Sample ID: RG79 H9 Mode: TOC
Method: Boat Sampler Filename: 08061249
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 12:53
Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	16883.8418	48.9631	12868755	16.895	17.895	174

Sample ID: RG79 O9 Mode: TOC
Method: Boat Sampler Filename: 08061300
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 13:04
Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	18222.8262	60.1353	15805088	17.134	18.133	184

Sample ID: RG79 P9 Mode: TOC
Method: Boat Sampler Filename: 08061311
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 13:15
Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5580.1279	20.0885	5279756	17.033	18.029	146

Sample ID: RG79 Q9 Mode: TOC
Method: Boat Sampler Filename: 08061326
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 13:32
Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4300.2119	15.0507	3955716	17.208	18.207	141

Sample ID: RG60 E8 Mode: TOC
Method: Boat Sampler Filename: 08061336
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 13:39
Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3951.7202	15.8069	4154449	17.411	18.408	125

Sample ID: RG60 F8 Mode: TOC
Method: Boat Sampler Filename: 08061347
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 13:50
Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5644.4658	11.8534	3115368	17.319	18.317	99

Sample ID: RG58 E3 Mode: TOC
Method: Boat Sampler Filename: 08061356
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 13:59
Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	774.5266	2.4010	631052	17.259	18.256	86

Sample ID: RG58 F8 Mode: TOC
Method: Boat Sampler Filename: 08061406
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 14:09
Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	765.3978	2.1431	563265	17.274	18.269	79

Sample ID: RG58 K8 Mode: TOC
Method: Boat Sampler Filename: 08061447
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 14:50
Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2828.6350	7.3545	1932936	17.166	18.159	103

Sample ID: RG58 L8 Mode: TOC
Method: Boat Sampler Filename: 08061453
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 14:58
Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	62.0718	0.2483	65256	17.161	17.388	120

Last Message: Low Sample Detected

Sample ID: CVS BOAT 1000 Mode: TOC
Method: Boat Sampler Filename: 08061502
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 15:05
Operator ID: CARLOS Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	954.7472	38.1899	9790347	17.542	18.539	135

Sample ID: ICB BOAT Mode: TOC
Method: Boat Sampler Filename: 08061509
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 15:12
Operator ID: CARLOS Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	28.2403	1.1296	49967	17.467	17.415	120

Last Message: Low Sample Detected

Sample ID: RG58 L8 Mode: TOC
Method: Boat Sampler Filename: 08061517
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 15:21
Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	580.3285	6.4997	1708281	17.293	18.291	171

Sample ID: RG58 R8 Mode: TOC
Method: Boat Sampler Filename: 08061524
Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 15:27
Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1809.1215	9.9502	2615156	17.521	18.518	136

Sample ID: RG58 S8
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: CARLOS

Mode: TOC
Filename: 08061530
Timestamp: 2010/08/06 15:33
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	655.3009	4.1939	1102270	17.660	18.658	124

Sample ID: NBS 8704
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: CARLOS

Mode: TOC
Filename: 08061536
Timestamp: 2010/08/06 15:44
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	33930.9727	81.4343	21156084	17.790	18.785	262

Sample ID: CVS BOAT 1000
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: CARLOS

Mode: TOC
Filename: 08061547
Timestamp: 2010/08/06 15:51
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	927.8040	37.1122	9507094	18.574	19.570	142

Sample ID: ICB BOAT
Method: Boat Sampler
Cal. Curve: BOAT CAL 07232010
Operator ID: CARLOS

Mode: TOC
Filename: 08061554
Timestamp: 2010/08/06 15:56
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	38.5515	1.5421	158370	18.680	19.680	61

Table of Contents: ARI Job RG79

Client: Floyd/Snider

Project: POS-LLA Lora Lake RI

A Joshi
Signature

August ~~12~~ 27-2010
Date

Table of Contents: ARI Job RG79

Client: Floyd/Snider

Project: POS-LLA Lora Lake RI

Signature

August-12-2010
Date

Analytical Resources, Incorporated
Analytical Chemists and Consultants

August 27, 2010

Jessi Massingale
Floyd-Snider Inc.
601 Union Street, Suite 600
Seattle, WA 98101-2341

RE: Client Project: Lora Lake RI
ARI Job No: RG79

Dear Ms. Massingale:

Please find enclosed the original Chain-of-Custody (COC) records, sample receipt documentation, and the final data package for samples from the project referenced above.

Sample receipt and detail of these 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 D. Dunnihoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures

cc: eFile RG79

SD/co

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

Chain of Custody Documentation

ARI Job ID: RG79

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: RG79	Turn-around Requested: Standard	Page: 1 of 1	
ARI Client Company: Floyd Snider	Phone: 206-292-2078	Date: 7/30/10	Ice Present? yes
Client Contact: M. McCullough / J. Massingale		No. of Coolers: 4	Cooler Temps: 3.7
Client Project Name: Iona Lake RI			
Client Project #: POS-LLA	Samplers: MM, KA, TS		

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	cPAH (8270)	PLP (8041)	NWTPH-Dx	NWTPH-Gx + BETX (8021)	As+Pb (6010)	VOCs - Sox list (8260C)	TOC (Plumb)	Dioxin (1613)	Archive	Notes/Comments
PSB11-0-0.5-073010	7/30/10	09:26	S	8	✓	✓	✓	✓	✓	✓		✓		
PSB11-1.5-2-073010		09:20		7	✓	✓	✓	✓	✓	✓		✓		for volume - send 4oz to Frontier for Dioxin - run for other analytes - wants low priority.
PSB11-2-4-073010		09:28		8	✓	✓	✓	✓	✓	✓		✓		
PSB11-2-4-073010-D		09:30		8	✓	✓	✓	✓	✓	✓		✓		
PSB11-4-6-073010		09:39		20	✓	✓	✓	✓	✓	✓			✓	run MS/MSD
PSB11-7.5-9.5-073010		08:55		9									✓	ARCHIVE ALL
PSB11-11-13-073010		09:38		9	✓	✓	✓	✓	✓	✓	✓		✓	
PSB11-14-16-073010		09:45		9	✓	✓	✓	✓	✓	✓	✓		✓	
PSB11-23-24-073010		09:10	↓	1			✓							
PSB11-TB		18:10	W	2				✓		✓				

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Megan McCullough	Printed Name: Jennifer Millsap	Printed Name:	Printed Name:
	Company: F/S	Company: ARI	Company:	Company:
	Date & Time: 7/31/10 10:10	Date & Time: 7/31/10 1010	Date & Time:	Date & Time:

RG79 0003

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: RG79	Turn-around Requested: Standard	Page: 1 of 1	
ARI Client Company: Floyd Snider	Phone: 206-292-2078	Date: 7/30/10	Ice Present? Yes
Client Contact: Meg McCullough / J. Massjuk		No. of Coolers: 4	Cooler Temps: 3.0
Client Project Name: Lora Lake RI			
Client Project #: 205-LLA	Samplers: MM, TS, KA		

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: PAH (8270)	PCP (8041)	NWTPH-Dx	NWTPH-Gx + BETX (8021)	As + Pb (6010)	VOCs - Sec Proj List (8260C)	TOC (Plumb)	Dioxin (1613)	Archive (Dioxin)	Notes/Comments
PSB15-0-0.5-073010	7/30/10	16:20	S	8	✓	✓	✓	✓	✓	✓		✓		
PSB15-1.5-2-073010		17:00		8	✓	✓	✓	✓	✓	✓		✓		
PSB15-2-4-073010		16:45		8	✓	✓	✓	✓	✓	✓		✓		
PSB15-4-6-073010		1658		8	✓	✓	✓	✓	✓	✓		✓		
PSB15-13-15-073010		16:40		9	✓	✓	✓	✓	✓	✓	✓	✓		
PSB15-17-19-073010		16:22		9	✓	✓	✓	✓	✓	✓	✓	✓		
PSB15-17-19-073010-D		16:37		9	✓	✓	✓	✓	✓	✓	✓	✓		
PSB15-24-25-073010		16:47	↓	9									✓	ARCHIVE ALL
PSB15-TB	↓	18:20	W	2				✓		✓				

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Meg McCullough	Printed Name: Jennifer Milsap	Printed Name:	Printed Name:
	Company: F/S	Company: ARI	Company:	Company:
	Date & Time: 7/31/10 10:10	Date & Time: 7/31/10 1010	Date & Time:	Date & Time:

RG79: 0951

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Floyd Snider
Project Name: Cora Lake RI
COC No(s): _____ NA
Delivered by: Fed-Ex UPS Courier (Hand Delivered) Other: _____
Assigned ARI Job No: RG79
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)	3.7 3.0 2.1 (JM) 3.1 (JM)	
If cooler temperature is out of compliance fill out form 00070F	Temp Gun ID#: 90877952	

Cooler Accepted by: JM Date: 7/31/10 Time: 1015

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
Date VOC Trip Blank was made at ARI	NA	7/23/10	

Was Sample Split by ARI: (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JM Date: 8/2/10 Time: 1630

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

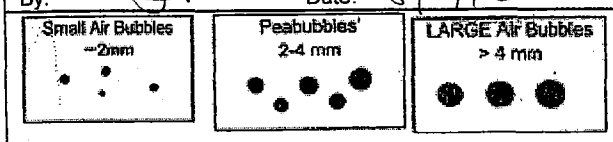
Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

PSB11-TB = ~~Air~~ pb in 2 of 2
PSB15-TB = pb in 2 of 2

1-MeOH preserved bottle for PSB11-7.5-9.5-073010 was received with no sample. Bottle was put on hold.

By: JM Date: 8/2/10



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

Case Narrative, Data Qualifiers, Control Limits

ARI Job ID: RG79

Case Narrative

Client: Floyd Snider
Project: Lora Lake RI
ARI Job No.: RG58

Sample receipt

Analytical Resources, Inc. (ARI) accepted seventeen soil samples and two trip blanks on July 31, 2010 under ARI job RG79. The cooler temperatures measured by IR thermometer following ARI SOP were 3.0 and 3.7°C. For details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

Dioxin/Furan analyses were subcontracted to Frontier Analytical Laboratory in El Dorado Hills, CA. The dioxin data on CD as generated by Frontier is forwarded with this package.

Volatiles by SW8260C

The samples and associated laboratory QC were analyzed within 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 and LCSD percent recoveries were within control limits.

Several matrix spike and matrix spike duplicate percent recoveries fell outside advisory control limits low for sample **PSB11-4-6-073010**. No corrective action is required for matrix QC.

PAHs by SW8270D

The samples were initially screened to determine if a response was present that would require modifications in the extraction process. No modifications were required. The samples and associated laboratory QC were initially extracted and analyzed within the method recommended holding times.

Sample **PSB15-13-15-073010** was re-extracted within method recommended holding times for samples stored frozen. Only the re-extracted sample results have been reported.

Initial and continuing calibrations were within method requirements. Internal standards were within limits.

The surrogate percent recoveries were within control limits.

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

The matrix spike and matrix spike duplicate percent recoveries were within advisory control limits.

In response to comments from NELAP and DOD auditors, ARI will now report the 'total' benzofluoranthenes rather than the individual compounds. This total will include the response of the b, k and j isomers.

Pentachlorophenol by SW8041

The samples and associated laboratory QC were extracted and analyzed within the method recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

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

The matrix spike duplicate percent recovery was outside the advisory control limits high for sample **PSB11-4-6-073010**. No corrective action is required for matrix QC.

Acid/Silica Cleaned NWTPH-Dx

The samples and associated laboratory QC were extracted and analyzed within the method recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limits. The LCS percent recovery was within control limits.

The matrix spike and matrix spike duplicate percent recoveries were within advisory control limits.

BETX by SW8021B Mod and NWTPH-Gx

The samples and associated laboratory QC were analyzed within the method recommended holding times.

Initial and continuing calibrations were within method requirements. .

The surrogate percent recoveries were within control limits.

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

The matrix spike and matrix spike duplicate percent recoveries were within advisory control limits.

Total Arsenic and Lead by SW846 6010B

The samples and associated laboratory QC were digested and analyzed within the method recommended holding time.

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

The SRM results were within advisory ranges.

The matrix spike percent recoveries were within control limits.

The duplicate RPD of lead was outside the control limit for sample **PSB11-4-6-073010**. All relevant data have been flagged with a "*" qualifier on the appropriate Form VI. No further corrective action was taken.

General Chemistry (TOC/TS)

The samples and associated laboratory QC were prepared and analyzed within the method recommended holding time.

The method blanks were clean at the reporting limits. The LCS percent recovery was within control limits.

The SRM percent recovery was within limits.

The batch matrix spike percent recovery and replicate RSDs were within control limit. Copies of the summary form have been included in this report.

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

7/3/2010

SURR SOLUTIONS

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
A	1732-2	ABN	100/150	MEOH	07/30/10
B	1747-2	SIM PNA	15/75	MEOH	10/07/10
C	1705-4	SIM ABN	25/37.5	MEOH	07/30/10
D	1742-1	LOW PCB	0.2	ACETONE	12/29/10
E	1661-2	HERB	62.5	MEOH	10/02/10
F	1683-3	PCP	12.5	ACETONE	12/09/10
G	1707-2	1,4DIOXANE	100	MEOH	03/19/11
H	1723-2	OP-PEST	25	MEOH	04/02/11
I	1747-1	LOW S. PNA	1.5	MEOH	10/07/10
J	1681-2	TBT-PORE	0.125	MECL2	12/01/10
K	1689-1	MED PCB	20	ACETONE	12/29/10
L	1681-1	TBT	2.5	MECL2	12/01/10
M	1682-1	EPH	1500	MECL2	09/17/10
N	1689-3	PCB	2	ACETONE	12/29/10
O	1740-1	TPH	450	MECL2	12/11/10
P	1742-2	HCID	2250	MECL2	05/13/11
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	01/13/11
T	1674-2	ALKYL PNA	10	MEOH	07/30/10
U	1633-1	CONGENER	2.5	ACETONE	08/11/10
V					
*reverified solution					

LCS SOLUTIONS

7/3/2010

LABL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
1	1716-1	PCB 1660	20	ACETONE	03/30/11
2#		BCOC PEST	10	ACETONE	NA
3	1705-3	PEST	02/04/20	ACETONE	03/08/11
4	1744-3	LOW PEST	0.2/0.4/2	ACETONE	03/08/11
5	1677-1	EPH	1500	MECL2	11/12/10
6	1702-2	PCP	12.5/125	ACETONE	02/18/11
7	1738-2	ABN	100	ACETONE	01/31/11
8	1681-4	TBT	2.5	MECL2	12/01/10
9	1682-2	PORE TBT	.125/.25	MECL2	12/01/10
10	1698-2	ABN ACID	100/200	MECL2	07/14/10
11	1730-2	TPHD	15000	ACETONE	04/26/11
12	1741-2	ABN BASE	200	MEOH	07/24/10
13	1716-2	LOW PCB	2	ACETONE	03/30/11
14	1730-1	LOW ABN ACID	10/20	MEOH	07/14/10
15	1726-3	SIM PNA	15/75	MEOH	10/07/10
16	1707-1	DIOXANE	100	MEOH	11/05/10
17	1644-1	1248 PCB	10	ACETONE	09/10/10
18	1726-4	LOW SIM PNA	1.5	ACETONE	10/07/10
19	1746-3	AK103	7500	ACETONE	12/01/10
20	1682-4	PNA	100	ACETONE	12/04/10
21	1725-1	SKY/BHT	100	MEOH	03/18/11
22	1728-1	HERB	12.5/12500	MEOH	10/20/10
23	1706-1	LW ABN BASE	20	MEOH	03/08/11
24	1696-1	LOW ABN	10	ACETONE	01/13/11
25#		DIPHENYL	100	MEOH	NA
26	1723-3	OP-PEST	25	MEOH	11/20/10
27	1668-3	STEROLS	200	MEOH	10/30/10
28#		ADD. PEST	4	ACETONE	NA
29#		DECANES	100	MEOH	NA
30	1620-1	EDB/DBCP	0.2	MEOH	06/22/10

LCS SOLUTIONS

7/3/2010

31	1707-3	TERPINEOL	100	MEOH	03/19/11
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	1674-3	ALKYL PNA A	10	MEOH	10/28/10
36	1601-3	ALKYL PNA B	10	MEOH	05/13/10
50	1617-1	FULL RESIN	250	ACETONE	06/17/10
51	1696-3	DDTS	2.5	ACETONE	06/03/10
52	1613-5	1232 PCB	20	ACETONE	06/16/10
53	1703-3	DALAPON	50	MEOH	09/11/10
54	1701-2	PBDE	0.5	ACETONE	02/10/11
#=PROJECT SPECIFIC SOLUTION					
*=REVERIFIED SOLUTION					

Analytical Resources,Incorporated
Analytical Chemists and Consultants

Spike Recovery Control Limits for Analysis of Solid Samples Volatile Organic Compounds (VOA) EPA SW-846 Methods 8260C 5 mL Purge Volume [7]

Effective:5/18/09

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

	Low Level [1]	Low Level ME Limits [3]	Medium Level [2]	Medium Level ME Limits [3]
LCS Spike Recovery [8]				
Dichlorodifluoromethane	53 - 148	37 - 164	25 - 128	**10** - 145
Chloromethane	64 - 125	54 - 135	55 - 121	44 - 132
Vinyl Chloride	63 - 137	51 - 149	66 - 123	57 - 133
Bromomethane	57 - 136	44 - 149	40 - 154	21 - 173
Chloroethane	64 - 131	53 - 142	72 - 128	63 - 137
Trichlorofluoromethane	69 - 132	59 - 143	69 - 135	58 - 146
Acrolein	54 - 137	40 - 151	39 - 135	23 - 151
1,1,2-Trichloro-1,2,2-trifluoroethane	74 - 130	65 - 139	65 - 139	53 - 151
Acetone	60 - 131	48 - 143	55 - 130	43 - 143
1,1-Dichloroethene	75 - 126	67 - 135	73 - 133	63 - 143
Bromoethane	76 - 126	68 - 134	74 - 133	64 - 143
Methyl Iodide	65 - 139	53 - 151	47 - 155	29 - 173
Methylene Chloride	70 - 123	61 - 132	**80 - 120**	75 - 122
Acrylonitrile	67 - 125	57 - 135	62 - 129	51 - 140
Methyl tert-Butyl Ether	70 - 120	62 - 128	69 - 128	59 - 138
Carbon Disulfide	71 - 129	61 - 139	64 - 135	52 - 147
trans-1,2-Dichloroethene	80 - **120**	74 - 126	78 - 125	70 - 133
Vinyl Acetate	60 - 136	47 - 149	66 - 132	55 - 143
1,1-Dichloroethane	**80 - 120**	75 - 124	77 - 124	69 132
2-Butanone	70 - **120**	62 - 127	65 - 126	55 - 136
2,2-Dichloropropane	74 - 123	66 - 131	75 - 127	66 - 136
cis-1,2-Dichloroethene	**80 - 120**	76 - 123	**80** - 125	74 - 132
Chloroform	80 - **120**	74 - 123	**80** - 124	73 - 131
Bromodichloromethane	77 - 121	70 - 128	78 - 130	69 - 139
1,1,1-Trichloroethane	77 - 121	70 - 128	76 - 130	67 - 139
1,1-Dichloropropene	**80 - 120**	77 - 123	77 - 131	68 - 140
Carbon Tetrachloride	77 - 122	70 - 130	74 - 129	65 - 138
1,2-Dichloroethane	76 - **120**	69 - 123	73 - 123	65 - 131
Benzene	**80** - 120	80 - 126	**80 - 120**	75 - 130
Trichloroethene	**80 - 120**	77 - 123	**80** - 125	75 - 132
1,2-Dichloropropane	**80 - 120**	76 - 120	**80** - 122	74 - 129
Bromochloromethane	80 - 120	73 - 127	**80** - 127	73 - 135
Dibromomethane	80 - **120**	74 - 121	**80** - 121	76 - 128
2-Chloroethylvinylether	**10** - 191	**10** - 222	61 - 128	50 - 139

Spike Recovery Control Limits for Analysis of Solid Samples Volatile Organic Compounds (VOA) EPA SW-846 Methods 8260C 5 mL Purge Volume [7]

Effective:5/18/09

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

	Low Level [1]	Low Level ME Limits [3]	Medium Level [2]	Medium Level ME Limits [3]
4-Methyl-2-Pentanone	67 - **120**	59 - 125	80 - 123	73 - 130
cis-1,3-Dichloropropene	74 - **120**	67 - 125	80 - 122	73 - 129
Toluene	**80** - **120**	79 - **120**	**80** - 122	**80** - 127
trans-1,3-Dichloropropene	65 - **120**	57 - 125	**80** - 123	79 - 129
2-Hexanone	65 - 130	54 - 141	58 - 129	46 - 141
1,1,2-Trichloroethane	**80** - **120**	75 - 122	**80** - 120	77 - 126
1,3-Dichloropropane	80 - **120**	74 - 122	**80** - 120	76 - 126
Tetrachloroethene	**80** - 121	79 - 127	**80** - 130	73 - 138
Dibromochloromethane	64 - **120**	55 - 128	77 - 120	70 - 127
Ethylene Dibromide	75 - **120**	68 - 124	**80** - **120**	**80** - 120
Chlorobenzene	**80** - **120**	82 - 120	**80** - 121	80 - 127
Ethylbenzene	**80** - 127	80 - 134	**80** - 126	**80** - 132
1,1,2,2-Tetrachloroethane	74 - 120	66 - 128	79 - **120**	73 - 123
m,p-Xylene	**80** - 125	**80** - 131	**80** - 130	**80** - 137
o-Xylene	78 - **120**	71 - 126	**80** - 124	**80** - 130
Styrene	**80** - 123	78 - 130	**80** - 132	77 - 140
Isopropylbenzene	**80** - 127	84 - 133	**80** - 130	**80** - 137
Bromoform	60 - **120**	50 - 128	68 - 129	58 - 139
1,1,1,2-Tetrachloroethane	69 - 121	60 - 130	**80** - 126	76 - 133
1,2,3-Trichloropropane	72 - 121	64 - 129	77 - **120**	71 - 121
trans-1,4-Dichloro-2-butene	65 - 126	55 - 136	66 - 127	56 - 137
n-Propylbenzene	**80** - 132	**80** - 139	**80** - 132	77 - 140
Bromobenzene	**80** - **120**	78 - 122	**80** - 121	80 - 127
1,3,5-Trimethylbenzene	**80** - 125	**80** - 131	78 - 137	68 - 147
2-Chlorotoluene	**80** - 125	77 - 132	**80** - 123	**80** - 129
4-Chlorotoluene	**80** - 127	77 - 134	**80** - 130	74 - 138
tert-Butylbenzene	87 - 122	**80** - 128	**80** - 133	78 - 141
1,2,4-Trimethylbenzene	**80** - 126	**80** - 132	**80** - 131	79 - 139
sec-Butylbenzene	**80** - 134	80 - 142	**80** - 136	76 - 146
4-Isopropyltoluene	**80** - 131	**80** - 138	**80** - 141	71 - 151
1,3-Dichlorobenzene	**80** - 120	**80** - 126	**80** 126	77 - 133
1,4-Dichlorobenzene	**80** - 120	79 - 126	**80** 121	77 - 127
n-Butylbenzene	**80** - 138	**80** - 146	**80** - 138	77 - 147
1,2-Dichlorobenzene	**80** - **120**	78 - 122	**80** - **120**	**80** - 121
1,2-Dibromo-3-chloropropane	59 - 120	49 - 130	67 - 121	58 - 130
1,2,4-Trichlorobenzene	78 - 130	69 - 139	**80** - 133	72 - 142

Spike Recovery Control Limits for Analysis of Solid Samples Volatile Organic Compounds (VOA) EPA SW-846 Methods 8260C 5 mL Purge Volume [7]

Effective:5/18/09

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

	Low Level [1]	Low Level ME Limits [3]	Medium Level [2]	Medium Level ME Limits [3]
Hexachloro-1,3-butadiene	76 - 129	67 - 138	62 - 148	48 - 162
Naphthalene	66 - **120**	58 - 126	74 - 133	64 - 143
1,2,3-Trichlorobenzene	73 - 123	65 - 131	80 - 126	72 - 134
MB/LCS Surrogate Recovery				
Dibromofluoromethane	**80 - 120**	(4)	**80 - 120**	(4)
d4-1,2-Dichloroethane	79 - 121	(4)	76 - **120**	(4)
d8-Toluene	**80 - 120**	(4)	**80 - 120**	(4)
4-Bromofluorobenzene	**80 - 120**	(4)	**80 - 120**	(4)
d4-1,2-Dichlorobenzene	**80 - 120**	(4)	**80 - 120**	(4)
Sample Surrogate Recovery				
Dibromofluoromethane	30 - 160[6]	(4)	30 - 160[6]	(4)
d4-1,2-Dichloroethane	75 - 152	(4)	69 - **120**	(4)
d8-Toluene	82 - 115	(4)	**80 - 120**	(4)
4-Bromofluorobenzene	64 - **120**	(4)	76 - 128	(4)
d4-1,2-Dichlorobenzene	**80 - 120**	(4)	**80 - 120**	(4)

(1) Control Limits calculated using all data generated 1/1/08 through 12/31/08.
(2) Control Limits calculated using all data generated 3/1/07 through 11/15/07.
(3) **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 four marginal exceedances are acceptable. Five or more marginal exceedances require corrective action.
(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) 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
(7) Highlighted control limits (**bold font**) are adjusted from the calculated values as follows:
a) ARI does not use control limits < 10
b) Control limits for analyzes with no separate preparation procedure are adjusted to reflect the minimum uncertainty in the calibration of the instrument allowed by the referenced analytical method.
(8) 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.

Summary of Laboratory Control Limits

Default limits of 30-160% recovery and 30% RPD apply for all organic analytes when laboratory generated control limits are not available on ARI's web site. Default limits for all inorganic analytes are 75-125% recovery and 25% RPD.

ARI's laboratory generated Quality Control Limits may be superseded by project specific data quality objectives (DQO) provided by ARI's clients. The use of project specific DQO must be approved by ARI's Laboratory and QA Program Managers.

Analytical Resources,Incorporated
Analytical Chemists and Consultants

Spike Recovery Control Limits for Chlorinated Phenols
EPA Method SW-846-8041[1,2]

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

	ARI's Calculated Control Limits	
Sample Matrix:	Water	Soil / Sediment
Sample Amount / Final Volume:	500 / 50 mL	10 g / 25 mL
LCS Spike Recovery [3]		
Pentachlorophenol	27 - 115	**10** - 162
Method Blank/LCS Surrogate Recovery		
2,4,6-Tribromophenol	40 - 130	50 - 115
Sample Surrogate Recovery		
2,4,6-Tribromophenol	11 - 156	**10** - 146

(1) ARI's Control limits calculated using all available spike recovery data from 1/1/08 through 12/1/08.
(2) Highlighted control limits (**bold font**) adjusted to demonstrate that ARI does not use control limits < 10.
(3) 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.

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Spike Recovery Control Limits Hydrocarbon Identification (NWTPH-HCID) and Diesel Range Petroleum Hydrocarbons (NWTPH-D & AK-102) [1]

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

Method:	NWTPH-HCID [2]	NWTPH-D		AK102 [2]
Sample Matrix:	Water& Soil	Water	Soil	Water & Soil
Preparation:	500 to 1 mL	500 to 1 mL	10g to 1 mL	500 to 1 mL or 10g to 1 mL
LCS Spike Recovery [3]				
Diesel	-- - --	56 - 103	55 - 104	75 - 125
Diesel with Acid & Silica Clean-up	-- - --	43 - 100	54 - 96	(4)
Diesel with Silica Clean-up	-- --	43 - 100	54 - 96	75 - 125
Method Blank/LCS Surrogate Recovery				
o-Terphenyl	-- - --	57 - 120	58 - 121	60 - 120
o-Terphenyl with Acid & Silica Clean-up	-- - --	51 - 120	63 - 115	(4)
o-Terphenyl Silica Clean-up		51 - 120	63 - 115	60 - 120
Sample Surrogate Recovery				
o-Terphenyl	50 - 150	35 - 131	53 - 118	50 - 150
o-Terphenyl with Acid & Silica Clean-up	-- - --	41 - 121	49 - 120	(4)
o-Terphenyl with Silica Clean-up		41 - 121	49 - 120	50 - 150

1. Control Limits calculated using all data generated 1/1/08 through 12/31/08
2. Method specified, non-prescriptive limits. The NWTPH-HCID Method does not include LCS or MS analyses.
3. 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.
4. Alaska State UST Methods do not allow acid cleanup of sample extracts.

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Spike Recovery Control Limits BTEX – EPA Method 8021 & Gasoline – Methods NWTPH-G and AK101[1,2]

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:	**Aqueous Samples**		**Soil / Sediment Samples**	
Analytical Method:	Method 8021B	NWTPH-G AK-101	Method 8021B	NWTPH-G AK-101
LCS Spike Recovery [3]				
Benzene	73 - **120**		72 - **120**	
Toluene	73 - **120**		72 - **120**	
Ethyl benzene	69 - **120**		71 - **120**	
m,p-Xylenes	72 - **120**		72 - **120**	
o-Xlyene	73 - **120**		72 - **120**	
MTBE	30 - 182		40 - 163	
Gasoline		75 - 124		74 - 124
Method Blank/LCS Surrogate Recovery				
Trifluorotoluene (TFT)	79 - **120**	**80 - 120**	80 - **120**	**80 - 120**
Bromobenzene	79 - **120**	**80 - 120**	77 - **120**	**80 - 120**
Sample Surrogate Recovery				
Trifluorotoluene (TFT)	**80 - 120**	**80** - 120	68 - 124	66 - 123
Bromobenzene	**80 - 120**	**80** - 120	62 - 134	62 - 130

(1) Control Limits calculated using all data generated 1/1/08 through 12/31/08.
(2) Highlighted control limits (bold font) are adjusted from the calculated values as follows:
a) 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.
b) Control limits for analytes with no separate preparation procedure are adjusted to reflect the minimum uncertainty in the calibration of the instrument allowed by the referenced analytical method.
(3) 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.

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Summary of Laboratory Control Limits Metals Analyses (All Methods & Sample Matrices)

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

Element	Matrix Spike Recovery	LCS Recovery	Replicate RPD
Aluminum	75 - 125	80 - 120	≤ 20%
Antimony	75 - 125	80 - 120	≤ 20%
Arsenic	75 - 125	80 - 120	≤ 20%
Barium	75 - 125	80 - 120	≤ 20%
Beryllium	75 - 125	80 - 120	≤ 20%
Boron	75 - 125	80 - 120	≤ 20%
Cadmium	75 - 125	80 - 120	≤ 20%
Calcium	75 - 125	80 - 120	≤ 20%
Chromium	75 - 125	80 - 120	≤ 20%
Cobalt	75 - 125	80 - 120	≤ 20%
Copper	75 - 125	80 - 120	≤ 20%
Iron	75 - 125	80 - 120	≤ 20%
Lead	75 - 125	80 - 120	≤ 20%
Magnesium	75 - 125	80 - 120	≤ 20%
Manganese	75 - 125	80 - 120	≤ 20%
Mercury	75 - 125	80 - 120	≤ 20%
Nickel	75 - 125	80 - 120	≤ 20%
Potassium	75 - 125	80 - 120	≤ 20%
Selenium	75 - 125	80 - 120	≤ 20%
Silica	75 - 125	80 - 120	≤ 20%
Silver	75 - 125	80 - 120	≤ 20%
Sodium	75 - 125	80 - 120	≤ 20%
Strontium	75 - 125	80 - 120	≤ 20%
Thallium	75 - 125	80 - 120	≤ 20%
Vanadium	75 - 125	80 - 120	≤ 20%
Zinc	75 - 125	80 - 120	≤ 20%

Analytical Resources,Incorporated
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Spike Recovery Control Limits for Conventional Wet Chemistry

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

	ARI's Control Limits	
Sample Matrix:	Water	Soil / Sediment
Matrix Spike Recoveries	% Recovery	% Recovery
Ammonia	75 - 125	75 - 125
Bromide	75 125	75 - 125
Chloride	75 125	75 - 125
Cyanide	75 - 125	75 - 125
Ferrous Iron	75 - 125	75 - 125
Fluoride	75 - 125	75 - 125
Formaldehyde	75 - 125	75 - 125
Hexane Extractable Material	-- - --	78 - 114
Hexavalent Chromium	75 - 125	75 - 125
Nitrate/Nitrite	75 - 125	75 - 125
Oil and Grease	75 - 125	75 - 125
Phenol	75 - 125	75 - 125
Phosphorous	75 - 125	75 - 125
Sulfate	75 - 125	75 - 125
Sulfide	75 - 125	75 - 125
Total Kjeldahl Nitrogen	75 - 125	75 - 125
Total Organic Carbon	75 - 125	75 - 125
Duplicate RPDs		
Acidity	±20%	±20%
Alkalinity	±20%	±20%
BOD	±20%	±20%
Cation Exchange	±20%	±20%
COD	±20%	±20%
Conductivity	±20%	±20%
Salinity	±20%	±20%
Solids	±20%	±20%
Turbidity	±20%	±20%

Volatile Analysis
Report and Summary QC Forms

ARI Job ID: RG79

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB11-0-0.5-073010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG79A
LIMS ID: 10-18505
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/05/10 14:37

Sample Amount: 9.31 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 9.6%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.5	< 0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	< 0.5	U
107-06-2	1,2-Dichloroethane	0.5	< 0.5	U
79-01-6	Trichloroethene	0.5	< 0.5	U
127-18-4	Tetrachloroethene	0.5	< 0.5	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	128%
d8-Toluene	100%
Bromofluorobenzene	77.2%
d4-1,2-Dichlorobenzene	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB11-1.5-2-073010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG79B
LIMS ID: 10-18506
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/05/10 15:02

Sample Amount: 8.69 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 8.6%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.6	< 0.6	U
156-59-2	cis-1,2-Dichloroethene	0.6	< 0.6	U
107-06-2	1,2-Dichloroethane	0.6	< 0.6	U
79-01-6	**Trichloroethene**	**0.6**	**0.8**	
127-18-4	**Tetrachloroethene**	**0.6**	**0.8**	

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	130%
d8-Toluene	94.6%
Bromofluorobenzene	89.1%
d4-1,2-Dichlorobenzene	82.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB11-2-4-073010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG79C
LIMS ID: 10-18507
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/05/10 15:29

Sample Amount: 7.97 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 15.3%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.6	< 0.6	U
156-59-2	cis-1,2-Dichloroethene	0.6	< 0.6	U
107-06-2	1,2-Dichloroethane	0.6	< 0.6	U
79-01-6	Trichloroethene	0.6	< 0.6	U
127-18-4	Tetrachloroethene	0.6	< 0.6	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	89.6%
Bromofluorobenzene	90.9%
d4-1,2-Dichlorobenzene	97.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB11-2-4-073010-D**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG79D
LIMS ID: 10-18508
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/05/10 15:55

Sample Amount: 8.85 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 14.1%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.6	< 0.6	U
156-59-2	cis-1,2-Dichloroethene	0.6	< 0.6	U
107-06-2	1,2-Dichloroethane	0.6	< 0.6	U
79-01-6	Trichloroethene	0.6	< 0.6	U
127-18-4	Tetrachloroethene	0.6	< 0.6	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	117%
d8-Toluene	94.8%
Bromofluorobenzene	87.2%
d4-1,2-Dichlorobenzene	99.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB11-4-6-073010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG79E
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/05/10 16:22

Sample Amount: 8.36 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 8.6%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.6	< 0.6	U
156-59-2	cis-1,2-Dichloroethene	0.6	< 0.6	U
107-06-2	1,2-Dichloroethane	0.6	< 0.6	U
79-01-6	Trichloroethene	0.6	< 0.6	U
127-18-4	Tetrachloroethene	0.6	< 0.6	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	116%
d8-Toluene	99.7%
Bromofluorobenzene	95.5%
d4-1,2-Dichlorobenzene	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB11-11-13-073010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG79G
LIMS ID: 10-18511
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/05/10 16:49

Sample Amount: 7.95 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 11.6%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.6	< 0.6	U
156-59-2	cis-1,2-Dichloroethene	0.6	< 0.6	U
107-06-2	1,2-Dichloroethane	0.6	< 0.6	U
79-01-6	Trichloroethene	0.6	< 0.6	U
127-18-4	Tetrachloroethene	0.6	< 0.6	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	122%
d8-Toluene	99.3%
Bromofluorobenzene	80.5%
d4-1,2-Dichlorobenzene	100%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB11-14-16-073010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG79H
LIMS ID: 10-18512
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/05/10 17:23

Sample Amount: 9.10 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 16.5%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.6	< 0.6	U
156-59-2	cis-1,2-Dichloroethene	0.6	< 0.6	U
107-06-2	1,2-Dichloroethane	0.6	< 0.6	U
79-01-6	Trichloroethene	0.6	< 0.6	U
127-18-4	**Tetrachloroethene**	**0.6**	**0.6**	

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	124%
d8-Toluene	90.6%
Bromofluorobenzene	94.2%
d4-1,2-Dichlorobenzene	100%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB15-0-0.5-073010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG79K
LIMS ID: 10-18515
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/05/10 18:10

Sample Amount: 7.05 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 13.3%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.7	< 0.7	U
156-59-2	cis-1,2-Dichloroethene	0.7	< 0.7	U
107-06-2	1,2-Dichloroethane	0.7	< 0.7	U
79-01-6	Trichloroethene	0.7	< 0.7	U
127-18-4	Tetrachloroethene	0.7	< 0.7	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	124%
d8-Toluene	100%
Bromofluorobenzene	86.3%
d4-1,2-Dichlorobenzene	99.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB15-1.5-2-073010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG79L
LIMS ID: 10-18516
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/05/10 18:37

Sample Amount: 6.78 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 6.8%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.7	< 0.7	U
156-59-2	cis-1,2-Dichloroethene	0.7	< 0.7	U
107-06-2	1,2-Dichloroethane	0.7	< 0.7	U
79-01-6	Trichloroethene	0.7	< 0.7	U
127-18-4	Tetrachloroethene	0.7	< 0.7	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	124%
d8-Toluene	102%
Bromofluorobenzene	93.1%
d4-1,2-Dichlorobenzene	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB15-2-4-073010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG79M
LIMS ID: 10-18517
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/05/10 19:03

Sample Amount: 9.01 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 4.8%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.6	< 0.6	U
156-59-2	cis-1,2-Dichloroethene	0.6	< 0.6	U
107-06-2	1,2-Dichloroethane	0.6	< 0.6	U
79-01-6	Trichloroethene	0.6	< 0.6	U
127-18-4	Tetrachloroethene	0.6	< 0.6	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	121%
d8-Toluene	103%
Bromofluorobenzene	91.0%
d4-1,2-Dichlorobenzene	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB15-4-6-073010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG79N
LIMS ID: 10-18518
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/05/10 19:30

Sample Amount: 10.0 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 4.8%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.5	< 0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	< 0.5	U
107-06-2	1,2-Dichloroethane	0.5	< 0.5	U
79-01-6	Trichloroethene	0.5	< 0.5	U
127-18-4	Tetrachloroethene	0.5	< 0.5	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	122%
d8-Toluene	104%
Bromofluorobenzene	96.6%
d4-1,2-Dichlorobenzene	100%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB15-13-15-073010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG79O
LIMS ID: 10-18519
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/05/10 19:56

Sample Amount: 7.95 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 16.1%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.6	< 0.6	U
156-59-2	cis-1,2-Dichloroethene	0.6	< 0.6	U
107-06-2	1,2-Dichloroethane	0.6	< 0.6	U
79-01-6	Trichloroethene	0.6	< 0.6	U
127-18-4	Tetrachloroethene	0.6	< 0.6	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	124%
d8-Toluene	98.6%
Bromofluorobenzene	81.6%
d4-1,2-Dichlorobenzene	94.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB15-17-19-073010**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG79P
LIMS ID: 10-18520
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/05/10 20:23

Sample Amount: 9.15 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 19.0%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.6	< 0.6	U
156-59-2	cis-1,2-Dichloroethene	0.6	< 0.6	U
107-06-2	1,2-Dichloroethane	0.6	< 0.6	U
79-01-6	Trichloroethene	0.6	< 0.6	U
127-18-4	Tetrachloroethene	0.6	< 0.6	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	116%
d8-Toluene	102%
Bromofluorobenzene	91.4%
d4-1,2-Dichlorobenzene	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB15-17-19-073010-D**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG79Q
LIMS ID: 10-18521
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/05/10 20:49

Sample Amount: 9.53 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 12.6%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.5	< 0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	< 0.5	U
107-06-2	1,2-Dichloroethane	0.5	< 0.5	U
79-01-6	Trichloroethene	0.5	< 0.5	U
127-18-4	Tetrachloroethene	0.5	< 0.5	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	129%
d8-Toluene	103%
Bromofluorobenzene	98.0%
d4-1,2-Dichlorobenzene	100%

ANALYTICAL RESOURCES INCORPORATED

VOA SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA

ARI ID	Client ID	Level	DCE	TOL	BFB	DCB	TOT OUT
RG79A	PSB11-0-0.5-073010	Low	128%	100%	77.2%	101%	0
RG79B	PSB11-1.5-2-073010	Low	130%	94.6%	89.1%	82.0%	0
RG79C	PSB11-2-4-073010	Low	104%	89.6%	90.9%	97.3%	0
RG79D	PSB11-2-4-073010-D	Low	117%	94.8%	87.2%	99.5%	0
MB-080510	Method Blank	Low	116%	105%	94.3%	100%	0
LCS-080510	Lab Control	Low	101%	103%	99.4%	99.4%	0
LCSD-080510	Lab Control Dup	Low	98.6%	101%	99.2%	99.7%	0
RG79E	PSB11-4-6-073010	Low	116%	99.7%	95.5%	101%	0
RG79EMS	PSB11-4-6-073010	Low	106%	97.0%	86.3%	98.8%	0
RG79EMSD	PSB11-4-6-073010	Low	113%	89.3%	78.7%	96.0%	0
RG79G	PSB11-11-13-073010	Low	122%	99.3%	80.5%	100%	0
RG79H	PSB11-14-16-073010	Low	124%	90.6%	94.2%	100%	0
RG79K	PSB15-0-0.5-073010	Low	124%	100%	86.3%	99.6%	0
RG79L	PSB15-1.5-2-073010	Low	124%	102%	93.1%	102%	0
RG79M	PSB15-2-4-073010	Low	121%	103%	91.0%	101%	0
RG79N	PSB15-4-6-073010	Low	122%	104%	96.6%	100%	0
RG79O	PSB15-13-15-073010	Low	124%	98.6%	81.6%	94.3%	0
RG79P	PSB15-17-19-073010	Low	116%	102%	91.4%	101%	0
RG79Q	PSB15-17-19-073010-D	Low	129%	103%	98.0%	100%	0

	LCS/MB LIMITS		QC LIMITS	
SW8260C	Low	Med	Low	Med
(DCE) = d4-1,2-Dichloroethane	79-121	76-120	75-152	69-120
(TOL) = d8-Toluene	80-120	80-120	82-115	80-120
(BFB) = Bromofluorobenzene	80-120	80-120	64-120	76-128
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120	80-120	80-120

Log Number Range: 10-18505 to 10-18521

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB11-TB**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG79J
LIMS ID: 10-18514
Matrix: Water
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/05/10 17:44

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	107%
d8-Toluene	102%
Bromofluorobenzene	95.2%
d4-1,2-Dichlorobenzene	103%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PB15-TB**
Page 1 of 1 **SAMPLE**

Lab Sample ID: RG79S
LIMS ID: 10-18523
Matrix: Water
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/05/10 22:08

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	110%
d8-Toluene	102%
Bromofluorobenzene	92.8%
d4-1,2-Dichlorobenzene	101%

ANALYTICAL RESOURCES INCORPORATED

VOA SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA

ARI ID	Client ID	PV	DCE	TOL	BFB	DCB	TOT OUT
RG79J	PSB11-TB	5	107%	102%	95.2%	103%	0
RG79S	PB15-TB	5	110%	102%	92.8%	101%	0

	LCS/MB LIMITS	QC LIMITS
SW8260C		
(DCE) = d4-1,2-Dichloroethane	80-122	80-125
(TOL) = d8-Toluene	80-120	80-120
(BFB) = Bromofluorobenzene	80-120	80-120
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120

Prep Method: SW5030B
Log Number Range: 10-18514 to 10-18523

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB11-4-6-073010**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: RG79E
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst MS: FINN5/PAB
MSD: FINN5/PAB
Date Analyzed MS: 08/05/10 21:16
MSD: 08/05/10 21:42

Sample Amount MS: 7.89 g-dry-wt
MSD: 8.98 g-dry-wt
Purge Volume MS: 5.0 mL
MSD: 5.0 mL
Moisture: 8.6%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
trans-1,2-Dichloroethene	< 0.6 U	28.8	31.7	90.9%	22.1	27.8	79.5%	26.3%
cis-1,2-Dichloroethene	< 0.6 U	27.1	31.7	85.5%	21.9	27.8	78.8%	21.2%
1,2-Dichloroethane	< 0.6 U	24.7	31.7	77.9%	20.8	27.8	74.8%	17.1%
Trichloroethene	< 0.6 U	22.2	31.7	70.0%	14.7	27.8	52.9%	40.7%
Tetrachloroethene	< 0.6 U	19.8	31.7	62.5%	11.2	27.8	40.3%	55.5%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB11-4-6-073010**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: RG79E
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/05/10 21:16

Sample Amount: 7.89 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 8.6%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.6	---	
156-59-2	cis-1,2-Dichloroethene	0.6	---	
107-06-2	1,2-Dichloroethane	0.6	---	
79-01-6	Trichloroethene	0.6	---	
127-18-4	Tetrachloroethene	0.6	---	

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%
d8-Toluene	97.0%
Bromofluorobenzene	86.3%
d4-1,2-Dichlorobenzene	98.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: PSB11-4-6-073010**
Page 1 of 1 **MATRIX SPIKE DUP**

Lab Sample ID: RG79E
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/05/10 21:42

Sample Amount: 8.98 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 8.6%

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	0.6	---	
156-59-2	cis-1,2-Dichloroethene	0.6	---	
107-06-2	1,2-Dichloroethane	0.6	---	
79-01-6	Trichloroethene	0.6	---	
127-18-4	Tetrachloroethene	0.6	---	

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	113%
d8-Toluene	89.3%
Bromofluorobenzene	78.7%
d4-1,2-Dichlorobenzene	96.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-080510**
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-080510
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: FINN5/PAB
LCSD: FINN5/PAB
Date Analyzed LCS: 08/05/10 12:01
LCSD: 08/05/10 13:23

Sample Amount LCS: 5.00 g-dry-wt
LCSD: 5.00 g-dry-wt
Purge Volume LCS: 5.0 mL
LCSD: 5.0 mL
Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
trans-1,2-Dichloroethene	49.4	50.0	98.8%	50.6	50.0	101%	2.4%
cis-1,2-Dichloroethene	50.7	50.0	101%	50.2	50.0	100%	1.0%
1,2-Dichloroethane	46.1	50.0	92.2%	47.4	50.0	94.8%	2.8%
Trichloroethene	47.4	50.0	94.8%	47.6	50.0	95.2%	0.4%
Tetrachloroethene	43.3	50.0	86.6%	47.5	50.0	95.0%	9.3%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	101%	98.6%
d8-Toluene	103%	101%
Bromofluorobenzene	99.4%	99.2%
d4-1,2-Dichlorobenzene	99.4%	99.7%

4A

VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

MB0805

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: RG79

Project: LORA LAKES RI

Lab File ID: MB0805

Lab Sample ID: MB0805

Date Analyzed: 08/05/10

Time Analyzed: 1228

Instrument ID: FINN5

Heated Purge: (Y/N) Y

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS0805	LCS0805	LCS0805A	1201
02	LCS0805	LCS0805	LCS0805B	1323
03	PSB11-0-0.5-	RG79A	RG79A	1437
04	PSB11-1.5-2-	RG79B	RG79B	1502
05	PSB11-2-4-07	RG79C	RG79C	1529
06	PSB11-2-4-07	RG79D	RG79D	1555
07	PSB11-4-6-07	RG79E	RG79E	1622
08	PSB11-11-13-	RG79G	RG79G	1649
09	PSB11-14-16-	RG79H	RG79H	1723
10	PSB11-TB	RG79J	RG79J	1744
11	PSB15-0-0.5-	RG79K	RG79K	1810
12	PSB15-1.5-2-	RG79L	RG79L	1837
13	PSB15-2-4-07	RG79M	RG79M	1903
14	PSB15-4-6-07	RG79N	RG79N	1930
15	PSB15-13-15-	RG79O	RG79O	1956
16	PSB15-17-19-	RG79P	RG79P	2023
17	PSB15-17-19-	RG79Q	RG79Q	2049
18	PSB11-4-6-07	RG79EMS	RG79EMS	2116
19	PSB11-4-6-07	RG79EMSD	RG79EMSD	2142
20	PB15-TB	RG79S	RG79S	2208
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-080510**
Page 1 of 1 **METHOD BLANK**

Lab Sample ID: MB-080510
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized:
Reported: 08/10/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN5/PAB
Date Analyzed: 08/05/10 12:28

Sample Amount: 5.00 g-dry-wt
Purge Volume: 5.0 mL
Moisture: NA

CAS Number	Analyte	RL	Result	Q
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	116%
d8-Toluene	105%
Bromofluorobenzene	94.3%
d4-1,2-Dichlorobenzene	100%

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD SNIDER

Lab Code: ARI Case No.: LORA LAKES RI SDG No.: RG79

Lab File ID: BFB07231 BFB Injection Date: 07/23/10

Instrument ID: FINN5 BFB Injection Time: 1648

GC Column: RTX502.2 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	24.7
75	30.0 - 66.0% of mass 95	49.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.2 (0.2)1
174	50.0 - 101.0% of mass 95	77.4
175	4.0 - 9.0% of mass 174	5.7 (7.4)1
176	93.0 - 101.0% of mass 174	76.4 (98.8)1
177	5.0 - 9.0% of mass 176	5.5 (7.2)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD200	IC0723	2000723	07/23/10	1718
02	VSTD150	IC0723	1500723	07/23/10	1749
03	VSTD100	IC0723	1000723	07/23/10	1816
04	VSTD050	IC0723	0500723	07/23/10	1842
05	VSTD010	IC0723	0100723	07/23/10	1909
06	VSTD005	IC0723	0050723	07/23/10	1935
07	VSTD002	IC0723	0020723	07/23/10	2002
08	VSTD001	IC0723	0010723	07/23/10	2028
09					
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15					
16					
17					
18					
19					
20					
21					
22					

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD SNIDER

Lab Code: ARI Case No.: LORA LAKES RI SDG No.: RG79

Lab File ID: BFB0805 BFB Injection Date: 08/05/10

Instrument ID: FINN5 BFB Injection Time: 1019

GC Column: RTX502.2 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	28.2
75	30.0 - 66.0% of mass 95	51.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 101.0% of mass 95	64.4
175	4.0 - 9.0% of mass 174	4.3 (6.7)1
176	93.0 - 101.0% of mass 174	63.4 (98.4)1
177	5.0 - 9.0% of mass 176	3.8 (6.0)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	CC0805	0500805	08/05/10	1049
02	LCS0805	LCS0805	LCS0805A	08/05/10	1201
03	MB0805	MB0805	MB0805	08/05/10	1228
04	LCS0805	LCS0805	LCS0805B	08/05/10	1323
05	PSB11-0-0.5-0730	RG79A	RG79A	08/05/10	1437
06	PSB11-1.5-2-0730	RG79B	RG79B	08/05/10	1502
07	PSB11-2-4-073010	RG79C	RG79C	08/05/10	1529
08	PSB11-2-4-073010	RG79D	RG79D	08/05/10	1555
09	PSB11-4-6-073010	RG79E	RG79E	08/05/10	1622
10	PSB11-11-13-0730	RG79G	RG79G	08/05/10	1649
11	PSB11-14-16-0730	RG79H	RG79H	08/05/10	1723
12	PSB11-TB	RG79J	RG79J	08/05/10	1744
13	PSB15-0-0.5-0730	RG79K	RG79K	08/05/10	1810
14	PSB15-1.5-2-0730	RG79L	RG79L	08/05/10	1837
15	PSB15-2-4-073010	RG79M	RG79M	08/05/10	1903
16	PSB15-4-6-073010	RG79N	RG79N	08/05/10	1930
17	PSB15-13-15-0730	RG79O	RG79O	08/05/10	1956
18	PSB15-17-19-0730	RG79P	RG79P	08/05/10	2023
19	PSB15-17-19-0730	RG79Q	RG79Q	08/05/10	2049
20	PSB11-4-6-07301	RG79EMS	RG79EMS	08/05/10	2116
21	PSB11-4-6-07301	RG79EMSD	RG79EMSD	08/05/10	2142
22	PB15-TB	RG79S	RG79S	08/05/10	2208

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG79 Project: LORA LAKES RI

Instrument ID: FINN5 Calibration Date: 07/23/10

LAB FILE ID: RF1: 0010723 RF2: 0020723 RF5: 0050723
RF10: 0100723 RF50: 0500723

COMPOUND	RF1	RF2	RF5	RF10	RF50
Chloromethane	2.155	1.962	1.917	2.009	1.652
Vinyl Chloride	1.519	1.452	1.513	1.597	1.363
Bromomethane	0.934	0.851	0.777	0.625	0.810
Chloroethane	1.071	1.093	0.988	0.871	0.876
Trichlorofluoromethane	1.476	1.559	1.505	1.410	1.426
Acrolein	0.205	0.197	0.177	0.164	0.157
112Trichloro122Trifluoroetha	1.274	1.182	1.204	1.123	1.014
Acetone	0.308	0.320	0.314	0.301	0.268
1,1-Dichloroethene	1.036	1.019	1.041	1.032	0.979
Bromoethane	0.707	0.744	0.729	0.753	0.727
Iodomethane	1.011	1.066	1.142	1.140	1.253
Methylene Chloride		1.396	1.190	1.128	0.935
Acrylonitrile	0.196	0.243	0.283	0.285	0.261
Carbon Disulfide	3.372	3.310	3.395	3.282	3.176
Trans-1,2-Dichloroethene	0.815	0.825	0.806	0.895	0.794
Vinyl Acetate	1.378	1.475	1.529	1.560	1.561
1,1-Dichloroethane	1.593	1.577	1.616	1.674	1.534
2-Butanone	0.326	0.330	0.344	0.353	0.328
2,2-Dichloropropane	0.887	0.897	0.933	0.951	0.913
Cis-1,2-Dichloroethene	0.703	0.702	0.718	0.759	0.692
Chloroform	1.249	1.296	1.316	1.320	1.203
Bromochloromethane	0.301	0.323	0.367	0.357	0.335
1,1,1-Trichloroethane	0.977	0.934	0.973	0.985	0.933
1,1-Dichloropropene	0.670	0.690	0.712	0.765	0.673
Carbon Tetrachloride	0.581	0.624	0.604	0.630	0.570
1,2-Dichloroethane	0.571	0.629	0.633	0.678	0.586
Benzene	1.759	1.768	1.800	1.965	1.656
Trichloroethene	0.436	0.500	0.510	0.540	0.468
1,2-Dichloropropane	0.524	0.521	0.548	0.582	0.501
Bromodichloromethane	0.521	0.592	0.582	0.604	0.542
Dibromomethane	0.253	0.259	0.260	0.288	0.249
2-Chloroethyl Vinyl Ether		0.142	0.173	0.190	0.185
4-Methyl-2-Pentanone	0.141	0.137	0.132	0.143	0.133
Cis 1,3-dichloropropene	0.503	0.566	0.600	0.660	0.638
Toluene	1.257	1.104	1.022	1.052	0.921
Trans 1,3-Dichloropropene	0.446	0.472	0.491	0.540	0.521
2-Hexanone	0.489	0.418	0.404	0.438	0.381

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG79 Project: LORA LAKES RI

Instrument ID: FINN5 Calibration Date: 07/23/10

LAB FILE ID: RF1: 0010723 RF2: 0020723 RF5: 0050723
RF10: 0100723 RF50: 0500723

COMPOUND	RF1	RF2	RF5	RF10	RF50
1,1,2-Trichloroethane	0.269	0.295	0.323	0.339	0.296
1,3-Dichloropropane	0.683	0.714	0.715	0.756	0.678
Tetrachloroethene	0.617	0.527	0.565	0.567	0.490
Chlorodibromomethane	0.427	0.440	0.465	0.502	0.453
1,2-Dibromoethane	0.301	0.328	0.338	0.349	0.322
Chlorobenzene	1.449	1.256	1.215	1.285	1.093
Ethyl Benzene	2.203	2.176	2.088	2.268	2.021
1,1,1,2-Tetrachloroethane	0.488	0.463	0.438	0.454	0.389
m,p-xylene	0.686	0.701	0.756	0.820	0.768
o-Xylene	0.597	0.672	0.700	0.773	0.750
Styrene	1.013	1.042	1.151	1.321	1.228
Bromoform	0.588	0.562	0.563	0.584	0.521
1,1,2,2-Tetrachloroethane	1.199	1.124	1.036	1.126	0.917
1,2,3-Trichloropropane		0.226	0.221	0.226	0.186
Trans-1,4-Dichloro 2-Butene		0.322	0.326	0.349	0.301
N-Propyl Benzene	4.356	4.362	4.593	5.132	4.292
Bromobenzene	0.977	0.937	0.972	1.058	0.917
Isopropyl Benzene	3.581	3.464	3.670	4.080	3.636
2-Chloro Toluene	3.123	2.806	3.073	3.372	2.810
4-Chloro Toluene	2.626	2.911	2.880	3.298	2.959
T-Butyl Benzene	2.255	2.386	2.573	2.864	2.638
1,3,5-Trimethyl Benzene	2.663	2.667	2.918	3.226	2.998
1,2,4-Trimethylbenzene	2.438	2.545	2.851	3.260	2.948
S-Butyl Benzene	3.651	3.689	3.984	4.454	4.031
4-Isopropyl Toluene	2.226	2.542	2.823	3.180	2.946
1,3-Dichlorobenzene	1.562	1.533	1.674	1.912	1.646
1,4-Dichlorobenzene	1.655	1.573	1.702	1.839	1.597
N-Butyl Benzene	2.810	2.765	3.045	3.430	3.102
1,2-Dichlorobenzene	1.537	1.602	1.638	1.750	1.517
1,2-Dibromo 3-Chloropropane	0.152	0.209	0.190	0.200	0.171
1,2,4-Trichlorobenzene	0.965	1.017	0.971	1.126	0.860
Hexachloro 1,3-Butadiene	0.585	0.688	0.689	0.751	0.589
Naphthalene	1.716	1.756	1.742	2.094	1.618
1,2,3-Trichlorobenzene	0.961	1.020	0.960	1.136	0.809
Dichlorodifluoromethane	0.618	0.692	0.660	0.633	0.675
Methyl tert-Butyl Ether	1.392	1.482	1.616	1.631	1.525

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG79 Project: LORA LAKES RI

Instrument ID: FINN5 Calibration Date: 07/23/10

LAB FILE ID: RF1: 0010723 RF2: 0020723 RF5: 0050723
RF10: 0100723 RF50: 0500723

COMPOUND	RF1	RF2	RF5	RF10	RF50
d4-1,2-Dichloroethane	0.718	0.705	0.687	0.646	0.643
d8-Toluene	1.123	1.149	1.122	1.106	1.114
4-Bromofluorobenzene	0.550	0.557	0.558	0.551	0.566
d4-1,2-Dichlorobenzene	0.929	0.920	0.920	0.926	0.925
Dibromofluoromethane	0.649	0.629	0.614	0.586	0.599

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG79 Project: LORA LAKES RI

Instrument ID: FINN5 Calibration Date: 07/23/10

LAB FILE ID: RF100: 1000723 RF150: 1500723 RF200: 2000723

COMPOUND	RF100	RF150	RF200
Chloromethane	1.566	1.388	1.306
Vinyl Chloride	1.358	1.171	1.061
Bromomethane	0.769	0.647	0.579
Chloroethane	0.778	0.629	
Trichlorofluoromethane	1.280	1.042	0.967
Acrolein	0.146	0.119	
112Trichloro122Trifluoroetha	0.976	0.818	0.758
Acetone	0.244	0.204	
1,1-Dichloroethene	0.934	0.797	0.739
Bromoethane	0.727	0.633	0.591
Iodomethane	1.256	1.066	1.025
Methylene Chloride	0.929	0.821	
Acrylonitrile	0.258	0.230	0.220
Carbon Disulfide	2.867	2.186	1.913
Trans-1,2-Dichloroethene	0.835	0.766	0.722
Vinyl Acetate	1.554	1.197	1.056
1,1-Dichloroethane	1.561	1.255	1.069
2-Butanone	0.323	0.268	0.247
2,2-Dichloropropane	0.956	0.876	0.855
Cis-1,2-Dichloroethene	0.742	0.687	0.690
Chloroform	1.234	1.073	0.959
Bromochloromethane	0.351	0.332	0.335
1,1,1-Trichloroethane	0.962	0.878	0.863
1,1-Dichloropropene	0.695	0.631	0.596
Carbon Tetrachloride	0.592	0.551	0.570
1,2-Dichloroethane	0.598	0.544	0.529
Benzene	1.455	1.088	
Trichloroethene	0.485	0.448	0.461
1,2-Dichloropropane	0.518	0.470	0.475
Bromodichloromethane	0.555	0.516	0.514
Dibromomethane	0.260	0.237	0.249
2-Chloroethyl Vinyl Ether	0.194	0.187	0.198
4-Methyl-2-Pentanone	0.132	0.122	0.117
Cis 1,3-dichloropropene	0.676	0.620	0.570
Toluene	0.946	0.783	0.707
Trans 1,3-Dichloropropene	0.559	0.524	0.508
2-Hexanone	0.322		

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG79 Project: LORA LAKES RI

Instrument ID: FINN5 Calibration Date: 07/23/10

LAB FILE ID: RF100: 1000723 RF150: 1500723 RF200: 2000723

COMPOUND	RF100	RF150	RF200
1,1,2-Trichloroethane	0.308	0.291	0.306
1,3-Dichloropropane	0.724	0.676	0.684
Tetrachloroethene	0.546	0.543	0.590
Chlorodibromomethane	0.493	0.479	0.528
1,2-Dibromoethane	0.328	0.309	0.324
Chlorobenzene	1.173	0.982	0.930
Ethyl Benzene	1.784	1.342	
1,1,1,2-Tetrachloroethane	0.428	0.439	0.492
m,p-xylene	0.804	0.647	0.616
o-Xylene	0.840	0.828	0.865
Styrene	1.342	1.127	1.094
Bromoform	0.539	0.500	0.474
1,1,2,2-Tetrachloroethane	0.890	0.780	0.707
1,2,3-Trichloropropane	0.183	0.160	0.146
Trans-1,4-Dichloro 2-Butene	0.299	0.258	0.237
N-Propyl Benzene	3.334		
Bromobenzene	0.956	0.872	0.817
Isopropyl Benzene	3.053	2.076	
2-Chloro Toluene	2.821	1.980	
4-Chloro Toluene	2.626	1.857	
T-Butyl Benzene	2.560	1.958	1.463
1,3,5-Trimethyl Benzene	2.733	1.921	
1,2,4-Trimethylbenzene	2.800	1.985	
S-Butyl Benzene	3.263		
4-Isopropyl Toluene	2.747	2.006	
1,3-Dichlorobenzene	1.804	1.479	1.214
1,4-Dichlorobenzene	1.775	1.484	1.208
N-Butyl Benzene	2.846	1.945	
1,2-Dichlorobenzene	1.586	1.401	1.156
1,2-Dibromo 3-Chloropropane	0.158	0.137	0.128
1,2,4-Trichlorobenzene	0.913	0.825	0.739
Hexachloro 1,3-Butadiene	0.597	0.554	0.542
Naphthalene	1.558	1.287	
1,2,3-Trichlorobenzene	0.822	0.736	0.646
Dichlorodifluoromethane	0.674	0.632	0.601
Methyl tert-Butyl Ether	1.542	1.313	1.151

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG79 Project: LORA LAKES RI

Instrument ID: FINN5 Calibration Date: 07/23/10

LAB FILE ID: RF100: 1000723 RF150: 1500723 RF200: 2000723

COMPOUND	RF100	RF150	RF200
d4-1,2-Dichloroethane	0.641	0.617	0.560
d8-Toluene	1.080	1.048	1.047
4-Bromofluorobenzene	0.592	0.613	0.695
d4-1,2-Dichlorobenzene	0.902	0.880	0.873
Dibromofluoromethane	0.586	0.572	0.533

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG79 Project: LORA LAKES RI

Instrument ID: FINN5 Calibration Date: 07/23/10

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R^2
Chloromethane	AVRG	1.744	17.8
Vinyl Chloride	AVRG	1.379	13.3
Bromomethane	AVRG	0.749	16.3
Chloroethane	AVRG	0.901	18.3
Trichlorofluoromethane	AVRG	1.333	16.4
Acrolein	AVRG	0.166	17.8
112Trichloro122Trifluoroetha	AVRG	1.044	17.8
Acetone	AVRG	0.280	15.4
1,1-Dichloroethene	AVRG	0.947	12.4
Bromoethane	AVRG	0.701	8.2
Iodomethane	AVRG	1.120	8.5
Methylene Chloride	AVRG	1.066	19.9
Acrylonitrile	AVRG	0.247	12.5
Carbon Disulfide	AVRG	2.938	19.6
Trans-1,2-Dichloroethene	AVRG	0.807	6.3
Vinyl Acetate	AVRG	1.414	13.5
1,1-Dichloroethane	AVRG	1.485	14.1
2-Butanone	AVRG	0.315	11.8
2,2-Dichloropropane	AVRG	0.909	4.0
Cis-1,2-Dichloroethene	AVRG	0.711	3.7
Chloroform	AVRG	1.206	10.6
Bromochloromethane	AVRG	0.338	6.1
1,1,1-Trichloroethane	AVRG	0.938	4.9
1,1-Dichloropropene	AVRG	0.679	7.5
Carbon Tetrachloride	AVRG	0.590	4.7
1,2-Dichloroethane	AVRG	0.596	8.3
Benzene	AVRG	1.642	17.6
Trichloroethene	AVRG	0.481	7.2
1,2-Dichloropropane	AVRG	0.518	7.1
Bromodichloromethane	AVRG	0.553	6.5
Dibromomethane	AVRG	0.257	5.7
2-Chloroethyl Vinyl Ether	AVRG	0.181	10.5
4-Methyl-2-Pentanone	AVRG	0.132	6.7
Cis 1,3-dichloropropene	AVRG	0.604	9.4
Toluene	AVRG	0.974	18.0
Trans 1,3-Dichloropropene	AVRG	0.508	7.2
2-Hexanone	AVRG	0.409	13.6

<- Indicates value outside QC limits:
(%RSD < 20% or R^2 > 0.990)

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG79 Project: LORA LAKES RI

Instrument ID: FINN5 Calibration Date: 07/23/10

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R^2
1,1,2-Trichloroethane	AVRG	0.303	7.0
1,3-Dichloropropane	AVRG	0.704	4.0
Tetrachloroethene	AVRG	0.556	7.0
Chlorodibromomethane	AVRG	0.473	7.2
1,2-Dibromoethane	AVRG	0.325	4.7
Chlorobenzene	AVRG	1.173	14.4
Ethyl Benzene	AVRG	1.983	16.3
1,1,1,2-Tetrachloroethane	AVRG	0.449	7.4
m,p-xylene	AVRG	0.725	10.2
o-Xylene	AVRG	0.753	12.3
Styrene	AVRG	1.165	10.5
Bromoform	AVRG	0.541	7.5
1,1,2,2-Tetrachloroethane	AVRG	0.972	18.2
1,2,3-Trichloropropane	AVRG	0.193	17.0
Trans-1,4-Dichloro 2-Butene	AVRG	0.299	13.1
N-Propyl Benzene	AVRG	4.345	13.4
Bromobenzene	AVRG	0.938	7.7
Isopropyl Benzene	AVRG	3.366	19.2
2-Chloro Toluene	AVRG	2.855	15.4
4-Chloro Toluene	AVRG	2.736	16.4
T-Butyl Benzene	AVRG	2.337	19.1
1,3,5-Trimethyl Benzene	AVRG	2.732	15.0
1,2,4-Trimethylbenzene	AVRG	2.690	15.2
S-Butyl Benzene	AVRG	3.845	10.6
4-Isopropyl Toluene	AVRG	2.638	15.6
1,3-Dichlorobenzene	AVRG	1.603	13.2
1,4-Dichlorobenzene	AVRG	1.604	12.2
N-Butyl Benzene	AVRG	2.849	16.1
1,2-Dichlorobenzene	AVRG	1.523	11.8
1,2-Dibromo 3-Chloropropane	AVRG	0.168	17.6
1,2,4-Trichlorobenzene	AVRG	0.927	13.0
Hexachloro 1,3-Butadiene	AVRG	0.624	12.0
Naphthalene	AVRG	1.682	14.5
1,2,3-Trichlorobenzene	AVRG	0.886	18.2
Dichlorodifluoromethane	AVRG	0.648	4.8
Methyl tert-Butyl Ether	AVRG	1.456	11.2

<- Indicates value outside QC limits:
(%RSD < 20% or R^2 > 0.990)

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG79 Project: LORA LAKES RI

Instrument ID: FINN5 Calibration Date: 07/23/10

COMPOUND	CURVE TYPE	AVE RF	%RSD OR R^2
d4-1,2-Dichloroethane	AVRG	0.652	7.8
d8-Toluene	AVRG	1.099	3.4
4-Bromofluorobenzene	AVRG	0.585	8.5
d4-1,2-Dichlorobenzene	AVRG	0.909	2.4
Dibromofluoromethane	AVRG	0.596	6.0

<- Indicates value outside QC limits:
(%RSD < 20% or R^2 > 0.990)

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG79 Project: LORA LAKES RI

Instrument ID: FINN5 Cont. Calib. Date: 08/05/10

Init. Calib. Date: 07/23/10 Cont. Calib. Time: 1049

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift	
Chloromethane	1.744	1.357	0.100	AVRG	-22.2	<-
Vinyl Chloride	1.379	1.218	0.010	AVRG	-11.7	
Bromomethane	0.749	0.836	0.010	AVRG	11.6	
Chloroethane	0.901	0.821	0.010	AVRG	-8.9	
Trichlorofluoromethane	1.333	1.219	0.010	AVRG	-8.6	
Acrolein	0.166	0.151	0.010	AVRG	-9.0	
112Trichloro122Trifluoroetha	1.044	0.948	0.010	AVRG	-9.2	
Acetone	0.280	0.253	0.010	AVRG	-9.6	
1,1-Dichloroethene	0.947	0.871	0.010	AVRG	-8.0	
Bromoethane	0.701	0.654	0.010	AVRG	-6.7	
Iodomethane	1.120	1.197	0.010	AVRG	6.9	
Methylene Chloride	1.066	0.879	0.010	AVRG	-17.5	
Acrylonitrile	0.247	0.252	0.010	AVRG	2.0	
Carbon Disulfide	2.938	3.033	0.010	AVRG	3.2	
Trans-1,2-Dichloroethene	0.807	0.749	0.010	AVRG	-7.2	
Vinyl Acetate	1.414	1.444	0.010	AVRG	2.1	
1,1-Dichloroethane	1.485	1.395	0.100	AVRG	-6.1	
2-Butanone	0.315	0.302	0.010	AVRG	-4.1	
2,2-Dichloropropane	0.908	0.756	0.010	AVRG	-16.7	
Cis-1,2-Dichloroethene	0.712	0.669	0.010	AVRG	-6.0	
Chloroform	1.206	1.093	0.010	AVRG	-9.4	
Bromochloromethane	0.338	0.321	0.010	AVRG	-5.0	
1,1,1-Trichloroethane	0.938	0.774	0.010	AVRG	-17.5	
1,1-Dichloropropene	0.679	0.598	0.010	AVRG	-11.9	
Carbon Tetrachloride	0.590	0.476	0.010	AVRG	-19.3	
1,2-Dichloroethane	0.596	0.532	0.010	AVRG	-10.7	
Benzene	1.642	1.512	0.010	AVRG	-7.9	
Trichloroethene	0.481	0.420	0.010	AVRG	-12.7	
1,2-Dichloropropane	0.517	0.460	0.010	AVRG	-11.0	
Bromodichloromethane	0.553	0.492	0.010	AVRG	-11.0	
Dibromomethane	0.257	0.235	0.010	AVRG	-8.6	
2-Chloroethyl Vinyl Ether	0.181	0.183	0.010	AVRG	1.1	
4-Methyl-2-Pentanone	0.132	0.117	0.010	AVRG	-11.4	
Cis 1,3-dichloropropene	0.604	0.576	0.010	AVRG	-4.6	
Toluene	0.974	0.849	0.010	AVRG	-12.8	
Trans 1,3-Dichloropropene	0.508	0.470	0.010	AVRG	-7.5	
2-Hexanone	0.409	0.333	0.010	AVRG	-18.6	

<- Exceeds QC limit of 20% D

* RF less than minimum RF

FORM VII VOA

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG79 Project: LORA LAKES RI

Instrument ID: FINN5 Cont. Calib. Date: 08/05/10

Init. Calib. Date: 07/23/10 Cont. Calib. Time: 1049

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift	
1,1,2-Trichloroethane	0.303	0.277	0.010	AVRG	-8.6	
1,3-Dichloropropane	0.704	0.636	0.010	AVRG	-9.6	
Tetrachloroethene	0.556	0.447	0.010	AVRG	-19.6	
Chlorodibromomethane	0.473	0.411	0.010	AVRG	-13.1	
1,2-Dibromoethane	0.325	0.287	0.010	AVRG	-11.7	
Chlorobenzene	1.173	1.033	0.300	AVRG	-11.9	
Ethyl Benzene	1.983	1.878	0.010	AVRG	-5.3	
1,1,1,2-Tetrachloroethane	0.449	0.344	0.010	AVRG	-23.4	<-
m,p-xylene	0.725	0.726	0.010	AVRG	0.1	
o-Xylene	0.753	0.694	0.010	AVRG	-7.8	
Styrene	1.165	1.178	0.010	AVRG	1.1	
Bromoform	0.541	0.438	0.100	AVRG	-19.0	
1,1,2,2-Tetrachloroethane	0.972	0.794	0.300	AVRG	-18.3	
1,2,3-Trichloropropane	0.192	0.152	0.010	AVRG	-20.8	<-
Trans-1,4-Dichloro 2-Butene	0.299	0.292	0.010	AVRG	-2.3	
N-Propyl Benzene	4.345	4.034	0.010	AVRG	-7.2	
Bromobenzene	0.938	0.800	0.010	AVRG	-14.7	
Isopropyl Benzene	3.366	3.211	0.010	AVRG	-4.6	
2-Chloro Toluene	2.855	2.603	0.010	AVRG	-8.8	
4-Chloro Toluene	2.737	2.692	0.010	AVRG	-1.6	
T-Butyl Benzene	2.337	2.322	0.010	AVRG	-0.6	
1,3,5-Trimethyl Benzene	2.732	2.699	0.010	AVRG	-1.2	
1,2,4-Trimethylbenzene	2.690	2.748	0.010	AVRG	2.2	
S-Butyl Benzene	3.845	3.684	0.010	AVRG	-4.2	
4-Isopropyl Toluene	2.638	2.747	0.010	AVRG	4.1	
1,3-Dichlorobenzene	1.603	1.549	0.010	AVRG	-3.4	
1,4-Dichlorobenzene	1.604	1.564	0.010	AVRG	-2.5	
N-Butyl Benzene	2.849	3.130	0.010	AVRG	9.9	
1,2-Dichlorobenzene	1.523	1.404	0.010	AVRG	-7.8	
1,2-Dibromo 3-Chloropropane	0.168	0.130	0.010	AVRG	-22.6	<-
1,2,4-Trichlorobenzene	0.927	0.880	0.010	AVRG	-5.1	
Hexachloro 1,3-Butadiene	0.624	0.541	0.010	AVRG	-13.3	
Naphthalene	1.682	1.433	0.010	AVRG	-14.8	
1,2,3-Trichlorobenzene	0.886	0.774	0.010	AVRG	-12.6	
Dichlorodifluoromethane	0.648	0.566	0.010	AVRG	-12.6	
Methyl tert-Butyl Ether	1.456	1.229	0.010	AVRG	-15.6	

<- Exceeds QC limit of 20% D
* RF less than minimum RF

FORM VII VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG79 Project: LORA LAKES RI

Instrument ID: FINN5 Cont. Calib. Date: 08/05/10

Init. Calib. Date: 07/23/10 Cont. Calib. Time: 1049

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
d4-1,2-Dichloroethane	0.652	0.632	0.010	AVRG	-3.1
d8-Toluene	1.099	1.158	0.010	AVRG	5.4
4-Bromofluorobenzene	0.585	0.593	0.010	AVRG	1.4
d4-1,2-Dichlorobenzene	0.909	0.891	0.010	AVRG	-2.0
Dibromofluoromethane	0.596	0.594	0.010	AVRG	-0.3

<- Exceeds QC limit of 20% D

* RF less than minimum RF

FORM VII VOA

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG79 Project: LORA LAKES RI

Ical Midpoint ID: 0500723 Ical Date: 07/23/10

Instrument ID: FINN5 Project Run Date: 08/05/10

		IS1(PFB) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CLB) AREA #	RT #
	ICAL MIDPT	131115	6.62	191559	7.63	161199	10.78
	UPPER LIMIT	262230	7.12	383118	8.13	322398	11.28
	LOWER LIMIT	65558	6.12	95780	7.13	80600	10.28
	Sample ID						
01	LCS0805	125375	6.63	185613	7.65	158771	10.79
02	MB0805	115941	6.63	175280	7.64	152278	10.79
03	LCS0805	128727	6.61	185543	7.63	149563	10.77
04	PSB11-0-0.5-	119555	6.62	172419	7.64	125003	10.78
05	PSB11-1.5-2-	124544	6.63	189331	7.64	143819	10.79
06	PSB11-2-4-07	183633	6.62	257432	7.64	172556	10.78
07	PSB11-2-4-07	156091	6.62	230038	7.64	170004	10.78
08	PSB11-4-6-07	146361	6.63	216984	7.65	176180	10.79
09	PSB11-11-13-	122841	6.63	186440	7.64	137655	10.78
10	PSB11-14-16-	113499	6.62	177380	7.64	117085	10.78
11	PSB11-TB	127520	6.64	190295	7.65	155627	10.80
12	PSB15-0-0.5-	117040	6.62	174578	7.64	131624	10.78
13	PSB15-1.5-2-	122713	6.62	184802	7.63	148626	10.77
14	PSB15-2-4-07	130045	6.63	192759	7.65	158368	10.79
15	PSB15-4-6-07	130115	6.63	192981	7.64	165592	10.79
16	PSB15-13-15-	125926	6.64	186673	7.65	135886	10.79
17	PSB15-17-19-	128844	6.64	194009	7.65	161230	10.79
18	PSB15-17-19-	128719	6.63	194732	7.65	166677	10.79
19	PSB11-4-6-07	149989	6.64	216227	7.65	156912	10.80
20	PSB11-4-6-07	134110	6.63	196331	7.64	121505	10.79
21	PB15-TB	133082	6.63	196958	7.64	163115	10.79
22							

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CLB) = d5-Chlorobenzene

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 Ical midpoint
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

ARI Job No: RG79 Project: LORA LAKES RI

Ical Midpoint ID: 0500723 Ical Date: 07/23/10

Instrument ID: FINN5 Project Run Date: 08/05/10

		IS4(DCB) AREA #	RT #	AREA #	RT #	AREA #	RT #
	ICAL MIDPT	88279	13.47				
	UPPER LIMIT	176558	13.97				
	LOWER LIMIT	44140	12.97				
	Sample ID						
01	LCS0805	88719	13.48				
02	MB0805	76289	13.47				
03	LCS0805	84025	13.46				
04	PSB11-0-0.5-	39920*	13.47				
05	PSB11-1.5-2-	137551	13.47				
06	PSB11-2-4-07	62174	13.46				
07	PSB11-2-4-07	62557	13.47				
08	PSB11-4-6-07	85317	13.48				
09	PSB11-11-13-	47177	13.47				
10	PSB11-14-16-	38591*	13.47				
11	PSB11-TB	76606	13.48				
12	PSB15-0-0.5-	50421	13.47				
13	PSB15-1.5-2-	65261	13.46				
14	PSB15-2-4-07	68286	13.48				
15	PSB15-4-6-07	79779	13.47				
16	PSB15-13-15-	47038	13.48				
17	PSB15-17-19-	72905	13.48				
18	PSB15-17-19-	86257	13.48				
19	PSB11-4-6-07	61799	13.48				
20	PSB11-4-6-07	37508*	13.47				
21	PB15-TB	79082	13.47				
22							

IS4 (DCB) = d4-1,4-Dichlorobenzene

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 Ical midpoint
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Ical midpoint

* Values outside of QC limits.

Semivolatile PAH Analysis
Report and Summary QC Forms

ARI Job ID: RG79

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: PSB11-0-0.5-073010
SAMPLE

Lab Sample ID: RG79A
LIMS ID: 10-18505
Matrix: Soil
Data Release Authorized: VB
Reported: 08/21/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/17/10 19:36
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 3.00
Percent Moisture: 9.6%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	59	< 59 U
218-01-9	**Chrysene**	**59**	**52 J**
50-32-8	Benzo(a)pyrene	59	< 59 U
193-39-5	Indeno(1,2,3-cd)pyrene	59	< 59 U
53-70-3	Dibenz(a,h)anthracene	59	< 59 U
TOTBFA	Total Benzofluoranthenes	59	< 59 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	90.7%
2-Fluorobiphenyl	80.9%

ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: PSB11-1.5-2-073010
SAMPLE

Lab Sample ID: RG79B
LIMS ID: 10-18506
Matrix: Soil
Data Release Authorized: VJS
Reported: 08/21/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/19/10 20:35
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 26.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 8.6%

CAS Number	Analyte	RL	Result
56-55-3	**Benzo(a)anthracene**	**190**	**130 J**
218-01-9	**Chrysene**	**190**	**170 J**
50-32-8	**Benzo(a)pyrene**	**190**	**100 J**
193-39-5	Indeno(1,2,3-cd)pyrene	190	< 190 U
53-70-3	Dibenz(a,h)anthracene	190	< 190 U
TOTBFA	**Total Benzofluoranthenes**	**190**	**200**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	53.2%
2-Fluorobiphenyl	59.6%

ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: PSB11-2-4-073010
SAMPLE

Lab Sample ID: RG79C
LIMS ID: 10-18507
Matrix: Soil
Data Release Authorized:
Reported: 08/21/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/19/10 21:08
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 10.0
Percent Moisture: 15.3%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	390	< 390 U
218-01-9	Chrysene	390	< 390 U
50-32-8	Benzo(a)pyrene	390	< 390 U
193-39-5	Indeno(1,2,3-cd)pyrene	390	< 390 U
53-70-3	Dibenz(a,h)anthracene	390	< 390 U
TOTBFA	Total Benzofluoranthenes	390	< 390 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	72.0%
2-Fluorobiphenyl	56.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: PSB11-2-4-073010-D
SAMPLE

Lab Sample ID: RG79D
LIMS ID: 10-18508
Matrix: Soil
Data Release Authorized: VTS
Reported: 08/21/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/19/10 21:41
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 26.3 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 14.1%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	190	< 190 U
218-01-9	**Chrysene**	**190**	**140 J**
50-32-8	**Benzo(a)pyrene**	**190**	**100 J**
193-39-5	Indeno(1,2,3-cd)pyrene	190	< 190 U
53-70-3	Dibenz(a,h)anthracene	190	< 190 U
TOTBFA	Total Benzofluoranthenes	190	< 190 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	75.2%
2-Fluorobiphenyl	68.0%

ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: PSB11-4-6-073010
SAMPLE

Lab Sample ID: RG79E
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized: VB
Reported: 08/21/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/18/10 12:59
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 26.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 8.6%

CAS Number	Analyte	RL	Result	
56-55-3	**Benzo(a)anthracene**	**19**	**12**	**J**
218-01-9	**Chrysene**	**19**	**21**	
50-32-8	**Benzo(a)pyrene**	**19**	**16**	**J**
193-39-5	Indeno(1,2,3-cd)pyrene	19	< 19	U
53-70-3	Dibenz(a,h)anthracene	19	< 19	U
TOTBFA	**Total Benzofluoranthenes**	**19**	**33**	

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	68.8%
2-Fluorobiphenyl	69.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: PSB11-11-13-073010
SAMPLE

Lab Sample ID: RG79G
LIMS ID: 10-18511
Matrix: Soil
Data Release Authorized: VTS
Reported: 08/21/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/18/10 15:46
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 26.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 3.00
Percent Moisture: 11.6%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	58	< 58 U
218-01-9	**Chrysene**	**58**	**47 J**
50-32-8	**Benzo(a)pyrene**	**58**	**42 J**
193-39-5	Indeno(1,2,3-cd)pyrene	58	< 58 U
53-70-3	Dibenz(a,h)anthracene	58	< 58 U
TOTBFA	**Total Benzofluoranthenes**	**58**	**75**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	81.7%
2-Fluorobiphenyl	76.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: PSB11-14-16-073010
SAMPLE

Lab Sample ID: RG79H
LIMS ID: 10-18512
Matrix: Soil
Data Release Authorized: VJS
Reported: 08/21/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/18/10 16:59
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 16.5%

CAS Number	Analyte	RL	Result
56-55-3	**Benzo(a)anthracene**	**20**	**39**
218-01-9	**Chrysene**	**20**	**65**
50-32-8	**Benzo(a)pyrene**	**20**	**35**
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
TOTBFA	**Total Benzofluoranthenes**	**20**	**73**

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	82.0%
2-Fluorobiphenyl	68.8%

ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: PSB15-0-0.5-073010
SAMPLE

Lab Sample ID: RG79K
LIMS ID: 10-18515
Matrix: Soil
Data Release Authorized: VJ
Reported: 08/21/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/18/10 18:07
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 13.3%

CAS Number	Analyte	RL	Result	
56-55-3	Benzo(a)anthracene	20	60	
218-01-9	Chrysene	20	86	
50-32-8	Benzo(a)pyrene	20	86	
193-39-5	Indeno(1,2,3-cd)pyrene	20	31	
53-70-3	Dibenz(a,h)anthracene	20	14	J
TOTBFA	Total Benzofluoranthenes	20	180	

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	67.2%
2-Fluorobiphenyl	63.2%

ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: PSB15-1.5-2-073010
SAMPLE

Lab Sample ID: RG79L
LIMS ID: 10-18516
Matrix: Soil
Data Release Authorized: VB
Reported: 08/21/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/18/10 19:15
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 6.8%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	20	< 20 U
218-01-9	Chrysene	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
TOTBFA	Total Benzofluoranthenes	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	68.8%
2-Fluorobiphenyl	53.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: PSB15-2-4-073010
SAMPLE

Lab Sample ID: RG79M
LIMS ID: 10-18517
Matrix: Soil
Data Release Authorized: VJB
Reported: 08/21/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/18/10 20:17
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 25.8 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 4.8%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	19	< 19 U
218-01-9	Chrysene	19	< 19 U
50-32-8	Benzo(a)pyrene	19	< 19 U
193-39-5	Indeno(1,2,3-cd)pyrene	19	< 19 U
53-70-3	Dibenz(a,h)anthracene	19	< 19 U
TOTBFA	Total Benzofluoranthenes	19	< 19 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	72.4%
2-Fluorobiphenyl	60.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: PSB15-4-6-073010
SAMPLE

Lab Sample ID: RG79N
LIMS ID: 10-18518
Matrix: Soil
Data Release Authorized: WJ
Reported: 08/21/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/18/10 21:21
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 25.9 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 4.8%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	19	< 19 U
218-01-9	Chrysene	19	< 19 U
50-32-8	Benzo(a)pyrene	19	< 19 U
193-39-5	Indeno(1,2,3-cd)pyrene	19	< 19 U
53-70-3	Dibenz(a,h)anthracene	19	< 19 U
TOTBFA	Total Benzofluoranthenes	19	< 19 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	82.0%
2-Fluorobiphenyl	64.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: PSB15-17-19-073010
SAMPLE

Lab Sample ID: RG79P
LIMS ID: 10-18520
Matrix: Soil
Data Release Authorized: VJS
Reported: 08/21/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/18/10 22:23
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 19.0%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	20	< 20 U
218-01-9	Chrysene	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
TOTBFA	Total Benzofluoranthenes	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	72.0%
2-Fluorobiphenyl	55.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: PSB15-17-19-073010-D
SAMPLE

Lab Sample ID: RG79Q
LIMS ID: 10-18521
Matrix: Soil
Data Release Authorized: VJ
Reported: 08/21/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/18/10 23:24
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 25.5 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 12.6%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	20	< 20 U
218-01-9	Chrysene	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
TOTBFA	Total Benzofluoranthenes	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	74.8%
2-Fluorobiphenyl	57.6%

ANALYTICAL RESOURCES INCORPORATED

SW8270 PNA SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA

Client ID	TER	FBP	TOT OUT
PSB11-0-0.5-073010	90.7%	80.9%	0
PSB11-1.5-2-073010	53.2%	59.6%	0
PSB11-2-4-073010	72.0%	56.8%	0
PSB11-2-4-073010-D	75.2%	68.0%	0
MB-081210	85.2%	65.6%	0
LCS-081210	82.4%	58.8%	0
PSB11-4-6-073010	68.8%	69.2%	0
PSB11-4-6-073010 MS	75.2%	66.8%	0
PSB11-4-6-073010 MSD	72.8%	64.0%	0
PSB11-11-13-073010	81.7%	76.2%	0
PSB11-14-16-073010	82.0%	68.8%	0
PSB15-0-0.5-073010	67.2%	63.2%	0
PSB15-1.5-2-073010	68.8%	53.6%	0
PSB15-2-4-073010	72.4%	60.4%	0
PSB15-4-6-073010	82.0%	64.8%	0
MB-082410	74.4%	59.6%	0
LCS-082410	78.4%	64.4%	0
PSB15-13-15-073010	43.2%	61.6%	0
PSB15-17-19-073010	72.0%	55.2%	0
PSB15-17-19-073010-D	74.8%	57.6%	0

	LCS/MB LIMITS	QC LIMITS
(TER) = d14-p-Terphenyl	(47-112)	(35-112)
(FBP) = 2-Fluorobiphenyl	(40-100)	(34-100)

Prep Method: SW3550C
Log Number Range: 10-18505 to 10-18521

FORM-II SW8270 PNA

ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: PSB11-4-6-073010
MS/MSD

Lab Sample ID: RG79E
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized: VJS
Reported: 08/21/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted MS/MSD: 08/12/10

Date Analyzed MS: 08/18/10 13:33
MSD: 08/18/10 14:39
Instrument/Analyst MS: NT4/JZ
MSD: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount MS: 25.9 g-dry-wt
MSD: 26.3 g-dry-wt
Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL
Dilution Factor MS: 1.00
MSD: 1.00
Alumina Cleanup: No

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Benzo(a)anthracene	12.1	361	483	72.2%	334	475	67.8%	7.8%
Chrysene	20.9	364	483	71.0%	333	475	65.7%	8.9%
Benzo(a)pyrene	16.1	347	483	68.5%	326	475	65.2%	6.2%
Indeno(1,2,3-cd)pyrene	< 19.2	240	483	49.7%	216	475	45.5%	10.5%
Dibenz(a,h)anthracene	< 19.2	239	483	49.5%	206	475	43.4%	14.8%
Total Benzofluoranthenes	33.0	799	965	79.4%	779	951	78.4%	2.5%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: PSB11-4-6-073010
MATRIX SPIKE

Lab Sample ID: RG79E
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized: VJ
Reported: 08/21/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/18/10 13:33
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 25.9 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 8.6%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	19	---
218-01-9	Chrysene	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	---
TOTBFA	Total Benzofluoranthenes	19	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	75.2%
2-Fluorobiphenyl	66.8%

ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: PSB11-4-6-073010
MATRIX SPIKE DUPLICATE

Lab Sample ID: RG79E
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized: VB
Reported: 08/21/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/18/10 14:39
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 26.3 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 8.6%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	19	---
218-01-9	Chrysene	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	---
TOTBFA	Total Benzofluoranthenes	19	---

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	72.8%
2-Fluorobiphenyl	64.0%

ANALYTICAL RESOURCES INCORPORATED

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

Sample ID: LCS-081210
LAB CONTROL

Lab Sample ID: LCS-081210
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized: WTS
Reported: 08/21/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: NA
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/17/10 19:03
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 25.0 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: No

Analyte	Lab Control	Spike Added	Recovery
Benzo(a)anthracene	371	500	74.2%
Chrysene	365	500	73.0%
Benzo(a)pyrene	333	500	66.6%
Indeno(1,2,3-cd)pyrene	343	500	68.6%
Dibenz(a,h)anthracene	358	500	71.6%
Total Benzofluoranthenes	755	1000	75.5%

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	82.4%
2-Fluorobiphenyl	58.8%

Results reported in µg/kg

4B

SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

RG79MBS1

Lab Name: ANALYTICAL RESOURCES, INC — Client: FLOYD/SNIDER

ARI Job No: RG79 — Project: LORA LAKE RI

Lab File ID: 08171013 — Date Extracted: 08/12/10

Instrument ID: NT4 — Date Analyzed: 08/17/10

Matrix: SOLID — Time Analyzed: 1829

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	RG79LCSS1	RG79LCSS1	08171014	08/17/10
02	PSB11-0-0.5-0730	RG79A	08171015	08/17/10
03	PSB11-4-6-073010	RG79E	08181002	08/18/10
04	PSB11-4-6-07301	RG79EMS	08181003	08/18/10
05	PSB11-4-6-07301	RG79EMSD	08181004	08/18/10
06	PSB11-11-13-0730	RG79G	08181005	08/18/10
07	PSB11-14-16-0730	RG79H	08181006	08/18/10
08	PSB15-0-0.5-0730	RG79K	08181007	08/18/10
09	PSB15-1.5-2-0730	RG79L	08181008	08/18/10
10	PSB15-2-4-073010	RG79M	08181009	08/18/10
11	PSB15-4-6-073010	RG79N	08181010	08/18/10
12	PSB15-17-19-0730	RG79P	08181011	08/18/10
13	PSB15-17-19-0730	RG79Q	08181012	08/18/10
14	PSB11-1.5-2-0730	RG79B	08191013	08/19/10
15	PSB11-2-4-073010	RG79C	08191014	08/19/10
16	PSB11-2-4-073010	RG79D	08191015	08/19/10
17				
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FORM IV SV

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: MB-081210
METHOD BLANK

Lab Sample ID: MB-081210
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized: UJS
Reported: 08/21/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: NA
Date Received: NA

Date Extracted: 08/12/10
Date Analyzed: 08/17/10 18:29
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 25.0 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	20	< 20 U
218-01-9	Chrysene	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
TOTBFA	Total Benzofluoranthenes	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	85.2%
2-Fluorobiphenyl	65.6%

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

Instrument ID: NT4 Project: LORA LAKE RI

DFTPP Injection Date: 07/19/10 DFTPP Injection Time: 1618

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	28.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	34.2
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	10.0 - 80.0% of mass 198	55.5
197	Less than 2.0% 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 - 60.0% of mass 198	23.4
365	Greater than 1.0% of mass 198	2.50
441	0.0 - 24.0% of mass 442	13.5 (15.4)2
442	50.0 - 200.0% of mass 198	87.7
443	15.0 - 24.0% of mass 442	17.3 (19.8)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	IC250719	IC250719	07191001	07/19/10	1618
02	IC010719	IC010719	07191002	07/19/10	1656
03	IC050719	IC050719	07191003	07/19/10	1733
04	IC100719	IC100719	07191004	07/19/10	1807
05	IC400719	IC400719	07191005	07/19/10	1841
06	IC600719	IC600719	07191006	07/19/10	1914
07	IC800719	IC800719	07191007	07/19/10	1948
08					
09					
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22					

FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

Instrument ID: NT4 Project: LORA LAKE RI

DFTPP Injection Date: 08/17/10 DFTPP Injection Time: 1052

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	28.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	33.5
70	Less than 2.0% of mass 69	0.2 (0.6)1
127	10.0 - 80.0% of mass 198	53.2
197	Less than 2.0% 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 - 60.0% of mass 198	24.1
365	Greater than 1.0% of mass 198	2.49
441	0.0 - 24.0% of mass 442	5.5 (5.6)2
442	50.0 - 200.0% of mass 198	97.9
443	15.0 - 24.0% of mass 442	19.2 (19.7)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	CC0817	CC0817	08171001	08/17/10	1052
02	RG79MBS1	RG79MBS1	08171013	08/17/10	1829
03	RG79LCSS1	RG79LCSS1	08171014	08/17/10	1903
04	PSB11-0-0.5-0730	RG79A	08171015	08/17/10	1936
05					
06					
07					
08					
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21					
22					

FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

Instrument ID: NT4 Project: LORA LAKE RI

DFTPP Injection Date: 08/18/10 DFTPP Injection Time: 1226

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	29.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	35.0
70	Less than 2.0% of mass 69	0.0 (0.1)1
127	10.0 - 80.0% of mass 198	55.8
197	Less than 2.0% 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 - 60.0% of mass 198	23.8
365	Greater than 1.0% of mass 198	2.66
441	0.0 - 24.0% of mass 442	10.9 (11.3)2
442	50.0 - 200.0% of mass 198	96.4
443	15.0 - 24.0% of mass 442	18.6 (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	CC0818	CC0818	08181001	08/18/10	1226
02	PSB11-4-6-073010	RG79E	08181002	08/18/10	1259
03	PSB11-4-6-07301	RG79EMS	08181003	08/18/10	1333
04	PSB11-4-6-07301	RG79EMSD	08181004	08/18/10	1439
05	PSB11-11-13-0730	RG79G	08181005	08/18/10	1546
06	PSB11-14-16-0730	RG79H	08181006	08/18/10	1659
07	PSB15-0-0.5-0730	RG79K	08181007	08/18/10	1807
08	PSB15-1.5-2-0730	RG79L	08181008	08/18/10	1915
09	PSB15-2-4-073010	RG79M	08181009	08/18/10	2017
10	PSB15-4-6-073010	RG79N	08181010	08/18/10	2121
11	PSB15-17-19-0730	RG79P	08181011	08/18/10	2223
12	PSB15-17-19-0730	RG79Q	08181012	08/18/10	2324
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14					
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19					
20					
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22					

FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

Instrument ID: NT4 Project: LORA LAKE RI

DFTPP Injection Date: 08/19/10 DFTPP Injection Time: 1340

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	29.4
68	Less than 2.0% of mass 69	0.1 (0.3)1
69	Mass 69 relative abundance	35.8
70	Less than 2.0% of mass 69	0.5 (1.5)1
127	10.0 - 80.0% of mass 198	54.0
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 60.0% of mass 198	22.8
365	Greater than 1.0% of mass 198	2.32
441	0.0 - 24.0% of mass 442	2.8 (2.9)2
442	50.0 - 200.0% of mass 198	96.4
443	15.0 - 24.0% of mass 442	18.2 (18.8)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	CC0819	CC0819	08191001	08/19/10	1340
02	PSB11-1.5-2-0730	RG79B	08191013	08/19/10	2035
03	PSB11-2-4-073010	RG79C	08191014	08/19/10	2108
04	PSB11-2-4-073010	RG79D	08191015	08/19/10	2141
05					
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FORM V SV

SEMIVOLATILE 8270-D INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG79 Project: LORA LAKE RI

Instrument ID: NT4 Calibration Date: 07/19/10

LAB FILE ID: RRF1 =07191002 RRF5 =07191003 RRF10 =07191004
RRF25 =07191001 RRF40 =07191005 RRF60 =07191006
RRF80 =07191007

COMPOUND	RRF 1	RRF 5	RRF 10	RRF 25	RRF 40	RRF 60	RRF 80	$\overline{RRF}$	%RSD /R^2
Naphthalene	1.181	1.019	1.014	0.962	0.896	0.777	0.792	0.949	14.9
2-Methylnaphthalene	0.746	0.663	0.663	0.650	0.638	0.574	0.580	0.645	9.0
Acenaphthylene	1.949	1.755	1.753	1.672	1.560	1.388	1.409	1.641	12.3
Acenaphthene	1.245	1.099	1.112	1.066	1.031	0.944	0.980	1.068	9.2
Dibenzofuran	1.646	1.492	1.498	1.424	1.360	1.260	1.288	1.424	9.5
Fluorene	1.445	1.300	1.316	1.260	1.179	1.051	1.074	1.232	11.4
Phenanthrene	1.270	1.078	1.084	1.038	0.986	0.893	0.904	1.036	12.4
Anthracene	1.269	1.107	1.124	1.074	1.022	0.908	0.916	1.060	11.9
Fluoranthene	1.233	1.101	1.145	1.101	1.070	0.936	0.928	1.073	10.2
Pyrene	1.549	1.324	1.302	1.293	1.196	1.087	1.126	1.268	12.1
Benzo(a)anthracene	1.400	1.207	1.241	1.176	1.116	1.016	1.050	1.172	11.0
Chrysene	1.384	1.200	1.214	1.158	1.079	0.977	1.021	1.148	12.0
Benzo(a)pyrene	1.234	1.104	1.132	1.125	1.085	1.008	1.041	1.104	6.6
Indeno(1,2,3-cd)pyrene	1.109	1.079	1.195	1.245	1.261	1.177	1.234	1.186	5.9
Dibenzo(a,h)anthracene	0.819	0.863	0.968	1.027	1.038	0.954	1.003	0.953	8.8
Benzo(g,h,i)perylene	0.944	0.900	1.054	1.046	1.078	1.014	1.058	1.013	6.6
1-methylnaphthalene	0.738	0.636	0.645	0.635	0.631	0.563	0.574	0.632	9.1
Total Benzofluoranthenes	1.382	1.227	1.244	1.199	1.142	1.024	1.044	1.180	10.5
Terphenyl-d14	0.936	0.818	0.742	0.802	0.727	0.686	0.710	0.774	11.1
2-Fluorobiphenyl	1.464	1.332	1.174	1.258	1.162	1.080	1.106	1.225	11.1

<- Outside QC limits: %RSD <20% or R^2 > 0.990

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG79 Project: LORA LAKE RI

Instrument ID: NT4 Cont. Calib. Date: 08/17/10

Init. Calib. Date: 07/19/10 Cont. Calib. Time: 1052

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
Naphthalene	0.949	0.908	0.700	AVRG	-4.3
2-Methylnaphthalene	0.645	0.629	0.400	AVRG	-2.5
Acenaphthylene	1.641	1.600	0.900	AVRG	-2.5
Acenaphthene	1.068	1.014	0.900	AVRG	-5.0
Dibenzofuran	1.424	1.360	0.800	AVRG	-4.5
Fluorene	1.232	1.159	0.900	AVRG	-5.9
Phenanthrene	1.036	0.929	0.700	AVRG	-10.3
Anthracene	1.060	0.963	0.700	AVRG	-9.2
Fluoranthene	1.073	0.986	0.600	AVRG	-8.1
Pyrene	1.268	1.198	0.600	AVRG	-5.5
Benzo(a)anthracene	1.172	1.103	0.800	AVRG	-5.9
Chrysene	1.148	1.081	0.700	AVRG	-5.8
Benzo(a)pyrene	1.104	1.036	0.700	AVRG	-6.2
Indeno(1,2,3-cd)pyrene	1.186	1.190	0.500	AVRG	0.3
Dibenzo(a,h)anthracene	0.953	0.972	0.400	AVRG	2.0
Benzo(g,h,i)perylene	1.013	1.045	0.500	AVRG	3.2
1-methylnaphthalene	0.632	0.621	0.010	AVRG	-1.7
Total Benzofluoranthenes	1.180	1.075	0.010	AVRG	-8.9
Terphenyl-d14	0.774	0.733	0.010	AVRG	-5.3
2-Fluorobiphenyl	1.225	1.107	0.010	AVRG	-9.6

<- Exceeds QC limit of 20% D
* RF less than minimum RF

FORM VII SV-1

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG79 Project: LORA LAKE RI

Instrument ID: NT4 Cont. Calib. Date: 08/18/10

Init. Calib. Date: 07/19/10 Cont. Calib. Time: 1226

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
Naphthalene	0.949	0.904	0.700	AVRG	-4.7
2-Methylnaphthalene	0.645	0.596	0.400	AVRG	-7.6
Acenaphthylene	1.641	1.576	0.900	AVRG	-4.0
Acenaphthene	1.068	1.004	0.900	AVRG	-6.0
Dibenzofuran	1.424	1.343	0.800	AVRG	-5.7
Fluorene	1.232	1.152	0.900	AVRG	-6.5
Phenanthrene	1.036	0.926	0.700	AVRG	-10.6
Anthracene	1.060	0.962	0.700	AVRG	-9.2
Fluoranthene	1.073	1.023	0.600	AVRG	-4.6
Pyrene	1.268	1.247	0.600	AVRG	-1.6
Benzo(a)anthracene	1.172	1.112	0.800	AVRG	-5.1
Chrysene	1.148	1.085	0.700	AVRG	-5.5
Benzo(a)pyrene	1.104	1.035	0.700	AVRG	-6.2
Indeno(1,2,3-cd)pyrene	1.186	1.174	0.500	AVRG	-1.0
Dibenzo(a,h)anthracene	0.953	0.964	0.400	AVRG	1.2
Benzo(g,h,i)perylene	1.013	1.022	0.500	AVRG	0.9
1-methylnaphthalene	0.632	0.583	0.010	AVRG	-7.8
Total Benzofluoranthenes	1.180	1.066	0.010	AVRG	-9.7
Terphenyl-d14	0.774	0.741	0.010	AVRG	-4.3
2-Fluorobiphenyl	1.225	1.111	0.010	AVRG	-9.3

<- Exceeds QC limit of 20% D
* RF less than minimum RF

FORM VII SV-1

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG79 Project: LORA LAKE RI

Instrument ID: NT4 Cont. Calib. Date: 08/19/10

Init. Calib. Date: 07/19/10 Cont. Calib. Time: 1340

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
Naphthalene	0.949	0.920	0.700	AVRG	-3.0
2-Methylnaphthalene	0.645	0.611	0.400	AVRG	-5.3
Acenaphthylene	1.641	1.645	0.900	AVRG	0.2
Acenaphthene	1.068	1.031	0.900	AVRG	-3.5
Dibenzofuran	1.424	1.383	0.800	AVRG	-2.9
Fluorene	1.232	1.160	0.900	AVRG	-5.8
Phenanthrene	1.036	0.934	0.700	AVRG	-9.8
Anthracene	1.060	0.973	0.700	AVRG	-8.2
Fluoranthene	1.073	1.006	0.600	AVRG	-6.2
Pyrene	1.268	1.231	0.600	AVRG	-2.9
Benzo(a)anthracene	1.172	1.120	0.800	AVRG	-4.4
Chrysene	1.148	1.095	0.700	AVRG	-4.6
Benzo(a)pyrene	1.104	1.035	0.700	AVRG	-6.2
Indeno(1,2,3-cd)pyrene	1.186	1.130	0.500	AVRG	-4.7
Dibenzo(a,h)anthracene	0.953	0.929	0.400	AVRG	-2.5
Benzo(g,h,i)perylene	1.013	0.935	0.500	AVRG	-7.7
1-methylnaphthalene	0.632	0.610	0.010	AVRG	-3.5
Total Benzofluoranthenes	1.180	1.076	0.010	AVRG	-8.8
Terphenyl-d14	0.774	0.728	0.010	AVRG	-5.9
2-Fluorobiphenyl	1.225	1.107	0.010	AVRG	-9.6

<- Exceeds QC limit of 20% D
* RF less than minimum RF

FORM VII SV-1

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG79 Project: LORA LAKE RI

Ical Midpoint ID: 07191001 Ical Date: 07/19/10

Instrument ID: NT4 Cont. Cal Date: 08/17/10

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
	ICAL MIDPT	356478		8.70		1293412		10.74		785897		13.63	
	UPPER LIMIT	712956				2586824				1571794			
	LOWER LIMIT	178239				646706				392948			
	CCAL	481605		7.80		1689840		9.84		1087401		12.69	
	UPPER LIMIT			8.30				10.34				13.19	
	LOWER LIMIT			7.30				9.34				12.19	
01	RG79MBS1					1308529		9.83		840053		12.69	
02	RG79LCSS1					1690628		9.83		1012338		12.69	
03	PSB11-0-0.5-					1616787		9.83		970349		12.69	
04													
05													
06													
07													
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IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-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: FLOYD/SNIDER

ARI Job No: RG79 Project: LORA LAKE RI

Ical Midpoint ID: 07191001 Ical Date: 07/19/10

Instrument ID: NT4 Cont. Cal Date: 08/17/10

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	ICAL MIDPT	1313990		16.03		1155293		20.38		1146289		22.58	
	UPPER LIMIT	2627980				2310586				2292578			
	LOWER LIMIT	656995				577646				573144			
	CCAL	1851340		15.06		1572429		19.37		1639408		21.52	
	UPPER LIMIT			15.56				19.87				22.02	
	LOWER LIMIT			14.56				18.87				21.02	
01	RG79MBS1	1391109		15.06		1193377		19.36		1172911		21.51	
02	RG79LCSS1	1748315		15.05		1506491		19.36		1439845		21.52	
03	PSB11-0-0.5-	1615641		15.05		1496212		19.37		973412		21.53	
04													
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23													
24													
25													

IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = 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: FLOYD/SNIDER

ARI Job No: RG79 Project: LORA LAKE RI

Ical Midpoint ID: 07191001 Ical Date: 07/19/10

Instrument ID: NT4 Cont. Cal Date: 08/17/10

		IS7 AREA #	RT #	AREA #	RT #	AREA #	RT #
	ICAL MIDPT	1825297	21.45				
	UPPER LIMIT	3650594					
	LOWER LIMIT	912648					
	CCAL	2437093	20.52				
	UPPER LIMIT		21.02				
	LOWER LIMIT		20.02				
01	RG79MBS1						
02	RG79LCSS1						
03	PSB11-0-0.5-						
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
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17							
18							
19							
20							
21							
22							
23							
24							
25							

IS7 = Di-n-octylphthalate-d4

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-3

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG79 Project: LORA LAKE RI

Ical Midpoint ID: 07191001 Ical Date: 07/19/10

Instrument ID: NT4 Cont. Cal Date: 08/18/10

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	ICAL MIDPT	356478	8.70	1293412	10.74	785897	13.63
	UPPER LIMIT	712956		2586824		1571794	
	LOWER LIMIT	178239		646706		392948	
	CCAL	532660	7.74	1838372	9.77	1067021	12.62
	UPPER LIMIT		8.24		10.27		13.12
	LOWER LIMIT		7.24		9.27		12.12
01	PSB11-4-6-07			1508637	9.77	906754	12.62
02	PSB11-4-6-07			1644357	9.77	1020181	12.62
03	PSB11-4-6-07			1633426	9.77	1019641	12.62
04	PSB11-11-13-			1463129	9.77	884984	12.62
05	PSB11-14-16-			1432018	9.77	864072	12.62
06	PSB15-0-0.5-			1443686	9.77	870485	12.62
07	PSB15-1.5-2-			1403747	9.77	878416	12.62
08	PSB15-2-4-07			1493449	9.77	861798	12.62
09	PSB15-4-6-07			1274710	9.77	813181	12.62
10	PSB15-17-19-			1530271	9.77	898734	12.62
11	PSB15-17-19-			1518235	9.77	879986	12.62
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25							

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-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: FLOYD/SNIDER

ARI Job No: RG79 Project: LORA LAKE RI

Ical Midpoint ID: 07191001 Ical Date: 07/19/10

Instrument ID: NT4 Cont. Cal Date: 08/18/10

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	ICAL MIDPT	1313990		16.03		1155293		20.38		1146289		22.58	
	UPPER LIMIT	2627980				2310586				2292578			
	LOWER LIMIT	656995				577646				573144			
	CCAL	1785358		14.99		1511136		19.29		1605196		21.44	
	UPPER LIMIT			15.49				19.79				21.94	
	LOWER LIMIT			14.49				18.79				20.94	
01	PSB11-4-6-07	1477381		14.98		1363509		19.29		1276664		21.46	
02	PSB11-4-6-07	1682426		14.99		1482177		19.31		1170751		21.47	
03	PSB11-4-6-07	1774095		14.99		1562988		19.31		1131662		21.48	
04	PSB11-11-13-	1512318		14.99		1355731		19.30		807503		21.47	
05	PSB11-14-16-	1474359		15.00		1154755		19.32		622609		21.49	
06	PSB15-0-0.5-	1495284		14.99		1374299		19.30		883544		21.46	
07	PSB15-1.5-2-	1479409		14.98		1318929		19.28		1068469		21.44	
08	PSB15-2-4-07	1438009		14.98		1366722		19.28		1058341		21.44	
09	PSB15-4-6-07	1374902		14.98		1213654		19.28		1012667		21.44	
10	PSB15-17-19-	1469284		14.98		1402247		19.28		1133585		21.43	
11	PSB15-17-19-	1442172		14.98		1397852		19.28		1137427		21.44	
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25													

IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = 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: FLOYD/SNIDER

ARI Job No: RG79 Project: LORA LAKE RI

Ical Midpoint ID: 07191001 Ical Date: 07/19/10

Instrument ID: NT4 Cont. Cal Date: 08/18/10

		IS7 AREA #	RT #	AREA #	RT #	AREA #	RT #
	ICAL MIDPT	1825297	21.45				
	UPPER LIMIT	3650594					
	LOWER LIMIT	912648					
	CCAL	2309854	20.45				
	UPPER LIMIT		20.95				
	LOWER LIMIT		19.95				
01	PSB11-4-6-07						
02	PSB11-4-6-07						
03	PSB11-4-6-07						
04	PSB11-11-13-						
05	PSB11-14-16-						
06	PSB15-0-0.5-						
07	PSB15-1.5-2-						
08	PSB15-2-4-07						
09	PSB15-4-6-07						
10	PSB15-17-19-						
11	PSB15-17-19-						
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25							

IS7 = Di-n-octylphthalate-d4

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-3

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG79 Project: LORA LAKE RI

Ical Midpoint ID: 07191001 Ical Date: 07/19/10

Instrument ID: NT4 Cont. Cal Date: 08/19/10

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	ICAL MIDPT	356478	8.70	1293412	10.74	785897	13.63
	UPPER LIMIT	712956		2586824		1571794	
	LOWER LIMIT	178239		646706		392948	
	CCAL	386792	7.68	1352410	9.72	840037	12.57
	UPPER LIMIT		8.18		10.22		13.07
	LOWER LIMIT		7.18		9.22		12.07
01	PSB11-1.5-2-			1581290	9.72	966301	12.56
02	PSB11-2-4-07			1714387	9.72	1051836	12.56
03	PSB11-2-4-07			1588583	9.72	1023882	12.56
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IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10

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AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
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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: FLOYD/SNIDER

ARI Job No: RG79 Project: LORA LAKE RI

Ical Midpoint ID: 07191001 Ical Date: 07/19/10

Instrument ID: NT4 Cont. Cal Date: 08/19/10

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	ICAL MIDPT	1313990	16.03	1155293	20.38	1146289	22.58
	UPPER LIMIT	2627980		2310586		2292578	
	LOWER LIMIT	656995		577646		573144	
	CCAL	1383202	14.93	1161620	19.22	1257185	21.37
	UPPER LIMIT		15.43		19.72		21.87
	LOWER LIMIT		14.43		18.72		20.87
01	PSB11-1.5-2-	1688418	14.92	1521945	19.23	933504	21.39
02	PSB11-2-4-07	1832866	14.92	1370983	19.24	624089	21.42
03	PSB11-2-4-07	1770132	14.92	1525443	19.23	762859	21.40
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IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
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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: FLOYD/SNIDER

ARI Job No: RG79 Project: LORA LAKE RI

Ical Midpoint ID: 07191001 Ical Date: 07/19/10

Instrument ID: NT4 Cont. Cal Date: 08/19/10

		IS7 AREA #	RT #	AREA #	RT #	AREA #	RT #
	ICAL MIDPT	1825297	21.45				
	UPPER LIMIT	3650594					
	LOWER LIMIT	912648					
	CCAL	1834295	20.38				
	UPPER LIMIT		20.88				
	LOWER LIMIT		19.88				
01	PSB11-1.5-2-						
02	PSB11-2-4-07						
03	PSB11-2-4-07						
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IS7 = Di-n-octylphthalate-d4

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-3

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: PSB15-13-15-073010
SAMPLE

Lab Sample ID: RG790
LIMS ID: 10-18519
Matrix: Soil
Data Release Authorized:
Reported: 08/27/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/24/10
Date Analyzed: 08/25/10 13:23
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 8.39 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 16.1%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	60	< 60 U
218-01-9	Chrysene	60	< 60 U
50-32-8	Benzo(a)pyrene	60	< 60 U
193-39-5	Indeno(1,2,3-cd)pyrene	60	< 60 U
53-70-3	Dibenz(a,h)anthracene	60	< 60 U
TOTBFA	Total Benzofluoranthenes	60	< 60 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	43.2%
2-Fluorobiphenyl	61.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: LCS-082410
LAB CONTROL

Lab Sample ID: LCS-082410
LIMS ID: 10-18519
Matrix: Soil
Data Release Authorized:
Reported: 08/26/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: NA
Date Received: 07/31/10

Date Extracted: 08/24/10
Date Analyzed: 08/25/10 12:16
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes

Sample Amount: 25.0 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Alumina Cleanup: No

Analyte	Lab Control	Spike Added	Recovery
Benzo(a)anthracene	356	500	71.2%
Chrysene	347	500	69.4%
Benzo(a)pyrene	327	500	65.4%
Indeno(1,2,3-cd)pyrene	392	500	78.4%
Dibenz(a,h)anthracene	395	500	79.0%
Total Benzofluoranthenes	672	1000	67.2%

Semivolatile Surrogate Recovery	
dl4-p-Terphenyl	78.4%
2-Fluorobiphenyl	64.4%

Results reported in µg/kg

4B

SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

RG78MBS2

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG78 Project: LORA LAKE RI

Lab File ID: 08251002 Date Extracted: 08/24/10

Instrument ID: NT4 Date Analyzed: 08/25/10

Matrix: SOLID Time Analyzed: 1142

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	RG78LCSS2	RG78LCSS2	08251003	08/25/10
02	PSB9A-0-0.5-0730	RG78ERE	08251004	08/25/10
03	PSB15-13-15-0730	RG79ORE	08251005	08/25/10
04				
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30				

FORM IV SV

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D GC/MS

Sample ID: MB-082410
METHOD BLANK

Lab Sample ID: MB-082410
LIMS ID: 10-18519
Matrix: Soil
Data Release Authorized:
Reported: 08/26/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: NA
Date Received: NA

Date Extracted: 08/24/10
Date Analyzed: 08/25/10 11:42
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Alumina: No
Silica Gel: Yes

Sample Amount: 25.0 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	20	< 20 U
218-01-9	Chrysene	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
TOTBFA	Total Benzofluoranthenes	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	74.4%
2-Fluorobiphenyl	59.6%

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

Instrument ID: NT4 Project: LORO LAKE RI

DFTPP Injection Date: 07/19/10 DFTPP Injection Time: 1618

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	28.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	34.2
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	10.0 - 80.0% of mass 198	55.5
197	Less than 2.0% 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 - 60.0% of mass 198	23.4
365	Greater than 1.0% of mass 198	2.50
441	0.0 - 24.0% of mass 442	13.5 (15.4)2
442	50.0 - 200.0% of mass 198	87.7
443	15.0 - 24.0% of mass 442	17.3 (19.8)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	IC250719	IC250719	07191001	07/19/10	1618
02	IC010719	IC010719	07191002	07/19/10	1656
03	IC050719	IC050719	07191003	07/19/10	1733
04	IC100719	IC100719	07191004	07/19/10	1807
05	IC400719	IC400719	07191005	07/19/10	1841
06	IC600719	IC600719	07191006	07/19/10	1914
07	IC800719	IC800719	07191007	07/19/10	1948
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FORM V SV

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

Instrument ID: NT4 Project: LORO LAKE RI

DFTPP Injection Date: 08/25/10 DFTPP Injection Time: 1054

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	29.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	35.5
70	Less than 2.0% of mass 69	0.4 (1.0)1
127	10.0 - 80.0% of mass 198	54.5
197	Less than 2.0% 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 - 60.0% of mass 198	23.5
365	Greater than 1.0% of mass 198	2.49
441	0.0 - 24.0% of mass 442	11.1 (11.6)2
442	50.0 - 200.0% of mass 198	95.5
443	15.0 - 24.0% of mass 442	19.0 (19.9)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	CC0825	CC0825	08251001	08/25/10	1054
02	RG78MBS2	RG78MBS2	08251002	08/25/10	1142
03	RG78LCSS2	RG78LCSS2	08251003	08/25/10	1216
04	PSB9A-0-0.5-0730	RG78ERE	08251004	08/25/10	1249
05	PSB15-13-15-0730	RG79ORE	08251005	08/25/10	1323
06					
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FORM V SV

6B

SEMIVOLATILE 8270-D INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG78 Project: LORO LAKE RI

Instrument ID: NT4 Calibration Date: 07/19/10

LAB FILE ID: RRF1 =07191002 RRF5 =07191003 RRF10 =07191004
RRF25 =07191001 RRF40 =07191005 RRF60 =07191006
RRF80 =07191007

COMPOUND	RRF 1	RRF 5	RRF 10	RRF 25	RRF 40	RRF 60	RRF 80	___ RRF	%RSD /R^2
Naphthalene	1.181	1.019	1.014	0.962	0.896	0.777	0.792	0.949	14.9
2-Methylnaphthalene	0.746	0.663	0.663	0.650	0.638	0.574	0.580	0.645	9.0
Acenaphthylene	1.949	1.755	1.753	1.672	1.560	1.388	1.409	1.641	12.3
Acenaphthene	1.245	1.099	1.112	1.066	1.031	0.944	0.980	1.068	9.2
Dibenzofuran	1.646	1.492	1.498	1.424	1.360	1.260	1.288	1.424	9.5
Fluorene	1.445	1.300	1.316	1.260	1.179	1.051	1.074	1.232	11.4
Phenanthrene	1.270	1.078	1.084	1.038	0.986	0.893	0.904	1.036	12.4
Anthracene	1.269	1.107	1.124	1.074	1.022	0.908	0.916	1.060	11.9
Fluoranthene	1.233	1.101	1.145	1.101	1.070	0.936	0.928	1.073	10.2
Pyrene	1.549	1.324	1.302	1.293	1.196	1.087	1.126	1.268	12.1
Benzo(a)anthracene	1.400	1.207	1.241	1.176	1.116	1.016	1.050	1.172	11.0
Chrysene	1.384	1.200	1.214	1.158	1.079	0.977	1.021	1.148	12.0
Benzo(a)pyrene	1.234	1.104	1.132	1.125	1.085	1.008	1.041	1.104	6.6
Indeno(1,2,3-cd)pyrene	1.109	1.079	1.195	1.245	1.261	1.177	1.234	1.186	5.9
Dibenzo(a,h)anthracene	0.819	0.863	0.968	1.027	1.038	0.954	1.003	0.953	8.8
Benzo(g,h,i)perylene	0.944	0.900	1.054	1.046	1.078	1.014	1.058	1.013	6.6
1-methylnaphthalene	0.738	0.636	0.645	0.635	0.631	0.563	0.574	0.632	9.1
Total Benzofluoranthenes	1.382	1.227	1.244	1.199	1.142	1.024	1.044	1.180	10.5
Terphenyl-d14	0.936	0.818	0.742	0.802	0.727	0.686	0.710	0.774	11.1
2-Fluorobiphenyl	1.464	1.332	1.174	1.258	1.162	1.080	1.106	1.225	11.1

<- Outside QC limits: %RSD <20% or R^2 > 0.990

7B

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG78 Project: LORO LAKE RI

Instrument ID: NT4 Cont. Calib. Date: 08/25/10

Init. Calib. Date: 07/19/10 Cont. Calib. Time: 1054

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
Naphthalene	0.949	0.914	0.700	AVRG	-3.7
2-Methylnaphthalene	0.645	0.594	0.400	AVRG	-7.9
Acenaphthylene	1.641	1.595	0.900	AVRG	-2.8
Acenaphthene	1.068	0.996	0.900	AVRG	-6.7
Dibenzofuran	1.424	1.339	0.800	AVRG	-6.0
Fluorene	1.232	1.137	0.900	AVRG	-7.7
Phenanthrene	1.036	0.939	0.700	AVRG	-9.4
Anthracene	1.060	0.974	0.700	AVRG	-8.1
Fluoranthene	1.073	0.962	0.600	AVRG	-10.3
Pyrene	1.268	1.253	0.600	AVRG	-1.2
Benzo(a)anthracene	1.172	1.133	0.800	AVRG	-3.3
Chrysene	1.148	1.103	0.700	AVRG	-3.9
Benzo(a)pyrene	1.104	1.034	0.700	AVRG	-6.3
Indeno(1,2,3-cd)pyrene	1.186	1.218	0.500	AVRG	2.7
Dibenzo(a,h)anthracene	0.953	1.009	0.400	AVRG	5.9
Benzo(g,h,i)perylene	1.013	1.082	0.500	AVRG	6.8
1-methylnaphthalene	0.632	0.581	0.010	AVRG	-8.1
Total Benzofluoranthenes	1.180	1.051	0.010	AVRG	-10.9
Terphenyl-d14	0.774	0.720	0.010	AVRG	-7.0
2-Fluorobiphenyl	1.225	1.115	0.010	AVRG	-9.0

<- Exceeds QC limit of 20% D

* RF less than minimum RF

FORM VII SV-1

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG78 Project: LORO LAKE RI

Ical Midpoint ID: 07191001 Ical Date: 07/19/10

Instrument ID: NT4 Cont. Cal Date: 08/25/10

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	ICAL MIDPT	356478	8.70	1293412	10.74	785897	13.63
	UPPER LIMIT	712956		2586824		1571794	
	LOWER LIMIT	178239		646706		392948	
	CCAL	398586	7.52	1359281	9.56	795834	12.40
	UPPER LIMIT		8.02		10.06		12.90
	LOWER LIMIT		7.02		9.06		11.90
01	RG78MBS2			1760219	9.56	1044927	12.40
02	RG78LCSS2			1722044	9.55	1033820	12.40
03	PSB9A-0-0.5-			1762005	9.55	1050442	12.40
04	PSB15-13-15-			1761958	9.55	1038825	12.39
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No: RG78 Project: LORO LAKE RI

Ical Midpoint ID: 07191001 Ical Date: 07/19/10

Instrument ID: NT4 Cont. Cal Date: 08/25/10

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	ICAL MIDPT	1313990		16.03		1155293		20.38		1146289		22.58	
	UPPER LIMIT	2627980				2310586				2292578			
	LOWER LIMIT	656995				577646				573144			
	CCAL	1279774		14.75		1003908		19.03		1186080		21.17	
	UPPER LIMIT			15.25				19.53				21.67	
	LOWER LIMIT			14.25				18.53				20.67	
01	RG78MBS2	1628771		14.75		1348280		19.03		1426142		21.17	
02	RG78LCSS2	1584991		14.75		1299858		19.03		1457844		21.17	
03	PSB9A-0-0.5-	1580793		14.75		1315117		19.02		1466690		21.17	
04	PSB15-13-15-	1584948		14.75		1451077		19.03		1555973		21.18	
05													
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													

IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = 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: FLOYD/SNIDER

ARI Job No: RG78 Project: LORO LAKE RI

Ical Midpoint ID: 07191001 Ical Date: 07/19/10

Instrument ID: NT4 Cont. Cal Date: 08/25/10

		IS7 AREA #	RT #	AREA #	RT #	AREA #	RT #
	ICAL MIDPT	1825297	21.45				
	UPPER LIMIT	3650594					
	LOWER LIMIT	912648					
	CCAL	1590251	20.22				
	UPPER LIMIT		20.72				
	LOWER LIMIT		19.72				
01	RG78MBS2						
02	RG78LCSS2						
03	PSB9A-0-0.5-						
04	PSB15-13-15-						
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

IS7 = Di-n-octylphthalate-d4

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-3

PCP/Chlorophenols Analysis
Report and Summary QC Forms

ARI Job ID: RG79

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB11-0-0.5-073010
SAMPLE

Lab Sample ID: RG79A
LIMS ID: 10-18505
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/24/10 02:51
Instrument/Analyst: ECD1/AAR

Sample Amount: 9.11 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 9.6%

CAS Number	Analyte	RL	Result
87-86-5	**Pentachlorophenol**	**6.9**	**12**

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	30.1%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB11-1.5-2-073010
SAMPLE

Lab Sample ID: RG79B
LIMS ID: 10-18506
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/24/10 03:11
Instrument/Analyst: ECD1/AAR

Sample Amount: 9.14 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 10.0
Percent Moisture: 8.6%

CAS Number	Analyte	RL	Result
87-86-5	**Pentachlorophenol**	68	2,400

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	18.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB11-2-4-073010
SAMPLE

Lab Sample ID: RG79C
LIMS ID: 10-18507
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/23/10 20:12
Instrument/Analyst: ECD1/AAR

Sample Amount: 8.51 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 10.0
Percent Moisture: 15.3%

CAS Number	Analyte	RL	Result
87-86-5	**Pentachlorophenol**	**73**	**1,100**

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	31.1%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB11-2-4-073010-D
SAMPLE

Lab Sample ID: RG79D
LIMS ID: 10-18508
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/23/10 20:32
Instrument/Analyst: ECD1/AAR

Sample Amount: 8.62 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 10.0
Percent Moisture: 14.1%

CAS Number	Analyte	RL	Result
87-86-5	**Pentachlorophenol**	**73**	**1,300**

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	52.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041

Sample ID: PSB11-4-6-073010
SAMPLE

Lab Sample ID: RG79E
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/23/10 20:52
Instrument/Analyst: ECD1/AAR

Sample Amount: 9.17 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 8.6%

CAS Number	Analyte	RL	Result
87-86-5	**Pentachlorophenol**	**6.8**	**210**

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	67.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041

Sample ID: PSB11-11-13-073010
SAMPLE

Lab Sample ID: RG79G
LIMS ID: 10-18511
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/23/10 21:52
Instrument/Analyst: ECD1/AAR

Sample Amount: 8.87 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 11.6%

CAS Number	Analyte	RL	Result
87-86-5	**Pentachlorophenol**	**7.0**	**210**

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	42.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB11-14-16-073010
SAMPLE

Lab Sample ID: RG79H
LIMS ID: 10-18512
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/23/10 23:11
Instrument/Analyst: ECD1/AAR

Sample Amount: 8.37 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 16.5%

CAS Number	Analyte	RL	Result
87-86-5	**Pentachlorophenol**	**7.5**	**160**

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	58.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041

Sample ID: PSB15-0-0.5-073010
SAMPLE

Lab Sample ID: RG79K
LIMS ID: 10-18515
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/23/10 23:31
Instrument/Analyst: ECD1/AAR

Sample Amount: 8.70 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 10.0
Percent Moisture: 13.3%

CAS Number	Analyte	RL	Result
87-86-5	**Pentachlorophenol**	**72**	**480**

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	78.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB15-1.5-2-073010
SAMPLE

Lab Sample ID: RG79L
LIMS ID: 10-18516
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/23/10 23:51
Instrument/Analyst: ECD1/AAR

Sample Amount: 9.38 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 6.8%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.7	< 6.7 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	37.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB15-2-4-073010
SAMPLE

Lab Sample ID: RG79M
LIMS ID: 10-18517
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/24/10 00:11
Instrument/Analyst: ECD1/AAR

Sample Amount: 9.57 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 4.8%

CAS Number	Analyte	RL	Result
87-86-5	**Pentachlorophenol**	**6.5**	**14**

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	27.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB15-4-6-073010
SAMPLE

Lab Sample ID: RG79N
LIMS ID: 10-18518
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/24/10 00:31
Instrument/Analyst: ECD1/AAR

Sample Amount: 9.55 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 4.8%

CAS Number	Analyte	RL	Result
87-86-5	**Pentachlorophenol**	**6.5**	**63**

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	49.6%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB15-13-15-073010
SAMPLE

Lab Sample ID: RG790
LIMS ID: 10-18519
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/24/10 00:51
Instrument/Analyst: ECD1/AAR

Sample Amount: 8.39 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 16.1%

CAS Number	Analyte	RL	Result
87-86-5	**Pentachlorophenol**	**7.4**	**21**

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	55.2%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB15-17-19-073010
SAMPLE

Lab Sample ID: RG79P
LIMS ID: 10-18520
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/24/10 01:11
Instrument/Analyst: ECD1/AAR

Sample Amount: 8.13 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 19.0%

CAS Number	Analyte	RL	Result
87-86-5	**Pentachlorophenol**	**7.7**	**67**

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	50.8%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB15-17-19-073010-D
SAMPLE

Lab Sample ID: RG79Q
LIMS ID: 10-18521
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/24/10 01:31
Instrument/Analyst: ECD1/AAR

Sample Amount: 8.75 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 12.6%

CAS Number	Analyte	RL	Result
87-86-5	**Pentachlorophenol**	**7.1**	**11**

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	48.0%

ANALYTICAL RESOURCES INCORPORATED

SW8041 CHLOROPHENOLICS SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA

Client ID	TBP	TOT OUT
PSB11-0-0.5-073010	30.1%	0
PSB11-1.5-2-073010	18.8%	0
PSB11-2-4-073010	31.1%	0
PSB11-2-4-073010-D	52.0%	0
MB-081210	53.2%	0
LCS-081210	54.0%	0
PSB11-4-6-073010	67.6%	0
PSB11-4-6-073010 MS	62.0%	0
PSB11-4-6-073010 MSD	97.1%	0
PSB11-11-13-073010	42.8%	0
PSB11-14-16-073010	58.0%	0
PSB15-0-0.5-073010	78.0%	0
PSB15-1.5-2-073010	37.8%	0
PSB15-2-4-073010	27.1%	0
PSB15-4-6-073010	49.6%	0
PSB15-13-15-073010	55.2%	0
PSB15-17-19-073010	50.8%	0
PSB15-17-19-073010-D	48.0%	0

	LCS/MB LIMITS	QC LIMITS
(TBP) = 2,4,6-Tribromophenol	(50-115)	(10-146)

Prep Method: SW3550B
Log Number Range: 10-18505 to 10-18521

FORM-II SW8041

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB11-4-6-073010
MS/MSD

Lab Sample ID: RG79E
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted MS/MSD: 08/12/10

Date Analyzed MS: 08/23/10 21:12
MSD: 08/23/10 21:32
Instrument/Analyst MS: ECD1/AAR
MSD: ECD1/AAR
Percent Moisture: 8.6%

Sample Amount MS: 9.15 g-dry-wt
MSD: 9.21 g-dry-wt
Final Extract Volume MS: 25 mL
MSD: 25 mL
Dilution Factor MS: 1.00
MSD: 5.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Pentachlorophenol	213	270	68.3	83.5%	378	67.9	243%	33.3%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB11-4-6-073010
MATRIX SPIKE

Lab Sample ID: RG79E
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/23/10 21:12
Instrument/Analyst: ECD1/AAR

Sample Amount: 9.15 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 8.6%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.8	---

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	62.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: PSB11-4-6-073010
MATRIX SPIKE DUP

Lab Sample ID: RG79E
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/23/10 21:32
Instrument/Analyst: ECD1/AAR

Sample Amount: 9.21 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 5.00
Percent Moisture: 8.6%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	34	---

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	97.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: LCS-081210
LAB CONTROL

Lab Sample ID: LCS-081210
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/12/10
Date Analyzed: 08/23/10 19:12
Instrument/Analyst: ECD1/AAR

Sample Amount: 10.0 g
Final Extract Volume: 25 mL
Dilution Factor: 1.00

Analyte	Lab Control	Spike Added	Recovery
Pentachlorophenol	38.4	62.5	61.4%

Chlorophenols Surrogate Recovery

2,4,6-Tribromophenol	54.0%

Results reported in µg/kg

4

CHLOROPHENOL METHOD BLANK SUMMARY

SAMPLE NO.

RG79MBS1

Lab Name: ANALYTICAL RESOURCES, INC — Client: FLOYD/SNIDER

ARI Job No.: RG79 — Project: LORA LAKE RI

Lab Sample ID: RG79MBS1 — Lab File ID: 0823A021

Matrix (soil/water) SOLID — Extraction:(SepF/Cont/Sonc) SW3550C

Sulfur Cleanup (Y/N) Y — Date Extracted: 08/12/10

Date Analyzed (1): 08/23/10 — Date Analyzed (2): 08/23/10

Time Analyzed (1): 1852 — Time Analyzed (2): 1852

Instrument ID (1): ECD1 — Instrument ID (2): ECD1

GC Column (1): ZB5 ID: 0.53(mm) — GC Column (2): ZB35 ID: 0.53(mm)

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	RG79LCSS1	RG79LCSS1	08/23/10	08/23/10
02	PSB11-2-4-07	RG79C	08/23/10	08/23/10
03	PSB11-2-4-07	RG79D	08/23/10	08/23/10
04	PSB11-4-6-07	RG79E	08/23/10	08/23/10
05	PSB11-4-6-07	RG79EMS	08/23/10	08/23/10
06	PSB11-4-6-07	RG79EMSD	08/23/10	08/23/10
07	PSB11-11-13-	RG79G	08/23/10	08/23/10
08	PSB11-14-16-	RG79H	08/23/10	08/23/10
09	PSB15-0-0.5-	RG79K	08/23/10	08/23/10
10	PSB15-1.5-2-	RG79L	08/23/10	08/23/10
11	PSB15-2-4-07	RG79M	08/24/10	08/24/10
12	PSB15-4-6-07	RG79N	08/24/10	08/24/10
13	PSB15-13-15-	RG79O	08/24/10	08/24/10
14	PSB15-17-19-	RG79P	08/24/10	08/24/10
15	PSB15-17-19-	RG79Q	08/24/10	08/24/10
16	PSB11-0-0.5-	RG79A	08/24/10	08/24/10
17	PSB11-1.5-2-	RG79B	08/24/10	08/24/10

FORM IV HERB

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041

Sample ID: MB-081210
METHOD BLANK

Lab Sample ID: MB-081210
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized:
Reported: 08/25/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: NA
Date Received: NA

Date Extracted: 08/12/10
Date Analyzed: 08/23/10 18:52
Instrument/Analyst: ECD1/AAR

Sample Amount: 10.0 g
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.2	< 6.2 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	53.2%

6D
CHLOROPHENOL INITIAL CALIBRATION
RETENTION TIME WINDOWS

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG79 Project: LORA LAKE RI

GC Column: ZB5 ID: 0.53 (mm) Instrument ID: ECD1

Calibration Date: 08/09/10

	RT OF STANDARDS					MEAN	RT WINDOW	
COMPOUND	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	RT	FROM	TO
Pentachlorophenol___	11.22	11.22	11.22	11.21	11.21	11.21	11.15	11.29
2,4,6-Trichloropheno	7.26	7.26	7.26	7.26	7.26	7.26	7.19	7.33
2,3,6-Trichloropheno	7.62	7.62	7.62	7.61	7.61	7.62	7.55	7.69
2,4,5-Trichloropheno	8.25	8.24	8.23	8.22	8.21	8.23	8.17	8.31
2,3,4-Trichloropheno	8.81	8.79	8.78	8.77	8.76	8.78	8.72	8.86
2,3,5,6-Tetrachlorop	9.01	9.01	9.00	9.00	8.99	9.00	8.94	9.08
2,3,4,5-Tetrachlorop	10.42	10.41	10.41	10.40	10.39	10.40	10.34	10.48
2,4-Dichlorophenol__	6.90	6.89	6.89	6.89	6.88	6.89	6.82	6.96
2,4,6-Tribromophenol	10.01	10.00	10.00	9.99	9.98	10.00	9.93	10.07

6D
CHLOROPHENOL INITIAL CALIBRATION
RETENTION TIME WINDOWS

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG79 Project: LORA LAKE RI

GC Column: ZB35 ID: 0.53 (mm) Instrument ID: ECD1

Calibration Date: 08/09/10

	RT OF STANDARDS					MEAN	RT WINDOW	
COMPOUND	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	RT	FROM	TO
Pentachlorophenol	11.66	11.65	11.65	11.65	11.65	11.65	11.59	11.73
2,4,6-Trichlorophenol	7.33	7.33	7.33	7.33	7.33	7.33	7.26	7.40
2,3,6-Trichlorophenol	7.86	7.86	7.86	7.86	7.85	7.86	7.79	7.93
2,4,5-Trichlorophenol	8.62	8.61	8.60	8.59	8.59	8.60	8.54	8.69
2,3,4-Trichlorophenol	9.38	9.37	9.36	9.36	9.35	9.36	9.31	9.45
2,3,5,6-Tetrachlorophenol	9.28	9.27	9.27	9.26	9.26	9.27	9.21	9.35
2,3,4,5-Tetrachlorophenol	11.13	11.12	11.11	11.11	11.10	11.11	11.06	11.20
2,4-Dichlorophenol	7.17	7.16	7.16	7.16	7.15	7.16	7.10	7.24
2,4,6-Tribromophenol	10.65	10.64	10.64	10.63	10.63	10.64	10.58	10.72

6E
CHLOROPHENOL INITIAL CALIBRATION
CALIBRATION FACTORS

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG79 Project: LORA LAKE RI

GC Column: ZB5 ID: 0.53 (mm) Instrument ID: ECD1

Calibration Date: 08/09/10

COMPOUND	CALIBRATION FACTORS LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	R^2/ %RSD	CT
Pentachlorophenol	24528	19824	17830	15337	13686	11965	0.9996	Q
2,4,6-Trichlorophenol	13540	10473	9560	8413	7539	6660	0.9997	Q
2,3,6-Trichlorophenol	12902	10500	9607	8801	8025	7161	0.9998	Q
2,4,5-Trichlorophenol	6404	5362	5688	4915	4290	3627	19.7	A
2,3,4-Trichlorophenol	8393	7068	7135	7922	5474	5053	19.4	A
2,3,5,6-Tetrachloroph	17905	15060	14996	14233	11882	10558	18.4	A
2,3,4,5-Tetrachloroph	16324	13459	12294	10216	8895	7628	0.9995	Q
2,4-Dichlorophenol	721	627	611	486	409	342	0.9993	Q
2,4,6-Tribromophenol	18561	14998	13969	12135	11200	9940	0.9997	Q
						AVE RSD	23.3	

CT stands for Curve Types:
- A Indicates an Average Response Factor Curve
- L Indicates a Linear Curve
- Q Indicates a Quadratic Curve

CALIBRATION FILES

LVL 1: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A006.d/0809A006.cdf
LVL 2: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A007.d/0809A007.cdf
LVL 3: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A008.d
LVL 4: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A005.d/0809A005.cdf
LVL 5: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A009.d
LVL 6: /chem2/ecd1.i/FPCP20100809.b/ical-1.b/0809A010.d

6E
CHLOROPHENOL INITIAL CALIBRATION
CALIBRATION FACTORS

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG79 Project: LORA LAKE RI

GC Column: ZB35 ID: 0.53 (mm) Instrument ID: ECD1

Calibration Date: 08/09/10

COMPOUND	CALIBRATION FACTORS LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	R^2/ %RSD	CT
Pentachlorophenol	28790	24995	23903	21206	20507	18368	16.2	A
2,4,6-Trichlorophenol	14811	12542	14020	12241	11222	10070	14.0	A
2,3,6-Trichlorophenol	15358	13183	12610	12054	11138	10108	14.6	A
2,4,5-Trichlorophenol	9451	7724	7152	6203	5568	4896	0.9997	Q
2,3,4-Trichlorophenol	13138	11714	9430	8408	7532	6669	0.9995	Q
2,3,5,6-Tetrachloroph	22710	20100	18581	17733	16666	15298	14.2	A
2,3,4,5-Tetrachloroph	18414	16106	15136	13550	12798	11541	17.0	A
2,4-Dichlorophenol	859	720	733	619	536	458	0.9997	Q
2,4,6-Tribromophenol	22648	19438	18816	17793	17226	16083	12.2	A
						AVE RSD	17.9	

CT stands for Curve Types:
- A Indicates an Average Response Factor Curve
- L Indicates a Linear Curve
- Q Indicates a Quadratic Curve

CALIBRATION FILES

LVL 1: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A006.d/0809A006.cdf
LVL 2: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A007.d/0809A007.cdf
LVL 3: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A008.d
LVL 4: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A005.d
LVL 5: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A009.d
LVL 6: /chem2/ecd1.i/FPCP20100809.b/ical-2.b/0809A010.d

7E

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG79 Project: LORA LAKE RI

GC Column: ZB5 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No.(PCP): Date Analyzed :08/23/10

Lab Sample ID (PCP): PCPCCAL Time Analyzed :1832

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.21	11.15	11.29	23.6	25.0	-5.6
2,4,6-Trichlorophenol	7.26	7.19	7.33	24.1	25.0	-3.6
2,3,6-Trichlorophenol	7.62	7.55	7.69	22.6	25.0	-9.6
2,4,5-Trichlorophenol	8.22	8.17	8.31	23.0	25.0	-8.0
2,3,4-Trichlorophenol	8.77	8.72	8.86	21.2	25.0	-15.2
2,3,5,6-Tetrachlorophenol	9.00	8.94	9.08	22.5	25.0	-10.0
2,3,4,5-Tetrachlorophenol	10.40	10.34	10.48	21.9	25.0	-12.4
2,4-Dichlorophenol	6.89	6.82	6.96	222	250	-11.2
2,4,6-Tribromophenol (surr	9.99	9.93	10.07	22.6	25.0	-9.6

AVERAGE %D = 9.5

FORM VII PCP

7E

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG79 Project: LORA LAKE RI

GC Column: ZB35 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No.(PCP): Date Analyzed :08/23/10

Lab Sample ID (PCP): PCPCCAL Time Analyzed :1832

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.65	11.59	11.73	23.9	25.0	-4.4
2,4,6-Trichlorophenol	7.33	7.26	7.40	23.3	25.0	-6.8
2,3,6-Trichlorophenol	7.86	7.79	7.93	22.3	25.0	-10.8
2,4,5-Trichlorophenol	8.59	8.54	8.69	24.0	25.0	-4.0
2,3,4-Trichlorophenol	9.36	9.31	9.45	22.7	25.0	-9.2
2,3,5,6-Tetrachlorophenol	9.26	9.21	9.35	23.1	25.0	-7.6
2,3,4,5-Tetrachlorophenol	11.11	11.06	11.20	21.9	25.0	-12.4
2,4-Dichlorophenol	7.16	7.10	7.24	229	250	-8.4
2,4,6-Tribromophenol (surr	10.63	10.58	10.72	22.4	25.0	-10.4

AVERAGE %D = 8.2

FORM VII PCP

7E

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG79 Project: LORA LAKE RI

GC Column: ZB5 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No.(PCP): Date Analyzed :08/23/10

Lab Sample ID (PCP): PCPCCAL Time Analyzed :2251

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.22	11.15	11.29	22.1	25.0	-11.6
2,4,6-Trichlorophenol	7.27	7.19	7.33	23.0	25.0	-8.0
2,3,6-Trichlorophenol	7.62	7.55	7.69	22.5	25.0	-10.0
2,4,5-Trichlorophenol	8.22	8.17	8.31	22.2	25.0	-11.2
2,3,4-Trichlorophenol	8.77	8.72	8.86	25.9	25.0	3.6
2,3,5,6-Tetrachlorophenol	9.00	8.94	9.08	24.8	25.0	-0.8
2,3,4,5-Tetrachlorophenol	10.40	10.34	10.48	19.5	25.0	-22.0
2,4-Dichlorophenol	6.89	6.82	6.96	209	250	-16.4
2,4,6-Tribromophenol (surr	9.99	9.93	10.07	22.0	25.0	-12.0

AVERAGE %D = 10.6

FORM VII PCP

7E

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG79 Project: LORA LAKE RI

GC Column: ZB35 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No.(PCP): Date Analyzed :08/23/10

Lab Sample ID (PCP): PCPCCAL Time Analyzed :2251

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.65	11.59	11.73	21.8	25.0	-12.8
2,4,6-Trichlorophenol	7.33	7.26	7.40	23.4	25.0	-6.4
2,3,6-Trichlorophenol	7.86	7.79	7.93	21.9	25.0	-12.4
2,4,5-Trichlorophenol	8.59	8.54	8.69	23.0	25.0	-8.0
2,3,4-Trichlorophenol	9.36	9.31	9.45	22.6	25.0	-9.6
2,3,5,6-Tetrachlorophenol	9.26	9.21	9.35	23.1	25.0	-7.6
2,3,4,5-Tetrachlorophenol	11.11	11.06	11.20	21.1	25.0	-15.6
2,4-Dichlorophenol	7.16	7.10	7.24	230	250	-8.0
2,4,6-Tribromophenol (surr	10.64	10.58	10.72	21.4	25.0	-14.4

AVERAGE %D = 10.5

FORM VII PCP

7E

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG79 Project: LORA LAKE RI

GC Column: ZB5 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No.(PCP): Date Analyzed :08/24/10

Lab Sample ID (PCP): PCPCCAL Time Analyzed :0231

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.22	11.15	11.29	21.4	25.0	-14.4
2,4,6-Trichlorophenol	7.27	7.19	7.33	24.3	25.0	-2.8
2,3,6-Trichlorophenol	7.62	7.55	7.69	23.2	25.0	-7.2
2,4,5-Trichlorophenol	8.22	8.17	8.31	24.1	25.0	-3.6
2,3,4-Trichlorophenol	8.77	8.72	8.86	20.7	25.0	-17.2
2,3,5,6-Tetrachlorophenol	9.00	8.94	9.08	22.5	25.0	-10.0
2,3,4,5-Tetrachlorophenol	10.40	10.34	10.48	22.4	25.0	-10.4
2,4-Dichlorophenol	6.89	6.82	6.96	210	250	-16.0
2,4,6-Tribromophenol (surr	9.99	9.93	10.07	23.3	25.0	-6.8

AVERAGE %D = 9.8

FORM VII PCP

7E

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG79 Project: LORA LAKE RI

GC Column: ZB35 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No.(PCP): Date Analyzed :08/24/10

Lab Sample ID (PCP): PCPCCAL Time Analyzed :0231

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.65	11.59	11.73	22.3	25.0	-10.8
2,4,6-Trichlorophenol	7.33	7.26	7.40	24.5	25.0	-2.0
2,3,6-Trichlorophenol	7.86	7.79	7.93	23.2	25.0	-7.2
2,4,5-Trichlorophenol	8.60	8.54	8.69	24.6	25.0	-1.6
2,3,4-Trichlorophenol	9.36	9.31	9.45	24.0	25.0	-4.0
2,3,5,6-Tetrachlorophenol	9.27	9.21	9.35	24.2	25.0	-3.2
2,3,4,5-Tetrachlorophenol	11.11	11.06	11.20	21.8	25.0	-12.8
2,4-Dichlorophenol	7.16	7.10	7.24	234	250	-6.4
2,4,6-Tribromophenol (surr	10.64	10.58	10.72	23.2	25.0	-7.2

AVERAGE %D = 6.1

FORM VII PCP

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG79 Project: LORA LAKE RI

GC Column: ZB5 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No.(PCP): Date Analyzed :08/24/10

Lab Sample ID (PCP): PCPCCAL Time Analyzed :0350

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.22	11.15	11.29	23.0	25.0	-8.0
2,4,6-Trichlorophenol	7.27	7.19	7.33	24.0	25.0	-4.0
2,3,6-Trichlorophenol	7.62	7.55	7.69	23.0	25.0	-8.0
2,4,5-Trichlorophenol	8.22	8.17	8.31	22.9	25.0	-8.4
2,3,4-Trichlorophenol	8.77	8.72	8.86	21.3	25.0	-14.8
2,3,5,6-Tetrachlorophenol	9.00	8.94	9.08	22.3	25.0	-10.8
2,3,4,5-Tetrachlorophenol	10.40	10.34	10.48	21.8	25.0	-12.8
2,4-Dichlorophenol	6.89	6.82	6.96	212	250	-15.2
2,4,6-Tribromophenol (surr	10.00	9.93	10.07	22.7	25.0	-9.2

AVERAGE %D = 10.1

FORM VII PCP

7E

CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG79 Project: LORA LAKE RI

GC Column: ZB35 ID: 0.53 (mm)

Init. Calib. Date(s): 08/09/10 08/09/10

Client Sample No.(PCP): Date Analyzed :08/24/10

Lab Sample ID (PCP): PCPCCAL Time Analyzed :0350

PCP MIX COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT	NOM AMOUNT	%D
Pentachlorophenol	11.65	11.59	11.73	21.6	25.0	-13.6
2,4,6-Trichlorophenol	7.33	7.26	7.40	24.3	25.0	-2.8
2,3,6-Trichlorophenol	7.86	7.79	7.93	23.0	25.0	-8.0
2,4,5-Trichlorophenol	8.59	8.54	8.69	24.1	25.0	-3.6
2,3,4-Trichlorophenol	9.36	9.31	9.45	22.4	25.0	-10.4
2,3,5,6-Tetrachlorophenol	9.27	9.21	9.35	23.5	25.0	-6.0
2,3,4,5-Tetrachlorophenol	11.11	11.06	11.20	21.2	25.0	-15.2
2,4-Dichlorophenol	7.16	7.10	7.24	233	250	-6.8
2,4,6-Tribromophenol (surr	10.64	10.58	10.72	24.6	25.0	-1.6

AVERAGE %D = 7.6

FORM VII PCP

CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG79 Project: LORA LAKE RI

GC Column: ZB5 ID: 0.53 (mm) Instrument ID: ECD1

Init. Calib. Date(s): 08/09/10 08/09/10

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 10.00

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#
01		PCPD	08/09/10	1223	9.99	
02		PCPA	08/09/10	1243	10.01	
03		PCPB	08/09/10	1303	10.00	
04		PCPC	08/09/10	1323	10.00	
05		PCPE	08/09/10	1343	9.98	
06		PCPF	08/09/10	1403	9.98	
07	ZZZZZ	ZZZZZ	08/09/10	1423	10.00	
08		PCPCCAL	08/23/10	1832	9.99	
09	RG79MBS1	RG79MBS1	08/23/10	1852	10.00	
10	RG79LCSS1	RG79LCSS1	08/23/10	1912	10.00	
11	PSB11-2-4-07	RG79C	08/23/10	2012	9.99	
12	PSB11-2-4-07	RG79D	08/23/10	2032	9.99	
13	PSB11-4-6-07	RG79E	08/23/10	2052	9.99	
14	PSB11-4-6-07	RG79EMS	08/23/10	2112	9.99	
15	PSB11-4-6-07	RG79EMSD	08/23/10	2132	10.00	
16	PSB11-11-13-	RG79G	08/23/10	2152	9.99	
17	ZZZZZ	ZZZZZ	08/23/10	2211	9.99	
18	ZZZZZ	ZZZZZ	08/23/10	2231	9.99	
19		PCPCCAL	08/23/10	2251	9.99	
20	PSB11-14-16-	RG79H	08/23/10	2311	9.99	
21	PSB15-0-0.5-	RG79K	08/23/10	2331	10.00	
22	PSB15-1.5-2-	RG79L	08/23/10	2351	10.00	
23	PSB15-2-4-07	RG79M	08/24/10	0011	10.00	
24	PSB15-4-6-07	RG79N	08/24/10	0031	10.00	
25	PSB15-13-15-	RG79O	08/24/10	0051	9.99	
26	PSB15-17-19-	RG79P	08/24/10	0111	10.00	
27	PSB15-17-19-	RG79Q	08/24/10	0131	10.00	
28	ZZZZZ	ZZZZZ	08/24/10	0151	10.00	
29	ZZZZZ	ZZZZZ	08/24/10	0211	9.99	
30		PCPCCAL	08/24/10	0231	9.99	
31	PSB11-0-0.5-	RG79A	08/24/10	0251	9.99	
32	PSB11-1.5-2-	RG79B	08/24/10	0311	9.99	

QC LIMITS

S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII PCP

CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG79 Project: LORA LAKE RI

GC Column: ZB5 ID: 0.53 (mm) Instrument ID: ECD1

Init. Calib. Date(s): 08/09/10 08/09/10

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 10.00

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#
01	ZZZZZ	ZZZZZ	08/24/10	0331	9.99	
02		PCPCCAL	08/24/10	0350	10.00	

QC LIMITS

S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG79 Project: LORA LAKE RI

GC Column: ZB35 ID: 0.53 (mm) Instrument ID: ECD1

Init. Calib. Date(s): 08/09/10 08/09/10

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 10.65

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#
01		PCPD	08/09/10	1223	10.63	
02		PCPA	08/09/10	1243	10.65	
03		PCPB	08/09/10	1303	10.64	
04		PCPC	08/09/10	1323	10.64	
05		PCPE	08/09/10	1343	10.63	
06		PCPF	08/09/10	1403	10.63	
07	ZZZZZ	ZZZZZ	08/09/10	1423	10.64	
08		PCPCCAL	08/23/10	1832	10.63	
09	RG79MBS1	RG79MBS1	08/23/10	1852	10.64	
10	RG79LCSS1	RG79LCSS1	08/23/10	1912	10.64	
11	PSB11-2-4-07	RG79C	08/23/10	2012	10.63	
12	PSB11-2-4-07	RG79D	08/23/10	2032	10.63	
13	PSB11-4-6-07	RG79E	08/23/10	2052	10.63	
14	PSB11-4-6-07	RG79EMS	08/23/10	2112	10.63	
15	PSB11-4-6-07	RG79EMSD	08/23/10	2132	10.64	
16	PSB11-11-13-	RG79G	08/23/10	2152	10.63	
17	ZZZZZ	ZZZZZ	08/23/10	2211	10.64	
18	ZZZZZ	ZZZZZ	08/23/10	2231	10.63	
19		PCPCCAL	08/23/10	2251	10.64	
20	PSB11-14-16-	RG79H	08/23/10	2311	10.63	
21	PSB15-0-0.5-	RG79K	08/23/10	2331	10.64	
22	PSB15-1.5-2-	RG79L	08/23/10	2351	10.64	
23	PSB15-2-4-07	RG79M	08/24/10	0011	10.64	
24	PSB15-4-6-07	RG79N	08/24/10	0031	10.64	
25	PSB15-13-15-	RG79O	08/24/10	0051	10.64	
26	PSB15-17-19-	RG79P	08/24/10	0111	10.64	
27	PSB15-17-19-	RG79Q	08/24/10	0131	10.64	
28	ZZZZZ	ZZZZZ	08/24/10	0151	10.64	
29	ZZZZZ	ZZZZZ	08/24/10	0211	10.64	
30		PCPCCAL	08/24/10	0231	10.64	
31	PSB11-0-0.5-	RG79A	08/24/10	0251	10.64	
32	PSB11-1.5-2-	RG79B	08/24/10	0311	10.63	

QC LIMITS

S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII PCP

CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

ARI Job No.: RG79 Project: LORA LAKE RI

GC Column: ZB35 ID: 0.53 (mm) Instrument ID: ECD1

Init. Calib. Date(s): 08/09/10 08/09/10

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 10.65

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #
01	ZZZZZ	ZZZZZ	08/24/10	0331	10.64
02		PCPCCAL	08/24/10	0350	10.64

QC LIMITS

S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

TPHD Analysis
Report and Summary QC Forms

ARI Job ID: RG79

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 2
Matrix: Soil

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA

Data Release Authorized:
Reported: 08/13/10

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
RG79A	PSB11-0-0.5-073010	08/11/10	08/12/10	1.00	**Diesel**	**11**	**32**
10-18505	HC ID: **DRO/MOTOR OIL**		FID3B	2.0	**Motor Oil**	**22**	**370**
					o-Terphenyl		87.1%
RG79B	PSB11-1.5-2-073010	08/11/10	08/13/10	1.00	**Diesel**	**110**	**400**
10-18506	HC ID: **DIESEL/MOTOR OIL**		FID3B	20	**Motor Oil**	**220**	**1600**
					o-Terphenyl		102%
RG79C	PSB11-2-4-073010	08/11/10	08/12/10	1.00	**Diesel**	**120**	**440**
10-18507	HC ID: **DRO/MOTOR OIL**		FID3B	20	**Motor Oil**	**240**	**2700**
					o-Terphenyl		83.1%
RG79D	PSB11-2-4-073010-D	08/11/10	08/12/10	1.00	**Diesel**	**58**	**430**
10-18508	HC ID: **DIESEL/MOTOR OIL**		FID3B	10	**Motor Oil**	**120**	**2700**
					o-Terphenyl		77.1%
MB-081110	Method Blank	08/11/10	08/13/10	1.00	Diesel	5.0	< 5.0 U
10-18509	HC ID: ---		FID3B	1.0	Motor Oil	10	< 10 U
					o-Terphenyl		99.1%
RG79E	PSB11-4-6-073010	08/11/10	08/12/10	1.00	**Diesel**	**5.4**	**41**
10-18509	HC ID: **DIESEL/MOTOR OIL**		FID3B	1.0	**Motor Oil**	**11**	**170**
					o-Terphenyl		85.4%
RG79G	PSB11-11-13-073010	08/11/10	08/12/10	1.00	**Diesel**	**56**	**98**
10-18511	HC ID: **DIESEL/MOTOR OIL**		FID3B	10	**Motor Oil**	**110**	**510**
					o-Terphenyl		81.8%
RG79H	PSB11-14-16-073010	08/11/10	08/12/10	1.00	**Diesel**	**58**	**130**
10-18512	HC ID: **DIESEL/MOTOR OIL**		FID3B	10	**Motor Oil**	**120**	**450**
					o-Terphenyl		76.7%
RG79I	PSB11-23-24-073010	08/11/10	08/12/10	1.00	Diesel	5.2	< 5.2 U
10-18513	HC ID: ---		FID3B	1.0	Motor Oil	10	< 10 U
					o-Terphenyl		88.2%
RG79K	PSB15-0-0.5-073010	08/11/10	08/13/10	1.00	**Diesel**	**5.7**	**20**
10-18515	HC ID: **DRO/MOTOR OIL**		FID3B	1.0	**Motor Oil**	**11**	**120**
					o-Terphenyl		82.4%
RG79L	PSB15-1.5-2-073010	08/11/10	08/13/10	1.00	Diesel	5.3	< 5.3 U
10-18516	HC ID: ---		FID3B	1.0	Motor Oil	10	< 10 U
					o-Terphenyl		87.4%
RG79M	PSB15-2-4-073010	08/11/10	08/13/10	1.00	Diesel	5.2	< 5.2 U
10-18517	HC ID: **MOTOR OIL**		FID3B	1.0	**Motor Oil**	**10**	**12**
					o-Terphenyl		87.5%
RG79N	PSB15-4-6-073010	08/11/10	08/13/10	1.00	Diesel	5.1	< 5.1 U
10-18518	HC ID: **MOTOR OIL**		FID3B	1.0	**Motor Oil**	**10**	**17**
					o-Terphenyl		87.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID-Silica and Acid Cleaned
Page 2 of 2
Matrix: Soil

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA

Data Release Authorized:
Reported: 08/13/10

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
RG79O	PSB15-13-15-073010	08/11/10	08/13/10	1.00	**Diesel**	**5.9**	**24**
10-18519	HC ID: **DRO/MOTOR OIL**		FID3B	1.0	**Motor Oil**	**12**	**230**
					o-Terphenyl		89.1%
RG79P	PSB15-17-19-073010	08/11/10	08/13/10	1.00	Diesel	6.2	< 6.2 U
10-18520	HC ID: ---		FID3B	1.0	Motor Oil	12	< 12 U
					o-Terphenyl		95.8%
RG79Q	PSB15-17-19-073010-D	08/11/10	08/13/10	1.00	Diesel	5.7	< 5.7 U
10-18521	HC ID: ---		FID3B	1.0	Motor Oil	11	< 11 U
					o-Terphenyl		90.1%

Reported in mg/kg (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

ANALYTICAL RESOURCES INCORPORATED

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA

Client ID	OTER	TOT OUT
PSB11-0-0.5-073010	87.1%	0
PSB11-1.5-2-073010	102%	0
PSB11-2-4-073010	83.1%	0
PSB11-2-4-073010-D	77.1%	0
MB-081110	99.1%	0
LCS-081110	96.2%	0
PSB11-4-6-073010	85.4%	0
PSB11-4-6-073010 MS	87.1%	0
PSB11-4-6-073010 MSD	87.8%	0
PSB11-11-13-073010	81.8%	0
PSB11-14-16-073010	76.7%	0
PSB11-23-24-073010	88.2%	0
PSB15-0-0.5-073010	82.4%	0
PSB15-1.5-2-073010	87.4%	0
PSB15-2-4-073010	87.5%	0
PSB15-4-6-073010	87.4%	0
PSB15-13-15-073010	89.1%	0
PSB15-17-19-073010	95.8%	0
PSB15-17-19-073010	90.1%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(63-115)	(49-120)

Prep Method: SW3546
Log Number Range: 10-18505 to 10-18521

FORM-II TPHD

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned **Sample ID: PSB11-4-6-073010**
Page 1 of 1 **MS/MSD**

Lab Sample ID: RG79E
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted MS/MSD: 08/11/10

Date Analyzed MS: 08/12/10 22:49
MSD: 08/12/10 23:08
Instrument/Analyst MS: FID/MS
MSD: FID/MS

Sample Amount MS: 9.29 g-dry-wt
MSD: 9.22 g-dry-wt
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 1.0
MSD: 1.0
Percent Moisture: 8.6%

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	41.3	169	161	79.3%	170	163	79.0%	0.6%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	87.1%	87.8%

Results reported in mg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned **Sample ID: LCS-081110**
Page 1 of 1 **LAB CONTROL**

Lab Sample ID: LCS-081110
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Extracted: 08/11/10
Date Analyzed: 08/13/10 03:14
Instrument/Analyst: FID/MS

Sample Amount: 10.0 g
Final Extract Volume: 1.0 mL
Dilution Factor: 1.0

Range	Lab Control	Spike Added	Recovery
Diesel	134	150	89.3%

TPHD Surrogate Recovery

o-Terphenyl	96.2%

Results reported in mg/kg

FORM III

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

ARI Job: RG79
Matrix: Soil Project: Lora Lake RI
Date Received: 07/31/10 POS-LLA

ARI ID	Client ID	Client Amt	Final Vol	Basis	Prep Date
10-18505-RG79A	PSB11-0-0.5-073010	9.09 g	1.00 mL	D	08/11/10
10-18506-RG79B	PSB11-1.5-2-073010	9.24 g	1.00 mL	D	08/11/10
10-18507-RG79C	PSB11-2-4-073010	8.48 g	1.00 mL	D	08/11/10
10-18508-RG79D	PSB11-2-4-073010-D	8.68 g	1.00 mL	D	08/11/10
10-18509-081110MB1	Method Blank	10.0 g	1.00 mL	-	08/11/10
10-18509-081110LCS1	Lab Control	10.0 g	1.00 mL	-	08/11/10
10-18509-RG79E	PSB11-4-6-073010	9.22 g	1.00 mL	D	08/11/10
10-18509-RG79EMS	PSB11-4-6-073010	9.29 g	1.00 mL	D	08/11/10
10-18509-RG79EMSD	PSB11-4-6-073010	9.22 g	1.00 mL	D	08/11/10
10-18511-RG79G	PSB11-11-13-073010	9.00 g	1.00 mL	D	08/11/10
10-18512-RG79H	PSB11-14-16-073010	8.62 g	1.00 mL	D	08/11/10
10-18513-RG79I	PSB11-23-24-073010	9.54 g	1.00 mL	D	08/11/10
10-18515-RG79K	PSB15-0-0.5-073010	8.77 g	1.00 mL	D	08/11/10
10-18516-RG79L	PSB15-1.5-2-073010	9.50 g	1.00 mL	D	08/11/10
10-18517-RG79M	PSB15-2-4-073010	9.60 g	1.00 mL	D	08/11/10
10-18518-RG79N	PSB15-4-6-073010	9.78 g	1.00 mL	D	08/11/10
10-18519-RG79O	PSB15-13-15-073010	8.42 g	1.00 mL	D	08/11/10
10-18520-RG79P	PSB15-17-19-073010	8.12 g	1.00 mL	D	08/11/10
10-18521-RG79Q	PSB15-17-19-073010-	8.84 g	1.00 mL	D	08/11/10

Basis: D=Dry Weight W=As Received

TPH METHOD BLANK SUMMARY

BLANK NO.

RG79MBS1

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG79 Project No.: LORA LAKE APTS.

Date Extracted: 08/11/10 Matrix: SOLID

Date Analyzed : 08/13/10 Instrument ID : FID3B

Time Analyzed : 0333

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	PSB11-23-24-	RG79I	08/12/10
02	PSB11-2-4-07	RG79C	08/12/10
03	PSB11-2-4-07	RG79D	08/12/10
04	PSB11-0-0.5-	RG79A	08/12/10
05	PSB11-4-6-07	RG79E	08/12/10
06	PSB11-4-6-07	RG79EMS	08/12/10
07	PSB11-4-6-07	RG79EMSD	08/12/10
08	PSB11-11-13-	RG79G	08/12/10
09	PSB11-14-16-	RG79H	08/12/10
10	PSB11-1.5-2-	RG79B	08/13/10
11	PSB15-0-0.5-	RG79K	08/13/10
12	PSB15-1.5-2-	RG79L	08/13/10
13	PSB15-2-4-07	RG79M	08/13/10
14	PSB15-4-6-07	RG79N	08/13/10
15	PSB15-17-19-	RG79P	08/13/10
16	PSB15-17-19-	RG79Q	08/13/10
17	RG79LCSS1	RG79LCSS1	08/13/10
18	PSB15-13-15-	RG79O	08/13/10
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

FORM IV TPH

6a

NW DIESEL INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

Instrument: FID3B.I Project: LORA LAKE APTS.

Calibration Date: 30-JUL-2010 SDG No.: RG79

Diesel Range	RF1 50	RF2 100	RF3 250	RF4 500	RF5 1000	RF6 2500	Ave RF	%RSD
WA Diesel	22218	21170	21958	21565	21008	20465	21398	3.0
AK Diesel	25279	23959	24625	24161	23624	22975	24104	3.3
OR Diesel	25497	24108	24785	24317	23782	23134	24271	3.4
o-Terph	19592	19395	20002	19771	20130	20713	19934	2.3

<- Indicates %RSD outside limits
Surrogate areas are not included in Diesel RF calculation.

Quant Ranges : WA Diesel C12-C24 (3.468-5.603)
AK Diesel C10-C25 (2.858-5.764)
OR Diesel C10-C28 (2.858-6.244)

Calibration Files	Analysis Time
0730b018.d	30-JUL-2010 20:23
0730b019.d	30-JUL-2010 20:42
0730b020.d	30-JUL-2010 21:01
0730b021.d	30-JUL-2010 21:20
0730b022.d	30-JUL-2010 21:39
0730b023.d	30-JUL-2010 21:58

NW MOTOR OIL RANGE INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

Instrument: FID3B.I Project: LORA LAKE APTS.

Calibration Date: 31-JUL-2010 SDG No.: RG79

Product Range	RF1 100	RF2 250	RF3 500	RF4 1000	RF5 2500	RF6 5000	Ave RF	%RSD
WA M.Oil C24-C38	12620	11767	11795	11887	11681	12739	12081	3.9
Triac Surr	14850	15844	16922	17487	16823	18431	16726	7.5

<- Indicates %RSD outside limits
Surrogate areas are not included in Motor Oil RF calculation.

Calibration Files	Analysis Time
0730b025.d	30-JUL-2010 22:36
0730b026.d	30-JUL-2010 22:55
0730b027.d	30-JUL-2010 23:14
0730b028.d	30-JUL-2010 23:32
0730b030.d	31-JUL-2010 00:10
0730b032.d	31-JUL-2010 00:47

7a

DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.
Client: FLOYD/SNIDER

ICal Date: 30-JUL-2010
Project: LORA LAKE APTS.

CCal Date: 12-AUG-2010
SDG No.: RG79

Analysis Time: 17:39
Lab ID: DIESEL#2

Instrument: FID3B.I
Lab File Name: 0812b016.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies(C12-C24)	5270925	246.3	250	-1.5
AK102 (C10-C25)	5897909	244.7	250	-2.1
Terphenyl	875844	43.9	45	-2.4

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
AK Diesel C10-C25

7a

MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 30-JUL-2010 Project: LORA LAKE APTS.

CCal Date: 12-AUG-2010 SDG No.: RG79

Analysis Time: 17:59 Lab ID: MOIL#2

Instrument: FID3B.I Lab File Name: 0812b017.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D
WAMoil(C24-C38)	5530111	457.7	500	-8.5
AK103 (C25-C36)	4871526	545.4	500	9.1
n-Triacontane	763915	45.7	45	1.5

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36

7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 30-JUL-2010 Project: LORA LAKE APTS.

CCal Date: 12-AUG-2010 SDG No.: RG79

Analysis Time: 21:32 Lab ID: DIESEL#3

Instrument: FID3B.I Lab File Name: 0812b028.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies(C12-C24)	5234714	244.6	250	-2.1
AK102 (C10-C25)	5862598	243.2	250	-2.7
Terphenyl	887235	44.5	45	-1.1

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
AK Diesel C10-C25

7a

MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.
Client: FLOYD/SNIDER

ICal Date: 30-JUL-2010
Project: LORA LAKE APTS.

CCal Date: 12-AUG-2010
SDG No.: RG79

Analysis Time: 21:51
Lab ID: MOIL#3

Instrument: FID3B.I
Lab File Name: 0812b029.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D
WAMoil(C24-C38)	5513187	456.3	500	-8.7
AK103 (C25-C36)	4911932	549.9	500	10.0
n-Triacontane	778735	46.6	45	3.5

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36

7a

DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 30-JUL-2010 Project: LORA LAKE APTS.

CCal Date: 13-AUG-2010 SDG No.: RG79

Analysis Time: 00:42 Lab ID: DIESEL#4

Instrument: FID3B.I Lab File Name: 0812b038.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies(C12-C24)	5361453	250.6	250	0.2
AK102 (C10-C25)	6008562	249.3	250	-0.3
Terphenyl	908813	45.6	45	1.3

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
AK Diesel C10-C25

7a

MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 30-JUL-2010 Project: LORA LAKE APTS.

CCal Date: 13-AUG-2010 SDG No.: RG79

Analysis Time: 01:01 Lab ID: MOIL#4

Instrument: FID3B.I Lab File Name: 0812b039.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D
WAMoil(C24-C38)	5625764	465.7	500	-6.9
AK103 (C25-C36)	4982941	557.8	500	11.6
n-Triacontane	785304	47.0	45	4.3

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36

7a

DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 30-JUL-2010 Project: LORA LAKE APTS.

CCal Date: 13-AUG-2010 SDG No.: RG79

Analysis Time: 03:52 Lab ID: DIESEL#5

Instrument: FID3B.I Lab File Name: 0812b048.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies(C12-C24)	5418177	253.2	250	1.3
AK102 (C10-C25)	6078635	252.2	250	0.9
Terphenyl	906534	45.5	45	1.1

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
AK Diesel C10-C25

7a

MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 30-JUL-2010 Project: LORA LAKE APTS.

CCal Date: 13-AUG-2010 SDG No.: RG79

Analysis Time: 04:11 Lab ID: MOIL#5

Instrument: FID3B.I Lab File Name: 0812b049.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D
WAMoil(C24-C38)	5633796	466.3	500	-6.7
AK103 (C25-C36)	4986078	558.2	500	11.6
n-Triacontane	786849	47.0	45	4.5

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36

7a

DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 30-JUL-2010 Project: LORA LAKE APTS.

CCal Date: 13-AUG-2010 SDG No.: RG79

Analysis Time: 05:27 Lab ID: DIESEL#6

Instrument: FID3B.I Lab File Name: 0812b053.d

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies(C12-C24)	5342151	249.7	250	-0.1
AK102 (C10-C25)	6002153	249.0	250	-0.4
Terphenyl	897950	45.0	45	0.1

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
AK Diesel C10-C25

7a

MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 30-JUL-2010 Project: LORA LAKE APTS.

CCal Date: 13-AUG-2010 SDG No.: RG79

Analysis Time: 05:46 Lab ID: MOIL#6

Instrument: FID3B.I Lab File Name: 0812b054.d

M.oil Range	Area*	CalcAmnt	NomAmnt	% D
WAMoil(C24-C38)	5681583	470.3	500	-5.9
AK103 (C25-C36)	5030526	563.2	500	12.6
n-Triacontane	804367	48.1	45	6.9

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
AK M.Oil C25-C36

TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG79 Project: LORA LAKE APTS.

Instrument ID: FID3B GC Column: RTX-1

Run Date: 07/31/10

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD
TERPH: 4.76 TRIAC: 6.56

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
01		RT	07/30/10	1944	4.76	6.56
02		IB	07/30/10	2004	4.76	6.56
03		DIESEL 50	07/30/10	2023	4.76	6.56
04		DIESEL 100	07/30/10	2042	4.76	6.56
05		DIESEL 250	07/30/10	2101	4.76	6.55
06		DIESEL 500	07/30/10	2120	4.77	6.56
07		DIESEL 1000	07/30/10	2139	4.77	6.56
08		DIESEL 2500	07/30/10	2158	4.79	6.56
09		DIESEL ICV	07/30/10	2217	4.76	6.56
10		MOIL 100	07/30/10	2236	4.77	6.56
11		MOIL 250	07/30/10	2255	4.76	6.56
12		MOIL 500	07/30/10	2314	4.76	6.56
13		MOIL 1000	07/30/10	2332	4.76	6.57
14		RINSE	07/30/10	2351	4.76	6.56
15		MOIL 2500	07/31/10	0010	4.76	6.58
16		RINSE	07/31/10	0028	4.76	6.56
17		MOIL 5000	07/31/10	0047	4.76	6.60
18		RINSE	07/31/10	0106	4.76	6.56
19		MOIL ICV	07/31/10	0125	4.76	6.56

QC LIMITS

TERPH = o-terph (+/- 0.05 MINUTES)
TRIAC = Triacon Surr (+/- 0.05 MINUTES)

* Values outside of QC limits.

FORM VIII TPH

TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG79 Project: LORA LAKE APTS.

Instrument ID: FID3B GC Column: RTX-1

Run Date: 08/12/10

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD
TERPH: 4.76 TRIAC: 6.56

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
01	RT	RT	08/12/10	1305	4.76	6.56
02	IB	IB	08/12/10	1324	4.76	6.56
03	DIESEL#2	DIESEL#2	08/12/10	1739	4.76	6.56
04	MOIL#2	MOIL#2	08/12/10	1759	4.76	6.56
05	PSB11-23-24-	RG79I	08/12/10	1818	4.76	6.56
06	ZZZZZ	ZZZZZ	08/12/10	1838	4.77	6.56
07	PSB11-2-4-07	RG79C	08/12/10	1857	4.76	
08	PSB11-2-4-07	RG79D	08/12/10	1917	4.76	
09	ZZZZZ	ZZZZZ	08/12/10	1936	4.76	6.56
10	ZZZZZ	ZZZZZ	08/12/10	1956	4.76	6.55
11	ZZZZZ	ZZZZZ	08/12/10	2015	4.76	6.55
12	ZZZZZ	ZZZZZ	08/12/10	2035	4.76	6.56
13	ZZZZZ	ZZZZZ	08/12/10	2054	4.76	6.56
14	ZZZZZ	ZZZZZ	08/12/10	2113	4.76	6.56
15	DIESEL#3	DIESEL#3	08/12/10	2132	4.76	6.56
16	MOIL#3	MOIL#3	08/12/10	2151	4.76	6.56
17	PSB11-0-0.5-	RG79A	08/12/10	2210	4.76	6.56
18	PSB11-4-6-07	RG79E	08/12/10	2230	4.76	6.56
19	PSB11-4-6-07	RG79EMS	08/12/10	2249	4.76	6.56
20	PSB11-4-6-07	RG79EMSD	08/12/10	2308	4.76	6.56
21	PSB11-11-13-	RG79G	08/12/10	2326	4.76	6.55
22	PSB11-14-16-	RG79H	08/12/10	2345	4.76	6.55
23	ZZZZZ	ZZZZZ	08/13/10	0004	4.76	6.55
24	PSB11-1.5-2-	RG79B	08/13/10	0023	4.76	
25	DIESEL#4	DIESEL#4	08/13/10	0042	4.76	6.55
26	MOIL#4	MOIL#4	08/13/10	0101	4.76	6.56
27	PSB15-0-0.5-	RG79K	08/13/10	0120	4.76	6.56
28	PSB15-1.5-2-	RG79L	08/13/10	0139	4.76	6.56
29	PSB15-2-4-07	RG79M	08/13/10	0158	4.76	6.56
30	PSB15-4-6-07	RG79N	08/13/10	0217	4.76	6.56
31	PSB15-17-19-	RG79P	08/13/10	0236	4.76	6.56
32	PSB15-17-19-	RG79Q	08/13/10	0255	4.76	6.56

QC LIMITS

TERPH = o-terph (+/- 0.05 MINUTES)
TRIAC = Triacon Surr (+/- 0.05 MINUTES)

* Values outside of QC limits.

FORM VIII TPH

TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG79 Project: LORA LAKE APTS.

Instrument ID: FID3B GC Column: RTX-1

Run Date: 08/12/10

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

SURROGATE RT FROM DAILY STANDARD
TERPH: 4.76 TRIAC: 6.56

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
01	RG79LCSS1	RG79LCSS1	08/13/10	0314	4.76	6.56
02	RG79MBS1	RG79MBS1	08/13/10	0333	4.76	6.56
03	DIESEL#5	DIESEL#5	08/13/10	0352	4.76	6.56
04	MOIL#5	MOIL#5	08/13/10	0411	4.76	6.56
05	ZZZZZ	ZZZZZ	08/13/10	0430	4.76	6.56
06	ZZZZZ	ZZZZZ	08/13/10	0449	4.76	6.55
07	PSB15-13-15-	RG79O	08/13/10	0508	4.76	6.56
08	DIESEL#6	DIESEL#6	08/13/10	0527	4.76	6.55
09	MOIL#6	MOIL#6	08/13/10	0546	4.76	6.56

QC LIMITS

TERPH = o-terph (+/- 0.05 MINUTES)
TRIAC = Triacon Surr (+/- 0.05 MINUTES)

* Values outside of QC limits.

TPHG/BETX Analysis
Report and Summary QC Forms

ARI Job ID: RG79

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB11-0-0.5-073010
SAMPLE

Lab Sample ID: RG79A
LIMS ID: 10-18505
Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/05/10 11:46
Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
Sample Amount: 150 mg-dry-wt
Percent Moisture: 9.6%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	8.2	< 8.2 U
108-88-3	Toluene	8.2	< 8.2 U
100-41-4	Ethylbenzene	8.2	< 8.2 U
179601-23-1	m,p-Xylene	16	< 16 U
95-47-6	o-Xylene	8.2	< 8.2 U

			GAS ID
	Gasoline Range Hydrocarbons	3.3	< 3.3 U ---

BETX Surrogate Recovery

Trifluorotoluene	89.6%
Bromobenzene	89.4%

Gasoline Surrogate Recovery

Trifluorotoluene	89.9%
Bromobenzene	90.0%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB11-1.5-2-073010
SAMPLE

Lab Sample ID: RG79B
LIMS ID: 10-18506
Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/05/10 12:12
Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
Sample Amount: 140 mg-dry-wt
Percent Moisture: 8.6%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	8.9	< 8.9 U	
108-88-3	Toluene	8.9	< 8.9 U	
100-41-4	Ethylbenzene	8.9	< 8.9 U	
179601-23-1	m,p-Xylene	18	< 18 U	
95-47-6	o-Xylene	8.9	< 8.9 U	
	Gasoline Range Hydrocarbons	**3.6**	**150**	GAS ID **GRO**

BETX Surrogate Recovery

Trifluorotoluene	95.5%
Bromobenzene	101%

Gasoline Surrogate Recovery

Trifluorotoluene	94.2%
Bromobenzene	94.3%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB11-2-4-073010
SAMPLE

Lab Sample ID: RG79C
LIMS ID: 10-18507
Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/05/10 12:38
Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
Sample Amount: 130 mg-dry-wt
Percent Moisture: 15.3%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	9.6	< 9.6 U
108-88-3	Toluene	9.6	< 9.6 U
100-41-4	Ethylbenzene	9.6	< 9.6 U
179601-23-1	m,p-Xylene	19	< 19 U
95-47-6	o-Xylene	9.6	< 9.6 U

			GAS ID
Gasoline Range Hydrocarbons	**3.8**	**10**	**GRO**

BETX Surrogate Recovery

Trifluorotoluene	92.4%
Bromobenzene	92.3%

Gasoline Surrogate Recovery

Trifluorotoluene	92.6%
Bromobenzene	95.9%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB11-2-4-073010-D
SAMPLE

Lab Sample ID: RG79D
LIMS ID: 10-18508
Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/05/10 13:04
Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
Sample Amount: 130 mg-dry-wt
Percent Moisture: 14.1%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	9.4	< 9.4 U
108-88-3	Toluene	9.4	< 9.4 U
100-41-4	Ethylbenzene	9.4	< 9.4 U
179601-23-1	m,p-Xylene	19	< 19 U
95-47-6	o-Xylene	9.4	< 9.4 U

			GAS ID
Gasoline Range Hydrocarbons	**3.8**	**17**	**GRO**

BETX Surrogate Recovery

Trifluorotoluene	95.3%
Bromobenzene	95.6%

Gasoline Surrogate Recovery

Trifluorotoluene	95.1%
Bromobenzene	100%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB11-4-6-073010
SAMPLE

Lab Sample ID: RG79E
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/05/10 14:48
Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
Sample Amount: 140 mg-dry-wt
Percent Moisture: 8.6%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	8.9	< 8.9 U	
108-88-3	Toluene	8.9	< 8.9 U	
100-41-4	Ethylbenzene	8.9	< 8.9 U	
179601-23-1	m,p-Xylene	18	< 18 U	
95-47-6	o-Xylene	8.9	< 8.9 U	
	Gasoline Range Hydrocarbons	**3.6**	**8.2**	GAS ID **GRO**

BETX Surrogate Recovery

Trifluorotoluene	90.0%
Bromobenzene	92.2%

Gasoline Surrogate Recovery

Trifluorotoluene	89.8%
Bromobenzene	93.8%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB11-11-13-073010
SAMPLE

Lab Sample ID: RG79G
LIMS ID: 10-18511
Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/05/10 16:06
Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
Sample Amount: 140 mg-dry-wt
Percent Moisture: 11.6%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	8.6	< 8.6 U	
108-88-3	Toluene	8.6	< 8.6 U	
100-41-4	Ethylbenzene	8.6	< 8.6 U	
179601-23-1	m,p-Xylene	17	< 17 U	
95-47-6	o-Xylene	8.6	< 8.6 U	
	Gasoline Range Hydrocarbons	3.5	< 3.5 U	---

BETX Surrogate Recovery

Trifluorotoluene	95.6%
Bromobenzene	95.6%

Gasoline Surrogate Recovery

Trifluorotoluene	95.7%
Bromobenzene	96.1%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB11-14-16-073010
SAMPLE

Lab Sample ID: RG79H
LIMS ID: 10-18512
Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/05/10 16:32
Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
Sample Amount: 140 mg-dry-wt
Percent Moisture: 16.5%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	9.3	< 9.3 U
108-88-3	Toluene	9.3	< 9.3 U
100-41-4	Ethylbenzene	9.3	< 9.3 U
179601-23-1	m,p-Xylene	18	< 18 U
95-47-6	o-Xylene	9.3	< 9.3 U

			GAS ID
Gasoline Range Hydrocarbons	**3.7**	**26**	**GRO**

BETX Surrogate Recovery

Trifluorotoluene	94.9%
Bromobenzene	96.5%

Gasoline Surrogate Recovery

Trifluorotoluene	96.3%
Bromobenzene	103%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG

Sample ID: PSB15-0-0.5-073010
SAMPLE

Lab Sample ID: RG79K
LIMS ID: 10-18515
Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/05/10 16:58
Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
Sample Amount: 130 mg-dry-wt
Percent Moisture: 13.3%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	9.9	< 9.9 U
108-88-3	Toluene	9.9	< 9.9 U
100-41-4	Ethylbenzene	9.9	< 9.9 U
179601-23-1	m,p-Xylene	20	< 20 U
95-47-6	o-Xylene	9.9	< 9.9 U

			GAS ID
	Gasoline Range Hydrocarbons	4.0	< 4.0 U ---

BETX Surrogate Recovery

Trifluorotoluene	94.0%
Bromobenzene	94.4%

Gasoline Surrogate Recovery

Trifluorotoluene	95.0%
Bromobenzene	94.6%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB15-1.5-2-073010
SAMPLE

Lab Sample ID: RG79L
LIMS ID: 10-18516
Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/05/10 17:24
Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
Sample Amount: 140 mg-dry-wt
Percent Moisture: 6.8%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	8.7	< 8.7 U	
108-88-3	Toluene	8.7	< 8.7 U	
100-41-4	Ethylbenzene	8.7	< 8.7 U	
179601-23-1	m,p-Xylene	18	< 18 U	
95-47-6	o-Xylene	8.7	< 8.7 U	
	Gasoline Range Hydrocarbons	3.5	< 3.5 U	---

BETX Surrogate Recovery

Trifluorotoluene	94.4%
Bromobenzene	94.4%

Gasoline Surrogate Recovery

Trifluorotoluene	94.9%
Bromobenzene	95.4%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB15-2-4-073010
SAMPLE

Lab Sample ID: RG79M
LIMS ID: 10-18517
Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/05/10 17:50
Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
Sample Amount: 160 mg-dry-wt
Percent Moisture: 4.8%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	7.7	< 7.7 U	
108-88-3	Toluene	7.7	< 7.7 U	
100-41-4	Ethylbenzene	7.7	< 7.7 U	
179601-23-1	m,p-Xylene	15	< 15 U	
95-47-6	o-Xylene	7.7	< 7.7 U	
	Gasoline Range Hydrocarbons	**3.1**	**5.5**	GAS ID **GRO**

BETX Surrogate Recovery

Trifluorotoluene	95.8%
Bromobenzene	93.7%

Gasoline Surrogate Recovery

Trifluorotoluene	95.8%
Bromobenzene	95.2%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB15-4-6-073010
SAMPLE

Lab Sample ID: RG79N
LIMS ID: 10-18518
Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/05/10 18:16
Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
Sample Amount: 160 mg-dry-wt
Percent Moisture: 4.8%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	8.0	< 8.0 U	
108-88-3	Toluene	8.0	< 8.0 U	
100-41-4	Ethylbenzene	8.0	< 8.0 U	
179601-23-1	m,p-Xylene	16	< 16 U	
95-47-6	o-Xylene	8.0	< 8.0 U	
	Gasoline Range Hydrocarbons	3.2	< 3.2 U	---

BETX Surrogate Recovery

Trifluorotoluene	92.7%
Bromobenzene	95.3%

Gasoline Surrogate Recovery

Trifluorotoluene	94.2%
Bromobenzene	95.0%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB15-13-15-073010
SAMPLE

Lab Sample ID: RG790
LIMS ID: 10-18519
Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/05/10 20:00
Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
Sample Amount: 130 mg-dry-wt
Percent Moisture: 16.1%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	9.7	< 9.7 U	
108-88-3	Toluene	9.7	< 9.7 U	
100-41-4	Ethylbenzene	9.7	< 9.7 U	
179601-23-1	m,p-Xylene	19	< 19 U	
95-47-6	o-Xylene	9.7	< 9.7 U	
	Gasoline Range Hydrocarbons	3.9	< 3.9 U	---

BETX Surrogate Recovery

Trifluorotoluene	92.0%
Bromobenzene	95.2%

Gasoline Surrogate Recovery

Trifluorotoluene	91.4%
Bromobenzene	95.6%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB15-17-19-073010
SAMPLE

Lab Sample ID: RG79P
LIMS ID: 10-18520
Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/05/10 20:26
Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
Sample Amount: 130 mg-dry-wt
Percent Moisture: 19.0%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	9.7	< 9.7 U	
108-88-3	Toluene	9.7	< 9.7 U	
100-41-4	Ethylbenzene	9.7	< 9.7 U	
179601-23-1	m,p-Xylene	19	< 19 U	
95-47-6	o-Xylene	9.7	< 9.7 U	
	Gasoline Range Hydrocarbons	3.9	< 3.9 U	GAS ID ---

BETX Surrogate Recovery

Trifluorotoluene	94.8%
Bromobenzene	97.4%

Gasoline Surrogate Recovery

Trifluorotoluene	92.4%
Bromobenzene	96.9%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB15-17-19-073010-D
SAMPLE

Lab Sample ID: RG79Q
LIMS ID: 10-18521
Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/05/10 20:52
Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
Sample Amount: 140 mg-dry-wt
Percent Moisture: 12.6%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	8.6	< 8.6 U
108-88-3	Toluene	8.6	< 8.6 U
100-41-4	Ethylbenzene	8.6	< 8.6 U
179601-23-1	m,p-Xylene	17	< 17 U
95-47-6	o-Xylene	8.6	< 8.6 U

			GAS ID
	Gasoline Range Hydrocarbons	3.4	< 3.4 U ---

BETX Surrogate Recovery

Trifluorotoluene	92.9%
Bromobenzene	97.3%

Gasoline Surrogate Recovery

Trifluorotoluene	92.9%
Bromobenzene	97.1%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

TPHG SOIL SURROGATE RECOVERY SUMMARY

ARI Job: RG79
Matrix: Soil

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA

Client ID	BFB	TFT	BBZ	TOT OUT
MB-080510	NA	89.0%	89.9%	0
LCS-080510	NA	97.6%	97.1%	0
LCSD-080510	NA	95.9%	94.3%	0
PSB11-0-0.5-073010	NA	89.9%	90.0%	0
PSB11-1.5-2-073010	NA	94.2%	94.3%	0
PSB11-2-4-073010	NA	92.6%	95.9%	0
PSB11-2-4-073010-D	NA	95.1%	100%	0
PSB11-4-6-073010	NA	89.8%	93.8%	0
PSB11-4-6-073010 MS	NA	94.9%	99.8%	0
PSB11-4-6-073010 MSD	NA	100%	103%	0
PSB11-11-13-073010	NA	95.7%	96.1%	0
PSB11-14-16-073010	NA	96.3%	103%	0
PSB15-0-0.5-073010	NA	95.0%	94.6%	0
PSB15-1.5-2-073010	NA	94.9%	95.4%	0
PSB15-2-4-073010	NA	95.8%	95.2%	0
PSB15-4-6-073010	NA	94.2%	95.0%	0
PSB15-13-15-073010	NA	91.4%	95.6%	0
PSB15-17-19-073010	NA	92.4%	96.9%	0
PSB15-17-19-073010-D	NA	92.9%	97.1%	0

	LCS/MB LIMITS	QC LIMITS
(BFB) = Bromofluorobenzene	(70-130)	(70-130)
(TFT) = Trifluorotoluene	(80-120)	(66-123)
(BBZ) = Bromobenzene	(80-120)	(62-130)

Log Number Range: 10-18505 to 10-18521

ANALYTICAL RESOURCES INCORPORATED

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: RG79
Matrix: Soil

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA

Client ID	TFT	BBZ	TOT OUT
MB-080510	88.4%	89.0%	0
LCS-080510	93.7%	94.2%	0
LCSD-080510	93.0%	92.9%	0
PSB11-0-0.5-073010	89.6%	89.4%	0
PSB11-1.5-2-073010	95.5%	101%	0
PSB11-2-4-073010	92.4%	92.3%	0
PSB11-2-4-073010-D	95.3%	95.6%	0
PSB11-4-6-073010	90.0%	92.2%	0
PSB11-4-6-073010 MS	92.8%	97.0%	0
PSB11-4-6-073010 MSD	97.0%	98.6%	0
PSB11-11-13-073010	95.6%	95.6%	0
PSB11-14-16-073010	94.9%	96.5%	0
PSB15-0-0.5-073010	94.0%	94.4%	0
PSB15-1.5-2-073010	94.4%	94.4%	0
PSB15-2-4-073010	95.8%	93.7%	0
PSB15-4-6-073010	92.7%	95.3%	0
PSB15-13-15-073010	92.0%	95.2%	0
PSB15-17-19-073010	94.8%	97.4%	0
PSB15-17-19-073010-D	92.9%	97.3%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-120)	(68-124)
(BBZ) = Bromobenzene	(77-120)	(62-134)

Log Number Range: 10-18505 to 10-18521

FORM II BETX

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB11-TB
SAMPLE

Lab Sample ID: RG79J
LIMS ID: 10-18514
Matrix: Water
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/05/10 10:54
Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

			GAS ID
Gasoline Range Hydrocarbons	0.25	< 0.25 U	---

BETX Surrogate Recovery

Trifluorotoluene	101%
Bromobenzene	97.3%

Gasoline Surrogate Recovery

Trifluorotoluene	97.6%
Bromobenzene	96.1%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PB15-TB
SAMPLE

Lab Sample ID: RG79S
LIMS ID: 10-18523
Matrix: Water
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed: 08/05/10 11:20
Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

			GAS ID
Gasoline Range Hydrocarbons	0.25	< 0.25 U	---

BETX Surrogate Recovery

Trifluorotoluene	93.5%
Bromobenzene	90.7%

Gasoline Surrogate Recovery

Trifluorotoluene	91.5%
Bromobenzene	90.8%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ANALYTICAL RESOURCES INCORPORATED

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: RG79
Matrix: Water

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA

Client ID	TFT	BBZ	TOT OUT
PSB11-TB	97.6%	96.1%	0
PB15-TB	91.5%	90.8%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-120)	(80-120)
(BBZ) = Bromobenzene	(80-120)	(80-120)

Log Number Range: 10-18514 to 10-18523

RG79:001194

ANALYTICAL RESOURCES INCORPORATED

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: RG79
Matrix: Water

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA

Client ID	TFT	BBZ	TOT OUT
PSB11-TB	101%	97.3%	0
PB15-TB	93.5%	90.7%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(79-120)	(80-120)
(BBZ) = Bromobenzene	(79-120)	(80-120)

Log Number Range: 10-18514 to 10-18523

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: PSB11-4-6-073010
MATRIX SPIKE

Lab Sample ID: RG79E
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed MS: 08/05/10 15:14
MSD: 08/05/10 15:40
Instrument/Analyst MS: PID2/MH
MSD: PID2/MH

Purge Volume: 5.0 mL

Sample Amount MS: 140 mg-dry-wt
MSD: 140 mg-dry-wt

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Gasoline Range Hydrocarbons	8.15	43.7	35.7	99.6%	42.8	35.7	97.1%	2.1%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	MS	MSD
Trifluorotoluene	94.9%	100%
Bromobenzene	99.8%	103%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
Page 1 of 1

Sample ID: PSB11-4-6-073010
MATRIX SPIKE

Lab Sample ID: RG79E
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Date Analyzed MS: 08/05/10 15:14
MSD: 08/05/10 15:40
Instrument/Analyst MS: PID2/MH
MSD: PID2/MH

Purge Volume: 5.0 mL

Sample Amount MS: 140 mg-dry-wt
MSD: 140 mg-dry-wt

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Benzene	< 8.94 U	59.3	75.0	79.1%	57.2	75.0	76.3%	3.6%
Toluene	< 8.94 U	960	1020	94.1%	942	1020	92.4%	1.9%
Ethylbenzene	< 8.94 U	297	329	90.3%	296	329	90.0%	0.3%
m,p-Xylene	< 17.9 U	1110	1210	91.7%	1110	1210	91.7%	0.0%
o-Xylene	< 8.94 U	465	500	93.0%	450	500	90.0%	3.3%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	MS	MSD
Trifluorotoluene	92.8%	97.0%
Bromobenzene	97.0%	98.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: LCS-080510
LAB CONTROL SAMPLE

Lab Sample ID: LCS-080510
LIMS ID: 10-18505
Matrix: Soil
Data Release Authorized:
Reported: 08/12/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/05/10 09:09
LCSD: 08/05/10 09:35
Instrument/Analyst LCS: PID2/MH
LCSD: PID2/MH

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	50.6	50.0	101%	48.6	50.0	97.2%	4.0%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	97.6%	95.9%
Bromobenzene	97.1%	94.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
Page 1 of 1

Sample ID: LCS-080510
LAB CONTROL SAMPLE

Lab Sample ID: LCS-080510
LIMS ID: 10-18505
Matrix: Soil
Data Release Authorized:
Reported: 08/12/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/05/10 09:09
LCSD: 08/05/10 09:35
Instrument/Analyst LCS: PID2/MH
LCSD: PID2/MH

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	95.5	105	91.0%	81.0	105	77.1%	16.4%
Toluene	1320	1440	91.7%	1330	1440	92.4%	0.8%
Ethylbenzene	416	460	90.4%	411	460	89.3%	1.2%
m,p-Xylene	1590	1690	94.1%	1560	1690	92.3%	1.9%
o-Xylene	664	700	94.9%	646	700	92.3%	2.7%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	93.7%	93.0%
Bromobenzene	94.2%	92.9%

BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB0805S1

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG79 Project No.: LORA LAKE

Date Analyzed : 08/05/10 Matrix: SOIL

Time Analyzed : 1001 Instrument ID : PID2

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	LCS0805S1	LCS0805	08/05/10
02	LCSD0805S1	LCSD0805	08/05/10
03	PSB11-TB	RG79J	08/05/10
04	PB15-TB	RG79S	08/05/10
05	PSB11-0-0.5-	RG79A	08/05/10
06	PSB11-1.5-2-	RG79B	08/05/10
07	PSB11-2-4-07	RG79C	08/05/10
08	PSB11-2-4-07	RG79D	08/05/10
09	PSB11-4-6-07	RG79E	08/05/10
10	PSB11-4-6-07	RG79EMS	08/05/10
11	PSB11-4-6-07	RG79EMSD	08/05/10
12	PSB11-11-13-	RG79G	08/05/10
13	PSB11-14-16-	RG79H	08/05/10
14	PSB15-0-0.5-	RG79K	08/05/10
15	PSB15-1.5-2-	RG79L	08/05/10
16	PSB15-2-4-07	RG79M	08/05/10
17	PSB15-4-6-07	RG79N	08/05/10
18	PSB15-13-15-	RG79O	08/05/10
19	PSB15-17-19-	RG79P	08/05/10
20	PSB15-17-19-	RG79Q	08/05/10
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
Page 1 of 1

Sample ID: MB-080510
METHOD BLANK

Lab Sample ID: MB-080510
LIMS ID: 10-18505
Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Date Analyzed: 08/05/10 10:01
Instrument/Analyst: PID2/MH

Purge Volume: 5.0 mL
Sample Amount: 100 mg-dry-wt

CAS Number	Analyte	RL	Result
71-43-2	Benzene	12	< 12 U
108-88-3	Toluene	12	< 12 U
100-41-4	Ethylbenzene	12	< 12 U
179601-23-1	m,p-Xylene	25	< 25 U
95-47-6	o-Xylene	12	< 12 U

			GAS ID
Gasoline Range Hydrocarbons	5.0	< 5.0 U	---

BETX Surrogate Recovery

Trifluorotoluene	88.4%
Bromobenzene	89.0%

Gasoline Surrogate Recovery

Trifluorotoluene	89.0%
Bromobenzene	89.9%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

Instrument/Det: PID2.I/RTX 502-2 FID Project: LORA LAKE

Calibration Date: 28-JUL-2010 SDG No.: RG79

Gas Range	RF1 0.1	RF2 0.25	RF3 1.0	RF4 2.5	RF5 5.0	RF6 20	Ave RF	%RSD
WA Gas	645285	580360	562860	559889	570101	542758	576875	6.2
AK Gas	1005780	915314	886524	857728	869699	800065	889185	7.7
NW Gas	689685	605684	586542	582439	591310	556137	601966	7.6
8015Gas	1455915	1351382	1309436	1264474	1268273	1179446	1304821	7.2
$TFT(Surr)	45.63636	42.52273	41.85075	40.65000	40.39098	40.27528		
	39.29000						41.51659	5.073
$BB(Surr)	33.22727	31.04545	30.40299	29.69000	29.64662	29.08989		
	28.20000						30.18603	5.362

<- Indicates %RSD outside limits
Surrogate areas are not included in RF calculation.

Quant Ranges : WA Gas Toluene - nC12
AK Gas nC6 - nC10
NW Gas Toluene - Naphthalene
8015 Gas 2-Methylpentane - 1,2,4-Trimethylbenzene

Calibration Files	Analysis Time
0728a014.d	28-JUL-2010 13:24
0728a015.d	28-JUL-2010 13:50
0728a016.d	28-JUL-2010 14:16
0728a017.d	28-JUL-2010 14:42
0728a018.d	28-JUL-2010 15:08
0728a019.d	28-JUL-2010 15:34

Surr Calibration Files	Analysis Time
0728a005.d	28-JUL-2010 09:30
0728a006.d	28-JUL-2010 09:56
0728a007.d	28-JUL-2010 10:22
0728a008.d	28-JUL-2010 10:48
0728a009.d	28-JUL-2010 11:14
0728a010.d	28-JUL-2010 11:40
0728a011.d	28-JUL-2010 12:06

BETX INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG79 Project No.: LORA LAKE

Instrument/Det: PID2 /RTX 502-2 PID Calibration Date: 07/28/10

	CALIBRATION FACTORS						
COMPOUND	0.25	0.5	5	25	50	MEAN	%RSD
Benzene	124	116	118	115	116		
Toluene	120	96	102	102	101		
Ethylbenzene	136	128	110	108	107		
M/P-Xylene	84	95	101	99	98		
O-Xylene	80	110	106	105	102		
MTBE	44	44	42	42	41		
TFT(Surr)	15	14	14	14	14		
BB(Surr)	62	58	59	58	57		

Calibration Files

/chem3/pid2.i/072810-2.b/0728a005.d
/chem3/pid2.i/072810-2.b/0728a006.d
/chem3/pid2.i/072810-2.b/0728a007.d
/chem3/pid2.i/072810-2.b/0728a008.d
/chem3/pid2.i/072810-2.b/0728a009.d
/chem3/pid2.i/072810-2.b/0728a010.d
/chem3/pid2.i/072810-2.b/0728a011.d

BETX INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG79 Project No.: LORA LAKE

Instrument/Det: PID2 /RTX 502-2 PID Calibration Date: 07/28/10

	CALIBRATION FACTORS						
COMPOUND	100	200	MEAN	%RSD			
Benzene	111	115	116	3.40			
Toluene	100	106	104	7.49			
Ethylbenzene	105	109	115	10.66			
M/P-Xylene	98	104	97	6.53			
O-Xylene	102	106	102	9.74			
MTBE	40	41	42	3.83			
TFT(Surr)	14	14	14	2.94			
BB(Surr)	57	56	58	3.45			

BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG79 Project No.: LORA LAKE

Instrument/Det: PID2/RTX 502-2 PID Calibration Date: 07/28/10

Init. Calib. Date(s): 07/28/10 Calib. File: 0728A012.D

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	%D
Benzene	7.48	7.43	7.53	23.80	25.00	-4.8
Toluene	10.09	10.04	10.14	23.79	25.00	-4.8
Ethylbenzene	12.65	12.61	12.71	22.67	25.00	-9.3
M/P-Xylene	12.80	12.75	12.85	49.81	50.00	-0.4
O-Xylene	13.60	13.58	13.64	24.60	25.00	-1.6
MTBE	5.09	5.05	5.15	24.20	25.00	-3.2
TFT(Surr)	8.22	8.18	8.28	95.96	100.0	-4.0
BB(Surr)	14.82	14.77	14.87	97.16	100.0	-2.8

FORM VII BETX

GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client:FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project:LORA LAKE

CCal Date: 28-JUL-2010 SDG No.: RG579

Lab File Name: 0728a021.d Inst/Det: PID2.I/RTX 502-2 FID

Gas Range	Area*	CalcAmnt	NomAmnt	%D
WAGas (Tol-C12)	1722903	2.99	2.50	19.5
AKGas (C6-C10)	2201780	2.48	2.50	-1.0
NWGas (Tol-Nap)	1751023	2.91	2.50	16.4
8015B (2MP-TMB)	2869302	2.20	2.50	-12.0

* Surrogate areas are subtracted from Total Area
<- Indicates an RPD outside QC limits

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client:FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project:LORA LAKE

CCal Date: 28-JUL-2010 SDG No.: RG79

Lab File Name: 0728a021.d Inst/Det: PID2.I/RTX 502-2 FID

Surrogate	Area	CalcAmnt	NomAmnt	RPD
Trifluorotol	68079	98.4	100.0	-1.6
Bromoflrbenz	26233	97.3	100.0	-2.7

7a
GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE

CCal Date: 05-AUG-2010 SDG No.: RG79

Lab File Name: 0805a003.d Inst/Det: PID2.I/RTX 502-2 FID

Gas Range	Area*	CalcAmnt	NomAmnt	%D
WAGas (Tol-C12)	1427774	2.47	2.50	-1.0
AKGas (C6-C10)	2253604	2.53	2.50	1.4
NWGas (Tol-Nap)	1482747	2.46	2.50	-1.5
8015B (2MP-TMB)	3268248	2.50	2.50	0.2

* Surrogate areas are subtracted from Total Area
<- Indicates an RPD outside QC limits

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE

CCal Date: 05-AUG-2010 SDG No.: RG79

Lab File Name: 0805a003.d Inst/Det: PID2.I/RTX 502-2 FID

Surrogate	Area	CalcAmnt	NomAmnt	RPD
Trifluorotol	70266	101.9	100.0	1.9
Bromoflrbenz	29802	100.3	100.0	0.3

BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG79 Project No.: LORA LAKE

Instrument/Det: PID2/RTX 502-2 PID Calibration Date: 08/05/10

Init. Calib. Date(s): 07/28/10 Calib. File: 0805A014.D

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	%D
Benzene	7.49	7.43	7.53	23.84	25.00	-4.6
Toluene	10.09	10.04	10.14	23.08	25.00	-7.7
Ethylbenzene	12.65	12.61	12.71	22.33	25.00	-10.7
M/P-Xylene	12.80	12.75	12.85	47.62	50.00	-4.8
O-Xylene	13.61	13.58	13.64	23.85	25.00	-4.6
MTBE	5.10	5.05	5.15	22.75	25.00	-9.0
TFT(Surr)	8.23	8.18	8.28	92.62	100.0	-7.4
BB(Surr)	14.83	14.77	14.87	92.78	100.0	-7.2

FORM VII BETX

7a
GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE

CCal Date: 05-AUG-2010 SDG No.: RG79

Lab File Name: 0805a015.d Inst/Det: PID2.I/RTX 502-2 FID

Gas Range	Area*	CalcAmnt	NomAmnt	%D
WAGas (Tol-C12)	1397650	2.42	2.50	-3.1
AKGas (C6-C10)	2174980	2.45	2.50	-2.2
NWGas (Tol-Nap)	1450054	2.41	2.50	-3.7
8015B (2MP-TMB)	3191402	2.45	2.50	-2.2

* Surrogate areas are subtracted from Total Area
<- Indicates an RPD outside QC limits

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE

CCal Date: 05-AUG-2010 SDG No.: RG79

Lab File Name: 0805a015.d Inst/Det: PID2.I/RTX 502-2 FID

Surrogate	Area	CalcAmnt	NomAmnt	RPD
Trifluorotol	67868	97.5	100.0	-2.5
Bromoflrbenz	28997	97.2	100.0	-2.8

BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG79 Project No.: LORA LAKE

Instrument/Det: PID2/RTX 502-2 PID Calibration Date: 08/05/10

Init. Calib. Date(s): 07/28/10 Calib. File: 0805A026.D

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	%D
Benzene	7.49	7.43	7.53	23.98	25.00	-4.1
Toluene	10.10	10.04	10.14	23.45	25.00	-6.2
Ethylbenzene	12.66	12.61	12.71	22.09	25.00	-11.6
M/P-Xylene	12.80	12.75	12.85	46.69	50.00	-6.6
O-Xylene	13.61	13.58	13.64	23.79	25.00	-4.8
MTBE	5.11	5.05	5.15	23.06	25.00	-7.8
TFT(Surr)	8.23	8.18	8.28	92.62	100.0	-7.4
BB(Surr)	14.83	14.77	14.87	95.61	100.0	-4.4

FORM VII BETX

7a
GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE

CCal Date: 05-AUG-2010 SDG No.: RG79

Lab File Name: 0805a027.d Inst/Det: PID2.I/RTX 502-2 FID

Gas Range	Area*	CalcAmnt	NomAmnt	%D
WAGas (Tol-C12)	1368488	2.37	2.50	-5.1
AKGas (C6-C10)	2110338	2.37	2.50	-5.1
NWGas (Tol-Nap)	1416771	2.35	2.50	-5.9
8015B (2MP-TMB)	3099548	2.38	2.50	-5.0

* Surrogate areas are subtracted from Total Area
<- Indicates an RPD outside QC limits

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.
Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010
Project: LORA LAKE

CCal Date: 05-AUG-2010
SDG No.: RG79

Lab File Name: 0805a027.d
Inst/Det: PID2.I/RTX 502-2 FID

Surrogate	Area	CalcAmnt	NomAmnt	RPD
Trifluorotol	69169	98.7	100.0	-1.3
Bromoflrbenz	29640	100.2	100.0	0.2

BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG79 Project No.: LORA LAKE

Instrument/Det: PID2/RTX 502-2 PID Calibration Date: 08/05/10

Init. Calib. Date(s): 07/28/10 Calib. File: 0805A033.D

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	%D
Benzene	7.49	7.43	7.53	23.28	25.00	-6.9
Toluene	10.10	10.04	10.14	22.79	25.00	-8.8
Ethylbenzene	12.66	12.61	12.71	21.77	25.00	-12.9
M/P-Xylene	12.81	12.75	12.85	45.63	50.00	-8.7
O-Xylene	13.61	13.58	13.64	23.14	25.00	-7.4
MTBE	5.11	5.05	5.15	22.27	25.00	-10.9
TFT(Surr)	8.24	8.18	8.28	91.29	100.0	-8.7
BB(Surr)	14.83	14.77	14.87	95.82	100.0	-4.2

FORM VII BETX

7a
GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE

CCal Date: 05-AUG-2010 SDG No.: RG79

Lab File Name: 0805a034.d Inst/Det: PID2.I/RTX 502-2 FID

Gas Range	Area*	CalcAmnt	NomAmnt	%D
WAGas (Tol-C12)	1310244	2.27	2.50	-9.2
AKGas (C6-C10)	1939518	2.18	2.50	-12.8
NWGas (Tol-Nap)	1357790	2.26	2.50	-9.8
8015B (2MP-TMB)	2899900	2.22	2.50	-11.1

* Surrogate areas are subtracted from Total Area
<- Indicates an RPD outside QC limits

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD/SNIDER

ICal Date: 28-JUL-2010 Project: LORA LAKE

CCal Date: 05-AUG-2010 SDG No.: RG79

Lab File Name: 0805a034.d Inst/Det: PID2.I/RTX 502-2 FID

Surrogate	Area	CalcAmnt	NomAmnt	RPD
Trifluorotol	68500	98.7	100.0	-1.3
Bromoflrbenz	29603	101.7	100.0	1.7

BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG79 Project No.: LORA LAKE

Instrument/Det: PID2/RTX 502-2 PID Calibration Date: 08/05/10

Init. Calib. Date(s): 07/28/10 Calib. File: 0805A002.D

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	%D
Benzene	7.49	7.43	7.53	22.98	25.00	-8.1
Toluene	10.10	10.04	10.14	22.66	25.00	-9.4
Ethylbenzene	12.66	12.61	12.71	21.85	25.00	-12.6
M/P-Xylene	12.81	12.75	12.85	46.63	50.00	-6.7
O-Xylene	13.61	13.58	13.64	23.57	25.00	-5.7
MTBE	5.11	5.05	5.15	22.75	25.00	-9.0
TFT(Surr)	8.24	8.18	8.28	94.77	100.0	-5.2
BB(Surr)	14.83	14.77	14.87	94.58	100.0	-5.4

FORM VII BETX

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG79 Project: LORA LAKE

Instrument ID: PID2 GC Detector: RTX 502-2 FID

Run Date: 07/28/10

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

METHOD SURROGATE RT
S1 : 8.18 S2 : 14.80

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	S1 #	S2 RT	S2 #
01		RINSE	07/28/10	0604	8.18		14.81	
02		RT+BCAL 1	07/28/10	0629	8.19		14.80	
03		GCAL 1	07/28/10	0655	8.19		14.80	
04		RINSE	07/28/10	0904	8.20			
05		BETX .25	07/28/10	0930	8.19		14.80	
06		BETX .5	07/28/10	0956	8.18		14.80	
07		BETX 5	07/28/10	1022	8.18		14.80	
08		BETX 25	07/28/10	1048	8.18		14.80	
09		BETX 50	07/28/10	1114	8.18		14.80	
10		BETX 100	07/28/10	1140	8.18		14.80	
11		BETX 200	07/28/10	1206	8.18		14.80	
12		BETX ICV	07/28/10	1232	8.17		14.80	
13		RINSE	07/28/10	1258				
14		GAS .1	07/28/10	1324	8.18		14.80	
15		GAS .25	07/28/10	1350	8.18		14.80	
16		GAS 1	07/28/10	1416	8.18		14.80	
17		GAS 2.5	07/28/10	1442	8.18		14.80	
18		GAS 5	07/28/10	1508	8.18		14.80	
19		GAS 20	07/28/10	1534	8.18		14.80	
20		RINSE	07/28/10	1600			14.86	
21		GAS ICV	07/28/10	1626	8.18		14.80	

QC LIMITS

S1 = TFT(Surr) (+/- 0.07 MINUTES)
S2 = BB(Surr) (+/- 0.07 MINUTES)

* Values outside of QC limits.

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG79 Project: LORA LAKE

Instrument ID: PID2 GC Detector: RTX 502-2 PID

Run Date: 08/05/10

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

METHOD SURROGATE RT
S1 : 8.23 S2 : 14.82

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	S1 #	S2 RT	S2 #
01	ZZZZZ	ZZZZZ	08/05/10	0751			14.83	
02	RT+BCAL 1	RT+BCAL 1	08/05/10	0817	8.24		14.83	
03	GCAL 1	GCAL 1	08/05/10	0843	8.23		14.83	
04	LCS0805S1	LCS0805	08/05/10	0909	8.23		14.83	
05	LCSD0805S1	LCSD0805	08/05/10	0935	8.23		14.82	
06	MB0805S1	MB0805	08/05/10	1001	8.23		14.82	
07	PSB11-TB	RG79J	08/05/10	1054	8.23		14.83	
08	PB15-TB	RG79S	08/05/10	1120	8.23		14.83	
09	PSB11-0-0.5-	RG79A	08/05/10	1146	8.23		14.83	
10	PSB11-1.5-2-	RG79B	08/05/10	1212	8.23		14.83	
11	PSB11-2-4-07	RG79C	08/05/10	1238	8.23		14.83	
12	PSB11-2-4-07	RG79D	08/05/10	1304	8.23		14.83	
13	ZZZZZ	ZZZZZ	08/05/10	1330				
14	BCAL 2	BCAL 2	08/05/10	1356	8.23		14.83	
15	GCAL 2	GCAL 2	08/05/10	1422	8.23		14.83	
16	PSB11-4-6-07	RG79E	08/05/10	1448	8.23		14.83	
17	PSB11-4-6-07	RG79EMS	08/05/10	1514	8.23		14.83	
18	PSB11-4-6-07	RG79EMSD	08/05/10	1540	8.23		14.83	
19	PSB11-11-13-	RG79G	08/05/10	1606	8.23		14.83	
20	PSB11-14-16-	RG79H	08/05/10	1632	8.23		14.83	
21	PSB15-0-0.5-	RG79K	08/05/10	1658	8.23		14.83	
22	PSB15-1.5-2-	RG79L	08/05/10	1724	8.23		14.83	
23	PSB15-2-4-07	RG79M	08/05/10	1750	8.23		14.83	
24	PSB15-4-6-07	RG79N	08/05/10	1816	8.23		14.83	
25	ZZZZZ	ZZZZZ	08/05/10	1842				
26	BCAL 3	BCAL 3	08/05/10	1908	8.23		14.83	
27	ZZZZZ	ZZZZZ	08/05/10	1934	8.24		14.83	
28	PSB15-13-15-	RG79O	08/05/10	2000	8.24		14.83	
29	PSB15-17-19-	RG79P	08/05/10	2026	8.24		14.83	
30	PSB15-17-19-	RG79Q	08/05/10	2052	8.23		14.83	
31	ZZZZZ	ZZZZZ	08/05/10	2118	8.24		14.83	
32	ZZZZZ	ZZZZZ	08/05/10	2144				

QC LIMITS

S1 = TFT(Surr) (+/- 0.05 MINUTES)
S2 = BB(Surr) (+/- 0.05 MINUTES)

* Values outside of QC limits.

FORM VIII-2 BETX

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD/SNIDER

SDG No.: RG79 Project: LORA LAKE

Instrument ID: PID2 GC Detector: RTX 502-2 PID

Run Date: 08/05/10

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

	METHOD SURROGATE RT S1 : 8.23 S2 : 14.82							
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	S1 #	S2 RT	S2 #
01	BCAL 4	BCAL 4	08/05/10	2209	8.24		14.83	
02	GCAL 4	GCAL 4	08/05/10	2235	8.23		14.83	

		QC LIMITS
S1	= TFT(Surr)	(+/- 0.05 MINUTES)
S2	= BB(Surr)	(+/- 0.05 MINUTES)

* Values outside of QC limits.

Metals Analysis
Report and Summary QC Forms

ARI Job ID: RG79

Cover Page

INORGANIC ANALYSIS DATA PACKAGE

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

SDG: RG79

CLIENT ID	ARI ID	ARI LIMS ID	REPREP
PSB11-0-0.5-073010	RG79A	10-18505	
PSB11-1.5-2-073010	RG79B	10-18506	
PSB11-2-4-073010	RG79C	10-18507	
PSB11-2-4-073010-D	RG79D	10-18508	
PSB11-4-6-073010	RG79E	10-18509	
PSB11-4-6-073010D	RG79EDUP	10-18509	
PSB11-4-6-073010S	RG79ESPK	10-18509	
PSB11-11-13-073010	RG79G	10-18511	
PBS	RG79MB1	10-18511	
LCSS	RG79MB1SPK	10-18511	
LCSS	RG79REF1	10-18511	
PSB11-14-16-073010	RG79H	10-18512	
PSB15-0-0.5-073010	RG79K	10-18515	
PSB15-1.5-2-073010	RG79L	10-18516	
PSB15-2-4-073010	RG79M	10-18517	
PSB15-4-6-073010	RG79N	10-18518	
PSB15-13-15-073010	RG79O	10-18519	
PSB15-17-19-073010	RG79P	10-18520	
PSB15-17-19-073010	RG79Q	10-18521	

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: 8.13.10 Title: Inorganic Manager

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: PSB11-0-0.5-073010
SAMPLE

Lab Sample ID: RG79A
LIMS ID: 10-18505
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 86.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/06/10	6010B	08/11/10	7440-38-2	Arsenic	5	5	U
3050B	08/06/10	6010B	08/11/10	**7439-92-1**	**Lead**	2	**12**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: PSB11-1.5-2-073010
SAMPLE

Lab Sample ID: RG79B
LIMS ID: 10-18506
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 87.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/06/10	6010B	08/11/10	7440-38-2	Arsenic	5	5	U
3050B	08/06/10	6010B	08/11/10	**7439-92-1**	**Lead**	2	**304**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: PSB11-2-4-073010
SAMPLE

Lab Sample ID: RG79C
LIMS ID: 10-18507
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 86.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/06/10	6010B	08/11/10	**7440-38-2**	**Arsenic**	6	7	
3050B	08/06/10	6010B	08/11/10	**7439-92-1**	**Lead**	2	**1,680**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: PSB11-2-4-073010-D
SAMPLE

Lab Sample ID: RG79D
LIMS ID: 10-18508
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 84.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/06/10	6010B	08/12/10	**7440-38-2**	**Arsenic**	6	**6**	
3050B	08/06/10	6010B	08/12/10	**7439-92-1**	**Lead**	2	**2,880**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: PSB11-4-6-073010
SAMPLE

Lab Sample ID: RG79E
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 88.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/06/10	6010B	08/12/10	7440-38-2	Arsenic	5	5	U
3050B	08/06/10	6010B	08/12/10	**7439-92-1**	**Lead**	2	**131**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: PSB11-4-6-073010
MATRIX SPIKE

Lab Sample ID: RG79E
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	6010B	5 U	213	210	101%	
Lead	6010B	131	366	210	112%	

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
Page 1 of 1

Sample ID: PSB11-4-6-073010
DUPLICATE

Lab Sample ID: RG79E
LIMS ID: 10-18509
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	6010B	5 U	9	57.1%	+/- 5	L
Lead	6010B	131	1,420	166%	+/- 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: PSB11-11-13-073010
SAMPLE

Lab Sample ID: RG79G
LIMS ID: 10-18511
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 88.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/06/10	6010B	08/12/10	7440-38-2	Arsenic	5	5	U
3050B	08/06/10	6010B	08/12/10	**7439-92-1**	**Lead**	2	**162**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: PSB11-14-16-073010
SAMPLE

Lab Sample ID: RG79H
LIMS ID: 10-18512
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 82.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/06/10	6010B	08/12/10	7440-38-2	Arsenic	6	6	U
3050B	08/06/10	6010B	08/12/10	**7439-92-1**	**Lead**	2	**45**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: PSB15-0-0.5-073010
SAMPLE

Lab Sample ID: RG79K
LIMS ID: 10-18515
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 92.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/06/10	6010B	08/12/10	**7440-38-2**	**Arsenic**	5	**8**	
3050B	08/06/10	6010B	08/12/10	**7439-92-1**	**Lead**	2	**245**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: PSB15-1.5-2-073010
SAMPLE

Lab Sample ID: RG79L
LIMS ID: 10-18516
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 93.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/06/10	6010B	08/12/10	7440-38-2	Arsenic	5	5	U
3050B	08/06/10	6010B	08/12/10	**7439-92-1**	**Lead**	2	**21**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: PSB15-2-4-073010
SAMPLE

Lab Sample ID: RG79M
LIMS ID: 10-18517
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 94.1%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/06/10	6010B	08/12/10	7440-38-2	Arsenic	5	5	U
3050B	08/06/10	6010B	08/12/10	**7439-92-1**	**Lead**	2	**34**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: PSB15-4-6-073010
SAMPLE

Lab Sample ID: RG79N
LIMS ID: 10-18518
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 94.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/06/10	6010B	08/12/10	7440-38-2	Arsenic	5	5	U
3050B	08/06/10	6010B	08/12/10	**7439-92-1**	**Lead**	2	**43**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: PSB15-13-15-073010
SAMPLE

Lab Sample ID: RG790
LIMS ID: 10-18519
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 84.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/06/10	6010B	08/12/10	7440-38-2	Arsenic	6	6	U
3050B	08/06/10	6010B	08/12/10	**7439-92-1**	**Lead**	2	**165**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: PSB15-17-19-073010
SAMPLE

Lab Sample ID: RG79P
LIMS ID: 10-18520
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 84.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/06/10	6010B	08/12/10	7440-38-2	Arsenic	6	6	U
3050B	08/06/10	6010B	08/12/10	7439-92-1	Lead	2	2	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: PSB15-17-19-073010-D
SAMPLE

Lab Sample ID: RG79Q
LIMS ID: 10-18521
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Percent Total Solids: 88.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	08/06/10	6010B	08/12/10	7440-38-2	Arsenic	5	5	U
3050B	08/06/10	6010B	08/12/10	**7439-92-1**	**Lead**	2	**2**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: STD REFERENCE
ERA D053540

Lab Sample ID: RG79SRM
LIMS ID: 10-18511
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: NA
Date Received: NA

Analyte	Analysis Method	Analysis Date	mg/kg-dry	Certified Value	Advisory Range
Arsenic	6010B	08/12/10	107	132	106-157
Lead	6010B	08/12/10	106	130	106-154

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: LAB CONTROL**

Lab Sample ID: RG79LCS
LIMS ID: 10-18511
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	212	200	106%	
Lead	6010B	204	200	102%	

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: RG79MB
LIMS ID: 10-18511
Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

QC Report No: RG79-Floyd/Snider
Project: Lora Lake RI
POS-LLA
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	08/06/10	6010B	08/12/10	7440-38-2	Arsenic	5	5	U
3050B	08/06/10	6010B	08/12/10	7439-92-1	Lead	2	2	U

U-Analyte undetected at given RL
RL-Reporting Limit

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

SDG: RG79

UNITS: ug/L

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Arsenic	AS	ICP	IP081122	2000.0	2016.86	100.8	2000.0	1982.87	99.1	1916.52	95.8	1889.30	94.5	1854.09	92.7	1823.61	91.2
Lead	PB	ICP	IP081122	2000.0	2011.07	100.6	2000.0	1965.24	98.3	1917.23	95.9	1872.41	93.6	1837.82	91.9	1830.33	91.5

RG79 : 802116

Control Limits: Mercury 80-120; Other Metals 90-110

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

UNITS: ug/L

SDG: RG79

ANALYTE	EL	M	RUN	CCVTV	CCV6	%R	CCV7	%R	CCV8	%R	CCV9	%R	CCV10	%R	CCV11	%R
Arsenic	AS	ICP	IP081122	2000.0	1817.06	90.9										
Lead	PB	ICP	IP081122	2000.0	1828.70	91.4										

Control Limits: Mercury 80-120; Other Metals 90-110

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

UNITS: ug/L

SDG: RG79

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Arsenic	AS	ICP	IP081271	2000.0	2026.89	101.3	2000.0	2025.11	101.3	2036.74	101.8	2078.97	103.9	2131.73	106.6	2062.90	103.1
Lead	PB	ICP	IP081271	2000.0	2012.54	100.6	2000.0	2010.78	100.5	2019.17	101.0	2058.30	102.9	2115.99	105.8	2043.84	102.2

RG79 : 90215

Control Limits: Mercury 80-120; Other Metals 90-110

Calibration Verification

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

UNITS: ug/L

SDG: RG79

ANALYTE	EL	M	RUN	CCVTV	CCV6	%R	CCV7	%R	CCV8	%R	CCV9	%R	CCV10	%R	CCV11	%R
Arsenic	AS	ICP	IP081271	2000.0	2069.62	103.5	2106.06	105.3	2086.39	104.3						
Lead	PB	ICP	IP081271	2000.0	2057.84	102.9	2092.88	104.6	2080.23	104.0						

Control Limits: Mercury 80-120; Other Metals 90-110

CRDL Standard

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

UNITS: ug/L

SDG: RG79

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	IP081122	50.0	48.70	**97.4**										
Lead	PB	ICP	IP081122	20.0	19.64	**98.2**										
Arsenic	AS	ICP	IP081271	50.0	51.52	**103.0**										
Lead	PB	ICP	IP081271	20.0	18.46	**92.3**										

Control Limits: no control limits have been established by the EPA at this time.

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

SDG: RG79

UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	ICB	C	CCB1	C	CCB2	C	CCB3	C	CCB4	C	CCB5	C
Arsenic	AS	ICP	IP081122	10.0	50.0	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U
Lead	PB	ICP	IP081122	3.0	20.0	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U

RG79 : 002149

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

SDG: RG79

UNITS:ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	CCB6	C	CCB7	C	CCB8	C	CCB9	C	CCB10	C	CCB11	C
Arsenic	AS	ICP	IP081122	10.0	50.0	50.0	U										
Lead	PB	ICP	IP081122	3.0	20.0	20.0	U										

RG79 00259

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

SDG: RG79

UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	ICB	C	CCB1	C	CCB2	C	CCB3	C	CCB4	C	CCB5	C
Arsenic	AS	ICP	IP081271	10.0	50.0	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U
Lead	PB	ICP	IP081271	3.0	20.0	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U

RG79::00251

Calibration Blanks

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

SDG: RG79

UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	CCB6	C	CCB7	C	CCB8	C	CCB9	C	CCB10	C	CCB11	C
Arsenic	AS	ICP	IP081271	10.0	50.0	50.0	U	50.0	U								
Lead	PB	ICP	IP081271	3.0	20.0	20.0	U	20.0	U								

RG79 00252

ICP Interference Check Sample

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

ICS SOURCE: I.V.

PROJECT: Lora Lake RI

RUNID: IP081122

SDG: RG79

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	198987.1	199636.4	**99.8**						
Antimony		1000	-4.5	1078.0	**107.8**						
Arsenic		1000	-4.9	996.5	**99.7**						
Barium		1000	1.6	966.4	**96.6**						
Beryllium		1000	0.0	999.8	**100.0**						
Boron			14.6	16.5							
Cadmium		1000	0.9	1001.2	**100.1**						
Calcium	100000	100000	96160.5	96308.5	**96.3**						
Chromium		1000	2.3	971.8	**97.2**						
Cobalt		1000	0.7	916.5	**91.7**						
Copper		1000	0.4	1053.2	**105.3**						
Iron	200000	200000	192424.2	192734.5	**96.4**						
Lead		1000	5.2	942.3	**94.2**						
Magnesium	100000	100000	97976.8	100385.3	**100.4**						
Manganese		1000	-0.6	968.0	**96.8**						
Molybdenum			1.8	2.4							
Nickel		1000	-1.4	945.2	**94.5**						
Potassium			-57.4	-41.3							
Selenium		1000	-18.9	987.5	**98.8**						
Silicon			-4.1	0.9							
Silver		1000	0.4	1013.5	**101.4**						
Sodium			18.6	25.9							
Strontium			3.7	4.2							
Thallium		1000	-28.3	922.0	**92.2**						
Tin			-9.6	-10.0							
Titanium			0.6	-0.5							
Vanadium		1000	-0.5	985.6	**98.6**						
Zinc		1000	-1.0	915.8	**91.6**						

RG79 08253

ICP Interference Check Sample

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

ICS SOURCE: I.V.

PROJECT: Lora Lake RI

RUNID: IP081271

SDG: RG79

INSTRUMENT ID: OPTIMA ICP 2

UNITS: ug/L

ANALYTE	ICSA TV	ICSAB TV	ICSA1	ICSAB1	%R	ICSA2	ICSAB2	%R	ICSA3	ICSAB3	%R
Aluminum	200000	200000	200773.6	200289.0	**100.1**						
Antimony		1000	19.8	1043.1	**104.3**						
Arsenic		1000	5.9	1012.6	**101.3**						
Barium		1000	1.6	955.4	**95.5**						
Beryllium		1000	0.0	972.3	**97.2**						
Boron			4.2	3.7							
Cadmium		1000	2.4	1049.5	**105.0**						
Calcium	100000	100000	99299.0	99596.4	**99.6**						
Chromium		1000	0.9	973.5	**97.4**						
Cobalt		1000	-0.4	975.4	**97.5**						
Copper		1000	-1.3	1016.5	**101.7**						
Iron	200000	200000	192295.9	191580.9	**95.8**						
Lead		1000	-5.6	968.1	**96.8**						
Magnesium	100000	100000	97942.2	102702.8	**102.7**						
Manganese		1000	1.0	911.9	**91.2**						
Molybdenum			4.2	4.1							
Nickel		1000	1.2	956.6	**95.7**						
Potassium			40.9	41.1							
Selenium		1000	43.1	1039.6	**104.0**						
Silicon			-21.3	-15.0							
Silver		1000	-0.9	1010.6	**101.1**						
Sodium			4.6	3.2							
Strontium			3.5	3.5							
Thallium		1000	7.8	975.2	**97.5**						
Tin			-13.0	-11.2							
Titanium			2.6	1.6							
Vanadium		1000	2.2	961.7	**96.2**						
Zinc		1000	-5.5	935.5	**93.6**						

RG79::00251

IDLs and ICP Linear Ranges

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

SDG: RG79 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	4/1/2010	30000.0	7/12/2010
Arsenic	AS	ICP	OPTIMA ICP 2	197.20		10	50.0	4/1/2010	30000.0	6/25/2010
Lead	PB	ICP	OPTIMA ICP 1	220.35		3	20.0	4/1/2010	300000.0	7/12/2010
Lead	PB	ICP	OPTIMA ICP 2	220.35		3	20.0	4/1/2010	300000.0	6/25/2010

ICP Interelement Correction Factors

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

IEC DATE: 6/25/2010

SDG: RG79

INSTRUMENT ID: OPTIMA ICP 2

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	0.0000000	10.6345000	0.0000000	0.0000000
Arsenic	188.98	0.0000000	0.0000000	0.0000000	0.0000000	0.0302010	0.0000000	-0.9445380	1.0514100	0.0000000	0.0000000
Barium	233.53	0.0000000	0.0000000	0.0000000	0.0000000	0.0087705	0.0000000	-0.1163000	0.0000000	0.0000000	0.0917961
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	3.3930900	0.0000000	0.0000000	0.0000000	0.0000000	0.1261800	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.5291320	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0194491	0.0000000	-0.0579845	0.0000000	0.0000000	-0.0470434
Cobalt	228.62	0.0000000	0.0000000	0.1846310	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0124726
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.2841270	-0.0424887	0.0000000	-0.0717000
Iron	273.96	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	-0.1693720	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-1.9714800	1.2740100	0.0700135
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.1319490	0.0000000	-1.9410900	-0.9247460	0.0000000	0.5007690
Manganese	257.61	0.0067696	0.0000000	0.0000000	0.0000000	0.0023349	0.0000000	0.0000000	0.0000000	0.0000000	-0.0051882
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0173285	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	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	0.0000000	0.0679605	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	288.16	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-3.5126200	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	-5.9937200	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	2.3133900	0.3288770	0.0000000	-0.1504990
Tin	189.93	0.0000000	0.0000000	0.0000000	0.0000000	-0.0462590	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0623399	0.0000000	0.0000000	0.1821360	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-4.1559900	0.0000000	0.1070520
Zinc	206.20	0.0279274	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.3041290	0.0000000	0.0000000

RG79 : 00256

ICP Interelement Correction Factors

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

IEC DATE: 6/25/2010

SDG: RG79

INSTRUMENT ID: OPTIMA ICP 2

ANALYTE	WAVELENGTH	MG	MN	MO	NI	PB	SB	TI	TL	V	ZN
Aluminum	308.22	0.0000000	0.0000000	10.5279000	0.0000000	0.0000000	0.0000000	2.3617300	0.0000000	18.6686000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	-0.3653530	0.0000000	0.0000000	-1.2842400	0.0000000	-3.1614700	0.0000000
Arsenic	188.98	0.0000000	0.0000000	1.5685300	0.0000000	0.0000000	0.0000000	-18.0910000	0.0000000	0.0000000	0.0000000
Barium	233.53	0.0000000	0.0000000	0.0000000	0.1042590	0.0000000	0.0000000	0.0000000	0.0000000	0.5343320	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0111651	0.0000000	0.5182900	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	-0.6501870	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	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	0.1304500	0.0000000	0.1655120	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.2567570	0.0000000
Cobalt	228.62	0.0000000	0.0000000	-0.1920370	0.1791340	0.0000000	0.0000000	1.6866300	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0228258	0.0000000	0.7071800	0.0000000	0.0000000	0.0000000	0.3708110	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	5.3092800	0.0000000
Lead	220.35	0.0000000	0.0000000	-0.3219480	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	-3.4563100	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	-0.2309750	0.0000000	0.0000000	0.0000000	-0.0245610	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.7107260	0.0000000	0.0000000	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	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	288.16	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.1962650	0.1355340	0.0000000	0.0000000	0.0000000	-0.0347846	0.0000000	-0.2306430	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	275.8690000	0.0000000	0.0000000	238.7330000
Thallium	190.80	0.0000000	-0.9583370	-3.2391700	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	1.5566700	0.0000000
Tin	189.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.6349390	-0.4579360	0.0000000	0.0000000	0.0000000
Titanium	334.90	0.0000000	0.0000000	1.2012000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	-0.1525300	-0.7369790	0.0000000	0.0000000	0.0000000	0.5819800	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.2610670	0.0000000	-0.0597607	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

RG79 00257

ICP Interelement Correction Factors

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

IEC DATE: 7/6/2010

SDG: RG79

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	0.2355440	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	17.0027000	0.0000000	0.1572420
Arsenic	188.98	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-1.2352700	0.8180370	0.0000000	0.0000000
Barium	233.53	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.1428370	0.0000000	0.0000000	0.0470802
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	1.8037800	0.0000000	0.0000000	0.0000000	0.0000000	0.0974417	0.0000000	0.0000000	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	0.0000000	0.0000000	0.0000000	0.0000000	0.0177217	0.0000000	-0.1961840	0.0000000	0.0000000	-0.0190915
Cobalt	228.62	0.0000000	0.0000000	0.2779700	0.0000000	0.0000000	0.0000000	0.0000000	-0.0353624	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.3251790	-0.0447468	0.0000000	-0.0890304
Iron	273.96	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.7705580	0.0000000	0.0000000
Lead	220.35	-0.2816010	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.1815720	-2.2074600	0.7896340	0.0656631
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-1.1855000	-0.9151660	0.0000000	0.5909920
Manganese	257.61	0.0066850	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0905061	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.3014560	0.0000000	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	-0.2017550	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.1700530
Silicon	288.16	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.9846030	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0079591	0.0000000	0.0000000	0.0000000	0.0000000	-0.0388957
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	6.6097600	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.80	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	7.4722900	0.3242200	0.0000000	0.0000000
Tin	189.93	0.0000000	0.0000000	0.0000000	0.0000000	-0.0541080	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	334.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0390012	0.0000000	0.0000000	0.2355950	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-6.3540200	0.0000000	0.1175110
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	-0.0274712	0.0000000	0.0000000	0.7506560	0.0000000	0.0000000

RG79 6025.D

ICP Interelement Correction Factors

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

IEC DATE: 7/6/2010

SDG: RG79

INSTRUMENT ID: OPTIMA ICP 1

ANALYTE	WAVELENGTH	MG	MN	MO	NI	PB	SB	TI	TL	V	ZN
Aluminum	308.22	0.0000000	0.0000000	21.2545000	0.0000000	0.0000000	0.0000000	2.8125800	0.0000000	15.0921000	0.0000000
Antimony	206.84	0.0000000	0.0000000	1.0344800	-0.3070020	0.0000000	0.0000000	-1.4160400	0.0000000	-3.8439000	0.0000000
Arsenic	188.98	0.0000000	0.0000000	2.5244400	0.0000000	0.0000000	0.0000000	-2.0028700	0.0000000	0.2321020	0.0000000
Barium	233.53	0.0000000	0.0000000	-0.0807140	0.1230910	0.0000000	0.0000000	0.0000000	0.0000000	0.4218910	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0147106	0.0000000	2.5747000	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	-0.2903710	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	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	0.0253678	0.0000000	0.1718520	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	-0.2077620	0.1103830	0.0000000	0.0000000	1.7357300	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.2918050	0.0000000	0.0000000	0.0000000	0.2546650	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	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.2411010	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	-2.3243600	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	-0.2624450	0.0000000	0.0000000	0.0000000	-0.0268726	0.0000000
Molybdenum	202.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0635115
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.7106400	0.0000000	0.5028230	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	0.9733860	0.0000000	1.2234000	0.0000000	0.0000000	0.0000000	0.0000000	0.5486720	0.0000000
Silicon	288.16	-0.1332780	0.0000000	-1.6690100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.1753400	0.1445960	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.2407240	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	10.1240000	0.0000000	0.0000000	17.0380000
Thallium	190.80	0.0000000	1.3195900	-1.8108400	0.0000000	0.0000000	0.0000000	1.6792500	0.0000000	4.8373400	0.0000000
Tin	189.93	-0.0277709	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	-0.3823320	0.0000000	0.0000000	0.0000000
Titanium	334.90	0.0000000	0.0000000	0.9543820	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	-0.1453870	-6.2931400	0.0000000	0.0000000	0.0000000	0.8380490	0.0000000	0.0000000	0.0000000
Zinc	206.20	-0.0223351	0.0000000	0.2510450	0.0000000	-0.0884182	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

RG79 : 60259

Preparation Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI

SDG: RG79

ANALYSIS METHOD: ICP

ARI PREP CODE: SWC

PREPDATE: 8/6/2010

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
PSB11-0-0.5-073010	RG79A	1.062	0.0	50.0
PSB11-1.5-2-073010	RG79B	1.060	0.0	50.0
PSB11-2-4-073010	RG79C	1.047	0.0	50.0
PSB11-2-4-073010-D	RG79D	1.029	0.0	50.0
PSB11-4-6-073010	RG79E	1.076	0.0	50.0
PSB11-4-6-073010D	RG79EDUP	1.074	0.0	50.0
PSB11-4-6-073010S	RG79ESPK	1.078	0.0	50.0
PSB11-11-13-073010	RG79G	1.096	0.0	50.0
PSB11-14-16-073010	RG79H	1.032	0.0	50.0
PSB15-0-0.5-073010	RG79K	1.065	0.0	50.0
PSB15-1.5-2-073010	RG79L	1.044	0.0	50.0
PSB15-2-4-073010	RG79M	1.045	0.0	50.0
PBS	RG79MB1	1.000	0.0	50.0
LCSS	RG79MB1SPK	1.000	0.0	50.0
PSB15-4-6-073010	RG79N	1.024	0.0	50.0
PSB15-13-15-073010	RG79O	1.033	0.0	50.0
PSB15-17-19-073010	RG79P	1.037	0.0	50.0
PSB15-17-19-073010	RG79Q	1.071	0.0	50.0
LCSS	RG79REF1	1.000	0.0	50.0

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI | INSTRUMENT ID: OPTIMA ICP 1 | START DATE: 8/11/2010

SDG: RG79 | RUNID: IP081122 | METHOD: ICP | END DATE: 8/11/2010

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	16144				X																	X									
S2	S2	1.00	16204																														
S3	S3	1.00	16242				X																	X									
S4	S4	1.00	16293																														
S5	S5	1.00	16334																														
S0	S0	1.00	16470				X																	X									
ICV	ICV	1.00	16512				X																	X									
ICB	ICB	1.00	16573				X																	X									
CRI	CRII	1.00	17032				X																	X									
ICSA	ICSAI	1.00	17092				X																	X									
ICSAB	ICSABI	1.00	17154				X																	X									
CCV	CCV1	1.00	17224				X																	X									
CCB	CCB1	1.00	17284				X																	X									
ZZZZZZ	RG64A	1.00	17344																														
ZZZZZZ	RG64B	1.00	17410																														
ZZZZZZ	RG64D	1.00	17470																														
ZZZZZZ	RG64F	1.00	17530																														
ZZZZZZ	RG64EDUP	1.00	17590																														
ZZZZZZ	RG64E	1.00	18050																														
ZZZZZZ	RG64ESPK	1.00	18112																														
ZZZZZZ	RG80C	2.00	18173																														
ZZZZZZ	RG80U	2.00	18233																														
ZZZZZZ	RG80MBSPK	2.00	18292																														
CCV	CCV2	1.00	18353				X																	X									
CCB	CCB2	1.00	18413				X																	X									
ZZZZZZ	RG64MB2	1.00	18472																														
ZZZZZZ	RG64MB1	1.00	18533																														
ZZZZZZ	RG64G	1.00	18593																														
ZZZZZZ	RG64H	1.00	19053																														
ZZZZZZ	RG64J	1.00	19113																														
ZZZZZZ	RG64MDUP	1.00	19173																														
ZZZZZZ	RG64M	1.00	19235																														
ZZZZZZ	RG64MSPK	1.00	19301																														
ZZZZZZ	RG64MB2SPK	1.00	19361																														
ZZZZZZ	RG64MB1SPK	1.00	19422																														

FORM XIV

RG79 : 00291

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI | INSTRUMENT ID: OPTIMA ICP 1 | START DATE: 8/11/2010

SDG: RG79 | RUNID: IP081122 | METHOD: ICP | END DATE: 8/11/2010

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	19482				X																	X									
CCB	CCB3	1.00	19542				X																	X									
ZZZZZZ	RG87MB	1.00	20002																														
ZZZZZZ	RG87B	1.00	20062																														
ZZZZZZ	RG64K	1.00	20124																														
ZZZZZZ	RG64L	1.00	20190																														
ZZZZZZ	RG64N	1.00	20252																														
ZZZZZZ	RG64O	1.00	20312																														
ZZZZZZ	RG64P	1.00	20372																														
ZZZZZZ	RG78A	1.00	20434																														
ZZZZZZ	RG78B	1.00	20494																														
ZZZZZZ	RG87MBSPK	1.00	20555																														
CCV	CCV4	1.00	21015				X																	X									
CCB	CCB4	1.00	21075				X																	X									
ZZZZZZ	RG78MB1	2.00	21135																														
ZZZZZZ	RG78C	2.00	21195																														
ZZZZZZ	RG78D	2.00	21255																														
ZZZZZZ	RG78E	2.00	21315																														
ZZZZZZ	RG78F	2.00	21375																														
ZZZZZZ	RG78JDUP	2.00	21440																														
ZZZZZZ	RG78J	2.00	21500																														
ZZZZZZ	RG78JSPK	2.00	21560																														
ZZZZZZ	RG78REF1	2.00	22015																														
ZZZZZZ	RG78MB1SPK	2.00	22074																														
CCV	CCV5	1.00	22134				X																	X									
CCB	CCB5	1.00	22194				X																	X									
ZZZZZZ	RG78G	2.00	22254																														
ZZZZZZ	RG78H	2.00	22315																														
ZZZZZZ	RG78I	2.00	22375																														
ZZZZZZ	RG78K	2.00	22435																														
ZZZZZZ	RG78L	2.00	22495																														
ZZZZZZ	RG78S	2.00	22560																														
PSB11-0-0.5-073010	RG79A	2.00	23022				X																	X									
PSB11-1.5-2-073010	RG79B	2.00	23082				X																	X									
PSB11-2-4-073010	RG79C	2.00	23142				X																	X									

FORM XIV

RG79 08252

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI | INSTRUMENT ID: OPTIMA ICP 1 | START DATE: 8/11/2010

SDG: RG79 | RUNID: IP081122 | METHOD: ICP | END DATE: 8/11/2010

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
PSB11-2-4-073010-D	RG79D	2.00	23203																														
CCV	CCV6	1.00	23263				X																	X									
CCB	CCB6	1.00	23323				X																	X									

RG79 : 00263

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI | INSTRUMENT ID: OPTIMA ICP 2 | START DATE: 8/12/2010

SDG: RG79 | RUNID: IP081271 | METHOD: ICP | END DATE: 8/12/2010

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	09345				X																	X									
S2	S2	1.00	09385																														
S3	S3	1.00	09403				X																	X									
S4	S4	1.00	09430																														
S5	S5	1.00	09451																														
ICV	ICV	1.00	09520				X																	X									
ICB	ICB	1.00	09581				X																	X									
CRI	CRII	1.00	10023				X																	X									
ICSA	ICSAI	1.00	10075				X																	X									
ICSAB	ICSABI	1.00	10120				X																	X									
CCV	CCV1	1.00	10182				X																	X									
CCB	CCB1	1.00	10250				X																	X									
ZZZZZZ	RG85MB1	2.00	10293																														
ZZZZZZ	RI10MB	1.00	10335																														
ZZZZZZ	RI10A	1.00	10380																														
ZZZZZZ	RG85A	2.00	10421																														
ZZZZZZ	RG85B	2.00	10461																														
ZZZZZZ	RG85MB1SPK	2.00	10502																														
ZZZZZZ	RG85MB1SPD	2.00	10543																														
ZZZZZZ	RI10MBSPK	1.00	10584																														
CCV	CCV2	1.00	11025				X																	X									
CCB	CCB2	1.00	11071				X																	X									
ZZZZZZ	RG94MB1	2.00	11115																														
ZZZZZZ	RG94A	2.00	11161																														
ZZZZZZ	RG94B	2.00	11202																														
ZZZZZZ	RG94C	2.00	11243																														
ZZZZZZ	RG94D	2.00	11284																														
ZZZZZZ	RG94E	2.00	11325																														
ZZZZZZ	RG94F	2.00	11371																														
ZZZZZZ	RG94G	2.00	11412																														
ZZZZZZ	RG94I	2.00	11453																														
ZZZZZZ	RG94MB1SPK	2.00	11494																														
CCV	CCV3	1.00	11540				X																	X									
CCB	CCB3	1.00	11581				X																	X									
ZZZZZZ	RG94MB2	1.00	12025																														

RG79, 082511

Analysis Run Log

ANALYTICAL RESOURCES INCORPORATED

CLIENT: Floyd/Snider

PROJECT: Lora Lake RI | INSTRUMENT ID: OPTIMA ICP 2 | START DATE: 8/12/2010

SDG: RG79 | RUNID: IP081271 | METHOD: ICP | END DATE: 8/12/2010

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	RG94HDUP	2.00	12070																														
ZZZZZZ	RG94H	2.00	12112																														
ZZZZZZ	RG94HSPK	2.00	12153																														
ZZZZZZ	RG94J	2.00	12193																														
ZZZZZZ	RG94K	1.00	12234																														
ZZZZZZ	RG94MB2SPK	1.00	12275																														
CCV	CCV4	1.00	12320				X																	X									
CCV	CCV5	1.00	12391				X																	X									
CCB	CCB4	1.00	12433				X																	X									
CCV	CCV6	1.00	14173				X																	X									
CCB	CCB5	1.00	14215				X																	X									
PBS	RG79MB1	2.00	14324				X																	X									
ZZZZZZ	RG80U	5.00	14365																														
PSB11-2-4-073010-D	RG79D	2.00	14405				X																	X									
PSB11-11-13-073010	RG79G	2.00	14445				X																	X									
PSB11-14-16-073010	RG79H	2.00	14484				X																	X									
PSB15-0-0.5-073010	RG79K	2.00	14524				X																	X									
PSB15-1.5-2-073010	RG79L	2.00	14564				X																	X									
PSB15-2-4-073010	RG79M	2.00	15004				X																	X									
LCSS	RG79REF1	2.00	15042				X																	X									
LCSS	RG79MB1SPK	2.00	15080				X																	X									
CCV	CCV7	1.00	15121				X																	X									
CCB	CCB6	1.00	15163				X																	X									
PSB11-4-6-073010D	RG79EDUP	2.00	15204				X																	X									
PSB11-4-6-073010	RG79E	2.00	15244				X																	X									
PSB11-4-6-073010S	RG79ESPK	2.00	15284				X																	X									
PSB11-4-6-073010D	RG79EDUP	2.00	15355																														
PSB15-4-6-073010	RG79N	2.00	15403				X																	X									
PSB15-13-15-073010	RG79O	2.00	15442				X																	X									
PSB15-17-19-073010	RG79P	2.00	15482				X																	X									
PSB15-17-19-073010	RG79Q	2.00	15524				X																	X									
ZZZZZZ	RG64MSPK	1.00	15565																														
ZZZZZZ	DIL	1.00	16010																														
CCV	CCV8	1.00	16051				X																	X									
CCB	CCB7	1.00	16093				X																	X									

FORM XIV

RG79_08295

General Chemistry Analysis
Report and Summary QC Forms

ARI Job ID: RG79

SAMPLE RESULTS-CONVENTIONALS
RG79-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Client ID: PSB11-11-13-073010
ARI ID: 10-18511 RG79G

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/03/10 080310#1	EPA 160.3	Percent	0.01	87.10
Total Organic Carbon	08/06/10 080610#1	Plumb,1981	Percent	0.020	1.75

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
RG79-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Client ID: PSB11-14-16-073010
ARI ID: 10-18512 RG79H

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/03/10 080310#1	EPA 160.3	Percent	0.01	82.40
Total Organic Carbon	08/06/10 080610#1	Plumb,1981	Percent	0.020	1.78

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
RG79-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Client ID: PSB15-13-15-073010
ARI ID: 10-18519 RG79O

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/03/10 080310#1	EPA 160.3	Percent	0.01	85.50
Total Organic Carbon	08/06/10 080610#1	Plumb,1981	Percent	0.020	1.88

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
RG79-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Client ID: PSB15-17-19-073010
ARI ID: 10-18520 RG79P

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/03/10 080310#1	EPA 160.3	Percent	0.01	84.20
Total Organic Carbon	08/06/10 080610#1	Plumb,1981	Percent	0.020	0.581

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
RG79-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Client ID: PSB15-17-19-073010-D
ARI ID: 10-18521 RG79Q

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/03/10 080310#1	EPA 160.3	Percent	0.01	83.20
Total Organic Carbon	08/06/10 080610#1	Plumb,1981	Percent	0.020	0.455

RL Analytical reporting limit
U Undetected at reported detection limit

LAB CONTROL RESULTS-CONVENTIONALS
RG79-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

Project: Lora Lake RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon Plumb,1981	ICVL	08/06/10	Percent	0.096	0.100	96.0%

METHOD BLANK RESULTS-CONVENTIONALS
RG79-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

Project: Lora Lake RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	08/03/10	Percent	< 0.01 U
Total Organic Carbon	08/06/10	Percent	< 0.020 U

STANDARD REFERENCE RESULTS-CONVENTIONALS
RG79-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/11/10

Project: Lora Lake RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon NIST #8704	08/06/10	Percent	3.22	3.35	96.1%

MS/MSD RESULTS-CONVENTIONALS
RG78-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: RG78J Client ID: PSB10-8.5-10-073010						
Total Organic Carbon	08/12/10	Percent	1.83	3.56	1.83	94.4%

REPLICATE RESULTS-CONVENTIONALS
RG78-Floyd/Snider

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/13/10

Project: Lora Lake RI
Event: POS-LLA
Date Sampled: 07/30/10
Date Received: 07/31/10

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: RG78J Client ID: PSB10-8.5-10-073010					
Total Solids	08/03/10	Percent	87.10	88.00 88.40	0.8%
Total Organic Carbon	08/12/10	Percent	1.83	2.56 2.20	16.6%

Total Solids

ARI Job ID: RG79

Volatiles Total Solids-voats
Data By: Pat Basilio
Created: 8/ 9/10

Worklist: 967
Analyst: PAB
Comments:

Oven ID:_____

Balance ID:_____

Samples In: Date:_____ Time:_____ Temp:_____ Analyst:_____

Samples Out: Date:_____ Time:_____ Temp:_____ Analyst:_____

	ARI ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids
1.	RG79A 10-18505				$ 90.40
2.	RG79B 10-18506				$ 91.40
3.	RG79C 10-18507				$ 84.70
4.	RG79D 10-18508				$ 85.90
5.	RG79E 10-18509				$ 91.40
6.	RG79G 10-18511				$ 88.40
7.	RG79H 10-18512				$ 83.50
8.	RG79K 10-18515				$ 86.70
9.	RG79L 10-18516				$ 93.20
10.	RG79M 10-18517				$ 95.20
11.	RG79N 10-18518				$ 95.20
12.	RG79O 10-18519				$ 83.90
13.	RG79P 10-18520				$ 81.00
14.	RG79Q 10-18521				$ 87.40

Worklist ID: 967 Page: 1
* - VOA TS Copied From BETX TS
% - VOA TS Copied From Metals TS
$ - VOA TS Copied From Extraction TS

8/9

BETX/TPHG Total Solids-betxts
Data By: Monica Herbert
Created: 8/11/10

Worklist: 2072
Analyst: MH
Comments:

Oven ID:_____

Balance ID:_____

Samples In: Date:_____ Time:_____ Temp:_____ Analyst:_____

Samples Out: Date:_____ Time:_____ Temp:_____ Analyst:_____

	ARI ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids
1.	RG79A 10-18505			*	90.4
2.	RG79B 10-18506			*	91.4
3.	RG79C 10-18507			*	84.7
4.	RG79D 10-18508			*	85.9
5.	RG79E 10-18509			*	91.4
6.	RG79G 10-18511			*	88.4
7.	RG79H 10-18512			*	83.5
8.	RG79K 10-18515			*	86.7
9.	RG79L 10-18516			*	93.2
10.	RG79M 10-18517			*	95.2
11.	RG79N 10-18518			*	95.2
12.	RG79O 10-18519			*	83.9
13.	RG79P 10-18520			*	81.0
14.	RG79Q 10-18521			*	87.4

* - BETX TS Copied From VOA TS
% - BETX TS Copied From Metals TS
$ - BETX TS Copied From Extraction TS

Extractions Total Solids-extts
Data By: Woo suk Chang
Created: 8/ 7/10

Worklist: 713
Analyst: RVR
Comments:

Oven ID:_____

Balance ID:_____

Samples In: Date:_____ Time:_____ Temp:_____ Analyst:_____

Samples Out: Date:_____ Time:_____ Temp:_____ Analyst:_____

	ARI ID CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1.	RG79A 10-18505 PSB11-0-0.5-073010	1.17	11.65	10.64	90.4	NR
2.	RG79B 10-18506 PSB11-1.5-2-073010	1.15	11.62	10.72	91.4	NR
3.	RG79C 10-18507 PSB11-2-4-073010	1.17	12.31	10.61	84.7	NR
4.	RG79D 10-18508 PSB11-2-4-073010-D	1.18	11.46	10.01	85.9	NR
5.	RG79E 10-18509 PSB11-4-6-073010	1.17	14.14	13.02	91.4	NR
6.	RG79G 10-18511 PSB11-11-13-073010	1.14	11.49	10.29	88.4	NR
7.	RG79H 10-18512 PSB11-14-16-073010	1.17	11.55	9.84	83.5	NR
8.	RG79I 10-18513 PSB11-23-24-073010	1.17	11.83	11.21	94.2	NR
9.	RG79K 10-18515 PSB15-0-0.5-073010	1.17	11.50	10.13	86.7	NR
10.	RG79L 10-18516 PSB15-1.5-2-073010	1.15	11.93	11.20	93.2	NR
11.	RG79M 10-18517 PSB15-2-4-073010	1.16	12.07	11.55	95.2	NR
12.	RG79N 10-18518 PSB15-4-6-073010	1.16	11.54	11.04	95.2	NR
13.	RG79O 10-18519 PSB15-13-15-073010	1.17	13.02	11.11	83.9	NR

Extractions Total Solids-extts
Data By: Woo suk Chang
Created: 8/ 7/10

Worklist: 713
Analyst: RVR
Comments:

Oven ID:_____

Balance ID:_____

Samples In: Date:_____ Time:_____ Temp:_____ Analyst:_____

Samples Out: Date:_____ Time:_____ Temp:_____ Analyst:_____

	ARI ID CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
14.	RG79P 10-18520 PSB15-17-19-073010	1.17	14.60	12.05	81.0	NR
15.	RG79Q 10-18521 PSB15-17-19-073010-D	1.16	11.80	10.46	87.4	NR

Extractions Total Solids-extts
Data By: Woo suk Chang
Created: 8/ 7/10

Worklist: 713
Analyst: WC
Comments:

Oven ID: 015

Balance ID: 24150193

Samples In: Date: 8/7/10 Time: 12220 Temp: 104 12:20 Analyst: WC

Samples Out: Date: 8/9/10 Time: 7:10 Temp: 104° Analyst: RR

	ARI ID / CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
1.	RG79A 10-18505 PSB11-0-0.5-073010	1.17g	11.65g	10.64		NR
2.	RG79B 10-18506 PSB11-1.5-2-073010	1.15g	11.62g	10.72		NR
3.	RG79C 10-18507 PSB11-2-4-073010	1.17g	12.31g	10.61		NR
4.	RG79D 10-18508 PSB11-2-4-073010-D	1.18g	11.46g	10.01		NR
5.	RG79E 10-18509 PSB11-4-6-073010	1.17g	14.14g	13.02		NR
6.	RG79G 10-18511 PSB11-11-13-073010	1.14	11.49	10.29		NR
7.	RG79H 10-18512 PSB11-14-16-073010	1.17	11.55	9.84		NR
8.	RG79I 10-18513 PSB11-23-24-073010	1.17	11.83	11.21		NR
9.	RG79K 10-18515 PSB15-0-0.5-073010	1.17	11.50	10.13		NR
10.	RG79L 10-18516 PSB15-1.5-2-073010	1.15g	11.93g	11.20		NR
11.	RG79M 10-18517 PSB15-2-4-073010	1.16g	12.07g	11.55		NR
12.	RG79N 10-18518 PSB15-4-6-073010	1.16g	11.54g	11.04		NR
13.	RG79O 10-18519 PSB15-13-15-073010	1.17g	13.02g	11.11		NR

Extractions Total Solids-extts
Data By: Woo suk Chang
Created: 8/ 7/10

Worklist: 713
Analyst: WC
Comments:

Oven ID:_____

Balance ID:_____

Samples In: Date:_____ Time:_____ Temp:_____ Analyst:_____

Samples Out: Date:_____ Time:_____ Temp:_____ Analyst:_____

	ARI ID CLIENT ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids	pH
14.	RG79P 10-18520 PSB15-17-19-073010	1.17	14.60	12.05		NR
15.	RG79Q 10-18521 PSB15-17-19-073010-D	1.16	11.80	10.46		NR

Solids Data Entry Report Checked by: DM Date: 8/9/10
Date: 08/09/10 Data Analyst: KM

Solids Determination performed on 08/06/10 by KM

JOB	SAMPLE	CLIENTID	TAREWEIGHT	SAMPDISH	DRYWEIGHT	SOLIDS
RG79	A	PSB11-0-0.5-073010	1.011	10.603	9.347	86.91
RG79	B	PSB11-1.5-2-073010	0.958	10.281	9.144	87.80
RG79	C	PSB11-2-4-073010	0.956	10.616	9.298	86.36
RG79	D	PSB11-2-4-073010-D	0.948	10.572	9.113	84.84
RG79	E	PSB11-4-6-073010	0.952	10.192	9.106	88.25
RG79	G	PSB11-11-13-073010	0.949	10.321	9.241	88.48
RG79	H	PSB11-14-16-073010	0.972	10.211	8.631	82.90
RG79	K	PSB15-0-0.5-073010	0.944	10.227	9.487	92.03
RG79	L	PSB15-1.5-2-073010	0.926	10.306	9.654	93.05
RG79	M	PSB15-2-4-073010	0.960	10.621	10.054	94.13
RG79	N	PSB15-4-6-073010	0.967	10.578	9.999	93.98
RG79	O	PSB15-13-15-073010	0.923	10.441	8.977	84.62
RG79	P	PSB15-17-19-073010	0.968	10.526	8.997	84.00
RG79	Q	PSB15-17-19-073010-	0.969	10.385	9.281	88.28

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Total Solids Bench Sheet

Laboratory Section Metals

Oven Identification: 07 **Balance ID:** 068755

Samples in Oven: Date: 8/06/10 Time: 1500 Temp: 102°C Analyst: KM

Removed from Oven: Date: 8/07/10 Time: 1255 Temp: 100°C Analyst: KM

Source of Total Solids Data If From A Different Lab: —

ARI Sample ID	Tare Weight (g)	Tare + Sample Wet (g)	Tare + Sample Dry (g)	Date & Time Last Weight	Final Weighting >12 hrs[1]
RG79 A	1.011	10.603	9.347	—	✓
" B	0.958	10.281	9.144	—	✓
" C	0.956	10.616	9.298	—	✓
" D	0.948	10.572	9.113	—	✓
" E	0.952	10.192	9.106	—	✓
" G	0.949	10.321	9.241	—	✓
" H	0.972	10.211	8.631	—	✓
" K	0.944	10.227	9.487	—	✓
" L	0.926	10.306	9.654	—	✓
" M	0.960	10.621	10.054	—	✓
" N	0.967	10.578	9.999	—	✓
" O	0.923	10.441	8.977	—	✓
" P	0.968	10.526	8.997	—	✓
" Q	0.969	10.385	9.281	—	✓
RH30 A	0.957	10.078	9.999	—	✓
" B	0.987	10.214	10.032	—	✓
" C	0.993	10.427	10.160	—	✓
		KM	8/06/10		

1) Place a check mark in this column if samples have dried > 12 but < 24 hours. When samples have been at 104°C < 12 hours, constant weight must be verified as described in SOP 10023S. Use a 2nd bench sheet for additional weightings.

Volatile Raw Data
Preparation Log

ARI Job ID: RG79

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Volatile Organics Extraction Bench Sheet

(8260B, 8260B-SIM, 8021, NWTPH-Gx, AK-101, TPH-G, VPH, TCLP-ZHE)

ARI Project No. RG79 | Client ID/Project | Extraction Date | MeOH Lot No. | Analyst

1st Extraction: | 2nd Extraction: | 11/5/10

	Lab ID	Vial No.	Preservative		Method 5035 Sample Weight					Comments
			$NaHSO_3$	CH_3OH	Vial Weight	Tare (from vial)	Sample Weight	Extract Volume	MeOH Spilt Volume	
	MB:									
	LCS:									
	LCSD:									
1	RG79 A	3	-		45.81	35.53	10.28			
2	B	3	-		44.91	35.40	9.51			
3	C	3			44.85	35.44	9.41			
4	D	3	-		45.86	35.53	10.33			
5	E	3	-		44.60	35.45	9.15			
6	G	2	-		44.42	35.43	8.99			
7	H	3	-		46.40	35.51	10.89			
8	J	1					Smv			
9	K	2			43.70	35.57	8.13			
10	L	2	-		42.90	35.53	7.27			
11	M	2	-		44.36	34.90	9.46			
12	N	1	-		45.88	35.36	10.52			
13	O	2	-		44.79	35.32	9.47			
14	P	2	-		42.48	31.224	11.251			
15	Q	2	-		46.40	35.54	10.86			
16	S	2					Smv			
17	Emy	6	-		43.96	35.33	8.63			
18	Emy	9			45.25	35.42	9.83			
19										
20										
	Balance ID:									

	Solution ID	Concentration	Amount Spiked	Analyst	Witness
Surrogate:					
Spike:					

RG79 : 98287

Volatile Raw Data
Initial Calibration Notes and Raw Data

ARI Job ID: RG79

Analytical Resources, Incorporated
Analytical Chemists and Consultants

VOA Analyst Notes / Corrective Action Log

ARI Project ID: FS ical Client ID: _____

ARI SOP: **404S**(Gas) **410S**(BTEX) **430S**(VPH) **700S**(8260C) **703S**(SIM) **706S**(524.2) **710S**(RSK-175)

Parameter(s): _____

Instrument: NT-3 NT-5 NT-7 NT-9 NT-10 PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 5 Curve Date: 7/23/10 Analysis Start Date: 7/23/10

pH ≤ 2.0	YES / NO / NA	Method Blank In Control?	YES / NO
BFB Tune Meets Criteria?	YES / NO / NA	LCS / LCSD Recovery In Control?	YES / NO
Internal Standard Meets Criteria?	YES / NO / NA	Surrogate Recovery In Control?	YES / NO
ICal acceptable?	YES / NO	CCal acceptable?	YES / NO
Q flag applied?	YES / NO / NA	Q flag applied?	YES / NO / NA
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	Yes /NO
Special Analysis Criteria Met?	YES / NO / NA		

Bubbles/Headspace: None SM (≤ 2mm •) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

ICV – bromoethane 124.8%R
1,2,4 TCB 75%R
1,2,3 TCB 76.7%R

all analytes averaged

Additional Details on Reverse: Yes / No

Analyst: _____ **Date:** 7/29/10

Reviewer: _____ **Date:** 7/29/10

Analytical Resources Inc.: Organics Instrument Log

FINN5 Serial No.: 5500-000421A

Date: 7/23/10 Analysis: 8260C Analyst: KP

GC Program: F5 Column No: 881724 Column Type: MTX-8021

Instrument Tune (.U or .CT.): DFTPP0723 EM Voltage: 1599

Calibration File: 200723 Curve Date: 7/23/10

IS/SS	Ical/Ccal	LCS/ICV
w 644-4	w 646-2	w 647-1
	w 646-3	~~w 647-~~ 1 6/feb

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/finn5.i/23JUL10.b

	Time	Filename	LabID	ClientID	WT								
1	0837	BFB0723.d	BFB0723	BFB0723	0.00								
2	1648	BFB07231.d	BFB0723	BFB0723	0.00								
3	1718	2000723.d	IC0723	VSTD200	5.00	6.62	159149	7.64	229095	10.79	171495	13.47	145587
4	1749	1500723.d	IC0723	VSTD150	5.00	6.62	155784	7.64	228573	10.78	178614	13.47	122904
5	1816	1000723.d	IC0723	VSTD100	5.00	6.62	135334	7.64	199732	10.78	160631	13.47	96340
6	1842	0500723.d	IC0723	VSTD050	5.00	6.62	131115	7.63	191559	10.78	161199	13.47	88279
7	1909	0100723.d	IC0723	VSTD010	5.00	6.62	118930	7.63	168271	10.78	140990	13.46	72150
8	1935	0050723.d	IC0723	VSTD005	5.00	6.62	117041	7.63	170929	10.78	146260	13.46	75761
9	2002	0020723.d	IC0723	VSTD002	5.00	6.62	125854	7.63	165926	10.78	143906	13.47	73251
10	2028	0010723.d	IC0723	VSTD001	5.00	6.61	113813	7.63	168346	10.77	142296	13.46	71616
11	2214	ICV0723.d	ICV0723	ICV0723	5.00	6.62	130699	7.64	194200	10.78	160989	13.47	90026

7/26/10

Maintenance / Comments

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.

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem1/finn5.i/23JUL10.b

ARI Job No.: BFB0 Method: bfb8260.m Instrument: finn5.i Date: 23-JUL-2010

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1648	BFB07231.d	BFB0723	BFB0723	1	NO MANUAL INTEGRATION
1718	2000723.d	IC0723	VSTD200	1	NO MANUAL INTEGRATION
1749	1500723.d	IC0723	VSTD150	1	NO MANUAL INTEGRATION
1816	1000723.d	IC0723	VSTD100	1	NO MANUAL INTEGRATION
1842	0500723.d	IC0723	VSTD050	1	NO MANUAL INTEGRATION
1909	0100723.d	IC0723	VSTD010	1	NO MANUAL INTEGRATION
1935	0050723.d	IC0723	VSTD005	1	2-Hexanone, Trans-1,4-Dichloro 2-Butene,
2002	0020723.d	IC0723	VSTD002	1	Acetone, 2-Hexanone, 1,2,3-Trichloropropane, Trans-1,4-Dichloro 2-Butene,
2028	0010723.d	IC0723	VSTD001	1	Acetone, 1,1,1-Trichloroethane, 2-Hexanone, 1,1,2,2-Tetrachloroethane, 1,2,3-Trichloropropane, Trans-1,4-Dichloro 2-Butene,
2214	ICV0723.d	ICV0723	ICV0723	1	NO MANUAL INTEGRATION

Data File: /chem1/finn5.i/23JUL10.b/BFB07231.d

Date : 23-JUL-2010 16:48

Client ID: BFB0723

Instrument: finn5.i

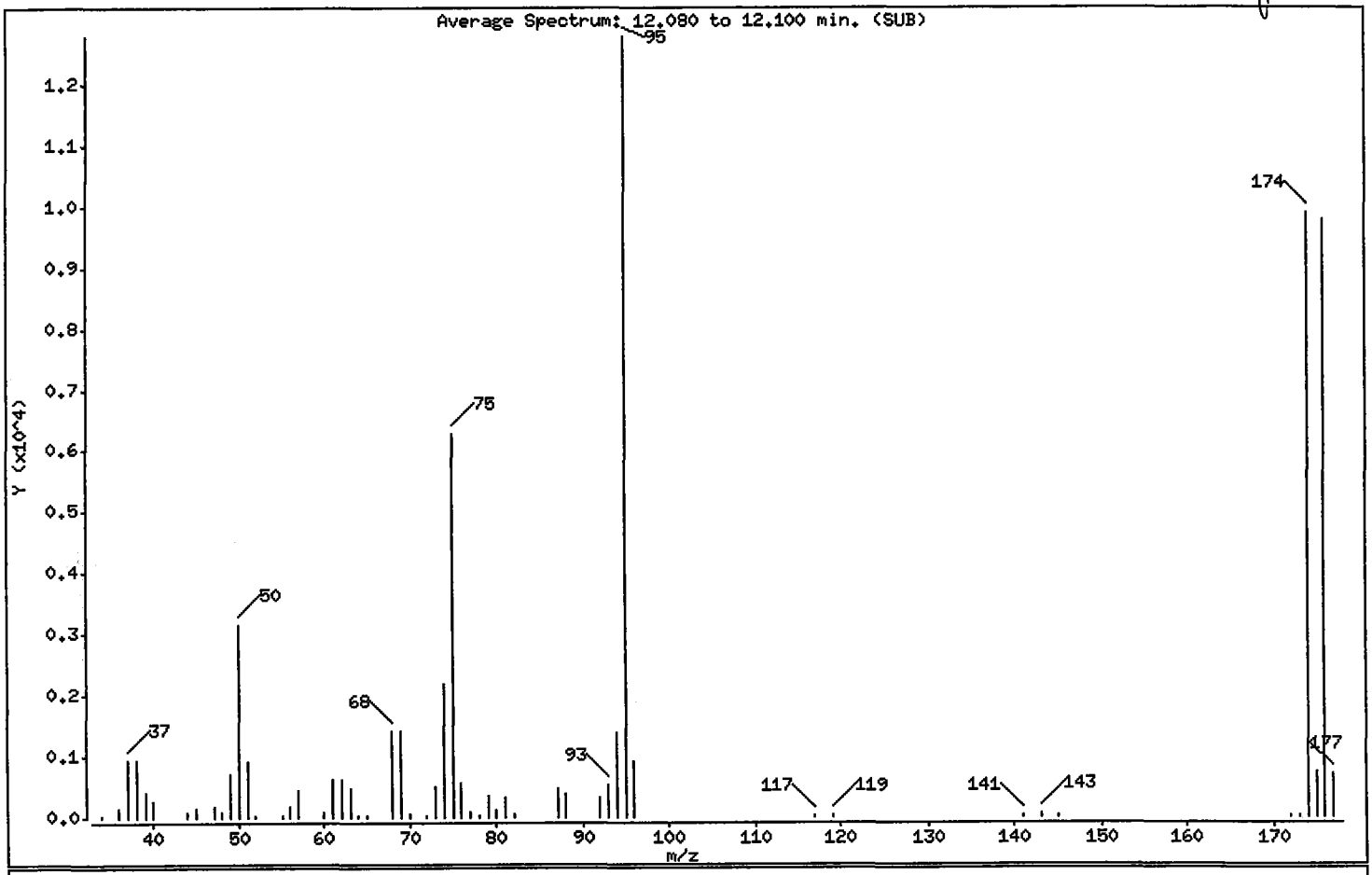
Sample Info: BFB0723,BFB0723,,1,23JUL10,,

Operator: PB

Column phase: RTX502.2

Column diameter: 0.18

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	24.73
75	30.00 - 66.00% of mass 95	49.06
96	5.00 - 9.00% of mass 95	7.07
173	Less than 2.00% of mass 174	0.16 (0.21)
174	50.00 - 101.00% of mass 95	77.38
175	4.00 - 9.00% of mass 174	5.70 (7.37)
176	93.00 - 101.00% of mass 174	76.42 (98.77)
177	5.00 - 9.00% of mass 176	5.51 (7.21)

Data File: /chem1/finn5.i/23JUL10.b/BFB07231.d

Date : 23-JUL-2010 16:48

Client ID: BFB0723

Instrument: finn5.i

Sample Info: BFB0723,BFB0723,,1,23JUL10,,

Operator: PB

Column phase: RTX502.2

Column diameter: 0.18

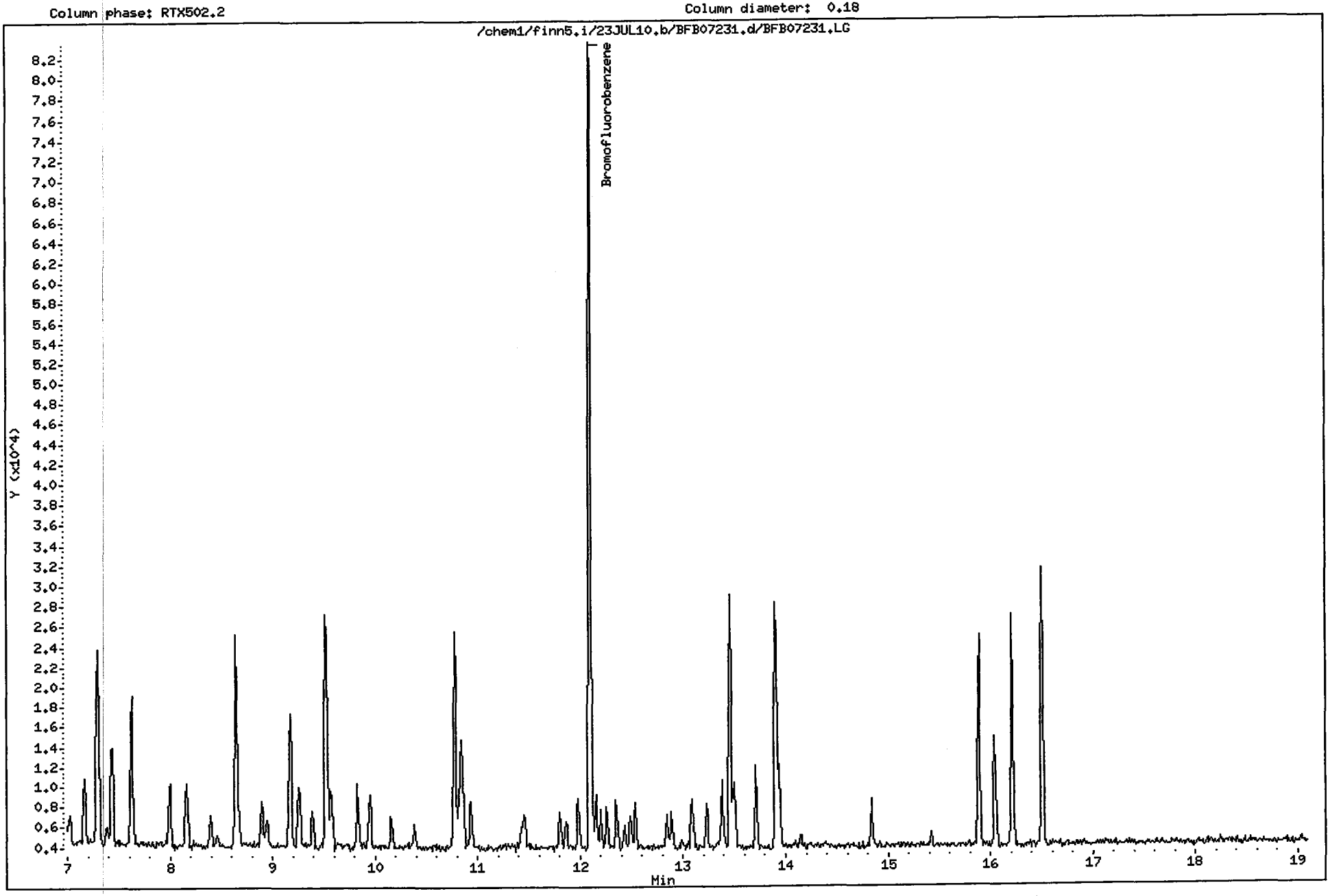
Data File: BFB07231.d
Spectrum: Average Spectrum: 12.080 to 12.100 min. (SUB)
Location of Maximum: 95.00
Number of points: 55

m/z	Y	m/z	Y	m/z	Y	m/z	Y
34.00	41	55.00	28	74.00	2174	95.00	12792
36.00	159	56.00	184	75.00	6276	96.00	905
37.00	938	57.00	440	76.00	565	117.00	17
38.00	936	60.00	91	77.00	77	119.00	25
39.00	400	61.00	624	78.00	18	141.00	28
40.00	260	62.00	625	79.00	363	143.00	45
44.00	96	63.00	460	80.00	109	145.00	24
45.00	144	64.00	38	81.00	331	172.00	26
47.00	178	65.00	22	82.00	62	173.00	21
48.00	81	68.00	1416	87.00	469	174.00	9898
49.00	708	69.00	1407	88.00	387	175.00	729
50.00	3164	70.00	64	92.00	317	176.00	9776
51.00	905	72.00	18	93.00	542	177.00	705
52.00	33	73.00	511	94.00	1387		

Data File: /chem1/finn5.i/23JUL10.b/BFB07231.d
Date : 23-JUL-2010 16:48
Client ID: BFB0723
Sample Info: BFB0723,BFB0723,,1,23JUL10,,

Instrument: finn5.i
Operator: PB
Column diameter: 0.18

Column phase: RTX502.2



RG79:09231

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 17:18
End Cal Date : 23-JUL-2010 20:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/23JUL10.b/s8260b.m
Cal Date : 26-Jul-2010 09:12 patrickb
Curve Type : Average

Calibration File Names:
Level 1: /chem1/finn5.i/23JUL10.b/0010723.d
Level 2: /chem1/finn5.i/23JUL10.b/0020723.d
Level 3: /chem1/finn5.i/23JUL10.b/0050723.d
Level 4: /chem1/finn5.i/23JUL10.b/0100723.d
Level 5: /chem1/finn5.i/23JUL10.b/0500723.d
Level 6: /chem1/finn5.i/23JUL10.b/1000723.d
Level 7: /chem1/finn5.i/23JUL10.b/1500723.d
Level 8: /chem1/finn5.i/23JUL10.b/2000723.d

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD	
	150.000 Level 7	200.000 Level 8							
1 Dichlorodifluoromethane	0.61856	0.69160	0.65985	0.63344	0.67493	0.67442			
	0.63254	0.60144					0.64835	4.860	
2 Chloromethane	2.15529	1.96152	1.91728	2.00912	1.65244	1.56576			
	1.38789	1.30591					1.74440	17.810	
3 Vinyl Chloride	1.51916	1.45247	1.51314	1.59745	1.36296	1.35754			
	1.17136	1.06143					1.37944	13.295	
4 Bromomethane	0.93443	0.85086	0.77665	0.62524	0.81039	0.76904			
	0.64701	0.57949					0.74914	16.282	
181 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
5 Chloroethane	1.07062	1.09297	0.98777	0.87106	0.87644	0.77822			
	0.62883	+++++					0.90084	18.341	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 17:18
End Cal Date : 23-JUL-2010 20:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/23JUL10.b/s8260b.m
Cal Date : 26-Jul-2010 09:12 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
	150.000 Level 7	200.000 Level 8						
6 Trichlorofluoromethane	1.47611	1.55864	1.50469	1.41033	1.42641	1.27999		
	1.04222	0.96730					1.33321	16.450
7 Acrolein	0.20463	0.19693	0.17700	0.16354	0.15712	0.14591		
	0.11901	+++++					0.16631	17.814
8 112Trichloro122Trifluoroethan	1.27446	1.18209	1.20394	1.12348	1.01422	0.97608		
	0.81784	0.75797					1.04376	17.834
9 Acetone	0.30796	0.31971	0.31370	0.30116	0.26843	0.24372		
	0.20402	+++++					0.27982	15.417
10 1,1-Dichloroethene	1.03591	1.01895	1.04143	1.03174	0.97906	0.93375		
	0.79718	0.73915					0.94715	12.366
11 Bromoethane	0.70730	0.74361	0.72880	0.75267	0.72730	0.72722		
	0.63319	0.59114					0.70140	8.233
12 Iodomethane	1.01087	1.06621	1.14259	1.14012	1.25306	1.25553		
	1.06567	1.02480					1.11986	8.526
13 Methylene Chloride	+++++	1.39659	1.18975	1.12760	0.93514	0.92898		
	0.82084	+++++					1.06648	19.864
14 Acrylonitrile	0.19594	0.24276	0.28315	0.28492	0.26101	0.25835		
	0.23046	0.21983					0.24705	12.529

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 17:18
End Cal Date : 23-JUL-2010 20:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/23JUL10.b/s8260b.m
Cal Date : 26-Jul-2010 09:12 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD	
	150.000 Level 7	200.000 Level 8							
16 Methyl tert-Butyl Ether	1.39176	1.48204	1.61653	1.63134	1.52463	1.54183			
	1.31326	1.15084					1.45653	11.218	
15 Carbon Disulfide	3.37220	3.30955	3.39522	3.28180	3.17583	2.86693			
	2.18562	1.91323					2.93755	19.647	
17 Trans-1,2-Dichloroethene	0.81493	0.82496	0.80638	0.89481	0.79365	0.83461			
	0.76581	0.72223					0.80717	6.268	
18 Vinyl Acetate	1.37858	1.47513	1.52895	1.55974	1.56063	1.55351			
	1.19699	1.05617					1.41371	13.515	
19 1,1-Dichloroethane	1.59340	1.57720	1.61593	1.67405	1.53370	1.56119			
	1.25502	1.06889					1.48492	14.111	
179 Hexane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
20 2-Butanone	0.32659	0.32955	0.34359	0.35332	0.32770	0.32306			
	0.26832	0.24668					0.31485	11.826	
21 2,2-Dichloropropane	0.88742	0.89660	0.93309	0.95140	0.91310	0.95603			
	0.87622	0.85519					0.90863	3.989	
22 Cis-1,2-Dichloroethene	0.70291	0.70218	0.71753	0.75872	0.69175	0.74171			
	0.68699	0.68958					0.71142	3.685	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 17:18
End Cal Date : 23-JUL-2010 20:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/23JUL10.b/s8260b.m
Cal Date : 26-Jul-2010 09:12 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	150.000 Level 7	200.000 Level 8	___ RRF	% RSD	
24 Chloroform	1.24898	1.29560	1.31578	1.31952	1.20276	1.23393	1.07329	0.95949	1.20617	10.579	
26 Bromochloromethane	0.30137	0.32304	0.36688	0.35714	0.33542	0.35133	0.33200	0.33497	0.33777	6.124	
27 1,1,1-Trichloroethane	0.97660	0.93458	0.97291	0.98520	0.93283	0.96160	0.87853	0.86280	0.93813	4.889	
182 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
29 1,1-Dichloropropene	0.66975	0.69007	0.71193	0.76499	0.67325	0.69499	0.63130	0.59559	0.67899	7.511	
30 Carbon Tetrachloride	0.58124	0.62407	0.60370	0.63020	0.57050	0.59224	0.55109	0.57045	0.59044	4.670	
32 1,2-Dichloroethane	0.57115	0.62874	0.63301	0.67822	0.58611	0.59776	0.54427	0.52926	0.59607	8.280	
33 Benzene	1.75947	1.76841	1.80022	1.96537	1.65649	1.45472	1.08835	+++++	1.64186	17.603	
180 Isooctane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 17:18
End Cal Date : 23-JUL-2010 20:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/23JUL10.b/s8260b.m
Cal Date : 26-Jul-2010 09:12 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD	
	150.000 Level 7	200.000 Level 8							
35 Trichloroethene	0.43601	0.49962	0.50986	0.54002	0.46846	0.48511			
	0.44820	0.46107					0.48104	7.173	
36 1,2-Dichloropropane	0.52451	0.52147	0.54818	0.58228	0.50133	0.51755			
	0.47045	0.47472					0.51756	7.121	
38 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
37 Bromodichloromethane	0.52125	0.59258	0.58170	0.60376	0.54255	0.55496			
	0.51592	0.51411					0.55335	6.471	
39 Dibromomethane	0.25305	0.25915	0.25993	0.28772	0.24894	0.26038			
	0.23699	0.24918					0.25692	5.717	
40 2-Chloroethyl Vinyl Ether	+++++	0.14178	0.17329	0.18981	0.18519	0.19380			
	0.18677	0.19813					0.18125	10.524	
41 4-Methyl-2-Pentanone	0.14149	0.13693	0.13232	0.14268	0.13289	0.13206			
	0.12187	0.11715					0.13218	6.720	
42 Cis 1,3-dichloropropene	0.50313	0.56652	0.59990	0.66027	0.63768	0.67623			
	0.61950	0.56997					0.60415	9.387	
28 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 17:18
End Cal Date : 23-JUL-2010 20:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/23JUL10.b/s8260b.m
Cal Date : 26-Jul-2010 09:12 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
	150.000 Level 7	200.000 Level 8						
44 Toluene	1.25664	1.10456	1.02224	1.05184	0.92146	0.94617		
	0.78347	0.70675					0.97414	18.057
45 Trans 1,3-Dichloropropene	0.44640	0.47190	0.49114	0.54059	0.52142	0.55921		
	0.52387	0.50804					0.50782	7.254
46 2-Hexanone	0.48863	0.41802	0.40375	0.43814	0.38146	0.32234		
	+++++	+++++					0.40872	13.652
47 1,1,2-Trichloroethane	0.26879	0.29516	0.32288	0.33895	0.29564	0.30800		
	0.29114	0.30558					0.30327	6.989
48 1,3-Dichloropropane	0.68343	0.71401	0.71469	0.75583	0.67765	0.72373		
	0.67642	0.68404					0.70372	4.007
49 Tetrachloroethene	0.61667	0.52708	0.56488	0.56674	0.48964	0.54556		
	0.54309	0.59035					0.55550	6.995
50 Chlorodibromomethane	0.42693	0.43952	0.46540	0.50238	0.45273	0.49329		
	0.47878	0.52825					0.47341	7.173
51 1,2-Dibromoethane	0.30087	0.32786	0.33839	0.34926	0.32203	0.32796		
	0.30873	0.32362					0.32484	4.715
53 Chlorobenzene	1.44874	1.25551	1.21469	1.28463	1.09325	1.17322		
	0.98203	0.92990					1.17275	14.376

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 17:18
End Cal Date : 23-JUL-2010 20:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/23JUL10.b/s8260b.m
Cal Date : 26-Jul-2010 09:12 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
	150.000 Level 7	200.000 Level 8						
55 1,1,1,2-Tetrachloroethane	0.48807	0.46350	0.43819	0.45358	0.38926	0.42774		
	0.43874	0.49165					0.44884	7.446
54 Ethyl Benzene	2.20280	2.17625	2.08813	2.26814	2.02082	1.78412		
	1.34210	+++++					1.98319	16.336
56 m,p-xylene	0.68572	0.70089	0.75629	0.82054	0.76759	0.80414		
	0.64714	0.61656					0.72486	10.182
57 o-Xylene	0.59735	0.67179	0.70053	0.77321	0.74982	0.84040		
	0.82834	0.86537					0.75335	12.283
58 Styrene	1.01338	1.04252	1.15090	1.32066	1.22803	1.34186		
	1.12721	1.09402					1.16482	10.471
59 Isopropyl Benzene	3.58090	3.46378	3.66983	4.08053	3.63628	3.05286		
	2.07611	+++++					3.36576	19.154
60 Bromoform	0.58786	0.56177	0.56335	0.58351	0.52086	0.53868		
	0.49959	0.47363					0.54116	7.521
61 1,1,2,2-Tetrachloroethane	1.19875	1.12388	1.03602	1.12613	0.91700	0.89056		
	0.77962	0.70704					0.97237	18.199
63 1,2,3-Trichloropropane	+++++	0.22594	0.22109	0.22654	0.18550	0.18274		
	0.16039	0.14626					0.19264	16.965

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 17:18
End Cal Date : 23-JUL-2010 20:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/23JUL10.b/s8260b.m
Cal Date : 26-Jul-2010 09:12 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
	150.000 Level 7	200.000 Level 8						
65 Trans-1,4-Dichloro 2-Butene	+++++	0.32184	0.32576	0.34893	0.30143	0.29907		
	0.25759	0.23740					0.29886	13.135
66 N-Propyl Benzene	4.35587	4.36240	4.59339	5.13243	4.29164	3.33374		
	+++++	+++++					4.34491	13.450
67 Bromobenzene	0.97674	0.93719	0.97174	1.05787	0.91718	0.95651		
	0.87178	0.81723					0.93828	7.723
68 1,3,5-Trimethyl Benzene	2.66281	2.66686	2.91760	3.22571	2.99783	2.73312		
	1.92105	+++++					2.73214	15.058
69 2-Chloro Toluene	3.12291	2.80576	3.07335	3.37221	2.80971	2.82080		
	1.97970	+++++					2.85492	15.393
70 4-Chloro Toluene	2.62581	2.91088	2.87998	3.29757	2.95871	2.62567		
	1.85746	+++++					2.73658	16.426
71 T-Butyl Benzene	2.25508	2.38597	2.57296	2.86417	2.63858	2.56035		
	1.95835	1.46344					2.33736	19.065
72 1,2,4-Trimethylbenzene	2.43800	2.54502	2.85134	3.25960	2.94781	2.80039		
	1.98513	+++++					2.68961	15.258
73 S-Butyl Benzene	3.65072	3.68903	3.98398	4.45398	4.03139	3.26306		
	+++++	+++++					3.84536	10.568

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/23JUL10.b/s8260b.m
Cal Date : 26-Jul-2010 09:12 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	150.000 Level 7	200.000 Level 8	___ RRF	% RSD	
74 4-Isopropyl Toluene	2.22576	2.54160	2.82348	3.17997	2.94657	2.74678	2.00557	+++++	2.63853	15.583	
75 1,3-Dichlorobenzene	1.56180	1.53308	1.67395	1.91240	1.64575	1.80399	1.47885	1.21428	1.60301	13.256	
64 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
77 1,4-Dichlorobenzene	1.65466	1.57267	1.70259	1.83867	1.59685	1.77492	1.48449	1.20781	1.60408	12.218	
178 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
78 N-Butyl Benzene	2.81013	2.76549	3.04510	3.43035	3.10253	2.84626	1.94473	+++++	2.84923	16.127	
80 1,2-Dichlorobenzene	1.53737	1.60237	1.63752	1.74962	1.51750	1.58654	1.40066	1.15636	1.52349	11.753	
81 1,2-Dibromo 3-Chloropropane	0.15220	0.20921	0.18954	0.20055	0.17137	0.15806	0.13717	0.12795	0.16826	17.597	
82 1,2,4-Trichlorobenzene	0.96487	1.01671	0.97082	1.12640	0.86020	0.91319	0.82523	0.73938	0.92710	12.980	

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-JUL-2010 17:18
End Cal Date : 23-JUL-2010 20:28
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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem1/finn5.i/23JUL10.b/s8260b.m
Cal Date : 26-Jul-2010 09:12 patrickb
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
	150.000 Level 7	200.000 Level 8						
83 Hexachloro 1,3-Butadiene	0.58506	0.68805	0.68940	0.75107	0.58913	0.59714		
	0.55357	0.54187					0.62441	12.059
84 Naphthalene	1.71610	1.75595	1.74219	2.09362	1.61770	1.55845		
	1.28695	+++++					1.68157	14.468
85 1,2,3-Trichlorobenzene	0.96068	1.02012	0.96026	1.13604	0.80895	0.82225		
	0.73656	0.64602					0.88636	18.168
$ 25 Dibromofluoromethane	0.64899	0.62877	0.61356	0.58619	0.59870	0.58643		
	0.57172	0.53307					0.59593	5.995
$ 31 d4-1,2-Dichloroethane	0.71761	0.70471	0.68731	0.64625	0.64321	0.64102		
	0.61687	0.55964					0.65208	7.847
$ 43 d8-Toluene	1.12329	1.14949	1.12157	1.10618	1.11356	1.07971		
	1.04839	1.04692					1.09864	3.363
$ 62 4-Bromofluorobenzene	0.54956	0.55666	0.55779	0.55088	0.56658	0.59164		
	0.61336	0.69489					0.58517	8.478
$ 79 d4-1,2-Dichlorobenzene	0.92905	0.92027	0.92025	0.92575	0.92529	0.90255		
	0.87965	0.87290					0.90947	2.425

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Batch File: /chem1/finn5.i/23JUL10.b
Inst ID: finn5.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08
FILENAME:	2000723	1500723	1000723	0500723	0100723	0050723	0020723	0010723
INJ.DATE:	23-JUL-2010	23-JUL-2010	23-JUL-2010	23-JUL-2010	23-JUL-2010	23-JUL-2010	23-JUL-2010	23-JUL-2010
INJ.TIME:	17:18	17:49	18:16	18:42	19:09	19:35	20:02	20:28

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Dichlorodifluoromethan	3.015	3.015	3.005	3.005	3.005	3.005	3.005	2.995	3.015	2.750-3.280	3.006	0.006
2 Chloromethane	3.316	3.316	3.306	3.306	3.306	3.296	3.306	3.296	3.316	3.051-3.581	3.306	0.008
3 Vinyl Chloride	3.417	3.417	3.417	3.417	3.407	3.417	3.427	3.417	3.417	3.152-3.682	3.417	0.005
4 Bromomethane	3.909	3.909	3.909	3.909	3.899	3.899	3.909	3.899	3.909	3.644-4.174	3.906	0.005
181 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.500	4.235-4.765	+++++	+++++
5 Chloroethane	3.980	3.980	3.980	3.980	3.970	3.970	3.980	3.970	3.980	3.715-4.245	3.976	0.005
6 Trichlorofluoromethane	4.241	4.241	4.241	4.241	4.231	4.231	4.241	4.231	4.241	3.976-4.506	4.237	0.005
7 Acrolein	4.633	4.633	4.633	4.623	4.623	4.623	4.623	4.623	4.633	4.368-4.898	4.627	0.005
8 112Trichloro122Trifluo	4.643	4.643	4.643	4.633	4.633	4.633	4.643	4.633	4.643	4.378-4.908	4.638	0.005
9 Acetone	4.693	4.683	4.683	4.673	4.673	4.673	4.673	4.673	4.693	4.428-4.958	4.678	0.008
10 1,1-Dichloroethene	4.844	4.844	4.834	4.834	4.834	4.834	4.834	4.834	4.844	4.579-5.109	4.837	0.005
11 Bromoethane	5.055	5.055	5.055	5.055	5.055	5.045	5.055	5.055	5.055	4.790-5.320	5.054	0.004
12 Iodomethane	5.156	5.156	5.156	5.156	5.146	5.146	5.156	5.146	5.156	4.891-5.421	5.152	0.005
13 Methylene Chloride	5.276	5.276	5.276	5.266	5.266	5.266	5.266	5.266	5.276	5.011-5.541	5.270	0.005
14 Acrylonitrile	5.367	5.357	5.357	5.357	5.357	5.347	5.347	5.347	5.367	5.102-5.632	5.354	0.007
16 Methyl tert-Butyl Ethe	5.407	5.397	5.397	5.397	5.397	5.387	5.397	5.387	5.407	5.142-5.672	5.396	0.006
15 Carbon Disulfide	5.377	5.377	5.377	5.377	5.367	5.367	5.377	5.367	5.377	5.112-5.642	5.373	0.005

Reviewer 1 _____ Date: 7/29/10
Reviewer 2 _____ Date: _____

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Batch File: /chem1/finn5.i/23JUL10.b
Inst ID: finn5.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	17 Trans-1,2-Dichloroethe	5.558	5.558	5.558	5.558	5.548	5.548	5.558	5.548	5.558	5.293-5.822	5.554	0.005
	18 Vinyl Acetate	5.879	5.879	5.879	5.879	5.869	5.869	5.879	5.869	5.879	5.614-6.144	5.875	0.005
	19 1,1-Dichloroethane	5.940	5.940	5.940	5.940	5.929	5.929	5.929	5.929	5.940	5.675-6.204	5.935	0.005
	179 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.990	5.725-6.255	+++++	+++++
	20 2-Butanone	6.291	6.281	6.281	6.281	6.281	6.271	6.281	6.271	6.291	6.026-6.556	6.280	0.006
	21 2,2-Dichloropropane	6.462	6.462	6.462	6.452	6.452	6.452	6.452	6.442	6.462	6.197-6.727	6.455	0.007
	22 Cis-1,2-Dichloroethene	6.502	6.502	6.492	6.492	6.492	6.492	6.492	6.482	6.502	6.237-6.767	6.494	0.006
*	23 Pentafluorobenzene	6.623	6.623	6.623	6.623	6.623	6.623	6.623	6.613	6.623	6.358-6.888	6.622	0.004
	24 Chloroform	6.643	6.643	6.643	6.643	6.633	6.633	6.643	6.633	6.643	6.378-6.908	6.639	0.005
	26 Bromochloromethane	6.814	6.814	6.804	6.804	6.804	6.804	6.804	6.794	6.814	6.549-7.079	6.805	0.006
$	25 Dibromofluoromethane	6.844	6.844	6.844	6.844	6.834	6.834	6.834	6.834	6.844	6.579-7.109	6.839	0.005
	27 1,1,1-Trichloroethane	7.035	7.035	7.035	7.025	7.025	7.025	7.025	7.015	7.035	6.770-7.300	7.027	0.007
	182 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.030	7.765-8.295	+++++	+++++
	29 1,1-Dichloropropene	7.176	7.176	7.176	7.176	7.166	7.166	7.176	7.166	7.176	6.870-7.481	7.172	0.005
$	31 d4-1,2-Dichloroethane	7.306	7.306	7.306	7.306	7.296	7.296	7.306	7.296	7.306	7.041-7.571	7.303	0.005
	30 Carbon Tetrachloride	7.296	7.296	7.286	7.286	7.286	7.286	7.286	7.286	7.296	6.991-7.602	7.289	0.005
	32 1,2-Dichloroethane	7.397	7.397	7.397	7.387	7.387	7.387	7.387	7.387	7.397	7.091-7.702	7.391	0.005
	33 Benzene	7.447	7.447	7.447	7.437	7.437	7.437	7.437	7.427	7.447	7.141-7.752	7.439	0.007
	180 Isooctane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.687	6.422-6.952	+++++	+++++
*	34 1,4-Difluorobenzene	7.638	7.638	7.638	7.628	7.628	7.628	7.628	7.628	7.638	7.332-7.944	7.632	0.005
	35 Trichloroethene	8.010	8.010	8.010	8.000	8.000	8.000	8.010	8.000	8.010	7.704-8.315	8.005	0.005
	36 1,2-Dichloropropane	8.171	8.171	8.171	8.171	8.161	8.161	8.161	8.161	8.171	7.865-8.476	8.166	0.005

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Report Date : 29-Jul-2010 14:28

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Batch File: /chem1/finn5.i/23JUL10.b
Inst ID: finn5.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	38 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.887	8.622-9.152	+++++	+++++
	37 Bromodichloromethane	8.412	8.402	8.402	8.402	8.402	8.392	8.402	8.392	8.412	8.106-8.717	8.401	0.006
	39 Dibromomethane	8.472	8.472	8.472	8.472	8.472	8.462	8.472	8.462	8.472	8.167-8.778	8.470	0.005
	40 2-Chloroethyl Vinyl Et	8.623	8.623	8.623	8.613	8.613	8.613	8.613	8.613	8.623	8.317-8.928	8.617	0.005
	41 4-Methyl-2-Pentanone	8.663	8.653	8.653	8.653	8.653	8.643	8.653	8.643	8.663	8.357-8.969	8.652	0.006
	42 Cis 1,3-dichloropropen	8.914	8.914	8.904	8.904	8.904	8.904	8.904	8.894	8.914	8.609-9.220	8.906	0.006
	28 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.337	7.072-7.602	+++++	+++++
$	43 d8-Toluene	9.186	9.186	9.186	9.186	9.176	9.176	9.186	9.176	9.186	8.880-9.491	9.182	0.005
	44 Toluene	9.276	9.266	9.266	9.266	9.266	9.256	9.266	9.256	9.276	8.971-9.582	9.265	0.006
	45 Trans 1,3-Dichloroprop	9.407	9.397	9.397	9.397	9.397	9.387	9.397	9.387	9.407	9.101-9.712	9.395	0.006
	46 2-Hexanone	9.537	9.537	9.527	9.527	9.527	9.527	9.527	9.527	9.537	9.106-9.969	9.530	0.005
	47 1,1,2-Trichloroethane	9.588	9.578	9.578	9.578	9.578	9.578	9.578	9.568	9.588	9.282-9.893	9.578	0.005
	48 1,3-Dichloropropane	9.839	9.839	9.839	9.839	9.829	9.829	9.839	9.829	9.839	9.407-10.270	9.835	0.005
	49 Tetrachloroethene	9.960	9.960	9.960	9.960	9.949	9.949	9.960	9.949	9.960	9.528-10.391	9.956	0.005
	50 Chlorodibromomethane	10.171	10.171	10.161	10.161	10.161	10.161	10.161	10.161	10.171	9.739-10.602	10.163	0.005
	51 1,2-Dibromoethane	10.392	10.392	10.392	10.392	10.382	10.382	10.382	10.382	10.392	10.086-10.697	10.387	0.005
*	52 d5-Chlorobenzene	10.794	10.784	10.784	10.784	10.784	10.784	10.784	10.774	10.794	10.362-11.225	10.784	0.005
	53 Chlorobenzene	10.834	10.834	10.824	10.824	10.824	10.824	10.824	10.814	10.834	10.402-11.266	10.825	0.006
	55 1,1,1,2-Tetrachloroeth	10.864	10.854	10.854	10.854	10.844	10.844	10.854	10.844	10.864	10.432-11.296	10.851	0.007
	54 Ethyl Benzene	10.864	10.864	10.864	10.854	10.854	10.854	10.854	10.854	10.864	10.432-11.296	10.858	0.005
	56 m,p-xylene	10.944	10.944	10.944	10.934	10.934	10.934	10.934	10.934	10.944	10.512-11.376	10.938	0.005
	57 o-Xylene	11.437	11.437	11.427	11.427	11.427	11.427	11.427	11.417	11.437	11.005-11.869	11.428	0.006
	58 Styrene	11.467	11.467	11.457	11.457	11.457	11.457	11.457	11.447	11.467	11.035-11.899	11.458	0.006
	59 Isopropyl Benzene	11.819	11.809	11.809	11.809	11.809	11.799	11.809	11.799	11.819	11.280-12.357	11.807	0.006

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Batch File: /chem1/finn5.i/23JUL10.b
Inst ID: finn5.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	60 Bromoform	11.879	11.869	11.869	11.869	11.869	11.859	11.869	11.859	11.879	11.340-12.418	11.868	0.006
	61 1,1,2,2-Tetrachloroeth	11.990	11.990	11.990	11.990	11.980	11.980	11.990	11.980	11.990	11.451-12.528	11.986	0.005
$	62 4-Bromofluorobenzene	12.110	12.110	12.110	12.100	12.100	12.100	12.100	12.100	12.110	11.678-12.542	12.104	0.005
	63 1,2,3-Trichloropropane	12.160	12.160	12.160	12.150	12.150	12.150	12.150	12.150	12.160	11.622-12.699	12.154	0.005
	65 Trans-1,4-Dichloro 2-B	12.211	12.211	12.211	12.211	12.201	12.201	12.201	12.191	12.211	11.672-12.749	12.204	0.007
	66 N-Propyl Benzene	12.271	12.271	12.261	12.261	12.261	12.261	12.261	12.251	12.271	11.732-12.810	12.262	0.006
	67 Bromobenzene	12.361	12.351	12.351	12.351	12.351	12.341	12.351	12.341	12.361	11.823-12.900	12.350	0.006
	68 1,3,5-Trimethyl Benzen	12.442	12.442	12.432	12.432	12.432	12.432	12.432	12.422	12.442	11.903-12.980	12.433	0.006
	69 2-Chloro Toluene	12.502	12.502	12.492	12.492	12.492	12.492	12.492	12.482	12.502	11.963-13.041	12.493	0.006
	70 4-Chloro Toluene	12.552	12.542	12.542	12.532	12.532	12.532	12.532	12.532	12.552	12.014-13.091	12.537	0.008
	71 T-Butyl Benzene	12.854	12.854	12.844	12.844	12.844	12.844	12.844	12.834	12.854	12.315-13.392	12.845	0.006
	72 1,2,4-Trimethylbenzene	12.904	12.894	12.894	12.894	12.894	12.884	12.894	12.884	12.904	12.365-13.443	12.893	0.006
	73 S-Butyl Benzene	13.095	13.095	13.095	13.095	13.085	13.085	13.085	13.085	13.095	12.556-13.634	13.090	0.005
	74 4-Isopropyl Toluene	13.246	13.246	13.236	13.236	13.236	13.236	13.236	13.226	13.246	12.707-13.784	13.237	0.006
	75 1,3-Dichlorobenzene	13.397	13.387	13.387	13.387	13.387	13.377	13.387	13.377	13.397	12.858-13.935	13.385	0.006
	64 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.768	13.336-14.200	+++++	+++++
*	76 d4-1,4-Dichlorobenzene	13.467	13.467	13.467	13.467	13.457	13.457	13.467	13.457	13.467	12.928-14.006	13.463	0.005
	77 1,4-Dichlorobenzene	13.507	13.507	13.507	13.497	13.497	13.497	13.497	13.497	13.507	12.968-14.046	13.501	0.005
	178 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.100	13.561-14.639	+++++	+++++
	78 N-Butyl Benzene	13.728	13.718	13.718	13.718	13.708	13.708	13.718	13.708	13.728	13.190-14.267	13.716	0.007
$	79 d4-1,2-Dichlorobenzene	13.919	13.909	13.909	13.909	13.909	13.909	13.909	13.899	13.919	13.380-14.458	13.909	0.005
	80 1,2-Dichlorobenzene	13.949	13.949	13.949	13.939	13.939	13.939	13.939	13.929	13.949	13.411-14.488	13.942	0.007
	81 1,2-Dibromo 3-Chloropr	14.854	14.854	14.844	14.844	14.844	14.844	14.844	14.834	14.854	14.315-15.393	14.845	0.006

RCT9 : 09356

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Batch File: /chem1/finn5.i/23JUL10.b
Inst ID: finn5.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
82 1,2,4-Trichlorobenzene	15.899	15.899	15.899	15.889	15.889	15.889	15.889	15.889	15.899	15.360-16.438	15.893	0.005
83 Hexachloro 1,3-Butadie	16.050	16.050	16.050	16.050	16.040	16.040	16.040	16.040	16.050	15.511-16.588	16.045	0.005
84 Naphthalene	16.231	16.221	16.221	16.221	16.221	16.211	16.221	16.211	16.231	15.692-16.769	16.219	0.006
85 1,2,3-Trichlorobenzene	16.512	16.512	16.512	16.512	16.502	16.502	16.502	16.492	16.512	15.973-17.051	16.506	0.007

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/23JUL10.b/0010723.d
Lab Smp Id: IC0723 Client Smp ID: VSTD001
Inj Date : 23-JUL-2010 20:28
Operator : PB Inst ID: finn5.i
Smp Info : IC0723,5,5,0
Misc Info : 10-
Comment :
Method : /chem1/finn5.i/23JUL10.b/s8260b.m
Meth Date : 29-Jul-2010 14:28 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 20:28 Cal File: 0010723.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	2.995	2.995	(0.453)	1408	1.00000	0.9540
2 Chloromethane	50	3.296	3.296	(0.498)	4906	1.00000	1.236
3 Vinyl Chloride	62	3.417	3.417	(0.517)	3458	1.00000	1.101
4 Bromomethane	94	3.899	3.899	(0.590)	2127	1.00000	1.247
5 Chloroethane	64	3.970	3.970	(0.600)	2437	1.00000	1.188
6 Trichlorofluoromethane	101	4.231	4.231	(0.640)	3360	1.00000	1.107
7 Acrolein	56	4.623	4.623	(0.699)	2329	5.00000	6.152
8 112Trichloro122Trifluoroethane	101	4.633	4.633	(0.701)	2901	1.00000	1.221
9 Acetone	43	4.673	4.673	(0.707)	3505	5.00000	5.503(M)
10 1,1-Dichloroethene	96	4.834	4.834	(0.731)	2358	1.00000	1.094
11 Bromoethane	108	5.055	5.055	(0.764)	1610	1.00000	1.008
12 Iodomethane	142	5.146	5.146	(0.778)	2301	1.00000	0.9027
13 Methylene Chloride	84	5.266	5.266	(0.796)	3788	1.00000	1.560
14 Acrylonitrile	53	5.347	5.347	(0.808)	446	1.00000	0.7931(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.387	5.387	(0.815)	3168	1.00000	0.9555(Q)
	15 Carbon Disulfide	76	5.367	5.367	(0.812)	7676	1.00000	1.148(Q)
	17 Trans-1,2-Dichloroethene	96	5.548	5.548	(0.839)	1855	1.00000	1.010
	18 Vinyl Acetate	43	5.869	5.869	(0.888)	3138	1.00000	0.9751
	19 1,1-Dichloroethane	63	5.929	5.929	(0.897)	3627	1.00000	1.073
	20 2-Butanone	43	6.271	6.271	(0.948)	3717	5.00000	5.186(T)
	21 2,2-Dichloropropane	77	6.442	6.442	(0.974)	2020	1.00000	0.9766
	22 Cis-1,2-Dichloroethene	96	6.482	6.482	(0.980)	1600	1.00000	0.9880
*	23 Pentafluorobenzene	168	6.613	6.613	(1.000)	113813	50.0000	
	24 Chloroform	83	6.633	6.633	(1.003)	2843	1.00000	1.035(Q)
	26 Bromochloromethane	128	6.794	6.794	(1.027)	686	1.00000	0.8922(Q)
$	25 Dibromofluoromethane	111	6.834	6.834	(1.033)	73863	50.0000	54.452(Q)
	27 1,1,1-Trichloroethane	97	7.015	7.015	(1.061)	2223	1.00000	1.041(M)
	29 1,1-Dichloropropene	75	7.166	7.166	(0.939)	2255	1.00000	0.9864
	30 Carbon Tetrachloride	117	7.286	7.286	(0.955)	1957	1.00000	0.9844
$	31 d4-1,2-Dichloroethane	65	7.296	7.296	(1.103)	81673	50.0000	55.025
	32 1,2-Dichloroethane	62	7.387	7.387	(0.968)	1923	1.00000	0.9582
	33 Benzene	78	7.427	7.427	(0.974)	5924	1.00000	1.072
*	34 1,4-Difluorobenzene	114	7.628	7.628	(1.000)	168346	50.0000	
	35 Trichloroethene	95	8.000	8.000	(1.049)	1468	1.00000	0.9064
	36 1,2-Dichloropropane	63	8.161	8.161	(1.070)	1766	1.00000	1.013
	37 Bromodichloromethane	83	8.392	8.392	(1.100)	1755	1.00000	0.9420
	39 Dibromomethane	93	8.462	8.462	(1.109)	852	1.00000	0.9849
	40 2-Chloroethyl Vinyl Ether	63	8.613	8.613	(1.129)	404	1.00000	0.6620(Q)
	41 4-Methyl-2-Pentanone	58	8.643	8.643	(1.133)	2382	5.00000	5.352(Q)
	42 Cis 1,3-dichloropropene	75	8.894	8.894	(1.166)	1694	1.00000	0.8328
$	43 d8-Toluene	98	9.176	9.176	(1.203)	189101	50.0000	51.122
	44 Toluene	92	9.256	9.256	(1.213)	4231	1.00000	1.290
	45 Trans 1,3-Dichloropropene	75	9.387	9.387	(1.231)	1503	1.00000	0.8790(Q)
	46 2-Hexanone	43	9.527	9.527	(0.884)	6953	5.00000	5.978(M)
	47 1,1,2-Trichloroethane	97	9.568	9.568	(1.254)	905	1.00000	0.8863
	48 1,3-Dichloropropane	76	9.829	9.829	(0.912)	1945	1.00000	0.9712
	49 Tetrachloroethene	166	9.949	9.949	(0.924)	1755	1.00000	1.110
	50 Chlorodibromomethane	129	10.161	10.161	(0.943)	1215	1.00000	0.9018
	51 1,2-Dibromoethane	107	10.382	10.382	(1.361)	1013	1.00000	0.9262(T)
*	52 d5-Chlorobenzene	117	10.774	10.774	(1.000)	142296	50.0000	
	53 Chlorobenzene	112	10.814	10.814	(1.004)	4123	1.00000	1.235
	54 Ethyl Benzene	91	10.854	10.854	(1.007)	6269	1.00000	1.111
	55 1,1,1,2-Tetrachloroethane	131	10.844	10.844	(1.007)	1389	1.00000	1.087
	56 m,p-xylene	106	10.934	10.934	(1.015)	3903	2.00000	1.892(Q)
	57 o-Xylene	106	11.417	11.417	(1.060)	1700	1.00000	0.7929(Q)
	58 Styrene	104	11.447	11.447	(1.062)	2884	1.00000	0.8700
	59 Isopropyl Benzene	105	11.799	11.799	(0.877)	5129	1.00000	1.064
	60 Bromoform	173	11.859	11.859	(0.881)	842	1.00000	1.086
	61 1,1,2,2-Tetrachloroethane	83	11.980	11.980	(0.890)	1717	1.00000	1.233(M)
$	62 4-Bromofluorobenzene	95	12.100	12.100	(1.123)	78200	50.0000	46.957
	63 1,2,3-Trichloropropane	110	12.150	12.150	(0.903)	282	1.00000	1.022(QM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	65 Trans-1,4-Dichloro 2-Butene	53	12.191	12.191	(0.906)	407	1.00000	0.9508 (QM)
	66 N-Propyl Benzene	91	12.251	12.251	(0.910)	6239	1.00000	1.002
	67 Bromobenzene	156	12.341	12.341	(0.917)	1399	1.00000	1.041
	68 1,3,5-Trimethyl Benzene	105	12.422	12.422	(0.923)	3814	1.00000	0.9746
	69 2-Chloro Toluene	91	12.482	12.482	(0.928)	4473	1.00000	1.094
	70 4-Chloro Toluene	91	12.532	12.532	(0.931)	3761	1.00000	0.9595
	71 T-Butyl Benzene	119	12.834	12.834	(0.954)	3230	1.00000	0.9648
	72 1,2,4-Trimethylbenzene	105	12.884	12.884	(0.957)	3492	1.00000	0.9064
	73 S-Butyl Benzene	105	13.085	13.085	(0.972)	5229	1.00000	0.9494
	74 4-Isopropyl Toluene	119	13.226	13.226	(0.983)	3188	1.00000	0.8436
	75 1,3-Dichlorobenzene	146	13.377	13.377	(0.994)	2237	1.00000	0.9743
*	76 d4-1,4-Dichlorobenzene	152	13.457	13.457	(1.000)	71616	50.0000	
	77 1,4-Dichlorobenzene	146	13.497	13.497	(1.003)	2370	1.00000	1.032 (Q)
	78 N-Butyl Benzene	91	13.708	13.708	(1.019)	4025	1.00000	0.9863
$	79 d4-1,2-Dichlorobenzene	152	13.899	13.899	(1.033)	66535	50.0000	51.077
	80 1,2-Dichlorobenzene	146	13.929	13.929	(1.035)	2202	1.00000	1.009
	81 1,2-Dibromo 3-Chloropropane	75	14.834	14.834	(1.102)	218	1.00000	0.9046 (Q)
	82 1,2,4-Trichlorobenzene	180	15.889	15.889	(1.181)	1382	1.00000	1.041
	83 Hexachloro 1,3-Butadiene	225	16.040	16.040	(1.192)	838	1.00000	0.9370
	84 Naphthalene	128	16.211	16.211	(1.205)	2458	1.00000	1.020
	85 1,2,3-Trichlorobenzene	180	16.492	16.492	(1.226)	1376	1.00000	1.084

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 0010723.d
Lab Smp Id: IC0723
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 18:42
Client Smp ID: VSTD001
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	113813	-13.20
34 1,4-Difluorobenze	191559	95780	383118	168346	-12.12
52 d5-Chlorobenzene	161199	80600	322398	142296	-11.73
76 d4-1,4-Dichlorobe	88279	44140	176558	71616	-18.88

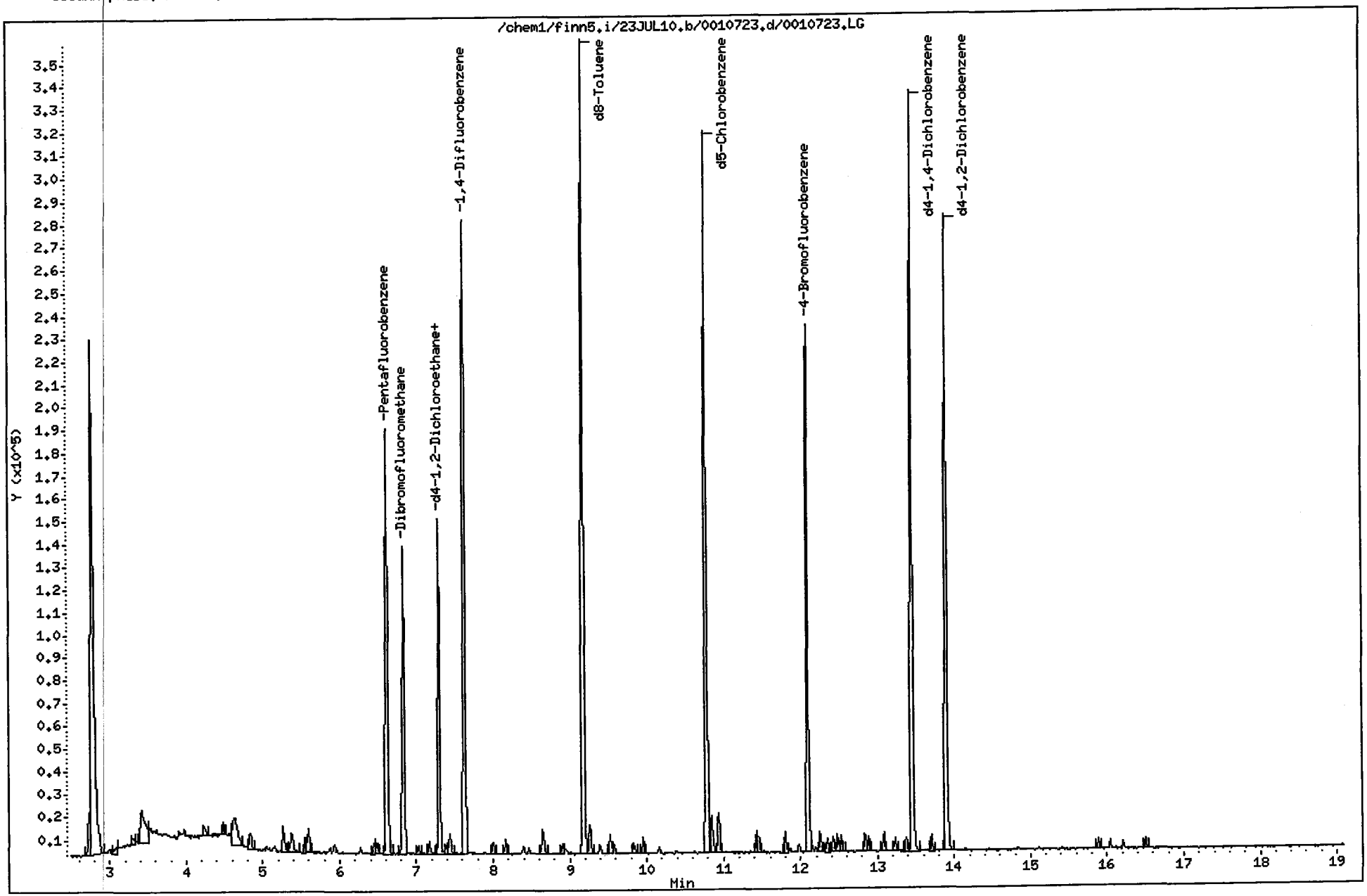
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.61	-0.15
34 1,4-Difluorobenze	7.63	7.13	8.13	7.63	0.00
52 d5-Chlorobenzene	10.78	10.28	11.28	10.77	-0.09
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.46	-0.07

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/finn5.i/23JUL10.b/0010723.d
Date : 23-JUL-2010 20:28
Client ID: VSTD001
Sample Info: IC0723,5,5,0

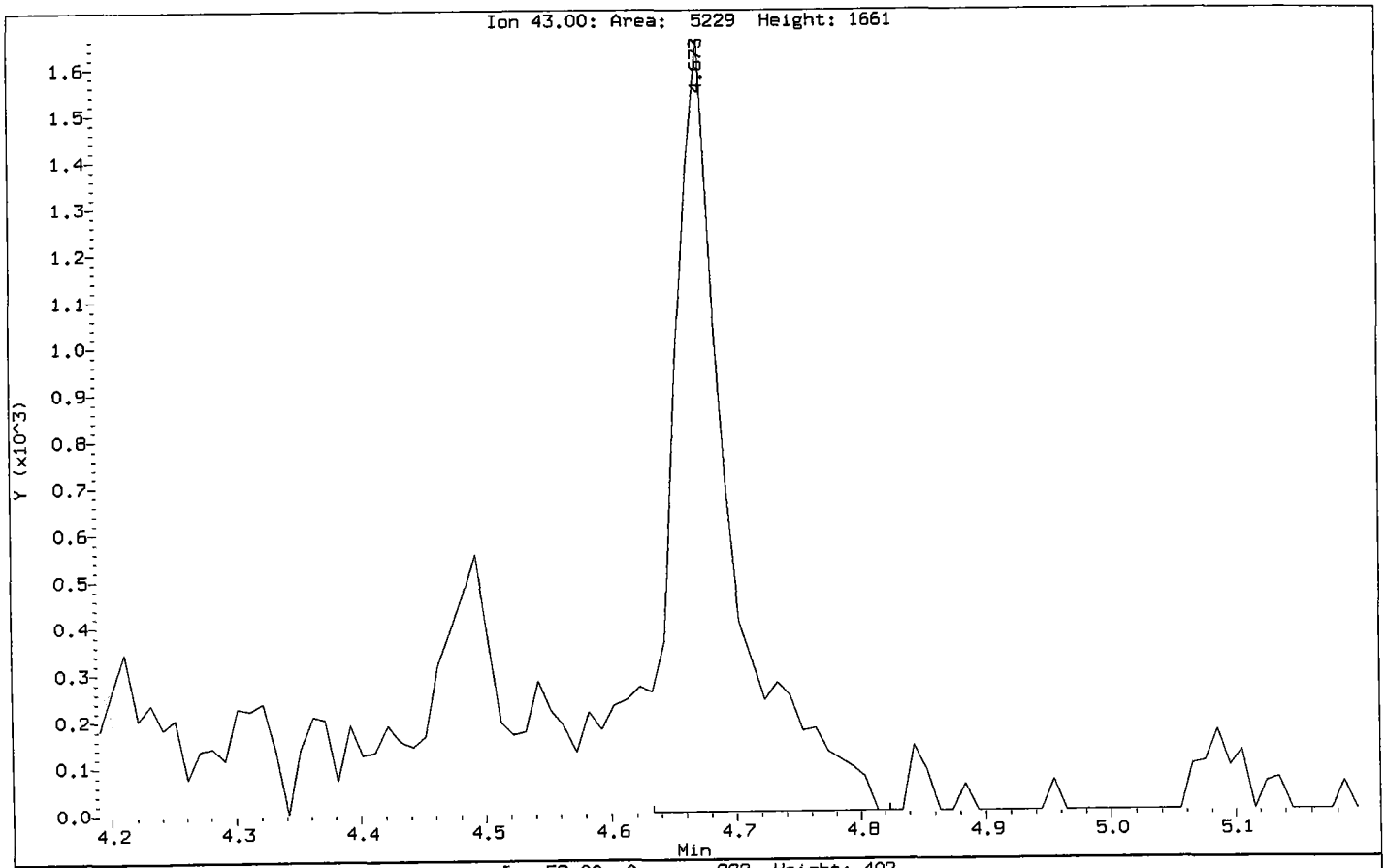
Instrument: finn5.i
Operator: PB
Column diameter: 0.18

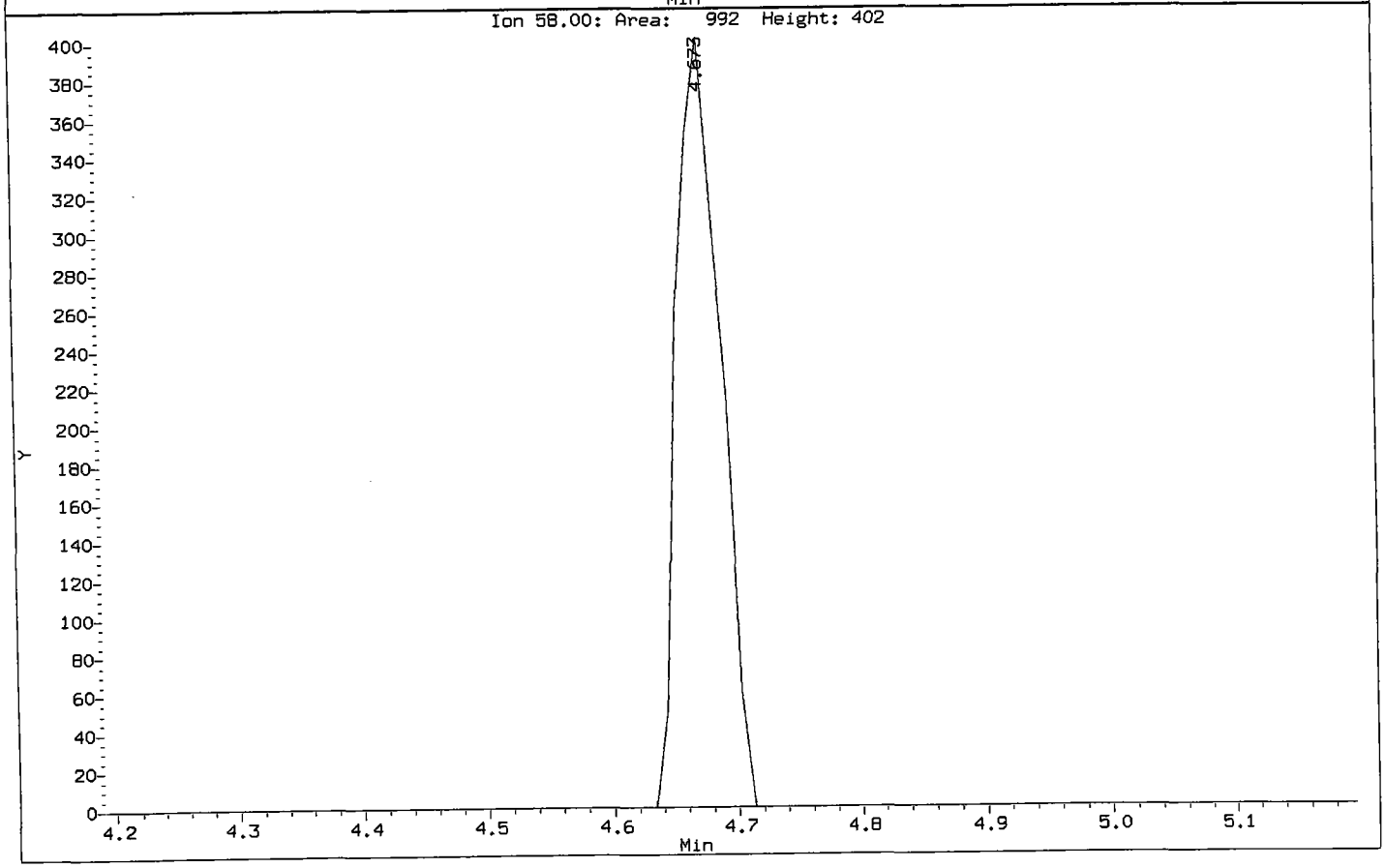
Column phase: Rtx502.2



Data File: /chem1/finn5.i/23JUL10.b/0010723.d/0010723.LG
Injection Date: 23-JUL-2010 20:28
Instrument: finn5.i
Client Sample ID: VSTD001

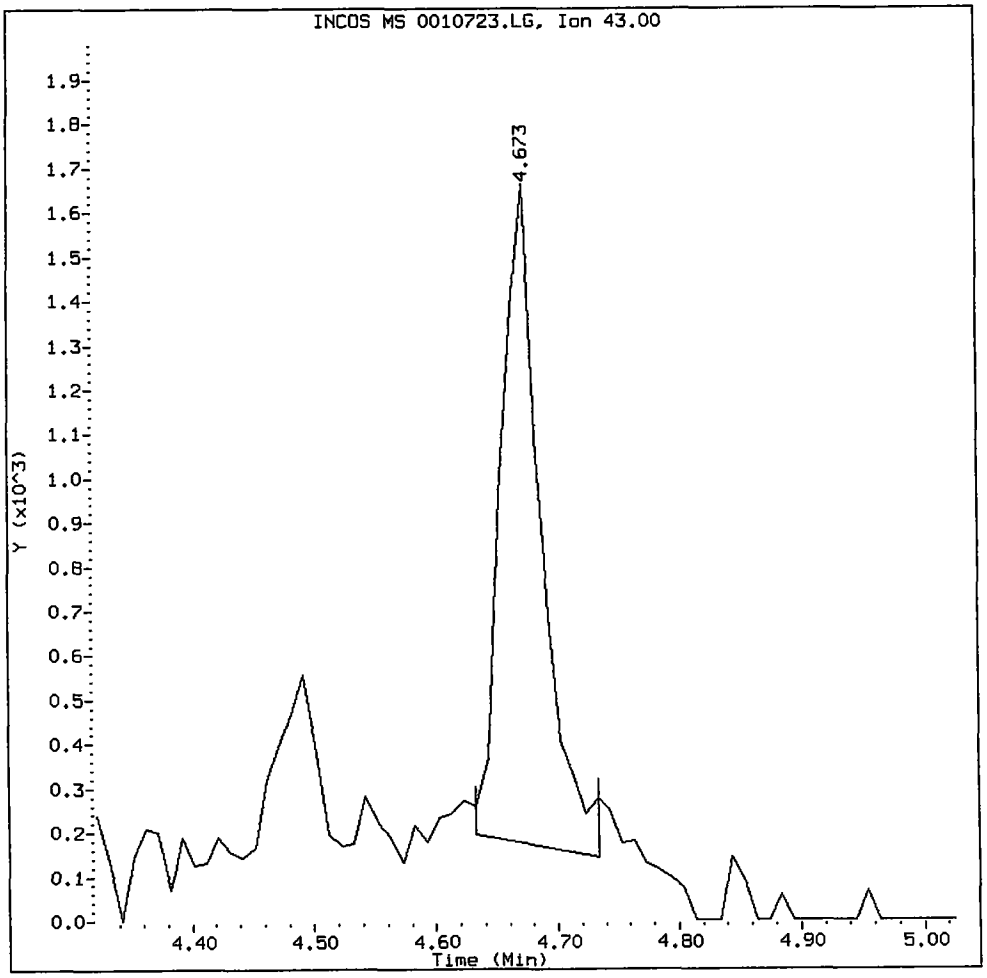
Compound: Acetone
CAS Number:





IC0723, /chem1/finn5.i/23JUL10.b/0010723.d

Acetone Amount: 5.50 Area: 3505



MANUAL INTEGRATION for Acetone

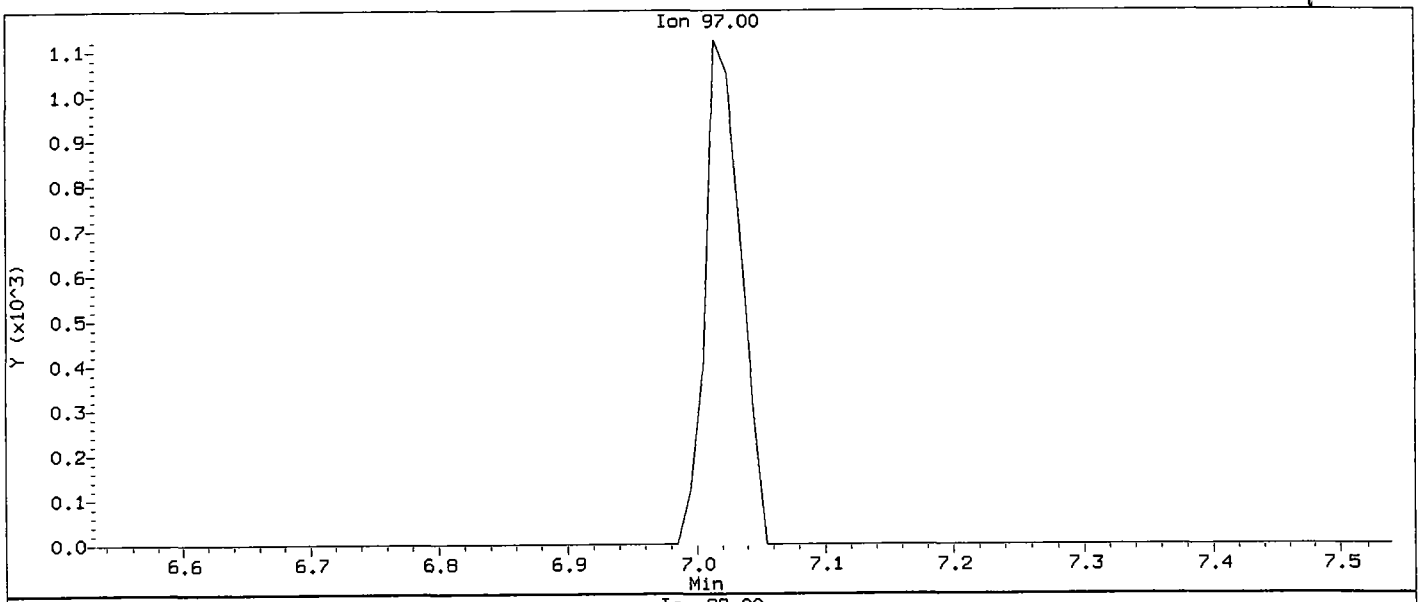
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

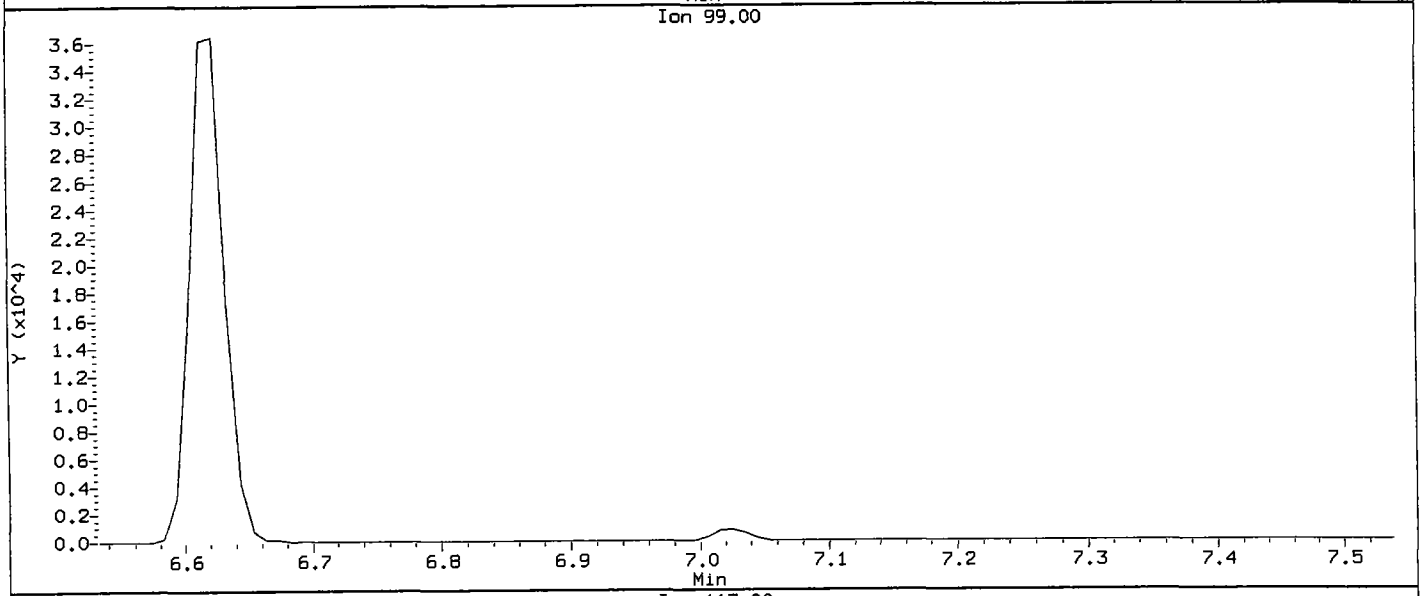
5. Other _____

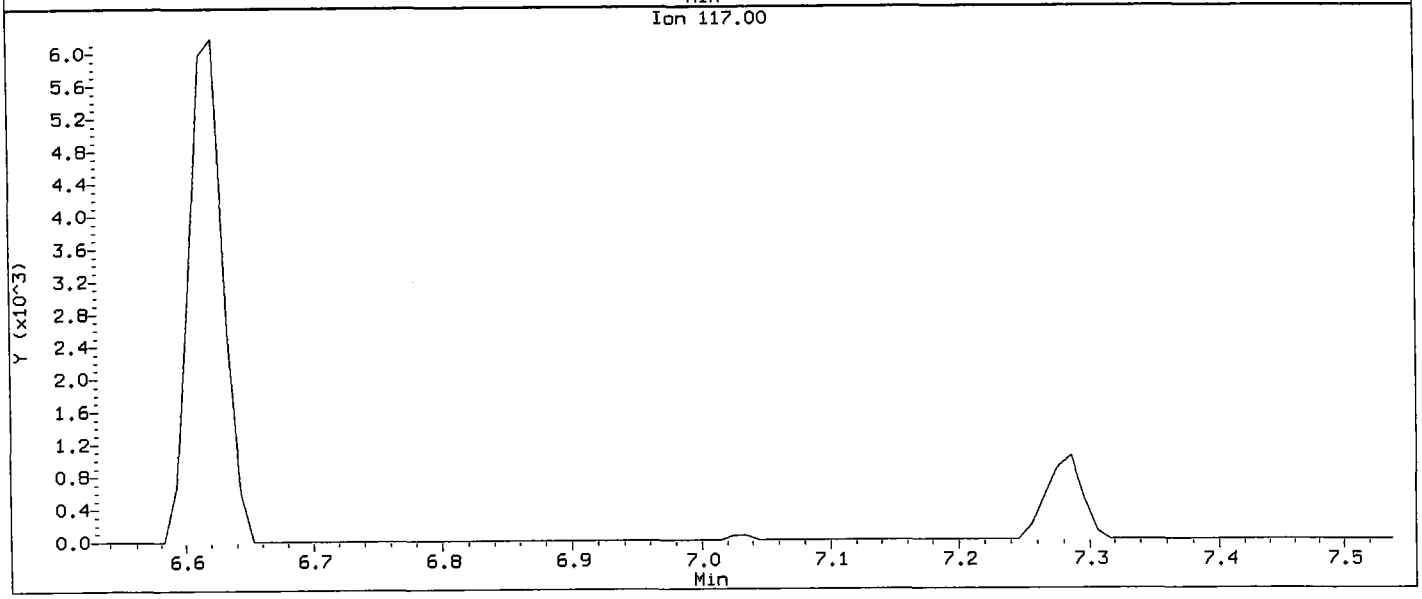
Analyst: _____ Date: 7/12/10

Data File: /chem1/finn5.i/23JUL10.b/0010723.d/0010723.LG
Injection Date: 23-JUL-2010 20:28
Instrument: finn5.i
Client Sample ID: VSTD001

Compound: 1,1,1-Trichloroethane
CAS Number:

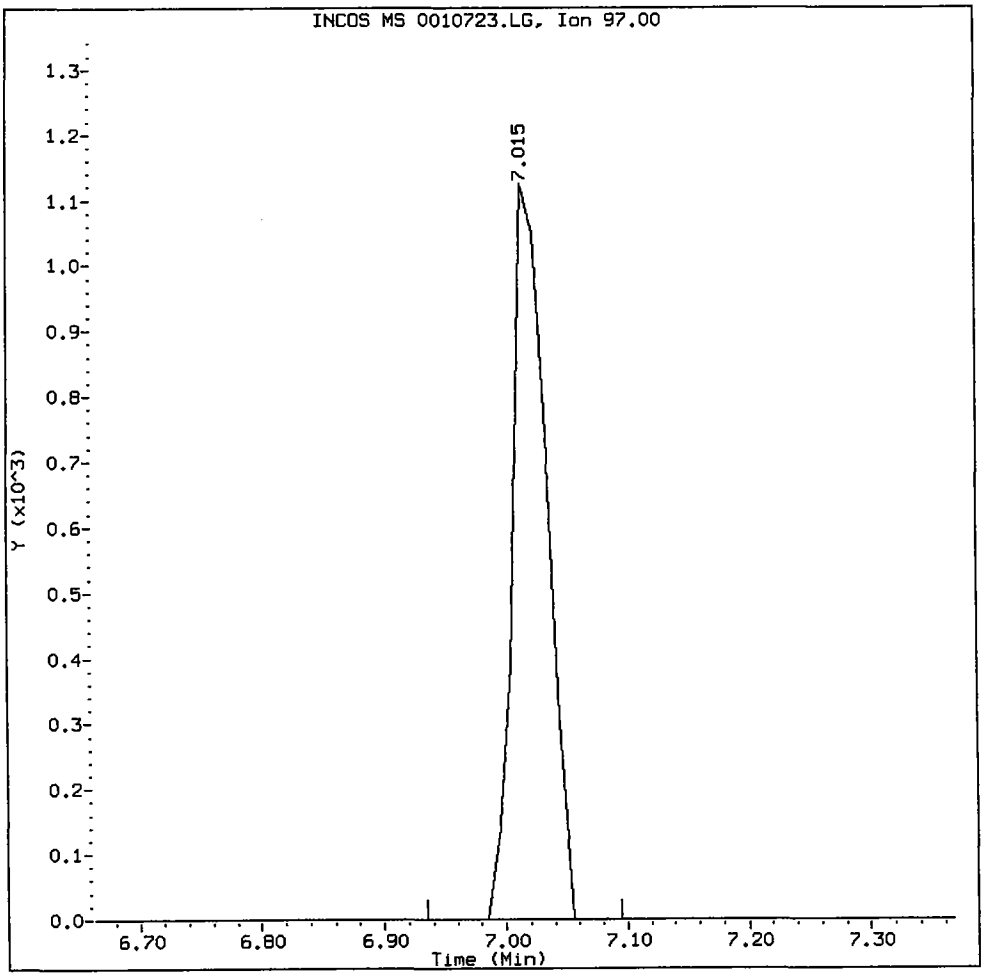






IC0723, /chem1/finn5.i/23JUL10.b/0010723.d

1,1,1-Trichloroethane Amount: 1.04 Area: 2223



MANUAL INTEGRATION for 1,1,1-Trichloroethane

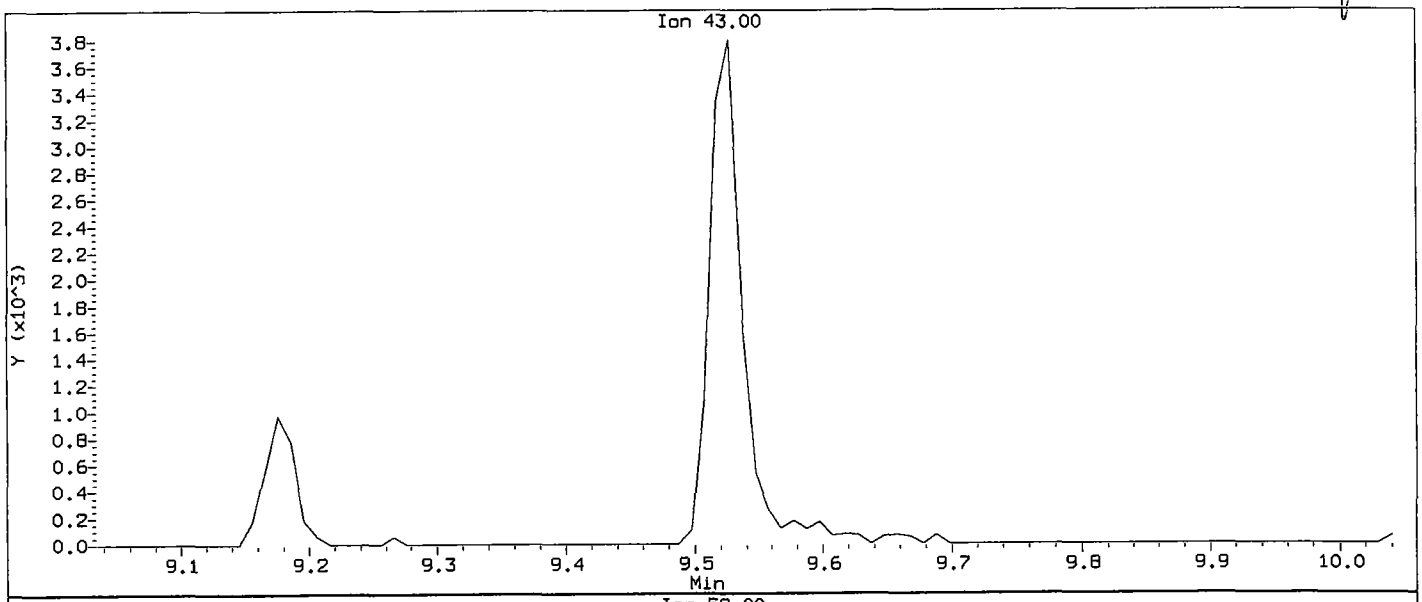
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

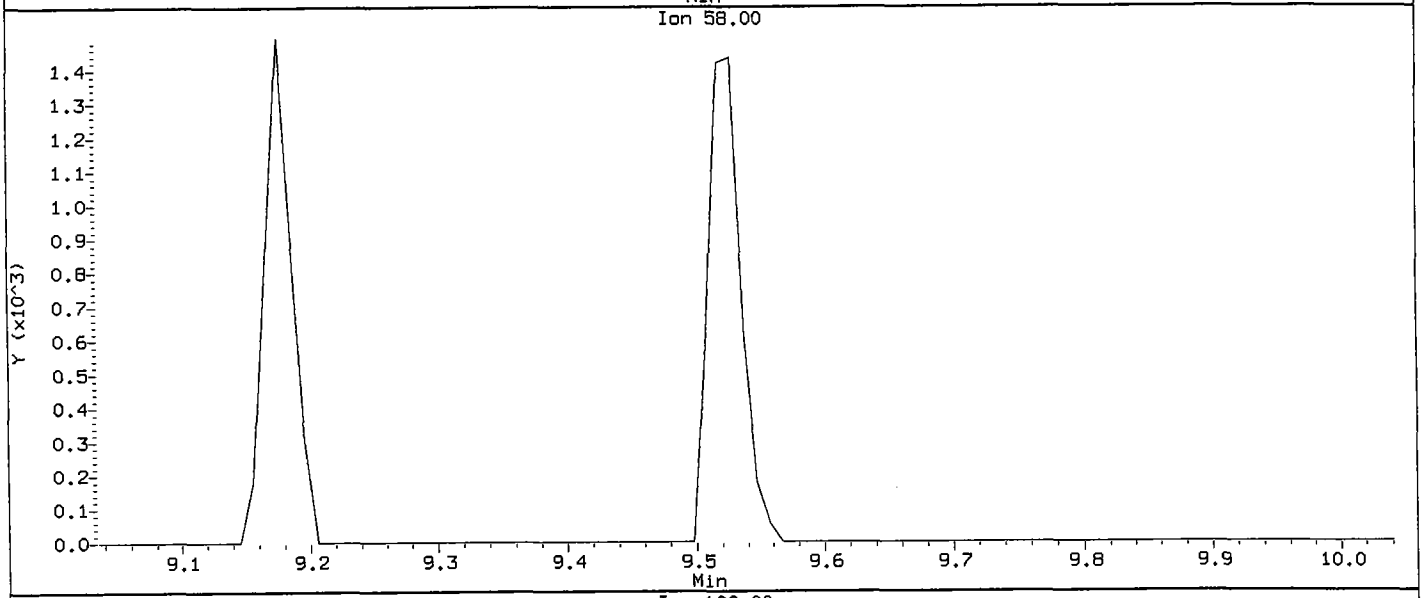
5. Other _____

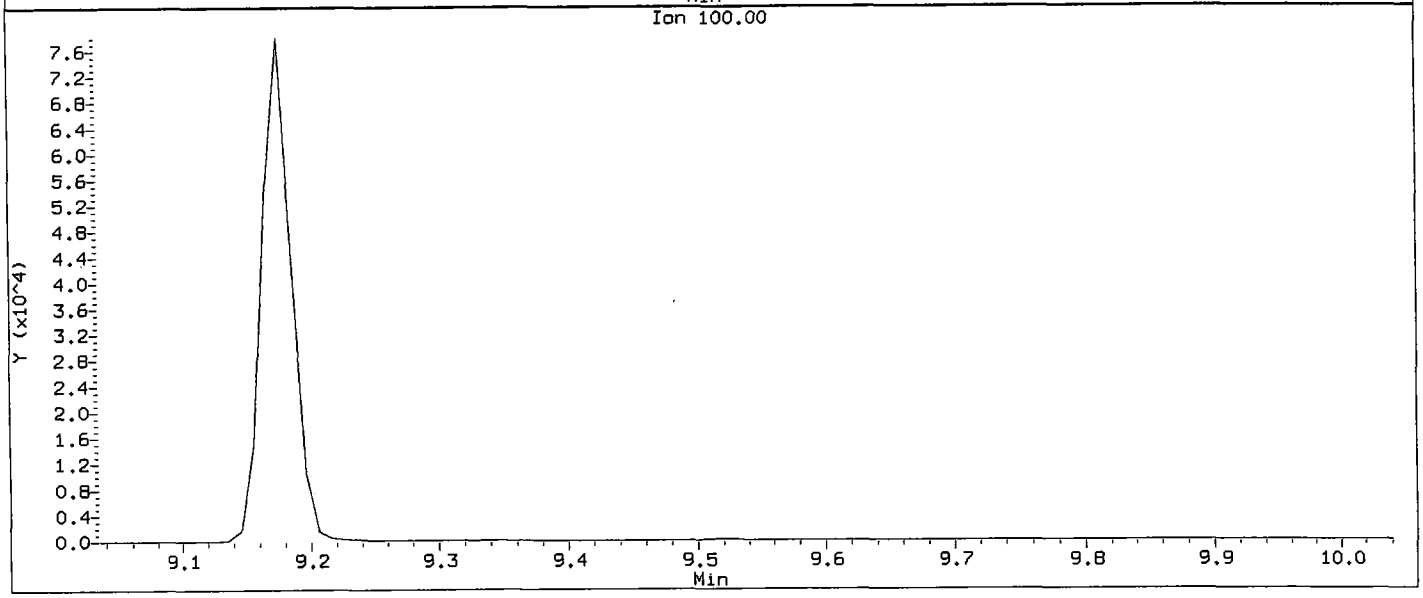
Analyst: _____ Date: 7/12/10

Data File: /chem1/finn5.i/23JUL10.b/0010723.d/0010723.LG
Injection Date: 23-JUL-2010 20:28
Instrument: finn5.i
Client Sample ID: VSTD001

Compound: 2-Hexanone
CAS Number:

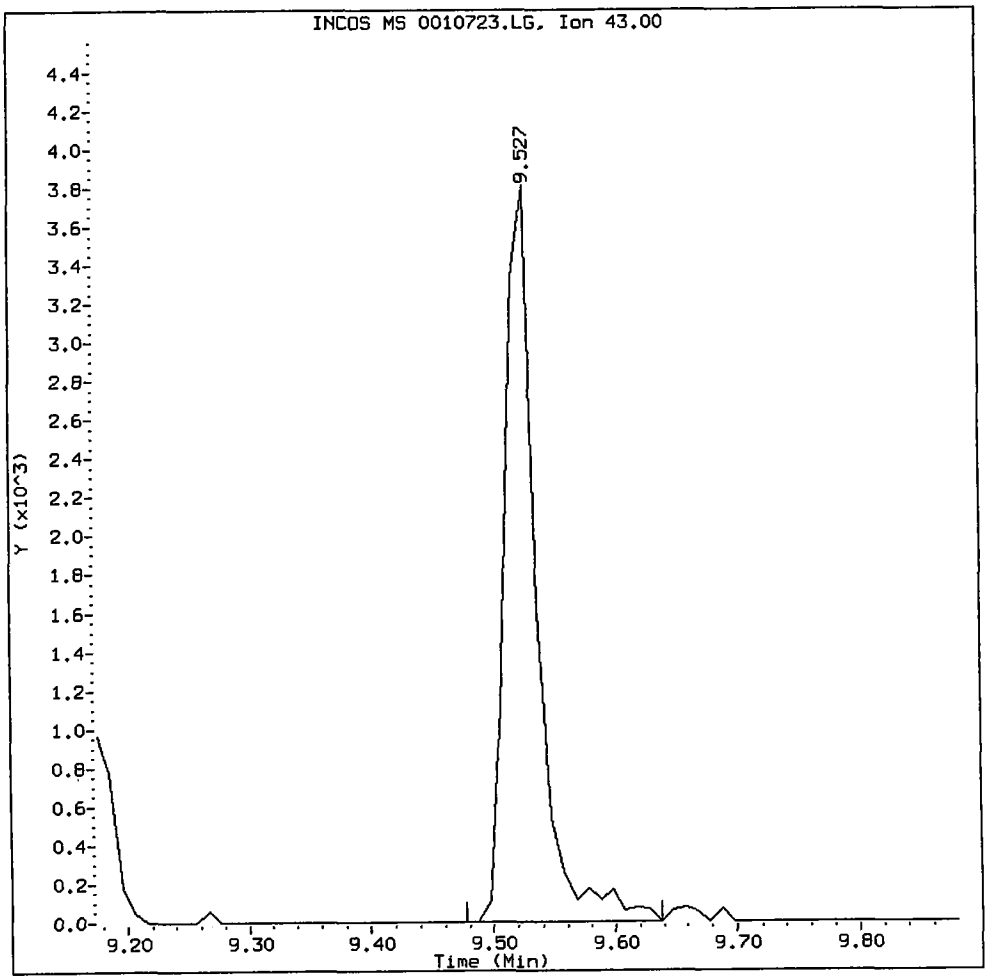






IC0723, /chem1/finn5.i/23JUL10.b/0010723.d

2-Hexanone Amount: 5.98 Area: 6953



MANUAL INTEGRATION for 2-Hexanone

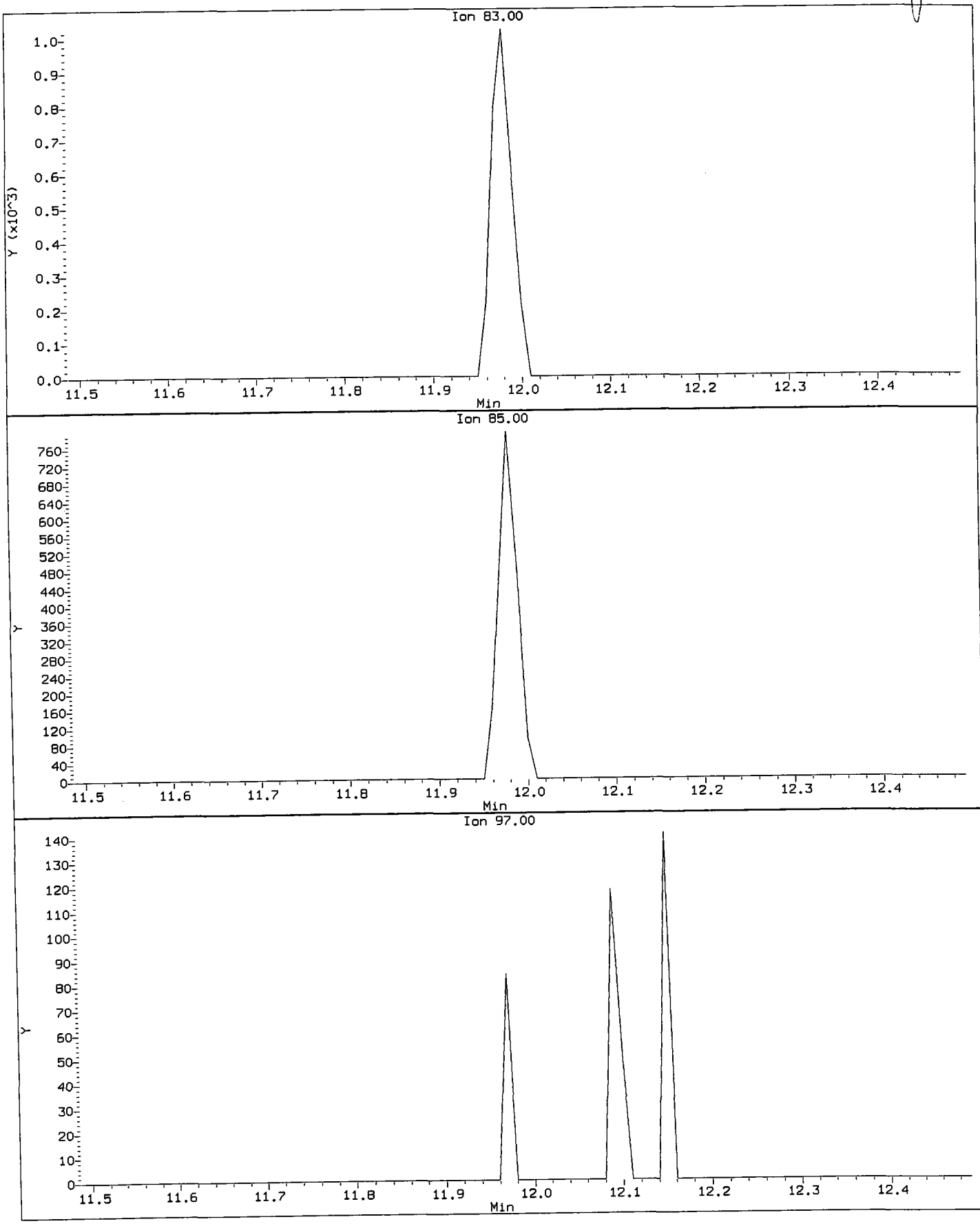
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/28/10

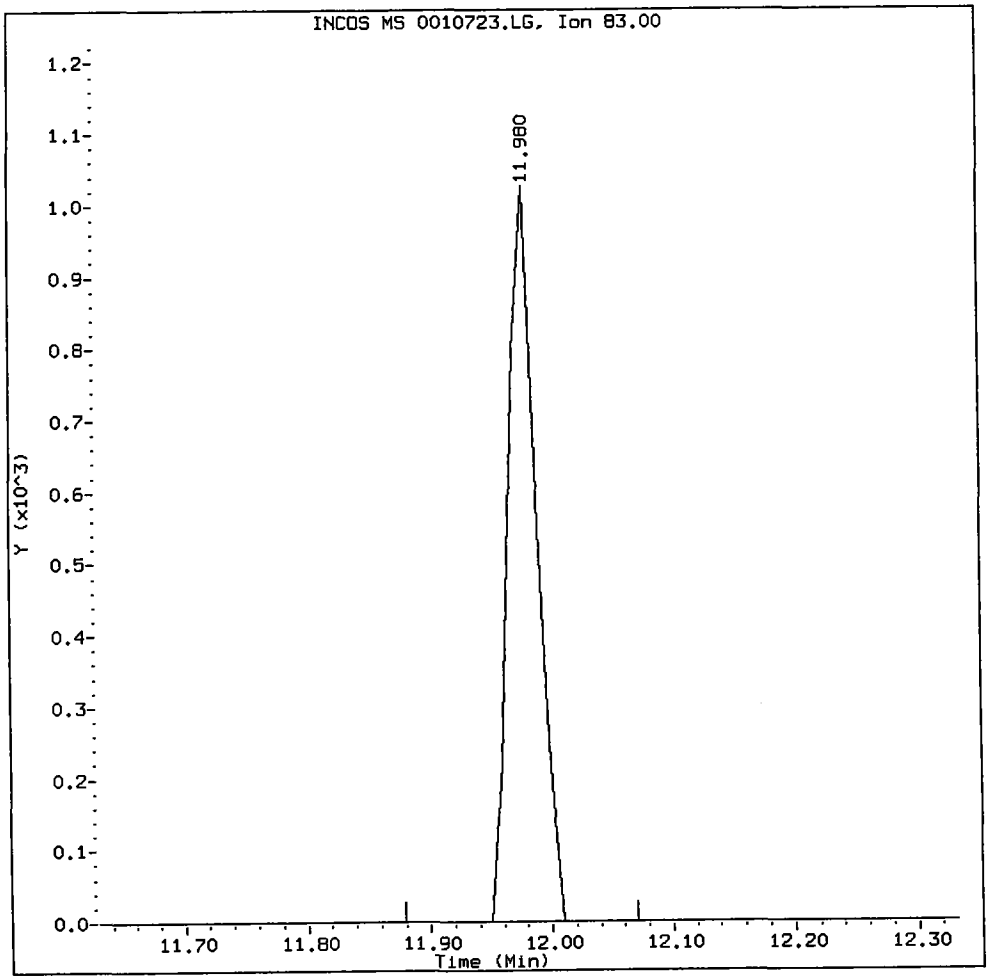
Data File: /chem1/finn5.i/23JUL10.b/0010723.d/0010723.LG
Injection Date: 23-JUL-2010 20:28
Instrument: finn5.i
Client Sample ID: VSTD001

Compound: 1,1,2,2-Tetrachloroethane
CAS Number:



IC0723, /chem1/finn5.i/23JUL10.b/0010723.d

1,1,2,2-Tetrachloroethane Amount: 1.23 Area: 1717



MANUAL INTEGRATION for 1,1,2,2-Tetrachloroethane

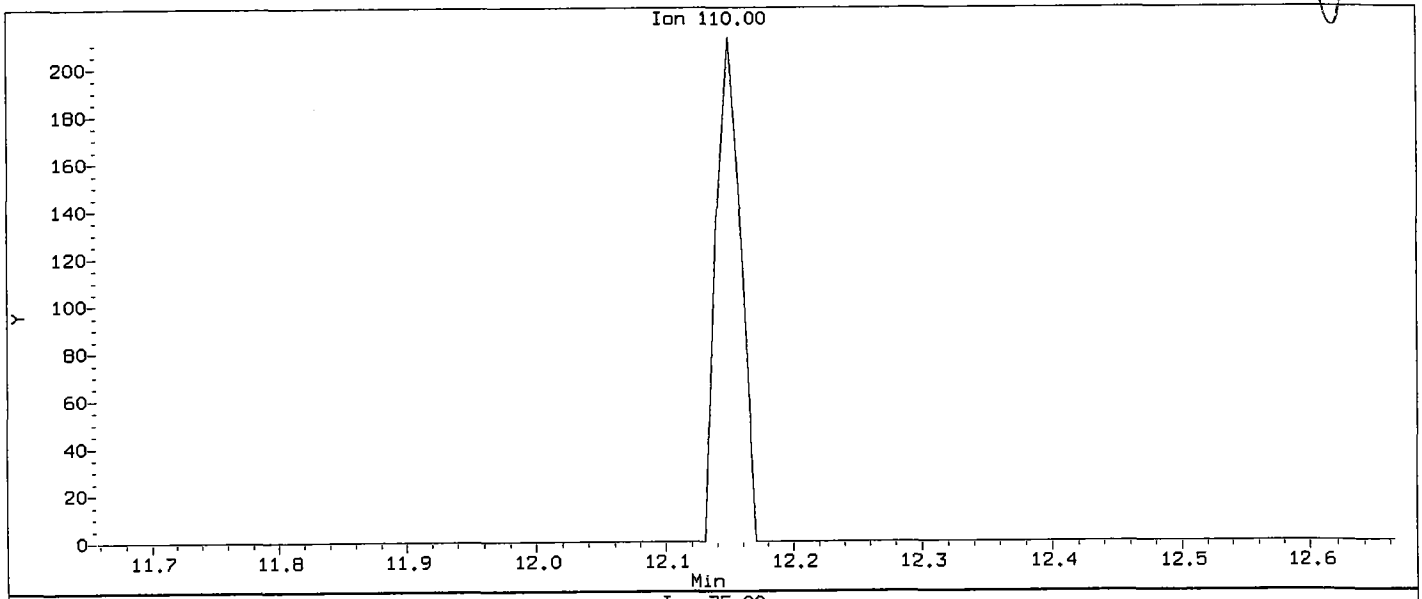
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

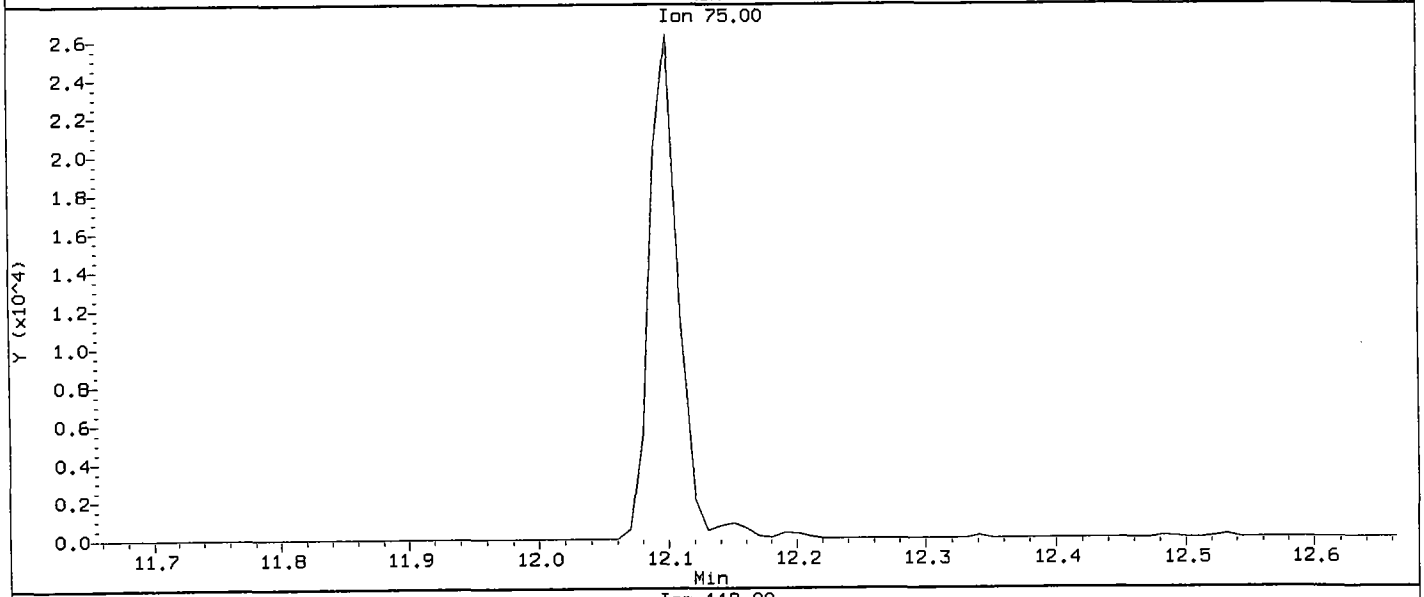
5. Other _____

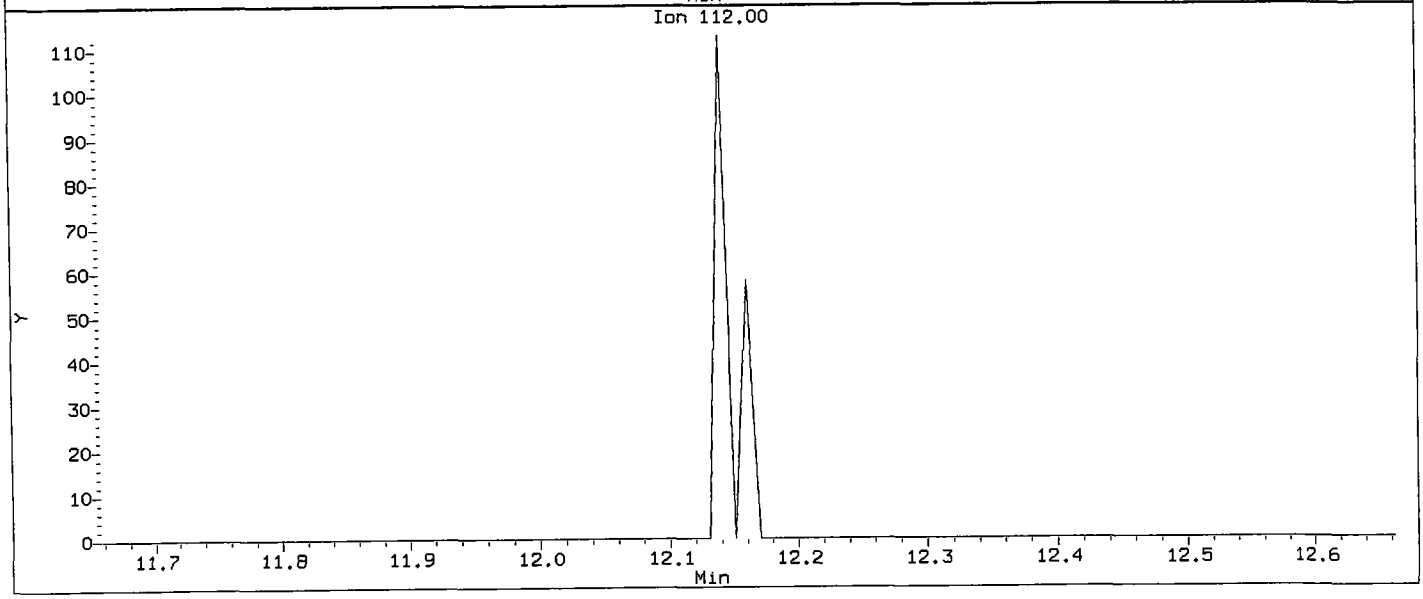
Analyst: _____ Date: 2/24/10

Data File: /chem1/finn5.i/23JUL10.b/0010723.d/0010723.LG
Injection Date: 23-JUL-2010 20:28
Instrument: finn5.i
Client Sample ID: VSTD001

Compound: 1,2,3-Trichloropropane
CAS Number:

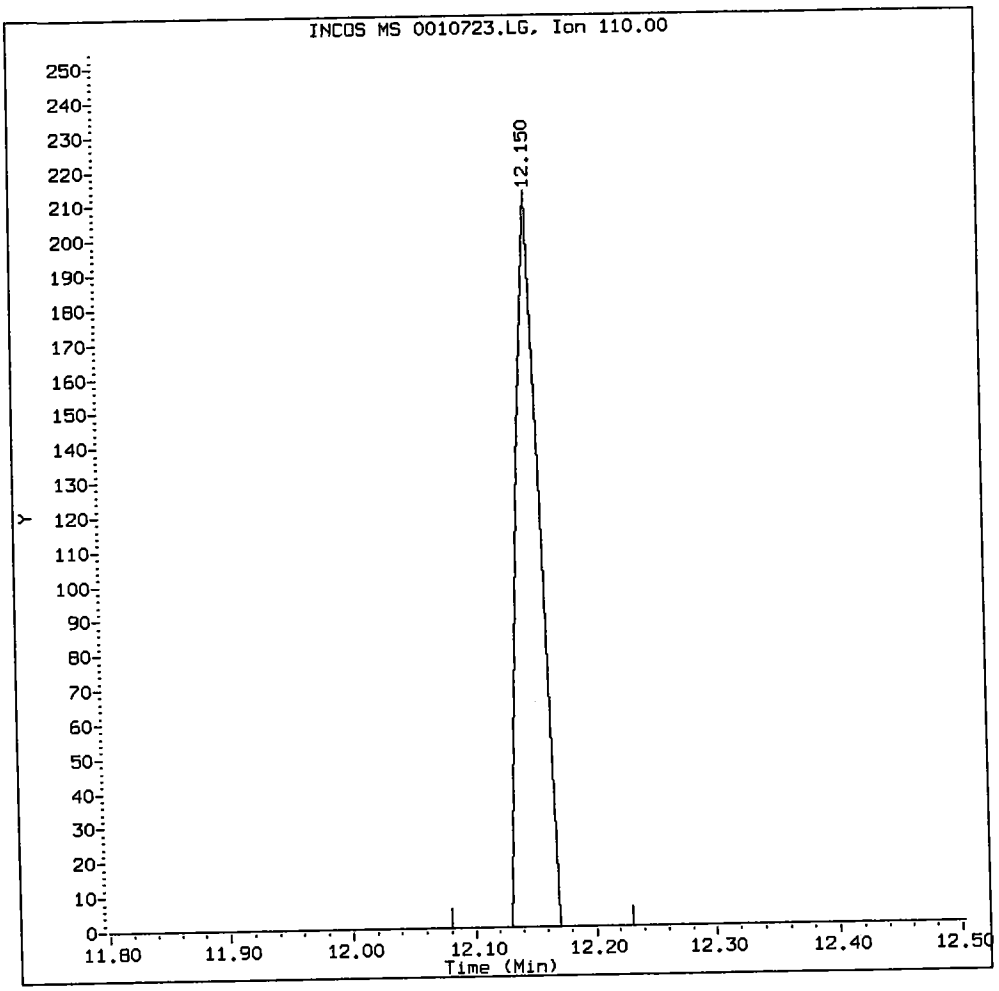






IC0723, /chem1/finn5.i/23JUL10.b/0010723.d

1,2,3-Trichloropropane Amount: 1.02 Area: 282



MANUAL INTEGRATION for 1,2,3-Trichloropropane

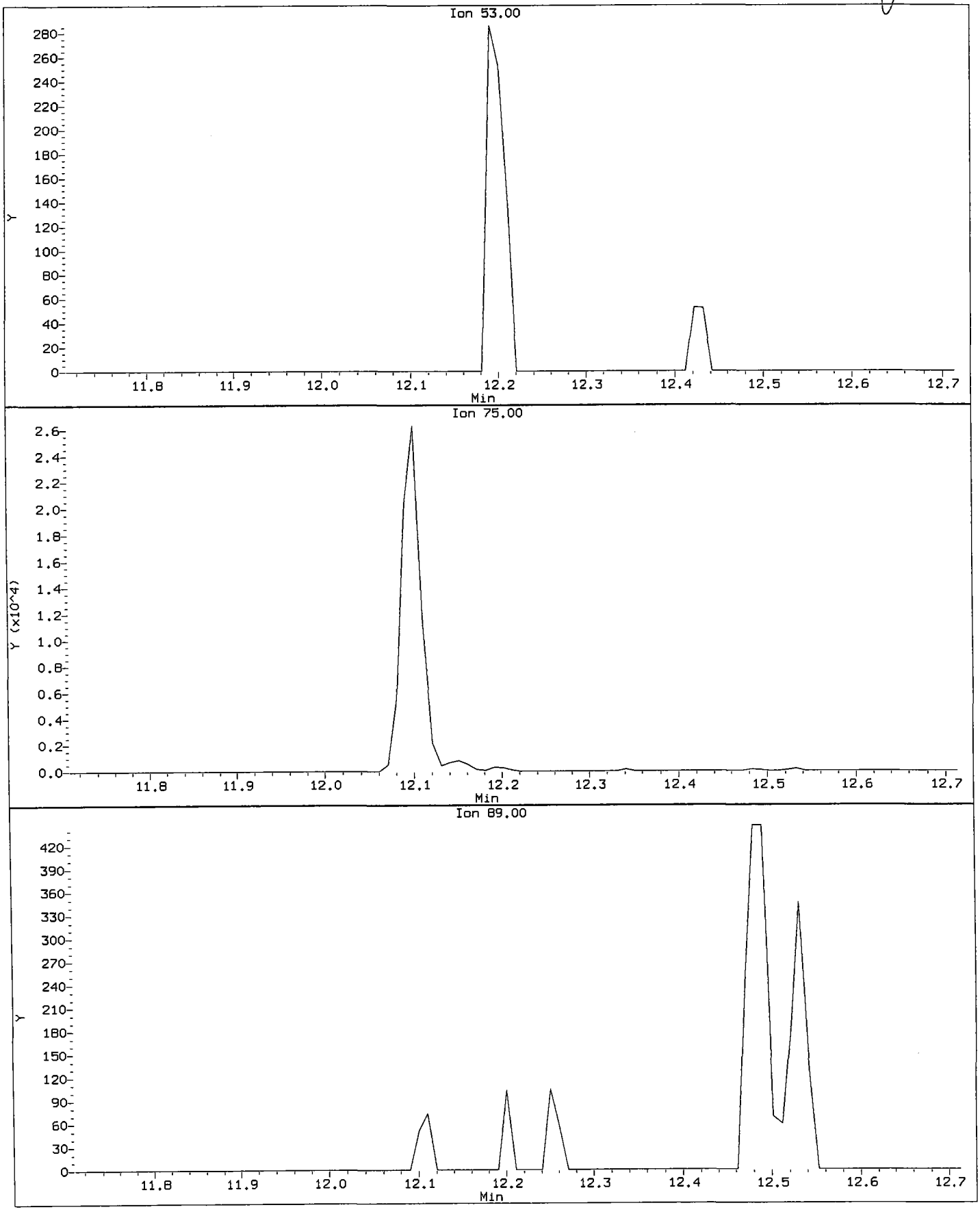
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/26/10

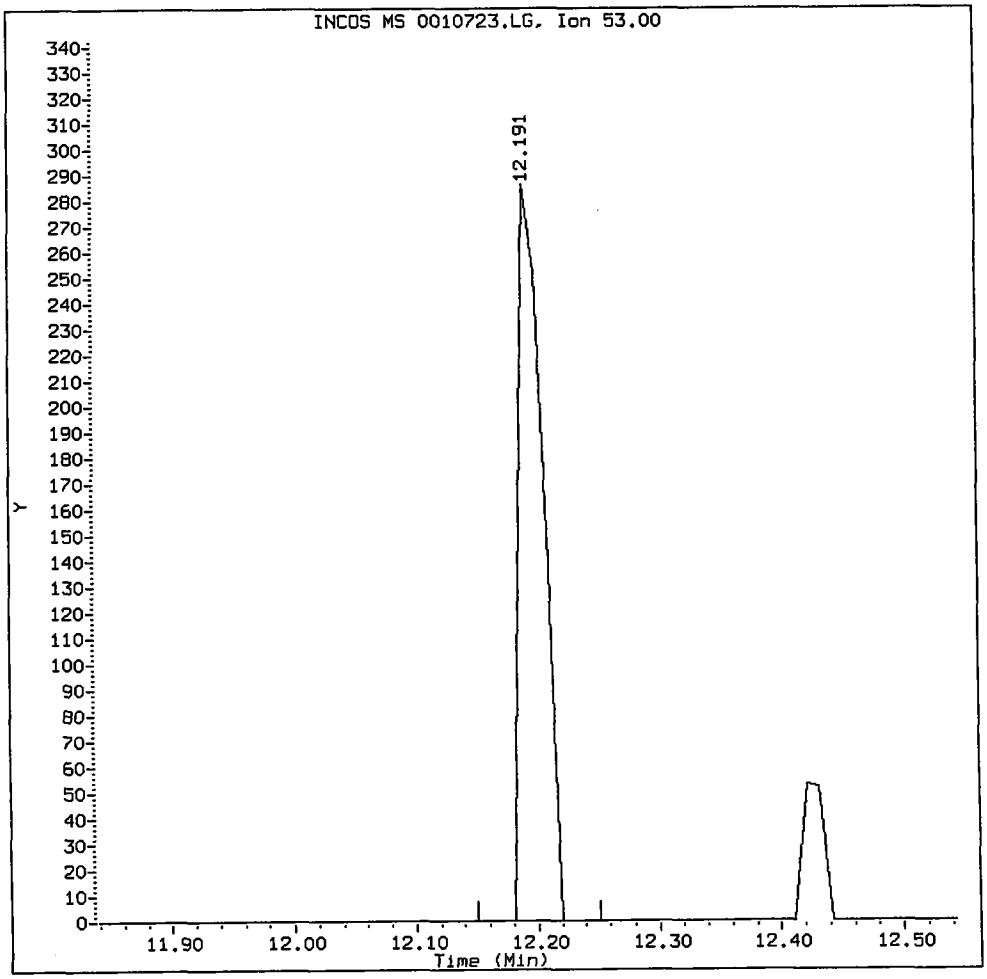
Data File: /chem1/finn5.i/23JUL10.b/0010723.d/0010723.LG
Injection Date: 23-JUL-2010 20:28
Instrument: finn5.i
Client Sample ID: VSTD001

Compound: Trans-1,4-Dichloro 2-Butene
CAS Number:



IC0723, /chem1/finn5.i/23JUL10.b/0010723.d

Trans-1,4-Dichloro 2-Butene Amount: 0.95 Area: 407



MANUAL INTEGRATION for Trans-1,4-Dichloro 2-Butene

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/24/10

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/23JUL10.b/0020723.d
Lab Smp Id: IC0723 Client Smp ID: VSTD002
Inj Date : 23-JUL-2010 20:02
Operator : PB Inst ID: finn5.i
Smp Info : IC0723,5,5,0
Misc Info : 10-
Comment :
Method : /chem1/finn5.i/23JUL10.b/s8260b.m
Meth Date : 29-Jul-2010 14:28 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 20:02 Cal File: 0020723.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	3.005	3.005	(0.454)	3205	2.00000	2.133
2 Chloromethane	50	3.306	3.306	(0.499)	9090	2.00000	2.249
3 Vinyl Chloride	62	3.427	3.427	(0.517)	6731	2.00000	2.106(Q)
4 Bromomethane	94	3.909	3.909	(0.590)	3943	2.00000	2.272
5 Chloroethane	64	3.980	3.980	(0.601)	5065	2.00000	2.426
6 Trichlorofluoromethane	101	4.241	4.241	(0.640)	7223	2.00000	2.338
7 Acrolein	56	4.623	4.623	(0.698)	4563	10.0000	11.841
8 112Trichloro122Trifluoroethane	101	4.643	4.643	(0.701)	5478	2.00000	2.265
9 Acetone	43	4.673	4.673	(0.706)	7408	10.0000	11.426(M)
10 1,1-Dichloroethene	96	4.834	4.834	(0.730)	4722	2.00000	2.152
11 Bromoethane	108	5.055	5.055	(0.763)	3446	2.00000	2.120
12 Iodomethane	142	5.156	5.156	(0.778)	4941	2.00000	1.904
13 Methylene Chloride	84	5.266	5.266	(0.795)	6472	2.00000	2.619
14 Acrylonitrile	53	5.347	5.347	(0.807)	1125	2.00000	1.965(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.397	5.397	(0.815)	6868	2.00000	2.035(Q)
	15 Carbon Disulfide	76	5.377	5.377	(0.812)	15337	2.00000	2.253(Q)
	17 Trans-1,2-Dichloroethene	96	5.558	5.558	(0.839)	3823	2.00000	2.044
	18 Vinyl Acetate	43	5.879	5.879	(0.888)	6836	2.00000	2.087
	19 1,1-Dichloroethane	63	5.929	5.929	(0.895)	7309	2.00000	2.124
	20 2-Butanone	43	6.281	6.281	(0.948)	7636	10.0000	10.467
	21 2,2-Dichloropropane	77	6.452	6.452	(0.974)	4155	2.00000	1.974
	22 Cis-1,2-Dichloroethene	96	6.492	6.492	(0.980)	3254	2.00000	1.974
*	23 Pentafluorobenzene	168	6.623	6.623	(1.000)	115854	50.0000	
	24 Chloroform	83	6.643	6.643	(1.003)	6004	2.00000	2.148(Q)
	26 Bromochloromethane	128	6.804	6.804	(1.027)	1497	2.00000	1.913(Q)
$	25 Dibromofluoromethane	111	6.834	6.834	(1.032)	72845	50.0000	52.755(Q)
	27 1,1,1-Trichloroethane	97	7.025	7.025	(1.061)	4331	2.00000	1.992
	29 1,1-Dichloropropene	75	7.176	7.176	(0.941)	4580	2.00000	2.033
	30 Carbon Tetrachloride	117	7.286	7.286	(0.955)	4142	2.00000	2.114
$	31 d4-1,2-Dichloroethane	65	7.306	7.306	(1.103)	81644	50.0000	54.036
	32 1,2-Dichloroethane	62	7.387	7.387	(0.968)	4173	2.00000	2.110
	33 Benzene	78	7.437	7.437	(0.975)	11737	2.00000	2.154
*	34 1,4-Difluorobenzene	114	7.628	7.628	(1.000)	165926	50.0000	
	35 Trichloroethene	95	8.010	8.010	(1.050)	3316	2.00000	2.077
	36 1,2-Dichloropropane	63	8.161	8.161	(1.070)	3461	2.00000	2.015
	37 Bromodichloromethane	83	8.402	8.402	(1.101)	3933	2.00000	2.142
	39 Dibromomethane	93	8.472	8.472	(1.111)	1720	2.00000	2.017
	40 2-Chloroethyl Vinyl Ether	63	8.613	8.613	(1.129)	941	2.00000	1.564(Q)
	41 4-Methyl-2-Pentanone	58	8.653	8.653	(1.134)	4544	10.0000	10.360(Q)
	42 Cis 1,3-dichloropropene	75	8.904	8.904	(1.167)	3760	2.00000	1.875
$	43 d8-Toluene	98	9.186	9.186	(1.204)	190730	50.0000	52.314
	44 Toluene	92	9.266	9.266	(1.215)	7331	2.00000	2.268
	45 Trans 1,3-Dichloropropene	75	9.397	9.397	(1.232)	3132	2.00000	1.858
	46 2-Hexanone	43	9.527	9.527	(0.884)	12031	10.0000	10.227(M)
	47 1,1,2-Trichloroethane	97	9.578	9.578	(1.256)	1959	2.00000	1.946
	48 1,3-Dichloropropane	76	9.839	9.839	(0.912)	4110	2.00000	2.029
	49 Tetrachloroethene	166	9.960	9.960	(0.924)	3034	2.00000	1.898
	50 Chlorodibromomethane	129	10.161	10.161	(0.942)	2530	2.00000	1.857
	51 1,2-Dibromoethane	107	10.382	10.382	(1.361)	2176	2.00000	2.018(T)
*	52 d5-Chlorobenzene	117	10.784	10.784	(1.000)	143906	50.0000	
	53 Chlorobenzene	112	10.824	10.824	(1.004)	7227	2.00000	2.141
	54 Ethyl Benzene	91	10.854	10.854	(1.007)	12527	2.00000	2.195
	55 1,1,1,2-Tetrachloroethane	131	10.854	10.854	(1.007)	2668	2.00000	2.065
	56 m,p-xylene	106	10.934	10.934	(1.014)	8069	4.00000	3.868(Q)
	57 o-Xylene	106	11.427	11.427	(1.060)	3867	2.00000	1.783
	58 Styrene	104	11.457	11.457	(1.062)	6001	2.00000	1.790
	59 Isopropyl Benzene	105	11.809	11.809	(0.877)	10149	2.00000	2.058
	60 Bromoform	173	11.869	11.869	(0.881)	1646	2.00000	2.076
	61 1,1,2,2-Tetrachloroethane	83	11.990	11.990	(0.890)	3293	2.00000	2.312
$	62 4-Bromofluorobenzene	95	12.100	12.100	(1.122)	80106	50.0000	47.564
	63 1,2,3-Trichloropropane	110	12.150	12.150	(0.902)	662	2.00000	2.346(QM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	12.201	12.201	(0.906)	943	2.00000	2.154 (QM)
66	N-Propyl Benzene	91	12.261	12.261	(0.910)	12782	2.00000	2.008
67	Bromobenzene	156	12.351	12.351	(0.917)	2746	2.00000	1.998
68	1,3,5-Trimethyl Benzene	105	12.432	12.432	(0.923)	7814	2.00000	1.952
69	2-Chloro Toluene	91	12.492	12.492	(0.928)	8221	2.00000	1.966
70	4-Chloro Toluene	91	12.532	12.532	(0.931)	8529	2.00000	2.127
71	T-Butyl Benzene	119	12.844	12.844	(0.954)	6991	2.00000	2.042
72	1,2,4-Trimethylbenzene	105	12.894	12.894	(0.957)	7457	2.00000	1.892
73	S-Butyl Benzene	105	13.085	13.085	(0.972)	10809	2.00000	1.919
74	4-Isopropyl Toluene	119	13.236	13.236	(0.983)	7447	2.00000	1.926
75	1,3-Dichlorobenzene	146	13.387	13.387	(0.994)	4492	2.00000	1.913
* 76	d4-1,4-Dichlorobenzene	152	13.467	13.467	(1.000)	73251	50.0000	
77	1,4-Dichlorobenzene	146	13.497	13.497	(1.002)	4608	2.00000	1.961
78	N-Butyl Benzene	91	13.718	13.718	(1.019)	8103	2.00000	1.941
$ 79	d4-1,2-Dichlorobenzene	152	13.909	13.909	(1.033)	67411	50.0000	50.594
80	1,2-Dichlorobenzene	146	13.939	13.939	(1.035)	4695	2.00000	2.104
81	1,2-Dibromo 3-Chloropropane	75	14.844	14.844	(1.102)	613	2.00000	2.487
82	1,2,4-Trichlorobenzene	180	15.889	15.889	(1.180)	2979	2.00000	2.193
83	Hexachloro 1,3-Butadiene	225	16.040	16.040	(1.191)	2016	2.00000	2.204
84	Naphthalene	128	16.221	16.221	(1.204)	5145	2.00000	2.088
85	1,2,3-Trichlorobenzene	180	16.502	16.502	(1.225)	2989	2.00000	2.302

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 0020723.d
Lab Smp Id: IC0723
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 18:42
Client Smp ID: VSTD002
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	115854	-11.64
34 1,4-Difluorobenze	191559	95780	383118	165926	-13.38
52 d5-Chlorobenzene	161199	80600	322398	143906	-10.73
76 d4-1,4-Dichlorobe	88279	44140	176558	73251	-17.02

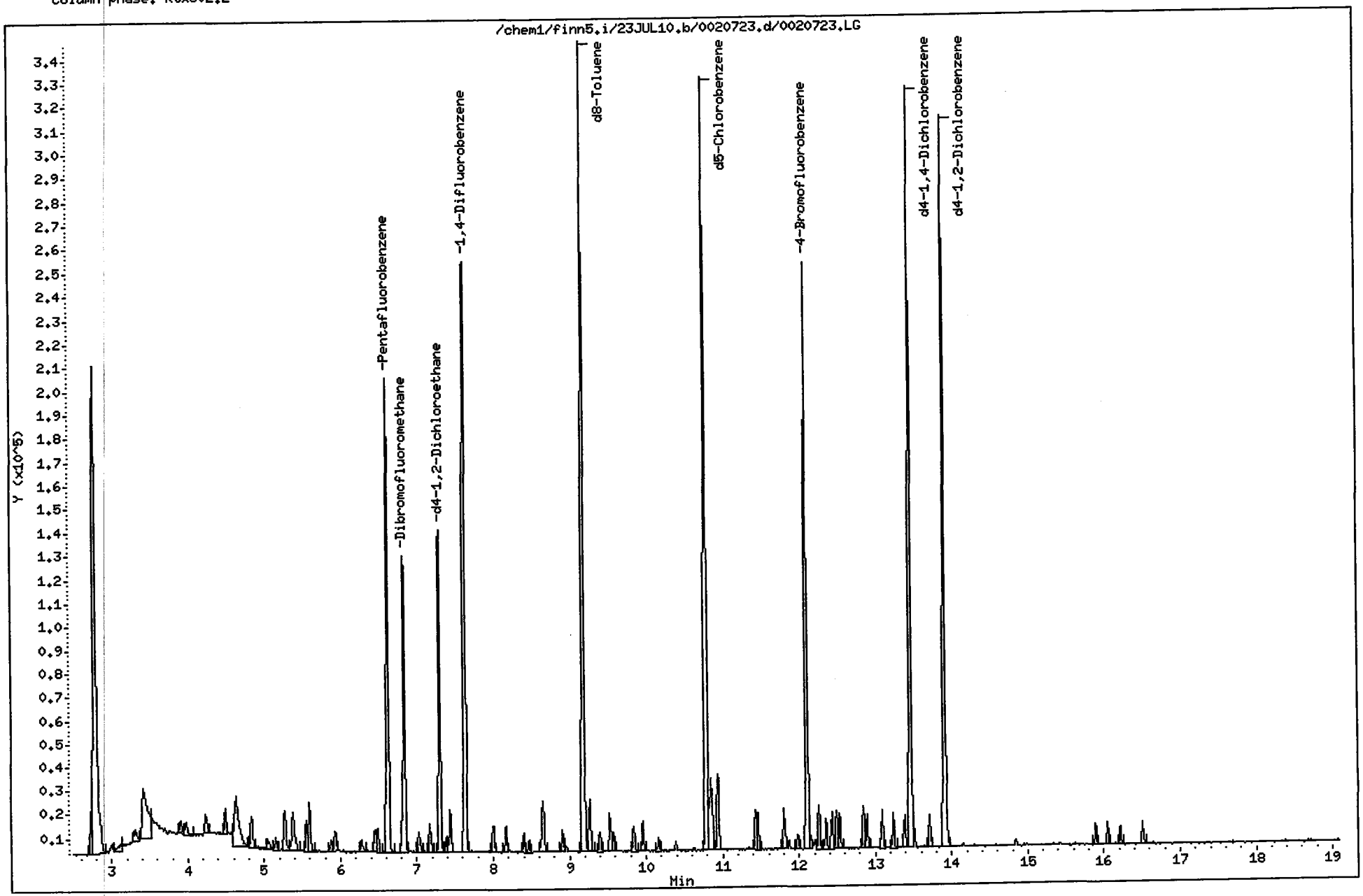
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.62	0.00
34 1,4-Difluorobenze	7.63	7.13	8.13	7.63	0.00
52 d5-Chlorobenzene	10.78	10.28	11.28	10.78	0.00
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.47	0.00

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: /chem1/finn5.i/23JUL10.b/0020723.d
Date : 23-JUL-2010 20:02
Client ID: VSTD002
Sample Info: IC0723,5,5,0

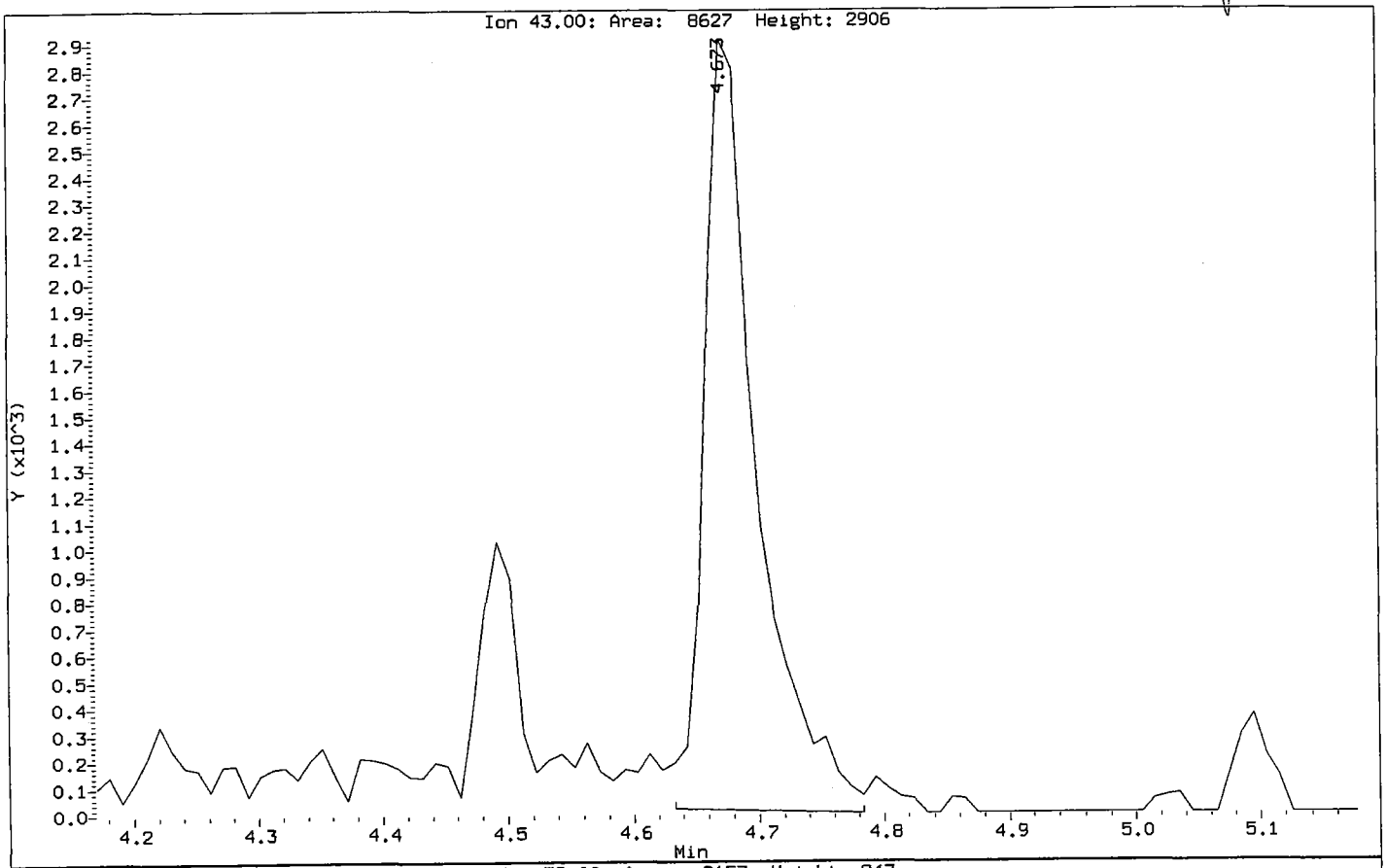
Instrument: finn5.i
Operator: PB
Column diameter: 0.18

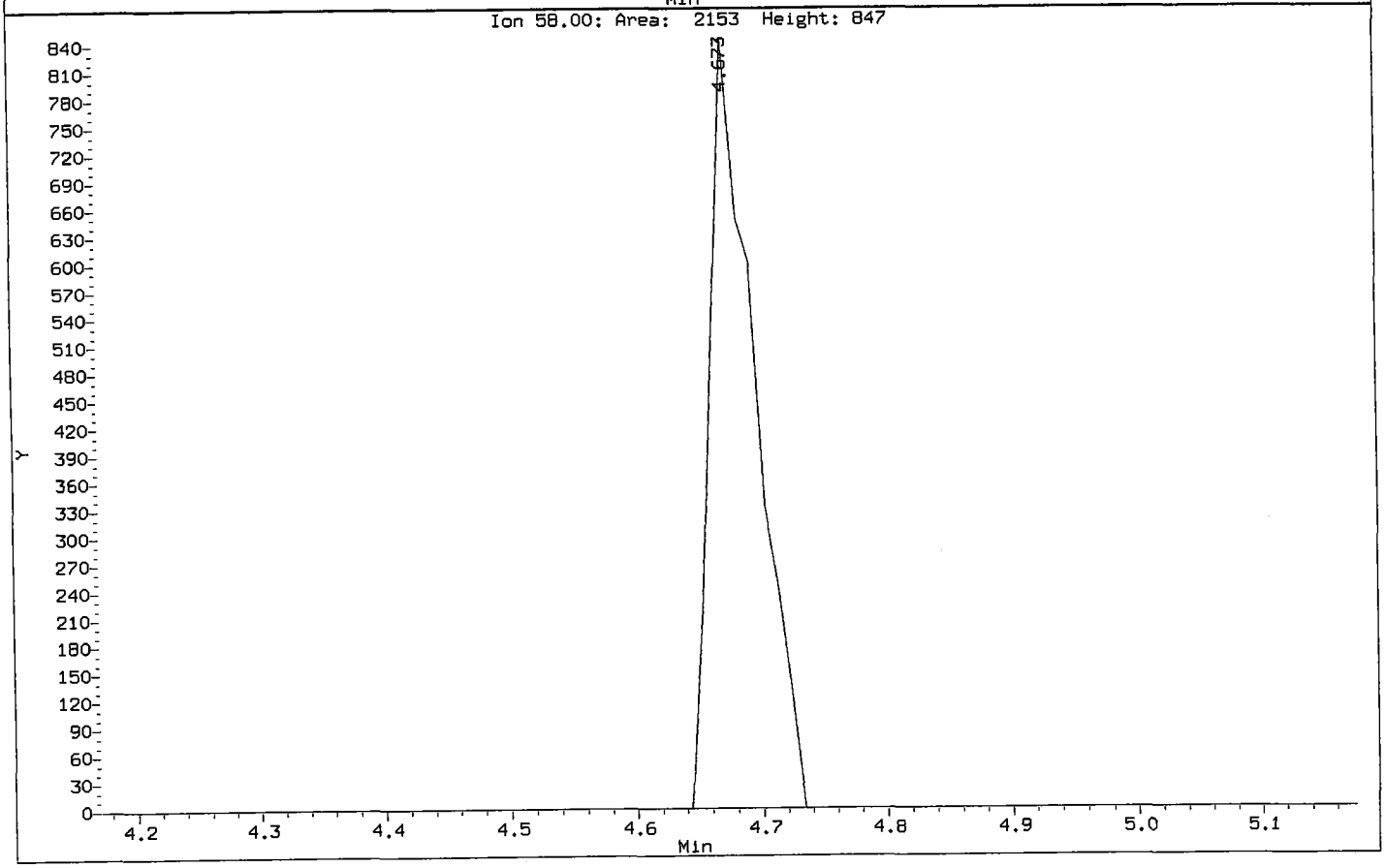
Column phase: Rtx502.2



Data File: /chem1/finn5.i/23JUL10.b/0020723.d/0020723.LG
Injection Date: 23-JUL-2010 20:02
Instrument: finn5.i
Client Sample ID: VSTD002

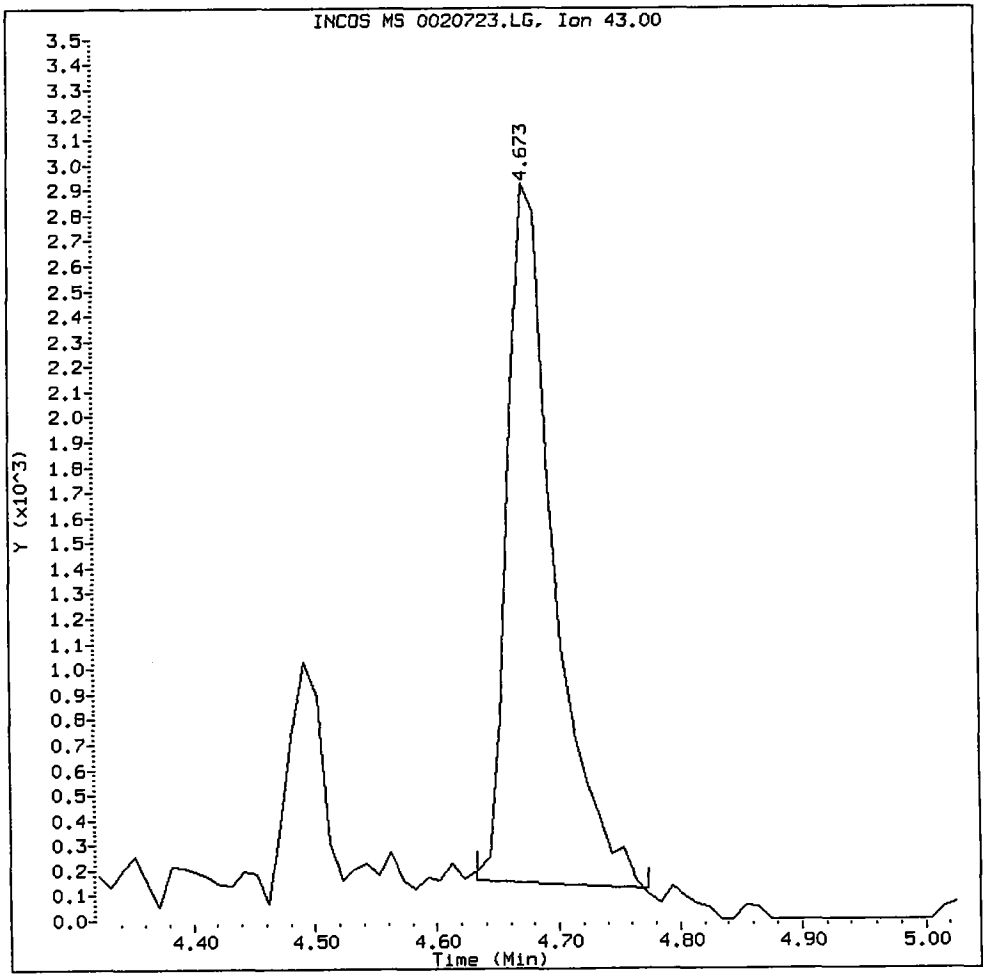
Compound: Acetone
CAS Number:





IC0723, /chem1/finn5.i/23JUL10.b/0020723.d

Acetone Amount: 11.43 Area: 7408



MANUAL INTEGRATION for Acetone

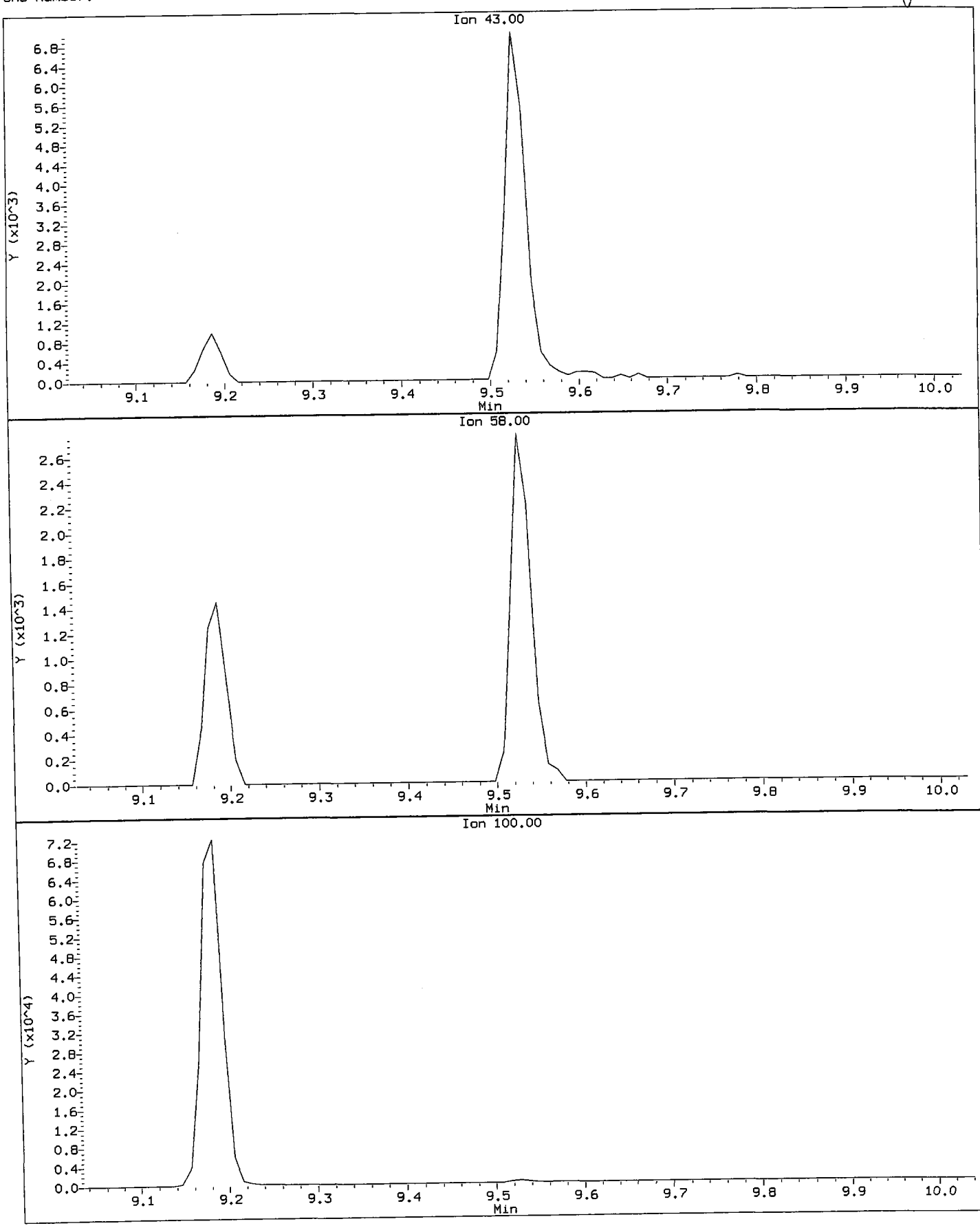
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/29/10

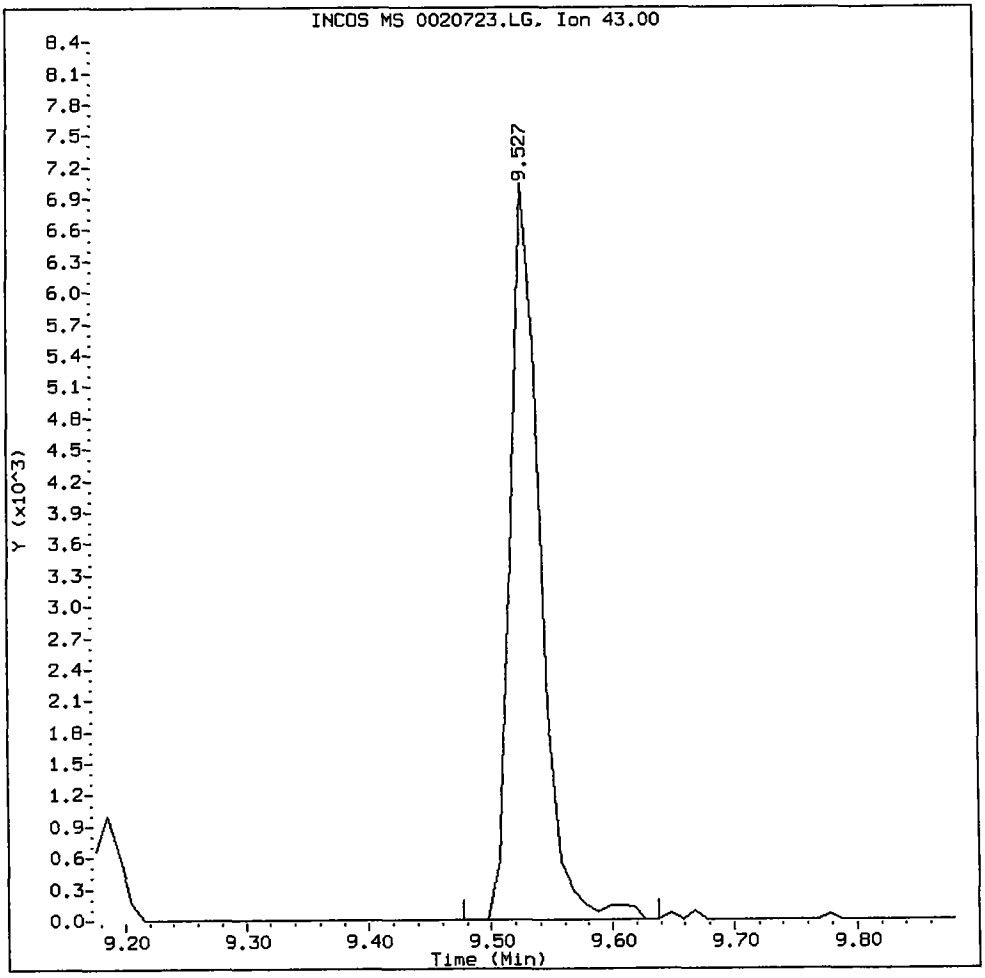
Data File: /chem1/finn5.i/23JUL10.b/0020723.d/0020723.LG
Injection Date: 23-JUL-2010 20:02
Instrument: finn5.i
Client Sample ID: VSTD002

Compound: 2-Hexanone
CAS Number:



IC0723, /chem1/finn5.i/23JUL10.b/0020723.d

2-Hexanone Amount: 10.23 Area: 12031



MANUAL INTEGRATION for 2-Hexanone

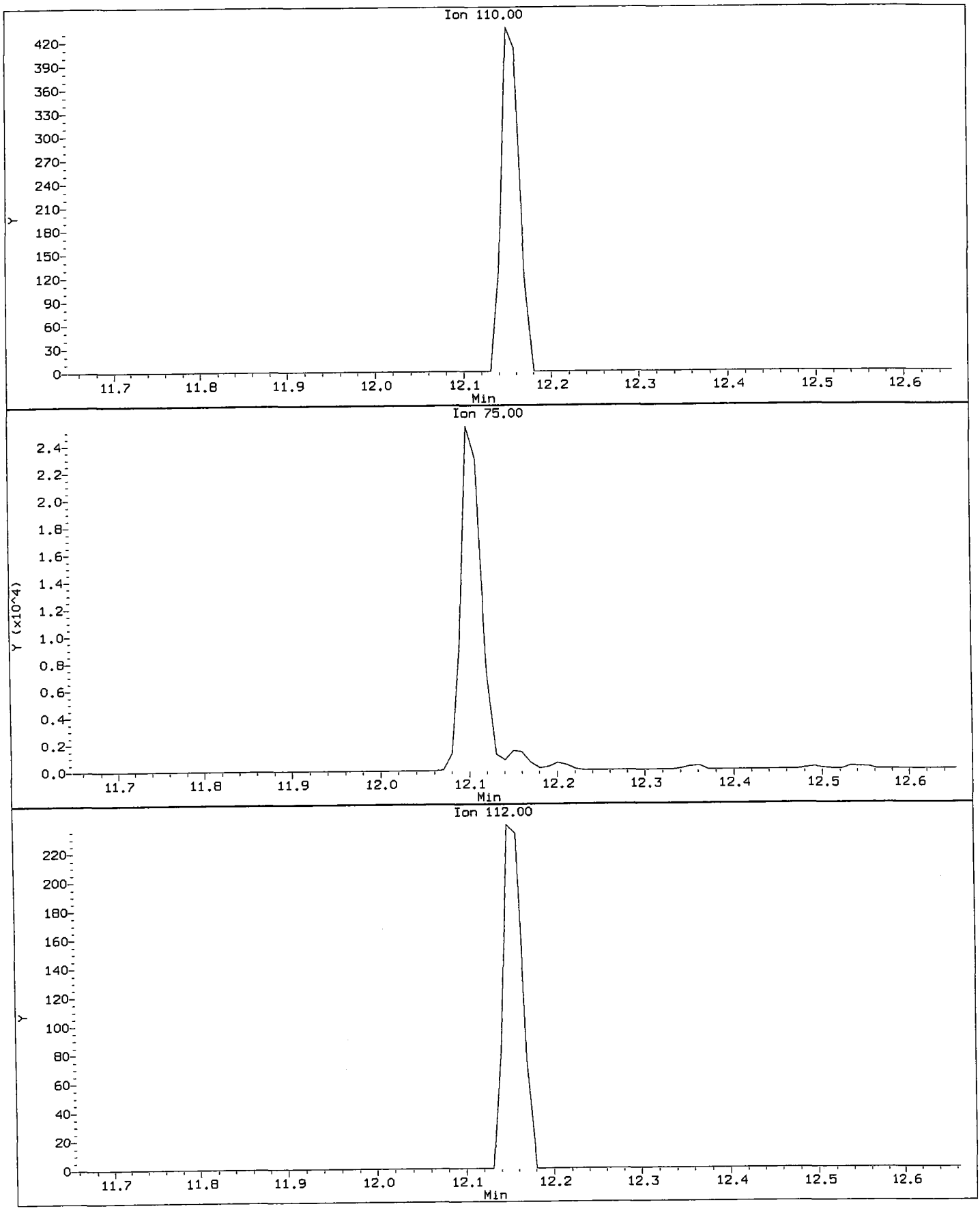
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/24/10

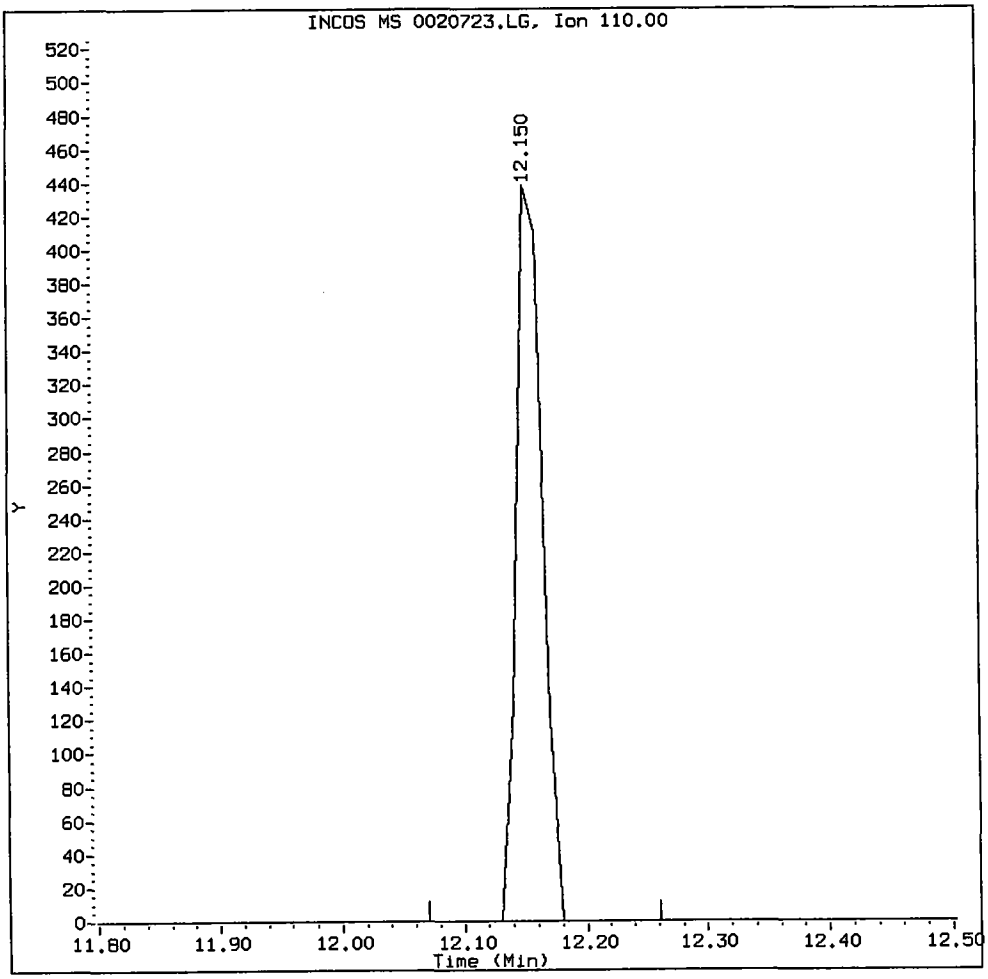
Data File: /chem1/finn5.i/23JUL10.b/0020723.d/0020723.LG
Injection Date: 23-JUL-2010 20:02
Instrument: finn5.i
Client Sample ID: VSTD002

Compound: 1,2,3-Trichloropropane
CAS Number:



IC0723, /chem1/finn5.i/23JUL10.b/0020723.d

1,2,3-Trichloropropane Amount: 2.35 Area: 662



MANUAL INTEGRATION for 1,2,3-Trichloropropane

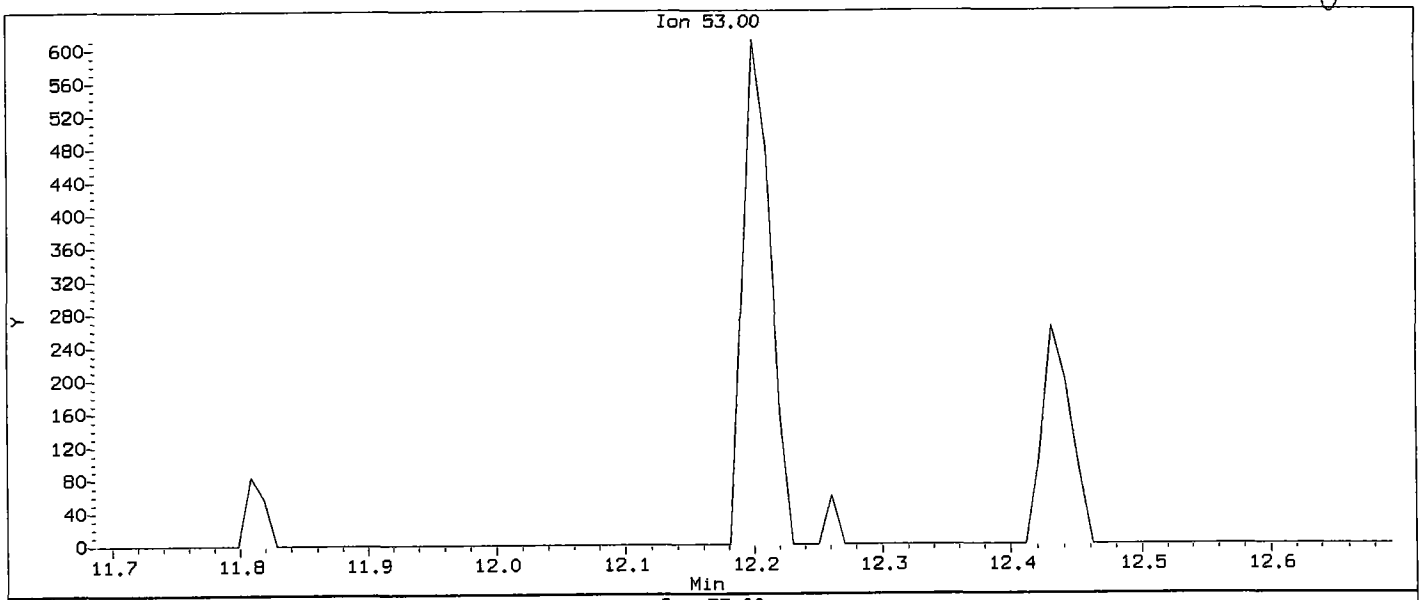
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

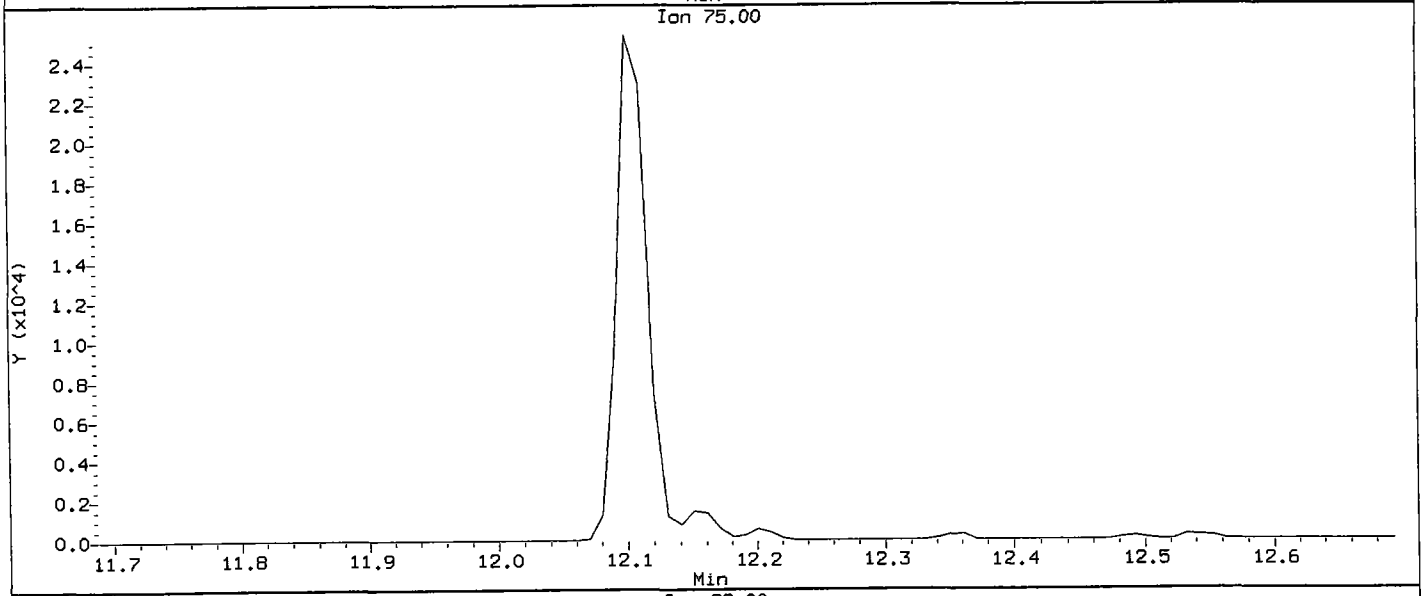
5. Other _____

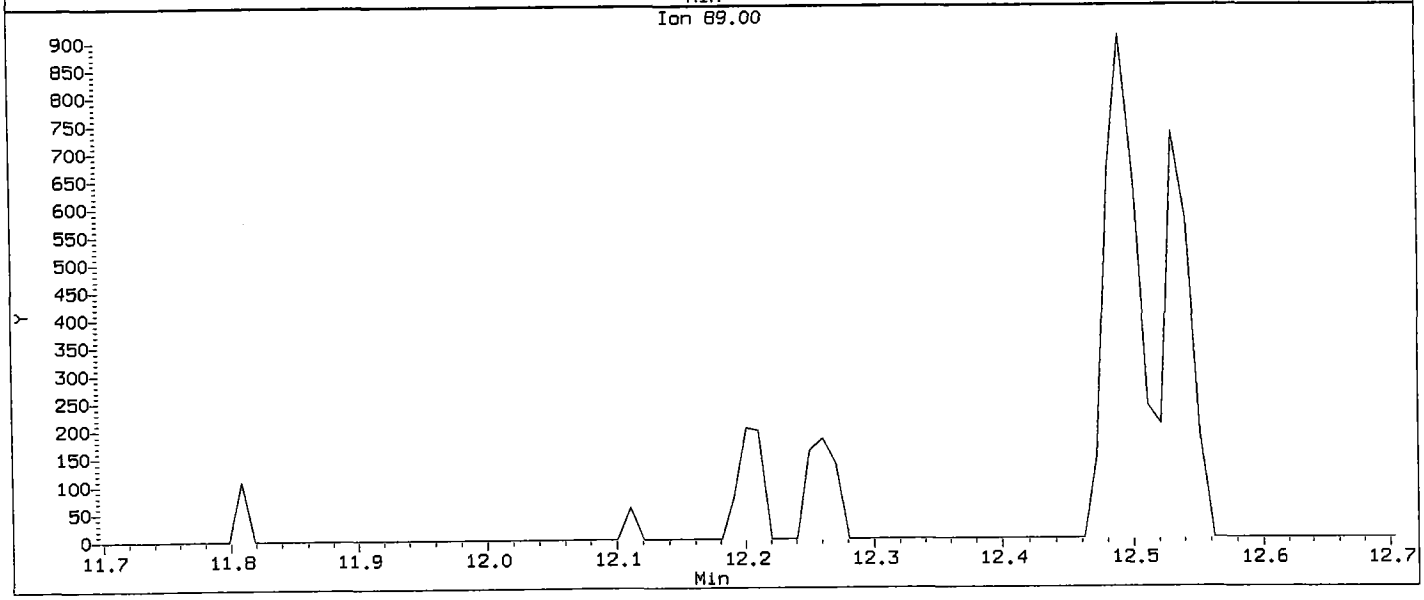
Analyst: _____ Date: 7/24/10

Data File: /chem1/finn5.i/23JUL10.b/0020723.d/0020723.LG
Injection Date: 23-JUL-2010 20:02
Instrument: finn5.i
Client Sample ID: VSTD002

Compound: Trans-1,4-Dichloro 2-Butene
CAS Number:

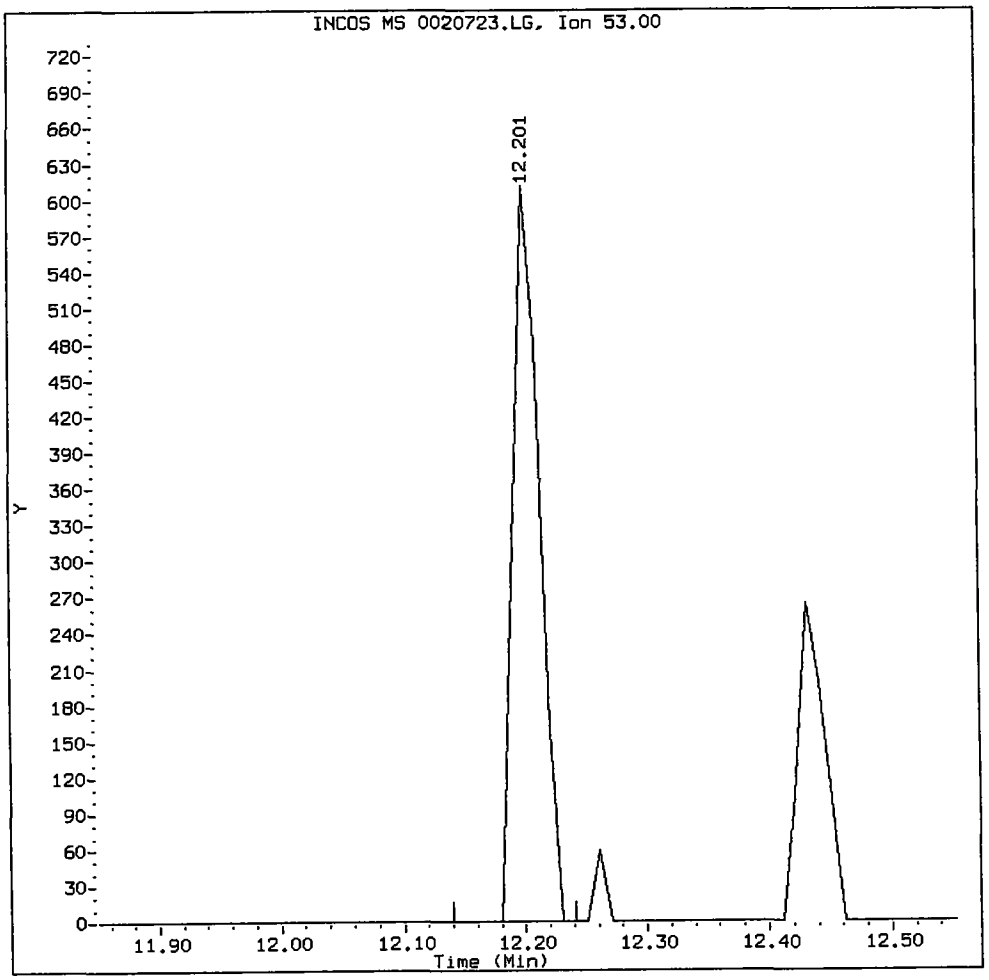






IC0723, /chem1/finn5.i/23JUL10.b/0020723.d

Trans-1,4-Dichloro 2-Butene Amount: 2.15 Area: 943



MANUAL INTEGRATION for Trans-1,4-Dichloro 2-Butene

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 2/12/10

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/23JUL10.b/0050723.d
Lab Smp Id: IC0723 Client Smp ID: VSTD005
Inj Date : 23-JUL-2010 19:35
Operator : PB Inst ID: finn5.i
Smp Info : IC0723,5,5,0
Misc Info : 10-
Comment :
Method : /chem1/finn5.i/23JUL10.b/s8260b.m
Meth Date : 29-Jul-2010 14:28 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 19:35 Cal File: 0050723.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	3.005	3.005	(0.454)	7723	5.00000	5.089
2 Chloromethane	50	3.296	3.296	(0.498)	22440	5.00000	5.496
3 Vinyl Chloride	62	3.417	3.417	(0.516)	17710	5.00000	5.485(Q)
4 Bromomethane	94	3.899	3.899	(0.589)	9090	5.00000	5.184
5 Chloroethane	64	3.970	3.970	(0.599)	11561	5.00000	5.482
6 Trichlorofluoromethane	101	4.231	4.231	(0.639)	17611	5.00000	5.643
7 Acrolein	56	4.623	4.623	(0.698)	10358	25.0000	26.607
8 112Trichloro122Trifluoroethane	101	4.633	4.633	(0.700)	14091	5.00000	5.767
9 Acetone	43	4.673	4.673	(0.706)	18358	25.0000	28.028
10 1,1-Dichloroethene	96	4.834	4.834	(0.730)	12189	5.00000	5.498
11 Bromoethane	108	5.045	5.045	(0.762)	8530	5.00000	5.195
12 Iodomethane	142	5.146	5.146	(0.777)	13373	5.00000	5.102
13 Methylene Chloride	84	5.266	5.266	(0.795)	13925	5.00000	5.578
14 Acrylonitrile	53	5.347	5.347	(0.807)	3314	5.00000	5.730(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.387	5.387	(0.813)	18920	5.00000	5.549(Q)
	15 Carbon Disulfide	76	5.367	5.367	(0.810)	39738	5.00000	5.779
	17 Trans-1,2-Dichloroethene	96	5.548	5.548	(0.838)	9438	5.00000	4.995
	18 Vinyl Acetate	43	5.869	5.869	(0.886)	17895	5.00000	5.408
	19 1,1-Dichloroethane	63	5.929	5.929	(0.895)	18913	5.00000	5.441
	20 2-Butanone	43	6.271	6.271	(0.947)	20107	25.0000	27.282
	21 2,2-Dichloropropane	77	6.452	6.452	(0.974)	10921	5.00000	5.134
	22 Cis-1,2-Dichloroethene	96	6.492	6.492	(0.980)	8398	5.00000	5.043(Q)
*	23 Pentafluorobenzene	168	6.623	6.623	(1.000)	117041	50.0000	
	24 Chloroform	83	6.633	6.633	(1.002)	15400	5.00000	5.454(Q)
	26 Bromochloromethane	128	6.804	6.804	(1.027)	4294	5.00000	5.431(Q)
$	25 Dibromofluoromethane	111	6.834	6.834	(1.032)	71812	50.0000	51.480(Q)
	27 1,1,1-Trichloroethane	97	7.025	7.025	(1.061)	11387	5.00000	5.185
	29 1,1-Dichloropropene	75	7.166	7.166	(0.939)	12169	5.00000	5.243
	30 Carbon Tetrachloride	117	7.286	7.286	(0.955)	10319	5.00000	5.112
$	31 d4-1,2-Dichloroethane	65	7.296	7.296	(1.102)	80444	50.0000	52.702
	32 1,2-Dichloroethane	62	7.387	7.387	(0.968)	10820	5.00000	5.310
	33 Benzene	78	7.437	7.437	(0.975)	30771	5.00000	5.482
*	34 1,4-Difluorobenzene	114	7.628	7.628	(1.000)	170929	50.0000	
	35 Trichloroethene	95	8.000	8.000	(1.049)	8715	5.00000	5.300
	36 1,2-Dichloropropane	63	8.161	8.161	(1.070)	9370	5.00000	5.296
	37 Bromodichloromethane	83	8.392	8.392	(1.100)	9943	5.00000	5.256
	39 Dibromomethane	93	8.462	8.462	(1.109)	4443	5.00000	5.059
	40 2-Chloroethyl Vinyl Ether	63	8.613	8.613	(1.129)	2962	5.00000	4.780(Q)
	41 4-Methyl-2-Pentanone	58	8.643	8.643	(1.133)	11309	25.0000	25.028(Q)
	42 Cis 1,3-dichloropropene	75	8.904	8.904	(1.167)	10254	5.00000	4.965
$	43 d8-Toluene	98	9.176	9.176	(1.203)	191709	50.0000	51.044
	44 Toluene	92	9.256	9.256	(1.213)	17473	5.00000	5.247
	45 Trans 1,3-Dichloropropene	75	9.387	9.387	(1.231)	8395	5.00000	4.836
	46 2-Hexanone	43	9.527	9.527	(0.884)	29526	25.0000	24.696(M)
	47 1,1,2-Trichloroethane	97	9.578	9.578	(1.256)	5519	5.00000	5.323
	48 1,3-Dichloropropane	76	9.829	9.829	(0.911)	10453	5.00000	5.078
	49 Tetrachloroethene	166	9.949	9.949	(0.923)	8262	5.00000	5.084
	50 Chlorodibromomethane	129	10.161	10.161	(0.942)	6807	5.00000	4.915
	51 1,2-Dibromoethane	107	10.382	10.382	(1.361)	5784	5.00000	5.208
*	52 d5-Chlorobenzene	117	10.784	10.784	(1.000)	146260	50.0000	
	53 Chlorobenzene	112	10.824	10.824	(1.004)	17766	5.00000	5.179
	54 Ethyl Benzene	91	10.854	10.854	(1.007)	30541	5.00000	5.264
	55 1,1,1,2-Tetrachloroethane	131	10.844	10.844	(1.006)	6409	5.00000	4.881
	56 m,p-xylene	106	10.934	10.934	(1.014)	22123	10.0000	10.434(Q)
	57 o-Xylene	106	11.427	11.427	(1.060)	10246	5.00000	4.649
	58 Styrene	104	11.457	11.457	(1.062)	16833	5.00000	4.940
	59 Isopropyl Benzene	105	11.799	11.799	(0.877)	27803	5.00000	5.452
	60 Bromoform	173	11.859	11.859	(0.881)	4268	5.00000	5.205
	61 1,1,2,2-Tetrachloroethane	83	11.980	11.980	(0.890)	7849	5.00000	5.327
$	62 4-Bromofluorobenzene	95	12.100	12.100	(1.122)	81582	50.0000	47.660
	63 1,2,3-Trichloropropane	110	12.150	12.150	(0.903)	1675	5.00000	5.738

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	12.201	12.201	(0.907)	2468	5.00000	5.450(QM)
66	N-Propyl Benzene	91	12.261	12.261	(0.911)	34800	5.00000	5.286
67	Bromobenzene	156	12.341	12.341	(0.917)	7362	5.00000	5.178
68	1,3,5-Trimethyl Benzene	105	12.432	12.432	(0.924)	22104	5.00000	5.339
69	2-Chloro Toluene	91	12.492	12.492	(0.928)	23284	5.00000	5.382
70	4-Chloro Toluene	91	12.532	12.532	(0.931)	21819	5.00000	5.262
71	T-Butyl Benzene	119	12.844	12.844	(0.954)	19493	5.00000	5.504
72	1,2,4-Trimethylbenzene	105	12.884	12.884	(0.957)	21602	5.00000	5.301
73	S-Butyl Benzene	105	13.085	13.085	(0.972)	30183	5.00000	5.180
74	4-Isopropyl Toluene	119	13.236	13.236	(0.984)	21391	5.00000	5.350
75	1,3-Dichlorobenzene	146	13.377	13.377	(0.994)	12682	5.00000	5.221
* 76	d4-1,4-Dichlorobenzene	152	13.457	13.457	(1.000)	75761	50.0000	
77	1,4-Dichlorobenzene	146	13.497	13.497	(1.003)	12899	5.00000	5.307
78	N-Butyl Benzene	91	13.708	13.708	(1.019)	23070	5.00000	5.344
$ 79	d4-1,2-Dichlorobenzene	152	13.909	13.909	(1.034)	69719	50.0000	50.593
80	1,2-Dichlorobenzene	146	13.939	13.939	(1.036)	12406	5.00000	5.374
81	1,2-Dibromo 3-Chloropropane	75	14.844	14.844	(1.103)	1436	5.00000	5.632
82	1,2,4-Trichlorobenzene	180	15.889	15.889	(1.181)	7355	5.00000	5.236
83	Hexachloro 1,3-Butadiene	225	16.040	16.040	(1.192)	5223	5.00000	5.520
84	Naphthalene	128	16.211	16.211	(1.205)	13199	5.00000	5.180
85	1,2,3-Trichlorobenzene	180	16.502	16.502	(1.226)	7275	5.00000	5.417

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 0050723.d
Lab Smp Id: IC0723
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 18:42
Client Smp ID: VSTD005
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	117041	-10.73
34 1,4-Difluorobenze	191559	95780	383118	170929	-10.77
52 d5-Chlorobenzene	161199	80600	322398	146260	-9.27
76 d4-1,4-Dichlorobe	88279	44140	176558	75761	-14.18

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.62	0.00
34 1,4-Difluorobenze	7.63	7.13	8.13	7.63	0.00
52 d5-Chlorobenzene	10.78	10.28	11.28	10.78	0.00
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.46	-0.07

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/finn5.i/23JUL10.b/0050723.d

Date : 23-JUL-2010 19:35

Client ID: VSTD005

Sample Info: IC0723,5,5,0

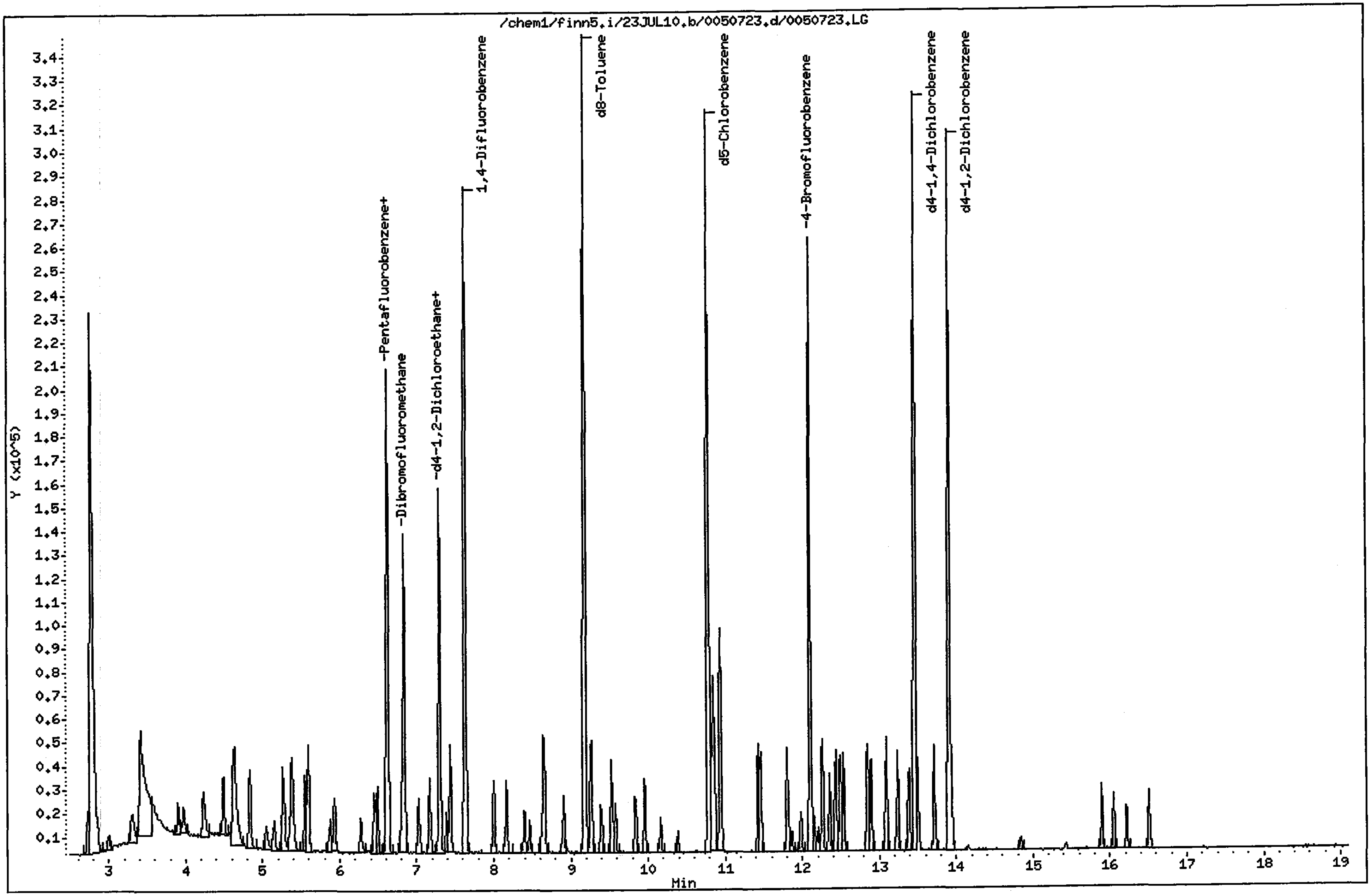
Column phase: Rtx502.2

Page 5

Instrument: finn5.i

Operator: PB

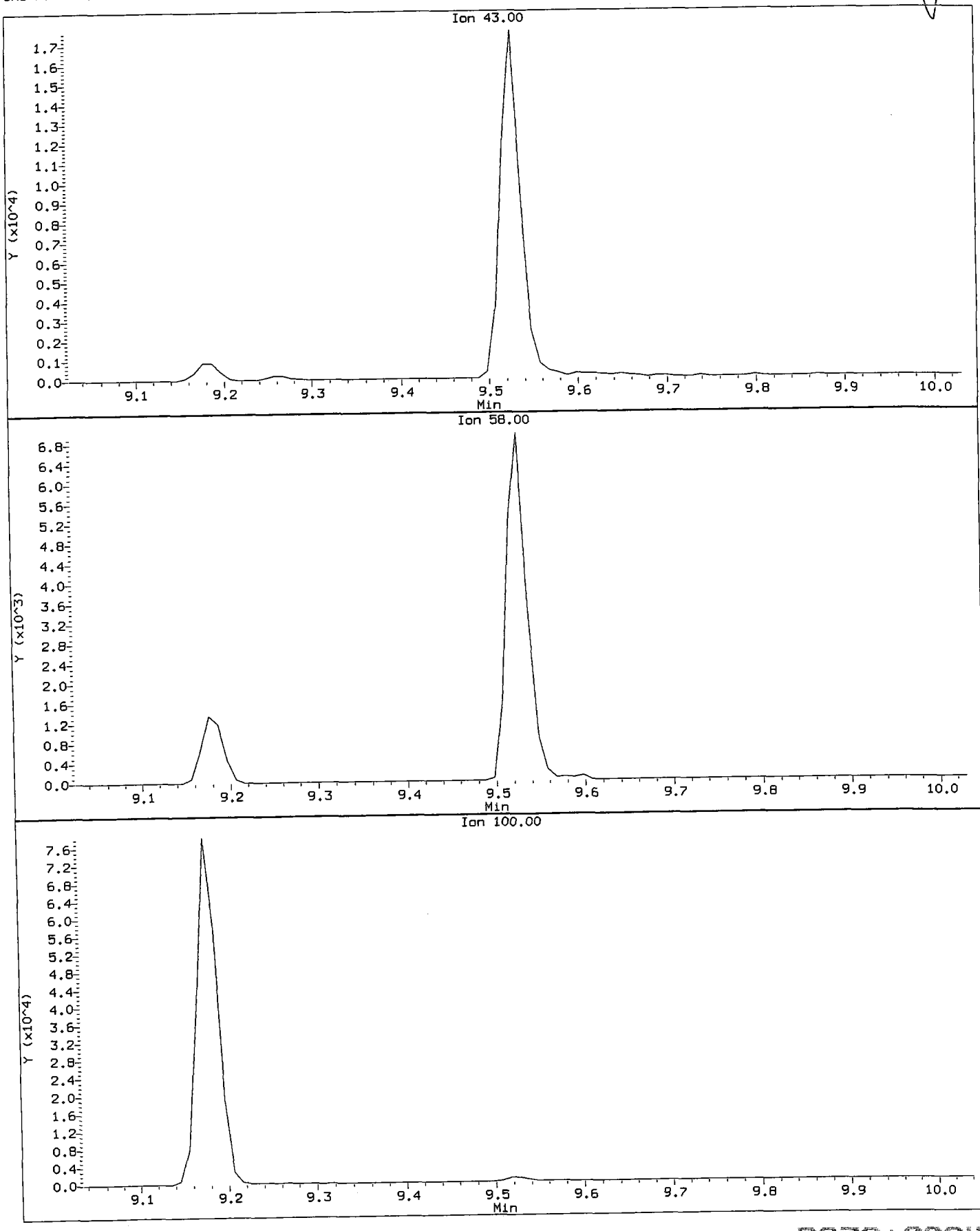
Column diameter: 0.18



RG79:00344

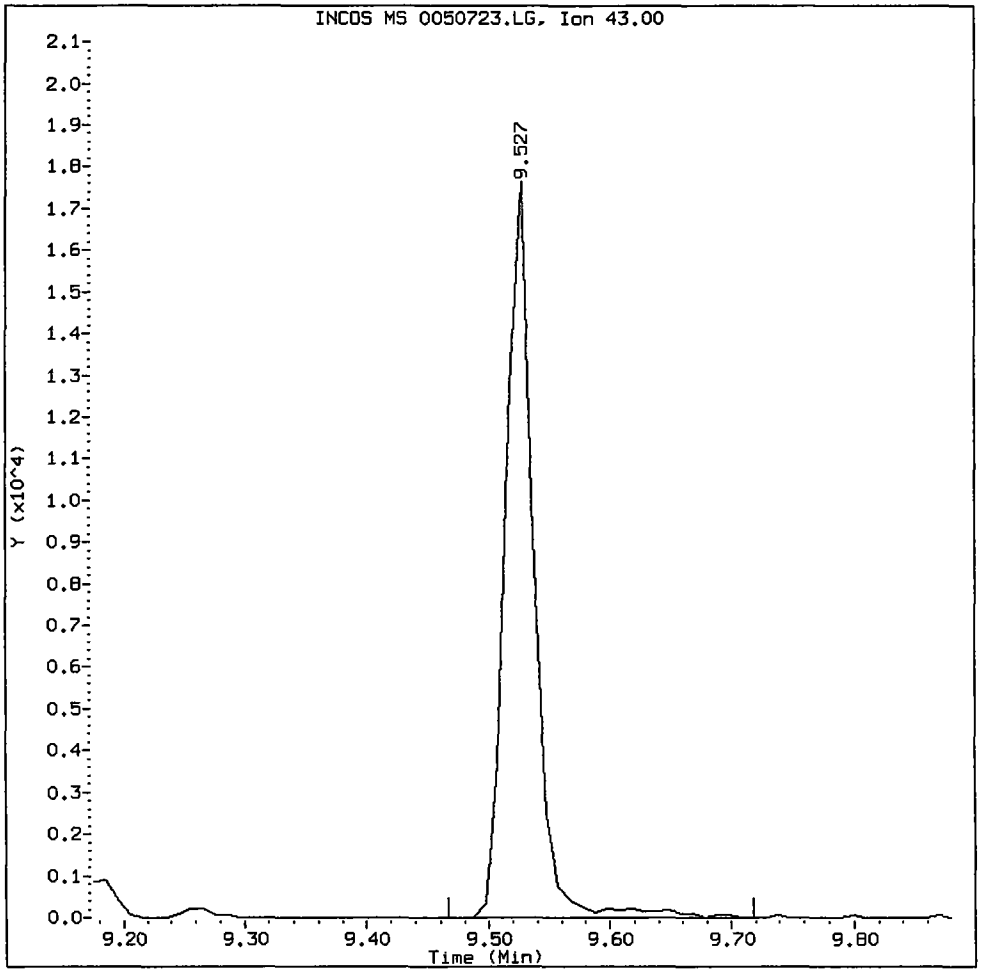
Data File: /chem1/finn5.i/23JUL10.b/0050723.d/0050723.LG
Injection Date: 23-JUL-2010 19:35
Instrument: finn5.i
Client Sample ID: VSTD005

Compound: 2-Hexanone
CAS Number:



IC0723, /chem1/finn5.i/23JUL10.b/0050723.d

2-Hexanone Amount: 24.70 Area: 29526



MANUAL INTEGRATION for 2-Hexanone

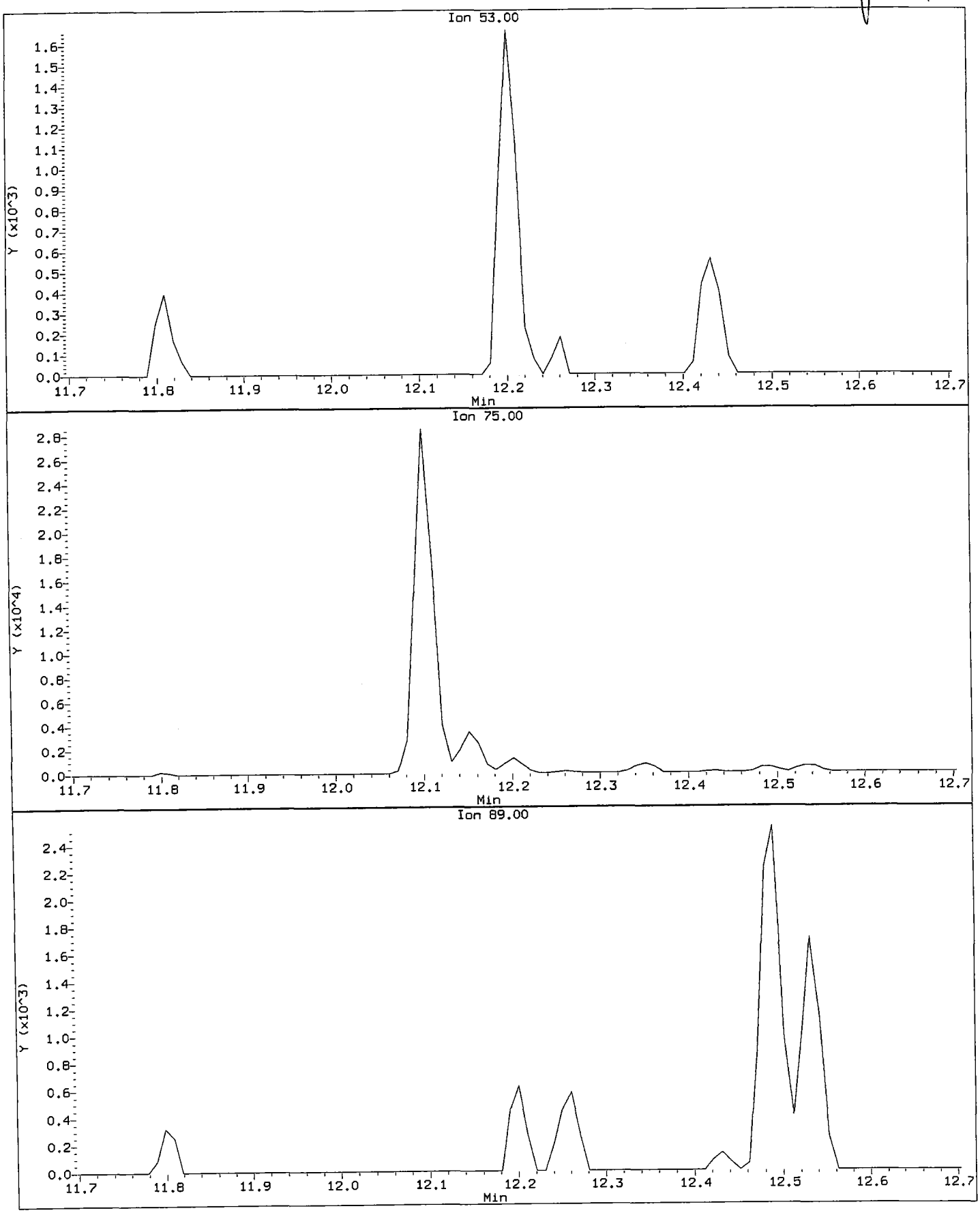
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/12/10

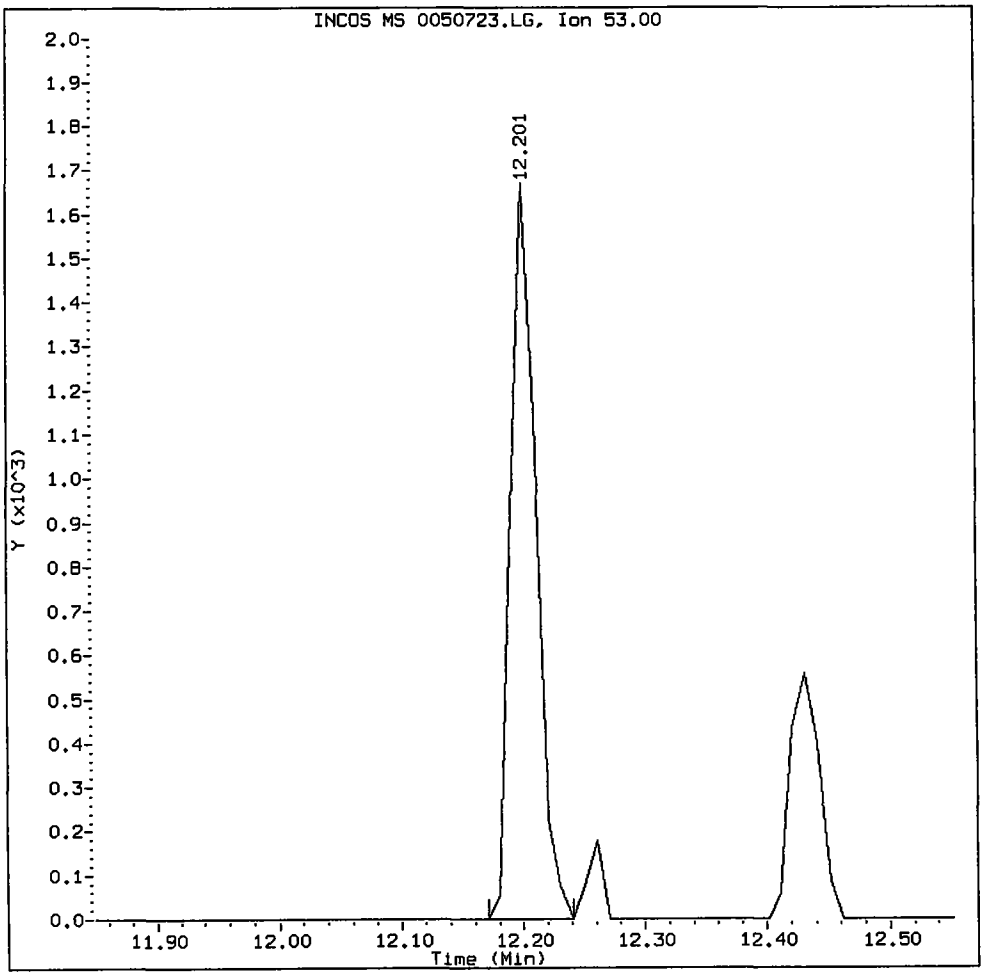
Data File: /chem1/finn5.i/23JUL10.b/0050723.d/0050723.LG
Injection Date: 23-JUL-2010 19:35
Instrument: finn5.i
Client Sample ID: VSTD005

Compound: Trans-1,4-Dichloro 2-Butene
CAS Number:



IC0723, /chem1/finn5.i/23JUL10.b/0050723.d

Trans-1,4-Dichloro 2-Butene Amount: 5.45 Area: 2468



MANUAL INTEGRATION for Trans-1,4-Dichloro 2-Butene

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 7/14/10

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/23JUL10.b/0100723.d
Lab Smp Id: IC0723 Client Smp ID: VSTD010
Inj Date : 23-JUL-2010 19:09
Operator : PB Inst ID: finn5.i
Smp Info : IC0723,5,5,0
Misc Info : 10-
Comment :
Method : /chem1/finn5.i/23JUL10.b/s8260b.m
Meth Date : 29-Jul-2010 14:29 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 19:09 Cal File: 0100723.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	3.005	3.005	(0.454)	15067	10.0000	9.770
2 Chloromethane	50	3.306	3.306	(0.499)	47789	10.0000	11.518
3 Vinyl Chloride	62	3.407	3.407	(0.514)	37997	10.0000	11.580(Q)
4 Bromomethane	94	3.899	3.899	(0.589)	14872	10.0000	8.346
5 Chloroethane	64	3.970	3.970	(0.599)	20719	10.0000	9.669
6 Trichlorofluoromethane	101	4.231	4.231	(0.639)	33546	10.0000	10.578
7 Acrolein	56	4.623	4.623	(0.698)	19450	50.0000	49.169
8 112Trichloro122Trifluoroethane	101	4.633	4.633	(0.700)	26723	10.0000	10.764
9 Acetone	43	4.673	4.673	(0.706)	35817	50.0000	53.814
10 1,1-Dichloroethene	96	4.834	4.834	(0.730)	24541	10.0000	10.893
11 Bromoethane	108	5.055	5.055	(0.763)	17903	10.0000	10.731
12 Iodomethane	142	5.146	5.146	(0.777)	27119	10.0000	10.181
13 Methylene Chloride	84	5.266	5.266	(0.795)	26821	10.0000	10.573
14 Acrylonitrile	53	5.357	5.357	(0.809)	6777	10.0000	11.533(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.397	5.397	(0.815)	38803	10.0000	11.200(Q)
	15 Carbon Disulfide	76	5.367	5.367	(0.810)	78061	10.0000	11.172
	17 Trans-1,2-Dichloroethene	96	5.548	5.548	(0.838)	21284	10.0000	11.086
	18 Vinyl Acetate	43	5.869	5.869	(0.886)	37100	10.0000	11.033
	19 1,1-Dichloroethane	63	5.929	5.929	(0.895)	39819	10.0000	11.274
	20 2-Butanone	43	6.281	6.281	(0.948)	42020	50.0000	56.109
	21 2,2-Dichloropropane	77	6.452	6.452	(0.974)	22630	10.0000	10.471
	22 Cis-1,2-Dichloroethene	96	6.492	6.492	(0.980)	18047	10.0000	10.665
*	23 Pentafluorobenzene	168	6.623	6.623	(1.000)	118930	50.0000	
	24 Chloroform	83	6.633	6.633	(1.002)	31386	10.0000	10.940
	26 Bromochloromethane	128	6.804	6.804	(1.027)	8495	10.0000	10.574
$	25 Dibromofluoromethane	111	6.834	6.834	(1.032)	69715	50.0000	49.182(Q)
	27 1,1,1-Trichloroethane	97	7.025	7.025	(1.061)	23434	10.0000	10.502
	29 1,1-Dichloropropene	75	7.166	7.166	(0.939)	25745	10.0000	11.267
	30 Carbon Tetrachloride	117	7.286	7.286	(0.955)	21209	10.0000	10.673
$	31 d4-1,2-Dichloroethane	65	7.296	7.296	(1.102)	76858	50.0000	49.553
	32 1,2-Dichloroethane	62	7.387	7.387	(0.968)	22825	10.0000	11.378
	33 Benzene	78	7.437	7.437	(0.975)	66143	10.0000	11.970
*	34 1,4-Difluorobenzene	114	7.628	7.628	(1.000)	168271	50.0000	
	35 Trichloroethene	95	8.000	8.000	(1.049)	18174	10.0000	11.226
	36 1,2-Dichloropropane	63	8.161	8.161	(1.070)	19596	10.0000	11.250
	37 Bromodichloromethane	83	8.402	8.402	(1.101)	20319	10.0000	10.911
	39 Dibromomethane	93	8.472	8.472	(1.111)	9683	10.0000	11.199
	40 2-Chloroethyl Vinyl Ether	63	8.613	8.613	(1.129)	6388	10.0000	10.472(Q)
	41 4-Methyl-2-Pentanone	58	8.653	8.653	(1.134)	24009	50.0000	53.974
	42 Cis 1,3-dichloropropene	75	8.904	8.904	(1.167)	22221	10.0000	10.929
$	43 d8-Toluene	98	9.176	9.176	(1.203)	186138	50.0000	50.343
	44 Toluene	92	9.266	9.266	(1.215)	35399	10.0000	10.798
	45 Trans 1,3-Dichloropropene	75	9.397	9.397	(1.232)	18193	10.0000	10.645
	46 2-Hexanone	43	9.527	9.527	(0.884)	61774	50.0000	53.599
	47 1,1,2-Trichloroethane	97	9.578	9.578	(1.256)	11407	10.0000	11.176
	48 1,3-Dichloropropane	76	9.829	9.829	(0.911)	21313	10.0000	10.740
	49 Tetrachloroethene	166	9.949	9.949	(0.923)	15981	10.0000	10.202
	50 Chlorodibromomethane	129	10.161	10.161	(0.942)	14166	10.0000	10.612
	51 1,2-Dibromoethane	107	10.382	10.382	(1.361)	11754	10.0000	10.752
*	52 d5-Chlorobenzene	117	10.784	10.784	(1.000)	140990	50.0000	
	53 Chlorobenzene	112	10.824	10.824	(1.004)	36224	10.0000	10.954
	54 Ethyl Benzene	91	10.854	10.854	(1.007)	63957	10.0000	11.437
	55 1,1,1,2-Tetrachloroethane	131	10.844	10.844	(1.006)	12790	10.0000	10.106
	56 m,p-xylene	106	10.934	10.934	(1.014)	46275	20.0000	22.640(Q)
	57 o-Xylene	106	11.427	11.427	(1.060)	21803	10.0000	10.264
	58 Styrene	104	11.457	11.457	(1.062)	37240	10.0000	11.338
	59 Isopropyl Benzene	105	11.809	11.809	(0.878)	58882	10.0000	12.124
	60 Bromoform	173	11.869	11.869	(0.882)	8420	10.0000	10.783
	61 1,1,2,2-Tetrachloroethane	83	11.980	11.980	(0.890)	16250	10.0000	11.581
$	62 4-Bromofluorobenzene	95	12.100	12.100	(1.122)	77668	50.0000	47.070
	63 1,2,3-Trichloropropane	110	12.150	12.150	(0.903)	3269	10.0000	11.760

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
65 Trans-1,4-Dichloro 2-Butene	53	12.201	12.201	(0.907)	5035	10.0000	11.675
66 N-Propyl Benzene	91	12.261	12.261	(0.911)	74061	10.0000	11.812
67 Bromobenzene	156	12.351	12.351	(0.918)	15265	10.0000	11.274
68 1,3,5-Trimethyl Benzene	105	12.432	12.432	(0.924)	46547	10.0000	11.806
69 2-Chloro Toluene	91	12.492	12.492	(0.928)	48661	10.0000	11.812
70 4-Chloro Toluene	91	12.532	12.532	(0.931)	47584	10.0000	12.050
71 T-Butyl Benzene	119	12.844	12.844	(0.954)	41330	10.0000	12.254
72 1,2,4-Trimethylbenzene	105	12.894	12.894	(0.958)	47036	10.0000	12.119
73 S-Butyl Benzene	105	13.085	13.085	(0.972)	64271	10.0000	11.583
74 4-Isopropyl Toluene	119	13.236	13.236	(0.984)	45887	10.0000	12.052
75 1,3-Dichlorobenzene	146	13.387	13.387	(0.995)	27596	10.0000	11.930
* 76 d4-1,4-Dichlorobenzene	152	13.457	13.457	(1.000)	72150	50.0000	
77 1,4-Dichlorobenzene	146	13.497	13.497	(1.003)	26532	10.0000	11.462
78 N-Butyl Benzene	91	13.708	13.708	(1.019)	49500	10.0000	12.040
$ 79 d4-1,2-Dichlorobenzene	152	13.909	13.909	(1.034)	66793	50.0000	50.895
80 1,2-Dichlorobenzene	146	13.939	13.939	(1.036)	25247	10.0000	11.484
81 1,2-Dibromo 3-Chloropropane	75	14.844	14.844	(1.103)	2894	10.0000	11.920
82 1,2,4-Trichlorobenzene	180	15.889	15.889	(1.181)	16254	10.0000	12.150
83 Hexachloro 1,3-Butadiene	225	16.040	16.040	(1.192)	10838	10.0000	12.028
84 Naphthalene	128	16.221	16.221	(1.205)	30211	10.0000	12.450
85 1,2,3-Trichlorobenzene	180	16.502	16.502	(1.226)	16393	10.0000	12.817

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 0100723.d
Lab Smp Id: IC0723
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 18:42
Client Smp ID: VSTD010
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	118930	-9.29
34 1,4-Difluorobenze	191559	95780	383118	168271	-12.16
52 d5-Chlorobenzene	161199	80600	322398	140990	-12.54
76 d4-1,4-Dichlorobe	88279	44140	176558	72150	-18.27

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.62	0.00
34 1,4-Difluorobenze	7.63	7.13	8.13	7.63	0.00
52 d5-Chlorobenzene	10.78	10.28	11.28	10.78	0.00
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.46	-0.07

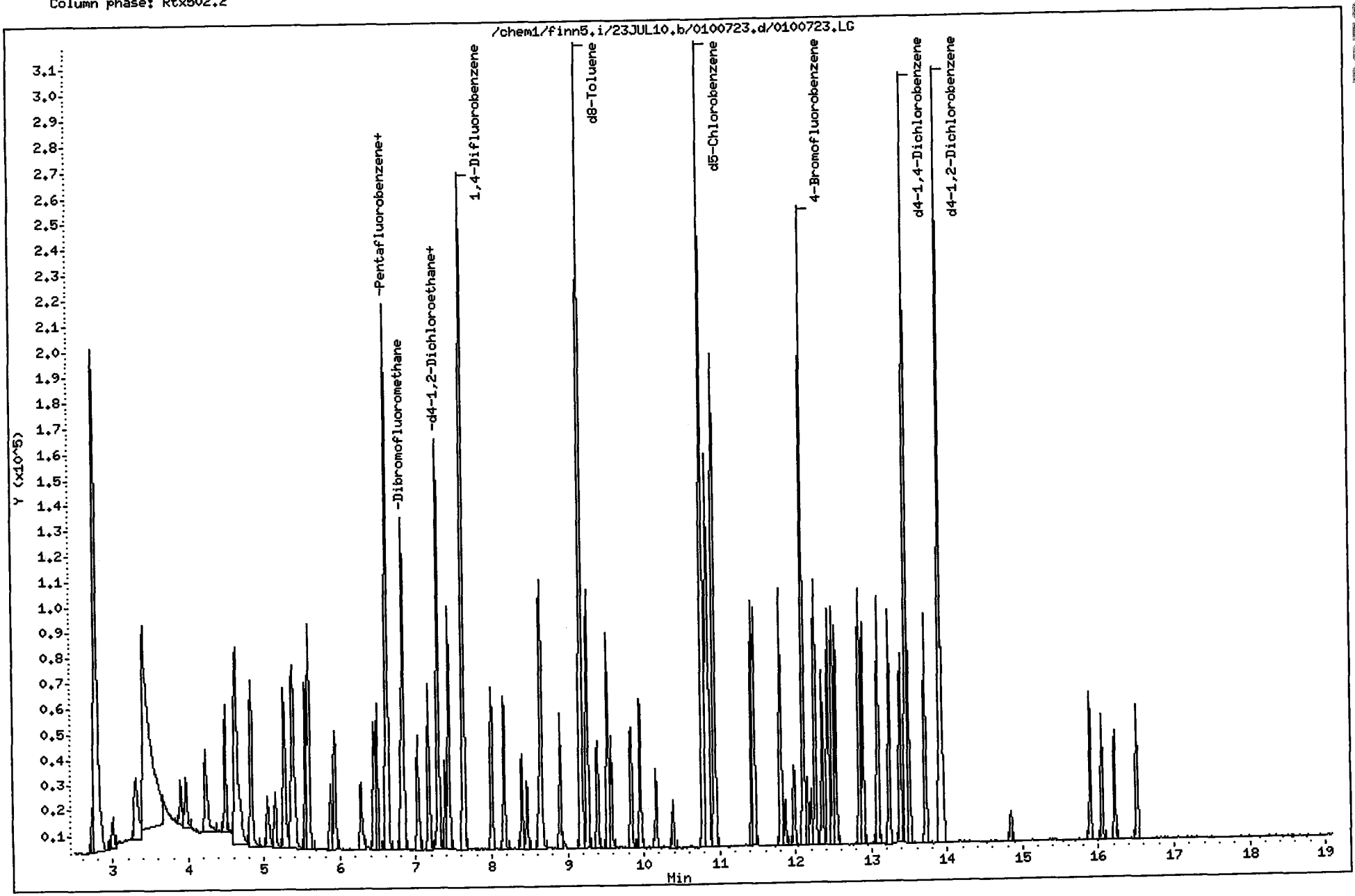
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/finn5.i/23JUL10.b/0100723.d
Date : 23-JUL-2010 19:09
Client ID: VSTD010
Sample Info: IC0723,5,5,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



RG79:00353

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/23JUL10.b/0500723.d
Lab Smp Id: IC0723 Client Smp ID: VSTD050
Inj Date : 23-JUL-2010 18:42
Operator : PB Inst ID: finn5.i
Smp Info : IC0723,5,5,0
Misc Info : 10-
Comment :
Method : /chem1/finn5.i/23JUL10.b/s8260b.m
Meth Date : 29-Jul-2010 14:29 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 18:42 Cal File: 0500723.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	3.005	3.005	(0.454)	88494	50.0000	52.050
2 Chloromethane	50	3.306	3.306	(0.499)	216660	50.0000	47.364
3 Vinyl Chloride	62	3.417	3.417	(0.516)	178705	50.0000	49.403
4 Bromomethane	94	3.909	3.909	(0.590)	106254	50.0000	54.088
5 Chloroethane	64	3.980	3.980	(0.601)	114914	50.0000	48.645
6 Trichlorofluoromethane	101	4.241	4.241	(0.640)	187024	50.0000	53.495
7 Acrolein	56	4.623	4.623	(0.698)	103002	250.000	236.19
8 112Trichloro122Trifluoroethane	101	4.633	4.633	(0.700)	132979	50.0000	48.585
9 Acetone	43	4.673	4.673	(0.706)	175977	250.000	239.83
10 1,1-Dichloroethene	96	4.834	4.834	(0.730)	128370	50.0000	51.685
11 Bromoethane	108	5.055	5.055	(0.763)	95360	50.0000	51.846
12 Iodomethane	142	5.156	5.156	(0.778)	164295	50.0000	55.947
13 Methylene Chloride	84	5.266	5.266	(0.795)	122611	50.0000	43.842
14 Acrylonitrile	53	5.357	5.357	(0.809)	34222	50.0000	52.824

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.397	5.397	(0.815)	199902	50.0000	52.338
	15 Carbon Disulfide	76	5.377	5.377	(0.812)	416399	50.0000	54.056
	17 Trans-1,2-Dichloroethene	96	5.558	5.558	(0.839)	104060	50.0000	49.162
	18 Vinyl Acetate	43	5.879	5.879	(0.888)	204622	50.0000	55.196
	19 1,1-Dichloroethane	63	5.940	5.940	(0.897)	201091	50.0000	51.642
	20 2-Butanone	43	6.281	6.281	(0.948)	214832	250.000	260.20
	21 2,2-Dichloropropane	77	6.452	6.452	(0.974)	119721	50.0000	50.246
	22 Cis-1,2-Dichloroethene	96	6.492	6.492	(0.980)	90699	50.0000	48.618
*	23 Pentafluorobenzene	168	6.623	6.623	(1.000)	131115	50.0000	
	24 Chloroform	83	6.643	6.643	(1.003)	157700	50.0000	49.859
	26 Bromochloromethane	128	6.804	6.804	(1.027)	43978	50.0000	49.652
$	25 Dibromofluoromethane	111	6.844	6.844	(1.033)	78499	50.0000	50.233
	27 1,1,1-Trichloroethane	97	7.025	7.025	(1.061)	122308	50.0000	49.717
	29 1,1-Dichloropropene	75	7.176	7.176	(0.941)	128968	50.0000	49.578
	30 Carbon Tetrachloride	117	7.286	7.286	(0.955)	109284	50.0000	48.311
$	31 d4-1,2-Dichloroethane	65	7.306	7.306	(1.103)	84334	50.0000	49.320
	32 1,2-Dichloroethane	62	7.387	7.387	(0.968)	112274	50.0000	49.165
	33 Benzene	78	7.437	7.437	(0.975)	317315	50.0000	50.445
*	34 1,4-Difluorobenzene	114	7.628	7.628	(1.000)	191559	50.0000	
	35 Trichloroethene	95	8.000	8.000	(1.049)	89737	50.0000	48.692
	36 1,2-Dichloropropane	63	8.171	8.171	(1.071)	96034	50.0000	48.432
	37 Bromodichloromethane	83	8.402	8.402	(1.101)	103931	50.0000	49.024
	39 Dibromomethane	93	8.472	8.472	(1.111)	47687	50.0000	48.448
	40 2-Chloroethyl Vinyl Ether	63	8.613	8.613	(1.129)	35475	50.0000	51.086
	41 4-Methyl-2-Pentanone	58	8.653	8.653	(1.134)	127285	250.000	251.36
	42 Cis 1,3-dichloropropene	75	8.904	8.904	(1.167)	122153	50.0000	52.775
$	43 d8-Toluene	98	9.186	9.186	(1.204)	213313	50.0000	50.679
	44 Toluene	92	9.266	9.266	(1.215)	176514	50.0000	47.296
	45 Trans 1,3-Dichloropropene	75	9.397	9.397	(1.232)	99882	50.0000	51.339
	46 2-Hexanone	43	9.527	9.527	(0.884)	307458	250.000	233.33
	47 1,1,2-Trichloroethane	97	9.578	9.578	(1.256)	56632	50.0000	48.742
	48 1,3-Dichloropropane	76	9.839	9.839	(0.912)	109236	50.0000	48.147
	49 Tetrachloroethene	166	9.960	9.960	(0.924)	78929	50.0000	44.072
	50 Chlorodibromomethane	129	10.161	10.161	(0.942)	72980	50.0000	47.816
	51 1,2-Dibromoethane	107	10.392	10.392	(1.362)	61687	50.0000	49.567
*	52 d5-Chlorobenzene	117	10.784	10.784	(1.000)	161199	50.0000	
	53 Chlorobenzene	112	10.824	10.824	(1.004)	176231	50.0000	46.611
	54 Ethyl Benzene	91	10.854	10.854	(1.007)	325754	50.0000	50.948
	55 1,1,1,2-Tetrachloroethane	131	10.854	10.854	(1.007)	62748	50.0000	43.363
	56 m,p-xylene	106	10.934	10.934	(1.014)	247468	100.000	105.89
	57 o-Xylene	106	11.427	11.427	(1.060)	120870	50.0000	49.766
	58 Styrene	104	11.457	11.457	(1.062)	197957	50.0000	52.713
	59 Isopropyl Benzene	105	11.809	11.809	(0.877)	321007	50.0000	54.019
	60 Bromoform	173	11.869	11.869	(0.881)	45981	50.0000	48.125
	61 1,1,2,2-Tetrachloroethane	83	11.990	11.990	(0.890)	80952	50.0000	47.153
$	62 4-Bromofluorobenzene	95	12.100	12.100	(1.122)	91332	50.0000	48.412
	63 1,2,3-Trichloropropane	110	12.150	12.150	(0.902)	16376	50.0000	48.148

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	65 Trans-1,4-Dichloro 2-Butene	53	12.211	12.211	(0.907)	26610	50.0000	50.430
	66 N-Propyl Benzene	91	12.261	12.261	(0.910)	378862	50.0000	49.387
	67 Bromobenzene	156	12.351	12.351	(0.917)	80968	50.0000	48.876
	68 1,3,5-Trimethyl Benzene	105	12.432	12.432	(0.923)	264645	50.0000	54.862
	69 2-Chloro Toluene	91	12.492	12.492	(0.928)	248038	50.0000	49.208
	70 4-Chloro Toluene	91	12.532	12.532	(0.931)	261192	50.0000	54.058
	71 T-Butyl Benzene	119	12.844	12.844	(0.954)	232931	50.0000	56.443
	72 1,2,4-Trimethylbenzene	105	12.894	12.894	(0.957)	260230	50.0000	54.800
	73 S-Butyl Benzene	105	13.095	13.095	(0.972)	355887	50.0000	52.419
	74 4-Isopropyl Toluene	119	13.236	13.236	(0.983)	260120	50.0000	55.837
	75 1,3-Dichlorobenzene	146	13.387	13.387	(0.994)	145285	50.0000	51.333
*	76 d4-1,4-Dichlorobenzene	152	13.467	13.467	(1.000)	88279	50.0000	
	77 1,4-Dichlorobenzene	146	13.497	13.497	(1.002)	140968	50.0000	49.774
	78 N-Butyl Benzene	91	13.718	13.718	(1.019)	273888	50.0000	54.445
$	79 d4-1,2-Dichlorobenzene	152	13.909	13.909	(1.033)	81684	50.0000	50.870
	80 1,2-Dichlorobenzene	146	13.939	13.939	(1.035)	133963	50.0000	49.803
	81 1,2-Dibromo 3-Chloropropane	75	14.844	14.844	(1.102)	15128	50.0000	50.924
	82 1,2,4-Trichlorobenzene	180	15.889	15.889	(1.180)	75938	50.0000	46.392
	83 Hexachloro 1,3-Butadiene	225	16.050	16.050	(1.192)	52008	50.0000	47.175
	84 Naphthalene	128	16.221	16.221	(1.204)	142809	50.0000	48.101
	85 1,2,3-Trichlorobenzene	180	16.512	16.512	(1.226)	71413	50.0000	45.633

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 0500723.d
Lab Smp Id: IC0723
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 18:42
Client Smp ID: VSTD050
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	131115	0.00
34 1,4-Difluorobenze	191559	95780	383118	191559	0.00
52 d5-Chlorobenzene	161199	80600	322398	161199	0.00
76 d4-1,4-Dichlorobe	88279	44140	176558	88279	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.62	0.00
34 1,4-Difluorobenze	7.63	7.13	8.13	7.63	0.00
52 d5-Chlorobenzene	10.78	10.28	11.28	10.78	0.00
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.47	0.00

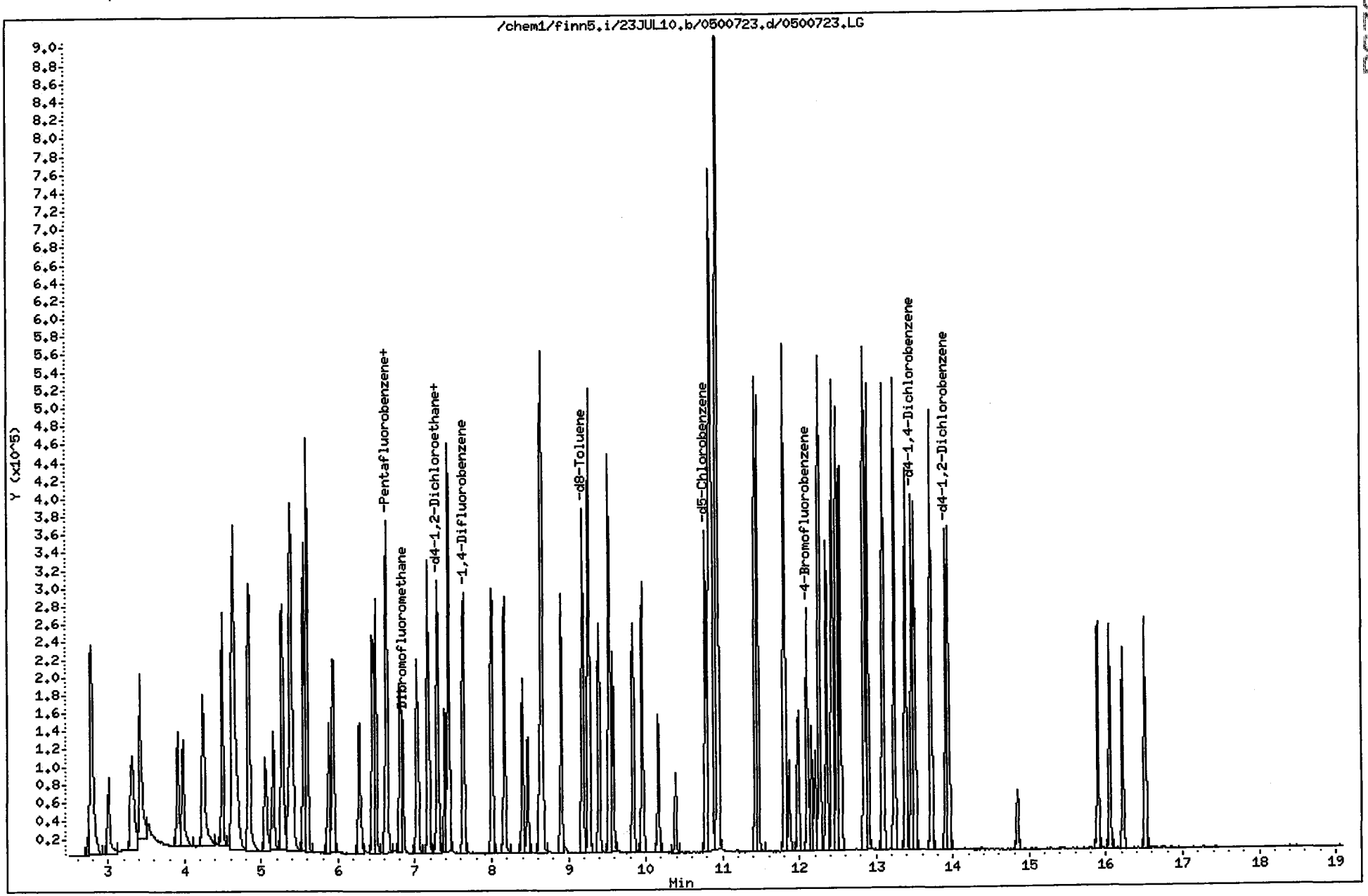
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/finn5.i/23JUL10.b/0500723.d
Date : 23-JUL-2010 18:42
Client ID: VSTD050
Sample Info: IC0723,5,5,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/23JUL10.b/1000723.d
Lab Smp Id: IC0723 Client Smp ID: VSTD100
Inj Date : 23-JUL-2010 18:16
Operator : PB Inst ID: finn5.i
Smp Info : IC0723,5,5,0
Misc Info : 10-
Comment :
Method : /chem1/finn5.i/23JUL10.b/s8260b.m
Meth Date : 29-Jul-2010 14:29 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 18:16 Cal File: 1000723.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	3.005	3.005	(0.454)	182544	100.000	104.02
2 Chloromethane	50	3.306	3.306	(0.499)	423802	100.000	89.759
3 Vinyl Chloride	62	3.417	3.417	(0.516)	367442	100.000	98.412
4 Bromomethane	94	3.909	3.909	(0.590)	208154	100.000	102.66
5 Chloroethane	64	3.980	3.980	(0.601)	210640	100.000	86.388
6 Trichlorofluoromethane	101	4.241	4.241	(0.640)	346453	100.000	96.008
7 Acrolein	56	4.633	4.633	(0.700)	197468	500.000	438.68
8 112Trichloro122Trifluoroethane	101	4.643	4.643	(0.701)	264194	100.000	93.516
9 Acetone	43	4.683	4.683	(0.707)	329833	500.000	435.50
10 1,1-Dichloroethene	96	4.834	4.834	(0.730)	252737	100.000	98.586
11 Bromoethane	108	5.055	5.055	(0.763)	196835	100.000	103.68
12 Iodomethane	142	5.156	5.156	(0.778)	339831	100.000	112.12
13 Methylene Chloride	84	5.276	5.276	(0.797)	251445	100.000	87.107
14 Acrylonitrile	53	5.357	5.357	(0.809)	69928	100.000	104.57(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.397	5.397	(0.815)	417323	100.000	105.86(Q)
	15 Carbon Disulfide	76	5.377	5.377	(0.812)	775986	100.000	97.596
	17 Trans-1,2-Dichloroethene	96	5.558	5.558	(0.839)	225901	100.000	103.40
	18 Vinyl Acetate	43	5.879	5.879	(0.888)	420486	100.000	109.89
	19 1,1-Dichloroethane	63	5.940	5.940	(0.897)	422564	100.000	105.14
	20 2-Butanone	43	6.281	6.281	(0.948)	437209	500.000	513.04
	21 2,2-Dichloropropane	77	6.462	6.462	(0.976)	258768	100.000	105.22
	22 Cis-1,2-Dichloroethene	96	6.492	6.492	(0.980)	200756	100.000	104.26
*	23 Pentafluorobenzene	168	6.623	6.623	(1.000)	135334	50.0000	
	24 Chloroform	83	6.643	6.643	(1.003)	333986	100.000	102.30
	26 Bromochloromethane	128	6.804	6.804	(1.027)	95093	100.000	104.01
$	25 Dibromofluoromethane	111	6.844	6.844	(1.033)	79364	50.0000	49.203(Q)
	27 1,1,1-Trichloroethane	97	7.035	7.035	(1.062)	260275	100.000	102.50
	29 1,1-Dichloropropene	75	7.176	7.176	(0.939)	277625	100.000	102.36
	30 Carbon Tetrachloride	117	7.286	7.286	(0.954)	236579	100.000	100.30
$	31 d4-1,2-Dichloroethane	65	7.306	7.306	(1.103)	86752	50.0000	49.152
	32 1,2-Dichloroethane	62	7.397	7.397	(0.968)	238783	100.000	100.28
	33 Benzene	78	7.447	7.447	(0.975)	581109	100.000	88.602
*	34 1,4-Difluorobenzene	114	7.638	7.638	(1.000)	199732	50.0000	
	35 Trichloroethene	95	8.010	8.010	(1.049)	193783	100.000	100.84
	36 1,2-Dichloropropane	63	8.171	8.171	(1.070)	206742	100.000	99.998
	37 Bromodichloromethane	83	8.402	8.402	(1.100)	221686	100.000	100.29
	39 Dibromomethane	93	8.472	8.472	(1.109)	104013	100.000	101.35
	40 2-Chloroethyl Vinyl Ether	63	8.623	8.623	(1.129)	77415	100.000	106.92(Q)
	41 4-Methyl-2-Pentanone	58	8.653	8.653	(1.133)	263763	500.000	499.56(Q)
	42 Cis 1,3-dichloropropene	75	8.904	8.904	(1.166)	270130	100.000	111.93
$	43 d8-Toluene	98	9.186	9.186	(1.203)	215653	50.0000	49.139
	44 Toluene	92	9.266	9.266	(1.213)	377962	100.000	97.129(Q)
	45 Trans 1,3-Dichloropropene	75	9.397	9.397	(1.230)	223383	100.000	110.12
	46 2-Hexanone	43	9.527	9.527	(0.884)	517771	500.000	394.32
	47 1,1,2-Trichloroethane	97	9.578	9.578	(1.254)	123034	100.000	101.56
	48 1,3-Dichloropropane	76	9.839	9.839	(0.912)	232506	100.000	102.84
	49 Tetrachloroethene	166	9.960	9.960	(0.924)	175269	100.000	98.211
	50 Chlorodibromomethane	129	10.161	10.161	(0.942)	158474	100.000	104.20
	51 1,2-Dibromoethane	107	10.392	10.392	(1.361)	131007	100.000	100.96
*	52 d5-Chlorobenzene	117	10.784	10.784	(1.000)	160631	50.0000	
	53 Chlorobenzene	112	10.824	10.824	(1.004)	376912	100.000	100.04
	54 Ethyl Benzene	91	10.864	10.864	(1.007)	573170	100.000	89.962
	55 1,1,1,2-Tetrachloroethane	131	10.854	10.854	(1.007)	137418	100.000	95.300
	56 m,p-xylene	106	10.944	10.944	(1.015)	516678	200.000	221.87(Q)
	57 o-Xylene	106	11.427	11.427	(1.060)	269989	100.000	111.56(Q)
	58 Styrene	104	11.457	11.457	(1.062)	431090	100.000	115.20
	59 Isopropyl Benzene	105	11.809	11.809	(0.877)	588226	100.000	90.704
	60 Bromoform	173	11.869	11.869	(0.881)	103792	100.000	99.542
	61 1,1,2,2-Tetrachloroethane	83	11.990	11.990	(0.890)	171593	100.000	91.586
$	62 4-Bromofluorobenzene	95	12.110	12.110	(1.123)	95036	50.0000	50.553
	63 1,2,3-Trichloropropane	110	12.160	12.160	(0.903)	35211	100.000	94.864

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	65 Trans-1,4-Dichloro 2-Butene	53	12.211	12.211	(0.907)	57625	100.000	100.07
	66 N-Propyl Benzene	91	12.261	12.261	(0.910)	642345	100.000	76.727
	67 Bromobenzene	156	12.351	12.351	(0.917)	184300	100.000	101.94
	68 1,3,5-Trimethyl Benzene	105	12.432	12.432	(0.923)	526617	100.000	100.04
	69 2-Chloro Toluene	91	12.492	12.492	(0.928)	543512	100.000	98.805
	70 4-Chloro Toluene	91	12.542	12.542	(0.931)	505915	100.000	95.947
	71 T-Butyl Benzene	119	12.844	12.844	(0.954)	493329	100.000	109.54
	72 1,2,4-Trimethylbenzene	105	12.894	12.894	(0.957)	539580	100.000	104.12
	73 S-Butyl Benzene	105	13.095	13.095	(0.972)	628727	100.000	84.857
	74 4-Isopropyl Toluene	119	13.236	13.236	(0.983)	529249	100.000	104.10
	75 1,3-Dichlorobenzene	146	13.387	13.387	(0.994)	347593	100.000	112.54
*	76 d4-1,4-Dichlorobenzene	152	13.467	13.467	(1.000)	96340	50.0000	
	77 1,4-Dichlorobenzene	146	13.507	13.507	(1.003)	341992	100.000	110.65
	78 N-Butyl Benzene	91	13.718	13.718	(1.019)	548418	100.000	99.896
$	79 d4-1,2-Dichlorobenzene	152	13.909	13.909	(1.033)	86952	50.0000	49.620
	80 1,2-Dichlorobenzene	146	13.949	13.949	(1.036)	305695	100.000	104.14
	81 1,2-Dibromo 3-Chloropropane	75	14.844	14.844	(1.102)	30455	100.000	93.940
	82 1,2,4-Trichlorobenzene	180	15.899	15.899	(1.181)	175953	100.000	98.499
	83 Hexachloro 1,3-Butadiene	225	16.050	16.050	(1.192)	115056	100.000	95.632
	84 Naphthalene	128	16.221	16.221	(1.204)	300283	100.000	92.679
	85 1,2,3-Trichlorobenzene	180	16.512	16.512	(1.226)	158431	100.000	92.767

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 1000723.d
Lab Smp Id: IC0723
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 18:42
Client Smp ID: VSTD100
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	135334	3.22
34 1,4-Difluorobenze	191559	95780	383118	199732	4.27
52 d5-Chlorobenzene	161199	80600	322398	160631	-0.35
76 d4-1,4-Dichlorobe	88279	44140	176558	96340	9.13

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.62	0.00
34 1,4-Difluorobenze	7.63	7.13	8.13	7.64	0.13
52 d5-Chlorobenzene	10.78	10.28	11.28	10.78	0.00
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.47	0.00

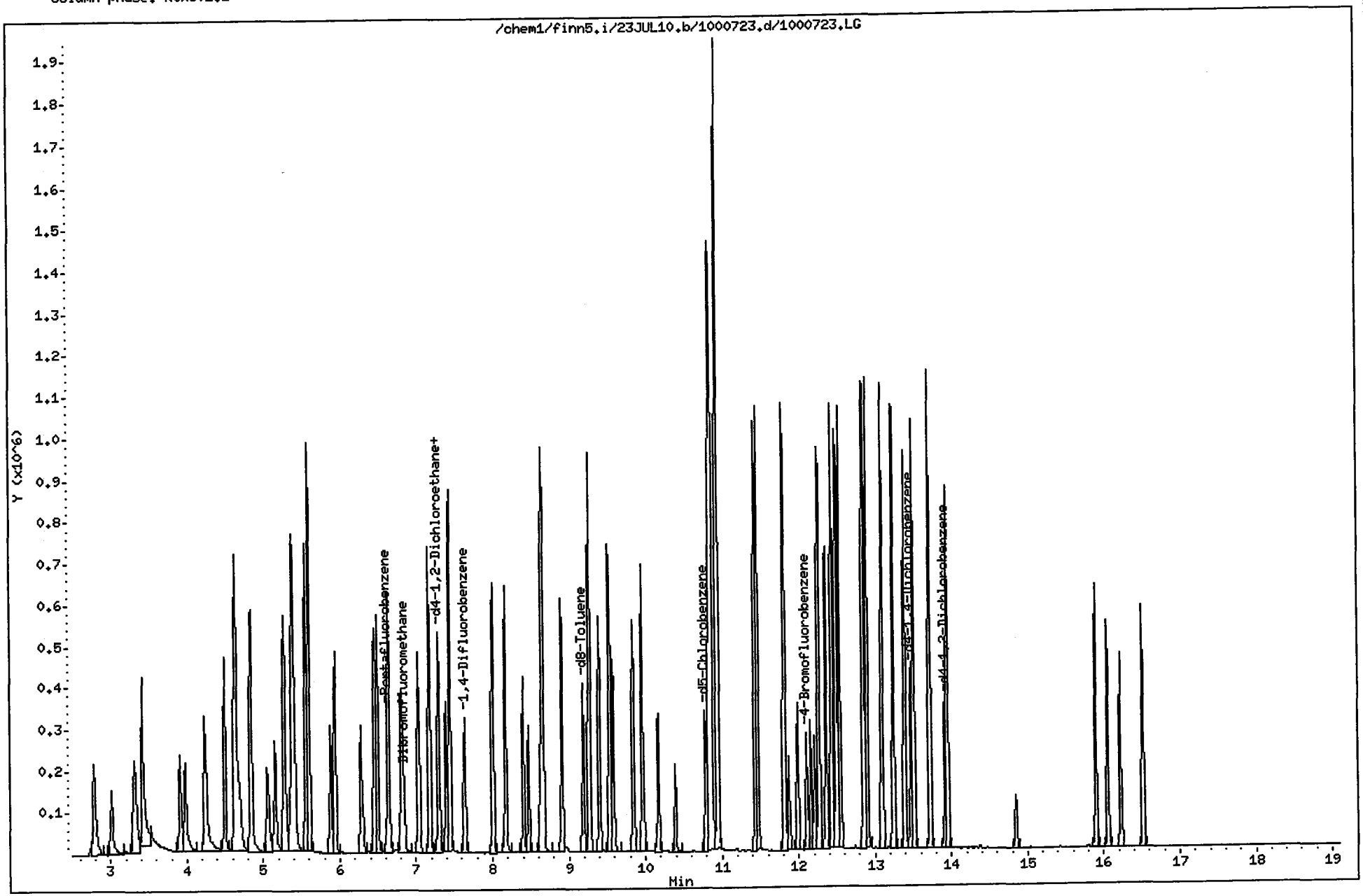
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/finn5.i/23JUL10.b/1000723.d
Date : 23-JUL-2010 18:16
Client ID: VSTD100
Sample Info: IC0723,5,5,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



RG79:00363

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/23JUL10.b/1500723.d
Lab Smp Id: IC0723 Client Smp ID: VSTD150
Inj Date : 23-JUL-2010 17:49
Operator : PB Inst ID: finn5.i
Smp Info : IC0723,5,5,0
Misc Info : 10-
Comment :
Method : /chem1/finn5.i/23JUL10.b/s8260b.m
Meth Date : 29-Jul-2010 14:29 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:49 Cal File: 1500723.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	3.015	3.015	(0.455)	295620	150.000	146.34
2 Chloromethane	50	3.316	3.316	(0.501)	648632	150.000	119.34
3 Vinyl Chloride	62	3.417	3.417	(0.516)	547438	150.000	127.37
4 Bromomethane	94	3.909	3.909	(0.590)	302383	150.000	129.55
5 Chloroethane	64	3.980	3.980	(0.601)	293885	150.000	104.71
6 Trichlorofluoromethane	101	4.241	4.241	(0.640)	487082	150.000	117.26
7 Acrolein	56	4.633	4.633	(0.700)	278099	750.000	536.71
8 112Trichloro122Trifluoroethane	101	4.643	4.643	(0.701)	382218	150.000	117.53
9 Acetone	43	4.683	4.683	(0.707)	476748	750.000	546.84
10 1,1-Dichloroethene	96	4.844	4.844	(0.731)	372564	150.000	126.25
11 Bromoethane	108	5.055	5.055	(0.763)	295924	150.000	135.41
12 Iodomethane	142	5.156	5.156	(0.778)	498041	150.000	142.74
13 Methylene Chloride	84	5.276	5.276	(0.797)	383620	150.000	115.45
14 Acrylonitrile	53	5.357	5.357	(0.809)	107704	150.000	139.92(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.397	5.397	(0.815)	613756	150.000	135.24(Q)
	15 Carbon Disulfide	76	5.377	5.377	(0.812)	1021453	150.000	111.60(Q)
	17 Trans-1,2-Dichloroethene	96	5.558	5.558	(0.839)	357903	150.000	142.31(Q)
	18 Vinyl Acetate	43	5.879	5.879	(0.888)	559418	150.000	127.00
	19 1,1-Dichloroethane	63	5.940	5.940	(0.897)	586536	150.000	126.78
	20 2-Butanone	43	6.281	6.281	(0.948)	627000	750.000	639.16
	21 2,2-Dichloropropane	77	6.462	6.462	(0.976)	409501	150.000	144.65
	22 Cis-1,2-Dichloroethene	96	6.502	6.502	(0.982)	321064	150.000	144.85(Q)
*	23 Pentafluorobenzene	168	6.623	6.623	(1.000)	155784	50.0000	
	24 Chloroform	83	6.643	6.643	(1.003)	501605	150.000	133.48
	26 Bromochloromethane	128	6.814	6.814	(1.029)	155161	150.000	147.44
$	25 Dibromofluoromethane	111	6.844	6.844	(1.033)	89065	50.0000	47.969(Q)
	27 1,1,1-Trichloroethane	97	7.035	7.035	(1.062)	410583	150.000	140.47
	29 1,1-Dichloropropene	75	7.176	7.176	(0.939)	432896	150.000	139.46
	30 Carbon Tetrachloride	117	7.296	7.296	(0.955)	377891	150.000	140.00
$	31 d4-1,2-Dichloroethane	65	7.306	7.306	(1.103)	96098	50.0000	47.300
	32 1,2-Dichloroethane	62	7.397	7.397	(0.968)	373218	150.000	136.97
	33 Benzene	78	7.447	7.447	(0.975)	746304	150.000	99.432
*	34 1,4-Difluorobenzene	114	7.638	7.638	(1.000)	228573	50.0000	
	35 Trichloroethene	95	8.010	8.010	(1.049)	307337	150.000	139.76
	36 1,2-Dichloropropane	63	8.171	8.171	(1.070)	322596	150.000	136.35
	37 Bromodichloromethane	83	8.402	8.402	(1.100)	353775	150.000	139.85
	39 Dibromomethane	93	8.472	8.472	(1.109)	162509	150.000	138.36
	40 2-Chloroethyl Vinyl Ether	63	8.623	8.623	(1.129)	128070	150.000	154.56(Q)
	41 4-Methyl-2-Pentanone	58	8.653	8.653	(1.133)	417853	750.000	691.54(Q)
	42 Cis 1,3-dichloropropene	75	8.914	8.914	(1.167)	424803	150.000	153.81
$	43 d8-Toluene	98	9.186	9.186	(1.203)	239633	50.0000	47.713
	44 Toluene	92	9.266	9.266	(1.213)	537240	150.000	120.64(Q)
	45 Trans 1,3-Dichloropropene	75	9.397	9.397	(1.230)	359227	150.000	154.74
	46 2-Hexanone	43	9.537	9.537	(0.884)	658433	750.000	450.96(Q)
	47 1,1,2-Trichloroethane	97	9.578	9.578	(1.254)	199640	150.000	144.00
	48 1,3-Dichloropropane	76	9.839	9.839	(0.912)	362456	150.000	144.18
	49 Tetrachloroethene	166	9.960	9.960	(0.924)	291013	150.000	146.65
	50 Chlorodibromomethane	129	10.171	10.171	(0.943)	256549	150.000	151.70
	51 1,2-Dibromoethane	107	10.392	10.392	(1.361)	211704	150.000	142.56
*	52 d5-Chlorobenzene	117	10.784	10.784	(1.000)	178614	50.0000	
	53 Chlorobenzene	112	10.834	10.834	(1.005)	526215	150.000	125.61
	54 Ethyl Benzene	91	10.864	10.864	(1.007)	719154	150.000	101.51(Q)
	55 1,1,1,2-Tetrachloroethane	131	10.854	10.854	(1.007)	235095	150.000	146.62
	56 m,p-xylene	106	10.944	10.944	(1.015)	693534	300.000	267.84(Q)
	57 o-Xylene	106	11.437	11.437	(1.061)	443859	150.000	164.93(Q)
	58 Styrene	104	11.467	11.467	(1.063)	604009	150.000	145.16
	59 Isopropyl Benzene	105	11.809	11.809	(0.877)	765486	150.000	92.525
	60 Bromoform	173	11.869	11.869	(0.881)	184206	150.000	138.48
	61 1,1,2,2-Tetrachloroethane	83	11.990	11.990	(0.890)	287454	150.000	120.26
$	62 4-Bromofluorobenzene	95	12.110	12.110	(1.123)	109555	50.0000	52.409
	63 1,2,3-Trichloropropane	110	12.160	12.160	(0.903)	59137	150.000	124.89

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
	65 Trans-1,4-Dichloro 2-Butene	53	12.211	12.211	(0.907)	94977	150.000	129.29
	66 N-Propyl Benzene	91	12.271	12.271	(0.911)	798434	150.000	74.759(Q)
	67 Bromobenzene	156	12.351	12.351	(0.917)	321436	150.000	139.37(Q)
	68 1,3,5-Trimethyl Benzene	105	12.442	12.442	(0.924)	708315	150.000	105.47(Q)
	69 2-Chloro Toluene	91	12.502	12.502	(0.928)	729939	150.000	104.02
	70 4-Chloro Toluene	91	12.542	12.542	(0.931)	684866	150.000	101.81
	71 T-Butyl Benzene	119	12.854	12.854	(0.954)	722068	150.000	125.68
	72 1,2,4-Trimethylbenzene	105	12.894	12.894	(0.957)	731940	150.000	110.71(Q)
	73 S-Butyl Benzene	105	13.095	13.095	(0.972)	812152	150.000	85.922
	74 4-Isopropyl Toluene	119	13.246	13.246	(0.984)	739478	150.000	114.02
	75 1,3-Dichlorobenzene	146	13.387	13.387	(0.994)	545268	150.000	138.38
*	76 d4-1,4-Dichlorobenzene	152	13.467	13.467	(1.000)	122904	50.0000	
	77 1,4-Dichlorobenzene	146	13.507	13.507	(1.003)	547350	150.000	138.82
	78 N-Butyl Benzene	91	13.718	13.718	(1.019)	717047	150.000	102.38(Q)
$	79 d4-1,2-Dichlorobenzene	152	13.909	13.909	(1.033)	108113	50.0000	48.361
	80 1,2-Dichlorobenzene	146	13.949	13.949	(1.036)	516441	150.000	137.91
	81 1,2-Dibromo 3-Chloropropane	75	14.854	14.854	(1.103)	50577	150.000	122.29
	82 1,2,4-Trichlorobenzene	180	15.899	15.899	(1.181)	304271	150.000	133.52
	83 Hexachloro 1,3-Butadiene	225	16.050	16.050	(1.192)	204107	150.000	132.98
	84 Naphthalene	128	16.221	16.221	(1.204)	474513	150.000	114.80
	85 1,2,3-Trichlorobenzene	180	16.512	16.512	(1.226)	271577	150.000	124.65

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 1500723.d
Lab Smp Id: IC0723
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 18:42
Client Smp ID: VSTD150
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	155784	18.81
34 1,4-Difluorobenze	191559	95780	383118	228573	19.32
52 d5-Chlorobenzene	161199	80600	322398	178614	10.80
76 d4-1,4-Dichlorobe	88279	44140	176558	122904	39.22

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.62	0.00
34 1,4-Difluorobenze	7.63	7.13	8.13	7.64	0.13
52 d5-Chlorobenzene	10.78	10.28	11.28	10.78	0.00
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.47	0.00

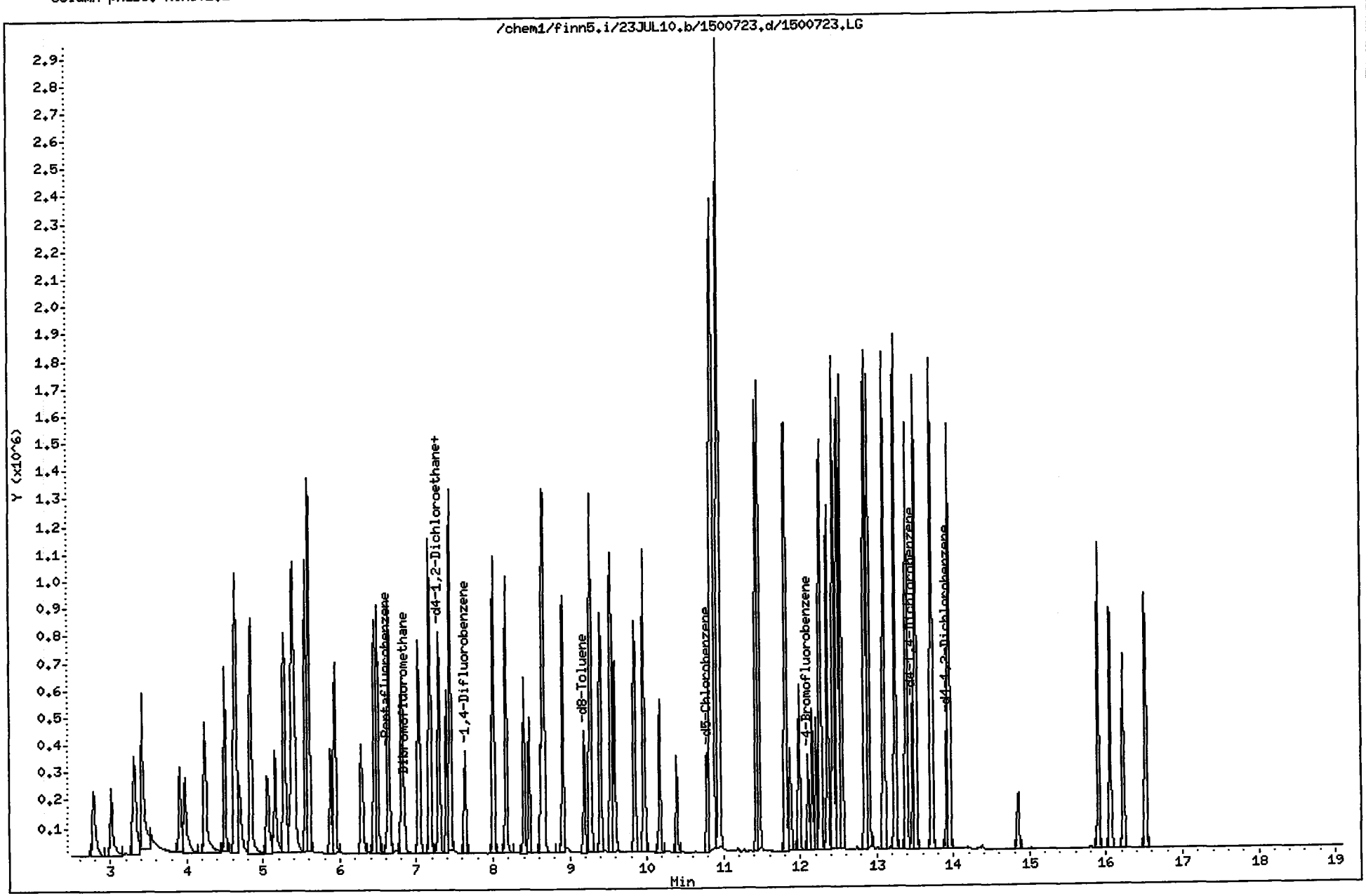
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/finn5.i/23JUL10.b/1500723.d
Date : 23-JUL-2010 17:49
Client ID: VSTD150
Sample Info: IC0723,5,5,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/23JUL10.b/2000723.d
Lab Smp Id: IC0723 Client Smp ID: VSTD200
Inj Date : 23-JUL-2010 17:18
Operator : PB Inst ID: finn5.i
Smp Info : IC0723,5,5,0
Misc Info : 10-
Comment :
Method : /chem1/finn5.i/23JUL10.b/s8260b.m
Meth Date : 29-Jul-2010 14:29 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	3.015	3.015	(0.455)	382873	200.000	185.53
2 Chloromethane	50	3.316	3.316	(0.501)	831334	200.000	149.72
3 Vinyl Chloride	62	3.417	3.417	(0.516)	675701	200.000	153.89
4 Bromomethane	94	3.909	3.909	(0.590)	368903	200.000	154.71
5 Chloroethane	64	3.980	3.980	(0.601)	364783	200.000	127.22
6 Trichlorofluoromethane	101	4.241	4.241	(0.640)	615782	200.000	145.11
7 Acrolein	56	4.633	4.633	(0.700)	343518	1000.00	648.94
8 112Trichloro122Trifluoroethane	101	4.643	4.643	(0.701)	482521	200.000	145.24
9 Acetone	43	4.693	4.693	(0.709)	560993	1000.00	629.87
10 1,1-Dichloroethene	96	4.844	4.844	(0.731)	470540	200.000	156.08(Q)
11 Bromoethane	108	5.055	5.055	(0.763)	376320	200.000	168.56
12 Iodomethane	142	5.156	5.156	(0.778)	652382	200.000	183.02
13 Methylene Chloride	84	5.276	5.276	(0.797)	495091	200.000	145.85(Q)
14 Acrylonitrile	53	5.367	5.367	(0.810)	139945	200.000	177.96(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.407	5.407	(0.816)	732622	200.000	158.02(Q)
	15 Carbon Disulfide	76	5.377	5.377	(0.812)	1217955	200.000	130.26(Q)
	17 Trans-1,2-Dichloroethene	96	5.558	5.558	(0.839)	459768	200.000	178.95(Q)
	18 Vinyl Acetate	43	5.879	5.879	(0.888)	672353	200.000	149.42
	19 1,1-Dichloroethane	63	5.940	5.940	(0.897)	680449	200.000	143.96
	20 2-Butanone	43	6.291	6.291	(0.950)	785164	1000.00	783.47
	21 2,2-Dichloropropane	77	6.462	6.462	(0.976)	544411	200.000	188.24
	22 Cis-1,2-Dichloroethene	96	6.502	6.502	(0.982)	438984	200.000	193.86
*	23 Pentafluorobenzene	168	6.623	6.623	(1.000)	159149	50.0000	
	24 Chloroform	83	6.643	6.643	(1.003)	610807	200.000	159.10
	26 Bromochloromethane	128	6.814	6.814	(1.029)	213240	200.000	198.34
$	25 Dibromofluoromethane	111	6.844	6.844	(1.033)	84837	50.0000	44.726(Q)
	27 1,1,1-Trichloroethane	97	7.035	7.035	(1.062)	549252	200.000	183.94
	29 1,1-Dichloropropene	75	7.176	7.176	(0.939)	545791	200.000	175.44
	30 Carbon Tetrachloride	117	7.296	7.296	(0.955)	522753	200.000	193.23
$	31 d4-1,2-Dichloroethane	65	7.306	7.306	(1.103)	89066	50.0000	42.912
	32 1,2-Dichloroethane	62	7.397	7.397	(0.968)	485007	200.000	177.58
	33 Benzene	78	7.447	7.447	(0.975)	870526	200.000	115.72
*	34 1,4-Difluorobenzene	114	7.638	7.638	(1.000)	229095	50.0000	
	35 Trichloroethene	95	8.010	8.010	(1.049)	422519	200.000	191.70
	36 1,2-Dichloropropane	63	8.171	8.171	(1.070)	435024	200.000	183.44
	37 Bromodichloromethane	83	8.412	8.412	(1.101)	471123	200.000	185.82
	39 Dibromomethane	93	8.472	8.472	(1.109)	228343	200.000	193.98
	40 2-Chloroethyl Vinyl Ether	63	8.623	8.623	(1.129)	181565	200.000	218.62(Q)
	41 4-Methyl-2-Pentanone	58	8.663	8.663	(1.134)	536767	1000.00	886.32(Q)
	42 Cis 1,3-dichloropropene	75	8.914	8.914	(1.167)	522307	200.000	188.68
$	43 d8-Toluene	98	9.186	9.186	(1.203)	239843	50.0000	47.646
	44 Toluene	92	9.276	9.276	(1.214)	647650	200.000	145.10(Q)
	45 Trans 1,3-Dichloropropene	75	9.407	9.407	(1.232)	465557	200.000	200.09
	46 2-Hexanone	43	9.537	9.537	(0.884)	763183	1000.00	544.40(Q)
	47 1,1,2-Trichloroethane	97	9.588	9.588	(1.255)	280030	200.000	201.53
	48 1,3-Dichloropropane	76	9.839	9.839	(0.912)	469237	200.000	194.40
	49 Tetrachloroethene	166	9.960	9.960	(0.923)	404966	200.000	212.54
	50 Chlorodibromomethane	129	10.171	10.171	(0.942)	362369	200.000	223.17
	51 1,2-Dibromoethane	107	10.392	10.392	(1.361)	296560	200.000	199.25
*	52 d5-Chlorobenzene	117	10.794	10.794	(1.000)	171495	50.0000	
	53 Chlorobenzene	112	10.834	10.834	(1.004)	637891	200.000	158.58
	54 Ethyl Benzene	91	10.864	10.864	(1.007)	844494	200.000	124.15(Q)
	55 1,1,1,2-Tetrachloroethane	131	10.864	10.864	(1.007)	337259	200.000	219.07
	56 m,p-xylene	106	10.944	10.944	(1.014)	845893	400.000	340.24(Q)
	57 o-Xylene	106	11.437	11.437	(1.060)	593625	200.000	229.74(Q)
	58 Styrene	104	11.467	11.467	(1.062)	750474	200.000	187.84(Q)
	59 Isopropyl Benzene	105	11.819	11.819	(0.878)	880078	200.000	89.802(Q)
	60 Bromoform	173	11.879	11.879	(0.882)	275819	200.000	175.04
	61 1,1,2,2-Tetrachloroethane	83	11.990	11.990	(0.890)	411745	200.000	145.43
$	62 4-Bromofluorobenzene	95	12.110	12.110	(1.122)	119170	50.0000	59.375
	63 1,2,3-Trichloropropane	110	12.160	12.160	(0.903)	85172	200.000	151.85

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	ON-COL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	12.211	12.211	(0.907)	138249	200.000	158.87
66	N-Propyl Benzene	91	12.271	12.271	(0.911)	919942	200.000	72.715(Q)
67	Bromobenzene	156	12.361	12.361	(0.918)	475914	200.000	174.20(Q)
68	1,3,5-Trimethyl Benzene	105	12.442	12.442	(0.924)	843459	200.000	106.02(Q)
69	2-Chloro Toluene	91	12.502	12.502	(0.928)	835546	200.000	100.51(Q)
70	4-Chloro Toluene	91	12.552	12.552	(0.932)	905693	200.000	113.66(Q)
71	T-Butyl Benzene	119	12.854	12.854	(0.954)	852231	200.000	125.22(Q)
72	1,2,4-Trimethylbenzene	105	12.904	12.904	(0.958)	866210	200.000	110.61(Q)
73	S-Butyl Benzene	105	13.095	13.095	(0.972)	959505	200.000	85.695(Q)
74	4-Isopropyl Toluene	119	13.246	13.246	(0.984)	862152	200.000	112.22(Q)
75	1,3-Dichlorobenzene	146	13.397	13.397	(0.995)	707131	200.000	151.50
* 76	d4-1,4-Dichlorobenzene	152	13.467	13.467	(1.000)	145587	50.0000	
77	1,4-Dichlorobenzene	146	13.507	13.507	(1.003)	703363	200.000	150.59
78	N-Butyl Benzene	91	13.728	13.728	(1.019)	866011	200.000	104.39(Q)
$ 79	d4-1,2-Dichlorobenzene	152	13.919	13.919	(1.034)	127083	50.0000	47.990
80	1,2-Dichlorobenzene	146	13.949	13.949	(1.036)	673403	200.000	151.80
81	1,2-Dibromo 3-Chloropropane	75	14.854	14.854	(1.103)	74509	200.000	152.08
82	1,2,4-Trichlorobenzene	180	15.899	15.899	(1.181)	430578	200.000	159.50
83	Hexachloro 1,3-Butadiene	225	16.050	16.050	(1.192)	315558	200.000	173.56
84	Naphthalene	128	16.231	16.231	(1.205)	551716	200.000	112.68
85	1,2,3-Trichlorobenzene	180	16.512	16.512	(1.226)	376206	200.000	145.77

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 2000723.d
Lab Smp Id: IC0723
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 18:42
Client Smp ID: VSTD200
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	159149	21.38
34 1,4-Difluorobenze	191559	95780	383118	229095	19.60
52 d5-Chlorobenzene	161199	80600	322398	171495	6.39
76 d4-1,4-Dichlorobe	88279	44140	176558	145587	64.92

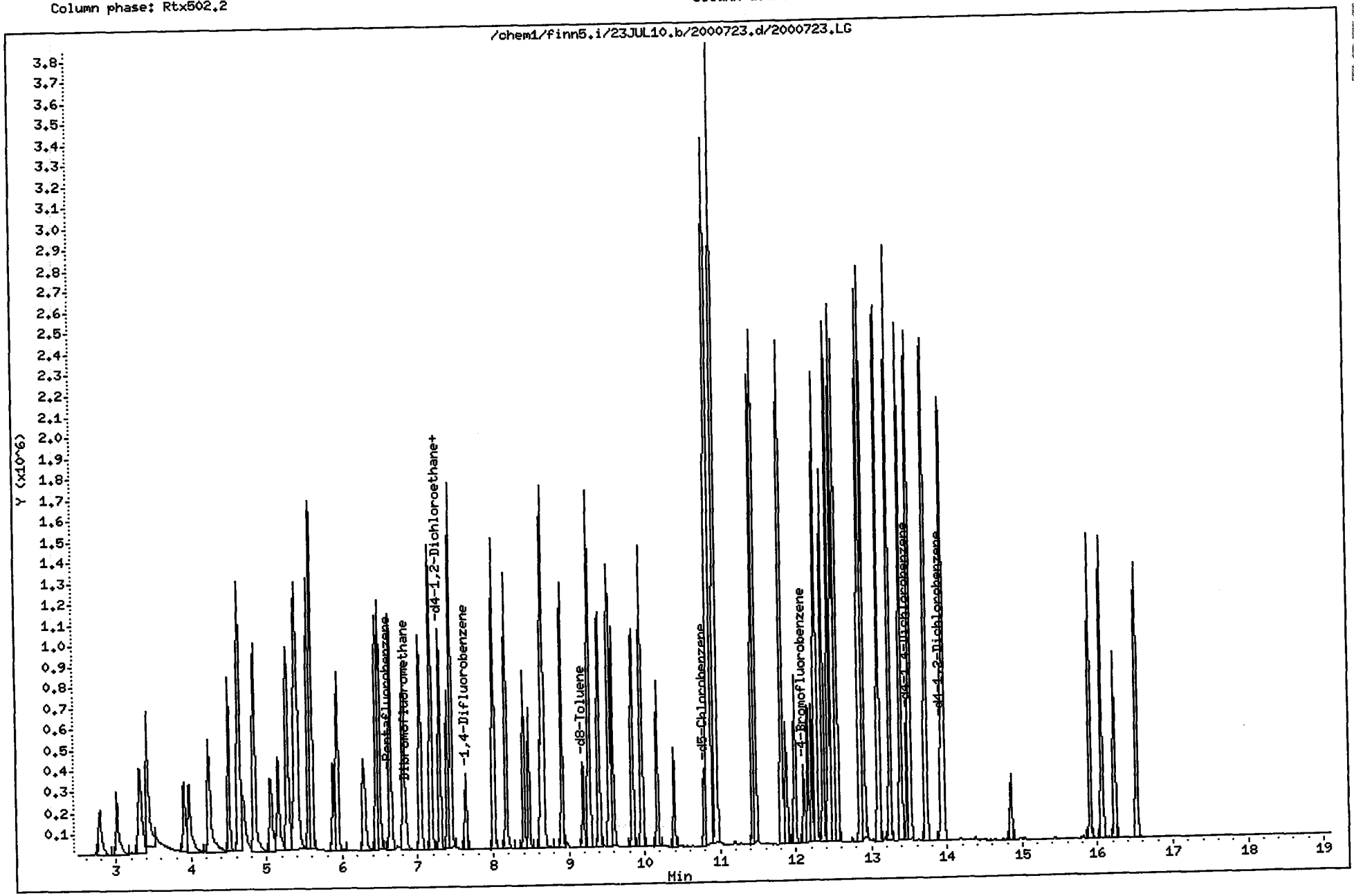
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.62	0.00
34 1,4-Difluorobenze	7.63	7.13	8.13	7.64	0.13
52 d5-Chlorobenzene	10.78	10.28	11.28	10.79	0.09
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.47	0.00

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: /chem1/finn5.i/23JUL10.b/2000723.d
Date : 23-JUL-2010 17:18
Client ID: VSTD200
Sample Info: IC0723,5,5,0

Instrument: finn5.i
Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/23JUL10.b/ICV0723.d
Lab Smp Id: ICV0723 Client Smp ID: ICV0723
Inj Date : 23-JUL-2010 22:14
Operator : PB Inst ID: finn5.i
Smp Info : ICV0723,5,5,0
Misc Info : 10-
Comment :
Method : /chem1/finn5.i/23JUL10.b/s8260b.m
Meth Date : 29-Jul-2010 14:29 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	3.005	3.015	(0.454)	88303	52.1032	52.103
2 Chloromethane	50	3.306	3.316	(0.499)	217848	47.7755	47.775
3 Vinyl Chloride	62	3.417	3.417	(0.516)	192357	53.3461	53.346
4 Bromomethane	94	3.909	3.909	(0.590)	122206	62.4063	62.406
5 Chloroethane	64	3.980	3.980	(0.601)	123869	52.6030	52.603
6 Trichlorofluoromethane	101	4.241	4.241	(0.640)	196733	56.4516	56.452
7 Acrolein	56	4.623	4.633	(0.698)	109928	252.871	252.87
8 112Trichloro122Trifluoroethane	101	4.643	4.643	(0.701)	142159	52.1041	52.104
9 Acetone	43	4.683	4.693	(0.707)	183316	250.626	250.63
10 1,1-Dichloroethene	96	4.834	4.844	(0.730)	130784	52.8244	52.824
11 Bromoethane	108	5.055	5.055	(0.763)	98954	53.9712	53.971
12 Iodomethane	142	5.156	5.156	(0.778)	164327	56.1364	56.136
13 Methylene Chloride	84	5.276	5.276	(0.797)	130295	46.7382	46.738
14 Acrylonitrile	53	5.357	5.367	(0.809)	36679	56.7973	56.797(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.397	5.407	(0.815)	193967	50.9456	50.946(Q)
	15 Carbon Disulfide	76	5.377	5.377	(0.812)	446067	58.0915	58.092
	17 Trans-1,2-Dichloroethene	96	5.558	5.558	(0.839)	107789	51.0864	51.086
	18 Vinyl Acetate	43	5.879	5.879	(0.888)	205828	55.6982	55.698
	19 1,1-Dichloroethane	63	5.940	5.940	(0.897)	207542	53.4687	53.469
	20 2-Butanone	43	6.281	6.291	(0.948)	220070	267.396	267.40
	21 2,2-Dichloropropane	77	6.462	6.462	(0.976)	115299	48.5440	48.544
	22 Cis-1,2-Dichloroethene	96	6.492	6.502	(0.980)	96880	52.0962	52.096
*	23 Pentafluorobenzene	168	6.623	6.623	(1.000)	130699	50.0000	
	24 Chloroform	83	6.643	6.643	(1.003)	163311	51.7971	51.797
	26 Bromochloromethane	128	6.804	6.814	(1.027)	45855	51.9357	51.936
$	25 Dibromofluoromethane	111	6.844	6.844	(1.033)	79530	51.0546	51.055(Q)
	27 1,1,1-Trichloroethane	97	7.035	7.035	(1.062)	121554	49.5682	49.568
	29 1,1-Dichloropropene	75	7.176	7.176	(0.939)	128897	48.8768	48.877
	30 Carbon Tetrachloride	117	7.296	7.296	(0.955)	112147	48.9029	48.903
$	31 d4-1,2-Dichloroethane	65	7.306	7.306	(1.103)	85607	50.2236	50.224
	32 1,2-Dichloroethane	62	7.397	7.397	(0.968)	113558	49.0506	49.051
	33 Benzene	78	7.437	7.447	(0.974)	327392	51.3396	51.340
*	34 1,4-Difluorobenzene	114	7.638	7.638	(1.000)	194200	50.0000	
	35 Trichloroethene	95	8.010	8.010	(1.049)	89432	47.8663	47.866
	36 1,2-Dichloropropane	63	8.171	8.171	(1.070)	96896	48.2020	48.202
	37 Bromodichloromethane	83	8.402	8.412	(1.100)	105966	49.3042	49.304
	39 Dibromomethane	93	8.472	8.472	(1.109)	50061	50.1678	50.168
	40 2-Chloroethyl Vinyl Ether	63	8.623	8.623	(1.129)	36400	51.7056	51.706(Q)
	41 4-Methyl-2-Pentanone	58	8.653	8.663	(1.133)	124957	243.406	243.40
	42 Cis 1,3-dichloropropene	75	8.904	8.914	(1.166)	119381	50.8758	50.876
$	43 d8-Toluene	98	9.186	9.186	(1.203)	213419	50.0149	50.015
	44 Toluene	92	9.266	9.276	(1.213)	178106	47.0736	47.074
	45 Trans 1,3-Dichloropropene	75	9.397	9.407	(1.230)	97312	49.3376	49.338
	46 2-Hexanone	43	9.527	9.537	(0.884)	302971	230.222	230.22
	47 1,1,2-Trichloroethane	97	9.578	9.588	(1.254)	58163	49.3789	49.379
	48 1,3-Dichloropropane	76	9.839	9.839	(0.912)	111278	49.1112	49.111
	49 Tetrachloroethene	166	9.960	9.960	(0.924)	77284	43.2093	43.209
	50 Chlorodibromomethane	129	10.161	10.171	(0.942)	74343	48.7727	48.773
	51 1,2-Dibromoethane	107	10.392	10.392	(1.361)	60617	48.0450	48.045
*	52 d5-Chlorobenzene	117	10.784	10.794	(1.000)	160989	50.0000	
	53 Chlorobenzene	112	10.824	10.834	(1.004)	173699	46.0010	46.001
	54 Ethyl Benzene	91	10.864	10.864	(1.007)	323591	50.6763	50.676
	55 1,1,1,2-Tetrachloroethane	131	10.854	10.864	(1.007)	63372	43.8510	43.851
	56 m,p-xylene	106	10.944	10.944	(1.015)	245109	105.022	105.02
	57 o-Xylene	106	11.427	11.437	(1.060)	120691	49.7567	49.757
	58 Styrene	104	11.457	11.467	(1.062)	197449	52.6464	52.646
	59 Isopropyl Benzene	105	11.809	11.819	(0.877)	319484	52.7192	52.719
	60 Bromoform	173	11.869	11.879	(0.881)	46057	47.2689	47.269
	61 1,1,2,2-Tetrachloroethane	83	11.990	11.990	(0.890)	81604	46.6101	46.610
$	62 4-Bromofluorobenzene	95	12.110	12.110	(1.123)	92917	49.3160	49.316
	63 1,2,3-Trichloropropane	110	12.160	12.160	(0.903)	16385	47.2399	47.240

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	12.211	12.211	(0.907)	26774	49.7563	49.756
66	N-Propyl Benzene	91	12.261	12.271	(0.910)	379504	48.5107	48.511
67	Bromobenzene	156	12.351	12.361	(0.917)	77896	46.1089	46.109
68	1,3,5-Trimethyl Benzene	105	12.432	12.442	(0.923)	260307	52.9158	52.916
69	2-Chloro Toluene	91	12.492	12.502	(0.928)	265535	51.6571	51.657
70	4-Chloro Toluene	91	12.542	12.552	(0.931)	238191	48.3413	48.341
71	T-Butyl Benzene	119	12.844	12.854	(0.954)	232736	55.3018	55.302
72	1,2,4-Trimethylbenzene	105	12.894	12.904	(0.957)	256248	52.9143	52.914
73	S-Butyl Benzene	105	13.095	13.095	(0.972)	356050	51.4252	51.425
74	4-Isopropyl Toluene	119	13.236	13.246	(0.983)	257043	54.1060	54.106
75	1,3-Dichlorobenzene	146	13.387	13.397	(0.994)	136992	47.4636	47.464
* 76	d4-1,4-Dichlorobenzene	152	13.467	13.467	(1.000)	90026	50.0000	
77	1,4-Dichlorobenzene	146	13.507	13.507	(1.003)	134851	46.6906	46.691
78	N-Butyl Benzene	91	13.718	13.728	(1.019)	266189	51.8878	51.888
$ 79	d4-1,2-Dichlorobenzene	152	13.909	13.919	(1.033)	82049	50.1059	50.106
80	1,2-Dichlorobenzene	146	13.949	13.949	(1.036)	130036	47.4052	47.405
81	1,2-Dibromo 3-Chloropropane	75	14.844	14.854	(1.102)	14043	46.3542	46.354
82	1,2,4-Trichlorobenzene	180	15.899	15.899	(1.181)	62702	37.5627	37.563 (R)
83	Hexachloro 1,3-Butadiene	225	16.050	16.050	(1.192)	47253	42.0301	42.030
84	Naphthalene	128	16.221	16.231	(1.204)	125569	41.4735	41.473
85	1,2,3-Trichlorobenzene	180	16.512	16.512	(1.226)	61205	38.3513	38.351

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: ICV0723.d
Lab Smp Id: ICV0723
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Misc Info: 10-

Calibration Date: 23-JUL-2010
Calibration Time: 18:42
Client Smp ID: ICV0723
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	130699	-0.32
34 1,4-Difluorobenze	191559	95780	383118	194200	1.38
52 d5-Chlorobenzene	161199	80600	322398	160989	-0.13
76 d4-1,4-Dichlorobe	88279	44140	176558	90026	1.98

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.62	0.00
34 1,4-Difluorobenze	7.63	7.13	8.13	7.64	0.13
52 d5-Chlorobenzene	10.78	10.28	11.28	10.78	0.00
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.47	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.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: ICV0723
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/23JUL10.b/s8260b.m
Misc Info: 10-

Client SDG: 23JUL10
Fraction: VOA
Client Smp ID: ICV0723
Operator: PB
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
1 Dichlorodifluorome	50.000	52.103	104.21	53-148
2 Chloromethane	50.000	47.775	95.55	64-125
3 Vinyl Chloride	50.000	53.346	106.69	63-137
4 Bromomethane	50.000	62.406	124.81	57-136
5 Chloroethane	50.000	52.603	105.21	64-131
6 Trichlorofluoromet	50.000	56.452	112.90	69-132
7 Acrolein	250.00	252.87	101.15	54-137
8 112Trichloro122Tri	50.000	52.104	104.21	74-130
9 Acetone	250.00	250.63	100.25	60-131
10 1,1-Dichloroethene	50.000	52.824	105.65	75-126
11 Bromoethane	50.000	53.971	107.94	76-126
12 Iodomethane	50.000	56.136	112.27	65-139
13 Methylene Chloride	50.000	46.738	93.48	70-123
15 Carbon Disulfide	50.000	58.092	116.18	71-129
14 Acrylonitrile	50.000	56.797	113.59	67-125
16 Methyl tert-Butyl	50.000	50.946	101.89	70-120
17 Trans-1,2-Dichloro	50.000	51.086	102.17	80-120
18 Vinyl Acetate	50.000	55.698	111.40	60-136
19 1,1-Dichloroethane	50.000	53.469	106.94	80-120
20 2-Butanone	250.00	267.40	106.96	70-120
21 2,2-Dichloropropan	50.000	48.544	97.09	74-123
22 Cis-1,2-Dichloroet	50.000	52.096	104.19	80-120
24 Chloroform	50.000	51.797	103.59	80-120
26 Bromochloromethane	50.000	51.936	103.87	80-120
27 1,1,1-Trichloroeth	50.000	49.568	99.14	77-121
29 1,1-Dichloropropen	50.000	48.877	97.75	80-120
30 Carbon Tetrachlori	50.000	48.903	97.81	77-122
32 1,2-Dichloroethane	50.000	49.051	98.10	76-120
33 Benzene	50.000	51.340	102.68	80-120
35 Trichloroethene	50.000	47.866	95.73	80-120
36 1,2-Dichloropropan	50.000	48.202	96.40	80-120
37 Bromodichlorometha	50.000	49.304	98.61	77-121
39 Dibromomethane	50.000	50.168	100.34	80-120

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	50.000	51.706	103.41	10-191
41 4-Methyl-2-Pentano	250.00	243.40	97.36	67-120
42 Cis 1,3-dichloropr	50.000	50.876	101.75	74-120
44 Toluene	50.000	47.074	94.15	80-120
45 Trans 1,3-Dichloro	50.000	49.338	98.68	65-120
46 2-Hexanone	250.00	230.22	92.09	65-130
47 1,1,2-Trichloroeth	50.000	49.379	98.76	80-120
48 1,3-Dichloropropan	50.000	49.111	98.22	80-120
49 Tetrachloroethene	50.000	43.209	86.42	80-121
50 Chlorodibromometha	50.000	48.773	97.55	64-120
51 1,2-Dibromoethane	50.000	48.045	96.09	75-120
53 Chlorobenzene	50.000	46.001	92.00	80-120
55 1,1,1,2-Tetrachlor	50.000	43.851	87.70	69-121
54 Ethyl Benzene	50.000	50.676	101.35	80-127
56 m,p-xylene	100.00	105.02	105.02	80-125
57 o-Xylene	50.000	49.757	99.51	78-120
58 Styrene	50.000	52.646	105.29	80-123
59 Isopropyl Benzene	50.000	52.719	105.44	80-127
60 Bromoform	50.000	47.269	94.54	60-120
61 1,1,2,2-Tetrachlor	50.000	46.610	93.22	74-120
63 1,2,3-Trichloropro	50.000	47.240	94.48	72-121
65 Trans-1,4-Dichloro	50.000	49.756	99.51	65-126
66 N-Propyl Benzene	50.000	48.511	97.02	80-132
67 Bromobenzene	50.000	46.109	92.22	80-120
68 1,3,5-Trimethyl Be	50.000	52.916	105.83	80-125
69 2-Chloro Toluene	50.000	51.657	103.31	80-125
70 4-Chloro Toluene	50.000	48.341	96.68	80-127
71 T-Butyl Benzene	50.000	55.302	110.60	87-122
72 1,2,4-Trimethylben	50.000	52.914	105.83	80-126
73 S-Butyl Benzene	50.000	51.425	102.85	80-134
74 4-Isopropyl Toluen	50.000	54.106	108.21	80-131
75 1,3-Dichlorobenzen	50.000	47.464	94.93	80-120
77 1,4-Dichlorobenzen	50.000	46.691	93.38	80-120
78 N-Butyl Benzene	50.000	51.888	103.78	80-138
80 1,2-Dichlorobenzen	50.000	47.405	94.81	80-120
81 1,2-Dibromo 3-Chlo	50.000	46.354	92.71	59-120
82 1,2,4-Trichloroben	50.000	37.563	75.13*	78-130
83 Hexachloro 1,3-But	50.000	42.030	84.06	76-129
84 Naphthalene	50.000	41.473	82.95	66-120
85 1,2,3-Trichloroben	50.000	38.351	76.70	73-123

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	51.055	102.11	30-160

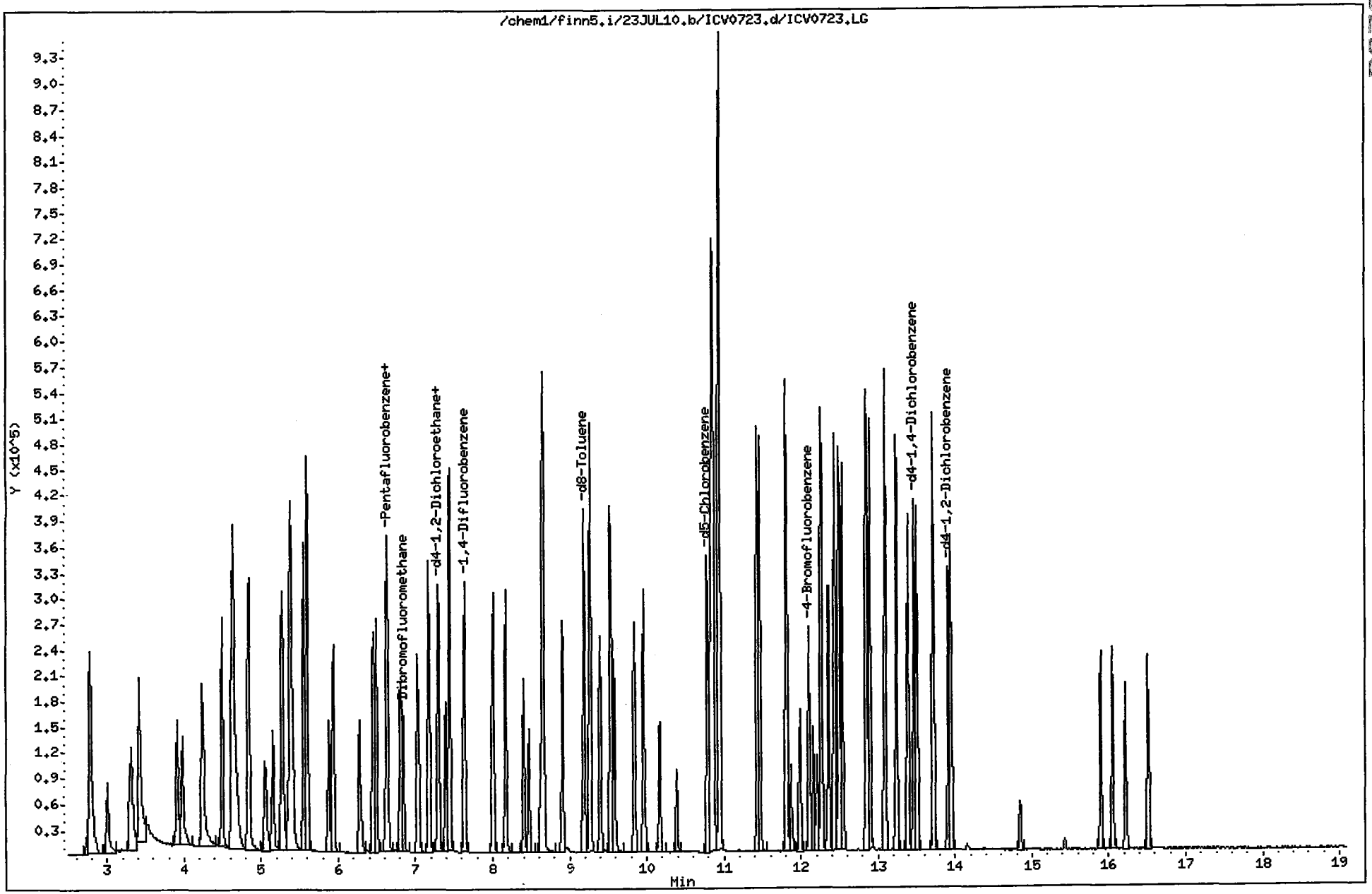
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 31 d4-1,2-Dichloroeth	50.000	50.224	100.45	75-152
$ 43 d8-Toluene	50.000	50.015	100.03	82-115
$ 62 4-Bromofluorobenze	50.000	49.316	98.63	64-120
$ 79 d4-1,2-Dichloroben	50.000	50.106	100.21	80-120

Data File: /chem1/finn5.i/23JUL10.b/ICV0723.d
Date : 23-JUL-2010 22:14
Client ID: ICV0723
Sample Info: ICV0723,5,5,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



Volatile Raw Data
Run Logs, Continuing Calibrations, and Raw Data

ARI Job ID: RG79

Analytical Resources, Incorporated
Analytical Chemists and Consultants

VOA Analyst Notes / Corrective Action Log

ARI Project ID: RG79 Client ID: Floyd Snider

ARI SOP: **404S**(Gas) **410S**(BTEX) **430S**(VPH) **700S**(8260C) **703S**(SIM) **706S**(524.2) **710S**(RSK-175)

Parameter(s): _____

Instrument: NT-3 NT-5 NT-7 NT-9 NT-10 PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 5 Curve Date: 7/20/10 Analysis Start Date: 8/5/10

pH ≤ 2.0	YES / NO / NA	Method Blank In Control?	YES / NO
BFB Tune Meets Criteria?	YES / NO / NA	LCS / LCSD Recovery In Control?	YES / NO
Internal Standard Meets Criteria?	YES / NO / NA	Surrogate Recovery In Control?	YES / NO
ICal acceptable?	YES / NO	CCal acceptable?	YES / NO
Q flag applied?	YES / NO / NA	Q flag applied?	YES / NO / NA
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	Yes / NO
Special Analysis Criteria Met?	YES / NO / NA		

Bubbles/Headspace: None SM (≤ 2mm •) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst: _____ **Date:** 8/10/10

Reviewer: _____ **Date:** 8/10/10

Analytical Resources Inc.: Organics Instrument Log

FINN5 Serial No.: 5500-000421A

Date: 8/5/10 Analysis: 8260C Analyst: [illegible]

GC Program: F5 Column No: 877129 Column Type: MTX5 60m

Instrument Tune (.U or .CT.): BFB0805 EM Voltage: 1625

Calibration File: 0500805 Curve Date: 7/22/10

IS/SS	Ical/Ccal	LCS/ICV
W648-1	W646-2	W646-1

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/finn5.i/05AUG10.b

	Time	Filename	LabID	ClientID	WT								
1	1019	BFB0805.d	BFB0805	BFB0805	0.00								
2	1049	0500805.d	CC0805	VSTD050	5.00	6.62	125668	7.63	188990	10.78	158078	13.46	90647
3	1127	LCS0805.d	LCS0805	LCS0805	5.00	6.62	134706	7.64	194440	10.78	165853	13.47	90508
4	1201	LCS0805A.d	LCS0805	LCS0805	5.00	6.63	125375	7.65	185613	10.79	158771	13.48	88719
5	1228	MB0805.d	MB0805	MB0805	5.00	6.63	115941	7.64	175280	10.79	152278	13.47	76289
6	1323	LCS0805B.d	LCS0805	LCS0805	5.00	6.61	128727	7.63	185543	10.77	149563	13.46	84025
7	1406	RH29A.d	RH29A	P2IM-DB-WC-1410-S	5.00	6.62	116113	7.63	165044	10.78	140087	13.46	68646
8	1437	RG79A.d	RG79A	PSB11-0-0.5-073010	5.00	6.62	119555	7.64	172419	10.78	125003	13.47	39920
9	1502	RG79B.d	RG79B	PSB11-1.5-2-073010	5.00	6.63	124544	7.64	189331	10.79	143819	13.47	137551
10	1529	RG79C.d	RG79C	PSB11-2-4-073010	5.00	6.62	183633	7.64	257432	10.78	172556	13.46	62174
11	1555	RG79D.d	RG79D	PSB11-2-4-073010-D	5.00	6.62	156091	7.64	230038	10.78	170004	13.47	62557
12	1622	RG79E.d	RG79E	PSB11-4-6-073010	5.00	6.63	146361	7.65	216984	10.79	176180	13.48	85317
13	1649	RG79G.d	RG79G	PSB11-11-13-073010	5.00	6.63	122841	7.64	186440	10.78	137655	13.47	47177
14	1723	RG79H.d	RG79H	PSB11-14-16-073010	5.00	6.62	113499	7.64	177380	10.78	117085	13.47	38591
15	1744	RG79J.d	RG79J	PSB11-TB	1	6.64	127520	7.65	190295	10.80	155627	13.48	76606
16	1810	RG79K.d	RG79K	PSB15-0-0.5-073010	5.00	6.62	117040	7.64	174578	10.78	131624	13.47	50421
17	1837	RG79L.d	RG79L	PSB15-1.5-2-073010	5.00	6.62	122713	7.63	184802	10.77	148626	13.46	65261
18	1903	RG79M.d	RG79M	PSB15-2-4-073010	5.00	6.63	130045	7.65	192759	10.79	158368	13.48	68286
19	1930	RG79N.d	RG79N	PSB15-4-6-073010	5.00	6.63	130115	7.64	192981	10.79	165592	13.47	79779
20	1956	RG79O.d	RG79O	PSB15-13-15-073010	5.00	6.64	125926	7.65	186673	10.79	135886	13.48	47038
21	2023	RG79P.d	RG79P	PSB15-17-19-073010	5.00	6.64	128844	7.65	194009	10.79	161230	13.48	72905
22	2049	RG79Q.d	RG79Q	PSB15-17-19-073010-	5.00	6.63	128719	7.65	194732	10.79	166677	13.48	86257
23	2116	RG79EMS.d	RG79EMS	PSB11-4-6-07301 MS	5.00	6.64	149989	7.65	216227	10.80	156912	13.48	61799
24	2142	RG79EMSD.d	RG79EMSD	PSB11-4-6-07301 MSD	5.00	6.63	134120	7.64	196331	10.79	121505	13.47	37508
25	2208	RG79S.d	RG79S	PB15-TB	1	6.63	133082	7.64	196958	10.79	163115	13.47	79082

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem1/finn5.i/05AUG10.b

ARI Job No.: BFB0 Method: bfb8260.m Instrument: finn5.i Date: 05-AUG-2010

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1019	BFB0805.d	BFB0805	BFB0805	1	NO MANUAL INTEGRATION
1049	0500805.d	CC0805	VSTD050	1	NO MANUAL INTEGRATION
1201	LCS0805A.d	LCS0805	LCS0805	1	NO MANUAL INTEGRATION
1323	LCS0805B.d	LCS0805	LCS0805	1	NO MANUAL INTEGRATION
1228	MB0805.d	MB0805	MB0805	1	NO MANUAL INTEGRATION
1437	RG79A.d	RG79A	PSB11-0-0.	1	NO MANUAL INTEGRATION
1502	RG79B.d	RG79B	PSB11-1.5-	1	NO MANUAL INTEGRATION
1529	RG79C.d	RG79C	PSB11-2-4-	1	NO MANUAL INTEGRATION
1555	RG79D.d	RG79D	PSB11-2-4-	1	NO MANUAL INTEGRATION
1622	RG79E.d	RG79E	PSB11-4-6-	1	NO MANUAL INTEGRATION
1649	RG79G.d	RG79G	PSB11-11-1	1	NO MANUAL INTEGRATION
1723	RG79H.d	RG79H	PSB11-14-1	1	NO MANUAL INTEGRATION
1744	RG79J.d	RG79J	PSB11-TB	1	NO MANUAL INTEGRATION
1810	RG79K.d	RG79K	PSB15-0-0.	1	NO MANUAL INTEGRATION
1837	RG79L.d	RG79L	PSB15-1.5-	1	NO MANUAL INTEGRATION
1903	RG79M.d	RG79M	PSB15-2-4-	1	NO MANUAL INTEGRATION
1930	RG79N.d	RG79N	PSB15-4-6-	1	NO MANUAL INTEGRATION
1956	RG79O.d	RG79O	PSB15-13-1	1	NO MANUAL INTEGRATION
2023	RG79P.d	RG79P	PSB15-17-1	1	NO MANUAL INTEGRATION
2049	RG79Q.d	RG79Q	PSB15-17-1	1	NO MANUAL INTEGRATION
2208	RG79S.d	RG79S	PB15-TB	1	NO MANUAL INTEGRATION

2116	RG79EMS.d	RG79EMS	PSB11-4-6-	1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem1/finn5.i/05AUG10.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2142	RG79EMSD.d	RG79EMSD	PSB11-4-6-	1	NO MANUAL INTEGRATION

Q-FLAG SUMMARY FOR DATABATCH - /chem1/finn5.i/05AUG10.b

Instrument: finn5.i Date: 05-AUG-2010 Method: s8260b.m

INITIAL CAL: 23-JUL-2010

Compound	%RSD or R^2
NO Q-FLAGS	

CONTINUING CAL: 05-AUG-2010

Compound	%D
Chloromethane	-22.2
1,1,1,2-Tetrachloroethane	-23.3
1,2,3-Trichloropropane	-21.1
1,2-Dibromo 3-Chloropropane	-22.8

Data File: /chem1/finn5.i/05AUG10.b/BFB0805.d

Date : 05-AUG-2010 10:19

Client ID: BFB0805

Instrument: finn5.i

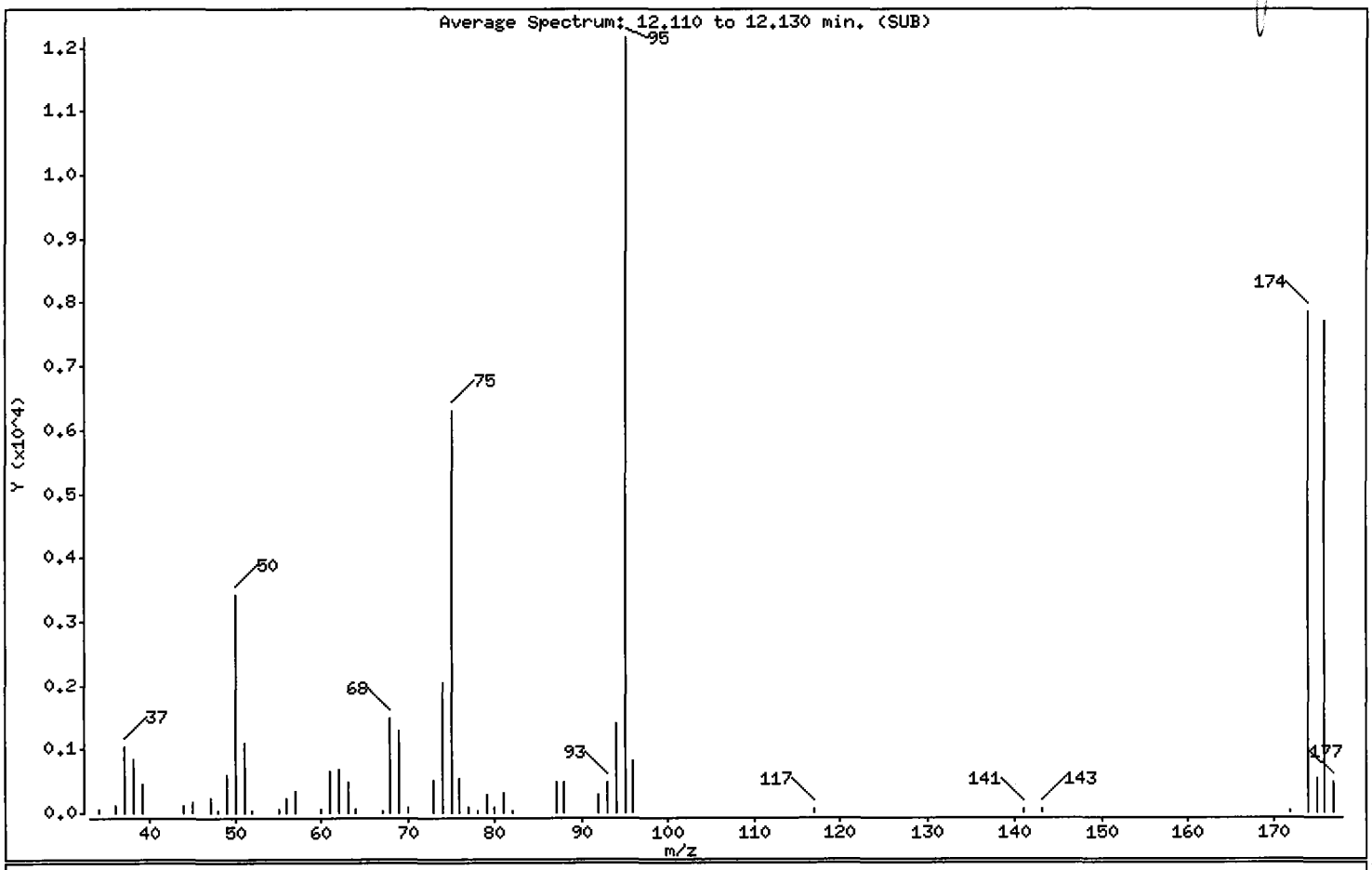
Sample Info: BFB0805,BFB0805,,1,05AUG10,,

Operator: PB

Column phase: RTX502.2

Column diameter: 0.18

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	28.20
75	30.00 - 66.00% of mass 95	51.89
96	5.00 - 9.00% of mass 95	6.75
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 101.00% of mass 95	64.44
175	4.00 - 9.00% of mass 174	4.34 (6.74)
176	93.00 - 101.00% of mass 174	63.42 (98.42)
177	5.00 - 9.00% of mass 176	3.82 (6.02)

Data File: /chem1/finn5.i/05AUG10.b/BFB0805.d

Date : 05-AUG-2010 10:19

Client ID: BFB0805

Instrument: finn5.i

Sample Info: BFB0805,BFB0805,,1,05AUG10,,

Operator: PB

Column phase: RTX502.2

Column diameter: 0.18

Data File: BFB0805.d
Spectrum: Average Spectrum: 12.110 to 12.130 min. (SUB)
Location of Maximum: 95.00
Number of points: 50

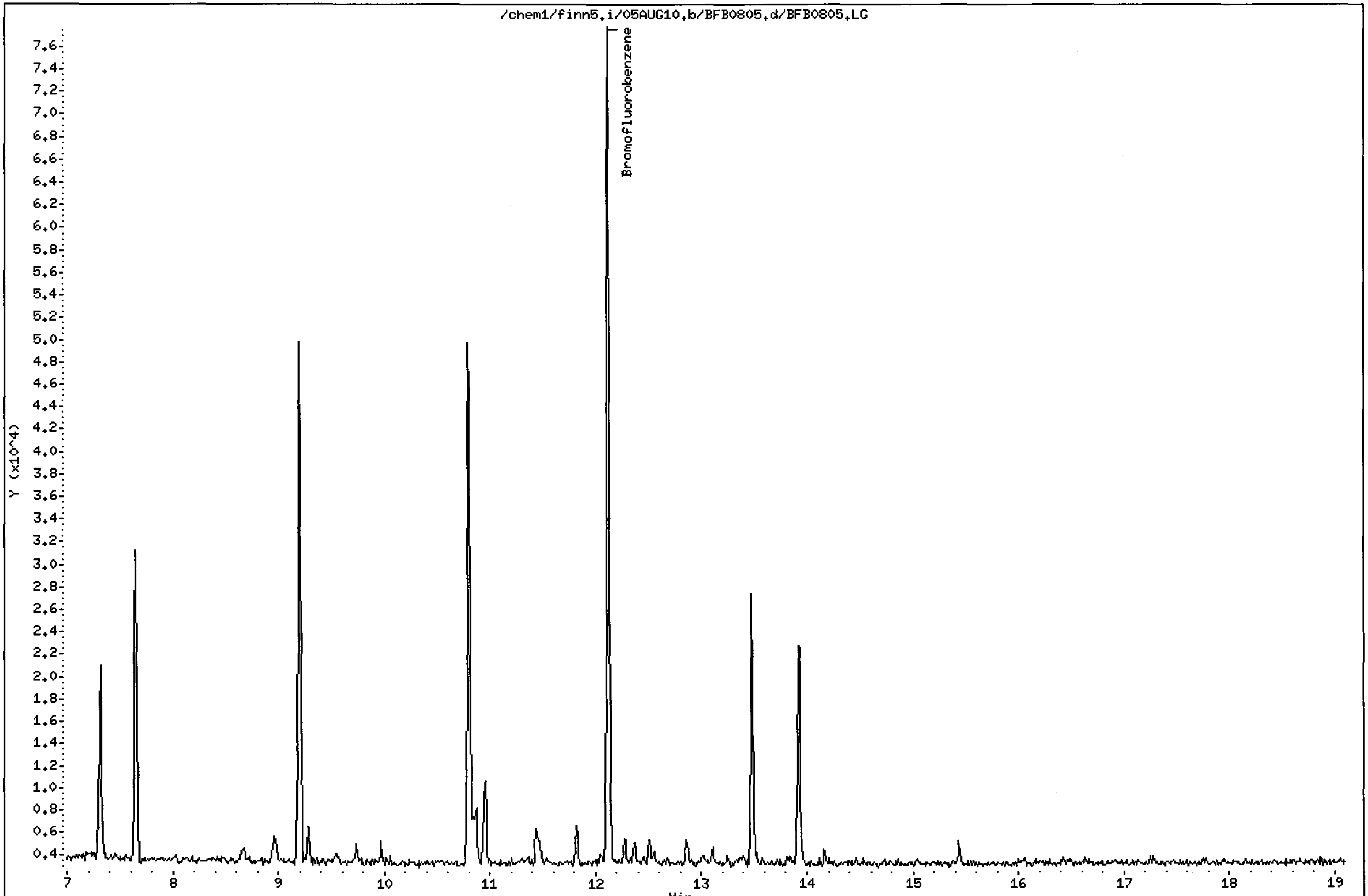
m/z	Y	m/z	Y	m/z	Y	m/z	Y
34.00	60	55.00	68	74.00	2040	94.00	1405
36.00	105	56.00	222	75.00	6308	95.00	12157
37.00	1048	57.00	341	76.00	540	96.00	820
38.00	834	60.00	60	77.00	74	117.00	44
39.00	459	61.00	639	78.00	17	141.00	50
44.00	106	62.00	676	79.00	271	143.00	66
45.00	160	63.00	463	80.00	85	172.00	20
47.00	225	64.00	43	81.00	311	174.00	7834
48.00	25	67.00	22	82.00	39	175.00	528
49.00	598	68.00	1495	87.00	481	176.00	7710
50.00	3428	69.00	1278	88.00	468	177.00	464
51.00	1079	70.00	85	92.00	277		
52.00	34	73.00	505	93.00	488		

Data File: /chem1/finn5.i/05AUG10.b/BFB0805.d
Date : 05-AUG-2010 10:19
Client ID: BFB0805
Sample Info: BFB0805,BFB0805,,1,05AUG10,,

Column phase: RTX502.2

Instrument: finn5.i

Operator: PB
Column diameter: 0.18



RG79:00391

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/05AUG10.b/0500805.d
Lab Smp Id: CC0805 Client Smp ID: VSTD050
Inj Date : 05-AUG-2010 10:49
Operator : PB Inst ID: finn5.i
Smp Info : CC0805,5,5,0
Misc Info : 10-
Comment :
Method : /chem1/finn5.i/05AUG10.b/s8260b.m
Meth Date : 05-Aug-2010 11:47 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
1 Dichlorodifluoromethane	85	3.005	3.005	(0.454)	71131	50.0000	43.651
2 Chloromethane	50	3.306	3.306	(0.499)	170574	50.0000	38.906
3 Vinyl Chloride	62	3.417	3.417	(0.516)	153011	50.0000	44.133
4 Bromomethane	94	3.909	3.909	(0.590)	105093	50.0000	55.816
5 Chloroethane	64	3.970	3.970	(0.599)	103169	50.0000	45.566
6 Trichlorofluoromethane	101	4.231	4.231	(0.639)	153184	50.0000	45.715
7 Acrolein	56	4.623	4.623	(0.698)	94688	250.000	226.53
8 112Trichloro122Trifluoroethane	101	4.633	4.633	(0.700)	119178	50.0000	45.430
9 Acetone	43	4.673	4.673	(0.706)	159111	250.000	226.24
10 1,1-Dichloroethene	96	4.834	4.834	(0.730)	109459	50.0000	45.981
11 Bromoethane	108	5.055	5.055	(0.763)	82134	50.0000	46.591
12 Iodomethane	142	5.156	5.156	(0.778)	150470	50.0000	53.461
13 Methylene Chloride	84	5.266	5.266	(0.795)	110487	50.0000	41.219
14 Acrylonitrile	53	5.347	5.347	(0.807)	31742	50.0000	51.121(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.387	5.387	(0.813)	154409	50.0000	42.179(Q)
	15 Carbon Disulfide	76	5.367	5.367	(0.810)	381205	50.0000	51.632
	17 Trans-1,2-Dichloroethene	96	5.548	5.548	(0.838)	94080	50.0000	46.374
	18 Vinyl Acetate	43	5.869	5.869	(0.886)	181419	50.0000	51.058
	19 1,1-Dichloroethane	63	5.929	5.929	(0.895)	175323	50.0000	46.976
	20 2-Butanone	43	6.271	6.271	(0.947)	190016	250.000	240.12
	21 2,2-Dichloropropane	77	6.452	6.452	(0.974)	94982	50.0000	41.591
	22 Cis-1,2-Dichloroethene	96	6.492	6.492	(0.980)	84110	50.0000	47.040
*	23 Pentafluorobenzene	168	6.623	6.623	(1.000)	125668	50.0000	
	24 Chloroform	83	6.633	6.633	(1.002)	137382	50.0000	45.318
	26 Bromochloromethane	128	6.804	6.804	(1.027)	40341	50.0000	47.521
$	25 Dibromofluoromethane	111	6.834	6.834	(1.032)	74671	50.0000	49.854(Q)
	27 1,1,1-Trichloroethane	97	7.025	7.025	(1.061)	97321	50.0000	41.275
	29 1,1-Dichloropropene	75	7.176	7.176	(0.941)	113032	50.0000	44.042
	30 Carbon Tetrachloride	117	7.286	7.286	(0.955)	89925	50.0000	40.294
$	31 d4-1,2-Dichloroethane	65	7.296	7.296	(1.102)	79433	50.0000	48.468
	32 1,2-Dichloroethane	62	7.387	7.387	(0.968)	100470	50.0000	44.594
	33 Benzene	78	7.437	7.437	(0.975)	285835	50.0000	46.058
*	34 1,4-Difluorobenzene	114	7.628	7.628	(1.000)	188990	50.0000	
	35 Trichloroethene	95	8.000	8.000	(1.049)	79363	50.0000	43.648
	36 1,2-Dichloropropane	63	8.161	8.161	(1.070)	86865	50.0000	44.403
	37 Bromodichloromethane	83	8.402	8.402	(1.101)	93048	50.0000	44.488
	39 Dibromomethane	93	8.472	8.472	(1.111)	44462	50.0000	45.785
	40 2-Chloroethyl Vinyl Ether	63	8.613	8.613	(1.129)	34542	50.0000	50.420
	41 4-Methyl-2-Pentanone	58	8.653	8.653	(1.134)	110669	250.000	221.52
	42 Cis 1,3-dichloropropene	75	8.904	8.904	(1.167)	108936	50.0000	47.704
$	43 d8-Toluene	98	9.176	9.176	(1.203)	218864	50.0000	52.705
	44 Toluene	92	9.266	9.266	(1.215)	160477	50.0000	43.584
	45 Trans 1,3-Dichloropropene	75	9.397	9.397	(1.232)	88808	50.0000	46.267
	46 2-Hexanone	43	9.527	9.527	(0.884)	263097	250.000	203.60
	47 1,1,2-Trichloroethane	97	9.578	9.578	(1.256)	52292	50.0000	45.618
	48 1,3-Dichloropropane	76	9.839	9.839	(0.912)	100570	50.0000	45.203
	49 Tetrachloroethene	166	9.949	9.949	(0.923)	70719	50.0000	40.267
	50 Chlorodibromomethane	129	10.161	10.161	(0.942)	64926	50.0000	43.380
	51 1,2-Dibromoethane	107	10.382	10.382	(1.361)	54206	50.0000	44.148
*	52 d5-Chlorobenzene	117	10.784	10.784	(1.000)	158078	50.0000	
	53 Chlorobenzene	112	10.824	10.824	(1.004)	163233	50.0000	44.025
	54 Ethyl Benzene	91	10.854	10.854	(1.007)	296951	50.0000	47.361
	55 1,1,1,2-Tetrachloroethane	131	10.844	10.844	(1.006)	54450	50.0000	38.372
	56 m,p-xylene	106	10.934	10.934	(1.014)	229686	100.000	100.23
	57 o-Xylene	106	11.427	11.427	(1.060)	109687	50.0000	46.053
	58 Styrene	104	11.457	11.457	(1.062)	186205	50.0000	50.563
	59 Isopropyl Benzene	105	11.809	11.809	(0.878)	291032	50.0000	47.695
	60 Bromoform	173	11.869	11.869	(0.882)	39704	50.0000	40.470
	61 1,1,2,2-Tetrachloroethane	83	11.980	11.980	(0.890)	72021	50.0000	40.855
$	62 4-Bromofluorobenzene	95	12.100	12.100	(1.122)	93710	50.0000	50.653
	63 1,2,3-Trichloropropane	110	12.150	12.150	(0.903)	13782	50.0000	39.465

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/Kg)	AMOUNTS ON-COL (ug/Kg)
	65 Trans-1,4-Dichloro 2-Butene	53	12.201	12.201	(0.907)	26484	50.0000	48.882
	66 N-Propyl Benzene	91	12.261	12.261	(0.911)	365683	50.0000	46.424
	67 Bromobenzene	156	12.351	12.351	(0.918)	72472	50.0000	42.605
	68 1,3,5-Trimethyl Benzene	105	12.432	12.432	(0.924)	244690	50.0000	49.400
	69 2-Chloro Toluene	91	12.492	12.492	(0.928)	235984	50.0000	45.594
	70 4-Chloro Toluene	91	12.532	12.532	(0.931)	243998	50.0000	49.181
	71 T-Butyl Benzene	119	12.844	12.844	(0.954)	210488	50.0000	49.673
	72 1,2,4-Trimethylbenzene	105	12.894	12.894	(0.958)	249117	50.0000	51.089
	73 S-Butyl Benzene	105	13.085	13.085	(0.972)	333979	50.0000	47.907
	74 4-Isopropyl Toluene	119	13.236	13.236	(0.984)	248973	50.0000	52.048
	75 1,3-Dichlorobenzene	146	13.387	13.387	(0.995)	140426	50.0000	48.320
*	76 d4-1,4-Dichlorobenzene	152	13.457	13.457	(1.000)	90647	50.0000	
	77 1,4-Dichlorobenzene	146	13.497	13.497	(1.003)	141785	50.0000	48.755
	78 N-Butyl Benzene	91	13.708	13.708	(1.019)	283759	50.0000	54.934
$	79 d4-1,2-Dichlorobenzene	152	13.909	13.909	(1.034)	80798	50.0000	49.004
	80 1,2-Dichlorobenzene	146	13.939	13.939	(1.036)	127298	50.0000	46.089
	81 1,2-Dibromo 3-Chloropropane	75	14.844	14.844	(1.103)	11776	50.0000	38.607
	82 1,2,4-Trichlorobenzene	180	15.889	15.889	(1.181)	79799	50.0000	47.477
	83 Hexachloro 1,3-Butadiene	225	16.040	16.040	(1.192)	49005	50.0000	43.290
	84 Naphthalene	128	16.211	16.211	(1.205)	129904	50.0000	42.612
	85 1,2,3-Trichlorobenzene	180	16.502	16.502	(1.226)	70169	50.0000	43.667

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: 0500805.d
Lab Smp Id: CC0805
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-

Calibration Date: 05-AUG-2010
Calibration Time: 10:49
Client Smp ID: VSTD050
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	125668	-4.15
34 1,4-Difluorobenze	191559	95780	383118	188990	-1.34
52 d5-Chlorobenzene	161199	80600	322398	158078	-1.94
76 d4-1,4-Dichlorobe	88279	44140	176558	90647	2.68

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.62	0.00
34 1,4-Difluorobenze	7.63	7.13	8.13	7.63	0.00
52 d5-Chlorobenzene	10.78	10.28	11.28	10.78	0.00
76 d4-1,4-Dichlorobe	13.47	12.97	13.97	13.46	-0.07

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: finn5.i
Lab File ID: 0500805.d
Analysis Type: SOIL
Lab Sample ID: CC0805
Method: /chem1/finn5.i/05AUG10.b/s8260b.m

Injection Date: 05-AUG-2010 10:49
Init. Cal. Date(s): 23-JUL-2010 23-JUL-2010
Init. Cal. Times: 17:18 20:28
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
1 Dichlorodifluoromethane	0.64835	0.56603	0.010	-12.69705	20.00000	Averaged	
2 Chloromethane	1.74440	1.35734	0.100	-22.18861	20.00000	Averaged	<--
3 Vinyl Chloride	1.37944	1.21759	0.010	-11.73333	20.00000	Averaged	
4 Bromomethane	0.74914	0.83628	0.010	11.63163	20.00000	Averaged	
5 Chloroethane	0.90084	0.82096	0.010	-8.86724	20.00000	Averaged	
6 Trichlorofluoromethane	1.33321	1.21896	0.010	-8.56972	20.00000	Averaged	
7 Acrolein	0.16631	0.15070	0.010	-9.38626	20.00000	Averaged	
8 112Trichloro122Trifluoroeth	1.04376	0.94836	0.010	-9.14036	20.00000	Averaged	
9 Acetone	0.27982	0.25322	0.010	-9.50305	20.00000	Averaged	
10 1,1-Dichloroethene	0.94715	0.87102	0.010	-8.03756	20.00000	Averaged	
11 Bromoethane	0.70140	0.65358	0.010	-6.81869	20.00000	Averaged	
12 Iodomethane	1.11986	1.19737	0.010	6.92141	20.00000	Averaged	
13 Methylene Chloride	1.06648	0.87920	0.010	-17.56105	20.00000	Averaged	
14 Acrylonitrile	0.24705	0.25259	0.010	2.24180	20.00000	Averaged	
16 Methyl tert-Butyl Ether	1.45653	1.22871	0.010	-15.64126	20.00000	Averaged	
15 Carbon Disulfide	2.93755	3.03343	0.010	3.26385	20.00000	Averaged	
17 Trans-1,2-Dichloroethene	0.80717	0.74864	0.010	-7.25128	20.00000	Averaged	
18 Vinyl Acetate	1.41371	1.44364	0.010	2.11660	20.00000	Averaged	
19 1,1-Dichloroethane	1.48492	1.39513	0.100	-6.04697	20.00000	Averaged	
20 2-Butanone	0.31485	0.30241	0.010	-3.95112	20.00000	Averaged	
21 2,2-Dichloropropane	0.90863	0.75582	0.010	-16.81762	20.00000	Averaged	
22 Cis-1,2-Dichloroethene	0.71142	0.66930	0.010	-5.92014	20.00000	Averaged	
24 Chloroform	1.20617	1.09322	0.010	-9.36439	20.00000	Averaged	
26 Bromochloromethane	0.33777	0.32102	0.010	-4.95862	20.00000	Averaged	
$ 25 Dibromofluoromethane	0.59593	0.59419	0.010	-0.29091	20.00000	Averaged	
27 1,1,1-Trichloroethane	0.93813	0.77443	0.010	-17.44976	20.00000	Averaged	
29 1,1-Dichloropropene	0.67899	0.59808	0.010	-11.91489	20.00000	Averaged	
30 Carbon Tetrachloride	0.59044	0.47582	0.010	-19.41184	20.00000	Averaged	
$ 31 d4-1,2-Dichloroethane	0.65208	0.63209	0.010	-3.06492	20.00000	Averaged	
32 1,2-Dichloroethane	0.59607	0.53162	0.010	-10.81221	20.00000	Averaged	
33 Benzene	1.64186	1.51244	0.010	-7.88291	20.00000	Averaged	
35 Trichloroethene	0.48104	0.41994	0.010	-12.70308	20.00000	Averaged	
36 1,2-Dichloropropane	0.51756	0.45963	0.010	-11.19353	20.00000	Averaged	
37 Bromodichloromethane	0.55335	0.49235	0.010	-11.02500	20.00000	Averaged	
39 Dibromomethane	0.25692	0.23526	0.010	-8.42946	20.00000	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: finn5.i
Lab File ID: 0500805.d
Analysis Type: SOIL
Lab Sample ID: CC0805
Method: /chem1/finn5.i/05AUG10.b/s8260b.m

Injection Date: 05-AUG-2010 10:49
Init. Cal. Date(s): 23-JUL-2010 23-JUL-2010
Init. Cal. Times: 17:18 20:28
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
40 2-Chloroethyl Vinyl Ether	0.18125	0.18278	0.001	0.84017	20.00000	Averaged	
41 4-Methyl-2-Pentanone	0.13218	0.11712	0.010	-11.39278	20.00000	Averaged	
42 Cis 1,3-dichloropropene	0.60415	0.57641	0.010	-4.59084	20.00000	Averaged	
$ 43 d8-Toluene	1.09864	1.15807	0.010	5.40966	20.00000	Averaged	
44 Toluene	0.97414	0.84913	0.010	-12.83290	20.00000	Averaged	
45 Trans 1,3-Dichloropropene	0.50782	0.46991	0.010	-7.46503	20.00000	Averaged	
46 2-Hexanone	0.40872	0.33287	0.010	-18.55835	20.00000	Averaged	
47 1,1,2-Trichloroethane	0.30327	0.27669	0.010	-8.76306	20.00000	Averaged	
48 1,3-Dichloropropane	0.70372	0.63620	0.010	-9.59466	20.00000	Averaged	
49 Tetrachloroethene	0.55550	0.44737	0.010	-19.46532	20.00000	Averaged	
50 Chlorodibromomethane	0.47341	0.41073	0.010	-13.24090	20.00000	Averaged	
51 1,2-Dibromoethane	0.32484	0.28682	0.010	-11.70403	20.00000	Averaged	
53 Chlorobenzene	1.17275	1.03261	0.300	-11.94934	20.00000	Averaged	
54 Ethyl Benzene	1.98319	1.87851	0.010	-5.27857	20.00000	Averaged	
55 1,1,1,2-Tetrachloroethane	0.44884	0.34446	0.010	-23.25658	20.00000	Averaged	<-
56 m,p-xylene	0.72486	0.72650	0.010	0.22620	20.00000	Averaged	
57 o-Xylene	0.75335	0.69388	0.010	-7.89409	20.00000	Averaged	
58 Styrene	1.16482	1.17793	0.010	1.12561	20.00000	Averaged	
59 Isopropyl Benzene	3.36576	3.21061	0.010	-4.60960	20.00000	Averaged	
60 Bromoform	0.54116	0.43801	0.100	-19.05988	20.00000	Averaged	
61 1,1,2,2-Tetrachloroethane	0.97237	0.79453	0.300	-18.28995	20.00000	Averaged	
$ 62 4-Bromofluorobenzene	0.58517	0.59281	0.010	1.30590	20.00000	Averaged	
63 1,2,3-Trichloropropane	0.19264	0.15205	0.010	-21.06985	20.00000	Averaged	<-
65 Trans-1,4-Dichloro 2-Butene	0.29886	0.29218	0.010	-2.23628	20.00000	Averaged	
66 N-Propyl Benzene	4.34491	4.03414	0.010	-7.15259	20.00000	Averaged	
67 Bromobenzene	0.93828	0.79950	0.010	-14.79045	20.00000	Averaged	
68 1,3,5-Trimethyl Benzene	2.73214	2.69938	0.010	-1.19919	20.00000	Averaged	
69 2-Chloro Toluene	2.85492	2.60333	0.010	-8.81232	20.00000	Averaged	
70 4-Chloro Toluene	2.73658	2.69174	0.010	-1.63871	20.00000	Averaged	
71 T-Butyl Benzene	2.33736	2.32206	0.010	-0.65456	20.00000	Averaged	
72 1,2,4-Trimethylbenzene	2.68961	2.74821	0.010	2.17862	20.00000	Averaged	
73 S-Butyl Benzene	3.84536	3.68439	0.010	-4.18614	20.00000	Averaged	
74 4-Isopropyl Toluene	2.63853	2.74662	0.010	4.09642	20.00000	Averaged	
75 1,3-Dichlorobenzene	1.60301	1.54915	0.010	-3.36011	20.00000	Averaged	
77 1,4-Dichlorobenzene	1.60408	1.56415	0.010	-2.48941	20.00000	Averaged	

Analytical Resources, Inc.

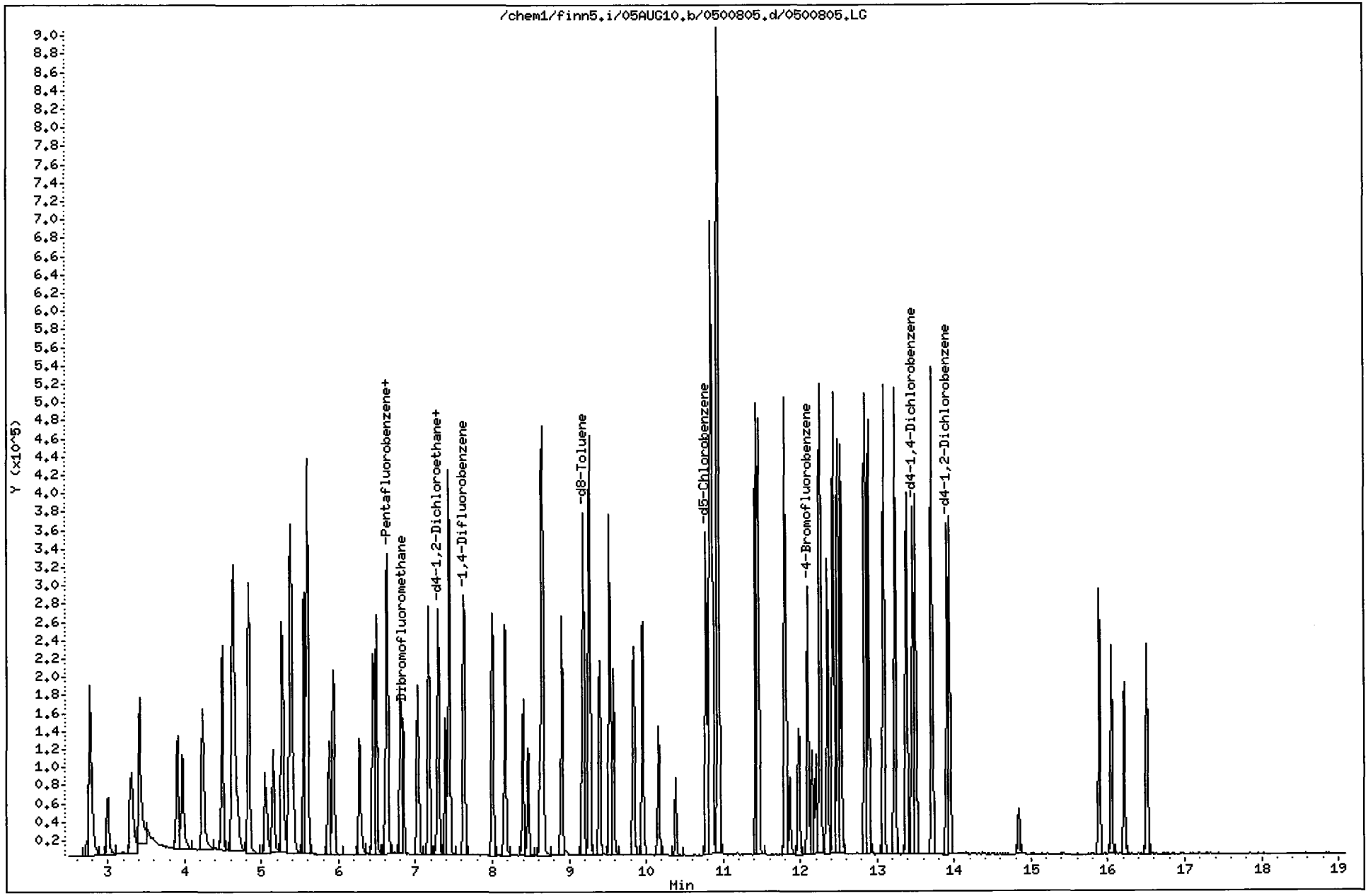
CONTINUING CALIBRATION COMPOUNDS

Instrument ID: finn5.i Injection Date: 05-AUG-2010 10:49
Lab File ID: 0500805.d Init. Cal. Date(s): 23-JUL-2010 23-JUL-2010
Analysis Type: SOIL Init. Cal. Times: 17:18 20:28
Lab Sample ID: CC0805 Quant Type: ISTD
Method: /chem1/finn5.i/05AUG10.b/s8260b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
78 N-Butyl Benzene	2.84923	3.13037	0.010	9.86726	20.00000	Averaged	
$ 79 d4-1,2-Dichlorobenzene	0.90947	0.89136	0.010	-1.99120	20.00000	Averaged	
80 1,2-Dichlorobenzene	1.52349	1.40433	0.010	-7.82146	20.00000	Averaged	
81 1,2-Dibromo 3-Chloropropane	0.16826	0.12992	0.010	-22.78660	20.00000	Averaged	<-
82 1,2,4-Trichlorobenzene	0.92710	0.88033	0.010	-5.04501	20.00000	Averaged	
83 Hexachloro 1,3-Butadiene	0.62441	0.54062	0.010	-13.41911	20.00000	Averaged	
84 Naphthalene	1.68157	1.43308	0.010	-14.77691	20.00000	Averaged	
85 1,2,3-Trichlorobenzene	0.88636	0.77409	0.010	-12.66591	20.00000	Averaged	

Data File: /chem1/finn5.i/05AUG10.b/0500805.d
Date : 05-AUG-2010 10:49
Client ID: VSTD050
Sample Info: CC0805,5,5,0

Instrument: finn5.i
Operator: PB
Column phase: Rtx502.2
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/05AUG10.b/LCS0805A.d
Lab Smp Id: LCS0805 Client Smp ID: LCS0805
Inj Date : 05-AUG-2010 12:01
Operator : PB Inst ID: finn5.i
Smp Info : LCS0805,5,5,0
Misc Info : 10-18890
Comment :
Method : /chem1/finn5.i/05AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:03 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	3.015	3.005	(0.455)	73746	45.3616	45.362
2 Chloromethane	50	3.316	3.306	(0.500)	182107	41.6332	41.633
3 Vinyl Chloride	62	3.427	3.417	(0.517)	159661	46.1589	46.159
4 Bromomethane	94	3.919	3.909	(0.591)	116067	61.7882	61.788
5 Chloroethane	64	3.990	3.970	(0.602)	106761	47.2631	47.263
6 Trichlorofluoromethane	101	4.251	4.231	(0.641)	160294	47.9488	47.949
7 Acrolein	56	4.633	4.623	(0.698)	98645	236.552	236.55
8 112Trichloro122Trifluoroethane	101	4.653	4.633	(0.702)	125470	47.9401	47.940
9 Acetone	43	4.693	4.673	(0.708)	167663	238.960	238.96
10 1,1-Dichloroethene	96	4.844	4.834	(0.730)	114029	48.0127	48.013
11 Bromoethane	108	5.065	5.055	(0.764)	87658	49.8404	49.840
12 Iodomethane	142	5.166	5.156	(0.779)	158871	56.5772	56.577
13 Methylene Chloride	84	5.286	5.266	(0.797)	114954	42.9862	42.986
14 Acrylonitrile	53	5.367	5.347	(0.809)	33743	54.4697	54.470(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.407	5.387	(0.815)	160075	43.8292	43.829(Q)
	15 Carbon Disulfide	76	5.387	5.367	(0.812)	393500	53.4218	53.422
	17 Trans-1,2-Dichloroethene	96	5.568	5.548	(0.839)	99909	49.3624	49.362
	18 Vinyl Acetate	43	5.889	5.869	(0.888)	190035	53.6082	53.608
	19 1,1-Dichloroethane	63	5.950	5.929	(0.897)	184385	49.5200	49.520
	20 2-Butanone	43	6.291	6.271	(0.948)	205523	260.325	260.32
	21 2,2-Dichloropropane	77	6.472	6.452	(0.976)	97334	42.7204	42.720
	22 Cis-1,2-Dichloroethene	96	6.502	6.492	(0.980)	90380	50.6647	50.665
*	23 Pentafluorobenzene	168	6.633	6.623	(1.000)	125375	50.0000	
	24 Chloroform	83	6.653	6.633	(1.003)	144978	47.9351	47.935
	26 Bromochloromethane	128	6.814	6.804	(1.027)	42123	49.7348	49.735
$	25 Dibromofluoromethane	111	6.854	6.834	(1.033)	75409	50.4648	50.465(Q)
	27 1,1,1-Trichloroethane	97	7.045	7.025	(1.062)	102588	43.6106	43.610
	29 1,1-Dichloropropene	75	7.186	7.176	(0.940)	118789	47.1278	47.128
	30 Carbon Tetrachloride	117	7.296	7.286	(0.954)	93900	42.8404	42.840
$	31 d4-1,2-Dichloroethane	65	7.316	7.296	(1.103)	82824	50.6543	50.654
	32 1,2-Dichloroethane	62	7.407	7.387	(0.968)	102000	46.0965	46.096
	33 Benzene	78	7.457	7.437	(0.975)	300918	49.3711	49.371
*	34 1,4-Difluorobenzene	114	7.648	7.628	(1.000)	185613	50.0000	
	35 Trichloroethene	95	8.020	8.000	(1.049)	84562	47.3536	47.354
	36 1,2-Dichloropropane	63	8.181	8.161	(1.070)	89418	46.5399	46.540
	37 Bromodichloromethane	83	8.412	8.402	(1.100)	97134	47.2857	47.286
	39 Dibromomethane	93	8.482	8.472	(1.109)	45888	48.1133	48.113
	40 2-Chloroethyl Vinyl Ether	63	8.633	8.613	(1.129)	35889	53.3382	53.338(Q)
	41 4-Methyl-2-Pentanone	58	8.663	8.653	(1.133)	120099	244.766	244.76
	42 Cis 1,3-dichloropropene	75	8.914	8.904	(1.166)	112982	50.3763	50.376
$	43 d8-Toluene	98	9.196	9.176	(1.202)	209868	51.4580	51.458
	44 Toluene	92	9.276	9.266	(1.213)	168202	46.5126	46.513
	45 Trans 1,3-Dichloropropene	75	9.407	9.397	(1.230)	89673	47.5679	47.568
	46 2-Hexanone	43	9.537	9.527	(0.884)	286467	220.722	220.72
	47 1,1,2-Trichloroethane	97	9.588	9.578	(1.254)	55002	48.8556	48.856
	48 1,3-Dichloropropane	76	9.849	9.839	(0.912)	106216	47.5320	47.532
	49 Tetrachloroethene	166	9.970	9.949	(0.924)	76389	43.3055	43.306
	50 Chlorodibromomethane	129	10.171	10.161	(0.942)	67654	45.0044	45.004
	51 1,2-Dibromoethane	107	10.402	10.382	(1.360)	58579	48.5776	48.578
*	52 d5-Chlorobenzene	117	10.794	10.784	(1.000)	158771	50.0000	
	53 Chlorobenzene	112	10.834	10.824	(1.004)	171366	46.0171	46.017
	54 Ethyl Benzene	91	10.864	10.854	(1.007)	312949	49.6944	49.694
	55 1,1,1,2-Tetrachloroethane	131	10.864	10.844	(1.007)	57563	40.3878	40.388
	56 m,p-xylene	106	10.954	10.934	(1.015)	244243	106.113	106.11
	57 o-Xylene	106	11.437	11.427	(1.060)	118716	49.6261	49.626
	58 Styrene	104	11.467	11.457	(1.062)	196295	53.0699	53.070
	59 Isopropyl Benzene	105	11.819	11.809	(0.877)	309834	51.8800	51.880
	60 Bromoform	173	11.879	11.869	(0.881)	42543	44.3057	44.306
	61 1,1,2,2-Tetrachloroethane	83	12.000	11.980	(0.890)	78285	45.3731	45.373
$	62 4-Bromofluorobenzene	95	12.120	12.100	(1.123)	92359	49.7047	49.705
	63 1,2,3-Trichloropropane	110	12.171	12.150	(0.903)	15566	45.5398	45.540

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	65 Trans-1,4-Dichloro 2-Butene	53	12.221	12.201	(0.907)	28658	54.0421	54.042
	66 N-Propyl Benzene	91	12.271	12.261	(0.910)	384288	49.8459	49.846
	67 Bromobenzene	156	12.361	12.351	(0.917)	77269	46.4116	46.412
	68 1,3,5-Trimethyl Benzene	105	12.442	12.432	(0.923)	265130	54.6902	54.690
	69 2-Chloro Toluene	91	12.502	12.492	(0.928)	245268	48.4173	48.417
	70 4-Chloro Toluene	91	12.552	12.532	(0.931)	270815	55.7721	55.772
	71 T-Butyl Benzene	119	12.854	12.844	(0.954)	225341	54.3334	54.333
	72 1,2,4-Trimethylbenzene	105	12.904	12.894	(0.957)	264178	55.3554	55.355
	73 S-Butyl Benzene	105	13.105	13.085	(0.972)	362211	53.0858	53.086
	74 4-Isopropyl Toluene	119	13.246	13.236	(0.983)	275693	58.8866	58.887
	75 1,3-Dichlorobenzene	146	13.397	13.387	(0.994)	154540	54.3322	54.332
*	76 d4-1,4-Dichlorobenzene	152	13.477	13.457	(1.000)	88719	50.0000	
	77 1,4-Dichlorobenzene	146	13.507	13.497	(1.002)	153086	53.7851	53.785
	78 N-Butyl Benzene	91	13.728	13.708	(1.019)	306466	60.6190	60.619
$	79 d4-1,2-Dichlorobenzene	152	13.919	13.909	(1.033)	80224	49.7131	49.713
	80 1,2-Dichlorobenzene	146	13.949	13.939	(1.035)	138221	51.1314	51.131
	81 1,2-Dibromo 3-Chloropropane	75	14.854	14.844	(1.102)	13950	46.7256	46.726
	82 1,2,4-Trichlorobenzene	180	15.899	15.889	(1.180)	91476	55.6076	55.608
	83 Hexachloro 1,3-Butadiene	225	16.060	16.040	(1.192)	56724	51.1975	51.198
	84 Naphthalene	128	16.231	16.211	(1.204)	153030	51.2880	51.288
	85 1,2,3-Trichlorobenzene	180	16.522	16.502	(1.226)	80851	51.4079	51.408

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: LCS0805A.d
Lab Smp Id: LCS0805
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18890

Calibration Date: 05-AUG-2010
Calibration Time: 10:49
Client Smp ID: LCS0805
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	125375	-4.38
34 1,4-Difluorobenze	191559	95780	383118	185613	-3.10
52 d5-Chlorobenzene	161199	80600	322398	158771	-1.51
76 d4-1,4-Dichlorobe	88279	44140	176558	88719	0.50

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.63	0.15
34 1,4-Difluorobenze	7.63	7.13	8.13	7.65	0.26
52 d5-Chlorobenzene	10.78	10.28	11.28	10.79	0.09
76 d4-1,4-Dichlorobe	13.46	12.96	13.96	13.48	0.15

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: 05AUG10
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: LCS0805 Client Smp ID: LCS0805
Level: LOW Operator: PB
Data Type: MS DATA SampleType: LCS
SpikeList File: all.spk Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18890

SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
1	Dichlorodifluorome	50.000	45.362	90.72	53-148
2	Chloromethane	50.000	41.633	83.27	64-125
3	Vinyl Chloride	50.000	46.159	92.32	63-137
4	Bromomethane	50.000	61.788	123.58	57-136
5	Chloroethane	50.000	47.263	94.53	64-131
6	Trichlorofluoromet	50.000	47.949	95.90	69-132
7	Acrolein	250.00	236.55	94.62	54-137
8	112Trichloro122Tri	50.000	47.940	95.88	74-130
9	Acetone	250.00	238.96	95.58	60-131
10	1,1-Dichloroethene	50.000	48.013	96.03	75-126
11	Bromoethane	50.000	49.840	99.68	76-126
12	Iodomethane	50.000	56.577	113.15	65-139
13	Methylene Chloride	50.000	42.986	85.97	70-123
15	Carbon Disulfide	50.000	53.422	106.84	71-129
14	Acrylonitrile	50.000	54.470	108.94	67-125
16	Methyl tert-Butyl	50.000	43.829	87.66	70-120
17	Trans-1,2-Dichloro	50.000	49.362	98.72	80-120
18	Vinyl Acetate	50.000	53.608	107.22	60-136
19	1,1-Dichloroethane	50.000	49.520	99.04	80-120
20	2-Butanone	250.00	260.32	104.13	70-120
21	2,2-Dichloropropan	50.000	42.720	85.44	74-123
22	Cis-1,2-Dichloroet	50.000	50.665	101.33	80-120
24	Chloroform	50.000	47.935	95.87	80-120
26	Bromochloromethane	50.000	49.735	99.47	80-120
27	1,1,1-Trichloroeth	50.000	43.610	87.22	77-121
29	1,1-Dichloropropen	50.000	47.128	94.26	80-120
30	Carbon Tetrachlori	50.000	42.840	85.68	77-122
32	1,2-Dichloroethane	50.000	46.096	92.19	76-120
33	Benzene	50.000	49.371	98.74	80-120
35	Trichloroethene	50.000	47.354	94.71	80-120
36	1,2-Dichloropropan	50.000	46.540	93.08	80-120
37	Bromodichlorometha	50.000	47.286	94.57	77-121
39	Dibromomethane	50.000	48.113	96.23	80-120

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	50.000	53.338	106.68	10-191
41 4-Methyl-2-Pentano	250.00	244.76	97.91	67-120
42 Cis 1,3-dichloropr	50.000	50.376	100.75	74-120
44 Toluene	50.000	46.513	93.03	80-120
45 Trans 1,3-Dichloro	50.000	47.568	95.14	65-120
46 2-Hexanone	250.00	220.72	88.29	65-130
47 1,1,2-Trichloroeth	50.000	48.856	97.71	80-120
48 1,3-Dichloropropan	50.000	47.532	95.06	80-120
49 Tetrachloroethene	50.000	43.306	86.61	80-121
50 Chlorodibromometha	50.000	45.004	90.01	64-120
51 1,2-Dibromoethane	50.000	48.578	97.16	75-120
53 Chlorobenzene	50.000	46.017	92.03	80-120
55 1,1,1,2-Tetrachlor	50.000	40.388	80.78	69-121
54 Ethyl Benzene	50.000	49.694	99.39	80-127
56 m,p-xylene	100.00	106.11	106.11	80-125
57 o-Xylene	50.000	49.626	99.25	78-120
58 Styrene	50.000	53.070	106.14	80-123
59 Isopropyl Benzene	50.000	51.880	103.76	80-127
60 Bromoform	50.000	44.306	88.61	60-120
61 1,1,2,2-Tetrachlor	50.000	45.373	90.75	74-120
63 1,2,3-Trichloropro	50.000	45.540	91.08	72-121
65 Trans-1,4-Dichloro	50.000	54.042	108.08	65-126
66 N-Propyl Benzene	50.000	49.846	99.69	80-132
67 Bromobenzene	50.000	46.412	92.82	80-120
68 1,3,5-Trimethyl Be	50.000	54.690	109.38	80-125
69 2-Chloro Toluene	50.000	48.417	96.83	80-125
70 4-Chloro Toluene	50.000	55.772	111.54	80-127
71 T-Butyl Benzene	50.000	54.333	108.67	87-122
72 1,2,4-Trimethylben	50.000	55.355	110.71	80-126
73 S-Butyl Benzene	50.000	53.086	106.17	80-134
74 4-Isopropyl Toluen	50.000	58.887	117.77	80-131
75 1,3-Dichlorobenzen	50.000	54.332	108.66	80-120
77 1,4-Dichlorobenzen	50.000	53.785	107.57	80-120
78 N-Butyl Benzene	50.000	60.619	121.24	80-138
80 1,2-Dichlorobenzen	50.000	51.131	102.26	80-120
81 1,2-Dibromo 3-Chlo	50.000	46.726	93.45	59-120
82 1,2,4-Trichloroben	50.000	55.608	111.22	78-130
83 Hexachloro 1,3-But	50.000	51.198	102.40	76-129
84 Naphthalene	50.000	51.288	102.58	66-120
85 1,2,3-Trichloroben	50.000	51.408	102.82	73-123

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	50.465	100.93	30-160

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 31 d4-1,2-Dichloroeth	50.000	50.654	101.31	75-152
$ 43 d8-Toluene	50.000	51.458	102.92	82-115
$ 62 4-Bromofluorobenze	50.000	49.705	99.41	64-120
$ 79 d4-1,2-Dichloroben	50.000	49.713	99.43	80-120

Data File: /chem1/finn5.i/05AUG10.b/LCS0805A.d

Date : 05-AUG-2010 12:01

Client ID: LCS0805

Sample Info: LCS0805,5,5,0

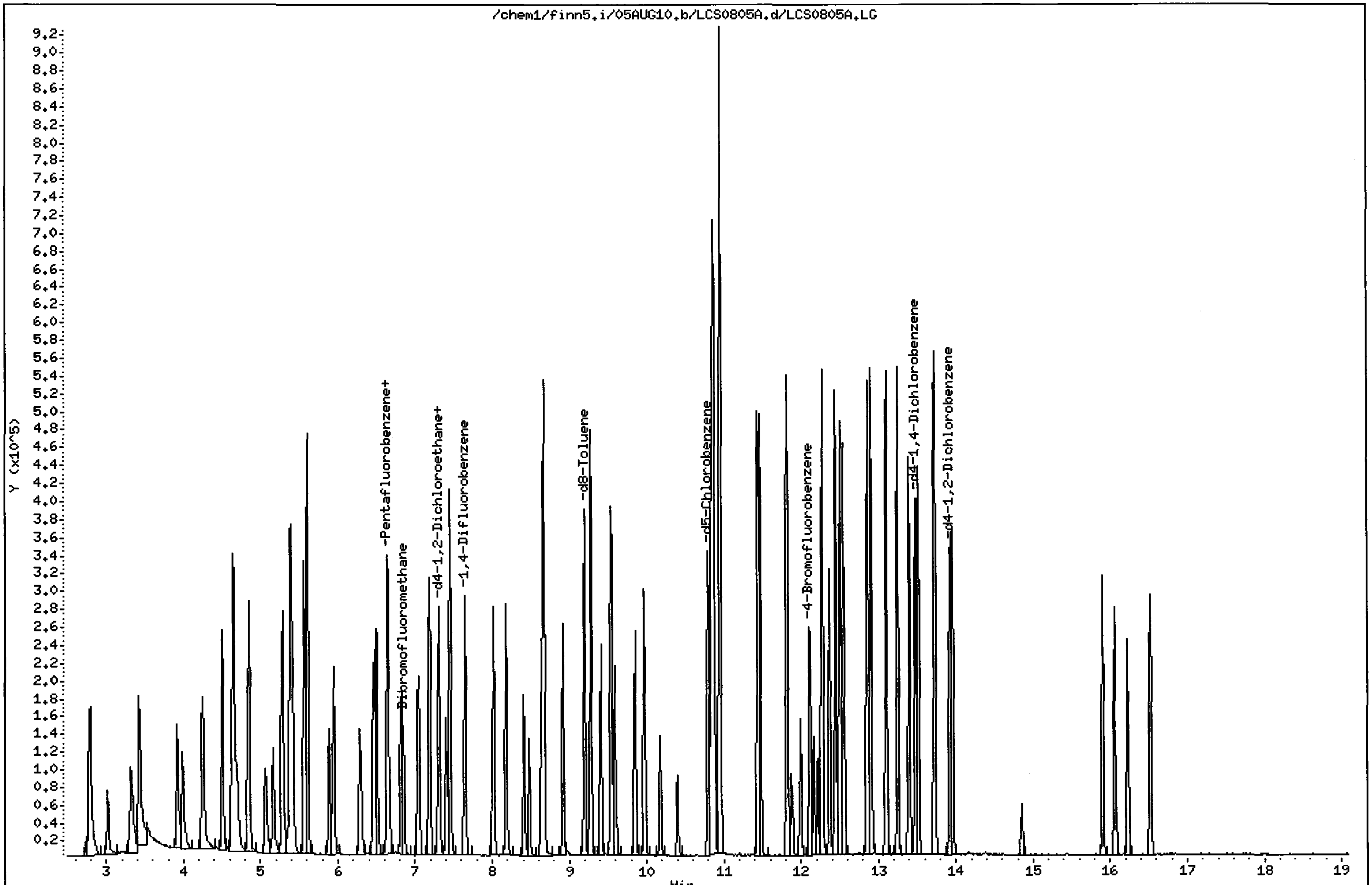
Column phase: Rtx502.2

Page 8

Instrument: finn5.i

Operator: PB

Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/05AUG10.b/MB0805.d
Lab Smp Id: MB0805 Client Smp ID: MB0805
Inj Date : 05-AUG-2010 12:28
Operator : PB Inst ID: finn5.i
Smp Info : MB0805,5,5,0
Misc Info : 10-18890
Comment :
Method : /chem1/finn5.i/05AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:03 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.683	4.673	(0.706)	2954	4.55273	4.553
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	Compound Not Detected.					
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.281	6.271	(0.947)	2231	3.05582	3.056
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.633	6.623	(1.000)	115941	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.844	6.834	(1.032)	76091	55.0646	55.065(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.306	7.296	(1.101)	87596	57.9320	57.932
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.638	7.628	(1.000)	175280	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	8.653	8.653	(1.133)	1411	3.04519	3.045(Q)
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	9.186	9.176	(1.203)	201843	52.4079	52.408
	44 Toluene	92	Compound Not Detected.					
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	10.794	10.784	(1.000)	152278	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	Compound Not Detected.					
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	12.110	12.100	(1.122)	84070	47.1729	47.173
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
66	N-Propyl Benzene	91	Compound Not Detected.					
67	Bromobenzene	156	Compound Not Detected.					
68	1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
73	S-Butyl Benzene	105	Compound Not Detected.					
74	4-Isopropyl Toluene	119	Compound Not Detected.					
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	13.467	13.457	(1.000)	76289	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.919	13.909	(1.034)	69479	50.0697	50.070
80	1,2-Dichlorobenzene	146	Compound Not Detected.					
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	Compound Not Detected.					
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: MB0805.d
Lab Smp Id: MB0805
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18890

Calibration Date: 05-AUG-2010
Calibration Time: 10:49
Client Smp ID: MB0805
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	115941	-11.57
34 1,4-Difluorobenze	191559	95780	383118	175280	-8.50
52 d5-Chlorobenzene	161199	80600	322398	152278	-5.53
76 d4-1,4-Dichlorobe	88279	44140	176558	76289	-13.58

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.63	0.15
34 1,4-Difluorobenze	7.63	7.13	8.13	7.64	0.13
52 d5-Chlorobenzene	10.78	10.28	11.28	10.79	0.09
76 d4-1,4-Dichlorobe	13.46	12.96	13.96	13.47	0.07

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: 05AUG10
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: MB0805 Client Smp ID: MB0805
Level: LOW Operator: PB
Data Type: MS DATA SampleType: BLANK
SpikeList File: all.spk Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18890

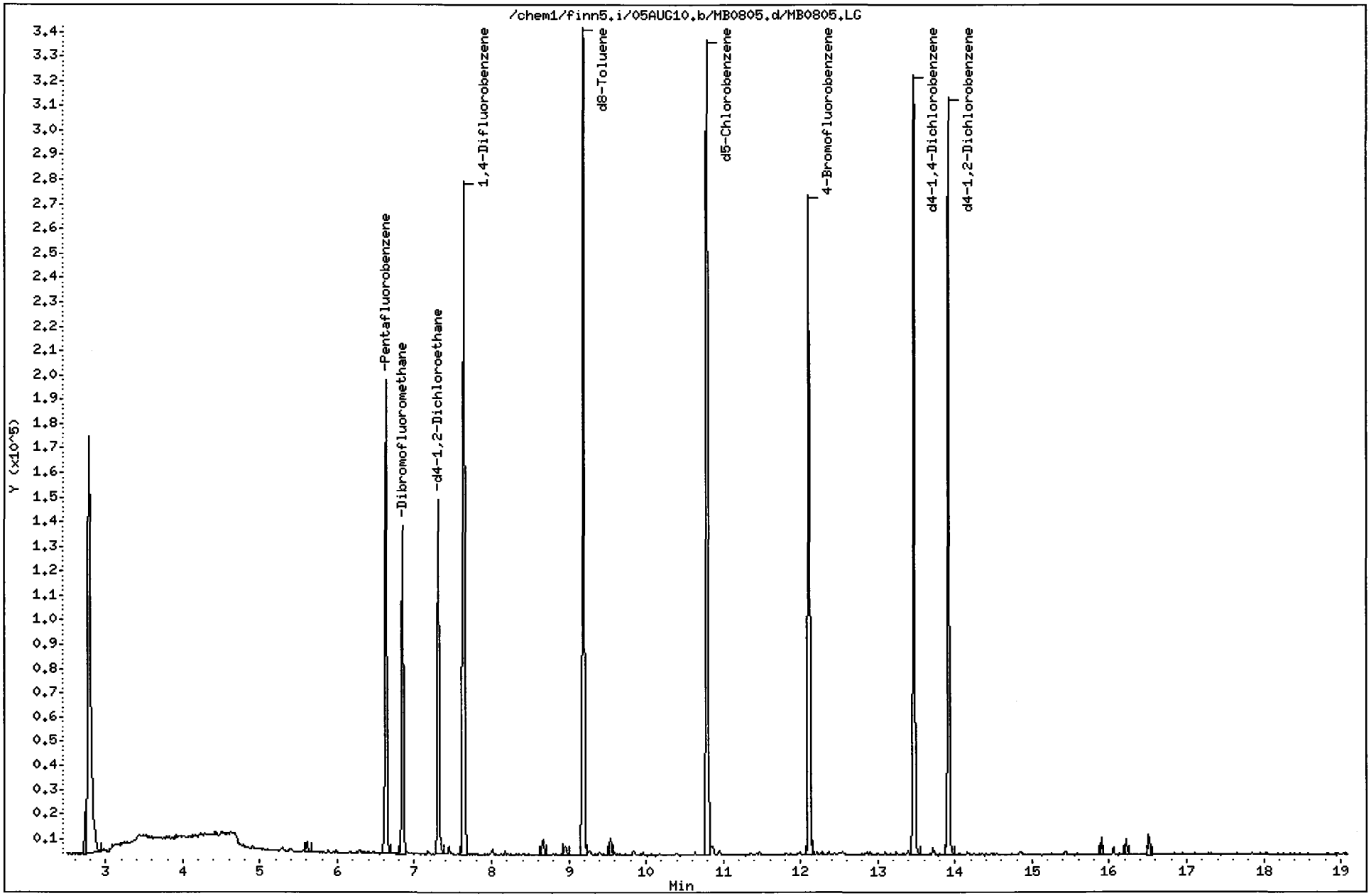
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	55.065	110.13	30-160
$ 31 d4-1,2-Dichloroeth	50.000	57.932	115.86	75-152
$ 43 d8-Toluene	50.000	52.408	104.82	82-115
$ 62 4-Bromofluorobenze	50.000	47.173	94.35	64-120
$ 79 d4-1,2-Dichloroben	50.000	50.070	100.14	80-120

Data File: /chem1/finn5.i/05AUG10.b/MB0805.d
Date : 05-AUG-2010 12:28
Client ID: MB0805
Sample Info: MB0805,5,5,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



RG79:00113

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/05AUG10.b/LCS0805B.d
Lab Smp Id: LCS0805 Client Smp ID: LCS0805
Inj Date : 05-AUG-2010 13:23
Operator : PB Inst ID: finn5.i
Smp Info : LCS0805,5,5,0
Misc Info : 10-18890
Comment :
Method : /chem1/finn5.i/05AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:03 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	5.00000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	2.995	3.005	(0.453)	81083	48.5760	48.576
2 Chloromethane	50	3.296	3.306	(0.498)	186438	41.5134	41.513
3 Vinyl Chloride	62	3.407	3.417	(0.515)	168284	47.3849	47.385
4 Bromomethane	94	3.899	3.909	(0.590)	127552	66.1341	66.134
5 Chloroethane	64	3.970	3.970	(0.600)	114870	49.5288	49.529
6 Trichlorofluoromethane	101	4.231	4.231	(0.640)	169912	49.5023	49.502
7 Acrolein	56	4.613	4.623	(0.698)	104587	244.270	244.27
8 112Trichloro122Trifluoroethane	101	4.633	4.633	(0.701)	133061	49.5166	49.517
9 Acetone	43	4.673	4.673	(0.707)	175722	243.924	243.92
10 1,1-Dichloroethene	96	4.834	4.834	(0.731)	122509	50.2401	50.240
11 Bromoethane	108	5.045	5.055	(0.763)	93041	51.5236	51.524
12 Iodomethane	142	5.146	5.156	(0.778)	161789	56.1161	56.116
13 Methylene Chloride	84	5.266	5.266	(0.796)	120686	43.9545	43.954
14 Acrylonitrile	53	5.347	5.347	(0.808)	35466	55.7603	55.760(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.387	5.387	(0.815)	164543	43.8794	43.879(Q)
	15 Carbon Disulfide	76	5.367	5.367	(0.812)	418562	55.3446	55.344
	17 Trans-1,2-Dichloroethene	96	5.548	5.548	(0.839)	105139	50.5938	50.594
	18 Vinyl Acetate	43	5.869	5.869	(0.888)	196228	53.9138	53.914
	19 1,1-Dichloroethane	63	5.929	5.929	(0.897)	189635	49.6038	49.604
	20 2-Butanone	43	6.271	6.271	(0.948)	212506	262.161	262.16
	21 2,2-Dichloropropane	77	6.452	6.452	(0.976)	100696	43.0452	43.045
	22 Cis-1,2-Dichloroethene	96	6.492	6.492	(0.982)	91999	50.2294	50.229
*	23 Pentafluorobenzene	168	6.613	6.623	(1.000)	128727	50.0000	
	24 Chloroform	83	6.633	6.633	(1.003)	148669	47.8755	47.875
	26 Bromochloromethane	128	6.794	6.804	(1.027)	43104	49.5678	49.568
$	25 Dibromofluoromethane	111	6.834	6.834	(1.033)	75961	49.5105	49.510(Q)
	27 1,1,1-Trichloroethane	97	7.025	7.025	(1.062)	106553	44.1166	44.117
	29 1,1-Dichloropropene	75	7.166	7.176	(0.939)	125689	49.8841	49.884
	30 Carbon Tetrachloride	117	7.286	7.286	(0.955)	97713	44.5968	44.597
$	31 d4-1,2-Dichloroethane	65	7.296	7.296	(1.103)	82786	49.3127	49.313
	32 1,2-Dichloroethane	62	7.387	7.387	(0.968)	104915	47.4317	47.432
	33 Benzene	78	7.437	7.437	(0.975)	309228	50.7537	50.754
*	34 1,4-Difluorobenzene	114	7.628	7.628	(1.000)	185543	50.0000	
	35 Trichloroethene	95	8.000	8.000	(1.049)	85033	47.6353	47.635
	36 1,2-Dichloropropane	63	8.161	8.161	(1.070)	89927	46.8225	46.822
	37 Bromodichloromethane	83	8.392	8.402	(1.100)	97502	47.4827	47.483
	39 Dibromomethane	93	8.462	8.472	(1.109)	46124	48.3790	48.379
	40 2-Chloroethyl Vinyl Ether	63	8.613	8.613	(1.129)	36510	54.2816	54.282(Q)
	41 4-Methyl-2-Pentanone	58	8.643	8.653	(1.133)	122044	248.824	248.82
	42 Cis 1,3-dichloropropene	75	8.904	8.904	(1.167)	113425	50.5929	50.593
$	43 d8-Toluene	98	9.176	9.176	(1.203)	205373	50.3749	50.375
	44 Toluene	92	9.256	9.266	(1.213)	170477	47.1595	47.160
	45 Trans 1,3-Dichloropropene	75	9.387	9.397	(1.231)	90386	47.9642	47.964
	46 2-Hexanone	43	9.527	9.527	(0.884)	291390	238.337	238.34
	47 1,1,2-Trichloroethane	97	9.568	9.578	(1.254)	54275	48.2280	48.228
	48 1,3-Dichloropropane	76	9.829	9.839	(0.912)	104486	49.6365	49.636
	49 Tetrachloroethene	166	9.949	9.949	(0.924)	78915	47.4919	47.492
	50 Chlorodibromomethane	129	10.161	10.161	(0.943)	69342	48.9672	48.967
	51 1,2-Dibromoethane	107	10.382	10.382	(1.361)	58630	48.6383	48.638
*	52 d5-Chlorobenzene	117	10.774	10.784	(1.000)	149563	50.0000	
	53 Chlorobenzene	112	10.824	10.824	(1.005)	170008	48.4631	48.463
	54 Ethyl Benzene	91	10.854	10.854	(1.007)	313110	52.7810	52.781
	55 1,1,1,2-Tetrachloroethane	131	10.844	10.844	(1.007)	57178	42.5876	42.588
	56 m,p-xylene	106	10.934	10.934	(1.015)	242805	111.983	111.98
	57 o-Xylene	106	11.427	11.427	(1.061)	117679	52.2213	52.221
	58 Styrene	104	11.457	11.457	(1.063)	195570	56.1291	56.129
	59 Isopropyl Benzene	105	11.799	11.809	(0.877)	311094	55.0010	55.001
	60 Bromoform	173	11.859	11.869	(0.881)	42974	47.2547	47.255
	61 1,1,2,2-Tetrachloroethane	83	11.980	11.980	(0.890)	77569	47.4696	47.470
$	62 4-Bromofluorobenzene	95	12.100	12.100	(1.123)	86856	49.6209	49.621
	63 1,2,3-Trichloropropane	110	12.150	12.150	(0.903)	15454	47.7379	47.738(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	65 Trans-1,4-Dichloro 2-Butene	53	12.201	12.201	(0.907)	28408	56.5633	56.563
	66 N-Propyl Benzene	91	12.261	12.261	(0.911)	389443	53.3365	53.336
	67 Bromobenzene	156	12.341	12.351	(0.917)	76662	48.6194	48.619
	68 1,3,5-Trimethyl Benzene	105	12.432	12.432	(0.924)	261993	57.0622	57.062
	69 2-Chloro Toluene	91	12.492	12.492	(0.928)	254010	52.9442	52.944
	70 4-Chloro Toluene	91	12.532	12.532	(0.931)	251067	54.5937	54.594
	71 T-Butyl Benzene	119	12.844	12.844	(0.954)	226769	57.7323	57.732
	72 1,2,4-Trimethylbenzene	105	12.884	12.894	(0.957)	263506	58.2992	58.299
	73 S-Butyl Benzene	105	13.085	13.085	(0.972)	355763	55.0535	55.054
	74 4-Isopropyl Toluene	119	13.236	13.236	(0.984)	268847	60.6323	60.632
	75 1,3-Dichlorobenzene	146	13.377	13.387	(0.994)	149510	55.5002	55.500
*	76 d4-1,4-Dichlorobenzene	152	13.457	13.457	(1.000)	84025	50.0000	
	77 1,4-Dichlorobenzene	146	13.497	13.497	(1.003)	149687	55.5289	55.529
	78 N-Butyl Benzene	91	13.708	13.708	(1.019)	303220	63.3275	63.327
$	79 d4-1,2-Dichlorobenzene	152	13.909	13.909	(1.034)	76192	49.8522	49.852
	80 1,2-Dichlorobenzene	146	13.939	13.939	(1.036)	133925	52.3098	52.310
	81 1,2-Dibromo 3-Chloropropane	75	14.844	14.844	(1.103)	13249	46.8567	46.857
	82 1,2,4-Trichlorobenzene	180	15.889	15.889	(1.181)	85610	54.9490	54.949
	83 Hexachloro 1,3-Butadiene	225	16.040	16.040	(1.192)	53560	51.0424	51.042
	84 Naphthalene	128	16.211	16.211	(1.205)	140195	49.6112	49.611
	85 1,2,3-Trichlorobenzene	180	16.502	16.502	(1.226)	75304	50.5557	50.556

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: LCS0805B.d
Lab Smp Id: LCS0805
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18890

Calibration Date: 05-AUG-2010
Calibration Time: 10:49
Client Smp ID: LCS0805
Level: LOW
Sample Type: SOIL

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	128727	-1.82
34 1,4-Difluorobenze	191559	95780	383118	185543	-3.14
52 d5-Chlorobenzene	161199	80600	322398	149563	-7.22
76 d4-1,4-Dichlorobe	88279	44140	176558	84025	-4.82

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.61	-0.15
34 1,4-Difluorobenze	7.63	7.13	8.13	7.63	0.00
52 d5-Chlorobenzene	10.78	10.28	11.28	10.77	-0.09
76 d4-1,4-Dichlorobe	13.46	12.96	13.96	13.46	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: 05AUG10
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: LCS0805 Client Smp ID: LCS0805
Level: LOW Operator: PB
Data Type: MS DATA SampleType: LCSD
SpikeList File: all.spk Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18890

SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
1	Dichlorodifluorome	50.000	48.576	97.15	53-148
2	Chloromethane	50.000	41.513	83.03	64-125
3	Vinyl Chloride	50.000	47.385	94.77	63-137
4	Bromomethane	50.000	66.134	132.27	57-136
5	Chloroethane	50.000	49.529	99.06	64-131
6	Trichlorofluoromet	50.000	49.502	99.00	69-132
7	Acrolein	250.00	244.27	97.71	54-137
8	112Trichloro122Tri	50.000	49.517	99.03	74-130
9	Acetone	250.00	243.92	97.57	60-131
10	1,1-Dichloroethene	50.000	50.240	100.48	75-126
11	Bromoethane	50.000	51.524	103.05	76-126
12	Iodomethane	50.000	56.116	112.23	65-139
13	Methylene Chloride	50.000	43.954	87.91	70-123
15	Carbon Disulfide	50.000	55.344	110.69	71-129
14	Acrylonitrile	50.000	55.760	111.52	67-125
16	Methyl tert-Butyl	50.000	43.879	87.76	70-120
17	Trans-1,2-Dichloro	50.000	50.594	101.19	80-120
18	Vinyl Acetate	50.000	53.914	107.83	60-136
19	1,1-Dichloroethane	50.000	49.604	99.21	80-120
20	2-Butanone	250.00	262.16	104.86	70-120
21	2,2-Dichloropropan	50.000	43.045	86.09	74-123
22	Cis-1,2-Dichloroet	50.000	50.229	100.46	80-120
24	Chloroform	50.000	47.875	95.75	80-120
26	Bromochloromethane	50.000	49.568	99.14	80-120
27	1,1,1-Trichloroeth	50.000	44.117	88.23	77-121
29	1,1-Dichloropropen	50.000	49.884	99.77	80-120
30	Carbon Tetrachlori	50.000	44.597	89.19	77-122
32	1,2-Dichloroethane	50.000	47.432	94.86	76-120
33	Benzene	50.000	50.754	101.51	80-120
35	Trichloroethene	50.000	47.635	95.27	80-120
36	1,2-Dichloropropan	50.000	46.822	93.64	80-120
37	Bromodichlorometha	50.000	47.483	94.97	77-121
39	Dibromomethane	50.000	48.379	96.76	80-120

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	50.000	54.282	108.56	10-191
41 4-Methyl-2-Pentano	250.00	248.82	99.53	67-120
42 Cis 1,3-dichloropr	50.000	50.593	101.19	74-120
44 Toluene	50.000	47.160	94.32	80-120
45 Trans 1,3-Dichloro	50.000	47.964	95.93	65-120
46 2-Hexanone	250.00	238.34	95.33	65-130
47 1,1,2-Trichloroeth	50.000	48.228	96.46	80-120
48 1,3-Dichloropropan	50.000	49.636	99.27	80-120
49 Tetrachloroethene	50.000	47.492	94.98	80-121
50 Chlorodibromometha	50.000	48.967	97.93	64-120
51 1,2-Dibromoethane	50.000	48.638	97.28	75-120
53 Chlorobenzene	50.000	48.463	96.93	80-120
55 1,1,1,2-Tetrachlor	50.000	42.588	85.18	69-121
54 Ethyl Benzene	50.000	52.781	105.56	80-127
56 m,p-xylene	100.00	111.98	111.98	80-125
57 o-Xylene	50.000	52.221	104.44	78-120
58 Styrene	50.000	56.129	112.26	80-123
59 Isopropyl Benzene	50.000	55.001	110.00	80-127
60 Bromoform	50.000	47.255	94.51	60-120
61 1,1,2,2-Tetrachlor	50.000	47.470	94.94	74-120
63 1,2,3-Trichloropro	50.000	47.738	95.48	72-121
65 Trans-1,4-Dichloro	50.000	56.563	113.13	65-126
66 N-Propyl Benzene	50.000	53.336	106.67	80-132
67 Bromobenzene	50.000	48.619	97.24	80-120
68 1,3,5-Trimethyl Be	50.000	57.062	114.12	80-125
69 2-Chloro Toluene	50.000	52.944	105.89	80-125
70 4-Chloro Toluene	50.000	54.594	109.19	80-127
71 T-Butyl Benzene	50.000	57.732	115.46	87-122
72 1,2,4-Trimethylben	50.000	58.299	116.60	80-126
73 S-Butyl Benzene	50.000	55.054	110.11	80-134
74 4-Isopropyl Toluen	50.000	60.632	121.26	80-131
75 1,3-Dichlorobenzen	50.000	55.500	111.00	80-120
77 1,4-Dichlorobenzen	50.000	55.529	111.06	80-120
78 N-Butyl Benzene	50.000	63.327	126.65	80-138
80 1,2-Dichlorobenzen	50.000	52.310	104.62	80-120
81 1,2-Dibromo 3-Chlo	50.000	46.857	93.71	59-120
82 1,2,4-Trichloroben	50.000	54.949	109.90	78-130
83 Hexachloro 1,3-But	50.000	51.042	102.08	76-129
84 Naphthalene	50.000	49.611	99.22	66-120
85 1,2,3-Trichloroben	50.000	50.556	101.11	73-123

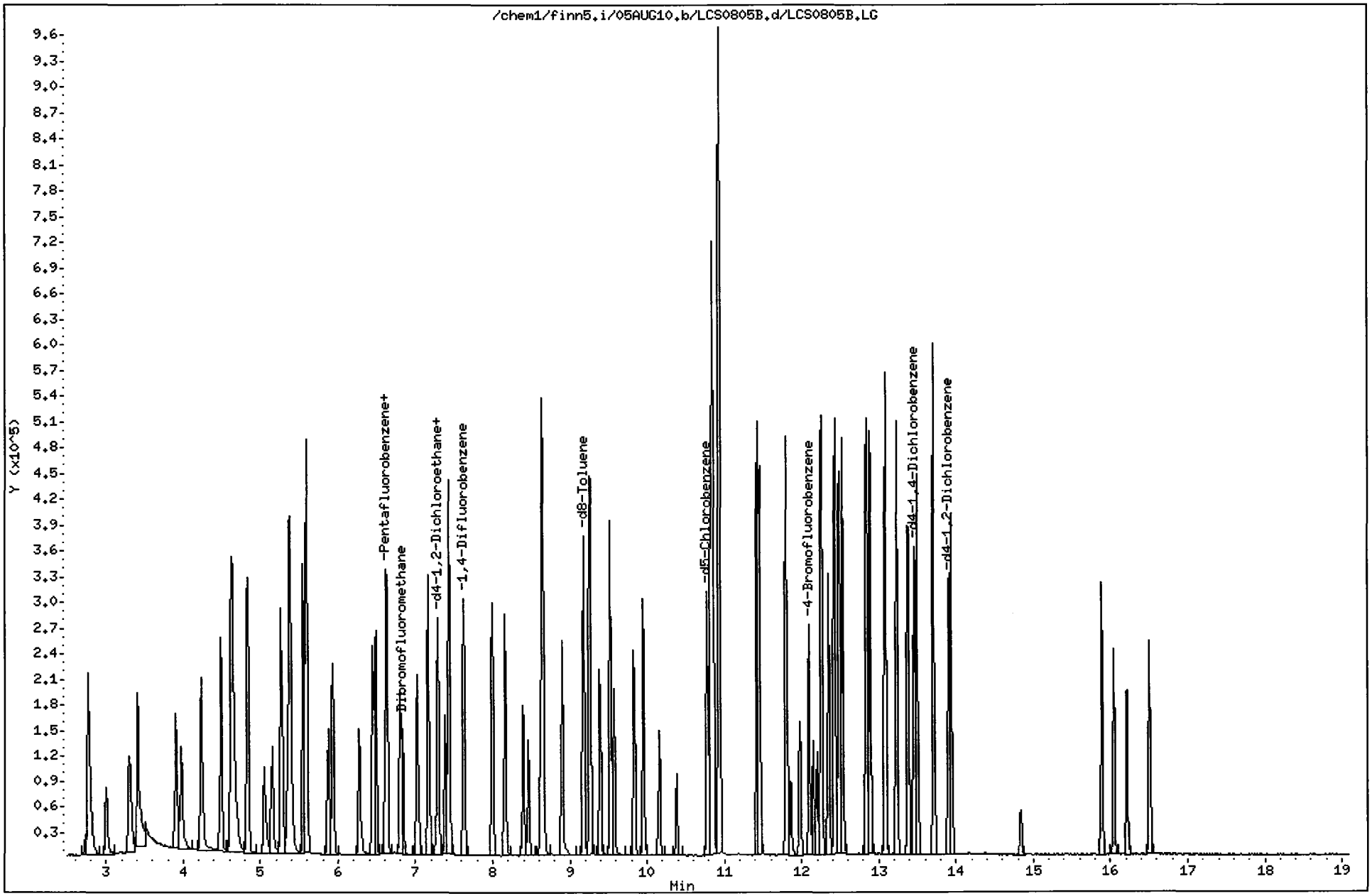
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	49.510	99.02	30-160

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 31 d4-1,2-Dichloroeth	50.000	49.313	98.63	75-152
$ 43 d8-Toluene	50.000	50.375	100.75	82-115
$ 62 4-Bromofluorobenze	50.000	49.621	99.24	64-120
$ 79 d4-1,2-Dichloroben	50.000	49.852	99.70	80-120

Data File: /chem1/finn5.i/05AUG10.b/LCS0805B.d
Date : 05-AUG-2010 13:23
Client ID: LCS0805
Sample Info: LCS0805,5,5,0

Instrument: finn5.i
Operator: PB
Column phase: Rtx502.2
Column diameter: 0.18

RG79:00421



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/05AUG10.b/RG79A.d
Lab Smp Id: RG79A Client Smp ID: PSB11-0-0.5-073010
Inj Date : 05-AUG-2010 14:37
Operator : PB Inst ID: finn5.i
Smp Info : RG79A,5,10.28,0
Misc Info : 10-18505
Comment :
Method : /chem1/finn5.i/05AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:03 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	10.28000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.683	4.673	(0.707)	91548	136.830	66.551
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.276	5.266	(0.797)	10282	4.03205	1.961
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)	
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.						
	15 Carbon Disulfide	76	Compound Not Detected.						
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.						
	18 Vinyl Acetate	43	Compound Not Detected.						
	19 1,1-Dichloroethane	63	Compound Not Detected.						
	20 2-Butanone	43	6.281	6.271	(0.948)	5981	7.94460	3.864	
	21 2,2-Dichloropropane	77	Compound Not Detected.						
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.						
*	23 Pentafluorobenzene	168	6.623	6.623	(1.000)	119555	50.0000		
	24 Chloroform	83	Compound Not Detected.						
	26 Bromochloromethane	128	Compound Not Detected.						
$	25 Dibromofluoromethane	111	6.844	6.834	(1.033)	81521	57.2108	27.826	(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.						
	29 1,1-Dichloropropene	75	Compound Not Detected.						
	30 Carbon Tetrachloride	117	Compound Not Detected.						
$	31 d4-1,2-Dichloroethane	65	7.306	7.296	(1.103)	99399	63.7508	31.007	
	32 1,2-Dichloroethane	62	Compound Not Detected.						
	33 Benzene	78	7.447	7.437	(0.975)	3095	0.54665	0.2659	
*	34 1,4-Difluorobenzene	114	7.638	7.628	(1.000)	172419	50.0000		
	35 Trichloroethene	95	Compound Not Detected.						
	36 1,2-Dichloropropane	63	Compound Not Detected.						
	37 Bromodichloromethane	83	Compound Not Detected.						
	39 Dibromomethane	93	Compound Not Detected.						
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.						
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.						
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.						
$	43 d8-Toluene	98	9.186	9.176	(1.203)	189681	50.0673	24.352	
	44 Toluene	92	9.266	9.266	(1.213)	1724	0.51322	0.2496	
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.						
	46 2-Hexanone	43	Compound Not Detected.						
	47 1,1,2-Trichloroethane	97	Compound Not Detected.						
	48 1,3-Dichloropropane	76	Compound Not Detected.						
	49 Tetrachloroethene	166	Compound Not Detected.						
	50 Chlorodibromomethane	129	Compound Not Detected.						
	51 1,2-Dibromoethane	107	Compound Not Detected.						
*	52 d5-Chlorobenzene	117	10.784	10.784	(1.000)	125003	50.0000		
	53 Chlorobenzene	112	Compound Not Detected.						
	54 Ethyl Benzene	91	Compound Not Detected.						
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	56 m,p-xylene	106	Compound Not Detected.						
	57 o-Xylene	106	Compound Not Detected.						
	58 Styrene	104	Compound Not Detected.						
	59 Isopropyl Benzene	105	Compound Not Detected.						
	60 Bromoform	173	Compound Not Detected.						
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
$	62 4-Bromofluorobenzene	95	12.110	12.100	(1.123)	56442	38.5808	18.765	
	63 1,2,3-Trichloropropane	110	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
66	N-Propyl Benzene	91	Compound Not Detected.					
67	Bromobenzene	156	Compound Not Detected.					
68	1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
73	S-Butyl Benzene	105	Compound Not Detected.					
74	4-Isopropyl Toluene	119	Compound Not Detected.					
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	13.467	13.457	(1.000)	39920	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.909	13.909	(1.033)	36763	50.6295	24.625
80	1,2-Dichlorobenzene	146	Compound Not Detected.					
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	Compound Not Detected.					
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG79A.d
Lab Smp Id: RG79A
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18505

Calibration Date: 05-AUG-2010
Calibration Time: 10:49
Client Smp ID: PSB11-0-0.5-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF	
23 Pentafluorobenzen	131115	65558	262230	119555	-8.82	
34 1,4-Difluorobenze	191559	95780	383118	172419	-9.99	
52 d5-Chlorobenzene	161199	80600	322398	125003	-22.45	
76 d4-1,4-Dichlorobe	88279	44140	176558	39920	-54.78	<- ok

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.62	0.00
34 1,4-Difluorobenze	7.63	7.13	8.13	7.64	0.13
52 d5-Chlorobenzene	10.78	10.28	11.28	10.78	0.00
76 d4-1,4-Dichlorobe	13.46	12.96	13.96	13.47	0.07

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: Floyd/Snider
Sample Matrix: SOLID
Lab Smp Id: RG79A
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18505

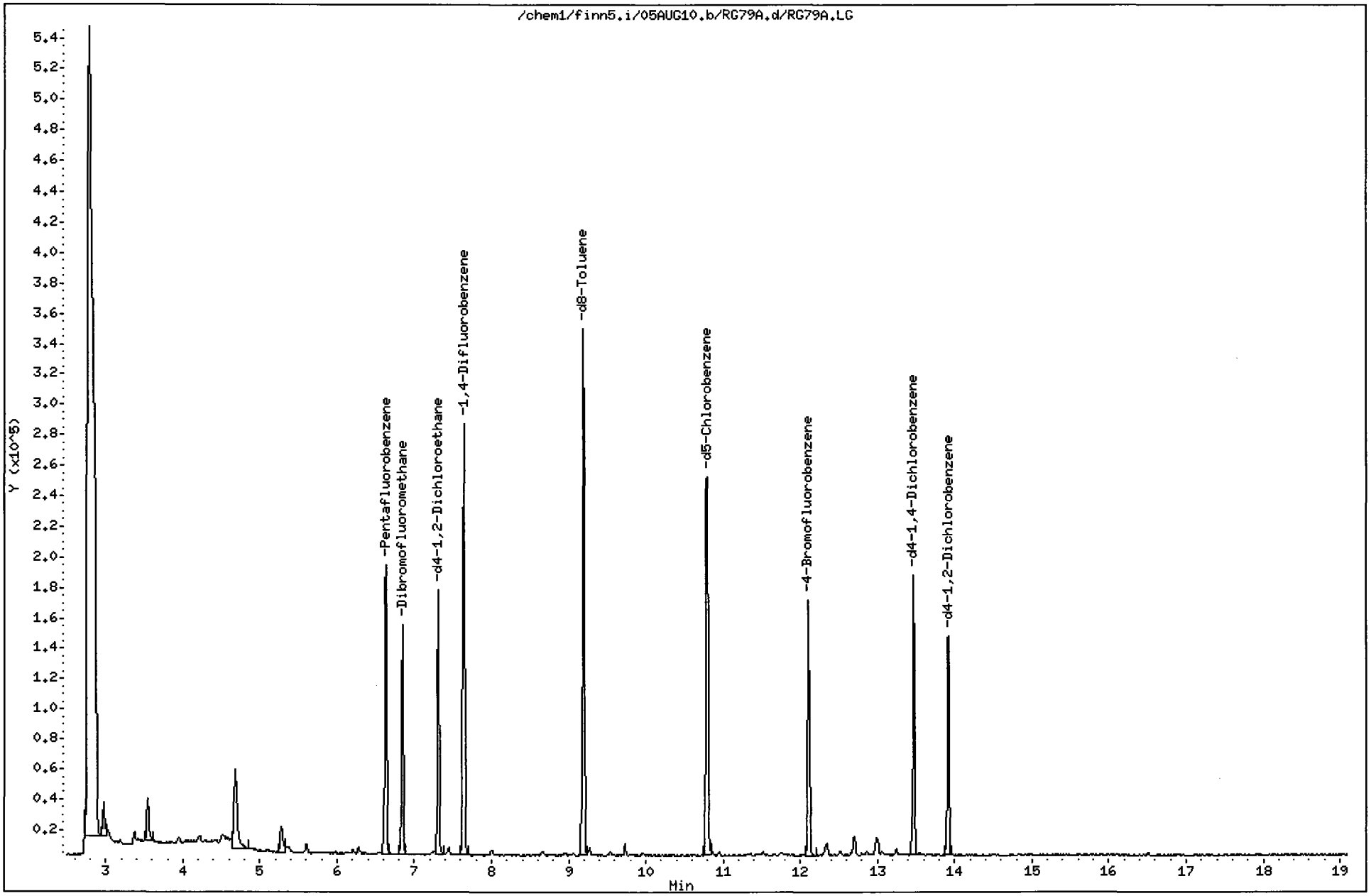
Client SDG: RG79
Fraction: VOA
Client Smp ID: PSB11-0-0.5-073010
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	57.211	114.42	30-160
$ 31 d4-1,2-Dichloroeth	50.000	63.751	127.50	75-152
$ 43 d8-Toluene	50.000	50.067	100.13	82-115
$ 62 4-Bromofluorobenze	50.000	38.581	77.16	64-120
$ 79 d4-1,2-Dichloroben	50.000	50.630	101.26	80-120

Data File: /chem1/finn5.i/05AUG10.b/RG79A.d
Date : 05-AUG-2010 14:37
Client ID: PSB11-0-0.5-073010
Sample Info: RG79A,5,10.28,0

Instrument: finn5.i
Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/05AUG10.b/RG79B.d
Lab Smp Id: RG79B
Client Smp ID: PSB11-1.5-2-073010
Inj Date : 05-AUG-2010 15:02
Operator : PB
Inst ID: finn5.i
Smp Info : RG79B,5,9.51,0
Misc Info : 10-18506
Comment :
Method : /chem1/finn5.i/05AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:05 patrickb
Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18
Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	9.51000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.683	4.673	(0.706)	166623	239.062	125.69
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.276	5.266	(0.795)	3756	1.41390	0.7434
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	5.387	5.367	(0.812)	11510	1.57303	0.8270
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.281	6.271	(0.947)	15269	19.4694	10.236
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.633	6.623	(1.000)	124544	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.844	6.834	(1.032)	88832	59.8443	31.464 (Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.306	7.296	(1.101)	105157	64.7421	34.039
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	7.447	7.437	(0.975)	4588	0.73796	0.3880
*	34 1,4-Difluorobenzene	114	7.638	7.628	(1.000)	189331	50.0000	
	35 Trichloroethene	95	8.010	8.000	(1.049)	2475	1.35875	0.7144
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	9.186	9.176	(1.203)	196827	47.3128	24.875
	44 Toluene	92	9.276	9.266	(1.214)	8041	2.17990	1.146
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	9.960	9.949	(0.923)	2259	1.41379	0.7433
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	10.794	10.784	(1.000)	143819	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	10.864	10.854	(1.007)	6145	1.07723	0.5664
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	10.944	10.934	(1.014)	6330	3.03602	1.596
	57 o-Xylene	106	11.437	11.427	(1.060)	5025	2.31895	1.219
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	11.819	11.809	(0.878)	11853	1.28012	0.6730
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	12.110	12.100	(1.122)	74984	44.5493	23.422 (Q)
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
66	N-Propyl Benzene	91	12.271	12.261	(0.911)	47390	3.96471	2.084
67	Bromobenzene	156	Compound Not Detected.					
68	1,3,5-Trimethyl Benzene	105	12.442	12.432	(0.924)	194442	25.8698	13.601
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	12.854	12.844	(0.954)	10965	1.70525	0.8966 (Q)
72	1,2,4-Trimethylbenzene	105	12.904	12.894	(0.958)	575112	77.7265	40.866
73	S-Butyl Benzene	105	13.095	13.085	(0.972)	214928	20.3171	10.682
74	4-Isopropyl Toluene	119	13.246	13.236	(0.984)	303684	41.8375	21.996
75	1,3-Dichlorobenzene	146	13.397	13.387	(0.995)	1565	0.35488	0.1866 (Q)
* 76	d4-1,4-Dichlorobenzene	152	13.467	13.457	(1.000)	137551	50.0000	(Q)
77	1,4-Dichlorobenzene	146	13.507	13.497	(1.003)	9388	2.12742	1.118
78	N-Butyl Benzene	91	13.718	13.708	(1.019)	348476	44.4582	23.374 (Q)
$ 79	d4-1,2-Dichlorobenzene	152	13.919	13.909	(1.034)	102536	40.9823	21.547
80	1,2-Dichlorobenzene	146	13.949	13.939	(1.036)	5734	1.36812	0.7193 (Q)
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	16.221	16.211	(1.204)	258121	55.7976	29.336
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG79B.d
Lab Smp Id: RG79B
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18506

Calibration Date: 05-AUG-2010
Calibration Time: 10:49
Client Smp ID: PSB11-1.5-2-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	124544	-5.01
34 1,4-Difluorobenze	191559	95780	383118	189331	-1.16
52 d5-Chlorobenzene	161199	80600	322398	143819	-10.78
76 d4-1,4-Dichlorobe	88279	44140	176558	137551	55.81

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.63	0.15
34 1,4-Difluorobenze	7.63	7.13	8.13	7.64	0.13
52 d5-Chlorobenzene	10.78	10.28	11.28	10.79	0.09
76 d4-1,4-Dichlorobe	13.46	12.96	13.96	13.47	0.07

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: Floyd/Snider
Sample Matrix: SOLID
Lab Smp Id: RG79B
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18506

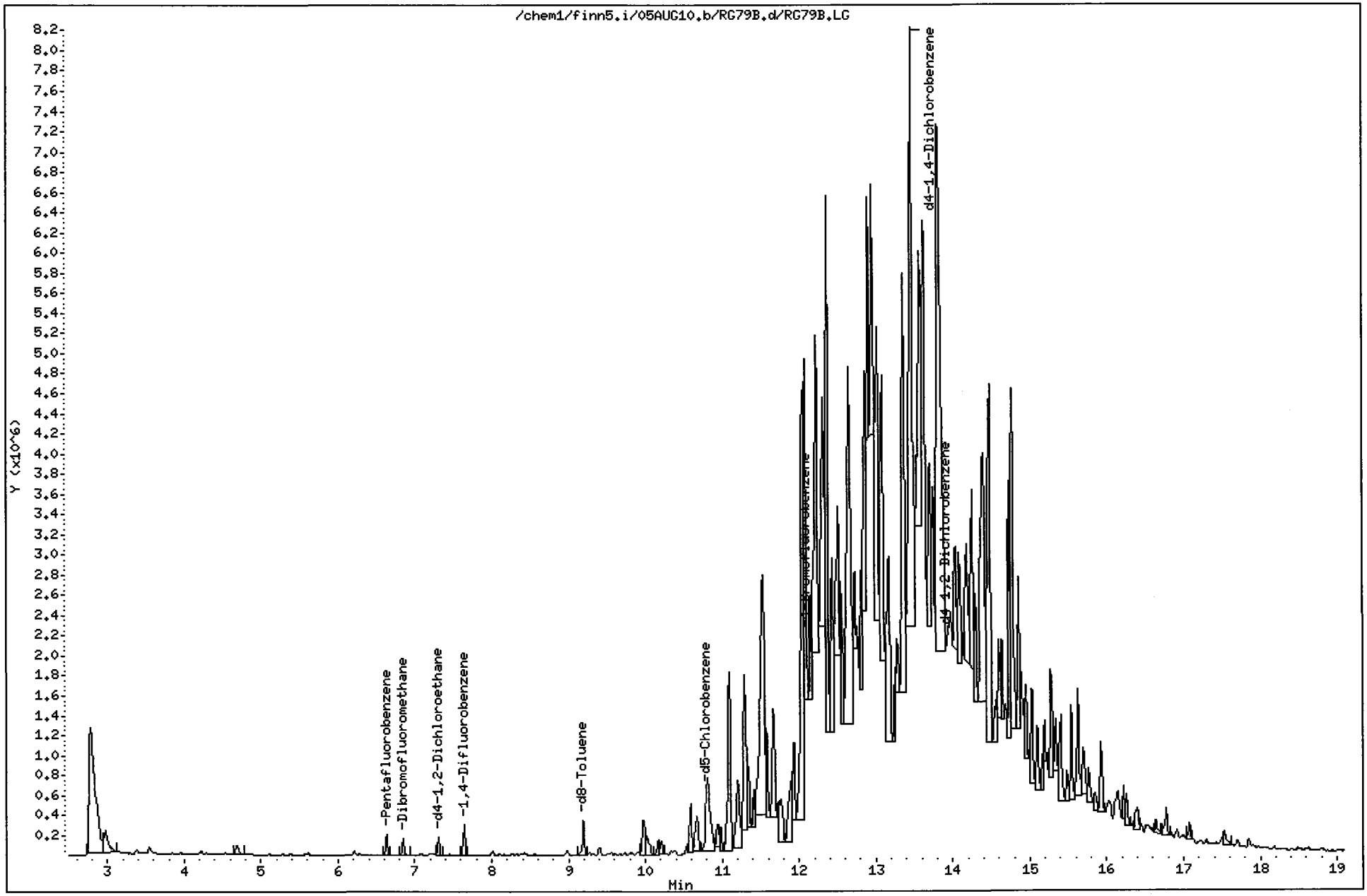
Client SDG: RG79
Fraction: VOA
Client Smp ID: PSB11-1.5-2-073010
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	59.844	119.69	30-160
$ 31 d4-1,2-Dichloroeth	50.000	64.742	129.48	75-152
$ 43 d8-Toluene	50.000	47.313	94.63	82-115
$ 62 4-Bromofluorobenze	50.000	44.549	89.10	64-120
$ 79 d4-1,2-Dichloroben	50.000	40.982	81.96	80-120

Data File: /chem1/finn5.i/05AUG10.b/RG79B.d
Date : 05-AUG-2010 15:02
Client ID: PSB11-1.5-2-073010
Sample Info: RG79B,5,9.51,0

Instrument: finn5.i
Operator: PB
Column phase: Rtx502.2
Column diameter: 0.18

RG79:00439



Data File: /chem1/finn5.i/05AUG10.b/RG79B.d

Date : 05-AUG-2010 15:02

Client ID: PSB11-1.5-2-073010

Instrument: finn5.i

Sample Info: RG79B,5,9.51,0

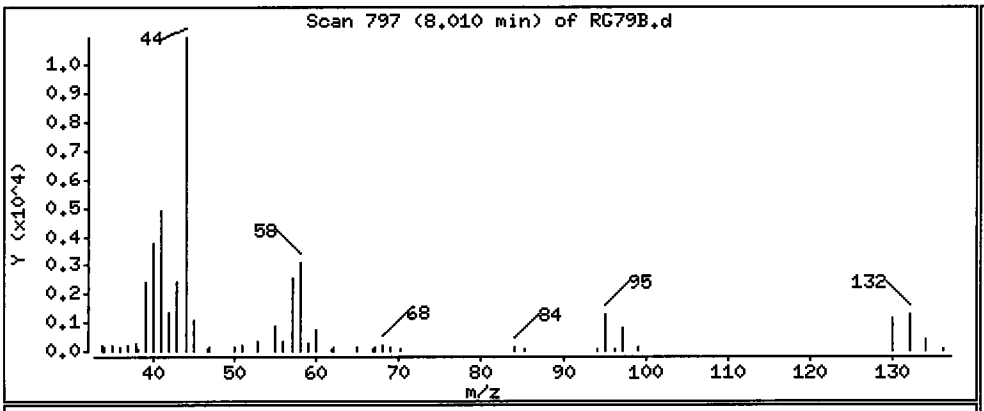
Operator: PB

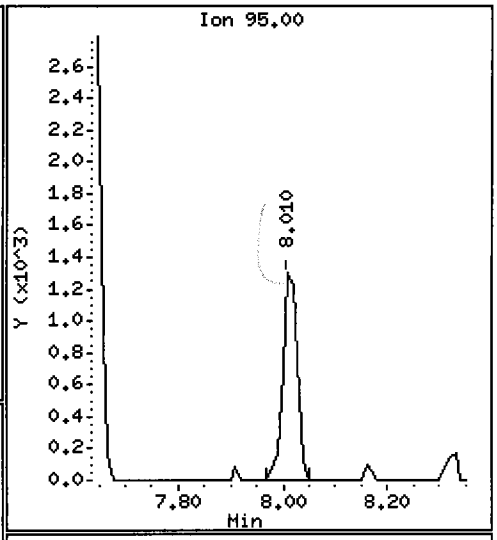
Column phase: Rtx502.2

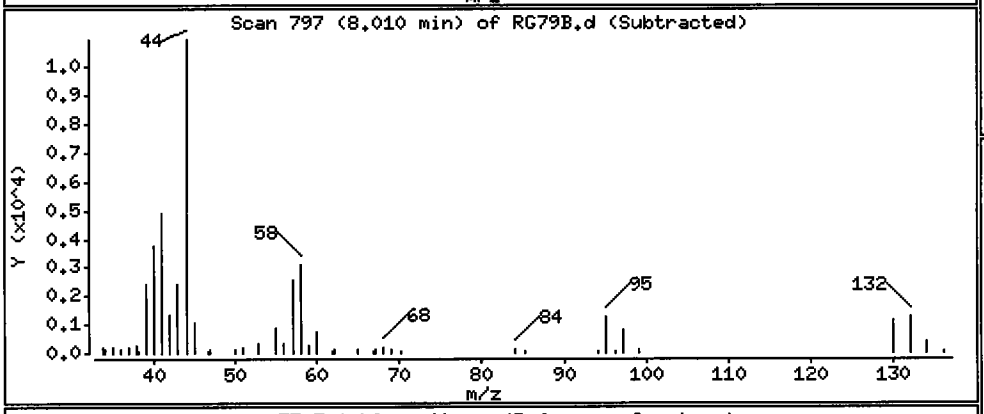
Column diameter: 0.18

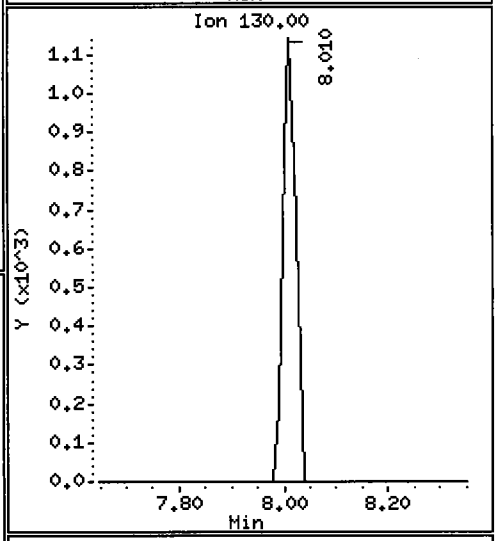
35 Trichloroethene

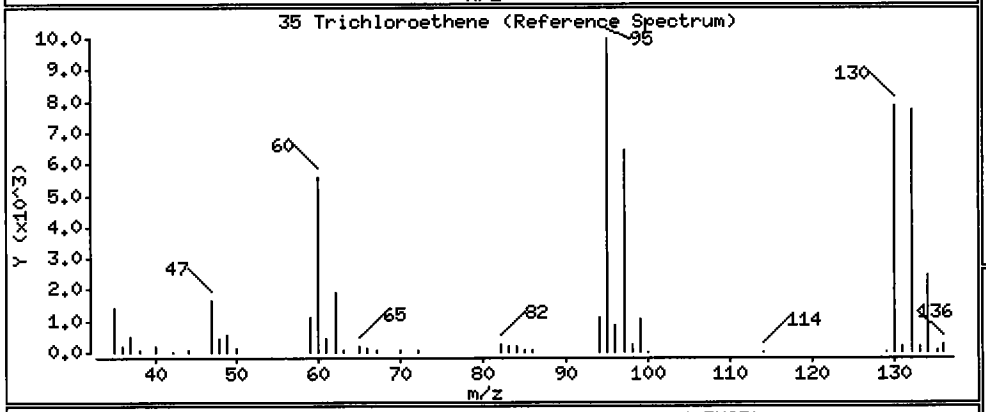
Concentration: 0.7144 ug/Kg

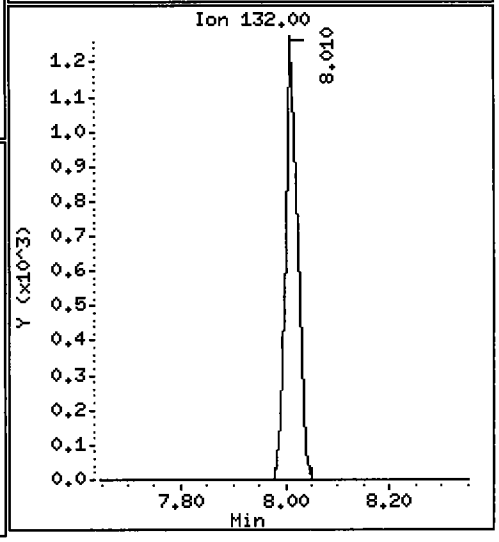


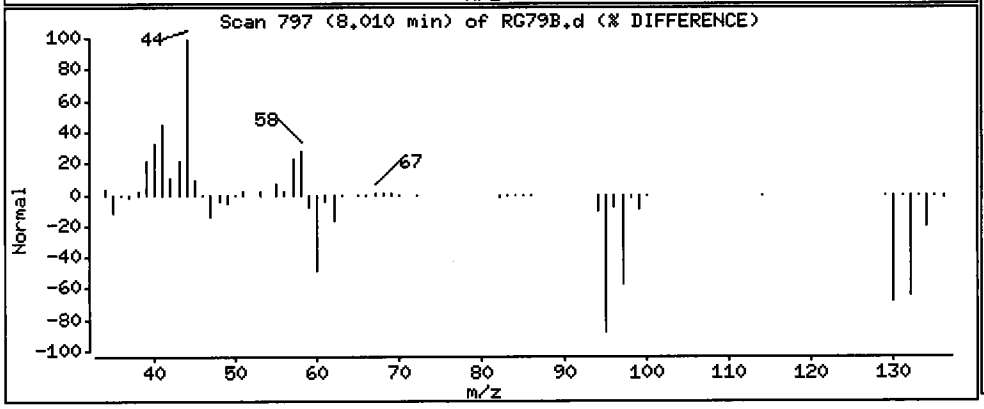












Data File: /chem1/finn5.i/05AUG10.b/RG79B.d

Date : 05-AUG-2010 15:02

Client ID: PSB11-1.5-2-073010

Instrument: finn5.i

Sample Info: RG79B,5,9.51,0

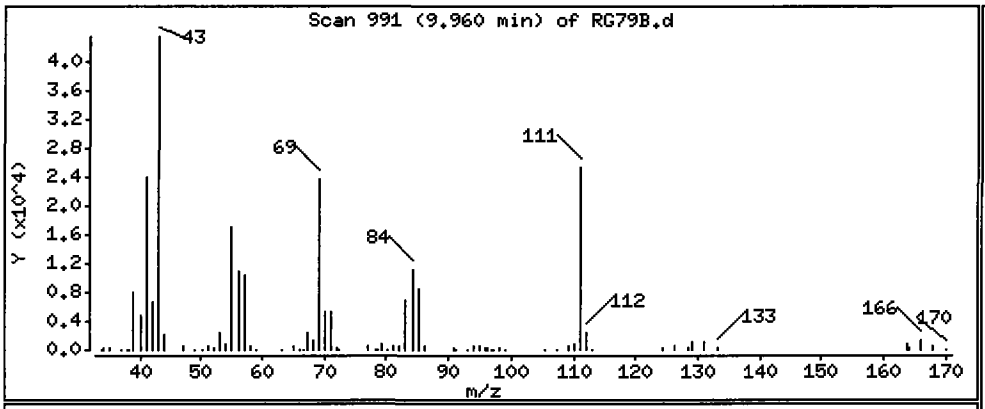
Operator: PB

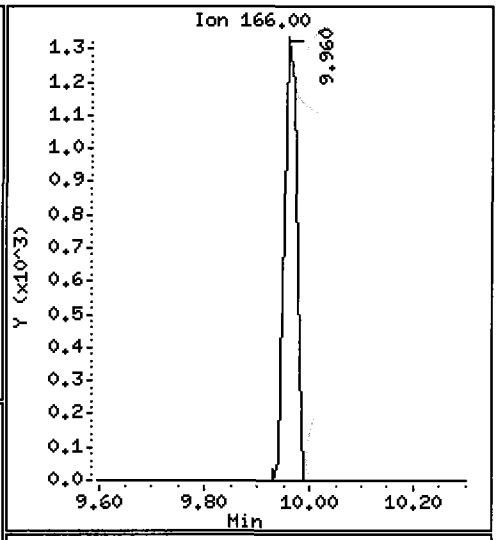
Column phase: Rtx502.2

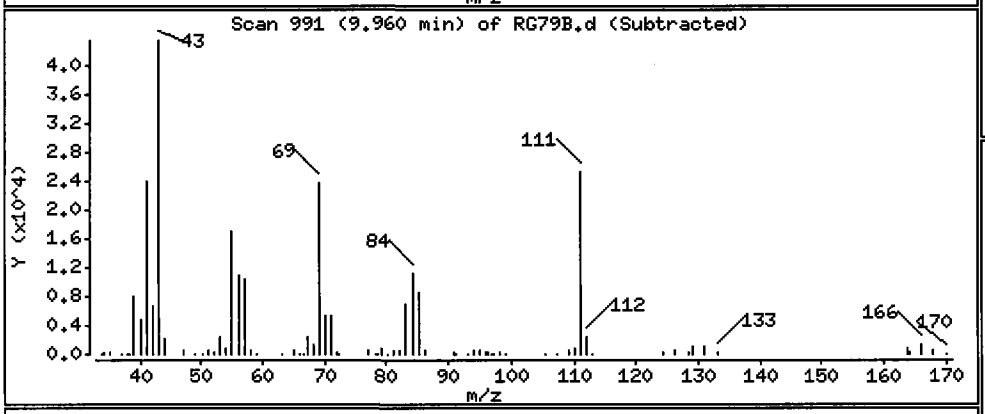
Column diameter: 0.18

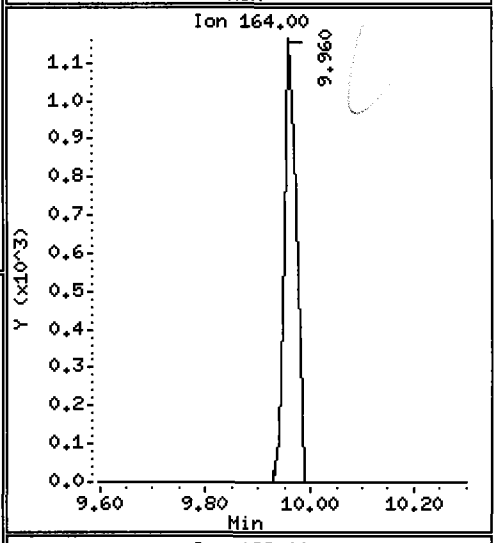
49 Tetrachloroethene

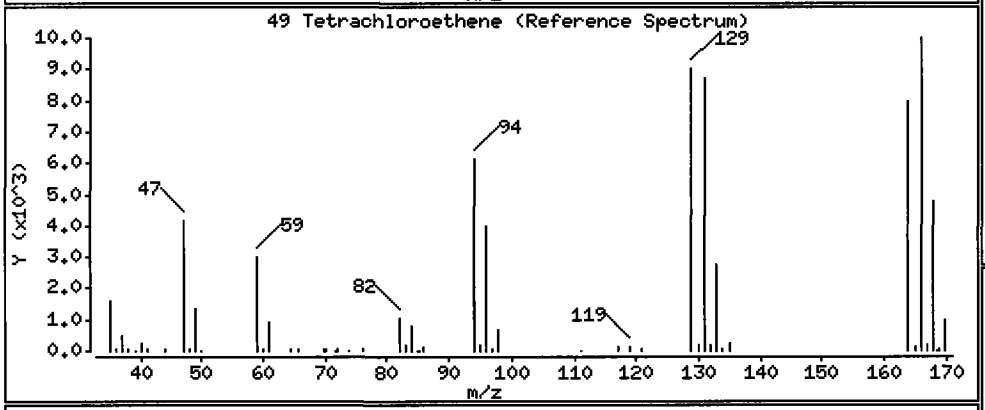
Concentration: 0.7433 ug/Kg

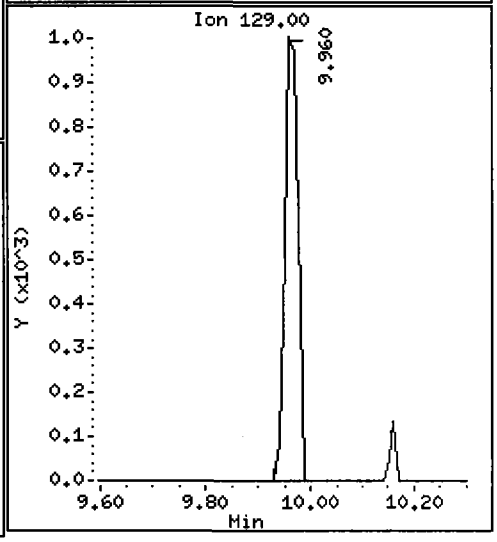


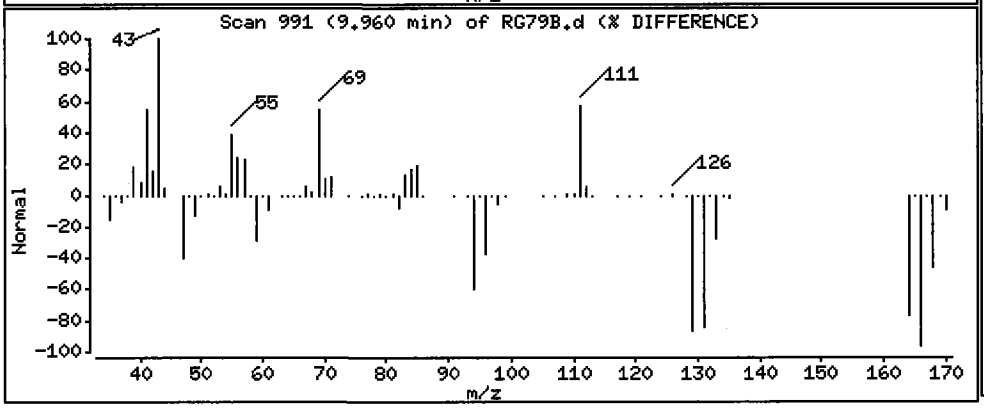












Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/05AUG10.b/RG79C.d
Lab Smp Id: RG79C Client Smp ID: PSB11-2-4-073010
Inj Date : 05-AUG-2010 15:29
Operator : PB Inst ID: finn5.i
Smp Info : RG79C,5,9.41,0
Misc Info : 10-18507
Comment :
Method : /chem1/finn5.i/05AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:05 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	9.41000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	3.909	3.909	(0.590)	5113	1.85837	0.9874
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.673	4.673	(0.706)	154328	150.173	79.794
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	5.156	5.156	(0.778)	2369	0.57600	0.3060
13 Methylene Chloride	84	5.276	5.266	(0.797)	8095	2.06672	1.098
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	5.377	5.367	(0.812)	18260	1.69252	0.8993
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.281	6.271	(0.948)	20599	17.8140	9.465
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.623	6.623	(1.000)	183633	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.844	6.834	(1.033)	116548	53.2513	28.295(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.306	7.296	(1.103)	125092	52.2336	27.754
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	7.437	7.437	(0.974)	4686	0.55434	0.2945
*	34 1,4-Difluorobenzene	114	7.638	7.628	(1.000)	257432	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	9.186	9.176	(1.203)	253397	44.7976	23.803
	44 Toluene	92	9.266	9.266	(1.213)	3258	0.64959	0.3452
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	9.960	9.949	(0.924)	903	0.47102	0.2503
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	10.784	10.784	(1.000)	172556	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	10.934	10.934	(1.014)	1619	0.64719	0.3439(Q)
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	12.100	12.100	(1.122)	91803	45.4586	24.154
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
66	N-Propyl Benzene	91	12.261	12.261	(0.911)	3079	0.56989	0.3028
67	Bromobenzene	156	Compound Not Detected.					
68	1,3,5-Trimethyl Benzene	105	12.432	12.432	(0.924)	8996	2.64794	1.407
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	12.894	12.894	(0.958)	28956	8.65785	4.600
73	S-Butyl Benzene	105	13.085	13.085	(0.972)	8037	1.68081	0.8931
74	4-Isopropyl Toluene	119	13.236	13.236	(0.984)	11291	3.44137	1.828
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	13.457	13.457	(1.000)	62174	50.0000	
77	1,4-Dichlorobenzene	146	13.497	13.497	(1.003)	1518	0.76104	0.4044(Q)
78	N-Butyl Benzene	91	13.708	13.708	(1.019)	13777	3.88856	2.066(Q)
$ 79	d4-1,2-Dichlorobenzene	152	13.909	13.909	(1.034)	54999	48.6328	25.841
80	1,2-Dichlorobenzene	146	13.939	13.939	(1.036)	2589	1.36664	0.7262(Q)
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	16.221	16.211	(1.205)	15222	7.27979	3.868
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG79C.d
Lab Smp Id: RG79C
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18507

Calibration Date: 05-AUG-2010
Calibration Time: 10:49
Client Smp ID: PSB11-2-4-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	183633	40.05
34 1,4-Difluorobenze	191559	95780	383118	257432	34.39
52 d5-Chlorobenzene	161199	80600	322398	172556	7.05
76 d4-1,4-Dichlorobe	88279	44140	176558	62174	-29.57

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.62	0.00
34 1,4-Difluorobenze	7.63	7.13	8.13	7.64	0.13
52 d5-Chlorobenzene	10.78	10.28	11.28	10.78	0.00
76 d4-1,4-Dichlorobe	13.46	12.96	13.96	13.46	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: Floyd/Snider
Sample Matrix: SOLID
Lab Smp Id: RG79C
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18507

Client SDG: RG79
Fraction: VOA
Client Smp ID: PSB11-2-4-073010
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	53.251	106.50	30-160
$ 31 d4-1,2-Dichloroeth	50.000	52.234	104.47	75-152
$ 43 d8-Toluene	50.000	44.798	89.60	82-115
$ 62 4-Bromofluorobenze	50.000	45.458	90.92	64-120
$ 79 d4-1,2-Dichloroben	50.000	48.633	97.27	80-120

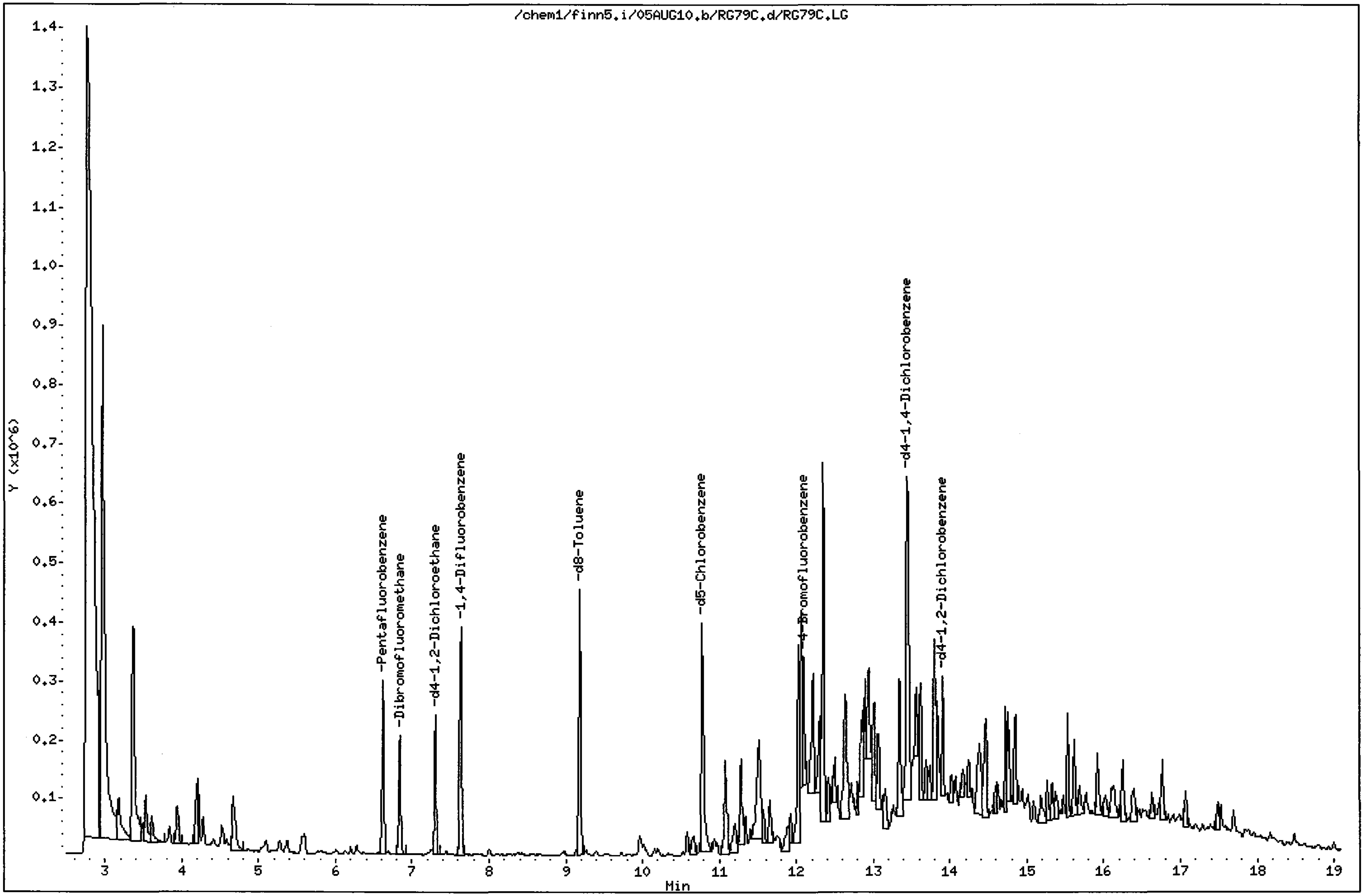
Data File: /chem1/finn5.i/05AUG10.b/RG79C.d
Date : 05-AUG-2010 15:29
Client ID: PSB11-2-4-073010
Sample Info: RG79C,5,9.41,0

Column phase: Rtx502.2

Page 1

Instrument: finn5.i

Operator: PB
Column diameter: 0.18



Data File: /chem1/finn5.i/05AUG10.b/RG79C.d

Date : 05-AUG-2010 15:29

Client ID: PSB11-2-4-073010

Instrument: finn5.i

Sample Info: RG79C,5,9.41,0

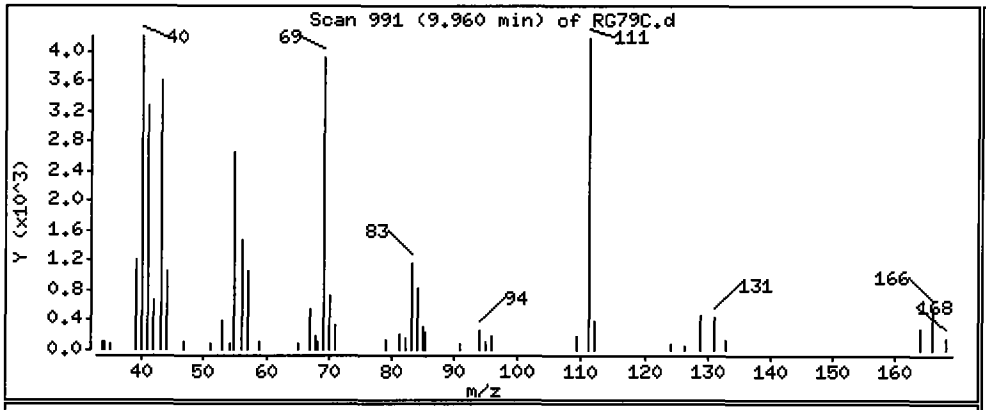
Operator: PB

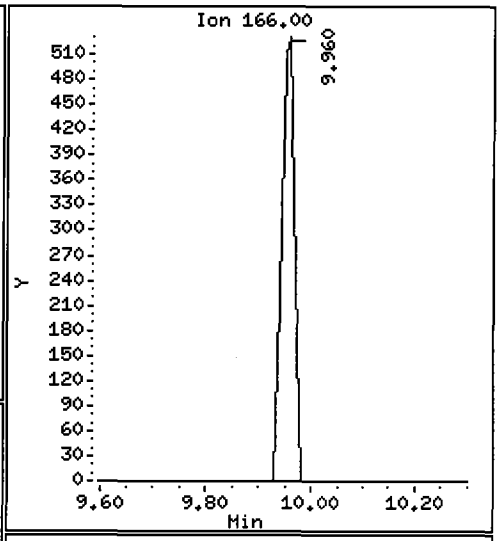
Column phase: Rtx502.2

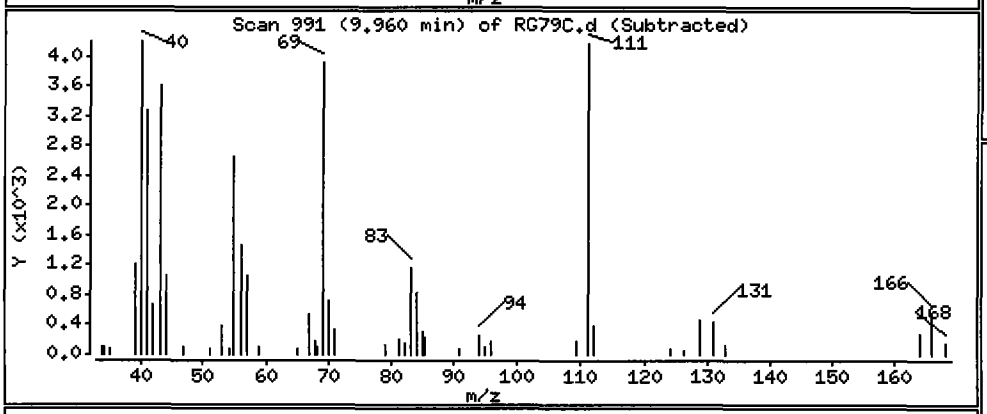
Column diameter: 0.18

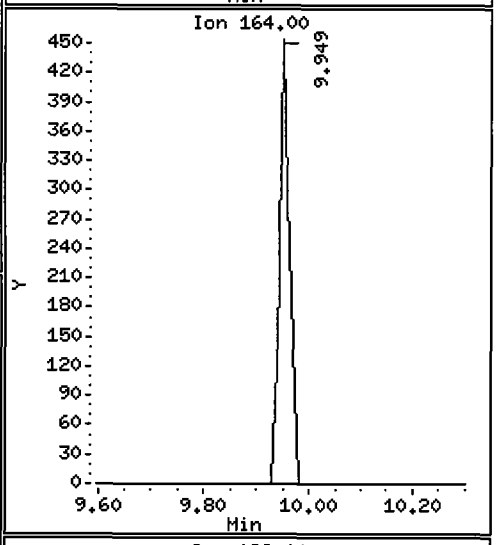
49 Tetrachloroethene

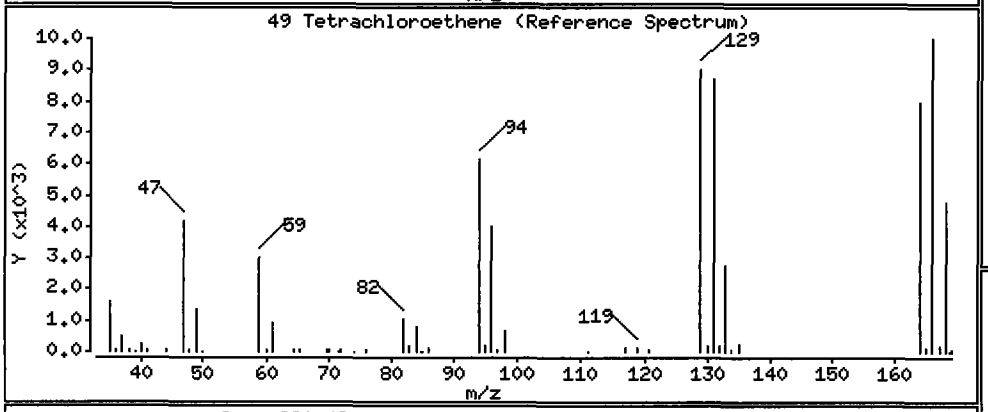
Concentration: 0.2503 ug/Kg

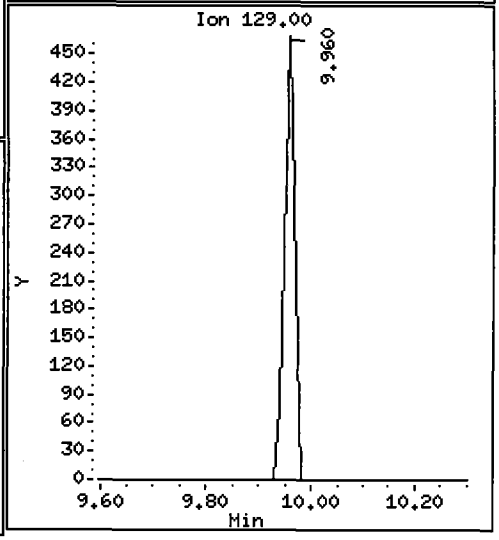


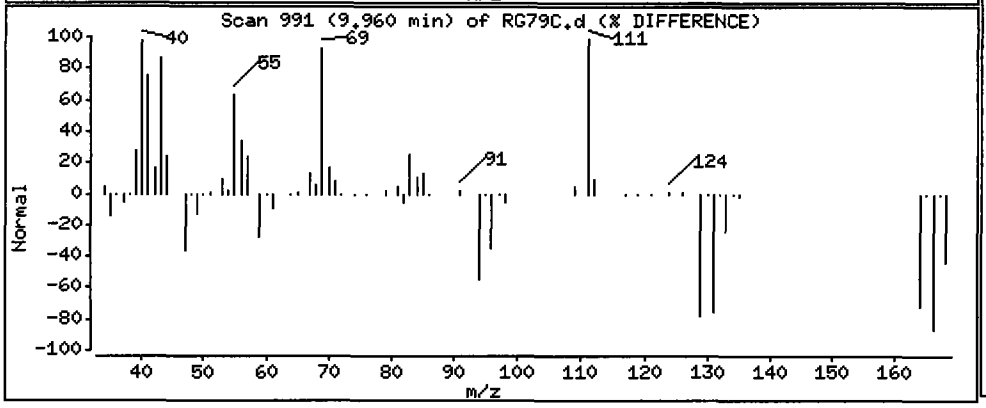












Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/05AUG10.b/RG79D.d
Lab Smp Id: RG79D Client Smp ID: PSB11-2-4-073010-D
Inj Date : 05-AUG-2010 15:55
Operator : PB Inst ID: finn5.i
Smp Info : RG79D,5,10.33,0
Misc Info : 10-18508
Comment :
Method : /chem1/finn5.i/05AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:03 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	10.33000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	3.909	3.909	(0.590)	3643	1.55772	0.7540
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.683	4.673	(0.707)	87650	100.340	48.567
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	5.156	5.156	(0.778)	1959	0.56036	0.2712
13 Methylene Chloride	84	5.276	5.266	(0.797)	15684	4.71081	2.280
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	5.377	5.367	(0.812)	15157	1.65280	0.8000
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.281	6.271	(0.948)	11252	11.4477	5.541
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.623	6.623	(1.000)	156091	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.844	6.834	(1.033)	103234	55.4909	26.859(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.306	7.296	(1.103)	118715	58.3175	28.227
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	7.447	7.437	(0.975)	4145	0.54873	0.2656
*	34 1,4-Difluorobenzene	114	7.638	7.628	(1.000)	230038	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	9.186	9.176	(1.203)	239556	47.3939	22.940
	44 Toluene	92	9.266	9.266	(1.213)	2401	0.53572	0.2593
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	10.784	10.784	(1.000)	170004	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	10.944	10.934	(1.015)	1130	0.45850	0.2219(Q)
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	12.110	12.100	(1.123)	86770	43.6113	21.109
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
66	N-Propyl Benzene	91	Compound Not Detected.					
67	Bromobenzene	156	Compound Not Detected.					
68	1,3,5-Trimethyl Benzene	105	12.442	12.432	(0.924)	1910	0.55876	0.2704
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	12.894	12.894	(0.957)	6452	1.91734	0.9280
73	S-Butyl Benzene	105	13.095	13.085	(0.972)	2469	0.51319	0.2484
74	4-Isopropyl Toluene	119	13.236	13.236	(0.983)	2998	0.90816	0.4396
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	13.467	13.457	(1.000)	62557	50.0000	
77	1,4-Dichlorobenzene	146	13.507	13.497	(1.003)	947	0.47186	0.2284(Q)
78	N-Butyl Benzene	91	13.718	13.708	(1.019)	3522	0.98800	0.4782(Q)
$ 79	d4-1,2-Dichlorobenzene	152	13.909	13.909	(1.033)	56604	49.7456	24.078
80	1,2-Dichlorobenzene	146	13.949	13.939	(1.036)	1201	0.63008	0.3050(Q)
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	Compound Not Detected.					
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG79D.d
Lab Smp Id: RG79D
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18508

Calibration Date: 05-AUG-2010
Calibration Time: 10:49
Client Smp ID: PSB11-2-4-073010-D
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	156091	19.05
34 1,4-Difluorobenze	191559	95780	383118	230038	20.09
52 d5-Chlorobenzene	161199	80600	322398	170004	5.46
76 d4-1,4-Dichlorobe	88279	44140	176558	62557	-29.14

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.62	0.00
34 1,4-Difluorobenze	7.63	7.13	8.13	7.64	0.13
52 d5-Chlorobenzene	10.78	10.28	11.28	10.78	0.00
76 d4-1,4-Dichlorobe	13.46	12.96	13.96	13.47	0.07

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: Floyd/Snider
Sample Matrix: SOLID
Lab Smp Id: RG79D
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18508

Client SDG: RG79
Fraction: VOA
Client Smp ID: PSB11-2-4-073010-D
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	55.491	110.98	30-160
$ 31 d4-1,2-Dichloroeth	50.000	58.317	116.63	75-152
$ 43 d8-Toluene	50.000	47.394	94.79	82-115
$ 62 4-Bromofluorobenze	50.000	43.611	87.22	64-120
$ 79 d4-1,2-Dichloroben	50.000	49.746	99.49	80-120

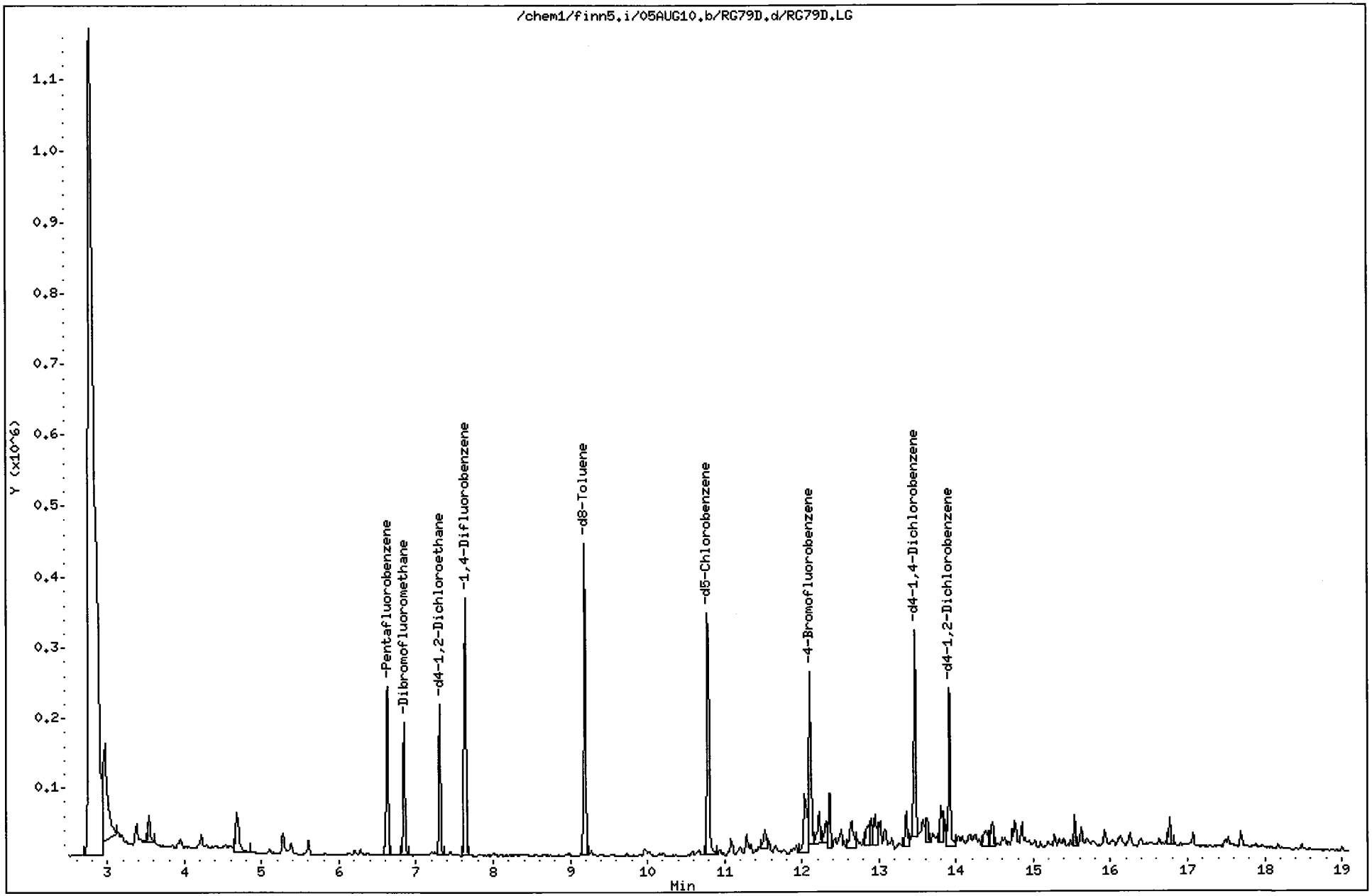
Data File: /chem1/finn5.i/05AUG10.b/RG79D.d
Date : 05-AUG-2010 15:55
Client ID: PSB11-2-4-073010-D
Sample Info: RG79D,5,10.33,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2

RG79 : 69418



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/05AUG10.b/RG79E.d
Lab Smp Id: RG79E Client Smp ID: PSB11-4-6-073010
Inj Date : 05-AUG-2010 16:22
Operator : PB Inst ID: finn5.i
Smp Info : RG79E,5,9.15,0
Misc Info : 10-18509
Comment :
Method : /chem1/finn5.i/05AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:03 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	9.15000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.683	4.673	(0.706)	71327	87.0818	47.586
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.286	5.266	(0.797)	15254	4.88624	2.670
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	5.387	5.367	(0.812)	23830	2.77130	1.514
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.291	6.271	(0.948)	9180	9.96055	5.443
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.633	6.623	(1.000)	146361	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.854	6.834	(1.033)	96185	55.1390	30.130(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.316	7.296	(1.103)	110516	57.8990	31.639
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	7.457	7.437	(0.975)	4852	0.68097	0.3721
*	34 1,4-Difluorobenzene	114	7.648	7.628	(1.000)	216984	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	9.196	9.176	(1.202)	237574	49.8295	27.229
	44 Toluene	92	9.276	9.266	(1.213)	2944	0.69640	0.3805
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	10.794	10.784	(1.000)	176180	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	10.954	10.934	(1.015)	1061	0.41541	0.2270
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	12.110	12.100	(1.122)	98415	47.7302	26.082
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	65 Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
	66 N-Propyl Benzene	91	Compound Not Detected.					
	67 Bromobenzene	156	Compound Not Detected.					
	68 1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
	69 2-Chloro Toluene	91	Compound Not Detected.					
	70 4-Chloro Toluene	91	Compound Not Detected.					
	71 T-Butyl Benzene	119	Compound Not Detected.					
	72 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	73 S-Butyl Benzene	105	Compound Not Detected.					
	74 4-Isopropyl Toluene	119	Compound Not Detected.					
	75 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	76 d4-1,4-Dichlorobenzene	152	13.477	13.457	(1.000)	85317	50.0000	
	77 1,4-Dichlorobenzene	146	Compound Not Detected.					
	78 N-Butyl Benzene	91	Compound Not Detected.					
$	79 d4-1,2-Dichlorobenzene	152	13.919	13.909	(1.033)	78274	50.4389	27.562
	80 1,2-Dichlorobenzene	146	Compound Not Detected.					
	81 1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
	82 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	83 Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
	84 Naphthalene	128	Compound Not Detected.					
	85 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG79E.d
Lab Smp Id: RG79E
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18509

Calibration Date: 05-AUG-2010
Calibration Time: 10:49
Client Smp ID: PSB11-4-6-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	146361	11.63
34 1,4-Difluorobenze	191559	95780	383118	216984	13.27
52 d5-Chlorobenzene	161199	80600	322398	176180	9.29
76 d4-1,4-Dichlorobe	88279	44140	176558	85317	-3.36

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.63	0.15
34 1,4-Difluorobenze	7.63	7.13	8.13	7.65	0.26
52 d5-Chlorobenzene	10.78	10.28	11.28	10.79	0.09
76 d4-1,4-Dichlorobe	13.46	12.96	13.96	13.48	0.15

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: Floyd/Snider
Client SDG: RG79
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: RG79E
Client Smp ID: PSB11-4-6-073010
Level: LOW
Operator: PB
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: all.spk
Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18509

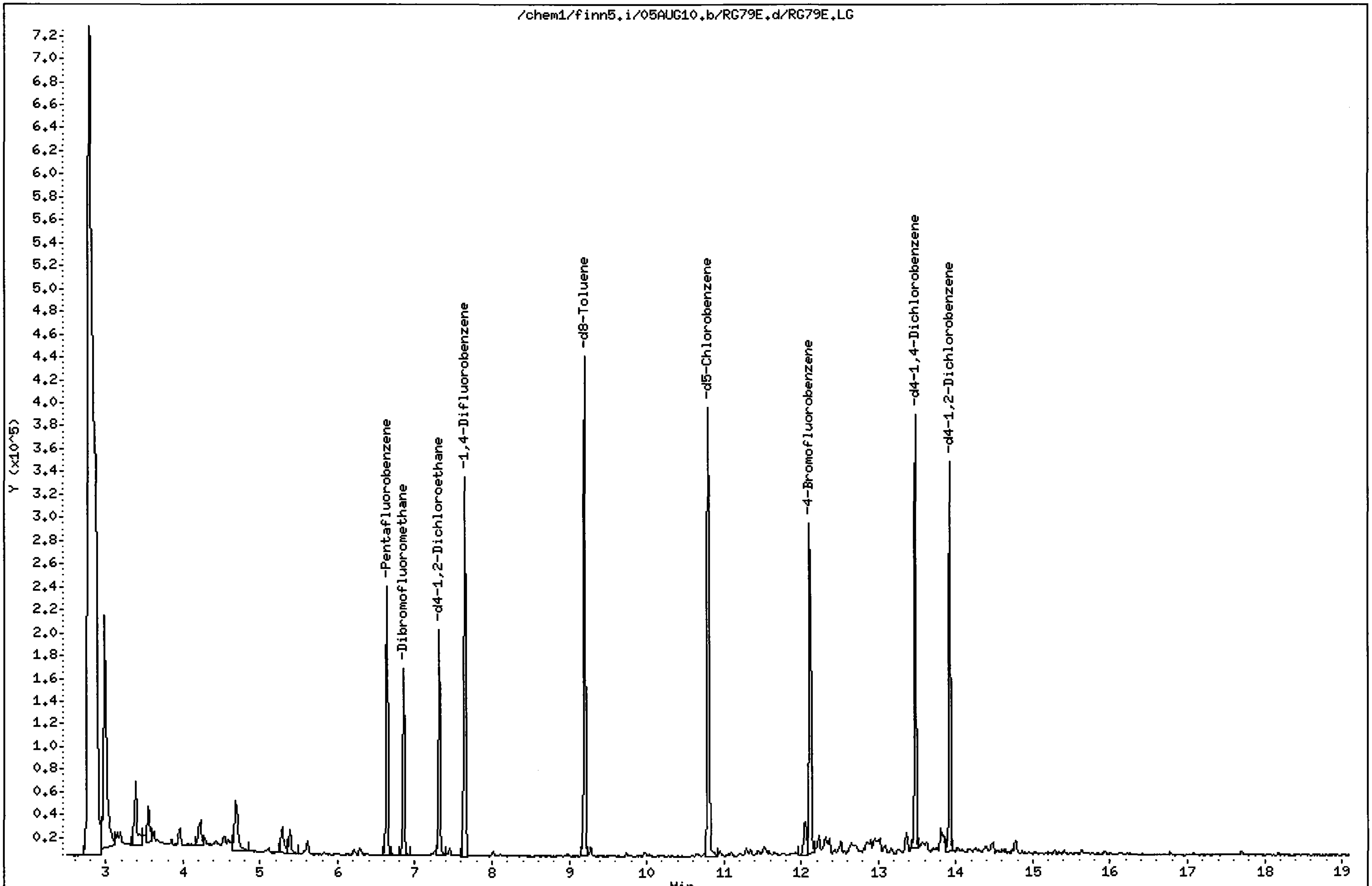
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	55.139	110.28	30-160
$ 31 d4-1,2-Dichloroeth	50.000	57.899	115.80	75-152
$ 43 d8-Toluene	50.000	49.830	99.66	82-115
$ 62 4-Bromofluorobenze	50.000	47.730	95.46	64-120
$ 79 d4-1,2-Dichloroben	50.000	50.439	100.88	80-120

Data File: /chem1/finn5.i/05AUG10.b/RG79E.d
Date : 05-AUG-2010 16:22
Client ID: PSB11-4-6-073010
Sample Info: RG79E,5,9,15,0

Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/05AUG10.b/RG79G.d
Lab Smp Id: RG79G Client Smp ID: PSB11-11-13-073010
Inj Date : 05-AUG-2010 16:49
Operator : PB Inst ID: finn5.i
Smp Info : RG79G,5,8.99,0
Misc Info : 10-18511
Comment :
Method : /chem1/finn5.i/05AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:05 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	8.99000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.683	4.673	(0.706)	105749	153.827	85.554
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.276	5.266	(0.795)	16928	6.46069	3.593
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	5.377	5.367	(0.811)	33539	4.64720	2.585
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.281	6.271	(0.947)	14965	19.3464	10.760
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.633	6.623	(1.000)	122841	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.844	6.834	(1.032)	83867	57.2828	31.859(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.306	7.296	(1.101)	97332	60.7552	33.790
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	7.447	7.437	(0.975)	4643	0.75839	0.4218
*	34 1,4-Difluorobenzene	114	7.638	7.628	(1.000)	186440	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	9.186	9.176	(1.203)	203493	49.6736	27.627
	44 Toluene	92	9.276	9.266	(1.214)	3325	0.91538	0.5091
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	9.960	9.949	(0.924)	859	0.56167	0.3124
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	10.784	10.784	(1.000)	137655	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	10.944	10.934	(1.015)	1179	0.59080	0.3286
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	12.110	12.100	(1.123)	64853	40.2557	22.389
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
66	N-Propyl Benzene	91	Compound Not Detected.					
67	Bromobenzene	156	Compound Not Detected.					
68	1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	12.894	12.894	(0.957)	2629	1.03595	0.5762
73	S-Butyl Benzene	105	Compound Not Detected.					
74	4-Isopropyl Toluene	119	13.236	13.236	(0.983)	1555	0.62461	0.3474
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	13.467	13.457	(1.000)	47177	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.909	13.909	(1.033)	42989	50.0969	27.862
80	1,2-Dichlorobenzene	146	Compound Not Detected.					
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	Compound Not Detected.					
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG79G.d
Lab Smp Id: RG79G
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18511

Calibration Date: 05-AUG-2010
Calibration Time: 10:49
Client Smp ID: PSB11-11-13-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	122841	-6.31
34 1,4-Difluorobenze	191559	95780	383118	186440	-2.67
52 d5-Chlorobenzene	161199	80600	322398	137655	-14.61
76 d4-1,4-Dichlorobe	88279	44140	176558	47177	-46.56

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.63	0.15
34 1,4-Difluorobenze	7.63	7.13	8.13	7.64	0.13
52 d5-Chlorobenzene	10.78	10.28	11.28	10.78	0.00
76 d4-1,4-Dichlorobe	13.46	12.96	13.96	13.47	0.07

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.

Report Date: 09-Aug-2010 14:05

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider
Client SDG: RG79
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: RG79G
Client Smp ID: PSB11-11-13-073010
Level: LOW
Operator: PB
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: all.spk
Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18511

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	57.283	114.57	30-160
$ 31 d4-1,2-Dichloroeth	50.000	60.755	121.51	75-152
$ 43 d8-Toluene	50.000	49.674	99.35	82-115
$ 62 4-Bromofluorobenze	50.000	40.256	80.51	64-120
$ 79 d4-1,2-Dichloroben	50.000	50.097	100.19	80-120

Data File: /chem1/finn5.i/05AUG10.b/RG79G.d

Date : 05-AUG-2010 16:49

Client ID: PSB11-11-13-073010

Sample Info: RG79G,5,8.99,0

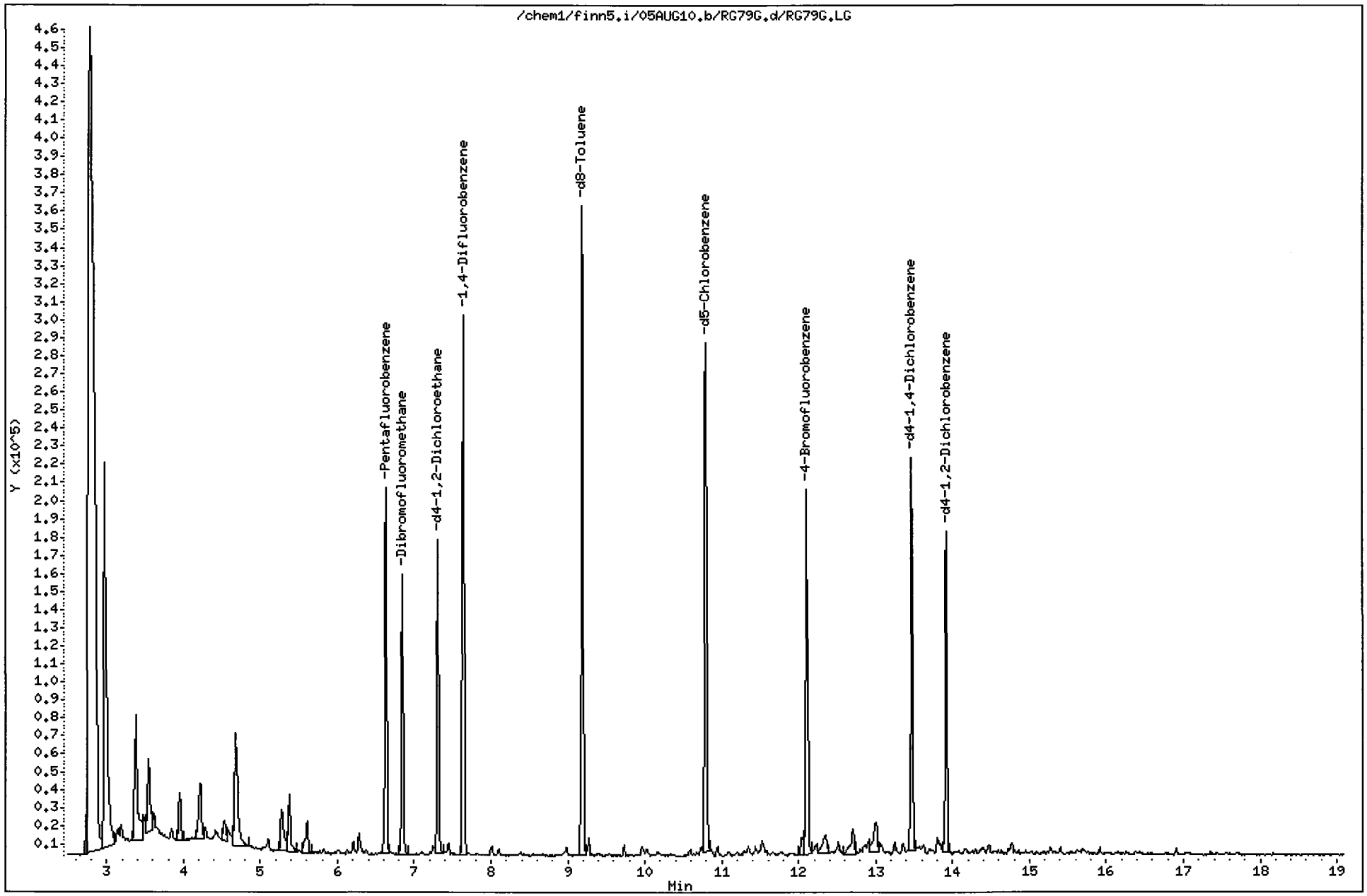
Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB

Column diameter: 0.18

RG79G : 08169



Data File: /chem1/finn5.i/05AUG10.b/RG79G.d

Date : 05-AUG-2010 16:49

Client ID: PSB11-11-13-073010

Instrument: finn5.i

Sample Info: RG79G,5,8.99,0

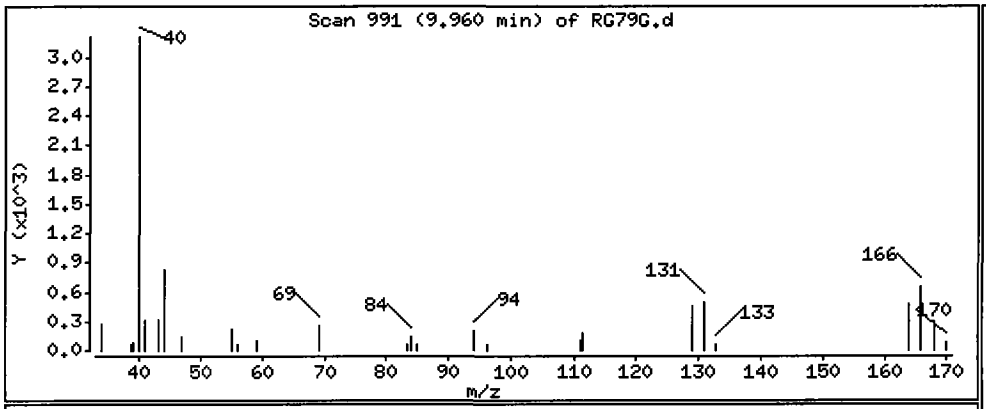
Operator: PB

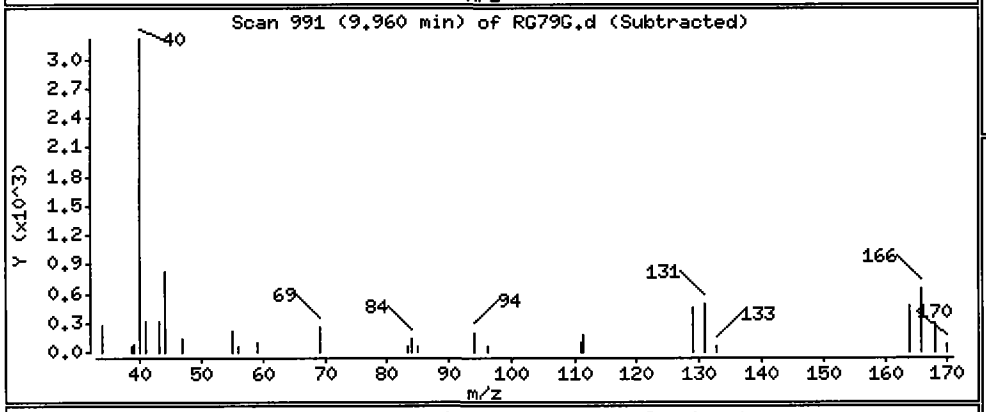
Column phase: Rtx502.2

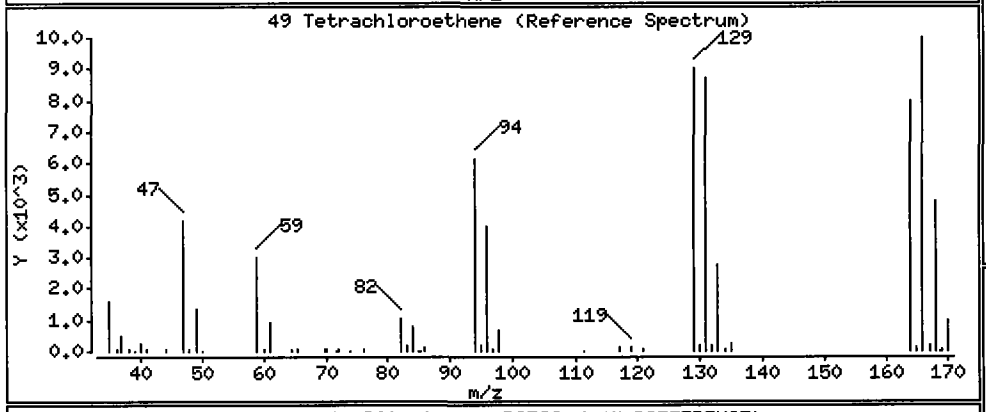
Column diameter: 0.18

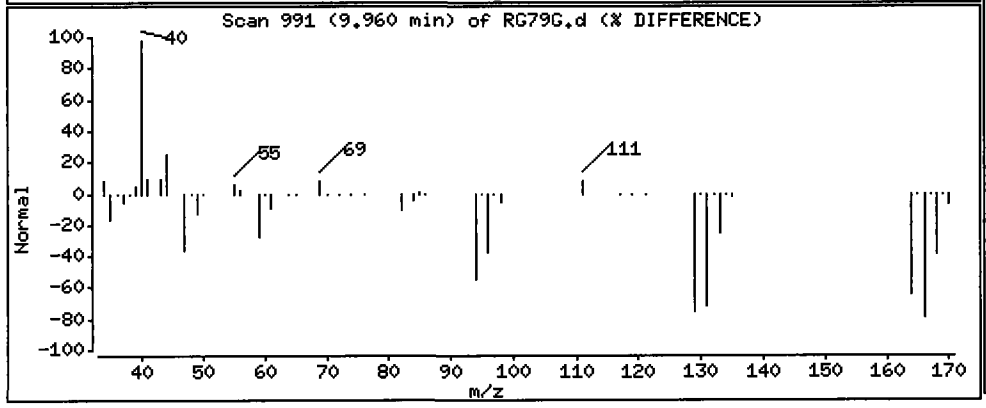
49 Tetrachloroethene

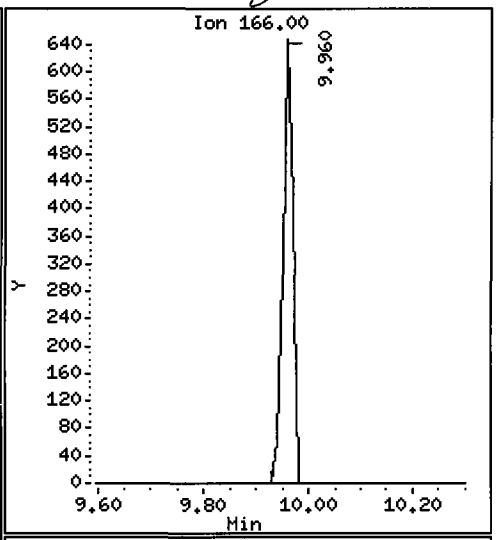
Concentration: 0.3124 ug/Kg

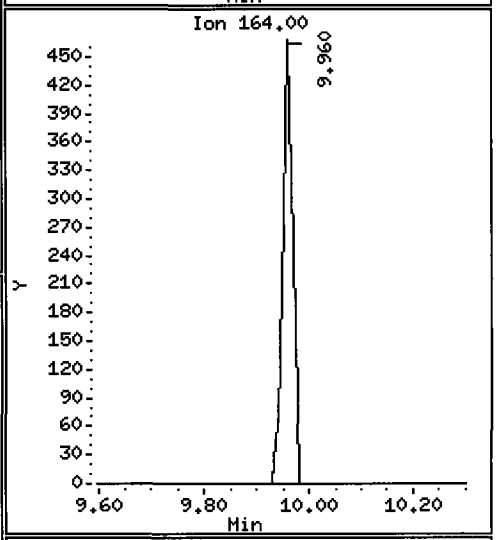


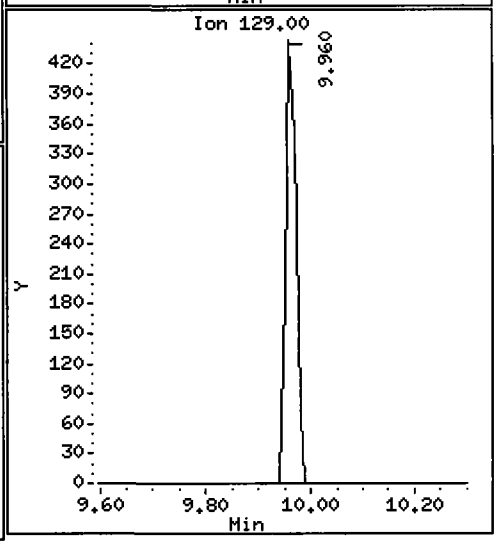












Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/05AUG10.b/RG79H.d
Lab Smp Id: RG79H Client Smp ID: PSB11-14-16-073010
Inj Date : 05-AUG-2010 17:23
Operator : PB Inst ID: finn5.i
Smp Info : RG79H,5,10.89,0
Misc Info : 10-18512
Comment :
Method : /chem1/finn5.i/05AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:05 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	10.89000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.673	4.673	(0.706)	100681	158.509	72.777
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.276	5.266	(0.797)	13584	5.61115	2.576
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)	
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.						
	15 Carbon Disulfide	76	5.377	5.367	(0.812)	120734	18.1060	8.313	
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.						
	18 Vinyl Acetate	43	Compound Not Detected.						
	19 1,1-Dichloroethane	63	Compound Not Detected.						
	20 2-Butanone	43	6.281	6.271	(0.948)	11029	15.4316	7.085	
	21 2,2-Dichloropropane	77	Compound Not Detected.						
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.						
*	23 Pentafluorobenzene	168	6.623	6.623	(1.000)	113499	50.0000		
	24 Chloroform	83	Compound Not Detected.						
	26 Bromochloromethane	128	Compound Not Detected.						
$	25 Dibromofluoromethane	111	6.844	6.834	(1.033)	80676	59.6388	27.382	(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.						
	29 1,1-Dichloropropene	75	Compound Not Detected.						
	30 Carbon Tetrachloride	117	Compound Not Detected.						
$	31 d4-1,2-Dichloroethane	65	7.306	7.296	(1.103)	92151	62.2557	28.584	
	32 1,2-Dichloroethane	62	Compound Not Detected.						
	33 Benzene	78	7.447	7.437	(0.975)	5806	0.99679	0.4577	
*	34 1,4-Difluorobenzene	114	7.638	7.628	(1.000)	177380	50.0000		
	35 Trichloroethene	95	Compound Not Detected.						
	36 1,2-Dichloropropane	63	Compound Not Detected.						
	37 Bromodichloromethane	83	Compound Not Detected.						
	39 Dibromomethane	93	Compound Not Detected.						
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.						
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.						
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.						
$	43 d8-Toluene	98	9.186	9.176	(1.203)	176543	45.2961	20.797	
	44 Toluene	92	9.266	9.266	(1.213)	6094	1.76338	0.8096	
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.						
	46 2-Hexanone	43	Compound Not Detected.						
	47 1,1,2-Trichloroethane	97	Compound Not Detected.						
	48 1,3-Dichloropropane	76	Compound Not Detected.						
	49 Tetrachloroethene	166	9.960	9.949	(0.924)	1415	1.08777	0.4994	
	50 Chlorodibromomethane	129	Compound Not Detected.						
	51 1,2-Dibromoethane	107	Compound Not Detected.						
*	52 d5-Chlorobenzene	117	10.784	10.784	(1.000)	117085	50.0000		
	53 Chlorobenzene	112	Compound Not Detected.						
	54 Ethyl Benzene	91	10.864	10.854	(1.007)	3015	0.64922	0.2981	
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	56 m,p-xylene	106	10.934	10.934	(1.014)	4224	2.48851	1.142	
	57 o-Xylene	106	11.427	11.427	(1.060)	4638	2.62907	1.207	
	58 Styrene	104	Compound Not Detected.						
	59 Isopropyl Benzene	105	11.809	11.809	(0.877)	15058	5.79654	2.661	
	60 Bromoform	173	Compound Not Detected.						
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
$	62 4-Bromofluorobenzene	95	12.110	12.100	(1.123)	64529	47.0915	21.621	
	63 1,2,3-Trichloropropane	110	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
66	N-Propyl Benzene	91	12.261	12.261	(0.910)	38094	11.3595	5.216
67	Bromobenzene	156	Compound Not Detected.					
68	1,3,5-Trimethyl Benzene	105	12.432	12.432	(0.923)	53146	25.2030	11.572
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	12.844	12.844	(0.954)	2044	1.13302	0.5202(Q)
72	1,2,4-Trimethylbenzene	105	12.894	12.894	(0.957)	175808	84.6902	38.884
73	S-Butyl Benzene	105	13.095	13.085	(0.972)	34830	11.7355	5.388
74	4-Isopropyl Toluene	119	13.236	13.236	(0.983)	28442	13.9663	6.412
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	13.467	13.457	(1.000)	38591	50.0000	(Q)
77	1,4-Dichlorobenzene	146	13.497	13.497	(1.002)	2862	2.31168	1.061
78	N-Butyl Benzene	91	13.708	13.708	(1.018)	32408	14.7370	6.766(Q)
$ 79	d4-1,2-Dichlorobenzene	152	13.909	13.909	(1.033)	35287	50.2704	23.081
80	1,2-Dichlorobenzene	146	13.939	13.939	(1.035)	677	0.57575	0.2643(Q)
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	16.221	16.211	(1.204)	36566	28.1739	12.936
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG79H.d
Lab Smp Id: RG79H
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18512

Calibration Date: 05-AUG-2010
Calibration Time: 10:49
Client Smp ID: PSB11-14-16-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF	
23 Pentafluorobenzen	131115	65558	262230	113499	-13.44	
34 1,4-Difluorobenze	191559	95780	383118	177380	-7.40	
52 d5-Chlorobenzene	161199	80600	322398	117085	-27.37	
76 d4-1,4-Dichlorobe	88279	44140	176558	38591	-56.29	<- nlq

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.62	0.00
34 1,4-Difluorobenze	7.63	7.13	8.13	7.64	0.13
52 d5-Chlorobenzene	10.78	10.28	11.28	10.78	0.00
76 d4-1,4-Dichlorobe	13.46	12.96	13.96	13.47	0.07

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: Floyd/Snider
Client SDG: RG79
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: RG79H
Client Smp ID: PSB11-14-16-073010
Level: LOW
Operator: PB
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: all.spk
Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18512

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	59.639	119.28	30-160
$ 31 d4-1,2-Dichloroeth	50.000	62.256	124.51	75-152
$ 43 d8-Toluene	50.000	45.296	90.59	82-115
$ 62 4-Bromofluorobenze	50.000	47.092	94.18	64-120
$ 79 d4-1,2-Dichloroben	50.000	50.270	100.54	80-120

Data File: /chem1/finn5.i/05AUG10.b/RG79H.d

Date : 05-AUG-2010 17:23

Client ID: PSB11-14-16-073010

Sample Info: RG79H,5,10.89,0

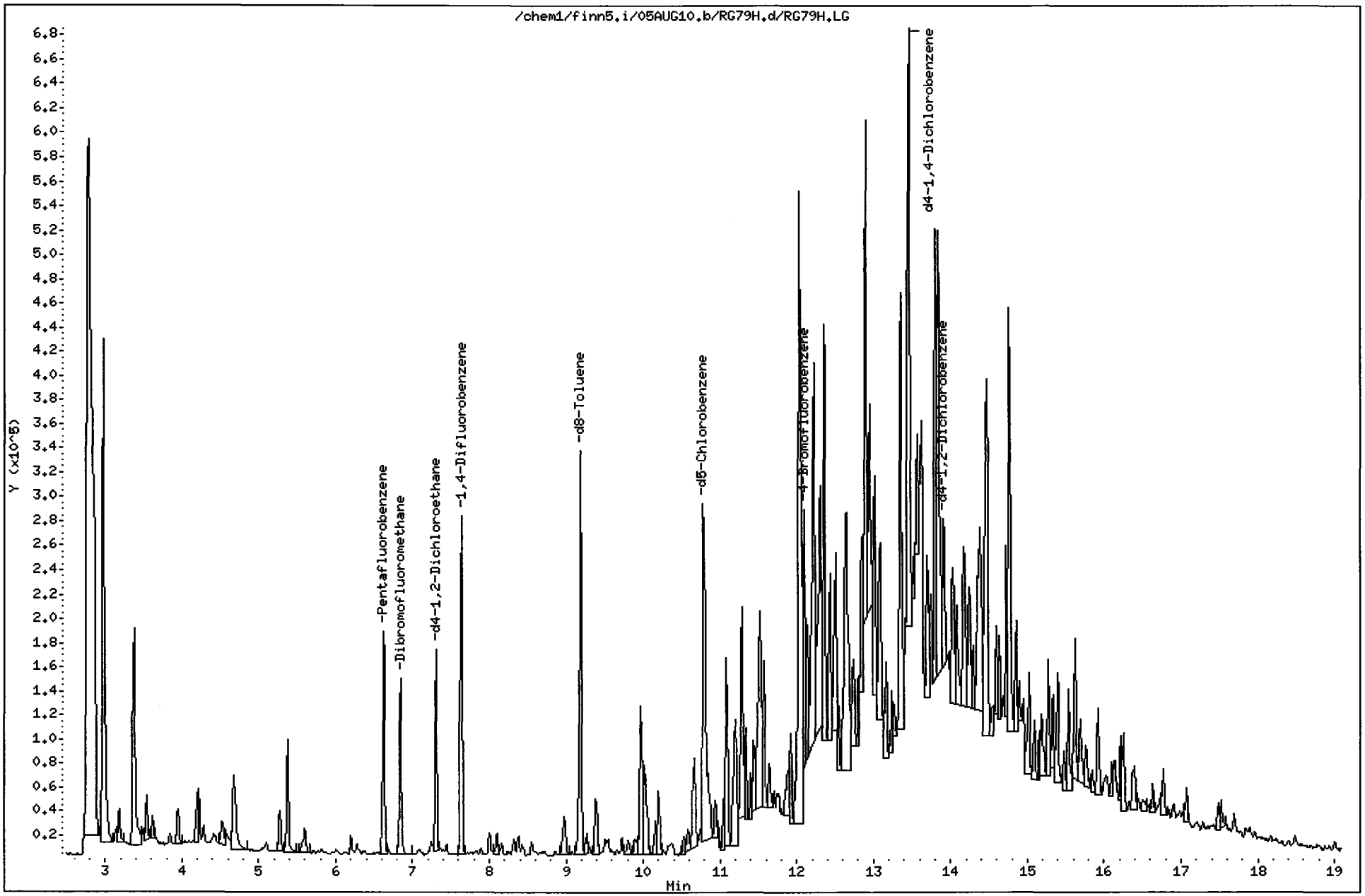
Instrument: finn5.i

Operator: PB

Column phase: Rtx502.2

Column diameter: 0.18

RG79 : 99457



Data File: /chem1/finn5.i/05AUG10.b/RG79H.d

Date : 05-AUG-2010 17:23

Client ID: PSB11-14-16-073010

Instrument: finn5.i

Sample Info: RG79H,5,10.89,0

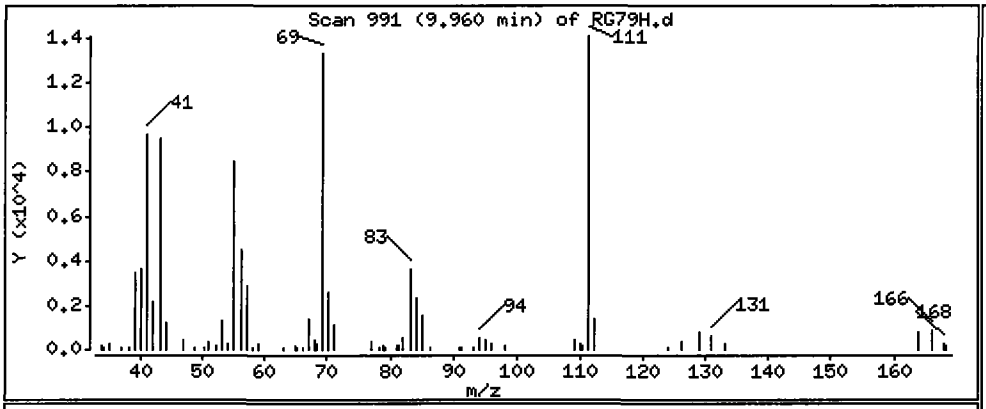
Operator: PB

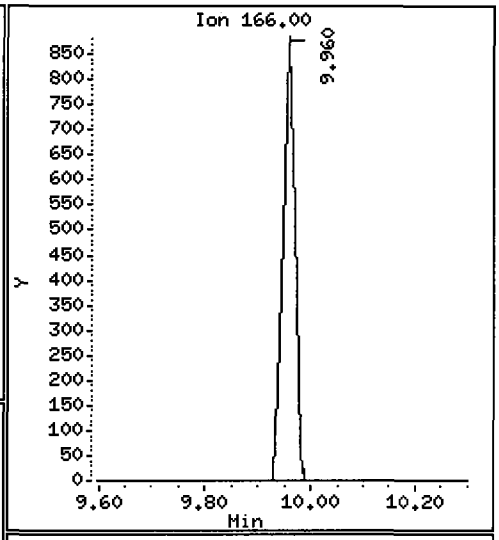
Column phase: Rtx502.2

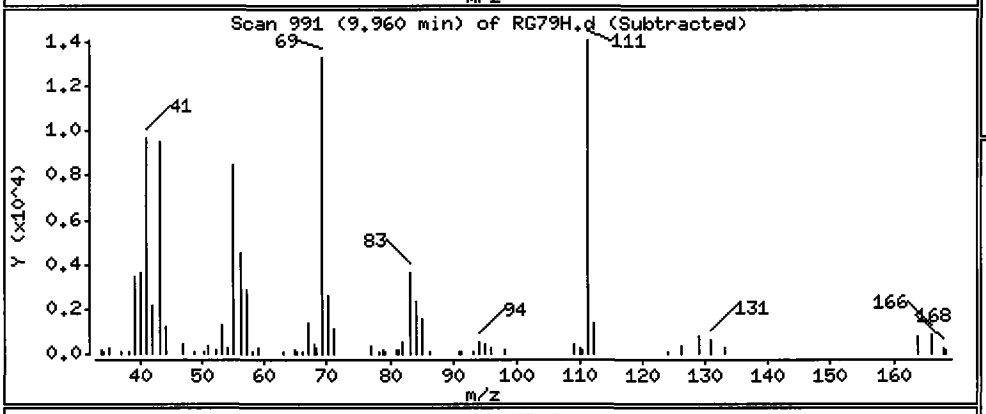
Column diameter: 0.18

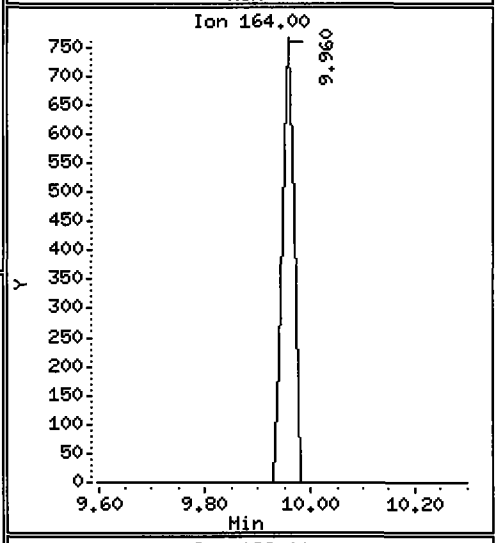
49 Tetrachloroethene

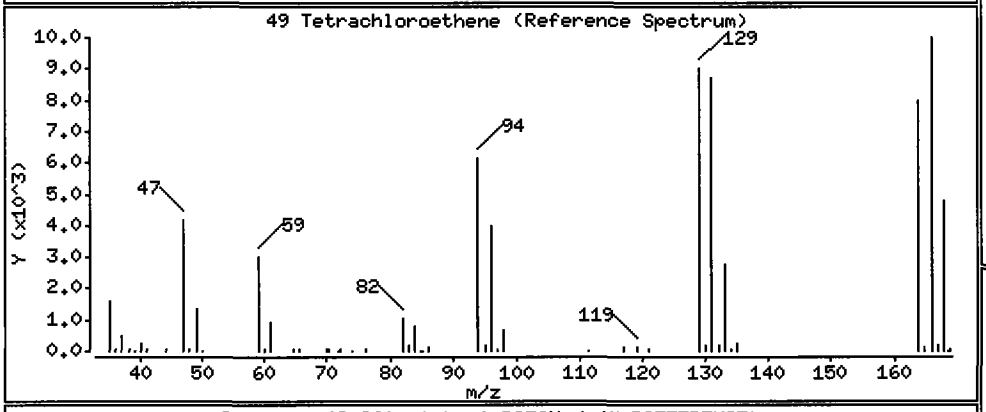
Concentration: 0.4994 ug/Kg

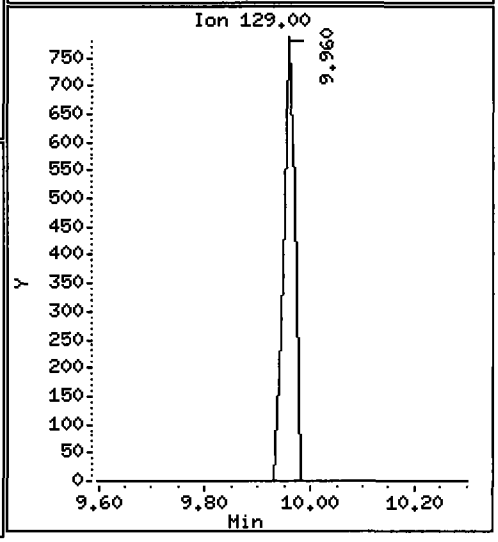


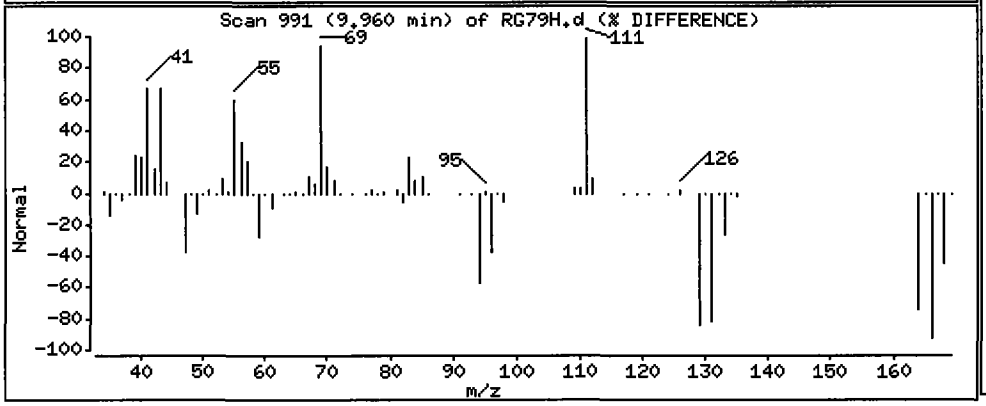












Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/05AUG10.b/RG79J.d
Lab Smp Id: RG79J Client Smp ID: PSB11-TB
Inj Date : 05-AUG-2010 17:44
Operator : PB Inst ID: finn5.i
Smp Info : RG79J,5,5,0
Misc Info : 10-18514
Comment :
Method : /chem1/finn5.i/05AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:03 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	PurgeVolume (mL)
Sa	0.00000	SampleAmount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/L)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.693	4.673	(0.706)	3860	5.40888	5.409
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	Compound Not Detected.					
14 Acrylonitrile	53	Compound Not Detected.					
16 Methyl tert-Butyl Ether	73	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/L)
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	Compound Not Detected.					
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.643	6.623	(1.000)	127520	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.864	6.834	(1.033)	81213	53.4347	53.435(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.326	7.296	(1.103)	89016	53.5255	53.526
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.648	7.628	(1.000)	190295	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	9.206	9.176	(1.204)	212955	50.9303	50.930
	44 Toluene	92	Compound Not Detected.					
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	10.804	10.784	(1.000)	155627	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	10.954	10.934	(1.014)	1207	0.53498	0.5350(Q)
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	12.120	12.100	(1.122)	86739	47.6232	47.623
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					
	65 Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/L)
66	N-Propyl Benzene	91	Compound Not Detected.					
67	Bromobenzene	156	Compound Not Detected.					
68	1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
73	S-Butyl Benzene	105	Compound Not Detected.					
74	4-Isopropyl Toluene	119	Compound Not Detected.					
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	13.477	13.457	(1.000)	76606	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.929	13.909	(1.034)	72044	51.7033	51.703
80	1,2-Dichlorobenzene	146	Compound Not Detected.					
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	Compound Not Detected.					
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG79J.d
Lab Smp Id: RG79J
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18514

Calibration Date: 05-AUG-2010
Calibration Time: 10:49
Client Smp ID: PSB11-TB
Level: LOW
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	127520	-2.74
34 1,4-Difluorobenze	191559	95780	383118	190295	-0.66
52 d5-Chlorobenzene	161199	80600	322398	155627	-3.46
76 d4-1,4-Dichlorobe	88279	44140	176558	76606	-13.22

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.64	0.30
34 1,4-Difluorobenze	7.63	7.13	8.13	7.65	0.26
52 d5-Chlorobenzene	10.78	10.28	11.28	10.80	0.19
76 d4-1,4-Dichlorobe	13.46	12.96	13.96	13.48	0.15

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: Floyd/Snider
Sample Matrix: LIQUID
Lab Smp Id: RG79J
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18514

Client SDG: RG79
Fraction: VOA
Client Smp ID: PSB11-TB
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

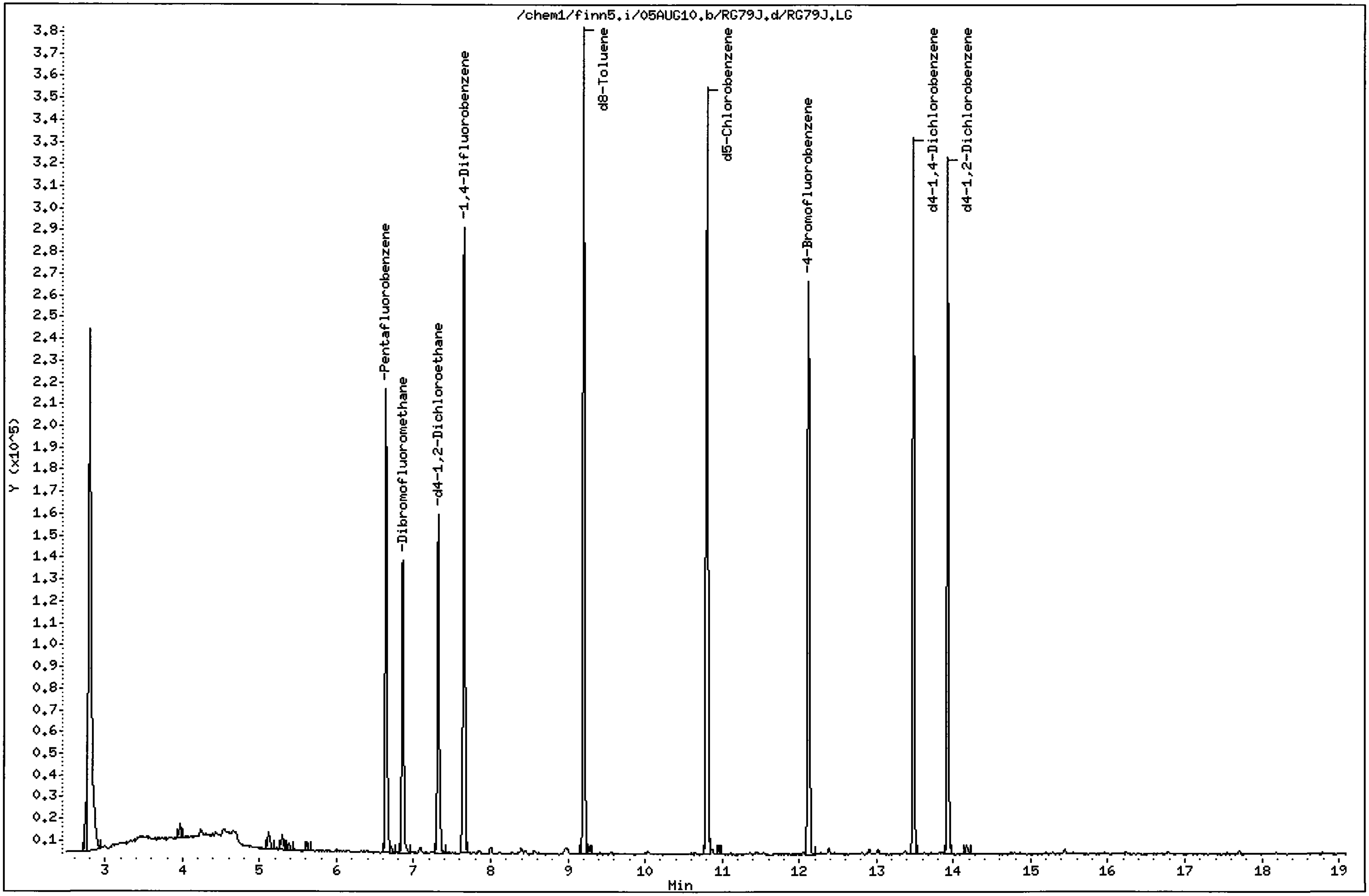
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	53.435	106.87	30-160
$ 31 d4-1,2-Dichloroeth	50.000	53.526	107.05	75-152
$ 43 d8-Toluene	50.000	50.930	101.86	82-115
$ 62 4-Bromofluorobenze	50.000	47.623	95.25	71-120
$ 79 d4-1,2-Dichloroben	50.000	51.703	103.41	80-121

Data File: /chem1/finn5.i/05AUG10.b/RG79J.d
Date : 05-AUG-2010 17:44
Client ID: PSB11-TB
Sample Info: RG79J,5,5,0

Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/05AUG10.b/RG79K.d
Lab Smp Id: RG79K Client Smp ID: PSB15-0-0.5-073010
Inj Date : 05-AUG-2010 18:10
Operator : PB Inst ID: finn5.i
Smp Info : RG79K,5,8.13,0
Misc Info : 10-18515
Comment :
Method : /chem1/finn5.i/05AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:03 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	8.13000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	3.919	3.909	(0.592)	2999	1.71021	1.052
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.673	4.673	(0.706)	273785	417.998	257.07
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	5.156	5.156	(0.778)	3578	1.36494	0.8394
13 Methylene Chloride	84	5.276	5.266	(0.797)	8955	3.58713	2.206
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	5.377	5.367	(0.812)	4100	0.59626	0.3667(Q)
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.281	6.271	(0.948)	15158	20.5671	12.649
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.623	6.623	(1.000)	117040	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.844	6.834	(1.033)	79460	56.9627	35.032(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.306	7.296	(1.103)	94795	62.1044	38.194
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	7.447	7.437	(0.975)	5206	0.90813	0.5585
*	34 1,4-Difluorobenzene	114	7.638	7.628	(1.000)	174578	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	9.186	9.176	(1.203)	191991	50.0503	30.781
	44 Toluene	92	9.276	9.266	(1.214)	4145	1.21866	0.7495
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	10.784	10.784	(1.000)	131624	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	10.944	10.934	(1.015)	2213	1.15975	0.7132(Q)
	57 o-Xylene	106	11.427	11.427	(1.060)	1246	0.62828	0.3864(Q)
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	12.110	12.100	(1.123)	66475	43.1531	26.539
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
66	N-Propyl Benzene	91	Compound Not Detected.					
67	Bromobenzene	156	Compound Not Detected.					
68	1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	12.894	12.894	(0.957)	1146	0.42253	0.2598
73	S-Butyl Benzene	105	Compound Not Detected.					
74	4-Isopropyl Toluene	119	Compound Not Detected.					
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	13.467	13.457	(1.000)	50421	50.0000	
77	1,4-Dichlorobenzene	146	13.507	13.497	(1.003)	1219	0.75359	0.4635(Q)
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.909	13.909	(1.033)	45682	49.8101	30.633
80	1,2-Dichlorobenzene	146	Compound Not Detected.					
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	Compound Not Detected.					
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG79K.d
Lab Smp Id: RG79K
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18515

Calibration Date: 05-AUG-2010
Calibration Time: 10:49
Client Smp ID: PSB15-0-0.5-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	117040	-10.73
34 1,4-Difluorobenze	191559	95780	383118	174578	-8.86
52 d5-Chlorobenzene	161199	80600	322398	131624	-18.35
76 d4-1,4-Dichlorobe	88279	44140	176558	50421	-42.88

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.62	0.00
34 1,4-Difluorobenze	7.63	7.13	8.13	7.64	0.13
52 d5-Chlorobenzene	10.78	10.28	11.28	10.78	0.00
76 d4-1,4-Dichlorobe	13.46	12.96	13.96	13.47	0.07

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: Floyd/Snider
Client SDG: RG79
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: RG79K
Client Smp ID: PSB15-0-0.5-073010
Level: LOW
Operator: PB
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: all.spk
Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18515

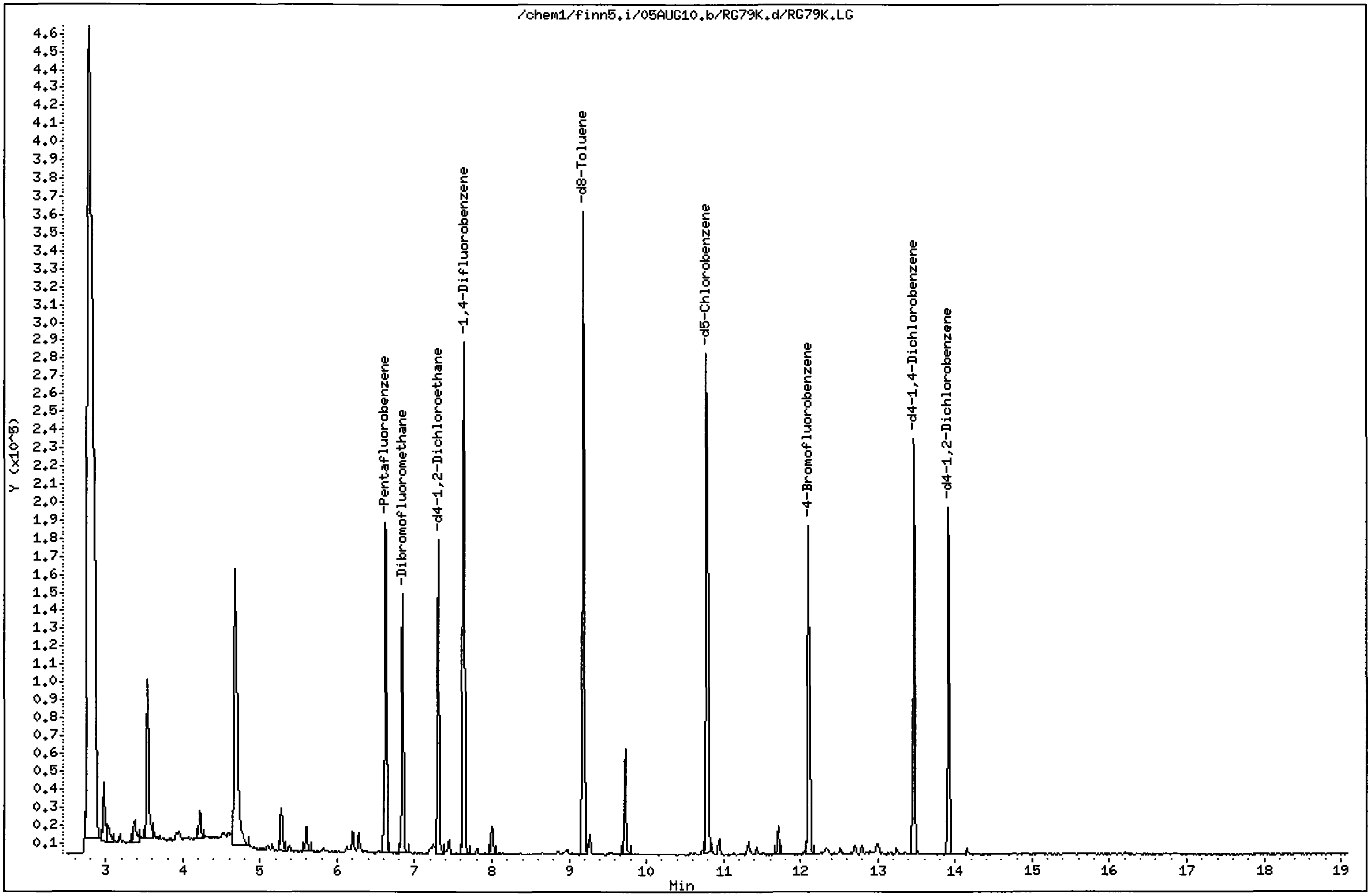
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	56.963	113.93	30-160
$ 31 d4-1,2-Dichloroeth	50.000	62.104	124.21	75-152
$ 43 d8-Toluene	50.000	50.050	100.10	82-115
$ 62 4-Bromofluorobenze	50.000	43.153	86.31	64-120
$ 79 d4-1,2-Dichloroben	50.000	49.810	99.62	80-120

Data File: /chem1/finn5.i/05AUG10.b/RG79K.d
Date : 05-AUG-2010 18:10
Client ID: PSB15-0-0.5-073010
Sample Info: RG79K,5,8,13,0

Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/05AUG10.b/RG79L.d
Lab Smp Id: RG79L Client Smp ID: PSB15-1.5-2-073010
Inj Date : 05-AUG-2010 18:37
Operator : PB Inst ID: finn5.i
Smp Info : RG79L,5,7.27,0
Misc Info : 10-18516
Comment :
Method : /chem1/finn5.i/05AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:03 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	7.27000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichlorol22Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.673	4.673	(0.706)	160063	233.077	160.30
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.266	5.266	(0.795)	13306	5.08362	3.496
14 Acrylonitrile	53	Compound Not Detected.					

		QUANT SIG				CONCENTRATIONS		
	Compounds	MASS	RT	EXP RT REL RT	RESPONSE	ON-COLUMN (ug/Kg)	FINAL (ug/Kg)	
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.271	6.271 (0.947)	8795	11.3818	7.828	
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.623	6.623 (1.000)	122713	50.0000		
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.834	6.834 (1.032)	82225	56.2199	38.666(Q)	
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.296	7.296 (1.102)	98826	61.7521	42.470	
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	7.437	7.437 (0.975)	2996	0.49371	0.3396	
*	34 1,4-Difluorobenzene	114	7.628	7.628 (1.000)	184802	50.0000		
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	9.176	9.176 (1.203)	206428	50.8367	34.963	
	44 Toluene	92	9.266	9.266 (1.215)	1716	0.47661	0.3278	
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	10.774	10.784 (1.000)	148626	50.0000		
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	Compound Not Detected.					
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	12.100	12.100 (1.123)	80944	46.5349	32.005	
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	65 Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
	66 N-Propyl Benzene	91	Compound Not Detected.					
	67 Bromobenzene	156	Compound Not Detected.					
	68 1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
	69 2-Chloro Toluene	91	Compound Not Detected.					
	70 4-Chloro Toluene	91	Compound Not Detected.					
	71 T-Butyl Benzene	119	Compound Not Detected.					
	72 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	73 S-Butyl Benzene	105	Compound Not Detected.					
	74 4-Isopropyl Toluene	119	Compound Not Detected.					
	75 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	76 d4-1,4-Dichlorobenzene	152	13.457	13.457	(1.000)	65261	50.0000	
	77 1,4-Dichlorobenzene	146	Compound Not Detected.					
	78 N-Butyl Benzene	91	Compound Not Detected.					
$	79 d4-1,2-Dichlorobenzene	152	13.899	13.909	(1.033)	60571	51.0263	35.094
	80 1,2-Dichlorobenzene	146	Compound Not Detected.					
	81 1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
	82 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	83 Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
	84 Naphthalene	128	Compound Not Detected.					
	85 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG79L.d
Lab Smp Id: RG79L
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18516

Calibration Date: 05-AUG-2010
Calibration Time: 10:49
Client Smp ID: PSB15-1.5-2-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	122713	-6.41
34 1,4-Difluorobenze	191559	95780	383118	184802	-3.53
52 d5-Chlorobenzene	161199	80600	322398	148626	-7.80
76 d4-1,4-Dichlorobe	88279	44140	176558	65261	-26.07

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.62	0.00
34 1,4-Difluorobenze	7.63	7.13	8.13	7.63	0.00
52 d5-Chlorobenzene	10.78	10.28	11.28	10.77	-0.09
76 d4-1,4-Dichlorobe	13.46	12.96	13.96	13.46	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: Floyd/Snider
Sample Matrix: SOLID
Lab Smp Id: RG79L
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18516

Client SDG: RG79
Fraction: VOA
Client Smp ID: PSB15-1.5-2-073010
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	56.220	112.44	30-160
$ 31 d4-1,2-Dichloroeth	50.000	61.752	123.50	75-152
$ 43 d8-Toluene	50.000	50.837	101.67	82-115
$ 62 4-Bromofluorobenze	50.000	46.535	93.07	64-120
$ 79 d4-1,2-Dichloroben	50.000	51.026	102.05	80-120

Data File: /chem1/finn5.i/05AUG10.b/RG79L.d

Date : 05-AUG-2010 18:37

Client ID: PSB15-1.5-2-073010

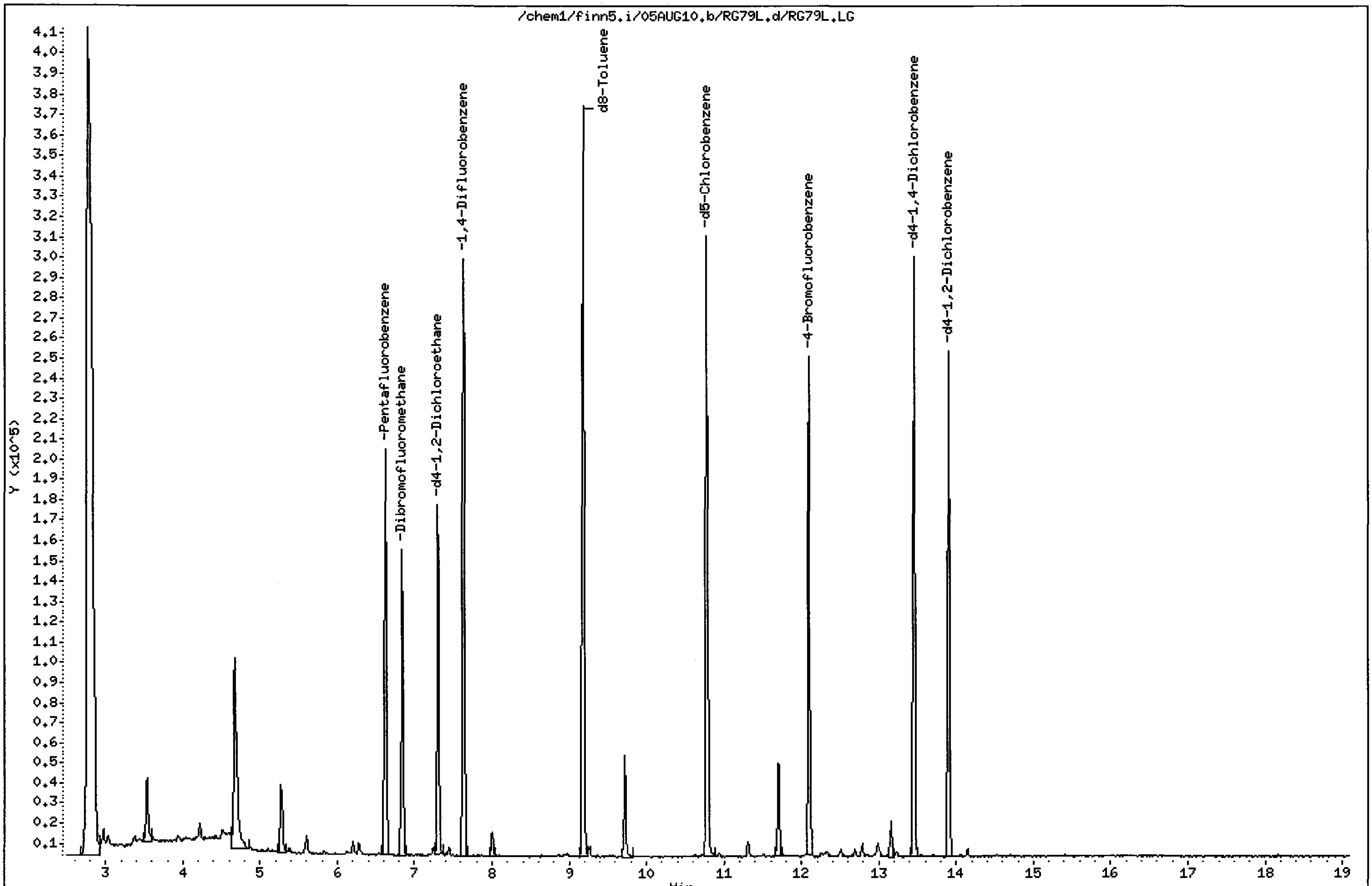
Sample Info: RG79L,5,7,27,0

Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB

Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/05AUG10.b/RG79M.d
Lab Smp Id: RG79M Client Smp ID: PSB15-2-4-073010
Inj Date : 05-AUG-2010 19:03
Operator : PB Inst ID: finn5.i
Smp Info : RG79M,5,9.46,0
Misc Info : 10-18517
Comment :
Method : /chem1/finn5.i/05AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:03 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	9.46000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.683	4.673	(0.706)	198236	272.388	143.97
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.286	5.266	(0.797)	16732	6.03213	3.188
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.291	6.271	(0.948)	10506	12.8295	6.781
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.633	6.623	(1.000)	130045	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.854	6.834	(1.033)	87293	56.3200	29.767(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.316	7.296	(1.103)	102838	60.6361	32.049
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	7.457	7.437	(0.975)	3168	0.50050	0.2645
*	34 1,4-Difluorobenzene	114	7.648	7.628	(1.000)	192759	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	9.196	9.176	(1.202)	218164	51.5091	27.225
	44 Toluene	92	9.276	9.266	(1.213)	3839	1.02224	0.5403
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	10.794	10.784	(1.000)	158368	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	10.954	10.934	(1.015)	1084	0.47215	0.2496(Q)
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	12.120	12.100	(1.123)	84342	45.5057	24.052
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
66	N-Propyl Benzene	91	Compound Not Detected.					
67	Bromobenzene	156	Compound Not Detected.					
68	1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
73	S-Butyl Benzene	105	Compound Not Detected.					
74	4-Isopropyl Toluene	119	13.246	13.236	(0.983)	2072	0.57500	0.3039
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	13.477	13.457	(1.000)	68286	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.919	13.909	(1.033)	62665	50.4518	26.666
80	1,2-Dichlorobenzene	146	Compound Not Detected.					
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	Compound Not Detected.					
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

nlq

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG79M.d
Lab Smp Id: RG79M
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18517

Calibration Date: 05-AUG-2010
Calibration Time: 10:49
Client Smp ID: PSB15-2-4-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	130045	-0.82
34 1,4-Difluorobenze	191559	95780	383118	192759	0.63
52 d5-Chlorobenzene	161199	80600	322398	158368	-1.76
76 d4-1,4-Dichlorobe	88279	44140	176558	68286	-22.65

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.63	0.15
34 1,4-Difluorobenze	7.63	7.13	8.13	7.65	0.26
52 d5-Chlorobenzene	10.78	10.28	11.28	10.79	0.09
76 d4-1,4-Dichlorobe	13.46	12.96	13.96	13.48	0.15

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: Floyd/Snider
Client SDG: RG79
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: RG79M
Client Smp ID: PSB15-2-4-073010
Level: LOW
Operator: PB
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: all.spk
Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18517

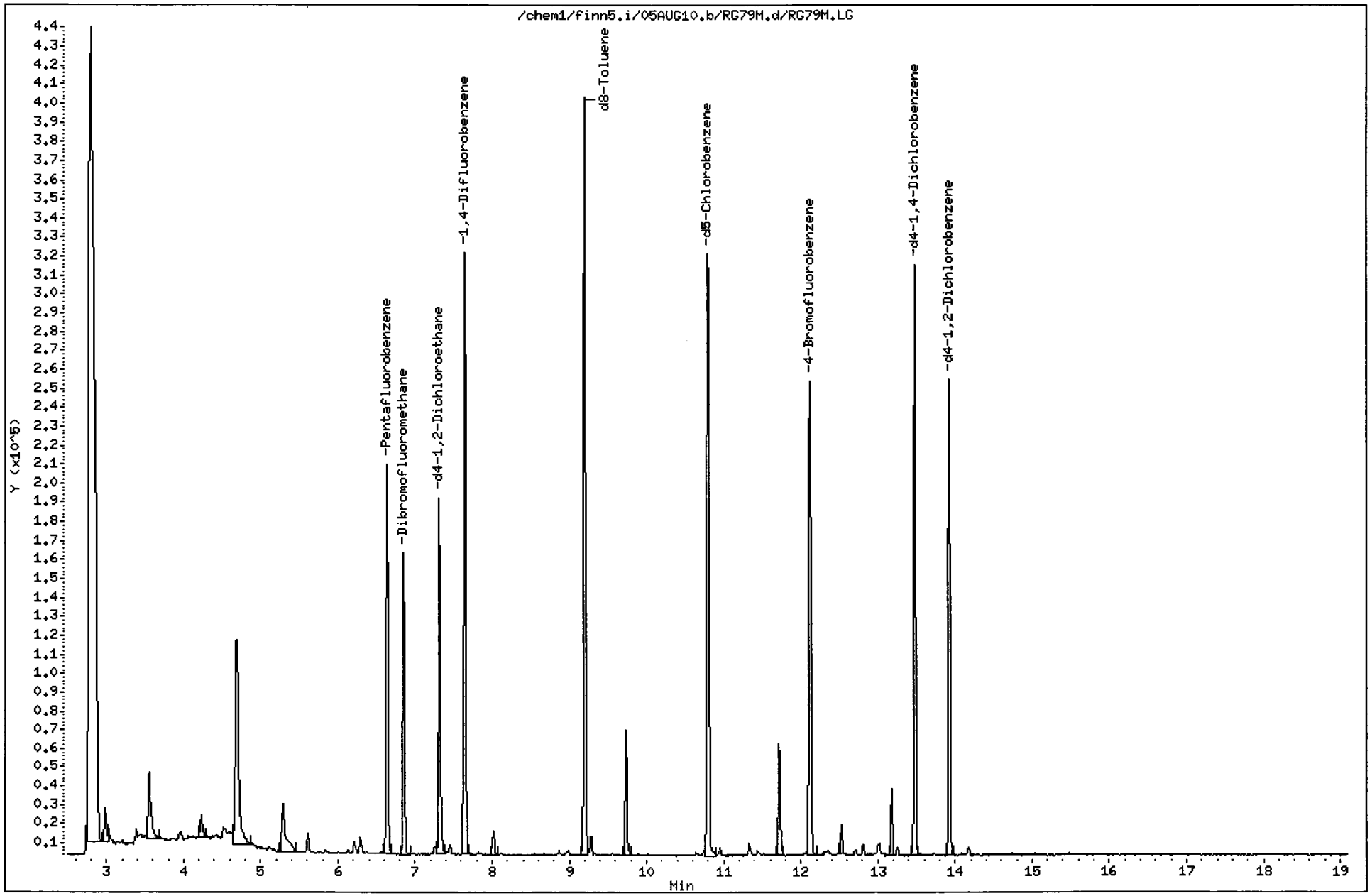
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	56.320	112.64	30-160
$ 31 d4-1,2-Dichloroeth	50.000	60.636	121.27	75-152
$ 43 d8-Toluene	50.000	51.509	103.02	82-115
$ 62 4-Bromofluorobenze	50.000	45.506	91.01	64-120
$ 79 d4-1,2-Dichloroben	50.000	50.452	100.90	80-120

Data File: /chem1/finn5.i/05AUG10.b/RG79M.d
Date : 05-AUG-2010 19:03
Client ID: PSB15-2-4-073010
Sample Info: RG79M,5,9.46,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



RG79-05AUG10

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/05AUG10.b/RG79N.d
Lab Smp Id: RG79N Client Smp ID: PSB15-4-6-073010
Inj Date : 05-AUG-2010 19:30
Operator : PB Inst ID: finn5.i
Smp Info : RG79N,5,10.52,0
Misc Info : 10-18518
Comment :
Method : /chem1/finn5.i/05AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:03 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	10.52000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.683	4.673	(0.706)	125267	172.031	81.764
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.276	5.266	(0.795)	14847	5.34968	2.543
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)	
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.						
	15 Carbon Disulfide	76	Compound Not Detected.						
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.						
	18 Vinyl Acetate	43	Compound Not Detected.						
	19 1,1-Dichloroethane	63	Compound Not Detected.						
	20 2-Butanone	43	6.291	6.271	(0.948)	7747	9.45523	4.494	
	21 2,2-Dichloropropane	77	Compound Not Detected.						
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.						
*	23 Pentafluorobenzene	168	6.633	6.623	(1.000)	130115	50.0000		
	24 Chloroform	83	Compound Not Detected.						
	26 Bromochloromethane	128	Compound Not Detected.						
$	25 Dibromofluoromethane	111	6.844	6.834	(1.032)	85779	55.3134	26.290(Q)	
	27 1,1,1-Trichloroethane	97	Compound Not Detected.						
	29 1,1-Dichloropropene	75	Compound Not Detected.						
	30 Carbon Tetrachloride	117	Compound Not Detected.						
$	31 d4-1,2-Dichloroethane	65	7.316	7.296	(1.103)	103688	61.1044	29.042	
	32 1,2-Dichloroethane	62	Compound Not Detected.						
	33 Benzene	78	7.447	7.437	(0.975)	3259	0.51428	0.2444	
*	34 1,4-Difluorobenzene	114	7.638	7.628	(1.000)	192981	50.0000		
	35 Trichloroethene	95	Compound Not Detected.						
	36 1,2-Dichloropropane	63	Compound Not Detected.						
	37 Bromodichloromethane	83	Compound Not Detected.						
	39 Dibromomethane	93	Compound Not Detected.						
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.						
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.						
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.						
$	43 d8-Toluene	98	9.196	9.176	(1.204)	220209	51.9321	24.682	
	44 Toluene	92	9.276	9.266	(1.214)	4741	1.26097	0.5993	
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.						
	46 2-Hexanone	43	Compound Not Detected.						
	47 1,1,2-Trichloroethane	97	Compound Not Detected.						
	48 1,3-Dichloropropane	76	Compound Not Detected.						
	49 Tetrachloroethene	166	Compound Not Detected.						
	50 Chlorodibromomethane	129	Compound Not Detected.						
	51 1,2-Dibromoethane	107	Compound Not Detected.						
*	52 d5-Chlorobenzene	117	10.794	10.784	(1.000)	165592	50.0000		
	53 Chlorobenzene	112	Compound Not Detected.						
	54 Ethyl Benzene	91	Compound Not Detected.						
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	56 m,p-xylene	106	10.944	10.934	(1.014)	1090	0.45405	0.2158	
	57 o-Xylene	106	Compound Not Detected.						
	58 Styrene	104	Compound Not Detected.						
	59 Isopropyl Benzene	105	Compound Not Detected.						
	60 Bromoform	173	Compound Not Detected.						
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
$	62 4-Bromofluorobenzene	95	12.110	12.100	(1.122)	93600	48.2976	22.955	
	63 1,2,3-Trichloropropane	110	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)	
65	Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.						
66	N-Propyl Benzene	91	Compound Not Detected.						
67	Bromobenzene	156	Compound Not Detected.						
68	1,3,5-Trimethyl Benzene	105	Compound Not Detected.						
69	2-Chloro Toluene	91	Compound Not Detected.						
70	4-Chloro Toluene	91	Compound Not Detected.						
71	T-Butyl Benzene	119	Compound Not Detected.						
72	1,2,4-Trimethylbenzene	105	Compound Not Detected.						
73	S-Butyl Benzene	105	Compound Not Detected.						
74	4-Isopropyl Toluene	119	13.246	13.236	(0.984)	2753	0.65392	0.3108	
75	1,3-Dichlorobenzene	146	Compound Not Detected.						
* 76	d4-1,4-Dichlorobenzene	152	13.467	13.457	(1.000)	79779	50.0000		
77	1,4-Dichlorobenzene	146	Compound Not Detected.						
78	N-Butyl Benzene	91	Compound Not Detected.						
$ 79	d4-1,2-Dichlorobenzene	152	13.919	13.909	(1.034)	72646	50.0618	23.794	
80	1,2-Dichlorobenzene	146	Compound Not Detected.						
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.						
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.						
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.						
84	Naphthalene	128	Compound Not Detected.						
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG79N.d
Lab Smp Id: RG79N
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18518

Calibration Date: 05-AUG-2010
Calibration Time: 10:49
Client Smp ID: PSB15-4-6-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	130115	-0.76
34 1,4-Difluorobenze	191559	95780	383118	192981	0.74
52 d5-Chlorobenzene	161199	80600	322398	165592	2.73
76 d4-1,4-Dichlorobe	88279	44140	176558	79779	-9.63

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.63	0.15
34 1,4-Difluorobenze	7.63	7.13	8.13	7.64	0.13
52 d5-Chlorobenzene	10.78	10.28	11.28	10.79	0.09
76 d4-1,4-Dichlorobe	13.46	12.96	13.96	13.47	0.07

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: Floyd/Snider
Client SDG: RG79
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: RG79N
Client Smp ID: PSB15-4-6-073010
Level: LOW
Operator: PB
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: all.spk
Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18518

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	55.313	110.63	30-160
$ 31 d4-1,2-Dichloroeth	50.000	61.104	122.21	75-152
$ 43 d8-Toluene	50.000	51.932	103.86	82-115
$ 62 4-Bromofluorobenze	50.000	48.298	96.60	64-120
$ 79 d4-1,2-Dichloroben	50.000	50.062	100.12	80-120

Data File: /chem1/finn5.i/05AUG10.b/RG79N.d

Date : 05-AUG-2010 19:30

Client ID: PSB15-4-6-073010

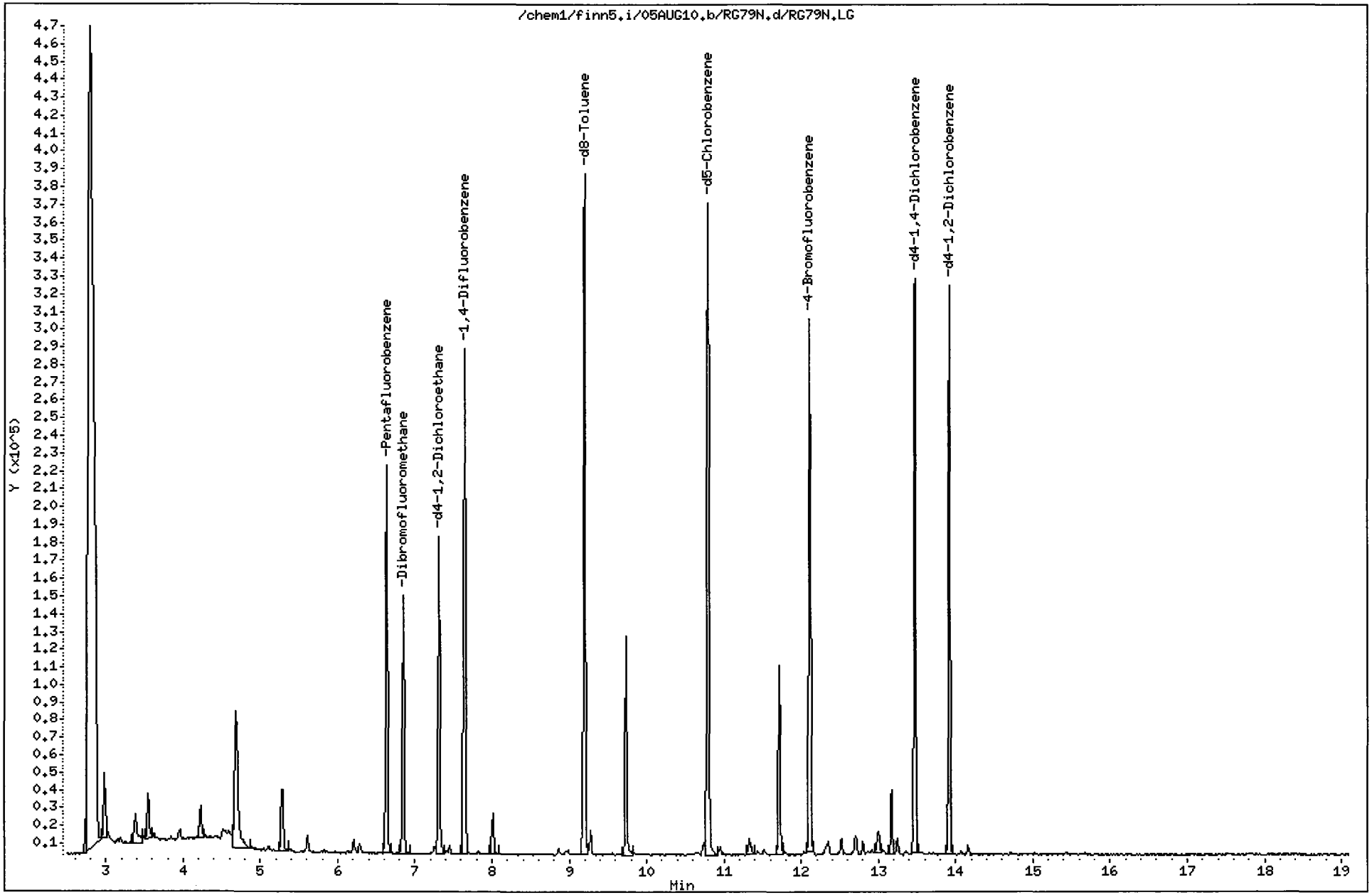
Sample Info: RG79N,5,10.52,0

Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB

Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/05AUG10.b/RG790.d
Lab Smp Id: RG790 Client Smp ID: PSB15-13-15-073010
Inj Date : 05-AUG-2010 19:56
Operator : PB Inst ID: finn5.i
Smp Info : RG790,5,9.47,0
Misc Info : 10-18519
Comment :
Method : /chem1/finn5.i/05AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:03 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	9.47000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.693	4.673	(0.706)	180354	255.923	135.12
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.286	5.266	(0.796)	11990	4.46396	2.357
14 Acrylonitrile	53	Compound Not Detected.					

		QUANT SIG				CONCENTRATIONS ON-COLUMN	FINAL	
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/Kg)	(ug/Kg)	
16	Methyl tert-Butyl Ether	73	Compound Not Detected.					
15	Carbon Disulfide	76	5.387	5.367	(0.811)	13740	1.85719	0.9806	
17	Trans-1,2-Dichloroethene	96	Compound Not Detected.						
18	Vinyl Acetate	43	Compound Not Detected.						
19	1,1-Dichloroethane	63	Compound Not Detected.						
20	2-Butanone	43	6.291	6.271	(0.947)	34577	43.6051	23.023	
21	2,2-Dichloropropane	77	Compound Not Detected.						
22	Cis-1,2-Dichloroethene	96	Compound Not Detected.						
* 23	Pentafluorobenzene	168	6.643	6.623	(1.000)	125926	50.0000		
24	Chloroform	83	Compound Not Detected.						
26	Bromochloromethane	128	Compound Not Detected.						
$ 25	Dibromofluoromethane	111	6.854	6.834	(1.032)	86952	57.9350	30.589	(Q)
27	1,1,1-Trichloroethane	97	Compound Not Detected.						
29	1,1-Dichloropropene	75	Compound Not Detected.						
30	Carbon Tetrachloride	117	Compound Not Detected.						
$ 31	d4-1,2-Dichloroethane	65	7.316	7.296	(1.101)	101638	61.8888	32.676	
32	1,2-Dichloroethane	62	Compound Not Detected.						
33	Benzene	78	7.457	7.437	(0.975)	5667	0.92450	0.4881	
* 34	1,4-Difluorobenzene	114	7.648	7.628	(1.000)	186673	50.0000		
35	Trichloroethene	95	Compound Not Detected.						
36	1,2-Dichloropropane	63	Compound Not Detected.						
37	Bromodichloromethane	83	Compound Not Detected.						
39	Dibromomethane	93	Compound Not Detected.						
40	2-Chloroethyl Vinyl Ether	63	Compound Not Detected.						
41	4-Methyl-2-Pentanone	58	Compound Not Detected.						
42	Cis 1,3-dichloropropene	75	Compound Not Detected.						
$ 43	d8-Toluene	98	9.196	9.176	(1.202)	202282	49.3164	26.038	
44	Toluene	92	9.276	9.266	(1.213)	4717	1.29698	0.6848	
45	Trans 1,3-Dichloropropene	75	Compound Not Detected.						
46	2-Hexanone	43	Compound Not Detected.						
47	1,1,2-Trichloroethane	97	Compound Not Detected.						
48	1,3-Dichloropropane	76	Compound Not Detected.						
49	Tetrachloroethene	166	Compound Not Detected.						
50	Chlorodibromomethane	129	Compound Not Detected.						
51	1,2-Dibromoethane	107	Compound Not Detected.						
* 52	d5-Chlorobenzene	117	10.794	10.784	(1.000)	135886	50.0000		
53	Chlorobenzene	112	Compound Not Detected.						
54	Ethyl Benzene	91	Compound Not Detected.						
55	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
56	m,p-xylene	106	10.954	10.934	(1.015)	1175	0.59646	0.3149	(Q)
57	o-Xylene	106	11.437	11.427	(1.060)	921	0.44984	0.2375	(Q)
58	Styrene	104	Compound Not Detected.						
59	Isopropyl Benzene	105	Compound Not Detected.						
60	Bromoform	173	Compound Not Detected.						
61	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
$ 62	4-Bromofluorobenzene	95	12.120	12.100	(1.123)	64868	40.7892	21.536	
63	1,2,3-Trichloropropane	110	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
66	N-Propyl Benzene	91	Compound Not Detected.					
67	Bromobenzene	156	Compound Not Detected.					
68	1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	12.904	12.894	(0.957)	1082	0.42762	0.2258
73	S-Butyl Benzene	105	Compound Not Detected.					
74	4-Isopropyl Toluene	119	13.246	13.236	(0.983)	1667	0.67157	0.3546
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	13.477	13.457	(1.000)	47038	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.919	13.909	(1.033)	40320	47.1254	24.881
80	1,2-Dichlorobenzene	146	Compound Not Detected.					
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	Compound Not Detected.					
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG790.d
Lab Smp Id: RG790
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18519

Calibration Date: 05-AUG-2010
Calibration Time: 10:49
Client Smp ID: PSB15-13-15-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	125926	-3.96
34 1,4-Difluorobenze	191559	95780	383118	186673	-2.55
52 d5-Chlorobenzene	161199	80600	322398	135886	-15.70
76 d4-1,4-Dichlorobe	88279	44140	176558	47038	-46.72

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.64	0.30
34 1,4-Difluorobenze	7.63	7.13	8.13	7.65	0.26
52 d5-Chlorobenzene	10.78	10.28	11.28	10.79	0.09
76 d4-1,4-Dichlorobe	13.46	12.96	13.96	13.48	0.15

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: Floyd/Snider
Sample Matrix: SOLID
Lab Smp Id: RG790
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18519

Client SDG: RG79
Fraction: VOA
Client Smp ID: PSB15-13-15-073010
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

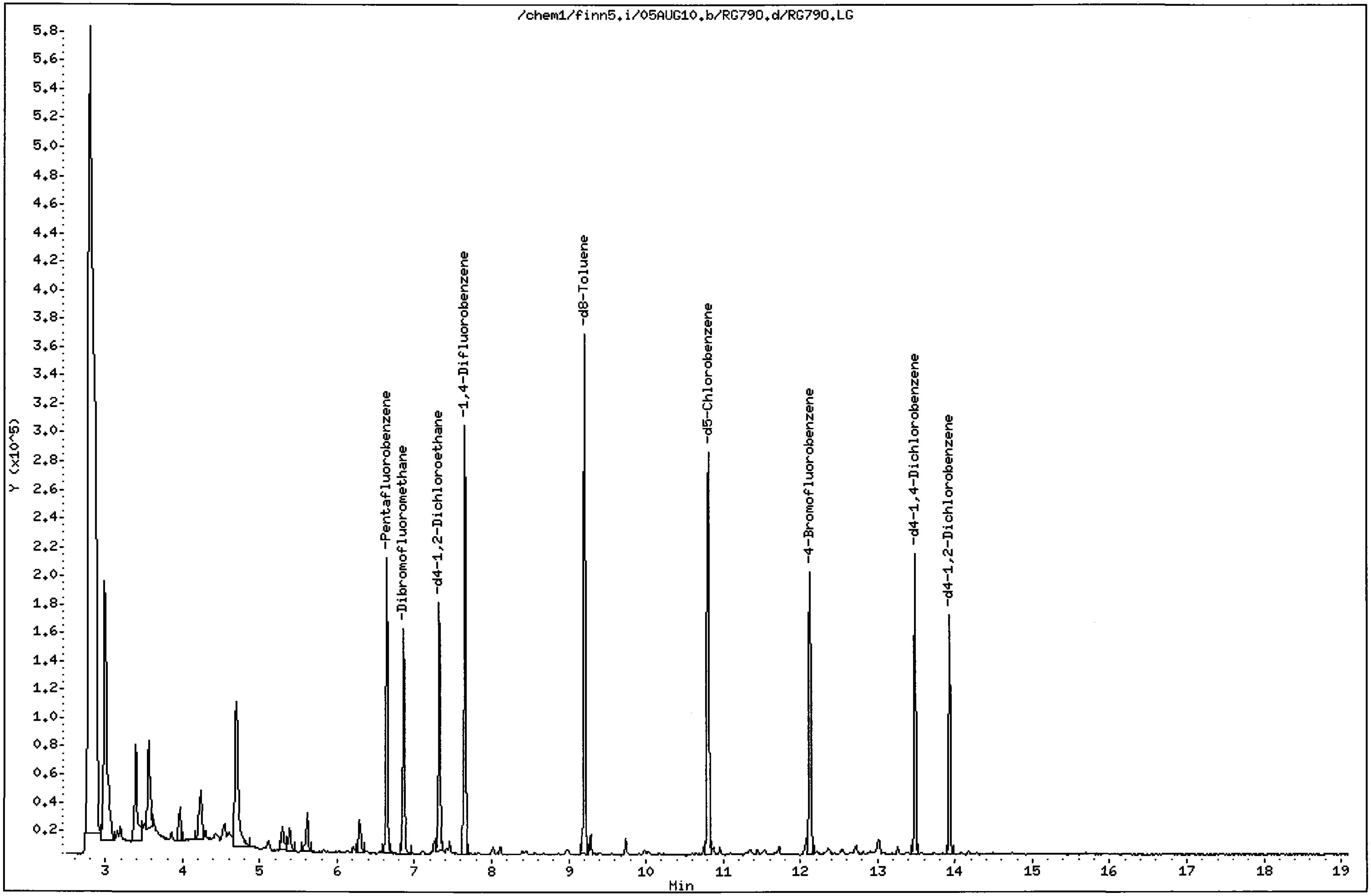
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	57.935	115.87	30-160
$ 31 d4-1,2-Dichloroeth	50.000	61.889	123.78	75-152
$ 43 d8-Toluene	50.000	49.316	98.63	82-115
$ 62 4-Bromofluorobenze	50.000	40.789	81.58	64-120
$ 79 d4-1,2-Dichloroben	50.000	47.125	94.25	80-120

Data File: /chem1/finn5.i/05AUG10.b/RG790.d
Date : 05-AUG-2010 19:56
Client ID: PSB15-13-15-073010
Sample Info: RG790,5,9.47,0

Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB
Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/05AUG10.b/RG79P.d
Lab Smp Id: RG79P Client Smp ID: PSB15-17-19-073010
Inj Date : 05-AUG-2010 20:23
Operator : PB Inst ID: finn5.i
Smp Info : RG79P,5,11.251,0
Misc Info : 10-18520
Comment :
Method : /chem1/finn5.i/05AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:03 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	11.25100	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.693	4.673	(0.706)	30135	41.7932	18.573
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	5.286	5.266	(0.796)	1867	0.67935	0.3019
14 Acrylonitrile	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15 Carbon Disulfide	76	5.387	5.367	(0.811)	6420	0.84812	0.3769
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.291	6.271	(0.947)	4937	6.08506	2.704
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.643	6.623	(1.000)	128844	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.854	6.834	(1.032)	84346	54.9259	24.409(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.316	7.296	(1.101)	97105	57.7894	25.682
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	7.457	7.437	(0.975)	14821	2.32642	1.034
*	34 1,4-Difluorobenzene	114	7.648	7.628	(1.000)	194009	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	9.196	9.176	(1.202)	217499	51.0212	22.674
	44 Toluene	92	9.286	9.266	(1.214)	1702	0.45028	0.2001
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	10.794	10.784	(1.000)	161230	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	Compound Not Detected.					
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	12.120	12.100	(1.123)	86239	45.7032	20.311
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
66	N-Propyl Benzene	91	Compound Not Detected.					
67	Bromobenzene	156	Compound Not Detected.					
68	1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
73	S-Butyl Benzene	105	Compound Not Detected.					
74	4-Isopropyl Toluene	119	Compound Not Detected.					
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	13.477	13.457	(1.000)	72905	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.919	13.909	(1.033)	66888	50.4399	22.416
80	1,2-Dichlorobenzene	146	Compound Not Detected.					
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	Compound Not Detected.					
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG79P.d
Lab Smp Id: RG79P
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18520

Calibration Date: 05-AUG-2010
Calibration Time: 10:49
Client Smp ID: PSB15-17-19-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	128844	-1.73
34 1,4-Difluorobenze	191559	95780	383118	194009	1.28
52 d5-Chlorobenzene	161199	80600	322398	161230	0.02
76 d4-1,4-Dichlorobe	88279	44140	176558	72905	-17.42

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.64	0.30
34 1,4-Difluorobenze	7.63	7.13	8.13	7.65	0.26
52 d5-Chlorobenzene	10.78	10.28	11.28	10.79	0.09
76 d4-1,4-Dichlorobe	13.46	12.96	13.96	13.48	0.15

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: Floyd/Snider
Client SDG: RG79
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: RG79P
Client Smp ID: PSB15-17-19-073010
Level: LOW
Operator: PB
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: all.spk
Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18520

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	54.926	109.85	30-160
$ 31 d4-1,2-Dichloroeth	50.000	57.789	115.58	75-152
$ 43 d8-Toluene	50.000	51.021	102.04	82-115
$ 62 4-Bromofluorobenze	50.000	45.703	91.41	64-120
$ 79 d4-1,2-Dichloroben	50.000	50.440	100.88	80-120

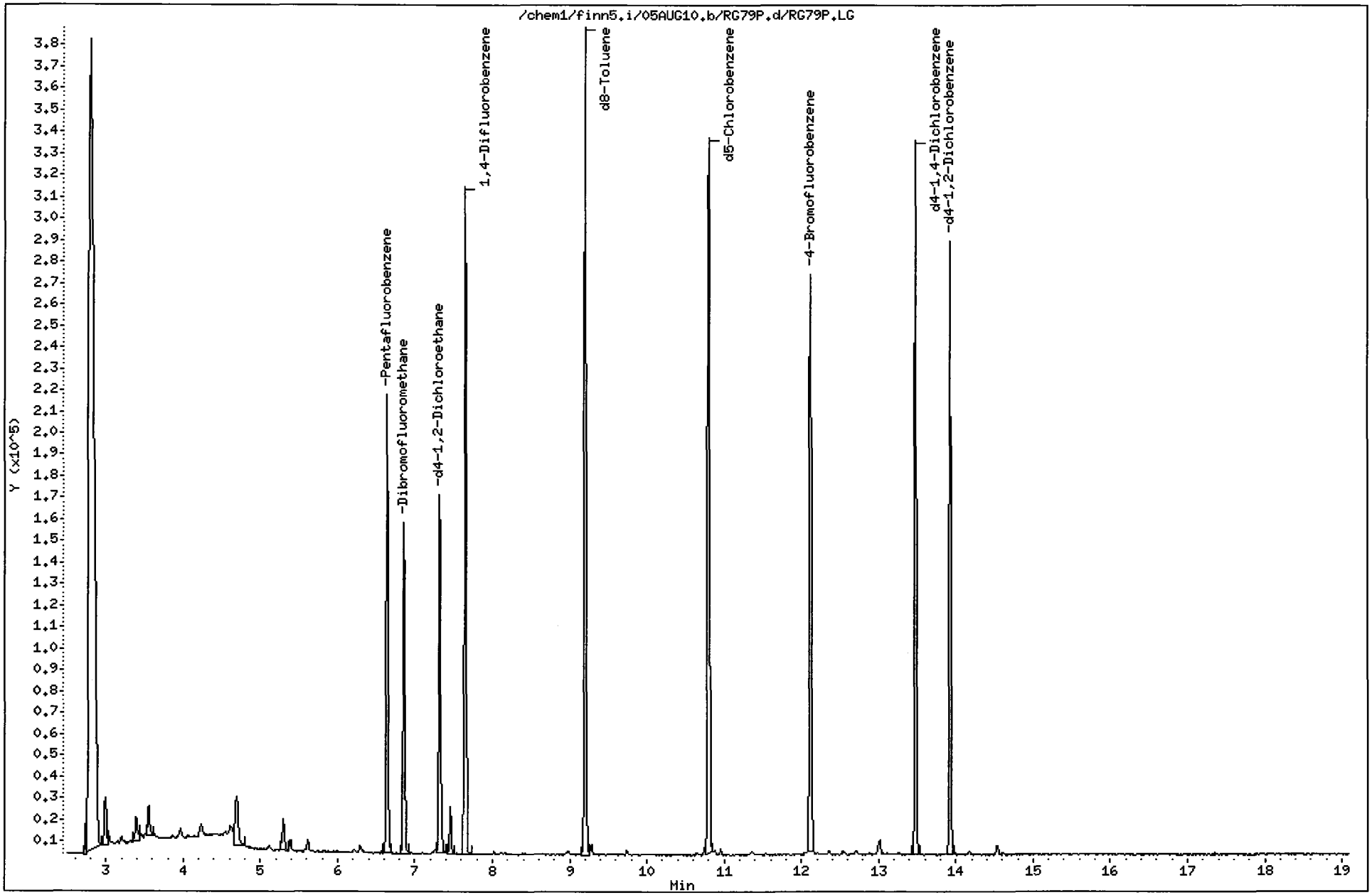
Data File: /chem1/finn5.i/05AUG10.b/RG79P.d
Date : 05-AUG-2010 20:23
Client ID: PSB15-17-19-073010
Sample Info: RG79P,5,11.251,0

Column phase: Rtx502.2

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

RG79:060510



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/05AUG10.b/RG79Q.d
Lab Smp Id: RG79Q Client Smp ID: PSB15-17-19-073010-
Inj Date : 05-AUG-2010 20:49
Operator : PB Inst ID: finn5.i
Smp Info : RG79Q,5,10.86,0
Misc Info : 10-18521
Comment :
Method : /chem1/finn5.i/05AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:03 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	10.86000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1	Dichlorodifluoromethane	85	Compound Not Detected.					
2	Chloromethane	50	Compound Not Detected.					
3	Vinyl Chloride	62	Compound Not Detected.					
4	Bromomethane	94	Compound Not Detected.					
5	Chloroethane	64	Compound Not Detected.					
6	Trichlorofluoromethane	101	Compound Not Detected.					
7	Acrolein	56	Compound Not Detected.					
8	112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9	Acetone	43	4.693	4.673	(0.708)	24195	33.5878	15.464
10	1,1-Dichloroethene	96	Compound Not Detected.					
11	Bromoethane	108	Compound Not Detected.					
12	Iodomethane	142	Compound Not Detected.					
13	Methylene Chloride	84	5.286	5.266	(0.797)	9578	3.48858	1.606
14	Acrylonitrile	53	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	16	Methyl tert-Butyl Ether	73	Compound Not Detected.					
	15	Carbon Disulfide	76	Compound Not Detected.					
	17	Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18	Vinyl Acetate	43	Compound Not Detected.					
	19	1,1-Dichloroethane	63	Compound Not Detected.					
	20	2-Butanone	43	6.291	6.271	(0.948)	2849	3.51492	1.618
	21	2,2-Dichloropropane	77	Compound Not Detected.					
	22	Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23	Pentafluorobenzene	168	6.633	6.623	(1.000)	128719	50.0000	
	24	Chloroform	83	Compound Not Detected.					
	26	Bromochloromethane	128	Compound Not Detected.					
$	25	Dibromofluoromethane	111	6.854	6.834	(1.033)	87840	57.2567	26.361(Q)
	27	1,1,1-Trichloroethane	97	Compound Not Detected.					
	29	1,1-Dichloropropene	75	Compound Not Detected.					
	30	Carbon Tetrachloride	117	Compound Not Detected.					
$	31	d4-1,2-Dichloroethane	65	7.316	7.296	(1.103)	108051	64.3661	29.634
	32	1,2-Dichloroethane	62	Compound Not Detected.					
	33	Benzene	78	Compound Not Detected.					
*	34	1,4-Difluorobenzene	114	7.648	7.628	(1.000)	194732	50.0000	
	35	Trichloroethene	95	Compound Not Detected.					
	36	1,2-Dichloropropane	63	Compound Not Detected.					
	37	Bromodichloromethane	83	Compound Not Detected.					
	39	Dibromomethane	93	Compound Not Detected.					
	40	2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41	4-Methyl-2-Pentanone	58	Compound Not Detected.					
	42	Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43	d8-Toluene	98	9.196	9.176	(1.202)	221254	51.7094	23.807
	44	Toluene	92	Compound Not Detected.					
	45	Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46	2-Hexanone	43	Compound Not Detected.					
	47	1,1,2-Trichloroethane	97	Compound Not Detected.					
	48	1,3-Dichloropropane	76	Compound Not Detected.					
	49	Tetrachloroethene	166	Compound Not Detected.					
	50	Chlorodibromomethane	129	Compound Not Detected.					
	51	1,2-Dibromoethane	107	Compound Not Detected.					
*	52	d5-Chlorobenzene	117	10.794	10.784	(1.000)	166677	50.0000	
	53	Chlorobenzene	112	Compound Not Detected.					
	54	Ethyl Benzene	91	Compound Not Detected.					
	55	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56	m,p-xylene	106	Compound Not Detected.					
	57	o-Xylene	106	Compound Not Detected.					
	58	Styrene	104	Compound Not Detected.					
	59	Isopropyl Benzene	105	Compound Not Detected.					
	60	Bromoform	173	Compound Not Detected.					
	61	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62	4-Bromofluorobenzene	95	12.110	12.100	(1.122)	95593	49.0049	22.562
	63	1,2,3-Trichloropropane	110	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					
66	N-Propyl Benzene	91	Compound Not Detected.					
67	Bromobenzene	156	Compound Not Detected.					
68	1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
69	2-Chloro Toluene	91	Compound Not Detected.					
70	4-Chloro Toluene	91	Compound Not Detected.					
71	T-Butyl Benzene	119	Compound Not Detected.					
72	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
73	S-Butyl Benzene	105	Compound Not Detected.					
74	4-Isopropyl Toluene	119	Compound Not Detected.					
75	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 76	d4-1,4-Dichlorobenzene	152	13.477	13.457	(1.000)	86257	50.0000	
77	1,4-Dichlorobenzene	146	Compound Not Detected.					
78	N-Butyl Benzene	91	Compound Not Detected.					
$ 79	d4-1,2-Dichlorobenzene	152	13.919	13.909	(1.033)	78800	50.2245	23.124
80	1,2-Dichlorobenzene	146	Compound Not Detected.					
81	1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
82	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
83	Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
84	Naphthalene	128	Compound Not Detected.					
85	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG79Q.d
Lab Smp Id: RG79Q
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18521

Calibration Date: 05-AUG-2010
Calibration Time: 10:49
Client Smp ID: PSB15-17-19-073010-
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	128719	-1.83
34 1,4-Difluorobenze	191559	95780	383118	194732	1.66
52 d5-Chlorobenzene	161199	80600	322398	166677	3.40
76 d4-1,4-Dichlorobe	88279	44140	176558	86257	-2.29

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.63	0.15
34 1,4-Difluorobenze	7.63	7.13	8.13	7.65	0.26
52 d5-Chlorobenzene	10.78	10.28	11.28	10.79	0.09
76 d4-1,4-Dichlorobe	13.46	12.96	13.96	13.48	0.15

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: Floyd/Snider
Client SDG: RG79
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: RG79Q
Client Smp ID: PSB15-17-19-073010-
Level: LOW
Operator: PB
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: all.spk
Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18521

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	57.257	114.51	30-160
$ 31 d4-1,2-Dichloroeth	50.000	64.366	128.73	75-152
$ 43 d8-Toluene	50.000	51.709	103.42	82-115
$ 62 4-Bromofluorobenze	50.000	49.005	98.01	64-120
$ 79 d4-1,2-Dichloroben	50.000	50.224	100.45	80-120

Data File: /chem1/finn5.i/05AUG10.b/RG79Q.d

Date : 05-AUG-2010 20:49

Client ID: PSB15-17-19-073010-

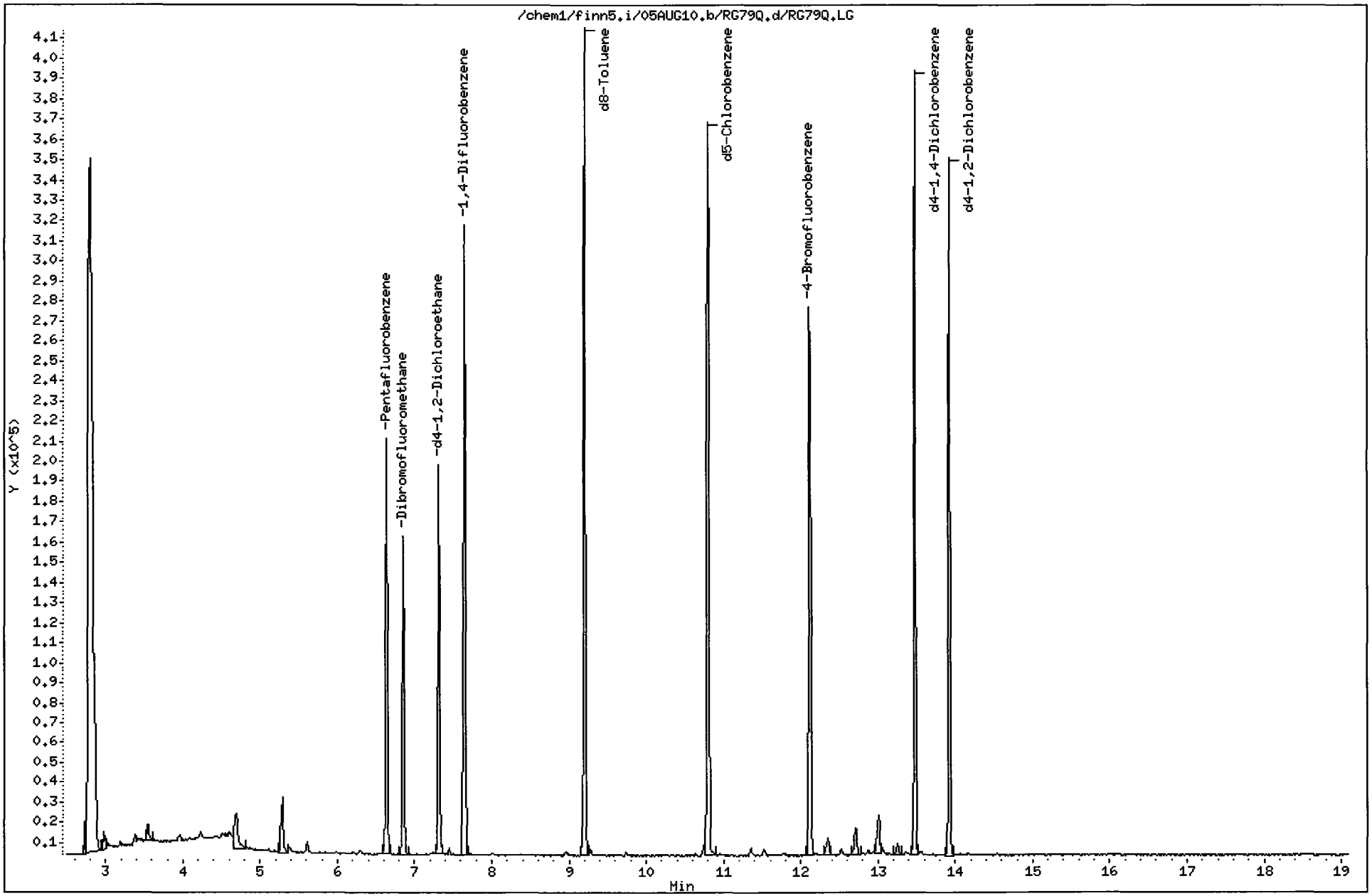
Sample Info: RG79Q,5,10.86,0

Instrument: finn5.i

Operator: PB

Column phase: Rtx502.2

Column diameter: 0.18



Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/05AUG10.b/RG79S.d
Lab Smp Id: RG79S Client Smp ID: PB15-TB
Inj Date : 05-AUG-2010 22:08
Operator : PB Inst ID: finn5.i
Smp Info : RG79S,5,5,0
Misc Info : 10-18523
Comment :
Method : /chem1/finn5.i/05AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:03 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	PurgeVolume (mL)
Sa	0.00000	SampleAmount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/L)
1 Dichlorodifluoromethane	85	Compound Not Detected.					
2 Chloromethane	50	Compound Not Detected.					
3 Vinyl Chloride	62	Compound Not Detected.					
4 Bromomethane	94	Compound Not Detected.					
5 Chloroethane	64	Compound Not Detected.					
6 Trichlorofluoromethane	101	Compound Not Detected.					
7 Acrolein	56	Compound Not Detected.					
8 112Trichloro122Trifluoroethane	101	Compound Not Detected.					
9 Acetone	43	4.683	4.673	(0.706)	4817	6.46779	6.468
10 1,1-Dichloroethene	96	Compound Not Detected.					
11 Bromoethane	108	Compound Not Detected.					
12 Iodomethane	142	Compound Not Detected.					
13 Methylene Chloride	84	Compound Not Detected.					
14 Acrylonitrile	53	Compound Not Detected.					
16 Methyl tert-Butyl Ether	73	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/L)
	15 Carbon Disulfide	76	Compound Not Detected.					
	17 Trans-1,2-Dichloroethene	96	Compound Not Detected.					
	18 Vinyl Acetate	43	Compound Not Detected.					
	19 1,1-Dichloroethane	63	Compound Not Detected.					
	20 2-Butanone	43	6.291	6.271	(0.948)	3337	3.98201	3.982
	21 2,2-Dichloropropane	77	Compound Not Detected.					
	22 Cis-1,2-Dichloroethene	96	Compound Not Detected.					
*	23 Pentafluorobenzene	168	6.633	6.623	(1.000)	133082	50.0000	
	24 Chloroform	83	Compound Not Detected.					
	26 Bromochloromethane	128	Compound Not Detected.					
$	25 Dibromofluoromethane	111	6.844	6.834	(1.032)	85289	53.7713	53.771(Q)
	27 1,1,1-Trichloroethane	97	Compound Not Detected.					
	29 1,1-Dichloropropene	75	Compound Not Detected.					
	30 Carbon Tetrachloride	117	Compound Not Detected.					
$	31 d4-1,2-Dichloroethane	65	7.316	7.296	(1.103)	95584	55.0728	55.073
	32 1,2-Dichloroethane	62	Compound Not Detected.					
	33 Benzene	78	Compound Not Detected.					
*	34 1,4-Difluorobenzene	114	7.638	7.628	(1.000)	196958	50.0000	
	35 Trichloroethene	95	Compound Not Detected.					
	36 1,2-Dichloropropane	63	Compound Not Detected.					
	37 Bromodichloromethane	83	Compound Not Detected.					
	39 Dibromomethane	93	Compound Not Detected.					
	40 2-Chloroethyl Vinyl Ether	63	Compound Not Detected.					
	41 4-Methyl-2-Pentanone	58	8.663	8.653	(1.134)	1380	2.65048	2.650
	42 Cis 1,3-dichloropropene	75	Compound Not Detected.					
$	43 d8-Toluene	98	9.196	9.176	(1.204)	221184	51.1088	51.109
	44 Toluene	92	Compound Not Detected.					
	45 Trans 1,3-Dichloropropene	75	Compound Not Detected.					
	46 2-Hexanone	43	Compound Not Detected.					
	47 1,1,2-Trichloroethane	97	Compound Not Detected.					
	48 1,3-Dichloropropane	76	Compound Not Detected.					
	49 Tetrachloroethene	166	Compound Not Detected.					
	50 Chlorodibromomethane	129	Compound Not Detected.					
	51 1,2-Dibromoethane	107	Compound Not Detected.					
*	52 d5-Chlorobenzene	117	10.794	10.784	(1.000)	163115	50.0000	
	53 Chlorobenzene	112	Compound Not Detected.					
	54 Ethyl Benzene	91	Compound Not Detected.					
	55 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
	56 m,p-xylene	106	Compound Not Detected.					
	57 o-Xylene	106	Compound Not Detected.					
	58 Styrene	104	Compound Not Detected.					
	59 Isopropyl Benzene	105	Compound Not Detected.					
	60 Bromoform	173	Compound Not Detected.					
	61 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
$	62 4-Bromofluorobenzene	95	12.110	12.100	(1.122)	88558	46.3898	46.390
	63 1,2,3-Trichloropropane	110	Compound Not Detected.					
	65 Trans-1,4-Dichloro 2-Butene	53	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/L)
	66 N-Propyl Benzene	91	Compound Not Detected.					
	67 Bromobenzene	156	Compound Not Detected.					
	68 1,3,5-Trimethyl Benzene	105	Compound Not Detected.					
	69 2-Chloro Toluene	91	Compound Not Detected.					
	70 4-Chloro Toluene	91	Compound Not Detected.					
	71 T-Butyl Benzene	119	Compound Not Detected.					
	72 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	73 S-Butyl Benzene	105	Compound Not Detected.					
	74 4-Isopropyl Toluene	119	Compound Not Detected.					
	75 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	76 d4-1,4-Dichlorobenzene	152	13.467	13.457	(1.000)	79082	50.0000	
	77 1,4-Dichlorobenzene	146	Compound Not Detected.					
	78 N-Butyl Benzene	91	Compound Not Detected.					
$	79 d4-1,2-Dichlorobenzene	152	13.919	13.909	(1.034)	72368	50.3098	50.310
	80 1,2-Dichlorobenzene	146	Compound Not Detected.					
	81 1,2-Dibromo 3-Chloropropane	75	Compound Not Detected.					
	82 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	83 Hexachloro 1,3-Butadiene	225	Compound Not Detected.					
	84 Naphthalene	128	Compound Not Detected.					
	85 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG79S.d
Lab Smp Id: RG79S
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18523

Calibration Date: 05-AUG-2010
Calibration Time: 10:49
Client Smp ID: PB15-TB
Level: LOW
Sample Type: Water

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	133082	1.50
34 1,4-Difluorobenze	191559	95780	383118	196958	2.82
52 d5-Chlorobenzene	161199	80600	322398	163115	1.19
76 d4-1,4-Dichlorobe	88279	44140	176558	79082	-10.42

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.63	0.15
34 1,4-Difluorobenze	7.63	7.13	8.13	7.64	0.13
52 d5-Chlorobenzene	10.78	10.28	11.28	10.79	0.09
76 d4-1,4-Dichlorobe	13.46	12.96	13.96	13.47	0.07

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: Floyd/Snider
Sample Matrix: LIQUID
Lab Smp Id: RG79S
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18523

Client SDG: RG79
Fraction: VOA
Client Smp ID: PB15-TB
Operator: PB
SampleType: SAMPLE
Quant Type: ISTD

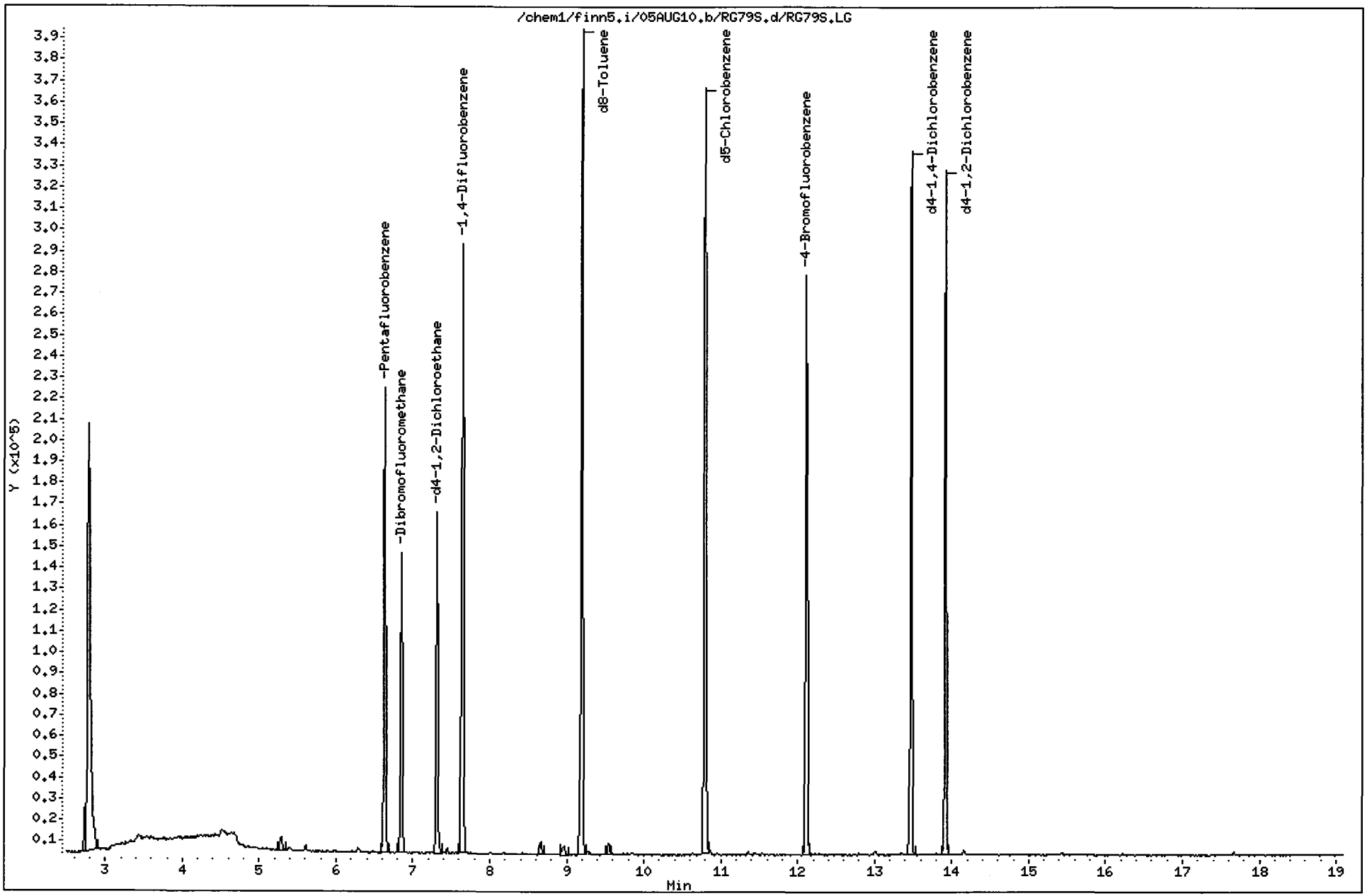
SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	53.771	107.54	30-160
$ 31 d4-1,2-Dichloroeth	50.000	55.073	110.15	75-152
$ 43 d8-Toluene	50.000	51.109	102.22	82-115
$ 62 4-Bromofluorobenze	50.000	46.390	92.78	71-120
$ 79 d4-1,2-Dichloroben	50.000	50.310	100.62	80-121

Data File: /chem1/finn5.i/05AUG10.b/RG79S.d
Date : 05-AUG-2010 22:08
Client ID: PB15-TB
Sample Info: RG79S,5,5,0

Instrument: finn5.i

Operator: PB
Column diameter: 0.18

Column phase: Rtx502.2



RG79:005522

Analytical Resources, Inc.

8260C

Data file : /chem1/finn5.i/05AUG10.b/RG79EMS.d
Lab Smp Id: RG79EMS Client Smp ID: PSB11-4-6-07301 MS
Inj Date : 05-AUG-2010 21:16
Operator : PB Inst ID: finn5.i
Smp Info : RG79EMS,5,8.63,0
Misc Info : 10-18509
Comment :
Method : /chem1/finn5.i/05AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:03 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	8.63000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	3.025	3.005	(0.455)	99200	51.0051	29.551
2 Chloromethane	50	3.327	3.306	(0.501)	246990	47.2002	27.346
3 Vinyl Chloride	62	3.437	3.417	(0.517)	214334	51.7963	30.009
4 Bromomethane	94	3.930	3.909	(0.592)	137906	61.3665	35.554
5 Chloroethane	64	4.000	3.970	(0.602)	134447	49.7522	28.825
6 Trichlorofluoromethane	101	4.261	4.231	(0.641)	188041	47.0180	27.241
7 Acrolein	56	4.643	4.623	(0.699)	47298	94.8082	54.929(R)
8 112Trichloro122Trifluoroethane	101	4.653	4.633	(0.700)	139312	44.4938	25.778
9 Acetone	43	4.693	4.673	(0.706)	328763	391.672	226.92(R)
10 1,1-Dichloroethene	96	4.854	4.834	(0.731)	135896	47.8299	27.711
11 Bromoethane	108	5.075	5.055	(0.764)	107068	50.8864	29.482
12 Iodomethane	142	5.176	5.156	(0.779)	198350	59.0447	34.209
13 Methylene Chloride	84	5.286	5.266	(0.796)	151668	47.4079	27.467
14 Acrylonitrile	53	5.367	5.347	(0.808)	44397	59.9069	34.708(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.417	5.387	(0.815)	196974	45.0817	26.119(Q)
	15 Carbon Disulfide	76	5.397	5.367	(0.812)	479349	54.3973	31.516
	17 Trans-1,2-Dichloroethene	96	5.578	5.548	(0.840)	110088	45.4657	26.342
	18 Vinyl Acetate	43	5.899	5.869	(0.888)	174656	41.1844	23.861
	19 1,1-Dichloroethane	63	5.950	5.929	(0.896)	207129	46.4994	26.940
	20 2-Butanone	43	6.301	6.271	(0.949)	289159	306.156	177.38(R)
	21 2,2-Dichloropropane	77	6.472	6.452	(0.974)	104061	38.1778	22.119
	22 Cis-1,2-Dichloroethene	96	6.512	6.492	(0.980)	91182	42.7262	24.754
*	23 Pentafluorobenzene	168	6.643	6.623	(1.000)	149989	50.0000	
	24 Chloroform	83	6.663	6.633	(1.003)	150072	41.4765	24.030
	26 Bromochloromethane	128	6.824	6.804	(1.027)	44881	44.2950	25.663
$	25 Dibromofluoromethane	111	6.854	6.834	(1.032)	93177	52.1226	30.198(Q)
	27 1,1,1-Trichloroethane	97	7.045	7.025	(1.060)	107763	38.2928	22.186(R)
	29 1,1-Dichloropropene	75	7.196	7.176	(0.941)	114787	39.0924	22.649(R)
	30 Carbon Tetrachloride	117	7.306	7.286	(0.955)	95781	37.5116	21.733(R)
$	31 d4-1,2-Dichloroethane	65	7.326	7.296	(1.103)	104097	53.2169	30.832
	32 1,2-Dichloroethane	62	7.407	7.387	(0.968)	100498	38.9873	22.588
	33 Benzene	78	7.457	7.437	(0.975)	300356	42.3019	24.509
*	34 1,4-Difluorobenzene	114	7.648	7.628	(1.000)	216227	50.0000	
	35 Trichloroethene	95	8.020	8.000	(1.049)	72855	35.0216	20.290(R)
	36 1,2-Dichloropropane	63	8.181	8.161	(1.070)	83986	37.5237	21.740(R)
	37 Bromodichloromethane	83	8.422	8.402	(1.101)	82863	34.6272	20.062(R)
	39 Dibromomethane	93	8.492	8.472	(1.110)	41582	37.4257	21.683(R)
	40 2-Chloroethyl Vinyl Ether	63	8.673	8.613	(1.134)	302	0.38529	0.2232(QR)
	41 4-Methyl-2-Pentanone	58	8.673	8.653	(1.134)	128482	224.777	130.23(Q)
	42 Cis 1,3-dichloropropene	75	8.924	8.904	(1.167)	82315	31.5061	18.254(R)
$	43 d8-Toluene	98	9.196	9.176	(1.202)	230525	48.5203	28.111
	44 Toluene	92	9.286	9.266	(1.214)	135070	32.0625	18.576(R)
	45 Trans 1,3-Dichloropropene	75	9.417	9.397	(1.231)	54830	24.9671	14.465(R)
	46 2-Hexanone	43	9.547	9.527	(0.884)	247889	193.260	111.97
	47 1,1,2-Trichloroethane	97	9.598	9.578	(1.255)	42680	32.5431	18.855(R)
	48 1,3-Dichloropropane	76	9.859	9.839	(0.913)	78000	35.3188	20.463(R)
	49 Tetrachloroethene	166	9.970	9.949	(0.923)	54500	31.2625	18.113(R)
	50 Chlorodibromomethane	129	10.181	10.161	(0.942)	44949	30.2550	17.529(R)
	51 1,2-Dibromoethane	107	10.402	10.382	(1.360)	37028	26.3586	15.272(R)
*	52 d5-Chlorobenzene	117	10.804	10.784	(1.000)	156912	50.0000	
	53 Chlorobenzene	112	10.844	10.824	(1.004)	88165	23.9555	13.879(R)
	54 Ethyl Benzene	91	10.874	10.854	(1.006)	189884	30.5096	17.676(R)
	55 1,1,1,2-Tetrachloroethane	131	10.864	10.844	(1.006)	37541	26.6519	15.441(R)
	56 m,p-xylene	106	10.954	10.934	(1.014)	134841	59.2766	34.343(R)
	57 o-Xylene	106	11.447	11.427	(1.060)	63479	26.8501	15.556(R)
	58 Styrene	104	11.477	11.457	(1.062)	64211	17.5656	10.177(R)
	59 Isopropyl Benzene	105	11.829	11.809	(0.878)	158435	38.0853	22.066(R)
	60 Bromoform	173	11.889	11.869	(0.882)	20770	31.0530	17.991
	61 1,1,2,2-Tetrachloroethane	83	12.000	11.980	(0.890)	40014	33.2941	19.290(R)
$	62 4-Bromofluorobenzene	95	12.120	12.100	(1.122)	79286	43.1747	25.014
	63 1,2,3-Trichloropropane	110	12.171	12.150	(0.903)	8532	35.8344	20.762(QR)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	65 Trans-1,4-Dichloro 2-Butene	53	12.221	12.201	(0.907)	11460	31.0246	17.975(R)
	66 N-Propyl Benzene	91	12.281	12.261	(0.911)	163268	30.4024	17.614(R)
	67 Bromobenzene	156	12.372	12.351	(0.918)	24328	20.9779	12.154(R)
	68 1,3,5-Trimethyl Benzene	105	12.452	12.432	(0.924)	96305	28.5190	16.523(R)
	69 2-Chloro Toluene	91	12.512	12.492	(0.928)	91975	26.0654	15.102(R)
	70 4-Chloro Toluene	91	12.552	12.532	(0.931)	76656	22.6634	13.131(R)
	71 T-Butyl Benzene	119	12.864	12.844	(0.954)	88885	30.7674	17.826(R)
	72 1,2,4-Trimethylbenzene	105	12.914	12.894	(0.958)	85673	25.7717	14.931(R)
	73 S-Butyl Benzene	105	13.105	13.085	(0.972)	121770	25.6207	14.844(R)
	74 4-Isopropyl Toluene	119	13.256	13.236	(0.984)	80990	24.8346	14.388(R)
	75 1,3-Dichlorobenzene	146	13.407	13.387	(0.995)	30572	15.4303	8.940(R)
*	76 d4-1,4-Dichlorobenzene	152	13.477	13.457	(1.000)	61799	50.0000	
	77 1,4-Dichlorobenzene	146	13.517	13.497	(1.003)	28319	14.2837	8.276(R)
	78 N-Butyl Benzene	91	13.728	13.708	(1.019)	68659	19.4966	11.296(R)
$	79 d4-1,2-Dichlorobenzene	152	13.929	13.909	(1.034)	55528	49.3985	28.620
	80 1,2-Dichlorobenzene	146	13.959	13.939	(1.036)	26607	14.1301	8.187(R)
	81 1,2-Dibromo 3-Chloropropane	75	14.864	14.844	(1.103)	3810	18.3207	10.614(R)
	82 1,2,4-Trichlorobenzene	180	15.909	15.889	(1.180)	6545	5.71178	3.309(R)
	83 Hexachloro 1,3-Butadiene	225	16.060	16.040	(1.192)	5942	7.69928	4.461(R)
	84 Naphthalene	128	16.231	16.211	(1.204)	11803	5.67894	3.290(R)
	85 1,2,3-Trichlorobenzene	180	16.522	16.502	(1.226)	5088	4.64437	2.691(R)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG79EMS.d
Lab Smp Id: RG79EMS
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18509

Calibration Date: 05-AUG-2010
Calibration Time: 10:49
Client Smp ID: PSB11-4-6-07301 MS
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	131115	65558	262230	149989	14.39
34 1,4-Difluorobenze	191559	95780	383118	216227	12.88
52 d5-Chlorobenzene	161199	80600	322398	156912	-2.66
76 d4-1,4-Dichlorobe	88279	44140	176558	61799	-30.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.64	0.30
34 1,4-Difluorobenze	7.63	7.13	8.13	7.65	0.26
52 d5-Chlorobenzene	10.78	10.28	11.28	10.80	0.19
76 d4-1,4-Dichlorobe	13.46	12.96	13.96	13.48	0.15

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: Floyd/Snider
Client SDG: RG79
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: RG79EMS
Client Smp ID: PSB11-4-6-07301 MS
Level: LOW
Operator: PB
Data Type: MS DATA
SampleType: MS
SpikeList File: all.spk
Quant Type: ISTD
Sublist File: voa.sub
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18509

SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
1	Dichlorodifluorome	28.969	29.551	102.01	53-148
2	Chloromethane	28.969	27.346	94.40	64-125
3	Vinyl Chloride	28.969	30.009	103.59	63-137
4	Bromomethane	28.969	35.554	122.73	57-136
5	Chloroethane	28.969	28.825	99.50	64-131
6	Trichlorofluoromet	28.969	27.241	94.04	69-132
7	Acrolein	144.84	54.929	37.92*	54-137
8	112Trichloro122Tri	28.969	25.778	88.99	74-130
9	Acetone	144.84	226.92	156.67*	60-131
10	1,1-Dichloroethene	28.969	27.711	95.66	75-126
11	Bromoethane	28.969	29.482	101.77	76-126
12	Iodomethane	28.969	34.209	118.09	65-139
13	Methylene Chloride	28.969	27.467	94.82	70-123
15	Carbon Disulfide	28.969	31.516	108.79	71-129
14	Acrylonitrile	28.969	34.708	119.81	67-125
16	Methyl tert-Butyl	28.969	26.119	90.16	70-120
17	Trans-1,2-Dichloro	28.969	26.342	90.93	80-120
18	Vinyl Acetate	28.969	23.861	82.37	60-136
19	1,1-Dichloroethane	28.969	26.940	93.00	80-120
20	2-Butanone	144.84	177.38	122.46*	70-120
21	2,2-Dichloropropan	28.969	22.119	76.36	74-123
22	Cis-1,2-Dichloroet	28.969	24.754	85.45	80-120
24	Chloroform	28.969	24.030	82.95	80-120
26	Bromochloromethane	28.969	25.663	88.59	80-120
27	1,1,1-Trichloroeth	28.969	22.186	76.59*	77-121
29	1,1-Dichloropropen	28.969	22.649	78.18*	80-120
30	Carbon Tetrachlori	28.969	21.733	75.02*	77-122
32	1,2-Dichloroethane	28.969	22.588	77.97	76-120
33	Benzene	28.969	24.509	84.60	80-120
35	Trichloroethene	28.969	20.290	70.04*	80-120
36	1,2-Dichloropropan	28.969	21.740	75.05*	80-120
37	Bromodichlorometha	28.969	20.062	69.25*	77-121
39	Dibromomethane	28.969	21.683	74.85*	80-120

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	28.969	0.2232	0.77*	10-191
41 4-Methyl-2-Pentano	144.84	130.23	89.91	67-120
42 Cis 1,3-dichloropr	28.969	18.254	63.01*	74-120
44 Toluene	28.969	18.576	64.12*	80-120
45 Trans 1,3-Dichloro	28.969	14.465	49.93*	65-120
46 2-Hexanone	144.84	111.97	77.30	65-130
47 1,1,2-Trichloroeth	28.969	18.855	65.09*	80-120
48 1,3-Dichloropropan	28.969	20.463	70.64*	80-120
49 Tetrachloroethene	28.969	18.113	62.53*	80-121
50 Chlorodibromometha	28.969	17.529	60.51*	64-120
51 1,2-Dibromoethane	28.969	15.272	52.72*	75-120
53 Chlorobenzene	28.969	13.879	47.91*	80-120
55 1,1,1,2-Tetrachlor	28.969	15.441	53.30*	69-121
54 Ethyl Benzene	28.969	17.676	61.02*	80-127
56 m,p-xylene	57.937	34.343	59.28*	80-125
57 o-Xylene	28.969	15.556	53.70*	78-120
58 Styrene	28.969	10.177	35.13*	80-123
59 Isopropyl Benzene	28.969	22.066	76.17*	80-127
60 Bromoform	28.969	17.991	62.11	60-120
61 1,1,2,2-Tetrachlor	28.969	19.290	66.59*	74-120
63 1,2,3-Trichloropro	28.969	20.762	71.67*	72-121
65 Trans-1,4-Dichloro	28.969	17.975	62.05*	65-126
66 N-Propyl Benzene	28.969	17.614	60.80*	80-132
67 Bromobenzene	28.969	12.154	41.96*	80-120
68 1,3,5-Trimethyl Be	28.969	16.523	57.04*	80-125
69 2-Chloro Toluene	28.969	15.102	52.13*	80-125
70 4-Chloro Toluene	28.969	13.131	45.33*	80-127
71 T-Butyl Benzene	28.969	17.826	61.53*	87-122
72 1,2,4-Trimethylben	28.969	14.931	51.54*	80-126
73 S-Butyl Benzene	28.969	14.844	51.24*	80-134
74 4-Isopropyl Toluen	28.969	14.388	49.67*	80-131
75 1,3-Dichlorobenzen	28.969	8.940	30.86*	80-120
77 1,4-Dichlorobenzen	28.969	8.276	28.57*	80-120
78 N-Butyl Benzene	28.969	11.296	38.99*	80-138
80 1,2-Dichlorobenzen	28.969	8.187	28.26*	80-120
81 1,2-Dibromo 3-Chlo	28.969	10.614	36.64*	59-120
82 1,2,4-Trichloroben	28.969	3.309	11.42*	78-130
83 Hexachloro 1,3-But	28.969	4.461	15.40*	76-129
84 Naphthalene	28.969	3.290	11.36*	66-120
85 1,2,3-Trichloroben	28.969	2.691	9.29*	73-123

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	52.122	104.25	30-160

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 31 d4-1,2-Dichloroeth	50.000	53.217	106.43	75-152
$ 43 d8-Toluene	50.000	48.520	97.04	82-115
$ 62 4-Bromofluorobenze	50.000	43.175	86.35	64-120
$ 79 d4-1,2-Dichloroben	50.000	49.398	98.80	80-120

Data File: /chem1/finn5.i/05AUG10.b/RG79EMS.d
Date : 05-AUG-2010 21:16
Client ID: PSB11-4-6-07301 MS
Sample Info: RG79EMS,5,8.63,0
Column phase: Rtx502.2

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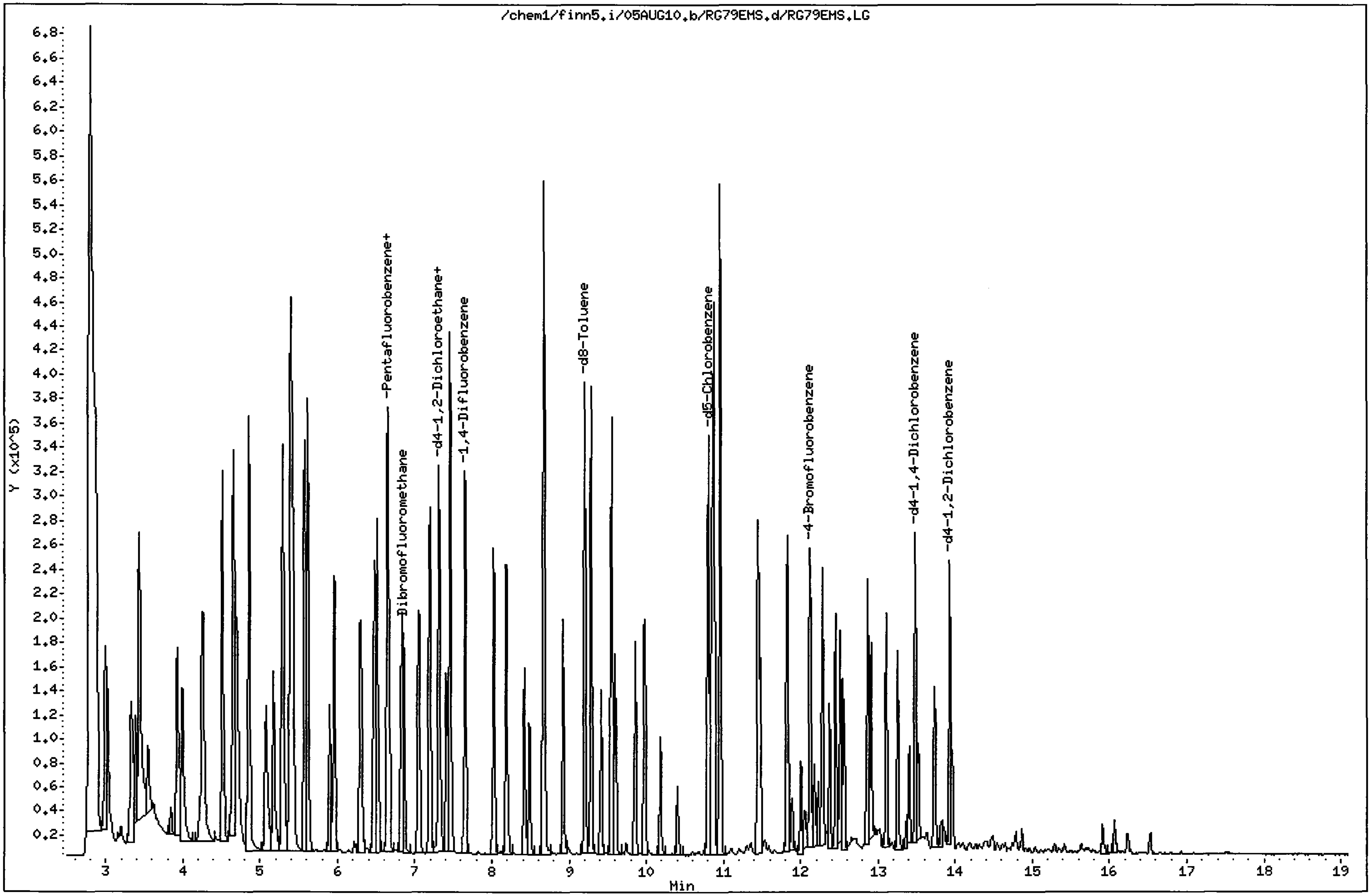
Instrument: finn5.i
Operator: PB
Column diameter: 0.18



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8260C

Data file : /chem1/finn5.i/05AUG10.b/RG79EMSD.d
Lab Smp Id: RG79EMSD Client Smp ID: PSB11-4-6-07301 MSD
Inj Date : 05-AUG-2010 21:42
Operator : PB Inst ID: finn5.i
Smp Info : RG79EMSD,5,9.83,0
Misc Info : 10-18509
Comment :
Method : /chem1/finn5.i/05AUG10.b/s8260b.m
Meth Date : 09-Aug-2010 14:03 patrickb Quant Type: ISTD
Cal Date : 23-JUL-2010 17:18 Cal File: 2000723.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: voa.sub
Target Version: 3.50
Processing Host: cserv3

Concentration Formula: Amt * DF * Pv * 1 / (Sa * ((100 - M) / 100)) * CpndVaria

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	5.00000	Purge Volume
Sa	9.83000	Sample Amount
M	0.00000	Moisture (%)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	3.015	3.005	(0.455)	80946	46.5474	23.676
2 Chloromethane	50	3.316	3.306	(0.500)	236450	50.5361	25.705
3 Vinyl Chloride	62	3.427	3.417	(0.517)	185979	50.2655	25.567
4 Bromomethane	94	3.919	3.909	(0.591)	119050	59.2483	30.136
5 Chloroethane	64	3.980	3.970	(0.600)	111322	46.0723	23.434
6 Trichlorofluoromethane	101	4.241	4.231	(0.639)	129668	36.2613	18.444
7 Acrolein	56	4.633	4.623	(0.698)	44458	99.6669	50.695(R)
8 112Trichloro122Trifluoroethane	101	4.643	4.633	(0.700)	84552	30.2018	15.362(R)
9 Acetone	43	4.683	4.673	(0.706)	372486	496.304	252.44(R)
10 1,1-Dichloroethene	96	4.844	4.834	(0.730)	101165	39.8218	20.255
11 Bromoethane	108	5.065	5.055	(0.764)	88885	47.2464	24.032
12 Iodomethane	142	5.166	5.156	(0.779)	150886	50.2338	25.551
13 Methylene Chloride	84	5.276	5.266	(0.795)	134087	46.8751	23.843
14 Acrylonitrile	53	5.367	5.347	(0.809)	45059	67.9991	34.588(QR)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	CONCENTRATIONS FINAL (ug/Kg)
	16 Methyl tert-Butyl Ether	73	5.407	5.387	(0.815)	188386	48.2213	24.528(Q)
	15 Carbon Disulfide	76	5.377	5.367	(0.811)	446707	56.6952	28.838
	17 Trans-1,2-Dichloroethene	96	5.568	5.548	(0.839)	86062	39.7515	20.219(R)
	18 Vinyl Acetate	43	5.889	5.869	(0.888)	168502	44.4378	22.603
	19 1,1-Dichloroethane	63	5.940	5.929	(0.895)	165253	41.4910	21.104
	20 2-Butanone	43	6.281	6.271	(0.947)	318304	376.918	191.72(R)
	21 2,2-Dichloropropane	77	6.462	6.452	(0.974)	75494	30.9766	15.756(R)
	22 Cis-1,2-Dichloroethene	96	6.502	6.492	(0.980)	74964	39.2858	19.983(R)
*	23 Pentafluorobenzene	168	6.633	6.623	(1.000)	134110	50.0000	
	24 Chloroform	83	6.653	6.633	(1.003)	119432	36.9166	18.778(R)
	26 Bromochloromethane	128	6.814	6.804	(1.027)	40068	44.2271	22.496
$	25 Dibromofluoromethane	111	6.844	6.834	(1.032)	87666	54.8462	27.897(Q)
	27 1,1,1-Trichloroethane	97	7.035	7.025	(1.061)	75086	29.8404	15.178(R)
	29 1,1-Dichloropropene	75	7.176	7.176	(0.939)	72966	27.3679	13.920(R)
	30 Carbon Tetrachloride	117	7.296	7.286	(0.955)	58959	25.4306	12.935(R)
$	31 d4-1,2-Dichloroethane	65	7.316	7.296	(1.103)	98460	56.2950	28.634
	32 1,2-Dichloroethane	62	7.397	7.387	(0.968)	87687	37.4647	19.056(R)
	33 Benzene	78	7.447	7.437	(0.975)	232121	36.0047	18.314(R)
*	34 1,4-Difluorobenzene	114	7.638	7.628	(1.000)	196331	50.0000	
	35 Trichloroethene	95	8.010	8.000	(1.049)	49832	26.3819	13.419(R)
	36 1,2-Dichloropropane	63	8.171	8.161	(1.070)	64206	31.5933	16.070(R)
	37 Bromodichloromethane	83	8.412	8.402	(1.101)	62658	28.8373	14.668(R)
	39 Dibromomethane	93	8.482	8.472	(1.111)	35458	35.1480	17.878(R)
	40 2-Chloroethyl Vinyl Ether	63	8.663	8.613	(1.134)	291	0.40887	0.2080(QR)
	41 4-Methyl-2-Pentanone	58	8.663	8.653	(1.134)	132391	255.088	129.75(Q)
	42 Cis 1,3-dichloropropene	75	8.914	8.904	(1.167)	62017	26.1425	13.297(R)
$	43 d8-Toluene	98	9.186	9.176	(1.203)	192570	44.6391	22.706
	44 Toluene	92	9.276	9.266	(1.214)	88708	23.1911	11.796(R)
	45 Trans 1,3-Dichloropropene	75	9.407	9.397	(1.232)	41954	21.0400	10.702(R)
	46 2-Hexanone	43	9.537	9.527	(0.884)	259377	261.143	132.83
	47 1,1,2-Trichloroethane	97	9.588	9.578	(1.255)	34510	28.9801	14.741(R)
	48 1,3-Dichloropropane	76	9.849	9.839	(0.912)	62825	36.7372	18.686(R)
	49 Tetrachloroethene	166	9.960	9.949	(0.923)	27106	20.0796	10.213(R)
	50 Chlorodibromomethane	129	10.171	10.161	(0.942)	33850	29.4237	14.966(R)
	51 1,2-Dibromoethane	107	10.392	10.382	(1.361)	29659	23.2525	11.827(R)
*	52 d5-Chlorobenzene	117	10.794	10.784	(1.000)	121505	50.0000	
	53 Chlorobenzene	112	10.834	10.824	(1.004)	56738	19.9088	10.126(R)
	54 Ethyl Benzene	91	10.864	10.854	(1.007)	98832	20.5073	10.431(R)
	55 1,1,1,2-Tetrachloroethane	131	10.854	10.844	(1.006)	24901	22.8297	11.612(R)
	56 m,p-xylene	106	10.944	10.934	(1.014)	70930	40.2673	20.482(R)
	57 o-Xylene	106	11.437	11.427	(1.060)	34882	19.0537	9.692(R)
	58 Styrene	104	11.467	11.457	(1.062)	43223	15.2697	7.767(R)
	59 Isopropyl Benzene	105	11.819	11.809	(0.878)	65217	25.8300	13.138(R)
	60 Bromoform	173	11.879	11.869	(0.882)	15520	38.2310	19.446
	61 1,1,2,2-Tetrachloroethane	83	11.990	11.980	(0.890)	31760	43.5405	22.147
$	62 4-Bromofluorobenzene	95	12.110	12.100	(1.122)	55957	39.3504	20.015
	63 1,2,3-Trichloropropane	110	12.160	12.150	(0.903)	7290	50.4469	25.660(Q)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/Kg)	FINAL (ug/Kg)
65	Trans-1,4-Dichloro 2-Butene	53	12.211	12.201	(0.907)	11101	49.5155	25.186
66	N-Propyl Benzene	91	12.271	12.261	(0.911)	64721	19.8568	10.100(R)
67	Bromobenzene	156	12.361	12.351	(0.918)	15891	22.5769	11.484(R)
68	1,3,5-Trimethyl Benzene	105	12.442	12.432	(0.924)	41628	20.3109	10.331(R)
69	2-Chloro Toluene	91	12.502	12.492	(0.928)	46633	21.7744	11.075(R)
70	4-Chloro Toluene	91	12.542	12.532	(0.931)	41658	20.2925	10.322(R)
71	T-Butyl Benzene	119	12.854	12.844	(0.954)	32370	18.4613	9.390(R)
72	1,2,4-Trimethylbenzene	105	12.904	12.894	(0.958)	41070	20.3555	10.354(R)
73	S-Butyl Benzene	105	13.095	13.085	(0.972)	40853	14.1623	7.204(R)
74	4-Isopropyl Toluene	119	13.246	13.236	(0.984)	28325	14.3105	7.279(R)
75	1,3-Dichlorobenzene	146	13.397	13.387	(0.995)	17927	14.9079	7.583(QR)
* 76	d4-1,4-Dichlorobenzene	152	13.467	13.457	(1.000)	37508	50.0000	
77	1,4-Dichlorobenzene	146	13.507	13.497	(1.003)	18146	15.0800	7.670(R)
78	N-Butyl Benzene	91	13.718	13.708	(1.019)	24429	11.4294	5.814(R)
$ 79	d4-1,2-Dichlorobenzene	152	13.919	13.909	(1.034)	32747	47.9989	24.414
80	1,2-Dichlorobenzene	146	13.949	13.939	(1.036)	16881	14.7708	7.513(R)
81	1,2-Dibromo 3-Chloropropane	75	14.854	14.844	(1.103)	3091	24.4891	12.456(R)
82	1,2,4-Trichlorobenzene	180	15.899	15.889	(1.181)	3993	5.74141	2.920(R)
83	Hexachloro 1,3-Butadiene	225	16.050	16.040	(1.192)	1815	3.87482	1.971(R)
84	Naphthalene	128	16.221	16.211	(1.204)	10305	8.16921	4.155(R)
85	1,2,3-Trichlorobenzene	180	16.512	16.502	(1.226)	3312	4.98112	2.534(R)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: finn5.i
Lab File ID: RG79EMSD.d
Lab Smp Id: RG79EMSD
Analysis Type: VOA
Quant Type: ISTD
Operator: PB
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18509

Calibration Date: 05-AUG-2010
Calibration Time: 10:49
Client Smp ID: PSB11-4-6-07301 MSD
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF	
23 Pentafluorobenzen	131115	65558	262230	134110	2.28	
34 1,4-Difluorobenze	191559	95780	383118	196331	2.49	
52 d5-Chlorobenzene	161199	80600	322398	121505	-24.62	
76 d4-1,4-Dichlorobe	88279	44140	176558	37508	-57.51	<-n/q

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
23 Pentafluorobenzen	6.62	6.12	7.12	6.63	0.15
34 1,4-Difluorobenze	7.63	7.13	8.13	7.64	0.13
52 d5-Chlorobenzene	10.78	10.28	11.28	10.79	0.09
76 d4-1,4-Dichlorobe	13.46	12.96	13.96	13.47	0.07

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: Floyd/Snider
Sample Matrix: SOLID
Lab Smp Id: RG79EMSD
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: voa.sub
Method File: /chem1/finn5.i/05AUG10.b/s8260b.m
Misc Info: 10-18509

Client SDG: RG79
Fraction: VOA
Client Smp ID: PSB11-4-6-07301 MSD
Operator: PB
SampleType: MSD
Quant Type: ISTD

SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
1	Dichlorodifluorome	25.432	23.676	93.09	53-148
2	Chloromethane	25.432	25.705	101.07	64-125
3	Vinyl Chloride	25.432	25.567	100.53	63-137
4	Bromomethane	25.432	30.136	118.50	57-136
5	Chloroethane	25.432	23.434	92.14	64-131
6	Trichlorofluoromet	25.432	18.444	72.52	69-132
7	Acrolein	127.16	50.695	39.87*	54-137
8	112Trichloro122Tri	25.432	15.362	60.40*	74-130
9	Acetone	127.16	252.44	198.52*	60-131
10	1,1-Dichloroethene	25.432	20.255	79.64	75-126
11	Bromoethane	25.432	24.032	94.49	76-126
12	Iodomethane	25.432	25.551	100.47	65-139
13	Methylene Chloride	25.432	23.843	93.75	70-123
15	Carbon Disulfide	25.432	28.838	113.39	71-129
14	Acrylonitrile	25.432	34.588	136.00*	67-125
16	Methyl tert-Butyl	25.432	24.528	96.44	70-120
17	Trans-1,2-Dichloro	25.432	20.219	79.50*	80-120
18	Vinyl Acetate	25.432	22.603	88.88	60-136
19	1,1-Dichloroethane	25.432	21.104	82.98	80-120
20	2-Butanone	127.16	191.72	150.77*	70-120
21	2,2-Dichloropropan	25.432	15.756	61.95*	74-123
22	Cis-1,2-Dichloroet	25.432	19.983	78.57*	80-120
24	Chloroform	25.432	18.778	73.83*	80-120
26	Bromochloromethane	25.432	22.496	88.45	80-120
27	1,1,1-Trichloroeth	25.432	15.178	59.68*	77-121
29	1,1-Dichloropropen	25.432	13.920	54.74*	80-120
30	Carbon Tetrachlori	25.432	12.935	50.86*	77-122
32	1,2-Dichloroethane	25.432	19.056	74.93*	76-120
33	Benzene	25.432	18.314	72.01*	80-120
35	Trichloroethene	25.432	13.419	52.76*	80-120
36	1,2-Dichloropropan	25.432	16.070	63.19*	80-120
37	Bromodichlorometha	25.432	14.668	57.67*	77-121
39	Dibromomethane	25.432	17.878	70.30*	80-120

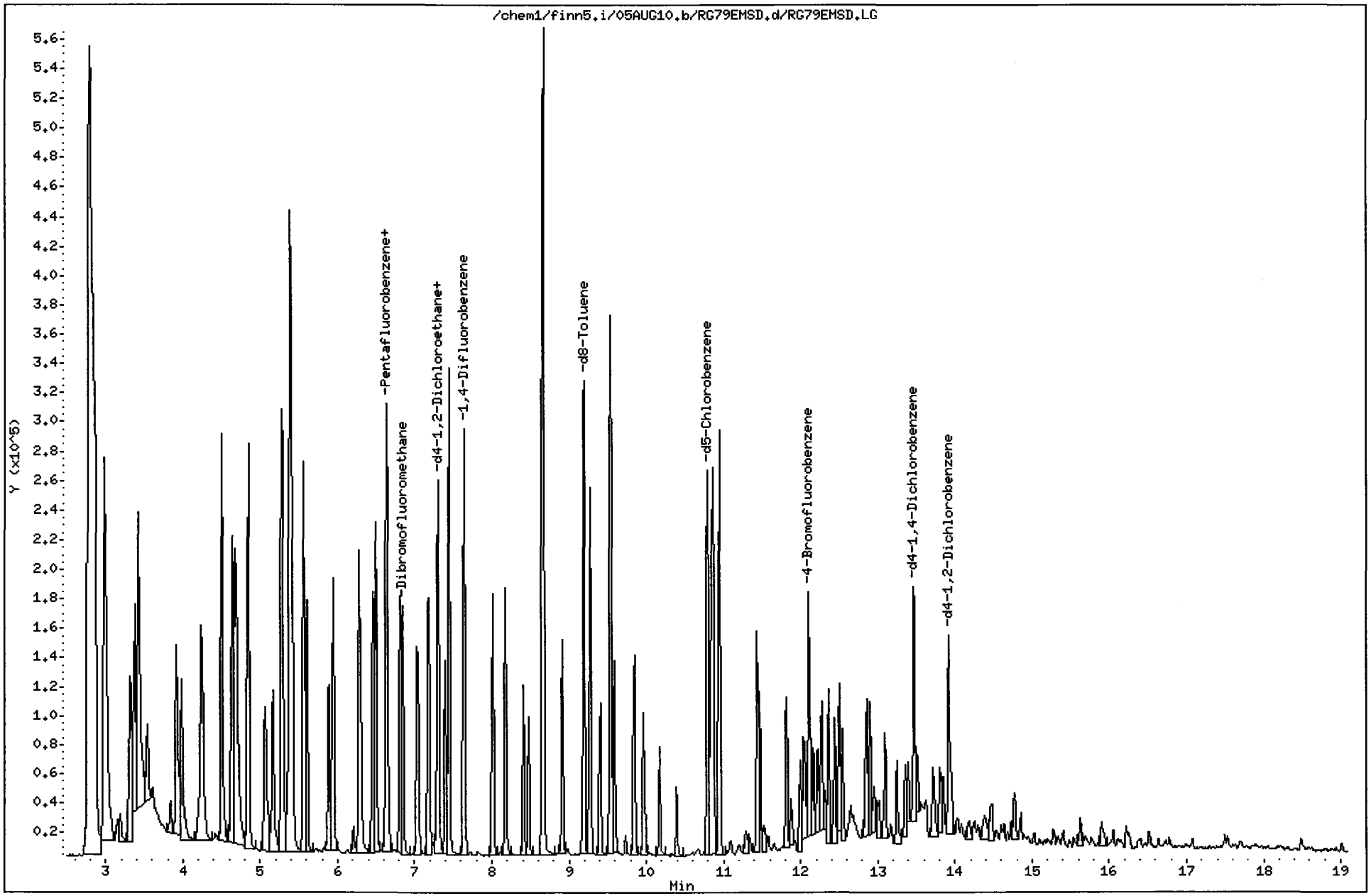
SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
40 2-Chloroethyl Viny	25.432	0.2080	0.82*	10-191
41 4-Methyl-2-Pentano	127.16	129.75	102.04	67-120
42 Cis 1,3-dichloropr	25.432	13.297	52.29*	74-120
44 Toluene	25.432	11.796	46.38*	80-120
45 Trans 1,3-Dichloro	25.432	10.702	42.08*	65-120
46 2-Hexanone	127.16	132.83	104.46	65-130
47 1,1,2-Trichloroeth	25.432	14.741	57.96*	80-120
48 1,3-Dichloropropan	25.432	18.686	73.47*	80-120
49 Tetrachloroethene	25.432	10.213	40.16*	80-121
50 Chlorodibromometha	25.432	14.966	58.85*	64-120
51 1,2-Dibromoethane	25.432	11.827	46.51*	75-120
53 Chlorobenzene	25.432	10.126	39.82*	80-120
55 1,1,1,2-Tetrachlor	25.432	11.612	45.66*	69-121
54 Ethyl Benzene	25.432	10.431	41.01*	80-127
56 m,p-xylene	50.865	20.482	40.27*	80-125
57 o-Xylene	25.432	9.692	38.11*	78-120
58 Styrene	25.432	7.767	30.54*	80-123
59 Isopropyl Benzene	25.432	13.138	51.66*	80-127
60 Bromoform	25.432	19.446	76.46	60-120
61 1,1,2,2-Tetrachlor	25.432	22.147	87.08	74-120
63 1,2,3-Trichloropro	25.432	25.660	100.89	72-121
65 Trans-1,4-Dichloro	25.432	25.186	99.03	65-126
66 N-Propyl Benzene	25.432	10.100	39.71*	80-132
67 Bromobenzene	25.432	11.484	45.15*	80-120
68 1,3,5-Trimethyl Be	25.432	10.331	40.62*	80-125
69 2-Chloro Toluene	25.432	11.075	43.55*	80-125
70 4-Chloro Toluene	25.432	10.322	40.59*	80-127
71 T-Butyl Benzene	25.432	9.390	36.92*	87-122
72 1,2,4-Trimethylben	25.432	10.354	40.71*	80-126
73 S-Butyl Benzene	25.432	7.204	28.32*	80-134
74 4-Isopropyl Toluen	25.432	7.279	28.62*	80-131
75 1,3-Dichlorobenzen	25.432	7.583	29.82*	80-120
77 1,4-Dichlorobenzen	25.432	7.670	30.16*	80-120
78 N-Butyl Benzene	25.432	5.814	22.86*	80-138
80 1,2-Dichlorobenzen	25.432	7.513	29.54*	80-120
81 1,2-Dibromo 3-Chlo	25.432	12.456	48.98*	59-120
82 1,2,4-Trichloroben	25.432	2.920	11.48*	78-130
83 Hexachloro 1,3-But	25.432	1.971	7.75*	76-129
84 Naphthalene	25.432	4.155	16.34*	66-120
85 1,2,3-Trichloroben	25.432	2.534	9.96*	73-123

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.000	54.846	109.69	30-160

SURROGATE COMPOUND	AMOUNT ADDED ug/Kg	AMOUNT RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 31 d4-1,2-Dichloroeth	50.000	56.295	112.59	75-152
$ 43 d8-Toluene	50.000	44.639	89.28	82-115
$ 62 4-Bromofluorobenze	50.000	39.350	78.70	64-120
$ 79 d4-1,2-Dichloroben	50.000	47.999	96.00	80-120

Data File: /chem1/finn5.i/05AUG10.b/RG79EMSD.d
Date : 05-AUG-2010 21:42
Client ID: PSB11-4-6-07301 MSD
Sample Info: RG79EMSD,5,9,83,0

Instrument: finn5.i
Operator: PB
Column phase: Rtx502.2
Column diameter: 0.18



RG79:00539

Semivolatile PAH Raw Data
Extraction Bench Sheets and Notes

ARI Job ID: RG79

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

(8270) PNA-Soil/ Sediment Sonication (3550B) (SOP # 3304S)

Preparation Test PNA # 1
ARI Job No(s) RG79

In-House (~~67ppb~~) 20ppb
Batch set up by: SP

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted (dry wt)	Sonic Horn ID	KD	TurboVap 1 (2) 3	(Opt) SilicaGel Clean (1:1) (Y) / N	TurboVap (1) 2 3	Final Effective Volume	Volume to Lab	Comments
	RG79 MBS	Date 08/12/10	~~7.50g~~ 25.80g	1					0.5mL	0.5mL	10g actual
	SBS			2							
	SBS Dup.										
7	RG79 A	checked	28.02	3							
7	B		28.61	4							
7	C		30.23	5					1mL	1mL	
7	D		30.62	6					0.5mL	0.5mL	
18	E		28.58	7							
18	EMS		28.29	8							
18	EMSD		28.77	9							
7	G		29.36	1							
7	H		30.93	2							
7	K		29.06	3							
7	L		27.40	4							
7	M		27.11	5							
7	N		27.18	6							
7	O		30.67	7							
7	P		31.49	8							
7	Q		29.18	9							
Analyst/Date		AR 08/12/10 IAC 8-13-10			RPT IS 8/16/10	NV 08/16/10	VP 08/16/10	CW 8/16/10			

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
BAN Surrogate	A	125µL	1/22/11		SP
8270 PNA Spike	20	125µL	12/4/10		SP
Extraction Time:	1540		Balance ID: 21754520		

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. NO SODIUM SULFATE. 4. KD (small drying column) to 8mL at 85-90°. 5. Exchange (2 X with 10mL) to Hexane at 100°. 6. TurboVap. 7. Silica Clean-up-Root Beer Color? (All or none) Y / N. 8. TurboVap (if Silica Clean). 9. 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.: RG 79 Client ID: Floyd/Snider

Parameter: 8270 PNA PSDDA Client Project: Lora Lake RI

Note problems, concerns, corrective actions	Analyst/Date
Screens: (Soil)/Sediment/Solid/Other: Soil	WC 8/9/10
☒ No Anomalies (standard soil/sediment) G, L, M	↓
☐ Wet sediment/sludge= Moistured (H)	↓
☐ Standing Water Decanted=	
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay (Difficult to homogenize/Mixed with Kitchen Aid)=	
☒ Rocks/Organics= Rock (A, B, C, D, E, H, I, K, N, & PO) organic (K)	WC 8/9/10
☒ Oily, obvious fuel/sulfur odors= Fuel odor (I)	↓
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates=	
☐ Emulsions=	
☐ Other (Details)=	
☐ Other Notes/Comments=	
ALL SAMPLES FILTERED BEFORE SPIKE.	WC 08/16/10
C-extract could not be concentrated to 0.5mL, taken to 1mL instead	MW 8/16/10

3056F

Revision 007
02/25/10

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SS3

Serial # [redacted]

REQUEST FOR RE-EXTRACTION / RE-ANALYSIS
(Organic Analyses)

Todays Date: 8.21.10
Client Name: Floyd/Snider
ARI Project Number: RG79
Client Project: Lora Lake
Analysis: 8270 PNA
Turn Around Time:
Project Manager: Sue
Date Sampled: 7/30
Sample Matrix

Criteria Flagged

Unacceptable Blank: ☐
Unacceptable Surrogate: ☐
Unacceptable Duplicate: ☐
Instrument Problem: ☐
Unacceptable Spike: ☐
Other: ☐
Overwrite LIMS: ☐
Enter as Re-extract: ☐

Details of Problem / Recommended Corrective Action

Low Surrogates

Samples Affected

(1)

Corrective Action Taken

Redo It!

Analyst:
Date:

Supervisor: VB
Date: 8/21/10

Form 0030F

Revision 005
6/26/08

RG79 : 00542

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

(8270) PNA (Soil) Sediment
Sonication (3550C) (SOP # 3304S)

P500A (a$ ppb)
~~In-House (67ppb)~~

Preparation Test PNA # 1

ARI Job No(s) RG78 (RX), RG79 (RX)

Batch set up by: JH

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted (dry wt)	Sonic Horn ID + Check	KD Hex X X 2	TurboVap 1 (2) 3	(REQ) ~~(Opt)~~ SilicaGel Clean (1:1) (Y) N	TurboVap 1 (2) 3	Final Effective Volume	Volume to Lab	Comments
	RG78(RX) MBS	Date 8/24/10	~~7.50g~~ 25.33	1					0.5mL	0.5mL	1$g Actual
	SBS			2							
	~~SBS Dup.~~										
7	RG78(RX) E2	checkd	15.08	4							
7	RG79(RX) 02		14.10	5							
						CJZ					
Analyst/Date	WC 8/24/10					8/24/10					

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
BAN Surrogate	A	125µL	1/22/11	WC	AC
8270 PNA Spike	20	125µL	12/24/14	WC	AC
Extraction Time: 17:14			Balance ID: 24150193		

SPECIAL INSTRUCTIONS: 1. Weigh into 100mL beakers. 2. Extract 2X with 1:1 DCM/Acetone. Plus 1 X DCM only. 3. Collect into ~~150mL~~ 250 beaker with 5-10g sodium sulfate in the bottom + small funnel with pre-rinsed neutral glasswool. NO SODIUM SULFATE. 4. KD (small drying column) to 8mL at 85-90°. 5. Exchange (2 X with 10mL) to Hexane at 100°. 6. TurboVap. 7. Silica Clean-up-Root Beer Color? (All ~~orange~~) (Y) / N. 8. TurboVap (if Silica Clean). 9. 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.: RG78(RX)/RG79(RX) Client ID: Floyd/Snider

Parameter: 8270 PNA PSDDA Client Project: Lora lake RI

Note problems, concerns, corrective actions	Analyst/Date
Screens: Soil/Sediment/Solid/Other:	
☐ **No Anomalies (standard soil/sediment)**	
☐ **Wet sediment/sludge=**	
☐ **Standing Water Decanted=**	
☐ **Standing Water Homogenized (Shared samples)=**	
☐ **Clay (Difficult to homogenize/Mixed with Kitchen Aid)=**	
☐ **Rocks/Organics=**	
☐ **Oily, obvious fuel/sulfur odors=**	
☐ **Other (Details)=**	
Aqueous:	
☐ **No Anomalies**	
☐ **Turbid/Color=**	
☐ **Particulates=**	
☐ **Emulsions=**	
☐ **Other (Details)=**	
☒ **Other Notes/Comments=** Re-extracted Samples at reduced	
Volumes as per laboratory director.	JH 8/24/10

Semivolatile PAH Raw Data
Initial Calibration

ARI Job ID: RG79

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: GWAM Client ID: _____

ARI SOP: **801S**(SIM-PNA) **802S**(Butyl Tins) **804S**(SVOA-8270D) **805S**(op-Pest)

Parameter(s): 8270

Instrument: NT-2 NT-4 NT-6 NT-8 NT11

Curve Date: 7/19/10 Analysis Start Date: 7/19/10

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	CCal acceptable?	YES / NO
Q flag applied?	YES / NO	Q flag applied?	YES / NO
Surrogate Recovery in Control?	YES / NO	Special Analysis Criteria Met?	YES / NO / NA
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	Yes /NO

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

Analyst: _____ **Date:** 07/21/10

Reviewer: _____ **Date:** 7/22/10

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:18
End Cal Date : 19-JUL-2010 19:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20100719.b/SW846100719.m
Cal Date : 20-Jul-2010 18:52 jianqing
Curve Type : Average

Calibration File Names:
Level 1: /chem3/nt4.i/20100719.b/07191002.d
Level 2: /chem3/nt4.i/20100719.b/07191003.d
Level 3: /chem3/nt4.i/20100719.b/07191004.d
Level 4: /chem3/nt4.i/20100719.b/07191001.d
Level 5: /chem3/nt4.i/20100719.b/07191005.d
Level 6: /chem3/nt4.i/20100719.b/07191006.d
Level 7: /chem3/nt4.i/20100719.b/07191007.d

JB 07/20/10

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
186 Carbaryl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
179 n-Decane	0.92180	0.82264	0.83087	0.80562	0.77461	0.72218	0.72634	0.80058	8.602
180 n-Octadecane	0.30254	0.30439	0.30088	0.27733	0.26049	0.23560	0.24283	0.27487	10.602
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
170 N,N-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
171 2,3-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:18
End Cal Date : 19-JUL-2010 19:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20100719.b/SW846100719.m
Cal Date : 20-Jul-2010 18:52 jianqing
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD
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	0.48861	0.40393	0.42050	0.40899	0.40317	0.38693	0.40461	0.41668	7.974
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
135 2,3,5,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 2,3,4,5-tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
133 Butylatedhydroxytoluene	1.19720	1.04095	0.99330	0.97685	0.89378	0.77988	0.78639	0.95262	15.499
132 3,6-Dimethylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 alpha-Terpineol	0.20333	0.18267	0.17306	0.16830	0.15310	0.14414	0.14638	0.16728	12.784
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
123 Acetophenone	0.47112	0.43077	0.44900	0.41885	0.42391	0.38242	0.39668	0.42468	7.057
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
143 1,4-Dioxane	0.42414	0.38659	0.38470	0.38545	0.38216	0.36299	0.37185	0.38541	4.967
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 2,3,4,6-Tetrachlorophenol	0.25519	0.28418	0.30668	0.32679	0.31590	0.31226	0.32321	0.30346	8.378

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Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD
178 2-Benzyl-4-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 7,12-Dimethylbenz(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
118 Triphenyl Phosphate	0.21448	0.19694	0.20258	0.20992	0.19726	0.19550	0.20200	0.20267	3.524
117 Butyl Diphenyl Phosphate	0.20655	0.19943	0.20154	0.21935	0.20468	0.19710	0.20303	0.20453	3.550
116 Dibutyl Phenyl Phosphate	0.63142	0.63922	0.64164	0.65657	0.62011	0.59024	0.58599	0.62360	4.271
115 Tributyl Phosphate	0.82256	0.81058	0.82385	0.77329	0.73758	0.67365	0.67146	0.75899	8.759
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 Diphenyl Oxide	1.27946	1.14210	1.08994	1.06974	1.02840	0.95213	0.97094	1.07610	10.365
112 Biphenyl	1.45512	1.34252	1.29488	1.25164	1.18585	1.05874	1.07159	1.23719	11.621

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Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	RRF	% RSD
	80.000 Level 7							
111 Azobenzene (1,2-DP-Hydrazine)	1.14006	1.05422	1.06029	0.98330	0.93779	0.85870		
	0.88505						0.98849	10.333
110 Tetrachloroguaiacol	0.11596	0.11133	0.11890	0.12191	0.11926	0.11335		
	0.11589						0.11666	3.126
109 3,4,5-Trichloroguaiacol	0.11049	0.11016	0.12312	0.12448	0.12647	0.12285		
	0.12207						0.11995	5.607
181 3,4,6-Trichloroguaiacol	0.12878	0.13256	0.14742	0.14807	0.14839	0.14105		
	0.14100						0.14104	5.542
108 4,5,6-Trichloroguaiacol	0.11309	0.11565	0.12736	0.12953	0.13025	0.12878		
	0.13208						0.12525	6.072
184 3,4-Dichloroguaiacol	0.18718	0.19558	0.20120	0.21429	0.21460	0.21416		
	0.22213						0.20702	6.072
107 4,5-Dichloroguaiacol	0.24994	0.26319	0.28360	0.28782	0.31885	0.31206		
	0.32256						0.29115	9.653
182 4,6-Dichloroguaiacol	0.26639	0.25087	0.25423	0.27031	0.24545	0.25236		
	0.25904						0.25695	3.442
185 4-Chloroguaiacol	0.52855	0.55087	0.58184	0.65330	0.62945	0.63641		
	0.65684						0.60532	8.508

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	RRF	% RSD
	80.000 Level 7							
106 Guaiacol	1.15403	1.10226	1.04007	1.07495	1.03019	1.00527		
	1.05597						1.06610	4.672
105 1-methylnaphthalene	0.73856	0.63642	0.64470	0.63475	0.63080	0.56290		
	0.57420						0.63176	9.061
151 1,2,4,5-Tetrachlorobenzene	0.60742	0.54668	0.51019	0.52365	0.49918	0.49132		
	0.50330						0.52596	7.664
152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
156 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
157 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD
167 2,2',4,4',5-Pentabromobipheny	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Phenol	1.52327	1.49036	1.44408	1.42057	1.27348	1.24736	1.25719	1.37947	8.499
4 Bis(2-Chloroethyl)ether	1.15389	1.05315	1.02928	1.02414	1.00496	0.95372	0.98212	1.02875	6.230
6 2-Chlorophenol	1.37703	1.36240	1.36527	1.36485	1.23335	1.24332	1.24328	1.31278	5.206
7 1,3-Dichlorobenzene	1.70982	1.50199	1.50118	1.48198	1.44634	1.37413	1.42568	1.49159	7.143
9 1,4-Dichlorobenzene	1.69819	1.51370	1.53118	1.50592	1.47489	1.38965	1.43221	1.50653	6.502
11 Benzyl alcohol	+++++	0.91223	0.79662	0.78505	0.73616	0.72469	0.73582	0.78176	8.991
12 1,2-Dichlorobenzene	1.58084	1.43971	1.41297	1.38858	1.37137	1.28892	1.33936	1.40311	6.593
13 2-Methylphenol	1.00242	1.11049	1.11324	1.09858	1.00909	1.01582	1.02716	1.05383	4.830

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	RRF	% RSD
	80.000 Level 7							
14 2,2'-oxybis(1-Chloropropane)	1.13408	1.01956	0.99179	0.96247	0.92361	0.85484		
	0.88281						0.96702	9.707
15 4-Methylphenol	1.07650	1.16260	1.11867	1.13237	1.04810	1.05052		
	1.06807						1.09383	4.048
16 N-Nitroso-di-n-propylamine	0.78726	0.74703	0.72321	0.71449	0.70269	0.67015		
	0.70434						0.72131	5.160
17 Hexachloroethane	0.59135	0.55760	0.55641	0.56043	0.55416	0.53089		
	0.55511						0.55799	3.172
19 Nitrobenzene	0.34489	0.32224	0.32158	0.30263	0.30059	0.27111		
	0.28230						0.30648	8.251
20 Isophorone	0.57278	0.51716	0.52559	0.50326	0.49812	0.45867		
	0.48724						0.50898	6.978
21 2-Nitrophenol	0.16195	0.18553	0.20346	0.20681	0.19423	0.19296		
	0.19540						0.19148	7.720
22 2,4-Dimethylphenol	0.34079	0.36339	0.36901	0.35409	0.32771	0.31174		
	0.31961						0.34090	6.502
23 Bis(2-Chloroethoxy)methane	0.40457	0.35984	0.36446	0.35658	0.34648	0.31829		
	0.33302						0.35475	7.699

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD	
24 Benzoic acid	+++++	0.15013	0.22239	0.26771	0.26141	0.27115	0.28027	0.24218	20.377	<-
25 2,4-Dichlorophenol	0.25352	0.30103	0.32365	0.32634	0.30124	0.29644	0.29424	0.29949	8.019	
26 1,2,4-Trichlorobenzene	0.36782	0.33592	0.33834	0.33196	0.32979	0.31123	0.31968	0.33353	5.349	
28 Naphthalene	1.18074	1.01940	1.01451	0.96244	0.89659	0.77689	0.79230	0.94898	14.906	
29 4-Chloroaniline	0.39252	0.40069	0.40268	0.39409	0.37339	0.34529	0.34011	0.37840	6.924	
30 Hexachlorobutadiene	0.21745	0.18519	0.19378	0.18639	0.18753	0.17448	0.17979	0.18923	7.318	
31 4-Chloro-3-methylphenol	0.20393	0.27117	0.29842	0.30937	0.28574	0.27836	0.27550	0.27464	12.366	
32 2-Methylnaphthalene	0.74630	0.66270	0.66341	0.64960	0.63860	0.57380	0.58003	0.64492	9.012	
33 Hexachlorocyclopentadiene	0.19670	0.24178	0.28639	0.31893	0.32950	0.33112	0.34400	0.29263	18.716	

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD
34 2,4,6-Trichlorophenol	0.30819	0.35802	0.37214	0.38430	0.36043	0.36626	0.37085	0.36003	6.787
35 2,4,5-Trichlorophenol	0.24826	0.35083	0.38002	0.41048	0.38587	0.39121	0.39911	0.36654	15.105
37 2-Chloronaphthalene	1.24508	1.12343	1.11327	1.10426	1.06169	0.96578	1.00077	1.08775	8.398
38 2-Nitroaniline	0.14117	0.18570	0.22375	0.23754	0.22985	0.22602	0.22604	0.21001	16.476
39 Dimethylphthalate	1.45154	1.30059	1.32041	1.28013	1.23687	1.16414	1.19011	1.27768	7.480
40 Acenaphthylene	1.94865	1.75474	1.75306	1.67242	1.55992	1.38771	1.40886	1.64077	12.334
41 2,6-Dinitrotoluene	0.24350	0.27750	0.29856	0.30488	0.30145	0.28576	0.30088	0.28751	7.563
43 3-Nitroaniline	0.26688	0.27225	0.29172	0.27509	0.24490	0.21809	0.20565	0.25351	12.551
44 Acenaphthene	1.24498	1.09893	1.11201	1.06610	1.03099	0.94431	0.98045	1.06825	9.248

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45 2,4-Dinitrophenol	+++++	0.03672	0.10442	0.16137	0.17851	0.19947	0.20969	0.14836	44.553	<-
46 Dibenzofuran	1.64581	1.49192	1.49840	1.42404	1.35991	1.25954	1.28807	1.42396	9.465	
47 4-Nitrophenol	0.14176	0.14832	0.18103	0.19488	0.19349	0.19799	0.19695	0.17920	13.431	
48 2,4-Dinitrotoluene	0.28796	0.35208	0.40205	0.40448	0.40680	0.39051	0.40980	0.37910	11.820	
49 Fluorene	1.44497	1.29959	1.31553	1.25982	1.17937	1.05063	1.07434	1.23204	11.392	
50 Diethylphthalate	1.57307	1.36806	1.41182	1.31777	1.26768	1.13760	1.17582	1.32169	11.204	
51 4-Chlorophenyl-phenylether	0.69474	0.61629	0.61711	0.60255	0.58436	0.52633	0.54152	0.59756	9.315	
52 4-Nitroaniline	0.28107	0.27988	0.27202	0.26389	0.27732	0.26889	0.27942	0.27464	2.371	
53 4,6-Dinitro-2-methylphenol	+++++	0.08845	0.12548	0.14855	0.14840	0.15739	0.15973	0.13800	19.657	

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Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	RRF	% RSD
	80.000 Level 7							
54 N-Nitrosodiphenylamine	0.59897	0.56644	0.58454	0.56521	0.56824	0.52773		
	0.53790						0.56415	4.382
56 4-Bromophenyl-phenylether	0.21096	0.20155	0.21106	0.20521	0.20601	0.19314		
	0.20319						0.20445	3.008
57 Hexachlorobenzene	0.24169	0.20966	0.21365	0.20517	0.20414	0.19121		
	0.20035						0.20941	7.598
58 Pentachlorophenol	+++++	0.12236	0.13905	0.15024	0.14329	0.14966		
	0.15151						0.14268	7.744
60 Phenanthrene	1.26953	1.07829	1.08369	1.03854	0.98609	0.89265		
	0.90371						1.03607	12.407
61 Anthracene	1.26876	1.10675	1.12399	1.07407	1.02212	0.90794		
	0.91554						1.05988	11.902
62 Carbazole	1.14479	1.01093	0.98838	0.94710	0.92667	0.85605		
	0.86786						0.96311	10.213
63 Di-n-butylphthalate	1.39044	1.32866	1.35805	1.29164	1.18853	1.02048		
	1.01833						1.22802	12.705
64 Fluoranthene	1.23295	1.10063	1.14509	1.10131	1.07018	0.93571		
	0.92842						1.07347	10.212

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:18
End Cal Date : 19-JUL-2010 19:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20100719.b/SW846100719.m
Cal Date : 20-Jul-2010 18:52 jianqing
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	RRF	% RSD
	80.000 Level 7							
65 Pyrene	1.54895	1.32386	1.30232	1.29301	1.19639	1.08660		
	1.12621						1.26819	12.130
67 Butylbenzylphthalate	0.63232	0.62704	0.69192	0.67226	0.65120	0.60529		
	0.62513						0.64359	4.672
68 Benzo(a)anthracene	1.39978	1.20719	1.24065	1.17611	1.11630	1.01634		
	1.05028						1.17238	11.012
70 3,3'-Dichlorobenzidine	0.36883	0.40238	0.42289	0.39897	0.37590	0.34353		
	0.34172						0.37917	8.081
71 Chrysene	1.38365	1.19972	1.21395	1.15816	1.07914	0.97665		
	1.02095						1.14746	11.954
72 bis(2-Ethylhexyl)phthalate	0.53161	0.56815	0.61721	0.58487	0.58969	0.54278		
	0.54044						0.56782	5.521
73 Di-n-octylphthalate	1.26596	1.05129	1.06355	0.99565	0.93391	0.82830		
	0.82184						0.99436	15.514
74 Benzo(b)fluoranthene	1.40393	1.29239	1.31290	1.21076	1.20926	1.06436		
	1.22076						1.24491	8.538
75 Benzo(k)fluoranthene	1.53572	1.29180	1.33244	1.33678	1.21455	1.11293		
	1.00320						1.26106	13.651

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:18
End Cal Date : 19-JUL-2010 19:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20100719.b/SW846100719.m
Cal Date : 20-Jul-2010 18:52 jianqing
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
187 Total Benzofluoranthenes	1.38210	1.22664	1.24385	1.19904	1.14180	1.02417	1.04387	1.18021	10.477
76 Benzo(a)pyrene	1.23441	1.10443	1.13165	1.12539	1.08511	1.00857	1.04071	1.10432	6.582
78 Indeno(1,2,3-cd)pyrene	1.10926	1.07903	1.19493	1.24464	1.26134	1.17723	1.23424	1.18581	5.856
79 Dibenzo(a,h)anthracene	0.81878	0.86277	0.96765	1.02741	1.03845	0.95450	1.00345	0.95329	8.751
80 Benzo(g,h,i)perylene	0.94422	0.90041	1.05378	1.04646	1.07844	1.01381	1.05822	1.01362	6.558
90 N-Nitrosodimethylamine	0.64783	0.59968	0.56719	0.58049	0.56446	0.53912	0.57962	0.58263	5.869
91 Aniline	1.66497	1.54617	1.49097	1.44064	1.35252	1.27767	1.30611	1.43987	9.674
92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 Benzidine	0.42376	0.43565	0.41475	0.34689	0.33093	0.31136	0.30159	0.36642	15.475

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:18
End Cal Date : 19-JUL-2010 19:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20100719.b/SW846100719.m
Cal Date : 20-Jul-2010 18:52 jianqing
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	___ RRF	% RSD
96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 Retene	0.45889	0.42060	0.41951	0.43772	0.41600	0.40302	0.41927	0.42500	4.249
99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
103 Pyridine	0.90268	0.95399	1.04225	1.06515	1.04732	0.97877	1.04329	1.00478	6.029
$ 1 2-Fluorophenol	1.16448	1.12400	1.01131	1.14250	1.05748	1.03186	1.05437	1.08371	5.470

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:18
End Cal Date : 19-JUL-2010 19:48
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20100719.b/SW846100719.m
Cal Date : 20-Jul-2010 18:52 jianqing
Curve Type : Average

Compound	1.000 Level 1	5.000 Level 2	10.000 Level 3	25.000 Level 4	40.000 Level 5	60.000 Level 6	80.000 Level 7	RRF	% RSD
$ 137 d8-1,4-Dioxane	0.43005	0.40873	0.39728	0.39731	0.39810	0.37989	0.39506	0.40092	3.838
$ 2 Phenol-d5	1.09019	1.11643	1.02349	1.12745	1.05098	1.00985	1.04391	1.06604	4.295
$ 5 2-Chlorophenol-d4	1.21573	1.17992	1.08812	1.18777	1.11736	1.08778	1.13033	1.14386	4.448
$ 10 1,2-Dichlorobenzene-d4	0.97264	0.91430	0.80244	0.85219	0.81452	0.79829	0.81850	0.85327	7.758
$ 18 Nitrobenzene-d5	0.32597	0.33013	0.31174	0.31824	0.30824	0.28032	0.29218	0.30955	5.796
$ 36 2-Fluorobiphenyl	1.46388	1.33164	1.17402	1.25846	1.16251	1.07975	1.10556	1.22512	11.123
$ 55 2,4,6-Tribromophenol	0.11310	0.14211	0.14091	0.15595	0.14884	0.14537	0.15489	0.14302	10.084
$ 66 Terphenyl-d14	0.93602	0.81779	0.74164	0.80245	0.72726	0.68592	0.70996	0.77444	11.066
$ 85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

RG79 : 55561

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:18
End Cal Date : 19-JUL-2010 19:48
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20100719.b/SW846100719.m
Cal Date : 20-Jul-2010 18:52 jianqing

07/20/10

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	60 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	80 Level 7										
23 Bis(2-Chloroethoxy)methane	0.40457	0.35984	0.36446	0.35658	0.34648	0.31829					
	0.33302						AVRG		0.35475		7.69914
24 Benzoic acid	+++++	76277	295968	865635	1401298	2377813					
	2519498						LINR	0.000e+00	0.27416		0.99624
25 2,4-Dichlorophenol	0.25352	0.30103	0.32365	0.32634	0.30124	0.29644					
	0.29424						AVRG		0.29949		8.01880
26 1,2,4-Trichlorobenzene	0.36782	0.33592	0.33834	0.33196	0.32979	0.31123					
	0.31968						AVRG		0.33353		5.34949
28 Naphthalene	1.18074	1.01940	1.01451	0.96244	0.89659	0.77689					
	0.79230						AVRG		0.94898		14.90588
29 4-Chloroaniline	0.39252	0.40069	0.40268	0.39409	0.37339	0.34529					
	0.34011						AVRG		0.37840		6.92405
30 Hexachlorobutadiene	0.21745	0.18519	0.19378	0.18639	0.18753	0.17448					
	0.17979						AVRG		0.18923		7.31839

RG756 :65565

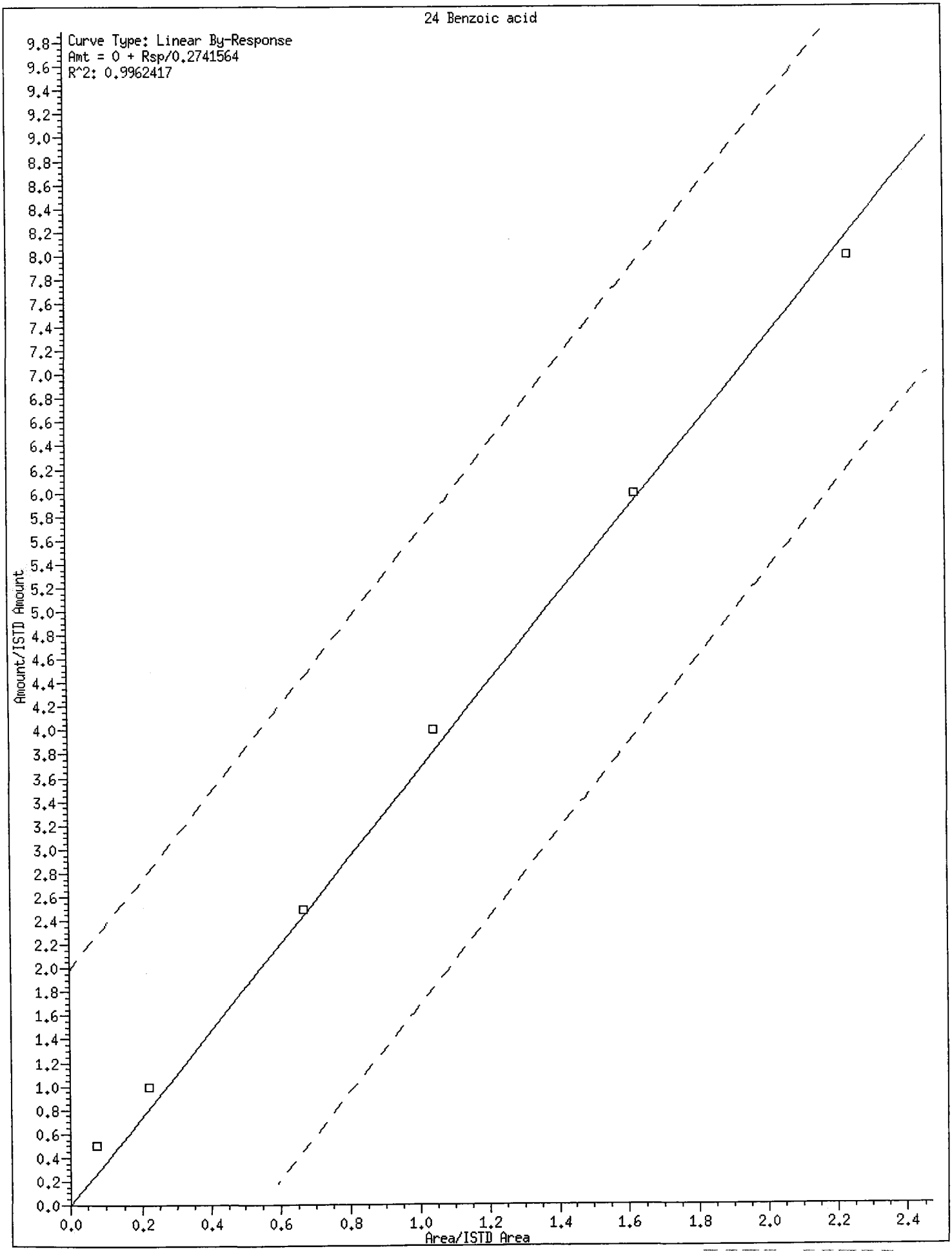
Analytical Resources, Inc.

INITIAL CALIBRATION DATA

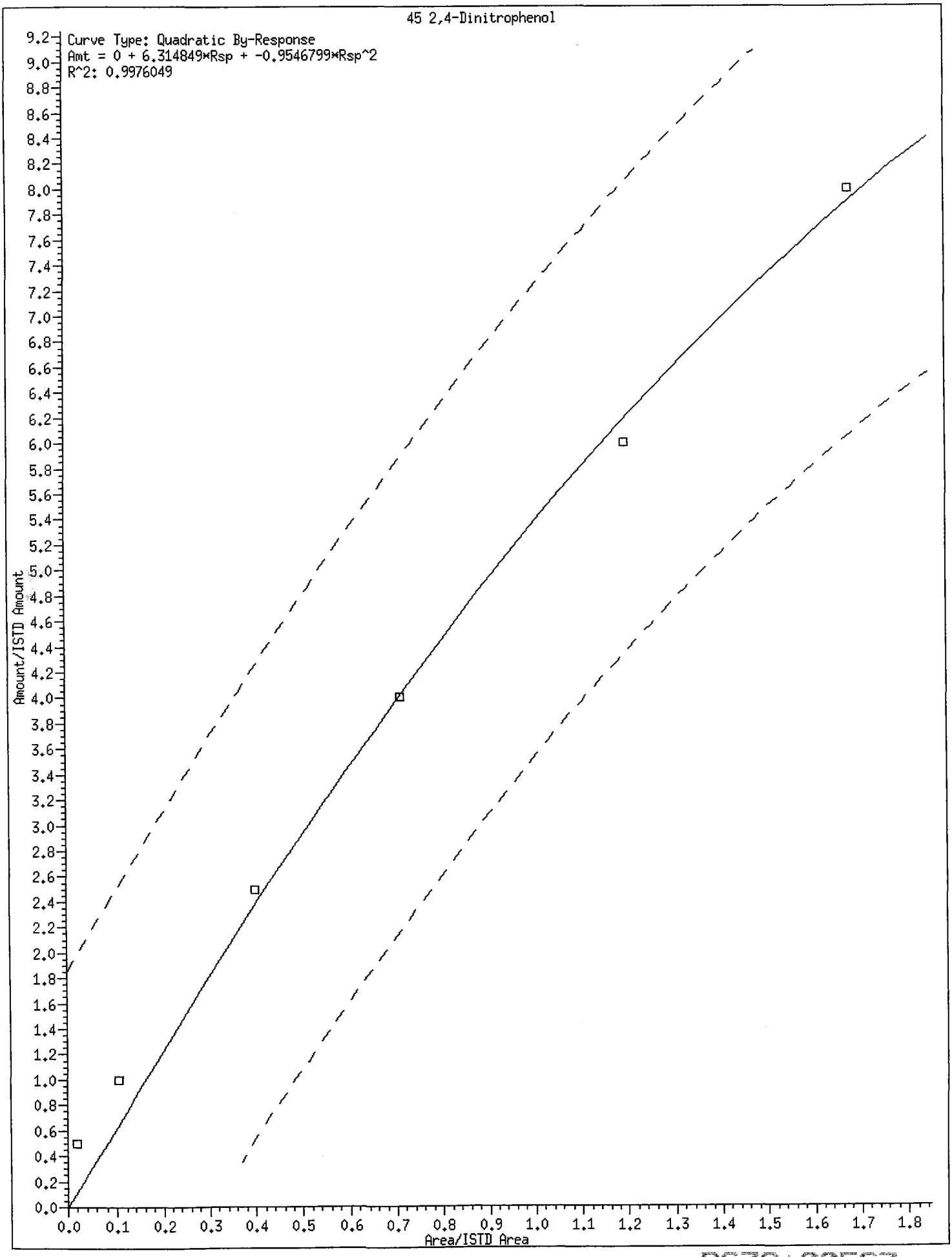
Start Cal Date : 19-JUL-2010 16:18
End Cal Date : 19-JUL-2010 19:48
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20100719.b/SW846100719.m
Cal Date : 20-Jul-2010 18:52 jianqing

07/20/10

Compound	1 Level 1	5 Level 2	10 Level 3	25 Level 4	40 Level 5	60 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	80 Level 7										
39 Dimethylphthalate	1.45154	1.30059	1.32041	1.28013	1.23687	1.16414					
	1.19011						AVRG		1.27768		7.48035
40 Acenaphthylene	1.94865	1.75474	1.75306	1.67242	1.55992	1.38771					
	1.40886						AVRG		1.64077		12.33449
41 2,6-Dinitrotoluene	0.24350	0.27750	0.29856	0.30488	0.30145	0.28576					
	0.30088						AVRG		0.28751		7.56349
43 3-Nitroaniline	0.26688	0.27225	0.29172	0.27509	0.24490	0.21809					
	0.20565						AVRG		0.25351		12.55145
44 Acenaphthene	1.24498	1.09893	1.11201	1.06610	1.03099	0.94431					
	0.98045						AVRG		1.06825		9.24750
45 2,4-Dinitrophenol	+++++	10990	84130	317048	599293	1050607					
	1116227						QUAD	0.000e+00	6.31485	-0.95468	0.99760
46 Dibenzofuran	1.64581	1.49192	1.49840	1.42404	1.35991	1.25954					
	1.28807						AVRG		1.42396		9.46465


24 Benzoic acid
Curve Type: Linear By-Response
Amt = 0 + Rsp/0.2741564
R^2: 0.9962417
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
9.8
9.6
9.4
9.2
9.0
8.8
8.6
8.4
8.2
8.0
7.8
7.6
7.4
7.2
7.0
6.8
6.6
6.4
6.2
6.0
5.8
5.6
5.4
5.2
5.0
4.8
4.6
4.4
4.2
4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0

RG79:00566


45 2,4-Dinitrophenol
Curve Type: Quadratic By-Response
Amt = 0 + 6.314849*Rsp + -0.9546799*Rsp^2
R^2: 0.9976049
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 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6 5.8 6.0 6.2 6.4 6.6 6.8 7.0 7.2 7.4 7.6 7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2
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

RG79:00567

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-JUL-2010 16:18
End Cal Date : 19-JUL-2010 19:48
Quant Method : ISTD
Origin : Force
Target Version : 3.50
Integrator : HP RTE
Method file : /chem3/nt4.i/20100719.b/SW846100719.m
Cal Date : 20-Jul-2010 18:52 jianqing

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

RG79:69559

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Batch File: /chem3/nt4.i/20100719.b
Inst ID: nt4.i

07/20/10

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	07191001	07191002	07191003	07191004	07191005	07191006	07191007
INJ.DATE:	19-JUL-2010	19-JUL-2010	19-JUL-2010	19-JUL-2010	19-JUL-2010	19-JUL-2010	19-JUL-2010
INJ.TIME:	16:18	16:56	17:33	18:07	18:41	19:14	19:48

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
$ 1 2-Fluorophenol	6.736	6.727	6.724	6.731	6.738	6.742	6.737	6.736	3.736-9.736	6.734	0.006
186 Carbaryl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.584	13.584-19.584	+++++	+++++
179 n-Decane	8.498	8.495	8.498	8.500	8.500	8.504	8.505	8.498	5.498-11.498	8.500	0.003
180 n-Octadecane	15.876	15.874	15.876	15.878	15.879	15.882	15.883	15.876	12.876-18.876	15.878	0.003
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.531	15.531-21.531	+++++	+++++
170 N,N-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.634	13.634-19.634	+++++	+++++
171 2,3-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.609	14.609-20.609	+++++	+++++
172 2,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.863	13.863-19.863	+++++	+++++
173 2,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.605	17.605-23.605	+++++	+++++
174 2,6-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.015	14.015-20.015	+++++	+++++
175 3,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.609	14.609-20.609	+++++	+++++
176 3,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.562	14.562-20.562	+++++	+++++
177 p-Benzoquinone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.654	6.654-12.654	+++++	+++++
168 Pentachlorobenzene	13.985	13.976	13.979	13.981	13.987	13.991	13.992	13.985	10.985-16.985	13.984	0.006
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.212	44.212-50.212	+++++	+++++
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.746	44.746-50.746	+++++	+++++
147 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.216	45.216-51.216	+++++	+++++

Reviewer 1 _____ Date: _____
Reviewer 2 _____ Date: 7/22/10

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Batch File: /chem3/nt4.i/20100719.b
Inst ID: nt4.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
148 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.281	44.281-50.281	+++++	+++++
149 TCMX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.387	40.387-46.387	+++++	+++++
150 DCBP	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.989	47.989-53.989	+++++	+++++
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	67.733	64.733-70.733	+++++	+++++
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.067	62.067-68.067	+++++	+++++
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
142 1,2-Dibromo-3-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.917	46.917-52.917	+++++	+++++
135 2,3,5,6-Tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.269	36.269-42.269	+++++	+++++
136 2,3,4,5-tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.317	36.317-42.317	+++++	+++++
$ 137 d8-1,4-Dioxane	3.440	3.420	3.417	3.448	3.448	3.452	3.424	3.440	0.440-6.440	3.436	0.015
* 134 Di-n-octylphthalate-d4	21.451	21.449	21.451	21.447	21.453	21.457	21.458	21.451	18.451-24.451	21.452	0.004
133 Butylatedhydroxytoluen	13.768	13.765	13.767	13.763	13.770	13.773	13.774	13.768	10.768-16.768	13.769	0.004
132 3,6-Dimethylphenanthre	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.450	62.450-68.450	+++++	+++++
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	64.400	61.400-67.400	+++++	+++++
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	62.100	59.100-65.100	+++++	+++++
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.912	51.912-57.912	+++++	+++++
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.212	51.212-57.212	+++++	+++++
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	57.650	54.650-60.650	+++++	+++++
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.750	53.750-59.750	+++++	+++++
144 alpha-Terpineol	10.783	10.775	10.777	10.773	10.786	10.789	10.790	10.783	7.783-13.783	10.782	0.007
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.166	49.166-55.166	+++++	+++++

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Batch File: /chem3/nt4.i/20100719.b
Inst ID: nt4.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.617	47.617-53.617	+++++	+++++
123 Acetophenone	9.379	9.371	9.373	9.375	9.382	9.391	9.392	9.379	6.379-12.379	9.380	0.008
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.467	40.467-46.467	+++++	+++++
143 1,4-Dioxane	3.511	3.485	3.487	3.512	3.513	3.522	3.494	3.511	0.511-6.511	3.504	0.015
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.500	51.500-57.500	+++++	+++++
120 2,3,4,6-Tetrachlorophe	14.214	14.211	14.214	14.210	14.216	14.220	14.221	14.214	11.214-17.214	14.215	0.004
178 2-Benzyl-4-Chloropheno	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.282	9.282-15.282	+++++	+++++
119 7,12-Dimethylbenz(a)an	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.069	44.069-50.069	+++++	+++++
118 Triphenyl Phosphate	19.859	19.857	19.853	19.855	19.861	19.865	19.866	19.859	16.859-22.859	19.860	0.005
117 Butyl Diphenyl Phospha	18.238	18.235	18.232	18.234	18.240	18.244	18.245	18.238	15.238-21.238	18.238	0.005
116 Dibutyl Phenyl Phospha	16.529	16.526	16.528	16.524	16.531	16.534	16.535	16.529	13.529-19.529	16.530	0.004
115 Tributyl Phosphate	14.778	14.769	14.766	14.768	14.792	14.801	14.802	14.778	11.778-17.778	14.782	0.016
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.950	45.950-51.950	+++++	+++++
113 Diphenyl Oxide	12.863	12.860	12.863	12.864	12.865	12.869	12.870	12.863	9.863-15.863	12.865	0.003
112 Biphenyl	12.675	12.672	12.675	12.671	12.677	12.681	12.682	12.675	9.675-15.675	12.676	0.004
111 Azobenzene (1,2-DP-Hyd	14.766	14.758	14.760	14.762	14.774	14.778	14.779	14.766	11.766-17.766	14.768	0.009
110 Tetrachloroguaiacol	15.959	15.950	15.947	15.948	15.961	15.970	15.971	15.959	12.959-18.959	15.958	0.010
109 3,4,5-Trichloroguaiaco	14.308	14.305	14.302	14.304	14.310	14.314	14.315	14.308	11.308-17.308	14.308	0.005
181 3,4,6-Trichloroguaiaco	14.431	14.429	14.425	14.427	14.434	14.437	14.444	14.431	11.431-17.431	14.432	0.006
108 4,5,6-Trichloroguaiaco	15.342	15.339	15.342	15.338	15.344	15.353	15.349	15.342	12.342-18.342	15.344	0.006
184 3,4-Dichloroguaiacol	12.757	12.754	12.751	12.753	12.759	12.763	12.764	12.757	9.757-15.757	12.757	0.005
107 4,5-Dichloroguaiacol	13.539	13.530	13.527	13.528	13.541	13.544	13.545	13.539	10.539-16.538	13.536	0.008
182 4,6-Dichloroguaiacol	13.568	13.559	13.562	13.563	13.570	13.579	13.580	13.568	10.568-16.568	13.569	0.008
185 4-Chloroguaiacol	11.653	11.650	11.653	11.648	11.655	11.658	11.660	11.653	8.653-14.653	11.654	0.004

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Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
106 Guaiacol	9.638	9.629	9.632	9.633	9.640	9.644	9.645	9.638	6.638-12.638	9.637	0.006
105 1-methylnaphthalene	12.076	12.073	12.070	12.071	12.078	12.081	12.082	12.076	9.076-15.076	12.076	0.005
151 1,2,4,5-Tetrachloroben	12.240	12.237	12.234	12.236	12.242	12.246	12.247	12.240	9.240-15.240	12.240	0.005
152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	30.943	27.943-33.943	+++++	+++++
153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.442	20.442-26.442	+++++	+++++
154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.968	18.968-24.968	+++++	+++++
155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.466	20.466-26.466	+++++	+++++
156 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.866	19.866-25.866	+++++	+++++
157 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.413	20.413-26.413	+++++	+++++
158 Ethion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.952	21.952-27.952	+++++	+++++
159 4-Nonylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.721	18.721-24.721	+++++	+++++
160 Tetraethyl Tin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.159	15.159-21.159	+++++	+++++
161 1,2,3-Trichloronaphtha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	36.246	33.246-39.246	+++++	+++++
162 1,2,3,4-Tetrachloronap	+++++	+++++	+++++	+++++	+++++	+++++	+++++	37.506	34.506-40.506	+++++	+++++
163 1,2,3,5,8-Pentachloron	+++++	+++++	+++++	+++++	+++++	+++++	+++++	38.893	35.893-41.893	+++++	+++++
164 1,2,3,4,6,7-Hexachloro	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.681	36.681-42.681	+++++	+++++
165 1,2,3,4,5,6,7-Heptachl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	41.123	38.123-44.123	+++++	+++++
166 Octachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.253	39.253-45.253	+++++	+++++
167 2,2',4,4',5-Pentabromo	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.033	39.033-45.033	+++++	+++++
$ 2 Phenol-d5	8.216	8.208	8.210	8.212	8.224	8.228	8.229	8.216	5.216-11.216	8.218	0.009
3 Phenol	8.234	8.225	8.228	8.229	8.242	8.251	8.252	8.234	5.234-11.234	8.237	0.011
4 Bis(2-Chloroethyl)ethe	8.346	8.337	8.339	8.341	8.348	8.351	8.352	8.346	5.346-11.346	8.345	0.006
$ 5 2-Chlorophenol-d4	8.387	8.384	8.386	8.388	8.395	8.398	8.393	8.387	5.387-11.387	8.390	0.005

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	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	6 2-Chlorophenol	8.416	8.407	8.410	8.412	8.418	8.422	8.423	8.416	5.416-11.416	8.415	0.006
	7 1,3-Dichlorobenzene	8.633	8.631	8.633	8.635	8.636	8.639	8.640	8.633	5.633-11.633	8.635	0.003
*	8 1,4-Dichlorobenzene-d4	8.698	8.689	8.692	8.694	8.694	8.698	8.699	8.698	5.698-11.698	8.695	0.004
	9 1,4-Dichlorobenzene	8.721	8.713	8.715	8.717	8.724	8.721	8.722	8.721	5.721-11.721	8.719	0.004
$	10 1,2-Dichlorobenzene-d4	8.998	8.995	8.991	8.993	9.000	8.997	8.998	8.998	5.998-11.998	8.996	0.003
	11 Benzyl alcohol	8.956	8.948	8.944	8.952	8.959	8.968	8.969	8.956	5.956-11.956	8.957	0.009
	12 1,2-Dichlorobenzene	9.015	9.012	9.015	9.017	9.017	9.021	9.022	9.015	6.015-12.015	9.017	0.003
	13 2-Methylphenol	9.174	9.159	9.162	9.164	9.176	9.179	9.181	9.174	6.174-12.174	9.171	0.009
	14 2,2'-oxybis(1-Chloropr	9.209	9.206	9.203	9.205	9.211	9.215	9.216	9.209	6.209-12.209	9.209	0.005
	15 4-Methylphenol	9.397	9.388	9.391	9.393	9.405	9.414	9.415	9.397	6.397-12.397	9.401	0.011
	16 N-Nitroso-di-n-propyla	9.426	9.418	9.414	9.422	9.434	9.444	9.445	9.426	6.426-12.426	9.429	0.012
	17 Hexachloroethane	9.509	9.506	9.508	9.504	9.511	9.508	9.509	9.509	6.509-12.509	9.508	0.002
$	18 Nitrobenzene-d5	9.620	9.612	9.614	9.616	9.622	9.626	9.627	9.620	6.620-12.620	9.620	0.006
	19 Nitrobenzene	9.650	9.641	9.644	9.645	9.652	9.661	9.662	9.650	6.650-12.650	9.651	0.008
	20 Isophorone	10.026	10.017	10.014	10.015	10.028	10.037	10.038	10.026	7.026-13.026	10.025	0.010
	21 2-Nitrophenol	10.167	10.164	10.160	10.162	10.169	10.172	10.173	10.167	7.167-13.167	10.167	0.005
	22 2,4-Dimethylphenol	10.243	10.234	10.237	10.239	10.245	10.254	10.256	10.243	7.243-13.243	10.244	0.008
	23 Bis(2-Chloroethoxy)met	10.396	10.393	10.390	10.391	10.398	10.407	10.408	10.396	7.396-13.396	10.398	0.007
	24 Benzoic acid	10.466	10.317	10.354	10.397	10.509	10.560	10.567	10.466	7.466-13.466	10.453	0.099
	25 2,4-Dichlorophenol	10.543	10.534	10.531	10.538	10.545	10.548	10.549	10.543	7.543-13.543	10.541	0.007
	26 1,2,4-Trichlorobenzene	10.684	10.675	10.677	10.679	10.680	10.683	10.684	10.684	7.684-13.684	10.680	0.004
*	27 Naphthalene-d8	10.742	10.739	10.742	10.744	10.744	10.748	10.749	10.742	7.742-13.742	10.744	0.003
	28 Naphthalene	10.778	10.769	10.771	10.773	10.780	10.783	10.784	10.778	7.778-13.778	10.777	0.006
	29 4-Chloroaniline	10.901	10.898	10.895	10.896	10.903	10.907	10.908	10.901	7.901-13.901	10.901	0.005

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	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	30 Hexachlorobutadiene	11.083	11.080	11.083	11.084	11.085	11.083	11.084	11.083	8.083-14.083	11.083	0.002
	31 4-Chloro-3-methylpheno	11.694	11.691	11.688	11.690	11.696	11.700	11.701	11.694	8.694-14.694	11.694	0.005
	32 2-Methylnaphthalene	11.900	11.897	11.893	11.895	11.902	11.905	11.906	11.900	8.900-14.900	11.900	0.005
	33 Hexachlorocyclopentadi	12.281	12.273	12.275	12.277	12.278	12.281	12.282	12.281	9.281-15.281	12.278	0.004
	34 2,4,6-Trichlorophenol	12.405	12.402	12.404	12.400	12.407	12.410	12.411	12.405	9.405-15.405	12.406	0.004
	35 2,4,5-Trichlorophenol	12.463	12.461	12.457	12.459	12.466	12.469	12.470	12.463	9.463-15.463	12.464	0.005
$	36 2-Fluorobiphenyl	12.540	12.531	12.534	12.535	12.536	12.540	12.541	12.540	9.540-15.540	12.537	0.004
	37 2-Chloronaphthalene	12.687	12.684	12.686	12.682	12.689	12.698	12.699	12.687	9.687-15.687	12.689	0.007
	38 2-Nitroaniline	12.910	12.901	12.904	12.906	12.912	12.921	12.923	12.910	9.910-15.910	12.911	0.008
	39 Dimethylphthalate	13.268	13.260	13.262	13.264	13.276	13.286	13.287	13.268	10.268-16.268	13.272	0.011
	40 Acenaphthylene	13.374	13.371	13.374	13.370	13.376	13.380	13.381	13.374	10.374-16.374	13.375	0.004
	41 2,6-Dinitrotoluene	13.374	13.365	13.362	13.364	13.376	13.380	13.387	13.374	10.374-16.374	13.372	0.009
*	42 Acenaphthene-d10	13.627	13.624	13.626	13.628	13.629	13.632	13.633	13.627	10.627-16.627	13.628	0.003
	43 3-Nitroaniline	13.591	13.583	13.579	13.587	13.599	13.609	13.610	13.591	10.591-16.591	13.594	0.012
	44 Acenaphthene	13.679	13.677	13.673	13.675	13.682	13.691	13.686	13.679	10.679-16.679	13.680	0.006
	45 2,4-Dinitrophenol	13.756	13.741	13.744	13.751	13.764	13.779	13.780	13.756	10.756-16.756	13.759	0.016
	46 Dibenzofuran	13.944	13.935	13.938	13.939	13.946	13.949	13.951	13.944	10.944-16.944	13.943	0.006
	47 4-Nitrophenol	13.867	13.859	13.855	13.857	13.870	13.879	13.880	13.867	10.867-16.867	13.867	0.010
	48 2,4-Dinitrotoluene	14.008	14.000	13.996	13.998	14.011	14.020	14.021	14.008	11.008-17.008	14.008	0.010
	49 Fluorene	14.508	14.499	14.502	14.497	14.510	14.513	14.514	14.508	11.508-17.508	14.506	0.007
	50 Diethylphthalate	14.431	14.417	14.419	14.421	14.434	14.437	14.438	14.431	11.431-17.431	14.428	0.009
	51 4-Chlorophenyl-phenyle	14.514	14.505	14.508	14.509	14.516	14.519	14.514	14.514	11.514-17.514	14.512	0.005
	52 4-Nitroaniline	14.596	14.581	14.584	14.586	14.610	14.625	14.626	14.596	11.596-17.596	14.601	0.019
	53 4,6-Dinitro-2-methylph	14.672	14.664	14.660	14.662	14.680	14.695	14.697	14.672	11.672-17.672	14.676	0.015

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	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	54 N-Nitrosodiphenylamine	14.713	14.711	14.707	14.709	14.721	14.731	14.732	14.713	11.713-17.713	14.718	0.010
$	55 2,4,6-Tribromophenol	14.931	14.922	14.925	14.920	14.933	14.936	14.937	14.931	11.931-17.931	14.929	0.007
	56 4-Bromophenyl-phenylet	15.301	15.298	15.301	15.296	15.303	15.306	15.308	15.301	12.301-18.301	15.302	0.004
	57 Hexachlorobenzene	15.542	15.533	15.536	15.537	15.544	15.547	15.548	15.542	12.542-18.542	15.541	0.006
	58 Pentachlorophenol	15.830	15.827	15.823	15.825	15.832	15.841	15.842	15.830	12.830-18.830	15.831	0.007
*	59 Phenanthrene-d10	16.029	16.021	16.023	16.025	16.031	16.035	16.036	16.029	13.029-19.029	16.029	0.006
	60 Phenanthrene	16.064	16.056	16.058	16.060	16.073	16.076	16.077	16.064	13.064-19.064	16.066	0.009
	61 Anthracene	16.141	16.132	16.135	16.136	16.143	16.152	16.153	16.141	13.141-19.141	16.142	0.008
	62 Carbazole	16.411	16.408	16.405	16.407	16.413	16.423	16.424	16.411	13.411-19.411	16.413	0.007
	63 Di-n-butylphthalate	17.093	17.084	17.086	17.088	17.095	17.092	17.093	17.093	14.092-20.093	17.090	0.004
	64 Fluoranthene	18.021	18.012	18.015	18.016	18.023	18.026	18.027	18.021	15.021-21.021	18.020	0.006
	65 Pyrene	18.385	18.376	18.379	18.380	18.387	18.396	18.397	18.385	15.385-21.385	18.386	0.008
$	66 Terphenyl-d14	18.667	18.664	18.667	18.662	18.669	18.672	18.674	18.667	15.667-21.667	18.668	0.004
	67 Butylbenzylphthalate	19.536	19.528	19.530	19.532	19.538	19.542	19.543	19.536	16.536-22.536	19.536	0.006
	68 Benzo(a)anthracene	20.353	20.344	20.347	20.348	20.361	20.364	20.365	20.353	17.353-23.353	20.355	0.009
*	69 Chrysene-d12	20.382	20.374	20.376	20.378	20.384	20.388	20.389	20.382	17.382-23.382	20.381	0.006
	70 3,3'-Dichlorobenzidine	20.341	20.338	20.335	20.337	20.343	20.347	20.348	20.341	17.341-23.341	20.341	0.005
	71 Chrysene	20.423	20.415	20.411	20.413	20.425	20.435	20.436	20.423	17.423-23.423	20.423	0.010
	72 bis(2-Ethylhexyl)phtha	20.517	20.515	20.511	20.513	20.514	20.517	20.518	20.517	17.517-23.517	20.515	0.003
	73 Di-n-octylphthalate	21.463	21.454	21.457	21.459	21.465	21.469	21.470	21.463	18.463-24.463	21.462	0.006
	74 Benzo(b)fluoranthene	22.021	22.012	22.015	22.017	22.029	22.038	22.040	22.021	19.021-25.021	22.025	0.011
	75 Benzo(k)fluoranthene	22.056	22.048	22.044	22.046	22.064	22.074	22.075	22.056	19.056-25.056	22.058	0.013
	187 Total Benzofluoranthen	22.056	22.012	22.044	22.046	22.064	22.074	22.075	22.056	19.056-25.056	22.053	0.022
	76 Benzo(a)pyrene	22.491	22.482	22.485	22.481	22.499	22.508	22.510	22.491	19.491-25.491	22.494	0.012

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	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
*	77 Perylene-d12	22.579	22.571	22.573	22.575	22.575	22.579	22.580	22.579	19.579-25.579	22.576	0.004
	78 Indeno(1,2,3-cd)pyrene	24.424	24.403	24.406	24.413	24.438	24.453	24.454	24.424	21.424-27.424	24.427	0.021
	79 Dibenzo(a,h)anthracene	24.447	24.421	24.429	24.431	24.455	24.471	24.477	24.447	21.447-27.447	24.447	0.022
	80 Benzo(g,h,i)perylene	24.958	24.926	24.929	24.936	24.972	24.987	24.989	24.958	21.958-27.958	24.957	0.027
$	85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	51.633	48.633-54.633	+++++	+++++
$	86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	63.533	60.533-66.533	+++++	+++++
$	87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	60.273	57.273-63.273	+++++	+++++
$	88 Dibenz(a,h)anthracene-	+++++	+++++	+++++	+++++	+++++	+++++	+++++	78.600	75.600-81.600	+++++	+++++
$	89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.841	47.841-53.841	+++++	+++++
	90 N-Nitrosodimethylamine	4.280	4.260	4.257	4.276	4.288	4.298	4.281	4.280	1.280-7.280	4.277	0.015
	91 Aniline	8.246	8.237	8.240	8.241	8.248	8.251	8.252	8.246	5.246-11.246	8.245	0.006
	92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.160	53.160-59.160	+++++	+++++
	93 Benzidine	18.250	18.247	18.244	18.245	18.252	18.255	18.251	18.250	15.250-21.250	18.249	0.004
$	95 D10-1-methylnaphthalen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.075	49.075-55.075	+++++	+++++
	96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.250	46.250-52.250	+++++	+++++
	97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	61.202	58.202-64.202	+++++	+++++
	98 Retene	18.925	18.923	18.925	18.921	18.927	18.931	18.932	18.925	15.925-21.925	18.926	0.004
	99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	31.125	28.125-34.125	+++++	+++++
	100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.475	21.475-27.475	+++++	+++++
	101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.481	21.481-27.481	+++++	+++++
	102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	79.550	76.550-82.550	+++++	+++++
	103 Pyridine	4.251	4.272	4.245	4.258	4.253	4.257	4.240	4.251	1.251-7.251	4.254	0.010

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/nt4.i/20100719.b

ARI Job No.: IC25 Method: SW846100719.m Instrument: nt4.i Date: 19-JUL-2010

AZ 07/21/10

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1618	07191001.d	IC250719	IC250719	1	NO MANUAL INTEGRATION
1656	07191002.d	IC010719	IC010719	1	Benzoic acid, 3-Nitroaniline, 4-Nitrophenol, 4-Nitroaniline, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene, Benzidine, Pyridine, Total Benzofluoranthenes, 1,2-Dichlorobenzene-d4,
1733	07191003.d	IC050719	IC050719	1	NO MANUAL INTEGRATION
1807	07191004.d	IC100719	IC100719	1	NO MANUAL INTEGRATION
1841	07191005.d	IC400719	IC400719	1	NO MANUAL INTEGRATION
1914	07191006.d	IC600719	IC600719	1	Benzoic acid,
1948	07191007.d	IC800719	IC800719	1	Benzoic acid, 4-Nitrophenol,
2021	07191008.d	ICV0719	ICV0719	1	NO MANUAL INTEGRATION

Analytical Resources Inc.: Organics Instrument Log

NT-4 Serial No.: GC = US00010849; MS = US72821113

Date: 7/16/10 (19) Analysis: 8270 Analyst: JB

GC Program: RBN Column No: 172294 Column Type: ZB-5MS

Instrument Tune (.U or .CT.): 100716 EM Voltage: 1353

Calibration File: 071910D Curve Date: ~~07/16/10~~ 7/19/10 JB

IS/SS	Ical/Ccal	LCS/ICV
1627-1	17473, 1733-1	1761-3, 1713-1
	1735-1, 1736-1	1721-2, 1730-1
	15019, 1740-2	15019, 1740-2

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt4.i/20100719.b

	Time	Filename	LabID	ClientId	DF											
1	1618	07191001.d	IC250719	IC250719	1	8.70	356478	10.74	1293412	13.63	785897	16.03	1313990	20.38	1155293	22.58	1146289	21.45	1825297
2	1656	07191002.d	IC010719	IC010719	1	8.69	290756	10.74	1025728	13.62	609037	16.02	1031072	20.37	888098	22.57	896867	21.45	1405493
3	1733	07191003.d	IC050719	IC050719	1	8.69	280196	10.74	1016171	13.63	598563	16.02	1007780	20.38	879562	22.57	872109	21.45	1375669
4	1807	07191004.d	IC100719	IC100719	1	8.69	386803	10.74	1330824	13.63	805701	16.02	1335679	20.38	1209826	22.57	1193862	21.45	1905755
5	1841	07191005.d	IC400719	IC400719	1	8.69	381018	10.74	1340154	13.63	839318	16.03	1371590	20.38	1264495	22.58	1213809	21.45	1902533
6	1914	07191006.d	IC600719	IC600719	1	8.70	397320	10.75	1461536	13.63	877821	16.03	1448224	20.39	1294779	22.58	1277873	21.46	1930038
7	1948	07191007.d	IC800719	IC800719	1	8.70	300879	10.75	1123708	13.63	665405	16.04	1124245	20.39	968321	22.58	976271	21.46	1492891
8	2021	07191008.d	ICV0719	ICV0719	1	8.69	289791	10.74	1041288	13.62	632100	16.03	1057026	20.38	945392	22.57	894258	21.45	1458222

JB 07/21/10

Maintenance / Comments

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.

Data File: /chem3/nt4.i/20100719.b/tune.b/07191001.d

Date : 19-JUL-2010 16:18

Client ID: DFTPP0719

Instrument: nt4.i

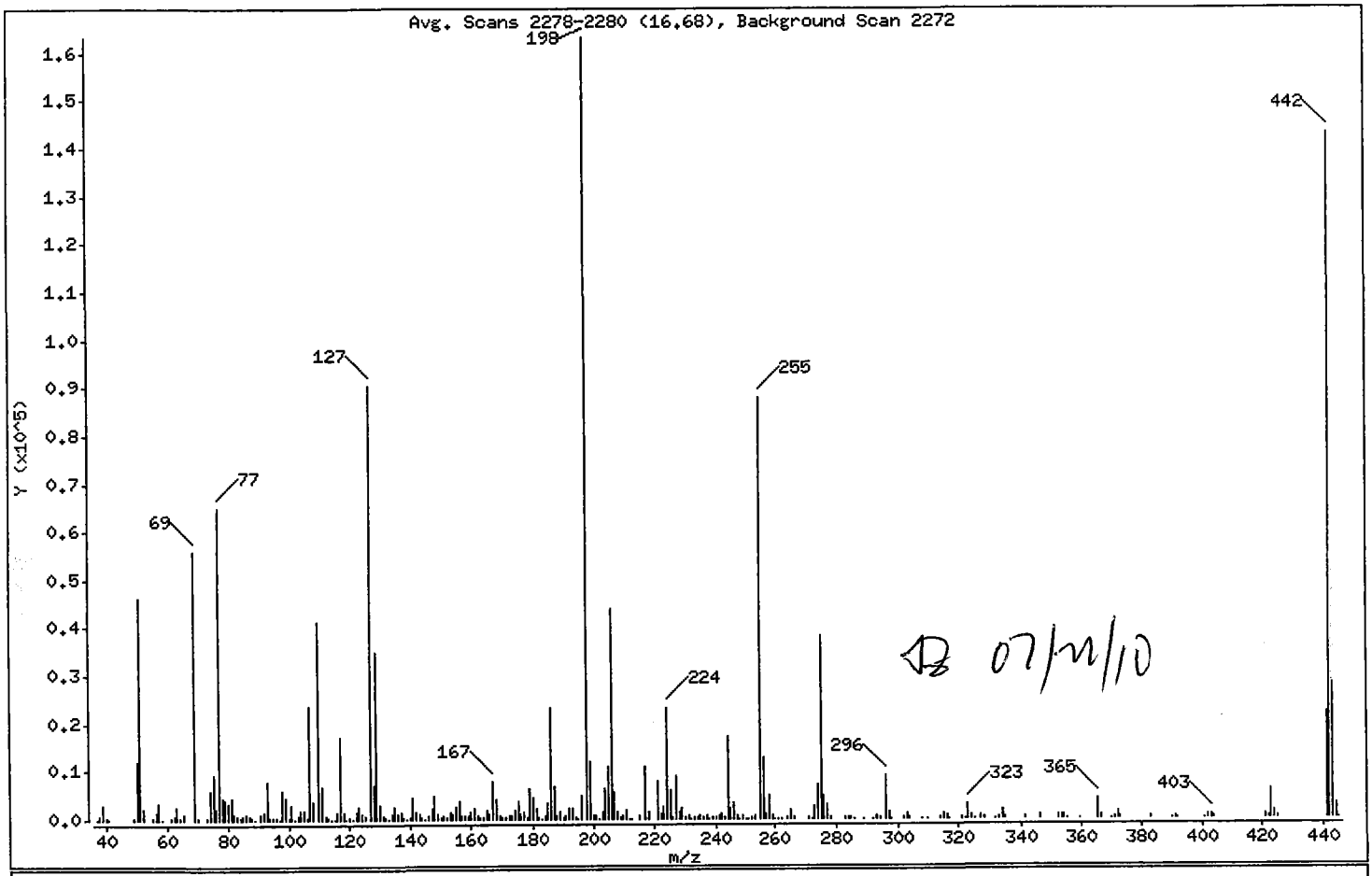
Sample Info: DFTPP0719

Operator: JZ

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	10.00 - 80.00% of mass 198	28.30
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	34.18
70	Less than 2.00% of mass 69	0.18 (0.54)
127	10.00 - 80.00% of mass 198	55.45
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.26
275	10.00 - 60.00% of mass 198	23.41
365	Greater than 1.00% of mass 198	2.50
441	0.01 - 24.00% of mass 442	13.47 (15.37)
442	50.00 - 200.00% of mass 198	87.66
443	15.00 - 24.00% of mass 442	17.32 (19.76)

Data File: /chem3/nt4.i/20100719.b/tune.b/07191001.d

Date : 19-JUL-2010 16:18

Client ID: DFTPP0719

Instrument: nt4.i

Sample Info: DFTPP0719

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: 07191001.d

Spectrum: Avg. Scans 2278-2280 (16,68), Background Scan 2272

Location of Maximum: 198.00

Number of points: 274

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	119	124.00	1068	194.00	516	274.00	6952
38.00	626	125.00	928	195.00	74	275.00	38240
39.00	3155	127.00	90568	196.00	4842	276.00	4902
40.00	240	128.00	7240	198.00	163328	277.00	3117
41.00	133	129.00	34976	199.00	11863	278.00	490
49.00	341	130.00	3136	200.00	903	283.00	378
50.00	12091	131.00	637	201.00	766	284.00	198
51.00	46216	132.00	342	202.00	187	285.00	490
52.00	2279	133.00	153	203.00	1329	286.00	65
55.00	297	134.00	1129	204.00	6388	289.00	110
56.00	1438	135.00	2602	205.00	10845	292.00	155
57.00	3212	136.00	1014	206.00	44056	293.00	700
58.00	135	137.00	1442	207.00	5697	294.00	220
61.00	549	138.00	343	208.00	1620	296.00	9048
62.00	790	139.00	162	209.00	354	297.00	1458
63.00	2458	140.00	293	210.00	768	298.00	53
64.00	336	141.00	4488	211.00	2062	302.00	218
65.00	1093	142.00	1318	212.00	166	303.00	1189
69.00	55832	143.00	949	213.00	136	304.00	343
70.00	301	144.00	361	215.00	571	308.00	99
73.00	194	145.00	149	217.00	11029	310.00	86
74.00	5838	146.00	933	218.00	1504	314.00	446
75.00	9200	147.00	2243	221.00	7732	315.00	1132
76.00	2411	148.00	4838	222.00	1169	316.00	637
77.00	64832	149.00	1154	223.00	2692	317.00	83
78.00	4584	150.00	297	224.00	23456	321.00	312
79.00	4287	151.00	712	225.00	6043	322.00	133
80.00	3333	152.00	458	226.00	467	323.00	3131
81.00	4634	153.00	1366	227.00	9060	324.00	671
82.00	1207	154.00	1075	228.00	1570	325.00	51
83.00	927	155.00	2457	229.00	2131	327.00	645
84.00	269	156.00	3710	230.00	278	328.00	320
85.00	789	157.00	774	231.00	800	332.00	166
86.00	948	158.00	741	232.00	137	333.00	387
87.00	602	159.00	635	233.00	218	334.00	2050

Data File: /chem3/nt4.i/20100719.b/tune.b/07191001.d

Date : 19-JUL-2010 16:18

Client ID: DFTPP0719

Instrument: nt4.i

Sample Info: DFTPP0719

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: 07191001.d

Spectrum: Avg. Scans 2278-2280 (16,68), Background Scan 2272

Location of Maximum: 198.00

Number of points: 274

m/z	Y	m/z	Y	m/z	Y	m/z	Y
88.00	274	160.00	1414	234.00	561	335.00	456
89.00	140	161.00	2227	235.00	806	341.00	328
91.00	1126	162.00	641	236.00	506	346.00	618
92.00	1437	163.00	254	237.00	841	352.00	919
93.00	7814	164.00	284	238.00	65	353.00	651
94.00	392	165.00	1814	239.00	363	354.00	938
95.00	194	166.00	1157	240.00	376	355.00	90
96.00	431	167.00	7700	241.00	578	359.00	57
97.00	63	168.00	4026	242.00	1185	365.00	4085
98.00	5863	169.00	685	243.00	462	366.00	751
99.00	4521	170.00	323	244.00	17144	370.00	62
100.00	429	171.00	443	245.00	2104	371.00	244
101.00	2891	172.00	734	246.00	3475	372.00	1497
102.00	148	173.00	921	247.00	804	373.00	472
103.00	837	174.00	1805	248.00	141	383.00	429
104.00	1882	175.00	3722	249.00	685	390.00	161
105.00	1824	176.00	1027	250.00	67	391.00	235
106.00	256	177.00	1400	251.00	147	392.00	78
107.00	23808	178.00	437	252.00	188	401.00	53
108.00	3656	179.00	6417	253.00	579	402.00	748
110.00	41184	180.00	4403	255.00	87864	403.00	833
111.00	6615	181.00	2289	256.00	12866	404.00	311
112.00	697	182.00	438	257.00	1093	421.00	791
113.00	280	183.00	173	258.00	4775	422.00	405
114.00	62	184.00	574	259.00	669	423.00	5987
115.00	172	185.00	3393	260.00	130	424.00	1326
116.00	1343	186.00	23320	261.00	146	425.00	201
117.00	17168	187.00	6795	262.00	58	441.00	22008
118.00	1429	188.00	689	264.00	215	442.00	143168
119.00	139	189.00	1412	265.00	1846	443.00	28288
120.00	356	190.00	292	266.00	390	444.00	2849
121.00	75	191.00	714	271.00	396	445.00	152
122.00	1440	192.00	2176	272.00	150		
123.00	2633	193.00	2306	273.00	2780		

Data File: /chem3/nt4.i/20100719.b/tune.b/07191001.d

Date : 19-JUL-2010 16:18

Client ID: DFTPP0719

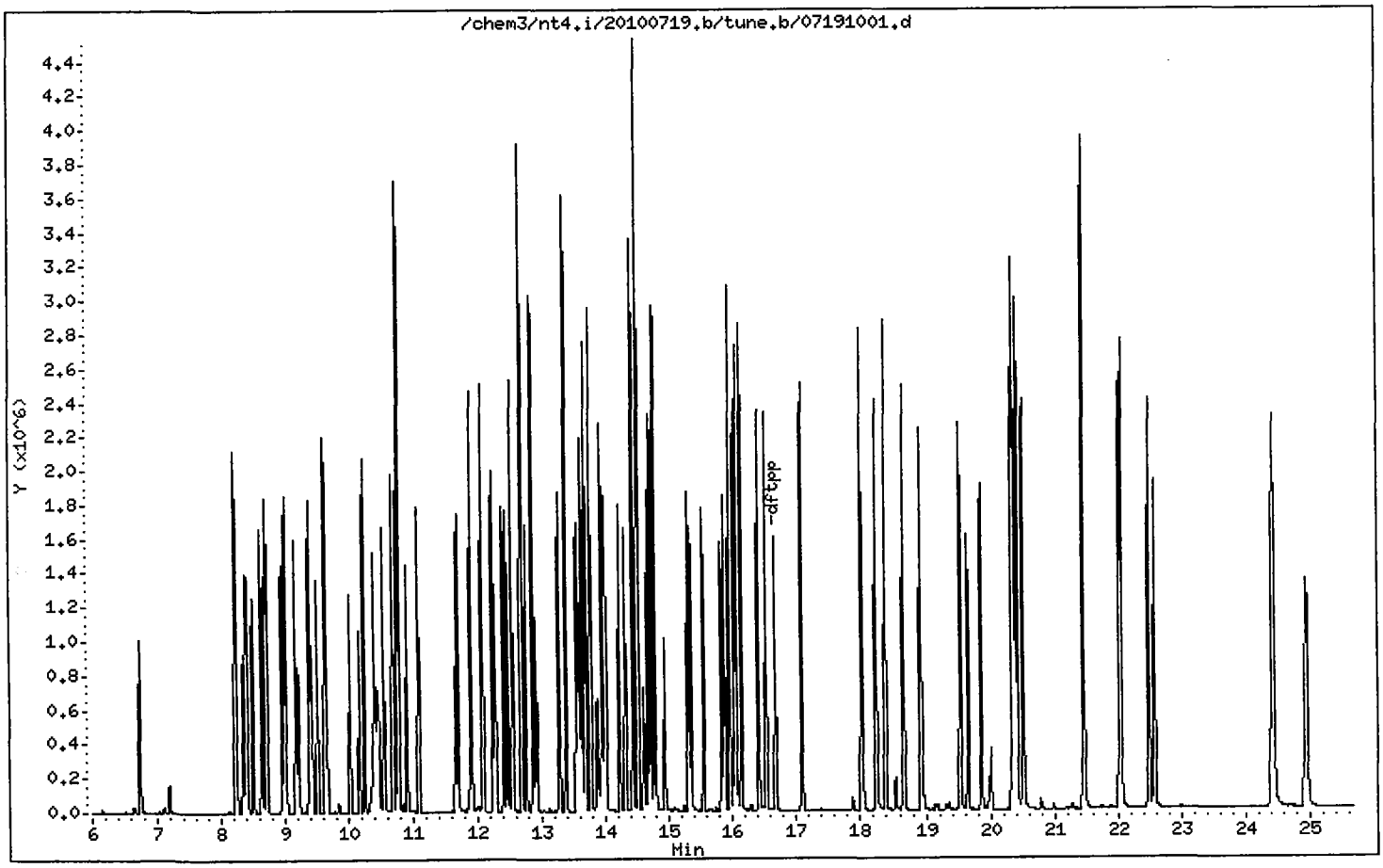
Instrument: nt4.i

Sample Info: DFTPP0719

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt4.i/20100719.b/ddt.b/07191001.d ARI ID: IC250719
Method: /chem3/nt4.i/20100719.b/ddt.b/sw846ddt.m Misc: 10-
Analysis Date: 19-JUL-2010 16:18 Instrument: nt4.i

COMPOUND	RT	AREA
Pentachlorophenol	15.830	246760
Benzidine	13.756	317048
4,4'-DDE	----	----
4,4'-DDD	19.172	9246
4,4'-DDT	19.654	449440

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(0 + 9246) * 100}{(0 + 9246 + 449440)}$$

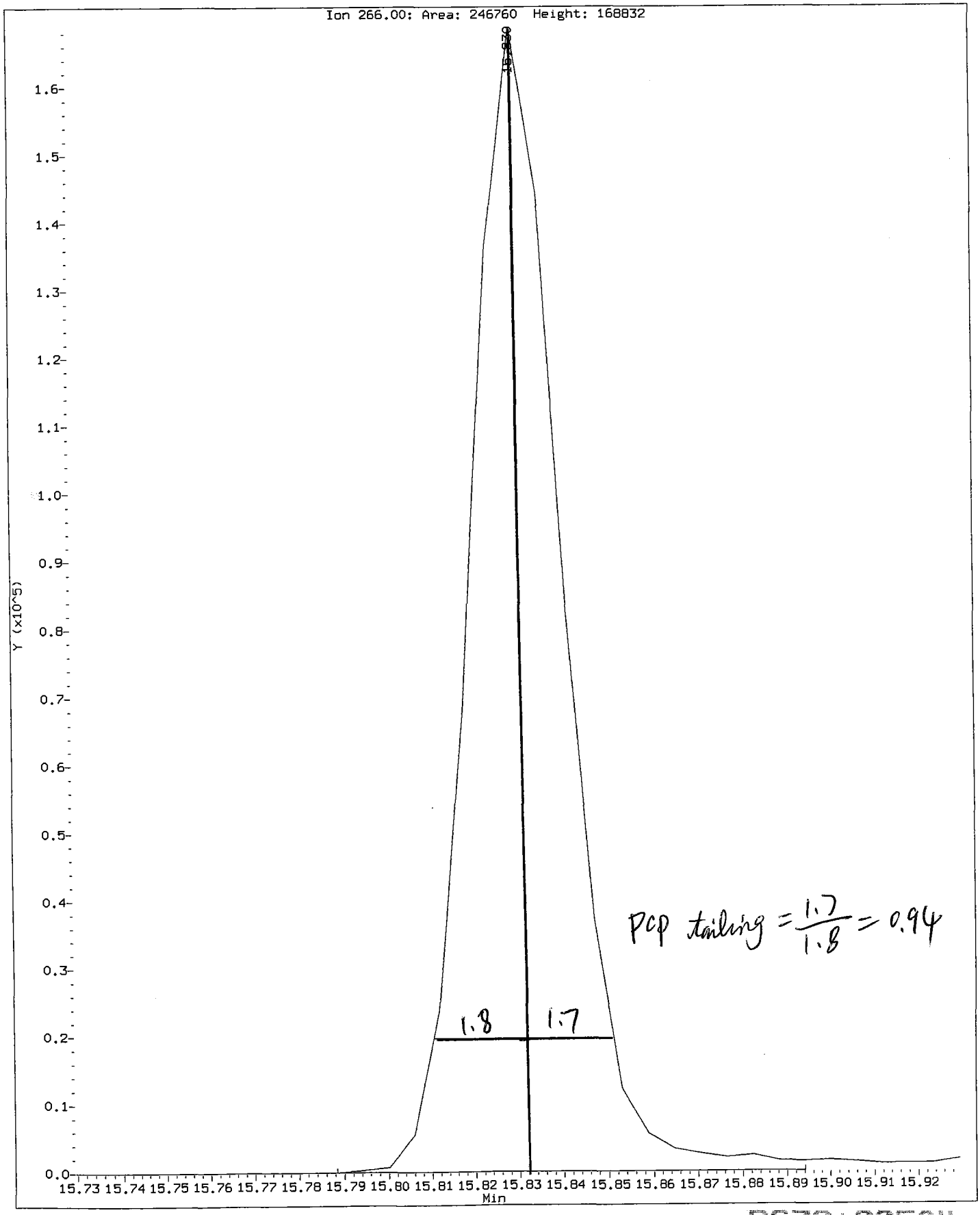
DDT Percent Breakdown = 2.0 %

OK

DL 07/21/10

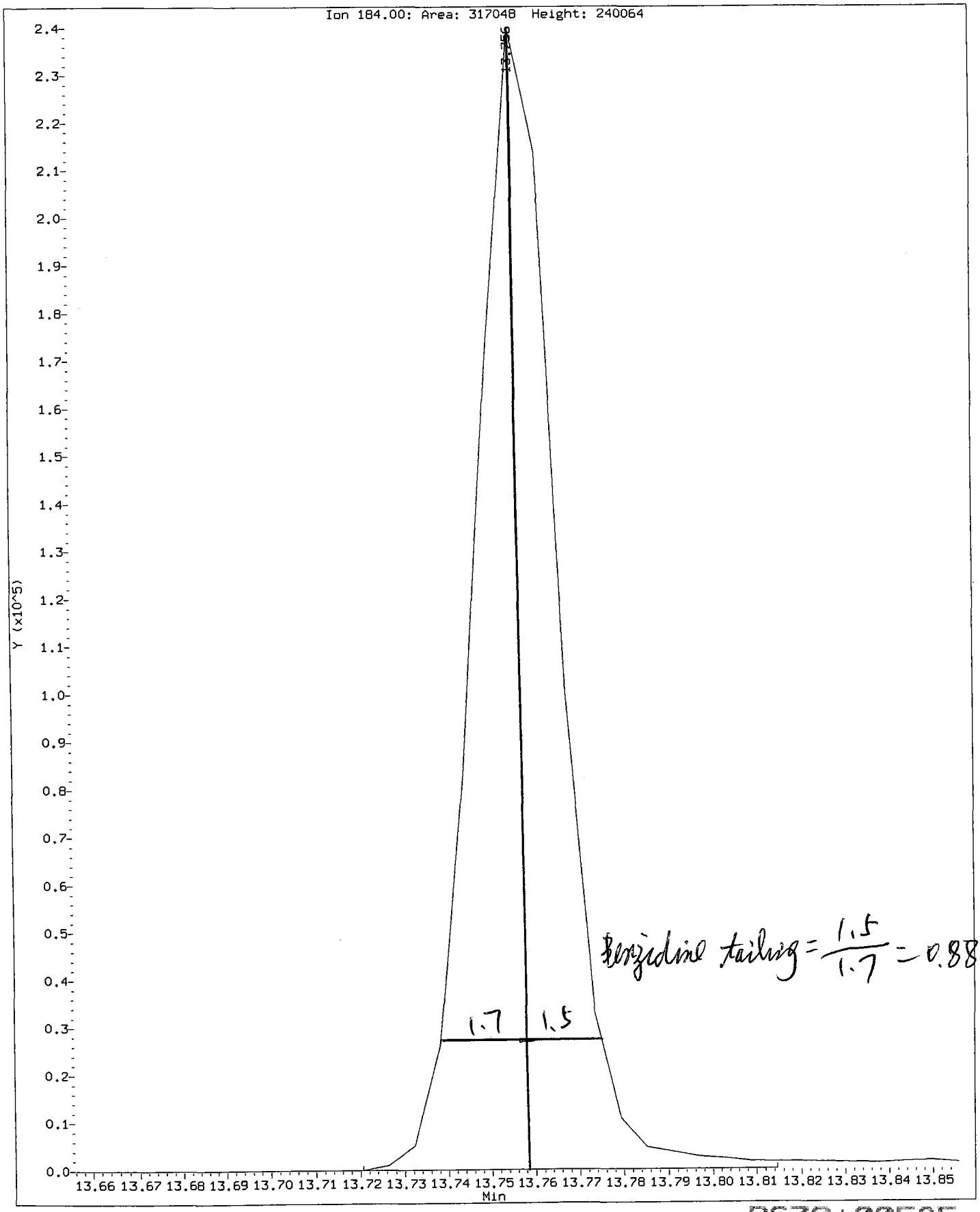
Data File: /chem3/nt4.i/20100719.b/ddt.b/07191001.d
Injection Date: 19-JUL-2010 16:18
Instrument: nt4.i
Client Sample ID: IC250719

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt4.i/20100719.b/ddt.b/07191001.d
Injection Date: 19-JUL-2010 16:18
Instrument: nt4.i
Client Sample ID: IC250719

Compound: Benzidine
CAS Number:



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100719.b/07191002.d
Lab Smp Id: IC010719 Client Smp ID: IC010719
Inj Date : 19-JUL-2010 16:56
Operator : JZ Inst ID: nt4.i
Smp Info : IC010719
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100719.b/SW846100719.m
Meth Date : 21-Jul-2010 18:37 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 16:56 Cal File: 07191002.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

JZ 07/21/10

AMOUNTS

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.727	6.737	(0.774)	16929	1.00000	1.000
$	2 Phenol-d5	99	8.208	8.229	(0.945)	15849	1.00000	1.000
	3 Phenol	94	8.225	8.252	(0.947)	22145	1.00000	1.000
$	5 2-Chlorophenol-d4	132	8.384	8.393	(0.965)	17674	1.00000	1.000
	4 Bis(2-Chloroethyl)ether	93	8.337	8.352	(0.959)	16775	1.00000	1.000
	6 2-Chlorophenol	128	8.407	8.423	(0.968)	20019	1.00000	1.000
	7 1,3-Dichlorobenzene	146	8.631	8.640	(0.993)	24857	1.00000	1.000
*	8 1,4-Dichlorobenzene-d4	152	8.689	8.699	(1.000)	290756	20.0000	
	9 1,4-Dichlorobenzene	146	8.713	8.722	(1.003)	24688	1.00000	1.000
$	10 1,2-Dichlorobenzene-d4	152	8.995	8.998	(1.035)	14140	1.00000	1.000(M)
	12 1,2-Dichlorobenzene	146	9.012	9.022	(1.037)	22982	1.00000	1.000
	14 2,2'-oxybis(1-Chloropropane)	45	9.206	9.216	(1.059)	16487	1.00000	1.000
	13 2-Methylphenol	108	9.159	9.181	(1.054)	14573	1.00000	1.000
	17 Hexachloroethane	117	9.506	9.509	(1.094)	8597	1.00000	1.000
	16 N-Nitroso-di-n-propylamine	70	9.418	9.445	(1.084)	11445	1.00000	1.000
	15 4-Methylphenol	108	9.388	9.415	(1.080)	15650	1.00000	1.000
$	18 Nitrobenzene-d5	82	9.612	9.627	(0.895)	16718	1.00000	1.000
	19 Nitrobenzene	77	9.641	9.662	(0.898)	17688	1.00000	1.000
	20 Isophorone	82	10.017	10.038	(0.933)	29376	1.00000	1.000
	21 2-Nitrophenol	139	10.164	10.173	(0.946)	8306	1.00000	1.000
	22 2,4-Dimethylphenol	107	10.234	10.256	(0.953)	17478	1.00000	1.000
	23 Bis(2-Chloroethoxy)methane	93	10.393	10.408	(0.968)	20749	1.00000	1.000
	25 2,4-Dichlorophenol	162	10.534	10.549	(0.981)	13002	1.00000	1.000
	26 1,2,4-Trichlorobenzene	180	10.675	10.684	(0.994)	18864	1.00000	1.000
*	27 Naphthalene-d8	136	10.739	10.749	(1.000)	1025728	20.0000	
	28 Naphthalene	128	10.769	10.784	(1.003)	60556	1.00000	1.000
	29 4-Chloroaniline	127	10.898	10.908	(1.015)	20131	1.00000	1.000

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	30 Hexachlorobutadiene	225	11.080	11.084	(1.032)	11152	1.00000	1.000
	31 4-Chloro-3-methylphenol	107	11.691	11.701	(1.089)	10459	1.00000	1.000
	32 2-Methylnaphthalene	142	11.897	11.906	(1.108)	38275	1.00000	1.000
	34 2,4,6-Trichlorophenol	196	12.402	12.411	(0.910)	9385	1.00000	1.000
	35 2,4,5-Trichlorophenol	196	12.461	12.470	(0.915)	7560	1.00000	1.000
$	36 2-Fluorobiphenyl	172	12.531	12.541	(0.920)	44578	1.00000	1.000
	37 2-Chloronaphthalene	162	12.684	12.699	(0.931)	37915	1.00000	1.000
	38 2-Nitroaniline	65	12.901	12.923	(0.947)	4299	1.00000	1.000
	39 Dimethylphthalate	163	13.260	13.287	(0.973)	44202	1.00000	1.000
	40 Acenaphthylene	152	13.371	13.381	(0.981)	59340	1.00000	1.000
	41 2,6-Dinitrotoluene	165	13.365	13.387	(0.981)	7415	1.00000	1.000
*	42 Acenaphthene-d10	164	13.624	13.633	(1.000)	609037	20.0000	
	43 3-Nitroaniline	138	13.583	13.610	(0.997)	8127	1.00000	1.000(M)
	44 Acenaphthene	153	13.677	13.686	(1.004)	37912	1.00000	1.000
	46 Dibenzofuran	168	13.935	13.951	(1.023)	50118	1.00000	1.000
	48 2,4-Dinitrotoluene	165	14.000	14.021	(1.028)	8769	1.00000	1.000
	50 Diethylphthalate	149	14.417	14.438	(1.058)	47903	1.00000	1.000
	49 Fluorene	166	14.499	14.514	(1.064)	44002	1.00000	1.000
	51 4-Chlorophenyl-phenylether	204	14.505	14.514	(1.065)	21156	1.00000	1.000
	52 4-Nitroaniline	138	14.581	14.626	(1.070)	8559	1.00000	1.000(M)
	54 N-Nitrosodiphenylamine	169	14.711	14.732	(0.918)	30879	1.00000	1.000
$	55 2,4,6-Tribromophenol	330	14.922	14.937	(1.095)	3444	1.00000	1.000
	56 4-Bromophenyl-phenylether	248	15.298	15.308	(0.955)	10876	1.00000	1.000
	57 Hexachlorobenzene	284	15.533	15.548	(0.970)	12460	1.00000	1.000
*	59 Phenanthrene-d10	188	16.021	16.036	(1.000)	1031072	20.0000	
	60 Phenanthrene	178	16.056	16.077	(1.002)	65449	1.00000	1.000
	61 Anthracene	178	16.132	16.153	(1.007)	65409	1.00000	1.000
	62 Carbazole	167	16.408	16.424	(1.024)	59018	1.00000	1.000
	63 Di-n-butylphthalate	149	17.084	17.093	(1.066)	71682	1.00000	1.000
	64 Fluoranthene	202	18.012	18.027	(1.124)	63563	1.00000	1.000
	65 Pyrene	202	18.376	18.397	(0.902)	68781	1.00000	1.000
$	66 Terphenyl-d14	244	18.664	18.674	(0.916)	41564	1.00000	1.000
	67 Butylbenzylphthalate	149	19.528	19.543	(0.958)	28078	1.00000	1.000
	68 Benzo(a)anthracene	228	20.344	20.365	(0.999)	62157	1.00000	1.000
*	69 Chrysene-d12	240	20.374	20.389	(1.000)	888098	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.338	20.348	(0.998)	16378	1.00000	1.000
	71 Chrysene	228	20.415	20.436	(1.002)	61441	1.00000	1.000
	72 bis(2-Ethylhexyl)phthalate	149	20.515	20.518	(0.956)	37359	1.00000	1.000
*	134 Di-n-octylphthalate-d4	153	21.449	21.458	(1.000)	1405493	20.0000	
	73 Di-n-octylphthalate	149	21.454	21.470	(1.000)	88965	1.00000	1.000
	74 Benzo(b)fluoranthene	252	22.012	22.040	(0.975)	62957	1.00000	1.000
	75 Benzo(k)fluoranthene	252	22.048	22.075	(0.977)	68867	1.00000	1.000
	187 Total Benzofluoranthenes	252	22.012	22.075	(0.975)	123956	2.00000	2.000(M)
	76 Benzo(a)pyrene	252	22.482	22.510	(0.996)	55355	1.00000	1.000
*	77 Perylene-d12	264	22.571	22.580	(1.000)	896867	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	24.403	24.454	(1.081)	49743	1.00000	1.000
	79 Dibenzo(a,h)anthracene	278	24.421	24.477	(1.082)	36717	1.00000	1.000(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
80	Benzo(g,h,i)perylene	276	24.926	24.989	(1.104)	42342	1.00000	1.000(M)
90	N-Nitrosodimethylamine	74	4.260	4.281	(0.490)	9418	1.00000	1.000
103	Pyridine	79	4.272	4.240	(0.492)	13123	1.00000	1.000(M)
91	Aniline	93	8.237	8.252	(0.948)	24205	1.00000	1.000
105	1-methylnaphthalene	142	12.073	12.082	(1.124)	37878	1.00000	1.000
93	Benzidine	184	18.247	18.251	(0.896)	18817	1.00000	1.000(M)
111	Azobenzene (1,2-DP-Hydrazine)	77	14.758	14.779	(1.083)	34717	1.00000	1.000
143	1,4-Dioxane	88	3.485	3.494	(0.401)	6166	1.00000	
$ 137	d8-1,4-Dioxane	96	3.420	3.424	(0.394)	6252	1.00000	
151	1,2,4,5-Tetrachlorobenzene	216	12.237	12.247	(0.898)	18497	1.00000	1.000
120	2,3,4,6-Tetrachlorophenol	232	14.211	14.221	(1.043)	7771	1.00000	1.000
144	alpha-Terpineol	59	10.775	10.790	(1.003)	10428	1.00000	1.000
98	Retene	219	18.923	18.932	(0.929)	20377	1.00000	1.000
133	Butylatedhydroxytoluene	205	13.765	13.774	(1.010)	36457	1.00000	1.000
115	Tributyl Phosphate	99	14.769	14.802	(0.922)	42406	1.00000	1.000
116	Dibutyl Phenyl Phosphate	175	16.526	16.535	(1.032)	32552	1.00000	1.000
117	Butyl Diphenyl Phosphate	94	18.235	18.245	(0.895)	9172	1.00000	1.000
118	Triphenyl Phosphate	326	19.857	19.866	(0.975)	9524	1.00000	1.000
123	Acetophenone	105	9.371	9.392	(0.873)	24162	1.00000	1.000
179	n-Decane	57	8.495	8.505	(0.978)	13401	1.00000	1.000
180	n-Octadecane	57	15.874	15.883	(0.991)	15597	1.00000	1.000
168	Pentachlorobenzene	250	13.976	13.992	(1.026)	14879	1.00000	1.000
113	Diphenyl Oxide	170	12.860	12.870	(0.944)	38962	1.00000	1.000
112	Biphenyl	154	12.672	12.682	(0.930)	44311	1.00000	1.000
110	Tetrachloroguaiacol	247	15.950	15.971	(0.996)	11956	2.00000	2.000
109	3,4,5-Trichloroguaiacol	213	14.305	14.315	(0.893)	5696	1.00000	1.000
181	3,4,6-Trichloroguaiacol	211	14.429	14.444	(0.901)	6639	1.00000	1.000
108	4,5,6-Trichloroguaiacol	213	15.339	15.349	(0.957)	5830	1.00000	1.000
184	3,4-Dichloroguaiacol	192	12.754	12.764	(0.936)	5700	1.00000	1.000
107	4,5-Dichloroguaiacol	192	13.530	13.545	(0.993)	7611	1.00000	1.000
182	4,6-Dichloroguaiacol	192	13.559	13.580	(0.995)	8112	1.00000	1.000
185	4-Chloroguaiacol	115	11.650	11.660	(1.341)	3842	0.50000	0.5000
106	Guaiacol	124	9.629	9.645	(1.108)	16777	1.00000	1.000

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: 07191002.d
Lab Smp Id: IC010719
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Calibration Date: 19-JUL-2010
Calibration Time: 16:18
Client Smp ID: IC010719
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	290756	-18.44
27 Naphthalene-d8	1293412	646706	2586824	1025728	-20.70
42 Acenaphthene-d10	785897	392948	1571794	609037	-22.50
59 Phenanthrene-d10	1313990	656995	2627980	1031072	-21.53
69 Chrysene-d12	1155293	577646	2310586	888098	-23.13
134 Di-n-octylphthala	1825297	912648	3650594	1405493	-23.00
77 Perylene-d12	1146289	573144	2292578	896867	-21.76

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.70	8.20	9.20	8.69	-0.10
27 Naphthalene-d8	10.74	10.24	11.24	10.74	-0.03
42 Acenaphthene-d10	13.63	13.13	14.13	13.62	-0.02
59 Phenanthrene-d10	16.03	15.53	16.53	16.02	-0.05
69 Chrysene-d12	20.38	19.88	20.88	20.37	-0.04
134 Di-n-octylphthala	21.45	20.95	21.95	21.45	-0.01
77 Perylene-d12	22.58	22.08	23.08	22.57	-0.04

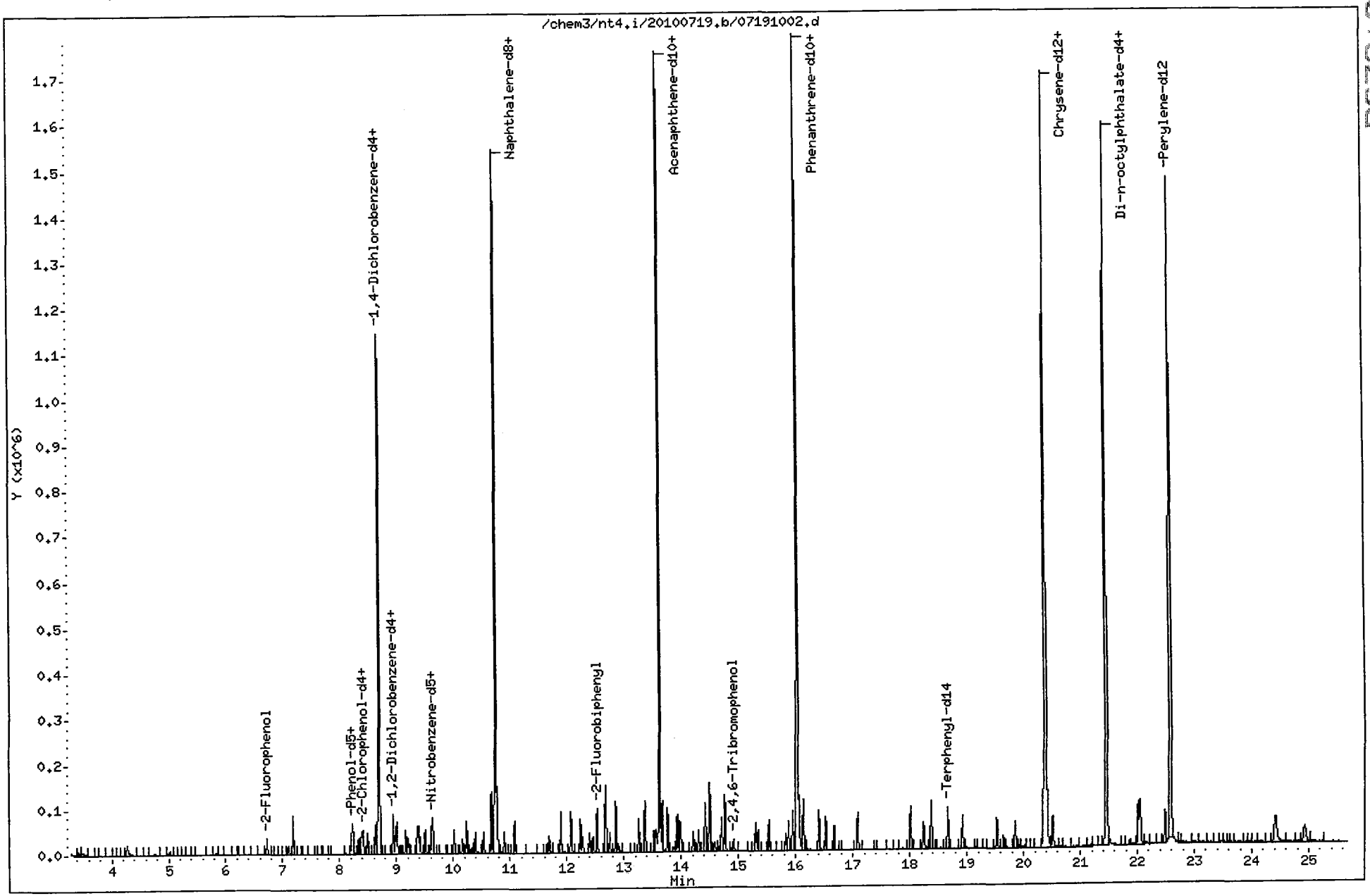
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20100719.b/07191002.d
Date : 19-JUL-2010 16:56
Client ID: IC010719
Sample Info: IC010719

Instrument: nt4.i

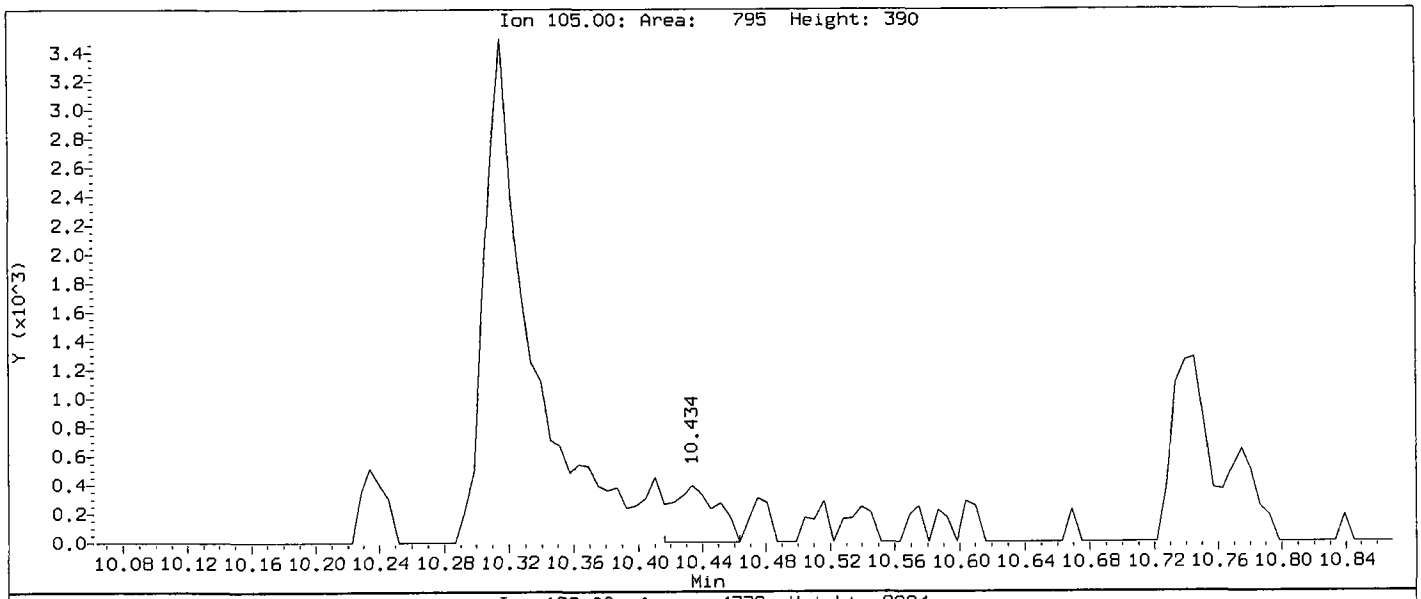
Operator: JZ
Column diameter: 0.32

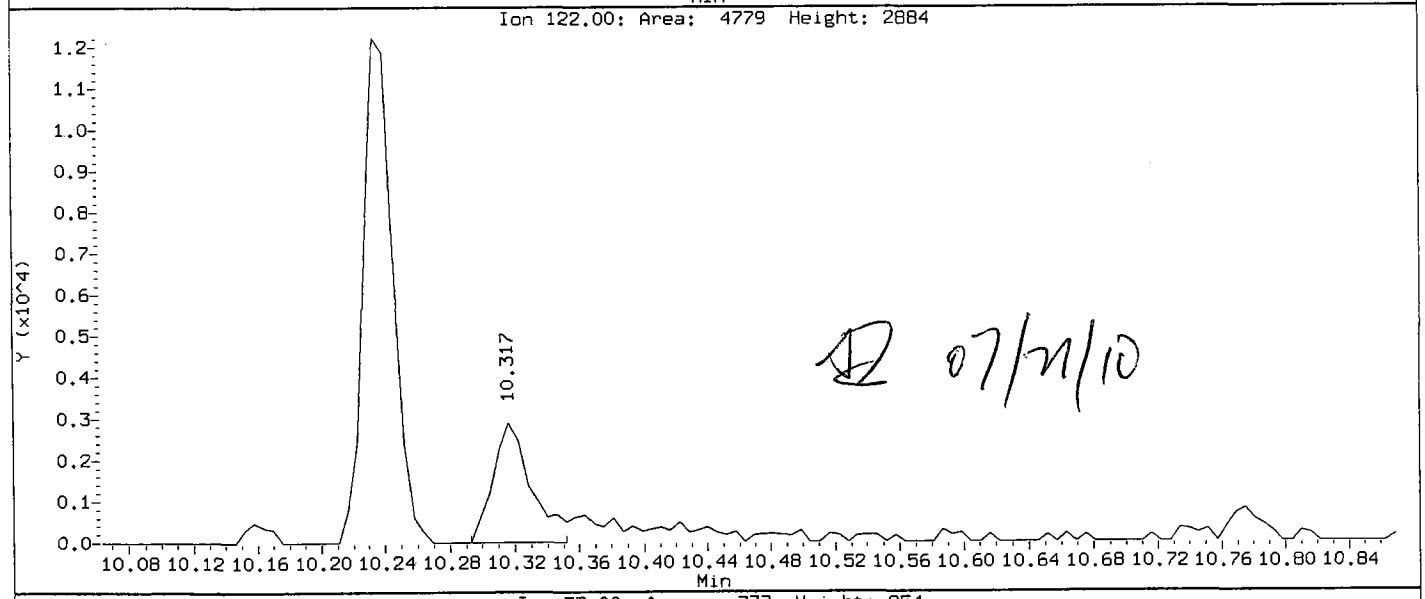
Column phase: ZB-5msi



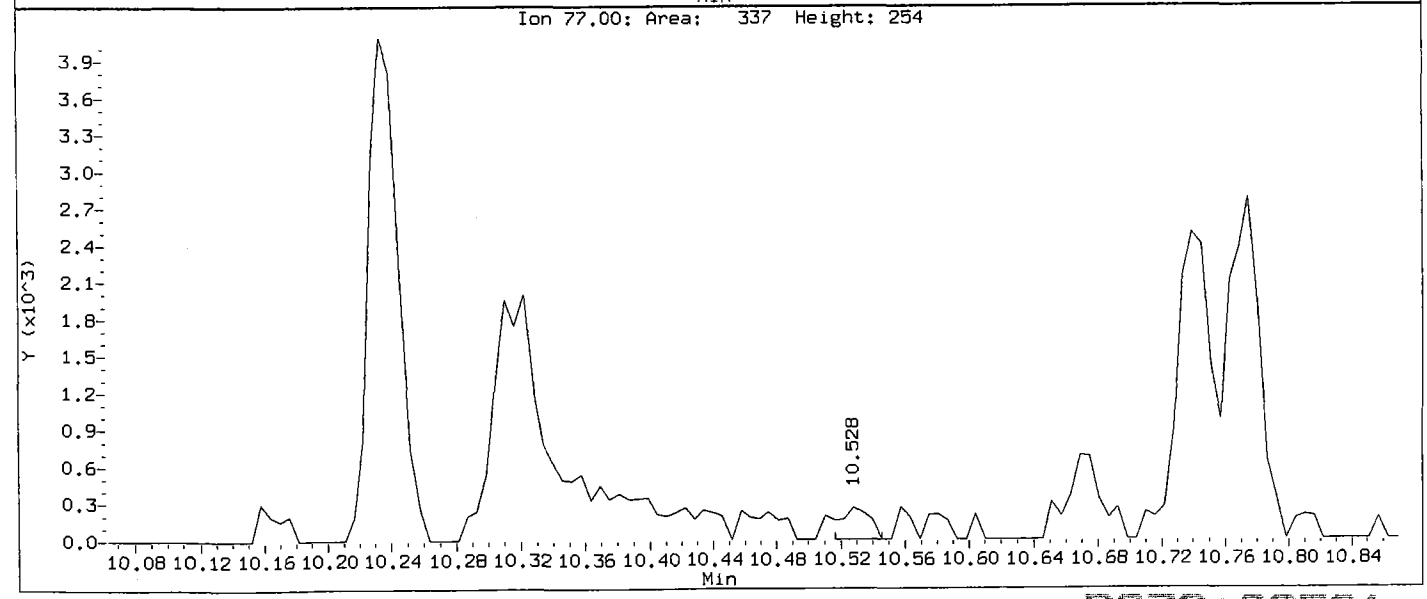
Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

Compound: Benzoic acid
CAS Number: 65-85-0



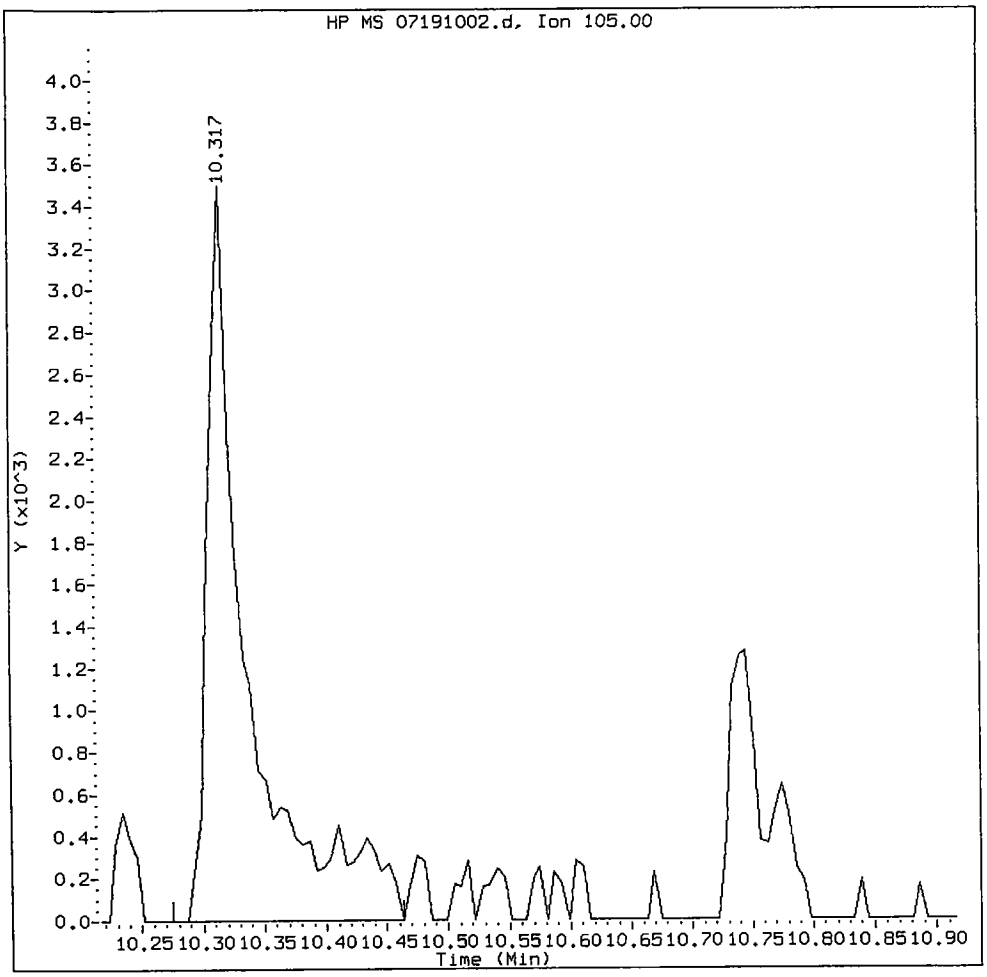


07/21/10



IC010719, /chem3/nt4.i/20100719.b/07191002.d

Benzoic acid Amount: 0.00 Area: 8004



MANUAL INTEGRATION for Benzoic acid

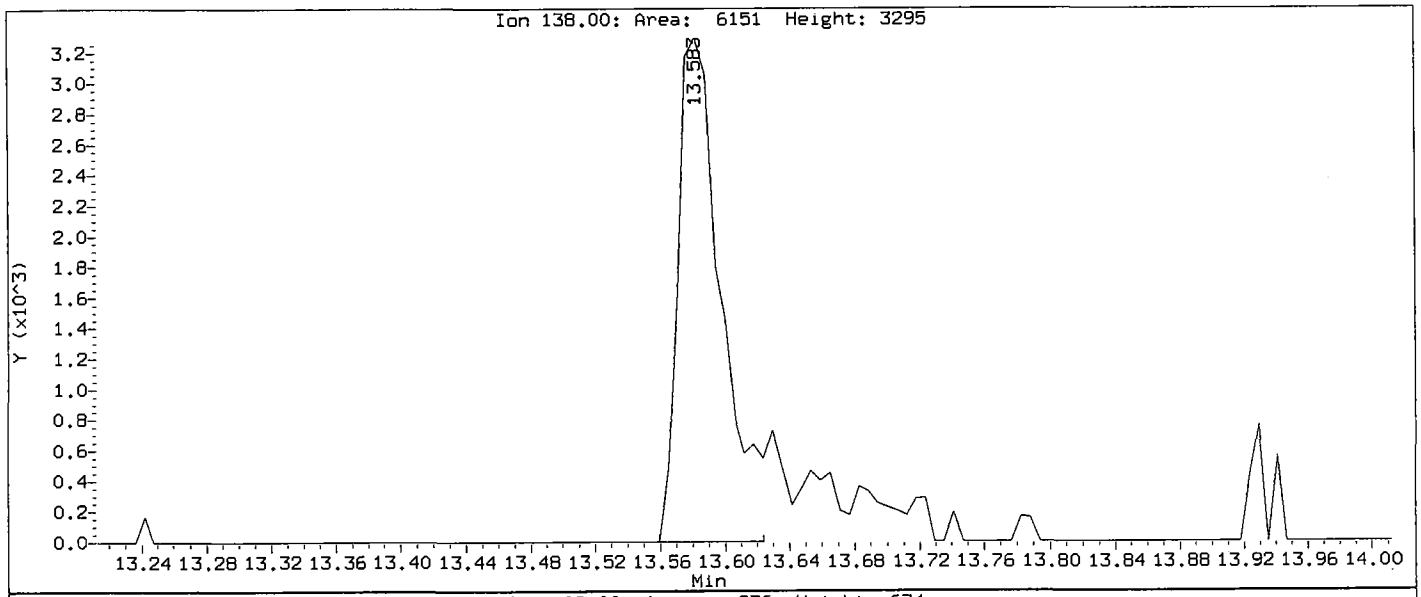
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

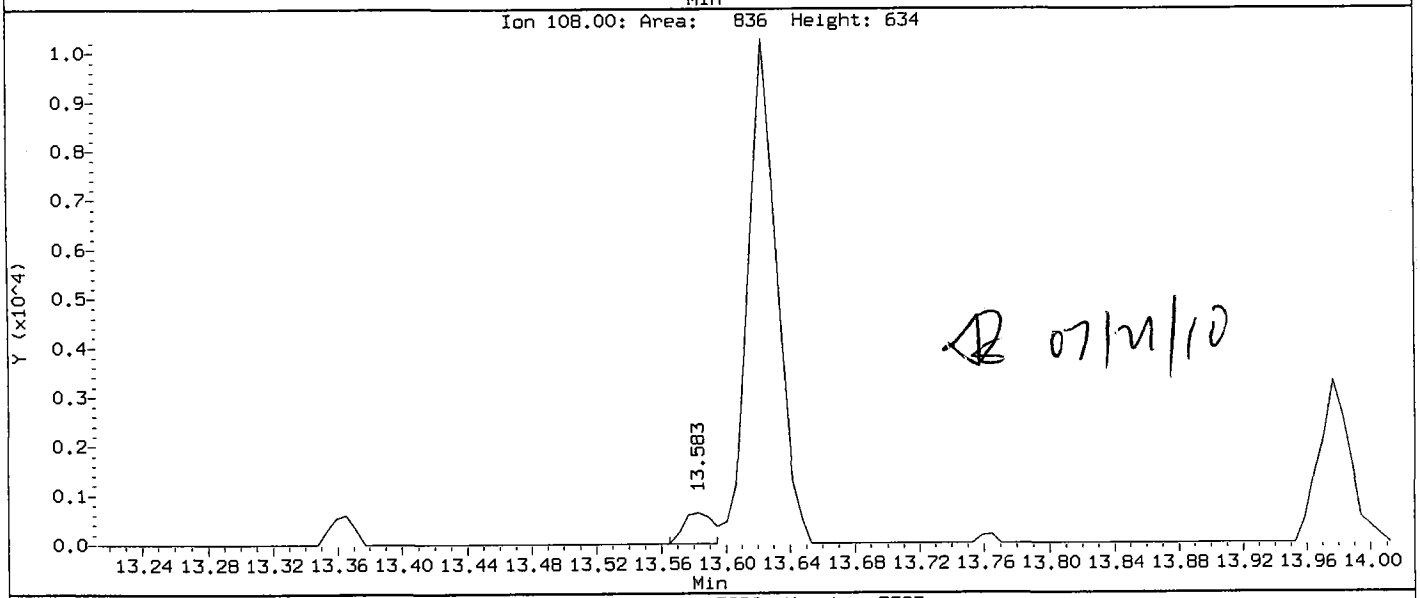
5. Other _____

Analyst: _____ Date: 07/21/10

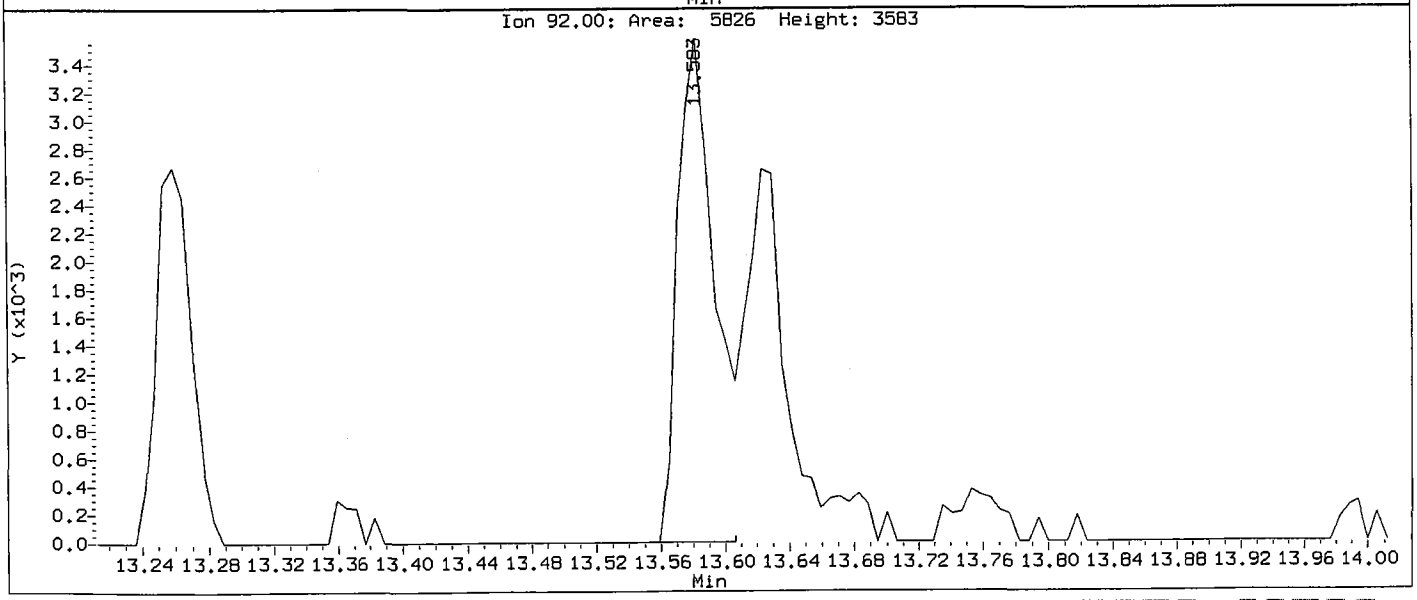
Data File: /chem3/nt4.i/20100719B.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

Compound: 3-Nitroaniline
CAS Number: 99-09-2



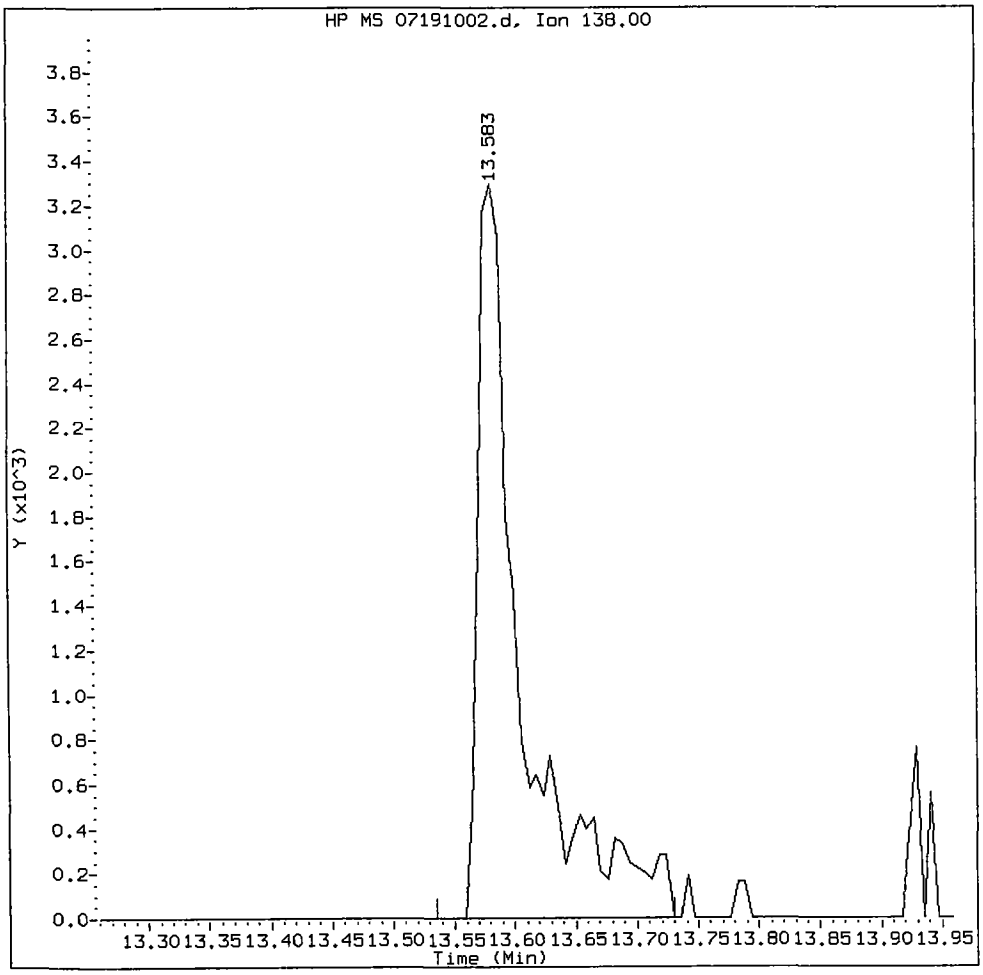


07/21/10



IC010719, /chem3/nt4.i/20100719.b/07191002.d

3-Nitroaniline Amount: 1.00 Area: 8127



MANUAL INTEGRATION for 3-Nitroaniline

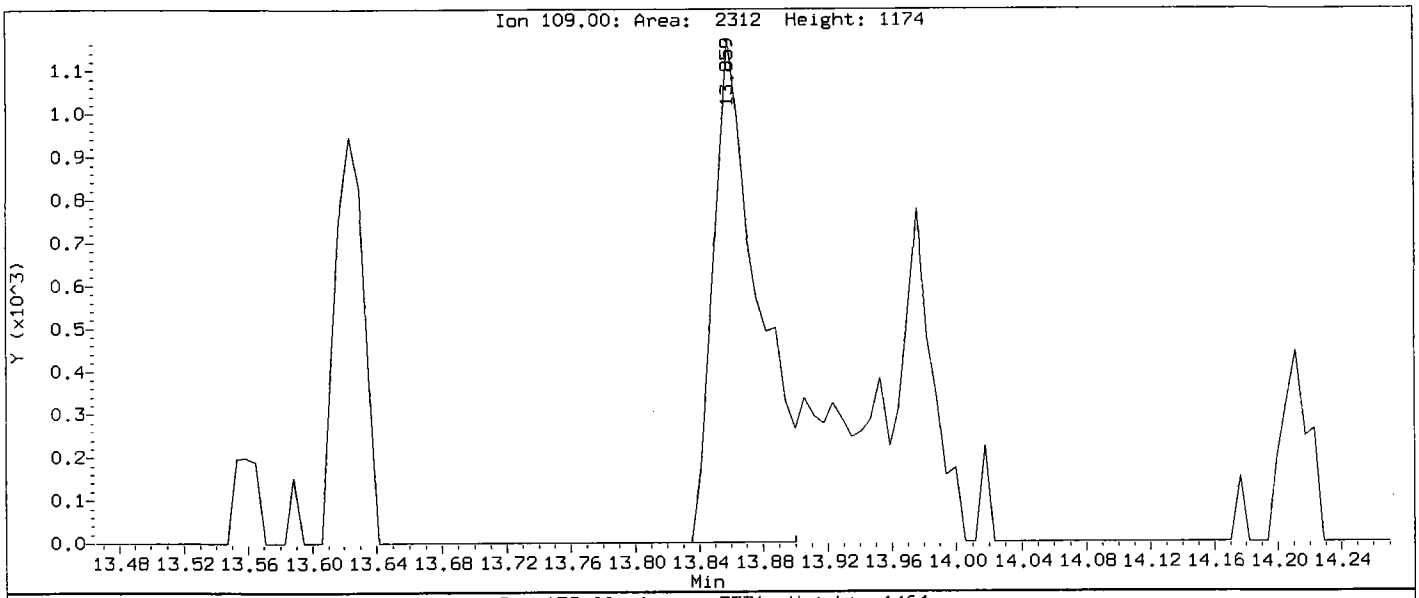
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

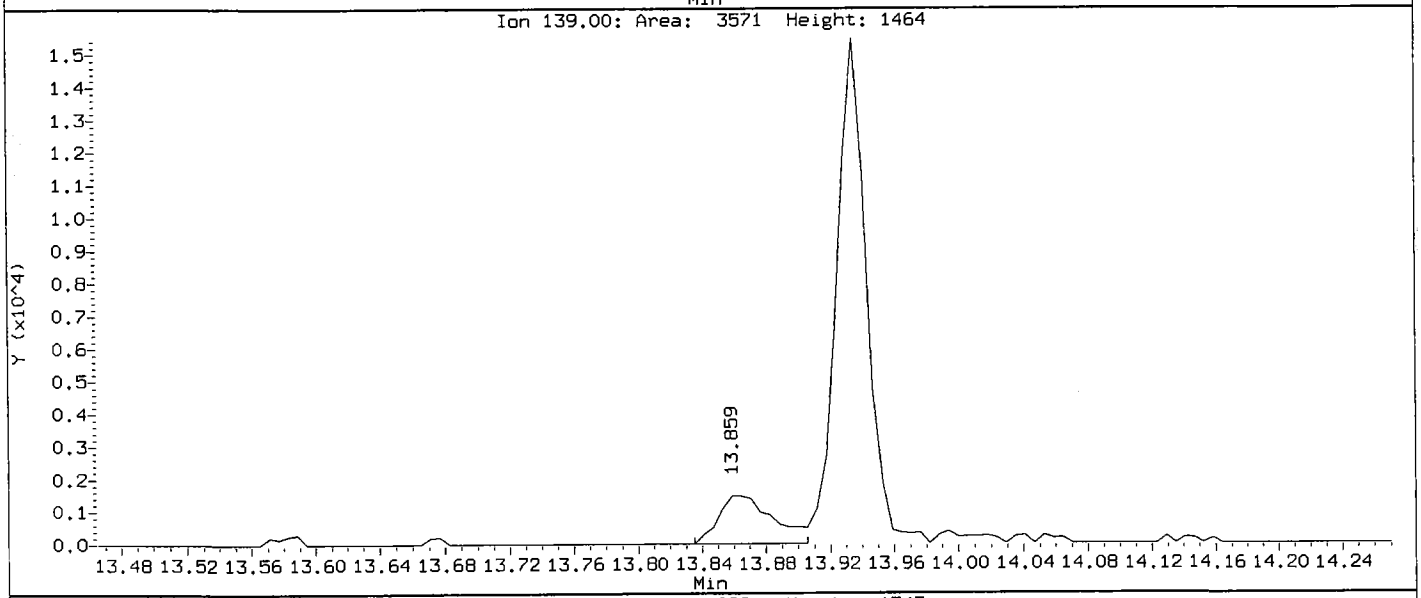
5. Other _____

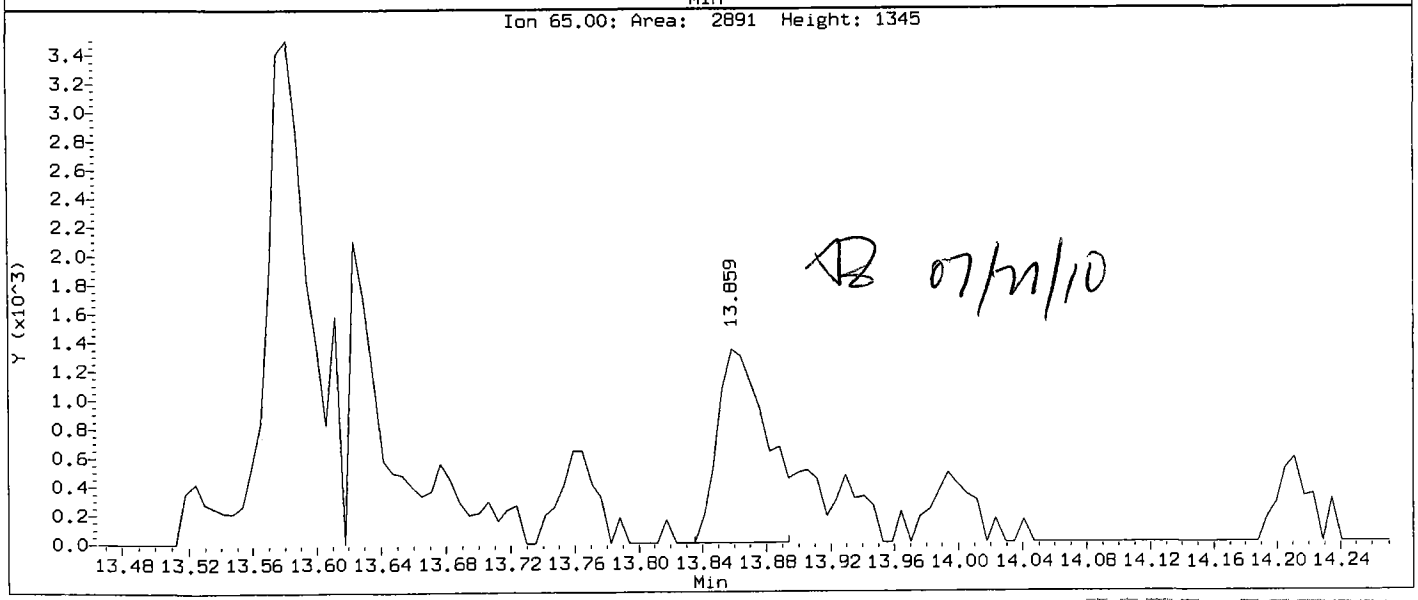
Analyst: _____ Date: 07/21/10

Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

Compound: 4-Nitrophenol
CAS Number: 100-02-7



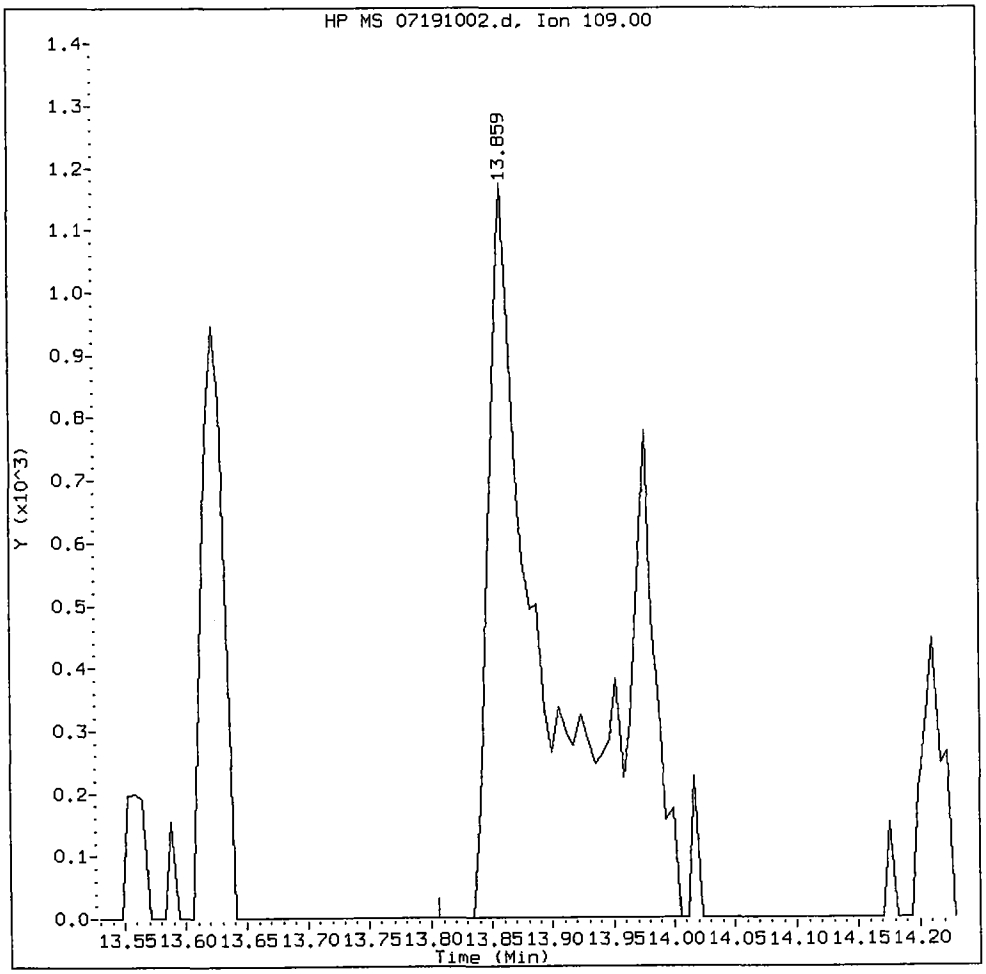




RB 07/21/10

IC010719, /chem3/nt4.i/20100719.b/07191002.d

4-Nitrophenol Amount: 0.00 Area: 4317



MANUAL INTEGRATION for 4-Nitrophenol

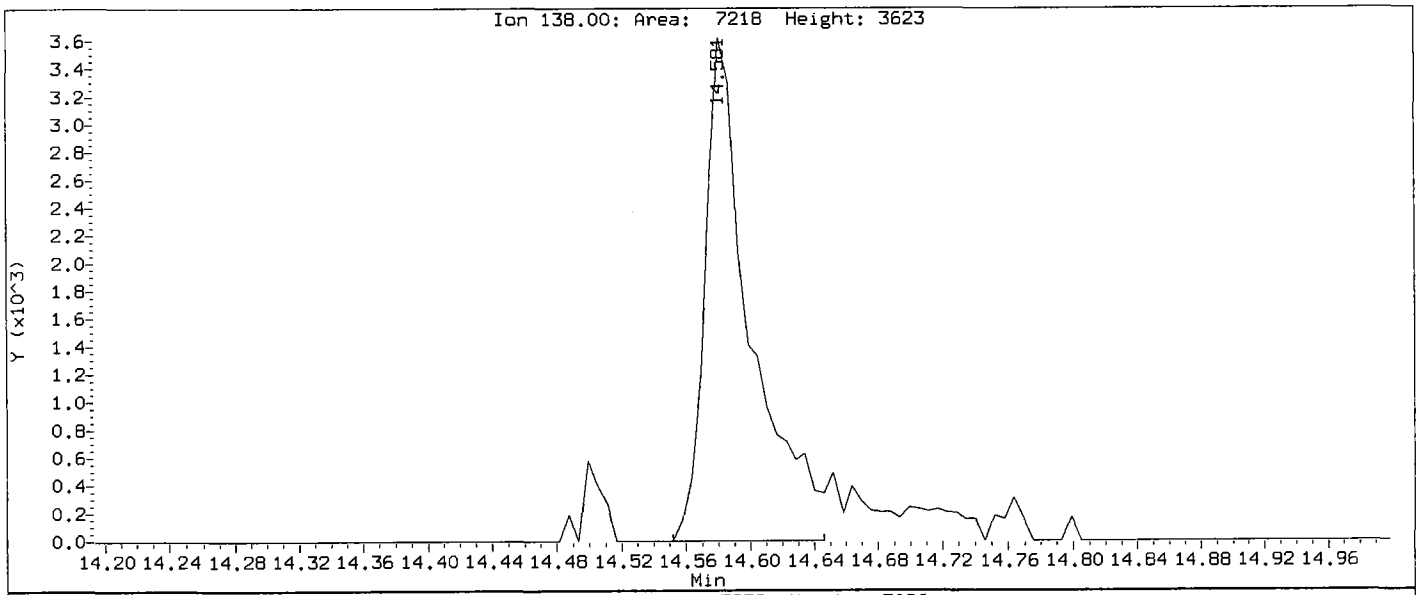
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

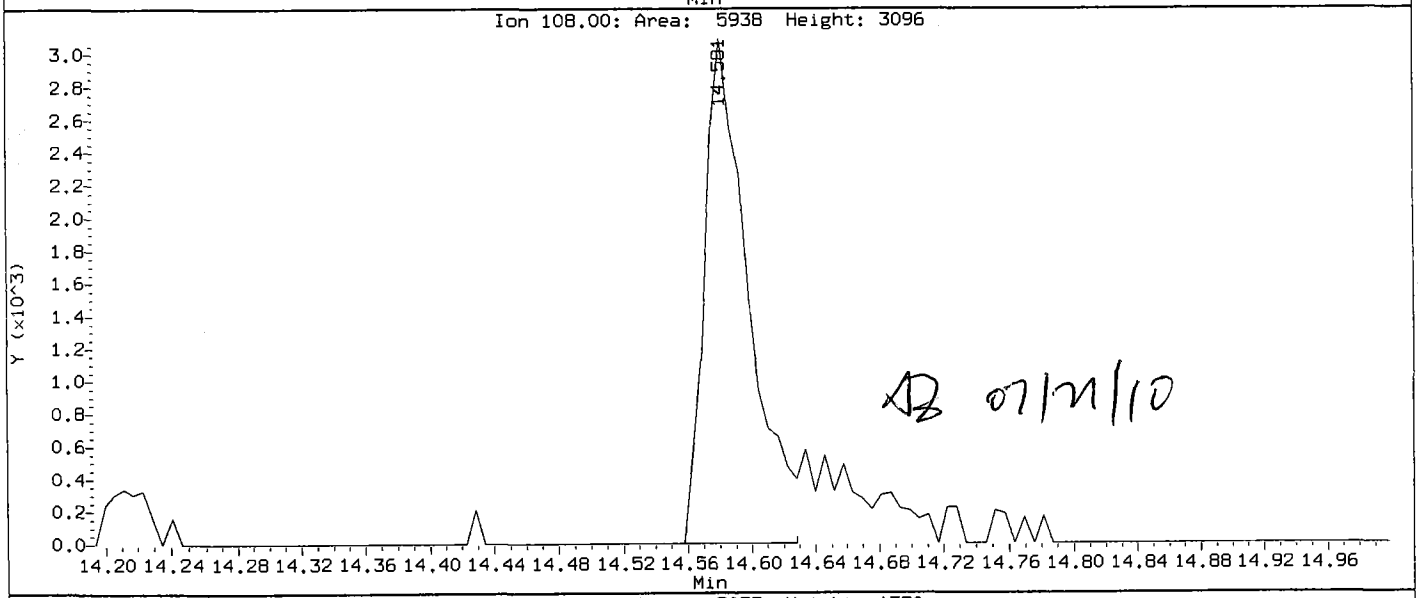
5. Other _____

Analyst: _____ Date: 07/21/10

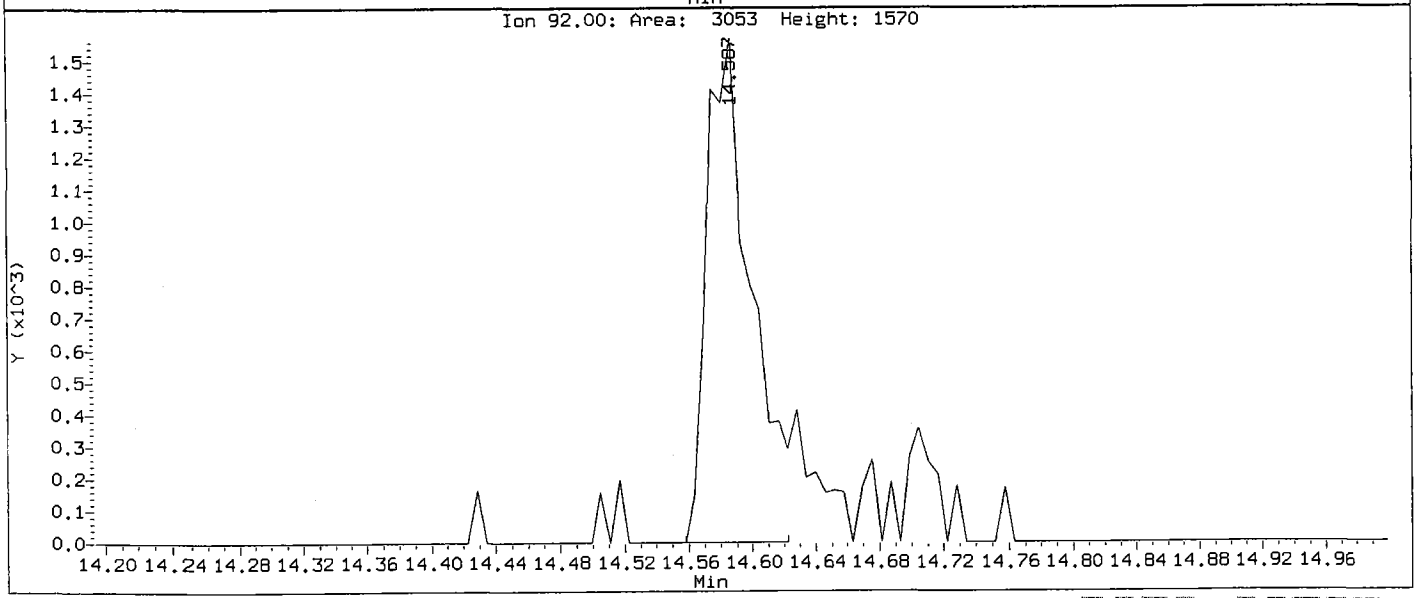
Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

Compound: 4-Nitroaniline
CAS Number: 100-01-6



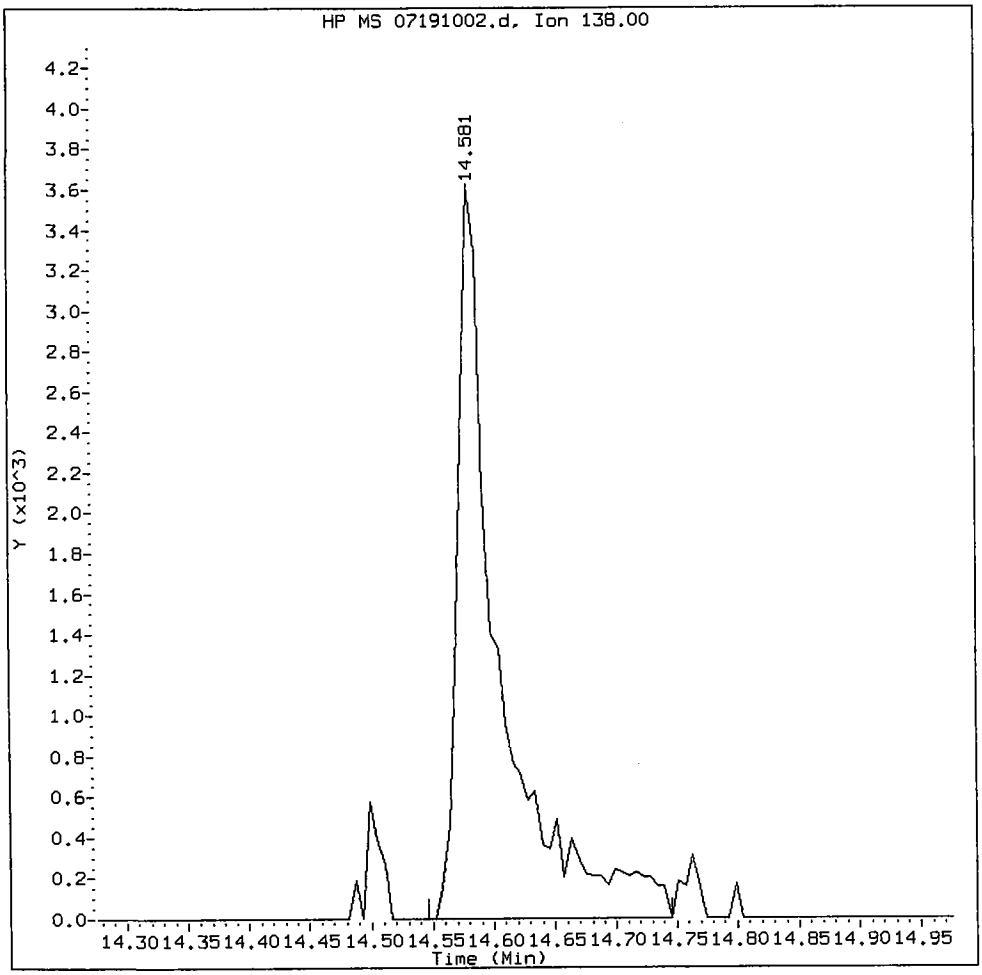


AB 07/21/10



IC010719, /chem3/nt4.i/20100719.b/07191002.d

4-Nitroaniline Amount: 1.00 Area: 8559



MANUAL INTEGRATION for 4-Nitroaniline

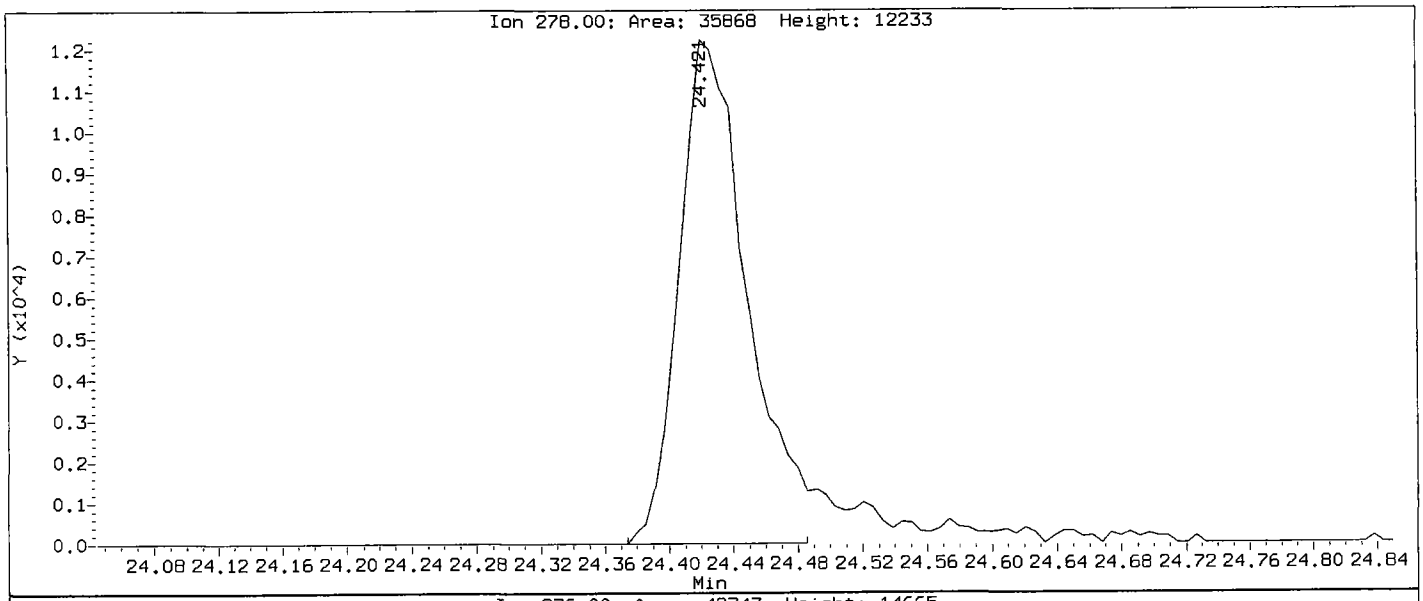
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

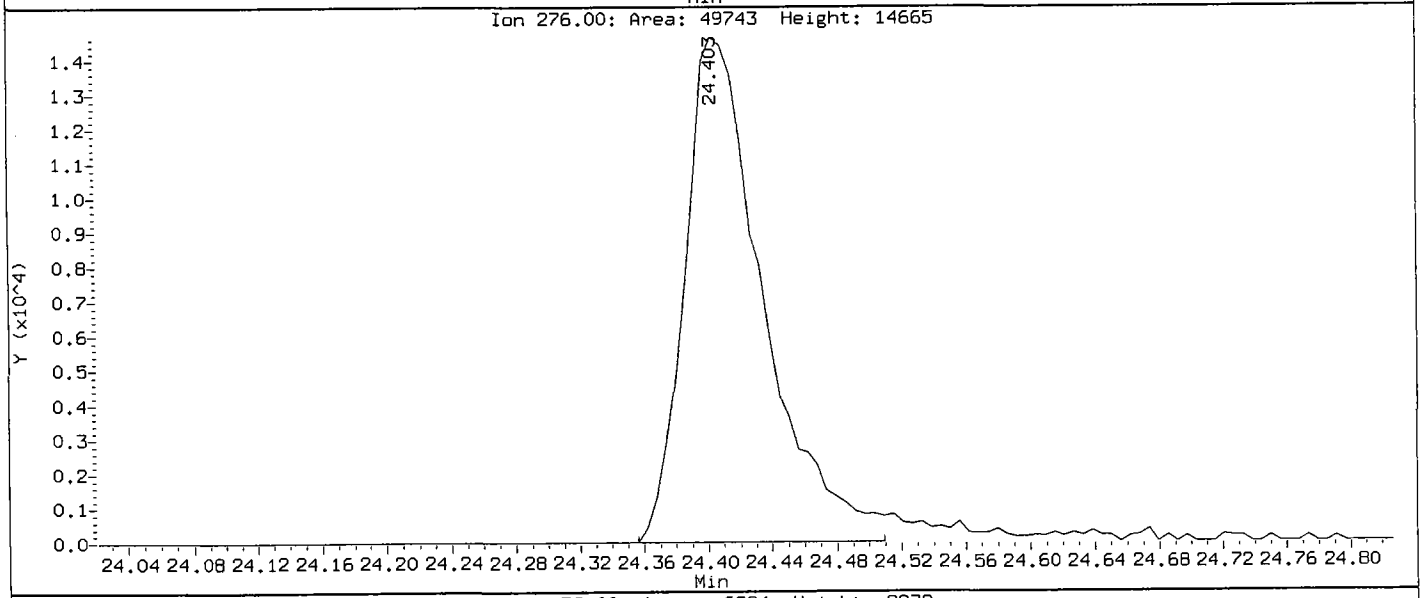
5. Other _____

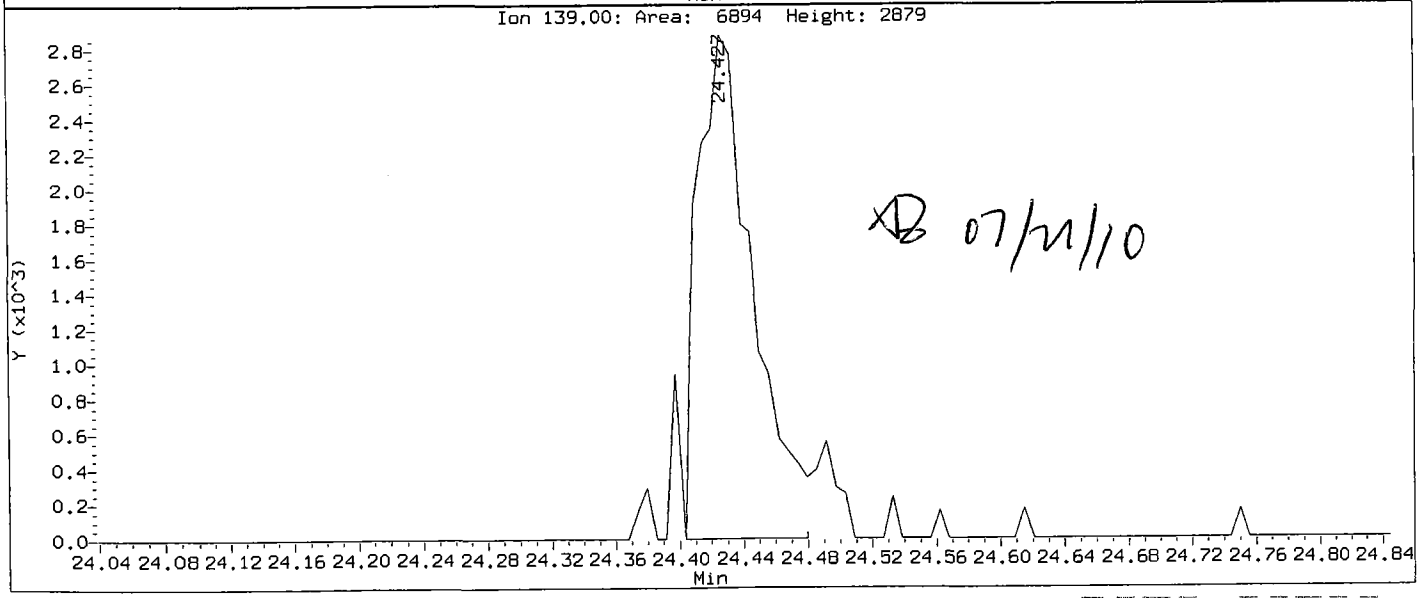
Analyst: _____ Date: 07/21/10

Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

Compound: Dibenzo(a,h)anthracene
CAS Number: 53-70-3



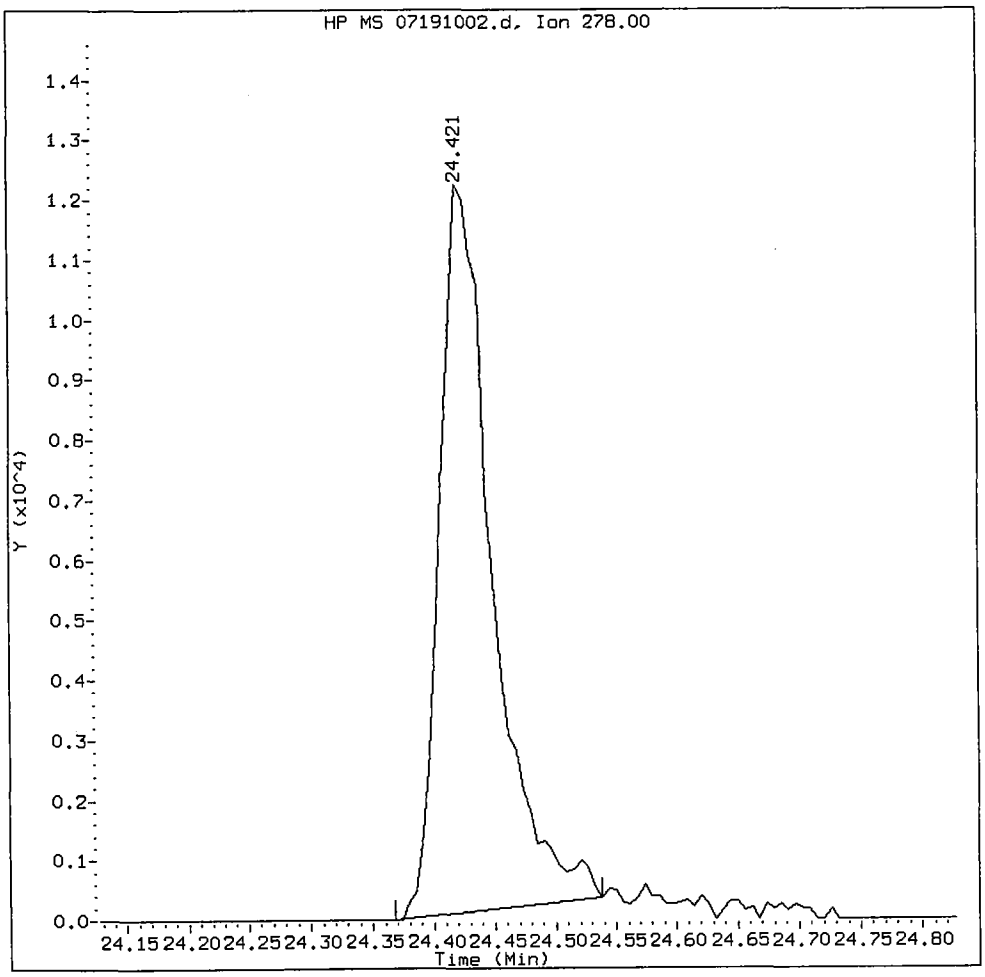




XD 07/11/10

IC010719, /chem3/nt4.i/20100719.b/07191002.d

Dibenzo(a,h)anthracene Amount: 1.00 Area: 36717



MANUAL INTEGRATION for Dibenzo(a,h)anthracene

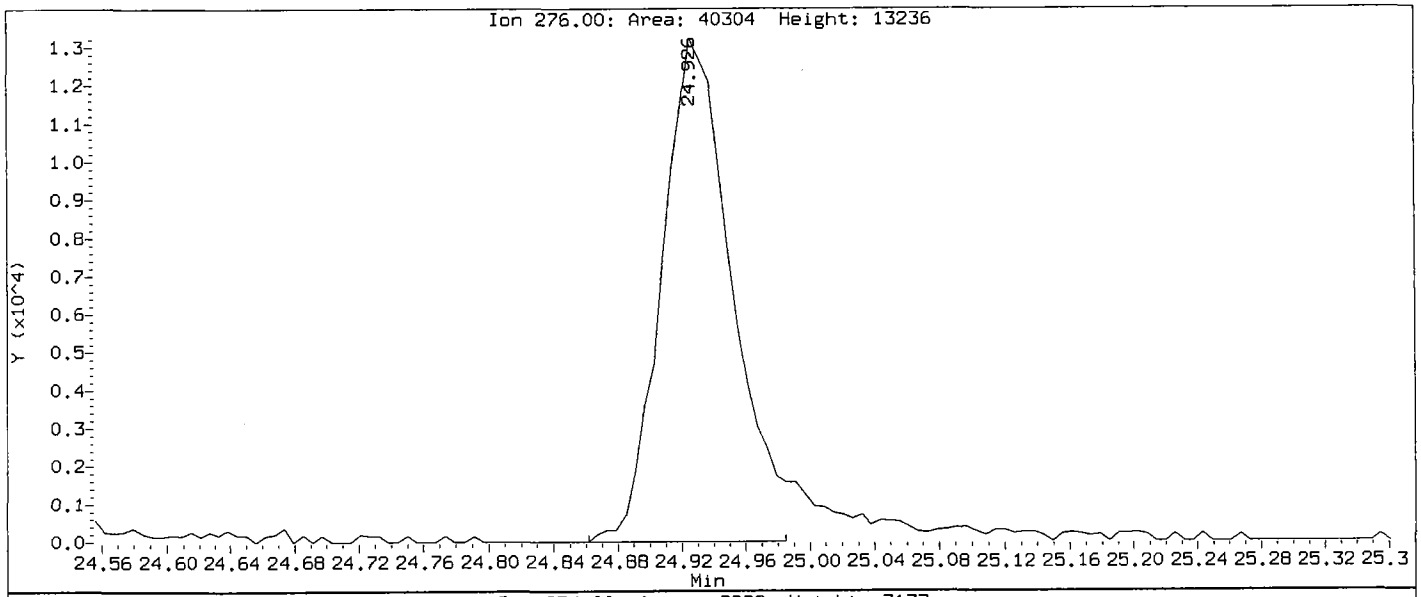
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

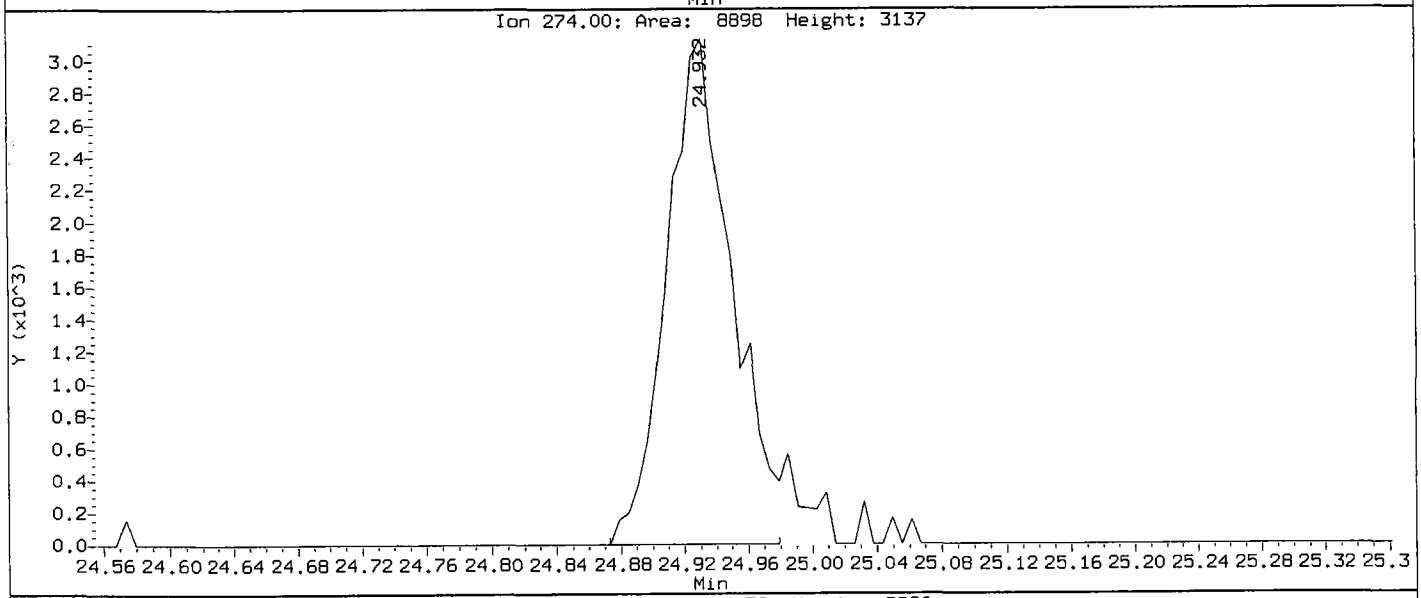
5. Other _____

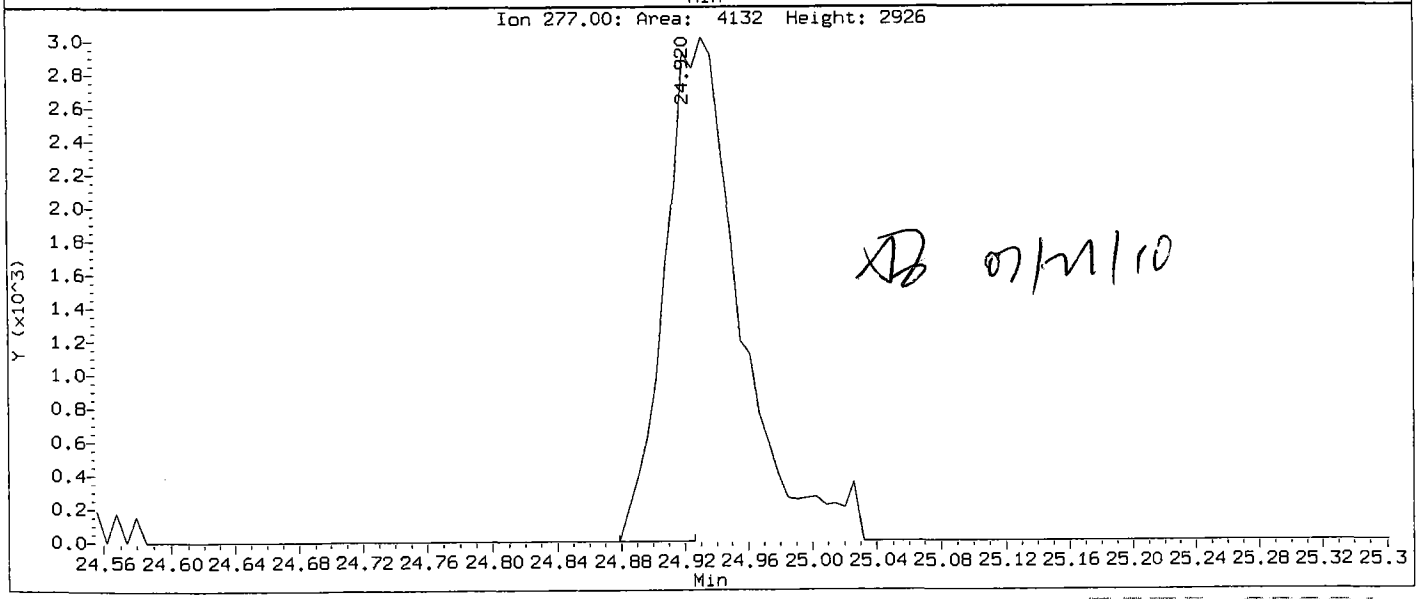
Analyst: _____ Date: 07/24/10

Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

Compound: Benzo(g,h,i)perylene
CAS Number: 191-24-2





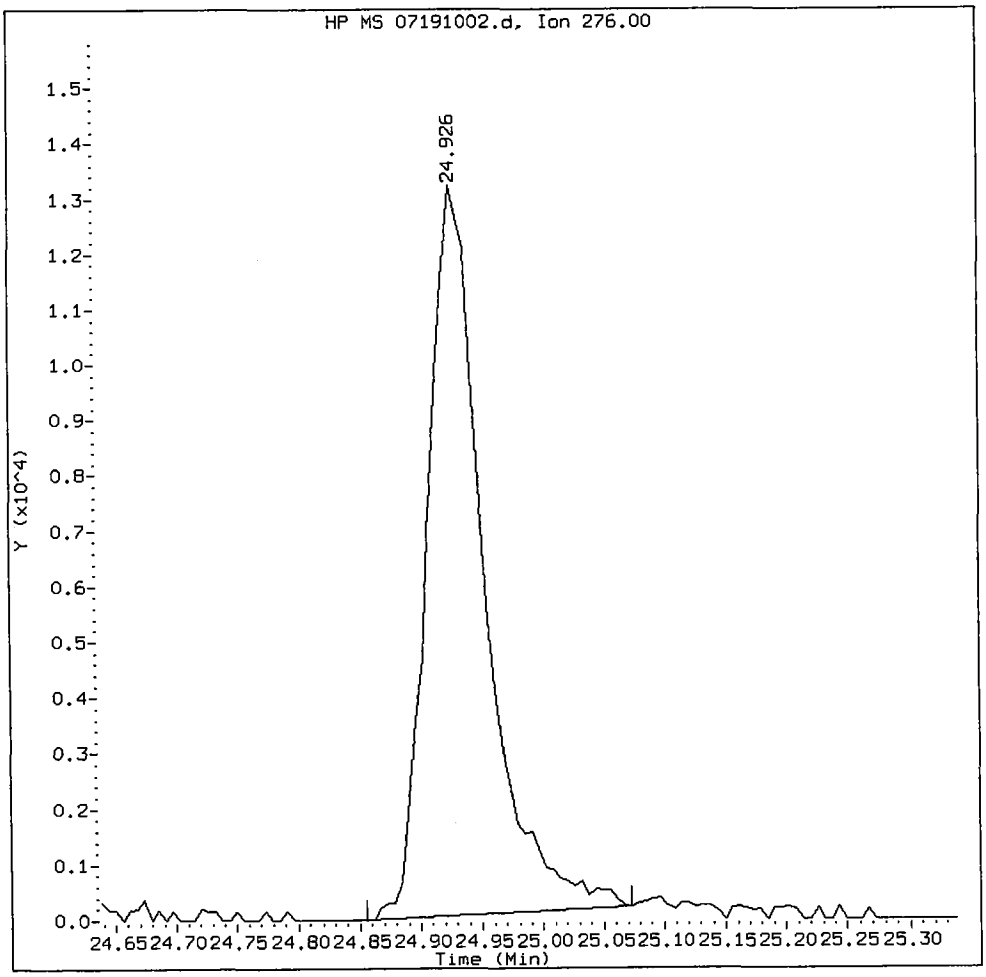


DB 07/21/10

RG79 : 00601

IC010719, /chem3/nt4.i/20100719.b/07191002.d

Benzo(g,h,i)perylene Amount: 1.00 Area: 42342



MANUAL INTEGRATION for Benzo(g,h,i)perylene

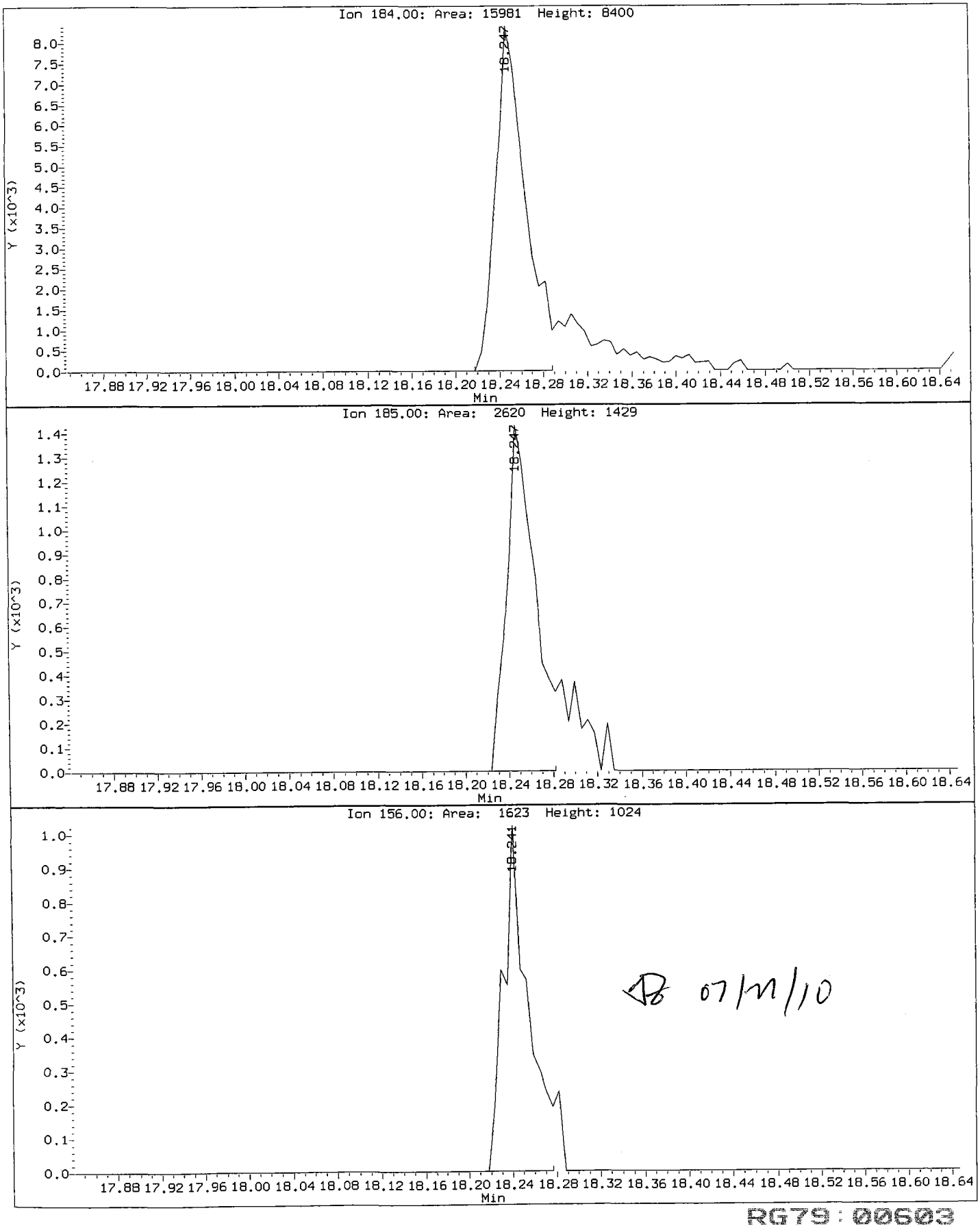
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 07/21/10

Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

Compound: Benzidine
CAS Number:

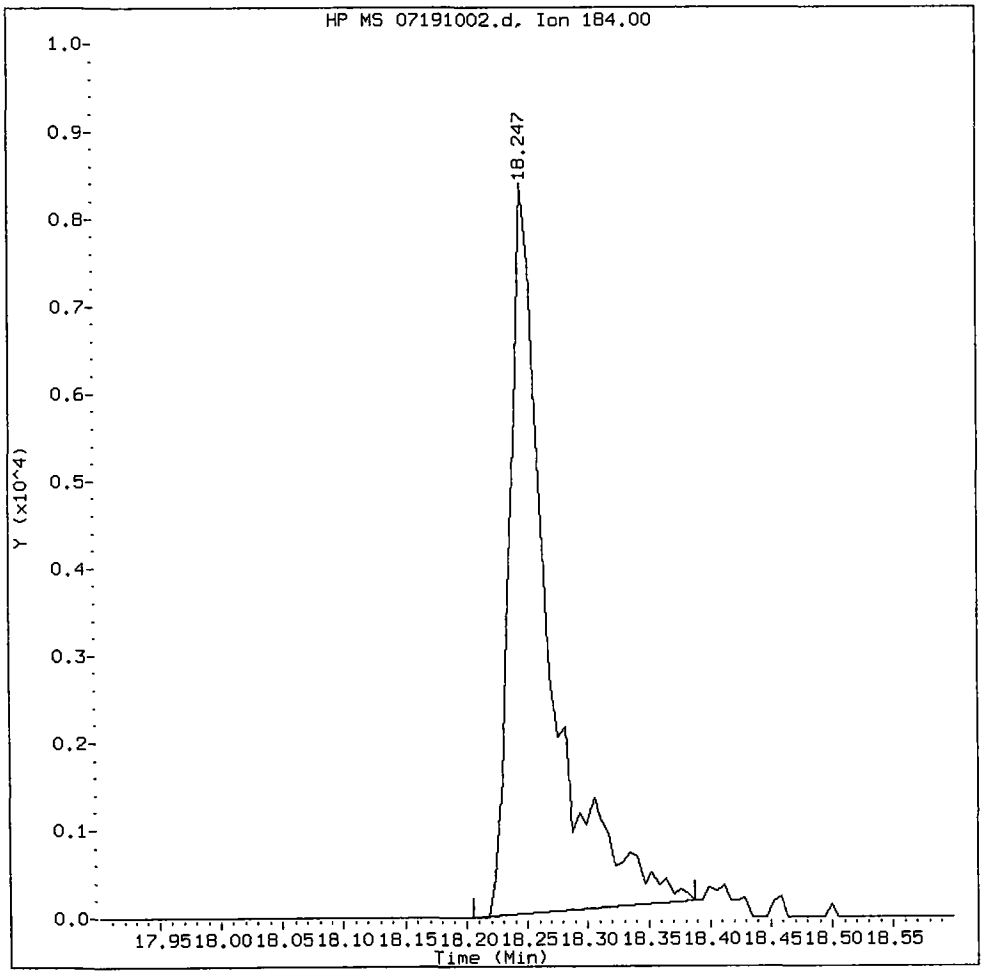


07/21/10

RG79 : 00603

IC010719, /chem3/nt4.i/20100719.b/07191002.d

Benzidine Amount: 1.00 Area: 18817



MANUAL INTEGRATION for Benzidine

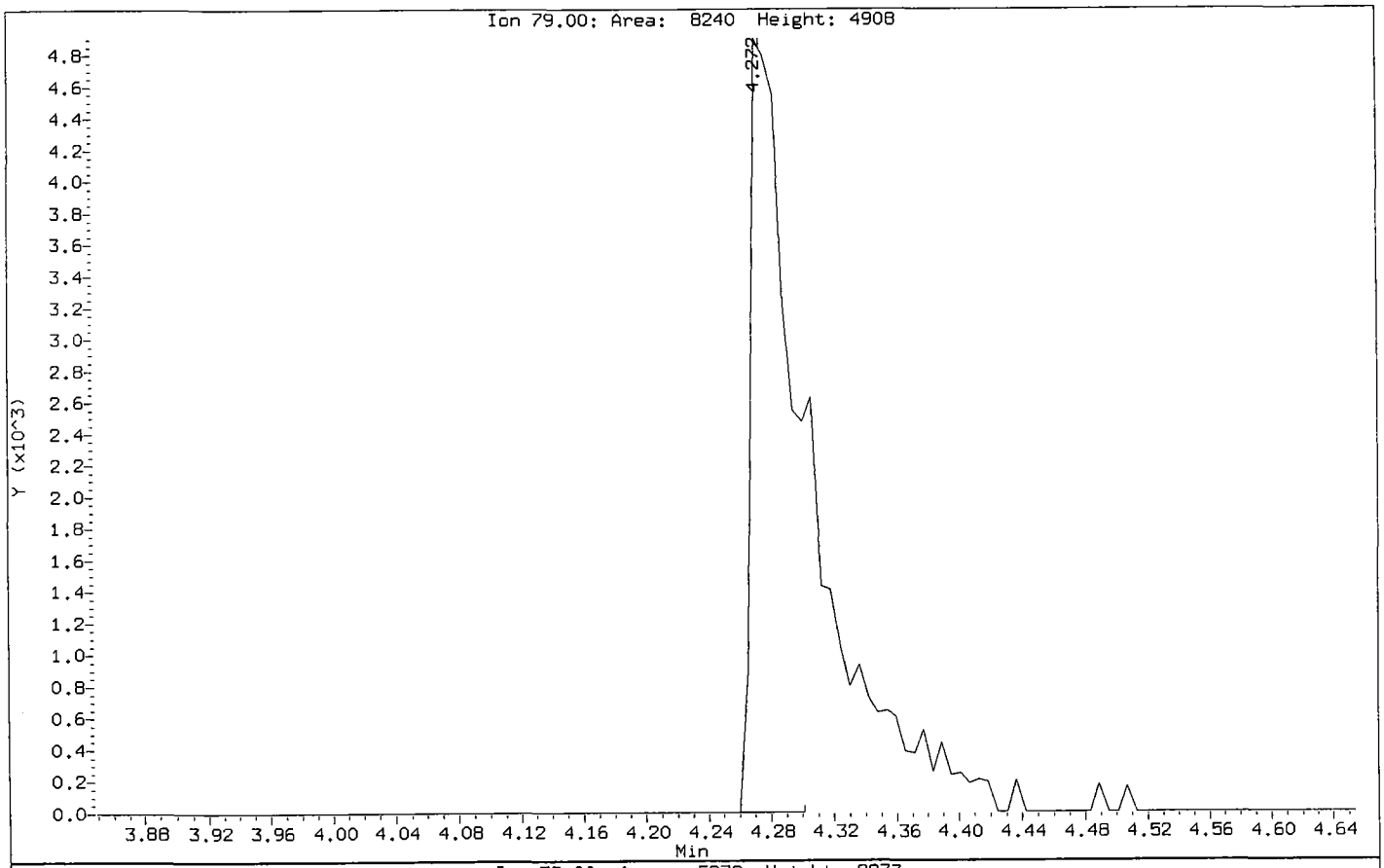
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

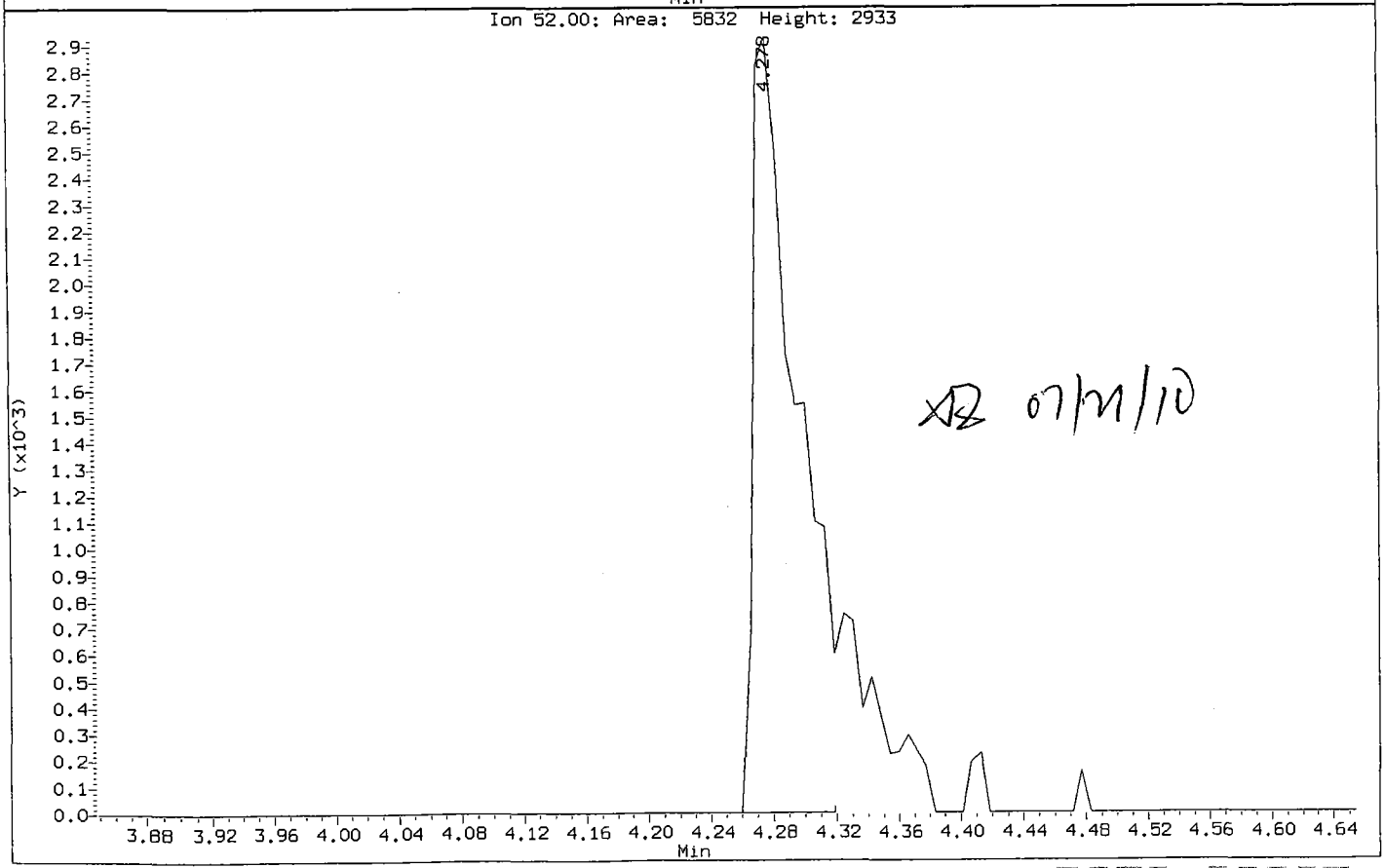
5. Other _____

Analyst: AD Date: 07/21/10

Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

Compound: Pyridine
CAS Number:

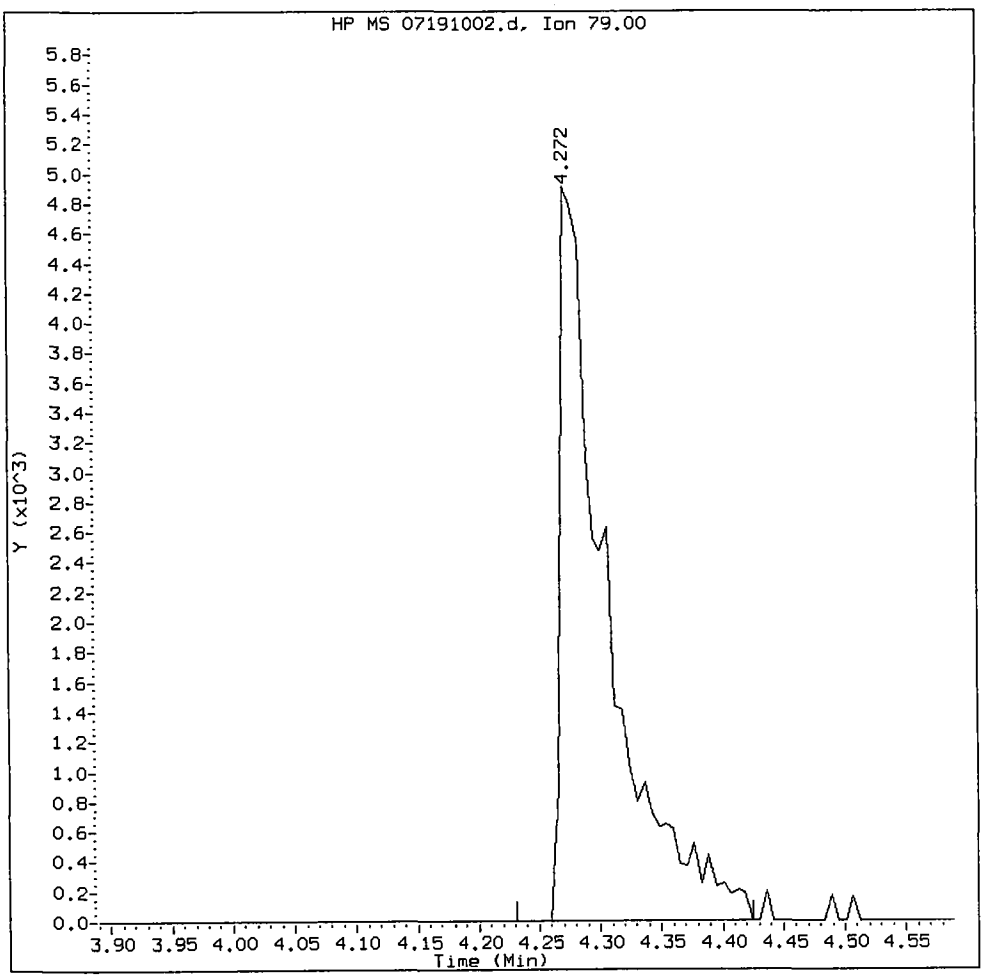




AB 07/21/10

IC010719, /chem3/nt4.i/20100719.b/07191002.d

Pyridine Amount: 1.00 Area: 13123



MANUAL INTEGRATION for Pyridine

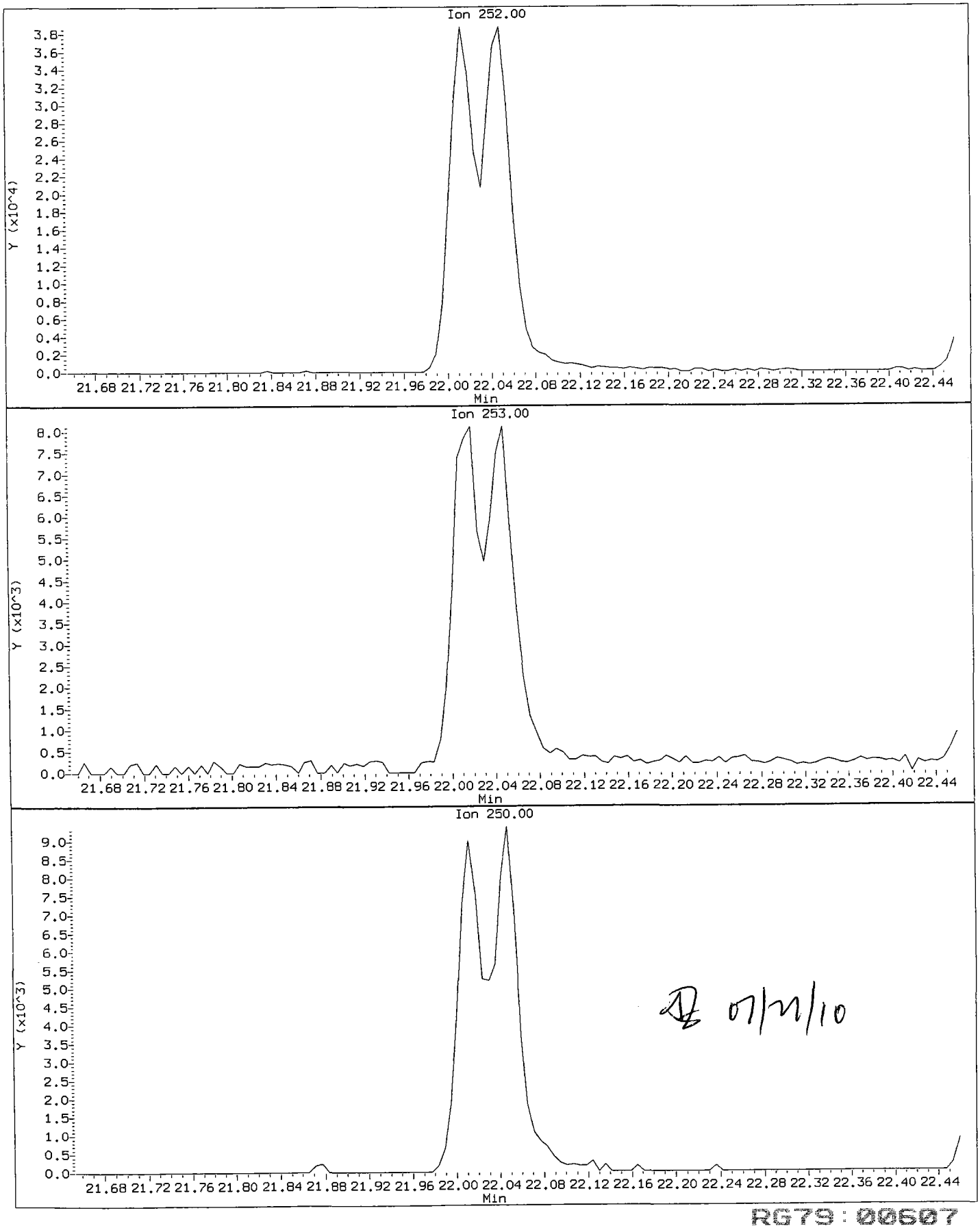
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 07/11/10

Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

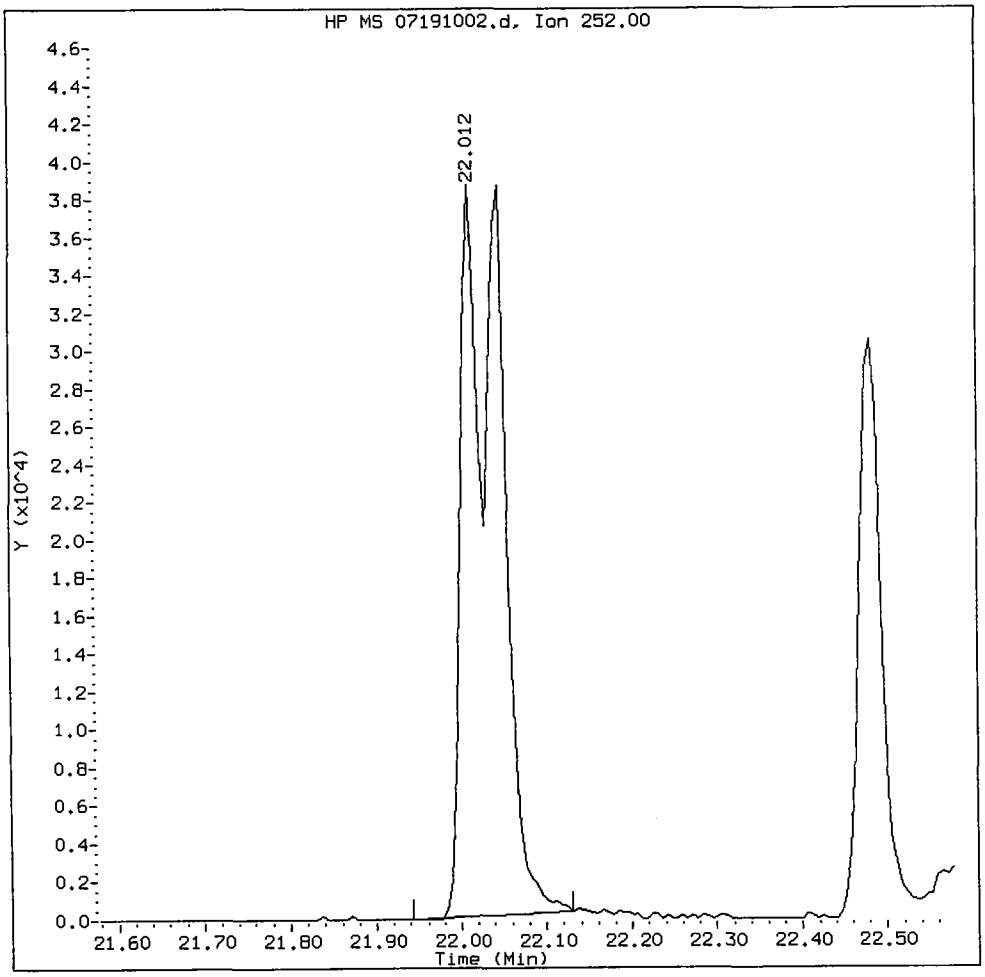
Compound: Total Benzofluoranthenes
CAS Number:



07/21/10

IC010719, /chem3/nt4.i/20100719.b/07191002.d

Total Benzofluoranthenes Amount: 2.00 Area: 123956



MANUAL INTEGRATION for Total Benzofluoranthenes

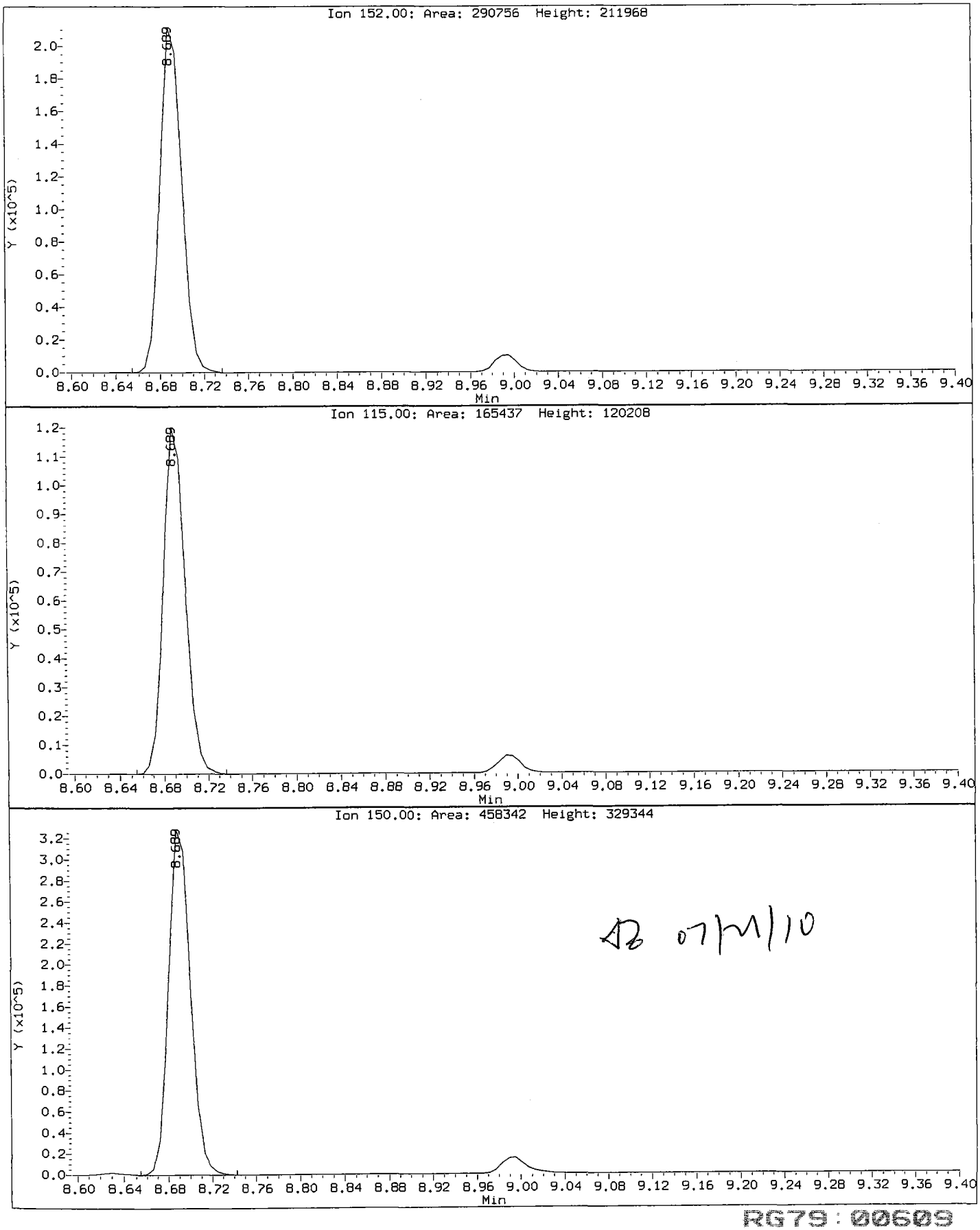
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: AB Date: 07/14/10

Data File: /chem3/nt4.i/20100719.b/07191002.d
Injection Date: 19-JUL-2010 16:56
Instrument: nt4.i
Client Sample ID: IC010719

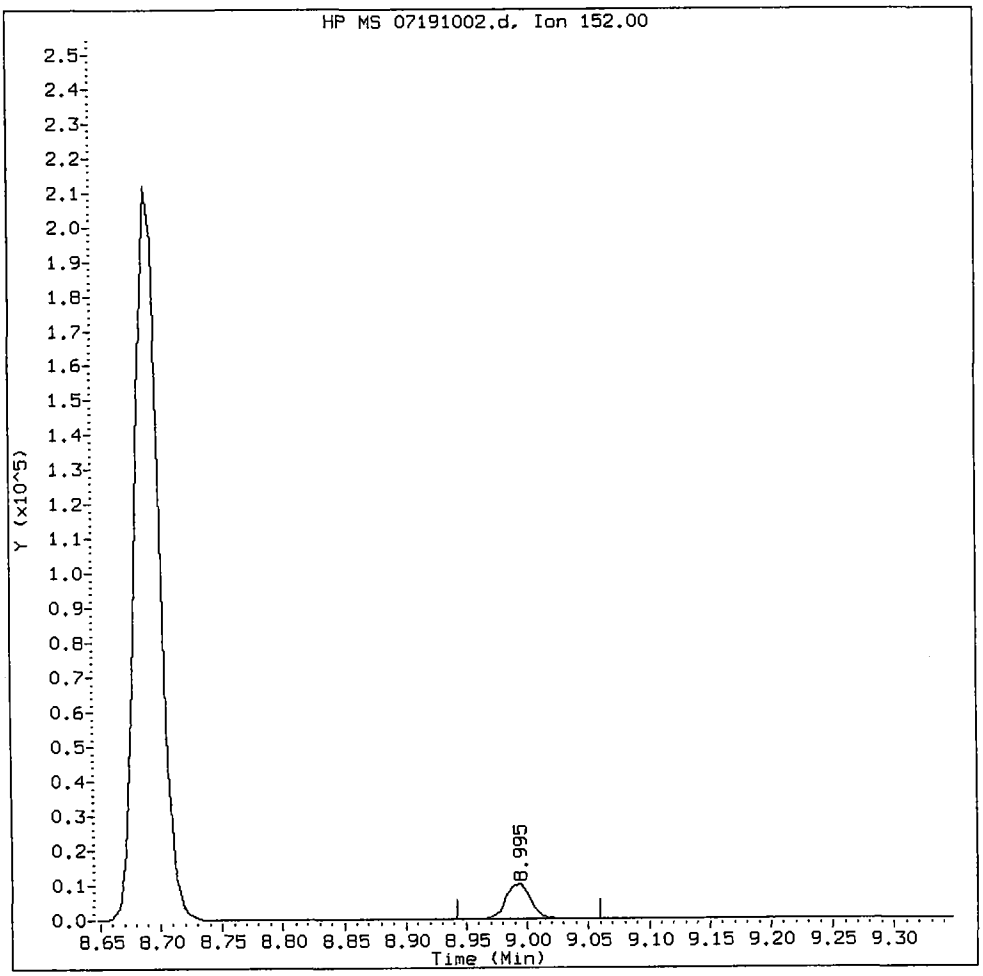
Compound: 1,2-Dichlorobenzene-d4
CAS Number: 2199-69-1



AB 07/21/10

IC010719, /chem3/nt4.i/20100719.b/07191002.d

1,2-Dichlorobenzene-d4 Amount: 1.00 Area: 14140



MANUAL INTEGRATION for 1,2-Dichlorobenzene-d4

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation
5. Other RT corrected

Analyst: [signature] Date: 07/21/10

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100719.b/07191003.d
Lab Smp Id: IC050719 Client Smp ID: IC050719
Inj Date : 19-JUL-2010 17:33
Operator : JZ Inst ID: nt4.i
Smp Info : IC050719
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100719.b/SW846100719.m
Meth Date : 21-Jul-2010 18:37 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 17:33 Cal File: 07191003.d
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

JZ 07/21/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.724	6.737	(0.774)	78735	5.00000	4.912
$	2 Phenol-d5	99	8.210	8.229	(0.945)	78205	5.00000	5.059
	3 Phenol	94	8.228	8.252	(0.947)	104398	5.00000	4.945
$	5 2-Chlorophenol-d4	132	8.386	8.393	(0.965)	82652	5.00000	4.925
	4 Bis(2-Chloroethyl)ether	93	8.339	8.352	(0.959)	73772	5.00000	4.772
	6 2-Chlorophenol	128	8.410	8.423	(0.968)	95435	5.00000	4.973
	7 1,3-Dichlorobenzene	146	8.633	8.640	(0.993)	105213	5.00000	4.676
*	8 1,4-Dichlorobenzene-d4	152	8.692	8.699	(1.000)	280196	20.0000	
	9 1,4-Dichlorobenzene	146	8.715	8.722	(1.003)	106033	5.00000	4.713
$	10 1,2-Dichlorobenzene-d4	152	8.991	8.998	(1.034)	64046	5.00000	4.845
	12 1,2-Dichlorobenzene	146	9.015	9.022	(1.037)	100850	5.00000	4.766
	11 Benzyl alcohol	108	8.944	8.969	(1.029)	63901	5.00000	5.000
	14 2,2'-oxybis(1-Chloropropane)	45	9.203	9.216	(1.059)	71419	5.00000	4.734
	13 2-Methylphenol	108	9.162	9.181	(1.054)	77789	5.00000	5.256
	17 Hexachloroethane	117	9.508	9.509	(1.094)	39059	5.00000	4.853
	16 N-Nitroso-di-n-propylamine	70	9.414	9.445	(1.083)	52329	5.00000	4.869
	15 4-Methylphenol	108	9.391	9.415	(1.080)	81439	5.00000	5.192
$	18 Nitrobenzene-d5	82	9.614	9.627	(0.895)	83867	5.00000	5.032
	19 Nitrobenzene	77	9.644	9.662	(0.898)	81864	5.00000	4.830
	20 Isophorone	82	10.014	10.038	(0.932)	131381	5.00000	4.745
	21 2-Nitrophenol	139	10.160	10.173	(0.946)	47132	5.00000	5.339
	22 2,4-Dimethylphenol	107	10.237	10.256	(0.953)	92317	5.00000	5.160
	23 Bis(2-Chloroethoxy)methane	93	10.390	10.408	(0.967)	91416	5.00000	4.707
	24 Benzoic acid	105	10.354	10.567	(0.964)	76277	10.0000	10.00
	25 2,4-Dichlorophenol	162	10.531	10.549	(0.980)	76474	5.00000	5.428
	26 1,2,4-Trichlorobenzene	180	10.677	10.684	(0.994)	85339	5.00000	4.773
*	27 Naphthalene-d8	136	10.742	10.749	(1.000)	1016171	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	10.771	10.784	(1.003)	258970	5.00000	4.633
	29 4-Chloroaniline	127	10.895	10.908	(1.014)	101792	5.00000	5.051
	30 Hexachlorobutadiene	225	11.083	11.084	(1.032)	47045	5.00000	4.599
	31 4-Chloro-3-methylphenol	107	11.688	11.701	(1.088)	68890	5.00000	5.708
	32 2-Methylnaphthalene	142	11.893	11.906	(1.107)	168353	5.00000	4.703
	33 Hexachlorocyclopentadiene	237	12.275	12.282	(0.901)	36180	5.00000	5.000
	34 2,4,6-Trichlorophenol	196	12.404	12.411	(0.910)	53574	5.00000	5.374
	35 2,4,5-Trichlorophenol	196	12.457	12.470	(0.914)	52498	5.00000	5.856
$	36 2-Fluorobiphenyl	172	12.534	12.541	(0.920)	199267	5.00000	4.763
	37 2-Chloronaphthalene	162	12.686	12.699	(0.931)	168111	5.00000	4.743
	38 2-Nitroaniline	65	12.904	12.923	(0.947)	27788	5.00000	5.681
	39 Dimethylphthalate	163	13.262	13.287	(0.973)	194622	5.00000	4.726
	40 Acenaphthylene	152	13.374	13.381	(0.981)	262580	5.00000	4.738
	41 2,6-Dinitrotoluene	165	13.362	13.387	(0.981)	41526	5.00000	5.326
*	42 Acenaphthene-d10	164	13.626	13.633	(1.000)	598563	20.0000	
	43 3-Nitroaniline	138	13.579	13.610	(0.997)	40739	5.00000	5.050
	44 Acenaphthene	153	13.673	13.686	(1.003)	164445	5.00000	4.688
	45 2,4-Dinitrophenol	184	13.744	13.780	(1.009)	10990	10.0000	10.00
	46 Dibenzofuran	168	13.938	13.951	(1.023)	223252	5.00000	4.755
	47 4-Nitrophenol	109	13.855	13.880	(1.017)	22195	5.00000	5.000
	48 2,4-Dinitrotoluene	165	13.996	14.021	(1.027)	52686	5.00000	5.501
	50 Diethylphthalate	149	14.419	14.438	(1.058)	204717	5.00000	4.651
	49 Fluorene	166	14.502	14.514	(1.064)	194472	5.00000	4.735
	51 4-Chlorophenyl-phenylether	204	14.508	14.514	(1.065)	92222	5.00000	4.701
	52 4-Nitroaniline	138	14.584	14.626	(1.070)	41882	5.00000	4.989
	53 4,6-Dinitro-2-methylphenol	198	14.660	14.697	(0.915)	44569	10.0000	10.00
	54 N-Nitrosodiphenylamine	169	14.707	14.732	(0.918)	142712	5.00000	4.860
$	55 2,4,6-Tribromophenol	330	14.925	14.937	(1.095)	21266	5.00000	5.568
	56 4-Bromophenyl-phenylether	248	15.301	15.308	(0.955)	50780	5.00000	4.886
	57 Hexachlorobenzene	284	15.536	15.548	(0.970)	52822	5.00000	4.645
	58 Pentachlorophenol	266	15.823	15.842	(0.988)	30827	5.00000	5.000
*	59 Phenanthrene-d10	188	16.023	16.036	(1.000)	1007780	20.0000	
	60 Phenanthrene	178	16.058	16.077	(1.002)	271669	5.00000	4.593
	61 Anthracene	178	16.135	16.153	(1.007)	278839	5.00000	4.659
	62 Carbazole	167	16.405	16.424	(1.024)	254700	5.00000	4.690
	63 Di-n-butylphthalate	149	17.086	17.093	(1.066)	334748	5.00000	4.886
	64 Fluoranthene	202	18.015	18.027	(1.124)	277298	5.00000	4.716
	65 Pyrene	202	18.379	18.397	(0.902)	291105	5.00000	4.608
$	66 Terphenyl-d14	244	18.667	18.674	(0.916)	179825	5.00000	4.663
	67 Butylbenzylphthalate	149	19.530	19.543	(0.958)	137881	5.00000	4.979
	68 Benzo(a)anthracene	228	20.347	20.365	(0.999)	265449	5.00000	4.631
*	69 Chrysene-d12	240	20.376	20.389	(1.000)	879562	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.335	20.348	(0.998)	88480	5.00000	5.218
	71 Chrysene	228	20.411	20.436	(1.002)	263806	5.00000	4.644
	72 bis(2-Ethylhexyl)phthalate	149	20.511	20.518	(0.956)	195395	5.00000	5.166
*	134 Di-n-octylphthalate-d4	153	21.451	21.458	(1.000)	1375669	20.0000	
	73 Di-n-octylphthalate	149	21.457	21.470	(1.000)	361557	5.00000	4.537

	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	22.015	22.040	(0.975)	281777	5.00000	4.793
	75 Benzo(k)fluoranthene	252	22.044	22.075	(0.977)	281647	5.00000	4.569
	187 Total Benzofluoranthenes	252	22.044	22.075	(0.977)	534883	10.0000	9.404
	76 Benzo(a)pyrene	252	22.485	22.510	(0.996)	240795	5.00000	4.722
*	77 Perylene-d12	264	22.573	22.580	(1.000)	872109	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	24.406	24.454	(1.081)	235258	5.00000	4.931
	79 Dibenzo(a,h)anthracene	278	24.429	24.477	(1.082)	188107	5.00000	5.131
	80 Benzo(g,h,i)perylene	276	24.929	24.989	(1.104)	196313	5.00000	4.881
	90 N-Nitrosodimethylamine	74	4.257	4.281	(0.490)	42007	5.00000	4.807
	103 Pyridine	79	4.245	4.240	(0.488)	66826	5.00000	5.138
	91 Aniline	93	8.240	8.252	(0.948)	108308	5.00000	4.815
	105 1-methylnaphthalene	142	12.070	12.082	(1.124)	161677	5.00000	4.629
	93 Benzidine	184	18.244	18.251	(0.895)	95796	5.00000	5.069
	111 Azobenzene (1,2-DP-Hydrazine)	77	14.760	14.779	(1.083)	157755	5.00000	4.804
	143 1,4-Dioxane	88	3.487	3.494	(0.401)	27080	5.00000	
$	137 d8-1,4-Dioxane	96	3.417	3.424	(0.393)	28631	5.00000	
	151 1,2,4,5-Tetrachlorobenzene	216	12.234	12.247	(0.898)	81805	5.00000	4.737
	120 2,3,4,6-Tetrachlorophenol	232	14.214	14.221	(1.043)	42525	5.00000	5.269
	144 alpha-Terpineol	59	10.777	10.790	(1.003)	46405	5.00000	4.732
	98 Retene	219	18.925	18.932	(0.929)	92486	5.00000	4.782
	133 Butylatedhydroxytoluene	205	13.767	13.774	(1.010)	155768	5.00000	4.651
	115 Tributyl Phosphate	99	14.766	14.802	(0.922)	204221	5.00000	4.963
	116 Dibutyl Phenyl Phosphate	175	16.528	16.535	(1.032)	161048	5.00000	5.031
	117 Butyl Diphenyl Phosphate	94	18.232	18.245	(0.895)	43853	5.00000	4.912
	118 Triphenyl Phosphate	326	19.853	19.866	(0.974)	43306	5.00000	4.787
	123 Acetophenone	105	9.373	9.392	(0.873)	109435	5.00000	4.776
	179 n-Decane	57	8.498	8.505	(0.978)	57625	5.00000	4.716
	180 n-Octadecane	57	15.876	15.883	(0.991)	76689	5.00000	5.015
	168 Pentachlorobenzene	250	13.979	13.992	(1.026)	60444	5.00000	4.526
	113 Diphenyl Oxide	170	12.863	12.870	(0.944)	170904	5.00000	4.716
	112 Biphenyl	154	12.675	12.682	(0.930)	200895	5.00000	4.799
	110 Tetrachloroguaiacol	247	15.947	15.971	(0.995)	56098	10.0000	9.796
	109 3,4,5-Trichloroguaiacol	213	14.302	14.315	(0.893)	27754	5.00000	4.993
	181 3,4,6-Trichloroguaiacol	211	14.425	14.444	(0.900)	33397	5.00000	5.072
	108 4,5,6-Trichloroguaiacol	213	15.342	15.349	(0.957)	29137	5.00000	5.056
	184 3,4-Dichloroguaiacol	192	12.751	12.764	(0.936)	29266	5.00000	5.110
	107 4,5-Dichloroguaiacol	192	13.527	13.545	(0.993)	39384	5.00000	5.129
	182 4,6-Dichloroguaiacol	192	13.562	13.580	(0.995)	37541	5.00000	4.850
	185 4-Chloroguaiacol	115	11.653	11.660	(1.341)	19294	2.50000	2.552
	106 Guaiacol	124	9.632	9.645	(1.108)	77212	5.00000	4.885

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 07191003.d
Lab Smp Id: IC050719
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Calibration Date: 19-JUL-2010
Calibration Time: 16:18
Client Smp ID: IC050719
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	280196	-21.40
27 Naphthalene-d8	1293412	646706	2586824	1016171	-21.43
42 Acenaphthene-d10	785897	392948	1571794	598563	-23.84
59 Phenanthrene-d10	1313990	656995	2627980	1007780	-23.30
69 Chrysene-d12	1155293	577646	2310586	879562	-23.87
134 Di-n-octylphthala	1825297	912648	3650594	1375669	-24.63
77 Perylene-d12	1146289	573144	2292578	872109	-23.92

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.70	8.20	9.20	8.69	-0.07
27 Naphthalene-d8	10.74	10.24	11.24	10.74	0.00
42 Acenaphthene-d10	13.63	13.13	14.13	13.63	0.00
59 Phenanthrene-d10	16.03	15.53	16.53	16.02	-0.04
69 Chrysene-d12	20.38	19.88	20.88	20.38	-0.03
134 Di-n-octylphthala	21.45	20.95	21.95	21.45	0.00
77 Perylene-d12	22.58	22.08	23.08	22.57	-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.

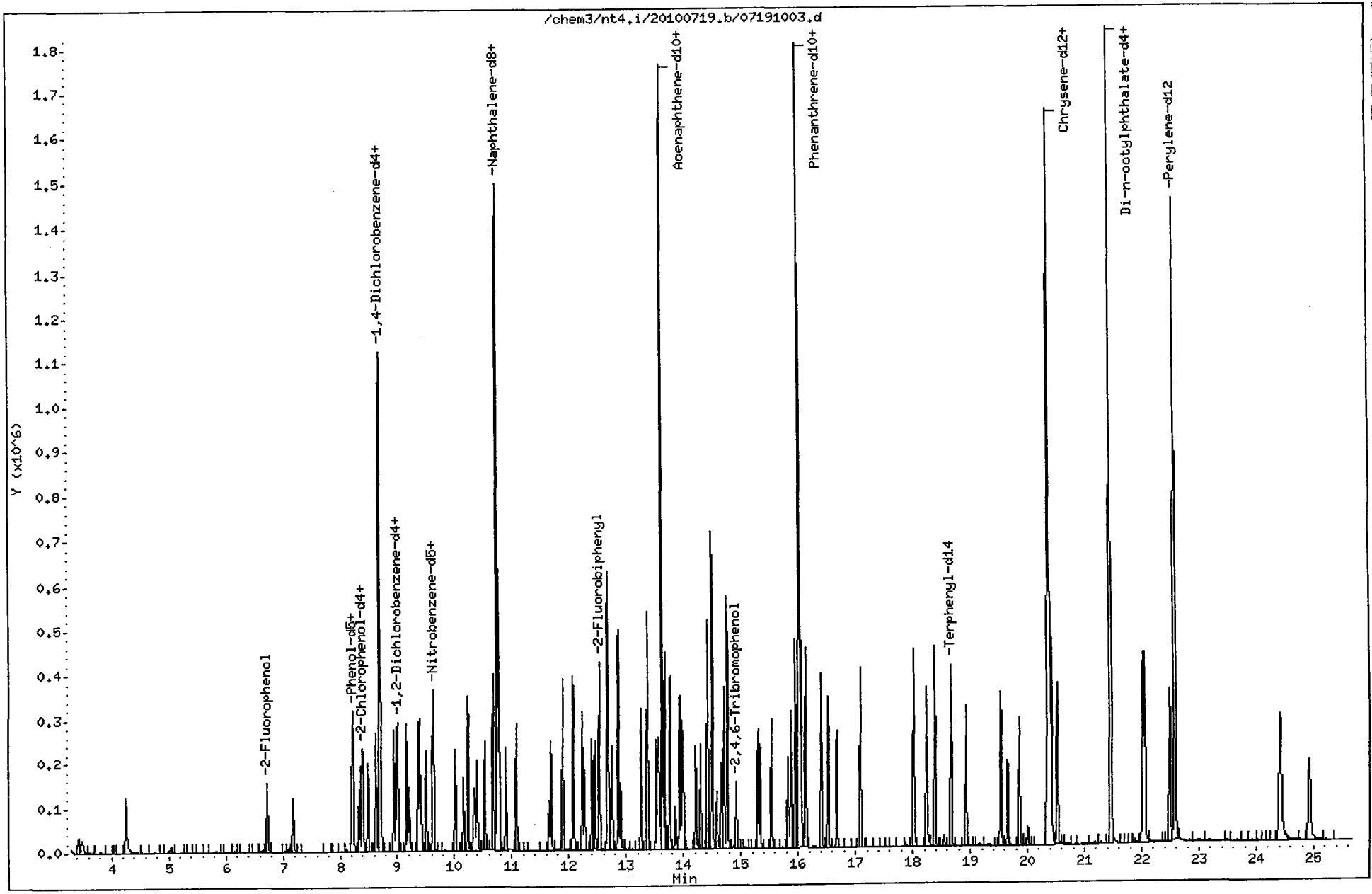
Data File: /chem3/nt4.i/20100719.b/07191003.d
Date : 19-JUL-2010 17:33
Client ID: IC050719
Sample Info: IC050719

Instrument: nt4.i

Operator: JZ
Column diameter: 0.32

Column phase: ZB-5msi

RG79:006615



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100719.b/07191004.d
Lab Smp Id: IC100719 Client Smp ID: IC100719
Inj Date : 19-JUL-2010 18:07
Operator : JZ Inst ID: nt4.i
Smp Info : IC100719
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100719.b/SW846100719.m
Meth Date : 21-Jul-2010 18:37 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 18:07 Cal File: 07191004.d
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

AB 07/21/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.731	6.737	(0.774)	195589	10.0000	9.194
$	2 Phenol-d5	99	8.212	8.229	(0.945)	197945	10.0000	9.506
	3 Phenol	94	8.229	8.252	(0.947)	279288	10.0000	9.719
$	5 2-Chlorophenol-d4	132	8.388	8.393	(0.965)	210444	10.0000	9.370
	4 Bis(2-Chloroethyl)ether	93	8.341	8.352	(0.959)	199065	10.0000	9.541
	6 2-Chlorophenol	128	8.412	8.423	(0.968)	264045	10.0000	9.978
	7 1,3-Dichlorobenzene	146	8.635	8.640	(0.993)	290331	10.0000	9.556
*	8 1,4-Dichlorobenzene-d4	152	8.694	8.699	(1.000)	386803	20.0000	
	9 1,4-Dichlorobenzene	146	8.717	8.722	(1.003)	296132	10.0000	9.685
$	10 1,2-Dichlorobenzene-d4	152	8.993	8.998	(1.034)	155193	10.0000	8.951
	12 1,2-Dichlorobenzene	146	9.017	9.022	(1.037)	273270	10.0000	9.561
	11 Benzyl alcohol	108	8.952	8.969	(1.030)	154068	10.0000	9.323
	14 2,2'-oxybis(1-Chloropropane)	45	9.205	9.216	(1.059)	191814	10.0000	9.459
	13 2-Methylphenol	108	9.164	9.181	(1.054)	215302	10.0000	10.35
	17 Hexachloroethane	117	9.504	9.509	(1.093)	107610	10.0000	9.788
	16 N-Nitroso-di-n-propylamine	70	9.422	9.445	(1.084)	139869	10.0000	9.611
	15 4-Methylphenol	108	9.393	9.415	(1.080)	216352	10.0000	9.995
$	18 Nitrobenzene-d5	82	9.616	9.627	(0.895)	207435	10.0000	9.663
	19 Nitrobenzene	77	9.645	9.662	(0.898)	213986	10.0000	9.758
	20 Isophorone	82	10.015	10.038	(0.932)	349735	10.0000	9.760
	21 2-Nitrophenol	139	10.162	10.173	(0.946)	135384	10.0000	11.08
	22 2,4-Dimethylphenol	107	10.239	10.256	(0.953)	245541	10.0000	10.32
	23 Bis(2-Chloroethoxy)methane	93	10.391	10.408	(0.967)	242519	10.0000	9.686
	24 Benzoic acid	105	10.397	10.567	(0.968)	295968	20.0000	23.88
	25 2,4-Dichlorophenol	162	10.538	10.549	(0.981)	215361	10.0000	11.06
	26 1,2,4-Trichlorobenzene	180	10.679	10.684	(0.994)	225136	10.0000	9.740
*	27 Naphthalene-d8	136	10.744	10.749	(1.000)	1330824	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	10.773	10.784	(1.003)	675065	10.0000	9.468
	29 4-Chloroaniline	127	10.896	10.908	(1.014)	267945	10.0000	10.10
	30 Hexachlorobutadiene	225	11.084	11.084	(1.032)	128941	10.0000	9.747
	31 4-Chloro-3-methylphenol	107	11.690	11.701	(1.088)	198573	10.0000	11.57
	32 2-Methylnaphthalene	142	11.895	11.906	(1.107)	441444	10.0000	9.604
	33 Hexachlorocyclopentadiene	237	12.277	12.282	(0.901)	115371	10.0000	10.84
	34 2,4,6-Trichlorophenol	196	12.400	12.411	(0.910)	149916	10.0000	10.75
	35 2,4,5-Trichlorophenol	196	12.459	12.470	(0.914)	153093	10.0000	11.64
$	36 2-Fluorobiphenyl	172	12.535	12.541	(0.920)	472954	10.0000	8.873
	37 2-Chloronaphthalene	162	12.682	12.699	(0.931)	448480	10.0000	9.592
	38 2-Nitroaniline	65	12.906	12.923	(0.947)	90139	10.0000	12.19
	39 Dimethylphthalate	163	13.264	13.287	(0.973)	531928	10.0000	9.727
	40 Acenaphthylene	152	13.370	13.381	(0.981)	706222	10.0000	9.638
	41 2,6-Dinitrotoluene	165	13.364	13.387	(0.981)	120276	10.0000	10.93
*	42 Acenaphthene-d10	164	13.628	13.633	(1.000)	805701	20.0000	
	43 3-Nitroaniline	138	13.587	13.610	(0.997)	117521	10.0000	10.53
	44 Acenaphthene	153	13.675	13.686	(1.003)	447973	10.0000	9.653
	45 2,4-Dinitrophenol	184	13.751	13.780	(1.009)	84130	20.0000	29.59
	46 Dibenzofuran	168	13.939	13.951	(1.023)	603633	10.0000	9.696
	47 4-Nitrophenol	109	13.857	13.880	(1.017)	72927	10.0000	10.99
	48 2,4-Dinitrotoluene	165	13.998	14.021	(1.027)	161965	10.0000	11.57
	50 Diethylphthalate	149	14.421	14.438	(1.058)	568753	10.0000	9.730
	49 Fluorene	166	14.497	14.514	(1.064)	529962	10.0000	9.720
	51 4-Chlorophenyl-phenylether	204	14.509	14.514	(1.065)	248604	10.0000	9.602
	52 4-Nitroaniline	138	14.586	14.626	(1.070)	109583	10.0000	9.797
	53 4,6-Dinitro-2-methylphenol	198	14.662	14.697	(0.915)	167601	20.0000	23.46
	54 N-Nitrosodiphenylamine	169	14.709	14.732	(0.918)	390380	10.0000	10.02
$	55 2,4,6-Tribromophenol	330	14.920	14.937	(1.095)	56765	10.0000	10.67
	56 4-Bromophenyl-phenylether	248	15.296	15.308	(0.955)	140953	10.0000	10.15
	57 Hexachlorobenzene	284	15.537	15.548	(0.970)	142687	10.0000	9.639
	58 Pentachlorophenol	266	15.825	15.842	(0.988)	92866	10.0000	10.64
*	59 Phenanthrene-d10	188	16.025	16.036	(1.000)	1335679	20.0000	
	60 Phenanthrene	178	16.060	16.077	(1.002)	723729	10.0000	9.474
	61 Anthracene	178	16.136	16.153	(1.007)	750646	10.0000	9.636
	62 Carbazole	167	16.407	16.424	(1.024)	660077	10.0000	9.431
	63 Di-n-butylphthalate	149	17.088	17.093	(1.066)	906961	10.0000	9.993
	64 Fluoranthene	202	18.016	18.027	(1.124)	764738	10.0000	9.875
	65 Pyrene	202	18.380	18.397	(0.902)	787792	10.0000	9.358
$	66 Terphenyl-d14	244	18.662	18.674	(0.916)	448627	10.0000	8.916
	67 Butylbenzylphthalate	149	19.532	19.543	(0.958)	418550	10.0000	10.64
	68 Benzo(a)anthracene	228	20.348	20.365	(0.999)	750485	10.0000	9.673
*	69 Chrysene-d12	240	20.378	20.389	(1.000)	1209826	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.337	20.348	(0.998)	255812	10.0000	10.62
	71 Chrysene	228	20.413	20.436	(1.002)	734332	10.0000	9.591
	72 bis(2-Ethylhexyl)phthalate	149	20.513	20.518	(0.956)	588126	10.0000	10.78
*	134 Di-n-octylphthalate-d4	153	21.447	21.458	(1.000)	1905755	20.0000	
	73 Di-n-octylphthalate	149	21.459	21.470	(1.001)	1013433	10.0000	9.438

	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	22.017	22.040	(0.975)	783710	10.0000	9.824
75	Benzo(k)fluoranthene	252	22.046	22.075	(0.977)	795376	10.0000	9.609
187	Total Benzofluoranthenes	252	22.046	22.075	(0.977)	1484981	20.0000	19.37
76	Benzo(a)pyrene	252	22.481	22.510	(0.996)	675517	10.0000	9.782
* 77	Perylene-d12	264	22.575	22.580	(1.000)	1193862	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	24.413	24.454	(1.081)	713289	10.0000	10.60
79	Dibenzo(a,h)anthracene	278	24.431	24.477	(1.082)	577618	10.0000	10.96
80	Benzo(g,h,i)perylene	276	24.936	24.989	(1.105)	629032	10.0000	10.91
90	N-Nitrosodimethylamine	74	4.276	4.281	(0.492)	109696	10.0000	9.377
103	Pyridine	79	4.258	4.240	(0.490)	201572	10.0000	10.79
91	Aniline	93	8.241	8.252	(0.948)	288356	10.0000	9.513
105	1-methylnaphthalene	142	12.071	12.082	(1.124)	428993	10.0000	9.576
93	Benzidine	184	18.245	18.251	(0.895)	250888	10.0000	9.765
111	Azobenzene (1,2-DP-Hydrazine)	77	14.762	14.779	(1.083)	427139	10.0000	9.774
143	1,4-Dioxane	88	3.512	3.494	(0.404)	74401	10.0000	
$ 137	d8-1,4-Dioxane	96	3.448	3.424	(0.397)	76835	10.0000	
151	1,2,4,5-Tetrachlorobenzene	216	12.236	12.247	(0.898)	205530	10.0000	9.197
120	2,3,4,6-Tetrachlorophenol	232	14.210	14.221	(1.043)	123547	10.0000	10.87
144	alpha-Terpineol	59	10.773	10.790	(1.003)	115158	10.0000	9.287
98	Retene	219	18.921	18.932	(0.928)	253770	10.0000	9.689
133	Butylatedhydroxytoluene	205	13.763	13.774	(1.010)	400152	10.0000	9.222
115	Tributyl Phosphate	99	14.768	14.802	(0.922)	550197	10.0000	10.06
116	Dibutyl Phenyl Phosphate	175	16.524	16.535	(1.031)	428511	10.0000	10.07
117	Butyl Diphenyl Phosphate	94	18.234	18.245	(0.895)	121912	10.0000	9.952
118	Triphenyl Phosphate	326	19.855	19.866	(0.974)	122543	10.0000	9.898
123	Acetophenone	105	9.375	9.392	(0.873)	298771	10.0000	9.971
179	n-Decane	57	8.500	8.505	(0.978)	160692	10.0000	9.679
180	n-Octadecane	57	15.878	15.883	(0.991)	200941	10.0000	9.943
168	Pentachlorobenzene	250	13.981	13.992	(1.026)	169400	10.0000	9.608
113	Diphenyl Oxide	170	12.864	12.870	(0.944)	439084	10.0000	9.312
112	Biphenyl	154	12.671	12.682	(0.930)	521643	10.0000	9.492
110	Tetrachloroguaiacol	247	15.948	15.971	(0.995)	158817	20.0000	20.61
109	3,4,5-Trichloroguaiacol	213	14.304	14.315	(0.893)	82226	10.0000	10.74
181	3,4,6-Trichloroguaiacol	211	14.427	14.444	(0.900)	98454	10.0000	10.82
108	4,5,6-Trichloroguaiacol	213	15.338	15.349	(0.957)	85057	10.0000	10.73
184	3,4-Dichloroguaiacol	192	12.753	12.764	(0.936)	81053	10.0000	10.34
107	4,5-Dichloroguaiacol	192	13.528	13.545	(0.993)	114248	10.0000	10.68
182	4,6-Dichloroguaiacol	192	13.563	13.580	(0.995)	102418	10.0000	9.886
185	4-Chloroguaiacol	115	11.648	11.660	(1.340)	56264	5.00000	5.254
106	Guaiacol	124	9.633	9.645	(1.108)	201151	10.0000	9.466

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 07191004.d
Lab Smp Id: IC100719
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Calibration Date: 19-JUL-2010
Calibration Time: 16:18
Client Smp ID: IC100719
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	386803	8.51
27 Naphthalene-d8	1293412	646706	2586824	1330824	2.89
42 Acenaphthene-d10	785897	392948	1571794	805701	2.52
59 Phenanthrene-d10	1313990	656995	2627980	1335679	1.65
69 Chrysene-d12	1155293	577646	2310586	1209826	4.72
134 Di-n-octylphthala	1825297	912648	3650594	1905755	4.41
77 Perylene-d12	1146289	573144	2292578	1193862	4.15

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.70	8.20	9.20	8.69	-0.05
27 Naphthalene-d8	10.74	10.24	11.24	10.74	0.01
42 Acenaphthene-d10	13.63	13.13	14.13	13.63	0.01
59 Phenanthrene-d10	16.03	15.53	16.53	16.02	-0.03
69 Chrysene-d12	20.38	19.88	20.88	20.38	-0.02
134 Di-n-octylphthala	21.45	20.95	21.95	21.45	-0.02
77 Perylene-d12	22.58	22.08	23.08	22.57	-0.02

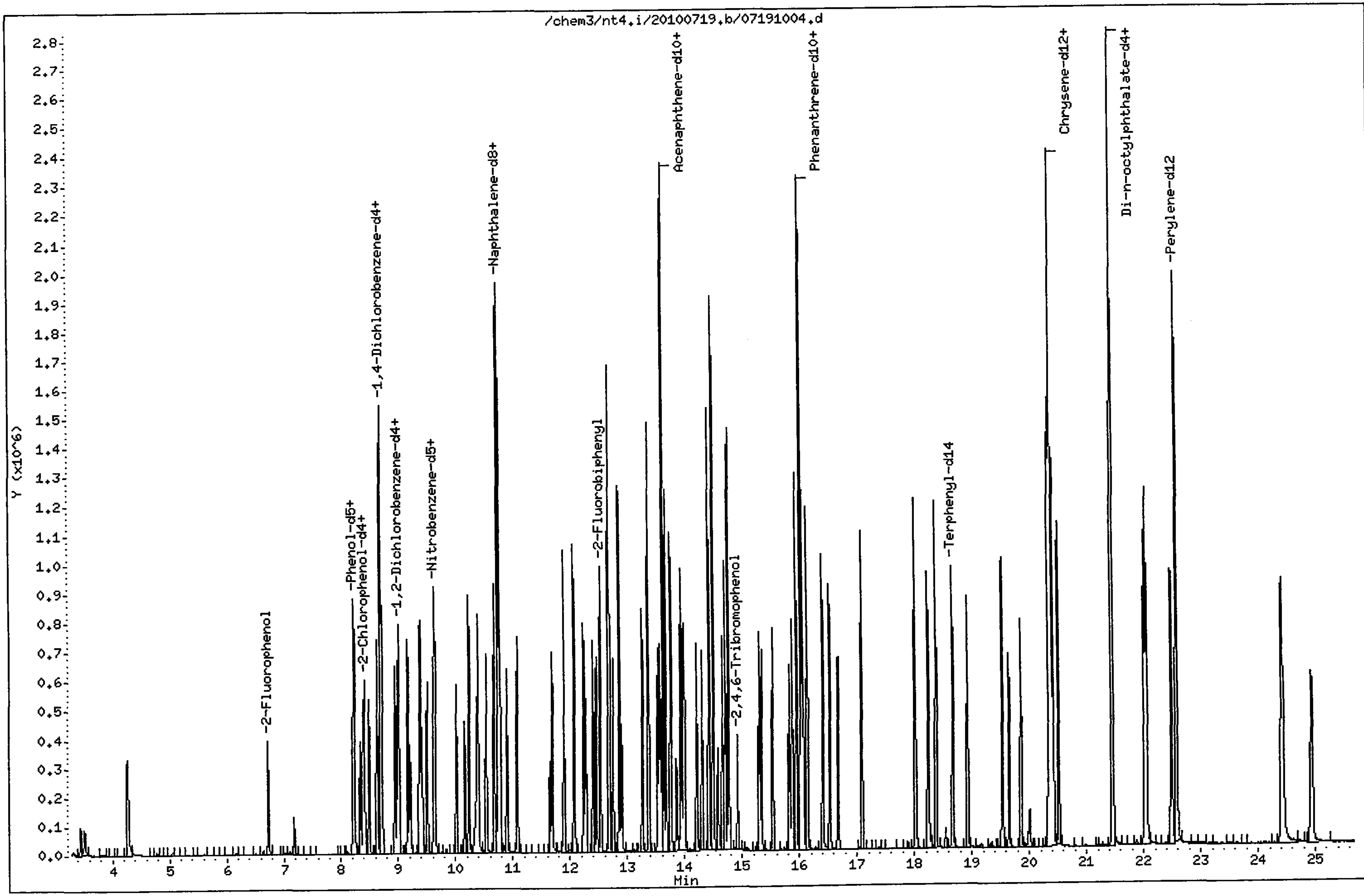
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20100719.b/07191004.d
Date : 19-JUL-2010 18:07
Client ID: IC100719
Sample Info: IC100719

Column phase: ZB-5msi

Instrument: nt4.i

Operator: JZ
Column diameter: 0.32



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100719.b/07191001.d
Lab Smp Id: IC250719 Client Smp ID: IC250719
Inj Date : 19-JUL-2010 16:18
Operator : JZ Inst ID: nt4.i
Smp Info : IC250719
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100719.b/SW846100719.m
Meth Date : 21-Jul-2010 18:37 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 16:18 Cal File: 07191001.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

JZ 07/21/10

AMOUNTS

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.736	6.737	(0.774)	509094	25.0000	25.72
$	2 Phenol-d5	99	8.216	8.229	(0.945)	502390	25.0000	25.87
	3 Phenol	94	8.234	8.252	(0.947)	633003	25.0000	24.17
$	5 2-Chlorophenol-d4	132	8.387	8.393	(0.964)	529269	25.0000	25.43
	4 Bis(2-Chloroethyl)ether	93	8.346	8.352	(0.959)	456355	25.0000	24.04
	6 2-Chlorophenol	128	8.416	8.423	(0.968)	608173	25.0000	24.95
	7 1,3-Dichlorobenzene	146	8.633	8.640	(0.993)	660365	25.0000	23.92
*	8 1,4-Dichlorobenzene-d4	152	8.698	8.699	(1.000)	356478	20.0000	
	9 1,4-Dichlorobenzene	146	8.721	8.722	(1.003)	671032	25.0000	24.10
$	10 1,2-Dichlorobenzene-d4	152	8.998	8.998	(1.034)	379735	25.0000	24.06
	12 1,2-Dichlorobenzene	146	9.015	9.022	(1.036)	618747	25.0000	23.85
	11 Benzyl alcohol	108	8.956	8.969	(1.030)	349815	25.0000	23.61
	14 2,2'-oxybis(1-Chloropropane)	45	9.209	9.216	(1.059)	428872	25.0000	23.43
	13 2-Methylphenol	108	9.174	9.181	(1.055)	489525	25.0000	25.40
	17 Hexachloroethane	117	9.509	9.509	(1.093)	249727	25.0000	24.73
	16 N-Nitroso-di-n-propylamine	70	9.426	9.445	(1.084)	318375	25.0000	24.04
	15 4-Methylphenol	108	9.397	9.415	(1.080)	504582	25.0000	25.22
$	18 Nitrobenzene-d5	82	9.620	9.627	(0.896)	514519	25.0000	24.74
	19 Nitrobenzene	77	9.650	9.662	(0.898)	489280	25.0000	23.44
	20 Isophorone	82	10.026	10.038	(0.933)	813652	25.0000	23.75
	21 2-Nitrophenol	139	10.167	10.173	(0.946)	334369	25.0000	27.29
	22 2,4-Dimethylphenol	107	10.243	10.256	(0.954)	572473	25.0000	24.81
	23 Bis(2-Chloroethoxy)methane	93	10.396	10.408	(0.968)	576503	25.0000	24.00
	24 Benzoic acid	105	10.466	10.567	(0.974)	865635	50.0000	62.72
	25 2,4-Dichlorophenol	162	10.543	10.549	(0.981)	527621	25.0000	27.09
	26 1,2,4-Trichlorobenzene	180	10.684	10.684	(0.995)	536705	25.0000	24.16
*	27 Naphthalene-d8	136	10.742	10.749	(1.000)	1293412	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	10.778	10.784	(1.003)	1556045	25.0000	23.04
	29 4-Chloroaniline	127	10.901	10.908	(1.015)	637156	25.0000	24.79
	30 Hexachlorobutadiene	225	11.083	11.084	(1.032)	301348	25.0000	23.81
	31 4-Chloro-3-methylphenol	107	11.694	11.701	(1.089)	500175	25.0000	28.57
	32 2-Methylnaphthalene	142	11.900	11.906	(1.108)	1050247	25.0000	23.86
	33 Hexachlorocyclopentadiene	237	12.281	12.282	(0.901)	313309	25.0000	28.24
	34 2,4,6-Trichlorophenol	196	12.405	12.411	(0.910)	377521	25.0000	27.01
	35 2,4,5-Trichlorophenol	196	12.463	12.470	(0.915)	403239	25.0000	29.54
$	36 2-Fluorobiphenyl	172	12.540	12.541	(0.920)	1236271	25.0000	24.07
	37 2-Chloronaphthalene	162	12.687	12.699	(0.931)	1084794	25.0000	24.08
	38 2-Nitroaniline	65	12.910	12.923	(0.947)	233355	25.0000	30.14
	39 Dimethylphthalate	163	13.268	13.287	(0.974)	1257560	25.0000	23.92
	40 Acenaphthylene	152	13.374	13.381	(0.981)	1642937	25.0000	23.46
	41 2,6-Dinitrotoluene	165	13.374	13.387	(0.981)	299507	25.0000	27.11
*	42 Acenaphthene-d10	164	13.627	13.633	(1.000)	785897	20.0000	
	43 3-Nitroaniline	138	13.591	13.610	(0.997)	270236	25.0000	24.87
	44 Acenaphthene	153	13.679	13.686	(1.004)	1047303	25.0000	23.58
	45 2,4-Dinitrophenol	184	13.756	13.780	(1.009)	317048	50.0000	80.02
	46 Dibenzofuran	168	13.944	13.951	(1.023)	1398933	25.0000	23.50
	47 4-Nitrophenol	109	13.867	13.880	(1.018)	191448	25.0000	27.88
	48 2,4-Dinitrotoluene	165	14.008	14.021	(1.028)	397346	25.0000	27.96
	50 Diethylphthalate	149	14.431	14.438	(1.059)	1294538	25.0000	23.24
	49 Fluorene	166	14.508	14.514	(1.065)	1237613	25.0000	23.68
	51 4-Chlorophenyl-phenylether	204	14.514	14.514	(1.065)	591928	25.0000	23.81
	52 4-Nitroaniline	138	14.596	14.626	(1.071)	259237	25.0000	24.06
	53 4,6-Dinitro-2-methylphenol	198	14.672	14.697	(0.915)	487973	50.0000	61.47
	54 N-Nitrosodiphenylamine	169	14.713	14.732	(0.918)	928356	25.0000	24.41
$	55 2,4,6-Tribromophenol	330	14.931	14.937	(1.096)	153201	25.0000	28.25
	56 4-Bromophenyl-phenylether	248	15.301	15.308	(0.955)	337061	25.0000	24.76
	57 Hexachlorobenzene	284	15.542	15.548	(0.970)	336992	25.0000	23.58
	58 Pentachlorophenol	266	15.830	15.842	(0.988)	246760	25.0000	27.37
*	59 Phenanthrene-d10	188	16.029	16.036	(1.000)	1313990	20.0000	
	60 Phenanthrene	178	16.064	16.077	(1.002)	1705790	25.0000	23.23
	61 Anthracene	178	16.141	16.153	(1.007)	1764147	25.0000	23.48
	62 Carbazole	167	16.411	16.424	(1.024)	1555593	25.0000	23.15
	63 Di-n-butylphthalate	149	17.093	17.093	(1.066)	2121495	25.0000	24.06
	64 Fluoranthene	202	18.021	18.027	(1.124)	1808894	25.0000	24.05
	65 Pyrene	202	18.385	18.397	(0.902)	1867259	25.0000	23.65
$	66 Terphenyl-d14	244	18.667	18.674	(0.916)	1158832	25.0000	24.33
	67 Butylbenzylphthalate	149	19.536	19.543	(0.958)	970822	25.0000	25.62
	68 Benzo(a)anthracene	228	20.353	20.365	(0.999)	1698446	25.0000	23.41
*	69 Chrysene-d12	240	20.382	20.389	(1.000)	1155293	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.341	20.348	(0.998)	576157	25.0000	25.04
	71 Chrysene	228	20.423	20.436	(1.002)	1672513	25.0000	23.37
	72 bis(2-Ethylhexyl)phthalate	149	20.517	20.518	(0.956)	1334441	25.0000	25.41
*	134 Di-n-octylphthalate-d4	153	21.451	21.458	(1.000)	1825297	20.0000	
	73 Di-n-octylphthalate	149	21.463	21.470	(1.001)	2271687	25.0000	22.75

	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	22.021	22.040	(0.975)	1734852	25.0000	23.19
	75 Benzo(k)fluoranthene	252	22.056	22.075	(0.977)	1915421	25.0000	24.32
	187 Total Benzofluoranthenes	252	22.056	22.075	(0.977)	3436118	50.0000	47.47
	76 Benzo(a)pyrene	252	22.491	22.510	(0.996)	1612522	25.0000	24.49
*	77 Perylene-d12	264	22.579	22.580	(1.000)	1146289	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	24.424	24.454	(1.082)	1783402	25.0000	26.89
	79 Dibenzo(a,h)anthracene	278	24.447	24.477	(1.083)	1472138	25.0000	27.94
	80 Benzo(g,h,i)perylene	276	24.958	24.989	(1.105)	1499429	25.0000	26.53
	90 N-Nitrosodimethylamine	74	4.280	4.281	(0.492)	258666	25.0000	24.24
	103 Pyridine	79	4.251	4.240	(0.489)	474630	25.0000	26.87
	91 Aniline	93	8.246	8.252	(0.948)	641945	25.0000	23.45
	105 1-methylnaphthalene	142	12.076	12.082	(1.124)	1026237	25.0000	23.91
	93 Benzidine	184	18.250	18.251	(0.895)	500943	25.0000	21.40
	111 Azobenzene (1,2-DP-Hydrazine)	77	14.766	14.779	(1.084)	965964	25.0000	23.20
	143 1,4-Dioxane	88	3.511	3.494	(0.404)	171754	25.0000	
$	137 d8-1,4-Dioxane	96	3.440	3.424	(0.396)	177040	25.0000	
	151 1,2,4,5-Tetrachlorobenzene	216	12.240	12.247	(0.898)	514416	25.0000	23.93
	120 2,3,4,6-Tetrachlorophenol	232	14.214	14.221	(1.043)	321030	25.0000	27.86
	144 alpha-Terpineol	59	10.783	10.790	(1.004)	272097	25.0000	23.14
	98 Retene	219	18.925	18.932	(0.929)	632122	25.0000	25.20
	133 Butylatedhydroxytoluene	205	13.768	13.774	(1.010)	959628	25.0000	23.21
	115 Tributyl Phosphate	99	14.778	14.802	(0.922)	1270123	25.0000	23.94
	116 Dibutyl Phenyl Phosphate	175	16.529	16.535	(1.031)	1078412	25.0000	25.56
	117 Butyl Diphenyl Phosphate	94	18.238	18.245	(0.895)	316769	25.0000	26.53
	118 Triphenyl Phosphate	326	19.859	19.866	(0.974)	303151	25.0000	25.48
	123 Acetophenone	105	9.379	9.392	(0.873)	677189	25.0000	23.67
	179 n-Decane	57	8.498	8.505	(0.977)	358983	25.0000	23.83
	180 n-Octadecane	57	15.876	15.883	(0.990)	455513	25.0000	23.40
	168 Pentachlorobenzene	250	13.985	13.992	(1.026)	401776	25.0000	23.75
	113 Diphenyl Oxide	170	12.863	12.870	(0.944)	1050883	25.0000	23.35
	112 Biphenyl	154	12.675	12.682	(0.930)	1229577	25.0000	23.42
	110 Tetrachloroguaiacol	247	15.959	15.971	(0.996)	400470	50.0000	52.09
	109 3,4,5-Trichloroguaiacol	213	14.308	14.315	(0.893)	204465	25.0000	26.58
	181 3,4,6-Trichloroguaiacol	211	14.431	14.444	(0.900)	243206	25.0000	26.59
	108 4,5,6-Trichloroguaiacol	213	15.342	15.349	(0.957)	212755	25.0000	26.67
	184 3,4-Dichloroguaiacol	192	12.757	12.764	(0.936)	210509	25.0000	26.84
	107 4,5-Dichloroguaiacol	192	13.539	13.545	(0.994)	282749	25.0000	26.54
	182 4,6-Dichloroguaiacol	192	13.568	13.580	(0.996)	265540	25.0000	25.95
	185 4-Chloroguaiacol	115	11.653	11.660	(1.340)	145555	12.5000	14.11
	106 Guaiacol	124	9.638	9.645	(1.108)	478994	25.0000	24.59

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 07191001.d
Lab Smp Id: IC250719
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Calibration Date: 19-JUL-2010
Calibration Time: 16:18
Client Smp ID: IC250719
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	356478	0.00
27 Naphthalene-d8	1293412	646706	2586824	1293412	0.00
42 Acenaphthene-d10	785897	392948	1571794	785897	0.00
59 Phenanthrene-d10	1313990	656995	2627980	1313990	0.00
69 Chrysene-d12	1155293	577646	2310586	1155293	0.00
134 Di-n-octylphthala	1825297	912648	3650594	1825297	0.00
77 Perylene-d12	1146289	573144	2292578	1146289	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.70	8.20	9.20	8.70	0.00
27 Naphthalene-d8	10.74	10.24	11.24	10.74	0.00
42 Acenaphthene-d10	13.63	13.13	14.13	13.63	0.00
59 Phenanthrene-d10	16.03	15.53	16.53	16.03	0.00
69 Chrysene-d12	20.38	19.88	20.88	20.38	0.00
134 Di-n-octylphthala	21.45	20.95	21.95	21.45	0.00
77 Perylene-d12	22.58	22.08	23.08	22.58	0.00

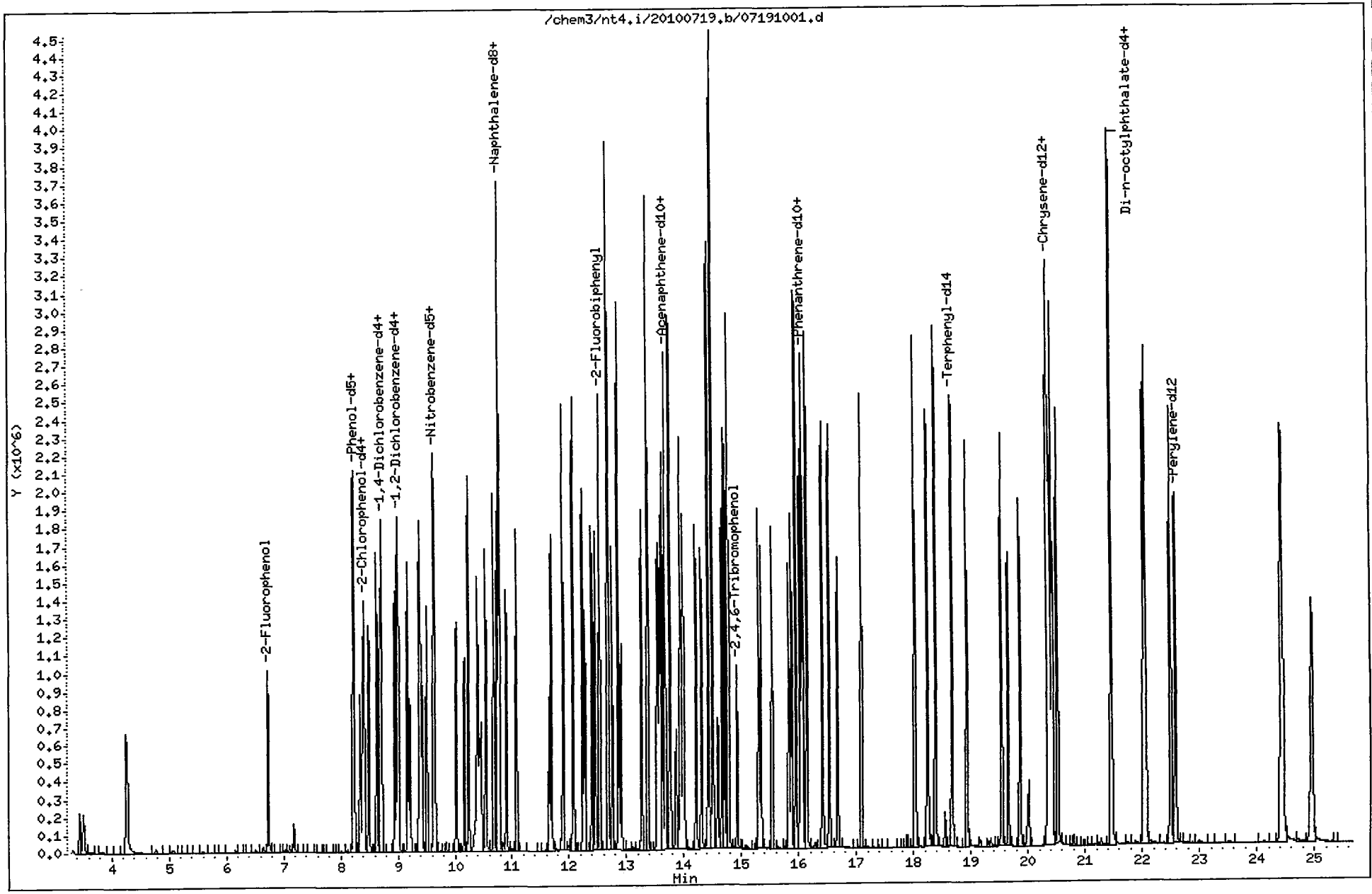
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20100719.b/07191001.d
Date : 19-JUL-2010 16:18
Client ID: IC250719
Sample Info: IC250719

Instrument: nt4.i

Operator: JZ
Column diameter: 0.32

Column phase: ZB-5msi



RG79:00625

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100719.b/07191005.d
Lab Smp Id: IC400719 Client Smp ID: IC400719
Inj Date : 19-JUL-2010 18:41
Operator : JZ Inst ID: nt4.i
Smp Info : IC400719
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100719.b/SW846100719.m
Meth Date : 21-Jul-2010 18:37 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 18:41 Cal File: 07191005.d
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

JZ 07/21/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.738	6.737	(0.775)	805836	40.0000	38.46
$	2 Phenol-d5	99	8.224	8.229	(0.946)	800887	40.0000	38.86
	3 Phenol	94	8.242	8.252	(0.948)	970435	40.0000	35.61
$	5 2-Chlorophenol-d4	132	8.395	8.393	(0.966)	851467	40.0000	38.60
	4 Bis(2-Chloroethyl)ether	93	8.348	8.352	(0.960)	765819	40.0000	38.17
	6 2-Chlorophenol	128	8.418	8.423	(0.968)	939854	40.0000	36.80
	7 1,3-Dichlorobenzene	146	8.636	8.640	(0.993)	1102160	40.0000	37.86
*	8 1,4-Dichlorobenzene-d4	152	8.694	8.699	(1.000)	381018	20.0000	
	9 1,4-Dichlorobenzene	146	8.724	8.722	(1.003)	1123923	40.0000	38.19
$	10 1,2-Dichlorobenzene-d4	152	9.000	8.998	(1.035)	620692	40.0000	37.40
	12 1,2-Dichlorobenzene	146	9.017	9.022	(1.037)	1045036	40.0000	38.13
	11 Benzyl alcohol	108	8.959	8.969	(1.030)	560984	40.0000	36.47
	14 2,2'-oxybis(1-Chloropropane)	45	9.211	9.216	(1.059)	703825	40.0000	36.71
	13 2-Methylphenol	108	9.176	9.181	(1.055)	768962	40.0000	37.84
	17 Hexachloroethane	117	9.511	9.509	(1.094)	422293	40.0000	39.30
	16 N-Nitroso-di-n-propylamine	70	9.434	9.445	(1.085)	535476	40.0000	38.25
	15 4-Methylphenol	108	9.405	9.415	(1.082)	798691	40.0000	37.85
$	18 Nitrobenzene-d5	82	9.622	9.627	(0.896)	826176	40.0000	38.67
	19 Nitrobenzene	77	9.652	9.662	(0.898)	805687	40.0000	37.76
	20 Isophorone	82	10.028	10.038	(0.933)	1335102	40.0000	38.07
	21 2-Nitrophenol	139	10.169	10.173	(0.946)	520600	40.0000	40.81
	22 2,4-Dimethylphenol	107	10.245	10.256	(0.954)	878355	40.0000	37.35
	23 Bis(2-Chloroethoxy)methane	93	10.398	10.408	(0.968)	928673	40.0000	37.83
	24 Benzoic acid	105	10.509	10.567	(0.978)	1401298	80.0000	92.78
	25 2,4-Dichlorophenol	162	10.545	10.549	(0.981)	807406	40.0000	40.01
	26 1,2,4-Trichlorobenzene	180	10.680	10.684	(0.994)	883928	40.0000	38.71
*	27 Naphthalene-d8	136	10.744	10.749	(1.000)	1340154	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	10.780	10.784	(1.003)	2403128	40.0000	35.34
29 4-Chloroaniline	127	10.903	10.908	(1.015)	1000805	40.0000	38.04
30 Hexachlorobutadiene	225	11.085	11.084	(1.032)	502639	40.0000	38.65
31 4-Chloro-3-methylphenol	107	11.696	11.701	(1.089)	765878	40.0000	41.76
32 2-Methylnaphthalene	142	11.902	11.906	(1.108)	1711633	40.0000	38.00
33 Hexachlorocyclopentadiene	237	12.278	12.282	(0.901)	553109	40.0000	44.81
34 2,4,6-Trichlorophenol	196	12.407	12.411	(0.910)	605024	40.0000	40.43
35 2,4,5-Trichlorophenol	196	12.466	12.470	(0.915)	647741	40.0000	43.47
$ 36 2-Fluorobiphenyl	172	12.536	12.541	(0.920)	1951425	40.0000	36.38
37 2-Chloronaphthalene	162	12.689	12.699	(0.931)	1782192	40.0000	37.60
38 2-Nitroaniline	65	12.912	12.923	(0.947)	385828	40.0000	45.16
39 Dimethylphthalate	163	13.276	13.287	(0.974)	2076257	40.0000	37.54
40 Acenaphthylene	152	13.376	13.381	(0.981)	2618537	40.0000	35.91
41 2,6-Dinitrotoluene	165	13.376	13.387	(0.981)	506024	40.0000	42.28
* 42 Acenaphthene-d10	164	13.629	13.633	(1.000)	839318	20.0000	
43 3-Nitroaniline	138	13.599	13.610	(0.998)	411097	40.0000	36.26
44 Acenaphthene	153	13.682	13.686	(1.004)	1730659	40.0000	37.13
45 2,4-Dinitrophenol	184	13.764	13.780	(1.010)	599293	80.0000	118.8
46 Dibenzofuran	168	13.946	13.951	(1.023)	2282796	40.0000	36.65
47 4-Nitrophenol	109	13.870	13.880	(1.018)	324791	40.0000	43.13
48 2,4-Dinitrotoluene	165	14.011	14.021	(1.028)	682861	40.0000	43.90
50 Diethylphthalate	149	14.434	14.438	(1.059)	2127981	40.0000	36.54
49 Fluorene	166	14.510	14.514	(1.065)	1979735	40.0000	36.29
51 4-Chlorophenyl-phenylether	204	14.516	14.514	(1.065)	980934	40.0000	37.52
52 4-Nitroaniline	138	14.610	14.626	(1.072)	465525	40.0000	40.36
53 4,6-Dinitro-2-methylphenol	198	14.680	14.697	(0.916)	814156	80.0000	92.95
54 N-Nitrosodiphenylamine	169	14.721	14.732	(0.918)	1558783	40.0000	39.41
$ 55 2,4,6-Tribromophenol	330	14.933	14.937	(1.096)	249842	40.0000	42.47
56 4-Bromophenyl-phenylether	248	15.303	15.308	(0.955)	565124	40.0000	39.82
57 Hexachlorobenzene	284	15.544	15.548	(0.970)	559987	40.0000	38.00
58 Pentachlorophenol	266	15.832	15.842	(0.988)	393069	40.0000	41.31
* 59 Phenanthrene-d10	188	16.031	16.036	(1.000)	1371590	20.0000	
60 Phenanthrene	178	16.073	16.077	(1.003)	2705033	40.0000	36.15
61 Anthracene	178	16.143	16.153	(1.007)	2803865	40.0000	36.53
62 Carbazole	167	16.413	16.424	(1.024)	2542023	40.0000	36.93
63 Di-n-butylphthalate	149	17.095	17.093	(1.066)	3260353	40.0000	36.25
64 Fluoranthene	202	18.023	18.027	(1.124)	2935696	40.0000	37.88
65 Pyrene	202	18.387	18.397	(0.902)	3025660	40.0000	35.90
$ 66 Terphenyl-d14	244	18.669	18.674	(0.916)	1839228	40.0000	36.14
67 Butylbenzylphthalate	149	19.538	19.543	(0.958)	1646877	40.0000	39.77
68 Benzo(a)anthracene	228	20.361	20.365	(0.999)	2823099	40.0000	36.36
* 69 Chrysene-d12	240	20.384	20.389	(1.000)	1264495	20.0000	
70 3,3'-Dichlorobenzidine	252	20.343	20.348	(0.998)	950636	40.0000	38.18
71 Chrysene	228	20.425	20.436	(1.002)	2729145	40.0000	35.77
72 bis(2-Ethylhexyl)phthalate	149	20.514	20.518	(0.956)	2243796	40.0000	40.79
* 134 Di-n-octylphthalate-d4	153	21.453	21.458	(1.000)	1902533	20.0000	
73 Di-n-octylphthalate	149	21.465	21.470	(1.001)	3553588	40.0000	35.17

	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	22.029	22.040	(0.976)	2935610	40.0000	37.62
75	Benzo(k)fluoranthene	252	22.064	22.075	(0.977)	2948453	40.0000	36.19
187	Total Benzofluoranthenes	252	22.064	22.075	(0.977)	5543714	80.0000	73.74
76	Benzo(a)pyrene	252	22.499	22.510	(0.997)	2634243	40.0000	38.20
* 77	Perylene-d12	264	22.575	22.580	(1.000)	1213809	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	24.438	24.454	(1.082)	3062042	40.0000	42.84
79	Dibenzo(a,h)anthracene	278	24.455	24.477	(1.083)	2520948	40.0000	44.05
80	Benzo(g,h,i)perylene	276	24.972	24.989	(1.106)	2618046	40.0000	42.94
90	N-Nitrosodimethylamine	74	4.288	4.281	(0.493)	430140	40.0000	38.14
103	Pyridine	79	4.253	4.240	(0.489)	798092	40.0000	41.80
91	Aniline	93	8.248	8.252	(0.949)	1030671	40.0000	36.09
105	1-methylnaphthalene	142	12.078	12.082	(1.124)	1690741	40.0000	38.40
93	Benzidine	184	18.252	18.251	(0.895)	836928	40.0000	33.91
111	Azobenzene (1,2-DP-Hydrazine)	77	14.774	14.779	(1.084)	1574216	40.0000	36.24
143	1,4-Dioxane	88	3.513	3.494	(0.404)	291223	40.0000	
$ 137	d8-1,4-Dioxane	96	3.448	3.424	(0.397)	303363	40.0000	
151	1,2,4,5-Tetrachlorobenzene	216	12.242	12.247	(0.898)	837944	40.0000	37.15
120	2,3,4,6-Tetrachlorophenol	232	14.216	14.221	(1.043)	530279	40.0000	42.44
144	alpha-Terpineol	59	10.786	10.790	(1.004)	410363	40.0000	34.78
98	Retene	219	18.927	18.932	(0.929)	1052055	40.0000	38.65
133	Butylatedhydroxytoluene	205	13.770	13.774	(1.010)	1500329	40.0000	35.04
115	Tributyl Phosphate	99	14.792	14.802	(0.923)	2023303	40.0000	37.18
116	Dibutyl Phenyl Phosphate	175	16.531	16.535	(1.031)	1701062	40.0000	38.89
117	Butyl Diphenyl Phosphate	94	18.240	18.245	(0.895)	517626	40.0000	39.68
118	Triphenyl Phosphate	326	19.861	19.866	(0.974)	498877	40.0000	38.63
123	Acetophenone	105	9.382	9.392	(0.873)	1136208	40.0000	38.65
179	n-Decane	57	8.500	8.505	(0.978)	590284	40.0000	37.28
180	n-Octadecane	57	15.879	15.883	(0.990)	714571	40.0000	36.04
168	Pentachlorobenzene	250	13.987	13.992	(1.026)	676775	40.0000	37.94
113	Diphenyl Oxide	170	12.865	12.870	(0.944)	1726304	40.0000	36.67
112	Biphenyl	154	12.677	12.682	(0.930)	1990603	40.0000	36.32
110	Tetrachloroguaiacol	247	15.961	15.971	(0.996)	654310	80.0000	81.22
109	3,4,5-Trichloroguaiacol	213	14.310	14.315	(0.893)	346917	40.0000	42.53
181	3,4,6-Trichloroguaiacol	211	14.434	14.444	(0.900)	407062	40.0000	42.08
108	4,5,6-Trichloroguaiacol	213	15.344	15.349	(0.957)	357303	40.0000	42.30
184	3,4-Dichloroguaiacol	192	12.759	12.764	(0.936)	360234	40.0000	42.38
107	4,5-Dichloroguaiacol	192	13.541	13.545	(0.994)	535237	40.0000	45.44
182	4,6-Dichloroguaiacol	192	13.570	13.580	(0.996)	412019	40.0000	38.14
185	4-Chloroguaiacol	115	11.655	11.660	(1.341)	239833	20.0000	21.38
106	Guaiacol	124	9.640	9.645	(1.109)	785043	40.0000	38.14

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 07191005.d
Lab Smp Id: IC400719
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Calibration Date: 19-JUL-2010
Calibration Time: 16:18
Client Smp ID: IC400719
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	381018	6.88
27 Naphthalene-d8	1293412	646706	2586824	1340154	3.61
42 Acenaphthene-d10	785897	392948	1571794	839318	6.80
59 Phenanthrene-d10	1313990	656995	2627980	1371590	4.38
69 Chrysene-d12	1155293	577646	2310586	1264495	9.45
134 Di-n-octylphthala	1825297	912648	3650594	1902533	4.23
77 Perylene-d12	1146289	573144	2292578	1213809	5.89

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.70	8.20	9.20	8.69	-0.04
27 Naphthalene-d8	10.74	10.24	11.24	10.74	0.02
42 Acenaphthene-d10	13.63	13.13	14.13	13.63	0.02
59 Phenanthrene-d10	16.03	15.53	16.53	16.03	0.01
69 Chrysene-d12	20.38	19.88	20.88	20.38	0.01
134 Di-n-octylphthala	21.45	20.95	21.95	21.45	0.01
77 Perylene-d12	22.58	22.08	23.08	22.58	-0.02

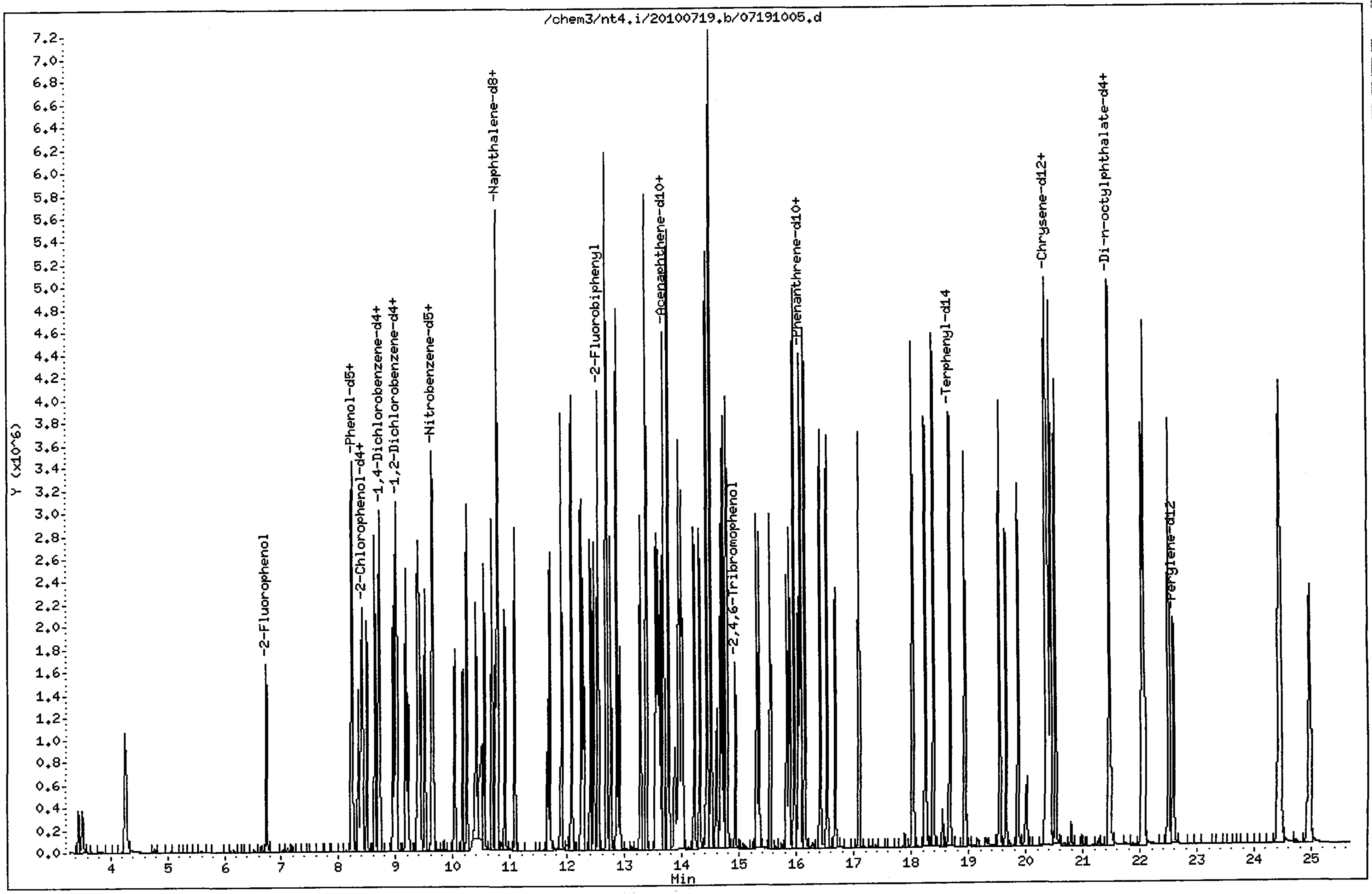
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20100719.b/07191005.d
Date : 19-JUL-2010 18:41
Client ID: IC400719
Sample Info: IC400719

Column phase: ZB-5msi

Instrument: nt4.i

Operator: JZ
Column diameter: 0.32



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100719.b/07191006.d
Lab Smp Id: IC600719 Client Smp ID: IC600719
Inj Date : 19-JUL-2010 19:14
Operator : JZ Inst ID: nt4.i
Smp Info : IC600719
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100719.b/SW846100719.m
Meth Date : 21-Jul-2010 18:37 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:14 Cal File: 07191006.d
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

07/21/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.742	6.737	(0.775)	1229938	60.0000	56.87
$	2 Phenol-d5	99	8.228	8.229	(0.946)	1203698	60.0000	56.64
	3 Phenol	94	8.251	8.252	(0.949)	1486801	60.0000	53.46
$	5 2-Chlorophenol-d4	132	8.398	8.393	(0.966)	1296594	60.0000	56.95
	4 Bis(2-Chloroethyl)ether	93	8.351	8.352	(0.960)	1136800	60.0000	55.21
	6 2-Chlorophenol	128	8.422	8.423	(0.968)	1481989	60.0000	56.33
	7 1,3-Dichlorobenzene	146	8.639	8.640	(0.993)	1637912	60.0000	54.87
*	8 1,4-Dichlorobenzene-d4	152	8.698	8.699	(1.000)	397320	20.0000	
	9 1,4-Dichlorobenzene	146	8.721	8.722	(1.003)	1656413	60.0000	54.89
$	10 1,2-Dichlorobenzene-d4	152	8.997	8.998	(1.034)	951535	60.0000	55.76
	12 1,2-Dichlorobenzene	146	9.021	9.022	(1.037)	1536342	60.0000	54.70
	11 Benzyl alcohol	108	8.968	8.969	(1.031)	863804	60.0000	54.97
	14 2,2'-oxybis(1-Chloropropane)	45	9.215	9.216	(1.059)	1018933	60.0000	52.28
	13 2-Methylphenol	108	9.179	9.181	(1.055)	1210815	60.0000	57.59
	17 Hexachloroethane	117	9.508	9.509	(1.093)	632803	60.0000	57.04
	16 N-Nitroso-di-n-propylamine	70	9.444	9.445	(1.086)	798791	60.0000	55.53
	15 4-Methylphenol	108	9.414	9.415	(1.082)	1252181	60.0000	57.40
$	18 Nitrobenzene-d5	82	9.626	9.627	(0.896)	1229087	60.0000	53.83
	19 Nitrobenzene	77	9.661	9.662	(0.899)	1188709	60.0000	52.39
	20 Isophorone	82	10.037	10.038	(0.934)	2011089	60.0000	53.69
	21 2-Nitrophenol	139	10.172	10.173	(0.946)	846073	60.0000	60.67
	22 2,4-Dimethylphenol	107	10.254	10.256	(0.954)	1366838	60.0000	54.30
	23 Bis(2-Chloroethoxy)methane	93	10.407	10.408	(0.968)	1395558	60.0000	53.29
	24 Benzoic acid	105	10.560	10.567	(0.982)	2377813	120.000	138.7(M)
	25 2,4-Dichlorophenol	162	10.548	10.549	(0.981)	1299788	60.0000	59.22
	26 1,2,4-Trichlorobenzene	180	10.683	10.684	(0.994)	1364625	60.0000	55.60
*	27 Naphthalene-d8	136	10.748	10.749	(1.000)	1461536	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	10.783	10.784	(1.003)	3406376	60.0000	47.80
	29 4-Chloroaniline	127	10.907	10.908	(1.015)	1513974	60.0000	53.84
	30 Hexachlorobutadiene	225	11.083	11.084	(1.031)	765030	60.0000	54.87
	31 4-Chloro-3-methylphenol	107	11.700	11.701	(1.089)	1220499	60.0000	60.84
	32 2-Methylnaphthalene	142	11.905	11.906	(1.108)	2515888	60.0000	52.50
	33 Hexachlorocyclopentadiene	237	12.281	12.282	(0.901)	871995	60.0000	65.89
	34 2,4,6-Trichlorophenol	196	12.410	12.411	(0.910)	964534	60.0000	61.35
	35 2,4,5-Trichlorophenol	196	12.469	12.470	(0.915)	1030226	60.0000	65.00
$	36 2-Fluorobiphenyl	172	12.540	12.541	(0.920)	2843491	60.0000	52.03
	37 2-Chloronaphthalene	162	12.698	12.699	(0.931)	2543337	60.0000	52.57
	38 2-Nitroaniline	65	12.921	12.923	(0.948)	595218	60.0000	65.41
	39 Dimethylphthalate	163	13.286	13.287	(0.975)	3065731	60.0000	54.05
	40 Acenaphthylene	152	13.380	13.381	(0.981)	3654484	60.0000	49.58
	41 2,6-Dinitrotoluene	165	13.380	13.387	(0.981)	752544	60.0000	60.10
*	42 Acenaphthene-d10	164	13.632	13.633	(1.000)	877821	20.0000	
	43 3-Nitroaniline	138	13.609	13.610	(0.998)	574337	60.0000	50.04
	44 Acenaphthene	153	13.691	13.686	(1.004)	2486799	60.0000	52.32
	45 2,4-Dinitrophenol	184	13.779	13.780	(1.011)	1050607	120.000	175.9
	46 Dibenzofuran	168	13.949	13.951	(1.023)	3316951	60.0000	52.24
	47 4-Nitrophenol	109	13.879	13.880	(1.018)	521388	60.0000	64.86
	48 2,4-Dinitrotoluene	165	14.020	14.021	(1.028)	1028405	60.0000	62.65
	50 Diethylphthalate	149	14.437	14.438	(1.059)	2995821	60.0000	50.71
	49 Fluorene	166	14.513	14.514	(1.065)	2766792	60.0000	50.10
	51 4-Chlorophenyl-phenylether	204	14.519	14.514	(1.065)	1386076	60.0000	52.04
	52 4-Nitroaniline	138	14.625	14.626	(1.073)	708100	60.0000	58.91
	53 4,6-Dinitro-2-methylphenol	198	14.695	14.697	(0.916)	1367613	120.000	141.3
	54 N-Nitrosodiphenylamine	169	14.731	14.732	(0.919)	2292809	60.0000	55.69
$	55 2,4,6-Tribromophenol	330	14.936	14.937	(1.096)	382818	60.0000	61.84
	56 4-Bromophenyl-phenylether	248	15.306	15.308	(0.955)	839139	60.0000	56.62
	57 Hexachlorobenzene	284	15.547	15.548	(0.970)	830754	60.0000	54.39
	58 Pentachlorophenol	266	15.841	15.842	(0.988)	650217	60.0000	63.72
*	59 Phenanthrene-d10	188	16.035	16.036	(1.000)	1448224	20.0000	
	60 Phenanthrene	178	16.076	16.077	(1.003)	3878293	60.0000	50.62
	61 Anthracene	178	16.152	16.153	(1.007)	3944693	60.0000	50.26
	62 Carbazole	167	16.423	16.424	(1.024)	3719250	60.0000	52.47
	63 Di-n-butylphthalate	149	17.092	17.093	(1.066)	4433661	60.0000	48.48
	64 Fluoranthene	202	18.026	18.027	(1.124)	4065333	60.0000	51.15
	65 Pyrene	202	18.396	18.397	(0.902)	4220721	60.0000	50.47
$	66 Terphenyl-d14	244	18.672	18.674	(0.916)	2664333	60.0000	52.41
	67 Butylbenzylphthalate	149	19.542	19.543	(0.958)	2351154	60.0000	56.16
	68 Benzo(a)anthracene	228	20.364	20.365	(0.999)	3947800	60.0000	51.13
*	69 Chrysene-d12	240	20.388	20.389	(1.000)	1294779	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.347	20.348	(0.998)	1334380	60.0000	53.48
	71 Chrysene	228	20.435	20.436	(1.002)	3793653	60.0000	50.15
	72 bis(2-Ethylhexyl)phthalate	149	20.517	20.518	(0.956)	3142762	60.0000	56.90
*	134 Di-n-octylphthalate-d4	153	21.457	21.458	(1.000)	1930038	20.0000	
	73 Di-n-octylphthalate	149	21.469	21.470	(1.001)	4795925	60.0000	48.58

	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	22.038	22.040	(0.976)	4080347	60.0000	51.13
75	Benzo(k)fluoranthene	252	22.074	22.075	(0.978)	4266538	60.0000	51.21
187	Total Benzofluoranthenes	252	22.074	22.075	(0.978)	7852544	120.000	102.2
76	Benzo(a)pyrene	252	22.508	22.510	(0.997)	3866473	60.0000	54.28
* 77	Perylene-d12	264	22.579	22.580	(1.000)	1277873	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	24.453	24.454	(1.083)	4513038	60.0000	59.97
79	Dibenzo(a,h)anthracene	278	24.471	24.477	(1.084)	3659183	60.0000	60.61
80	Benzo(g,h,i)perylene	276	24.987	24.989	(1.107)	3886563	60.0000	60.45
90	N-Nitrosodimethylamine	74	4.298	4.281	(0.494)	642614	60.0000	55.47
103	Pyridine	79	4.257	4.240	(0.489)	1166653	60.0000	58.82
91	Aniline	93	8.251	8.252	(0.949)	1522936	60.0000	52.43
105	1-methylnaphthalene	142	12.081	12.082	(1.124)	2468087	60.0000	52.66
93	Benzidine	184	18.255	18.251	(0.895)	1209446	60.0000	49.52
111	Azobenzene (1,2-DP-Hydrazine)	77	14.778	14.779	(1.084)	2261358	60.0000	51.23
143	1,4-Dioxane	88	3.522	3.494	(0.405)	432668	60.0000	
$ 137	d8-1,4-Dioxane	96	3.452	3.424	(0.397)	452808	60.0000	
151	1,2,4,5-Tetrachlorobenzene	216	12.246	12.247	(0.898)	1293861	60.0000	55.65
120	2,3,4,6-Tetrachlorophenol	232	14.220	14.221	(1.043)	822319	60.0000	62.42
144	alpha-Terpineol	59	10.789	10.790	(1.004)	632002	60.0000	50.64
98	Retene	219	18.931	18.932	(0.929)	1565454	60.0000	56.77
133	Butylatedhydroxytoluene	205	13.773	13.774	(1.010)	2053796	60.0000	47.73
115	Tributyl Phosphate	99	14.801	14.802	(0.923)	2926776	60.0000	52.25
116	Dibutyl Phenyl Phosphate	175	16.534	16.535	(1.031)	2564420	60.0000	56.23
117	Butyl Diphenyl Phosphate	94	18.244	18.245	(0.895)	765596	60.0000	57.75
118	Triphenyl Phosphate	326	19.865	19.866	(0.974)	759375	60.0000	57.84
123	Acetophenone	105	9.391	9.392	(0.874)	1676761	60.0000	53.44
179	n-Decane	57	8.504	8.505	(0.978)	860809	60.0000	53.30
180	n-Octadecane	57	15.882	15.883	(0.990)	1023596	60.0000	50.45
168	Pentachlorobenzene	250	13.991	13.992	(1.026)	1018953	60.0000	55.45
113	Diphenyl Oxide	170	12.869	12.870	(0.944)	2507406	60.0000	52.24
112	Biphenyl	154	12.681	12.682	(0.930)	2788162	60.0000	50.23
110	Tetrachloroguaiacol	247	15.970	15.971	(0.996)	984961	120.000	116.5
109	3,4,5-Trichloroguaiacol	213	14.314	14.315	(0.893)	533736	60.0000	61.63
181	3,4,6-Trichloroguaiacol	211	14.437	14.444	(0.900)	612812	60.0000	60.00
108	4,5,6-Trichloroguaiacol	213	15.353	15.349	(0.958)	559497	60.0000	62.26
184	3,4-Dichloroguaiacol	192	12.763	12.764	(0.936)	563971	60.0000	62.83
107	4,5-Dichloroguaiacol	192	13.544	13.545	(0.994)	821802	60.0000	65.49
182	4,6-Dichloroguaiacol	192	13.579	13.580	(0.996)	664585	60.0000	59.01
185	4-Chloroguaiacol	115	11.658	11.660	(1.340)	379286	30.0000	31.99
106	Guaiacol	124	9.644	9.645	(1.109)	1198240	60.0000	56.49

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: 07191006.d
Lab Smp Id: IC600719
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Calibration Date: 19-JUL-2010
Calibration Time: 16:18
Client Smp ID: IC600719
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	397320	11.46
27 Naphthalene-d8	1293412	646706	2586824	1461536	13.00
42 Acenaphthene-d10	785897	392948	1571794	877821	11.70
59 Phenanthrene-d10	1313990	656995	2627980	1448224	10.22
69 Chrysene-d12	1155293	577646	2310586	1294779	12.07
134 Di-n-octylphthala	1825297	912648	3650594	1930038	5.74
77 Perylene-d12	1146289	573144	2292578	1277873	11.48

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.70	8.20	9.20	8.70	0.00
27 Naphthalene-d8	10.74	10.24	11.24	10.75	0.05
42 Acenaphthene-d10	13.63	13.13	14.13	13.63	0.04
59 Phenanthrene-d10	16.03	15.53	16.53	16.03	0.04
69 Chrysene-d12	20.38	19.88	20.88	20.39	0.03
134 Di-n-octylphthala	21.45	20.95	21.95	21.46	0.03
77 Perylene-d12	22.58	22.08	23.08	22.58	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.

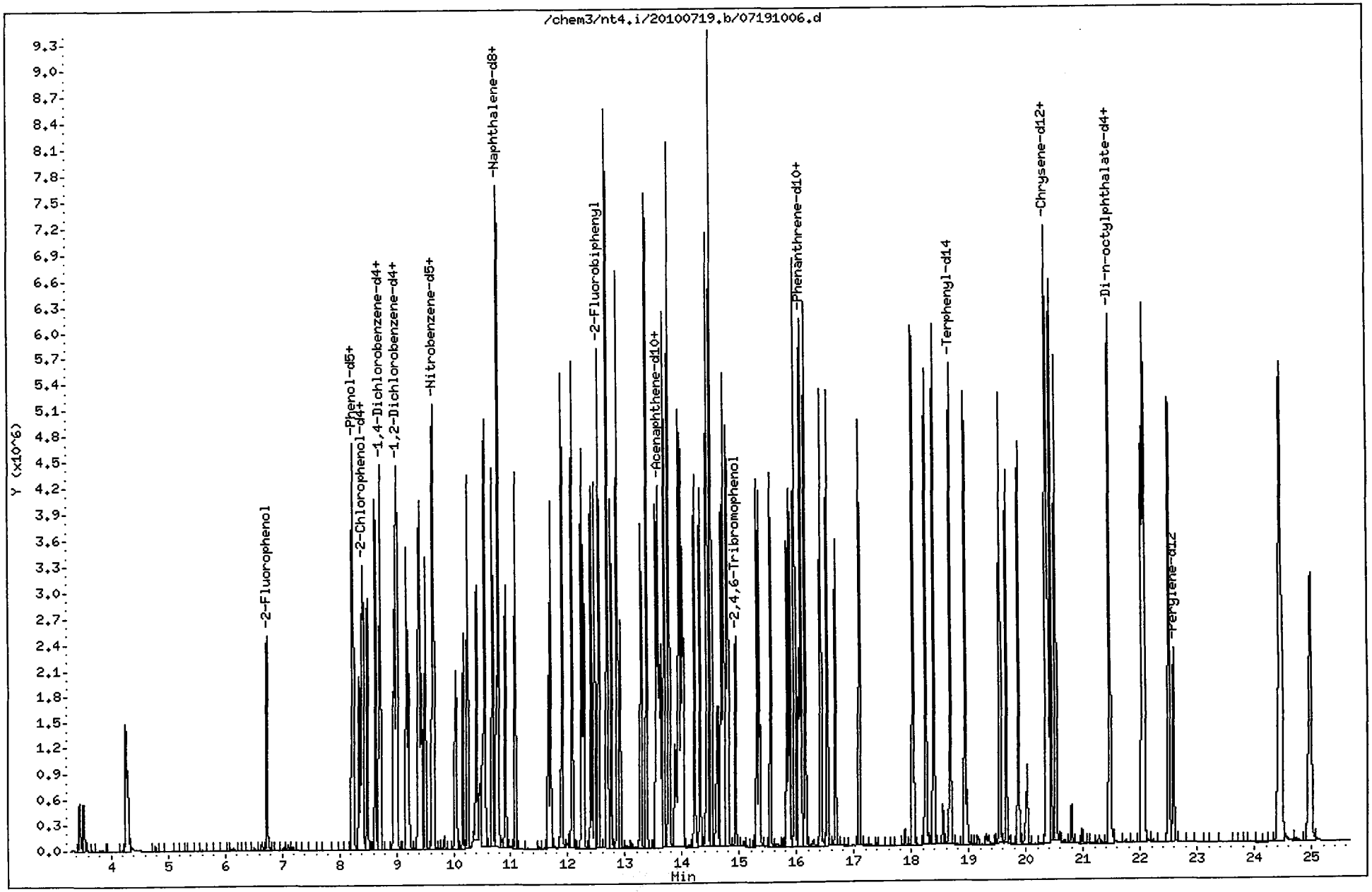
Data File: /chem3/nt4.i/20100719.b/07191006.d
Date : 19-JUL-2010 19:14
Client ID: IC600719
Sample Info: IC600719

Instrument: nt4.i

Operator: JZ
Column diameter: 0.32

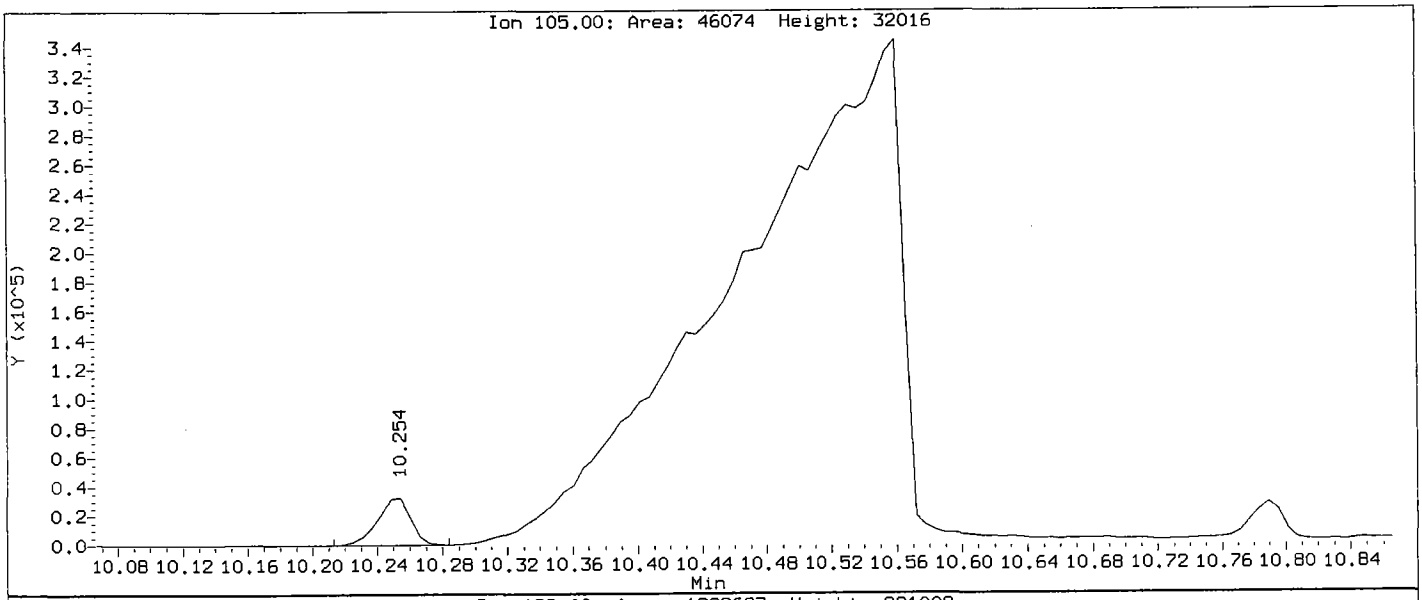
Column phase: ZB-5msi

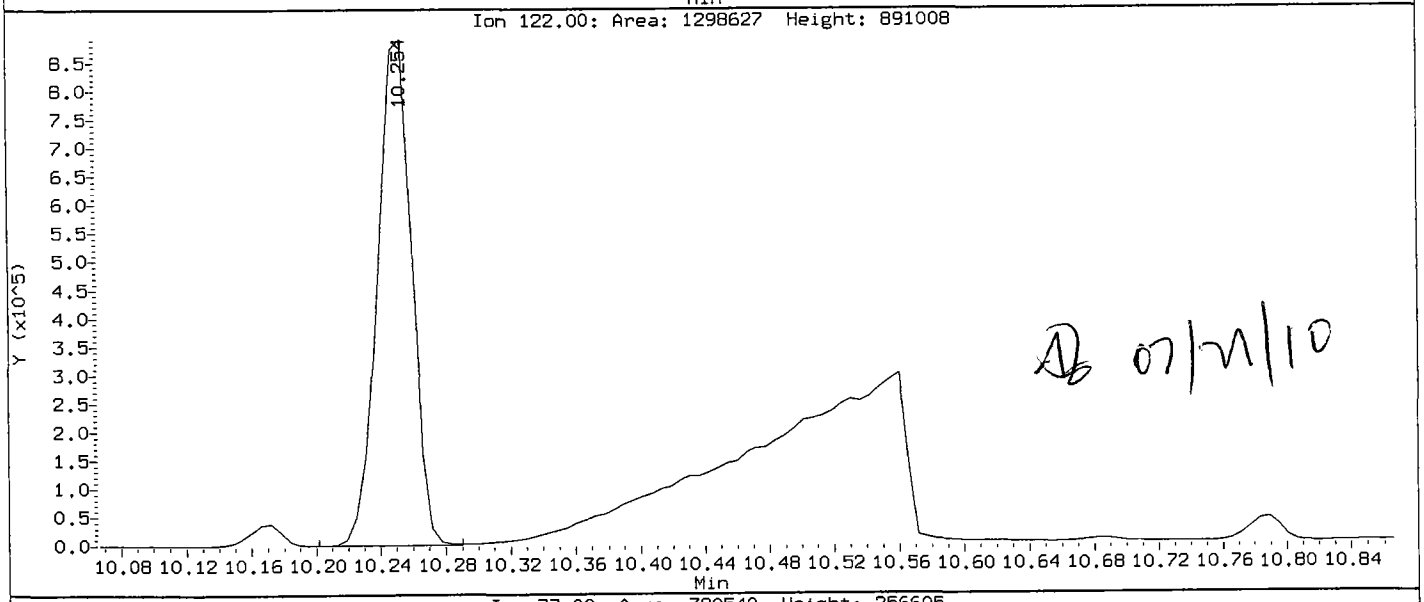
RG79:0635



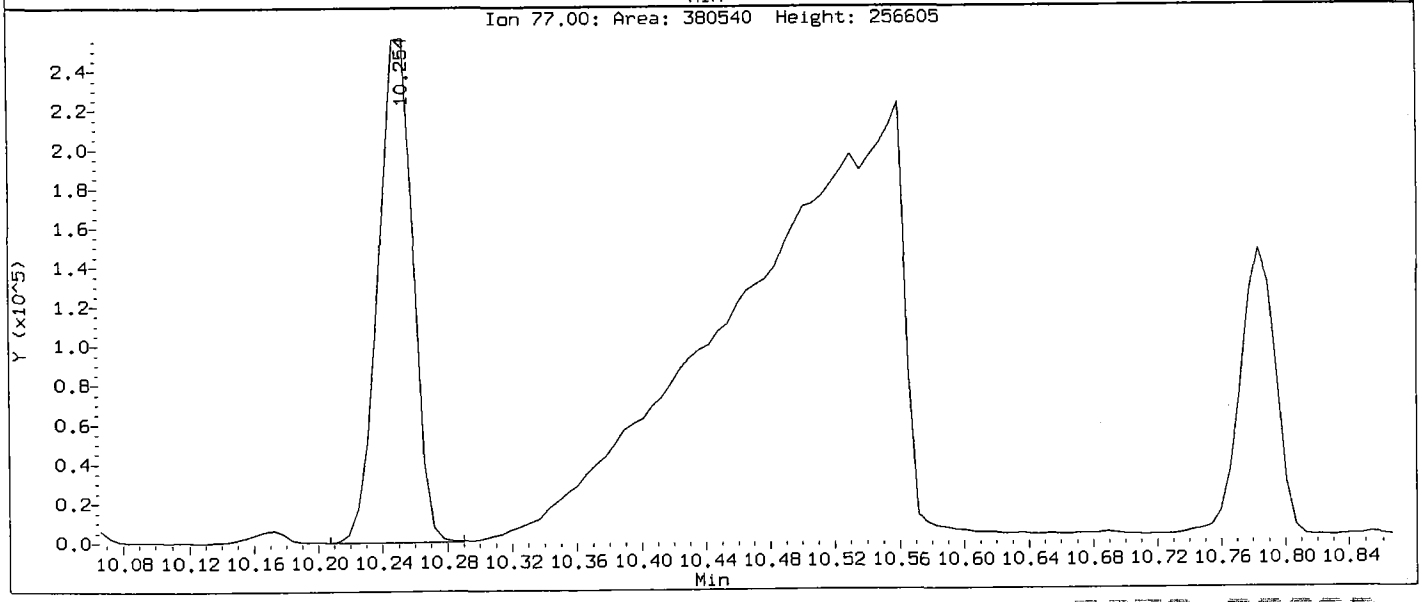
Data File: /chem3/nt4.i/20100719.b/07191006.d
Injection Date: 19-JUL-2010 19:14
Instrument: nt4.i
Client Sample ID: IC600719

Compound: Benzoic acid
CAS Number: 65-85-0



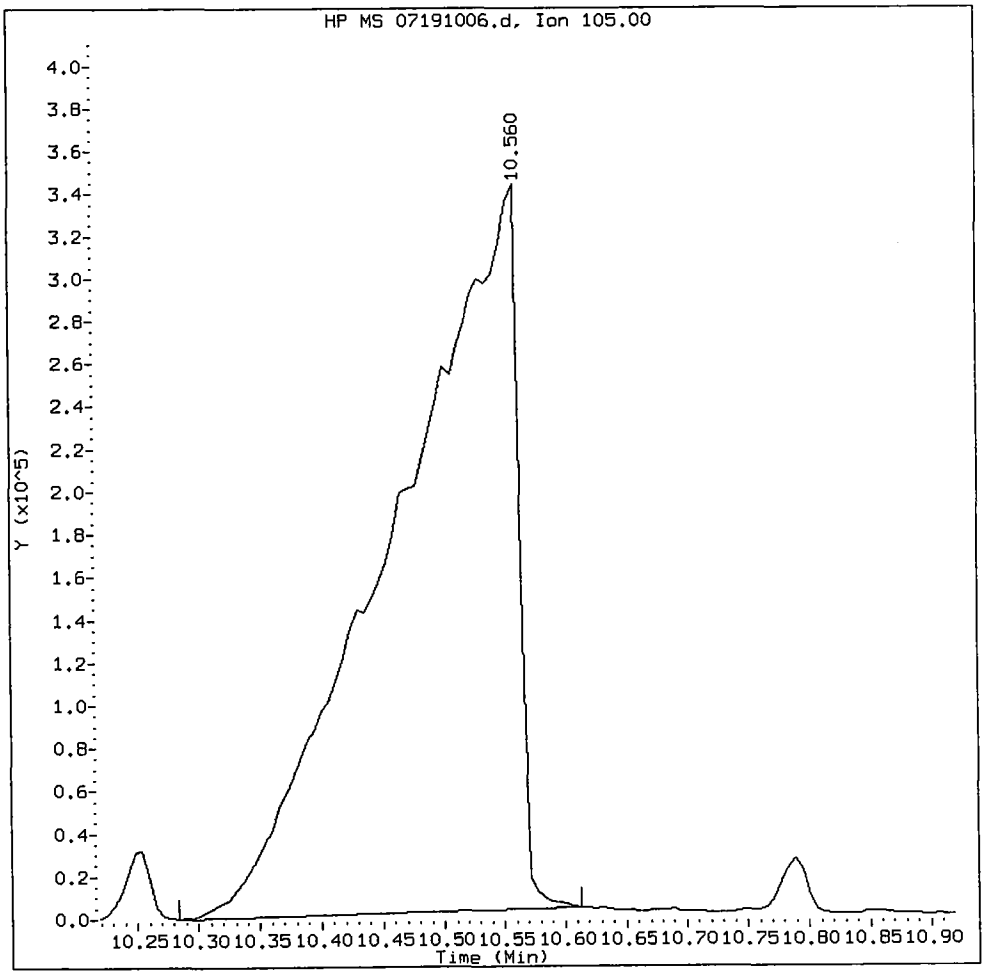


AB 07/21/10



IC600719, /chem3/nt4.i/20100719.b/07191006.d

Benzoic acid Amount: 138.72 Area: 2377813



MANUAL INTEGRATION for Benzoic acid

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation
5. Other RT correction

Analyst: [signature] Date: 07/21/10

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100719.b/07191007.d
Lab Smp Id: IC800719 Client Smp ID: IC800719
Inj Date : 19-JUL-2010 19:48
Operator : JZ Inst ID: nt4.i
Smp Info : IC800719
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100719.b/SW846100719.m
Meth Date : 21-Jul-2010 18:37 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 7 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

07/21/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.737	6.737	(0.774)	1268957	80.0000	77.83
$	2 Phenol-d5	99	8.229	8.229	(0.946)	1256362	80.0000	78.34
	3 Phenol	94	8.252	8.252	(0.949)	1513050	80.0000	72.91
$	5 2-Chlorophenol-d4	132	8.393	8.393	(0.965)	1360372	80.0000	79.05
	4 Bis(2-Chloroethyl)ether	93	8.352	8.352	(0.960)	1181994	80.0000	76.37
	6 2-Chlorophenol	128	8.423	8.423	(0.968)	1496302	80.0000	75.76
	7 1,3-Dichlorobenzene	146	8.640	8.640	(0.993)	1715827	80.0000	76.46
*	8 1,4-Dichlorobenzene-d4	152	8.699	8.699	(1.000)	300879	20.0000	
	9 1,4-Dichlorobenzene	146	8.722	8.722	(1.003)	1723689	80.0000	76.05
$	10 1,2-Dichlorobenzene-d4	152	8.998	8.998	(1.034)	985077	80.0000	76.74
	12 1,2-Dichlorobenzene	146	9.022	9.022	(1.037)	1611941	80.0000	76.37
	11 Benzyl alcohol	108	8.969	8.969	(1.031)	885576	80.0000	75.30
	14 2,2'-oxybis(1-Chloropropane)	45	9.216	9.216	(1.059)	1062470	80.0000	73.03
	13 2-Methylphenol	108	9.181	9.181	(1.055)	1236207	80.0000	77.98
	17 Hexachloroethane	117	9.509	9.509	(1.093)	668079	80.0000	79.59
	16 N-Nitroso-di-n-propylamine	70	9.445	9.445	(1.086)	847679	80.0000	78.12
	15 4-Methylphenol	108	9.415	9.415	(1.082)	1285439	80.0000	78.12
$	18 Nitrobenzene-d5	82	9.627	9.627	(0.896)	1313315	80.0000	75.51
	19 Nitrobenzene	77	9.662	9.662	(0.899)	1268880	80.0000	73.69
	20 Isophorone	82	10.038	10.038	(0.934)	2190082	80.0000	76.58
	21 2-Nitrophenol	139	10.173	10.173	(0.946)	878305	80.0000	81.64
	22 2,4-Dimethylphenol	107	10.256	10.256	(0.954)	1436576	80.0000	75.00
	23 Bis(2-Chloroethoxy)methane	93	10.408	10.408	(0.968)	1496886	80.0000	75.10
	24 Benzoic acid	105	10.567	10.567	(0.983)	2519498	160.000	185.2(M)
	25 2,4-Dichlorophenol	162	10.549	10.549	(0.981)	1322567	80.0000	78.60
	26 1,2,4-Trichlorobenzene	180	10.684	10.684	(0.994)	1436894	80.0000	76.68
*	27 Naphthalene-d8	136	10.749	10.749	(1.000)	1123708	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	10.784	10.784	(1.003)	3561240	80.0000	66.79
	29 4-Chloroaniline	127	10.908	10.908	(1.015)	1528754	80.0000	71.91
	30 Hexachlorobutadiene	225	11.084	11.084	(1.031)	808142	80.0000	76.01
	31 4-Chloro-3-methylphenol	107	11.701	11.701	(1.089)	1238322	80.0000	80.25
	32 2-Methylnaphthalene	142	11.906	11.906	(1.108)	2607146	80.0000	71.95
	33 Hexachlorocyclopentadiene	237	12.282	12.282	(0.901)	915584	80.0000	89.17
	34 2,4,6-Trichlorophenol	196	12.411	12.411	(0.910)	987062	80.0000	82.41
	35 2,4,5-Trichlorophenol	196	12.470	12.470	(0.915)	1062277	80.0000	87.11
$	36 2-Fluorobiphenyl	172	12.541	12.541	(0.920)	2942574	80.0000	72.19
	37 2-Chloronaphthalene	162	12.699	12.699	(0.931)	2663679	80.0000	73.60
	38 2-Nitroaniline	65	12.923	12.923	(0.948)	601628	80.0000	86.11
	39 Dimethylphthalate	163	13.287	13.287	(0.975)	3167616	80.0000	74.52
	40 Acenaphthylene	152	13.381	13.381	(0.981)	3749859	80.0000	68.69
	41 2,6-Dinitrotoluene	165	13.387	13.387	(0.982)	800837	80.0000	83.72
*	42 Acenaphthene-d10	164	13.633	13.633	(1.000)	665405	20.0000	
	43 3-Nitroaniline	138	13.610	13.610	(0.998)	547360	80.0000	64.90
	44 Acenaphthene	153	13.686	13.686	(1.004)	2609597	80.0000	73.42
	45 2,4-Dinitrophenol	184	13.780	13.780	(1.011)	1116227	160.000	226.1
	46 Dibenzofuran	168	13.951	13.951	(1.023)	3428345	80.0000	72.37
	47 4-Nitrophenol	109	13.880	13.880	(1.018)	524194	80.0000	84.96(M)
	48 2,4-Dinitrotoluene	165	14.021	14.021	(1.028)	1090733	80.0000	86.48
	50 Diethylphthalate	149	14.438	14.438	(1.059)	3129575	80.0000	71.17
	49 Fluorene	166	14.514	14.514	(1.065)	2859491	80.0000	69.76
	51 4-Chlorophenyl-phenylether	204	14.514	14.514	(1.065)	1441324	80.0000	72.50
	52 4-Nitroaniline	138	14.626	14.626	(1.073)	743720	80.0000	81.39
	53 4,6-Dinitro-2-methylphenol	198	14.697	14.697	(0.916)	1436565	160.000	185.2
	54 N-Nitrosodiphenylamine	169	14.732	14.732	(0.919)	2418926	80.0000	76.28
$	55 2,4,6-Tribromophenol	330	14.937	14.937	(1.096)	412250	80.0000	86.64
	56 4-Bromophenyl-phenylether	248	15.308	15.308	(0.955)	913731	80.0000	79.51
	57 Hexachlorobenzene	284	15.548	15.548	(0.970)	900972	80.0000	76.54
	58 Pentachlorophenol	266	15.842	15.842	(0.988)	681354	80.0000	84.95
*	59 Phenanthrene-d10	188	16.036	16.036	(1.000)	1124245	20.0000	
	60 Phenanthrene	178	16.077	16.077	(1.003)	4063948	80.0000	69.78
	61 Anthracene	178	16.153	16.153	(1.007)	4117176	80.0000	69.11
	62 Carbazole	167	16.424	16.424	(1.024)	3902737	80.0000	72.09
	63 Di-n-butylphthalate	149	17.093	17.093	(1.066)	4579430	80.0000	66.34
	64 Fluoranthene	202	18.027	18.027	(1.124)	4175102	80.0000	69.19
	65 Pyrene	202	18.397	18.397	(0.902)	4362118	80.0000	71.04
$	66 Terphenyl-d14	244	18.674	18.674	(0.916)	2749894	80.0000	73.34
	67 Butylbenzylphthalate	149	19.543	19.543	(0.958)	2421300	80.0000	77.70
	68 Benzo(a)anthracene	228	20.365	20.365	(0.999)	4068026	80.0000	71.67
*	69 Chrysene-d12	240	20.389	20.389	(1.000)	968321	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.348	20.348	(0.998)	1323573	80.0000	72.10
	71 Chrysene	228	20.436	20.436	(1.002)	3954441	80.0000	71.18
	72 bis(2-Ethylhexyl)phthalate	149	20.518	20.518	(0.956)	3227271	80.0000	76.14
*	134 Di-n-octylphthalate-d4	153	21.458	21.458	(1.000)	1492891	20.0000	
	73 Di-n-octylphthalate	149	21.470	21.470	(1.001)	4907690	80.0000	66.12

	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	22.040	22.040	(0.976)	4767186	80.0000	78.45
75	Benzo(k)fluoranthene	252	22.075	22.075	(0.978)	3917576	80.0000	63.64(H)
187	Total Benzofluoranthenes	252	22.075	22.075	(0.978)	8152817	160.000	141.5
76	Benzo(a)pyrene	252	22.510	22.510	(0.997)	4064073	80.0000	75.39
* 77	Perylene-d12	264	22.580	22.580	(1.000)	976271	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	24.454	24.454	(1.083)	4819802	80.0000	83.27
79	Dibenzo(a,h)anthracene	278	24.477	24.477	(1.084)	3918538	80.0000	84.21
80	Benzo(g,h,i)perylene	276	24.989	24.989	(1.107)	4132422	80.0000	83.52
90	N-Nitrosodimethylamine	74	4.281	4.281	(0.492)	697583	80.0000	79.59
103	Pyridine	79	4.240	4.240	(0.487)	1255622	80.0000	83.07
91	Aniline	93	8.252	8.252	(0.949)	1571926	80.0000	72.57
105	1-methylnaphthalene	142	12.082	12.082	(1.124)	2580932	80.0000	72.71
93	Benzidine	184	18.251	18.251	(0.895)	1168136	80.0000	63.96
111	Azobenzene (1,2-DP-Hydrazine)	77	14.779	14.779	(1.084)	2355672	80.0000	71.63
143	1,4-Dioxane	88	3.494	3.494	(0.402)	447525	80.0000	
$ 137	d8-1,4-Dioxane	96	3.424	3.424	(0.394)	475461	80.0000	
151	1,2,4,5-Tetrachlorobenzene	216	12.247	12.247	(0.898)	1339605	80.0000	76.55
120	2,3,4,6-Tetrachlorophenol	232	14.221	14.221	(1.043)	860255	80.0000	85.21
144	alpha-Terpineol	59	10.790	10.790	(1.004)	657935	80.0000	70.00
98	Retene	219	18.932	18.932	(0.929)	1623969	80.0000	78.92
133	Butylatedhydroxytoluene	205	13.774	13.774	(1.010)	2093075	80.0000	66.04
115	Tributyl Phosphate	99	14.802	14.802	(0.923)	3019559	80.0000	70.77
116	Dibutyl Phenyl Phosphate	175	16.535	16.535	(1.031)	2635204	80.0000	75.18
117	Butyl Diphenyl Phosphate	94	18.245	18.245	(0.895)	786388	80.0000	79.41
118	Triphenyl Phosphate	326	19.866	19.866	(0.974)	782394	80.0000	79.73
123	Acetophenone	105	9.392	9.392	(0.874)	1783025	80.0000	74.73
179	n-Decane	57	8.505	8.505	(0.978)	874156	80.0000	72.58
180	n-Octadecane	57	15.883	15.883	(0.990)	1091994	80.0000	70.68
168	Pentachlorobenzene	250	13.992	13.992	(1.026)	1076925	80.0000	77.68
113	Diphenyl Oxide	170	12.870	12.870	(0.944)	2584282	80.0000	72.18
112	Biphenyl	154	12.682	12.682	(0.930)	2852174	80.0000	69.29
110	Tetrachloroguaiacol	247	15.971	15.971	(0.996)	1042306	160.000	158.9
109	3,4,5-Trichloroguaiacol	213	14.315	14.315	(0.893)	548942	80.0000	81.41
181	3,4,6-Trichloroguaiacol	211	14.444	14.444	(0.901)	634089	80.0000	79.98
108	4,5,6-Trichloroguaiacol	213	15.349	15.349	(0.957)	593948	80.0000	84.36
184	3,4-Dichloroguaiacol	192	12.764	12.764	(0.936)	591226	80.0000	85.84
107	4,5-Dichloroguaiacol	192	13.545	13.545	(0.994)	858522	80.0000	88.63
182	4,6-Dichloroguaiacol	192	13.580	13.580	(0.996)	689458	80.0000	80.65
185	4-Chloroguaiacol	115	11.660	11.660	(1.340)	395259	40.0000	43.40
106	Guaiacol	124	9.645	9.645	(1.109)	1270875	80.0000	79.24

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: 07191007.d
Lab Smp Id: IC800719
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Calibration Date: 19-JUL-2010
Calibration Time: 16:18
Client Smp ID: IC800719
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	300879	-15.60
27 Naphthalene-d8	1293412	646706	2586824	1123708	-13.12
42 Acenaphthene-d10	785897	392948	1571794	665405	-15.33
59 Phenanthrene-d10	1313990	656995	2627980	1124245	-14.44
69 Chrysene-d12	1155293	577646	2310586	968321	-16.18
134 Di-n-octylphthala	1825297	912648	3650594	1492891	-18.21
77 Perylene-d12	1146289	573144	2292578	976271	-14.83

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.70	8.20	9.20	8.70	0.01
27 Naphthalene-d8	10.74	10.24	11.24	10.75	0.06
42 Acenaphthene-d10	13.63	13.13	14.13	13.63	0.05
59 Phenanthrene-d10	16.03	15.53	16.53	16.04	0.04
69 Chrysene-d12	20.38	19.88	20.88	20.39	0.03
134 Di-n-octylphthala	21.45	20.95	21.95	21.46	0.03
77 Perylene-d12	22.58	22.08	23.08	22.58	0.00

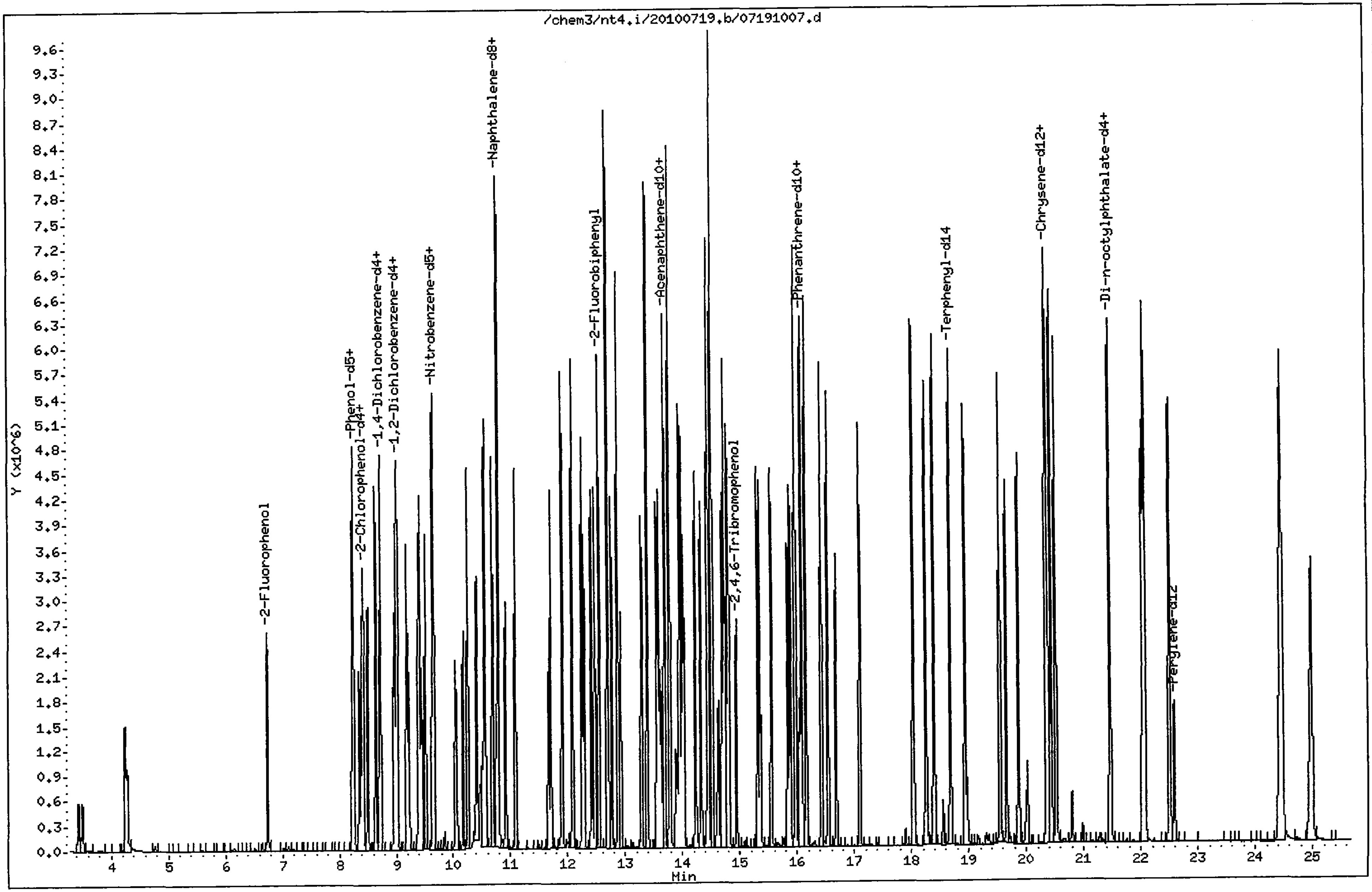
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20100719.b/07191007.d
Date : 19-JUL-2010 19:48
Client ID: IC800719
Sample Info: IC800719

Column phase: ZB-5msi

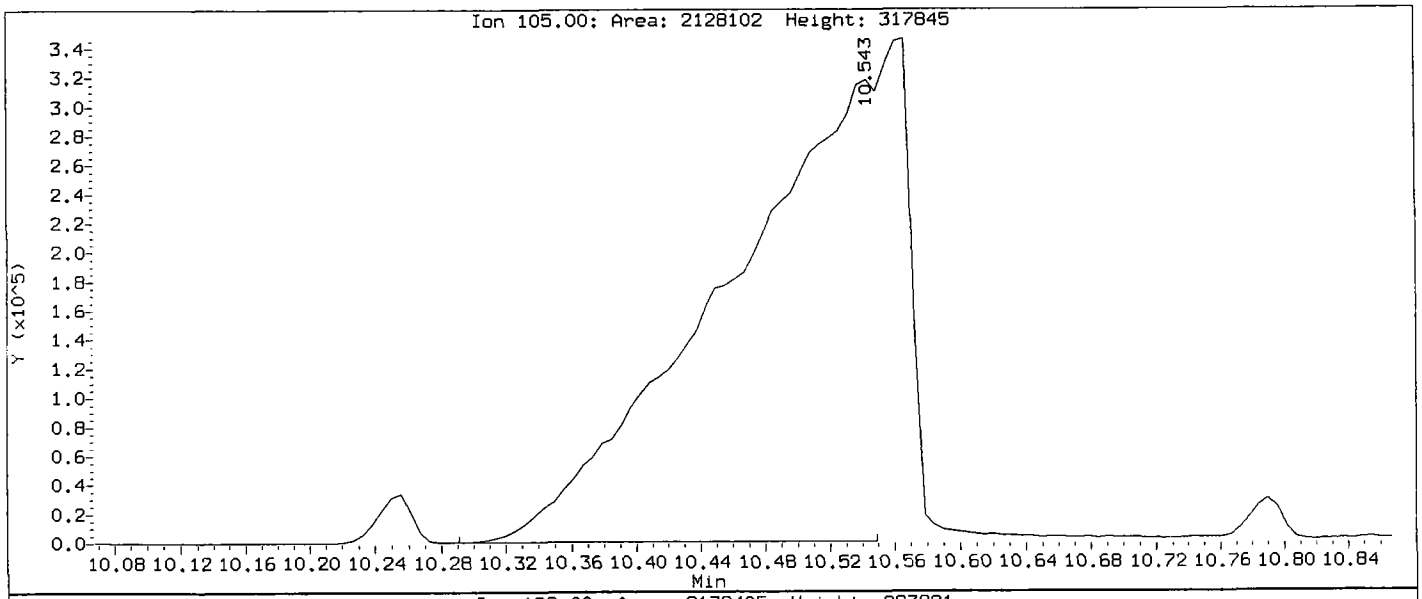
Instrument: nt4.i

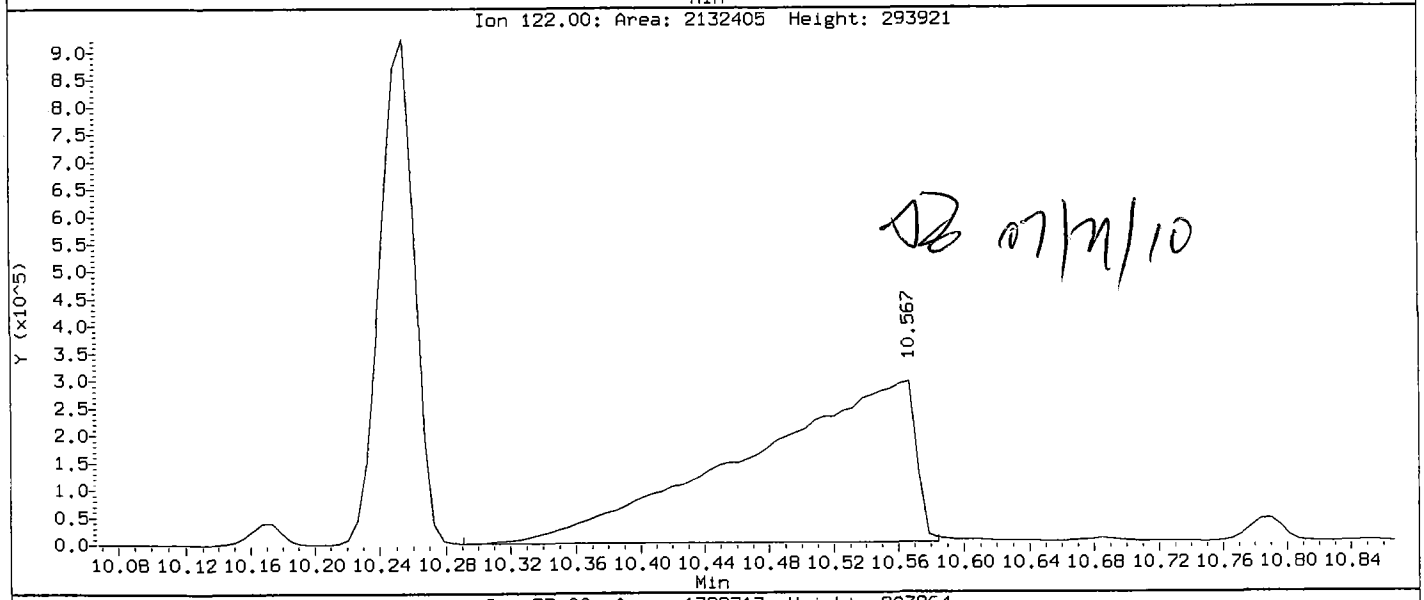
Operator: JZ
Column diameter: 0.32



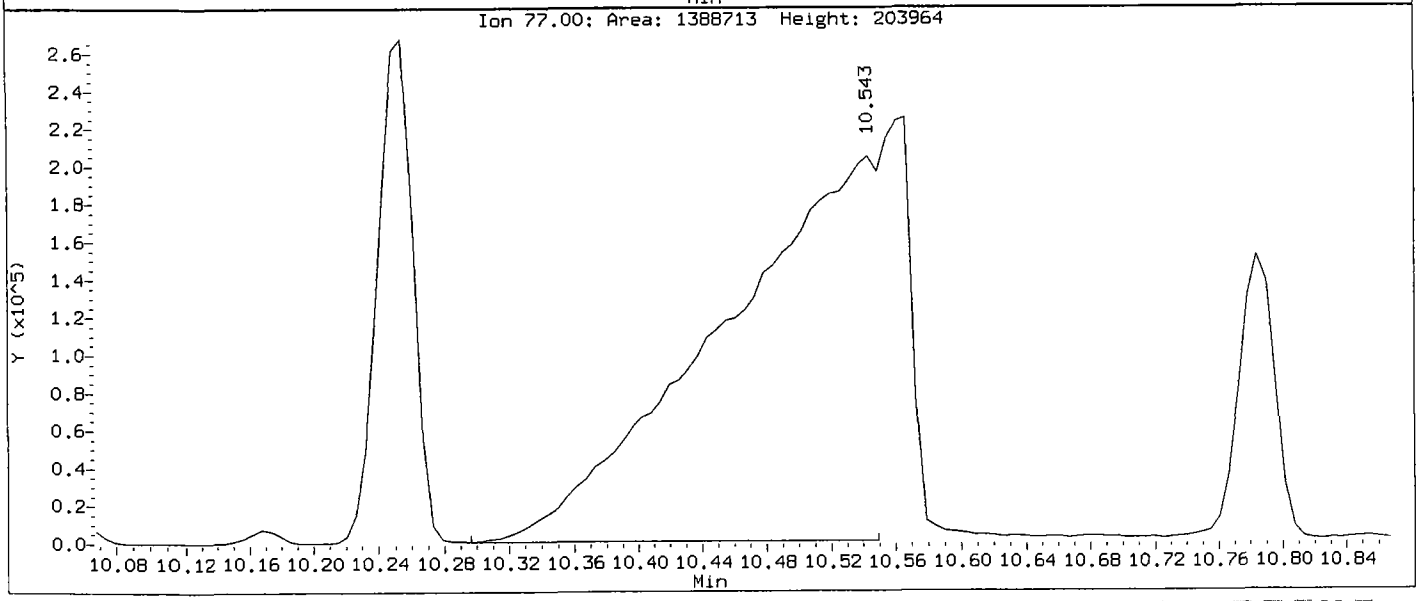
Data File: /chem3/nt4.i/20100719.b/07191007.d
Injection Date: 19-JUL-2010 19:48
Instrument: nt4.i
Client Sample ID: IC800719

Compound: Benzoic acid
CAS Number: 65-85-0



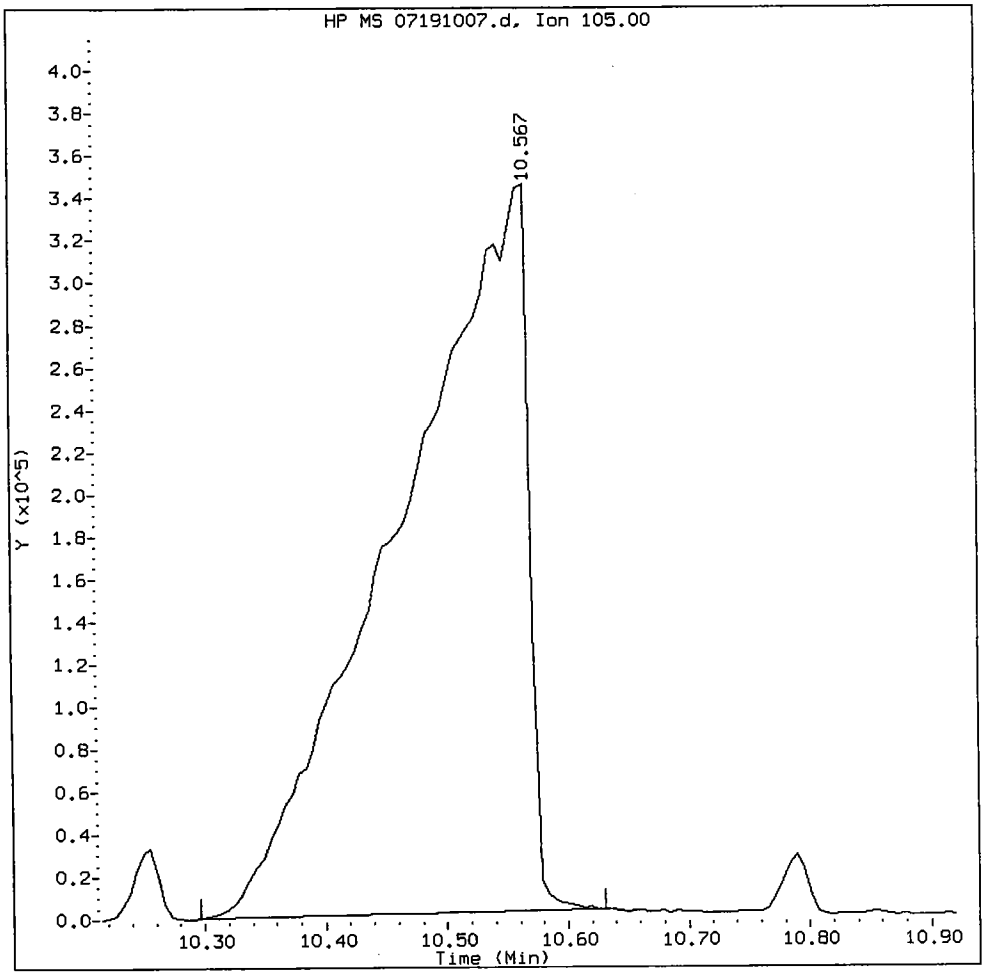


DB 07/21/10



IC800719, /chem3/nt4.i/20100719.b/07191007.d

Benzoic acid Amount: 185.17 Area: 2519498



MANUAL INTEGRATION for Benzoic acid

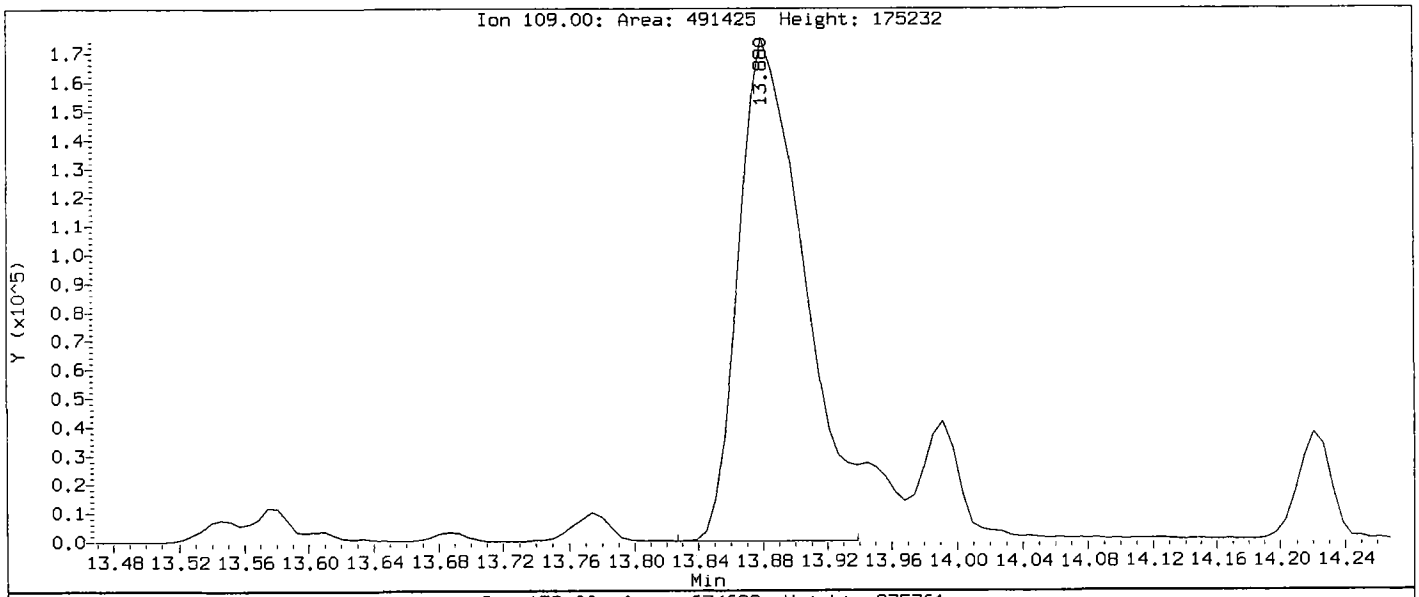
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

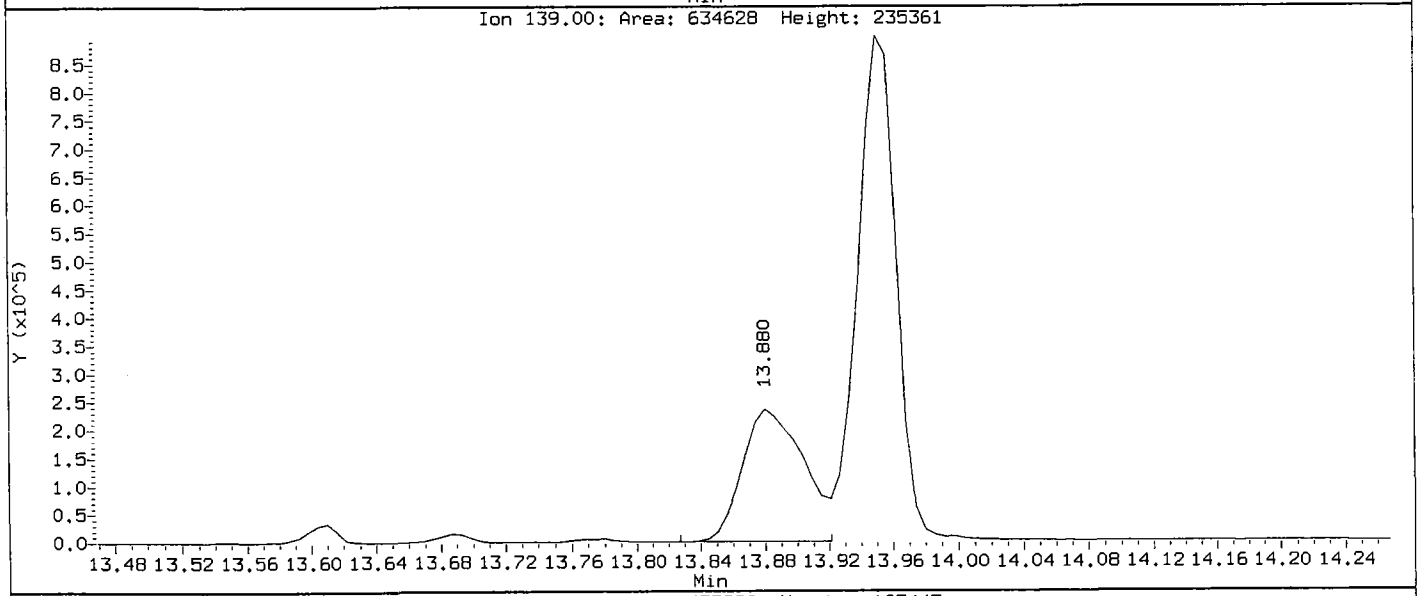
5. Other _____

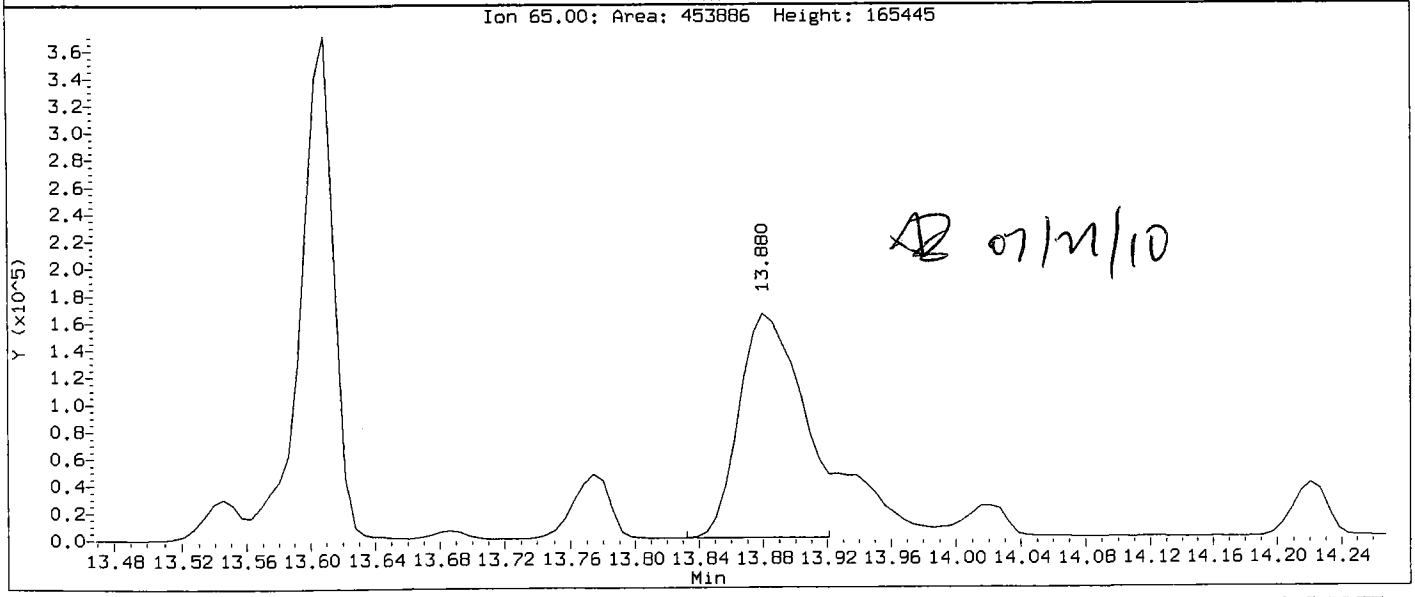
Analyst: AJ Date: 07/21/10

Data File: /chem3/nt4.i/20100719.b/07191007.d
Injection Date: 19-JUL-2010 19:48
Instrument: nt4.i
Client Sample ID: IC800719

Compound: 4-Nitrophenol
CAS Number: 100-02-7





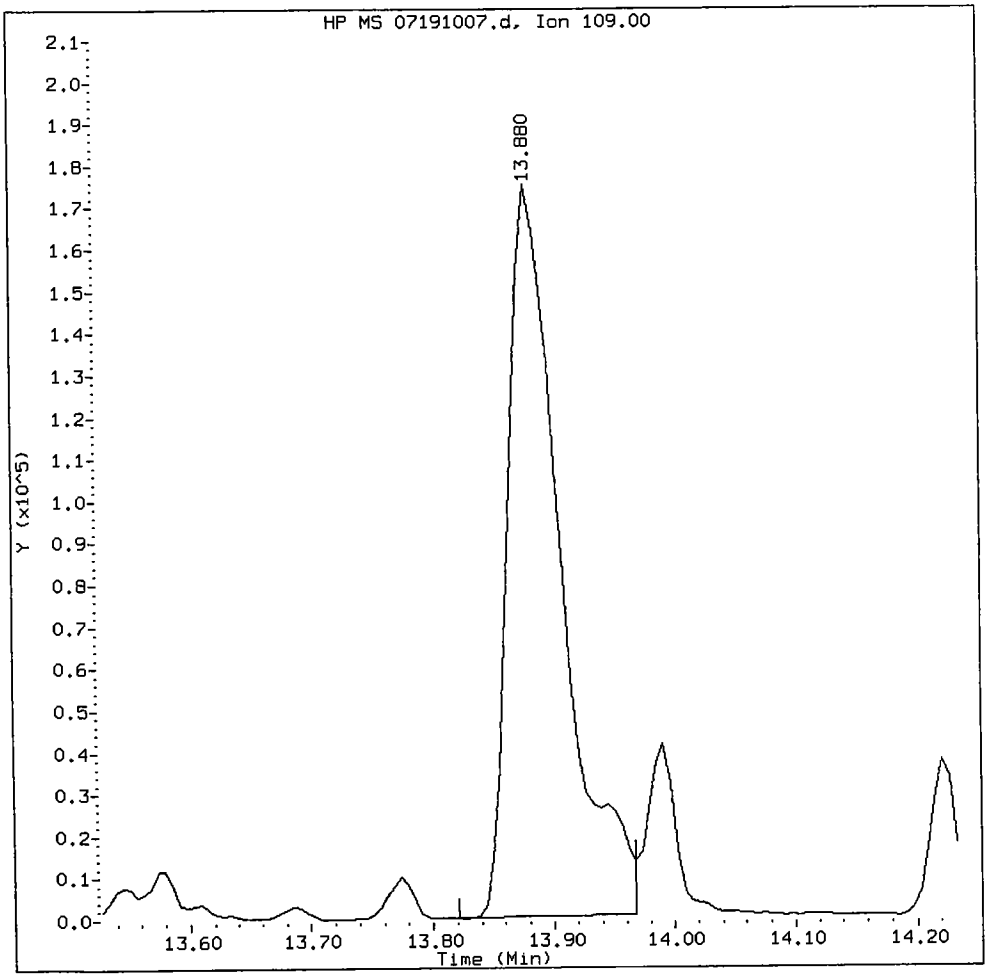


AB 07/21/10

RG79 : 00645

IC800719, /chem3/nt4.i/20100719.b/07191007.d

4-Nitrophenol Amount: 84.96 Area: 524194



MANUAL INTEGRATION for 4-Nitrophenol

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 07/21/10

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100719.b/07191008.d
Lab Smp Id: ICV0719 Client Smp ID: ICV0719
Inj Date : 19-JUL-2010 20:21
Operator : JZ Inst ID: nt4.i
Smp Info : ICV0719
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100719.b/SW846100719.m
Meth Date : 21-Jul-2010 18:42 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 3.50

AB 07/21/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.728	6.737	(0.774)	396455	25.2478	25.25(R)
$	2 Phenol-d5	99	8.214	8.229	(0.945)	401900	26.0189	26.02(R)
	3 Phenol	94	8.232	8.252	(0.947)	507383	25.3845	25.38
$	5 2-Chlorophenol-d4	132	8.384	8.393	(0.965)	425250	25.6577	25.66(R)
	4 Bis(2-Chloroethyl)ether	93	8.343	8.352	(0.960)	367789	24.6737	24.67
	6 2-Chlorophenol	128	8.414	8.423	(0.968)	485433	25.5200	25.52
	7 1,3-Dichlorobenzene	146	8.631	8.640	(0.993)	535892	24.7955	24.80
*	8 1,4-Dichlorobenzene-d4	152	8.690	8.699	(1.000)	289791	20.0000	
	9 1,4-Dichlorobenzene	146	8.719	8.722	(1.003)	544224	24.9313	24.93
$	10 1,2-Dichlorobenzene-d4	152	8.995	8.998	(1.035)	312016	25.2369	25.24(R)
	12 1,2-Dichlorobenzene	146	9.013	9.022	(1.037)	511143	25.1418	25.14
	11 Benzyl alcohol	108	8.948	8.969	(1.030)	285456	25.2005	25.20
	14 2,2'-oxybis(1-Chloropropane)	45	9.207	9.216	(1.059)	354325	25.2878	25.29
	13 2-Methylphenol	108	9.166	9.181	(1.055)	402997	26.3923	26.39
	17 Hexachloroethane	117	9.506	9.509	(1.094)	201712	24.9488	24.95
	16 N-Nitroso-di-n-propylamine	70	9.424	9.445	(1.084)	265210	25.3755	25.38
	15 4-Methylphenol	108	9.395	9.415	(1.081)	414665	26.1633	26.16
$	18 Nitrobenzene-d5	82	9.618	9.627	(0.896)	428922	26.6141	26.61(R)
	19 Nitrobenzene	77	9.647	9.662	(0.898)	407643	25.5470	25.55
	20 Isophorone	82	10.017	10.038	(0.933)	666101	25.1364	25.14
	21 2-Nitrophenol	139	10.164	10.173	(0.946)	269470	27.0302	27.03
	22 2,4-Dimethylphenol	107	10.241	10.256	(0.954)	462633	26.0654	26.07
	23 Bis(2-Chloroethoxy)methane	93	10.393	10.408	(0.968)	459521	24.8796	24.88
	24 Benzoic acid	105	10.446	10.567	(0.973)	697191	48.8442	48.84
	25 2,4-Dichlorophenol	162	10.534	10.549	(0.981)	415496	26.6463	26.65
	26 1,2,4-Trichlorobenzene	180	10.681	10.684	(0.995)	426723	24.5734	24.57
*	27 Naphthalene-d8	136	10.740	10.749	(1.000)	1041288	20.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
	28 Naphthalene	128	10.775	10.784	(1.003)	1251278	25.3254	25.33
	29 4-Chloroaniline	127	10.899	10.908	(1.015)	503039	25.5337	25.53
	30 Hexachlorobutadiene	225	11.081	11.084	(1.032)	242046	24.5681	24.57
	31 4-Chloro-3-methylphenol	107	11.692	11.701	(1.089)	388357	27.1596	27.16
	32 2-Methylnaphthalene	142	11.897	11.906	(1.108)	831770	24.7718	24.77
	33 Hexachlorocyclopentadiene	237	12.279	12.282	(0.901)	247661	26.7783	26.78
	34 2,4,6-Trichlorophenol	196	12.402	12.411	(0.910)	296058	26.0188	26.02
	35 2,4,5-Trichlorophenol	196	12.461	12.470	(0.915)	310779	26.8272	26.83
$	36 2-Fluorobiphenyl	172	12.532	12.541	(0.920)	972175	25.1079	25.11(R)
	37 2-Chloronaphthalene	162	12.684	12.699	(0.931)	857433	24.9410	24.94
	38 2-Nitroaniline	65	12.908	12.923	(0.947)	185457	27.9414	27.94
	39 Dimethylphthalate	163	13.266	13.287	(0.974)	1000711	24.7816	24.78
	40 Acenaphthylene	152	13.372	13.381	(0.981)	1312841	25.3168	25.32
	41 2,6-Dinitrotoluene	165	13.366	13.387	(0.981)	241057	26.5288	26.53
*	42 Acenaphthene-d10	164	13.624	13.633	(1.000)	632100	20.0000	
	43 3-Nitroaniline	138	13.589	13.610	(0.997)	219280	27.3683	27.37
	44 Acenaphthene	153	13.677	13.686	(1.004)	833956	24.7009	24.70
	45 2,4-Dinitrophenol	184	13.754	13.780	(1.009)	289825	53.8946	53.89
	46 Dibenzofuran	168	13.942	13.951	(1.023)	1139736	25.3251	25.33
	47 4-Nitrophenol	109	13.865	13.880	(1.018)	152266	26.8847	26.88
	48 2,4-Dinitrotoluene	165	14.006	14.021	(1.028)	322811	26.9428	26.94
	50 Diethylphthalate	149	14.429	14.438	(1.059)	1070437	25.6257	25.63
	49 Fluorene	166	14.500	14.514	(1.064)	1006902	25.8587	25.86
	51 4-Chlorophenyl-phenylether	204	14.511	14.514	(1.065)	481921	25.5176	25.52
	52 4-Nitroaniline	138	14.594	14.626	(1.071)	222189	25.5977	25.60
	53 4,6-Dinitro-2-methylphenol	198	14.670	14.697	(0.915)	406459	55.7299	55.73
	54 N-Nitrosodiphenylamine	169	14.711	14.732	(0.918)	754750	25.3136	25.31
$	55 2,4,6-Tribromophenol	330	14.928	14.937	(1.096)	122806	27.1681	27.17(R)
	56 4-Bromophenyl-phenylether	248	15.299	15.308	(0.955)	272268	25.1977	25.20
	57 Hexachlorobenzene	284	15.539	15.548	(0.970)	272787	24.6474	24.65
	58 Pentachlorophenol	266	15.827	15.842	(0.988)	198545	26.3285	26.33
*	59 Phenanthrene-d10	188	16.027	16.036	(1.000)	1057026	20.0000	
	60 Phenanthrene	178	16.062	16.077	(1.002)	1373128	25.0764	25.08
	61 Anthracene	178	16.139	16.153	(1.007)	1428848	25.5078	25.51
	62 Carbazole	167	16.409	16.424	(1.024)	1270670	24.9632	24.96
	63 Di-n-butylphthalate	149	17.084	17.093	(1.066)	1704804	26.2672	26.27
	64 Fluoranthene	202	18.018	18.027	(1.124)	1449527	25.5494	25.55
	65 Pyrene	202	18.383	18.397	(0.902)	1489120	24.8406	24.84
$	66 Terphenyl-d14	244	18.665	18.674	(0.916)	920765	25.1526	25.15(R)
	67 Butylbenzylphthalate	149	19.528	19.543	(0.958)	787143	25.8738	25.87
	68 Benzo(a)anthracene	228	20.350	20.365	(0.999)	1389923	25.0808	25.08
*	69 Chrysene-d12	240	20.380	20.389	(1.000)	945392	20.0000	
	70 3,3'-Dichlorobenzidine	252	20.339	20.348	(0.998)	460373	25.6856	25.69
	71 Chrysene	228	20.421	20.436	(1.002)	1348854	24.8683	24.87
	72 bis(2-Ethylhexyl)phthalate	149	20.515	20.518	(0.956)	1091697	26.3692	26.37
*	134 Di-n-octylphthalate-d4	153	21.449	21.458	(1.000)	1458222	20.0000	
	73 Di-n-octylphthalate	149	21.461	21.470	(1.001)	1841837	25.4048	25.40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
74	Benzo(b)fluoranthene	252	22.019	22.040	(0.976)	1372217	24.6520	24.65
75	Benzo(k)fluoranthene	252	22.054	22.075	(0.977)	1482389	26.2902	26.29
187	Total Benzofluoranthenes	252	22.054	22.075	(0.977)	2706497	51.2879	51.29
76	Benzo(a)pyrene	252	22.489	22.510	(0.996)	1275956	25.8408	25.84
* 77	Perylene-d12	264	22.571	22.580	(1.000)	894258	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	24.416	24.454	(1.082)	1345166	25.3704	25.37
79	Dibenzo(a,h)anthracene	278	24.439	24.477	(1.083)	1114931	26.1572	26.16
80	Benzo(g,h,i)perylene	276	24.944	24.989	(1.105)	1147098	25.3100	25.31
90	N-Nitrosodimethylamine	74	4.261	4.281	(0.490)	209520	24.8187	24.82
103	Pyridine	79	4.237	4.240	(0.488)	377090	25.9012	25.90
91	Aniline	93	8.237	8.252	(0.948)	518241	24.8402	24.84
105	1-methylnaphthalene	142	12.073	12.082	(1.124)	809992	24.6257	24.63
93	Benzidine	184	18.242	18.251	(0.895)	409767	23.6579	23.66
111	Azobenzene (1,2-DP-Hydrazine)	77	14.764	14.779	(1.084)	804253	25.7433	25.74
143	1,4-Dioxane	88	3.485	3.494	(0.401)	136073	24.3666	24.37
$ 137	d8-1,4-Dioxane	96	3.415	3.424	(0.393)	142232	24.4844	24.48(R)
151	1,2,4,5-Tetrachlorobenzene	216	12.238	12.247	(0.898)	410665	24.7046	24.70
120	2,3,4,6-Tetrachlorophenol	232	14.212	14.221	(1.043)	258011	26.9020	26.90
144	alpha-Terpineol	59	10.775	10.790	(1.003)	218542	25.0926	25.09
98	Retene	219	18.923	18.932	(0.928)	496626	24.7205	24.72
133	Butylatedhydroxytoluene	205	13.765	13.774	(1.010)	784653	26.0616	26.06
115	Tributyl Phosphate	99	14.776	14.802	(0.922)	1064967	26.5486	26.55
116	Dibutyl Phenyl Phosphate	175	16.526	16.535	(1.031)	868517	26.3522	26.35
117	Butyl Diphenyl Phosphate	94	18.236	18.245	(0.895)	245396	25.3828	25.38
118	Triphenyl Phosphate	326	19.857	19.866	(0.974)	242593	25.3227	25.32
123	Acetophenone	105	9.377	9.392	(0.873)	562165	25.4250	25.43
179	n-Decane	57	8.496	8.505	(0.978)	293017	25.2600	25.26
180	n-Octadecane	57	15.880	15.883	(0.991)	374396	25.7724	25.77
168	Pentachlorobenzene	250	13.983	13.992	(1.026)	321693	24.4279	24.43
113	Diphenyl Oxide	170	12.867	12.870	(0.944)	832301	24.4721	24.47
112	Biphenyl	154	12.673	12.682	(0.930)	983481	25.1520	25.15
110	Tetrachloroguaiacol	247	15.951	15.971	(0.995)	324626	52.6521	52.65
109	3,4,5-Trichloroguaiacol	213	14.306	14.315	(0.893)	168964	26.6531	26.65
181	3,4,6-Trichloroguaiacol	211	14.429	14.444	(0.900)	200402	26.8849	26.88
108	4,5,6-Trichloroguaiacol	213	15.340	15.349	(0.957)	171608	25.9247	25.92
184	3,4-Dichloroguaiacol	192	12.755	12.764	(0.936)	166207	25.4030	25.40
107	4,5-Dichloroguaiacol	192	13.530	13.545	(0.993)	227452	24.7186	24.72
182	4,6-Dichloroguaiacol	192	13.566	13.580	(0.996)	212467	26.1631	26.16
185	4-Chloroguaiacol	115	11.650	11.660	(1.341)	114163	13.0162	13.02
106	Guaiacol	124	9.636	9.645	(1.109)	392832	25.4304	25.43

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 07191008.d
Lab Smp Id: ICV0719
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

Calibration Date: 19-JUL-2010
Calibration Time: 16:18
Client Smp ID: ICV0719
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	289791	-18.71
27 Naphthalene-d8	1293412	646706	2586824	1041288	-19.49
42 Acenaphthene-d10	785897	392948	1571794	632100	-19.57
59 Phenanthrene-d10	1313990	656995	2627980	1057026	-19.56
69 Chrysene-d12	1155293	577646	2310586	945392	-18.17
134 Di-n-octylphthala	1825297	912648	3650594	1458222	-20.11
77 Perylene-d12	1146289	573144	2292578	894258	-21.99

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.70	8.20	9.20	8.69	-0.09
27 Naphthalene-d8	10.74	10.24	11.24	10.74	-0.02
42 Acenaphthene-d10	13.63	13.13	14.13	13.62	-0.02
59 Phenanthrene-d10	16.03	15.53	16.53	16.03	-0.01
69 Chrysene-d12	20.38	19.88	20.88	20.38	-0.01
134 Di-n-octylphthala	21.45	20.95	21.95	21.45	-0.01
77 Perylene-d12	22.58	22.08	23.08	22.57	-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: Client SDG: 20100719
Sample Matrix: NONE Fraction: SV
Lab Smp Id: ICV0719 Client Smp ID: ICV0719
Level: Operator: JZ
Data Type: MS DATA SampleType: LCS
SpikeList File: ICVS.spk Quant Type: ISTD
Sublist File: ICAL.sub
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

SPIKE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
3 Phenol	25.00	25.38	101.54	
4 Bis(2-Chloroethyl)	25.00	24.67	98.69	
6 2-Chlorophenol	25.00	25.52	102.08	
7 1,3-Dichlorobenzen	25.00	24.80	99.18	
9 1,4-Dichlorobenzen	25.00	24.93	99.73	
11 Benzyl alcohol	25.00	25.20	100.80	
12 1,2-Dichlorobenzen	25.00	25.14	100.57	
13 2-Methylphenol	25.00	26.39	105.57	
14 2,2'-oxybis(1-Chlo	25.00	25.29	101.15	
15 4-Methylphenol	25.00	26.16	104.65	
16 N-Nitroso-di-n-pro	25.00	25.38	101.50	
17 Hexachloroethane	25.00	24.95	99.80	
19 Nitrobenzene	25.00	25.55	102.19	
20 Isophorone	25.00	25.14	100.55	
21 2-Nitrophenol	25.00	27.03	108.12	
22 2,4-Dimethylphenol	25.00	26.07	104.26	
23 Bis(2-Chloroethoxy	25.00	24.88	99.52	
24 Benzoic acid	50.00	48.84	97.69	
25 2,4-Dichlorophenol	25.00	26.65	106.59	
26 1,2,4-Trichloroben	25.00	24.57	98.29	
28 Naphthalene	25.00	25.33	101.30	
29 4-Chloroaniline	25.00	25.53	102.13	
30 Hexachlorobutadien	25.00	24.57	98.27	
31 4-Chloro-3-methylp	25.00	27.16	108.64	
32 2-Methylnaphthalen	25.00	24.77	99.09	
33 Hexachlorocyclopen	25.00	26.78	107.11	
34 2,4,6-Trichlorophe	25.00	26.02	104.08	
35 2,4,5-Trichlorophe	25.00	26.83	107.31	
37 2-Chloronaphthalen	25.00	24.94	99.76	
38 2-Nitroaniline	25.00	27.94	111.77	
39 Dimethylphthalate	25.00	24.78	99.13	
40 Acenaphthylene	25.00	25.32	101.27	
41 2,6-Dinitrotoluene	25.00	26.53	106.12	

SPIKE	COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
43	3-Nitroaniline	25.00	27.37	109.47	
44	Acenaphthene	25.00	24.70	98.80	
45	2,4-Dinitrophenol	50.00	53.89	107.79	
46	Dibenzofuran	25.00	25.33	101.30	
47	4-Nitrophenol	25.00	26.88	107.54	
48	2,4-Dinitrotoluene	25.00	26.94	107.77	
49	Fluorene	25.00	25.86	103.43	
50	Diethylphthalate	25.00	25.63	102.50	
51	4-Chlorophenyl-phe	25.00	25.52	102.07	
52	4-Nitroaniline	25.00	25.60	102.39	
53	4,6-Dinitro-2-meth	50.00	55.73	111.46	
54	N-Nitrosodiphenyla	25.00	25.31	101.25	
56	4-Bromophenyl-phen	25.00	25.20	100.79	
57	Hexachlorobenzene	25.00	24.65	98.59	
58	Pentachlorophenol	25.00	26.33	105.31	
60	Phenanthrene	25.00	25.08	100.31	
61	Anthracene	25.00	25.51	102.03	
63	Di-n-butylphthalat	25.00	26.27	105.07	
64	Fluoranthene	25.00	25.55	102.20	
65	Pyrene	25.00	24.84	99.36	
67	Butylbenzylphthala	25.00	25.87	103.50	
68	Benzo(a)anthracene	25.00	25.08	100.32	
70	3,3'-Dichlorobenzi	25.00	25.69	102.74	
71	Chrysene	25.00	24.87	99.47	
72	bis(2-Ethylhexyl)p	25.00	26.37	105.48	
73	Di-n-octylphthalat	25.00	25.40	101.62	
74	Benzo(b)fluoranthe	25.00	24.65	98.61	
75	Benzo(k)fluoranthe	25.00	26.29	105.16	
76	Benzo(a)pyrene	25.00	25.84	103.36	
78	Indeno(1,2,3-cd)py	25.00	25.37	101.48	
79	Dibenzo(a,h)anthra	25.00	26.16	104.63	
80	Benzo(g,h,i)peryle	25.00	25.31	101.24	
90	N-Nitrosodimethyla	25.00	24.82	99.27	
91	Aniline	25.00	24.84	99.36	
93	Benzidine	25.00	23.66	94.63	
105	1-methylnaphthalen	25.00	24.63	98.50	
120	2,3,4,6-Tetrachlor	25.00	26.90	107.61	
151	1,2,4,5-Tetrachlor	25.00	24.70	98.82	
110	Tetrachloroguaiaco	50.00	52.65	105.30	
109	3,4,5-Trichlorogua	25.00	26.65	106.61	
181	3,4,6-Trichlorogua	25.00	26.88	107.54	
108	4,5,6-Trichlorogua	25.00	25.92	103.70	
184	3,4-Dichloroguaiac	25.00	25.40	101.61	
107	4,5-Dichloroguaiac	25.00	24.72	98.87	
182	4,6-Dichloroguaiac	25.00	26.16	104.65	
185	4-Chloroguaiacol	12.50	13.02	104.13	
106	Guaiacol	25.00	25.43	101.72	

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 20100719
Sample Matrix: NONE Fraction: SV
Lab Smp Id: ICV0719 Client Smp ID: ICV0719
Level: Operator: JZ
Data Type: MS DATA SampleType: LCS
SpikeList File: ICVS.spk Quant Type: ISTD
Sublist File: ICAL.sub
Method File: /chem3/nt4.i/20100719.b/SW846100719.m
Misc Info: 10-

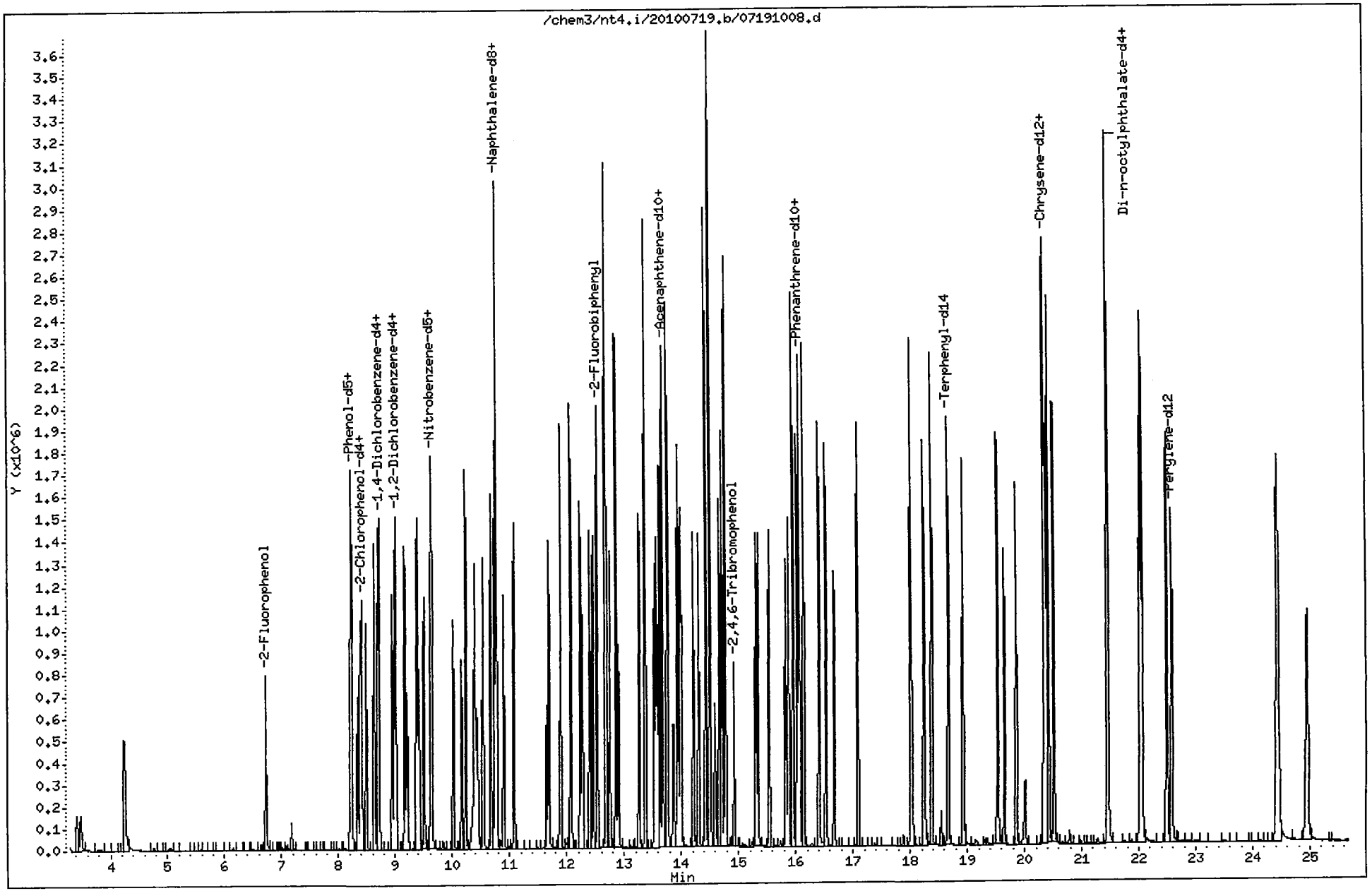
SURROGATE COMPOUND	AMOUNT ADDED ug/mL	AMOUNT RECOVERED ug/mL	% RECOVERED	LIMITS
$ 1 2-Fluorophenol	25.00	25.25	100.99	
$ 2 Phenol-d5	25.00	26.02	104.08	
$ 5 2-Chlorophenol-d4	25.00	25.66	102.63	
$ 10 1,2-Dichlorobenzen	25.00	25.24	100.95	
$ 18 Nitrobenzene-d5	25.00	26.61	106.46	
$ 36 2-Fluorobiphenyl	25.00	25.11	100.43	
$ 55 2,4,6-Tribromophen	25.00	27.17	108.67	
$ 66 Terphenyl-d14	25.00	25.15	100.61	
$ 137 d8-1,4-Dioxane	25.00	24.48	97.94	

Data File: /chem3/nt4.i/20100719.b/07191008.d
Date : 19-JUL-2010 20:21
Client ID: ICV0719
Sample Info: ICV0719

Instrument: nt4.i

Operator: JZ
Column diameter: 0.32

Column phase: ZB-5msi



RG79:00651

Semivolatile PAH Raw Data
Run Logs, Continuing Calibrations, and Raw Data

ARI Job ID: RG79

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GC/MS SVOA Analyst Notes / Corrective Action Log

ARI Project ID: RG79 Client ID: Floyd / Snider

ARI SOP: **801S**(SIM-PNA) **802S**(Butyl Tins) **804S**(SVOA-8270D) **805S**(op-Pest)

Parameter(s): 8270

Instrument: NT-2 NT-4 NT-6 NT-8 NT11

Curve Date: 7/19/10 Analysis Start Date: 8/17; 8/18 & 8/19/10

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	CCal acceptable?	YES / NO
Q flag applied?	YES / NO	Q flag applied?	YES / NO
Surrogate Recovery in Control?	YES / NO	Special Analysis Criteria Met?	YES / NO / NA
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	Yes / NO

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

8/17: Sample A + MB/LCS

8/18: Samples E, G, H, K–N, P & Q + MS/MSD

8/19: Samples B–D

Samples B–D were run with 10× dilution

Raw data for less dilution (with SS out of QC) attached.

Sample O: SS recoveries out of QC limits @ low bias.

Send back for re-extraction.

Forms included

Additional Details on Reverse: Yes / No

Analyst: _____ **Date:** 08/20/10

Reviewer: VB **Date:** 8/21/10

Analytical Resources Inc.: Organics Instrument Log

NT-4 Serial No.: GC = US00010849; MS = US72821113

Date: 8/17/10 Analysis: 8270 Analyst: KB

GC Program: ABN Column No: 172294 Column Type: 2B-CMS

Instrument Tune (.U or .CT.): 100716 EM Voltage: 1247

Calibration File: 08171001 Curve Date: 7/19/10

IS/SS	Ical/Ccal	LCS/ICV
1762-1	1747-3, 1733-1	
	1735-1, 1736-1	
	~~1801A~~, 1743-5	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt4.i/20100817.b

	Time	Filename	LabID	ClientId	DF											
1	1052	08171001.d	CC0817	CC0817	1	7.80	481605	9.84	1689840	12.69	1087401	15.06	1851340	19.37	1572429	21.52	1639408	20.52	2437093
2	1126	08171002.d	RI25D	S1-04-SO-081 10X	10	7.80	417795	9.84	1429560	12.69	890654	15.05	1514255	19.36	1344623	20.52	2020632	21.53	1424776
3	1200	08171003.d	RI25E	S1-05-SO-081 10X	10	7.79	375472	9.83	1299955	12.69	768868	15.05	1348214	19.36	1234970	20.52	1873330	21.53	1293015
4	1234	08171004.d	RI25I	S1-09-SO-081 5X	5	7.80	452685	9.84	1520664	12.69	899450	15.05	1534640	19.37	1477040	20.53	2207234	21.54	1478151
5	1308	08171005.d	RI25J	S1-10-SO-081 5X	5	7.79	362466	9.84	1356981	12.68	820975	15.05	1351581	19.37	1275900	20.53	1953351	21.54	1279229
6	1342	08171006.d	RI25N	S2-04-SO-081 3X	3	7.80	410285	9.84	1424759	12.69	942786	15.05	1555262	19.37	1421492	20.54	2177370	21.53	998037
7	1416	08171007.d	RI25A	S1-01-SO-081 10X	10	7.80	367259	9.84	1280396	12.69	791949	15.05	1338089	19.37	1195804	20.53	1790458	21.53	1091180
8	1449	08171008.d	RI25F	S1-06-SO-081 15X	15	7.80	460807	9.83	1583053	12.69	948391	15.06	1587278	19.37	1471837	20.53	2188916	21.54	1342141
9	1523	08171009.d	RI25G	S1-07-SO-081 10X	10	7.80	446774	9.84	1650002	12.69	990631	15.05	1631044	19.37	1528954	20.53	2339206	21.54	1362491
10	1635	08171010.d	I5772	8/17/10	1	7.79	340947	9.83	1141347	12.69	688612	15.05	1143366	19.36	1088100	20.51	1644378	21.51	1001952
11	1709	08171011.d	I5785	I5785	1	7.79	332251	9.83	1165723	12.68	763819	15.05	1268499	19.36	1170275	20.51	1620926	21.51	1069281
12	1743	08171012.d	1752-2 4X	100/150ug/ml	5	7.79	357439	9.84	1211472	12.69	718842	15.05	1286383	19.35	1120930	20.51	1597268	21.51	940031
13	1829	08171013.d	RG79MBS1	RG79MBS1	1	9.83	1308529	12.69	840053	15.06	1391109	19.36	1193377	21.51	1172911				
14	1903	08171014.d	RG79LCSS1	RG79LCSS1	1	9.83	1690628	12.69	1012338	15.05	1748315	19.36	1506491	21.52	1439845				
15	1936	08171015.d	RG79A 3X	PSB11-0-0.5-	3	9.83	1616787	12.69	970349	15.05	1615641	19.37	1496212	21.53	973412				
16	2010	08171016.d	RG79B 3X	PSB11-1.5-2- 2.5 out -KR	3	9.84	1836836	12.69	1098318	15.07	1755826	19.43	1014683	21.59	454120				
17	2044	08171017.d	RG79C 3X	PSB11-2-4-07	3	9.84	1467406	12.70	912634	15.07	1654359	19.44	566066	21.61	236585				
18	2118	08171018.d	RG79D 3X	PSB11-2-4-07	3	9.84	1263944	12.70	796981	15.07	1371803	19.42	598004	21.59	238072				

08/18/10

Maintenance / Comments

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.

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/nt4.i/20100817.b

ARI Job No.: CC08 Method: SW846100719.m Instrument: nt4.i Date: 17-AUG-2010

AR 8/18/10

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1052	08171001.d	CC0817	CC0817	1	4-Nitrophenol,
1829	08171013.d	RG79MBS1	RG79MBS1	1	NO MANUAL INTEGRATION
1903	08171014.d	RG79LCSS1	RG79LCSS1	1	NO MANUAL INTEGRATION
1936	08171015.d	RG79A	PSB11-0-0.	3	NO MANUAL INTEGRATION

RC79 00038

Q-FLAG SUMMARY FOR DATABATCH - /chem3/nt4.i/20100817.b

Instrument: nt4.i Date: 17-AUG-2010 Method: SW846100719.m

INITIAL CAL: 19-JUL-2010

Compound	%RSD or R^2
NO Q-FLAGS	

AB 08/17/10

CONTINUING CAL: 17-AUG-2010

Compound	%D
Hexachlorocyclopentadiene	-25.3
Pentachlorophenol	-24.3

MC

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i
Lab File ID: 08171001.d
Analysis Type:
Lab Sample ID: CC0817
Method: /chem3/nt4.i/20100817.b/SW846100719.m

Injection Date: 17-AUG-2010 10:52
Init. Cal. Date(s): 19-JUL-2010 19-JUL-2010
Init. Cal. Times: 16:18 19:48
Quant Type: ISTD

AB 08/17/10

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 2-Fluorophenol	1.08371	1.09041	1.09041	0.010	0.61771	20.00000	Averaged	
$ 2 Phenol-d5	1.06604	1.09310	1.09310	0.010	2.53794	20.00000	Averaged	
3 Phenol	1.37947	1.27091	1.27091	0.100	-7.87020	20.00000	Averaged	
$ 5 2-Chlorophenol-d4	1.14386	1.11540	1.11540	0.010	-2.48806	20.00000	Averaged	
4 Bis(2-Chloroethyl)ether	1.02875	1.02412	1.02412	0.700	-0.45008	20.00000	Averaged	
6 2-Chlorophenol	1.31278	1.25086	1.25086	0.800	-4.71687	20.00000	Averaged	
7 1,3-Dichlorobenzene	1.49159	1.42248	1.42248	0.010	-4.63295	20.00000	Averaged	
9 1,4-Dichlorobenzene	1.50653	1.42903	1.42903	0.010	-5.14447	20.00000	Averaged	
$ 10 1,2-Dichlorobenzene-d4	0.85327	0.76619	0.76619	0.010	-10.20519	20.00000	Averaged	
12 1,2-Dichlorobenzene	1.40311	1.30725	1.30725	0.010	-6.83186	20.00000	Averaged	
11 Benzyl alcohol	0.78176	0.72527	0.72527	0.010	-7.22648	20.00000	Averaged	
14 2,2'-oxybis(1-Chloropropane	0.96702	0.95556	0.95556	0.010	-1.18555	20.00000	Averaged	
13 2-Methylphenol	1.05383	1.00848	1.00848	0.700	-4.30364	20.00000	Averaged	
17 Hexachloroethane	0.55799	0.51017	0.51017	0.300	-8.57013	20.00000	Averaged	
16 N-Nitroso-di-n-propylamine	0.72131	0.69829	0.69829	0.500	-3.19128	20.00000	Averaged	
15 4-Methylphenol	1.09383	1.03681	1.03681	0.600	-5.21293	20.00000	Averaged	
$ 18 Nitrobenzene-d5	0.30955	0.30477	0.30477	0.010	-1.54366	20.00000	Averaged	
19 Nitrobenzene	0.30648	0.29485	0.29485	0.200	-3.79298	20.00000	Averaged	
20 Isophorone	0.50898	0.49971	0.49971	0.300	-1.82074	20.00000	Averaged	
21 2-Nitrophenol	0.19148	0.20011	0.20011	0.100	4.50996	20.00000	Averaged	
22 2,4-Dimethylphenol	0.34090	0.32532	0.32532	0.200	-4.57181	20.00000	Averaged	
23 Bis(2-Chloroethoxy)methane	0.35475	0.35592	0.35592	0.050	0.33111	20.00000	Averaged	
24 Benzoic acid	46.01981	50.00000	0.25233	0.010	-7.96037	20.00000	Linear	
25 2,4-Dichlorophenol	0.29949	0.29251	0.29251	0.100	-2.33143	20.00000	Averaged	
26 1,2,4-Trichlorobenzene	0.33353	0.31565	0.31565	0.010	-5.36145	20.00000	Averaged	
28 Naphthalene	0.94898	0.90782	0.90782	0.100	-4.33771	20.00000	Averaged	
29 4-Chloroaniline	0.37840	0.37516	0.37516	0.010	-0.85504	20.00000	Averaged	
30 Hexachlorobutadiene	0.18923	0.17387	0.17387	0.010	-8.11515	20.00000	Averaged	
31 4-Chloro-3-methylphenol	0.27464	0.29085	0.29085	0.200	5.90238	20.00000	Averaged	
32 2-Methylnaphthalene	0.64492	0.62947	0.62947	0.300	-2.39498	20.00000	Averaged	
33 Hexachlorocyclopentadiene	0.29263	0.21847	0.21847	0.001	-25.34271	20.00000	Averaged	<-
34 2,4,6-Trichlorophenol	0.36003	0.34697	0.34697	0.200	-3.62741	20.00000	Averaged	
35 2,4,5-Trichlorophenol	0.36654	0.36833	0.36833	0.200	0.48732	20.00000	Averaged	
$ 36 2-Fluorobiphenyl	1.22512	1.10742	1.10742	0.010	-9.60694	20.00000	Averaged	
37 2-Chloronaphthalene	1.08775	0.98462	0.98462	0.700	-9.48118	20.00000	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i Injection Date: 17-AUG-2010 10:52
Lab File ID: 08171001.d Init. Cal. Date(s): 19-JUL-2010 19-JUL-2010
Analysis Type: Init. Cal. Times: 16:18 19:48
Lab Sample ID: CC0817 Quant Type: ISTD
Method: /chem3/nt4.i/20100817.b/SW846100719.m

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
38 2-Nitroaniline	0.21001	0.25082	0.25082	0.010	19.43134	20.00000	Averaged	
39 Dimethylphthalate	1.27768	1.21019	1.21019	0.010	-5.28243	20.00000	Averaged	
40 Acenaphthylene	1.64077	1.60021	1.60021	0.900	-2.47197	20.00000	Averaged	
41 2,6-Dinitrotoluene	0.28751	0.30037	0.30037	0.100	4.47269	20.00000	Averaged	
43 3-Nitroaniline	0.25351	0.25952	0.25952	0.010	2.36928	20.00000	Averaged	
44 Acenaphthene	1.06825	1.01386	1.01386	0.100	-5.09175	20.00000	Averaged	
45 2,4-Dinitrophenol	49.32169	50.00000	0.16671	0.030	-1.35661	20.00000	Quadratic	
46 Dibenzofuran	1.42396	1.35955	1.35955	0.800	-4.52271	20.00000	Averaged	
47 4-Nitrophenol	0.17920	0.16057	0.16057	0.010	-10.39883	20.00000	Averaged	
48 2,4-Dinitrotoluene	0.37910	0.39541	0.39541	0.200	4.30221	20.00000	Averaged	
50 Diethylphthalate	1.32169	1.21711	1.21711	0.010	-7.91238	20.00000	Averaged	
49 Fluorene	1.23204	1.15867	1.15867	0.100	-5.95531	20.00000	Averaged	
51 4-Chlorophenyl-phenylether	0.59756	0.56489	0.56489	0.100	-5.46683	20.00000	Averaged	
52 4-Nitroaniline	0.27464	0.29455	0.29455	0.010	7.24982	20.00000	Averaged	
53 4,6-Dinitro-2-methylphenol	0.13800	0.13318	0.13318	0.001	-3.49448	20.00000	Averaged	
54 N-Nitrosodiphenylamine	0.56415	0.52173	0.52173	0.010	-7.51939	20.00000	Averaged	
$ 55 2,4,6-Tribromophenol	0.14302	0.14601	0.14601	0.010	2.09113	20.00000	Averaged	
56 4-Bromophenyl-phenylether	0.20445	0.18992	0.18992	0.100	-7.10638	20.00000	Averaged	
57 Hexachlorobenzene	0.20941	0.19026	0.19026	0.100	-9.14662	20.00000	Averaged	
58 Pentachlorophenol	0.14268	0.10799	0.10799	0.010	-24.31340	20.00000	Averaged	<-
60 Phenanthrene	1.03607	0.92870	0.92870	0.700	-10.36324	20.00000	Averaged	
61 Anthracene	1.05988	0.96262	0.96262	0.700	-9.17616	20.00000	Averaged	
62 Carbazole	0.96311	0.89524	0.89524	0.010	-7.04650	20.00000	Averaged	
63 Di-n-butylphthalate	1.22802	1.12470	1.12470	0.010	-8.41325	20.00000	Averaged	
64 Fluoranthene	1.07347	0.98578	0.98578	0.600	-8.16930	20.00000	Averaged	
65 Pyrene	1.26819	1.19817	1.19817	0.600	-5.52121	20.00000	Averaged	
$ 66 Terphenyl-d14	0.77444	0.73264	0.73264	0.010	-5.39661	20.00000	Averaged	
67 Butylbenzylphthalate	0.64359	0.63088	0.63088	0.010	-1.97488	20.00000	Averaged	
68 Benzo(a)anthracene	1.17238	1.10310	1.10310	0.800	-5.90939	20.00000	Averaged	
70 3,3'-Dichlorobenzidine	0.37917	0.39483	0.39483	0.010	4.13027	20.00000	Averaged	
71 Chrysene	1.14746	1.08119	1.08119	0.700	-5.77563	20.00000	Averaged	
72 bis(2-Ethylhexyl)phthalate	0.56782	0.55475	0.55475	0.010	-2.30159	20.00000	Averaged	
73 Di-n-octylphthalate	0.99436	0.90519	0.90519	0.010	-8.96728	20.00000	Averaged	
74 Benzo(b)fluoranthene	1.24491	1.19740	1.19740	0.700	-3.81599	20.00000	Averaged	
75 Benzo(k)fluoranthene	1.26106	1.09892	1.09892	0.700	-12.85715	20.00000	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i
Lab File ID: 08171001.d
Analysis Type:
Lab Sample ID: CC0817
Method: /chem3/nt4.i/20100817.b/SW846100719.m

Injection Date: 17-AUG-2010 10:52
Init. Cal. Date(s): 19-JUL-2010 19-JUL-2010
Init. Cal. Times: 16:18 19:48
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
187 Total Benzofluoranthenes	1.18021	1.07532	1.07532	0.010	-8.88733	20.00000	Averaged
76 Benzo(a)pyrene	1.10432	1.03607	1.03607	0.700	-6.18039	20.00000	Averaged
78 Indeno(1,2,3-cd)pyrene	1.18581	1.19056	1.19056	0.500	0.40066	20.00000	Averaged
79 Dibenzo(a,h)anthracene	0.95329	0.97207	0.97207	0.400	1.97014	20.00000	Averaged
80 Benzo(g,h,i)perylene	1.01362	1.04544	1.04544	0.500	3.13943	20.00000	Averaged
90 N-Nitrosodimethylamine	0.58263	0.58586	0.58586	0.010	0.55508	20.00000	Averaged
103 Pyridine	1.00478	1.05089	1.05089	0.010	4.58899	20.00000	Averaged
91 Aniline	1.43987	1.37777	1.37777	0.010	-4.31253	20.00000	Averaged
105 1-methylnaphthalene	0.63176	0.62068	0.62068	0.010	-1.75394	20.00000	Averaged

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100817.b/08171001.d
Lab Smp Id: CC0817 Client Smp ID: CC0817
Inj Date : 17-AUG-2010 10:52
Operator : JZ Inst ID: nt4.i
Smp Info : CC0817
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100817.b/SW846100719.m
Meth Date : 17-Aug-2010 12:25 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICALS.sub
Target Version: 3.50

JZ 08/17/10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	5.850	5.850	(0.750)	656433	25.0000	25.15
$	2 Phenol-d5	99	7.412	7.412	(0.950)	658053	25.0000	25.63
	3 Phenol	94	7.436	7.436	(0.953)	765093	25.0000	23.03
$	5 2-Chlorophenol-d4	132	7.512	7.512	(0.963)	671477	25.0000	24.38
	4 Bis(2-Chloroethyl)ether	93	7.483	7.483	(0.959)	616528	25.0000	24.89
	6 2-Chlorophenol	128	7.536	7.536	(0.966)	753027	25.0000	23.82
	7 1,3-Dichlorobenzene	146	7.736	7.736	(0.992)	856344	25.0000	23.84
*	8 1,4-Dichlorobenzene-d4	152	7.800	7.800	(1.000)	481605	20.0000	
	9 1,4-Dichlorobenzene	146	7.824	7.824	(1.003)	860286	25.0000	23.71
$	10 1,2-Dichlorobenzene-d4	152	8.100	8.100	(1.038)	461252	25.0000	22.45
	12 1,2-Dichlorobenzene	146	8.117	8.117	(1.041)	786972	25.0000	23.29
	11 Benzyl alcohol	108	8.100	8.100	(1.038)	436617	25.0000	23.19
	14 2,2'-oxybis(1-Chloropropane)	45	8.347	8.347	(1.070)	575251	25.0000	24.70
	13 2-Methylphenol	108	8.352	8.352	(1.071)	607109	25.0000	23.92
	17 Hexachloroethane	117	8.599	8.599	(1.102)	307127	25.0000	22.86
	16 N-Nitroso-di-n-propylamine	70	8.570	8.570	(1.099)	420375	25.0000	24.20
	15 4-Methylphenol	108	8.587	8.587	(1.101)	624168	25.0000	23.70
$	18 Nitrobenzene-d5	82	8.734	8.734	(0.887)	643761	25.0000	24.61
	19 Nitrobenzene	77	8.764	8.764	(0.890)	622819	25.0000	24.05
	20 Isophorone	82	9.151	9.151	(0.930)	1055533	25.0000	24.54
	21 2-Nitrophenol	139	9.281	9.281	(0.943)	422702	25.0000	26.13
	22 2,4-Dimethylphenol	107	9.416	9.416	(0.956)	687169	25.0000	23.86
	23 Bis(2-Chloroethoxy)methane	93	9.545	9.545	(0.970)	751819	25.0000	25.08
	24 Benzoic acid	105	9.721	9.721	(0.987)	1066004	50.0000	46.02
	25 2,4-Dichlorophenol	162	9.674	9.674	(0.983)	617873	25.0000	24.42
	26 1,2,4-Trichlorobenzene	180	9.786	9.786	(0.994)	666751	25.0000	23.66
*	27 Naphthalene-d8	136	9.845	9.845	(1.000)	1689840	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	9.874	9.874	(1.003)	1917581	25.0000	23.92
	29 4-Chloroaniline	127	10.027	10.027	(1.018)	792453	25.0000	24.79
	30 Hexachlorobutadiene	225	10.191	10.191	(1.035)	367271	25.0000	22.97
	31 4-Chloro-3-methylphenol	107	10.861	10.861	(1.103)	614369	25.0000	26.48
	32 2-Methylnaphthalene	142	10.990	10.990	(1.116)	1329637	25.0000	24.40
	33 Hexachlorocyclopentadiene	237	11.366	11.366	(0.895)	296956	25.0000	18.66
	34 2,4,6-Trichlorophenol	196	11.519	11.519	(0.907)	471614	25.0000	24.09
	35 2,4,5-Trichlorophenol	196	11.577	11.577	(0.912)	500647	25.0000	25.12
$	36 2-Fluorobiphenyl	172	11.636	11.636	(0.917)	1505262	25.0000	22.60
	37 2-Chloronaphthalene	162	11.765	11.765	(0.927)	1338349	25.0000	22.63
	38 2-Nitroaniline	65	12.012	12.012	(0.946)	340925	25.0000	29.86
	39 Dimethylphthalate	163	12.388	12.388	(0.976)	1644955	25.0000	23.68
	40 Acenaphthylene	152	12.441	12.441	(0.980)	2175083	25.0000	24.38
	41 2,6-Dinitrotoluene	165	12.476	12.476	(0.983)	408272	25.0000	26.12
*	42 Acenaphthene-d10	164	12.694	12.694	(1.000)	1087401	20.0000	
	43 3-Nitroaniline	138	12.694	12.694	(1.000)	352749	25.0000	25.59
	44 Acenaphthene	153	12.746	12.746	(1.004)	1378091	25.0000	23.73
	45 2,4-Dinitrophenol	184	12.864	12.864	(1.013)	453210	50.0000	49.32
	46 Dibenzofuran	168	13.005	13.005	(1.025)	1847976	25.0000	23.87
	47 4-Nitrophenol	109	13.040	13.040	(1.027)	218251	25.0000	22.40(M)
	48 2,4-Dinitrotoluene	165	13.105	13.105	(1.032)	537457	25.0000	26.08
	50 Diethylphthalate	149	13.540	13.540	(1.067)	1654360	25.0000	23.02
	49 Fluorene	166	13.563	13.563	(1.068)	1574917	25.0000	23.51
	51 4-Chlorophenyl-phenylether	204	13.586	13.586	(1.070)	767828	25.0000	23.63
	52 4-Nitroaniline	138	13.686	13.686	(1.078)	400371	25.0000	26.81
	53 4,6-Dinitro-2-methylphenol	198	13.769	13.769	(0.914)	616384	50.0000	48.25
	54 N-Nitrosodiphenylamine	169	13.804	13.804	(0.917)	1207368	25.0000	23.12
$	55 2,4,6-Tribromophenol	330	13.986	13.986	(1.102)	198469	25.0000	25.52
	56 4-Bromophenyl-phenylether	248	14.362	14.362	(0.954)	439504	25.0000	23.22
	57 Hexachlorobenzene	284	14.585	14.585	(0.968)	440287	25.0000	22.71
	58 Pentachlorophenol	266	14.891	14.891	(0.989)	249915	25.0000	18.92
*	59 Phenanthrene-d10	188	15.061	15.061	(1.000)	1851340	20.0000	
	60 Phenanthrene	178	15.096	15.096	(1.002)	2149177	25.0000	22.41
	61 Anthracene	178	15.173	15.173	(1.007)	2227682	25.0000	22.71
	62 Carbazole	167	15.460	15.460	(1.027)	2071753	25.0000	23.24
	63 Di-n-butylphthalate	149	16.177	16.177	(1.074)	2602757	25.0000	22.90
	64 Fluoranthene	202	17.029	17.029	(1.131)	2281257	25.0000	22.96
	65 Pyrene	202	17.381	17.381	(0.897)	2355052	25.0000	23.62
$	66 Terphenyl-d14	244	17.699	17.699	(0.914)	1440034	25.0000	23.65
	67 Butylbenzylphthalate	149	18.586	18.586	(0.960)	1240025	25.0000	24.51
	68 Benzo(a)anthracene	228	19.338	19.338	(0.998)	2168177	25.0000	23.52
*	69 Chrysene-d12	240	19.367	19.367	(1.000)	1572429	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.355	19.355	(0.999)	776062	25.0000	26.03
	71 Chrysene	228	19.408	19.408	(1.002)	2125113	25.0000	23.56
	72 bis(2-Ethylhexyl)phthalate	149	19.584	19.584	(0.954)	1689976	25.0000	24.42
*	134 Di-n-octylphthalate-d4	153	20.518	20.518	(1.000)	2437093	20.0000	
	73 Di-n-octylphthalate	149	20.536	20.536	(1.001)	2757540	25.0000	22.76

	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	20.994	20.994	(0.976)	2453791	25.0000	24.05
75	Benzo(k)fluoranthene	252	21.029	21.029	(0.977)	2251979	25.0000	21.79
187	Total Benzofluoranthenes	252	21.029	21.029	(0.977)	4407225	50.0000	45.56
76	Benzo(a)pyrene	252	21.441	21.441	(0.996)	2123182	25.0000	23.45
* 77	Perylene-d12	264	21.517	21.517	(1.000)	1639408	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	22.956	22.956	(1.067)	2439767	25.0000	25.10
79	Dibenzo(a,h)anthracene	278	22.974	22.974	(1.068)	1992017	25.0000	25.49
80	Benzo(g,h,i)perylene	276	23.338	23.338	(1.085)	2142379	25.0000	25.78
90	N-Nitrosodimethylamine	74	3.048	3.048	(0.391)	352693	25.0000	25.14
103	Pyridine	79	3.018	3.018	(0.387)	632641	25.0000	26.15
91	Aniline	93	7.360	7.360	(0.944)	829427	25.0000	23.92
105	1-methylnaphthalene	142	11.160	11.160	(1.134)	1311062	25.0000	24.56

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: 08171001.d
Lab Smp Id: CC0817
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100817.b/SW846100719.m
Misc Info: 10-

Calibration Date: 17-AUG-2010
Calibration Time: 10:52
Client Smp ID: CC0817
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	481605	35.10
27 Naphthalene-d8	1293412	646706	2586824	1689840	30.65
42 Acenaphthene-d10	785897	392948	1571794	1087401	38.36
59 Phenanthrene-d10	1313990	656995	2627980	1851340	40.89
69 Chrysene-d12	1155293	577646	2310586	1572429	36.11
134 Di-n-octylphthala	1825297	912648	3650594	2437093	33.52
77 Perylene-d12	1146289	573144	2292578	1639408	43.02

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.80	7.30	8.30	7.80	0.00
27 Naphthalene-d8	9.84	9.34	10.34	9.84	0.00
42 Acenaphthene-d10	12.69	12.19	13.19	12.69	0.00
59 Phenanthrene-d10	15.06	14.56	15.56	15.06	0.00
69 Chrysene-d12	19.37	18.87	19.87	19.37	0.00
134 Di-n-octylphthala	20.52	20.02	21.02	20.52	0.00
77 Perylene-d12	21.52	21.02	22.02	21.52	0.00

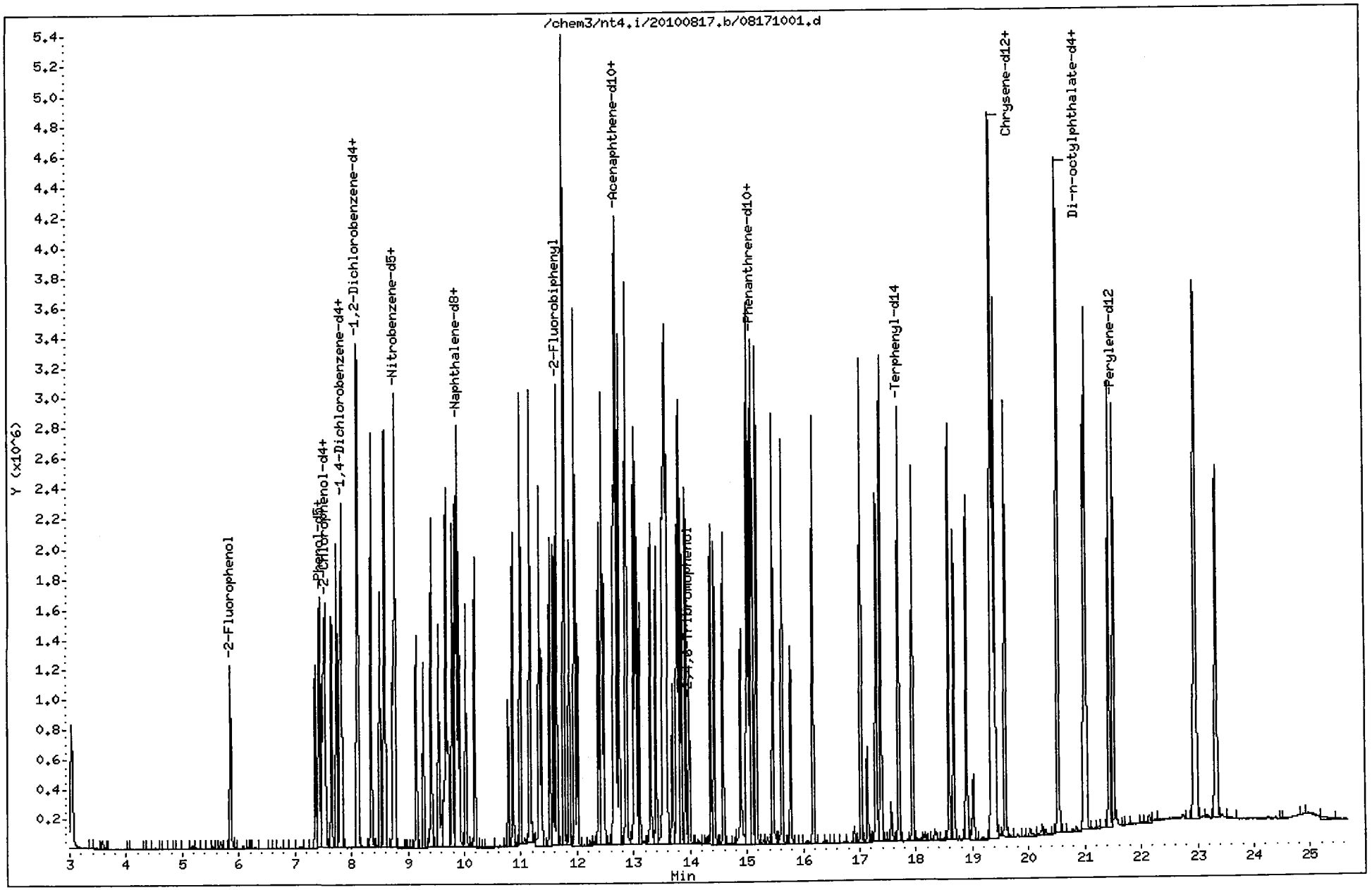
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem3/nt4.i/20100817.b/08171001.d
Date : 17-AUG-2010 10:52
Client ID: CC0817
Sample Info: CC0817

Instrument: nt4.i

Operator: JZ
Column diameter: 0.32

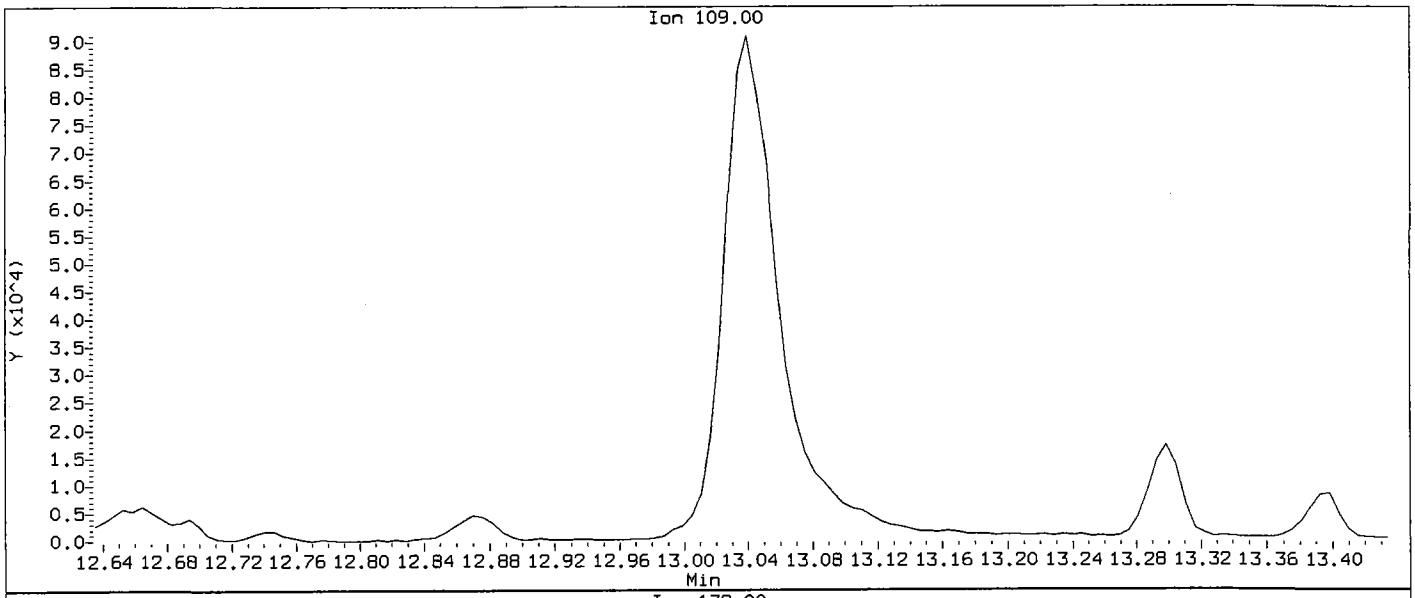
Column phase: ZB-5msi

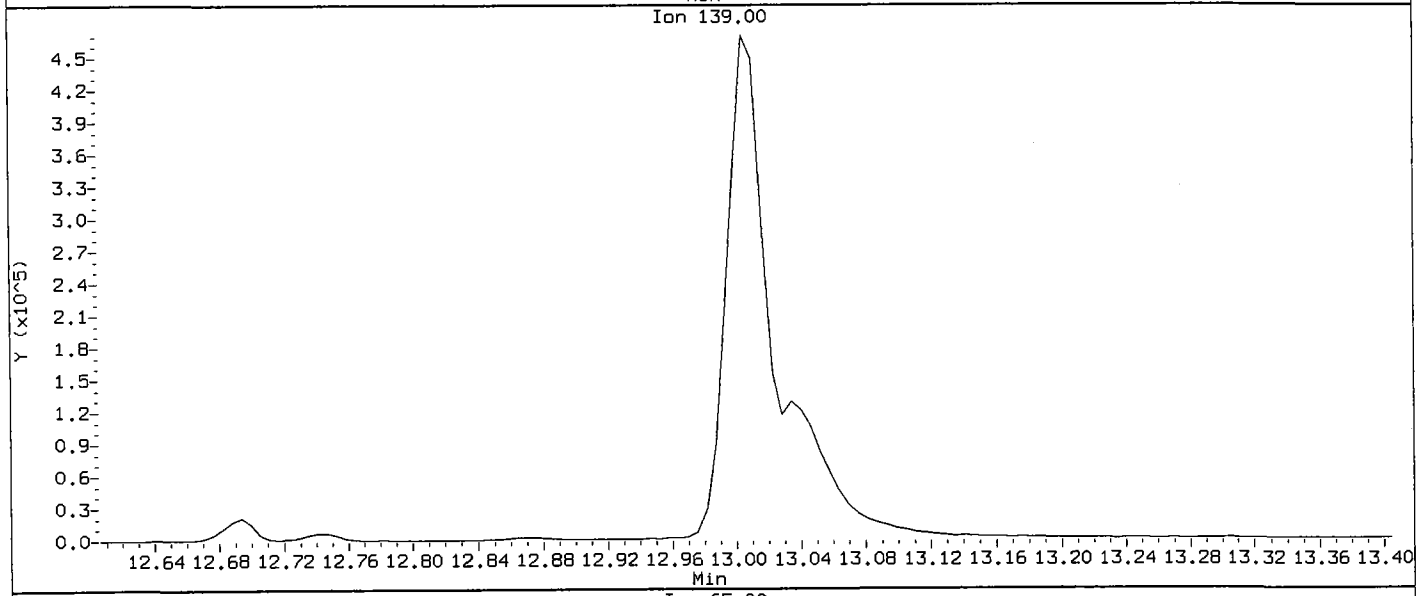


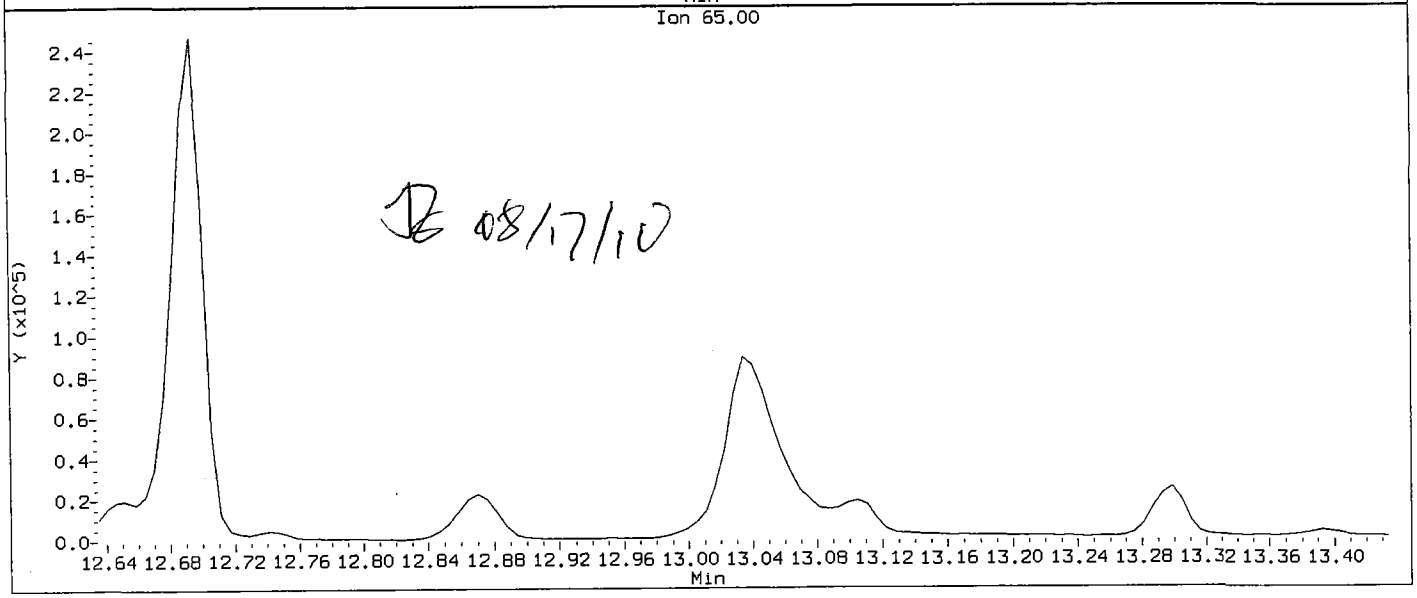
RG79:00667

Data File: /chem3/nt4.i/20100817.b/08171001.d
Injection Date: 17-AUG-2010 10:52
Instrument: nt4.i
Client Sample ID: CC0817

Compound: 4-Nitrophenol
CAS Number: 100-02-7





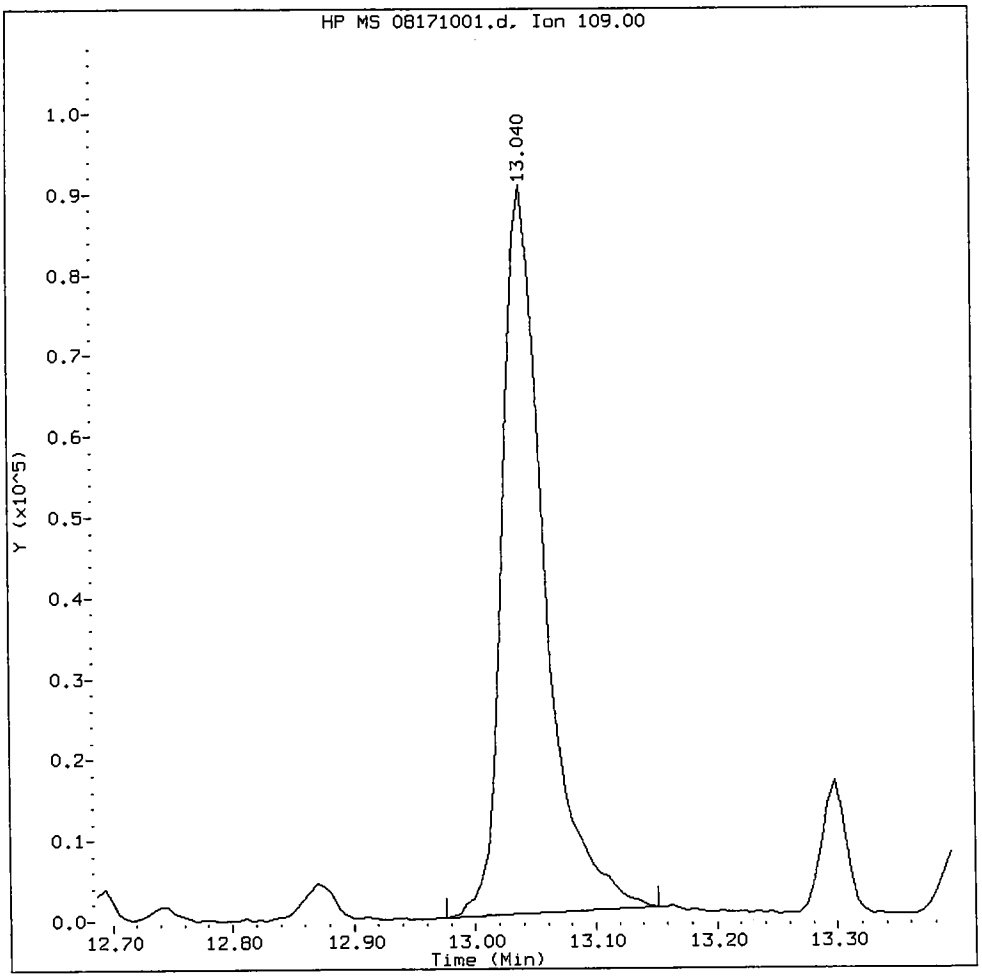


08/17/10

RG79 : 00668

CC0817, /chem3/nt4.i/20100817.b/08171001.d

4-Nitrophenol Amount: 22.40 Area: 218251



MANUAL INTEGRATION for 4-Nitrophenol

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: AB Date: 08/17/10

Data File: /chem3/nt4.i/20100817.b/tune.b/08171001.d

Date : 17-AUG-2010 10:52

Client ID: DFTPP0817

Instrument: nt4.i

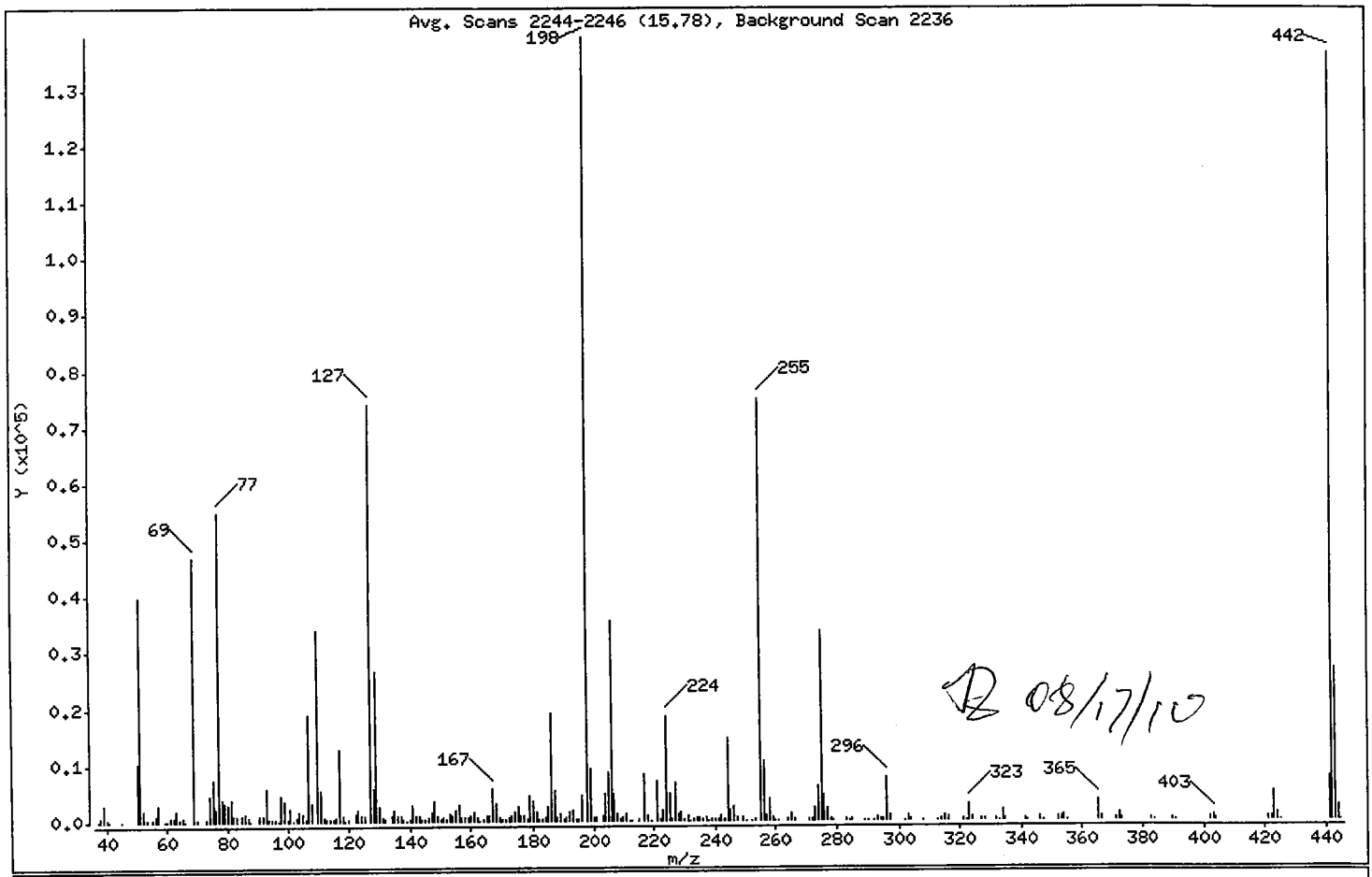
Sample Info: DFTPP0817

Operator: JZ

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	10.00 - 80.00% of mass 198	28.49
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	33.54
70	Less than 2.00% of mass 69	0.21 (0.62)
127	10.00 - 80.00% of mass 198	53.15
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.58
275	10.00 - 60.00% of mass 198	24.08
365	Greater than 1.00% of mass 198	2.49
441	0.01 - 24.00% of mass 442	5.53 (5.64)
442	50.00 - 200.00% of mass 198	97.94
443	15.00 - 24.00% of mass 442	19.25 (19.65)

Data File: /chem3/nt4.i/20100817.b/tune.b/08171001.d

Date : 17-AUG-2010 10:52

Client ID: DFTPP0817

Instrument: nt4.i

Sample Info: DFTPP0817

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: 08171001.d

Spectrum: Avg. Scans 2244-2246 (15.78), Background Scan 2236

Location of Maximum: 198.00

Number of points: 268

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	130	123.00	2065	193.00	1836	275.00	33600
38.00	569	124.00	846	194.00	308	276.00	4390
39.00	2771	125.00	914	195.00	221	277.00	2282
40.00	256	127.00	74160	196.00	4349	278.00	443
41.00	78	128.00	5672	198.00	139520	279.00	56
45.00	71	129.00	26528	199.00	9176	283.00	294
50.00	10374	130.00	2570	200.00	724	284.00	149
51.00	39744	131.00	512	201.00	791	285.00	432
52.00	1972	132.00	345	203.00	885	289.00	66
53.00	206	134.00	830	204.00	4658	290.00	55
55.00	161	135.00	1954	205.00	8524	292.00	61
56.00	1111	136.00	901	206.00	35512	293.00	645
57.00	2796	137.00	1105	207.00	4717	294.00	178
59.00	56	138.00	193	208.00	1142	295.00	196
60.00	51	139.00	3	209.00	417	296.00	7747
61.00	631	140.00	287	210.00	528	297.00	969
62.00	749	141.00	3025	211.00	1382	302.00	64
63.00	1836	142.00	1064	212.00	51	303.00	1000
64.00	312	143.00	845	213.00	84	304.00	338
65.00	749	144.00	218	215.00	389	308.00	64
66.00	55	145.00	275	217.00	8453	313.00	52
69.00	46792	146.00	685	218.00	1113	314.00	449
70.00	290	147.00	1614	219.00	73	315.00	958
73.00	393	148.00	3615	221.00	6966	316.00	539
74.00	4541	149.00	947	222.00	424	321.00	295
75.00	7337	150.00	370	223.00	1841	322.00	71
76.00	2207	151.00	522	224.00	18696	323.00	2834
77.00	54768	152.00	466	225.00	4920	324.00	509
78.00	3864	153.00	1162	226.00	289	327.00	394
79.00	3360	154.00	1047	227.00	6627	328.00	279
80.00	2790	155.00	1951	228.00	1126	332.00	295
81.00	3816	156.00	2772	229.00	1696	333.00	86
82.00	957	157.00	651	230.00	300	334.00	1812
83.00	921	158.00	699	231.00	843	335.00	418
85.00	995	159.00	484	232.00	144	341.00	305

Data File: /chem3/nt4.i/20100817.b/tune.b/08171001.d

Date : 17-AUG-2010 10:52

Client ID: DFTPP0817

Instrument: nt4.i

Sample Info: DFTPP0817

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

Data File: 08171001.d
Spectrum: Avg. Scans 2244-2246 (15.78), Background Scan 2236
Location of Maximum: 198.00
Number of points: 268

m/z	Y	m/z	Y	m/z	Y	m/z	Y
86.00	1145	160.00	998	233.00	167	342.00	116
87.00	591	161.00	1578	234.00	488	346.00	537
88.00	117	162.00	483	235.00	500	347.00	124
91.00	1061	163.00	122	236.00	433	352.00	781
92.00	1005	164.00	313	237.00	648	353.00	607
93.00	5646	165.00	949	238.00	55	354.00	892
94.00	254	166.00	850	239.00	291	355.00	122
95.00	271	167.00	5749	240.00	260	365.00	3473
96.00	205	168.00	3117	241.00	418	366.00	528
97.00	89	169.00	657	242.00	937	371.00	247
98.00	4494	170.00	407	243.00	404	372.00	1351
99.00	3560	171.00	281	244.00	14793	373.00	328
100.00	371	172.00	519	245.00	2049	383.00	346
101.00	2402	173.00	845	246.00	2507	384.00	134
102.00	130	174.00	1561	247.00	625	390.00	201
103.00	691	175.00	2611	249.00	539	391.00	50
104.00	1585	176.00	955	250.00	143	402.00	620
105.00	1400	177.00	1094	252.00	77	403.00	1001
106.00	181	178.00	166	253.00	410	404.00	276
107.00	18808	179.00	4583	255.00	75080	421.00	754
108.00	3162	180.00	3470	256.00	10666	422.00	617
110.00	33888	181.00	1724	257.00	802	423.00	5251
111.00	5308	182.00	360	258.00	3819	424.00	1211
112.00	635	183.00	253	259.00	535	425.00	59
113.00	349	184.00	492	260.00	130	441.00	7712
114.00	191	185.00	2414	261.00	119	442.00	136640
115.00	274	186.00	19184	264.00	174	443.00	26856
116.00	749	187.00	5428	265.00	1432	444.00	2415
117.00	12684	188.00	567	266.00	323	445.00	116
118.00	1072	189.00	1212	271.00	180		
119.00	97	190.00	206	272.00	251		
120.00	368	191.00	636	273.00	2327		
122.00	1365	192.00	1705	274.00	6248		

Data File: /chem3/nt4.i/20100817.b/tune.b/08171001.d

Date : 17-AUG-2010 10:52

Client ID: DFTPP0817

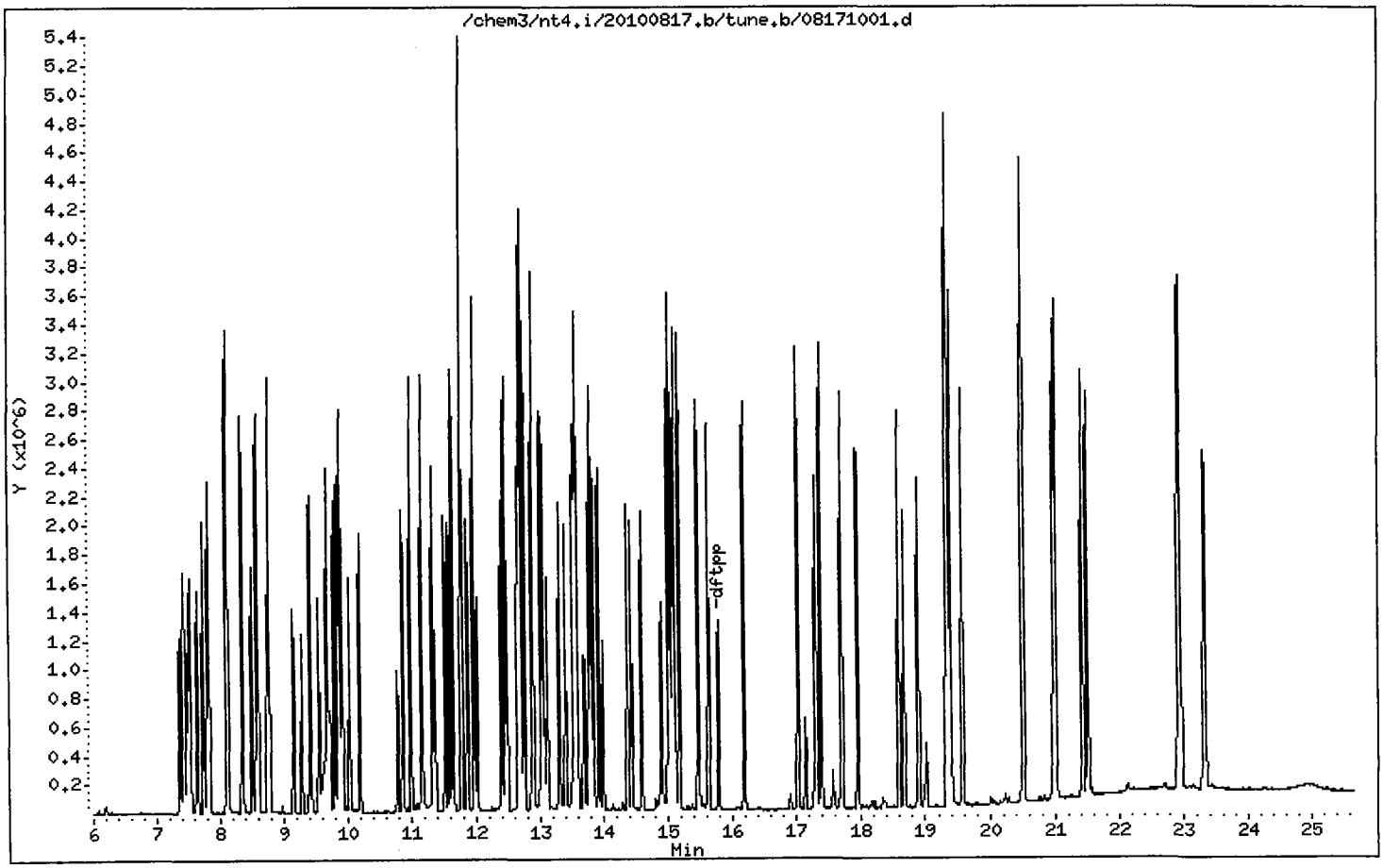
Instrument: nt4.i

Sample Info: DFTPP0817

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt4.i/20100817.b/ddt.b/08171001.d ARI ID: CC0817
Method: /chem3/nt4.i/20100817.b/ddt.b/sw846ddt.m Misc: 10-
Analysis Date: 17-AUG-2010 10:52 Instrument: nt4.i

COMPOUND	RT	AREA
Pentachlorophenol	14.891	249326
Benzidine	12.864	453210
4,4'-DDE	----	----
4,4'-DDD	18.198	13376
4,4'-DDT	18.674	639379

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

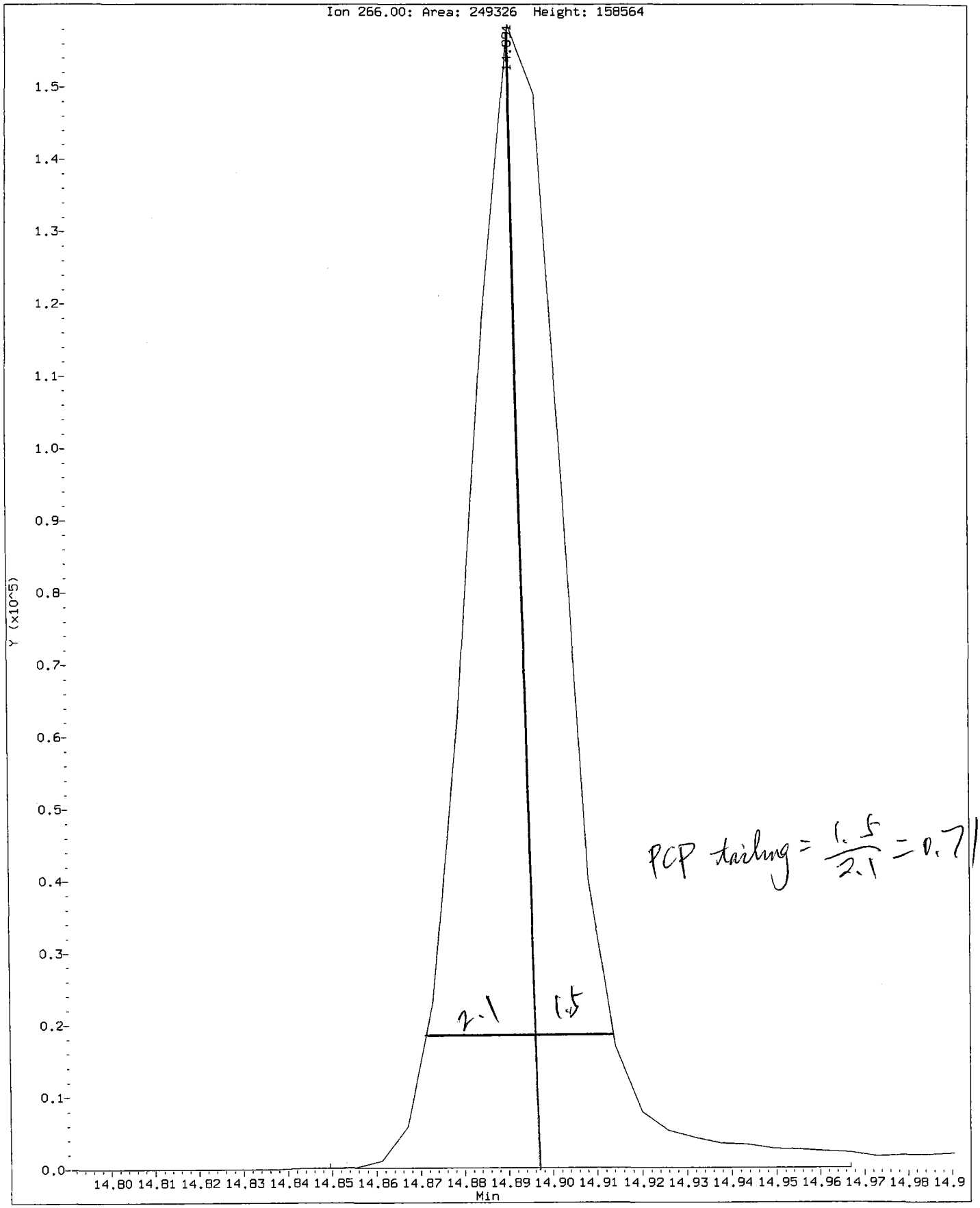
$$\text{DDT Percent Breakdown} = \frac{(0 + 13376) * 100}{(0 + 13376 + 639379)}$$

DDT Percent Breakdown = 2.0 %

08/17/10

Data File: /chem3/nt4.i/20100817.b/ddt.b/08171001.d
Injection Date: 17-AUG-2010 10:52
Instrument: nt4.i
Client Sample ID: CC0817

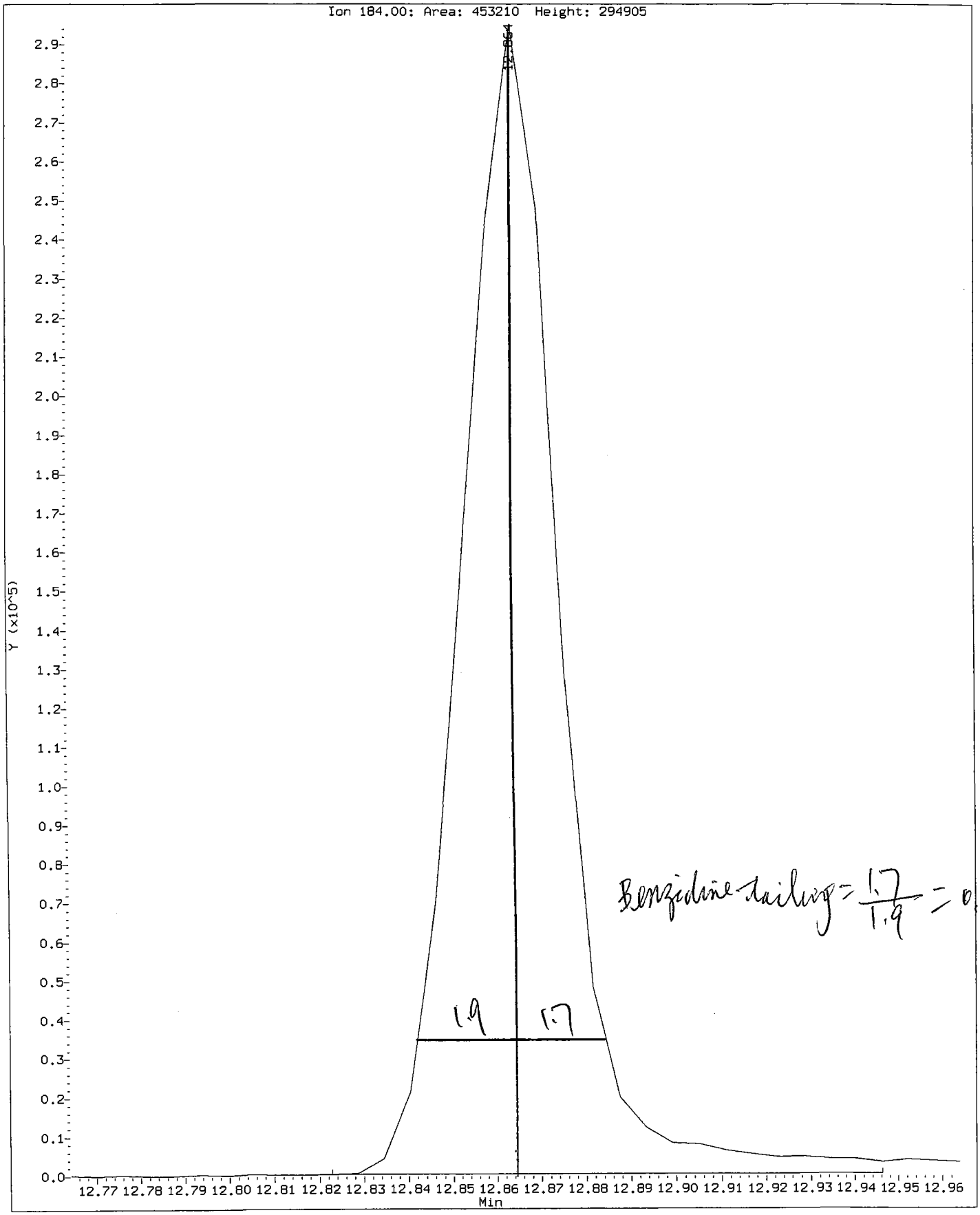
Compound: Pentachlorophenol
CAS Number: 87-86-5



PCP tailing = $\frac{1.5}{2.1} = 0.71$

Data File: /chem3/nt4.i/20100817.b/ddt.b/08171001.d
Injection Date: 17-AUG-2010 10:52
Instrument: nt4.i
Client Sample ID: CC0817

Compound: Benzidine
CAS Number:



Benzidine tailing = $\frac{1.7}{1.9} = 0.89$

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100817.b/08171013.d
Lab Smp Id: RG79MBS1 Client Smp ID: RG79MBS1
Inj Date : 17-AUG-2010 18:29
Operator : JZ Inst ID: nt4.i
Smp Info : RG79MBS1,
Misc Info : 10-18509
Comment : 1ul Injection
Method : /chem3/nt4.i/20100817.b/SW846100719.m
Meth Date : 18-Aug-2010 15:27 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 13 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

AZ 08/18/10

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	9.833	9.845	(1.000)	1308529	20.0000	
28 Naphthalene	128	Compound Not Detected.					
32 2-Methylnaphthalene	142	Compound Not Detected.					
105 1-methylnaphthalene	142	Compound Not Detected.					
$ 36 2-Fluorobiphenyl	172	11.631	11.636	(0.917)	843912	16.4000	328.0
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	12.688	12.694	(1.000)	840053	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	15.056	15.061	(1.000)	1391109	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)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	17.699	17.699	(0.914)	984963	21.3151	426.3
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	19.356	19.367	(1.000)	1193377	20.0000	
	71 Chrysene	228	Compound Not Detected.					
	187 Total Benzofluoranthenes	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	21.512	21.517	(1.000)	1172911	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: 08171013.d
Lab Smp Id: RG79MBS1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100817.b/SW846100719.m
Misc Info: 10-18509

Calibration Date: 17-AUG-2010
Calibration Time: 10:52
Client Smp ID: RG79MBS1
Level: LOW
Sample Type: Solid

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	1293412	646706	2586824	1308529	1.17
42 Acenaphthene-d10	785897	392948	1571794	840053	6.89
59 Phenanthrene-d10	1313990	656995	2627980	1391109	5.87
69 Chrysene-d12	1155293	577646	2310586	1193377	3.30
77 Perylene-d12	1146289	573144	2292578	1172911	2.32

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.84	9.34	10.34	9.83	-0.11
42 Acenaphthene-d10	12.69	12.19	13.19	12.69	-0.04
59 Phenanthrene-d10	15.06	14.56	15.56	15.06	-0.04
69 Chrysene-d12	19.37	18.87	19.87	19.36	-0.06
77 Perylene-d12	21.52	21.02	22.02	21.51	-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

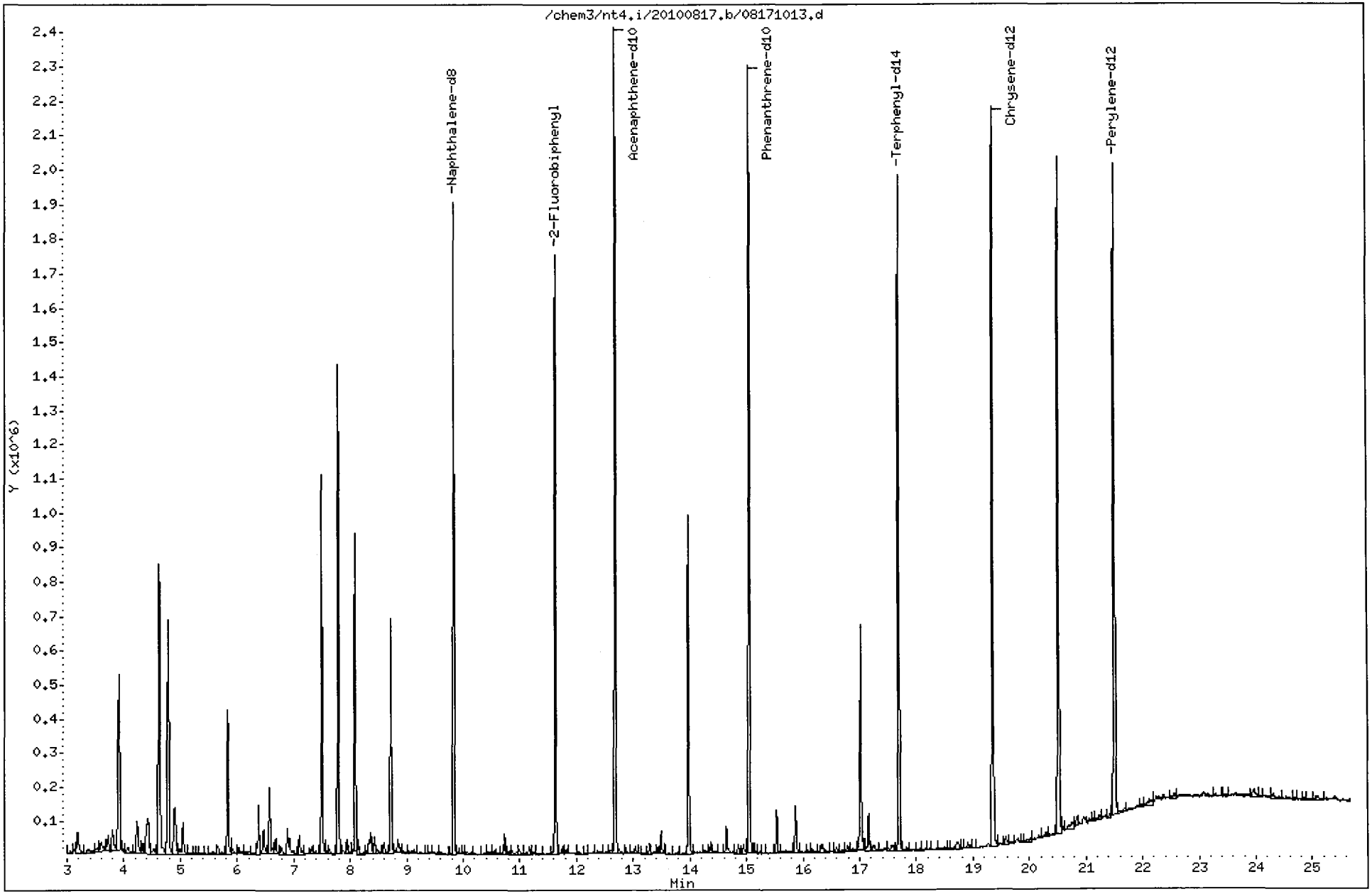
Client Name: Floyd/Snider
Client SDG: RG79
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG79MBS1
Client Smp ID: RG79MBS1
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: BLANK
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem3/nt4.i/20100817.b/SW846100719.m
Misc Info: 10-18509

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	500.0	328.0	65.60	34-100
$ 66 Terphenyl-d14	500.0	426.3	85.26	35-112

Data File: /chem3/nt4.i/20100817.b/08171013.d
Date : 17-AUG-2010 18:29
Client ID: RG79MBS1
Sample Info: RG79MBS1,
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt4.i
Operator: JZ
Column diameter: 0.32

RG79:20681



Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100817.b/08171014.d
Lab Smp Id: RG79LCSS1 Client Smp ID: RG79LCSS1
Inj Date : 17-AUG-2010 19:03
Operator : JZ Inst ID: nt4.i
Smp Info : RG79LCSS1,
Misc Info : 10-18509
Comment : 1ul Injection
Method : /chem3/nt4.i/20100817.b/SW846100719.m
Meth Date : 18-Aug-2010 15:13 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

08/19/10

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	9.831	9.845	(1.000)	1690628	20.0000	
28 Naphthalene	128	9.860	9.874	(1.003)	1096639	13.6706	273.4
32 2-Methylnaphthalene	142	10.982	10.990	(1.117)	757588	13.8966	277.9
105 1-methylnaphthalene	142	11.153	11.160	(1.134)	748767	14.0209	280.4
$ 36 2-Fluorobiphenyl	172	11.628	11.636	(0.917)	913423	14.7299	294.6
40 Acenaphthylene	152	12.433	12.441	(0.980)	1202426	14.4782	289.6
* 42 Acenaphthene-d10	164	12.686	12.694	(1.000)	1012338	20.0000	
44 Acenaphthene	153	12.733	12.746	(1.004)	754879	13.9607	279.2
46 Dibenzofuran	168	12.997	13.005	(1.025)	1148520	15.9348	318.7
49 Fluorene	166	13.549	13.563	(1.068)	986826	15.8242	316.5
* 59 Phenanthrene-d10	188	15.053	15.061	(1.000)	1748315	20.0000	
60 Phenanthrene	178	15.088	15.096	(1.002)	1508429	16.6550	333.1
61 Anthracene	178	15.159	15.173	(1.007)	1542855	16.6525	333.0
64 Fluoranthene	202	17.021	17.029	(1.131)	1692995	18.0416	360.8
65 Pyrene	202	17.374	17.381	(0.897)	1751380	18.3341	366.7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	17.697	17.699	(0.914)	1204434	20.6472	412.9
	68 Benzo(a)anthracene	228	19.336	19.338	(0.999)	1636863	18.5357	370.7
*	69 Chrysene-d12	240	19.359	19.367	(1.000)	1506491	20.0000	
	71 Chrysene	228	19.400	19.408	(1.002)	1576932	18.2448	364.9
	187 Total Benzofluoranthenes	252	21.022	21.029	(0.977)	3207359	37.7487	755.0
	76 Benzo(a)pyrene	252	21.433	21.441	(0.996)	1322750	16.6378	332.8
*	77 Perylene-d12	264	21.515	21.517	(1.000)	1439845	20.0000	
	78 Indeno(1,2,3-cd)pyrene	276	22.942	22.956	(1.066)	1464487	17.1548	343.1
	79 Dibenzo(a,h)anthracene	278	22.960	22.974	(1.067)	1228746	17.9041	358.1
	80 Benzo(g,h,i)perylene	276	23.324	23.338	(1.084)	1170834	16.0448	320.9

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 08171014.d
Lab Smp Id: RG79LCSS1
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100817.b/SW846100719.m
Misc Info: 10-18509

Calibration Date: 17-AUG-2010
Calibration Time: 10:52
Client Smp ID: RG79LCSS1
Level: LOW
Sample Type: Solid

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	1293412	646706	2586824	1690628	30.71
42 Acenaphthene-d10	785897	392948	1571794	1012338	28.81
59 Phenanthrene-d10	1313990	656995	2627980	1748315	33.05
69 Chrysene-d12	1155293	577646	2310586	1506491	30.40
77 Perylene-d12	1146289	573144	2292578	1439845	25.61

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.84	9.34	10.34	9.83	-0.14
42 Acenaphthene-d10	12.69	12.19	13.19	12.69	-0.06
59 Phenanthrene-d10	15.06	14.56	15.56	15.05	-0.05
69 Chrysene-d12	19.37	18.87	19.87	19.36	-0.04
77 Perylene-d12	21.52	21.02	22.02	21.52	-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: Floyd/Snider
Sample Matrix: SOLID
Lab Smp Id: RG79LCSS1
Level: LOW
Data Type: MS DATA
SpikeList File: pnaslcss.spk
Sublist File: pnas.sub
Method File: /chem3/nt4.i/20100817.b/SW846100719.m
Misc Info: 10-18509

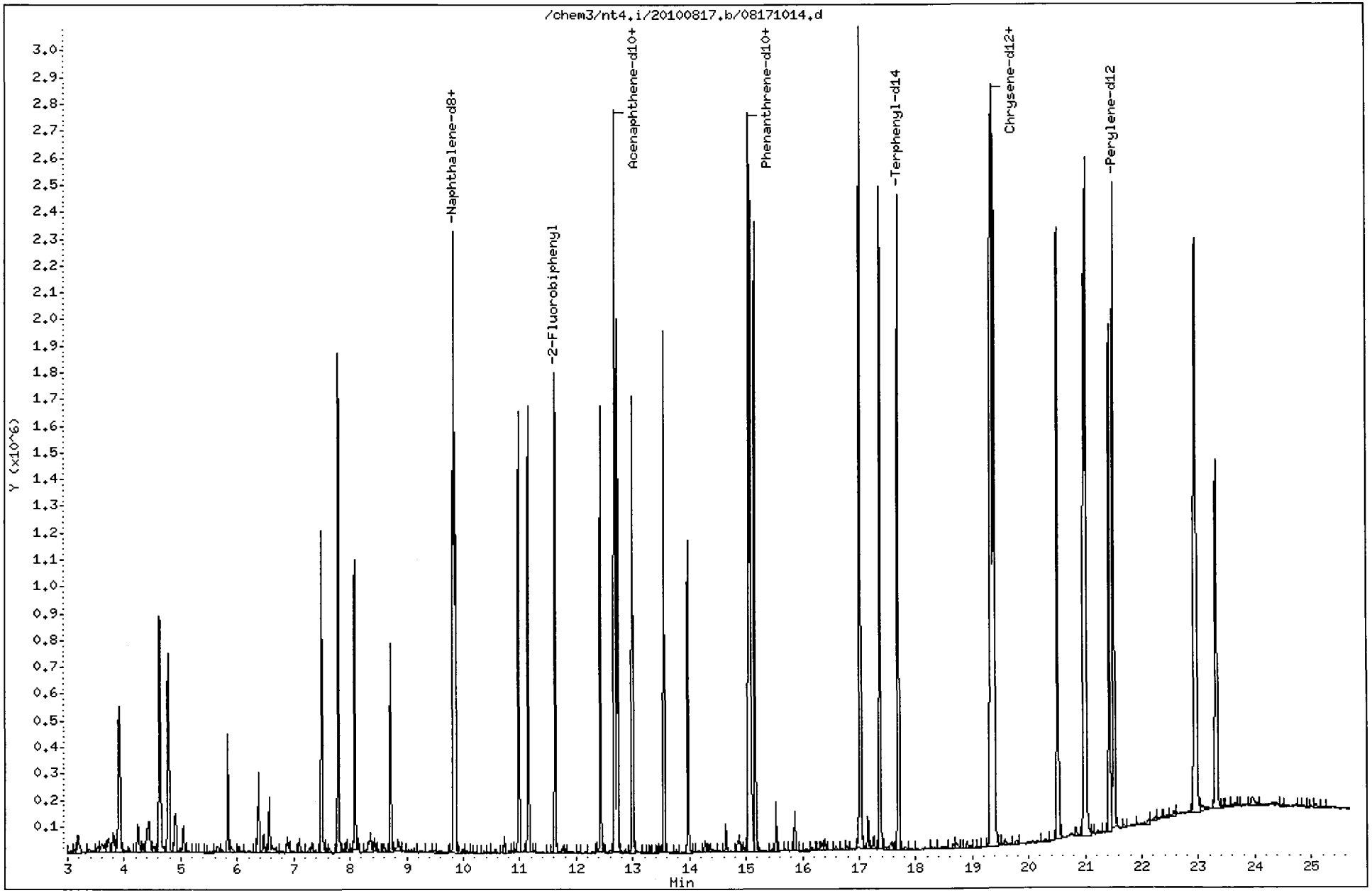
Client SDG: RG79
Fraction: SV
Client Smp ID: RG79LCSS1
Operator: JZ
SampleType: LCS
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
28	Naphthalene	500.0	273.4	54.68	37-100
32	2-Methylnaphthalen	500.0	277.9	55.59	43-101
105	1-methylnaphthalen	500.0	280.4	56.08	39-100
40	Acenaphthylene	500.0	289.6	57.91	44-100
44	Acenaphthene	500.0	279.2	55.84	41-100
46	Dibenzofuran	500.0	318.7	63.74	44-100
49	Fluorene	500.0	316.5	63.30	49-100
60	Phenanthrene	500.0	333.1	66.62	48-100
61	Anthracene	500.0	333.0	66.61	50-100
64	Fluoranthene	500.0	360.8	72.17	54-100
65	Pyrene	500.0	366.7	73.34	41-105
68	Benzo(a)anthracene	500.0	370.7	74.14	49-100
71	Chrysene	500.0	364.9	72.98	50-100
187	Total Benzofluoran	1000	755.0	75.50	30-160
76	Benzo(a)pyrene	500.0	332.8	66.55	50-100
78	Indeno(1,2,3-cd)py	500.0	343.1	68.62	33-101
79	Dibenzo(a,h)anthra	500.0	358.1	71.62	37-104
80	Benzo(g,h,i)peryle	500.0	320.9	64.18	33-107

	SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36	2-Fluorobiphenyl	500.0	294.6	58.92	34-100
$ 66	Terphenyl-d14	500.0	412.9	82.59	35-112

Data File: /chem3/nt4.i/20100817.b/08171014.d
Date : 17-AUG-2010 19:03
Client ID: RG79LCSS1
Sample Info: RG79LCSS1,
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt4.i
Operator: JZ
Column diameter: 0.32



RG79:006686

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100817.b/08171015.d
Lab Smp Id: RG79A Client Smp ID: PSB11-0-0.5-073010
Inj Date : 17-AUG-2010 19:36
Operator : JZ Inst ID: nt4.i
Smp Info : RG79A,3,
Misc Info : 10-18505
Comment : 1ul Injection
Method : /chem3/nt4.i/20100817.b/SW846100719.m
Meth Date : 18-Aug-2010 15:27 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 15
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

JZ 08/18/10

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	28.00000	Weight of sample extracted (g)
M	9.60000	% 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	9.832	9.845	(1.000)	1616787	20.0000	
	28 Naphthalene	128	Compound Not Detected.					
	32 2-Methylnaphthalene	142	Compound Not Detected.					
	105 1-methylnaphthalene	142	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	11.630	11.636	(0.917)	400885	6.74442	399.7
	40 Acenaphthylene	152	Compound Not Detected.					
*	42 Acenaphthene-d10	164	12.687	12.694	(1.000)	970349	20.0000	
	44 Acenaphthene	153	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
*	59 Phenanthrene-d10	188	15.054	15.061	(1.000)	1615641	20.0000	
	60 Phenanthrene	178	15.084	15.096	(1.002)	46717	0.55817	33.08
	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)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	17.698	17.699	(0.914)	437863	7.55771	447.9
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	19.366	19.367	(1.000)	1496212	20.0000	
	71 Chrysene	228	19.390	19.408	(1.001)	75529	0.87986	52.14
	187 Total Benzofluoranthenes	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	21.528	21.517	(1.000)	973412	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: 08171015.d
Lab Smp Id: RG79A
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100817.b/SW846100719.m
Misc Info: 10-18505

Calibration Date: 17-AUG-2010
Calibration Time: 10:52
Client Smp ID: PSB11-0-0.5-0730
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	1293412	646706	2586824	1616787	25.00
42 Acenaphthene-d10	785897	392948	1571794	970349	23.47
59 Phenanthrene-d10	1313990	656995	2627980	1615641	22.96
69 Chrysene-d12	1155293	577646	2310586	1496212	29.51
77 Perylene-d12	1146289	573144	2292578	973412	-15.08

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.84	9.34	10.34	9.83	-0.13
42 Acenaphthene-d10	12.69	12.19	13.19	12.69	-0.05
59 Phenanthrene-d10	15.06	14.56	15.56	15.05	-0.04
69 Chrysene-d12	19.37	18.87	19.87	19.37	0.00
77 Perylene-d12	21.52	21.02	22.02	21.53	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.

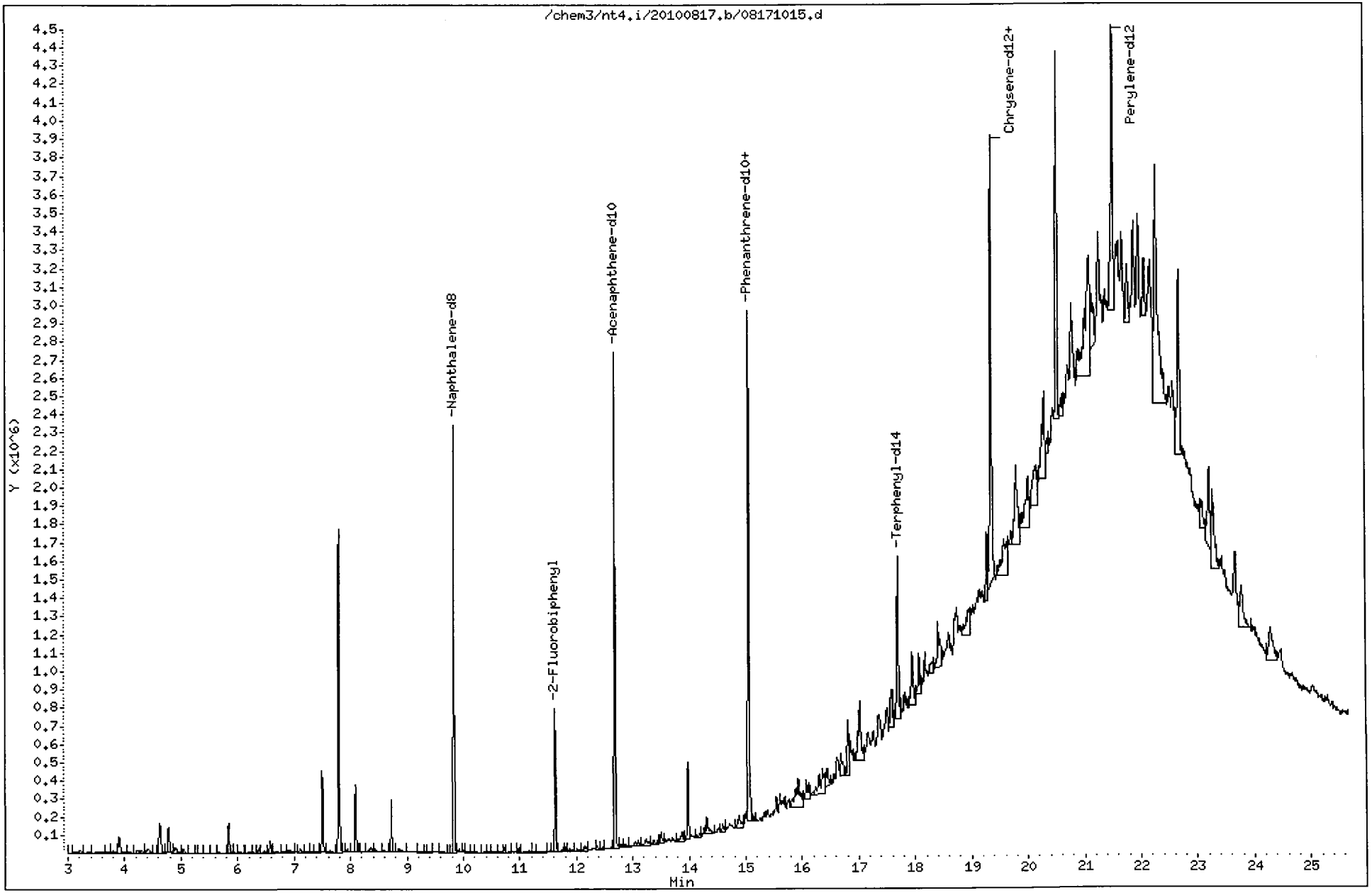
RECOVERY REPORT

Client Name: Floyd/Snider
Client SDG: RG79
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG79A
Client Smp ID: PSB11-0-0.5-073010
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem3/nt4.i/20100817.b/SW846100719.m
Misc Info: 10-18505

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	493.8	399.7	80.93	34-100
$ 66 Terphenyl-d14	493.8	447.9	90.69	35-112

Data File: /chem3/nt4.i/20100817.b/08171015.d
Date : 17-AUG-2010 19:36
Client ID: PSB11-0-0.5-073010
Sample Info: RG79A,3,
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt4.i
Operator: JZ
Column diameter: 0.32



RG79:09691

Data File: /chem3/nt4.i/20100817.b/08171015.d

Date : 17-AUG-2010 19:36

Client ID: PSB11-0-0.5-073010

Instrument: nt4.i

Sample Info: RG79A,3,

Volume Injected (uL): 1.0

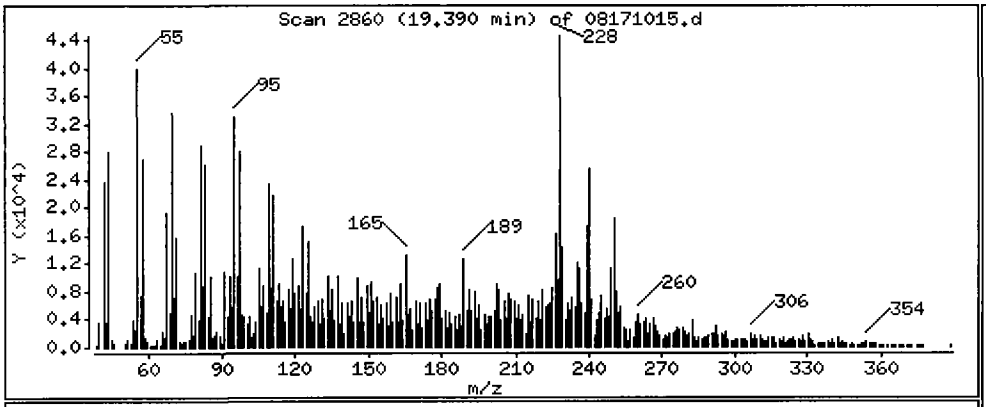
Operator: JZ

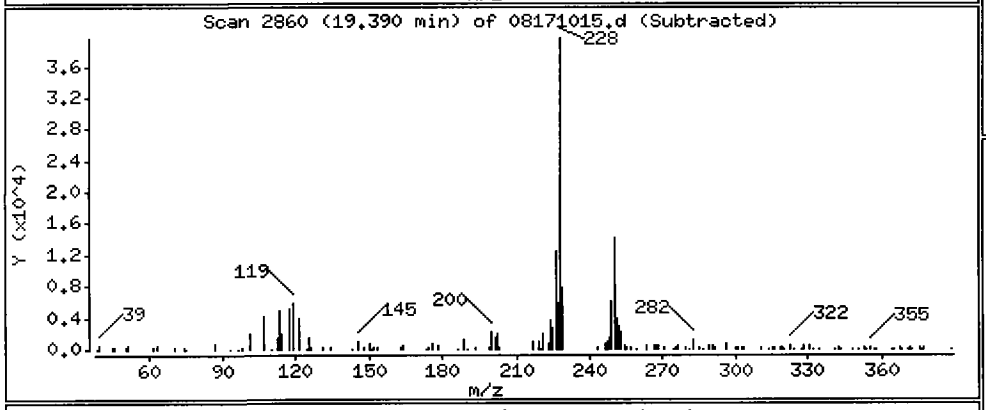
Column phase: ZB-5msi

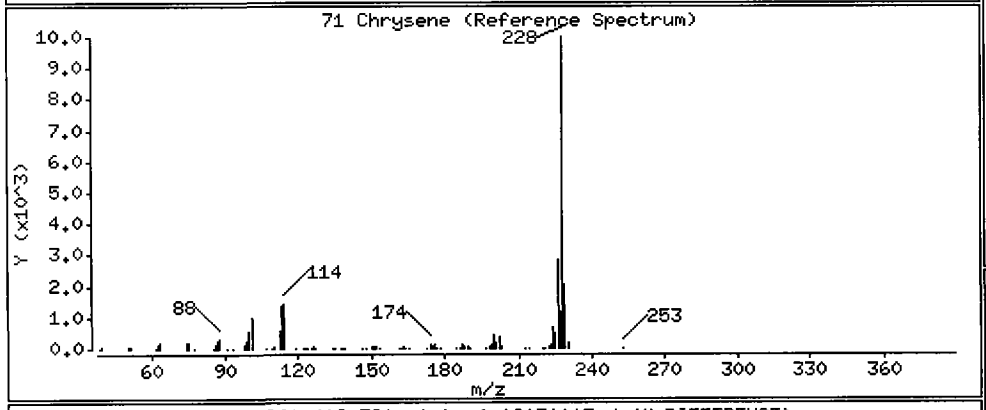
Column diameter: 0.32

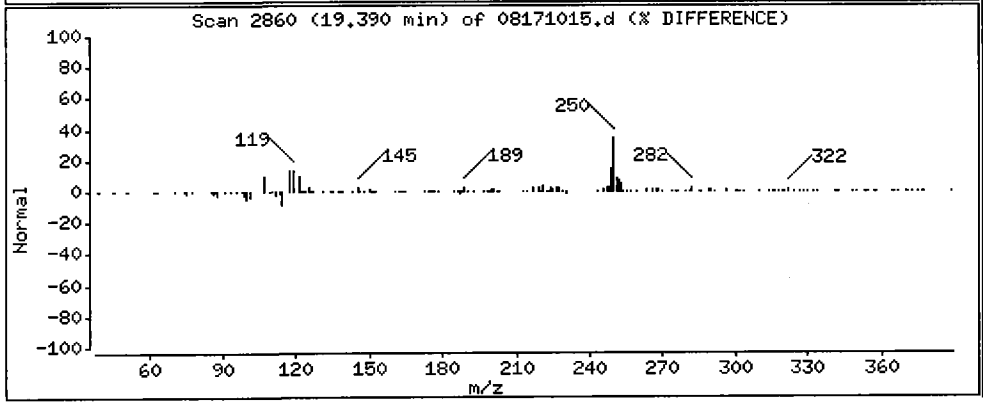
71 Chrysene

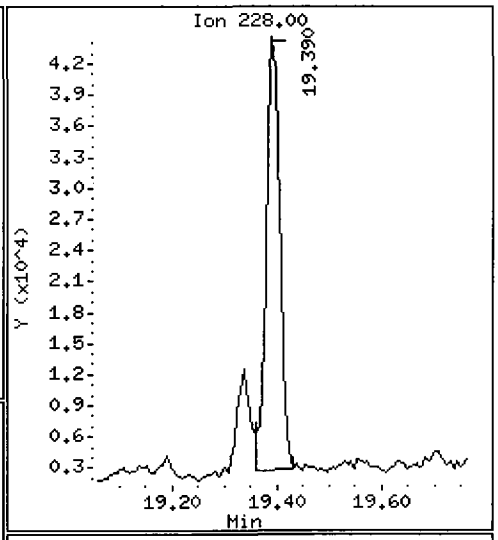
Concentration: 52.14 ug/kg

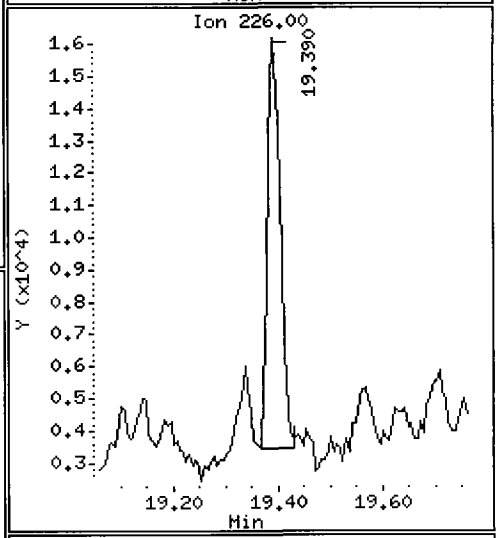


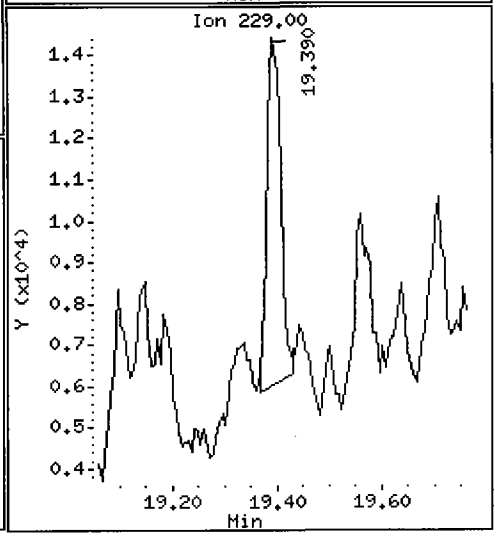












Analytical Resources Inc.: Organics Instrument Log

NT-4 Serial No.: GC = US00010849; MS = US72821113

Date: 8/18/10 Analysis: 8270 Analyst: AB

GC Program: ABN Column No: 172294 Column Type: ZB-5MSi

Instrument Tune (.U or .CT.): 100716 EM Voltage: 1247

Calibration File: 08181001 Curve Date: 7/19/10

IS/SS	Ical/Ccal	LCS/ICV
17-2-1	17473, 733-1	
	1736-1, 1736-1	
	15019, 1753-5	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt4.i/20100818.b

	Time	Filename	LabID	ClientId	DF										
1	1226	08181001.d	CC0818	CC0818	1	7.74	532660	9.77	1838372	12.62	1067021	14.99	1785358	19.29	1511136	21.44	1605196	20.45	2309854
2	1259	08181002.d	RG79E	PSB11-4-6-07	1	9.77	1508637	12.62	906754	14.98	1477381	19.29	1363509	21.46	1276664				
3	1333	08181003.d	RG79EMS	PSB11-4-6-07	1	9.77	1644357	12.62	1020181	14.99	1682426	19.31	1482177	21.47	1170751				
4	1439	08181004.d	RG79EMSD	PSB11-4-6-07	1	9.77	1633426	12.62	1019641	14.99	1774095	19.31	1562988	21.48	1131662				
5	1546	08181005.d	RG79G 3X	PSB11-11-13-	3	9.77	1463129	12.62	884984	14.99	1512318	19.30	1355731	21.47	807503				
6	1659	08181006.d	RG79H	PSB11-14-16-	1	9.77	1432018	12.62	864072	15.00	1474359	19.32	1154755	21.49	622609				
7	1807	08181007.d	RG79K	PSB15-0-0.5-	1	9.77	1443686	12.62	870485	14.99	1495284	19.30	1374299	21.46	883544				
8	1915	08181008.d	RG79L	PSB15-1.5-2-	1	9.77	1403747	12.62	878416	14.98	1479409	19.28	1318929	21.44	1068469				
9	2017	08181009.d	RG79M	PSB15-2-4-07	1	9.77	1493449	12.62	861798	14.98	1438009	19.28	1366722	21.44	1058341				
10	2121	08181010.d	RG79N	PSB15-4-6-07	1	9.77	1274710	12.62	813181	14.98	1374902	19.28	1213654	21.44	1012667				
11	2223	08181011.d	RG79P	PSB15-17-19-	1	9.77	1530271	12.62	898734	14.98	1469284	19.28	1402247	21.43	1133585				
12	2324	08181012.d	RG79Q	PSB15-17-19-	1	9.77	1518235	12.62	879986	14.98	1442172	19.28	1397852	21.44	1137427				
13	0026	08181013.d	RG79O 5X conf	PSB15-13-15-	1	9.77	1363179	12.62	800730	14.98	1455128	19.29	1343329	21.45	794691				

NR

AB 08/19/10

Maintenance / Comments

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.

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/nt4.i/20100818.b

ARI Job No.: CC08 Method: SW846100719.m Instrument: nt4.i Date: 18-AUG-2010

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1226	08181001.d	CC0818	CC0818	1	Benzoic acid,
1259	08181002.d	RG79E	PSB11-4-6-	1	NO MANUAL INTEGRATION
1333	08181003.d	RG79EMS	PSB11-4-6-	1	NO MANUAL INTEGRATION
1439	08181004.d	RG79EMSD	PSB11-4-6-	1	NO MANUAL INTEGRATION
1546	08181005.d	RG79G	PSB11-11-1	3	NO MANUAL INTEGRATION
1659	08181006.d	RG79H	PSB11-14-1	1	NO MANUAL INTEGRATION
1807	08181007.d	RG79K	PSB15-0-0.	1	Dibenzo(a,h)anthracene,
1915	08181008.d	RG79L	PSB15-1.5-	1	NO MANUAL INTEGRATION
2017	08181009.d	RG79M	PSB15-2-4-	1	NO MANUAL INTEGRATION
2121	08181010.d	RG79N	PSB15-4-6-	1	NO MANUAL INTEGRATION
2223	08181011.d	RG79P	PSB15-17-1	1	NO MANUAL INTEGRATION
2324	08181012.d	RG79Q	PSB15-17-1	1	NO MANUAL INTEGRATION
0026	08181013.d	RG79O	PSB15-13-1	1	NO MANUAL INTEGRATION

08/19/10

Sent VR

RSJ 09/09/10

Q-FLAG SUMMARY FOR DATABATCH - /chem3/nt4.i/20100818.b

Instrument: nt4.i Date: 18-AUG-2010 Method: SW846100719.m

INITIAL CAL: 19-JUL-2010

Compound	%RSD or R^2
NO Q-FLAGS	

AZ 08/18/10

CONTINUING CAL: 18-AUG-2010

Compound	%D
Hexachlorocyclopentadiene	-27.9
2,4-Dinitrophenol	-25.0
Pentachlorophenol	-29.5

NC

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i
Lab File ID: 08181001.d
Analysis Type:
Lab Sample ID: CC0818
Method: /chem3/nt4.i/20100818.b/SW846100719.m

Injection Date: 18-AUG-2010 12:26
Init. Cal. Date(s): 19-JUL-2010 19-JUL-2010
Init. Cal. Times: 16:18 19:48
Quant Type: ISTD

12 08/13/10

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 2-Fluorophenol	1.08371	0.99503	0.99503	0.010	-8.18296	20.00000	Averaged	
$ 2 Phenol-d5	1.06604	1.07563	1.07563	0.010	0.89884	20.00000	Averaged	
3 Phenol	1.37947	1.25583	1.25583	0.100	-8.96336	20.00000	Averaged	
$ 5 2-Chlorophenol-d4	1.14386	1.08715	1.08715	0.010	-4.95761	20.00000	Averaged	
4 Bis(2-Chloroethyl)ether	1.02875	1.00112	1.00112	0.700	-2.68569	20.00000	Averaged	
6 2-Chlorophenol	1.31278	1.22291	1.22291	0.800	-6.84578	20.00000	Averaged	
7 1,3-Dichlorobenzene	1.49159	1.39057	1.39057	0.010	-6.77255	20.00000	Averaged	
9 1,4-Dichlorobenzene	1.50653	1.39664	1.39664	0.010	-7.29473	20.00000	Averaged	
$ 10 1,2-Dichlorobenzene-d4	0.85327	0.76225	0.76225	0.010	-10.66765	20.00000	Averaged	
12 1,2-Dichlorobenzene	1.40311	1.29376	1.29376	0.010	-7.79341	20.00000	Averaged	
11 Benzyl alcohol	0.78176	0.72090	0.72090	0.010	-7.78550	20.00000	Averaged	
14 2,2'-oxybis(1-Chloropropane	0.96702	0.99238	0.99238	0.010	2.62201	20.00000	Averaged	
13 2-Methylphenol	1.05383	1.00892	1.00892	0.700	-4.26170	20.00000	Averaged	
17 Hexachloroethane	0.55799	0.50091	0.50091	0.300	-10.22993	20.00000	Averaged	
16 N-Nitroso-di-n-propylamine	0.72131	0.70377	0.70377	0.500	-2.43212	20.00000	Averaged	
15 4-Methylphenol	1.09383	1.03721	1.03721	0.600	-5.17656	20.00000	Averaged	
$ 18 Nitrobenzene-d5	0.30955	0.31452	0.31452	0.010	1.60725	20.00000	Averaged	
19 Nitrobenzene	0.30648	0.30432	0.30432	0.200	-0.70569	20.00000	Averaged	
20 Isophorone	0.50898	0.50328	0.50328	0.300	-1.11925	20.00000	Averaged	
21 2-Nitrophenol	0.19148	0.19940	0.19940	0.100	4.13740	20.00000	Averaged	
22 2,4-Dimethylphenol	0.34090	0.32735	0.32735	0.200	-3.97519	20.00000	Averaged	
23 Bis(2-Chloroethoxy)methane	0.35475	0.36588	0.36588	0.050	3.13757	20.00000	Averaged	
24 Benzoic acid	42.88940	50.00000	0.23517	0.010	-14.22120	20.00000	Linear	
25 2,4-Dichlorophenol	0.29949	0.29228	0.29228	0.100	-2.40978	20.00000	Averaged	
26 1,2,4-Trichlorobenzene	0.33353	0.31264	0.31264	0.010	-6.26307	20.00000	Averaged	
28 Naphthalene	0.94898	0.90406	0.90406	0.100	-4.73409	20.00000	Averaged	
29 4-Chloroaniline	0.37840	0.36242	0.36242	0.010	-4.22329	20.00000	Averaged	
30 Hexachlorobutadiene	0.18923	0.16767	0.16767	0.010	-11.39475	20.00000	Averaged	
31 4-Chloro-3-methylphenol	0.27464	0.27714	0.27714	0.200	0.90915	20.00000	Averaged	
32 2-Methylnaphthalene	0.64492	0.59569	0.59569	0.300	-7.63311	20.00000	Averaged	
33 Hexachlorocyclopentadiene	0.29263	0.21098	0.21098	0.001	-27.90109	20.00000	Averaged	<-
34 2,4,6-Trichlorophenol	0.36003	0.34554	0.34554	0.200	-4.02434	20.00000	Averaged	
35 2,4,5-Trichlorophenol	0.36654	0.36861	0.36861	0.200	0.56568	20.00000	Averaged	
$ 36 2-Fluorobiphenyl	1.22512	1.11073	1.11073	0.010	-9.33671	20.00000	Averaged	
37 2-Chloronaphthalene	1.08775	0.99538	0.99538	0.700	-8.49234	20.00000	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i Injection Date: 18-AUG-2010 12:26
Lab File ID: 08181001.d Init. Cal. Date(s): 19-JUL-2010 19-JUL-2010
Analysis Type: Init. Cal. Times: 16:18 19:48
Lab Sample ID: CC0818 Quant Type: ISTD
Method: /chem3/nt4.i/20100818.b/SW846100719.m

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
38 2-Nitroaniline	0.21001	0.24977	0.24977	0.010	18.93032	20.00000	Averaged	
39 Dimethylphthalate	1.27768	1.19952	1.19952	0.010	-6.11759	20.00000	Averaged	
40 Acenaphthylene	1.64077	1.57594	1.57594	0.900	-3.95092	20.00000	Averaged	
41 2,6-Dinitrotoluene	0.28751	0.30000	0.30000	0.100	4.34668	20.00000	Averaged	
43 3-Nitroaniline	0.25351	0.25465	0.25465	0.010	0.45083	20.00000	Averaged	
44 Acenaphthene	1.06825	1.00387	1.00387	0.100	-6.02702	20.00000	Averaged	
45 2,4-Dinitrophenol	37.47594	50.00000	0.12455	0.030	-25.04812	20.00000	Quadratic	<-
46 Dibenzofuran	1.42396	1.34306	1.34306	0.800	-5.68141	20.00000	Averaged	
47 4-Nitrophenol	0.17920	0.15916	0.15916	0.010	-11.18353	20.00000	Averaged	
48 2,4-Dinitrotoluene	0.37910	0.39182	0.39182	0.200	3.35567	20.00000	Averaged	
50 Diethylphthalate	1.32169	1.19671	1.19671	0.010	-9.45558	20.00000	Averaged	
49 Fluorene	1.23204	1.15167	1.15167	0.100	-6.52314	20.00000	Averaged	
51 4-Chlorophenyl-phenylether	0.59756	0.56729	0.56729	0.100	-5.06588	20.00000	Averaged	
52 4-Nitroaniline	0.27464	0.27701	0.27701	0.010	0.86254	20.00000	Averaged	
53 4,6-Dinitro-2-methylphenol	0.13800	0.12515	0.12515	0.001	-9.31355	20.00000	Averaged	
54 N-Nitrosodiphenylamine	0.56415	0.52968	0.52968	0.010	-6.11012	20.00000	Averaged	
$ 55 2,4,6-Tribromophenol	0.14302	0.14477	0.14477	0.010	1.22391	20.00000	Averaged	
56 4-Bromophenyl-phenylether	0.20445	0.19154	0.19154	0.100	-6.31277	20.00000	Averaged	
57 Hexachlorobenzene	0.20941	0.19052	0.19052	0.100	-9.02190	20.00000	Averaged	
58 Pentachlorophenol	0.14268	0.10066	0.10066	0.010	-29.45144	20.00000	Averaged	<-
60 Phenanthrene	1.03607	0.92599	0.92599	0.700	-10.62512	20.00000	Averaged	
61 Anthracene	1.05988	0.96230	0.96230	0.700	-9.20677	20.00000	Averaged	
62 Carbazole	0.96311	0.85518	0.85518	0.010	-11.20658	20.00000	Averaged	
63 Di-n-butylphthalate	1.22802	1.14350	1.14350	0.010	-6.88255	20.00000	Averaged	
64 Fluoranthene	1.07347	1.02320	1.02320	0.600	-4.68315	20.00000	Averaged	
65 Pyrene	1.26819	1.24749	1.24749	0.600	-1.63221	20.00000	Averaged	
$ 66 Terphenyl-d14	0.77444	0.74092	0.74092	0.010	-4.32703	20.00000	Averaged	
67 Butylbenzylphthalate	0.64359	0.64912	0.64912	0.010	0.85822	20.00000	Averaged	
68 Benzo(a)anthracene	1.17238	1.11241	1.11241	0.800	-5.11499	20.00000	Averaged	
70 3,3'-Dichlorobenzidine	0.37917	0.37753	0.37753	0.010	-0.43478	20.00000	Averaged	
71 Chrysene	1.14746	1.08500	1.08500	0.700	-5.44305	20.00000	Averaged	
72 bis(2-Ethylhexyl)phthalate	0.56782	0.57723	0.57723	0.010	1.65671	20.00000	Averaged	
73 Di-n-octylphthalate	0.99436	0.90682	0.90682	0.010	-8.80381	20.00000	Averaged	
74 Benzo(b)fluoranthene	1.24491	1.19702	1.19702	0.700	-3.84657	20.00000	Averaged	
75 Benzo(k)fluoranthene	1.26106	1.08008	1.08008	0.700	-14.35161	20.00000	Averaged	

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt4.i Injection Date: 18-AUG-2010 12:26
Lab File ID: 08181001.d Init. Cal. Date(s): 19-JUL-2010 19-JUL-2010
Analysis Type: Init. Cal. Times: 16:18 19:48
Lab Sample ID: CC0818 Quant Type: ISTD
Method: /chem3/nt4.i/20100818.b/SW846100719.m

COMPOUND	RRF / AMOUNT	RF25	CCAL RRF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
187 Total Benzofluoranthenes	1.18021	1.06645	1.06645	0.010	-9.63924	20.00000	Averaged
76 Benzo(a)pyrene	1.10432	1.03509	1.03509	0.700	-6.26931	20.00000	Averaged
78 Indeno(1,2,3-cd)pyrene	1.18581	1.17428	1.17428	0.500	-0.97216	20.00000	Averaged
79 Dibenzo(a,h)anthracene	0.95329	0.96440	0.96440	0.400	1.16541	20.00000	Averaged
80 Benzo(g,h,i)perylene	1.01362	1.02224	1.02224	0.500	0.85035	20.00000	Averaged
90 N-Nitrosodimethylamine	0.58263	0.54335	0.54335	0.010	-6.74111	20.00000	Averaged
103 Pyridine	1.00478	0.96336	0.96336	0.010	-4.12233	20.00000	Averaged
91 Aniline	1.43987	1.34714	1.34714	0.010	-6.44017	20.00000	Averaged
105 1-methylnaphthalene	0.63176	0.58322	0.58322	0.010	-7.68345	20.00000	Averaged

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100818.b/08181001.d
Lab Smp Id: CC0818 Client Smp ID: CC0818
Inj Date : 18-AUG-2010 12:26
Operator : JZ Inst ID: nt4.i
Smp Info : CC0818
Misc Info : 10-
Comment : 1ul Injection
Method : /chem3/nt4.i/20100818.b/SW846100719.m
Meth Date : 18-Aug-2010 15:52 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICALS.sub
Target Version: 3.50

JZ 08/15/10

AMOUNTS

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	5.780	5.780	(0.747)	662519	25.0000	22.95
$	2 Phenol-d5	99	7.354	7.354	(0.951)	716179	25.0000	25.22
	3 Phenol	94	7.372	7.372	(0.953)	836160	25.0000	22.76
$	5 2-Chlorophenol-d4	132	7.442	7.442	(0.962)	723852	25.0000	23.76
	4 Bis(2-Chloroethyl)ether	93	7.413	7.413	(0.958)	666573	25.0000	24.33
	6 2-Chlorophenol	128	7.466	7.466	(0.965)	814247	25.0000	23.29
	7 1,3-Dichlorobenzene	146	7.672	7.672	(0.992)	925876	25.0000	23.31
*	8 1,4-Dichlorobenzene-d4	152	7.736	7.736	(1.000)	532660	20.0000	
	9 1,4-Dichlorobenzene	146	7.760	7.760	(1.003)	929916	25.0000	23.18
$	10 1,2-Dichlorobenzene-d4	152	8.030	8.030	(1.038)	507522	25.0000	22.33
	12 1,2-Dichlorobenzene	146	8.053	8.053	(1.041)	861416	25.0000	23.05
	11 Benzyl alcohol	108	8.036	8.036	(1.039)	479993	25.0000	23.05
	14 2,2'-oxybis(1-Chloropropane)	45	8.283	8.283	(1.071)	660749	25.0000	25.66
	13 2-Methylphenol	108	8.288	8.288	(1.071)	671763	25.0000	23.93
	17 Hexachloroethane	117	8.535	8.535	(1.103)	333519	25.0000	22.44
	16 N-Nitroso-di-n-propylamine	70	8.506	8.506	(1.099)	468585	25.0000	24.39
	15 4-Methylphenol	108	8.523	8.523	(1.102)	690601	25.0000	23.71
$	18 Nitrobenzene-d5	82	8.670	8.670	(0.887)	722759	25.0000	25.40
	19 Nitrobenzene	77	8.700	8.700	(0.890)	699306	25.0000	24.82
	20 Isophorone	82	9.081	9.081	(0.929)	1156516	25.0000	24.72
	21 2-Nitrophenol	139	9.211	9.211	(0.942)	458217	25.0000	26.03
	22 2,4-Dimethylphenol	107	9.352	9.352	(0.957)	752243	25.0000	24.01
	23 Bis(2-Chloroethoxy)methane	93	9.481	9.481	(0.970)	840780	25.0000	25.78
	24 Benzoic acid	105	9.651	9.651	(0.987)	1080816	50.0000	42.89(M)
	25 2,4-Dichlorophenol	162	9.610	9.610	(0.983)	671643	25.0000	24.40
	26 1,2,4-Trichlorobenzene	180	9.722	9.722	(0.995)	718446	25.0000	23.43
*	27 Naphthalene-d8	136	9.775	9.775	(1.000)	1838372	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	9.804	9.804	(1.003)	2077487	25.0000	23.82
	29 4-Chloroaniline	127	9.963	9.963	(1.019)	832819	25.0000	23.94
	30 Hexachlorobutadiene	225	10.121	10.121	(1.035)	385292	25.0000	22.15
	31 4-Chloro-3-methylphenol	107	10.797	10.797	(1.105)	636857	25.0000	25.23
	32 2-Methylnaphthalene	142	10.926	10.926	(1.118)	1368879	25.0000	23.09
	33 Hexachlorocyclopentadiene	237	11.302	11.302	(0.895)	281405	25.0000	18.02
	34 2,4,6-Trichlorophenol	196	11.449	11.449	(0.907)	460869	25.0000	23.99
	35 2,4,5-Trichlorophenol	196	11.513	11.513	(0.912)	491647	25.0000	25.14
$	36 2-Fluorobiphenyl	172	11.572	11.572	(0.917)	1481466	25.0000	22.67
	37 2-Chloronaphthalene	162	11.696	11.696	(0.926)	1327612	25.0000	22.88
	38 2-Nitroaniline	65	11.942	11.942	(0.946)	333132	25.0000	29.73
	39 Dimethylphthalate	163	12.318	12.318	(0.976)	1599893	25.0000	23.47
	40 Acenaphthylene	152	12.371	12.371	(0.980)	2101952	25.0000	24.01
	41 2,6-Dinitrotoluene	165	12.412	12.412	(0.983)	400137	25.0000	26.09
*	42 Acenaphthene-d10	164	12.624	12.624	(1.000)	1067021	20.0000	
	43 3-Nitroaniline	138	12.624	12.624	(1.000)	339651	25.0000	25.11
	44 Acenaphthene	153	12.677	12.677	(1.004)	1338937	25.0000	23.49
	45 2,4-Dinitrophenol	184	12.794	12.794	(1.013)	332257	50.0000	37.48
	46 Dibenzofuran	168	12.935	12.935	(1.025)	1791335	25.0000	23.58
	47 4-Nitrophenol	109	12.970	12.970	(1.027)	212285	25.0000	22.20
	48 2,4-Dinitrotoluene	165	13.035	13.035	(1.033)	522598	25.0000	25.84
	50 Diethylphthalate	149	13.470	13.470	(1.067)	1596150	25.0000	22.64
	49 Fluorene	166	13.493	13.493	(1.069)	1536069	25.0000	23.37
	51 4-Chlorophenyl-phenylether	204	13.517	13.517	(1.071)	756633	25.0000	23.73
	52 4-Nitroaniline	138	13.617	13.617	(1.079)	369470	25.0000	25.22
	53 4,6-Dinitro-2-methylphenol	198	13.699	13.699	(0.914)	558574	50.0000	45.34
	54 N-Nitrosodiphenylamine	169	13.728	13.728	(0.916)	1182080	25.0000	23.47
$	55 2,4,6-Tribromophenol	330	13.916	13.916	(1.102)	193095	25.0000	25.31
	56 4-Bromophenyl-phenylether	248	14.292	14.292	(0.954)	427461	25.0000	23.42
	57 Hexachlorobenzene	284	14.509	14.509	(0.968)	425178	25.0000	22.74
	58 Pentachlorophenol	266	14.821	14.821	(0.989)	224647	25.0000	17.64
*	59 Phenanthrene-d10	188	14.985	14.985	(1.000)	1785358	20.0000	
	60 Phenanthrene	178	15.026	15.026	(1.003)	2066525	25.0000	22.34
	61 Anthracene	178	15.097	15.097	(1.007)	2147563	25.0000	22.70
	62 Carbazole	167	15.385	15.385	(1.027)	1908500	25.0000	22.20
	63 Di-n-butylphthalate	149	16.107	16.107	(1.075)	2551944	25.0000	23.28
	64 Fluoranthene	202	16.947	16.947	(1.131)	2283469	25.0000	23.83
	65 Pyrene	202	17.300	17.300	(0.897)	2356414	25.0000	24.59
$	66 Terphenyl-d14	244	17.623	17.623	(0.914)	1399548	25.0000	23.92
	67 Butylbenzylphthalate	149	18.510	18.510	(0.960)	1226131	25.0000	25.21
	68 Benzo(a)anthracene	228	19.256	19.256	(0.998)	2101254	25.0000	23.72
*	69 Chrysene-d12	240	19.285	19.285	(1.000)	1511136	20.0000	
	70 3,3'-Dichlorobenzidine	252	19.274	19.274	(0.999)	713115	25.0000	24.89
	71 Chrysene	228	19.326	19.326	(1.002)	2049485	25.0000	23.64
	72 bis(2-Ethylhexyl)phthalate	149	19.514	19.514	(0.954)	1666639	25.0000	25.41
*	134 Di-n-octylphthalate-d4	153	20.448	20.448	(1.000)	2309854	20.0000	
	73 Di-n-octylphthalate	149	20.460	20.460	(1.001)	2618264	25.0000	22.80

	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	20.913	20.913	(0.976)	2401820	25.0000	24.04
75	Benzo(k)fluoranthene	252	20.948	20.948	(0.977)	2167169	25.0000	21.41
187	Total Benzofluoranthenes	252	20.948	20.948	(0.977)	4279641	50.0000	45.18
76	Benzo(a)pyrene	252	21.353	21.353	(0.996)	2076904	25.0000	23.43
* 77	Perylene-d12	264	21.435	21.435	(1.000)	1605196	20.0000	
78	Indeno(1,2,3-cd)pyrene	276	22.851	22.851	(1.066)	2356189	25.0000	24.76
79	Dibenzo(a,h)anthracene	278	22.875	22.875	(1.067)	1935054	25.0000	25.29
80	Benzo(g,h,i)perylene	276	23.227	23.227	(1.084)	2051115	25.0000	25.21
90	N-Nitrosodimethylamine	74	2.960	2.960	(0.383)	361778	25.0000	23.31
103	Pyridine	79	2.931	2.931	(0.379)	641428	25.0000	23.97
91	Aniline	93	7.296	7.296	(0.943)	896957	25.0000	23.39
105	1-methylnaphthalene	142	11.091	11.091	(1.135)	1340218	25.0000	23.08

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: 08181001.d
Lab Smp Id: CC0818
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100818.b/SW846100719.m
Misc Info: 10-

Calibration Date: 18-AUG-2010
Calibration Time: 12:26
Client Smp ID: CC0818
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	356478	178239	712956	532660	49.42
27 Naphthalene-d8	1293412	646706	2586824	1838372	42.13
42 Acenaphthene-d10	785897	392948	1571794	1067021	35.77
59 Phenanthrene-d10	1313990	656995	2627980	1785358	35.87
69 Chrysene-d12	1155293	577646	2310586	1511136	30.80
134 Di-n-octylphthala	1825297	912648	3650594	2309854	26.55
77 Perylene-d12	1146289	573144	2292578	1605196	40.03

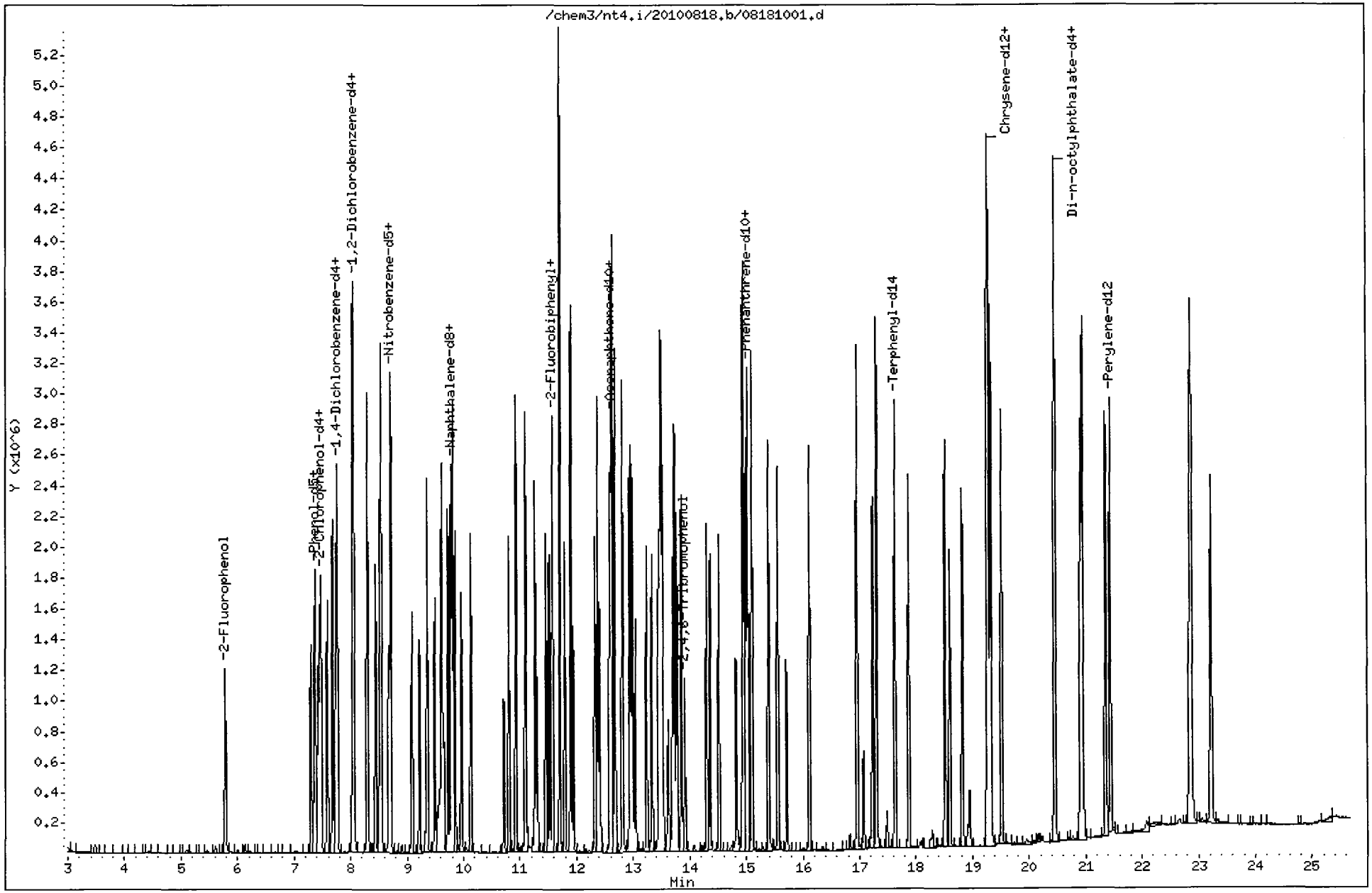
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	7.74	7.24	8.24	7.74	0.00
27 Naphthalene-d8	9.77	9.27	10.27	9.77	0.00
42 Acenaphthene-d10	12.62	12.12	13.12	12.62	0.00
59 Phenanthrene-d10	14.99	14.49	15.49	14.99	0.00
69 Chrysene-d12	19.29	18.79	19.79	19.29	0.00
134 Di-n-octylphthala	20.45	19.95	20.95	20.45	0.00
77 Perylene-d12	21.44	20.94	21.94	21.44	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/20100818.b/08181001.d
Date : 18-AUG-2010 12:26
Client ID: CC0818
Sample Info: CC0818

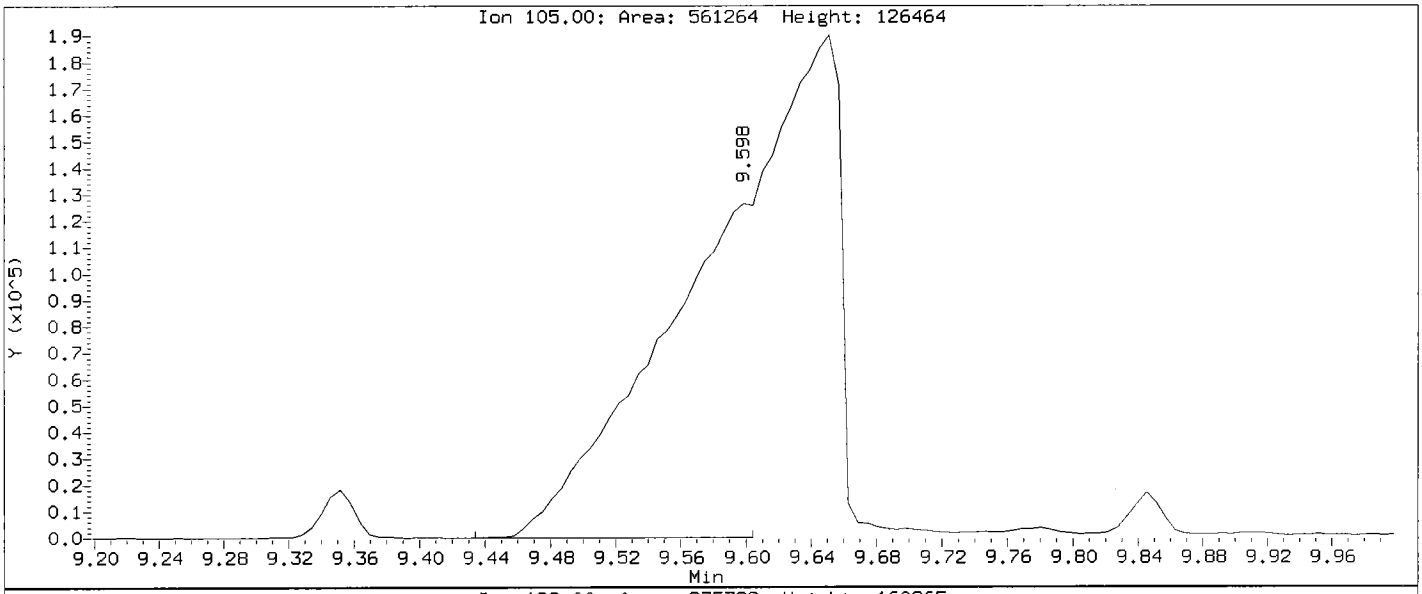
Instrument: nt4.i
Operator: JZ
Column diameter: 0.32

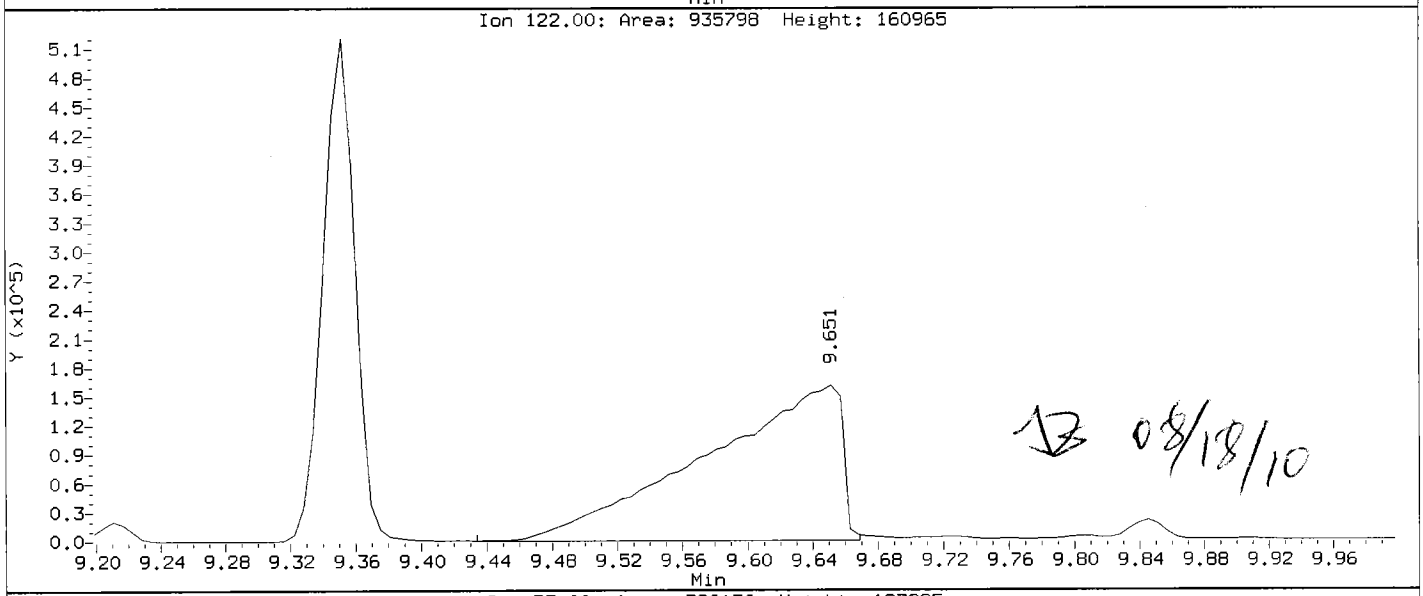
Column phase: ZB-5msi



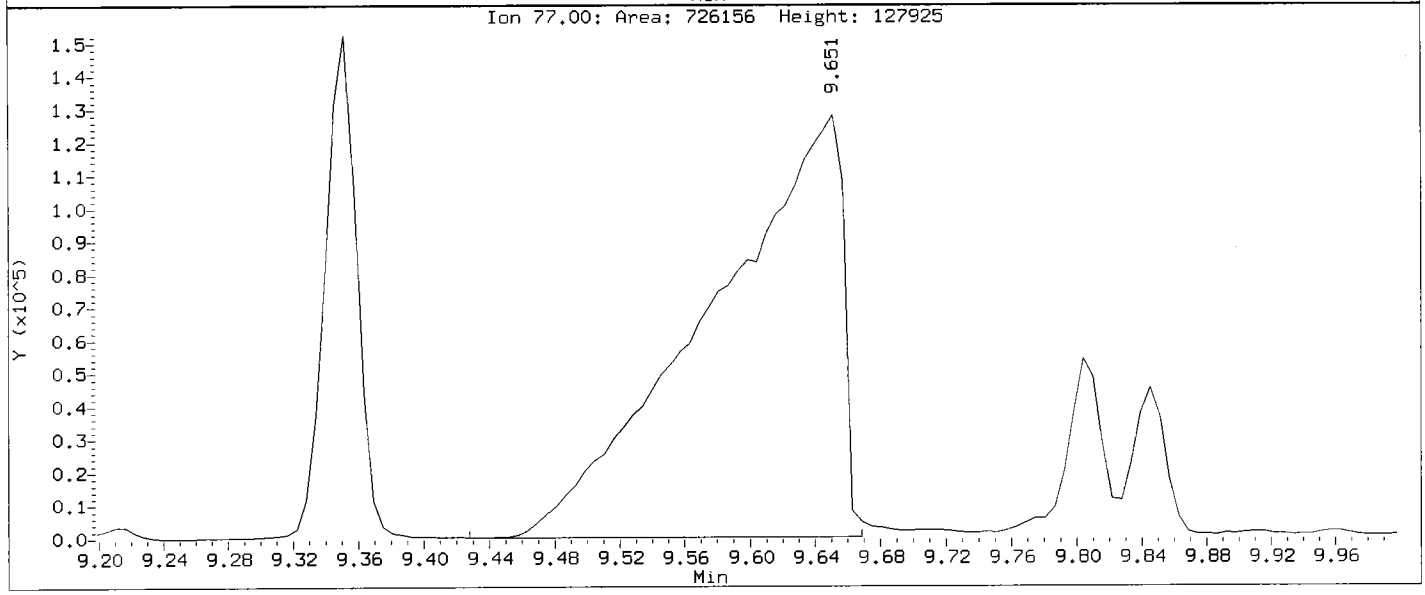
Data File: /chem3/nt4.i/20100818.b/08181001.d
Injection Date: 18-AUG-2010 12:26
Instrument: nt4.i
Client Sample ID: CC0818

Compound: Benzoic acid
CAS Number: 65-85-0





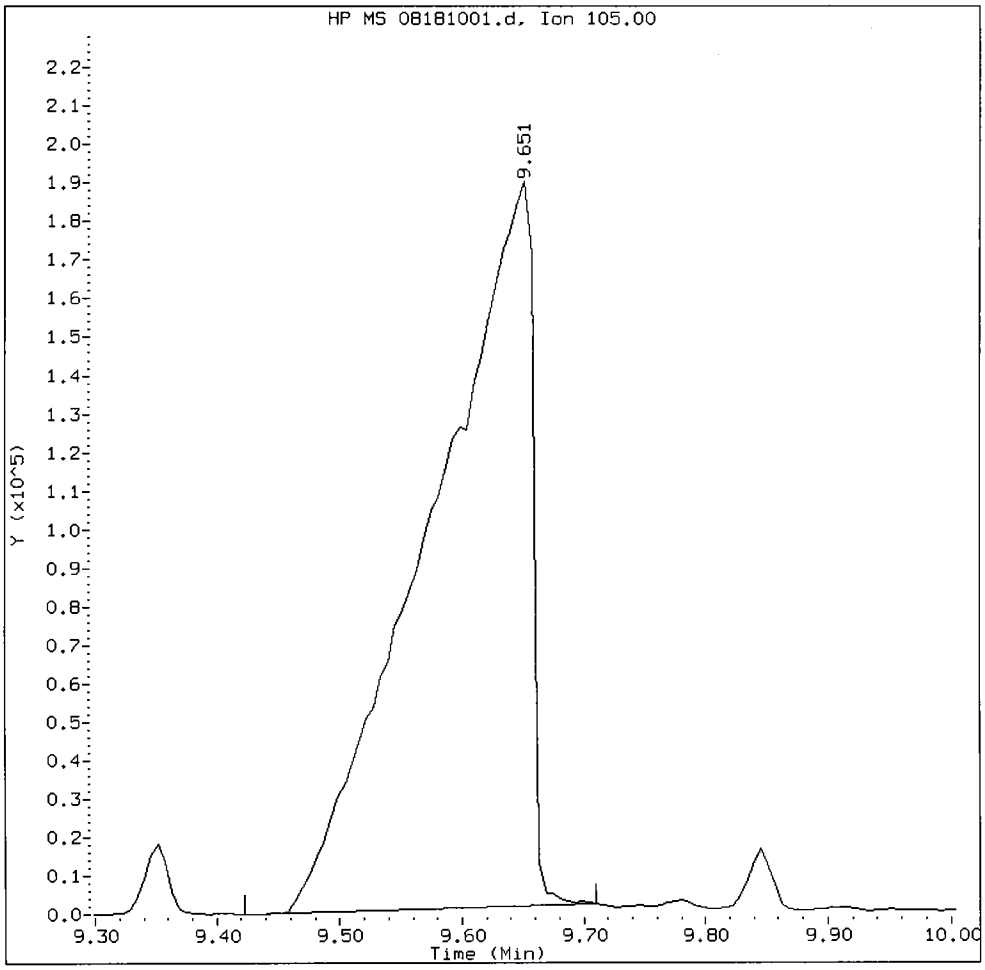
JB 08/18/10



RG79:00704

CC0818, /chem3/nt4.i/20100818.b/08181001.d

Benzoic acid Amount: 42.89 Area: 1080816



MANUAL INTEGRATION for Benzoic acid

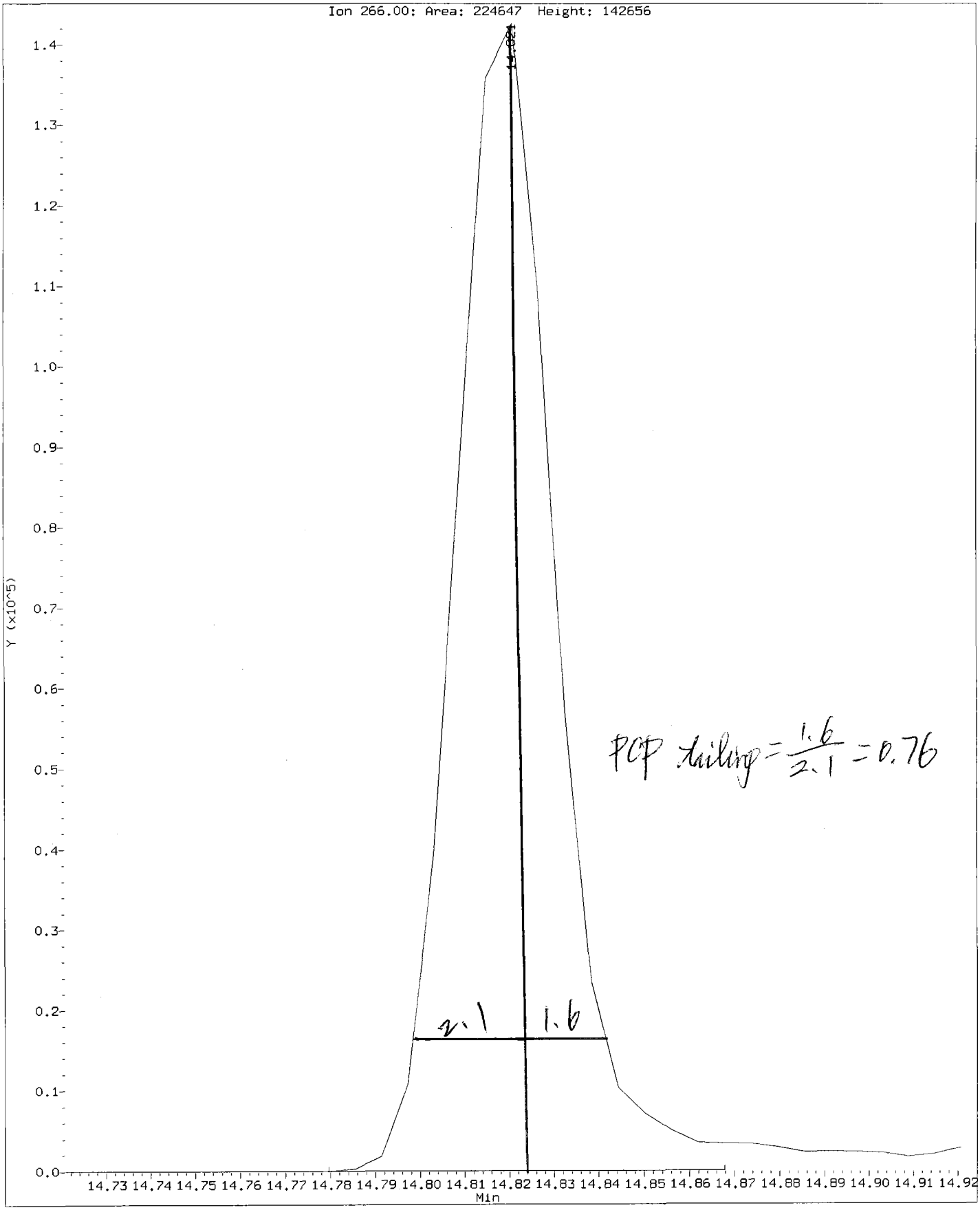
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: _____ Date: 08/18/10

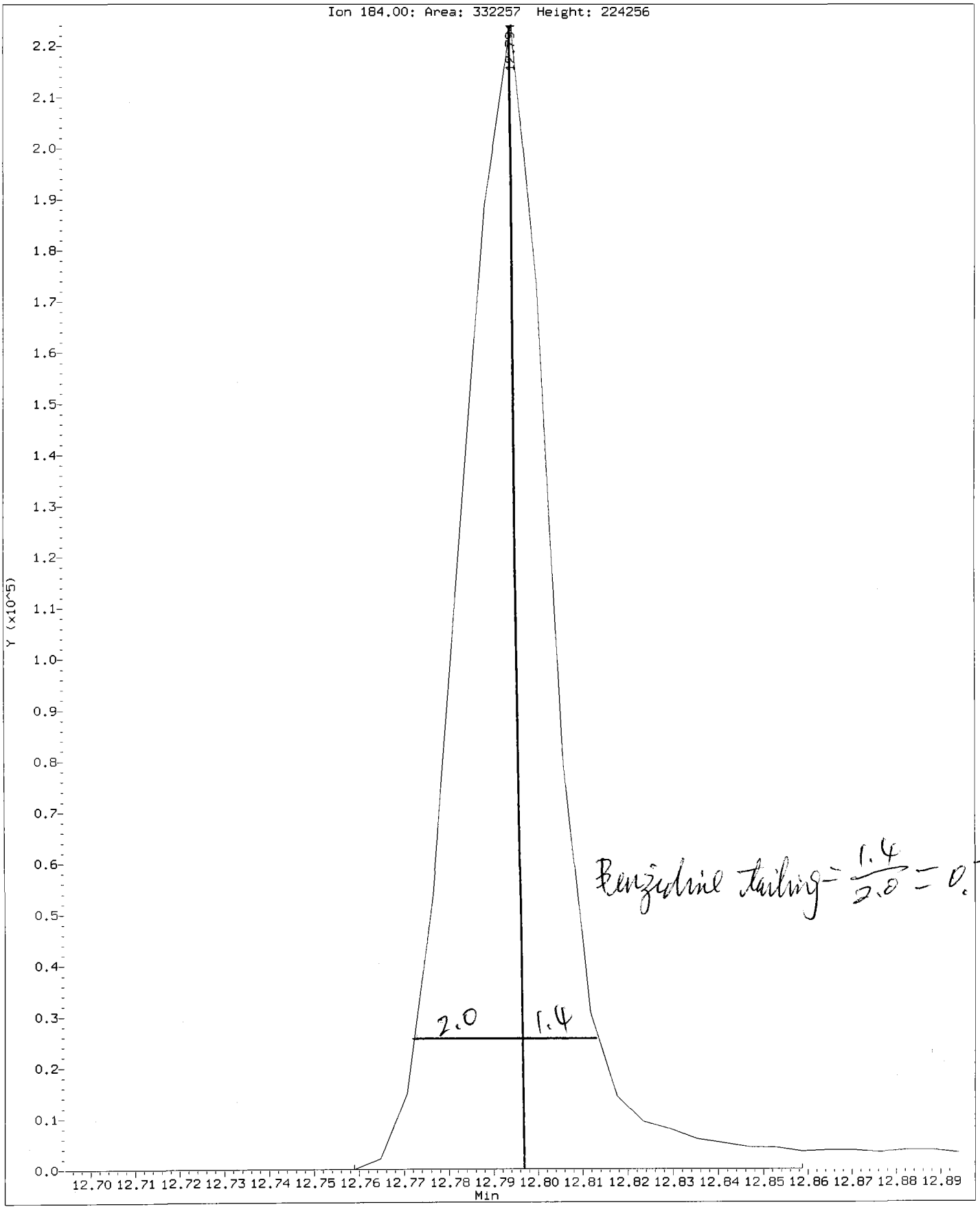
Data File: /chem3/nt4.i/20100818.b/ddt.b/08181001.d
Injection Date: 18-AUG-2010 12:26
Instrument: nt4.i
Client Sample ID: CC0818

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt4.i/20100818.b/ddt.b/08181001.d
Injection Date: 18-AUG-2010 12:26
Instrument: nt4.i
Client Sample ID: CC0818

Compound: Benzidine
CAS Number:



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt4.i/20100818.b/ddt.b/08181001.d ARI ID: CC0818
Method: /chem3/nt4.i/20100818.b/ddt.b/sw846ddt.m Misc: 10-
Analysis Date: 18-AUG-2010 12:26 Instrument: nt4.i

COMPOUND	RT	AREA
Pentachlorophenol	14.821	224647
Benzidine	12.794	332257
4,4'-DDE	----	----
4,4'-DDD	18.128	18807
4,4'-DDT	18.598	610006

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(0 + 18807) * 100}{(0 + 18807 + 610006)}$$

DDT Percent Breakdown = 3.0 %

OK

JL 08/18/10

Analytical Resources, Inc.

Semivolatile Report SW846 Method 8270D

Data file : /chem3/nt4.i/20100818.b/08181002.d
Lab Smp Id: RG79E Client Smp ID: PSB11-4-6-073010
Inj Date : 18-AUG-2010 12:59
Operator : JZ Inst ID: nt4.i
Smp Info : RG79E
Misc Info : 10-18509
Comment : 1ul Injection
Method : /chem3/nt4.i/20100818.b/SW846100719.m
Meth Date : 18-Aug-2010 15:57 jianqing Quant Type: ISTD
Cal Date : 19-JUL-2010 19:48 Cal File: 07191007.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pnas.sub
Target Version: 3.50

DL 08/18/10

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	28.60000	Weight of sample extracted (g)
M	8.60000	% 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	9.768	9.775	(1.000)	1508637	20.0000	
28 Naphthalene	128	9.798	9.804	(1.003)	55265	0.77204	14.77
32 2-Methylnaphthalene	142	10.920	10.926	(1.118)	37353	0.76783	14.69
105 1-methylnaphthalene	142	11.090	11.091	(1.135)	24064	0.50496	9.659
$ 36 2-Fluorobiphenyl	172	11.566	11.572	(0.917)	960596	17.2943	330.8
40 Acenaphthylene	152	Compound Not Detected.					
* 42 Acenaphthene-d10	164	12.617	12.624	(1.000)	906754	20.0000	
44 Acenaphthene	153	Compound Not Detected.					
46 Dibenzofuran	168	Compound Not Detected.					
49 Fluorene	166	Compound Not Detected.					
* 59 Phenanthrene-d10	188	14.979	14.985	(1.000)	1477381	20.0000	
60 Phenanthrene	178	15.014	15.026	(1.002)	82782	1.08164	20.69
61 Anthracene	178	Compound Not Detected.					
64 Fluoranthene	202	16.953	16.947	(1.132)	102327	1.29044	24.68
65 Pyrene	202	17.299	17.300	(0.897)	199189	2.30384	44.07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/kg)
$	66 Terphenyl-d14	244	17.634	17.623	(0.914)	905857	17.1572	328.2
	68 Benzo(a)anthracene	228	19.261	19.256	(0.998)	50167	0.62766	12.01
*	69 Chrysene-d12	240	19.291	19.285	(1.000)	1363509	20.0000	
	71 Chrysene	228	19.326	19.326	(1.002)	85360	1.09116	20.87
	187 Total Benzofluoranthenes	252	20.924	20.948	(0.975)	129596	1.72023	32.90
	76 Benzo(a)pyrene	252	21.370	21.353	(0.996)	58987	0.83678	16.01
*	77 Perylene-d12	264	21.458	21.435	(1.000)	1276664	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	23.244	23.227	(1.083)	44078	0.68124	13.03

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt4.i
Lab File ID: 08181002.d
Lab Smp Id: RG79E
Analysis Type: SV
Quant Type: ISTD
Operator: JZ
Method File: /chem3/nt4.i/20100818.b/SW846100719.m
Misc Info: 10-18509

Calibration Date: 18-AUG-2010
Calibration Time: 12:26
Client Smp ID: PSB11-4-6-073010
Level: LOW
Sample Type: Soil

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	1293412	646706	2586824	1508637	16.64
42 Acenaphthene-d10	785897	392948	1571794	906754	15.38
59 Phenanthrene-d10	1313990	656995	2627980	1477381	12.43
69 Chrysene-d12	1155293	577646	2310586	1363509	18.02
77 Perylene-d12	1146289	573144	2292578	1276664	11.37

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
27 Naphthalene-d8	9.77	9.27	10.27	9.77	-0.07
42 Acenaphthene-d10	12.62	12.12	13.12	12.62	-0.05
59 Phenanthrene-d10	14.99	14.49	15.49	14.98	-0.04
69 Chrysene-d12	19.29	18.79	19.79	19.29	0.03
77 Perylene-d12	21.44	20.94	21.94	21.46	0.11

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: Floyd/Snider
Client SDG: RG79
Sample Matrix: SOLID
Fraction: SV
Lab Smp Id: RG79E
Client Smp ID: PSB11-4-6-073010
Level: LOW
Operator: JZ
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: pnaslcss.spk
Quant Type: ISTD
Sublist File: pnas.sub
Method File: /chem3/nt4.i/20100818.b/SW846100719.m
Misc Info: 10-18509

SURROGATE COMPOUND	CONC ADDED ug/kg	CONC RECOVERED ug/kg	% RECOVERED	LIMITS
$ 36 2-Fluorobiphenyl	478.2	330.8	69.18	34-100
$ 66 Terphenyl-d14	478.2	328.2	68.63	35-112