Analytical Resources, Incorporated
Analytical Chemists and Consultants

15 December 2004

Stacy Pischer
Landau Associates, Inc.
130 Second Avenue South
Edmonds, WA 98020-9129

RE: Project: Port of Anacortes (POA) / 529009
ARI Job No: HJ95

Dear Stacy:

Please find enclosed a copy of chain of custody (COC) record and the analytical results for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted thirteen water samples on November 24, 2004 in good condition. There were no discrepancies between the COC and the sample containers' labels.

The samples were analyzed for VOAs, SIM-vinyl chloride, SVOAs, LVI SIM-cPAHs, PCBs, Resin Acids, NWTPH-G, NWTPH-Dx with acid/silica gel cleanups, total and dissolved metals, and tannins/lignins. The standards for the NWTPH-Dx analyses were acid/silica cleaned as per the method. The test for tanning/lignins was sub-contracted to Aquatic Research in Seattle, WA.

Methylene chloride was detected in the volatiles method blank associated with the analyses on 12/6/04 just above the reporting limit at 0.3 ug/L. Methylene chloride was detected in the trip blank just above the reporting limit, but was not detected in any of the samples. The detection in the trip blank has been qualified with a "B" flag.

A low level of acetone was detected in the trip blank. The data reviewer noted that the source of the acetone in the trip could be the acid preservative. Low levels of acetone were detected in the samples. The bottles are certified down to 5 ug/L for acetone and the laboratory had detected acetone in vials, believed to be in the acid preservative.

The VOA analyst, who performed the full 8260B analysis noted that the pH's of samples **MW-111**, **MW-107**, **MW-202**, **MW-102**, **MW-103**, and **MW-109** were about 7, although indicated as preserved. The analyst who performed the SIM vinyl chloride analyses noted that samples **MW-107**, **MW-202**, **MW-102**, **MW-109**, and **MW-110** were approximately 4, although indicated as preserved. And, the analyst who performed the NWTPH-G analyses noted that sample **MW-111** had a pH of approximately 3 and samples **MW-101**, **MW-202**, **MW-102**, and **MW-109** had pH's of approximately 4, although indicated as preserved.

Sulfur interference was present in samples **MW-101**, **MW-105**, **MW-106**, and **MW-108**, resulting in raised reporting limits with "Y" qualifiers.

Sample **MW-101** was particularly high in sulfur for this analysis, which interfered in the LVI-SIM PNA analysis of this sample. The sulfur interfered with the internal standard response in the undiluted analysis, resulting in unusable data. The analyst ran this sample successfully at a 2 times dilution. A mercury cleanup of the extract for the sulfur was also attempted, but compromised the internal standards and surrogates too much to be usable. Only the 2 times dilution of the sample has been reported.

In the initial extraction of the samples for PCBs, the method blank, laboratory control sample (LCS), and sample **MW-108** extracts were inadvertently dropped and broken during transfer to a cart. All samples were re-extracted one day past the holding time of those samples collected on 11/22/04 and the last day of holding time for the samples collected on 11/23/04. Both sets of analyses have been reported.

Samples **MW-101** and **MW-110** were particularly high in sulfur for this analysis in the initial extraction. The analyst noted that only sample **MW-101** showed high sulfur in the re-extraction. The presence of sulfur and other background interferences resulted in many elevated, "Y"-qualified reporting limits for all of the samples.

The data reviewer believes that there was cross-contamination of the method blank for this analysis from the samples with high background, resulting in "Y" qualified reporting limits in the method blank.

The heptachlorobiphenyl internal standard showed areas below the QC limit in both sets of data for sample **MW-104**. Sample **MW-101** was mercury cleaned and re-run 6 times for the sulfur interference. However, the bromo-nitrobenzene (BNB) internal standard was lost. The tetrachlorometaxylene surrogate could not be recovered due to the loss of the BNB internal standard. This resulted in elevated reporting limits for the early Aroclors.

In some of the samples' metals analyses, the result for an element was slightly higher in the dissolved analysis than in the corresponding total analysis. In general these differences are within the range of analytical variability. Sample **MW-106** showed levels of arsenic, copper, and nickel to be approximately twice as high in the dissolved analysis as they were in the total analysis, although the detection levels in both were still relatively low. The bottles for this sample were checked and it was verified that the total bottle was logged for total metals and the "dissolved" bottle was logged for dissolved metals. The data was also double-checked and all looked good.

Another potential source of variability is due to the fact that the total samples are not homogenized, but are allowed to settle and an aliquot be withdrawn from the top of the container for the analysis as per the client request.

The nitrite levels detected in sample **MW-101** and **MW-110** were slightly higher than the corresponding levels of nitrate plus nitrite. The difference for sample **MW-101** is a bit higher than expected with analytical variability. It is possible that there is some interference present and the sample should have been diluted. However, the discrepancy does not become apparent until both the nitrite and nitrate plus nitrite have been run and was not caught when the analyses were done. When the discrepancy was caught, the holding times were expired.

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Analytical Chemists and Consultants

A matrix spike was performed on sample **MW-111** for the sulfide analysis and showed a recovery slightly below the QC limit of 75% at 72.0%. The matrix spike on this sample was re-performed with recovery again below the QC limits, suggesting a matrix effect. Only the first matrix spike performed on this sample has been reported. A matrix spike performed on sample **MW-105** for this analysis, which showed a good recovery, is also reported.

No further analytical complications were noted. A copy of this report and all associated raw data will remain on file with ARI. If you have any questions or require additional information, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Mary Lou Fox

Mary Lou Fox
Project Manager
206/695-6211
marylou@arilabs.com

Enclosures
cc: HJ95
MLF/esj

5.2, 4.5, 5.2, 4.0, 4.5, 5.6, 5.5, 5.0, 5.0, 5.0, 4.5, 4.5, 2.5, 5.5, 4.0, 5.0

HJ95

LANDAU ASSOCIATES

- ☑ Seattle (Edmonds) (425) 778-0907
- ☐ Tacoma (253) 926-2493
- ☐ Spokane (509) 327-9737
- ☐ Portland (Tigard) (503) 443-6010
- ☐ _____

Chain-of-Custody Record

Date 11-22-04

Page 1 of 1

Project Name Port of Anacortes (POA) Project No. 529009

Project Location/Event Anacortes, WA / 4th Qtr. Sampling

Sampler's Name Ken Reid / Evelyn Albright

Project Contact Stacy Pischer

Send Results To Stacy Pischer

Turnaround Time
☑ Standard
☐ Accelerated
☐ _____

Testing Parameters

Sample I.D.	Date	Time	Matrix	No. of Containers	PCBs	NWTPH-Dx	Metals (Total + Dissolved)	NWTPH-g, VOCs, Sim VC	Cl, NO3, NO2, SO4	Total Phenols/NH3	Total Sulfide	Tannins/Lignins	SVOA plus Guai.	Sim PAH	Resin Acids	Pesticides
MW-111	11-22-04	1535	Water	66	X	X	X	X	X	X	X	X	X	X	X	
MW-101		1855		22	X	X	X	X	X	X	X	X	X	X	X	
MW-105		2015		23	X	X	X	X	X	X	X	X	X	X	X	X
MW-106		2100		23	X	X	X	X	X	X	X	X	X	X	X	X
MW-107		2200		23	X	X	X	X	X	X	X	X	X	X	X	X
MW-202	11-23-04	1130		22	X	X	X	X	X	X	X	X	X	X	X	
MW-102		1245		22	X	X	X	X	X	X	X	X	X	X	X	
MW-104		1450		22	X	X	X	X	X	X	X	X	X	X	X	
MW-103		1555		22	X	X	X	X	X	X	X	X	X	X	X	
MW-108		1905		23	X	X	X	X	X	X	X	X	X	X	X	X
MW-112		2020		22	X	X	X	X	X	X	X	X	X	X	X	
MW-109		2115		22	X	X	X	X	X	X	X	X	X	X	X	
MW-110		2215		22	X	X	X	X	X	X	X	X	X	X	X	

Observations/Comments

___ Allow water samples to settle, collect aliquot from clear portion

NWTPH-Dx:
✓ run acid wash/silica gel cleanup
___ run samples standardized to _____ product

___ Analyze for EPH if no specific product identified

VOC/BTEX/VPH (soil):
___ non-preserved
___ preserved w/methanol
___ preserved w/sodium bisulfate
___ Freese upon receipt

✓ Dissolved metal water samples field filtered

Other MW-111 = MS/MSD

Special Shipment/Handling or Storage Requirements Store on ice

Method of Shipment

Relinquished by
Signature
Evelyn Albright
Printed Name
Landau Assoc.
Company
Date 11-24-04 Time 0206

Received by
Signature
Nathan Moxley
Printed Name
LAI
Company
Date 11-24 Time 0830

Relinquished by
Signature
Nathan Moxley
Printed Name
LAI
Company
Date 11-24 Time 0935

Received by
Signature
Mary Lou Fox
Printed Name
ARI
Company
Date 11/24/04 Time 0935

WHITE COPY - Project File YELLOW COPY - Laboratory PINK COPY - Client Representative

Rev 4/01

100001

Data Reporting Qualifiers

Effective 11/22/04

Inorganic Data

U	Indicates that the target analyte was not detected at the reported concentration
*	Duplicate RPD is not within established control limits
B	Reported value is less than the CRDL but ≥ the Reporting Limit
N	Matrix Spike recovery not within established control limits
NA	Not Applicable, analyte not spiked
H	The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
L	Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U	Indicates that the target analyte was not detected at the reported concentration
*	Flagged value is not within established control limits
B	Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
J	Estimated concentration when the value is less than ARI's established reporting limits
D	The spiked compound was not detected due to sample extract dilution
NR	Spiked compound recovery is not reported due to chromatographic interference
E	Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

NA The flagged analyte was not analyzed for

NS The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte reporting limit is raised due to a positive chromatographic interference. The compound is not detected above the raised limit but may be present at or below the 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

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

F Samples were frozen prior to particle size determination

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MB-120304**
 METHOD BLANK

Lab Sample ID: MB-120304
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN1/PAB
Date Analyzed: 12/03/04 12:45

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2 U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2 U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2 U
107-02-8	Acrolein	5.0	< 5.0 U
74-88-4	Methyl Iodide	0.2	< 0.2 U
74-96-4	Bromoethane	0.2	< 0.2 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	0.2	< 0.2 U
74-95-3	Dibromomethane	0.2	< 0.2 U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2 U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	< 2.0 U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MB-120304**
 METHOD BLANK

Lab Sample ID: MB-120304 QC Report No: HJ95-Landau Associates
LIMS ID: 04-20656 Project: Port of Anacortes (POA)
Matrix: Water 529009
Date Analyzed: 12/03/04 12:45

CAS Number	Analyte	RL	Result
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0 U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2 U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2 U
87-68-3	Hexachlorobutadiene	0.5	< 0.5 U
106-93-4	Ethylene Dibromide	0.2	< 0.2 U
74-97-5	Bromochloromethane	0.2	< 0.2 U
594-20-7	2,2-Dichloropropane	0.2	< 0.2 U
142-28-9	1,3-Dichloropropane	0.2	< 0.2 U
98-82-8	Isopropylbenzene	0.2	< 0.2 U
103-65-1	n-Propylbenzene	0.2	< 0.2 U
108-86-1	Bromobenzene	0.2	< 0.2 U
95-49-8	2-Chlorotoluene	0.2	< 0.2 U
106-43-4	4-Chlorotoluene	0.2	< 0.2 U
98-06-6	tert-Butylbenzene	0.2	< 0.2 U
135-98-8	sec-Butylbenzene	0.2	< 0.2 U
99-87-6	4-Isopropyltoluene	0.2	< 0.2 U
104-51-8	n-Butylbenzene	0.2	< 0.2 U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5 U
91-20-3	Naphthalene	0.5	< 0.5 U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery	
d4-1,2-Dichloroethane	101%
d8-Toluene	105%
Bromofluorobenzene	92.6%
d4-1,2-Dichlorobenzene	106%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MB-120604**
 METHOD BLANK

Lab Sample ID: MB-120604
LIMS ID: 04-20668
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: NA
Date Received: NA

Instrument/Analyst: FINN1/PAB
Date Analyzed: 12/06/04 12:49

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	**Methylene Chloride**	**0.3**	**0.3**
67-64-1	Acetone	1.0	< 1.0 U
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2 U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2 U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2 U
107-02-8	Acrolein	5.0	< 5.0 U
74-88-4	Methyl Iodide	0.2	< 0.2 U
74-96-4	Bromoethane	0.2	< 0.2 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	0.2	< 0.2 U
74-95-3	Dibromomethane	0.2	< 0.2 U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2 U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	< 2.0 U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MB-120604**
 METHOD BLANK

Lab Sample ID: MB-120604 QC Report No: HJ95-Landau Associates
LIMS ID: 04-20668 Project: Port of Anacortes (POA)
Matrix: Water 529009
Date Analyzed: 12/06/04 12:49

CAS Number	Analyte	RL	Result
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0 U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2 U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2 U
87-68-3	Hexachlorobutadiene	0.5	< 0.5 U
106-93-4	Ethylene Dibromide	0.2	< 0.2 U
74-97-5	Bromochloromethane	0.2	< 0.2 U
594-20-7	2,2-Dichloropropane	0.2	< 0.2 U
142-28-9	1,3-Dichloropropane	0.2	< 0.2 U
98-82-8	Isopropylbenzene	0.2	< 0.2 U
103-65-1	n-Propylbenzene	0.2	< 0.2 U
108-86-1	Bromobenzene	0.2	< 0.2 U
95-49-8	2-Chlorotoluene	0.2	< 0.2 U
106-43-4	4-Chlorotoluene	0.2	< 0.2 U
98-06-6	tert-Butylbenzene	0.2	< 0.2 U
135-98-8	sec-Butylbenzene	0.2	< 0.2 U
99-87-6	4-Isopropyltoluene	0.2	< 0.2 U
104-51-8	n-Butylbenzene	0.2	< 0.2 U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5 U
91-20-3	Naphthalene	0.5	< 0.5 U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	110%
d8-Toluene	109%
Bromofluorobenzene	92.9%
d4-1,2-Dichlorobenzene	105%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-111**
Page 1 of 2 **SAMPLE**

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Instrument/Analyst: FINN1/PAB
Date Analyzed: 12/03/04 15:47

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**2.8**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2 U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2 U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2 U
107-02-8	Acrolein	5.0	< 5.0 U
74-88-4	Methyl Iodide	0.2	< 0.2 U
74-96-4	Bromoethane	0.2	< 0.2 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	0.2	< 0.2 U
74-95-3	Dibromomethane	0.2	< 0.2 U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2 U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	< 2.0 U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-111**
 SAMPLE

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Date Analyzed: 12/03/04 15:47

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

CAS Number	Analyte	RL	Result
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0 U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2 U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2 U
87-68-3	Hexachlorobutadiene	0.5	< 0.5 U
106-93-4	Ethylene Dibromide	0.2	< 0.2 U
74-97-5	Bromochloromethane	0.2	< 0.2 U
594-20-7	2,2-Dichloropropane	0.2	< 0.2 U
142-28-9	1,3-Dichloropropane	0.2	< 0.2 U
98-82-8	Isopropylbenzene	0.2	< 0.2 U
103-65-1	n-Propylbenzene	0.2	< 0.2 U
108-86-1	Bromobenzene	0.2	< 0.2 U
95-49-8	2-Chlorotoluene	0.2	< 0.2 U
106-43-4	4-Chlorotoluene	0.2	< 0.2 U
98-06-6	tert-Butylbenzene	0.2	< 0.2 U
135-98-8	sec-Butylbenzene	0.2	< 0.2 U
99-87-6	4-Isopropyltoluene	0.2	< 0.2 U
104-51-8	n-Butylbenzene	0.2	< 0.2 U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5 U
91-20-3	Naphthalene	0.5	< 0.5 U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	95.0%
d8-Toluene	102%
Bromofluorobenzene	91.0%
d4-1,2-Dichlorobenzene	110%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-111**
Page 1 of 2 **MATRIX SPIKE**

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Instrument/Analyst: FINN1/PAB
Date Analyzed: 12/03/04 16:17

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	---
74-83-9	Bromomethane	0.2	---
75-00-3	Chloroethane	0.2	---
75-09-2	Methylene Chloride	0.3	---
67-64-1	Acetone	1.0	---
75-15-0	Carbon Disulfide	0.2	---
75-35-4	1,1-Dichloroethene	0.2	---
75-34-3	1,1-Dichloroethane	0.2	---
156-60-5	trans-1,2-Dichloroethene	0.2	---
156-59-2	cis-1,2-Dichloroethene	0.2	---
67-66-3	Chloroform	0.2	---
107-06-2	1,2-Dichloroethane	0.2	---
78-93-3	2-Butanone	1.0	---
71-55-6	1,1,1-Trichloroethane	0.2	---
56-23-5	Carbon Tetrachloride	0.2	---
108-05-4	Vinyl Acetate	0.2	---
75-27-4	Bromodichloromethane	0.2	---
78-87-5	1,2-Dichloropropane	0.2	---
10061-01-5	cis-1,3-Dichloropropene	0.2	---
79-01-6	Trichloroethene	0.2	---
124-48-1	Dibromochloromethane	0.2	---
79-00-5	1,1,2-Trichloroethane	0.2	---
71-43-2	Benzene	0.2	---
10061-02-6	trans-1,3-Dichloropropene	0.2	---
110-75-8	2-Chloroethylvinylether	0.5	---
75-25-2	Bromoform	0.2	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	---
591-78-6	2-Hexanone	1.0	---
127-18-4	Tetrachloroethene	0.2	---
79-34-5	1,1,2,2-Tetrachloroethane	0.2	---
108-88-3	Toluene	0.2	---
108-90-7	Chlorobenzene	0.2	---
100-41-4	Ethylbenzene	0.2	---
100-42-5	Styrene	0.2	---
75-69-4	Trichlorofluoromethane	0.2	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	---
1330-20-7	m,p-Xylene	0.4	---
95-47-6	o-Xylene	0.2	---
95-50-1	1,2-Dichlorobenzene	0.2	---
541-73-1	1,3-Dichlorobenzene	0.2	---
106-46-7	1,4-Dichlorobenzene	0.2	---
107-02-8	Acrolein	5.0	---
74-88-4	Methyl Iodide	0.2	---
74-96-4	Bromoethane	0.2	---
107-13-1	Acrylonitrile	1.0	---
563-58-6	1,1-Dichloropropene	0.2	---
74-95-3	Dibromomethane	0.2	---
630-20-6	1,1,1,2-Tetrachloroethane	0.2	---
96-12-8	1,2-Dibromo-3-chloropropane	2.0	---
96-18-4	1,2,3-Trichloropropane	0.5	---

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-111**
 MATRIX SPIKE

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Date Analyzed: 12/03/04 16:17

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

CAS Number	Analyte	RL	Result
110-57-6	trans-1,4-Dichloro-2-butene	1.0	---
108-67-8	1,3,5-Trimethylbenzene	0.2	---
95-63-6	1,2,4-Trimethylbenzene	0.2	---
87-68-3	Hexachlorobutadiene	0.5	---
106-93-4	Ethylene Dibromide	0.2	---
74-97-5	Bromochloromethane	0.2	---
594-20-7	2,2-Dichloropropane	0.2	---
142-28-9	1,3-Dichloropropane	0.2	---
98-82-8	Isopropylbenzene	0.2	---
103-65-1	n-Propylbenzene	0.2	---
108-86-1	Bromobenzene	0.2	---
95-49-8	2-Chlorotoluene	0.2	---
106-43-4	4-Chlorotoluene	0.2	---
98-06-6	tert-Butylbenzene	0.2	---
135-98-8	sec-Butylbenzene	0.2	---
99-87-6	4-Isopropyltoluene	0.2	---
104-51-8	n-Butylbenzene	0.2	---
120-82-1	1,2,4-Trichlorobenzene	0.5	---
91-20-3	Naphthalene	0.5	---
87-61-6	1,2,3-Trichlorobenzene	0.5	---

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	97.6%
d8-Toluene	106%
Bromofluorobenzene	88.7%
d4-1,2-Dichlorobenzene	97.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-111**
Page 1 of 2 **MATRIX SPIKE DUPLICATE**

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Instrument/Analyst: FINN1/PAB
Date Analyzed: 12/03/04 16:47

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	---
74-83-9	Bromomethane	0.2	---
75-00-3	Chloroethane	0.2	---
75-09-2	Methylene Chloride	0.3	---
67-64-1	Acetone	1.0	---
75-15-0	Carbon Disulfide	0.2	---
75-35-4	1,1-Dichloroethene	0.2	---
75-34-3	1,1-Dichloroethane	0.2	---
156-60-5	trans-1,2-Dichloroethene	0.2	---
156-59-2	cis-1,2-Dichloroethene	0.2	---
67-66-3	Chloroform	0.2	---
107-06-2	1,2-Dichloroethane	0.2	---
78-93-3	2-Butanone	1.0	---
71-55-6	1,1,1-Trichloroethane	0.2	---
56-23-5	Carbon Tetrachloride	0.2	---
108-05-4	Vinyl Acetate	0.2	---
75-27-4	Bromodichloromethane	0.2	---
78-87-5	1,2-Dichloropropane	0.2	---
10061-01-5	cis-1,3-Dichloropropene	0.2	---
79-01-6	Trichloroethene	0.2	---
124-48-1	Dibromochloromethane	0.2	---
79-00-5	1,1,2-Trichloroethane	0.2	---
71-43-2	Benzene	0.2	---
10061-02-6	trans-1,3-Dichloropropene	0.2	---
110-75-8	2-Chloroethylvinylether	0.5	---
75-25-2	Bromoform	0.2	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	---
591-78-6	2-Hexanone	1.0	---
127-18-4	Tetrachloroethene	0.2	---
79-34-5	1,1,2,2-Tetrachloroethane	0.2	---
108-88-3	Toluene	0.2	---
108-90-7	Chlorobenzene	0.2	---
100-41-4	Ethylbenzene	0.2	---
100-42-5	Styrene	0.2	---
75-69-4	Trichlorofluoromethane	0.2	---
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	---
1330-20-7	m,p-Xylene	0.4	---
95-47-6	o-Xylene	0.2	---
95-50-1	1,2-Dichlorobenzene	0.2	---
541-73-1	1,3-Dichlorobenzene	0.2	---
106-46-7	1,4-Dichlorobenzene	0.2	---
107-02-8	Acrolein	5.0	---
74-88-4	Methyl Iodide	0.2	---
74-96-4	Bromoethane	0.2	---
107-13-1	Acrylonitrile	1.0	---
563-58-6	1,1-Dichloropropene	0.2	---
74-95-3	Dibromomethane	0.2	---
630-20-6	1,1,1,2-Tetrachloroethane	0.2	---
96-12-8	1,2-Dibromo-3-chloropropane	2.0	---
96-18-4	1,2,3-Trichloropropane	0.5	---

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-111**
 MATRIX SPIKE DUPLICATE

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Date Analyzed: 12/03/04 16:47

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

CAS Number	Analyte	RL	Result
110-57-6	trans-1,4-Dichloro-2-butene	1.0	---
108-67-8	1,3,5-Trimethylbenzene	0.2	---
95-63-6	1,2,4-Trimethylbenzene	0.2	---
87-68-3	Hexachlorobutadiene	0.5	---
106-93-4	Ethylene Dibromide	0.2	---
74-97-5	Bromochloromethane	0.2	---
594-20-7	2,2-Dichloropropane	0.2	---
142-28-9	1,3-Dichloropropane	0.2	---
98-82-8	Isopropylbenzene	0.2	---
103-65-1	n-Propylbenzene	0.2	---
108-86-1	Bromobenzene	0.2	---
95-49-8	2-Chlorotoluene	0.2	---
106-43-4	4-Chlorotoluene	0.2	---
98-06-6	tert-Butylbenzene	0.2	---
135-98-8	sec-Butylbenzene	0.2	---
99-87-6	4-Isopropyltoluene	0.2	---
104-51-8	n-Butylbenzene	0.2	---
120-82-1	1,2,4-Trichlorobenzene	0.5	---
91-20-3	Naphthalene	0.5	---
87-61-6	1,2,3-Trichlorobenzene	0.5	---

Reported in µg/L (ppb)

Volatile Surrogate Recovery	
d4-1,2-Dichloroethane	89.1%
d8-Toluene	95.7%
Bromofluorobenzene	88.2%
d4-1,2-Dichlorobenzene	96.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-101**
Page 1 of 2 **SAMPLE**

Lab Sample ID: HJ95B
LIMS ID: 04-20657
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Instrument/Analyst: FINN1/PAB
Date Analyzed: 12/03/04 17:17

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**2.3**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2 U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2 U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2 U
107-02-8	Acrolein	5.0	< 5.0 U
74-88-4	Methyl Iodide	0.2	< 0.2 U
74-96-4	Bromoethane	0.2	< 0.2 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	0.2	< 0.2 U
74-95-3	Dibromomethane	0.2	< 0.2 U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2 U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	< 2.0 U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-101**
Page 2 of 2 **SAMPLE**

Lab Sample ID: HJ95B
LIMS ID: 04-20657
Matrix: Water
Date Analyzed: 12/03/04 17:17

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

CAS Number	Analyte	RL	Result
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0 U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2 U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2 U
87-68-3	Hexachlorobutadiene	0.5	< 0.5 U
106-93-4	Ethylene Dibromide	0.2	< 0.2 U
74-97-5	Bromochloromethane	0.2	< 0.2 U
594-20-7	2,2-Dichloropropane	0.2	< 0.2 U
142-28-9	1,3-Dichloropropane	0.2	< 0.2 U
98-82-8	Isopropylbenzene	0.2	< 0.2 U
103-65-1	n-Propylbenzene	0.2	< 0.2 U
108-86-1	Bromobenzene	0.2	< 0.2 U
95-49-8	2-Chlorotoluene	0.2	< 0.2 U
106-43-4	4-Chlorotoluene	0.2	< 0.2 U
98-06-6	tert-Butylbenzene	0.2	< 0.2 U
135-98-8	sec-Butylbenzene	0.2	< 0.2 U
99-87-6	4-Isopropyltoluene	0.2	< 0.2 U
104-51-8	n-Butylbenzene	0.2	< 0.2 U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5 U
91-20-3	Naphthalene	0.5	< 0.5 U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%
d8-Toluene	98.8%
Bromofluorobenzene	88.0%
d4-1,2-Dichlorobenzene	110%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-105**
Page 1 of 2 **SAMPLE**

Lab Sample ID: HJ95C
LIMS ID: 04-20658
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Instrument/Analyst: FINN1/PAB
Date Analyzed: 12/03/04 17:47

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**3.5**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2 U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2 U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2 U
107-02-8	Acrolein	5.0	< 5.0 U
74-88-4	Methyl Iodide	0.2	< 0.2 U
74-96-4	Bromoethane	0.2	< 0.2 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	0.2	< 0.2 U
74-95-3	Dibromomethane	0.2	< 0.2 U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2 U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	< 2.0 U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-105**
 SAMPLE

Lab Sample ID: HJ95C
LIMS ID: 04-20658
Matrix: Water
Date Analyzed: 12/03/04 17:47

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

CAS Number	Analyte	RL	Result
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0 U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2 U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2 U
87-68-3	Hexachlorobutadiene	0.5	< 0.5 U
106-93-4	Ethylene Dibromide	0.2	< 0.2 U
74-97-5	Bromochloromethane	0.2	< 0.2 U
594-20-7	2,2-Dichloropropane	0.2	< 0.2 U
142-28-9	1,3-Dichloropropane	0.2	< 0.2 U
98-82-8	Isopropylbenzene	0.2	< 0.2 U
103-65-1	n-Propylbenzene	0.2	< 0.2 U
108-86-1	Bromobenzene	0.2	< 0.2 U
95-49-8	2-Chlorotoluene	0.2	< 0.2 U
106-43-4	4-Chlorotoluene	0.2	< 0.2 U
98-06-6	tert-Butylbenzene	0.2	< 0.2 U
135-98-8	sec-Butylbenzene	0.2	< 0.2 U
99-87-6	4-Isopropyltoluene	0.2	< 0.2 U
104-51-8	n-Butylbenzene	0.2	< 0.2 U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5 U
91-20-3	Naphthalene	0.5	< 0.5 U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	101%
d8-Toluene	98.0%
Bromofluorobenzene	83.5%
d4-1,2-Dichlorobenzene	99.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-106**
Page 1 of 2 **SAMPLE**

Lab Sample ID: HJ95D
LIMS ID: 04-20659
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Instrument/Analyst: FINN1/PAB
Date Analyzed: 12/03/04 18:16

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**3.3**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2 U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2 U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2 U
107-02-8	Acrolein	5.0	< 5.0 U
74-88-4	Methyl Iodide	0.2	< 0.2 U
74-96-4	Bromoethane	0.2	< 0.2 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	0.2	< 0.2 U
74-95-3	Dibromomethane	0.2	< 0.2 U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2 U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	< 2.0 U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-106**
 SAMPLE

Lab Sample ID: HJ95D
LIMS ID: 04-20659
Matrix: Water
Date Analyzed: 12/03/04 18:16

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

CAS Number	Analyte	RL	Result
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0 U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2 U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2 U
87-68-3	Hexachlorobutadiene	0.5	< 0.5 U
106-93-4	Ethylene Dibromide	0.2	< 0.2 U
74-97-5	Bromochloromethane	0.2	< 0.2 U
594-20-7	2,2-Dichloropropane	0.2	< 0.2 U
142-28-9	1,3-Dichloropropane	0.2	< 0.2 U
98-82-8	Isopropylbenzene	0.2	< 0.2 U
103-65-1	n-Propylbenzene	0.2	< 0.2 U
108-86-1	Bromobenzene	0.2	< 0.2 U
95-49-8	2-Chlorotoluene	0.2	< 0.2 U
106-43-4	4-Chlorotoluene	0.2	< 0.2 U
98-06-6	tert-Butylbenzene	0.2	< 0.2 U
135-98-8	sec-Butylbenzene	0.2	< 0.2 U
99-87-6	4-Isopropyltoluene	0.2	< 0.2 U
104-51-8	n-Butylbenzene	0.2	< 0.2 U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5 U
91-20-3	Naphthalene	0.5	< 0.5 U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	108%
d8-Toluene	108%
Bromofluorobenzene	95.0%
d4-1,2-Dichlorobenzene	107%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-107**
Page 1 of 2 **SAMPLE**

Lab Sample ID: HJ95E
LIMS ID: 04-20660
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Instrument/Analyst: FINN1/PAB
Date Analyzed: 12/03/04 19:46

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**3.5**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2 U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2 U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2 U
107-02-8	Acrolein	5.0	< 5.0 U
74-88-4	Methyl Iodide	0.2	< 0.2 U
74-96-4	Bromoethane	0.2	< 0.2 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	0.2	< 0.2 U
74-95-3	Dibromomethane	0.2	< 0.2 U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2 U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	< 2.0 U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-107**
Page 2 of 2 **SAMPLE**

Lab Sample ID: HJ95E
LIMS ID: 04-20660
Matrix: Water
Date Analyzed: 12/03/04 19:46

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

CAS Number	Analyte	RL	Result
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0 U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2 U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2 U
87-68-3	Hexachlorobutadiene	0.5	< 0.5 U
106-93-4	Ethylene Dibromide	0.2	< 0.2 U
74-97-5	Bromochloromethane	0.2	< 0.2 U
594-20-7	2,2-Dichloropropane	0.2	< 0.2 U
142-28-9	1,3-Dichloropropane	0.2	< 0.2 U
98-82-8	Isopropylbenzene	0.2	< 0.2 U
103-65-1	n-Propylbenzene	0.2	< 0.2 U
108-86-1	Bromobenzene	0.2	< 0.2 U
95-49-8	2-Chlorotoluene	0.2	< 0.2 U
106-43-4	4-Chlorotoluene	0.2	< 0.2 U
98-06-6	tert-Butylbenzene	0.2	< 0.2 U
135-98-8	sec-Butylbenzene	0.2	< 0.2 U
99-87-6	4-Isopropyltoluene	0.2	< 0.2 U
104-51-8	n-Butylbenzene	0.2	< 0.2 U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5 U
91-20-3	Naphthalene	0.5	< 0.5 U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	110%
d8-Toluene	111%
Bromofluorobenzene	95.8%
d4-1,2-Dichlorobenzene	106%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-202**
Page 1 of 2 **SAMPLE**

Lab Sample ID: HJ95F
LIMS ID: 04-20661
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Instrument/Analyst: FINN1/PAB
Date Analyzed: 12/03/04 20:16

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**5.5**
75-15-0	**Carbon Disulfide**	**0.2**	**0.6**
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2 U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2 U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2 U
107-02-8	Acrolein	5.0	< 5.0 U
74-88-4	Methyl Iodide	0.2	< 0.2 U
74-96-4	Bromoethane	0.2	< 0.2 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	0.2	< 0.2 U
74-95-3	Dibromomethane	0.2	< 0.2 U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2 U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	< 2.0 U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-202**
Page 2 of 2 **SAMPLE**

Lab Sample ID: HJ95F
LIMS ID: 04-20661
Matrix: Water
Date Analyzed: 12/03/04 20:16

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

CAS Number	Analyte	RL	Result
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0 U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2 U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2 U
87-68-3	Hexachlorobutadiene	0.5	< 0.5 U
106-93-4	Ethylene Dibromide	0.2	< 0.2 U
74-97-5	Bromochloromethane	0.2	< 0.2 U
594-20-7	2,2-Dichloropropane	0.2	< 0.2 U
142-28-9	1,3-Dichloropropane	0.2	< 0.2 U
98-82-8	Isopropylbenzene	0.2	< 0.2 U
103-65-1	n-Propylbenzene	0.2	< 0.2 U
108-86-1	Bromobenzene	0.2	< 0.2 U
95-49-8	2-Chlorotoluene	0.2	< 0.2 U
106-43-4	4-Chlorotoluene	0.2	< 0.2 U
98-06-6	tert-Butylbenzene	0.2	< 0.2 U
135-98-8	sec-Butylbenzene	0.2	< 0.2 U
99-87-6	4-Isopropyltoluene	0.2	< 0.2 U
104-51-8	n-Butylbenzene	0.2	< 0.2 U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5 U
91-20-3	Naphthalene	0.5	< 0.5 U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%
d8-Toluene	111%
Bromofluorobenzene	94.2%
d4-1,2-Dichlorobenzene	105%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-102**
Page 1 of 2 **SAMPLE**

Lab Sample ID: HJ95G
LIMS ID: 04-20662
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Instrument/Analyst: FINN1/PAB
Date Analyzed: 12/03/04 20:46

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**9.0**
75-15-0	**Carbon Disulfide**	**0.2**	**0.7**
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2 U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2 U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2 U
107-02-8	Acrolein	5.0	< 5.0 U
74-88-4	Methyl Iodide	0.2	< 0.2 U
74-96-4	Bromoethane	0.2	< 0.2 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	0.2	< 0.2 U
74-95-3	Dibromomethane	0.2	< 0.2 U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2 U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	< 2.0 U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-102**
Page 2 of 2 **SAMPLE**

Lab Sample ID: HJ95G
LIMS ID: 04-20662
Matrix: Water
Date Analyzed: 12/03/04 20:46

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

CAS Number	Analyte	RL	Result
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0 U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2 U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2 U
87-68-3	Hexachlorobutadiene	0.5	< 0.5 U
106-93-4	Ethylene Dibromide	0.2	< 0.2 U
74-97-5	Bromochloromethane	0.2	< 0.2 U
594-20-7	2,2-Dichloropropane	0.2	< 0.2 U
142-28-9	1,3-Dichloropropane	0.2	< 0.2 U
98-82-8	Isopropylbenzene	0.2	< 0.2 U
103-65-1	n-Propylbenzene	0.2	< 0.2 U
108-86-1	Bromobenzene	0.2	< 0.2 U
95-49-8	2-Chlorotoluene	0.2	< 0.2 U
106-43-4	4-Chlorotoluene	0.2	< 0.2 U
98-06-6	tert-Butylbenzene	0.2	< 0.2 U
135-98-8	sec-Butylbenzene	0.2	< 0.2 U
99-87-6	4-Isopropyltoluene	0.2	< 0.2 U
104-51-8	n-Butylbenzene	0.2	< 0.2 U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5 U
91-20-3	Naphthalene	0.5	< 0.5 U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	101%
d8-Toluene	98.2%
Bromofluorobenzene	89.2%
d4-1,2-Dichlorobenzene	99.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-104**
 SAMPLE

Lab Sample ID: HJ95H
LIMS ID: 04-20663
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Instrument/Analyst: FINN1/PAB
Date Analyzed: 12/03/04 21:15

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**2.3**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2 U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2 U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2 U
107-02-8	Acrolein	5.0	< 5.0 U
74-88-4	Methyl Iodide	0.2	< 0.2 U
74-96-4	Bromoethane	0.2	< 0.2 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	0.2	< 0.2 U
74-95-3	Dibromomethane	0.2	< 0.2 U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2 U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	< 2.0 U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-104**
Page 2 of 2 **SAMPLE**

Lab Sample ID: HJ95H
LIMS ID: 04-20663
Matrix: Water
Date Analyzed: 12/03/04 21:15

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

CAS Number	Analyte	RL	Result
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0 U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2 U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2 U
87-68-3	Hexachlorobutadiene	0.5	< 0.5 U
106-93-4	Ethylene Dibromide	0.2	< 0.2 U
74-97-5	Bromochloromethane	0.2	< 0.2 U
594-20-7	2,2-Dichloropropane	0.2	< 0.2 U
142-28-9	1,3-Dichloropropane	0.2	< 0.2 U
98-82-8	Isopropylbenzene	0.2	< 0.2 U
103-65-1	n-Propylbenzene	0.2	< 0.2 U
108-86-1	Bromobenzene	0.2	< 0.2 U
95-49-8	2-Chlorotoluene	0.2	< 0.2 U
106-43-4	4-Chlorotoluene	0.2	< 0.2 U
98-06-6	tert-Butylbenzene	0.2	< 0.2 U
135-98-8	sec-Butylbenzene	0.2	< 0.2 U
99-87-6	4-Isopropyltoluene	0.2	< 0.2 U
104-51-8	n-Butylbenzene	0.2	< 0.2 U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5 U
91-20-3	Naphthalene	0.5	< 0.5 U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	105%
d8-Toluene	102%
Bromofluorobenzene	92.8%
d4-1,2-Dichlorobenzene	104%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-103**
Page 1 of 2 **SAMPLE**

Lab Sample ID: HJ95I
LIMS ID: 04-20664
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Instrument/Analyst: FINN1/PAB
Date Analyzed: 12/03/04 18:46

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**9.3**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2 U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2 U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2 U
107-02-8	Acrolein	5.0	< 5.0 U
74-88-4	Methyl Iodide	0.2	< 0.2 U
74-96-4	Bromoethane	0.2	< 0.2 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	0.2	< 0.2 U
74-95-3	Dibromomethane	0.2	< 0.2 U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2 U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	< 2.0 U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-103**
Page 2 of 2 **SAMPLE**

Lab Sample ID: HJ95I
LIMS ID: 04-20664
Matrix: Water
Date Analyzed: 12/03/04 18:46

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

CAS Number	Analyte	RL	Result
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0 U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2 U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2 U
87-68-3	Hexachlorobutadiene	0.5	< 0.5 U
106-93-4	Ethylene Dibromide	0.2	< 0.2 U
74-97-5	Bromochloromethane	0.2	< 0.2 U
594-20-7	2,2-Dichloropropane	0.2	< 0.2 U
142-28-9	1,3-Dichloropropane	0.2	< 0.2 U
98-82-8	Isopropylbenzene	0.2	< 0.2 U
103-65-1	n-Propylbenzene	0.2	< 0.2 U
108-86-1	Bromobenzene	0.2	< 0.2 U
95-49-8	2-Chlorotoluene	0.2	< 0.2 U
106-43-4	4-Chlorotoluene	0.2	< 0.2 U
98-06-6	tert-Butylbenzene	0.2	< 0.2 U
135-98-8	sec-Butylbenzene	0.2	< 0.2 U
99-87-6	4-Isopropyltoluene	0.2	< 0.2 U
104-51-8	n-Butylbenzene	0.2	< 0.2 U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5 U
91-20-3	Naphthalene	0.5	< 0.5 U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%
d8-Toluene	100%
Bromofluorobenzene	87.8%
d4-1,2-Dichlorobenzene	107%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-108**
Page 1 of 2 **SAMPLE**

Lab Sample ID: HJ95J
LIMS ID: 04-20665
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Instrument/Analyst: FINN1/PAB
Date Analyzed: 12/03/04 19:16

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**3.1**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2 U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2 U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2 U
107-02-8	Acrolein	5.0	< 5.0 U
74-88-4	Methyl Iodide	0.2	< 0.2 U
74-96-4	Bromoethane	0.2	< 0.2 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	0.2	< 0.2 U
74-95-3	Dibromomethane	0.2	< 0.2 U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2 U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	< 2.0 U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-108**
Page 2 of 2 **SAMPLE**

Lab Sample ID: HJ95J
LIMS ID: 04-20665
Matrix: Water
Date Analyzed: 12/03/04 19:16

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

CAS Number	Analyte	RL	Result
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0 U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2 U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2 U
87-68-3	Hexachlorobutadiene	0.5	< 0.5 U
106-93-4	Ethylene Dibromide	0.2	< 0.2 U
74-97-5	Bromochloromethane	0.2	< 0.2 U
594-20-7	2,2-Dichloropropane	0.2	< 0.2 U
142-28-9	1,3-Dichloropropane	0.2	< 0.2 U
98-82-8	Isopropylbenzene	0.2	< 0.2 U
103-65-1	n-Propylbenzene	0.2	< 0.2 U
108-86-1	Bromobenzene	0.2	< 0.2 U
95-49-8	2-Chlorotoluene	0.2	< 0.2 U
106-43-4	4-Chlorotoluene	0.2	< 0.2 U
98-06-6	tert-Butylbenzene	0.2	< 0.2 U
135-98-8	sec-Butylbenzene	0.2	< 0.2 U
99-87-6	4-Isopropyltoluene	0.2	< 0.2 U
104-51-8	n-Butylbenzene	0.2	< 0.2 U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5 U
91-20-3	Naphthalene	0.5	< 0.5 U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	97.0%
d8-Toluene	109%
Bromofluorobenzene	92.2%
d4-1,2-Dichlorobenzene	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-112**
Page 1 of 2 **SAMPLE**

Lab Sample ID: HJ95K
LIMS ID: 04-20666
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA) 529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Instrument/Analyst: FINN1/PAB
Date Analyzed: 12/03/04 21:45

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**3.2**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2 U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2 U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2 U
107-02-8	Acrolein	5.0	< 5.0 U
74-88-4	Methyl Iodide	0.2	< 0.2 U
74-96-4	Bromoethane	0.2	< 0.2 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	0.2	< 0.2 U
74-95-3	Dibromomethane	0.2	< 0.2 U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2 U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	< 2.0 U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-112**
Page 2 of 2 **SAMPLE**

Lab Sample ID: HJ95K
LIMS ID: 04-20666
Matrix: Water
Date Analyzed: 12/03/04 21:45

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

CAS Number	Analyte	RL	Result
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0 U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2 U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2 U
87-68-3	Hexachlorobutadiene	0.5	< 0.5 U
106-93-4	Ethylene Dibromide	0.2	< 0.2 U
74-97-5	Bromochloromethane	0.2	< 0.2 U
594-20-7	2,2-Dichloropropane	0.2	< 0.2 U
142-28-9	1,3-Dichloropropane	0.2	< 0.2 U
98-82-8	Isopropylbenzene	0.2	< 0.2 U
103-65-1	n-Propylbenzene	0.2	< 0.2 U
108-86-1	Bromobenzene	0.2	< 0.2 U
95-49-8	2-Chlorotoluene	0.2	< 0.2 U
106-43-4	4-Chlorotoluene	0.2	< 0.2 U
98-06-6	tert-Butylbenzene	0.2	< 0.2 U
135-98-8	sec-Butylbenzene	0.2	< 0.2 U
99-87-6	4-Isopropyltoluene	0.2	< 0.2 U
104-51-8	n-Butylbenzene	0.2	< 0.2 U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5 U
91-20-3	Naphthalene	0.5	< 0.5 U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	103%
d8-Toluene	105%
Bromofluorobenzene	90.0%
d4-1,2-Dichlorobenzene	112%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-109**
Page 1 of 2 **SAMPLE**

Lab Sample ID: HJ95L
LIMS ID: 04-20667
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Instrument/Analyst: FINN1/PAB
Date Analyzed: 12/03/04 22:15

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**8.0**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2 U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2 U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2 U
107-02-8	Acrolein	5.0	< 5.0 U
74-88-4	Methyl Iodide	0.2	< 0.2 U
74-96-4	Bromoethane	0.2	< 0.2 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	0.2	< 0.2 U
74-95-3	Dibromomethane	0.2	< 0.2 U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2 U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	< 2.0 U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-109**
Page 2 of 2 **SAMPLE**

Lab Sample ID: HJ95L
LIMS ID: 04-20667
Matrix: Water
Date Analyzed: 12/03/04 22:15

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

CAS Number	Analyte	RL	Result
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0 U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2 U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2 U
87-68-3	Hexachlorobutadiene	0.5	< 0.5 U
106-93-4	Ethylene Dibromide	0.2	< 0.2 U
74-97-5	Bromochloromethane	0.2	< 0.2 U
594-20-7	2,2-Dichloropropane	0.2	< 0.2 U
142-28-9	1,3-Dichloropropane	0.2	< 0.2 U
98-82-8	Isopropylbenzene	0.2	< 0.2 U
103-65-1	n-Propylbenzene	0.2	< 0.2 U
108-86-1	Bromobenzene	0.2	< 0.2 U
95-49-8	2-Chlorotoluene	0.2	< 0.2 U
106-43-4	4-Chlorotoluene	0.2	< 0.2 U
98-06-6	tert-Butylbenzene	0.2	< 0.2 U
135-98-8	sec-Butylbenzene	0.2	< 0.2 U
99-87-6	**4-Isopropyltoluene**	**0.2**	**3.3**
104-51-8	n-Butylbenzene	0.2	< 0.2 U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5 U
91-20-3	Naphthalene	0.5	< 0.5 U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	109%
d8-Toluene	102%
Bromofluorobenzene	92.2%
d4-1,2-Dichlorobenzene	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-110**
Page 1 of 2 **SAMPLE**

Lab Sample ID: HJ95M
LIMS ID: 04-20668
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Instrument/Analyst: FINN1/PAB
Date Analyzed: 12/06/04 16:08

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	Methylene Chloride	0.3	< 0.3 U
67-64-1	**Acetone**	**1.0**	**3.6**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	**2-Butanone**	**1.0**	**2.7**
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	**Toluene**	**0.2**	**1.6**
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2 U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2 U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2 U
107-02-8	Acrolein	5.0	< 5.0 U
74-88-4	Methyl Iodide	0.2	< 0.2 U
74-96-4	Bromoethane	0.2	< 0.2 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	0.2	< 0.2 U
74-95-3	Dibromomethane	0.2	< 0.2 U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2 U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	< 2.0 U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-110**
Page 2 of 2 **SAMPLE**

Lab Sample ID: HJ95M
LIMS ID: 04-20668
Matrix: Water
Date Analyzed: 12/06/04 16:08

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

CAS Number	Analyte	RL	Result
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0 U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2 U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2 U
87-68-3	Hexachlorobutadiene	0.5	< 0.5 U
106-93-4	Ethylene Dibromide	0.2	< 0.2 U
74-97-5	Bromochloromethane	0.2	< 0.2 U
594-20-7	2,2-Dichloropropane	0.2	< 0.2 U
142-28-9	1,3-Dichloropropane	0.2	< 0.2 U
98-82-8	Isopropylbenzene	0.2	< 0.2 U
103-65-1	n-Propylbenzene	0.2	< 0.2 U
108-86-1	Bromobenzene	0.2	< 0.2 U
95-49-8	2-Chlorotoluene	0.2	< 0.2 U
106-43-4	4-Chlorotoluene	0.2	< 0.2 U
98-06-6	tert-Butylbenzene	0.2	< 0.2 U
135-98-8	sec-Butylbenzene	0.2	< 0.2 U
99-87-6	4-Isopropyltoluene	0.2	< 0.2 U
104-51-8	n-Butylbenzene	0.2	< 0.2 U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5 U
91-20-3	Naphthalene	0.5	< 0.5 U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	95.2%
d8-Toluene	102%
Bromofluorobenzene	86.5%
d4-1,2-Dichlorobenzene	93.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: Trip Blank**
Page 1 of 2 **SAMPLE**

Lab Sample ID: HJ95N
LIMS ID: 04-20669
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA) 529009
Date Sampled:
Date Received: 11/24/04

Instrument/Analyst: FINN1/PAB
Date Analyzed: 12/06/04 16:40

Sample Amount: 20.0 mL
Purge Volume: 20.0 mL

CAS Number	Analyte	RL	Result
74-87-3	Chloromethane	0.2	< 0.2 U
74-83-9	Bromomethane	0.2	< 0.2 U
75-00-3	Chloroethane	0.2	< 0.2 U
75-09-2	**Methylene Chloride**	**0.3**	**0.5 B**
67-64-1	**Acetone**	**1.0**	**1.5**
75-15-0	Carbon Disulfide	0.2	< 0.2 U
75-35-4	1,1-Dichloroethene	0.2	< 0.2 U
75-34-3	1,1-Dichloroethane	0.2	< 0.2 U
156-60-5	trans-1,2-Dichloroethene	0.2	< 0.2 U
156-59-2	cis-1,2-Dichloroethene	0.2	< 0.2 U
67-66-3	Chloroform	0.2	< 0.2 U
107-06-2	1,2-Dichloroethane	0.2	< 0.2 U
78-93-3	2-Butanone	1.0	< 1.0 U
71-55-6	1,1,1-Trichloroethane	0.2	< 0.2 U
56-23-5	Carbon Tetrachloride	0.2	< 0.2 U
108-05-4	Vinyl Acetate	0.2	< 0.2 U
75-27-4	Bromodichloromethane	0.2	< 0.2 U
78-87-5	1,2-Dichloropropane	0.2	< 0.2 U
10061-01-5	cis-1,3-Dichloropropene	0.2	< 0.2 U
79-01-6	Trichloroethene	0.2	< 0.2 U
124-48-1	Dibromochloromethane	0.2	< 0.2 U
79-00-5	1,1,2-Trichloroethane	0.2	< 0.2 U
71-43-2	Benzene	0.2	< 0.2 U
10061-02-6	trans-1,3-Dichloropropene	0.2	< 0.2 U
110-75-8	2-Chloroethylvinylether	0.5	< 0.5 U
75-25-2	Bromoform	0.2	< 0.2 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	1.0	< 1.0 U
591-78-6	2-Hexanone	1.0	< 1.0 U
127-18-4	Tetrachloroethene	0.2	< 0.2 U
79-34-5	1,1,2,2-Tetrachloroethane	0.2	< 0.2 U
108-88-3	Toluene	0.2	< 0.2 U
108-90-7	Chlorobenzene	0.2	< 0.2 U
100-41-4	Ethylbenzene	0.2	< 0.2 U
100-42-5	Styrene	0.2	< 0.2 U
75-69-4	Trichlorofluoromethane	0.2	< 0.2 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroe	0.2	< 0.2 U
1330-20-7	m,p-Xylene	0.4	< 0.4 U
95-47-6	o-Xylene	0.2	< 0.2 U
95-50-1	1,2-Dichlorobenzene	0.2	< 0.2 U
541-73-1	1,3-Dichlorobenzene	0.2	< 0.2 U
106-46-7	1,4-Dichlorobenzene	0.2	< 0.2 U
107-02-8	Acrolein	5.0	< 5.0 U
74-88-4	Methyl Iodide	0.2	< 0.2 U
74-96-4	Bromoethane	0.2	< 0.2 U
107-13-1	Acrylonitrile	1.0	< 1.0 U
563-58-6	1,1-Dichloropropene	0.2	< 0.2 U
74-95-3	Dibromomethane	0.2	< 0.2 U
630-20-6	1,1,1,2-Tetrachloroethane	0.2	< 0.2 U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	< 2.0 U
96-18-4	1,2,3-Trichloropropane	0.5	< 0.5 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: Trip Blank**
 SAMPLE

Lab Sample ID: HJ95N
LIMS ID: 04-20669
Matrix: Water
Date Analyzed: 12/06/04 16:40

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

CAS Number	Analyte	RL	Result
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0 U
108-67-8	1,3,5-Trimethylbenzene	0.2	< 0.2 U
95-63-6	1,2,4-Trimethylbenzene	0.2	< 0.2 U
87-68-3	Hexachlorobutadiene	0.5	< 0.5 U
106-93-4	Ethylene Dibromide	0.2	< 0.2 U
74-97-5	Bromochloromethane	0.2	< 0.2 U
594-20-7	2,2-Dichloropropane	0.2	< 0.2 U
142-28-9	1,3-Dichloropropane	0.2	< 0.2 U
98-82-8	Isopropylbenzene	0.2	< 0.2 U
103-65-1	n-Propylbenzene	0.2	< 0.2 U
108-86-1	Bromobenzene	0.2	< 0.2 U
95-49-8	2-Chlorotoluene	0.2	< 0.2 U
106-43-4	4-Chlorotoluene	0.2	< 0.2 U
98-06-6	tert-Butylbenzene	0.2	< 0.2 U
135-98-8	sec-Butylbenzene	0.2	< 0.2 U
99-87-6	4-Isopropyltoluene	0.2	< 0.2 U
104-51-8	n-Butylbenzene	0.2	< 0.2 U
120-82-1	1,2,4-Trichlorobenzene	0.5	< 0.5 U
91-20-3	Naphthalene	0.5	< 0.5 U
87-61-6	1,2,3-Trichlorobenzene	0.5	< 0.5 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	96.2%
d8-Toluene	99.8%
Bromofluorobenzene	86.5%
d4-1,2-Dichlorobenzene	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-111**
Page 1 of 2 **MS/MSD**

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Instrument/Analyst MS: FINN1/PAB
MSD: FINN1/PAB
Date Analyzed MS: 12/03/04 16:17
MSD: 12/03/04 16:47

Sample Amount MS: 20.0 mL
MSD: 20.0 mL
Purge Volume MS: 20.0 mL
MSD: 20.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Chloromethane	< 0.2	3.7	4.0	92.5%	3.8	4.0	95.0%	2.7%
Bromomethane	< 0.2	3.7	4.0	92.5%	3.6	4.0	90.0%	2.7%
Chloroethane	< 0.2	3.8	4.0	95.0%	3.8	4.0	95.0%	0.0%
Methylene Chloride	< 0.3	4.2	4.0	105%	3.9	4.0	97.5%	7.4%
Acetone	2.8	21.8	20.0	95.0%	20.5	20.0	88.5%	6.1%
Carbon Disulfide	< 0.2	2.9	4.0	72.5%	3.2	4.0	80.0%	9.8%
1,1-Dichloroethene	< 0.2	4.0	4.0	100%	3.9	4.0	97.5%	2.5%
1,1-Dichloroethane	< 0.2	3.0	4.0	75.0%	3.4	4.0	85.0%	12.5%
trans-1,2-Dichloroethene	< 0.2	3.1	4.0	77.5%	3.4	4.0	85.0%	9.2%
cis-1,2-Dichloroethene	< 0.2	3.2	4.0	80.0%	3.4	4.0	85.0%	6.1%
Chloroform	< 0.2	3.4	4.0	85.0%	3.4	4.0	85.0%	0.0%
1,2-Dichloroethane	< 0.2	3.6	4.0	90.0%	3.6	4.0	90.0%	0.0%
2-Butanone	< 1.0	19.0	20.0	95.0%	17.6	20.0	88.0%	7.7%
1,1,1-Trichloroethane	< 0.2	3.4	4.0	85.0%	3.5	4.0	87.5%	2.9%
Carbon Tetrachloride	< 0.2	3.6	4.0	90.0%	3.7	4.0	92.5%	2.7%
Vinyl Acetate	< 0.2	3.8	4.0	95.0%	3.8	4.0	95.0%	0.0%
Bromodichloromethane	< 0.2	3.1	4.0	77.5%	3.2	4.0	80.0%	3.2%
1,2-Dichloropropane	< 0.2	3.4	4.0	85.0%	3.6	4.0	90.0%	5.7%
cis-1,3-Dichloropropene	< 0.2	3.5	4.0	87.5%	3.2	4.0	80.0%	9.0%
Trichloroethene	< 0.2	3.5	4.0	87.5%	3.5	4.0	87.5%	0.0%
Dibromochloromethane	< 0.2	3.1	4.0	77.5%	3.0	4.0	75.0%	3.3%
1,1,2-Trichloroethane	< 0.2	3.5	4.0	87.5%	3.1	4.0	77.5%	12.1%
Benzene	< 0.2	3.5	4.0	87.5%	3.8	4.0	95.0%	8.2%
trans-1,3-Dichloropropene	< 0.2	3.5	4.0	87.5%	3.1	4.0	77.5%	12.1%
2-Chloroethylvinylether	< 0.5	< 0.5	4.0	NA	< 0.5	4.0	NA	NA
Bromoform	< 0.2	3.2	4.0	80.0%	3.3	4.0	82.5%	3.1%
4-Methyl-2-Pentanone (MIBK)	< 1.0	20.8	20.0	104%	19.3	20.0	96.5%	7.5%
2-Hexanone	< 1.0	20.9	20.0	104%	20.6	20.0	103%	1.4%
Tetrachloroethene	< 0.2	3.3	4.0	82.5%	3.4	4.0	85.0%	3.0%
1,1,2,2-Tetrachloroethane	< 0.2	3.0	4.0	75.0%	3.4	4.0	85.0%	12.5%
Toluene	< 0.2	3.8	4.0	95.0%	3.6	4.0	90.0%	5.4%
Chlorobenzene	< 0.2	3.5	4.0	87.5%	3.7	4.0	92.5%	5.6%
Ethylbenzene	< 0.2	4.0	4.0	100%	4.3	4.0	108%	7.2%
Styrene	< 0.2	3.3	4.0	82.5%	3.4	4.0	85.0%	3.0%
Trichlorofluoromethane	< 0.2	4.1	4.0	102%	3.9	4.0	97.5%	5.0%
1,1,2-Trichloro-1,2,2-trifl	< 0.2	4.0	4.0	100%	3.9	4.0	97.5%	2.5%
m,p-Xylene	< 0.4	7.9	8.0	98.8%	8.2	8.0	102%	3.7%
o-Xylene	< 0.2	3.3	4.0	82.5%	3.5	4.0	87.5%	5.9%
1,2-Dichlorobenzene	< 0.2	3.5	4.0	87.5%	3.8	4.0	95.0%	8.2%
1,3-Dichlorobenzene	< 0.2	3.6	4.0	90.0%	3.8	4.0	95.0%	5.4%
1,4-Dichlorobenzene	< 0.2	3.4	4.0	85.0%	3.7	4.0	92.5%	8.5%
Acrolein	< 5.0	22.0	20.0	110%	19.6	20.0	98.0%	11.5%
Methyl Iodide	< 0.2	4.2	4.0	105%	4.0	4.0	100%	4.9%
Bromoethane	< 0.2	4.1	4.0	102%	4.0	4.0	100%	2.5%
Acrylonitrile	< 1.0	3.6	4.0	90.0%	3.2	4.0	80.0%	11.8%
1,1-Dichloropropene	< 0.2	3.2	4.0	80.0%	3.4	4.0	85.0%	6.1%
Dibromomethane	< 0.2	3.7	4.0	92.5%	4.0	4.0	100%	7.8%
1,1,1,2-Tetrachloroethane	< 0.2	3.5	4.0	87.5%	3.5	4.0	87.5%	0.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: MW-111**
 MS/MSD

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Date Analyzed MS: 12/03/04 16:17
MSD: 12/03/04 16:47

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Purge Volume MS: 20.0 mL
MSD: 20.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
1,2-Dibromo-3-chloropropane	< 2.0	4.0	4.0	100%	4.2	4.0	105%	4.9%
1,2,3-Trichloropropane	< 0.5	3.5	4.0	87.5%	3.9	4.0	97.5%	10.8%
trans-1,4-Dichloro-2-butene	< 1.0	3.7	4.0	92.5%	4.1	4.0	102%	10.3%
1,3,5-Trimethylbenzene	< 0.2	3.7	4.0	92.5%	4.2	4.0	105%	12.7%
1,2,4-Trimethylbenzene	< 0.2	3.9	4.0	97.5%	4.3	4.0	108%	9.8%
Hexachlorobutadiene	< 0.5	3.2	4.0	80.0%	3.7	4.0	92.5%	14.5%
Ethylene Dibromide	< 0.2	3.9	4.0	97.5%	3.6	4.0	90.0%	8.0%
Bromochloromethane	< 0.2	3.8	4.0	95.0%	3.8	4.0	95.0%	0.0%
2,2-Dichloropropane	< 0.2	3.2	4.0	80.0%	3.4	4.0	85.0%	6.1%
1,3-Dichloropropane	< 0.2	3.4	4.0	85.0%	3.5	4.0	87.5%	2.9%
Isopropylbenzene	< 0.2	3.7	4.0	92.5%	4.2	4.0	105%	12.7%
n-Propylbenzene	< 0.2	3.9	4.0	97.5%	4.2	4.0	105%	7.4%
Bromobenzene	< 0.2	3.5	4.0	87.5%	3.5	4.0	87.5%	0.0%
2-Chlorotoluene	< 0.2	4.0	4.0	100%	3.9	4.0	97.5%	2.5%
4-Chlorotoluene	< 0.2	3.6	4.0	90.0%	4.3	4.0	108%	17.7%
tert-Butylbenzene	< 0.2	3.6	4.0	90.0%	4.2	4.0	105%	15.4%
sec-Butylbenzene	< 0.2	4.0	4.0	100%	4.5	4.0	112%	11.8%
4-Isopropyltoluene	< 0.2	3.7	4.0	92.5%	4.2	4.0	105%	12.7%
n-Butylbenzene	< 0.2	3.8	4.0	95.0%	4.3	4.0	108%	12.3%
1,2,4-Trichlorobenzene	< 0.5	3.2	4.0	80.0%	3.7	4.0	92.5%	14.5%
Naphthalene	< 0.5	3.4	4.0	85.0%	3.9	4.0	97.5%	13.7%
1,2,3-Trichlorobenzene	< 0.5	3.5	4.0	87.5%	3.8	4.0	95.0%	8.2%

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

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-120304**
Page 1 of 2 **LCS/LCSD**

Lab Sample ID: LCS-120304 QC Report No: HJ95-Landau Associates
LIMS ID: 04-20656 Project: Port of Anacortes (POA)
Matrix: Water 529009
Data Release Authorized: Date Sampled: NA
Reported: 12/07/04 Date Received: NA

Instrument/Analyst LCS: FINN1/PAB Sample Amount LCS: 20.0 mL
LCSD: FINN1/PAB LCSD: 20.0 mL
Date Analyzed LCS: 12/03/04 11:35 Purge Volume LCS: 20.0 mL
LCSD: 12/03/04 12:15 LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	3.3	4.0	82.5%	3.3	4.0	82.5%	0.0%
Bromomethane	3.6	4.0	90.0%	3.5	4.0	87.5%	2.8%
Chloroethane	3.7	4.0	92.5%	3.6	4.0	90.0%	2.7%
Methylene Chloride	4.0	4.0	100%	4.1	4.0	102%	2.5%
Acetone	19.8	20.0	99.0%	19.4	20.0	97.0%	2.0%
Carbon Disulfide	3.0	4.0	75.0%	3.4	4.0	85.0%	12.5%
1,1-Dichloroethene	3.8	4.0	95.0%	3.8	4.0	95.0%	0.0%
1,1-Dichloroethane	3.1	4.0	77.5%	3.4	4.0	85.0%	9.2%
trans-1,2-Dichloroethene	3.0	4.0	75.0%	3.5	4.0	87.5%	15.4%
cis-1,2-Dichloroethene	3.3	4.0	82.5%	3.5	4.0	87.5%	5.9%
Chloroform	3.4	4.0	85.0%	3.6	4.0	90.0%	5.7%
1,2-Dichloroethane	3.6	4.0	90.0%	4.0	4.0	100%	10.5%
2-Butanone	18.0	20.0	90.0%	20.4	20.0	102%	12.5%
1,1,1-Trichloroethane	3.6	4.0	90.0%	3.8	4.0	95.0%	5.4%
Carbon Tetrachloride	3.8	4.0	95.0%	3.9	4.0	97.5%	2.6%
Vinyl Acetate	3.5	4.0	87.5%	3.8	4.0	95.0%	8.2%
Bromodichloromethane	3.1	4.0	77.5%	3.5	4.0	87.5%	12.1%
1,2-Dichloropropane	3.5	4.0	87.5%	3.8	4.0	95.0%	8.2%
cis-1,3-Dichloropropene	3.3	4.0	82.5%	3.5	4.0	87.5%	5.9%
Trichloroethene	3.5	4.0	87.5%	3.7	4.0	92.5%	5.6%
Dibromochloromethane	3.4	4.0	85.0%	3.3	4.0	82.5%	3.0%
1,1,2-Trichloroethane	3.2	4.0	80.0%	3.4	4.0	85.0%	6.1%
Benzene	3.5	4.0	87.5%	3.9	4.0	97.5%	10.8%
trans-1,3-Dichloropropene	3.3	4.0	82.5%	3.4	4.0	85.0%	3.0%
2-Chloroethylvinylether	3.0	4.0	75.0%	3.2	4.0	80.0%	6.5%
Bromoform	3.4	4.0	85.0%	3.6	4.0	90.0%	5.7%
4-Methyl-2-Pentanone (MIBK)	19.2	20.0	96.0%	20.0	20.0	100%	4.1%
2-Hexanone	19.9	20.0	99.5%	19.3	20.0	96.5%	3.1%
Tetrachloroethene	3.8	4.0	95.0%	3.6	4.0	90.0%	5.4%
1,1,2,2-Tetrachloroethane	3.2	4.0	80.0%	3.5	4.0	87.5%	9.0%
Toluene	3.6	4.0	90.0%	3.8	4.0	95.0%	5.4%
Chlorobenzene	3.7	4.0	92.5%	3.8	4.0	95.0%	2.7%
Ethylbenzene	4.4	4.0	110%	4.3	4.0	108%	2.3%
Styrene	3.6	4.0	90.0%	3.6	4.0	90.0%	0.0%
Trichlorofluoromethane	4.0	4.0	100%	3.7	4.0	92.5%	7.8%
1,1,2-Trichloro-1,2,2-trifl	4.0	4.0	100%	4.0	4.0	100%	0.0%
m,p-Xylene	8.6	8.0	108%	8.5	8.0	106%	1.2%
o-Xylene	3.5	4.0	87.5%	3.5	4.0	87.5%	0.0%
1,2-Dichlorobenzene	3.7	4.0	92.5%	3.8	4.0	95.0%	2.7%
1,3-Dichlorobenzene	3.8	4.0	95.0%	3.8	4.0	95.0%	0.0%
1,4-Dichlorobenzene	3.7	4.0	92.5%	3.8	4.0	95.0%	2.7%
Acrolein	21.9	20.0	110%	22.2	20.0	111%	1.4%
Methyl Iodide	4.0	4.0	100%	3.7	4.0	92.5%	7.8%
Bromoethane	3.8	4.0	95.0%	3.7	4.0	92.5%	2.7%
Acrylonitrile	3.9	4.0	97.5%	4.3	4.0	108%	9.8%
1,1-Dichloropropene	3.3	4.0	82.5%	3.7	4.0	92.5%	11.4%
Dibromomethane	3.5	4.0	87.5%	4.0	4.0	100%	13.3%
1,1,1,2-Tetrachloroethane	3.8	4.0	95.0%	3.6	4.0	90.0%	5.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-120304**
 LCS/LCSD

Lab Sample ID: LCS-120304 QC Report No: HJ95-Landau Associates
LIMS ID: 04-20656 Project: Port of Anacortes (POA)
Matrix: Water 529009
Date Analyzed: 12/03/04 11:35 Purge Volume: 20.0 mL
LCSD: 12/03/04 12:15 LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
1,2-Dibromo-3-chloropropane	4.0	4.0	100%	4.3	4.0	108%	7.2%
1,2,3-Trichloropropane	3.6	4.0	90.0%	4.3	4.0	108%	17.7%
trans-1,4-Dichloro-2-butene	3.7	4.0	92.5%	4.2	4.0	105%	12.7%
1,3,5-Trimethylbenzene	4.0	4.0	100%	4.2	4.0	105%	4.9%
1,2,4-Trimethylbenzene	4.2	4.0	105%	4.4	4.0	110%	4.7%
Hexachlorobutadiene	3.8	4.0	95.0%	3.3	4.0	82.5%	14.1%
Ethylene Dibromide	3.7	4.0	92.5%	4.0	4.0	100%	7.8%
Bromochloromethane	3.6	4.0	90.0%	3.9	4.0	97.5%	8.0%
2,2-Dichloropropane	3.6	4.0	90.0%	3.8	4.0	95.0%	5.4%
1,3-Dichloropropane	3.6	4.0	90.0%	3.8	4.0	95.0%	5.4%
Isopropylbenzene	4.0	4.0	100%	4.2	4.0	105%	4.9%
n-Propylbenzene	4.4	4.0	110%	4.4	4.0	110%	0.0%
Bromobenzene	3.6	4.0	90.0%	3.8	4.0	95.0%	5.4%
2-Chlorotoluene	4.0	4.0	100%	4.0	4.0	100%	0.0%
4-Chlorotoluene	4.0	4.0	100%	4.3	4.0	108%	7.2%
tert-Butylbenzene	4.0	4.0	100%	4.0	4.0	100%	0.0%
sec-Butylbenzene	4.4	4.0	110%	4.4	4.0	110%	0.0%
4-Isopropyltoluene	4.3	4.0	108%	4.4	4.0	110%	2.3%
n-Butylbenzene	4.3	4.0	108%	4.4	4.0	110%	2.3%
1,2,4-Trichlorobenzene	3.6	4.0	90.0%	3.5	4.0	87.5%	2.8%
Naphthalene	3.6	4.0	90.0%	3.4	4.0	85.0%	5.7%
1,2,3-Trichlorobenzene	3.7	4.0	92.5%	3.4	4.0	85.0%	8.5%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.
LCS spike recovery is evaluated using only the nine regulated compounds noted in the ARI LQAP. The other LCS spike compound recoveries are advisory and used for analytical troubleshooting should any of the nine regulated compounds be out of control.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	87.1%	90.2%
d8-Toluene	89.6%	94.0%
Bromofluorobenzene	94.2%	86.5%
d4-1,2-Dichlorobenzene	94.5%	86.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-120604**
 LCS/LCSD

Lab Sample ID: LCS-120604 QC Report No: HJ95-Landau Associates
LIMS ID: 04-20668 Project: Port of Anacortes (POA)
Matrix: Water 529009
Data Release Authorized: Date Sampled: NA
Reported: 12/07/04 Date Received: NA

Instrument/Analyst LCS: FINN1/PAB Sample Amount LCS: 20.0 mL
LCSD: FINN1/PAB LCSD: 20.0 mL
Date Analyzed LCS: 12/06/04 11:34 Purge Volume LCS: 20.0 mL
LCSD: 12/06/04 12:18 LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	3.4	4.0	85.0%	3.4	4.0	85.0%	0.0%
Bromomethane	3.1	4.0	77.5%	2.8	4.0	70.0%	10.2%
Chloroethane	4.0	4.0	100%	4.0	4.0	100%	0.0%
Methylene Chloride	4.1	4.0	102%	4.1	4.0	102%	0.0%
Acetone	20.5	20.0	102%	19.5	20.0	97.5%	5.0%
Carbon Disulfide	3.9	4.0	97.5%	3.6	4.0	90.0%	8.0%
1,1-Dichloroethene	4.5	4.0	112%	4.4	4.0	110%	2.2%
1,1-Dichloroethane	3.5	4.0	87.5%	3.8	4.0	95.0%	8.2%
trans-1,2-Dichloroethene	3.4	4.0	85.0%	3.5	4.0	87.5%	2.9%
cis-1,2-Dichloroethene	3.6	4.0	90.0%	3.5	4.0	87.5%	2.8%
Chloroform	3.8	4.0	95.0%	3.9	4.0	97.5%	2.6%
1,2-Dichloroethane	3.7	4.0	92.5%	3.6	4.0	90.0%	2.7%
2-Butanone	17.9	20.0	89.5%	19.4	20.0	97.0%	8.0%
1,1,1-Trichloroethane	4.1	4.0	102%	4.2	4.0	105%	2.4%
Carbon Tetrachloride	4.2	4.0	105%	4.2	4.0	105%	0.0%
Vinyl Acetate	3.7	4.0	92.5%	4.1	4.0	102%	10.3%
Bromodichloromethane	3.6	4.0	90.0%	3.5	4.0	87.5%	2.8%
1,2-Dichloropropane	4.0	4.0	100%	3.8	4.0	95.0%	5.1%
cis-1,3-Dichloropropene	3.9	4.0	97.5%	3.8	4.0	95.0%	2.6%
Trichloroethene	3.8	4.0	95.0%	3.8	4.0	95.0%	0.0%
Dibromochloromethane	3.7	4.0	92.5%	3.6	4.0	90.0%	2.7%
1,1,2-Trichloroethane	3.2	4.0	80.0%	3.5	4.0	87.5%	9.0%
Benzene	3.9	4.0	97.5%	3.9	4.0	97.5%	0.0%
trans-1,3-Dichloropropene	3.7	4.0	92.5%	3.9	4.0	97.5%	5.3%
2-Chloroethylvinylether	3.0	4.0	75.0%	3.2	4.0	80.0%	6.5%
Bromoform	3.8	4.0	95.0%	3.6	4.0	90.0%	5.4%
4-Methyl-2-Pentanone (MIBK)	19.1	20.0	95.5%	20.9	20.0	104%	9.0%
2-Hexanone	19.7	20.0	98.5%	19.5	20.0	97.5%	1.0%
Tetrachloroethene	4.0	4.0	100%	3.7	4.0	92.5%	7.8%
1,1,2,2-Tetrachloroethane	3.5	4.0	87.5%	3.6	4.0	90.0%	2.8%
Toluene	4.0	4.0	100%	4.0	4.0	100%	0.0%
Chlorobenzene	4.0	4.0	100%	3.9	4.0	97.5%	2.5%
Ethylbenzene	4.7	4.0	118%	4.5	4.0	112%	4.3%
Styrene	3.7	4.0	92.5%	3.8	4.0	95.0%	2.7%
Trichlorofluoromethane	4.6	4.0	115%	4.3	4.0	108%	6.7%
1,1,2-Trichloro-1,2,2-trifl	4.6	4.0	115%	4.4	4.0	110%	4.4%
m,p-Xylene	9.2	8.0	115%	9.1	8.0	114%	1.1%
o-Xylene	3.7	4.0	92.5%	3.6	4.0	90.0%	2.7%
1,2-Dichlorobenzene	3.8	4.0	95.0%	3.8	4.0	95.0%	0.0%
1,3-Dichlorobenzene	4.0	4.0	100%	4.0	4.0	100%	0.0%
1,4-Dichlorobenzene	4.1	4.0	102%	4.0	4.0	100%	2.5%
Acrolein	21.5	20.0	108%	22.7	20.0	114%	5.4%
Methyl Iodide	3.1	4.0	77.5%	2.9	4.0	72.5%	6.7%
Bromoethane	4.5	4.0	112%	4.2	4.0	105%	6.9%
Acrylonitrile	2.9	4.0	72.5%	3.6	4.0	90.0%	21.5%
1,1-Dichloropropene	3.7	4.0	92.5%	3.6	4.0	90.0%	2.7%
Dibromomethane	4.0	4.0	100%	4.2	4.0	105%	4.9%
1,1,1,2-Tetrachloroethane	3.9	4.0	97.5%	3.9	4.0	97.5%	0.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method 8260B **Sample ID: LCS-120604**
 LCS/LCSD

Lab Sample ID: LCS-120604
LIMS ID: 04-20668
Matrix: Water
Date Analyzed: 12/06/04 11:34
LCSD: 12/06/04 12:18

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Purge Volume: 20.0 mL
LCSD: 20.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
1,2-Dibromo-3-chloropropane	4.2	4.0	105%	4.5	4.0	112%	6.9%
1,2,3-Trichloropropane	3.7	4.0	92.5%	4.1	4.0	102%	10.3%
trans-1,4-Dichloro-2-butene	3.8	4.0	95.0%	4.2	4.0	105%	10.0%
1,3,5-Trimethylbenzene	4.6	4.0	115%	4.5	4.0	112%	2.2%
1,2,4-Trimethylbenzene	4.7	4.0	118%	4.6	4.0	115%	2.2%
Hexachlorobutadiene	4.0	4.0	100%	3.9	4.0	97.5%	2.5%
Ethylene Dibromide	3.9	4.0	97.5%	3.9	4.0	97.5%	0.0%
Bromochloromethane	3.9	4.0	97.5%	4.0	4.0	100%	2.5%
2,2-Dichloropropane	4.2	4.0	105%	4.2	4.0	105%	0.0%
1,3-Dichloropropane	3.7	4.0	92.5%	3.7	4.0	92.5%	0.0%
Isopropylbenzene	4.7	4.0	118%	4.5	4.0	112%	4.3%
n-Propylbenzene	4.8	4.0	120%	4.6	4.0	115%	4.3%
Bromobenzene	3.8	4.0	95.0%	3.8	4.0	95.0%	0.0%
2-Chlorotoluene	4.5	4.0	112%	4.1	4.0	102%	9.3%
4-Chlorotoluene	4.5	4.0	112%	4.6	4.0	115%	2.2%
tert-Butylbenzene	4.3	4.0	108%	4.2	4.0	105%	2.4%
sec-Butylbenzene	5.0	4.0	125%	4.7	4.0	118%	6.2%
4-Isopropyltoluene	4.7	4.0	118%	4.6	4.0	115%	2.2%
n-Butylbenzene	4.8	4.0	120%	4.8	4.0	120%	0.0%
1,2,4-Trichlorobenzene	3.7	4.0	92.5%	3.8	4.0	95.0%	2.7%
Naphthalene	3.4	4.0	85.0%	3.6	4.0	90.0%	5.7%
1,2,3-Trichlorobenzene	3.7	4.0	92.5%	3.8	4.0	95.0%	2.7%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.
LCS spike recovery is evaluated using only the nine regulated compounds noted in the ARI LQAP. The other LCS spike compound recoveries are advisory and used for analytical troubleshooting should any of the nine regulated compounds be out of control.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	93.9%	90.7%
d8-Toluene	98.7%	95.7%
Bromofluorobenzene	92.8%	95.0%
d4-1,2-Dichlorobenzene	95.3%	96.3%

ANALYTICAL RESOURCES INCORPORATED

WATER VOLATILE SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water (Low Level) QC Report No: HJ95

Lab ID	Client ID	DCE	TOL	BFB	DCB	TOT OUT
120304MB	Method Blank	101%	105%	92.6%	106%	0
HJ95LCS	Lab Control	87.1%	89.6%	94.2%	94.5%	0
HJ95LCD	LCDuplicate	90.2%	94.0%	86.5%	86.7%	0
HJ95A	MW-111	95.0%	102%	91.0%	110%	0
HJ95AMS	MW-111	97.6%	106%	88.7%	97.5%	0
HJ95AMSD	MW-111	89.1%	95.7%	88.2%	96.6%	0
HJ95B	MW-101	106%	98.8%	88.0%	110%	0
HJ95C	MW-105	101%	98.0%	83.5%	99.2%	0
HJ95D	MW-106	108%	108%	95.0%	107%	0
HJ95E	MW-107	110%	111%	95.8%	106%	0
HJ95F	MW-202	106%	111%	94.2%	105%	0
HJ95G	MW-102	101%	98.2%	89.2%	99.0%	0
HJ95H	MW-104	105%	102%	92.8%	104%	0
HJ95I	MW-103	102%	100%	87.8%	107%	0
HJ95J	MW-108	97.0%	109%	92.2%	101%	0
HJ95K	MW-112	103%	105%	90.0%	112%	0
HJ95L	MW-109	109%	102%	92.2%	102%	0
120604MB	Method Blank	110%	109%	92.9%	105%	0
HJ95LCS	Lab Control	93.9%	98.7%	92.8%	95.3%	0
HJ95LCD	LCDuplicate	90.7%	95.7%	95.0%	96.3%	0
HJ95M	MW-110	95.2%	102%	86.5%	93.2%	0
HJ95N	Trip Blank	96.2%	99.8%	86.5%	102%	0

SW8260B	LCS/MB LIMITS	QC LIMITS
(DCE) = 1,2-Dichloroethane-d4	(68-126)	(62-138)
(TOL) = Toluene-d8	(59-121)	(66-124)
(BFB) = Bromofluorobenzene	(62-117)	(60-111)
(DCB) = 1,2-Dichlorobenzene-d4	(77-122)	(77-127)

\# Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Selected Ion Monitoring GC/MS **Sample ID: MB-112904**
Page 1 of 1 **METHOD BLANK**

Lab Sample ID: MB-112904
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA) 529009
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT5/PKC
Date Analyzed: 11/29/04 12:28

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result
75-01-4	Vinyl Chloride	0.020	< 0.020 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	95.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Selected Ion Monitoring GC/MS **Sample ID: MB-113004**
Page 1 of 1 **METHOD BLANK**

Lab Sample ID: MB-113004
LIMS ID: 04-20657
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT5/PKC
Date Analyzed: 11/30/04 14:11

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result
75-01-4	Vinyl Chloride	0.020	< 0.020 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Selected Ion Monitoring GC/MS **Sample ID: MW-111**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Instrument/Analyst: NT5/PKC
Date Analyzed: 11/29/04 13:36

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result
75-01-4	Vinyl Chloride	0.020	< 0.020 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	95.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Selected Ion Monitoring GC/MS **Sample ID: MW-111**
Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Instrument/Analyst: NT5/PKC
Date Analyzed: 11/29/04 14:03

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result
75-01-4	Vinyl Chloride	0.020	---

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	111%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Selected Ion Monitoring GC/MS **Sample ID: MW-111**
Page 1 of 1 **MATRIX SPIKE DUPLICATE**

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Instrument/Analyst: NT5/PKC
Date Analyzed: 11/29/04 14:30

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result
75-01-4	Vinyl Chloride	0.020	---

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Selected Ion Monitoring GC/MS **Sample ID: MW-101**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95B
LIMS ID: 04-20657
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Instrument/Analyst: NT5/PKC
Date Analyzed: 11/30/04 15:04

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result
75-01-4	Vinyl Chloride	0.20	< 0.20 Y

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Selected Ion Monitoring GC/MS **Sample ID: MW-105**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95C
LIMS ID: 04-20658
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Instrument/Analyst: NT5/PKC
Date Analyzed: 11/29/04 18:57

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result
75-01-4	Vinyl Chloride	0.10	< 0.10 Y

Reported in µg/L (ppb)

Volatile Surrogate Recovery	
d4-1,2-Dichloroethane	105%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Selected Ion Monitoring GC/MS **Sample ID: MW-106**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95D
LIMS ID: 04-20659
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Instrument/Analyst: NT5/PKC
Date Analyzed: 11/29/04 19:50

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result
75-01-4	Vinyl Chloride	0.10	< 0.10 Y

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	107%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Selected Ion Monitoring GC/MS **Sample ID: MW-107**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95E
LIMS ID: 04-20660
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Instrument/Analyst: NT5/PKC
Date Analyzed: 11/29/04 14:56

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result
75-01-4	Vinyl Chloride	0.020	< 0.020 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Selected Ion Monitoring GC/MS **Sample ID: MW-202**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95F
LIMS ID: 04-20661
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Instrument/Analyst: NT5/PKC
Date Analyzed: 11/29/04 15:23

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result
75-01-4	Vinyl Chloride	0.020	< 0.020 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Selected Ion Monitoring GC/MS **Sample ID: MW-102**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95G
LIMS ID: 04-20662
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Instrument/Analyst: NT5/PKC
Date Analyzed: 11/29/04 15:50

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result
75-01-4	Vinyl Chloride	0.020	< 0.020 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery	
d4-1,2-Dichloroethane	108%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Selected Ion Monitoring GC/MS **Sample ID: MW-104**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95H
LIMS ID: 04-20663
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Instrument/Analyst: NT5/PKC
Date Analyzed: 11/29/04 16:17

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result
75-01-4	Vinyl Chloride	0.020	< 0.020 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	103%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Selected Ion Monitoring GC/MS **Sample ID: MW-103**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95I
LIMS ID: 04-20664
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Instrument/Analyst: NT5/PKC
Date Analyzed: 11/29/04 20:44

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result
75-01-4	Vinyl Chloride	0.020	< 0.020 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	100%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Selected Ion Monitoring GC/MS **Sample ID: MW-108**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95J
LIMS ID: 04-20665
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Instrument/Analyst: NT5/PKC
Date Analyzed: 11/29/04 18:04

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result
75-01-4	Vinyl Chloride	0.10	< 0.10 Y

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	100%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Selected Ion Monitoring GC/MS **Sample ID: MW-112**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95K
LIMS ID: 04-20666
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Instrument/Analyst: NT5/PKC
Date Analyzed: 11/29/04 16:43

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result
75-01-4	Vinyl Chloride	0.020	< 0.020 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery	
d4-1,2-Dichloroethane	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Selected Ion Monitoring GC/MS **Sample ID: MW-109**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95L
LIMS ID: 04-20667
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Instrument/Analyst: NT5/PKC
Date Analyzed: 11/29/04 17:10

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result
75-01-4	Vinyl Chloride	0.020	< 0.020 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	103%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Selected Ion Monitoring GC/MS **Sample ID: MW-110**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95M
LIMS ID: 04-20668
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Instrument/Analyst: NT5/PKC
Date Analyzed: 11/29/04 17:37

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result
75-01-4	Vinyl Chloride	0.020	< 0.020 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Selected Ion Monitoring GC/MS **Sample ID: Trip Blank**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95N
LIMS ID: 04-20669
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA) 529009
Date Sampled:
Date Received: 11/24/04

Instrument/Analyst: NT5/PKC
Date Analyzed: 11/29/04 13:10

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result
75-01-4	Vinyl Chloride	0.020	< 0.020 U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	94.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Selected Ion Monitoring GC/MS **Sample ID: MW-111**
Page 1 of 1 **MS/MSD**

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Instrument/Analyst MS: NT5/PKC
MSD: NT5/PKC
Date Analyzed MS: 11/29/04 14:03
MSD: 11/29/04 14:30

Sample Amount MS: 10.0 mL
MSD: 10.0 mL
Purge Volume MS: 10.0 mL
MSD: 10.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Vinyl Chloride	< 0.020	0.484	0.500	96.8%	0.429	0.500	85.8%	12.0%

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

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Selected Ion Monitoring GC/MS **Sample ID: LCS-112904**
Page 1 of 1 **LCS/LCSD**

Lab Sample ID: LCS-112904 QC Report No: HJ95-Landau Associates
LIMS ID: 04-20656 Project: Port of Anacortes (POA)
Matrix: Water 529009
Data Release Authorized: Date Sampled: NA
Reported: 12/07/04 Date Received: NA

Instrument/Analyst LCS: NT5/PKC Sample Amount LCS: 10.0 mL
LCSD: NT5/PKC LCSD: 10.0 mL
Date Analyzed LCS: 11/29/04 11:35 Purge Volume LCS: 10.0 mL
LCSD: 11/29/04 12:02 LCSD: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Vinyl Chloride	0.468	0.500	93.6%	0.453	0.500	90.6%	3.3%

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

SIM Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	96.2%	98.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Selected Ion Monitoring GC/MS **Sample ID: LCS-113004**
Page 1 of 1 **LCS/LCSD**

Lab Sample ID: LCS-113004
LIMS ID: 04-20657
Matrix: Water
Data Release Authorized:
Reported: 12/07/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT5/PKC
LCSD: NT5/PKC
Date Analyzed LCS: 11/30/04 13:17
LCSD: 11/30/04 13:44

Sample Amount LCS: 10.0 mL
LCSD: 10.0 mL
Purge Volume LCS: 10.0 mL
LCSD: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Vinyl Chloride	0.497	0.500	99.4%	0.468	0.500	93.6%	6.0%

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

SIM Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	103%	104%

ANALYTICAL RESOURCES INCORPORATED

SW8260-SIM SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

Client ID	DCA	TOT OUT
MB-112904	95.1%	0
LCS-112904	96.2%	0
LCSD-112904	98.2%	0
MW-111	95.4%	0
MW-111-MS	111%	0
MW-111-MSD	101%	0
MB-113004	101%	0
LCS-113004	103%	0
LCSD-113004	104%	0
MW-101	98.4%	0
MW-105	105%	0
MW-106	107%	0
MW-107	98.4%	0
MW-202	98.3%	0
MW-102	108%	0
MW-104	103%	0
MW-103	100%	0
MW-108	100%	0
MW-112	102%	0
MW-109	103%	0
MW-110	101%	0
Trip Blank	94.7%	0

	LCS/MB LIMITS	QC LIMITS
(DCA) = d4-1,2-Dichloroethane	(78-122)	(67-138)

Prep Method: SW5030
Log Number Range: 04-20656 to 04-20669

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-112604
METHOD BLANK

Lab Sample ID: MB-112604
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/06/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: NA
Date Received: NA

Date Extracted: 11/26/04
Date Analyzed: 12/01/04 18:14
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-112604
METHOD BLANK

Lab Sample ID: MB-112604
LIMS ID: 04-20656
Matrix: Water
Date Analyzed: 12/01/04 18:14

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-05-1	Guaiacol	1.0	< 1.0 U
2460-49-3	4,5-Dichloro-2-Methoxyphenol	1.0	< 1.0 U
2668-24-8	4,5,6-Trichloroguaiacol	1.0	< 1.0 U
57057-83-7	3,4,5-Trichloroguaiacol	1.0	< 1.0 U
2539-17-5	Tetrachloroguaiacol	2.0	< 2.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	77.2%	2-Fluorobiphenyl	76.8%
d14-p-Terphenyl	90.4%	d4-1,2-Dichlorobenzene	62.8%
d5-Phenol	73.3%	2-Fluorophenol	68.0%
2,4,6-Tribromophenol	70.9%	d4-2-Chlorophenol	73.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-111**
Page 1 of 2 **SAMPLE**

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/06/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA) 529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/26/04
Date Analyzed: 12/01/04 19:19
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-111**
 SAMPLE

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Date Analyzed: 12/01/04 19:19

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-05-1	Guaiacol	1.0	< 1.0 U
2460-49-3	4,5-Dichloro-2-Methoxyphenol	1.0	< 1.0 U
2668-24-8	4,5,6-Trichloroguaiacol	1.0	< 1.0 U
57057-83-7	3,4,5-Trichloroguaiacol	1.0	< 1.0 U
2539-17-5	Tetrachloroguaiacol	2.0	< 2.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	76.8%	2-Fluorobiphenyl	77.6%
d14-p-Terphenyl	88.4%	d4-1,2-Dichlorobenzene	58.8%
d5-Phenol	77.9%	2-Fluorophenol	69.1%
2,4,6-Tribromophenol	87.2%	d4-2-Chlorophenol	75.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MW-111
MATRIX SPIKE

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/06/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/26/04
Date Analyzed: 12/01/04 19:52
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	---
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	---
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	---
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	---
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	---
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	---
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	---
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	---
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	---
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MW-111
MATRIX SPIKE

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Date Analyzed: 12/01/04 19:52

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	---
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	---
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-05-1	Guaiacol	1.0	---
2460-49-3	4,5-Dichloro-2-Methoxyphenol	1.0	---
2668-24-8	4,5,6-Trichloroguaiacol	1.0	---
57057-83-7	3,4,5-Trichloroguaiacol	1.0	---
2539-17-5	Tetrachloroguaiacol	2.0	---

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	86.4%	2-Fluorobiphenyl	84.0%
d14-p-Terphenyl	91.6%	d4-1,2-Dichlorobenzene	69.2%
d5-Phenol	82.4%	2-Fluorophenol	78.9%
2,4,6-Tribromophenol	95.2%	d4-2-Chlorophenol	83.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-111**
Page 1 of 2 **MATRIX SPIKE DUP**

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/06/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/26/04
Date Analyzed: 12/01/04 20:24
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	---
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	---
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	---
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	---
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	---
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	---
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	---
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	---
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	---
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-111**
 MATRIX SPIKE DUP

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Date Analyzed: 12/01/04 20:24

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	---
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	---
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-05-1	Guaiacol	1.0	---
2460-49-3	4,5-Dichloro-2-Methoxyphenol	1.0	---
2668-24-8	4,5,6-Trichloroguaiacol	1.0	---
57057-83-7	3,4,5-Trichloroguaiacol	1.0	---
2539-17-5	Tetrachloroguaiacol	2.0	---

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	79.2%	2-Fluorobiphenyl	79.2%
d14-p-Terphenyl	90.8%	d4-1,2-Dichlorobenzene	62.4%
d5-Phenol	76.8%	2-Fluorophenol	72.0%
2,4,6-Tribromophenol	90.1%	d4-2-Chlorophenol	76.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-101**
Page 1 of 2 **SAMPLE**

Lab Sample ID: HJ95B
LIMS ID: 04-20657
Matrix: Water
Data Release Authorized:
Reported: 12/06/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA) 529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/26/04
Date Analyzed: 12/01/04 20:56
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MW-101
SAMPLE

Lab Sample ID: HJ95B
LIMS ID: 04-20657
Matrix: Water
Date Analyzed: 12/01/04 20:56

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**1.0**	**7.4**
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-05-1	Guaiacol	1.0	< 1.0 U
2460-49-3	4,5-Dichloro-2-Methoxyphenol	1.0	< 1.0 U
2668-24-8	4,5,6-Trichloroguaiacol	1.0	< 1.0 U
57057-83-7	3,4,5-Trichloroguaiacol	1.0	< 1.0 U
2539-17-5	Tetrachloroguaiacol	2.0	< 2.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	72.8%	2-Fluorobiphenyl	74.8%
d14-p-Terphenyl	70.8%	d4-1,2-Dichlorobenzene	56.8%
d5-Phenol	72.3%	2-Fluorophenol	64.8%
2,4,6-Tribromophenol	87.7%	d4-2-Chlorophenol	73.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-105**
 SAMPLE

Lab Sample ID: HJ95C
LIMS ID: 04-20658
Matrix: Water
Data Release Authorized:
Reported: 12/06/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/26/04
Date Analyzed: 12/01/04 21:29
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-105**
 SAMPLE

Lab Sample ID: HJ95C
LIMS ID: 04-20658
Matrix: Water
Date Analyzed: 12/01/04 21:29

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-05-1	Guaiacol	1.0	< 1.0 U
2460-49-3	4,5-Dichloro-2-Methoxyphenol	1.0	< 1.0 U
2668-24-8	4,5,6-Trichloroguaiacol	1.0	< 1.0 U
57057-83-7	3,4,5-Trichloroguaiacol	1.0	< 1.0 U
2539-17-5	Tetrachloroguaiacol	2.0	< 2.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	69.2%	2-Fluorobiphenyl	71.6%
d14-p-Terphenyl	89.2%	d4-1,2-Dichlorobenzene	60.0%
d5-Phenol	68.0%	2-Fluorophenol	63.2%
2,4,6-Tribromophenol	81.6%	d4-2-Chlorophenol	67.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-106**
 SAMPLE

Lab Sample ID: HJ95D
LIMS ID: 04-20659
Matrix: Water
Data Release Authorized:
Reported: 12/06/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/26/04
Date Analyzed: 12/01/04 22:01
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-106**
Page 2 of 2 **SAMPLE**

Lab Sample ID: HJ95D QC Report No: HJ95-Landau Associates
LIMS ID: 04-20659 Project: Port of Anacortes (POA)
Matrix: Water 529009
Date Analyzed: 12/01/04 22:01

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-05-1	Guaiacol	1.0	< 1.0 U
2460-49-3	4,5-Dichloro-2-Methoxyphenol	1.0	< 1.0 U
2668-24-8	4,5,6-Trichloroguaiacol	1.0	< 1.0 U
57057-83-7	3,4,5-Trichloroguaiacol	1.0	< 1.0 U
2539-17-5	Tetrachloroguaiacol	2.0	< 2.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	80.8%	2-Fluorobiphenyl	83.2%
d14-p-Terphenyl	88.4%	d4-1,2-Dichlorobenzene	72.0%
d5-Phenol	77.6%	2-Fluorophenol	73.1%
2,4,6-Tribromophenol	88.0%	d4-2-Chlorophenol	77.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-107**
Page 1 of 2 **SAMPLE**

Lab Sample ID: HJ95E
LIMS ID: 04-20660
Matrix: Water
Data Release Authorized:
Reported: 12/06/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/26/04
Date Analyzed: 12/01/04 22:34
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-107**
Page 2 of 2 **SAMPLE**

Lab Sample ID: HJ95E QC Report No: HJ95-Landau Associates
LIMS ID: 04-20660 Project: Port of Anacortes (POA)
Matrix: Water 529009
Date Analyzed: 12/01/04 22:34

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
117-81-7	bis(2-Ethylhexyl)phthalate	1.0	< 1.0 U
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-05-1	Guaiacol	1.0	< 1.0 U
2460-49-3	4,5-Dichloro-2-Methoxyphenol	1.0	< 1.0 U
2668-24-8	4,5,6-Trichloroguaiacol	1.0	< 1.0 U
57057-83-7	3,4,5-Trichloroguaiacol	1.0	< 1.0 U
2539-17-5	Tetrachloroguaiacol	2.0	< 2.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	70.8%	2-Fluorobiphenyl	75.6%
d14-p-Terphenyl	82.4%	d4-1,2-Dichlorobenzene	60.4%
d5-Phenol	70.1%	2-Fluorophenol	63.2%
2,4,6-Tribromophenol	86.9%	d4-2-Chlorophenol	69.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-202**
Page 1 of 2 **SAMPLE**

Lab Sample ID: HJ95F
LIMS ID: 04-20661
Matrix: Water
Data Release Authorized:
Reported: 12/06/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/26/04
Date Analyzed: 12/01/04 23:06
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-202**
Page 2 of 2 **SAMPLE**

Lab Sample ID: HJ95F QC Report No: HJ95-Landau Associates
LIMS ID: 04-20661 Project: Port of Anacortes (POA)
Matrix: Water 529009
Date Analyzed: 12/01/04 23:06

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**1.0**	**1.1**
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-05-1	Guaiacol	1.0	< 1.0 U
2460-49-3	4,5-Dichloro-2-Methoxyphenol	1.0	< 1.0 U
2668-24-8	4,5,6-Trichloroguaiacol	1.0	< 1.0 U
57057-83-7	3,4,5-Trichloroguaiacol	1.0	< 1.0 U
2539-17-5	Tetrachloroguaiacol	2.0	< 2.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	78.0%	2-Fluorobiphenyl	82.0%
d14-p-Terphenyl	88.4%	d4-1,2-Dichlorobenzene	66.4%
d5-Phenol	75.2%	2-Fluorophenol	68.8%
2,4,6-Tribromophenol	90.7%	d4-2-Chlorophenol	78.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-102**
 SAMPLE

Lab Sample ID: HJ95G
LIMS ID: 04-20662
Matrix: Water
Data Release Authorized:
Reported: 12/06/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/26/04
Date Analyzed: 12/01/04 23:38
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-102**
Page 2 of 2 **SAMPLE**

Lab Sample ID: HJ95G
LIMS ID: 04-20662
Matrix: Water
Date Analyzed: 12/01/04 23:38

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**1.0**	**1.1**
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-05-1	Guaiacol	1.0	< 1.0 U
2460-49-3	4,5-Dichloro-2-Methoxyphenol	1.0	< 1.0 U
2668-24-8	4,5,6-Trichloroguaiacol	1.0	< 1.0 U
57057-83-7	3,4,5-Trichloroguaiacol	1.0	< 1.0 U
2539-17-5	Tetrachloroguaiacol	2.0	< 2.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	74.4%	2-Fluorobiphenyl	78.4%
d14-p-Terphenyl	85.6%	d4-1,2-Dichlorobenzene	62.4%
d5-Phenol	74.9%	2-Fluorophenol	66.9%
2,4,6-Tribromophenol	89.1%	d4-2-Chlorophenol	74.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-104**
Page 1 of 2 **SAMPLE**

Lab Sample ID: HJ95H
LIMS ID: 04-20663
Matrix: Water
Data Release Authorized:
Reported: 12/06/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/26/04
Date Analyzed: 12/02/04 00:11
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-104**
Page 2 of 2 **SAMPLE**

Lab Sample ID: HJ95H QC Report No: HJ95-Landau Associates
LIMS ID: 04-20663 Project: Port of Anacortes (POA)
Matrix: Water 529009
Date Analyzed: 12/02/04 00:11

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**1.0**	**2.0**
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-05-1	Guaiacol	1.0	< 1.0 U
2460-49-3	4,5-Dichloro-2-Methoxyphenol	1.0	< 1.0 U
2668-24-8	4,5,6-Trichloroguaiacol	1.0	< 1.0 U
57057-83-7	3,4,5-Trichloroguaiacol	1.0	< 1.0 U
2539-17-5	Tetrachloroguaiacol	2.0	< 2.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	75.2%	2-Fluorobiphenyl	76.0%
d14-p-Terphenyl	82.8%	d4-1,2-Dichlorobenzene	59.6%
d5-Phenol	73.6%	2-Fluorophenol	68.3%
2,4,6-Tribromophenol	89.3%	d4-2-Chlorophenol	74.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-103**
 SAMPLE

Lab Sample ID: HJ95I
LIMS ID: 04-20664
Matrix: Water
Data Release Authorized:
Reported: 12/06/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/26/04
Date Analyzed: 12/02/04 00:43
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-103**
Page 2 of 2 **SAMPLE**

Lab Sample ID: HJ95I QC Report No: HJ95-Landau Associates
LIMS ID: 04-20664 Project: Port of Anacortes (POA)
Matrix: Water 529009
Date Analyzed: 12/02/04 00:43

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**1.0**	**1.3**
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-05-1	Guaiacol	1.0	< 1.0 U
2460-49-3	4,5-Dichloro-2-Methoxyphenol	1.0	< 1.0 U
2668-24-8	4,5,6-Trichloroguaiacol	1.0	< 1.0 U
57057-83-7	3,4,5-Trichloroguaiacol	1.0	< 1.0 U
2539-17-5	Tetrachloroguaiacol	2.0	< 2.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	80.8%	2-Fluorobiphenyl	80.4%
d14-p-Terphenyl	86.8%	d4-1,2-Dichlorobenzene	64.0%
d5-Phenol	78.7%	2-Fluorophenol	74.1%
2,4,6-Tribromophenol	90.9%	d4-2-Chlorophenol	81.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-108**
Page 1 of 2 **SAMPLE**

Lab Sample ID: HJ95J
LIMS ID: 04-20665
Matrix: Water
Data Release Authorized:
Reported: 12/06/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/26/04
Date Analyzed: 12/02/04 01:15
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-108**
Page 2 of 2 **SAMPLE**

Lab Sample ID: HJ95J QC Report No: HJ95-Landau Associates
LIMS ID: 04-20665 Project: Port of Anacortes (POA)
Matrix: Water 529009
Date Analyzed: 12/02/04 01:15

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**1.0**	**64**
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-05-1	Guaiacol	1.0	< 1.0 U
2460-49-3	4,5-Dichloro-2-Methoxyphenol	1.0	< 1.0 U
2668-24-8	4,5,6-Trichloroguaiacol	1.0	< 1.0 U
57057-83-7	3,4,5-Trichloroguaiacol	1.0	< 1.0 U
2539-17-5	Tetrachloroguaiacol	2.0	< 2.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	73.2%	2-Fluorobiphenyl	75.6%
d14-p-Terphenyl	72.8%	d4-1,2-Dichlorobenzene	62.4%
d5-Phenol	69.6%	2-Fluorophenol	65.1%
2,4,6-Tribromophenol	85.9%	d4-2-Chlorophenol	72.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-112**
Page 1 of 2 **SAMPLE**

Lab Sample ID: HJ95K
LIMS ID: 04-20666
Matrix: Water
Data Release Authorized:
Reported: 12/06/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/26/04
Date Analyzed: 12/02/04 01:48
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-112**
Page 2 of 2 **SAMPLE**

Lab Sample ID: HJ95K
LIMS ID: 04-20666
Matrix: Water
Date Analyzed: 12/02/04 01:48

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**1.0**	**2.4**
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-05-1	Guaiacol	1.0	< 1.0 U
2460-49-3	4,5-Dichloro-2-Methoxyphenol	1.0	< 1.0 U
2668-24-8	4,5,6-Trichloroguaiacol	1.0	< 1.0 U
57057-83-7	3,4,5-Trichloroguaiacol	1.0	< 1.0 U
2539-17-5	Tetrachloroguaiacol	2.0	< 2.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	80.8%	2-Fluorobiphenyl	80.4%
d14-p-Terphenyl	83.2%	d4-1,2-Dichlorobenzene	65.6%
d5-Phenol	72.3%	2-Fluorophenol	72.8%
2,4,6-Tribromophenol	90.9%	d4-2-Chlorophenol	80.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-109**
Page 1 of 2 **SAMPLE**

Lab Sample ID: HJ95L
LIMS ID: 04-20667
Matrix: Water
Data Release Authorized:
Reported: 12/06/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/26/04
Date Analyzed: 12/02/04 02:20
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	4-Methylphenol	1.0	< 1.0 U
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-109**
Page 2 of 2 **SAMPLE**

Lab Sample ID: HJ95L QC Report No: HJ95-Landau Associates
LIMS ID: 04-20667 Project: Port of Anacortes (POA)
Matrix: Water 529009
Date Analyzed: 12/02/04 02:20

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**1.0**	**2.2**
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-05-1	Guaiacol	1.0	< 1.0 U
2460-49-3	4,5-Dichloro-2-Methoxyphenol	1.0	< 1.0 U
2668-24-8	4,5,6-Trichloroguaiacol	1.0	< 1.0 U
57057-83-7	3,4,5-Trichloroguaiacol	1.0	< 1.0 U
2539-17-5	Tetrachloroguaiacol	2.0	< 2.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	76.4%	2-Fluorobiphenyl	77.2%
d14-p-Terphenyl	79.2%	d4-1,2-Dichlorobenzene	62.4%
d5-Phenol	71.7%	2-Fluorophenol	67.2%
2,4,6-Tribromophenol	90.1%	d4-2-Chlorophenol	75.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-110**
Page 1 of 2 **SAMPLE**

Lab Sample ID: HJ95M
LIMS ID: 04-20668
Matrix: Water
Data Release Authorized:
Reported: 12/06/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/26/04
Date Analyzed: 12/02/04 02:52
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
108-95-2	Phenol	1.0	< 1.0 U
111-44-4	Bis-(2-Chloroethyl) Ether	1.0	< 1.0 U
95-57-8	2-Chlorophenol	1.0	< 1.0 U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0 U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0 U
100-51-6	Benzyl Alcohol	5.0	< 5.0 U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0 U
95-48-7	2-Methylphenol	1.0	< 1.0 U
108-60-1	2,2'-Oxybis(1-Chloropropane)	1.0	< 1.0 U
106-44-5	**4-Methylphenol**	**1.0**	**7.5**
621-64-7	N-Nitroso-Di-N-Propylamine	5.0	< 5.0 U
67-72-1	Hexachloroethane	1.0	< 1.0 U
98-95-3	Nitrobenzene	1.0	< 1.0 U
78-59-1	Isophorone	1.0	< 1.0 U
88-75-5	2-Nitrophenol	5.0	< 5.0 U
105-67-9	2,4-Dimethylphenol	1.0	< 1.0 U
65-85-0	Benzoic Acid	10	< 10 U
111-91-1	bis(2-Chloroethoxy) Methane	1.0	< 1.0 U
120-83-2	2,4-Dichlorophenol	5.0	< 5.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0 U
91-20-3	Naphthalene	1.0	< 1.0 U
106-47-8	4-Chloroaniline	5.0	< 5.0 U
87-68-3	Hexachlorobutadiene	1.0	< 1.0 U
59-50-7	4-Chloro-3-methylphenol	5.0	< 5.0 U
91-57-6	2-Methylnaphthalene	1.0	< 1.0 U
77-47-4	Hexachlorocyclopentadiene	5.0	< 5.0 U
88-06-2	2,4,6-Trichlorophenol	5.0	< 5.0 U
95-95-4	2,4,5-Trichlorophenol	5.0	< 5.0 U
91-58-7	2-Chloronaphthalene	1.0	< 1.0 U
88-74-4	2-Nitroaniline	5.0	< 5.0 U
131-11-3	Dimethylphthalate	1.0	< 1.0 U
208-96-8	Acenaphthylene	1.0	< 1.0 U
99-09-2	3-Nitroaniline	5.0	< 5.0 U
83-32-9	Acenaphthene	1.0	< 1.0 U
51-28-5	2,4-Dinitrophenol	10	< 10 U
100-02-7	4-Nitrophenol	5.0	< 5.0 U
132-64-9	Dibenzofuran	1.0	< 1.0 U
606-20-2	2,6-Dinitrotoluene	5.0	< 5.0 U
121-14-2	2,4-Dinitrotoluene	5.0	< 5.0 U
84-66-2	Diethylphthalate	1.0	< 1.0 U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-110**
Page 2 of 2 **SAMPLE**

Lab Sample ID: HJ95M QC Report No: HJ95-Landau Associates
LIMS ID: 04-20668 Project: Port of Anacortes (POA)
Matrix: Water 529009
Date Analyzed: 12/02/04 02:52

CAS Number	Analyte	RL	Result
7005-72-3	4-Chlorophenyl-phenylether	1.0	< 1.0 U
86-73-7	Fluorene	1.0	< 1.0 U
100-01-6	4-Nitroaniline	5.0	< 5.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	10	< 10 U
86-30-6	N-Nitrosodiphenylamine	1.0	< 1.0 U
101-55-3	4-Bromophenyl-phenylether	1.0	< 1.0 U
118-74-1	Hexachlorobenzene	1.0	< 1.0 U
87-86-5	Pentachlorophenol	5.0	< 5.0 U
85-01-8	Phenanthrene	1.0	< 1.0 U
86-74-8	Carbazole	1.0	< 1.0 U
120-12-7	Anthracene	1.0	< 1.0 U
84-74-2	Di-n-Butylphthalate	1.0	< 1.0 U
206-44-0	Fluoranthene	1.0	< 1.0 U
129-00-0	Pyrene	1.0	< 1.0 U
85-68-7	Butylbenzylphthalate	1.0	< 1.0 U
91-94-1	3,3'-Dichlorobenzidine	5.0	< 5.0 U
117-81-7	**bis(2-Ethylhexyl)phthalate**	**1.0**	**3.9**
117-84-0	Di-n-Octyl phthalate	1.0	< 1.0 U
191-24-2	Benzo(g,h,i)perylene	1.0	< 1.0 U
90-05-1	Guaiacol	1.0	< 1.0 U
2460-49-3	4,5-Dichloro-2-Methoxyphenol	1.0	< 1.0 U
2668-24-8	4,5,6-Trichloroguaiacol	1.0	< 1.0 U
57057-83-7	3,4,5-Trichloroguaiacol	1.0	< 1.0 U
2539-17-5	Tetrachloroguaiacol	2.0	< 2.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	76.8%	2-Fluorobiphenyl	80.0%
d14-p-Terphenyl	62.4%	d4-1,2-Dichlorobenzene	69.2%
d5-Phenol	77.6%	2-Fluorophenol	69.1%
2,4,6-Tribromophenol	92.3%	d4-2-Chlorophenol	77.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: MW-111**
Page 1 of 1 **MS/MSD**

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/06/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted MS/MSD: 11/26/04

Date Analyzed MS: 12/01/04 19:52
MSD: 12/01/04 20:24
Instrument/Analyst MS: NT6/LJR
MSD: NT6/LJR
GPC Cleanup: NO

Sample Amount MS: 500 mL
MSD: 500 mL
Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL
Dilution Factor MS: 1.00
MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Phenol	< 1.0	30.9	37.5	82.4%	30.4	37.5	81.1%	1.6%
2-Chlorophenol	< 1.0	30.4	37.5	81.1%	29.2	37.5	77.9%	4.0%
1,4-Dichlorobenzene	< 1.0	17.3	25.0	69.2%	17.4	25.0	69.6%	0.6%
N-Nitroso-Di-N-Propylamine	< 5.0	22.6	25.0	90.4%	21.9	25.0	87.6%	3.1%
1,2,4-Trichlorobenzene	< 1.0	19.4	25.0	77.6%	19.5	25.0	78.0%	0.5%
4-Chloro-3-methylphenol	< 5.0	33.9	37.5	90.4%	33.4	37.5	89.1%	1.5%
Acenaphthene	< 1.0	23.4	25.0	93.6%	23.1	25.0	92.4%	1.3%
4-Nitrophenol	< 5.0	41.4	37.5	110%	39.8	37.5	106%	3.9%
2,4-Dinitrotoluene	< 5.0	25.1	25.0	100%	24.8	25.0	99.2%	1.2%
Pentachlorophenol	< 5.0	46.1	37.5	123%	46.2	37.5	123%	0.2%
Pyrene	< 1.0	25.4	25.0	102%	25.3	25.0	101%	0.4%
Guaiacol	< 1.0	37.1	37.5	98.9%	36.6	37.5	97.6%	1.4%
4,5-Dichloro-2-Methoxyphenol	< 1.0	33.9	37.5	90.4%	33.8	37.5	90.1%	0.3%
4,5,6-Trichloroguaiacol	< 1.0	35.4	37.5	94.4%	36.7	37.5	97.9%	3.6%
3,4,5-Trichloroguaiacol	< 1.0	37.0	37.5	98.7%	37.4	37.5	99.7%	1.1%
Tetrachloroguaiacol	< 2.0	74.3	75.0	99.1%	74.6	75.0	99.5%	0.4%

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

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: LCS-112604
LAB CONTROL

Lab Sample ID: LCS-112604
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/06/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/26/04
Date Analyzed: 12/01/04 18:47
Instrument/Analyst: NT6/LJR
GPC Cleanup: NO

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

Analyte	Lab Control	Spike Added	Recovery
Phenol	31.3	37.5	83.5%
2-Chlorophenol	29.9	37.5	79.7%
1,4-Dichlorobenzene	18.5	25.0	74.0%
N-Nitroso-Di-N-Propylamine	22.6	25.0	90.4%
1,2,4-Trichlorobenzene	20.0	25.0	80.0%
4-Chloro-3-methylphenol	31.7	37.5	84.5%
Acenaphthene	22.9	25.0	91.6%
4-Nitrophenol	34.3	37.5	91.5%
2,4-Dinitrotoluene	24.0	25.0	96.0%
Pentachlorophenol	36.2	37.5	96.5%
Pyrene	25.7	25.0	103%
Guaiacol	35.9	37.5	95.7%
4,5-Dichloro-2-Methoxyphenol	31.7	37.5	84.5%
4,5,6-Trichloroguaiacol	33.2	37.5	88.5%
3,4,5-Trichloroguaiacol	33.2	37.5	88.5%
Tetrachloroguaiacol	67.1	75.0	89.5%

Semivolatile Surrogate Recovery	
d5-Nitrobenzene	84.8%
2-Fluorobiphenyl	82.8%
d14-p-Terphenyl	94.4%
d4-1,2-Dichlorobenzene	70.4%
d5-Phenol	82.9%
2-Fluorophenol	78.1%
2,4,6-Tribromophenol	85.6%
d4-2-Chlorophenol	82.4%

Results reported in µg/L

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
MB-112604	77.2%	76.8%	90.4%	62.8%	73.3%	68.0%	70.9%	73.6%	0
LCS-112604	84.8%	82.8%	94.4%	70.4%	82.9%	78.1%	85.6%	82.4%	0
MW-111	76.8%	77.6%	88.4%	58.8%	77.9%	69.1%	87.2%	75.2%	0
MW-111 MS	86.4%	84.0%	91.6%	69.2%	82.4%	78.9%	95.2%	83.5%	0
MW-111 MSD	79.2%	79.2%	90.8%	62.4%	76.8%	72.0%	90.1%	76.8%	0
MW-101	72.8%	74.8%	70.8%	56.8%	72.3%	64.8%	87.7%	73.6%	0
MW-105	69.2%	71.6%	89.2%	60.0%	68.0%	63.2%	81.6%	67.5%	0
MW-106	80.8%	83.2%	88.4%	72.0%	77.6%	73.1%	88.0%	77.9%	0
MW-107	70.8%	75.6%	82.4%	60.4%	70.1%	63.2%	86.9%	69.3%	0
MW-202	78.0%	82.0%	88.4%	66.4%	75.2%	68.8%	90.7%	78.7%	0
MW-102	74.4%	78.4%	85.6%	62.4%	74.9%	66.9%	89.1%	74.9%	0
MW-104	75.2%	76.0%	82.8%	59.6%	73.6%	68.3%	89.3%	74.9%	0
MW-103	80.8%	80.4%	86.8%	64.0%	78.7%	74.1%	90.9%	81.3%	0
MW-108	73.2%	75.6%	72.8%	62.4%	69.6%	65.1%	85.9%	72.3%	0
MW-112	80.8%	80.4%	83.2%	65.6%	72.3%	72.8%	90.9%	80.3%	0
MW-109	76.4%	77.2%	79.2%	62.4%	71.7%	67.2%	90.1%	75.2%	0
MW-110	76.8%	80.0%	62.4%	69.2%	77.6%	69.1%	92.3%	77.1%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(44-107)	(38-111)
(FBP) = 2-Fluorobiphenyl	(43-99)	(30-109)
(TPH) = d14-p-Terphenyl	(44-123)	(37-113)
(DCB) = d4-1,2-Dichlorobenzene	(36-88)	(35-88)
(PHL) = d5-Phenol	(47-101)	(42-98)
(2FP) = 2-Fluorophenol	(44-102)	(40-99)
(TBP) = 2,4,6-Tribromophenol	(38-116)	(27-136)
(2CP) = d4-2-Chlorophenol	(50-102)	(47-101)

Prep Method: SW3520C
Log Number Range: 04-20656 to 04-20668

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS
Page 1 of 1

Sample ID: MB-112904
METHOD BLANK

Lab Sample ID: MB-112904
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: NA
Date Received: NA

Date Extracted: 11/29/04
Date Analyzed: 12/07/04 15:32
Instrument/Analyst: NT2/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
205-99-2	Benzo(b)fluoranthene	0.010	< 0.010 U
207-08-9	Benzo(k)fluoranthene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	60.0%
d14-Dibenzo(a,h)anthracene	83.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS **Sample ID: MW-111**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/07/04 16:28
Instrument/Analyst: NT2/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
205-99-2	Benzo(b)fluoranthene	0.010	< 0.010 U
207-08-9	Benzo(k)fluoranthene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	81.7%
d14-Dibenzo(a,h)anthracene	78.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS
Page 1 of 1

Sample ID: MW-111
MATRIX SPIKE

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/07/04 16:49
Instrument/Analyst: NT2/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	---
205-99-2	Benzo(b)fluoranthene	0.010	< 0.010 U
207-08-9	Benzo(k)fluoranthene	0.010	---
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	76.0%
d14-Dibenzo(a,h)anthracene	80.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS
Page 1 of 1

Sample ID: MW-111
MATRIX SPIKE DUP

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/07/04 17:10
Instrument/Analyst: NT2/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	---
205-99-2	Benzo(b)fluoranthene	0.010	< 0.010 U
207-08-9	Benzo(k)fluoranthene	0.010	---
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	66.0%
d14-Dibenzo(a,h)anthracene	87.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS **Sample ID: MW-101**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95B
LIMS ID: 04-20657
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/08/04 10:05
Instrument/Analyst: NT2/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 2.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.020	< 0.020 U
218-01-9	Chrysene	0.020	< 0.020 U
205-99-2	Benzo(b)fluoranthene	0.020	< 0.020 U
207-08-9	Benzo(k)fluoranthene	0.020	< 0.020 U
50-32-8	Benzo(a)pyrene	0.020	< 0.020 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.020	< 0.020 U
53-70-3	Dibenz(a,h)anthracene	0.020	< 0.020 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	130%
d14-Dibenzo(a,h)anthracene	85.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS **Sample ID: MW-105**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95C
LIMS ID: 04-20658
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/07/04 17:53
Instrument/Analyst: NT2/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
205-99-2	Benzo(b)fluoranthene	0.010	< 0.010 U
207-08-9	Benzo(k)fluoranthene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	78.3%
d14-Dibenzo(a,h)anthracene	88.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS **Sample ID: MW-106**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95D
LIMS ID: 04-20659
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/07/04 18:14
Instrument/Analyst: NT2/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
205-99-2	Benzo(b)fluoranthene	0.010	< 0.010 U
207-08-9	Benzo(k)fluoranthene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	71.0%
d14-Dibenzo(a,h)anthracene	82.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS **Sample ID: MW-107**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95E
LIMS ID: 04-20660
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/07/04 18:35
Instrument/Analyst: NT2/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
205-99-2	Benzo(b)fluoranthene	0.010	< 0.010 U
207-08-9	Benzo(k)fluoranthene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	76.0%
d14-Dibenzo(a,h)anthracene	96.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS **Sample ID: MW-202**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95F
LIMS ID: 04-20661
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/07/04 18:56
Instrument/Analyst: NT2/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
205-99-2	Benzo(b)fluoranthene	0.010	< 0.010 U
207-08-9	Benzo(k)fluoranthene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	84.0%
d14-Dibenzo(a,h)anthracene	87.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS **Sample ID: MW-102**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95G
LIMS ID: 04-20662
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/07/04 19:17
Instrument/Analyst: NT2/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
205-99-2	Benzo(b)fluoranthene	0.010	< 0.010 U
207-08-9	Benzo(k)fluoranthene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	80.0%
d14-Dibenzo(a,h)anthracene	87.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS **Sample ID: MW-104**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95H
LIMS ID: 04-20663
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/07/04 19:38
Instrument/Analyst: NT2/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
205-99-2	Benzo(b)fluoranthene	0.010	< 0.010 U
207-08-9	Benzo(k)fluoranthene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	65.7%
d14-Dibenzo(a,h)anthracene	58.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS
Page 1 of 1

Sample ID: MW-103
SAMPLE

Lab Sample ID: HJ95I
LIMS ID: 04-20664
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/07/04 20:00
Instrument/Analyst: NT2/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
205-99-2	Benzo(b)fluoranthene	0.010	< 0.010 U
207-08-9	Benzo(k)fluoranthene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	65.7%
d14-Dibenzo(a,h)anthracene	80.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS **Sample ID: MW-108**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95J
LIMS ID: 04-20665
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/07/04 20:21
Instrument/Analyst: NT2/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
205-99-2	Benzo(b)fluoranthene	0.010	< 0.010 U
207-08-9	Benzo(k)fluoranthene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	75.3%
d14-Dibenzo(a,h)anthracene	48.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS **Sample ID: MW-112**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95K
LIMS ID: 04-20666
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/07/04 20:42
Instrument/Analyst: NT2/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
205-99-2	Benzo(b)fluoranthene	0.010	< 0.010 U
207-08-9	Benzo(k)fluoranthene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	81.0%
d14-Dibenzo(a,h)anthracene	93.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS **Sample ID: MW-109**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95L
LIMS ID: 04-20667
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/07/04 21:03
Instrument/Analyst: NT2/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
205-99-2	Benzo(b)fluoranthene	0.010	< 0.010 U
207-08-9	Benzo(k)fluoranthene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	81.7%
d14-Dibenzo(a,h)anthracene	94.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
SW8270C SIM GC/MS **Sample ID: MW-110**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95M
LIMS ID: 04-20668
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/07/04 21:24
Instrument/Analyst: NT2/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	**Chrysene**	**0.010**	**0.028**
205-99-2	Benzo(b)fluoranthene	0.010	< 0.010 U
207-08-9	Benzo(k)fluoranthene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	84.7%
d14-Dibenzo(a,h)anthracene	47.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS **Sample ID: MW-111**
Page 1 of 1 **MS/MSD**

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted MS/MSD: 11/29/04

Date Analyzed MS: 12/07/04 16:49
MSD: 12/07/04 17:10
Instrument/Analyst MS: NT2/Van
MSD: NT2/Van

Sample Amount MS: 500 mL
MSD: 500 mL
Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL
Dilution Factor MS: 1.00
MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Chrysene	< 0.010	0.292	0.300	97.3%	0.278	0.300	92.7%	4.9%
Benzo(k)fluoranthene	< 0.010	0.241	0.300	80.3%	0.228	0.300	76.0%	5.5%

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

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C SIM GC/MS

Sample ID: LCS-112904
LAB CONTROL

Lab Sample ID: LCS-112904
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/07/04 16:07
Instrument/Analyst: NT2/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

Analyte	Lab Control	Spike Added	Recovery
Chrysene	0.314	0.300	105%
Benzo(k)fluoranthene	0.272	0.300	90.7%

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	76.7%
d14-Dibenzo(a,h)anthracen	97.3%

Results reported in µg/L

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

Client ID	MNP	DBA	TOT OUT
MB-112904	60.0%	83.3%	0
LCS-112904	76.7%	97.3%	0
MW-111	81.7%	78.7%	0
MW-111 MS	76.0%	80.0%	0
MW-111 MSD	66.0%	87.3%	0
MW-101	130%*	85.3%	1
MW-105	78.3%	88.7%	0
MW-106	71.0%	82.7%	0
MW-107	76.0%	96.7%	0
MW-202	84.0%	87.0%	0
MW-102	80.0%	87.0%	0
MW-104	65.7%	58.7%	0
MW-103	65.7%	80.7%	0
MW-108	75.3%	48.0%	0
MW-112	81.0%	93.0%	0
MW-109	81.7%	94.3%	0
MW-110	84.7%	47.3%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(45-105)	(38-107)
(DBA) = d14-Dibenzo(a,h)anthracene	(24-130)	(10-123)

Prep Method: SW3520C
Log Number Range: 04-20656 to 04-20668

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Resin Acids by GC/MS
Page 1 of 1

Sample No: Method Blank

Lab Sample ID: HJ95MB
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/02/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: NA
Date Received: NA

Date extracted: 11/26/04
Date analyzed: 11/30/04
Instrument: NT1

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1:1

CAS Number	Analyte	ug/L
127-27-5	Pimaric Acid	2.0 U
471-74-9	Sandaracopimaric Acid	2.0 U
5835-26-7	Isopimaric Acid	2.0 U
1945-53-5	Palustric Acid	2.0 U
1740-19-8	Dehydroabietic Acid	2.0 U
514-10-3	Abietic Acid	2.0 U
471-77-2	Neoabietic Acid	2.0 U
	14-Chlorodehydroabietic Acid	2.0 U
	12-Chlorodehydroabietic Acid	2.0 U
57055-39-7	Dichlorodehydroabietic Acid	2.0 U

Resin Acids Surrogate Recovery

O-Methyl Podocarpic Acid 78.6%

ANALYTICAL RESOURCES INCORPORATED

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Sample No: Method Blank

Lab Sample ID: HJ95MB
LIMS ID: 04-20664
Matrix: Water
Data Release Authorized:
Reported: 12/02/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA) 529009
Date Sampled: NA
Date Received: NA

Date extracted: 11/29/04
Date analyzed: 11/30/04
Instrument: NT1

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1:1

CAS Number	Analyte	ug/L
127-27-5	Pimaric Acid	2.0 U
471-74-9	Sandaracopimaric Acid	2.0 U
5835-26-7	Isopimaric Acid	2.0 U
1945-53-5	Palustric Acid	2.0 U
1740-19-8	Dehydroabietic Acid	2.0 U
514-10-3	Abietic Acid	2.0 U
471-77-2	Neoabietic Acid	2.0 U
	14-Chlorodehydroabietic Acid	2.0 U
	12-Chlorodehydroabietic Acid	2.0 U
57055-39-7	Dichlorodehydroabietic Acid	2.0 U

Resin Acids Surrogate Recovery

O-Methyl Podocarpic Acid 78.0%

ORGANICS ANALYSIS DATA SHEET
Resin Acids by GC/MS

ANALYTICAL RESOURCES INCORPORATED

Sample No: MW-111

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/02/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA) 529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date extracted: 11/26/04
Date analyzed: 11/30/04
Instrument: NT1

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1:1

CAS Number	Analyte	ug/L
127-27-5	Pimaric Acid	2.0 U
471-74-9	Sandaracopimaric Acid	2.0 U
5835-26-7	Isopimaric Acid	2.0 U
1945-53-5	Palustric Acid	2.0 U
1740-19-8	Dehydroabietic Acid	2.0 U
514-10-3	Abietic Acid	2.0 U
471-77-2	Neoabietic Acid	2.0 U
	14-Chlorodehydroabietic Acid	2.0 U
	12-Chlorodehydroabietic Acid	2.0 U
57055-39-7	Dichlorodehydroabietic Acid	2.0 U

Resin Acids Surrogate Recovery

O-Methyl Podocarpic Acid 77.0%

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Resin Acids by GC/MS
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Sample No: MW-111
MATRIX SPIKE

Lab Sample ID: HJ95A-MS
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/02/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date extracted: 11/26/04
Date analyzed: 11/30/04
Instrument: NT1

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1:1

CAS Number	Analyte	ug/L
127-27-5	Pimaric Acid	---
471-74-9	**Sandaracopimaric Acid**	**5.2**
5835-26-7	Isopimaric Acid	---
1945-53-5	Palustric Acid	2.0 U
1740-19-8	Dehydroabietic Acid	---
514-10-3	Abietic Acid	---
471-77-2	Neoabietic Acid	2.0 U
	14-Chlorodehydroabietic Acid	2.0 U
	12-Chlorodehydroabietic Acid	2.0 U
57055-39-7	Dichlorodehydroabietic Acid	2.0 U

Resin Acids Surrogate Recovery

O-Methyl Podocarpic Acid 83.2%

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Sample No: **MW-111**
MS DUPLICATE

Lab Sample ID: HJ95A-MSD
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/02/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date extracted: 11/26/04
Date analyzed: 11/30/04
Instrument: NT1

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1:1

CAS Number	Analyte	ug/L
127-27-5	Pimaric Acid	---
471-74-9	**Sandaracopimaric Acid**	**5.3**
5835-26-7	Isopimaric Acid	---
1945-53-5	Palustric Acid	2.0 U
1740-19-8	Dehydroabietic Acid	---
514-10-3	Abietic Acid	---
471-77-2	Neoabietic Acid	2.0 U
	14-Chlorodehydroabietic Acid	2.0 U
	12-Chlorodehydroabietic Acid	2.0 U
57055-39-7	Dichlorodehydroabietic Acid	2.0 U

Resin Acids Surrogate Recovery

O-Methyl Podocarpic Acid 79.6%

ORGANICS ANALYSIS DATA SHEET
Resin Acids by GC/MS

ANALYTICAL RESOURCES INCORPORATED

Sample No: MW-101

Lab Sample ID: HJ95B
LIMS ID: 04-20657
Matrix: Water
Data Release Authorized:
Reported: 12/02/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA) 529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date extracted: 11/26/04
Date analyzed: 11/30/04
Instrument: NT1

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1:1

CAS Number	Analyte	ug/L
127-27-5	Pimaric Acid	2.0 U
471-74-9	Sandaracopimaric Acid	2.0 U
5835-26-7	Isopimaric Acid	2.0 U
1945-53-5	Palustric Acid	2.0 U
1740-19-8	Dehydroabietic Acid	2.0 U
514-10-3	Abietic Acid	2.0 U
471-77-2	Neoabietic Acid	2.0 U
	14-Chlorodehydroabietic Acid	2.0 U
	12-Chlorodehydroabietic Acid	2.0 U
57055-39-7	Dichlorodehydroabietic Acid	2.0 U

Resin Acids Surrogate Recovery

O-Methyl Podocarpic Acid 73.2%

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Sample No: MW-105

Lab Sample ID: HJ95C
LIMS ID: 04-20658
Matrix: Water
Data Release Authorized:
Reported: 12/02/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date extracted: 11/26/04
Date analyzed: 11/30/04
Instrument: NT1

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1:1

CAS Number	Analyte	ug/L
127-27-5	Pimaric Acid	2.0 U
471-74-9	Sandaracopimaric Acid	2.0 U
5835-26-7	Isopimaric Acid	2.0 U
1945-53-5	Palustric Acid	2.0 U
1740-19-8	Dehydroabietic Acid	2.0 U
514-10-3	Abietic Acid	2.0 U
471-77-2	Neoabietic Acid	2.0 U
	14-Chlorodehydroabietic Acid	2.0 U
	12-Chlorodehydroabietic Acid	2.0 U
57055-39-7	Dichlorodehydroabietic Acid	2.0 U

Resin Acids Surrogate Recovery

O-Methyl Podocarpic Acid 65.8%

ANALYTICAL RESOURCES INCORPORATED

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Sample No: MW-106

Lab Sample ID: HJ95D
LIMS ID: 04-20659
Matrix: Water
Data Release Authorized:
Reported: 12/02/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date extracted: 11/29/04
Date analyzed: 11/30/04
Instrument: NT1

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1:1

CAS Number	Analyte	ug/L
127-27-5	Pimaric Acid	2.0 U
471-74-9	Sandaracopimaric Acid	2.0 U
5835-26-7	Isopimaric Acid	2.0 U
1945-53-5	Palustric Acid	2.0 U
1740-19-8	Dehydroabietic Acid	2.0 U
514-10-3	Abietic Acid	2.0 U
471-77-2	Neoabietic Acid	2.0 U
	14-Chlorodehydroabietic Acid	2.0 U
	12-Chlorodehydroabietic Acid	2.0 U
57055-39-7	Dichlorodehydroabietic Acid	2.0 U

Resin Acids Surrogate Recovery

O-Methyl Podocarpic Acid 68.6%

ORGANICS ANALYSIS DATA SHEET
Resin Acids by GC/MS
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ANALYTICAL RESOURCES INCORPORATED

Sample No: MW-107

Lab Sample ID: HJ95E
LIMS ID: 04-20660
Matrix: Water
Data Release Authorized:
Reported: 12/02/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA) 529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date extracted: 11/26/04
Date analyzed: 11/30/04
Instrument: NT1

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1:1

CAS Number	Analyte	ug/L
127-27-5	Pimaric Acid	2.0 U
471-74-9	Sandaracopimaric Acid	2.0 U
5835-26-7	Isopimaric Acid	2.0 U
1945-53-5	Palustric Acid	2.0 U
1740-19-8	Dehydroabietic Acid	2.0 U
514-10-3	Abietic Acid	2.0 U
471-77-2	Neoabietic Acid	2.0 U
	14-Chlorodehydroabietic Acid	2.0 U
	12-Chlorodehydroabietic Acid	2.0 U
57055-39-7	Dichlorodehydroabietic Acid	2.0 U

Resin Acids Surrogate Recovery

O-Methyl Podocarpic Acid 70.8%

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ANALYTICAL RESOURCES INCORPORATED

Sample No: MW-202

Lab Sample ID: HJ95F
LIMS ID: 04-20661
Matrix: Water
Data Release Authorized:
Reported: 12/02/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA) 529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date extracted: 11/26/04
Date analyzed: 11/30/04
Instrument: NT1

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1:1

CAS Number	Analyte	ug/L
127-27-5	Pimaric Acid	2.0 U
471-74-9	Sandaracopimaric Acid	2.0 U
5835-26-7	Isopimaric Acid	2.0 U
1945-53-5	Palustric Acid	2.0 U
1740-19-8	Dehydroabietic Acid	2.0 U
514-10-3	Abietic Acid	2.0 U
471-77-2	Neoabietic Acid	2.0 U
	14-Chlorodehydroabietic Acid	2.0 U
	12-Chlorodehydroabietic Acid	2.0 U
57055-39-7	Dichlorodehydroabietic Acid	2.0 U

Resin Acids Surrogate Recovery

O-Methyl Podocarpic Acid 74.2%

ANALYTICAL RESOURCES INCORPORATED

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Sample No: MW-102

Lab Sample ID: HJ95G
LIMS ID: 04-20662
Matrix: Water
Data Release Authorized:
Reported: 12/02/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA) 529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date extracted: 11/26/04
Date analyzed: 11/30/04
Instrument: NT1

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1:1

CAS Number	Analyte	ug/L
127-27-5	Pimaric Acid	2.0 U
471-74-9	Sandaracopimaric Acid	2.0 U
5835-26-7	Isopimaric Acid	2.0 U
1945-53-5	Palustric Acid	2.0 U
1740-19-8	Dehydroabietic Acid	2.0 U
514-10-3	Abietic Acid	2.0 U
471-77-2	Neoabietic Acid	2.0 U
	14-Chlorodehydroabietic Acid	2.0 U
	12-Chlorodehydroabietic Acid	2.0 U
57055-39-7	Dichlorodehydroabietic Acid	2.0 U

Resin Acids Surrogate Recovery

O-Methyl Podocarpic Acid 65.4%

ANALYTICAL RESOURCES INCORPORATED

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Sample No: MW-104

Lab Sample ID: HJ95H
LIMS ID: 04-20663
Matrix: Water
Data Release Authorized:
Reported: 12/02/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date extracted: 11/26/04
Date analyzed: 11/30/04
Instrument: NT1

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1:1

CAS Number	Analyte	ug/L
127-27-5	Pimaric Acid	2.0 U
471-74-9	Sandaracopimaric Acid	2.0 U
5835-26-7	Isopimaric Acid	2.0 U
1945-53-5	Palustric Acid	2.0 U
1740-19-8	Dehydroabietic Acid	2.0 U
514-10-3	Abietic Acid	2.0 U
471-77-2	Neoabietic Acid	2.0 U
	14-Chlorodehydroabietic Acid	2.0 U
	12-Chlorodehydroabietic Acid	2.0 U
57055-39-7	Dichlorodehydroabietic Acid	2.0 U

Resin Acids Surrogate Recovery

O-Methyl Podocarpic Acid 65.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Resin Acids by GC/MS
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Sample No: MW-103

Lab Sample ID: HJ95I
LIMS ID: 04-20664
Matrix: Water
Data Release Authorized:
Reported: 12/02/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA) 529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date extracted: 11/29/04
Date analyzed: 11/30/04
Instrument: NT1

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1:1

CAS Number	Analyte	ug/L
127-27-5	Pimaric Acid	2.0 U
471-74-9	Sandaracopimaric Acid	2.0 U
5835-26-7	Isopimaric Acid	2.0 U
1945-53-5	Palustric Acid	2.0 U
1740-19-8	Dehydroabietic Acid	2.0 U
514-10-3	Abietic Acid	2.0 U
471-77-2	Neoabietic Acid	2.0 U
	14-Chlorodehydroabietic Acid	2.0 U
	12-Chlorodehydroabietic Acid	2.0 U
57055-39-7	Dichlorodehydroabietic Acid	2.0 U

Resin Acids Surrogate Recovery

O-Methyl Podocarpic Acid 85.4%

ANALYTICAL RESOURCES INCORPORATED

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Resin Acids by GC/MS
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Sample No: MW-108

Lab Sample ID: HJ95J
LIMS ID: 04-20665
Matrix: Water
Data Release Authorized:
Reported: 12/02/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date extracted: 11/29/04
Date analyzed: 11/30/04
Instrument: NT1

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1:1

CAS Number	Analyte	ug/L
127-27-5	Pimaric Acid	2.0 U
471-74-9	Sandaracopimaric Acid	2.0 U
5835-26-7	Isopimaric Acid	2.0 U
1945-53-5	Palustric Acid	2.0 U
1740-19-8	Dehydroabietic Acid	2.0 U
514-10-3	Abietic Acid	2.0 U
471-77-2	Neoabietic Acid	2.0 U
	14-Chlorodehydroabietic Acid	2.0 U
	12-Chlorodehydroabietic Acid	2.0 U
57055-39-7	Dichlorodehydroabietic Acid	2.0 U

Resin Acids Surrogate Recovery

O-Methyl Podocarpic Acid 79.2%

ANALYTICAL RESOURCES INCORPORATED

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Resin Acids by GC/MS
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Sample No: MW-112

Lab Sample ID: HJ95K
LIMS ID: 04-20666
Matrix: Water
Data Release Authorized:
Reported: 12/02/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA) 529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date extracted: 11/29/04
Date analyzed: 11/30/04
Instrument: NT1

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1:1

CAS Number	Analyte	ug/L
127-27-5	Pimaric Acid	2.0 U
471-74-9	Sandaracopimaric Acid	2.0 U
5835-26-7	Isopimaric Acid	2.0 U
1945-53-5	Palustric Acid	2.0 U
1740-19-8	Dehydroabietic Acid	2.0 U
514-10-3	Abietic Acid	2.0 U
471-77-2	Neoabietic Acid	2.0 U
	14-Chlorodehydroabietic Acid	2.0 U
	12-Chlorodehydroabietic Acid	2.0 U
57055-39-7	Dichlorodehydroabietic Acid	2.0 U

Resin Acids Surrogate Recovery

O-Methyl Podocarpic Acid 75.2%

ORGANICS ANALYSIS DATA SHEET
Resin Acids by GC/MS

ANALYTICAL RESOURCES INCORPORATED

Sample No: MW-109

Lab Sample ID: HJ95L
LIMS ID: 04-20667
Matrix: Water
Data Release Authorized:
Reported: 12/02/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA) 529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date extracted: 11/29/04
Date analyzed: 11/30/04
Instrument: NT1

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1:1

CAS Number	Analyte	ug/L
127-27-5	Pimaric Acid	2.0 U
471-74-9	Sandaracopimaric Acid	2.0 U
5835-26-7	Isopimaric Acid	2.0 U
1945-53-5	Palustric Acid	2.0 U
1740-19-8	Dehydroabietic Acid	2.0 U
514-10-3	Abietic Acid	2.0 U
471-77-2	Neoabietic Acid	2.0 U
	14-Chlorodehydroabietic Acid	2.0 U
	12-Chlorodehydroabietic Acid	2.0 U
57055-39-7	Dichlorodehydroabietic Acid	2.0 U

Resin Acids Surrogate Recovery

O-Methyl Podocarpic Acid 80.0%

ANALYTICAL RESOURCES INCORPORATED

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Resin Acids by GC/MS
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Sample No: MW-110

Lab Sample ID: HJ95M
LIMS ID: 04-20668
Matrix: Water
Data Release Authorized:
Reported: 12/02/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date extracted: 11/29/04
Date analyzed: 11/30/04
Instrument: NT1

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1:1

CAS Number	Analyte	ug/L
127-27-5	Pimaric Acid	2.0 U
471-74-9	Sandaracopimaric Acid	2.0 U
5835-26-7	Isopimaric Acid	2.0 U
1945-53-5	Palustric Acid	2.0 U
1740-19-8	Dehydroabietic Acid	2.0 U
514-10-3	Abietic Acid	2.0 U
471-77-2	Neoabietic Acid	2.0 U
	14-Chlorodehydroabietic Acid	2.0 U
	12-Chlorodehydroabietic Acid	2.0 U
57055-39-7	Dichlorodehydroabietic Acid	2.0 U

Resin Acids Surrogate Recovery

O-Methyl Podocarpic Acid 75.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Resin Acids by GC/MS

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water

Sample No: MW-111
QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Received: 11/24/04

Data Release Authorized:
Reported: 12/02/04

MATRIX SPIKE/SPIKE DUPLICATE RECOVERY

CONSTITUENT	SAMPLE VALUE	SPIKE VALUE	SPIKE ADDED	% RECOVERY	RPD
MATRIX SPIKE					
Pimaric Acid	< 2.0	39.6	50.0	79.2%	
Isopimaric Acid	< 2.0	35.4	50.0	70.8%	
Dehydroabietic Acid	< 2.0	32.6	50.0	65.2%	
MATRIX SPIKE DUPLICATE					
Pimaric Acid	< 2.0	39.0	50.0	78.0%	1.5%
Isopimaric Acid	< 2.0	34.6	50.0	69.2%	2.3%
Dehydroabietic Acid	< 2.0	31.1	50.0	62.2%	4.7%

Values reported in ug/L

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Resin Acids by GC/MS

Lab Sample ID: HJ95SB
LIMS ID: 04-20664
Matrix: Water

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

Data Release Authorized:
Reported: 12/02/04

LABORATORY CONTROL SAMPLE CONSTITUENT	SPIKE VALUE	SPIKE ADDED	% RECOVERY
Pimaric Acid	43.1	50.0	86.2%
Isopimaric Acid	39.1	50.0	78.2%
Dehydroabietic Acid	34.8	50.0	69.6%

Spike Blank Surrogate Recovery

O-Methyl Podocarpic Acid 88.2%

Values reported in ug/L

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Resin Acids by GC/MS

Lab Sample ID: HJ95SB
LIMS ID: 04-20656
Matrix: Water

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

Data Release Authorized:
Reported: 12/02/04

LABORATORY CONTROL SAMPLE CONSTITUENT	SPIKE VALUE	SPIKE ADDED	% RECOVERY
Pimaric Acid	41.0	50.0	82.0%
Isopimaric Acid	36.7	50.0	73.4%
Dehydroabietic Acid	32.8	50.0	65.6%

Spike Blank Surrogate Recovery

O-Methyl Podocarpic Acid 88.2%

Values reported in ug/L

ANALYTICAL RESOURCES INCORPORATED

WATER RESIN ACID SURROGATE SUMMARY

Matrix: Water

QC Report No: HJ95
Project: Port of Anacortes (POA) 529009

LIMS ID	Lab ID	Client ID	OMPA #	TOT OUT
04-20656MB	112604MB	Method Blank	78.6%	0
04-20656SB	112604SB	Lab Control	88.2%	0
04-20656	HJ95A	MW-111	77.0%	0
04-20656MS	HJ95AMS	MW-111-MS	83.2%	0
04-20656MD	HJ95AMSD	MW-111	79.6%	0
04-20657	HJ95B	MW-101	73.2%	0
04-20658	HJ95C	MW-105	65.8%	0
04-20659	HJ95D	MW-106	68.6%	0
04-20660	HJ95E	MW-107	70.8%	0
04-20661	HJ95F	MW-202	74.2%	0
04-20662	HJ95G	MW-102	65.4%	0
04-20663	HJ95H	MW-104	65.8%	0
04-20664MB	112904MB	Method Blank	78.0%	0
04-20664SB	112904SB	Lab Control	88.2%	0
04-20664	HJ95I	MW-103	85.4%	0
04-20665	HJ95J	MW-108	79.2%	0
04-20666	HJ95K	MW-112	75.2%	0
04-20667	HJ95L	MW-109	80.0%	0
04-20668	HJ95M	MW-110	75.4%	0

	QC LIMITS
(OMPA) = o-Methyl Podocarpic Acid	(30-150)

\# Column to be used to flag recovery values

* Values outside of required QC limits

D Surrogate Compound diluted out

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MB-113004
METHOD BLANK

Lab Sample ID: MB-113004
LIMS ID: 04-20657
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: NA
Date Received: NA

Date Extracted: 11/30/04
Date Analyzed: 12/02/04 23:49
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.030	< 0.030 Y
53469-21-9	Aroclor 1242	0.040	< 0.040 Y
12672-29-6	Aroclor 1248	0.025	< 0.025 Y
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.10	< 0.10 Y
11141-16-5	Aroclor 1232	0.10	< 0.10 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	107%
Tetrachlorometaxylene	89.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082 **Sample ID: MW-111**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/02/04 17:43
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.050	< 0.050 Y
53469-21-9	Aroclor 1242	0.015	< 0.015 Y
12672-29-6	Aroclor 1248	0.025	< 0.025 Y
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.050	< 0.050 Y
11141-16-5	Aroclor 1232	0.025	< 0.025 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	104%
Tetrachlorometaxylene	57.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MW-111
MATRIX SPIKE

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/02/04 18:03
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.010	---
53469-21-9	Aroclor 1242	0.015	< 0.015 Y
12672-29-6	Aroclor 1248	0.025	< 0.025 Y
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	---
11104-28-2	Aroclor 1221	0.050	< 0.050 Y
11141-16-5	Aroclor 1232	0.025	< 0.025 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	98.5%
Tetrachlorometaxylene	61.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MW-111
MATRIX SPIKE DUP

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/02/04 18:24
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.010	---
53469-21-9	Aroclor 1242	0.015	< 0.015 Y
12672-29-6	Aroclor 1248	0.025	< 0.025 Y
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	---
11104-28-2	Aroclor 1221	0.050	< 0.050 Y
11141-16-5	Aroclor 1232	0.025	< 0.025 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	96.8%
Tetrachlorometaxylene	55.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MW-111
SAMPLE

Lab Sample ID: HJ95A
LIMS ID: 04-21005
Matrix: Water
Data Release Authorized:
Reported: 12/15/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/30/04
Date Analyzed: 12/03/04 00:30
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.025	< 0.025 Y
53469-21-9	Aroclor 1242	0.030	< 0.030 Y
12672-29-6	Aroclor 1248	0.030	< 0.030 Y
11097-69-1	Aroclor 1254	0.015	< 0.015 Y
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.025	< 0.025 Y
11141-16-5	Aroclor 1232	0.050	< 0.050 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	91.0%
Tetrachlorometaxylene	45.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MW-111
MATRIX SPIKE

Lab Sample ID: HJ95A
LIMS ID: 04-21005
Matrix: Water
Data Release Authorized:
Reported: 12/15/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/30/04
Date Analyzed: 12/03/04 00:50
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.010	---
53469-21-9	Aroclor 1242	0.030	< 0.030 Y
12672-29-6	Aroclor 1248	0.030	< 0.030 Y
11097-69-1	Aroclor 1254	0.015	< 0.015 Y
11096-82-5	Aroclor 1260	0.010	---
11104-28-2	Aroclor 1221	0.025	< 0.025 Y
11141-16-5	Aroclor 1232	0.050	< 0.050 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	115%
Tetrachlorometaxylene	41.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MW-111
MATRIX SPIKE DUP

Lab Sample ID: HJ95A
LIMS ID: 04-21005
Matrix: Water
Data Release Authorized:
Reported: 12/15/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/30/04
Date Analyzed: 12/03/04 01:11
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.010	---
53469-21-9	Aroclor 1242	0.030	< 0.030 Y
12672-29-6	Aroclor 1248	0.030	< 0.030 Y
11097-69-1	Aroclor 1254	0.015	< 0.015 Y
11096-82-5	Aroclor 1260	0.010	---
11104-28-2	Aroclor 1221	0.025	< 0.025 Y
11141-16-5	Aroclor 1232	0.050	< 0.050 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	104%
Tetrachlorometaxylene	36.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082 **Sample ID: MW-101**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95B
LIMS ID: 04-20657
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA) 529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/08/04 11:51
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.050	< 0.050 Y
53469-21-9	Aroclor 1242	0.050	< 0.050 Y
12672-29-6	Aroclor 1248	0.050	< 0.050 Y
11097-69-1	Aroclor 1254	0.050	< 0.050 Y
11096-82-5	Aroclor 1260	0.050	< 0.050 Y
11104-28-2	Aroclor 1221	0.050	< 0.050 Y
11141-16-5	Aroclor 1232	0.050	< 0.050 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	94.5%
Tetrachlorometaxylene	NR

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MW-101
REEXTRACT

Lab Sample ID: HJ95B
LIMS ID: 04-20657
Matrix: Water
Data Release Authorized:
Reported: 12/15/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/30/04
Date Analyzed: 12/08/04 11:51
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.050	< 0.050 Y
53469-21-9	Aroclor 1242	0.050	< 0.050 Y
12672-29-6	Aroclor 1248	0.050	< 0.050 Y
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.050	< 0.050 Y
11141-16-5	Aroclor 1232	0.050	< 0.050 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	94.5%
Tetrachlorometaxylene	NR

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082 **Sample ID: MW-105**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95C
LIMS ID: 04-20658
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/02/04 19:04
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.015	< 0.015 Y
53469-21-9	Aroclor 1242	0.025	< 0.025 Y
12672-29-6	Aroclor 1248	0.010	< 0.010 U
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.10	< 0.10 Y
11141-16-5	Aroclor 1232	0.025	< 0.025 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	113%
Tetrachlorometaxylene	56.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082 **Sample ID: MW-105**
Page 1 of 1 **REEXTRACT**

Lab Sample ID: HJ95C
LIMS ID: 04-20658
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA) 529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/30/04
Date Analyzed: 12/03/04 01:51
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.015	< 0.015 Y
53469-21-9	Aroclor 1242	0.050	< 0.050 Y
12672-29-6	Aroclor 1248	0.025	< 0.025 Y
11097-69-1	Aroclor 1254	0.015	< 0.015 Y
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.12	< 0.12 Y
11141-16-5	Aroclor 1232	0.12	< 0.12 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	104%
Tetrachlorometaxylene	68.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082 **Sample ID: MW-106**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95D
LIMS ID: 04-20659
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/02/04 19:25
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.010	< 0.010 U
53469-21-9	Aroclor 1242	0.050	< 0.050 Y
12672-29-6	Aroclor 1248	0.010	< 0.010 U
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.10	< 0.10 Y
11141-16-5	Aroclor 1232	0.050	< 0.050 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	107%
Tetrachlorometaxylene	60.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082 **Sample ID: MW-106**
Page 1 of 1 **REEXTRACT**

Lab Sample ID: HJ95D
LIMS ID: 04-20659
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/30/04
Date Analyzed: 12/03/04 02:12
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.050	< 0.050 Y
53469-21-9	Aroclor 1242	0.10	< 0.10 Y
12672-29-6	Aroclor 1248	0.025	< 0.025 Y
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.050	< 0.050 Y
11141-16-5	Aroclor 1232	0.15	< 0.15 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	97.8%
Tetrachlorometaxylene	47.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082 **Sample ID: MW-107**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95E
LIMS ID: 04-20660
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/02/04 19:45
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.010	< 0.010 U
53469-21-9	Aroclor 1242	0.025	< 0.025 Y
12672-29-6	Aroclor 1248	0.025	< 0.025 Y
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.035	< 0.035 Y
11141-16-5	Aroclor 1232	0.025	< 0.025 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	84.8%
Tetrachlorometaxylene	54.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082 **Sample ID: MW-107**
Page 1 of 1 **REEXTRACT**

Lab Sample ID: HJ95E
LIMS ID: 04-20660
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/30/04
Date Analyzed: 12/03/04 02:32
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.10	< 0.10 Y
53469-21-9	Aroclor 1242	0.10	< 0.10 Y
12672-29-6	Aroclor 1248	0.025	< 0.025 Y
11097-69-1	Aroclor 1254	0.015	< 0.015 Y
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.10	< 0.10 Y
11141-16-5	Aroclor 1232	0.15	< 0.15 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	85.5%
Tetrachlorometaxylene	49.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082 **Sample ID: MW-202**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95F
LIMS ID: 04-20661
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/02/04 20:05
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.010	< 0.010 U
53469-21-9	Aroclor 1242	0.025	< 0.025 Y
12672-29-6	Aroclor 1248	0.010	< 0.010 U
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.20	< 0.20 Y
11141-16-5	Aroclor 1232	0.025	< 0.025 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	78.2%
Tetrachlorometaxylene	54.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MW-202
REEXTRACT

Lab Sample ID: HJ95F
LIMS ID: 04-20661
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/30/04
Date Analyzed: 12/03/04 02:53
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.10	< 0.10 Y
53469-21-9	Aroclor 1242	0.10	< 0.10 Y
12672-29-6	Aroclor 1248	0.10	< 0.10 Y
11097-69-1	Aroclor 1254	0.025	< 0.025 Y
11096-82-5	Aroclor 1260	0.015	< 0.015 Y
11104-28-2	Aroclor 1221	0.15	< 0.15 Y
11141-16-5	Aroclor 1232	0.20	< 0.20 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	125%
Tetrachlorometaxylene	54.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082 **Sample ID: MW-102**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95G
LIMS ID: 04-20662
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/02/04 20:26
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.010	< 0.010 U
53469-21-9	Aroclor 1242	0.10	< 0.10 Y
12672-29-6	Aroclor 1248	0.050	< 0.050 Y
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.20	< 0.20 Y
11141-16-5	Aroclor 1232	0.025	< 0.025 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	94.5%
Tetrachlorometaxylene	50.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082 **Sample ID: MW-102**
Page 1 of 1 **REEXTRACT**

Lab Sample ID: HJ95G
LIMS ID: 04-20662
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/30/04
Date Analyzed: 12/03/04 03:13
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.10	< 0.10 Y
53469-21-9	Aroclor 1242	0.10	< 0.10 Y
12672-29-6	Aroclor 1248	0.050	< 0.050 Y
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.15	< 0.15 Y
11141-16-5	Aroclor 1232	0.10	< 0.10 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	106%
Tetrachlorometaxylene	52.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082 **Sample ID: MW-104**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95H
LIMS ID: 04-20663
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/02/04 20:46
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.025	< 0.025 Y
53469-21-9	Aroclor 1242	0.025	< 0.025 Y
12672-29-6	Aroclor 1248	0.025	< 0.025 Y
11097-69-1	Aroclor 1254	0.015	< 0.015 Y
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.050	< 0.050 Y
11141-16-5	Aroclor 1232	0.025	< 0.025 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	94.5%
Tetrachlorometaxylene	45.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MW-104
REEXTRACT

Lab Sample ID: HJ95H
LIMS ID: 04-20663
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/30/04
Date Analyzed: 12/03/04 03:33
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.10	< 0.10 Y
53469-21-9	Aroclor 1242	0.10	< 0.10 Y
12672-29-6	Aroclor 1248	0.050	< 0.050 Y
11097-69-1	Aroclor 1254	0.025	< 0.025 Y
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.10	< 0.10 Y
11141-16-5	Aroclor 1232	0.10	< 0.10 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	93.5%
Tetrachlorometaxylene	49.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082 **Sample ID: MW-103**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95I
LIMS ID: 04-20664
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/02/04 21:06
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.020	< 0.020 Y
53469-21-9	Aroclor 1242	0.040	< 0.040 Y
12672-29-6	Aroclor 1248	0.025	< 0.025 Y
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.10	< 0.10 Y
11141-16-5	Aroclor 1232	0.050	< 0.050 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	89.5%
Tetrachlorometaxylene	61.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MW-103
REEXTRACT

Lab Sample ID: HJ95I
LIMS ID: 04-20664
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/30/04
Date Analyzed: 12/03/04 03:54
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.10	< 0.10 Y
53469-21-9	Aroclor 1242	0.10	< 0.10 Y
12672-29-6	Aroclor 1248	0.10	< 0.10 Y
11097-69-1	Aroclor 1254	0.015	< 0.015 Y
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.10	< 0.10 Y
11141-16-5	Aroclor 1232	0.10	< 0.10 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	109%
Tetrachlorometaxylene	54.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MW-108
SAMPLE

Lab Sample ID: HJ95J
LIMS ID: 04-20665
Matrix: Water
Data Release Authorized:
Reported: 12/15/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/30/04
Date Analyzed: 12/03/04 04:14
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.10	< 0.10 Y
53469-21-9	Aroclor 1242	0.10	< 0.10 Y
12672-29-6	Aroclor 1248	0.10	< 0.10 Y
11097-69-1	Aroclor 1254	0.025	< 0.025 Y
11096-82-5	Aroclor 1260	0.015	< 0.015 Y
11104-28-2	Aroclor 1221	0.10	< 0.10 Y
11141-16-5	Aroclor 1232	0.10	< 0.10 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	110%
Tetrachlorometaxylene	51.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082 **Sample ID: MW-112**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95K
LIMS ID: 04-20666
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/02/04 21:27
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.010	< 0.010 U
53469-21-9	Aroclor 1242	0.030	< 0.030 Y
12672-29-6	Aroclor 1248	0.030	< 0.030 Y
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.10	< 0.10 Y
11141-16-5	Aroclor 1232	0.025	< 0.025 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	103%
Tetrachlorometaxylene	50.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082 **Sample ID: MW-112**
Page 1 of 1 **REEXTRACT**

Lab Sample ID: HJ95K
LIMS ID: 04-20666
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/30/04
Date Analyzed: 12/03/04 04:35
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.10	< 0.10 Y
53469-21-9	Aroclor 1242	0.050	< 0.050 Y
12672-29-6	Aroclor 1248	0.050	< 0.050 Y
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.050	< 0.050 Y
11141-16-5	Aroclor 1232	0.10	< 0.10 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	101%
Tetrachlorometaxylene	45.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MW-109
SAMPLE

Lab Sample ID: HJ95L
LIMS ID: 04-20667
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/02/04 21:47
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.010	< 0.010 U
53469-21-9	Aroclor 1242	0.015	< 0.015 Y
12672-29-6	Aroclor 1248	0.025	< 0.025 Y
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.050	< 0.050 Y
11141-16-5	Aroclor 1232	0.020	< 0.020 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	104%
Tetrachlorometaxylene	46.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MW-109
REEXTRACT

Lab Sample ID: HJ95L
LIMS ID: 04-20667
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/30/04
Date Analyzed: 12/03/04 04:55
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.050	< 0.050 Y
53469-21-9	Aroclor 1242	0.050	< 0.050 Y
12672-29-6	Aroclor 1248	0.025	< 0.025 Y
11097-69-1	Aroclor 1254	0.010	< 0.010 U
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.050	< 0.050 Y
11141-16-5	Aroclor 1232	0.10	< 0.10 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	92.8%
Tetrachlorometaxylene	35.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082 **Sample ID: MW-110**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95M
LIMS ID: 04-20668
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/03/04 05:15
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.10	< 0.10 Y
53469-21-9	Aroclor 1242	0.10	< 0.10 Y
12672-29-6	Aroclor 1248	0.050	< 0.050 Y
11097-69-1	Aroclor 1254	0.025	< 0.025 Y
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.10	< 0.10 Y
11141-16-5	Aroclor 1232	0.10	< 0.10 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	73.8%
Tetrachlorometaxylene	63.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MW-110
REEXTRACT

Lab Sample ID: HJ95M
LIMS ID: 04-20668
Matrix: Water
Data Release Authorized:
Reported: 12/15/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/30/04
Date Analyzed: 12/03/04 05:15
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	0.10	< 0.10 Y
53469-21-9	Aroclor 1242	0.10	< 0.10 Y
12672-29-6	Aroclor 1248	0.050	< 0.050 Y
11097-69-1	Aroclor 1254	0.025	< 0.025 Y
11096-82-5	Aroclor 1260	0.010	< 0.010 U
11104-28-2	Aroclor 1221	0.10	< 0.10 Y
11141-16-5	Aroclor 1232	0.10	< 0.10 Y

Reported in µg/L (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	73.8%
Tetrachlorometaxylene	63.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MW-111
MS/MSD

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted MS/MSD: 11/29/04

Date Analyzed MS: 12/02/04 18:03
MSD: 12/02/04 18:24
Instrument/Analyst MS: ECD5/PK
MSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount MS: 1000 mL
MSD: 1000 mL
Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL
Dilution Factor MS: 1.00
MSD: 1.00
Silica Gel: No
Acid Cleanup: Yes

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Aroclor 1016	< 0.050	0.167	0.256	65.2%	0.182	0.256	71.1%	8.6%
Aroclor 1260	< 0.010	0.224	0.256	87.5%	0.192	0.256	75.0%	15.4%

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

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082 **Sample ID: MW-111**
Page 1 of 1 **MS/MSD**

Lab Sample ID: HJ95A
LIMS ID: 04-21005
Matrix: Water
Data Release Authorized:
Reported: 12/15/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted MS/MSD: 11/30/04

Date Analyzed MS: 12/03/04 00:50
MSD: 12/03/04 01:11
Instrument/Analyst MS: ECD5/PK
MSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount MS: 1000 mL
MSD: 1000 mL
Final Extract Volume MS: 0.5 mL
MSD: 0.5 mL
Dilution Factor MS: 1.00
MSD: 1.00
Silica Gel: No
Acid Cleanup: Yes

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Aroclor 1016	< 0.025	0.137	0.256	53.5%	0.147	0.256	57.4%	7.0%
Aroclor 1260	< 0.010	0.200	0.256	78.1%	0.173	0.256	67.6%	14.5%

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

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: LCS-113004
LAB CONTROL

Lab Sample ID: LCS-113004
LIMS ID: 04-20657
Matrix: Water
Data Release Authorized:
Reported: 12/09/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: NA
Date Received: NA

Date Extracted: 11/30/04
Date Analyzed: 12/03/04 00:10
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 1000 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Silica Gel: No
Acid Cleanup: Yes

Analyte	Lab Control	Spike Added	Recovery
Aroclor 1016	0.236	0.256	92.2%
Aroclor 1260	0.235	0.256	91.8%

PCB Surrogate Recovery

Decachlorobiphenyl	126%
Tetrachlorometaxylene	68.2%

Results reported in µg/L

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

Client ID	DCBP	TCMX	TOT OUT
MW-111	104%	57.8%	0
MW-111 MS	98.5%	61.8%	0
MW-111 MSD	96.8%	55.5%	0
MB-113004	107%	89.0%	0
LCS-113004	126%	68.2%	0
MW-101	NR	NR	0
MW-101 RE	94.5%	NR	0
MW-105	113%	56.8%	0
MW-105 RE	104%	68.5%	0
MW-106	107%	60.2%	0
MW-106 RE	97.8%	47.5%	0
MW-107	84.8%	54.5%	0
MW-107 RE	85.5%	49.0%	0
MW-202	78.2%	54.5%	0
MW-202 RE	125%	54.8%	0
MW-102	94.5%	50.2%	0
MW-102 RE	106%	52.5%	0
MW-104	94.5%	45.2%	0
MW-104 RE	93.5%	49.0%	0
MW-103	89.5%	61.2%	0
MW-103 RE	109%	54.2%	0
MW-108	110%	51.8%	0
MW-112	103%	50.8%	0
MW-112 RE	101%	45.8%	0
MW-109	104%	46.5%	0
MW-109 RE	92.8%	35.5%	0
MW-110	94.2%	84.5%	0
MW-110 RE	73.8%	63.2%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(42-138)	(25-134)
(TCMX) = Tetrachlorometaxylene	(32-117)	(25-118)

Prep Method: SW3510C
Log Number Range: 04-20656 to 04-20668

FORM-II SW8082

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

Client ID	DCBP	TCMX	TOT OUT
MW-111	104%	57.8%	0
MW-111 MS	98.5%	61.8%	0
MW-111 MSD	96.8%	55.5%	0
MB-113004	107%	89.0%	0
LCS-113004	126%	68.2%	0
MW-101	NR	NR	0
MW-101 RE	94.5%	NR	0
MW-105	113%	56.8%	0
MW-105 RE	104%	68.5%	0
MW-106	107%	60.2%	0
MW-106 RE	97.8%	47.5%	0
MW-107	84.8%	54.5%	0
MW-107 RE	85.5%	49.0%	0
MW-202	78.2%	54.5%	0
MW-202 RE	125%	54.8%	0
MW-102	94.5%	50.2%	0
MW-102 RE	106%	52.5%	0
MW-104	94.5%	45.2%	0
MW-104 RE	93.5%	49.0%	0
MW-103	89.5%	61.2%	0
MW-103 RE	109%	54.2%	0
MW-108	110%	51.8%	0
MW-112	103%	50.8%	0
MW-112 RE	101%	45.8%	0
MW-109	104%	46.5%	0
MW-109 RE	92.8%	35.5%	0
MW-110	94.2%	84.5%	0
MW-110 RE	73.8%	63.2%	0
MW-111	91.0%	45.0%	0
MW-111 MS	115%	41.2%	0
MW-111 MSD	104%	36.8%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(42-138)	(25-134)
(TCMX) = Tetrachlorometaxylene	(32-117)	(25-118)

Prep Method: SW3510C
Log Number Range: 04-20656 to 04-21005

FORM-II SW8082

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD Method 8081A **Sample ID: MB-112604**
Page 1 of 1 **METHOD BLANK**

Lab Sample ID: MB-112604
LIMS ID: 04-20658
Matrix: Water
Data Release Authorized:
Reported: 12/03/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: NA
Date Received: NA

Date Extracted: 11/26/04
Date Analyzed: 12/01/04 17:18
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
pH: NA
Florisil Cleanup: No
Silica Gel: No

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.050	< 0.050 U
319-85-7	beta-BHC	0.050	< 0.050 U
319-86-8	delta-BHC	0.050	< 0.050 U
58-89-9	gamma-BHC (Lindane)	0.050	< 0.050 U
76-44-8	Heptachlor	0.050	< 0.050 U
309-00-2	Aldrin	0.050	< 0.050 U
1024-57-3	Heptachlor Epoxide	0.050	< 0.050 U
959-98-8	Endosulfan I	0.050	< 0.050 U
60-57-1	Dieldrin	0.10	< 0.10 U
72-55-9	4,4'-DDE	0.10	< 0.10 U
72-20-8	Endrin	0.10	< 0.10 U
33213-65-9	Endosulfan II	0.10	< 0.10 U
72-54-8	4,4'-DDD	0.10	< 0.10 U
1031-07-8	Endosulfan Sulfate	0.10	< 0.10 U
50-29-3	4,4'-DDT	0.10	< 0.10 U
72-43-5	Methoxychlor	0.50	< 0.50 U
53494-70-5	Endrin Ketone	0.10	< 0.10 U
7421-93-4	Endrin Aldehyde	0.10	< 0.10 U
5103-74-2	gamma Chlordane	0.050	< 0.050 U
5103-71-9	alpha Chlordane	0.050	< 0.050 U
8001-35-2	Toxaphene	5.0	< 5.0 U

Reported in µg/L (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	71.0%
Tetrachlorometaxylene	70.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD Method 8081A **Sample ID: MW-105**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95C
LIMS ID: 04-20658
Matrix: Water
Data Release Authorized:
Reported: 12/03/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/26/04
Date Analyzed: 12/01/04 18:59
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
pH: 6.6
Florisil Cleanup: No
Silica Gel: No

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.050	< 0.050 U
319-85-7	beta-BHC	0.050	< 0.050 U
319-86-8	delta-BHC	0.050	< 0.050 U
58-89-9	gamma-BHC (Lindane)	0.050	< 0.050 U
76-44-8	Heptachlor	0.050	< 0.050 U
309-00-2	Aldrin	0.050	< 0.050 U
1024-57-3	Heptachlor Epoxide	0.050	< 0.050 U
959-98-8	Endosulfan I	0.050	< 0.050 U
60-57-1	Dieldrin	0.10	< 0.10 U
72-55-9	4,4'-DDE	0.10	< 0.10 U
72-20-8	Endrin	0.10	< 0.10 U
33213-65-9	Endosulfan II	0.10	< 0.10 U
72-54-8	4,4'-DDD	0.10	< 0.10 U
1031-07-8	Endosulfan Sulfate	0.10	< 0.10 U
50-29-3	4,4'-DDT	0.10	< 0.10 U
72-43-5	Methoxychlor	0.50	< 0.50 U
53494-70-5	Endrin Ketone	0.10	< 0.10 U
7421-93-4	Endrin Aldehyde	0.10	< 0.10 U
5103-74-2	gamma Chlordane	0.050	< 0.050 U
5103-71-9	alpha Chlordane	0.050	< 0.050 U
8001-35-2	Toxaphene	5.0	< 5.0 U

Reported in µg/L (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	94.5%
Tetrachlorometaxylene	68.0%

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD Method 8081A **Sample ID: MW-106**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95D
LIMS ID: 04-20659
Matrix: Water
Data Release Authorized:
Reported: 12/03/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/26/04
Date Analyzed: 12/01/04 19:33
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
pH: 7.1
Florisil Cleanup: No
Silica Gel: No

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.050	< 0.050 U
319-85-7	beta-BHC	0.050	< 0.050 U
319-86-8	delta-BHC	0.050	< 0.050 U
58-89-9	gamma-BHC (Lindane)	0.050	< 0.050 U
76-44-8	Heptachlor	0.050	< 0.050 U
309-00-2	Aldrin	0.050	< 0.050 U
1024-57-3	Heptachlor Epoxide	0.050	< 0.050 U
959-98-8	Endosulfan I	0.050	< 0.050 U
60-57-1	Dieldrin	0.10	< 0.10 U
72-55-9	4,4'-DDE	0.10	< 0.10 U
72-20-8	Endrin	0.10	< 0.10 U
33213-65-9	Endosulfan II	0.10	< 0.10 U
72-54-8	4,4'-DDD	0.10	< 0.10 U
1031-07-8	Endosulfan Sulfate	0.10	< 0.10 U
50-29-3	4,4'-DDT	0.10	< 0.10 U
72-43-5	Methoxychlor	0.50	< 0.50 U
53494-70-5	Endrin Ketone	0.10	< 0.10 U
7421-93-4	Endrin Aldehyde	0.10	< 0.10 U
5103-74-2	gamma Chlordane	0.050	< 0.050 U
5103-71-9	alpha Chlordane	0.050	< 0.050 U
8001-35-2	Toxaphene	5.0	< 5.0 U

Reported in µg/L (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	89.5%
Tetrachlorometaxylene	69.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD Method 8081A **Sample ID: MW-107**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95E
LIMS ID: 04-20660
Matrix: Water
Data Release Authorized:
Reported: 12/03/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/26/04
Date Analyzed: 12/01/04 20:07
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
pH: 6.9
Florisil Cleanup: No
Silica Gel: No

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.050	< 0.050 U
319-85-7	beta-BHC	0.050	< 0.050 U
319-86-8	delta-BHC	0.050	< 0.050 U
58-89-9	gamma-BHC (Lindane)	0.050	< 0.050 U
76-44-8	Heptachlor	0.050	< 0.050 U
309-00-2	Aldrin	0.050	< 0.050 U
1024-57-3	Heptachlor Epoxide	0.050	< 0.050 U
959-98-8	Endosulfan I	0.050	< 0.050 U
60-57-1	Dieldrin	0.10	< 0.10 U
72-55-9	4,4'-DDE	0.10	< 0.10 U
72-20-8	Endrin	0.10	< 0.10 U
33213-65-9	Endosulfan II	0.10	< 0.10 U
72-54-8	4,4'-DDD	0.10	< 0.10 U
1031-07-8	Endosulfan Sulfate	0.10	< 0.10 U
50-29-3	4,4'-DDT	0.10	< 0.10 U
72-43-5	Methoxychlor	0.50	< 0.50 U
53494-70-5	Endrin Ketone	0.10	< 0.10 U
7421-93-4	Endrin Aldehyde	0.10	< 0.10 U
5103-74-2	gamma Chlordane	0.050	< 0.050 U
5103-71-9	alpha Chlordane	0.050	< 0.050 U
8001-35-2	Toxaphene	5.0	< 5.0 U

Reported in µg/L (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	82.8%
Tetrachlorometaxylene	66.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD Method 8081A **Sample ID: MW-108**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95J
LIMS ID: 04-20665
Matrix: Water
Data Release Authorized: AMS
Reported: 12/03/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Date Extracted: 11/26/04
Date Analyzed: 12/01/04 20:41
Instrument/Analyst: ECD4/YZ
GPC Cleanup: No
Sulfur Cleanup: Yes

Sample Amount: 500 mL
Final Extract Volume: 5.0 mL
Dilution Factor: 1.00
pH: 6.5
Florisil Cleanup: No
Silica Gel: No

CAS Number	Analyte	RL	Result
319-84-6	alpha-BHC	0.050	< 0.050 U
319-85-7	beta-BHC	0.050	< 0.050 U
319-86-8	delta-BHC	0.050	< 0.050 U
58-89-9	gamma-BHC (Lindane)	0.050	< 0.050 U
76-44-8	Heptachlor	0.050	< 0.050 U
309-00-2	Aldrin	0.050	< 0.050 U
1024-57-3	Heptachlor Epoxide	0.050	< 0.050 U
959-98-8	Endosulfan I	0.050	< 0.050 U
60-57-1	Dieldrin	0.10	< 0.10 U
72-55-9	4,4'-DDE	0.10	< 0.10 U
72-20-8	Endrin	0.10	< 0.10 U
33213-65-9	Endosulfan II	0.10	< 0.10 U
72-54-8	4,4'-DDD	0.10	< 0.10 U
1031-07-8	Endosulfan Sulfate	0.10	< 0.10 U
50-29-3	4,4'-DDT	0.10	< 0.10 U
72-43-5	Methoxychlor	0.50	< 0.50 U
53494-70-5	Endrin Ketone	0.10	< 0.10 U
7421-93-4	Endrin Aldehyde	0.10	< 0.10 U
5103-74-2	gamma Chlordane	0.050	< 0.050 U
5103-71-9	alpha Chlordane	0.050	< 0.050 U
8001-35-2	Toxaphene	5.0	< 5.0 U

Reported in µg/L (ppb)

Pest/PCB Surrogate Recovery

Decachlorobiphenyl	80.8%
Tetrachlorometaxylene	61.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Pesticides/PCB by GC/ECD Method 8081A **Sample ID: LCS-112604**
Page 1 of 1 **LCS/LCSD**

Lab Sample ID: LCS-112604 QC Report No: HJ95-Landau Associates
LIMS ID: 04-20658 Project: Port of Anacortes (POA)
Matrix: Water 529009
Data Release Authorized: Date Sampled: 11/22/04
Reported: 12/03/04 Date Received: 11/24/04

Date Extracted LCS/LCSD: 11/26/04 Sample Amount LCS: 500 mL
LCSD: 500 mL
Date Analyzed LCS: 12/01/04 17:52 Final Extract Volume LCS: 5.0 mL
LCSD: 12/01/04 18:25 LCSD: 5.0 mL
Instrument/Analyst LCS: ECD4/YZ Dilution Factor LCS: 1.00
LCSD: ECD4/YZ LCSD: 1.00
GPC Cleanup: No Sulfur Cleanup: Yes
Florisil Cleanup: No Silica Gel: No

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
alpha-BHC	0.181	0.200	90.5%	0.184	0.200	92.0%	1.6%
beta-BHC	0.197	0.200	98.5%	0.198	0.200	99.0%	0.5%
delta-BHC	0.177	0.200	88.5%	0.186	0.200	93.0%	5.0%
gamma-BHC (Lindane)	0.184	0.200	92.0%	0.187	0.200	93.5%	1.6%
Heptachlor	0.186	0.200	93.0%	0.190	0.200	95.0%	2.1%
Aldrin	0.176	0.200	88.0%	0.178	0.200	89.0%	1.1%
Heptachlor Epoxide	0.204	0.200	102%	0.206	0.200	103%	1.0%
Endosulfan I	0.200	0.200	100%	0.203	0.200	102%	1.5%
Dieldrin	0.414	0.400	104%	0.419	0.400	105%	1.2%
4,4'-DDE	0.380	0.400	95.0%	0.373	0.400	93.2%	1.9%
Endrin	0.391	0.400	97.8%	0.395	0.400	98.8%	1.0%
Endosulfan II	0.446	0.400	112%	0.444	0.400	111%	0.4%
4,4'-DDD	0.410	0.400	102%	0.413	0.400	103%	0.7%
Endosulfan Sulfate	0.428	0.400	107%	0.441	0.400	110%	3.0%
4,4'-DDT	0.402	0.400	100%	0.399	0.400	99.8%	0.7%
Methoxychlor	2.32	2.00	116%	2.32	2.00	116%	0.0%
Endrin Ketone	0.446	0.400	112%	0.470	0.400	118%	5.2%
Endrin Aldehyde	0.300	0.400	75.0%	0.315	0.400	78.8%	4.9%
gamma Chlordane	0.192	0.200	96.0%	0.191	0.200	95.5%	0.5%
alpha Chlordane	0.192	0.200	96.0%	0.192	0.200	96.0%	0.0%

Pest/PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	59.5%	54.2%
Tetrachlorometaxylene	64.8%	64.0%

Results reported in µg/L (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

SW8081/PESTICIDE WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

Client ID	DCBP	TCMX	TOT OUT
MB-112604	71.0%	70.8%	0
LCS-112604	59.5%	64.8%	0
LCSD-112604	54.2%	64.0%	0
MW-105	94.5%	68.0%	0
MW-106	89.5%	69.0%	0
MW-107	82.8%	66.0%	0
MW-108	80.8%	61.2%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(45-121)	(10-133)
(TCMX) = Tetrachlorometaxylene	(29-93)	(17-110)

Prep Method: SW3510C
Log Number Range: 04-20658 to 04-20665

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL GASOLINE RANGE HYDROCARBONS
NWTPHg Toluene to Naphthalene
Page 1 of 2
Matrix: Water

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

Data Release Authorized:
Reported: 12/02/04

ARI ID	Client ID	Analysis Date	DL	Range	Result mg/L
MB-113004	Method Blank	11/30/04		Gasoline	< 0.25 U
04-20656		PID2		HC ID	---
				Trifluorotoluene	99.9%
				Bromobenzene	94.7%
HJ95A	MW-111	11/30/04		Gasoline	< 0.25 U
04-20656		PID2		HC ID	---
				Trifluorotoluene	99.4%
				Bromobenzene	105%
HJ95B	MW-101	11/30/04		Gasoline	< 0.25 U
04-20657		PID2		HC ID	---
				Trifluorotoluene	96.6%
				Bromobenzene	104%
HJ95C	MW-105	11/30/04		Gasoline	< 0.25 U
04-20658		PID2		HC ID	---
				Trifluorotoluene	99.6%
				Bromobenzene	104%
HJ95D	MW-106	11/30/04		Gasoline	< 0.25 U
04-20659		PID2		HC ID	---
				Trifluorotoluene	94.8%
				Bromobenzene	98.0%
HJ95E	MW-107	11/30/04		Gasoline	< 0.25 U
04-20660		PID2		HC ID	---
				Trifluorotoluene	95.8%
				Bromobenzene	96.4%
HJ95F	MW-202	11/30/04		Gasoline	< 0.25 U
04-20661		PID2		HC ID	---
				Trifluorotoluene	101%
				Bromobenzene	96.9%
HJ95G	MW-102	11/30/04		Gasoline	< 0.25 U
04-20662		PID2		HC ID	---
				Trifluorotoluene	95.3%
				Bromobenzene	104%
HJ95H	MW-104	11/30/04		Gasoline	< 0.25 U
04-20663		PID2		HC ID	---
				Trifluorotoluene	99.5%
				Bromobenzene	96.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL GASOLINE RANGE HYDROCARBONS
NWTPHg Toluene to Naphthalene
Page 2 of 2
Matrix: Water

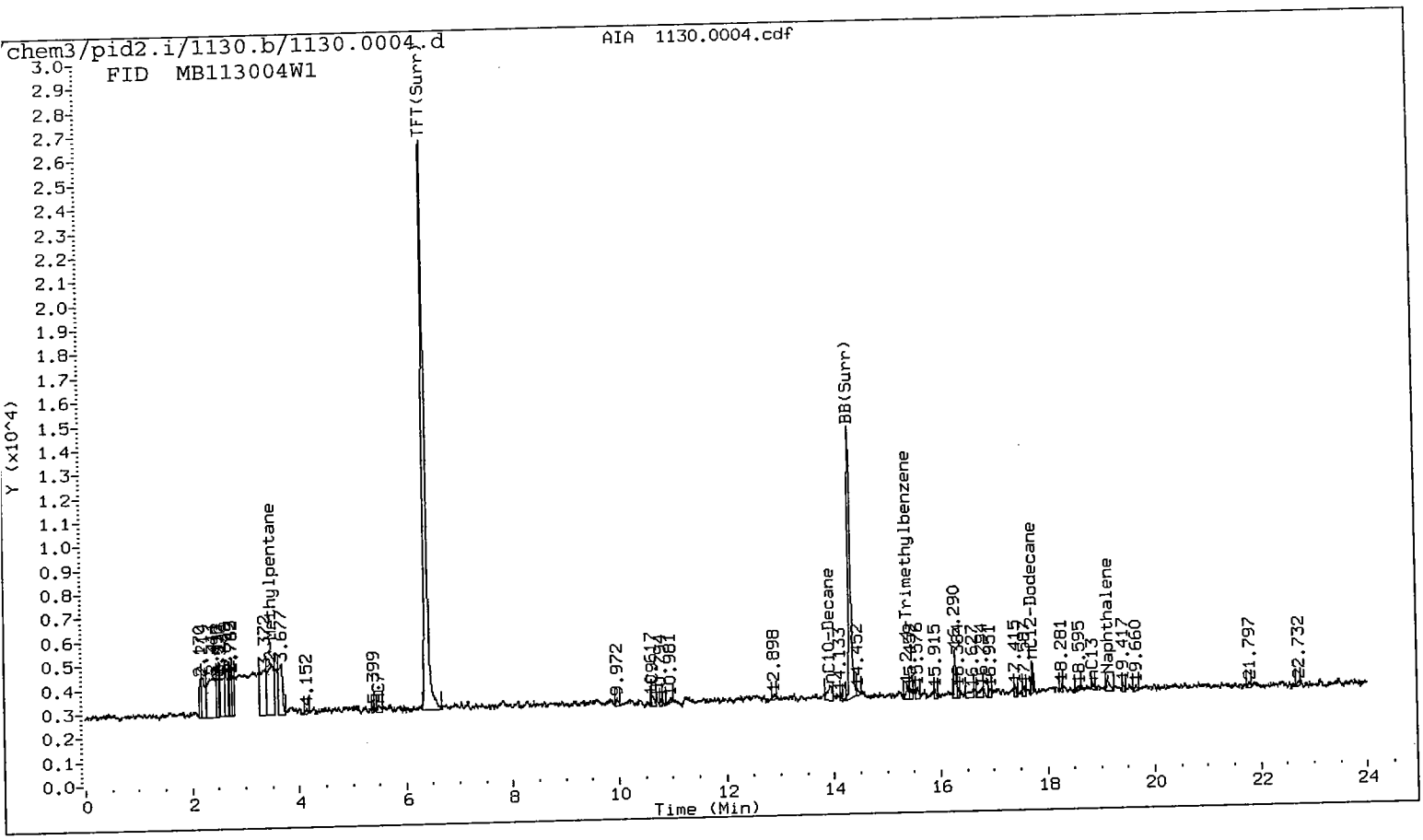
QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

Data Release Authorized:
Reported: 12/02/04

ARI ID	Client ID	Analysis Date	DL	Range	Result mg/L
HJ95I	MW-103	11/30/04		Gasoline	< 0.25 U
04-20664		PID2		HC ID	---
				Trifluorotoluene	98.5%
				Bromobenzene	104%
HJ95J	MW-108	12/01/04		Gasoline	< 0.25 U
04-20665		PID2		HC ID	---
				Trifluorotoluene	100%
				Bromobenzene	102%
HJ95K	MW-112	12/01/04		Gasoline	< 0.25 U
04-20666		PID2		HC ID	---
				Trifluorotoluene	100%
				Bromobenzene	104%
HJ95L	MW-109	12/01/04		Gasoline	< 0.25 U
04-20667		PID2		HC ID	---
				Trifluorotoluene	100%
				Bromobenzene	108%
HJ95M	MW-110	12/01/04		Gasoline	< 0.25 U
04-20668		PID2		HC ID	---
				Trifluorotoluene	95.9%
				Bromobenzene	103%
HJ95N	Trip Blank	11/30/04		Gasoline	< 0.25 U
04-20669		PID2		HC ID	---
				Trifluorotoluene	105%
				Bromobenzene	104%

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.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TFT(Surr)
BB(Surr)
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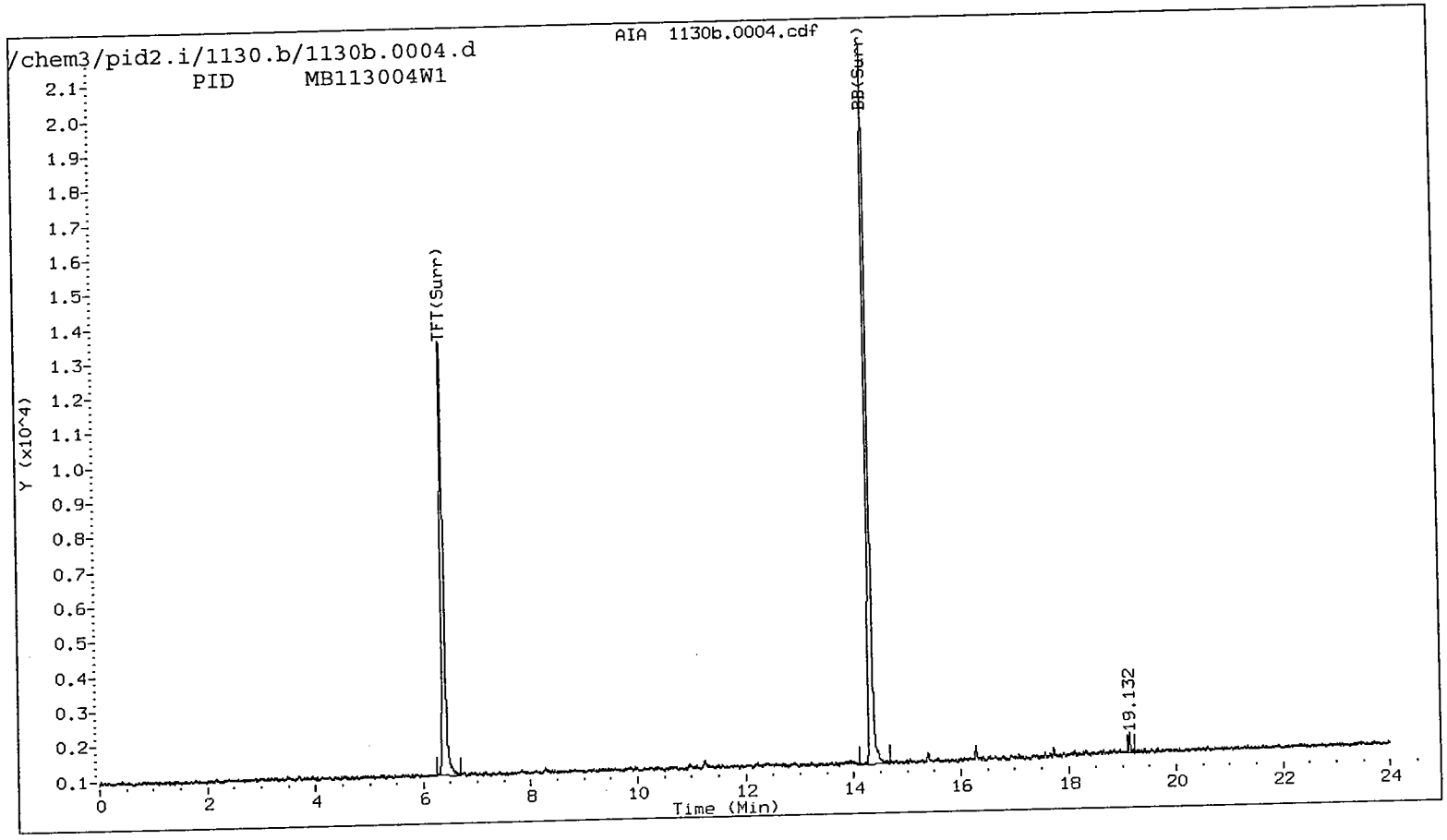
nC10-Decane
nC12-Dodecane
nC13
Naphthalene
Y (x10^4)
Time (Min)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000139

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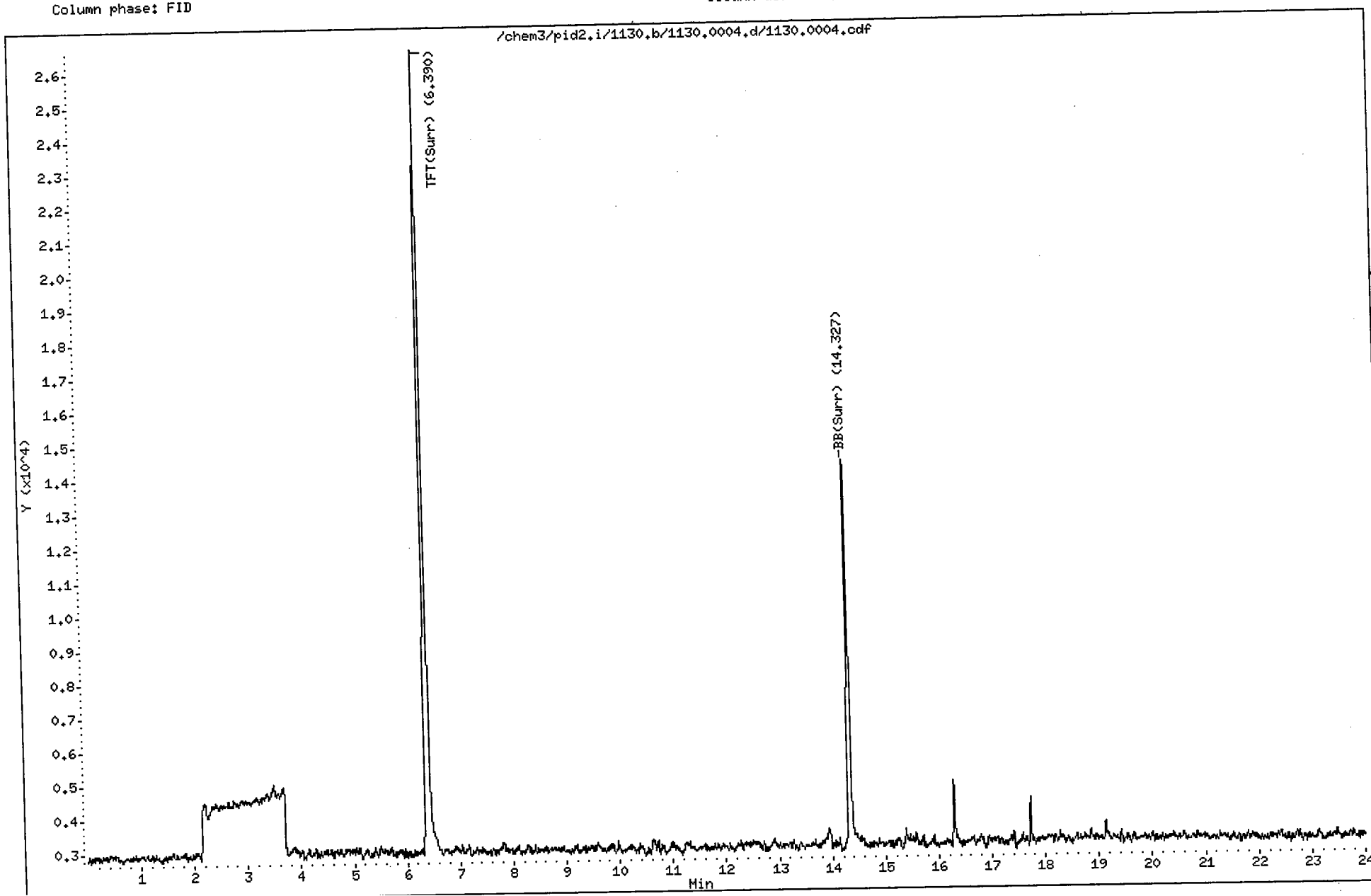
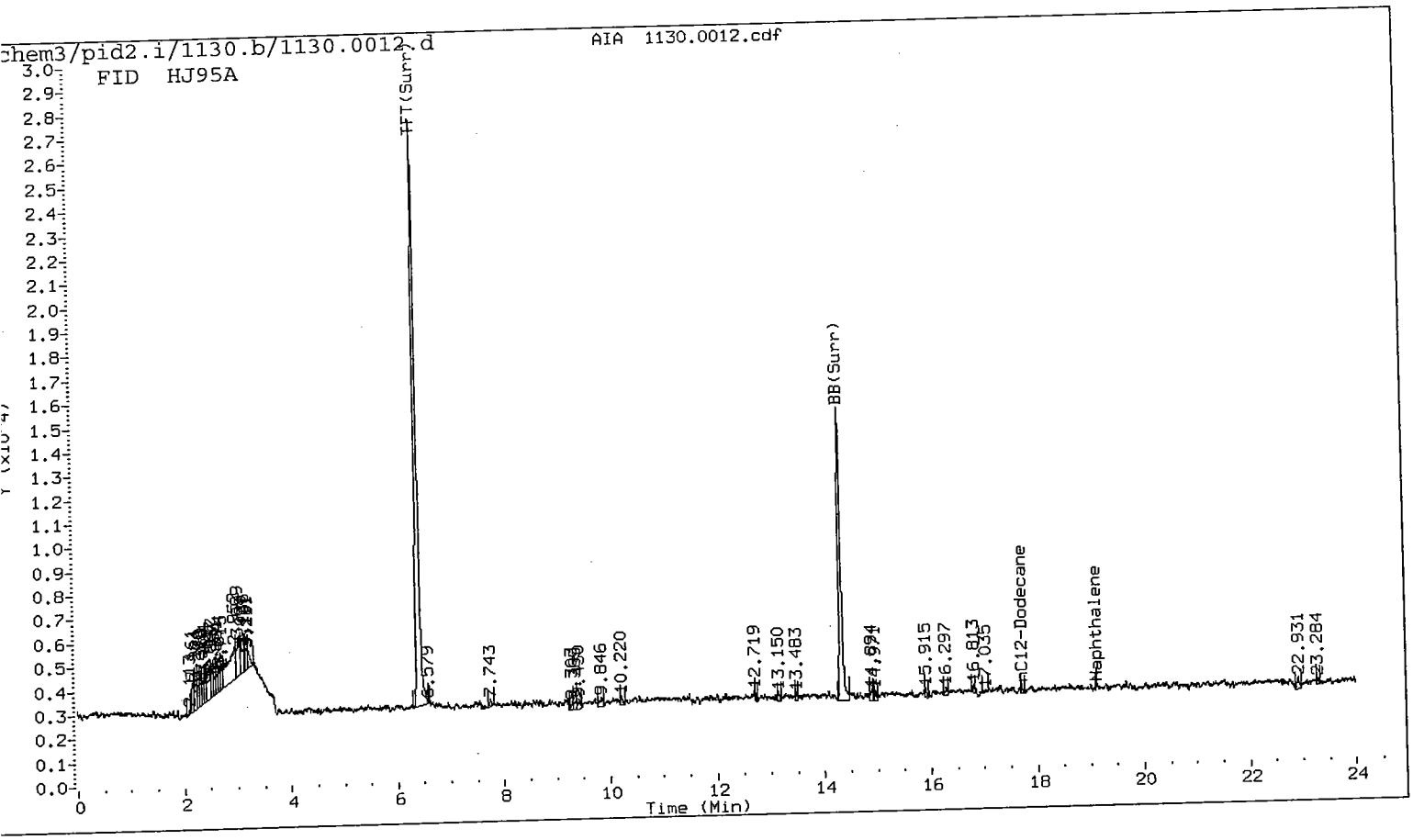
Sample Info: MB113004W1

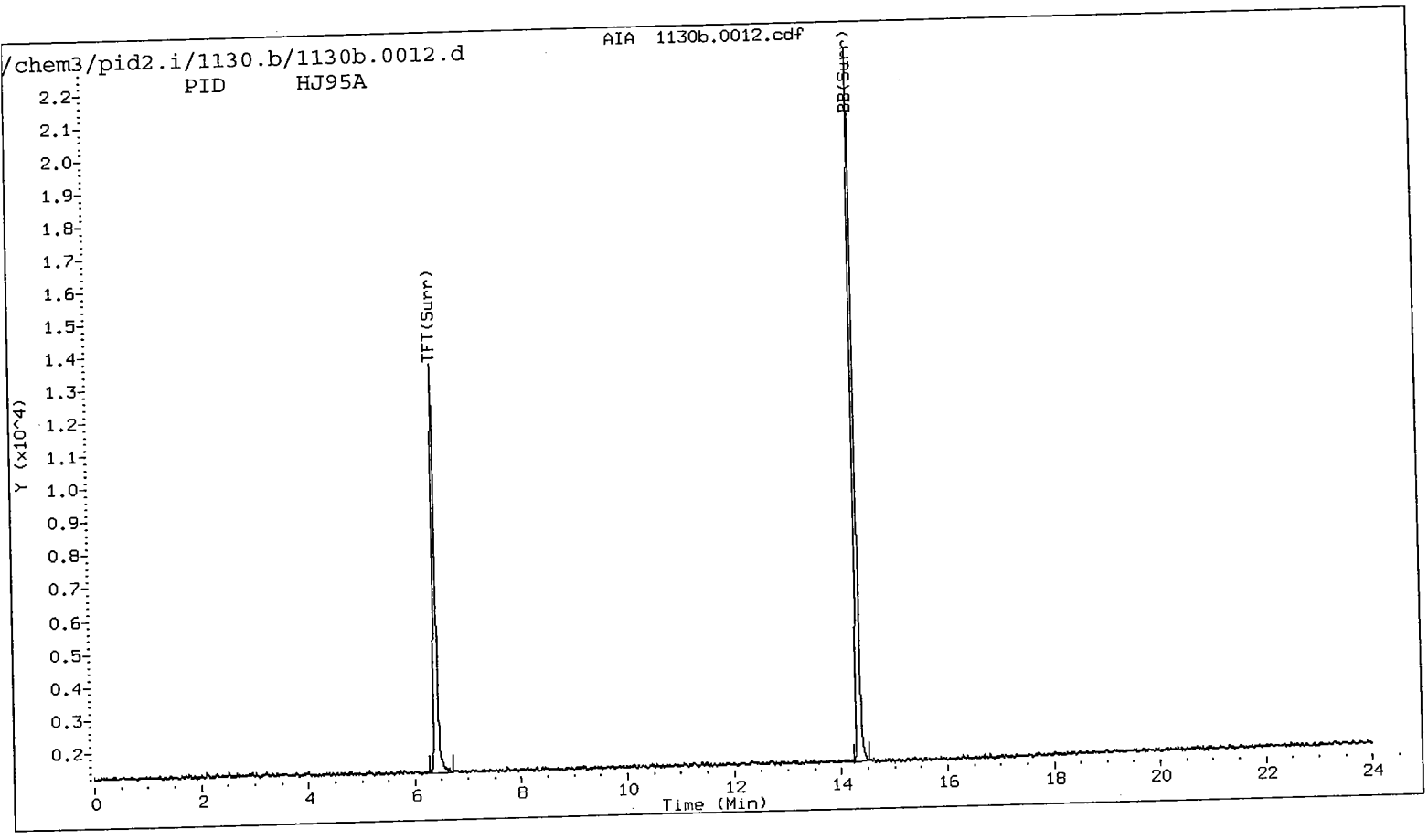
Instrument: pid2.i

Operator: PC
Column diameter: 2.00

Column phase: FID




/chem3/pid2.i/1130.b/1130.0012.d
FID HJ95A
AIA 1130.0012.cdf
TFT(Surr)
BB(Surr)
nC12-Dodecane
Naphthalene
Time (Min)


/chem3/pid2.i/1130.b/1130b.0012.d
PID HJ95A
AIA 1130b.0012.cdf
TFT(Surr)
BB(Surr)
Y (x10^4)
Time (Min)

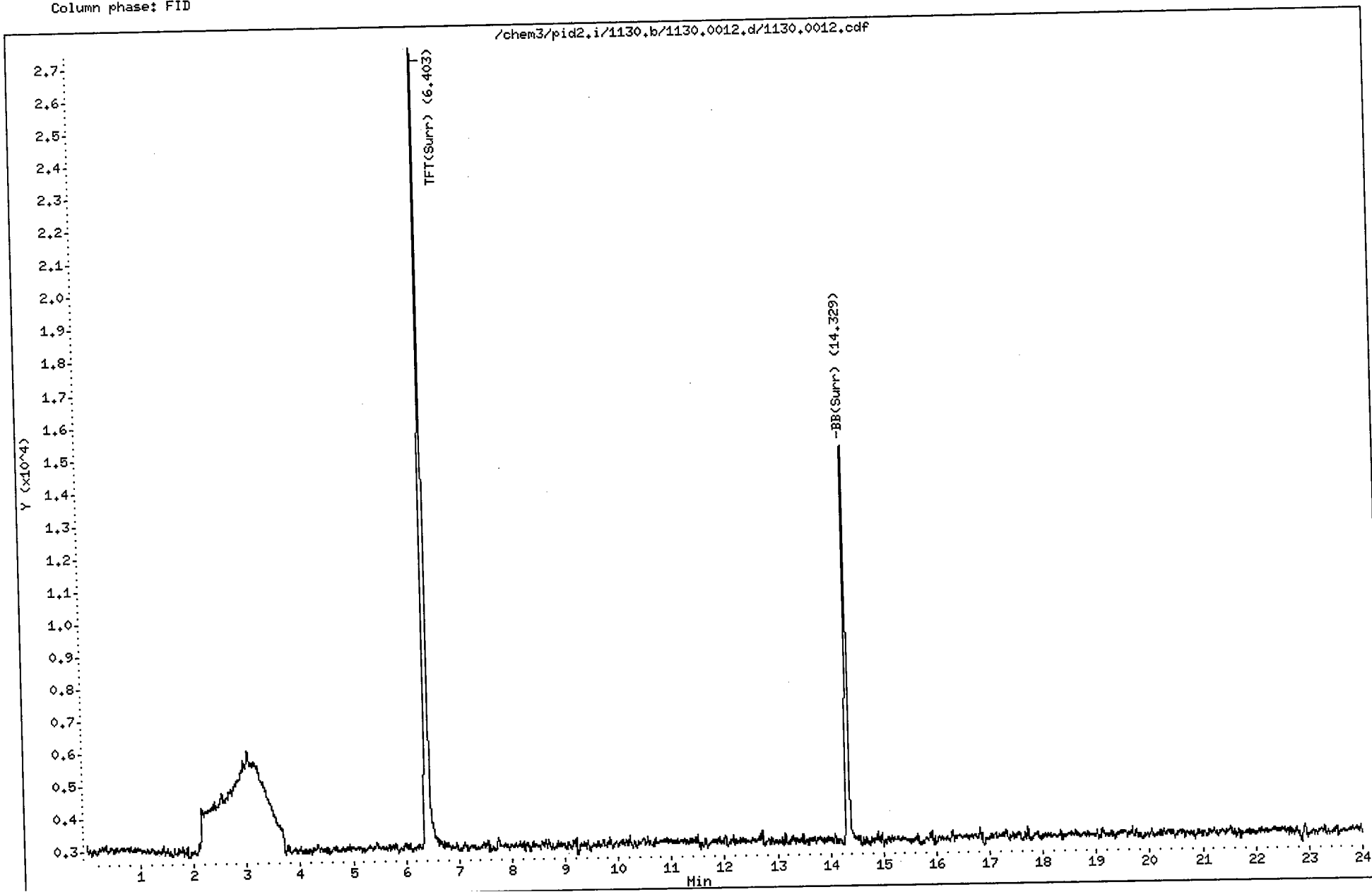
000191

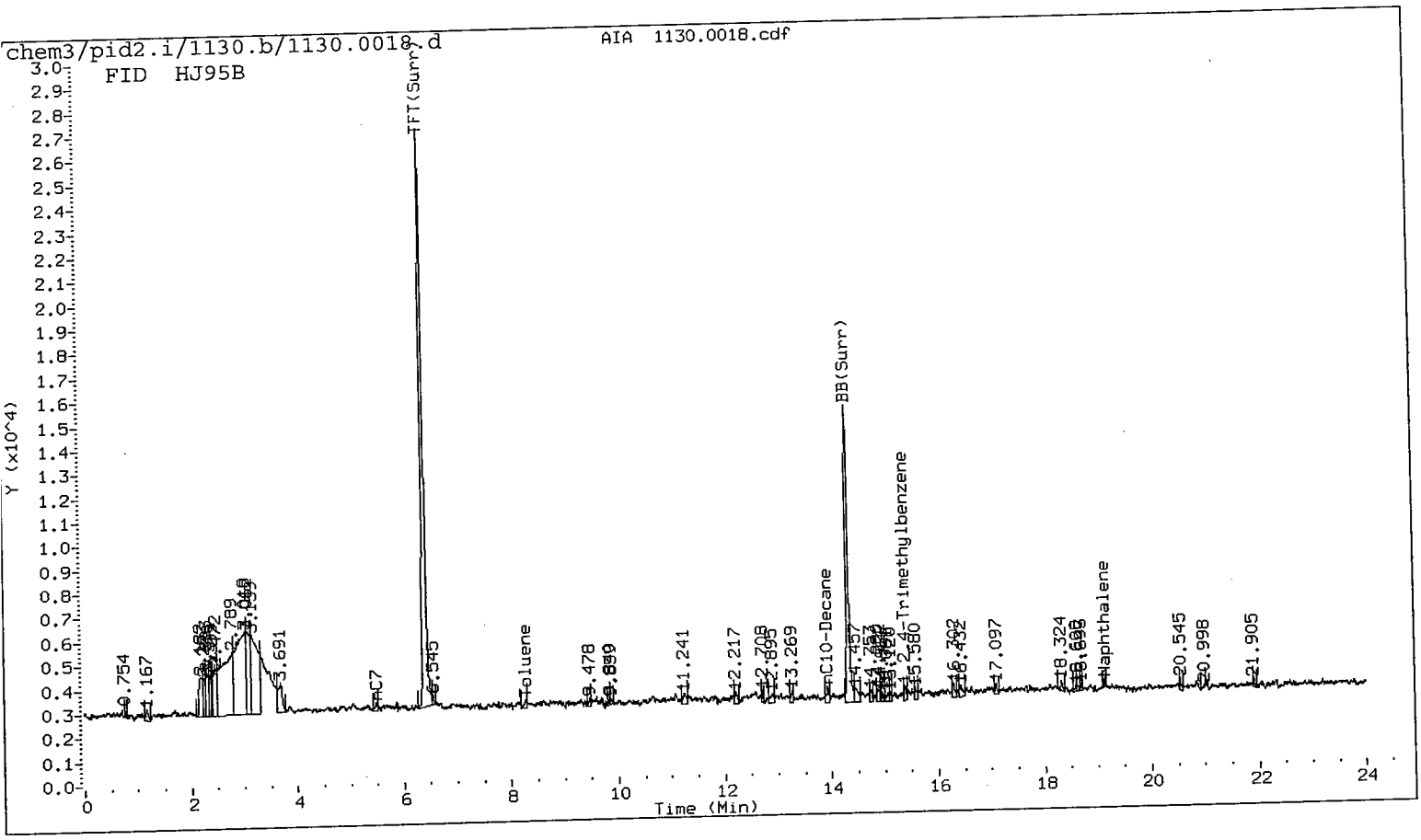
Data File: /chem3/pid2.i/1130.b/1130.0012.d
Date : 30-NOV-2004 17:03
Client ID: MW-111
Sample Info: HJ95A

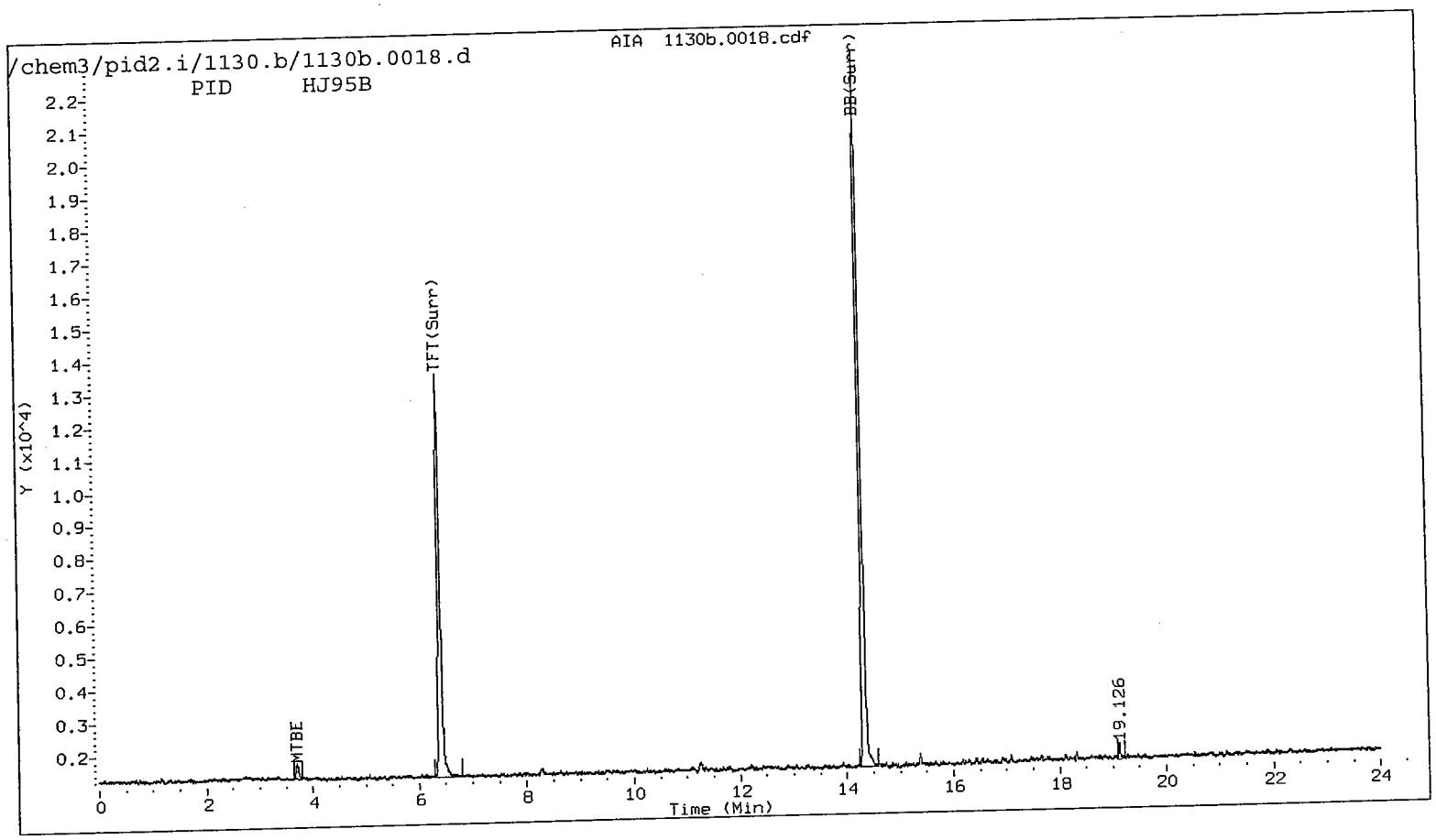
Instrument: pid2.i

Operator: PC
Column diameter: 2.00

Column phase: FID




chem3/pid2.i/1130.b/1130.0018.d
AIA 1130.0018.cdf
FID HJ95B
TFT(Surr)
BB(Surr)
Toluene
C10-Decane
1,2,4-Trimethylbenzene
Naphthalene
Y (x10^4)
Time (Min)


/chem3/pid2.i/1130.b/1130b.0018.d
AIA 1130b.0018.cdf
PID HJ95B
MTBE
TFT(Surr)
BB(Surr)
19.126
Y (x10^4)
Time (Min)

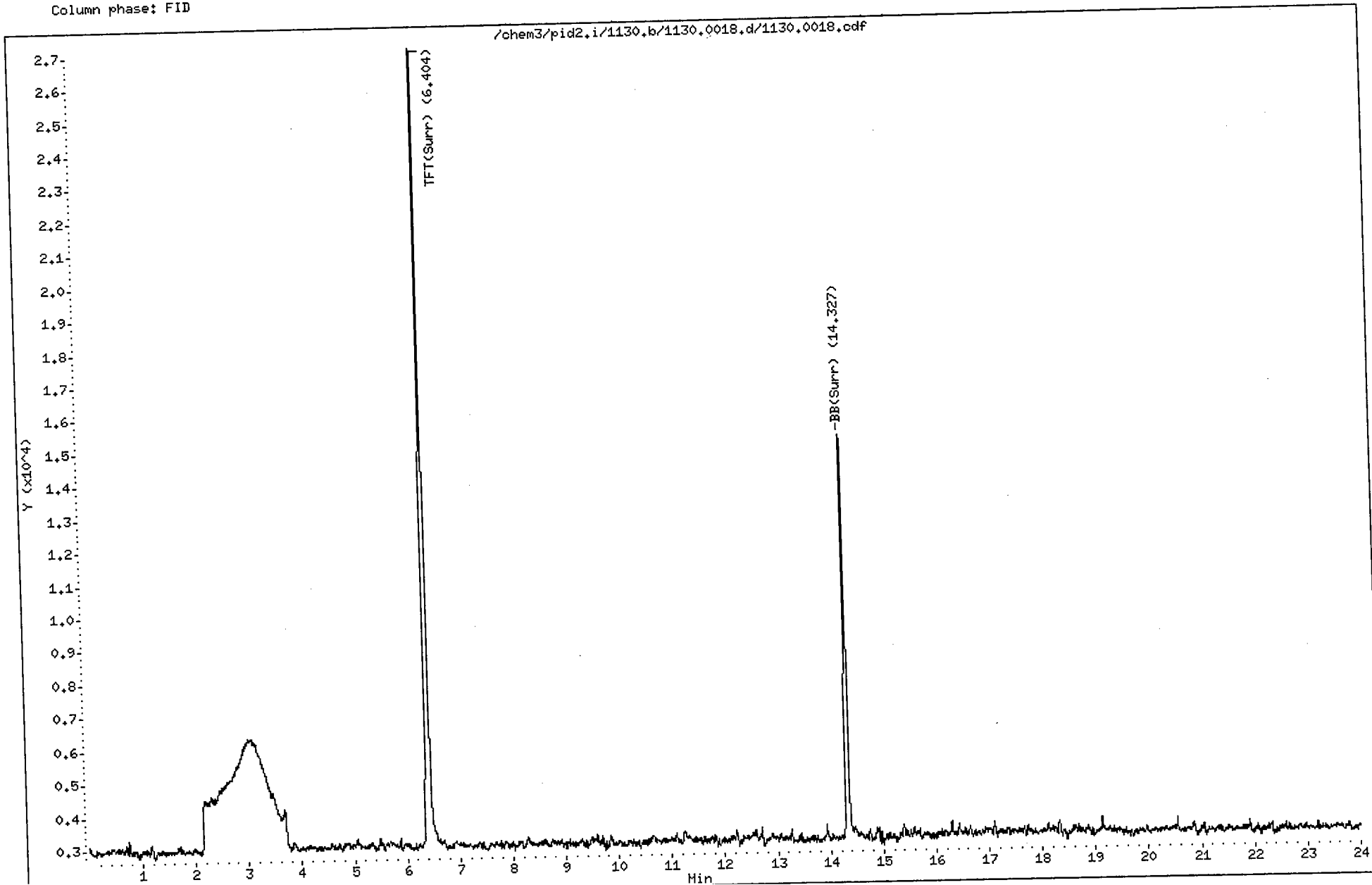
000193

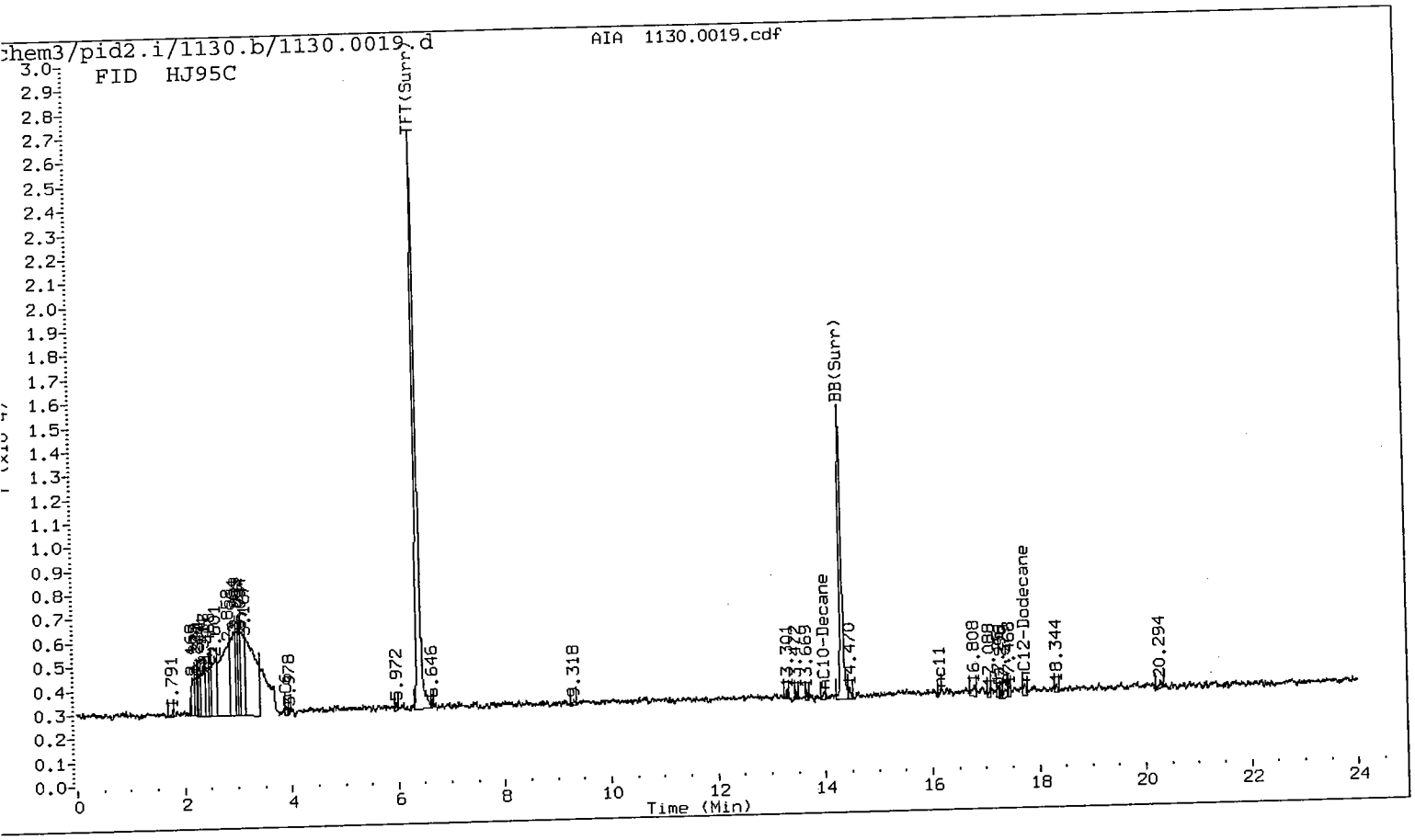
Data File: /chem3/pid2.i/1130.b/1130.0018.d
Date : 30-NOV-2004 19:48
Client ID: MW-101
Sample Info: HJ95B

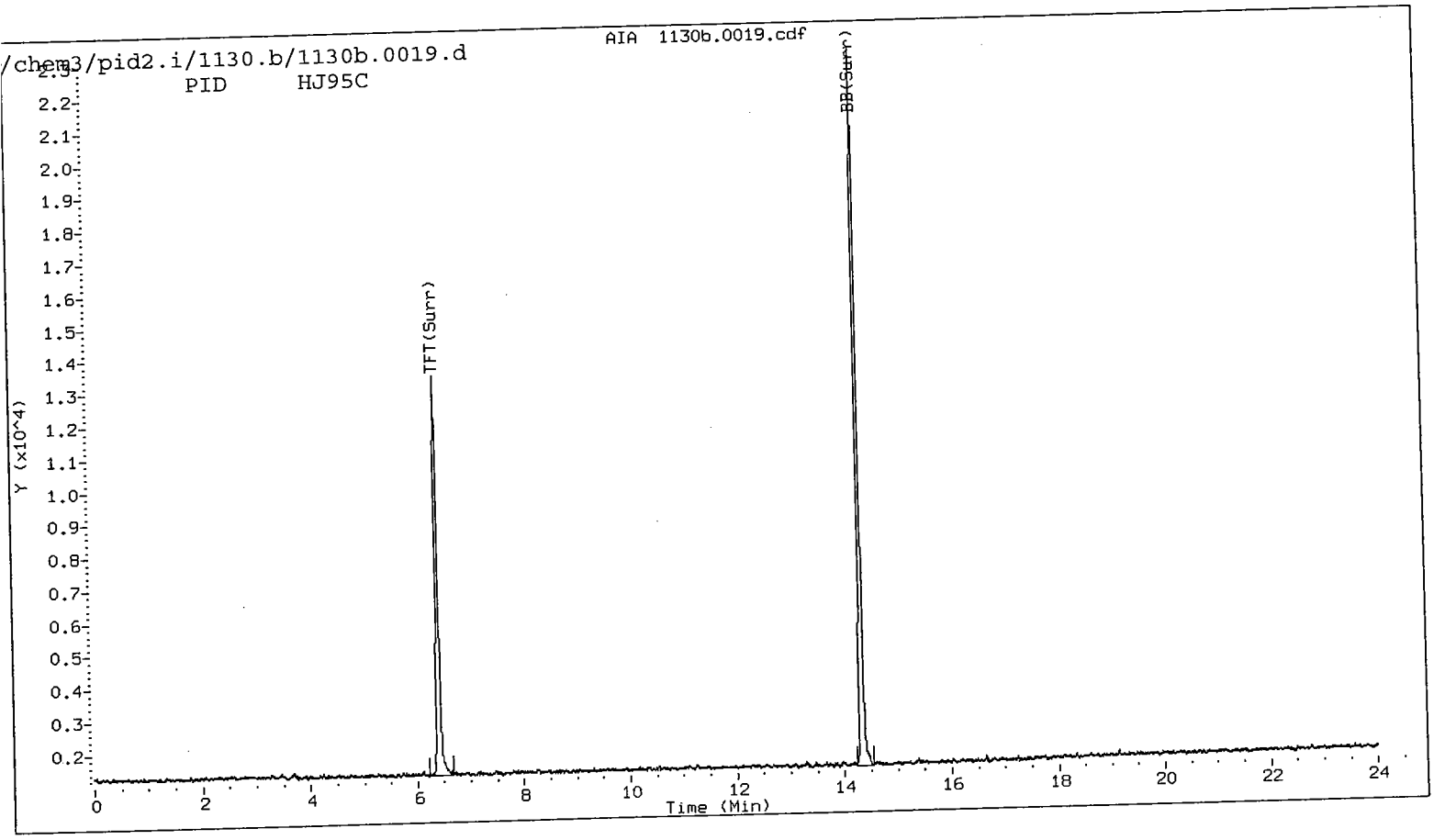
Instrument: pid2.i

Operator: PC
Column diameter: 2.00

Column phase: FID




/chem3/pid2.i/1130.b/1130.0019.d
AIA 1130.0019.cdf
FID HJ95C
TFT(Surr)
BB(Surr)
nC10-Decane
nC12-Dodecane
nC11
5.972
6.646
9.318
13.301
13.669
14.470
16.808
18.344
20.294
Time (Min)


/chem3/pid2.i/1130.b/1130b.0019.d
AIA 1130b.0019.cdf
PID HJ95C
TFT(Surr)
BB(Surr)
Y (x10^4)
Time (Min)

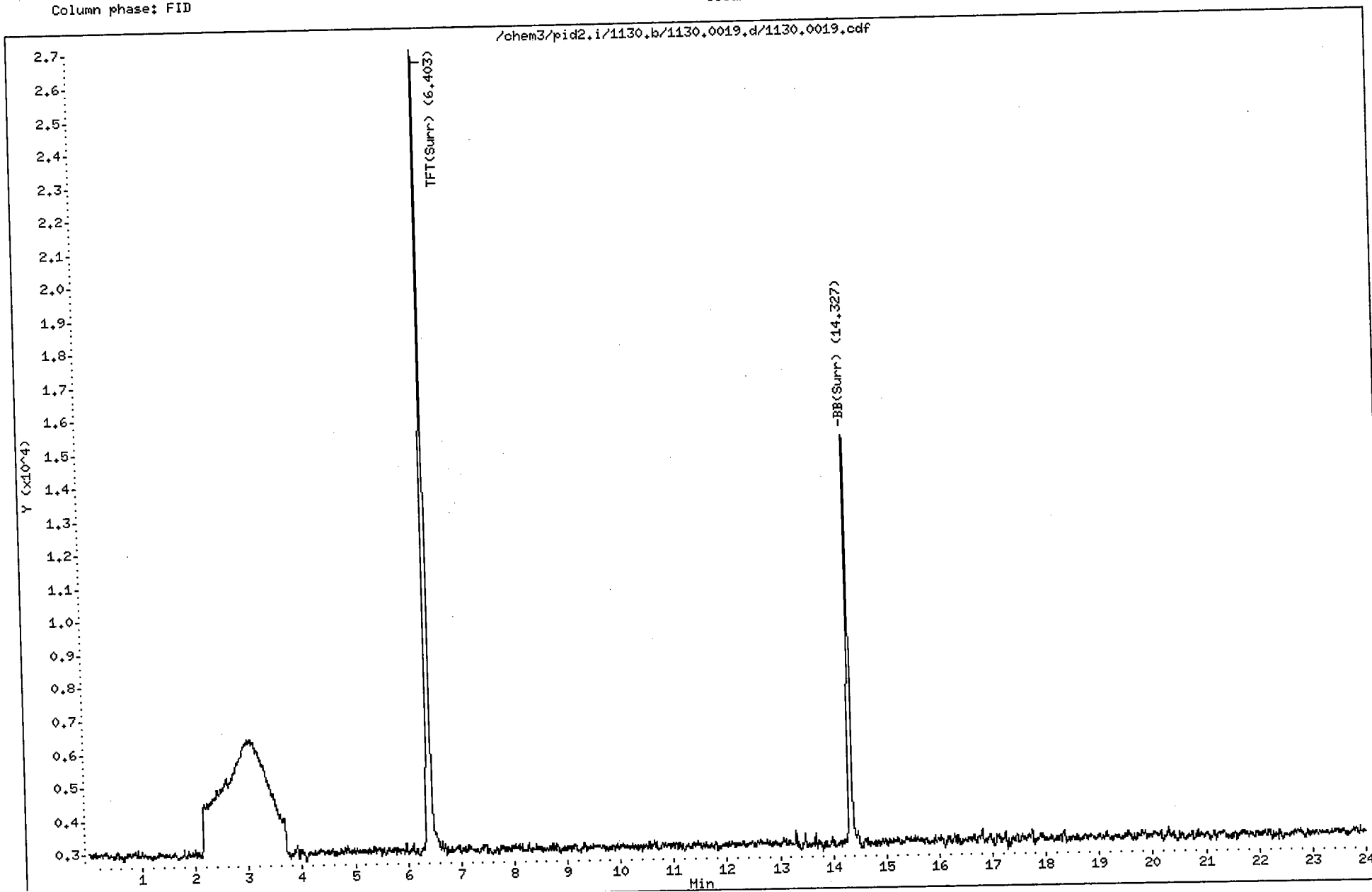
000195

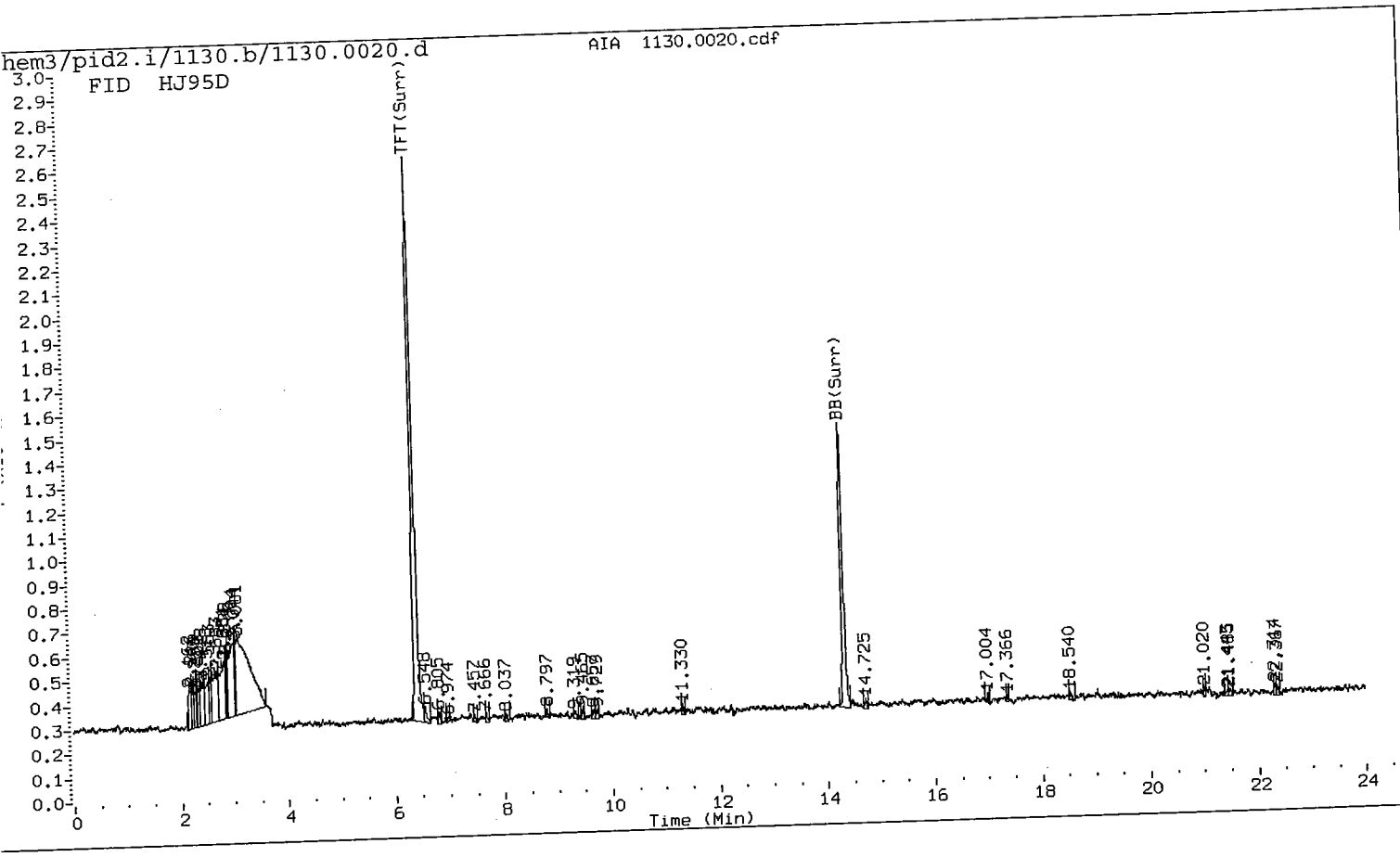
Data File: /chem3/pid2.i/1130.b/1130.0019.d
Date : 30-NOV-2004 20:15
Client ID: MW-105
Sample Info: HJ95C

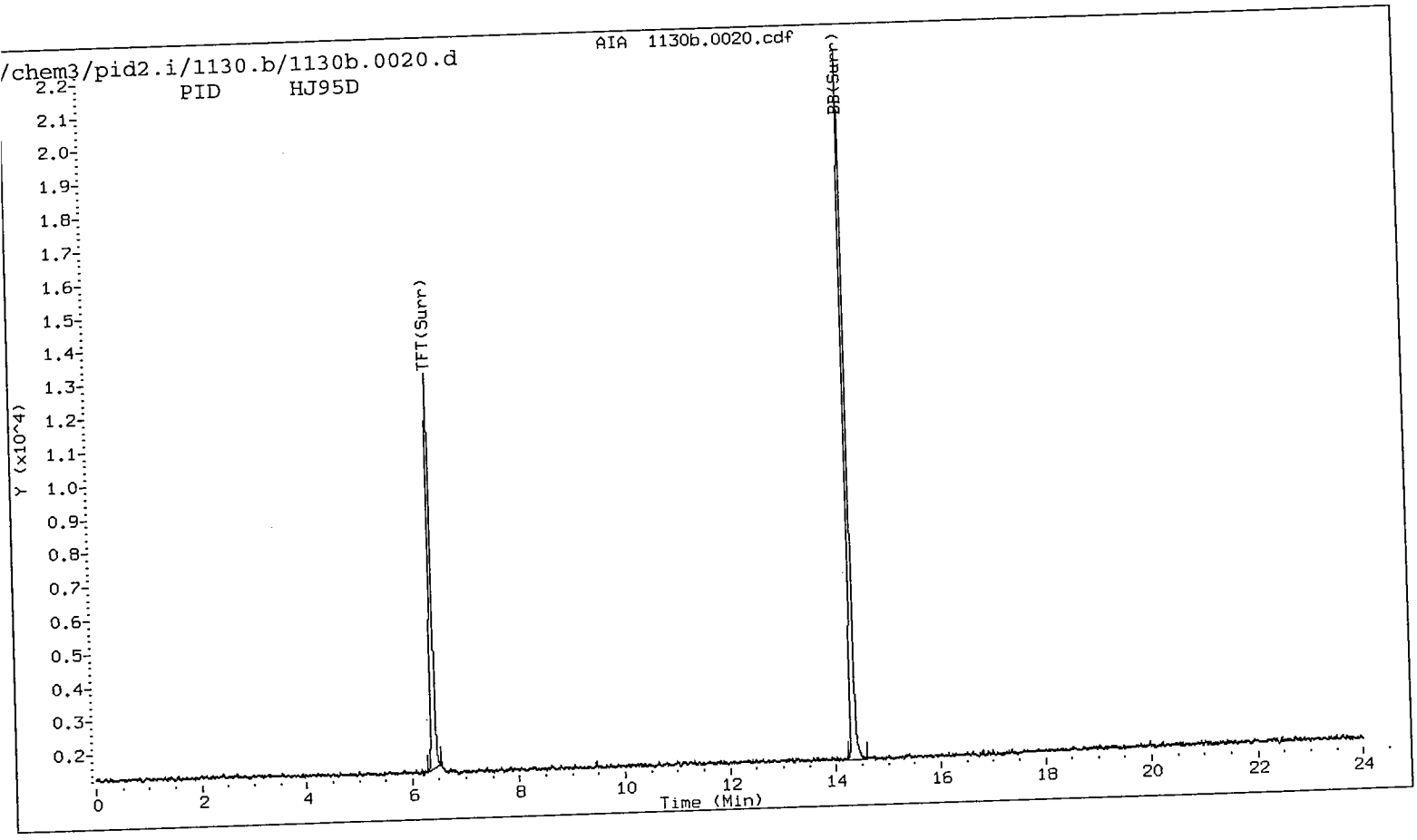
Instrument: pid2.i

Operator: PC
Column diameter: 2.00

Column phase: FID




hem3/pid2.i/1130.b/1130.0020.d
FID HJ95D
AIA 1130.0020.cdf
TFT(Surr)
BB(Surr)
Time (Min)


/chem3/pid2.i/1130.b/1130b.0020.d
PID HJ95D
AIA 1130b.0020.cdf
TFT(Surr)
BB(Surr)
Y (x10^4)
Time (Min)

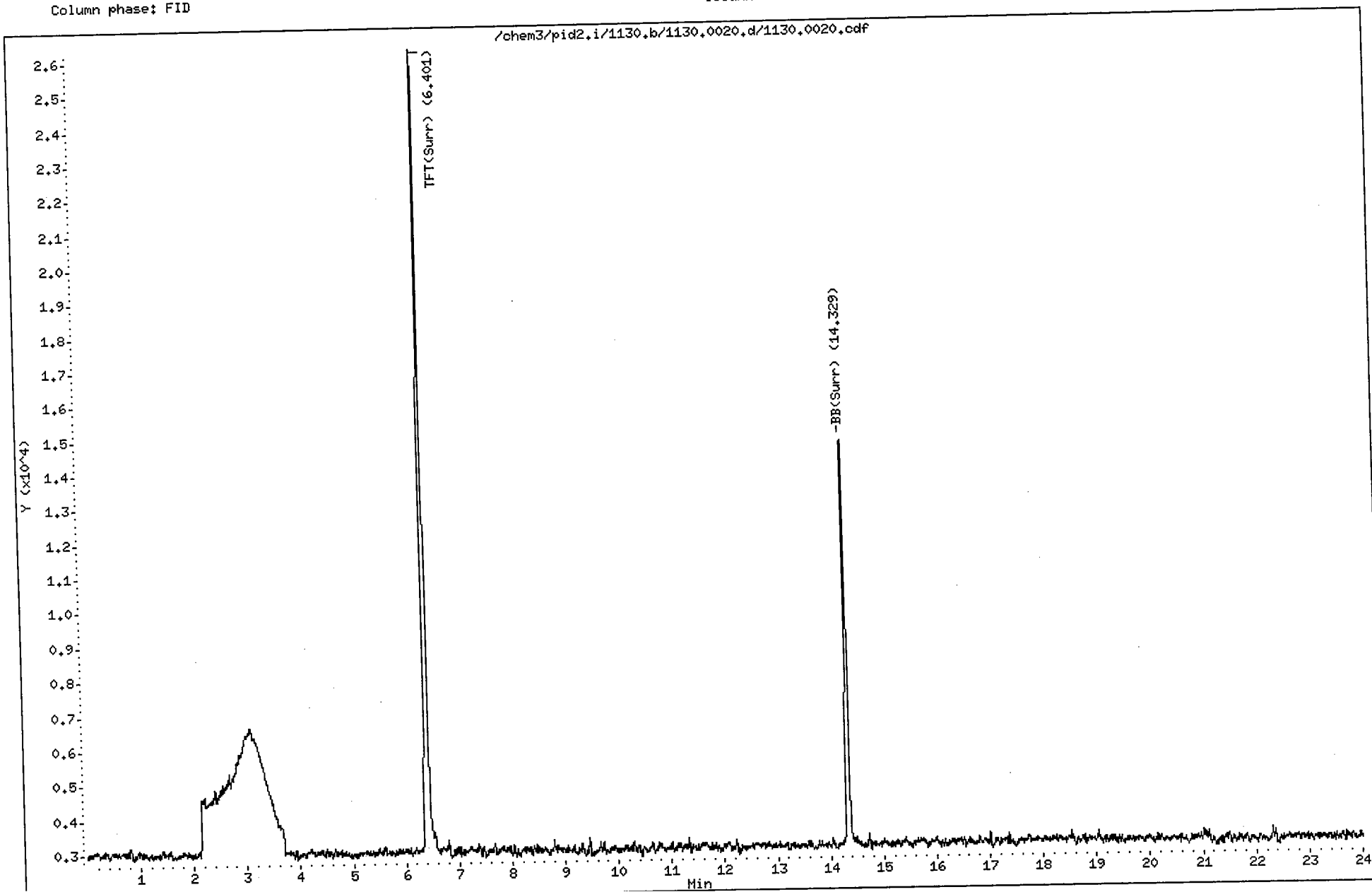
000197

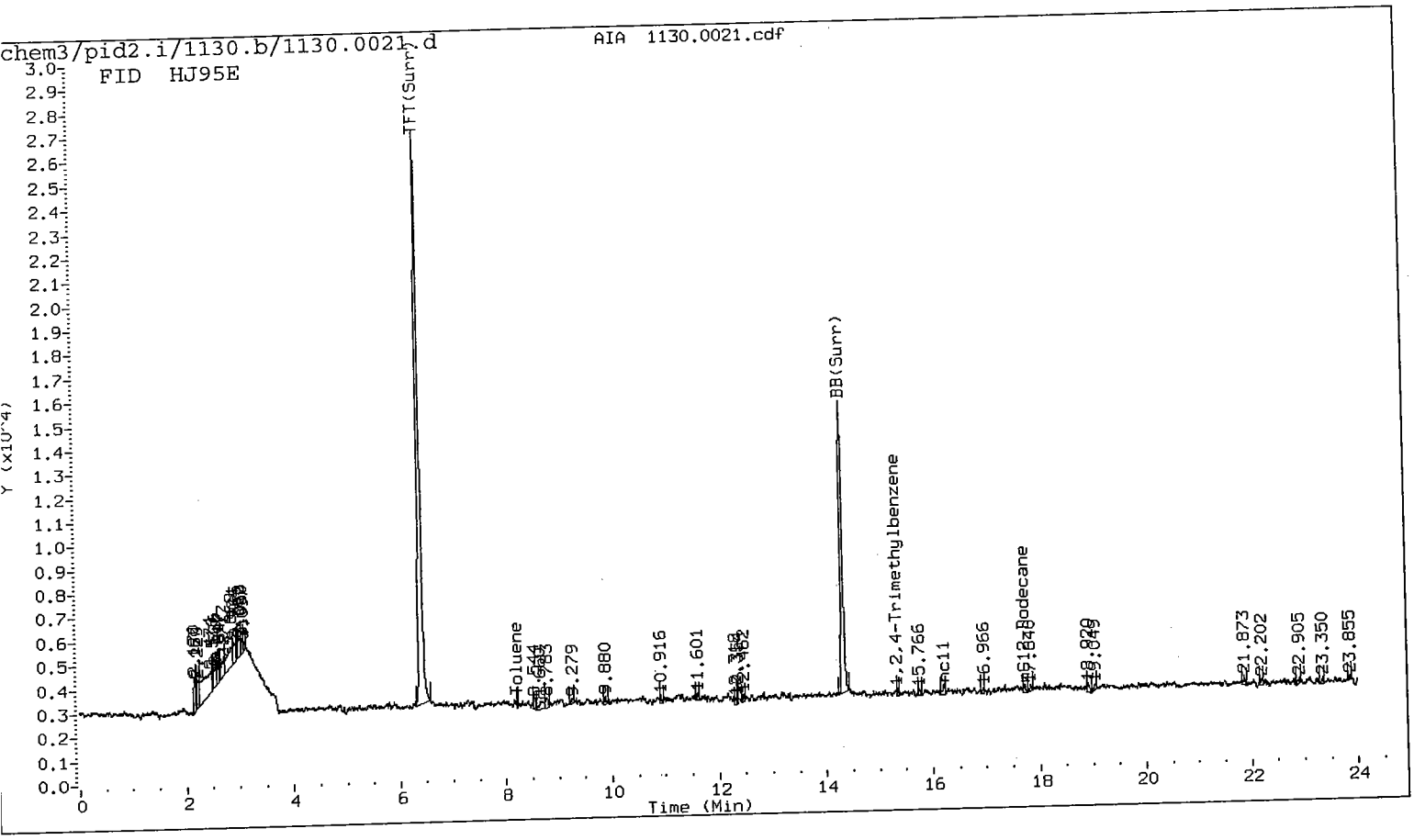
Data File: /chem3/pid2.i/1130.b/1130.0020.d
Date : 30-NOV-2004 20:42
Client ID: MW-106
Sample Info: HJ95D

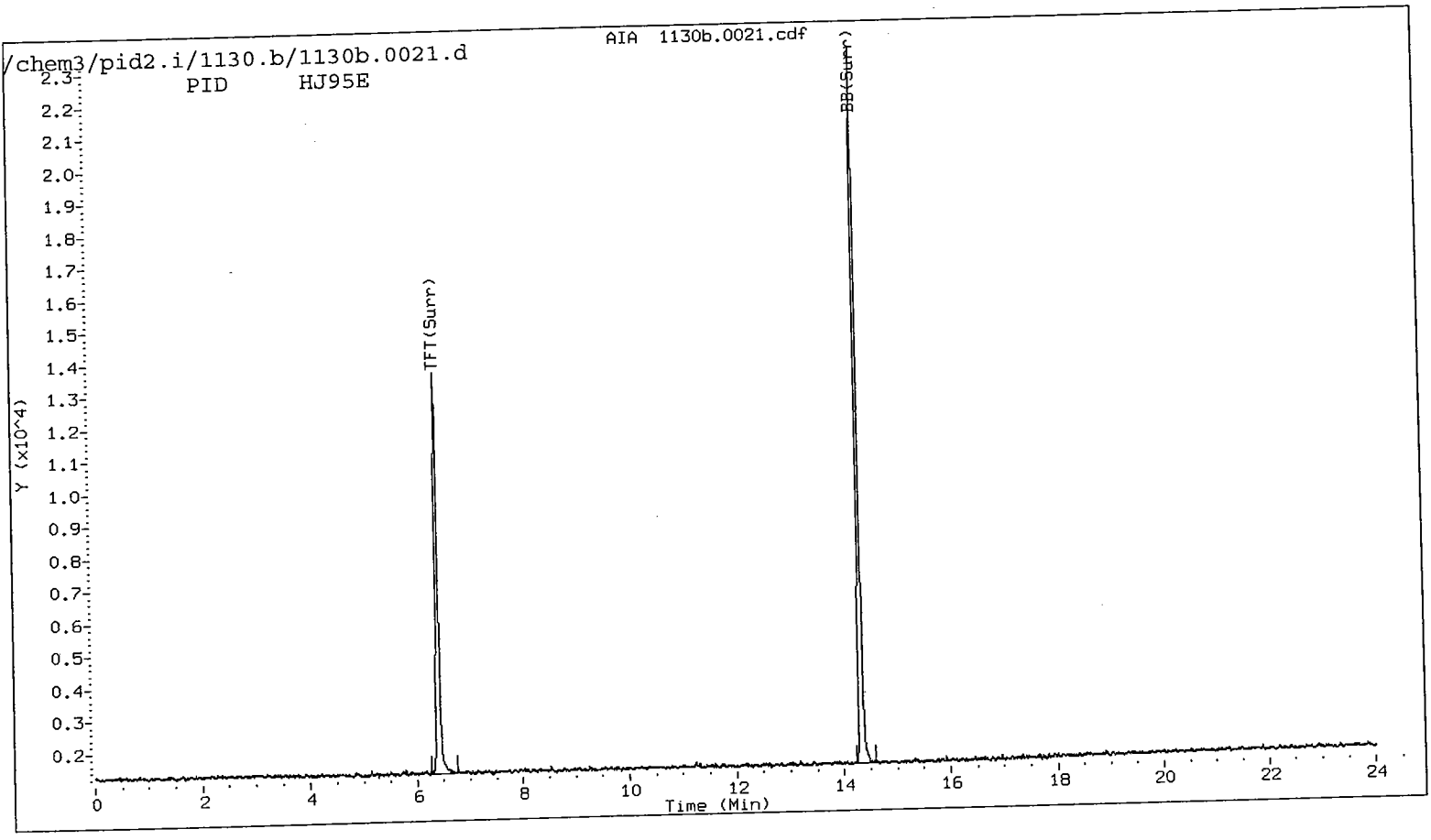
Instrument: pid2.i

Operator: PC
Column diameter: 2.00

Column phase: FID




/chem3/pid2.i/1130.b/1130.0021.d
FID HJ95E
AIA 1130.0021.cdf
TFT(Surr)
Toluene
BB(Surr)
1,2,4-Trimethylbenzene
Undecane
Dodecane
Y (x10^4)
Time (Min)


/chem3/pid2.i/1130.b/1130b.0021.d
PID HJ95E
AIA 1130b.0021.cdf
TFT(Surr)
BB(Surr)
Y (x10^4)
Time (Min)

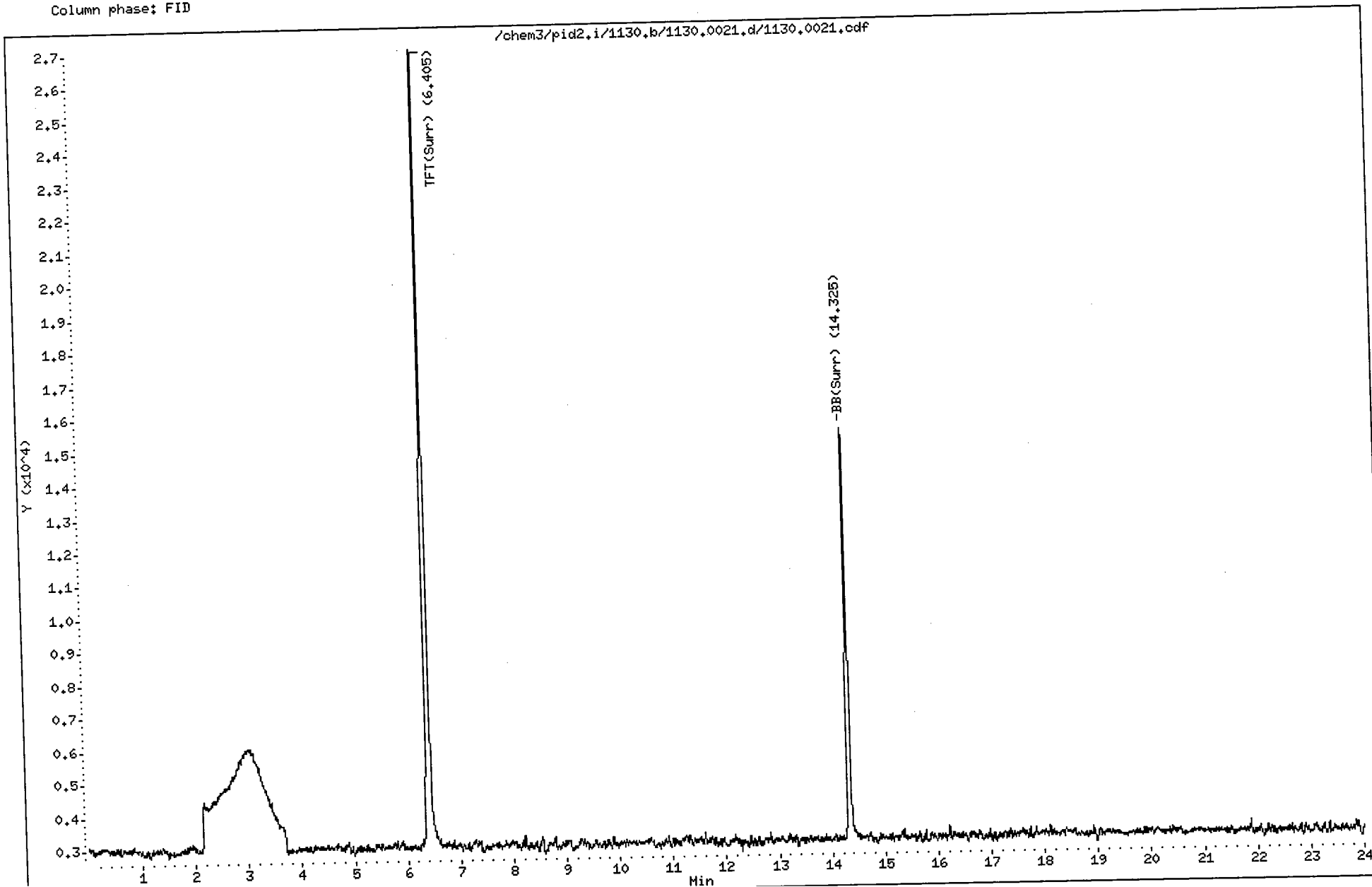
000199

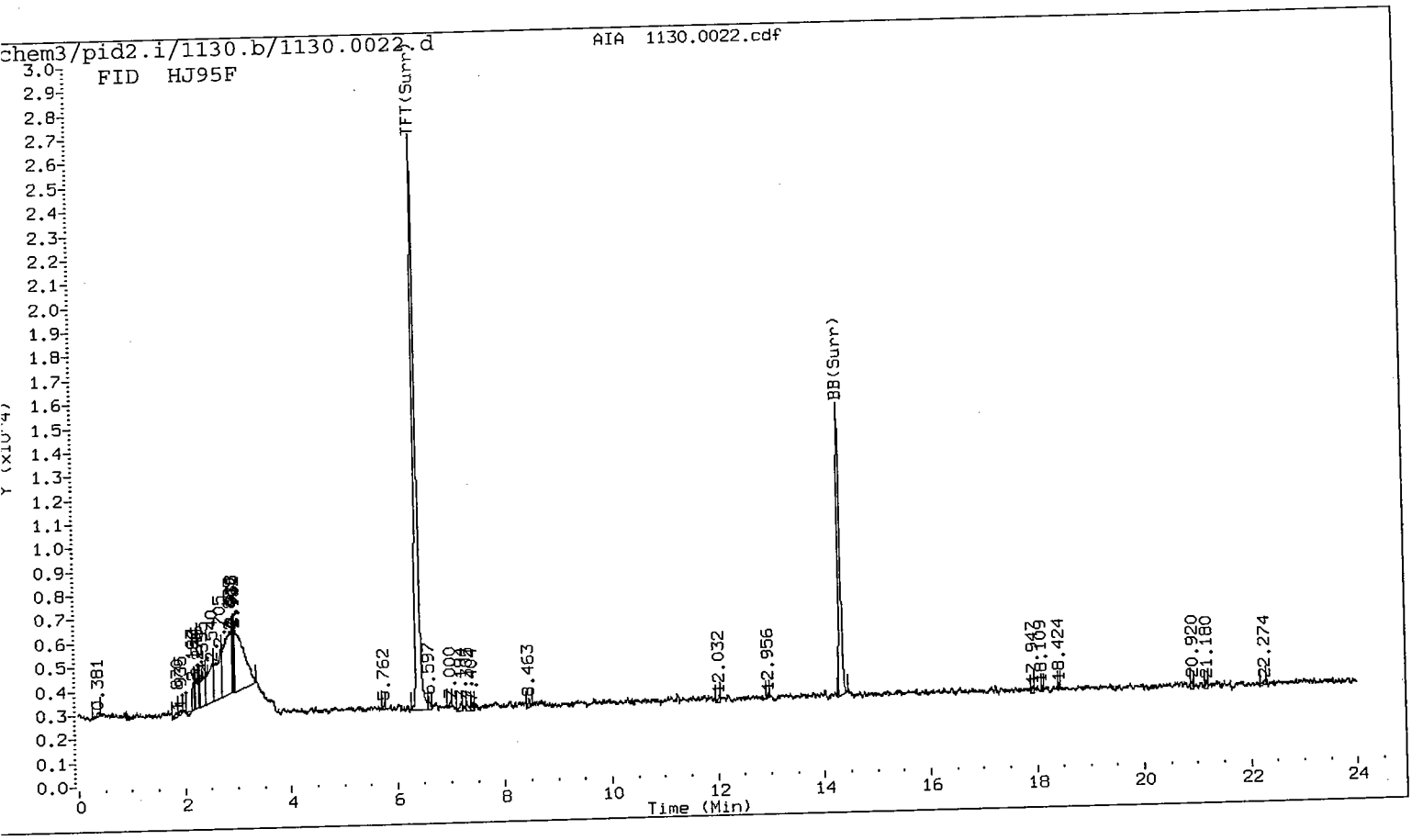
Data File: /chem3/pid2.i/1130.b/1130.0021.d
Date : 30-NOV-2004 21:10
Client ID: MW-107
Sample Info: HJ95E

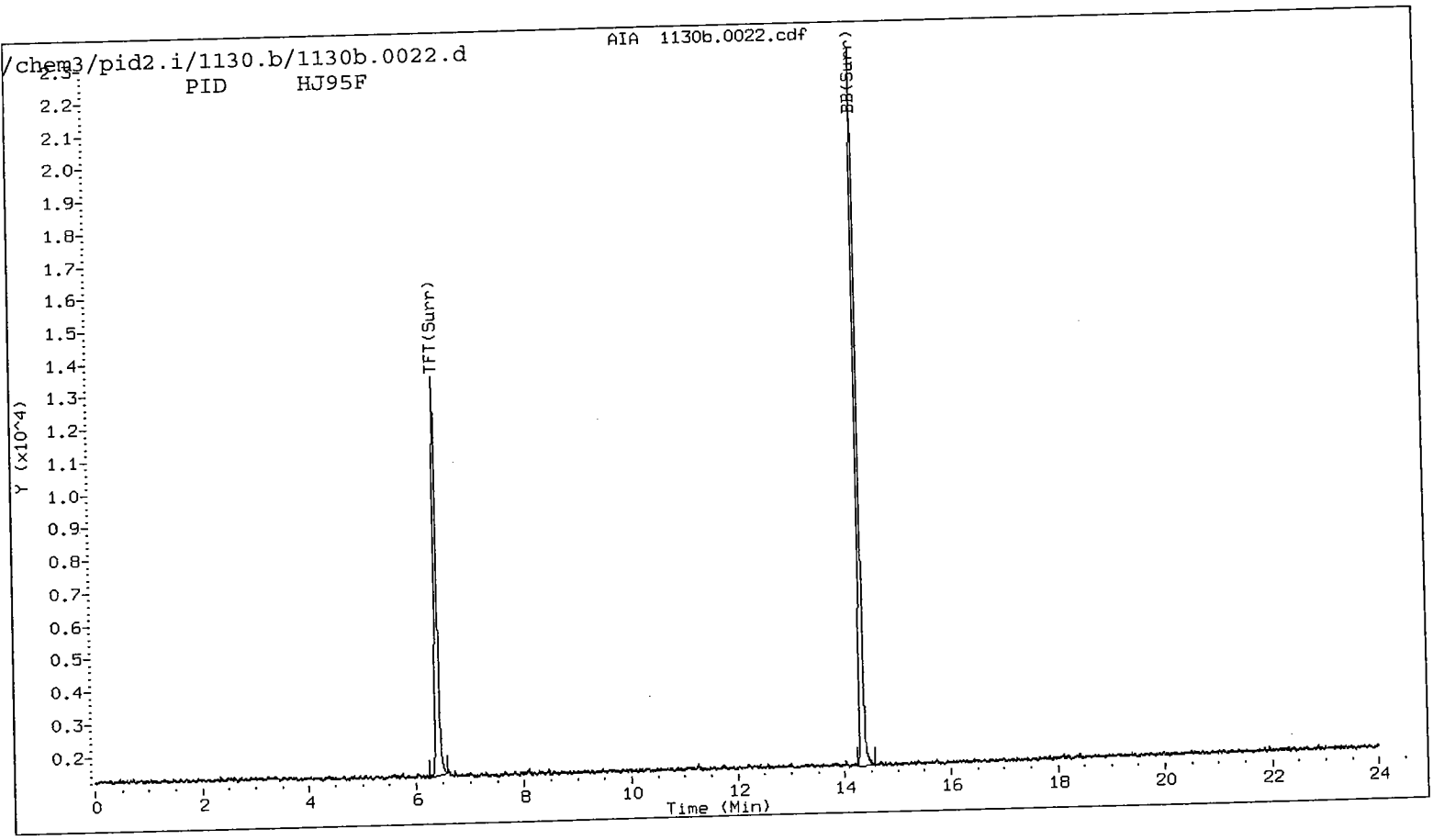
Instrument: pid2.i

Operator: PC
Column diameter: 2.00

Column phase: FID




chem3/pid2.i/1130.b/1130.0022.d
FID HJ95F
AIA 1130.0022.cdf
TFT(Surr)
BB(Surr)
Y (x10^4)
Time (Min)


/chem3/pid2.i/1130.b/1130b.0022.d
PID HJ95F
AIA 1130b.0022.cdf
TFT(Surr)
BB(Surr)
Y (x10^4)
Time (Min)

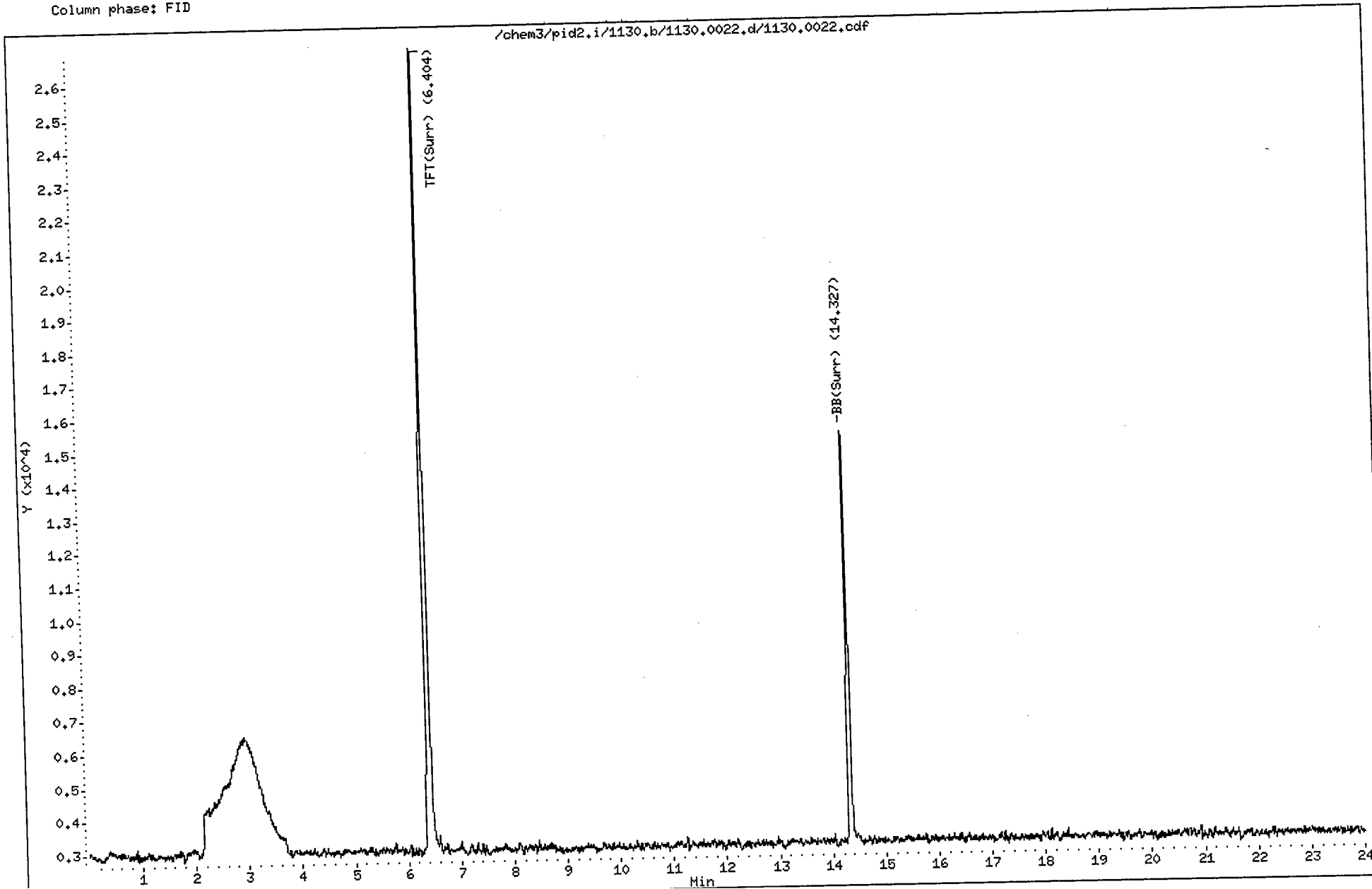
000201

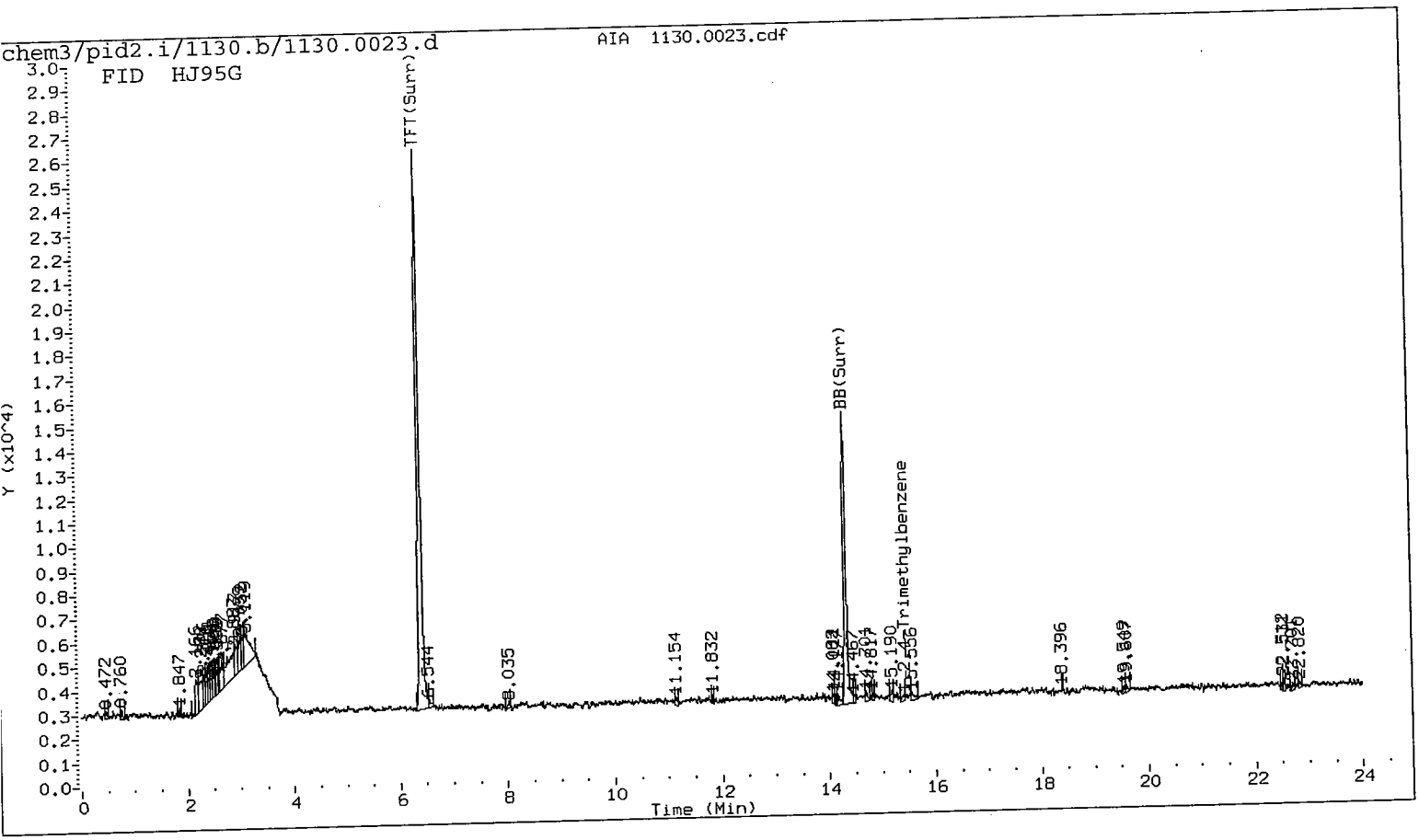
Data File: /chem3/pid2.i/1130.b/1130.0022.d
Date : 30-NOV-2004 21:37
Client ID: MW-202
Sample Info: HJ95F

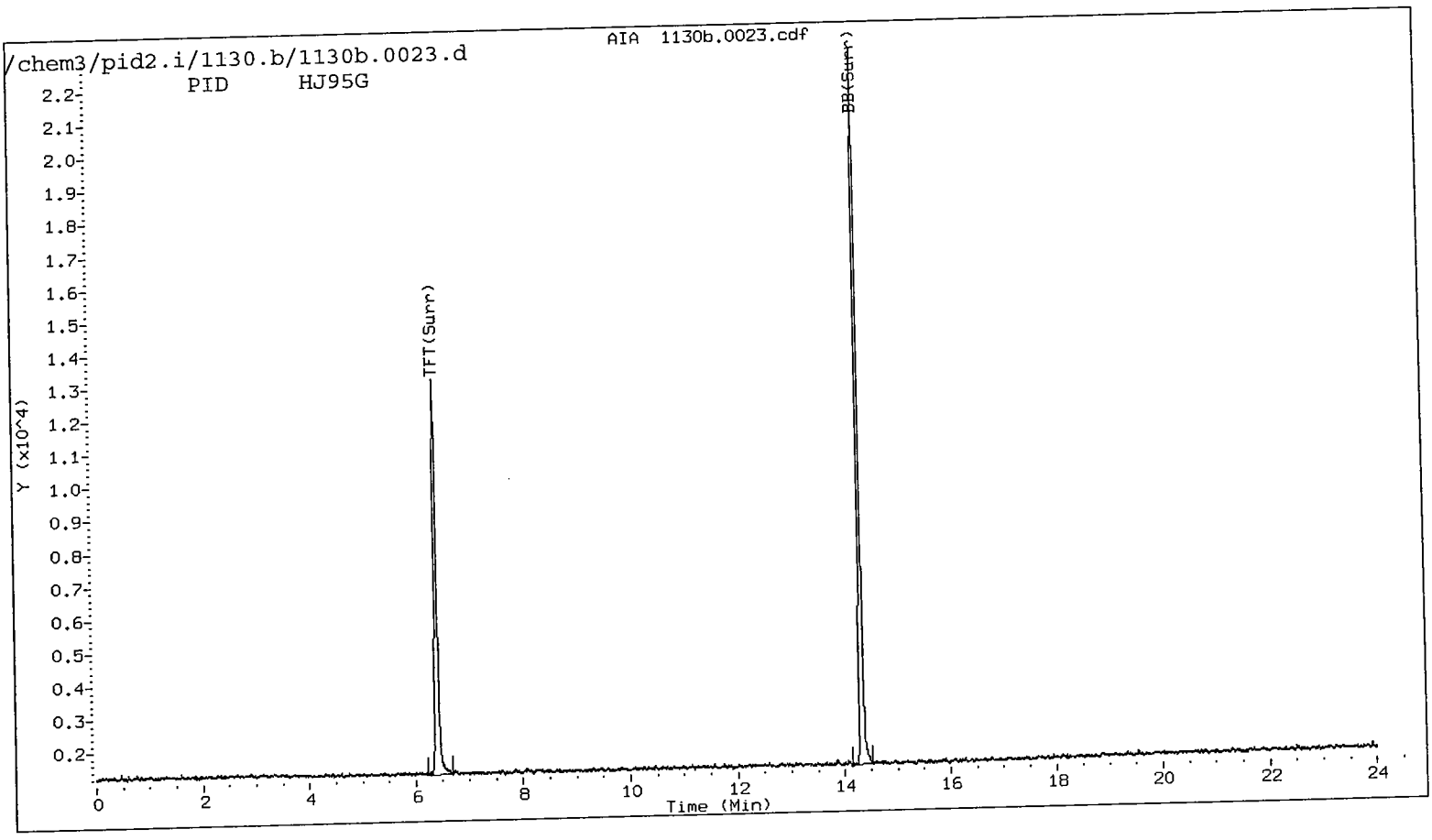
Instrument: pid2.i

Operator: PC
Column diameter: 2.00

Column phase: FID




chem3/pid2.i/1130.b/1130.0023.d
AIA 1130.0023.cdf
FID HJ95G
TFT(Surr)
BB(Surr)
Trimethylbenzene
Y (x10^4)
Time (Min)


/chem3/pid2.i/1130.b/1130b.0023.d
AIA 1130b.0023.cdf
PID HJ95G
TFT(Surr)
BB(Surr)
Y (x10^4)
Time (Min)

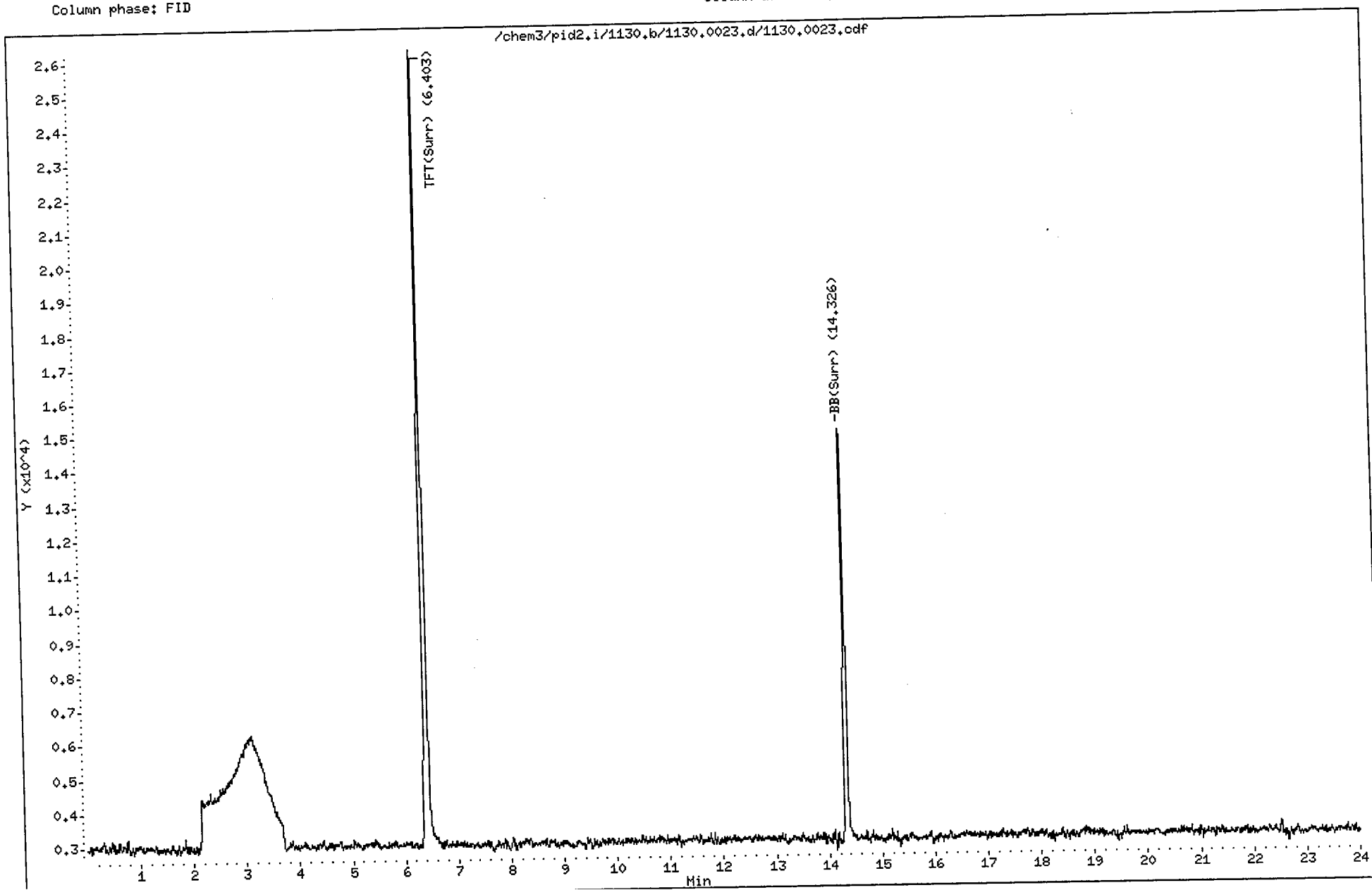
000203

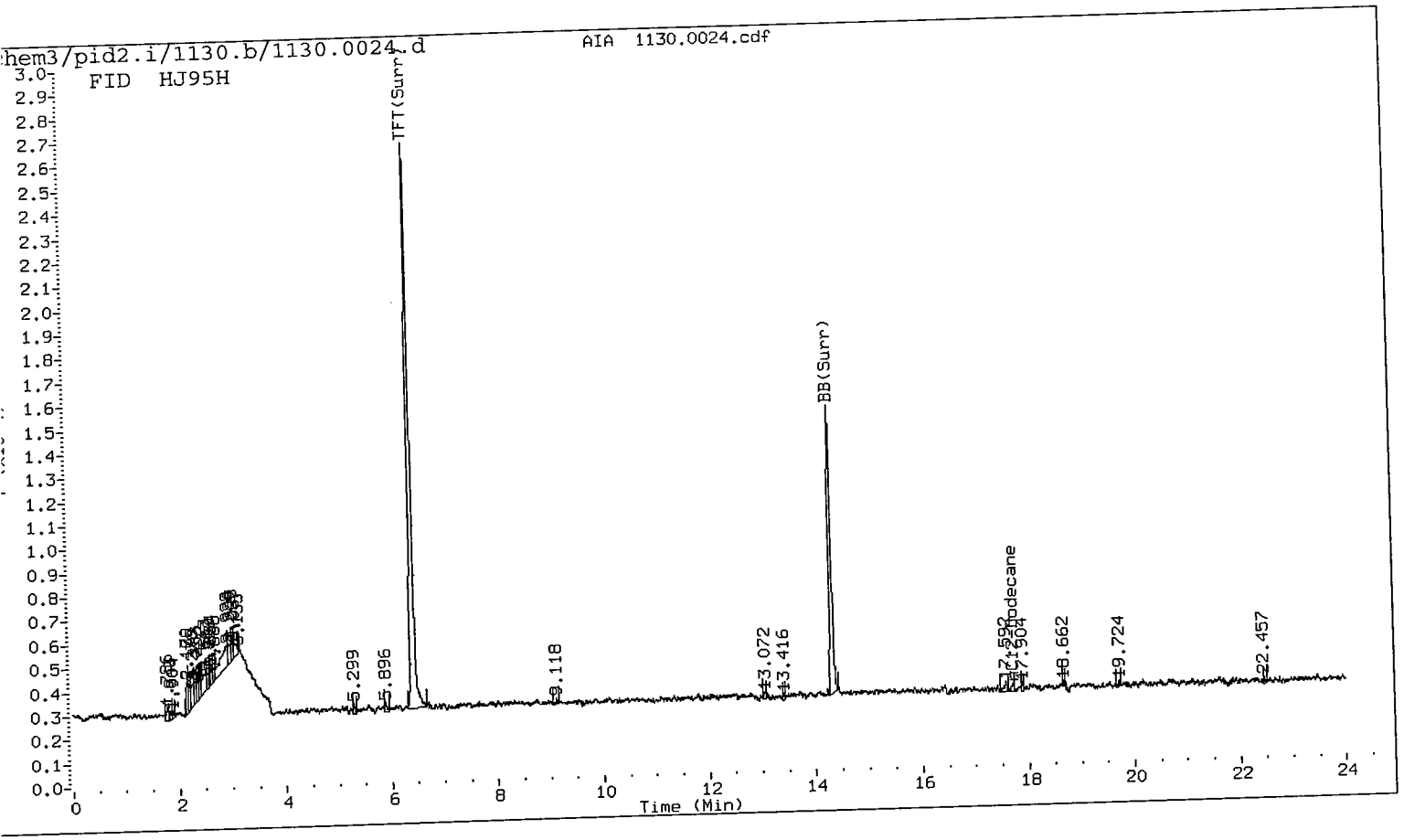
Data File: /chem3/pid2.i/1130.b/1130.0023.d
Date : 30-NOV-2004 22:04
Client ID: MW-102
Sample Info: HJ95G

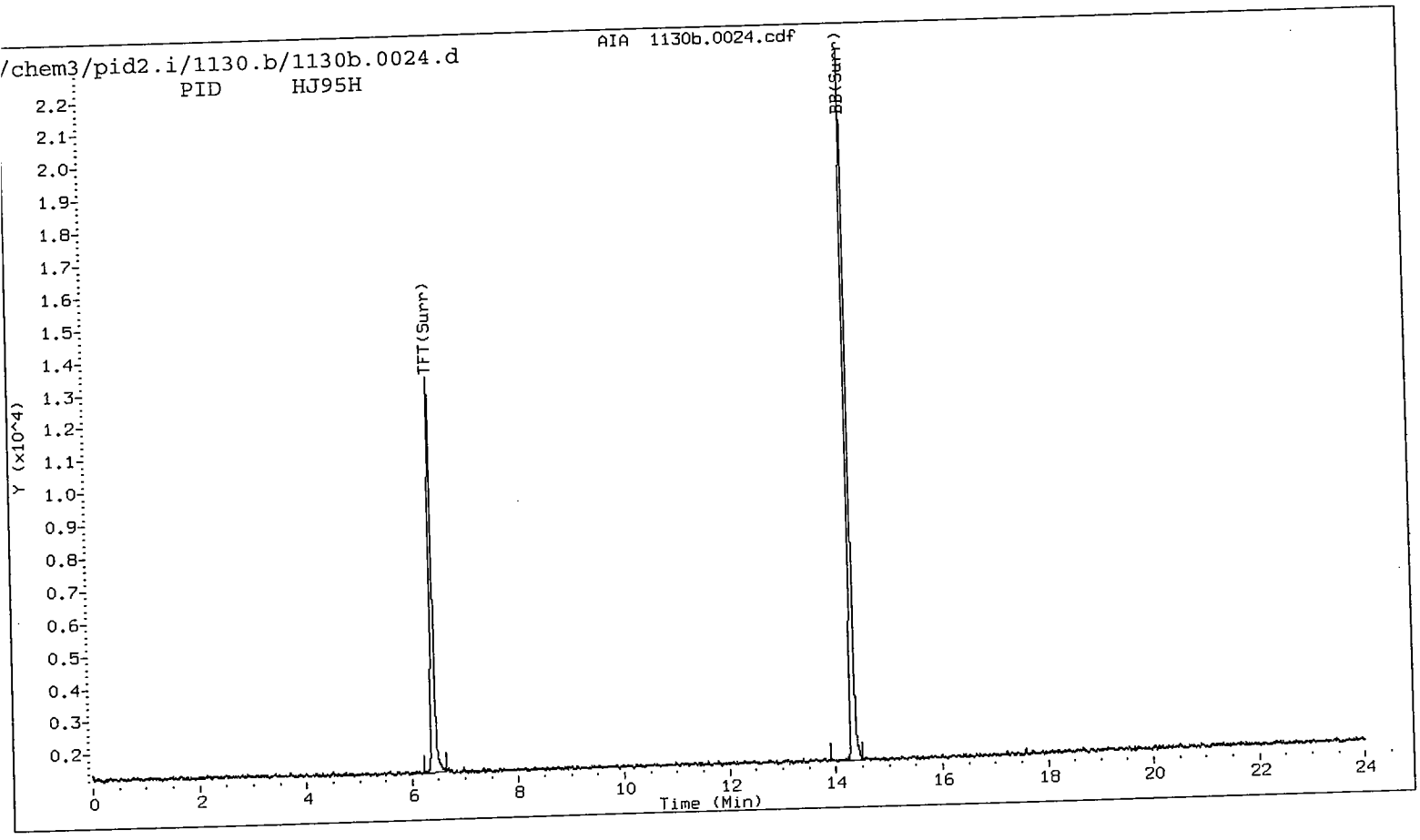
Instrument: pid2.i

Operator: PC
Column diameter: 2.00

Column phase: FID




AIA 1130.0024.cdf
FID HJ95H
TFT(Surr)
BB(Surr)
5.299
5.896
9.118
13.072
13.416
17.592
17.904
18.662
19.724
22.457
Time (Min)


AIA 1130b.0024.cdf
PID HJ95H
TFT(Surr)
BB(Surr)
Y (x10^4)
Time (Min)

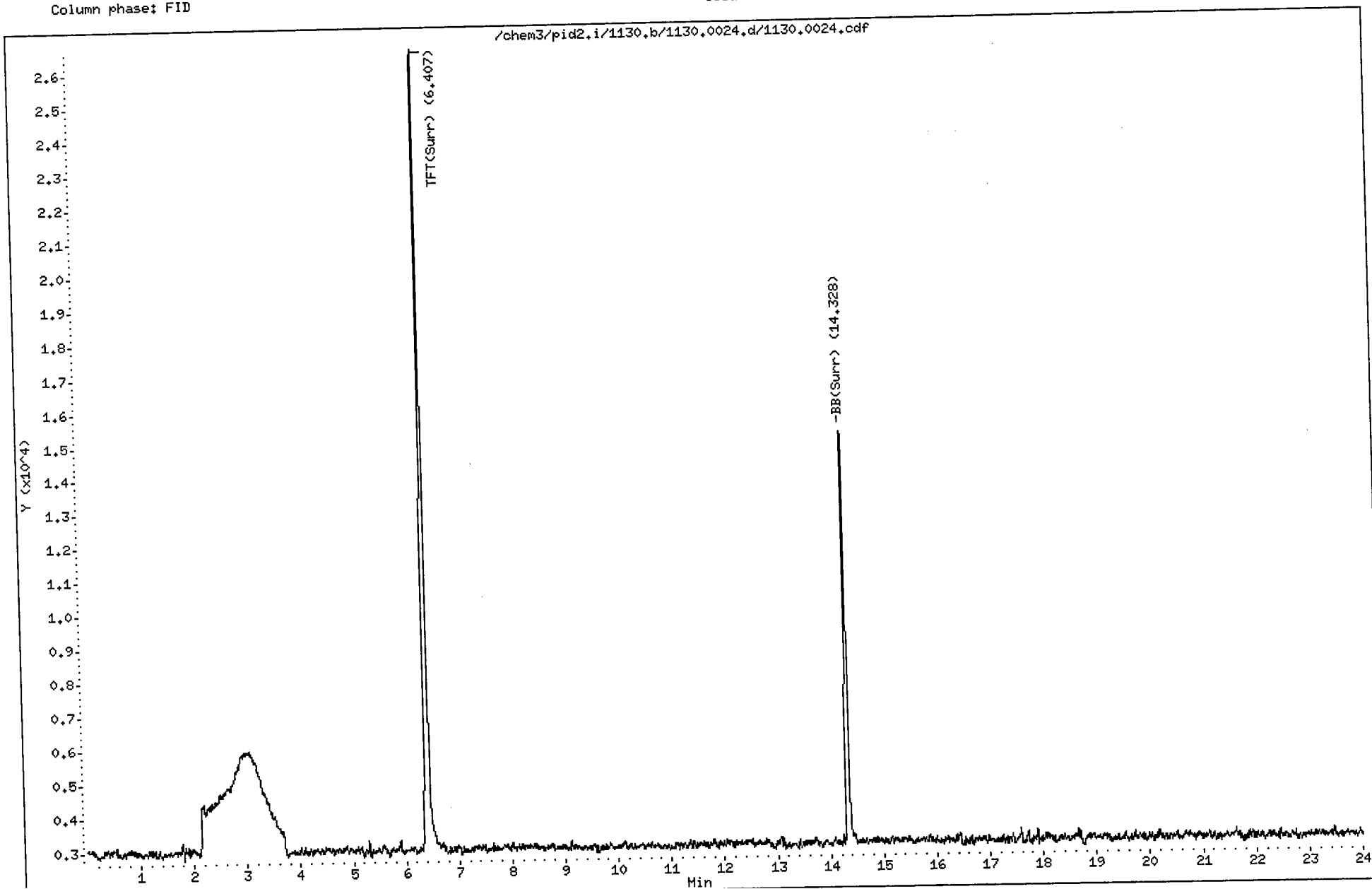
000205

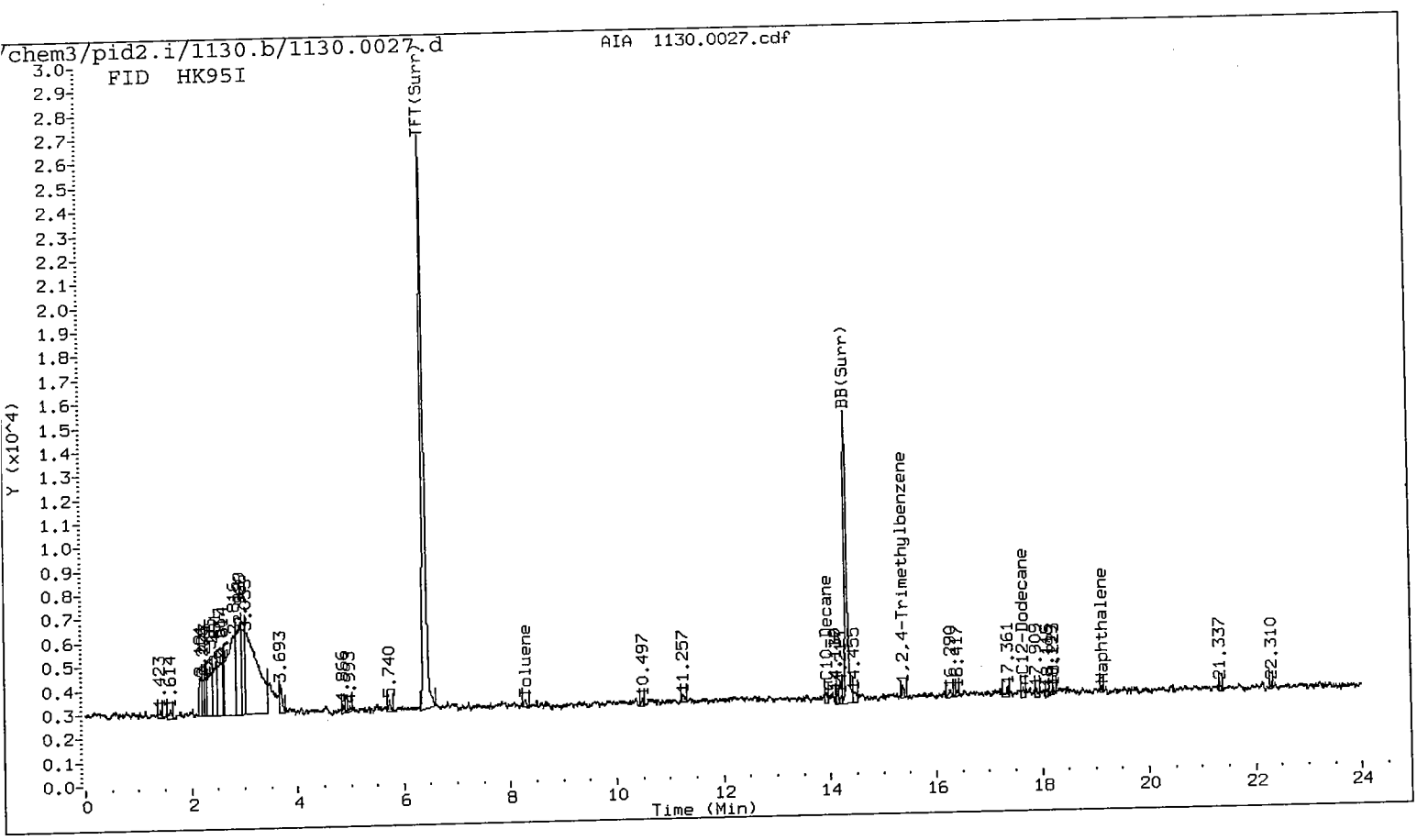
Data File: /chem3/pid2.i/1130.b/1130.0024.d
Date : 30-NOV-2004 22:32
Client ID: MW-104
Sample Info: HJ95H

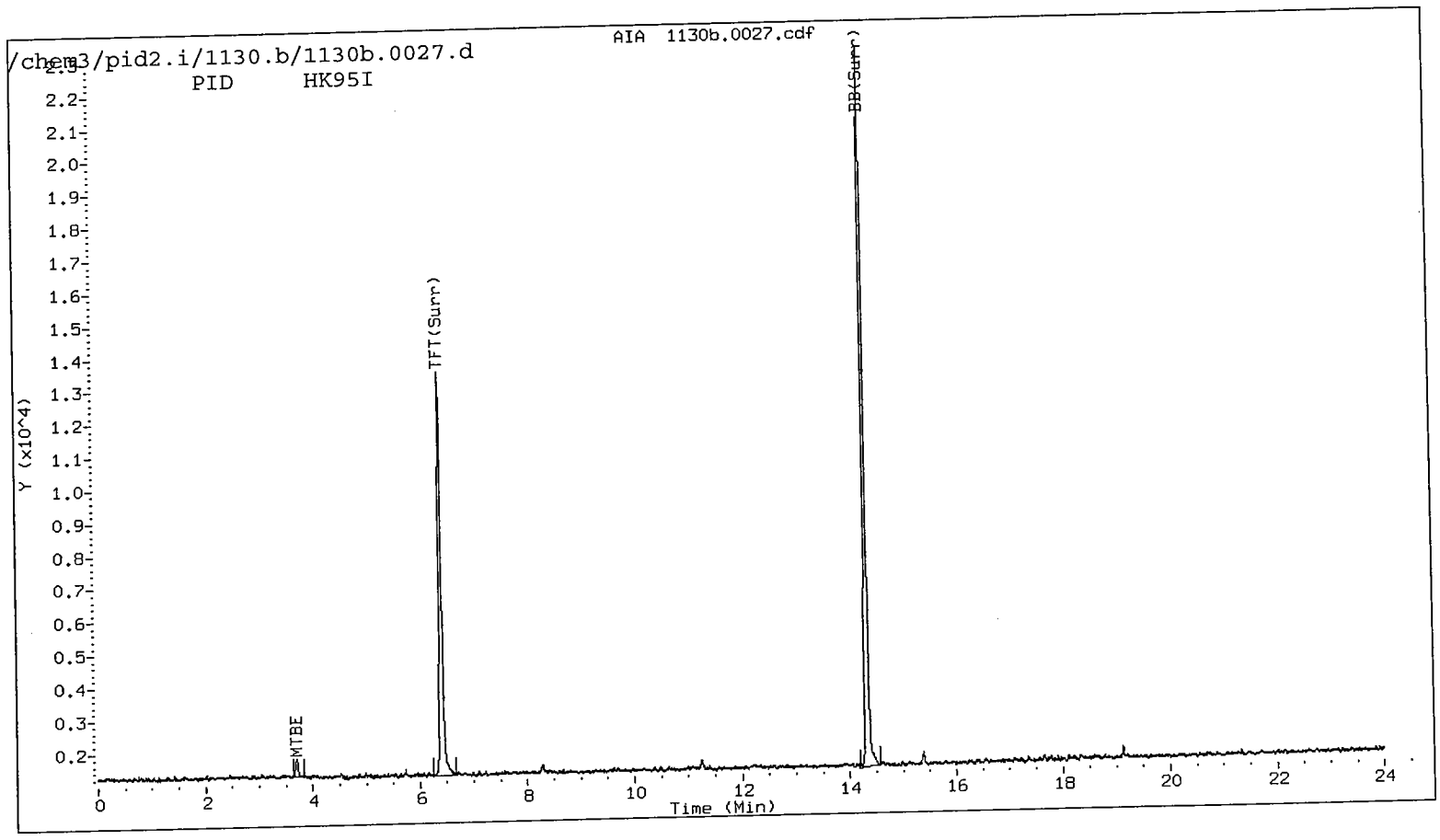
Instrument: pid2.i

Operator: PC
Column diameter: 2.00

Column phase: FID




/chem3/pid2.i/1130.b/1130.0027.d
FID HK95I
AIA 1130.0027.cdf
TFT(Surr)
BB(Surr)
Toluene
1,2,4-Trimethylbenzene
Naphthalene
Y (x10^4)
Time (Min)


/chem3/pid2.i/1130.b/1130b.0027.d
PID HK95I
AIA 1130b.0027.cdf
TFT(Surr)
BB(Surr)
MTBE
Y (x10^4)
Time (Min)

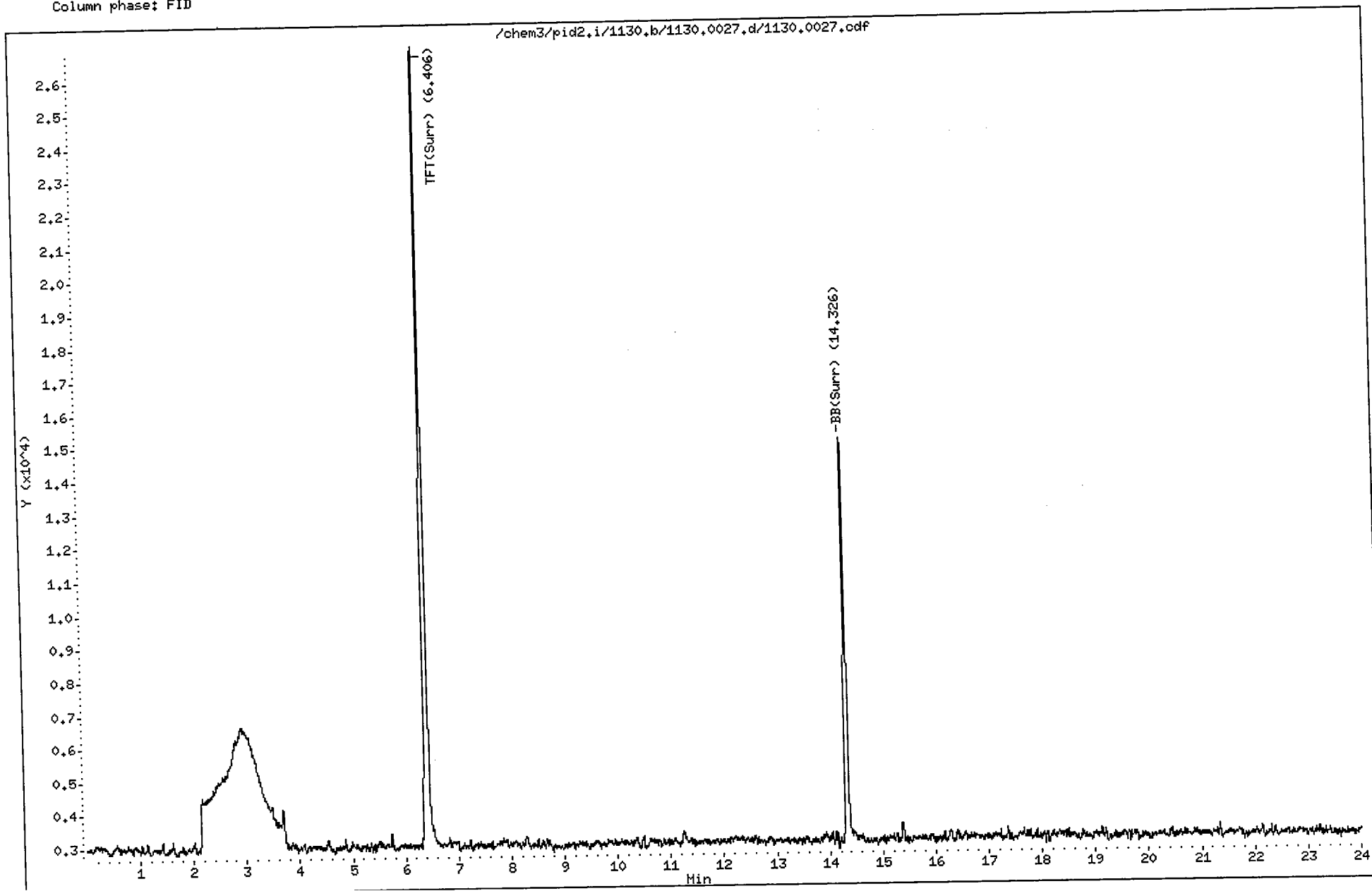
000207

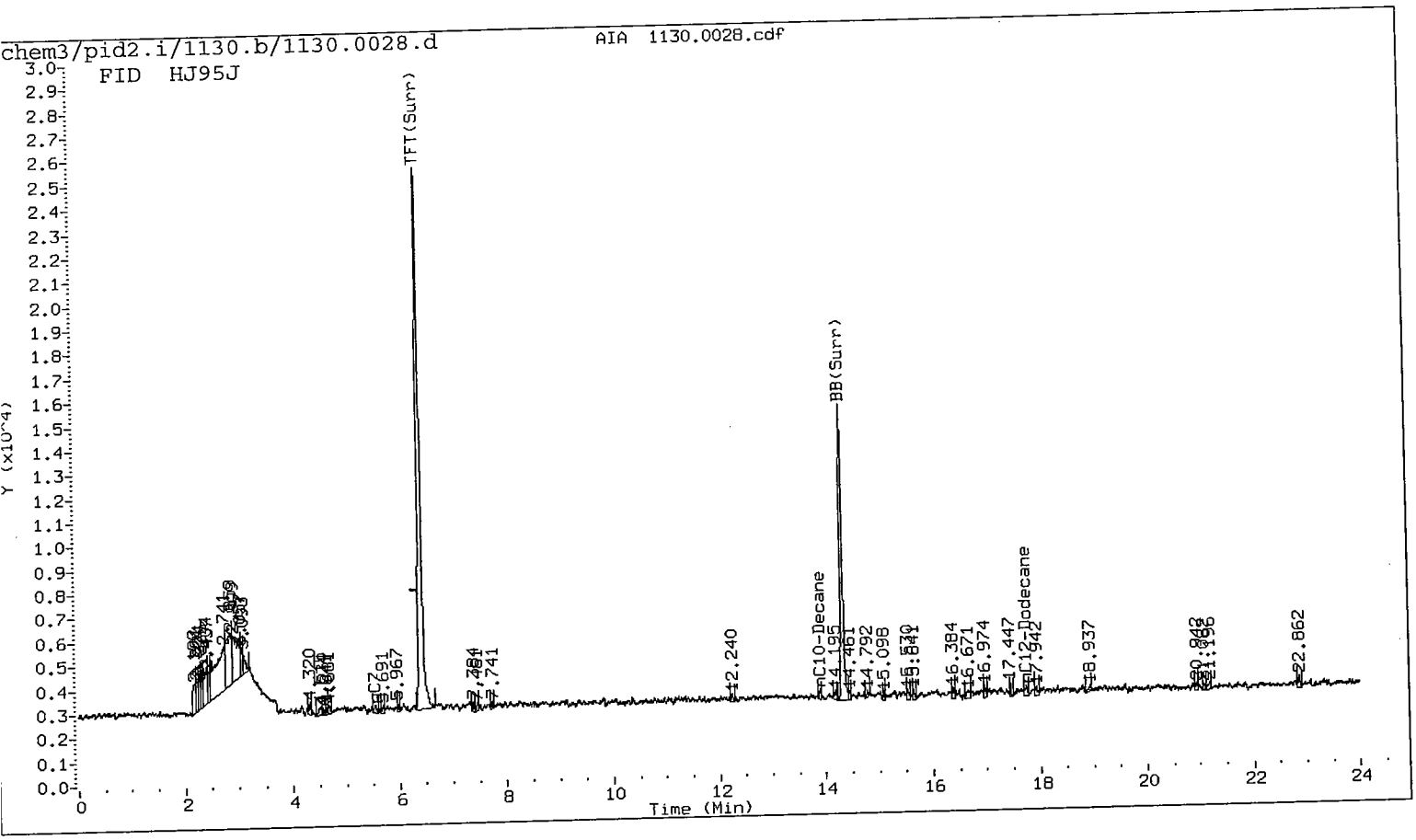
Data File: /chem3/pid2.i/1130.b/1130.0027.d
Date : 30-NOV-2004 23:54
Client ID: MW-103
Sample Info: HJ95I

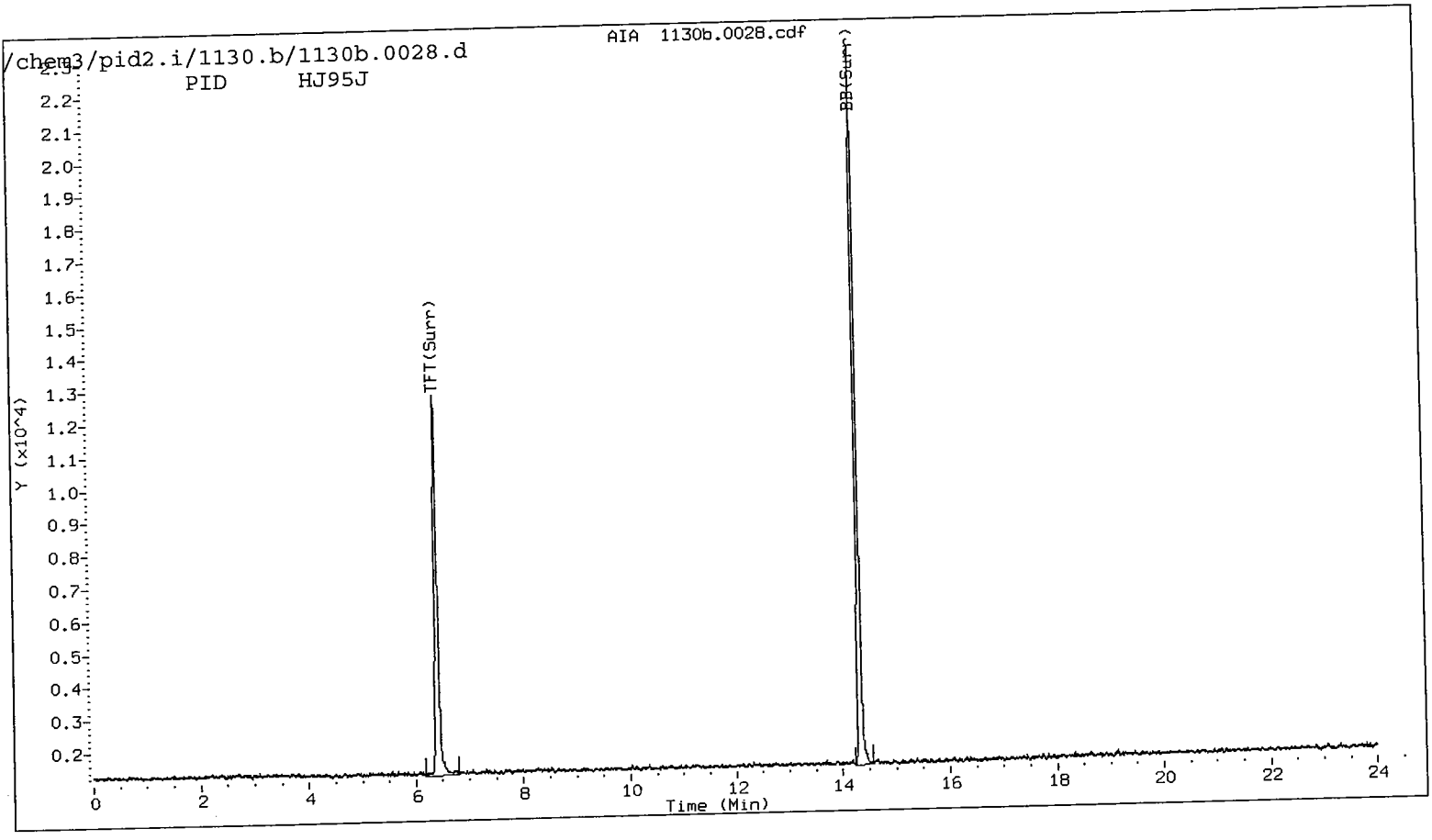
Instrument: pid2.i

Operator: PC
Column diameter: 2.00

Column phase: FID




chem3/pid2.i/1130.b/1130.0028.d
AIA 1130.0028.cdf
FID HJ95J
TFT(Surr)
BB(Surr)
nC10-Decane
nC12-Dodecane
12.240
18.937
22.862
Y (x10^4)
Time (Min)


/chem3/pid2.i/1130.b/1130b.0028.d
AIA 1130b.0028.cdf
PID HJ95J
TFT(Surr)
BB(Surr)
Y (x10^4)
Time (Min)

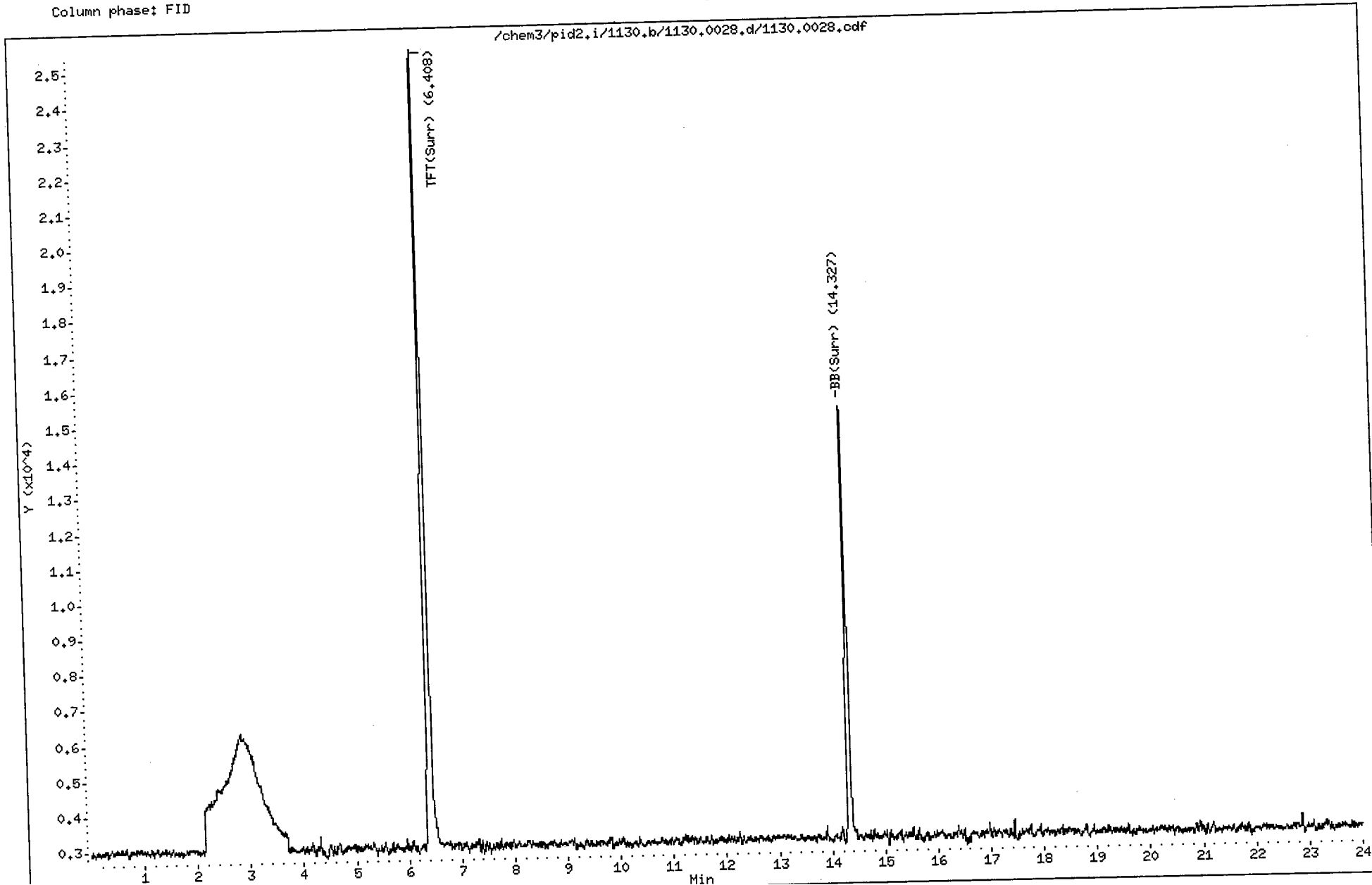
000209

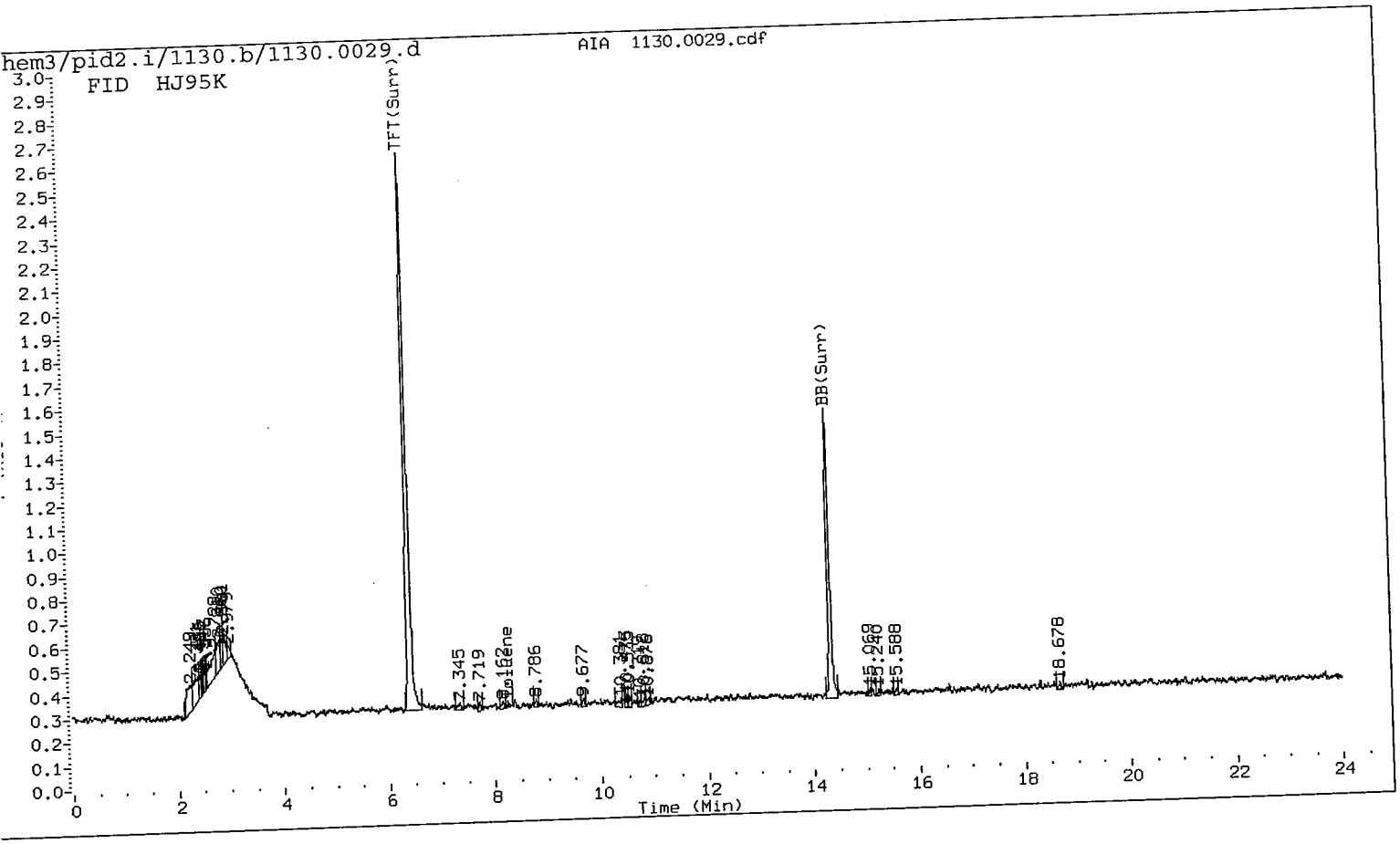
Data File: /chem3/pid2.i/1130.b/1130.0028.d
Date : 01-DEC-2004 00:21
Client ID: MW-108
Sample Info: HJ95J

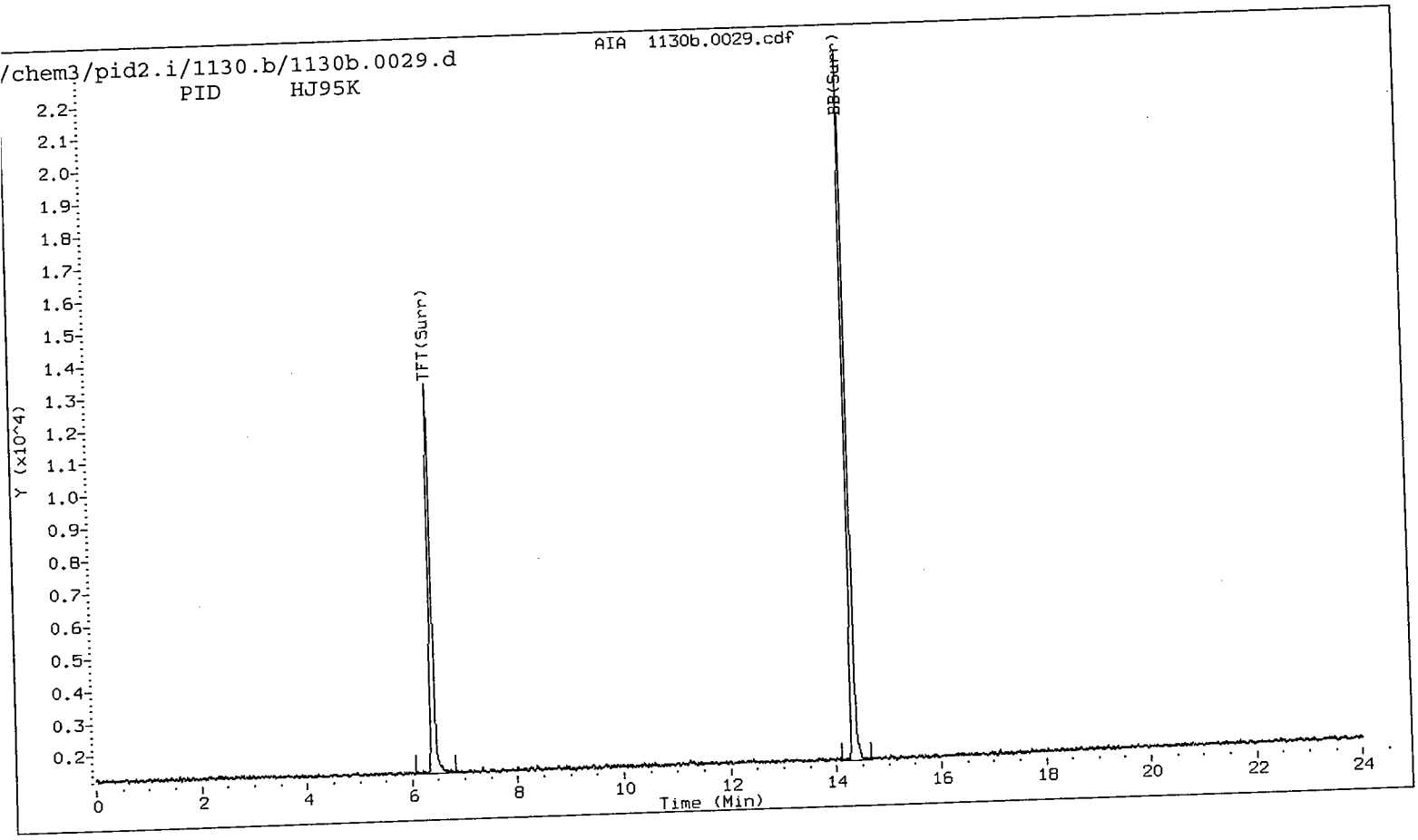
Instrument: pid2.i

Operator: PC
Column diameter: 2.00

Column phase: FID




hem3/pid2.i/1130.b/1130.0029.d
FID HJ95K
AIA 1130.0029.cdf
TFT(Surr)
BB(Surr)
2.345
2.719
9.677
15.588
18.678
Time (Min)


/chem3/pid2.i/1130.b/1130b.0029.d
PID HJ95K
AIA 1130b.0029.cdf
TFT(Surr)
BB(Surr)
Y (x10^4)
Time (Min)

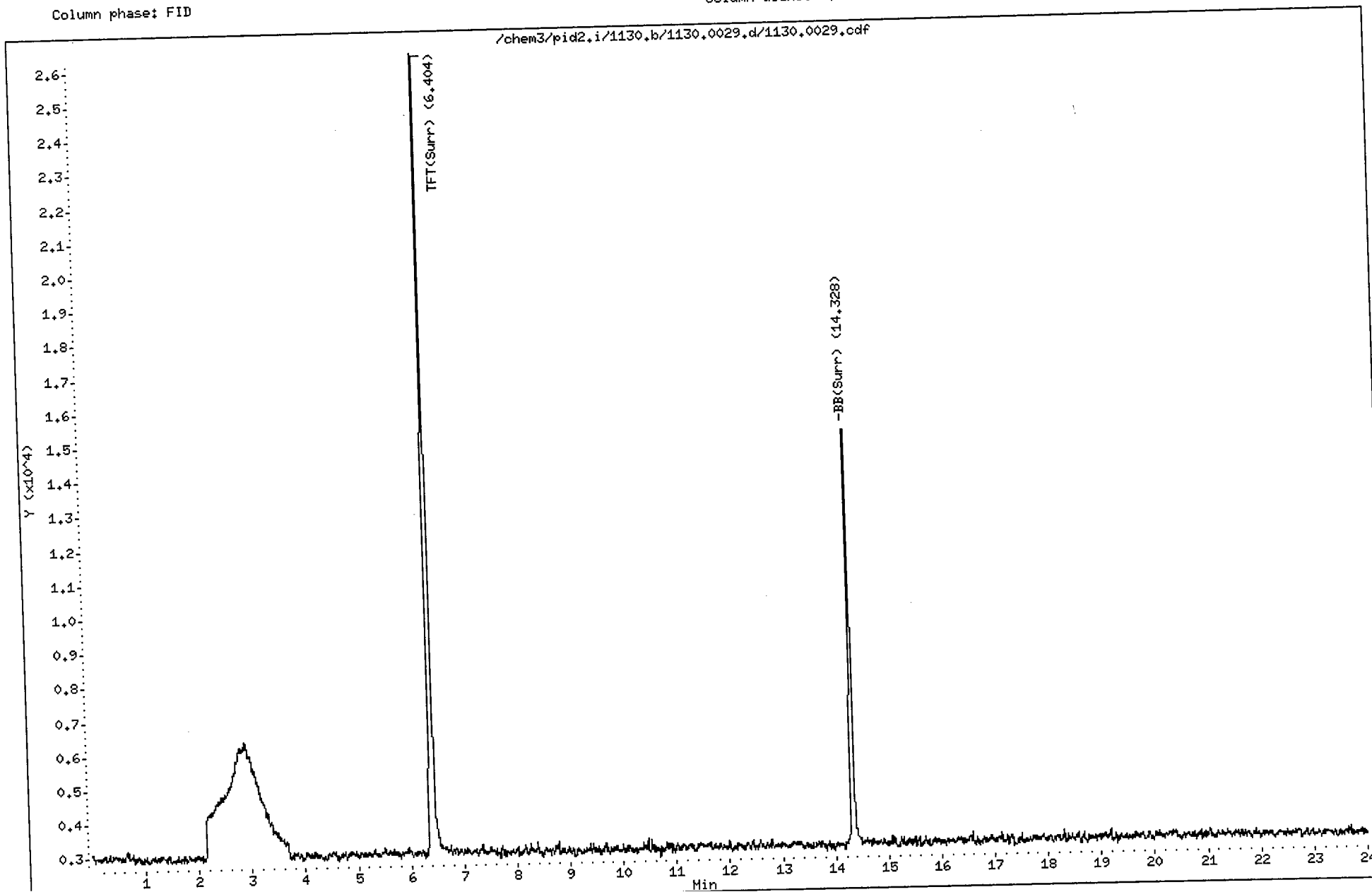
000211

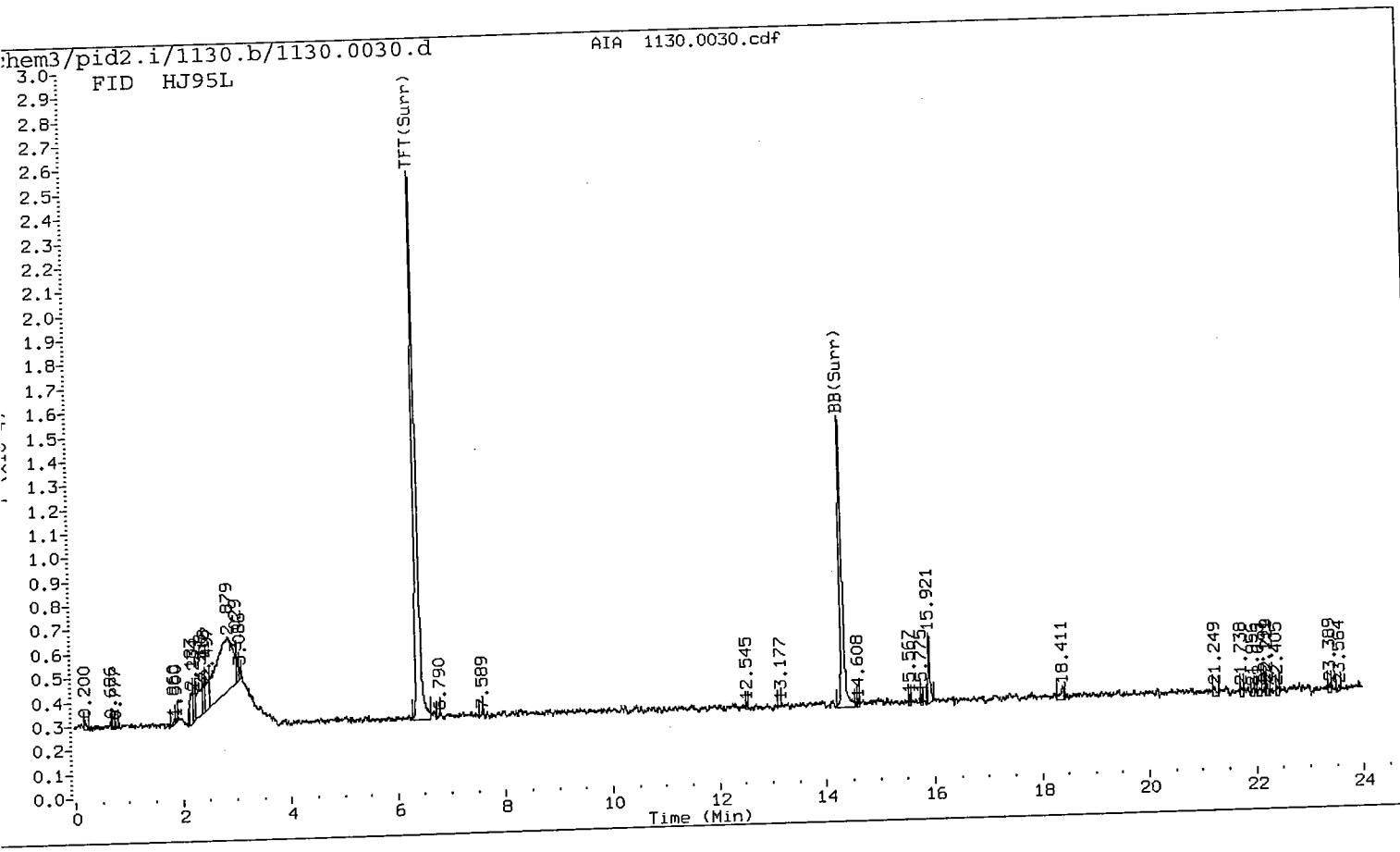
Data File: /chem3/pid2.i/1130.b/1130.0029.d
Date : 01-DEC-2004 00:49
Client ID: MW-112
Sample Info: HJ95K

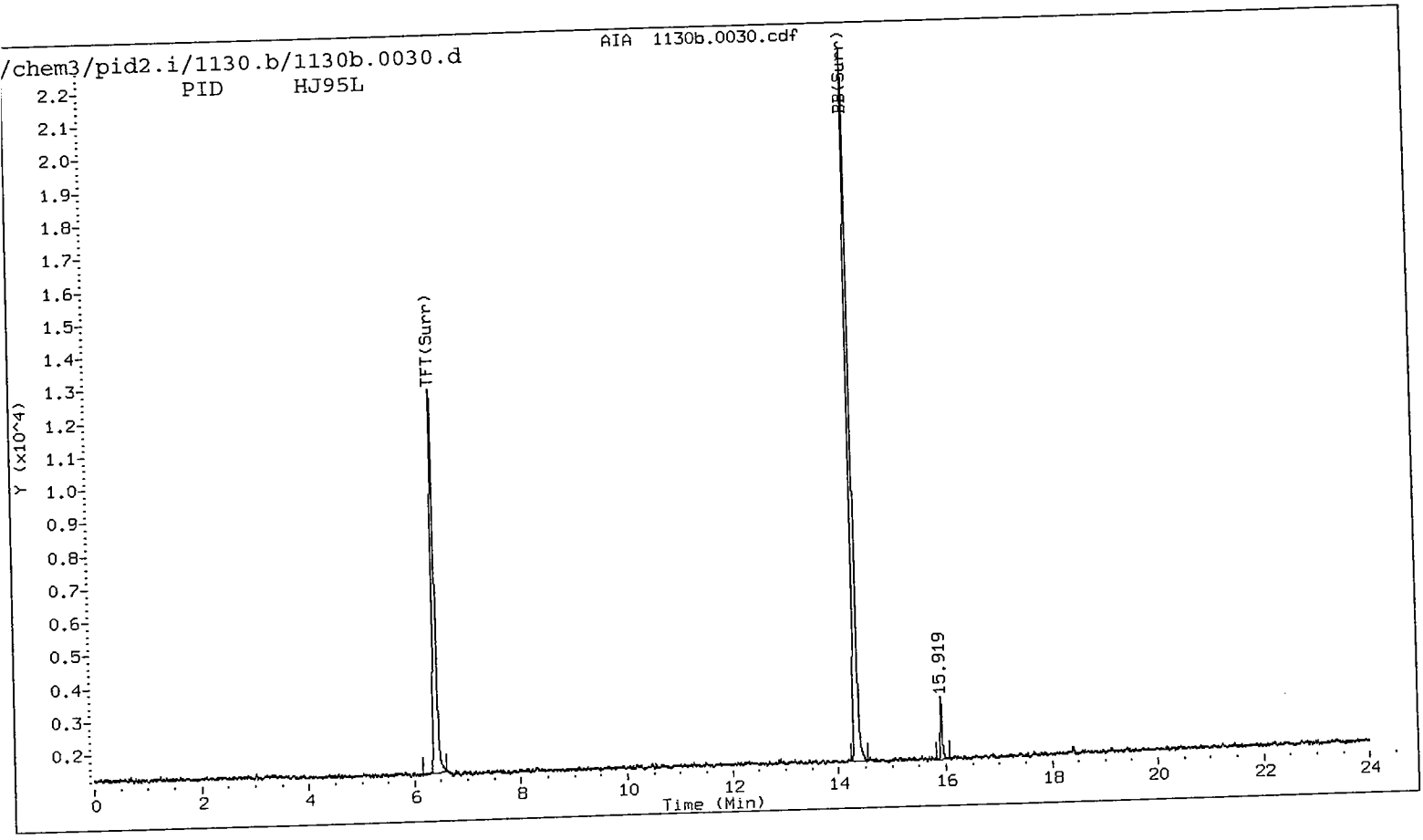
Instrument: pid2.i

Operator: PC
Column diameter: 2.00

Column phase: FID




AIA 1130.0030.cdf
/chem3/pid2.i/1130.b/1130.0030.d
FID HJ95L
TFT(Surr)
BB(Surr)
12.545
13.177
14.608
15.921
18.411
21.249
Time (Min)


AIA 1130b.0030.cdf
/chem3/pid2.i/1130.b/1130b.0030.d
PID HJ95L
TFT(Surr)
BB(Surr)
15.919
Y (x10^4)
Time (Min)

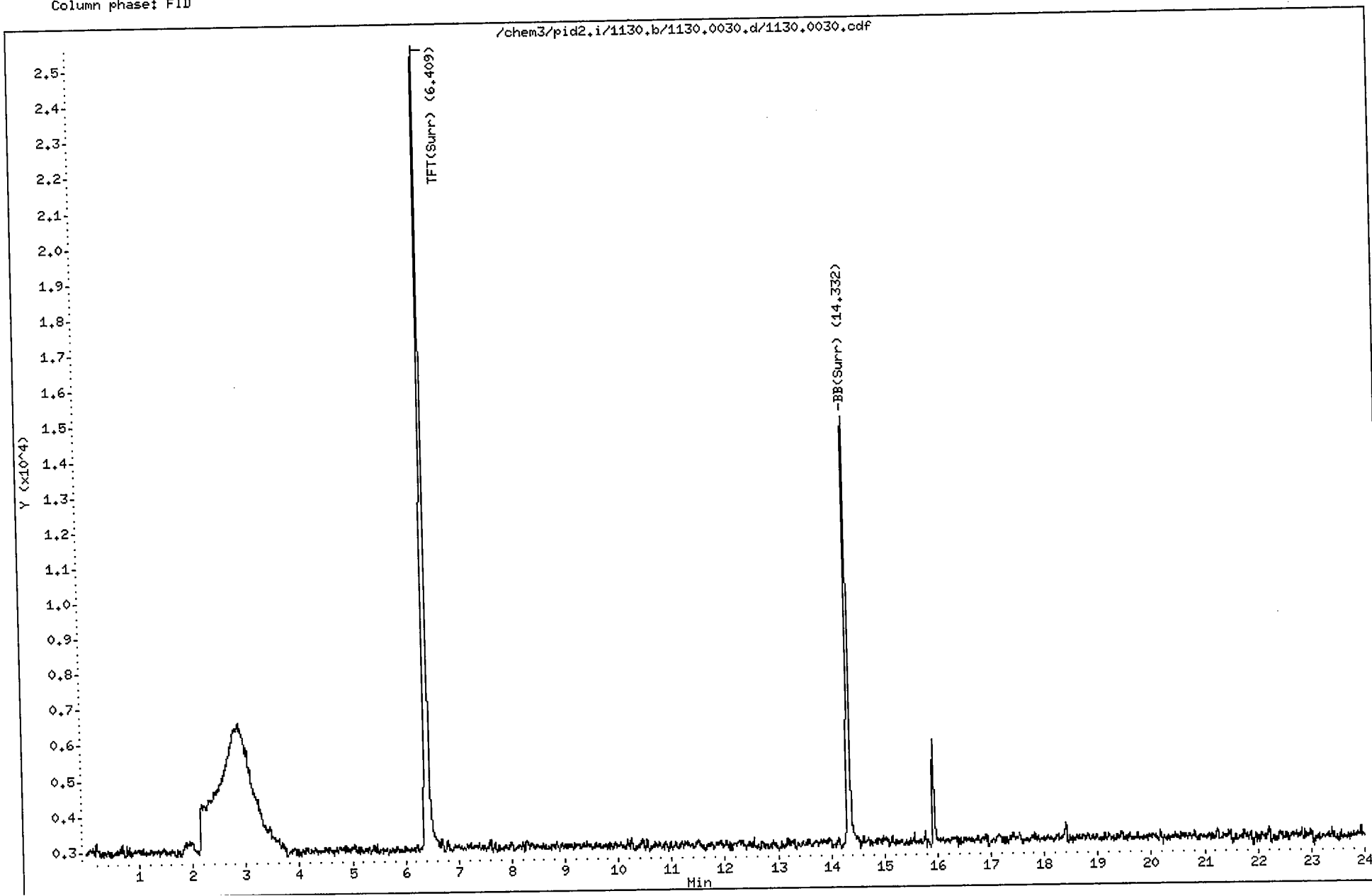
000213

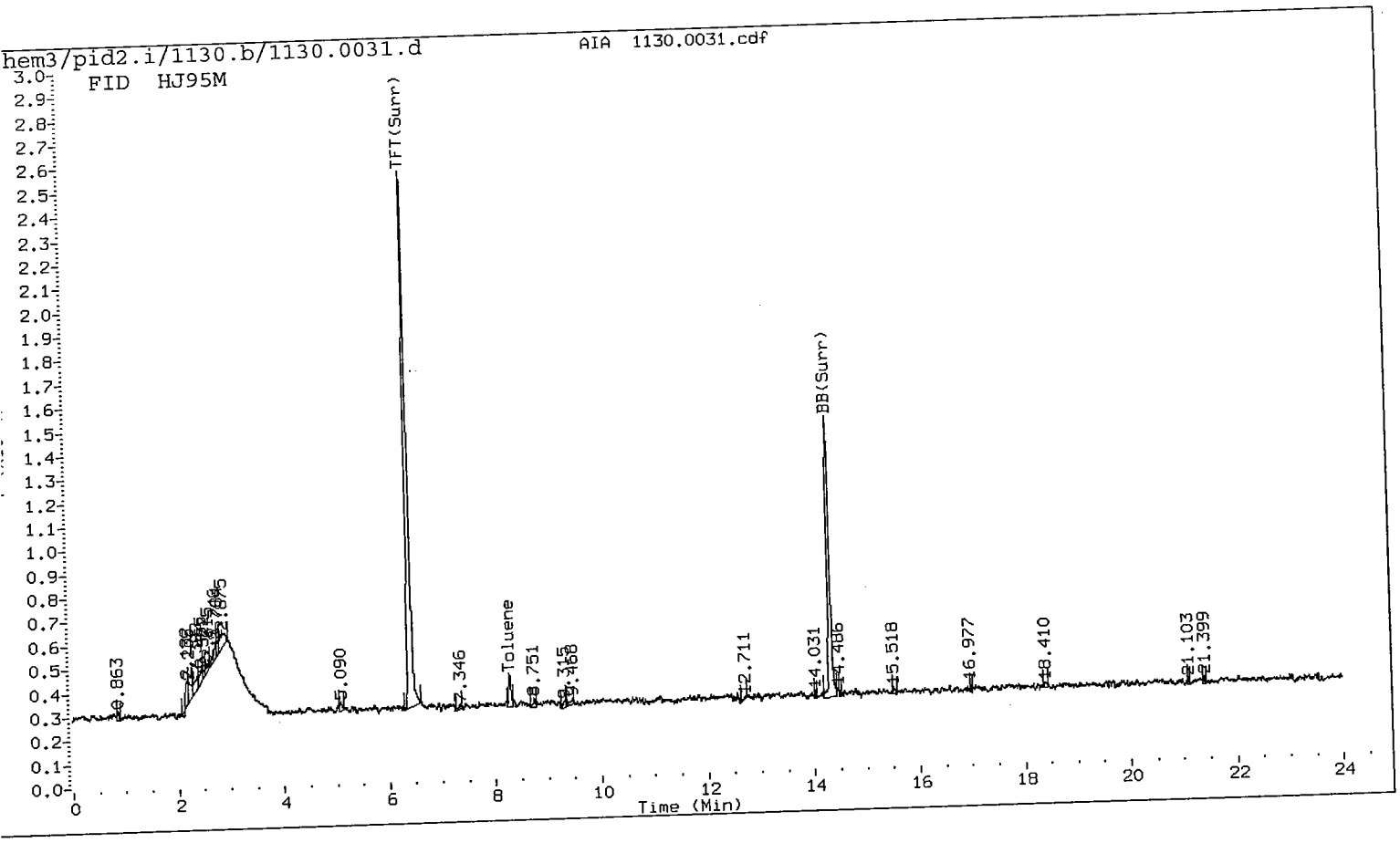
Data File: /chem3/pid2.i/1130.b/1130.0030.d
Date : 01-DEC-2004 01:16
Client ID: MW-109
Sample Info: HJ95L

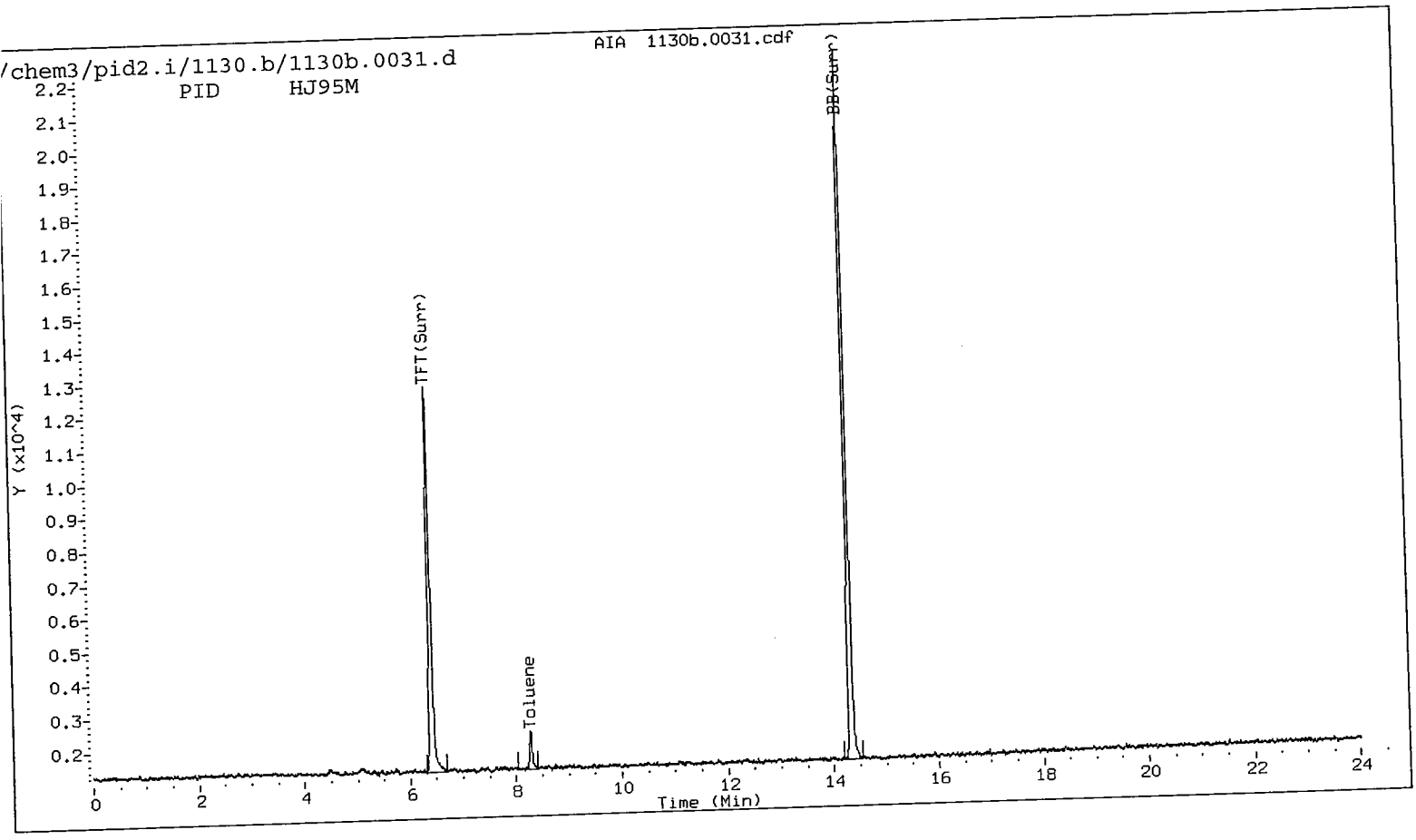
Instrument: pid2.i

Operator: PC
Column diameter: 2.00

Column phase: FID




hem3/pid2.i/1130.b/1130.0031.d
FID HJ95M
AIA 1130.0031.cdf
TFT(Surr)
BB(Surr)
Toluene
0.863
5.090
7.346
8.751
12.711
14.031
14.486
15.518
16.977
18.410
21.103
21.399
Time (Min)


/chem3/pid2.i/1130.b/1130b.0031.d
PID HJ95M
AIA 1130b.0031.cdf
TFT(Surr)
Toluene
BB(Surr)
Y (x10^4)
Time (Min)

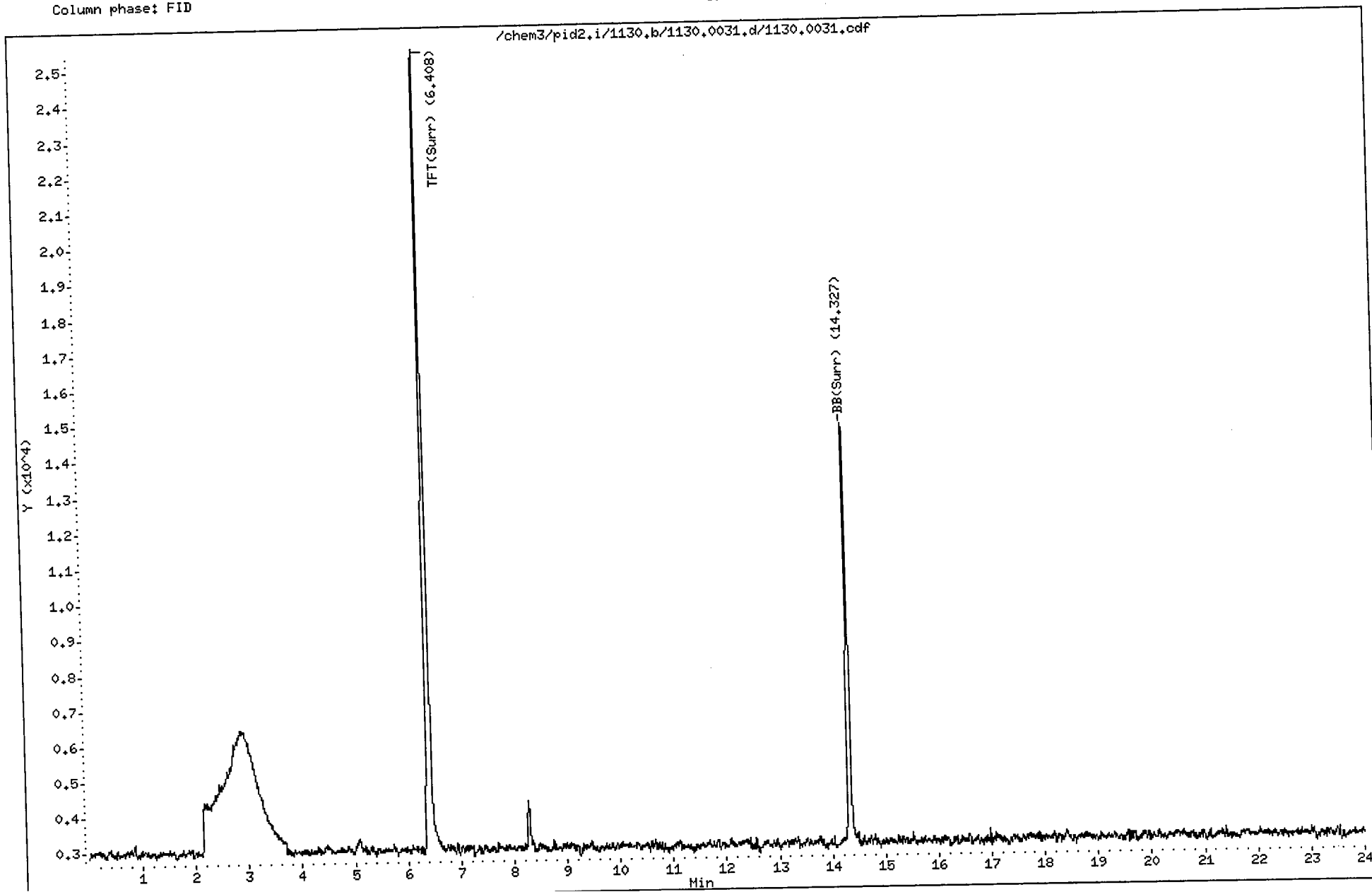
0002215

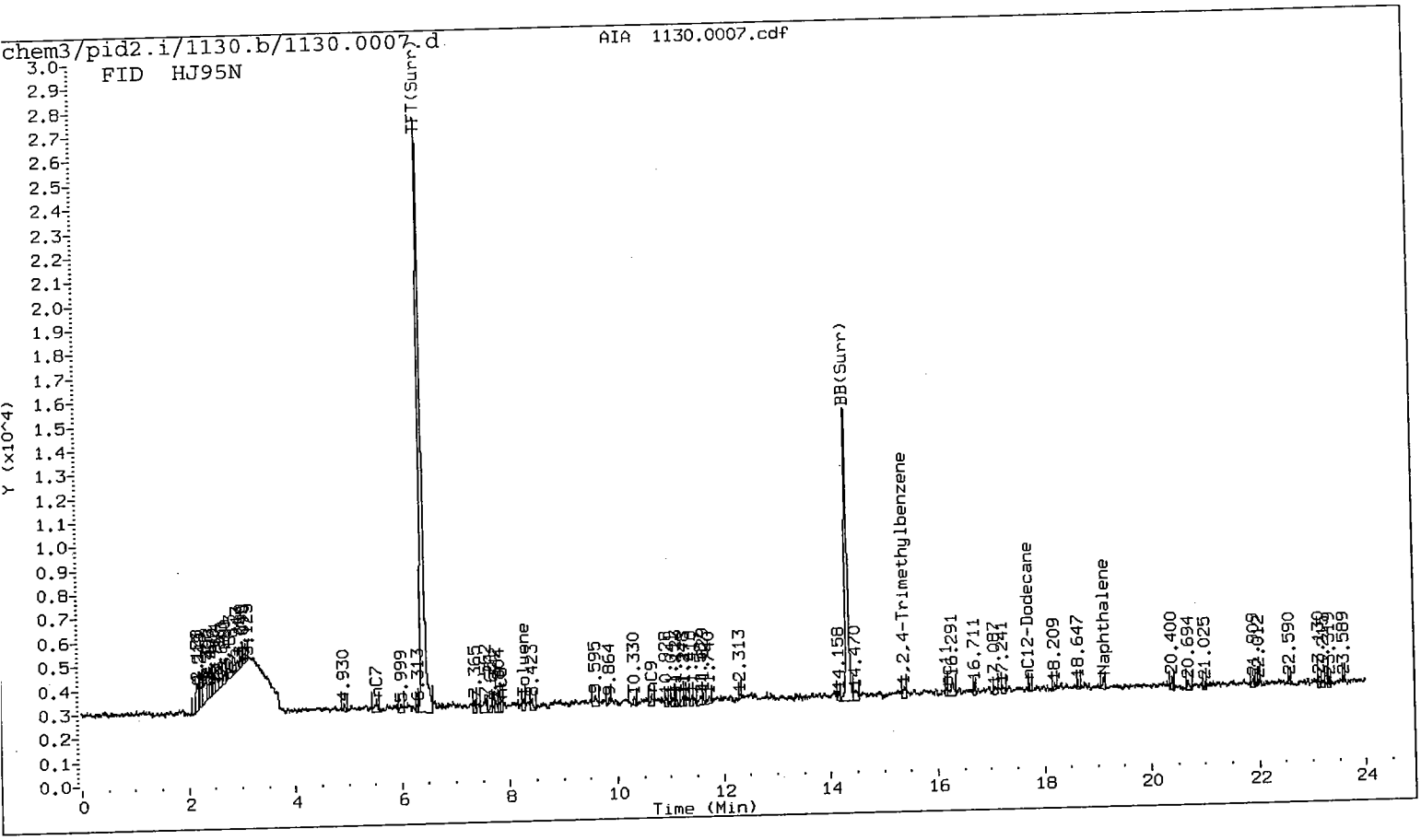
Data File: /chem3/pid2.i/1130.b/1130.0031.d
Date : 01-DEC-2004 01:43
Client ID: MW-110
Sample Info: HJ95M

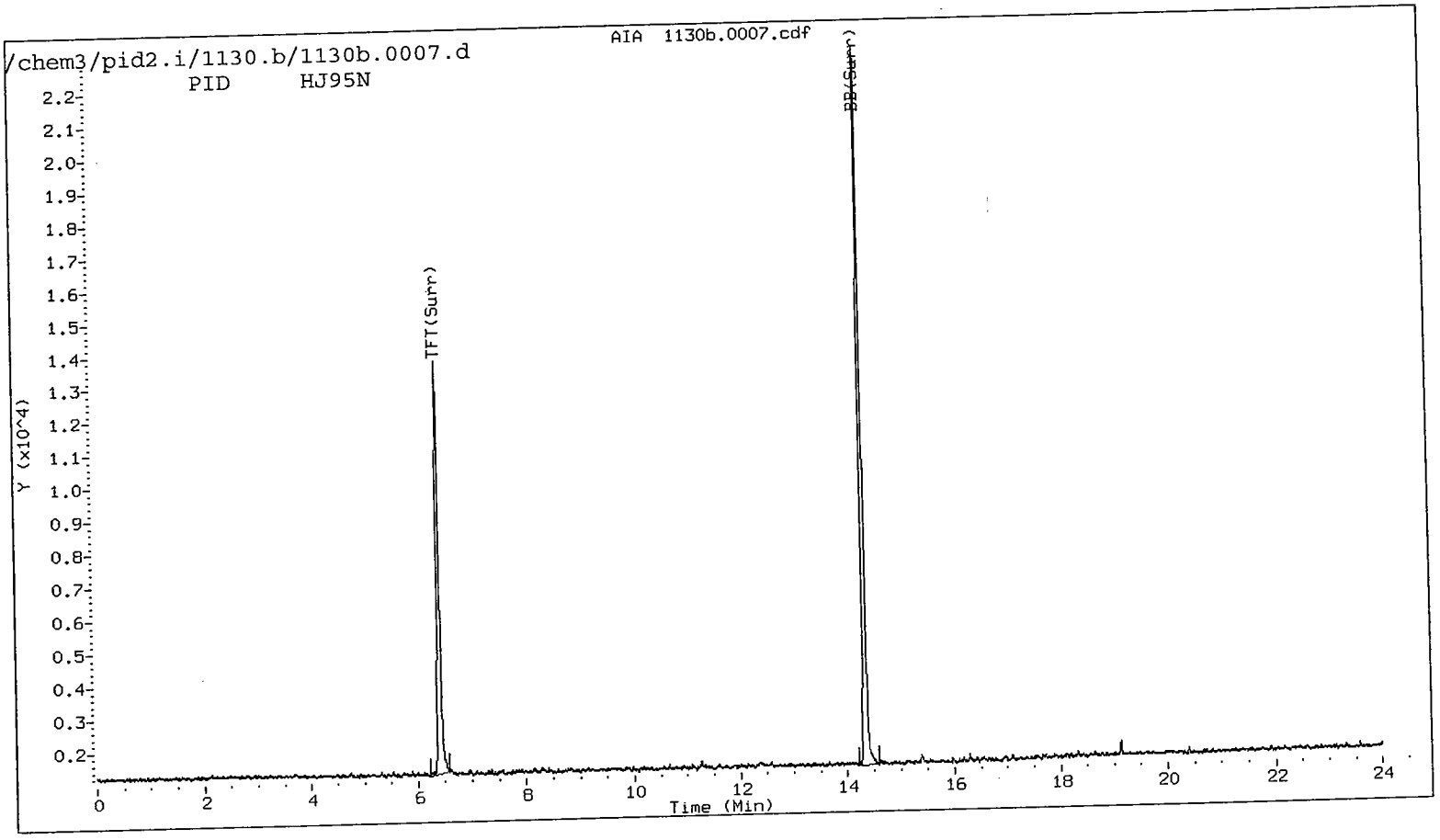
Instrument: pid2.i

Operator: PC
Column diameter: 2.00

Column phase: FID




chem3/pid2.i/1130.b/1130.0007.d
FID HJ95N
AIA 1130.0007.cdf
TFT(Surr)
BB(Surr)
nC7
nC9
Toluene
1,2,4-Trimethylbenzene
nC12-Dodecane
Naphthalene
Y (x10^4)
Time (Min)


/chem3/pid2.i/1130.b/1130b.0007.d
PID HJ95N
AIA 1130b.0007.cdf
TFT(Surr)
BB(Surr)
Y (x10^4)
Time (Min)

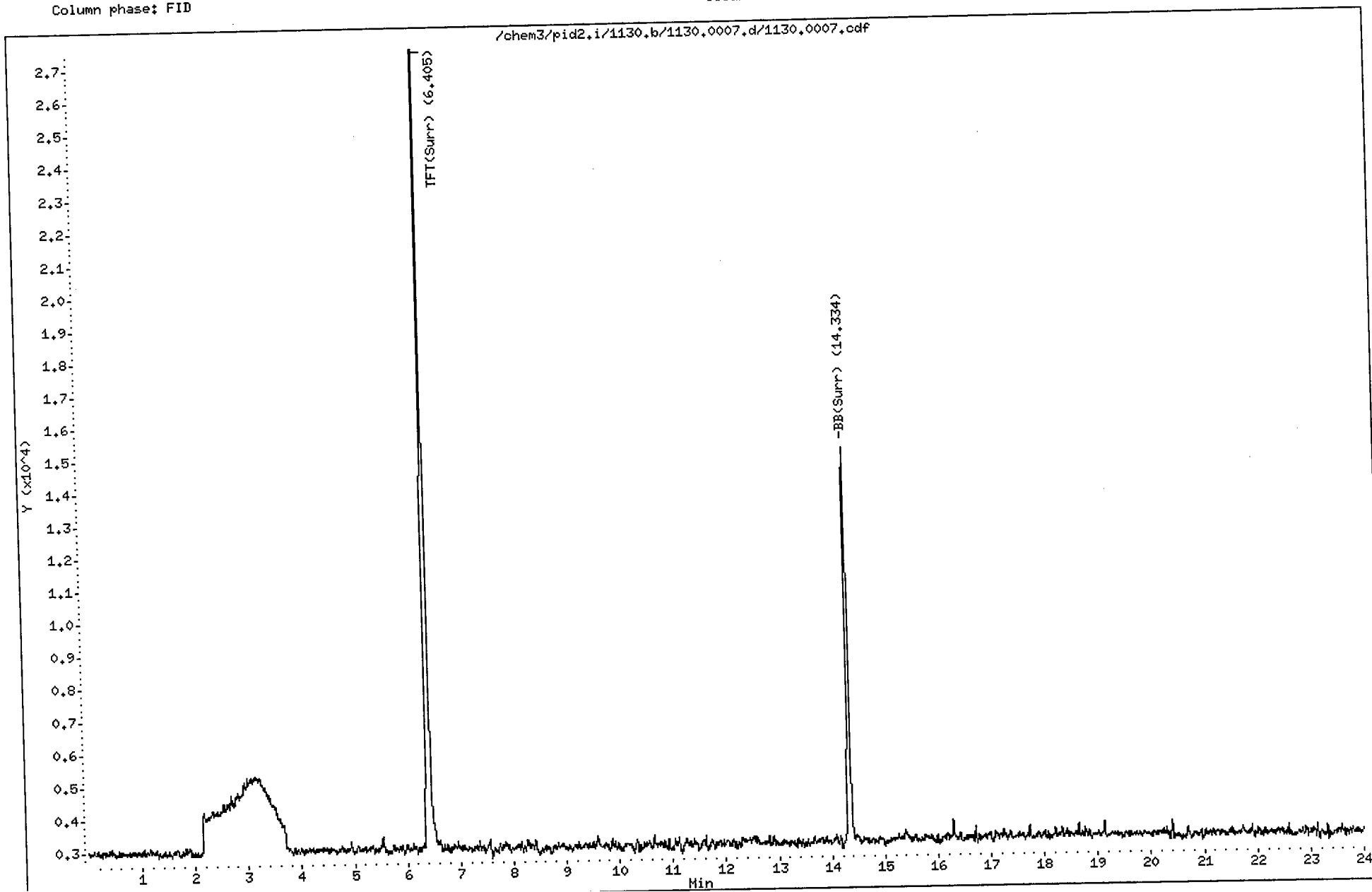
000217

Data File: /chem3/pid2.i/1130.b/1130.0007.d
Date : 30-NOV-2004 14:46
Client ID: Trip Blank
Sample Info: HJ95N

Instrument: pid2.i

Operator: PC
Column diameter: 2.00

Column phase: FID



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHg - Toluene to Naphthalene **Sample ID: MW-111**
Page 1 of 1 **MS/MSD**

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/02/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Instrument/Analyst MS: PID2/PKC
MSD: PID2/PKC
Date Analyzed MS: 11/30/04 18:53
MSD: 11/30/04 19:20

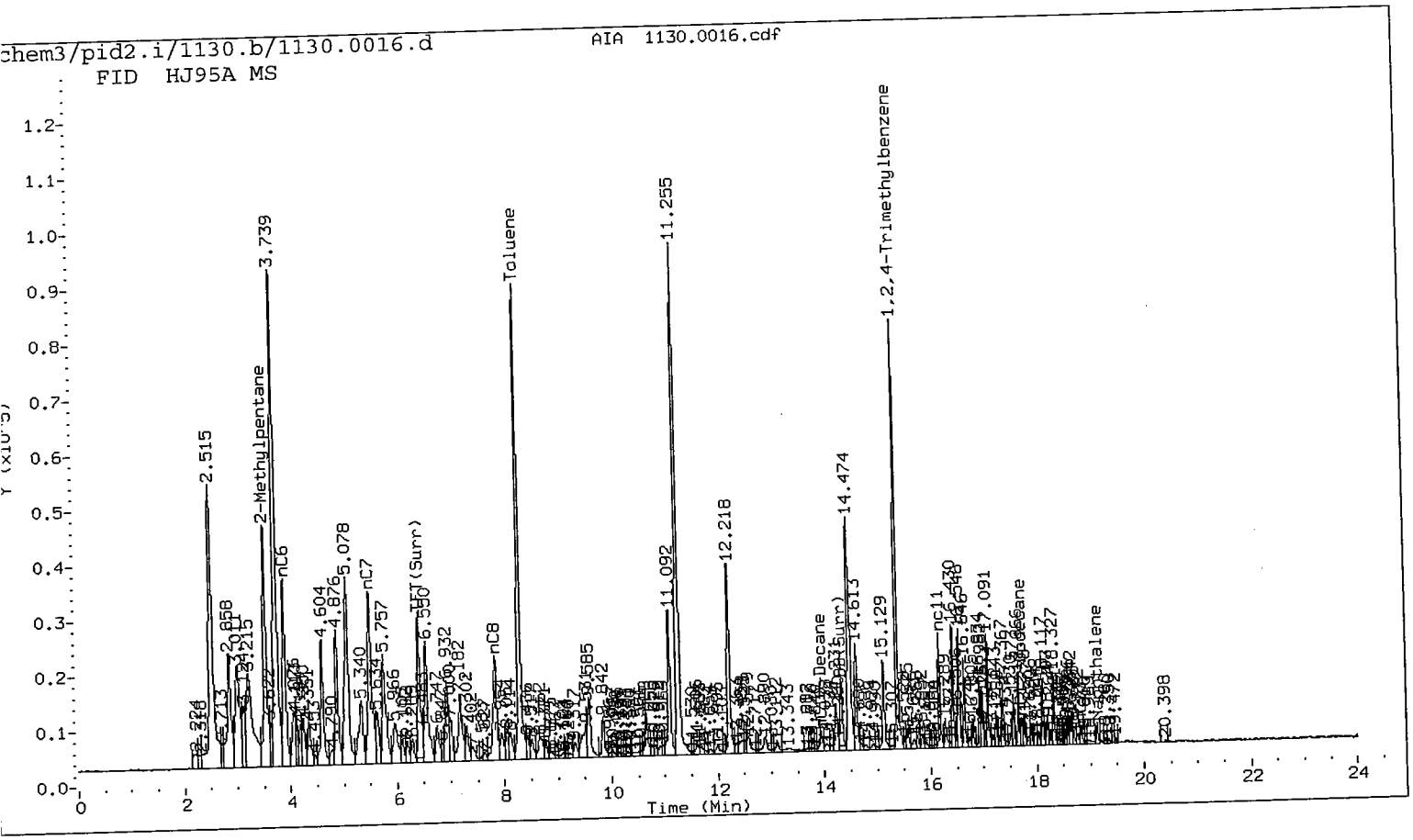
Sample Amount MS: 5.0 mL
MSD: 5.0 mL

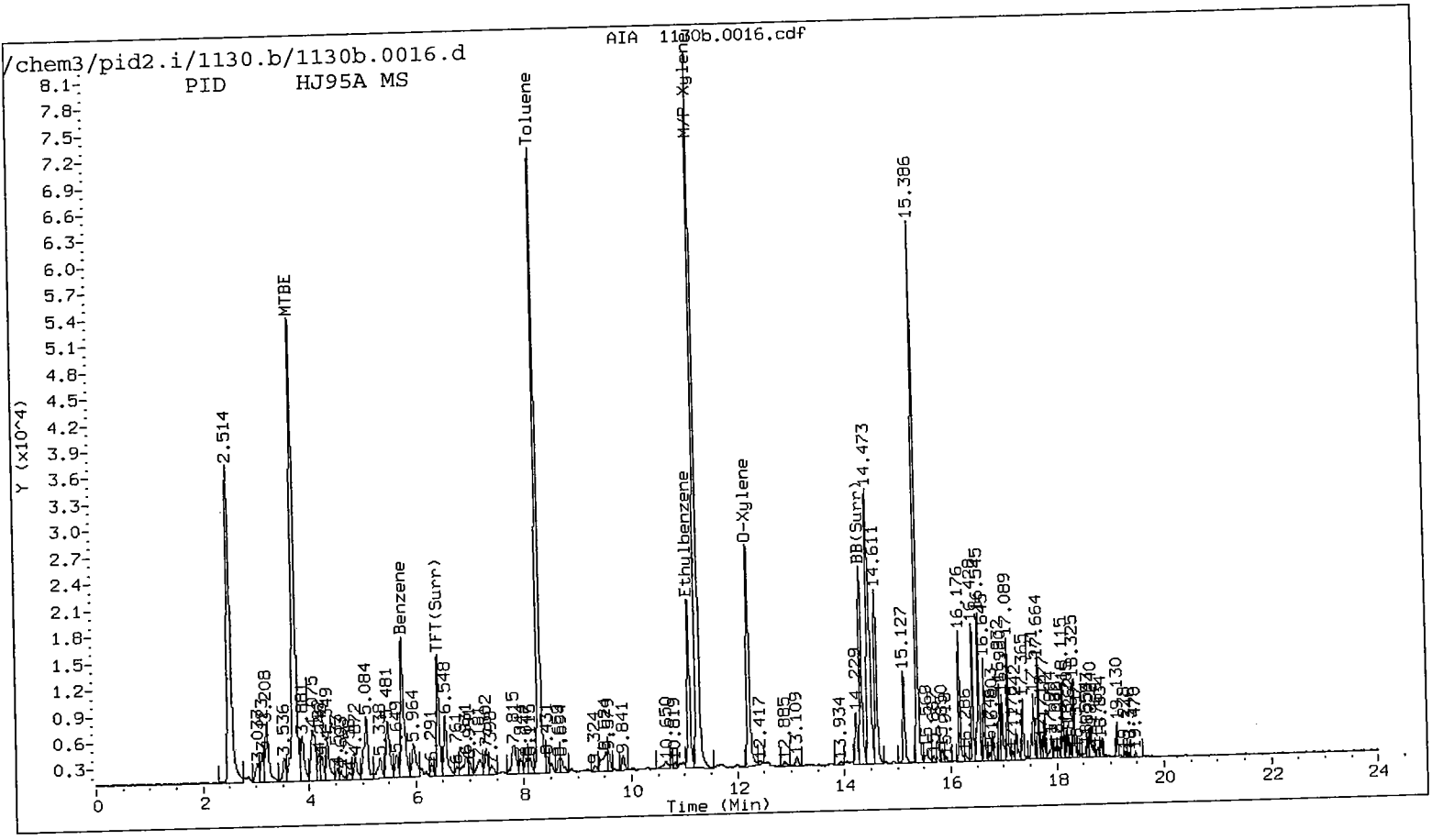
Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Gasoline Range Hydrocarbons	< 0.25 U	2.56	2.50	102%	2.51	2.50	100%	2.0%

Results reported in mg/L (ppm).
RPD calculated using sample concentrations per SW846.

Gasoline Surrogate Recovery

	MS	MSD
Trifluorotoluene	104%	101%
Bromobenzene	93.7%	91.2%


/chem3/pid2.i/1130.b/1130.0016.d
AIA 1130.0016.cdf
FID HJ95A MS
Y (x10^5)
Time (Min)
2.515
2-Methylpentane
3.739
nC6
4.604
4.876
5.078
nC7
5.340
5.757
TFT(Surr)
6.550
Toluene
nC8
11.092
11.255
12.218
14.474
1,2,4-Trimethylbenzene
14.613
BB(Surr)
15.129
Decane
nC11
Naphthalene
20.398


/chem3/pid2.i/1130.b/1130b.0016.d
AIA 1130b.0016.cdf
PID HJ95A MS
Y (x10^4)
Time (Min)
2.514
MTBE
Benzene
TFT(Surr)
Toluene
M/P Xylene
Ethylbenzene
O-Xylene
14.473
BB(Surr)
14.611
15.386
15.127

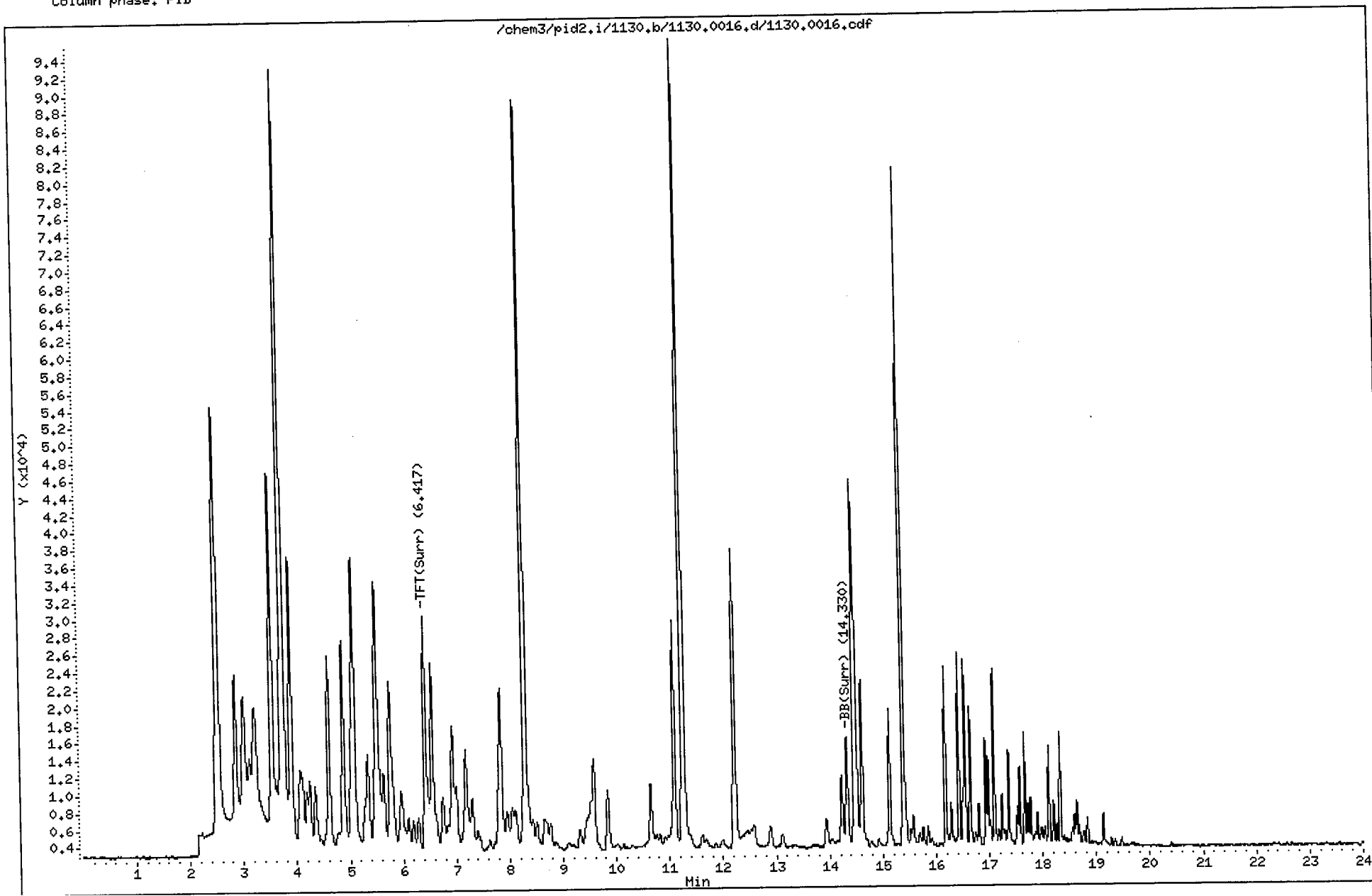
000220

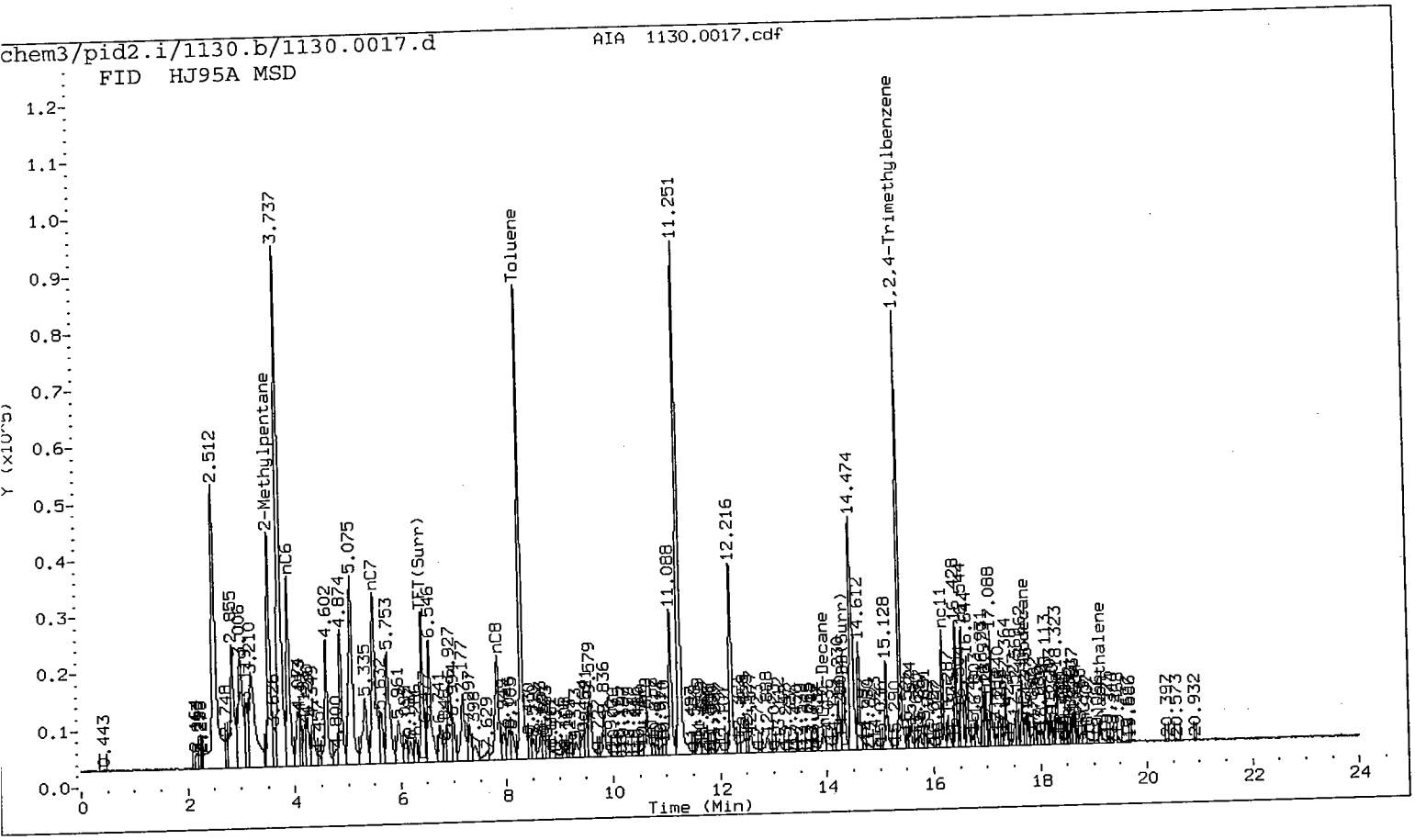
Data File: /chem3/pid2.i/1130.b/1130.0016.d
Date : 30-NOV-2004 18:53
Client ID: MW-111 MS
Sample Info: HJ95A MS

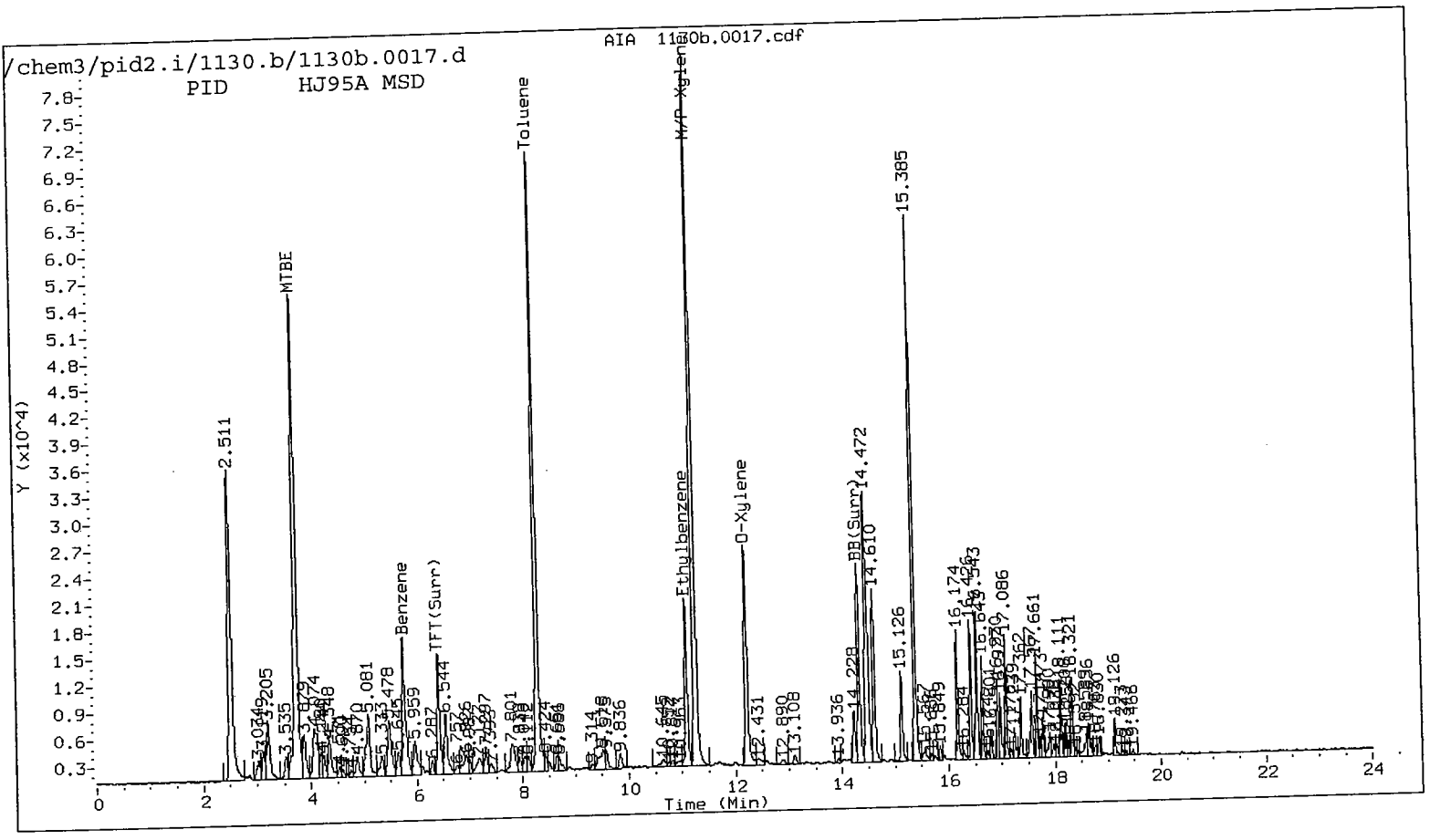
Instrument: pid2.i

Operator: PC
Column diameter: 2.00

Column phase: FID




chem3/pid2.i/1130.b/1130.0017.d
AIA 1130.0017.cdf
FID HJ95A MSD
Y (x10^5)
Time (Min)
2.512
3.737
2-Methylpentane
nC6
5.075
nC7
Toluene
11.251
12.216
14.474
1,2,4-Trimethylbenzene
nC8
TFT(Surr)
n-Decane
nC11
Naphthalene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AIA 1130b.0017.cdf
PID HJ95A MSD
Y (x10^4)
Time (Min)
2.511
MTBE
Benzene
TFT(Surr)
Toluene
M/P-Xylene
Ethylbenzene
O-Xylene
BB(Surr)
14.472
14.610
15.385
15.126

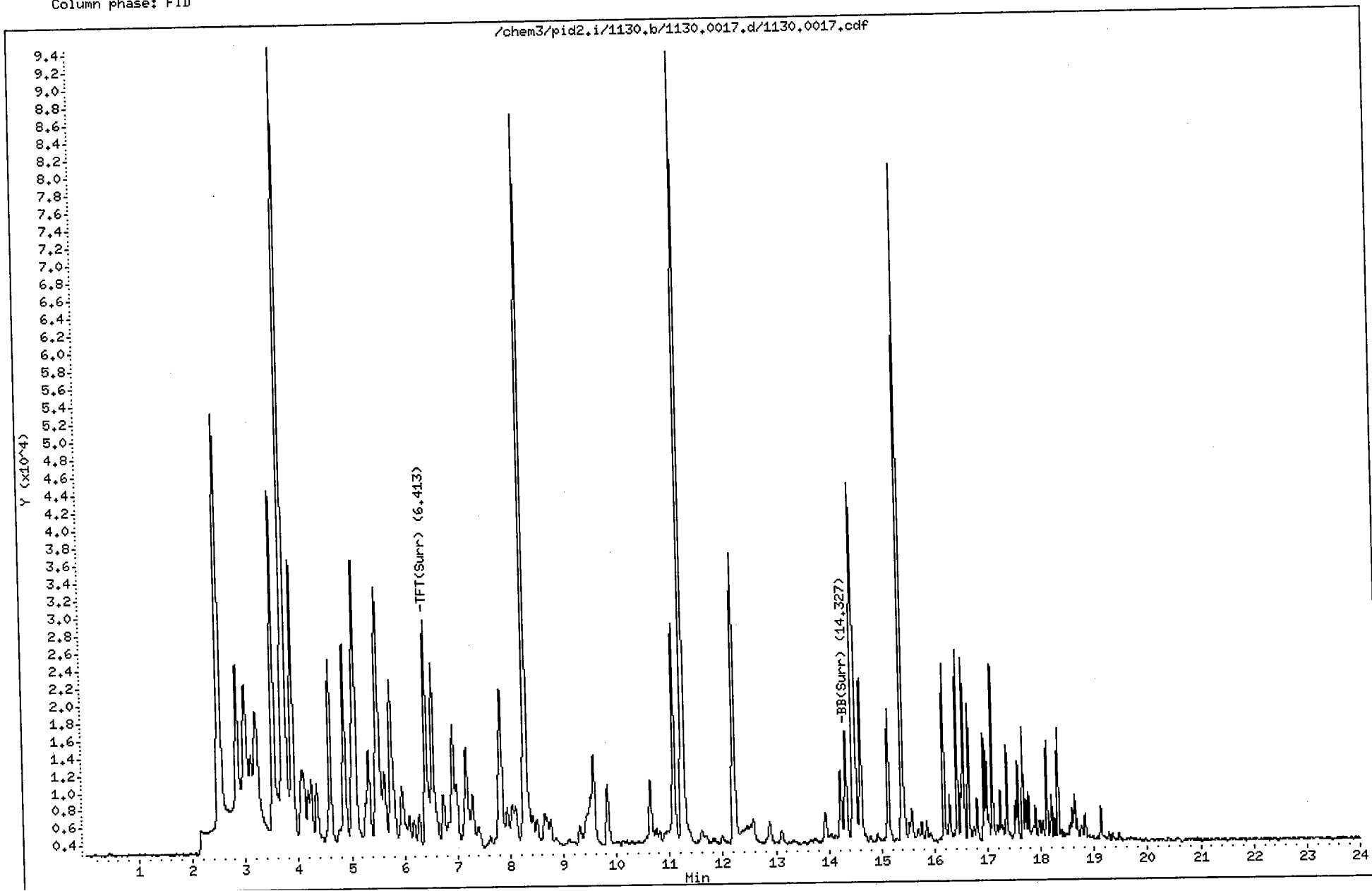
000222

Data File: /chem3/pid2.i/1130.b/1130.0017.d
Date : 30-NOV-2004 19:20
Client ID: MW-111 MS
Sample Info: HJ95A MSD

Column phase: FID

Instrument: pid2.i

Operator: PC
Column diameter: 2.00



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHg - Toluene to Naphthalene **Sample ID: LCS-113004**
Page 1 of 1 **LCS/LCSD**

Lab Sample ID: LCS-113004 QC Report No: HJ95-Landau Associates
LIMS ID: 04-20656 Project: Port of Anacortes (POA)
Matrix: Water 529009
Data Release Authorized: Date Sampled: NA
Reported: 12/02/04 Date Received: NA

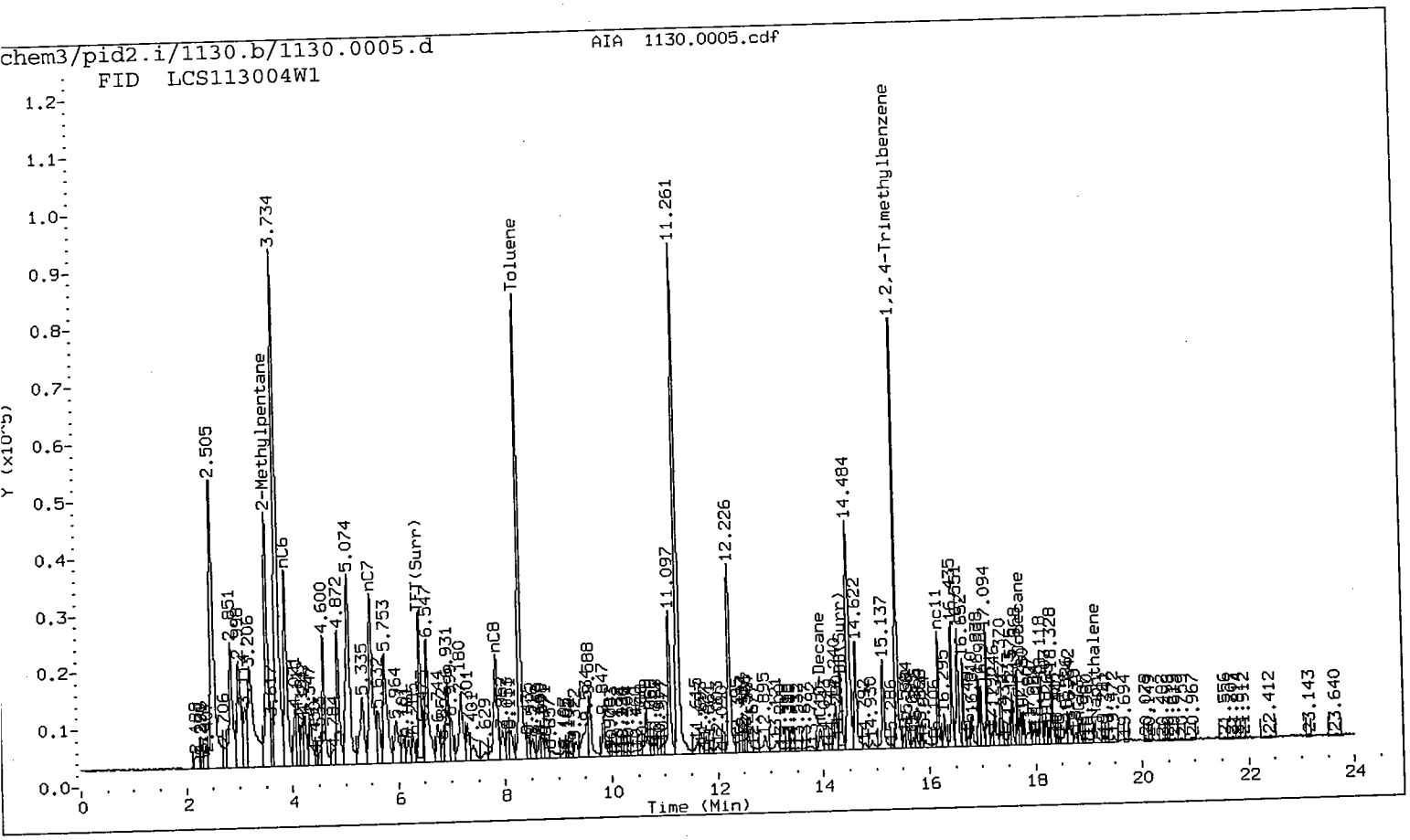
Instrument/Analyst LCS: PID2/PKC Sample Amount LCS: 5.0 mL
LCSD: PID2/PKC LCSD: 5.0 mL
Date Analyzed LCS: 11/30/04 13:52
LCSD: 11/30/04 14:19

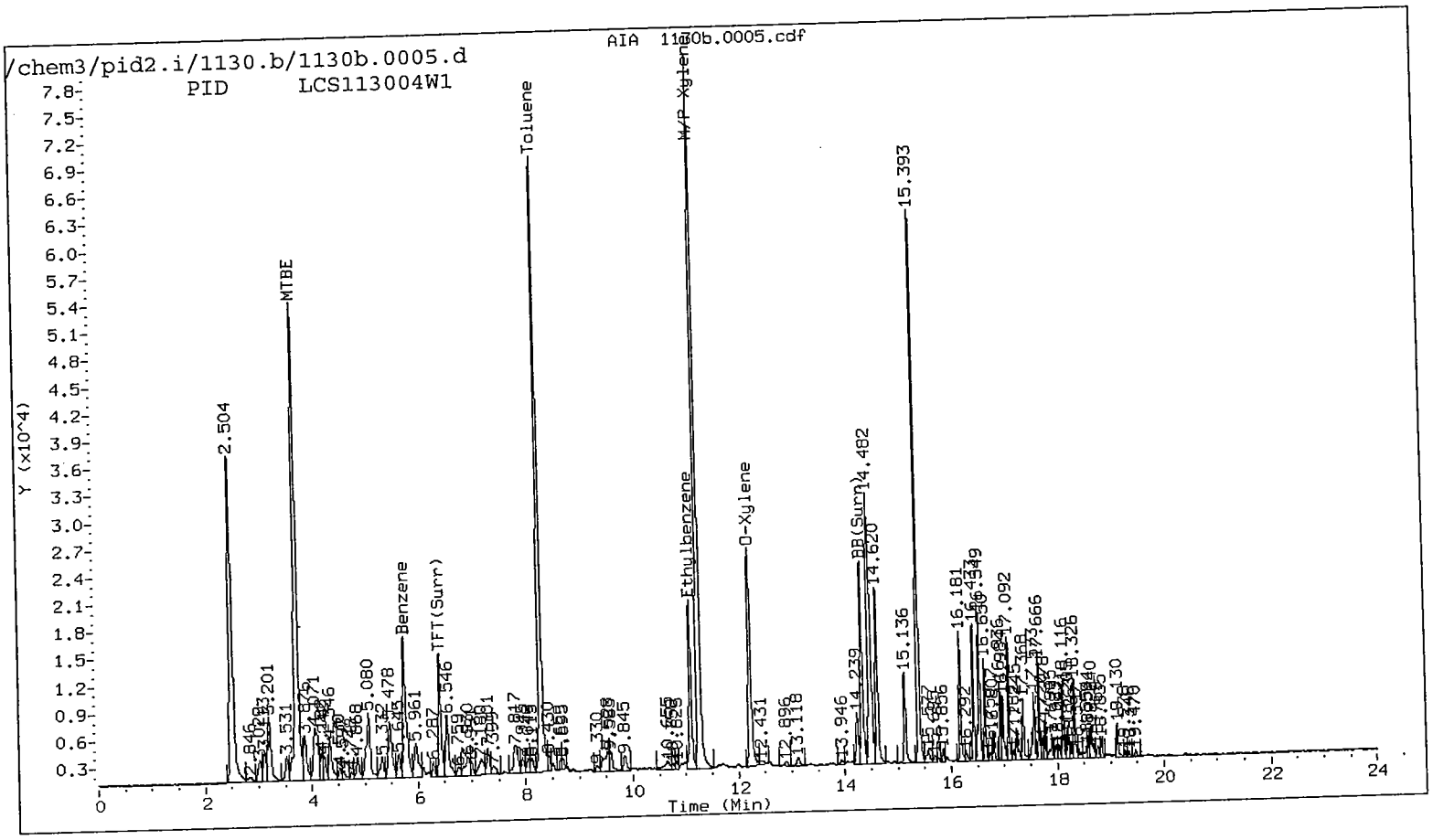
Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	2.46	2.50	98.4%	2.48	2.50	99.2%	0.8%

Results reported in mg/L (ppm).
RPD calculated using sample concentrations per SW846.

Gasoline Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	98.8%	100%
Bromobenzene	92.4%	91.8%


chem3/pid2.i/1130.b/1130.0005.d
AIA 1130.0005.cdf
FID LCS113004W1
Y (x10^5)
Time (Min)
2.505
2-Methylpentane
3.734
nC6
4.600
4.872
5.074
nC7
5.335
5.753
TFT(Surr)
6.547
nC8
Toluene
11.097
11.261
12.226
14.484
Decane
14.622
15.137
1,2,4-Trimethylbenzene
nC11
Naphthalene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AIA 1130b.0005.cdf
PID LCS113004W1
Y (x10^4)
Time (Min)
2.504
MTBE
Benzene
TFT(Surr)
Toluene
M/P Xylene
Ethylbenzene
O-Xylene
BB(Surr)
14.482
14.620
15.136
15.393

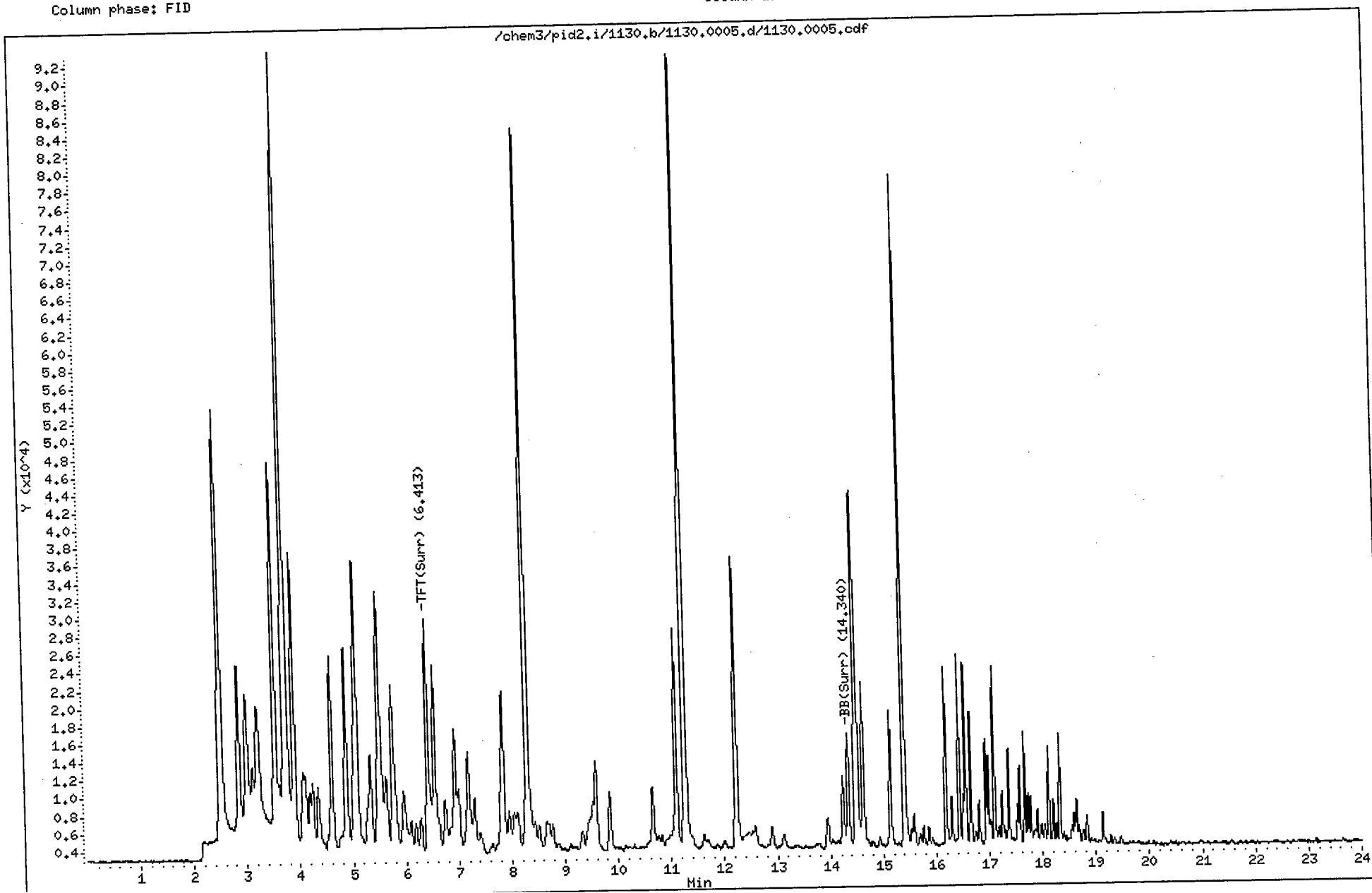
000225

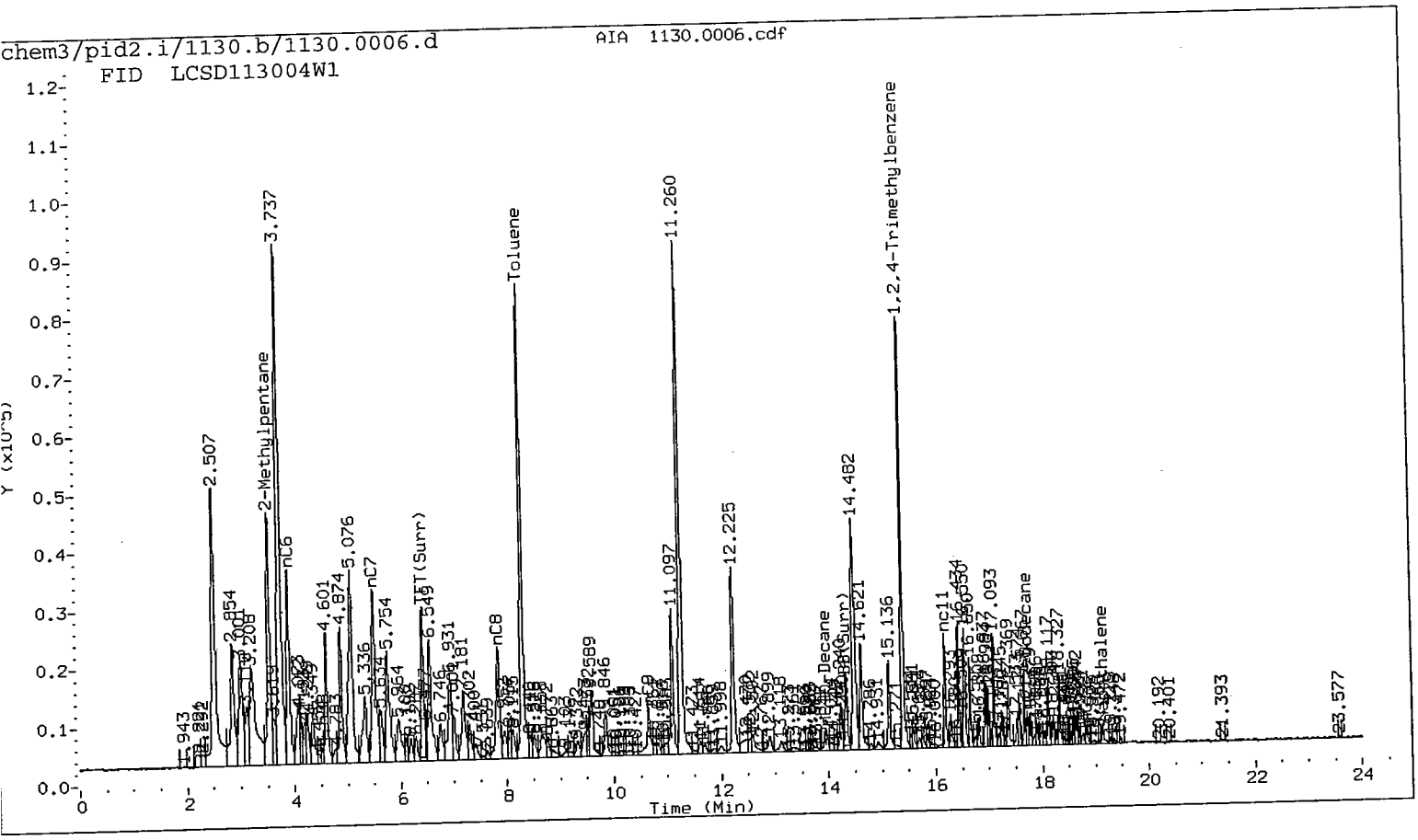
Data File: /chem3/pid2.i/1130.b/1130.0005.d
Date : 30-NOV-2004 13:52
Client ID: LCS113004W1
Sample Info: LCS113004W1

Column phase: FID

Instrument: pid2.i

Operator: PC
Column diameter: 2.00

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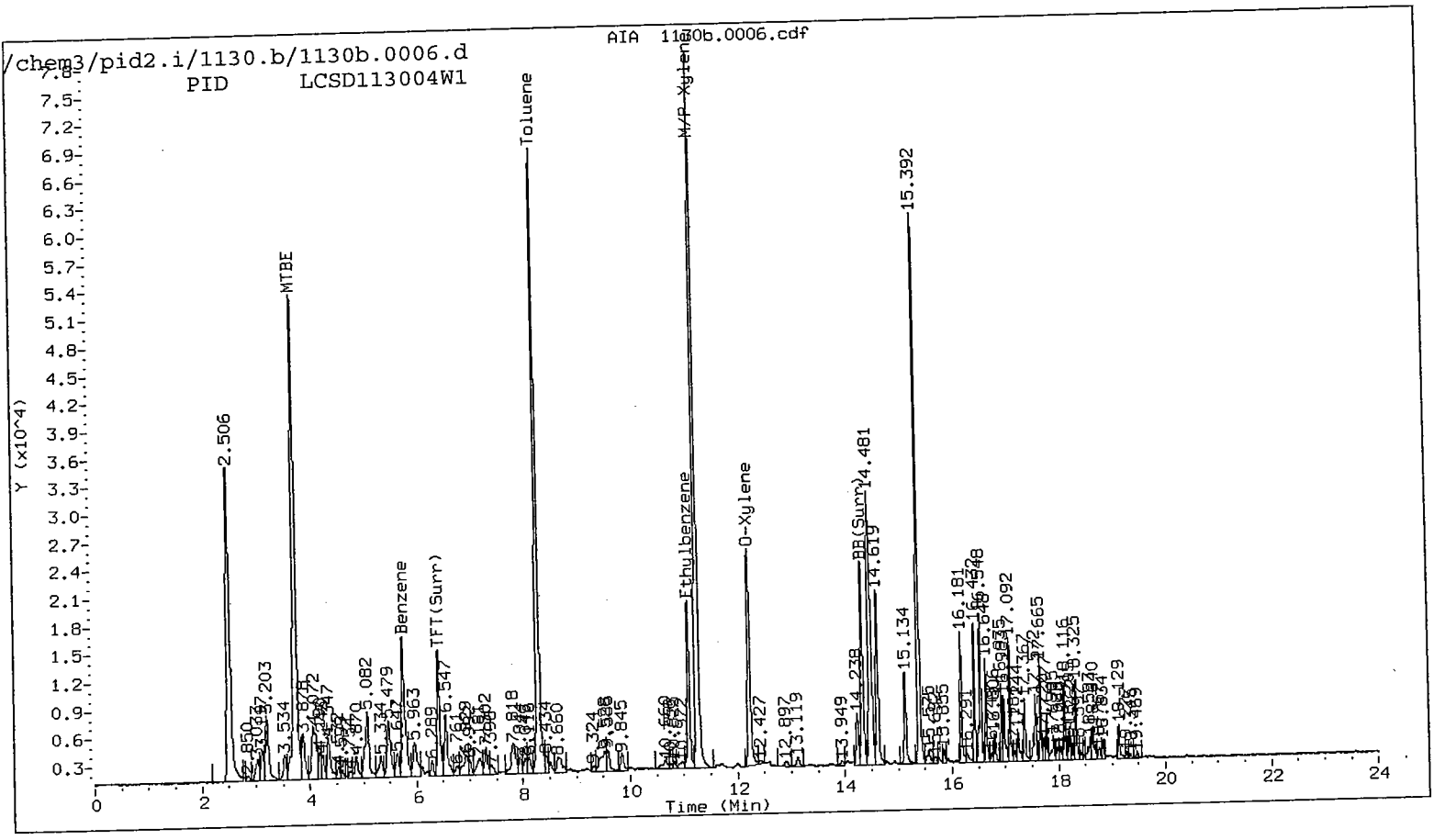
FID LCSD113004W1
AIA 1130.0006.cdf
Y (x10^5)
Time (Min)
2.507
2-Methylpentane
3.737
nC6
4.601
4.874
5.076
nC7
5.336
5.754
TFT(Surr)
6.547
Toluene
nC8
11.097
11.260
12.225
14.482
1,2,4-Trimethylbenzene
Decane
14.621
15.136
nC11
Naphthalene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PID LCSD113004W1
AIA 1130b.0006.cdf
Y (x10^4)
Time (Min)
2.506
MTBE
Benzene
TFT(Surr)
Toluene
M/P-Xylene
Ethylbenzene
O-Xylene
BB(Surr)
14.481
14.619
15.392
15.134

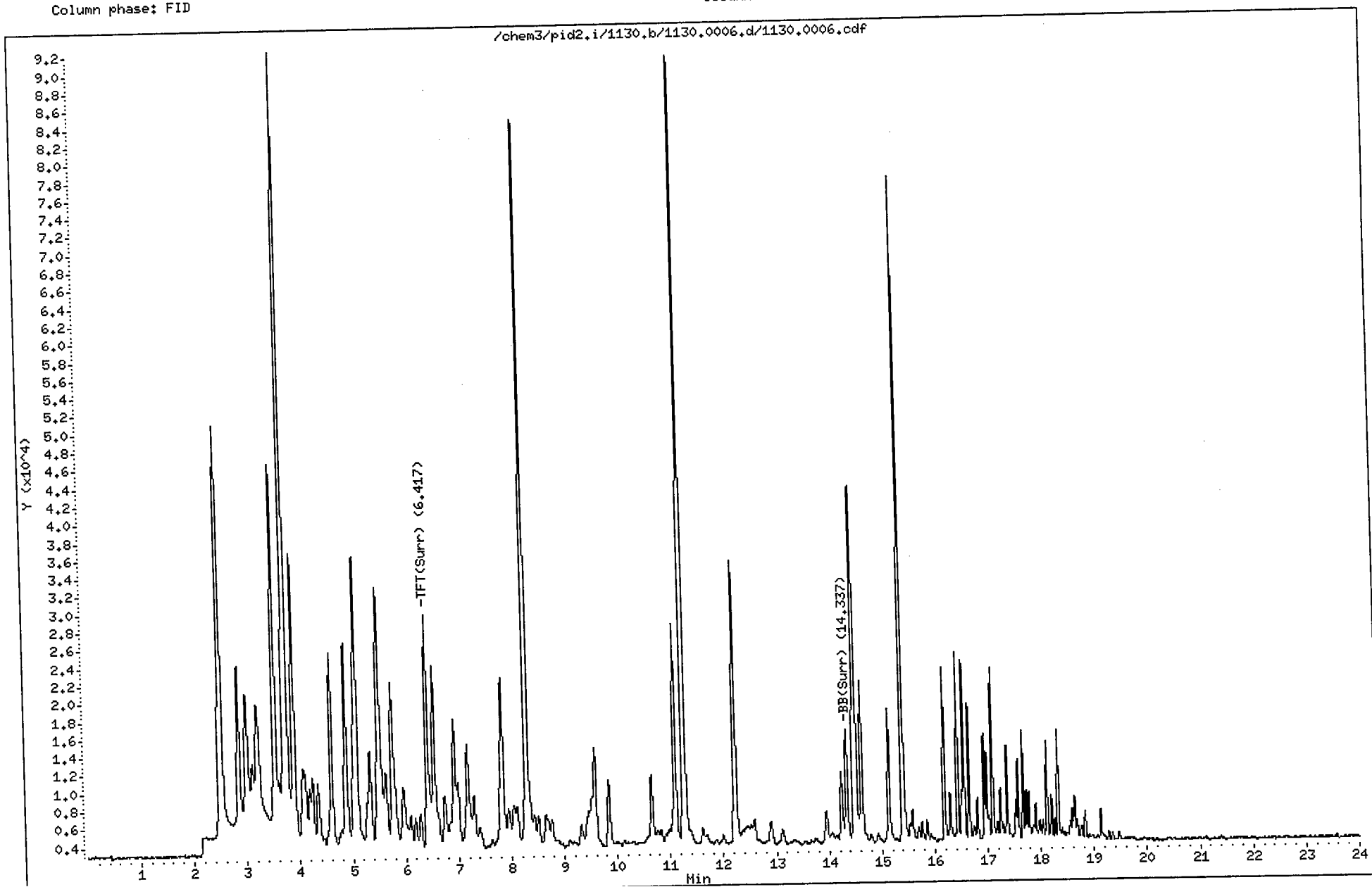
000227

Data File: /chem3/pid2.i/1130.b/1130.0006.d
Date : 30-NOV-2004 14:19
Client ID: LCSD113004
Sample Info: LCSD113004W1

Column phase: FID

Instrument: pid2.i

Operator: PC
Column diameter: 2.00



ANALYTICAL RESOURCES INCORPORATED

WATER TPHg SYSTEM MONITORING COMPOUND SUMMARY

Matrix: Water QC Report No: HJ95

LIMS ID	Lab ID	Client ID	TFT	BB	TOT OUT
04-20656MB	113004MB	Method Blank	99.9%	94.7%	0
04-20656LC	113004LC	Lab Control	98.8%	92.4%	0
04-20656LCD	113004LCD	Lab Control Dup	100%	91.8%	0
04-20656	HJ95A	MW-111	99.4%	105%	0
04-20656	HJ95A-MS	MW-111	104%	93.7%	0
04-20656	HJ95A-MSD	MW-111	101%	91.2%	0
04-20657	HJ95B	MW-101	96.6%	104%	0
04-20658	HJ95C	MW-105	99.6%	104%	0
04-20659	HJ95D	MW-106	94.8%	98.0%	0
04-20660	HJ95E	MW-107	95.8%	96.4%	0
04-20661	HJ95F	MW-202	101%	96.9%	0
04-20662	HJ95G	MW-102	95.3%	104%	0
04-20663	HJ95H	MW-104	99.5%	96.0%	0
04-20664	HJ95I	MW-103	98.5%	104%	0
04-20665	HJ95J	MW-108	100%	102%	0
04-20666	HJ95K	MW-112	100%	104%	0
04-20667	HJ95L	MW-109	100%	108%	0
04-20668	HJ95M	MW-110	95.9%	103%	0
04-20669	HJ95N	Trip Blank	105%	104%	0

	MB/LCS QC LIMITS	SAMPLE QC LIMITS
(TFT) = Trifluorotoluene	(66-129)	(31-139)
(BB) = Bromobenzene	(72-118)	(38-141)

Limits Updated - 09/20/04

\# Column to be used to flag recovery values

* Values outside of required QC limits

D System Monitoring Compound diluted out

ANALYTICAL RESOURCES INCORPORATED

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

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

Data Release Authorized:
Reported: 12/03/04

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result mg/L
MB-112904	Method Blank	11/29/04	12/02/04	1.0	Diesel	< 0.25 U
04-20656					Motor Oil	< 0.50 U
					HC ID	---
					o-Terphenyl	101%
HJ95A	MW-111	11/29/04	12/02/04	1.0	Diesel	< 0.25 U
04-20656					Motor Oil	< 0.50 U
					HC ID	---
					o-Terphenyl	70.4%
HJ95B	MW-101	11/29/04	12/02/04	1.0	Diesel	< 0.25 U
04-20657					Motor Oil	< 0.50 U
					HC ID	---
					o-Terphenyl	88.0%
HJ95C	MW-105	11/29/04	12/03/04	1.0	Diesel	< 0.25 U
04-20658					Motor Oil	< 0.50 U
					HC ID	---
					o-Terphenyl	110%
HJ95D	MW-106	11/29/04	12/03/04	1.0	Diesel	< 0.25 U
04-20659					Motor Oil	< 0.50 U
					HC ID	---
					o-Terphenyl	96.0%
HJ95E	MW-107	11/29/04	12/03/04	1.0	Diesel	< 0.25 U
04-20660					Motor Oil	< 0.50 U
					HC ID	---
					o-Terphenyl	90.2%
HJ95F	MW-202	11/29/04	12/03/04	1.0	Diesel	< 0.25 U
04-20661					Motor Oil	< 0.50 U
					HC ID	---
					o-Terphenyl	98.2%
HJ95G	MW-102	11/29/04	12/03/04	1.0	Diesel	< 0.25 U
04-20662					Motor Oil	< 0.50 U
					HC ID	---
					o-Terphenyl	80.7%
HJ95H	MW-104	11/29/04	12/03/04	1.0	Diesel	< 0.25 U
04-20663					Motor Oil	< 0.50 U
					HC ID	---
					o-Terphenyl	77.3%

ANALYTICAL RESOURCES INCORPORATED

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

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

Data Release Authorized:
Reported: 12/03/04

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result mg/L
HJ95I	MW-103	11/29/04	12/03/04	1.0	Diesel	< 0.25 U
04-20664					Motor Oil	< 0.50 U
					HC ID	---
					o-Terphenyl	96.0%
HJ95J	MW-108	11/29/04	12/03/04	1.0	Diesel	< 0.25 U
04-20665					Motor Oil	< 0.50 U
					HC ID	---
					o-Terphenyl	91.6%
HJ95K	MW-112	11/29/04	12/03/04	1.0	Diesel	< 0.25 U
04-20666					Motor Oil	< 0.50 U
					HC ID	---
					o-Terphenyl	88.9%
HJ95L	MW-109	11/29/04	12/03/04	1.0	Diesel	< 0.25 U
04-20667					Motor Oil	< 0.50 U
					HC ID	---
					o-Terphenyl	90.2%
HJ95M	MW-110	11/29/04	12/03/04	1.0	Diesel	< 0.25 U
04-20668					Motor Oil	< 0.50 U
					HC ID	---
					o-Terphenyl	88.0%

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 Inc.
TPH Quantitation Report

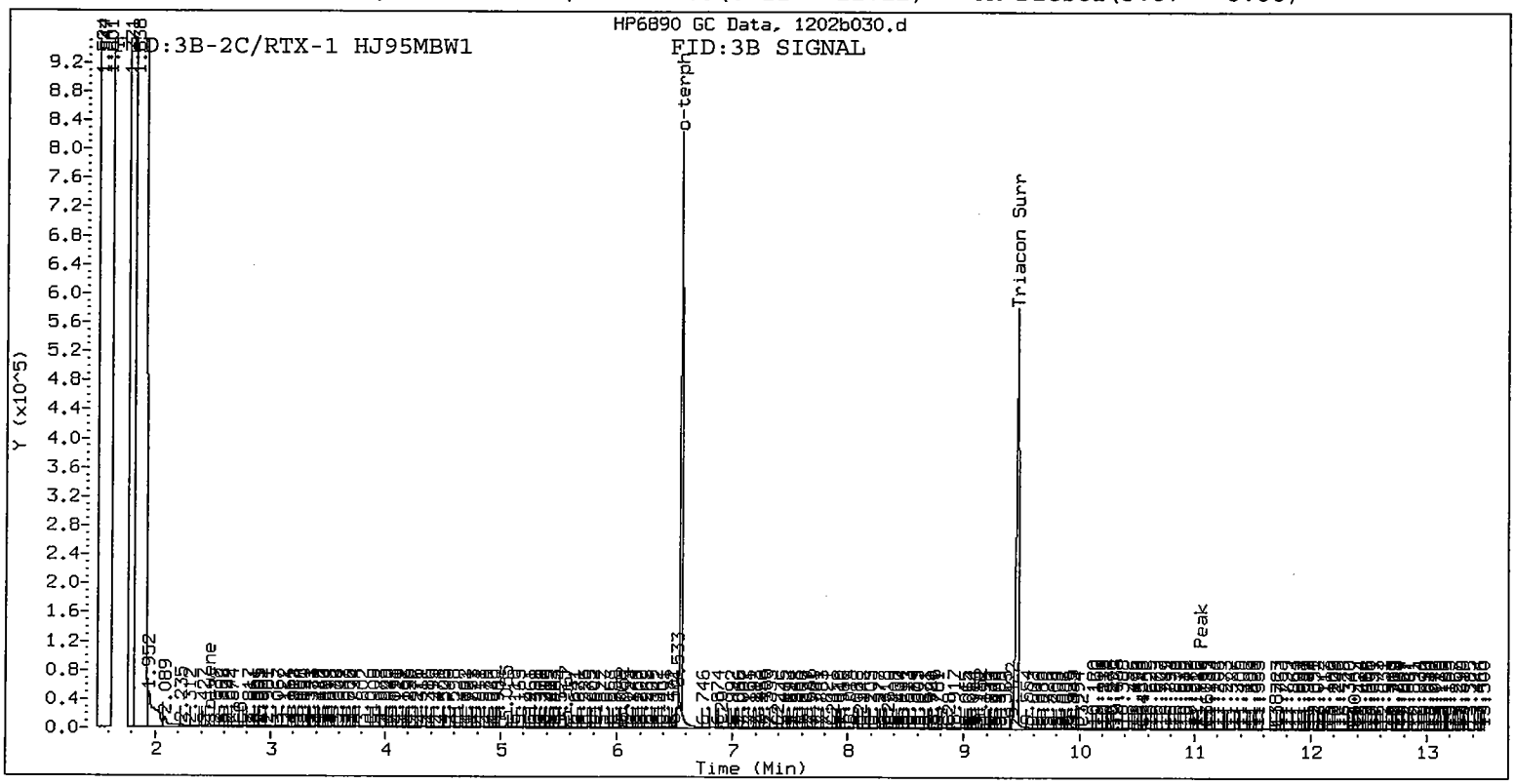
Data file: /chem3/fid3b.i/20041202.b/1202b030.d
Method: /chem3/fid3b.i/20041202.b/acidsilfid3b.m
Instrument: fid3b.i
Operator: AR
Report Date: 12/03/2004
Macro: 01-DEC-2004
Calibration Dates: Gas:11-JUN-2004 Diesel:01-DEC-2004 M.Oil:20-NOV-2004
OR.MOIL:20-NOV-2004 BUNKERC:12-AUG-2004

ARI ID: HJ95MBW1
Client ID:
Injection: 02-DEC-2004 21:45
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.468	0.017	3757	6681	GAS (Tol-C12)	54456	8
C8	2.747	0.014	455	823	DIESEL (C12-C24)	241704	17
C10	3.884	0.011	641	802	M.OIL (C24-C38)	249062	26
C12	4.629	-0.005	422	1135			
C14	5.246	-0.001	483	1038			
C16	5.822	0.001	629	1572			
C18	6.365	-0.006	1125	1503	OR.MOIL (C28-C40)	246076	26
C20	6.909	0.018	3502	4659			
C22	7.399	0.006	522	1169			
C24	7.876	0.001	765	1523			
C25	8.111	0.001	730	1544			
C26	8.360	0.017	2383	3090			
C28	8.874	-0.004	922	2067			
C32	10.028	0.008	1583	8757			
C34	10.558	-0.022	1292	2339	BUNKERC (C10-C38)	511399	264
Filter Peak	11.058	-0.001	1482	3782			
C36	11.109	-0.006	1277.0	729	o-Terph Surrogate Rec = 100.9%		(645601)
C38	11.708	0.033	1211.0	3582	Triacon Surrogate Rec = 118.2%		(730262)
C40	12.379	0.015	1026	2088			
o-terph	6.554	-0.002	793642	645601			
Triacon Surr	9.463	0.002	572594	730262			

Range Times: NW Diesel(4.634 - 7.874) AK102(3.87 - 8.11) Jet A(3.87 - 6.37)
NW M.Oil(7.87 - 11.67) AK103(8.11 - 11.12) OR Diesel(3.87 - 8.88)



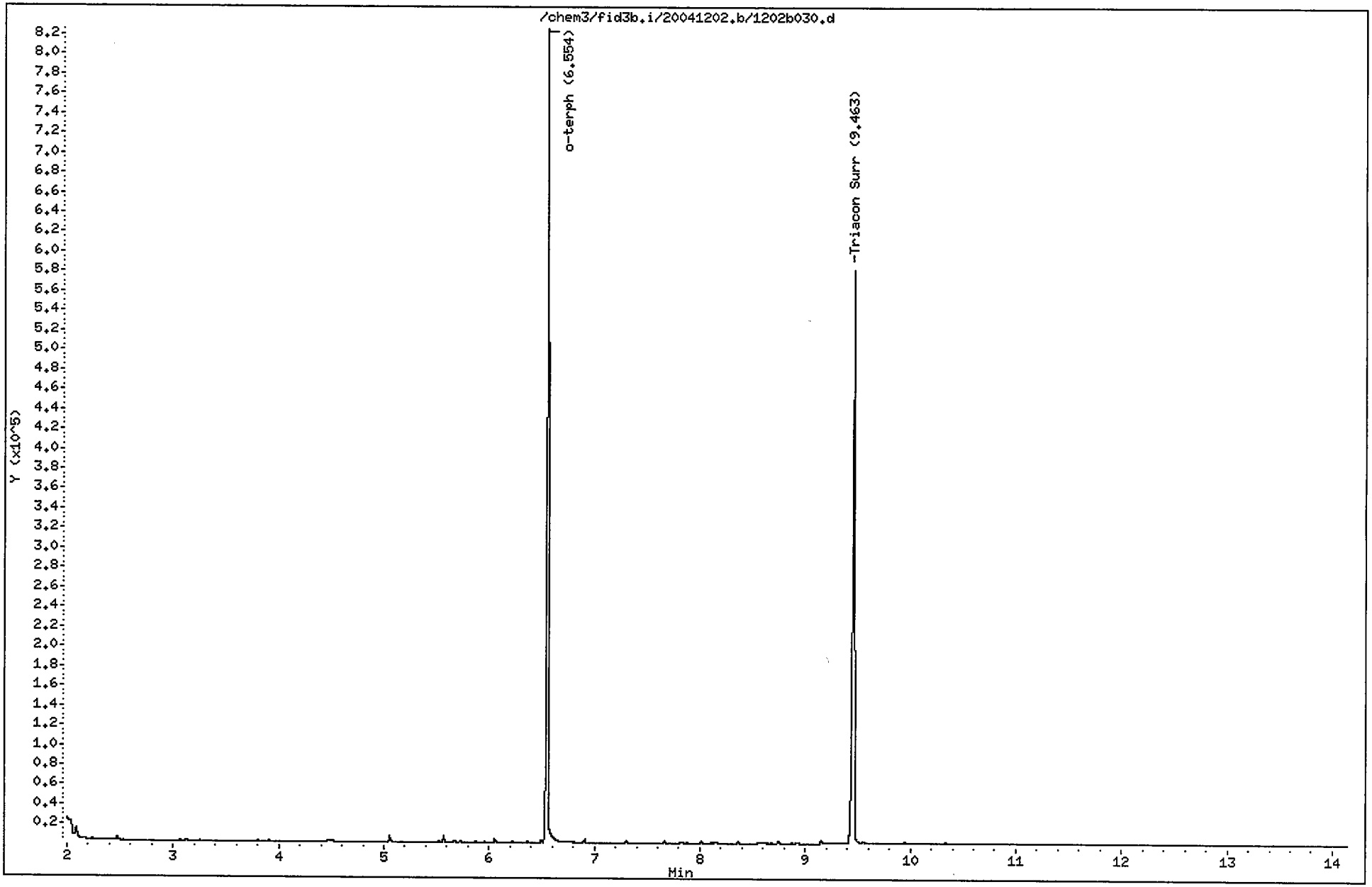
000232

Data File: /chem3/fid3b.i/20041202.b/1202b030.d
Date : 02-DEC-2004 21:45
Client ID:
Sample Info: HJ95MBW1

Instrument: fid3b.i

Operator: AR
Column diameter: 2.00

Column phase: RTX-1



Analytical Resources Inc.
TPH Quantitation Report

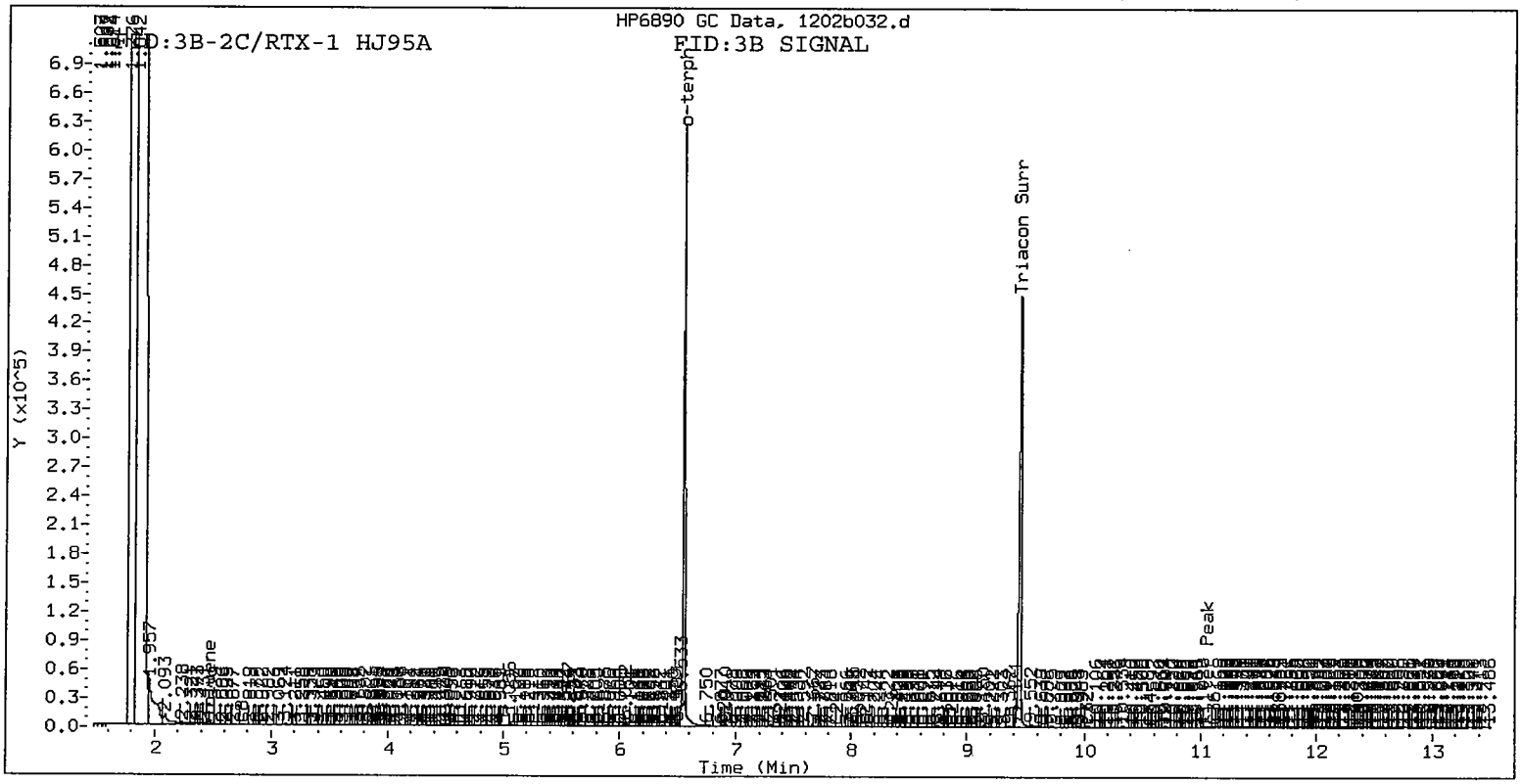
Data file: /chem3/fid3b.i/20041202.b/1202b032.d
Method: /chem3/fid3b.i/20041202.b/acidsilfid3b.m
Instrument: fid3b.i
Operator: AR
Report Date: 12/03/2004
Macro: 01-DEC-2004
Calibration Dates: Gas:11-JUN-2004 Diesel:01-DEC-2004 M.Oil:20-NOV-2004
OR.MOIL:20-NOV-2004 BUNKERC:12-AUG-2004

ARI ID: HJ95A
Client ID:
Injection: 02-DEC-2004 22:31
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.472	0.020	4227	6699	GAS (Tol-C12)	59492	8
C8	2.748	0.016	489	1727	DIESEL (C12-C24)	205771	15
C10	3.883	0.010	673	963	M.OIL (C24-C38)	171925	18
C12	4.631	-0.003	483	1178			
C14	5.263	0.015	536	1612			
C16	5.827	0.006	573	1355			
C18	6.365	-0.005	853	1392	OR.MOIL (C28-C40)	171645	18
C20	6.903	0.011	1229	1109			
C22	7.387	-0.006	450	203			
C24	7.879	0.004	594	1709			
C25	8.114	0.004	562	1361			
C26	8.360	0.017	2247	3044			
C28	8.873	-0.005	740	1920			
C32	10.027	0.007	953	4236			
C34	10.570	-0.010	649	431	BUNKERC (C10-C38)	402588	208
Filter Peak	11.055	-0.004	1068	3499			
C36	11.127	0.012	801.0	1557	o-Terph Surrogate Rec = 70.5%		(451064)
C38	11.686	0.012	924.0	895	Triacon Surrogate Rec = 80.9%		(500069)
C40	12.359	-0.005	913	1009			
o-terph	6.553	-0.004	599820	451064			
Triacon Surr	9.456	-0.005	440888	500069			

Range Times: NW Diesel(4.634 - 7.874) AK102(3.87 - 8.11) Jet A(3.87 - 6.37)
NW M.Oil(7.87 - 11.67) AK103(8.11 - 11.12) OR Diesel(3.87 - 8.88)



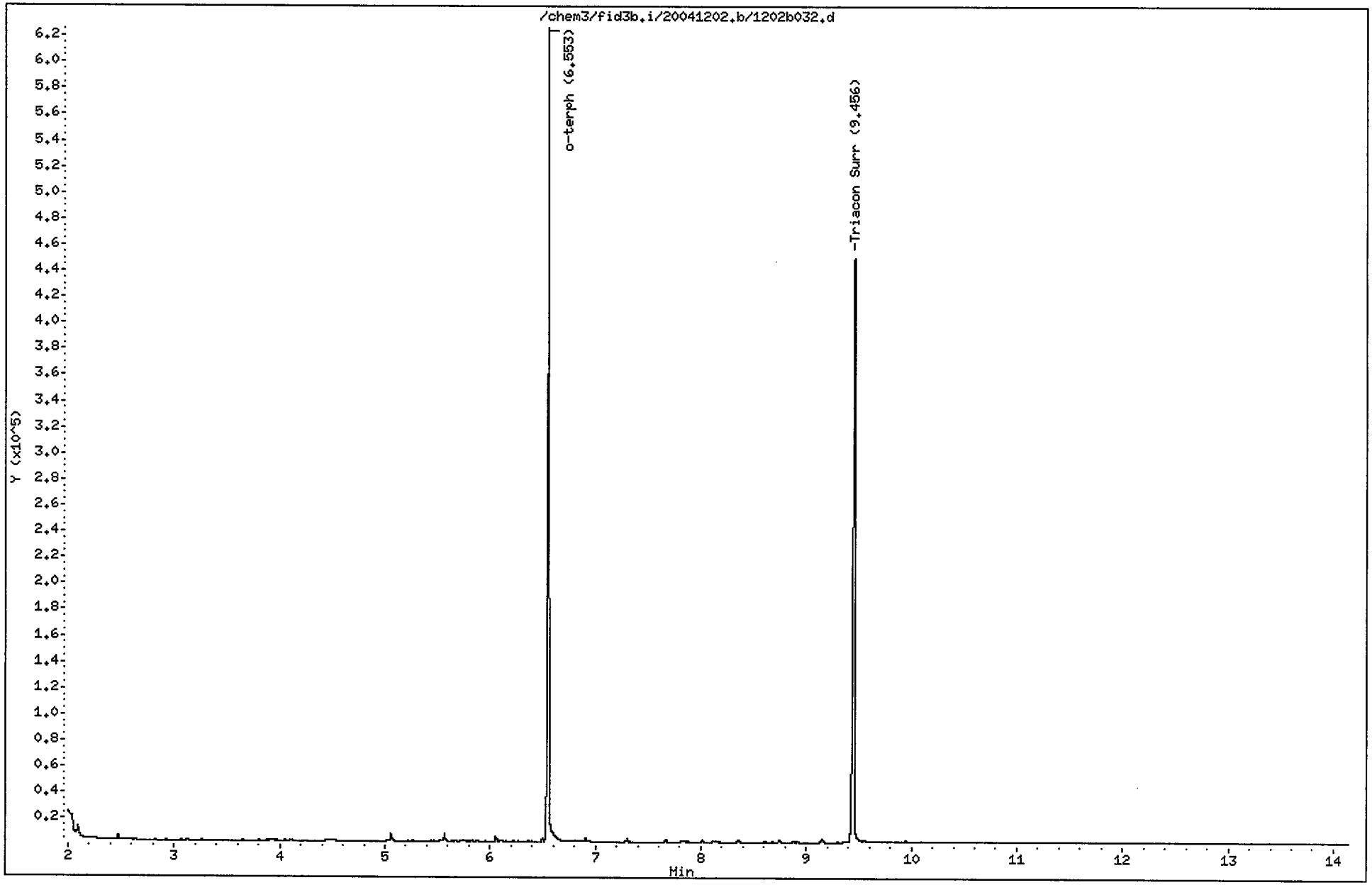
000234

Data File: /chem3/fid3b.i/20041202.b/1202b032.d
Date : 02-DEC-2004 22:31
Client ID:
Sample Info: HJ95A

Instrument: fid3b.i

Operator: AR
Column diameter: 2.00

Column phase: RTX-1



Analytical Resources Inc.
TPH Quantitation Report

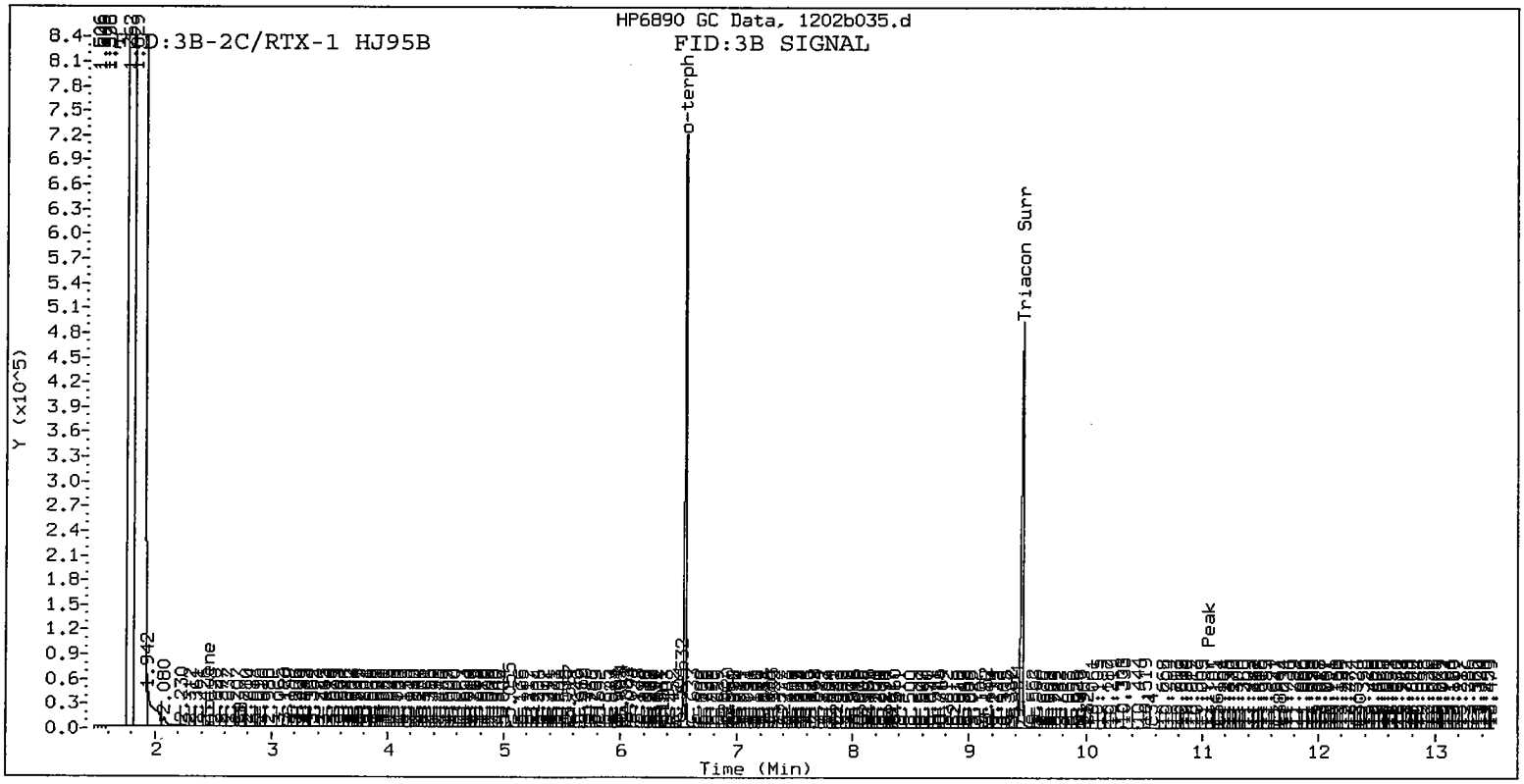
Data file: /chem3/fid3b.i/20041202.b/1202b035.d
Method: /chem3/fid3b.i/20041202.b/acidsilfid3b.m
Instrument: fid3b.i
Operator: AR
Report Date: 12/03/2004
Macro: 01-DEC-2004
Calibration Dates: Gas:11-JUN-2004 Diesel:01-DEC-2004 M.Oil:20-NOV-2004
OR.MOIL:20-NOV-2004 BUNKERC:12-AUG-2004

ARI ID: HJ95B
Client ID:
Injection: 02-DEC-2004 23:39
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.464	0.012	3890	6266	GAS (Tol-C12)	59146	8
C8	2.744	0.012	418	970	DIESEL (C12-C24)	231844	17 ug/L
C10	3.880	0.006	712	1024	M.OIL (C24-C38)	237935	24
C12	4.634	0.000	465	619			
C14	5.255	0.008	734	1990			
C16	5.816	-0.005	2233	4336			
C18	6.367	-0.004	3211	3409	OR.MOIL (C28-C40)	217830	23
C20	6.901	0.009	1185	1243			
C22	7.405	0.013	1007	1601			
C24	7.869	-0.005	996	1841			
C25	8.117	0.007	841	1492			
C26	8.338	-0.005	871	1199			
C28	8.873	-0.005	1166	3270			
C32	10.018	-0.001	1292	2973			
C34	10.566	-0.014	1164	5498	BUNKERC (C10-C38)	496179	256
Filter Peak	11.056	-0.003	1146	2911			
C36	11.129	0.013	990.0	1894	o-Terph Surrogate Rec = 87.9% ✓		(562455)
C38	11.671	-0.003	1003.0	988	Triacon Surrogate Rec = 90.6%		(559672)
C40	12.356	-0.008	932	1197			
o-terph	6.558	0.002	701652	562455			
Triacon Surr	9.459	-0.002	485952	559672			

Range Times: NW Diesel(4.634 - 7.874) AK102(3.87 - 8.11) Jet A(3.87 - 6.37)
NW M.Oil(7.87 - 11.67) AK103(8.11 - 11.12) OR Diesel(3.87 - 8.88)



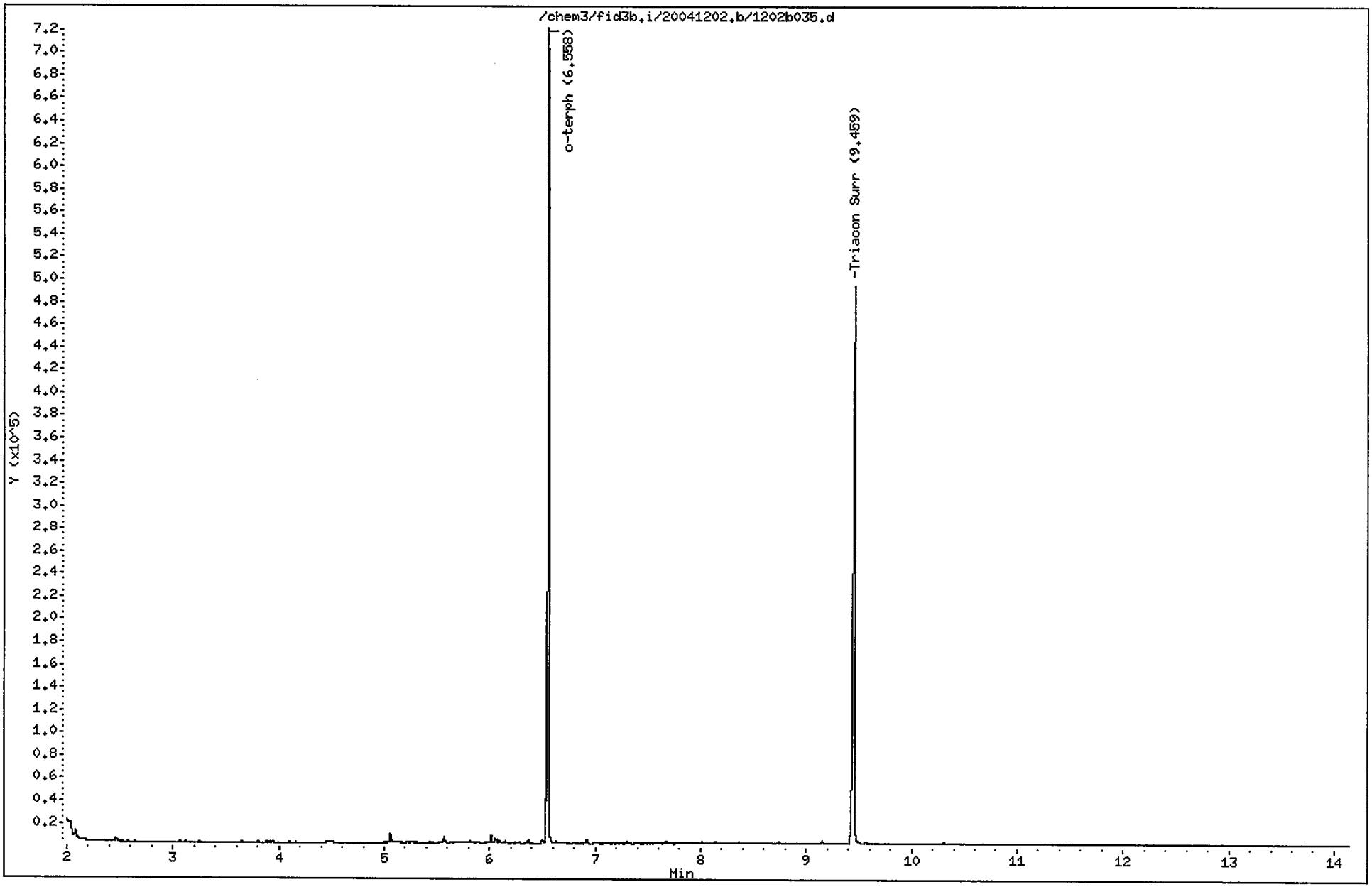
Data File: /chem3/fid3b.i/20041202.b/1202b035.d
Date : 02-DEC-2004 23:39
Client ID:
Sample Info: HJ95B

Column phase: RTX-1

Instrument: fid3b.i

Operator: AR
Column diameter: 2.00

000236



Analytical Resources Inc.
TPH Quantitation Report

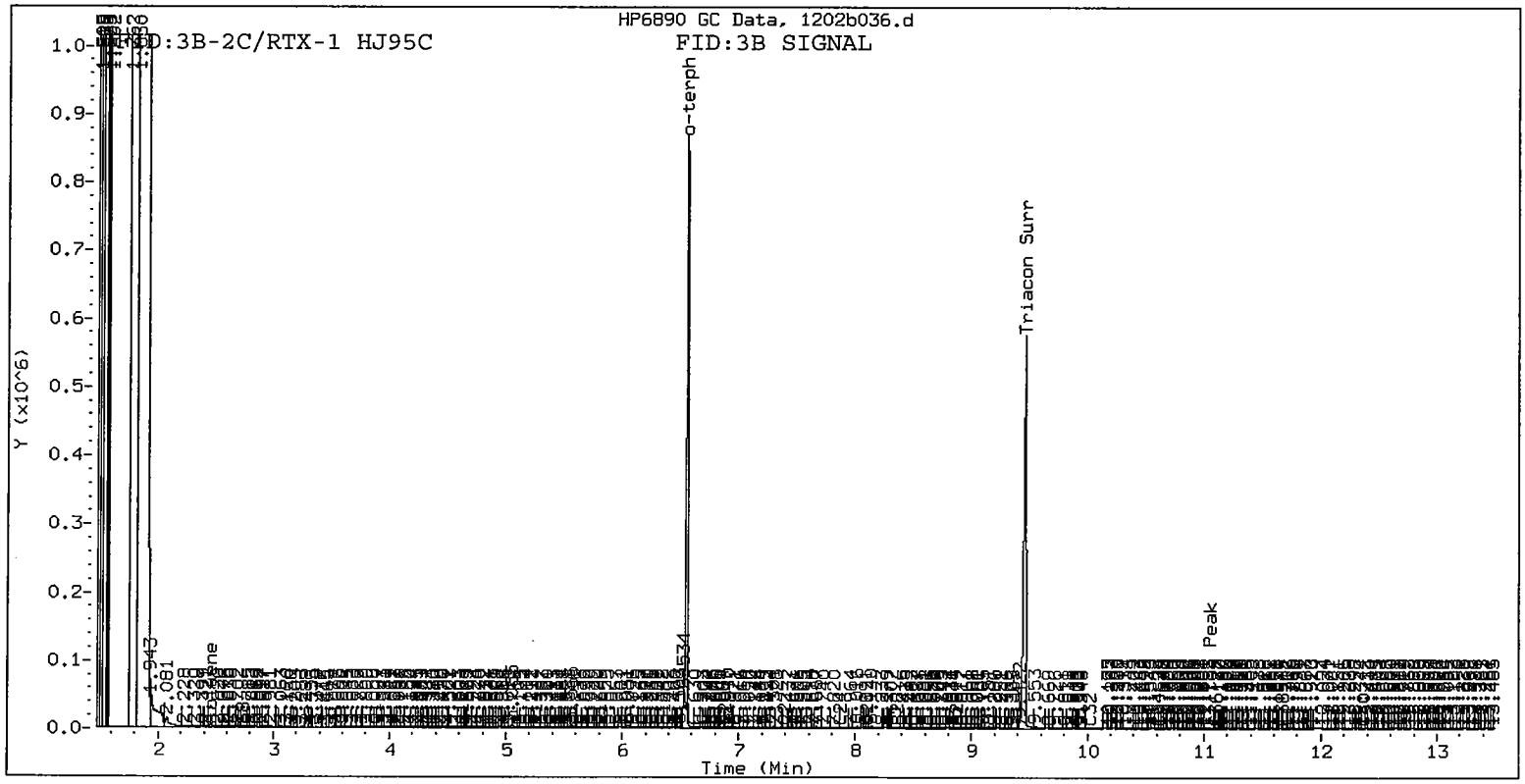
Data file: /chem3/fid3b.i/20041202.b/1202b036.d
Method: /chem3/fid3b.i/20041202.b/acidsilfid3b.m
Instrument: fid3b.i
Operator: AR
Report Date: 12/03/2004
Macro: 01-DEC-2004
Calibration Dates: Gas:11-JUN-2004 Diesel:01-DEC-2004 M.Oil:20-NOV-2004
OR.MOIL:20-NOV-2004 BUNKERC:12-AUG-2004

ARI ID: HJ95C
Client ID:
Injection: 03-DEC-2004 00:02
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.462	0.011	5609	8265	GAS (Tol-C12)	57596	8
C8	2.743	0.010	422	950	DIESEL (C12-C24)	205267	15
C10	3.881	0.008	669	841	M.OIL (C24-C38)	164315	17
C12	4.628	-0.006	407	418			
C14	5.259	0.012	637	1993			
C16	5.819	-0.002	1025	1794			
C18	6.365	-0.006	1223	1444	OR.MOIL (C28-C40)	164634	18
C20	6.887	-0.005	724	641			
C22	7.395	0.002	463	1030			
C24	7.876	0.002	543	1906			
C25	8.109	0.000	452	466			
C26	8.361	0.018	2007	2730			
C28	8.875	-0.002	651	1567			
C32	10.031	0.011	905	5785			
C34	10.608	0.028	597	909	BUNKERC (C10-C38)	393266	203
Filter Peak	11.056	-0.003	958	3575			
C36	11.107	-0.009	744.0	750	o-Terph Surrogate Rec = 109.5%		(700736)
C38	11.674	0.000	882.0	837	Triacon Surrogate Rec = 114.9%		(709936)
C40	12.373	0.009	886	1589			
o-terph	6.556	0.000	846415	700736			
Triacon Surr	9.464	0.002	565730	709936			

Range Times: NW Diesel(4.634 - 7.874) AK102(3.87 - 8.11) Jet A(3.87 - 6.37)
NW M.Oil(7.87 - 11.67) AK103(8.11 - 11.12) OR Diesel(3.87 - 8.88)



Data File: /chem3/fid3b.i/20041202.b/1202b036.d

Date : 03-DEC-2004 00:02

Client ID:

Sample Info: HJ95C

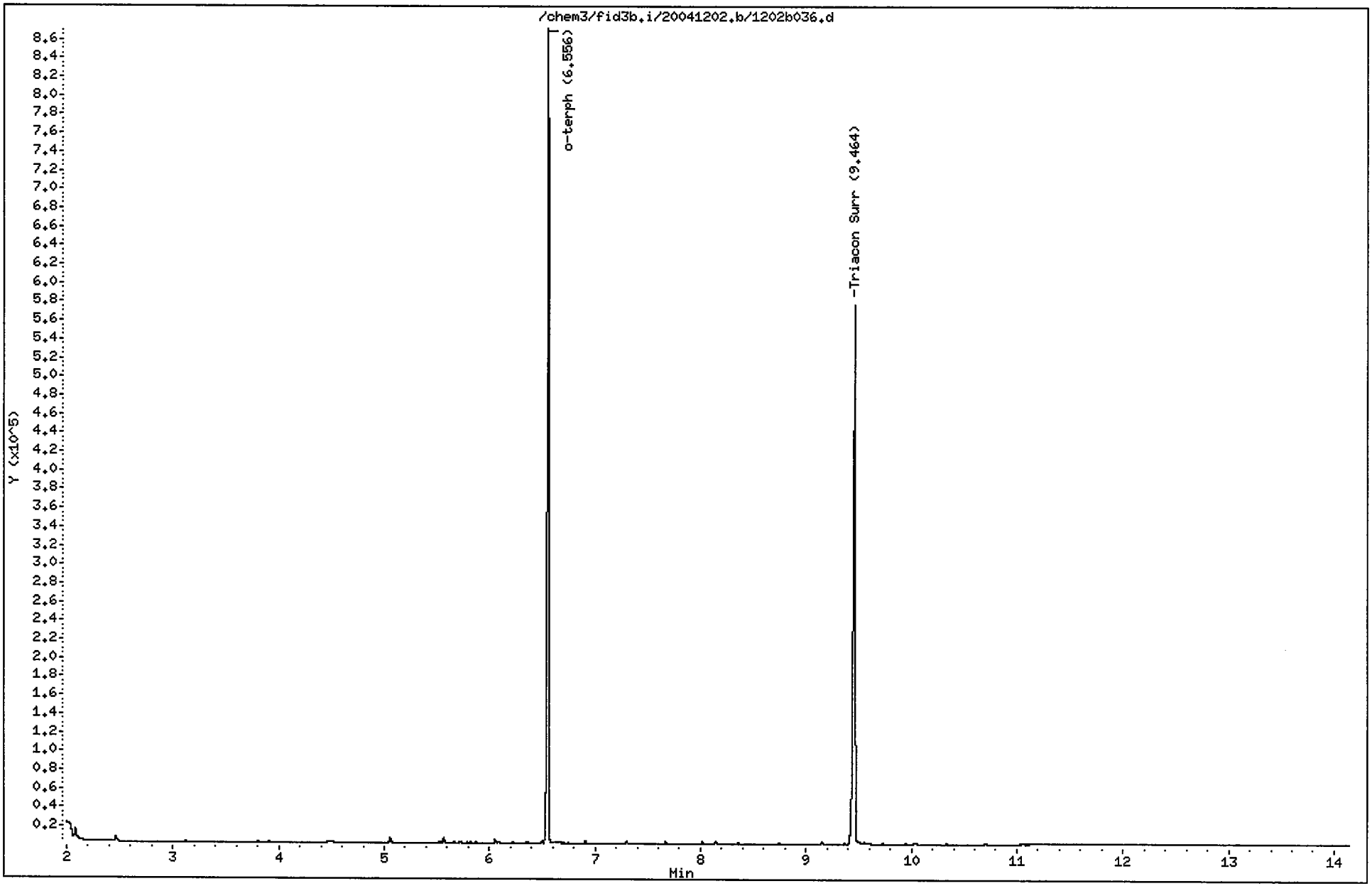
Column phase: RTX-1

Instrument: fid3b.i

Operator: AR

Column diameter: 2.00

000238



Analytical Resources Inc.
TPH Quantitation Report

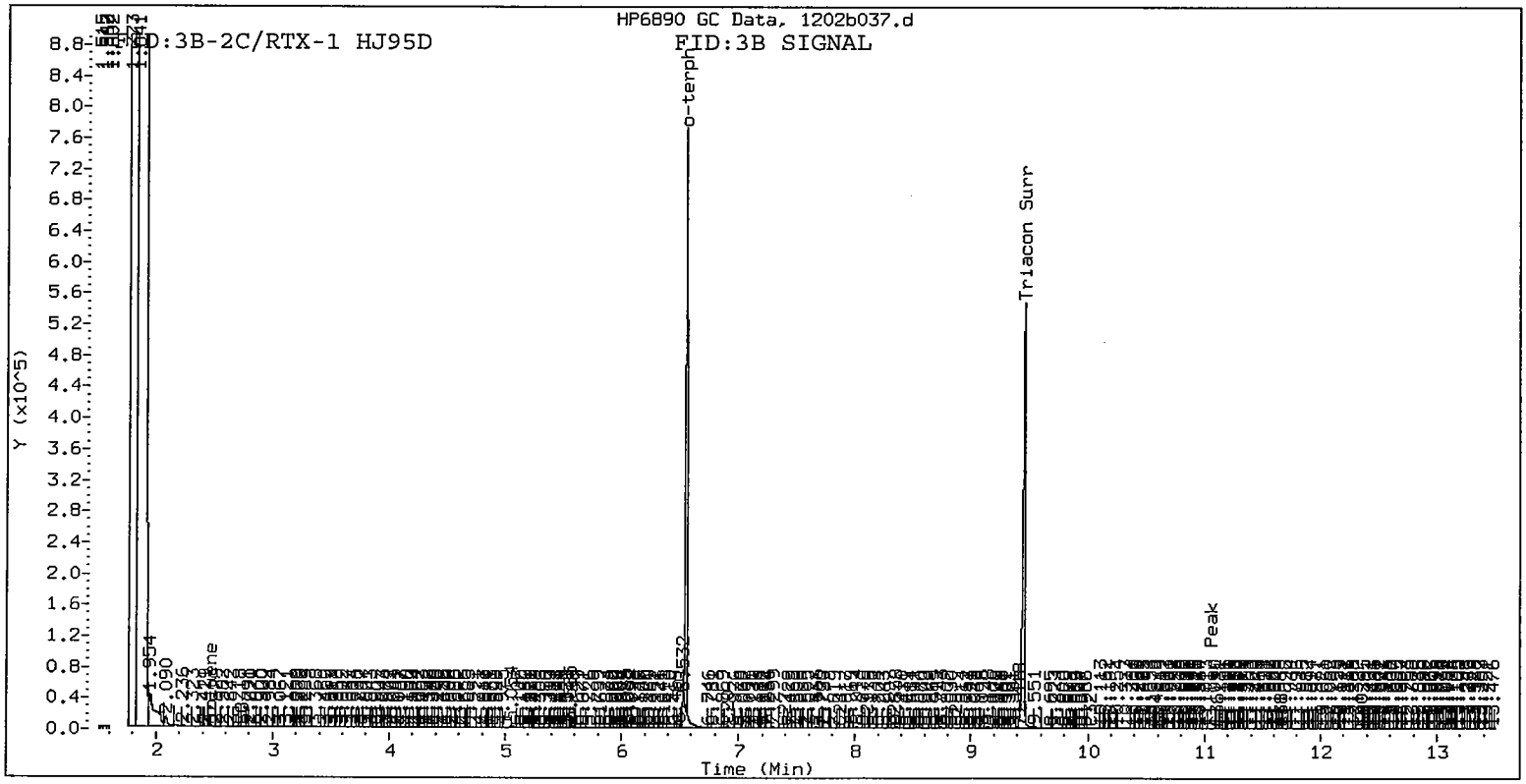
Data file: /chem3/fid3b.i/20041202.b/1202b037.d
Method: /chem3/fid3b.i/20041202.b/acidsilfid3b.m
Instrument: fid3b.i
Operator: AR
Report Date: 12/03/2004
Macro: 01-DEC-2004
Calibration Dates: Gas:11-JUN-2004 Diesel:01-DEC-2004 M.Oil:20-NOV-2004
OR.MOIL:20-NOV-2004 BUNKERC:12-AUG-2004

ARI ID: HJ95D
Client ID:
Injection: 03-DEC-2004 00:24
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.469	0.017	4534	6714	GAS (Tol-C12)	52568	7
C8	2.747	0.014	411	962	DIESEL (C12-C24)	245782	18
C10	3.881	0.008	654	1104	M.OIL (C24-C38)	186803	19
C12	4.632	-0.003	435	997			
C14	5.251	0.004	610	490			
C16	5.822	0.001	790	2006			
C18	6.364	-0.006	1033	1482	OR.MOIL (C28-C40)	181166	19
C20	6.909	0.017	3711	4878			
C22	7.401	0.008	542	969			
C24	7.875	0.001	590	1426			
C25	8.108	-0.002	580	930			
C26	8.348	0.005	621	1103			
C28	8.870	-0.007	843	2316			
C32	10.023	0.004	1045	5395			
C34	10.587	0.007	670	542	BUNKERC (C10-C38)	455021	235
Filter Peak	11.054	-0.005	1042	3408			
C36	11.110	-0.006	811.0	1135	o-Terph Surrogate Rec = 95.9%	(613422)	
C38	11.668	-0.006	928.0	385	Triacon Surrogate Rec = 106.1%	(655573)	
C40	12.364	0.000	921	656			
o-terph	6.554	-0.002	744008	613422			
Triacon Surr	9.459	-0.002	539107	655573			

Range Times: NW Diesel(4.634 - 7.874) AK102(3.87 - 8.11) Jet A(3.87 - 6.37)
NW M.Oil(7.87 - 11.67) AK103(8.11 - 11.12) OR Diesel(3.87 - 8.88)



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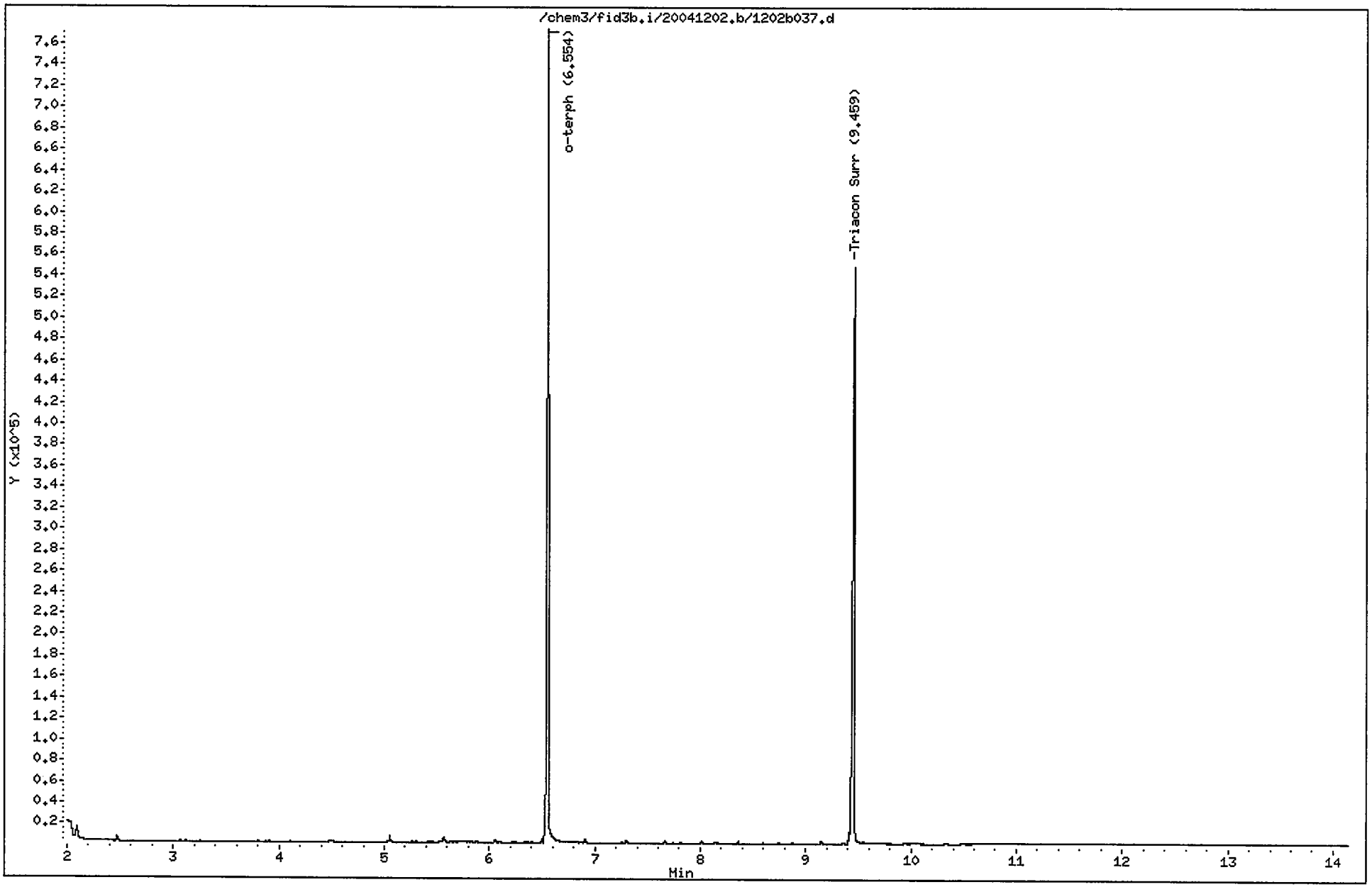
Data File: /chem3/fid3b.i/20041202.b/1202b037.d
Date : 03-DEC-2004 00:24
Client ID:
Sample Info: HJ95D

Instrument: fid3b.i

Operator: AR
Column phase: RTX-1
Column diameter: 2.00



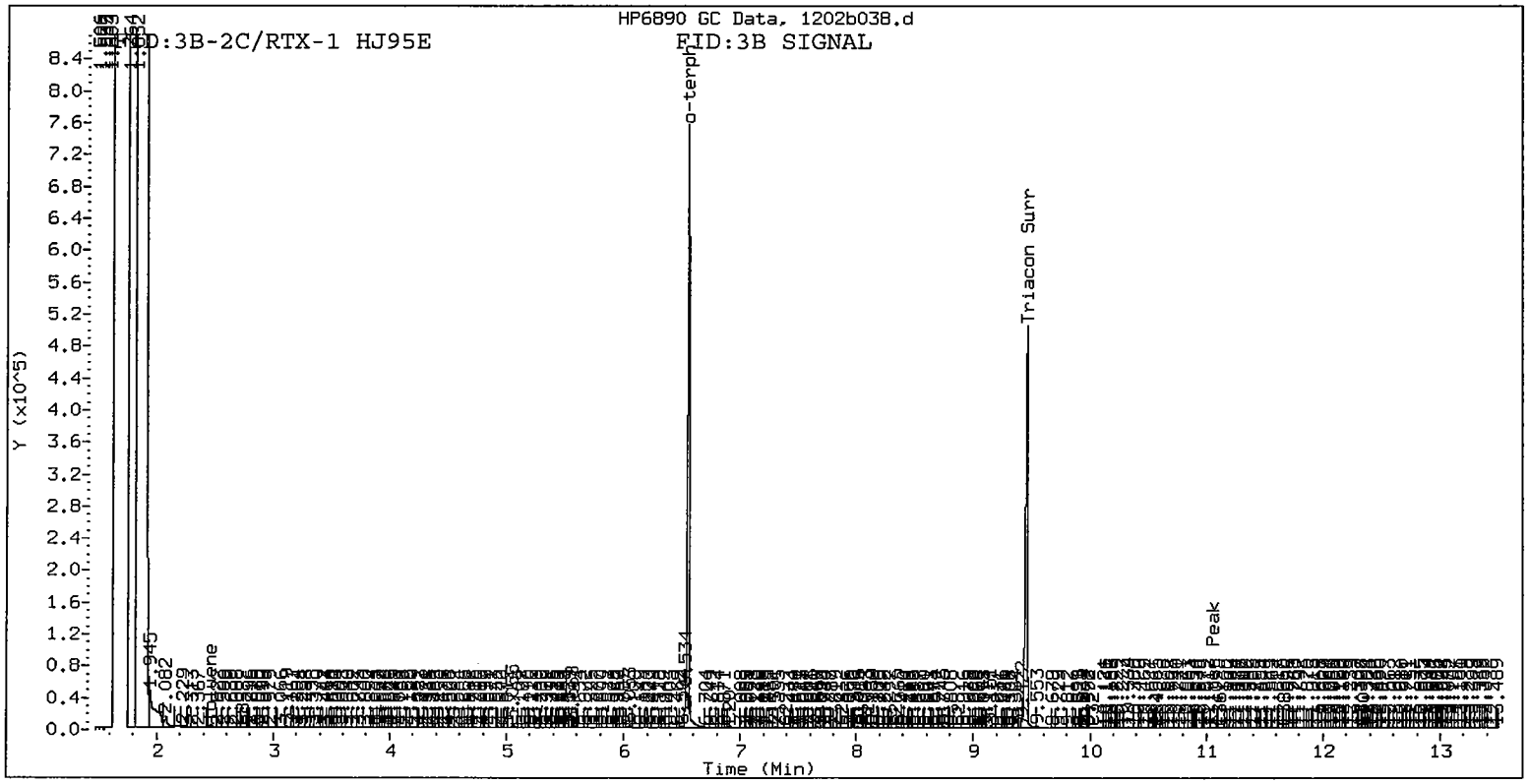
Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3b.i/20041202.b/1202b038.d ARI ID: HJ95E
Method: /chem3/fid3b.i/20041202.b/acidsilfid3b.m Client ID:
Instrument: fid3b.i Injection: 03-DEC-2004 00:47
Operator: AR
Report Date: 12/03/2004 Dilution Factor: 1
Macro: 01-DEC-2004
Calibration Dates: Gas:11-JUN-2004 Diesel:01-DEC-2004 M.Oil:20-NOV-2004
OR.MOIL:20-NOV-2004 BUNKERC:12-AUG-2004

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.463	0.011	4233	6690	GAS (Tol-C12)	56454	8
C8	2.744	0.011	415	1074	DIESEL (C12-C24)	263282	19
C10	3.882	0.009	736	1044	M.OIL (C24-C38)	205020	21
C12	4.629	-0.005	468	532			
C14	5.260	0.012	817	2277			
C16	5.822	0.001	913	2037			
C18	6.366	-0.004	1136	1802	OR.MOIL (C28-C40)	190697	20
C20	6.911	0.020	4495	7152			
C22	7.397	0.004	583	1903			
C24	7.877	0.003	683	2077			
C25	8.106	-0.004	680	1483			
C26	8.342	-0.001	712	1674			
C28	8.874	-0.004	942	2701			
C32	10.021	0.002	1194	5635			
C34	10.585	0.005	732	1328	BUNKERC (C10-C38)	493392	254
Filter Peak	11.057	-0.002	1077	3316			
C36	11.126	0.011	854.0	2596	o-Terph Surrogate Rec = 90.3%		(577627)
C38	11.673	-0.001	931.0	1139	Triacon Surrogate Rec = 101.3%		(625724)
C40	12.345	-0.019	909	922			
o-terph	6.555	-0.001	725667	577627			
Triacon Surr	9.460	-0.001	494567	625724			

Range Times: NW Diesel(4.634 - 7.874) AK102(3.87 - 8.11) Jet A(3.87 - 6.37)
NW M.Oil(7.87 - 11.67) AK103(8.11 - 11.12) OR Diesel(3.87 - 8.88)



Data File: /chem3/fid3b.i/20041202.b/1202b038.d

Date : 03-DEC-2004 00:47

Client ID:

Sample Info: HJ95E

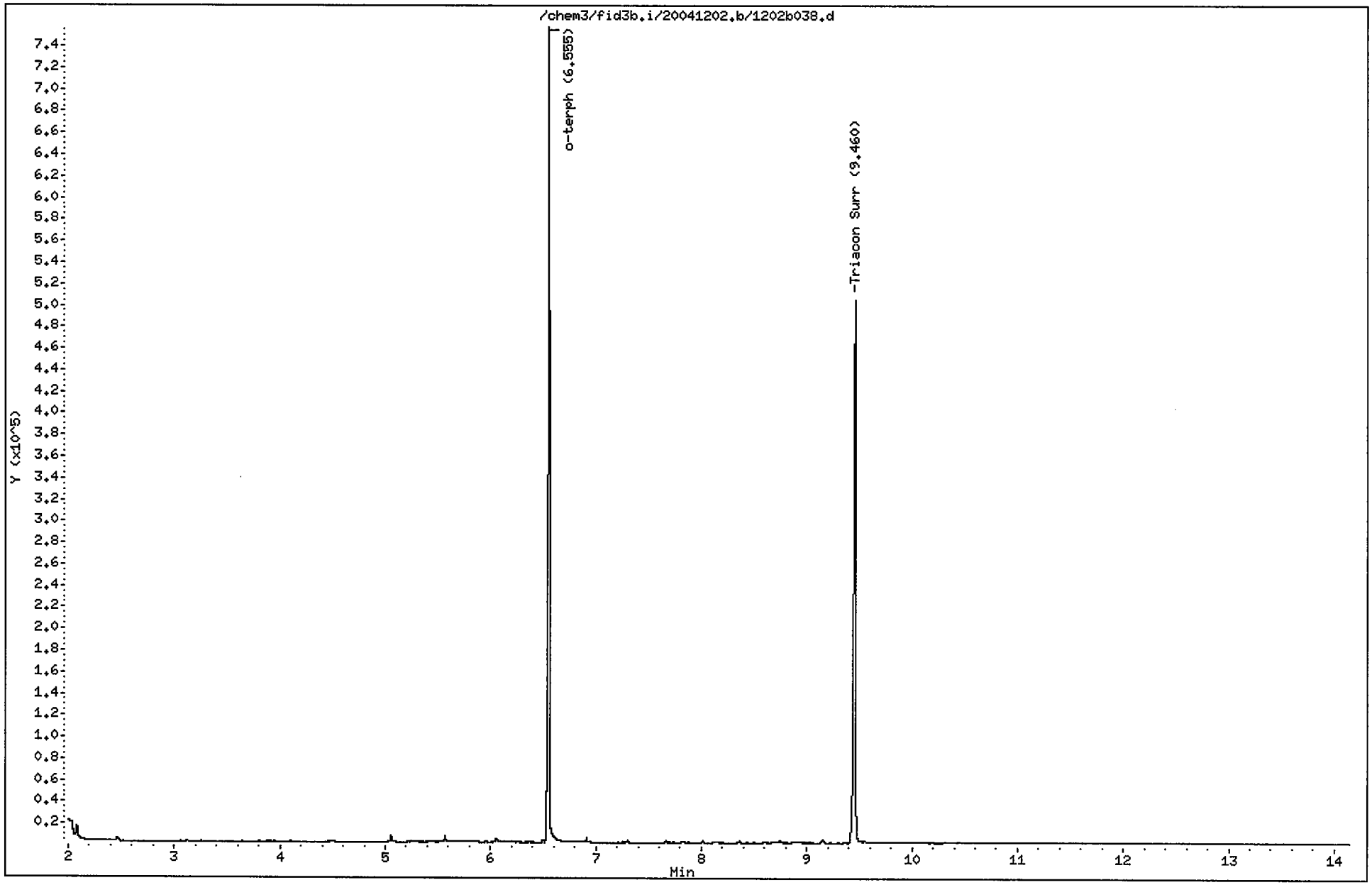
Column phase: RTX-1

Instrument: fid3b.i

Operator: AR

Column diameter: 2.00

000242



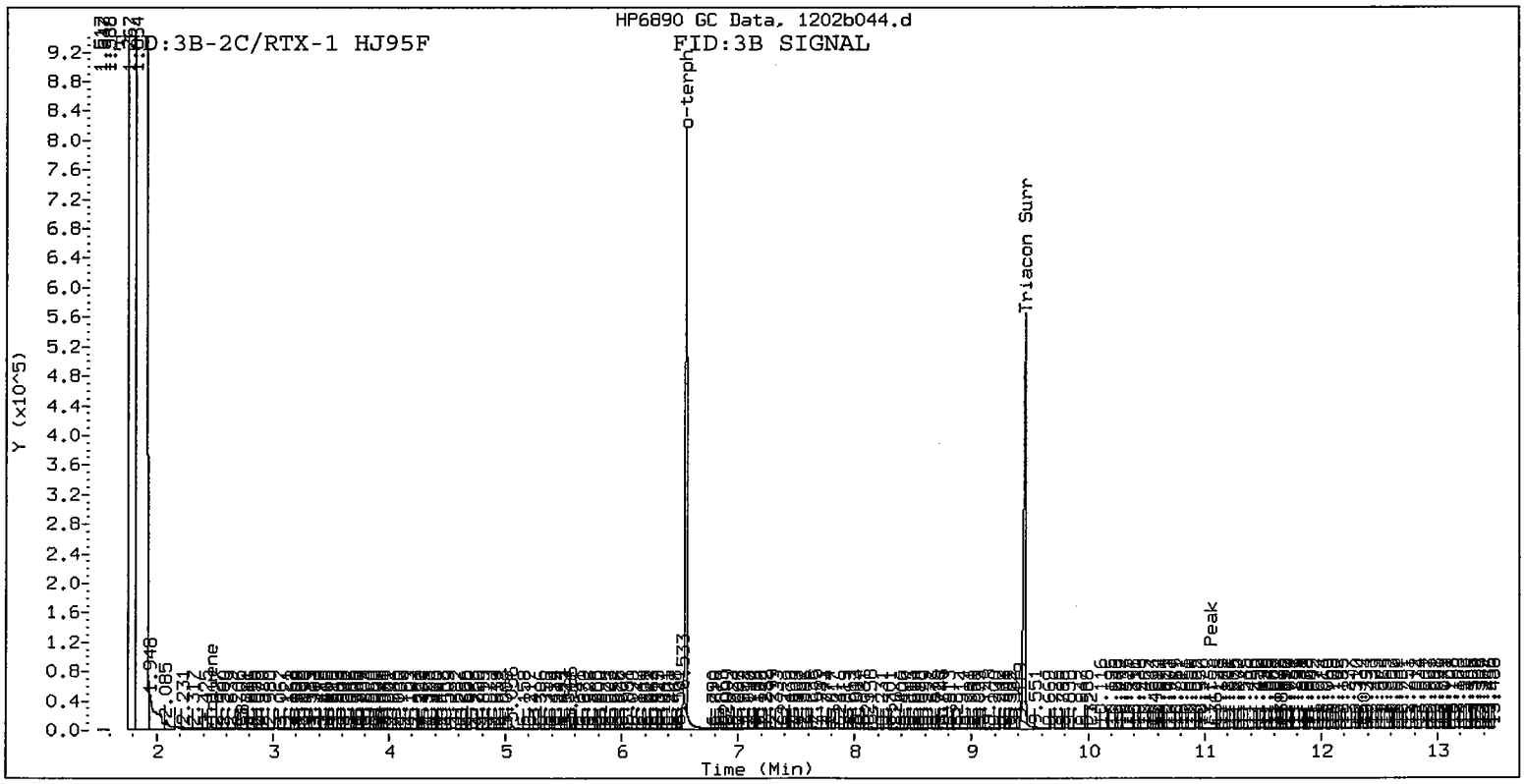
Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3b.i/20041202.b/1202b044.d ARI ID: HJ95F
Method: /chem3/fid3b.i/20041202.b/acidsilfid3b.m Client ID:
Instrument: fid3b.i Injection: 03-DEC-2004 03:04
Operator: AR
Report Date: 12/03/2004 Dilution Factor: 1
Macro: 01-DEC-2004
Calibration Dates: Gas:11-JUN-2004 Diesel:01-DEC-2004 M.Oil:20-NOV-2004
OR.MOIL:20-NOV-2004 BUNKERC:12-AUG-2004

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.465	0.014	5725	8412	GAS (Tol-C12)	62372	9
C8	2.747	0.014	435	1016	DIESEL (C12-C24)	250072	18
C10	3.882	0.009	645	813	M.OIL (C24-C38)	178385	18
C12	4.633	-0.002	459	1071			
C14	5.260	0.012	587	1607			
C16	5.827	0.006	601	1560			
C18	6.364	-0.006	1007	1570	OR.MOIL (C28-C40)	173195	19
C20	6.898	0.006	1156	1011			
C22	7.400	0.007	573	1481			
C24	7.878	0.003	590	1430			
C25	8.110	0.001	532	810			
C26	8.358	0.015	2161	3019			
C28	8.872	-0.006	737	1775			
C32	10.025	0.005	957	4939			
C34	10.580	0.000	638	774	BUNKERC (C10-C38)	452753	233
Filter Peak	11.056	-0.003	1042	5591			
C36	11.106	-0.010	783.0	445	o-Terph Surrogate Rec = 98.2%		(628361)
C38	11.661	-0.013	899.0	1401	Triacon Surrogate Rec = 108.6%		(671193)
C40	12.372	0.008	902	1350			
o-terph	6.554	-0.002	784670	628361			
Triacon Surr	9.459	-0.002	553494	671193			

Range Times: NW Diesel(4.634 - 7.874) AK102(3.87 - 8.11) Jet A(3.87 - 6.37)
NW M.Oil(7.87 - 11.67) AK103(8.11 - 11.12) OR Diesel(3.87 - 8.88)



Data File: /chem3/fid3b.i/20041202.b/1202b044.d

Date : 03-DEC-2004 03:04

Client ID:

Sample Info: HJ95F

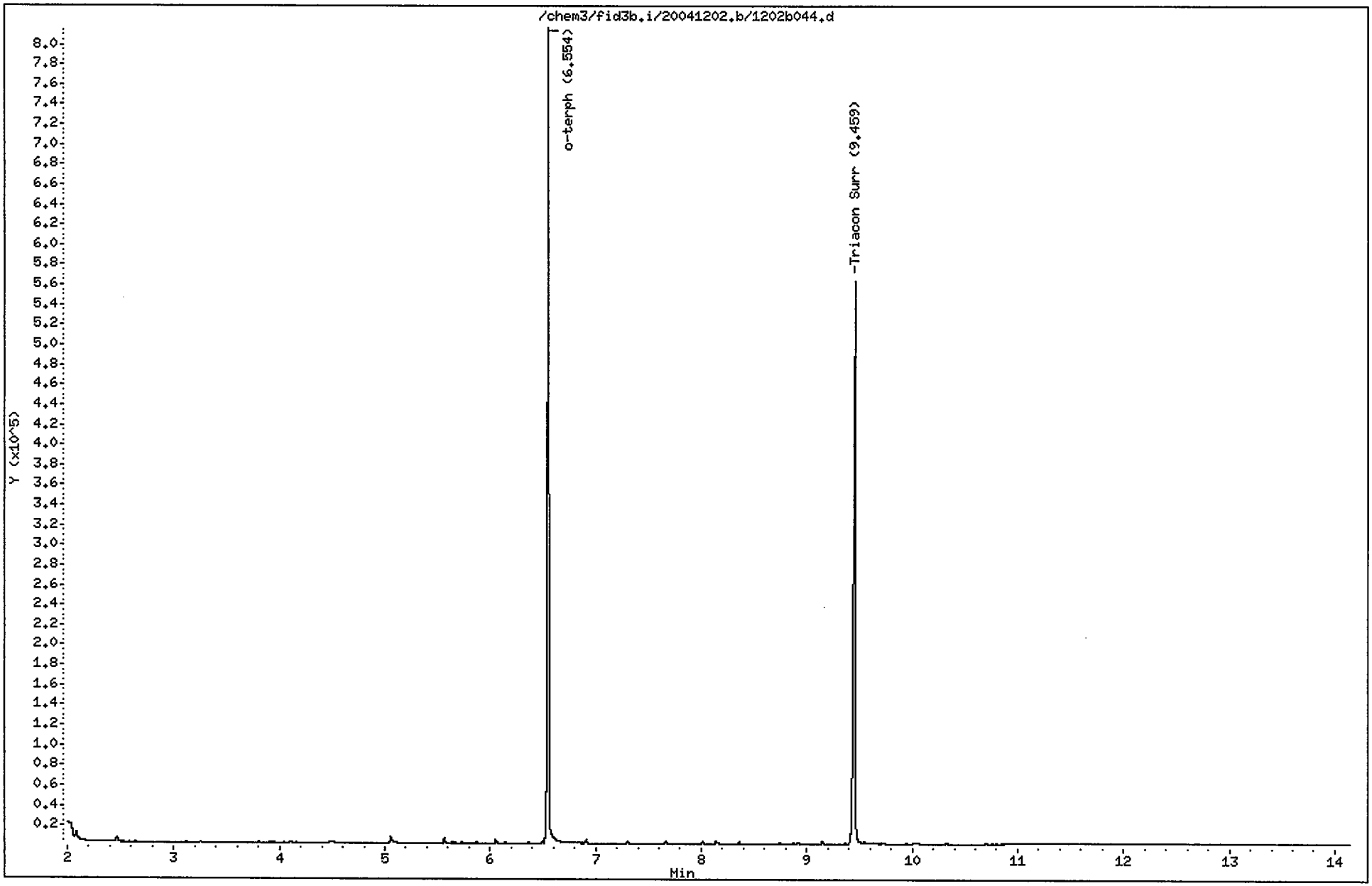
Column phase: RTX-1

Instrument: fid3b.i

Operator: AR

Column diameter: 2.00

000244



Analytical Resources Inc.
TPH Quantitation Report

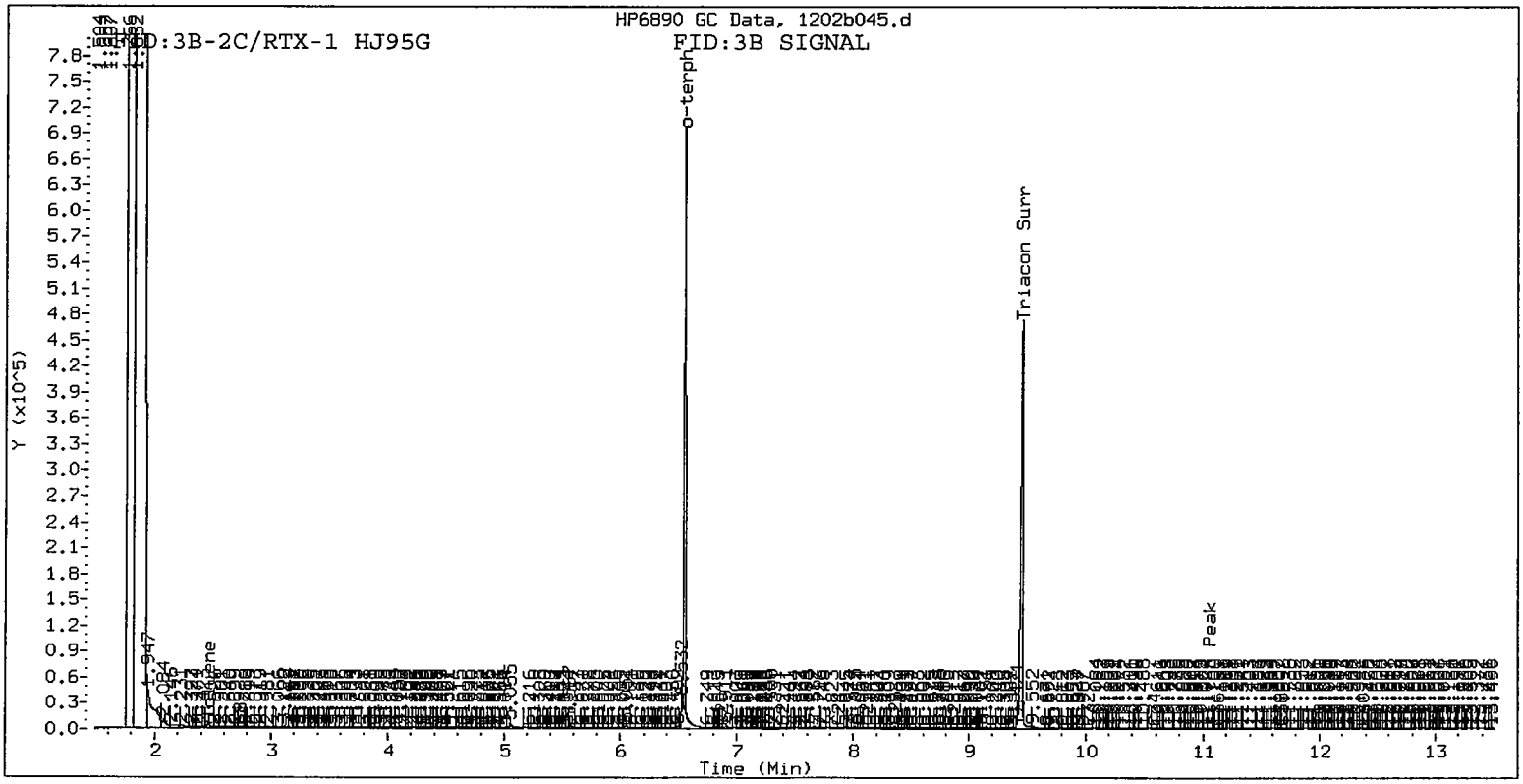
Data file: /chem3/fid3b.i/20041202.b/1202b045.d
Method: /chem3/fid3b.i/20041202.b/acidsilfid3b.m
Instrument: fid3b.i
Operator: AR
Report Date: 12/03/2004
Macro: 01-DEC-2004
Calibration Dates: Gas:11-JUN-2004 Diesel:01-DEC-2004 M.Oil:20-NOV-2004
OR.MOIL:20-NOV-2004 BUNKERC:12-AUG-2004

ARI ID: HJ95G
Client ID:
Injection: 03-DEC-2004 03:27
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.465	0.013	6170	8787	GAS (Tol-C12)	56054	8
C8	2.743	0.011	368	946	DIESEL (C12-C24)	208004	15
C10	3.883	0.010	589	841	M.OIL (C24-C38)	189950	19
C12	4.653	0.019	355	593			
C14	5.262	0.014	562	1923			
C16	5.825	0.004	534	1131			
C18	6.365	-0.005	836	1189	OR.MOIL (C28-C40)	191604	21
C20	6.873	-0.019	621	673			
C22	7.403	0.010	471	1412			
C24	7.879	0.004	540	1325			
C25	8.117	0.008	495	1139			
C26	8.360	0.017	2068	2841			
C28	8.875	-0.002	706	1981			
C32	10.028	0.008	988	3043			
C34	10.591	0.011	733	2164	BUNKERC (C10-C38)	419662	216
Filter Peak	11.056	-0.003	1119	2842			
C36	11.130	0.014	899.0	1416	o-Terph Surrogate Rec = 80.6%		(515892)
C38	11.676	0.002	1004.0	696	Triacon Surrogate Rec = 88.8%		(548707)
C40	12.382	0.018	1007	2113			
o-terph	6.553	-0.003	670224	515892			
Triacon Surr	9.457	-0.004	462666	548707			

Range Times: NW Diesel(4.634 - 7.874) AK102(3.87 - 8.11) Jet A(3.87 - 6.37)
NW M.Oil(7.87 - 11.67) AK103(8.11 - 11.12) OR Diesel(3.87 - 8.88)



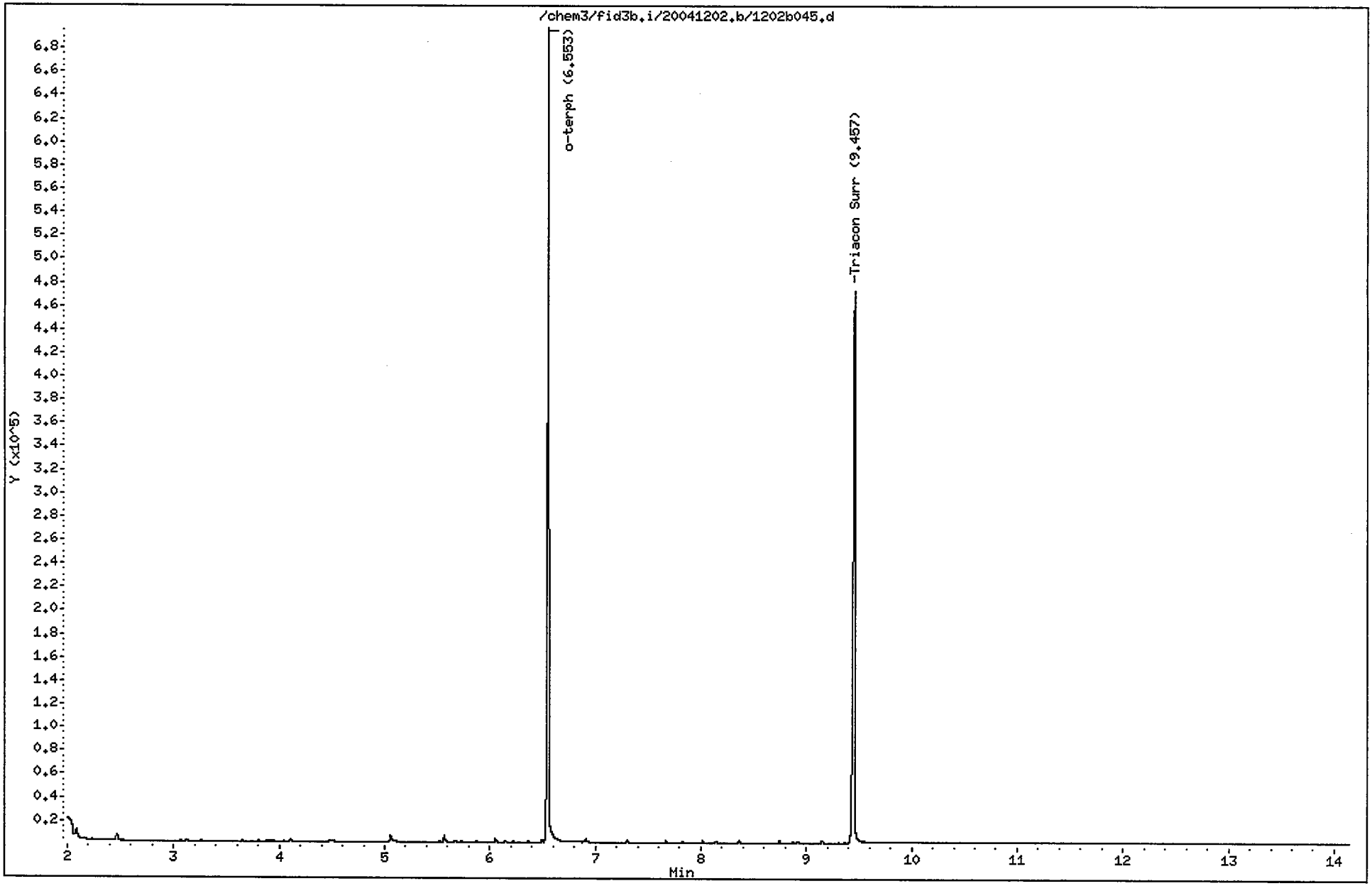
000246

Data File: /chem3/fid3b.i/20041202.b/1202b045.d
Date : 03-DEC-2004 03:27
Client ID:
Sample Info: HJ95G

Instrument: fid3b.i

Operator: AR
Column diameter: 2.00

Column phase: RTX-1



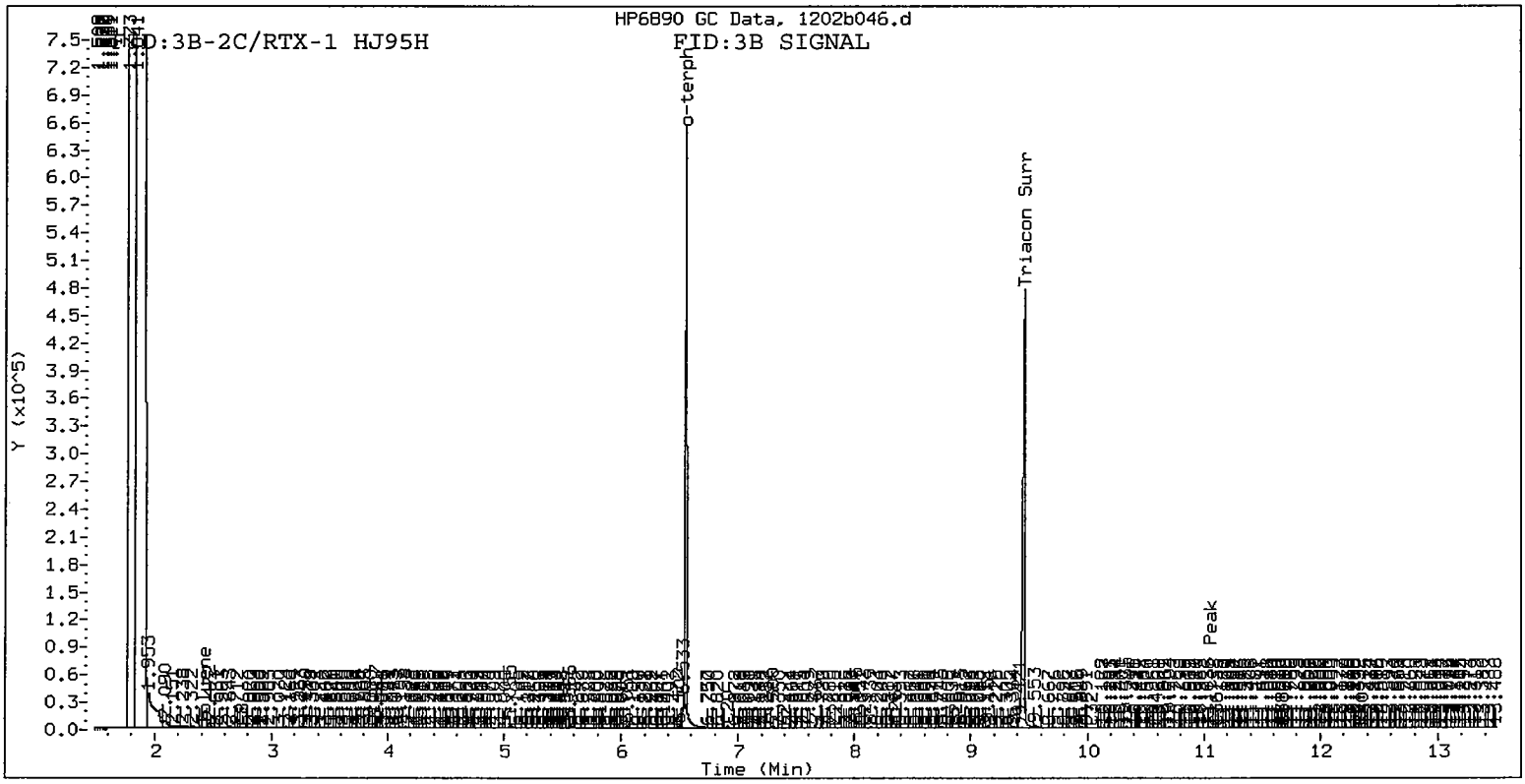
Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3b.i/20041202.b/1202b046.d ARI ID: HJ95H
Method: /chem3/fid3b.i/20041202.b/acidsilfid3b.m Client ID:
Instrument: fid3b.i Injection: 03-DEC-2004 03:50
Operator: AR
Report Date: 12/03/2004 Dilution Factor: 1
Macro: 01-DEC-2004
Calibration Dates: Gas:11-JUN-2004 Diesel:01-DEC-2004 M.Oil:20-NOV-2004
OR.MOIL:20-NOV-2004 BUNKERC:12-AUG-2004

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.432	-0.020	764	1546	GAS (Tol-C12)	74780	10
C8	2.752	0.020	377	981	DIESEL (C12-C24)	232501	17
C10	3.884	0.011	695	850	M.OIL (C24-C38)	204555	21
C12	4.632	-0.003	585	1321			
C14	5.247	0.000	512	309			
C16	5.824	0.003	651	698			
C18	6.366	-0.005	1036	1684	OR.MOIL (C28-C40)	189050	20
C20	6.910	0.019	3526	5499			
C22	7.398	0.005	687	2568			
C24	7.840	-0.034	914	2563			
C25	8.090	-0.019	657	508			
C26	8.360	0.017	2635	3599			
C28	8.874	-0.004	859	2195			
C32	10.032	0.012	1049	4926			
C34	10.591	0.011	743	1448	BUNKERC (C10-C38)	470063	242
Filter Peak	11.058	-0.001	1156	2585			
C36	11.114	-0.002	878.0	1076	o-Terph Surrogate Rec = 77.3%		(494520)
C38	11.673	-0.001	996.0	454	Triacon Surrogate Rec = 89.7%		(554010)
C40	12.361	-0.003	990	1594			
o-terph	6.552	-0.004	629613	494520			
Triacon Surr	9.458	-0.003	467183	554010			

Range Times: NW Diesel(4.634 - 7.874) AK102(3.87 - 8.11) Jet A(3.87 - 6.37)
NW M.Oil(7.87 - 11.67) AK103(8.11 - 11.12) OR Diesel(3.87 - 8.88)



Data File: /chem3/fid3b.i/20041202.b/1202b046.d

Date : 03-DEC-2004 03:50

Client ID:

Sample Info: HJ95H

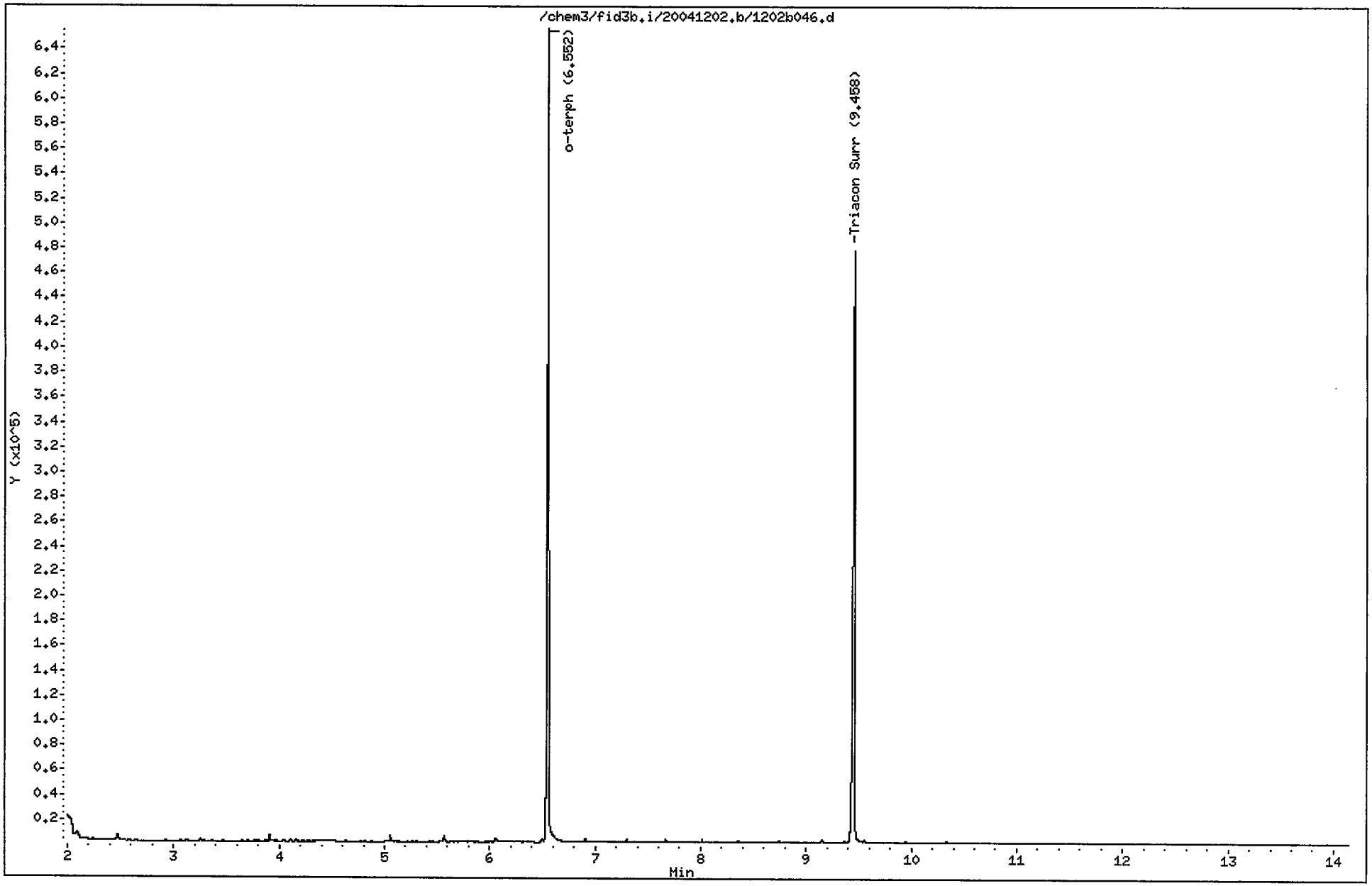
Column phase: RTX-1

Instrument: fid3b.i

Operator: AR

Column diameter: 2.00

000248



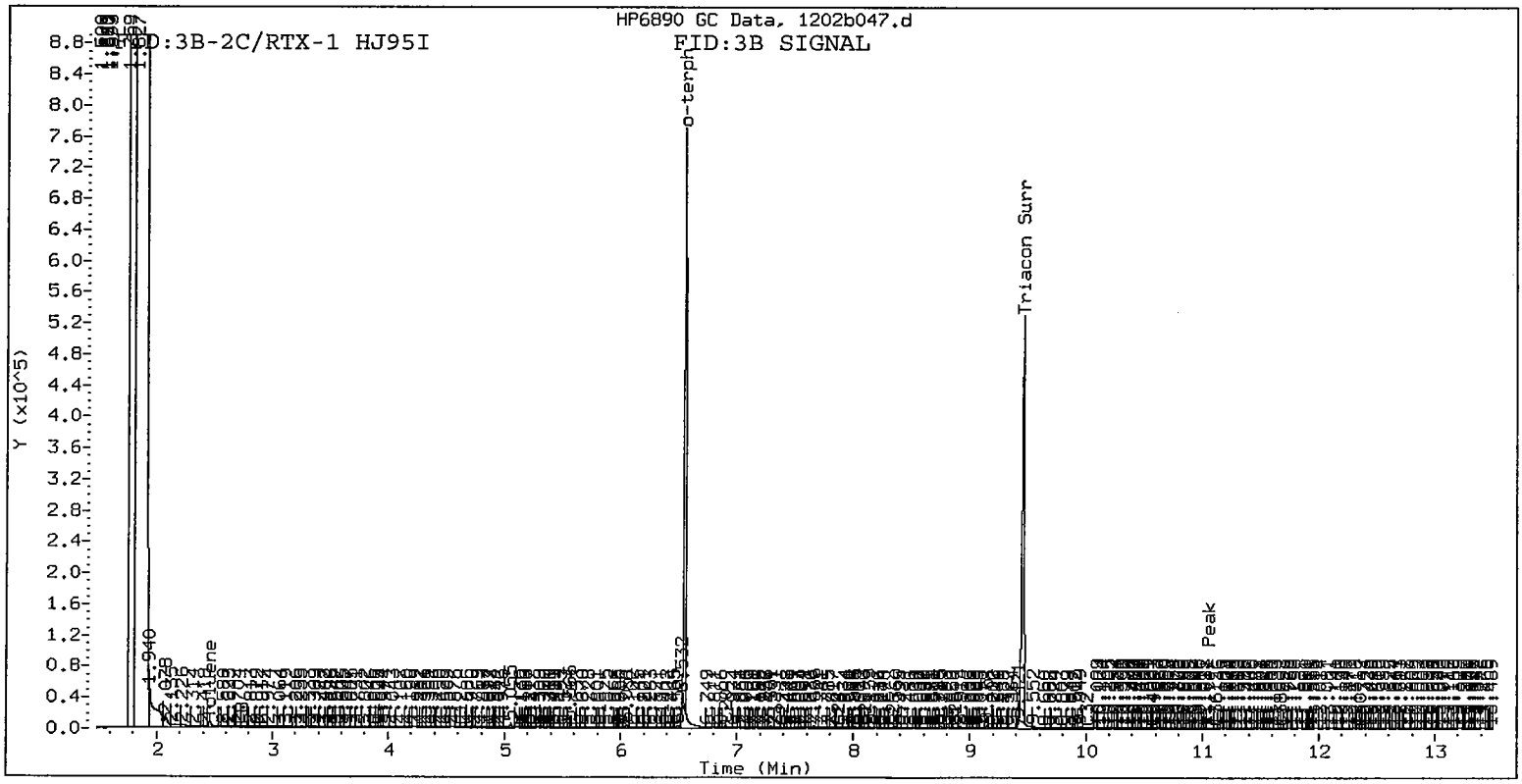
Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3b.i/20041202.b/1202b047.d ARI ID: HJ95I
Method: /chem3/fid3b.i/20041202.b/acidsilfid3b.m Client ID:
Instrument: fid3b.i Injection: 03-DEC-2004 04:12
Operator: AR
Report Date: 12/03/2004 Dilution Factor: 1
Macro: 01-DEC-2004
Calibration Dates: Gas:11-JUN-2004 Diesel:01-DEC-2004 M.Oil:20-NOV-2004
OR.MOIL:20-NOV-2004 BUNKERC:12-AUG-2004

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.460	0.009	7420	11468	GAS (Tol-C12)	62068	9
C8	2.742	0.009	443	1307	DIESEL (C12-C24)	227158	16 LDL
C10	3.881	0.008	693	1293	M.OIL (C24-C38)	249220	26
C12	4.632	-0.002	474	1134			
C14	5.264	0.017	468	1037			
C16	5.824	0.003	526	1466			
C18	6.364	-0.006	965	1084	OR.MOIL (C28-C40)	212884	23
C20	6.910	0.018	3475	5025			
C22	7.398	0.005	660	1314			
C24	7.876	0.002	868	2549			
C25	8.109	-0.001	981	1566			
C26	8.348	0.005	1074	2938			
C28	8.871	-0.006	1265	2674			
C32	10.017	-0.003	1377	5816			
C34	10.575	-0.005	854	635	BUNKERC (C10-C38)	499946	258
Filter Peak	11.056	-0.003	1172	4172			
C36	11.125	0.009	939.0	1474	o-Terph Surrogate Rec = 96.0%		(614408)
C38	11.675	0.000	998.0	1297	Triacon Surrogate Rec = 106.6%		(658426)
C40	12.360	-0.004	971	1300			
o-terph	6.554	-0.002	742039	614408			
Triacon Surr	9.462	0.001	520411	658426			

Range Times: NW Diesel(4.634 - 7.874) AK102(3.87 - 8.11) Jet A(3.87 - 6.37)
NW M.Oil(7.87 - 11.67) AK103(8.11 - 11.12) OR Diesel(3.87 - 8.88)



Data File: /chem3/fid3b.i/20041202.b/1202b047.d

Date : 03-DEC-2004 04:12

Client ID:

Sample Info: HJ95I

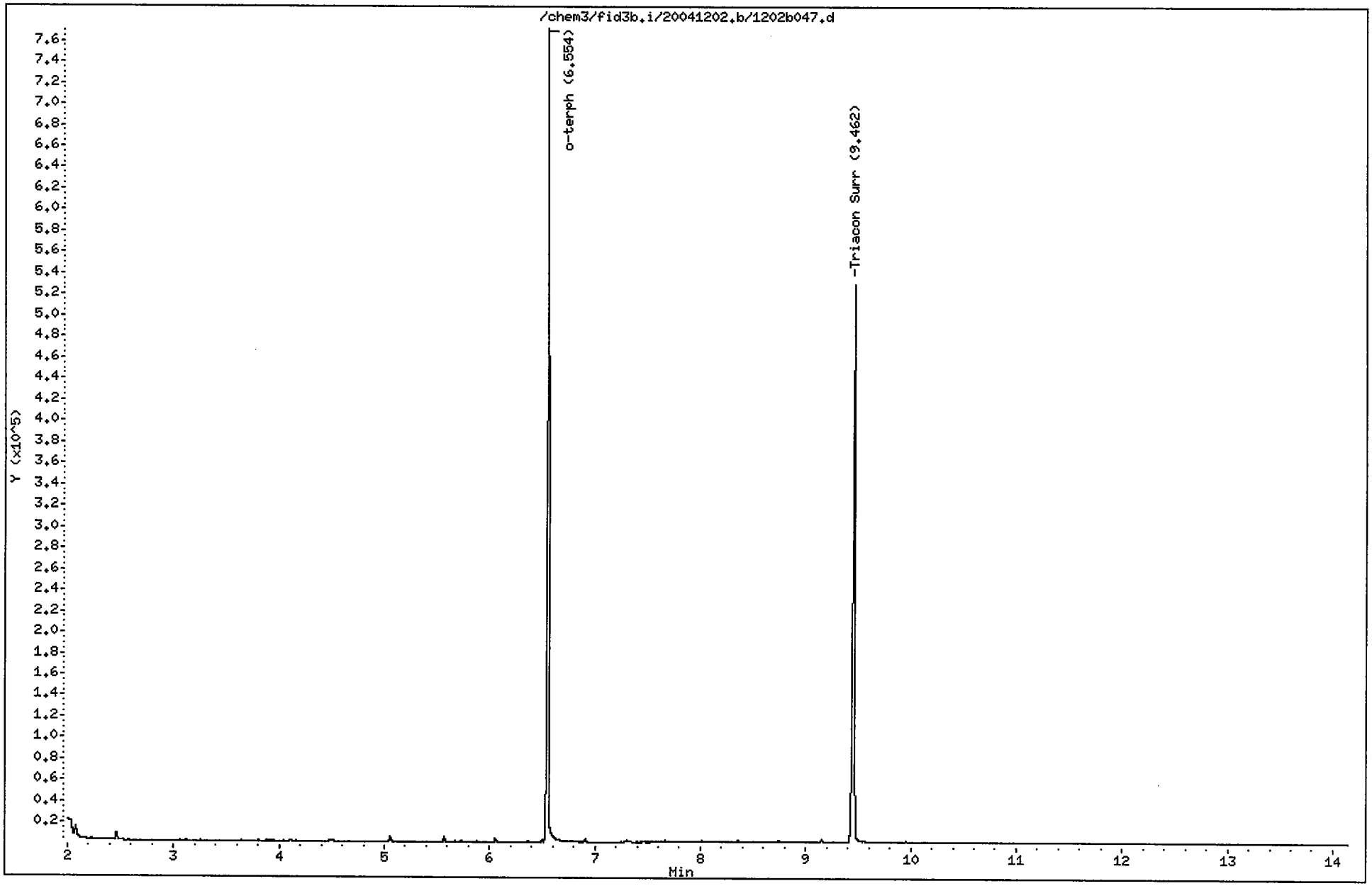
Column phase: RTX-1

Instrument: fid3b.i

Operator: AR

Column diameter: 2.00

000250



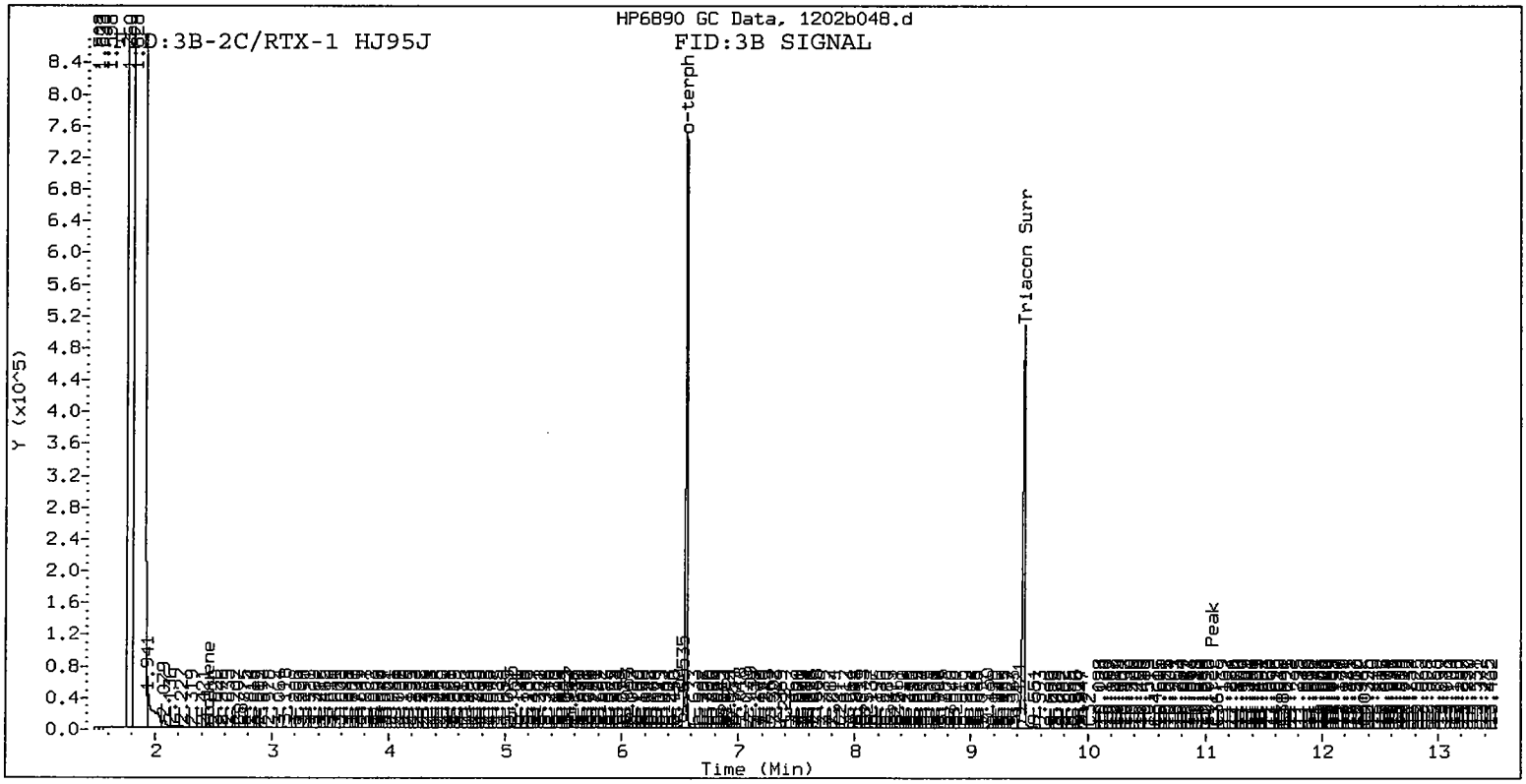
Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3b.i/20041202.b/1202b048.d ARI ID: HJ95J
Method: /chem3/fid3b.i/20041202.b/acidsilfid3b.m Client ID:
Instrument: fid3b.i Injection: 03-DEC-2004 04:35
Operator: AR
Report Date: 12/03/2004 Dilution Factor: 1
Macro: 01-DEC-2004
Calibration Dates: Gas:11-JUN-2004 Diesel:01-DEC-2004 M.Oil:20-NOV-2004
OR.MOIL:20-NOV-2004 BUNKERC:12-AUG-2004

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.462	0.010	6435	8932	GAS (Tol-C12)	67498	9
C8	2.741	0.009	441	1025	DIESEL (C12-C24)	245297	18 ug/L
C10	3.880	0.007	685	1025	M.OIL (C24-C38)	259043	27
C12	4.650	0.016	678	1481			
C14	5.258	0.011	710	903			
C16	5.819	-0.002	1452	2342			
C18	6.369	-0.001	1506	2334	OR.MOIL (C28-C40)	233774	25
C20	6.891	0.000	899	631			
C22	7.400	0.007	5450	7953			
C24	7.874	-0.001	1059	2496			
C25	8.108	-0.002	1047	2390			
C26	8.343	0.000	1022	1643			
C28	8.873	-0.004	1215	2641			
C32	10.016	-0.004	1406	5032			
C34	10.577	-0.003	962	1702	BUNKERC (C10-C38)	534722	276
Filter Peak	11.056	-0.003	1201	4021			
C36	11.106	-0.010	1017.0	1061	o-Terph Surrogate Rec = 91.5%		(585220)
C38	11.661	-0.013	1058.0	1027	Triacon Surrogate Rec = 97.6%		(602950)
C40	12.370	0.006	983	856			
o-terph	6.557	0.001	729721	585220			
Triacon Surr	9.459	-0.002	498969	602950			

Range Times: NW Diesel(4.634 - 7.874) AK102(3.87 - 8.11) Jet A(3.87 - 6.37)
NW M.Oil(7.87 - 11.67) AK103(8.11 - 11.12) OR Diesel(3.87 - 8.88)



Data File: /chem3/fid3b.i/20041202.b/1202b048.d

Date : 03-DEC-2004 04:35

Client ID:

Sample Info: HJ95J

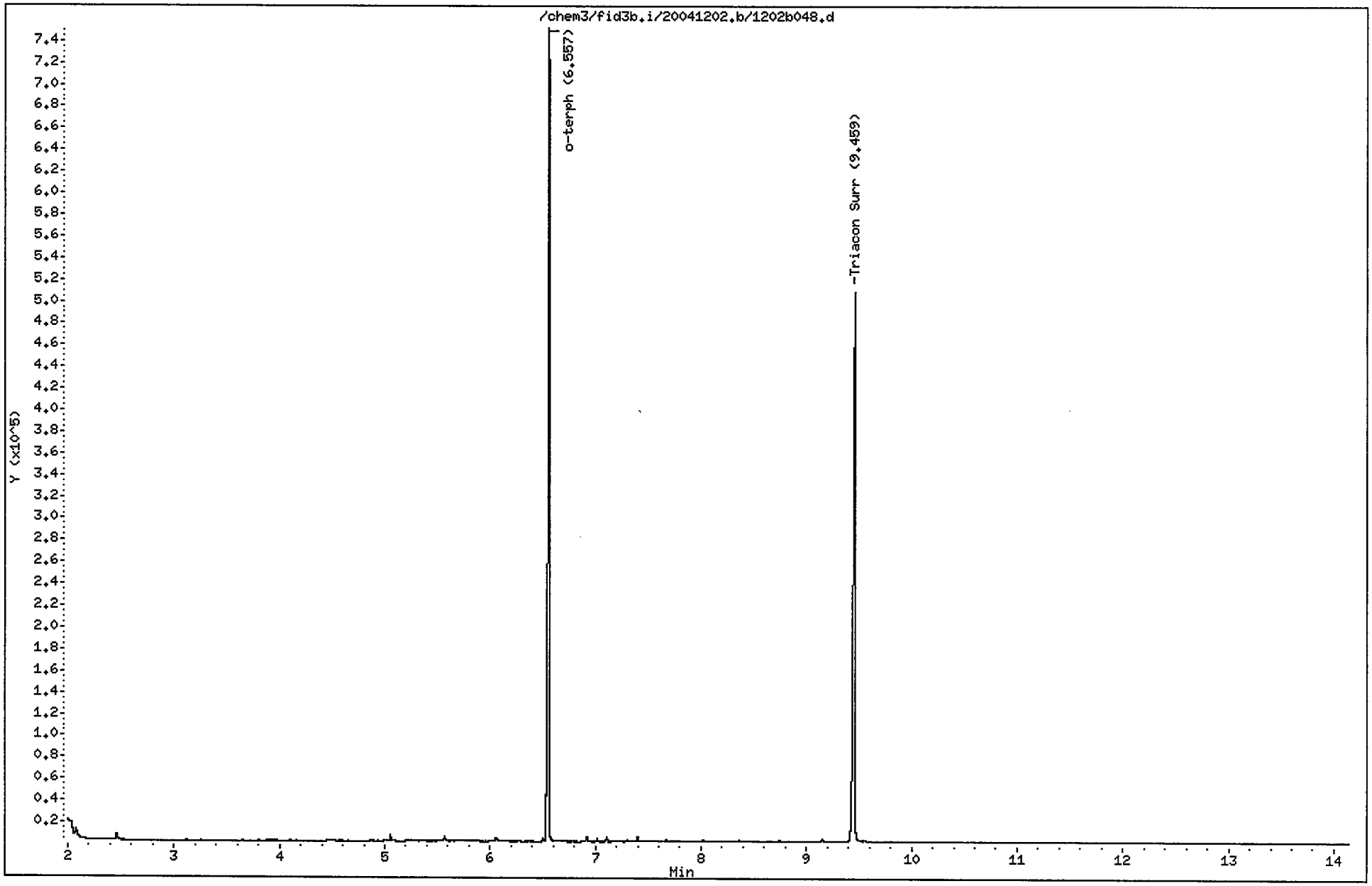
Instrument: fid3b.i

Operator: AR

Column phase: RTX-1

Column diameter: 2.00

000252



Analytical Resources Inc.
TPH Quantitation Report

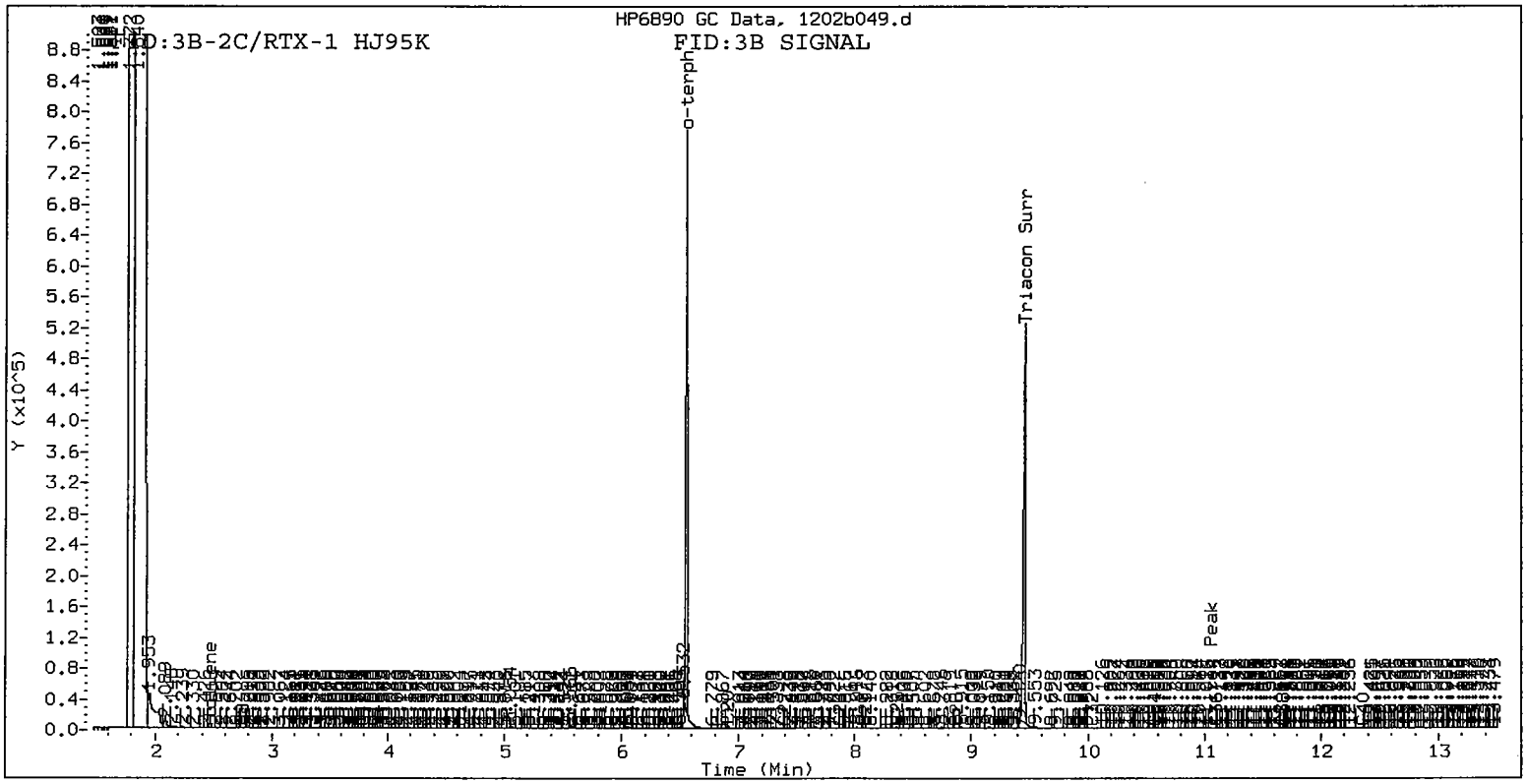
Data file: /chem3/fid3b.i/20041202.b/1202b049.d
Method: /chem3/fid3b.i/20041202.b/acidsilfid3b.m
Instrument: fid3b.i
Operator: AR
Report Date: 12/03/2004
Macro: 01-DEC-2004
Calibration Dates: Gas:11-JUN-2004 Diesel:01-DEC-2004 M.Oil:20-NOV-2004
OR.MOIL:20-NOV-2004 BUNKERC:12-AUG-2004

ARI ID: HJ95K
Client ID:
Injection: 03-DEC-2004 04:58
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.471	0.020	6670	9321	GAS (Tol-C12)	64005	9
C8	2.749	0.017	389	890	DIESEL (C12-C24)	214692	15
C10	3.884	0.011	685	833	M.OIL (C24-C38)	168780	17
C12	4.632	-0.002	466	1169			
C14	5.263	0.015	518	1928			
C16	5.824	0.003	580	685			
C18	6.365	-0.005	775	1286	OR.MOIL (C28-C40)	167347	18
C20	6.910	0.019	3771	5163			
C22	7.401	0.008	464	405			
C24	7.877	0.003	486	855			
C25	8.093	-0.016	410	508			
C26	8.361	0.018	2001	2674			
C28	8.873	-0.005	653	1388			
C32	10.033	0.014	931	5097			
C34	10.578	-0.001	625	332	BUNKERC (C10-C38)	408307	211
Filter Peak	11.056	-0.003	1003	2904			
C36	11.102	-0.013	775.0	797	o-Terph Surrogate Rec = 88.8%		(568428)
C38	11.678	0.004	909.0	467	Triacon Surrogate Rec = 99.4%		(614267)
C40	12.364	0.001	888	493			
o-terph	6.554	-0.002	750176	568428			
Triacon Surr	9.459	-0.002	514582	614267			

Range Times: NW Diesel(4.634 - 7.874) AK102(3.87 - 8.11) Jet A(3.87 - 6.37)
NW M.Oil(7.87 - 11.67) AK103(8.11 - 11.12) OR Diesel(3.87 - 8.88)



Data File: /chem3/fid3b.i/20041202.b/1202b049.d

Date : 03-DEC-2004 04:58

Client ID:

Sample Info: HJ95K

Column phase: RTX-1

Instrument: fid3b.i

Operator: AR

Column diameter: 2.00

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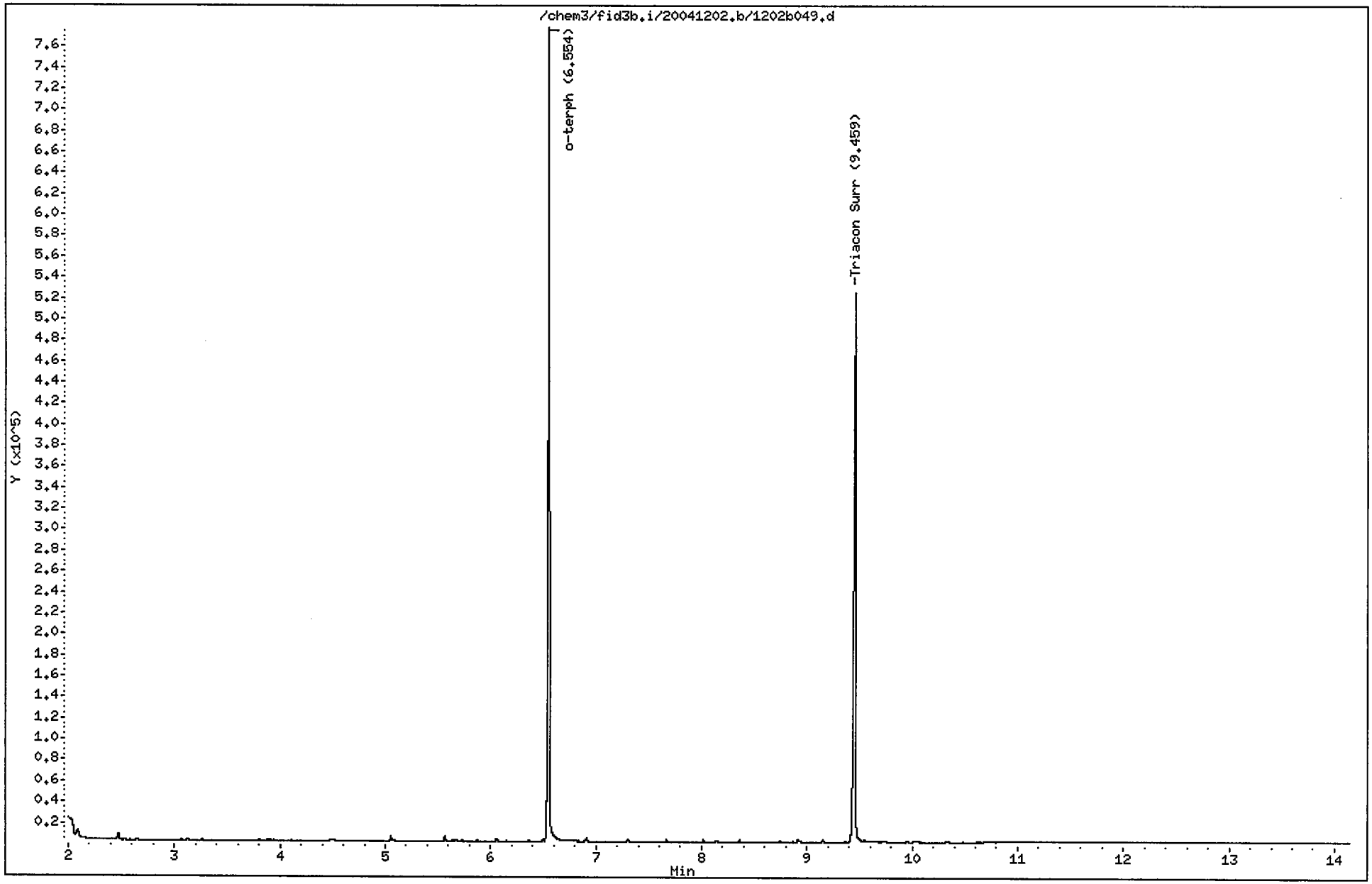


Analytical Resources Inc.
TPH Quantitation Report

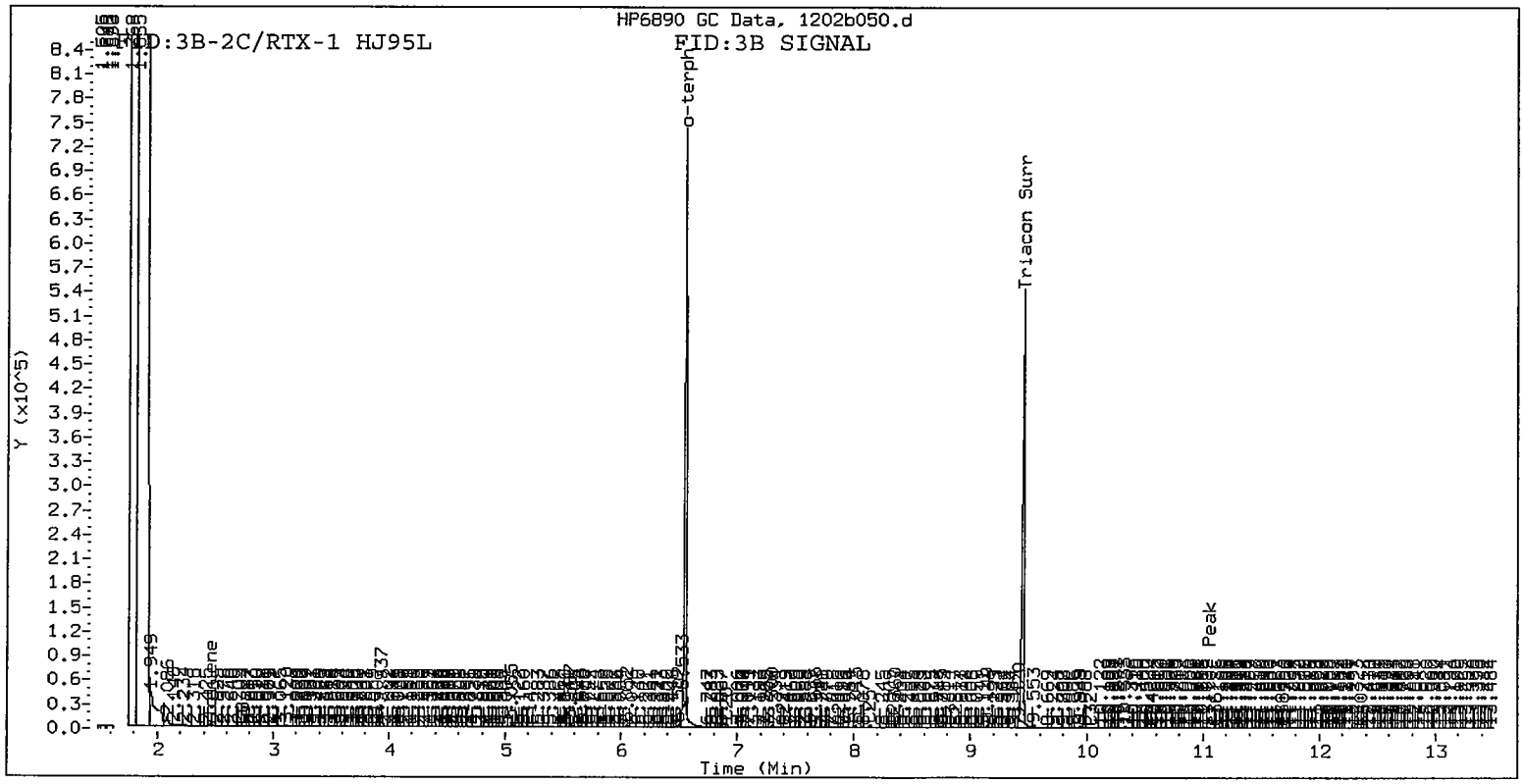
Data file: /chem3/fid3b.i/20041202.b/1202b050.d
Method: /chem3/fid3b.i/20041202.b/acidsilfid3b.m
Instrument: fid3b.i
Operator: AR
Report Date: 12/03/2004
Macro: 01-DEC-2004
Calibration Dates: Gas:11-JUN-2004 Diesel:01-DEC-2004 M.Oil:20-NOV-2004
OR.MOIL:20-NOV-2004 BUNKERC:12-AUG-2004

ARI ID: HJ95L
Client ID:
Injection: 03-DEC-2004 05:21
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.465	0.013	6544	8457	GAS (Tol-C12)	90608	13
C8	2.746	0.013	411	974	DIESEL (C12-C24)	279156	20
C10	3.880	0.007	731	980	M.OIL (C24-C38)	187359	19
C12	4.641	0.007	624	1180			
C14	5.212	-0.035	1028	2257			
C16	5.820	-0.001	1083	2148			
C18	6.366	-0.005	987	1759	OR.MOIL (C28-C40)	177071	19
C20	6.911	0.020	7547	10775			
C22	7.396	0.003	688	1090			
C24	7.876	0.001	755	992			
C25	8.137	0.028	4518	8819			
C26	8.342	-0.001	629	745			
C28	8.872	-0.006	781	2222			
C32	10.033	0.013	961	4743			
C34	10.570	-0.010	644	979	BUNKERC (C10-C38)	518548	267
Filter Peak	11.056	-0.003	1091	3121			
C36	11.110	-0.006	768.0	756	o-Terph Surrogate Rec = 90.1%		(576690)
C38	11.686	0.012	879.0	850	Triacon Surrogate Rec = 101.3%		(625607)
C40	12.365	0.001	871	1114			
o-terph	6.555	-0.002	715582	576690			
Triacon Surr	9.460	-0.001	534518	625607			

Range Times: NW Diesel(4.634 - 7.874) AK102(3.87 - 8.11) Jet A(3.87 - 6.37)
NW M.Oil(7.87 - 11.67) AK103(8.11 - 11.12) OR Diesel(3.87 - 8.88)



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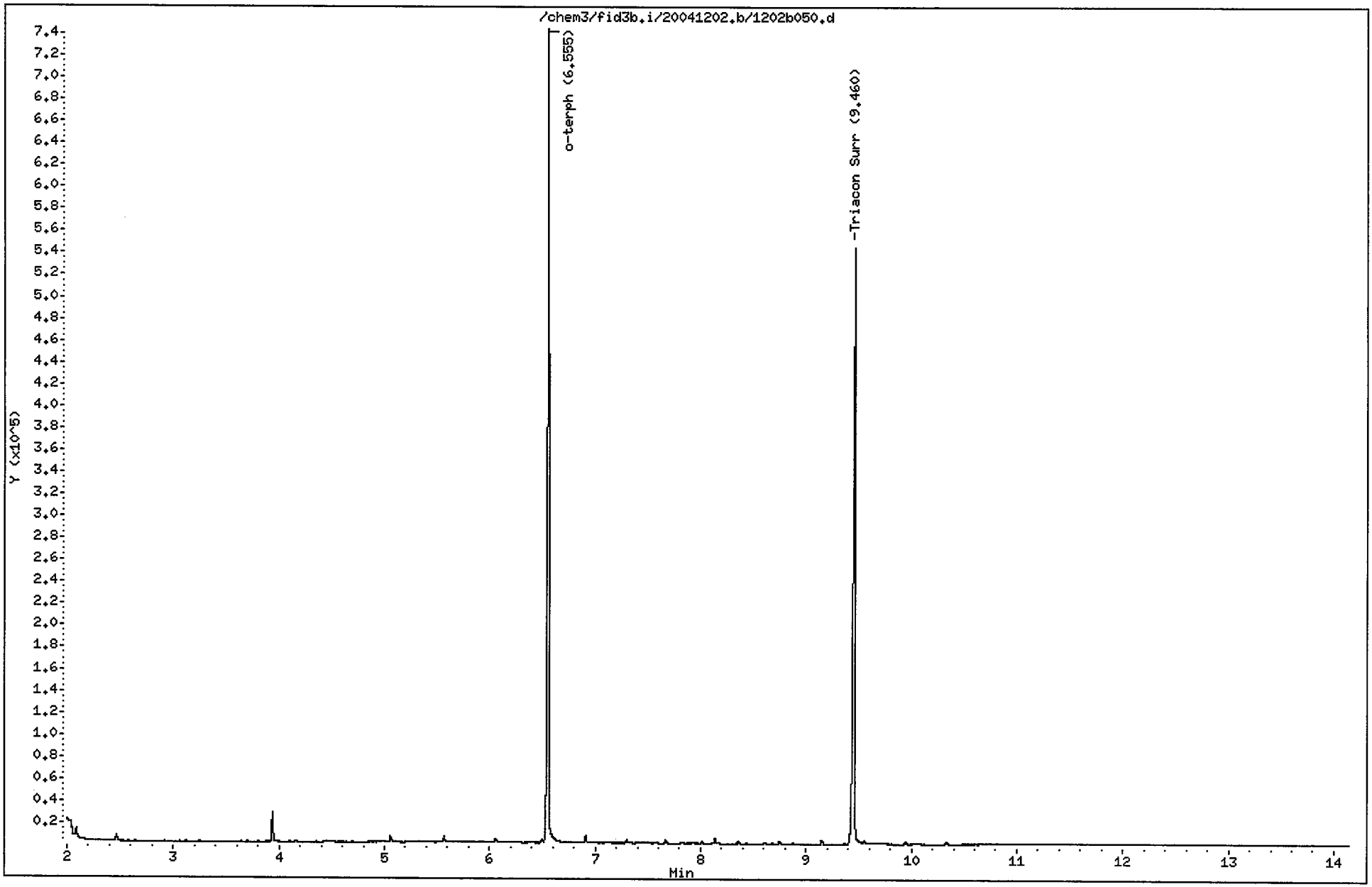
Data File: /chem3/fid3b.i/20041202.b/1202b050.d
Date : 03-DEC-2004 05:21
Client ID:
Sample Info: HJ95L

Instrument: fid3b.i

Operator: AR
Column diameter: 2.00

Column phase: RTX-1



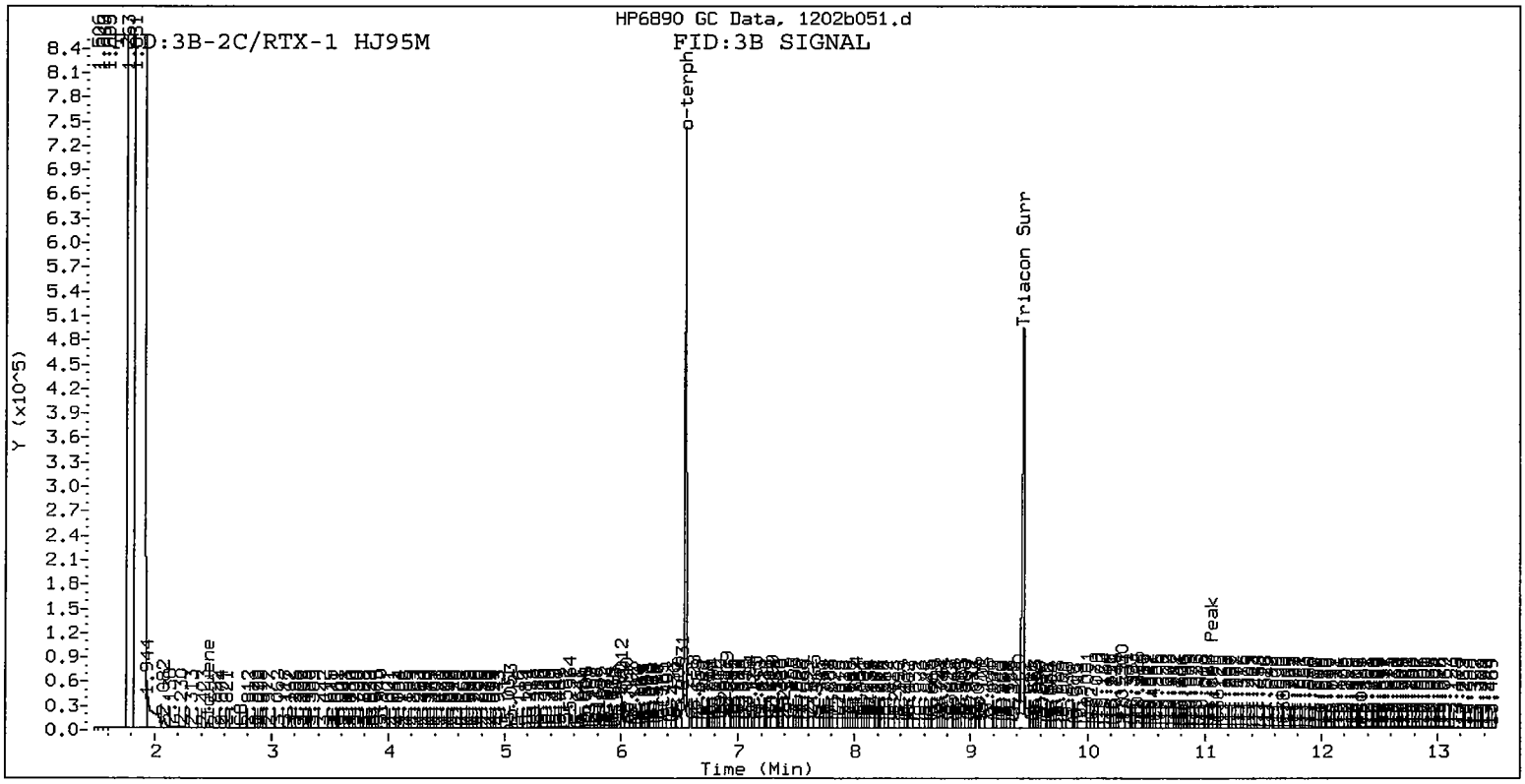
Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3b.i/20041202.b/1202b051.d ARI ID: HJ95M
Method: /chem3/fid3b.i/20041202.b/acidsilfid3b.m Client ID:
Instrument: fid3b.i Injection: 03-DEC-2004 05:46
Operator: AR
Report Date: 12/03/2004 Dilution Factor: 1
Macro: 01-DEC-2004
Calibration Dates: Gas:11-JUN-2004 Diesel:01-DEC-2004 M.Oil:20-NOV-2004
OR.MOIL:20-NOV-2004 BUNKERC:12-AUG-2004

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.461	0.009	9307	11143	GAS (Tol-C12)	65246	9
C8	2.743	0.010	274	668	DIESEL (C12-C24)	1672198	120 DRO
C10	3.879	0.006	713	1072	M.OIL (C24-C38)	2105828	216 220
C12	4.632	-0.002	467	557			
C14	5.247	-0.001	1352	2276			
C16	5.812	-0.009	6308	8458			
C18	6.365	-0.006	24277	28433	OR.MOIL (C28-C40)	1458745	156
C20	6.885	-0.007	16614	16191			
C22	7.398	0.005	17302	44160			
C24	7.871	-0.004	13725	38583			
C25	8.116	0.006	13534	11934			
C26	8.358	0.015	16024	34995			
C28	8.871	-0.007	12234	12044			
C32	10.035	0.015	8401	15608			
C34	10.566	-0.014	6868	8890	BUNKERC (C10-C38)	3807311	1963
Filter Peak	11.054	-0.005	6083	8646			
C36	11.107	-0.008	5314.0	3341	o-Terph Surrogate Rec = 87.9% √		(562401)
C38	11.675	0.000	3442.0	2428	Triacon Surrogate Rec = 91.6%		(565696)
C40	12.349	-0.015	2074	5512			
o-terph	6.553	-0.003	713788	562401			
Triacon Surr	9.456	-0.005	475735	565696			

Range Times: NW Diesel(4.634 - 7.874) AK102(3.87 - 8.11) Jet A(3.87 - 6.37)
NW M.Oil(7.87 - 11.67) AK103(8.11 - 11.12) OR Diesel(3.87 - 8.88)



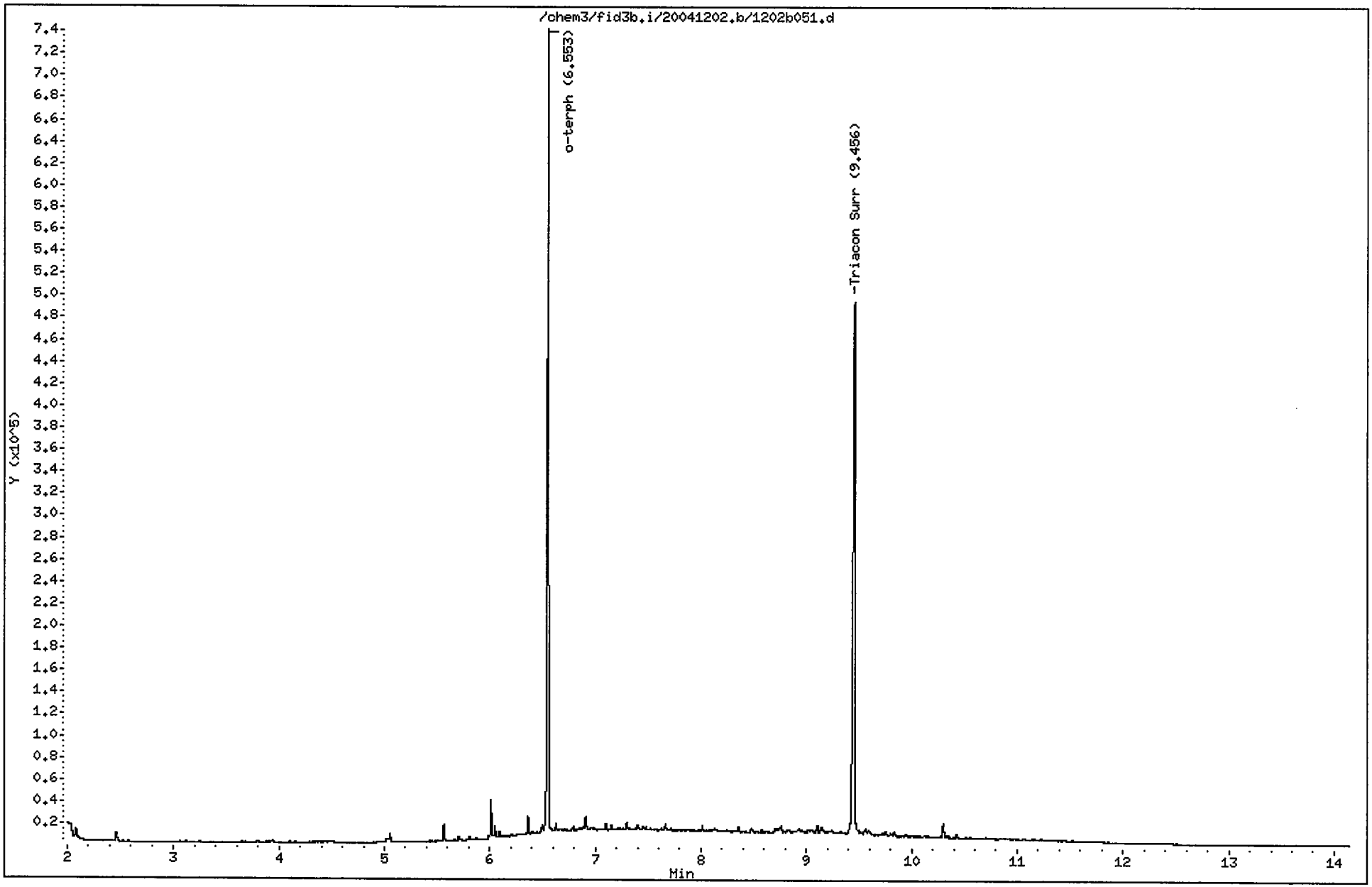
000258

Data File: /chem3/fid3b.i/20041202.b/1202b051.d
Date : 03-DEC-2004 05:46
Client ID:
Sample Info: HJ95M

Instrument: fid3b.i

Operator: AR
Column diameter: 2.00

Column phase: RTX-1



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned **Sample ID: MW-111**
Page 1 of 1 **MS/MSD**

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/03/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted MS/MSD: 11/29/04

Date Analyzed MS: 12/02/04 22:53
MSD: 12/02/04 23:16
Instrument/Analyst MS: FID/AAR
MSD: FID/AAR

Sample Amount MS: 500 mL
MSD: 500 mL
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 1.00
MSD: 1.00

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	< 0.25	1.95	3.00	65.0%	2.59	3.00	86.3%	28.2%

Results reported in mg/L
RPD calculated using sample concentrations per SW846.

Analytical Resources Inc.
TPH Quantitation Report

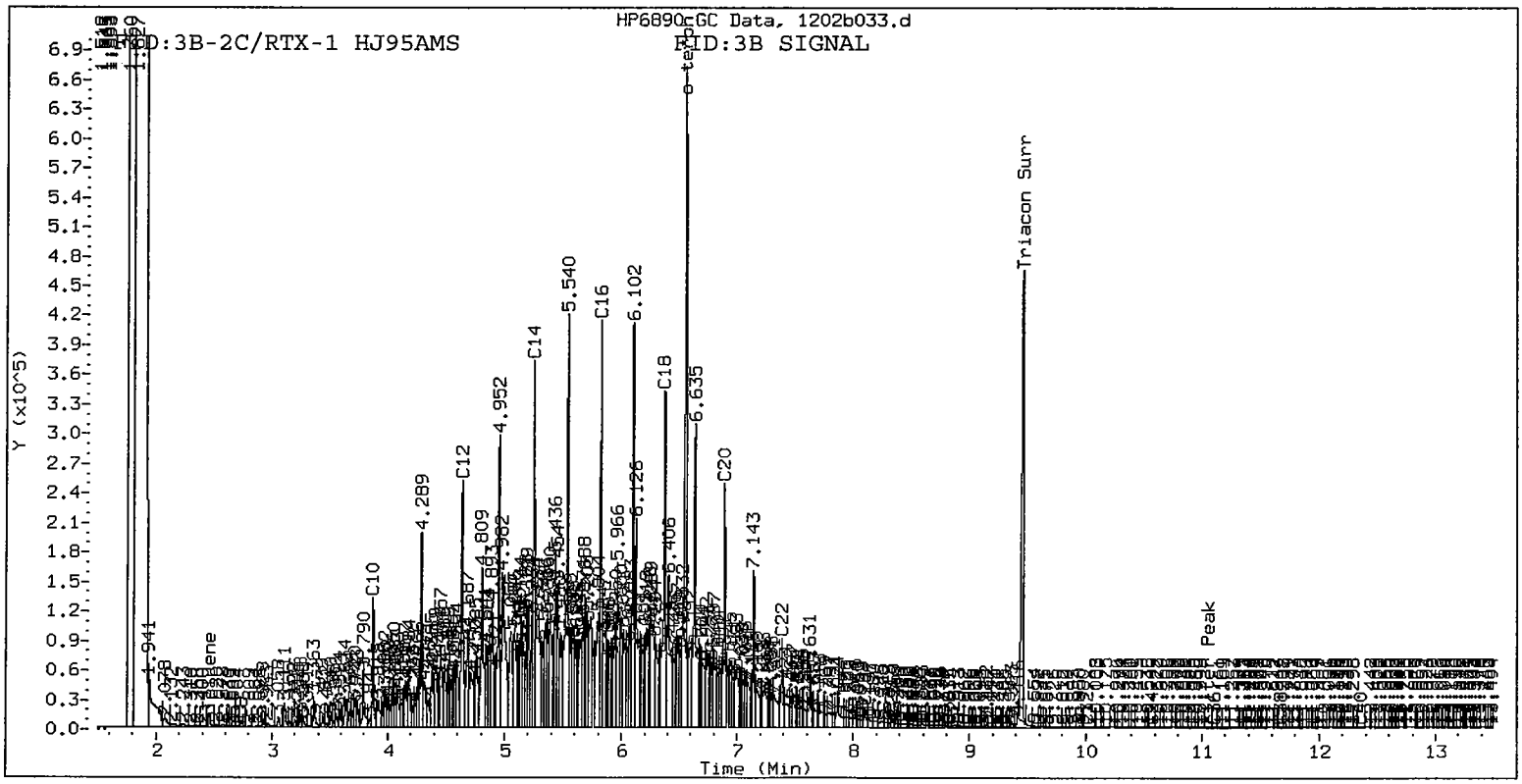
Data file: /chem3/fid3b.i/20041202.b/1202b033.d
Method: /chem3/fid3b.i/20041202.b/acidsilfid3b.m
Instrument: fid3b.i
Operator: AR
Report Date: 12/03/2004
Macro: 01-DEC-2004
Calibration Dates: Gas:11-JUN-2004 Diesel:01-DEC-2004 M.Oil:20-NOV-2004
OR.MOIL:20-NOV-2004 BUNKERC:12-AUG-2004

ARI ID: HJ95AMS
Client ID:
Injection: 02-DEC-2004 22:53
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.460	0.008	13619	16030	GAS (Tol-C12)	2370415	328
C8	2.738	0.005	5545	6480	DIESEL (C12-C24)	13611031	976 65.1%
C10	3.874	0.001	130877	106864	M.OIL (C24-C38)	417219	43
C12	4.637	0.003	250123	285092			
C14	5.251	0.003	371444	290273			
C16	5.824	0.003	413219	358515			
C18	6.373	0.003	341178	386899	OR.MOIL (C28-C40)	165618	18
C20	6.892	0.000	248177	243574			
C22	7.389	-0.004	91025	110635			
C24	7.868	-0.006	36638	64955			
C25	8.100	-0.009	19993	26204			
C26	8.335	-0.008	10067	11929			
C28	8.870	-0.008	2634	5604			
C32	10.015	-0.004	1207	3971			
C34	10.578	-0.002	556	1565	BUNKERC (C10-C38)	15976981	8238
Filter Peak	11.056	-0.003	854	2421			
C36	11.110	-0.006	636.0	1680	o-Terph Surrogate Rec = 71.0% ✓		(454174)
C38	11.675	0.001	662.0	1600	Triacon Surrogate Rec = 81.1%		(501025)
C40	12.360	-0.004	589	1995			
o-terph	6.556	-0.001	587035	454174			
Triacon Surr	9.457	-0.004	458219	501025			

Range Times: NW Diesel(4.634 - 7.874) AK102(3.87 - 8.11) Jet A(3.87 - 6.37)
NW M.Oil(7.87 - 11.67) AK103(8.11 - 11.12) OR Diesel(3.87 - 8.88)



Data File: /chem3/fid3b.i/20041202.b/1202b033.d

Date : 02-DEC-2004 22:53

Client ID:

Sample Info: HJ95AMS

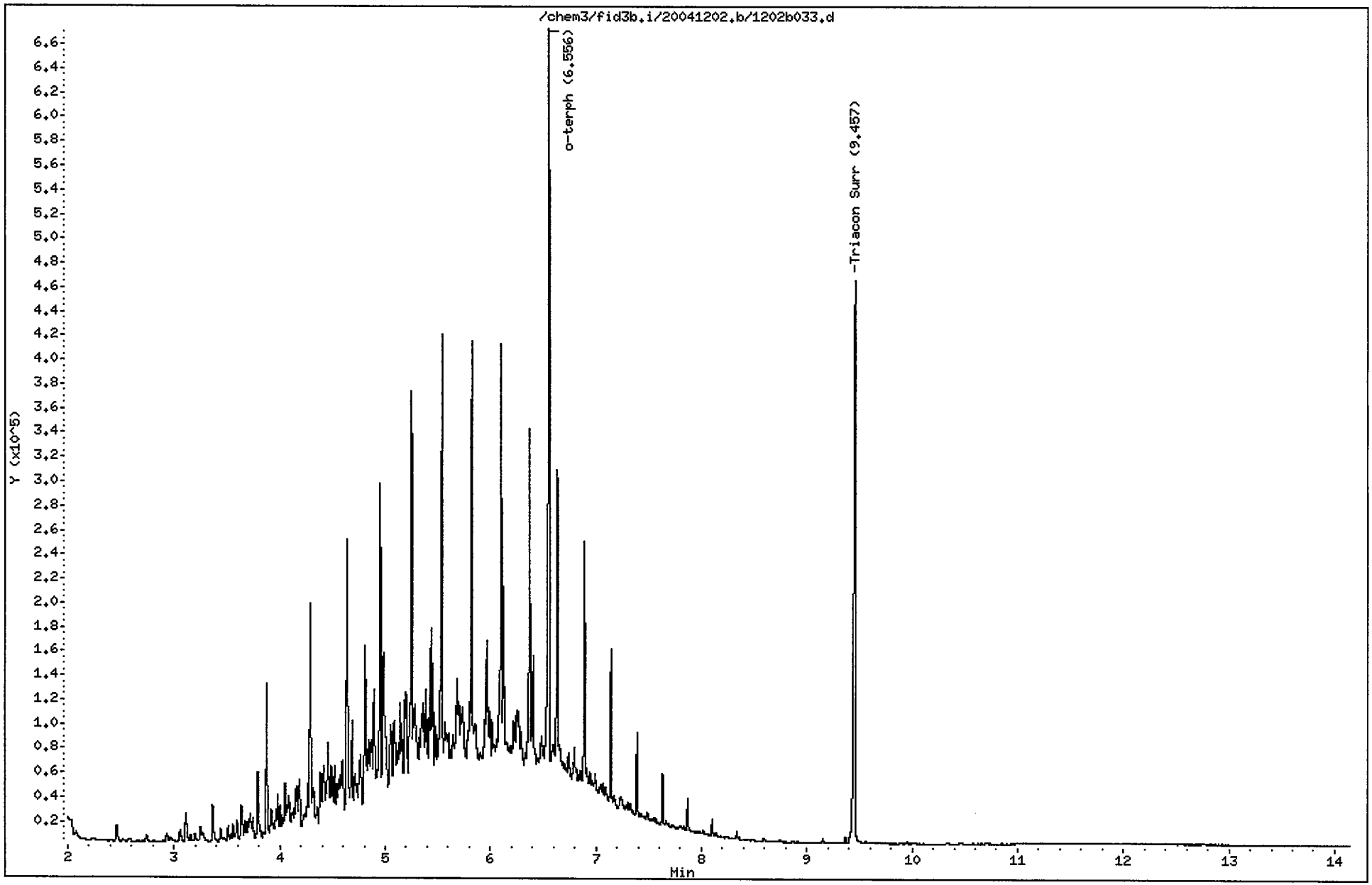
Column phase: RTX-1

Instrument: fid3b.i

Operator: AR

Column diameter: 2.00

000261



Analytical Resources Inc.
TPH Quantitation Report

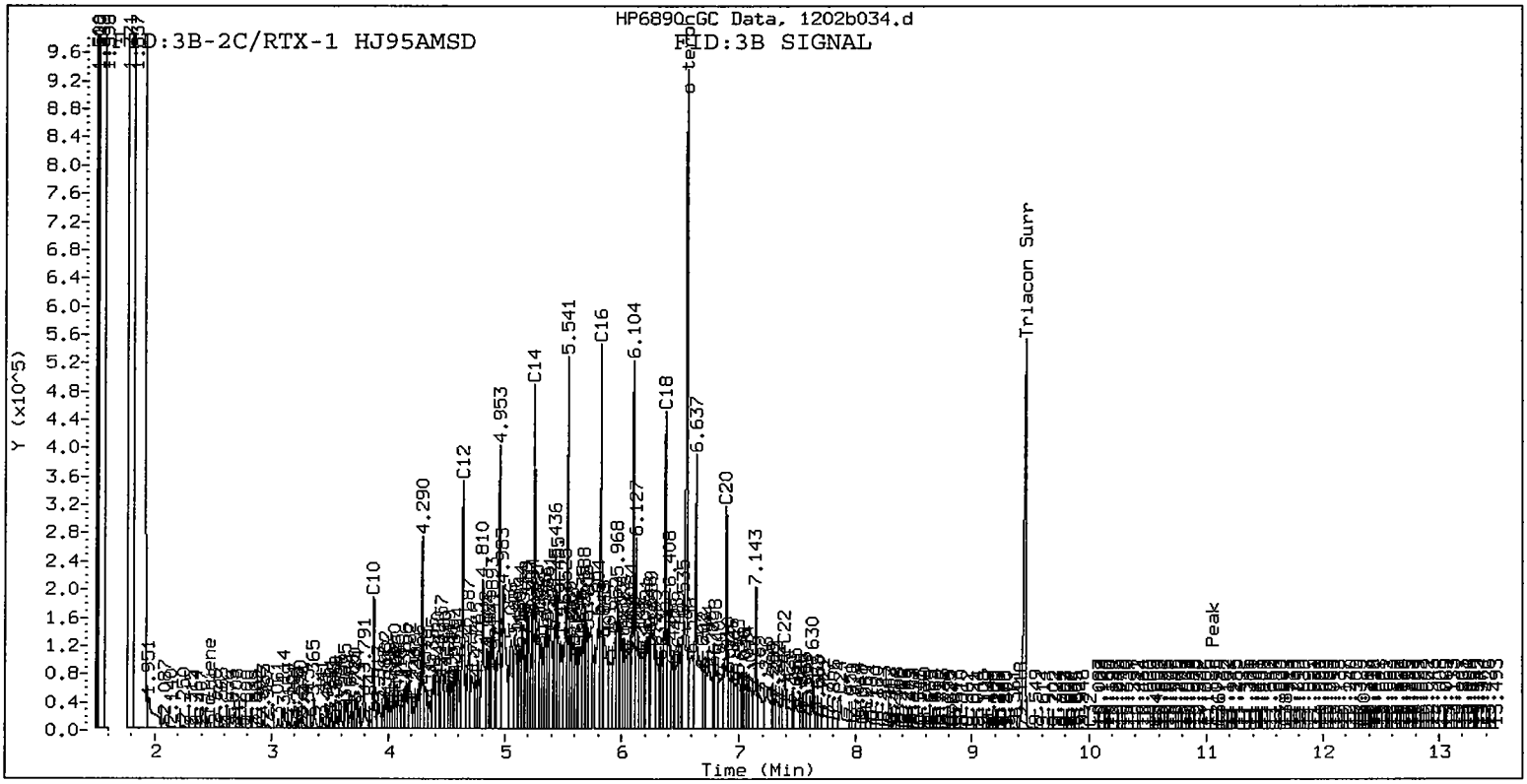
Data file: /chem3/fid3b.i/20041202.b/1202b034.d
Method: /chem3/fid3b.i/20041202.b/acidsilfid3b.m
Instrument: fid3b.i
Operator: AR
Report Date: 12/03/2004
Macro: 01-DEC-2004
Calibration Dates: Gas:11-JUN-2004 Diesel:01-DEC-2004 M.Oil:20-NOV-2004
OR.MOIL:20-NOV-2004 BUNKERC:12-AUG-2004

ARI ID: HJ95AMSD
Client ID:
Injection: 02-DEC-2004 23:16
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.466	0.014	14017	17600	GAS (Tol-C12)	3269368	453
C8	2.745	0.012	7914	9812	DIESEL (C12-C24)	18086649	1297
C10	3.875	0.002	187496	153578	M.OIL (C24-C38)	439820	45
C12	4.638	0.004	350457	393427			
C14	5.252	0.005	486647	382373			
C16	5.825	0.004	545393	459235			
C18	6.375	0.005	449369	397094	OR.MOIL (C28-C40)	153008	16
C20	6.893	0.001	314691	314658			
C22	7.389	-0.004	118887	135854			
C24	7.867	-0.007	47505	97243			
C25	8.099	-0.011	25880	32431			
C26	8.333	-0.010	12777	15306			
C28	8.866	-0.011	2999	5145			
C32	10.016	-0.004	1087	3360			
C34	10.581	0.001	406	783	BUNKERC (C10-C38)	21214393	10939
Filter Peak	11.055	-0.004	747	1781			
C36	11.111	-0.005	483.0	996	o-Terph Surrogate Rec = 107.4%		(687144)
C38	11.689	0.014	553.0	1384	Triacon Surrogate Rec = 110.9%		(684952)
C40	12.358	-0.006	515	631			
o-terph	6.560	0.004	821481	687144			
Triacon Surr	9.460	-0.002	544835	684952			

Range Times: NW Diesel(4.634 - 7.874) AK102(3.87 - 8.11) Jet A(3.87 - 6.37)
NW M.Oil(7.87 - 11.67) AK103(8.11 - 11.12) OR Diesel(3.87 - 8.88)



Data File: /chem3/fid3b.i/20041202.b/1202b034.d

Date : 02-DEC-2004 23:16

Client ID:

Sample Info: HJ95AMSD

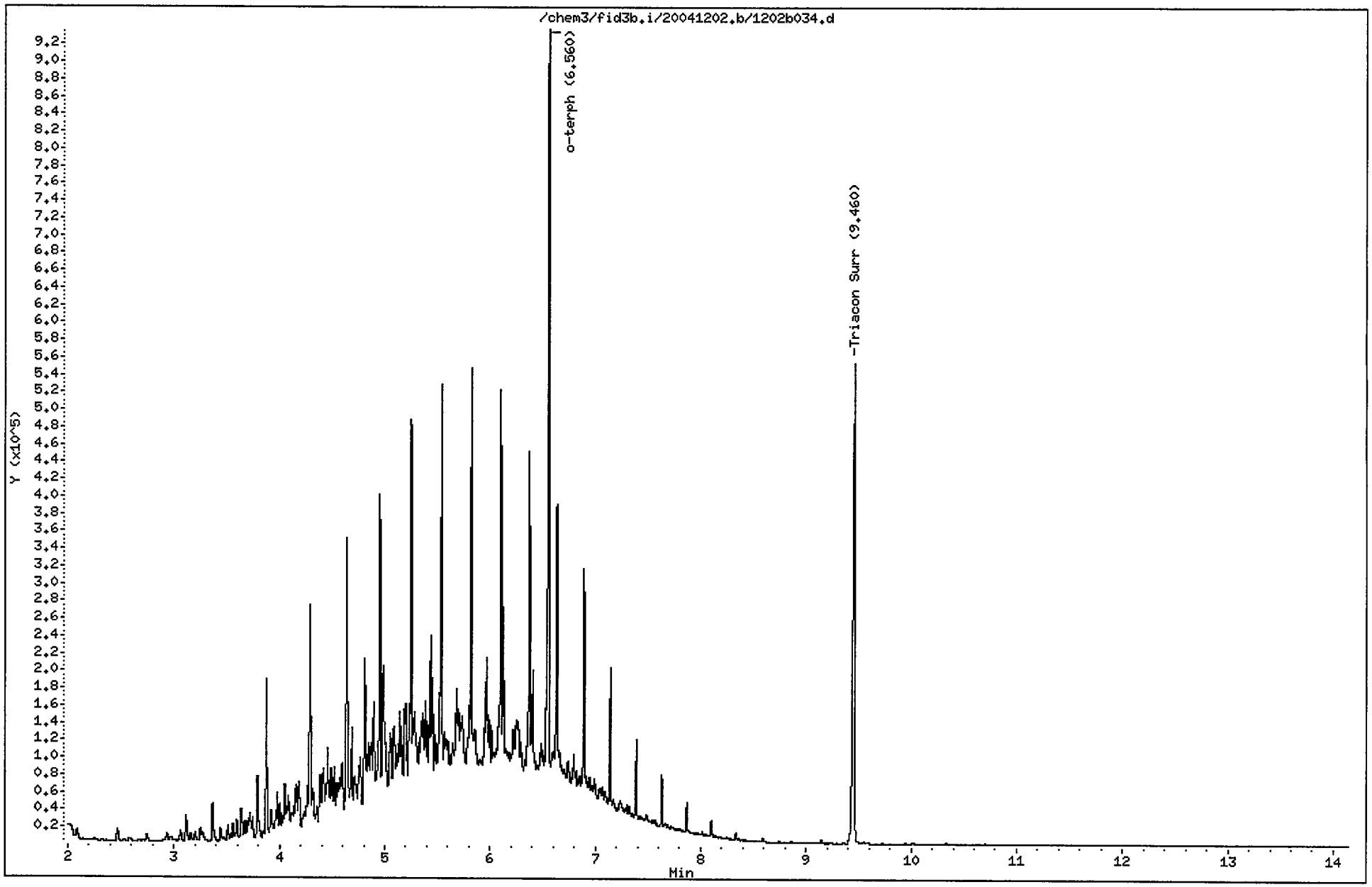
Column phase: RTX-1

Instrument: fid3b.i

Operator: AR

Column diameter: 2.00

000263



ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned **Sample ID: LCS-112904**
Page 1 of 1 **LAB CONTROL**

Lab Sample ID: LCS-112904
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/03/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA) 529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Date Extracted: 11/29/04
Date Analyzed: 12/02/04 22:08
Instrument/Analyst: FID/AAR

Sample Amount: 500 mL
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00

Range	Lab Control	Spike Added	Recovery
Diesel	2.81	3.00	93.7%

TPHD Surrogate Recovery

o-Terphenyl	118%

Results reported in mg/L

Analytical Resources Inc.
TPH Quantitation Report

Data file: /chem3/fid3b.i/20041202.b/1202b031.d
Method: /chem3/fid3b.i/20041202.b/acidsilfid3b.m
Instrument: fid3b.i
Operator: AR
Report Date: 12/03/2004
Macro: 01-DEC-2004
Calibration Dates: Gas:11-JUN-2004 Diesel:01-DEC-2004 M.Oil:20-NOV-2004
OR.MOIL:20-NOV-2004 BUNKERC:12-AUG-2004

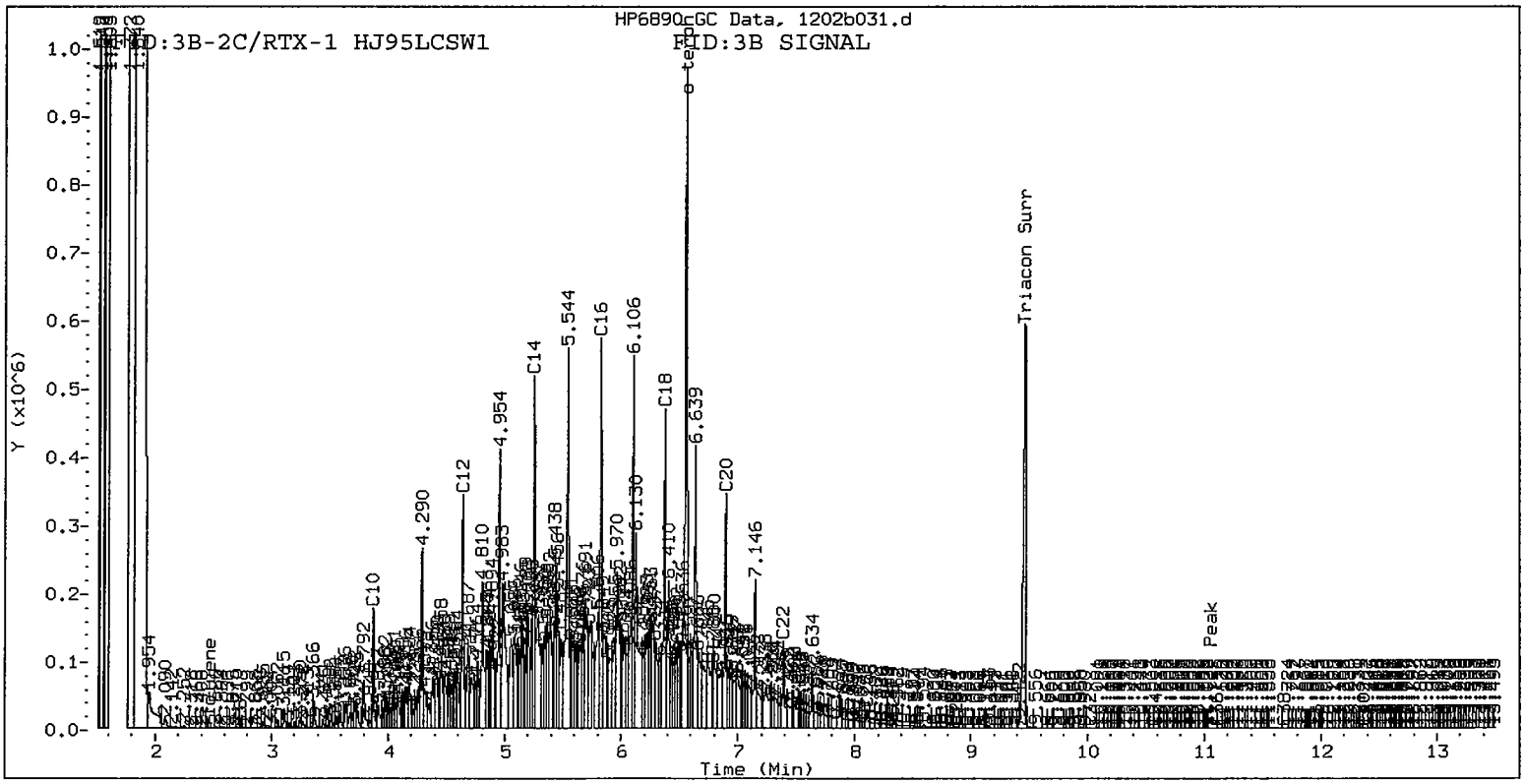
ARI ID: HJ95LCSW1
Client ID:
Injection: 02-DEC-2004 22:08
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	2.468	0.016	14500	17648	GAS (Tol-C12)	3141061	435
C8	2.745	0.013	7831	9240	DIESEL (C12-C24)	19570404	1403
C10	3.876	0.002	177506	143080	M.OIL (C24-C38)	483160	50
C12	4.638	0.004	344076	390543			
C14	5.253	0.005	516635	420972			
C16	5.828	0.007	572728	522154			
C18	6.377	0.007	469648	543214	OR.MOIL (C28-C40)	146207	16
C20	6.896	0.004	345042	340317			
C22	7.392	-0.001	129172	154500			
C24	7.870	-0.005	53265	61175			
C25	8.102	-0.008	29445	36966			
C26	8.336	-0.007	14098	15244			
C28	8.871	-0.006	2918	5402			
C32	10.022	0.003	1097	3273			
C34	10.589	0.009	409	900	BUNKERC (C10-C38)	22648404	11678
Filter Peak	11.057	-0.002	782	2196			
C36	11.112	-0.004	486.0	245	o-Terph Surrogate Rec = 118.2%		(756525)
C38	11.688	0.014	571.0	1468	Triacon Surrogate Rec = 121.0%		(747688)
C40	12.372	0.008	536	1149			
o-terph	6.563	0.006	850121	756525			
Triacon Surr	9.467	0.005	585858	747688			

93.5

Range Times: NW Diesel(4.634 - 7.874) AK102(3.87 - 8.11) Jet A(3.87 - 6.37)
NW M.Oil(7.87 - 11.67) AK103(8.11 - 11.12) OR Diesel(3.87 - 8.88)



Data File: /chem3/fid3b.i/20041202.b/1202b031.d

Date : 02-DEC-2004 22:08

Client ID:

Sample Info: HJ95LCSW1

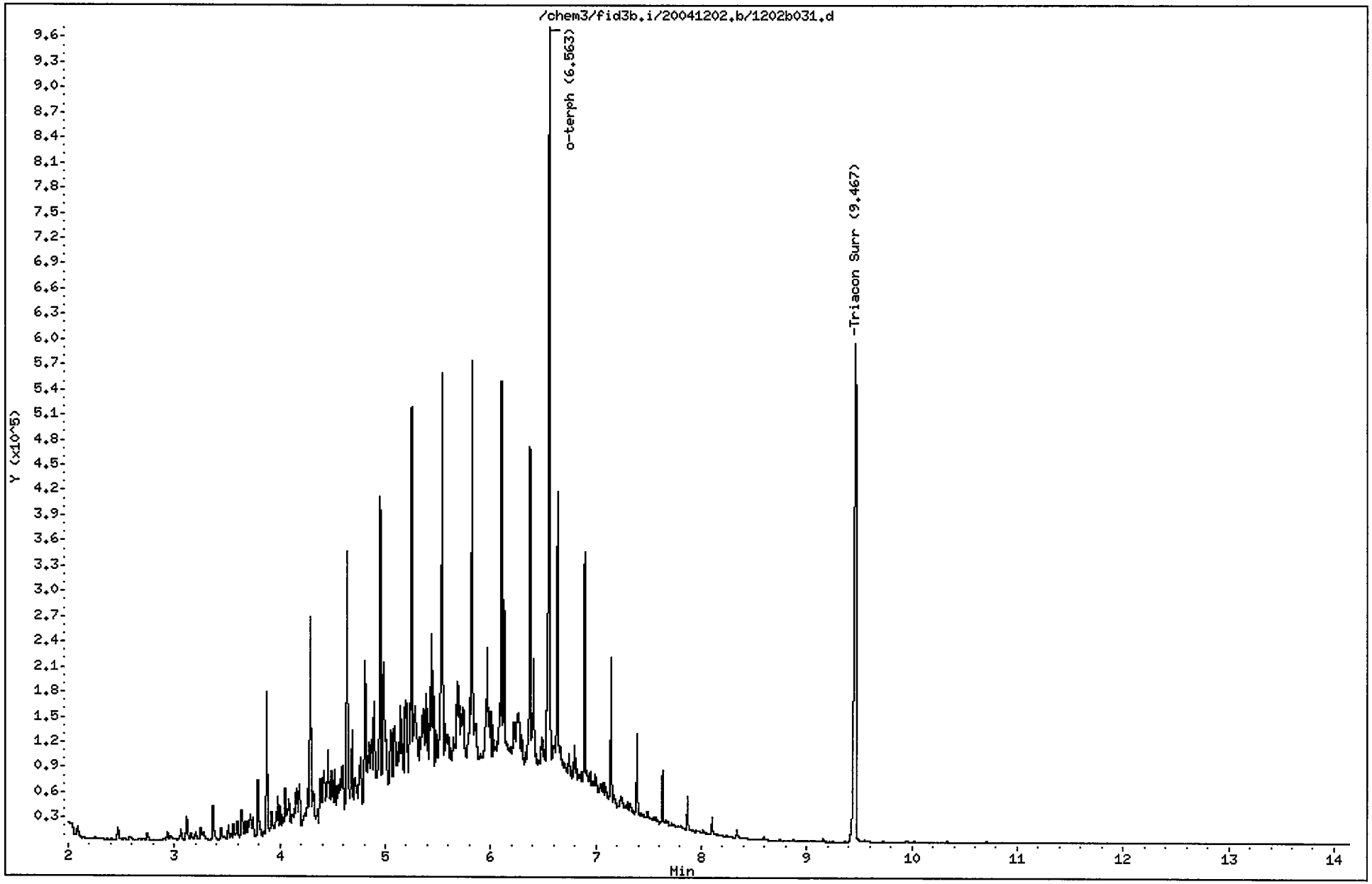
Column phase: RTX-1

Instrument: fid3b.i

Operator: AR

Column diameter: 2.00

000266



ANALYTICAL RESOURCES INCORPORATED

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009

Client ID	O-TER	TOT OUT
MB-112904	101%	0
LCS-112904	118%	0
MW-111	70.4%	0
MW-111 MS	71.1%	0
MW-111 MSD	107%	0
MW-101	88.0%	0
MW-105	110%	0
MW-106	96.0%	0
MW-107	90.2%	0
MW-202	98.2%	0
MW-102	80.7%	0
MW-104	77.3%	0
MW-103	96.0%	0
MW-108	91.6%	0
MW-112	88.9%	0
MW-109	90.2%	0
MW-110	88.0%	0

	LCS/MB LIMITS	QC LIMITS
(O-TER) = o-Terphenyl	(54-131)	(46-123)

Prep Method: SW3510C
Log Number Range: 04-20656 to 04-20668

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

ARI Job: HJ95
Matrix: Water Project: Port of Anacortes (POA)
Date Received: 11/24/04 529009

ARI ID	Client ID	Client Amt	Final Vol	Prep Date
04-20656-112904MB1	Method Blank	500 mL	1.00 mL	11/29/04
04-20656-112904LCS1	Lab Control	500 mL	1.00 mL	11/29/04
04-20656-HJ95A	MW-111	500 mL	1.00 mL	11/29/04
04-20656-HJ95AMS	MW-111	500 mL	1.00 mL	11/29/04
04-20656-HJ95AMSD	MW-111	500 mL	1.00 mL	11/29/04
04-20657-HJ95B	MW-101	500 mL	1.00 mL	11/29/04
04-20658-HJ95C	MW-105	500 mL	1.00 mL	11/29/04
04-20659-HJ95D	MW-106	500 mL	1.00 mL	11/29/04
04-20660-HJ95E	MW-107	500 mL	1.00 mL	11/29/04
04-20661-HJ95F	MW-202	500 mL	1.00 mL	11/29/04
04-20662-HJ95G	MW-102	500 mL	1.00 mL	11/29/04
04-20663-HJ95H	MW-104	500 mL	1.00 mL	11/29/04
04-20664-HJ95I	MW-103	500 mL	1.00 mL	11/29/04
04-20665-HJ95J	MW-108	500 mL	1.00 mL	11/29/04
04-20666-HJ95K	MW-112	500 mL	1.00 mL	11/29/04
04-20667-HJ95L	MW-109	500 mL	1.00 mL	11/29/04
04-20668-HJ95M	MW-110	500 mL	1.00 mL	11/29/04

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: METHOD BLANK**

Lab Sample ID: HJ95MB
LIMS ID: 04-20657
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA) 529009
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/01/04	7440-36-0	Antimony	0.2	0.2	U
200.8	11/30/04	200.8	12/01/04	7440-38-2	Arsenic	0.2	0.2	U
200.8	11/30/04	200.8	12/01/04	7440-43-9	Cadmium	0.2	0.2	U
200.8	11/30/04	200.8	12/01/04	7440-50-8	Copper	0.5	0.5	U
200.8	11/30/04	200.8	12/01/04	7439-92-1	Lead	1	1	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/01/04	7440-02-0	Nickel	0.5	0.5	U
200.8	11/30/04	200.8	12/01/04	7440-28-0	Thallium	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS **Sample ID: MW-111**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/01/04	7440-36-0	Antimony	0.2	0.2	U
200.8	11/30/04	200.8	12/01/04	**7440-38-2**	**Arsenic**	0.5	**6.8**	
200.8	11/30/04	200.8	12/01/04	7440-43-9	Cadmium	0.2	0.2	U
200.8	11/30/04	200.8	12/01/04	**7440-50-8**	**Copper**	0.5	**2.2**	
200.8	11/30/04	200.8	12/01/04	7439-92-1	Lead	1	1	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/01/04	**7440-02-0**	**Nickel**	0.5	**3.2**	
200.8	11/30/04	200.8	12/01/04	7440-28-0	Thallium	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: MW-111
DUPLICATE

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Antimony	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Arsenic	200.8	6.8	7.0	2.9%	+/- 20%	
Cadmium	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Copper	200.8	2.2	2.5	12.8%	+/- 0.5	L
Lead	200.8	1 U	1 U	0.0%	+/- 1	L
Mercury	7470A	0.1 U	0.1 U	0.0%	+/- 0.1	L
Nickel	200.8	3.2	3.3	3.1%	+/- 20%	
Thallium	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L

Reported in µg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: MW-111
MATRIX SPIKE

Lab Sample ID: HJ95A
LIMS ID: 04-20656
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Antimony	200.8	0.200 U	24.8	25.0	99.2%	
Arsenic	200.8	6.78	30.3	25.0	94.1%	
Cadmium	200.8	0.200 U	23.5	25.0	94.0%	
Copper	200.8	2.17	24.3	25.0	88.5%	
Lead	200.8	1.00 U	23.6	25.0	94.4%	
Mercury	7470A	0.100 U	1.02	1.00	102%	
Nickel	200.8	3.17	26.1	25.0	91.7%	
Thallium	200.8	0.200 U	23.0	25.0	92.0%	

Reported in µg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: MW-101
SAMPLE

Lab Sample ID: HJ95B
LIMS ID: 04-20657
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/01/04	**7440-36-0**	**Antimony**	0.2	**0.3**	
200.8	11/30/04	200.8	12/01/04	**7440-38-2**	**Arsenic**	0.5	**1.4**	
200.8	11/30/04	200.8	12/01/04	7440-43-9	Cadmium	0.2	0.2	U
200.8	11/30/04	200.8	12/01/04	**7440-50-8**	**Copper**	0.5	**2.6**	
200.8	11/30/04	200.8	12/01/04	7439-92-1	Lead	1	1	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/01/04	**7440-02-0**	**Nickel**	0.5	**5.3**	
200.8	11/30/04	200.8	12/01/04	7440-28-0	Thallium	0.2	0.2	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: MW-105
SAMPLE

Lab Sample ID: HJ95C
LIMS ID: 04-20658
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/06/04	7440-36-0	Antimony	1	1	U
200.8	11/30/04	200.8	12/07/04	7440-38-2	Arsenic	5	5	U
200.8	11/30/04	200.8	12/06/04	7440-43-9	Cadmium	1	1	U
200.8	11/30/04	200.8	12/06/04	**7440-50-8**	**Copper**	2	**14**	
200.8	11/30/04	200.8	12/06/04	7439-92-1	Lead	5	5	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/06/04	**7440-02-0**	**Nickel**	2	**15**	
200.8	11/30/04	200.8	12/06/04	7440-28-0	Thallium	1	1	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: MW-106
SAMPLE

Lab Sample ID: HJ95D
LIMS ID: 04-20659
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/01/04	7440-36-0	Antimony	0.2	0.2	U
200.8	11/30/04	200.8	12/01/04	**7440-38-2**	**Arsenic**	0.2	**1.7**	
200.8	11/30/04	200.8	12/01/04	7440-43-9	Cadmium	0.2	0.2	U
200.8	11/30/04	200.8	12/01/04	**7440-50-8**	**Copper**	0.5	**4.8**	
200.8	11/30/04	200.8	12/01/04	7439-92-1	Lead	1	1	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/01/04	**7440-02-0**	**Nickel**	0.5	**6.1**	
200.8	11/30/04	200.8	12/01/04	7440-28-0	Thallium	0.2	0.2	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: MW-107
SAMPLE

Lab Sample ID: HJ95E
LIMS ID: 04-20660
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/01/04	**7440-36-0**	**Antimony**	0.2	**0.5**	
200.8	11/30/04	200.8	12/01/04	**7440-38-2**	**Arsenic**	0.5	**1.1**	
200.8	11/30/04	200.8	12/01/04	7440-43-9	Cadmium	0.2	0.2	U
200.8	11/30/04	200.8	12/01/04	**7440-50-8**	**Copper**	0.5	**1.6**	
200.8	11/30/04	200.8	12/01/04	7439-92-1	Lead	1	1	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/01/04	**7440-02-0**	**Nickel**	0.5	**4.8**	
200.8	11/30/04	200.8	12/01/04	7440-28-0	Thallium	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

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Sample ID: MW-202
SAMPLE

Lab Sample ID: HJ95F
LIMS ID: 04-20661
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/01/04	**7440-36-0**	**Antimony**	0.2	**0.5**	
200.8	11/30/04	200.8	12/01/04	**7440-38-2**	**Arsenic**	0.5	**54.9**	
200.8	11/30/04	200.8	12/01/04	7440-43-9	Cadmium	0.2	0.2	U
200.8	11/30/04	200.8	12/01/04	**7440-50-8**	**Copper**	0.5	**1.5**	
200.8	11/30/04	200.8	12/01/04	7439-92-1	Lead	1	1	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/01/04	**7440-02-0**	**Nickel**	0.5	**11.5**	
200.8	11/30/04	200.8	12/01/04	7440-28-0	Thallium	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

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Sample ID: MW-102
SAMPLE

Lab Sample ID: HJ95G
LIMS ID: 04-20662
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA) 529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/01/04	**7440-36-0**	**Antimony**	0.2	**0.5**	
200.8	11/30/04	200.8	12/01/04	**7440-38-2**	**Arsenic**	0.5	**31.3**	
200.8	11/30/04	200.8	12/01/04	7440-43-9	Cadmium	0.2	0.2	U
200.8	11/30/04	200.8	12/01/04	**7440-50-8**	**Copper**	0.5	**1.8**	
200.8	11/30/04	200.8	12/01/04	7439-92-1	Lead	1	1	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/01/04	**7440-02-0**	**Nickel**	0.5	**11.0**	
200.8	11/30/04	200.8	12/01/04	7440-28-0	Thallium	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

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Sample ID: MW-104
SAMPLE

Lab Sample ID: HJ95H
LIMS ID: 04-20663
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/01/04	**7440-36-0**	**Antimony**	0.2	**0.5**	
200.8	11/30/04	200.8	12/01/04	**7440-38-2**	**Arsenic**	0.2	**1.7**	
200.8	11/30/04	200.8	12/01/04	7440-43-9	Cadmium	0.2	0.2	U
200.8	11/30/04	200.8	12/06/04	**7440-50-8**	**Copper**	0.5	**1.3**	
200.8	11/30/04	200.8	12/01/04	7439-92-1	Lead	1	1	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/01/04	**7440-02-0**	**Nickel**	0.5	**2.5**	
200.8	11/30/04	200.8	12/01/04	7440-28-0	Thallium	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

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Sample ID: MW-103
SAMPLE

Lab Sample ID: HJ95I
LIMS ID: 04-20664
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/01/04	**7440-36-0**	**Antimony**	0.2	**0.4**	
200.8	11/30/04	200.8	12/01/04	**7440-38-2**	**Arsenic**	0.5	**2.3**	
200.8	11/30/04	200.8	12/01/04	7440-43-9	Cadmium	0.2	0.2	U
200.8	11/30/04	200.8	12/01/04	**7440-50-8**	**Copper**	0.5	**1.3**	
200.8	11/30/04	200.8	12/01/04	7439-92-1	Lead	1	1	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/01/04	**7440-02-0**	**Nickel**	0.5	**8.0**	
200.8	11/30/04	200.8	12/01/04	7440-28-0	Thallium	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

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Sample ID: MW-108
SAMPLE

Lab Sample ID: HJ95J
LIMS ID: 04-20665
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/01/04	**7440-36-0**	**Antimony**	0.2	**0.2**	
200.8	11/30/04	200.8	12/01/04	7440-38-2	Arsenic	0.5	0.5	U
200.8	11/30/04	200.8	12/01/04	7440-43-9	Cadmium	0.2	0.2	U
200.8	11/30/04	200.8	12/01/04	**7440-50-8**	**Copper**	0.5	**3.3**	
200.8	11/30/04	200.8	12/01/04	**7439-92-1**	**Lead**	1	**1**	
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/01/04	**7440-02-0**	**Nickel**	0.5	**2.8**	
200.8	11/30/04	200.8	12/01/04	7440-28-0	Thallium	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

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INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
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Sample ID: MW-112
SAMPLE

Lab Sample ID: HJ95K
LIMS ID: 04-20666
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA) 529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/01/04	**7440-36-0**	**Antimony**	0.2	**0.3**	
200.8	11/30/04	200.8	12/01/04	**7440-38-2**	**Arsenic**	0.2	**6.9**	
200.8	11/30/04	200.8	12/01/04	7440-43-9	Cadmium	0.2	0.2	U
200.8	11/30/04	200.8	12/01/04	**7440-50-8**	**Copper**	0.5	**3.1**	
200.8	11/30/04	200.8	12/01/04	7439-92-1	Lead	1	1	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/01/04	**7440-02-0**	**Nickel**	0.5	**2.2**	
200.8	11/30/04	200.8	12/01/04	7440-28-0	Thallium	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

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INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
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Sample ID: MW-109
SAMPLE

Lab Sample ID: HJ95L
LIMS ID: 04-20667
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/01/04	**7440-36-0**	**Antimony**	0.2	**0.2**	
200.8	11/30/04	200.8	12/01/04	**7440-38-2**	**Arsenic**	0.5	**1.6**	
200.8	11/30/04	200.8	12/01/04	7440-43-9	Cadmium	0.2	0.2	U
200.8	11/30/04	200.8	12/01/04	**7440-50-8**	**Copper**	0.5	**2.4**	
200.8	11/30/04	200.8	12/01/04	7439-92-1	Lead	1	1	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/01/04	**7440-02-0**	**Nickel**	0.5	**6.6**	
200.8	11/30/04	200.8	12/01/04	7440-28-0	Thallium	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

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Sample ID: MW-110
SAMPLE

Lab Sample ID: HJ95M
LIMS ID: 04-20668
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/01/04	7440-36-0	Antimony	0.2	0.2	U
200.8	11/30/04	200.8	12/01/04	**7440-38-2**	**Arsenic**	0.5	**4.4**	
200.8	11/30/04	200.8	12/01/04	7440-43-9	Cadmium	0.2	0.2	U
200.8	11/30/04	200.8	12/01/04	**7440-50-8**	**Copper**	0.5	**1.2**	
200.8	11/30/04	200.8	12/01/04	7439-92-1	Lead	1	1	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/01/04	**7440-02-0**	**Nickel**	0.5	**4.4**	
200.8	11/30/04	200.8	12/01/04	7440-28-0	Thallium	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

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INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
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Sample ID: LAB CONTROL

Lab Sample ID: HJ95LCS
LIMS ID: 04-20657
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA) 529009
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Antimony	200.8	25.2	25.0	101%	
Arsenic	200.8	24.9	25.0	99.6%	
Cadmium	200.8	24.9	25.0	99.6%	
Copper	200.8	25.5	25.0	102%	
Lead	200.8	26.4	25.0	106%	
Mercury	7470A	2.15	2.00	108%	
Nickel	200.8	25.7	25.0	103%	
Thallium	200.8	26.3	25.0	105%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS **Sample ID: METHOD BLANK**

Lab Sample ID: HJ95MB
LIMS ID: 04-20671
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA) 529009
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/01/04	7440-36-0	Antimony	0.2	0.2	U
200.8	11/30/04	200.8	12/01/04	7440-38-2	Arsenic	0.2	0.2	U
200.8	11/30/04	200.8	12/01/04	7440-43-9	Cadmium	0.2	0.2	U
200.8	11/30/04	200.8	12/01/04	7440-50-8	Copper	0.5	0.5	U
200.8	11/30/04	200.8	12/01/04	7439-92-1	Lead	1	1	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/01/04	7440-02-0	Nickel	0.5	0.5	U
200.8	11/30/04	200.8	12/01/04	7440-28-0	Thallium	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

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INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: MW-111
SAMPLE

Lab Sample ID: HJ95O
LIMS ID: 04-20670
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/02/04	7440-36-0	Antimony	0.2	0.2	U
200.8	11/30/04	200.8	12/02/04	**7440-38-2**	**Arsenic**	0.5	**8.7**	
200.8	11/30/04	200.8	12/02/04	7440-43-9	Cadmium	0.2	0.2	U
200.8	11/30/04	200.8	12/02/04	**7440-50-8**	**Copper**	0.5	**1.6**	
200.8	11/30/04	200.8	12/02/04	7439-92-1	Lead	1	1	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/02/04	**7440-02-0**	**Nickel**	0.5	**3.1**	
200.8	11/30/04	200.8	12/02/04	7440-28-0	Thallium	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: MW-111
DUPLICATE

Lab Sample ID: HJ95O
LIMS ID: 04-20670
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Antimony	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Arsenic	200.8	8.7	8.4	3.5%	+/- 20%	
Cadmium	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Copper	200.8	1.6	1.7	6.1%	+/- 0.5	L
Lead	200.8	1 U	1 U	0.0%	+/- 1	L
Mercury	7470A	0.1 U	0.1 U	0.0%	+/- 0.1	L
Nickel	200.8	3.1	3.2	3.2%	+/- 20%	
Thallium	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L

Reported in µg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: MW-111
MATRIX SPIKE

Lab Sample ID: HJ95O
LIMS ID: 04-20670
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Antimony	200.8	0.2 U	25.8	25.0	103%	
Arsenic	200.8	8.7	32.0	25.0	93.2%	
Cadmium	200.8	0.2 U	22.5	25.0	90.0%	
Copper	200.8	1.6	24.1	25.0	90.0%	
Lead	200.8	1 U	25	25	100%	
Mercury	7470A	0.1 U	1.0	1.0	100%	
Nickel	200.8	3.1	26.0	25.0	91.6%	
Thallium	200.8	0.2 U	23.5	25.0	94.0%	

Reported in µg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

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INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: MW-101
SAMPLE

Lab Sample ID: HJ95P
LIMS ID: 04-20671
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/02/04	7440-36-0	Antimony	0.2	0.2	U
200.8	11/30/04	200.8	12/02/04	**7440-38-2**	**Arsenic**	0.5	**2.0**	
200.8	11/30/04	200.8	12/02/04	7440-43-9	Cadmium	0.2	0.2	U
200.8	11/30/04	200.8	12/02/04	**7440-50-8**	**Copper**	0.5	**1.9**	
200.8	11/30/04	200.8	12/06/04	7439-92-1	Lead	1	1	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/02/04	**7440-02-0**	**Nickel**	0.5	**5.7**	
200.8	11/30/04	200.8	12/06/04	7440-28-0	Thallium	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

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DISSOLVED METALS
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Sample ID: MW-105
SAMPLE

Lab Sample ID: HJ95Q
LIMS ID: 04-20672
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/02/04	7440-36-0	Antimony	0.5	0.5	U
200.8	11/30/04	200.8	12/07/04	7440-38-2	Arsenic	5	5	U
200.8	11/30/04	200.8	12/02/04	7440-43-9	Cadmium	0.5	0.5	U
200.8	11/30/04	200.8	12/02/04	**7440-50-8**	**Copper**	1	**8**	
200.8	11/30/04	200.8	12/06/04	7439-92-1	Lead	5	5	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/02/04	**7440-02-0**	**Nickel**	1	**10**	
200.8	11/30/04	200.8	12/06/04	7440-28-0	Thallium	1	1	U

U-Analyte undetected at given RL
RL-Reporting Limit

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DISSOLVED METALS
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Sample ID: MW-106
SAMPLE

Lab Sample ID: HJ95R
LIMS ID: 04-20673
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/06/04	7440-36-0	Antimony	0.5	0.5	U
200.8	11/30/04	200.8	12/07/04	**7440-38-2**	**Arsenic**	2	**4**	
200.8	11/30/04	200.8	12/06/04	7440-43-9	Cadmium	0.5	0.5	U
200.8	11/30/04	200.8	12/06/04	**7440-50-8**	**Copper**	1	**8**	
200.8	11/30/04	200.8	12/06/04	7439-92-1	Lead	2	2	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/06/04	**7440-02-0**	**Nickel**	1	**14**	
200.8	11/30/04	200.8	12/06/04	7440-28-0	Thallium	0.5	0.5	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
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Sample ID: MW-107
SAMPLE

Lab Sample ID: HJ95S
LIMS ID: 04-20674
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/02/04	**7440-36-0**	**Antimony**	0.2	**0.4**	
200.8	11/30/04	200.8	12/02/04	**7440-38-2**	**Arsenic**	0.5	**1.3**	
200.8	11/30/04	200.8	12/02/04	7440-43-9	Cadmium	0.2	0.2	U
200.8	11/30/04	200.8	12/02/04	**7440-50-8**	**Copper**	0.5	**1.6**	
200.8	11/30/04	200.8	12/06/04	7439-92-1	Lead	1	1	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/02/04	**7440-02-0**	**Nickel**	0.5	**7.0**	
200.8	11/30/04	200.8	12/06/04	7440-28-0	Thallium	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: MW-202
SAMPLE

Lab Sample ID: HJ95T
LIMS ID: 04-20675
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/02/04	**7440-36-0**	**Antimony**	0.2	**0.5**	
200.8	11/30/04	200.8	12/02/04	**7440-38-2**	**Arsenic**	0.5	**27.6**	
200.8	11/30/04	200.8	12/02/04	7440-43-9	Cadmium	0.2	0.2	U
200.8	11/30/04	200.8	12/02/04	**7440-50-8**	**Copper**	0.5	**1.5**	
200.8	11/30/04	200.8	12/06/04	7439-92-1	Lead	1	1	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/02/04	**7440-02-0**	**Nickel**	0.5	**10.3**	
200.8	11/30/04	200.8	12/06/04	7440-28-0	Thallium	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: MW-102
SAMPLE

Lab Sample ID: HJ95U
LIMS ID: 04-20676
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/02/04	**7440-36-0**	**Antimony**	0.2	**0.5**	
200.8	11/30/04	200.8	12/02/04	**7440-38-2**	**Arsenic**	0.5	**31.0**	
200.8	11/30/04	200.8	12/02/04	7440-43-9	Cadmium	0.2	0.2	U
200.8	11/30/04	200.8	12/02/04	**7440-50-8**	**Copper**	0.5	**1.4**	
200.8	11/30/04	200.8	12/06/04	7439-92-1	Lead	1	1	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/02/04	**7440-02-0**	**Nickel**	0.5	**9.9**	
200.8	11/30/04	200.8	12/06/04	7440-28-0	Thallium	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: MW-104
SAMPLE

Lab Sample ID: HJ95V
LIMS ID: 04-20677
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/02/04	**7440-36-0**	**Antimony**	0.2	**0.5**	
200.8	11/30/04	200.8	12/02/04	**7440-38-2**	**Arsenic**	0.2	**1.8**	
200.8	11/30/04	200.8	12/02/04	7440-43-9	Cadmium	0.2	0.2	U
200.8	11/30/04	200.8	12/02/04	7440-50-8	Copper	0.5	0.5	U
200.8	11/30/04	200.8	12/02/04	7439-92-1	Lead	1	1	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/07/04	7440-02-0	Nickel	1	1	U
200.8	11/30/04	200.8	12/02/04	7440-28-0	Thallium	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: MW-103
SAMPLE

Lab Sample ID: HJ95W
LIMS ID: 04-20678
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/02/04	**7440-36-0**	**Antimony**	0.2	**0.4**	
200.8	11/30/04	200.8	12/02/04	**7440-38-2**	**Arsenic**	0.5	**2.5**	
200.8	11/30/04	200.8	12/02/04	7440-43-9	Cadmium	0.2	0.2	U
200.8	11/30/04	200.8	12/06/04	**7440-50-8**	**Copper**	0.5	**1.4**	
200.8	11/30/04	200.8	12/06/04	7439-92-1	Lead	1	1	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/06/04	**7440-02-0**	**Nickel**	0.5	**11.1**	
200.8	11/30/04	200.8	12/06/04	7440-28-0	Thallium	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: MW-108
SAMPLE

Lab Sample ID: HJ95X
LIMS ID: 04-20679
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/02/04	7440-36-0	Antimony	0.2	0.2	U
200.8	11/30/04	200.8	12/02/04	7440-38-2	Arsenic	0.5	0.5	U
200.8	11/30/04	200.8	12/02/04	7440-43-9	Cadmium	0.2	0.2	U
200.8	11/30/04	200.8	12/06/04	**7440-50-8**	**Copper**	0.5	**0.7**	
200.8	11/30/04	200.8	12/06/04	7439-92-1	Lead	1	1	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/07/04	**7440-02-0**	**Nickel**	1	**1**	
200.8	11/30/04	200.8	12/06/04	7440-28-0	Thallium	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
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Sample ID: MW-112
SAMPLE

Lab Sample ID: HJ95Y
LIMS ID: 04-20680
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/02/04	**7440-36-0**	**Antimony**	0.2	**0.2**	
200.8	11/30/04	200.8	12/02/04	**7440-38-2**	**Arsenic**	0.5	**6.5**	
200.8	11/30/04	200.8	12/02/04	7440-43-9	Cadmium	0.2	0.2	U
200.8	11/30/04	200.8	12/06/04	**7440-50-8**	**Copper**	0.5	**0.6**	
200.8	11/30/04	200.8	12/02/04	7439-92-1	Lead	1	1	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/06/04	**7440-02-0**	**Nickel**	0.5	**3.2**	
200.8	11/30/04	200.8	12/02/04	7440-28-0	Thallium	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
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Sample ID: MW-109
SAMPLE

Lab Sample ID: HJ95Z
LIMS ID: 04-20681
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/02/04	7440-36-0	Antimony	0.2	0.2	U
200.8	11/30/04	200.8	12/02/04	**7440-38-2**	**Arsenic**	0.5	**1.2**	
200.8	11/30/04	200.8	12/02/04	7440-43-9	Cadmium	0.2	0.2	U
200.8	11/30/04	200.8	12/06/04	**7440-50-8**	**Copper**	0.5	**1.0**	
200.8	11/30/04	200.8	12/06/04	7439-92-1	Lead	1	1	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/07/04	**7440-02-0**	**Nickel**	1	**2**	
200.8	11/30/04	200.8	12/06/04	7440-28-0	Thallium	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
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Sample ID: MW-110
SAMPLE

Lab Sample ID: HJ95AA
LIMS ID: 04-20682
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	11/30/04	200.8	12/02/04	7440-36-0	Antimony	0.2	0.2	U
200.8	11/30/04	200.8	12/02/04	**7440-38-2**	**Arsenic**	0.5	**3.8**	
200.8	11/30/04	200.8	12/02/04	7440-43-9	Cadmium	0.2	0.2	U
200.8	11/30/04	200.8	12/02/04	**7440-50-8**	**Copper**	0.5	**0.9**	
200.8	11/30/04	200.8	12/06/04	7439-92-1	Lead	1	1	U
7470	11/30/04	7470A	11/30/04	7439-97-6	Mercury	0.1	0.1	U
200.8	11/30/04	200.8	12/02/04	**7440-02-0**	**Nickel**	0.5	**4.6**	
200.8	11/30/04	200.8	12/06/04	7440-28-0	Thallium	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS **Sample ID: LAB CONTROL**

Lab Sample ID: HJ95LCS
LIMS ID: 04-20671
Matrix: Water
Data Release Authorized:
Reported: 12/08/04

QC Report No: HJ95-Landau Associates
Project: Port of Anacortes (POA)
529009
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Antimony	200.8	26.1	25.0	104%	
Arsenic	200.8	25.4	25.0	102%	
Cadmium	200.8	26.0	25.0	104%	
Copper	200.8	26.5	25.0	106%	
Lead	200.8	27	25	108%	
Mercury	7470A	2.1	2.0	105%	
Nickel	200.8	26.2	25.0	105%	
Thallium	200.8	26.5	25.0	106%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

METHOD BLANK RESULTS-CONVENTIONALS
HJ95-Landau Associates

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: aap
Reported: 12/10/04

Project: Port of Anacortes (POA)
Event: 529009
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Chloride	11/30/04	mg/L	< 1.0 U
N-Ammonia	12/08/04	mg-N/L	< 0.010 U
N-Nitrite	11/24/04	mg-N/L	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	11/24/04	mg-N/L	< 0.010 U
Sulfate	12/09/04	mg/L	< 2.0 U
Sulfide	11/29/04	mg/L	< 0.05 U
Phenol	12/01/04	mg/L	< 0.04 U

SAMPLE RESULTS-CONVENTIONALS
HJ95-Landau Associates

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ark
Reported: 12/10/04

Project: Port of Anacortes (POA)
Event: 529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Client ID: MW-111
ARI ID: 04-20656 HJ95A

Analyte	Date Batch	Method	Units	RL	Sample
Chloride	11/30/04 113004#2	EPA 325.2	mg/L	200	1,100
N-Ammonia	12/08/04 120804#1	EPA 350.1M	mg-N/L	0.050	3.70
N-Nitrate	11/24/04	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Sulfate	12/09/04 120904#1	EPA 375.2	mg/L	20.0	225
Sulfide	11/29/04 112904#1	EPA 376.2	mg/L	0.05	< 0.05 U
Phenol	12/01/04 120104#1	EPA 420.1	mg/L	0.04	< 0.04 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HJ95-Landau Associates

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ap
Reported: 12/10/04

Project: Port of Anacortes (POA)
Event: 529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Client ID: MW-101
ARI ID: 04-20657 HJ95B

Analyte	Date Batch	Method	Units	RL	Sample
Chloride	11/30/04 113004#2	EPA 325.2	mg/L	500	3,770
N-Ammonia	12/08/04 120804#1	EPA 350.1M	mg-N/L	0.100	7.98
N-Nitrate	11/24/04	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	0.072
Nitrate + Nitrite (NO3+NO2)	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	0.045
Sulfate	12/09/04 120904#1	EPA 375.2	mg/L	20.0	310
Sulfide	11/29/04 112904#1	EPA 376.2	mg/L	1.00	17.3
Phenol	12/01/04 120104#1	EPA 420.1	mg/L	0.04	< 0.04 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HJ95-Landau Associates

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: qh
Reported: 12/10/04

Project: Port of Anacortes (POA)
Event: 529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Client ID: MW-105
ARI ID: 04-20658 HJ95C

Analyte	Date Batch	Method	Units	RL	Sample
Chloride	11/30/04 113004#2	EPA 325.2	mg/L	2,000	< 2,000 U
N-Ammonia	12/08/04 120804#1	EPA 350.1M	mg-N/L	0.010	0.214
N-Nitrate	11/24/04	Calculated	mg-N/L	0.010	0.013
N-Nitrite	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	0.013
Sulfate	12/09/04 120904#1	EPA 375.2	mg/L	200	2,180
Sulfide	11/29/04 112904#1	EPA 376.2	mg/L	1.00	16.7
Phenol	12/01/04 120104#1	EPA 420.1	mg/L	0.04	< 0.04 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HJ95-Landau Associates

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: AP
Reported: 12/10/04

Project: Port of Anacortes (POA)
Event: 529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Client ID: MW-106
ARI ID: 04-20659 HJ95D

Analyte	Date Batch	Method	Units	RL	Sample
Chloride	11/30/04 113004#2	EPA 325.2	mg/L	2,000	< 2,000 U
N-Ammonia	12/08/04 120804#1	EPA 350.1M	mg-N/L	0.010	0.522
N-Nitrate	11/24/04	Calculated	mg-N/L	0.010	0.011
N-Nitrite	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	0.011
Sulfate	12/09/04 120904#1	EPA 375.2	mg/L	100	187
Sulfide	11/29/04 112904#1	EPA 376.2	mg/L	0.50	2.24
Phenol	12/01/04 120104#1	EPA 420.1	mg/L	0.04	< 0.04 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HJ95-Landau Associates

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: QAP
Reported: 12/10/04

Project: Port of Anacortes (POA)
Event: 529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Client ID: MW-107
ARI ID: 04-20660 HJ95E

Analyte	Date Batch	Method	Units	RL	Sample
Chloride	11/30/04 113004#2	EPA 325.2	mg/L	100	848
N-Ammonia	12/08/04 120804#1	EPA 350.1M	mg-N/L	0.050	2.06
N-Nitrate	11/24/04	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Sulfate	12/09/04 120904#1	EPA 375.2	mg/L	4.0	58.9
Sulfide	11/29/04 112904#1	EPA 376.2	mg/L	0.05	0.50
Phenol	12/01/04 120104#1	EPA 420.1	mg/L	0.04	< 0.04 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HJ95-Landau Associates

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ark
Reported: 12/10/04

Project: Port of Anacortes (POA)
Event: 529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Client ID: MW-202
ARI ID: 04-20661 HJ95F

Analyte	Date Batch	Method	Units	RL	Sample
Chloride	11/30/04 113004#2	EPA 325.2	mg/L	200	1,720
N-Ammonia	12/08/04 120804#1	EPA 350.1M	mg-N/L	0.200	15.7
N-Nitrate	11/24/04	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Sulfate	12/09/04 120904#1	EPA 375.2	mg/L	2.0	37.2
Sulfide	11/29/04 112904#1	EPA 376.2	mg/L	0.05	< 0.05 U
Phenol	12/01/04 120104#1	EPA 420.1	mg/L	0.04	< 0.04 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HJ95-Landau Associates

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ap
Reported: 12/10/04

Project: Port of Anacortes (POA)
Event: 529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Client ID: MW-102
ARI ID: 04-20662 HJ95G

Analyte	Date Batch	Method	Units	RL	Sample
Chloride	11/30/04 113004#2	EPA 325.2	mg/L	500	3,010
N-Ammonia	12/08/04 120804#1	EPA 350.1M	mg-N/L	0.200	11.5
N-Nitrate	11/24/04	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	0.010
Nitrate + Nitrite (NO3+NO2)	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	0.011
Sulfate	12/09/04 120904#1	EPA 375.2	mg/L	20.0	117
Sulfide	11/29/04 112904#1	EPA 376.2	mg/L	0.05	< 0.05 U
Phenol	12/01/04 120104#1	EPA 420.1	mg/L	0.04	< 0.04 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HJ95-Landau Associates

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: QAP
Reported: 12/10/04

Project: Port of Anacortes (POA)
Event: 529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Client ID: MW-104
ARI ID: 04-20663 HJ95H

Analyte	Date Batch	Method	Units	RL	Sample
Chloride	11/30/04 113004#2	EPA 325.2	mg/L	5.0	24.4
N-Ammonia	12/08/04 120804#1	EPA 350.1M	mg-N/L	0.050	3.58
N-Nitrate	11/24/04	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Sulfate	12/09/04 120904#1	EPA 375.2	mg/L	2.0	3.6
Sulfide	11/29/04 112904#1	EPA 376.2	mg/L	0.05	< 0.05 U
Phenol	12/01/04 120104#1	EPA 420.1	mg/L	0.04	< 0.04 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HJ95-Landau Associates

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: qap
Reported: 12/10/04

Project: Port of Anacortes (POA)
Event: 529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Client ID: MW-103
ARI ID: 04-20664 HJ95I

Analyte	Date Batch	Method	Units	RL	Sample
Chloride	11/30/04 113004#2	EPA 325.2	mg/L	100	540
N-Ammonia	12/08/04 120804#1	EPA 350.1M	mg-N/L	0.200	9.21
N-Nitrate	11/24/04	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Sulfate	12/09/04 120904#1	EPA 375.2	mg/L	2.0	37.1
Sulfide	11/29/04 112904#1	EPA 376.2	mg/L	0.05	< 0.05 U
Phenol	12/01/04 120104#1	EPA 420.1	mg/L	0.04	< 0.04 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HJ95-Landau Associates

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: QAP
Reported: 12/10/04

Project: Port of Anacortes (POA)
Event: 529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Client ID: MW-108
ARI ID: 04-20665 HJ95J

Analyte	Date Batch	Method	Units	RL	Sample
Chloride	11/30/04 113004#2	EPA 325.2	mg/L	50.0	262
N-Ammonia	12/08/04 120804#1	EPA 350.1M	mg-N/L	0.020	1.81
N-Nitrate	11/24/04	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	0.010
Nitrate + Nitrite (NO3+NO2)	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Sulfate	12/09/04 120904#1	EPA 375.2	mg/L	2.0	33.4
Sulfide	11/29/04 112904#1	EPA 376.2	mg/L	0.50	3.37
Phenol	12/01/04 120104#1	EPA 420.1	mg/L	0.04	< 0.04 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HJ95-Landau Associates

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: DLH
Reported: 12/10/04

Project: Port of Anacortes (POA)
Event: 529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Client ID: MW-112
ARI ID: 04-20666 HJ95K

Analyte	Date Batch	Method	Units	RL	Sample
Chloride	11/30/04 113004#2	EPA 325.2	mg/L	25.0	176
N-Ammonia	12/08/04 120804#1	EPA 350.1M	mg-N/L	0.050	2.67
N-Nitrate	11/24/04	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Sulfate	12/09/04 120904#1	EPA 375.2	mg/L	2.0	4.6
Sulfide	11/29/04 112904#1	EPA 376.2	mg/L	0.05	< 0.05 U
Phenol	12/01/04 120104#1	EPA 420.1	mg/L	0.04	< 0.04 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HJ95-Landau Associates

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ajp
Reported: 12/10/04

Project: Port of Anacortes (POA)
Event: 529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Client ID: MW-109
ARI ID: 04-20667 HJ95L

Analyte	Date Batch	Method	Units	RL	Sample
Chloride	11/30/04 113004#2	EPA 325.2	mg/L	50.0	324
N-Ammonia	12/08/04 120804#1	EPA 350.1M	mg-N/L	0.100	7.10
N-Nitrate	11/24/04	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Nitrate + Nitrite (NO3+NO2)	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	< 0.010 U
Sulfate	12/09/04 120904#1	EPA 375.2	mg/L	2.0	9.5
Sulfide	11/29/04 112904#1	EPA 376.2	mg/L	0.05	0.05
Phenol	12/01/04 120104#1	EPA 420.1	mg/L	0.04	< 0.04 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HJ95-Landau Associates

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: ajp
Reported: 12/10/04

Project: Port of Anacortes (POA)
Event: 529009
Date Sampled: 11/23/04
Date Received: 11/24/04

Client ID: MW-110
ARI ID: 04-20668 HJ95M

Analyte	Date Batch	Method	Units	RL	Sample
Chloride	11/30/04 113004#2	EPA 325.2	mg/L	200	1,790
N-Ammonia	12/08/04 120804#1	EPA 350.1M	mg-N/L	0.200	15.2
N-Nitrate	11/24/04	Calculated	mg-N/L	0.010	< 0.010 U
N-Nitrite	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	0.018
Nitrate + Nitrite (NO3+NO2)	11/24/04 112404#1	EPA 353.2	mg-N/L	0.010	0.014
Sulfate	12/09/04 120904#1	EPA 375.2	mg/L	2.0	19.0
Sulfide	11/29/04 112904#1	EPA 376.2	mg/L	0.50	4.91
Phenol	12/01/04 120104#1	EPA 420.1	mg/L	0.04	< 0.04 U

RL Analytical reporting limit
U Undetected at reported detection limit

LAB CONTROL RESULTS-CONVENTIONALS
HJ95-Landau Associates

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: qap
Reported: 12/10/04

Project: Port of Anacortes (POA)
Event: 529009
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Sulfide	11/29/04	mg/L	6.52	7.85	83.1%

STANDARD REFERENCE RESULTS-CONVENTIONALS
HJ95-Landau Associates

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: QA
Reported: 12/10/04

Project: Port of Anacortes (POA)
Event: 529009
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Chloride ERA #22013	11/30/04	mg/L	5.1	5.0	102.0%
N-Ammonia ERA #03043	12/08/04	mg-N/L	0.503	0.500	100.6%
N-Nitrite ERA #23034	11/24/04	mg-N/L	0.500	0.500	100.0%
Nitrate + Nitrite (NO3+NO2) ERA #20034	11/24/04	mg-N/L	0.515	0.500	103.0%
Sulfate ERA #08113	12/09/04	mg/L	26.4	25.0	105.6%
Phenol ERA 23073.2	12/01/04	mg/L	0.49	0.50	98.0%

REPLICATE RESULTS-CONVENTIONALS
HJ95-Landau Associates

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: QA
Reported: 12/10/04

Project: Port of Anacortes (POA)
Event: 529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: HJ95A Client ID: MW-111					
Chloride	11/30/04	mg/L	1,100	1,110	0.9%
N-Ammonia	12/08/04	mg-N/L	3.70	3.76	1.6%
N-Nitrite	11/24/04	mg-N/L	< 0.010	< 0.010	NA
Nitrate + Nitrite (NO3+NO2)	11/24/04	mg-N/L	< 0.010	< 0.010	NA
Sulfate	12/09/04	mg/L	225	224	0.4%
Sulfide	11/29/04	mg/L	< 0.05	0.11 < 0.05	NA
Phenol	12/01/04	mg/L	< 0.04	< 0.04	NA
ARI ID: HJ95C Client ID: MW-105					
Sulfide	11/29/04	mg/L	16.7	17.9	6.9%

MS/MSD RESULTS-CONVENTIONALS
HJ95-Landau Associates

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: qap
Reported: 12/10/04

Project: Port of Anacortes (POA)
Event: 529009
Date Sampled: 11/22/04
Date Received: 11/24/04

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: HJ95A Client ID: MW-111						
Chloride	11/30/04	mg/L	1,100	2,150	1,000	105.0%
N-Ammonia	12/08/04	mg-N/L	3.70	8.76	5.00	101.2%
N-Nitrite	11/24/04	mg-N/L	< 0.010	0.494	0.500	98.8%
Nitrate + Nitrite (NO3+NO2)	11/24/04	mg-N/L	< 0.010	0.477	0.500	95.4%
Sulfate	12/09/04	mg/L	225	406	200	90.5%
Sulfide	11/29/04	mg/L	< 0.05	5.65	7.85	72.0%
Phenol	12/01/04	mg/L	< 0.04	0.20	0.20	100.0%
ARI ID: HJ95C Client ID: MW-105						
Sulfide	11/29/04	mg/L	16.7	25.4	7.85	110.8%

AQUATIC RESEARCH INCORPORATED

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER: ARI096-66 **PAGE 1**
REPORT DATE: 12/10/04
DATE SAMPLED: 11/22,23/04 **DATE RECEIVED:** 11/24/04
FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER SAMPLES FROM ANALYTICAL RESOURCES / HJ95

CASE NARRATIVE

Thirteen water samples were received by the laboratory in good condition. The samples were analyzed according to the chain-of-custody. No difficulties were encountered in the preparation or analysis of these samples. Sample data follows while QA/QC data is contained on the subsequent page.

SAMPLE DATA

SAMPLE ID	LAB ID	TANNINS/LIGNINS (mg/l)
MW-111	04-20656-HJ95A	5.39
MW-101	04-20657-HJ95B	10.2
MW-105	04-20658-HJ95C	0.501
MW-106	04-20659-HJ95D	0.913
MW-107	04-20660-HJ95E	2.09
MW-202	04-20661-HJ95F	14.2
MW-102	04-20662-HJ95G	15.8
MW-104	04-20663-HJ95H	2.71
MW-103	04-20664-HJ95I	6.21
MW-108	04-20665-HJ95J	5.43
MW-112	04-20666-HJ95K	3.13
MW-109	04-20667-HJ95L	6.40
MW-110	04-20668-HJ95M	12.3

AQUATIC RESEARCH INCORPORATED

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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CASE FILE NUMBER:	**ARI096-66**	**PAGE 2**	
REPORT DATE:	**12/10/04**		
DATE SAMPLED:	**11/22,23/04**	**DATE RECEIVED:**	**11/24/04**

FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER SAMPLES FROM ANALYTICAL RESOURCES / HJ95

QA/QC DATA

QC PARAMETER	TANNINS/LIGNINS (mg/l)
METHOD	SM18 5550B
DATE ANALYZED	11/30/04
DETECTION LIMIT	0.010
DUPLICATE	
SAMPLE ID	MW-107
ORIGINAL	2.09
DUPLICATE	2.23
RPD	6.21%
SPIKE SAMPLE	
SAMPLE ID	MW-107
ORIGINAL	2.09
SPIKED SAMPLE	3.00
SPIKE ADDED	1.00
% RECOVERY	90.55%
QC CHECK	
FOUND	0.976
TRUE	1.00
% RECOVERY	97.64%
BLANK	<0.010

RPD = RELATIVE PERCENT DIFFERENCE.
NA = NOT APPLICABLE OR NOT AVAILABLE.
NC = NOT CALCULABLE DUE TO ONE OR MORE VALUES BEING BELOW THE DETECTION LIMIT.
OR = RECOVERY NOT CALCULABLE DUE TO SPIKE SAMPLE OUT OF RANGE OR SPIKE TO LOW RELATIVE TO SAMPLE CONCENTRATION.

SUBMITTED BY:

Steven Lazoff
Laboratory Director

ARI096-66

SUBCONTRACTOR ANALYSIS REQUEST
CUSTODY TRANSFER 11\24\04

ANALYTICAL RESOURCES INCORPORATED

ARI Project: HJ95

Laboratory: Aquatic Research, Inc
Lab Contact: Steve Lazoff
Lab Address: 3927 Aurora Ave N.
Seattle, WA 98103
Phone: 206-632-2715
Fax: 206-632-2417

ARI Client: Landau Associates
Project ID: 529009
ARI PMgr: Mary Lou Fox
Phone: (206) 340-2866 Ext
Fax: (206) 695-6201

Analytical Protocol: In-house
Special Instructions:

Requested Turn Around: ~~12/08/04~~ 2wk
Fax Results (Y/N): **Yes**

Limits of Liability. *Subcontractor is expected to perform all requested services in accordance with appropriate methodology following Standard Operating Procedures that meet standards for the industry. The total liability of ARI, its officers, agents, employees, or sucessors, arising out of or in connection with the requested services, shall not exceed the negotiated amount for said services. The agreement by the Subcontractor to perform services requested by ARI releases ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Subcontractor.*

ARI Sample ID	Client Sample ID/ Add'l Sample ID	Sampled	Matrix	Bottles	Analyses
04-20656-HJ95A	MW-111	11/22/04	Water	10	Tannins & Lignins
Special Instructions: NONE		MS/MSD			
04-20657-HJ95B	MW-101	11/22/04	Water	2	Tannins & Lignins
Special Instructions: NONE					
04-20658-HJ95C	MW-105	11/22/04	Water	2	Tannins & Lignins
Special Instructions: NONE					
04-20659-HJ95D	MW-106	11/22/04	Water	2	Tannins & Lignins
Special Instructions: NONE					
04-20660-HJ95E	MW-107	11/22/04	Water	2	Tannins & Lignins
Special Instructions: NONE					
04-20661-HJ95F	MW-202	11/23/04	Water	2	Tannins & Lignins
Special Instructions: NONE					
04-20662-HJ95G	MW-102	11/23/04	Water	2	Tannins & Lignins
Special Instructions: NONE					
04-20663-HJ95H	MW-104	11/23/04	Water	2	Tannins & Lignins
Special Instructions: NONE					

Carrier		Airbill		Date	
Relinquished by		Company ARI	Date 11/24/04	Time 1625	
Received by		Company ARI	Date 11/24/04	Time 1625	

ARI096-66

SUBCONTRACTOR ANALYSIS REQUEST
CUSTODY TRANSFER 11\24\04

ANALYTICAL RESOURCES INCORPORATED

ARI Project: HJ95

Laboratory: Aquatic Research, Inc
Lab Contact: Steve Lazoff

ARI Client: Landau Associates
Project ID: 529009

ARI Sample ID	Client Sample ID/ Add'l Sample ID	Sampled	Matrix	Bottles	Analyses
04-20664-HJ95I	MW-103	11/23/04	Water	2	Tannins & Lignins
Special Instructions: NONE					
04-20665-HJ95J	MW-108	11/23/04	Water	2	Tannins & Lignins
Special Instructions: NONE					
04-20666-HJ95K	MW-112	11/23/04	Water	2	Tannins & Lignins
Special Instructions: NONE					
04-20667-HJ95L	MW-109	11/23/04	Water	2	Tannins & Lignins
Special Instructions: NONE					
04-20668-HJ95M	MW-110	11/23/04	Water	2	Tannins & Lignins
Special Instructions: NONE					

Carrier	Airbill		Date	
Relinquished by	Company ARI	Date 11/24/04	Time 1625	
Received by	Company ARI	Date 11/24/04	Time 1625	