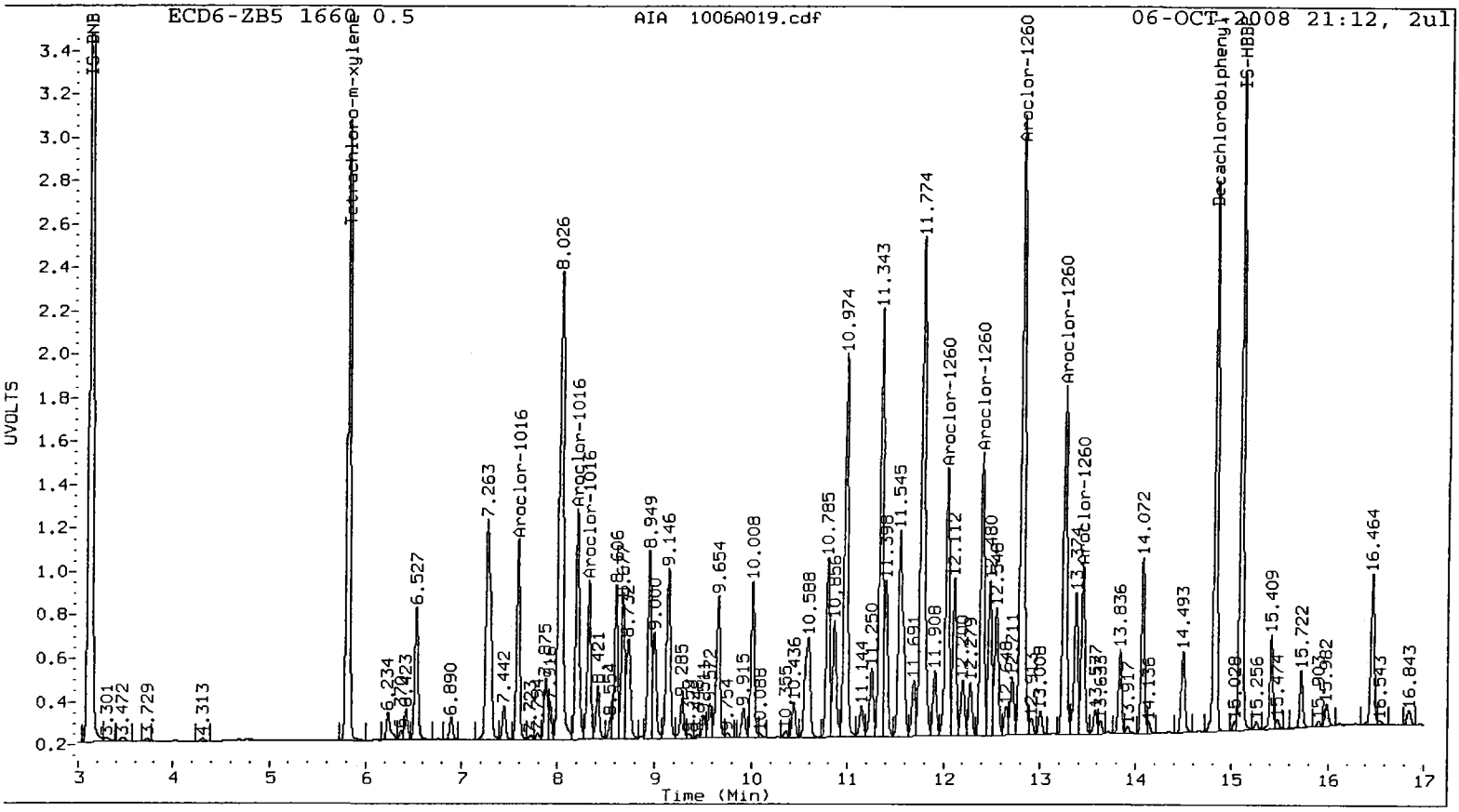
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP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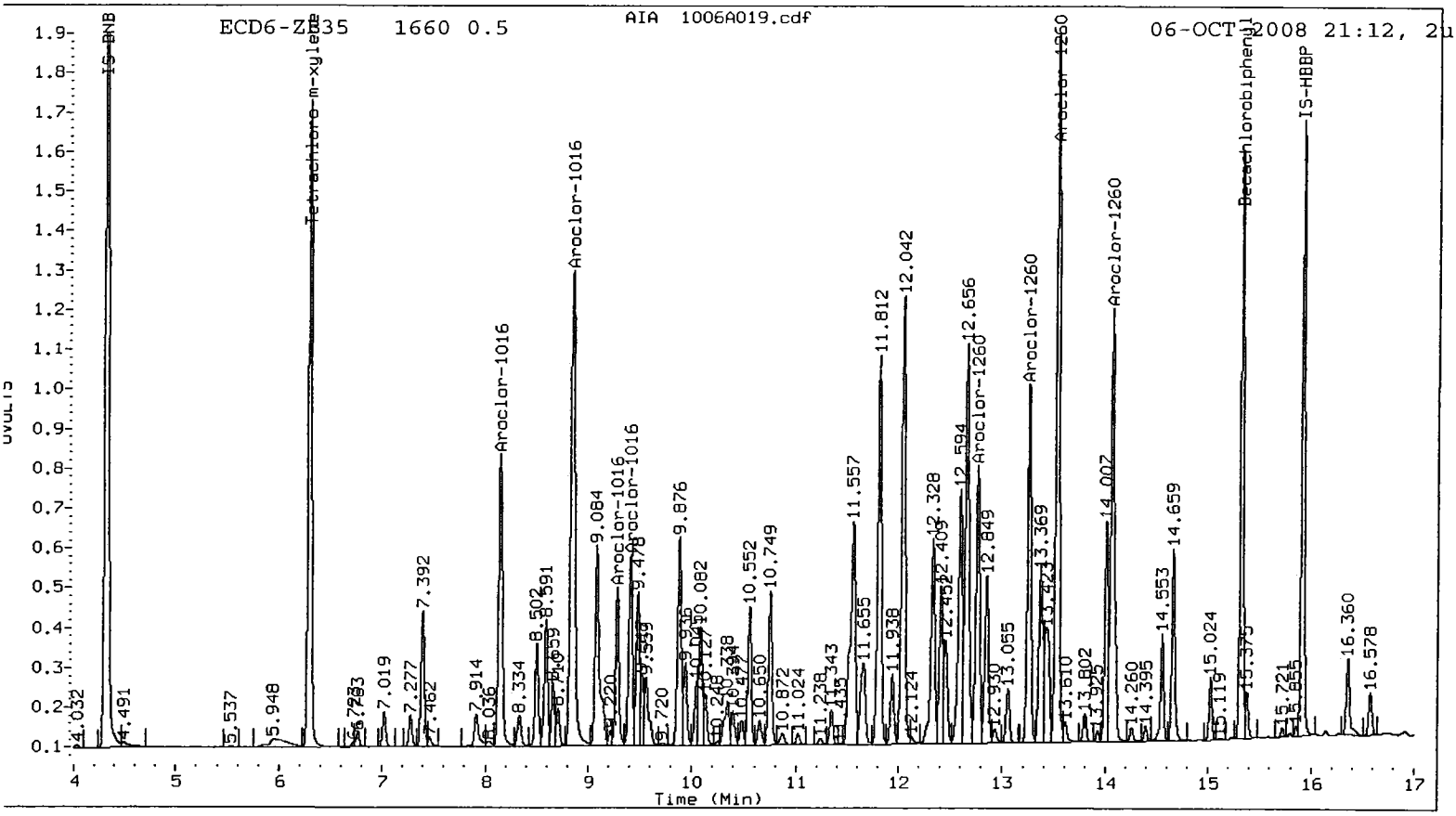
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP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UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081006.B/ical-1.b/1006A020.d
Data file 2: 20081006.B/ical-2.b/1006A020.d
Method: /chem2/ecd6.i/20081006.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd6.i, 2ul
Quant Method: Internal Std

ARI ID: 1660 1.0
Client ID:
Injection Date: 06-OCT-2008 21:34
Report Date: 10/07/2008 08:35
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.813	0.004	2565793	6.292	-0.001	1378634	70.9	71.0	0.2	Tetrachloro-m-xylene
14.823	0.002	2117245	15.320	-0.056	1078779	64.2	65.0	1.3	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	177.2	177.5
Decachlorobiphenyl	160.5	162.6

jf 10/07/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2417502	2449085	1.3
Hexabromobiphenyl	1336983	1378346	3.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1179079	1223086	3.7
Hexabromobiphenyl	604278	631952	4.6

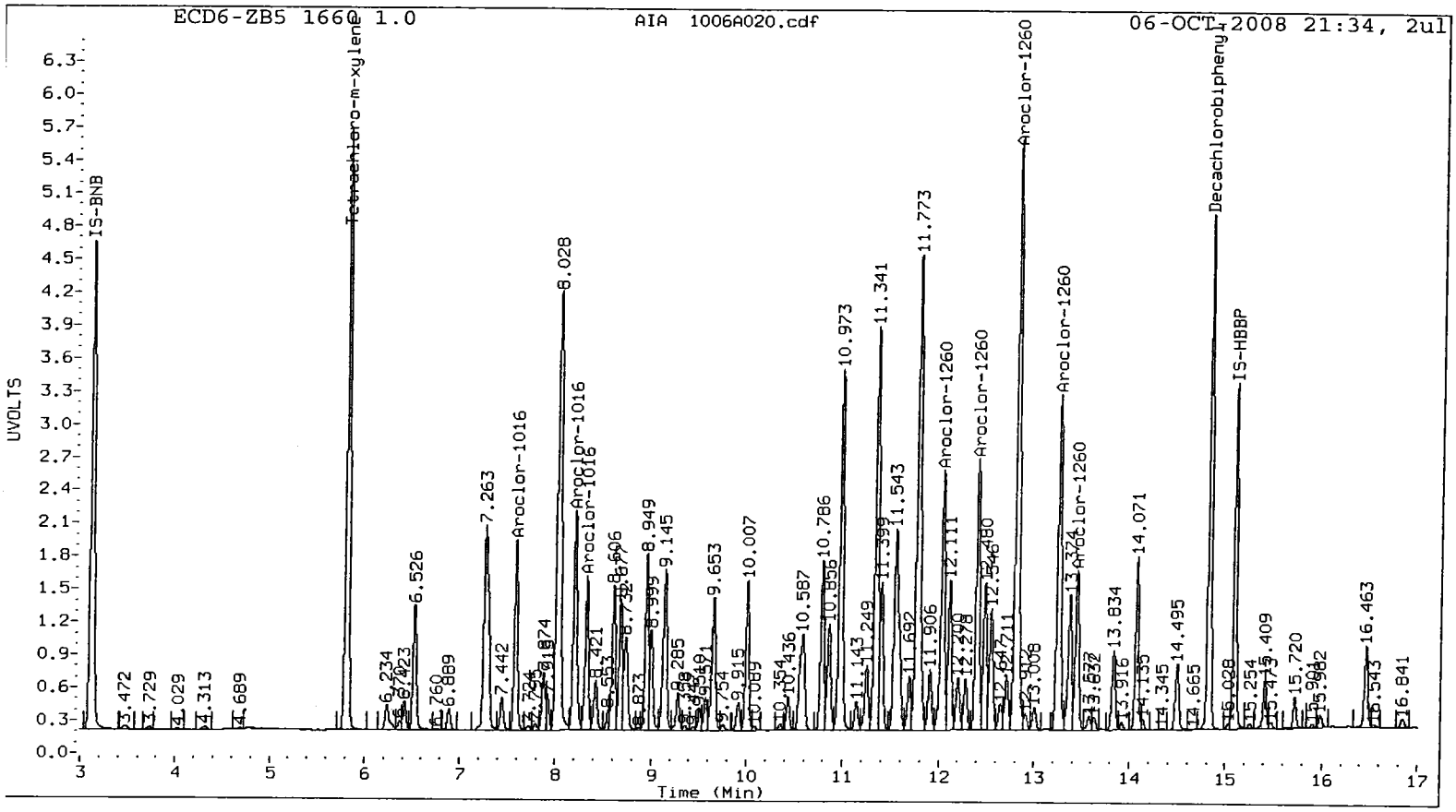
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.586	0.000	825877	818.4	1	8.145	0.000	705295	804.1
Aroclor-1016	2	8.199	0.000	1046106	822.2	2	8.844	-0.001	1377448	822.3
Aroclor-1016	3	8.325	0.000	712855	844.1	3	9.281	-0.001	352750	862.8
Aroclor-1016	NS	---			----	4	9.408	0.000	434248	819.0
Total Col1Ave (3 peaks): 828.2					Total Col2Ave (4 peaks): 827.0 RPD = 0					
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks): 815.1					
Aroclor-1260	1	12.034	-0.001	1303536	817.8	1	12.760	-0.001	665154	820.5
Aroclor-1260	2	12.396	-0.001	1322443	827.5	2	13.256	0.000	801972	834.9
Aroclor-1260	3	12.809	0.000	3074203	830.4	3	13.527	0.000	1577017	845.6
Aroclor-1260	4	13.252	0.000	1671992	847.7	4	14.059	-0.001	1072075	840.5
Aroclor-1260	5	13.446	0.000	767831	818.9	NS	---			----
Total Col1Ave (5 peaks): 828.5					Total Col2Ave (4 peaks): 835.4 RPD = 1					
Corrected Ave (4 peaks): 823.7					Corrected Ave (3 peaks): 832.0 RPD = 1					

Total PCB Area Col1 (5.909 - 14.721) = 39199590 Col1 Total PCB = 1.7 ppm*

Total PCB Area Col2 (6.393 - 15.276) = 20504562 Col2 Total PCB = 1.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical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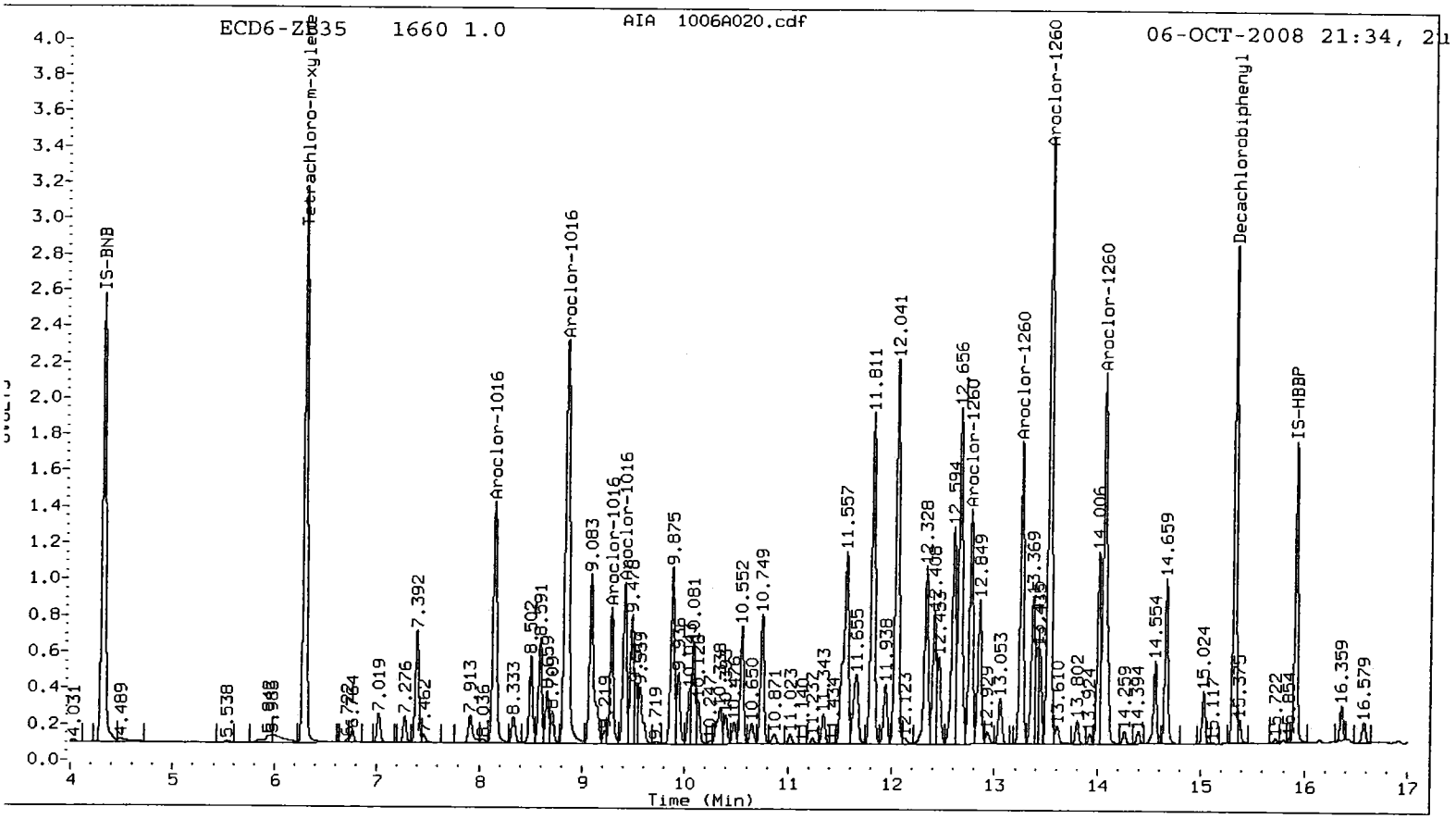
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP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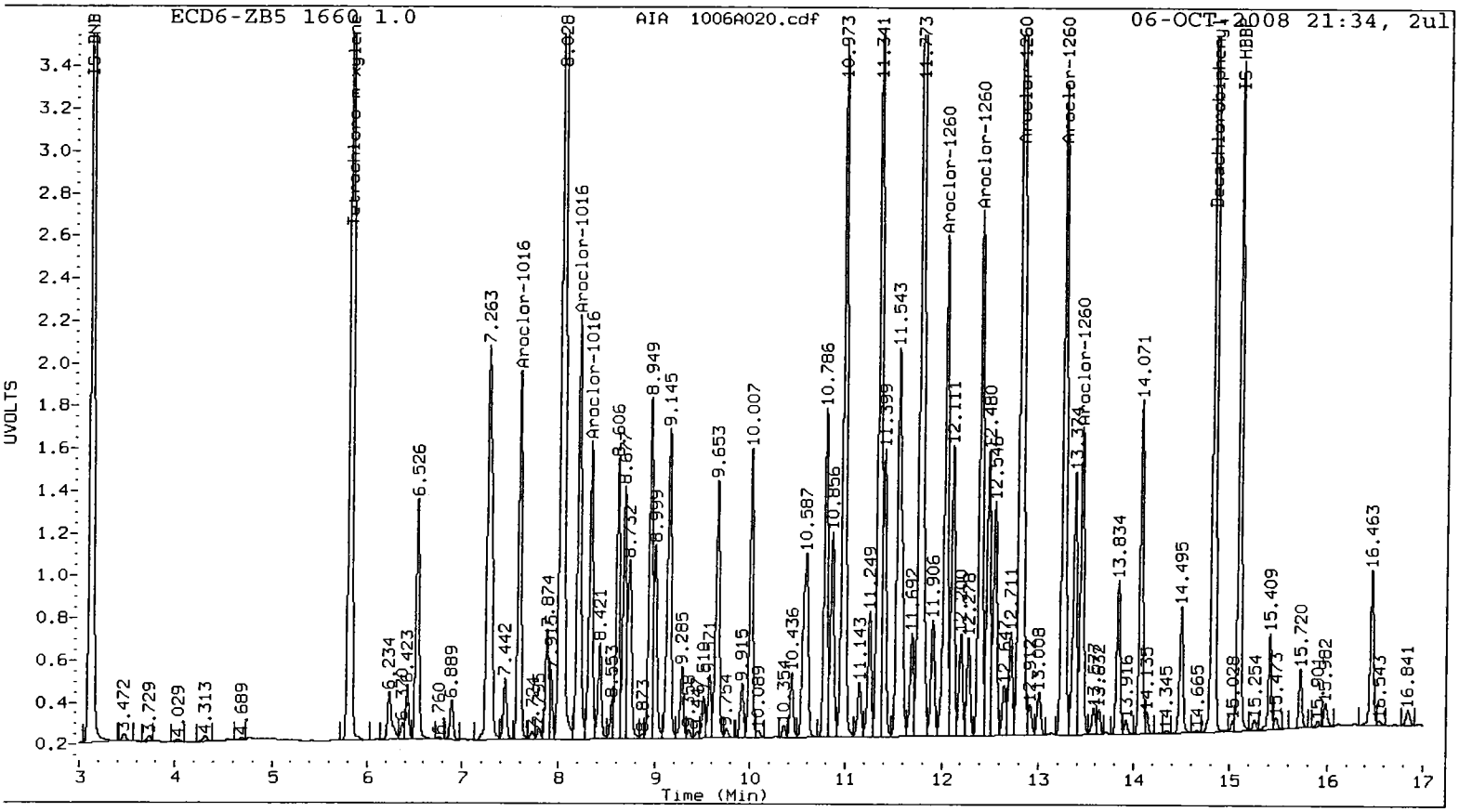
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP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Tetrachloro-m-xylene
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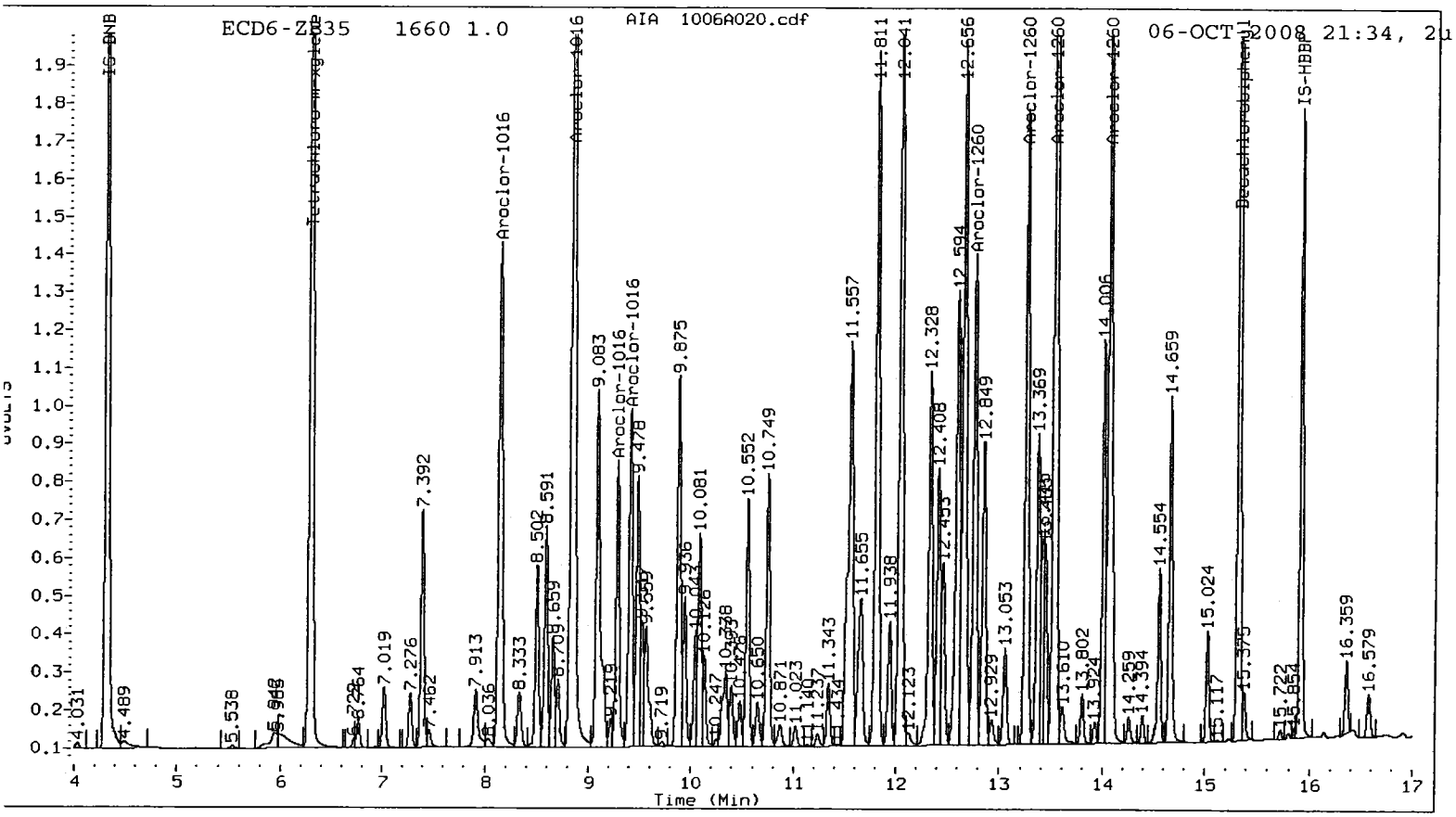
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Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBB

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081006.B/ical-1.b/1006A021.d
Data file 2: 20081006.B/ical-2.b/1006A021.d
Method: /chem2/ecd6.i/20081006.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd6.i, 2ul
Quant Method: Internal Std

ARI ID: 1660 ICV
Client ID:
Injection Date: 06-OCT-2008 21:56
Report Date: 10/07/2008 08:35
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.809	0.000	21109	6.293	0.000	2493	0.6	0.1	127.6*	Tetrachloro-m-xylene
14.821	0.000	10555	15.376	0.000	42296	0.3	2.7	155.5*	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	1.5	0.3
Decachlorobiphenyl	0.8	6.7

pc 10/07/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2417502	2377143	-1.7
Hexabromobiphenyl	1336983	1312928	-1.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1179079	1182377	0.3
Hexabromobiphenyl	604278	601131	-0.5

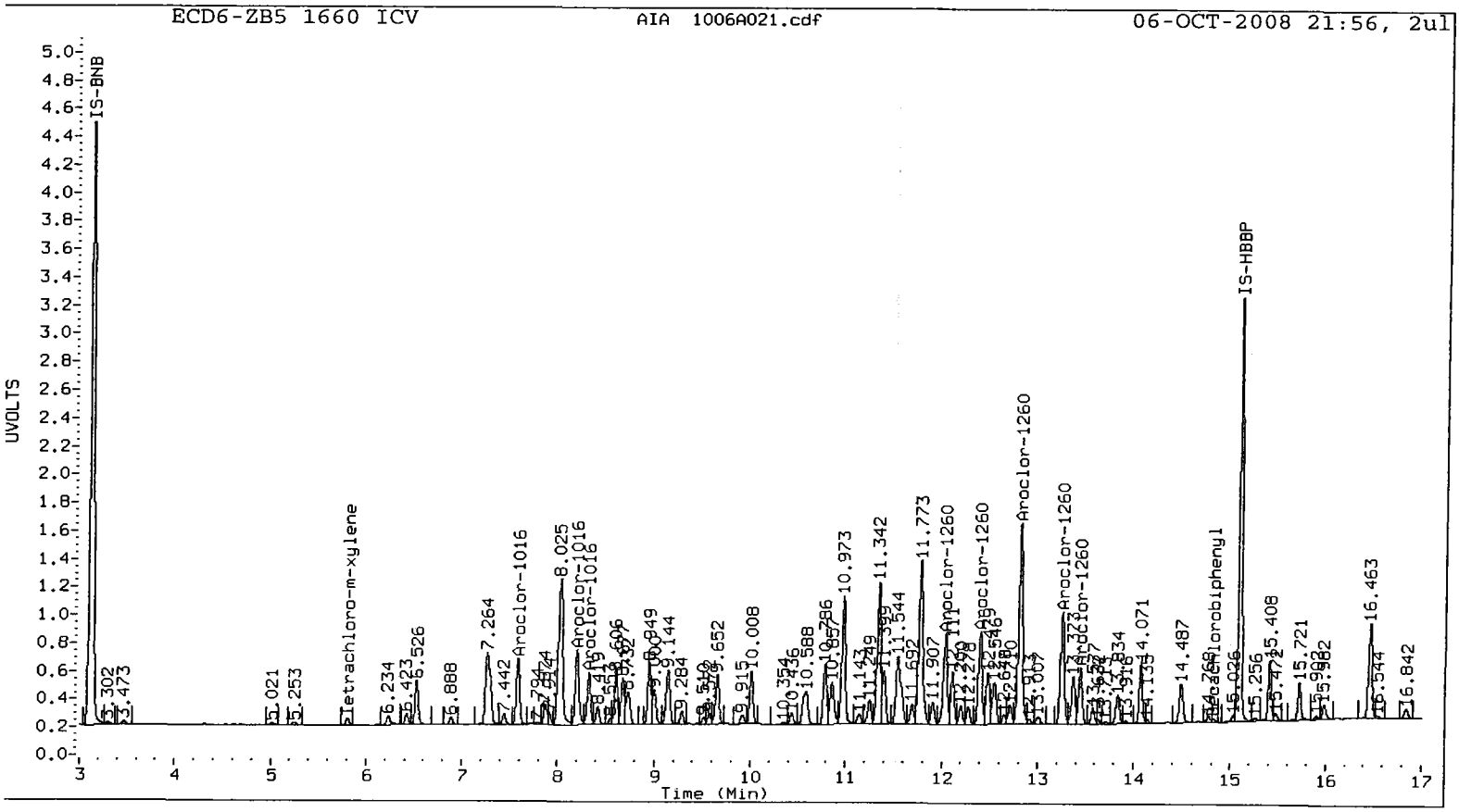
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	ZB5 Col Shift	Area	Amount	Peak#	RT	ZB35 Col Shift	Area	Amount
Aroclor-1016	1	7.585	0.000	226445	231.2	1	8.146	0.000	197880	233.4
Aroclor-1016	2	8.199	0.000	286701	232.2	2	8.846	0.000	371884	229.6
Aroclor-1016	3	8.325	0.000	192724	235.1	3	9.282	0.000	93242	235.9
Aroclor-1016	NS	---			----	4	9.407	0.000	119496	233.1
	Total Col1Ave (3 peaks):				232.8	Total Col2Ave (4 peaks):			233.0	RPD = 0
	Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):			232.0	
Aroclor-1260	1	12.035	0.000	358658	236.2	1	12.761	0.000	182792	237.0
Aroclor-1260	2	12.397	0.000	358742	235.7	2	13.256	0.000	217322	237.8
Aroclor-1260	3	12.809	0.000	822360	233.2	3	13.528	0.000	421969	237.9
Aroclor-1260	4	13.253	0.000	443164	235.9	4	14.060	0.000	286488	236.1
Aroclor-1260	5	13.447	0.000	210593	235.8	NS	---			----
	Total Col1Ave (5 peaks):				235.4	Total Col2Ave (4 peaks):			237.2	RPD = 1
	Corrected Ave (4 peaks):				235.1	Corrected Ave (3 peaks):			237.0	RPD = 1

Total PCB Area Col1 (5.909 - 14.721) = 10780583 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (6.393 - 15.276) = 5582598 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical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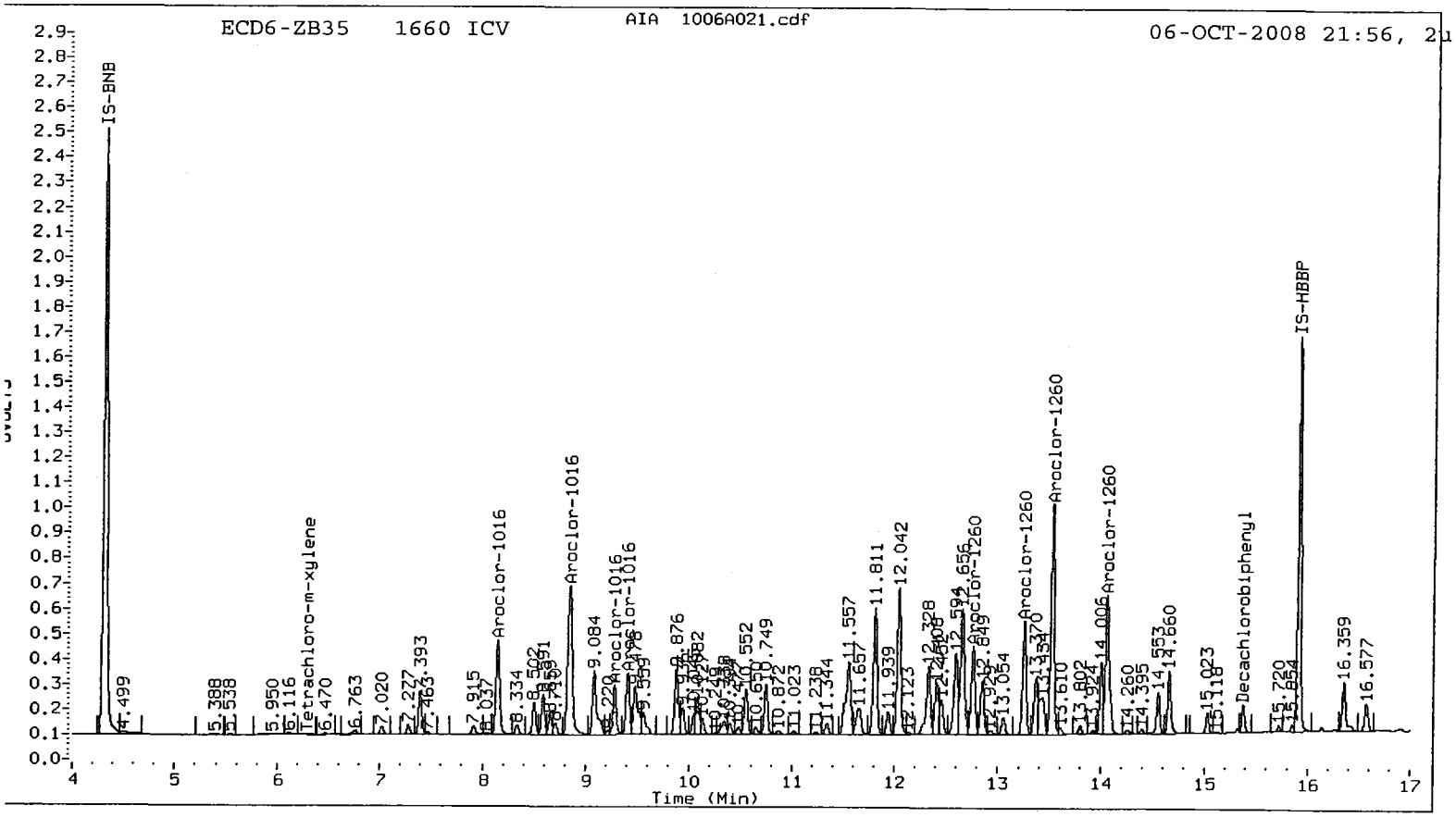
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP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Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081006.B/ical-1.b/1006A022.d
Data file 2: 20081006.B/ical-2.b/1006A022.d
Method: /chem2/ecd6.i/20081006.B/PCB1.m
Compound Sublist: AR1242
Instrument, Inj. Vol.: ecd6.i, 2ul
Quant Method: Internal Std

ARI ID: 1242
Client ID:
Injection Date: 06-OCT-2008 22:19
Report Date: 10/07/2008 08:35
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.812	0.003	656174	6.292	0.000	349538	18.8	18.6	1.0	Tetrachloro-m-xylene
14.823	0.002	569666	15.320	-0.056	282241	18.2	17.8	2.1	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	47.0	46.5
Decachlorobiphenyl	45.5	44.6

07
MP/08/08
JR 10/7/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2417502	2362338	-2.3
Hexabromobiphenyl	1336983	1306471	-2.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1179079	1183113	0.3
Hexabromobiphenyl	604278	602434	-0.3

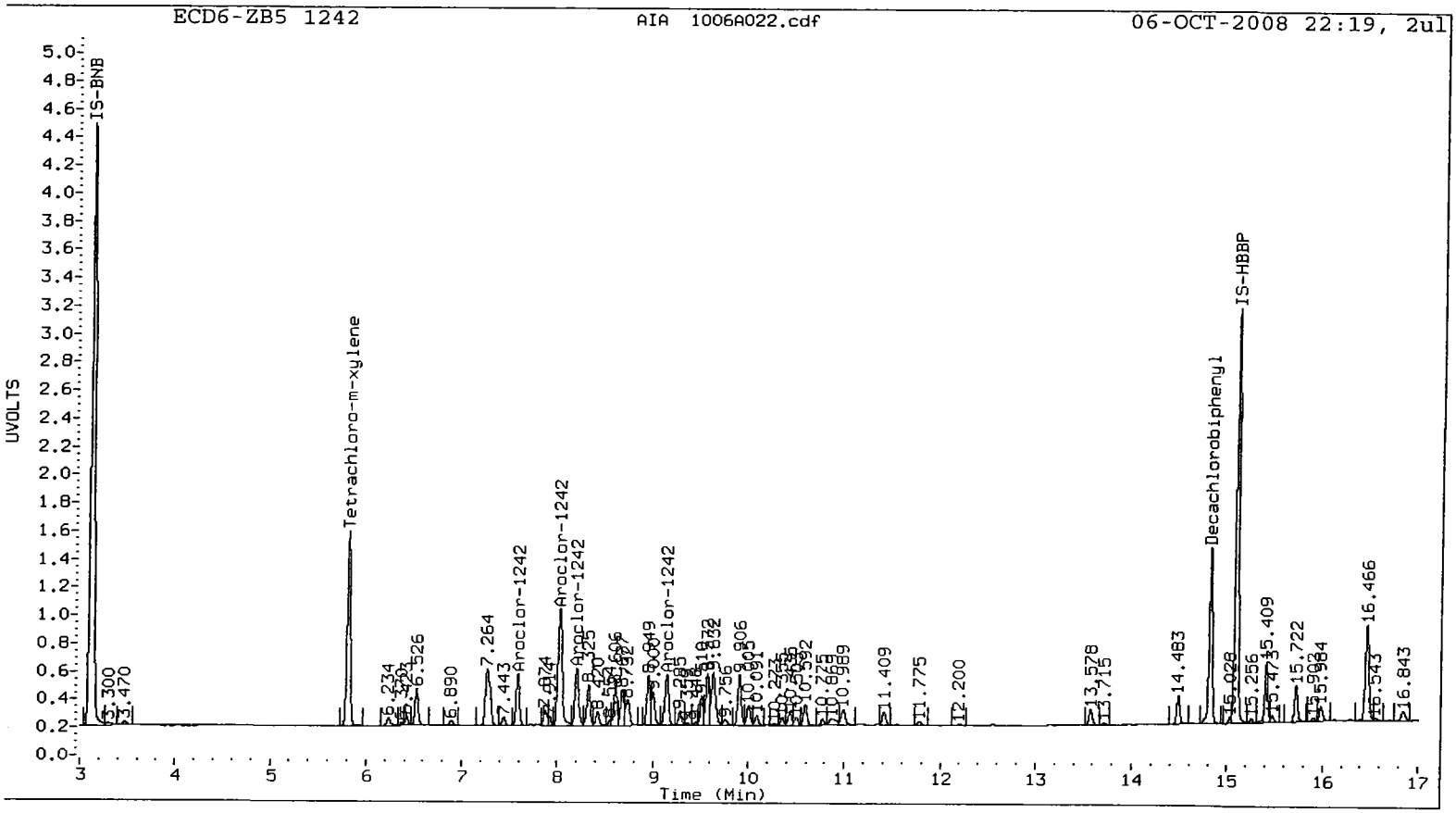
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.586	0.000	177561	250.0	1	15.320	0.000	282241	250.0
Aroclor-1242	2	8.026	0.000	539668	250.0	2	8.845	0.000	291831	250.0
Aroclor-1242	3	8.199	0.000	226684	250.0	3	9.283	0.000	73814	250.0
Aroclor-1242	4	9.145	0.000	210194	250.0	4	9.408	0.000	91500	250.0
Aroclor-1242	NS	---			----	5	10.394	0.000	98233	250.0
Total Col1Ave (4 peaks): 250.0						Total Col2Ave (5 peaks): 250.0 RPD = 0				
Corrected Ave (3 peaks): 250.0						Corrected Ave (4 peaks): 250.0 RPD = 0				

Total PCB Area Col1 (5.909 - 14.721) = 4144530 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (6.393 - 15.276) = 2162991 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical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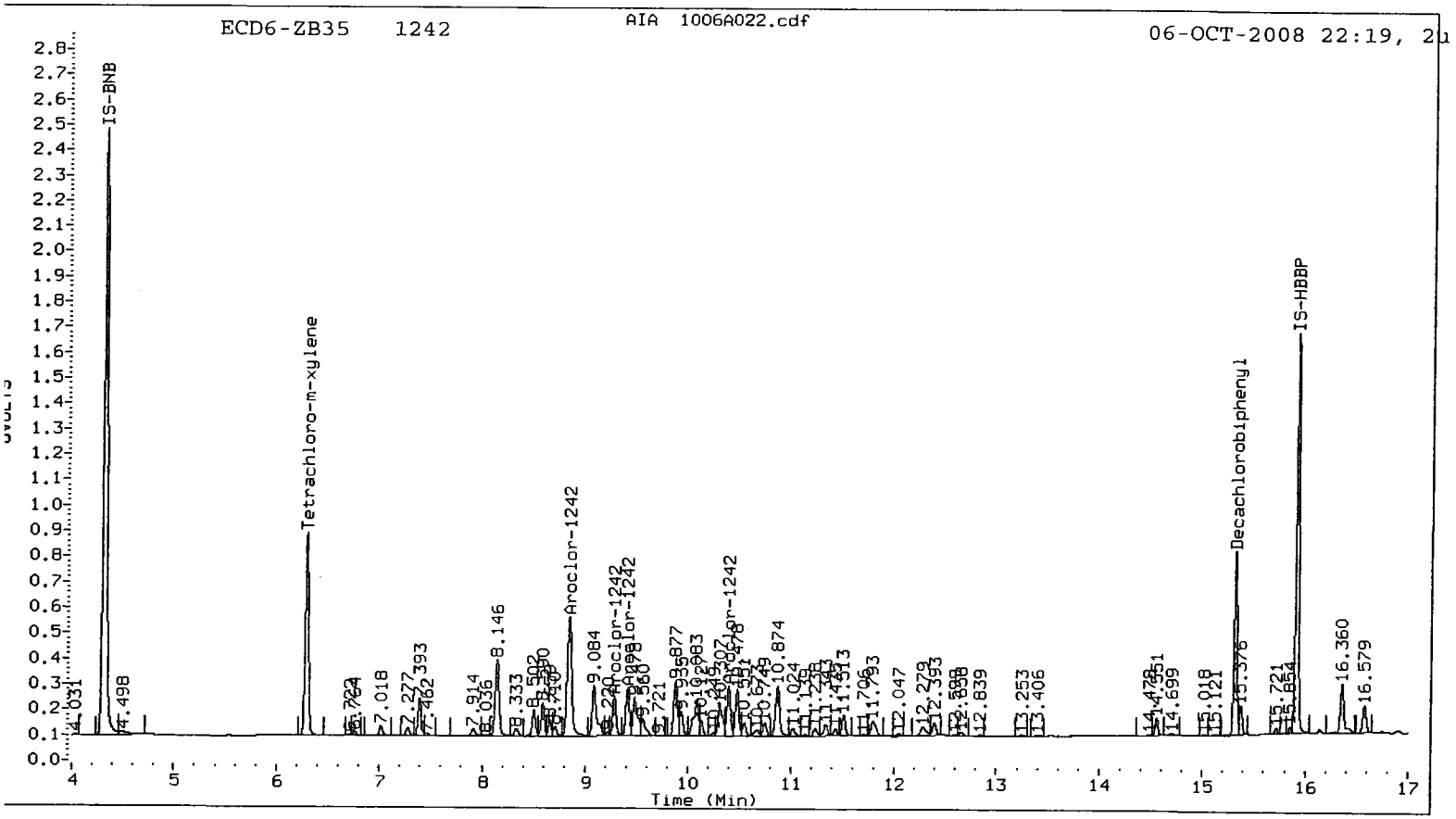
Aroclor-1242
Decachlorobiphenyl
IS-HBBP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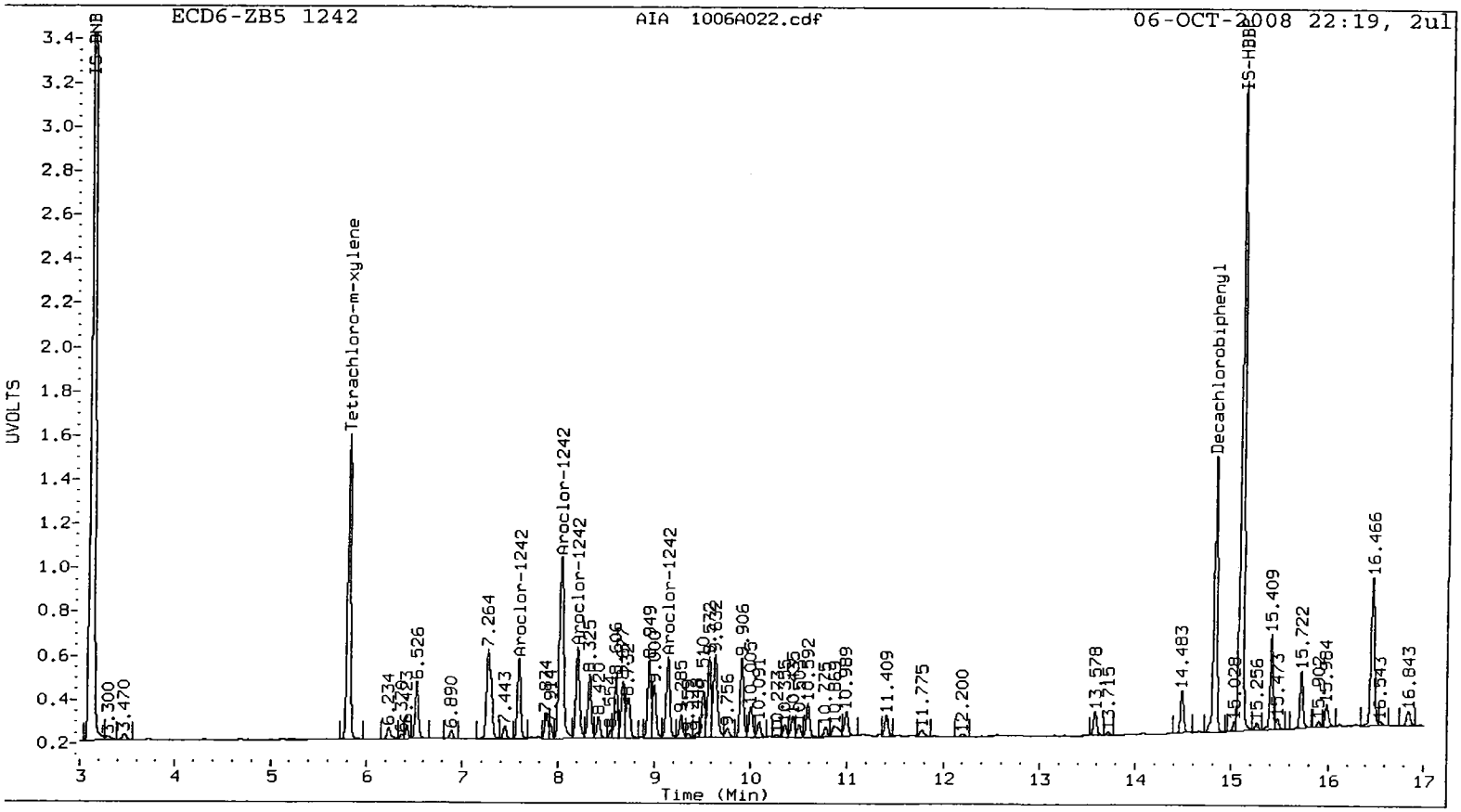
Aroclor-1242
Decachlorobiphenyl
IS-HBBP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Time (Min)
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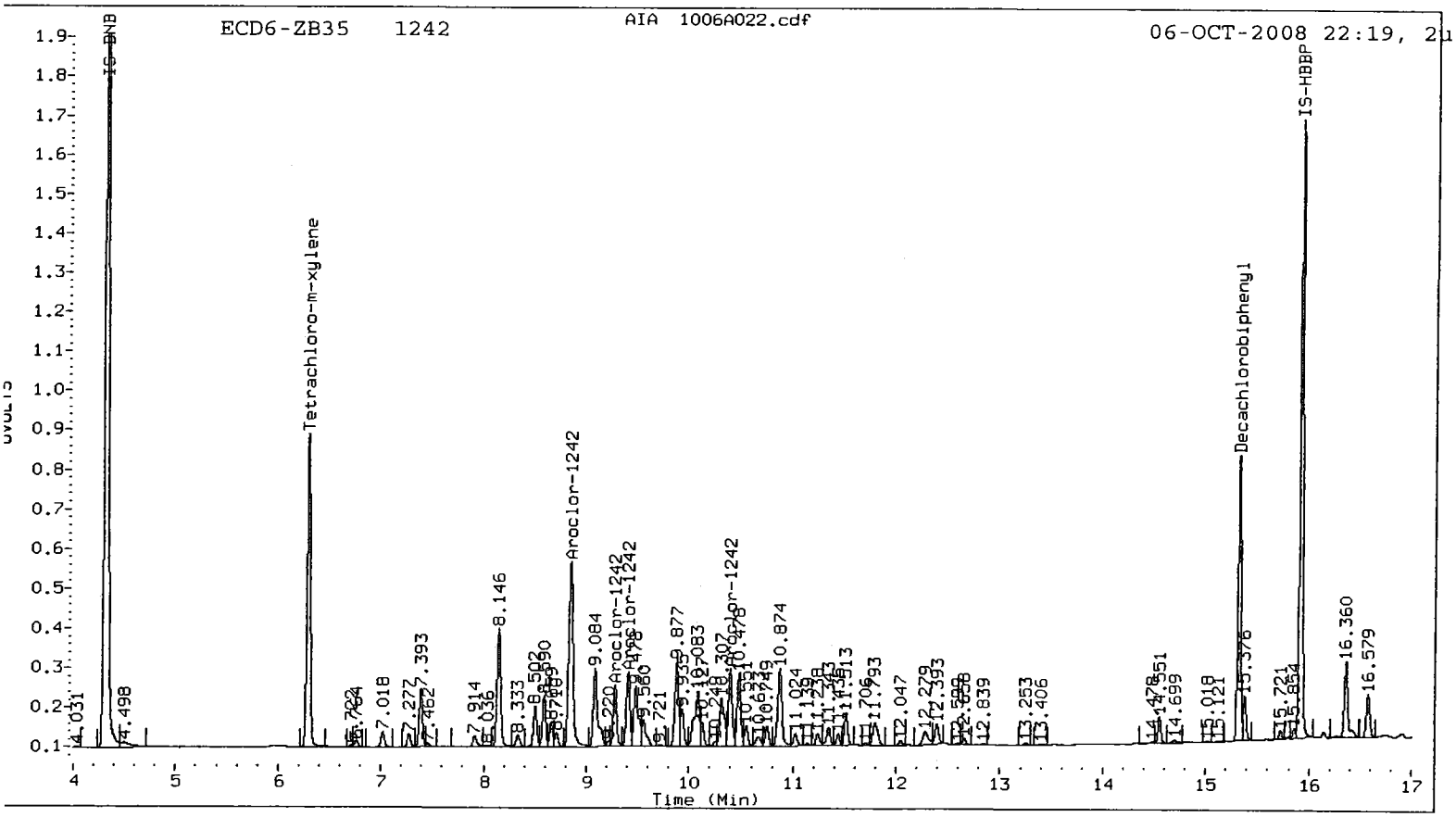
Tetrachloro-m-xylene
Aroclor-1242
Decachlorobiphenyl
IS-HBBP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06-OCT-2008 22:19, 2u
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1242
Decachlorobiphenyl
IS-HBBP

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081006.B/ical-1.b/1006A023.d
Data file 2: 20081006.B/ical-2.b/1006A023.d
Method: /chem2/ecd6.i/20081006.B/PCB1.m
Compound Sublist: AR1248
Instrument, Inj. Vol.: ecd6.i, 2ul
Quant Method: Internal Std

ARI ID: 1248
Client ID:
Injection Date: 06-OCT-2008 22:41
Report Date: 10/07/2008 08:35
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.814	0.005	651106	6.293	0.001	352780	18.6	18.7	0.5	Tetrachloro-m-xylene
14.824	0.003	571586	15.321	-0.055	285576	18.4	18.1	1.8	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	46.5	46.8
Decachlorobiphenyl	46.1	45.3

AR 10/07/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2417502	2367092	-2.1
Hexabromobiphenyl	1336983	1295607	-3.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1179079	1187585	0.7
Hexabromobiphenyl	604278	601071	-0.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1248	1	8.026	0.000	399567	250.0	1	8.845	0.000	219062	250.0
Aroclor-1248	2	8.608	0.000	252576	250.0	2	9.409	0.000	149082	250.0
Aroclor-1248	3	9.146	0.000	322192	250.0	3	9.878	0.000	164821	250.0
Aroclor-1248	4	9.573	0.000	329642	250.0	4	10.395	0.000	177455	250.0

Total Col1Ave (4 peaks): 250.0 Total Col2Ave (4 peaks): 250.0 RPD = 0

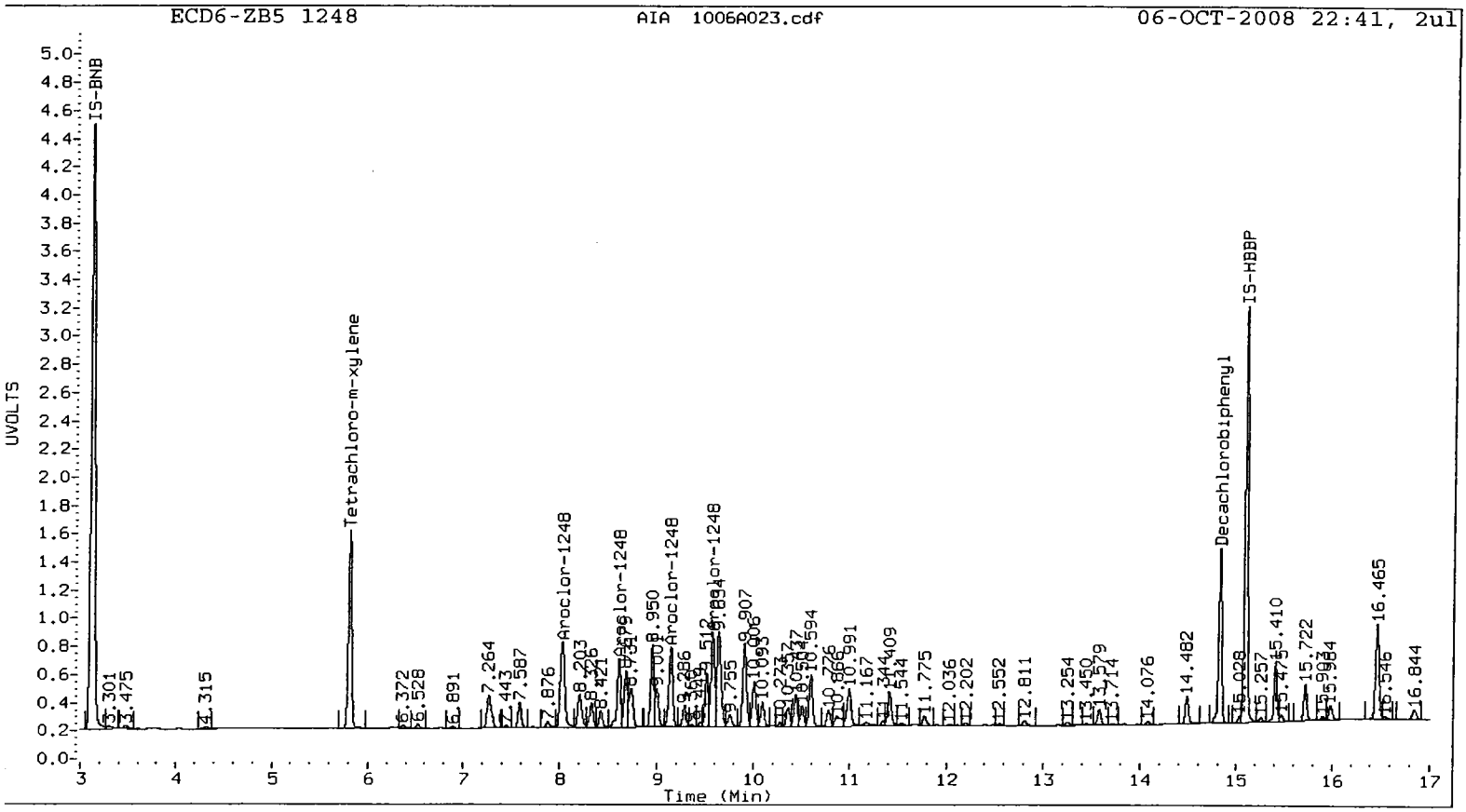
Corrected Ave (3 peaks): 250.0 Corrected Ave (3 peaks): 250.0 RPD = 0

Total PCB Area Col1 (5.909 - 14.721) = 5221731 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (6.393 - 15.276) = 2710575 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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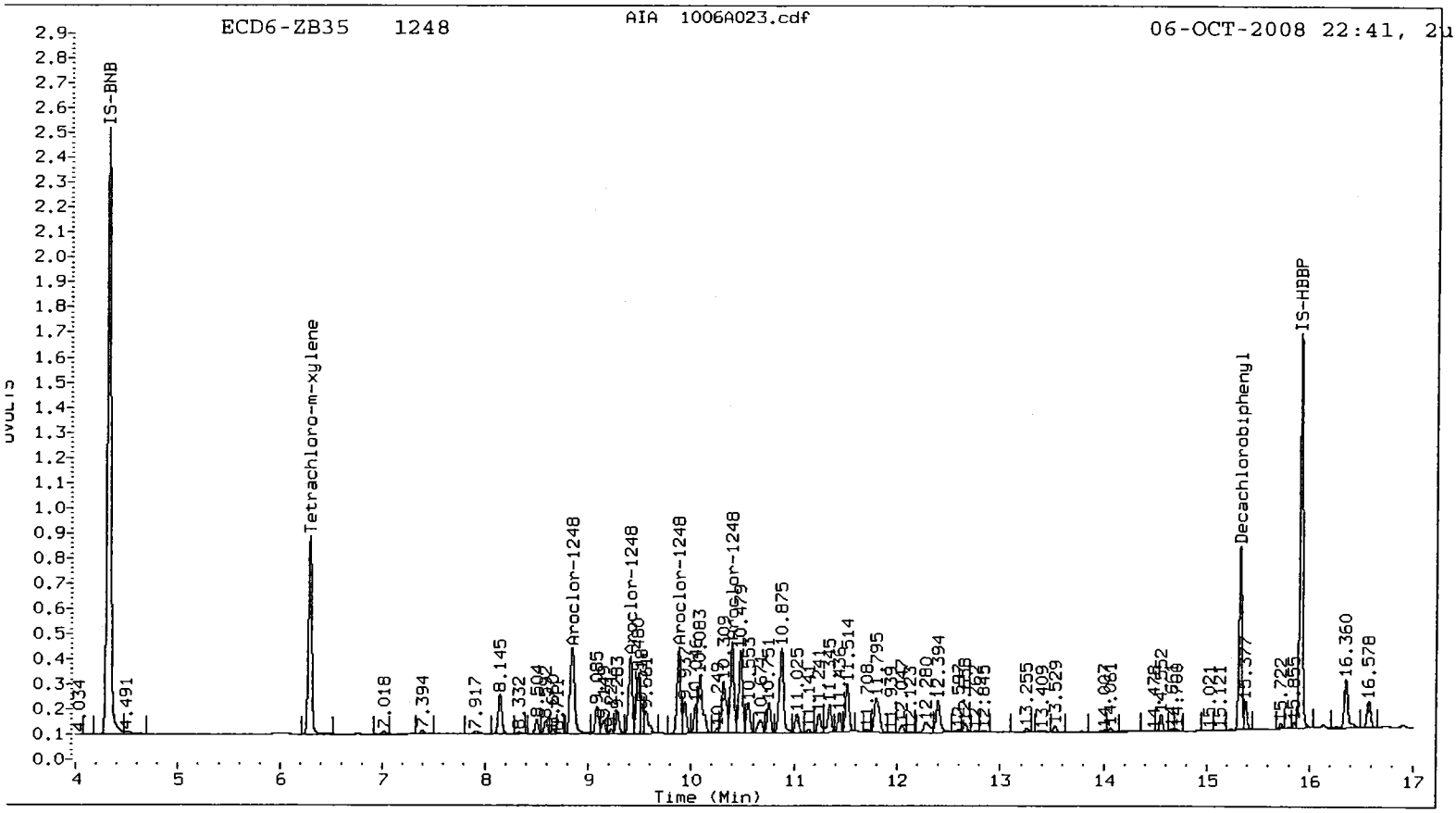
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1248
Decachlorobiphenyl
IS-HBBP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Time (Min)
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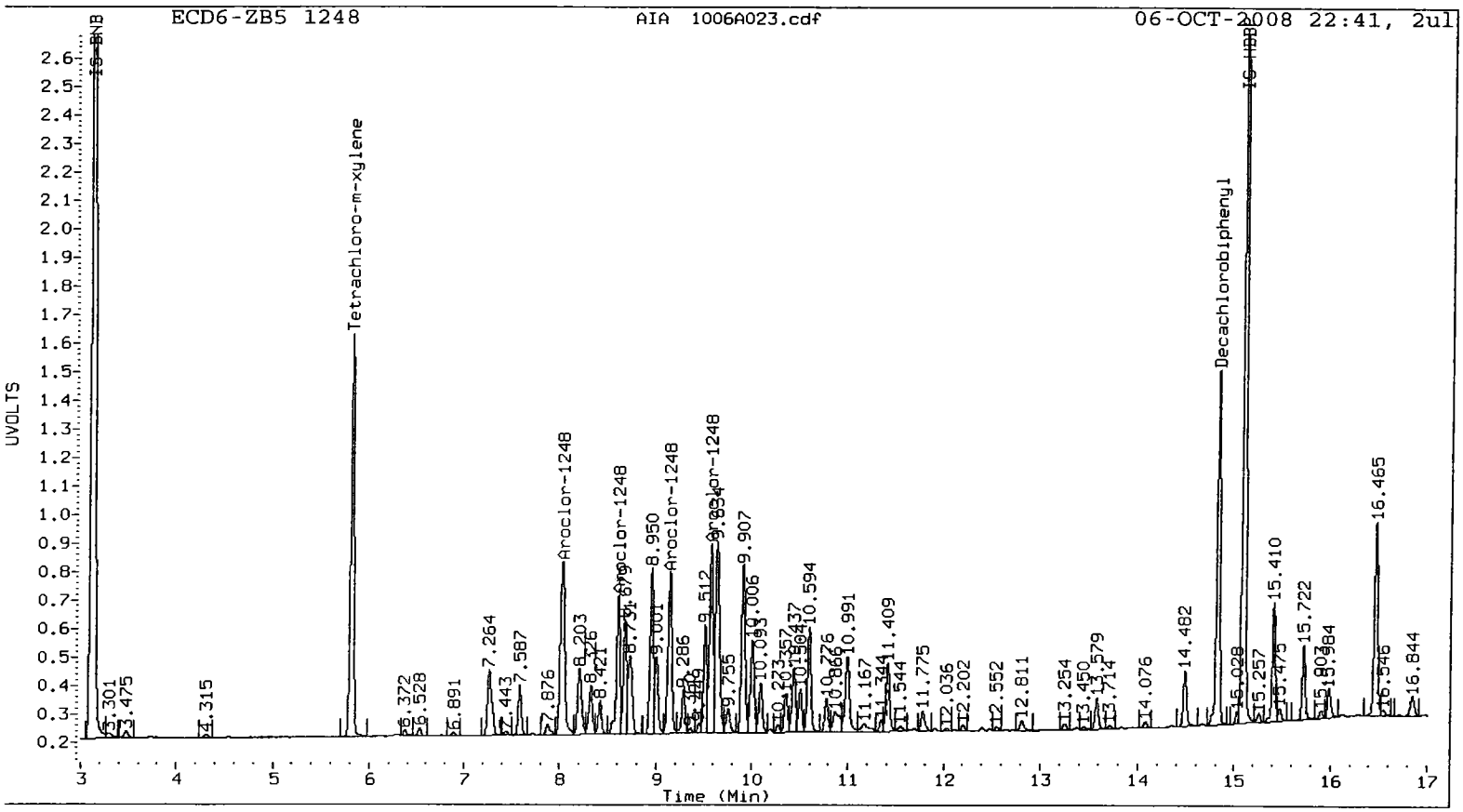
Tetrachloro-m-xylene
Aroclor-1248
Decachlorobiphenyl
IS-HBBP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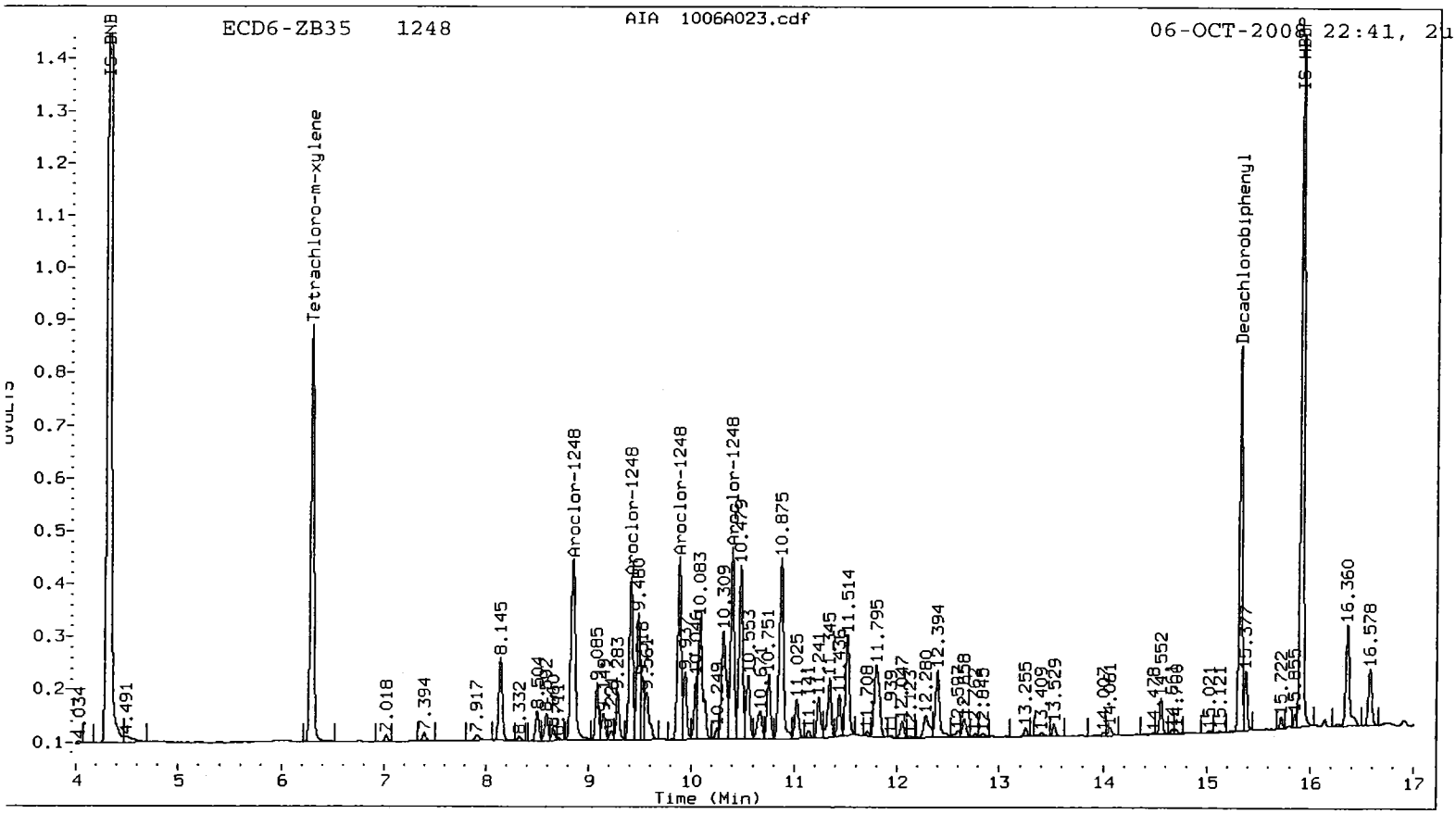
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1248
Decachlorobiphenyl
IS-HBB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06-OCT-2008 22:41, 2u
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1248
Decachlorobiphenyl
IS-HBB

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081006.B/ical-1.b/1006A024.d
Data file 2: 20081006.B/ical-2.b/1006A024.d
Method: /chem2/ecd6.i/20081006.B/PCB1.m
Compound Sublist: AR1254
Instrument, Inj. Vol.: ecd6.i, 2ul
Quant Method: Internal Std

ARI ID: 1254
Client ID:
Injection Date: 06-OCT-2008 23:04
Report Date: 10/07/2008 08:35
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.814	0.005	646599	6.293	0.001	354458	18.6	18.7	0.7	Tetrachloro-m-xylene
14.823	0.002	569569	15.320	-0.056	286446	18.3	17.9	2.4	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	46.5	46.9
Decachlorobiphenyl	45.8	44.8

10/07/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2417502	2350681	-2.8
Hexabromobiphenyl	1336983	1297905	-2.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1179079	1190930	1.0
Hexabromobiphenyl	604278	609602	0.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	10.006	0.000	526142	250.0	1	10.553	0.000	178352	250.0
Aroclor-1254	2	10.436	0.000	324732	250.0	2	10.751	0.000	221928	250.0
Aroclor-1254	3	10.593	0.000	604136	250.0	3	11.344	0.000	162970	250.0
Aroclor-1254	4	10.985	0.000	629957	250.0	4	11.514	0.000	356223	250.0
Aroclor-1254	5	11.343	0.000	257703	250.0	5	12.400	0.000	210262	250.0

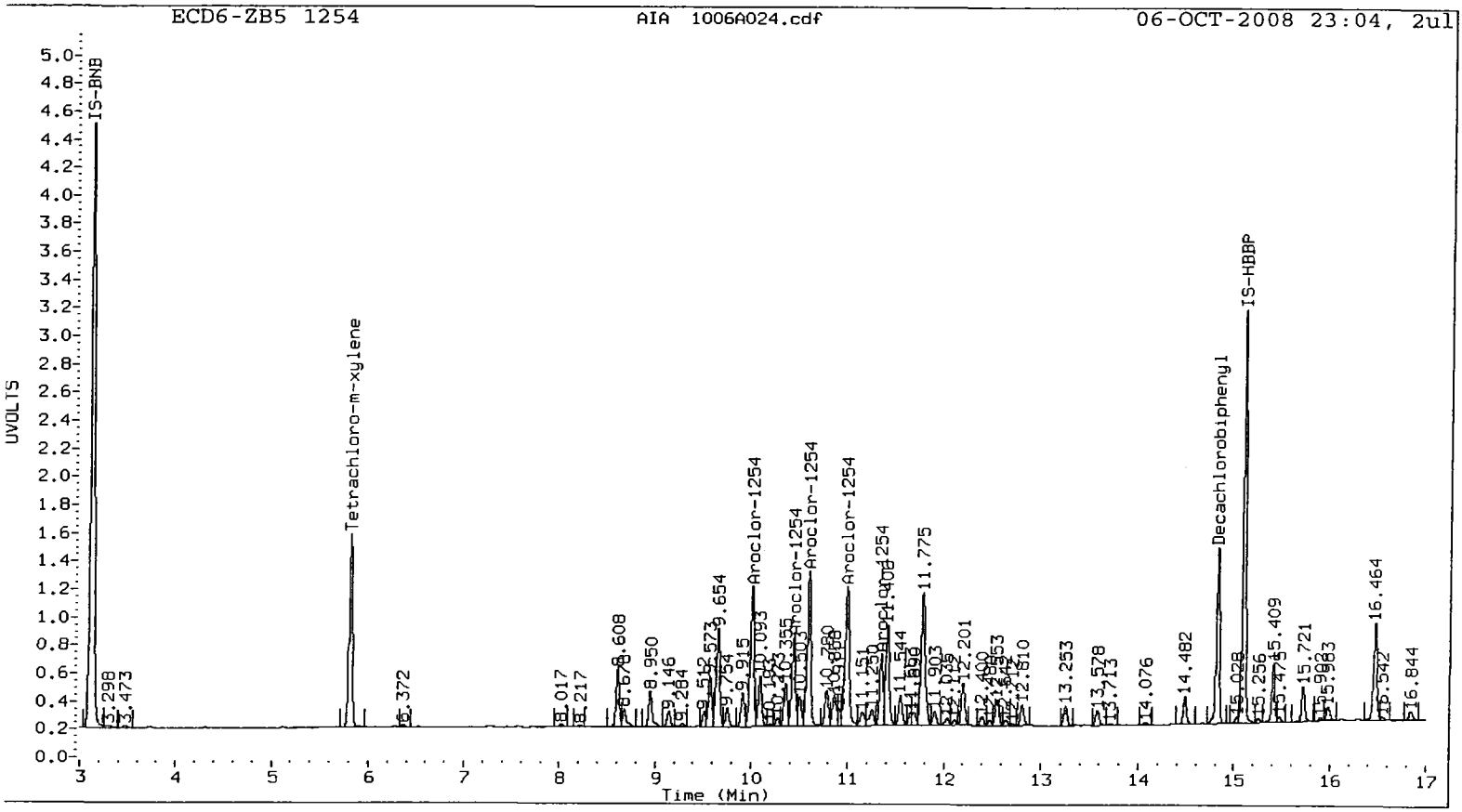
Total Col1Ave (5 peaks): 250.0 Total Col2Ave (5 peaks): 250.0 RPD = 0

Corrected Ave (4 peaks): 250.0 Corrected Ave (4 peaks): 250.0 RPD = 0

Total PCB Area Col1 (5.909 - 14.721) = 6544967 Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (6.393 - 15.276) = 3474106 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical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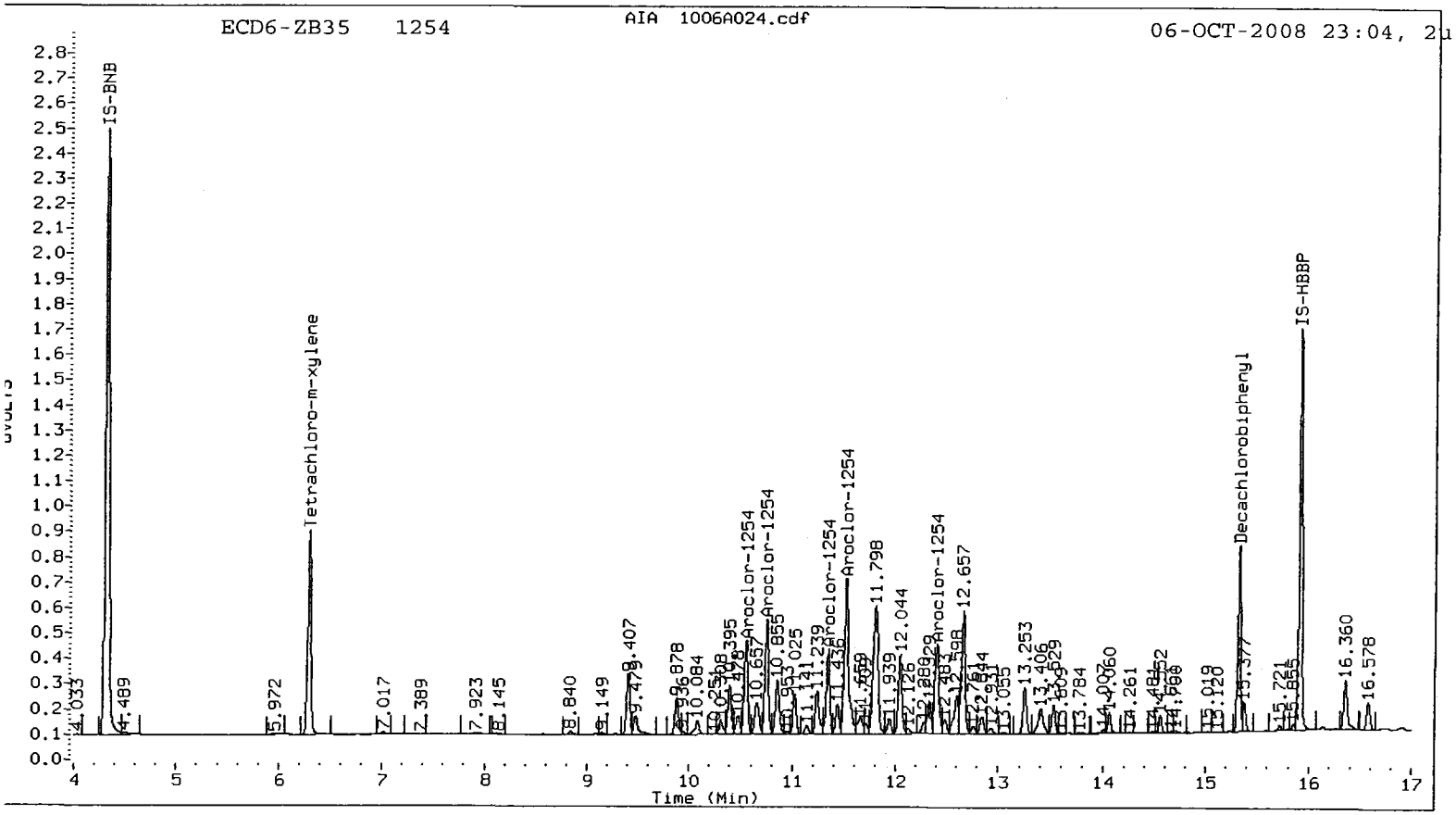
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1254
Decachlorobiphenyl
IS-HBBP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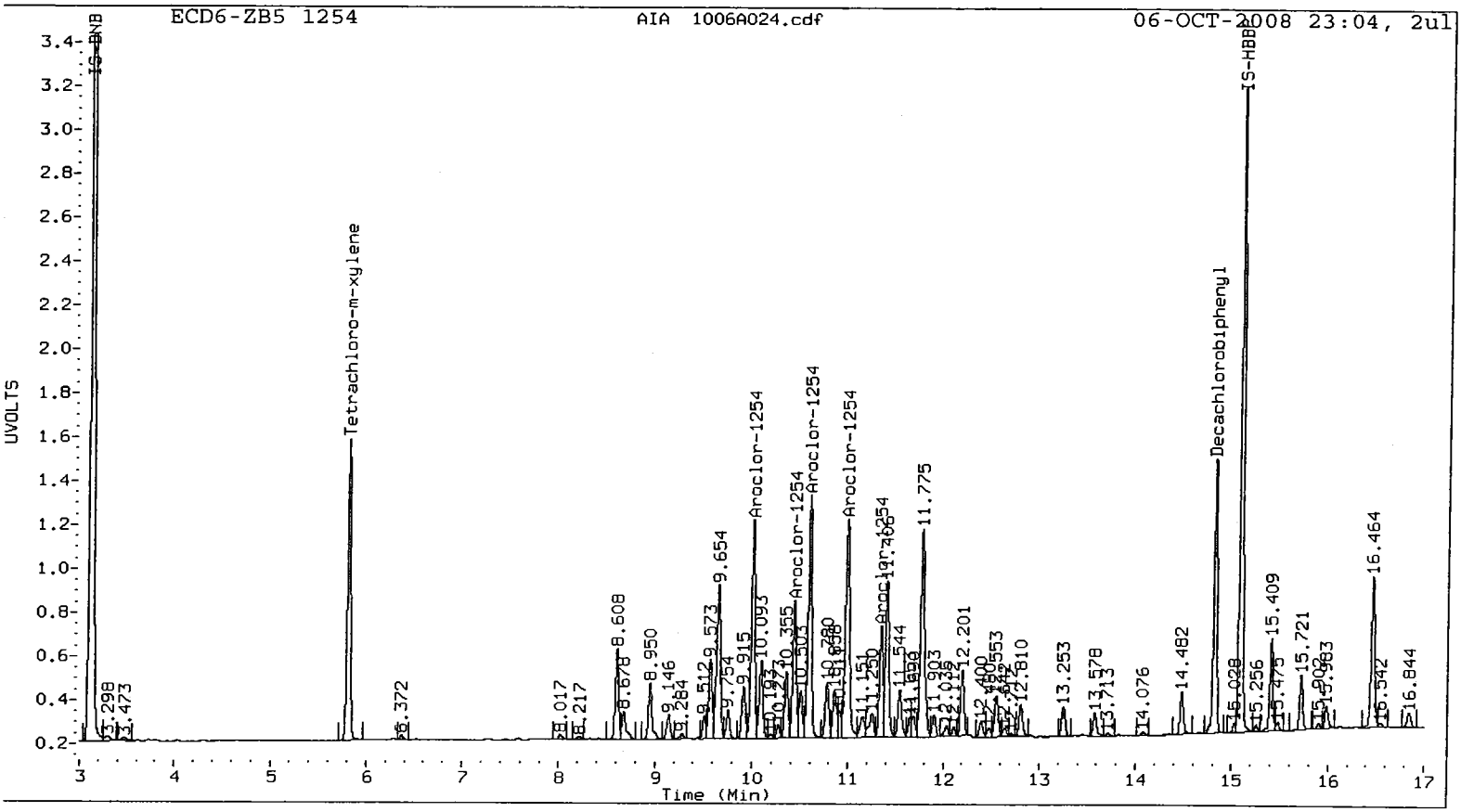
IS-BNB
Tetrachloro-m-xylene
Aroclor-1254
Decachlorobiphenyl
IS-HBBP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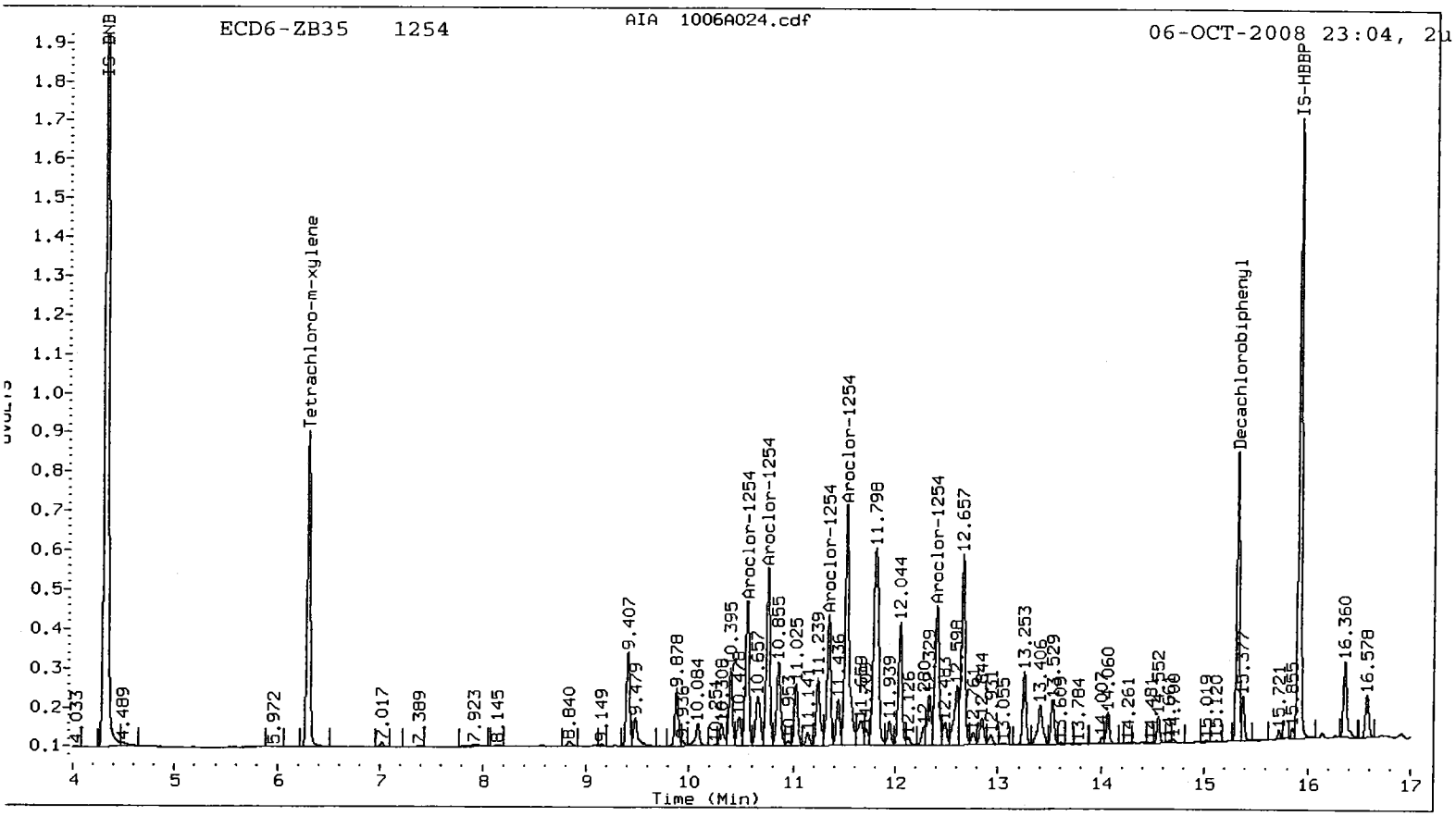
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1254
Decachlorobiphenyl
IS-HBBP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Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1254
Decachlorobiphenyl
IS-HBBP

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081006.B/ical-1.b/1006A025.d
Data file 2: 20081006.B/ical-2.b/1006A025.d
Method: /chem2/ecd6.i/20081006.B/PCB1.m
Compound Sublist: AR2162
Instrument, Inj. Vol.: ecd6.i, 2ul
Quant Method: Internal Std

ARI ID: 2162
Client ID:
Injection Date: 06-OCT-2008 23:26
Report Date: 10/07/2008 08:35
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.813	0.005	678540	6.294	0.001	364869	19.7	19.3	2.1	Tetrachloro-m-xylene
14.824	0.002	575848	15.320	-0.056	293872	18.8	18.3	2.6	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	49.3	48.3
Decachlorobiphenyl	47.0	45.8

pc 10/07/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2417502	2326009	-3.8
Hexabromobiphenyl	1336983	1279160	-4.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1179079	1188903	0.8
Hexabromobiphenyl	604278	611159	1.1

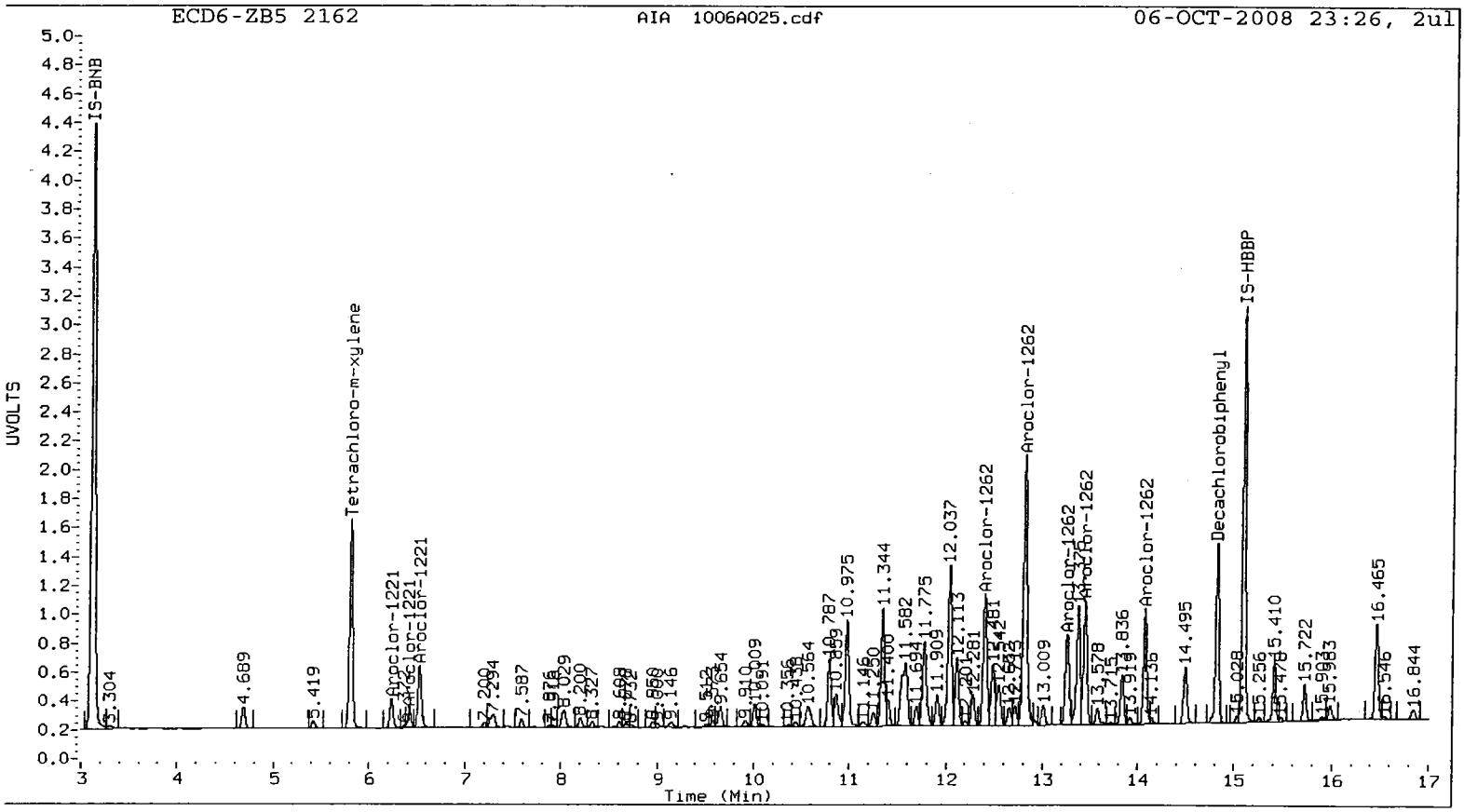
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	ZB5 Col Shift	Area	Amount	Peak#	RT	ZB35 Col Shift	Area	Amount
Aroclor-1221	1	6.236	0.000	97875	250.0	1	7.020	0.000	57561	250.0
Aroclor-1221	2	6.424	0.000	63032	250.0	2	7.279	0.000	33613	250.0
Aroclor-1221	3	6.528	0.000	224259	250.0	3	7.395	0.000	108034	250.0
Aroclor-1221	NS	---			----	4	8.155	0.000	38332	250.0
Total Col1Ave (3 peaks): 250.0						Total Col2Ave (4 peaks): 250.0 RPD = 0				
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks): 250.0				
Aroclor-1262	1	12.399	0.000	487261	250.0	1	12.762	0.000	320441	250.0
Aroclor-1262	2	12.811	0.000	1062218	250.0	2	13.258	0.000	295557	250.0
Aroclor-1262	3	13.255	0.000	360674	250.0	3	13.529	0.000	555586	250.0
Aroclor-1262	4	13.447	0.000	449129	250.0	4	14.064	0.000	377934	250.0
Aroclor-1262	5	14.073	0.000	370838	250.0	5	14.660	0.000	205183	250.0
Total Col1Ave (5 peaks): 250.0						Total Col2Ave (5 peaks): 250.0 RPD = 0				
Corrected Ave (4 peaks): 250.0						Corrected Ave (4 peaks): 250.0 RPD = 0				

Total PCB Area Col1 (5.909 - 14.721) = 8667220 Col1 Total PCB = 0.4 ppm*

Total PCB Area Col2 (6.393 - 15.276) = 4538873 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical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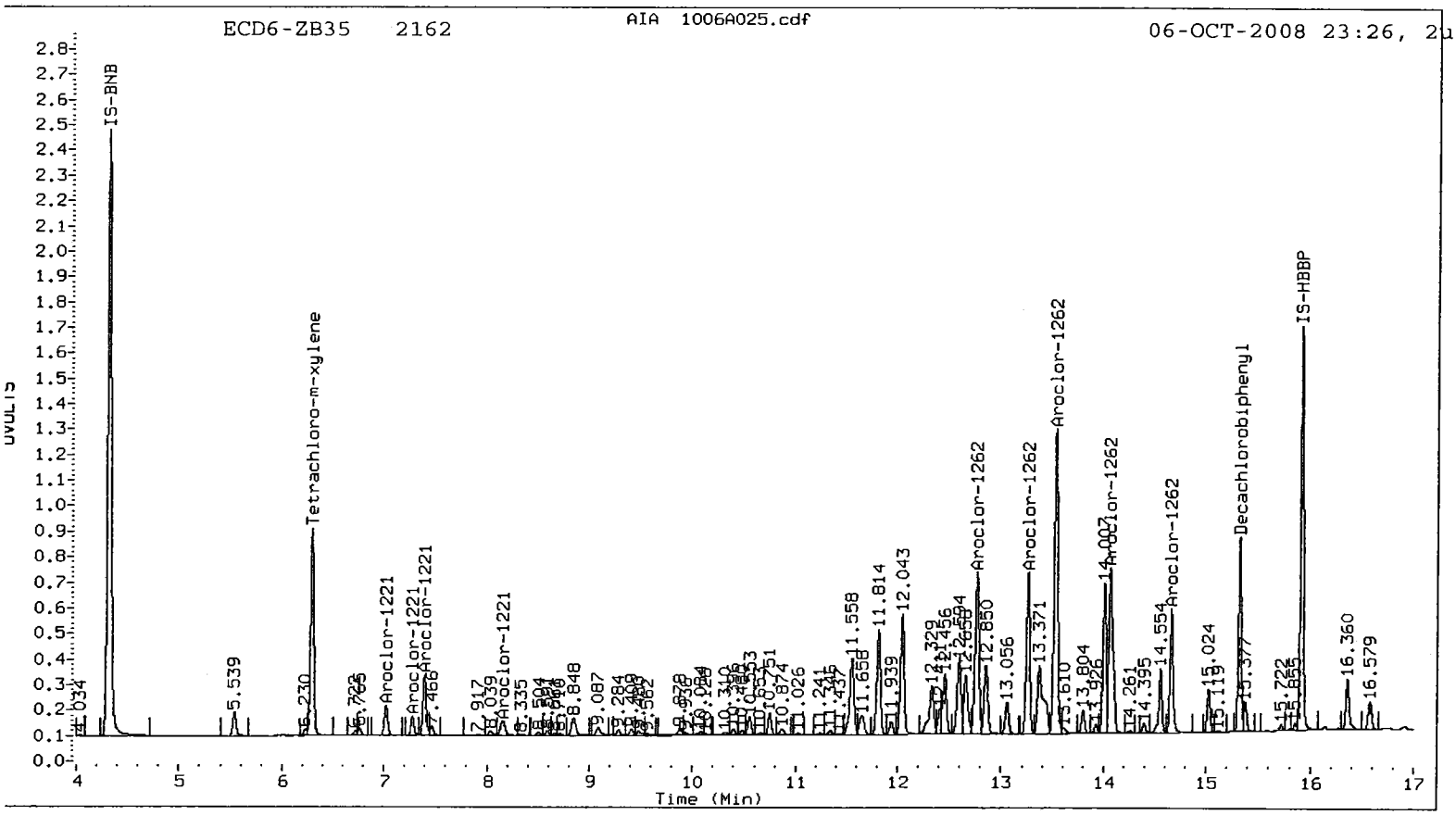
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1262
Decachlorobiphenyl
IS-HBBP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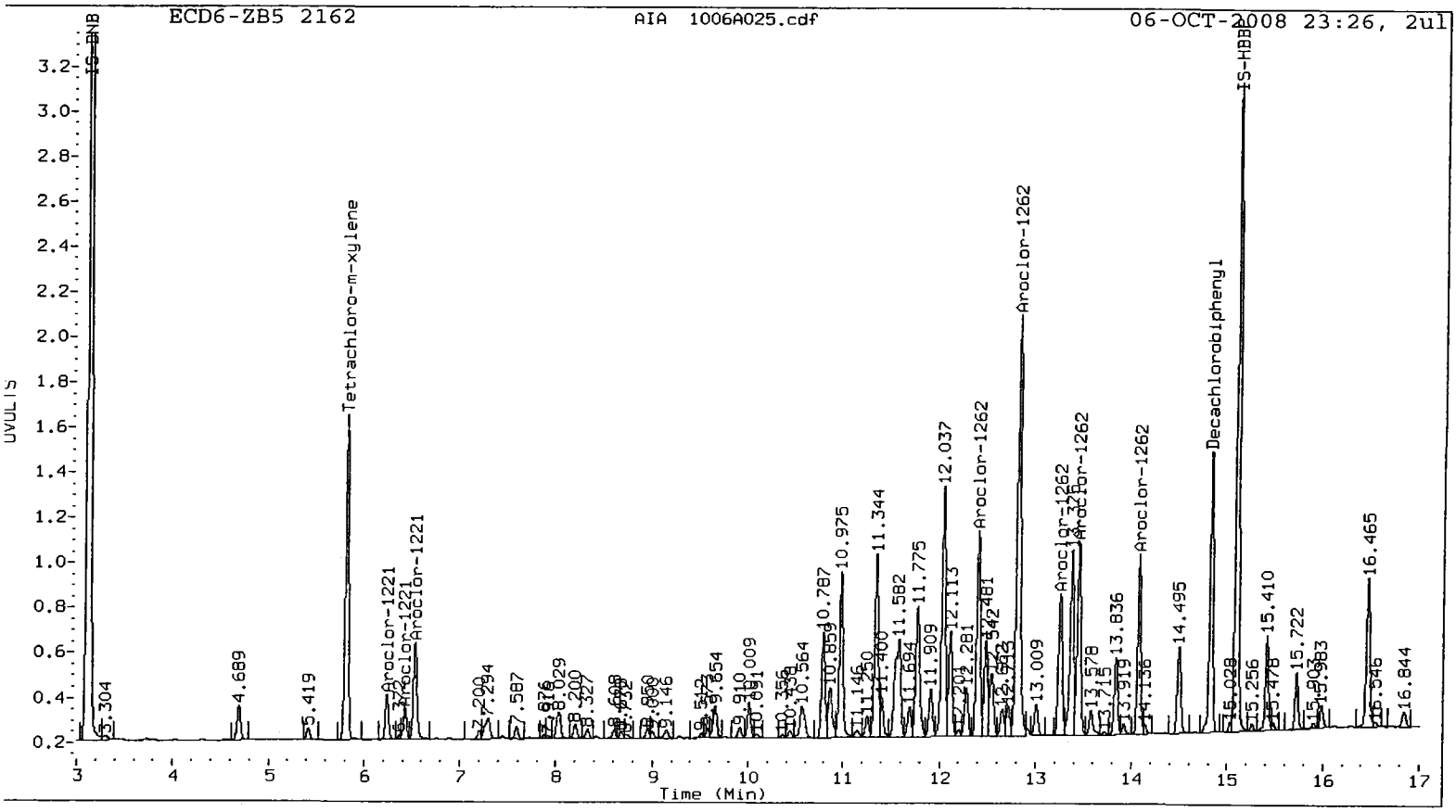
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1262
Decachlorobiphenyl
IS-HBBP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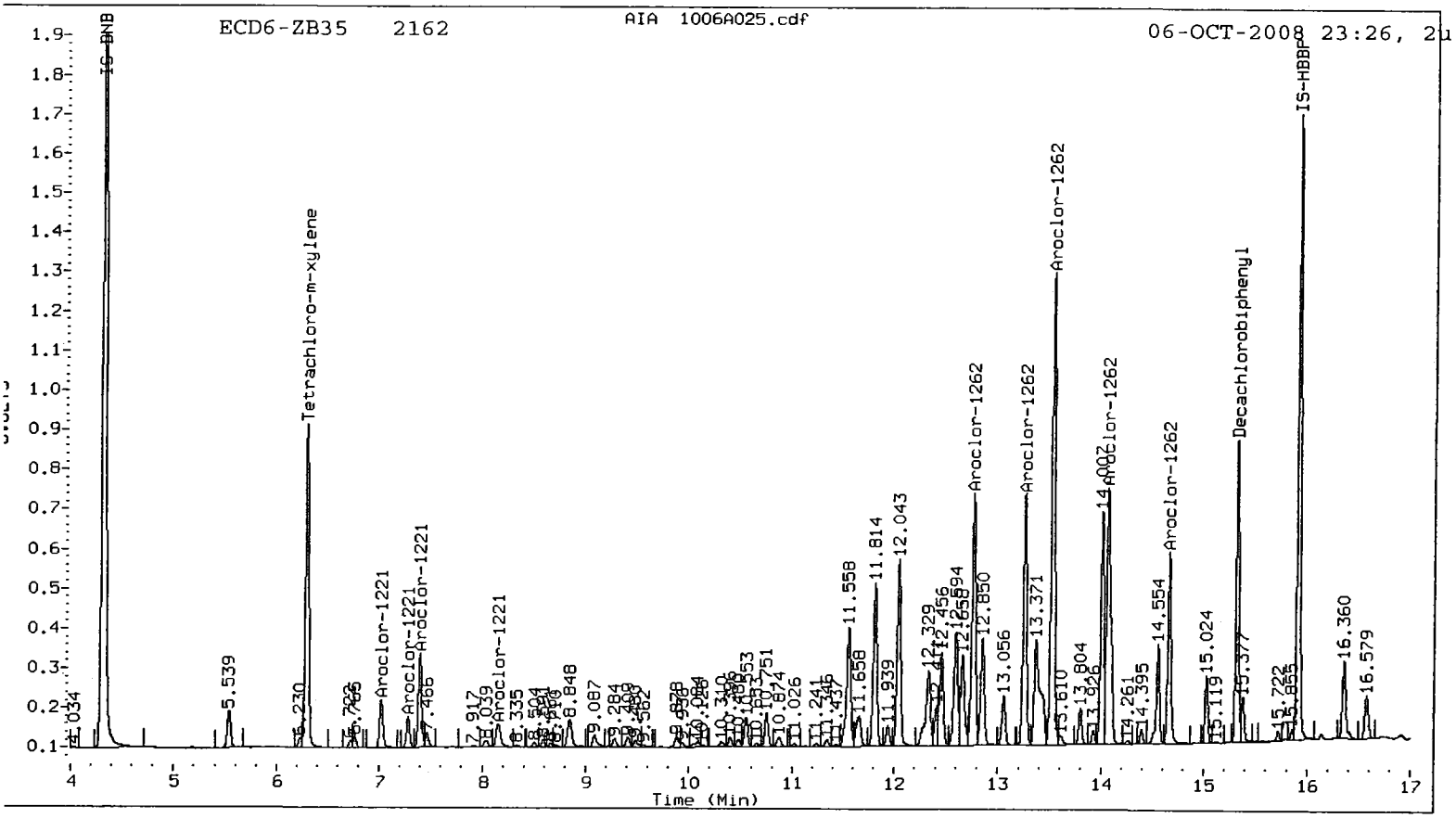
IS-BNB
IS-HBB
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1262
Decachlorobiphenyl
Time (Min)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IS-BNB
IS-HBB
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1262
Decachlorobiphenyl
Time (Min)

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081006.B/ical-1.b/1006A026.d
Data file 2: 20081006.B/ical-2.b/1006A026.d
Method: /chem2/ecd6.i/20081006.B/PCB1.m
Compound Sublist: AR3268
Instrument, Inj. Vol.: ecd6.i, 2ul
Quant Method: Internal Std

ARI ID: 3268
Client ID:
Injection Date: 06-OCT-2008 23:48
Report Date: 10/07/2008 08:35
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.814	0.005	661257	6.294	0.001	360692	19.5	19.0	2.6	Tetrachloro-m-xylene
14.823	0.002	1049522	15.321	-0.055	550057	34.6	34.4	0.6	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	48.8	47.5
Decachlorobiphenyl	86.4	85.9

pc 10/07/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2417502	2292932	-5.2
Hexabromobiphenyl	1336983	1268958	-5.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1179079	1194528	1.3
Hexabromobiphenyl	604278	610023	1.0

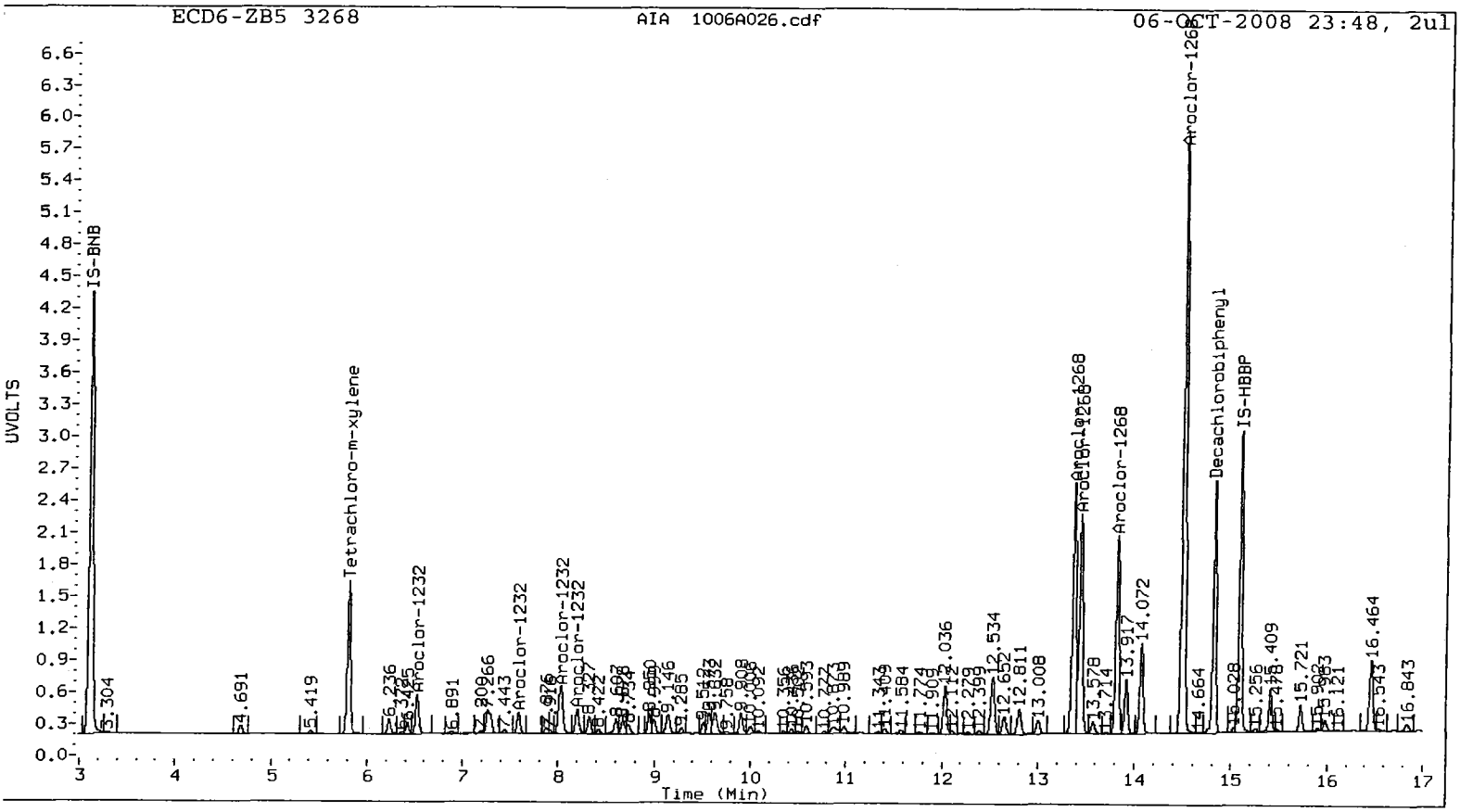
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1232	1	6.528	0.000	191542	250.0	1	7.395	0.000	95232	250.0
Aroclor-1232	2	7.588	0.000	97561	250.0	2	8.148	0.000	95535	250.0
Aroclor-1232	3	8.028	0.000	298453	250.0	3	8.848	0.000	167032	250.0
Aroclor-1232	4	8.201	0.000	125329	250.0	4	9.283	0.000	42048	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0
Aroclor-1268	1	13.374	0.000	1199231	250.0	1	14.006	0.000	619684	250.0
Aroclor-1268	2	13.445	0.000	1065985	250.0	2	14.064	0.000	572107	250.0
Aroclor-1268	3	13.819	0.000	901996	250.0	3	14.396	0.000	468404	250.0
Aroclor-1268	4	14.500	0.000	2577530	250.0	4	15.024	0.000	1333387	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.909 - 14.721) = 9735089 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (6.393 - 15.276) = 5187374 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical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06-OCT-2008 23:48, 2ul
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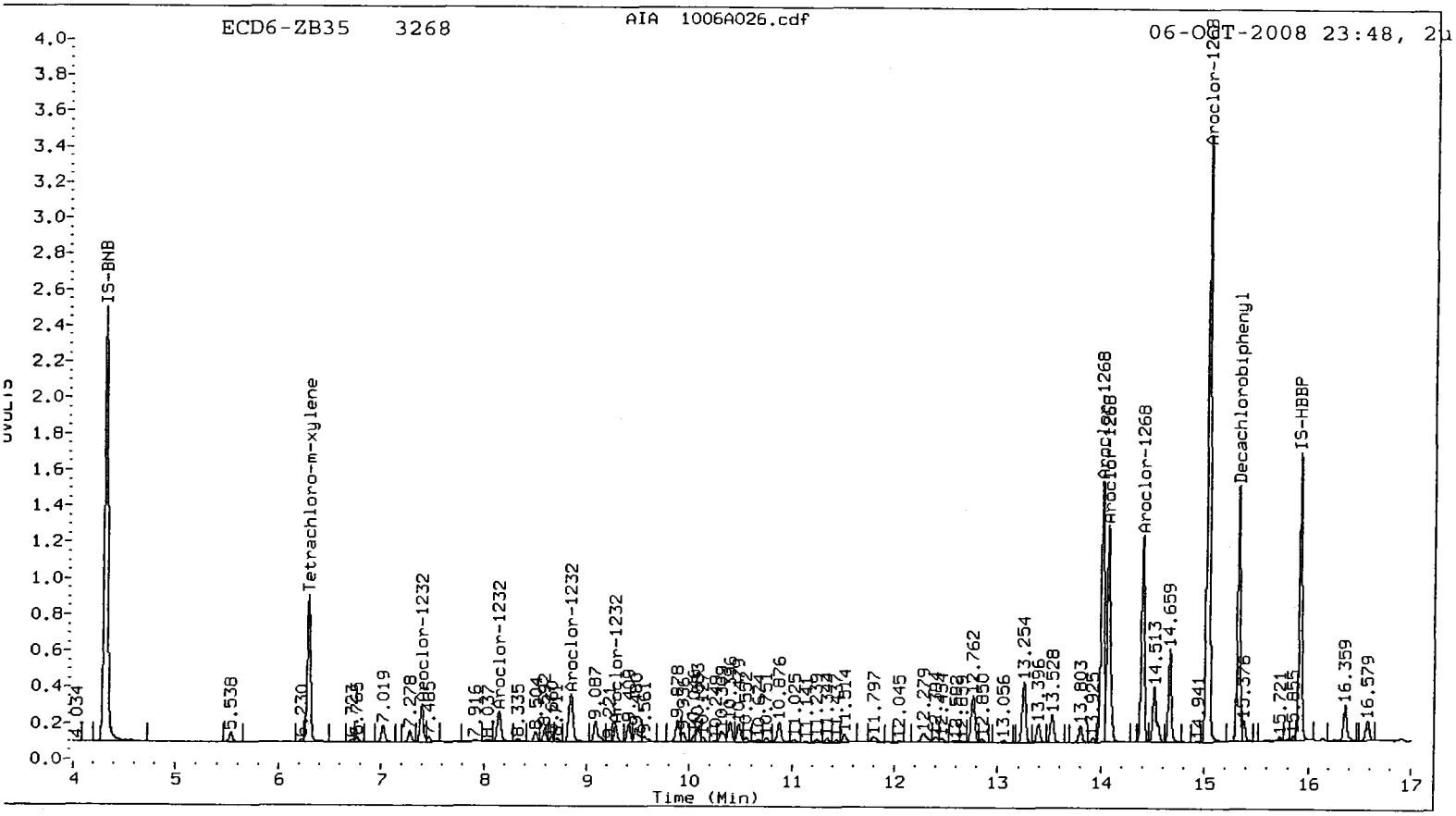
Tetrachloro-m-xylene
Aroclor-1232
Aroclor-1268
Decachlorobiphenyl
IS-HBBP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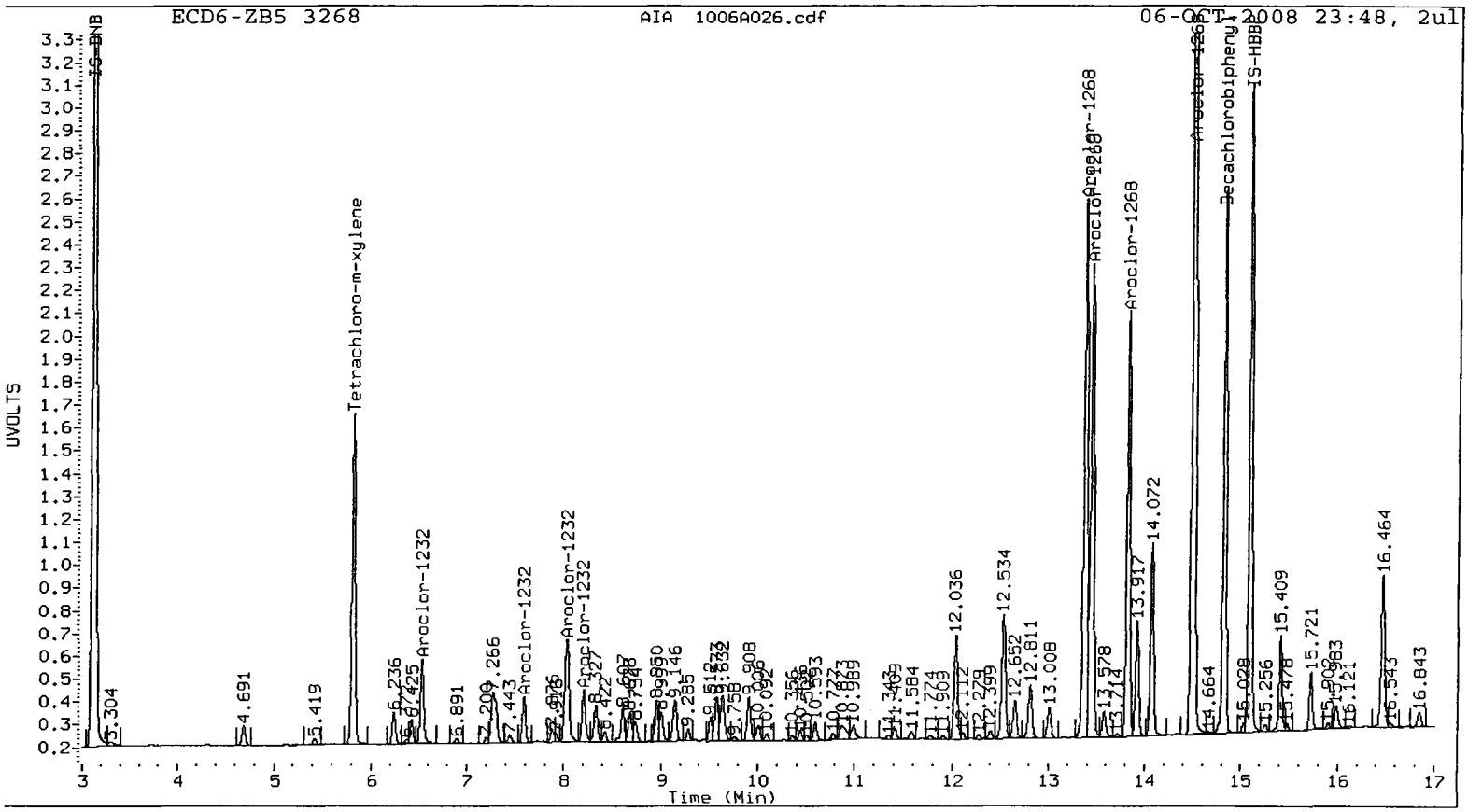
Tetrachloro-m-xylene
Aroclor-1232
Aroclor-1268
Decachlorobiphenyl
IS-HBBP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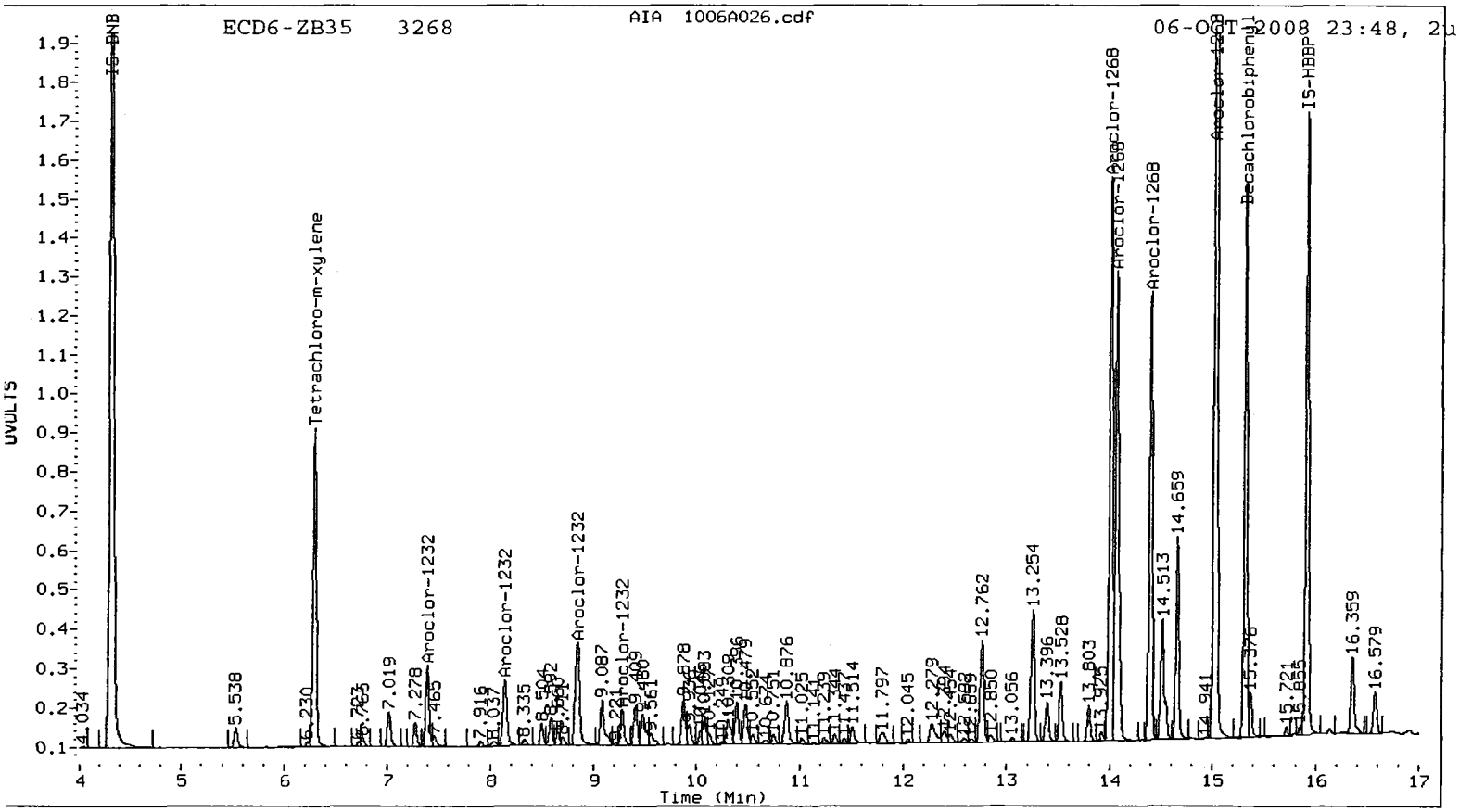
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1232
Aroclor-1268
Decachlorobiphenyl
IS-HBBP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Tetrachloro-m-xylene
Aroclor-1232
Aroclor-1268
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IS-HBBP

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR EVIRONMENTAL

ARI Job No.: NS52 Project: EDDON BOATYARD

GC Column: ZB5 Intrument: ECD6

Init. Calib. Date: 10/06/08

Date Analyzed :10/08/08

Lab Standard ID: AR1660 Time Analyzed :0342

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1016-1	7.59	7.49	7.69	225.0	250.0	-10.0
Aroclor-1016-2	8.20	8.10	8.30	231.3	250.0	-7.5
Aroclor-1016-3	8.33	8.23	8.43	232.8	250.0	-6.9

AVERAGE %D = 8.1

Date Analyzed :10/08/08

Lab Standard ID: AR1660 Time Analyzed :0342

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1260-1	12.04	11.94	12.14	230.7	250.0	-7.7
Aroclor-1260-2	12.40	12.30	12.50	229.7	250.0	-8.1
Aroclor-1260-3	12.81	12.71	12.91	230.7	250.0	-7.7
Aroclor-1260-4	13.26	13.16	13.36	232.2	250.0	-7.1
Aroclor-1260-5	13.45	13.35	13.55	227.4	250.0	-9.0

AVERAGE %D = 7.9

FORM VII PCB

7F

PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR EVIRONMENTAL

ARI Job No.: NS52 Project: EDDON BOATYARD

GC Column: ZB35 Intrument: ECD6

Init. Calib. Date: 10/06/08

Date Analyzed :10/08/08

Lab Standard ID: AR1660 Time Analyzed :0342

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1016-1	8.15	8.05	8.25	219.4	250.0	-12.2
Aroclor-1016-2	8.85	8.75	8.95	222.3	250.0	-11.1
Aroclor-1016-3	9.29	9.19	9.39	228.9	250.0	-8.4
Aroclor-1016-4	9.41	9.31	9.51	217.9	250.0	-12.8

AVERAGE %D = 11.1

Date Analyzed :10/08/08

Lab Standard ID: AR1660 Time Analyzed :0342

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1260-1	12.77	12.67	12.87	212.6	250.0	-15.0
Aroclor-1260-2	13.26	13.16	13.36	215.3	250.0	-13.9
Aroclor-1260-3	13.53	13.43	13.63	220.5	250.0	-11.8
Aroclor-1260-4	14.06	13.97	14.17	216.5	250.0	-13.4

AVERAGE %D = 13.5

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081006.B/1007-1.b/1007A043.d
Data file 2: 20081006.B/1007-2.b/1007A043.d
Method: /chem2/ecd6.i/20081006.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd6.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660
Client ID:
Injection Date: 08-OCT-2008 03:42
Report Date: 10/08/2008 12:54
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.816	-0.002	556179	6.298	-0.002	363529	18.5	17.1	7.7	Tetrachloro-m-xylene
14.824	0.000	490055	15.324	-0.001	304829	18.5	16.9	8.8	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	46.2	42.8
Decachlorobiphenyl	46.2	42.3

pc 10/08/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2417502	2035402	-15.8
Hexabromobiphenyl	1336983	1107625	-17.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1179079	1337269	13.4
Hexabromobiphenyl	604278	685974	13.5

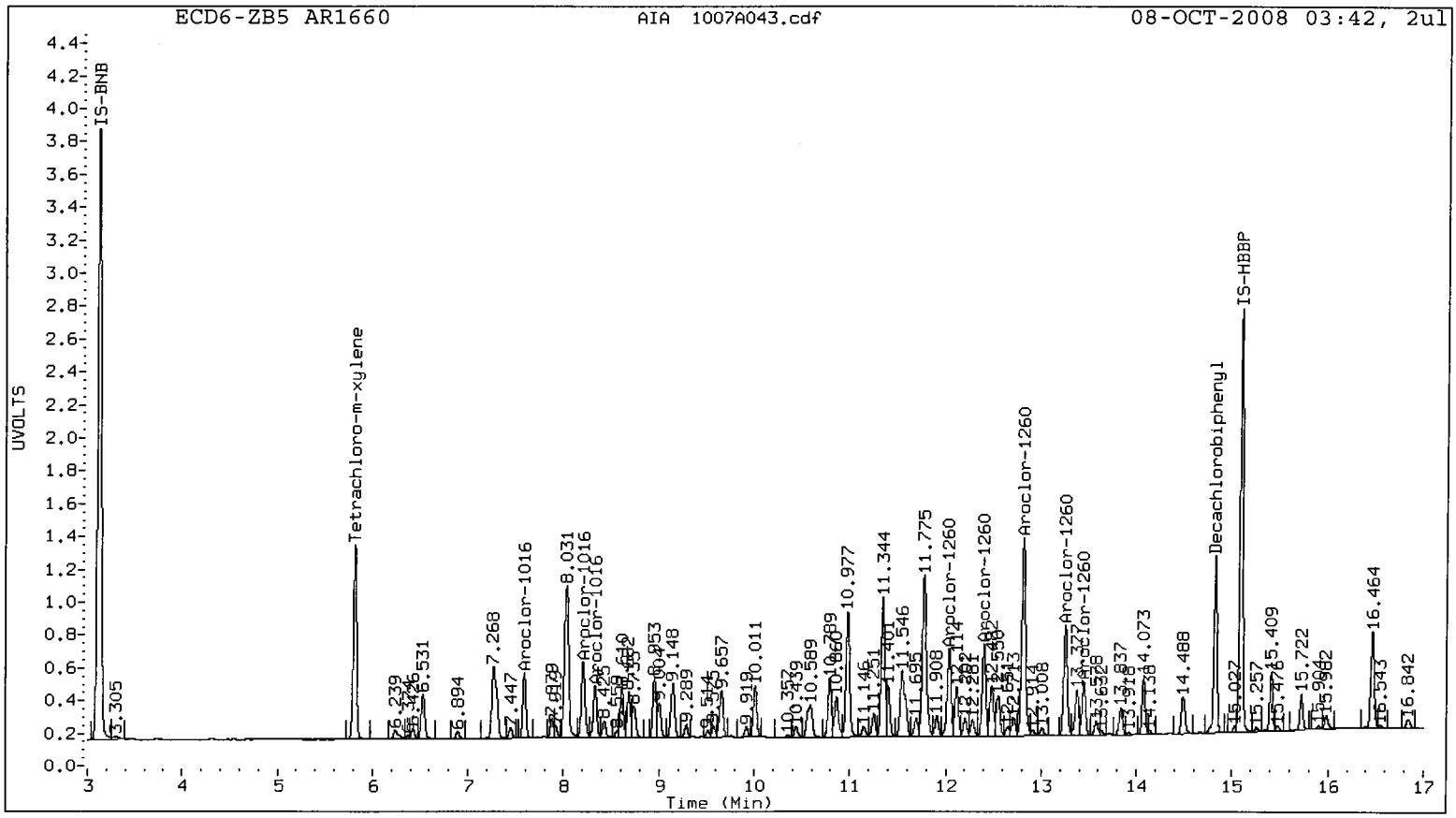
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.590	-0.002	188660	225.0	1	8.151	-0.001	210386	219.4
Aroclor-1016	2	8.204	-0.001	244545	231.3	2	8.851	0.000	407125	222.3
Aroclor-1016	3	8.330	-0.002	163366	232.8	3	9.288	-0.001	102306	228.9
Aroclor-1016	NS	---			----	4	9.414	-0.001	126299	217.9
Total Col1Ave (3 peaks):		229.7			Total Col2Ave (4 peaks):		222.1	RPD = 3		
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):		219.8			
Aroclor-1260	1	12.037	-0.002	295427	230.7	1	12.765	-0.002	187057	212.6
Aroclor-1260	2	12.401	0.000	295054	229.7	2	13.261	-0.002	224518	215.3
Aroclor-1260	3	12.812	-0.001	686227	230.7	3	13.533	-0.001	446302	220.5
Aroclor-1260	4	13.256	-0.002	368060	232.2	4	14.064	-0.001	299782	216.5
Aroclor-1260	5	13.447	-0.002	171320	227.4	NS	---			----
Total Col1Ave (5 peaks):		230.1			Total Col2Ave (4 peaks):		216.2	RPD = 6		
Corrected Ave (4 peaks):		229.6			Corrected Ave (3 peaks):		214.8	RPD = 7		

Total PCB Area Col1 (5.918 - 14.725) = 8991038 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (6.399 - 15.225) = 5903449 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical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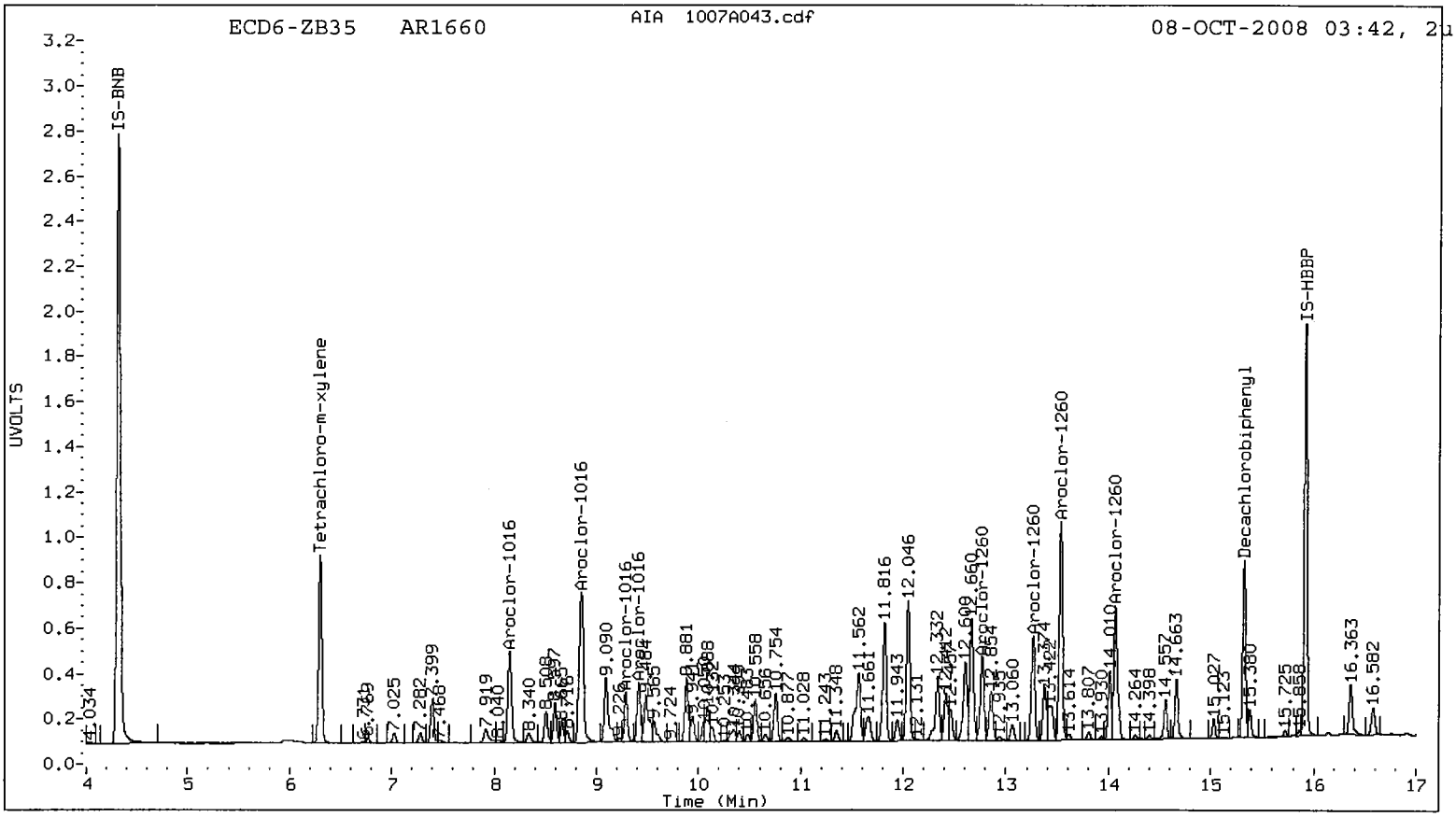
Decachlorobiphenyl
IS-HBBP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Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR EVIRONMENTAL

ARI Job No.: NS52 Project: EDDON BOATYARD

GC Column: ZB5 Intrument: ECD6

Init. Calib. Date: 10/06/08

Date Analyzed :10/08/08

Lab Standard ID: AR1242 Time Analyzed :0404

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1242-1	7.59	7.49	7.69	236.8	250.0	-5.3
Aroclor-1242-2	8.03	7.93	8.13	244.0	250.0	-2.4
Aroclor-1242-3	8.20	8.10	8.30	240.2	250.0	-3.9
Aroclor-1242-4	9.15	9.05	9.25	234.1	250.0	-6.4

AVERAGE %D = 4.5

FORM VII PCB

7F

PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR EVIRONMENTAL

ARI Job No.: NS52 Project: EDDON BOATYARD

GC Column: ZB35 Intrument: ECD6

Init. Calib. Date: 10/06/08

Date Analyzed :10/08/08

Lab Standard ID: AR1242 Time Analyzed :0404

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1242-1	15.32	15.22	15.42	230.6	250.0	-7.8
Aroclor-1242-2	8.85	8.75	8.95	237.8	250.0	-4.9
Aroclor-1242-3	9.29	9.19	9.39	237.1	250.0	-5.1
Aroclor-1242-4	9.41	9.31	9.51	230.1	250.0	-8.0
Aroclor-1242-5	10.40	10.30	10.50	236.7	250.0	-5.3

AVERAGE %D = 6.2

FORM VII PCB

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081006.B/1007-1.b/1007A044.d
Data file 2: 20081006.B/1007-2.b/1007A044.d
Method: /chem2/ecd6.i/20081006.B/PCB1.m
Compound Sublist: AR1242
Instrument, Inj. Vol.: ecd6.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242
Client ID:
Injection Date: 08-OCT-2008 04:04
Report Date: 10/08/2008 12:54
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.817	-0.002	524395	6.298	-0.001	347506	17.9	17.0	5.1	Tetrachloro-m-xylene
14.824	-0.001	458325	15.323	-0.002	283281	18.0	16.3	9.8	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	44.7	42.5
Decachlorobiphenyl	45.0	40.8

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2417502	1983085	-18.0
Hexabromobiphenyl	1336983	1064792	-20.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1179079	1287469	9.2
Hexabromobiphenyl	604278	661932	9.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1242	1	7.591	0.000	141178	236.8	1	15.323	0.000	283281	230.6
Aroclor-1242	2	8.030	0.000	442090	244.0	2	8.850	0.000	302024	237.8
Aroclor-1242	3	8.203	0.000	182810	240.2	3	9.287	0.000	76193	237.1
Aroclor-1242	4	9.149	0.000	165196	234.1	4	9.414	0.000	91648	230.1
Aroclor-1242	NS	---			----	5	10.399	0.000	101227	236.7

Total Col1Ave (4 peaks): 238.7 Total Col2Ave (5 peaks): 234.5 RPD = 2

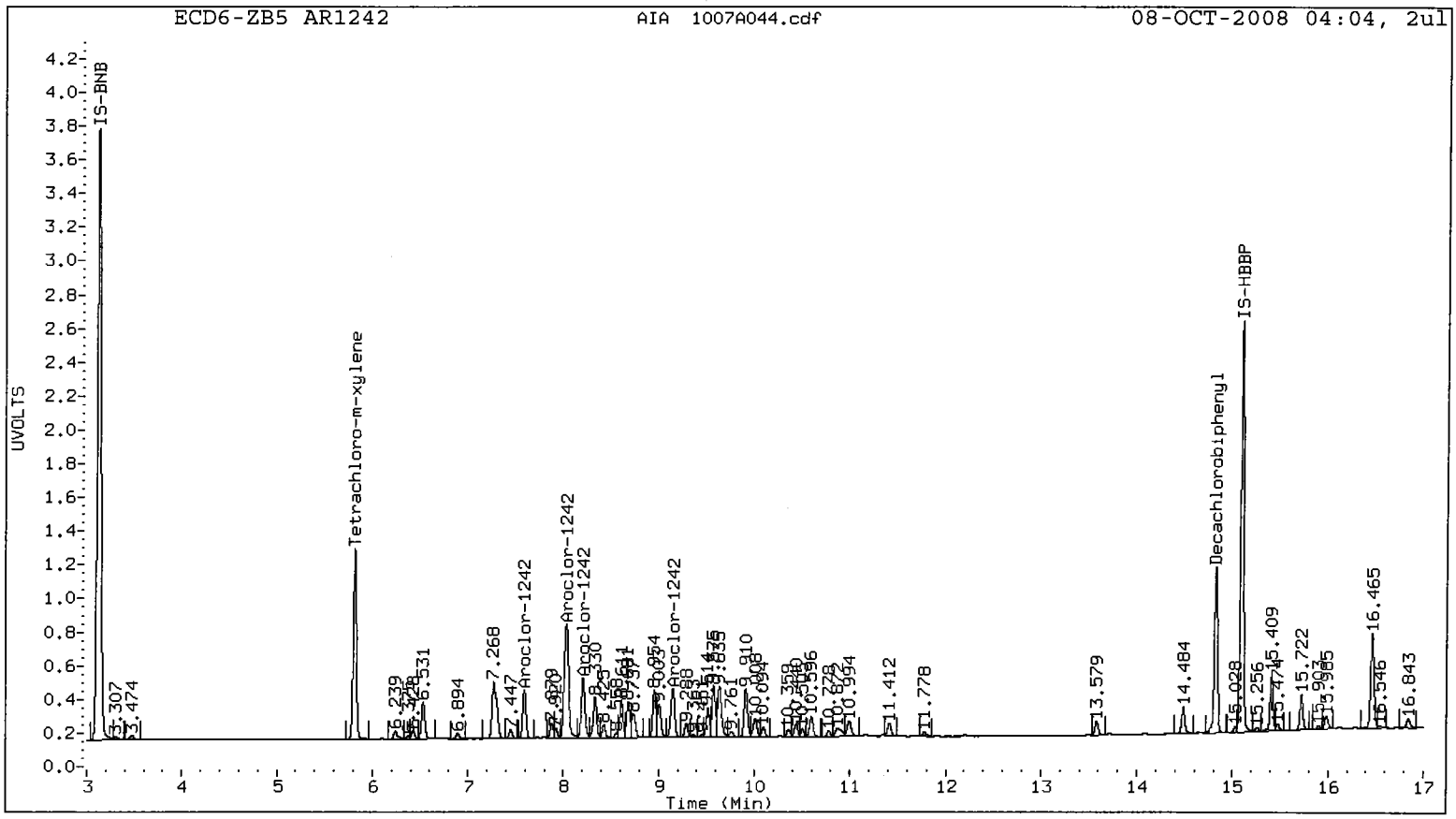
Corrected Ave (3 peaks): 237.0 Corrected Ave (4 peaks): 233.6 RPD = 1

Total PCB Area Col1 (5.918 - 14.725) = 3316796 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (6.399 - 15.225) = 2219894 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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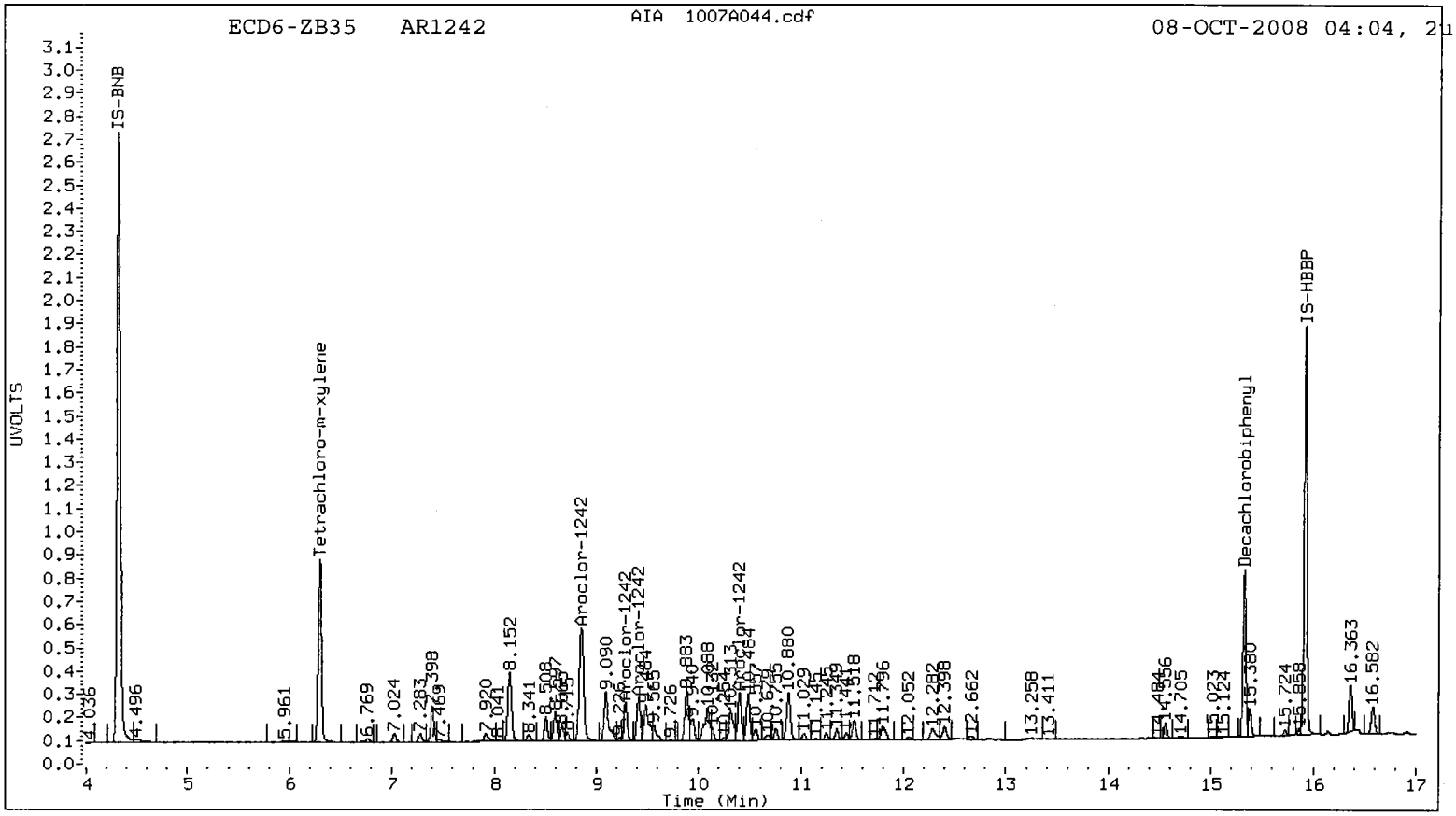
Aroclor-1242
Decachlorobiphenyl
IS-HBBP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Time (Min)
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Tetrachloro-m-xylene
Aroclor-1242
Decachlorobiphenyl
IS-HBBP

7F

PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR EVIRONMENTAL

ARI Job No.: NS52 Project: EDDON BOATYARD

GC Column: ZB5 Intrument: ECD6

Init. Calib. Date: 10/06/08

Date Analyzed :10/08/08

Lab Standard ID: AR1660 Time Analyzed :1128

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1016-1	7.59	7.49	7.69	223.2	250.0	-10.7
Aroclor-1016-2	8.20	8.10	8.30	232.2	250.0	-7.1
Aroclor-1016-3	8.33	8.23	8.43	234.0	250.0	-6.4

AVERAGE %D = 8.1

Date Analyzed :10/08/08

Lab Standard ID: AR1660 Time Analyzed :1128

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1260-1	12.04	11.94	12.14	232.7	250.0	-6.9
Aroclor-1260-2	12.40	12.30	12.50	232.4	250.0	-7.0
Aroclor-1260-3	12.81	12.71	12.91	233.7	250.0	-6.5
Aroclor-1260-4	13.26	13.16	13.36	234.8	250.0	-6.1
Aroclor-1260-5	13.45	13.35	13.55	227.2	250.0	-9.1

AVERAGE %D = 7.1

7F

PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR EVIRONMENTAL

ARI Job No.: NS52 Project: EDDON BOATYARD

GC Column: ZB35 Intrument: ECD6

Init. Calib. Date: 10/06/08

Date Analyzed :10/08/08

Lab Standard ID: AR1660 Time Analyzed :1128

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1016-1	8.15	8.05	8.25	215.1	250.0	-14.0
Aroclor-1016-2	8.85	8.75	8.95	221.9	250.0	-11.2
Aroclor-1016-3	9.29	9.19	9.39	228.1	250.0	-8.8
Aroclor-1016-4	9.41	9.31	9.51	214.4	250.0	-14.2

AVERAGE %D = 12.1

Date Analyzed :10/08/08

Lab Standard ID: AR1660 Time Analyzed :1128

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1260-1	12.77	12.67	12.87	217.7	250.0	-12.9
Aroclor-1260-2	13.26	13.16	13.36	219.6	250.0	-12.2
Aroclor-1260-3	13.53	13.43	13.63	224.8	250.0	-10.1
Aroclor-1260-4	14.07	13.97	14.17	218.7	250.0	-12.5

AVERAGE %D = 11.9

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081006.B/1007-1.b/1007A064.d
Data file 2: 20081006.B/1007-2.b/1007A064.d
Method: /chem2/ecd6.i/20081006.B/PCB1.m
Compound Sublist: AR1660
Instrument, Inj. Vol.: ecd6.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660
Client ID:
Injection Date: 08-OCT-2008 11:28
Report Date: 10/08/2008 12:54
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.818	0.000	574749	6.299	0.000	372758	18.2	16.8	8.0	Tetrachloro-m-xylene
14.825	0.000	498173	15.323	-0.001	299596	18.2	16.7	8.6	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	45.5	42.1
Decachlorobiphenyl	45.6	41.8

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2417502	2134428	-11.7
Hexabromobiphenyl	1336983	1142276	-14.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1179079	1395681	18.4
Hexabromobiphenyl	604278	682464	12.9

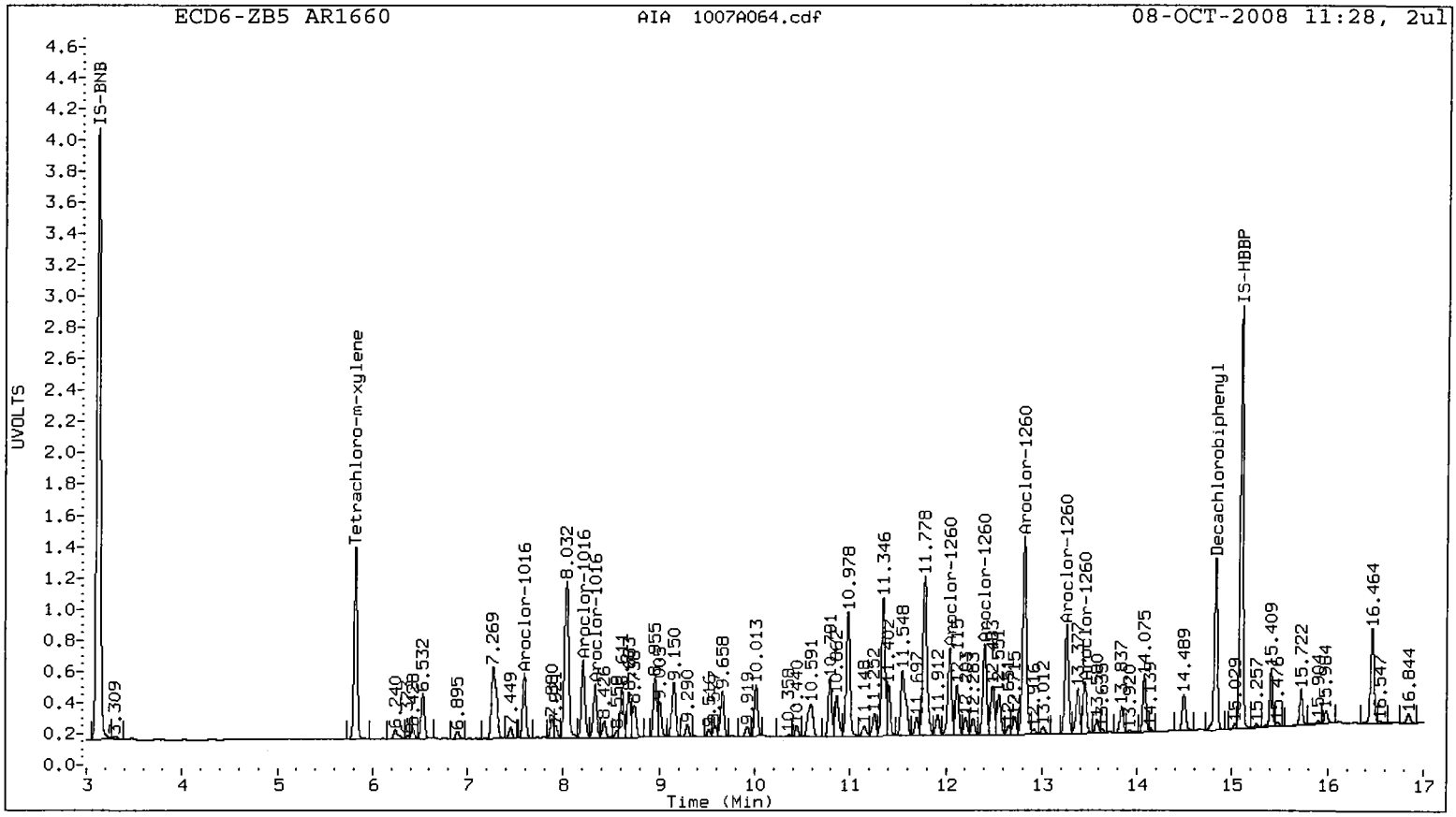
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.592	0.000	196338	223.2	1	8.152	0.000	215273	215.1
Aroclor-1016	2	8.204	0.000	257517	232.2	2	8.851	0.000	424137	221.9
Aroclor-1016	3	8.331	0.000	172233	234.0	3	9.288	0.000	106422	228.1
Aroclor-1016	NS	---			----	4	9.415	0.000	129686	214.4
	Total Col1Ave (3 peaks):				229.8	Total Col2Ave (4 peaks):				219.9 RPD = 4
	Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				217.1
Aroclor-1260	1	12.039	0.000	307376	232.7	1	12.767	0.000	190583	217.7
Aroclor-1260	2	12.401	0.000	307770	232.4	2	13.263	0.000	227782	219.6
Aroclor-1260	3	12.813	0.000	716916	233.7	3	13.534	0.000	452699	224.8
Aroclor-1260	4	13.258	0.000	383747	234.8	4	14.065	0.000	301304	218.7
Aroclor-1260	5	13.450	0.000	176571	227.2	NS	---			----
	Total Col1Ave (5 peaks):				232.2	Total Col2Ave (4 peaks):				220.2 RPD = 5
	Corrected Ave (4 peaks):				231.5	Corrected Ave (3 peaks):				218.7 RPD = 6

Total PCB Area Col1 (5.918 - 14.725) = 9393402 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (6.399 - 15.225) = 6028989 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical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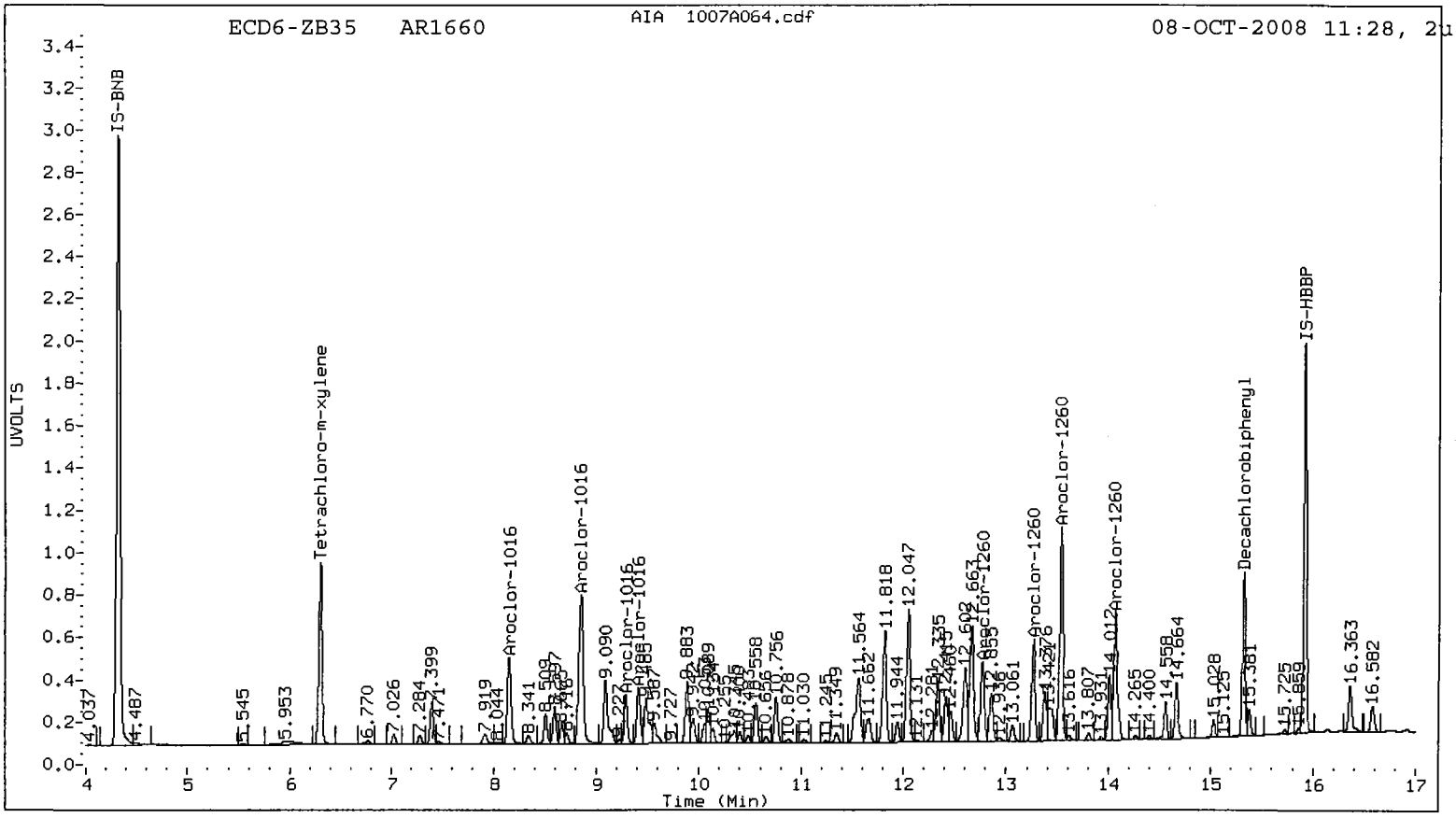
IS-HBBP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Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1260
Decachlorobiphenyl
IS-HBBP

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR EVIRONMENTAL

ARI Job No.: NS52 Project: EDDON BOATYARD

GC Column: ZB5 Intrument: ECD6

Init. Calib. Date: 10/06/08

Date Analyzed :10/08/08

Lab Standard ID: AR1254 Time Analyzed :1150

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1254-1	10.01	9.91	10.11	238.8	250.0	-4.5
Aroclor-1254-2	10.44	10.34	10.54	237.7	250.0	-4.9
Aroclor-1254-3	10.60	10.50	10.70	238.6	250.0	-4.6
Aroclor-1254-4	10.99	10.89	11.09	245.7	250.0	-1.7
Aroclor-1254-5	11.35	11.25	11.45	239.5	250.0	-4.2

AVERAGE %D = 4.0

FORM VII PCB

7F
PCB CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: ANCHOR EVIRONMENTAL

ARI Job No.: NS52 Project: EDDON BOATYARD

GC Column: ZB35 Intrument: ECD6

Init. Calib. Date: 10/06/08

Date Analyzed :10/08/08

Lab Standard ID: AR1254 Time Analyzed :1150

COMPOUND/PEAK NO.	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
Aroclor-1254-1	10.56	10.46	10.66	223.7	250.0	-10.5
Aroclor-1254-2	10.76	10.66	10.86	227.3	250.0	-9.1
Aroclor-1254-3	11.35	11.25	11.45	226.2	250.0	-9.5
Aroclor-1254-4	11.52	11.42	11.62	226.4	250.0	-9.4
Aroclor-1254-5	12.41	12.31	12.51	236.3	250.0	-5.5

AVERAGE %D = 8.8

FORM VII PCB

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081006.B/1007-1.b/1007A065.d
Data file 2: 20081006.B/1007-2.b/1007A065.d
Method: /chem2/ecd6.i/20081006.B/PCB1.m
Compound Sublist: AR1254
Instrument, Inj. Vol.: ecd6.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254
Client ID:
Injection Date: 08-OCT-2008 11:50
Report Date: 10/08/2008 12:54
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.818	0.000	541658	6.299	0.000	350066	17.5	16.6	5.3	Tetrachloro-m-xylene
14.825	0.000	470067	15.325	0.000	277852	17.8	16.2	9.3	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	43.7	41.4
Decachlorobiphenyl	44.4	40.5

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2417502	2096927	-13.3
Hexabromobiphenyl	1336983	1104951	-17.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1179079	1330161	12.8
Hexabromobiphenyl	604278	653586	8.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

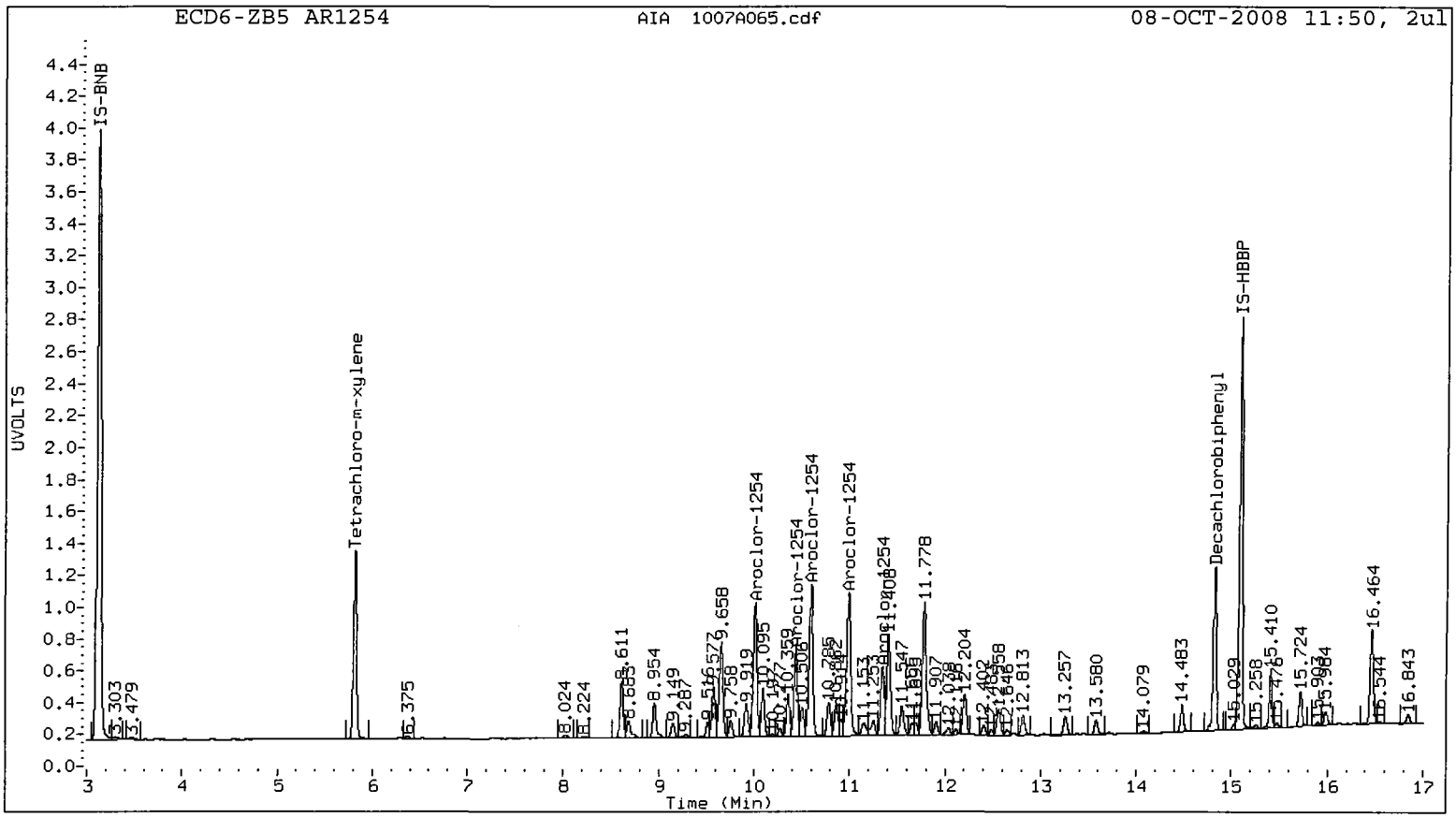
		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	10.011	0.000	448352	238.8	1	10.559	0.000	178234	223.7
Aroclor-1254	2	10.439	0.000	275474	237.7	2	10.757	0.000	225383	227.3
Aroclor-1254	3	10.596	0.000	514251	238.6	3	11.351	0.000	164715	226.2
Aroclor-1254	4	10.989	0.000	552277	245.7	4	11.521	0.000	360332	226.4
Aroclor-1254	5	11.347	0.000	220220	239.5	5	12.405	0.000	222000	236.3
Total Col1Ave (5 peaks):					240.1	Total Col2Ave (5 peaks):				228.0 RPD = 5
Corrected Ave (4 peaks):					238.7	Corrected Ave (4 peaks):				225.9 RPD = 5

Total PCB Area Col1 (5.918 - 14.725) = 5569786 Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (6.399 - 15.225) = 3537880 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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AIA 1007A065.cdf
08-OCT-2008 11:50, 2ul
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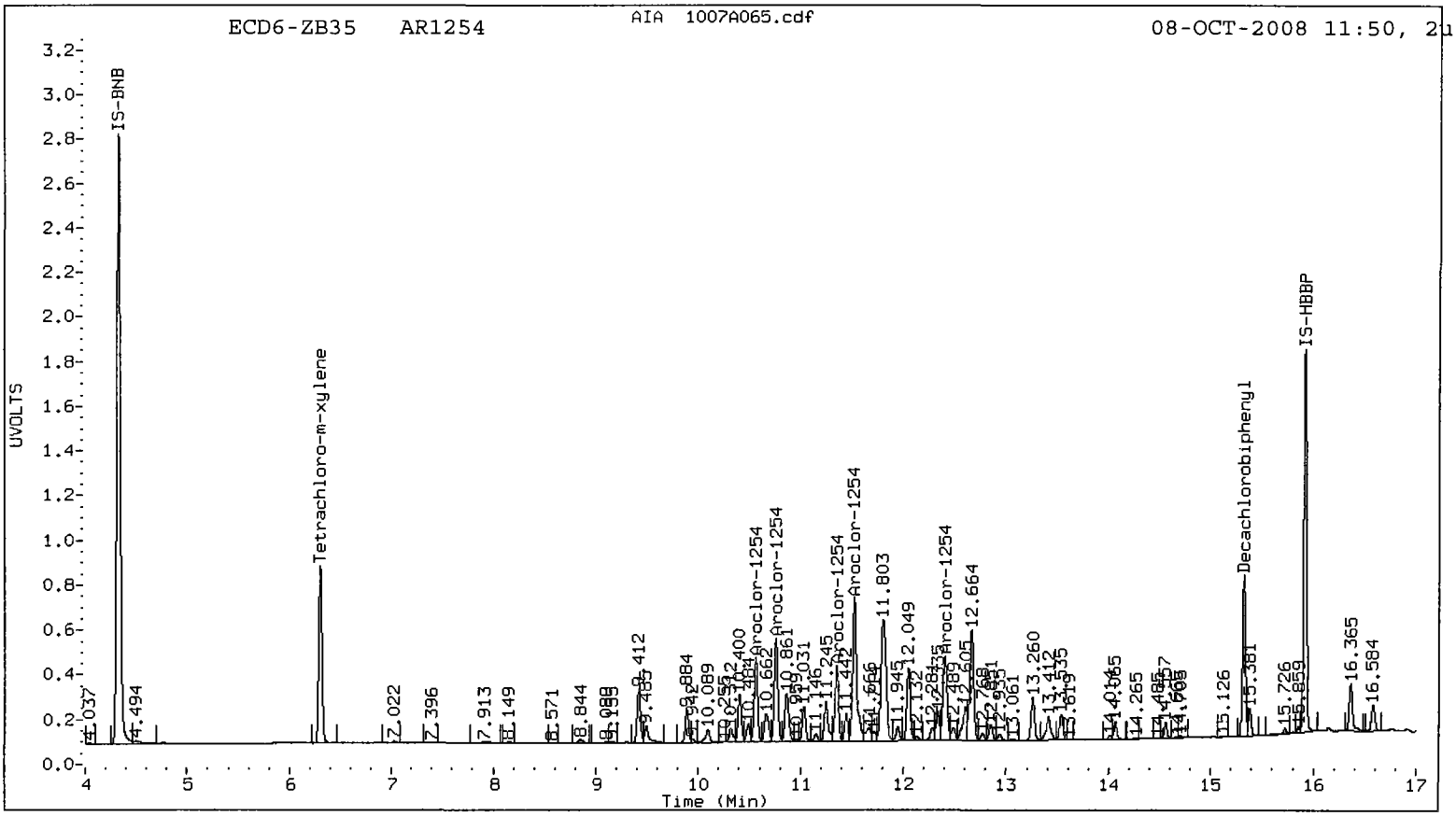
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1254
Decachlorobiphenyl
IS-HBBP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08-OCT-2008 11:50, 2u
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1254
Decachlorobiphenyl
IS-HBBP

PCB Analysis
Raw QC Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NOS: NS52

prepared
by

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: MB-100708
METHOD BLANK

Lab Sample ID: MB-100708
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: NA
Date Received: NA

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 08:30
Instrument/Analyst: ECD6/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 25.0 g
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	10	< 10 U
53469-21-9	Aroclor 1242	10	< 10 U
12672-29-6	Aroclor 1248	10	< 10 U
11097-69-1	Aroclor 1254	10	< 10 U
11096-82-5	Aroclor 1260	10	< 10 U
11104-28-2	Aroclor 1221	10	< 10 U
11141-16-5	Aroclor 1232	10	< 10 U
37324-23-5	Aroclor 1262	10	< 10 U
11100-14-4	Aroclor 1268	10	< 10 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	76.8%
Tetrachlorometaxylene	70.5%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081006.B/1007-1.b/1007A056.d
Data file 2: 20081006.B/1007-2.b/1007A056.d
Method: /chem2/ecd6.i/20081006.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd6.i, 2ul
Quant Method: Internal Std

ARI ID: NS52MBS1
Client ID:
Injection Date: 08-OCT-2008 08:30
Report Date: 10/08/2008 11:49
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.815	-0.001	815142	6.297	-0.001	604534	27.6	28.2	2.0	Tetrachloro-m-xylene
14.825	0.001	797071	15.324	0.001	520637	30.7	27.8	9.9	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	69.0	70.4
Decachlorobiphenyl	76.7	69.5

JK 10/08/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2417502	1997964	-17.4
Hexabromobiphenyl	1336983	1085533	-18.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1179079	1351714	14.6
Hexabromobiphenyl	604278	713631	18.1

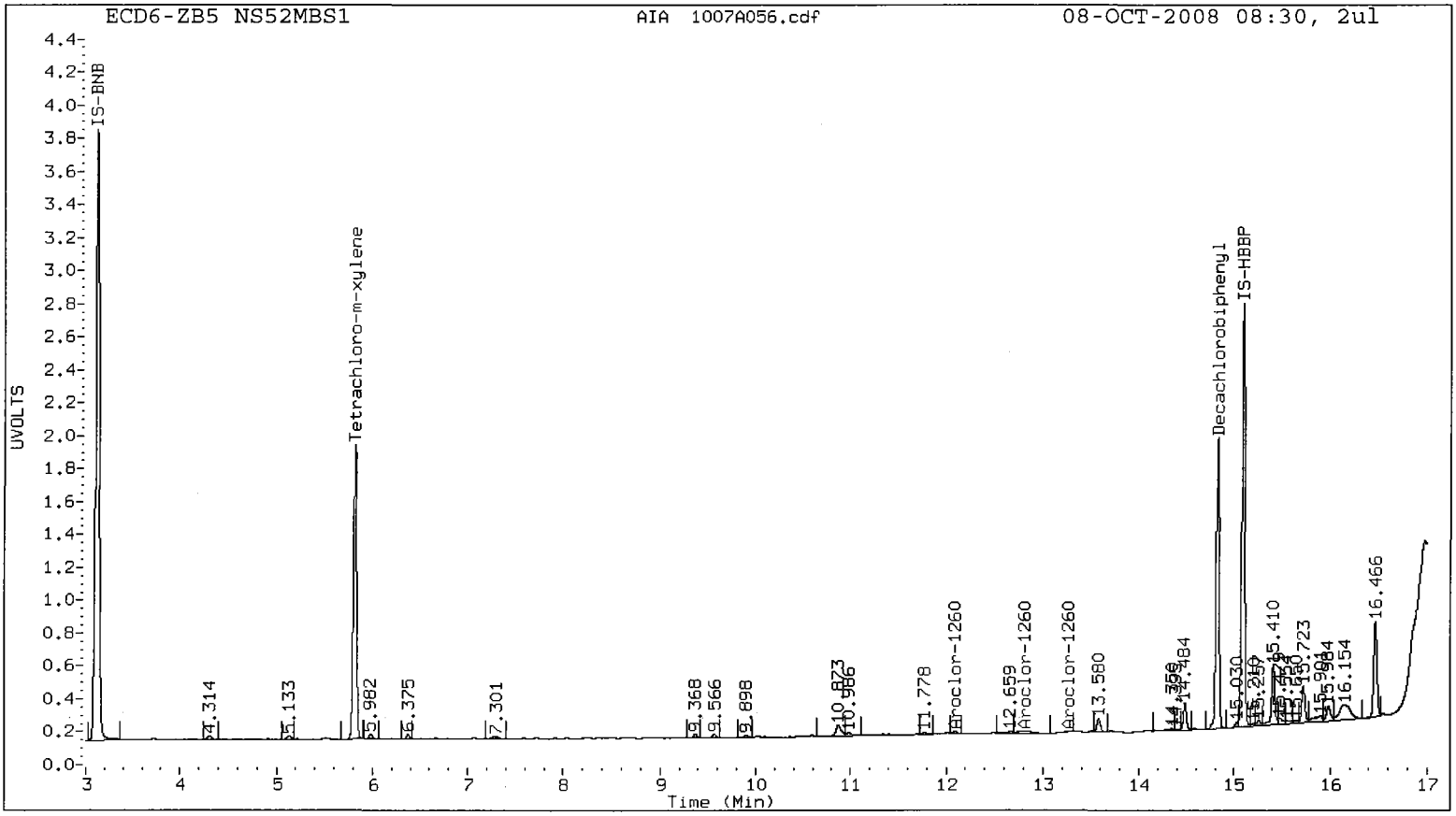
* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	NS	---			----	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	7.027	0.007	16983	64.9
Aroclor-1221	2	---			0.0	2	7.277	-0.001	1926	12.6
Aroclor-1221	3	---			0.0	3	7.383	-0.012	1619	3.3
Aroclor-1221	NS	---			----	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: 26.9			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	15.324	0.001	520637	403.6
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
Aroclor-1242	NS	---			----	5	10.396	-0.004	1369	3.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	10.781	0.027	5268	5.2
Aroclor-1254	3	---			0.0	3	11.337	-0.010	4165	5.6
Aroclor-1254	4	---			0.0	4	11.518	0.001	3510	2.2
Aroclor-1254	5	---			0.0	5	12.399	-0.003	6775	7.1
		Col1Ave: <3 Quant Peaks					Col2Ave: 5.0			
Aroclor-1260	1	12.088	0.052	10639	8.5	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	12.815	0.003	41953	14.4	3	---			0.0
Aroclor-1260	4	13.262	0.006	6631	4.3	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
		Total Col1Ave (3 peaks): 9.0					Col2Ave: <3 Quant Peaks			
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	12.815	0.004	41953	11.6	2	---			0.0
Aroclor-1262	3	13.262	0.007	6631	5.4	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
Aroclor-1262	5	---			0.0	5	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.917 - 14.724) = 360740 Col1 Total PCB = 0.0 ppm*

Total PCB Area Col2 (6.398 - 15.223) = 460382 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical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Time (Min)
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Tetrachloro-m-xylene
Decachlorobiphenyl
IS-HBBP
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Aroclor-1260
Aroclor-1260
4.314
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7.301
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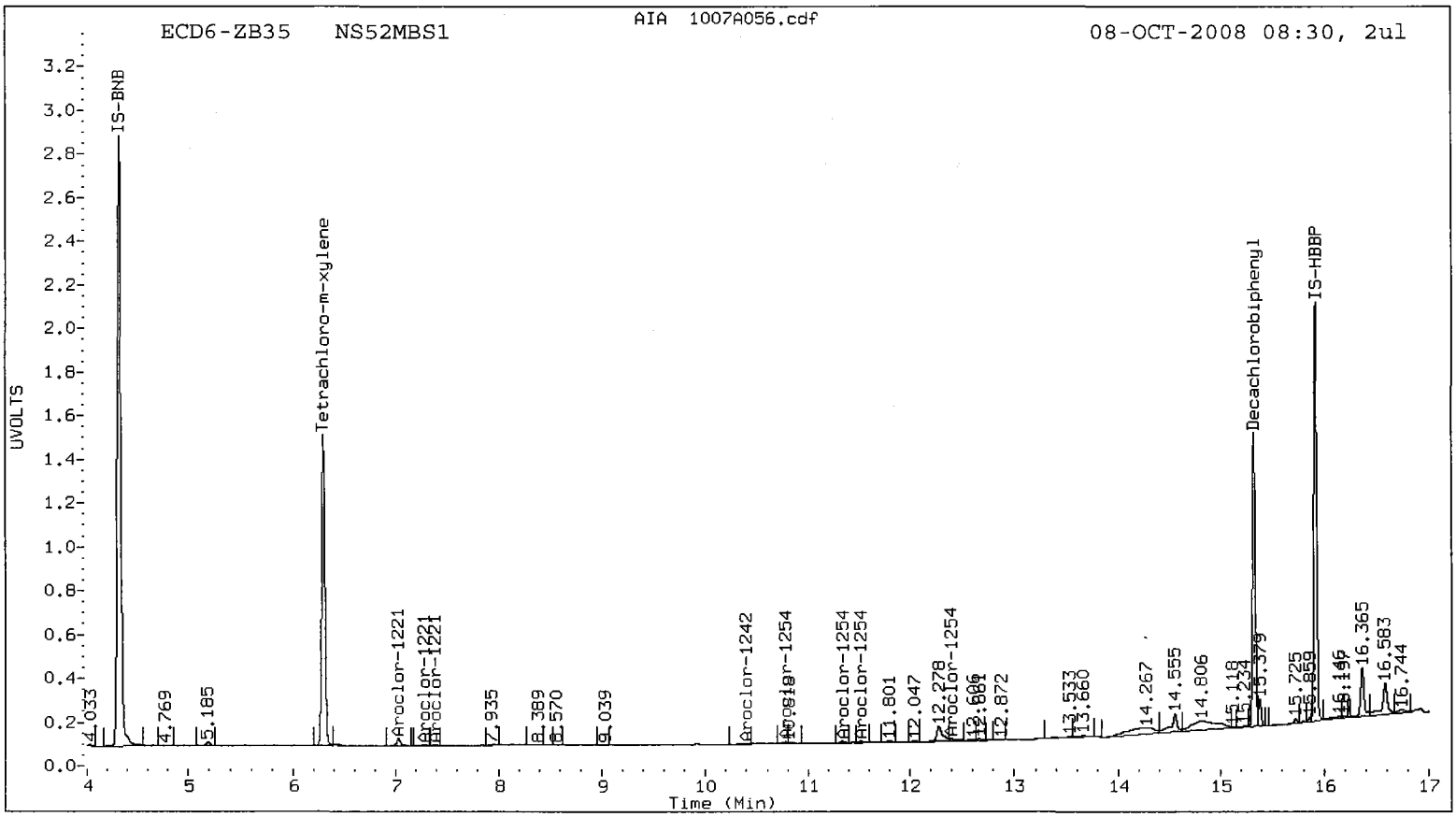
16.466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Time (Min)
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Tetrachloro-m-xylene
Decachlorobiphenyl
IS-HBBP
Aroclor-1221
Aroclor-1221
Aroclor-1221
Aroclor-1242
Aroclor-1254
Aroclor-1254
Aroclor-1254
Aroclor-1254
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5.185
7.935
8.389
8.570
9.039
11.801
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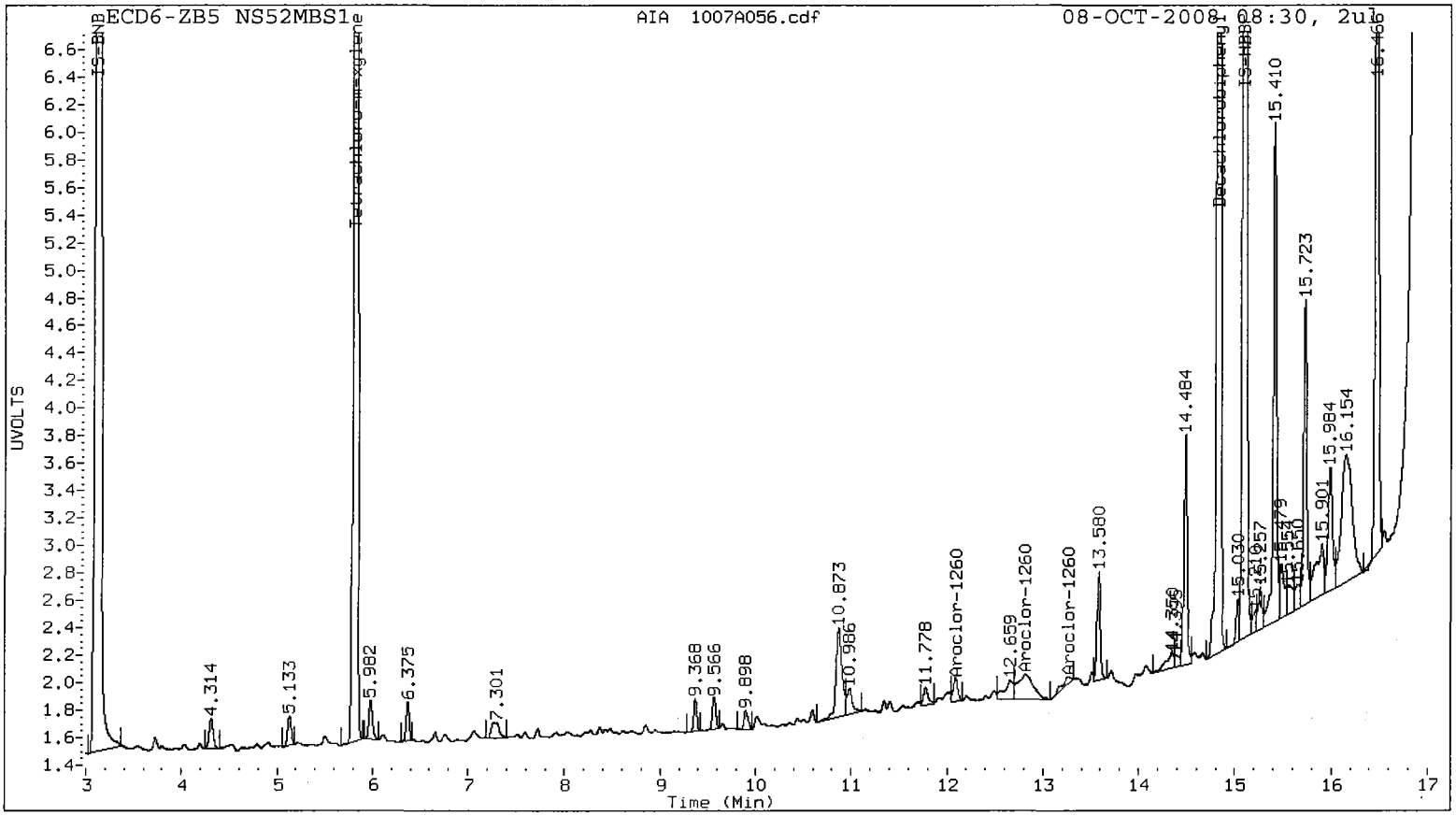
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UVOLTS
Time (Min)
IS-DNB
Tetrachloro-m-xylene
Decachlorobiphenyl
IS-HBBP
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5.133
5.982
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7.301
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9.566
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11.778
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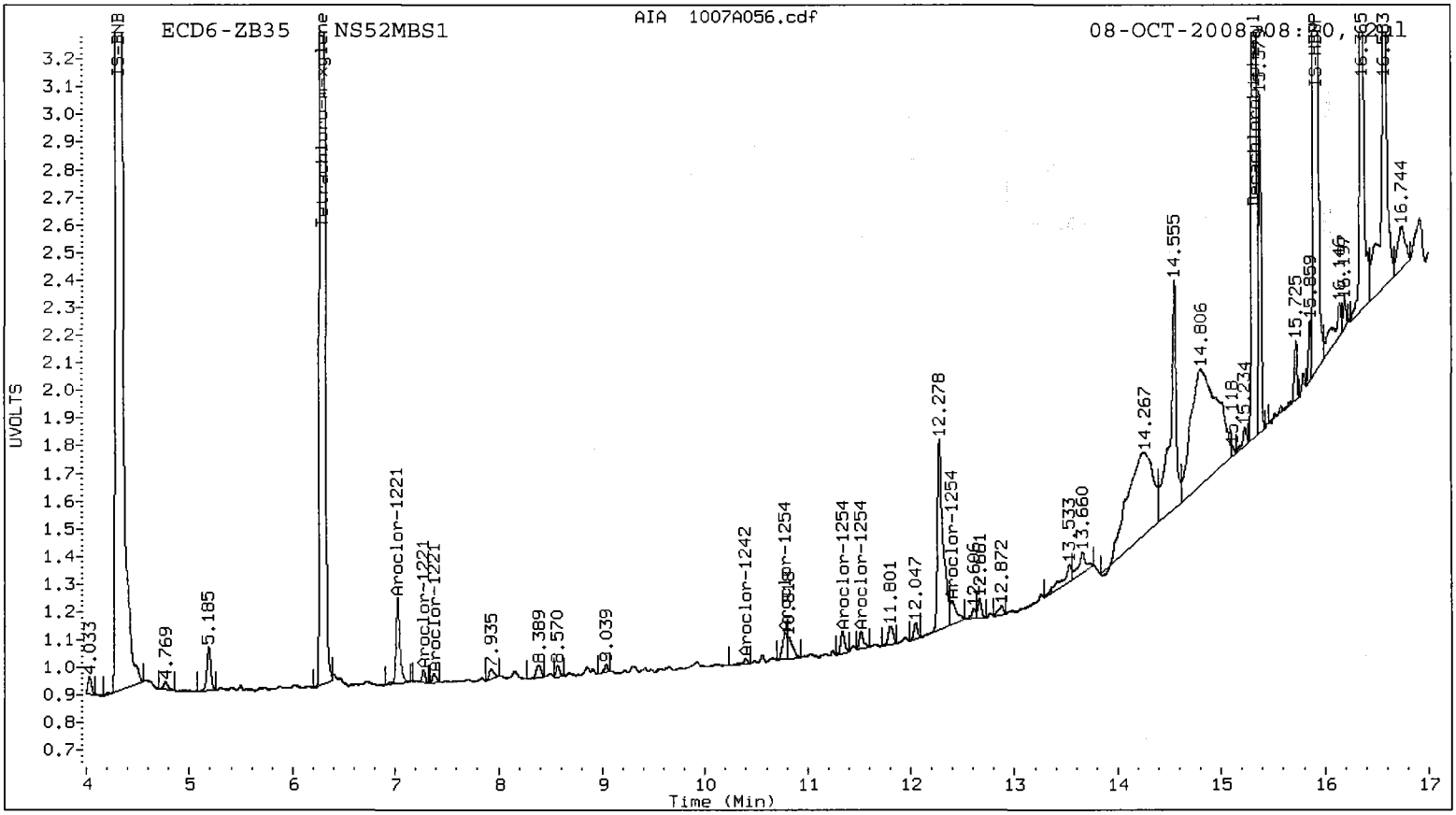
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Time (Min)
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Tetrachloro-m-xylene
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16.744

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: EB-SE04-A-081003
MATRIX SPIKE

Lab Sample ID: NS52E
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 09:59
Instrument/Analyst: ECD6/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 26.0 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 27.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.6	---
53469-21-9	Aroclor 1242	9.6	< 9.6 U
12672-29-6	**Aroclor 1248**	**9.6**	**40**
11097-69-1	**Aroclor 1254**	**9.6**	**36**
11096-82-5	Aroclor 1260	9.6	---
11104-28-2	Aroclor 1221	9.6	< 9.6 U
11141-16-5	Aroclor 1232	9.6	< 9.6 U
37324-23-5	Aroclor 1262	9.6	< 9.6 U
11100-14-4	Aroclor 1268	9.6	< 9.6 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	69.0%
Tetrachlorometaxylene	70.5%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081006.B/1007-1.b/1007A060.d
Data file 2: 20081006.B/1007-2.b/1007A060.d
Method: /chem2/ecd6.i/20081006.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd6.i, 2ul
Quant Method: Internal Std

ARI ID: NS52EMS
Client ID:
Injection Date: 08-OCT-2008 09:59
Report Date: 10/08/2008 12:00
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.816	-0.001	846507	6.297	-0.001	572745	28.2	27.0	4.6	Tetrachloro-m-xylene
14.824	0.000	677009	15.323	0.001	459826	25.1	27.6	9.4	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	70.5	67.4
Decachlorobiphenyl	62.8	69.0

JK 10/08/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2417502	2029392	-16.1
Hexabromobiphenyl	1336983	1125632	-15.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1179079	1338073	13.5
Hexabromobiphenyl	604278	634447	5.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

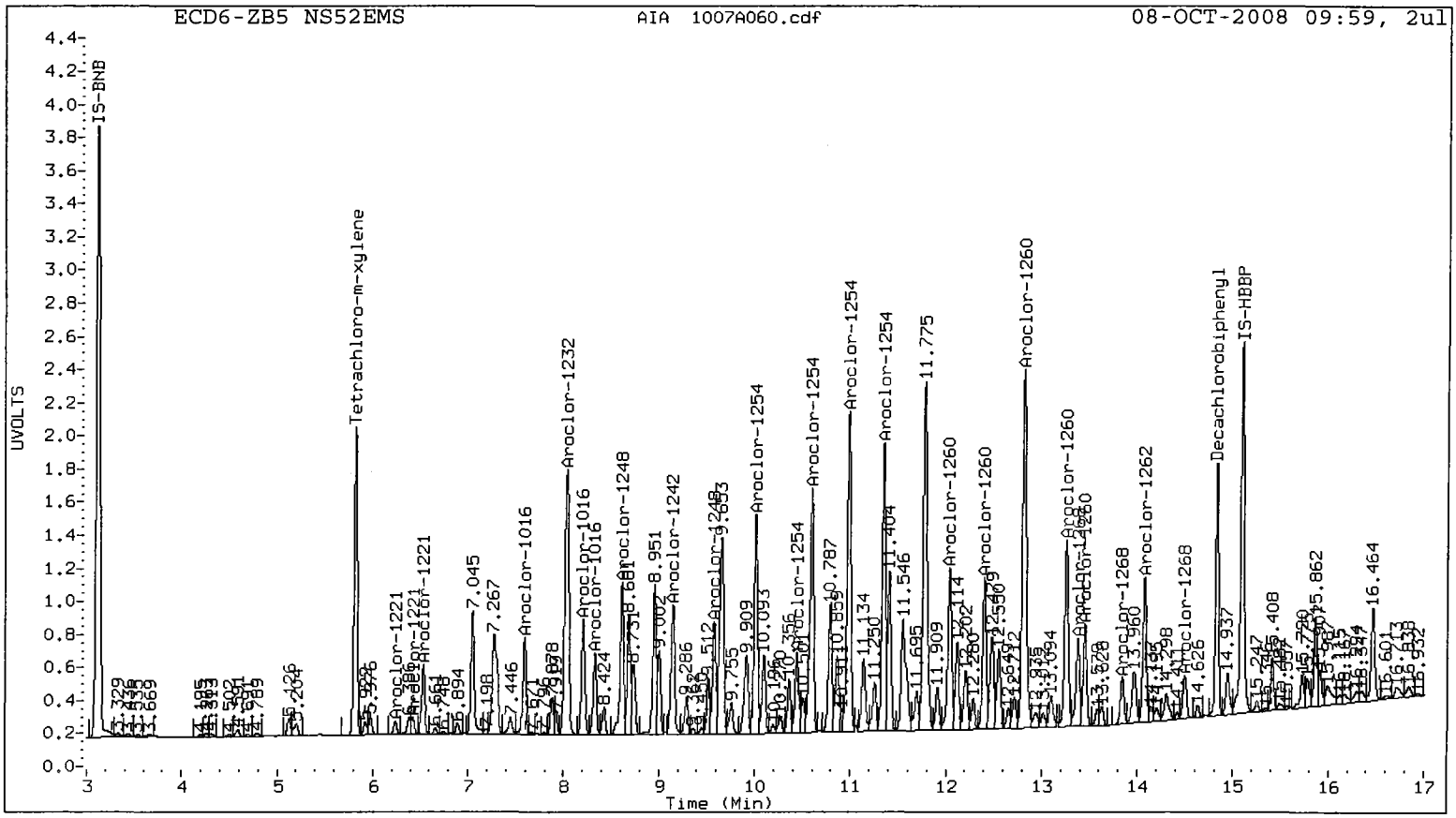
Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.589	-0.001	286888	343.1	1	8.150	-0.002	322352	335.9
Aroclor-1016	2	8.202	-0.002	356159	337.8	2	8.848	-0.002	649534	354.4
Aroclor-1016	3	8.328	-0.001	241358	344.9	3	9.285	-0.003	155048	346.6
Aroclor-1016	NS	---			----	4	9.411	-0.003	335652	578.7
Total Col1Ave (3 peaks):				341.9		Total Col2Ave (4 peaks):			403.9	RPD = 17
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):			345.7	
Aroclor-1221	1	6.238	0.002	39612	116.0	1	7.026	0.007	66778	257.7
Aroclor-1221	2	6.425	0.001	49071	223.1	2	7.280	0.002	37451	247.5
Aroclor-1221	3	6.530	0.002	203984	260.6	3	7.396	0.002	134019	275.6
Aroclor-1221	NS	---			----	4	8.150	-0.005	322352	1868.0
Total Col1Ave (3 peaks):				199.9		Total Col2Ave (4 peaks):			662.2	RPD = 107*
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):			260.3	
Aroclor-1232	1	6.530	0.002	203984	300.8	1	7.396	0.002	134019	314.1
Aroclor-1232	2	7.589	0.002	286888	830.6	2	8.150	0.002	322352	753.1
Aroclor-1232	3	8.030	0.002	993066	939.9	3	8.848	0.000	649534	867.9
Aroclor-1232	4	8.202	0.001	356159	802.7	4	9.285	0.001	155048	823.0
Total Col1Ave (4 peaks):				718.5		Total Col2Ave (4 peaks):			689.5	RPD = 4
Corrected Ave (3 peaks):				644.7		Corrected Ave (3 peaks):			630.0	RPD = 2
Aroclor-1242	1	7.589	-0.001	286888	470.2	1	15.323	0.001	459826	360.1
Aroclor-1242	2	8.030	0.000	993066	535.5	2	8.848	-0.002	649534	492.0
Aroclor-1242	3	8.202	-0.001	356159	457.2	3	9.285	-0.003	155048	464.3
Aroclor-1242	4	9.147	-0.002	446075	617.6	4	9.411	-0.003	335652	810.9
Aroclor-1242	NS	---			----	5	10.396	-0.003	233437	525.3
Total Col1Ave (4 peaks):				520.1		Total Col2Ave (5 peaks):			530.5	RPD = 2
Corrected Ave (3 peaks):				487.6		Corrected Ave (4 peaks):			460.4	RPD = 6
Aroclor-1248	1	8.030	0.003	993066	724.7	1	8.848	0.000	649534	657.9
Aroclor-1248	2	8.609	0.000	449860	519.4	2	9.411	-0.001	335652	499.6
Aroclor-1248	3	9.147	0.001	446075	403.7	3	9.881	0.000	341176	459.3
Aroclor-1248	4	9.574	0.001	330914	292.7	4	10.396	-0.002	233437	291.9
Total Col1Ave (4 peaks):				485.1		Total Col2Ave (4 peaks):			477.2	RPD = 2
Corrected Ave (3 peaks):				405.3		Corrected Ave (3 peaks):			416.9	RPD = 3
Aroclor-1254	1	10.008	0.000	670254	368.9	1	10.556	0.001	358020	446.7
Aroclor-1254	2	10.437	-0.002	263839	235.3	2	10.752	-0.001	402617	403.7
Aroclor-1254	3	10.594	0.000	834487	400.0	3	11.348	0.000	153230	209.2
Aroclor-1254	4	10.980	-0.007	1122170	515.8	4	11.517	0.000	455603	284.6
Aroclor-1254	5	11.344	0.000	875957	984.3	5	12.407	0.005	332027	351.4
Total Col1Ave (5 peaks):				500.9		Total Col2Ave (5 peaks):			339.1	RPD = 39
Corrected Ave (4 peaks):				380.0		Corrected Ave (4 peaks):			312.2	RPD = 20
Aroclor-1260	1	12.036	-0.001	541725	416.2	1	12.765	0.000	338574	416.0
Aroclor-1260	2	12.399	-0.001	489321	374.9	2	13.260	-0.001	438727	454.9
Aroclor-1260	3	12.811	-0.001	1243235	411.2	3	13.532	-0.001	783517	418.5
Aroclor-1260	4	13.254	-0.002	641620	398.3	4	14.064	0.000	561599	438.6
Aroclor-1260	5	13.448	0.000	316722	413.6	NS	---			----
Total Col1Ave (5 peaks):				402.9		Total Col2Ave (4 peaks):			432.0	RPD = 7
Corrected Ave (4 peaks):				399.5		Corrected Ave (3 peaks):			424.3	RPD = 6
Aroclor-1262	1	12.399	0.000	489321	285.3	1	12.765	0.003	338574	254.5
Aroclor-1262	2	12.811	-0.001	1243235	332.5	2	13.260	0.002	438727	357.5
Aroclor-1262	3	13.254	-0.002	641620	505.4	3	13.532	0.002	783517	339.6
Aroclor-1262	4	13.448	0.000	316722	200.3	4	14.064	0.000	561599	357.9
Aroclor-1262	5	14.069	-0.004	453547	347.5	5	14.663	0.003	201280	236.2
Total Col1Ave (5 peaks):				334.2		Total Col2Ave (5 peaks):			309.1	RPD = 8
Corrected Ave (4 peaks):				291.4		Corrected Ave (4 peaks):			296.9	RPD = 2
Aroclor-1268	1	13.375	0.001	304918	71.7	1	14.010	0.003	236384	91.7
Aroclor-1268	2	13.448	0.003	316722	83.7	2	14.064	0.000	561599	236.0
Aroclor-1268	3	13.836	0.017	151465	47.3	3	14.396	0.000	23066	11.8
Aroclor-1268	4	14.491	-0.008	149730	16.4	4	15.027	0.002	61375	11.1
Total Col1Ave (4 peaks):				54.8		Total Col2Ave (4 peaks):			87.6	RPD = 46*
Corrected Ave (3 peaks):				45.1		Corrected Ave (3 peaks):			38.2	RPD = 17

Total PCB Area Col1 (5.917 - 14.724) = 21888043 Col1 Total PCB = 1.1 ppm*

Total PCB Area Col2 (6.398 - 15.223) = 14297556 Col2 Total PCB = 1.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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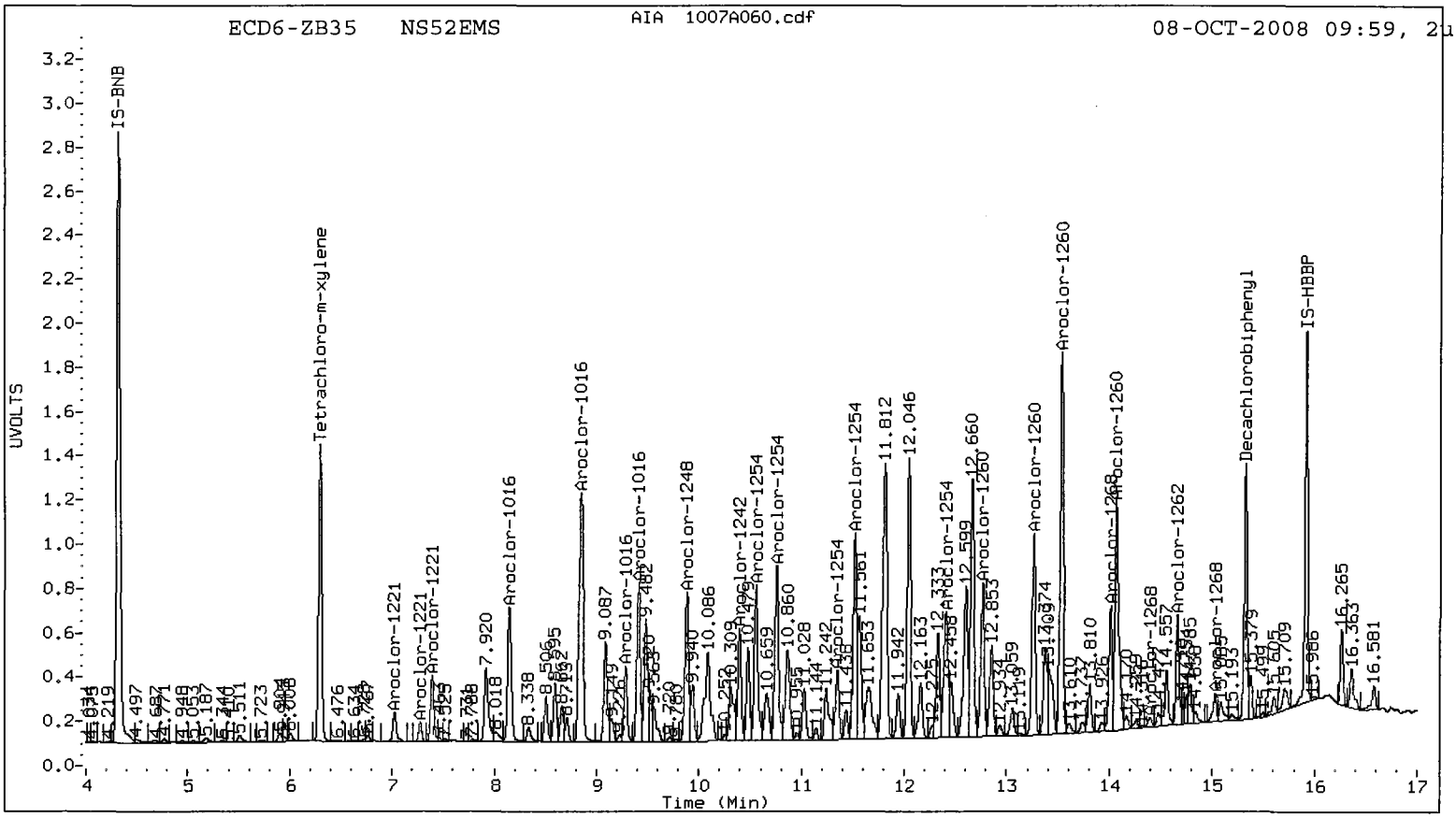
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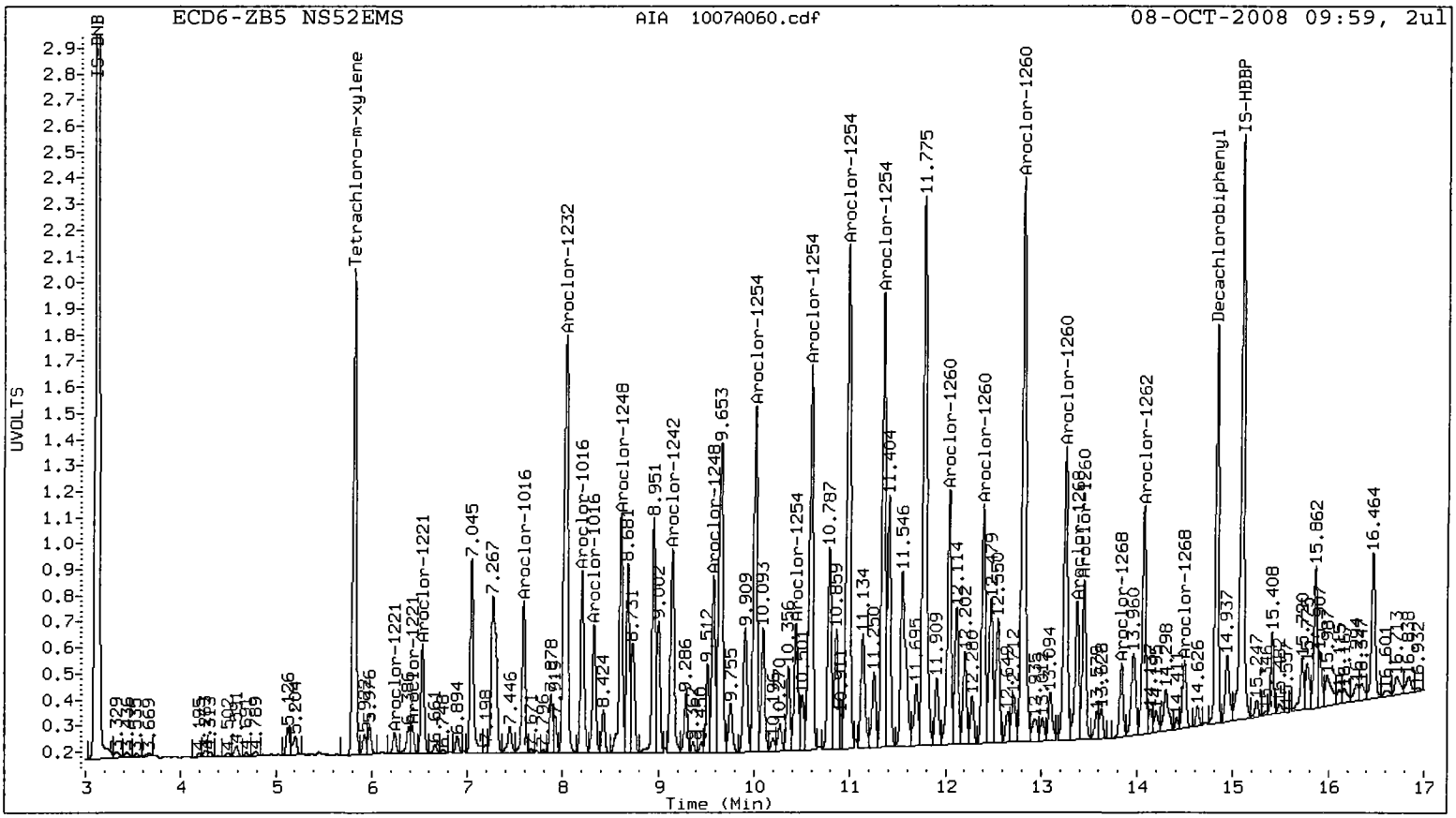
Decachlorobiphenyl
IS-HBBP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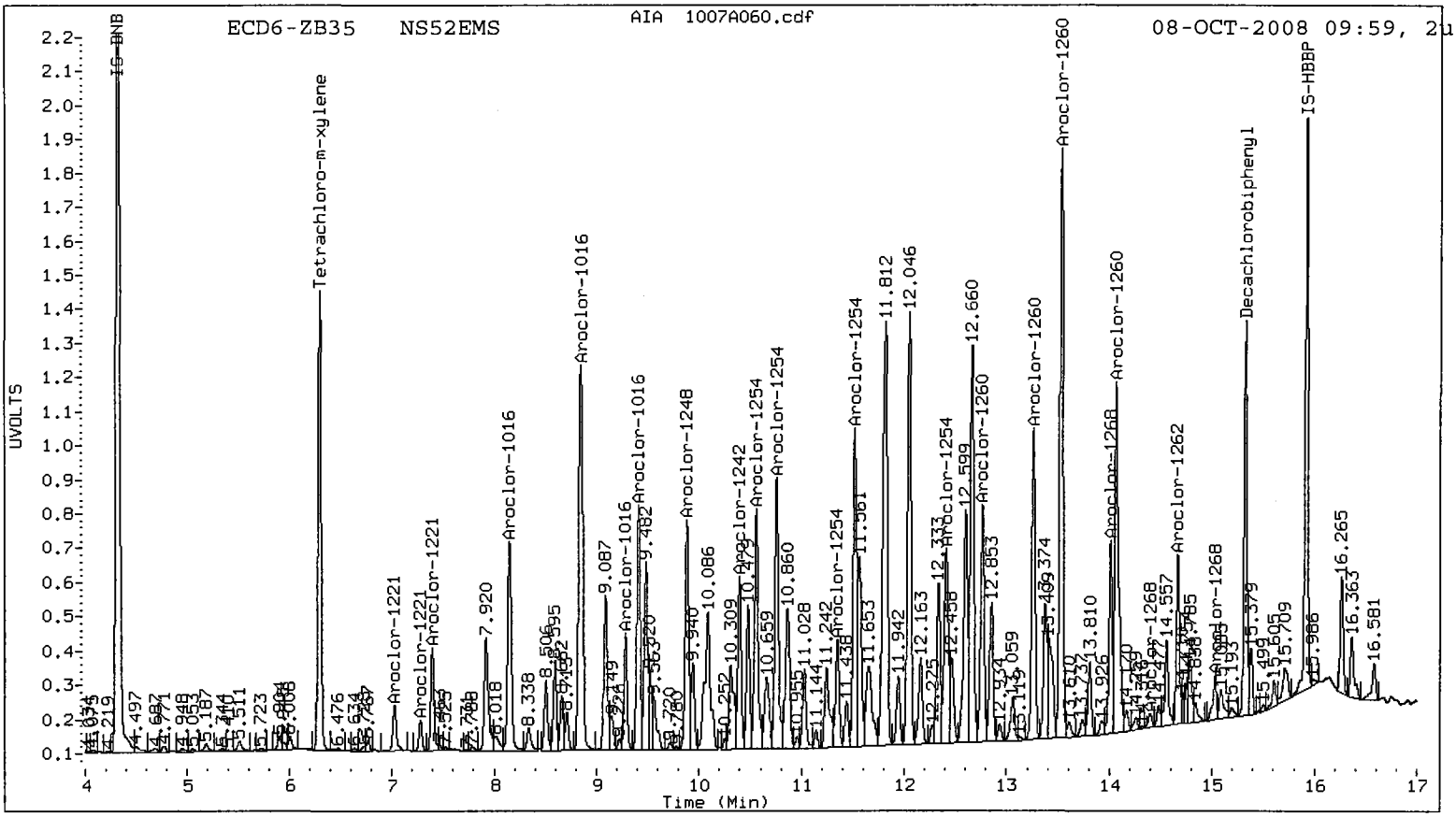
IS-HBBP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Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA PCB by GC/ECD
Page 1 of 1

Sample ID: EB-SE04-A-081003
MATRIX SPIKE DUP

Lab Sample ID: NS52E
LIMS ID: 08-26290
Matrix: Sediment
Data Release Authorized:
Reported: 10/08/08

QC Report No: NS52-Anchor Environmental, LLC
Project: EDDON BOATYARD
040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Date Extracted: 10/07/08
Date Analyzed: 10/08/08 10:21
Instrument/Analyst: ECD6/JGR
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes
Florisil Cleanup: No

Sample Amount: 26.0 g-dry-wt
Final Extract Volume: 2.5 mL
Dilution Factor: 1.00
Silica Gel: No

Percent Moisture: 27.5%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	9.6	---
53469-21-9	Aroclor 1242	9.6	< 9.6 U
12672-29-6	**Aroclor 1248**	**9.6**	**53**
11097-69-1	**Aroclor 1254**	**9.6**	**46**
11096-82-5	Aroclor 1260	9.6	---
11104-28-2	Aroclor 1221	9.6	< 9.6 U
11141-16-5	Aroclor 1232	9.6	< 9.6 U
37324-23-5	Aroclor 1262	9.6	< 9.6 U
11100-14-4	Aroclor 1268	9.6	< 9.6 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	69.8%
Tetrachlorometaxylene	69.0%

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081006.B/1007-1.b/1007A061.d
Data file 2: 20081006.B/1007-2.b/1007A061.d
Method: /chem2/ecd6.i/20081006.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd6.i, 2ul
Quant Method: Internal Std

ARI ID: NS52EMSD
Client ID:
Injection Date: 08-OCT-2008 10:21
Report Date: 10/08/2008 12:00
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.816	0.000	828007	6.298	0.000	568928	27.6	27.0	2.0	Tetrachloro-m-xylene
14.825	0.001	653692	15.324	0.001	444502	22.6	27.9	20.9	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	68.9	67.5
Decachlorobiphenyl	56.5	69.7

MC 10/08/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2417502	2032508	-15.9
Hexabromobiphenyl	1336983	1207627	-9.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1179079	1326664	12.5
Hexabromobiphenyl	604278	607125	0.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

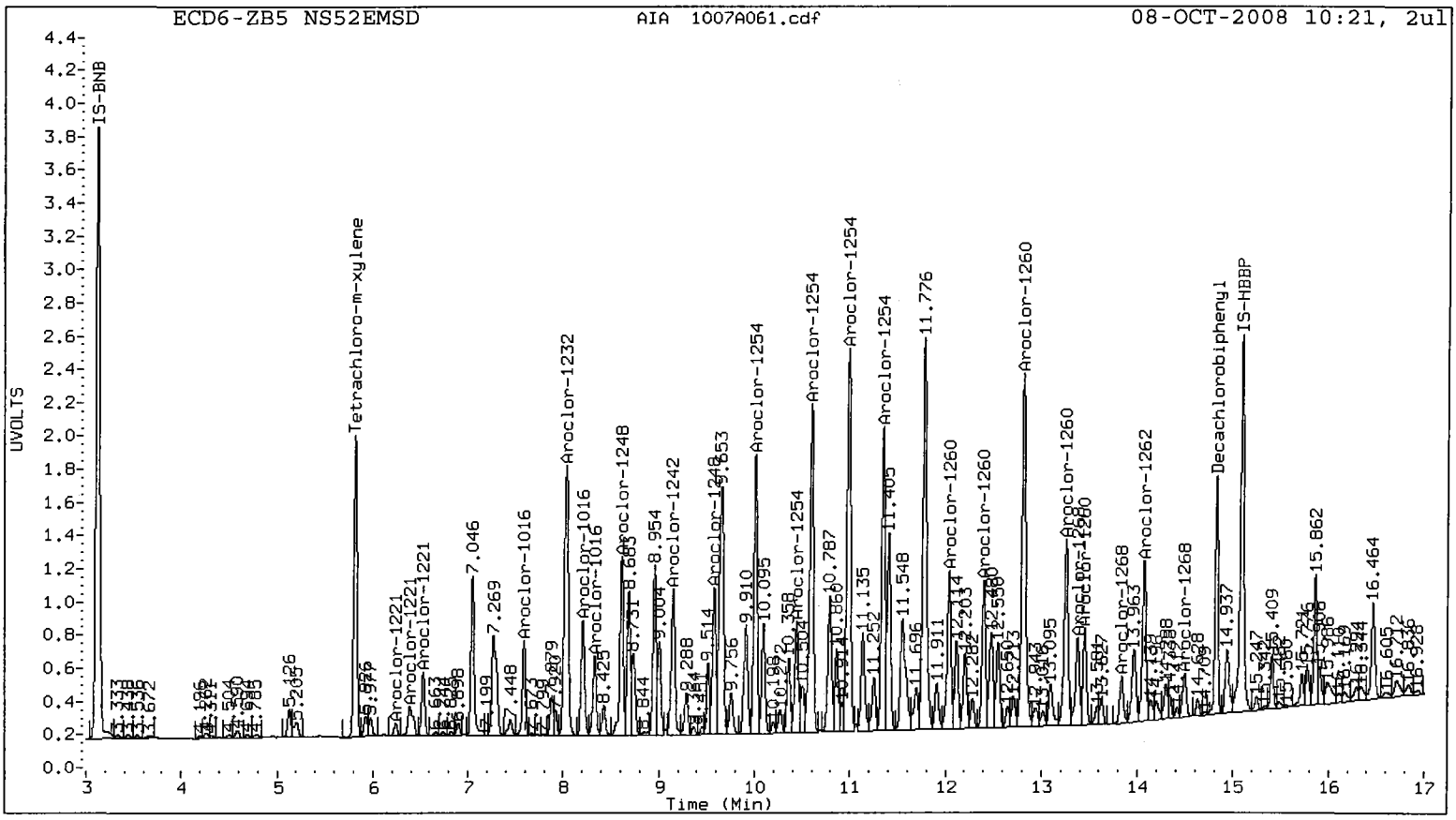
Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.591	0.001	281009	335.5	1	8.152	0.001	312366	328.3
Aroclor-1016	2	8.204	0.000	354562	335.8	2	8.849	-0.001	651531	358.6
Aroclor-1016	3	8.330	0.000	240024	342.5	3	9.286	-0.001	152696	344.3
Aroclor-1016	NS	---			----	4	9.412	-0.001	393530	684.3
Total Col1Ave (3 peaks): 337.9					Total Col2Ave (4 peaks): 428.9				RPD = 24	
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks): 343.7					
Aroclor-1221	1	6.239	0.003	37085	108.4	1	7.027	0.008	64409	250.7
Aroclor-1221	2	6.389	-0.035	140386	637.2	2	7.281	0.003	34362	229.0
Aroclor-1221	3	6.530	0.002	188536	240.5	3	7.398	0.004	137799	285.8
Aroclor-1221	NS	---			----	4	8.152	-0.003	312366	1825.7
Total Col1Ave (3 peaks): 328.7					Total Col2Ave (4 peaks): 647.8				RPD = 65*	
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks): 255.2					
Aroclor-1232	1	6.530	0.003	188536	277.6	1	7.398	0.004	137799	325.7
Aroclor-1232	2	7.591	0.004	281009	812.4	2	8.152	0.004	312366	736.0
Aroclor-1232	3	8.032	0.004	1015694	959.8	3	8.849	0.002	651531	878.0
Aroclor-1232	4	8.204	0.003	354562	797.9	4	9.286	0.003	152696	817.4
Total Col1Ave (4 peaks): 711.9					Total Col2Ave (4 peaks): 689.3				RPD = 3	
Corrected Ave (3 peaks): 629.3					Corrected Ave (3 peaks): 626.4				RPD = 0	
Aroclor-1242	1	7.591	0.001	281009	459.9	1	15.324	0.001	444502	351.1
Aroclor-1242	2	8.032	0.002	1015694	546.9	2	8.849	0.000	651531	497.7
Aroclor-1242	3	8.204	0.001	354562	454.5	3	9.286	-0.001	152696	461.2
Aroclor-1242	4	9.148	-0.001	496529	686.4	4	9.412	-0.002	393530	958.9
Aroclor-1242	NS				----	5	10.398	-0.001	307343	697.5
Total Col1Ave (4 peaks): 536.9					Total Col2Ave (5 peaks): 593.3				RPD = 10	
Corrected Ave (3 peaks): 487.1					Corrected Ave (4 peaks): 501.9				RPD = 3	
Aroclor-1248	1	8.032	0.005	1015694	740.1	1	8.849	0.002	651531	665.6
Aroclor-1248	2	8.610	0.002	540365	622.9	2	9.412	0.001	393530	590.7
Aroclor-1248	3	9.148	0.002	496529	448.7	3	9.882	0.001	382175	518.9
Aroclor-1248	4	9.575	0.002	433641	383.0	4	10.398	0.000	307343	387.6
Total Col1Ave (4 peaks): 548.7					Total Col2Ave (4 peaks): 540.7				RPD = 1	
Corrected Ave (3 peaks): 484.9					Corrected Ave (3 peaks): 499.1				RPD = 3	
Aroclor-1254	1	10.009	0.002	864064	474.8	1	10.557	0.002	431908	543.5
Aroclor-1254	2	10.441	0.002	355337	316.4	2	10.754	0.001	519606	525.4
Aroclor-1254	3	10.595	0.002	1101677	527.3	3	11.349	0.002	208179	286.7
Aroclor-1254	4	10.982	-0.005	1333266	611.9	4	11.518	0.001	624506	393.4
Aroclor-1254	5	11.345	0.001	932706	1046.5	5	12.408	0.005	412173	439.9
Total Col1Ave (5 peaks): 595.4					Total Col2Ave (5 peaks): 437.8				RPD = 31	
Corrected Ave (4 peaks): 482.6					Corrected Ave (4 peaks): 411.4				RPD = 16	
Aroclor-1260	1	12.038	0.001	532561	381.4	1	12.767	0.001	332441	426.8
Aroclor-1260	2	12.400	0.000	479953	342.8	2	13.261	0.000	457548	495.8
Aroclor-1260	3	12.812	0.000	1245919	384.1	3	13.533	0.000	764962	426.9
Aroclor-1260	4	13.255	-0.001	654753	378.9	4	14.066	0.001	573836	468.3
Aroclor-1260	5	13.449	0.002	309309	376.5	NS	---			----
Total Col1Ave (5 peaks): 372.7					Total Col2Ave (4 peaks): 454.5				RPD = 20	
Corrected Ave (4 peaks): 369.9					Corrected Ave (3 peaks): 440.7				RPD = 17	
Aroclor-1262	1	12.400	0.002	479953	260.8	1	12.767	0.005	332441	261.1
Aroclor-1262	2	12.812	0.001	1245919	310.6	2	13.261	0.003	457548	389.6
Aroclor-1262	3	13.255	0.000	654753	480.7	3	13.533	0.004	764962	346.5
Aroclor-1262	4	13.449	0.002	309309	182.4	4	14.066	0.002	573836	382.1
Aroclor-1262	5	14.069	-0.004	515922	368.4	5	14.664	0.004	197587	242.3
Total Col1Ave (5 peaks): 320.6					Total Col2Ave (5 peaks): 324.3				RPD = 1	
Corrected Ave (4 peaks): 280.6					Corrected Ave (4 peaks): 308.0				RPD = 9	
Aroclor-1268	1	13.376	0.002	308242	67.5	1	14.012	0.005	248962	100.9
Aroclor-1268	2	13.449	0.005	309309	76.2	2	14.066	0.002	573836	252.0
Aroclor-1268	3	13.837	0.018	157023	45.7	3	14.395	-0.001	24092	12.9
Aroclor-1268	4	14.494	-0.006	157055	16.0	4	15.027	0.002	71556	13.5
Total Col1Ave (4 peaks): 51.4					Total Col2Ave (4 peaks): 94.8				RPD = 59*	
Corrected Ave (3 peaks): 43.1					Corrected Ave (3 peaks): 42.4				RPD = 2	

Total PCB Area Col1 (5.917 - 14.724) = 24880548 Col1 Total PCB = 1.3 ppm*

Total PCB Area Col2 (6.398 - 15.223) = 16117024 Col2 Total PCB = 1.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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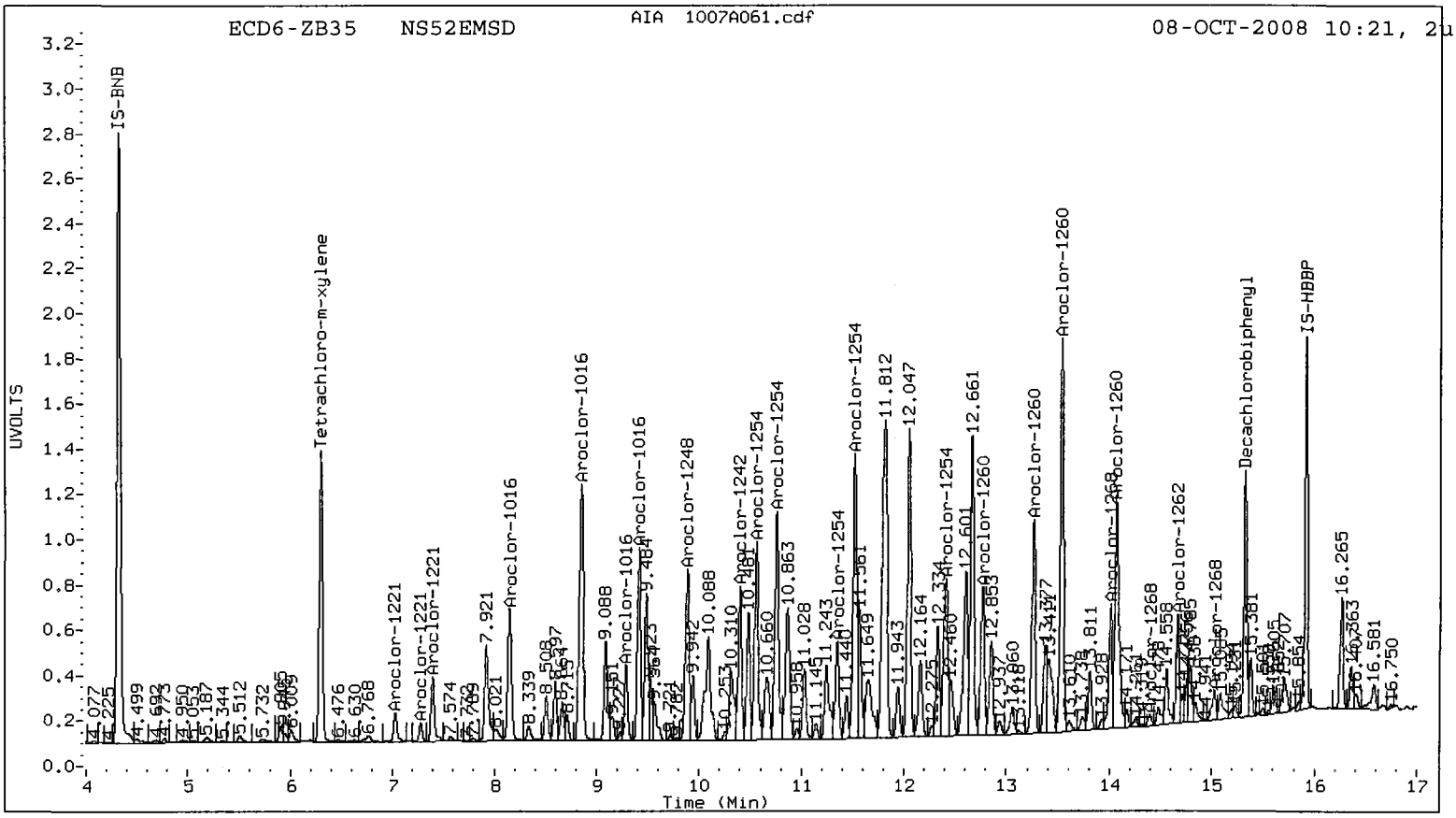
IS-HBBP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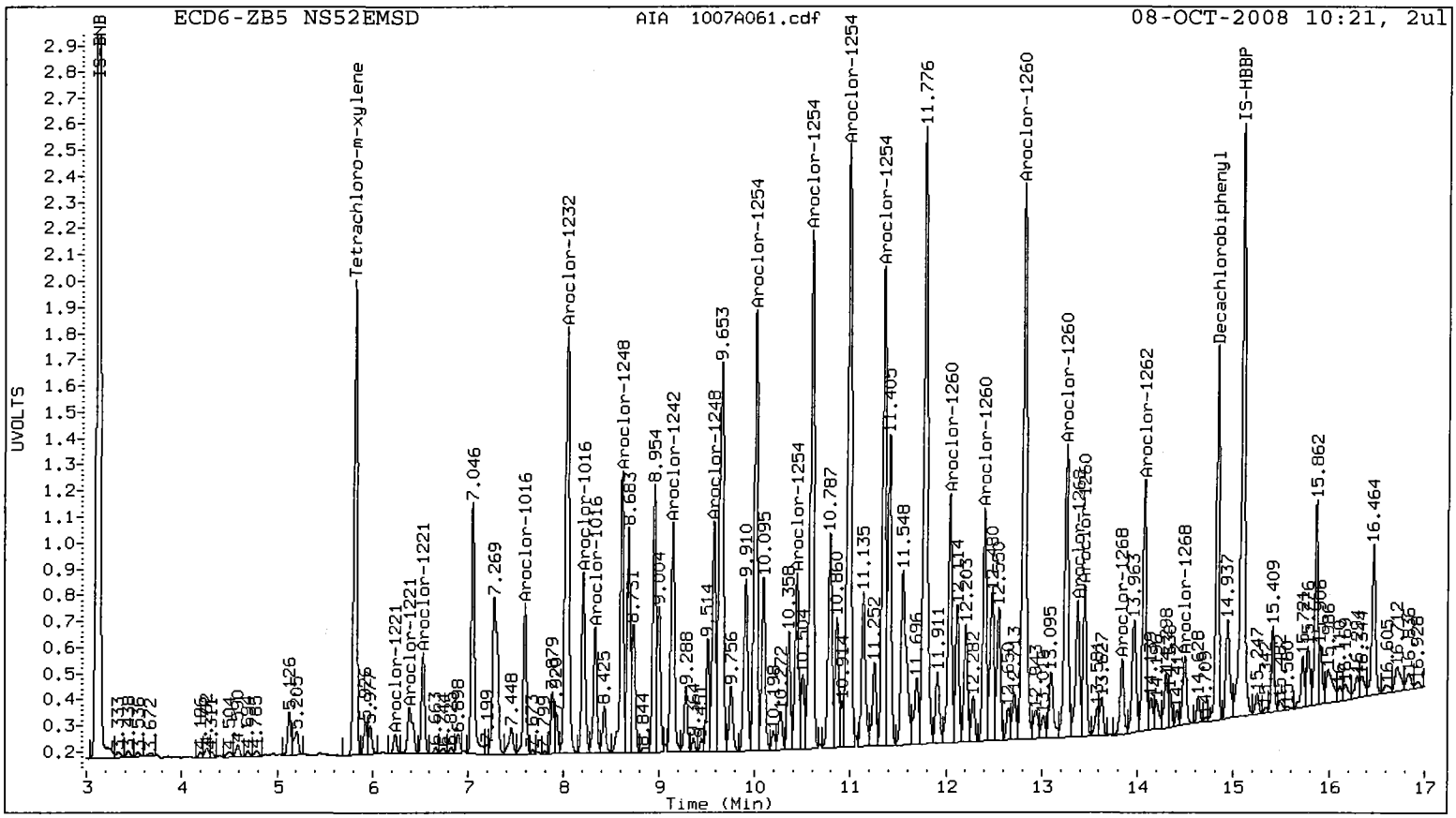
IS-HBBP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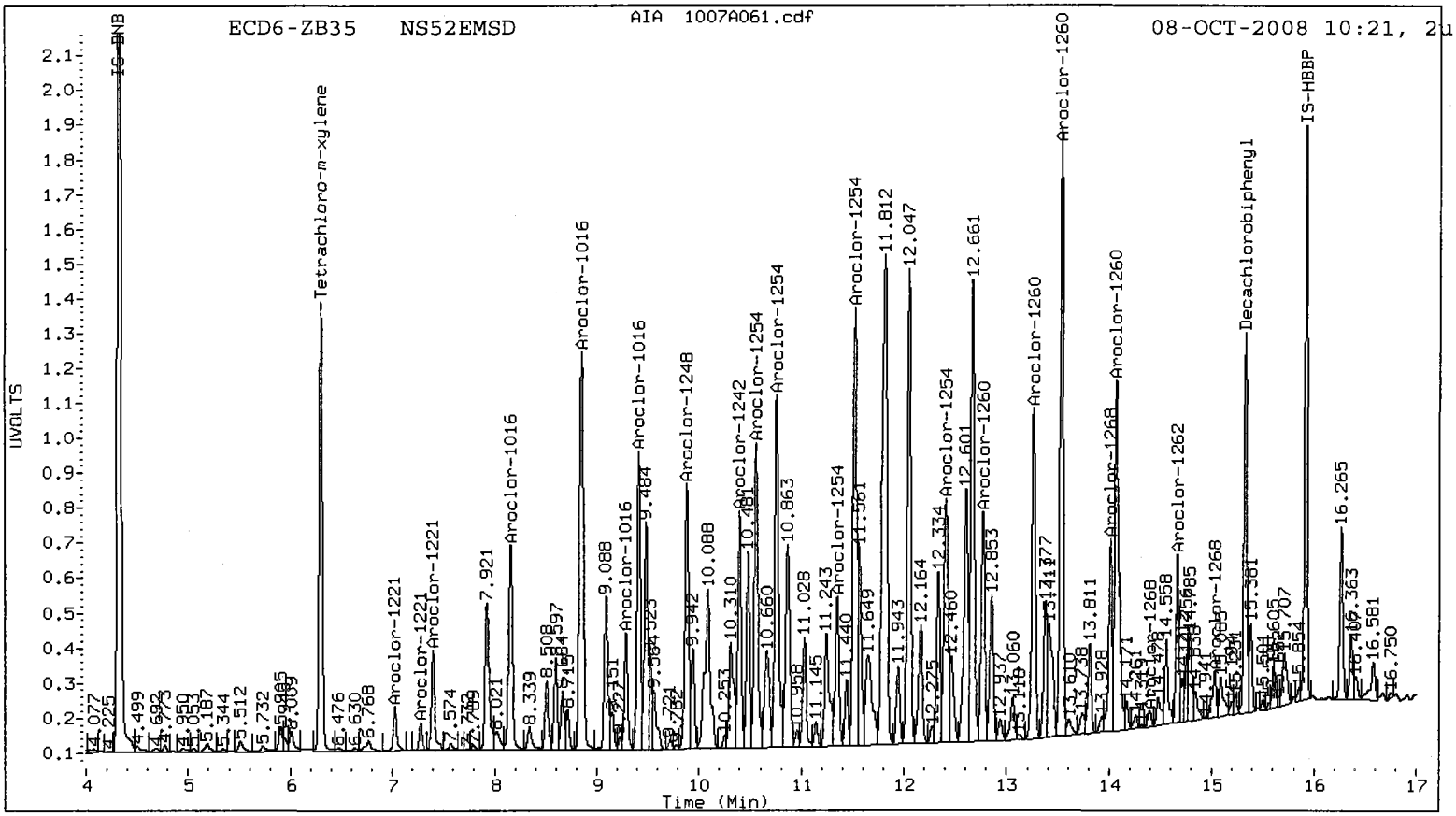
Aroclor-1268
Decachlorobiphenyl
IS-HBBP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Aroclor-1254
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Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP

Analytical Resources Inc.
Dual Column PCB Quantitation Report

Data file 1: 20081006.B/1007-1.b/1007A057.d
Data file 2: 20081006.B/1007-2.b/1007A057.d
Method: /chem2/ecd6.i/20081006.B/PCB1.m
Compound Sublist: PCB
Instrument, Inj. Vol.: ecd6.i, 2ul
Quant Method: Internal Std

ARI ID: NS52LCSS1
Client ID:
Injection Date: 08-OCT-2008 08:52
Report Date: 10/08/2008 12:00
Matrix: SOIL
Dilution Factor: 1.000

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.817	0.000	868206	6.297	0.000	605743	29.9	27.7	7.8	Tetrachloro-m-xylene
14.825	0.001	867480	15.323	0.000	574334	34.2	28.5	18.0	Decachlorobiphenyl

* Indicates RPD > 40%
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

SURROGATE PERCENT RECOVERY

SURROGATE	Col1	Col2
Tetrachloro-m-xylene	74.9	69.2
Decachlorobiphenyl	85.4	71.3

10/10/08

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	2417502	1961472	-18.9
Hexabromobiphenyl	1336983	1060938	-20.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1179079	1377426	16.8
Hexabromobiphenyl	604278	767033	26.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 06-OCT-2008
<- Indicates standard response outside Limits (-50 to +100%)

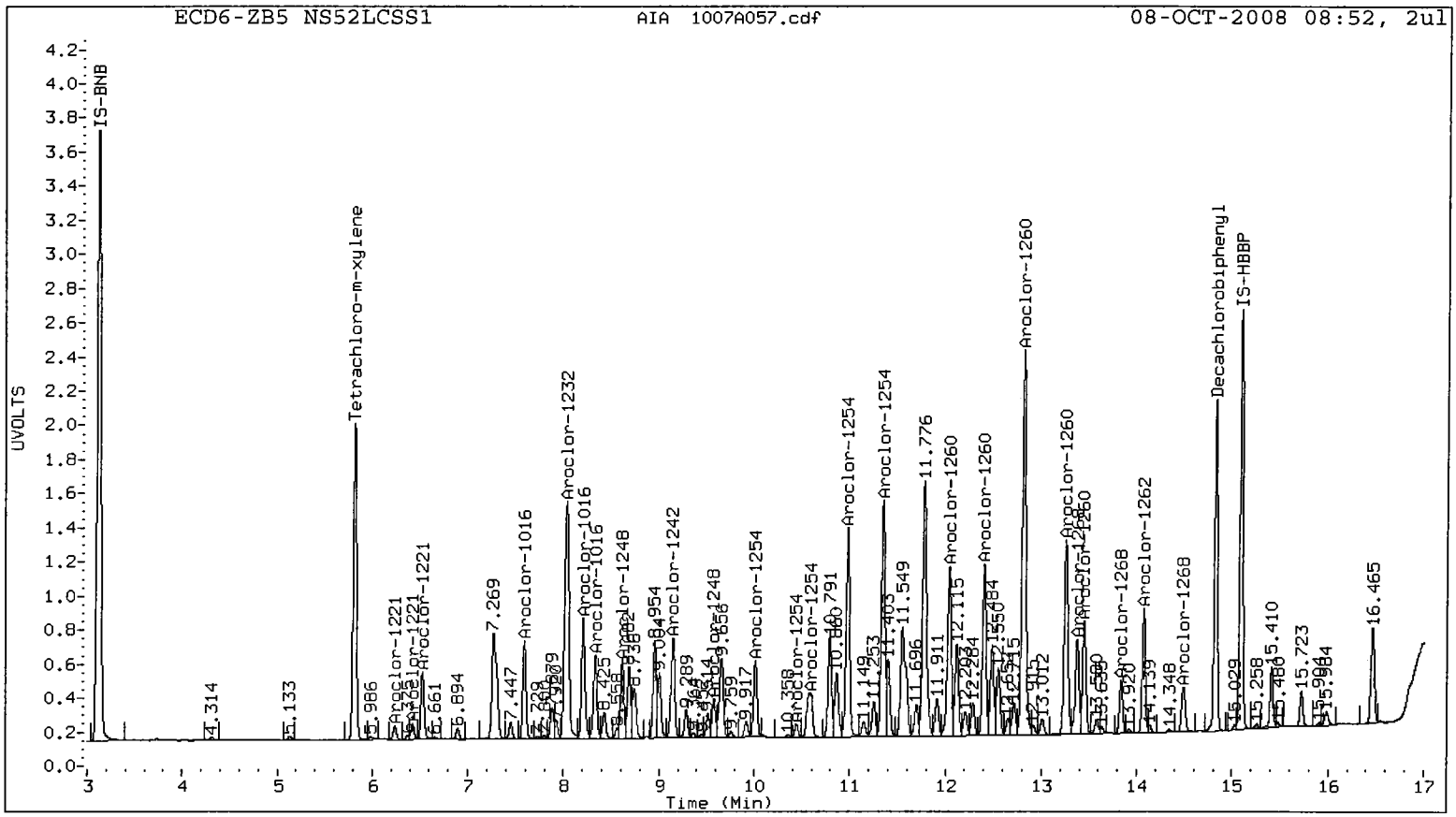
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.591	0.001	278729	344.9	1	8.151	0.000	312698	316.5
Aroclor-1016	2	8.203	0.000	369679	362.8	2	8.850	0.000	638954	338.7
Aroclor-1016	3	8.330	0.001	252908	373.9	3	9.287	0.000	164911	358.2
Aroclor-1016	NS	---			----	4	9.413	-0.001	192698	322.7
Total Col1Ave (3 peaks): 360.5					Total Col2Ave (4 peaks): 334.0				RPD = 8	
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks): 326.0					
Aroclor-1221	1	6.239	0.002	38265	115.9	1	7.025	0.005	38788	145.4
Aroclor-1221	2	6.428	0.003	43766	205.8	2	7.282	0.003	32124	206.2
Aroclor-1221	3	6.530	0.002	199139	263.3	3	7.398	0.004	134680	269.0
Aroclor-1221	NS	---			----	4	8.151	-0.004	312698	1760.3
Total Col1Ave (3 peaks): 195.0					Total Col2Ave (4 peaks): 595.2				RPD = 101*	
Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks): 206.9					
Aroclor-1232	1	6.530	0.002	199139	303.8	1	7.398	0.004	134680	306.6
Aroclor-1232	2	7.591	0.003	278729	834.9	2	8.151	0.004	312698	709.6
Aroclor-1232	3	8.031	0.003	900810	882.1	3	8.850	0.002	638954	829.4
Aroclor-1232	4	8.203	0.003	369679	862.0	4	9.287	0.004	164911	850.3
Total Col1Ave (4 peaks): 720.7					Total Col2Ave (4 peaks): 674.0				RPD = 7	
Corrected Ave (3 peaks): 666.9					Corrected Ave (3 peaks): 615.2				RPD = 8	
Aroclor-1242	1	7.591	0.000	278729	472.6	1	15.323	0.000	574334	437.0
Aroclor-1242	2	8.031	0.001	900810	502.6	2	8.850	0.000	638954	470.2
Aroclor-1242	3	8.203	0.000	369679	491.0	3	9.287	0.000	164911	479.7
Aroclor-1242	4	9.149	0.000	334138	478.6	4	9.413	-0.001	192698	452.2
Aroclor-1242	NS	---			----	5	10.399	0.000	77159	168.7
Total Col1Ave (4 peaks): 486.2					Total Col2Ave (5 peaks): 401.5				RPD = 19	
Corrected Ave (3 peaks): 480.8					Corrected Ave (4 peaks): 382.0				RPD = 23	
Aroclor-1248	1	8.031	0.003	900810	680.2	1	8.850	0.002	638954	628.7
Aroclor-1248	2	8.611	0.003	221017	264.0	2	9.413	0.002	192698	278.6
Aroclor-1248	3	9.149	0.003	334138	312.9	3	9.882	0.001	240826	314.9
Aroclor-1248	4	9.576	0.003	110193	100.9	4	10.399	0.001	77159	93.7
Total Col1Ave (4 peaks): 339.5					Total Col2Ave (4 peaks): 329.0				RPD = 3	
Corrected Ave (3 peaks): 225.9					Corrected Ave (3 peaks): 229.1				RPD = 1	
Aroclor-1254	1	10.012	0.005	219354	124.9	1	10.557	0.002	146484	177.5
Aroclor-1254	2	10.440	0.001	38970	36.0	2	10.754	0.001	146199	142.4
Aroclor-1254	3	10.589	-0.005	218912	108.6	3	11.349	0.002	26576	35.2
Aroclor-1254	4	10.977	-0.010	650543	309.4	4	11.563	0.046	343849	208.6
Aroclor-1254	5	11.346	0.002	724997	842.9	5	12.414	0.012	158039	162.5
Total Col1Ave (5 peaks): 284.3					Total Col2Ave (5 peaks): 145.3				RPD = 65*	
Corrected Ave (4 peaks): 144.7					Corrected Ave (4 peaks): 129.4				RPD = 11	
Aroclor-1260	1	12.039	0.002	557112	454.1	1	12.766	0.001	366539	372.5
Aroclor-1260	2	12.401	0.001	535046	435.0	2	13.262	0.001	416707	357.4
Aroclor-1260	3	12.813	0.001	1271010	446.0	3	13.533	0.000	853894	377.2
Aroclor-1260	4	13.257	0.001	626351	412.6	4	14.065	0.001	594460	384.0
Aroclor-1260	5	13.450	0.002	342438	474.5	NS	---			----
Total Col1Ave (5 peaks): 444.4					Total Col2Ave (4 peaks): 372.8				RPD = 18	
Corrected Ave (4 peaks): 436.9					Corrected Ave (3 peaks): 369.0				RPD = 17	
Aroclor-1262	1	12.401	0.002	535046	331.0	1	12.766	0.004	366539	227.9
Aroclor-1262	2	12.813	0.002	1271010	360.7	2	13.262	0.004	416707	280.8
Aroclor-1262	3	13.257	0.001	626351	523.5	3	13.533	0.003	853894	306.1
Aroclor-1262	4	13.450	0.003	342438	229.8	4	14.065	0.002	594460	313.3
Aroclor-1262	5	14.074	0.001	335222	272.5	5	14.664	0.003	252713	245.3
Total Col1Ave (5 peaks): 343.5					Total Col2Ave (5 peaks): 274.7				RPD = 22	
Corrected Ave (4 peaks): 298.5					Corrected Ave (4 peaks): 265.0				RPD = 12	
Aroclor-1268	1	13.377	0.003	305896	76.3	1	14.011	0.004	263369	84.5
Aroclor-1268	2	13.450	0.005	342438	96.1	2	14.065	0.001	594460	206.6
Aroclor-1268	3	13.838	0.018	148275	49.2	3	14.398	0.003	19610	8.3
Aroclor-1268	4	14.494	-0.006	147082	17.1	4	15.027	0.003	79326	11.8
Total Col1Ave (4 peaks): 59.6					Total Col2Ave (4 peaks): 77.8				RPD = 26	
Corrected Ave (3 peaks): 47.5					Corrected Ave (3 peaks): 34.9				RPD = 31	

Total PCB Area Col1 (5.917 - 14.724) = 14836770 Col1 Total PCB = 0.8 ppm*

Total PCB Area Col2 (6.398 - 15.223) = 10357708 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.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Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
Aroclor-1248
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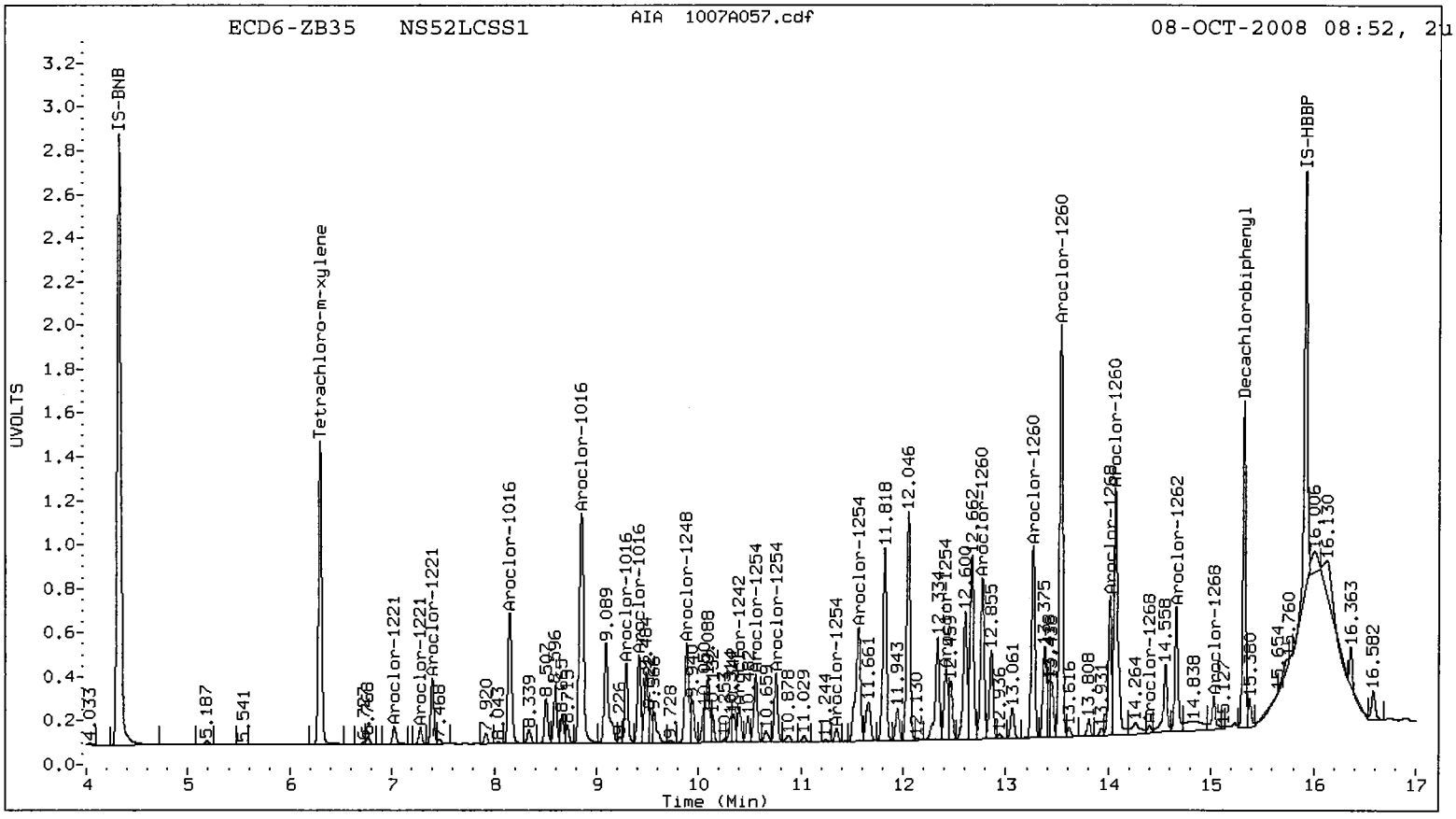
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP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Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1016
Aroclor-1221
Aroclor-1232
Aroclor-1242
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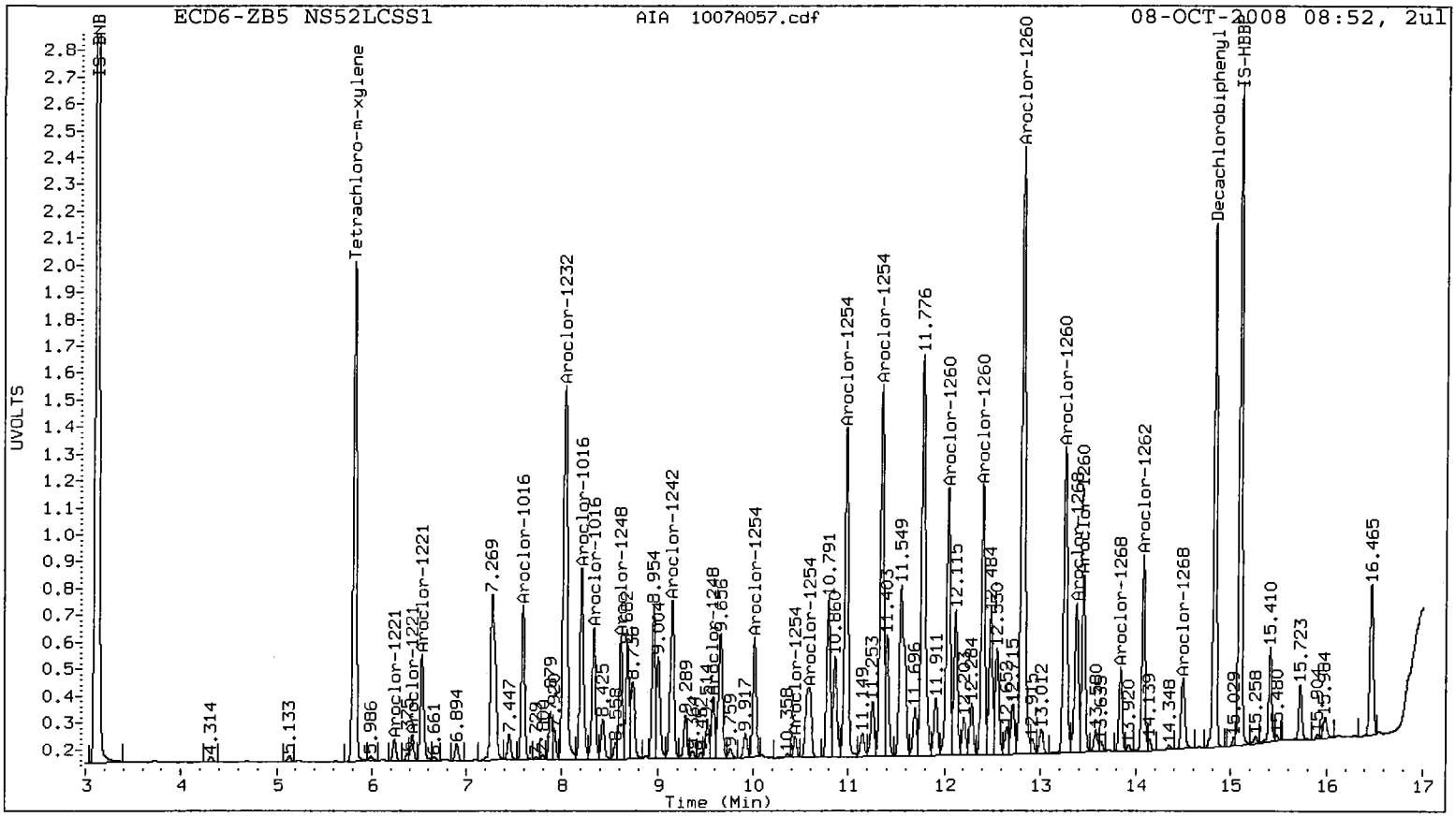
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP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08-OCT-2008 08:52, 2ul
UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1016
Aroclor-1232
Aroclor-1248
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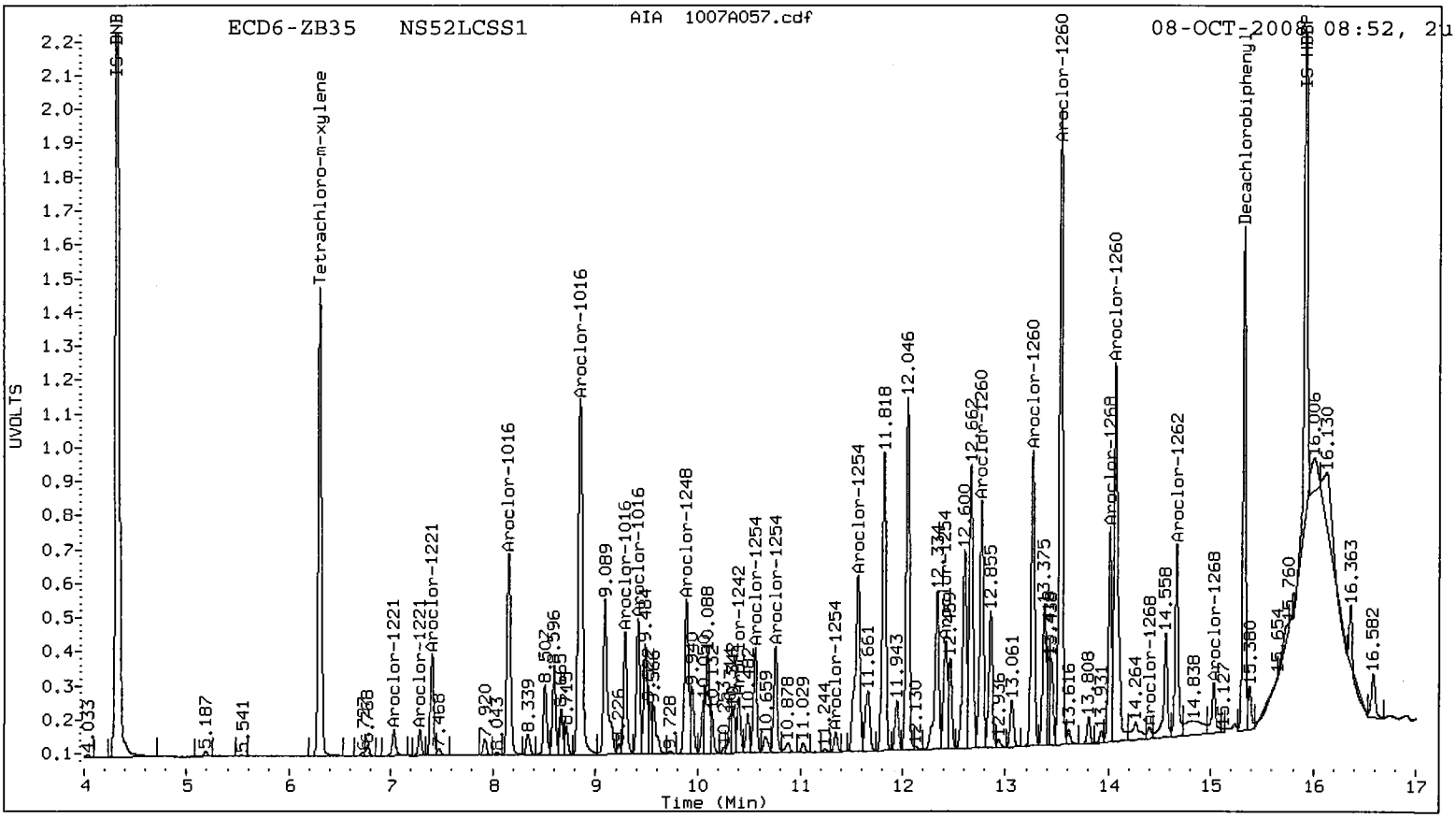
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP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UVOLTS
Time (Min)
IS-BNB
Tetrachloro-m-xylene
Aroclor-1221
Aroclor-1016
Aroclor-1248
Aroclor-1242
Aroclor-1254
Aroclor-1260
Aroclor-1262
Aroclor-1268
Decachlorobiphenyl
IS-HBBP

PCB Analysis
Extraction Benchsheets/Run Logs

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NOS: NS52

prepared
by

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

RUSH

Organic Extractions Benchsheet

PCB – Soil / (Sediment)
Sonication (3550B) (SOP # 350S)

Preparation Test PCB # 6
PSDDA (10 ppb)

ARI Job No(s) N552
Batch set up by: ~~JH~~

Bottle #	ARI Sample I.D.	Verify Client ID	Volume Extracted	KD	Turbo Vap (1) 2 3	(REQ) Acid Clean Y	(REQ) Sulfur Clean Y	(Opt) Silica Gel Clean (1:2.5) Y / N	Turbo Vap 1 2 3	Final Effective Volume	Volume to Lab	Comments
	MBS N552	Date 10/07/08	25.00g			2.5mL	2.5mL	~~1mL~~		2.5mL	1mL	10g Actual Weight
	SBS		↓		↓	↓	↓	↓		↓	↓	↓
	~~SBSDup~~		↓			↓	↓	↓		↓	↓	↓
	N552 <	Checked	46.37									
	E		35.00									
	Ems		35.93									
	Emsd		35.81									
	Analyst/Date: AL 10/07/08 →			NC 10/7	CJZ 10/07/08 →					CJZ 10/07/08 →		

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	N_2	50µL	5/29/09	AL	TWS
Spike	1	63µL	8/26/09	AL	TWS
Extraction Time:	9 x 1 g				

SPECIAL INSTRUCTIONS: 1. Extract 3X with 8:2 Hexane/Acetone. 2. KD (Normal Drying Column) on 100° bath.

3. Exchange to Hexane. 4. TurboVap. 5. Clean-ups Required. 6. TurboVap (if Silica Gel Clean). 7. Vial.

A. Archive/Freeze Y (N)

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory
Analyst Notes

ARI Job No.: N552 Client ID: Anchor Environmental, LLC

Parameter: PCB PSDDA (1¢ ppb) Client Project: Eddon Boatyard

SOP Number(s): 35¢S **No Anomalies:**

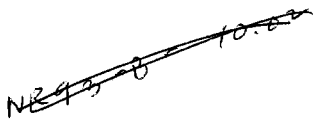
List problems, concerns, corrective actions and any other pertinent information

Analyst Initials:		Date:	

Extractions Total Solids-extts
Data By: Tarry Hawk
Created: 10/ 5/08

Worklist: 873
Analyst: TH
Comments:

	ARI ID / CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1.	NS52C 08-26288 EB-SE03-A-081003	1.06 g	12.94 g	7.58		NR
2.	NS52E 08-26290 EB-SE04-A-081003	1.14 g	12.18 g	9.14		NR



Analytical Resources Inc.: Organics Instrument Log

ECD6 Serial No.: US00007128

Date: 10/06/08 Analysis: PCB's Analyst: MR

GC Program: PCB Column No: 84767/62077 Column Type: ZB5/ZB35

Instrument Tune (.U or .CT.): N/A EM Voltage: N/A

Calibration File: N/A Curve Date: 10/06/08

IS/SS	Ical/Ccal	LCS/ICV
1546-3	1478 - 4,5,6 1479 - 2,3,4 ~~1480 - 3~~ 1540-1	

	Inject Date/Time	Filename	DF	LabID
1	06-OCT-2008 19:42	1006A015.d	1	IB
2	06-OCT-2008 20:04	1006A016.d	1	1660 0.02
3	06-OCT-2008 20:27	1006A017.d	1	1660 0.1
4	06-OCT-2008 20:49	1006A018.d	1	1660 0.25
5	06-OCT-2008 21:12	1006A019.d	1	1660 0.5
6	06-OCT-2008 21:34	1006A020.d	1	1660 1.0
7	06-OCT-2008 21:56	1006A021.d	1	1660 ICV
8	06-OCT-2008 22:19	1006A022.d	1	1242
9	06-OCT-2008 22:41	1006A023.d	1	1248
10	06-OCT-2008 23:04	1006A024.d	1	1254
11	06-OCT-2008 23:26	1006A025.d	1	2162
12	06-OCT-2008 23:48	1006A026.d	1	3268
13	07-OCT-2008 10:16	1007A001.d	1	RINSE
14	07-OCT-2008 10:39	1007A002.d	1	RINSE
15	07-OCT-2008 11:03	1007A003.d	1	0.1 PPM DDTS
16	07-OCT-2008 11:25	1007A004.d	1	AR1660
17	07-OCT-2008 11:47	1007A005.d	1	AR1254
18	07-OCT-2008 13:59	1007A006.d	1	NQ36MBS1
19	07-OCT-2008 14:21	1007A007.d	1	NQ36LCSS1
20	07-OCT-2008 14:43	1007A008.d	1	NQ36LCSDS1
21	07-OCT-2008 15:06	1007A009.d	1	NQ36I
22	07-OCT-2008 15:28	1007A010.d	1	NQ36IMS
23	07-OCT-2008 15:50	1007A011.d	1	NQ36IMSD
24	07-OCT-2008 16:12	1007A012.d	5	NQ25B
25	07-OCT-2008 16:35	1007A013.d	3	NQ25C
26	07-OCT-2008 16:57	1007A014.d	3	NQ25CMS
27	07-OCT-2008 17:19	1007A015.d	3	NQ25CMSD
28	07-OCT-2008 17:42	1007A016.d	5	NQ25D
29	07-OCT-2008 18:04	1007A017.d	5	NQ25F
30	07-OCT-2008 18:26	1007A018.d	5	NQ25G
31	07-OCT-2008 18:48	1007A019.d	5	NQ25H
32	07-OCT-2008 19:11	1007A020.d	5	NQ25I
33	07-OCT-2008 19:33	1007A021.d	5	NQ25K
34	07-OCT-2008 19:55	1007A022.d	5	NQ25L
35	07-OCT-2008 20:18	1007A023.d	5	NQ25M
36	07-OCT-2008 20:40	1007A024.d	5	NQ25N
37	07-OCT-2008 21:02	1007A025.d	1	RINSE
38	07-OCT-2008 21:24	1007A026.d	1	RINSE
39	07-OCT-2008 21:47	1007A027.d	1	AR1660
40	07-OCT-2008 22:09	1007A028.d	1	AR1248
41	07-OCT-2008 22:31	1007A029.d	1	NQ32MBS1
42	07-OCT-2008 22:53	1007A030.d	1	NQ32LCSS1
43	07-OCT-2008 23:16	1007A031.d	1	NQ32LCSDS1
44	07-OCT-2008 23:38	1007A032.d	1	NQ32C
45	08-OCT-2008 00:00	1007A033.d	1	NQ32D
46	08-OCT-2008 00:22	1007A034.d	1	NP54A
47	08-OCT-2008 00:44	1007A035.d	1	NP54B
48	08-OCT-2008 01:07	1007A036.d	1	NP95C
49	08-OCT-2008 01:29	1007A037.d	1	NP95CMS
50	08-OCT-2008 01:51	1007A038.d	1	NP54CMSD
51	08-OCT-2008 02:13	1007A039.d	1	NP54D
52	08-OCT-2008 02:36	1007A040.d	1	NP54E
53	08-OCT-2008 02:58	1007A041.d	1	RINSE
54	08-OCT-2008 03:20	1007A042.d	1	RINSE
55	08-OCT-2008 03:42	1007A043.d	1	AR1660
56	08-OCT-2008 04:04	1007A044.d	1	AR1242
57	08-OCT-2008 04:27	1007A045.d	3	NP54F
58	08-OCT-2008 04:49	1007A046.d	3	NP54G
59	08-OCT-2008 05:11	1007A047.d	5	NP54H
60	08-OCT-2008 05:33	1007A048.d	5	NP54I
61	08-OCT-2008 05:55	1007A049.d	5	NP54J
62	08-OCT-2008 06:17	1007A050.d	1	NP68A
63	08-OCT-2008 06:39	1007A051.d	1	NP68B
64	08-OCT-2008 07:02	1007A052.d	5	NP68C
65	08-OCT-2008 07:24	1007A053.d	5	NP68D
66	08-OCT-2008 07:46	1007A054.d	1	NP68E
67	08-OCT-2008 08:08	1007A055.d	5	NP68F
68	08-OCT-2008 08:30	1007A056.d	1	NS52MBS1
69	08-OCT-2008 08:52	1007A057.d	1	NS52LCSS1
70	08-OCT-2008 09:15	1007A058.d	1	NS52C
71	08-OCT-2008 09:37	1007A059.d	1	NS52E
72	08-OCT-2008 09:59	1007A060.d	1	NS52EMS
73	08-OCT-2008 10:21	1007A061.d	1	NS52EMSD
74	08-OCT-2008 10:43	1007A062.d	1	RINSE
75	08-OCT-2008 11:05	1007A063.d	1	RINSE
76	08-OCT-2008 11:28	1007A064.d	1	AR1660
77	08-OCT-2008 11:50	1007A065.d	1	AR1254

Maintenance / Comments

MR 10/09/08

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC pe

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

ARI Project ID: NSSZ Client ID: EDDON Boatyard

ARI SOP: 403S(PCB) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) Other

Parameter(s): PCBS TCMX DCB

Instrument: FID: N/A ECD: 6

Dates: Curve: 10/06/08 Analysis Start: 10/07/08

Endrin/DDT Breakdown <15%? YES / NO / (NA)

LCS/LCSD Recovery in Control? (YES) / NO

ICal Meets RF & %RSD Criteria? (YES) / NO

MS/MSD Recovery in Control? YES / NO (NA)

CCal Meets RF & %RSD Criteria (YES) / NO

Surrogate Recovery in Control? (YES) / NO

Internal Standard Meets Criteria? (YES) / NO

Special Analysis Criteria Met? YES / NO / (NA)

Method Blank in Control? (YES) / NO

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / (No)

Analyst Signature: [signature] Date: 10/08/08

Reviewer's Signature: [signature] Date: 10/8/08

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC Analyst Notes / Corrective Action Log

ARI Project ID: PCB curve Client ID: A.R.I.

ARI SOP: 403S(PCB) 405S(Herbicides) 407S(TPH-D) 409S(HCID) 423S(Pesticides) Other

Parameter(s): PCB's TCMX DCB.

Instrument: FID: N/A ECD: 6

Dates: Curve: 10/06/08 Analysis Start: 10/06/08

Endrin/DDT Breakdown <15%? YES / NO / (NA) LCS/LCSD Recovery in Control? YES / NO (NA)

ICal Meets RF & %RSD Criteria? (YES) / NO MS/MSD Recovery in Control? YES / NO ↓

CCal Meets RF & %RSD Criteria (YES) / NO Surrogate Recovery in Control? (YES) / NO

Internal Standard Meets Criteria? (YES) / NO Special Analysis Criteria Met? YES / NO / (NA)

Method Blank in Control? YES / NO (NA)

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / (No)

Analyst Signature: JK Date: 10/07/08

Reviewer's Signature: V. A Date: 10/7/2008

General Chemistry Analysis
QC Summary Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NOS: NS52

prepared
by

Analytical Resources, Inc.

MS/MSD RESULTS-CONVENTIONALS
NS52-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 10/07/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: NS52C Client ID: EB-SE03-A-081003						
Total Organic Carbon	10/06/08	Percent	2.43	5.19	2.60	106.3%

REPLICATE RESULTS-CONVENTIONALS
NS52-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 10/07/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: NS52C Client ID: EB-SE03-A-081003					
Total Solids	10/03/08	Percent	53.70	50.80 53.00	2.9%
Total Organic Carbon	10/06/08	Percent	2.43	2.57 3.25	16.0%

LAB CONTROL RESULTS-CONVENTIONALS
NS52-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 10/07/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon	10/06/08	Percent	0.498	0.500	99.6%

METHOD BLANK RESULTS-CONVENTIONALS
NS52-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 10/07/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	10/03/08	Percent	< 0.01 U
	10/03/08		< 0.01 U
Total Organic Carbon	10/06/08	Percent	< 0.020 U

STANDARD REFERENCE RESULTS-CONVENTIONALS
NS52-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 10/07/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon NIST #8704	10/06/08	Percent	3.63	3.35	108.4%

General Chemistry Analysis
Sample Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NOS: NS52

prepared
by

Analytical Resources, Inc.

SAMPLE RESULTS-CONVENTIONALS
NS52-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 10/07/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Client ID: EB-SE03-A-081003
ARI ID: 08-26288 NS52C

Analyte	Date	Method	Units	RL	Sample
Total Solids	10/03/08 100308#2	EPA 160.3	Percent	0.01	53.70
Total Organic Carbon	10/06/08 100608#1	Plumb,1981	Percent	0.020	2.43

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
NS52-Anchor Environmental, LLC

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 10/07/08

Project: EDDON BOATYARD
Event: 040289-02
Date Sampled: 10/03/08
Date Received: 10/03/08

Client ID: EB-SE04-A-081003
ARI ID: 08-26290 NS52E

Analyte	Date	Method	Units	RL	Sample
Total Solids	10/03/08 100308#2	EPA 160.3	Percent	0.01	73.20
Total Organic Carbon	10/06/08 100608#1	Plumb,1981	Percent	0.020	1.21

RL Analytical reporting limit
U Undetected at reported detection limit

General Chemistry Analysis
Instrument Raw Data

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NOS: NS52

prepared
by

Analytical Resources, Inc.

10/7/08

TOC Solids Prep Log

acid purging to remove IC and drying at 70°C for TOC analysis

General notes regarding prep method and samples (identify the acid used)

DATE:	10/3/2008
ANALYST:	CDE 12:46

make no entry to shaded cells, they are calculated

Sample ID		IC Test	Gravimetric Data (grams)			%	*Sample description & notes*
ARI #	Client	+ / -	Tare Wt.	Wet wt.	70°C dry wt	Solids	*(homogeneity and exclusions)*
Blank			12.8724		12.8722	-0.2 mg	
NS27 A2							
NS27 A2 DUP							
NS27 A2 TRIP							
NS27 B2							
NS27 C2							
NS27 D2							
NS27 E2							
NS27 F2							
NS27 G2							
NS27 H2							
NS27 I 2							
NS27 J 2							
NS27 K2							
NS27 L2							
NS27 M2							
NS39 A2		-	12.8943	19.0051	17.4392	74.37%	
NS39 B2		-	12.9040	18.6183	15.0443	37.46%	
NS39 B2 DUP		-	12.8671	18.8569	15.1211	37.63%	
NS39 B2 TRIP		-	12.8979	18.8697	15.1360	37.48%	
NS52 C1		-	12.8599	18.9806	16.2728	55.76%	
NS52 C1 DUP		-	12.8919	18.8669	16.2160	55.63%	
NS52 C1 TRIP		-	12.9201	18.9233	16.2445	55.38%	
NS52 E1		-	12.8664	18.6935	16.9914	70.75%	
Blank			12.8950		12.8946	0.00%	

10-3-08 COE

Analytical Resources, Incorporated
Analytical Chemists and Consultants

TOC Solids Preparation Log

Acid purge to remove IC and drying 70 °C for TOC analysis
Add general notes regarding samples and preparation and identify the acid used

Analyst COE Date 10-3-08 12:46

Sample Identification		IC	Gravimetric Data			% Solids	Sample description & notes
ARI #	Client ID	Test	Tare	Wet	70 °C		
Blank			12.8724	Ø	12.8722		
① NS27 A²		-	12.8494	18.7979	16.4542		
DP A²		-	12.9054	18.5141	16.3160		
TP A²		-	12.8475	18.4568	16.2733		
B²		-	12.8829	18.3749	15.4267		
C²		-	12.8627	19.1136	16.7410		
D²		-	12.8505	18.3939	15.2792		
E²		-	12.8935	18.3583	15.2026		
F²		-	12.8789	18.2554	15.0837		
G²		-	12.8933	19.0469	17.3196		
H²		+	12.8663	18.6916			
I²		-	12.8759	18.7919	16.3879		
J²		+ -	12.9259	18.3814			
K²		-	12.9045	18.1669	16.0249		
L²		-	12.8774	18.4574	15.4790		
M²		-	12.8665	18.6151	16.1387		
NS39 A²		-	12.8943	~~18.8675~~	17.0051	17.4392	
B²		-	12.9040	~~18.8495~~	18.6183	15.0443	
DP B²		-	12.8671	~~18.7641~~	18.8569	15.1211	
TP B²		-	12.8979	~~18.3819~~	18.8697	15.1360	
NS52 C'		-	12.8599	18.9806	16.2728		
DP C'		-	12.8919	18.8669	16.2160		
TP C'		-	12.9201	18.9233	16.2445		
E'		-	12.8664	18.6935	16.9914		
Blank			12.8950	Ø	12.8946		
			10-3-08				
			COE				

10/7/50

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

SOLIDS *(dry at 104 (12-24 hr) then combust at 550 (30 min))*

DATE: 10/3/2008

ANALYST: CDE / RR 12:26

Batch drying time

record times as mm/dd/yy hh:mm

time in oven

time out

elapsed hrs = 0.0 < 12 hr

TS (%) calculated as:
Final dry wt (g) = (Dry Wt - Tare Wt)
TS = (Final Dry Wt)/ (grams Sample-Tare)

TVS (mg/kg dry wt) calculated as:
Final ash wt (g) = (min ash wt - tare wt)
*TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000*
if ash wt > dry wt, "Chk for Err"
*if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000*

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams) 1			dry Wt (g)	TS (%)	ASH WT 550C (grams) 1	2		Ash Wt (g)	TVS (mg/kg)	(%)
Cal Date -->		10/3/2008	10/3/2008	10/4/2008					10/4/2008	10/4/2008				
Time & Initials -->		20:10 CDE	19:48 CDE	11:00 CDE					12:15 RR	13:10 RR				
Cal Wt (g) 10.0000		9.9995	9.9995	9.9994					9.9995	9.9997				
record weights to 4 places		*Cal OK!*	*Cal OK!*	*Cal OK!*					*Cal OK!*	*Cal OK!*				
Blank		0.0000	1.0908	1.0902			0.00		1.0899	1.0899	OK	0.00		
NS27 A2		6.3245	1.0844	4.1626			3.08	58.7%						
NS27 A2 dup		6.9572	1.0727	4.5427			3.47	59.0%						
							RPD =	0.38%				RPD =	NA	
NS27 A2 trp		6.6281	1.0949	4.3622			3.27	59.0%						
							RSD =	0.27%				RSD =	NA	
NS27 B2		6.2886	1.0970	3.4024			2.31	44.4%						
NS27 C2		6.9704	1.0959	4.6108			3.51	59.8%						
NS27 D2		7.0643	1.1117	3.5431			2.43	40.8%						
NS27 E2		6.4684	1.0864	3.2268			2.14	39.8%						
NS27 F2		6.5900	1.0996	3.2201			2.12	38.6%						
NS27 G2		6.7062	1.1395	4.9195			3.78	67.9%						
NS27 H2		6.7409	1.1099	4.7020			3.59	63.8%						
NS27 I 2		6.4011	1.1225	4.1470			3.02	57.3%						
NS27 J 2		6.7132	1.1025	4.4237			3.32	59.2%						
NS27 K2		6.8492	1.0978	4.3643			3.27	56.8%						
NS27 L2		6.6540	1.0953	3.5806			2.49	44.7%	3.1697	3.1668	OK	2.07	166,499	16.65%
NS27 M2		6.9295	1.0907	4.3449			3.25	55.7%	4.0752	4.0709	OK	2.98	84,199	8.42%
NS36 C2		6.6366	1.1123	6.1189			5.01	90.6%						
NS36 D2		6.7711	1.0878	6.2682			5.18	91.2%						
NS36 D2 dup		6.7093	1.0896	6.2315			5.14	91.5%						
							RPD =	0.38%				RPD =	NA	
NS36 D2 trp		6.5657	1.0931	6.0947			5.00	91.4%						
							RSD =	0.19%				RSD =	NA	

0626

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

DATE: 10/3/2008

SOLIDS *(dry at 104 (12-24 hr) then combust at 550 (30 min))*

ANALYST: CDE / RR 12:26

Batch drying time			*TS (%) calculated as:*	*TVS (mg/kg dry wt) calculated as:*
record times as mm/dd/yy hh:mm			*Final dry wt (g) = (Dry Wt - Tare Wt)*	*Final ash wt (g) = (min ash wt - tare wt)*
time in oven			*TS = (Final Dry Wt)/ (grams Sample-Tare)*	*TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000*
time out				*if ash wt > dry wt, "Chk for Err"*
elapsed hrs =	0.0	< 12 hr		*if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000*

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams) 1			dry Wt (g)	TS (%)	ASH WT 550C (grams) 1	2		Ash Wt (g)	TVS (mg/kg)	TVS (%)
NS39 A2		6.8748	1.0871	5.2059			4.12	71.2%						
NS39 B2		6.2266	1.1006	2.8953			1.79	35.0%						
NS39 B2 dup		6.1865	1.0960	2.8775			1.78	35.0%						
							RPD =	0.04%				RPD =		NA
Blank		0.0000	1.1230	1.1228			0.00							
NS39 B2 trp		6.2182	1.0985	2.8900			1.79	35.0%						
							RSD =	0.03%				RSD =		NA
NS52 C2		6.1136	1.1029	3.7920			2.69	53.7%						
NS52 C2 dup		6.1080	1.0811	3.6366			2.56	50.8%						
							RPD =	5.42%				RPD =		NA
NS52 C2 trp		6.2603	1.0875	3.8276			2.74	53.0%						
							RSD =	2.81%				RSD =		NA
NS52 E1		6.5393	1.0837	5.0751			3.99	73.2%						

0627

① 10-3-08 CDE

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

SOLIDS *(dry at 104 (12-24 hr) then combust at 550 (30 min))*

DATE: 10-3-08

ANALYST: CDE/RR 12:26

Batch drying time

record times as mm/dd/yy hh:mm

time in oven

time out

elapsed hrs = 0.0 < 12 hr

TS (%) calculated as:
Final dry wt (g) = (Dry Wt - Tare Wt)
TS = (Final Dry Wt)/ (grams Sample-Tare)

TVS (mg/kg dry wt) calculated as:
Final ash wt (g) = (min ash wt - tare wt)
*TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000*
if ash wt > dry wt, "Chk for Err"
*if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000*

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams) 1			dry Wt (g)	TS (%)	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	TVS (mg/kg)	(%)
Cal Date -->		10-3-08	10-3-08	10-4-08					10/4/08	10/4/08				
Time & Initials -->		CDE 10:10	19:48 CDE	9100 CDE					12:15 RR	13:10 RR				
Cal Wt (g)	10.0000	9.9995	9.9995	9.9994					9.9995	9.9997				
record weights to 4 places														
Blank	025	Ø	1.0908	1.0902					1.0899	1.0899				
NS27 A²	26	6.3245	1.0844	4.1626										
DP A²	27	6.9572	1.0727	4.5427										
TP A²	28	6.6281	1.0949	4.3622										
B²	29	6.2886	1.0970	3.4024										
C²	30	6.9704	1.0959	4.6108										
D²	31	7.0645	1.1117	3.5431										
E²	32	6.4684	1.0864	3.2268										
F²	33	6.5900	1.0996	3.2201										
G²	34	6.7062	1.1395	4.9195										
H²	35	6.7409	1.1099	4.7020										
I²	36	6.4011	1.1225	4.1420										
J²	37	6.7132	1.1025	4.4237										
K²	38	6.8492	1.0978	4.3643										
L²	39	6.6540	1.0953	3.5806					3.1697	3.1668				
M²	40	6.9295	1.0907	4.3449					4.0752	4.0709				
NS36 C²	41	6.6366	1.1123	6.1189										
D²	42	6.7711	1.0878	6.2682										
DP D²	43	6.7093	1.0896	6.2315										
TP D²	44	6.5657	1.0931	6.0947										
NS39 A²	45	6.8748	1.0871	5.2059										
B²	46	6.2266	1.1006	2.8953										
DP B²	47	6.1865	1.0960	2.8775										
① ~~TP B²~~														

0628

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

SOLIDS *(dry at 104 (12-24 hr) then combust at 550 (30 min))*

DATE: 10-3-08

ANALYST: CDL 12:26

Batch drying time

record times as mm/dd/yy hh:mm

10-3-08 time in oven 21:39

10/4/08 time out 10:45

elapsed hrs = 0.0 < 12 hr

TS (%) calculated as:

Final dry wt (g) = (Dry Wt - Tare Wt)

TS = (Final Dry Wt)/ (grams Sample-Tare)

TVS (mg/kg dry wt) calculated as:

Final ash wt (g) = (min ash wt - tare wt)

*TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000*

if ash wt > dry wt, "Chk for Err"

*if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000*

SAMPLE ID	DISH #	SAMPLE (grams)	TARE WT (grams)	DRY WT 104C (grams) 1			dry Wt (g)	TS (%)	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	TVS (mg/kg)	(%)
Cal Date -->														
Time & Initials -->														
Cal Wt (g) 10.0000														
record weights to 4 places														
Blank	48	Ø	1.1230	1.1228										
NS39 TPB²	49	6.2182	1.0985	2.8900										
NS52 C'	50	6.1136	1.1029	3.7920										
DP C'	51	6.1080	1.0911	3.6366										
TP C'	52	6.2603	1.0875	3.8276										
E'	53	6.5393	1.0837	5.0751										

0629

10/7/08

TOC, Solids Data Analysis, DC-190

DATE: 10/6/08 10:52

Mode: NPOC *Inlet:* Boat

ANALYST: KE

Spike Std = 2,000 *ppm C*

Calibration Data

Calibration Standard Source: ARI # 0086 - 06 *Conc (ppm):* 2,000

Observed Values (µg/g)	mean	*Cal Factor*

Verification Standard *Source:* **ERA 0582 - 08 - 02** *Conc (ppm):* 5,000

Standard Reference Material *Source:* ***NIST 8704*** *Conc (ppm):* **33,510**

Blank Data

System Blanks (enter "observed C")

Replicate Determinations						Mean	condition
Replicate	1	2	3	4	5		
ppm	10.67	6.30	3.40	4.24	13.72	7.67	*OK !*

Historical Blank Limits

mean	*stdev*
17.8	7.23
LBL	-3.9
UBL	39.5

Silica Blanks (enter "corrected C" at end of run)

Replicate	1	2	3	4	5	Mean	condition

Sample Data *(Entered data must match the Dohrmann output report !)*

"Corrected C" (no dilution) = "Observed C" - Mean Blank

*"Corrected C" (with dilution) = ("Observed C" - (Mean silica Blank * %Silica)) * Dilution Factor*

Sample ID	Dilution Data: Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor	Spike (µL Std)	Combustion Data: Burn wt. (mg)	Observed C (ppm C)	Corrected C (ppm C)	
ICV				1.00		10.0	4988	4,980	*99.61%*
Blank				1.00		10.0	10.67		*Blank OK*
NIST 8704				1.00		3.3	36310	36,302	*108.33%*
NK08 A2				1.00		3.0	2167	2,159	*Range OK!*
~~NK08 A2 dup~~				~~1.00~~		~~3.1~~	~~1736~~	~~1,728~~	~~*RPD=22.2%*~~
NK08 A2 dup				1.00		3.2	2480	2,472	*RPD=13.5%*
NK08 A2 trp				1.00		3.1	2369	2,361	*RSD=6.8%*
NK08 A2 ms				1.00	10	3.5	8798	8,790	*Range OK!*
Spike =	*0.02*	*mg C to*	*3.5*	*mg samp=*	*5,714*	*ppm*		*116%*	
NK08 B2				1.00		3.0	1311	1,303	*Range OK!*
NK08 E2				1.00		2.2	5190	5,182	*Range OK!*
NK08 F2				1.00		3.1	4101	4,093	*Range OK!*
NK08 G2				1.00		3.2	4565	4,557	*Range OK!*
CCV				1.00		10.0	5216	5,208	*104.17%*
Blank				1.00		10.0	6.301		*Blank OK*
NJ95 A2				1.00		2.8	6699	6,691	*Range OK!*
NJ95 A2 dup				1.00		3.0	5932	5,924	*RPD=12.2%*
~~NJ95 A2 trp~~				~~1.00~~		~~2.9~~	~~8951~~	~~8,943~~	~~*RSD=21.8%*~~
NJ95 A2 trp				1.00		3.1	7245	7,237	*RSD=10%*
~~NJ95 A2 ms~~			-	~~1.00~~	~~10~~	~~2.9~~	~~18000~~	~~17,992~~	~~*Range OK!*~~
~~*Spike =*~~	~~*0.02*~~	~~*mg C to*~~	~~*2.9*~~	~~*mg samp=*~~	~~*6,897*~~	~~*ppm*~~		~~*170%*~~	
~~NJ95 A2 ms~~			-	~~1.00~~	~~10~~	~~2.9~~	~~15590~~	~~15,582~~	~~*Range OK!*~~
~~*Spike =*~~	~~*0.02*~~	~~*mg C to*~~	~~*2.9*~~	~~*mg samp=*~~	~~*6,897*~~	~~*ppm*~~		~~*129%*~~	
NJ95 A2 ms				1.00	10	2.5	15990	15,982	*Range OK!*
Spike =	*0.02*	*mg C to*	*2.5*	*mg samp=*	*8,000*	*ppm*		*116%*	
NJ95 B2				1.00		1.9	24150	24,142	*Range OK!*
NJ95 C2				1.00		1.6	37040	37,032	*Range OK!*
NJ95 F2				1.00		2.4	15820	15,812	*Range OK!*
CCV				1.00		10.0	5387	5,379	*107.59%*
Blank				1.00		10.0	3.398		*Blank OK*
NJ95 G2				1.00		3.1	10480	10,472	*Range OK!*

Sample Data *(Entered data must match the Dohrmann output report !)*

"Corrected C" (no dilution) = "Observed C" - Mean Blank

*"Corrected C" (with dilution) = ("Observed C" - (Mean silica Blank * %Silica)) * Dilution Factor*

Sample ID	Dilution Data				Spike	Combustion Data			
	Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor	(µL Std)	Burn wt. (mg)	Observed C (ppm C)	Corrected C (ppm C)	
NJ95 H1				1.00		1.9	7680	7,672	*Range OK!*
NJ95 I 2				1.00		2.4	9082	9,074	*Range OK!*
NJ95 L2				1.00		3.3	10130	10,122	*Range OK!*
NJ95 M2				1.00		1.8	7790	7,782	*Range OK!*
NJ95 N2				1.00		1.9	6959	6,951	*Range OK!*
NS52 C1				1.00		2.7	23390	23,382	*Range OK!*
NS52 C1 dup				1.00		2.8	24760	24,752	*RPD=5.7%*
NS52 C1 trp				1.00		2.7	31300	31,292	*RSD=16%*
NS52 C1 ms				1.00	20	1.6	49990	49,982	*Range OK!*
Spike =	*0.04*	*mg C to*	*1.6*	*mg samp=*	*25,000*	*ppm*		*106%*	
CCV				1.00		10.0	5127	5,119	*102.39%*
Blank				1.00		10.0	4.237		*Blank OK*
NS52 E1				1.00		2.3	12520	12,512	*Range OK!*
NIST 8704				1.00		2.9	32850	32,842	*98.01%*
CCV				1.00		10.0	5249	5,241	*104.83%*
Blank				1.00		10.0	13.72		*Blank OK*

Analytical Resources, Incorporated
Analytical Chemists and Consultants

(1) 10-6-08 (W)

TOC Solids Sample Run Log

Set-Up Parameters MODE: NPOC **INLET:** BOAT

Standards:	Source	Conc (ppm)
Calibration:	ARI 1086-06	2000
Verification:	ERA 0582-08-02	5000
SRM:	NBS 8704	33510

10:52

Sample Sequence:

Sample ID	Dilution Data (mg)		Burn Wt	Matrix Spike Data		Comments
	Sample	+ Silica Gel	mg	mg/L	µL added	
ICV			10			
ICB			10			
NBS8704			3.3			
NK08 A2			3.0			
DP A2			3.1			
DP A2			3.2			
DP A2			3.1			
MS A2			3.5	2000	10	
B2			3.0			
E2			2.2			
F2			3.1			
G2			3.2			
CCV			10			
CCB			10			
NJ95 A2			2.8			
DP A2			3.0			
DP A2			2.9			
DP A2			3.1			
MS A2			2.9	2000	10	High
MS A2			2.9	2000	10	Air flow 183 (Low)
MS A2			2.5	2000	16	Air flow 191 (OK)
B2			1.9			
C2			1.6			
F2			2.4			
CCV			10			
CCB			10			
NJ95 G2			3.1			
H2			1.9			
I2			2.4			
L2			3.3			
M2			1.8			
N2			1.9			

Cont. from 02157

① 10-6-08

Analytical Resources, Incorporated
Analytical Chemists and Consultants

TOC Solids Sample Run Log

Set-Up Parameters MODE: NPOC		INLET: BOAT
Standards:	Source	Conc (ppm)
Calibration:	ARI 0086-06	2000
Verification:	ERA 058-20802	5000
SRM:	NBS 8204	33510

10:52

Sample Sequence:

Sample ID	Dilution Data (mg)		Burn Wt	Matrix Spike Data		Comments
	Sample	+ Silica Gel	mg	mg/L	µL added	
NS52 ~~OAC'~~			2.7			
~~OAC'~~			2.8			
~~X~~ C'			2.7			
~~X~~ C'			1.6	2000	20	
CCV			10			
CCB			10			
NS52 E²			2.3			
NBS 8704			~~2.9~~			
CCV			10			
CCB			10			

10-6-08 (W)

10-6-08(W)

Operating Parameters

Analysis set-up 1
NPOC Analysis
Boat mode
Sample size 10.
Calibration factor 1.266259
System blank 0.
Std. concentration =2000.
Sample mass (mg) = 10.
1. NPOC = 4988. ug/g
10:38:25 Mon Oct 6, 2008
Sample mass (mg) = 10.
1. NPOC = 10.67 ug/g
12:04:06 Mon Oct 6, 2008
Sample mass (mg) = 3.3
1. NPOC = 36310. ug/g
12:10:08 Mon Oct 6, 2008
Sample mass (mg) = 3.
1. NPOC = 2167. ug/g
12:15:48 Mon Oct 6, 2008
Sample mass (mg) = 3.1
1. NPOC = 1736. ug/g
12:22:27 Mon Oct 6, 2008
Sample mass (mg) = 3.2
1. NPOC = 2480. ug/g
12:31:44 Mon Oct 6, 2008
Sample mass (mg) = 3.1
1. NPOC = 2369. ug/g
12:39:21 Mon Oct 6, 2008
Sample mass (mg) = 3.5
1. NPOC = 8798. ug/g
12:56:24 Mon Oct 6, 2008
Sample mass (mg) = 3.
1. NPOC = 1311. ug/g
13:02:59 Mon Oct 6, 2008
Sample mass (mg) = 2.2
1. NPOC = 5190. ug/g
13:20:20 Mon Oct 6, 2008
Sample mass (mg) = 3.1
1. NPOC = 4101. ug/g
13:28:33 Mon Oct 6, 2008
Sample mass (mg) = 3.2
1. NPOC = 4565. ug/g
13:40:01 Mon Oct 6, 2008
Sample mass (mg) = 10.
1. NPOC = 5216. ug/g
14:03:17 Mon Oct 6, 2008
Sample mass (mg) = 10.
1. NPOC = 6.301 ug/g
14:09:39 Mon Oct 6, 2008
Sample mass (mg) = 2.8
1. NPOC = 6699. ug/g
14:24:32 Mon Oct 6, 2008
Sample mass (mg) = 3.
1. NPOC = 5932. ug/g
15:54:17 Mon Oct 6, 2008
Sample mass (mg) = 2.9
1. NPOC = 8951. ug/g
16:30:15 Mon Oct 6, 2008
Sample mass (mg) = 3.1
1. NPOC = 7245. ug/g

Sample mass (mg) = 2.9
1. NPOC = 18000. ug/g
16:50:09 Mon Oct 6, 2008
Sample mass (mg) = 2.9
1. NPOC = 15590. ug/g
17:09:12 Mon Oct 6, 2008
Sample mass (mg) = 2.5
1. NPOC = 15990. ug/g
17:16:04 Mon Oct 6, 2008
Sample mass (mg) = 1.9
1. NPOC = 24150. ug/g
17:24:54 Mon Oct 6, 2008
Sample mass (mg) = 1.6
1. NPOC = 37040. ug/g
17:35:57 Mon Oct 6, 2008
Sample mass (mg) = 2.4
1. NPOC = 15820. ug/g
17:44:58 Mon Oct 6, 2008
Sample mass (mg) = 10.
1. NPOC = 5387. ug/g
17:54:19 Mon Oct 6, 2008
Sample mass (mg) = 10.
1. NPOC = 3.398 ug/g
18:27:35 Mon Oct 6, 2008
Sample mass (mg) = 3.1
1. NPOC = 10480. ug/g
18:36:55 Mon Oct 6, 2008
Sample mass (mg) = 1.9
1. NPOC = 7680. ug/g
18:44:29 Mon Oct 6, 2008
Sample mass (mg) = 2.4
1. NPOC = 9082. ug/g
18:54:59 Mon Oct 6, 2008
Sample mass (mg) = 3.3
1. NPOC = 10130. ug/g
19:11:39 Mon Oct 6, 2008
Sample mass (mg) = 1.8
1. NPOC = 7790. ug/g
19:22:29 Mon Oct 6, 2008
Sample mass (mg) = 1.9
1. NPOC = 6959. ug/g
19:30:37 Mon Oct 6, 2008
Sample mass (mg) = 2.7
1. NPOC = 23390. ug/g
19:34:53 Mon Oct 6, 2008
Sample mass (mg) = 2.8
1. NPOC = 24760. ug/g
19:42:42 Mon Oct 6, 2008
Sample mass (mg) = 2.7
1. NPOC = 31300. ug/g
19:52:05 Mon Oct 6, 2008
Sample mass (mg) = 1.6
1. NPOC = 49990. ug/g
20:03:21 Mon Oct 6, 2008
Sample mass (mg) = 10.
1. NPOC = 5127. ug/g
20:10:17 Mon Oct 6, 2008
Sample mass (mg) = 10.
1. NPOC = 4.237 ug/g
20:15:06 Mon Oct 6, 2008
Sample mass (mg) = 2.3
1. NPOC = 12520. ug/g
20:20:04 Mon Oct 6, 2008
Sample mass (mg) = 2.9
1. NPOC = 32850. ug/g

Sample mass (mg) = 10.
1. NPOC = 5249. ug/g
20:33:46 Mon Oct 6, 2008
Sample mass (mg) = 10.
1. NPOC = 13.72 ug/g
20:35:46 Mon Oct 6, 2008

Geotech Analysis

prepared
for

ANCHOR ENVIRONMENTAL, LLC

Project: Eddon Boatyard, 040289-02

ARI JOB NOS: NS52

prepared
by

Analytical Resources, Inc.

Anchor Environmental, LLC
Eddon Boatyard 040289-02

Apparent Grain Size Distribution Summary
Percent Finer Than Indicated Size

Sample No.	Gravel			Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt				Clay	
Phi Size	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
Sieve Size (microns)	3/8"	#4	#10 (2000)	#18 (1000)	#35 (500)	#60 (250)	#120 (125)	#230 (62)	31.00	15.60	7.80	3.90	2.00	1.00
NI75 A-1	100.0	100.0	98.6	97.2	96.2	93.2	80.1	71.9	64.8	53.3	38.5	25.1	15.4	9.8
NI75 A-2	100.0	100.0	98.9	97.2	96.1	93.0	79.3	70.9	64.1	52.7	37.7	24.2	15.1	9.8
NI75 A-3	100.0	100.0	98.6	97.2	96.1	93.1	80.0	71.9	64.9	53.1	38.1	24.1	14.9	9.5
EB-SE03-A-081003	100.0	100.0	98.4	96.5	93.8	79.9	57.3	40.0	36.4	26.1	19.6	15.5	12.1	8.4
EB-SE04-A-081003	100.0	98.8	92.1	86.6	74.9	47.4	29.0	22.1	16.3	11.1	8.2	6.1	5.1	3.6

Notes to the Testing:

1. Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.

NS52

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Anchor Environmental, LLC
Eddon Boatyard 040289-02

Apparent Grain Size Distribution Summary
Percent Retained in Each Size Fraction

Sample No.	Gravel	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Coarse Silt	Medium Silt	Fine Silt	Very Fine Silt	Clay			Total Fines
Phi Size	> -1	-1 to 0	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	< 10	<4
Sieve Size (microns)	> #10 (2000)	10 to 18 (2000-1000)	18-35 (1000-500)	35-60 (500-250)	60-120 (250-125)	120-230 (125-62)	62.5-31.0	31.0-15.6	15.6-7.8	7.8-3.9	3.9-2.0	2.0-1.0	<1.0	<230 (<62)
NI75 A-1	1.4	1.4	1.0	3.0	13.1	8.1	7.2	11.4	14.8	13.4	9.7	5.6	9.8	71.9
NI75 A-2	1.1	1.8	1.0	3.2	13.7	8.4	6.8	11.4	15.0	13.6	9.0	5.4	9.8	70.9
NI75 A-3	1.4	1.4	1.1	2.9	13.2	8.1	6.9	11.8	15.0	14.1	9.2	5.4	9.5	71.9
EB-SE03-A-081003	1.6	1.9	2.6	14.0	22.6	17.3	3.6	10.3	6.4	4.2	3.4	3.7	8.4	40.0
EB-SE04-A-081003	7.9	5.4	11.7	27.6	18.4	6.9	5.8	5.1	3.0	2.1	1.0	1.4	3.6	22.1

Notes to the Testing:
1. Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.

NS52

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QA SUMMARY

PROJECT:	Anchor Environmental, LLC	Project No.:	Eddon Boatyard 040289-02
ARI Triplicate Sample ID:	NI75 A	Batch No.:	NS52 -1
		Page:	1 of 1

Relative Standard Deviation, By Phi Size

Sample ID	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
NI75 A-1	100.0	100.0	98.6	97.2	96.2	93.2	80.1	71.9	64.8	53.3	38.5	25.1	15.4	9.8
NI75 A-2	100.0	100.0	98.9	97.2	96.1	93.0	79.3	70.9	64.1	52.7	37.7	24.2	15.1	9.8
NI75 A-3	100.0	100.0	98.6	97.2	96.1	93.1	80.0	71.9	64.9	53.1	38.1	24.1	14.9	9.5
AVE	NA	100.00	98.71	97.17	96.12	93.09	79.77	71.56	64.59	53.04	38.13	24.45	15.15	9.70
STDEV	NA	0.00	0.19	0.01	0.05	0.12	0.45	0.59	0.46	0.31	0.39	0.60	0.25	0.14
%RSD	NA	0.00	0.19	0.01	0.05	0.13	0.56	0.82	0.72	0.59	1.01	2.45	1.62	1.47

The Triplicate Applies To The Following Samples

Client ID	Date Sampled	Date Extracted	Date Complete	QA Ratio (95-105)	Data Qualifiers	Pipette Portion (5.0-25.0g)
NI75 A-1	8/1/2008	8/30/2008	9/4/2008	101.5		23.6
NI75 A-2	8/1/2008	8/30/2008	9/4/2008	101.1		23.3
NI75 A-3	8/1/2008	8/30/2008	9/4/2008	101.1		23.4
EB-SE03-A-081003	10/3/2008	10/7/2008	10/15/2008	100.3		9.0
EB-SE04-A-081003	10/3/2008	10/7/2008	10/15/2008	101.5		7.8

* ARI Internal QA limits = 95-105%

Notes to the Testing:

1. Organic matter was not removed prior to testing, thus the reported values are the "apparent" grain size distribution. See narrative for discussion of the testing.

PSEP GRAIN SIZE ANALYSIS

Job No. N552 ARI Sample No. C Client Sample No. SB-SE03-A-051003

Set-up Date: 10.7.08 Sample Description: Clay, Shells

Calgon Batch # L86 Sieve Set # 2 Date Sieved: 10/9/08

SOLIDS CONTENT

Moisture Content	Initials BRZ	REDO
Container No.	119	C
Tare Weight	1.5237	1.5465
Wet Weight + Tare	33.2788	28.5963
Dry Weight + Tare	18.8170	14.9935

Test Sample	Initials BRZ
Container No.	119
Tare Weight	49.9935
Wet Weight + Tare	95.5998
Dry Weight + Tare	65.7452

SIEVE ANALYSIS

Initials JC

Sieve Size	Weight Retained
Tare	50.0163
4	50.0163
10	50.3855
18	50.8137
35	51.4092
60	54.502
120	59.6797
230	63.5863
PAN	0.1827

Salt Correction

Wt.	
Dry Sample	
orrection (x 50)	

PIPETTE ANALYSIS

Initials

10/14/2008

Temp:23

Tare ID	Tare Wt	Dry Wt & Tare	TIME
C-1	1.4962	1.6889	11:10:00
C-2	1.5083	1.6914	11:11:46
C-3	1.4984	1.6349	11:17:05
C-4	1.4944	1.6018	11:38:18
C-5	1.4941	1.5827	13:03:00
C-6	1.4937	1.5669	16:36:00
C-7	1.5227	1.5793	9:46:00

PSEP GRAIN SIZE ANALYSIS

Job No. 0352 ARI Sample No. E Client Sample No. EB-SE04 1-081003

Set-up Date: 10-7-08 Sample Description: Sandy Silty Clay, Shells

Calgon Batch # 186 Sieve Set # 1 Date Sieved: 10/9/08

SOLIDS CONTENT

Moisture Content	Initials AR
Container No.	201
Tare Weight	1.5024
Wet Weight + Tare	32.8429
Dry Weight + Tare	22.9743

Test Sample	Initials AR
Container No.	201
Tare Weight	50.1683
Wet Weight + Tare	103.4235
Dry Weight + Tare	80.5534

SIEVE ANALYSIS

Initials JL

Sieve Size	Weight Retained
Tare	50.3719
4	50.8128
10	53.2713
18	55.2538
35	59.5190
60	69.5730
120	76.2733
230	78.8074
PAN	1.4171

Salt Correction

Wt.	
Dry Sample	
Correction (x 50)	

PIPETTE ANALYSIS

Initials

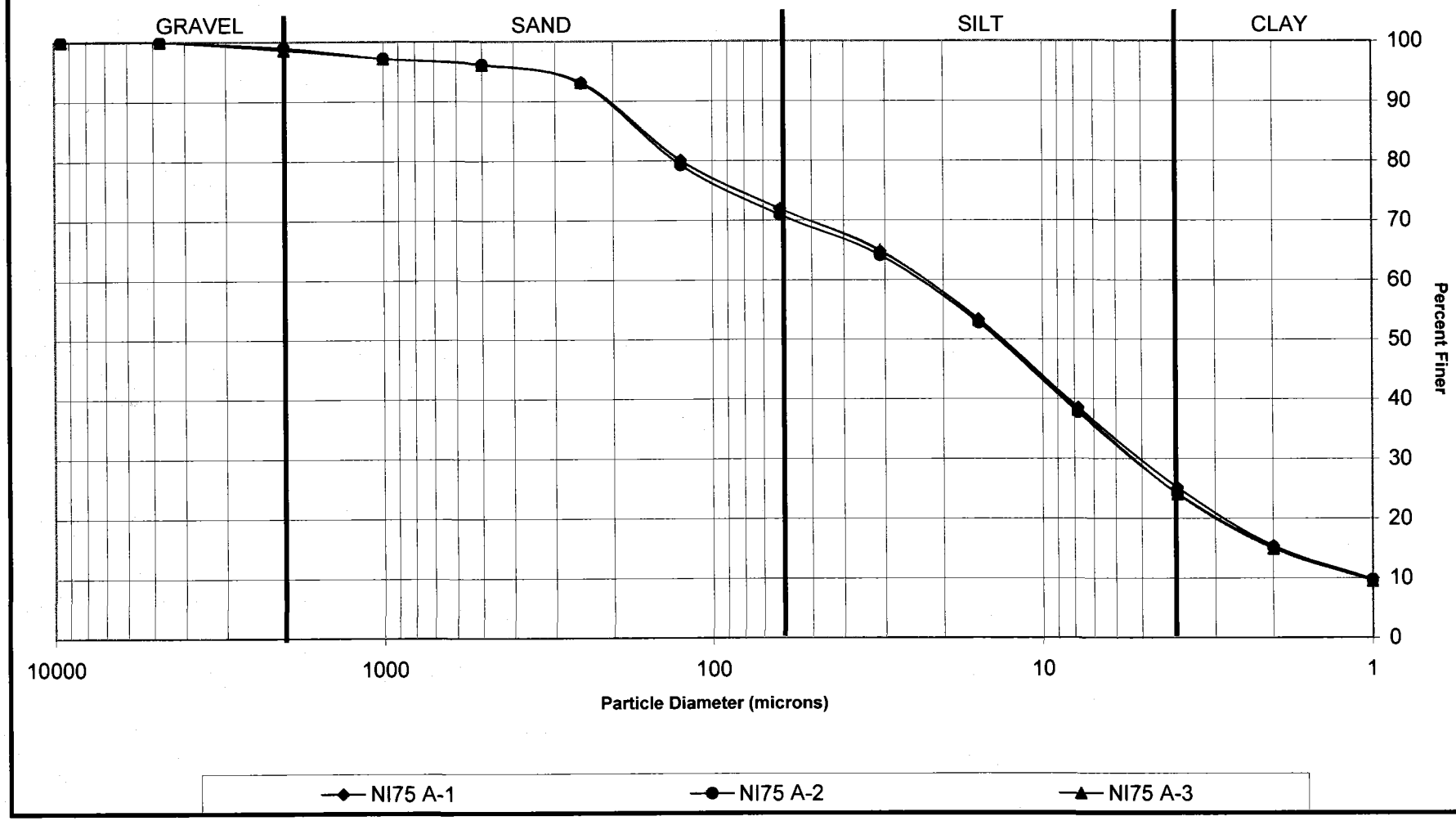
10/14/2008

Temp:23

Tare ID	Tare Wt	Dry Wt & Tare	TIME
E-1	1.4960	1.6652	11:14:00
E-2	1.4091	1.6348	11:14:20
E-3	1.5052	1.6039	11:15:46
E-4	1.4971	1.5745	11:21:05
E-5	1.4933	1.5557	11:42:18
E-6	1.4947	~~1.5500~~ 1.5373 (F3)	13:07:00
E-7	1.4916	1.5366	16:40:00
			9:50:00

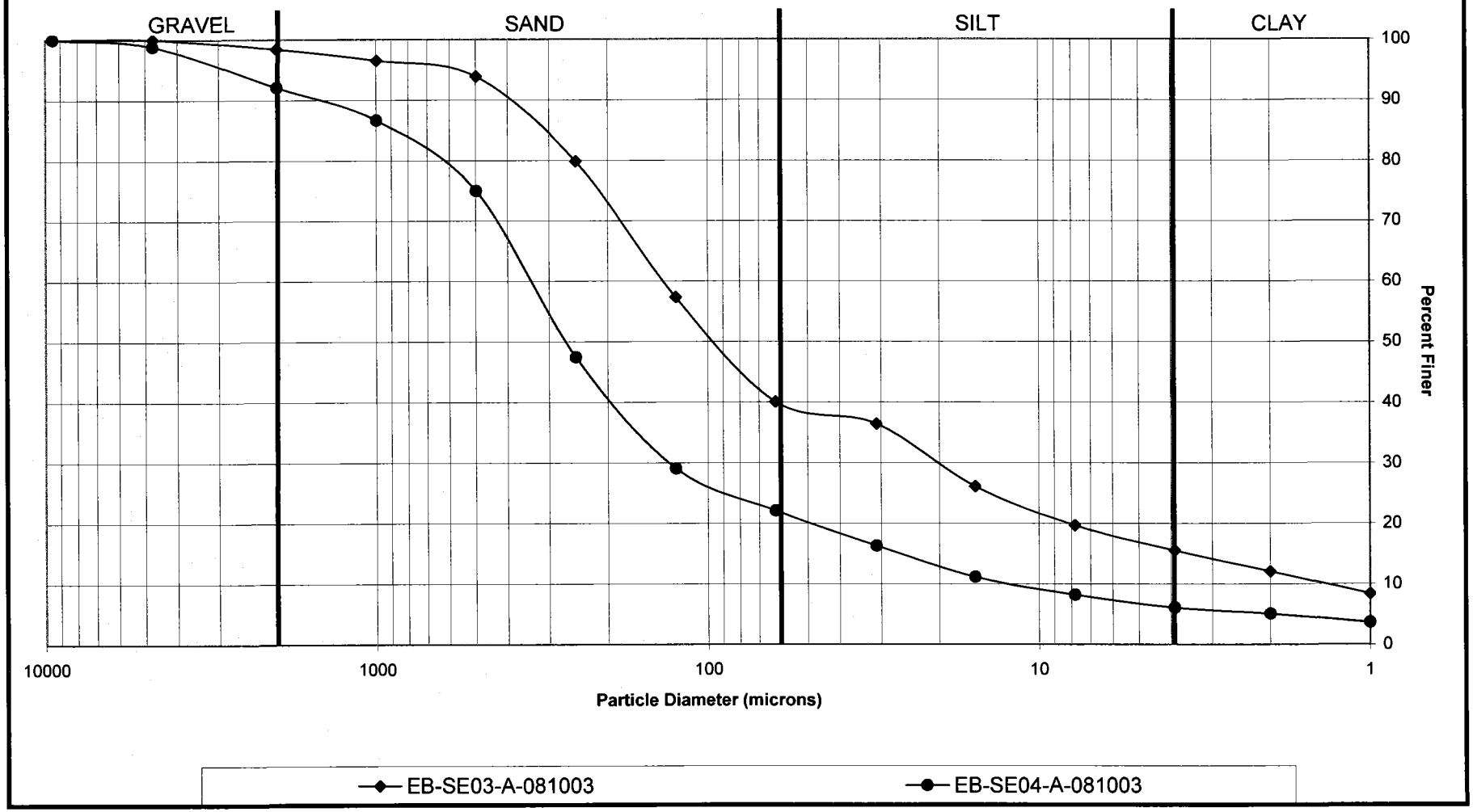
PSEP Grain Size Distribution

Triplicate Sample Plot



0643

PSEP Grain Size Distribution



Analytical Resources, Inc.

Pore Water Extraction

ARI Job No.: N552 Date: 10/6/08 Tested By: eg Analytes: _____

Aerobic ( )
Anaeorobic (✓)

Volume Required: _____

Filtered ( )
Filter Material: _____
Filter Size: _____

Centrifugation 1:	Speed:	3,000rpm	Temp:	4°C	Duration:	30min	O2 Level:	<1%
Centrifugation 2:	Speed:	7,000rpm	Temp:	4°C	Duration:	30min	O2 Level:	<1%

Centrifugation 1

ARI ID	Start Time	Estimated Recovery	Decant Time
A	11:39		12:21
B	11:39		12:24
C	12:17		13:12
E	12:17		13:15

Centrifugation 2

ARI ID	Start Time	Estimated Recovery	Decant Time
A	12:32		13:30
B	12:32		13:31
C	13:23		14:20
E	13:23		14:21

Notes:

0645

ANALYTICAL REPORT

Job Number: 580-11475-1

Job Description: Eddon Boatyard

For:
Analytical Resources, Inc
4611 South 134th Place, Suite 100
Tukwila, WA 98168

Attention: Sue Dunnihoo

Katie Downie
Project Manager II
katie.downie@testamericainc.com
10/09/2008

TestAmerica Tacoma is a part of TestAmerica Laboratories, Inc.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted in the case narrative.

Table of Contents

CASE NARRATIVE

Project: Eddon Boatyard
Report Number: 580-11475-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

SAMPLE RECEIPT
The samples were received on 10/06/2008; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.4 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

TOTAL METALS
Samples 580-11475-1 and 580-11475-2 were analyzed for total metals in accordance with EPA SW-846 method 6010B. The samples were prepared and analyzed on 10/07/2008.

Lead and zinc were detected in method blank MB 580-36738/9-A at levels that were above the method detection limit but below the reporting limit. The values are estimates, and have been flagged “J”. If the associated sample reported a result above the MDL, the result has been “B” flagged.

Lead failed the recovery criteria low for the matrix spike and matrix spike duplicate of sample 580-11475-1. Copper failed the recovery criteria high for the matrix spike duplicate. Copper was detected in the original sample at a level that was moe than four times the spike amount, and the normal control limits may not be appropriate.

Lead exceeded the duplicate RPD limit for the duplicate sample 580-11475-1. The sample appears to be nonhomogeneous.

No other difficulties were encountered during the total metals analyses.

All other quality control parameters were within the acceptance limits.

MERCURY
Samples 580-11475-1 and 580-11475-2 were analyzed for mercury in accordance with EPA SW-846 Method 7471A. The samples were prepared on 10/07/2008 and analyzed on 10/08/2008.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

METHOD SUMMARY

Client: Analytical Resources, Inc Job Number: 580-11475-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Metals (ICP)	TAL TAC	SW846 6010B	
Preparation, Metals	TAL TAC		SW846 3050B
Mercury (CVAA)	TAL TAC	SW846 7471A	
Preparation, Mercury	TAL TAC		SW846 7471A

Lab References:

TAL TAC = TestAmerica Tacoma

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: Analytical Resources, Inc

Job Number: 580-11475-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
580-11475-1	EB-SE03-A-081003	Solid	10/03/2008 0000	10/06/2008 1210
580-11475-2	EB-SE04-A-081003	Solid	10/03/2008 0000	10/06/2008 1210

Client: Analytical Resources, Inc

Job Number: 580-11475-1

Client Sample ID: EB-SE03-A-081003

Lab Sample ID:	580-11475-1	Date Sampled:	10/03/2008 0000
Client Matrix:	Solid % Moisture: 46.7	Date Received:	10/06/2008 1210

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 580-36770	Instrument ID:	SEA027	
Preparation:	3050B	Prep Batch: 580-36738	Lab File ID:	N/A	
Dilution:	1.0		Initial Weight/Volume:	1.2528	g
Date Analyzed:	10/07/2008 1457		Final Weight/Volume:	50	mL
Date Prepared:	10/07/2008 1119				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		6.9		0.19	4.5
Cadmium		1.1		0.12	0.75
Chromium		31		0.070	1.9
Copper		190		0.33	1.5
Lead		77	B	0.18	2.2
Silver		ND		0.067	1.5
Zinc		130	B	0.30	3.7

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-36789	Instrument ID:	SEA029	
Preparation:	7471A	Prep Batch: 580-36733	Lab File ID:	N/A	
Dilution:	1.0		Initial Weight/Volume:	0.5595	g
Date Analyzed:	10/08/2008 0952		Final Weight/Volume:	50	mL
Date Prepared:	10/07/2008 0955				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.47		0.010	0.034

Client: Analytical Resources, Inc

Job Number: 580-11475-1

Client Sample ID: EB-SE04-A-081003

Lab Sample ID: 580-11475-2
Client Matrix: Solid
% Moisture: 31.1
Date Sampled: 10/03/2008 0000
Date Received: 10/06/2008 1210

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 10/07/2008 1540
Date Prepared: 10/07/2008 1119
Analysis Batch: 580-36770
Prep Batch: 580-36738
Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1.0952 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		4.9		0.17	4.0
Cadmium		0.55	J	0.11	0.66
Chromium		19		0.062	1.7
Copper		40		0.29	1.3
Lead		16	B	0.16	2.0
Silver		ND		0.060	1.3
Zinc		41	B	0.27	3.3

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 10/08/2008 0955
Date Prepared: 10/07/2008 0955
Analysis Batch: 580-36789
Prep Batch: 580-36733
Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 0.5652 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.20		0.0077	0.026

General Chemistry

Client Sample ID: EB-SE03-A-081003

Lab Sample ID: 580-11475-1 Date Sampled: 10/03/2008 0000
Client Matrix: Solid Date Received: 10/06/2008 1210

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	53		%	0.10	0.10	1.0	PercentMoisture
Anly Batch: 580-36753	Date Analyzed		10/07/2008 1259				

Client Sample ID: EB-SE04-A-081003

Lab Sample ID: 580-11475-2 Date Sampled: 10/03/2008 0000
Client Matrix: Solid Date Received: 10/06/2008 1210

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	69		%	0.10	0.10	1.0	PercentMoisture
Anly Batch: 580-36753	Date Analyzed		10/07/2008 1259				

Client: Analytical Resources, Inc

Job Number: 580-11475-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 580-36733					
LCS 580-36733/25-A	Lab Control Spike	T	Solid	7471A	
LCSD 580-36733/26-A	Lab Control Spike Duplicate	T	Solid	7471A	
LCSSRM 580-36733/27-A	LCS-Standard Reference Material	T	Solid	7471A	
MB 580-36733/24-A	Method Blank	T	Solid	7471A	
580-11469-A-4-B DU	Duplicate	T	Solid	7471A	
580-11469-A-4-C MS	Matrix Spike	T	Solid	7471A	
580-11469-A-4-D MSD	Matrix Spike Duplicate	T	Solid	7471A	
580-11475-1	EB-SE03-A-081003	T	Solid	7471A	
580-11475-2	EB-SE04-A-081003	T	Solid	7471A	
Prep Batch: 580-36738					
LCS 580-36738/10-A	Lab Control Spike	T	Solid	3050B	
LCSD 580-36738/11-A	Lab Control Spike Duplicate	T	Solid	3050B	
LCSSRM 580-36738/12-A	LCS-Standard Reference Material	T	Solid	3050B	
MB 580-36738/9-A	Method Blank	T	Solid	3050B	
580-11475-1	EB-SE03-A-081003	T	Solid	3050B	
580-11475-1DU	Duplicate	T	Solid	3050B	
580-11475-1MS	Matrix Spike	T	Solid	3050B	
580-11475-1MSD	Matrix Spike Duplicate	T	Solid	3050B	
580-11475-2	EB-SE04-A-081003	T	Solid	3050B	
Analysis Batch:580-36770					
LCS 580-36738/10-A	Lab Control Spike	T	Solid	6010B	580-36738
LCSD 580-36738/11-A	Lab Control Spike Duplicate	T	Solid	6010B	580-36738
LCSSRM 580-36738/12-A	LCS-Standard Reference Material	T	Solid	6010B	580-36738
MB 580-36738/9-A	Method Blank	T	Solid	6010B	580-36738
580-11475-1	EB-SE03-A-081003	T	Solid	6010B	580-36738
580-11475-1DU	Duplicate	T	Solid	6010B	580-36738
580-11475-1MS	Matrix Spike	T	Solid	6010B	580-36738
580-11475-1MSD	Matrix Spike Duplicate	T	Solid	6010B	580-36738
580-11475-2	EB-SE04-A-081003	T	Solid	6010B	580-36738
Analysis Batch:580-36789					
LCS 580-36733/25-A	Lab Control Spike	T	Solid	7471A	580-36733
LCSD 580-36733/26-A	Lab Control Spike Duplicate	T	Solid	7471A	580-36733
LCSSRM 580-36733/27-A	LCS-Standard Reference Material	T	Solid	7471A	580-36733
MB 580-36733/24-A	Method Blank	T	Solid	7471A	580-36733
580-11469-A-4-B DU	Duplicate	T	Solid	7471A	580-36733
580-11469-A-4-C MS	Matrix Spike	T	Solid	7471A	580-36733
580-11469-A-4-D MSD	Matrix Spike Duplicate	T	Solid	7471A	580-36733
580-11475-1	EB-SE03-A-081003	T	Solid	7471A	580-36733
580-11475-2	EB-SE04-A-081003	T	Solid	7471A	580-36733

Client: Analytical Resources, Inc

Job Number: 580-11475-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Report Basis					
T = Total					
General Chemistry					
Analysis Batch:580-36753					
580-11475-1	EB-SE03-A-081003	T	Solid	PercentMoisture	
580-11475-2	EB-SE04-A-081003	T	Solid	PercentMoisture	
580-11478-A-14 MS	Matrix Spike	T	Solid	PercentMoisture	
580-11478-A-14 MSD	Matrix Spike Duplicate	T	Solid	PercentMoisture	

Report Basis
T = Total

Client: Analytical Resources, Inc

Job Number: 580-11475-1

Method Blank - Batch: 580-36738

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 580-36738/9-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/07/2008 1551
Date Prepared: 10/07/2008 1119

Analysis Batch: 580-36770
Prep Batch: 580-36738
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Arsenic	ND		0.13	3.0
Cadmium	ND		0.080	0.50
Chromium	ND		0.047	1.3
Copper	ND		0.22	1.0
Lead	0.55	J	0.12	1.5
Silver	ND		0.045	1.0
Zinc	0.74	J	0.20	2.5

LCS-Standard Reference Material - Batch:

Method: 6010B
Preparation: 3050B

Lab Sample ID: LCSSRM 580-36738/12-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/07/2008 1601
Date Prepared: 10/07/2008 1119

Analysis Batch: 580-36770
Prep Batch: 580-36738
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 0.4980 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	95.5	92.9	97	79.2 - 121.1	
Cadmium	63.0	64.4	102	81.2 - 118.8	
Chromium	99.0	104	105	80.1 - 119.5	
Copper	87.8	92.4	105	78.4 - 122.1	
Lead	92.4	93.1	101	81.5 - 118.0	
Silver	83.8	84.4	101	46.6 - 153.9	
Zinc	232	247	106	80.4 - 119.6	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Analytical Resources, Inc

Job Number: 580-11475-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 580-36738

Method: 6010B
Preparation: 3050B

LCS Lab Sample ID: LCS 580-36738/10-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/07/2008 1554
Date Prepared: 10/07/2008 1119

Analysis Batch: 580-36770
Prep Batch: 580-36738
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 580-36738/11-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/07/2008 1557
Date Prepared: 10/07/2008 1119

Analysis Batch: 580-36770
Prep Batch: 580-36738
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Arsenic	95	96	80 - 120	1	35		
Cadmium	96	97	80 - 120	1	35		
Chromium	96	97	80 - 120	1	35		
Copper	98	100	80 - 120	1	35		
Lead	98	100	80 - 120	2	35		
Silver	95	96	80 - 120	1	35		
Zinc	105	106	80 - 120	1	35		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-36738

Method: 6010B
Preparation: 3050B

LCS Lab Sample ID: LCS 580-36738/10-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/07/2008 1554
Date Prepared: 10/07/2008 1119

Units: mg/Kg

LCSD Lab Sample ID: LCSD 580-36738/11-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/07/2008 1557
Date Prepared: 10/07/2008 1119

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Arsenic	200	200	191	193
Cadmium	5.00	5.00	4.82	4.86
Chromium	20.0	20.0	19.2	19.4
Copper	25.0	25.0	24.6	24.9
Lead	50.0	50.0	49.1	50.0
Silver	30.0	30.0	28.6	28.9
Zinc	50.0	50.0	52.4	53.1

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Analytical Resources, Inc

Job Number: 580-11475-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-36738

Method: 6010B
Preparation: 3050B

MS Lab Sample ID: 580-11475-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/07/2008 1509
Date Prepared: 10/07/2008 1119

Analysis Batch: 580-36770
Prep Batch: 580-36738

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1.2671 g
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 580-11475-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/07/2008 1513
Date Prepared: 10/07/2008 1119

Analysis Batch: 580-36770
Prep Batch: 580-36738

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1.1292 g
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	98	100	75 - 125	13	35		
Cadmium	95	96	75 - 125	11	35		
Chromium	100	96	75 - 125	4	35		
Copper	101	141	75 - 125	9	35	4	4
Lead	63	65	75 - 125	6	35	F	F
Silver	100	101	75 - 125	13	35		
Zinc	102	103	75 - 125	5	35		

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 580-36738

Method: 6010B
Preparation: 3050B

MS Lab Sample ID: 580-11475-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/07/2008 1509
Date Prepared: 10/07/2008 1119

Units: mg/Kg

MSD Lab Sample ID: 580-11475-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/07/2008 1513
Date Prepared: 10/07/2008 1119

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Arsenic	6.9	296	332	297		340	
Cadmium	1.1	7.40	8.31	8.08		9.01	
Chromium	31	29.6	33.2	60.4		62.8	
Copper	190	37.0	41.5	225	4	246	4
Lead	77	74.0	83.1	124	F	131	F
Silver	ND	44.4	49.8	44.4		50.4	
Zinc	130	74.0	83.1	203		214	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Analytical Resources, Inc

Job Number: 580-11475-1

Duplicate - Batch: 580-36738

Method: 6010B
Preparation: 3050B

Lab Sample ID: 580-11475-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/07/2008 1501
Date Prepared: 10/07/2008 1119

Analysis Batch: 580-36770
Prep Batch: 580-36738
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1.1524 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Arsenic	6.9	7.15	4	35	
Cadmium	1.1	1.09	2	35	
Chromium	31	30.7	0	35	
Copper	190	184	2	35	
Lead	77	52.9	37	35	F
Silver	ND	ND	NC	35	
Zinc	130	129	0	35	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Analytical Resources, Inc

Job Number: 580-11475-1

Method Blank - Batch: 580-36733

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 580-36733/24-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2008 0759
Date Prepared: 10/07/2008 0955

Analysis Batch: 580-36789
Prep Batch: 580-36733
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 0.5 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Mercury	ND		0.0060	0.020

LCS-Standard Reference Material - Batch:

Method: 7471A
Preparation: 7471A

Lab Sample ID: LCSSRM 580-36733/27-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2008 0810
Date Prepared: 10/07/2008 0955

Analysis Batch: 580-36789
Prep Batch: 580-36733
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 0.0977 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	4.47	4.56	102	80 - 120	

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 580-36733

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 580-36733/25-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2008 0803
Date Prepared: 10/07/2008 0955

Analysis Batch: 580-36789
Prep Batch: 580-36733
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 0.5 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 580-36733/26-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2008 0807
Date Prepared: 10/07/2008 0955

Analysis Batch: 580-36789
Prep Batch: 580-36733
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 0.5 g
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qua
Mercury	100	100	75 - 125	1	25		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Analytical Resources, Inc

Job Number: 580-11475-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-36733

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 580-36733/25-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2008 0803
Date Prepared: 10/07/2008 0955

Units: mg/Kg

LCSD Lab Sample ID: LCSD 580-36733/26-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2008 0807
Date Prepared: 10/07/2008 0955

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Mercury	0.200	0.200	0.200	0.199

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-36733

Method: 7471A
Preparation: 7471A

MS Lab Sample ID: 580-11469-A-4-C MS
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2008 0839
Date Prepared: 10/07/2008 0955

Analysis Batch: 580-36789
Prep Batch: 580-36733

Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 0.5396 g
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 580-11469-A-4-D MSD
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2008 0843
Date Prepared: 10/07/2008 0955

Analysis Batch: 580-36789
Prep Batch: 580-36733

Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 0.5252 g
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	89	90	75 - 125	3	35		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Analytical Resources, Inc

Job Number: 580-11475-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 580-36733

Method: 7471A
Preparation: 7471A

MS Lab Sample ID: 580-11469-A-4-C MS
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2008 0839
Date Prepared: 10/07/2008 0955

Units: mg/Kg

MSD Lab Sample ID: 580-11469-A-4-D MS
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2008 0843
Date Prepared: 10/07/2008 0955

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	0.10	0.620	0.637	0.651	0.672

Duplicate - Batch: 580-36733

Method: 7471A
Preparation: 7471A

Lab Sample ID: 580-11469-A-4-B DU
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/08/2008 0835
Date Prepared: 10/07/2008 0955

Analysis Batch: 580-36789
Prep Batch: 580-36733
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: N/A
Initial Weight/Volume: 0.5443 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	0.10	0.155	43	35	

Calculations are performed before rounding to avoid round-off errors in calculated results.

DATA REPORTING QUALIFIERS

Client: Analytical Resources, Inc Job Number: 580-11475-1

Lab Section	Qualifier	Description
Metals		
	B	Compound was found in the blank and sample.
	F	Duplicate RPD exceeds the control limit
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

TOTAL METALS DATA PACKAGE

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 10/7/2008 1:52:18 PM
Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:04 PM,

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Lu 261.542	1398119.1	13046.27	0.93%	100.0	%
Sc 361.383	2764019.2	20915.28	0.76%	100.0	%
As 188.979†	-3.4	1.13	33.08%	[0.00]	mg/L
Ba 233.527†	69.2	3.69	5.33%	[0.00]	mg/L
Cd 226.502†	37.9	0.29	0.77%	[0.00]	mg/L
Cr 267.716†	60.6	17.07	28.15%	[0.00]	mg/L
Pb 220.353†	25.8	10.61	41.20%	[0.00]	mg/L
Se 196.026†	11.8	3.07	26.10%	[0.00]	mg/L
Ag 328.068†	260.8	38.45	14.74%	[0.00]	mg/L
Cu 327.393†	-929.9	67.03	7.21%	[0.00]	mg/L
Ni 231.604†	128.3	2.87	2.23%	[0.00]	mg/L
Zn 206.200†	3.4	1.51	44.95%	[0.00]	mg/L

Sequence No.: 2
Sample ID: Low Standard
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 10/7/2008 1:55:13 PM
Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:04 PM,

Mean Data: Low Standard

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Lu 261.542	1364394.9	35839.71	2.63%	97.59	%
Sc 361.383	2698703.4	74290.37	2.75%	97.64	%
As 188.979†	1116.6	26.32	2.36%	[1.00]	mg/L
Ba 233.527†	19194.8	355.92	1.85%	[0.50]	mg/L
Cd 226.502†	16250.9	308.26	1.90%	[0.20]	mg/L
Cr 267.716†	17940.8	284.36	1.58%	[0.20]	mg/L
Pb 220.353†	3021.9	65.12	2.16%	[0.50]	mg/L
Se 196.026†	783.0	18.70	2.39%	[1.00]	mg/L
Ag 328.068†	32079.1	656.57	2.05%	[0.200]	mg/L
Cu 327.393†	20842.9	415.33	1.99%	[0.20]	mg/L
Ni 231.604†	6945.7	124.59	1.79%	[0.20]	mg/L
Zn 206.200†	4545.8	95.88	2.11%	[0.20]	mg/L

Sequence No.: 3
Sample ID: Medium Standard
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 10/7/2008 1:59:09 PM
Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:04 PM,

Mean Data: Medium Standard

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Lu 261.542	1373471.1	7589.07	0.55%	98.24	%
Sc 361.383	2718938.2	15932.71	0.59%	98.37	%
As 188.979†	5658.6	32.00	0.57%	[5.00]	mg/L
Ba 233.527†	97676.7	3397.57	3.48%	[2.50]	mg/L
Cd 226.502†	80251.5	2972.89	3.70%	[1.00]	mg/L
Cr 267.716†	88824.0	3266.10	3.68%	[1.00]	mg/L
Pb 220.353†	15373.9	631.74	4.11%	[2.50]	mg/L
Se 196.026†	3957.9	27.45	0.69%	[5.00]	mg/L
Ag 328.068†	165915.2	6357.05	3.83%	[1.00]	mg/L
Cu 327.393†	105934.0	4053.41	3.83%	[1.00]	mg/L
Ni 231.604†	34068.7	1284.58	3.77%	[1.00]	mg/L

Zn 206.200†	22416.6	804.49	3.59%	[1.00] mg/L

Sequence No.: 4
Sample ID: High Standard
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 10/7/2008 2:03:28 PM

Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:05 PM,

Mean Data: High Standard

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Lu 261.542	1387757.2	16313.73	1.18%	99.26	%
Sc 361.383	2762166.5	36017.60	1.30%	99.93	%
As 188.979†	10889.2	134.58	1.24%	[10.00]	mg/L
Ba 233.527†	186311.0	1919.07	1.03%	[5.00]	mg/L
Cd 226.502†	152939.4	1417.96	0.93%	[2.00]	mg/L
Cr 267.716†	169836.3	1568.73	0.92%	[2.00]	mg/L
Pb 220.353†	29209.6	332.63	1.14%	[5.00]	mg/L
Se 196.026†	7597.4	95.23	1.25%	[10.0]	mg/L
Ag 328.068†	320917.4	3283.98	1.02%	[2.00]	mg/L
Cu 327.393†	206498.3	1903.61	0.92%	[2.00]	mg/L
Ni 231.604†	64956.1	680.58	1.05%	[2.00]	mg/L
Zn 206.200†	42640.8	393.77	0.92%	[2.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
As 188.979	3	Lin Thru 0	0.0	1098	0.00000	0.999878	
Ba 233.527	3	Lin Thru 0	0.0	37630	0.00000	0.999815	
Cd 226.502	3	Lin Thru 0	0.0	77260	0.00000	0.999799	
Cr 267.716	3	Lin Thru 0	0.0	85730	0.00000	0.999827	
Pb 220.353	3	Lin Thru 0	0.0	5905	0.00000	0.999782	
Se 196.026	3	Lin Thru 0	0.0	766.2	0.00000	0.999861	
Ag 328.068	3	Lin Thru 0	0.0	161500	0.00000	0.999909	
Cu 327.393	3	Lin Thru 0	0.0	103800	0.00000	0.999947	
Ni 231.604	3	Lin Thru 0	0.0	32810	0.00000	0.999800	
Zn 206.200	3	Lin Thru 0	0.0	21550	0.00000	0.999783	

Sequence No.: 5
Sample ID: ICV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 10/7/2008 2:17:01 PM

Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:06 PM,

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Lu 261.542	1400956.6	100.2	%	2.16				2.15%
Sc 361.383	2771582.3	100.3	%	2.21				2.20%
As 188.979†	5431.8	4.949	mg/L	0.1182	4.949	mg/L	0.1182	2.39%
QC value within limits for As 188.979 Recovery = 98.97%								
Ba 233.527†	18719.1	0.4975	mg/L	0.01216	0.4975	mg/L	0.01216	2.45%
QC value within limits for Ba 233.527 Recovery = 99.49%								
Cd 226.502†	39524.7	0.5116	mg/L	0.00612	0.5116	mg/L	0.00612	1.20%
QC value within limits for Cd 226.502 Recovery = 102.32%								
Cr 267.716†	172885.9	2.017	mg/L	0.0247	2.017	mg/L	0.0247	1.22%
QC value within limits for Cr 267.716 Recovery = 100.83%								
Pb 220.353†	11806.9	2.000	mg/L	0.0524	2.000	mg/L	0.0524	2.62%
QC value within limits for Pb 220.353 Recovery = 99.98%								
Se 196.026†	7675.4	10.02	mg/L	0.253	10.02	mg/L	0.253	2.53%
QC value within limits for Se 196.026 Recovery = 100.17%								
Ag 328.068†	164819.4	1.020	mg/L	0.0111	1.020	mg/L	0.0111	1.09%
QC value within limits for Ag 328.068 Recovery = 102.03%								
Cu 327.393†	213445.1	2.057	mg/L	0.0234	2.057	mg/L	0.0234	1.14%
QC value within limits for Cu 327.393 Recovery = 102.83%								
Ni 231.604†	68873.1	2.099	mg/L	0.0201	2.099	mg/L	0.0201	0.96%

QC value within limits for Ni 231.604 Recovery = 104.95%

Zn 206.200†	32702.3	1.518 mg/L	0.0186	1.518 mg/L	0.0186	1.23%

QC value within limits for Zn 206.200 Recovery = 101.17%

All analytes passed QC.

Sequence No.: 6
Sample ID: ICB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 10/7/2008 2:20:57 PM

Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:06 PM,

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Lu 261.542	1371207.7	98.08	%	0.675				0.69%
Sc 361.383	2710356.9	98.06	%	0.599				0.61%
As 188.979†	1.7	0.0016	mg/L	0.00248	0.0016	mg/L	0.00248	158.45%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	-7.1	-0.0002	mg/L	0.00002	-0.0002	mg/L	0.00002	10.20%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 226.502†	-4.1	-0.0001	mg/L	0.00005	-0.0001	mg/L	0.00005	97.95%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Cr 267.716†	192.4	0.0022	mg/L	0.00025	0.0022	mg/L	0.00025	11.29%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Pb 220.353†	5.7	0.0010	mg/L	0.00117	0.0010	mg/L	0.00117	121.25%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Se 196.026†	0.8	0.0011	mg/L	0.00352	0.0011	mg/L	0.00352	334.41%
QC value within limits for Se 196.026 Recovery = Not calculated								
Ag 328.068†	-12.9	-0.0001	mg/L	0.00021	-0.0001	mg/L	0.00021	256.54%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Cu 327.393†	14.7	0.0001	mg/L	0.00067	0.0001	mg/L	0.00067	474.64%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Ni 231.604†	24.3	0.0007	mg/L	0.00007	0.0007	mg/L	0.00007	8.86%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Zn 206.200†	126.8	0.0059	mg/L	0.00070	0.0059	mg/L	0.00070	11.87%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analytes passed QC.

Sequence No.: 7
Sample ID: RL-STD
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 10/7/2008 2:23:51 PM

Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:06 PM,

Mean Data: RL-STD

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Lu 261.542	1402592.8	100.3	%	1.46				1.45%
Sc 361.383	2769598.0	100.2	%	1.76				1.75%
As 188.979†	65.4	0.0596	mg/L	0.00155	0.0596	mg/L	0.00155	2.60%
QC value within limits for As 188.979 Recovery = 99.26%								
Ba 233.527†	384.2	0.0102	mg/L	0.00021	0.0102	mg/L	0.00021	2.08%
QC value within limits for Ba 233.527 Recovery = 102.09%								
Cd 226.502†	804.0	0.0104	mg/L	0.00016	0.0104	mg/L	0.00016	1.57%
QC value within limits for Cd 226.502 Recovery = 104.07%								
Cr 267.716†	2271.9	0.0265	mg/L	0.00013	0.0265	mg/L	0.00013	0.51%
QC value within limits for Cr 267.716 Recovery = 106.00%								
Pb 220.353†	164.3	0.0278	mg/L	0.00234	0.0278	mg/L	0.00234	8.41%
QC value within limits for Pb 220.353 Recovery = 92.76%								
Se 196.026†	82.9	0.1082	mg/L	0.00192	0.1082	mg/L	0.00192	1.78%
QC value within limits for Se 196.026 Recovery = 108.22%								
Ag 328.068†	1662.2	0.0103	mg/L	0.00055	0.0103	mg/L	0.00055	5.33%
QC value within limits for Ag 328.068 Recovery = 51.45%								
Cu 327.393†	2051.2	0.0198	mg/L	0.00169	0.0198	mg/L	0.00169	8.54%
QC value within limits for Cu 327.393 Recovery = 98.82%								
Ni 231.604†	674.9	0.0206	mg/L	0.00050	0.0206	mg/L	0.00050	2.41%
QC value within limits for Ni 231.604 Recovery = 102.85%								

Zn 206.200†	1043.4	0.0484 mg/L	0.00096	0.0484 mg/L	0.00096	1.98%
QC value within limits for Zn 206.200 Recovery = 121.04%						

All analytes passed QC.

Sequence No.: 8
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 10/7/2008 2:33:42 PM
Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:07 PM,

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Lu 261.542	1303547.4	93.24	%	2.640				2.83%
Sc 361.383	2603404.3	94.19	%	2.655				2.82%
As 188.979†	8.1	0.0074	mg/L	0.00428	0.0074	mg/L	0.00428	57.99%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	-10.9	-0.0003	mg/L	0.00004	-0.0003	mg/L	0.00004	14.99%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 226.502†	309.5	0.0040	mg/L	0.00020	0.0040	mg/L	0.00020	4.94%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Cr 267.716†	-390.4	-0.0046	mg/L	0.00015	-0.0046	mg/L	0.00015	3.40%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Pb 220.353†	84.1	0.0142	mg/L	0.00138	0.0142	mg/L	0.00138	9.66%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Se 196.026†	-36.3	-0.0474	mg/L	0.00544	-0.0474	mg/L	0.00544	11.47%
QC value within limits for Se 196.026 Recovery = Not calculated								
Ag 328.068†	241.6	0.0015	mg/L	0.00039	0.0015	mg/L	0.00039	25.95%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Cu 327.393†	1286.4	0.0124	mg/L	0.00015	0.0124	mg/L	0.00015	1.25%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Ni 231.604†	-80.5	-0.0025	mg/L	0.00025	-0.0025	mg/L	0.00025	10.31%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Zn 206.200†	-106.4	-0.0049	mg/L	0.00156	-0.0049	mg/L	0.00156	31.63%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analytes passed QC.

Sequence No.: 9
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 10/7/2008 2:36:38 PM
Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:08 PM,

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Lu 261.542	1285431.1	91.94	%	2.132				2.32%
Sc 361.383	2546984.4	92.15	%	2.187				2.37%
As 188.979†	11215.2	10.22	mg/L	0.270	10.22	mg/L	0.270	2.64%
QC value within limits for As 188.979 Recovery = 102.18%								
Ba 233.527†	113604.4	3.019	mg/L	0.1157	3.019	mg/L	0.1157	3.83%
QC value within limits for Ba 233.527 Recovery = 100.63%								
Cd 226.502†	227579.4	2.946	mg/L	0.1165	2.946	mg/L	0.1165	3.95%
QC value within limits for Cd 226.502 Recovery = 98.19%								
Cr 267.716†	263276.6	3.071	mg/L	0.1199	3.071	mg/L	0.1199	3.90%
QC value within limits for Cr 267.716 Recovery = 102.37%								
Pb 220.353†	57356.0	9.714	mg/L	0.4061	9.714	mg/L	0.4061	4.18%
QC value within limits for Pb 220.353 Recovery = 97.14%								
Se 196.026†	3764.4	4.913	mg/L	0.1400	4.913	mg/L	0.1400	2.85%
QC value within limits for Se 196.026 Recovery = 98.26%								
Ag 328.068†	467116.8	2.892	mg/L	0.1191	2.892	mg/L	0.1191	4.12%
QC value within limits for Ag 328.068 Recovery = 96.39%								
Cu 327.393†	342579.1	3.301	mg/L	0.1471	3.301	mg/L	0.1471	4.46%
QC value within limits for Cu 327.393 Recovery = 110.02%								
Ni 231.604†	95033.1	2.896	mg/L	0.1205	2.896	mg/L	0.1205	4.16%
QC value within limits for Ni 231.604 Recovery = 96.54%								
Zn 206.200†	59104.4	2.743	mg/L	0.1202	2.743	mg/L	0.1202	4.38%

QC value within limits for Zn 206.200 Recovery = 91.43%
All analytes passed QC.

Sequence No.: 10
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 10/7/2008 2:43:29 PM

Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:08 PM,

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Lu 261.542	1393328.1	99.66	%	2.320				2.33%
Sc 361.383	2752539.9	99.58	%	2.384				2.39%
As 188.979†	5606.6	5.108	mg/L	0.1223	5.108	mg/L	0.1223	2.39%
QC value within limits for As 188.979 Recovery = 102.16%								
Ba 233.527†	97187.4	2.583	mg/L	0.1449	2.583	mg/L	0.1449	5.61%
QC value within limits for Ba 233.527 Recovery = 103.31%								
Cd 226.502†	79743.2	1.032	mg/L	0.0566	1.032	mg/L	0.0566	5.49%
QC value within limits for Cd 226.502 Recovery = 103.22%								
Cr 267.716†	88122.8	1.028	mg/L	0.0583	1.028	mg/L	0.0583	5.67%
QC value within limits for Cr 267.716 Recovery = 102.79%								
Pb 220.353†	15338.7	2.598	mg/L	0.1479	2.598	mg/L	0.1479	5.69%
QC value within limits for Pb 220.353 Recovery = 103.91%								
Se 196.026†	3928.3	5.127	mg/L	0.1139	5.127	mg/L	0.1139	2.22%
QC value within limits for Se 196.026 Recovery = 102.53%								
Ag 328.068†	165063.3	1.022	mg/L	0.0593	1.022	mg/L	0.0593	5.80%
QC value within limits for Ag 328.068 Recovery = 102.18%								
Cu 327.393†	106504.4	1.026	mg/L	0.0571	1.026	mg/L	0.0571	5.57%
QC value within limits for Cu 327.393 Recovery = 102.62%								
Ni 231.604†	34016.7	1.037	mg/L	0.0572	1.037	mg/L	0.0572	5.52%
QC value within limits for Ni 231.604 Recovery = 103.67%								
Zn 206.200†	22731.5	1.055	mg/L	0.0575	1.055	mg/L	0.0575	5.45%
QC value within limits for Zn 206.200 Recovery = 105.49%								

All analytes passed QC.

Sequence No.: 11
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 10/7/2008 2:47:27 PM

Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:08 PM,

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Lu 261.542	1362728.9	97.47	%	0.220				0.23%
Sc 361.383	2686051.2	97.18	%	0.701				0.72%
As 188.979†	-0.9	-0.0008	mg/L	0.00183	-0.0008	mg/L	0.00183	225.56%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	-6.9	-0.0002	mg/L	0.00004	-0.0002	mg/L	0.00004	23.55%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 226.502†	18.0	0.0002	mg/L	0.00008	0.0002	mg/L	0.00008	33.60%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Cr 267.716†	126.9	0.0015	mg/L	0.00033	0.0015	mg/L	0.00033	22.18%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Pb 220.353†	20.3	0.0034	mg/L	0.00049	0.0034	mg/L	0.00049	14.25%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Se 196.026†	-0.9	-0.0012	mg/L	0.00701	-0.0012	mg/L	0.00701	590.45%
QC value within limits for Se 196.026 Recovery = Not calculated								
Ag 328.068†	-68.5	-0.0004	mg/L	0.00068	-0.0004	mg/L	0.00068	160.99%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Cu 327.393†	793.4	0.0076	mg/L	0.00198	0.0076	mg/L	0.00198	25.93%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Ni 231.604†	120.6	0.0037	mg/L	0.00037	0.0037	mg/L	0.00037	10.00%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Zn 206.200†	343.2	0.0159	mg/L	0.00124	0.0159	mg/L	0.00124	7.77%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analytes passed QC.

Sequence No.: 12
Sample ID: MB 580-36738/9-A
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 26
Date Collected: 10/7/2008 2:50:20 PM
Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:09 PM,

Mean Data: MB 580-36738/9-A

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Lu 261.542	1336955.5	95.63	%	2.050				2.14%
Sc 361.383	2654491.0	96.04	%	2.040				2.12%
As 188.979†	-0.9	-0.0008	mg/L	0.00163	-0.0008	mg/L	0.00163	198.62%
Ba 233.527†	0.5	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	340.00%
Cd 226.502†	12.1	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	32.76%
Cr 267.716†	560.3	0.0065	mg/L	0.00071	0.0065	mg/L	0.00071	10.90%
Pb 220.353†	26.1	0.0044	mg/L	0.00318	0.0044	mg/L	0.00318	71.78%
Se 196.026†	7.5	0.0097	mg/L	0.00273	0.0097	mg/L	0.00273	28.04%
Ag 328.068†	-40.4	-0.0003	mg/L	0.00009	-0.0003	mg/L	0.00009	34.87%
Cu 327.393†	1862.4	0.0179	mg/L	0.00198	0.0179	mg/L	0.00198	11.02%
Ni 231.604†	164.1	0.0050	mg/L	0.00025	0.0050	mg/L	0.00025	4.93%
Zn 206.200†	384.1	0.0178	mg/L	0.00130	0.0178	mg/L	0.00130	7.30%

Sequence No.: 13
Sample ID: 580-11475-A-1-B 1/5
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 27
Date Collected: 10/7/2008 2:53:16 PM
Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:10 PM,

Mean Data: 580-11475-A-1-B 1/5

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Lu 261.542	1465108.5	104.8	%	1.55				1.48%
Sc 361.383	2905739.4	105.1	%	1.32				1.26%
As 188.979†	18.6	0.0170	mg/L	0.00108	0.0170	mg/L	0.00108	6.38%
Ba 233.527†	2579.3	0.0685	mg/L	0.00117	0.0685	mg/L	0.00117	1.71%
Cd 226.502†	219.7	0.0028	mg/L	0.00010	0.0028	mg/L	0.00010	3.64%
Cr 267.716†	7359.2	0.0858	mg/L	0.00038	0.0858	mg/L	0.00038	0.44%
Pb 220.353†	1302.0	0.2205	mg/L	0.00298	0.2205	mg/L	0.00298	1.35%
Se 196.026†	-3.5	-0.0046	mg/L	0.00255	-0.0046	mg/L	0.00255	55.65%
Ag 328.068†	-34.3	-0.0002	mg/L	0.00087	-0.0002	mg/L	0.00087	408.88%
Cu 327.393†	51488.1	0.4961	mg/L	0.00249	0.4961	mg/L	0.00249	0.50%
Ni 231.604†	2429.3	0.0740	mg/L	0.00110	0.0740	mg/L	0.00110	1.49%
Zn 206.200†	7946.1	0.3687	mg/L	0.00117	0.3687	mg/L	0.00117	0.32%

Sequence No.: 14
Sample ID: 580-11475-A-1-B
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 28
Date Collected: 10/7/2008 2:57:13 PM
Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:10 PM,

Mean Data: 580-11475-A-1-B

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Lu 261.542	1427976.1	102.1	%	1.67				1.64%
Sc 361.383	2895532.0	104.8	%	2.12				2.02%
As 188.979†	100.7	0.0918	mg/L	0.00400	0.0918	mg/L	0.00400	4.36%
Ba 233.527†	12368.7	0.3287	mg/L	0.00557	0.3287	mg/L	0.00557	1.69%
Cd 226.502†	1101.2	0.0143	mg/L	0.00029	0.0143	mg/L	0.00029	2.07%
Cr 267.716†	35245.7	0.4111	mg/L	0.01335	0.4111	mg/L	0.01335	3.25%
Pb 220.353†	6058.7	1.026	mg/L	0.0193	1.026	mg/L	0.0193	1.88%
Se 196.026†	-11.5	-0.0151	mg/L	0.00239	-0.0151	mg/L	0.00239	15.90%
Ag 328.068†	126.2	0.0008	mg/L	0.00045	0.0008	mg/L	0.00045	57.62%
Cu 327.393†	260342.8	2.508	mg/L	0.0815	2.508	mg/L	0.0815	3.25%

Ni 231.604†	11232.1	0.3423 mg/L	0.00636	0.3423 mg/L	0.00636	1.86%
Zn 206.200†	36873.3	1.711 mg/L	0.0518	1.711 mg/L	0.0518	3.02%

Sequence No.: 15
Sample ID: 580-11475-A-1-C DU
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 29
Date Collected: 10/7/2008 3:01:09 PM
Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:11 PM,

Mean Data: 580-11475-A-1-C DU

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Lu 261.542	1388497.1	99.31	%	0.608				0.61%
Sc 361.383	2794312.1	101.1	%	0.58				0.58%
As 188.979†	96.4	0.0878	mg/L	0.00355	0.0878	mg/L	0.00355	4.05%
Ba 233.527†	11968.4	0.3181	mg/L	0.00311	0.3181	mg/L	0.00311	0.98%
Cd 226.502†	1036.3	0.0134	mg/L	0.00028	0.0134	mg/L	0.00028	2.12%
Cr 267.716†	32341.0	0.3772	mg/L	0.01300	0.3772	mg/L	0.01300	3.45%
Pb 220.353†	3834.3	0.6494	mg/L	0.00948	0.6494	mg/L	0.00948	1.46%
Se 196.026†	-9.9	-0.0129	mg/L	0.00461	-0.0129	mg/L	0.00461	35.86%
Ag 328.068†	-74.6	-0.0005	mg/L	0.00095	-0.0005	mg/L	0.00095	205.86%
Cu 327.393†	233964.2	2.254	mg/L	0.0825	2.254	mg/L	0.0825	3.66%
Ni 231.604†	10393.9	0.3168	mg/L	0.00336	0.3168	mg/L	0.00336	1.06%
Zn 206.200†	34032.2	1.579	mg/L	0.0518	1.579	mg/L	0.0518	3.28%

Sequence No.: 16
Sample ID: 580-11475-A-1-D DU
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 30
Date Collected: 10/7/2008 3:05:06 PM
Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:11 PM,

Mean Data: 580-11475-A-1-D DU

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Lu 261.542	1421968.7	101.7	%	0.68				0.67%
Sc 361.383	2864441.2	103.6	%	0.67				0.64%
As 188.979†	96.2	0.0877	mg/L	0.00186	0.0877	mg/L	0.00186	2.13%
Ba 233.527†	11948.2	0.3175	mg/L	0.00070	0.3175	mg/L	0.00070	0.22%
Cd 226.502†	1030.2	0.0133	mg/L	0.00007	0.0133	mg/L	0.00007	0.56%
Cr 267.716†	30775.1	0.3590	mg/L	0.01141	0.3590	mg/L	0.01141	3.18%
Pb 220.353†	3919.4	0.6638	mg/L	0.00328	0.6638	mg/L	0.00328	0.49%
Se 196.026†	-4.1	-0.0053	mg/L	0.00555	-0.0053	mg/L	0.00555	103.98%
Ag 328.068†	46.2	0.0003	mg/L	0.00057	0.0003	mg/L	0.00057	199.09%
Cu 327.393†	225792.0	2.175	mg/L	0.0758	2.175	mg/L	0.0758	3.48%
Ni 231.604†	9998.1	0.3047	mg/L	0.00105	0.3047	mg/L	0.00105	0.35%
Zn 206.200†	33614.0	1.560	mg/L	0.0476	1.560	mg/L	0.0476	3.05%

Sequence No.: 17
Sample ID: 580-11475-A-1-E MS
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 31
Date Collected: 10/7/2008 3:09:02 PM
Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:11 PM,

Mean Data: 580-11475-A-1-E MS

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Lu 261.542	1421932.0	101.7	%	1.17				1.15%
Sc 361.383	2876543.3	104.1	%	1.26				1.21%
As 188.979†	4403.7	4.012	mg/L	0.0586	4.012	mg/L	0.0586	1.46%
Ba 233.527†	161322.0	4.287	mg/L	0.1299	4.287	mg/L	0.1299	3.03%
Cd 226.502†	8428.2	0.1091	mg/L	0.00161	0.1091	mg/L	0.00161	1.47%
Cr 267.716†	69972.1	0.8162	mg/L	0.02590	0.8162	mg/L	0.02590	3.17%
Pb 220.353†	9860.4	1.670	mg/L	0.0244	1.670	mg/L	0.0244	1.46%
Se 196.026†	2801.8	3.656	mg/L	0.0435	3.656	mg/L	0.0435	1.19%
Ag 328.068†	96949.9	0.6002	mg/L	0.01854	0.6002	mg/L	0.01854	3.09%

Cu 327.393†	315516.2	3.040 mg/L	0.0988	3.040 mg/L	0.0988	3.25%
Ni 231.604†	44587.8	1.359 mg/L	0.0419	1.359 mg/L	0.0419	3.08%
Zn 206.200†	59176.5	2.746 mg/L	0.0871	2.746 mg/L	0.0871	3.17%

Sequence No.: 18
Sample ID: 580-11475-A-1-F MSD
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 32
Date Collected: 10/7/2008 3:13:04 PM

Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:12 PM,

Mean Data: 580-11475-A-1-F MSD

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Lu 261.542	1403746.7	100.4	%	1.53				1.52%
Sc 361.383	2826409.9	102.3	%	1.67				1.63%
As 188.979†	4488.8	4.090	mg/L	0.0399	4.090	mg/L	0.0399	0.98%
Ba 233.527†	162670.1	4.323	mg/L	0.1021	4.323	mg/L	0.1021	2.36%
Cd 226.502†	8380.9	0.1085	mg/L	0.00124	0.1085	mg/L	0.00124	1.15%
Cr 267.716†	64842.9	0.7564	mg/L	0.01702	0.7564	mg/L	0.01702	2.25%
Pb 220.353†	9285.9	1.573	mg/L	0.0174	1.573	mg/L	0.0174	1.11%
Se 196.026†	2865.0	3.739	mg/L	0.0444	3.739	mg/L	0.0444	1.19%
Ag 328.068†	97954.1	0.6064	mg/L	0.01321	0.6064	mg/L	0.01321	2.18%
Cu 327.393†	307854.4	2.966	mg/L	0.0696	2.966	mg/L	0.0696	2.35%
Ni 231.604†	42897.2	1.307	mg/L	0.0331	1.307	mg/L	0.0331	2.53%
Zn 206.200†	55490.9	2.575	mg/L	0.0618	2.575	mg/L	0.0618	2.40%

Sequence No.: 19
Sample ID: 580-11475-A-1-B pds
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 33
Date Collected: 10/7/2008 3:16:22 PM

Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:12 PM,

Mean Data: 580-11475-A-1-B pds

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Lu 261.542	1418158.2	101.4	%	1.12				1.10%
Sc 361.383	2849116.2	103.1	%	1.07				1.04%
As 188.979†	4825.0	4.396	mg/L	0.0592	4.396	mg/L	0.0592	1.35%
Ba 233.527†	173349.9	4.607	mg/L	0.1707	4.607	mg/L	0.1707	3.71%
Cd 226.502†	9035.6	0.1170	mg/L	0.00139	0.1170	mg/L	0.00139	1.19%
Cr 267.716†	68089.4	0.7942	mg/L	0.02983	0.7942	mg/L	0.02983	3.76%
Pb 220.353†	11623.1	1.968	mg/L	0.0266	1.968	mg/L	0.0266	1.35%
Se 196.026†	3099.0	4.044	mg/L	0.0626	4.044	mg/L	0.0626	1.55%
Ag 328.068†	94122.4	0.5827	mg/L	0.02311	0.5827	mg/L	0.02311	3.97%
Cu 327.393†	297359.7	2.865	mg/L	0.1122	2.865	mg/L	0.1122	3.91%
Ni 231.604†	46514.1	1.418	mg/L	0.0512	1.418	mg/L	0.0512	3.61%
Zn 206.200†	57649.2	2.675	mg/L	0.0928	2.675	mg/L	0.0928	3.47%

Sequence No.: 20
Sample ID: LCS 580-36738/10-A
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 34
Date Collected: 10/7/2008 3:19:16 PM

Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:14 PM,

Mean Data: LCS 580-36738/10-A

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Lu 261.542	1413361.6	101.1	%	2.98				2.95%
Sc 361.383	2782088.3	100.7	%	3.04				3.02%
As 188.979†	4247.7	3.870	mg/L	0.1264	3.870	mg/L	0.1264	3.27%
Ba 233.527†	152720.9	4.058	mg/L	0.1769	4.058	mg/L	0.1769	4.36%
Cd 226.502†	7639.5	0.0989	mg/L	0.00425	0.0989	mg/L	0.00425	4.30%
Cr 267.716†	33967.9	0.3962	mg/L	0.01874	0.3962	mg/L	0.01874	4.73%
Pb 220.353†	5967.5	1.011	mg/L	0.0396	1.011	mg/L	0.0396	3.92%
Se 196.026†	2780.0	3.628	mg/L	0.1209	3.628	mg/L	0.1209	3.33%

Ag 328.068†	95256.0	0.5897 mg/L	0.02553	0.5897 mg/L	0.02553	4.33%
Cu 327.393†	53671.4	0.5171 mg/L	0.02160	0.5171 mg/L	0.02160	4.18%
Ni 231.604†	33564.1	1.023 mg/L	0.0451	1.023 mg/L	0.0451	4.41%
Zn 206.200†	24065.1	1.117 mg/L	0.0465	1.117 mg/L	0.0465	4.17%

Sequence No.: 21
Sample ID: LCSD 580-36738/11-A
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 35
Date Collected: 10/7/2008 3:22:46 PM

Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:14 PM,

Mean Data: LCSD 580-36738/11-A

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Lu 261.542	1421217.6	101.7	%	1.48				1.45%
Sc 361.383	2814081.4	101.8	%	1.33				1.30%
As 188.979†	4200.4	3.827	mg/L	0.0826	3.827	mg/L	0.0826	2.16%
Ba 233.527†	151215.0	4.018	mg/L	0.0983	4.018	mg/L	0.0983	2.45%
Cd 226.502†	7594.1	0.0983	mg/L	0.00221	0.0983	mg/L	0.00221	2.25%
Cr 267.716†	33672.0	0.3928	mg/L	0.00889	0.3928	mg/L	0.00889	2.26%
Pb 220.353†	5889.7	0.9975	mg/L	0.02541	0.9975	mg/L	0.02541	2.55%
Se 196.026†	2750.4	3.589	mg/L	0.0885	3.589	mg/L	0.0885	2.47%
Ag 328.068†	94370.7	0.5842	mg/L	0.01343	0.5842	mg/L	0.01343	2.30%
Cu 327.393†	52720.4	0.5080	mg/L	0.01237	0.5080	mg/L	0.01237	2.44%
Ni 231.604†	33245.4	1.013	mg/L	0.0233	1.013	mg/L	0.0233	2.30%
Zn 206.200†	23473.4	1.089	mg/L	0.0256	1.089	mg/L	0.0256	2.35%

Sequence No.: 22
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 10/7/2008 3:26:33 PM

Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:15 PM,

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Lu 261.542	1403958.8	100.4	%	2.06				2.05%
Sc 361.383	2772708.1	100.3	%	2.24				2.23%
As 188.979†	5653.6	5.151	mg/L	0.0931	5.151	mg/L	0.0931	1.81%
QC value within limits for As 188.979 Recovery = 103.01%								
Ba 233.527†	96764.3	2.571	mg/L	0.0717	2.571	mg/L	0.0717	2.79%
QC value within limits for Ba 233.527 Recovery = 102.86%								
Cd 226.502†	79455.6	1.028	mg/L	0.0294	1.028	mg/L	0.0294	2.86%
QC value within limits for Cd 226.502 Recovery = 102.84%								
Cr 267.716†	87948.7	1.026	mg/L	0.0298	1.026	mg/L	0.0298	2.90%
QC value within limits for Cr 267.716 Recovery = 102.59%								
Pb 220.353†	15160.9	2.568	mg/L	0.0489	2.568	mg/L	0.0489	1.91%
QC value within limits for Pb 220.353 Recovery = 102.71%								
Se 196.026†	3942.1	5.145	mg/L	0.0919	5.145	mg/L	0.0919	1.79%
QC value within limits for Se 196.026 Recovery = 102.89%								
Ag 328.068†	164333.9	1.017	mg/L	0.0286	1.017	mg/L	0.0286	2.81%
QC value within limits for Ag 328.068 Recovery = 101.73%								
Cu 327.393†	105256.6	1.014	mg/L	0.0292	1.014	mg/L	0.0292	2.88%
QC value within limits for Cu 327.393 Recovery = 101.41%								
Ni 231.604†	33826.0	1.031	mg/L	0.0277	1.031	mg/L	0.0277	2.69%
QC value within limits for Ni 231.604 Recovery = 103.09%								
Zn 206.200†	22685.7	1.053	mg/L	0.0274	1.053	mg/L	0.0274	2.61%
QC value within limits for Zn 206.200 Recovery = 105.27%								

All analytes passed QC.

Sequence No.: 23
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 10/7/2008 3:30:24 PM

Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:15 PM,

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Lu 261.542	1394590.4	99.75	%	1.653				1.66%
Sc 361.383	2743571.0	99.26	%	2.139				2.16%
As 188.979†	-1.0	-0.0010	mg/L	0.00106	-0.0010	mg/L	0.00106	110.83%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	-11.0	-0.0003	mg/L	0.00007	-0.0003	mg/L	0.00007	23.29%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Cd 226.502†	11.6	0.0002	mg/L	0.00004	0.0002	mg/L	0.00004	28.27%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Cr 267.716†	51.8	0.0006	mg/L	0.00047	0.0006	mg/L	0.00047	78.14%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Pb 220.353†	48.4	0.0082	mg/L	0.00111	0.0082	mg/L	0.00111	13.60%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Se 196.026†	1.0	0.0014	mg/L	0.00056	0.0014	mg/L	0.00056	41.07%
QC value within limits for Se 196.026 Recovery = Not calculated								
Ag 328.068†	-37.9	-0.0002	mg/L	0.00044	-0.0002	mg/L	0.00044	186.44%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Cu 327.393†	568.4	0.0055	mg/L	0.00285	0.0055	mg/L	0.00285	52.09%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Ni 231.604†	58.8	0.0018	mg/L	0.00058	0.0018	mg/L	0.00058	32.45%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Zn 206.200†	522.0	0.0242	mg/L	0.00147	0.0242	mg/L	0.00147	6.07%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analytes passed QC.

Sequence No.: 24
Sample ID: MB 580-36738/9-A
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 36
Date Collected: 10/7/2008 3:33:16 PM

Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:15 PM,

Mean Data: MB 580-36738/9-A

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Lu 261.542	1381469.5	98.81	%	2.836				2.87%
Sc 361.383	2745756.0	99.34	%	2.877				2.90%
As 188.979†	-4.3	-0.0039	mg/L	0.00444	-0.0039	mg/L	0.00444	113.19%
Ba 233.527†	-5.9	-0.0002	mg/L	0.00012	-0.0002	mg/L	0.00012	76.55%
Cd 226.502†	4.7	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007	114.16%
Cr 267.716†	343.9	0.0040	mg/L	0.00028	0.0040	mg/L	0.00028	6.89%
Pb 220.353†	68.6	0.0116	mg/L	0.00235	0.0116	mg/L	0.00235	20.22%
Se 196.026†	2.0	0.0026	mg/L	0.00390	0.0026	mg/L	0.00390	151.14%
Ag 328.068†	68.9	0.0004	mg/L	0.00016	0.0004	mg/L	0.00016	36.89%
Cu 327.393†	1255.7	0.0121	mg/L	0.00052	0.0121	mg/L	0.00052	4.30%
Ni 231.604†	89.1	0.0027	mg/L	0.00038	0.0027	mg/L	0.00038	14.18%
Zn 206.200†	595.7	0.0276	mg/L	0.00210	0.0276	mg/L	0.00210	7.60%

Sequence No.: 25
Sample ID: LCSSRM 580-36738/12-A
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 37
Date Collected: 10/7/2008 3:36:13 PM

Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:15 PM,

Mean Data: LCSSRM 580-36738/12-A

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Lu 261.542	1461522.0	104.5	%	1.13				1.08%
Sc 361.383	2961899.2	107.2	%	1.38				1.29%
As 188.979†	1012.5	0.9225	mg/L	0.00977	0.9225	mg/L	0.00977	1.06%
Ba 233.527†	162831.9	4.327	mg/L	0.0980	4.327	mg/L	0.0980	2.26%
Cd 226.502†	48608.4	0.6292	mg/L	0.01484	0.6292	mg/L	0.01484	2.36%
Cr 267.716†	86767.9	1.012	mg/L	0.0240	1.012	mg/L	0.0240	2.37%
Pb 220.353†	5395.5	0.9138	mg/L	0.00726	0.9138	mg/L	0.00726	0.79%
Se 196.026†	1207.9	1.576	mg/L	0.0054	1.576	mg/L	0.0054	0.34%

Ag 328.068†	133190.1	0.8245 mg/L	0.01945	0.8245 mg/L	0.01945	2.36%
Cu 327.393†	93860.5	0.9043 mg/L	0.02541	0.9043 mg/L	0.02541	2.81%
Ni 231.604†	38970.2	1.188 mg/L	0.0280	1.188 mg/L	0.0280	2.36%
Zn 206.200†	51915.0	2.409 mg/L	0.0597	2.409 mg/L	0.0597	2.48%

Sequence No.: 26
Sample ID: 580-11475-A-2-B
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 38
Date Collected: 10/7/2008 3:40:13 PM

Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:16 PM,

Mean Data: 580-11475-A-2-B

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Lu 261.542	1445894.3	103.4	%	1.13				1.09%
Sc 361.383	2901922.3	105.0	%	1.32				1.26%
As 188.979†	81.4	0.0741	mg/L	0.00524	0.0741	mg/L	0.00524	7.07%
Ba 233.527†	6737.6	0.1790	mg/L	0.00363	0.1790	mg/L	0.00363	2.03%
Cd 226.502†	645.7	0.0084	mg/L	0.00014	0.0084	mg/L	0.00014	1.62%
Cr 267.716†	23944.9	0.2793	mg/L	0.00717	0.2793	mg/L	0.00717	2.57%
Pb 220.353†	1467.4	0.2485	mg/L	0.00568	0.2485	mg/L	0.00568	2.28%
Se 196.026†	-10.4	-0.0135	mg/L	0.00337	-0.0135	mg/L	0.00337	24.93%
Ag 328.068†	-151.1	-0.0009	mg/L	0.00045	-0.0009	mg/L	0.00045	48.35%
Cu 327.393†	63125.6	0.6082	mg/L	0.01700	0.6082	mg/L	0.01700	2.79%
Ni 231.604†	8657.8	0.2639	mg/L	0.00525	0.2639	mg/L	0.00525	1.99%
Zn 206.200†	13433.6	0.6234	mg/L	0.01160	0.6234	mg/L	0.01160	1.86%

Sequence No.: 27
Sample ID: 580-11483-A-2-A
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 10/7/2008 3:44:11 PM

Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:16 PM,

Mean Data: 580-11483-A-2-A

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Lu 261.542	1433379.0	102.5	%	3.24				3.16%
Sc 361.383	2817707.6	101.9	%	3.95				3.87%
As 188.979†	-2.2	-0.0020	mg/L	0.00095	-0.0020	mg/L	0.00095	47.05%
Ba 233.527†	-0.8	0.0000	mg/L	0.00016	0.0000	mg/L	0.00016	792.87%
Cd 226.502†	9.2	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	24.32%
Cr 267.716†	135.7	0.0016	mg/L	0.00014	0.0016	mg/L	0.00014	8.65%
Pb 220.353†	26.4	0.0045	mg/L	0.00097	0.0045	mg/L	0.00097	21.65%
Se 196.026†	0.2	0.0003	mg/L	0.00360	0.0003	mg/L	0.00360	>999.9%
Ag 328.068†	-102.1	-0.0006	mg/L	0.00010	-0.0006	mg/L	0.00010	16.52%
Cu 327.393†	1147.7	0.0111	mg/L	0.00154	0.0111	mg/L	0.00154	13.97%
Ni 231.604†	25.1	0.0008	mg/L	0.00033	0.0008	mg/L	0.00033	43.01%
Zn 206.200†	1091.6	0.0507	mg/L	0.00254	0.0507	mg/L	0.00254	5.01%

Sequence No.: 28
Sample ID: 580-11483-A-3-A
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 40
Date Collected: 10/7/2008 3:47:07 PM

Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:16 PM,

Mean Data: 580-11483-A-3-A

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Lu 261.542	1425796.5	102.0	%	1.72				1.69%
Sc 361.383	2854047.2	103.3	%	0.81				0.78%
As 188.979†	26.5	0.0241	mg/L	0.00159	0.0241	mg/L	0.00159	6.60%
Ba 233.527†	22659.9	0.6022	mg/L	0.00706	0.6022	mg/L	0.00706	1.17%
Cd 226.502†	377.6	0.0049	mg/L	0.00039	0.0049	mg/L	0.00039	7.89%
Cr 267.716†	63163.1	0.7368	mg/L	0.00954	0.7368	mg/L	0.00954	1.29%
Pb 220.353†	213.2	0.0361	mg/L	0.00075	0.0361	mg/L	0.00075	2.08%

Se 196.026†	-25.4	-0.0331 mg/L	0.00536	-0.0331 mg/L	0.00536	16.18%
Ag 328.068†	-588.8	-0.0036 mg/L	0.00076	-0.0036 mg/L	0.00076	20.74%
Cu 327.393†	22481.1	0.2166 mg/L	0.00266	0.2166 mg/L	0.00266	1.23%
Ni 231.604†	18924.2	0.5768 mg/L	0.00663	0.5768 mg/L	0.00663	1.15%
Zn 206.200†	9109.3	0.4227 mg/L	0.00813	0.4227 mg/L	0.00813	1.92%

Sequence No.: 29
Sample ID: MB 580-36738/9-A
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 41
Date Collected: 10/7/2008 3:51:07 PM
Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:18 PM,

Mean Data: MB 580-36738/9-A

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Lu 261.542	1372950.7	98.20	%	1.870				1.90%
Sc 361.383	2692820.3	97.42	%	2.373				2.44%
As 188.979†	-1.3	-0.0012	mg/L	0.00132	-0.0012	mg/L	0.00132	112.20%
Ba 233.527†	-15.5	-0.0004	mg/L	0.00002	-0.0004	mg/L	0.00002	5.99%
Cd 226.502†	-2.2	0.0000	mg/L	0.00006	0.0000	mg/L	0.00006	203.23%
Cr 267.716†	-27.6	-0.0003	mg/L	0.00031	-0.0003	mg/L	0.00031	94.91%
Pb 220.353†	64.9	0.0110	mg/L	0.00204	0.0110	mg/L	0.00204	18.60%
Se 196.026†	1.2	0.0016	mg/L	0.00716	0.0016	mg/L	0.00716	456.54%
Ag 328.068†	35.4	0.0002	mg/L	0.00006	0.0002	mg/L	0.00006	25.43%
Cu 327.393†	55.9	0.0005	mg/L	0.00164	0.0005	mg/L	0.00164	304.79%
Ni 231.604†	-8.4	-0.0003	mg/L	0.00030	-0.0003	mg/L	0.00030	117.62%
Zn 206.200†	317.8	0.0147	mg/L	0.00113	0.0147	mg/L	0.00113	7.69%

Sequence No.: 30
Sample ID: LCS 580-36738/10-A
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 42
Date Collected: 10/7/2008 3:54:01 PM
Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:19 PM,

Mean Data: LCS 580-36738/10-A

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Lu 261.542	1432063.9	102.4	%	3.70				3.61%
Sc 361.383	2826423.3	102.3	%	3.66				3.58%
As 188.979†	4190.3	3.818	mg/L	0.1439	3.818	mg/L	0.1439	3.77%
Ba 233.527†	147873.7	3.930	mg/L	0.1414	3.930	mg/L	0.1414	3.60%
Cd 226.502†	7446.3	0.0964	mg/L	0.00368	0.0964	mg/L	0.00368	3.81%
Cr 267.716†	32968.0	0.3846	mg/L	0.01408	0.3846	mg/L	0.01408	3.66%
Pb 220.353†	5800.3	0.9823	mg/L	0.03195	0.9823	mg/L	0.03195	3.25%
Se 196.026†	2754.8	3.595	mg/L	0.1331	3.595	mg/L	0.1331	3.70%
Ag 328.068†	92311.6	0.5714	mg/L	0.02152	0.5714	mg/L	0.02152	3.77%
Cu 327.393†	51033.6	0.4917	mg/L	0.01921	0.4917	mg/L	0.01921	3.91%
Ni 231.604†	32439.2	0.9887	mg/L	0.03907	0.9887	mg/L	0.03907	3.95%
Zn 206.200†	22564.0	1.047	mg/L	0.0382	1.047	mg/L	0.0382	3.65%

Sequence No.: 31
Sample ID: LCSD 580-36738/11-A
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 43
Date Collected: 10/7/2008 3:57:57 PM
Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:19 PM,

Mean Data: LCSD 580-36738/11-A

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Lu 261.542	1403608.2	100.4	%	3.25				3.23%
Sc 361.383	2777202.5	100.5	%	3.37				3.35%
As 188.979†	4236.8	3.860	mg/L	0.1367	3.860	mg/L	0.1367	3.54%
Ba 233.527†	149668.6	3.977	mg/L	0.1118	3.977	mg/L	0.1118	2.81%
Cd 226.502†	7513.1	0.0972	mg/L	0.00340	0.0972	mg/L	0.00340	3.50%
Cr 267.716†	33321.0	0.3887	mg/L	0.01135	0.3887	mg/L	0.01135	2.92%

Pb 220.353†	5910.3	1.001 mg/L	0.0271	1.001 mg/L	0.0271	2.71%
Se 196.026†	2775.5	3.622 mg/L	0.1211	3.622 mg/L	0.1211	3.34%
Ag 328.068†	93393.7	0.5781 mg/L	0.01658	0.5781 mg/L	0.01658	2.87%
Cu 327.393†	51740.8	0.4985 mg/L	0.01437	0.4985 mg/L	0.01437	2.88%
Ni 231.604†	33011.5	1.006 mg/L	0.0280	1.006 mg/L	0.0280	2.78%
Zn 206.200†	22873.3	1.061 mg/L	0.0300	1.061 mg/L	0.0300	2.83%

Sequence No.: 32
Sample ID: LCSSRM 580-36738/12-A
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 44
Date Collected: 10/7/2008 4:01:54 PM

Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:20 PM,

Mean Data: LCSSRM 580-36738/12-A

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Lu 261.542	1446715.9	103.5	%	0.64				0.62%
Sc 361.383	2931681.2	106.1	%	1.10				1.03%
As 188.979†	1015.6	0.9252	mg/L	0.01287	0.9252	mg/L	0.01287	1.39%
Ba 233.527†	165898.0	4.409	mg/L	0.0508	4.409	mg/L	0.0508	1.15%
Cd 226.502†	49531.4	0.6411	mg/L	0.00658	0.6411	mg/L	0.00658	1.03%
Cr 267.716†	88684.8	1.034	mg/L	0.0105	1.034	mg/L	0.0105	1.02%
Pb 220.353†	5475.8	0.9274	mg/L	0.00788	0.9274	mg/L	0.00788	0.85%
Se 196.026†	1207.1	1.575	mg/L	0.0132	1.575	mg/L	0.0132	0.84%
Ag 328.068†	135744.2	0.8403	mg/L	0.00770	0.8403	mg/L	0.00770	0.92%
Cu 327.393†	95519.8	0.9203	mg/L	0.00930	0.9203	mg/L	0.00930	1.01%
Ni 231.604†	39906.1	1.216	mg/L	0.0141	1.216	mg/L	0.0141	1.16%
Zn 206.200†	52917.8	2.456	mg/L	0.0189	2.456	mg/L	0.0189	0.77%

Sequence No.: 33
Sample ID: MB 580-36738/9-A
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 45
Date Collected: 10/7/2008 4:05:49 PM

Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:20 PM,

Mean Data: MB 580-36738/9-A

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Lu 261.542	1388834.9	99.34	%	3.569				3.59%
Sc 361.383	2725691.1	98.61	%	3.944				4.00%
As 188.979†	-2.6	-0.0023	mg/L	0.00216	-0.0023	mg/L	0.00216	92.65%
Ba 233.527†	-10.0	-0.0003	mg/L	0.00004	-0.0003	mg/L	0.00004	14.04%
Cd 226.502†	14.3	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	29.62%
Cr 267.716†	27.7	0.0003	mg/L	0.00044	0.0003	mg/L	0.00044	137.02%
Pb 220.353†	86.4	0.0146	mg/L	0.00130	0.0146	mg/L	0.00130	8.86%
Se 196.026†	1.6	0.0021	mg/L	0.00269	0.0021	mg/L	0.00269	127.62%
Ag 328.068†	-17.0	-0.0001	mg/L	0.00031	-0.0001	mg/L	0.00031	290.13%
Cu 327.393†	392.6	0.0038	mg/L	0.00273	0.0038	mg/L	0.00273	72.06%
Ni 231.604†	30.7	0.0009	mg/L	0.00034	0.0009	mg/L	0.00034	36.48%
Zn 206.200†	628.7	0.0292	mg/L	0.00315	0.0292	mg/L	0.00315	10.80%

Sequence No.: 34
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 10/7/2008 4:08:43 PM

Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:20 PM,

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Lu 261.542	1355088.8	96.92	%	4.402				4.54%
Sc 361.383	2682401.4	97.05	%	4.013				4.13%
As 188.979†	5806.6	5.290	mg/L	0.2176	5.290	mg/L	0.2176	4.11%
QC value within limits for As 188.979 Recovery = 105.80%								
Ba 233.527†	98205.6	2.610	mg/L	0.2084	2.610	mg/L	0.2084	7.99%

QC value within limits for Ba 233.527 Recovery = 104.39%

Cd 226.502†	80611.5	1.043 mg/L	0.0825	1.043 mg/L	0.0825	7.91%

QC value within limits for Cd 226.502 Recovery = 104.34%

Cr 267.716†	89268.6	1.041 mg/L	0.0818	1.041 mg/L	0.0818	7.86%

QC value within limits for Cr 267.716 Recovery = 104.13%

Pb 220.353†	15654.7	2.651 mg/L	0.2096	2.651 mg/L	0.2096	7.91%

QC value within limits for Pb 220.353 Recovery = 106.05%

Se 196.026†	4048.6	5.284 mg/L	0.2160	5.284 mg/L	0.2160	4.09%

QC value within limits for Se 196.026 Recovery = 105.67%

Ag 328.068†	166519.1	1.031 mg/L	0.0819	1.031 mg/L	0.0819	7.94%

QC value within limits for Ag 328.068 Recovery = 103.08%

Cu 327.393†	106222.1	1.023 mg/L	0.0810	1.023 mg/L	0.0810	7.91%

QC value within limits for Cu 327.393 Recovery = 102.34%

Ni 231.604†	34316.0	1.046 mg/L	0.0812	1.046 mg/L	0.0812	7.77%

QC value within limits for Ni 231.604 Recovery = 104.59%

Zn 206.200†	22900.9	1.063 mg/L	0.0837	1.063 mg/L	0.0837	7.88%

QC value within limits for Zn 206.200 Recovery = 106.27%

All analytes passed QC.

Sequence No.: 35
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 10/7/2008 4:12:42 PM

Sample Prep Volume:
Data Type: Reprocessed on 10/7/2008 4:18:20 PM,

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Lu 261.542	1347453.5	96.38	%	3.183				3.30%
Sc 361.383	2654975.2	96.05	%	3.509				3.65%
As 188.979†	1.3	0.0012	mg/L	0.00173	0.0012	mg/L	0.00173	143.86%

QC value within limits for As 188.979 Recovery = Not calculated

Ba 233.527†	-12.9	-0.0003	mg/L	0.00020	-0.0003	mg/L	0.00020	57.40%

QC value within limits for Ba 233.527 Recovery = Not calculated

Cd 226.502†	12.9	0.0002	mg/L	0.00008	0.0002	mg/L	0.00008	50.00%

QC value within limits for Cd 226.502 Recovery = Not calculated

Cr 267.716†	52.6	0.0006	mg/L	0.00059	0.0006	mg/L	0.00059	95.94%

QC value within limits for Cr 267.716 Recovery = Not calculated

Pb 220.353†	93.6	0.0158	mg/L	0.00170	0.0158	mg/L	0.00170	10.76%

QC value within limits for Pb 220.353 Recovery = Not calculated

Se 196.026†	-0.2	-0.0003	mg/L	0.00455	-0.0003	mg/L	0.00455	>999.9%

QC value within limits for Se 196.026 Recovery = Not calculated

Ag 328.068†	17.8	0.0001	mg/L	0.00052	0.0001	mg/L	0.00052	475.16%

QC value within limits for Ag 328.068 Recovery = Not calculated

Cu 327.393†	289.3	0.0028	mg/L	0.00138	0.0028	mg/L	0.00138	49.69%

QC value within limits for Cu 327.393 Recovery = Not calculated

Ni 231.604†	37.6	0.0011	mg/L	0.00030	0.0011	mg/L	0.00030	25.96%

QC value within limits for Ni 231.604 Recovery = Not calculated

Zn 206.200†	397.5	0.0184	mg/L	0.00176	0.0184	mg/L	0.00176	9.54%

QC value within limits for Zn 206.200 Recovery = Not calculated

All analytes passed QC.

LABORATORY WORKSHEETS

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-36738

Method Code: 580-3050B-580

Analyst: Boardway, Peter A

Batch Open: 10/7/2008 11:19:13AM

Batch End: 10/7/2008 12:45:00PM

Preparation, Metals

	Input Sample Lab ID (Analytical Method)	SDG	Matrix	Initial Amount	Final Amount	Due Date	Analytical TAT	Dlv Rank	Comments	Output Sample Lab ID
1	580-11475-A-1 (6010B)	N/A	Solid	1.2528 g	50 mL	10/9/08	3_Days	4		580-318284
2	580-11475-A-1~DU (6010B)	N/A	Solid	1.1524 g	50 mL	10/9/08	3_Days	4		580-318285
3	580-11475-A-1~DU (6010B)	N/A	Solid	1.1966 g	50 mL	10/9/08	3_Days	4		580-318286
4	580-11475-A-1~MS (6010B)	N/A	Solid	1.2671 g	50 mL	10/9/08	3_Days	4		580-318287
5	580-11475-A-1~MSD (6010B)	N/A	Solid	1.1292 g	50 mL	10/9/08	3_Days	4		580-318288
6	580-11475-A-2 (6010B)	N/A	Solid	1.0952 g	50 mL	10/9/08	3_Days	4		580-318289
7	580-11483-A-2 (6010B)	N/A	Waste	0.5101 g	50 mL	10/8/08	1_Day	2		580-318290
8	580-11483-A-3 (6010B)	N/A	Solid	1.1336 g	50 mL	10/8/08	1_Day	2		580-318291
9	MB~580-36738/9 N/A	N/A		1.0 g	50 mL	N/A	N/A	N/A		580-318292
10	LCS~580-36738/10 N/A	N/A		1.0 g	50 mL	N/A	N/A	N/A		580-318293
11	LCSD~580-36738/11 N/A	N/A		1.0 g	50 mL	N/A	N/A	N/A		580-318294
12	LCSSRM~580-36738/12 N/A	N/A		0.4980 g	50 mL	N/A	N/A	N/A		580-318455

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-36738

Method Code: 580-3050B-580

Analyst: Boardway, Peter A

Batch Open: 10/7/2008 11:19:13AM

Batch End: 10/7/2008 12:45:00PM

Batch Notes

Acid used for pH adjustment	
Analyst	
Balance ID	SEA204
Batch Comment	
Blank Soil Lot Number	
First End time	
Hydrogen peroxide lot number	S007
Lot # of hydrochloric acid	4108010
Logbook ID for diluted Nitric	
Lot # of Nitric Acid	1107120
Hood ID or number	06
Hot Block ID number	38009
Oven, Bath or Block Temperature 1	
Oven, Bath or Block Temperature 2	
Person's name who witnessed reagent drop	
First Start time	
Temperature	95
ID number of the thermometer	15-041-1A
DigestionTubes	080617

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-36738

Method Code: 580-3050B-580

Analyst: Boardway, Peter A

Batch Open: 10/7/2008 11:19:13AM

Batch End: 10/7/2008 12:45:00PM

Comments

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-36738

Method Code: 580-3050B-580

Analyst: Boardway, Peter A

Batch Open: 10/7/2008 11:19:13AM

Batch End: 10/7/2008 12:45:00PM

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
580-11475-A-1 MS	m-GPS-1_00008	1 mL	50 mL		
580-11475-A-1 MS	m-GPS-2_00008	1 mL	50 mL		
580-11475-A-1 MS	m-GPS-3_00008	1 mL	50 mL		
580-11475-A-1 MS	m-GPS-4_00008	1 mL	50 mL		
580-11475-A-1 MSD	m-GPS-1_00008	1 mL	50 mL		
580-11475-A-1 MSD	m-GPS-2_00008	1 mL	50 mL		
580-11475-A-1 MSD	m-GPS-3_00008	1 mL	50 mL		
580-11475-A-1 MSD	m-GPS-4_00008	1 mL	50 mL		
LCS 580-36738/10	m-GPS-1_00008	1 mL	50 mL		
LCS 580-36738/10	m-GPS-2_00008	1 mL	50 mL		
LCS 580-36738/10	m-GPS-3_00008	1 mL	50 mL		
LCS 580-36738/10	m-GPS-4_00008	1 mL	50 mL		
LCSD 580-36738/11	m-GPS-1_00008	1 mL	50 mL		
LCSD 580-36738/11	m-GPS-2_00008	1 mL	50 mL		
LCSD 580-36738/11	m-GPS-3_00008	1 mL	50 mL		
LCSD 580-36738/11	m-GPS-4_00008	1 mL	50 mL		
LCSSRM 580-36738/12	SRMsolid_00003	0.4980 g	50 mL		

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-36738

Method Code: 580-3050B-580

Analyst: Boardway, Peter A

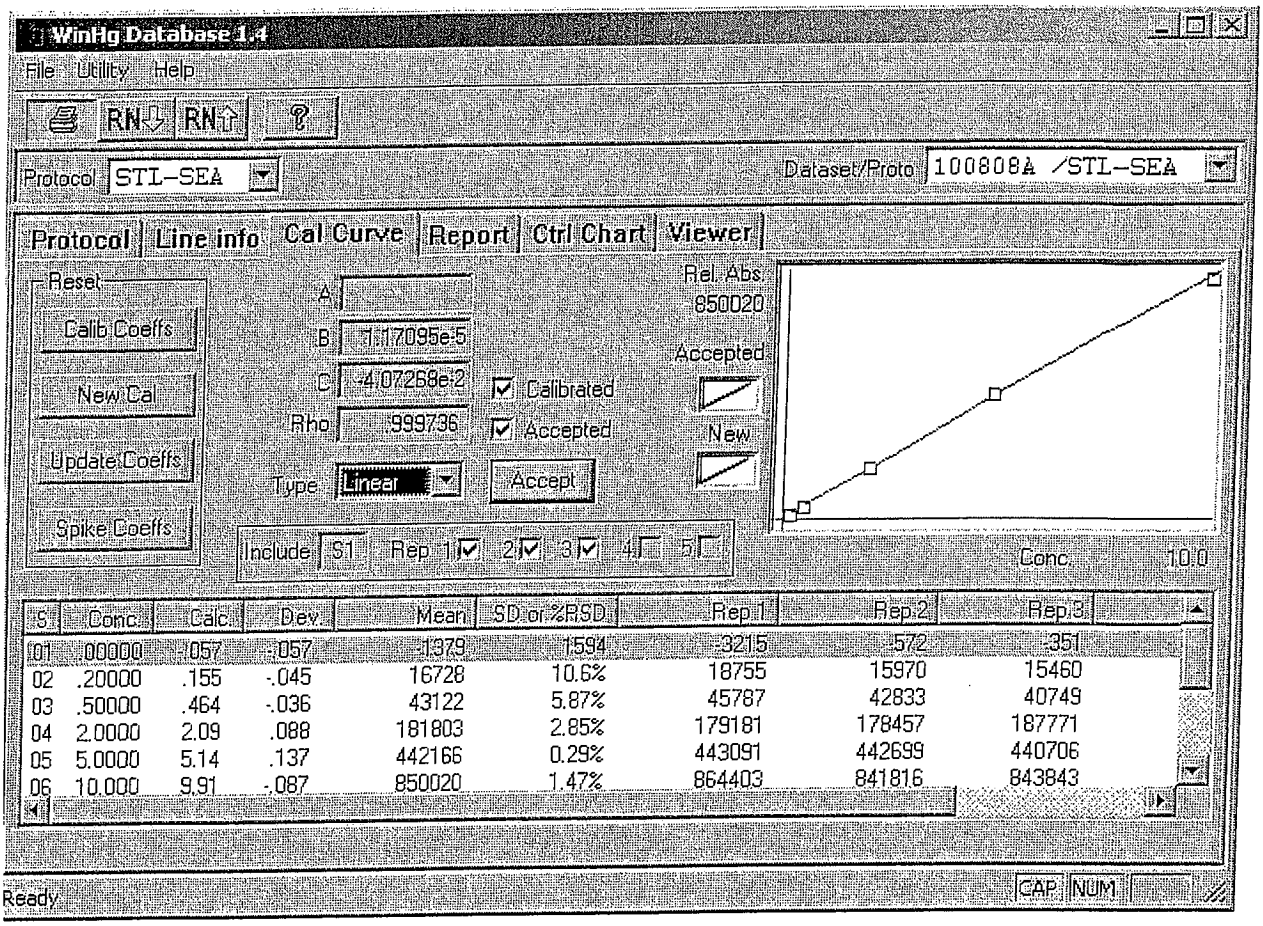
Batch Open: 10/7/2008 11:19:13AM

Batch End: 10/7/2008 12:45:00PM

Other Reagents:

Reagent	Amount/Units	Lot#:

TOTAL MERCURY DATA PACKAGE


WinHg Database 1.4
File Utility Help
RN RN
Protocol STL-SEA
Dataset/Proto 100808A /STL-SEA
Protocol Line info Cal Curve Report Ctrl Chart Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 1.17095e-5
C -4.07268e-2
Rho .999736
Calibrated
Accepted
Type Linear
Accept
Rel. Abs.
850020
Accepted
New
Include S1 Rep 1 2 3 4 5
Conc. 10.0
S Conc. Calc. Dev. Mean SD or %RSD Rep 1 Rep 2 Rep 3
01 .00000 .057 .057 1379 1594 3215 572 351
02 .20000 .155 -.045 16728 10.6% 18755 15970 15460
03 .50000 .464 -.036 43122 5.87% 45787 42833 40749
04 2.0000 2.09 .088 181803 2.85% 179181 178457 187771
05 5.0000 5.14 .137 442166 0.29% 443091 442699 440706
06 10.000 9.91 -.087 850020 1.47% 864403 841816 843843
Ready
CAP NUM

STDs 10/8/08

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Standard: 1 Rep: 1				Seq: 0		06:30:53 08 Oct 08			HG
Hg	.000	PPB	-3215						
*** Standard: 1 Rep: 2				Seq: 1		06:34:32 08 Oct 08			HG
Hg	.000	PPB	-572						
*** Standard: 1 Rep: 3				Seq: 2		06:39:27 08 Oct 08			HG
Hg	.000	PPB	-351						
*** Standard: 2 Rep: 2				Seq: 4		06:46:49 08 Oct 08			HG
Hg	.200	PPB	15970						
*** Standard: 2 Rep: 3				Seq: 5		06:50:18 08 Oct 08			HG
Hg	.200	PPB	15460						
*** Standard: 2 Rep: 1				Seq: 6		06:53:49 08 Oct 08			HG
Hg	.200	PPB	18755						
*** Standard: 3 Rep: 1				Seq: 7		06:57:40 08 Oct 08			HG
Hg	.500	PPB	45786						
*** Standard: 3 Rep: 3				Seq: 9		07:04:59 08 Oct 08			HG
Hg	.500	PPB	40749						
*** Standard: 3 Rep: 2				Seq: 10		07:08:40 08 Oct 08			HG
Hg	.500	PPB	42833						
*** Standard: 4 Rep: 1				Seq: 11		07:12:13 08 Oct 08			HG
Hg	2.00	PPB	179181						
*** Standard: 4 Rep: 2				Seq: 12		07:15:42 08 Oct 08			HG
Hg	2.00	PPB	178457						
*** Standard: 4 Rep: 3				Seq: 13		07:19:21 08 Oct 08			HG
Hg	2.00	PPB	187771						
*** Standard: 5 Rep: 1				Seq: 14		07:23:07 08 Oct 08			HG
Hg	5.00	PPB	443091						
*** Standard: 5 Rep: 2				Seq: 15		07:26:40 08 Oct 08			HG
Hg	5.00	PPB	442699						
*** Standard: 5 Rep: 3				Seq: 16		07:30:09 08 Oct 08			HG
Hg	5.00	PPB	440706						
*** Standard: 6 Rep: 1				Seq: 17		07:33:40 08 Oct 08			HG
Hg	10.0	PPB	864402						

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-------------------------------------------------------------------------

*** Standard: 6 Rep: 2              Seq:  18     07:37:23 08 Oct 08   HG

Hg    10.0    PPB       841816

*** Standard: 6 Rep: 3              Seq:  19     07:40:54 08 Oct 08   HG

Hg    10.0    PPB       843843

*** Check Standard: 3  Ck32 PPB     Seq:  20     07:45:09 08 Oct 08   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.    2.04    2.00  PPB         .000

*** Check Standard: 1  Ck1BLANK     Seq:  21     07:48:40 08 Oct 08   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .077    .200     PPB         .000

*** Check Standard: 4  Ck45 PPB     Seq:  22     07:52:22 08 Oct 08   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          100.    5.02    5.00  PPB         .000

*** Check Standard: 1  Ck1BLANK     Seq:  23     07:56:04 08 Oct 08   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.080    .200     PPB         .000

*** Sample ID: 580-318205           Seq:  24     07:59:33 08 Oct 08   HG
                          FCW(36733)
Hg   -.035    PPB        .000     -.035
=========================================================================
*** Sample ID: 580-318206           Seq:  25     08:03:22 08 Oct 08   HG
                          FCW(36733)
Hg    2.00    PPB        .000      2.00
                                                                       =
=========================================================================
*** Sample ID: 580-318207           Seq:  26     08:07:00 08 Oct 08   HG
                          FCW(36733)
Hg    1.99    PPB        .000      1.99
                                                                       =
=========================================================================
*** Sample ID: 580-318208           Seq:  27     08:10:37 08 Oct 08   HG
                          FCW(36733)
Hg    8.91    PPB        .000      8.91
                                                                       =
*** Check Standard: 4  Ck45 PPB     Seq:  28     08:14:06 08 Oct 08   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          97.5    4.87    5.00  PPB         .000
                                                                       =
*** Check Standard: 1  Ck1BLANK     Seq:  29     08:17:35 08 Oct 08   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.076    .200     PPB         .000
                                                                       =
*** Sample ID: 580-318182           Seq:  30     08:21:05 08 Oct 08   HG
                          FCW(36733)
Hg    .199    PPB        .000      .199
                                                                       =
=========================================================================
*** Sample ID: 580-318183           Seq:  31     08:24:38 08 Oct 08   HG
                          FCW(36733)
Hg    .249    PPB        .000      .249
                                                                       =
=========================================================================
```

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 580-318184 Seq: 32 08:28:10 08 Oct 08 HG
FCW(36733)

Hg	.156	PPB	.000	.156	

*** Sample ID: 580-318185 Seq: 33 08:31:40 08 Oct 08 HG
FCW(36733)

Hg	.322	PPB	.000	.322	

*** Sample ID: 580-318186 Seq: 34 08:35:21 08 Oct 08 HG
FCW(36733)

Hg	.505	PPB	.000	.505	

*** Sample ID: 580-318187 Seq: 35 08:39:12 08 Oct 08 HG
FCW(36733)

Hg	2.10	PPB	.000	2.10	

*** Sample ID: 580-318188 Seq: 36 08:43:13 08 Oct 08 HG
FCW(36733)

Hg	2.11	PPB	.000	2.11	

*** Sample ID: 580-318189 Seq: 37 08:46:52 08 Oct 08 HG
FCW(36733)

Hg	.341	PPB	.000	.341	

*** Sample ID: 580-318190 Seq: 38 08:50:22 08 Oct 08 HG
FCW(36733)

Hg	.547	PPB	.000	.547	

*** Sample ID: 580-318191 Seq: 39 08:54:02 08 Oct 08 HG
FCW(36733)

Hg	.436	PPB	.000	.436	

*** Check Standard: 4 Ck45 PPB Seq: 40 08:57:44 08 Oct 08 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.7	4.83	5.00	PPB	.000

*** Check Standard: 1 Ck1BLANK Seq: 41 09:01:23 08 Oct 08 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.043	.200	PPB	.000

*** Sample ID: 580-318192 Seq: 42 09:04:53 08 Oct 08 HG
FCW(36733)

Hg	.282	PPB	.000	.282	

*** Sample ID: 580-318193 Seq: 43 09:08:22 08 Oct 08 HG
FCW(36733)

Hg	-.001	PPB	.000	-.001	

*** Sample ID: 580-318194 Seq: 44 09:12:24 08 Oct 08 HG
FCW(36733)

Hg	.001	PPB	.000	.001	

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 580-318195 Seq: 45 09:15:54 08 Oct 08 HG

FCW(36733)

Hg	.504	PPB	.000	.504	

*** Sample ID: 580-318196 Seq: 46 09:19:24 08 Oct 08 HG

FCW(36733)

Hg	.480	PPB	.000	.480	

*** Sample ID: 580-318197 Seq: 47 09:23:13 08 Oct 08 HG

FCW(36733)

Hg	.100	PPB	.000	.100	

*** Sample ID: 580-318198 Seq: 48 09:26:42 08 Oct 08 HG

FCW(36733)

Hg	.218	PPB	.000	.218	

*** Sample ID: 580-318199 Seq: 49 09:30:35 08 Oct 08 HG

FCW(36733)

Hg	.218	PPB	.000	.218	

*** Sample ID: 580-318200 Seq: 50 09:34:15 08 Oct 08 HG

FCW(36733)

Hg	.083	PPB	.000	.083	

*** Sample ID: 580-318201 Seq: 51 09:37:55 08 Oct 08 HG

FCW(36733)

Hg	.632	PPB	.000	.632	

*** Check Standard: 4 Ck45 PPB Seq: 52 09:41:37 08 Oct 08 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		95.9	4.80	5.00	PPB	.000

*** Check Standard: 1 Ck1BLANK Seq: 53 09:45:10 08 Oct 08 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.040	.200	PPB	.000

*** Sample ID: 580-318202 Seq: 54 09:48:40 08 Oct 08 HG

FCW(36733)

Hg	.199	PPB	.000	.199	

*** Sample ID: 580-318203 Seq: 55 09:52:10 08 Oct 08 HG

FCW(36733)

Hg	2.80	PPB	.000	2.80	

*** Sample ID: 580-318204 Seq: 56 09:55:40 08 Oct 08 HG

FCW(36733)

Hg	1.59	PPB	.000	1.59	

*** Check Standard: 4 Ck45 PPB Seq: 57 09:59:29 08 Oct 08 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		95.7	4.79	5.00	PPB	.000

*** Check Standard: 1 Ck1BLANK Seq: 58 10:03:13 08 Oct 08 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.042	.200	PPB	.000

LABORATORY WORKSHEETS

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-36733

Method Code: 580-7471A_Prep-580

Analyst: Duke, Dean

Batch Open: 10/7/2008 9:55:09AM

Batch End: 10/7/2008 11:00:00AM

Preparation, Mercury

	Input Sample Lab ID (Analytical Method)	SDG	Matrix	Initial Amount	Final Amount	Due Date	Analytical TAT	Dlv Rank	Comments	Output Sample Lab ID
1	580-11469-A-1 (7471A)	N/A	Solid	0.5673 g	50 mL	10/16/08	13_Days - R	4		580-318182
2	580-11469-A-2 (7471A)	N/A	Solid	0.5508 g	50 mL	10/16/08	13_Days - R	4		580-318183
3	580-11469-A-3 (7471A)	N/A	Solid	0.5109 g	50 mL	10/16/08	13_Days - R	4		580-318184
4	580-11469-A-4 (7471A)	N/A	Solid	0.5358 g	50 mL	10/16/08	13_Days - R	4		580-318185
5	580-11469-A-4~DU (7471A)	N/A	Solid	0.5443 g	50 mL	10/16/08	13_Days - R	4		580-318186
6	580-11469-A-4~MS (7471A)	N/A	Solid	0.5396 g	50 mL	10/16/08	13_Days - R	4		580-318187
7	580-11469-A-4~MSD (7471A)	N/A	Solid	0.5252 g	50 mL	10/16/08	13_Days - R	4		580-318188
8	580-11469-A-5 (7471A)	N/A	Solid	0.5585 g	50 mL	10/16/08	13_Days - R	4		580-318189
9	580-11469-A-6 (7471A)	N/A	Solid	0.5800 g	50 mL	10/16/08	13_Days - R	4		580-318190
10	580-11469-A-7 (7471A)	N/A	Solid	0.5760 g	50 mL	10/16/08	13_Days - R	4		580-318191
11	580-11469-A-8 (7471A)	N/A	Solid	0.5474 g	50 mL	10/16/08	13_Days - R	4		580-318192
12	580-11469-A-9 (7471A)	N/A	Solid	0.5609 g	50 mL	10/16/08	13_Days - R	4		580-318193
13	580-11469-A-10 (7471A)	N/A	Solid	0.5058 g	50 mL	10/16/08	13_Days - R	4		580-318194
14	580-11469-A-11 (7471A)	N/A	Solid	0.5135 g	50 mL	10/16/08	13_Days - R	4		580-318195
15	580-11469-A-12 (7471A)	N/A	Solid	0.5366 g	50 mL	10/16/08	13_Days - R	4		580-318196

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-36733 Analyst: Duke, Dean Batch Open: 10/7/2008 9:55:09AM

Method Code: 580-7471A_Prep-580 Batch End: 10/7/2008 11:00:00AM

16	580-11469-A-13 (7471A)	N/A	Solid	0.5245 g	50 mL	10/16/08	13_Days - R	4			580-318197
17	580-11469-A-14 (7471A)	N/A	Solid	0.5261 g	50 mL	10/16/08	13_Days - R	4			580-318198
18	580-11469-A-15 (7471A)	N/A	Solid	0.5275 g	50 mL	10/16/08	13_Days - R	4			580-318199
19	580-11469-A-16 (7471A)	N/A	Solid	0.5595 g	50 mL	10/16/08	13_Days - R	4			580-318200
20	580-11469-A-17 (7471A)	N/A	Solid	0.5158 g	50 mL	10/16/08	13_Days - R	4			580-318201
21	580-11423-A-2 (7471A)	N/A	Solid	0.5237 g	50 mL	10/13/08	8_Days - R	2			580-318202
22	580-11475-A-1 (7471A)	N/A	Solid	0.5595 g	50 mL	10/9/08	3_Days	4			580-318203
23	580-11475-A-2 (7471A)	N/A	Solid	0.5652 g	50 mL	10/9/08	3_Days	4			580-318204
24	MB~580-36733/24 N/A	N/A		0.5 g	50 mL	N/A	N/A	N/A			580-318205
25	LCS~580-36733/25 N/A	N/A		0.5 g	50 mL	N/A	N/A	N/A			580-318206
26	LCSD~580-36733/26 N/A	N/A		0.5 g	50 mL	N/A	N/A	N/A			580-318207
27	LCSSRM~580-36733/27 N/A	N/A		0.0977 g	50 mL	N/A	N/A	N/A			580-318208

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-36733

Method Code: 580-7471A_Prep-580

Analyst: Duke, Dean

Batch Open: 10/7/2008 9:55:09AM

Batch End: 10/7/2008 11:00:00AM

Batch Notes

Hydroxylamine Sulfate Lot Number	07227A
Hydroxylamine Hydrochloride Lot	
Acid used for pH adjustment	
Aqua Regia Lot Number	
Balance ID	SEA211
Batch Comment	
Blank Soil Lot Number	
Sulfuric Acid Lot Number	3106040
Lot # of hydrochloric acid	4108010
Lot # of Nitric Acid	1107120
Hood ID or number	06
Hot Block ID number	38009
Potassium Persulfate Lot Number	060384
Potassium Permanganate Lot Number	073634
NaCL Lot #	035509
Oven, Bath or Block Temperature 1	95
Oven, Bath or Block Temperature 2	95
Repittetor Volume Check	
Stannous Chloride Lot Number	076262
SOP Number	

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-36733

Analyst: Duke, Dean

Batch Open: 10/7/2008 9:55:09AM

Method Code: 580-7471A_Prep-580

Batch End: 10/7/2008 11:00:00AM

ID number of the thermometer	15-041-1A
DigestionTubes	080617

Comments

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-36733

Method Code: 580-7471A_Prep-580

Analyst: Duke, Dean

Batch Open: 10/7/2008 9:55:09AM

Batch End: 10/7/2008 11:00:00AM

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
580-11469-A-4 MS	HgSPK_00014	1 mL	50 mL		
580-11469-A-4 MSD	HgSPK_00014	1 mL	50 mL		
LCS 580-36733/25	HgSPK_00014	1 mL	50 mL		
LCSD 580-36733/26	HgSPK_00014	1 mL	50 mL		
LCSSRM 580-36733/27	SRMsolid_00003	0.0977 g	50 mL		

Other Reagents:

Reagent	Amount/Units	Lot#:

SUBCONTRACTOR ANALYSIS REQUEST
CUSTODY TRANSFER 10/06/08

ANALYTICAL RESOURCES INCORPORATED

ARI Project: NS52

11475

Laboratory: Test America - Tacoma
Lab Contact: Sample Receiving
Lab Address: 5755 8th Street East
Fife, WA 98424
Phone: 253-922-2310
Fax: 253-922-5047

ARI Client: Anchor Environmental, LLC
Project ID: EDDON BOATYARD
ARI PM: Sue Dunnihoo
Phone: 206-695-6207
Fax: 206-695-6201

Analytical Protocol: PSDDA
Special Instructions:

Requested Turn Around: **10/09/08**
Fax Results (Y/N): **Yes**

Limits of Liability. *Subcontractor is expected to perform all requested services in accordance with appropriate methodology following Standard Operating Procedures that meet standards for the industry. The total liability of ARI, its officers, agents, employees, or sucessors, arising out of or in connection with the requested services, shall not exceed the negotiated amount for said services. The agreement by the Subcontractor to perform services requested by ARI releases ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Subcontractor.*

ARI ID	Client ID/ Add'l ID	Sampled	Matrix	Bottles	Analyses
08-26288-NS52C	EB-SE03-A-081003	10/03/08	Sediment	0	Metals (Sub)
Special Instructions: TOTAL SMS METALS					
08-26290-NS52E	EB-SE04-A-081003	10/03/08	Sediment	0	Metals (Sub)
Special Instructions: TOTAL SMS METALS					

Carrier	Airbill		Date
Relinquished by: Amanda	Company: ARI	Date: 10/6/08	Time: 12:10
Received by: Rhea	Company: TAR TOR	Date: 10/6/08	Time: 1210

Subcontractor Custody Form - **NS52**
Page 1 of 1

Login Sample Receipt Check List

Client: Analytical Resources, Inc

Job Number: 580-11475-1

Login Number: 11475
List Source: TestAmerica Tacoma
Creator: Presley, Kim
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

GIG HARBOR
"THE MARITIME CITY"

CITY OF GIG HARBOR
SHOP DRAWING SUBMITTAL

Project: EDDON BOATYARD SEDIMENT REMEDIATION PROJECT

Submittal No: 10

Contractor: AMERICAN CIVIL CONSTRUCTORS WEST COAST, INC.

Date: SEPT 18, 2008

Resubmittal (Y/N): N

Project No: CPP-0801

To Be Completed By Contractor				To Be Completed By City				
Item No.	P/C (*)	Specification Para/Dwg Reference	Description of Item	Copies Sub'm	No Exceptions Taken	Make Corrections Noted	Amend and Resubmit	Rejected Resubmit
1	C	2-14.2(4)	CHEMICAL ANALYSIS OF SAND & HABITAT MIX					
			& CHAIN OF CUSTODY 11 PAGES					
2	C	2-14.2(4)	GRAIN SIZE DISTRIBUTION - 2 PAGES					
			SAND & HABITAT MIX					

(*) P-Partial Submittal, C-Complete Submittal

Contractor, initial by either (a) or (b) to certify the following:

(a) We have verified that the material or equipment contained in this submittal meets requirements specified or shown, (no exceptions): [ED]

(b) We have verified that the material or equipment contained in this submittal meets all requirements specified or shown, except for the following deviations, (list deviations): [ ]

Review Remarks:

Corrections or comments made relative to submittals during this review do not relieve the contractor from compliance with the requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for confirming and correcting all quantities and dimensions, selecting fabrication processes and techniques of construction, coordinating his work with that of either trades, and performing his work in a safe and satisfactory manner.

ED THORNTON
Contractor's Authorized Representative

Sincerely,
City of Gig Harbor
Engineering Division

City Engineer

SPECTRA Laboratories
2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

09/17/2008

American Civil Constructors-Hurlen
700 Riverside Drive
Seattle, WA 98108
Attn: Ed Thornton

Project: 1508012
Client ID: Sand
Sample Matrix: Sand
Date Sampled: 09/12/2008
Date Received: 09/12/2008
Spectra Project: 2008090225
Spectra Number: 1
Rush

Analyte	Result	Units	Method	Analyte	Result	Units	Method
Total Antimony	< 3	mg/Kg	SW846 6010B	Endosulfan II	<0.002	mg/Kg	SW846 8081
Total Arsenic	< 5	mg/Kg	SW846 6010B	Endosulfan Sulfate	<0.002	mg/Kg	SW846 8081
Total Beryllium	< 0.1	mg/Kg	SW846 6010B	Endrin	<0.002	mg/Kg	SW846 8081
Total Cadmium	< 0.3	mg/Kg	SW846 6010B	Endrin Aldehyde	<0.002	mg/Kg	SW846 8081
Total Chromium	15	mg/Kg	SW846 6010B	Endrin Ketone	<0.002	mg/Kg	SW846 8081
Total Copper	13	mg/Kg	SW846 6010B	Heptachlor	<0.002	mg/Kg	SW846 8081
Total Lead	< 4	mg/Kg	SW846 6010B	Heptachlor Epoxide	<0.002	mg/Kg	SW846 8081
Total Nickel	10	mg/Kg	SW846 6010B	Methoxychlor	<0.002	mg/Kg	SW846 8081
Total Selenium	< 8	mg/Kg	SW846 6010B	alpha-BHC	<0.002	mg/Kg	SW846 8081
Total Silver	< 0.7	mg/Kg	SW846 6010B	alpha-Chlordane	<0.002	mg/Kg	SW846 8081
Total Thallium	< 4	mg/Kg	SW846 6010B	beta-BHC	<0.002	mg/Kg	SW846 8081
Total Zinc	30	mg/Kg	SW846 6010B	delta-BHC	<0.002	mg/Kg	SW846 8081
Total Mercury	< 0.05	mg/Kg	SW846 7471B	gamma-BHC (Lindane)	<0.002	mg/Kg	SW846 8081
4,4-DDD	<0.002	mg/Kg	SW846 8081	gamma-Chlordane	<0.002	mg/Kg	SW846 8081
4,4-DDE	<0.002	mg/Kg	SW846 8081	PCB	<0.01	mg/Kg	SW846 8082
4,4-DDT	<0.002	mg/Kg	SW846 8081	1,1,1,2-Tetrachloroethane	<0.0025	mg/Kg	SW846 8260B
Aldrin	<0.002	mg/Kg	SW846 8081	1,1,1-Trichloroethane	<0.0025	mg/Kg	SW846 8260B
Dieldrin	<0.002	mg/Kg	SW846 8081	1,1,2,2-Tetrachloroethane	<0.0025	mg/Kg	SW846 8260B
Endosulfan I	<0.002	mg/Kg	SW846 8081	1,1,2-Trichloroethane	<0.0025	mg/Kg	SW846 8260B

Surrogate	Recovery	Method
Dibromofluoromethane	106	SW846 8260B
1,2-Dichloroethane-d4	104	SW846 8260B
Toluene-d8	93	SW846 8260B
4-Bromofluorobenzene	109	SW846 8260B
2-Fluorophenol	93	SW846 8270C
Phenol-d6	101	SW846 8270C
Nitrobenzene-d5	59	SW846 8270C

Surrogate	Recovery	Method
2-Fluorobiphenyl	64	SW846 8270C
2,4,6-Tribromophenol	124	SW846 8270C
p-Terphenyl-d14	77	SW846 8270C
Decachlorobiphenyl	79	SW846 8082

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a14exsur/sgh

SPECTRA Laboratories
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09/17/2008

American Civil Constructors-Hurlen
700 Riverside Drive
Seattle, WA 98108
Attn: Ed Thornton

Project: 1508012
Client ID: Sand
Sample Matrix: Sand
Date Sampled: 09/12/2008
Date Received: 09/12/2008
Spectra Project: 2008090225
Spectra Number: 1
Rush

Analyte	Result	Units	Method	Analyte	Result	Units	Method
1,1-Dichloroethane	<0.0025	mg/Kg	SW846 8260B	2-Hexanone (MBK)	<0.010	mg/Kg	SW846 8260B
1,1-Dichloroethene	<0.0025	mg/Kg	SW846 8260B	4-Chlorotoluene	<0.0025	mg/Kg	SW846 8260B
1,1-Dichloropropene	<0.0025	mg/Kg	SW846 8260B	4-Isopropyltoluene	<0.0025	mg/Kg	SW846 8260B
1,2,3-Trichlorobenzene	<0.0025	mg/Kg	SW846 8260B	4-methyl-2-pentanone (MIBK)	<0.010	mg/Kg	SW846 8260B
1,2,3-Trichloropropane	<0.0025	mg/Kg	SW846 8260B	Acetone	<0.010	mg/Kg	SW846 8260B
1,2,4-Trichlorobenzene	<0.0025	mg/Kg	SW846 8260B	Acrolein	<0.010	mg/Kg	SW846 8260B
1,2,4-Trimethylbenzene	<0.0025	mg/Kg	SW846 8260B	Acrylonitrile	<0.010	mg/Kg	SW846 8260B
1,2-Dibromo3Chloropropane	<0.010	mg/Kg	SW846 8260B	Benzene	<0.0025	mg/Kg	SW846 8260B
1,2-Dibromoethane (EDB)	<0.0025	mg/Kg	SW846 8260B	Bromobenzene	<0.0025	mg/Kg	SW846 8260B
1,2-Dichlorobenzene	<0.0025	mg/Kg	SW846 8260B	Bromochloromethane	<0.0025	mg/Kg	SW846 8260B
1,2-Dichloroethane	<0.0025	mg/Kg	SW846 8260B	Bromodichloromethane	<0.0025	mg/Kg	SW846 8260B
1,2-Dichloropropane	<0.0025	mg/Kg	SW846 8260B	Bromoform	<0.0025	mg/Kg	SW846 8260B
1,3,5-Trimethylbenzene	<0.0025	mg/Kg	SW846 8260B	Bromomethane	<0.0025	mg/Kg	SW846 8260B
1,3-Dichlorobenzene	<0.0025	mg/Kg	SW846 8260B	Carbon Tetrachloride	<0.0025	mg/Kg	SW846 8260B
1,3-Dichloropropane	<0.0025	mg/Kg	SW846 8260B	Chlorobenzene	<0.0025	mg/Kg	SW846 8260B
1,4-Diehlorobenzene	<0.0025	mg/Kg	SW846 8260B	Chlorodibromomethane	<0.0025	mg/Kg	SW846 8260B
2,2-Dichloropropane	<0.0025	mg/Kg	SW846 8260B	Chloroethane	<0.0025	mg/Kg	SW846 8260B
2-Butanone (MEK)	<0.010	mg/Kg	SW846 8260B	Chloroform	<0.0025	mg/Kg	SW846 8260B
2-Chlorotoluene	<0.0025	mg/Kg	SW846 8260B	Chloromethane	<0.0025	mg/Kg	SW846 8260B

Surrogate	Recovery	Method
Dibromofluoromethane	106	SW846 8260B
1,2-Dichloroethane-d4	104	SW846 8260B
Toluene-d8	93	SW846 8260B
4-Bromofluorobenzene	109	SW846 8260B
2-Fluorophenol	93	SW846 8270C
Phenol-d6	101	SW846 8270C
Nitrobenzene-d5	59	SW846 8270C

Surrogate	Recovery	Method
2-Fluorobiphenyl	64	SW846 8270C
2,4,6-Tribromophenol	124	SW846 8270C
p-Terphenyl-d14	77	SW846 8270C
Decachlorobiphenyl	79	SW846 8082

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
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09/17/2008

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700 Riverside Drive
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Project: 1508012
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Analyte	Result	Units	Method	Analyte	Result	Units	Method
Dibromomethane	<0.0025	mg/Kg	SW846 8260B	n-Propylbenzene	<0.0025	mg/Kg	SW846 8260B
Dichlorodifluoromethane	<0.0025	mg/Kg	SW846 8260B	sec-Butylbenzene	<0.0025	mg/Kg	SW846 8260B
Ethylbenzene	<0.0025	mg/Kg	SW846 8260B	tert-Butylbenzene	<0.0025	mg/Kg	SW846 8260B
Hexachlorobutadiene	<0.0025	mg/Kg	SW846 8260B	trans-1,2-Dichloroethene	<0.0025	mg/Kg	SW846 8260B
Isopropylbenzene	<0.0025	mg/Kg	SW846 8260B	trans-1,3-Dichloropropene	<0.0025	mg/Kg	SW846 8260B
Methyl-tert-Butyl Ether	<0.0025	mg/Kg	SW846 8260B	1,2,4-Trichlorobenzene--SIM	<0.003	mg/Kg	SW846 8270C
Methylene chloride	<0.010	mg/Kg	SW846 8260B	1,2-Dichlorobenzene--SIM	<0.003	mg/Kg	SW846 8270C
Naphthalene	<0.0025	mg/Kg	SW846 8260B	1,3-Dichlorobenzene--SIM	<0.003	mg/Kg	SW846 8270C
Styrene	<0.0025	mg/Kg	SW846 8260B	1,4-Dichlorobenzene--SIM	<0.003	mg/Kg	SW846 8270C
Tetrachloroethene	<0.0025	mg/Kg	SW846 8260B	2,4,5-Trichlorophenol	<0.08	mg/Kg	SW846 8270C
Toluene	<0.0025	mg/Kg	SW846 8260B	2,4,6-Trichlorophenol	<0.08	mg/Kg	SW846 8270C
Total Xylenes	<0.005	mg/Kg	SW846 8260B	2,4-Dichlorophenol	<0.08	mg/Kg	SW846 8270C
Trichloroethene	<0.0025	mg/Kg	SW846 8260B	2,4-Dimethylphenol--SIM	<0.003	mg/Kg	SW846 8270C
Trichlorofluoromethane	<0.0025	mg/Kg	SW846 8260B	2,4-Dinitrophenol	<0.33	mg/Kg	SW846 8270C
Vinyl Acetate	<0.010	mg/Kg	SW846 8260B	2,4-Dinitrotoluene	<0.08	mg/Kg	SW846 8270C
Vinyl chloride	<0.0025	mg/Kg	SW846 8260B	2,6-Dinitrotoluene	<0.08	mg/Kg	SW846 8270C
cis-1,2-Dichloroethene	<0.0025	mg/Kg	SW846 8260B	2-Chloronaphthalene	<0.08	mg/Kg	SW846 8270C
cis-1,3-Dichloropropene	<0.0025	mg/Kg	SW846 8260B	2-Chlorophenol	<0.08	mg/Kg	SW846 8270C
n-Butylbenzene	<0.0025	mg/Kg	SW846 8260B	2-Methylnaphthalene	<0.033	mg/Kg	SW846 8270C

Surrogate	Recovery	Method
Dibromofluoromethane	106	SW846 8260B
1,2-Dichloroethane-d4	104	SW846 8260B
Toluene-d8	93	SW846 8260B
4-Bromofluorobenzene	109	SW846 8260B
2-Fluorophenol	93	SW846 8270C
Phenol-d6	101	SW846 8270C
Nitrobenzene-d5	59	SW846 8270C

Surrogate	Recovery	Method
2-Fluorobiphenyl	64	SW846 8270C
2,4,6-Tribromophenol	124	SW846 8270C
p-Terphenyl-d14	77	SW846 8270C
Decachlorobiphenyl	79	SW846 8082

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700 Riverside Drive
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Attn: Ed Thornton

Project: 1508012
Client ID: Sand
Sample Matrix: Sand
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Date Received: 09/12/2008
Spectra Project: 2008090225
Spectra Number: 1
Rush

Analyte	Result	Units	Method	Analyte	Result	Units	Method
2-Methylphenol--SIM	<0.003	mg/Kg	SW846 8270C	Benzo(a)Anthracene	<0.033	mg/Kg	SW846 8270C
2-Nitroaniline	<0.08	mg/Kg	SW846 8270C	Benzo(a)Pyrene	<0.033	mg/Kg	SW846 8270C
2-Nitrophenol	<0.08	mg/Kg	SW846 8270C	Benzo(b)Fluoranthene	<0.033	mg/Kg	SW846 8270C
3,3-Dichlorobenzidine	<0.66	mg/Kg	SW846 8270C	Benzo(ghi)Perylene	<0.033	mg/Kg	SW846 8270C
3-Nitroaniline	<0.08	mg/Kg	SW846 8270C	Benzo(k)Fluoranthene	<0.033	mg/Kg	SW846 8270C
4,6-Dinitro-2-Methylphenol	<0.33	mg/Kg	SW846 8270C	Benzoic Acid	<0.33	mg/Kg	SW846 8270C
4-Bromophenyl-phenylether	<0.08	mg/Kg	SW846 8270C	Benzyl Alcohol--SIM	<0.003	mg/Kg	SW846 8270C
4-Chloro-3-Methylphenol	<0.08	mg/Kg	SW846 8270C	Biphenyl	<0.08	mg/Kg	SW846 8270C
4-Chloroaniline	<0.33	mg/Kg	SW846 8270C	Bis(2-Chloroethyl)Ether	<0.08	mg/Kg	SW846 8270C
4-Chlorophenyl-phenylether	<0.08	mg/Kg	SW846 8270C	Butylbenzylphthalate	<0.08	mg/Kg	SW846 8270C
4-Methylphenol--SIM	<0.003	mg/Kg	SW846 8270C	Carbazole	<0.08	mg/Kg	SW846 8270C
4-Nitroaniline	<0.08	mg/Kg	SW846 8270C	Chrysene	<0.033	mg/Kg	SW846 8270C
4-Nitrophenol	<0.08	mg/Kg	SW846 8270C	Di-n-Butylphthalate	<0.08	mg/Kg	SW846 8270C
Acenaphthene	<0.033	mg/Kg	SW846 8270C	Di-n-Octyl Phthalate	<0.08	mg/Kg	SW846 8270C
Acenaphthylene	<0.033	mg/Kg	SW846 8270C	Dibenz(a,h)Anthracene	<0.033	mg/Kg	SW846 8270C
Aniline	<0.66	mg/Kg	SW846 8270C	Dibenzofuran	<0.08	mg/Kg	SW846 8270C
Anthracene	<0.033	mg/Kg	SW846 8270C	Dibenzothiophene	<0.08	mg/Kg	SW846 8270C
Azobenzene	<0.08	mg/Kg	SW846 8270C	Diethylphthalate--SIM	0.004	mg/Kg	SW846 8270C
Benzidine	<0.66	mg/Kg	SW846 8270C	Dimethyl Phthalate--SIM	<0.003	mg/Kg	SW846 8270C

Surrogate	Recovery	Method
Dibromofluoromethane	106	SW846 8260B
1,2-Dichloroethane-d4	104	SW846 8260B
Toluene-d8	93	SW846 8260B
4-Bromofluorobenzene	109	SW846 8260B
2-Fluorophenol	93	SW846 8270C
Phenol-d6	101	SW846 8270C
Nitrobenzene-d5	59	SW846 8270C

Surrogate	Recovery	Method
2-Fluorobiphenyl	64	SW846 8270C
2,4,6-Tribromophenol	124	SW846 8270C
p-Terphenyl-d14	77	SW846 8270C
Decachlorobiphenyl	79	SW846 8082

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09/17/2008

American Civil Constructors-Hurlen
700 Riverside Drive
Seattle, WA 98108
Attn: Ed Thornton

Project: 1508012
Client ID: Sand
Sample Matrix: Sand
Date Sampled: 09/12/2008
Date Received: 09/12/2008
Spectra Project: 2008090225
Spectra Number: 1
Rush

Analyte	Result	Units	Method
Fluoranthene	<0.033	mg/Kg	SW846 8270C
Fluorene	<0.033	mg/Kg	SW846 8270C
Hexachlorobenzene--SIM	<0.003	mg/Kg	SW846 8270C
Hexachlorobutadiene--SIM	<0.003	mg/Kg	SW846 8270C
Hexachlorocyclopentadiene	<0.08	mg/Kg	SW846 8270C
Hexachloroethane	<0.08	mg/Kg	SW846 8270C
Indeno(1,2,3-cd)Pyrene	<0.033	mg/Kg	SW846 8270C
Isophorone	<0.08	mg/Kg	SW846 8270C
N-Nitroso-Di-n-Propylamine	<0.08	mg/Kg	SW846 8270C
N-Nitrosodiphenylamine--SIM	<0.003	mg/Kg	SW846 8270C
N-nitrosodimethylamine	<0.08	mg/Kg	SW846 8270C
Naphthalene	<0.033	mg/Kg	SW846 8270C
Nitrobenzene	<0.08	mg/Kg	SW846 8270C
Pentachlorophenol	<0.08	mg/Kg	SW846 8270C
Phenanthrene	<0.033	mg/Kg	SW846 8270C
Phenol	<0.08	mg/Kg	SW846 8270C
Pyrene	<0.033	mg/Kg	SW846 8270C
Pyridine	<0.66	mg/Kg	SW846 8270C
Tetrachlorophenol	<0.08	mg/Kg	SW846 8270C

Analyte	Result	Units	Method
bis(2-Chloroethoxy)Methane	<0.08	mg/Kg	SW846 8270C
bis(2-Ethylhexyl)Phthalate	<0.08	mg/Kg	SW846 8270C
bis(2-chloroisopropyl)Ether	<0.08	mg/Kg	SW846 8270C
Total Organic Carbon	370	mg/Kg	SW846 9060

.000370

Surrogate	Recovery	Method
Dibromofluoromethane	106	SW846 8260B
1,2-Dichloroethane-d4	104	SW846 8260B
Toluene-d8	93	SW846 8260B
4-Bromofluorobenzene	109	SW846 8260B
2-Fluorophenol	93	SW846 8270C
Phenol-d6	101	SW846 8270C
Nitrobenzene-d5	59	SW846 8270C

Surrogate	Recovery	Method
2-Fluorobiphenyl	64	SW846 8270C
2,4,6-Tribromophenol	124	SW846 8270C
p-Terphenyl-d14	77	SW846 8270C
Decachlorobiphenyl	79	SW846 8082

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09/17/2008

American Civil Constructors-Hurlen
700 Riverside Drive
Seattle, WA 98108
Attn: Ed Thornton

Project: 1508012
Client ID: Habitat Mix
Sample Matrix: Soil
Date Sampled: 09/12/2008
Date Received: 09/12/2008
Spectra Project: 2008090225
Spectra Number: 2
Rush

Analyte	Result	Units	Method	Analyte	Result	Units	Method
Total Antimony	< 3	mg/Kg	SW846 6010B	Endosulfan II	<0.002	mg/Kg	SW846 8081
Total Arsenic	< 5	mg/Kg	SW846 6010B	Endosulfan Sulfate	<0.002	mg/Kg	SW846 8081
Total Beryllium	< 0.1	mg/Kg	SW846 6010B	Endrin	<0.002	mg/Kg	SW846 8081
Total Cadmium	< 0.3	mg/Kg	SW846 6010B	Endrin Aldehyde	<0.002	mg/Kg	SW846 8081
Total Chromium	19	mg/Kg	SW846 6010B	Endrin Ketone	<0.002	mg/Kg	SW846 8081
Total Copper	17	mg/Kg	SW846 6010B	Heptachlor	<0.002	mg/Kg	SW846 8081
Total Lead	< 4	mg/Kg	SW846 6010B	Heptachlor Epoxide	<0.002	mg/Kg	SW846 8081
Total Nickel	12	mg/Kg	SW846 6010B	Methoxychlor	<0.002	mg/Kg	SW846 8081
Total Selenium	< 8	mg/Kg	SW846 6010B	alpha-BHC	<0.002	mg/Kg	SW846 8081
Total Silver	< 0.7	mg/Kg	SW846 6010B	alpha-Chlordane	<0.002	mg/Kg	SW846 8081
Total Thallium	< 4	mg/Kg	SW846 6010B	beta-BHC	<0.002	mg/Kg	SW846 8081
Total Zinc	31	mg/Kg	SW846 6010B	delta-BHC	<0.002	mg/Kg	SW846 8081
Total Mercury	< 0.05	mg/Kg	SW846 7471B	gamma-BHC (Lindane)	<0.002	mg/Kg	SW846 8081
4,4-DDD	<0.002	mg/Kg	SW846 8081	gamma-Chlordane	<0.002	mg/Kg	SW846 8081
4,4-DDE	<0.002	mg/Kg	SW846 8081	PCB	<0.01	mg/Kg	SW846 8082
4,4-DDT	<0.002	mg/Kg	SW846 8081	1,1,1,2-Tetrachloroethane	<0.0025	mg/Kg	SW846 8260B
Aldrin	<0.002	mg/Kg	SW846 8081	1,1,1-Trichloroethane	<0.0025	mg/Kg	SW846 8260B
Dieldrin	<0.002	mg/Kg	SW846 8081	1,1,2,2-Tetrachloroethane	<0.0025	mg/Kg	SW846 8260B
Endosulfan I	<0.002	mg/Kg	SW846 8081	1,1,2-Trichloroethane	<0.0025	mg/Kg	SW846 8260B

Surrogate	Recovery	Method
Dibromofluoromethane	109	SW846 8260B
1,2-Dichloroethane-d4	101	SW846 8260B
Toluene-d8	93	SW846 8260B
4-Bromofluorobenzene	117	SW846 8260B
2-Fluorophenol	72	SW846 8270C
Phenol-d6	79	SW846 8270C
Nitrobenzene-d5	65	SW846 8270C

Surrogate	Recovery	Method
2-Fluorobiphenyl	70	SW846 8270C
2,4,6-Tribromophenol	92	SW846 8270C
p-Terphenyl-d14	77	SW846 8270C
Decachlorobiphenyl	90	SW846 8082

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Spectra Project: 2008090225
Spectra Number: 2
Rush

Analyte	Result	Units	Method	Analyte	Result	Units	Method
1,1-Dichloroethane	<0.0025	mg/Kg	SW846 8260B	2-Hexanone (MBK)	<0.010	mg/Kg	SW846 8260B
1,1-Dichloroethene	<0.0025	mg/Kg	SW846 8260B	4-Chlorotoluene	<0.0025	mg/Kg	SW846 8260B
1,1-Dichloropropene	<0.0025	mg/Kg	SW846 8260B	4-Isopropyltoluene	<0.0025	mg/Kg	SW846 8260B
1,2,3-Trichlorobenzene	<0.0025	mg/Kg	SW846 8260B	4-methyl-2-pentanone (MIBK)	<0.010	mg/Kg	SW846 8260B
1,2,3-Trichloropropane	<0.0025	mg/Kg	SW846 8260B	Acetone	<0.010	mg/Kg	SW846 8260B
1,2,4-Trichlorobenzene	<0.0025	mg/Kg	SW846 8260B	Acrolein	<0.010	mg/Kg	SW846 8260B
1,2,4-Trimethylbenzene	<0.0025	mg/Kg	SW846 8260B	Acrylonitrile	<0.010	mg/Kg	SW846 8260B
1,2-Dibromo3Chloropropane	<0.010	mg/Kg	SW846 8260B	Benzene	<0.0025	mg/Kg	SW846 8260B
1,2-Dibromoethane (EDB)	<0.0025	mg/Kg	SW846 8260B	Bromobenzene	<0.0025	mg/Kg	SW846 8260B
1,2-Dichlorobenzene	<0.0025	mg/Kg	SW846 8260B	Bromochloromethane	<0.0025	mg/Kg	SW846 8260B
1,2-Dichloroethane	<0.0025	mg/Kg	SW846 8260B	Bromodichloromethane	<0.0025	mg/Kg	SW846 8260B
1,2-Dichloropropane	<0.0025	mg/Kg	SW846 8260B	Bromoform	<0.0025	mg/Kg	SW846 8260B
1,3,5-Trimethylbenzene	<0.0025	mg/Kg	SW846 8260B	Bromomethane	<0.0025	mg/Kg	SW846 8260B
1,3-Dichlorobenzene	<0.0025	mg/Kg	SW846 8260B	Carbon Tetrachloride	<0.0025	mg/Kg	SW846 8260B
1,3-Dichloropropane	<0.0025	mg/Kg	SW846 8260B	Chlorobenzene	<0.0025	mg/Kg	SW846 8260B
1,4-Dichlorobenzene	<0.0025	mg/Kg	SW846 8260B	Chlorodibromomethane	<0.0025	mg/Kg	SW846 8260B
2,2-Dichloropropane	<0.0025	mg/Kg	SW846 8260B	Chloroethane	<0.0025	mg/Kg	SW846 8260B
2-Butanone (MEK)	<0.010	mg/Kg	SW846 8260B	Chloroform	<0.0025	mg/Kg	SW846 8260B
2-Chlorotoluene	<0.0025	mg/Kg	SW846 8260B	Chloromethane	<0.0025	mg/Kg	SW846 8260B

Surrogate	Recovery	Method
Dibromofluoromethane	109	SW846 8260B
1,2-Dichloroethane-d4	101	SW846 8260B
Toluene-d8	93	SW846 8260B
4-Bromofluorobenzene	117	SW846 8260B
2-Fluorophenol	72	SW846 8270C
Phenol-d6	79	SW846 8270C
Nitrobenzene-d5	65	SW846 8270C

Surrogate	Recovery	Method
2-Fluorobiphenyl	70	SW846 8270C
2,4,6-Tribromophenol	92	SW846 8270C
p-Terphenyl-d14	77	SW846 8270C
Decachlorobiphenyl	90	SW846 8082

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Spectra Project: 2008090225
Spectra Number: 2
Rush

Analyte	Result	Units	Method	Analyte	Result	Units	Method
Dibromomethane	<0.0025	mg/Kg	SW846 8260B	n-Propylbenzene	<0.0025	mg/Kg	SW846 8260B
Dichlorodifluoromethane	<0.0025	mg/Kg	SW846 8260B	sec-Butylbenzene	<0.0025	mg/Kg	SW846 8260B
Ethylbenzene	<0.0025	mg/Kg	SW846 8260B	tert-Butylbenzene	<0.0025	mg/Kg	SW846 8260B
Hexachlorobutadiene	<0.0025	mg/Kg	SW846 8260B	trans-1,2-Dichloroethene	<0.0025	mg/Kg	SW846 8260B
Isopropylbenzene	<0.0025	mg/Kg	SW846 8260B	trans-1,3-Dichloropropene	<0.0025	mg/Kg	SW846 8260B
Methyl-tert-Butyl Ether	<0.0025	mg/Kg	SW846 8260B	1,2,4-Trichlorobenzene--SIM	<0.003	mg/Kg	SW846 8270C
Methylene chloride	<0.010	mg/Kg	SW846 8260B	1,2-Dichlorobenzene--SIM	<0.003	mg/Kg	SW846 8270C
Naphthalene	<0.0025	mg/Kg	SW846 8260B	1,3-Dichlorobenzene--SIM	<0.003	mg/Kg	SW846 8270C
Styrene	<0.0025	mg/Kg	SW846 8260B	1,4-Dichlorobenzene--SIM	<0.003	mg/Kg	SW846 8270C
Tetrachloroethene	<0.0025	mg/Kg	SW846 8260B	2,4,5-Trichlorophenol	<0.08	mg/Kg	SW846 8270C
Toluene	<0.0025	mg/Kg	SW846 8260B	2,4,6-Trichlorophenol	<0.08	mg/Kg	SW846 8270C
Total Xylenes	<0.005	mg/Kg	SW846 8260B	2,4-Dichlorophenol	<0.08	mg/Kg	SW846 8270C
Trichloroethene	<0.0025	mg/Kg	SW846 8260B	2,4-Dimethylphenol--SIM	<0.003	mg/Kg	SW846 8270C
Trichlorofluoromethane	<0.0025	mg/Kg	SW846 8260B	2,4-Dinitrophenol	<0.33	mg/Kg	SW846 8270C
Vinyl Acetate	<0.010	mg/Kg	SW846 8260B	2,4-Dinitrotoluene	<0.08	mg/Kg	SW846 8270C
Vinyl chloride	<0.0025	mg/Kg	SW846 8260B	2,6-Dinitrotoluene	<0.08	mg/Kg	SW846 8270C
cis-1,2-Dichloroethene	<0.0025	mg/Kg	SW846 8260B	2-Chloronaphthalene	<0.08	mg/Kg	SW846 8270C
cis-1,3-Dichloropropene	<0.0025	mg/Kg	SW846 8260B	2-Chlorophenol	<0.08	mg/Kg	SW846 8270C
n-Butylbenzene	<0.0025	mg/Kg	SW846 8260B	2-Methylnaphthalene	<0.033	mg/Kg	SW846 8270C

Surrogate	Recovery	Method
Dibromofluoromethane	109	SW846 8260B
1,2-Dichloroethane-d4	101	SW846 8260B
Toluene-d8	93	SW846 8260B
4-Bromofluorobenzene	117	SW846 8260B
2-Fluorophenol	72	SW846 8270C
Phenol-d6	79	SW846 8270C
Nitrobenzene-d5	65	SW846 8270C

Surrogate	Recovery	Method
2-Fluorobiphenyl	70	SW846 8270C
2,4,6-Tribromophenol	92	SW846 8270C
p-Terphenyl-d14	77	SW846 8270C
Decachlorobiphenyl	90	SW846 8082

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a14exsur/sgh

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09/17/2008

American Civil Constructors-Hurlen
700 Riverside Drive
Seattle, WA 98108
Attn: Ed Thornton

Project: 1508012
Client ID: Habitat Mix
Sample Matrix: Soil
Date Sampled: 09/12/2008
Date Received: 09/12/2008
Spectra Project: 2008090225
Spectra Number: 2
Rush

Analyte	Result	Units	Method	Analyte	Result	Units	Method
2-Methylphenol--SIM	<0.003	mg/Kg	SW846 8270C	Benzo(a)Anthracene	<0.033	mg/Kg	SW846 8270C
2-Nitroaniline	<0.08	mg/Kg	SW846 8270C	Benzo(a)Pyrene	<0.033	mg/Kg	SW846 8270C
2-Nitrophenol	<0.08	mg/Kg	SW846 8270C	Benzo(b)Fluoranthene	<0.033	mg/Kg	SW846 8270C
3,3-Dichlorobenzidine	<0.66	mg/Kg	SW846 8270C	Benzo(ghi)Perylene	<0.033	mg/Kg	SW846 8270C
3-Nitroaniline	<0.08	mg/Kg	SW846 8270C	Benzo(k)Fluoranthene	<0.033	mg/Kg	SW846 8270C
4,6-Dinitro-2-Methylphenol	<0.33	mg/Kg	SW846 8270C	Benzoic Acid	<0.33	mg/Kg	SW846 8270C
4-Bromophenyl-phenylether	<0.08	mg/Kg	SW846 8270C	Benzyl Alcohol--SIM	<0.003	mg/Kg	SW846 8270C
4-Chloro-3-Methylphenol	<0.08	mg/Kg	SW846 8270C	Biphenyl	<0.08	mg/Kg	SW846 8270C
4-Chloroaniline	<0.33	mg/Kg	SW846 8270C	Bis(2-Chloroethyl)Ether	<0.08	mg/Kg	SW846 8270C
4-Chlorophenyl-phenylether	<0.08	mg/Kg	SW846 8270C	Butylbenzylphthalate	<0.08	mg/Kg	SW846 8270C
4-Methylphenol--SIM	<0.003	mg/Kg	SW846 8270C	Carbazole	<0.08	mg/Kg	SW846 8270C
4-Nitroaniline	<0.08	mg/Kg	SW846 8270C	Chrysene	<0.033	mg/Kg	SW846 8270C
4-Nitrophenol	<0.08	mg/Kg	SW846 8270C	Di-n-Butylphthalate	<0.08	mg/Kg	SW846 8270C
Acenaphthene	<0.033	mg/Kg	SW846 8270C	Di-n-Octyl Phthalate	<0.08	mg/Kg	SW846 8270C
Acenaphthylene	<0.033	mg/Kg	SW846 8270C	Dibenz(a,h)Anthracene	<0.033	mg/Kg	SW846 8270C
Aniline	<0.66	mg/Kg	SW846 8270C	Dibenzofuran	<0.08	mg/Kg	SW846 8270C
Anthracene	<0.033	mg/Kg	SW846 8270C	Dibenzothiophene	<0.08	mg/Kg	SW846 8270C
Azobenzene	<0.08	mg/Kg	SW846 8270C	Diethylphthalate--SIM	<0.003	mg/Kg	SW846 8270C
Benzidine	<0.66	mg/Kg	SW846 8270C	Dimethyl Phthalate--SIM	<0.003	mg/Kg	SW846 8270C

Surrogate	Recovery	Method
Dibromofluoromethane	109	SW846 8260B
1,2-Dichloroethane-d4	101	SW846 8260B
Toluene-d8	93	SW846 8260B
4-Bromofluorobenzene	117	SW846 8260B
2-Fluorophenol	72	SW846 8270C
Phenol-d6	79	SW846 8270C
Nitrobenzene-d5	65	SW846 8270C

Surrogate	Recovery	Method
2-Fluorobiphenyl	70	SW846 8270C
2,4,6-Tribromophenol	92	SW846 8270C
p-Terphenyl-d14	77	SW846 8270C
Decachlorobiphenyl	90	SW846 8082

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Steve Hibbs, Laboratory Manager
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09/17/2008

American Civil Constructors-Hurlen
700 Riverside Drive
Seattle, WA 98108
Attn: Ed Thornton

Project: 1508012
Client ID: Habitat Mix
Sample Matrix: Soil
Date Sampled: 09/12/2008
Date Received: 09/12/2008
Spectra Project: 2008090225
Spectra Number: 2
Rush

Analyte	Result	Units	Method
Fluoranthene	<0.033	mg/Kg	SW846 8270C
Fluorene	<0.033	mg/Kg	SW846 8270C
Hexachlorobenzene--SIM	<0.003	mg/Kg	SW846 8270C
Hexachlorobutadiene--SIM	<0.003	mg/Kg	SW846 8270C
Hexachlorocyclopentadiene	<0.08	mg/Kg	SW846 8270C
Hexachloroethane	<0.08	mg/Kg	SW846 8270C
Indeno(1,2,3-cd)Pyrene	<0.033	mg/Kg	SW846 8270C
Isophorone	<0.08	mg/Kg	SW846 8270C
N-Nitroso-Di-n-Propylamine	<0.08	mg/Kg	SW846 8270C
N-Nitrosodiphenylamine--SIM	<0.003	mg/Kg	SW846 8270C
N-nitrosodimethylamine	<0.08	mg/Kg	SW846 8270C
Naphthalene	<0.033	mg/Kg	SW846 8270C
Nitrobenzene	<0.08	mg/Kg	SW846 8270C
Pentachlorophenol	<0.08	mg/Kg	SW846 8270C
Phenanthrene	<0.033	mg/Kg	SW846 8270C
Phenol	<0.08	mg/Kg	SW846 8270C
Pyrene	<0.033	mg/Kg	SW846 8270C
Pyridine	<0.66	mg/Kg	SW846 8270C
Tetrachlorophenol	<0.08	mg/Kg	SW846 8270C

Analyte	Result	Units	Method
bis(2-Chloroethoxy)Methane	<0.08	mg/Kg	SW846 8270C
bis(2-Ethylhexyl)Phthalate	<0.08	mg/Kg	SW846 8270C
bis(2-chloroisopropyl)Ether	<0.08	mg/Kg	SW846 8270C
Total Organic Carbon	480	mg/Kg	SW846 9060

Surrogate	Recovery	Method
Dibromofluoromethane	109	SW846 8260B
1,2-Dichloroethane-d4	101	SW846 8260B
Toluene-d8	93	SW846 8260B
4-Bromofluorobenzene	117	SW846 8260B
2-Fluorophenol	72	SW846 8270C
Phenol-d6	79	SW846 8270C
Nitrobenzene-d5	65	SW846 8270C

Surrogate	Recovery	Method
2-Fluorobiphenyl	70	SW846 8270C
2,4,6-Tribromophenol	92	SW846 8270C
p-Terphenyl-d14	77	SW846 8270C
Decachlorobiphenyl	90	SW846 8082

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a14exsur/sgh

SPECTRA Laboratories 200809225

CHAIN of CUSTODY

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PAGE 1 of 1

STANDARD ☐ RUSH ☐

CLIENT: American Civil Constructors - Harten ADDRESS: 700 Riverside Drive Seattle, WA 98108 ADDRESS CHANGE ☐

PROJECT: 1508012

CONTACT: Ed Thornton

PHONE: 206-763-1230 FAX: 206-762-1854

e-MAIL: X2 see below Prefer FAX ☐ or e-MAIL ☒

PURCHASE ORDER #:

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	MATRIX	NUMBER OF CONTAINERS	HYDROCARBONS: NWTPH-HCID	BTEX	BTEX/NWTPH-G	NWTPH-G	NWTPH-Dx	1664 SGT-HEM	1664 HEM	ORGANICS: 8260/624 VOA	8260 CHLOR SOLVENTS	8270/625 SEMI VOA	8270 PAH/PNA	8082/608 PCB	METALS: TOTAL METALS RCRA8	TOTAL METALS (SPECIFY)	TCLP METALS RCRA 8	TCLP METALS (SPECIFY)	OTHERS: Priority Pollutants	pH 9040/9045	TX/TOX 9076	TURBIDITY	FLASH POINT	BOD	SOLIDS (SPECIFY)	Organochlorine Pest+	TOC	Specific Gravity
1	Sand	9-12-08	8:00	Sand	2								X	X	X			X											X	X	X
2	Habitat Mix	9-12-08	8:00		2								X	X	X			X											X	X	X
3																															
4																															
5																															
6																															
7																															
8																															
9																															
0																															

SPECIAL INSTRUCTIONS/COMMENTS:

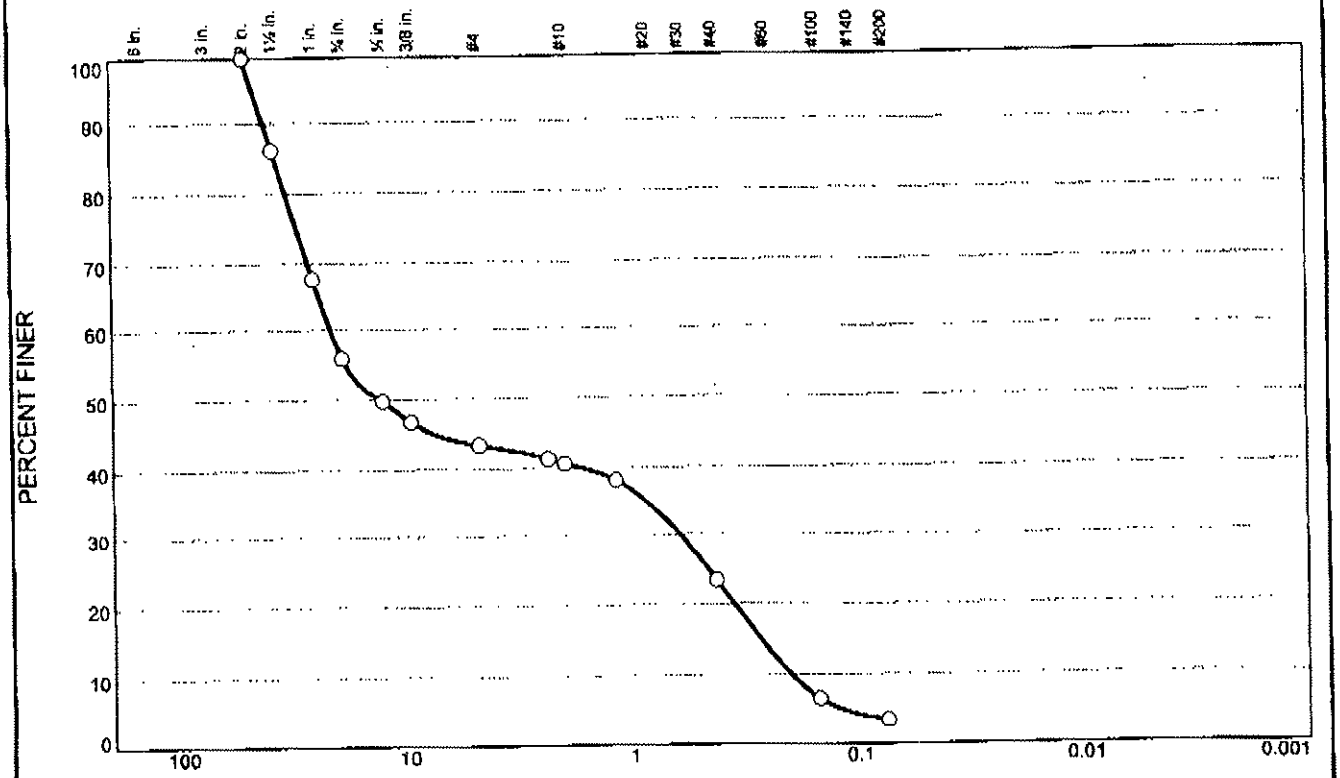
JE Waldner@msn.com
Ethornton@accbuilt.com

	SIGNATURE	PRINTED NAME	COMPANY	DATE	TIME
RELINQUISHED BY	Marie Holt	MARIE HOLT	Spectra	9-12-08	8:20
RECEIVED BY		NICK GEISE	SPECTRA	9/12/08	8:35
RELINQUISHED BY					
RECEIVED BY					

RETURN SAMPLES ☐ DISPOSE SAMPLES ☐ (Shipping Fee Applies)

Payment Terms: Net 30 days. Past due accounts subject to 1½% per month interest. Customer agrees to pay all costs of collection including reasonable attorney's fees and all other costs of collection regardless of whether suit is filed in Pierce Co., WA venue. *Spectra Analytical, Inc.*

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	44.1	12.5	2.7	17.2	20.0	3.5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0 - 100.0	
1 1/2"	86.2	80.0 - 95.0	
1"	67.8		
3/4"	55.9	50.0 - 80.0	
1/2"	49.8		
3/8"	46.8		
#4	43.4	35.0 - 50.0	
#8	41.4		
#10	40.7		
#16	38.2		
#40	23.5		
#100	6.6		
#200	3.5	0.0 - 8.0	

* Surface gravel/Bulkhead habitat mix

Material Description

Habitat mix
Sample D-1

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 41.3019 D_{85}= 37.1266 D_{60}= 21.3372
D_{50}= 12.9768 D_{30}= 0.6128 D_{15}= 0.2698
D_{10}= 0.1987 C_u= 107.40 C_c= 0.09

Classification

USCS= GP AASHTO=

Remarks

Report #: 21

Sampled by: client

Source of Sample: Waller RD. Pit
Sample Number: 8-790

Date: 9/17/08

Construction Testing Laboratories

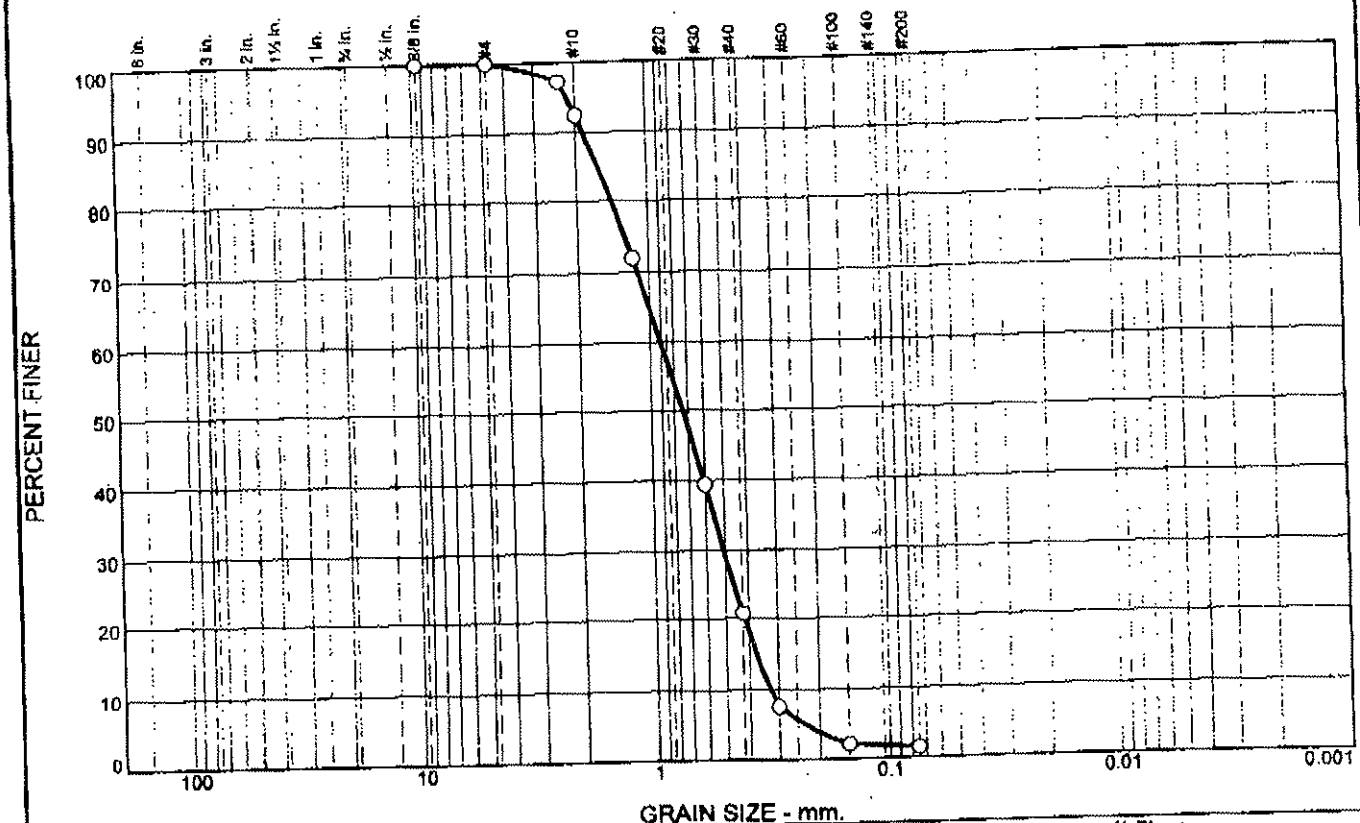
Tacoma, WA

Client: W.M. Dickson Co.
Project: Misc. Testing

Project No: T-3423 **Figure**

Tested By: R Rowden **Checked By:** C Pedersen

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	7.6	71.6	19.3	1.5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/8"	100.0	100.0 - 100.0	
#4	100.0	95.0 - 100.0	
#8	97.2	80.0 - 100.0	
#10	92.4		
#16	72.0	50.0 - 85.0	
#30	39.4	25.0 - 60.0	
#40	20.8		
#50	7.5	5.0 - 30.0	
#100	2.1	0.0 - 10.0	
#200	1.5	0.0 - 3.0	

* ASTM C 33 - Sand

Material Description

Sand (ASTM C-33)

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 1.6238 D_{60}= 0.9029 D_{50}= 0.7346
D_{30}= 0.5062 D_{15}= 0.3741 D_{10}= 0.3269
C_u= 2.76 C_c= 0.87

Classification

USCS= SP AASHTO=

Remarks

Sampled By Client (Stockpile)
Report #02

Sample Number: 8-340
Source of Sample: Waller RD. Pit

Date: 6-05-08

Construction Testing Laboratories

Tacoma, WA

Client: W.M. Dickson Co.
Project: Misc. Testing
Project No: T-3423

Figure

Tested By: R.Rowden **Checked By:** R.Rowden

Table B-1
Confirmatory Sediment Sampling Results

Location Name:			SG-21	SG-22	SMU-2	SMU-2	SMU-2	SMU-2	SMU-2	AG-6
Location ID:			EB-SE01	EB-SE02	EB-SE03	EB-SE03	EB-SE03	EB-SE03	EB-SE04	EB-SE05
Sample ID:			EB-SE01-A-081003	EB-SE02-A-081003	EB-SE03-A-081003	EB-SE03-B-081003	EB-SE-03-Z-081015	EB-SE-03-ZZ-081015	EB-SE04-A-081003	EB-SE05-A-081021
Sample Date:			10/3/2008	10/3/2008	10/3/2008	10/3/2008	10/15/2008	10/15/2008	10/3/2008	10/21/2008
Depth:	SMS SQS	SMS CSL	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	10-20 cm	0-10 cm	0-10 cm
Conventional Parameters (pct)										
Total organic carbon	--	--	--	--	**2.43**	--	--	--	**1.21**	**1.75**
Total solids	--	--	--	--	**53**	--	--	--	**73.2**	**82.9**
Grain Size (pct)										
Clay, Coarse	--	--	--	--	**3.4**	--	--	--	**1**	--
Clay, Fine	--	--	--	--	**8.4**	--	--	--	**3.6**	--
Clay, Medium	--	--	--	--	**3.7**	--	--	--	**1.4**	--
Gravel	--	--	--	--	**1.6**	--	--	--	**7.9**	--
Sand, Coarse	--	--	--	--	**2.6**	--	--	--	**11.7**	--
Sand, Fine	--	--	--	--	**22.6**	--	--	--	**18.4**	--
Sand, Medium	--	--	--	--	**14**	--	--	--	**27.6**	--
Sand, Very Coarse	--	--	--	--	**1.9**	--	--	--	**5.4**	--
Sand, Very Fine	--	--	--	--	**17.3**	--	--	--	**6.9**	--
Silt, Coarse	--	--	--	--	**3.6**	--	--	--	**5.8**	--
Silt, Fine	--	--	--	--	**6.4**	--	--	--	**3**	--
Silt, Medium	--	--	--	--	**10.3**	--	--	--	**5.1**	--
Silt, Very Fine	--	--	--	--	**4.2**	--	--	--	**2.1**	--
Fines (silt + clay)	--	--	--	--	**40**	--	--	--	**22.1**	--
Porewater Butyltins (ug/l)										
Butyltin (ion)	--	--	0.008 U	**0.026**	**0.037**	**0.028**	**0.013**	--	**0.01**	--
Dibutyltin (ion)	--	--	**0.016**	**0.033**	**0.16**	**0.036**	**0.046**	--	**0.014**	--
Tributyltin (ion)	--	--	**0.064**	**0.1**	**0.64**	**0.23**	**0.37**	--	**0.044**	--
Bulk Sediment Butyltins (ug/kg)										
Tributyltin (ion)	--	--	--	--	--	--	**430**	**210**	--	--
Porewater Metals (ug/l)										
Mercury	--	--			--	--	0.1U	--		
Metals (mg/kg)										
Arsenic	57	93	--	--	**6.9**	--	--	**7**	**4.9**	**9**
Cadmium	5.1	6.7	--	--	**1.1**	--	--	**0.4**	**0.55 J**	**0.4**
Chromium	260	270	--	--	**31**	--	--	**22.7**	**19**	**27.4**
Copper	390	390	--	--	**190**	--	**104**	**70.4**	**40**	**84.6**
Lead	450	530	--	--	**77**	--	--	**27**	**16**	**34**
Mercury	0.41	0.59	--	--	**0.47**	--	**0.41**	**0.38**	**0.2**	**0.54**
Silver	6.1	6.1	--	--	1.5 U	--	--	0.4 U	1.3 U	0.4 U
Zinc	410	960	--	--	**130**	--	--	**54**	**41**	**188**
PCB Aroclors (mg/kg-OC)										
Aroclor 1016	--	--	--	--	0.4 U	--	--	--	0.81 U	0.56 U
Aroclor 1221	--	--	--	--	0.4 U	--	--	--	0.81 U	0.56 U
Aroclor 1232	--	--	--	--	0.4 U	--	--	--	0.81 U	0.56 U

Table B-1
Confirmatory Sediment Sampling Results

Location Name:			SG-21	SG-22	SMU-2	SMU-2	SMU-2	SMU-2	SMU-2	AG-6
Location ID:			EB-SE01	EB-SE02	EB-SE03	EB-SE03	EB-SE03	EB-SE03	EB-SE04	EB-SE05
Sample ID:			EB-SE01-A-081003	EB-SE02-A-081003	EB-SE03-A-081003	EB-SE03-B-081003	EB-SE-03-Z-081015	EB-SE-03-ZZ-081015	EB-SE04-A-081003	EB-SE05-A-081021
Sample Date:			10/3/2008	10/3/2008	10/3/2008	10/3/2008	10/15/2008	10/15/2008	10/3/2008	10/21/2008
Depth:	SMS SQS	SMS CSL	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	10-20 cm	0-10 cm	0-10 cm
Aroclor 1242	--	--	--	--	0.4 U	--	--	--	0.81 U	0.56 U
Aroclor 1248	--	--	--	--	**1.2**	--	--	--	**2**	0.56 U
Aroclor 1254	--	--	--	--	**2.6**	--	--	--	**3.1**	**2.3**
Aroclor 1260	--	--	--	--	**0.82**	--	--	--	**0.83**	**1.1**
Total PCB	12	65			**4.62**				**5.93**	**3.4**
Aromatic Hydrocarbons (mg/kg-OC)										
Naphthalene	99	170	--	--	**0.49 J**	--	--	--	**1.7**	--
Acenaphthylene	66	66	--	--	**0.91**	--	--	--	**1.2 J**	--
Acenaphthene	16	57	--	--	**0.66 J**	--	--	--	**2**	--
Fluorene	23	79	--	--	**1.1**	--	--	--	**2.6**	--
Phenanthrene	100	480	--	--	**9.05**	--	--	--	**14**	--
Anthracene	220	1200	--	--	**1.8**	--	--	--	**3**	--
2-Methylnaphthalene	38	64	--	--	0.82 U	--	--	--	**0.99 J**	--
Fluoranthene	160	1200	--	--	**17.3**	--	--	--	**20.7**	--
Pyrene	1000	1400	--	--	**17.3**	--	--	--	**19**	--
Benzo(a)anthracene	110	270	--	--	**7**	--	--	--	**7.1**	--
Chrysene	110	460	--	--	**9.47**	--	--	--	**9.92**	--
Benzo(b)fluoranthene	--	--	--	--	**7.41**	--	--	--	**9.92**	--
Benzo(k)fluoranthene	--	--	--	--	**7.82**	--	--	--	**7.6**	--
Total Benzofluoranthenes (b, j, k)	230	450			**15.23**				**17.52**	
Benzo(a)pyrene	99	210	--	--	**7.82**	--	--	--	**8**	--
Indeno(1,2,3-c,d)pyrene	34	88	--	--	**2.7**	--	--	--	**2.4**	--
Dibenzo(a,h)anthracene	12	33	--	--	**0.86**	--	--	--	**1.2**	--
Benzo(g,h,i)perylene	31	78	--	--	**2.8**	--	--	--	**2.3**	--
Total LPAH	370	780			**14.01**				**24.5**	
Total HPAH	960	5300			**80.48**				**88.14**	
Total PAH	--	--			**94.49**				**112.64**	
Chlorinated Benzenes (mg/kg-OC)										
1,2-Dichlorobenzene	2.3	2.3	--	--	0.25 U	--	--	--	0.48 U	--
1,4-Dichlorobenzene	3.1	9	--	--	0.25 U	--	--	--	0.48 U	--
1,2,4-Trichlorobenzene	0.81	1.8	--	--	0.25 U	--	--	--	0.48 U	--
Hexachlorobenzene	0.38	2.3	--	--	0.25 U	--	--	--	0.48 U	--
Phthalate Esters (mg/kg-OC)										
Dimethyl phthalate	53	53	--	--	**2.1**	--	--	--	**2**	--
Diethyl phthalate	61	110	--	--	0.82 U	--	--	--	1.7 U	--
Di-n-butyl phthalate	220	1700	--	--	**0.99**	--	--	--	1.7 U	--
Butylbenzyl phthalate	4.9	64	--	--	0.62 U	--	--	--	1.2 U	--
Bis(2-ethylhexyl) phthalate	47	78	--	--	**19.8**	--	--	--	**4.5**	--
Di-n-octyl phthalate	58	4500	--	--	0.82 U	--	--	--	1.7 U	--

Table B-1
Confirmatory Sediment Sampling Results

Location Name: Location ID: Sample ID: Sample Date: Depth:	SMS SQS	SMS CSL	SG-21 EB-SE01 EB-SE01-A-081003 10/3/2008 0-10 cm	SG-22 EB-SE02 EB-SE02-A-081003 10/3/2008 0-10 cm	SMU-2 EB-SE03 EB-SE03-A-081003 10/3/2008 0-10 cm	SMU-2 EB-SE03 EB-SE03-B-081003 10/3/2008 0-10 cm	SMU-2 EB-SE03 EB-SE-03-Z-081015 10/15/2008 0-10 cm	SMU-2 EB-SE03 EB-SE-03-ZZ-081015 10/15/2008 10-20 cm	SMU-2 EB-SE04 EB-SE04-A-081003 10/3/2008 0-10 cm	AG-6 EB-SE05 EB-SE05-A-081021 10/21/2008 0-10 cm
Miscellaneous (mg/kg-OC)										
Dibenzofuran	15	58	--	--	0.82 U	--	--	--	**1.4 J**	--
Hexachlorobutadiene	3.9	6.2	--	--	0.25 U	--	--	--	0.48 U	--
N-Nitrosodiphenylamine	11	11	--	--	0.25 U	--	--	--	0.48 U	--
Ionizable Organic Compounds (ug/kg)										
Phenol	420	1200	--	--	20 U	--	--	--	20 U	--
2-Methylphenol (o-Cresol)	63	63	--	--	6 U	--	--	--	5.8 U	--
4-Methylphenol (p-Cresol)	670	670	--	--	20 U	--	--	--	20 U	--
2,4-Dimethylphenol	29	29	--	--	6 U	--	--	--	5.8 U	--
Pentachlorophenol	360	690	--	--	30 U	--	--	--	29 U	--
Benzyl alcohol	57	73	--	--	30 U	--	--	--	29 U	--
Benzoic acid	650	650	--	--	200 U	--	--	--	200 U	--

Notes:
Detected concentration is greater than SMS SQS screening level
Detected concentration is greater than SMS CSL screening level
Detected concentration is greater than 0.15 µg/L
Bold = Detected result
J = Estimated value
U = Compound analyzed, but not detected above detection limit

Table B-1
Confirmatory Sediment Sampling Results

Location Name: Location ID: Sample ID: Sample Date: Depth:	SMS SQS	SMS CSL	Bulkhead Removal EB-SE06 EB-SE06-SE-A-081030 10/30/2008 0-10 cm	Bulkhead Removal EB-SE07 EB-SE07-SE-A-081030 10/30/2008 0-10 cm	SMU-2 EB-SE03 COMPOSITE OF A&C081017 10/16/2008	SMU-2 EB-SE03 EB-SE-03-Z-081015 COMPOSITE 10/16/2008
Conventional Parameters (pct)						
Total organic carbon	--	--	**0.646**	**0.796**		
Total solids	--	--	**69.7**	**72.7**		
Grain Size (pct)						
Clay, Coarse	--	--	--	--		
Clay, Fine	--	--	--	--		
Clay, Medium	--	--	--	--		
Gravel	--	--	--	--		
Sand, Coarse	--	--	--	--		
Sand, Fine	--	--	--	--		
Sand, Medium	--	--	--	--		
Sand, Very Coarse	--	--	--	--		
Sand, Very Fine	--	--	--	--		
Silt, Coarse	--	--	--	--		
Silt, Fine	--	--	--	--		
Silt, Medium	--	--	--	--		
Silt, Very Fine	--	--	--	--		
Fines (silt + clay)	--	--	--	--		
Porewater Butyltins (ug/l)						
Butyltin (ion)	--	--	--	--	**0.013**	
Dibutyltin (ion)	--	--	--	--	**0.046**	
Tributyltin (ion)	--	--	--	--	**0.37**	
Bulk Sediment Butyltins (ug/kg)						
Tributyltin (ion)	--	--	--	--	**0.37**	
Porewater Metals (ug/l)						
Mercury	--	--				0.1 U
Metals (mg/kg)						
Arsenic	57	93	--	--		
Cadmium	5.1	6.7	--	--		
Chromium	260	270	--	--		
Copper	390	390	--	--		
Lead	450	530	--	--		
Mercury	0.41	0.59	--	--		
Silver	6.1	6.1	--	--		
Zinc	410	960	--	--		
PCB Aroclors (mg/kg-OC)						
Aroclor 1016	--	--	--	--		
Aroclor 1221	--	--	--	--		
Aroclor 1232	--	--	--	--		

Table B-1
Confirmatory Sediment Sampling Results

Location Name: Location ID: Sample ID: Sample Date: Depth:	SMS SQS	SMS CSL	Bulkhead Removal EB-SE06 EB-SE06-SE-A-081030 10/30/2008 0-10 cm	Bulkhead Removal EB-SE07 EB-SE07-SE-A-081030 10/30/2008 0-10 cm	SMU-2 EB-SE03 COMPOSITE OF A&C081017 10/16/2008	SMU-2 EB-SE03 EB-SE-03-Z-081015 COMPOSITE 10/16/2008
Aroclor 1242	--	--	--	--		
Aroclor 1248	--	--	--	--		
Aroclor 1254	--	--	--	--		
Aroclor 1260	--	--	--	--		
Total PCB	12	65				
Aromatic Hydrocarbons (mg/kg-OC)						
Naphthalene	99	170	3.1 U	2.5 U		
Acenaphthylene	66	66	3.1 U	**2.1 J**		
Acenaphthene	16	57	3.1 U	2.5 U		
Fluorene	23	79	3.1 U	2.5 U		
Phenanthrene	100	480	**2.6 J**	**4**		
Anthracene	220	1200	**2.6 J**	**3.5**		
2-Methylnaphthalene	38	64	3.1 U	2.5 U		
Fluoranthene	160	1200	**9.1**	**15.1**		
Pyrene	1000	1400	**9.6**	**15.1**		
Benzo(a)anthracene	110	270	**4**	**6**		
Chrysene	110	460	**9.1**	**12**		
Benzo(b)fluoranthene	--	--	**5.7**	**12.6**		
Benzo(k)fluoranthene	--	--	**9.6**	**6.9**		
Total Benzofluoranthenes (b, j, k)	230	450	**15.3**	**19.5**		
Benzo(a)pyrene	99	210	**4.6**	**6.5**		
Indeno(1,2,3-c,d)pyrene	34	88	**2.8 J**	**3.8**		
Dibenzo(a,h)anthracene	12	33	3.1 U	2.5 U		
Benzo(g,h,i)perylene	31	78	**4.5**	**4.9**		
Total LPAH	370	780	**5.2**	**9.6**		
Total HPAH	960	5300	**59**	**82.9**		
Total PAH	--	--	**64.2**	**92.5**		
Chlorinated Benzenes (mg/kg-OC)						
1,2-Dichlorobenzene	2.3	2.3	--	--		
1,4-Dichlorobenzene	3.1	9	--	--		
1,2,4-Trichlorobenzene	0.81	1.8	--	--		
Hexachlorobenzene	0.38	2.3	--	--		
Phthalate Esters (mg/kg-OC)						
Dimethyl phthalate	53	53	--	--		
Diethyl phthalate	61	110	--	--		
Di-n-butyl phthalate	220	1700	--	--		
Butylbenzyl phthalate	4.9	64	--	--		
Bis(2-ethylhexyl) phthalate	47	78	--	--		
Di-n-octyl phthalate	58	4500	--	--		

Table B-1
Confirmatory Sediment Sampling Results

Location Name: Location ID: Sample ID: Sample Date: Depth:	SMS SQS	SMS CSL	Bulkhead Removal EB-SE06 EB-SE06-SE-A-081030 10/30/2008 0-10 cm	Bulkhead Removal EB-SE07 EB-SE07-SE-A-081030 10/30/2008 0-10 cm	SMU-2 EB-SE03 COMPOSITE OF A&C081017 10/16/2008	SMU-2 EB-SE03 EB-SE-03-Z-081015 COMPOSITE 10/16/2008
Miscellaneous (mg/kg-OC)						
Dibenzofuran	15	58	3.1 U	2.5 U		
Hexachlorobutadiene	3.9	6.2	--	--		
N-Nitrosodiphenylamine	11	11	--	--		
Ionizable Organic Compounds (ug/kg)						
Phenol	420	1200	--	--		
2-Methylphenol (o-Cresol)	63	63	--	--		
4-Methylphenol (p-Cresol)	670	670	--	--		
2,4-Dimethylphenol	29	29	--	--		
Pentachlorophenol	360	690	--	--		
Benzyl alcohol	57	73	--	--		
Benzoic acid	650	650	--	--		

Notes:
Detected concentration is greater than SMS SQS screening level
Detected concentration is greater than SMS CSL screening level
Detected concentration is greater than 0.15 µg/L
Bold = Detected result
J = Estimated value
U = Compound analyzed, but not detected above detection limit

ANCHOR ENVIRONMENTAL, L.L.C.
1423 3rd Avenue, Suite 300
Seattle, Washington 98101
Phone 206.287.9130
Fax 206.287.9131
www.anchorenv.com

Water Quality Sample Form – Eddon Boatyard

Activity:Dredging from land to area north of the boathouse. **Date:09-16-08**

Weather Observations: Clear, warm, slight breeze

Current Direction: To North To South (circle one) N/A

Tide: Ebb Flood (circle one)

Station ID	Time	Water Depth	Turbidity Reading (NTU)			Exceedence Yes No
100 ft. bkgrnd	8:16 am	3’	0.91			N/A
150 ft. NE	8:20 am	3’	0.70			No
150 ft. NE	12:35 pm	3’	0.73			No

Water Quality Standard:
Turbidity shall be < 5.0 NTU above background when background is < 50.0 NTU and less than 10% over background when background is > 50.0 NTU.

Stations:
150’ from active work = 100 ft up current station
100’ from dredging = Background Samples

Tides:
12:01 am 1.9 feet
6:03 am 10.5 feet
12:05 pm 2.1 feet
6:12 pm 11.5 feet

Recorded By:_Joseph R. Pursley

ANCHOR ENVIRONMENTAL, L.L.C.
1423 3rd Avenue, Suite 300
Seattle, Washington 98101
Phone 206.287.9130
Fax 206.287.9131
www.anchorenv.com

Water Quality Sample Form – Eddon Boatyard

Activity:Dredging from land at the 0 ft. tide line **Date:09-22-08**

Weather Observations: Partly cloudy, cool, 5-10 mph breeze.

Current Direction: To North To South (circle one) N/A

Tide: Ebb Flood (circle one)

Station ID	Time	Water Depth	Turbidity Reading (NTU)			Exceedence Yes No
100 ft. bkgrnd	10:00 am	3’	0.91			N/A
150 ft. NE	10:15 am	3’	0.83			No
150 ft. NE	2:00 pm	3’	0.75			No

Water Quality Standard:
Turbidity shall be < 5.0 NTU above background when background is < 50.0 NTU and less than 10% over background when background is > 50.0 NTU.

Stations:
150’ from active work = 100 ft up current station
100’ from dredging = Background Samples

Tides:
4.44 am -0.9 feet
12:51 pm 10.2 feet
5.59 pm 7.9 feet
10:31 pm 9.5 feet

Recorded By:_Joseph R. Pursley

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1423 3rd Avenue, Suite 300
Seattle, Washington 98101
Phone 206.287.9130
Fax 206.287.9131
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Water Quality Sample Form – Eddon Boatyard

Activity:Dredging from land at the 0 ft. tide line **Date:09-23-08**

Weather Observations: Partly cloudy, cool, 5-10 mph breeze.

Current Direction: To North To South (circle one) N/A

Tide: Ebb Flood (circle one)

Station ID	Time	Water Depth	Turbidity Reading (NTU)			Exceedence Yes No
100 ft. bkgrnd	10:00 am	3’	0.91			N/A
150 ft. NE	10:15 am	3’	0.83			No
150 ft. NE	2:00 pm	3’	1.25			No

Water Quality Standard:
Turbidity shall be < 5.0 NTU above background when background is < 50.0 NTU and less than 10% over background when background is > 50.0 NTU.

Stations:
150’ from active work = 100 ft up current station
100’ from dredging = Background Samples

Tides:
4.44 am -0.9 feet
12:51 pm 10.2 feet
5.59 pm 7.9 feet
10:31 pm 9.5 feet

Recorded By:_Joseph R. Pursley

ANCHOR ENVIRONMENTAL, L.L.C.
1423 3rd Avenue, Suite 300
Seattle, Washington 98101
Phone 206.287.9130
Fax 206.287.9131
www.anchorenv.com

Water Quality Sample Form – Eddon Boatyard

Activity:Dredging from land and from the water all day
Date:09-24-08

Weather Observations: Partly cloudy, rain showers at times, cool, no wind.

Current Direction: To North To South (circle one) N/A

Tide: Ebb Flood (circle one)

Station ID	Time	Water Depth	Turbidity Reading (NTU)			Exceedence Yes No
100 ft. bkgrnd	7:05 am	3’	0.67			N/A
150 ft. SE	7:15 am	3’	0.93			No
150 ft. SE	11:30 am	3’	1.5			No
150 ft. SE	3:00pm	3’	2.3			No

Water Quality Standard:
Turbidity shall be < 5.0 NTU above background when background is < 50.0 NTU and less than 10% over background when background is > 50.0 NTU.

Stations:
150’ from active work = 100 ft up current station
100’ from dredging = Background Samples

Tides:
4.44 am -0.9 feet
12:51 pm 10.2 feet
5.59 pm 7.9 feet
10:31 pm 9.5 feet

Recorded By:_Joseph R. Pursley

ANCHOR ENVIRONMENTAL, L.L.C.
1423 3rd Avenue, Suite 300
Seattle, Washington 98101
Phone 206.287.9130
Fax 206.287.9131
www.anchorenv.com

Water Quality Sample Form – Eddon Boatyard

Activity:Dredging from land at 7 am and water at 9 am
Date:09-25-08

Weather Observations: Partly cloudy, morning rain,clearing, cool, 5-10 mph breeze.

Current Direction: To North To South (circle one) N/A

Tide: Ebb Flood (circle one)

Station ID	Time	Water Depth	Turbidity Reading (NTU)			Exceedence Yes No
100 ft. bkgrnd	7:20 am	3’	0.56			N/A
150 ft. SE	7:25 am	3’	1.11			No
150 ft. NE	0:00 pm	3’				

Water Quality Standard:
Turbidity shall be < 5.0 NTU above background when background is < 50.0 NTU and less than 10% over background when background is > 50.0 NTU.

Stations:
150’ from active work = 100 ft up current station
100’ from dredging = Background Samples

Tides:
1:29 am 9.0 feet
8:15 am 0.0 feet
3:50 pm 11.1 feet
9:42 pm 5.0 feet

Recorded By:_Joseph R. Pursley

HACH 2100p PORTABLE TURBIDIMETER
CALIBRATION WEEKLY WORKSHEET

PROJECT: Eddon boatyard WQ Monitoring PROJECT #:

WEEK BEGINNING:

			WEEKLY TURBIDITY CALIBRATION CHECK							
Calib by:	Date	Time (24 Hr)	Initial 0 NTU	Final 0 NTU	Initial 20 NTU	Final 20 NTU	Initial 100 NTU	Final 100 NTU	Initial 800 NTU	Final 800 NTU
JRP	9/16/2008	7:20	0.12	0.22	20.2	19.9	101	98.9	801	801

Turbidity Daily Calibration Check						
Date	Times	Unit	Lot Number	Pre-Sampling (NTU)	Post-Sampling (NTU)	Within Range?*
9/16/2008	8:10:00 AM	0-10 NTU	24641-05	4.96	4.95	Yes
9/22/2008	10:00:00 AM	0-10 NTU	24641-05	4.91	4.91	Yes
9/23/2008	8:00:00 AM	0-10 NTU	24641-01	4.96	4.8	Yes

NOTES:

*Within range is +- 0.5 NTU of 5 NTU

APPENDIX C
MATERIAL MANAGEMENT

CWMI

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
WAH000033829	1	(800)424-9300	**001823161 JJK**

GENERATOR

5. Generator's Name and Mailing Address
CITY OF GIG HARBOR
3711 AND 3805 HARBORVIEW DR.
GIG HARBOR WA 98335
Generator's Phone: (253)737-1059

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: VEOLIA ES TECHNICAL SOLUTIONS — U.S. EPA ID Number: NJD080631369

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWMNW, INC.
17629 CEDAR SPRINGS LANE
ARLINGTON OR 97812-9709
Facility's Phone: (541)454-2643
U.S. EPA ID Number: ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ,NA3077,HAZARDOUS WASTE,SOLID,N.O.S,9,III, (LEAD)	007	CF	[illegible]	P	D008
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1 OR300564,EDDON BOATPARK SEDIMENT, ERG# 171; (RQ=10LBS)

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: [illegible handwriting] — Signature: [signature] — Month 11 Day 10 Year 08

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible handwriting] — Signature: [signature] — Month 11 Day 10 Year 08
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name — Signature — Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. **GENERATOR'S INITIAL COPY**

WASTE MANAGEMENT

CHEMICAL WASTE MANAGEMENT OF THE NW
17629 Cedar Springs Lane
Arlington, OR 97812
(541) 454-2643
(541) 454-3279 Fax

CITY OF GIG HARBOR
WAH000033828
3711 AND 3805 HARBORVIEW DR
GIG HARBOR WA 98335

CERTIFICATE OF DISPOSAL

Chemical Waste Management of the Northwest, Inc., ORD089452353, has received the following waste material:

GENERATOR:	CITY OF GIG HARBOR
MANIFEST #:	001823161JJK
CWM TRACKING ID:	399821-01
PROFILE#:	OR300564
LINE ITEM:	9b.1
QUANTITY:	7 CF
RECEIVED DATE:	11/17/08
DISPOSAL PROCESS(ES):	STABILIZATION FOLLOWED BY LANDFILL
FINAL DISPOSAL LOCATION:	LANDFILL 14
DISPOSAL DATE:	11/20/08

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste material was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

Julie Mikkal

CWMNW RECORDS DEPARTMENT
Date: 12/15/08

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 580-11066-2

Job Description: EDDON 3510 Grandview

For:
American Civil Constructors
700 S. Riverside Drive
PO BOX 80945
Seattle, WA 98108

Attention: Ed Thornton

Ivy J Bolm
Project Manager I
ivy.bolm@testamericainc.com
09/04/2008

cc: Tim Miller

TestAmerica Tacoma is a part of TestAmerica Laboratories, Inc.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted in the case narrative.

METHOD SUMMARY

Client: American Civil Constructors Job Number: 580-11066-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL TAC	SW846 6010B	
TCLP Extraction	TAL TAC		SW846 1311
Preparation, Total Metals	TAL TAC		SW846 3010A

Lab References:

TAL TAC = TestAmerica Tacoma

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: American Civil Constructors Job Number: 580-11066-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
580-11066-7	HB4A	Solid	08/25/2008 0000	08/26/2008 1110
580-11066-8	HB4B	Solid	08/25/2008 0000	08/26/2008 1110
580-11066-9	HB4C	Solid	08/25/2008 0000	08/26/2008 1110
580-11066-15	HB5A	Solid	08/26/2008 0000	08/26/2008 1110

Client: American Civil Constructors

Job Number: 580-11066-2

Client Sample ID: HB4A

Lab Sample ID: 580-11066-7
Client Matrix: Solid

Date Sampled: 08/25/2008 0000
Date Received: 08/26/2008 1110

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method:	6010B	Analysis Batch: 580-35754		Instrument ID:	SEA027
Preparation:	3010A	Prep Batch: 580-35730		Lab File ID:	N/A
Dilution:	1.0	Leachate Batch: 580-35669		Initial Weight/Volume:	50.0 mL
Date Analyzed:	09/03/2008 1432			Final Weight/Volume:	50.0 mL
Date Prepared:	09/03/2008 1009				
Date Leached:	09/02/2008 936				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Lead		3.4		0.030

Client: American Civil Constructors

Job Number: 580-11066-2

Client Sample ID: HB4B

Lab Sample ID: 580-11066-8
Client Matrix: Solid

Date Sampled: 08/25/2008 0000
Date Received: 08/26/2008 1110

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method:	6010B	Analysis Batch: 580-35754		Instrument ID:	SEA027
Preparation:	3010A	Prep Batch: 580-35730		Lab File ID:	N/A
Dilution:	1.0	Leachate Batch: 580-35669		Initial Weight/Volume:	50.0 mL
Date Analyzed:	09/03/2008 1436			Final Weight/Volume:	50.0 mL
Date Prepared:	09/03/2008 1009				
Date Leached:	09/02/2008 936				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Lead		0.60		0.030

Client: American Civil Constructors | Job Number: 580-11066-2

Client Sample ID: HB4C

Lab Sample ID:	580-11066-9	Date Sampled:	08/25/2008 0000
Client Matrix:	Solid	Date Received:	08/26/2008 1110

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method:	6010B	Analysis Batch: 580-35754		Instrument ID:	SEA027
Preparation:	3010A	Prep Batch: 580-35730		Lab File ID:	N/A
Dilution:	1.0	Leachate Batch: 580-35669		Initial Weight/Volume:	50.0 mL
Date Analyzed:	09/03/2008 1450			Final Weight/Volume:	50.0 mL
Date Prepared:	09/03/2008 1009				
Date Leached:	09/02/2008 936				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Lead		0.14		0.030

Client: American Civil Constructors

Job Number: 580-11066-2

Client Sample ID: HB5A

Lab Sample ID: 580-11066-15
Client Matrix: Solid

Date Sampled: 08/26/2008 0000
Date Received: 08/26/2008 1110

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method:	6010B	Analysis Batch: 580-35754		Instrument ID:	SEA027
Preparation:	3010A	Prep Batch: 580-35730		Lab File ID:	N/A
Dilution:	1.0	Leachate Batch: 580-35669		Initial Weight/Volume:	50.0 mL
Date Analyzed:	09/03/2008 1454			Final Weight/Volume:	50.0 mL
Date Prepared:	09/03/2008 1009				
Date Leached:	09/02/2008 936				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Lead		0.60		0.030

QUALITY CONTROL RESULTS

Client: American Civil Constructors

Job Number: 580-11066-2

Method Blank - Batch: 580-35730

Method: 6010B
Preparation: 3010A

Lab Sample ID: MB 580-35730/16-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/03/2008 1323
Date Prepared: 09/03/2008 1009

Analysis Batch: 580-35754
Prep Batch: 580-35730
Units: mg/L

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 50.0 mL
Final Weight/Volume: 50.0 mL

Analyte	Result	Qual	RL
Lead	ND		0.030

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 580-35730

Method: 6010B
Preparation: 3010A

LCS Lab Sample ID: LCS 580-35730/17-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/03/2008 1348
Date Prepared: 09/03/2008 1009

Analysis Batch: 580-35754
Prep Batch: 580-35730
Units: mg/L

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 50.0 mL
Final Weight/Volume: 50.0 mL

LCSD Lab Sample ID: LCSD 580-35730/18-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 09/03/2008 1352
Date Prepared: 09/03/2008 1009

Analysis Batch: 580-35754
Prep Batch: 580-35730
Units: mg/L

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 50.0 mL
Final Weight/Volume: 50.0 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Lead	100	102	80 - 120	2	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tacoma
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

E-mail tmiller@accbuilt.com

Chain of Custody Record

A.C.C. American Civil Construction

Client	Project Manager	Date	Chain of Custody Number
7005 Riverside dr	Tim Miller	8-29-08	3633
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 2**
PO Box 80945	206 793 0426	11066	
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Sea WA /	98108		
Project Name and Location (State)	**Carrier/Waybill Number**		
EDDON 3510 GRANDVIEW			
Contract/Purchase Order/Quote No.			
1508012 Gig Harbor			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: TCLP Pb	Special Instructions/ Conditions of Receipt
(1) AHA-3	8-25-08												X	
2 AHA3A	"													
3 AHA3B	"													
4 AHA3C	"													
5 AHA3D	"													
(6) HB4	"												X	
7 HB4A	"													
8 HB4B	↓													
9 HB4C	↓													
(10) AG6	8-26-08												X	
11 AG6A	↓													
12 AG6B	↓													

Page 10 of 12

Cooler: ☐ Yes ☐ No Cooler Temp:_____

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☒ 10 Days ☐ 15 Days ☐ Other 72 hr

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By	8-26-08	1110	1. Received By K Rose	8/26/08	1110
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

09/04/2008

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0508)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tacoma
5755 8th Street E.
Tacoma, WA 98424
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Fax 253-922-5047
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Email tmiller@accbuilt.com

Chain of Custody Record

Client: ACC
700 S. Riverside Dr

Project Manager: Tim Miller

Date: 8-29-08

Chain of Custody Number: 3634

Address: PO Box 80945

Telephone Number (Area Code)/Fax Number: 206 793 0426

Lab Number: 11066

Page 2 of 2

City: Sea | State: WA | Zip Code: 98108

Site Contact | Lab Contact

Project Name and Location (State): EDDON 3510 GRANDVIEW

Carrier/Waybill Number

Contract/Purchase Order/Quote No.: 1508012 Gig Harbor

Analysis (Attach list if more space is needed): TCLP Pb

Special Instructions/ Conditions of Receipt

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	TCLP Pb
13 AG6-C	8-26-08												X
14 HB5													
15 HB5A													
16 HB5B													
17 HB5C													
18 HB5D													
19 AS2													X
20 AS2A													
21 AS2B													
22 AS2C													

Page 11 of 12

Cooler: ☐ Yes ☐ No Cooler Temp:_____

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For_____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	8-26-08	1110	1. Received By	8/26/08	1110
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

09/04/2008

Comments

Login Sample Receipt Check List

Client: TestAmerica Tacoma

Job Number: 580-11066-2

Login Number: 11066
List Source: TestAmerica Tacoma
Creator: Harding, Jessica
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 580-11066-1

Job Description: EDDON 3510 Grandview

For:
American Civil Constructors
700 S. Riverside Drive
PO Box 80945
Seattle, WA 98108

Attention: Ed Thornton

Ivy J Bolm
Project Manager I
ivy.bolm@testamericainc.com
08/29/2008

cc: Tim Miller

TestAmerica Tacoma is a part of TestAmerica Laboratories, Inc.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted in the case narrative.

METHOD SUMMARY

Client: American Civil Constructors

Job Number: 580-11066-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Inductively Coupled Plasma - Atomic Emission Spectrometry	TAL TAC	SW846 6010B	
Toxicity Characteristic Leaching Procedure	TAL TAC		SW846 1311
Acid Digestion of Aqueous Samples and Extracts for	TAL TAC		SW846 3010A

Lab References:

TAL TAC = TestAmerica Tacoma

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: American Civil Constructors

Job Number: 580-11066-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
580-11066-1	AHA3	Solid	08/25/2008 0000	08/26/2008 1110
580-11066-6	HB4	Solid	08/25/2008 0000	08/26/2008 1110
580-11066-10	AG6	Solid	08/26/2008 0000	08/26/2008 1110
580-11066-14	HB5	Solid	08/26/2008 0000	08/26/2008 1110
580-11066-19	AS2	Solid	08/26/2008 0000	08/26/2008 1110

Client: American Civil Constructors

Job Number: 580-11066-1

Client Sample ID: AHA3

Lab Sample ID: 580-11066-1
Client Matrix: Solid

Date Sampled: 08/25/2008 0000
Date Received: 08/26/2008 1110

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method:	6010B	Analysis Batch: 580-35589		Instrument ID:	SEA027
Preparation:	3010A	Prep Batch: 580-35563		Lab File ID:	N/A
Dilution:	1.0	Leachate Batch: 580-35534		Initial Weight/Volume:	50.0 mL
Date Analyzed:	08/28/2008 1454			Final Weight/Volume:	50.0 mL
Date Prepared:	08/28/2008 1113				
Date Leached:	08/27/2008 1419				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Lead		ND		0.030

Client: American Civil Constructors

Job Number: 580-11066-1

Client Sample ID: HB4

Lab Sample ID: 580-11066-6
Client Matrix: Solid

Date Sampled: 08/25/2008 0000
Date Received: 08/26/2008 1110

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method:	6010B	Analysis Batch: 580-35589		Instrument ID:	SEA027
Preparation:	3010A	Prep Batch: 580-35563		Lab File ID:	N/A
Dilution:	1.0	Leachate Batch: 580-35534		Initial Weight/Volume:	50.0 mL
Date Analyzed:	08/28/2008 1458			Final Weight/Volume:	50.0 mL
Date Prepared:	08/28/2008 1113				
Date Leached:	08/27/2008 1419				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Lead		26		0.030

Client: American Civil Constructors

Job Number: 580-11066-1

Client Sample ID: AG6

Lab Sample ID: 580-11066-10
Client Matrix: Solid

Date Sampled: 08/26/2008 0000
Date Received: 08/26/2008 1110

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 08/28/2008 1502
Date Prepared: 08/28/2008 1113
Date Leached: 08/27/2008 1419

Analysis Batch: 580-35589
Prep Batch: 580-35563
Leachate Batch: 580-35534

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 50.0 mL
Final Weight/Volume: 50.0 mL

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Lead		ND		0.030

Client: American Civil Constructors

Job Number: 580-11066-1

Client Sample ID: HB5

Lab Sample ID: 580-11066-14
Client Matrix: Solid

Date Sampled: 08/26/2008 0000
Date Received: 08/26/2008 1110

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method:	6010B	Analysis Batch: 580-35589		Instrument ID:	SEA027
Preparation:	3010A	Prep Batch: 580-35563		Lab File ID:	N/A
Dilution:	1.0	Leachate Batch: 580-35534		Initial Weight/Volume:	50.0 mL
Date Analyzed:	08/28/2008 1506			Final Weight/Volume:	50.0 mL
Date Prepared:	08/28/2008 1113				
Date Leached:	08/27/2008 1419				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Lead		4.4		0.030

Client: American Civil Constructors

Job Number: 580-11066-1

Client Sample ID: AS2

Lab Sample ID: 580-11066-19
Client Matrix: Solid

Date Sampled: 08/26/2008 0000
Date Received: 08/26/2008 1110

6010B Inductively Coupled Plasma - Atomic Emission Spectrometry-TCLP

Method: 6010B
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 08/28/2008 1415
Date Prepared: 08/28/2008 1113
Date Leached: 08/27/2008 1419

Analysis Batch: 580-35589
Prep Batch: 580-35563
Leachate Batch: 580-35534

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 50.0 mL
Final Weight/Volume: 50.0 mL

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	RL
Lead		ND		0.030

General Chemistry

Client Sample ID: **AHA3**

Lab Sample ID: 580-11066-1
Client Matrix: Solid

Date Sampled: 08/25/2008 0000
Date Received: 08/26/2008 1110

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	88		%	0.10	1.0	PercentMoisture
	Anly Batch: 580-35573		Date Analyzed 08/28/2008 1303			
Percent Moisture	12		%	0.10	1.0	PercentMoisture
	Anly Batch: 580-35573		Date Analyzed 08/28/2008 1303			

Client Sample ID: **HB4**

Lab Sample ID: 580-11066-6
Client Matrix: Solid

Date Sampled: 08/25/2008 0000
Date Received: 08/26/2008 1110

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	81		%	0.10	1.0	PercentMoisture
	Anly Batch: 580-35573		Date Analyzed 08/28/2008 1303			
Percent Moisture	19		%	0.10	1.0	PercentMoisture
	Anly Batch: 580-35573		Date Analyzed 08/28/2008 1303			

Client Sample ID: **AG6**

Lab Sample ID: 580-11066-10
Client Matrix: Solid

Date Sampled: 08/26/2008 0000
Date Received: 08/26/2008 1110

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	79		%	0.10	1.0	PercentMoisture
	Anly Batch: 580-35573		Date Analyzed 08/28/2008 1303			
Percent Moisture	21		%	0.10	1.0	PercentMoisture
	Anly Batch: 580-35573		Date Analyzed 08/28/2008 1303			

General Chemistry

Client Sample ID: **HB5**

Lab Sample ID: 580-11066-14
Client Matrix: Solid

Date Sampled: 08/26/2008 0000
Date Received: 08/26/2008 1110

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	79		%	0.10	1.0	PercentMoisture
	Anly Batch: 580-35573		Date Analyzed 08/28/2008 1303			
Percent Moisture	21		%	0.10	1.0	PercentMoisture
	Anly Batch: 580-35573		Date Analyzed 08/28/2008 1303			

Client Sample ID: **AS2**

Lab Sample ID: 580-11066-19
Client Matrix: Solid

Date Sampled: 08/26/2008 0000
Date Received: 08/26/2008 1110

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	65		%	0.10	1.0	PercentMoisture
	Anly Batch: 580-35573		Date Analyzed 08/28/2008 1303			
Percent Moisture	35		%	0.10	1.0	PercentMoisture
	Anly Batch: 580-35573		Date Analyzed 08/28/2008 1303			

QUALITY CONTROL RESULTS

Client: American Civil Constructors

Job Number: 580-11066-1

Method Blank - Batch: 580-35563

Method: 6010B
Preparation: 3010A

Lab Sample ID: MB 580-35563/10-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/28/2008 1409
Date Prepared: 08/28/2008 1113

Analysis Batch: 580-35589
Prep Batch: 580-35563
Units: mg/L

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 50.0 mL
Final Weight/Volume: 50.0 mL

Analyte	Result	Qual	RL
Lead	ND		0.030

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 580-35563

Method: 6010B
Preparation: 3010A

LCS Lab Sample ID: LCS 580-35563/11-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/28/2008 1432
Date Prepared: 08/28/2008 1113

Analysis Batch: 580-35589
Prep Batch: 580-35563
Units: mg/L

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 50.0 mL
Final Weight/Volume: 50.0 mL

LCSD Lab Sample ID: LCSD 580-35563/12-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/28/2008 1436
Date Prepared: 08/28/2008 1113

Analysis Batch: 580-35589
Prep Batch: 580-35563
Units: mg/L

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 50.0 mL
Final Weight/Volume: 50.0 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Lead	114	113	80 - 120	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: American Civil Constructors

Job Number: 580-11066-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-35563

Method: 6010B
Preparation: 3010A
TCLP

MS Lab Sample ID:	580-11066-19	Analysis Batch: 580-35589	Instrument ID: SEA027
Client Matrix:	Solid	Prep Batch: 580-35563	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50.0 mL
Date Analyzed:	08/28/2008 1420		Final Weight/Volume: 50.0 mL
Date Prepared:	08/28/2008 1113		
Date Leached:	08/27/2008 1419	Leachate Batch: 580-35534	
MSD Lab Sample ID:	580-11066-19	Analysis Batch: 580-35589	Instrument ID: SEA027
Client Matrix:	Solid	Prep Batch: 580-35563	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50.0 mL
Date Analyzed:	08/28/2008 1424		Final Weight/Volume: 50.0 mL
Date Prepared:	08/28/2008 1113		
Date Leached:	08/27/2008 1419	Leachate Batch: 580-35534	

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Lead	101	100	50 - 150	1	20		

Duplicate - Batch: 580-35563

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID:	580-11066-19	Analysis Batch: 580-35589	Instrument ID: SEA027
Client Matrix:	Solid	Prep Batch: 580-35563	Lab File ID: N/A
Dilution:	1.0	Units: mg/L	Initial Weight/Volume: 50.0 mL
Date Analyzed:	08/28/2008 1418		Final Weight/Volume: 50.0 mL
Date Prepared:	08/28/2008 1113		
Date Leached:	08/27/2008 1419	Leachate Batch: 580-35534	

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Lead	ND	ND	13	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

E-mail
tmiller@accbuilt.com

Chain of Custody Record

Client: A.C.C. American Civil Construction
Address: 700 S. Riverside dr / PO BOX 80945
City: Sea WA | State: | Zip Code: 98108
Project Manager: Tim Miller
Telephone Number (Area Code)/Fax Number: 206 793 0426
Site Contact: | Lab Contact:
Carrier/Waybill Number:
Project Name and Location (State): EDDON 3510 GRANDVEIW
Contract/Purchase Order/Quote No.: 1508012 Gig Harbor
Date: 8-29-08
Lab Number: 11D66
Chain of Custody Number: 3633
Page 1 of 2

Analysis (Attach list if more space is needed): TCLP Pb

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TCLP Pb	Special Instructions/Conditions of Receipt
AHA-3	8-25-08												X	
AHA3A	"													
AHA3B	"													
AHA3C	"													
AHA3D	"													
HB4	"												X	
HB4A	"													
HB4B	↓													
HB4C	↓													
AG6	8-26-08												X	
AG6A	↓													
AG6B	↓													

Cooler: ☐ Yes ☐ No Cooler Temp: ____

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☑ 10 Days ☐ 15 Days ☐ Other 72 hr

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By [signature]	8-26-08	1110	1. Received By K [signature]	8/26/08	1110
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Tacoma
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

Email tmiller@accbuilt.com

Chain of Custody Record

Client: ACC
Project Manager: Tim Miller
Date: 8-29-08
Chain of Custody Number: 3634
Address: PO Box 80945
Telephone Number (Area Code)/Fax Number: 206 793 0426
Lab Number: 110166
Page 2 of 2
City: Sea
State: WA
Zip Code: 98108
Site Contact:
Lab Contact:
Project Name and Location (State): 2000N 3510 Grandview
Carrier/Waybill Number:
Contract/Purchase Order/Quote No.: 150801 2 Gig Harbor

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis: Tulip PB	Special Instructions/ Conditions of Receipt
AG6-C	8-29-08												X	
HB5														
HB5A														
HB5B														
HB5C														
HB5D														
AS2													X	
AS2A														
AS2B														
AS2C														

Page 15 of 16

Cooler: ☐ Yes ☐ No Cooler Temp:_____
Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown
Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For_____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other _____
QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	8-26-08	1110	1. Received By	8/26/08	1110
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

08/29/2008

Login Sample Receipt Check List

Client: TestAmerica Tacoma

Job Number: 580-11066-1

Login Number: 11066
Creator: Harding, Jessica
List Number: 1

List Source: TestAmerica Tacoma

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

APPENDIX D
MATERIAL WEIGH TICKETS BY FACILITY

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

REPRINT **R Ticket 1037953**

9/19/2008 10:42:59AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	07	07
Customer	WALCON	Waldner Consulting
Order		
Product	1500	Recyclable Clean Concrete <
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	10.00 Cubi		
Freight			
Tax	RECY		
Total			

	Pounds	Tons	Metric
Gross	0 *	0.00 *	0.00 *
Tare	0 *	0.00 *	0.00 *
Net	0 *	0.00 *	0.00 *

* Manual Weight

	Today	Order
Loads	1	0
Qty	10.00	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1037894

9/19/2008 7:20:10AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	12	12
Customer	WALCON	Waldner Consulting
Order		
Product	1001	Select Borrow
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	15.93 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	55820	27.91	25.32
Tare	23960	11.98	10.87
Net	31860	15.93	14.45

	Today	Order
Loads	1	0
Qty	15.93	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1037895

9/19/2008 7:21:32AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	07	07
Customer	WALCON	Waldner Consulting
Order		
Product	1001	Select Borrow
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	18.89 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	65720	32.86	29.81
Tare	27940	13.97	12.67
Net	37780	18.89	17.14

	Today	Order
Loads	2	0
Qty	34.82	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1037919

9/19/2008 8:50:34AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	12	12
Customer	WALCON	Waldner Consulting
Order		
Product	1001	Select Borrow
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	16.33 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	56620	28.31	25.68
Tare	23960 *	11.98 *	10.87 *
Net	32660	16.33	14.81

* Predetermined Tare

	Today	Order
Loads	3	0
Qty	51.15	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1037920

9/19/2008 9:02:18AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	07	07
Customer	WALCON	Waldner Consulting
Order		
Product	1001	Select Borrow
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	17.01 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	61960	30.98	28.10
Tare	27940 *	13.97 *	12.67 *
Net	34020	17.01	15.43

* Predetermined Tare

	Today	Order
Loads	4	0
Qty	68.16	0.00

WM. DICKSON CO.

9315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1037938

9/19/2008 10:06:09AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	12	12
Customer	WALCON	Waldner Consulting
Order		
Product	1000	1 1/4" Crushed Concrete
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	15.13 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	54220	27.11	24.59
Tare	23960 *	11.98 *	10.87 *
Net	30260	15.13	13.73

* Predetermined Tare

	Today	Order
Loads	1	0
Qty	15.13	0.00

WM. DICKSON C

3315 SOUTH PINE STREET - TACOMA,

Import
Sand
9-22-09

T **S Ticket 1038107**

9/22/2008 7:19:22AM

ocation: 1 Waller Road Landfill

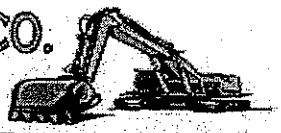
Carrier	MISSJ		
Vehicle	12		
Customer	WALCON		
Order			
Product	1009	Sand	
P.O.	EDDON BOAT YARD		
Deliver			
Weighmaster	JWS Ticket System		
Received			

	Qty	Rate	Amount
duct	34.60 Ton		
ght			
	NONTAX		
al			

	Pounds	Tons	Metric
Gross	107680	53.84	48.84
Tare	38480	19.24	17.45
Net	69200	34.60	31.39

	Today	Order
Loads	1	0
Qty	0.00	0.00

WM. DICKSON CO.



3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1038108

9/22/2008 7:23:19AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J	
Vehicle	08	08	
Customer	WALCON	Waldner Consulting	
Order			
Product	1009	Sand	
P.O.	EDDON BOAT YARD		
Deliver			
Weighmaster	JWS Ticket System		
Received			

	Qty	Rate	Amount
Product	33.03 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	104800	52.40	47.54
Tare	38740 *	19.37 *	17.57 *
Net	66060 *	33.03 *	29.96 *

* Manual Weight

	Today	Order
Loads	2	0
Qty	67.63	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1038109

9/22/2008 7:29:31AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	12	12
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.57 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105620	52.81	47.91
Tare	38480 *	19.24 *	17.45 *
Net	67140	33.57	30.45

* Predetermined Tare

	Today	Order
Loads	3	0
Qty	101.20	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

REPRINT **S Ticket 1038128**

9/22/2008 9:02:35AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	12	12
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	34.38 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	107240 ~	53.62 ~	48.64 ~
Tare	38480 *	19.24 *	17.45 *
Net	68760 ~	34.38 ~	31.19 ~

~ Manual Weight, * P.T.

	Today	Order
Loads	4	0
Qty	131.44	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

REPRINT **S Ticket 1038129**

9/22/2008 9:10:23AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.34 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105160	52.58	47.70
Tare	38480 *	19.24 *	17.45 *
Net	66680	33.34	30.25

* Predetermined Tare

	Today	Order
Loads	5	0
Qty	168.92	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1038138

9/22/2008 9:33:03AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.81 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	104360	52.18	47.34
Tare	38740 *	19.37 *	17.57 *
Net	65620	32.81	29.76

* Predetermined Tare

	Today	Order
Loads	6	0
Qty	201.73	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1038153

9/22/2008 10:36:57AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	12	12
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	eddon boat yard	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.21 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	104900	52.45	47.58
Tare	38480 *	19.24 *	17.45 *
Net	66420	33.21	30.13

* Predetermined Tare

	Today	Order
Loads	7	0
Qty	234.94	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1038156

9/22/2008 10:47:16AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.51 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105740	52.87	47.96
Tare	40720	20.36	18.47
Net	65020	32.51	29.49

	Today	Order
Loads	8	0
Qty	267.45	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

REPRINT **S Ticket 1038164**

9/22/2008 11:02:15AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.76 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	104260	52.13	47.29
Tare	38740 *	19.37 *	17.57 *
Net	65520	32.76	29.72

* Predetermined Tare

	Today	Order
Loads	9	0
Qty	300.21	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1038179

9/22/2008 11:52:28AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	12	12
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	eddon boat yard	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.62 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105720	52.86	47.95
Tare	38480 *	19.24 *	17.45 *
Net	67240	33.62	30.50

* Predetermined Tare

	Today	Order
Loads	10	0
Qty	333.83	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1038189

9/22/2008 12:06:15PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.07 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	106860	53.43	48.47
Tare	40720 *	20.36 *	18.47 *
Net	66140	33.07	30.00

* Predetermined Tare

	Today	Order
Loads	11	0
Qty	366.90	0.00

REPRINT

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1038191

9/22/2008 12:16:02PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.73 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	104200	52.10	47.26
Tare	38740 *	19.37 *	17.57 *
Net	65460	32.73	29.69

* Predetermined Tare

	Today	Order
Loads	12	0
Qty	397.39	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1038895

9/26/2008 9:43:10AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.54 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	103800	51.90	47.08
Tare	38720 *	19.36 *	17.56 *
Net	65080	32.54	29.52

* Predetermined Tare

	Today	Order
Loads	2	0
Qty	65.10	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1038924

9/26/2008 10:54:57AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	34.29 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	107300	53.65	48.67
Tare	38720 *	19.36 *	17.56 *
Net	68580	34.29	31.11

* Predetermined Tare

	Today	Order
Loads	3	0
Qty	99.39	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1038945

9/26/2008 11:57:02AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.23 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105180	52.59	47.71
Tare	38720 *	19.36 *	17.56 *
Net	66460	33.23	30.15

* Predetermined Tare

	Today	Order
Loads	4	0
Qty	132.62	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1038965

9/26/2008 1:00:28PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.50 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	103720	51.86	47.05
Tare	38720 *	19.36 *	17.56 *
Net	65000	32.50	29.48

* Predetermined Tare

	Today	Order
Loads	5	0
Qty	165.12	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1038975

9/26/2008 2:04:24PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.36 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105440	52.72	47.83
Tare	38720 *	19.36 *	17.56 *
Net	66720	33.36	30.26

* Predetermined Tare

	Today	Order
Loads	6	0
Qty	198.48	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1038987

9/26/2008 3:13:07PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.21 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105140	52.57	47.69
Tare	38720 *	19.36 *	17.56 *
Net	66420	33.21	30.13

* Predetermined Tare

	Today	Order
Loads	7	0
Qty	231.69	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1038818

9/26/2008 7:11:46AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.56 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	103840	51.92	47.10
Tare	38720	19.36	17.56
Net	65120	32.56	29.54

	Today	Order
Loads	1	0
Qty	32.56	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1038979

9/26/2008 2:35:59PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	RENTAL	RENTAL
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver	GIBSON	
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.21 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105440	52.72	47.83
Tare	39020 *	19.51 *	17.70 *
Net	66420	33.21	30.13

* Predetermined Tare

	Today	Order
Loads	6	0
Qty	195.96	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1038969

9/26/2008 1:26:52PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	RENTAL	RENTAL
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver	GIBSON	
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.09 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105200	52.60	47.72
Tare	39020 *	19.51 *	17.70 *
Net	66180	33.09	30.02

* Predetermined Tare

	Today	Order
Loads	5	0
Qty	162.75	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1038950

9/26/2008 12:17:54PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	RENTAL	RENTAL
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver	GIBSON	
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.00 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	103020	51.51	46.73
Tare	39020 *	19.51 *	17.70 *
Net	64000	32.00	29.03

* Predetermined Tare

	Today	Order
Loads	5	0
Qty	161.99	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1038928

9/26/2008 10:58:58AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	RENTAL	RENTAL
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver	GIBSON	
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.31 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	103640	51.82	47.01
Tare	39020 *	19.51 *	17.70 *
Net	64620	32.31	29.31

* Predetermined Tare

	Today	Order
Loads	3	0
Qty	97.66	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1038897

9/26/2008 9:48:05AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	RENTAL	RENTAL
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver	GIBSON	
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.63 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	104280	52.14	47.30
Tare	39020 *	19.51 *	17.70 *
Net	65260	32.63	29.60

* Predetermined Tare

	Today	Order
Loads	2	0
Qty	65.35	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1038822

9/26/2008 7:24:30AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	RENTAL	RENTAL
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver	GIBSON	
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.72 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	104460	52.23	47.38
Tare	39020	19.51	17.70
Net	65440	32.72	29.68

	Today	Order
Loads	1	0
Qty	32.72	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1039265

9/30/2008 2:13:49PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.13 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	104840	52.42	47.55
Tare	40580 *	20.29 *	18.41 *
Net	64260	32.13	29.15

* Predetermined Tare

	Today	Order
Loads	7	0
Qty	226.75	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1039232

9/30/2008 1:05:31PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.37 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105320	52.66	47.77
Tare	40580 *	20.29 *	18.41 *
Net	64740	32.37	29.37

* Predetermined Tare

	Today	Order
Loads	6	0
Qty	194.62	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1039209

9/30/2008 11:55:43AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.66 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105900	52.95	48.04
Tare	40580 *	20.29 *	18.41 *
Net	65320	32.66	29.63

* Predetermined Tare

	Today	Order
Loads	5	0
Qty	162.25	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1039179

9/30/2008 10:50:05AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.55 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105680	52.84	47.94
Tare	40580 *	20.29 *	18.41 *
Net	65100	32.55	29.53

* Predetermined Tare

	Today	Order
Loads	4	0
Qty	129.59	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1039164

9/30/2008 9:47:12AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	31.59 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	103760	51.88	47.06
Tare	40580 *	20.29 *	18.41 *
Net	63180	31.59	28.66

* Predetermined Tare

	Today	Order
Loads	3	0
Qty	97.04	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1039139

9/30/2008 8:29:26AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

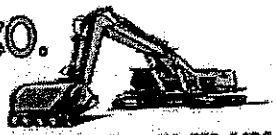
	Qty	Rate	Amount
Product	31.75 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	104080	52.04	47.21
Tare	40580 *	20.29 *	18.41 *
Net	63500	31.75	28.80

* Predetermined Tare

	Today	Order
Loads	2	0
Qty	65.45	0.00

WM. DICKSON CO.



3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1039121

9/30/2008 6:59:50AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.70 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	107980	53.99	48.98
Tare	40580 *	20.29 *	18.41 *
Net	67400	33.70	30.57

* Predetermined Tare

	Today	Order
Loads	1	0
Qty	33.70	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1039236

9/30/2008 1:13:24PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	07	07
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	eddon boat yard	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	31.84 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105020	52.51	47.64
Tare	41340 *	20.67 *	18.75 *
Net	63680	31.84	28.88

* Predetermined Tare

	Today	Order
Loads	6	0
Qty	186.61	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1039212

9/30/2008 12:01:47PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	07	07
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	eddon boat yard	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	31.98 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105300	52.65	47.76
Tare	41340 *	20.67 *	18.75 *
Net	63960	31.98	29.01

* Predetermined Tare

	Today	Order
Loads	5	0
Qty	154.77	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1039123

9/30/2008 7:05:32AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	07	07
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	eddon boat yard	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	28.64 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	98620	49.31	44.73
Tare	41340	20.67	18.75
Net	57280	28.64	25.98

	Today	Order
Loads	1	0
Qty	28.64	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1039178

9/30/2008 10:44:32AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	07	07
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	eddon boat yard	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	31.93 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105200	52.60	47.72
Tare	41340 *	20.67 *	18.75 *
Net	63860	31.93	28.97

* Predetermined Tare

	Today	Order
Loads	4	0
Qty	122.79	0.00

WM. DICKSON CO.

3315 South Pine Street • Tacoma, WA. 98409 • Ph. 253-472-4489

S Ticket 1039157

9/30/2008 9:35:46AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	07	07
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	eddon boat yard	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	30.88 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	103100	51.55	46.77
Tare	41340 *	20.67 *	18.75 *
Net	61760	30.88	28.01

* Predetermined Tare

	Today	Order
Loads	3	0
Qty	90.86	0.00

WM. DICKSON CO.

3315 South Pine Street • Tacoma, WA. 98409 • Ph. 253-472-4489

S Ticket 1039138

9/30/2008 8:26:43AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	07	07
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	eddon boat yard	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	31.34 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	104020	52.01	47.18
Tare	41340 *	20.67 *	18.75 *
Net	62680	31.34	28.43

* Predetermined Tare

	Today	Order
Loads	2	0
Qty	59.98	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA 98409 - Ph. 253-472-4489

S Ticket 1039266

9/30/2008 2:18:15PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	07	07
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	eddon boat yard	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.80 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	106940	53.47	48.51
Tare	41340 *	20.67 *	18.75 *
Net	65600	32.80	29.76

* Predetermined Tare

	Today	Order
Loads	7	0
Qty	219.41	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1039106

9/29/2008 2:48:34PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	06	06
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.01 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105360	52.68	47.79
Tare	41340 *	20.67 *	18.75 *
Net	64020	32.01	29.04

* Predetermined Tare

	Today	Order
Loads	5	0
Qty	159.66	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1039077

9/29/2008 1:31:24PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	06	06
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	31.99 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105320	52.66	47.77
Tare	41340 *	20.67 *	18.75 *
Net	63980	31.99	29.02

* Predetermined Tare

	Today	Order
Loads	4	0
Qty	127.65	0.00

WM. DICKSON CO.

3315 South Pine Street • Tacoma, WA. 98409 • Ph. 253-472-4489

S Ticket 1039063

9/29/2008 12:13:39PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	06	06
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.20 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105740	52.87	47.96
Tare	41340 *	20.67 *	18.75 *
Net	64400	32.20	29.21

* Predetermined Tare

	Today	Order
Loads	3	0
Qty	95.66	0.00

WM. DICKSON CO.

3315 South Pine Street • Tacoma, WA. 98409 • Ph. 253-472-4489

S Ticket 1039044

9/29/2008 11:06:36AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	06	06
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	31.88 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105100	52.55	47.67
Tare	41340 *	20.67 *	18.75 *
Net	63760	31.88	28.92

* Predetermined Tare

	Today	Order
Loads	2	0
Qty	63.46	0.00

WM. DICKSON CO.

3315 South Pine Street • Tacoma, WA. 98409 • Ph. 253-472-4489

S Ticket 1039023

9/29/2008 9:44:09AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	06	06
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	31.58 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	104500	52.25	47.40
Tare	41340	20.67	18.75
Net	63160	31.58	28.65

	Today	Order
Loads	1	0
Qty	31.58	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1039107

9/29/2008 2:51:55PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.02 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	106620	53.31	48.36
Tare	40580 *	20.29 *	18.41 *
Net	66040	33.02	29.96

* Predetermined Tare

	Today	Order
Loads	5	0
Qty	161.19	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1039083

9/29/2008 1:40:48PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	31.68 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	103940	51.97	47.15
Tare	40580 *	20.29 *	18.41 *
Net	63360	31.68	28.74

* Predetermined Tare

	Today	Order
Loads	4	0
Qty	128.17	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1039065

9/29/2008 12:25:21PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.31 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105200	52.60	47.72
Tare	40580 *	20.29 *	18.41 *
Net	64620	32.31	29.31

* Predetermined Tare

	Today	Order
Loads	3	0
Qty	96.49	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1039045

9/29/2008 11:10:22AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.63 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105840	52.92	48.01
Tare	40580 *	20.29 *	18.41 *
Net	65260	32.63	29.60

* Predetermined Tare

	Today	Order
Loads	2	0
Qty	64.18	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1039026

9/29/2008 9:58:59AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	31.55 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	103680	51.84	47.03
Tare	40580	20.29	18.41
Net	63100	31.55	28.62

	Today	Order
Loads	1	0
Qty	31.55	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040047

10/13/2008 7:06:05AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.20 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105500	52.75	47.85
Tare	39100	19.55	17.74
Net	66400	33.20	30.12

	Today	Order
Loads	2	0
Qty	67.82	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040052

10/13/2008 8:15:58AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.37 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105840	52.92	48.01
Tare	39100 *	19.55 *	17.74 *
Net	66740	33.37	30.27

* Predetermined Tare

	Today	Order
Loads	4	0
Qty	133.92	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040064

10/13/2008 9:19:22AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.15 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105400	52.70	47.81
Tare	39100 *	19.55 *	17.74 *
Net	66300	33.15	30.07

* Predetermined Tare

	Today	Order
Loads	6	0
Qty	200.90	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040079

10/13/2008 10:24:48AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.89 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	106880	53.44	48.48
Tare	39100 *	19.55 *	17.74 *
Net	67780	33.89	30.74

* Predetermined Tare

	Today	Order
Loads	8	0
Qty	267.98	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040102

10/13/2008 11:26:18AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.11 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105320	52.66	47.77
Tare	39100 *	19.55 *	17.74 *
Net	66220	33.11	30.04

* Predetermined Tare

	Today	Order
Loads	10	0
Qty	334.54	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040122

10/13/2008 12:34:15PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.69 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	106480	53.24	48.30
Tare	39100 *	19.55 *	17.74 *
Net	67380	33.69	30.56

* Predetermined Tare

	Today	Order
Loads	11	0
Qty	368.23	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040142

10/13/2008 1:33:29PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.82 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	104740	52.37	47.51
Tare	39100 *	19.55 *	17.74 *
Net	65640	32.82	29.77

* Predetermined Tare

	Today	Order
Loads	12	0
Qty	401.05	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040160

10/13/2008 2:38:46PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.07 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105240	52.62	47.74
Tare	39100 *	19.55 *	17.74 *
Net	66140	33.07	30.00

* Predetermined Tare

	Today	Order
Loads	13	0
Qty	434.12	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040159

10/13/2008 2:29:58PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	12	12
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.63 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105900	52.95	48.04
Tare	38640 *	19.32 *	17.53 *
Net	67260	33.63	30.51

* Predetermined Tare

	Today	Order
Loads	3	0
Qty	102.33	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040139

10/13/2008 1:29:22PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	12	12
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	34.33 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	107300	53.65	48.67
Tare	38640 *	19.32 *	17.53 *
Net	68660	34.33	31.14

* Predetermined Tare

	Today	Order
Loads	2	0
Qty	68.70	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040117

10/13/2008 12:19:29PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	12	12
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	34.37 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	107380	53.69	48.71
Tare	38640 *	19.32 *	17.53 *
Net	68740	34.37	31.18

* Predetermined Tare

	Today	Order
Loads	1	0
Qty	34.37	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040099

10/13/2008 11:18:40AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	12	12
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.45 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105540	52.77	47.87
Tare	38640 *	19.32 *	17.53 *
Net	66900	33.45	30.35

* Predetermined Tare

	Today	Order
Loads	9	0
Qty	301.43	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

R Ticket 1040074

10/13/2008 10:17:49AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	12	12
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.19 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105020	52.51	47.64
Tare	38640 *	19.32 *	17.53 *
Net	66380	33.19	30.11

* Predetermined Tare

	Today	Order
Loads	7	0
Qty	234.09	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040061

10/13/2008 9:13:56AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	12	12
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.83 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	106300	53.15	48.22
Tare	38640 *	19.32 *	17.53 *
Net	67660	33.83	30.69

* Predetermined Tare

	Today	Order
Loads	5	0
Qty	167.75	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040051

10/13/2008 8:11:04AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	12	12
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.73 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	104100	52.05	47.22
Tare	38640 *	19.32 *	17.53 *
Net	65460	32.73	29.69

* Predetermined Tare

	Today	Order
Loads	3	0
Qty	100.55	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040046

10/13/2008 7:01:30AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	12	12
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	34.62 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	107880	53.94	48.93
Tare	38640	19.32	17.53
Net	69240	34.62	31.41

	Today	Order
Loads	1	0
Qty	34.62	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040220

10/14/2008 11:58:08AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	06	06
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.83 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	106960	53.48	48.52
Tare	41300 *	20.65 *	18.73 *
Net	65660	32.83	29.78

* Predetermined Tare

	Today	Order
Loads	7	0
Qty	231.83	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040237

10/14/2008 1:15:06PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	06	06
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.99 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	107280	53.64	48.66
Tare	41300 *	20.65 *	18.73 *
Net	65980	32.99	29.93

* Predetermined Tare

	Today	Order
Loads	9	0
Qty	298.41	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040260

10/14/2008 2:19:45PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	06	06
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.98 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	107260	53.63	48.65
Tare	41300 *	20.65 *	18.73 *
Net	65960	32.98	29.92

* Predetermined Tare

	Today	Order
Loads	11	0
Qty	365.23	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040203

10/14/2008 10:50:22AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	06	06
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.27 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105840	52.92	48.01
Tare	41300	20.65	18.73
Net	64540	32.27	29.27

	Today	Order
Loads	5	0
Qty	164.96	0.00

WM. DICKSON CO.

3315 South Pine Street • Tacoma, WA. 98409 • Ph. 253-472-4489

S Ticket 1040267

10/14/2008 2:48:39PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.10 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105020	52.51	47.64
Tare	38820 *	19.41 *	17.61 *
Net	66200	33.10	30.03

* Predetermined Tare

	Today	Order
Loads	13	0
Qty	431.34	0.00

WM. DICKSON CO.

3315 South Pine Street • Tacoma, WA. 98409 • Ph. 253-472-4489

S Ticket 1040249

10/14/2008 1:48:04PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.84 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	106500	53.25	48.31
Tare	38820 *	19.41 *	17.61 *
Net	67680	33.84	30.70

* Predetermined Tare

	Today	Order
Loads	10	0
Qty	332.25	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

REPRINT **S Ticket 1040213**

10/14/2008 11:31:34AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	34.04 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	106900	53.45	48.49
Tare	38820 *	19.41 *	17.61 *
Net	68080	34.04	30.88

* Predetermined Tare

	Today	Order
Loads	6	0
Qty	199.00	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040229

10/14/2008 12:43:47PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.59 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	106000	53.00	48.08
Tare	38820 *	19.41 *	17.61 *
Net	67180	33.59	30.47

* Predetermined Tare

	Today	Order
Loads	8	0
Qty	265.42	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040199

10/14/2008 10:27:52AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.63 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	106080	53.04	48.12
Tare	38820 *	19.41 *	17.61 *
Net	67260	33.63	30.51

* Predetermined Tare

	Today	Order
Loads	4	0
Qty	132.69	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040194

10/14/2008 9:26:18AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.27 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105360	52.68	47.79
Tare	38820 *	19.41 *	17.61 *
Net	66540	33.27	30.18

* Predetermined Tare

	Today	Order
Loads	3	0
Qty	99.06	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040188

10/14/2008 8:26:21AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.95 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	104720	52.36	47.50
Tare	38820 *	19.41 *	17.61 *
Net	65900	32.95	29.89

* Predetermined Tare

	Today	Order
Loads	2	0
Qty	65.79	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040182

10/14/2008 7:15:03AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.84 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	104500	52.25	47.40
Tare	38820	19.41	17.61
Net	65680	32.84	29.79

	Today	Order
Loads	1	0
Qty	32.84	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040202

10/14/2008 10:47:28AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	RENTAL	RENTAL
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver	GIBSON	
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.41 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105800	52.90	47.99
Tare	38980 *	19.49 *	17.68 *
Net	66820	33.41	30.31

* Predetermined Tare

	Today	Order
Loads	4	0
Qty	133.07	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040196

10/14/2008 9:42:32AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	RENTAL	RENTAL
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver	GIBSON	
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	31.62 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	102220	51.11	46.37
Tare	38980 *	19.49 *	17.68 *
Net	63240	31.62	28.69

* Predetermined Tare

	Today	Order
Loads	3	0
Qty	99.66	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040189

10/14/2008 8:32:20AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	RENTAL	RENTAL
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver	GIBSON	
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	34.25 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	107480	53.74	48.75
Tare	38980 *	19.49 *	17.68 *
Net	68500	34.25	31.07

* Predetermined Tare

	Today	Order
Loads	2	0
Qty	68.04	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040183

10/14/2008 7:16:46AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	RENTAL	RENTAL
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver	GIBSON	
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.79 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	106560	53.28	48.33
Tare	38980	19.49	17.68
Net	67580	33.79	30.65

	Today	Order
Loads	1	0
Qty	33.79	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040234

10/14/2008 1:07:06PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	RENTAL	RENTAL
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver	GIBSON	
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.78 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	104540	52.27	47.42
Tare	38980 *	19.49 *	17.68 *
Net	65560	32.78	29.74

* Predetermined Tare

	Today	Order
Loads	8	0
Qty	265.16	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040221

10/14/2008 12:00:00PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	RENTAL	RENTAL
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver	GIBSON	
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.76 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	106500	53.25	48.31
Tare	38980 *	19.49 *	17.68 *
Net	67520	33.76	30.63

* Predetermined Tare

	Today	Order
Loads	6	0
Qty	199.01	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040263

10/14/2008 2:26:29PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	RENTAL	RENTAL
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver	GIBSON	
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.01 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105000	52.50	47.63
Tare	38980 *	19.49 *	17.68 *
Net	66020	33.01	29.95

* Predetermined Tare

	Today	Order
Loads	12	0
Qty	398.24	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040268

10/14/2008 2:54:13PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	10	10
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	31.69 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	101840	50.92	46.19
Tare	38460 *	19.23 *	17.45 *
Net	63380	31.69	28.75

* Predetermined Tare

	Today	Order
Loads	14	0
Qty	463.03	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040231

10/14/2008 12:49:30PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	10	10
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.37 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105200	52.60	47.72
Tare	38460 *	19.23 *	17.45 *
Net	66740	33.37	30.27

* Predetermined Tare

	Today	Order
Loads	7	0
Qty	232.38	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040250

10/14/2008 1:51:02PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	10	10
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.71 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105880	52.94	48.03
Tare	38460 *	19.23 *	17.45 *
Net	67420	33.71	30.58

* Predetermined Tare

	Today	Order
Loads	9	0
Qty	298.87	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

REPRINT **S Ticket 1040215**

10/14/2008 11:37:52AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	10	10
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.18 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	102820	51.41	46.64
Tare	38460	19.23	17.45
Net	64360	32.18	29.19

	Today	Order
Loads	5	0
Qty	165.25	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040481

10/16/2008 2:23:45PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	07	07
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.19 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105720	52.86	47.95
Tare	41340 *	20.67 *	18.75 *
Net	64380	32.19	29.20

* Predetermined Tare

	Today	Order
Loads	17	0
Qty	561.26	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040466

10/16/2008 1:27:56PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	07	07
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	31.56 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	104460	52.23	47.38
Tare	41340 *	20.67 *	18.75 *
Net	63120	31.56	28.63

* Predetermined Tare

	Today	Order
Loads	14	0
Qty	463.24	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040446

10/16/2008 12:01:10PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.33 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105480	52.74	47.84
Tare	40820 *	20.41 *	18.52 *
Net	64660	32.33	29.33

* Predetermined Tare

	Today	Order
Loads	9	0
Qty	293.50	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040432

10/16/2008 11:14:08AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.26 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105340	52.67	47.78
Tare	40820 *	20.41 *	18.52 *
Net	64520	32.26	29.27

* Predetermined Tare

	Today	Order
Loads	7	0
Qty	228.94	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040413

10/16/2008 10:24:45AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.25 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105320	52.66	47.77
Tare	40820	20.41	18.52
Net	64500	32.25	29.26

	Today	Order
Loads	5	0
Qty	164.36	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040473

10/16/2008 1:38:14PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.53 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105880	52.94	48.03
Tare	40820 *	20.41 *	18.52 *
Net	65060	32.53	29.51

* Predetermined Tare

	Today	Order
Loads	15	0
Qty	495.77	0.00

WM. DICKSON CO.
3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040458

10/16/2008 12:51:53PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.20 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105220	52.61	47.73
Tare	40820 *	20.41 *	18.52 *
Net	64400	32.20	29.21

* Predetermined Tare

	Today	Order
Loads	12	0
Qty	398.41	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040437

10/16/2008 11:39:05AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	12	12
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	31.86 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	102260	51.13	46.38
Tare	38540 *	19.27 *	17.48 *
Net	63720	31.86	28.90

* Predetermined Tare

	Today	Order
Loads	9	0
Qty	300.07	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040383

10/16/2008 7:11:32AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	12	12
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	34.28 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	107100	53.55	48.58
Tare	38540	19.27	17.48
Net	68560	34.28	31.10

	Today	Order
Loads	1	0
Qty	34.28	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040390

10/16/2008 8:22:31AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	12	12
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.75 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	106040	53.02	48.10
Tare	38540 *	19.27 *	17.48 *
Net	67500	33.75	30.62

* Predetermined Tare

	Today	Order
Loads	3	0
Qty	100.87	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040405

10/16/2008 9:28:29AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	12	12
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	34.82 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	108180	54.09	49.07
Tare	38540 *	19.27 *	17.48 *
Net	69640	34.82	31.59

* Predetermined Tare

	Today	Order
Loads	5	0
Qty	169.15	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040420

10/16/2008 10:37:17AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	12	12
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.24 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105020	52.51	47.64
Tare	38540 *	19.27 *	17.48 *
Net	66480	33.24	30.15

* Predetermined Tare

	Today	Order
Loads	7	0
Qty	235.05	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040384

10/16/2008 7:15:18AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.84 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	104820	52.41	47.55
Tare	39140	19.57	17.75
Net	65680	32.84	29.79

	Today	Order
Loads	2	0
Qty	67.12	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040394

10/16/2008 8:30:04AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.46 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	106060	53.03	48.11
Tare	39140 *	19.57 *	17.75 *
Net	66920	33.46	30.35

* Predetermined Tare

	Today	Order
Loads	4	0
Qty	134.33	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040407

10/16/2008 9:38:39AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.66 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	104460	52.23	47.38
Tare	39140 *	19.57 *	17.75 *
Net	65320	32.66	29.63

* Predetermined Tare

	Today	Order
Loads	6	0
Qty	201.81	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040421

10/16/2008 10:39:40AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.16 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105460	52.73	47.84
Tare	39140 *	19.57 *	17.75 *
Net	66320	33.16	30.08

* Predetermined Tare

	Today	Order
Loads	8	0
Qty	268.21	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040440

10/16/2008 11:43:27AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.09 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105320	52.66	47.77
Tare	39140 *	19.57 *	17.75 *
Net	66180	33.09	30.02

* Predetermined Tare

	Today	Order
Loads	10	0
Qty	333.16	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

R Ticket 1040460

10/16/2008 12:54:21PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.27 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105680	52.84	47.94
Tare	39140 *	19.57 *	17.75 *
Net	66540	33.27	30.18

* Predetermined Tare

	Today	Order
Loads	13	0
Qty	431.68	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040478

10/16/2008 1:58:22PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.30 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105740	52.87	47.96
Tare	39140 *	19.57 *	17.75 *
Net	66600	33.30	30.21

* Predetermined Tare

	Today	Order
Loads	16	0
Qty	529.07	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040489

10/16/2008 3:00:04PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.12 Ton		
Freight			
Tax	NONTAX		
Total			

5/4

	Pounds	Tons	Metric
Gross	105380	52.69	47.80
Tare	39140 *	19.57 *	17.75 *
Net	66240	33.12	30.05

* Predetermined Tare

	Today	Order
Loads	18	0
Qty	594.38	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

REPRINT **S Ticket 1040450**

10/16/2008 12:36:03PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	07	07
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.05 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	107440	53.72	48.73
Tare	41340 *	20.67 *	18.75 *
Net	66100	33.05	29.98

* Predetermined Tare

	Today	Order
Loads	11	0
Qty	366.21	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040442

10/16/2008 11:48:32AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	07	07
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.23 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105800	52.90	47.99
Tare	41340 *	20.67 *	18.75 *
Net	64460	32.23	29.24

* Predetermined Tare

	Today	Order
Loads	8	0
Qty	261.17	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040427

10/16/2008 10:54:31AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	07	07
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.32 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105980	52.99	48.07
Tare	41340 *	20.67 *	18.75 *
Net	64640	32.32	29.32

* Predetermined Tare

	Today	Order
Loads	6	0
Qty	196.68	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040410

10/16/2008 10:06:39AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	07	07
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	34.09 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	109520	54.76	49.68
Tare	41340 *	20.67 *	18.75 *
Net	68180	34.09	30.93

* Predetermined Tare

	Today	Order
Loads	4	0
Qty	132.11	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

R Ticket 1040402

10/16/2008 9:17:33AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	07	07
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	34.54 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	110420	55.21	50.09
Tare	41340 *	20.67 *	18.75 *
Net	69080	34.54	31.33

* Predetermined Tare

	Today	Order
Loads	3	0
Qty	98.02	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040392

10/16/2008 8:26:55AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	07	07
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	31.14 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	103620	51.81	47.00
Tare	41340 *	20.67 *	18.75 *
Net	62280	31.14	28.25

* Predetermined Tare

	Today	Order
Loads	2	0
Qty	63.48	0.00

WM. DICKSON CO.

2315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040385

10/16/2008 7:30:15AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	07	07
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.34 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	106020	53.01	48.09
Tare	41340 *	20.67 *	18.75 *
Net	64680	32.34	29.34

* Predetermined Tare

	Today	Order
Loads	1	0
Qty	32.34	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

REPRINT **S Ticket 1040565**

10/17/2008 12:50:49PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.29 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105440	52.72	47.83
Tare	38860 *	19.43 *	17.63 *
Net	66580	33.29	30.20

* Predetermined Tare

	Today	Order
Loads	11	0
Qty	0.00	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040552

10/17/2008 11:39:18AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.23 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105320	52.66	47.77
Tare	38860 *	19.43 *	17.63 *
Net	66460	33.23	30.15

* Predetermined Tare

	Today	Order
Loads	9	0
Qty	296.15	0.00

WM. DICKSON CO.

3315 SOUTH PINE STREET - TACOMA, WA. 98409 - PH. 253-472-4489

S Ticket 1040581

10/17/2008 2:08:31PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	31.59 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	102040	51.02	46.28
Tare	38860 *	19.43 *	17.63 *
Net	63180	31.59	28.66

* Predetermined Tare

	Today	Order
Loads	3	0
Qty	97.78	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040522

10/17/2008 9:29:35AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.17 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105200	52.60	47.72
Tare	38860 *	19.43 *	17.63 *
Net	66340	33.17	30.09

* Predetermined Tare

	Today	Order
Loads	5	0
Qty	165.00	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040532

10/17/2008 10:32:44AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.40 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105660	52.83	47.93
Tare	38860 *	19.43 *	17.63 *
Net	66800	33.40	30.30

* Predetermined Tare

	Today	Order
Loads	7	0
Qty	230.67	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040503

10/17/2008 7:14:17AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.22 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105300	52.65	47.76
Tare	38860	19.43	17.63
Net	66440	33.22	30.14

	Today	Order
Loads	1	0
Qty	33.22	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040512

10/17/2008 8:23:47AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	08	08
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.85 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	104560	52.28	47.43
Tare	38860 *	19.43 *	17.63 *
Net	65700	32.85	29.80

* Predetermined Tare

	Today	Order
Loads	3	0
Qty	99.67	0.00

WM. DICKSON CO.

3315 South Pine Street • Tacoma, WA. 98409 • Ph. 253-472-4489

S Ticket 1040567

10/17/2008 12:59:55PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.90 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	106620	53.31	48.36
Tare	40820 *	20.41 *	18.52 *
Net	65800	32.90	29.85

* Predetermined Tare

	Today	Order
Loads	1	0
Qty	32.90	0.00

WM. DICKSON CO.

3315 South Pine Street • Tacoma, WA. 98409 • Ph. 253-472-4489

S Ticket 1040582

10/17/2008 2:11:41PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	30.91 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	102640	51.32	46.56
Tare	40820 *	20.41 *	18.52 *
Net	61820	30.91	28.04

* Predetermined Tare

	Today	Order
Loads	4	0
Qty	128.69	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040537

10/17/2008 10:39:43AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.25 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105320	52.66	47.77
Tare	40820 *	20.41 *	18.52 *
Net	64500	32.25	29.26

* Predetermined Tare

	Today	Order
Loads	8	0
Qty	262.92	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040524

10/17/2008 9:37:55AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.27 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105360	52.68	47.79
Tare	40820 *	20.41 *	18.52 *
Net	64540	32.27	29.27

* Predetermined Tare

	Today	Order
Loads	6	0
Qty	197.27	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040514

10/17/2008 8:31:51AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	32.16 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	105140	52.57	47.69
Tare	40820 *	20.41 *	18.52 *
Net	64320	32.16	29.18

* Predetermined Tare

	Today	Order
Loads	4	0
Qty	131.83	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1040504

10/17/2008 7:19:07AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1009	Sand
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	33.60 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	108020	54.01	49.00
Tare	40820 *	20.41 *	18.52 *
Net	67200	33.60	30.48

* Predetermined Tare

	Today	Order
Loads	2	0
Qty	66.82	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1041375

10/30/2008 12:23:17PM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	07	07
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	17.39 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	62940	31.47	28.55
Tare	28160 *	14.08 *	12.77 *
Net	34780	17.39	15.78

* Predetermined Tare

	Today	Order
Loads	3	0
Qty	50.83	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1041358

10/30/2008 11:20:02AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	07	07
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	17.49 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	63140	31.57	28.64
Tare	28160	14.08	12.77
Net	34980	17.49	15.87

	Today	Order
Loads	2	0
Qty	33.44	0.00

WM. DICKSON CO.

3315 South Pine Street - Tacoma, WA. 98409 - Ph. 253-472-4489

S Ticket 1041351

10/30/2008 11:02:05AM

Location: 1 Waller Road Landfill

Carrier	MISSJ	MISS J
Vehicle	13	13
Customer	WALCON	Waldner Consulting
Order		
Product	1010	Habitat Rock
P.O.	EDDON BOAT YARD	
Deliver		
Weighmaster	JWS Ticket System	
Received		

	Qty	Rate	Amount
Product	15.95 Ton		
Freight			
Tax	NONTAX		
Total			

	Pounds	Tons	Metric
Gross	58400	29.20	26.49
Tare	26500	13.25	12.02
Net	31900	15.95	14.47

	Today	Order
Loads	1	0
Qty	15.95	0.00

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
Randles Sand & Gravel Dispatch Office: (253) 531-6800
Lynch Creek Quarry: 1 Mile N. on Weyerhaeuser Rd., Eatonville (360) 832-4269
Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

279125 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
8/23/2008	9:19:	CASH	582L	SOLINE	63	SRV-OTH	5

CUSTOMER NAME
RESALE TO 9-12

ASH SALES PICKED UP

Order No: ROADW
Loads Today: 7
Qty. Today: 136.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
25.00	Cubic	CLEAN TOPSOIL	2.00	50.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		50.00

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO	ROADYWAY CC ON FILE 606-5532 CHRI PLEASE FAX RECIEPTS 253-593 4 CASH SALES PICKED UP ON FILE PTS
Wendy P.	
RECEIVED BY	

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
Randles Sand & Gravel Dispatch Office: (253) 531-6800
Lynch Creek Quarry: 1 Mile N. on Weyerhaeuser Rd., Eatonville (360) 832-4269
Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

279116 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
0/23/2008	8:36:	CASH	582L	SOUNE	33	SRV-OTH	5

CUSTOMER NAME RESALE TO 9 12

SH SALES PICKED UP

Order No: ROADW
ads Today: 4
. Today: 87.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
25.00	Cubic	CLEAN TOPSOIL	2.00	50.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX 0.00% 0.00

TOTAL DUE 50.00

UNDS	TONS
	0.00
	0.00
	0.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO ROADYWAY CC ON FILE 606-5532 CHRI
PLEASE FAX RECIEPTS 253-593-4
CASH SALES PICKED UP ON FILE PTS

Wendy P.
RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
Randles Sand & Gravel Dispatch Office: (253) 531-6800
Lynch Creek Quarry: 1 Mile N. on Weyerhaeuser Rd., Eatonville (360) 832-4269
Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

279106 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
0/23/2008	8:01:	CASH	582	SOUNE	33	SRV-OTH	5

CUSTOMER NAME

RESALE TO 9 12

ASH SALES PICKED UP

Order No: ROADW
Loads Today: 1
Qty. Today: 28.93

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
28.93	Ton	UNCLASSIFIED F	12.00	347.16

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX 0.00% 0.00

TOTAL DUE 347.16

POUNDS	TONS
94300 *	47.15*
36440 *	18.22*
57860	28.93

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO ROADYWAY CC ON FILE 606-5532 CHRI
PLEASE FAX RECIEPTS 253-593-4
CASH SALES PICKED UP ON FILE PTS

Wendy P.
RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
Randles Sand & Gravel Dispatch Office: (253) 531-6800
Lynch Creek Quarry: 1 Mile N. on Weyerhaeuser Rd., Eatonville (360) 832-4269
Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

279150 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/23/2000	11:39	CASH	582L	SOUND	93	SRV-OTH	S

CUSTOMER NAME

RESALE TO 9-12

CASH SALES PICKED UP

Order No: ROADW
Loads Today: 17
Qty. Today: 295.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
25.00	Cubic	CLEAN TOPSOIL	2.00	50.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		50.00

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO

ROADYWAY CC ON FILE 606-5532 CHRI
PLEASE FAX RECIEPTS 253-593-4
CASH SALES PICKED UP ON FILE PTS

Rick M.
RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
Randles Sand & Gravel Dispatch Office: (253) 531-6800
Lynch Creek Quarry: 1 Mile N. on Weyerhaeuser Rd., Eatonville (360) 832-4269
Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

279120 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
8/23/2008	8:45:	CASH	582L	HRSJ	8	SRV-OTH	S

CUSTOMER NAME RESALE TO 9-12

CASH SALES PICKED UP

Order No: ROADW
Loads Today: 5
Qty. Today: 99.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
12.00	Cubic	CLEAN TOPSOIL	2.00	24.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX 0.00% 0.00

TOTAL DUE 24.00

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO ROADYWAY CC ON FILE 606-5532 CHRI
PLEASE FAX RECIEPTS 253-593-4
CASH SALES PICKED UP ON FILE PTS

Wendy P.
RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
Randles Sand & Gravel Dispatch Office: (253) 531-6800
Lynch Creek Quarry: 1 Mile N. on Weyerhaeuser Rd., Eatonville (360) 832-4269
Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

279112 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
8/23/2008	8:20:	CASH	582L	SOUNE	13	SRV-OTH	S

CUSTOMER NAME

RESALE TO 9-12

CASH SALES PICKED UP

Order No: ROADW
Loads Today: 3
Qty. Today: 62.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
25.00	Cubic	CLEAN TOPSOIL	2.00	50.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX 0.00% 0.00

TOTAL DUE 50.00

POUNDS	TONS
0	0.00
0	0.00
0	0.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO ROADYWAY CC ON FILE 606-5532 CHRI
PLEASE FAX RECIEPTS 253-593-4
CASH SALES PICKED UP ON FILE PTS

Wendy P.
RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
Randles Sand & Gravel Dispatch Office: (253) 531-6800
Lynch Creek Quarry: 1 Mile N. on Weyerhaeuser Rd., Eatonville (360) 832-4269
Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
8/23/2009	8:14:	CASH	552L	HRSJ	3	SRV OTH	5

CUSTOMER NAME

RESALE TO 9-12

ASH SALES PICKED UP

Order No: ROADW
Loads Today: 1
Qty. Today: 12.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
12.00	Cubic	CLEAN TOPSOIL	2.00	24.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	8.20%	0.00
TOTAL DUE		24.00

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO ROADWAY CC ON FILE 606-5532 CHRI
PLEASE FAX RECIEPTS 253-593-4
CASH SALES PICKED UP ON FILE PTS

Wendy P.
RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
Randles Sand & Gravel Dispatch Office: (253) 531-6800
Lynch Creek Quarry: 1 Mile N. on Weyerhaeuser Rd., Eatonville (360) 832-4269
Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
8/23/2009	8:15:	CASH	552L	HRSJ	7	SRV OTH	5

CUSTOMER NAME

RESALE TO 9-12

ASH SALES PICKED UP

Order No: ROADW
Loads Today: 2
Qty. Today: 37.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
25.00	Cubic	CLEAN TOPSOIL	2.00	50.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	8.00%	0.00
TOTAL DUE		50.00

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO ROADWAY CC ON FILE 606-5532 CHRI
PLEASE FAX RECIEPTS 253 593-4
CASH SALES PICKED UP ON FILE PTS

Wendy P.
RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

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Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

276186 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
/11/2000	2:13:	CASH	5203	ROADW	11	W	5

CUSTOMER NAME RESALE TO

ASH SALES PICKED UP

Order No: ROADW
Loads Today: 2
Qty. Today: 25.17

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
11.29	Ton	1/4 KRM	15.00	169.35

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX 0.00% 0.00

TOTAL DUE 169.35

	POUNDS	TONS
GROSS:	49400 *	24.70*
TARE:	26820 *	13.41*
NET:	22580	11.29

* Manual Weight

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO: ROADWAY
ON FILE PTS
CASH SALES PICKED UP

Isaac E.
RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
Randles Sand & Gravel Dispatch Office: (253) 531-6800
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Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

279090 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
0/22/2000	2:51:	CASH	580	SOUNE	33	SRV-OTH	5

CUSTOMER NAME RESALE TO 9-12

ASH SALES PICKED UP

Order No: ROADW
Loads Today: 1
Qty. Today: 23.98

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
23.98	Ton	CONCRETE IN	7.00	167.86

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX 0.00% 0.00

TOTAL DUE 167.86

	POUNDS	TONS
G S:	84400 *	42.20*
TARE:	36440 *	18.22*
NET:	47960	23.98

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO: ROADWAY
ON FILE PTS
CASH SALES PICKED UP

Wendy P.
RECEIVED BY

PUROY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WH 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
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Lynch Creek Quarry: 1 Mile N. on Weyerhaeuser Rd., Eatonville (360) 832-4269
Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

276182 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
3/11/2008	12:04	CASH	5203	ROADW	11	W	5

CUSTOMER NAME RESALE TO

CASH SALES PICKED UP

Order No: ROADW
Loads Today: 1
Qty. Today: 13.88

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
13.88	Ton	1 1/4 KRM	15.00	208.20

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		208.20

	POUNDS	TONS
GROSS:	54580	27.29
TARE:	25820 *	13.41*
NET:	27760	13.88

* Manual Weight, * P.T.

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO	ROADYWAY ON FILE PTS CASH SALES PICKED UP
Wendy P.	
RECEIVED BY	

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
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Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

276189 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
/11/2008	2:28:	CASH	500	ROADW	11	SRV-OTH	5

CUSTOMER NAME RESALE TO

ASH SALES PICKED UP

Order No: ROADW
Loads Today: 2
Qty. Today: 25.38

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
14.01	Ton	CONCRETE IN	7.00	98.07

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		98.07

	POUNDS	TONS
S:	54840	27.42
TARE:	26820 *	13.41*
NET:	28020	14.01

* Predetermined Tare

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO	ROADYWAY CASH SALES PICKED UP
Isaac E.	
RECEIVED BY	

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
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Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

276161 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
3/11/2008	12:04	CASH	580	ROADW	11	SRV-OTH	S

CUSTOMER NAME RESALE TO

CASH SALES PICKED UP

Order No: ROADW
Loads Today: 1
Qty. Today: 11.37

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
11.37	Ton	CONCRETE IN	7.00	79.59

The customer assumes all responsibility for damages inside the curb or property line to property or persons.	Any applicable towing charges are customer's responsibility.	TAX	0.00% 0.00
		TOTAL DUE	79.59

	POUNDS	TONS
GROSS:	49560 *	24.78*
TARE:	26820 *	13.41*
NET:	22740	11.37

* Manual Weight

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO	ROADWAY ON FILE PTS CASH SALES PICKED UP
Wendy P.	
RECEIVED BY	

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
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Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

27912 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/23/2008	10:23	CASH	5821	SOUNE	53	SRV-OTH	5

CUSTOMER NAME
RESALE TO 9-12

CASH SALES PICKED UP

Order No: ROADW
Loads Today: 11
Qty. Today: 197.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
25.00	Cubic	CLEAN TOPSOIL	2.00	50.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		50.00

	POUNDS	TONS
GROSS:	0	0.00
	0	0.00
	0	0.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO
ROADYWAY CC ON FILE 606-5532 CHRI
PLEASE FAX RECIEPTS 253-593-4
CASH SALES PICKED UP ON FILE PTS

Rick M.
RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
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Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

27914 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/23/2008	10:53	CASH	5821	SOUNE	53	SRV-OTH	5

CUSTOMER NAME
RESALE TO 9-12

CASH SALES PICKED UP

Order No: ROADW
Loads Today: 14
Qty. Today: 246.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
25.00	Cubic	CLEAN TOPSOIL	2.00	50.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		50.00

	POUNDS	TONS
	0	0.00
ARE:	0	0.00
ET:	0	0.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO
ROADYWAY CC ON FILE 606-5532 CHRI
PLEASE FAX RECIEPTS 253-593-4
CASH SALES PICKED UP ON FILE PTS

Rick M.
RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

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Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

270134 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
8/23/2008	9:00:	CASH	592L	HRSJ		SRV-OTH	

CUSTOMER NAME RESALE TO 9-12

ASH SALES PICKED UP

Order No: ROADW
Loads Today: 6
Qty. Today: 111.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
12.00	Cubic	CLEAN TOPSOIL	2.00	24.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		24.00

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO	ROADWAY CC ON FILE 606 5532 CHRY PLEASE FAX RECIEPTS 253 593 4 CASH SALES PICKED UP ON FILE PTS
Wendy P.	
RECEIVED BY	

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
Randles Sand & Gravel Dispatch Office: (253) 531-6800
Lynch Creek Quarry: 1 Mile N. on Weyerhaeuser Rd., Eatonville (360) 832-4269
Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

270126 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
8/23/2008	9:30:	CASH	5207	HRSJ			

CUSTOMER NAME RESALE TO 9-12

ASH SALES PICKED UP

Order No: ROADW
Loads Today: 1
Qty. Today: 12.80

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
12.80	Ton	PX4 KRM	15.00	192.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		192.00

	POUNDS	TONS
GROSS:	49520	24.76
TARE:	23920 *	11.96*
NET:	25600	12.80

* Predetermined Tare

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO	ROADWAY CC ON FILE 606 5532 CHRY PLEASE FAX RECIEPTS 253-593-4 CASH SALES PICKED UP ON FILE PTS
Wendy P.	
RECEIVED BY	

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
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Lynch Creek Quarry: 1 Mile N. on Weyerhaeuser Rd., Eatonville (360) 832-4269
Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

27912? TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
0/23/2000	9:31:	CASH	5021.	MRSJ	9	SRV OTH	S

CUSTOMER NAME RESALE TO 9 12

ASH SALES PICKED UP

Order No: ROADW
Loads Today: 8
Qty. Today: 148.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
12.00	Cubic	CLEAN TOPSOIL	2.00	24.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		24.00

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO ROADYWAY CC ON FILE 606-5532 CHRI
PLEASE FAX RECIEPTS 253-593 4
CASH SALES P/CKED UP ON FILE PTS

Wendy P.

RECEIVED BY

SITES: **Fredrickson Accounting Office: (253) 531-6835**
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Randles Sand & Gravel Dispatch Office: (253) 531-6800
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Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

27913? TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/23/2000	9:54:	CASH	5207	MRSJ	7	W	S

CUSTOMER NAME RESALE TO 9-12

CASH SALES PICKED UP

Order No: ROADW.
Loads Today: 2
Qty. Today: 29.12

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
16.3[illegible]	Ton	2X4 KRM	15.00	244.95

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		244.95

	POUNDS	TONS
GROSS:	61440	30.72
TARE:	28780 *	14.39*
NET:	32660	16.33

*Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO ROADYWAY CC ON FILE 606-5532 CHRI
PLEASE FAX RECIEPTS 253-593-4
CASH SALES PICKED UP ON FILE PTS

Rich M.

RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
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Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

279129 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/23/2000	9:46:	CASH	582L	MRSJ	7	SRV-OTH	5

CUSTOMER NAME
RESALE TO 9-12

ASH SALES PICKED UP

Order No: ROADW
Loads Today: 9
Qty. Today: 160.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
12.00	Cubic	CLEAN TOPSOIL	2.00	24.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		24.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

DELIVER TO ROADYWAY CC ON FILE 606 5532 CHRI
PLEASE FAX RECIEPTS 253-593 4
CASH SALES PICKED UP ON FILE PTS

Wendy P.

RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
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Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

279131 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/23/2000	10:12	CASH	582L	MRSJ	8	SRV-OTH	5

CUSTOMER NAME
RESALE TO 9-12

CASH SALES PICKED UP

Order No: ROADW
Loads Today: 10
Qty. Today: 172.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
12.00	Cubic	CLEAN TOPSOIL	2.00	24.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		24.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

DELIVER TO ROADYWAY CC ON FILE 606-5532 CHRI
PLEASE FAX RECIEPTS 253-593-4
CASH SALES PICKED UP ON FILE PTS

Rick M.

RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
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Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

27914 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/23/2008	10:40	CASH	594L	MRSJ	7	W	5

CUSTOMER NAME
RESALE TO 9-12

CASH SALES PICKED UP

Order No: ROADW
Loads Today: 1
Qty. Today: 12.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
12.00	Cubic	UNCLASSIFIED F	2.00	24.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		24.00

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO ROADWAY CC ON FILE 606-5532 CHPT
PLEASE FAX RECIEPTS 253-593-4
CASH SALES PICKED UP ON FILE PTS

Rick M.
RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

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Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

27914 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/23/2008	10:47	CASH	582L	MRSJ	8	GRV-OTH	5

CUSTOMER NAME
RESALE TO 9-12

CASH SALES PICKED UP

Order No: ROADW
Loads Today: 12
Qty. Today: 288.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
12.00	Cubic	CLEAN TOPSOIL	2.00	24.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		24.00

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO ROADWAY CC ON FILE 606-5532 CHPT
PLEASE FAX RECIEPTS 253-593-4
CASH SALES PICKED UP ON FILE PTS

Rick M.
RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

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Randles Sand & Gravel Dispatch Office: (253) 531-6800
Lynch Creek Quarry: 1 Mile N. on Weyerhaeuser Rd., Eatonville (360) 832-4269
Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

27914 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/23/2000	11:11	CASH	5A2L	MRSJ	7	SRV-OTH	5

CUSTOMER NAME
RESALE TO 9-12

CASH SALES PICKED UP

Order No: ROADW
Loads Today: 15
Qty. Today: 254.00

QUANTITY	UNIT	PRODUCT		PRICE	AMOUNT
12.00	Cubic	CLEAN TOPSOIL		2.00	24.00
The customer assumes all responsibility for damages inside the curb or property line to property or persons.		Any applicable towing charges are customer's responsibility.	TAX	0.00%	0.00
			TOTAL DUE		24.00

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO	ROADYWAY CC ON FILE 606-5532 CHRI PLEASE FAX RECIEPTS 253-593-4 CASH SALES PICKED UP ON FILE PTS
Rick M.	
RECEIVED BY	

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
Randles Sand & Gravel Dispatch Office: (253) 531-6800
Lynch Creek Quarry: 1 Mile N. on Weyerhaeuser Rd., Eatonville (360) 832-4269
Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

27914 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/23/2000	11:18	CASH	5A2L	MRSJ	8	SRV-OTH	5

CUSTOMER NAME
RESALE TO 9-12

CASH SALES PICKED UP

Order No: ROADW
Loads Today: 16
Qty. Today: 270.00

QUANTITY	UNIT	PRODUCT		PRICE	AMOUNT
12.00	Cubic	CLEAN TOPSOIL		2.00	24.00
The customer assumes all responsibility for damages inside the curb or property line to property or persons.		Any applicable towing charges are customer's responsibility.	TAX	0.00%	0.00
			TOTAL DUE		24.00

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO	ROADYWAY CC ON FILE 606-5532 CHRI PLEASE FAX RECIEPTS 253-593-4 CASH SALES PICKED UP ON FILE PTS
Rick M.	
RECEIVED BY	

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
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Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

27915 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/23/2008	11:44	CASH	582L	MRSJ	7	SRV-OTH	5

CUSTOMER NAME
RESALE TO 9-12

CASH SALES PICKED UP

Order No: ROADW
Loads Today: 19
Qty. Today: 307.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
12.00	Cub	CLEAN TOPSOIL	2.00	24.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		24.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

DELIVER TO	ROADYWAY CC ON FILE 606-5532 CHRI PLEASE FAX RECIEPTS 253-593-4 CASH SALES PICKED UP ON FILE PTS
Rick M.	
RECEIVED BY	

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
Randles Sand & Gravel Dispatch Office: (253) 531-6800
Lynch Creek Quarry: 1 Mile N. on Weyerhaeuser Rd., Eatonville (360) 832-4269
Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

27915 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/23/2008	11:52	CASH	582L	MRSJ	0	SRV-OTH	5

CUSTOMER NAME
RESALE TO 9-12

CASH SALES PICKED UP

Order No: ROADW
Loads Today: 19
Qty. Today: 310.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
12.00	Cub	CLEAN TOPSOIL	2.00	24.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		24.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

DELIVER TO	ROADYWAY CC ON FILE 606-5532 CHRI PLEASE FAX RECIEPTS 253-593-4 CASH SALES PICKED UP ON FILE PTS
Rick M.	
RECEIVED BY	

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
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Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

279159 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
9/23/2000	12:27	CASH	580	SOUNE	53	SRV-OTH	S

CUSTOMER NAME RESALE TO 9-12

ASH SALES PICKED UP

Order No: ROADW
Loads Today: 2
Qty. Today: 55.71

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
29.96	Ton	CONCRETE IN	7.00	209.72

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX@	0.00%	0.00
TOTAL DUE		209.72

	POUNDS	TONS
GROSS:	96360 ~	48.18~
TARE:	36440 *	18.22*
NET:	59920	29.96

~ Manual Weight, * P.T.

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO	ROADYWAY CC ON FILE 606-5532 CHRI PLEASE FAX RECIEPTS 253-593-4 CASH SALES PICKED UP ON FILE PTS
Wendy P.	
RECEIVED BY	

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
Randles Sand & Gravel Dispatch Office: (253) 531-6800
Lynch Creek Quarry: 1 Mile N. on Weyerhaeuser Rd., Eatonville (360) 832-4269
Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

279160 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
9/23/2000	12:29	CASH	582L	MRSJ	4	SRV-OTH	S

CUSTOMER NAME RESALE TO 9-12

ASH SALES PICKED UP

Order No: ROADW
Loads Today: 20
Qty. Today: 331.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
12.00	Cubic	CLEAN TOPSOIL	2.00	24.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX@	0.00%	0.00
TOTAL DUE		24.00

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO	ROADYWAY CC ON FILE 606-5532 CHRI PLEASE FAX RECIEPTS 253-593-4 CASH SALES PICKED UP ON FILE PTS
Wendy P.	
RECEIVED BY	

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
Randles Sand & Gravel Dispatch Office: (253) 531-6800
Lynch Creek Quarry: 1 Mile N. on Weyerhaeuser Rd., Eatonville (360) 832-4269
Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

27916 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/23/2000	12:45	CASH	SOIL	MPSJ	7	SPU-OTH	5

CUSTOMER NAME
RESALE TO 9-12

CASH SALES PICKED UP

Order No: 20000
Loads Today: 21
Qty. Today: 343.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
12.00	Cub	CLEAN TOPSOIL	2.00	24.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		24.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

DELIVER TO BORDYWAY CC ON FILE 606-5532 CHRI
PLEASE FOX RECEIPTS 253-531-4
CASH SALES PICKED UP ON FILE PTS

RECEIVED BY Rick M.

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
Randles Sand & Gravel Dispatch Office: (253) 531-6800
Lynch Creek Quarry: 1 Mile N. on Weyerhaeuser Rd., Eatonville (360) 832-4269
Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

27916 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/23/2000	1:01:	CASH	SOIL	MPSJ	4	SPU-OTH	5

CUSTOMER NAME
RESALE TO 9-12

CASH SALES PICKED UP

Order No: 20000
Loads Today: 22
Qty. Today: 355.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
12.00	Cub	CLEAN TOPSOIL	2.00	24.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		24.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

DELIVER TO BORDYWAY CC ON FILE 606-5532 CHRI
PLEASE FOX RECEIPTS 253-531-4
CASH SALES PICKED UP ON FILE PTS

RECEIVED BY Rick M.

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
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Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

27316 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/22/2008	1:34:	CASH	5821	MRSJ	8	SRV-OTH	5

CUSTOMER NAME
RESALE TO 5-12

CASH SALES PICKED UP

Order No: ROADW
Loads Today: 24
Qty. Today: 375.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
12.00	Cubic	CLEAN TOPSOIL	2.00	24.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		24.00

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO
ROADYWAY CC ON FILE 606-5532 CHRI
PLEASE FAX RECIEPTS 253-593-4
CASH SALES PICKED UP ON FILE PTS

Rick M.
RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
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Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

27917 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/23/2008	1:35:	CASH	5821	MRSJ	7	SRV-OTH	5

CUSTOMER NAME
RESALE TO 5-12

CASH SALES PICKED UP

Order No: ROADW
Loads Today: 25
Qty. Today: 391.08

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
12.00	Cubic	CLEAN TOPSOIL	2.00	24.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		24.00

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO
ROADYWAY CC ON FILE 606-5532 CHRI
PLEASE FAX RECIEPTS 253-593-4
CASH SALES PICKED UP ON FILE PTS

Rick M.
RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
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Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

27915 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/23/2008	2:19:	CASH	582L	MRSJ	8	SRV-OTH	5

CUSTOMER NAME
RESALE TO 9-12

CASH SALES PICKED UP

Order No: ROADW
Loads Today: 25
Qty. Today: 403.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
12.00	Cubic	CLEAN TOPSOIL	2.00	24.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		24.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

DELIVER TO
ROADYWAY CC ON FILE 606-5532 CHRI
PLEASE FAX RECIEPTS 253-503-4
CASH SALES PICKED UP ON FILE PTC

Rick M.
RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
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Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

27916 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/23/2008	2:41:	CASH	582L	MRSJ	7	SRV-OTH	5

CUSTOMER NAME
RESALE TO 9-12

CASH SALES PICKED UP

Order No: ROADW
Loads Today: 27
Qty. Today: 415.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
12.00	Cubic	CLEAN TOPSOIL	2.00	24.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		24.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

DELIVER TO
ROADYWAY CC ON FILE 606-5532 CHRI
PLEASE FAX RECIEPTS 253-503-4
CASH SALES PICKED UP ON FILE PTC

Rick M.
RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: Fredrickson Accounting Office: (253) 531-6835
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Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

TICKET [illegible]

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/23/2008	2:50:	CASH	582L	MRSJ	0	SPV-OTH	5

CUSTOMER NAME
RESALE TO 9-12
CASH SALES PICKED UP
Order No: ROADW
Loads Today: 20
Qty. Today: 427.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
12.00	Cub	CLEAN TOPSOIL	2.00	24.00
The customer assumes all responsibility for damages inside the curb or property line to property or persons.	Any applicable towing charges are customer's responsibility.	TAX	0.00%	0.00
		TOTAL DUE		24.00

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO
ROADYWAY CO ON FILE 606-5532 CHRI
PLEASE FAX RECIEPTS 253-593-4
CASH SALES PICKED UP ON FILE PTS

Rick M.
RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

3,192

SITES: Fredrickson Accounting Office: (253) 531-6835
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Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

TICKET [illegible]

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/24/2008	10:03	CASH	581	SOUNE	91	SPV-OTH	5

CUSTOMER NAME
RESALE TO 9-12
CASH SALES PICKED UP
Order No: ROADW
Loads Today: 1
Qty. Today: 23.82

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
23.82	Ton	[illegible]	20.00	[illegible]
The customer assumes all responsibility for damages inside the curb or property line to property or persons.	Any applicable towing charges are customer's responsibility.	TAX	[illegible]	0.00
		TOTAL DUE		476.40

	POUNDS	TONS
GROSS:	85140 *	42.57 *
TARE:	37500 *	18.75 *
NET:	47640	23.82

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO
ROADYWAY CO ON FILE 606-5532 CHRI
PLEASE FAX RECIEPTS 253-593-4
CASH SALES PICKED UP ON FILE PTS

Rick M.
RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
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Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/21/2008	2:27:	CASH	582L	MRSJ	8	SRV-OTH	5

CUSTOMER NAME

RESALE TO 9-12

CASH SALES PICKED UP

Order No: ROADW
Loads Today: 1
Qty. Today: 96.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
96.00	Cub	CLEAN TOPSOIL	2.00	192.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		192.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

DELIVER TO

ROADWAY CC ON FILE 686-5532 CHRI
PLEASE FAX RECEIPTS 253-597-4
CASH SALES PICKED UP ON FILE PTS

Rick M.
RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
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Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/20/2008	2:05:	CASH	582L	MRSJ	7	SRV-OTH	5

CUSTOMER NAME

RESALE TO 9-12

CASH SALES PICKED UP

Order No: ROADW
Loads Today: 1
Qty. Today: 24.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
24.00	Cub	CLEAN TOPSOIL	2.00	48.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		48.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

DELIVER TO

ROADWAY CC ON FILE 686-5532 CHRI
PLEASE FAX RECEIPTS 253-597-4
CASH SALES PICKED UP ON FILE PTS

Mike C.
RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
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Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

TICKET 27940

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/29/2008	2:47:	CASH	5521	MRSJ	7	SRV-OTH	5

CUSTOMER NAME
RESALE TO 9-12
CASH SALES PICKED UP
Order No: ROADW
Loads Today: 3
Qty. Today: 156.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
12.00	Cub	CLEAN TOPSOIL	2.00	24.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00% 0.00
TOTAL DUE	24.00

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO
ROADWAY CC ON FILE 606-5532 CHRI
PLEASE FAX RECIEPTS 253-593-4
CASH SALES PICKED UP ON FILE PTS

Isaac E.
RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
Randles Sand & Gravel Dispatch Office: (253) 531-6800
Lynch Creek Quarry: 1 Mile N. on Weyerhaeuser Rd., Eatonville (360) 832-4269
Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

TICKET 27960

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/30/2008	10:29	CASH	5200	MRSJ	7	W	5

CUSTOMER NAME
RESALE TO 9-12
CASH SALES PICKED UP
Order No: ROADW
Loads Today: 1
Qty. Today: 17.79

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
17.79	Ton	4X6 KRM	15.00	266.85

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00% 0.00
TOTAL DUE	266.85

	POUNDS	TONS
GROSS:	64180	32.09
TARE:	28600 *	14.30*
NET:	35580	17.79

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO
ROADWAY CC ON FILE 606-5532 CHRI
PLEASE FAX RECIEPTS 253-593-4
CASH SALES PICKED UP ON FILE PTS

Isaac E.
RECEIVED BY

* Manual Weight

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
Randles Sand & Gravel Dispatch Office: (253) 531-6800
Lynch Creek Quarry: 1 Mile N. on Weyerhaeuser Rd., Eatonville (360) 832-4269
Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

27960 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/30/2008	10:31	CASH	582L	MRSJ	7	SPU-OTH	5

CUSTOMER NAME
RESALE TO 9-12

CASH SALES PICKED UP

Order No: ROADW
Loads Today: 1
Qty. Today: 36.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
36.00	Cubic	CLEAN TOPSOIL	2.00	72.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		72.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

DELIVER TO ROADWAY CC ON FILE 206-575-8202 CHRI
PLEASE FAX RECEIPTS 253-593-4
CASH SALES PICKED UP ON FILE PTS

Isaac E.
RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
Randles Sand & Gravel Dispatch Office: (253) 531-6800
Lynch Creek Quarry: 1 Mile N. on Weyerhaeuser Rd., Eatonville (360) 832-4269
Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

27960 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/30/2008	10:32	CASH	582L	MRSJ	13	SPU-OTH	5

CUSTOMER NAME
RESALE TO 9-12

CASH SALES PICKED UP

Order No: ROADW
Loads Today: 2
Qty. Today: 72.00

QUANTITY	UNIT	PRODUCT	PRICE	AMOUNT
36.00	Cubic	CLEAN TOPSOIL	2.00	72.00

The customer assumes all responsibility for damages inside the curb or property line to property or persons.

Any applicable towing charges are customer's responsibility.

TAX	0.00%	0.00
TOTAL DUE		72.00

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

	POUNDS	TONS
GROSS:	0	0.00
TARE:	0	0.00
NET:	0	0.00

DELIVER TO ROADWAY CC ON FILE 206-575-8202 CHRI
PLEASE FAX RECEIPTS 253-593-4
CASH SALES PICKED UP ON FILE PTS

Isaac E.
RECEIVED BY

PURDY TOPSOIL
5819 133RD ST NW
GIG HARBOR, WA 98335

SITES: **Fredrickson Accounting Office: (253) 531-6835**
MAILING ADDRESS: 19209 Canyon Rd. E., Puyallup, WA 98375
Randles Sand & Gravel Dispatch Office: (253) 531-6800
Lynch Creek Quarry: 1 Mile N. on Weyerhaeuser Rd., Eatonville (360) 832-4269
Purdy Topsoil & Gravel: 5819 133rd NW, Gig Harbor (253) 857-5850

27963 TICKET

DATE	TIME	ACCOUNT	PRODUCT	HAULER	TRUCK	TAX	LOCATION
10/30/2008	1:26:	CASH	5200	MRSJ	7	W	5

CUSTOMER NAME
RESALE TO 9-12

CASH SALES PICKED UP

Order No: RORDW
Loads Today: 2
Qty. Today: 32.04

QUANTITY	UNIT	PRODUCT		PRICE	AMOUNT
14.25	Ton	4X8 MRM		15.00	213.75
The customer assumes all responsibility for damages inside the curb or property line to property or persons.		Any applicable towing charges are customer's responsibility.	TAX	0.00%	0.00
			TOTAL DUE		213.75

	POUNDS	TONS
GROSS:	57100	28.55
TARE:	28500 *	14.30*
NET:	28500	14.25

* Predetermined Tare

* Terms net 20th, 1.5% per month on all accounts overdue.
Delinquent accounts may be placed on a cash-only basis.

DELIVER TO	PURDYWAY CC ON FILE 206-5532 CHRI PLEASE FAX RECEIPTS 253-593-4 CASH SALES PICKED UP ON FILE PTS
Isaac E.	
RECEIVED BY	

10/30/2008

History Ticket Inquiry

Begin Date	10/29/2008	Location	5	ARType	All
End Date	10/30/2008	Customer	CASH		
Sell/Buy/Trans	All	Order	ROADW		
Ship/Recieve	All	Ticket Type	All		

Ticket	Loc	Date	Time	Customer	Order	Product	Carrier	Vehicle	Qty	Unit	Price
279537	5	10/29/2008	11:12 am	CASH SALES	ROADW	MIXED CON(	MRS JS TRL	7	16.52	Ton	330.40
									16.52		330.40

Tickets 1

P.O. Box 5163
(509) 785-3505 • FAX: (509) 785-8001
George, Washington 98824

WEIGHMASTER'S WEIGHT TICKET

57500

DATE: 9.23.08

FROM: KEEP

TO: DEI

HAULED BY: Kissler #7

License No.:

License No.:

Driver: On Off

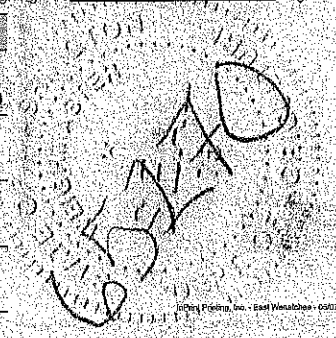
Weighed By: TV

Licensed Weighmaster No.: 75

Weighing Fee 10.00 Chg. Pd.

This ticket must be impressed with the weighmaster's seal and any erasures or alterations of weights will void the authentication of the seal.

Number	Article	Gross	Tare	Net
	K1	105220	39950	65270



Kissler Enterprises
Environmental Products, Inc.

P.O. Box 5163
George, Washington 98824
Phone: (509) 785-3505
Fax: (509) 785-2780
Cell: (509) 398-5298 (Rick)

ICC # MC337011 • CC # 58916

No. K 8676

Date 9/24/08

Truck No.: 7

Truck Type: T & T

Truck Rate:

Truck Hours:

Truck Charges:

Subtotal:

* Add Charges:

* Total Charges:

Customer: DEI

Billing Address:

Job Location: Gig Harbor

Job Number:

Start: Stop: Lunch: Downtime: Reason:

Material	From	Tons	To	No. Loads	Hours
K-1	KEEP Inc George WA		DEI Gig Harbor		
#	57500	32.63			

* Remarks

Driver's Signature

Auth. Co. Rep. Signature

Signature of this truck invoice will be considered your notice of our intent to lien this project, if necessary. Interest at 1 1/2 % per month will be charged on all past due accounts. Charges due by the tenth of the month following date of this billing.

08-072

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

001597 ROADWAY CONSTRUCTION
P.O. BOX 1472
TACOMA WA 98401

SITE	TICKET	GRID	WEIGHMASTER
39	043396		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/15/08	09/15/08	12:44	12:55		

REFERENCE	ORIGIN
MIKE	OTHER

Scale 1 Gross Wt. 52560 LB
Scale 2 Tare Wt. 36500 LB
Net Weight 16060 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
8.03	TON	09 CONSTRUCTION-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

HURLIN CONSTR. GIG HARBOR
NOTES ROA TRK 4

202.TS TO REORDER CONTACT NORTH STAR FORMS, LLC (877) 499-0492

SIGNATURE _____

08-072

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

001597 ROADWAY CONSTRUCTION
P.O. BOX 1472
TACOMA WA 98401

SITE	TICKET	GRID	WEIGHMASTER
39	043335		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/15/08	09/15/08	10:16	10:16		

REFERENCE	ORIGIN
MIKE	OTHER

Manual Gross Wt. 61380 LB
Manual Tare Wt. 36600 LB
Net Weight 24780 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
12.39	TON	09 CONSTRUCTION-IC				

NET AMOUNT
TENDERED

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044152		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/19/08	09/19/08	13:42	13:59	ACC7	

REFERENCE	ORIGIN
BILL	OTHER

Scale 1 Gross Wt. 99420 LB
Scale 2 Tare Wt. 41040 LB
Net Weight 58380 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
29.19	TON	23 SOIL DISPOSAL-IC	35.50	1036.25	37.31	1073.56

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

NET AMOUNT
1073.56
TENDERED
CHECK NO.

PO # WDA 1267
NOTES MISS J 7

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044373		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/22/08	09/22/08	14:05	14:31		

REFERENCE	ORIGIN
STASH	OTHER

Scale 1 Gross Wt. 99760 LB
Scale 2 Tare Wt. 38360 LB
Net Weight 61400 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
30.70	TON	23 SOIL DISPOSAL-IC	35.50	1089.85	39.23	1129.08

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J12

NET AMOUNT
1129.08
TENDERED
CHANGE
CHECK NO.

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044379		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/22/08	09/22/08	14:15	14:33		

REFERENCE	ORIGIN
JANI	OTHER

Scale 1 Gross Wt. 101560 LB
Scale 2 Tare Wt. 40300 LB
Net Weight 61260 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
30.63	TON	23 SOIL DISPOSAL-IC	35.50	1087.37	39.15	1126.52

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J

NET AMOUNT
1126.52
TENDERED
CHANGE
CHECK NO.

SIGNATURE

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

39	044387		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/22/08	09/22/08	14:35	14:54		

REFERENCE	ORIGIN
BERNIE	OTHER

Inbound - Charge ticket

Scale 1 Gross Wt.	104420	LB
Scale 2 Tare Wt.	38700	LB
Net Weight	65720	LB

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
32.86	TON	23 SOIL DISPOSAL-IC	35.50	1166.53	42.00	1208.53

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO #	WDA 1267
NOTES	MISS J08

NET AMOUNT
1208.53
TENDERED
CHECK NO

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

0 0 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044986		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/26/08	09/26/08	08:32	08:50	ACC13	

REFERENCE	ORIGIN
JANI	OTHER

Scale 1 Gross Wt. 106540 LB
Scale 2 Tare Wt. 40640 LB
Net Weight 65900 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
32.95	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J 13

SIGNATURE

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	045046		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/26/08	09/26/08	11:11	11:23	ACC13	

REFERENCE	ORIGIN
JANI	OTHER

Scale 1 Gross Wt. 106900 LB
Scale 2 Tare Wt. 40540 LB
Net Weight 66360 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
33.18	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J 13

SIGNATURE

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044976		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/26/08	09/26/08	08:21	08:38	ACC12	

REFERENCE	ORIGIN
STASH	OTHER

Scale 1 Gross Wt. 107740 LB
Scale 2 Tare Wt. 38620 LB
Net Weight 69120 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
34.56	TON	23 SOIL DISPOSAL-IC				

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

PO # WDA 1267
NOTES MISS J 12

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	045210		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/29/08	09/29/08	08:24	08:39		

REFERENCE	ORIGIN
JANI	OTHER

Inbound - Charge ticket

Scale 1 Gross Wt.	94920	LB
Scale 2 Tare Wt.	40660	LB
Net Weight	54260	LB

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
27.13	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J13

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	045216		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/29/08	09/29/08	08:39	08:52		

REFERENCE	ORIGIN
STASH	OTHER

Inbound - Charge ticket

Scale 1 Gross Wt.	97980	LB
Scale 2 Tare Wt.	41460	LB
Net Weight	56520	LB

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
28.26	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J6

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

30 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044552		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/23/08	09/23/08	14:01	14:18	ACC7	

REFERENCE	ORIGIN
TONY	OTHER

Scale 1 Gross Wt. 105400 LB
Scale 2 Tare Wt. 40940 LB
Net Weight 64460 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
32.23	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHECK NO

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J 7

TO REORDER CONTACT NORTH STAR FORMS, LLC (877) 499-0492 SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044585		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/23/08	09/23/08	15:57	16:17	ACC12	

REFERENCE	ORIGIN
STASH	OTHER

Scale 1 Gross Wt. 107940 LB
Scale 2 Tare Wt. 38200 LB
Net Weight 69740 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
34.87	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHECK NO

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J 12

TO REORDER CONTACT NORTH STAR FORMS, LLC (877) 499-0492 SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044540		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/23/08	09/23/08	13:26	13:40	ACC	

REFERENCE	ORIGIN
STASH	OTHER

Scale 1 Gross Wt. 105240 LB
Scale 2 Tare Wt. 38320 LB
Net Weight 66920 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
33.46	TON	23 SOIL DISPOSAL-IC				

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J 12

NET AMOUNT
TENDERED
CHANGE
CHECK NO

TO REORDER CONTACT NORTH STAR FORMS, LLC (877) 499-0492

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044546		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/23/08	09/23/08	13:43	13:59	ACC8	

REFERENCE	ORIGIN
BERNIE	OTHER

Scale 1 Gross Wt. 103140 LB
Scale 2 Tare Wt. 38620 LB
Net Weight 64520 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
32.26	TON	23 SOIL DISPOSAL-IC				

2 3813

rating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
4th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J 8

NET AMOUNT
TENDERED
CHANGE
CHECK NO

TO REORDER CONTACT NORTH STAR FORMS, LLC (877) 499-0492

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044496		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/23/08	09/23/08	11:16	11:28	ACC8	

REFERENCE	ORIGIN
BERNIE	OTHER

Scale 1 Gross Wt. 105680 LB
Scale 2 Tare Wt. 38760 LB
Net Weight 66920 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
33.46	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J 8

TO REORDER CONTACT NORTH STAR FORMS, LLC (877) 499-0492 SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044502		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/23/08	09/23/08	11:34	11:52	ACC7	

REFERENCE	ORIGIN
TONY	OTHER

Scale 1 Gross Wt. 115720 LB
Scale 2 Tare Wt. 41080 LB
Net Weight 74640 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
37.32	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHECK NO

rating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J 7

303 TS TO REORDER CONTACT NORTH STAR FORMS, LLC (877) 499-0492 SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044442		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/23/08	09/23/08	08:56	09:13	ACC7	

REFERENCE	ORIGIN
TONY	OTHER

Scale 1 Gross Wt. 126940 LB
Scale 2 Tare Wt. 41240 LB
Net Weight 85700 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
42.85	TON	23 SOIL DISPOSAL-IC				

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

PO # WDA 1267
NOTES MISS J 7

S TO REORDER CONTACT NORTH STAR FORMS, LLC (877) 499-0492

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044492		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/23/08	09/23/08	11:00	11:16	ACC12	

REFERENCE	ORIGIN
STASH	OTHER

Scale 1 Gross Wt. 109840 LB
Scale 2 Tare Wt. 38480 LB
Net Weight 71360 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
35.68	TON	23 SOIL DISPOSAL-IC				

erating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

PO # WDA 1267
NOTES MISS J 12

TO REORDER CONTACT NORTH STAR FORMS, LLC (877) 499-0492

SIGNATURE _____

DUPLICATE TICKET
PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

.30 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044432		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/23/08	09/23/08	08:30	08:50	ACC12	

REFERENCE	ORIGIN
STASH	OTHER

Scale 1 Gross Wt. 113960 LB
Scale 2 Tare Wt. 38640 LB
Net Weight 75320 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
37.66	TON	23 SOIL DISPOSAL-IC	35.50	1336.93	48.13	1385.06

NET AMOUNT 1385.06
TENDERED
CHECK NO.

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J 12

3 TO REORDER CONTACT NORTH STAR FORMS, LLC (877) 489-0492 SIGNATURE

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044437		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/23/08	09/23/08	08:41	08:59	ACC8	

REFERENCE	ORIGIN
BERNIE	OTHER

Scale 1 Gross Wt. 105360 LB
Scale 2 Tare Wt. 38960 LB
Net Weight 66400 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
33.20	TON	23 SOIL DISPOSAL-IC	35.50	1178.60	42.43	1221.03

NET AMOUNT 1221.03
TENDERED
CHECK NO.

erating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J 8

TO REORDER CONTACT NORTH STAR FORMS, LLC (877) 489-0492 SIGNATURE

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044619		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/24/08	09/24/08	08:36	08:56	ACC13	

REFERENCE	ORIGIN
JANI	OTHER

Scale 1 Gross Wt. 104820 LB
Scale 2 Tare Wt. 40500 LB
Net Weight 64320 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
32.16	TON	23 SOIL DISPOSAL-IC				

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

NET AMOUNT
TENDERED
CHECK NO.

PO # WDA 1267
NOTES MISS J 13

TO REORDER CONTACT NORTH STAR FORMS, LLC (877) 499-0492 SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044623		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/24/08	09/24/08	08:44	09:05	ACC8	

REFERENCE	ORIGIN
BERNIE	OTHER

Scale 1 Gross Wt. 102620 LB
Scale 2 Tare Wt. 38980 LB
Net Weight 63640 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
31.82	TON	23 SOIL DISPOSAL-IC				

erating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
04th Landfill-30919 Meridian/SR 161, Graham, WA

NET AMOUNT
TENDERED
CHECK NO.

PO # WDA 1267
NOTES MISS J 8

SIGNATURE

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044665		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/24/08	09/24/08	10:38	10:56	ACC12	

REFERENCE	ORIGIN
STASH	OTHER

Scale 1 Gross Wt. 114920 LB
Scale 2 Tare Wt. 38480 LB
Net Weight 76440 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
38.22	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J 12

TO REORDER CONTACT NORTH STAR FORMS, LLC (877) 499-0492

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044673		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/24/08	09/24/08	10:50	11:08	ACC7	

REFERENCE	ORIGIN
TONY	OTHER

Scale 1 Gross Wt. 107600 LB
Scale 2 Tare Wt. 41140 LB
Net Weight 66460 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
33.23	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J 7

SIGNATURE

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044684		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/24/08	09/24/08	11:17	11:35	ACC13	

REFERENCE	ORIGIN
JANI	OTHER

Scale 1 Gross Wt. 115500 LB
Scale 2 Tare Wt. 40440 LB
Net Weight 75060 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
37.53	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHECK NO

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J 13

S TO REORDER CONTACT NORTH STAR FORMS, LLC (877) 499-0492 SIGNATURE

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044703		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/24/08	09/24/08	12:11	12:23	ACC8	

REFERENCE	ORIGIN
BERNIE	OTHER

Scale 1 Gross Wt. 113340 LB
Scale 2 Tare Wt. 38880 LB
Net Weight 74460 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
37.23	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHECK NO

perating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J 8

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044723		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/24/08	09/24/08	13:05	13:21	ACC12	

REFERENCE	ORIGIN
STASH	OTHER

Scale 1 Gross Wt. 109280 LB
Scale 2 Tare Wt. 38380 LB
Net Weight 70900 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
35.45	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J 12

S TO REORDER CONTACT NORTH STAR FORMS, LLC (877) 499-0492 SIGNATURE

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044731		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/24/08	09/24/08	13:22	13:39	ACC7	

REFERENCE	ORIGIN
TONY	OTHER

Scale 1 Gross Wt. 105320 LB
Scale 2 Tare Wt. 40920 LB
Net Weight 64400 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
32.20	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHECK NO

perating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J 7

SIGNATURE

PCRCD, LLC dba LRI-304th
I7925 Meridian St E
Puyallup, WA 98375

130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044739		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/24/08	09/24/08	13:43	14:00	ACC13	

REFERENCE	ORIGIN
JANI	OTHER

Scale 1 Gross Wt. 104000 LB
Scale 2 Tare Wt. 40280 LB
Net Weight 63720 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
31.86	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHECK NO.

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J 13

3 TO REORDER CONTACT NORTH STAR FORMS, LLC (877) 499-0492 SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044780		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/24/08	09/24/08	15:41	15:59	ACC12	

REFERENCE	ORIGIN
STASH	OTHER

Scale 1 Gross Wt. 103460 LB
Scale 2 Tare Wt. 38200 LB
Net Weight 65260 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
32.63	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

erating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
04th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J 12

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044786		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/24/08	09/24/08	16:15	16:27	ACC13	

REFERENCE	ORIGIN
JANI	OTHER

Scale 1 Gross Wt. 106700 LB
Scale 2 Tare Wt. 40100 LB
Net Weight 66600 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
33.30	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J 13

S TO REORDER CONTACT NORTH STAR FORMS, LLC (877) 499-0492 SIGNATURE

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	048263		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/22/08	10/22/08	13:17	13:25	ACC7	

REFERENCE	ORIGIN
TONY	OTHER

Scale 1 Gross Wt. 101040 LB
Scale 2 Tare Wt. 41720 LB
Net Weight 59320 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
29.66	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO

erating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
04th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J 7

SIGNATURE

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

30 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044600		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/24/08	09/24/08	08:10	08:28	ACC12	

REFERENCE	ORIGIN
STASH	OTHER

Scale 1 Gross Wt. 106340 LB
Scale 2 Tare Wt. 38600 LB
Net Weight 67740 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
33.87	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J 12

3 TO REORDER CONTACT NORTH STAR FORMS, LLC (877) 498-0492

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044610		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/24/08	09/24/08	08:22	08:37	ACC7	

REFERENCE	ORIGIN
TONY	OTHER

Scale 1 Gross Wt. 103060 LB
Scale 2 Tare Wt. 42160 LB
Net Weight 60900 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
30.45	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J 7

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

?130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044810		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/25/08	09/25/08	08:25	08:37		

REFERENCE	ORIGIN
STASH	OTHER

Scale 1 Gross Wt. 110780 LB
Scale 2 Tare Wt. 38420 LB
Net Weight 72360 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
36.18	TON	23 SOIL DISPOSAL-IC				

9-25-08
Export

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA1267
NOTES MISS J12

NET AMOUNT
TENDERED
CHECK NO.

S TO REORDER CONTACT NORTH STAR FORMS, LLC (877) 499-0492 SIGNATURE

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044865		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/25/08	09/25/08	10:59	11:13		

REFERENCE	ORIGIN
STASH	OTHER

Scale 1 Gross Wt. 106600 LB
Scale 2 Tare Wt. 38220 LB
Net Weight 68380 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
34.19	TON	23 SOIL DISPOSAL-IC				

erating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J12

NET AMOUNT
TENDERED
CHECK NO.

SIGNATURE

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044929		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/25/08	09/25/08	14:39	15:00		

REFERENCE	ORIGIN
STASH	OTHER

Manual Gross Wt. 109480 LB
Scale 2 Tare Wt. 38280 LB
Net Weight 71200 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
35.60	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J12

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	044758		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/24/08	09/24/08	14:41	14:57	ACC8	

REFERENCE	ORIGIN
BERNIE	OTHER

Scale 1 Gross Wt. 108100 LB
Scale 2 Tare Wt. 38660 LB
Net Weight 69440 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
34.72	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHECK NO

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J TRK 8

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHTMASTER
39	044866		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/25/08	09/25/08	11:11	11:24		

REFERENCE	ORIGIN
JANI	OTHER

Inbound - Charge ticket

Scale 1 Gross Wt.	107240	LB
Scale 2 Tare Wt.	40300	LB
Net Weight	66940	LB

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
33.47	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHECK NO

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J13

TO REORDER CONTACT NORTH STAR FORMS, LLC (877) 499-0492

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHTMASTER
39	044819		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/25/08	09/25/08	08:37	08:58		

REFERENCE	ORIGIN
JANI	OTHER

Inbound - Charge ticket

Scale 1 Gross Wt.	107040	LB
Scale 2 Tare Wt.	40440	LB
Net Weight	66600	LB

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
33.30	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHECK NO

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J13

LLC dba LRI-304th
Meridian St E
allup, WA 98375

130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

39	044934		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/25/08	09/25/08	14:50	15:04		

REFERENCE	ORIGIN
JANI	OTHER

Inbound - Charge ticket

Manual Gross Wt.	110800	LB
Scale 2 Tare Wt.	40360	LB
Net Weight	70440	LB

QTY	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
35.22	TON	23 SOIL DISPOSAL-IC				

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

NET AMOUNT
TENDERED
CHECK NO

PO # WDA 1267
NOTES MISS J13

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

30 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	045728		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/02/08	10/02/08	08:23	08:44		

REFERENCE	ORIGIN
	OTHER

Scale 1 Gross Wt. 102360 LB
Scale 2 Tare Wt. 38300 LB
Net Weight 64060 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
32.03	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHECK NO

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES KING TRUCKING 10

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	045781		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/02/08	10/02/08	10:50	11:06		

REFERENCE	ORIGIN
	OTHER

Scale 1 Gross Wt. 100860 LB
Scale 2 Tare Wt. 38700 LB
Net Weight 62160 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
31.08	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO

rating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
4th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES KING TRUCKING

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

30 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	045833		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/02/08	10/02/08	13:10	13:27		

REFERENCE	ORIGIN
	OTHER

Scale 1 Gross Wt. 100820 LB
Scale 2 Tare Wt. 38460 LB
Net Weight 62360 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
31.18	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHECK NO

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA1267
NOTES KING TRUCKING

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	045875		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/02/08	10/02/08	15:28	15:50		

REFERENCE	ORIGIN
	OTHER

Scale 1 Gross Wt. 101420 LB
Scale 2 Tare Wt. 37960 LB
Net Weight 63460 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
31.73	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO

erating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES KING TRUCKING

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

30 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	045865		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/02/08	10/02/08	14:59	15:13		

REFERENCE	ORIGIN
	OTHER

Inbound - Charge ticket

Scale 1 Gross Wt.	102020	LB
Scale 2 Tare Wt.	39000	LB
Net Weight	63020	LB

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
31.51	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES DOUBLE H TRUCKING

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	045822		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/02/08	10/02/08	12:54	13:05		

REFERENCE	ORIGIN
	OTHER

Inbound - Charge ticket

Scale 1 Gross Wt.	96260	LB
Scale 2 Tare Wt.	39100	LB
Net Weight	57160	LB

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
28.58	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES DOUBLE H TRK

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

30 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	045775		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/02/08	10/02/08	10:43	10:57		

REFERENCE	ORIGIN
	OTHER

Inbound - Charge ticket

Scale 1 Gross Wt.	104100	LB
Scale 2 Tare Wt.	39380	LB
Net Weight	64720	LB

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
32.36	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES DOUBLE H TRK

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	045715		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/02/08	10/02/08	08:13	08:31		

REFERENCE	ORIGIN
	OTHER

Inbound - Charge ticket

Scale 1 Gross Wt.	98960	LB
Scale 2 Tare Wt.	39720	LB
Net Weight	59240	LB

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
29.62	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO

rating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
4th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES DOUBLE H TRK

SIGNATURE

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	045872		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/02/08	10/02/08	15:17	15:36		

REFERENCE	ORIGIN
DONNY	OTHER

Inbound - Charge ticket

Scale 1 Gross Wt.	106840	LB
Scale 2 Tare Wt.	40480	LB
Net Weight	66360	LB

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
33.18	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA1267
NOTES MISS J13

S TO REORDER CONTACT NORTH STAR FORMS, LLC (877) 499-0492

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	045825		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/02/08	10/02/08	12:56	13:11		

REFERENCE	ORIGIN
DONNY	OTHER

Inbound - Charge ticket

Scale 1 Gross Wt.	106320	LB
Scale 2 Tare Wt.	40720	LB
Net Weight	65600	LB

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
32.80	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO

erating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA1267
NOTES MISS J13

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

0 30 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	045777		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/02/08	10/02/08	10:44	10:58		

REFERENCE	ORIGIN
DONNY	OTHER

Scale 1 Gross Wt. 107920 LB
Scale 2 Tare Wt. 40980 LB
Net Weight 66940 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
33.47	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J13

S TO REORDER CONTACT NORTH STAR FORMS, LLC (877) 499-0492

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	045712		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/02/08	10/02/08	08:09	08:27		

REFERENCE	ORIGIN
DONNY	OTHER

Scale 1 Gross Wt. 107340 LB
Scale 2 Tare Wt. 40800 LB
Net Weight 66540 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
33.27	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

erating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J13

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	047579		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/16/08	10/16/08	15:51	16:01		

REFERENCE	ORIGIN
DONNY	OTHER

Scale 1 Gross Wt. 99440 LB
Scale 2 Tare Wt. 41400 LB
Net Weight 58040 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
29.02	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J7

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	047564		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/16/08	10/16/08	14:43	14:56		

REFERENCE	ORIGIN
KEVIN	OTHER

Scale 1 Gross Wt. 111100 LB
Scale 2 Tare Wt. 38200 LB
Net Weight 72900 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
36.45	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO

rating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES SHELDON TRK

SIGNATURE

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	047525		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/16/08	10/16/08	12:25	12:37		

REFERENCE	ORIGIN
KEVIN	OTHER

Inbound - Charge ticket

Scale 1 Gross Wt.	105260	LB
Scale 2 Tare Wt.	38380	LB
Net Weight	66880	LB

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
33.44	TON	23 SOIL DISPOSAL-IC				

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

PO # WDA 1267
NOTES SHELDON TRK

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	047489		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/16/08	10/16/08	10:24	10:35		

REFERENCE	ORIGIN
KEVIN	OTHER

Inbound - Charge ticket

Scale 1 Gross Wt.	106980	LB
Scale 2 Tare Wt.	38500	LB
Net Weight	68480	LB

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
34.24	TON	23 SOIL DISPOSAL-IC				

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

PO # WDA1267
NOTES SHELDON TRK KS1

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

30 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	047455		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/16/08	10/16/08	08:13	08:25		

REFERENCE	ORIGIN
KEVIN	OTHER

Scale 1 Gross Wt. 104340 LB
Scale 2 Tare Wt. 38600 LB
Net Weight 65740 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
32.87	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES SHELDON TRK KS1

3 TO REORDER CONTACT NORTH STAR FORMS, LLC (877) 499-0492 SIGNATURE

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	047448		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/16/08	10/16/08	08:06	08:17		

REFERENCE	ORIGIN
WAYNE	OTHER

Scale 1 Gross Wt. 99420 LB
Scale 2 Tare Wt. 38320 LB
Net Weight 61100 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
30.55	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

erating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J10

SIGNATURE

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	047487		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/16/08	10/16/08	10:17	10:26		

REFERENCE	ORIGIN
WAYNE	OTHER

Scale 1 Gross Wt. 103720 LB
Scale 2 Tare Wt. 38200 LB
Net Weight 65520 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
32.76	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J10

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	047523		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/16/08	10/16/08	12:21	12:31		

REFERENCE	ORIGIN
WAYNE	OTHER

Scale 1 Gross Wt. 104300 LB
Scale 2 Tare Wt. 38060 LB
Net Weight 66240 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
33.12	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

erating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA1267
NOTES MISS J10

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	047563		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/16/08	10/16/08	14:39	14:50		

REFERENCE	ORIGIN
WAYNE	OTHER

Scale 1 Gross Wt. 102300 LB
Scale 2 Tare Wt. 37920 LB
Net Weight 64380 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
32.19	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J10

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	047569		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/16/08	10/16/08	15:10	15:22		

REFERENCE	ORIGIN
JANI	OTHER

Scale 1 Gross Wt. 110100 LB
Scale 2 Tare Wt. 40620 LB
Net Weight 69480 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
34.74	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

2130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

39	048273		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/22/08	10/22/08	13:32	13:43	ACC10	

REFERENCE	ORIGIN
WAYNE	OTHER

Scale 1 Gross Wt. 96440 LB
Scale 2 Tare Wt. 38140 LB
Net Weight 58300 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
29.15	TON	23 SOIL DISPOSAL-IC				

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

PO # WDA 1267
NOTES MISS J 10

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

2130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

39	048226			Dana	
DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/22/08	10/22/08	11:15	11:15	ACC10	
REFERENCE		ORIGIN			
WAYNE		OTHER			

Manual Gross Wt. 94020 LB
Manual Tare Wt. 38300 LB
Net Weight 55720 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
27.86	TON	23 SOIL DISPOSAL-IC				

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

PO # WDA 67
NOTES MISS J 10

SIGNATURE

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

2130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	048215		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/22/08	10/22/08	10:54	11:14	ACC8	

REFERENCE	ORIGIN
BERNIE	OTHER

Scale 1 Gross Wt. 103920 LB
Manual Tare Wt. 38900 LB
Net Weight 65020 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
32.51	TON	23 SOIL DISPOSAL-IC				

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

PO # WDA 1267
NOTES MISS J 8

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	048160		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/22/08	10/22/08	08:22	08:33	ACC7	

REFERENCE	ORIGIN
TONY	OTHER

Scale 1 Gross Wt. 111840 LB
Scale 2 Tare Wt. 41280 LB
Net Weight 70560 LB

Inbound - Charge ticket

QTY	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
35.28	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J 7

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	048206		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/22/08	10/22/08	10:37	10:47	ACC7	

REFERENCE	ORIGIN
TONY	OTHER

Scale 1 Gross Wt. 101760 LB
Scale 2 Tare Wt. 41100 LB
Net Weight 60660 LB

Inbound - Charge ticket

QTY	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
30.33	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J 7

SIGNATURE

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	048170		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/22/08	10/22/08	08:40	08:50	ACC10	

REFERENCE	ORIGIN
WAYNE	OTHER

Scale 1 Gross Wt. 100740 LB
Scale 2 Tare Wt. 38460 LB
Net Weight 62280 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
31.14	TON	23 SOIL DISPOSAL-IC				

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

rating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
4th Landfill-30919 Meridian/SR 161, Graham, WA

PO # WDA 1267
NOTES MISS J 10

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

002130 AMERICAN CIVIL CONSTRUCTORS
PO BOX 80945
SEATTLE WA 98108

SITE	TICKET	GRID	WEIGHMASTER
39	048167		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/22/08	10/22/08	08:35	08:46	ACC8	

REFERENCE	ORIGIN
BERNIE	OTHER

Scale 1 Gross Wt. 108740 LB
Scale 2 Tare Wt. 39060 LB
Net Weight 69680 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
34.84	TON	23 SOIL DISPOSAL-IC				

erating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
4th Landfill-30919 Meridian/SR 161, Graham, WA

NET AMOUNT	
TENDERED	
CHANGE	
CHECK NO	

PO # WDA 1267
NOTES MISS J 6

SIGNATURE

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

597 ROADWAY CONSTRUCTION
P.O. BOX 1472
TACOMA WA 98401

SITE	TICKET	GRID	WEIGHMASTER
39	048632		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/24/08	10/24/08	15:12	15:20		

REFERENCE	ORIGIN
	OTHER

Scale 1 Gross Wt. 76980 LB
Scale 2 Tare Wt. 37940 LB
Net Weight 39040 LB

Inbound - Charge ticket

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
19.52	TON	09 CONSTRUCTION-IC				

perating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
04th Landfill-30919 Meridian/SR 161, Graham, WA

O # SOUND EXCAVATING
OTES TIMBERS

NET AMOUNT
TENDERED
CHANGE
CHECK NO.

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

597 ROADWAY CONSTRUCTION
P.O. BOX 1472
TACOMA WA 98401

SITE	TICKET	GRID	WEIGHMASTER
39	048579		Dana

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/24/08	10/24/08	12:25	12:35		

REFERENCE	ORIGIN
	OTHER

Inbound - Charge ticket

Scale 1 Gross Wt.	66520	LB
Scale 2 Tare Wt.	38280	LB
Net Weight	28240	LB

QTY	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
14.12	TON	09 CONSTRUCTION-IC				

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # SOUND EXCAVATION
NOTES WDA 1267

SIGNATURE _____

PCRCD, LLC dba LRI-304th
17925 Meridian St E
Puyallup, WA 98375

001597 ROADWAY CONSTRUCTION
P.O. BOX 1472
TACOMA WA 98401

SITE	TICKET	GRID	WEIGHMASTER
39	048820		Robin

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
10/27/08	10/27/08	13:14	13:24		

REFERENCE	ORIGIN
	OTHER

Inbound - Charge ticket

Scale 1 Gross Wt.	62860	LB
Scale 2 Tare Wt.	38140	LB
Net Weight	24720	LB

QTY	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
12.36	TON	09 CONSTRUCTION-IC				

NET AMOUNT

TENDERED

CHANGE

CHECK NO.

Operating hours 8AM to 4PM M-F & 8AM to Noon on Sat.
304th Landfill-30919 Meridian/SR 161, Graham, WA

PO # SOUND EXCAVATION TRK S1
NOTES TIMBERS

APPENDIX E
CLEANUP ACTION PHOTOGRAPHS

September 5, 2008. Installing Hig-vis-fence to protect the marsh and wetland.

September 5, 2008. Marsh and wetland area.

September 5, 2008. Demo of the pier decking.

September 15, 2008. Removal of the small railway piles from land.

September 15, 2008. Pier awaiting arrival of crane and marine demo crew.

September 15, 2008. Containment of the HazMat from HB-4.

September 19, 2008. Upland mixing area where saw dust and sediment were combined to reduce free water for transport and disposal.

September 19, 2008. Upland excavation equipment staged for night capping work.

September 22, 2008. Arrival of the crane and barge for demo and dredging.

September 22, 2008. Removal of pier piles.

September 24, 2008. Removal of small railway piles.

September 24, 2008. Excavation of sediment near the marsh and wetland.

October 17, 2008. Placement of the cap using the telescoping conveyor belt.

October 17, 2008. Placement of the sand cap.

October 18, 2008. Placement of the sand cap.

October 18, 2008. Cap after the rock mix was placed.

October 30, 2008. Construction and stabilization of the stream outlet at the new shoreline.

November 6, 2008. Application of the hydroseed after completion of soil disturbing activities.

November 6, 2008. Hydroseeded upland with view of marsh/wetland, brickhouse, and boathouse.

November 10, 2008. Loading the Haz-mat containers into the transport truck.

December 5, 2008. New shoreline and upland with germinating grass seed.

January 9, 2009. New shoreline and upland with germinating hydroseed.

January 9, 2009. New shoreline and upland with germinating hydroseed.

January 2009. New shoreline, upland with germinating hydroseed, and view of Harbor.

April/May, 2011. AHA-1. Additional cleanup measures.

April/May, 2011. AHA-1. Additional cleanup measures.