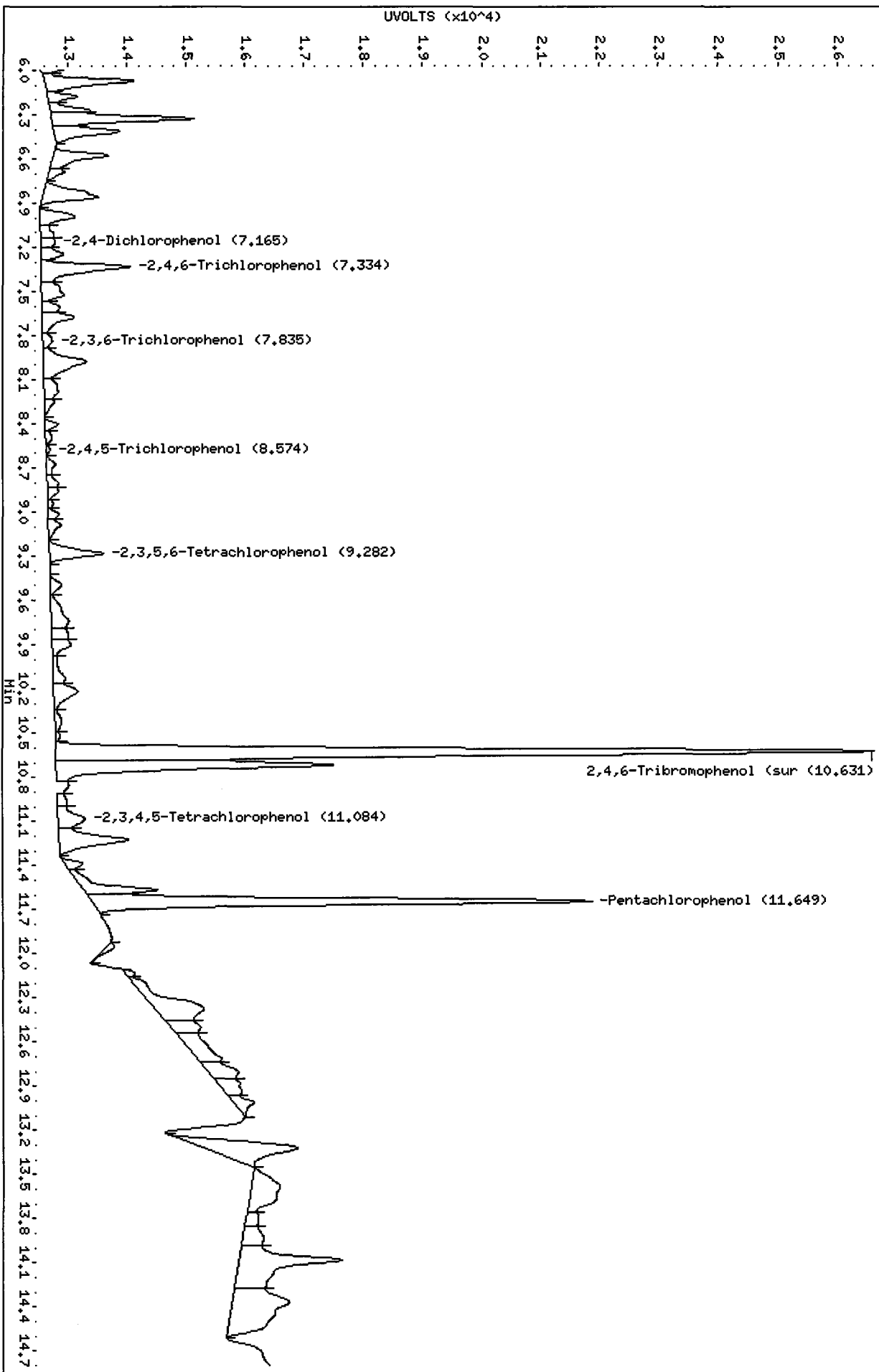


Data File: /chem2/ecdl.i/FPCP20100809.b/0813-2.b/0813043.d
Date : 13-AUG-2010 23:24
Client ID:
Sample Info: RC60B
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecdl.i
Operator: ar
Column diameter: 0.53

/chem2/ecdl.i/FPCP20100809.b/0813-2.b/0813043.d/0813043.cdf



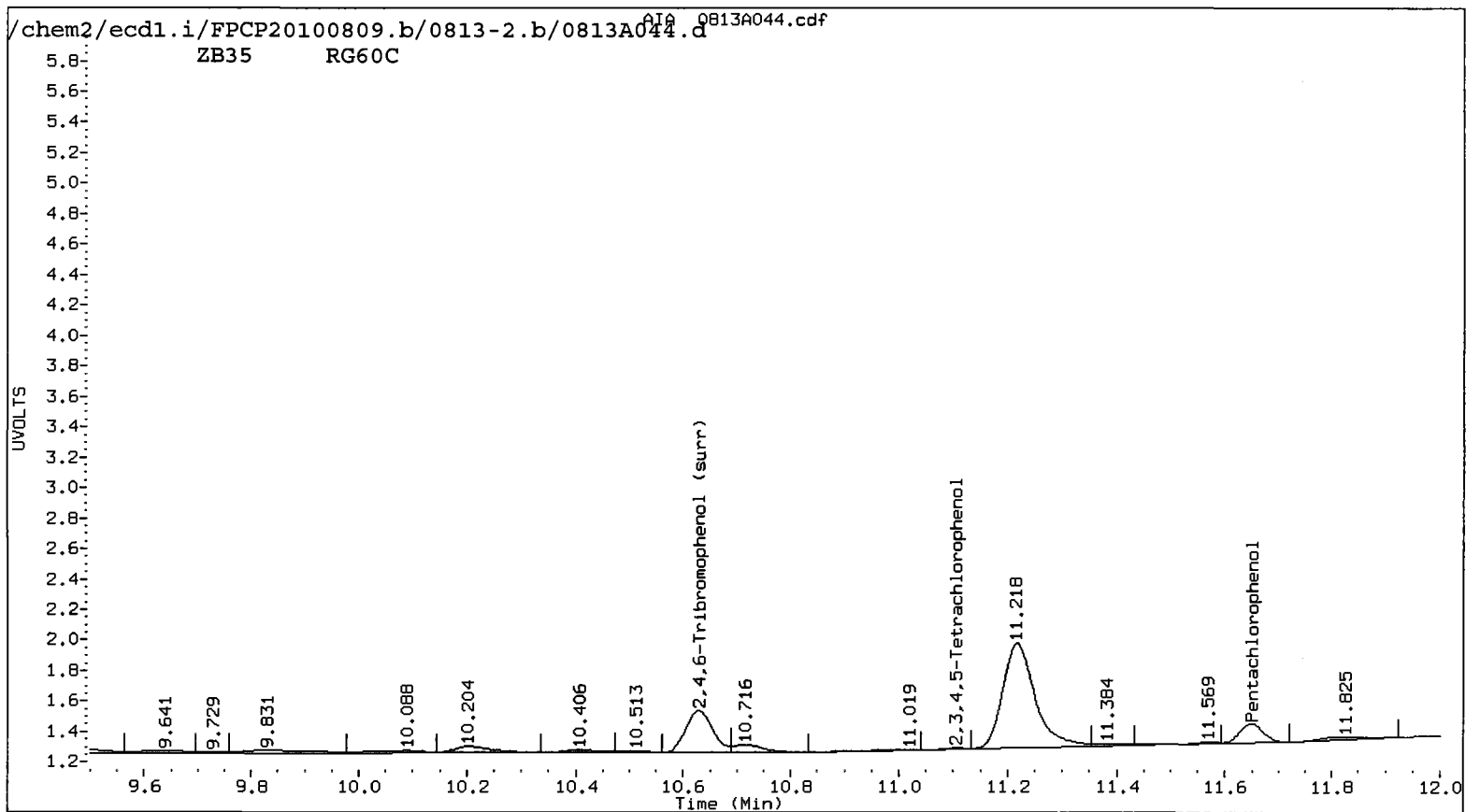
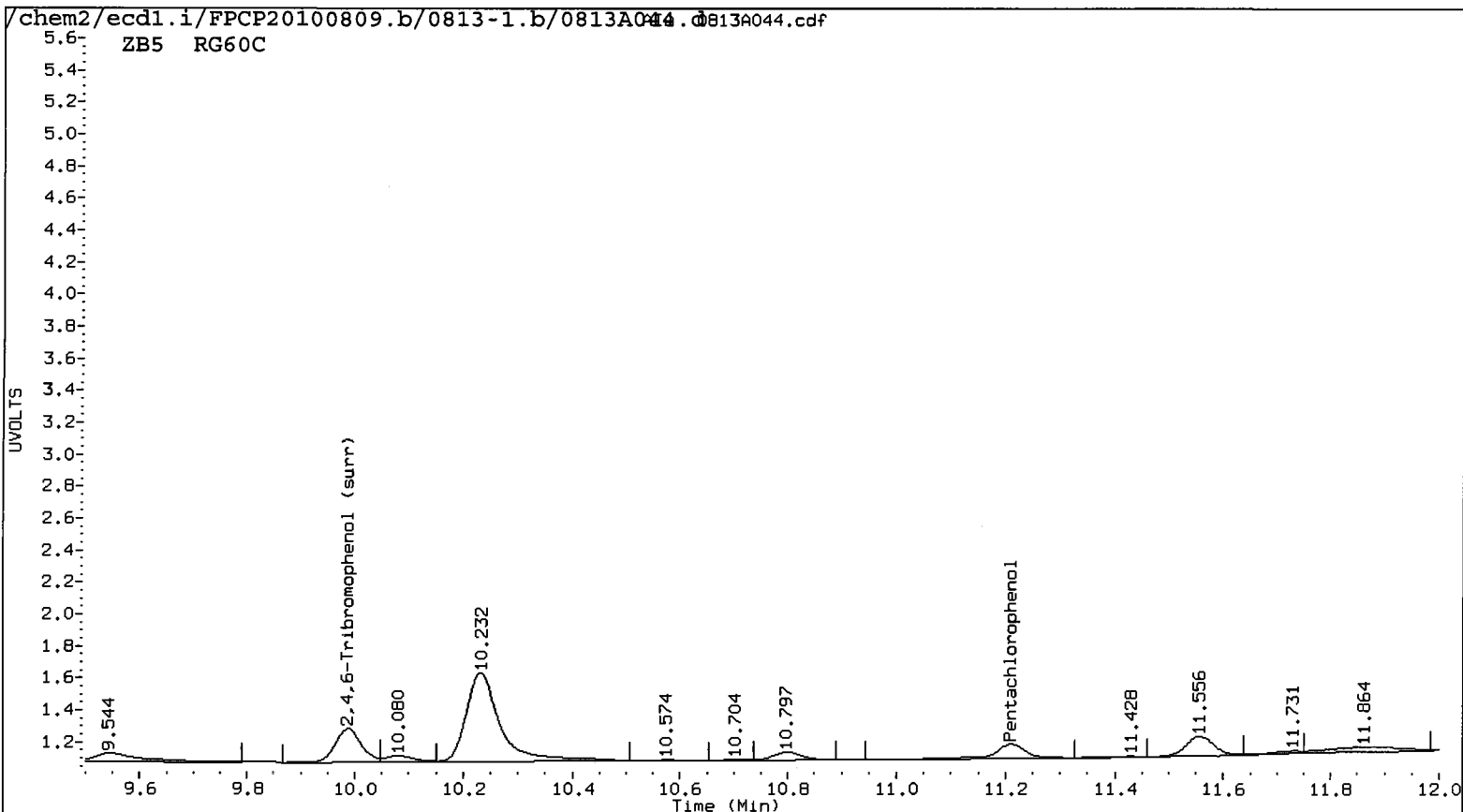
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/FPCP20100809.b/0813-1.b/0813A044.d ARI ID: RG60C *YE 8/17/10*
 Data file 2: /chem2/ecdl.i/FPCP20100809.b/0813-2.b/0813A044.d Client ID:
 Method: /chem2/ecdl.i/FPCP20100809.b/FPCP.m Injection Date: 13-AUG-2010 23:44
 Compound Sublist: all Report Date: 08/17/2010 16:03
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
11.210	-0.009	16614	11.649	-0.009	19523	0.9270	0.8503 <i>PC</i>	8.6	Pentachlorophenol
7.284	0.020	18464	7.368	0.035	20532	1.9351	1.6446	16.2	2,4,6-Trichlorophenol
----			7.819	-0.045	4087	0.0000	0.3294	---	2,3,6-Trichlorophenol
8.200	-0.042	6132	8.674	0.059	7759	1.2149	1.0871	11.1	2,4,5-Trichlorophenol
8.739	-0.053	1899	----			0.2776	0.0000	---	2,3,4-Trichlorophenol
9.030	0.023	16377	9.262	-0.015	7559	1.1610	0.4083	95.9*	2,3,5,6-Tetrachlorophenol
----			11.108	-0.018	1248	0.0000	0.0855	---	2,3,4,5-Tetrachlorophenol
----			7.168	0.002	6257	0.0000	8.3695	---	2,4-Dichlorophenol
9.988	-0.014	35726	10.629	-0.017	47452	2.6	2.5	2.7	2,4,6-Tribromophenol (surr)

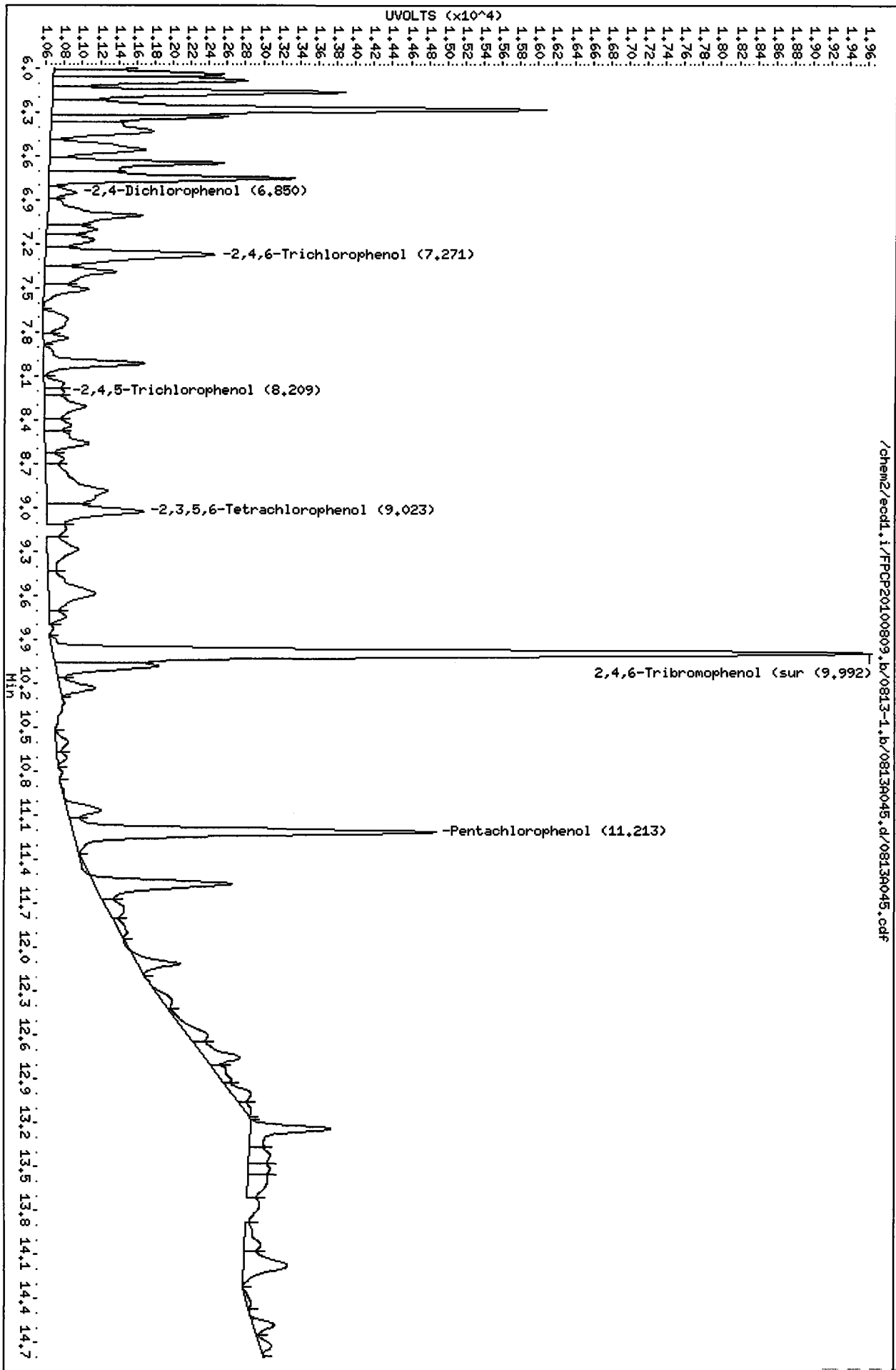
PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	10.4	10.2



Data File: /chem2/eodl.i/FPCP20100809.b/0813-1.b/0813R045.d
Date : 14-JUG-2010 00:04
Client ID:
Sample Info: RG60D
Purge Volume: 2.0
Column phase: ZB5

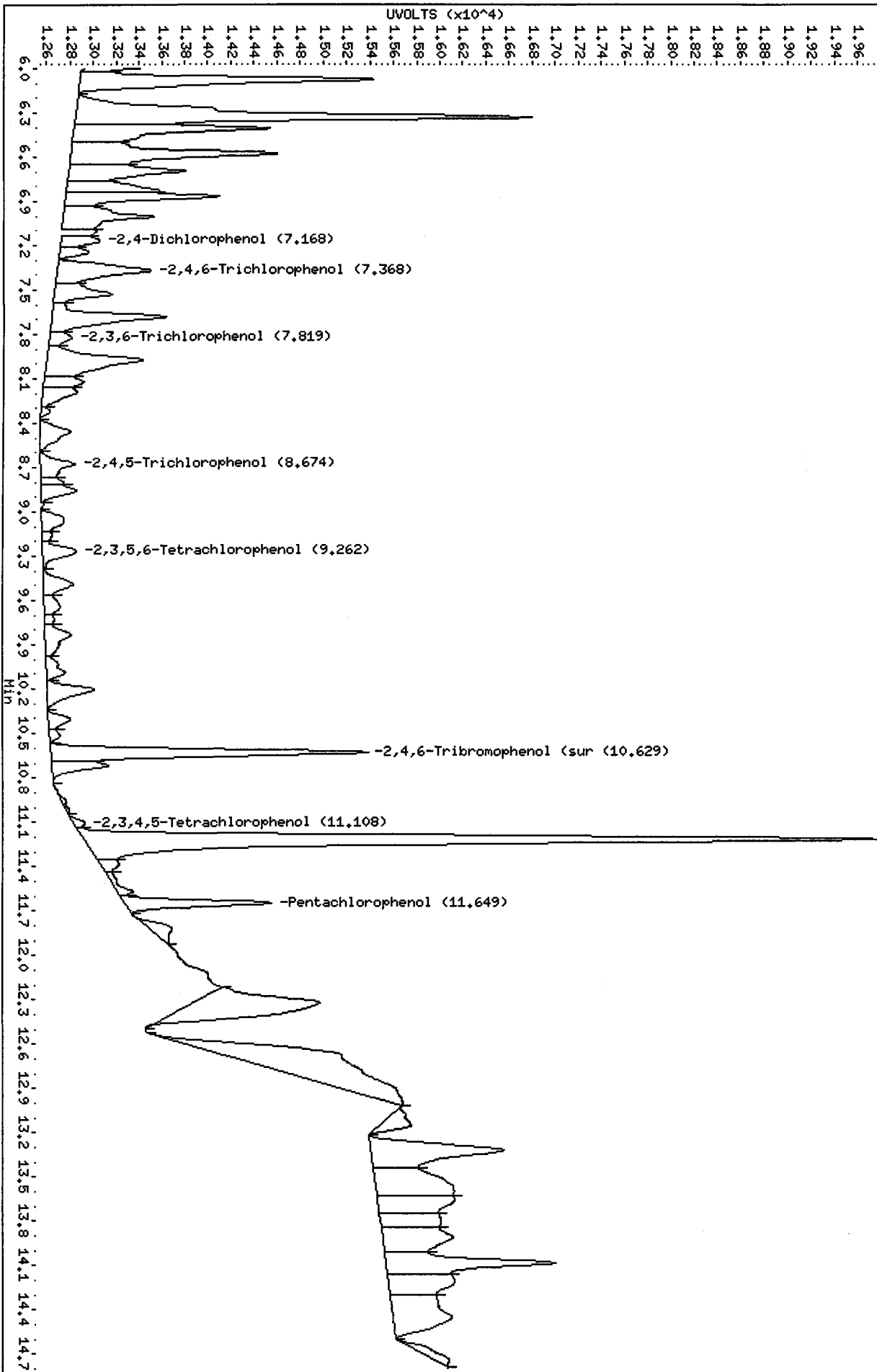
Instrument: eodl.i
Operator: ar
Column diameter: 0.53



Data File: /chem2/eecd1.i/FPCP20100809.b/0813-2.b/0813A044.d
Date: 13-JUG-2010 23:44
Client ID:
Sample Info: RG60C
Purge Volume: 2.0
Column phase: ZB35

Instrument: eecd1.i
Operator: ar
Column diameter: 0.53

/chem2/eecd1.i/FPCP20100809.b/0813-2.b/0813A044.d/0813A044.cdf



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

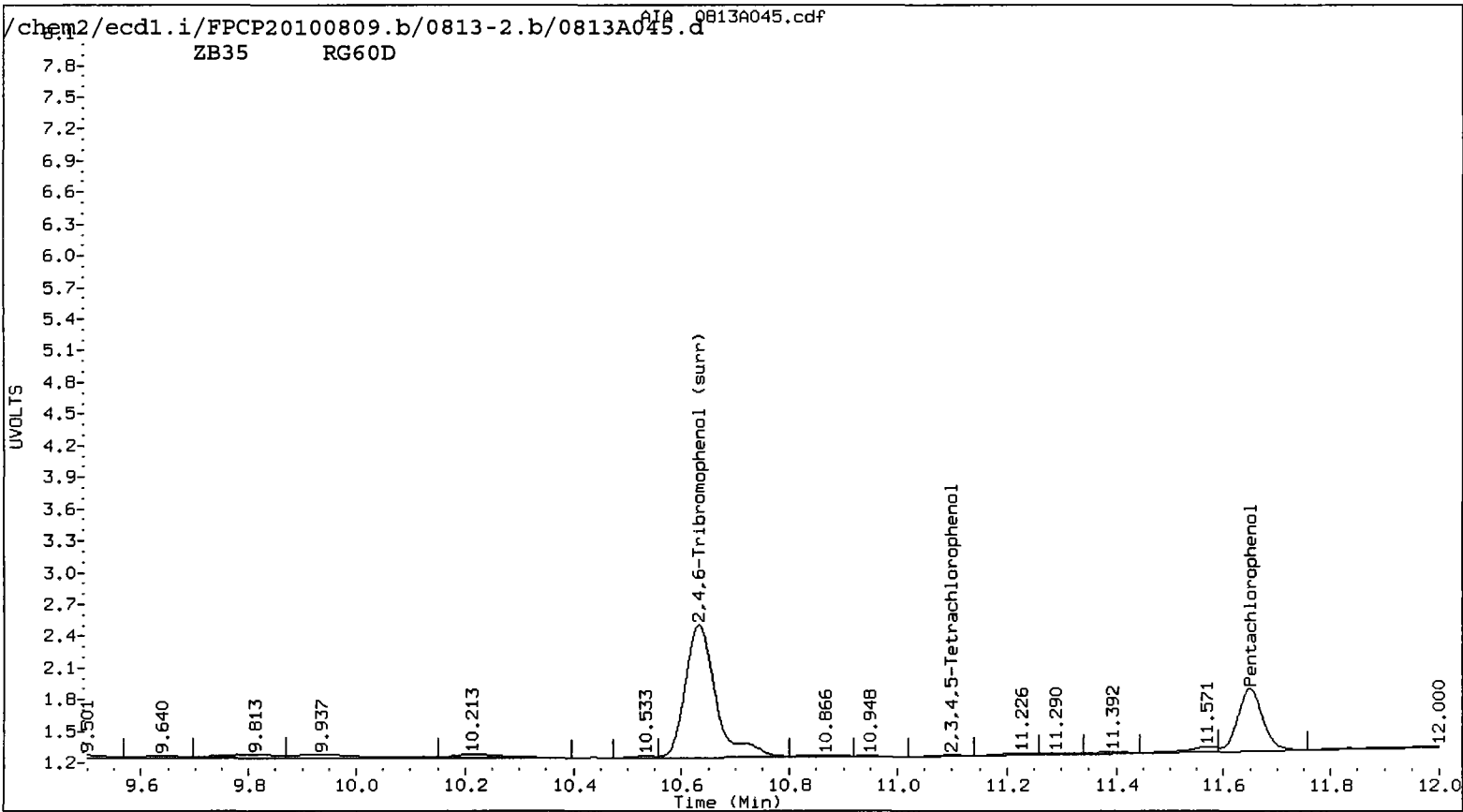
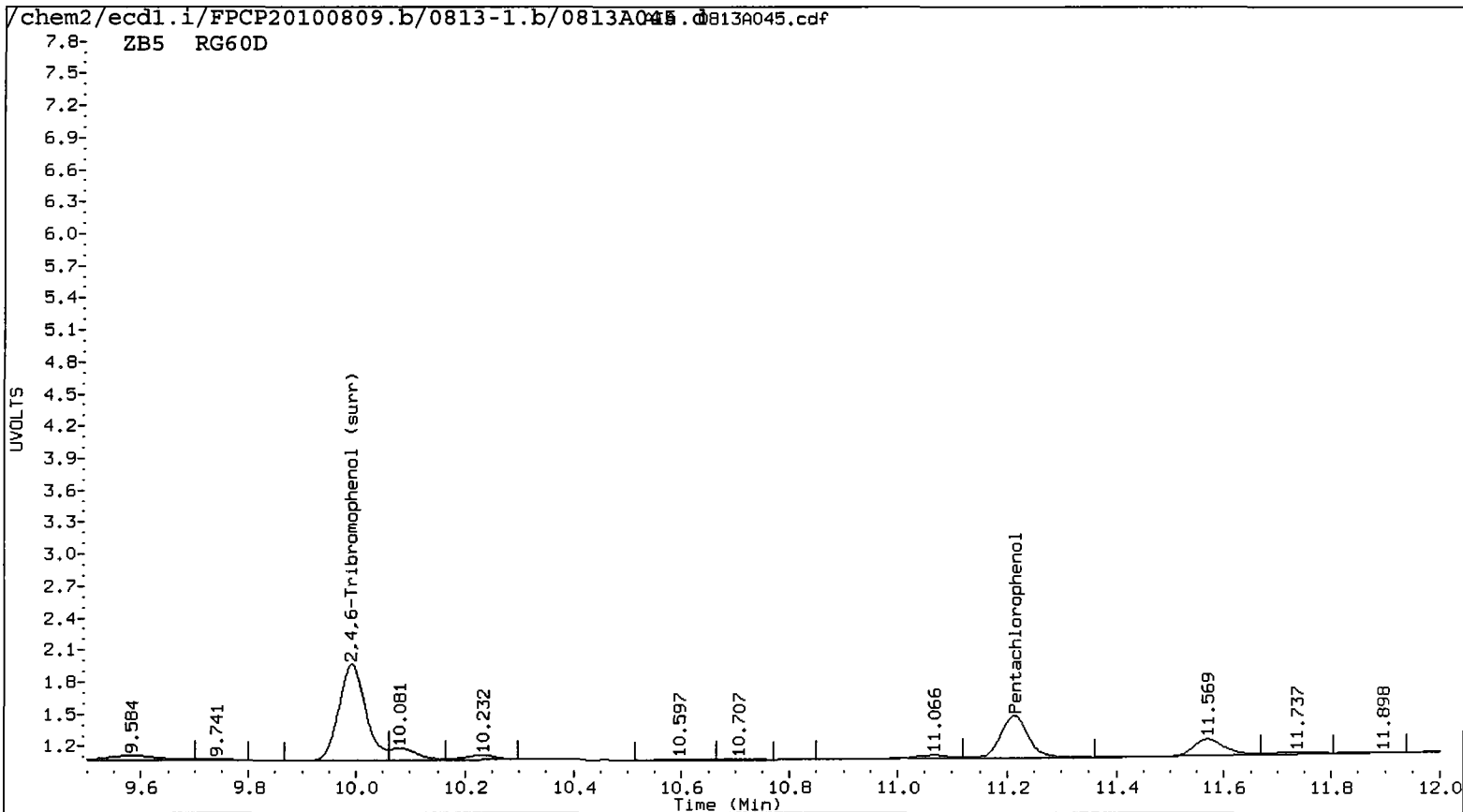
Data file 1: /chem2/ecdl.i/FPCP20100809.b/0813-1.b/0813A045.d ARI ID: RG60D
 Data file 2: /chem2/ecdl.i/FPCP20100809.b/0813-2.b/0813A045.d Client ID:
 Method: /chem2/ecdl.i/FPCP20100809.b/FPCP.m Injection Date: 14-AUG-2010 00:04
 Compound Sublist: all Report Date: 08/17/2010 16:03
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

YZ 8/18/10

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
11.213	-0.006	71254	11.649	-0.009	96552	4.0683	<u>4.2050</u>	3.3	Pentachlorophenol
7.271	0.007	37995	7.338	0.005	45417	4.0344	3.6378	10.3	2,4,6-Trichlorophenol
----			7.837	-0.027	7710	0.0000	0.6213	---	2,3,6-Trichlorophenol
8.209	-0.033	3150	8.668	0.053	2349	0.6241	0.3274	62.4*	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.023	0.016	23599	9.284	0.007	24090	1.6730	1.3011	25.0	2,3,5,6-Tetrachlorophenol
----			11.099	-0.027	2285	0.0000	0.1566	---	2,3,4,5-Tetrachlorophenol
6.850	-0.043	4634	7.106	-0.060	20672	7.2700	28.2138	118.0*	2,4-Dichlorophenol
9.992	-0.010	155521	10.633	-0.013	247064	<u>11.9</u>	<u>13.2</u>	10.6	2,4,6-Tribromophenol (surr)

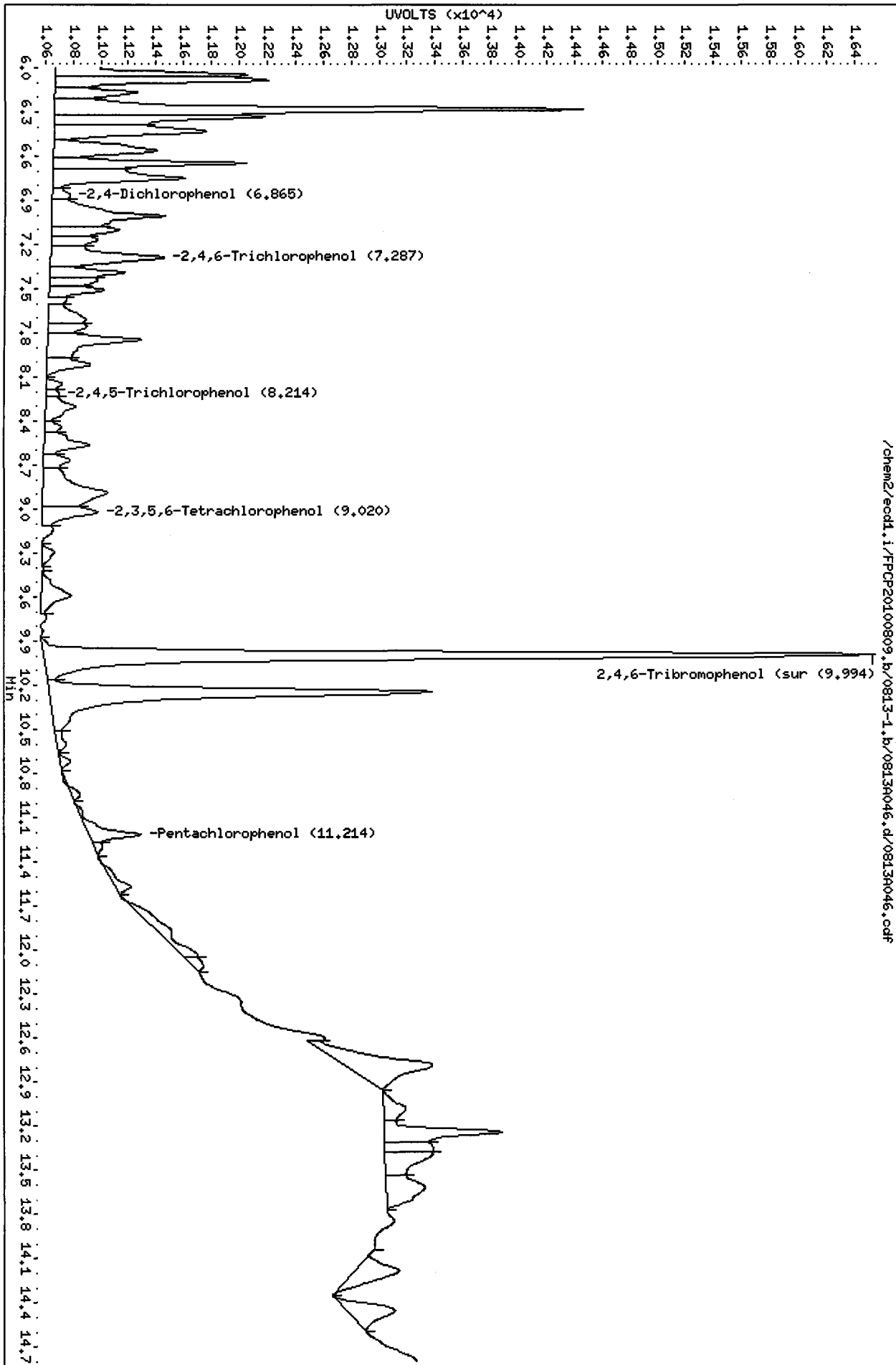
PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	47.6	52.9



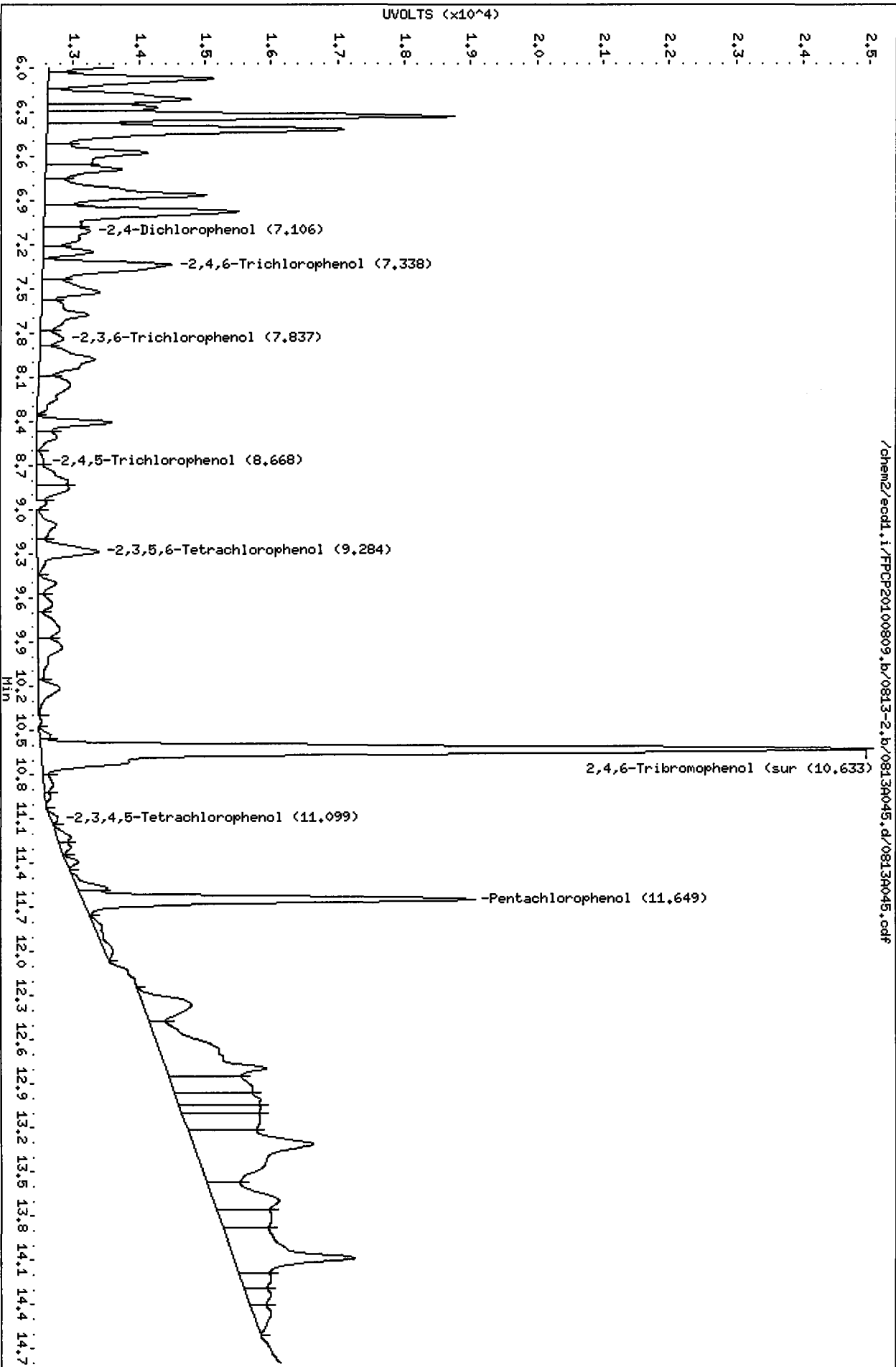
Data File: /chem2/eecd1.i/FP20100809.b/0813-1.b/0813A046.d
Date : 14-AUG-2010 00:24
Client ID:
Sample Info: RG60E
Purge Volume: 2.0
Column phase: ZB5

Instrument: eecd1.i
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecdl.i/FPCP20100809.b/0813-2.b/0813A045.d
Date : 14-AUG-2010 00:04
Client ID:
Sample Info: RG60D
Purge Volume: 2.0
Column phase: ZB35

Instrument: eccl.i
Operator: ar
Column diameter: 0.53



Analytical Resources Inc.
 Dual Column 8041 Chlorinated Phenols Quantitation Report

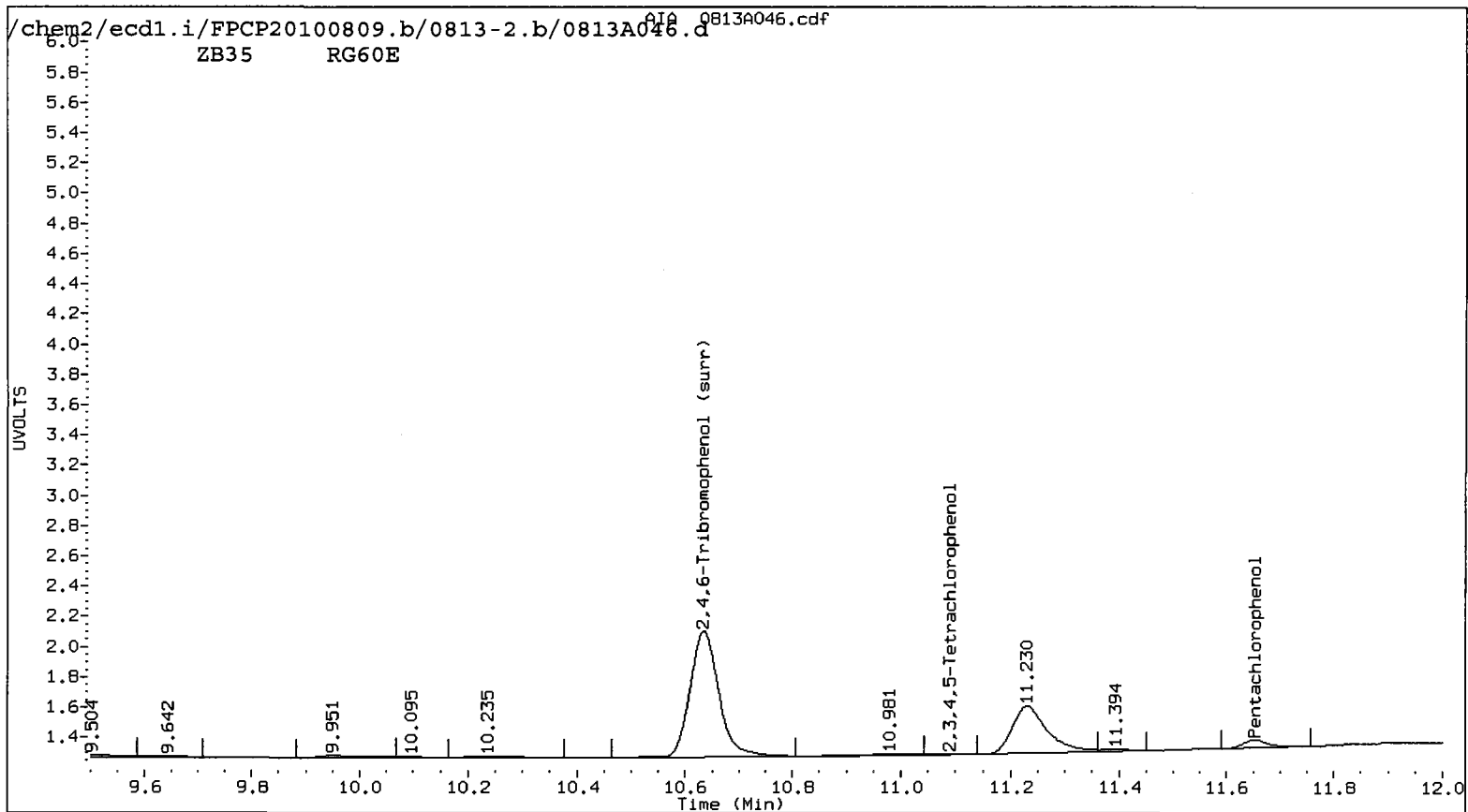
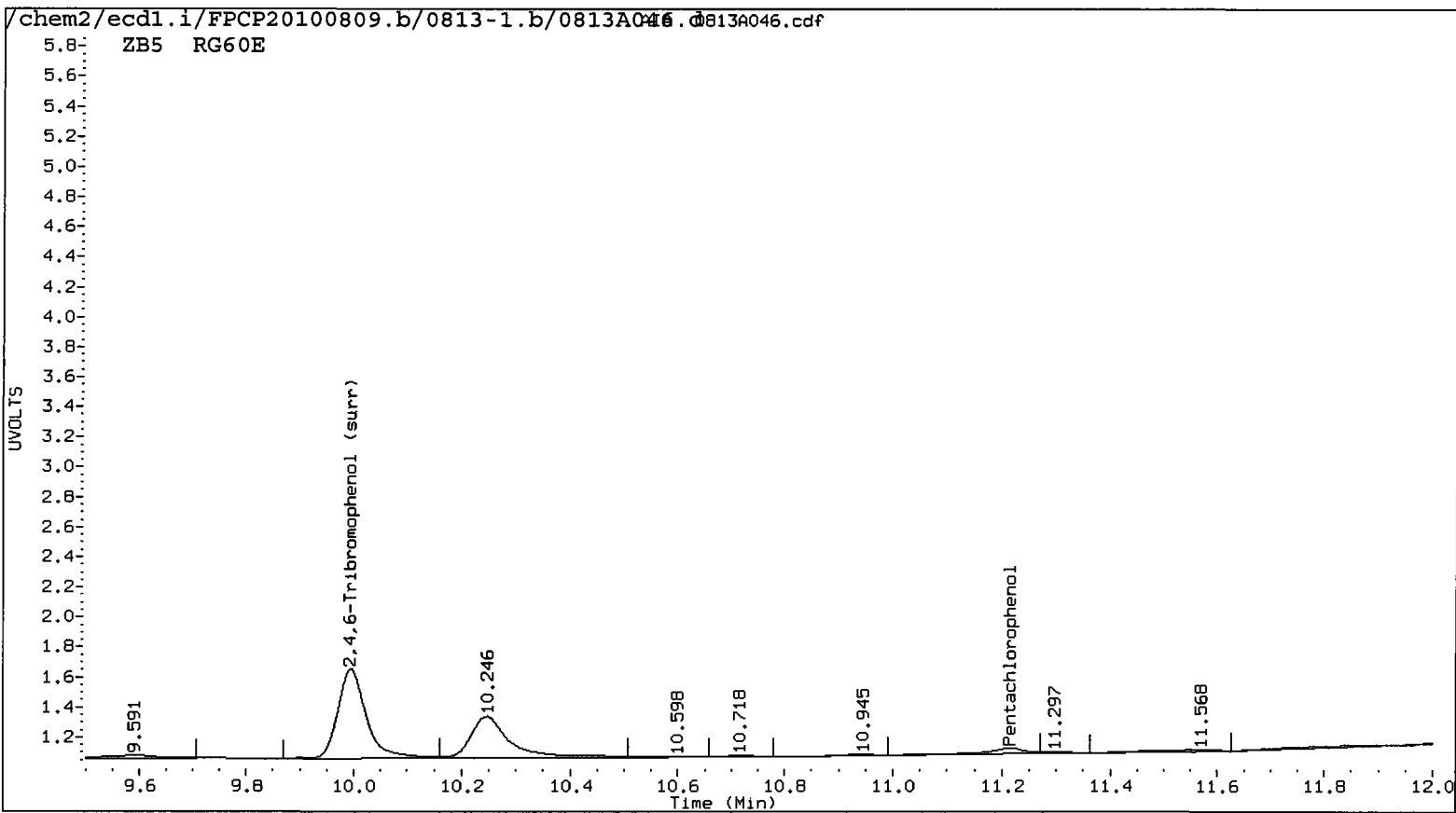
YE 8/18/10

Data file 1: /chem2/ecdl.i/FPCP20100809.b/0813-1.b/0813A046.d ARI ID: RG60E
 Data file 2: /chem2/ecdl.i/FPCP20100809.b/0813-2.b/0813A046.d Client ID:
 Method: /chem2/ecdl.i/FPCP20100809.b/FPCP.m Injection Date: 14-AUG-2010 00:24
 Compound Sublist: all Report Date: 08/17/2010 16:03
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
11.214	-0.005	8710	11.652	-0.006	8456	0.4844	0.3663	27.2	Pentachlorophenol
7.287	0.023	19885	7.368	0.035	19774	2.0860	1.5839	27.4	2,4,6-Trichlorophenol
----			7.827	-0.037	4471	0.0000	0.3603	---	2,3,6-Trichlorophenol
8.214	-0.028	1329	----			0.2633	0.0000	---	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.020	0.013	9362	9.261	-0.016	8975	0.6637	0.4847	31.2	2,3,5,6-Tetrachlorophenol
----			11.091	-0.035	902	0.0000	0.0618	---	2,3,4,5-Tetrachlorophenol
6.865	-0.028	2460	7.171	0.005	6425	3.8376	8.5962	76.5*	2,4-Dichlorophenol
9.994	-0.008	110753	10.634	-0.012	155275	<u>8.3</u>	<u>8.3</u>	0.2	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	33.3	33.3

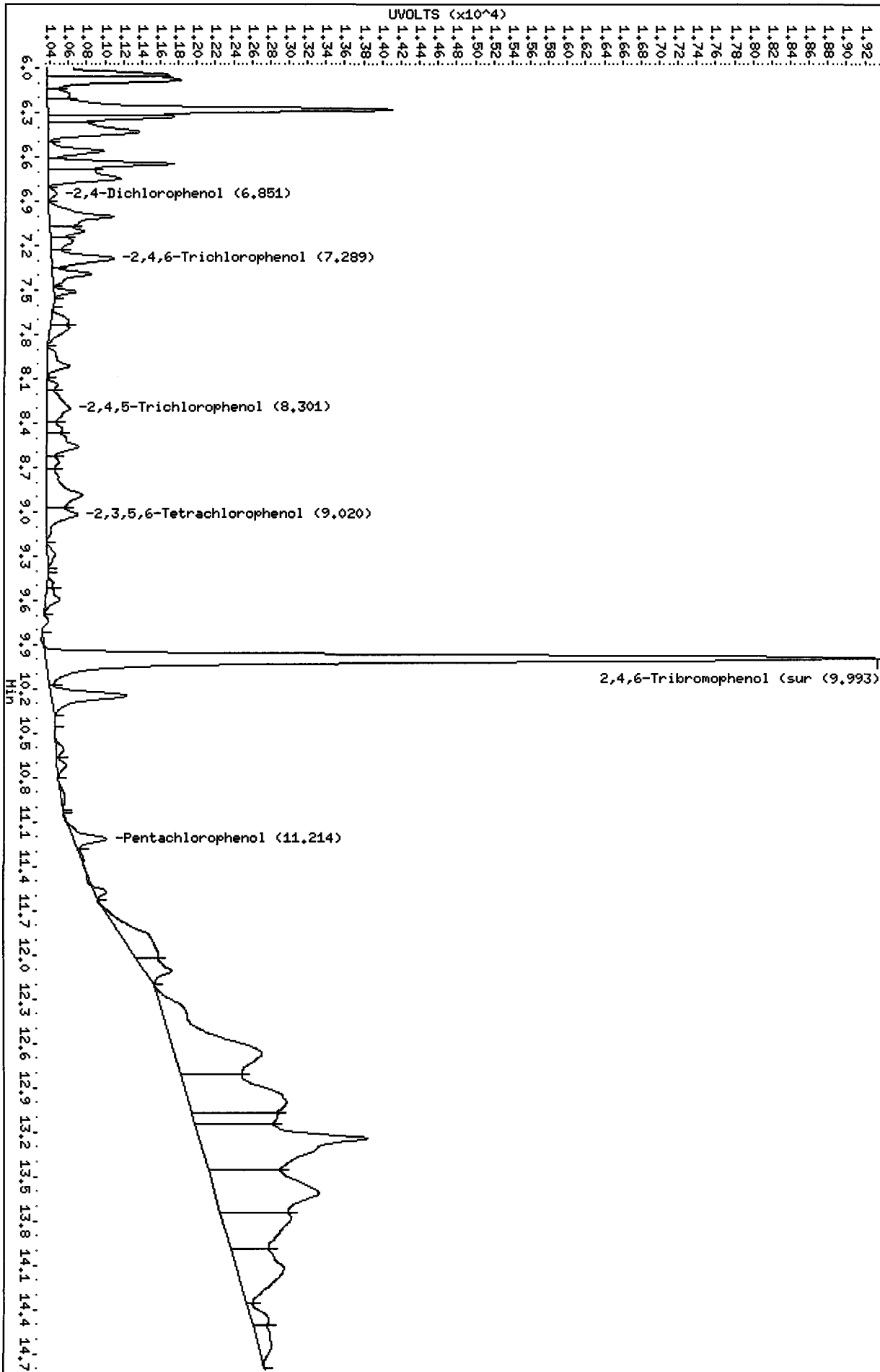


Data File: /chem2/eod1.i/FPCP20100809.b/0813-1.b/0813R047.d
Date : 14-JUG-2010 00:44

Client ID:
Sample Info: RG60F
Purge Volume: 2.0
Column phase: ZB5

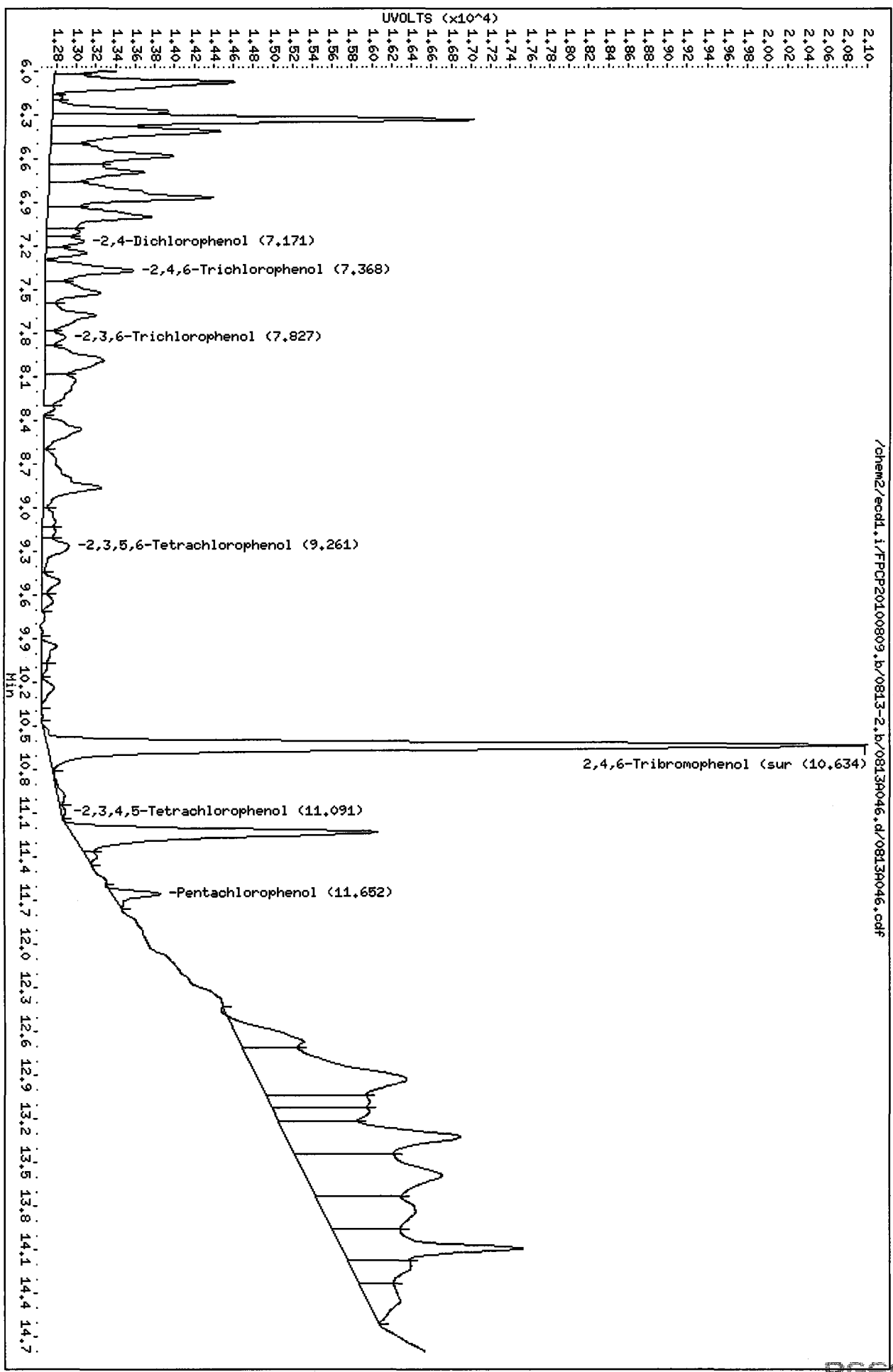
Instrument: eod1.i
Operator: ar
Column diameter: 0.53

/chem2/eod1.i/FPCP20100809.b/0813-1.b/0813R047.d/0813R047.cdf



Data File: /chem2/ecdl.i/FPDP20100809.b/0813-2.b/0813A046.d
 Date : 14-AUG-2010 00:24
 Client ID:
 Sample Info: RG60E
 Purge Volume: 2.0
 Column phase: ZB35

Instrument: ecdl.i
 Operator: ar
 Column diameter: 0.53



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

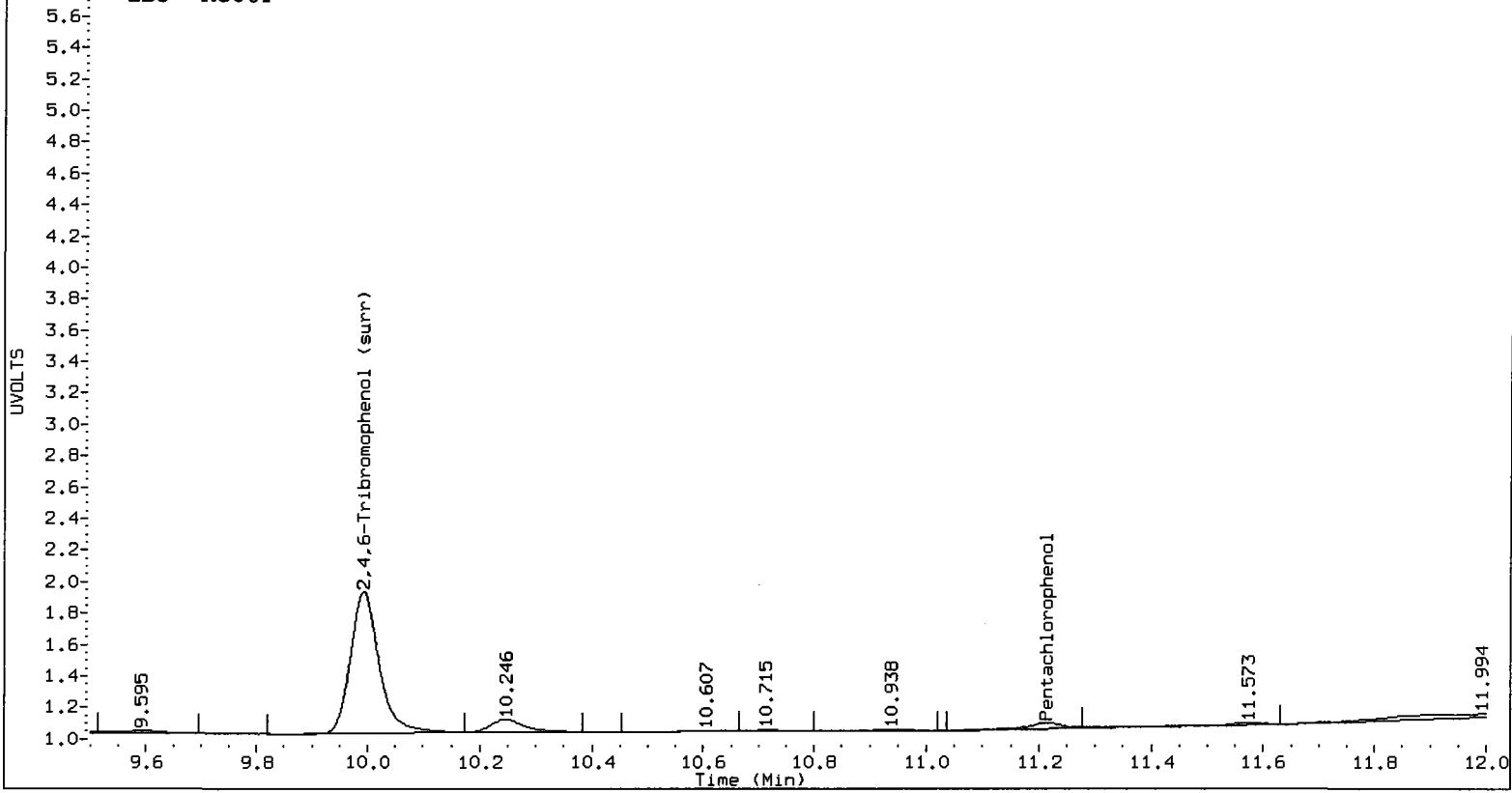
Data file 1: /chem2/ecdl.i/FPCP20100809.b/0813-1.b/0813A047.d ARI ID: RG60F *YZ 8/17/10*
 Data file 2: /chem2/ecdl.i/FPCP20100809.b/0813-2.b/0813A047.d Client ID:
 Method: /chem2/ecdl.i/FPCP20100809.b/FPCP.m Injection Date: 14-AUG-2010 00:44
 Compound Sublist: all Report Date: 08/17/2010 16:03
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
11.214	-0.005	6925	11.653	-0.005	9103	0.3848	0.3964 <i>12</i>	3.0	Pentachlorophenol
7.289	0.025	13086	7.369	0.036	19203	1.3665	1.5381	11.8	2,4,6-Trichlorophenol
----			7.836	-0.028	5016	0.0000	0.4042	---	2,3,6-Trichlorophenol
8.301	0.059	10942	8.673	0.058	3274	2.1678	0.4568	130.4*	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
9.020	0.013	9387	9.261	-0.016	6365	0.6655	0.3438	63.8*	2,3,5,6-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,3,4,5-Tetrachlorophenol
6.851	-0.042	1408	7.167	0.001	7067	2.1905	9.4638	124.8*	2,4-Dichlorophenol
9.993	-0.009	162330	10.634	-0.012	243570	<u>12.5</u>	<u>13.0</u>	4.6	2,4,6-Tribromophenol (surr)

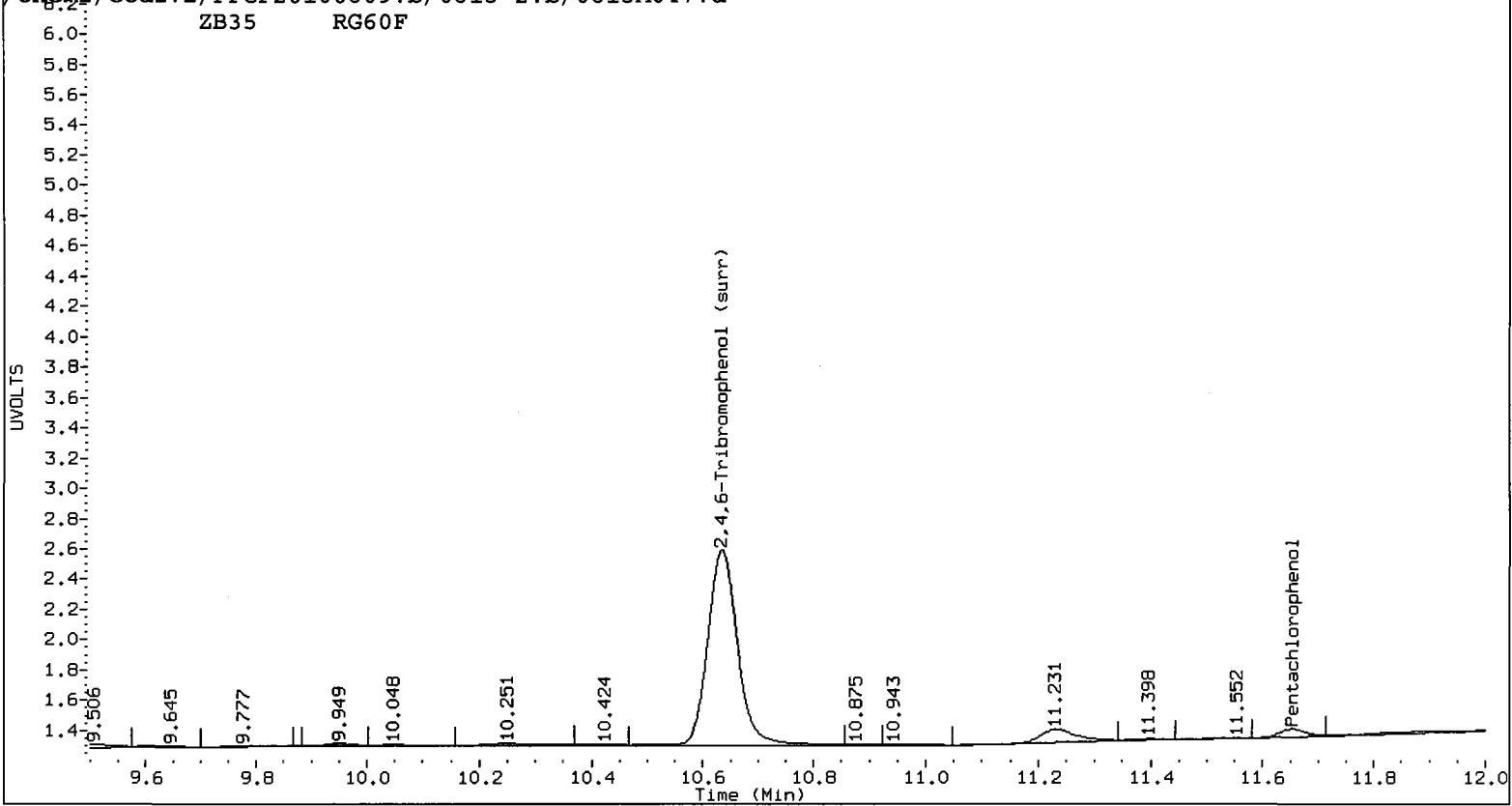
PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	49.8	52.2

ZB5 RG60F



ZB35 RG60F



Data File: /chem2/ecdl.i/FP/CP20100809.b/0813-1.b/0813A049.d
Date: 14-AUG-2010 01:24

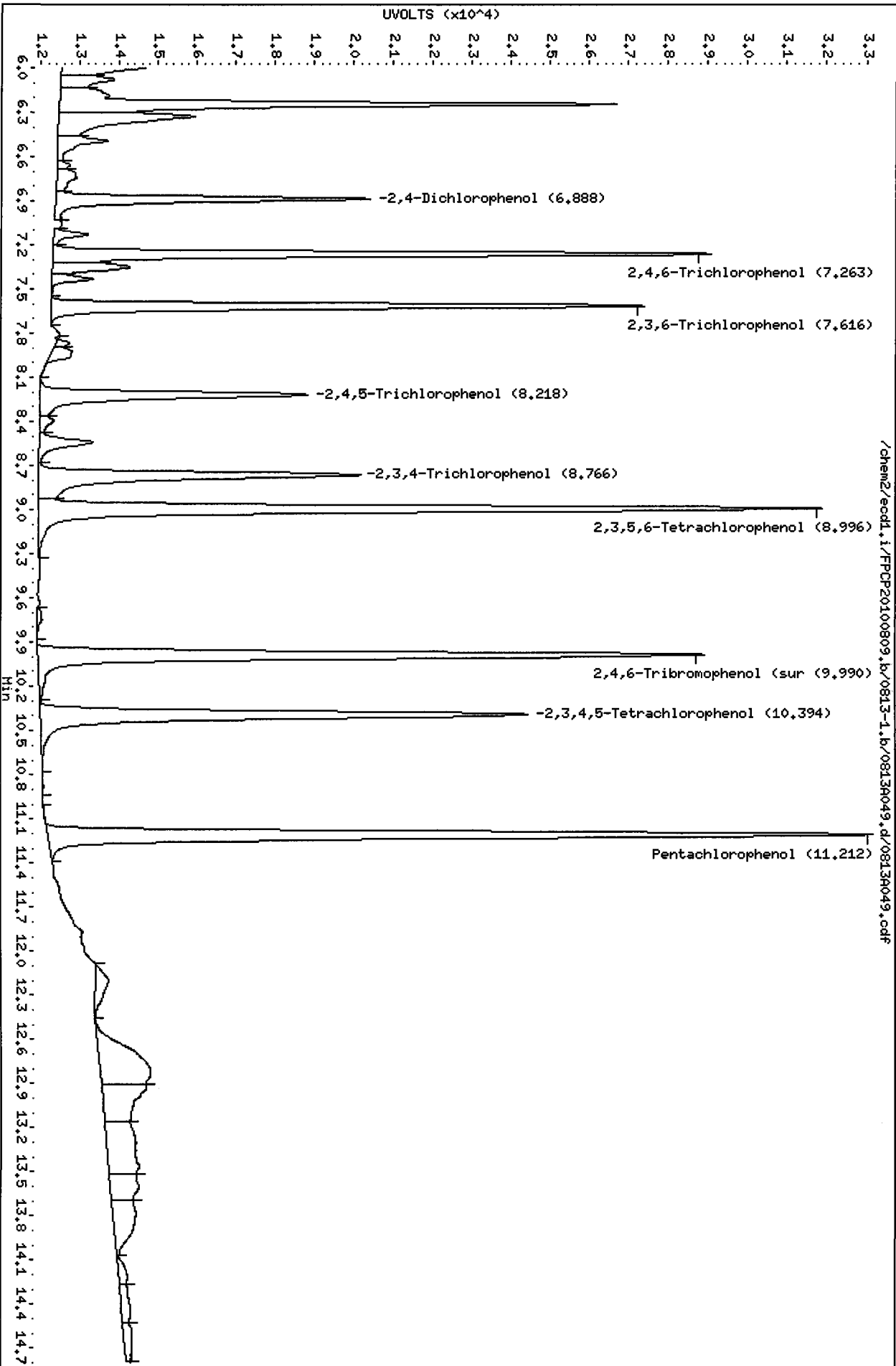
Client ID:
Sample Info: PCP CCAI

Column phase: ZB5

Instrument: ecdl.i

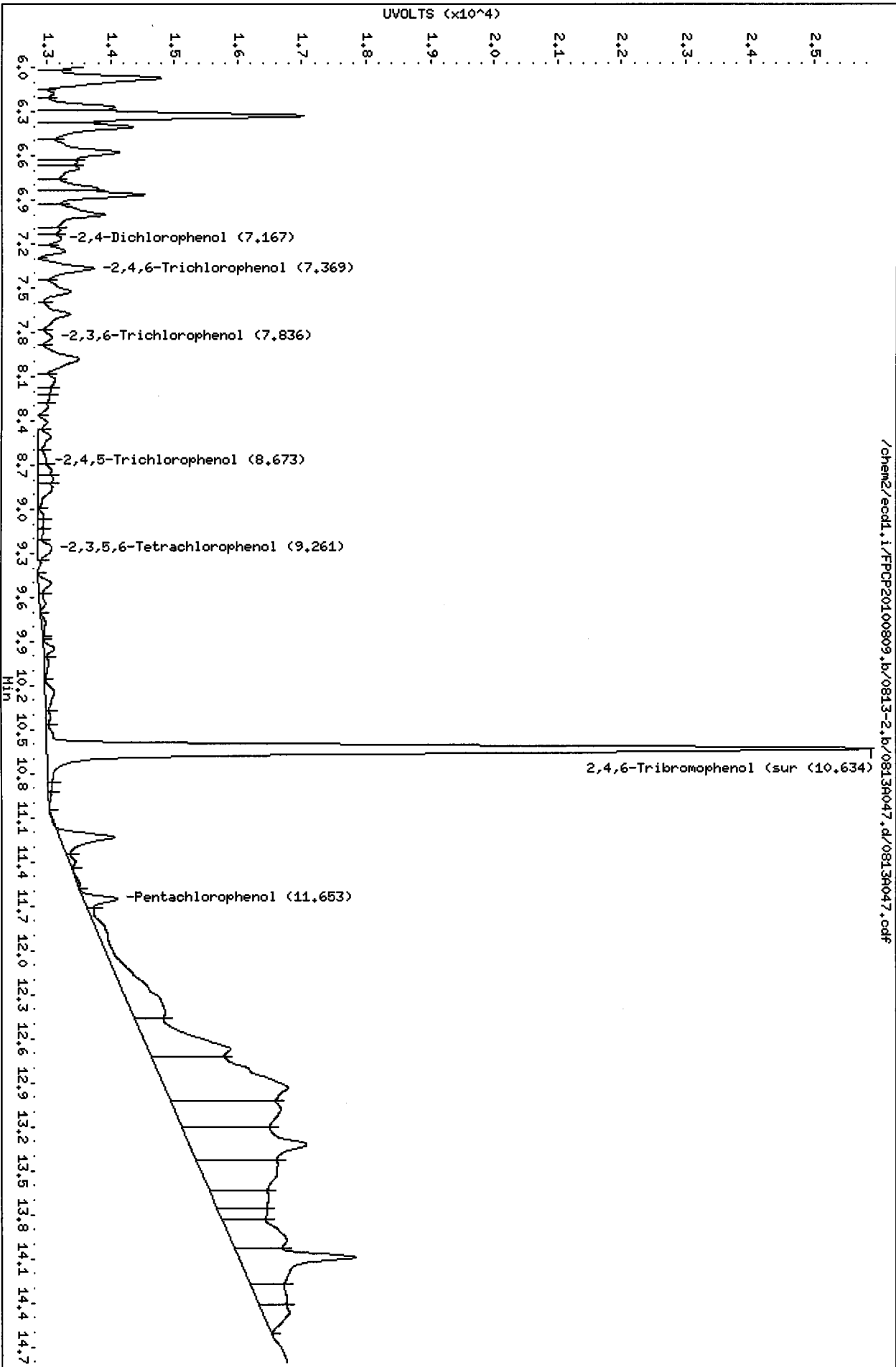
Operator: ar

Column diameter: 0.53



Data File: /chem2/ecdl.i/PPCP20100809.b/0813-2.b/0813A047.d
Date : 14-AUG-2010 00:44
Client ID:
Sample Info: RG60F
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecdl.i
Operator: ar
Column diameter: 0.53



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

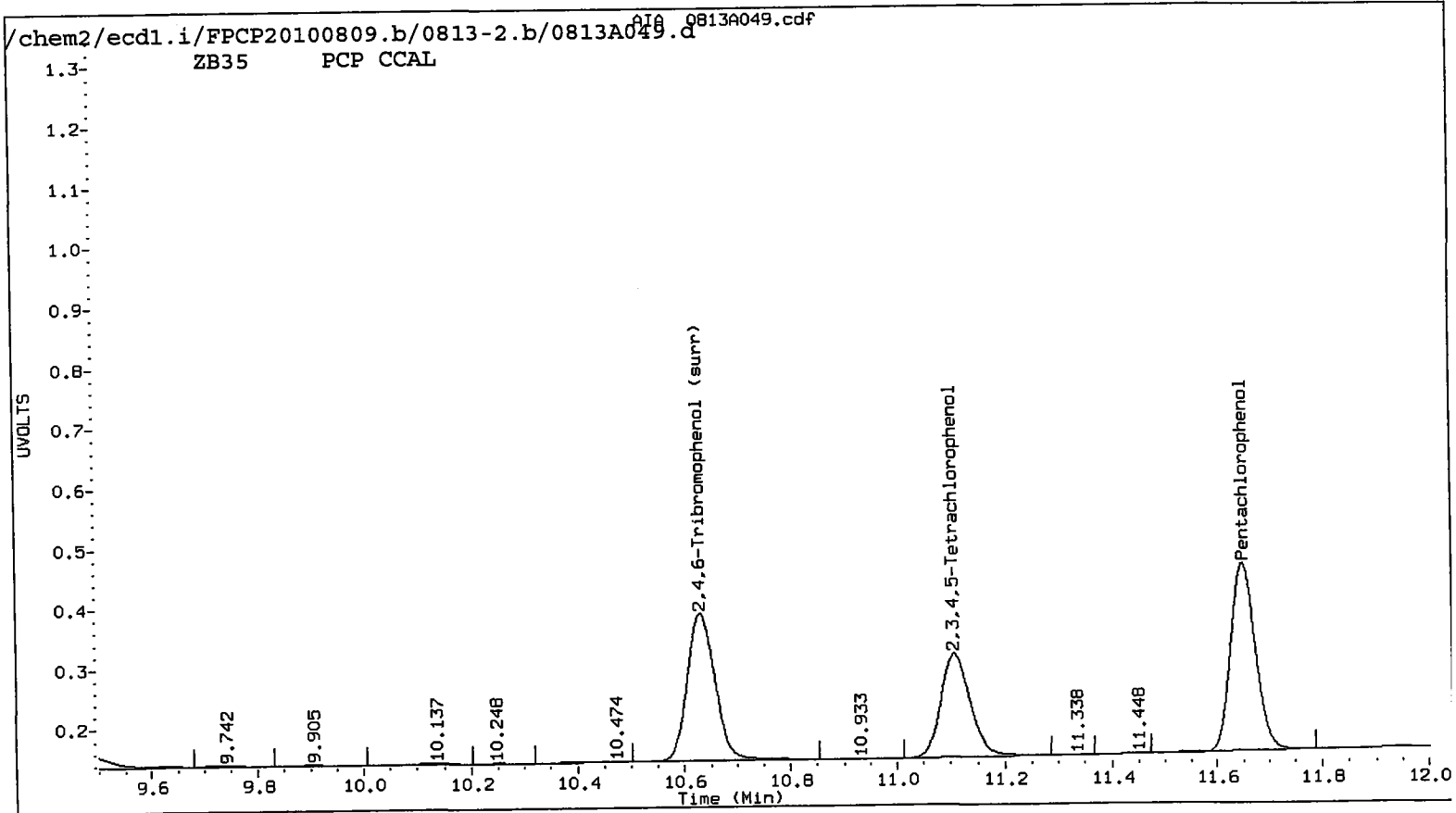
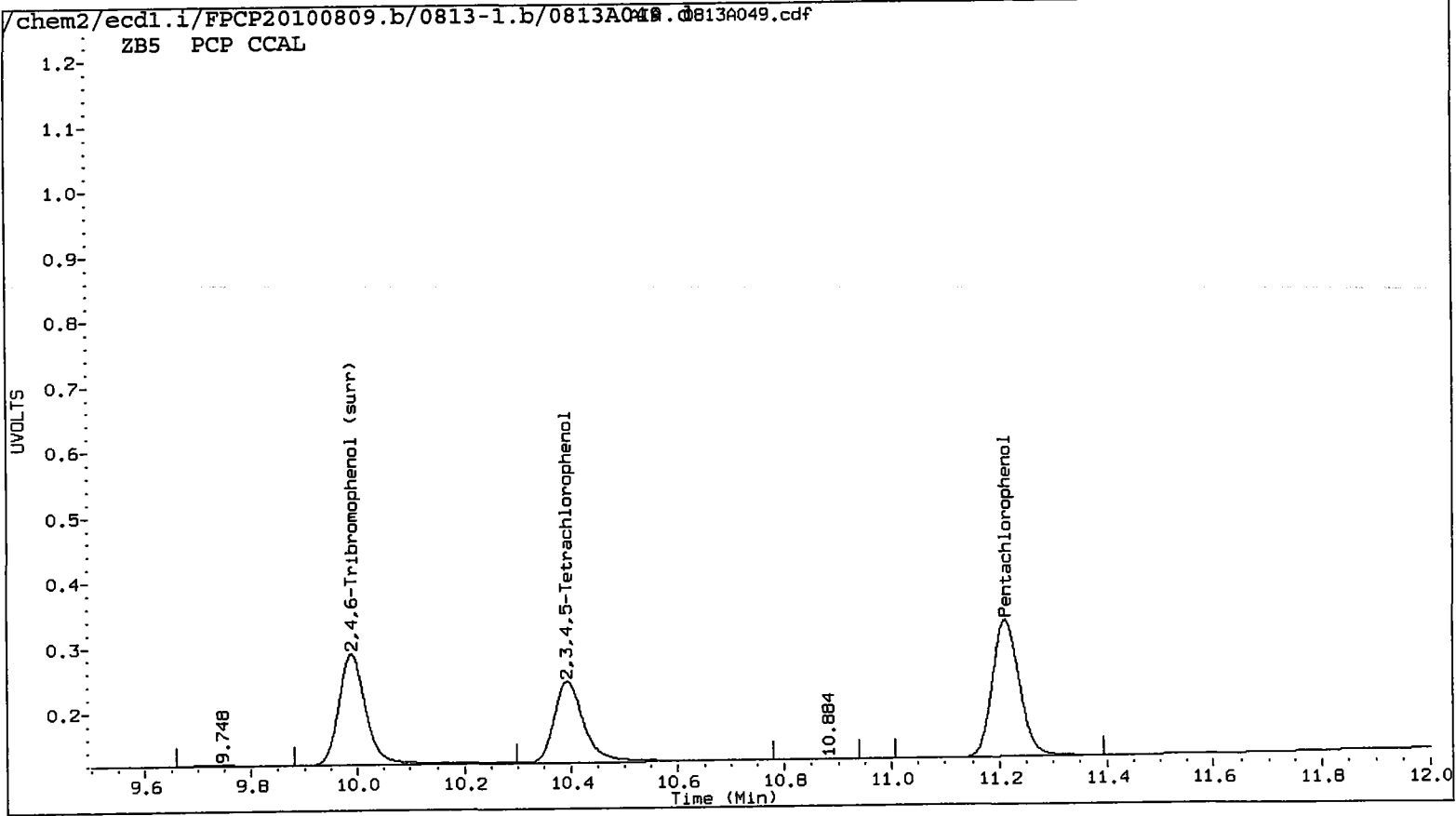
Data file 1: /chem2/ecdl.i/FPCP20100809.b/0813-1.b/0813A049.d ARI ID: PCP CCAL
 Data file 2: /chem2/ecdl.i/FPCP20100809.b/0813-2.b/0813A049.d Client ID:
 Method: /chem2/ecdl.i/FPCP20100809.b/FPCP.m Injection Date: 14-AUG-2010 01:24
 Compound Sublist: all Report Date: 08/17/2010 16:03
 Instrument: ecdl.i Matrix: NONE
 Operator: ar Dilution Factor: 1.000

Y28/18/10

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
11.212	-0.007	361086	11.649	-0.009	509434	23.1020	22.1865	4.0	Pentachlorophenol
7.263	-0.001	214941	7.330	-0.003	330756	25.5112	26.4931	3.8	2,4,6-Trichlorophenol
7.616	-0.003	203888	7.858	-0.006	303004	22.9535	24.4190	6.2	2,3,6-Trichlorophenol
8.218	-0.024	122858	8.590	-0.025	159514	24.3402	25.5995	5.0	2,4,5-Trichlorophenol
8.766	-0.026	162463	9.355	-0.025	204672	23.7481	24.0919	1.4	2,3,4-Trichlorophenol
8.996	-0.011	334920	9.261	-0.016	459935	23.7437	24.8414	4.5	2,3,5,6-Tetrachlorophenol
10.394	-0.019	245523	11.108	-0.018	324755	23.6104	22.2577	5.9	2,3,4,5-Tetrachlorophenol
6.888	-0.005	114682	7.157	-0.009	156608	231.1922	253.9298	9.4	2,4-Dichlorophenol
9.990	-0.012	302044	10.631	-0.015	449437	24.4	24.1	1.3	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	92.4	88.7
2,4,6-Trichlorophenol	102.0	106.0
2,3,6-Trichlorophenol	91.8	97.7
2,4,5-Trichlorophenol	97.4	102.4
2,3,4-Trichlorophenol	95.0	96.4
2,3,5,6-Tetrachlorophenol	95.0	99.4
2,3,4,5-Tetrachlorophenol	94.4	89.0
2,4-Dichlorophenol	92.5	101.6
2,4,6-TBP (surr)	97.6	96.3



Data File: /chem2/eod1.i/PPCP20100809.b/0813-2.b/0813A049.d

Date : 14-AUG-2010 01:24

Client ID:

Sample Info: PCP CCAL

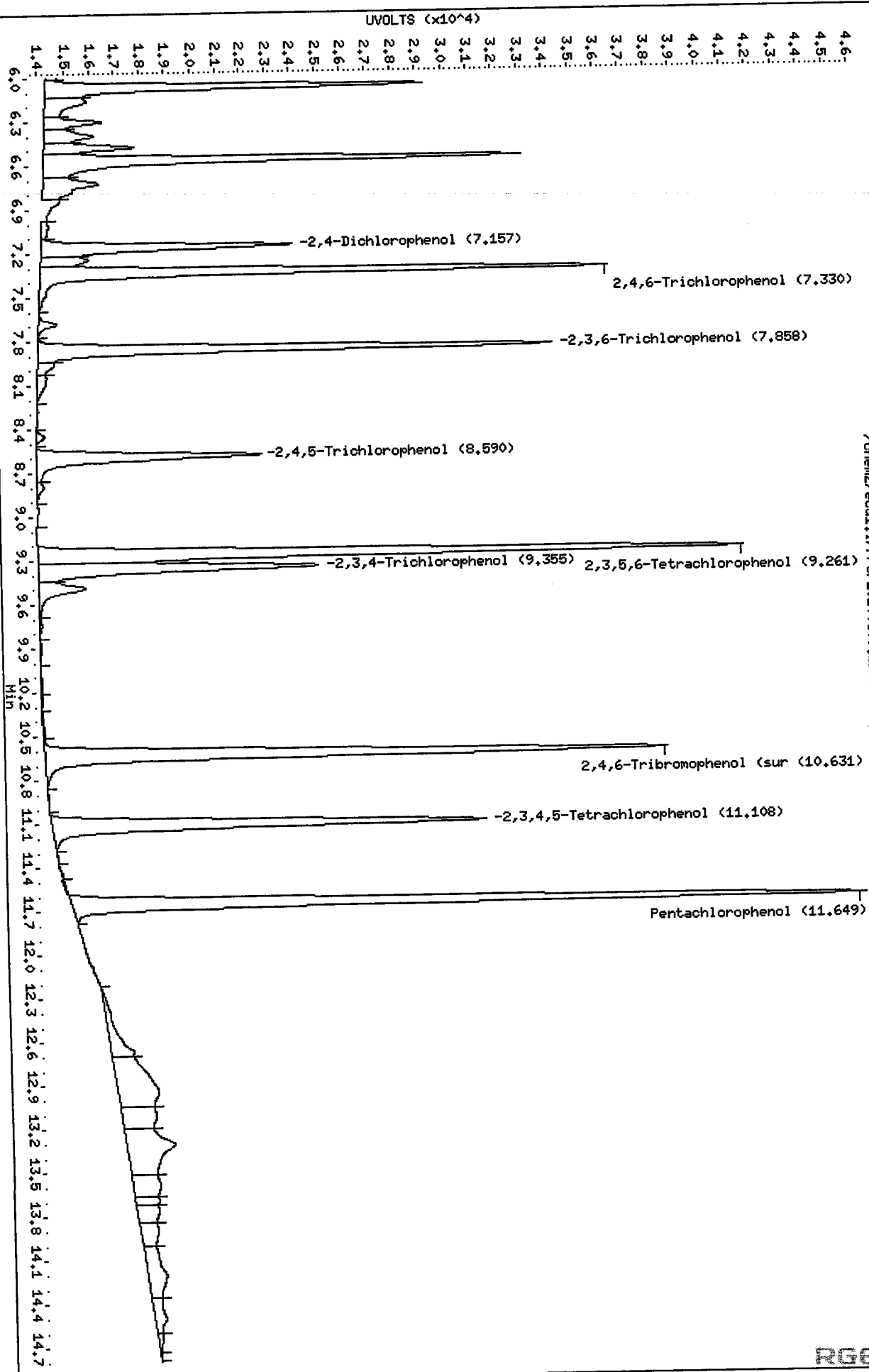
Column phase: ZB35

Instrument: eod1.i

Operator: ar

Column diameter: 0.53

/chem2/eod1.i/PPCP20100809.b/0813-2.b/0813A049.d/0813A049.cdf



**TPHD Raw Data
Extraction Bench Sheets and Notes**

ARI Job ID: RG60



Preparation Test TPHD # 3

ARI Job No(s) R652/R664/R671/RH04

In-House (5ppm)

Batch set up by: SP

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted (wet wt)	Transfer to Turbo Tube	TurboVap 1(2)3	Acid/Silica Clean (1:1) Y/N	TurboVap 1 2(3)	Final Effective Volume	Volume to Lab	Comments
	R652 MBS	Date: 08/05/10	10.00g			Y		1mL	1mL	
	SBS		↓							
	SBS Dup.		↓							
7		C checked	10.05							
7		D	10.05							
7		E	10.07							
7	↓	F	10.05							
6	R660	A	10.06							
6		B	10.04							
6		C	10.05							
6		D	10.01							
6		E	10.05							
6		F	10.02							
6		FMS	10.04							
6	↓	FMSD	10.06							
7	R671	A	10.09							
7	↓	B	10.03							
7	↓	C	10.05							
8	RH04	A	10.01							
8	↓	B	10.07							
8	↓	C	10.01							
				08/05/10						
Analyst/Date: <u>AR 08/05/10</u>					08/26/10	08/26/10	08/26/10	08/26/10	08/26/10	

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	O	100µL	12/11/10	AR	SP
Spike	11	100µL	4/26/11	AR	SP

Extraction Time: 1600 Balance ID: 24150347

- SPECIAL INSTRUCTIONS:** 1. Weigh into 100mL beakers-dry with Sodium Sulfate. 2. Transfer to microwave vessel. 3. Add 20mL DCM to the vessel (if needed-Add 5mL increments until solvent is 1" above soil layer). 4. Add surr/spike. 5. Mix samples thoroughly before microwaving. 6. Microwave on appropriate power setting determined by # of samples. 7. After microwave-let cool 10-15 min. 8. Collect into turbo tube with sm. funnel containing glasswool and 1" sodium sulfate. 9. Add (2) 10mL DCM rinses to vessel and transfer to turbo tube. 10. TurboVap. 11. Acid/Silica Clean-up? (Y/N). 12. TurboVap (if Silica Clean). 13. Vial in DCM.
- A. Need Total Solids Y(N) B. Archive/Freeze Y/N

**TPHD Raw Data
Initial Calibration**

ARI Job ID: RG60



GC Analyst Notes / Corrective Action Log

ARI Project ID: Diesel #2, 30wt Moil Client ID: ARI

ARI SOP: 57cph, n-Traac. CURVE
 403S(PCB) 405S(Herb) 407S(TPH-D) 409S(HCID) 412S(PCP) 423S(Pest)
 427S(Dir Inj) 428S(EPH) 432S(EDB) Other

Parameter(s): Diesel #2, o-Terphenyl, AK102, 30wt Moil, n-Tetracontane

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
 FID-9 ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 7/30/10 Analysis Start: 7/30/10

Endrin/DDT Breakdown <15%?	YES / NO / <u>NA</u>	Method Blank In Control?	YES / NO <u>NA</u>
ICal Meets RF & %RSD Criteria?	<u>YES</u> / NO	LCS/LCSD Recovery In Control?	YES / NO
CCal Meets RF & %RSD Criteria?	<u>YES</u> / NO	Surrogate Recovery In Control?	YES / NO
Manual Integrations for ICal?	<u>YES</u> / NO	Manual Integrations for Samples?	<u>YES</u> / NO
Internal Standard Meets Criteria?	YES / NO / <u>NA</u>	Special Analysis Criteria Met?	YES / NO / <u>NA</u>

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Diesel IUV quants (310/250) = 124%.

M 8/3/10

Additional Details on Reverse: Yes / No

Analyst: MO Date: 8/3/10

Reviewer: AB Date: 8/19/10

Analytical Resources Inc.: Organics Instrument Log

FID-3B Serial No.: US00003232

Date: 7/30/10

Analysis: NWTHD

Analyst: ms

GC Program: TPHCT

Column No: 162178

Column Type: 2PHCT

Instrument Tune (.U or .CT.): _____

EM Voltage: _____

Calibration File: _____

Curve Date: 7/30/10

IS/SS	Ical/Ccal	LCS/ICV
_____	<u>1700-1</u>	_____
_____	<u>1680-3</u>	_____
_____	<u>1730-3</u>	_____
_____	<u>1737-3</u>	_____

Time	Filename	LabID	ClientId	DF	Time	Filename	LabID	ClientId	DF
1	1336	0730b001.d	RINSE	1	23	2158	0730b023.d	DIESEL 2500	1
2	1355	0730b002.d	RINSE	1	24	2217	0730b024.d	DIESEL ICV	1
3	1414	0730b003.d	RINSE	1	25	2236	0730b025.d	MOIL 100	1
4	1433	0730b004.d	RINSE	1	26	2255	0730b026.d	MOIL 250	1
5	1453	0730b005.d	RINSE	1	27	2314	0730b027.d	MOIL 500	1
6	1512	0730b006.d	RINSE	1	28	2332	0730b028.d	MOIL 1000	1
7	1532	0730b007.d	RINSE	1	29	2351	0730b029.d	RINSE	1
8	1551	0730b008.d	RINSE	1	30	0010	0730b030.d	MOIL 2500	1
9	1611	0730b009.d	RINSE	1	31	0028	0730b031.d	RINSE	1
10	1631	0730b010.d	RINSE	1	32	0047	0730b032.d	MOIL 5000	1
11	1650	0730b011.d	RINSE	1	33	0106	0730b033.d	RINSE	1
12	1828	0730b012.d	RINSE	1	34	0125	0730b034.d	MOIL ICV	1
13	1846	0730b013.d	RINSE	1	35	0144	0730b035.d	RINSE	1
14	1906	0730b014.d	RINSE	1	36	0203	0730b036.d	RINSE	1
15	1925	0730b015.d	RINSE	1	37	0222	0730b037.d	DIESEL 250	1
16	1944	0730b016.d	RT	1	38	0240	0730b038.d	MOIL 500	1
17	2004	0730b017.d	IB	1					
18	2023	0730b018.d	DIESEL 50	1					
19	2042	0730b019.d	DIESEL 100	1					
20	2101	0730b020.d	DIESEL 250	1					
21	2120	0730b021.d	DIESEL 500	1					
22	2139	0730b022.d	DIESEL 1000	1					

ms
8/3/10

Maintenance / Comments The back injector is connected to the back detector. Clipped precolumn, detector column and changed presstight.

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/fid3b.i/20100730.b

ARI Job No.: DIES Method: i/20100730.b/ftphfid3b.m Instrument: fid3b.i Date: 30-JUL-2010

Time Filename LabID ClientId DF Manually Integrated Compounds

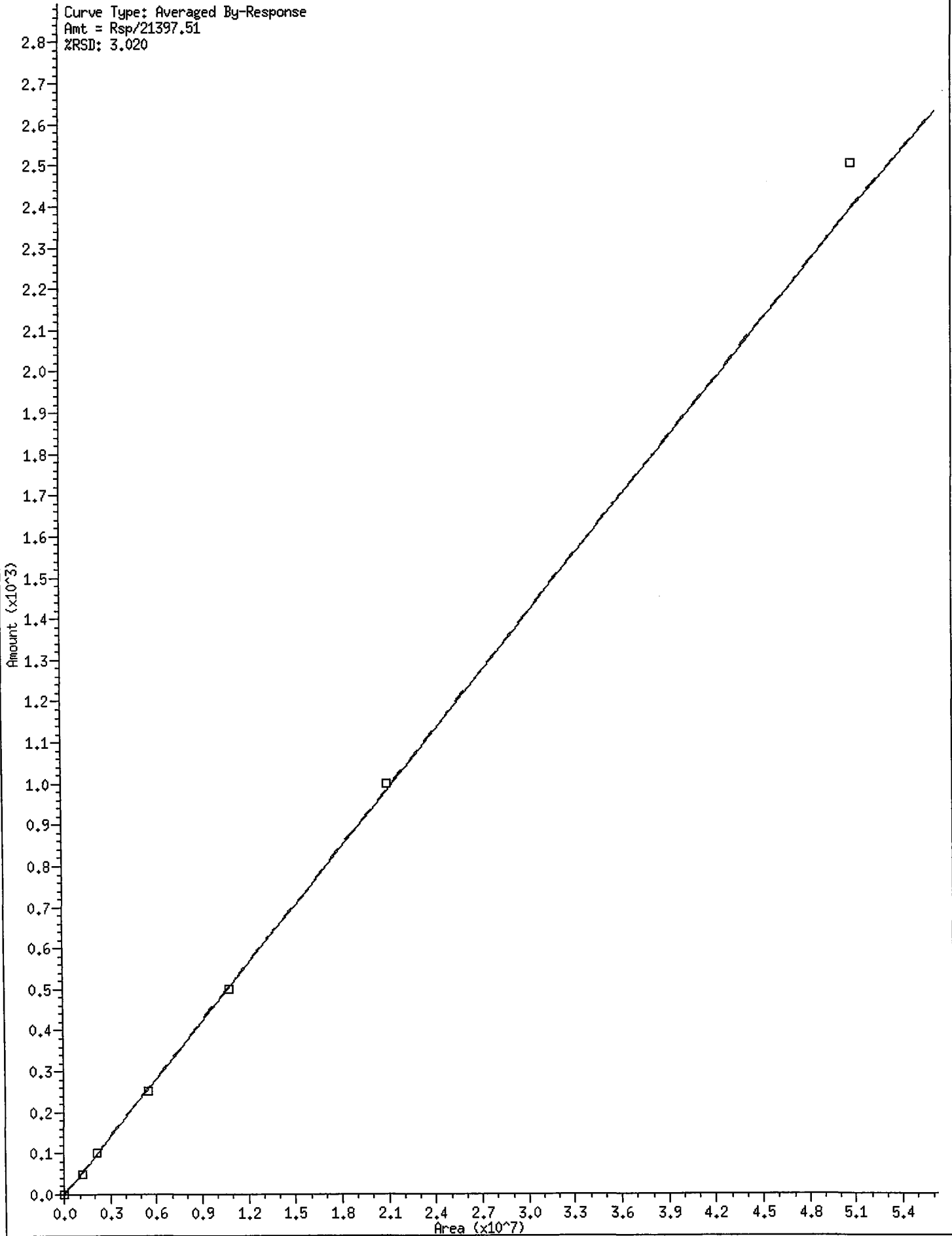
2023	0730b018.d	DIESEL 50		1	o-terph,
2042	0730b019.d	DIESEL 100		1	o-terph,
2101	0730b020.d	DIESEL 250		1	o-terph,
2120	0730b021.d	DIESEL 500		1	o-terph,
2139	0730b022.d	DIESEL 1000		1	o-terph,
2158	0730b023.d	DIESEL 2500		1	o-terph,
2217	0730b024.d	DIESEL ICV		1	o-terph,
2236	0730b025.d	MOIL 100		1	Triacon Surr,
2255	0730b026.d	MOIL 250		1	Triacon Surr,
2314	0730b027.d	MOIL 500		1	Triacon Surr,
2332	0730b028.d	MOIL 1000		1	Triacon Surr,
2351	0730b029.d	RINSE		1	NO MANUAL INTEGRATION
0010	0730b030.d	MOIL 2500		1	Triacon Surr,
0028	0730b031.d	RINSE		1	NO MANUAL INTEGRATION
0047	0730b032.d	MOIL 5000		1	Triacon Surr,
0106	0730b033.d	RINSE		1	NO MANUAL INTEGRATION
0125	0730b034.d	MOIL ICV		1	Triacon Surr,

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/fid3b.i/20100730.b/ftphfid3b.m
 Batch File: /chem3/fid3b.i/20100730.b
 Inst ID: fid3b.i

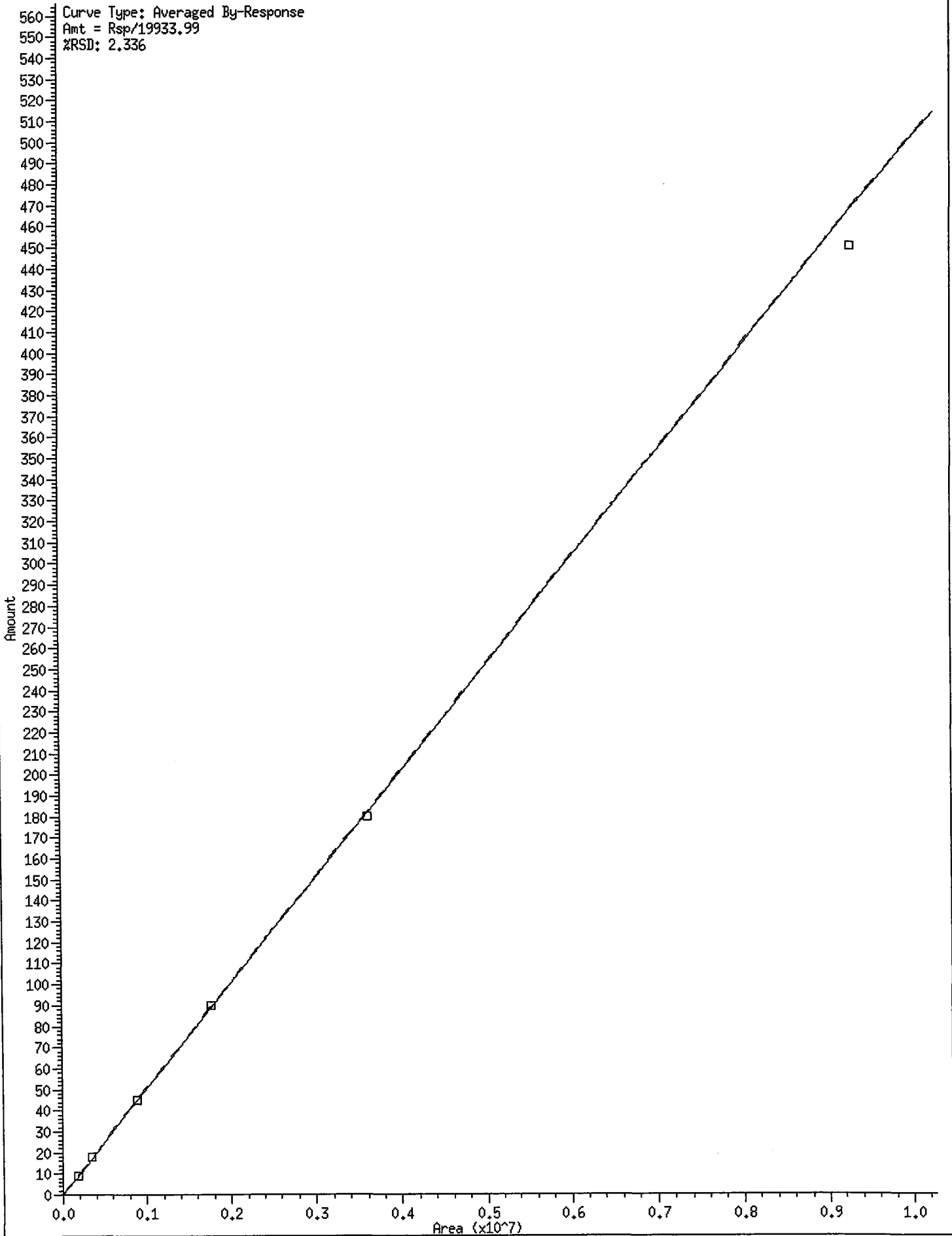
Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
18 Filter Peak	+++++	+++++	+++++	+++++	+++++	+++++	11.120	11.020-11.220	+++++	+++++
19 C36	7.411	7.414	7.415	7.404	7.412	7.414	7.413	7.363-7.463	7.412	0.004
20 C38	7.672	7.670	7.668	7.673	7.673	7.669	7.670	7.620-7.720	7.671	0.002
21 C40	7.915	7.918	7.913	7.906	7.906	7.913	7.918	7.868-7.968	7.912	0.005
29 NW Diesel	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
30 NW Moil	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
31 NW AKI02	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++

1 NW Diesel



* 8 o-terph

Curve Type: Averaged By-Response
Amt = Rsp/19933.99
%RSD: 2.336



RG60 : 00885

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Batch File: /chem3/fid3b.i/20100730.b
Inst ID: fid3b.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	1.033	0.933-1.133	+++++	+++++
2 C8	+++++	+++++	+++++	+++++	+++++	+++++	1.329	1.229-1.429	+++++	+++++
3 C10	2.861	2.860	2.856	2.858	2.857	2.860	2.858	2.808-2.908	2.859	0.002
4 C12	3.472	3.466	3.467	3.470	3.471	3.468	3.468	3.418-3.518	3.469	0.002
5 C14	3.925	3.923	3.922	3.925	3.927	3.927	3.927	3.877-3.977	3.925	0.002
6 C16	4.325	4.322	4.319	4.322	4.322	4.322	4.322	4.271-4.371	4.322	0.002
7 C18	4.673	4.673	4.674	4.677	4.676	4.674	4.675	4.625-4.725	4.674	0.002
8 o-terph	4.766	4.763	4.762	4.758	4.758	4.757	4.762	4.712-4.812	4.761	0.003
9 C20	5.000	4.999	4.998	5.000	4.996	4.996	4.998	4.948-5.048	4.998	0.002
10 C22	5.298	5.293	5.292	5.298	5.295	5.294	5.296	5.246-5.346	5.295	0.003
11 C24	5.605	5.603	5.604	5.601	5.605	5.606	5.603	5.553-5.653	5.604	0.002
12 C25	5.764	5.760	5.766	5.767	5.762	5.760	5.764	5.714-5.814	5.763	0.003
13 C26	5.924	5.923	5.924	5.924	5.928	5.924	5.926	5.876-5.976	5.924	0.002
14 C28	6.245	6.240	6.245	6.246	6.238	6.245	6.244	6.194-6.294	6.243	0.003
15 Triacon Surr	6.558	6.557	6.561	6.568	6.581	6.604	6.559	6.509-6.609	6.571	0.018
16 C32	6.858	6.855	6.858	6.854	6.857	6.855	6.856	6.806-6.906	6.856	0.002
17 C34	7.140	7.138	7.139	7.141	7.138	7.144	7.141	7.091-7.191	7.140	0.002

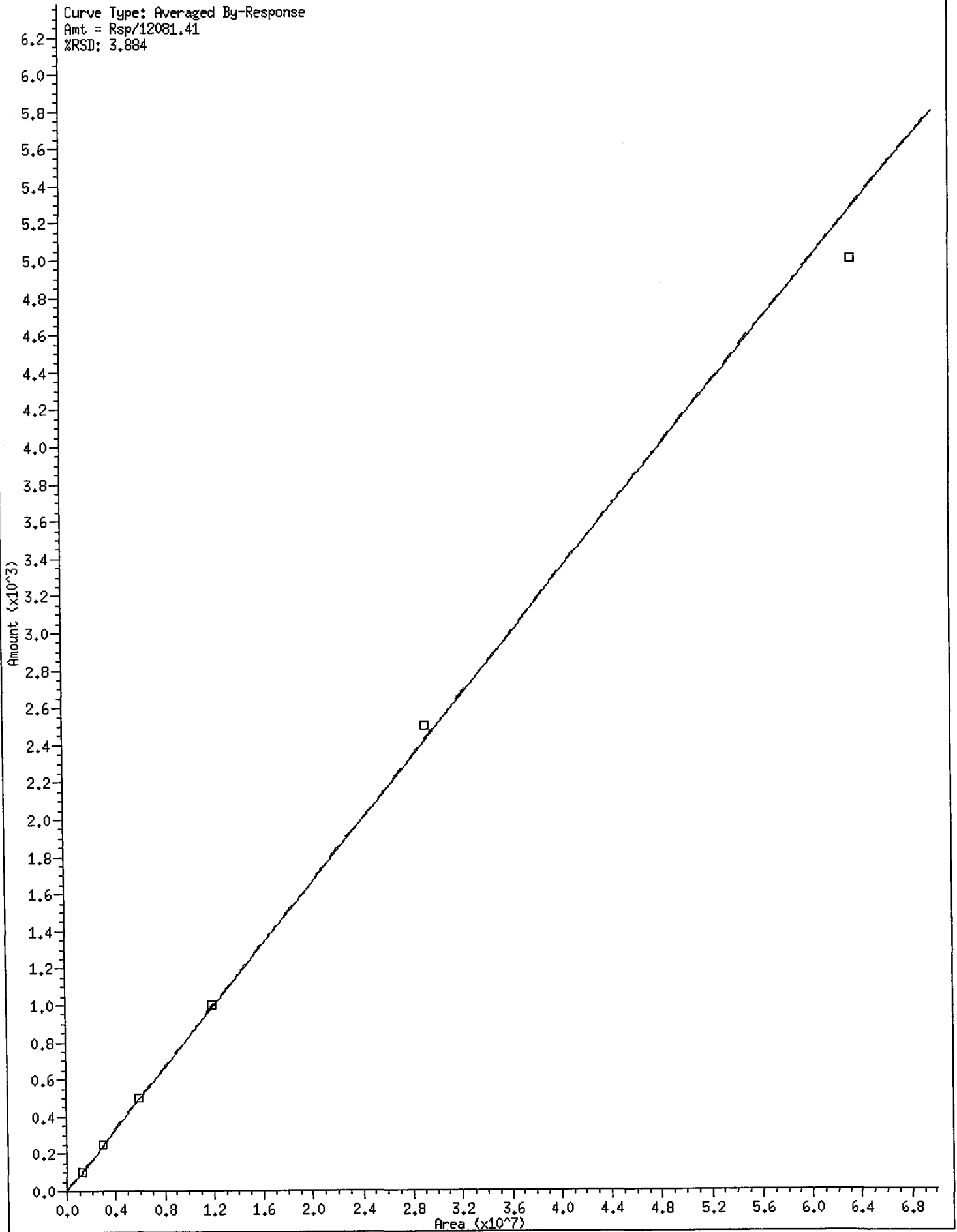
Reviewer 1 M Date: 8/3/10
Reviewer 2 AB Date: 8/19/10

Report Date : 03-Aug-2010 19:42

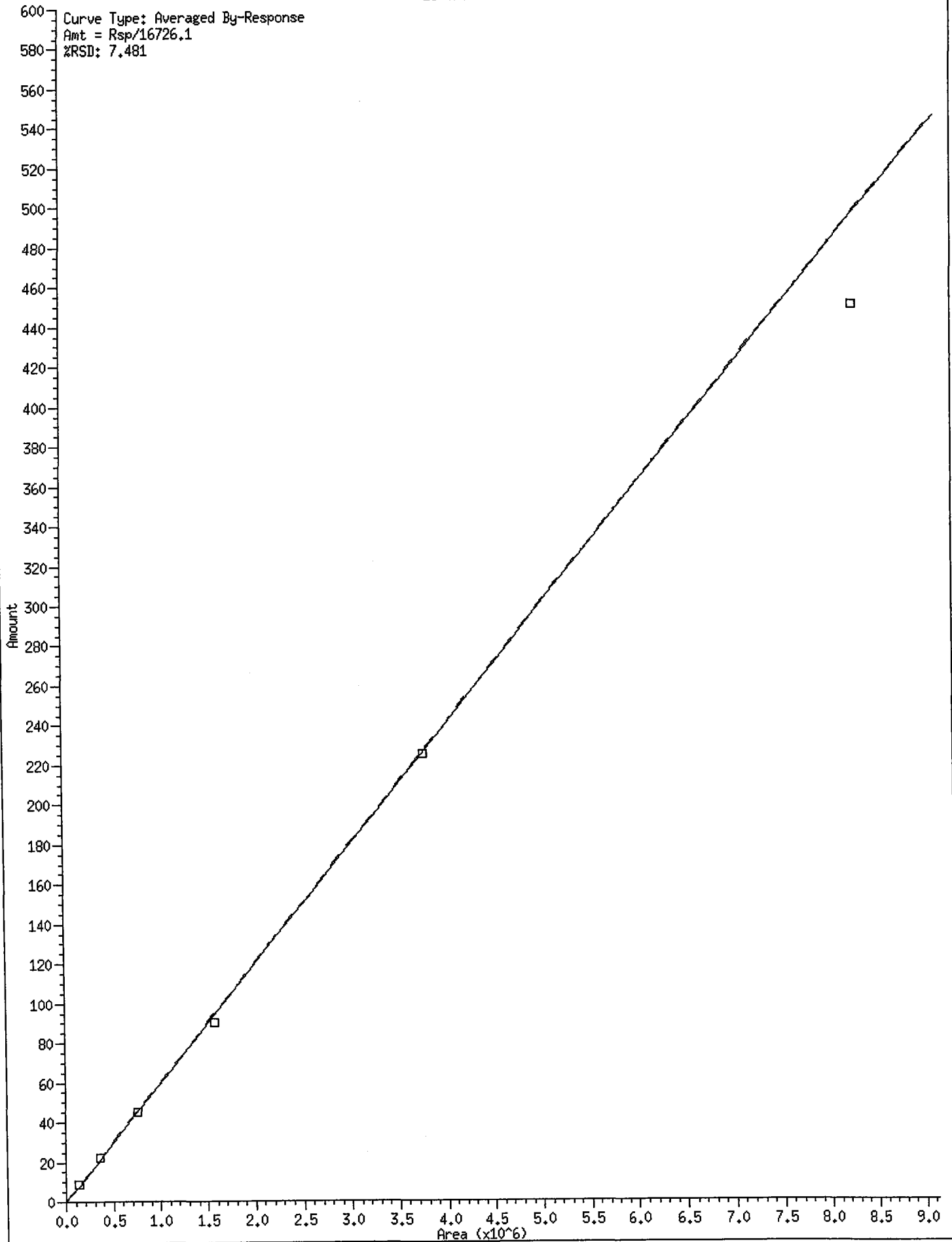
Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Batch File: /chem3/fid3b.i/20100730.b
Inst ID: fid3b.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
18 Filter Peak	+++++	+++++	+++++	+++++	+++++	+++++	11.120	11.020-11.220	+++++	+++++
19 C36	7.413	7.411	7.414	7.409	7.411	7.412	7.413	7.363-7.463	7.411	0.001
20 C38	7.672	7.671	7.668	7.668	7.670	7.669	7.670	7.620-7.720	7.670	0.002
21 C40	7.918	7.921	7.915	7.917	7.920	7.919	7.918	7.868-7.968	7.918	0.002
29 NW Diesel	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
30 NW Moil	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
31 NW AK102	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++



* 15 Triacon Surr



RG60 : 00889

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b016.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: RT
Client ID:
Injection: 30-JUL-2010 19:44
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.033	0.000	456879	337608	GAS (Tol-C12)	1097687	40
C8	1.329	0.000	189901	240601	DIESEL (C12-C24)	1496059	70
C10	2.858	0.000	416657	232827	M.OIL (C24-C38)	1934119	160
C12	3.468	0.000	440250	214823	AK-102 (C10-C25)	1992788	83
C14	3.927	0.000	363188	216701	AK-103 (C25-C36)	1675056	188
C16	4.321	0.000	362104	222398	OR.DIES (C10-C28)	2818677	134
C18	4.675	0.000	368496	232634	OR.MOIL (C28-C40)	1352255	120
C20	4.998	0.000	363866	224926			
C22	5.296	0.000	339422	219901	STODDARD (C8-C12)	760079	27
C24	5.603	0.000	316031	231954			
C25	5.764	0.000	406879	323181			
C26	5.926	0.000	277906	237107			
C28	6.244	0.000	281413	242400			
C32	6.856	0.000	279045	260188			
C34	7.141	0.000	288583	263124	CREOSOT (C8-C22)	2002088	313
Filter Peak	----						
C36	7.413	0.000	290595	273201	BUNKERC (C10-C38)	3920470	454
o-terph	4.762	0.000	1421275	843115	JET-A (C10-C18)	1245736	79
Triacon Surr	6.559	0.000	941111	866222	IT.MOIL (C24-C40)	3050803	142

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

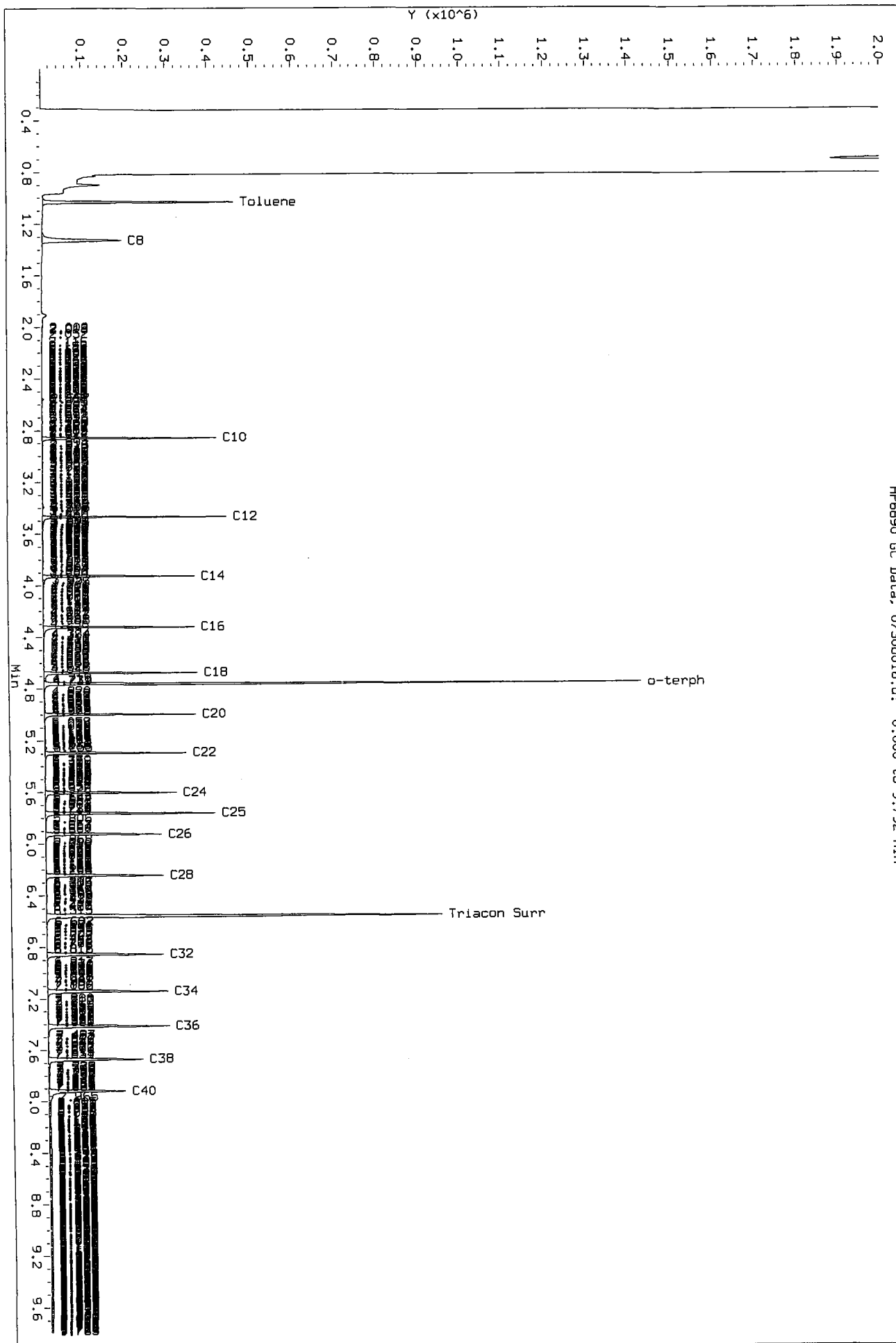
Surrogate	Area	Amount	%Rec
o-Terphenyl	843115	42.3	94.0
Triacontane	866222	51.8	115.1

MS 8/31/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.1/20100730.b/0730b016.d
Injection Date: 30-JUL-2010 19:44
Instrument: fid3b.1
Client Sample ID:

HP6890 GC Data, 0730b016.d: 0.000 to 9.792 Min



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b017.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: IB
Client ID:
Injection: 30-JUL-2010 20:04
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.000	-1.033	0	0	GAS (Tol-C12)	53274	2
C8	----				DIESEL (C12-C24)	47392	2
C10	2.862	0.004	1018	855	M.OIL (C24-C38)	100239	8
C12	3.465	-0.003	808	432	AK-102 (C10-C25)	79393	3
C14	3.930	0.003	519	242	AK-103 (C25-C36)	76073	9
C16	4.323	0.002	239	128	OR.DIES (C10-C28)	81657	4
C18	4.670	-0.005	270	244	OR.MOIL (C28-C40)	127566	11
C20	4.988	-0.009	613	377			
C22	5.297	0.001	134	75	STODDARD (C8-C12)	53274	2
C24	5.602	-0.001	51	29			
C25	5.763	0.000	38	5			
C26	5.931	0.005	74	34			
C28	6.246	0.002	316	369			
C32	6.869	0.013	2077	3970			
C34	7.141	0.000	908	924	CREOSOT (C8-C22)	99784	16
Filter Peak	----						
C36	7.409	-0.004	1090	324	BUNKERC (C10-C38)	179595	21
o-terph	4.762	0.000	1553537	869035	JET-A (C10-C18)	60151	4
Triacon Surr	6.563	0.004	818399	711389	IT.MOIL (C24-C40)	841256	39

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	869035	43.6	96.9
Triacontane	711389	42.5	94.5

MS 8/3/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100730.b/0730b017.d
Date : 30-JUL-2010 20:04

Client ID:

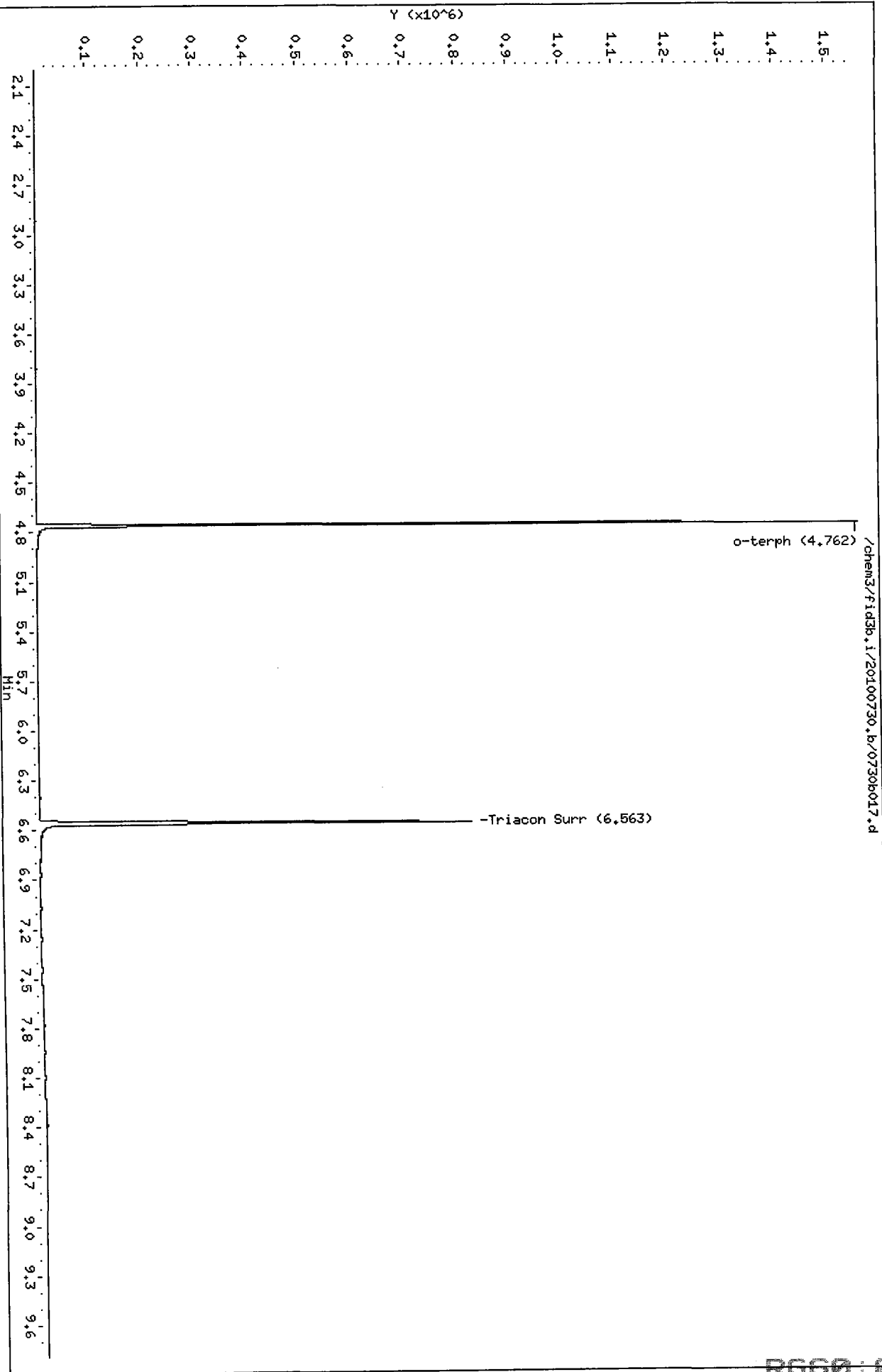
Sample Info: IB

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b018.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: DIESEL 50
Client ID:
Injection: 30-JUL-2010 20:23
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.000	-1.033	0	0	GAS (To1-C12)	203100	7
C8	----				DIESEL (C12-C24)	1110903	52
C10	2.859	0.001	5638	4849	M.OIL (C24-C38)	63488	5
C12	3.468	0.001	8865	7583	AK-102 (C10-C25)	1263931	52
C14	3.925	-0.001	21926	23612	AK-103 (C25-C36)	40579	5
C16	4.321	0.000	39235	39802	OR.DIES (C10-C28)	1274848	60
C18	4.674	-0.001	39296	35683	OR.MOIL (C28-C40)	78683	7
C20	4.998	0.000	18246	22375			
C22	5.299	0.003	5339	5505	STODDARD (C8-C12)	203100	7
C24	5.597	-0.006	1196	621			
C25	5.760	-0.003	625	310			
C26	5.922	-0.003	296	159			
C28	6.242	-0.002	52	16			
C32	6.842	-0.013	172	67			
C34	7.141	0.000	373	160	CREOSOT (C8-C22)	1280826	200
Filter Peak	----						
C36	7.411	-0.002	735	302	BUNKERC (C10-C38)	1323852	153
o-terph	4.759	-0.003	369839	176329	JET-A (C10-C18)	945094	60
Triacon Surr	6.558	-0.001	38	9	IT.MOIL (C24-C40)	93176	4

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

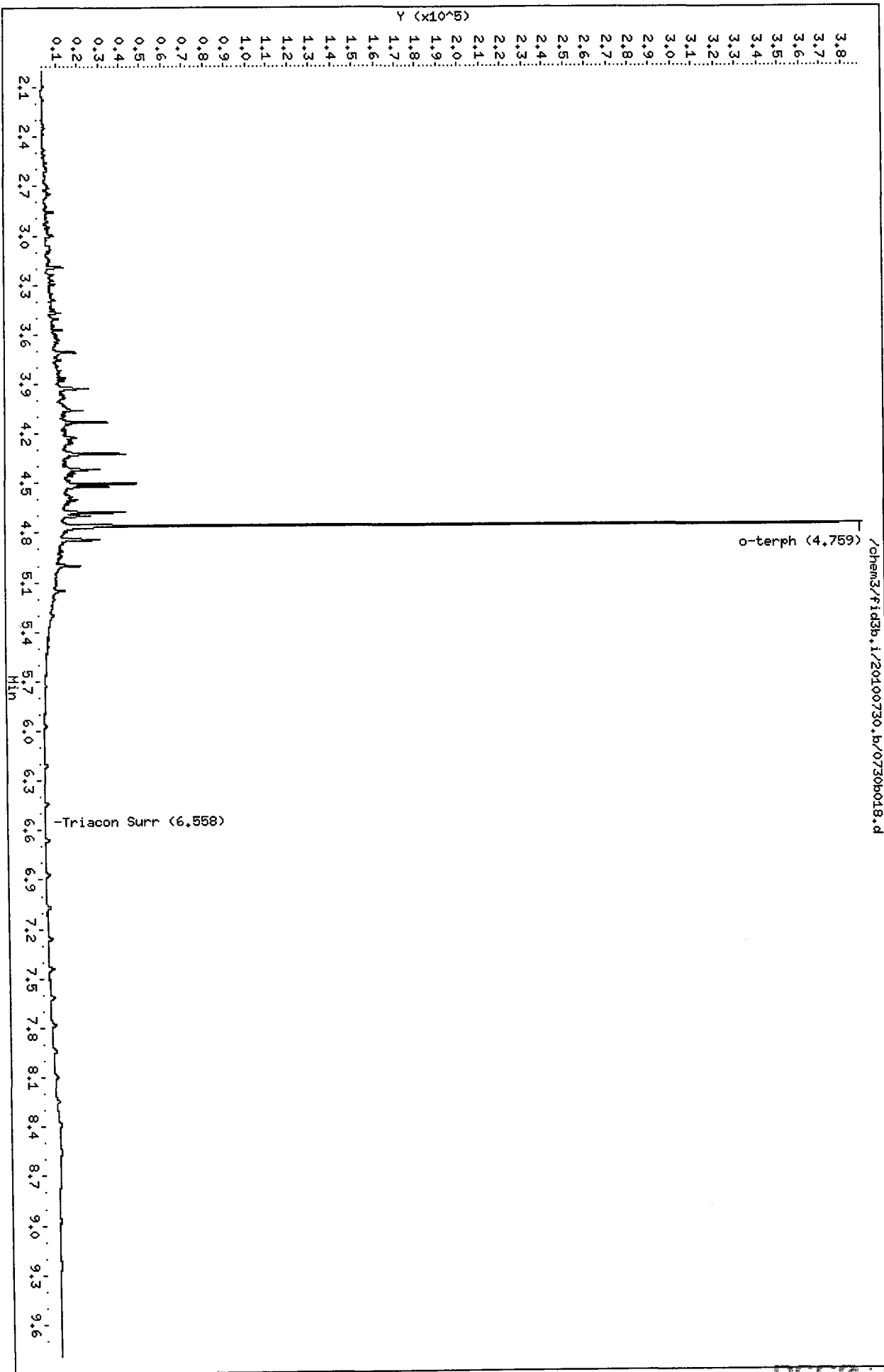
Surrogate	Area	Amount	%Rec
o-Terphenyl	176329	8.8	19.7
Triacontane	9	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst MS Date 8/3/10



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b019.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: DIESEL 100
Client ID:
Injection: 30-JUL-2010 20:42
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.000	-1.033	0	0	GAS (Tol-C12)	357151	13
C8	----				DIESEL (C12-C24)	2117036	99
C10	2.858	0.000	10639	8623	M.OIL (C24-C38)	49930	4
C12	3.467	-0.001	21033	17918	AK-102 (C10-C25)	2395904	99
C14	3.924	-0.003	50684	48589	AK-103 (C25-C36)	30461	3
C16	4.320	-0.001	89321	73174	OR.DIES (C10-C28)	2410790	114
C18	4.674	-0.001	82793	68218	OR.MOIL (C28-C40)	55412	5
C20	4.997	-0.001	44397	37760			
C22	5.295	-0.001	15167	18309	STODDARD (C8-C12)	357151	13
C24	5.601	-0.003	2183	553			
C25	5.767	0.003	1066	252			
C26	5.926	0.000	515	99			
C28	6.242	-0.003	97	42			
C32	6.845	-0.010	124	24			
C34	7.140	-0.002	297	98	CREOSOT (C8-C22)	2410629	377
Filter Peak	----						
C36	7.414	0.000	654	220	BUNKERC (C10-C38)	2440659	282
o-terph	4.761	-0.001	724883	349103	JET-A (C10-C18)	1787874	113
Triacon Surr	6.562	0.003	35	12	IT.MOIL (C24-C40)	75484	4

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	349103	17.5	38.9
Triacontane	12	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst MS Date 8/3/10

Data File: /chem3/fid3b.i/20100730.b/0730b019.d

Date: 30-JUL-2010 20:42

Client ID:

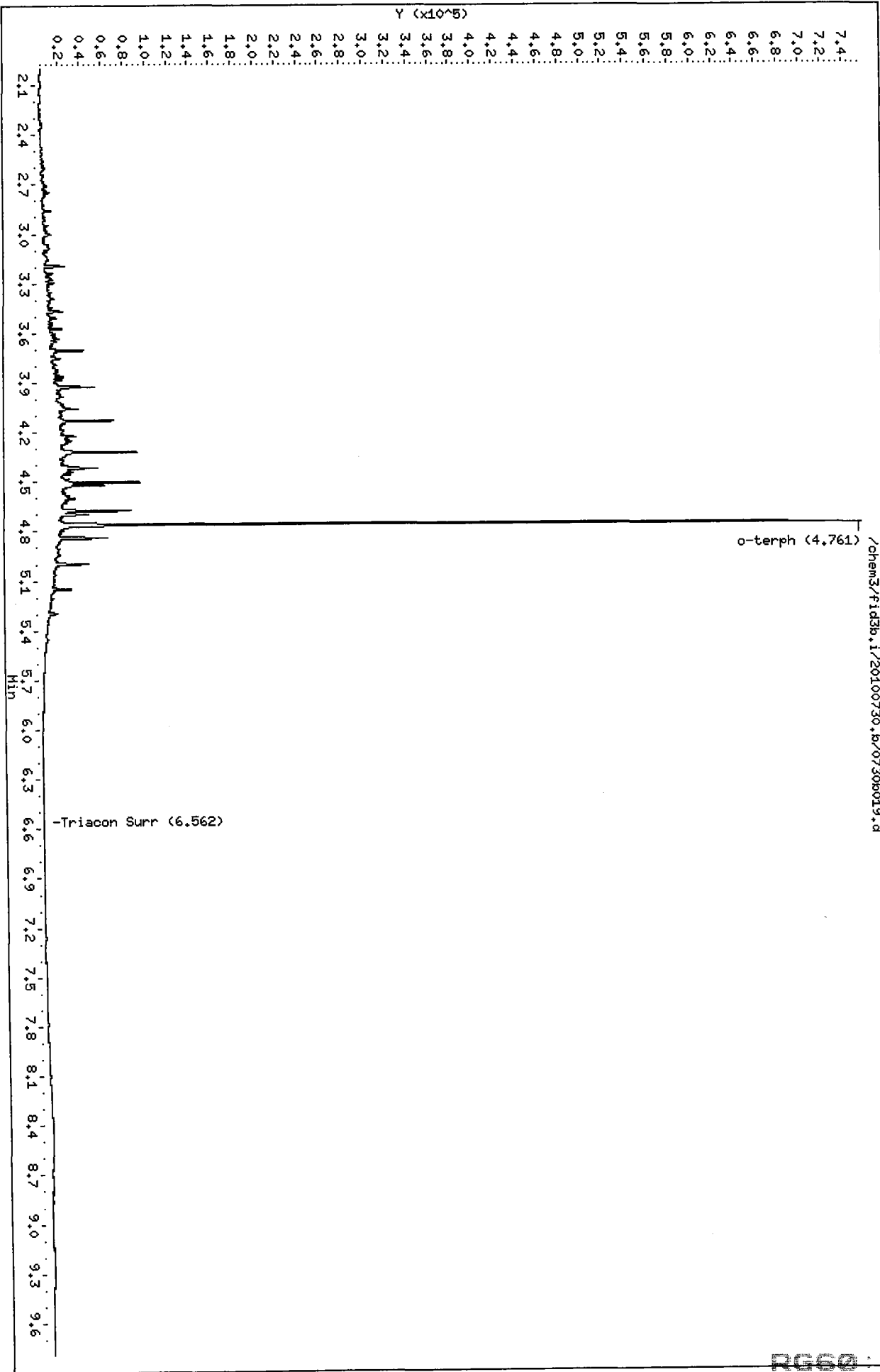
Sample Info: DIESEL 100

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



7660 00897

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b020.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: DIESEL 250
Client ID:
Injection: 30-JUL-2010 21:01
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.000	-1.033	0	0	GAS (Tol-C12)	832540	30
C8	----				DIESEL (C12-C24)	5489470	257
C10	2.857	-0.001	26815	24142	M.OIL (C24-C38)	83893	7
C12	3.467	-0.001	68591	49107	AK-102 (C10-C25)	6156318	255
C14	3.925	-0.002	140104	127189	AK-103 (C25-C36)	56030	6
C16	4.321	0.000	232770	207768	OR.DIES (C10-C28)	6196310	294
C18	4.675	0.000	208305	168485	OR.MOIL (C28-C40)	57280	5
C20	4.996	-0.001	126032	107297			
C22	5.293	-0.003	50635	46451	STODDARD (C8-C12)	832540	30
C24	5.604	0.001	9772	11489			
C25	5.766	0.003	3129	1191			
C26	5.921	-0.004	1314	959			
C28	6.242	-0.002	220	92			
C32	6.846	-0.010	82	35			
C34	7.139	-0.002	240	125	CREOSOT (C8-C22)	6143951	961
Filter Peak	----						
C36	7.415	0.002	533	105	BUNKERC (C10-C38)	6227250	720
o-terph	4.763	0.001	1611540	900101	JET-A (C10-C18)	4563495	288
Triacon Surr	6.553	-0.006	23	12	IT.MOIL (C24-C40)	110245	5

Range Times: NW Diesel (3.518 - 5.653) NW Gas (0.983 - 3.518) NW M.Oil (5.653 - 7.720)
AK102 (2.808 - 5.714) AK103 (5.714 - 7.463) Jet A (2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	900101	45.2	100.3
Triacontane	12	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

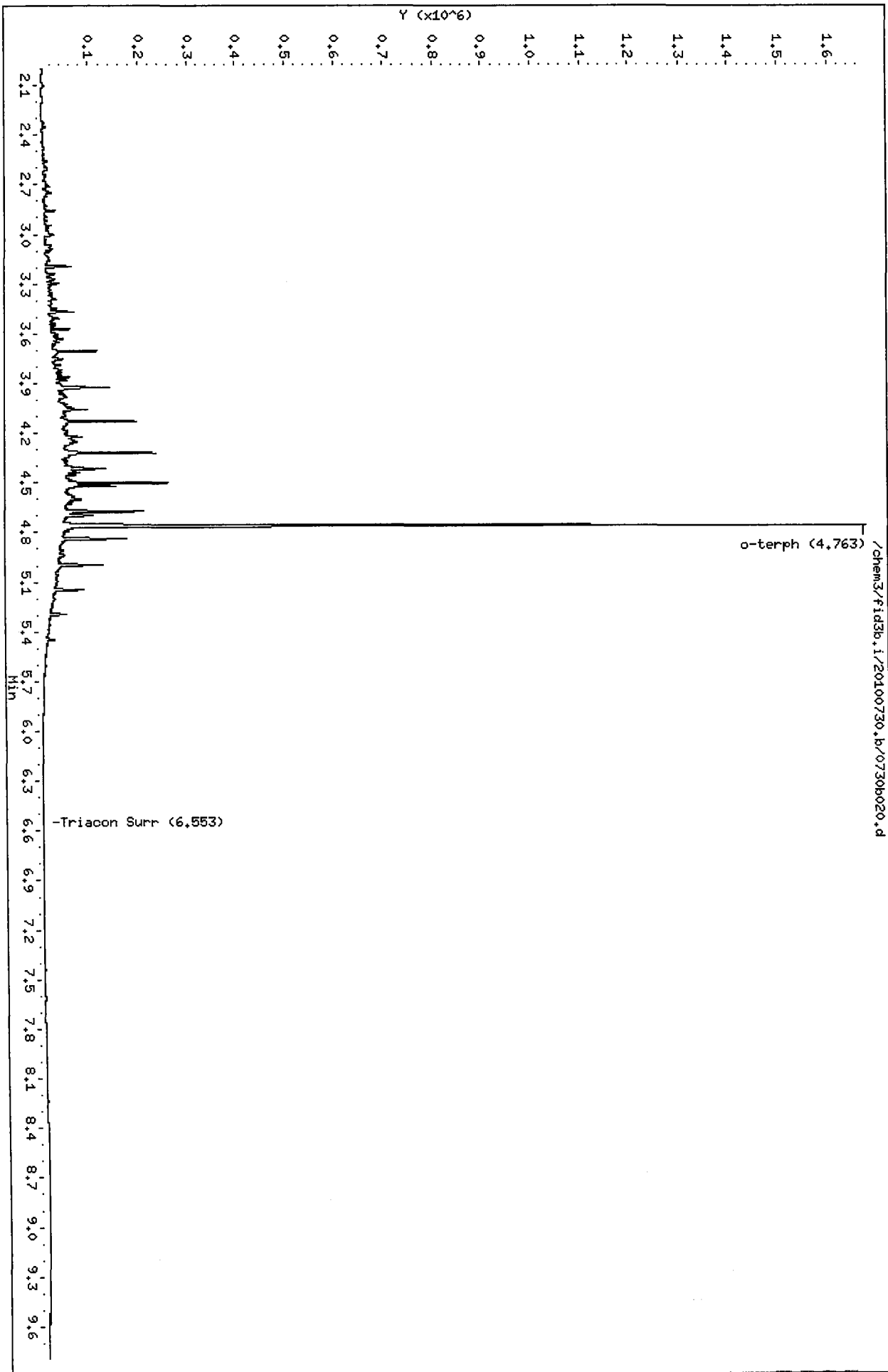
MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst ms Date 8/3/10

Data File: /chem3/fid3b.i/20100730.b/0730b020.d
Date: 30-JUL-2010 21:01
Client ID:
Sample Info: DIESEL 250
Column phase: RTX-1

Instrument: fid3b.i
Operator: HS
Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b021.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: DIESEL 500
Client ID:
Injection: 30-JUL-2010 21:20
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.000	-1.033	0	0	GAS (Tol-C12)	1605957	59
C8	----				DIESEL (C12-C24)	10782573	504
C10	2.859	0.001	57423	40767	M.OIL (C24-C38)	193569	16
C12	3.467	-0.001	150148	107232	AK-102 (C10-C25)	12080374	501
C14	3.925	-0.002	281705	192683	AK-103 (C25-C36)	138842	16
C16	4.321	0.000	459275	397727	OR.DIES (C10-C28)	12158488	577
C18	4.676	0.001	438078	346941	OR.MOIL (C28-C40)	138643	12
C20	4.998	0.000	247680	229025			
C22	5.294	-0.002	107189	91506	STODDARD (C8-C12)	1605957	58
C24	5.603	-0.001	25044	36788			
C25	5.764	0.000	8933	11255			
C26	5.928	0.002	2767	880			
C28	6.244	0.000	417	209			
C32	6.866	0.010	6270	6679			
C34	7.138	-0.003	199	114	CREOSOT (C8-C22)	12025891	1880
Filter Peak	----						
C36	7.404	-0.009	435	170	BUNKERC (C10-C38)	12247345	1417
o-terph	4.766	0.004	2832336	1779428	JET-A (C10-C18)	8975857	566
Triacon Surr	6.562	0.003	37	8	IT.MOIL (C24-C40)	243363	11

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1779428	89.3	198.4
Triacantane	8	0.0	0.0

MANUAL ADJUSTMENTS

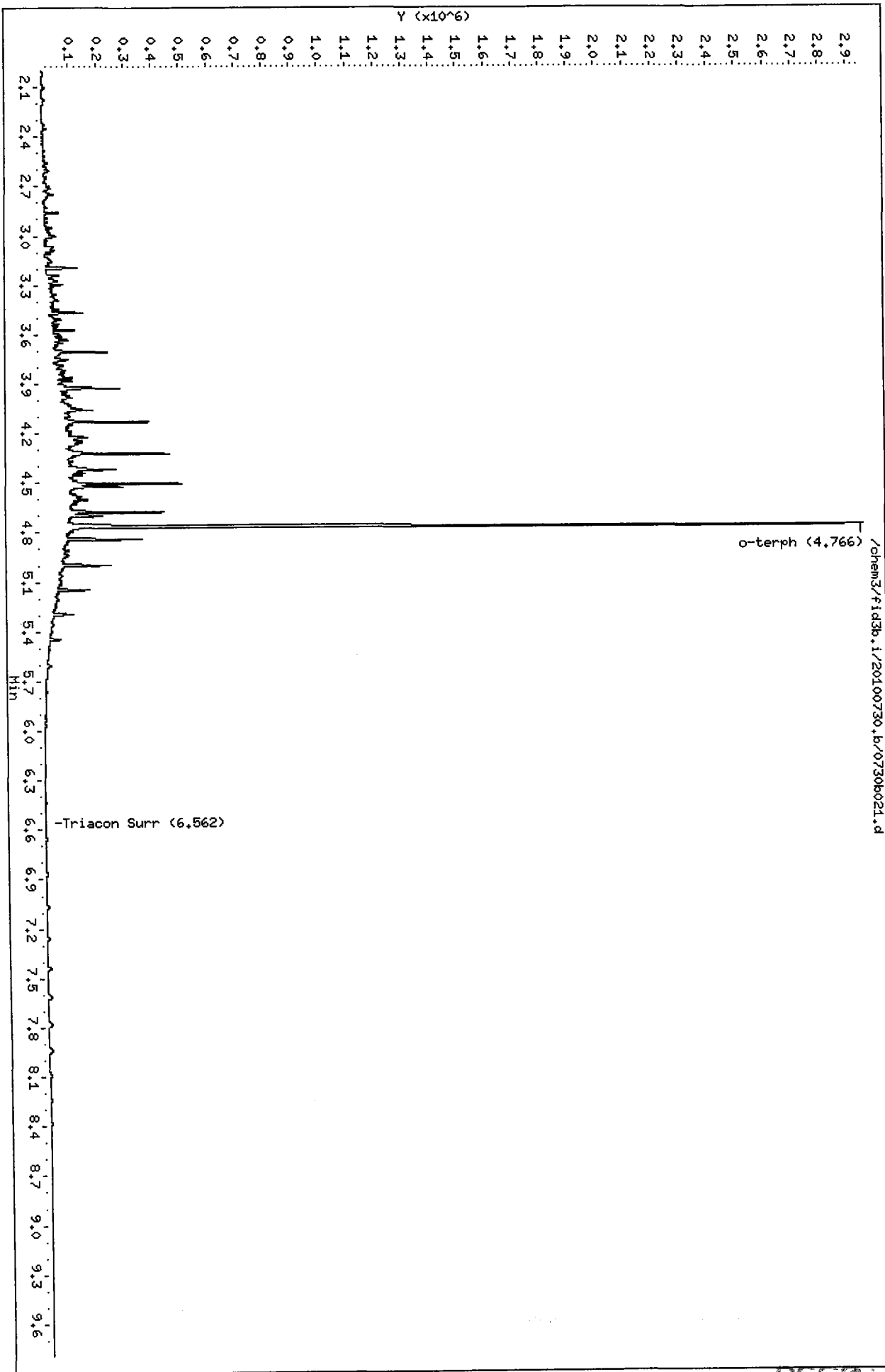
1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst MS Date 8/3/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010 //
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010 /
Diesel	21397.5	30-JUL-2010 /
Motor Oil	12081.4	30-JUL-2010 /
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100730.b/0730b021.d
Date: 30-JUL-2010 21:20
Client ID:
Sample Info: DIESEL 500
Column phase: RTX-1

Instrument: fid3b.i
Operator: HS
Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b022.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: DIESEL 1000
Client ID:
Injection: 30-JUL-2010 21:39
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.000	-1.033	0	0	GAS (Tol-C12)	3183656	116
C8	----				DIESEL (C12-C24)	21008398	982
C10	2.859	0.001	116245	79992	M.OIL (C24-C38)	246197	20
C12	3.468	0.000	303568	209857	AK-102 (C10-C25)	23623694	980
C14	3.926	-0.001	587854	482277	AK-103 (C25-C36)	175618	20
C16	4.323	0.002	905598	796869	OR.DIES (C10-C28)	23782497	1128
C18	4.678	0.002	807496	638826	OR.MOIL (C28-C40)	50889	5
C20	4.998	0.000	504752	389992			
C22	5.295	-0.001	227321	199991	STODDARD (C8-C12)	3183656	115
C24	5.602	-0.001	59793	78521			
C25	5.763	-0.001	23276	31928			
C26	5.926	0.000	7146	5485			
C28	6.246	0.002	980	756			
C32	6.846	-0.010	31	8			
C34	7.142	0.001	155	78	CREOSOT (C8-C22)	23499171	3674
Filter Peak	----						
C36	7.412	-0.001	462	183	BUNKERC (C10-C38)	23812236	2755
o-terph	4.774	0.012	5143602	3623484	JET-A (C10-C18)	17422692	1099
Triacon Surr	6.558	-0.001	143	74	IT.MOIL (C24-C40)	267420	12

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

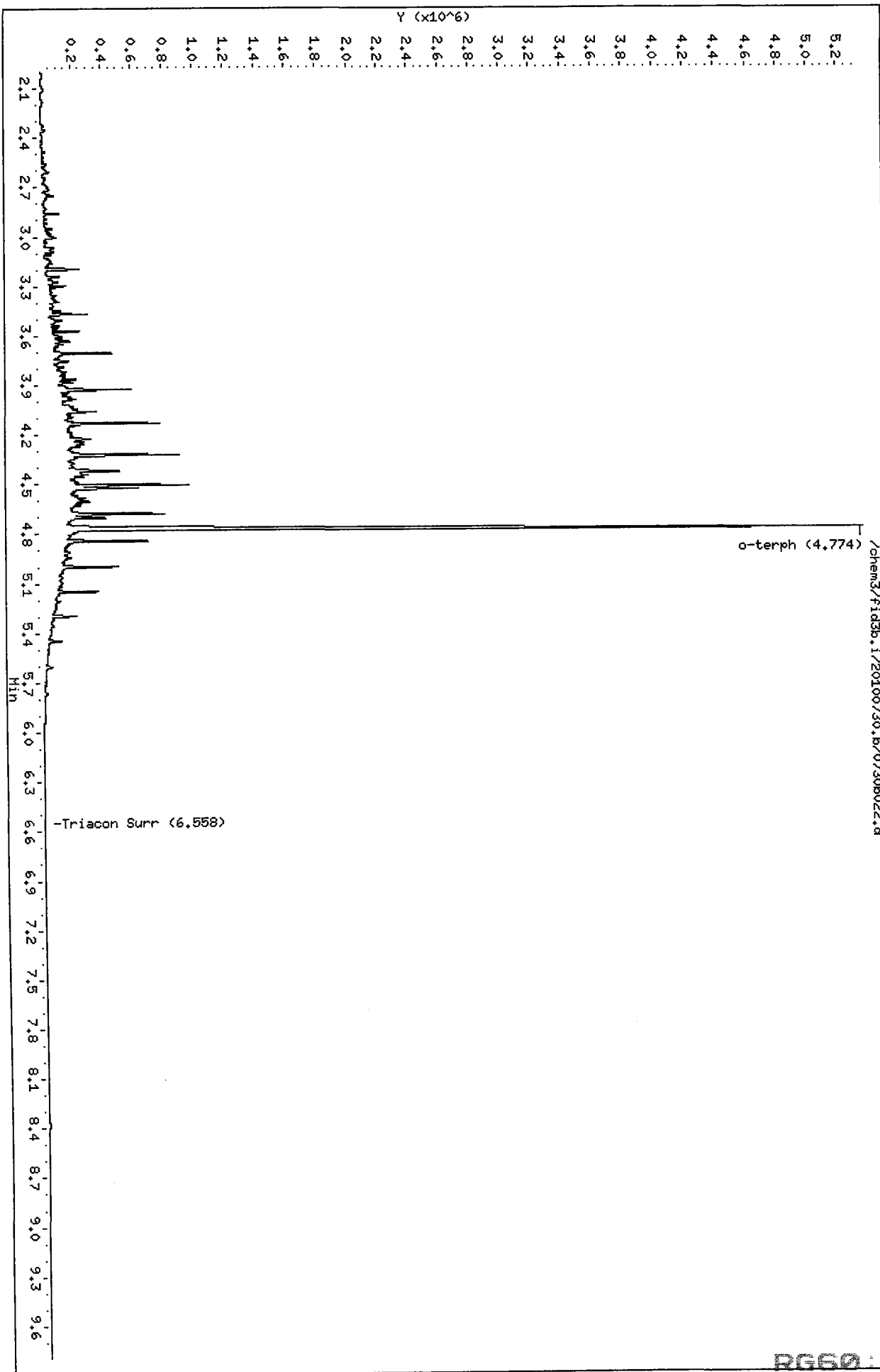
Surrogate	Area	Amount	%Rec
o-Terphenyl	3623484	181.8	403.9
Triacontane	74	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst Mu Date 8/3/10



RG60:00903

Date: 30-JUL-2010 21:58

Client ID:

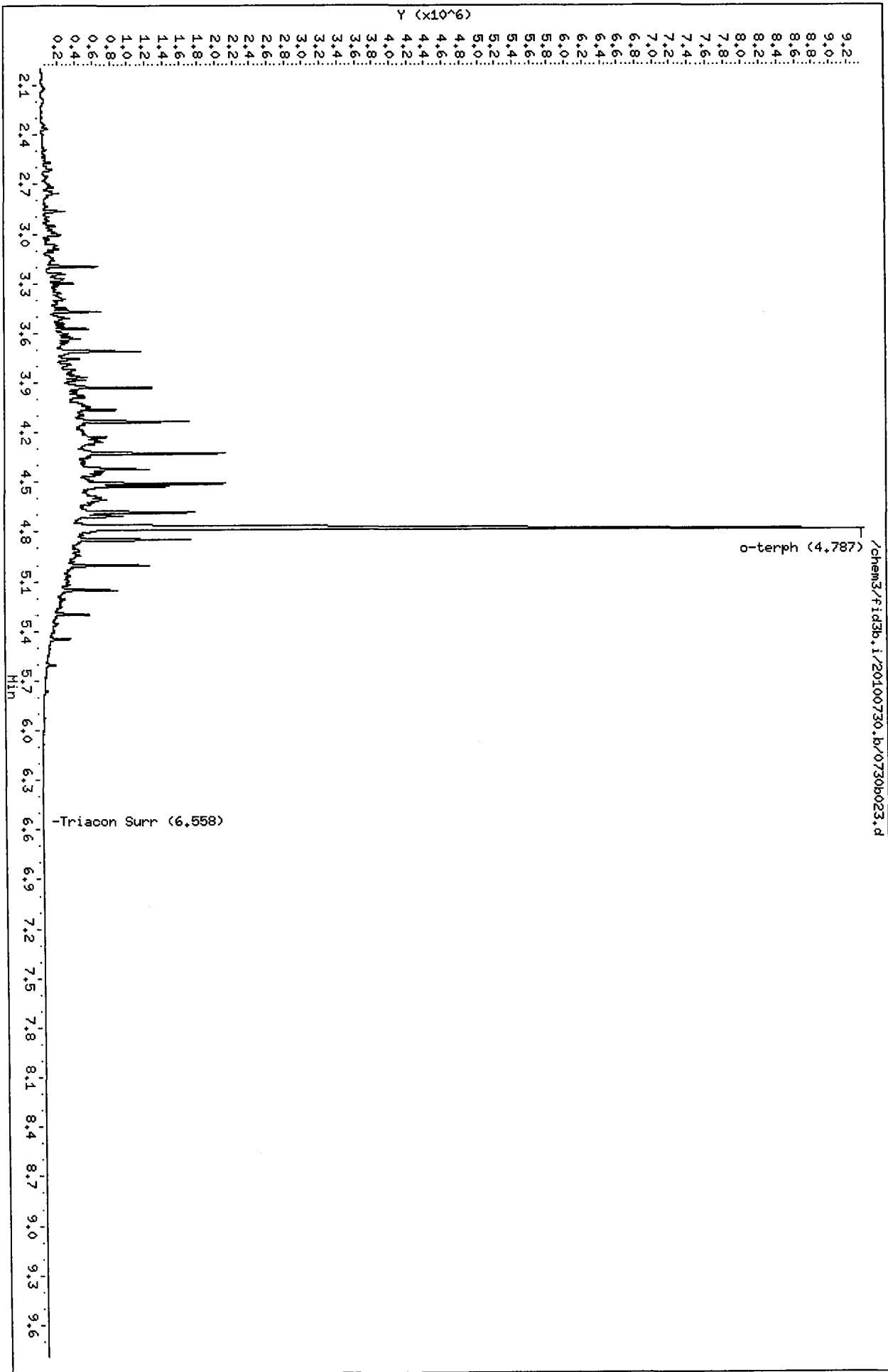
Instrument: fid3b.i

Sample Info: DIESEL 2500

Operator: HS

Column phase: RTX-1

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b024.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: DIESEL ICV
Client ID:
Injection: 30-JUL-2010 22:17
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	1033627	38
C8	----				DIESEL (C12-C24)	6633491	310
C10	2.859	0.001	35248	24957	M.OIL (C24-C38)	127459	11
C12	3.467	0.000	86410	59948	AK-102 (C10-C25)	7469067	310
C14	3.926	-0.001	173324	148864	AK-103 (C25-C36)	93021	10
C16	4.320	-0.001	296816	249967	OR.DIES (C10-C28)	7515320	356
C18	4.676	0.000	273795	228555	OR.MOIL (C28-C40)	99093	9
C20	4.997	-0.001	155638	143379			
C22	5.294	-0.002	60394	56049	STODDARD (C8-C12)	1033627	37
C24	5.605	0.002	13282	16336			
C25	5.765	0.001	4054	633			
C26	5.927	0.001	1441	1201			
C28	6.248	0.004	261	48			
C32	6.870	0.014	5168	4822			
C34	7.140	-0.001	246	62	CREOSOT (C8-C22)	7455713	1166
Filter Peak	----						
C36	7.410	-0.003	515	121	BUNKERC (C10-C38)	7579454	877
o-terph	4.764	0.002	2022776	1079874	JET-A (C10-C18)	5495826	347
Triacon Surr	6.562	0.003	18	7	IT.MOIL (C24-C40)	162424	8

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

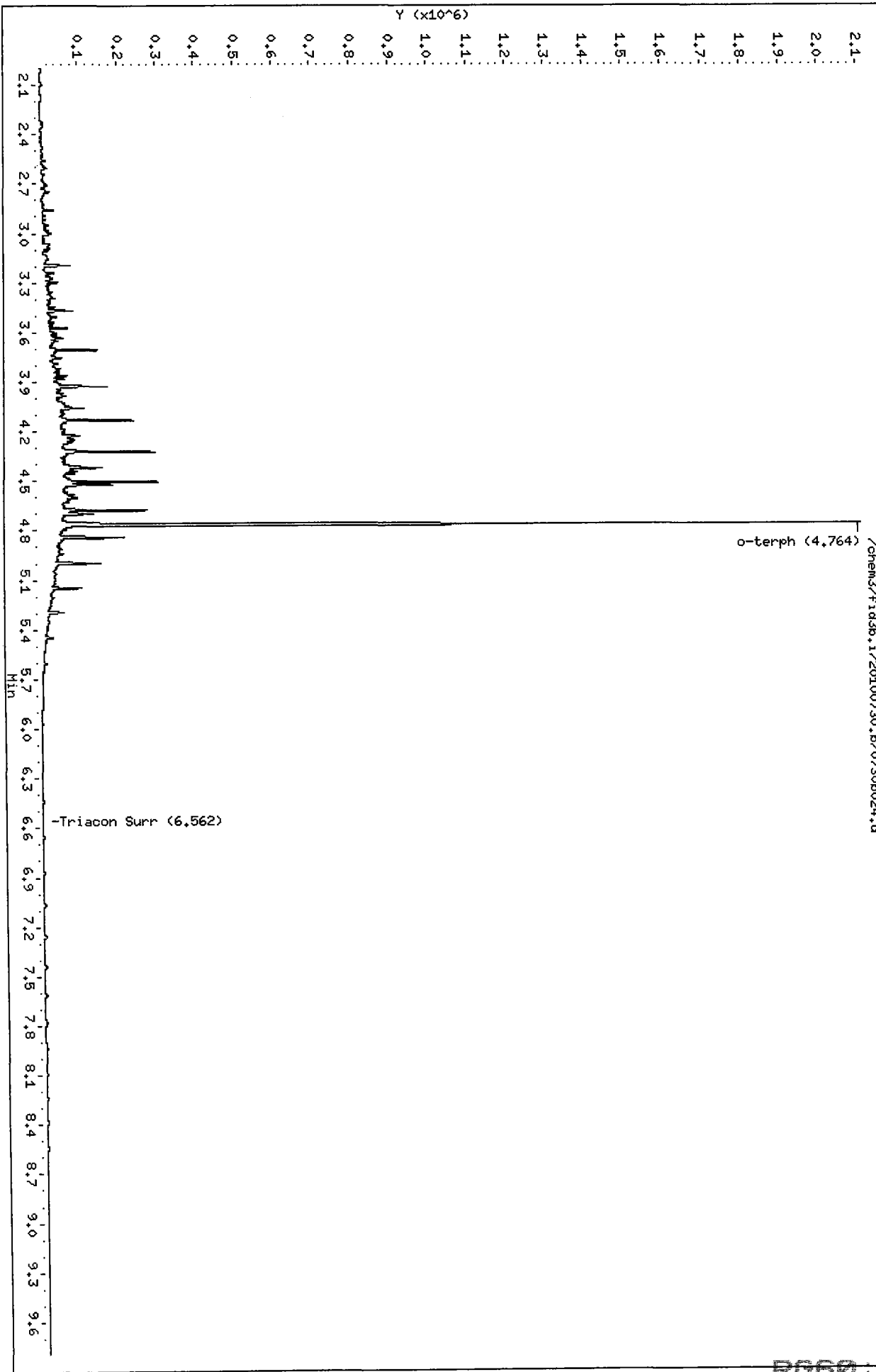
Surrogate	Area	Amount	%Rec
o-Terphenyl	1079874	54.2	120.4
Triacontane	7	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst MS Date 8/3/10



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b025.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: MOIL 100
Client ID:
Injection: 30-JUL-2010 22:36
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.000	-1.033	0	0	GAS (Tol-C12)	59389	2
C8	----				DIESEL (C12-C24)	136639	6
C10	2.861	0.003	1070	391	M.OIL (C24-C38)	1262007	104
C12	3.472	0.004	808	323	AK-102 (C10-C25)	192127	8
C14	3.925	-0.002	408	197	AK-103 (C25-C36)	1074099	120
C16	4.325	0.003	148	52	OR.DIES (C10-C28)	467661	22
C18	4.673	-0.002	50	17	OR.MOIL (C28-C40)	1110594	99
C20	5.000	0.003	534	84			
C22	5.298	0.002	2675	836	STODDARD (C8-C12)	59389	2
C24	5.605	0.002	5233	917			
C25	5.764	0.000	6238	1108			
C26	5.924	-0.002	7918	3299			
C28	6.245	0.001	9206	1987			
C32	6.858	0.002	12172	4066			
C34	7.140	-0.001	12960	3267	CREOSOT (C8-C22)	118096	18
Filter Peak	----						
C36	7.413	-0.001	11888	4717	BUNKERC (C10-C38)	1435110	166
o-terph	4.766	0.004	653	656	JET-A (C10-C18)	58172	4
Triacon Surr	6.558	-0.001	177130	133653	IT.MOIL (C24-C40)	1538805	72

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

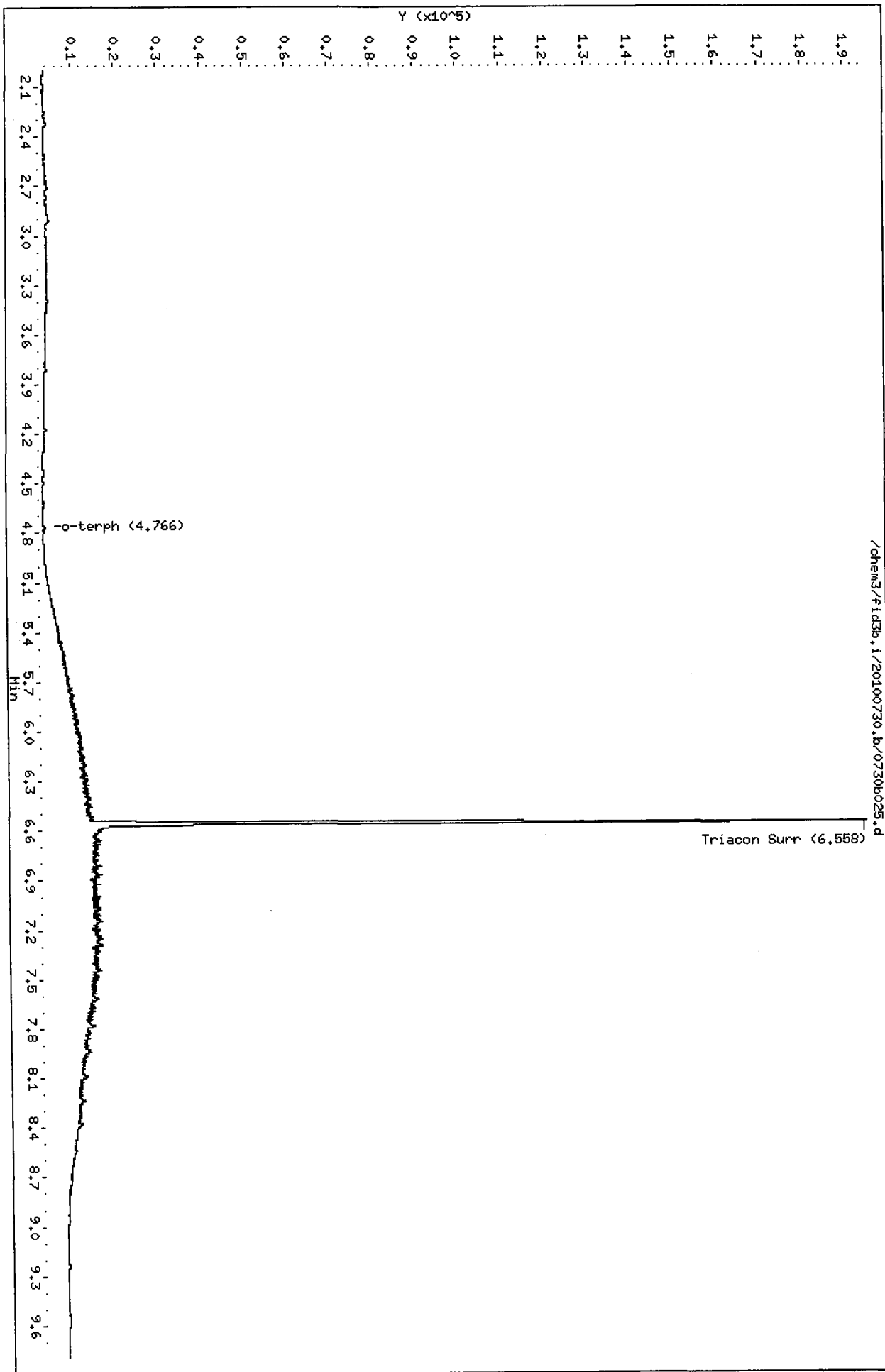
Surrogate	Area	Amount	%Rec
o-Terphenyl	656	0.0	0.1
Triacontane	133653	8.0	17.8

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst MS Date 8/3/10



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b026.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: MOIL 250
Client ID:
Injection: 30-JUL-2010 22:55
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.000	-1.033	0	0	GAS (Tol-C12)	54421	2
C8	----				DIESEL (C12-C24)	322420	15
C10	2.860	0.002	1106	911	M.OIL (C24-C38)	2941763	243
C12	3.466	-0.001	692	284	AK-102 (C10-C25)	405267	17
C14	3.923	-0.003	393	183	AK-103 (C25-C36)	2523700	283
C16	4.322	0.001	138	66	OR.DIES (C10-C28)	1063179	50
C18	4.673	-0.002	150	79	OR.MOIL (C28-C40)	2531012	224
C20	4.999	0.002	1661	707			
C22	5.293	-0.003	6646	2620	STODDARD (C8-C12)	54421	2
C24	5.603	0.000	12926	3044			
C25	5.760	-0.003	15791	3992			
C26	5.923	-0.002	18737	5063			
C28	6.240	-0.004	22766	17103			
C32	6.855	0.000	29395	10185			
C34	7.138	-0.003	29817	13225	CREOSOT (C8-C22)	176037	28
Filter Peak	----						
C36	7.411	-0.002	26300	7168	BUNKERC (C10-C38)	3299187	382
o-terph	4.763	0.002	758	732	JET-A (C10-C18)	56598	4
Triacon Surr	6.557	-0.002	441016	356482	IT.MOIL (C24-C40)	3593249	167

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	732	0.0	0.1
Triacontane	356482	21.3	47.4

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst AM Date 8/2/10

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b027.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: MOIL 500
Client ID:
Injection: 30-JUL-2010 23:14
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.000	-1.033	0	0	GAS (Tol-C12)	61429	2
C8	----				DIESEL (C12-C24)	661397	31
C10	2.856	-0.002	1273	310	M.OIL (C24-C38)	5897444	488
C12	3.467	-0.001	772	289	AK-102 (C10-C25)	796757	33
C14	3.922	-0.005	525	176	AK-103 (C25-C36)	5098876	571
C16	4.319	-0.002	278	113	OR.DIES (C10-C28)	2129868	101
C18	4.674	-0.001	552	196	OR.MOIL (C28-C40)	5025371	446
C20	4.998	0.000	3647	716			
C22	5.292	-0.004	14044	4392	STODDARD (C8-C12)	61429	2
C24	5.604	0.000	27326	15789			
C25	5.766	0.002	33190	10855			
C26	5.924	-0.002	38046	12688			
C28	6.245	0.000	48533	19176			
C32	6.858	0.002	63236	21003			
C34	7.139	-0.002	59785	13961	CREOSOT (C8-C22)	311324	49
Filter Peak	----						
C36	7.414	0.000	57110	39334	BUNKERC (C10-C38)	6597535	763
o-terph	4.762	0.000	1198	1526	JET-A (C10-C18)	73818	5
Triacon Surr	6.561	0.001	859319	761480	IT.MOIL (C24-C40)	7216629	336

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

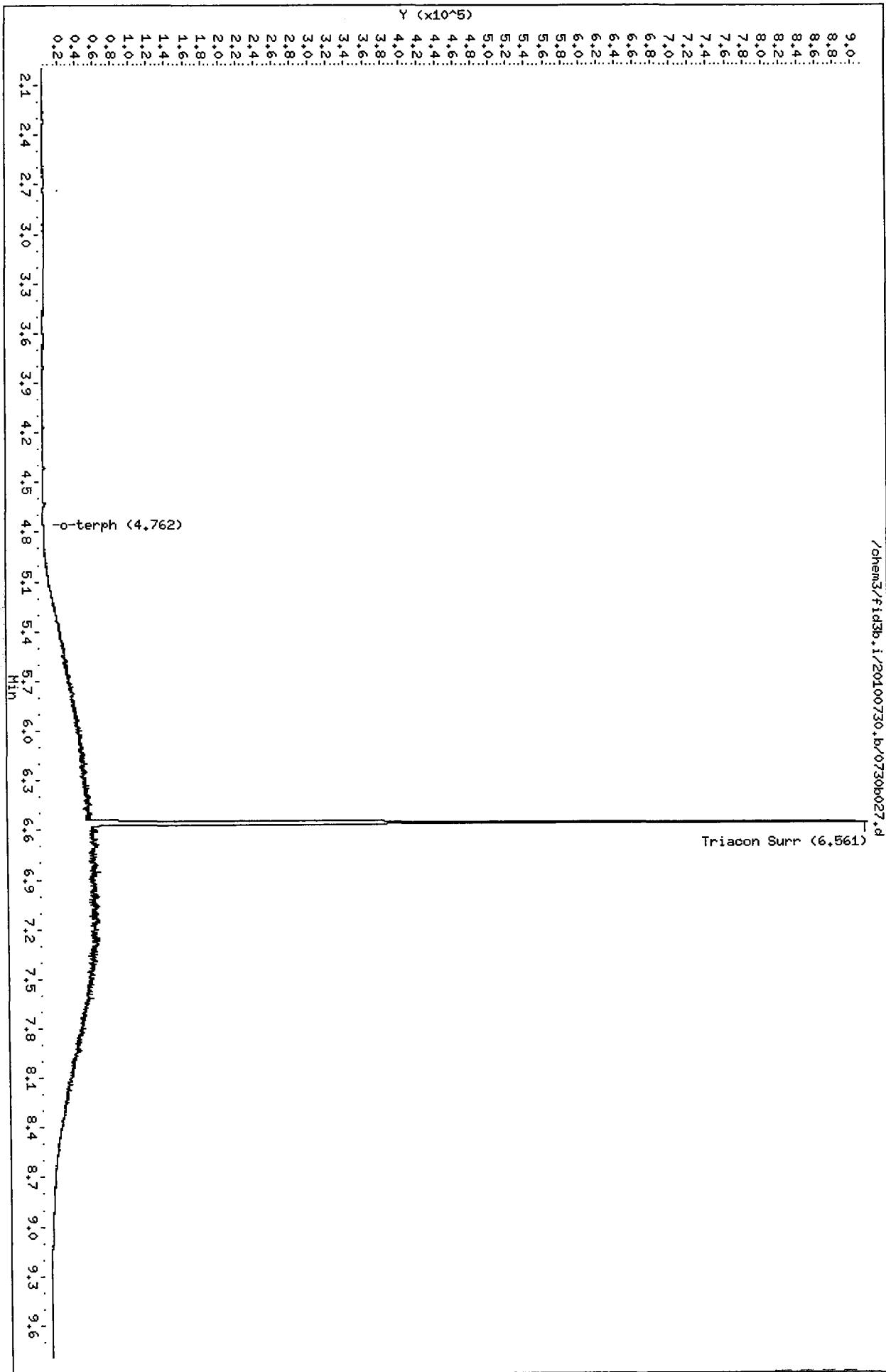
Surrogate	Area	Amount	%Rec
o-Terphenyl	1526	0.1	0.2
Triacontane	761480	45.5	101.2

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
- ③ Baseline Correction
4. Totals Calculation
5. Other

Analyst JMS Date 8/3/10



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b028.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: MOIL 1000
Client ID:
Injection: 30-JUL-2010 23:32
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.000	-1.033	0	0	GAS (Tol-C12)	72637	3
C8	----				DIESEL (C12-C24)	1386989	65
C10	2.858	0.001	1897	1836	M.OIL (C24-C38)	11886809	984
C12	3.470	0.002	1037	577	AK-102 (C10-C25)	1637290	68
C14	3.925	-0.001	834	432	AK-103 (C25-C36)	10178714	1140
C16	4.322	0.001	584	148	OR.DIES (C10-C28)	4288810	203
C18	4.677	0.002	1434	588	OR.MOIL (C28-C40)	10179667	903
C20	5.000	0.003	8627	6697			
C22	5.298	0.003	30407	15588	STODDARD (C8-C12)	72637	3
C24	5.601	-0.002	56341	40257			
C25	5.767	0.003	70210	55090			
C26	5.924	-0.001	76118	32730			
C28	6.246	0.002	93898	37136			
C32	6.854	-0.002	121094	45621			
C34	7.141	0.000	119577	41572	CREOSOT (C8-C22)	609564	95
Filter Peak	----						
C36	7.409	-0.004	114138	61669	BUNKERC (C10-C38)	13321155	1541
o-terph	4.758	-0.003	2740	1977	JET-A (C10-C18)	111596	7
Triacon Surr	6.568	0.009	1661068	1573813	IT.MOIL (C24-C40)	14607944	680

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

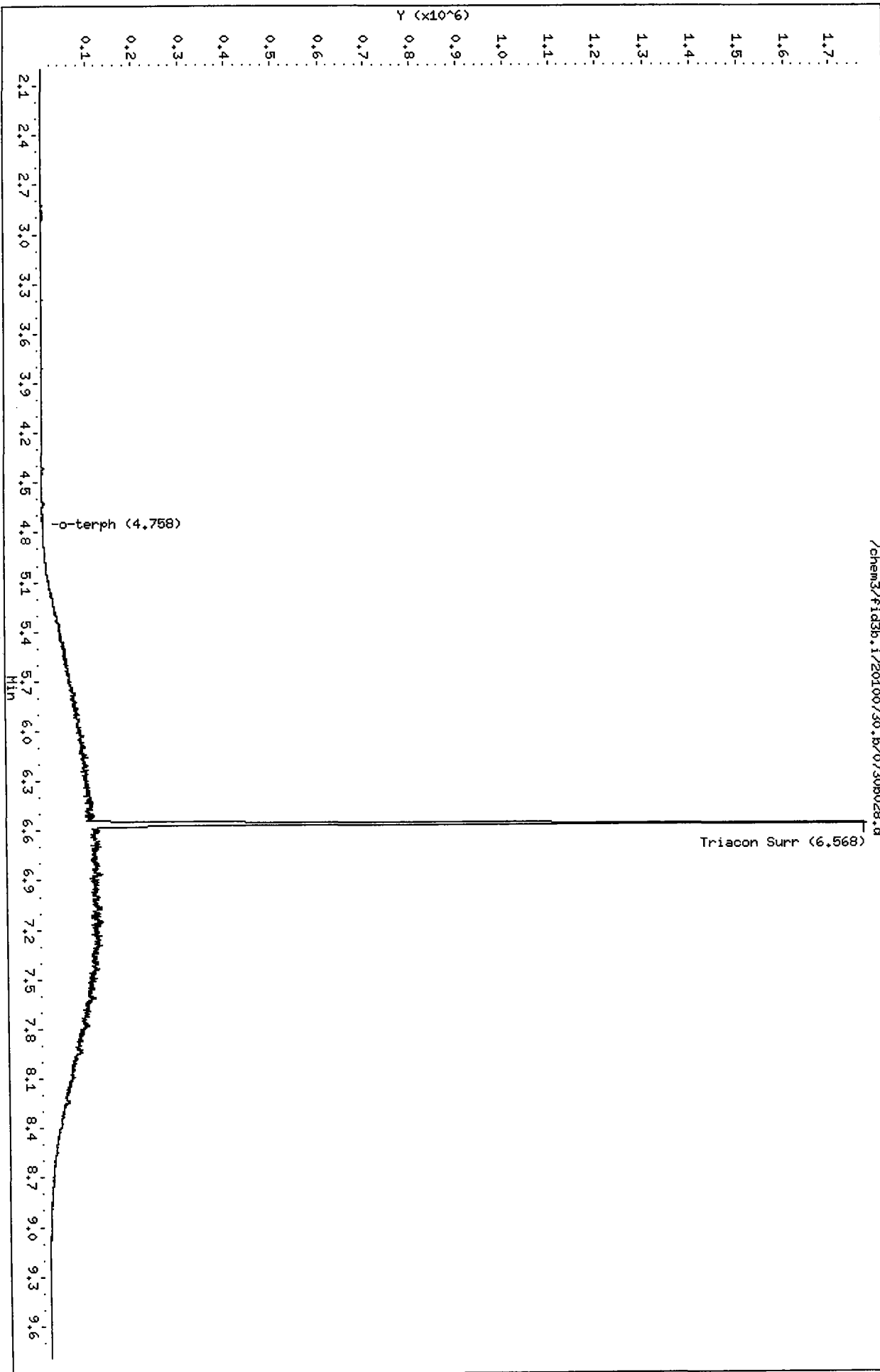
Surrogate	Area	Amount	%Rec
o-Terphenyl	1977	0.1	0.2
Triacontane	1573813	94.1	209.1

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst: MS Date: 8/3/10



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b030.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: MOIL 2500
Client ID:
Injection: 31-JUL-2010 00:10
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.000	-1.033	0	0	GAS (Tol-C12)	95636	3
C8	----				DIESEL (C12-C24)	3379394	158
C10	2.857	-0.001	3357	3375	M.OIL (C24-C38)	29202636	2417
C12	3.471	0.003	1596	1868	AK-102 (C10-C25)	3927075	163
C14	3.927	0.001	1514	356	AK-103 (C25-C36)	25147326	2815
C16	4.322	0.001	1563	1411	OR.DIES (C10-C28)	10612044	503
C18	4.676	0.001	3568	4270	OR.MOIL (C28-C40)	24702816	2191
C20	4.996	-0.001	22446	7349			
C22	5.295	-0.001	73882	30652	STODDARD (C8-C12)	95636	3
C24	5.605	0.002	133400	26133			
C25	5.762	-0.001	165074	51876			
C26	5.928	0.002	188516	86981			
C28	6.238	-0.006	233688	182539			
C32	6.857	0.001	290957	171974			
C34	7.138	-0.003	286943	126318	CREOSOT (C8-C22)	1390131	217
Filter Peak	----						
C36	7.411	-0.002	275697	173060	BUNKERC (C10-C38)	32647668	3777
o-terph	4.758	-0.004	6196	3899	JET-A (C10-C18)	200291	13
Triacon Surr	6.581	0.022	3417562	3785244	IT.MOIL (C24-C40)	35655072	1659

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	3899	0.2	0.4
Triacontane	3785244	226.3	502.9

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst MS Date 8/3/10

Date : 31-JUL-2010 00:10

Instrument: fid3b.i

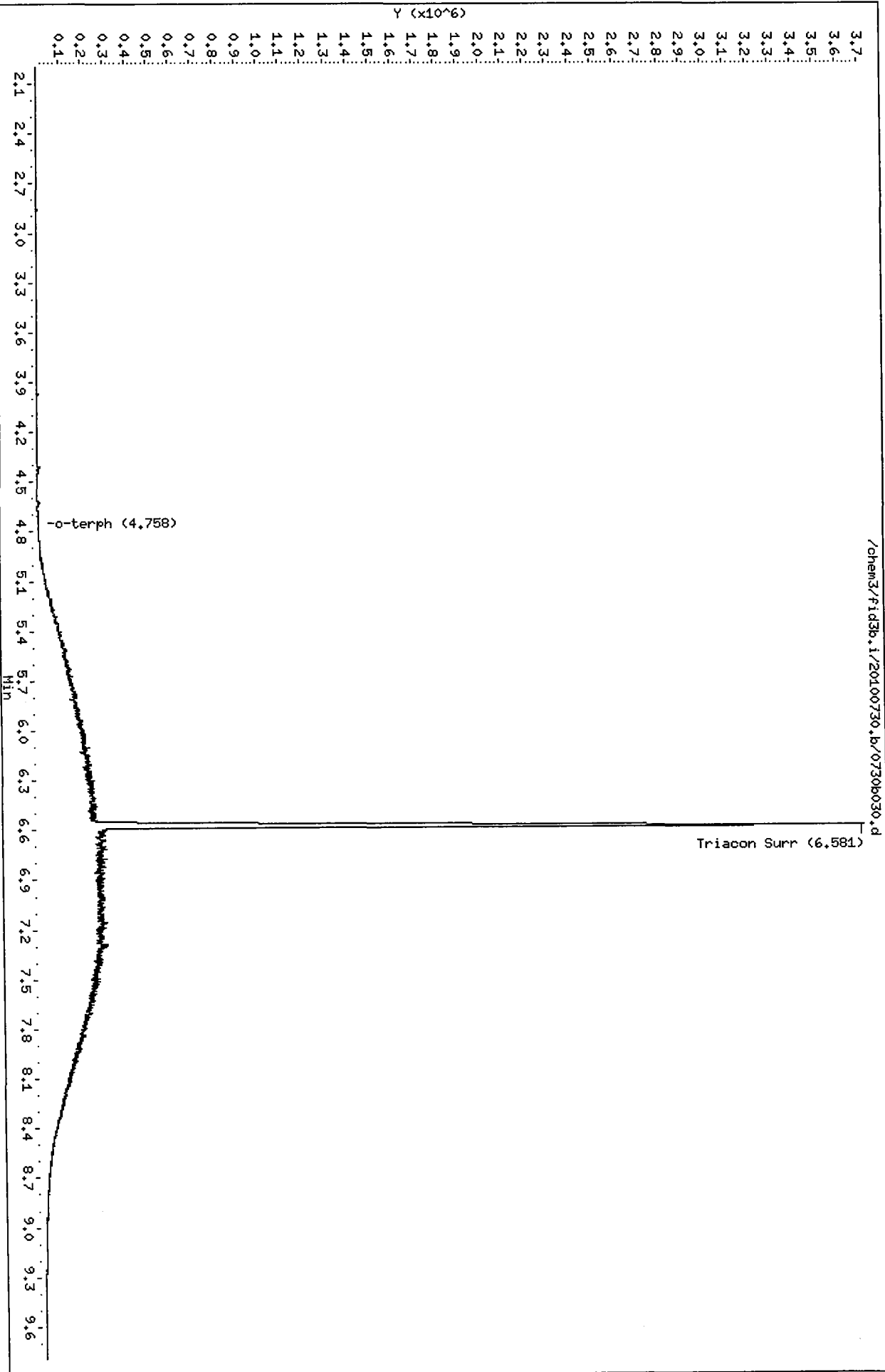
Client ID:

Operator: HS

Sample Info: M01L 2500

Column phase: RTX-1

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b032.d
Method: /chem3/fid3b.i/20100803.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: MOIL 5000
Client ID:
Injection: 31-JUL-2010 00:47
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.000	-1.031	0	0	GAS (Tol-C12)	136516	5
C8	----				DIESEL (C12-C24)	7391085	345
C10	2.860	0.002	6390	7826	M.OIL (C24-C38)	63692911	5272
C12	3.468	0.001	3090	3308	AK-102 (C10-C25)	8576883	356
C14	3.927	0.001	2902	3119	AK-103 (C25-C36)	55274954	6188
C16	4.322	0.002	3356	5579	OR.DIES (C10-C28)	23215807	1101
C18	4.674	0.000	7922	8796	OR.MOIL (C28-C40)	53459904	4742
C20	4.996	-0.002	47935	10434			
C22	5.294	-0.001	159044	57913	STODDARD (C8-C12)	136516	5
C24	5.606	0.003	294534	135002			
C25	5.760	-0.004	341829	114396			
C26	5.924	0.001	403139	246862			
C28	6.245	0.001	500056	192227			
C32	6.855	0.000	584755	116103			
C34	7.144	0.002	614284	191733	CREOSOT (C8-C22)	2916422	456
Filter Peak	----						
C36	7.412	-0.002	608306	208570	BUNKERC (C10-C38)	71180905	8235
o-terph	4.757	-0.005	12189	7421	JET-A (C10-C18)	369371	23
Triacon Surr	6.604	0.043	5116443	8293814	IT.MOIL (C24-C40)	77481531	3606

Range Times: NW Diesel(3.517 - 5.653) NW Gas(0.981 - 3.517) NW M.Oil(5.653 - 7.721)
AK102(2.808 - 5.714) AK103(5.714 - 7.464) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	7421	0.4	0.8
Triacontane	8293814	495.9	1101.9

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst *[Signature]* Date *[Signature]*

Date : 31-JUL-2010 00:47

Instrument: fid3b.i

Client ID:

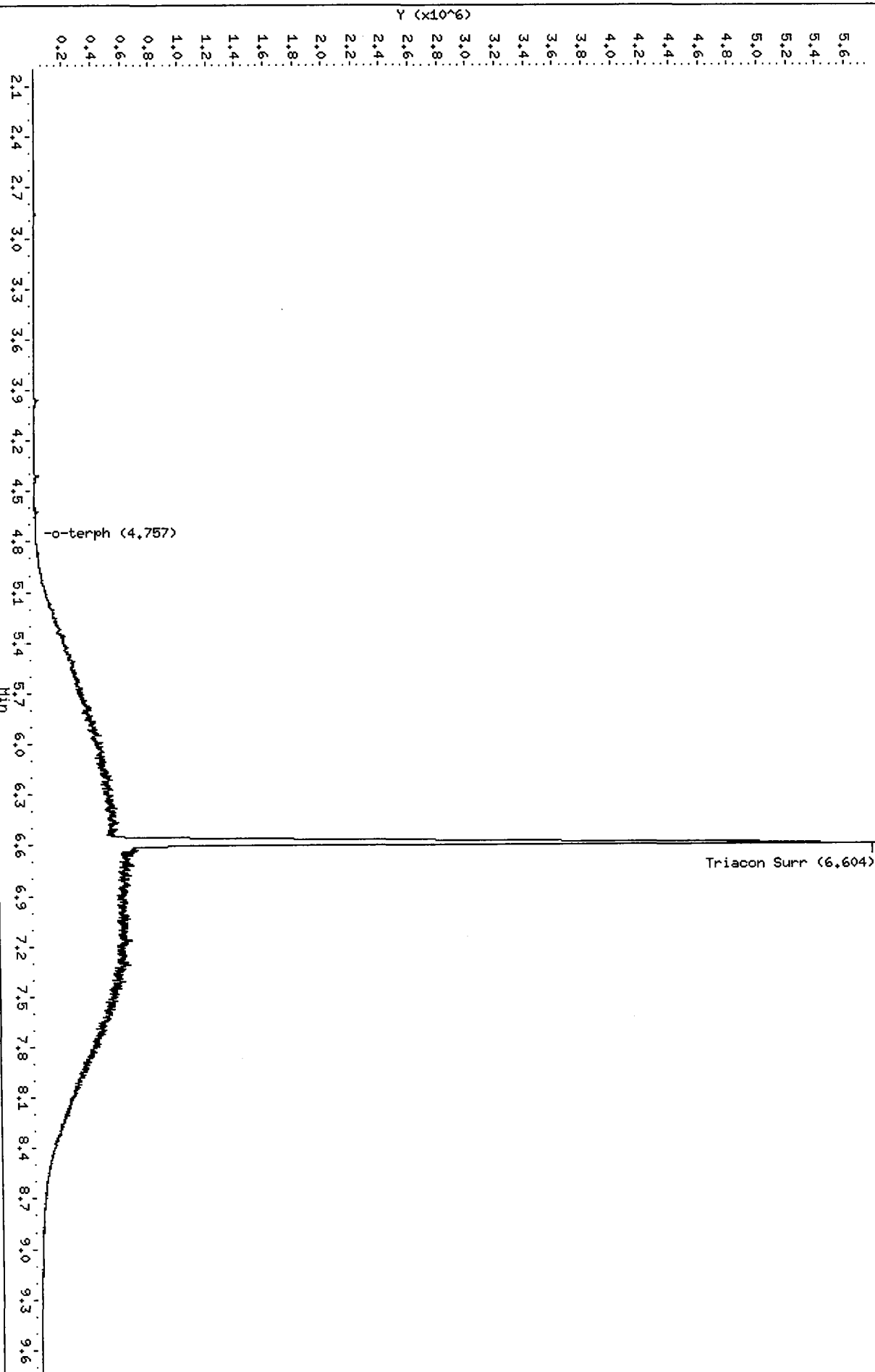
Operator: NS

Sample Info: MOIL 5000

Column phase: RTX-1

Column diameter: 2.00

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RG60:00919

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730b034.d
Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/03/2010
Macro: FID:3B073010

ARI ID: MOIL ICV
Client ID:
Injection: 31-JUL-2010 01:25
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	69710	3
C8	----				DIESEL (C12-C24)	654549	31
C10	2.860	0.002	1401	800	M.OIL (C24-C38)	5780310	478
C12	3.466	-0.002	844	283	AK-102 (C10-C25)	785151	33
C14	3.928	0.001	611	154	AK-103 (C25-C36)	4978956	557
C16	4.325	0.004	330	255	OR.DIES (C10-C28)	2137357	101
C18	4.676	0.001	610	174	OR.MOIL (C28-C40)	4899131	435
C20	4.999	0.002	3728	881			
C22	5.295	-0.001	14759	8671	STODDARD (C8-C12)	69710	3
C24	5.604	0.001	26635	20138			
C25	5.767	0.003	34354	20126			
C26	5.925	-0.001	38360	10923			
C28	6.242	-0.003	45237	26594			
C32	6.858	0.003	58973	16709			
C34	7.142	0.000	60409	28174	CREOSOT (C8-C22)	326198	51
Filter Peak	----						
C36	7.410	-0.003	54496	40370	BUNKERC (C10-C38)	6478679	750
o-terph	4.761	-0.001	1177	942	JET-A (C10-C18)	83224	5
Triacon Surr	6.561	0.002	862303	736311	IT.MOIL (C24-C40)	7074431	329

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	942	0.0	0.1
Triacontane	736311	44.0	97.8

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst MS Date 8/3/10

Date: 31-JUL-2010 01:25

Client ID:

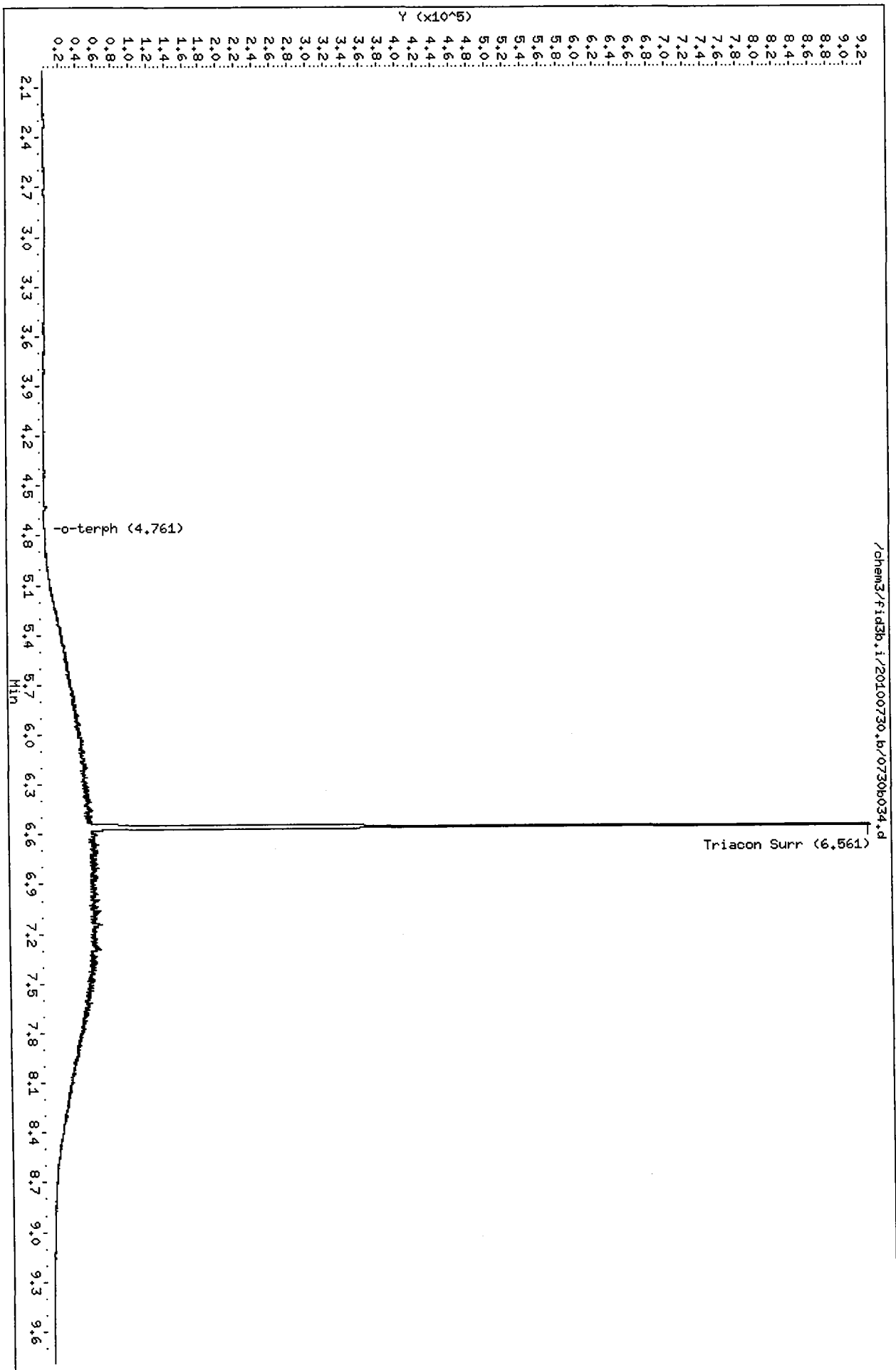
Sample Info: MUIL ICV

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b018.d ARI ID: DIESEL 50
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 30-JUL-2010 20:23
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	203100	7
C8	----				DIESEL (C12-C24)	1073736	50
C10	2.859	0.001	5638	4849	M.OIL (C24-C38)	63488	5
C12	3.468	0.001	8865	7583	AK-102 (C10-C25)	1226764	51
C14	3.925	-0.001	21926	23612	AK-103 (C25-C36)	40579	5
C16	4.321	0.000	39235	39802	OR.DIES (C10-C28)	1237681	59
C18	4.674	-0.001	39296	35683	OR.MOIL (C28-C40)	78683	7
C20	4.998	0.000	18246	22375			
C22	5.299	0.003	5339	5505	STODDARD (C8-C12)	203100	7
C24	5.597	-0.006	1196	621			
C25	5.760	-0.003	625	310			
C26	5.922	-0.003	296	159			
C28	6.242	-0.002	52	16			
C32	6.842	-0.013	172	67			
C34	7.141	0.000	373	160	CREOSOT (C8-C22)	1243658	194
Filter Peak	----						
C36	7.411	-0.002	735	302	BUNKERC (C10-C38)	1286685	149
o-terph	4.759	-0.003	385477	213275	JET-A (C10-C18)	945094	60
Triacon Surr	6.558	-0.001	38	9	IT.MOIL (C24-C40)	93176	4

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	213275	10.7	23.8
Triacotane	9	0.0	0.0

ms 8/3/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Date : 30-JUL-2010 20:23

Client ID:

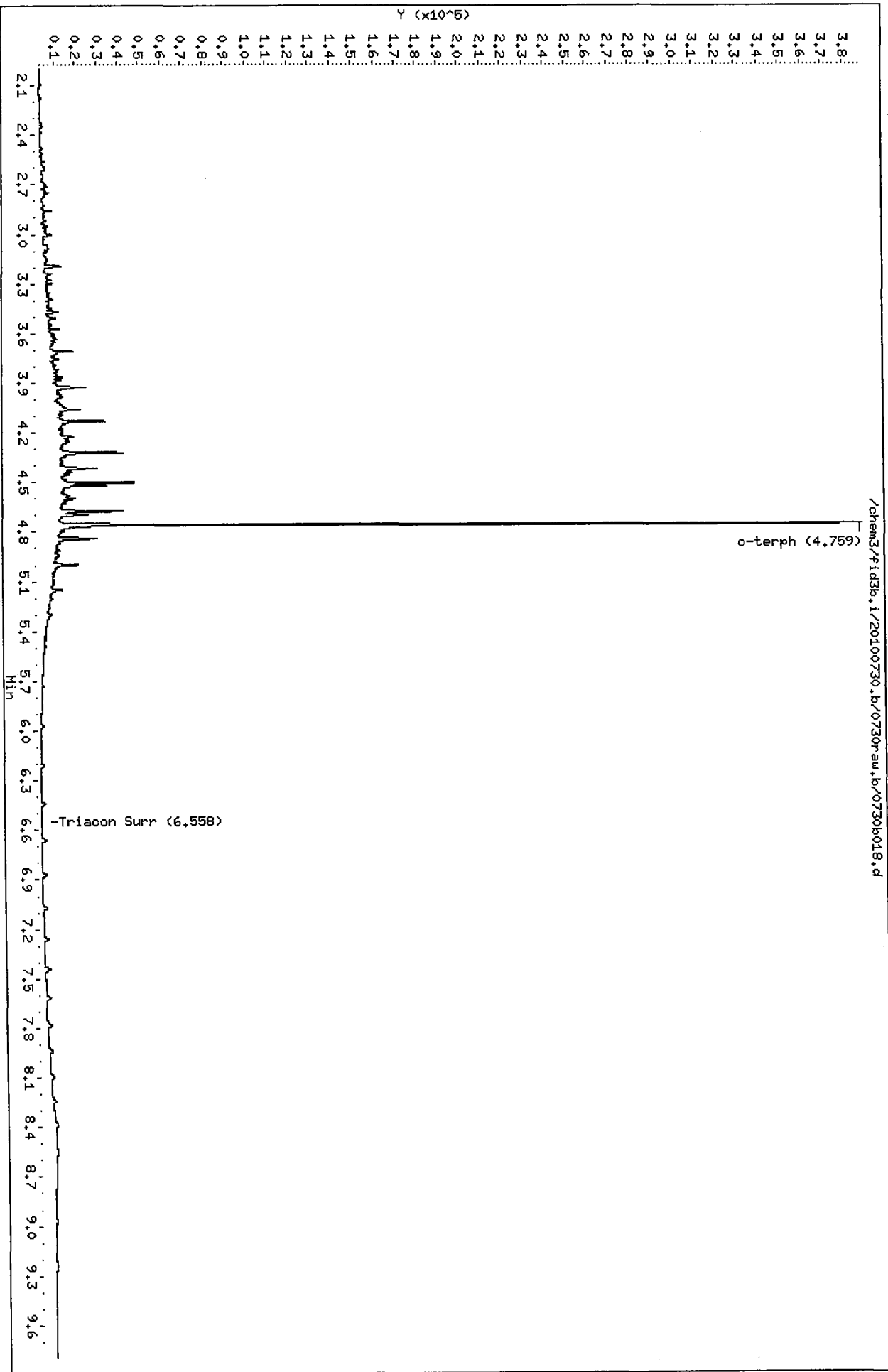
Sample Info: DIESEL 50

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b019.d ARI ID: DIESEL 100
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 30-JUL-2010 20:42
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	357151	13
C8	----				DIESEL (C12-C24)	2033528	95
C10	2.858	0.000	10639	8623	M.OIL (C24-C38)	49930	4
C12	3.467	-0.001	21033	17918	AK-102 (C10-C25)	2312396	96
C14	3.924	-0.003	50684	48589	AK-103 (C25-C36)	30461	3
C16	4.320	-0.001	89321	73174	OR.DIES (C10-C28)	2327282	110
C18	4.674	-0.001	82793	68218	OR.MOIL (C28-C40)	55412	5
C20	4.997	-0.001	44397	37760			
C22	5.295	-0.001	15167	18309	STODDARD (C8-C12)	357151	13
C24	5.601	-0.003	2183	553			
C25	5.767	0.003	1066	252			
C26	5.926	0.000	515	99			
C28	6.242	-0.003	97	42			
C32	6.845	-0.010	124	24			
C34	7.140	-0.002	297	98	CREOSOT (C8-C22)	2327121	364
Filter Peak	----						
C36	7.414	0.000	654	220	BUNKERC (C10-C38)	2357151	273
o-terph	4.761	-0.001	752336	432246	JET-A (C10-C18)	1787874	113
Triacon Surr	6.562	0.003	35	12	IT.MOIL (C24-C40)	75484	4

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	432246	21.7	48.2
Triacontane	12	0.0	0.0

ms 8/3/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Date : 30-JUL-2010 20:42

Client ID:

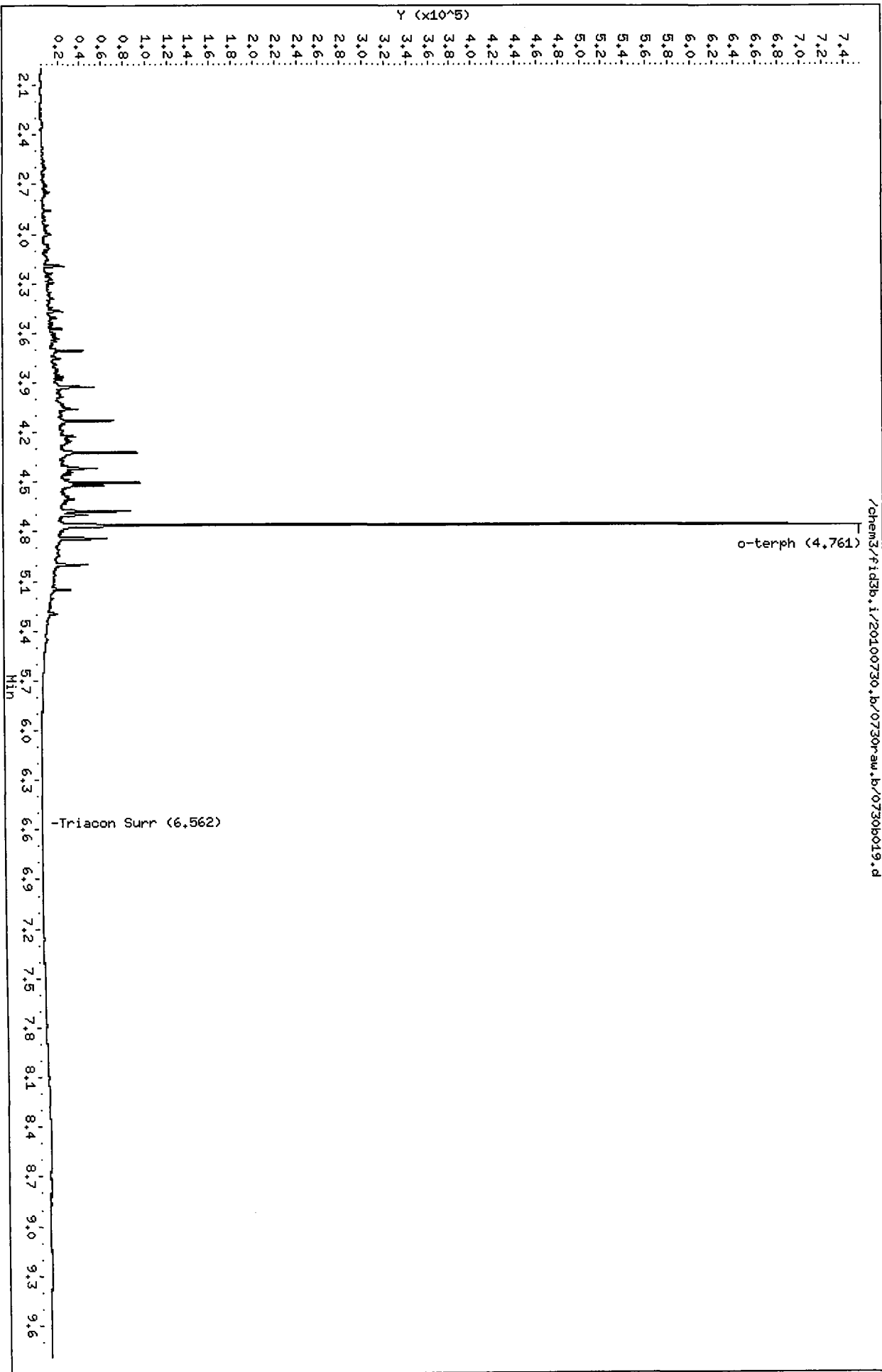
Sample Info: DIESEL 100

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b020.d ARI ID: DIESEL 250
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 30-JUL-2010 21:01
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	832540	30
C8	----				DIESEL (C12-C24)	5381486	252
C10	2.857	-0.001	26815	24142	M.OIL (C24-C38)	83893	7
C12	3.467	-0.001	68591	49107	AK-102 (C10-C25)	6048334	251
C14	3.925	-0.002	140104	127189	AK-103 (C25-C36)	56030	6
C16	4.321	0.000	232770	207768	OR.DIESEL (C10-C28)	6088325	289
C18	4.675	0.000	208305	168485	OR.MOIL (C28-C40)	57280	5
C20	4.996	-0.001	126032	107297			
C22	5.293	-0.003	50635	46451	STODDARD (C8-C12)	832540	30
C24	5.604	0.001	9772	11489			
C25	5.766	0.003	3129	1191			
C26	5.921	-0.004	1314	959			
C28	6.242	-0.002	220	92			
C32	6.846	-0.010	82	35			
C34	7.139	-0.002	240	125	CREOSOT (C8-C22)	6035967	944
Filter Peak	----						
C36	7.415	0.002	533	105	BUNKERC (C10-C38)	6119266	708
o-terph	4.763	0.001	1673183	1006880	JET-A (C10-C18)	4563495	288
Triacon Surr	6.553	-0.006	23	12	IT.MOIL (C24-C40)	110245	5

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1006880	50.5	112.2
Triacontane	12	0.0	0.0

MS 8/3/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Date: 30-JUL-2010 21:01

Client ID:

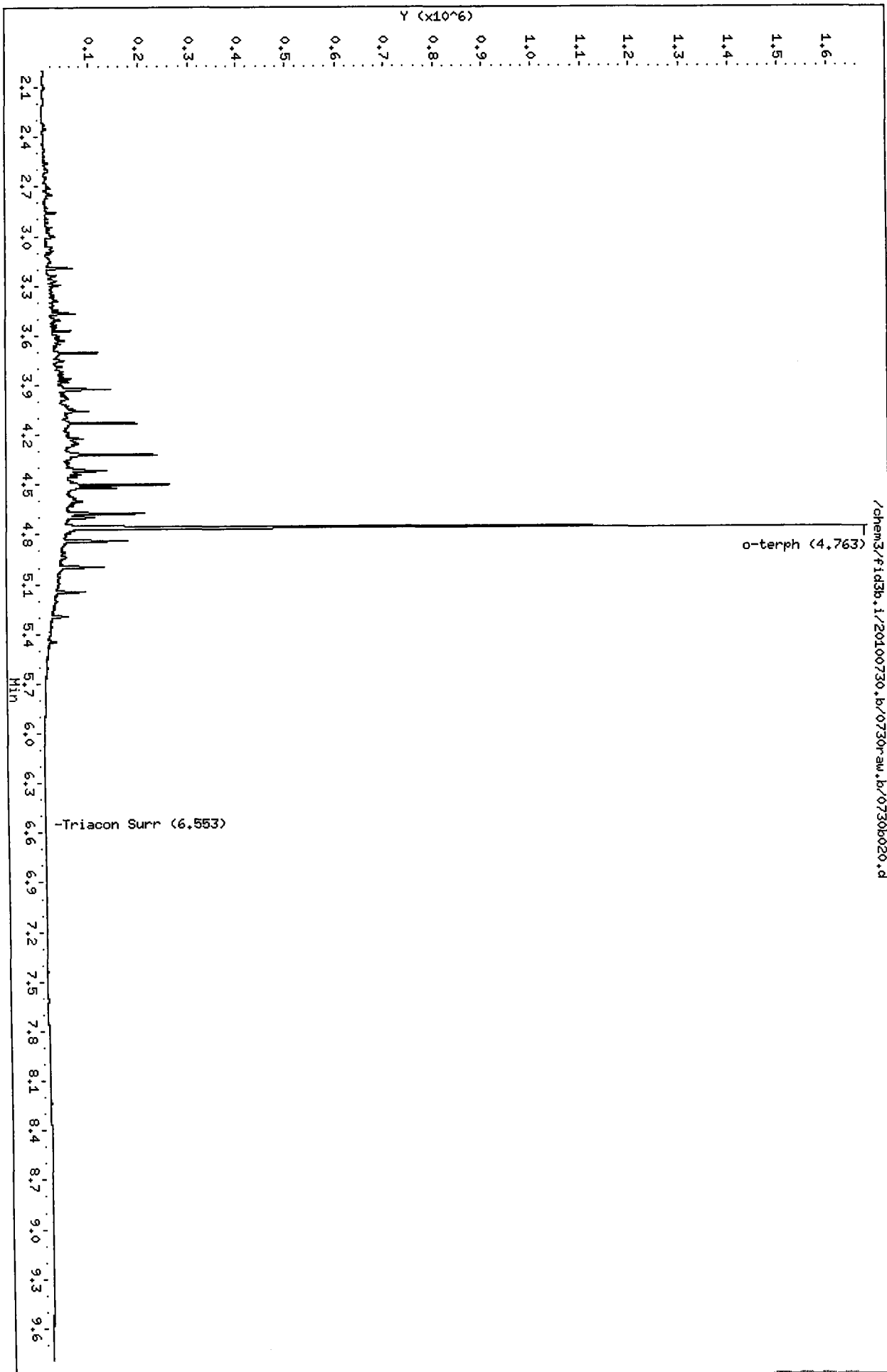
Sample Info: DIESEL 250

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b021.d ARI ID: DIESEL 500
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 30-JUL-2010 21:20
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (To1-C12)	1605957	59
C8	----				DIESEL (C12-C24)	10474813	490
C10	2.859	0.001	57423	40767	M.OIL (C24-C38)	193569	16
C12	3.467	-0.001	150148	107232	AK-102 (C10-C25)	11772614	488
C14	3.925	-0.002	281705	192683	AK-103 (C25-C36)	138842	16
C16	4.321	0.000	459275	397727	OR.DIES (C10-C28)	11850728	562
C18	4.676	0.001	438078	346941	OR.MOIL (C28-C40)	138643	12
C20	4.998	0.000	247680	229025			
C22	5.294	-0.002	107189	91506	STODDARD (C8-C12)	1605957	58
C24	5.603	-0.001	25044	36788			
C25	5.764	0.000	8933	11255			
C26	5.928	0.002	2767	880			
C28	6.244	0.000	417	209			
C32	6.866	0.010	6270	6679			
C34	7.138	-0.003	199	114	CREOSOT (C8-C22)	11718131	1832
Filter Peak	----						
C36	7.404	-0.009	435	170	BUNKERC (C10-C38)	11939585	1381
o-terph	4.766	0.004	2949322	2085108	JET-A (C10-C18)	8975857	566
Triacon Surr	6.562	0.003	37	8	IT.MOIL (C24-C40)	243363	11

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	2085108	104.6	232.4
Triacontane	8	0.0	0.0

ms 8/376

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Date : 30-JUL-2010 21:20

Instrument: fid3b.i

Client ID:

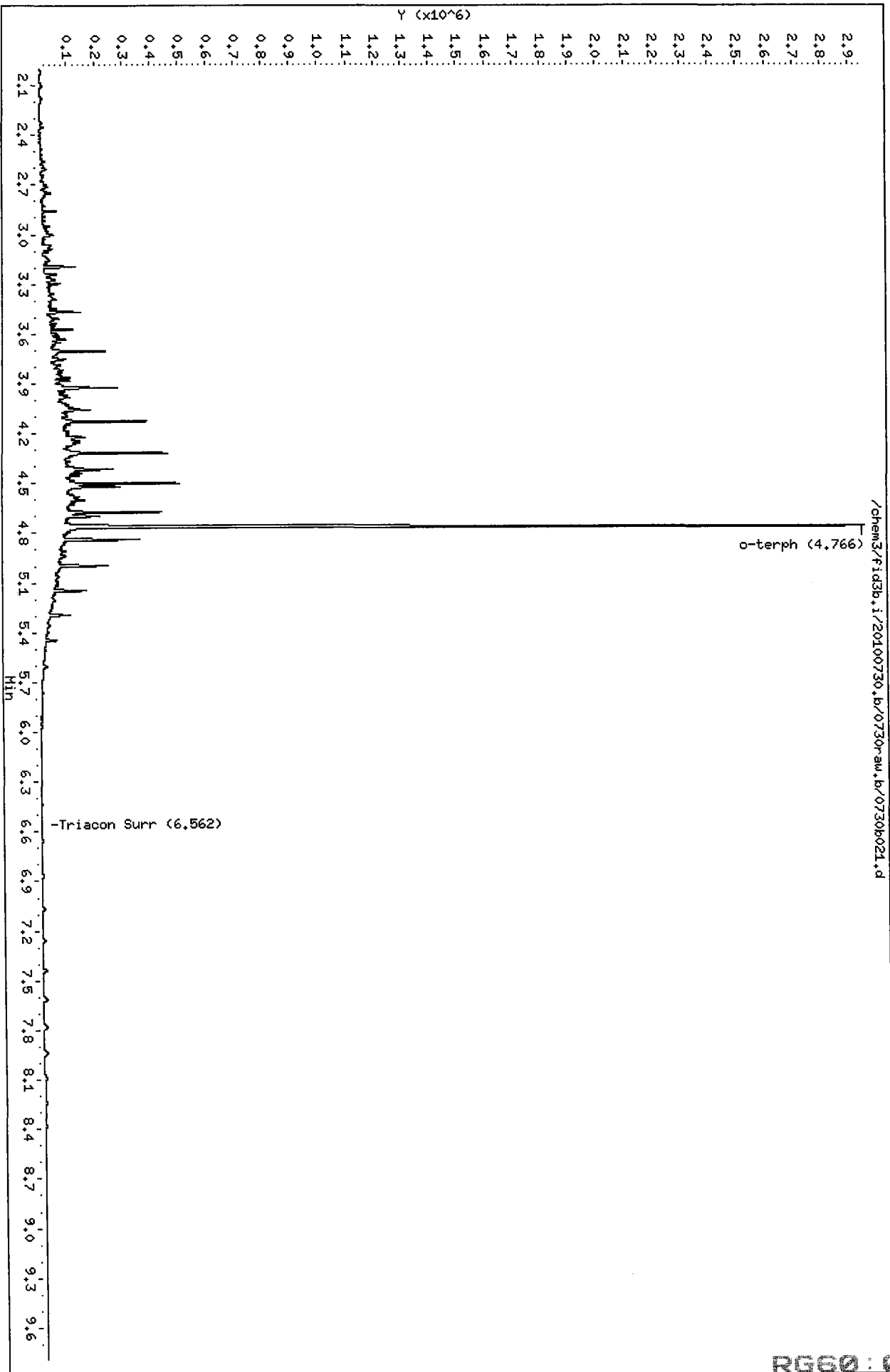
Operator: HS

Sample Info: DIESEL 500

Column diameter: 2.00

Column phase: RTX-1

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b022.d ARI ID: DIESEL 1000
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 30-JUL-2010 21:39
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	3183656	116
C8	----				DIESEL (C12-C24)	20461552	956
C10	2.859	0.001	116245	79992	M.OIL (C24-C38)	246197	20
C12	3.468	0.000	303568	209857	AK-102 (C10-C25)	23076848	957
C14	3.926	-0.001	587854	482277	AK-103 (C25-C36)	175618	20
C16	4.323	0.002	905598	796869	OR.DIES (C10-C28)	23235650	1102
C18	4.678	0.002	807496	638826	OR.MOIL (C28-C40)	50889	5
C20	4.998	0.000	504752	389992			
C22	5.295	-0.001	227321	199991	STODDARD (C8-C12)	3183656	115
C24	5.602	-0.001	59793	78521			
C25	5.763	-0.001	23276	31928			
C26	5.926	0.000	7146	5485			
C28	6.246	0.002	980	756			
C32	6.846	-0.010	31	8			
C34	7.142	0.001	155	78	CREOSOT (C8-C22)	22952325	3589
Filter Peak	----						
C36	7.412	-0.001	462	183	BUNKERC (C10-C38)	23265390	2692
o-terph	4.774	0.012	5344672	4166432	JET-A (C10-C18)	17422692	1099
Triacon Surr	6.558	-0.001	143	74	IT.MOIL (C24-C40)	267420	12

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	4166432	209.0	464.5
Triacontane	74	0.0	0.0

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Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100730.b/0730r-aw.b/0730b022.d

Date: 30-JUL-2010 21:39

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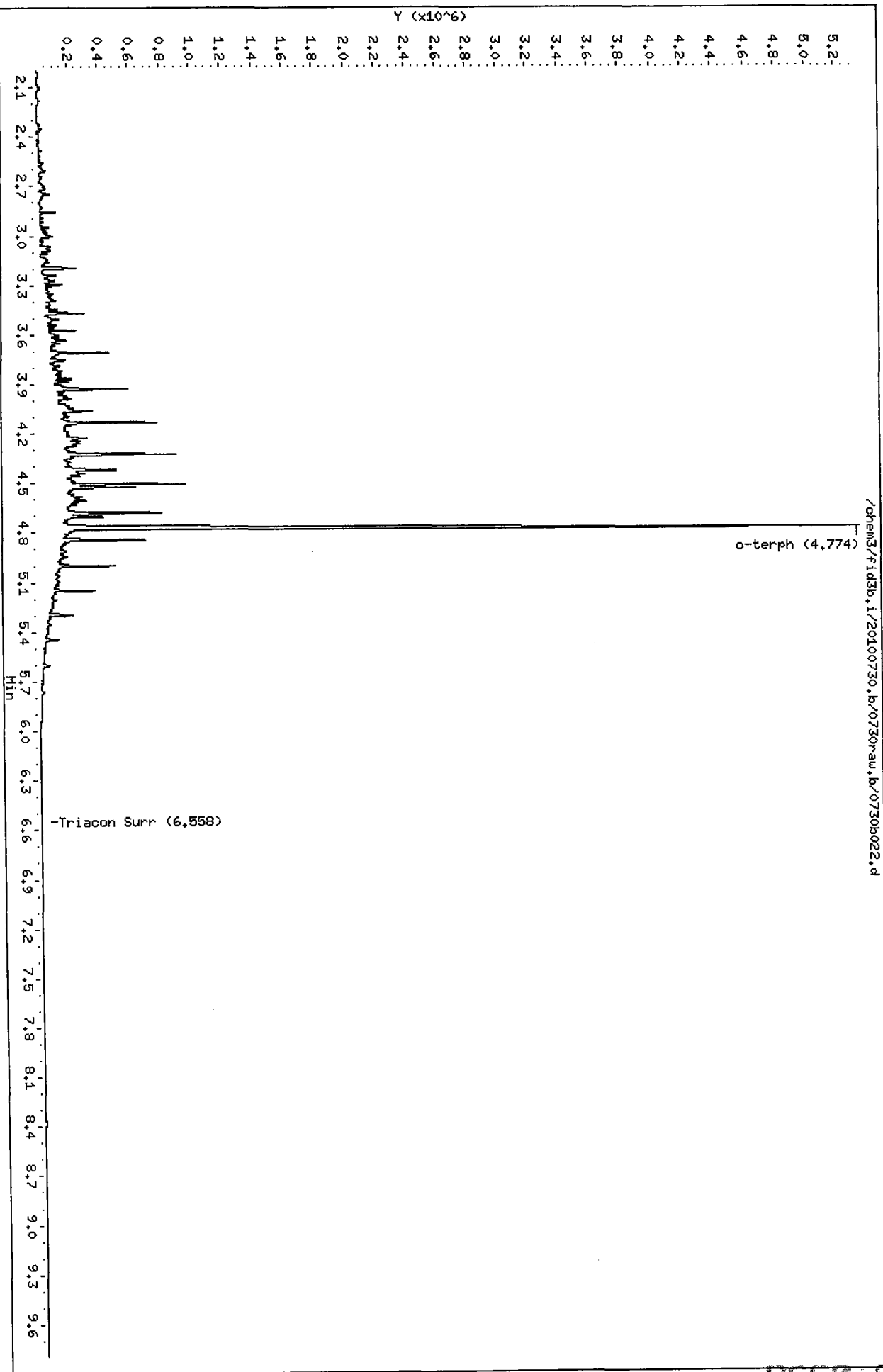
Sample Info: DIESEL 1000

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b023.d ARI ID: DIESEL 2500
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 30-JUL-2010 21:58
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	7659234	280
C8	----				DIESEL (C12-C24)	50026991	2338
C10	2.863	0.005	285421	198918	M.OIL (C24-C38)	572344	47
C12	3.470	0.002	694665	522755	AK-102 (C10-C25)	56300148	2336
C14	3.929	0.002	1273547	1199224	AK-103 (C25-C36)	425535	48
C16	4.326	0.004	2112542	1828650	OR.DIES (C10-C28)	56698963	2688
C18	4.683	0.007	1755535	1805295	OR.MOIL (C28-C40)	53128	5
C20	5.002	0.005	1242586	994726			
C22	5.298	0.002	554784	489931	STODDARD (C8-C12)	7659234	277
C24	5.604	0.001	157104	182807			
C25	5.764	0.000	68790	96490			
C26	5.924	-0.001	24943	35913			
C28	6.241	-0.003	2845	707			
C32	6.847	-0.009	103	17			
C34	7.140	-0.001	80	25	CREOSOT (C8-C22)	55887097	8738
Filter Peak	----						
C36	7.414	0.001	258	70	BUNKERC (C10-C38)	56733764	6564
o-terph	4.787	0.025	9374342	10447481	JET-A (C10-C18)	42325036	2671
Triacon Surr	6.558	-0.002	576	210	IT.MOIL (C24-C40)	590881	27

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	10447481	524.1	1164.7
Triacotane	210	0.0	0.0

M 8/3/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Date: 30-JUL-2010 21:58

Client ID:

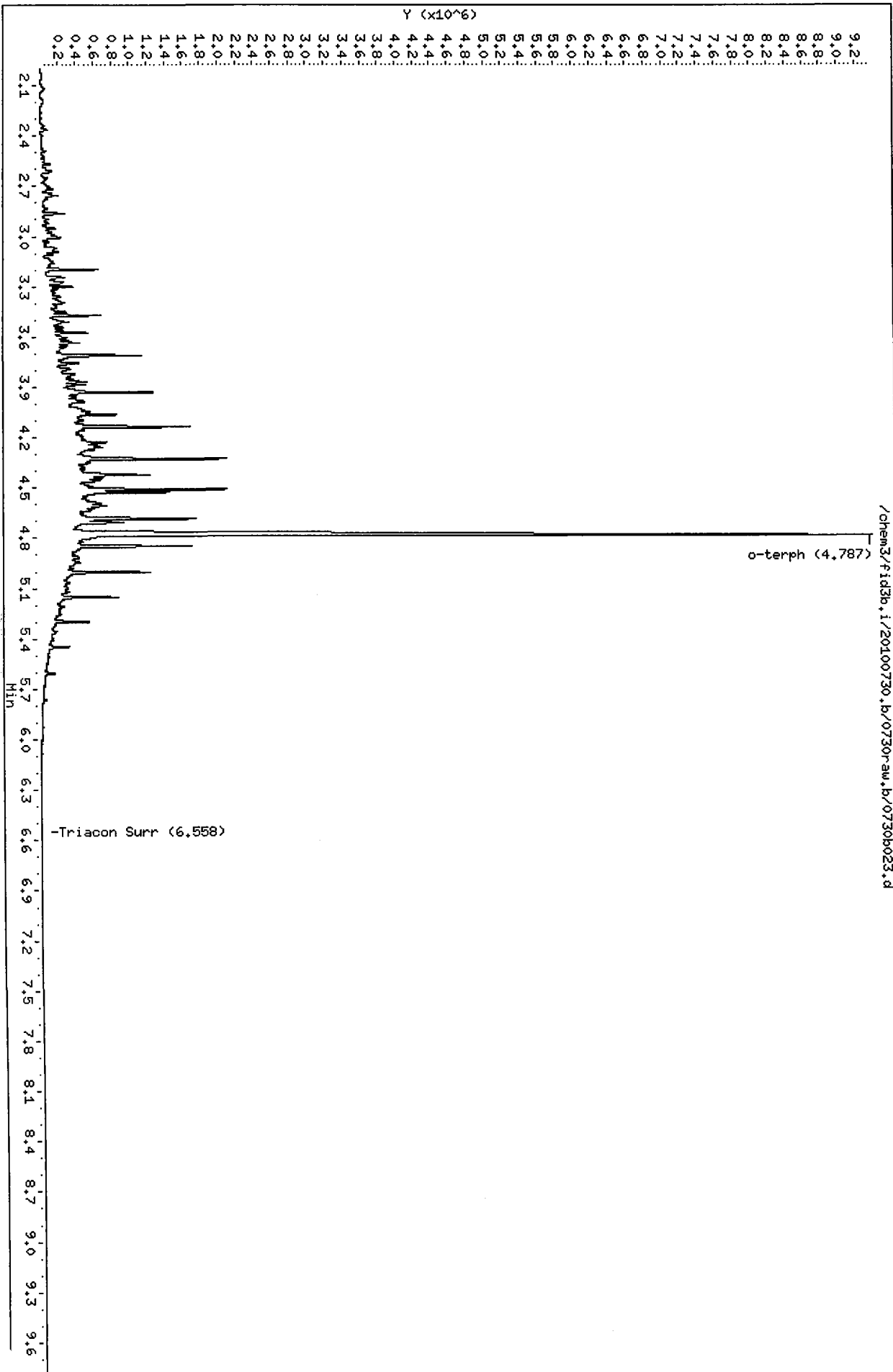
Sample Info: DIESEL 2500

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b024.d ARI ID: DIESEL ICV
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 30-JUL-2010 22:17
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	1033627	38
C8	----				DIESEL (C12-C24)	6390782	299
C10	2.859	0.001	35248	24957	M.OIL (C24-C38)	127459	11
C12	3.467	0.000	86410	59948	AK-102 (C10-C25)	7226358	300
C14	3.926	-0.001	173324	148864	AK-103 (C25-C36)	93021	10
C16	4.320	-0.001	296816	249967	OR.DIES (C10-C28)	7272611	345
C18	4.676	0.000	273795	228555	OR.MOIL (C28-C40)	99093	9
C20	4.997	-0.001	155638	143379			
C22	5.294	-0.002	60394	56049	STODDARD (C8-C12)	1033627	37
C24	5.605	0.002	13282	16336			
C25	5.765	0.001	4054	633			
C26	5.927	0.001	1441	1201			
C28	6.248	0.004	261	48			
C32	6.870	0.014	5168	4822			
C34	7.140	-0.001	246	62	CREOSOT (C8-C22)	7213004	1128
Filter Peak	----						
C36	7.410	-0.003	515	121	BUNKERC (C10-C38)	7336745	849
o-terph	4.764	0.002	2104321	1321409	JET-A (C10-C18)	5495826	347
Triacon Surr	6.562	0.003	18	7	IT.MOIL (C24-C40)	162424	8

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1321409	66.3	147.3
Triacontane	7	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

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Data File: /chem3/fid3b.i/20100730.b/0730raw.b/0730b024.d

Date: 30-JUL-2010 22:17

Client ID:

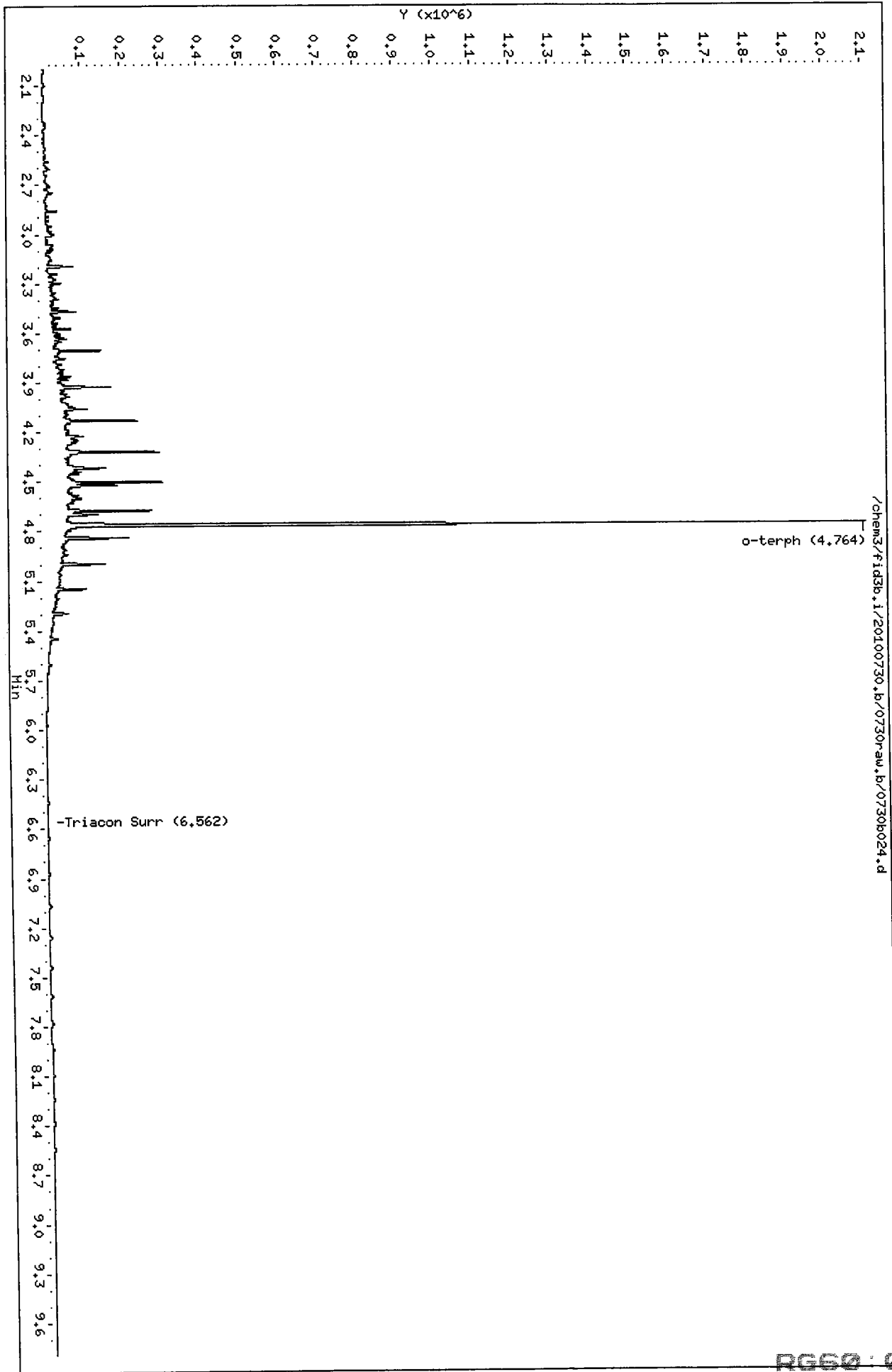
Sample Info: DIESEL ICV

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



15050000

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b025.d ARI ID: MOIL 100
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 30-JUL-2010 22:36
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

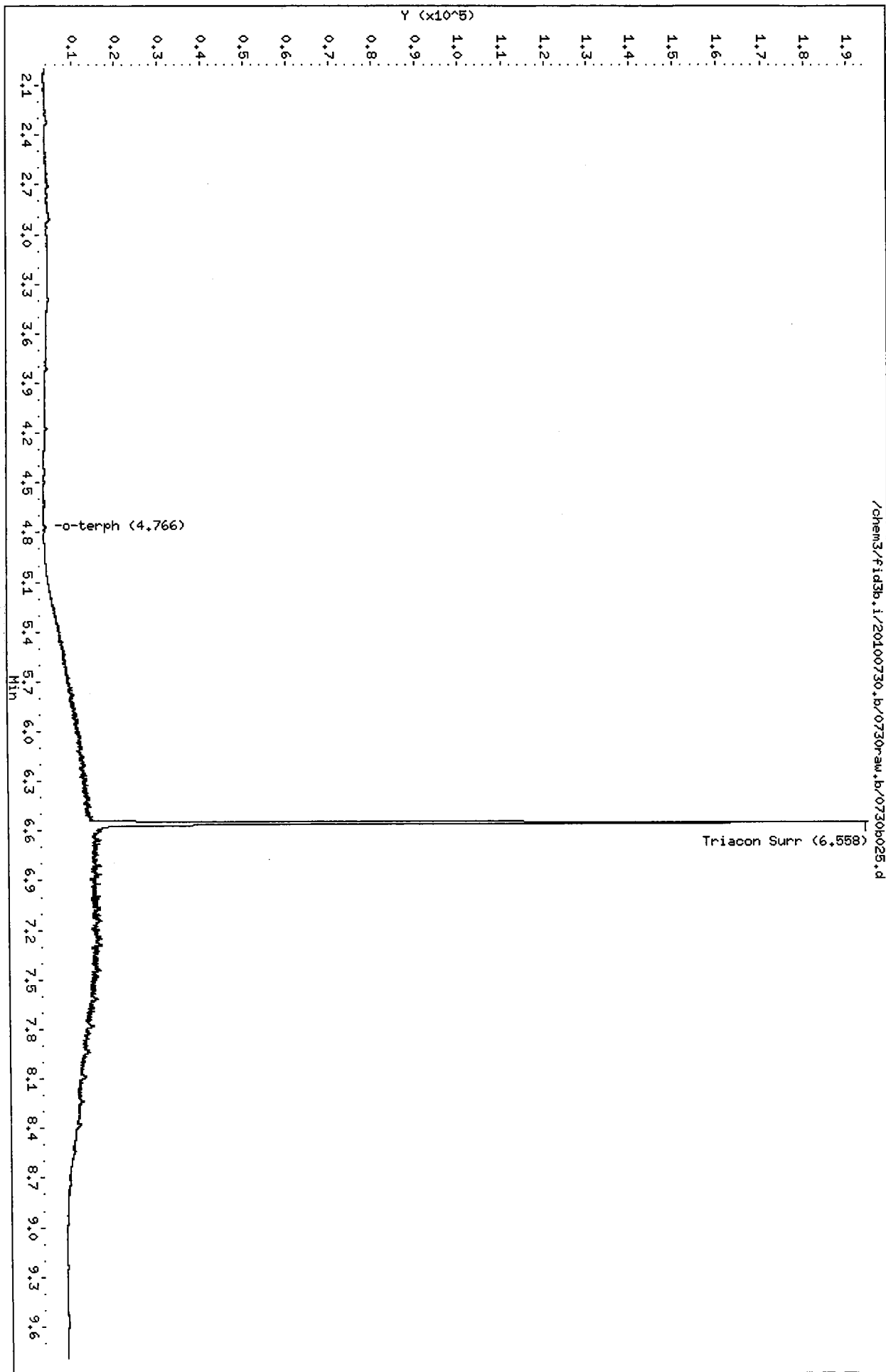
FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	59389	2
C8	----				DIESEL (C12-C24)	136639	6
C10	2.861	0.003	1070	391	M.OIL (C24-C38)	1224724	101
C12	3.472	0.004	808	323	AK-102 (C10-C25)	192127	8
C14	3.925	-0.002	408	197	AK-103 (C25-C36)	1036816	116
C16	4.325	0.003	148	52	OR.DIES (C10-C28)	467661	22
C18	4.673	-0.002	50	17	OR.MOIL (C28-C40)	1073312	95
C20	5.000	0.003	534	84			
C22	5.298	0.002	2675	836	STODDARD (C8-C12)	59389	2
C24	5.605	0.002	5233	917			
C25	5.764	0.000	6238	1108			
C26	5.924	-0.002	7918	3299			
C28	6.245	0.001	9206	1987			
C32	6.858	0.002	12172	4066			
C34	7.140	-0.001	12960	3267	CREOSOT (C8-C22)	118096	18
Filter Peak	----						
C36	7.413	-0.001	11888	4717	BUNKERC (C10-C38)	1397827	162
o-terph	4.766	0.004	653	656	JET-A (C10-C18)	58172	4
Triacon Surr	6.558	-0.001	191299	170692	IT.MOIL (C24-C40)	1538562	72

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	656	0.0	0.1
Triacontane	170692	10.2	22.7

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b026.d ARI ID: MOIL 250
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 30-JUL-2010 22:55
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	54421	2
C8	----				DIESEL (C12-C24)	322420	15
C10	2.860	0.002	1106	911	M.OIL (C24-C38)	2867075	237
C12	3.466	-0.001	692	284	AK-102 (C10-C25)	405267	17
C14	3.923	-0.003	393	183	AK-103 (C25-C36)	2449011	274
C16	4.322	0.001	138	66	OR.DIES (C10-C28)	1063179	50
C18	4.673	-0.002	150	79	OR.MOIL (C28-C40)	2456323	218
C20	4.999	0.002	1661	707			
C22	5.293	-0.003	6646	2620	STODDARD (C8-C12)	54421	2
C24	5.603	0.000	12926	3044			
C25	5.760	-0.003	15791	3992			
C26	5.923	-0.002	18737	5063			
C28	6.240	-0.004	22766	17103			
C32	6.855	0.000	29395	10185			
C34	7.138	-0.003	29817	13225	CREOSOT (C8-C22)	176037	28
Filter Peak	----						
C36	7.411	-0.002	26300	7168	BUNKERC (C10-C38)	3224498	373
o-terph	4.763	0.002	758	732	JET-A (C10-C18)	56598	4
Triacon Surr	6.557	-0.002	469017	430625	IT.MOIL (C24-C40)	3592703	167

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	732	0.0	0.1
Triacontane	430625	25.7	57.2

ms/210

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Date : 30-JUL-2010 22:55

Client ID:

Sample Info: HOIL 250

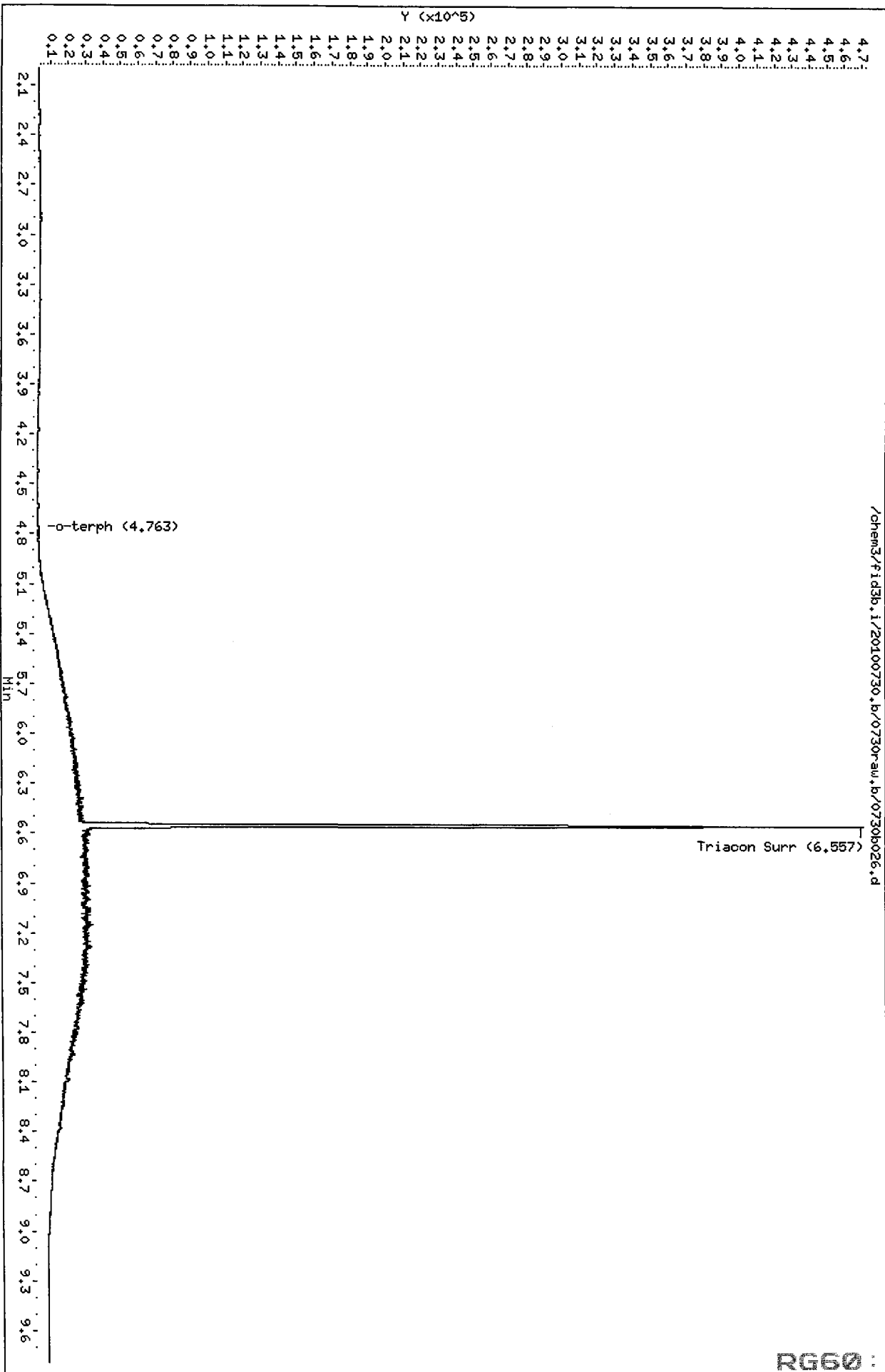
Column phase: RTX-1

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00

/chem3/fid3b.i/20100730.b/0730raw.b/0730b026.d



RG60 : 00930

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b027.d ARI ID: MOIL 500
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 30-JUL-2010 23:14
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	61429	2
C8	----				DIESEL (C12-C24)	661397	31
C10	2.856	-0.002	1273	310	M.OIL (C24-C38)	5757000	477
C12	3.467	-0.001	772	289	AK-102 (C10-C25)	796757	33
C14	3.922	-0.005	525	176	AK-103 (C25-C36)	4958432	555
C16	4.319	-0.002	278	113	OR.DIES (C10-C28)	2129868	101
C18	4.674	-0.001	552	196	OR.MOIL (C28-C40)	4884926	433
C20	4.998	0.000	3647	716			
C22	5.292	-0.004	14044	4392	STODDARD (C8-C12)	61429	2
C24	5.604	0.000	27326	15789			
C25	5.766	0.002	33190	10855			
C26	5.924	-0.002	38046	12688			
C28	6.245	0.000	48533	19176			
C32	6.858	0.002	63236	21003			
C34	7.139	-0.002	59785	13961	CREOSOT (C8-C22)	311324	49
Filter Peak	----						
C36	7.414	0.000	57110	39334	BUNKERC (C10-C38)	6457090	747
o-terph	4.762	0.000	1198	1526	JET-A (C10-C18)	73818	5
Triacon Surr	6.561	0.001	910045	900916	IT.MOIL (C24-C40)	7215620	336

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1526	0.1	0.2
Triacontane	900916	53.9	119.7

08/31/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Date : 30-JUL-2010 23:14

Instrument: fid3b.i

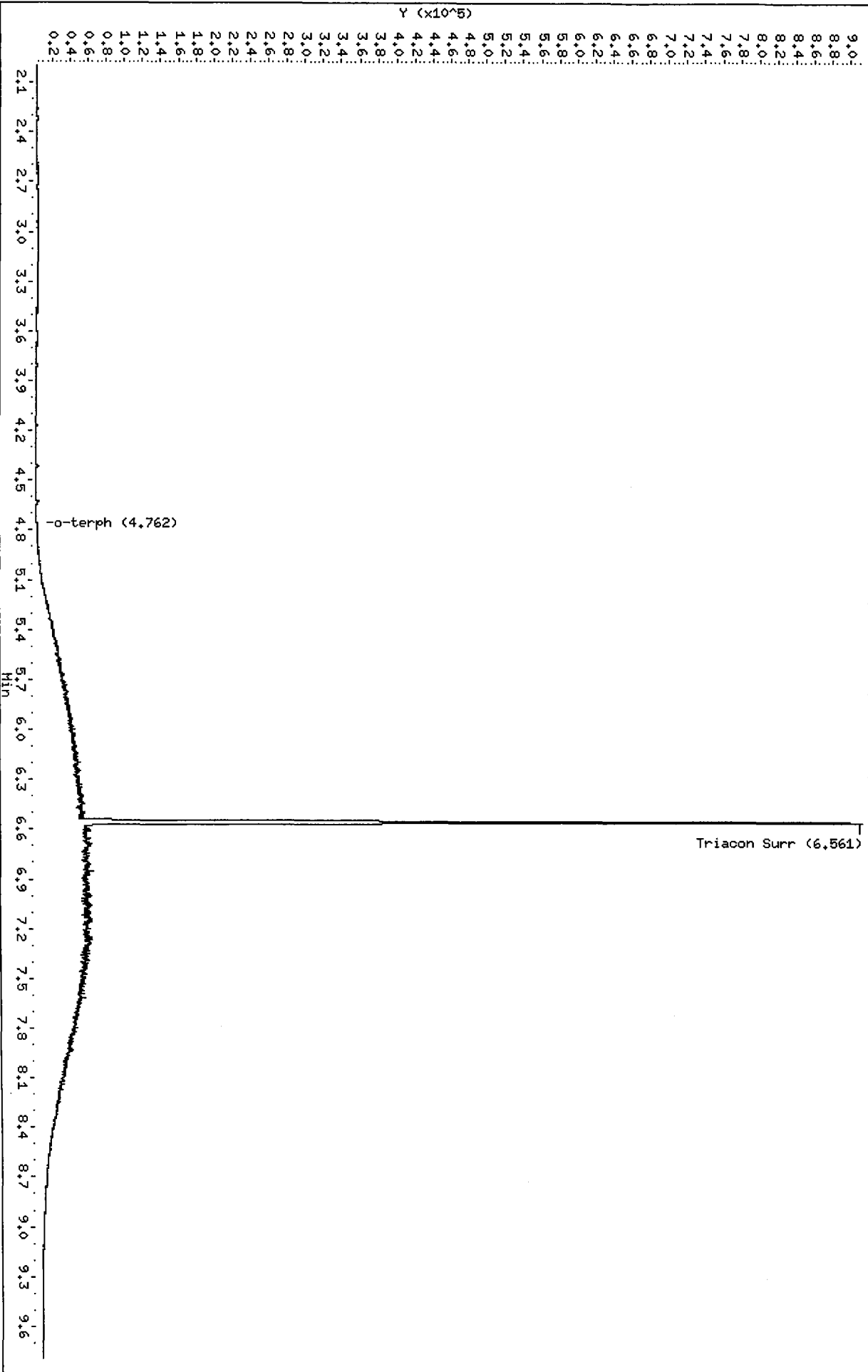
Client ID:

Sample Info: M01L 500

Column phase: RTX-1

Operator: MS
Column diameter: 2.00

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Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b028.d ARI ID: MOIL 1000
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 30-JUL-2010 23:32
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

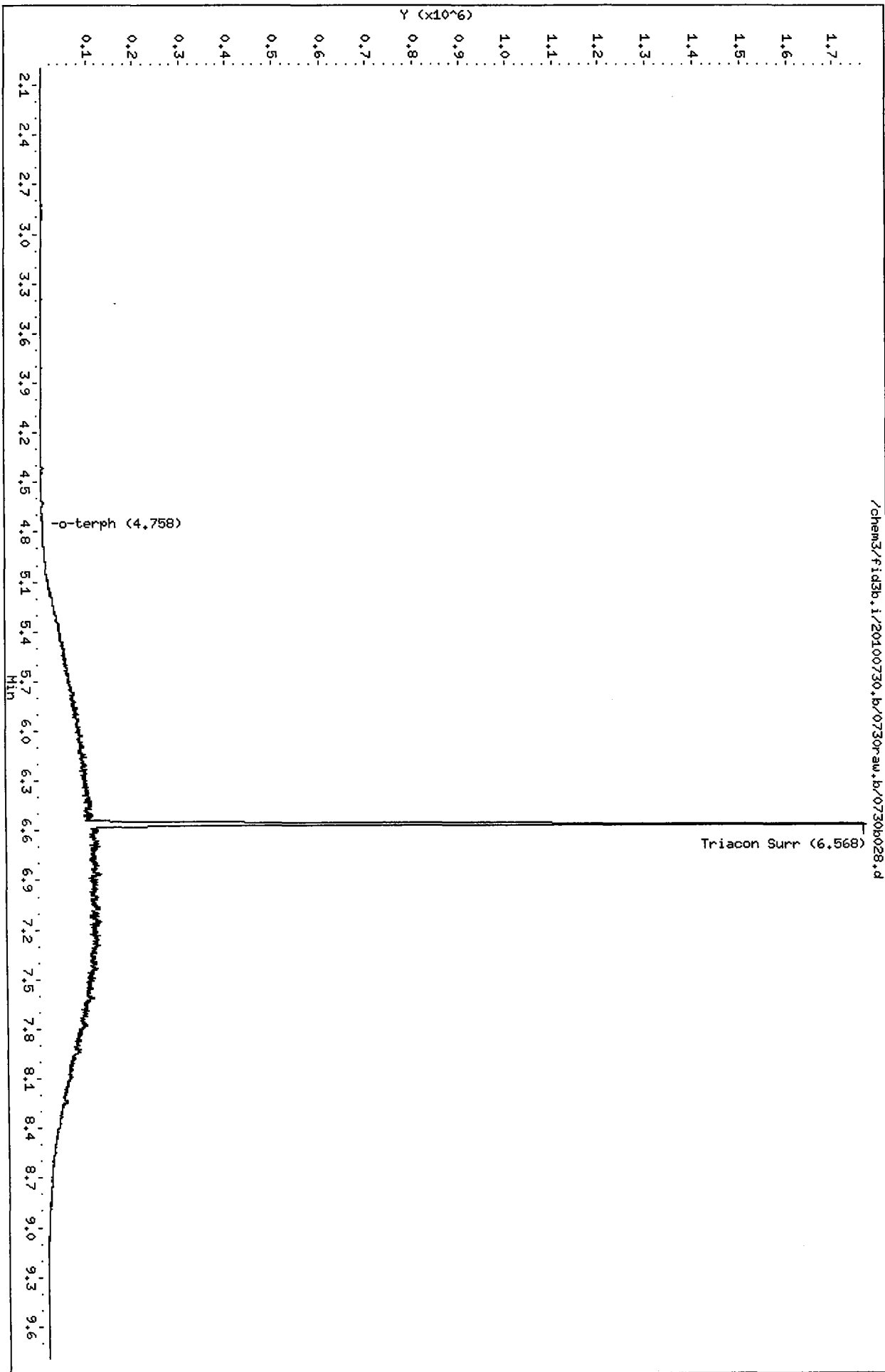
Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	72637	3
C8	----				DIESEL (C12-C24)	1386989	65
C10	2.858	0.001	1897	1836	M.OIL (C24-C38)	11563694	957
C12	3.470	0.002	1037	577	AK-102 (C10-C25)	1637290	68
C14	3.925	-0.001	834	432	AK-103 (C25-C36)	9855599	1103
C16	4.322	0.001	584	148	OR.DIES (C10-C28)	4288810	203
C18	4.677	0.002	1434	588	OR.MOIL (C28-C40)	9856552	874
C20	5.000	0.003	8627	6697			
C22	5.298	0.003	30407	15588	STODDARD (C8-C12)	72637	3
C24	5.601	-0.002	56341	40257			
C25	5.767	0.003	70210	55090			
C26	5.924	-0.001	76118	32730			
C28	6.246	0.002	93898	37136			
C32	6.854	-0.002	121094	45621			
C34	7.141	0.000	119577	41572	CREOSOT (C8-C22)	609564	95
Filter Peak	----						
C36	7.409	-0.004	114138	61669	BUNKERC (C10-C38)	12998040	1504
o-terph	4.758	-0.003	2740	1977	JET-A (C10-C18)	111596	7
Triacon Surr	6.568	0.009	1763841	1894900	IT.MOIL (C24-C40)	14605916	680

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1977	0.1	0.2
Triacotane	1894900	113.3	251.8

MJD/27

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b030.d ARI ID: MOIL 2500
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 31-JUL-2010 00:10
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	95636	3
C8	----				DIESEL (C12-C24)	3379394	158
C10	2.857	-0.001	3357	3375	M.OIL (C24-C38)	32896882	2723
C12	3.471	0.003	1596	1868	AK-102 (C10-C25)	3927075	163
C14	3.927	0.001	1514	356	AK-103 (C25-C36)	28841572	3229
C16	4.322	0.001	1563	1411	OR.DIES (C10-C28)	10612044	503
C18	4.676	0.001	3568	4270	OR.MOIL (C28-C40)	28397062	2519
C20	4.996	-0.001	22446	7349			
C22	5.295	-0.001	73882	30652	STODDARD (C8-C12)	95636	3
C24	5.605	0.002	133400	26133			
C25	5.762	-0.001	165074	51876			
C26	5.928	0.002	188516	86981			
C28	6.238	-0.006	233688	182539			
C32	6.857	0.001	290957	171974			
C34	7.138	-0.003	286943	126318	CREOSOT (C8-C22)	1390131	217
Filter Peak	----						
C36	7.411	-0.002	275697	173060	BUNKERC (C10-C38)	36341914	4205
o-terph	4.758	-0.004	6196	3899	JET-A (C10-C18)	200291	13
Triacon Surr	6.545	-0.014	262776	85419	IT.MOIL (C24-C40)	35649493	1659

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	3899	0.2	0.4
Triacontane	85419	5.1	11.3

Aug/31/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Date : 31-JUL-2010 00:10

Client ID:

Instrument: fid3b.i

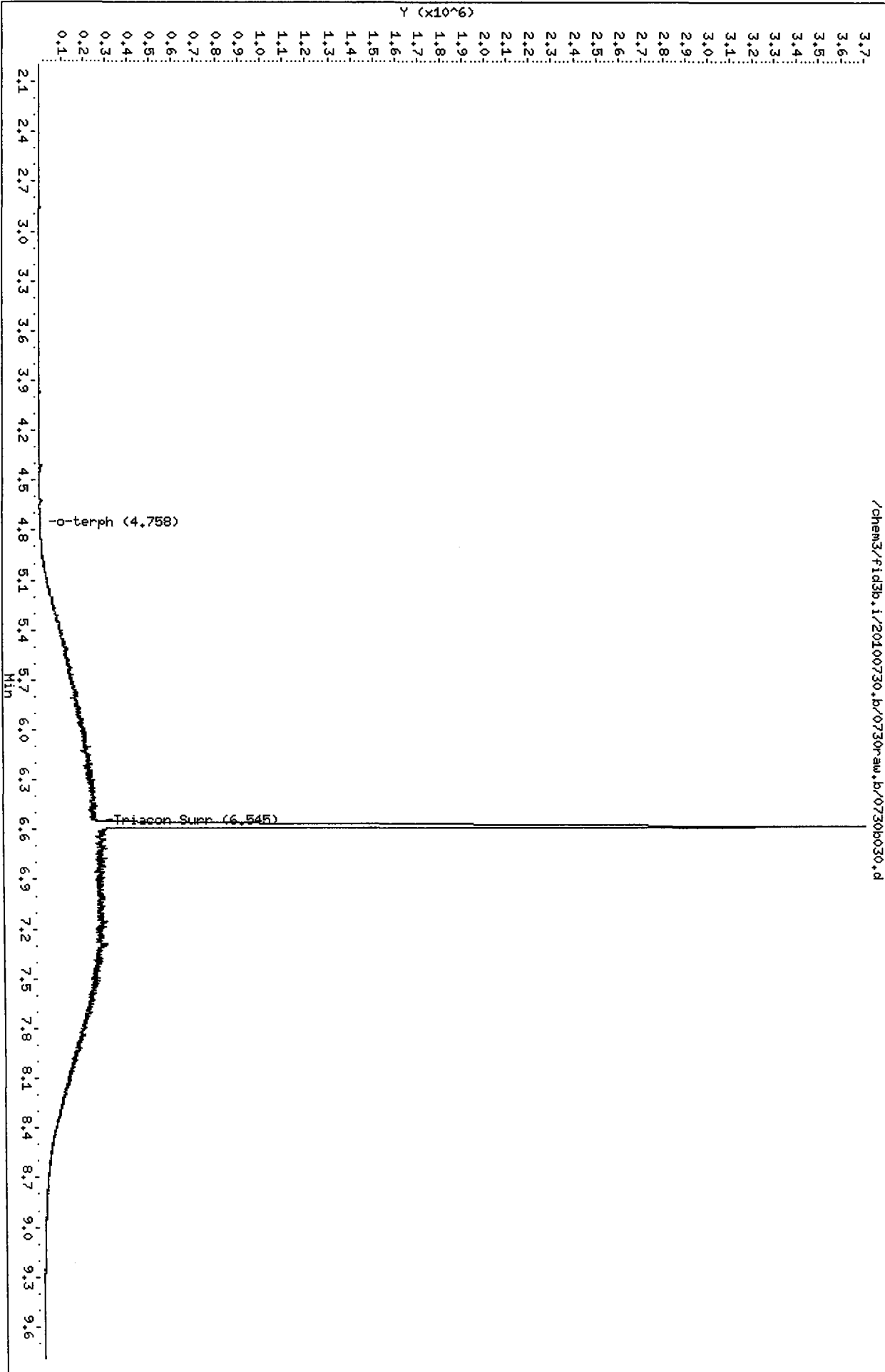
Sample Info: MOIL 2500

Operator: HS

Column phase: RTX-1

Column diameter: 2.00

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Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b032.d ARI ID: MOIL 5000
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 31-JUL-2010 00:47
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	136516	5
C8	----				DIESEL (C12-C24)	7391085	345
C10	2.860	0.002	6390	7826	M.OIL (C24-C38)	71834393	5946
C12	3.468	0.000	3090	3308	AK-102 (C10-C25)	8576883	356
C14	3.927	0.000	2902	3119	AK-103 (C25-C36)	63299858	7086
C16	4.322	0.001	3356	5579	OR.DIES (C10-C28)	23215807	1101
C18	4.674	-0.001	7922	8796	OR.MOIL (C28-C40)	61601385	5464
C20	4.996	-0.002	47935	10434			
C22	5.294	-0.002	159044	57913	STODDARD (C8-C12)	136516	5
C24	5.606	0.002	294534	135002			
C25	5.760	-0.004	341829	114396			
C26	5.924	-0.002	403139	246862			
C28	6.245	0.000	500056	192227			
C32	6.855	0.000	584755	116103			
C34	7.144	0.003	614284	191733	CREOSOT (C8-C22)	2916422	456
Filter Peak	----						
C36	7.412	-0.002	608306	208570	BUNKERC (C10-C38)	79322386	9177
o-terph	4.757	-0.005	12189	7421	JET-A (C10-C18)	369371	23
Triacon Surr	6.548	-0.012	568152	143228	IT.MOIL (C24-C40)	77472427	3605

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	7421	0.4	0.8
Triacotane	143228	8.6	19.0

M 8/3/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Date: 31-JUL-2010 00:47

Client ID:

Sample Info: M01L 5000

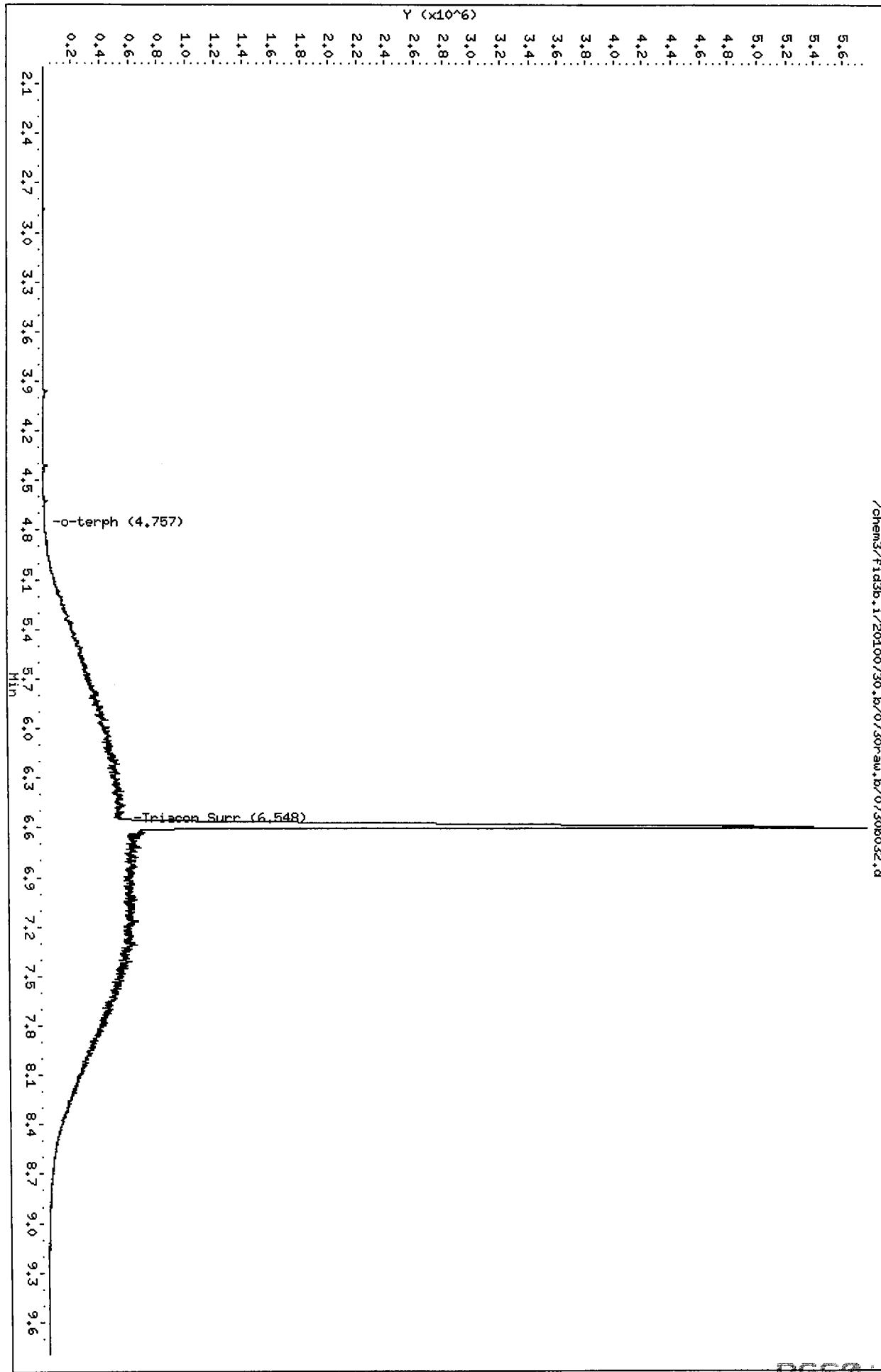
Column phase: RTX-1

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00

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Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100730.b/0730raw.b/0730b034.d ARI ID: MOIL ICV
 Method: /chem3/fid3b.i/20100730.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 31-JUL-2010 01:25
 Operator: MS Dilution Factor: 1
 Report Date: 08/03/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	69710	3
C8	----				DIESEL (C12-C24)	654549	31
C10	2.860	0.002	1401	800	M.OIL (C24-C38)	5643801	467
C12	3.466	-0.002	844	283	AK-102 (C10-C25)	785151	33
C14	3.928	0.001	611	154	AK-103 (C25-C36)	4842447	542
C16	4.325	0.004	330	255	OR.DIES (C10-C28)	2137357	101
C18	4.676	0.001	610	174	OR.MOIL (C28-C40)	4762622	422
C20	4.999	0.002	3728	881			
C22	5.295	-0.001	14759	8671	STODDARD (C8-C12)	69710	3
C24	5.604	0.001	26635	20138			
C25	5.767	0.003	34354	20126			
C26	5.925	-0.001	38360	10923			
C28	6.242	-0.003	45237	26594			
C32	6.858	0.003	58973	16709			
C34	7.142	0.000	60409	28174	CREOSOT (C8-C22)	326198	51
Filter Peak	----						
C36	7.410	-0.003	54496	40370	BUNKERC (C10-C38)	6342170	734
o-terph	4.761	-0.001	1177	942	JET-A (C10-C18)	83224	5
Triacon Surr	6.560	0.000	917980	752053	IT.MOIL (C24-C40)	6953664	324

Range Times: NW Diesel(3.518 - 5.653) NW Gas(0.983 - 3.518) NW M.Oil(5.653 - 7.720)
 AK102(2.808 - 5.714) AK103(5.714 - 7.463) Jet A(2.808 - 4.725)

Surrogate	Area	Amount	%Rec
o-Terphenyl	942	0.0	0.1
Triacontane	752053	45.0	99.9

M 8/2/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

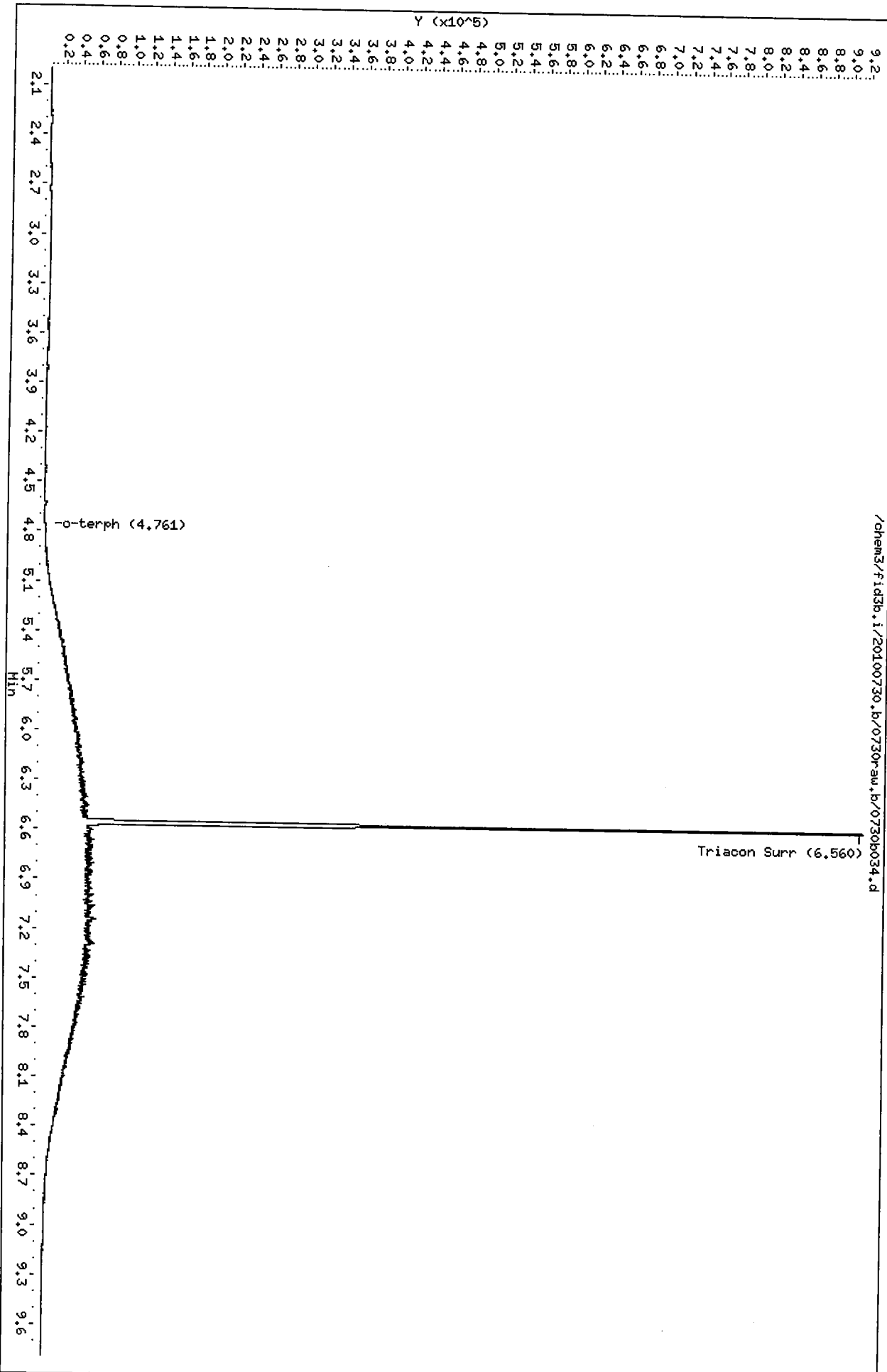
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Date: 31-JUL-2010 01:25

Client ID:
Sample Info: MOIL ICV

Instrument: fid3b.i

Column phase: RTX-1

Operator: MS
Column diameter: 2.00



**TPHD Raw Data
Run Logs, Continuing Calibrations, and Raw Data**

ARI Job ID: RG60



GC Analyst Notes / Corrective Action Log

ARI Project ID: RG60 Client ID: Floyd / Snider

ARI SOP: 403S(PCB) 405S(Herb) 407S(TPH-D) 409S(HCID) 412S(PCP) 423S(Pest)
427S(Dir Inj) 428S(EPH) 432S(EDB) Other

Parameter(s): Diesel, KOil, otoph.

Instrument: FID-3A FID-3B FID-4A FID-4B FID-5 FID-7 FID-8
FID-9 ECD-1 ECD-3 ECD-4 ECD-5 ECD-6 ECD-7

Dates: Curve: 7/30/10 Analysis Start: 8/6/10

Endrin/DDT Breakdown <15%?	YES / NO / <u>NA</u>	Method Blank In Control?	<u>YES</u> / NO
ICal Meets RF & %RSD Criteria?	<u>YES</u> / NO	LCS/LCSD Recovery In Control?	<u>YES</u> / NO
CCal Meets RF & %RSD Criteria?	<u>YES</u> / NO	Surrogate Recovery In Control?	<u>YES</u> / NO
Manual Integrations for ICal?	<u>YES</u> / NO	Manual Integrations for Samples?	<u>YES</u> / NO
Internal Standard Meets Criteria?	YES / NO / <u>NA</u>	Special Analysis Criteria Met?	YES / NO / <u>NA</u>

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Additional Details on Reverse: Yes / No

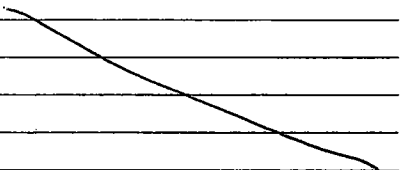
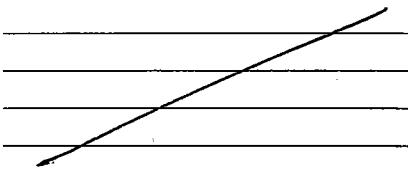
Analyst: [Signature] Date: 8/10/10

Reviewer: [Signature] Date: 8/10/10

Analytical Resources Inc.: Organics Instrument Log

FID-3B Serial No.: US00003232

Date: 8/6/10 Analysis: NWTPHD Analyst: MW
 GC Program: TPH Column No: 162198 Column Type: ZBLHTT
 Instrument Tune (.U or .CT.): _____ EM Voltage: _____
 Calibration File: _____ Curve Date: 7/30/10

IS/SS	Ical/Ccal	LCS/ICV
	1700-1 1680-3 1730-3 1737-3	

Time	Filename	LabID	ClientID	DF	Time	Filename	LabID	ClientID	DF		
1	1328	0806b001.d	RINSE	1	23	2029	0806b023.d	RG60F	PSB13-14.5-1	1	
2	1346	0806b002.d	RT	1	24	2047	0806b024.d	RG60FMS	PSB13-14.5-1	1	
3	1405	0806b003.d	IB	1	25	2106	0806b025.d	RG60FMSD	PSB13-14.5-1	1	
4	1424	0806b004.d	DIESEL#1	1	26	2125	0806b026.d	RG71A		1	
5	1443	0806b005.d	MOIL#1	1	27	2144	0806b027.d	RG71B		1	
6	1502	0806b006.d	RG52MBS1	RG52MBS1	1	28	2203	0806b028.d	RG71C	1	
7	1521	0806b007.d	RG52LCSS1	RG52LCSS1	1	29	2222	0806b029.d	DIESEL#4	1	
8	1540	0806b008.d	RG52LCSDS1	RG52LCSDS1	1	30	2241	0806b030.d	MOIL#4	1	
9	1600	0806b009.d	DIESEL#2		1	31	2300	0806b031.d	RG85MBS1	RG85MBS1	1
10	1619	0806b010.d	MOIL#2		1	32	2319	0806b032.d	RG85LCSS1	RG85LCSS1	1
11	1638	0806b011.d	RG60C	PSB13-2-4-07	10	33	2338	0806b033.d	RG85LCSDS1	RG85LCSDS1	1
12	1657	0806b012.d	RG52C	KSC-DP-7-S-3	1	34	2357	0806b034.d	RG85A	1st-ST5-2-08	1
13	1717	0806b013.d	RG52D	KSC-DP-8-S-4	1	35	0016	0806b035.d	RG85B	1st-ST5-4-08	1
14	1736	0806b014.d	RG52E	KSC-DP-9-S-5	1	36	0035	0806b036.d	DIESEL#5		1
15	1755	0806b015.d	RG52F	KSC-DP-1-S-7	1	37	0054	0806b037.d	MOIL#5		1
16	1815	0806b016.d	RG60A	PSB13-0-0.5-	1						
17	1834	0806b017.d	RG52F	KSC-DP-3-S-7	20						
18	1853	0806b018.d	RG60B	PSB13-1.5-2-	1						
19	1912	0806b019.d	RG60D	PSB13-4-6-07	1						
20	1931	0806b020.d	DIESEL#3		1						
21	1951	0806b021.d	MOIL#3		1						
22	2010	0806b022.d	RG60E	PSB13-1-1-	1						

MW

MW

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/fid3b.i/20100806.b

ARI Job No.: RT Method: i/20100806.b/ftphfid3b.m Instrument: fid3b.i Date: 06-AUG-2010

Time Filename LabID ClientId DF Manually Integrated Compounds

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1346	0806b002.d	RT		1	Toluene, C8,
1405	0806b003.d	IB		1	NO MANUAL INTEGRATION
1424	0806b004.d	DIESEL#1		1	o-terph,
1443	0806b005.d	MOIL#1		1	Triacon Surr,
1502	0806b006.d	RG52MBS1		1	NO MANUAL INTEGRATION
1521	0806b007.d	RG52LCSS1		1	o-terph,
1540	0806b008.d	RG52LCSDS1		1	o-terph,
1600	0806b009.d	DIESEL#2		1	o-terph,
1619	0806b010.d	MOIL#2		1	Triacon Surr,
1638	0806b011.d	RG60C	PSB13-2-4-	10	o-terph, Triacon Surr,
1657	0806b012.d	RG52C	KSC-DP-7-S	1	Triacon Surr,
1717	0806b013.d	RG52D	KSC-DP-8-S	1	NO MANUAL INTEGRATION
1736	0806b014.d	RG52E	KSC-DP-9-S	1	Triacon Surr,
1755	0806b015.d	RG52F	KSC-DP-3-S	1	Triacon Surr,
1815	0806b016.d	RG60A	PSB13-0-0.	1	Triacon Surr,
1834	0806b017.d	RG52F	KSC-DP-3-S	20	NO MANUAL INTEGRATION
1853	0806b018.d	RG60B	PSB13-1.5-	1	o-terph, Triacon Surr,
1912	0806b019.d	RG60D	PSB13-4-6-	1	Triacon Surr,
1931	0806b020.d	DIESEL#3	DIESEL#3	1	o-terph,
1951	0806b021.d	MOIL#3	MOIL#3	1	Triacon Surr,
1970	0806b022.d	RG60E	PSB13-11-1	1	Triacon Surr,
2029	0806b023.d	RG60F	PSB13-14.5	1	Triacon Surr,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/fid3b.i/20100806.b

Time Filename LabID ClientId DF Manually Integrated Compounds

2047	0806b024.d	RG60FMS	PSB13-14.5	1	o-terph, Triacon Surr,
2106	0806b025.d	RG60FMSD	PSB13-14.5	1	o-terph, Triacon Surr,
2125	0806b026.d	RG71A		1	NO MANUAL INTEGRATION
2144	0806b027.d	RG71B		1	NO MANUAL INTEGRATION
2203	0806b028.d	RG71C		1	NO MANUAL INTEGRATION
2222	0806b029.d	DIESEL#4	DIESEL#4	1	o-terph,
2241	0806b030.d	MOIL#4	MOIL#4	1	Triacon Surr,

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806b002.d
Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/10/2010
Macro: FID:3B073010

ARI ID: RT
Client ID: RT
Injection: 06-AUG-2010 13:46
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.026	0.000	758641	561437	GAS (Tol-C12)	1877512	69
C8	1.319	0.000	294645	342795	DIESEL (C12-C24)	2983008	139
C10	2.856	0.000	788609	446202	M.OIL (C24-C38)	3604710	298
C12	3.465	0.000	915839	441001	AK-102 (C10-C25)	3938003	163
C14	3.924	0.000	852858	446943	AK-103 (C25-C36)	3183257	356
C16	4.318	0.000	822131	453560	OR.DIES (C10-C28)	5582902	265
C18	4.674	0.000	799160	471608	OR.MOIL (C28-C40)	2295487	204
C20	4.995	0.000	736630	443585			
C22	5.292	0.000	700778	438940	STODDARD (C8-C12)	1316075	48
C24	5.601	0.000	646096	459137			
C25	5.762	0.000	797991	647460			
C26	5.921	0.000	617699	474827			
C28	6.241	0.000	550191	481524			
C32	6.853	0.000	559831	494167			
C34	7.138	0.000	507370	477186	CREOSOT (C8-C22)	3790220	593
Filter Peak	----						
C36	7.413	0.000	498772	467668	BUNKERC (C10-C38)	7529845	871
o-terph	4.763	0.000	2473210	1630561	JET-A (C10-C18)	2428504	153
Triacon Surr	6.562	0.000	1826080	1690777	IT.MOIL (C24-C40)	5644664	263

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

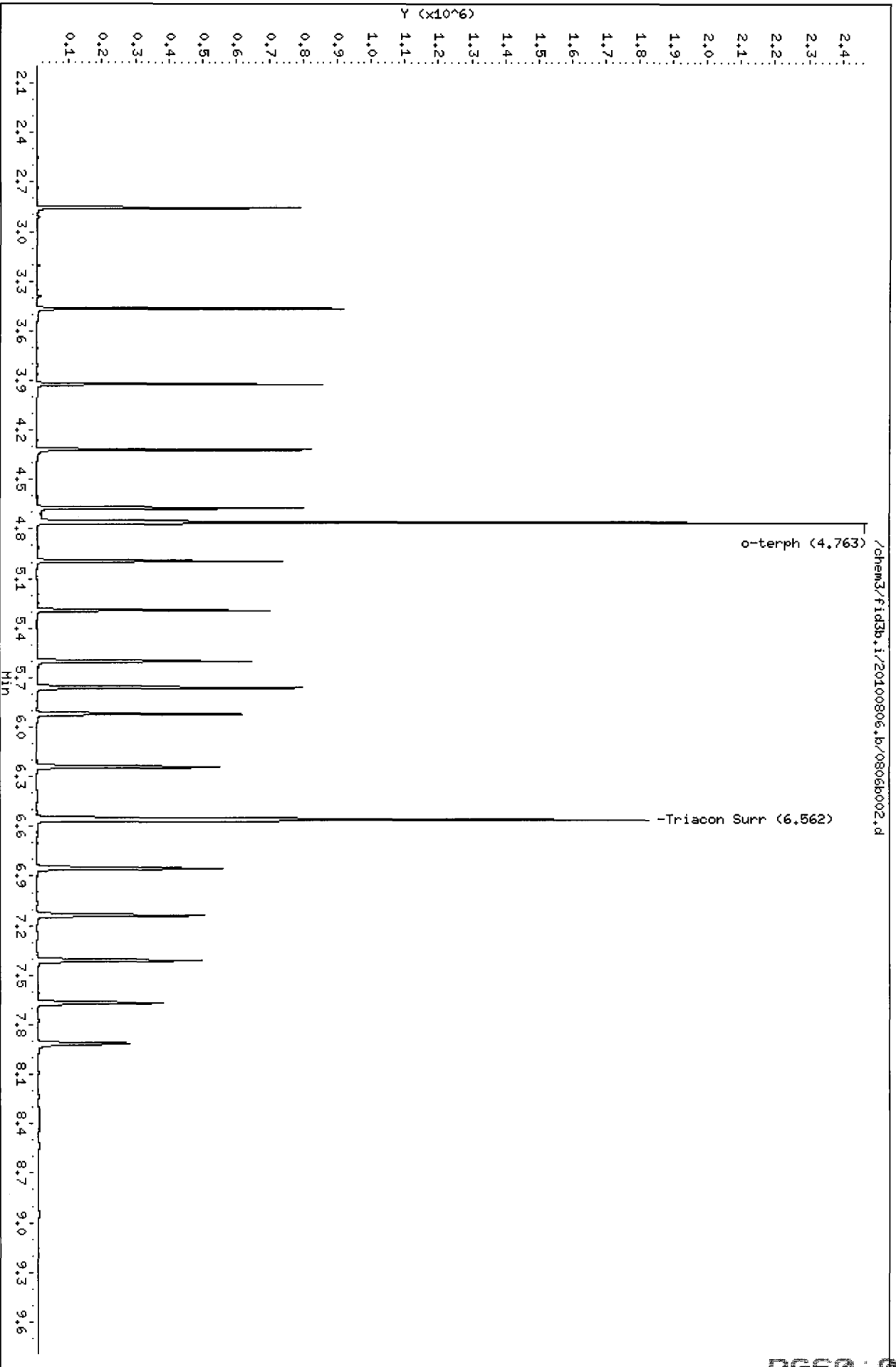
Surrogate	Area	Amount	%Rec
o-Terphenyl	1630561	81.8	181.8
Triacontane	1690777	101.1	224.6

MS 8/10/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Column phase: RTX-1

Operator: HS
Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806b003.d
Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/10/2010
Macro: FID:3B073010

ARI ID: IB
Client ID: IB
Injection: 06-AUG-2010 14:05
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	50275	2
C8	----				DIESEL (C12-C24)	45852	2
C10	2.857	0.001	1209	1061	M.OIL (C24-C38)	99948	8
C12	3.466	0.001	862	1070	AK-102 (C10-C25)	81180	3
C14	3.925	0.001	425	182	AK-103 (C25-C36)	76139	9
C16	4.319	0.000	221	47	OR.DIES (C10-C28)	85113	4
C18	4.672	-0.002	348	270	OR.MOIL (C28-C40)	125327	11
C20	5.003	0.008	494	406			
C22	5.290	-0.002	158	141	STODDARD (C8-C12)	50275	2
C24	5.601	0.000	43	13			
C25	5.758	-0.005	52	14			
C26	5.914	-0.007	65	13			
C28	6.243	0.002	709	1053			
C32	6.844	-0.009	951	131			
C34	7.139	0.002	1013	1193	CREOSOT (C8-C22)	95289	15
Filter Peak	----						
C36	7.413	0.001	1117	1015	BUNKERC (C10-C38)	181087	21
o-terph	4.764	0.000	2441327	1502694	JET-A (C10-C18)	61759	4
Triacon Surr	6.563	0.000	1325583	1250937	IT.MOIL (C24-C40)	1380239	64

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1502694	75.4	167.5
Triacontane	1250937	74.8	166.2

MS 8/10/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100806.b/0806b003.d
Date: 06-AUG-2010 14:05

Client ID: IB

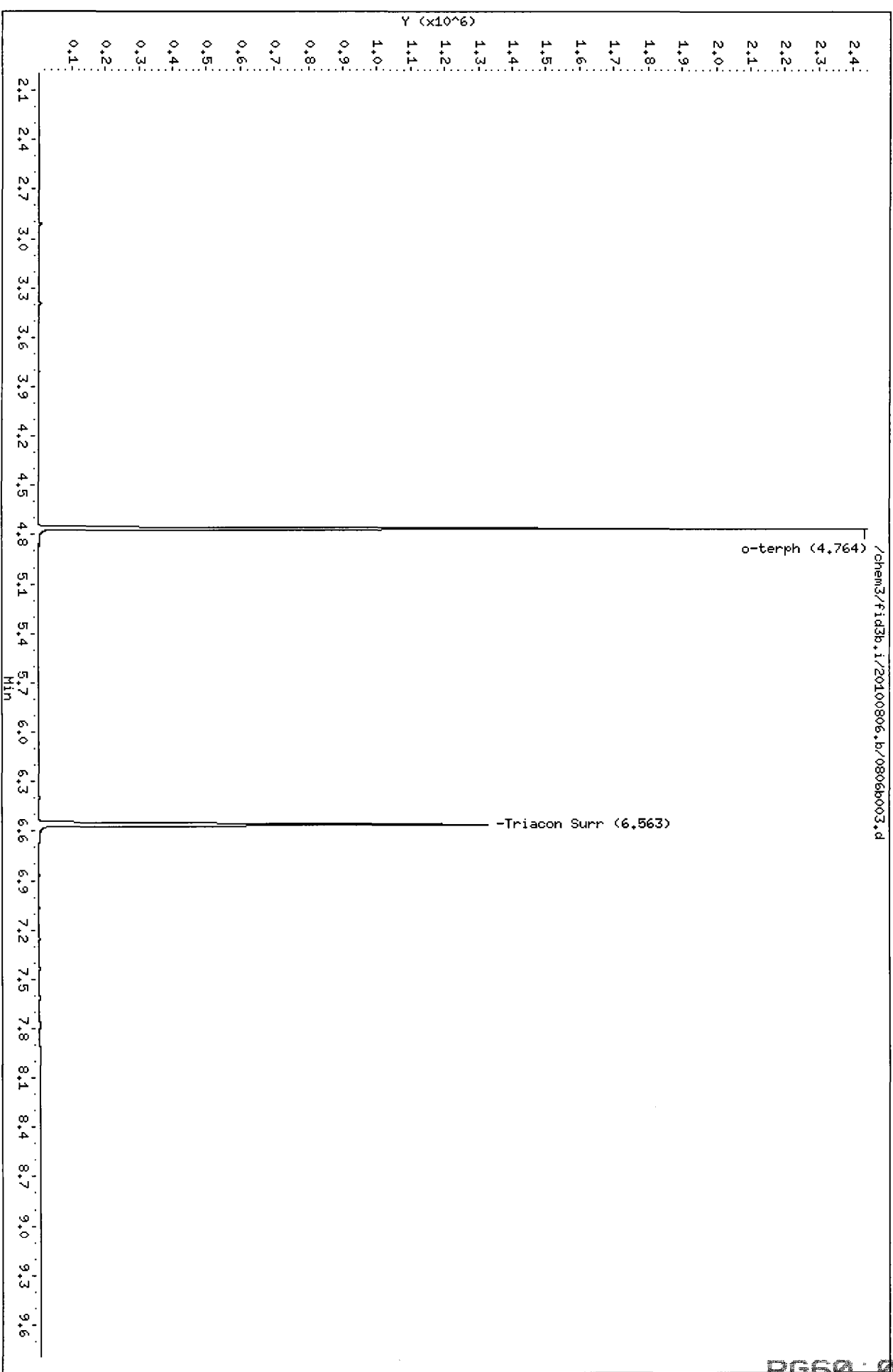
Sample Info: IB

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



RG60 00958

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806raw.b/0806b004.d ARI ID: DIESEL#1
 Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 06-AUG-2010 14:24
 Operator: MS Dilution Factor: 1
 Report Date: 08/10/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	796640	29
C8	----				DIESEL (C12-C24)	5230467	244
C10	2.855	-0.001	26605	19982	M.OIL (C24-C38)	79705	7
C12	3.466	0.000	69841	49463	AK-102 (C10-C25)	5886359	244
C14	3.923	-0.001	136305	112126	AK-103 (C25-C36)	53733	6
C16	4.319	0.000	236458	184261	OR.DIES (C10-C28)	5924629	281
C18	4.672	-0.002	211993	174901	OR.MOIL (C28-C40)	42814	4
C20	4.994	-0.001	128658	100624			
C22	5.293	0.001	51370	51987	STODDARD (C8-C12)	796640	29
C24	5.605	0.004	10809	17926			
C25	5.766	0.004	3764	3493			
C26	5.924	0.003	1247	270			
C28	6.239	-0.001	219	79			
C32	6.844	-0.010	60	22			
C34	7.137	0.000	146	43	CREOSOT (C8-C22)	5847603	914
Filter Peak	----						
C36	7.413	0.000	554	255	BUNKERC (C10-C38)	5951049	689
o-terph	4.762	-0.001	1683623	1027428	JET-A (C10-C18)	4444301	280
Triacon Surr	6.560	-0.003	117	19	IT.MOIL (C24-C40)	96118	4

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
 AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1027428	51.5	114.5
Triacontane	19	0.0	0.0

MS 8/10/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100806.b/0806raw.b/0806p004.d
Date: 06-AUG-2010 14:24

Client ID:

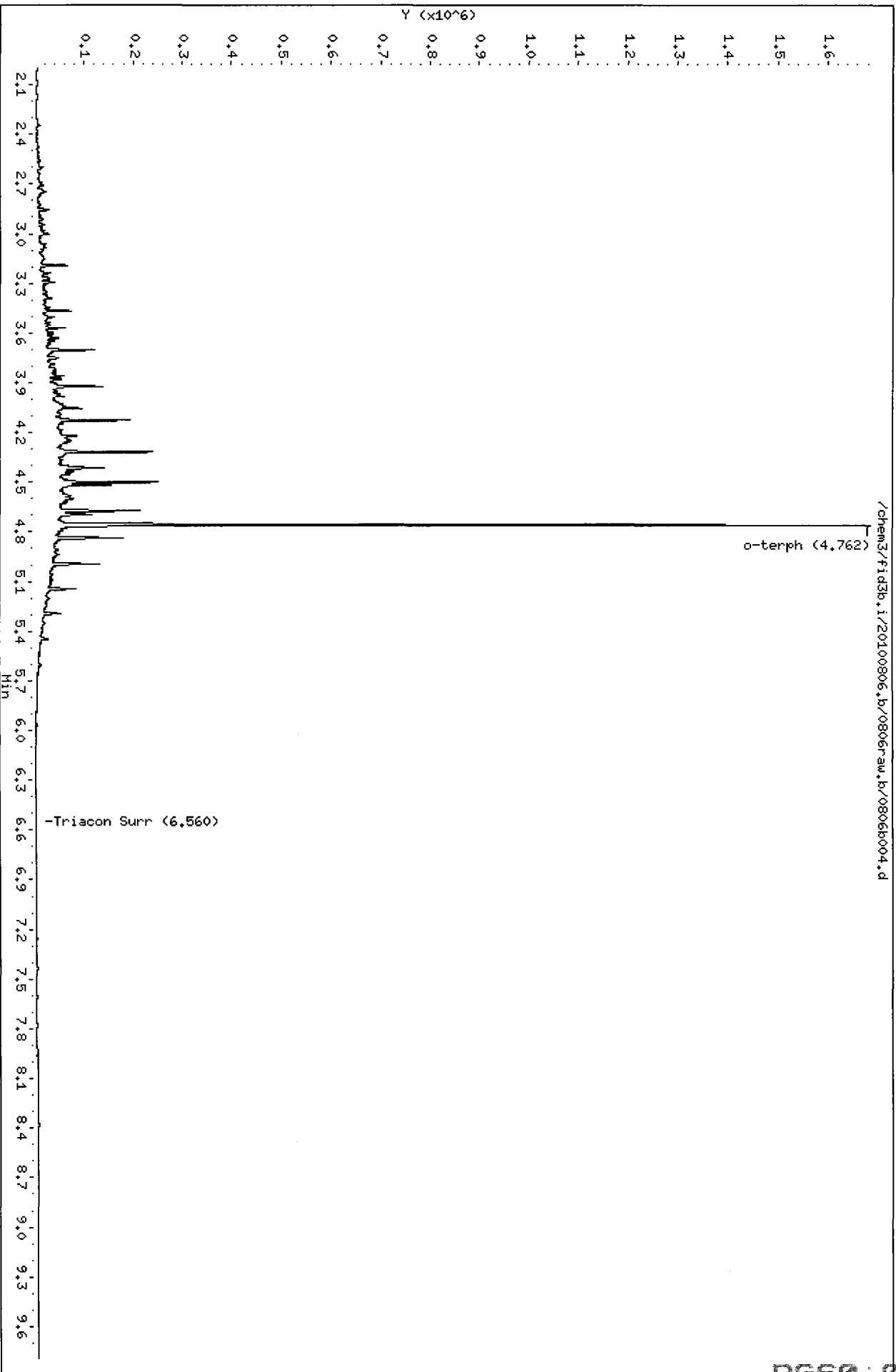
Sample Info: DIESEL#1

Column phase: RTX-1

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00



Data File: /chem3/fid3b.i/20100806.b/0806b004.d
Date : 06-AUG-2010 14:24

Client ID: DIESEL#1

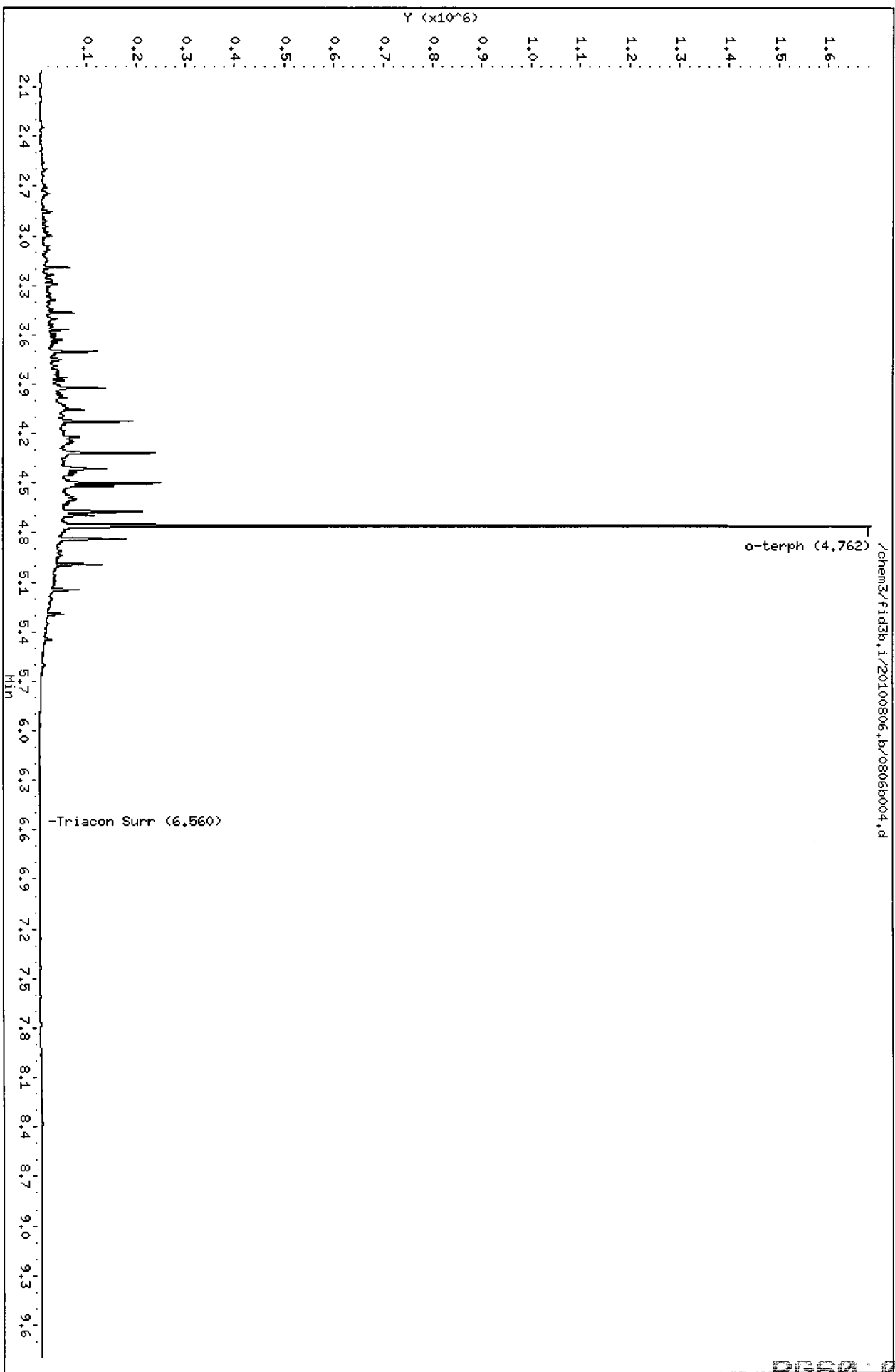
Sample Info: DIESEL#1

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



RG60-00962

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806raw.b/0806b005.d ARI ID: MOIL#1
 Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m Client ID:
 Instrument: fid3b.i Injection: 06-AUG-2010 14:43
 Operator: MS Dilution Factor: 1
 Report Date: 08/10/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	42708	2
C8	----				DIESEL (C12-C24)	727136	34
C10	2.858	0.002	1012	1320	M.OIL (C24-C38)	6029663	499
C12	3.468	0.003	642	390	AK-102 (C10-C25)	884999	37
C14	3.918	-0.006	463	109	AK-103 (C25-C36)	5177254	580
C16	4.318	0.000	331	58	OR.DIES (C10-C28)	2330589	111
C18	4.678	0.004	813	586	OR.MOIL (C28-C40)	4969089	441
C20	4.999	0.004	4600	2838			
C22	5.292	-0.001	15973	9586	STODDARD (C8-C12)	42708	2
C24	5.603	0.002	28332	12174			
C25	5.759	-0.003	36687	11265			
C26	5.922	0.001	42412	13534			
C28	6.242	0.002	54052	22999			
C32	6.854	0.000	60599	13035			
C34	7.139	0.001	66224	26337	CREOSOT (C8-C22)	318002	50
Filter Peak	----						
C36	7.412	-0.001	54915	8600	BUNKERC (C10-C38)	6787856	785
o-terph	4.760	-0.003	3200	3782	JET-A (C10-C18)	67212	4
Triacon Surr	6.560	-0.002	1034265	975310	IT.MOIL (C24-C40)	7516795	350

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
 AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	3782	0.2	0.4
Triacontane	975310	58.3	129.6

MS 8/10/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100806.b/0806raw.b/0806b005.d
Date : 06-AUG-2010 14:43

Client ID:

Sample Info: MOIL#1

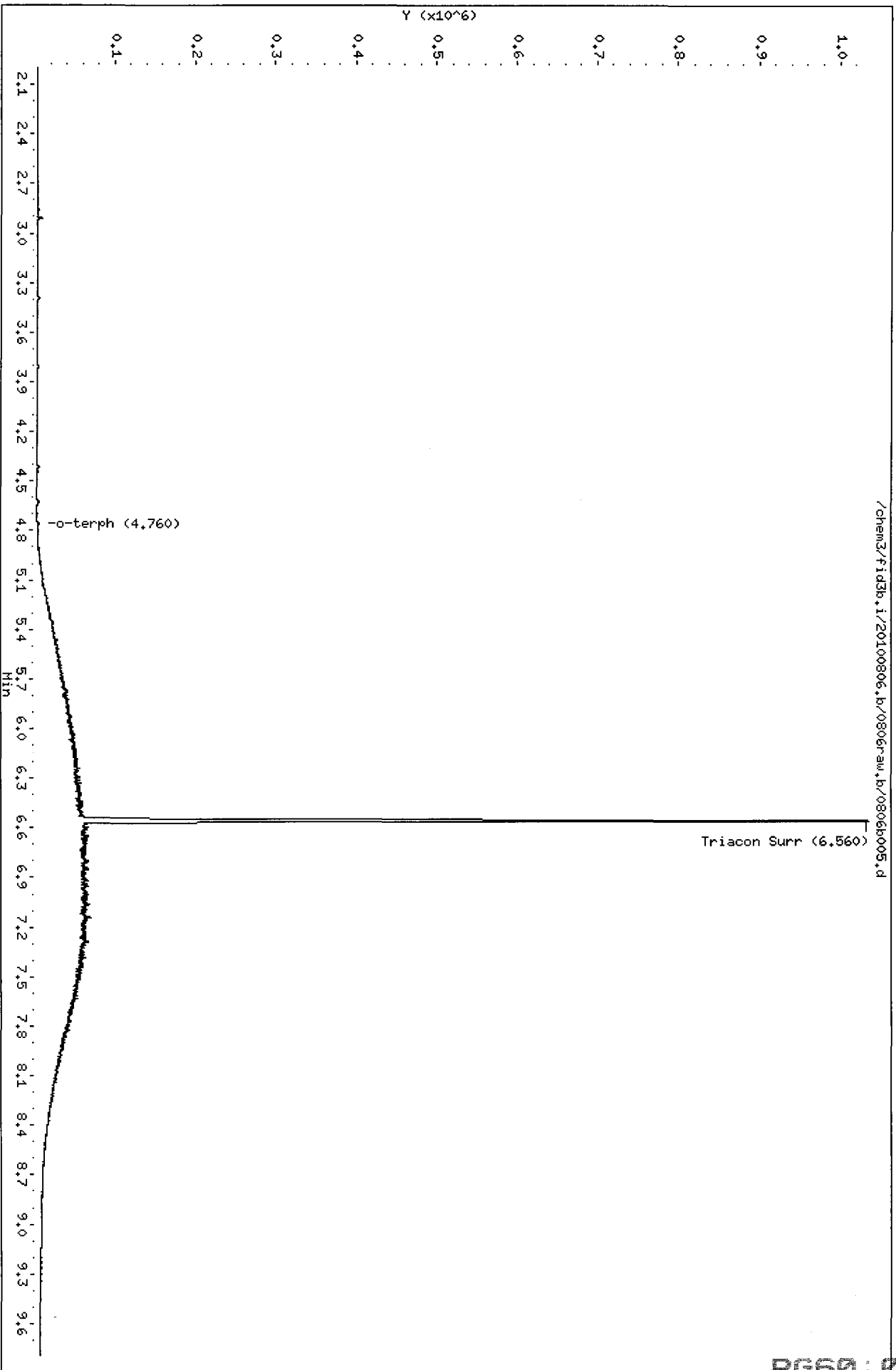
Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00

/chem3/fid3b.i/20100806.b/0806raw.b/0806b005.d



RG60 : 00954

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806b005.d
Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/10/2010
Macro: FID:3B073010

ARI ID: MOIL#1
Client ID: MOIL#1
Injection: 06-AUG-2010 14:43
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	42708	2
C8	----				DIESEL (C12-C24)	727136	34
C10	2.858	0.002	1012	1320	M.OIL (C24-C38)	6180859	512
C12	3.468	0.003	642	390	AK-102 (C10-C25)	884999	37
C14	3.918	-0.006	463	109	AK-103 (C25-C36)	5328451	597
C16	4.318	0.000	331	58	OR.DIES (C10-C28)	2330589	111
C18	4.678	0.004	813	586	OR.MOIL (C28-C40)	5120286	454
C20	4.999	0.004	4600	2838			
C22	5.292	-0.001	15973	9586	STODDARD (C8-C12)	42708	2
C24	5.603	0.002	28332	12174			
C25	5.759	-0.003	36687	11265			
C26	5.922	0.001	42412	13534			
C28	6.242	0.002	54052	22999			
C32	6.854	0.000	60599	13035			
C34	7.139	0.001	66224	26337	CREOSOT (C8-C22)	318002	50
Filter Peak	----						
C36	7.412	-0.001	54915	8600	BUNKERC (C10-C38)	6939053	803
o-terph	4.760	-0.003	3200	3782	JET-A (C10-C18)	67212	4
Triacon Surr	6.560	-0.002	975650	825264	IT.MOIL (C24-C40)	7517946	350

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	3782	0.2	0.4
Triacantane	825264	49.3	109.6

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst Ma Date 8/10/10

Data File: /chem3/fid3b.i/20100806.b/0806b005.d
Date: 06-AUG-2010 14:43

Client ID: HOIL#1

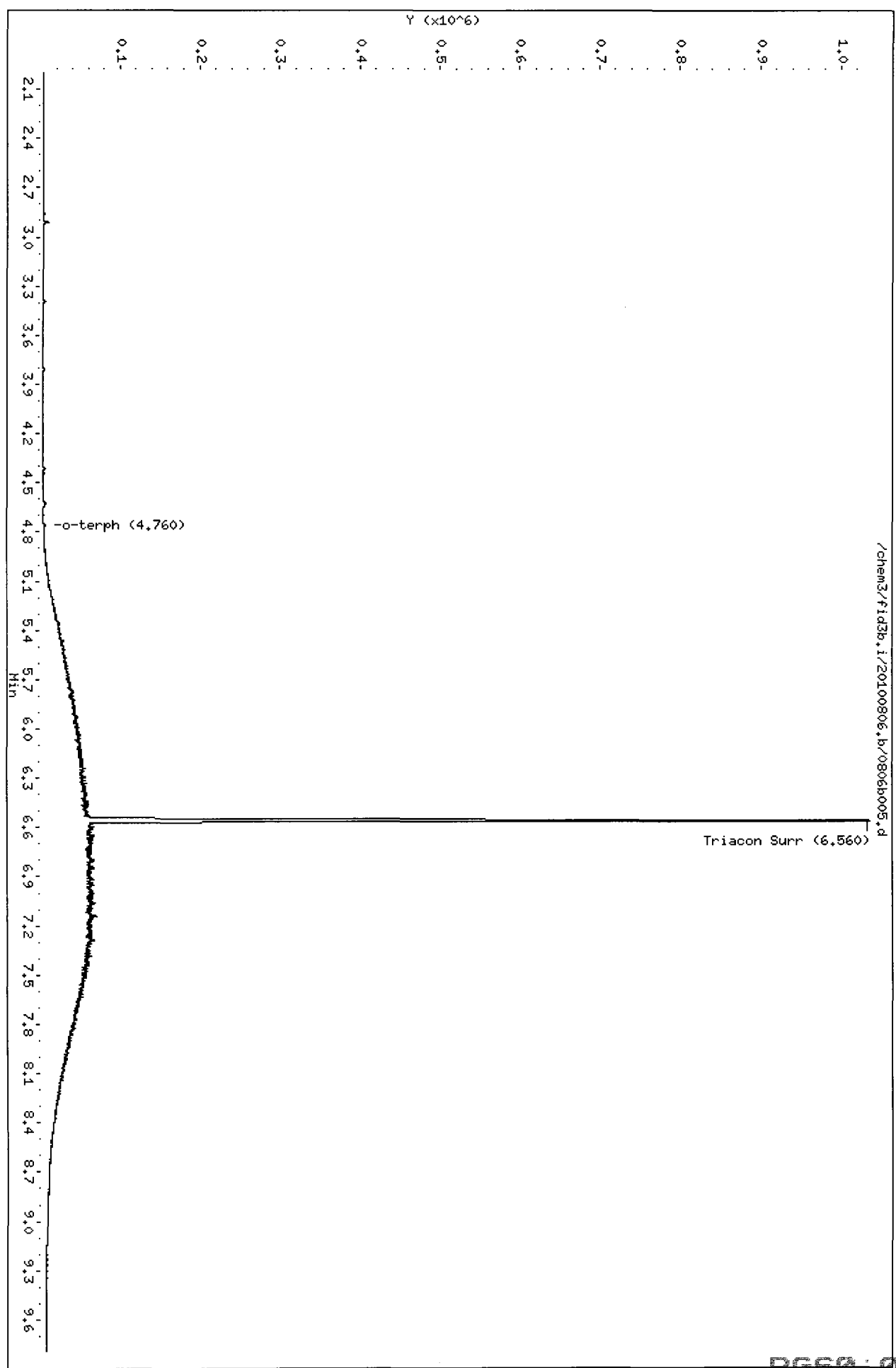
Sample Info: HOIL#1

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806b006.d
Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/10/2010
Macro: FID:3B073010

ARI ID: RG52MBS1
Client ID: RG52MBS1
Injection: 06-AUG-2010 15:02
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	302731	11
C8	----				DIESEL (C12-C24)	129350	6
C10	2.861	0.004	4000	3515	M.OIL (C24-C38)	68331	6
C12	3.457	-0.009	3038	2709	AK-102 (C10-C25)	250771	10
C14	3.925	0.001	2169	2320	AK-103 (C25-C36)	53263	6
C16	4.316	-0.003	974	399	OR.DIES (C10-C28)	253787	12
C18	4.677	0.003	568	507	OR.MOIL (C28-C40)	83465	7
C20	4.993	-0.002	691	489			
C22	5.291	-0.001	386	154	STODDARD (C8-C12)	302731	11
C24	5.602	0.001	217	115			
C25	5.766	0.004	173	55			
C26	5.917	-0.004	126	36			
C28	6.243	0.002	383	413			
C32	6.846	-0.008	746	177			
C34	7.140	0.002	913	1427	CREOSOT (C8-C22)	428769	67
Filter Peak	----						
C36	7.411	-0.002	793	220	BUNKERC (C10-C38)	318894	37
o-terph	4.762	-0.002	1480908	900792	JET-A (C10-C18)	225863	14
Triacon Surr	6.560	-0.002	809641	723406	IT.MOIL (C24-C40)	810096	38

Range Times: NW Diesel (3.515 - 5.651) NW Gas (0.976 - 3.515) NW M.Oil (5.651 - 7.720)
AK102 (2.806 - 5.712) AK103 (5.712 - 7.463) Jet A (2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	900792	45.2	100.4
Triacantane	723406	43.3	96.1

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100806.b/0806b006.d
Date: 06-AUG-2010 15:02

Client ID: RG52HBS1

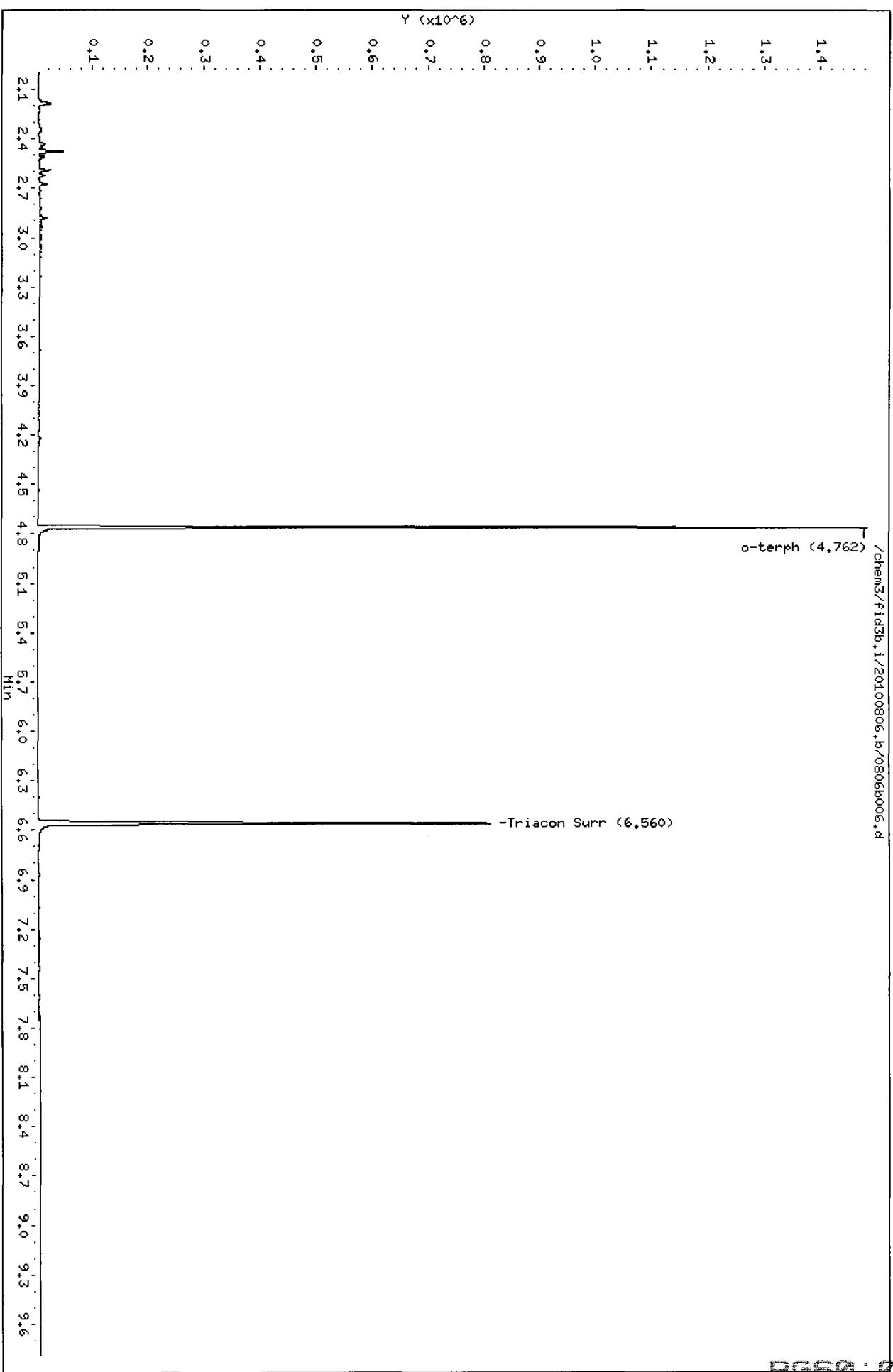
Sample Info: RG52HBS1

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



RG50:00958

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806raw.b/0806b007.d ARI ID: RG52LCSS1
 Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m Client ID: RG52LCSS1
 Instrument: fid3b.i Injection: 06-AUG-2010 15:21
 Operator: MS Dilution Factor: 1
 Report Date: 08/10/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	3734040	136
C8	----				DIESEL (C12-C24)	26916212	1258
C10	2.856	0.000	140032	95065	M.OIL (C24-C38)	325403	27
C12	3.465	0.000	368388	255243	AK-102 (C10-C25)	30083751	1248
C14	3.925	0.001	682564	681813	AK-103 (C25-C36)	240538	27
C16	4.322	0.004	1205917	959768	OR.DIES (C10-C28)	30292552	1436
C18	4.679	0.005	1048996	882784	OR.MOIL (C28-C40)	46249	4
C20	4.998	0.003	694044	595238			
C22	5.293	0.001	303308	255645	STODDARD (C8-C12)	3734040	135
C24	5.600	-0.001	80470	90495			
C25	5.760	-0.002	33544	52146			
C26	5.921	0.000	13184	20927			
C28	6.241	0.000	2586	3013			
C32	6.847	-0.007	365	51			
C34	7.138	0.000	481	283	CREOSOT (C8-C22)	29693036	4642
Filter Peak	----						
C36	7.413	0.000	212	39	BUNKERC (C10-C38)	30329264	3509
o-terph	4.764	0.001	2173664	1492890	JET-A (C10-C18)	22287247	1406
Triacon Surr	6.559	-0.003	923089	819080	IT.MOIL (C24-C40)	1154021	54

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
 AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1492890	74.9	166.4
Triacotane	819080	49.0	108.8

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Muz/01/0

Data File: /chem3/fid3b.i/20100806.b/0806raw.b/0806b007.d
Date : 06-AUG-2010 15:21

Client ID: RG52LCSS1

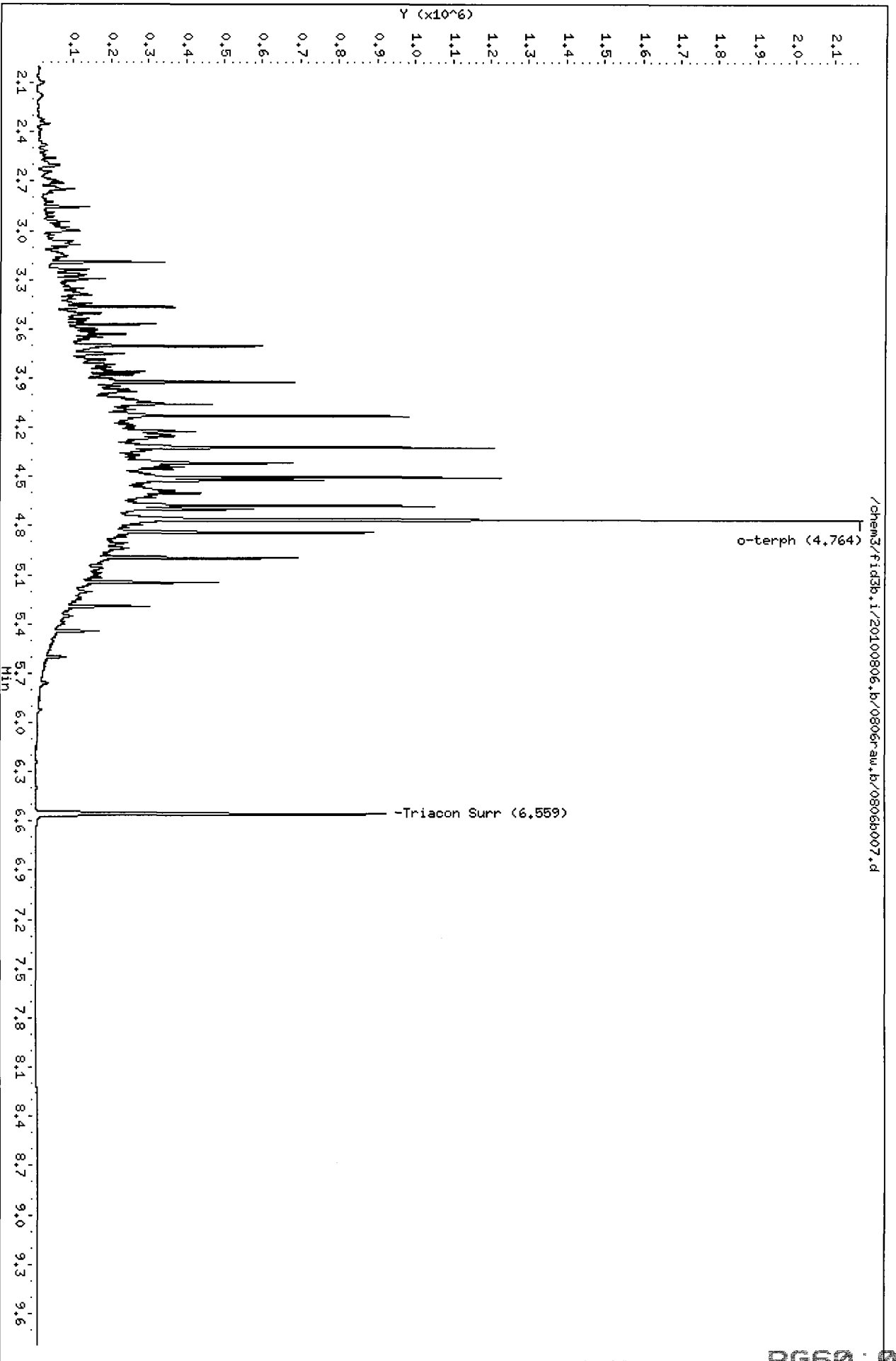
Sample Info: RG52LCSS1

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806b007.d
Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/10/2010
Macro: FID:3B073010

ARI ID: RG52LCSS1
Client ID: RG52LCSS1
Injection: 06-AUG-2010 15:21
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	3734040	136
C8	----				DIESEL (C12-C24)	27438940	1282
C10	2.856	0.000	140032	95065	M.OIL (C24-C38)	325403	27
C12	3.465	0.000	368388	255243	AK-102 (C10-C25)	30606479	1270
C14	3.925	0.001	682564	681813	AK-103 (C25-C36)	240538	27
C16	4.322	0.004	1205917	959768	OR.DIES (C10-C28)	30815280	1461
C18	4.679	0.005	1048996	882784	OR.MOIL (C28-C40)	46249	4
C20	4.998	0.003	694044	595238			
C22	5.293	0.001	303308	255645	STODDARD (C8-C12)	3734040	135
C24	5.600	-0.001	80470	90495			
C25	5.760	-0.002	33544	52146			
C26	5.921	0.000	13184	20927			
C28	6.241	0.000	2586	3013			
C32	6.847	-0.007	365	51			
C34	7.138	0.000	481	283	CREOSOT (C8-C22)	30215763	4724
Filter Peak	----						
C36	7.413	0.000	212	39	BUNKERC (C10-C38)	30851991	3570
o-terph	4.764	0.001	1858559	976074	JET-A (C10-C18)	22287247	1406
Triacon Surr	6.559	-0.003	923089	819080	IT.MOIL (C24-C40)	1154021	54

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	976074	49.0	108.8
Triacontane	819080	49.0	108.8

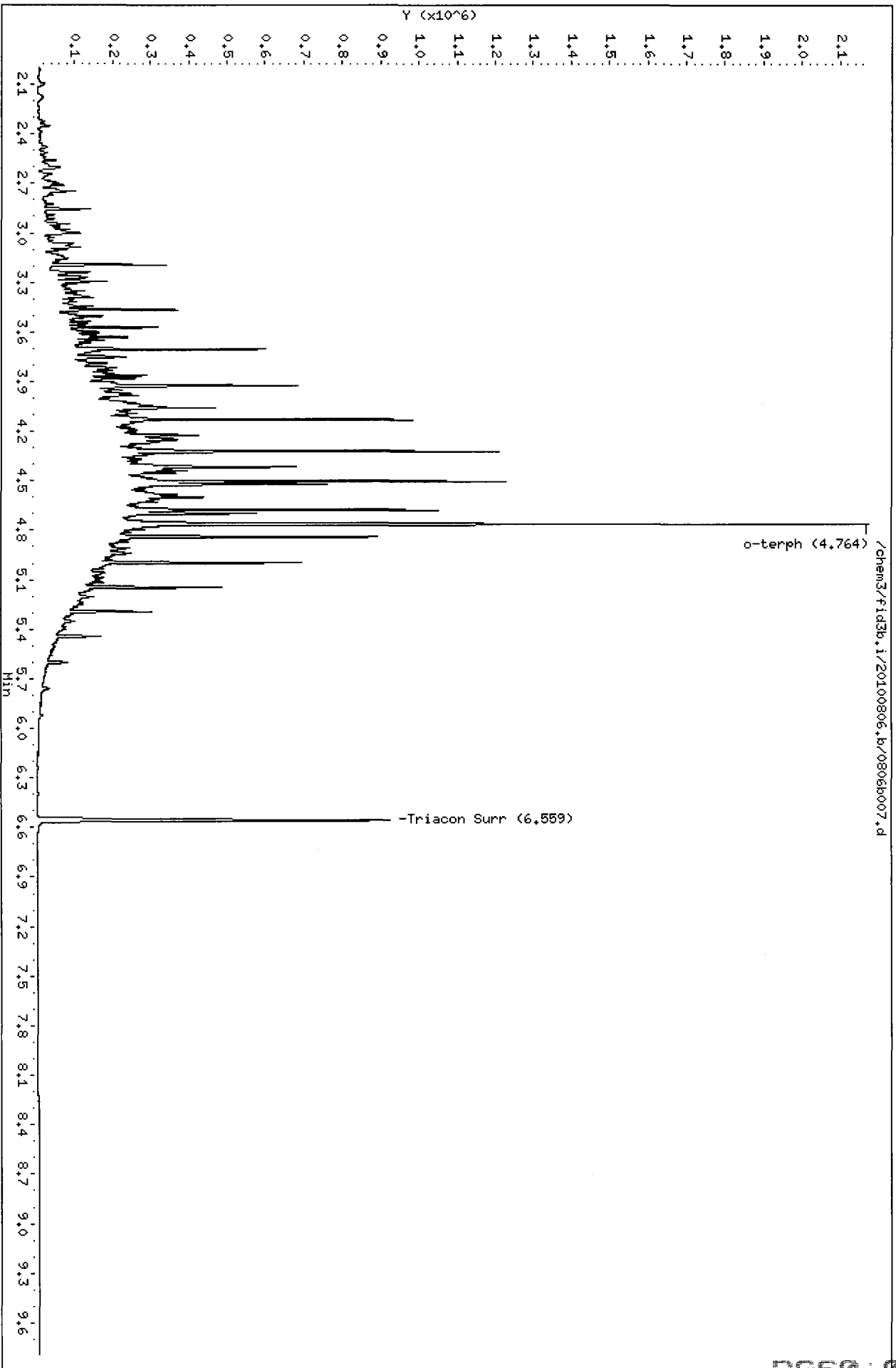
Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

M 8/10/10

Data File: /chem3/fid3b.i/20100806.b/0806b007.d
Date : 06-AUG-2010 15:24
Client ID: RG52LCSS1
Sample Info: RG52LCSS1

Column phase: RTX-1

Instrument: fid3b.i
Operator: HS
Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806raw.b/0806b008.d ARI ID: RG52LCSDS1
 Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m Client ID: RG52LCSDS1
 Instrument: fid3b.i Injection: 06-AUG-2010 15:40
 Operator: MS Dilution Factor: 1
 Report Date: 08/10/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	3926980	144
C8	----				DIESEL (C12-C24)	27976653	1307
C10	2.857	0.000	142732	100238	M.OIL (C24-C38)	353704	29
C12	3.467	0.002	402327	273203	AK-102 (C10-C25)	31263175	1297
C14	3.925	0.001	738644	631191	AK-103 (C25-C36)	2692221	30
C16	4.323	0.005	1266759	1046454	OR.DIES (C10-C28)	31496030	1493
C18	4.679	0.005	1058460	887915	OR.MOIL (C28-C40)	50879	5
C20	4.998	0.002	743305	603908			
C22	5.294	0.001	303242	262881	STODDARD (C8-C12)	3926980	142
C24	5.601	0.000	81369	94161			
C25	5.761	-0.002	36021	45352			
C26	5.922	0.001	14912	19873			
C28	6.244	0.004	2626	3846			
C32	6.843	-0.010	367	62			
C34	7.136	-0.002	543	420	CREOSOT (C8-C22)	30899556	4831
Filter Peak	----						
C36	7.416	0.003	317	142	BUNKERC (C10-C38)	31537124	3649
o-terph	4.765	0.002	2122100	1647748	JET-A (C10-C18)	23305202	1471
Triacon Surr	6.558	-0.004	923423	832589	IT.MOIL (C24-C40)	1196077	56

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
 AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1647748	82.7	183.7
Triacotane	832589	49.8	110.6

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

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Data File: /chem3/fid3b.i/20100806.b/0806raw.b/0806008.d
Date: 06-AUG-2010 15:40

Client ID: RG52LCSDS1

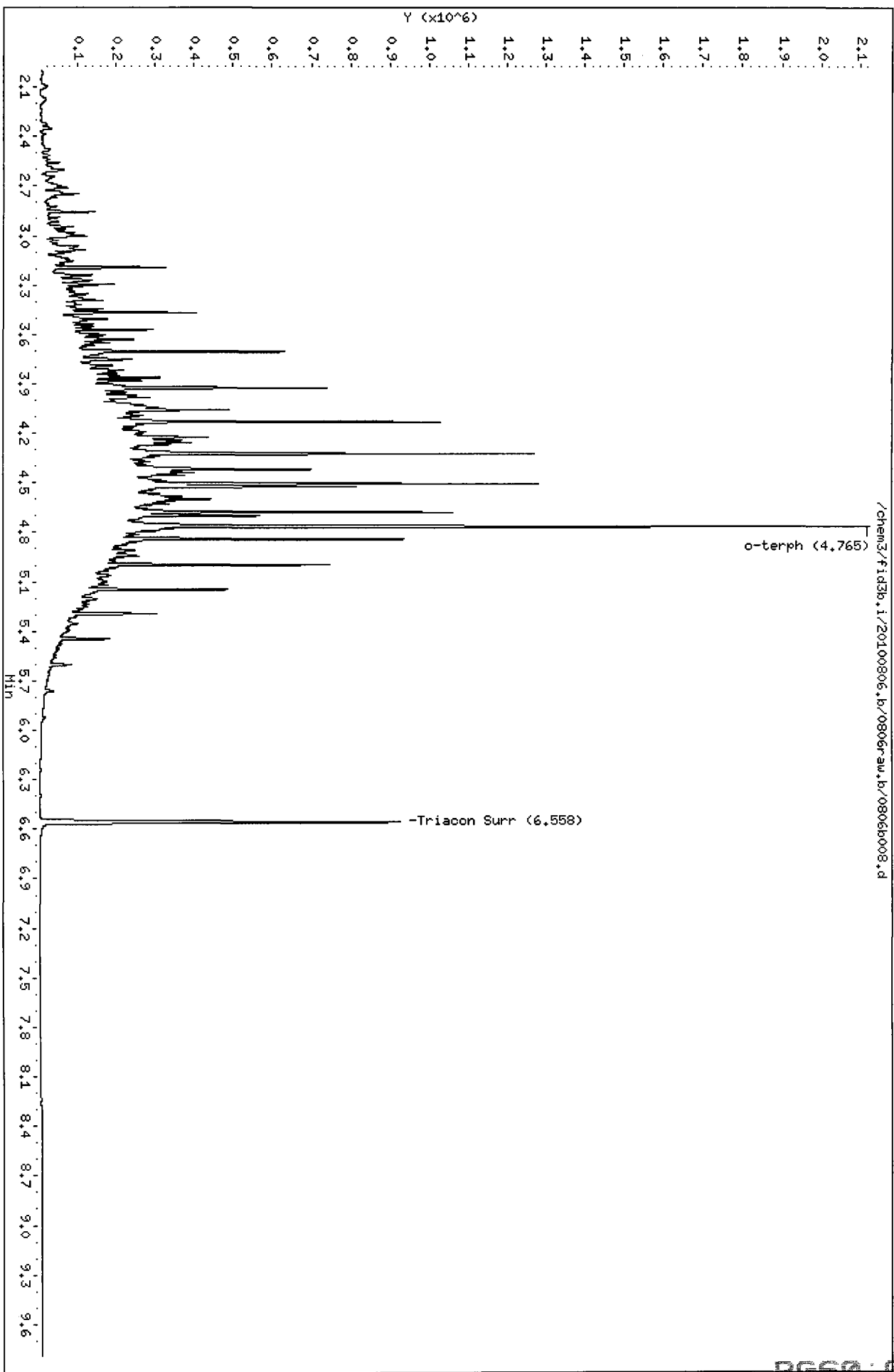
Sample Info: RG52LCSDS1

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806b008.d
Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/10/2010
Macro: FID:3B073010

ARI ID: RG52LCSDS1
Client ID: RG52LCSDS1
Injection: 06-AUG-2010 15:40
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	3926980	144
C8	----				DIESEL (C12-C24)	28654095	1339
C10	2.857	0.000	142732	100238	M.OIL (C24-C38)	353704	29
C12	3.467	0.002	402327	273203	AK-102 (C10-C25)	31940617	1325
C14	3.925	0.001	738644	631191	AK-103 (C25-C36)	269221	30
C16	4.323	0.005	1266759	1046454	OR.DIES (C10-C28)	32173472	1526
C18	4.679	0.005	1058460	887915	OR.MOIL (C28-C40)	50879	5
C20	4.998	0.002	743305	603908			
C22	5.294	0.001	303242	262881	STODDARD (C8-C12)	3926980	142
C24	5.601	0.000	81369	94161			
C25	5.761	-0.002	36021	45352			
C26	5.922	0.001	14912	19873			
C28	6.244	0.004	2626	3846			
C32	6.843	-0.010	367	62			
C34	7.136	-0.002	543	420	CREOSOT (C8-C22)	31576998	4937
Filter Peak	----						
C36	7.416	0.003	317	142	BUNKERC (C10-C38)	32214567	3727
o-terph	4.765	0.002	1786905	975972	JET-A (C10-C18)	23305202	1471
Triacon Surr	6.558	-0.004	923423	832589	IT.MOIL (C24-C40)	1196077	56

Range Times: NW Diesel (3.515 - 5.651) NW Gas (0.976 - 3.515) NW M.Oil (5.651 - 7.720)
AK102 (2.806 - 5.712) AK103 (5.712 - 7.463) Jet A (2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	975972	49.0	108.8
Triacantane	832589	49.8	110.6

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MS 8/10/10

Data File: /chem3/fid3b.i/20100806.b/0806b008.d
Date : 06-AUG-2010 15:40

Client ID: RG52LCSDS1

Sample Info: RG52LCSDS1

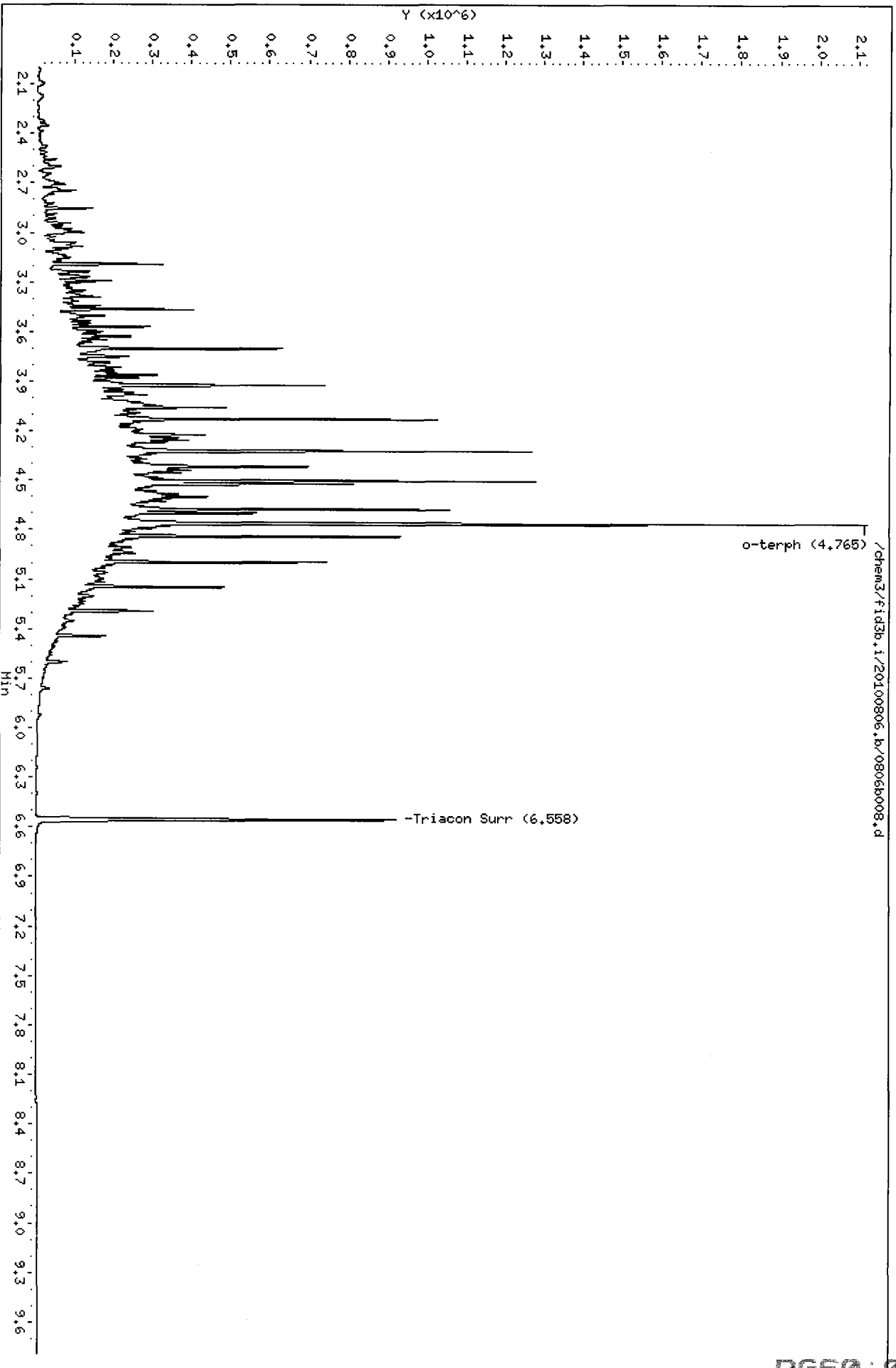
Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00

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Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806raw.b/0806b009.d ARI ID: DIESEL#2
 Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m Client ID: DIESEL#2
 Instrument: fid3b.i Injection: 06-AUG-2010 16:00
 Operator: MS Dilution Factor: 1
 Report Date: 08/10/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	824206	30
C8	----				DIESEL (C12-C24)	5187849	242
C10	2.857	0.000	28588	20730	M.OIL (C24-C38)	75197	6
C12	3.465	0.000	70442	48678	AK-102 (C10-C25)	5852428	243
C14	3.923	-0.001	145894	129059	AK-103 (C25-C36)	57327	6
C16	4.319	0.001	240002	189733	OR.DIES (C10-C28)	5894689	280
C18	4.674	0.000	220008	176848	OR.MOIL (C28-C40)	35599	3
C20	4.995	0.000	128975	107009			
C22	5.294	0.002	52025	53460	STODDARD (C8-C12)	824206	30
C24	5.604	0.003	10497	12202			
C25	5.768	0.006	3778	3589			
C26	5.925	0.004	1336	538			
C28	6.245	0.004	253	174			
C32	6.848	-0.006	56	9			
C34	7.135	-0.003	131	43	CREOSOT (C8-C22)	5829241	911
Filter Peak	----						
C36	7.411	-0.002	309	65	BUNKERC (C10-C38)	5917393	685
o-terph	4.763	0.000	1795746	1064294	JET-A (C10-C18)	4448424	281
Triacon Surr	6.562	-0.001	79	16	IT.MOIL (C24-C40)	88108	4

Range Times: NW Diesel (3.515 - 5.651) NW Gas (0.976 - 3.515) NW M.Oil (5.651 - 7.720)
 AK102 (2.806 - 5.712) AK103 (5.712 - 7.463) Jet A (2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1064294	53.4	118.6
Triacontane	16	0.0	0.0

M 8/10/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b,i/20100806,b/0806raw,b/0806b009,d
Date : 06-AUG-2010 15:00

Client ID: DIESEL#2

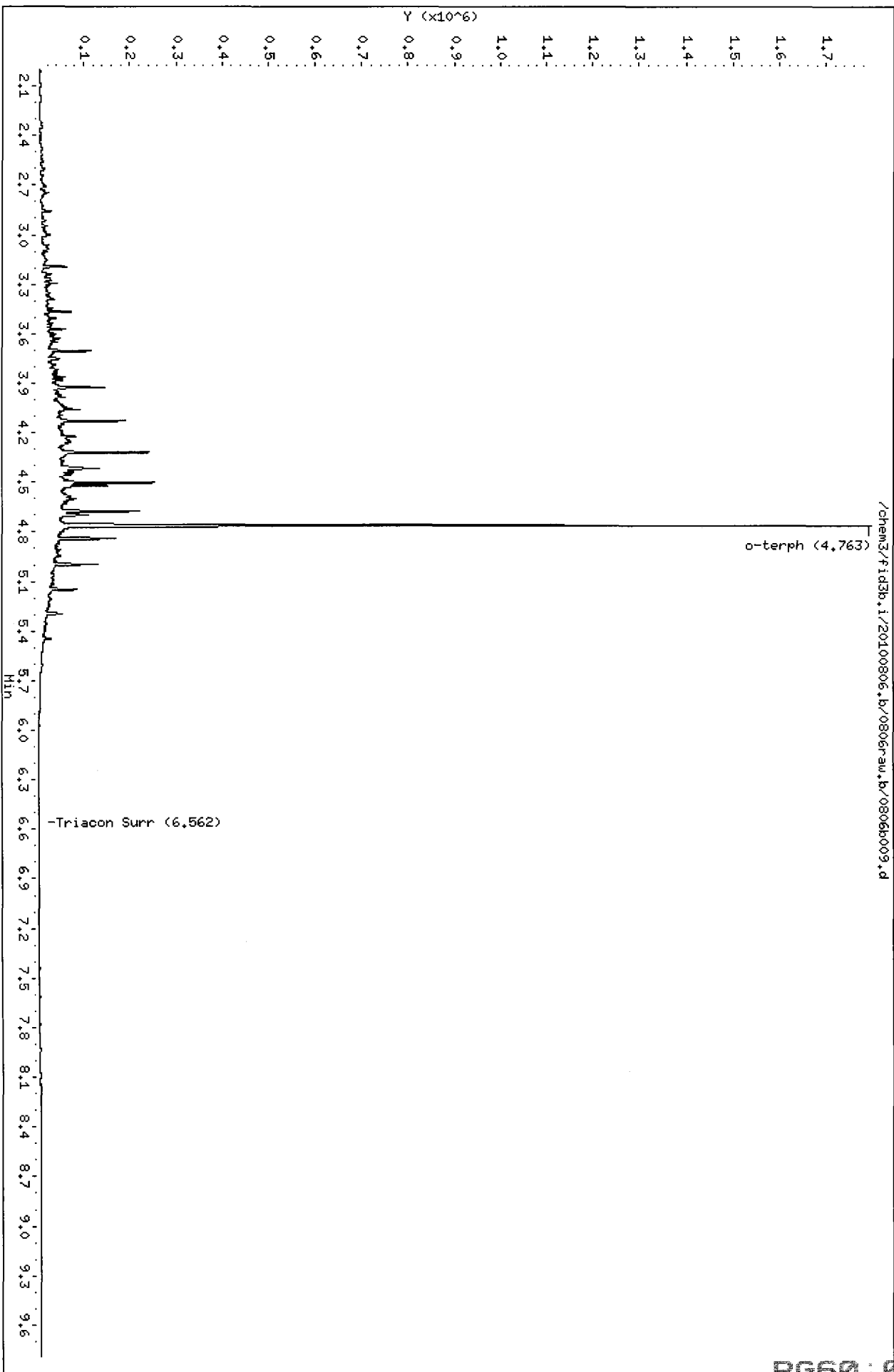
Sample Info: DIESEL#2

Column phase: RTX-1

Instrument: fid3b,i

Operator: MS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806b009.d
Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/10/2010
Macro: FID:3B073010

ARI ID: DIESEL#2
Client ID: DIESEL#2
Injection: 06-AUG-2010 16:00
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	824206	30
C8	----				DIESEL (C12-C24)	5355345	250
C10	2.857	0.000	28588	20730	M.OIL (C24-C38)	75197	6
C12	3.465	0.000	70442	48678	AK-102 (C10-C25)	6019924	250
C14	3.923	-0.001	145894	129059	AK-103 (C25-C36)	57327	6
C16	4.319	0.001	240002	189733	OR.DIES (C10-C28)	6062185	287
C18	4.674	0.000	220008	176848	OR.MOIL (C28-C40)	35599	3
C20	4.995	0.000	128975	107009			
C22	5.294	0.002	52025	53460	STODDARD (C8-C12)	824206	30
C24	5.604	0.003	10497	12202			
C25	5.768	0.006	3778	3589			
C26	5.925	0.004	1336	538			
C28	6.245	0.004	253	174			
C32	6.848	-0.006	56	9			
C34	7.135	-0.003	131	43	CREOSOT (C8-C22)	5996737	938
Filter Peak	----						
C36	7.411	-0.002	309	65	BUNKERC (C10-C38)	6084889	704
o-terph	4.763	0.000	1730453	897839	JET-A (C10-C18)	4448424	281
Triacon Surr	6.562	-0.001	79	16	IT.MOIL (C24-C40)	88108	4

Range Times: NW Diesel (3.515 - 5.651) NW Gas (0.976 - 3.515) NW M.Oil (5.651 - 7.720)
AK102 (2.806 - 5.712) AK103 (5.712 - 7.463) Jet A (2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	897839	45.0	100.1
Triacantane	16	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS
 1. Peak not found
 2. Poor Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other
 Analyst *[Signature]* Date 8/10/10

Data File: /chem3/fid3b.i/20100806.b/0806b009.d
Date: 06-AUG-2010 16:00

Client ID: DIESEL#2

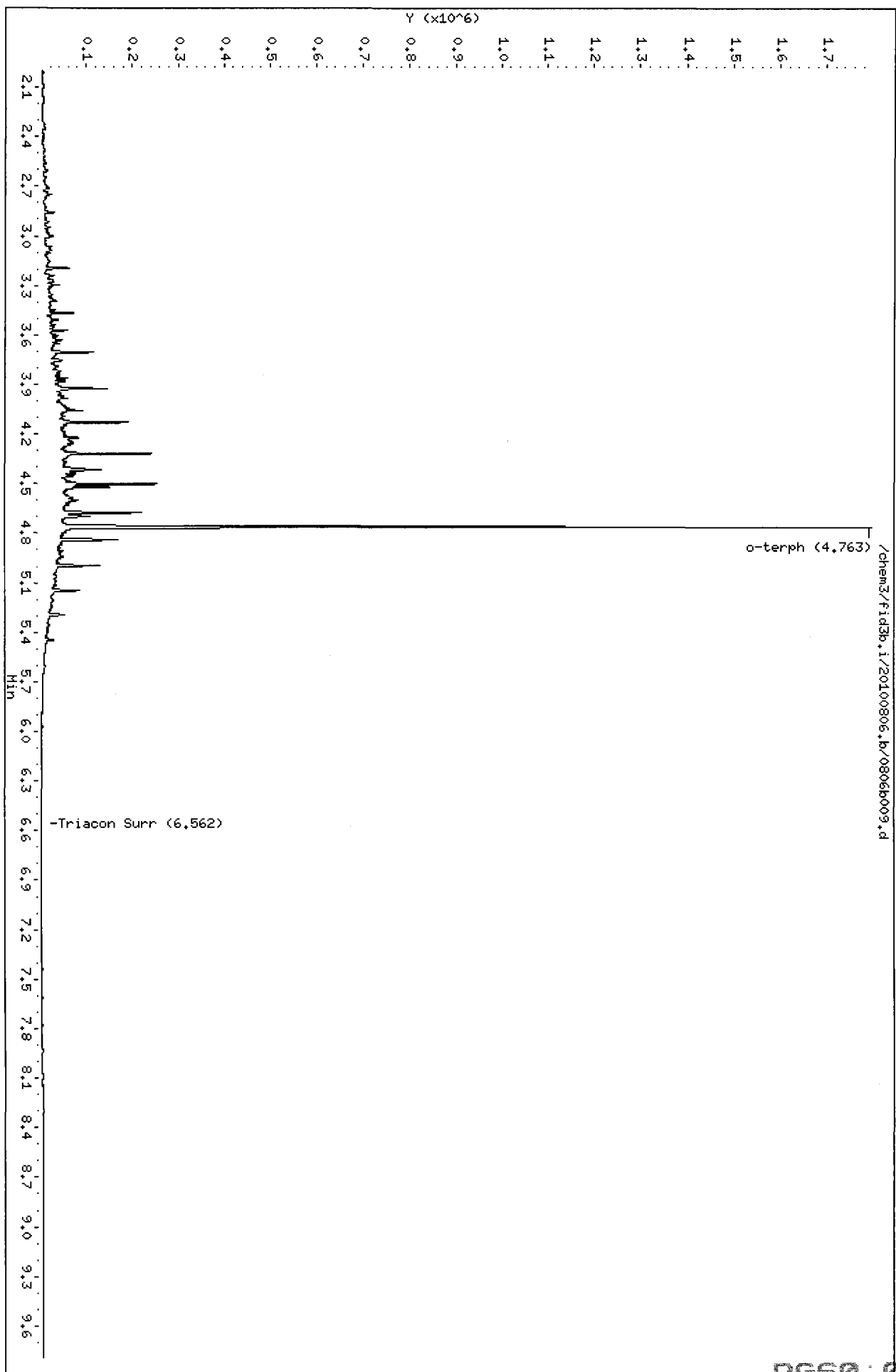
Sample Info: DIESEL#2

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806raw.b/0806b010.d ARI ID: MOIL#2
 Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m Client ID: MOIL#2
 Instrument: fid3b.i Injection: 06-AUG-2010 16:19
 Operator: MS Dilution Factor: 1
 Report Date: 08/10/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	51675	2
C8	----				DIESEL (C12-C24)	722494	34
C10	2.857	0.001	1135	1235	M.OIL (C24-C38)	6009707	497
C12	3.470	0.005	724	415	AK-102 (C10-C25)	883343	37
C14	3.923	-0.001	544	147	AK-103 (C25-C36)	5184185	580
C16	4.316	-0.003	391	171	OR.DIES (C10-C28)	2302806	109
C18	4.668	-0.006	707	234	OR.MOIL (C28-C40)	4960419	440
C20	4.991	-0.005	4425	2003			
C22	5.293	0.000	16060	3088	STODDARD (C8-C12)	51675	2
C24	5.602	0.001	28350	6660			
C25	5.765	0.002	36916	11312			
C26	5.923	0.002	41281	17720			
C28	6.247	0.006	52532	34678			
C32	6.854	0.001	61681	22975			
C34	7.142	0.004	67191	63396	CREOSOT (C8-C22)	333743	52
Filter Peak	----						
C36	7.410	-0.003	54933	19136	BUNKERC (C10-C38)	6768073	783
o-terph	4.760	-0.004	3253	3797	JET-A (C10-C18)	78114	5
Triacon Surr	6.559	-0.003	1026892	972017	IT.MOIL (C24-C40)	7476877	348

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
 AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	3797	0.2	0.4
Triacantane	972017	58.1	129.1

MS 8/10/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100806.b/0806rsw.b/0806p010.d
Date: 06-AUG-2010 16:19

Client ID: H01L#2

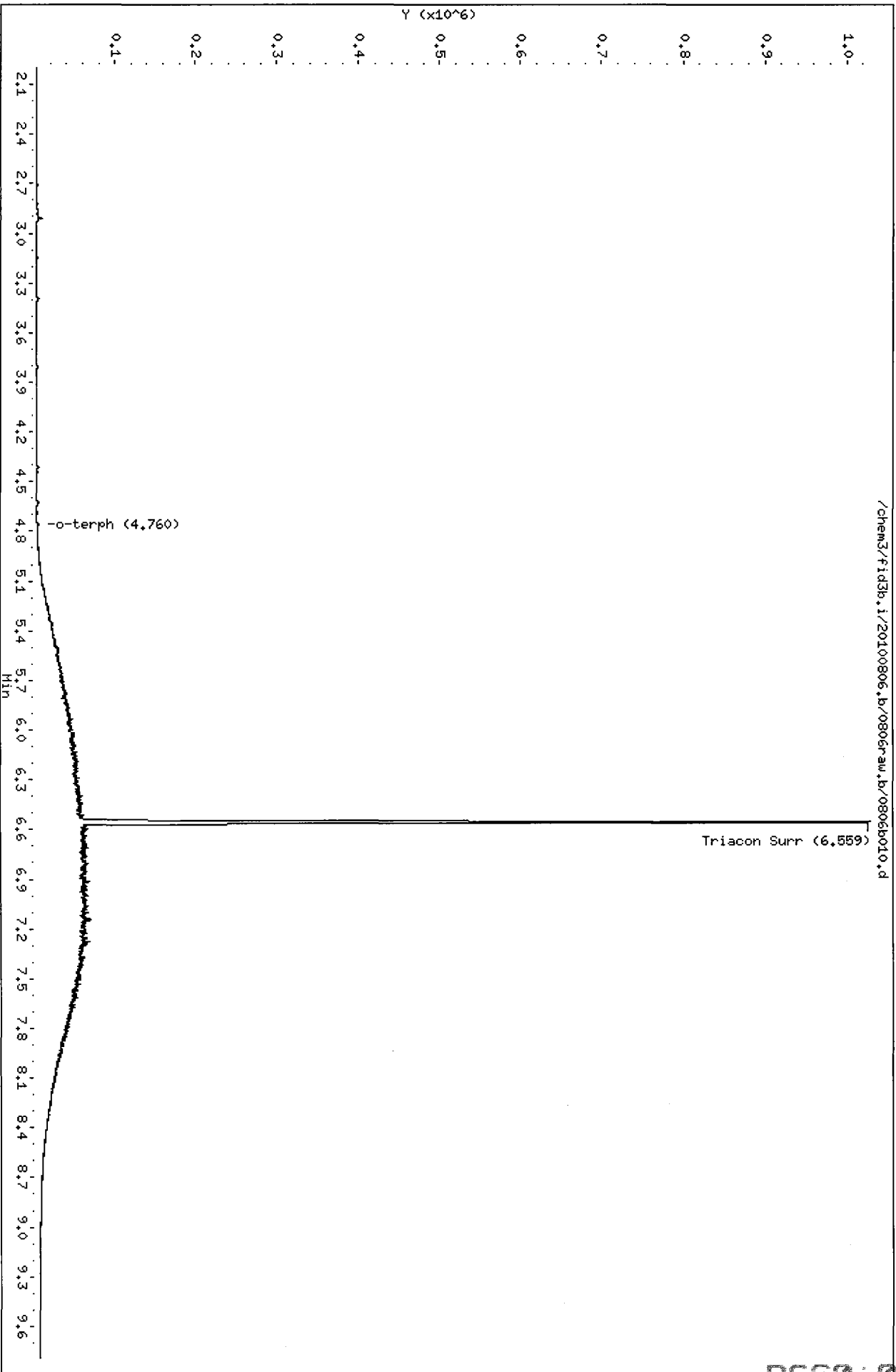
Sample Info: H01L#2

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



RG60: 00982

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806b010.d
Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/10/2010
Macro: FID:3B073010

ARI ID: MOIL#2
Client ID: MOIL#2
Injection: 06-AUG-2010 16:19
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	51675	2
C8	----				DIESEL (C12-C24)	722494	34
C10	2.857	0.001	1135	1235	M.OIL (C24-C38)	6170541	511
C12	3.470	0.005	724	415	AK-102 (C10-C25)	883343	37
C14	3.923	-0.001	544	147	AK-103 (C25-C36)	5345019	598
C16	4.316	-0.003	391	171	OR.DIES (C10-C28)	2302806	109
C18	4.668	-0.006	707	234	OR.MOIL (C28-C40)	5121252	454
C20	4.991	-0.005	4425	2003			
C22	5.293	0.000	16060	3088	STODDARD (C8-C12)	51675	2
C24	5.602	0.001	28350	6660			
C25	5.765	0.002	36916	11312			
C26	5.923	0.002	41281	17720			
C28	6.247	0.006	52532	34678			
C32	6.854	0.001	61681	22975			
C34	7.142	0.004	67191	63396	CREOSOT (C8-C22)	333743	52
Filter Peak	----						
C36	7.410	-0.003	54933	19136	BUNKERC (C10-C38)	6928906	802
o-terph	4.760	-0.004	3253	3797	JET-A (C10-C18)	78114	5
Triacon Surr	6.559	-0.003	967188	812314	IT.MOIL (C24-C40)	7478007	348

Range Times: NW Diesel (3.515 - 5.651) NW Gas (0.976 - 3.515) NW M.Oil (5.651 - 7.720)
AK102 (2.806 - 5.712) AK103 (5.712 - 7.463) Jet A (2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	3797	0.2	0.4
Triacantane	812314	48.6	107.9

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst: *[Signature]* Date: 8/10/10

Data File: /chem3/fid3b.i/20100806.b/0806b010.d
Date: 06-AUG-2010 16:19

Client ID: M01L#2

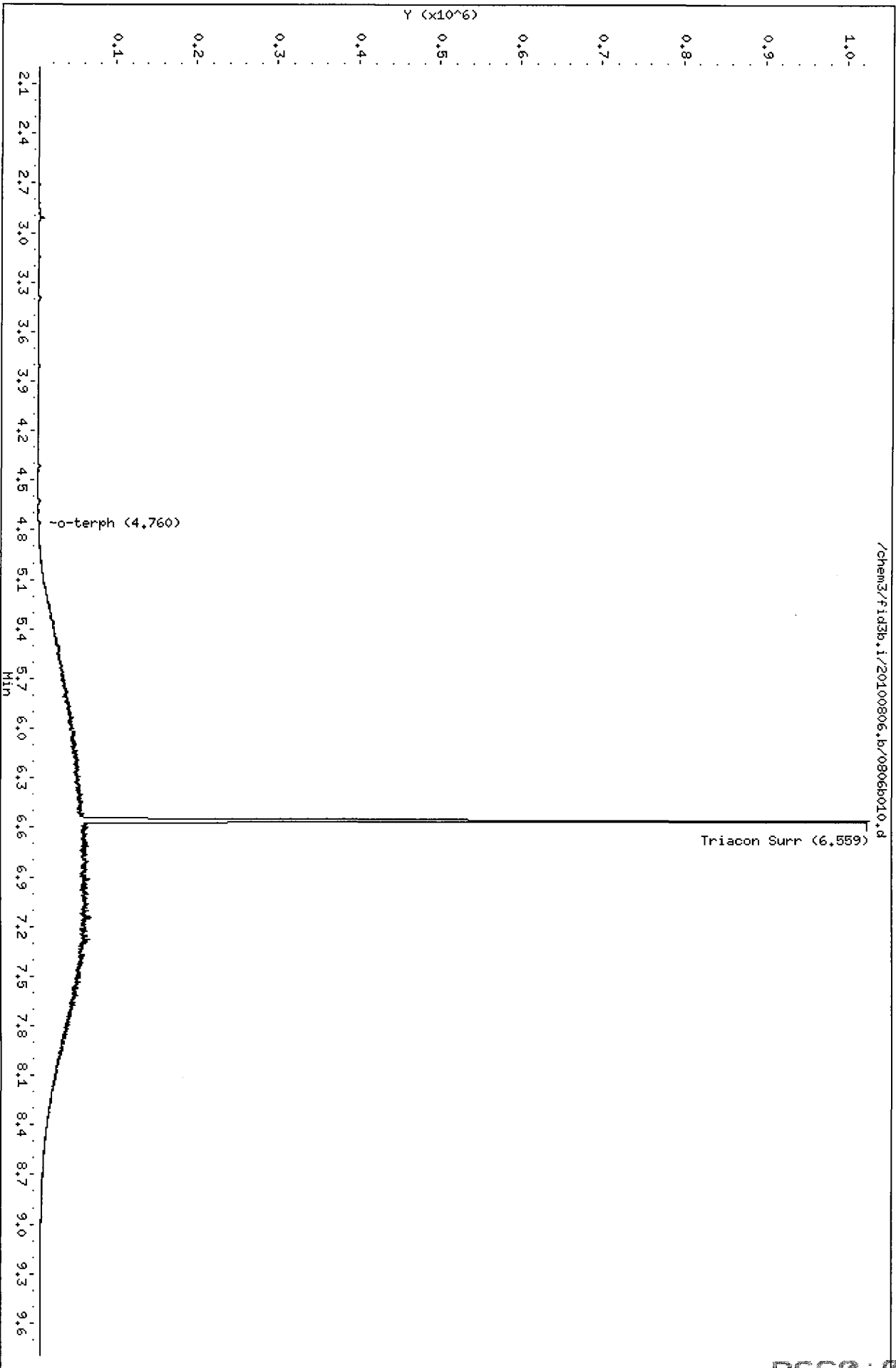
Sample Info: M01L#2

Column phase: RTX-1

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00



RG60-00084

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806raw.b/0806b011.d ARI ID: RG60C
 Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m Client ID: PSB13-2-4-072910
 Instrument: fid3b.i Injection: 06-AUG-2010 16:38
 Operator: MS Dilution Factor: 10
 Report Date: 08/10/2010
 Macro: FID:3B073010

FID:3B RESULTS

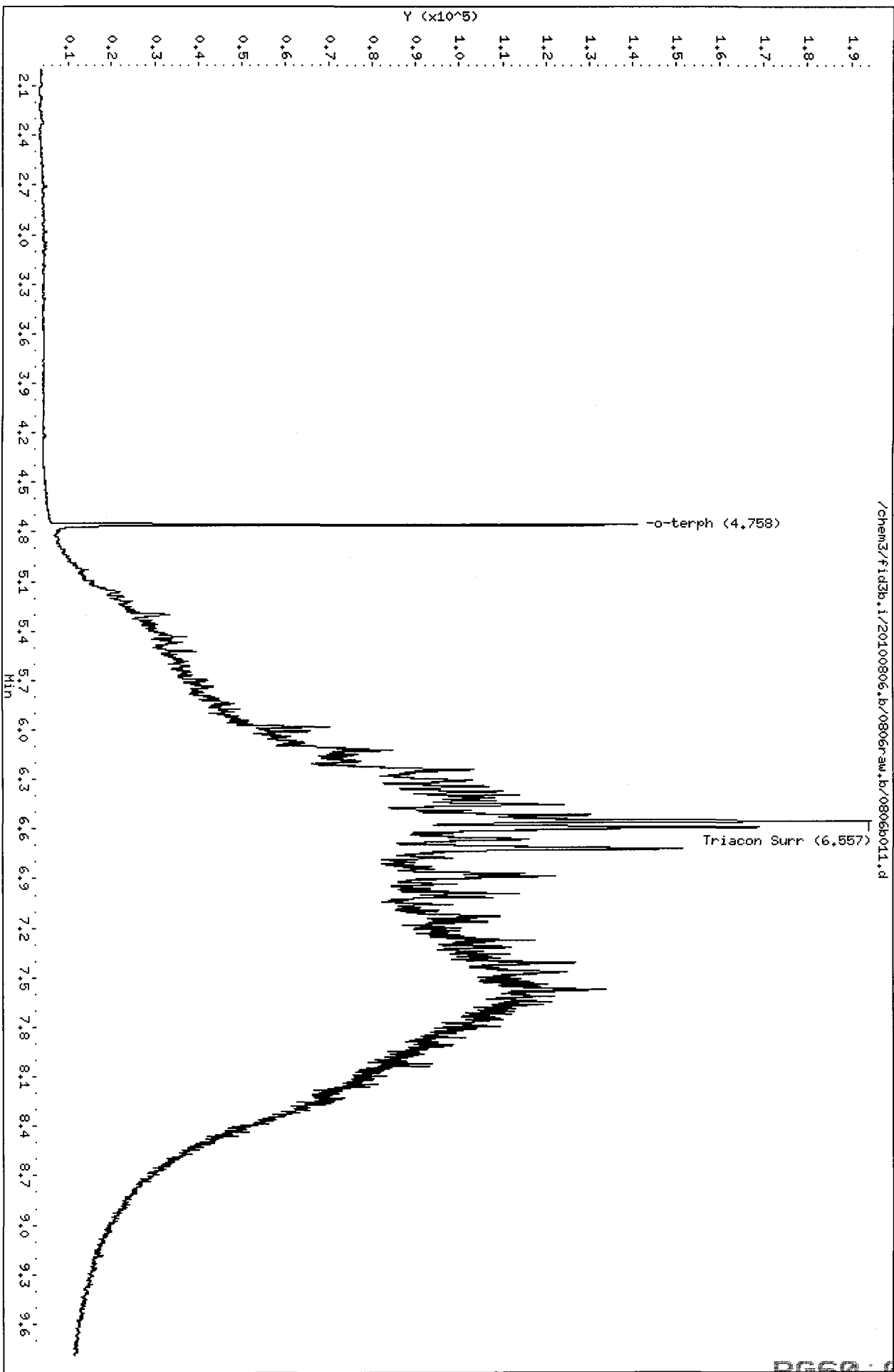
Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	59278	2
C8	----				DIESEL (C12-C24)	1036674	48
C10	2.856	0.000	946	981	M.OIL (C24-C38)	10177524	842
C12	3.464	-0.002	767	164	AK-102 (C10-C25)	1201238	50
C14	3.926	0.002	856	543	AK-103 (C25-C36)	8348958	935
C16	4.317	-0.002	928	146	OR.DIES (C10-C28)	3105502	147
C18	4.672	-0.002	2140	417	OR.MOIL (C28-C40)	9503390	843
C20	4.992	-0.004	8784	7618			
C22	5.288	-0.004	23596	14497	STODDARD (C8-C12)	59278	2
C24	5.603	0.002	31924	5625			
C25	5.764	0.002	37868	8845			
C26	5.919	-0.002	45080	12368			
C28	6.242	0.002	100248	23274			
C32	6.856	0.002	86812	18676			
C34	7.135	-0.003	106444	75645	CREOSOT (C8-C22)	540614	85
Filter Peak	----						
C36	7.414	0.002	123613	42776	BUNKERC (C10-C38)	11252632	1302
o-terph	4.758	-0.005	138076	87632	JET-A (C10-C18)	118090	7
Triacon Surr	6.557	-0.006	191464	267567	IT.MOIL (C24-C40)	11801351	549

Range Times: NW Diesel (3.515 - 5.651) NW Gas (0.976 - 3.515) NW M.Oil (5.651 - 7.720)
 AK102 (2.806 - 5.712) AK103 (5.712 - 7.463) Jet A (2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	87632	4.4	97.7
Triacantane	267567	16.0	355.5

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MS 8/10/10



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806b011.d
Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/10/2010
Macro: FID:3B073010

ARI ID: RG60C
Client ID: PSB13-2-4-072910
Injection: 06-AUG-2010 16:38
Dilution Factor: 10

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	59278	2
C8	----				DIESEL (C12-C24)	1067639	50
C10	2.856	0.000	946	981	M.OIL (C24-C38)	10395960	860
C12	3.464	-0.002	767	164	AK-102 (C10-C25)	1232203	51
C14	3.926	0.002	856	543	AK-103 (C25-C36)	8567394	959
C16	4.317	-0.002	928	146	OR.DIES (C10-C28)	3136467	149
C18	4.672	-0.002	2140	417	OR.MOIL (C28-C40)	9721826	862
C20	4.992	-0.004	8784	7618			
C22	5.288	-0.004	23596	14497	STODDARD (C8-C12)	59278	2
C24	5.603	0.002	31924	5625			
C25	5.764	0.002	37868	8845			
C26	5.919	-0.002	45080	12368			
C28	6.242	0.002	100248	23274			
C32	6.856	0.002	86812	18676			
C34	7.135	-0.003	106444	75645	CREOSOT (C8-C22)	571578	89
Filter Peak	----						
C36	7.414	0.002	123613	42776	BUNKERC (C10-C38)	11502033	1331
o-terph	4.758	-0.005	133683	74331	JET-A (C10-C18)	118090	7
Triacon Surr	6.557	-0.006	79291	51234	IT.MOIL (C24-C40)	11803455	549

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

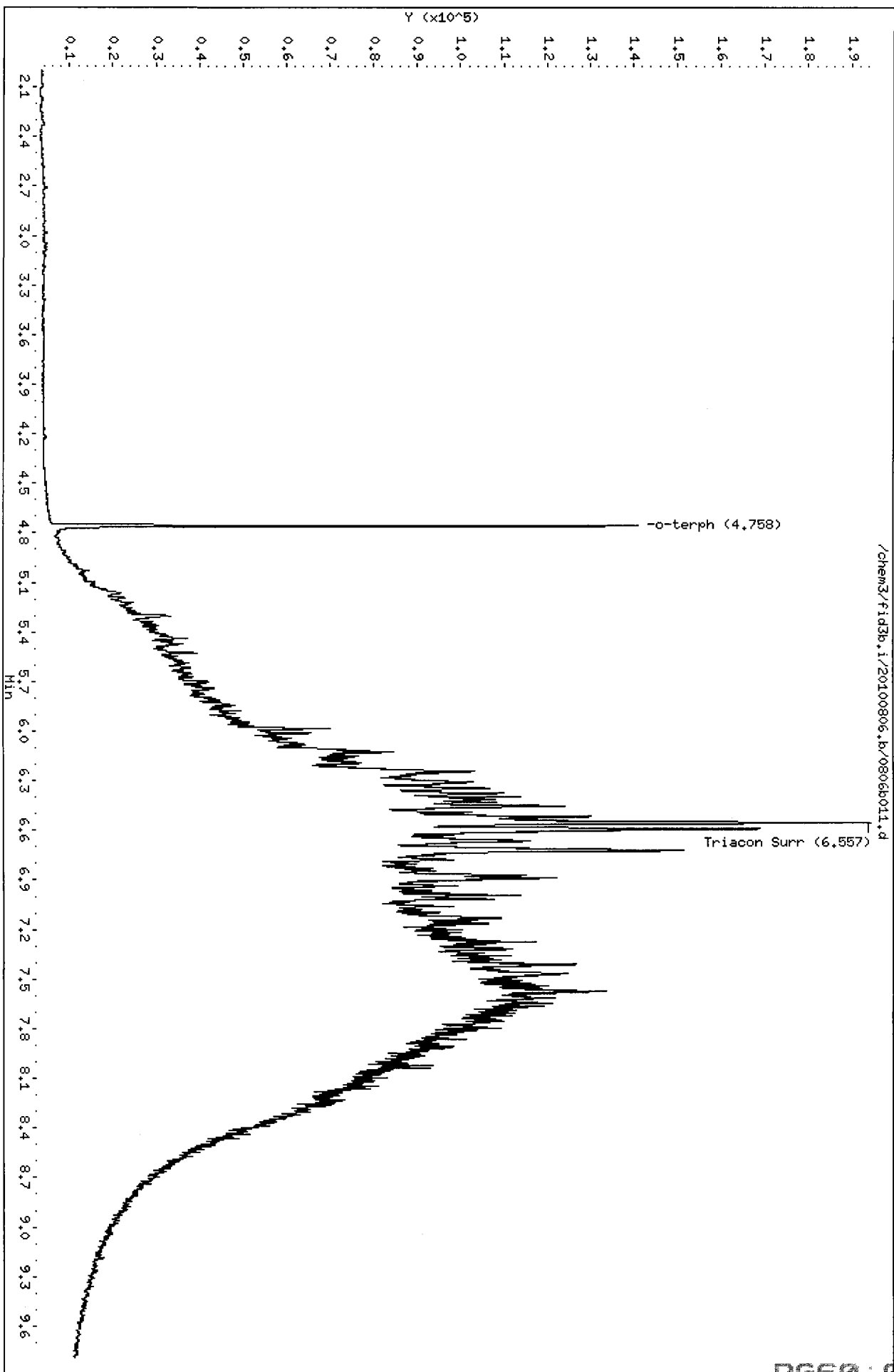
Surrogate	Area	Amount	%Rec
o-Terphenyl	74331	3.7	82.9
Triacantane	51234	3.1	68.1

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst Ma Date 8/10/10



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806raw.b/0806b016.d ARI ID: RG60A
 Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m Client ID: PSB13-0-0.5-072910
 Instrument: fid3b.i Injection: 06-AUG-2010 18:15
 Operator: MS Dilution Factor: 1
 Report Date: 08/10/2010
 Macro: FID:3B073010

FID:3B RESULTS

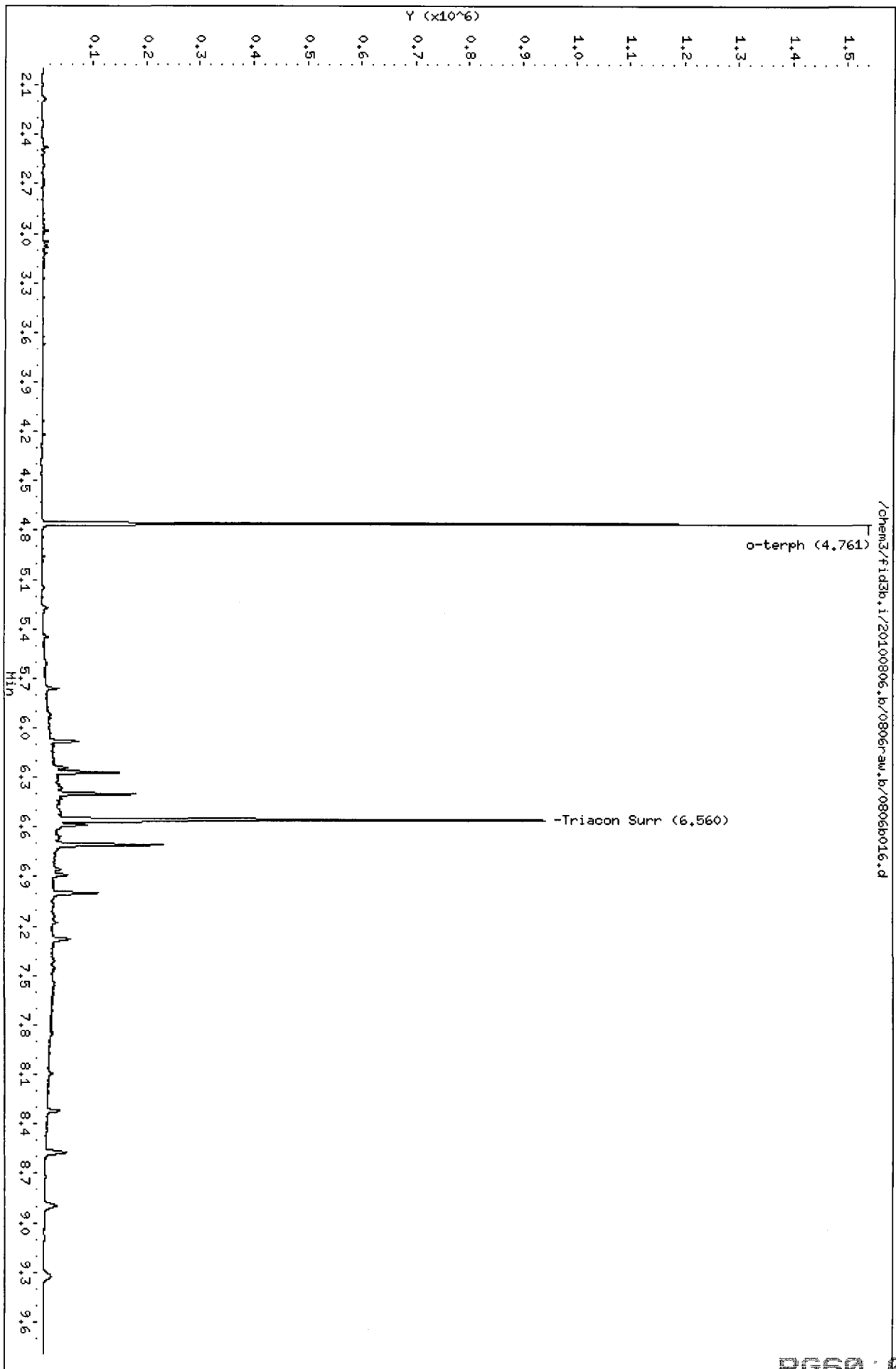
Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	251612	9
C8	----				DIESEL (C12-C24)	413131	19
C10	2.857	0.001	3347	3928	M.OIL (C24-C38)	3502600	290
C12	3.475	0.010	2929	2524	AK-102 (C10-C25)	599990	25
C14	3.918	-0.006	2031	708	AK-103 (C25-C36)	3116797	349
C16	4.319	0.001	2618	4502	OR.DIES (C10-C28)	1416351	67
C18	4.675	0.001	2830	2843	OR.MOIL (C28-C40)	2931806	260
C20	4.998	0.003	4299	3277			
C22	5.293	0.001	8896	10887	STODDARD (C8-C12)	251612	9
C24	5.601	0.000	13118	20020			
C25	5.761	-0.001	35584	35203			
C26	5.921	0.000	21040	18676			
C28	6.240	-0.001	49296	20073			
C32	6.853	-0.001	38811	42950			
C34	7.138	0.000	29439	20871	CREOSOT (C8-C22)	528079	83
Filter Peak	----						
C36	7.412	0.000	27210	17946	BUNKERC (C10-C38)	4069572	471
o-terph	4.761	-0.002	1544394	903950	JET-A (C10-C18)	307322	19
Triacon Surr	6.560	-0.002	940232	827970	IT.MOIL (C24-C40)	4609155	214

Range Times: NW Diesel (3.515 - 5.651) NW Gas (0.976 - 3.515) NW M.Oil (5.651 - 7.720)
 AK102 (2.806 - 5.712) AK103 (5.712 - 7.463) Jet A (2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	903950	45.3	100.8
Triacontane	827970	49.5	110.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

M 8/10/10



RG60 00990

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806b016.d
Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/10/2010
Macro: FID:3B073010

ARI ID: RG60A
Client ID: PSB13-0-0.5-072910
Injection: 06-AUG-2010 18:15
Dilution Factor: 1

FID:3B RESULTS

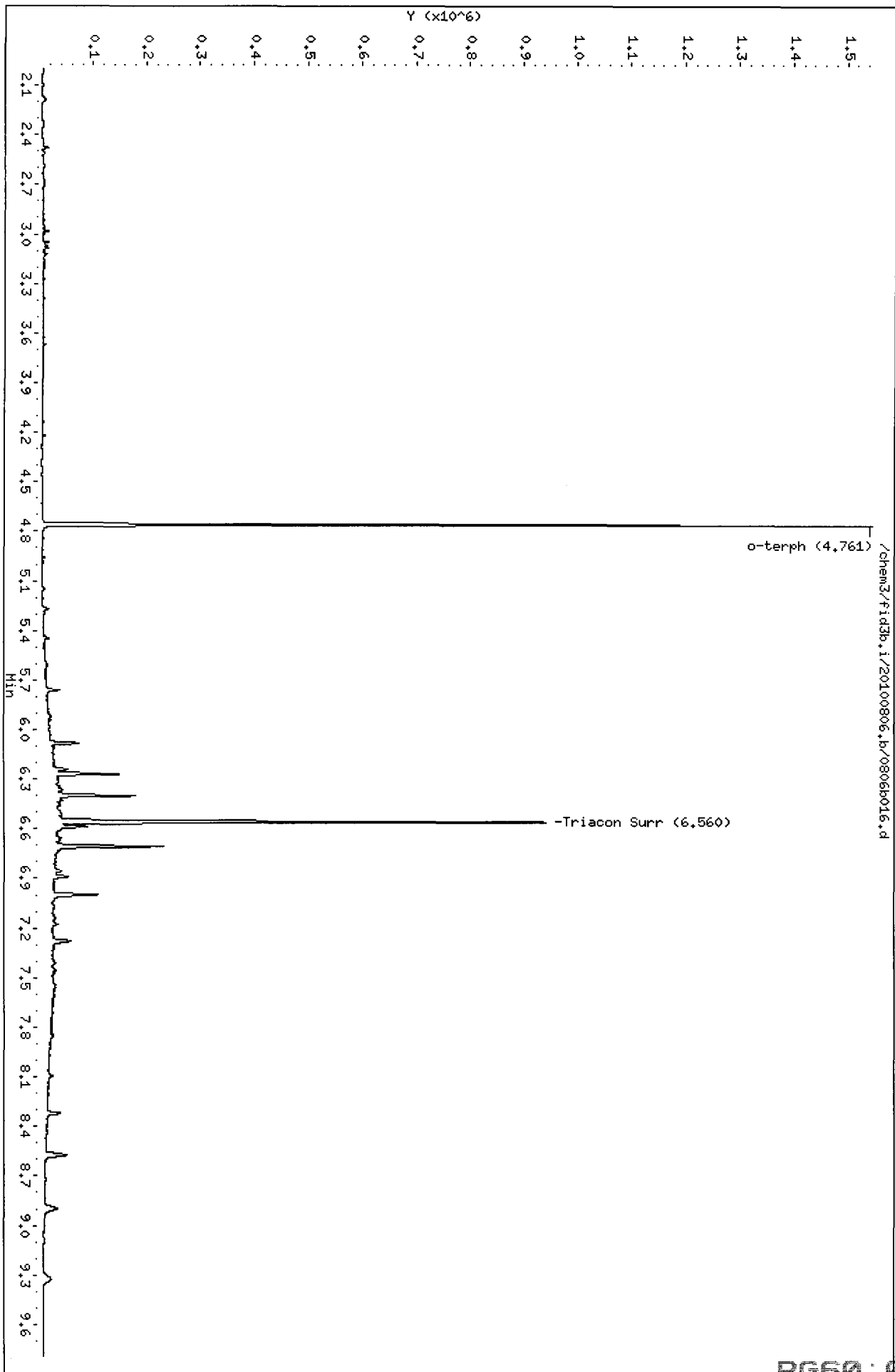
Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	-----				GAS (Tol-C12)	251612	9
C8	-----				DIESEL (C12-C24)	413131	19
C10	2.857	0.001	3347	3928	M.OIL (C24-C38)	3608818	299
C12	3.475	0.010	2929	2524	AK-102 (C10-C25)	599990	25
C14	3.918	-0.006	2031	708	AK-103 (C25-C36)	3223015	361
C16	4.319	0.001	2618	4502	OR.DIES (C10-C28)	1416351	67
C18	4.675	0.001	2830	2843	OR.MOIL (C28-C40)	3038024	269
C20	4.998	0.003	4299	3277			
C22	5.293	0.001	8896	10887	STODDARD (C8-C12)	251612	9
C24	5.601	0.000	13118	20020			
C25	5.761	-0.001	35584	35203			
C26	5.921	0.000	21040	18676			
C28	6.240	-0.001	49296	20073			
C32	6.853	-0.001	38811	42950			
C34	7.138	0.000	29439	20871	CREOSOT (C8-C22)	528079	83
Filter Peak	-----						
C36	7.412	0.000	27210	17946	BUNKERC (C10-C38)	4175789	483
o-terph	4.761	-0.002	1544394	903950	JET-A (C10-C18)	307322	19
Triacon Surr	6.560	-0.002	899429	722542	IT.MOIL (C24-C40)	4609945	215

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	903950	45.3	100.8
Triacantane	722542	43.2	96.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS
 1. Peak not found
 2. Poor Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other
 Analyst: MS Date: 8/10/10



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806raw.b/0806b018.d ARI ID: RG60B
 Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m Client ID: PSB13-1.5-2-072910
 Instrument: fid3b.i Injection: 06-AUG-2010 18:53
 Operator: MS Dilution Factor: 1
 Report Date: 08/10/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	253070	9
C8	----				DIESEL (C12-C24)	1039905	49
C10	2.856	0.000	3490	3038	M.OIL (C24-C38)	5827745	482
C12	3.456	-0.009	2650	2514	AK-102 (C10-C25)	1299491	54
C14	3.920	-0.004	2193	686	AK-103 (C25-C36)	4872650	545
C16	4.322	0.004	3017	3437	OR.DIES (C10-C28)	2601055	123
C18	4.676	0.002	5606	6292	OR.MOIL (C28-C40)	5110761	453
C20	4.997	0.002	9381	7091			
C22	5.295	0.003	22350	8325	STODDARD (C8-C12)	253070	9
C24	5.600	-0.001	30959	12403			
C25	5.760	-0.002	34438	26427			
C26	5.920	-0.001	35500	10905			
C28	6.241	0.000	63644	15787			
C32	6.855	0.002	55418	25205			
C34	7.135	-0.003	56133	24607	CREOSOT (C8-C22)	813903	127
Filter Peak	----						
C36	7.412	-0.001	54403	10706	BUNKERC (C10-C38)	7020775	812
o-terph	4.761	-0.002	1426508	877413	JET-A (C10-C18)	349647	22
Triacon Surr	6.559	-0.003	855913	885241	IT.MOIL (C24-C40)	7404027	345

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
 AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	877413	44.0	97.8
Triacontane	885241	52.9	117.6

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Handwritten signature: Mas 8/10/10

Data File: /chem3/fid3b.i/20100806.b/0806rsw.b/0806b018.d
Date: 06-AUG-2010 18:53

Client ID: PSB13-1,5-2-072910

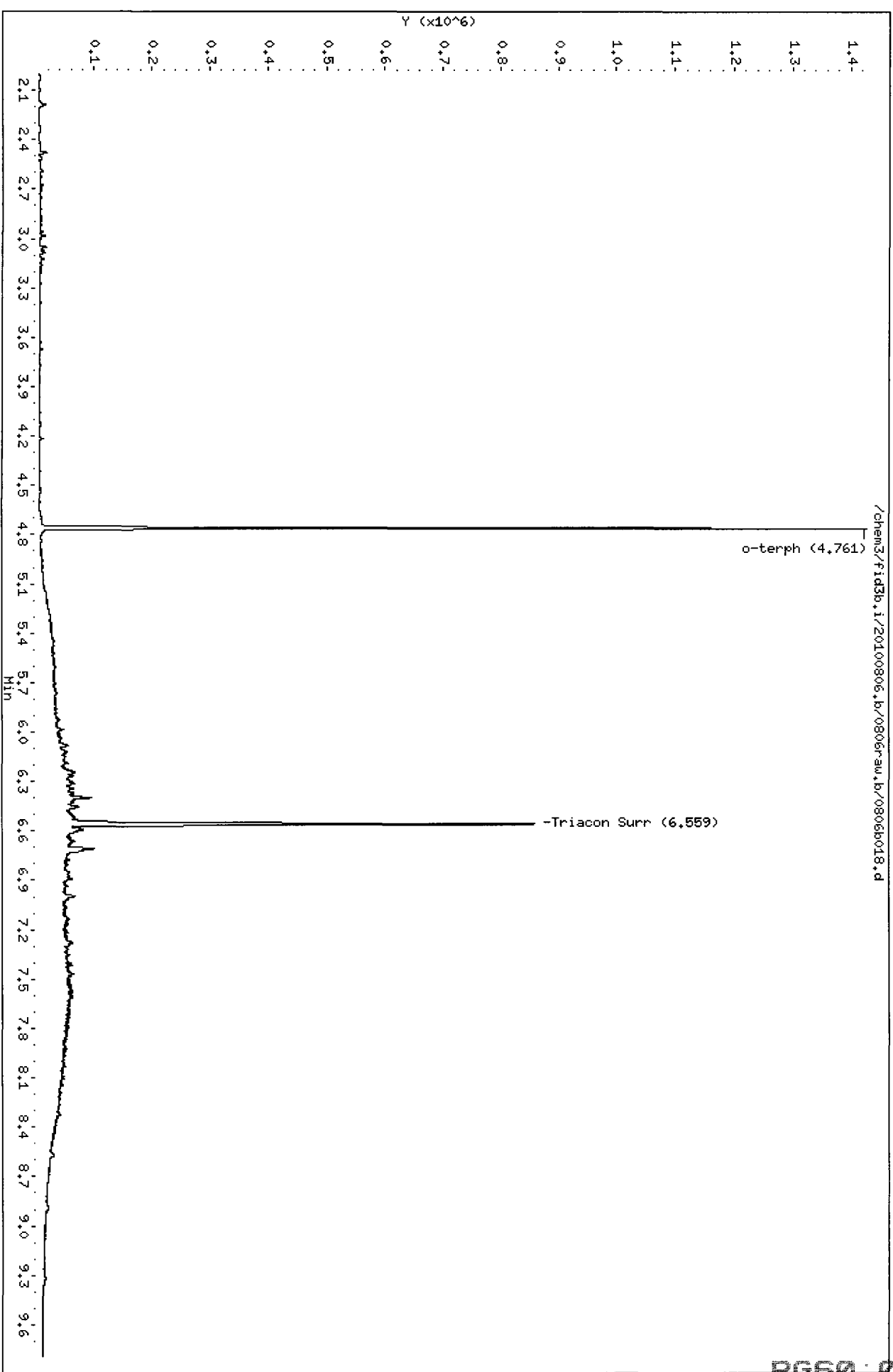
Sample Info: RG60B

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



RG60-00994

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806b018.d
Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/10/2010
Macro: FID:3B073010

ARI ID: RG60B
Client ID: PSB13-1.5-2-072910
Injection: 06-AUG-2010 18:53
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	253070	9
C8	----				DIESEL (C12-C24)	1072762	50
C10	2.856	0.000	3490	3038	M.OIL (C24-C38)	6006454	497
C12	3.456	-0.009	2650	2514	AK-102 (C10-C25)	1332348	55
C14	3.920	-0.004	2193	686	AK-103 (C25-C36)	5051359	566
C16	4.322	0.004	3017	3437	OR.DIES (C10-C28)	2633912	125
C18	4.676	0.002	5606	6292	OR.MOIL (C28-C40)	5289470	469
C20	4.997	0.002	9381	7091			
C22	5.295	0.003	22350	8325	STODDARD (C8-C12)	253070	9
C24	5.600	-0.001	30959	12403			
C25	5.760	-0.002	34438	26427			
C26	5.920	-0.001	35500	10905			
C28	6.241	0.000	63644	15787			
C32	6.855	0.002	55418	25205			
C34	7.135	-0.003	56133	24607	CREOSOT (C8-C22)	846760	132
Filter Peak	----						
C36	7.412	-0.001	54403	10706	BUNKERC (C10-C38)	7232341	837
o-terph	4.761	-0.002	1416516	844697	JET-A (C10-C18)	349647	22
Triacon Surr	6.559	-0.003	793843	707742	IT.MOIL (C24-C40)	7405236	345

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	844697	42.4	94.2
Triacontane	707742	42.3	94.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

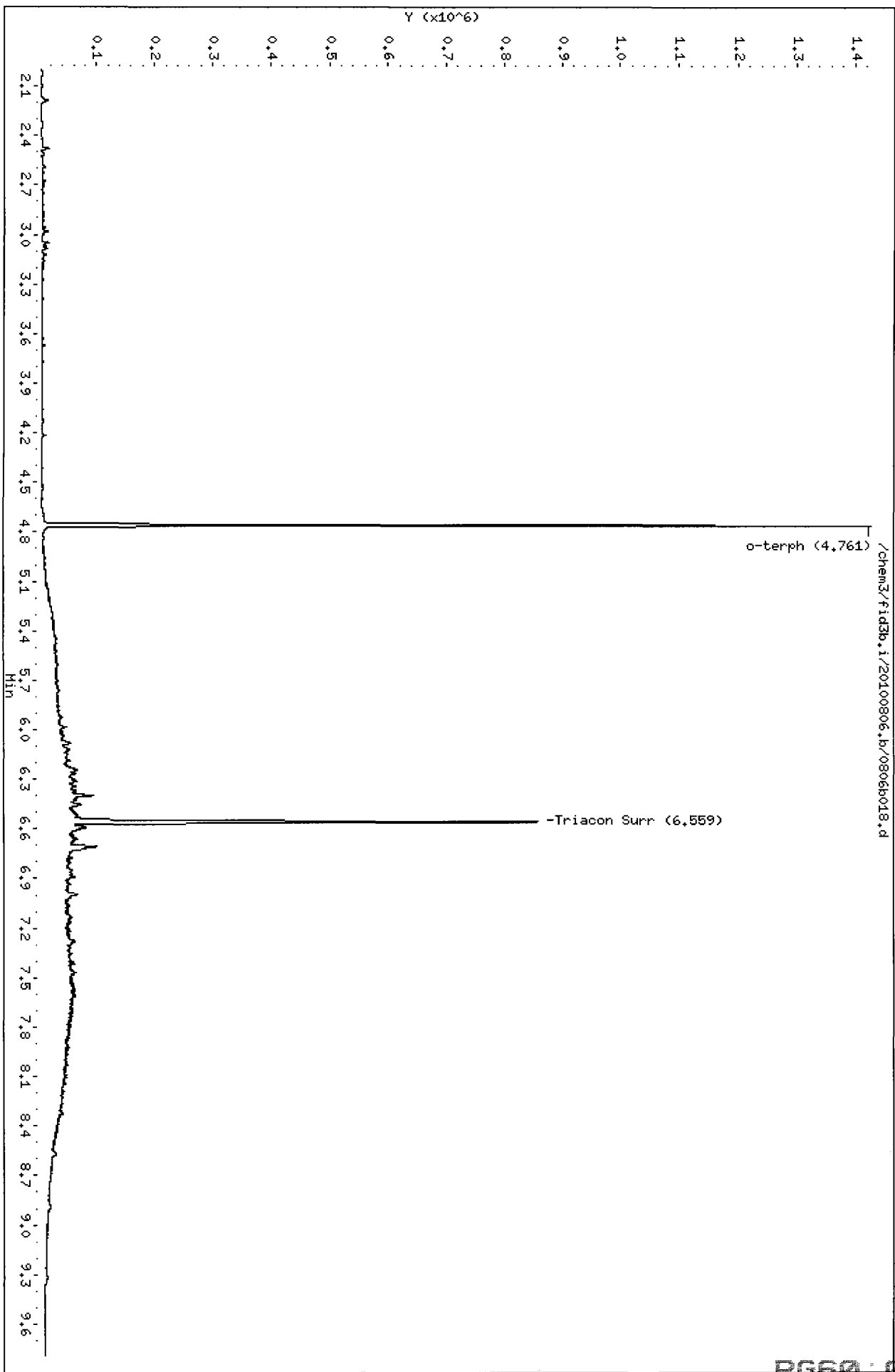
1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst MS Date 8/10/10

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806raw.b/0806b019.d ARI ID: RG60D
 Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m Client ID: PSB13-4-6-072910
 Instrument: fid3b.i Injection: 06-AUG-2010 19:12
 Operator: MS Dilution Factor: 1
 Report Date: 08/10/2010
 Macro: FID:3B073010

FID:3B RESULTS

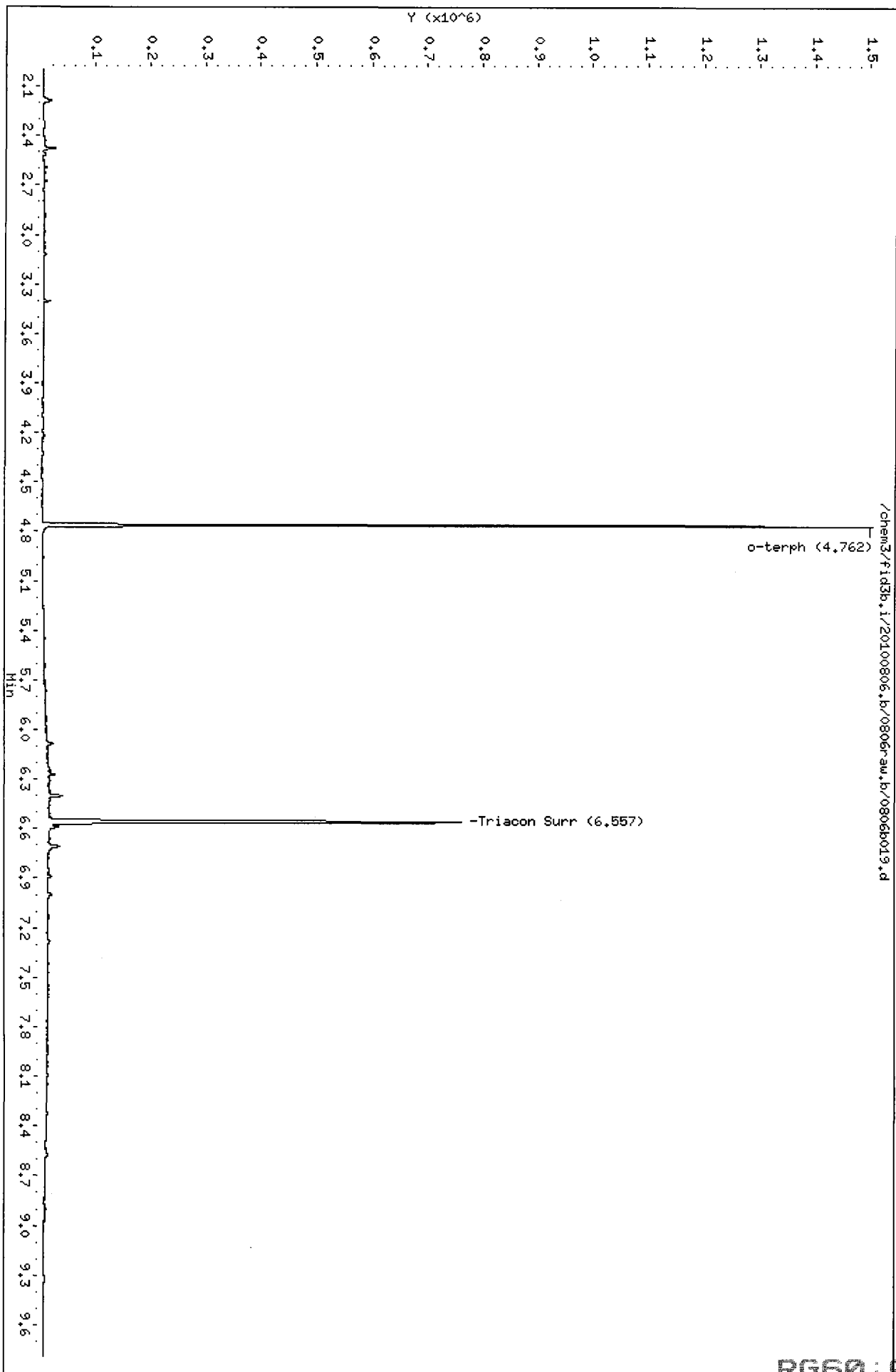
Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	209028	8
C8	----				DIESEL (C12-C24)	297963	14
C10	2.860	0.004	2743	1464	M.OIL (C24-C38)	1547586	128
C12	3.467	0.002	1755	209	AK-102 (C10-C25)	430492	18
C14	3.922	-0.002	1473	1172	AK-103 (C25-C36)	1326447	148
C16	4.318	-0.001	2026	1889	OR.DIES (C10-C28)	785110	37
C18	4.675	0.001	1849	1791	OR.MOIL (C28-C40)	1340166	119
C20	4.997	0.001	2651	773			
C22	5.293	0.001	4450	3754	STODDARD (C8-C12)	209028	8
C24	5.601	0.000	6721	4738			
C25	5.761	-0.001	10989	18299			
C26	5.917	-0.004	9571	10147			
C28	6.239	-0.002	17938	12841			
C32	6.852	-0.001	16217	6550			
C34	7.138	0.000	14557	11632	CREOSOT (C8-C22)	410965	64
Filter Peak	----						
C36	7.415	0.002	14087	7883	BUNKERC (C10-C38)	1954476	226
o-terph	4.762	-0.001	1503131	877597	JET-A (C10-C18)	214382	14
Triacon Surr	6.557	-0.005	761125	663244	IT.MOIL (C24-C40)	2381629	111

Range Times: NW Diesel (3.515 - 5.651) NW Gas (0.976 - 3.515) NW M.Oil (5.651 - 7.720)
 AK102 (2.806 - 5.712) AK103 (5.712 - 7.463) Jet A (2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	877597	44.0	97.8
Triacantane	663244	39.7	88.1

MMS/10/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009



RG60:00998

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806b019.d
Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/10/2010
Macro: FID:3B073010

ARI ID: RG60D
Client ID: PSB13-4-6-072910
Injection: 06-AUG-2010 19:12
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	209028	8
C8	----				DIESEL (C12-C24)	297963	14
C10	2.860	0.004	2743	1464	M.OIL (C24-C38)	1601119	133
C12	3.467	0.002	1755	209	AK-102 (C10-C25)	430492	18
C14	3.922	-0.002	1473	1172	AK-103 (C25-C36)	1379980	154
C16	4.318	-0.001	2026	1889	OR.DIES (C10-C28)	785110	37
C18	4.675	0.001	1849	1791	OR.MOIL (C28-C40)	1393698	124
C20	4.997	0.001	2651	773			
C22	5.293	0.001	4450	3754	STODDARD (C8-C12)	209028	8
C24	5.601	0.000	6721	4738			
C25	5.761	-0.001	10989	18299			
C26	5.917	-0.004	9571	10147			
C28	6.239	-0.002	17938	12841			
C32	6.852	-0.001	16217	6550			
C34	7.138	0.000	14557	11632	CREOSOT (C8-C22)	410965	64
Filter Peak	----						
C36	7.415	0.002	14087	7883	BUNKERC (C10-C38)	2008009	232
o-terph	4.762	-0.001	1503131	877597	JET-A (C10-C18)	214382	14
Triacon Surr	6.557	-0.005	740442	675814	IT.MOIL (C24-C40)	2447732	114

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

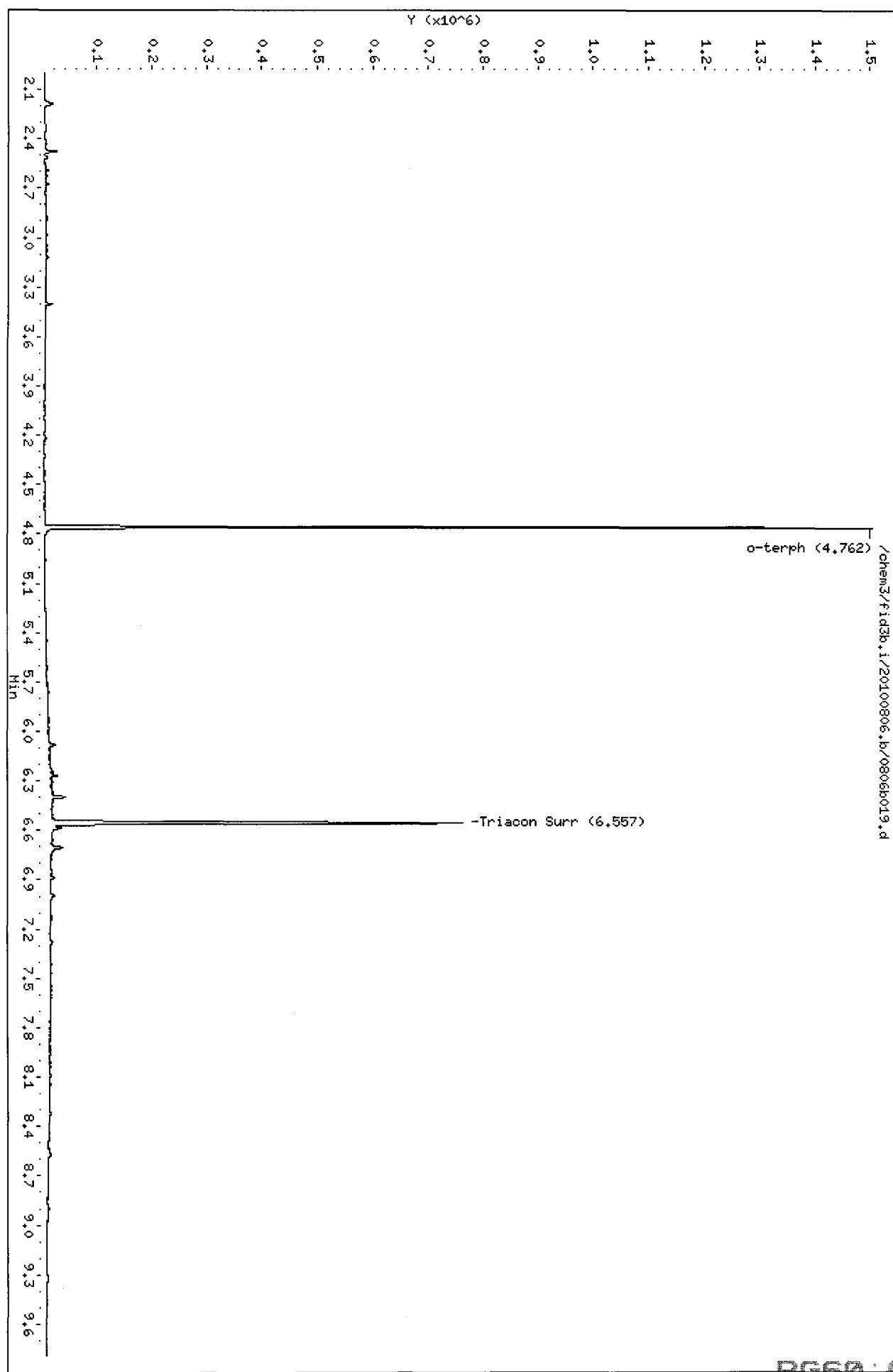
Surrogate	Area	Amount	%Rec
o-Terphenyl	877597	44.0	97.8
Triacontane	675814	40.4	89.8

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst MS Date 8/10/10



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806raw.b/0806b020.d ARI ID: DIESEL#3
 Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m Client ID: DIESEL#3
 Instrument: fid3b.i Injection: 06-AUG-2010 19:31
 Operator: MS Dilution Factor: 1
 Report Date: 08/10/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	823649	30
C8	----				DIESEL (C12-C24)	5281151	247
C10	2.856	0.000	27210	19912	M.OIL (C24-C38)	84218	7
C12	3.466	0.001	71268	53634	AK-102 (C10-C25)	5950888	247
C14	3.923	-0.001	133990	98047	AK-103 (C25-C36)	57311	6
C16	4.319	0.001	238872	188984	OR.DIES (C10-C28)	5991009	284
C18	4.675	0.001	215928	166854	OR.MOIL (C28-C40)	53025	5
C20	4.995	0.000	128042	102555			
C22	5.292	0.000	53261	47748	STODDARD (C8-C12)	823649	30
C24	5.603	0.002	10769	16464			
C25	5.764	0.001	3608	2881			
C26	5.924	0.003	1298	276			
C28	6.239	-0.001	253	177			
C32	6.842	-0.012	124	50			
C34	7.141	0.003	409	149	CREOSOT (C8-C22)	5915556	925
Filter Peak	----						
C36	7.408	-0.005	465	99	BUNKERC (C10-C38)	6022216	697
o-terph	4.762	-0.001	1729982	1077126	JET-A (C10-C18)	4496766	284
Triacon Surr	6.560	-0.003	61	21	IT.MOIL (C24-C40)	106057	5

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
 AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1077126	54.0	120.1
Triacotane	21	0.0	0.0

M 8/10/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100806.b/0806raw.b/0806b020.d
Date : 06-AUG-2010 19:34

Client ID: DIESEL#3

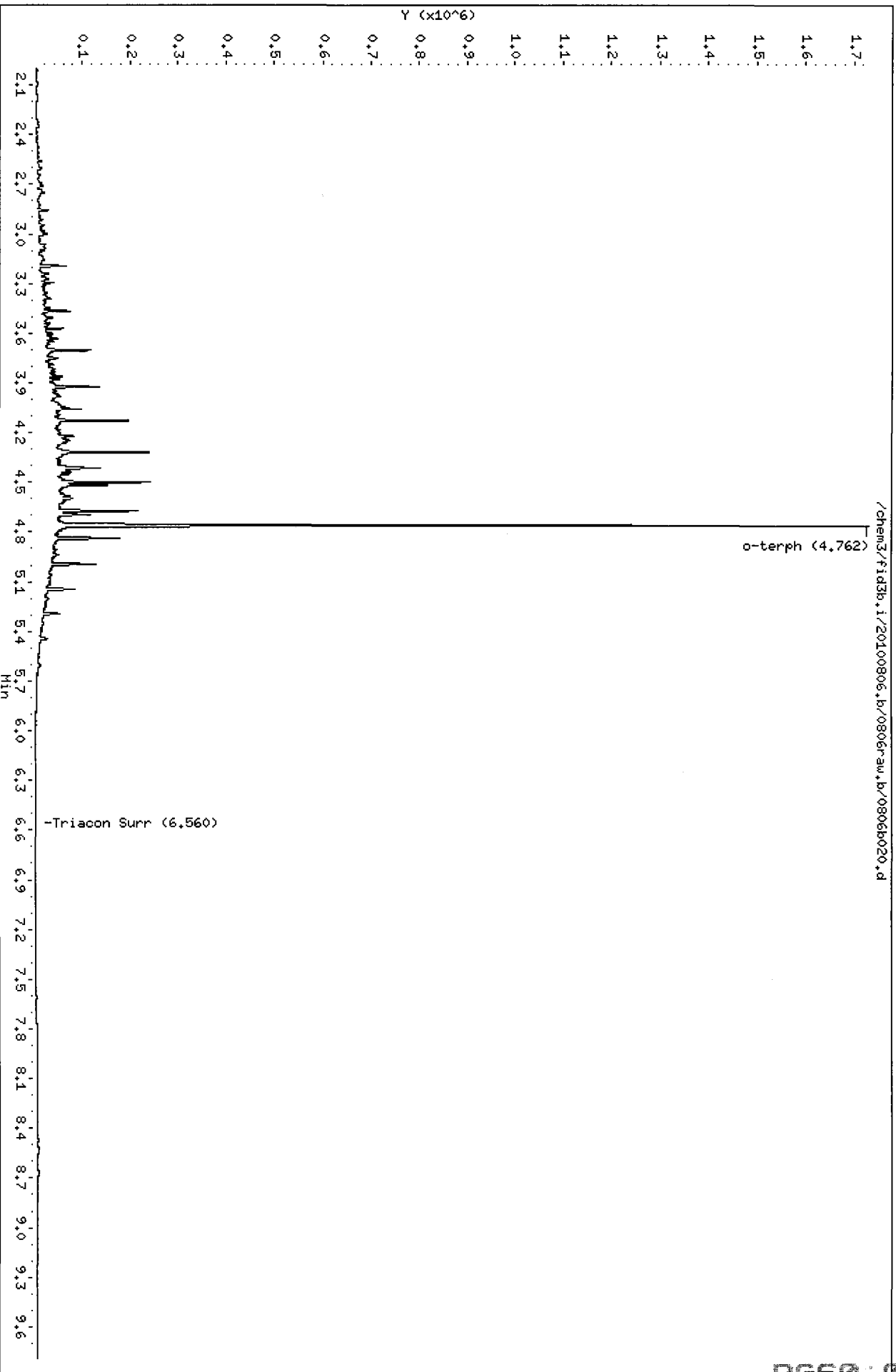
Sample Info: DIESEL#3

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806b020.d
Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/10/2010
Macro: FID:3B073010

ARI ID: DIESEL#3
Client ID: DIESEL#3
Injection: 06-AUG-2010 19:31
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	823649	30
C8	----				DIESEL (C12-C24)	5460372	255
C10	2.856	0.000	27210	19912	M.OIL (C24-C38)	84218	7
C12	3.466	0.001	71268	53634	AK-102 (C10-C25)	6130109	254
C14	3.923	-0.001	133990	98047	AK-103 (C25-C36)	57311	6
C16	4.319	0.001	238872	188984	OR.DIES (C10-C28)	6170230	293
C18	4.675	0.001	215928	166854	OR.MOIL (C28-C40)	53025	5
C20	4.995	0.000	128042	102555			
C22	5.292	0.000	53261	47748	STODDARD (C8-C12)	823649	30
C24	5.603	0.002	10769	16464			
C25	5.764	0.001	3608	2881			
C26	5.924	0.003	1298	276			
C28	6.239	-0.001	253	177			
C32	6.842	-0.012	124	50			
C34	7.141	0.003	409	149	CREOSOT (C8-C22)	6094777	953
Filter Peak	----						
C36	7.408	-0.005	465	99	BUNKERC (C10-C38)	6201437	717
o-terph	4.762	-0.001	1665375	898907	JET-A (C10-C18)	4496766	284
Triacon Surr	6.560	-0.003	61	21	IT.MOIL (C24-C40)	106057	5

Range Times: NW Diesel (3.515 - 5.651) NW Gas (0.976 - 3.515) NW M.Oil (5.651 - 7.720)
AK102 (2.806 - 5.712) AK103 (5.712 - 7.463) Jet A (2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	898907	45.1	100.2
Triacantane	21	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS
 1. Peak not found
 2. Poor Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other
 Analyst MS Date 8/10/10

Data File: /chem3/fid3b.i/20100806.b/0806h020.d
Date: 06-AUG-2010 19:34

Client ID: DIESEL#3

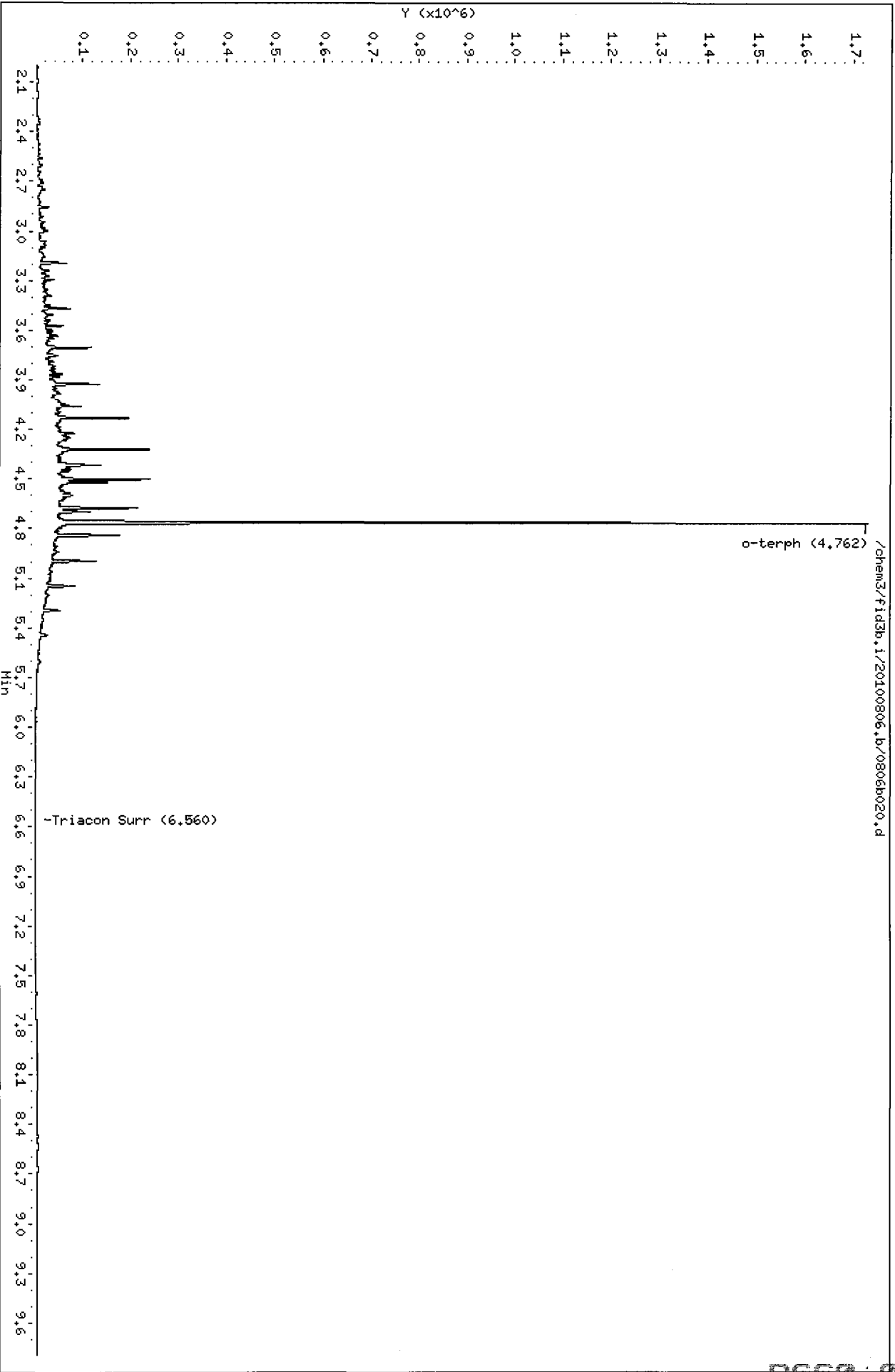
Sample Info: DIESEL#3

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806raw.b/0806b021.d ARI ID: MOIL#3
 Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m Client ID: MOIL#3
 Instrument: fid3b.i Injection: 06-AUG-2010 19:51
 Operator: MS Dilution Factor: 1
 Report Date: 08/10/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	55897	2
C8	----				DIESEL (C12-C24)	728156	34
C10	2.857	0.001	1198	1274	M.OIL (C24-C38)	6049809	501
C12	3.468	0.003	788	249	AK-102 (C10-C25)	884417	37
C14	3.927	0.003	581	216	AK-103 (C25-C36)	5217692	584
C16	4.319	0.001	388	83	OR.DIES (C10-C28)	2318671	110
C18	4.677	0.003	857	735	OR.MOIL (C28-C40)	4985934	442
C20	4.999	0.003	4483	963			
C22	5.291	-0.001	15938	9818	STODDARD (C8-C12)	55897	2
C24	5.601	0.001	29671	8621			
C25	5.766	0.004	38444	20093			
C26	5.922	0.001	41053	16452			
C28	6.237	-0.004	49949	27143			
C32	6.855	0.002	63343	31867			
C34	7.138	0.000	63524	39867	CREOSOT (C8-C22)	335795	53
Filter Peak	----						
C36	7.415	0.003	55308	38203	BUNKERC (C10-C38)	6816939	789
o-terph	4.762	-0.001	3042	3615	JET-A (C10-C18)	80163	5
Triacon Surr	6.560	-0.002	935817	1002394	IT.MOIL (C24-C40)	7539869	351

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
 AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	3615	0.2	0.4
Triacotane	1002394	59.9	133.2

ms 8/10/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100806.b/0806raw.b/0806b021.d
Date: 06-AUG-2010 19:51

Client ID: MOIL#3

Sample Info: MOIL#3

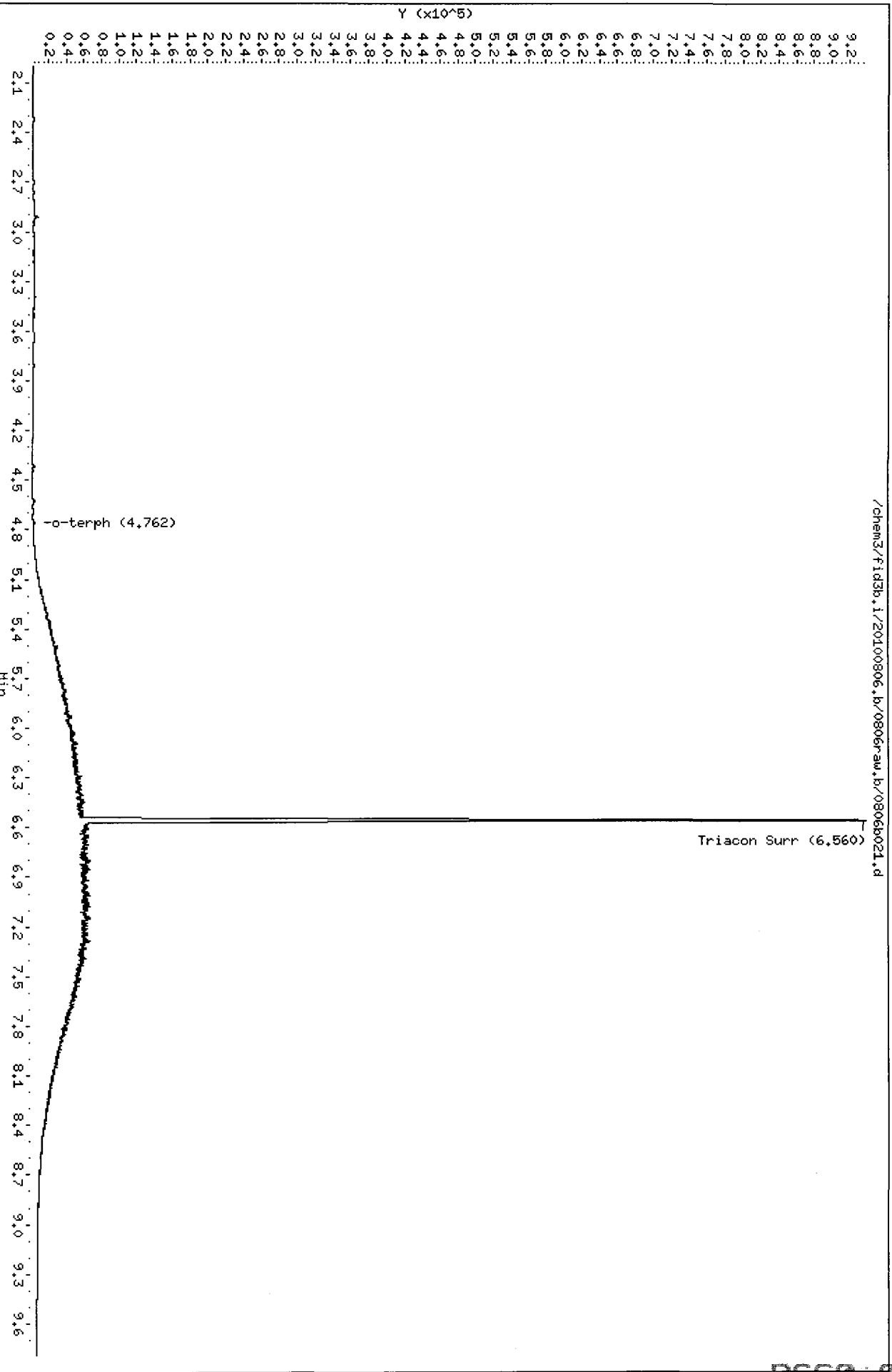
Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00

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Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806b021.d
Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/10/2010
Macro: FID:3B073010

ARI ID: MOIL#3
Client ID: MOIL#3
Injection: 06-AUG-2010 19:51
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	55897	2
C8	----				DIESEL (C12-C24)	728156	34
C10	2.857	0.001	1198	1274	M.OIL (C24-C38)	6225355	515
C12	3.468	0.003	788	249	AK-102 (C10-C25)	884417	37
C14	3.927	0.003	581	216	AK-103 (C25-C36)	5393239	604
C16	4.319	0.001	388	83	OR.DIES (C10-C28)	2318671	110
C18	4.677	0.003	857	735	OR.MOIL (C28-C40)	5161481	458
C20	4.999	0.003	4483	963			
C22	5.291	-0.001	15938	9818	STODDARD (C8-C12)	55897	2
C24	5.601	0.001	29671	8621			
C25	5.766	0.004	38444	20093			
C26	5.922	0.001	41053	16452			
C28	6.237	-0.004	49949	27143			
C32	6.855	0.002	63343	31867			
C34	7.138	0.000	63524	39867	CREOSOT (C8-C22)	335795	53
Filter Peak	----						
C36	7.415	0.003	55308	38203	BUNKERC (C10-C38)	6992486	809
o-terph	4.762	-0.001	3042	3615	JET-A (C10-C18)	80163	5
Triacon Surr	6.560	-0.002	878384	827977	IT.MOIL (C24-C40)	7540998	351

Range Times: NW Diesel (3.515 - 5.651) NW Gas (0.976 - 3.515) NW M.Oil (5.651 - 7.720)
AK102 (2.806 - 5.712) AK103 (5.712 - 7.463) Jet A (2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	3615	0.2	0.4
Triacantane	827977	49.5	110.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

- MANUAL ADJUSTMENTS
1. Peak not found
 2. Poor Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other

Analyst AM Date 8/10/10

Data File: /chem3/fid3b.i/20100806.b/0806021.d
Date : 06-AUG-2010 19:51

Client ID: M01L#3

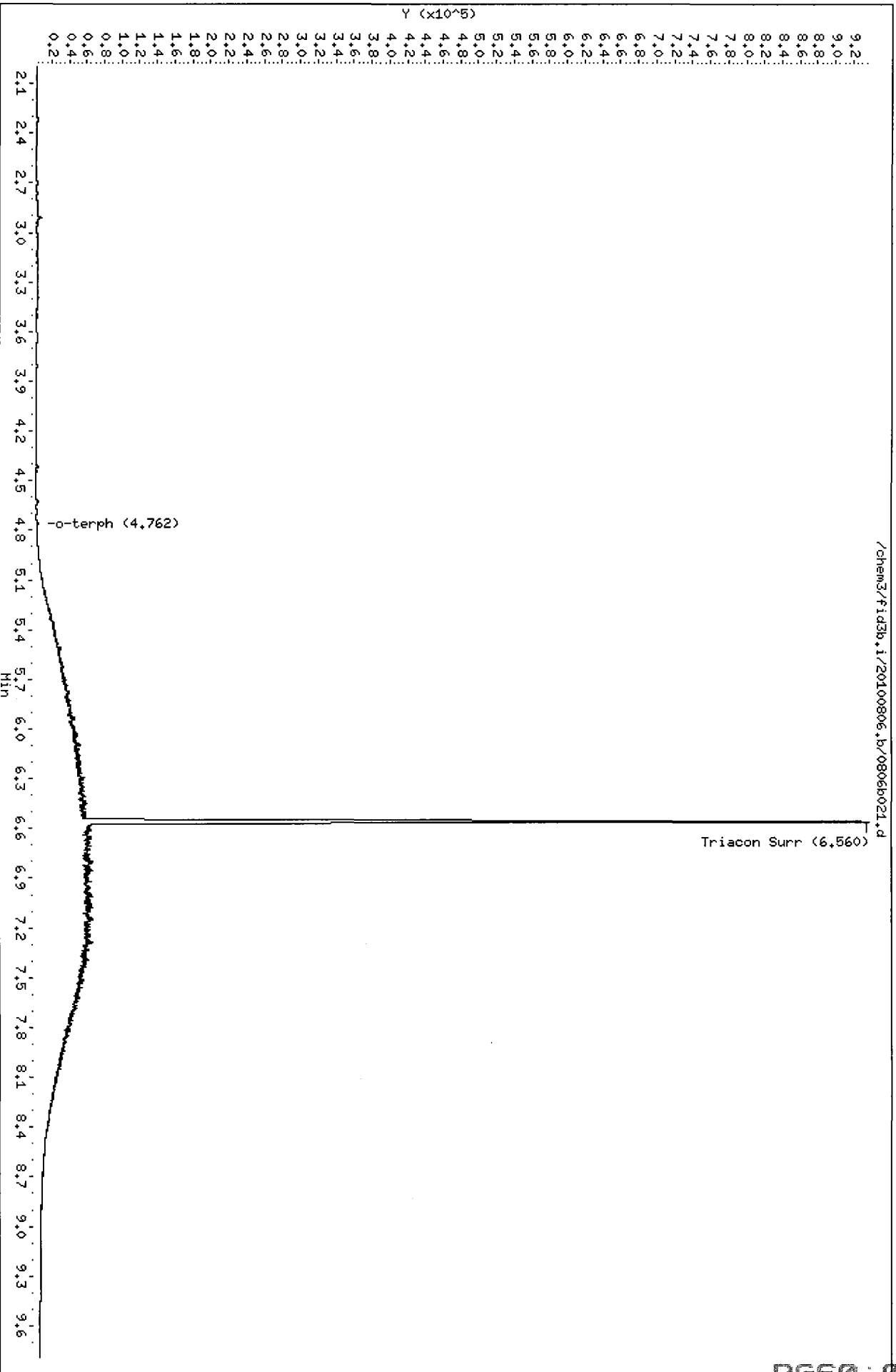
Sample Info: M01L#3

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806raw.b/0806b022.d ARI ID: RG60E
 Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m Client ID: PSB13-11-13-072910
 Instrument: fid3b.i Injection: 06-AUG-2010 20:10
 Operator: MS Dilution Factor: 1
 Report Date: 08/10/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	300765	11
C8	----				DIESEL (C12-C24)	395827	18
C10	2.858	0.002	3639	2455	M.OIL (C24-C38)	3180012	263
C12	3.475	0.010	2331	1749	AK-102 (C10-C25)	601039	25
C14	3.926	0.002	1871	506	AK-103 (C25-C36)	2676570	300
C16	4.319	0.000	1518	616	OR.DIES (C10-C28)	1280116	61
C18	4.672	-0.002	1886	1198	OR.MOIL (C28-C40)	2840570	252
C20	4.995	0.000	2698	1124			
C22	5.287	-0.005	5554	2991	STODDARD (C8-C12)	300765	11
C24	5.603	0.002	10022	6356			
C25	5.758	-0.004	13291	11039			
C26	5.926	0.005	17731	12773			
C28	6.240	0.000	35870	9611			
C32	6.855	0.002	32260	20720			
C34	7.141	0.003	31016	17445	CREOSOT (C8-C22)	548422	86
Filter Peak	----						
C36	7.414	0.001	34145	17114	BUNKERC (C10-C38)	3742400	433
o-terph	4.762	-0.001	1515854	954905	JET-A (C10-C18)	301830	19
Triacon Surr	6.558	-0.004	860495	782868	IT.MOIL (C24-C40)	4341165	202

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
 AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	954905	47.9	106.5
Triacotane	782868	46.8	104.0

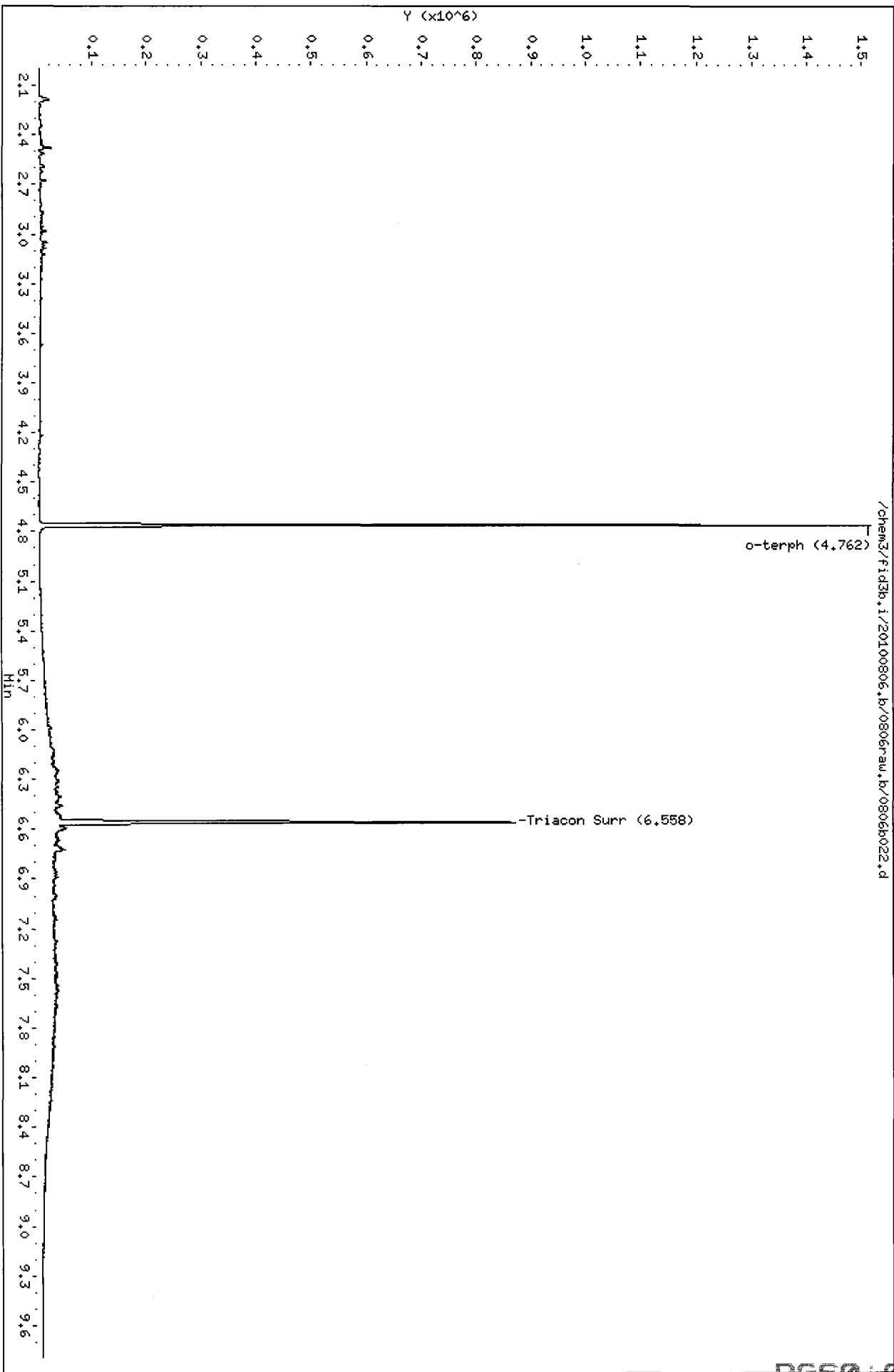
MS 8/10/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Instrument: fid3b.i

Operator: MS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806b022.d
Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/10/2010
Macro: FID:3B073010

ARI ID: RG60E
Client ID: PSB13-11-13-072910
Injection: 06-AUG-2010 20:10
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	300765	11
C8	----				DIESEL (C12-C24)	395827	18
C10	2.858	0.002	3639	2455	M.OIL (C24-C38)	3285148	272
C12	3.475	0.010	2331	1749	AK-102 (C10-C25)	601039	25
C14	3.926	0.002	1871	506	AK-103 (C25-C36)	2781707	311
C16	4.319	0.000	1518	616	OR.DIES (C10-C28)	1280116	61
C18	4.672	-0.002	1886	1198	OR.MOIL (C28-C40)	2945706	261
C20	4.995	0.000	2698	1124			
C22	5.287	-0.005	5554	2991	STODDARD (C8-C12)	300765	11
C24	5.603	0.002	10022	6356			
C25	5.758	-0.004	13291	11039			
C26	5.926	0.005	17731	12773			
C28	6.240	0.000	35870	9611			
C32	6.855	0.002	32260	20720			
C34	7.141	0.003	31016	17445	CREOSOT (C8-C22)	548422	86
Filter Peak	----						
C36	7.414	0.001	34145	17114	BUNKERC (C10-C38)	3847537	445
o-terph	4.762	-0.001	1515854	954905	JET-A (C10-C18)	301830	19
Triacon Surr	6.561	-0.001	829500	748286	IT.MOIL (C24-C40)	4411719	205

Range Times: NW Diesel (3.515 - 5.651) NW Gas (0.976 - 3.515) NW M.Oil (5.651 - 7.720)
AK102 (2.806 - 5.712) AK103 (5.712 - 7.463) Jet A (2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	954905	47.9	106.5
Triacontane	748286	44.7	99.4

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst AM Date 8/10/10

Data File: /chem3/fid3b.i/20100806.b/0806022.d

Date: 06-AUG-2010 20:10

Client ID: PSB13-11-13-072910

Sample Info: RG60E

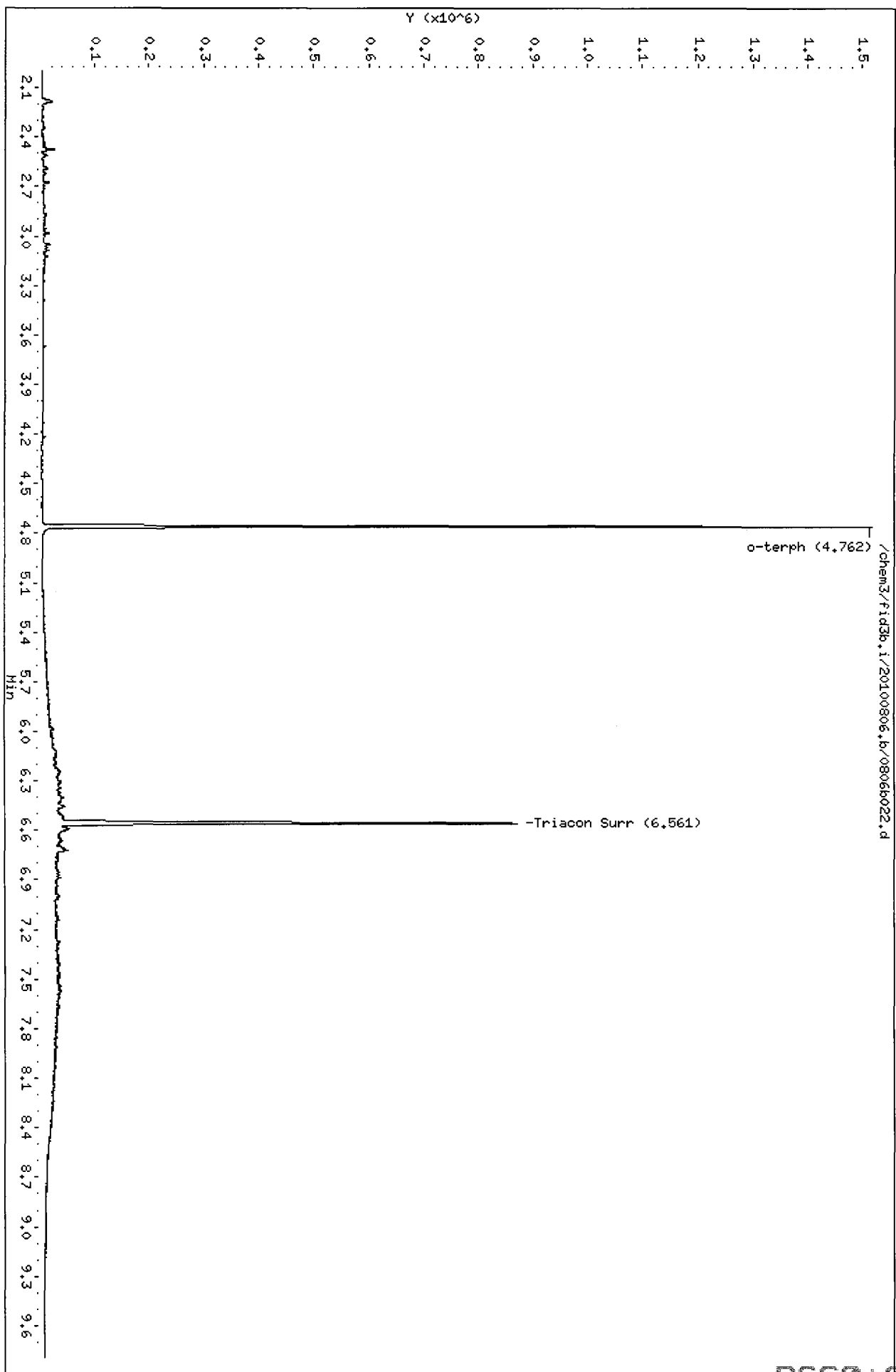
Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00

Page 1



RG60: 01012

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806raw.b/0806b023.d ARI ID: RG60F
 Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m Client ID: PSB13-14.5-16.5-072
 Instrument: fid3b.i Injection: 06-AUG-2010 20:29
 Operator: MS Dilution Factor: 1
 Report Date: 08/10/2010
 Macro: FID:3B073010

FID:3B RESULTS

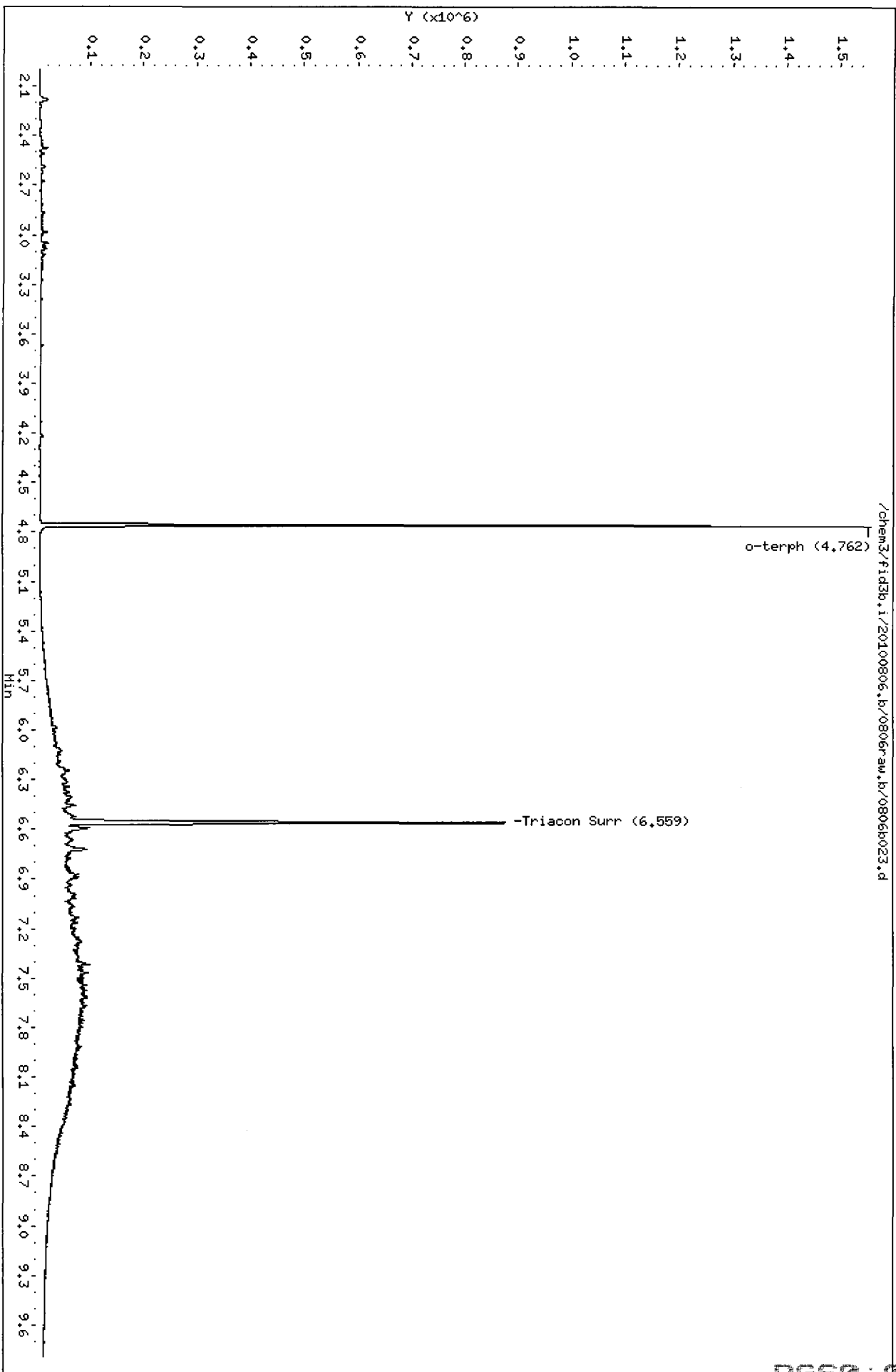
Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	273715	10
C8	----				DIESEL (C12-C24)	425259	20
C10	2.859	0.003	3483	1744	M.OIL (C24-C38)	6473241	536
C12	3.456	-0.009	2782	2640	AK-102 (C10-C25)	638411	26
C14	3.925	0.001	1774	281	AK-103 (C25-C36)	5113788	572
C16	4.315	-0.003	1452	171	OR.DIES (C10-C28)	1633811	77
C18	4.673	-0.001	2190	2249	OR.MOIL (C28-C40)	6491735	576
C20	5.000	0.005	2824	1943			
C22	5.291	-0.001	5236	1240	STODDARD (C8-C12)	273715	10
C24	5.601	0.001	12746	5385			
C25	5.761	-0.001	17724	4813			
C26	5.921	0.000	24073	5708			
C28	6.244	0.003	57395	30391			
C32	6.853	0.000	58667	13807			
C34	7.141	0.003	69500	21899	CREOSOT (C8-C22)	536256	84
Filter Peak	----						
C36	7.417	0.004	95733	95550	BUNKERC (C10-C38)	7057269	817
o-terph	4.762	-0.002	1556233	945204	JET-A (C10-C18)	306258	19
Triacon Surr	6.559	-0.003	874221	814372	IT.MOIL (C24-C40)	8355890	389

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
 AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	945204	47.4	105.4
Triacantane	814372	48.7	108.2

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MS 8/10/10



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806b023.d
Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/10/2010
Macro: FID:3B073010

ARI ID: RG60F
Client ID: PSB13-14.5-16.5-072
Injection: 06-AUG-2010 20:29
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	273715	10
C8	----				DIESEL (C12-C24)	425259	20
C10	2.859	0.003	3483	1744	M.OIL (C24-C38)	6636742	549
C12	3.456	-0.009	2782	2640	AK-102 (C10-C25)	638411	26
C14	3.925	0.001	1774	281	AK-103 (C25-C36)	5277289	591
C16	4.315	-0.003	1452	171	OR.DIES (C10-C28)	1633811	77
C18	4.673	-0.001	2190	2249	OR.MOIL (C28-C40)	6655236	590
C20	5.000	0.005	2824	1943			
C22	5.291	-0.001	5236	1240	STODDARD (C8-C12)	273715	10
C24	5.601	0.001	12746	5385			
C25	5.761	-0.001	17724	4813			
C26	5.921	0.000	24073	5708			
C28	6.244	0.003	57395	30391			
C32	6.853	0.000	58667	13807			
C34	7.141	0.003	69500	21899	CREOSOT (C8-C22)	536256	84
Filter Peak	----						
C36	7.417	0.004	95733	95550	BUNKERC (C10-C38)	7220770	835
o-terph	4.762	-0.002	1556233	945204	JET-A (C10-C18)	306258	19
Triacon Surr	6.559	-0.003	815475	756025	IT.MOIL (C24-C40)	8461044	394

Range Times: NW Diesel (3.515 - 5.651) NW Gas (0.976 - 3.515) NW M.Oil (5.651 - 7.720)
AK102 (2.806 - 5.712) AK103 (5.712 - 7.463) Jet A (2.806 - 4.724)

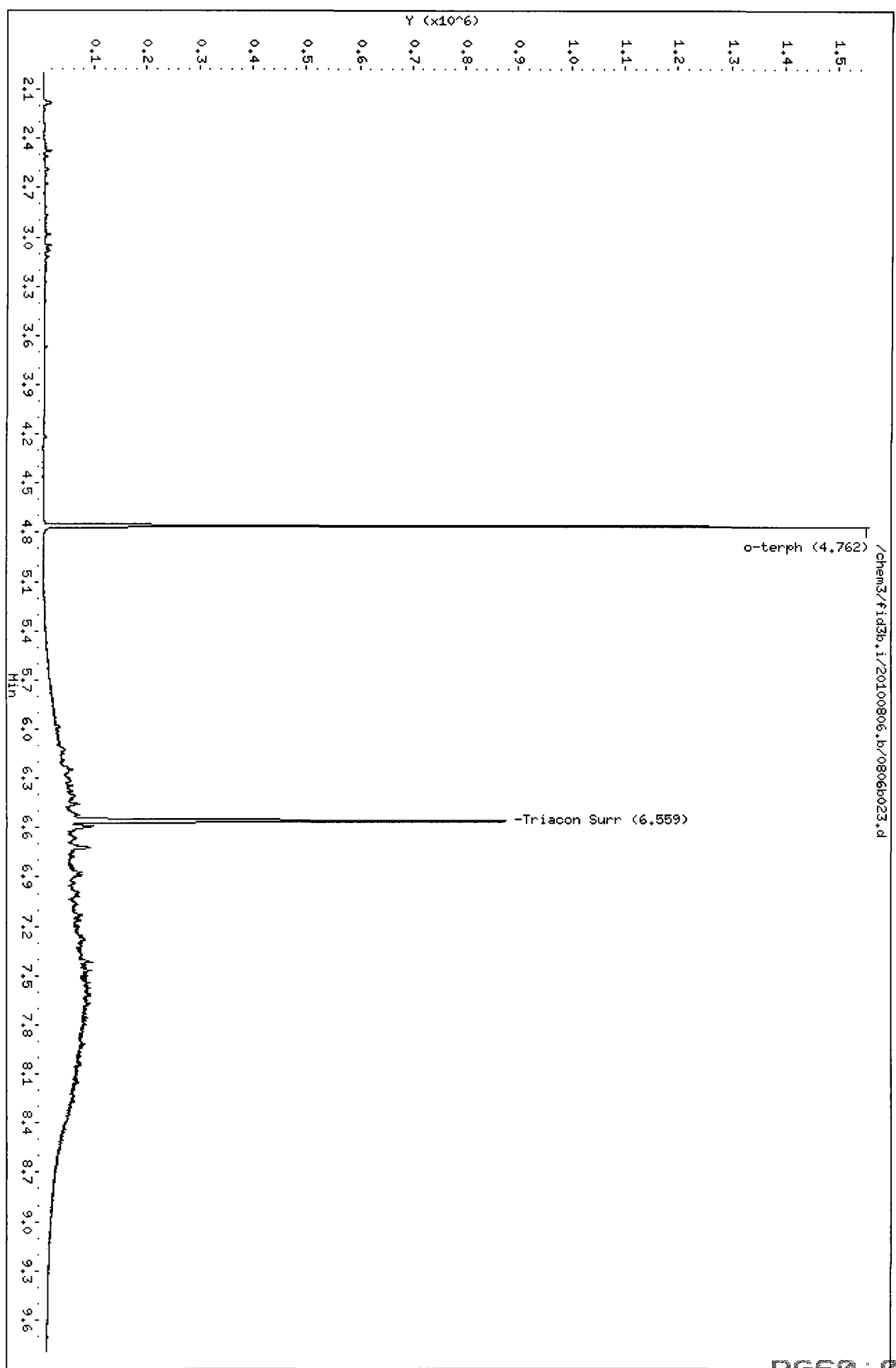
Surrogate	Area	Amount	%Rec
o-Terphenyl	945204	47.4	105.4
Triacantane	756025	45.2	100.4

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS
 1. Peak not found
 2. Poor Chromatography
 3. Baseline Correction
 4. Totals Calculation
 5. Other
 Analyst: *MS* Date: *8/10/10*

Data File: /chem3/fid3b.i/20100806.b/0806b023.d
Date : 06-AUG-2010 20:29
Client ID: PS813-14.5-16.5-072
Sample Info: RG60F
Column phase: RTX-1

Instrument: fid3b.i
Operator: MS
Column diameter: 2.00



RG60F : 01015

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806raw.b/0806b024.d ARI ID: RG60FMS
 Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m Client ID: PSB13-14.5-16.5 MS
 Instrument: fid3b.i Injection: 06-AUG-2010 20:47
 Operator: MS Dilution Factor: 1
 Report Date: 08/10/2010
 Macro: FID:3B073010

FID:3B RESULTS

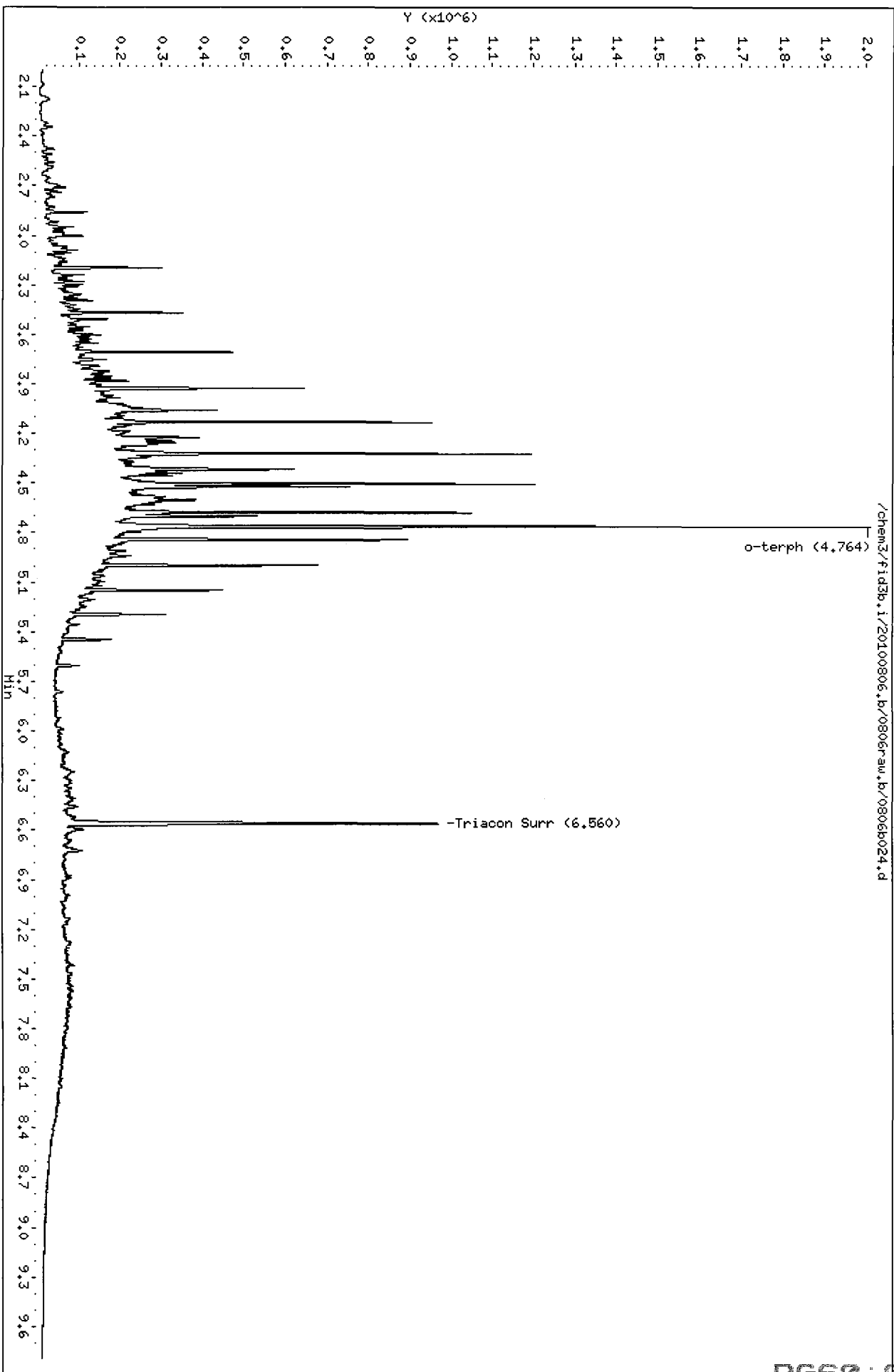
Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	3275512	120
C8	----				DIESEL (C12-C24)	23669199	1106
C10	2.857	0.001	119308	89305	M.OIL (C24-C38)	7715232	639
C12	3.467	0.002	350282	251628	AK-102 (C10-C25)	26460318	1098
C14	3.926	0.002	642572	551200	AK-103 (C25-C36)	6461181	723
C16	4.322	0.004	1194256	899784	OR.DIES (C10-C28)	28224352	1338
C18	4.677	0.003	1047126	923232	OR.MOIL (C28-C40)	6757205	599
C20	4.998	0.002	678089	507817			
C22	5.294	0.002	308841	265017	STODDARD (C8-C12)	3275512	118
C24	5.601	0.000	99558	112102			
C25	5.758	-0.004	59598	46776			
C26	5.920	-0.002	53105	50276			
C28	6.239	-0.002	82481	37764			
C32	6.849	-0.005	68372	62241			
C34	7.141	0.003	75392	42602	CREOSOT (C8-C22)	25794005	4033
Filter Peak	----						
C36	7.415	0.002	85973	73502	BUNKERC (C10-C38)	34046393	3939
o-terph	4.764	0.000	2009332	1641281	JET-A (C10-C18)	19235192	1214
Triacon Surr	6.560	-0.003	969061	1013172	IT.MOIL (C24-C40)	9663568	450

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
 AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1641281	82.3	183.0
Triacantane	1013172	60.6	134.6

M. S. 8/10/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806b024.d
Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/10/2010
Macro: FID:3B073010

ARI ID: RG60FMS
Client ID: PSB13-14.5-16.5 MS
Injection: 06-AUG-2010 20:47
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	3275512	120
C8	----				DIESEL (C12-C24)	24342196	1138
C10	2.857	0.001	119308	89305	M.OIL (C24-C38)	7928524	656
C12	3.467	0.002	350282	251628	AK-102 (C10-C25)	27133316	1126
C14	3.926	0.002	642572	551200	AK-103 (C25-C36)	6674473	747
C16	4.322	0.004	1194256	899784	OR.DIES (C10-C28)	28897349	1370
C18	4.677	0.003	1047126	923232	OR.MOIL (C28-C40)	6970497	618
C20	4.998	0.002	678089	507817			
C22	5.294	0.002	308841	265017	STODDARD (C8-C12)	3275512	118
C24	5.601	0.000	99558	112102			
C25	5.758	-0.004	59598	46776			
C26	5.920	-0.002	53105	50276			
C28	6.239	-0.002	82481	37764			
C32	6.849	-0.005	68372	62241			
C34	7.141	0.003	75392	42602	CREOSOT (C8-C22)	26467003	4138
Filter Peak	----						
C36	7.415	0.002	85973	73502	BUNKERC (C10-C38)	34932682	4042
o-terph	4.764	0.000	1738387	973114	JET-A (C10-C18)	19235192	1214
Triacon Surr	6.560	-0.003	889106	801450	IT.MOIL (C24-C40)	9665138	450

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

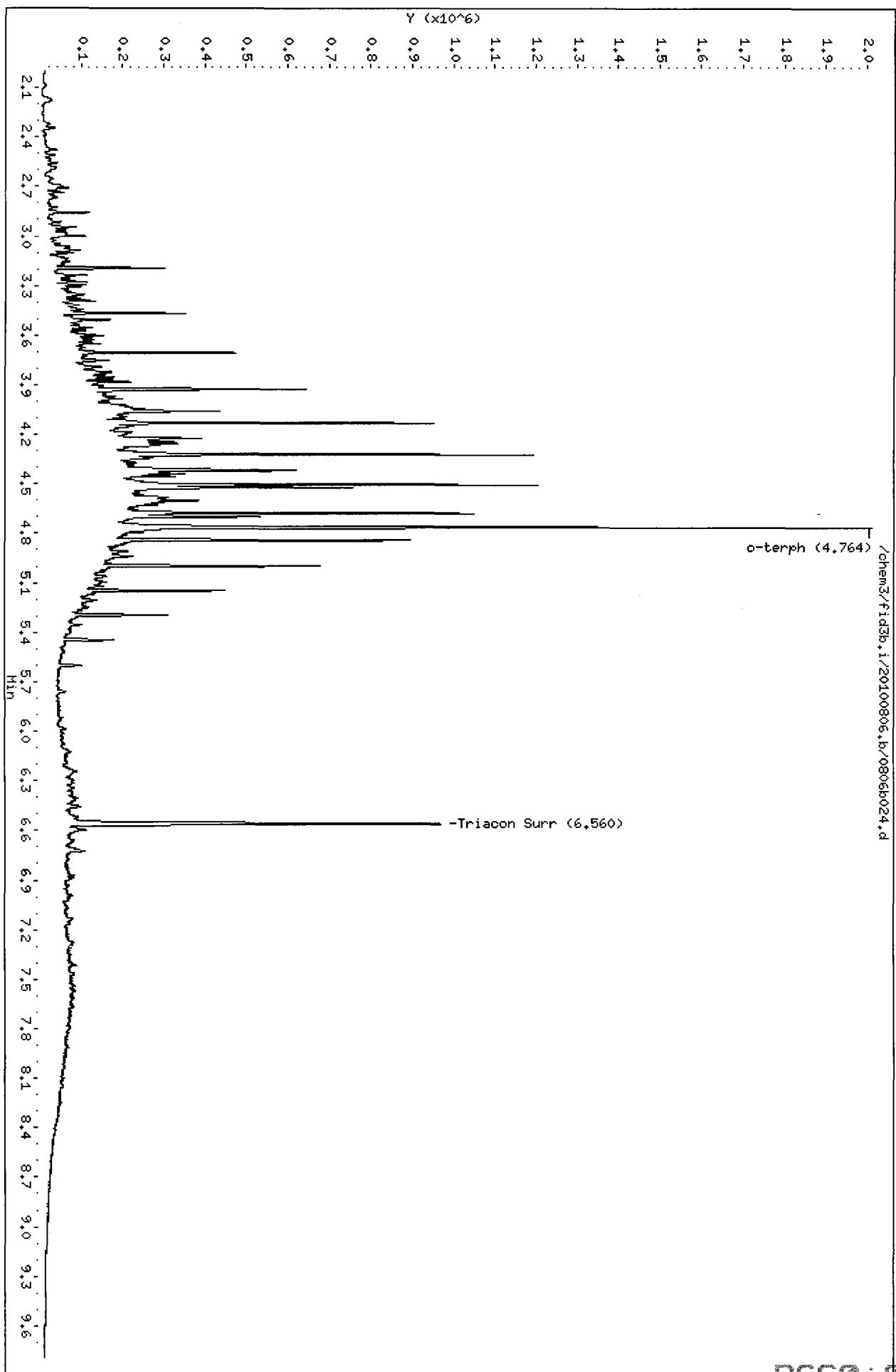
Surrogate	Area	Amount	%Rec
o-Terphenyl	973114	48.8	108.5
Triacantane	801450	47.9	106.5

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst De Date 8/10/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806raw.b/0806b025.d ARI ID: RG60FMSD
 Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m Client ID: PSB13-14.5-16.5 MSD
 Instrument: fid3b.i Injection: 06-AUG-2010 21:06
 Operator: MS Dilution Factor: 1
 Report Date: 08/10/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	3319519	121
C8	----				DIESEL (C12-C24)	24215199	1132
C10	2.858	0.002	118503	94961	M.OIL (C24-C38)	6177995	511
C12	3.467	0.002	343463	243957	AK-102 (C10-C25)	27045304	1122
C14	3.926	0.002	633736	566495	AK-103 (C25-C36)	5120082	573
C16	4.322	0.004	1186111	1019591	OR.DIES (C10-C28)	28450393	1349
C18	4.676	0.002	987285	814780	OR.MOIL (C28-C40)	5380731	477
C20	4.997	0.002	631057	514471			
C22	5.295	0.003	295716	250822	STODDARD (C8-C12)	3319519	120
C24	5.604	0.003	88951	101935			
C25	5.760	-0.002	53974	49582			
C26	5.922	0.001	41663	25063			
C28	6.242	0.002	66221	37315			
C32	6.850	-0.003	55818	29924			
C34	7.142	0.004	58381	45786	CREOSOT (C8-C22)	26492045	4142
Filter Peak	----						
C36	7.415	0.003	66546	20306	BUNKERC (C10-C38)	33089697	3828
o-terph	4.764	0.000	2056816	1432012	JET-A (C10-C18)	19873734	1254
Triacon Surr	6.562	0.000	960386	952866	IT.MOIL (C24-C40)	7872287	366

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
 AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1432012	71.8	159.6
Triacotane	952866	57.0	126.6

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MS 8/10/10

Date : 06-AUG-2010 21:06

Client ID: PSB13-14.5-16.5 HSD

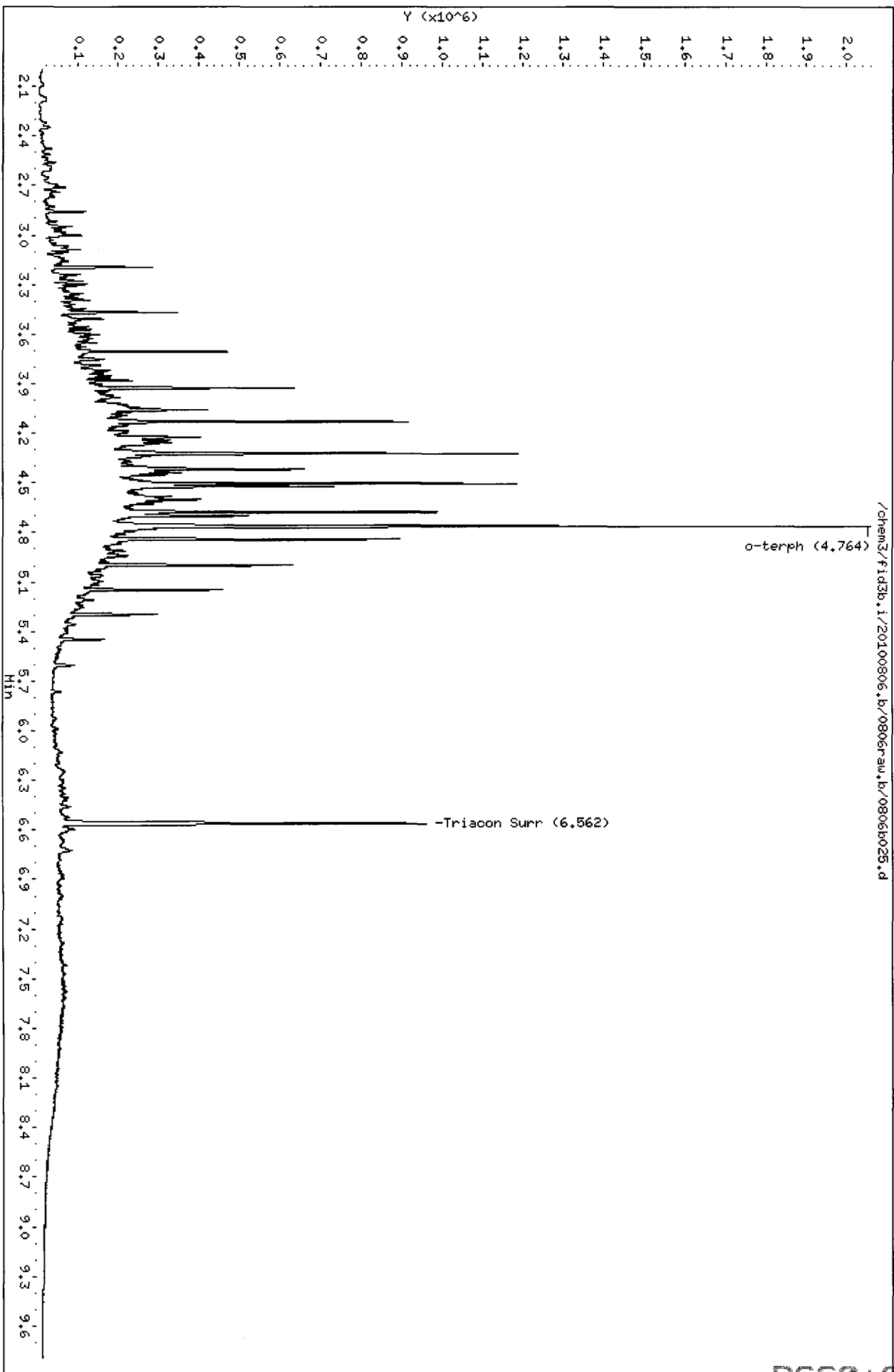
Sample Info: RG60FHSD

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806b025.d
Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/10/2010
Macro: FID:3B073010

ARI ID: RG60FMSD
Client ID: PSB13-14.5-16.5 MSD
Injection: 06-AUG-2010 21:06
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	3319519	121
C8	----				DIESEL (C12-C24)	24696789	1154
C10	2.858	0.002	118503	94961	M.OIL (C24-C38)	6339943	525
C12	3.467	0.002	343463	243957	AK-102 (C10-C25)	27526894	1142
C14	3.926	0.002	633736	566495	AK-103 (C25-C36)	5282030	591
C16	4.322	0.004	1186111	1019591	OR.DIES (C10-C28)	28931983	1372
C18	4.676	0.002	987285	814780	OR.MOIL (C28-C40)	5542679	492
C20	4.997	0.002	631057	514471			
C22	5.295	0.003	295716	250822	STODDARD (C8-C12)	3319519	120
C24	5.604	0.003	88951	101935			
C25	5.760	-0.002	53974	49582			
C26	5.922	0.001	41663	25063			
C28	6.242	0.002	66221	37315			
C32	6.850	-0.003	55818	29924			
C34	7.142	0.004	58381	45786	CREOSOT (C8-C22)	26973635	4217
Filter Peak	----						
C36	7.415	0.003	66546	20306	BUNKERC (C10-C38)	33733235	3903
o-terph	4.764	0.000	1772493	955586	JET-A (C10-C18)	19873734	1254
Triacon Surr	6.562	0.000	897493	792171	IT.MOIL (C24-C40)	7873540	366

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	955586	47.9	106.5
Triacontane	792171	47.4	105.2

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst MS Date 8/10/10

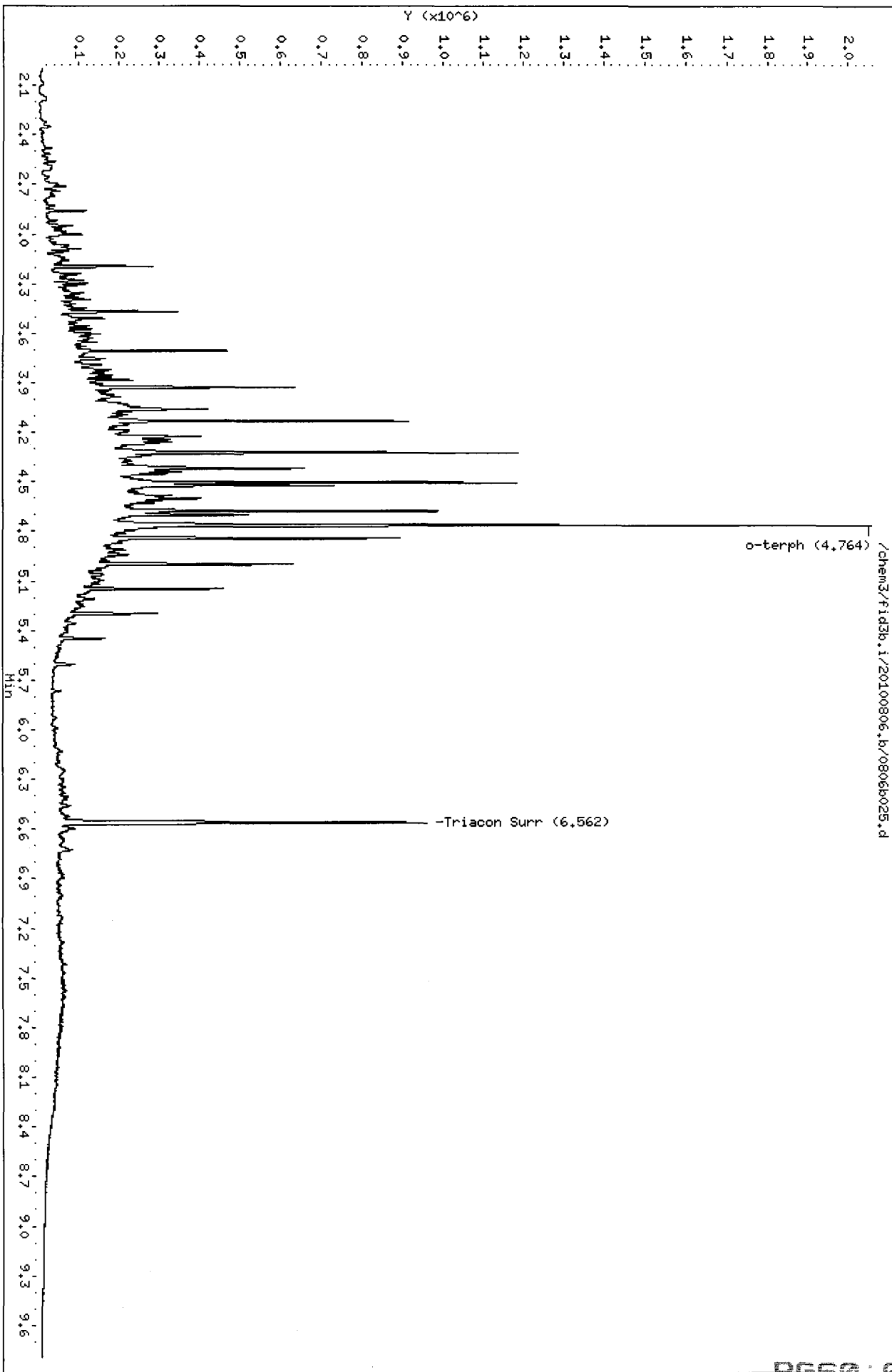
Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

/chem3/fid3b.i/20100806.b/0806025.d

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806raw.b/0806b029.d ARI ID: DIESEL#4
 Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m Client ID: DIESEL#4
 Instrument: fid3b.i Injection: 06-AUG-2010 22:22
 Operator: MS Dilution Factor: 1
 Report Date: 08/10/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	834627	31
C8	----				DIESEL (C12-C24)	5271653	246
C10	2.856	0.000	27921	20320	M.OIL (C24-C38)	80651	7
C12	3.467	0.001	66504	51889	AK-102 (C10-C25)	5945408	247
C14	3.923	-0.001	138620	135102	AK-103 (C25-C36)	56450	6
C16	4.320	0.001	242169	223805	OR.DIES (C10-C28)	5987713	284
C18	4.674	0.000	223756	162823	OR.MOIL (C28-C40)	40251	4
C20	4.996	0.000	133594	106290			
C22	5.293	0.001	54345	47356	STODDARD (C8-C12)	834627	30
C24	5.604	0.004	10667	18438			
C25	5.761	-0.002	3090	817			
C26	5.919	-0.002	1337	787			
C28	6.240	-0.001	223	47			
C32	6.870	0.017	725	938			
C34	7.135	-0.002	224	88	CREOSOT (C8-C22)	5934002	928
Filter Peak	----						
C36	7.415	0.002	397	70	BUNKERC (C10-C38)	6011768	696
o-terph	4.763	-0.001	1717501	1074847	JET-A (C10-C18)	4501847	284
Triacon Surr	6.563	0.001	79	33	IT.MOIL (C24-C40)	96879	5

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
 AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1074847	53.9	119.8
Triacantane	33	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20100806.b/0806raw.b/0806b029.d
Date : 06-AUG-2010 22:22

Client ID: DIESEL#4

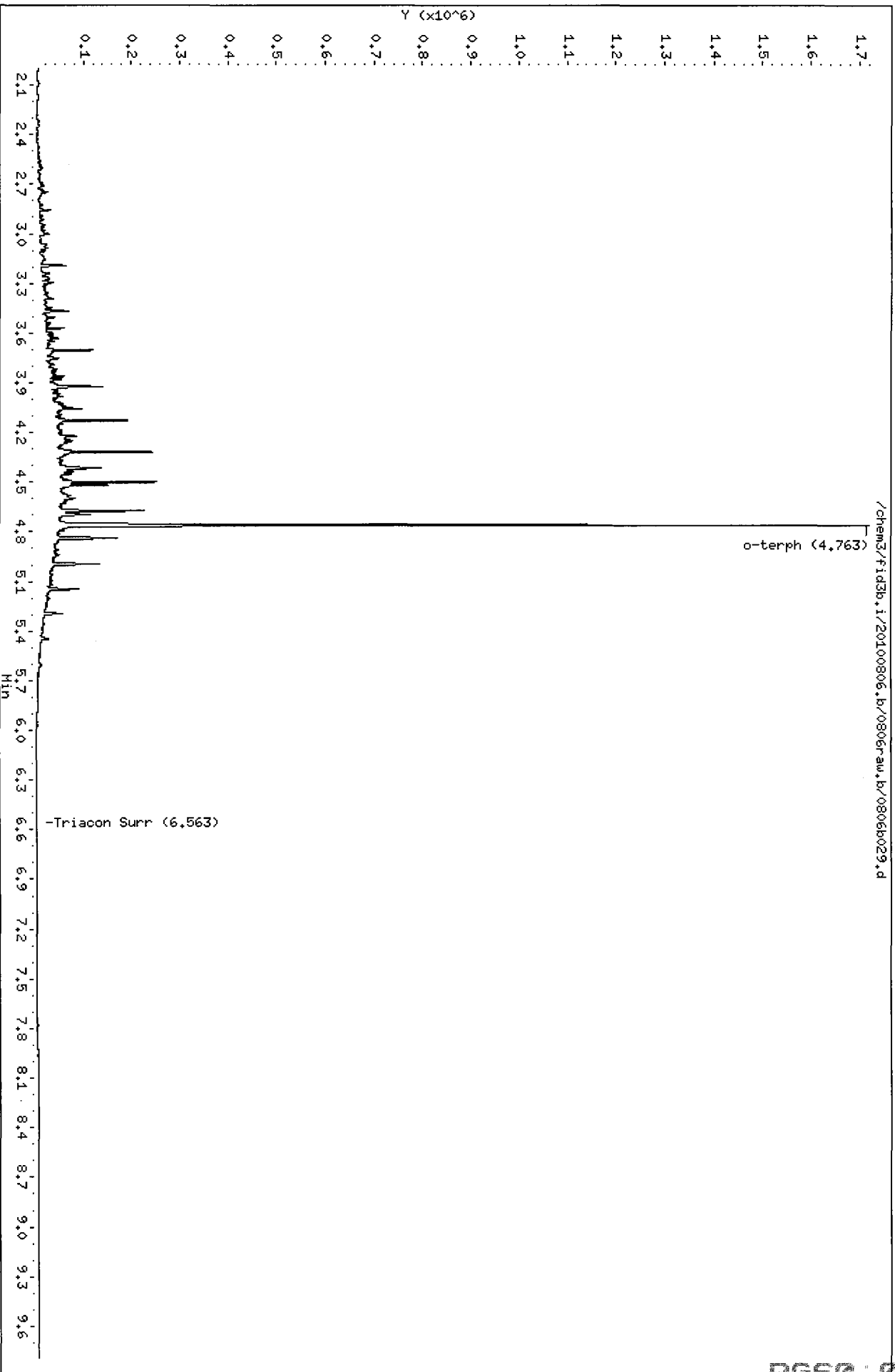
Sample Info: DIESEL#4

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806b029.d
Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/10/2010
Macro: FID:3B073010

ARI ID: DIESEL#4
Client ID: DIESEL#4
Injection: 06-AUG-2010 22:22
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	834627	31
C8	----				DIESEL (C12-C24)	5444594	254
C10	2.856	0.000	27921	20320	M.OIL (C24-C38)	80651	7
C12	3.467	0.001	66504	51889	AK-102 (C10-C25)	6118348	254
C14	3.923	-0.001	138620	135102	AK-103 (C25-C36)	56450	6
C16	4.320	0.001	242169	223805	OR.DIES (C10-C28)	6160653	292
C18	4.674	0.000	223756	162823	OR.MOIL (C28-C40)	40251	4
C20	4.996	0.000	133594	106290			
C22	5.293	0.001	54345	47356	STODDARD (C8-C12)	834627	30
C24	5.604	0.004	10667	18438			
C25	5.761	-0.002	3090	817			
C26	5.919	-0.002	1337	787			
C28	6.240	-0.001	223	47			
C32	6.870	0.017	725	938			
C34	7.135	-0.002	224	88	CREOSOT (C8-C22)	6106943	955
Filter Peak	----						
C36	7.415	0.002	397	70	BUNKERC (C10-C38)	6184709	716
o-terph	4.763	-0.001	1653231	902966	JET-A (C10-C18)	4501847	284
Triacon Surr	6.563	0.001	79	33	IT.MOIL (C24-C40)	96879	5

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	902966	45.3	100.7
Triacantane	33	0.0	0.0

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst APM Date 8/10/10

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

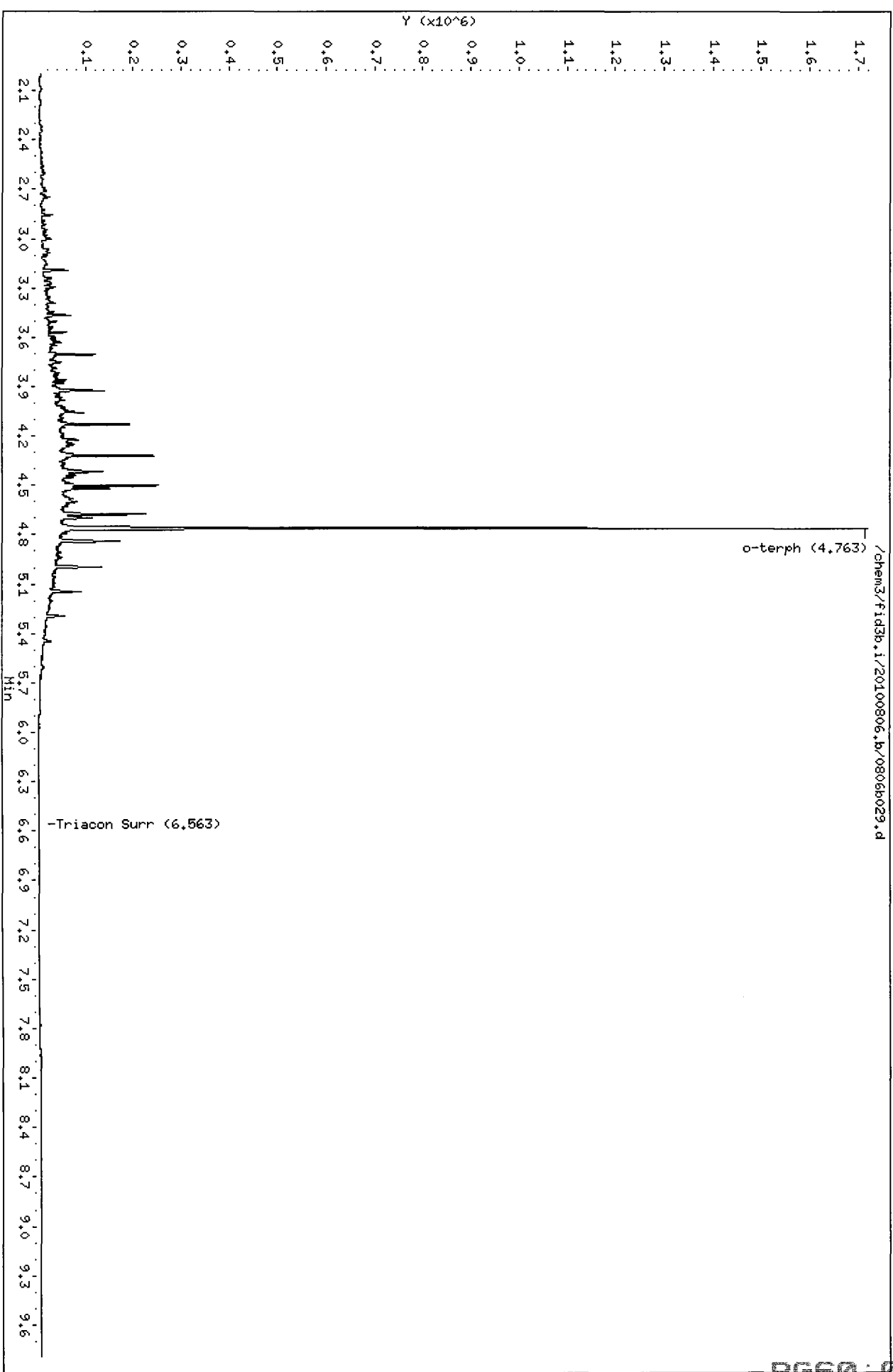
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Date: 06-AUG-2010 22:22

Client ID: DIESEL#4
Sample Info: DIESEL#4

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS
Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806raw.b/0806b030.d ARI ID: MOIL#4
 Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m Client ID: MOIL#4
 Instrument: fid3b.i Injection: 06-AUG-2010 22:41
 Operator: MS Dilution Factor: 1
 Report Date: 08/10/2010
 Macro: FID:3B073010

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	58447	2
C8	----				DIESEL (C12-C24)	738211	34
C10	2.858	0.002	1285	1410	M.OIL (C24-C38)	6132494	508
C12	3.459	-0.006	846	665	AK-102 (C10-C25)	885018	37
C14	3.927	0.003	628	121	AK-103 (C25-C36)	5330398	597
C16	4.314	-0.005	417	81	OR.DIES (C10-C28)	2384377	113
C18	4.677	0.003	878	458	OR.MOIL (C28-C40)	5030874	446
C20	4.993	-0.002	4596	1871			
C22	5.292	0.000	15912	4295	STODDARD (C8-C12)	58447	2
C24	5.605	0.004	28247	6030			
C25	5.758	-0.005	35968	24255			
C26	5.917	-0.004	40347	22964			
C28	6.238	-0.003	50608	16883			
C32	6.852	-0.001	63953	24369			
C34	7.140	0.002	60852	9601	CREOSOT (C8-C22)	344995	54
Filter Peak	----						
C36	7.418	0.006	56067	25978	BUNKERC (C10-C38)	6911318	800
o-terph	4.761	-0.002	3131	3634	JET-A (C10-C18)	85023	5
Triacon Surr	6.560	-0.002	1014875	985560	IT.MOIL (C24-C40)	7621988	355

Range Times: NW Diesel(3.515 - 5.651) NW Gas(0.976 - 3.515) NW M.Oil(5.651 - 7.720)
 AK102(2.806 - 5.712) AK103(5.712 - 7.463) Jet A(2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	3634	0.2	0.4
Triacantane	985560	58.9	130.9

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MS 8/10/10

Data File: /chem3/fid3b.i/20100806.b/0806raw.b/0806b030.d
Date : 06-AUG-2010 22:41

Client ID: H01L#4

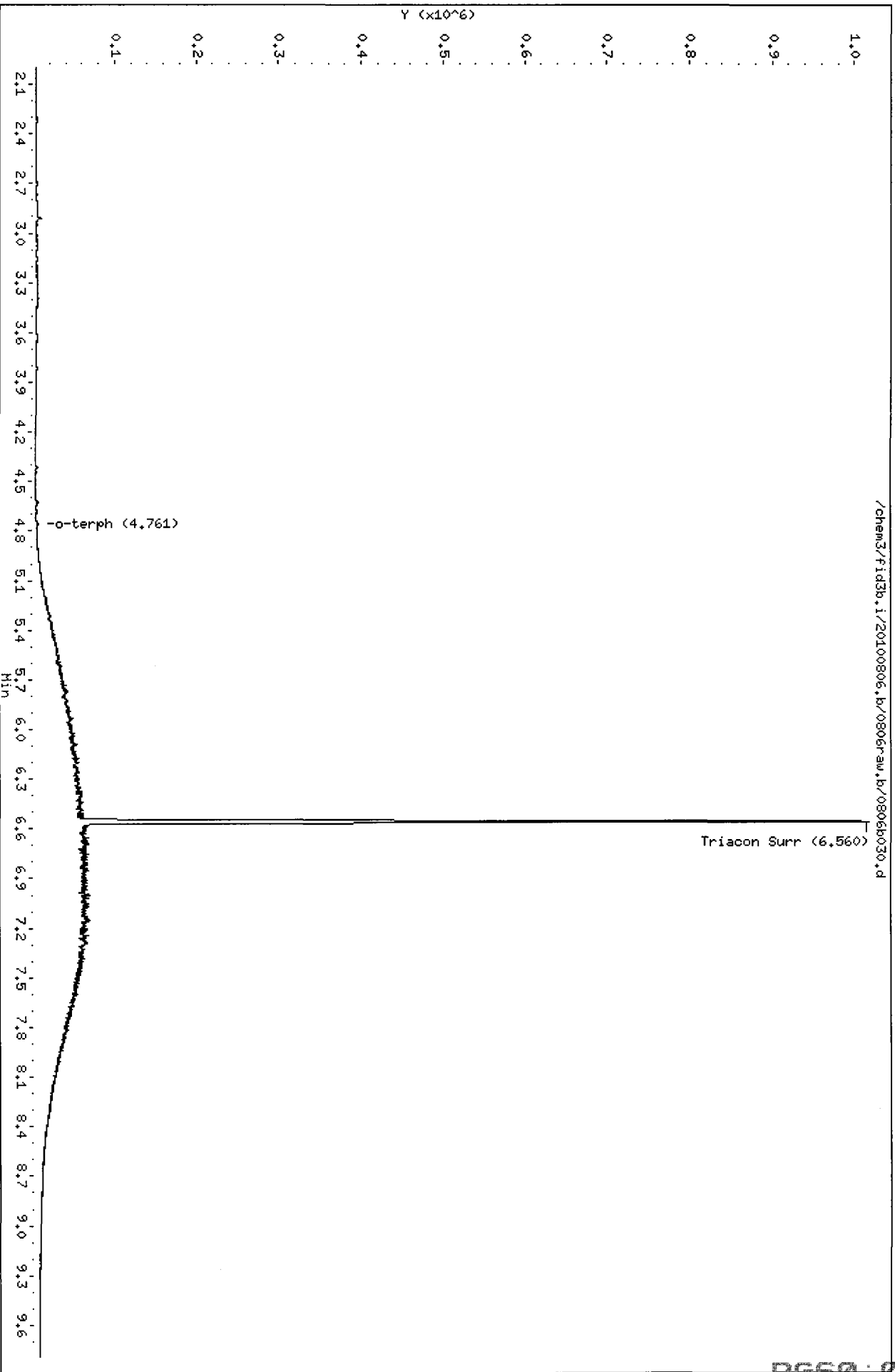
Sample Info: H01L#4

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20100806.b/0806b030.d
Method: /chem3/fid3b.i/20100806.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 08/10/2010
Macro: FID:3B073010

ARI ID: MOIL#4
Client ID: MOIL#4
Injection: 06-AUG-2010 22:41
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	----				GAS (Tol-C12)	58447	2
C8	----				DIESEL (C12-C24)	738211	34
C10	2.858	0.002	1285	1410	M.OIL (C24-C38)	6288015	520
C12	3.459	-0.006	846	665	AK-102 (C10-C25)	885018	37
C14	3.927	0.003	628	121	AK-103 (C25-C36)	5485919	614
C16	4.314	-0.005	417	81	OR.DIES (C10-C28)	2384377	113
C18	4.677	0.003	878	458	OR.MOIL (C28-C40)	5186395	460
C20	4.993	-0.002	4596	1871			
C22	5.292	0.000	15912	4295	STODDARD (C8-C12)	58447	2
C24	5.605	0.004	28247	6030			
C25	5.758	-0.005	35968	24255			
C26	5.917	-0.004	40347	22964			
C28	6.238	-0.003	50608	16883			
C32	6.852	-0.001	63953	24369			
C34	7.140	0.002	60852	9601	CREOSOT (C8-C22)	344995	54
Filter Peak	----						
C36	7.418	0.006	56067	25978	BUNKERC (C10-C38)	7066839	818
o-terph	4.761	-0.002	3131	3634	JET-A (C10-C18)	85023	5
Triacon Surr	6.560	-0.002	955379	831194	IT.MOIL (C24-C40)	7623142	355

Range Times: NW Diesel (3.515 - 5.651) NW Gas (0.976 - 3.515) NW M.Oil (5.651 - 7.720)
AK102 (2.806 - 5.712) AK103 (5.712 - 7.463) Jet A (2.806 - 4.724)

Surrogate	Area	Amount	%Rec
o-Terphenyl	3634	0.2	0.4
Triacantane	831194	49.7	110.4

Analyte	RF	Curve Date
o-Terph Surr	19934.0	30-JUL-2010
Triacon Surr	16726.1	30-JUL-2010
Gas	27357.0	16-MAR-2010
Diesel	21397.5	30-JUL-2010
Motor Oil	12081.4	30-JUL-2010
AK102	24104.0	30-JUL-2010
AK103	8932.5	01-SEPT-2009
JetA	15848.0	27-JAN-2009
OR Diesel	21090.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8643.2	15-SEP-2009
Creosote	6396.0	17-JAN-2009

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst ms Date 8/10/10

Data File: /chem3/fid3b.i/20100806.b/0806030.d
Date: 06-AUG-2010 22:44

Client ID: H01L#4

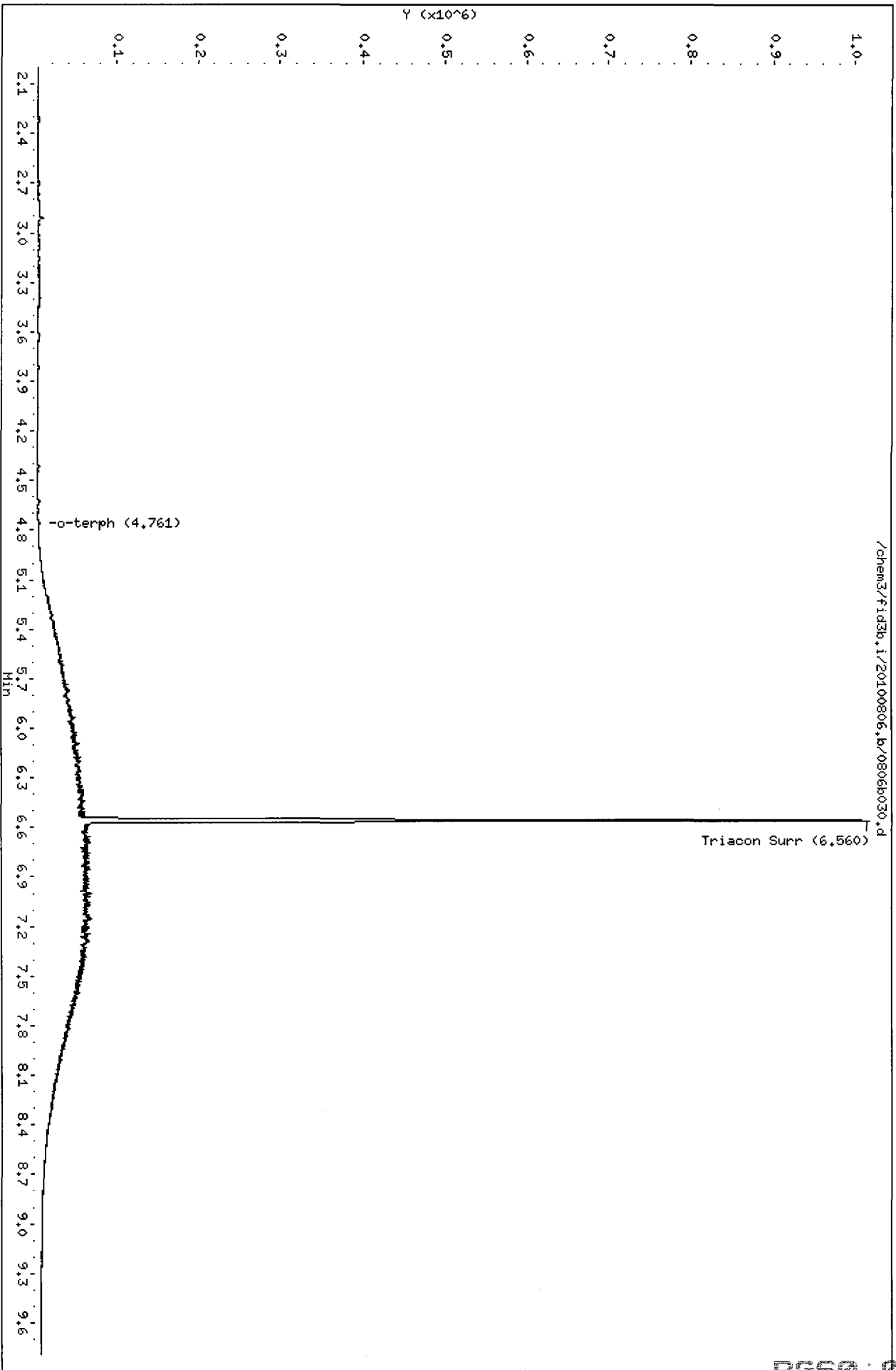
Sample Info: H01L#4

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 2.00



**TPHG/BETX Raw Data
Preparation Log**

ARI Job ID: RG60



Analytical Resources, Incorporated
Analytical Chemists and Consultants

ARI Project No.

Client ID/Project

1st Extraction: 8/3/10

2nd Extraction:

Volatile Organics Extraction Bench Sheet

(8260B, 8260B-SIM, 8021, NWTPH-Gx, AK-101, TPH-G, VPH, TCLP-ZHE)

Analyst
MA

MeOH Lot No.

Extraction Date

8/3/10

Lab ID	Vial No.	Preservative		Method 5035 Sample Weight				Comments
		NaHSO ₃	CH ₃ OH	Vial Weight	Tare (from vial)	Sample Weight	Extract Volume	
MB:								
LCS:								
LCS:								
1	2	X	X	36.25	28.241	8.009	S	900
2	1	X	X	37.64	28.177	9.463		
3	3	X	X	37.99	28.210	9.77		
4	3	X	X	38.58	28.112	10.30468 774		
5	1	X	X	39.30	28.280	11.02 815		
6	2	X	X	39.07	28.120	10.95		
7								
8								
9	1	X	X	39.08	28.141	10.939	S	900
10	1	X	X	38.14	28.202	9.936		
11	1	X	X	37.71	28.140	9.570		
12	1	X	X	35.86	28.142	7.716		
13	2	X	X	38.03	27.953	10.077		
14	2	X	X	38.34	28.118	10.222		
15	1	X	X	36.87	28.096	8.774		
16	2	X	X	37.10	28.193	8.907		
17	1	X	X	36.62	28.031	8.589		
18	1	X	X	38.11	28.055	10.055		
19								
20								

Balance ID: _____ Solution ID _____ Concentration _____ Amount Spiked _____ Analyst _____ Witness _____

Surrogate: _____

Spike: _____

RG60 : 01034

**TPHG/BETX Raw Data
Initial Calibration Notes and Raw Data**

ARI Job ID: RG60



VOA Analyst Notes / Corrective Action Log

ARI Project ID: Gas/BETA CURR Client ID: _____

ARI SOP: ~~404S(Gas)~~ ~~410S(BTEX)~~ 430S(VPH) 700S(8260C) 703S(SIM) 706S(524.2) 710S(RSK-175)

Parameter(s): Gas/BETA

Instrument: NT-3 NT-5 NT-7 NT-9 NT-10 PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 5 Curve Date: 7/28/10 Analysis Start Date: 7/28/10

pH ≤ 2.0	YES / NO <u>NA</u>	Method Blank In Control?	<u>YES</u> / NO
BFB Tune Meets Criteria?	YES / NO <u>NA</u>	LCS / LCSD Recovery In Control?	<u>YES</u> / NO
Internal Standard Meets Criteria?	YES / NO <u>NA</u>	Surrogate Recovery In Control?	<u>YES</u> / NO
ICal acceptable?	<u>YES</u> / NO	CCal acceptable?	<u>YES</u> / NO
Q flag applied?	YES / NO <u>NA</u>	Q flag applied?	YES / NO <u>NA</u>
Manual Integrations for ICal?	<u>YES</u> / NO	Manual Integrations for Samples?	<u>Yes</u> / NO
Special Analysis Criteria Met?	YES / NO <u>NA</u>		

Bubbles/Headspace: None SM (≤ 2mm ●) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Gas ICU Targeted 2.5
BETA ICU Targeted 25

Additional Details on Reverse: Yes / No

Analyst: [Signature] ult Date: 7/30/10

Reviewer: [Signature] [Signature] Date: 7/30/10

Analytical Resources Inc.: Organics Instrument Log

PID-2 Serial No.: 33033A-33620

Date: 7/28/10 Analysis: NWTP46/BETX Analyst: MH
 GC Program: BETX1 Column No: 832017 Column Type: RTX502-2
 Instrument Tune (.U or .CT.): _____ EM Voltage: _____
 Calibration File: _____ Curve Date: 7/28/10

IS/SS	Ical/Ccal	LCS/ICV
<u>VW632-3</u>	<u>VW635-1</u>	<u>VW618-1</u>
	<u>VW644-3</u>	<u>VW631-3</u>
	<u>VW647-2</u>	

Time	Filename	LabID	ClientID	Vial#	pH	DF
1	0604	0728a001.d	RINSE			1
2	0629	0728a002.d	RT-BCAL 1			1
3	0655	0728a003.d	GCAL 1			1
4	0904	0728a004.d	RINSE			1
5	0930	0728a005.d	BETX .25			1
6	0956	0728a006.d	BETX .5			1
7	1022	0728a007.d	BETX 5			1
8	1048	0728a008.d	BETX 25			1
9	1114	0728a009.d	BETX 50			1
10	1140	0728a010.d	BETX 100			1
11	1206	0728a011.d	BETX 200			1
12	1232	0728a012.d	BETX ICV			1
13	1258	0728a013.d	RINSE			1
14	1324	0728a014.d	GAS .1			1
15	1350	0728a015.d	GAS .25			1
16	1416	0728a016.d	GAS 1			1
17	1442	0728a017.d	GAS 2.5			1
18	1508	0728a018.d	GAS 5			1
19	1534	0728a019.d	GAS 20			1
20	1600	0728a020.d	RINSE			1
21	1626	0728a021.d	GAS ICV			1

MH 7/30/10

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/pid2.i/072810-1.b

ARI Job No.: RINS Method: FID.m Instrument: pid2.i Date: 28-JUL-2010

Time	Filename	LabID	Clientid	DF	Manually Integrated Compounds
0604	0728a001.d	RINSE		1	NO MANUAL INTEGRATION
0629	0728a002.d	RT+BCAL 1		1	NO MANUAL INTEGRATION
0655	0728a003.d	GCAL 1		1	NO MANUAL INTEGRATION
0904	0728a004.d	RINSE		1	NO MANUAL INTEGRATION
0930	0728a005.d	BETX .25		1	NO MANUAL INTEGRATION
0956	0728a006.d	BETX .5		1	Toluene, TFT(Surr),
1022	0728a007.d	BETX 5		1	NO MANUAL INTEGRATION
1048	0728a008.d	BETX 25		1	NO MANUAL INTEGRATION
1114	0728a009.d	BETX 50		1	NO MANUAL INTEGRATION
1140	0728a010.d	BETX 100		1	NO MANUAL INTEGRATION
1206	0728a011.d	BETX 200		1	NO MANUAL INTEGRATION
1232	0728a012.d	BETX ICV		1	NO MANUAL INTEGRATION
1258	0728a013.d	RINSE		1	NO MANUAL INTEGRATION
1324	0728a014.d	GAS .1		1	nC9, Naphthalene, nC13,
1350	0728a015.d	GAS .25		1	nC13,
1416	0728a016.d	GAS 1		1	NO MANUAL INTEGRATION
1442	0728a017.d	GAS 2.5		1	NO MANUAL INTEGRATION
1508	0728a018.d	GAS 5		1	NO MANUAL INTEGRATION
1534	0728a019.d	GAS 20		1	NO MANUAL INTEGRATION
1600	0728a020.d	RINSE		1	NO MANUAL INTEGRATION
1626	0728a021.d	GAS ICV		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/pid2.i/072810-2.b

ARI Job No.: RINS Method: PIDB.m Instrument: pid2.i Date: 28-JUL-2010

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0504	0728a001.d	RINSE		1	NO MANUAL INTEGRATION
0629	0728a002.d	RT+BCAL 1		1	NO MANUAL INTEGRATION
0655	0728a003.d	GCAL 1		1	NO MANUAL INTEGRATION
0904	0728a004.d	RINSE		1	NO MANUAL INTEGRATION
0930	0728a005.d	BETX .25		1	Benzene, Toluene, Ethylbenzene, M/P-Xylene, O-Xylene, MTBE, TFT(Surr), BB(Surr),
0956	0728a006.d	BETX .5		1	Benzene, Toluene, Ethylbenzene, M/P-Xylene, O-Xylene, MTBE, TFT(Surr), BB(Surr),
1022	0728a007.d	BETX 5		1	Benzene, Toluene, M/P-Xylene, O-Xylene, MTBE, TFT(Surr), BB(Surr),
1048	0728a008.d	BETX 25		1	Benzene, Toluene, M/P-Xylene, MTBE, TFT(Surr), BB(Surr),
1114	0728a009.d	BETX 50		1	Benzene, Toluene, M/P-Xylene, O-Xylene, MTBE, TFT(Surr), BB(Surr),
1140	0728a010.d	BETX 100		1	Benzene, Toluene, O-Xylene, MTBE, TFT(Surr),
1206	0728a011.d	BETX 200		1	Benzene, Toluene, MTBE,
1232	0728a012.d	BETX ICV		1	NO MANUAL INTEGRATION
1259	0728a013.d	RINSE		1	NO MANUAL INTEGRATION
1324	0728a014.d	GAS .1		1	NO MANUAL INTEGRATION
1350	0728a015.d	GAS .25		1	NO MANUAL INTEGRATION
1416	0728a016.d	GAS 1		1	NO MANUAL INTEGRATION
1442	0728a017.d	GAS 2.5		1	NO MANUAL INTEGRATION
1508	0728a018.d	GAS 5		1	NO MANUAL INTEGRATION
1534	0728a019.d	GAS 20		1	NO MANUAL INTEGRATION

1600 0728a020.d RINSE

1

NO MANUAL INTEGRATION

1626 0728a021.d GAS ICV

1

NO MANUAL INTEGRATION

Analytical Resources Inc.
 BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/072810-1.b/0728a014.d
 Data file 2: /chem3/pid2.i/072810-2.b/0728a014.d
 Method: /chem3/pid2.i/072810-2.b/PIDB.m
 Instrument: pid2.i
 Gas Ical Date: 28-JUL-2010
 BETX Ical Date: 28-JUL-2010

ARI ID: GAS .1
 Client ID:
 Injection Date: 28-JUL-2010 13:24
 Matrix: WATER
 Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.176	-0.001	3976	66213	95.8	TFT(Surr)
14.798	0.000	2842	25946	94.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	64528	0.112
8015B (2MP-TMB)	145592	0.112
AKGas (nC6-nC10)	100578	0.113
NWGas (Tol-Nap)	68968	0.115

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.223	-0.002	1416	98.5	TFT(Surr)
14.824	-0.001	5581	96.0	BB(Surr)

AROMATICS (PID)

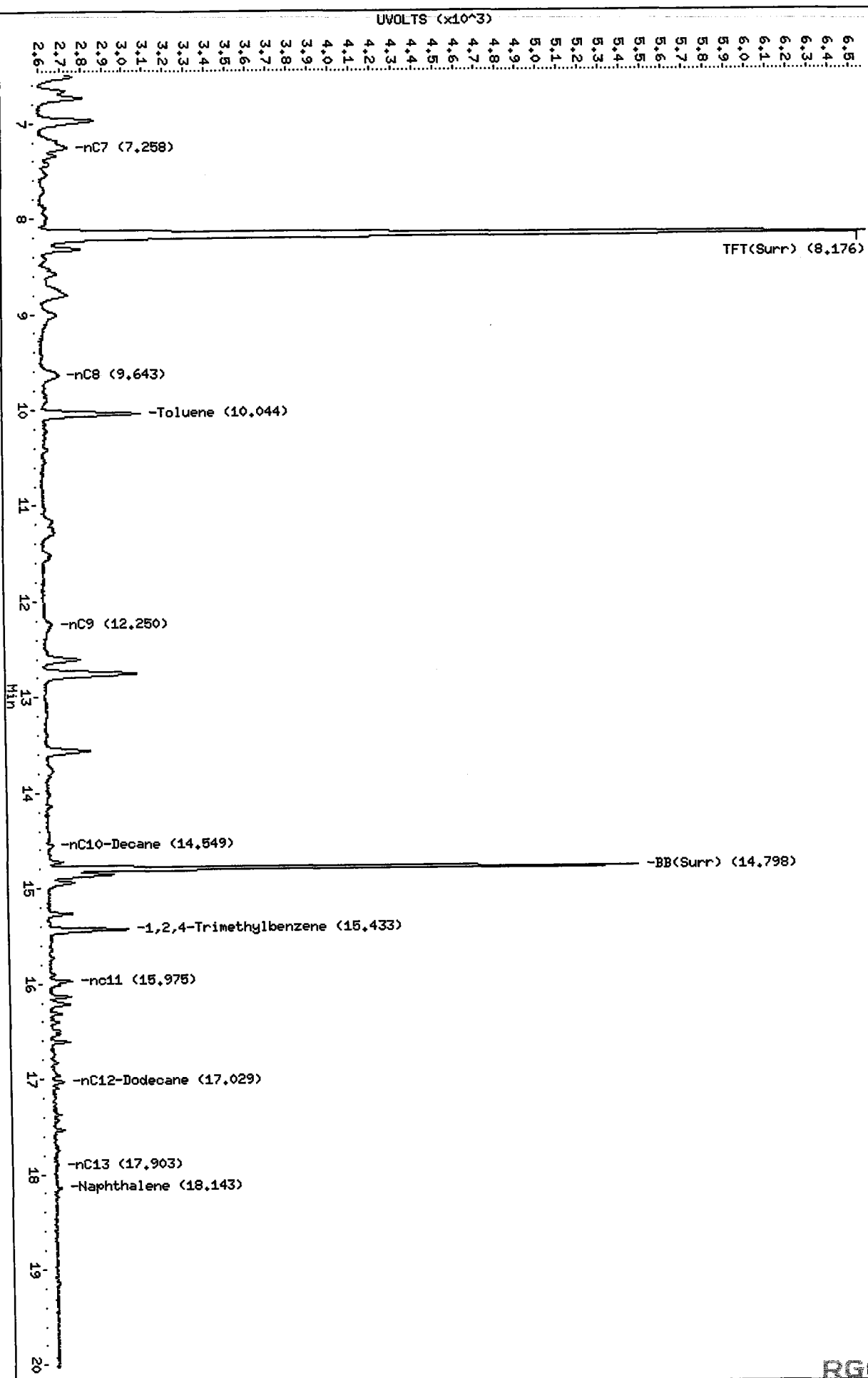
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
10.091	-0.003	285	2.75	Toluene
ND	---	---	---	Ethylbenzene
12.797	-0.005	318	3.28	M/P-Xylene
ND	---	---	---	O-Xylene
5.094	-0.006	398	9.48	MTBE

A Indicates Peak Area was used for quantitation instead of Height
 N Indicates peak peak was manually integrated

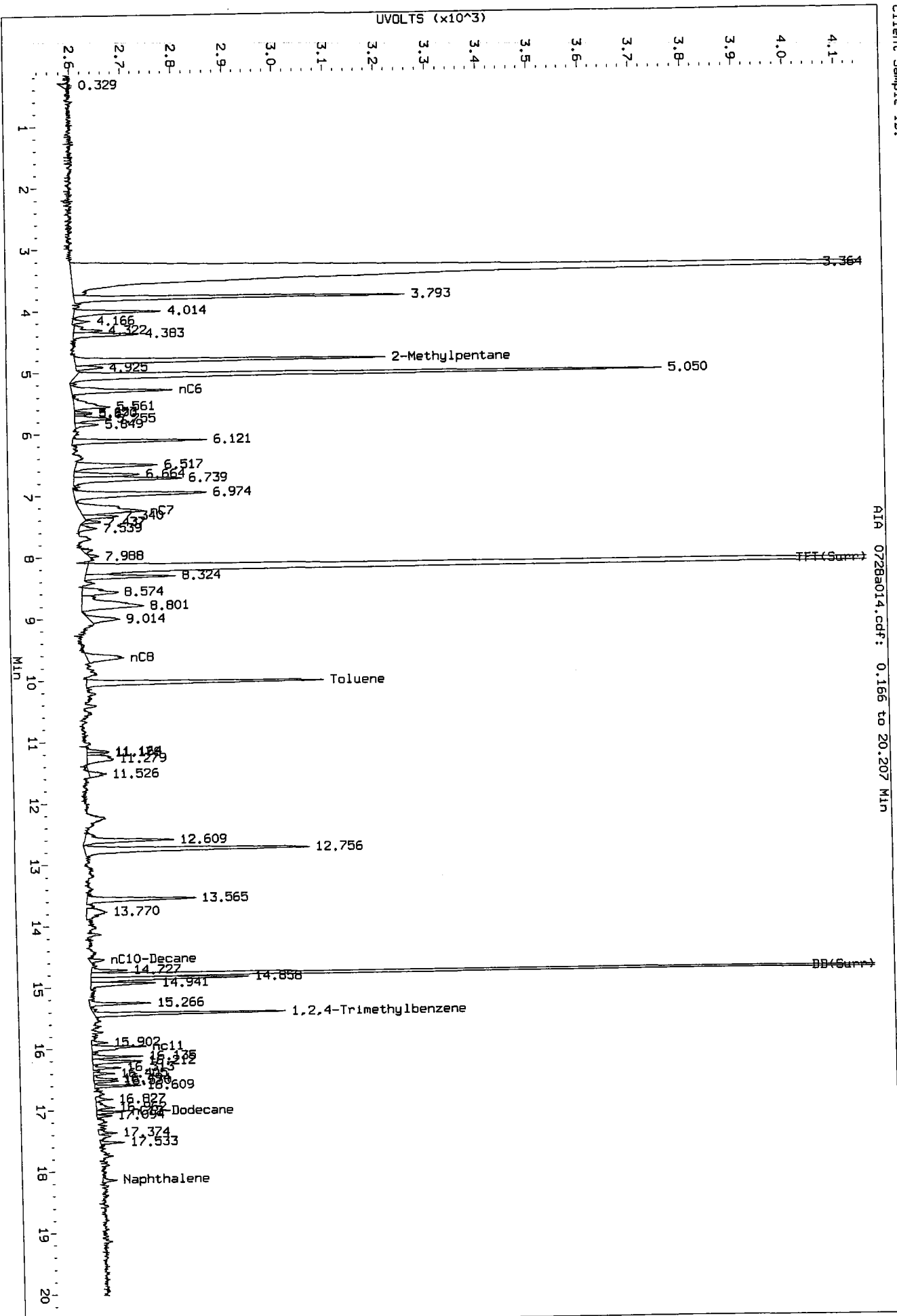
Data File: /chem3/pid2.i/072810-1.b/0728a014.d
Date : 28-JUL-2010 13:24
Client ID:
Sample Info: GAS .1
Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: HH
Column diameter: 0.18

/chem3/pid2.i/072810-1.b/0728a014.d/0728a014.cdf



Data File: /chem3/pid2.1/072810-1.b/0728a014.d/0728a014.cdf
 Injection Date: 28-JUL-2010 13:24
 Instrument: pid2.1
 Client Sample ID:



AIA 0728a014.cdf: 0.166 to 20.207 Min

Analytical Resources Inc.
 BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/072810-1.b/0728a015.d
 Data file 2: /chem3/pid2.i/072810-2.b/0728a015.d
 Method: /chem3/pid2.i/072810-2.b/PIDB.m
 Instrument: pid2.i
 Gas Ical Date: 28-JUL-2010
 BETX Ical Date: 28-JUL-2010

ARI ID: GAS .25
 Client ID:
 Injection Date: 28-JUL-2010 13:50
 Matrix: WATER
 Dilution Factor: 1.000

=====
 FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	---	---	---	---	-----
8.176	-0.001	4158	69618	100.2	TFT (Surr)
14.798	0.001	2982	27495	98.8	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
-----	-----	-----
WAGas (Tol-C12)	145090	0.252
8015B (2MP-TMB)	337846	0.259
AKGas (nC6-nC10)	228828	0.257
NWGas (Tol-Nap)	151421	0.252

* Surrogate areas are subtracted from Total Area
 =====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	---	---	---	-----
8.224	-0.002	1455	101.2	TFT (Surr)
14.824	-0.001	5909	101.6	BB (Surr)

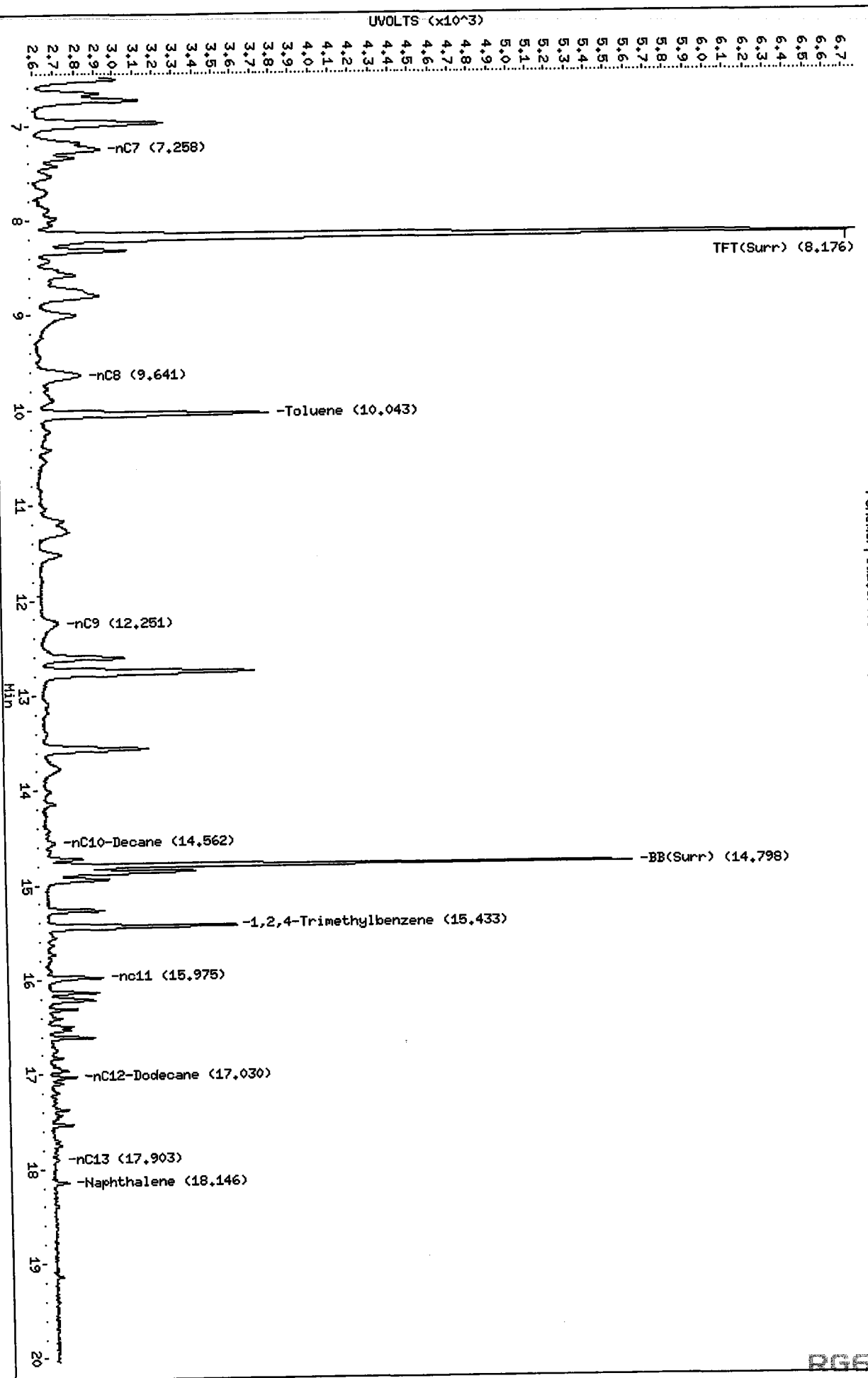
AROMATICS (PID)

RT	Shift	Response	Amount	Compound
--	---	---	---	-----
ND	---	---	---	Benzene
10.090	-0.004	713	6.87	Toluene
12.650	-0.006	237	2.07	Ethylbenzene
12.798	-0.005	806	8.32	M/P-Xylene
13.601	-0.004	359	3.54	O-Xylene
5.096	-0.004	968	23.06	MTBE

A Indicates Peak Area was used for quantitation instead of Height
 N Indicates peak peak was manually integrated

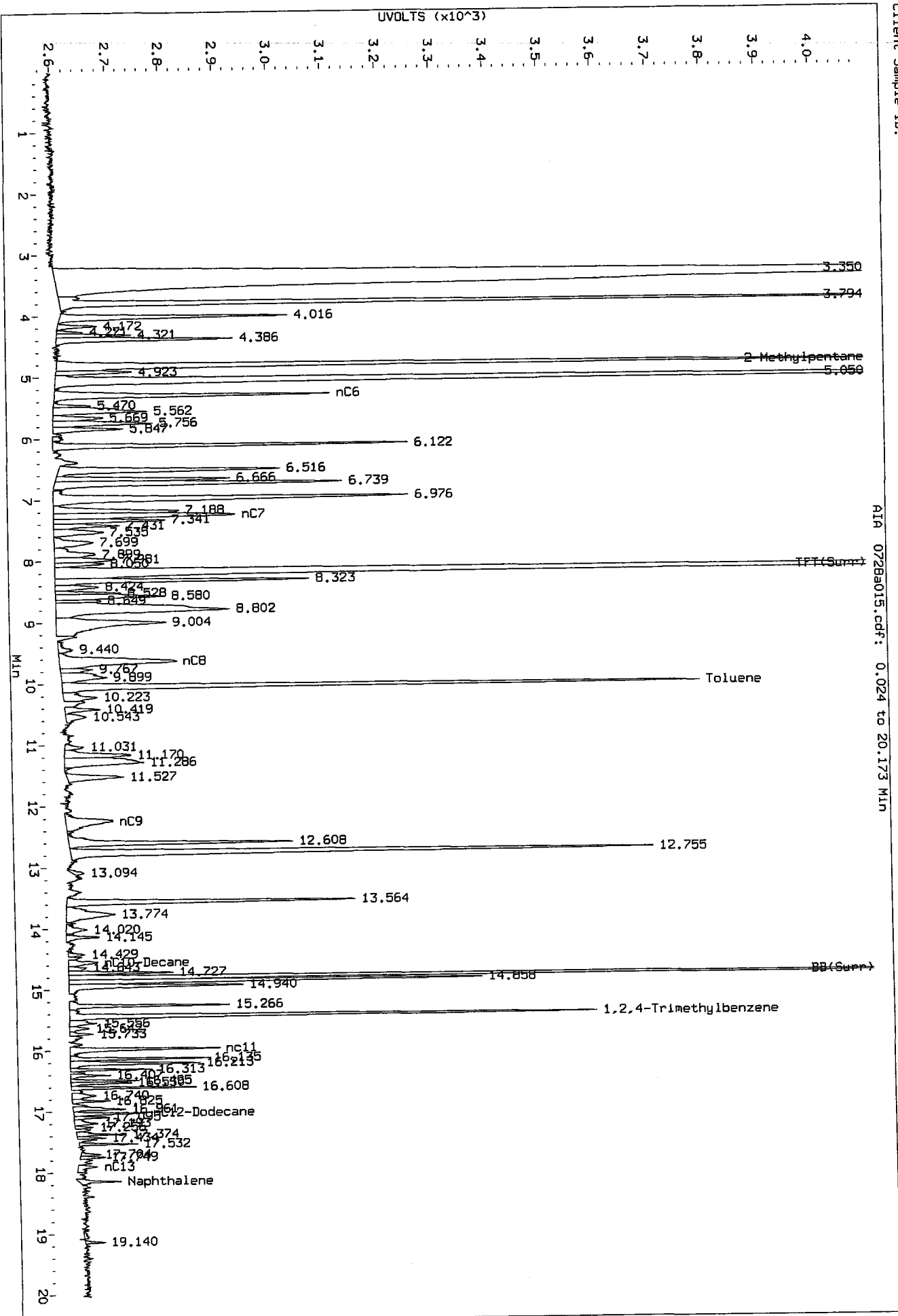
Data File: /chem3/pid2.1/072810-1.b/0728a015.d
Date: 28-JUL-2010 13:50
Client ID:
Sample Info: GAS .25
Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: MH
Column diameter: 0.18



/chem3/pid2.1/072810-1.b/0728a015.d/0728a015.cdf

Data File: /chem3/pid2.1/072810-1.b/0728a015.d/0728a015.cdf
 Injection Date: 28-JUL-2010 13:50
 Instrument: pid2.1
 Client Sample ID:



AIA 0728a015.cdf: 0.024 to 20.173 MIN

Analytical Resources Inc.
 BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/072810-1.b/0728a016.d
 Data file 2: /chem3/pid2.i/072810-2.b/0728a016.d
 Method: /chem3/pid2.i/072810-2.b/PIDB.m
 Instrument: pid2.i
 Gas Ical Date: 28-JUL-2010
 BETX Ical Date: 28-JUL-2010

ARI ID: GAS 1
 Client ID:
 Injection Date: 28-JUL-2010 14:16
 Matrix: WATER
 Dilution Factor: 1.000

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.175	-0.001	3997	66136	96.3	TFT (Surr)
14.798	0.001	2850	26572	94.4	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	562860	0.976
8015B (2MP-TMB)	1309436	1.004
AKGas (nC6-nC10)	886524	0.997
NWGas (Tol-Nap)	586542	0.974

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.223	-0.003	1399	97.3	TFT (Surr)
14.824	0.000	5508	94.7	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
7.478	-0.005	202	1.73	Benzene
10.089	-0.004	2948	28.42	Toluene
12.650	-0.006	993	8.66	Ethylbenzene
12.798	-0.005	3241	33.45	M/P-Xylene
13.602	-0.003	1404	13.83	O-Xylene
5.096	-0.004	3894	92.75	MTBE

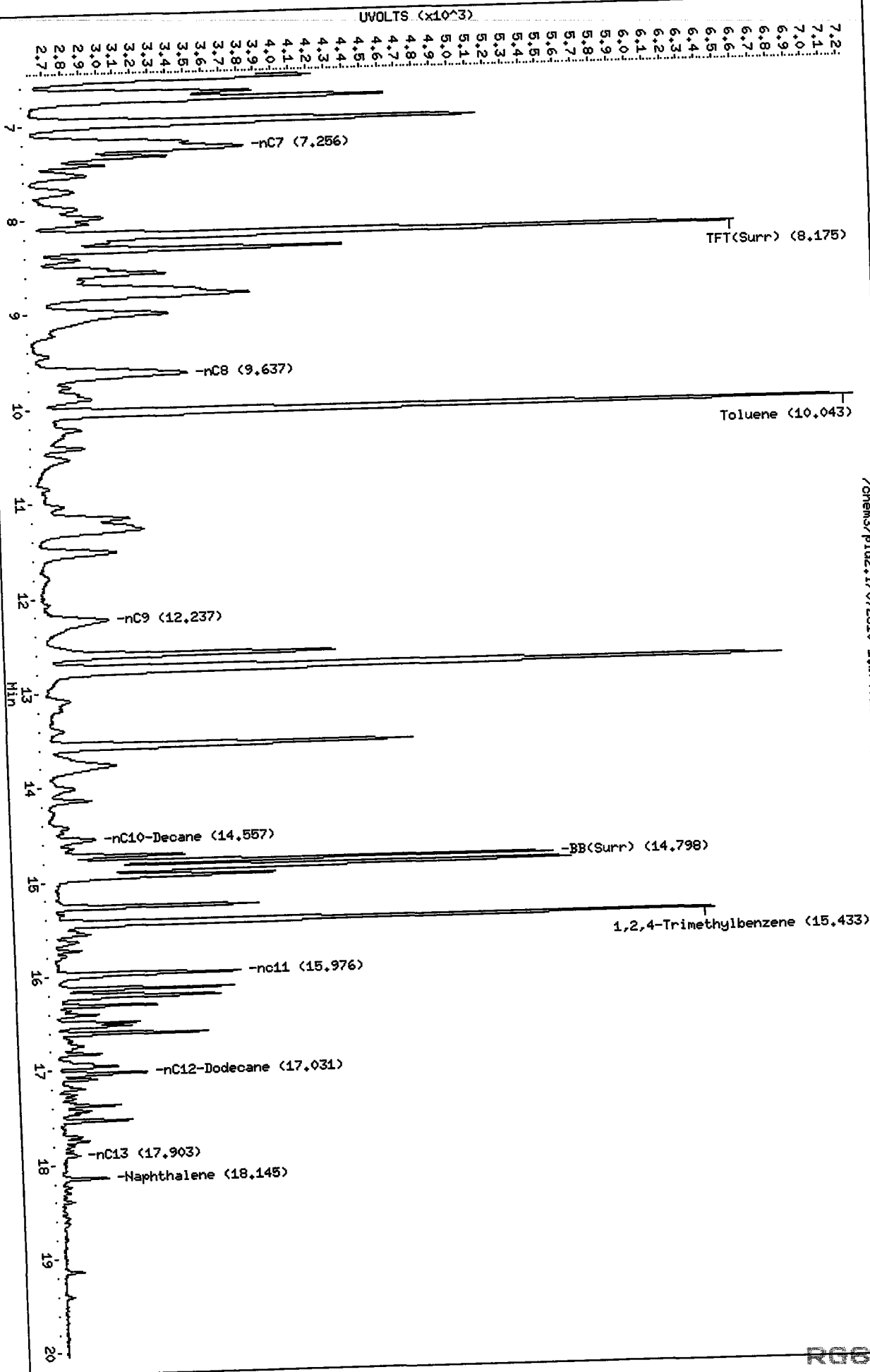
A Indicates Peak Area was used for quantitation instead of Height
 N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/072810-1.b/0728a016.d
Date: 28-JUL-2010 14:16
Client ID:
Sample Info: GAS 1

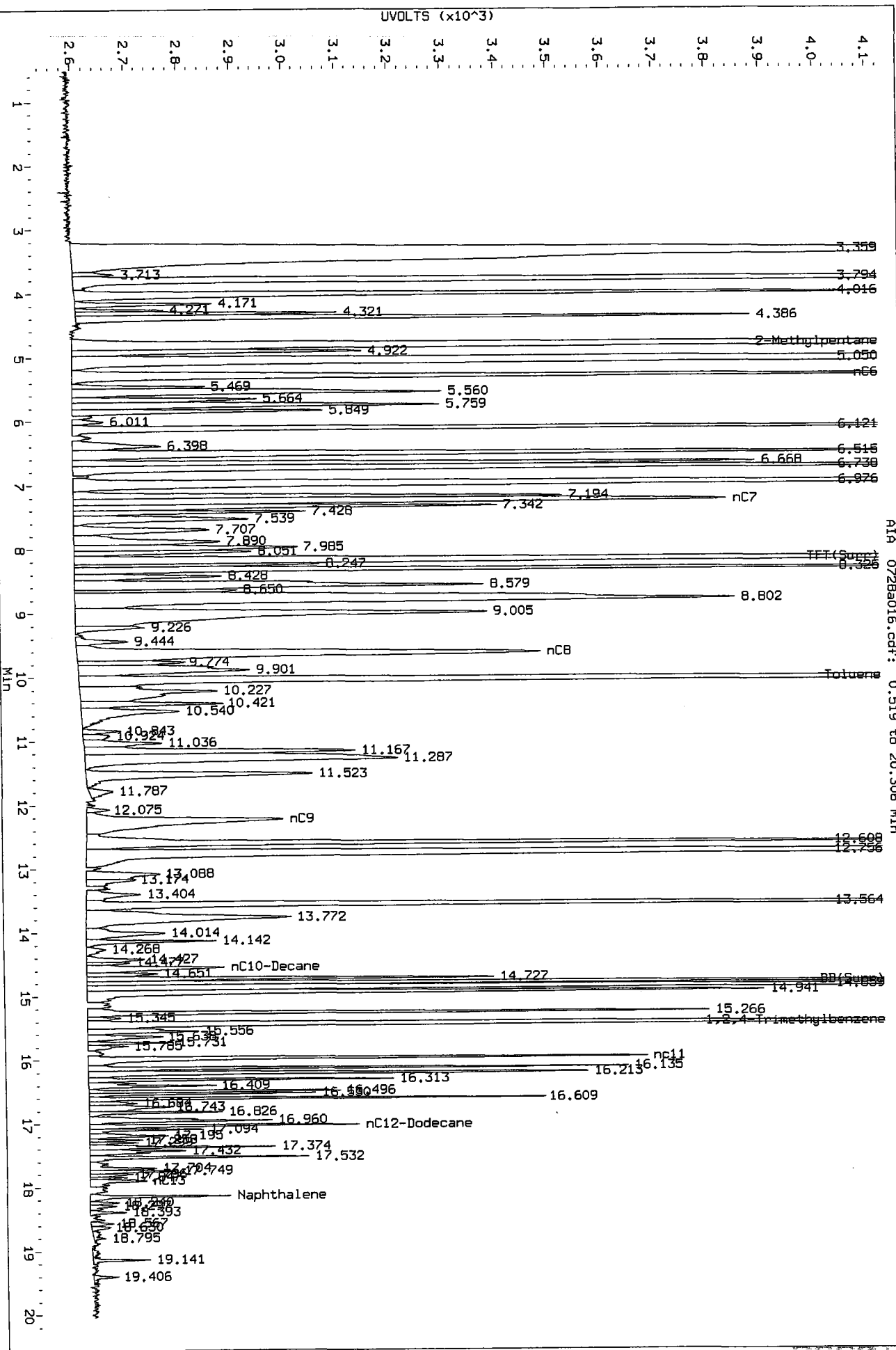
Instrument: pid2.i
Operator: HH
Column diameter: 0.18

Column phase: RTX 502-2 FID

/chem3/pid2.i/072810-1.b/0728a016.d/0728a016.cdf



Data File: /chem3/pid2.i/072810-1.b/0728a016.d/0728a016.cdf
 Injection Date: 28-JUL-2010 14:16
 Instrument: pid2.1
 Client Sample ID:



AIR 0728a016.cdf: 0.519 to 20.306 Min

Analytical Resources Inc.
 BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/072810-1.b/0728a017.d
 Data file 2: /chem3/pid2.i/072810-2.b/0728a017.d
 Method: /chem3/pid2.i/072810-2.b/PIDB.m
 Instrument: pid2.i
 Gas Ical Date: 28-JUL-2010
 BETX Ical Date: 28-JUL-2010

ARI ID: GAS 2.5
 Client ID:
 Injection Date: 28-JUL-2010 14:42
 Matrix: WATER
 Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.176	-0.001	4302	70595	103.6	TFT (Surr)
14.798	0.000	3065	29826	101.5	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	1399722	2.426
8015B (2MP-TMB)	3161184	2.423
AKGas (nC6-nC10)	2144321	2.412
NWGas (Tol-Nap)	1456098	2.419

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.224	-0.002	1473	102.5	TFT (Surr)
14.824	-0.001	5786	99.5	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
7.480	-0.003	578	4.96	Benzene
10.090	-0.004	7110	68.55	Toluene
12.650	-0.006	2425	21.16	Ethylbenzene
12.798	-0.005	7837	80.88	M/P-Xylene
13.601	-0.004	3439	33.87	O-Xylene
5.099	0.000	9262	220.60	MTBE

A Indicates Peak Area was used for quantitation instead of Height
 N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/072810-1.b/0728a017.d

Date: 28-JUL-2010 14:42

Client ID:

Sample Info: GAS 2.5

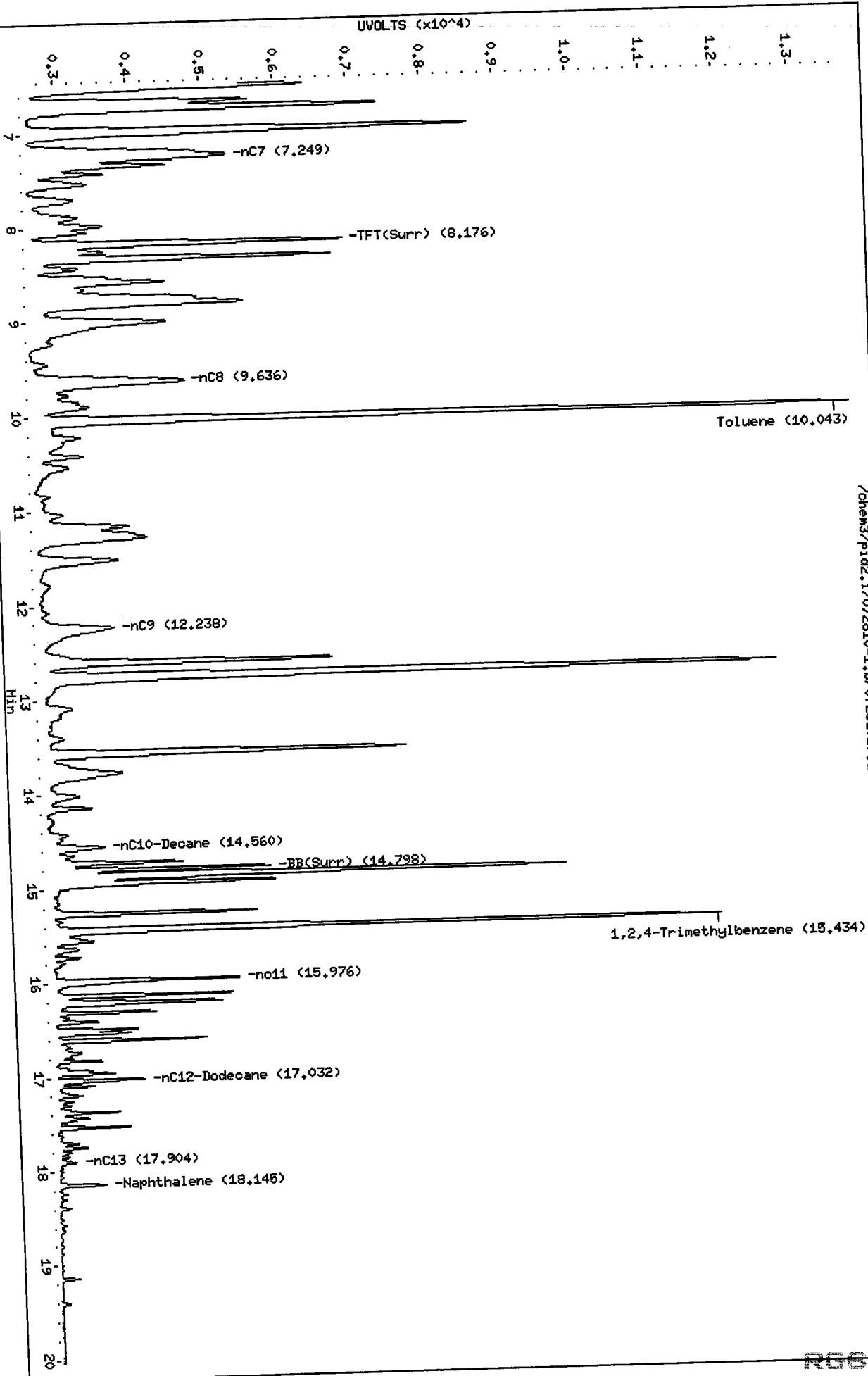
Column phase: RTX 502-2 FID

Instrument: pid2.i

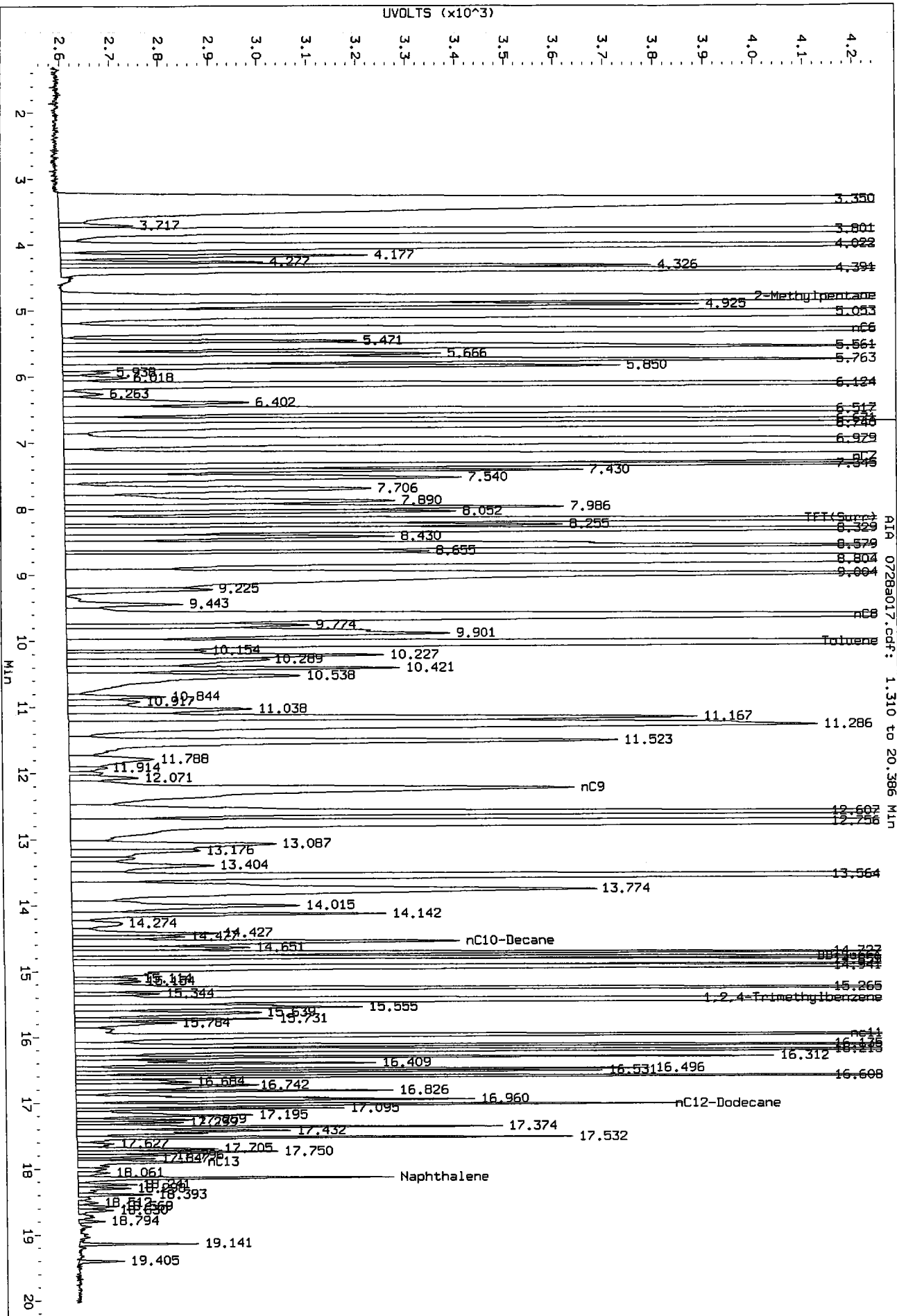
Operator: MH

Column diameter: 0.18

/chem3/pid2.i/072810-1.b/0728a017.d/0728a017.cdf



Data File: /chem3/pid2.1/072810-1.b/0728a017.d/0728a017.cdf
 Injection Date: 28-JUL-2010 14:42
 Instrument: pid2.1
 Client Sample ID:



AIA 0728a017.cdf: 1.310 to 20.386 MIN

Analytical Resources Inc.
 BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/072810-1.b/0728a018.d
 Data file 2: /chem3/pid2.i/072810-2.b/0728a018.d
 Method: /chem3/pid2.i/072810-2.b/PIDB.m
 Instrument: pid2.i
 Gas Ical Date: 28-JUL-2010
 BETX Ical Date: 28-JUL-2010

ARI ID: GAS 5
 Client ID:
 Injection Date: 28-JUL-2010 15:08
 Matrix: WATER
 Dilution Factor: 1.000

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	----	----	-----
8.178	0.001	4573	75790	110.1	TFT (Surr)
14.798	0.001	3308	33380	109.6	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
-----	-----	-----
WAGas (Tol-C12)	2850504	4.941
8015B (2MP-TMB)	6341363	4.860
AKGas (nC6-nC10)	4348496	4.890
NWGas (Tol-Nap)	2956550	4.911

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
8.226	0.000	1514	105.4	TFT (Surr)
14.824	0.000	5973	102.7	BB (Surr)

AROMATICS (PID)

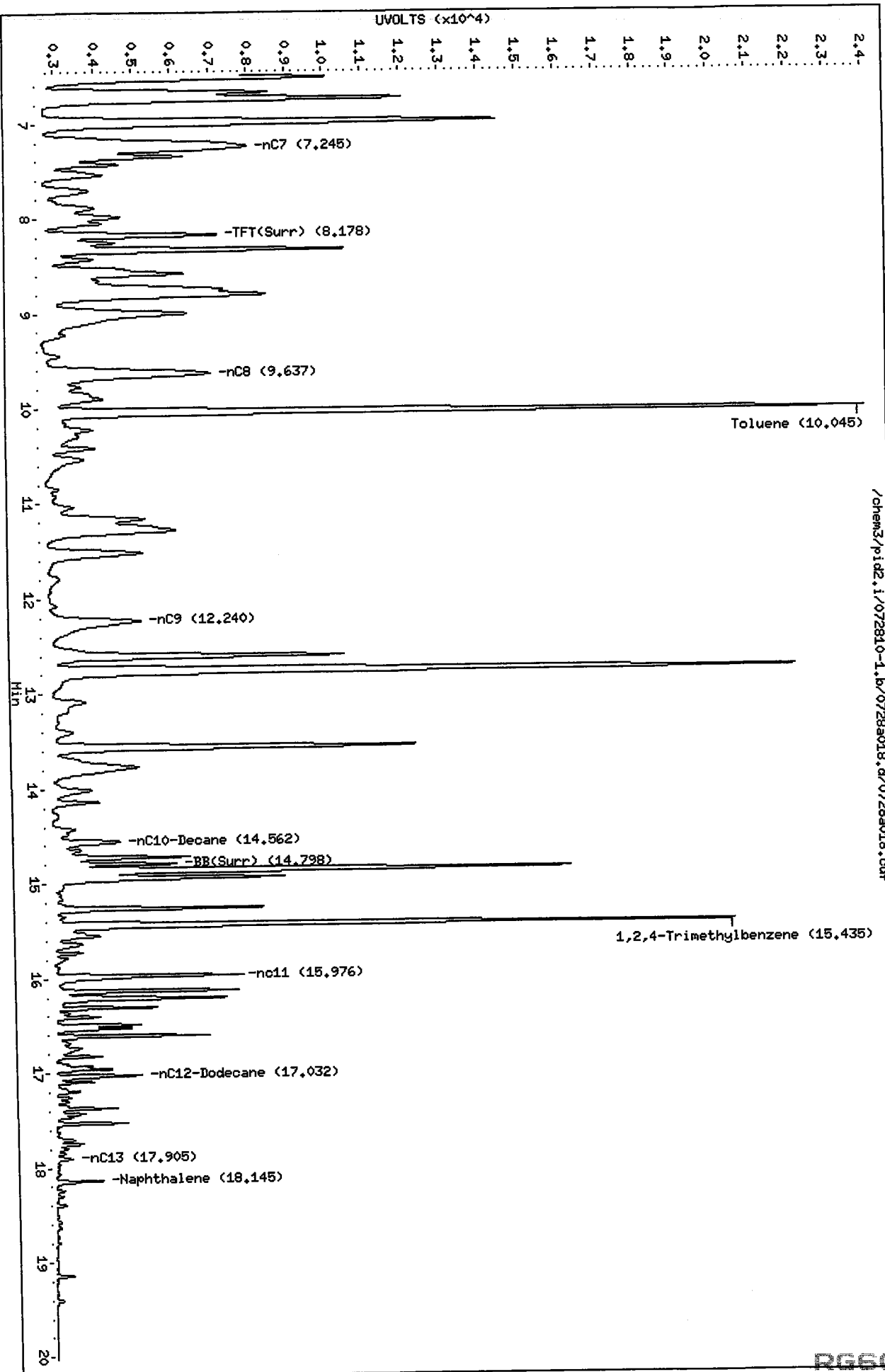
RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.483	0.000	1108	9.51	Benzene
10.092	-0.002	14105	135.99	Toluene
12.652	-0.004	4779	41.70	Ethylbenzene
12.800	-0.003	15512	160.08	M/P-Xylene
13.603	-0.002	6714	66.13	O-Xylene
5.105	0.005	17292	411.85	MTBE

A Indicates Peak Area was used for quantitation instead of Height
 N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/072810-1.b/0728a018.d
Date : 28-JUL-2010 15:08
Client ID:
Sample Info: GAS 5

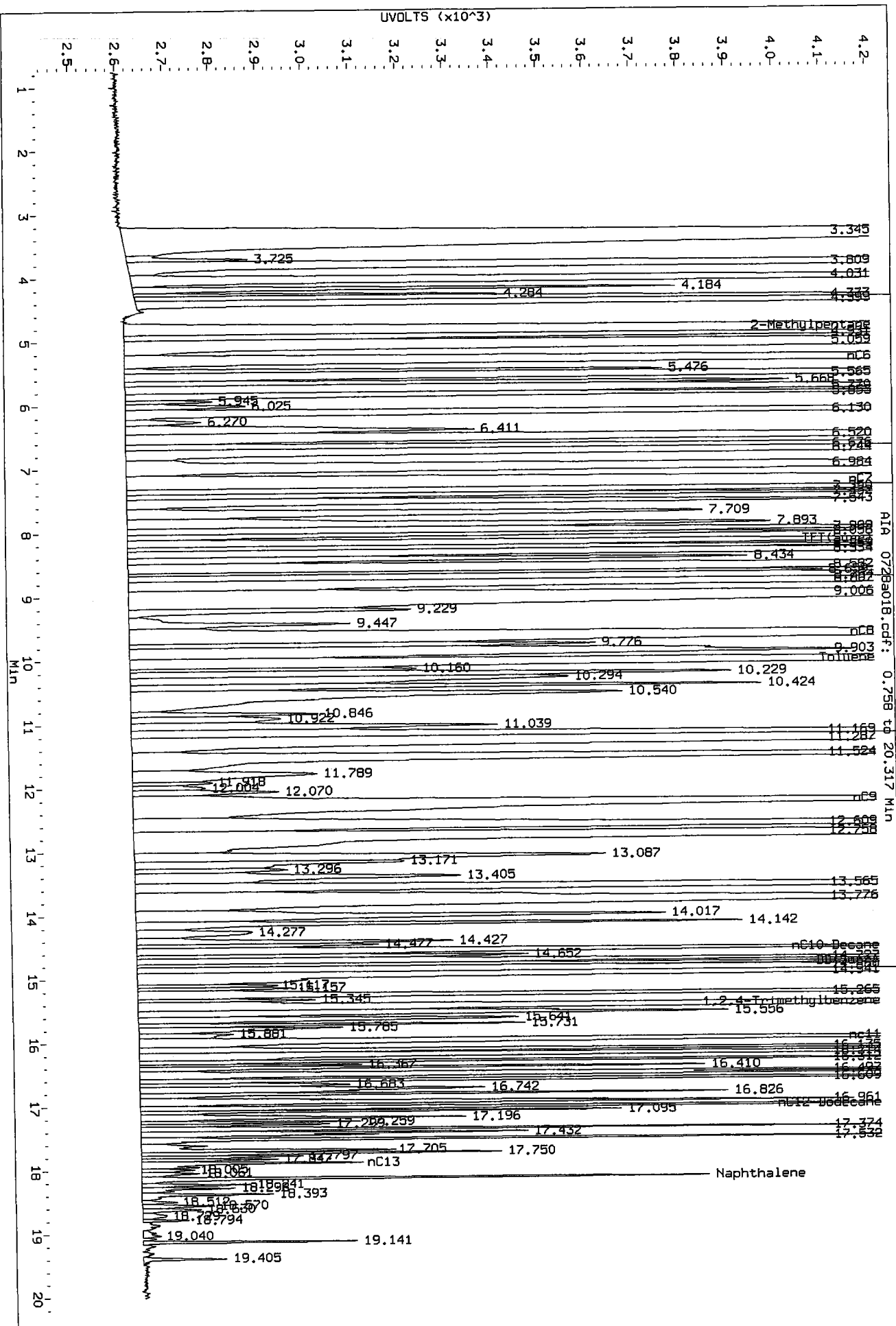
Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: MH
Column diameter: 0.18



/chem3/pid2.i/072810-1.b/0728a018.d/0728a018.cdf

Data File: /chem3/pid2.1/072810-1.b/0728a018.d/0728a018.cdf
 Injection Date: 28-JUL-2010 15:08
 Instrument: pid2.1
 Client Sample ID:



Analytical Resources Inc.
 BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/072810-1.b/0728a019.d
 Data file 2: /chem3/pid2.i/072810-2.b/0728a019.d
 Method: /chem3/pid2.i/072810-2.b/PIDB.m
 Instrument: pid2.i
 Gas Ical Date: 28-JUL-2010
 BETX Ical Date: 28-JUL-2010

ARI ID: GAS 20
 Client ID:
 Injection Date: 28-JUL-2010 15:34
 Matrix: WATER
 Dilution Factor: 1.000

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
---	-----	-----	-----	-----	-----
8.178	0.001	5733	96643	138.1	TFT(Surr)
14.798	0.001	4453	52847	147.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
-----	-----	-----
WAGas (Tol-C12)	10855160	18.817
8015B (2MP-TMB)	23588919	18.078
AKGas (nC6-nC10)	16001306	17.995
NWGas (Tol-Nap)	11122738	18.477

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
---	-----	-----	-----	-----
8.225	-0.001	1790	124.6	TFT(Surr)
14.826	0.002	6439	110.7	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
---	-----	-----	-----	-----
7.486	0.002	4617	39.65	Benzene
10.096	0.003	60197	580.37	Toluene
12.657	0.001	19280	168.21	Ethylbenzene
12.809	0.006	65293	673.82	M/P-Xylene
13.608	0.003	28202	277.77	O-Xylene
5.122	0.022	65267	1554.50	MTBE

A Indicates Peak Area was used for quantitation instead of Height
 N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/072810-1.b/0728a019.d

Date: 28-JUL-2010 15:34

Client ID:

Sample Info: GAS 20

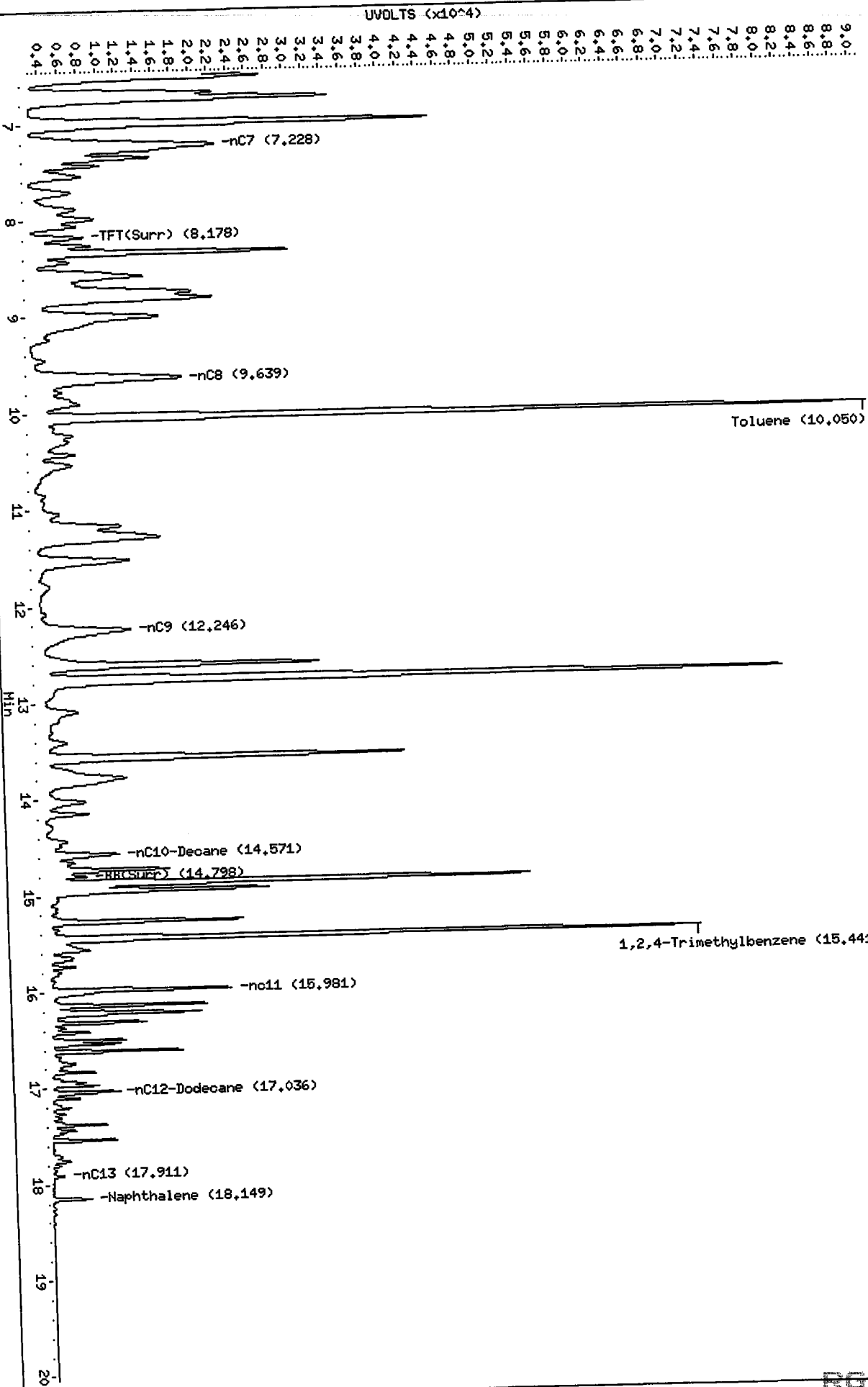
Instrument: pid2.i

Operator: MH

Column diameter: 0.18

Column phase: RTX 502-2 FID

/chem3/pid2.i/072810-1.b/0728a019.d/0728a019.cdf



Analytical Resources Inc.
 BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/072810-1.b/0728a021.d
 Data file 2: /chem3/pid2.i/072810-2.b/0728a021.d
 Method: /chem3/pid2.i/072810-2.b/PIDB.m
 Instrument: pid2.i
 Gas Ical Date: 28-JUL-2010
 BETX Ical Date: 28-JUL-2010

ARI ID: GAS ICV
 Client ID:
 Injection Date: 28-JUL-2010 16:26
 Matrix: WATER
 Dilution Factor: 1.000

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	----	----	-----
8.183	0.006	4084	68079	98.4	TFT (Surr)
14.800	0.002	2936	26233	97.3	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
-----	-----	-----
WAGas (Tol-C12)	1723268	2.987
8015B (2MP-TMB)	2869302	2.199
AKGas (nC6-nC10)	2201780	2.476
NWGas (Tol-Nap)	1751023	2.909

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
8.230	0.005	1416	98.5	TFT (Surr)
14.826	0.002	5739	98.7	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.487	0.004	3113	26.73	Benzene
10.097	0.004	21465	206.95	Toluene
12.656	0.000	4672	40.76	Ethylbenzene
12.804	0.001	15816	163.22	M/P-Xylene
13.606	0.001	6750	66.48	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
 N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/072810-1.b/0728a021.d

Date: 28-JUL-2010 16:26

Client ID:

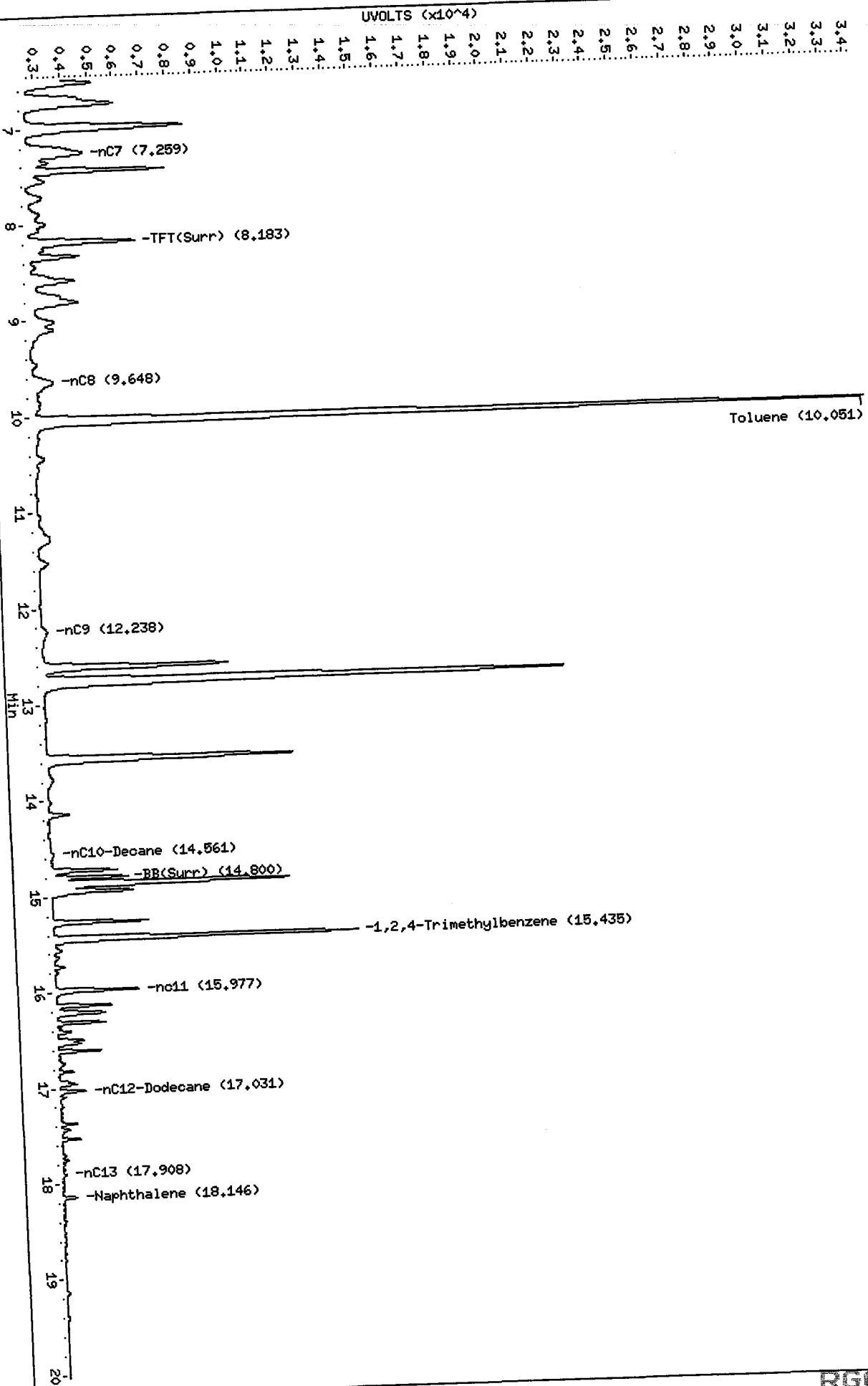
Sample Info: GAS ICV

Instrument: pid2.i

Operator: MH
Column diameter: 0.18

Column phase: RTX 502-2 FID

/chem3/pid2.i/072810-1.b/0728a021.d/0728a021.cdf



Report Date : 29-Jul-2010 11:34

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid2.i/072810-1.b/FID.m
Batch File: /chem3/pid2.i/072810-1.b
Inst ID: pid2.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
18 NWTPHG	+++++	+++++	+++++	+++++	+++++	+++++	0.492	0.422-0.562	+++++	+++++
20 WAGAS	+++++	+++++	+++++	+++++	+++++	+++++	0.937	0.867-1.007	+++++	+++++
19 AK101	+++++	+++++	+++++	+++++	+++++	+++++	1.251	1.181-1.321	+++++	+++++
21 8015GAS	+++++	+++++	+++++	+++++	+++++	+++++	1.539	1.469-1.609	+++++	+++++
1 2-Methylpentane	4.813	4.816	4.815	4.818	4.823	4.832	4.834	4.764-4.904	4.819	0.007
2 nC6	5.300	5.301	5.305	5.311	5.315	5.316	5.321	5.251-5.391	5.308	0.007
3 nC7	7.258	7.258	7.256	7.249	7.245	7.228	7.254	7.184-7.324	7.249	0.012
4 TPT(Surr)	8.176	8.176	8.175	8.176	8.178	8.178	8.177	8.107-8.247	8.177	0.001
5 nC8	9.643	9.641	9.637	9.636	9.637	9.639	9.659	9.589-9.729	9.639	0.003
6 Toluene	10.044	10.043	10.043	10.043	10.045	10.050	10.046	9.976-10.116	10.045	0.003
7 nC9	12.250	12.251	12.237	12.238	12.240	12.246	12.245	12.175-12.315	12.244	0.006
22 BFB(Surr)	+++++	+++++	+++++	+++++	+++++	+++++	16.027	15.957-16.097	+++++	+++++
8 nC10-Decane	14.549	14.562	14.557	14.560	14.562	14.571	14.563	14.493-14.633	14.560	0.007
9 BB(Surr)	14.798	14.798	14.798	14.798	14.798	14.798	14.797	14.727-14.867	14.798	0.000
10 1,2,4-Trimethylbenzene	15.433	15.433	15.433	15.434	15.435	15.441	15.438	15.368-15.508	15.435	0.003
11 nC11	15.975	15.975	15.976	15.976	15.976	15.981	16.014	15.944-16.084	15.977	0.002
12 nC12-Dodecane	17.029	17.030	17.031	17.032	17.032	17.036	17.048	16.978-17.118	17.032	0.002

Reviewer 1 MH Date: 7/29/10
Reviewer 2 [Signature] Date: 7/29/10

Report Date : 29-Jul-2010 11:34

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid2.i/072810-1.b/FID.m
Batch File: /chem3/pid2.i/072810-1.b
Inst ID: pid2.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
13 nCl3	17.903	17.903	17.903	17.904	17.905	17.911	17.890	17.820-17.960	17.905	0.003
14 Naphthalene	18.143	18.146	18.145	18.145	18.145	18.149	18.148	18.078-18.218	18.145	0.002

Report Date : 29-Jul-2010 10:30

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-JUL-2010 09:30
 End Cal Date : 28-JUL-2010 12:06
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem3/pid2.i/072810-2.b/PIDB.m
 Cal Date : 29-Jul-2010 10:17 monicah
 Curve Type : Average

Calibration File Names:

- Level 1: /chem3/pid2.i/072810-2.b/0728a005.d/0728a005.cdf
- Level 2: /chem3/pid2.i/072810-2.b/0728a006.d/0728a006.cdf
- Level 3: /chem3/pid2.i/072810-2.b/0728a007.d/0728a007.cdf
- Level 4: /chem3/pid2.i/072810-2.b/0728a008.d/0728a008.cdf
- Level 5: /chem3/pid2.i/072810-2.b/0728a009.d/0728a009.cdf
- Level 6: /chem3/pid2.i/072810-2.b/0728a010.d/0728a010.cdf
- Level 7: /chem3/pid2.i/072810-2.b/0728a011.d/0728a011.cdf

Compound	0.25000	0.50000	5.000	25.000	50.000	100.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	200.000							
	Level 7							
1 MTBE	44.00000 41.03000	44.00000	42.20000	41.80000	41.32000	39.55000	41.98571	3.826
2 Benzene	124 115	116	118	115	116	111	116	3.402
4 Toluene	120 106	96.00000	102	102	101	100	104	7.490
15 Chlorobenzene	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
5 Ethylbenzene	136 109	128	110	108	107	105	115	10.663
6 M/P-Xylene	84.00000 104	95.00000	101	99	97.50000	97.81000	96.89964	6.533

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-JUL-2010 09:30
 End Cal Date : 28-JUL-2010 12:06
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem3/pid2.i/072810-2.b/PIDB.m
 Cal Date : 29-Jul-2010 10:17 monicah
 Curve Type : Average

Compound	0.25000	0.50000	5.000	25.000	50.000	100.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	200.000							
	Level 7							
7 O-Xylene	80.00000 106	110	106	105	102	102	102	9.740
13 1,3,5 Trimethyl Benzene	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
14 1,2,4 Trimethyl Benzene	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
16 1,3 Dichlorobenzene	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
17 1,4 Dichlorobenzene	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
18 1,2 Dichlorobenzene	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
\$ 3 TFT(Surr)	15.31818 14.22500	14.15909	14.31343	14.24000	14.21805	14.12360	14.37105	2.936
\$ 19 BFB(Surr)	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
\$ 8 BB(Surr)	62.00000 55.53000	58.52273	58.86567	57.65000	57.45865	57.10112	58.16117	3.451

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-JUL-2010 09:30
 End Cal Date : 28-JUL-2010 12:06
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem3/pid2.i/072810-1.b/FID.m
 Cal Date : 28-Jul-2010 15:04 monicah
 Curve Type : Average

Compound	0.000e+00	0.000e+00	0.000e+00	0.000e+00	0.000e+00	0.000e+00	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	0.000e+00							
	Level 7							
14 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	+++++							
\$ 4 TFT (Surr)	45.63636	42.52273	41.85075	40.65000	40.39098	40.27528	41.51659	5.073
	39.29000							
\$ 22 BFB (Surr)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	+++++							
\$ 9 BB (Surr)	33.22727	31.04545	30.40299	29.69000	29.64662	29.08989	30.18603	5.362
	28.20000							

7/29/10
7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/072810-1.b/0728a002.d
Data file 2: /chem3/pid2.i/072810-2.b/0728a002.d
Method: /chem3/pid2.i/072810-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 28-JUL-2010

ARI ID: RT+BCAL 1
Client ID:
Injection Date: 28-JUL-2010 06:29
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.187	0.010	4132	68784	99.5	TFT (Surr)
14.805	0.007	3016	27442	99.9	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	754578	1.308
8015B (2MP-TMB)	1059107	0.812
AKGas (nC6-nC10)	754838	0.849
NWGas (Tol-Nap)	805197	1.338

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.235	0.009	1481	103.1	TFT (Surr)
14.831	0.006	5941	102.1	BB (Surr)

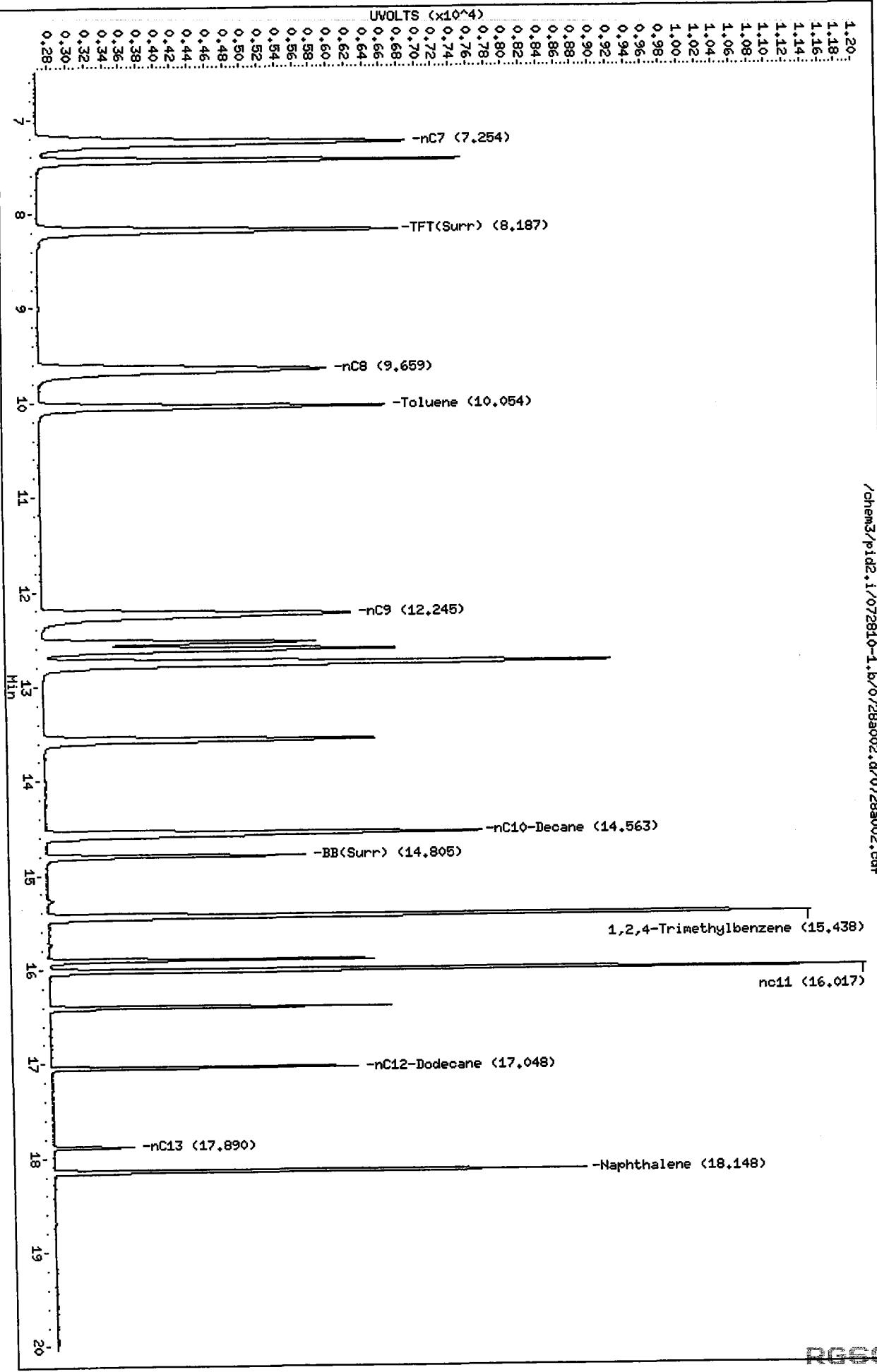
AROMATICS (PID)

RT	Shift	Response	Amount	Compound
7.493	0.010	2893	24.84	Benzene
10.101	0.007	2542	24.51	Toluene
12.661	0.005	2709	23.64	Ethylbenzene
12.806	0.003	5087	52.50	M/P-Xylene
13.610	0.005	2678	26.38	O-Xylene
5.108	0.008	1047	24.94	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/072810-1.b/0728a002.d
Date : 28-JUL-2010 06:29
Client ID:
Sample Info: RT+BCAL 1
Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: MH
Column diameter: 0.18



Data File: /chem3/pid2.i/072810-2.b/0728a002.d

Date: 28-JUL-2010 06:29

Client ID:

Sample Info: RT+BCAL 1

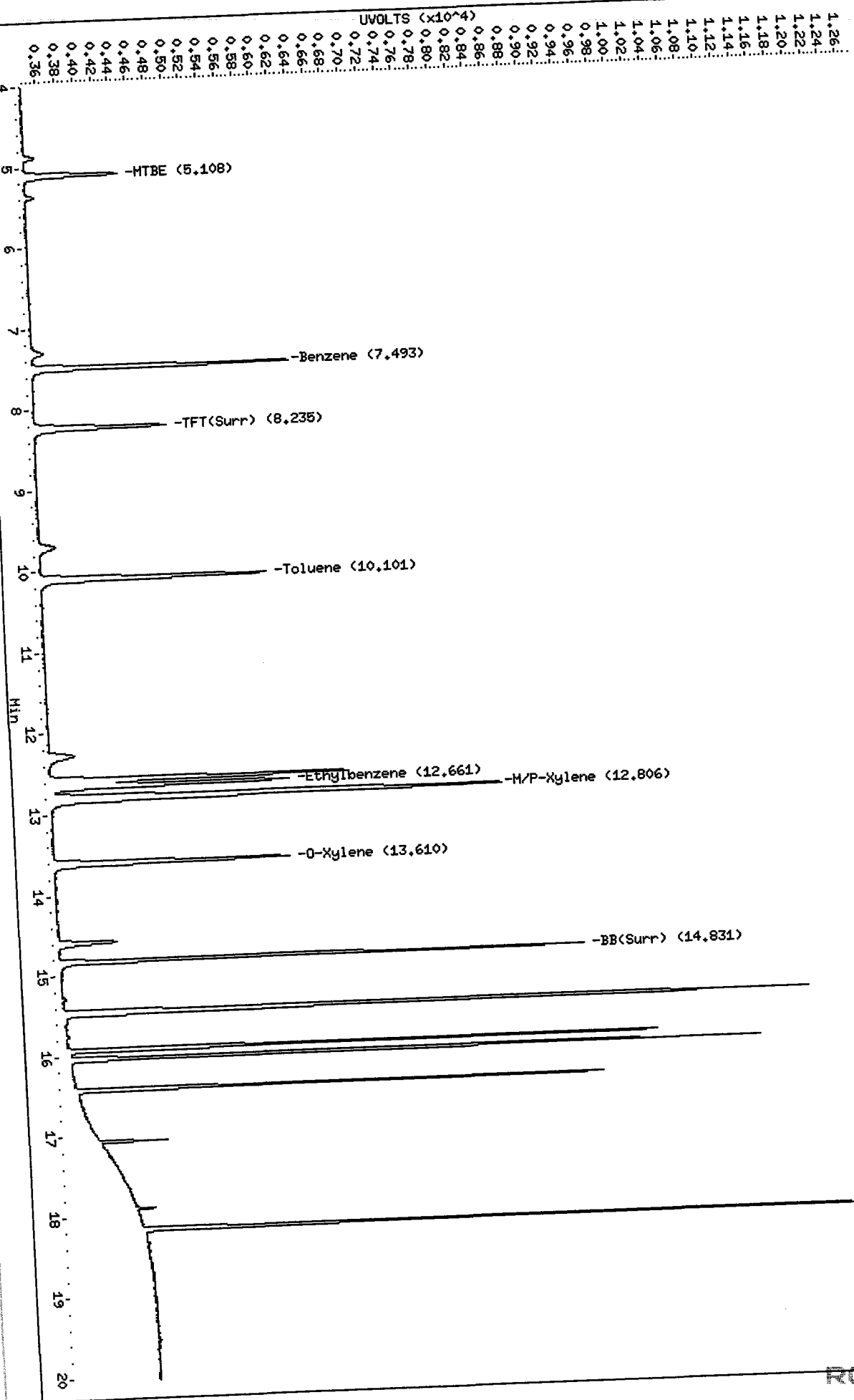
Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: MH

Column diameter: 0.18

/chem3/pid2.i/072810-2.b/0728a002.d/0728a002.cdf



MH
7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/072810-1.b/0728a005.d
Data file 2: /chem3/pid2.i/072810-2.b/0728a005.d
Method: /chem3/pid2.i/072810-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 28-JUL-2010

ARI ID: BETX .25
Client ID:
Injection Date: 28-JUL-2010 09:30
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.186	0.009	1004	17704	24.2	TFT (Surr)
14.805	0.007	731	6984	24.2	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	7288	0.013
8015B (2MP-TMB)	7236	0.006
AKGas (nC6-nC10)	6650	0.007
NWGas (Tol-Nap)	7288	0.012

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.237	0.011	337	23.4	TFT (Surr)
14.830	0.005	1364	23.5	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
7.490	0.007	31	0.27N	Benzene
10.093	0.000	30	0.29N	Toluene
12.660	0.004	34	0.30N	Ethylbenzene
12.813	0.011	42	0.43N	M/P-Xylene
13.617	0.012	20	0.20N	O-Xylene
5.117	0.017	11	0.26N	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/072810-1.b/0728a005.d

Date: 28-JUL-2010 09:30

Client ID:

Sample Info: BETX .25

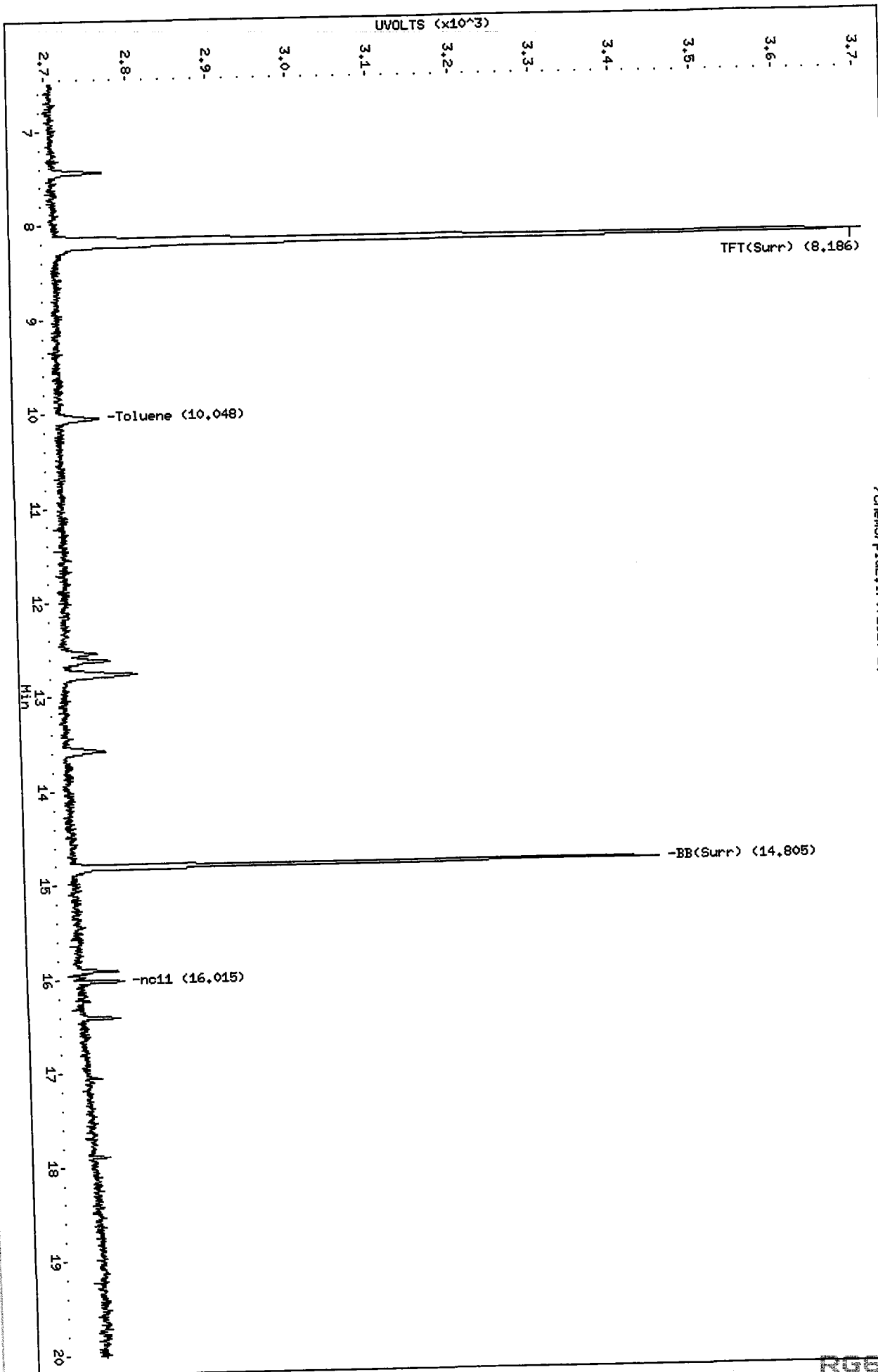
Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: MH

Column diameter: 0.18

/chem3/pid2.i/072810-1.b/0728a005.d/0728a005.cdf

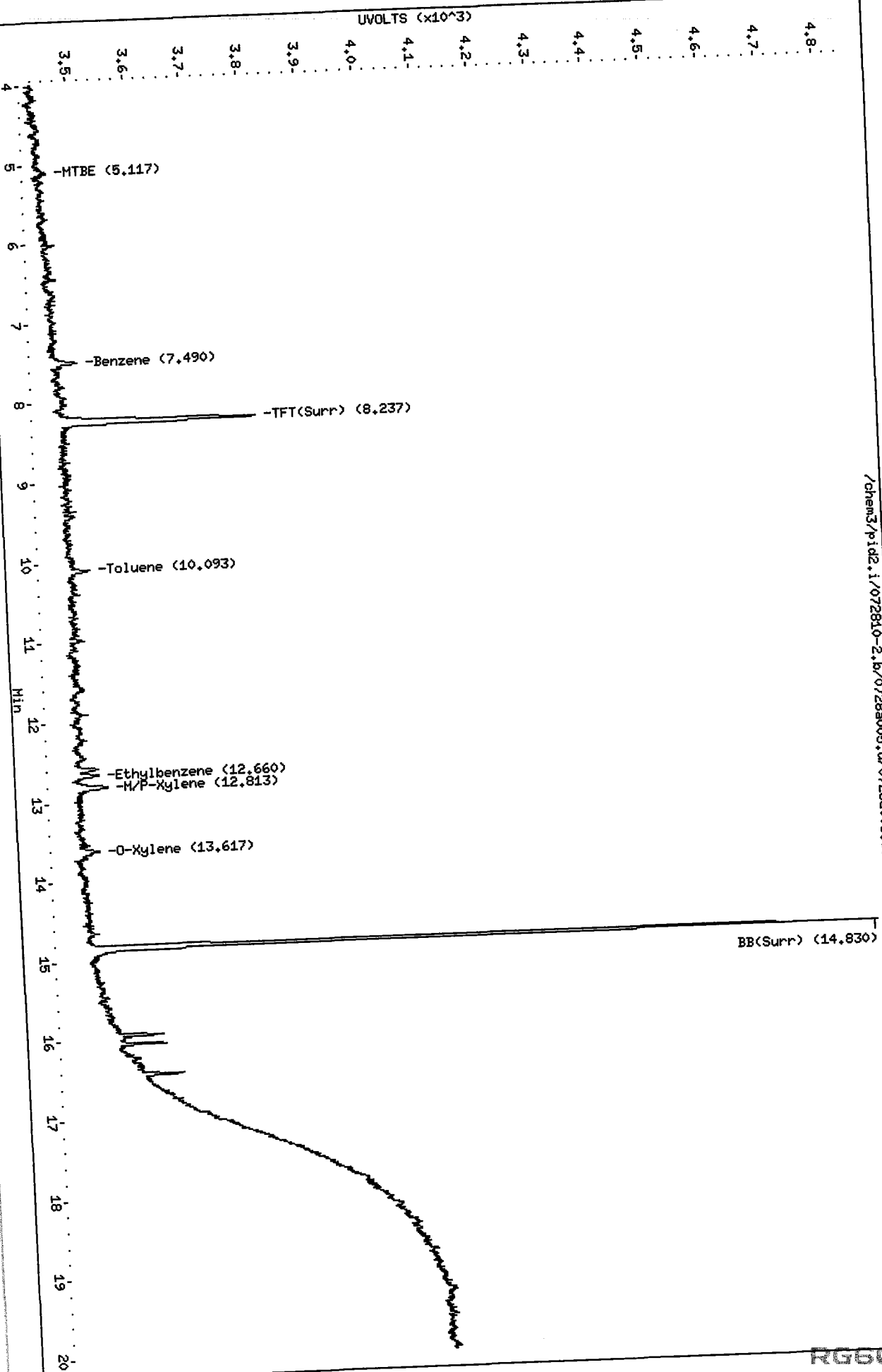


Data File: /chem3/pid2.i/072810-2.b/0728a005.d
Date: 28-JUL-2010 09:30
Client ID:
Sample Info: BETX.25

Instrument: pid2.i
Operator: HH
Column diameter: 0.18

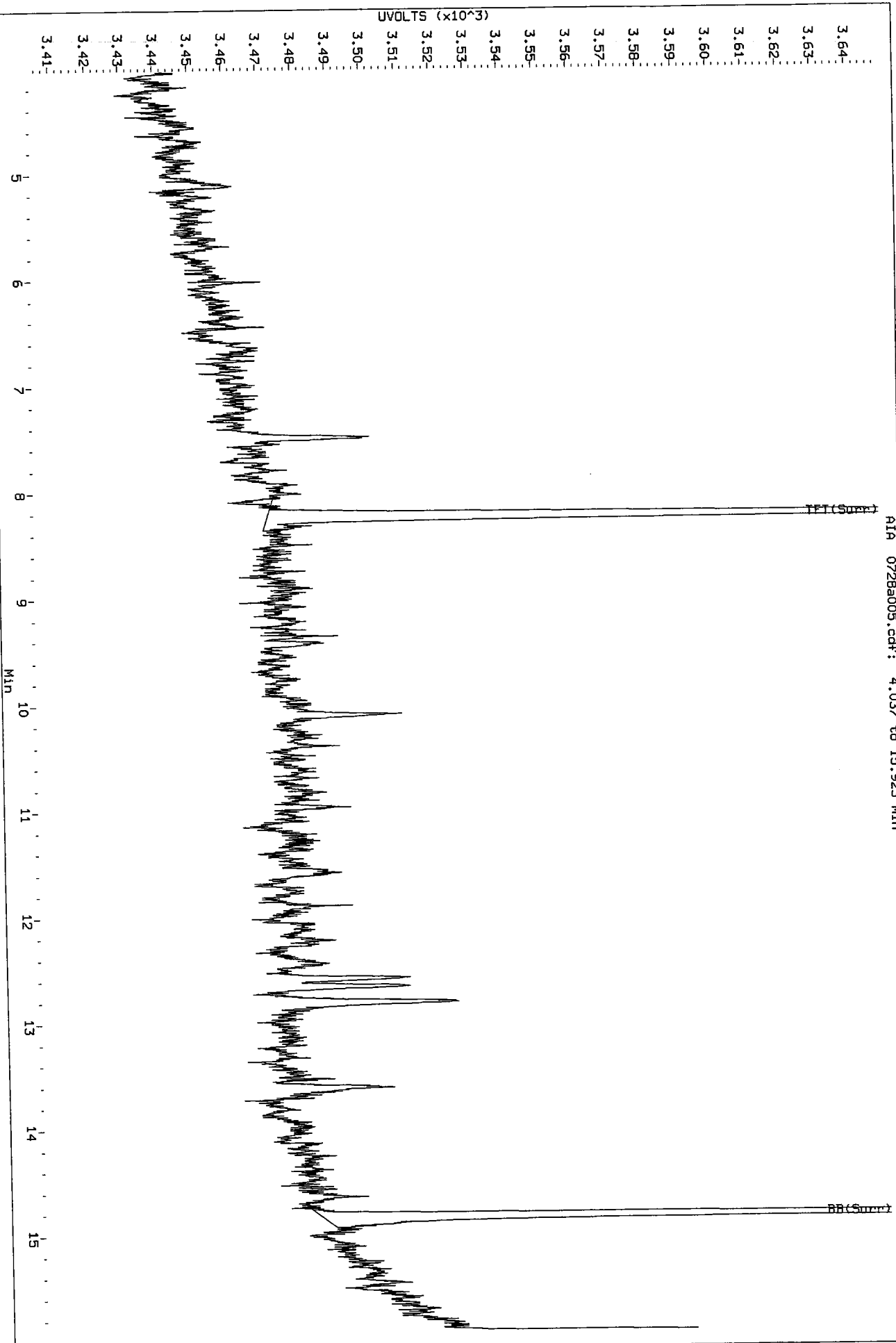
Column phase: RTX 502-2 PID

/chem3/pid2.i/072810-2.b/0728a005.d/0728a005.cdf



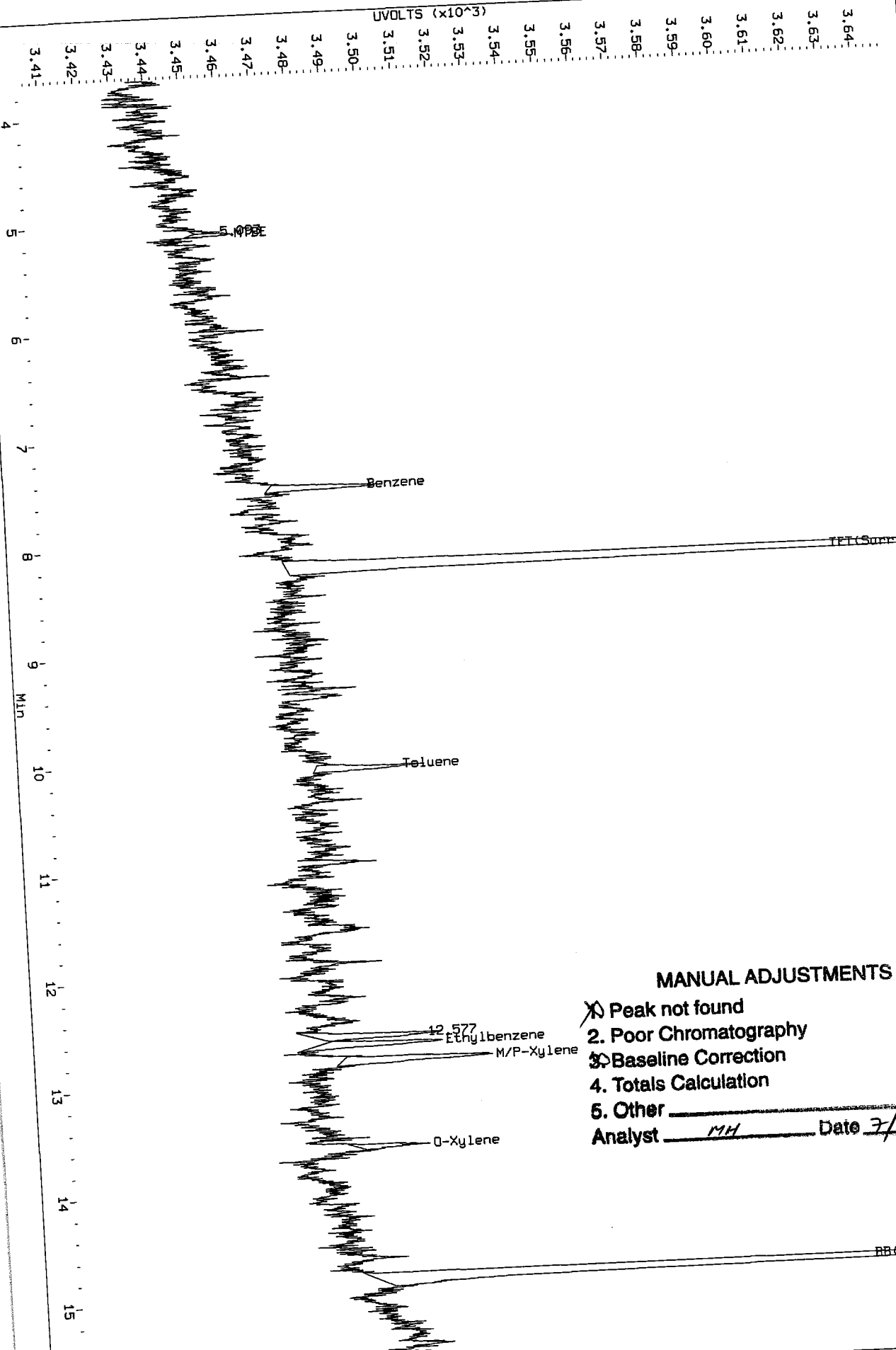
HW
x/2010

Data File: /chem3/pid2.1/072810-2.b/0728a005.d/0728a005.cdf
Injection Date: 28-JUL-2010 09:30
Instrument: pid2.1
Client Sample ID:



Data File: /chem3/pld2.1/072810-2.b/0728a005.d/0728a005.cdf
 Injection Date: 28-JUL-2010 09:30
 Instrument: pld2.1
 Client Sample ID:

RI 0728a005.cdf: 3.668 to 15.567 Min



MANUAL ADJUSTMENTS

- Peak not found
- 2. Poor Chromatography
- Baseline Correction
- 4. Totals Calculation
- 5. Other

Analyst MH Date 7/29/10

MH
7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/072810-1.b/0728a006.d
Data file 2: /chem3/pid2.i/072810-2.b/0728a006.d
Method: /chem3/pid2.i/072810-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 28-JUL-2010

ARI ID: BETX .5
Client ID:
Injection Date: 28-JUL-2010 09:56
Matrix: WATER
Dilution Factor: 1.000

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FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.183	0.007	1871	31844	45.1	TFT (Surr)
14.803	0.006	1366	12485	45.3	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	10591	0.018
8015B (2MP-TMB)	11287	0.009
AKGas (nC6-nC10)	10286	0.012
NWGas (Tol-Nap)	10591	0.018

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.230	0.004	623	43.4	TFT (Surr)
14.830	0.005	2575	44.3	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
7.483	0.000	58	0.50N	Benzene
10.090	-0.003	48	0.46N	Toluene
12.660	0.004	64	0.56N	Ethylbenzene
12.810	0.007	95	0.98N	M/P-Xylene
13.603	-0.002	55	0.54N	O-Xylene
5.110	0.010	22	0.52N	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/072810-1.b/0728a006.d

Date : 28-JUL-2010 09:56

Client ID:

Sample Info: BETX .5

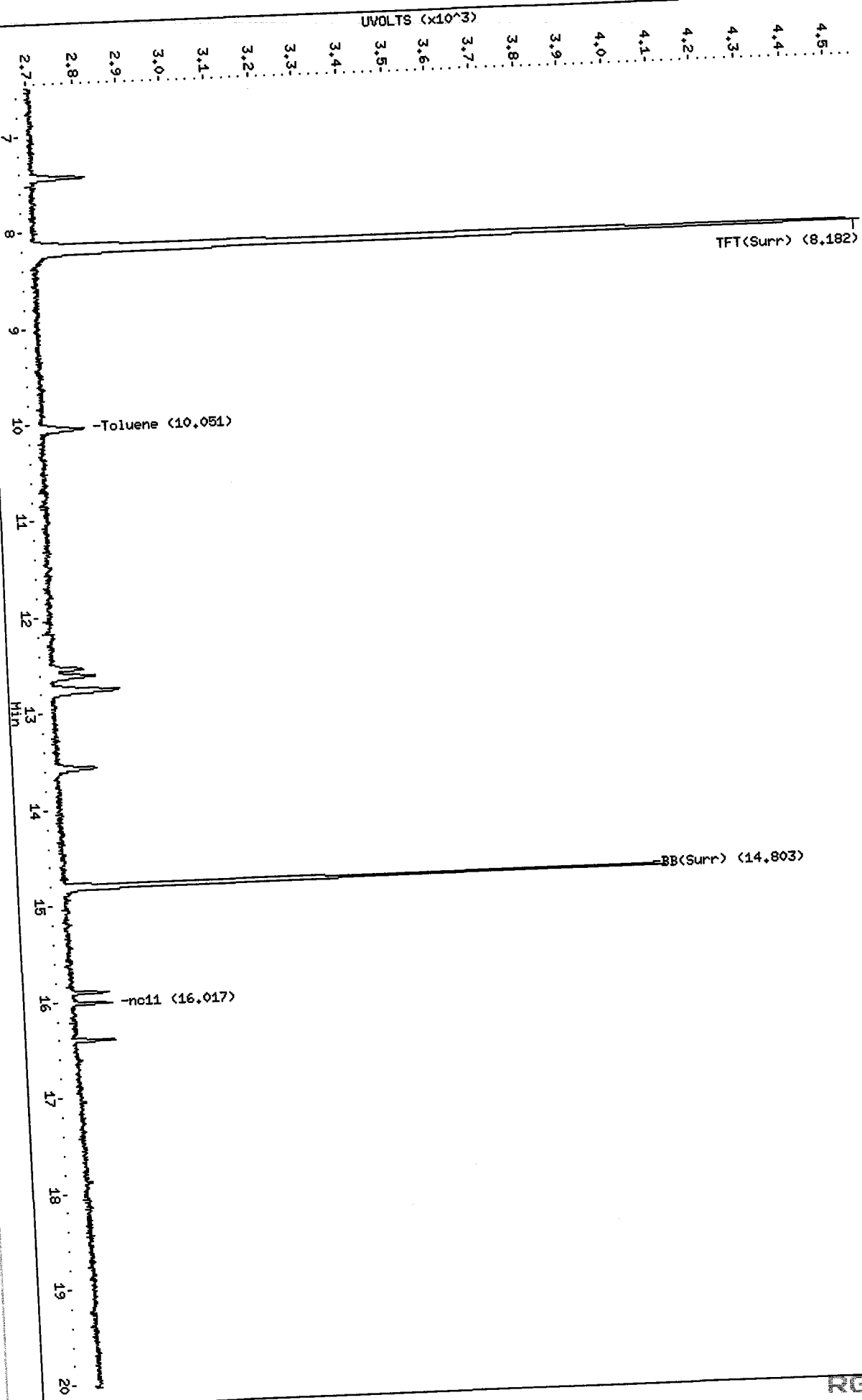
Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: MH

Column diameter: 0.18

/chem3/pid2.i/072810-1.b/0728a006.d/0728a006.cdf



Data File: /chem3/pid2.i/072810-2.b/0728a006.d

Date: 28-JUL-2010 09:56

Client ID:

Sample Info: BETX .5

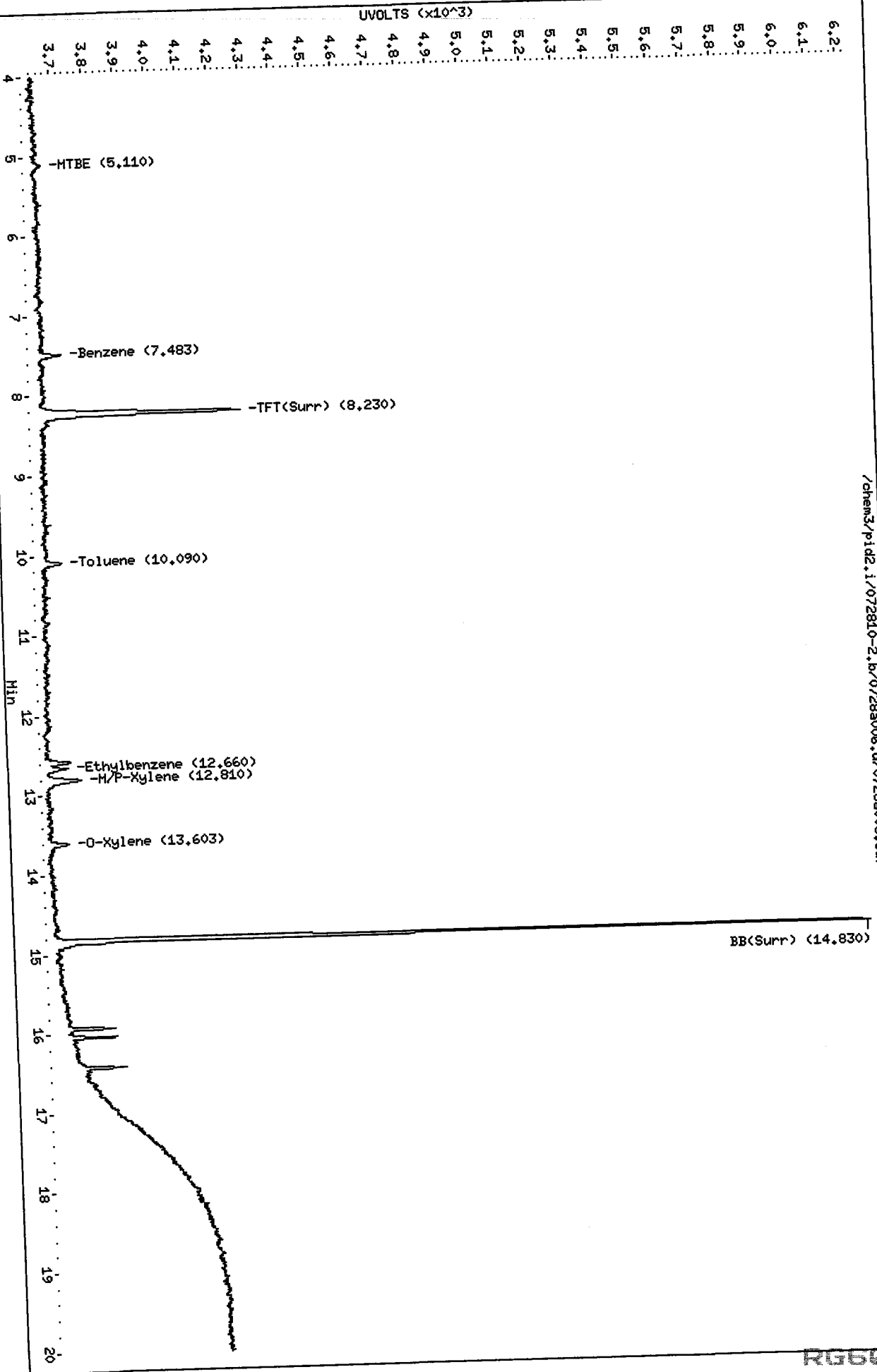
Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: HH

Column diameter: 0.18

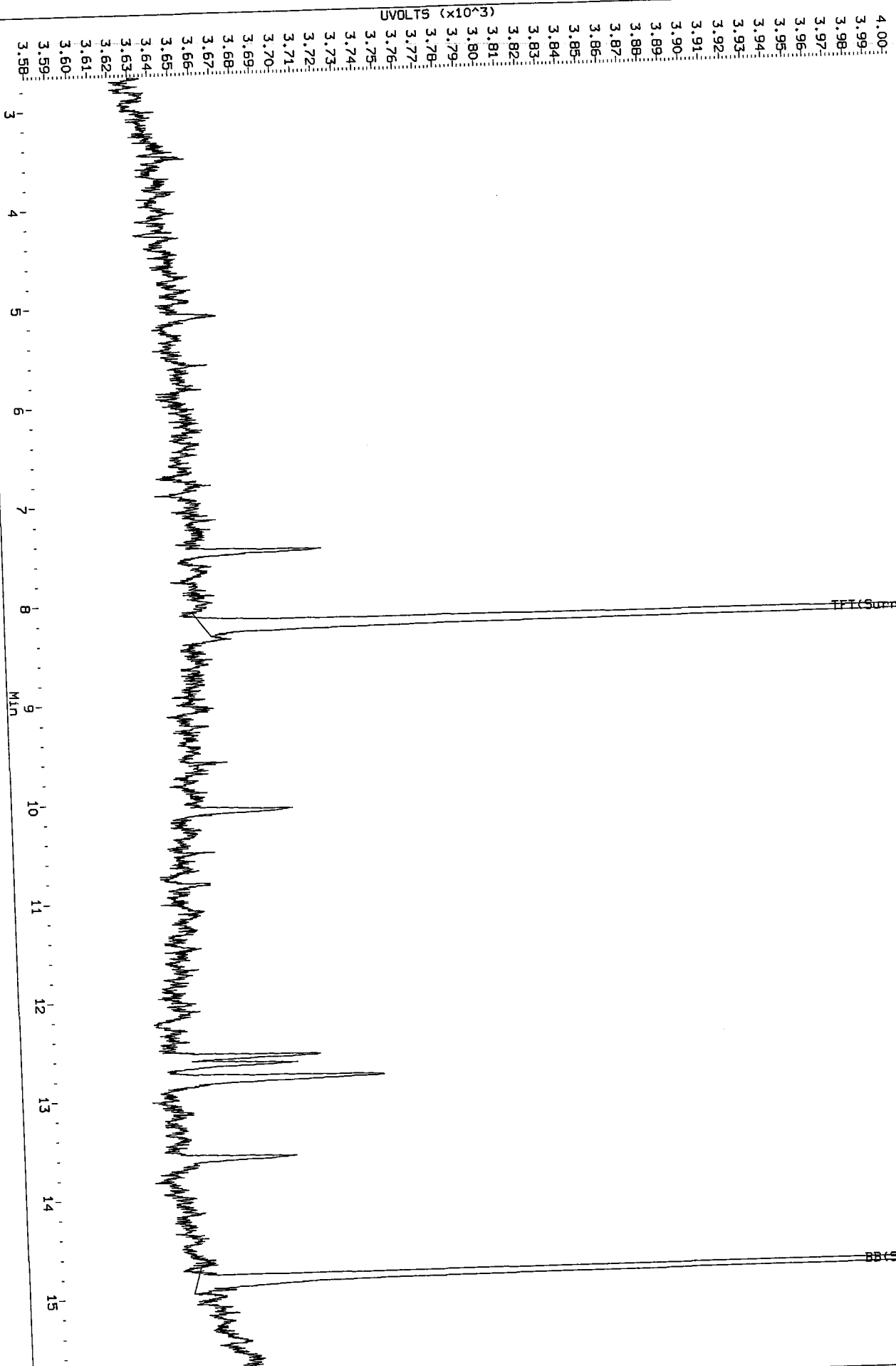
/chem3/pid2.i/072810-2.b/0728a006.d/0728a006.cdf



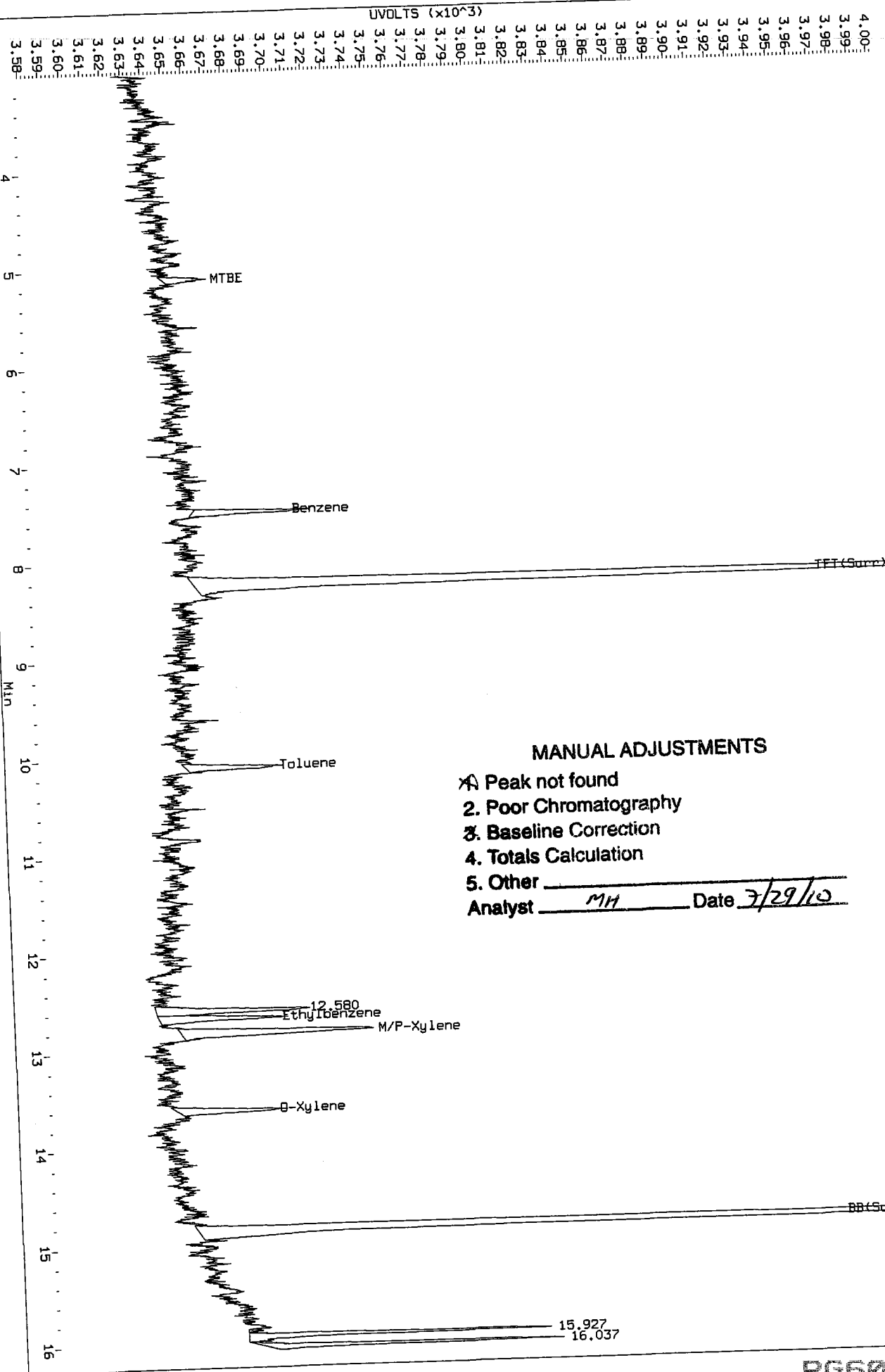
MH
7/16/10

Data File: /chem3/p1d2.1/072810-2.b/0728a006.d/0728a006.cdf
Injection Date: 28-JUL-2010 09:56
Instrument: p1d2.1
Client: Sample ID:

AIR 0728a006.cdf: 2.681 to 15.749 MIN



Data File: /chem3/p1d2.1/072810-2.b/0728a006.d/0728a006.cdf
 Injection Date: 28-JUL-2010 09:56
 Instrument: p1d2.1
 Client Sample ID:



AIN 0728a006.cdf: 3.007 to 16.076 Min

MANUAL ADJUSTMENTS

- ✘ Peak not found
 - 2. Poor Chromatography
 - ✘ Baseline Correction
 - 4. Totals Calculation
 - 5. Other _____
- Analyst MH Date 7/29/10

MH
7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/072810-1.b/0728a007.d
Data file 2: /chem3/pid2.i/072810-2.b/0728a007.d
Method: /chem3/pid2.i/072810-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 28-JUL-2010

ARI ID: BETX 5
Client ID:
Injection Date: 28-JUL-2010 10:22
Matrix: WATER
Dilution Factor: 1.000

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	----	----	-----
8.183	0.006	2804	47731	67.5	TFT (Surr)
14.802	0.004	2037	19317	67.5	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
-----	-----	-----
WAGas (Tol-C12)	91696	0.159
8015B (2MP-TMB)	94785	0.073
AKGas (nC6-nC10)	86610	0.097
NWGas (Tol-Nap)	91696	0.152

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
8.233	0.008	959	66.7	TFT (Surr)
14.830	0.005	3944	67.8	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.490	0.007	591	5.08N	Benzene
10.097	0.003	509	4.91N	Toluene
12.658	0.002	551	4.81	Ethylbenzene
12.803	0.001	1008	10.40N	M/P-Xylene
13.610	0.005	529	5.21N	O-Xylene
5.103	0.003	211	5.03N	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/072810-1.b/0728a007.d

Date: 28-JUL-2010 10:22

Client ID:

Sample Info: BETX 5

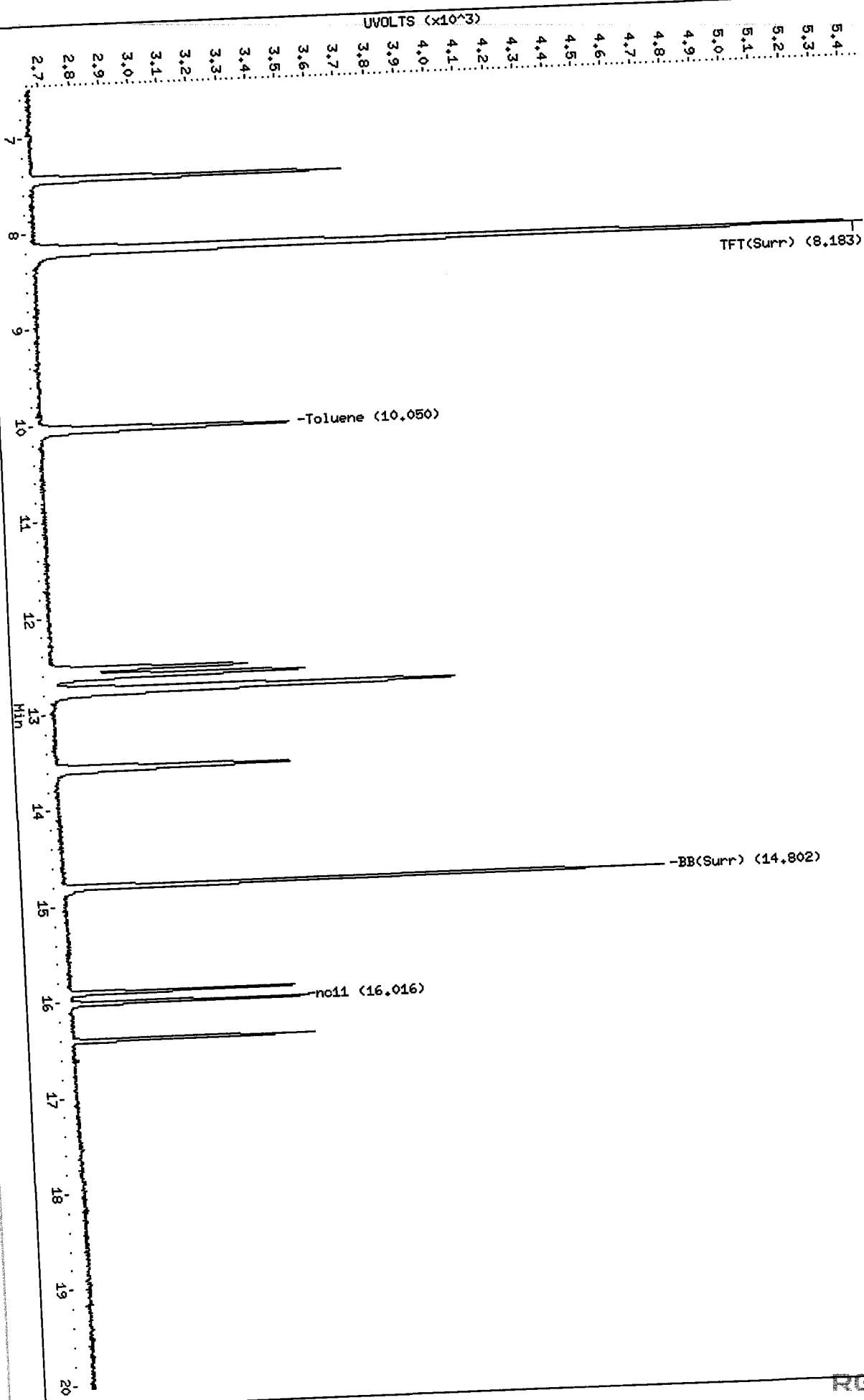
Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: MH

Column diameter: 0.18

/chem3/pid2.i/072810-1.b/0728a007.d/0728a007.cdf



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HV

Data File: /chem3/pid2.i/072810-2.b/0728a007.d

Date: 28-JUL-2010 10:22

Client ID:

Sample Info: BETX 5

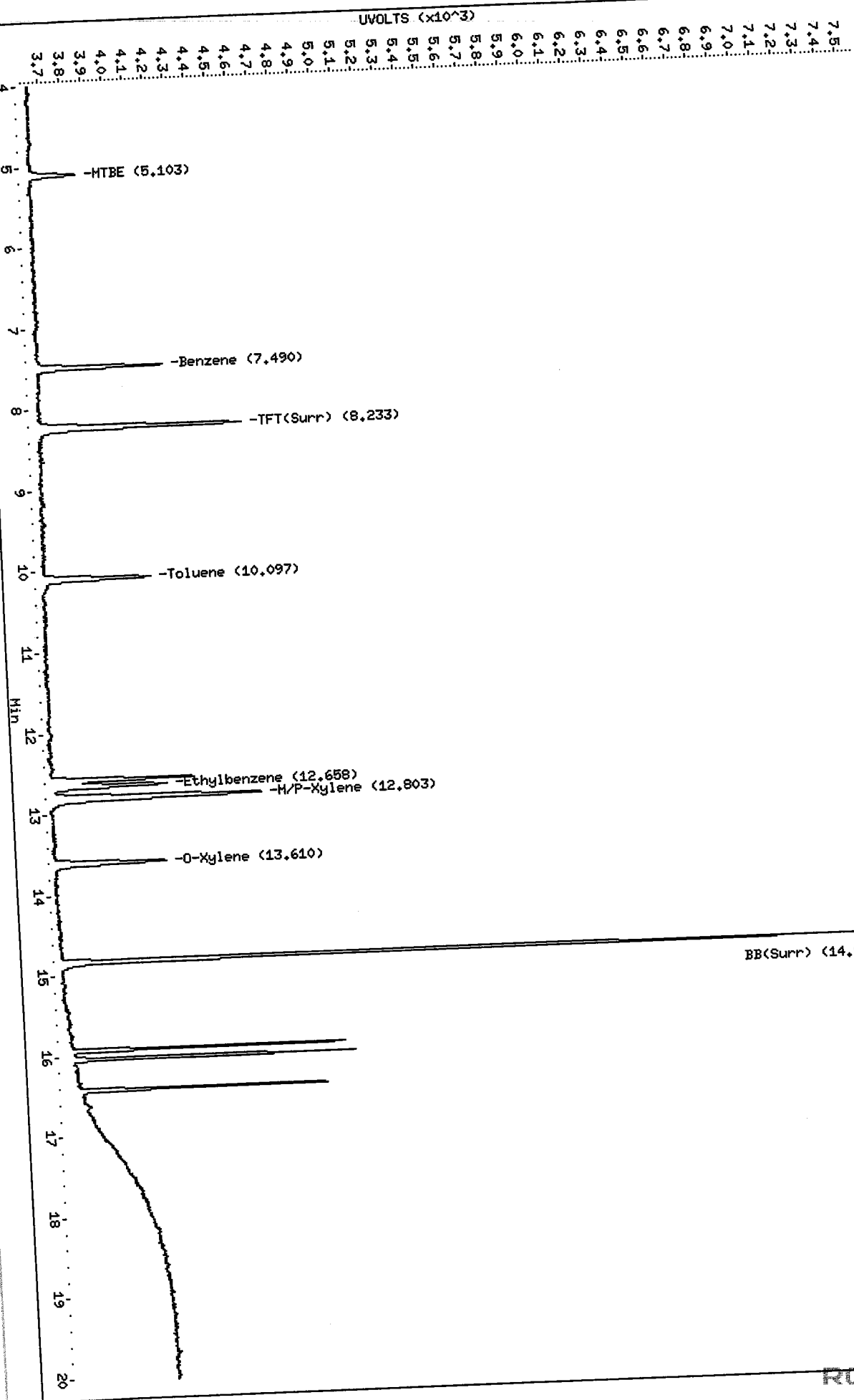
Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: NH

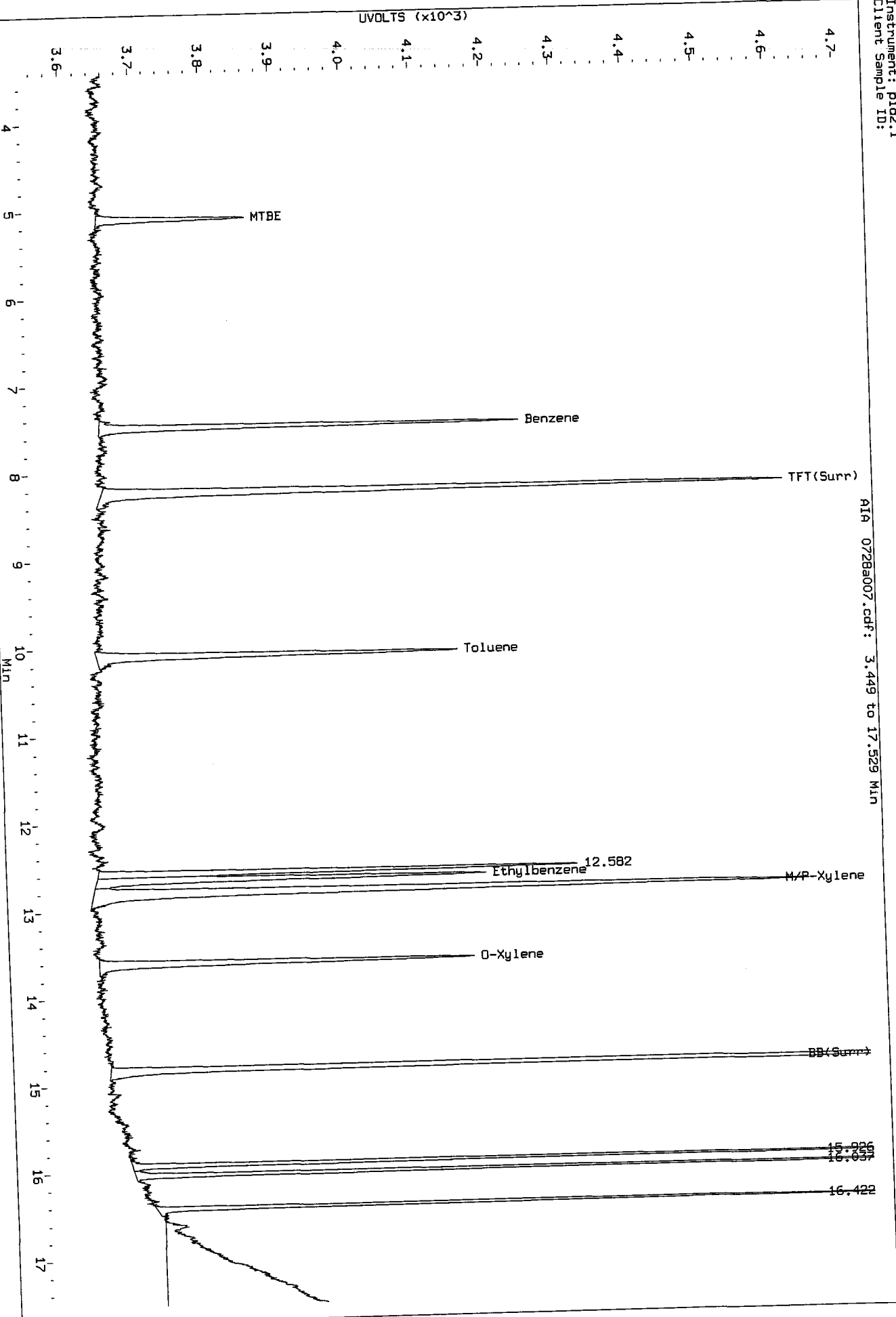
Column diameter: 0.18

/chem3/pid2.i/072810-2.b/0728a007.d/0728a007.cdf



MH
7/27/10

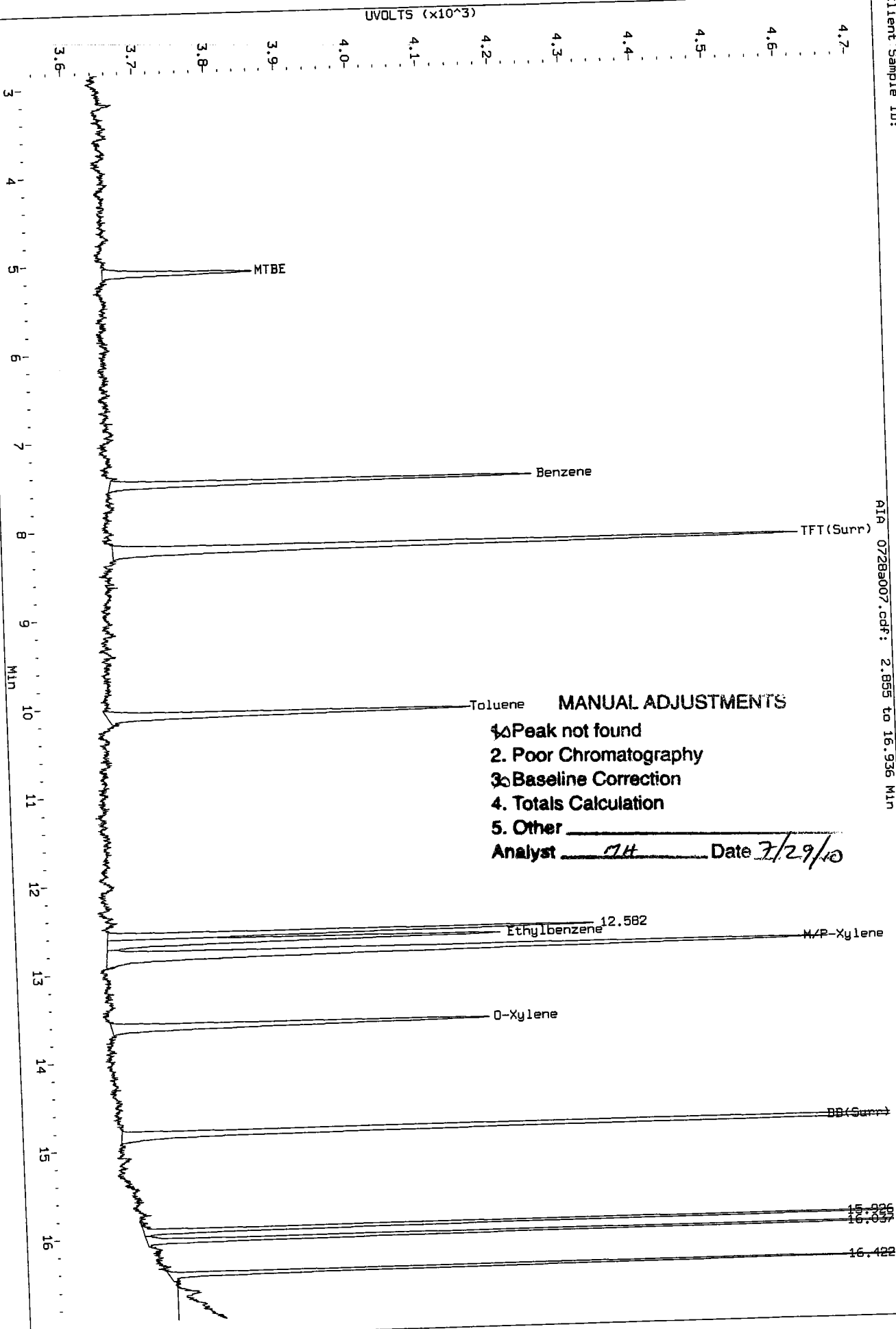
Data File: /chem3/pid2.1/072810-2.b/0728a007.d/0728a007.cdf
Injection Date: 28-JUL-2010 10:22
Instrument: pid2.1
Client Sample ID:



AIA 0728a007.cdf: 3.449 to 17.529 Min

Data File: /chem3/p1d2.1/072810-2.b/0728a007.d/0728a007.cdf
Injection Date: 28-JUL-2010 10:22
Instrument: p1d2.1
Client Sample ID:

AIA 0728a007.cdf: 2.855 to 16.936 MIN



MANUAL ADJUSTMENTS

- 1. Peak not found
 - 2. Poor Chromatography
 - 3. Baseline Correction
 - 4. Totals Calculation
 - 5. Other _____
- Analyst JH Date 7/29/10

mt
7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/072810-1.b/0728a008.d
Data file 2: /chem3/pid2.i/072810-2.b/0728a008.d
Method: /chem3/pid2.i/072810-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 28-JUL-2010

ARI ID: BETX 25
Client ID:
Injection Date: 28-JUL-2010 10:48
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	-----	----	-----
8.180	0.003	4065	67933	97.9	TFT (Surr)
14.801	0.004	2969	27339	98.4	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
-----	-----	-----
WAGas (Tol-C12)	427992	0.742
8015B (2MP-TMB)	442018	0.339
AKGas (nC6-nC10)	405644	0.456
NWGas (Tol-Nap)	427992	0.711

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
8.230	0.004	1424	99.1	TFT (Surr)
14.827	0.002	5765	99.1	BB (Surr)

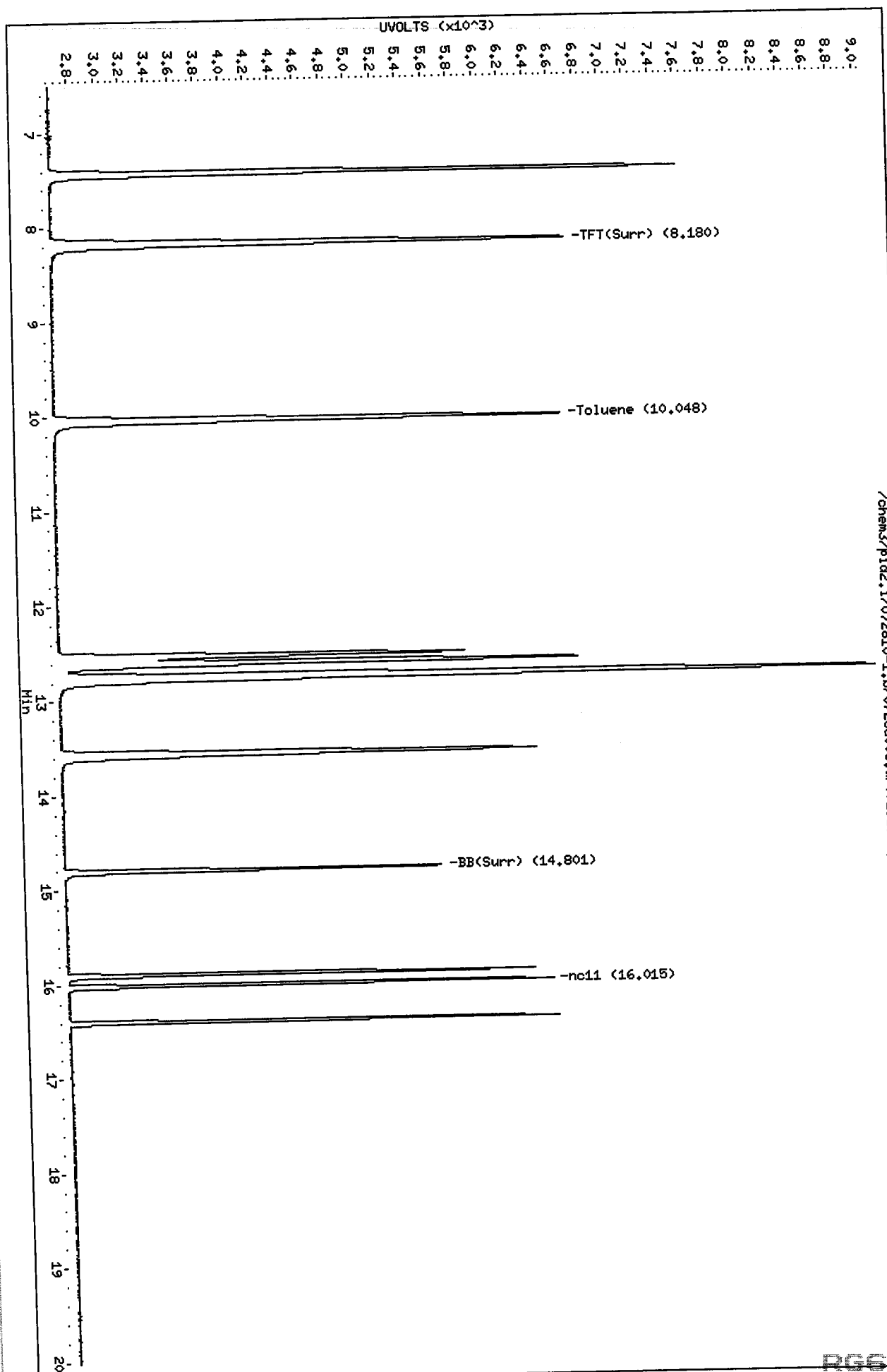
AROMATICS (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.487	0.003	2869	24.64N	Benzene
10.093	0.000	2541	24.50N	Toluene
12.656	0.000	2692	23.49	Ethylbenzene
12.800	-0.003	4968	51.27N	M/P-Xylene
13.607	0.001	2617	25.78	O-Xylene
5.103	0.003	1045	24.89N	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/072810-1.b/0728a008.d
Date: 28-JUL-2010 10:48
Client ID:
Sample Info: BETX 25
Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: MH
Column diameter: 0.18



/chem3/pid2.i/072810-1.b/0728a008.d/0728a008.cdf

01685 0600

Data File: /chem3/pid2.i/072810-2.b/0728a008.d

Date: 28-JUL-2010 10:48

Client ID:

Sample Info: BETX 25

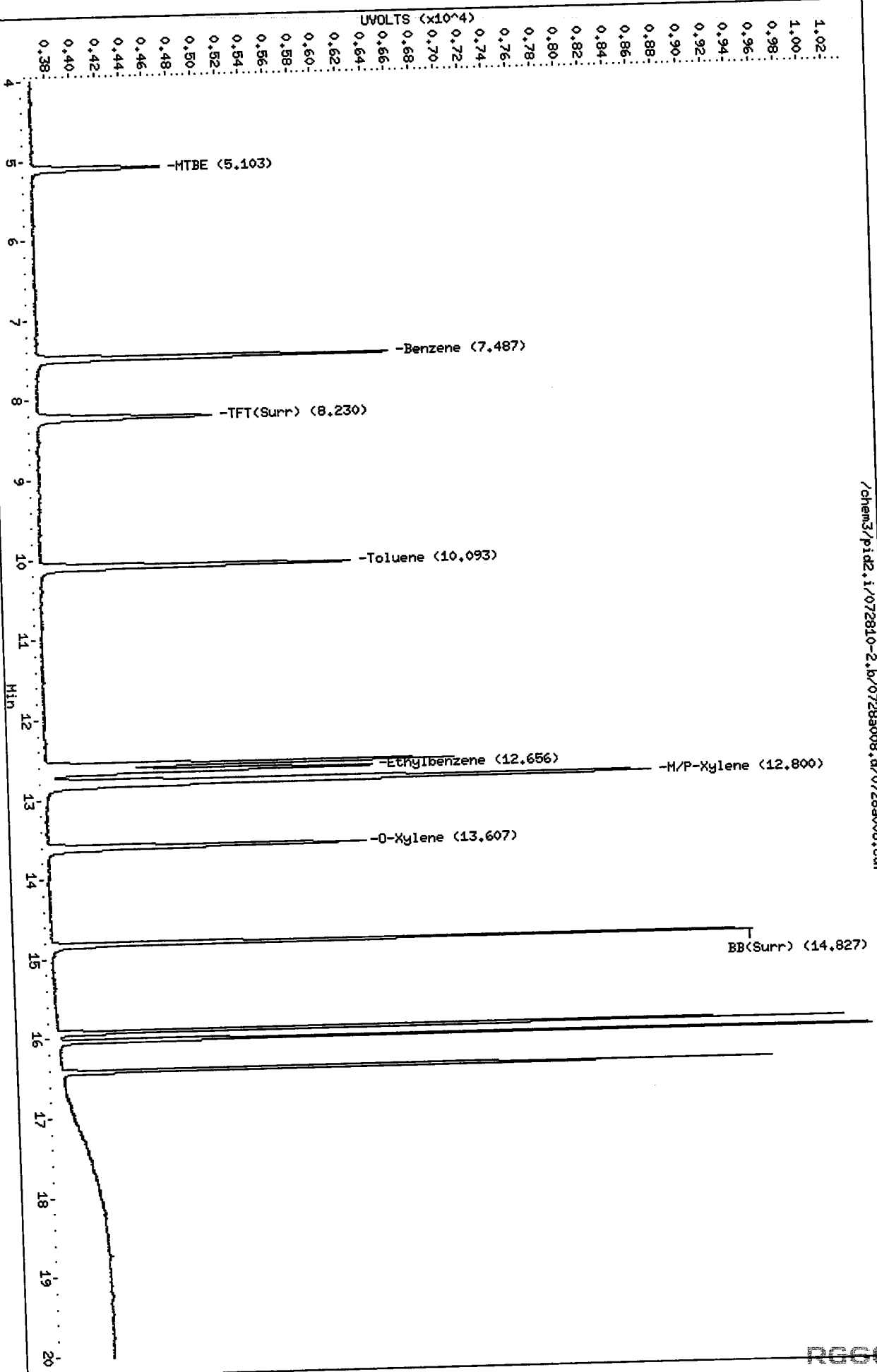
Instrument: pid2.i

Operator: MH

Column diameter: 0.18

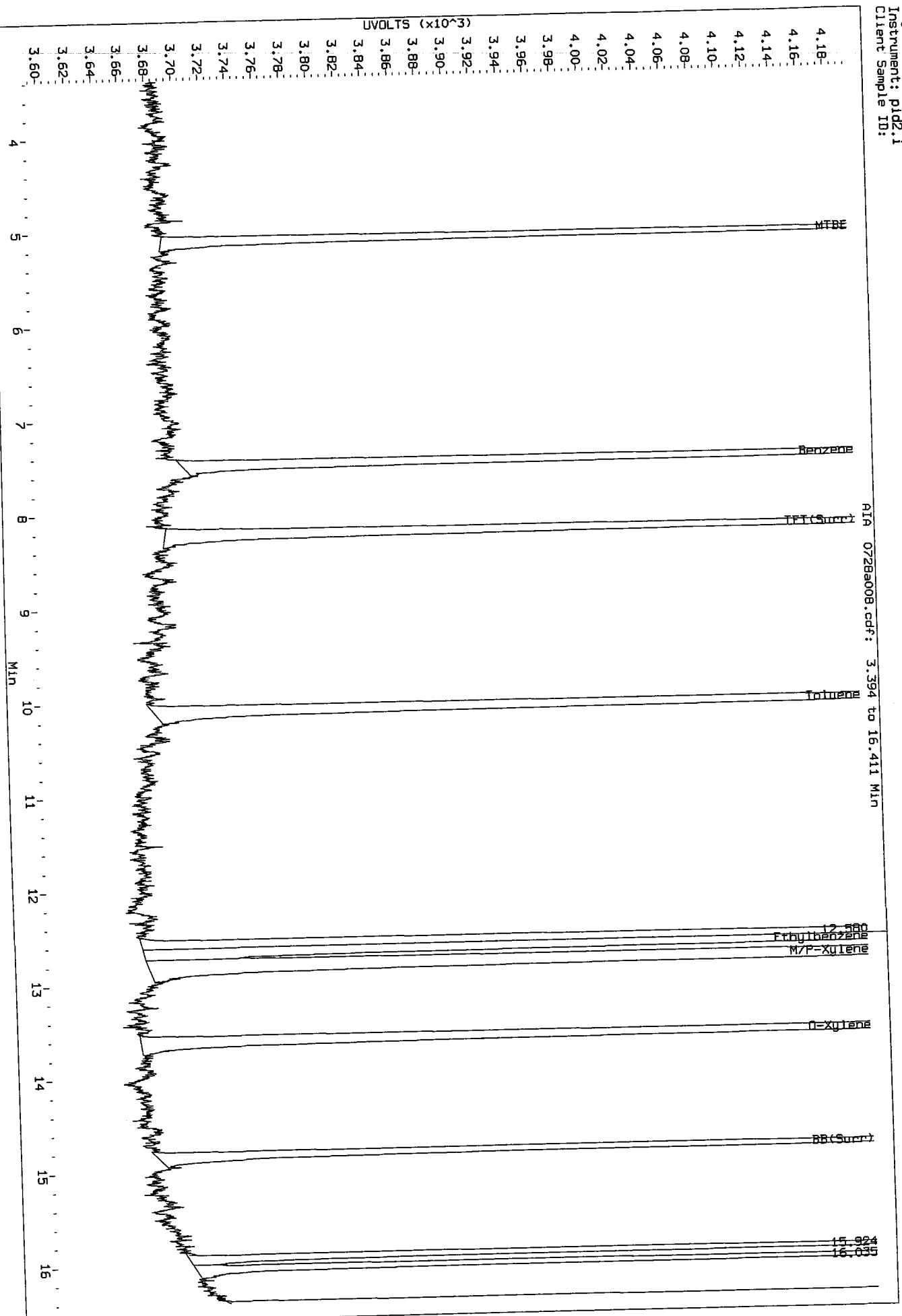
Column phase: RTX 502-2 PID

/chem3/pid2.i/072810-2.b/0728a008.d/0728a008.cdf



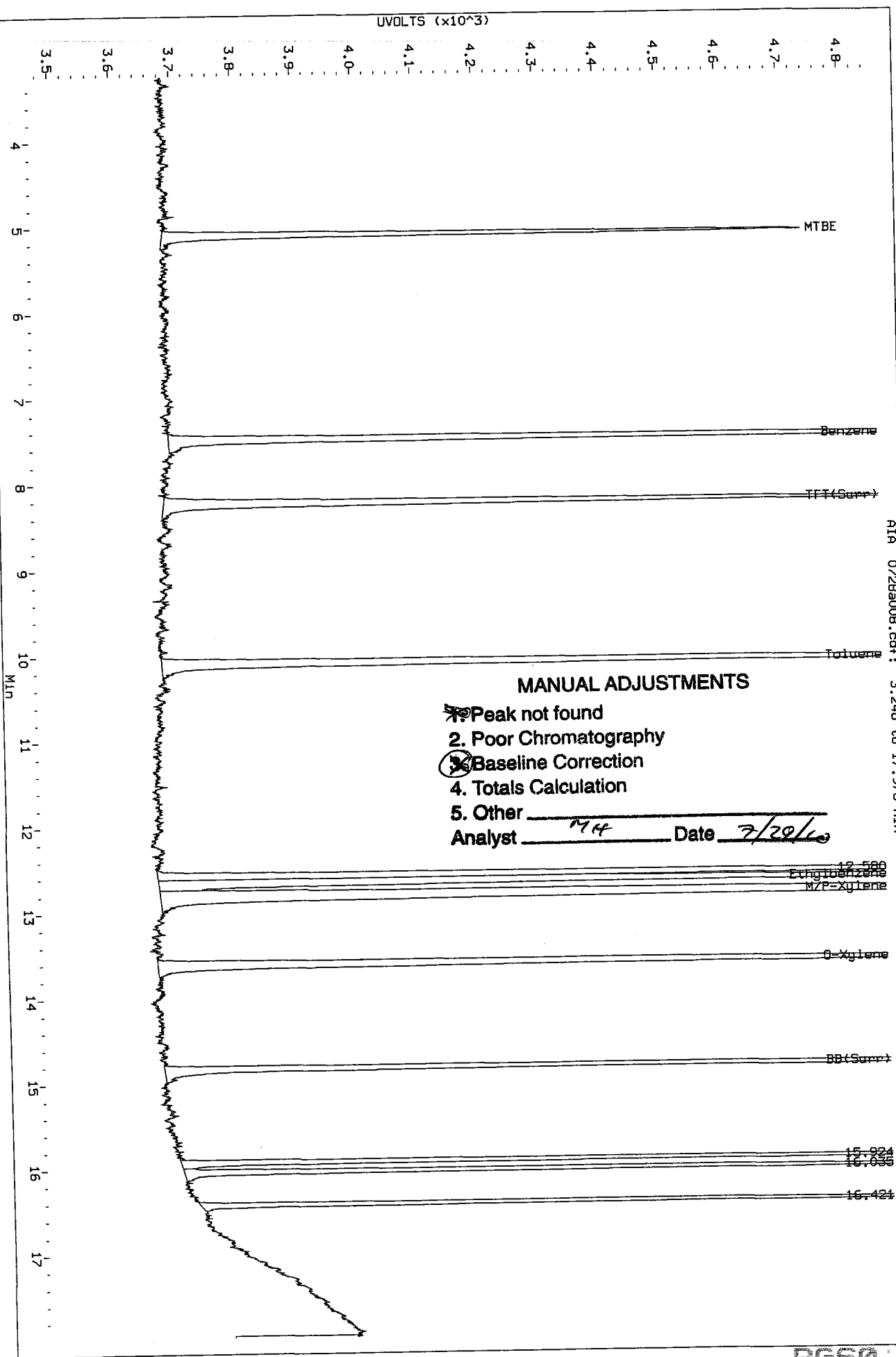
HT
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Data File: /chem3/pid2.1/072810-2.b/0728a008.d/0728a008.cdf
Injection Date: 28-JUL-2010 10:48
Instrument: pid2.1
Client Sample ID:



Data File: /chem3/pid2.1/072810-2.b/0728a008.d/0728a008.cdf
Injection Date: 28-JUL-2010 10:48
Instrument: pid2.1
Client Sample ID:

AIA 0728a008.cdf: 3.248 to 17.976 Min



7/29/10
MH

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/072810-1.b/0728a009.d
Data file 2: /chem3/pid2.i/072810-2.b/0728a009.d
Method: /chem3/pid2.i/072810-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 28-JUL-2010

ARI ID: BETX 50
Client ID:
Injection Date: 28-JUL-2010 11:14
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.180	0.004	5372	89588	129.4	TFT (Surr)
14.801	0.004	3943	36392	130.6	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	831925	1.442
8015B (2MP-TMB)	861504	0.660
AKGas (nC6-nC10)	790482	0.889
NWGas (Tol-Nap)	831925	1.382

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.230	0.004	1891	131.6	TFT (Surr)
14.827	0.002	7642	131.4	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
7.487	0.003	5787	49.70N	Benzene
10.097	0.003	5047	48.66N	Toluene
12.656	0.000	5333	46.53	Ethylbenzene
12.803	0.001	9750	100.62N	M/P-Xylene
13.607	0.002	5118	50.41N	O-Xylene
5.100	0.000	2066	49.21N	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/072810-1.b/0728a009.d

Date: 28-JUL-2010 11:14

Client ID:

Sample Info: BETX 50

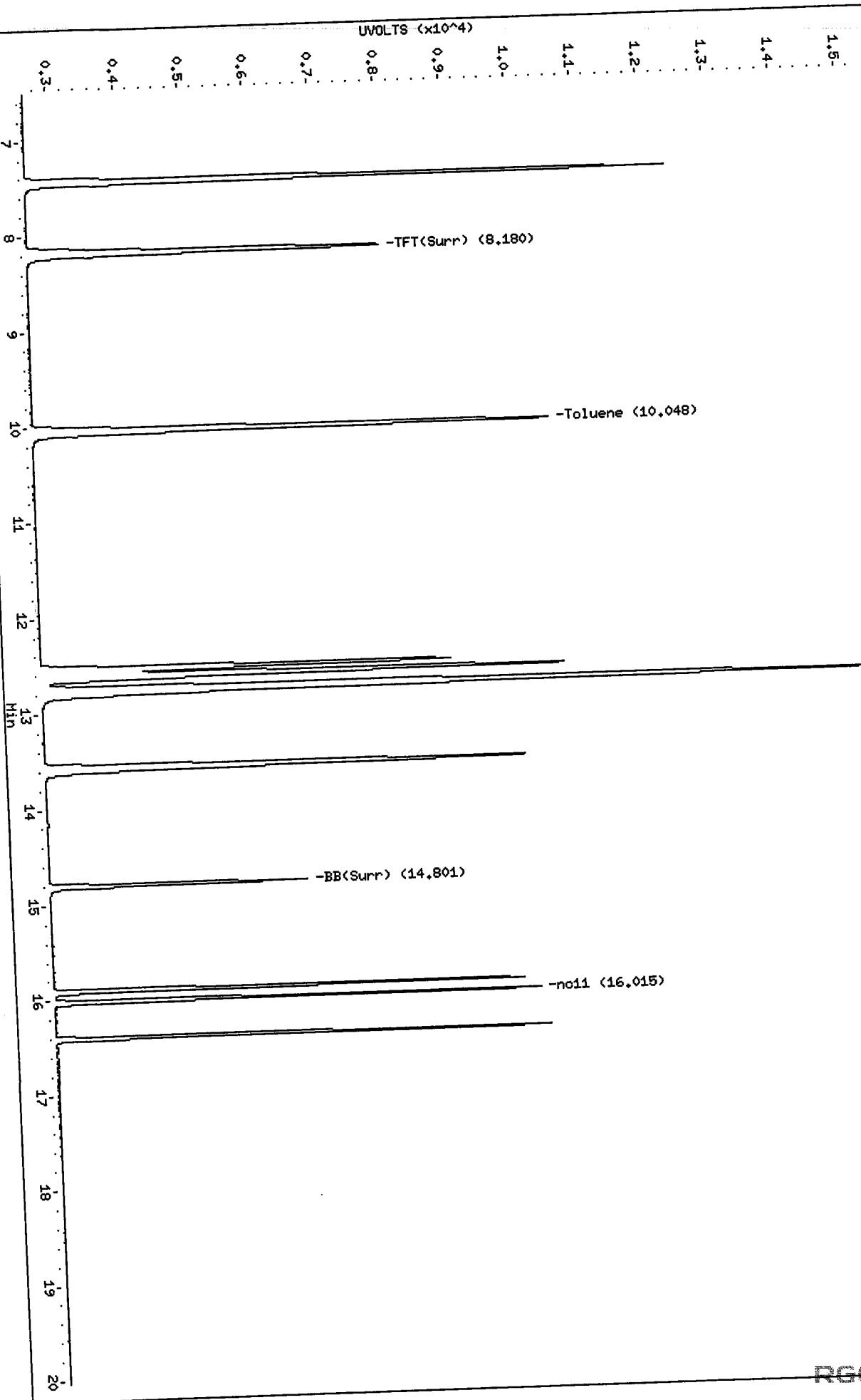
Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: MH

Column diameter: 0.18

/chem3/pid2.i/072810-1.b/0728a009.d/0728a009.cdf

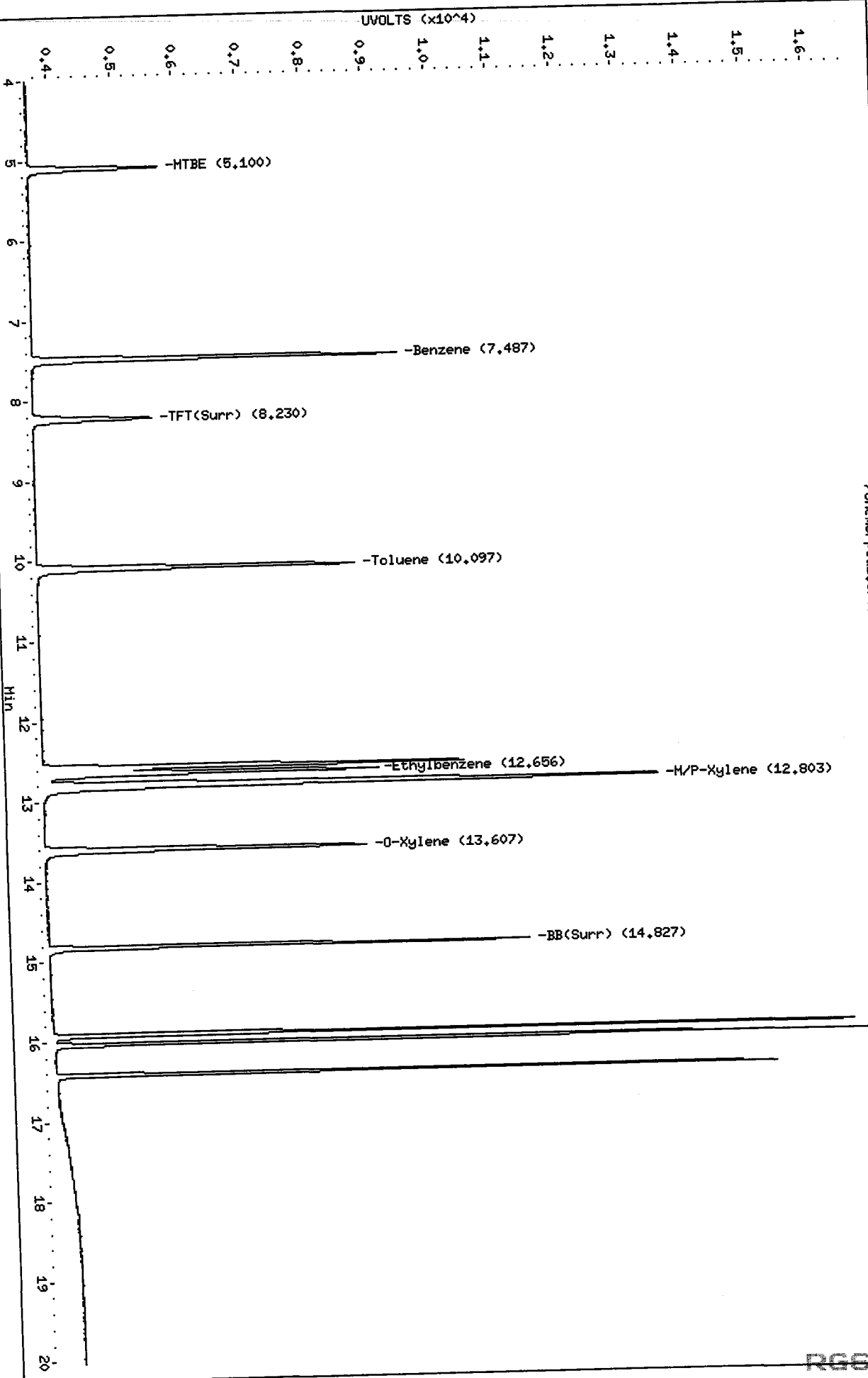


Data File: /chem3/pid2.i/072810-2.b/0728a009.d
Date: 28-JUL-2010 14:14
Client ID:
Sample Info: BETX 50

Instrument: pid2.i
Operator: MH
Column diameter: 0.18

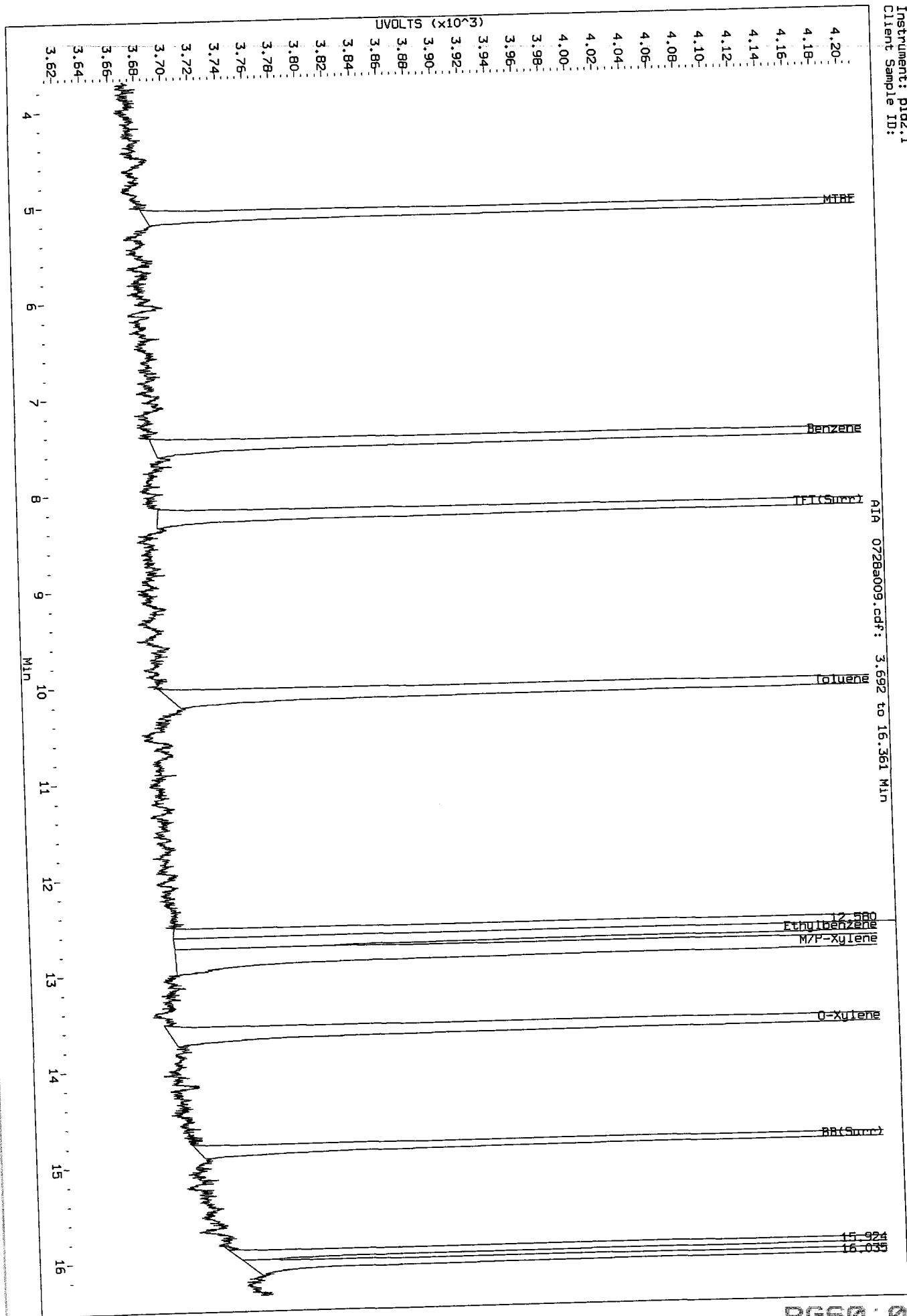
Column phase: RTX 502-2 PID

/chem3/pid2.i/072810-2.b/0728a009.d/0728a009.cdf



MH
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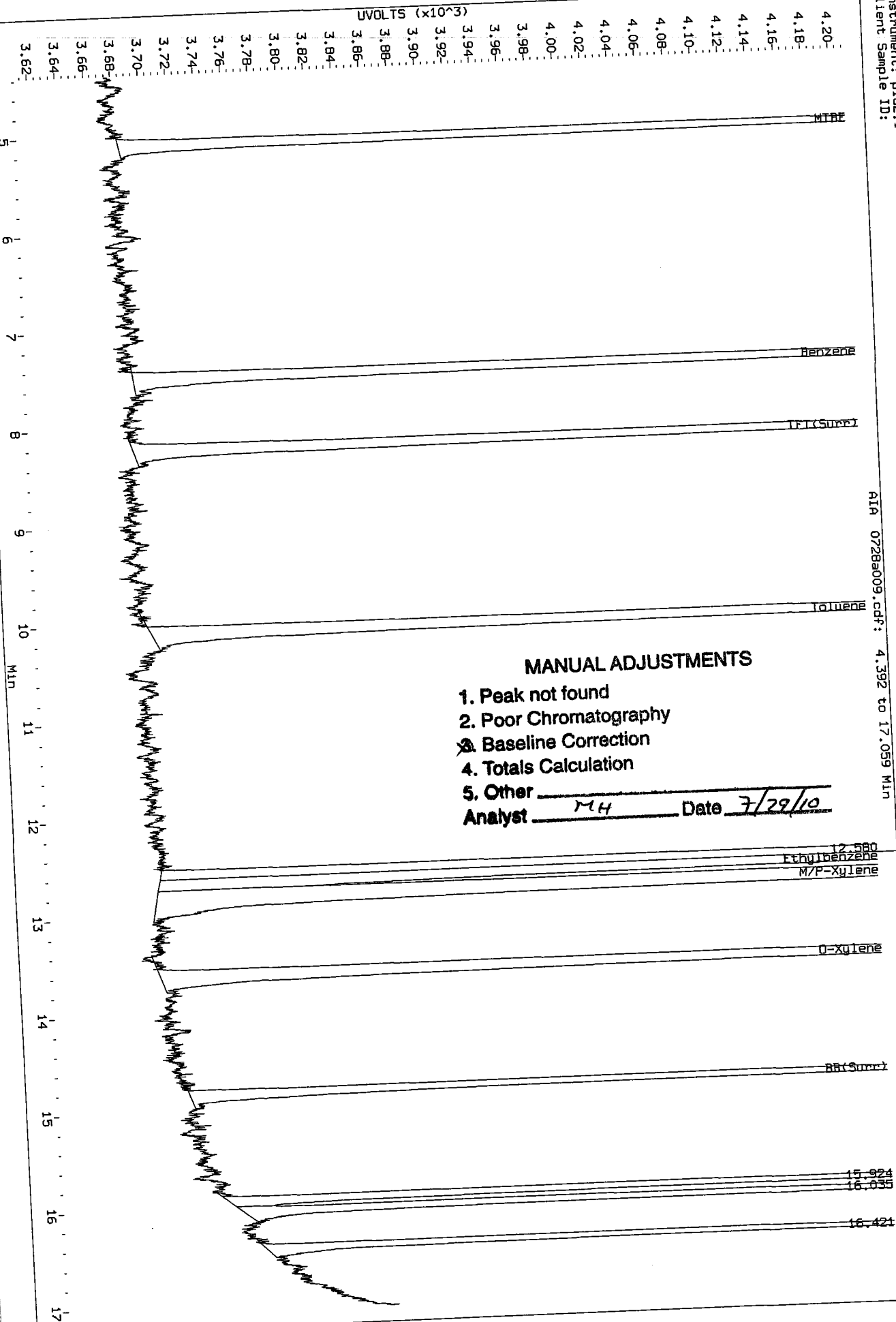
Data File: /chem3/pid2.1/072810-2.b/0728a009.d/0728a009.cdf
Injection Date: 28-JUL-2010 11:14
Instrument: pid2.1
Client Sample ID:



AIA 0728a009.cdf: 3.692 to 16.361 Min

Data File: /chem3/pld2.1/072810-2.b/0728a009.d/0728a009.cdf
 Injection Date: 28-JUL-2010 11:14
 Instrument: pld2.1
 Client Sample ID:

AIA 0728a009.cdf: 4.392 to 17.059 Min



MANUAL ADJUSTMENTS

- 1. Peak not found
 - 2. Poor Chromatography
 - 3. Baseline Correction
 - 4. Totals Calculation
 - 5. Other _____
- Analyst MH Date 7/29/10

MH
7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/072810-1.b/0728a010.d
Data file 2: /chem3/pid2.i/072810-2.b/0728a010.d
Method: /chem3/pid2.i/072810-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 28-JUL-2010

ARI ID: BETX 100
Client ID:
Injection Date: 28-JUL-2010 11:40
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	-----	-----	-----
8.177	0.000	7169	115611	172.7	TFT (Surr)
14.799	0.001	5178	46881	171.5	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
-----	-----	-----
WAGas (Tol-C12)	1573798	2.728
8015B (2MP-TMB)	1626264	1.246
AKGas (nC6-nC10)	1492490	1.678
NWGas (Tol-Nap)	1573798	2.614

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	-----	-----
8.223	-0.002	2514	174.9	TFT (Surr)
14.825	0.000	10164	174.8	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.483	0.000	11102	95.34N	Benzene
10.093	0.000	9966	96.08N	Toluene
12.654	-0.002	10471	91.36	Ethylbenzene
12.799	-0.003	19562	201.88	M/P-Xylene
13.603	-0.002	10159	100.06N	O-Xylene
5.100	0.000	3955	94.20N	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/072810-1.b/0728a010.d

Date: 28-JUL-2010 11:40

Client ID:

Sample Info: BETX 100

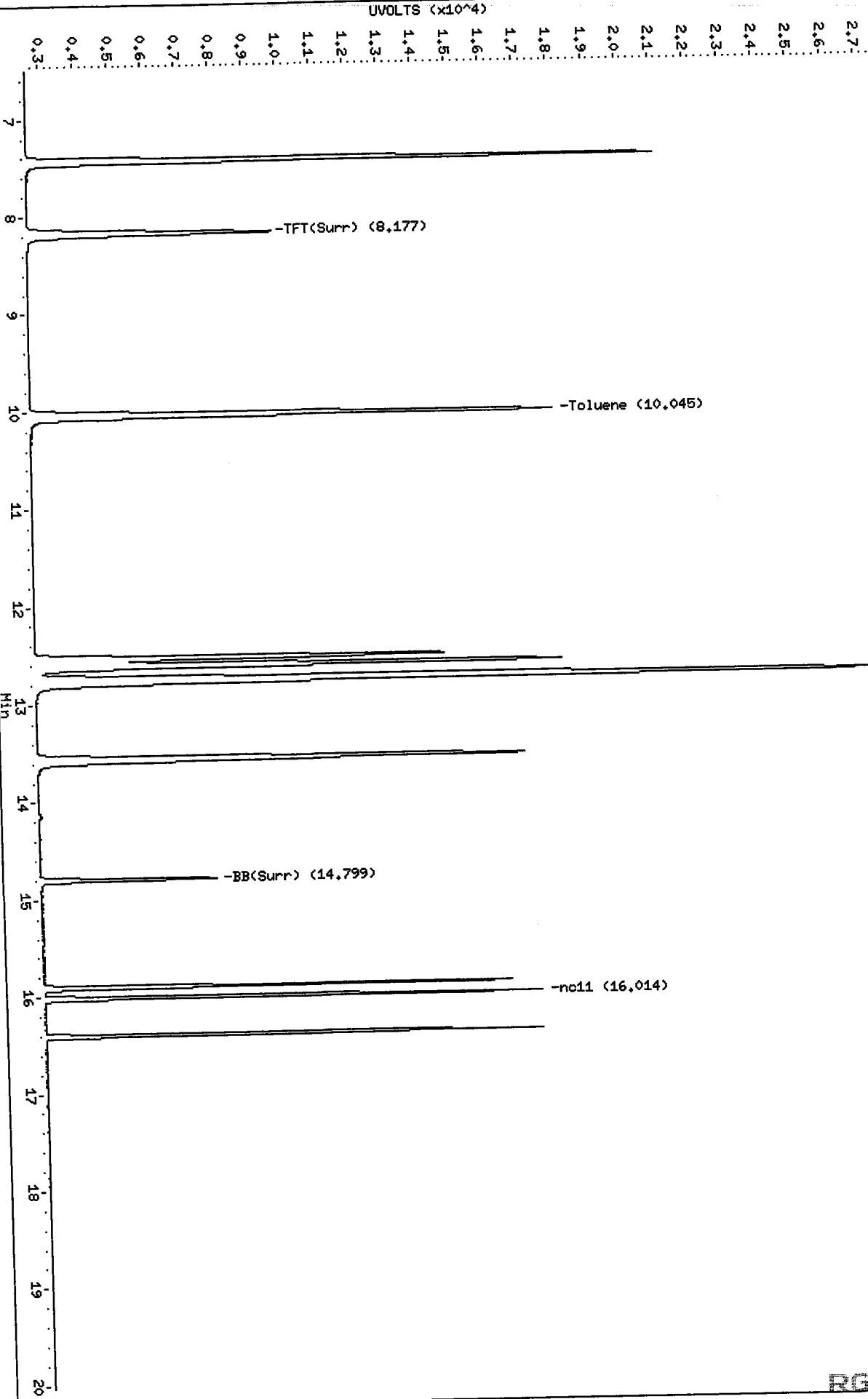
Instrument: pid2.i

Operator: HH

Column diameter: 0.18

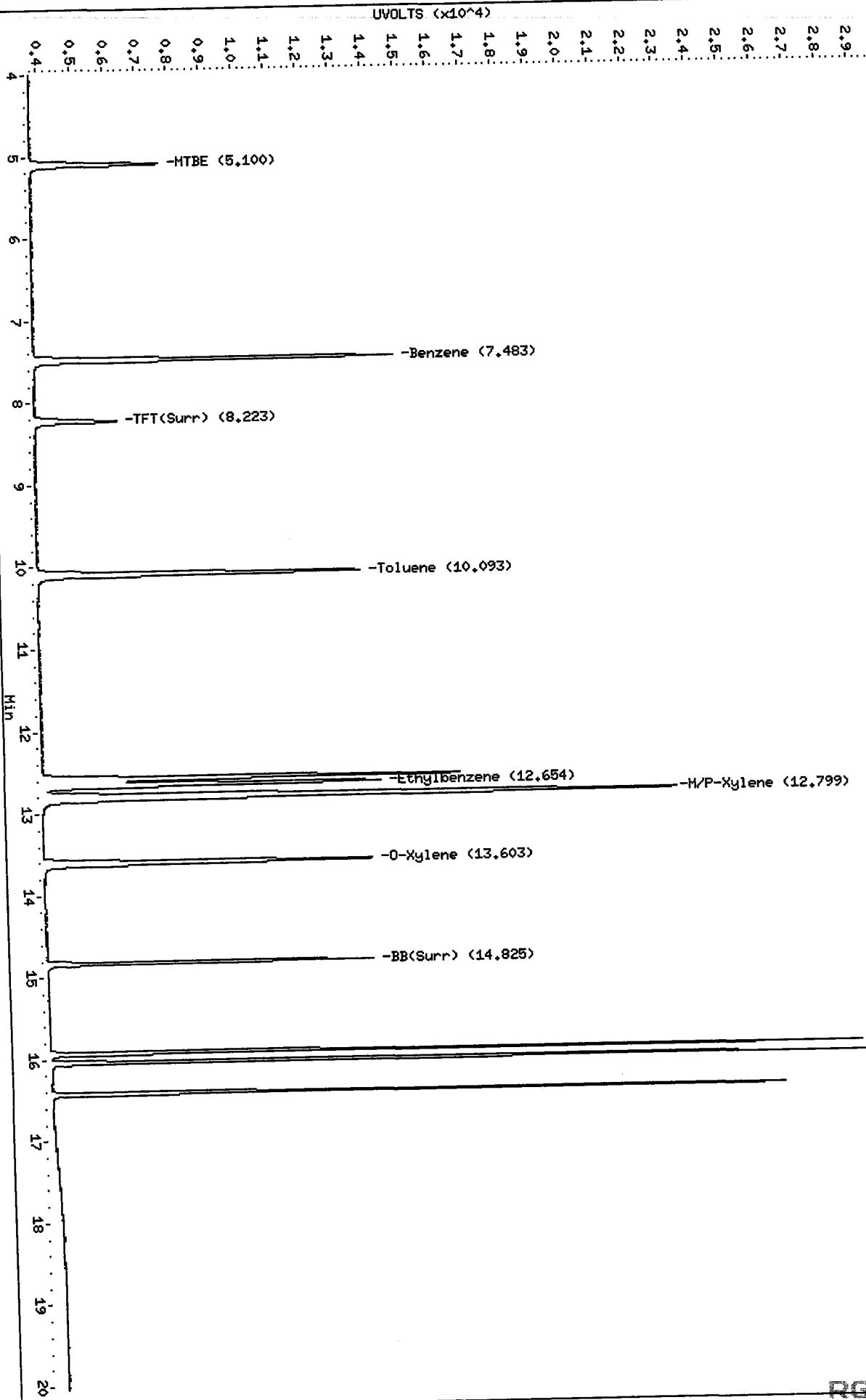
Column phase: RTX 502-2 FID

/chem3/pid2.i/072810-1.b/0728a010.d/0728a010.cdf



Data File: /chem3/pid2.i/072810-2.b/0728a010.d
Date : 28-JUL-2010 11:40
Client ID:
Sample Info: BETX 100
Column phase: RTX 502-2 PID

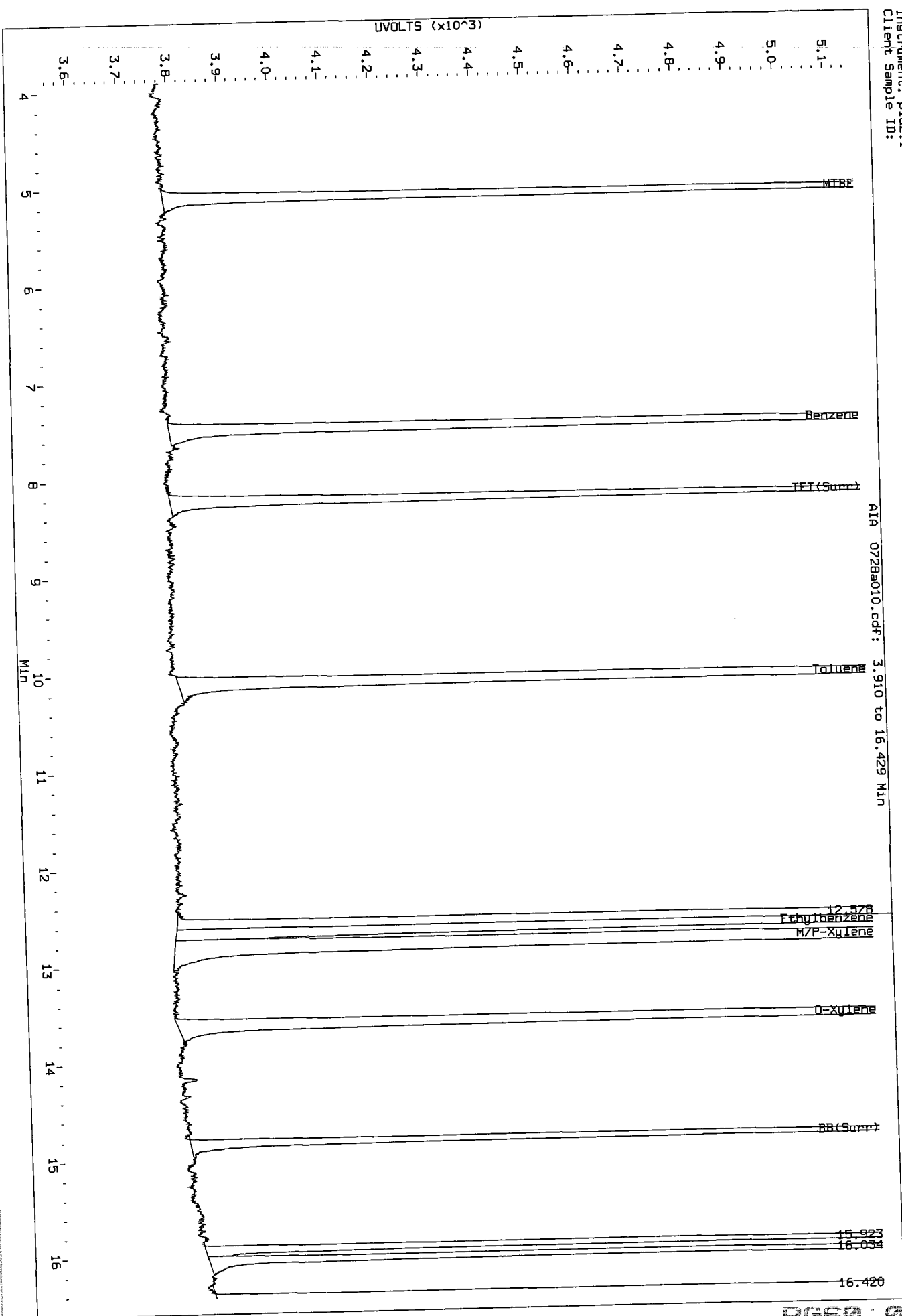
Instrument: pid2.i
Operator: HH
Column diameter: 0.18



/chem3/pid2.i/072810-2.b/0728a010.d/0728a010.cdf

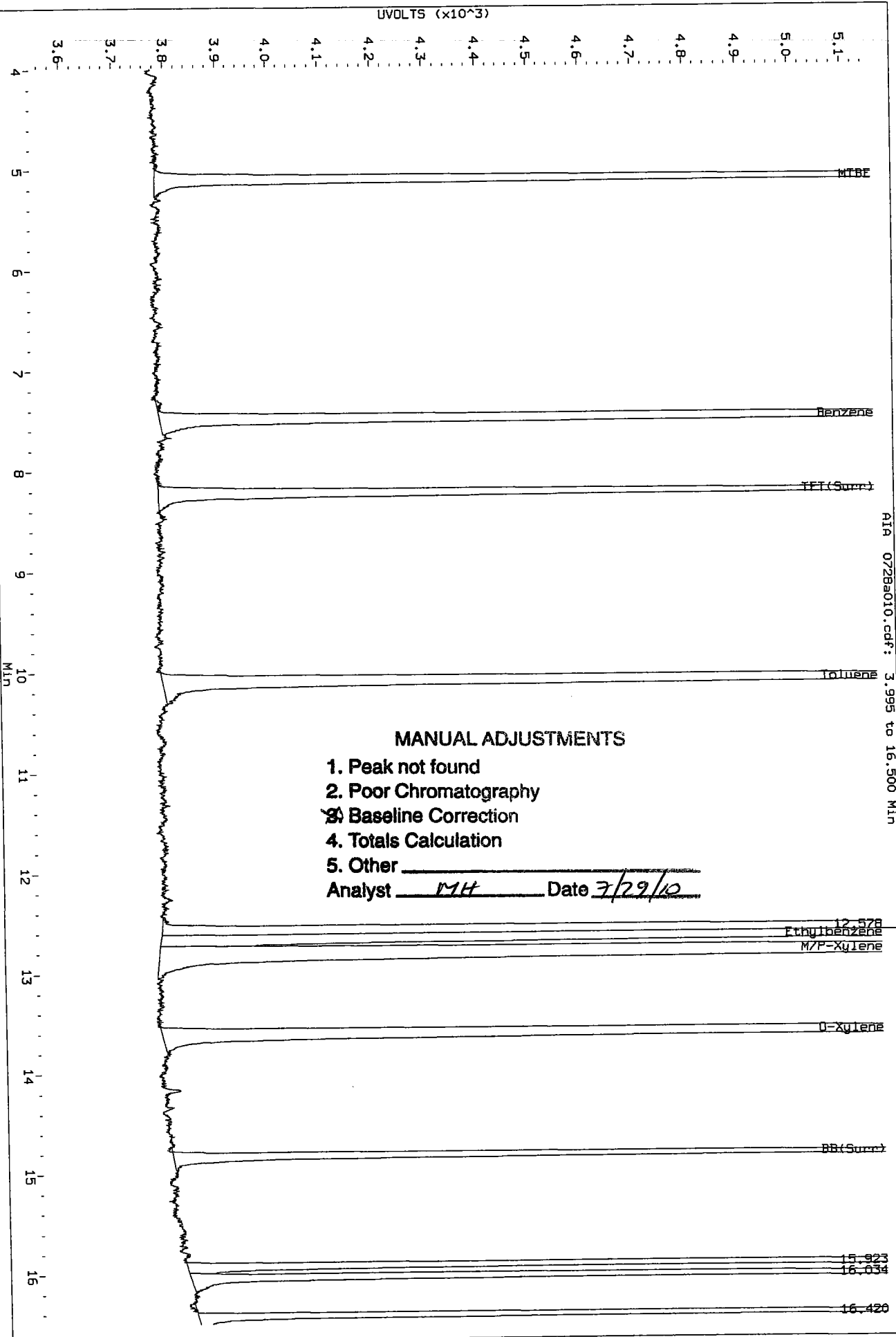
MH
4/22/10

Data File: /chem3/pid2.1/072810-2.1b/0728a010.d/0728a010.cdf
Injection Date: 28-JUL-2010 11:40
Instrument: pid2.1
Client Sample ID:



AIA 0728a010.cdf: 3.910 to 16.429 Min

Data File: /chem3/pid2.1/072810-2.b/0728a010.d/0728a010.cdf
Injection Date: 28-JUL-2010 11:40
Instrument: pid2.1
Client Sample ID:



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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/072810-1.b/0728a011.d
Data file 2: /chem3/pid2.i/072810-2.b/0728a011.d
Method: /chem3/pid2.i/072810-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 28-JUL-2010

ARI ID: BETX 200
Client ID:
Injection Date: 28-JUL-2010 12:06
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	-----	----	-----
8.177	0.000	7858	125529	189.3	TFT (Surr)
14.797	0.000	5640	51262	186.8	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
-----	-----	-----
WAGas (Tol-C12)	3212803	5.569
8015B (2MP-TMB)	3316294	2.542
AKGas (nC6-nC10)	3042318	3.421
NWGas (Tol-Nap)	3212803	5.337

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
8.226	0.000	2845	198.0	TFT (Surr)
14.825	0.000	11106	191.0	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.483	0.000	23086	198.25N	Benzene
10.093	0.000	21202	204.41N	Toluene
12.656	0.000	21813	190.31	Ethylbenzene
12.803	0.000	41531	428.60	M/P-Xylene
13.605	0.000	21257	209.37	O-Xylene
5.100	0.000	8206	195.45N	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/072810-1.b/0728s011.d

Date: 28-JUL-2010 12:06

Client ID:

Sample Info: BETX 200

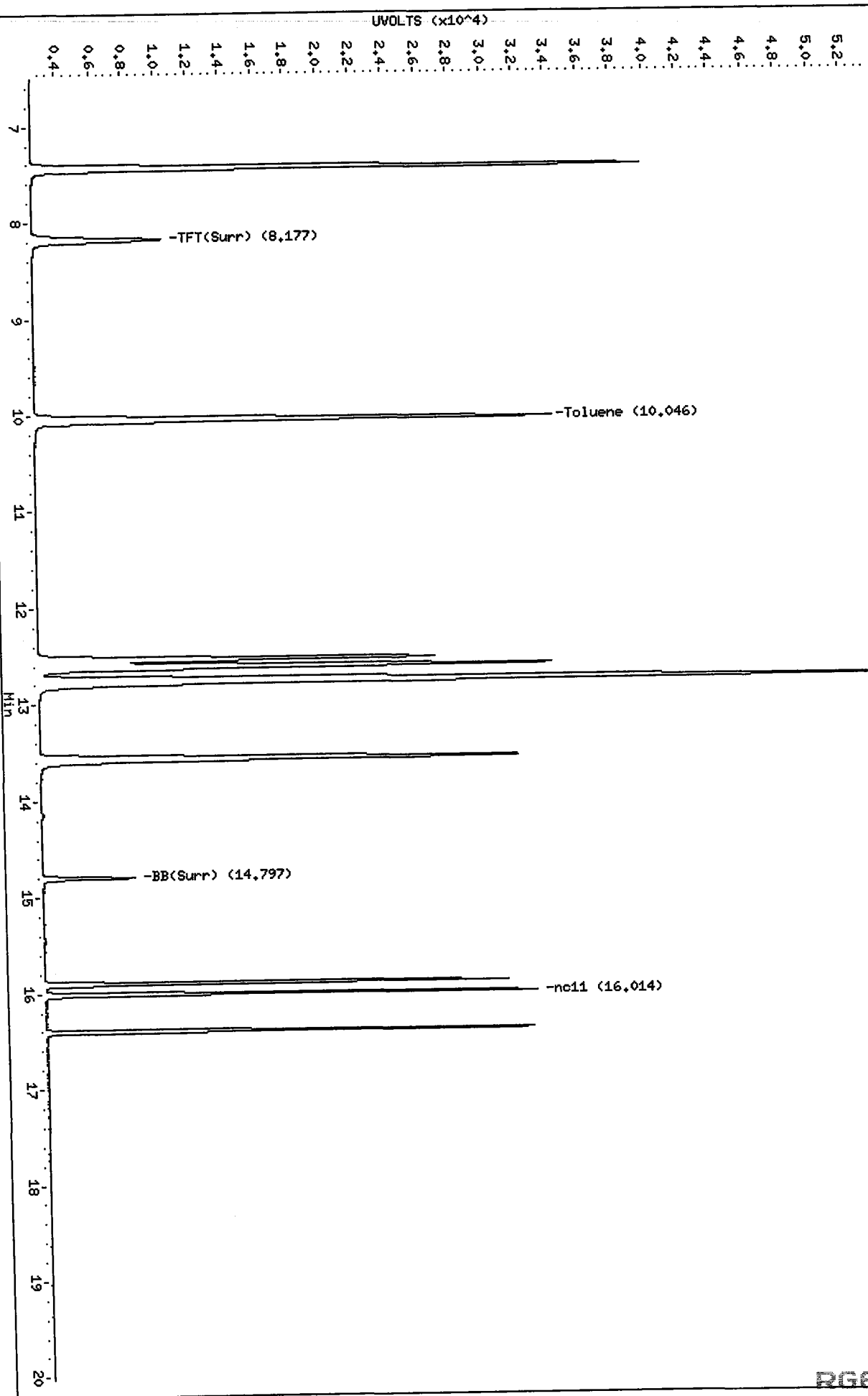
Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: MH

Column diameter: 0.18

/chem3/pid2.i/072810-1.b/0728s011.d/0728s011.cdf



Data File: /chem3/pid2.i/072810-2.b/0728a011.d

Date: 28-JUL-2010 12:06

Client ID:

Sample Info: BETX 200

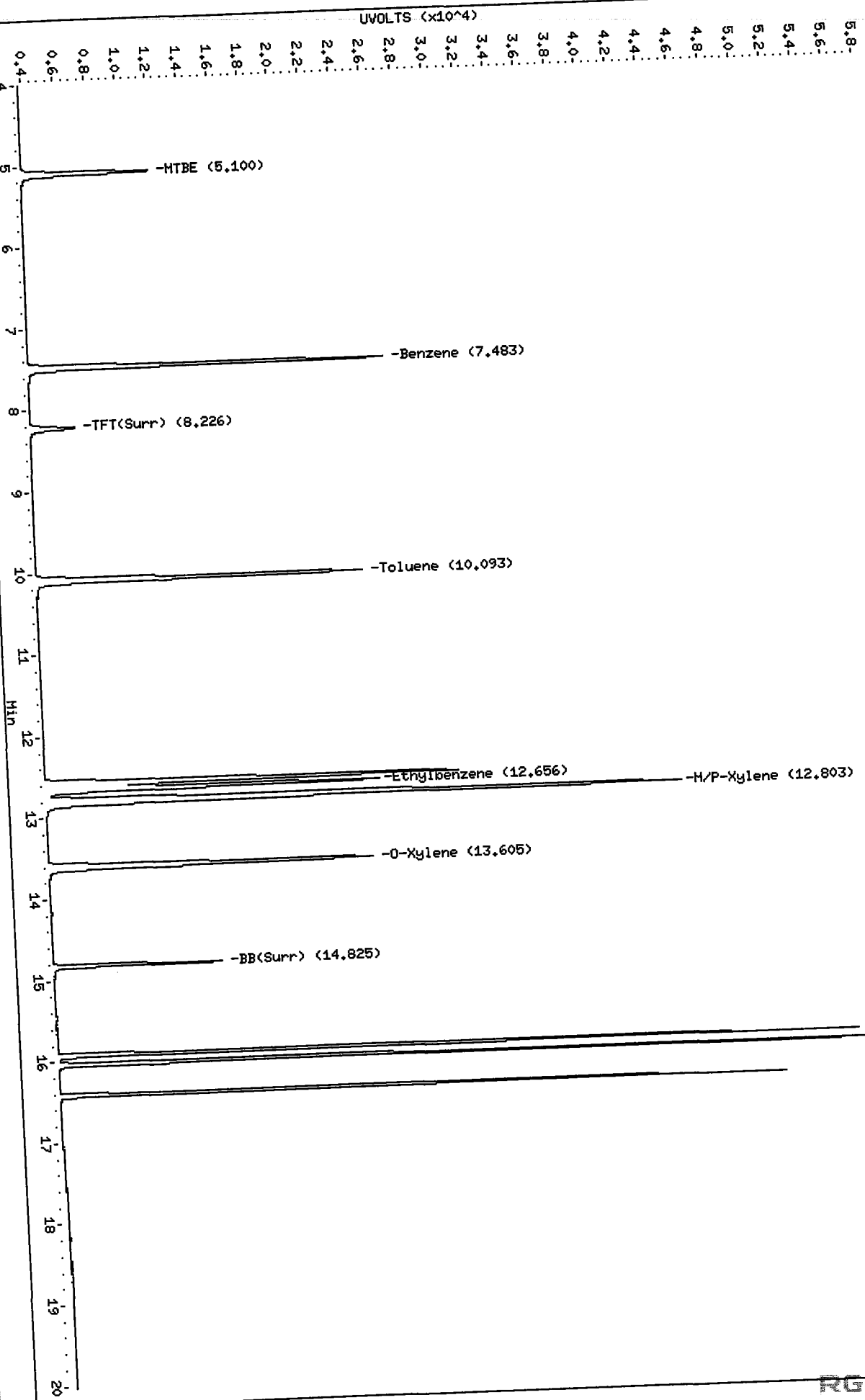
Instrument: pid2.i

Operator: HH

Column diameter: 0.18

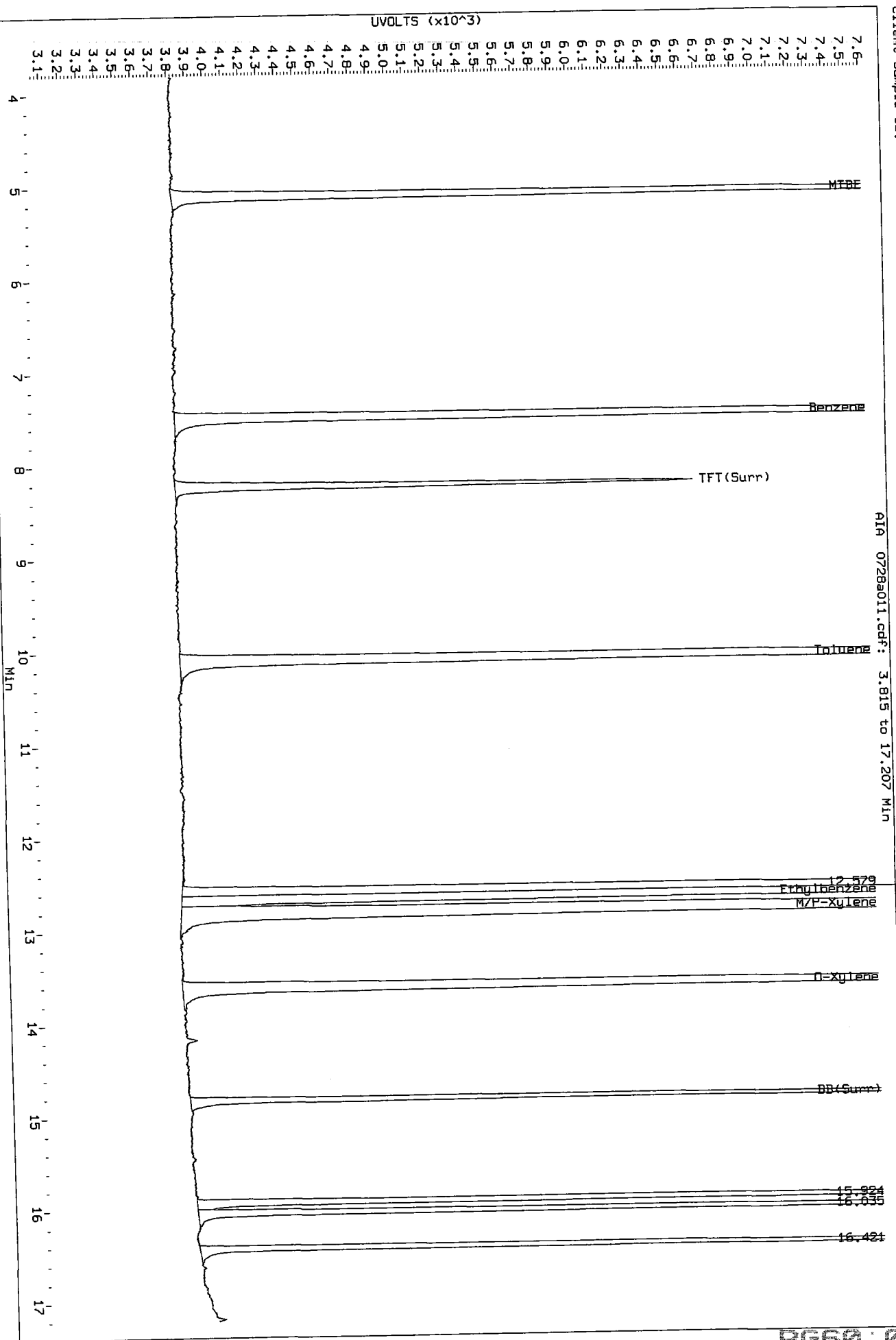
Column phase: RTX 602-2 PID

/chem3/pid2.i/072810-2.b/0728a011.d/0728a011.cdf



01/16/10
MH

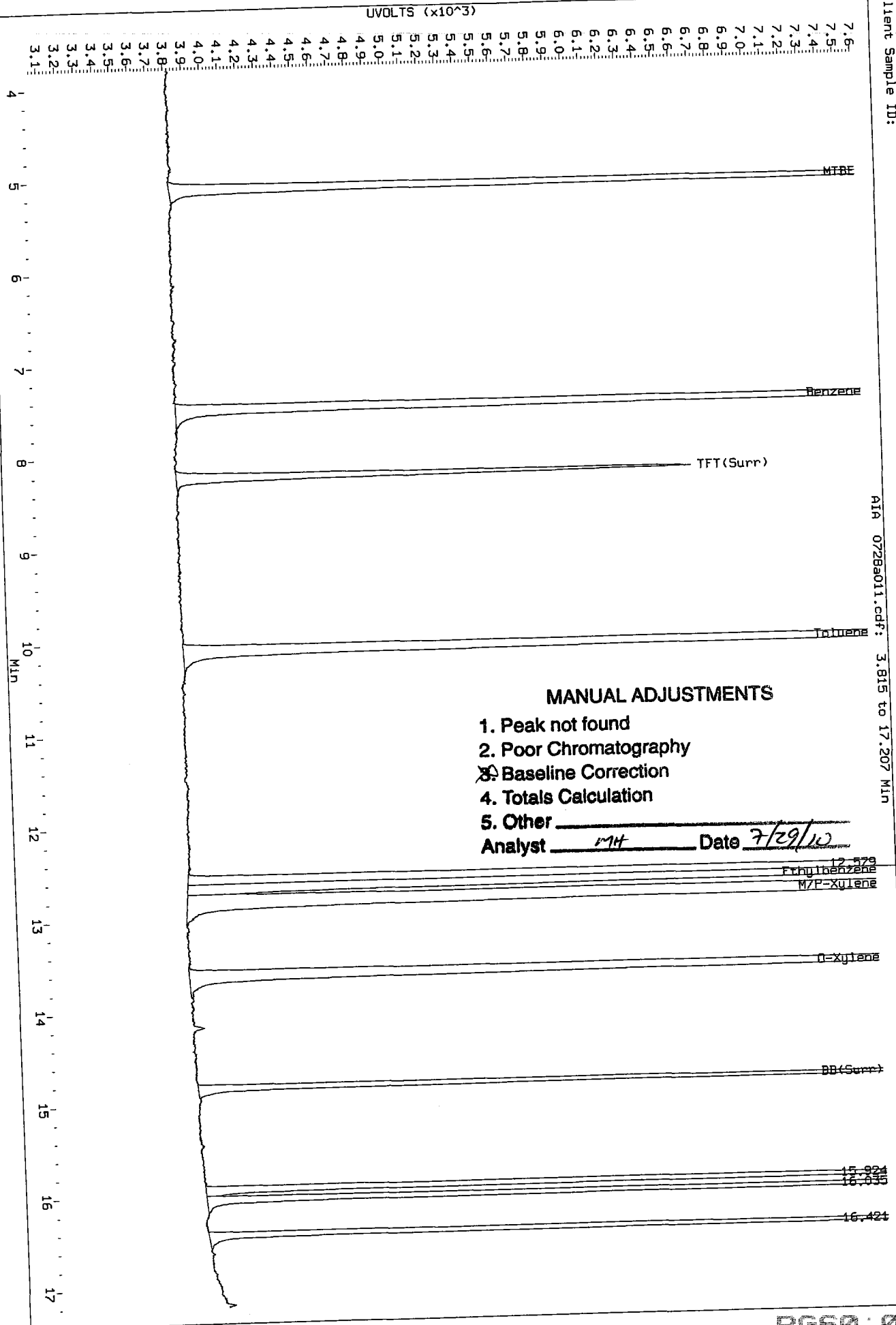
Data File: /chem3/pid2.1/072810-2.b/0728a011.d/0728a011.cdf
Injection Date: 28-JUL-2010 12:06
Instrument: pid2.1
Client Sample ID:



AIA 0728a011.cdf: 3.815 to 17.207 Min

Data File: /chem3/pid2.1/072810-2.b/0728a011.d/0728a011.cdf
 Injection Date: 28-JUL-2010 12:06
 Instrument: pid2.1
 Client Sample ID:

AIA 0728a011.cdf: 3.815 to 17.207 MIN



MH
7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/072810-1.b/0728a012.d
Data file 2: /chem3/pid2.i/072810-2.b/0728a012.d
Method: /chem3/pid2.i/072810-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 28-JUL-2010

ARI ID: BETX ICV
Client ID:
Injection Date: 28-JUL-2010 12:32
Matrix: WATER
Dilution Factor: 1.000

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FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	-----	-----	-----
8.174	-0.003	3960	64107	95.4	TFT(Surr)
14.797	-0.001	2909	26209	96.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
-----	-----	-----
WAGas (Tol-C12)	401291	0.696
8015B (2MP-TMB)	412324	0.316
AKGas (nC6-nC10)	378602	0.426
NWGas (Tol-Nap)	401291	0.667

* Surrogate areas are subtracted from Total Area

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PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	-----	-----
8.222	-0.003	1379	96.0	TFT(Surr)
14.823	-0.002	5651	97.2	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.478	-0.005	2772	23.80	Benzene
10.088	-0.005	2468	23.79	Toluene
12.649	-0.007	2598	22.67	Ethylbenzene
12.795	-0.008	4827	49.81	M/P-Xylene
13.600	-0.005	2498	24.60	O-Xylene
5.094	-0.006	1016	24.20	MTBE

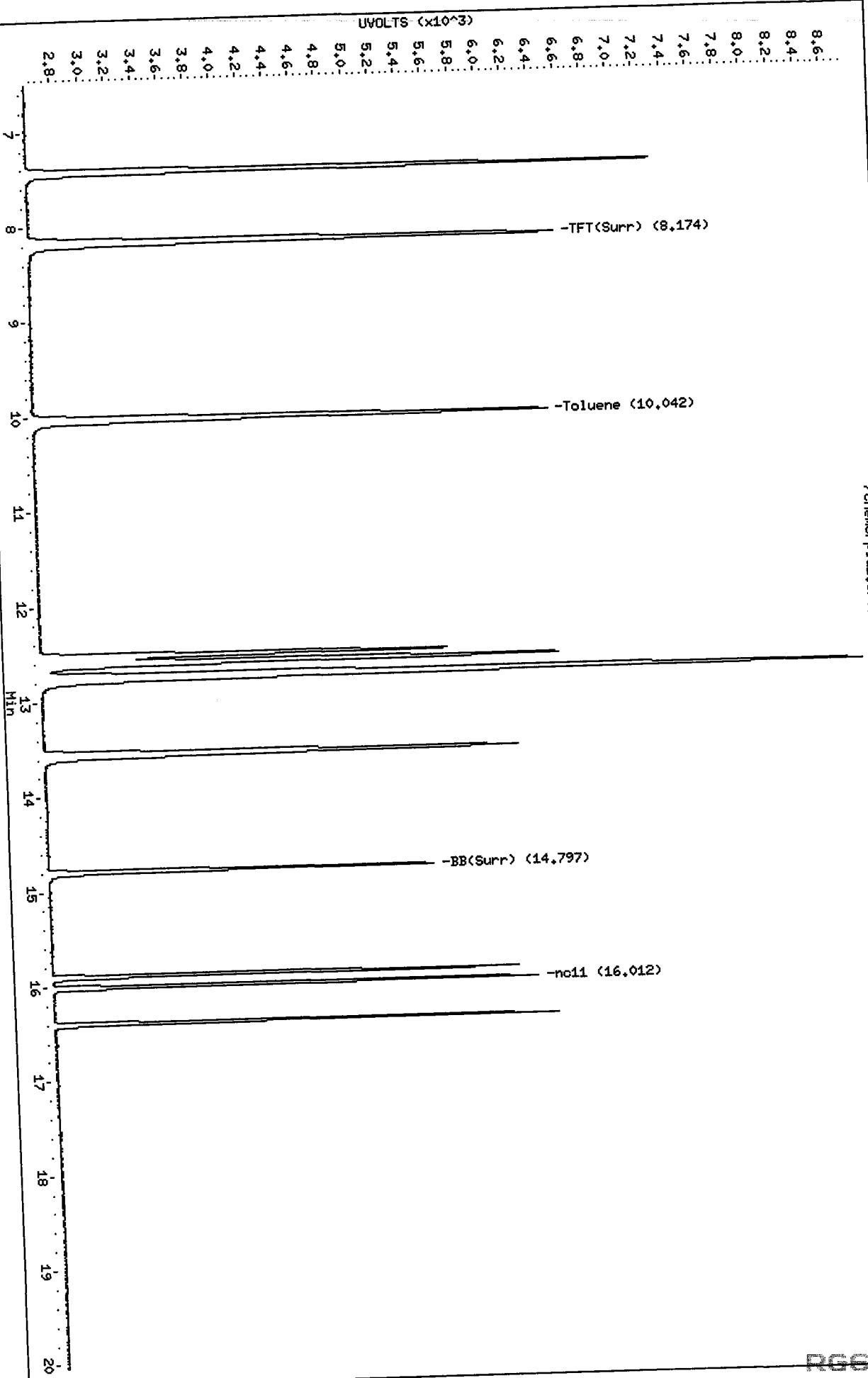
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/072810-1.b/0728a012.d
Date: 28-JUL-2010 12:32
Client ID:
Sample Info: BETX ICV

Instrument: pid2.i
Operator: MH
Column diameter: 0.18

Column phase: RTX 502-2 FID

/chem3/pid2.i/072810-1.b/0728a012.d/0728a012.odf



Data File: /chem3/pid2.i/072810-2.b/0728a012.d

Date: 28-JUL-2010 12:32

Client ID:

Sample Info: BETX ICV

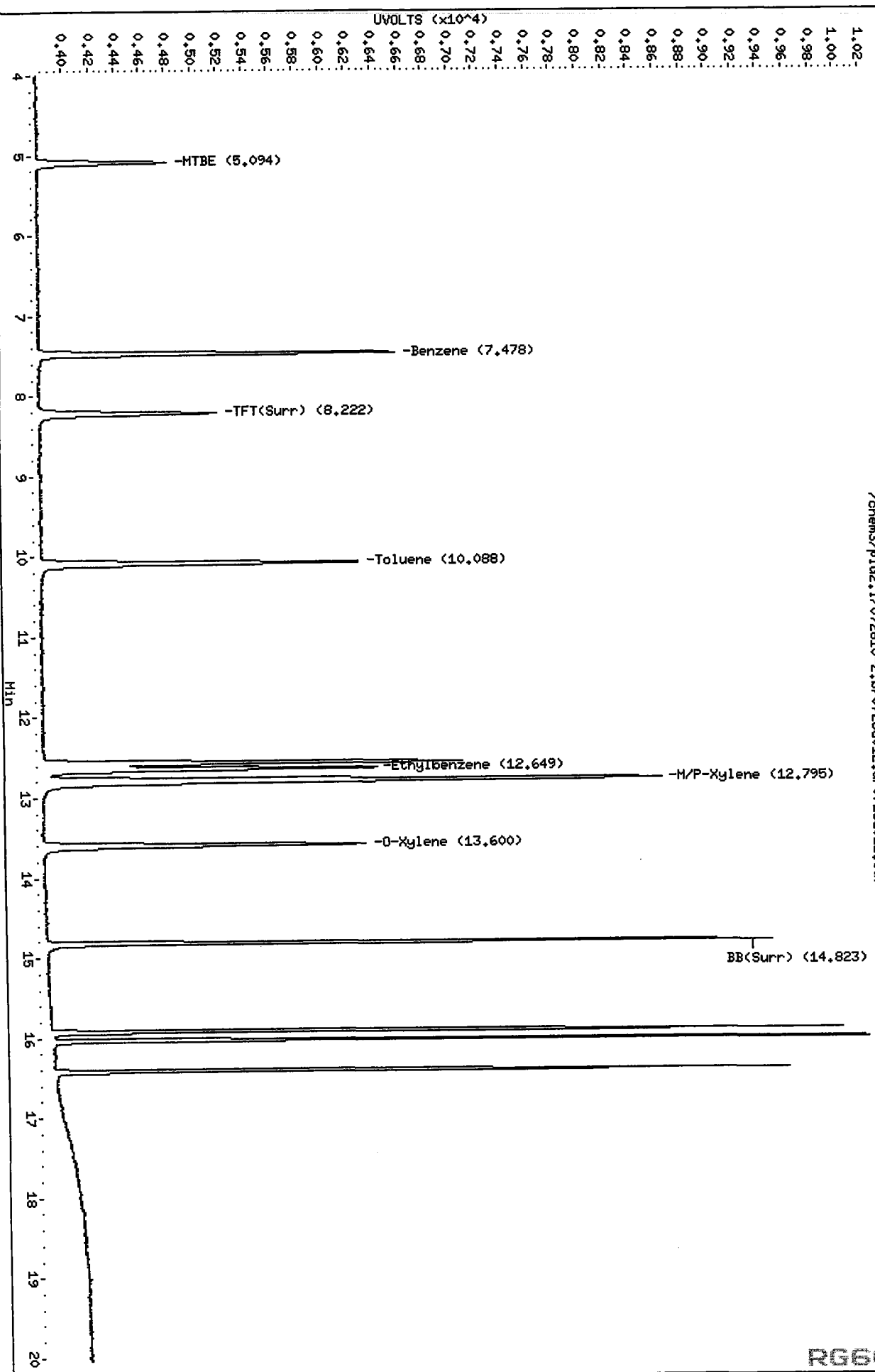
Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: MH

Column diameter: 0.18

/chem3/pid2.i/072810-2.b/0728a012.d/0728a012.cdf



Report Date : 29-Jul-2010 11:33

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid2.i/072810-1.b/FID.m
Batch File: /chem3/pid2.i/072810-1.b
Inst ID: pid2.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
18 NTPHG	0728a006	0728a007	0728a008	0728a009	0728a010	0728a010	0728a011	0.492	0.422-0.562	0.422	0.003
20 WAGAS	28-JUL-2010 09:56	28-JUL-2010 10:22	28-JUL-2010 10:48	28-JUL-2010 11:14	28-JUL-2010 11:40	28-JUL-2010 11:40	28-JUL-2010 12:06	0.937	0.867-1.007	0.937	0.003
19 AKI01	0728a006	0728a007	0728a008	0728a009	0728a010	0728a010	0728a011	1.251	1.181-1.321	1.251	0.003
21 8015GAS	0728a006	0728a007	0728a008	0728a009	0728a010	0728a010	0728a011	1.539	1.469-1.609	1.539	0.003
1 2-Methylpentane	0728a006	0728a007	0728a008	0728a009	0728a010	0728a010	0728a011	4.834	4.764-4.904	4.834	0.003
2 nC6	0728a006	0728a007	0728a008	0728a009	0728a010	0728a010	0728a011	5.321	5.251-5.391	5.321	0.003
3 nC7	0728a006	0728a007	0728a008	0728a009	0728a010	0728a010	0728a011	7.254	7.184-7.324	7.254	0.003
4 TPT (Surr)	8.186	8.182	8.183	8.180	8.180	8.177	8.186	8.186	8.116-8.256	8.181	0.003
5 nC8	0728a006	0728a007	0728a008	0728a009	0728a010	0728a010	0728a011	9.659	9.589-9.729	9.659	0.003
6 Toluene	10.048	10.051	10.050	10.048	10.048	10.045	10.048	10.046	9.978-10.118	10.048	0.002
7 nC9	0728a006	0728a007	0728a008	0728a009	0728a010	0728a010	0728a011	12.245	12.175-12.315	12.245	0.003
22 BFB (Surr)	0728a006	0728a007	0728a008	0728a009	0728a010	0728a010	0728a011	16.027	15.957-16.097	16.027	0.003
8 nC10-Decane	0728a006	0728a007	0728a008	0728a009	0728a010	0728a010	0728a011	14.563	14.493-14.633	14.563	0.003
9 BB (Surr)	14.805	14.803	14.802	14.801	14.801	14.799	14.805	14.805	14.735-14.875	14.801	0.003
10 1,2,4-Trimethylbenzene	0728a006	0728a007	0728a008	0728a009	0728a010	0728a010	0728a011	15.438	15.368-15.508	15.438	0.003
11 nC11	16.015	16.017	16.016	16.015	16.015	16.014	16.015	16.014	15.945-16.085	16.015	0.001
12 nC12-Dodecane	0728a006	0728a007	0728a008	0728a009	0728a010	0728a010	0728a011	17.048	16.978-17.118	17.048	0.003

Reviewer 1 MH Date: 7/29/10
Reviewer 2 [Signature] Date: 7/29/10

Report Date : 29-Jul-2010 11:33

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid2.i/072810-1.b/FID.m
Batch File: /chem3/pid2.i/072810-1.b
Inst ID: pid2.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
13 nCl3	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.890	17.820-17.960	+++++	+++++
14 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.148	18.078-18.218	+++++	+++++

Report Date : 29-Jul-2010 11:34

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid2.i/072810-2.b/PIDB.m
Batch File: /chem3/pid2.i/072810-2.b
Inst ID: pid2.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 MTBE	5.117	5.110	5.103	5.103	5.100	5.100	5.100	5.117	5.067-5.167	5.105	0.006
2 Benzene	7.490	7.483	7.490	7.487	7.487	7.483	7.483	7.490	7.440-7.540	7.486	0.003
3 Tft(Surr)	8.237	8.230	8.233	8.230	8.230	8.223	8.226	8.237	8.187-8.287	8.230	0.004
4 Toluene	10.093	10.090	10.097	10.093	10.097	10.093	10.093	10.093	10.043-10.143	10.094	0.002
15 Chlorobenzene	12.660	12.660	12.658	12.656	12.656	12.654	12.656	12.660	12.610-12.710	12.657	0.002
5 Ethylbenzene	12.813	12.810	12.803	12.800	12.803	12.799	12.803	12.813	12.763-12.863	12.805	0.005
6 M/P-Xylene	13.617	13.603	13.610	13.607	13.607	13.603	13.605	13.617	13.587-13.647	13.607	0.005
7 O-Xylene	14.830	14.830	14.830	14.827	14.827	14.825	14.825	14.830	14.780-14.880	14.828	0.002
19 BFB(Surr)	16.433	16.433	16.433	16.433	16.433	16.433	16.433	16.433	16.403-16.463	16.433	0.000
8 BB(Surr)	16.905	16.905	16.905	16.905	16.905	16.905	16.905	16.905	16.875-16.935	16.905	0.000
13 1,3,5 Trimethyl Benzen	16.863	16.863	16.863	16.863	16.863	16.863	16.863	16.863	16.833-16.893	16.863	0.000
14 1,2,4 Trimethyl Benzen	16.979	16.979	16.979	16.979	16.979	16.979	16.979	16.979	16.949-17.009	16.979	0.000
16 1,3 Dichlorobenzene	17.371	17.371	17.371	17.371	17.371	17.371	17.371	17.371	17.341-17.401	17.371	0.000
17 1,4 Dichlorobenzene	17.371	17.371	17.371	17.371	17.371	17.371	17.371	17.371	17.341-17.401	17.371	0.000
18 1,2 Dichlorobenzene	17.371	17.371	17.371	17.371	17.371	17.371	17.371	17.371	17.341-17.401	17.371	0.000

Date: 7/29/10
Date: 7/30/10

Reviewer 1 MH
Reviewer 2 [Signature]



VOA Analyst Notes / Corrective Action Log

ARI Project ID: Gas Curve Client ID: _____

ARI SOP: 404S(Gas) 410S(BTEX) 430S(VPH) 700S(8260C) 703S(SIM) 706S(524.2) 710S(RSK-175)

Parameter(s): Gas

Instrument: NT-3 NT-5 NT-7 NT-9 NT-10 PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 5 Curve Date: 7/28/10 Analysis Start Date: 7/28/10

pH ≤ 2.0	YES / NO <u>NA</u>	Method Blank In Control?	<u>YES</u> / NO
BFB Tune Meets Criteria?	YES / NO <u>NA</u>	LCS / LCSD Recovery In Control?	<u>YES</u> / NO
Internal Standard Meets Criteria?	YES / NO <u>NA</u>	Surrogate Recovery In Control?	<u>YES</u> / NO
ICal acceptable?	<u>YES</u> / NO	CCal acceptable?	<u>YES</u> / NO
Q flag applied?	YES / NO <u>NA</u>	Q flag applied?	YES / NO <u>NA</u>
Manual Integrations for ICal?	<u>YES</u> / NO	Manual Integrations for Samples?	<u>Yes</u> / NO
Special Analysis Criteria Met?	YES / NO <u>NA</u>		

Bubbles/Headspace: None SM (≤ 2mm ●) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Gas ICU Targeted 2.5

Additional Details on Reverse: Yes / No

Analyst: [Signature] Date: 7/29/10

Reviewer: [Signature] Date: 7/29/10

Analytical Resources Inc.: Organics Instrument Log

PID-3 HP 5890 Series II - Serial No.: 2728A-13336

Date: 7/28/10 Analysis: NWTP46 Analyst: MH

GC Program: BETA Column No: 832213 Column Type: RTX502-2

Instrument Tune (.U or .CT.): _____ EM Voltage: _____

Calibration File: _____ Curve Date: 7/28/10

IS/SS	Ical/Ccal	LCS/ICV
<u>VW632-3</u>	<u>VW635-1</u>	<u>VW618-1</u>
	<u>VW644-3</u>	<u>VW647-2</u>
	<u>VW647-2</u>	

Time	Filename	LabID	ClientID	Vial#	pH	DF			
1	0653	0728a001.d	RINSE			1			
2	0718	0728a002.d	RT+BCAL 1			1			
3	0742	0728a003.d	GAS .1			1			
4	0807	0728a004.d	GAS .25			1			
5	0831	0728a005.d	GAS 1 ²⁰			1			
6	0856	0728a006.d	GAS 2.5			1			
7	0920	0728a007.d	GAS 5			1			
8	0945	0728a008.d	GAS 20			1			
9	1009	0728a009.d	RINSE			1			
10	1034	0728a010.d	GAS ICV			1			
11	1117	0728a011.d	RINSE			1			
12	1142	0728a012.d	GAS .1			1			
13	1238	0728a013.d	LCS0728			1			
14	1303	0728a014.d	LCS0728			1			
15	1328	0728a015.d	MB0728			1			
16	1410	0728a016.d	RF80K	GTSP-TB-03		1			
17	1435	0728a017.d	RF82E	LLASB10-2		0.00			
18	1459	0728a018.d	RF82G	LLASB10-5		0.00			
19	1523	0728a019.d	RF82H	LLASB10-5S		0.00			
20	1548	0728a020.d	RF82J	LLASB10-8		0.00			
21	1613	0728a021.d	RF82O	LLASB06-2		0.00			
22	1637	0728a022.d	RINSE			1			
23	1702	0728a023.d	GCAL 2						1
24	1726	0728a024.d	RF82Q	LLASB06-5		0.00			
25	1751	0728a025.d	RF82S	LLASB06-8		0.00			
26	1816	0728a026.d	RF83A	LLASB06-8S		0.00			
27	1840	0728a027.d	RF83B	LLASB11-8		0.00			
28	1904	0728a028.d	RF83C	LLASB11-5		0.00			
29	1929	0728a029.d	RF83D	LLASB11-2		0.00			
30	1953	0728a030.d	RG01D	LLASB01-5		0.00			
31	2018	0728a031.d	RG01E	LLASB01-5S		0.00			
32	2042	0728a032.d	RG01EMS						1
33	2107	0728a033.d	RG01EMSD						1
34	2132	0728a034.d	RINSE						1
35	2156	0728a035.d	GCAL3						1
36	2221	0728a036.d	RG01F	LLASB01-6.5		0.00			
37	2246	0728a037.d	RG01G	LLASB01-8		0.00			
38	2311	0728a038.d	RF74A	SYASB01-5		0.00			
39	2335	0728a039.d	RF80A	SYASB05-5		0.00			
40	0000	0728a040.d	RF80B	SYASB05-5S		0.00			
41	0025	0728a041.d	RF80C	SYASB05-8		0.00			
42	0049	0728a042.d	RINSE						1
43	0114	0728a043.d	GCAL 4						1

MH 7/29/10

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

MH
7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100728-2.b/0728a012.d ARI ID: GAS .1
Data file 2: /chem3/pid3.i/20100728-1.b/0728a012.d Client ID:
Method: /chem3/pid3.i/20100728-1.b/PIDB.m Injection Date: 28-JUL-2010 11:42
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.425	0.017	7873	93810	109.4	TFT(Surr)
14.901	0.013	4596	37219	106.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	100925	0.122 M
8015B 2MP-TMB (4.92 to 15.58)	1664107	195939	0.118 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	134256	0.119 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	110221	0.125 M

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.424	0.017	23728	107.9	TFT(Surr)
14.900	0.013	47912	105.1	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
10.290	0.018	4229	3.20	Toluene
12.825	0.020	1325	1.07	Ethylbenzene
12.964	0.022	4623	3.43	M/P-Xylene
13.742	0.018	1960	1.53	O-Xylene
5.294	0.007	3815	10.72	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /ohems3/pid3.i/20100728-2.b/0728a010.d

Date : 28-JUL-2010 10:34

Client ID:

Sample Info: GAS ICV

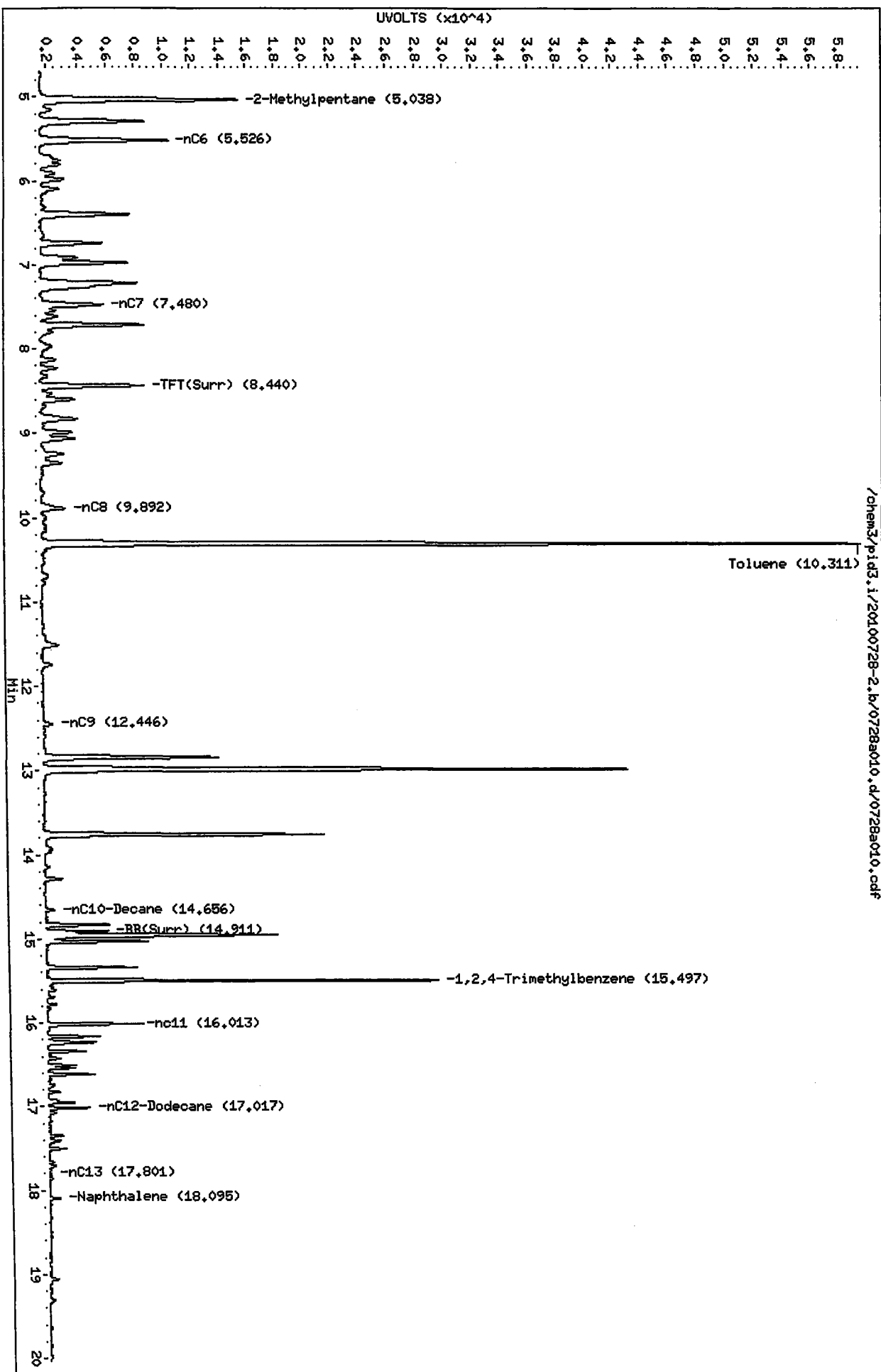
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: MH

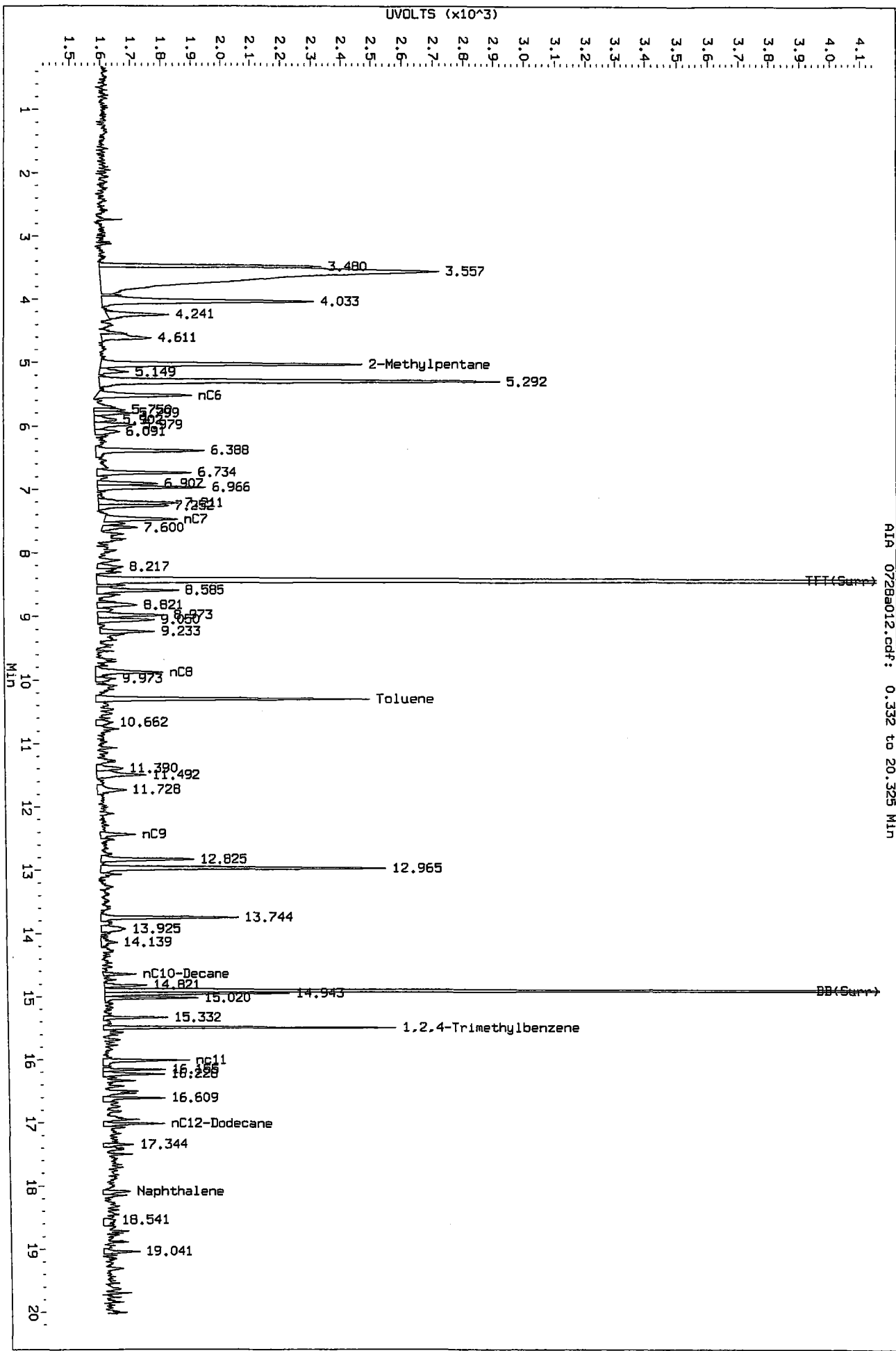
Column diameter: 0.18

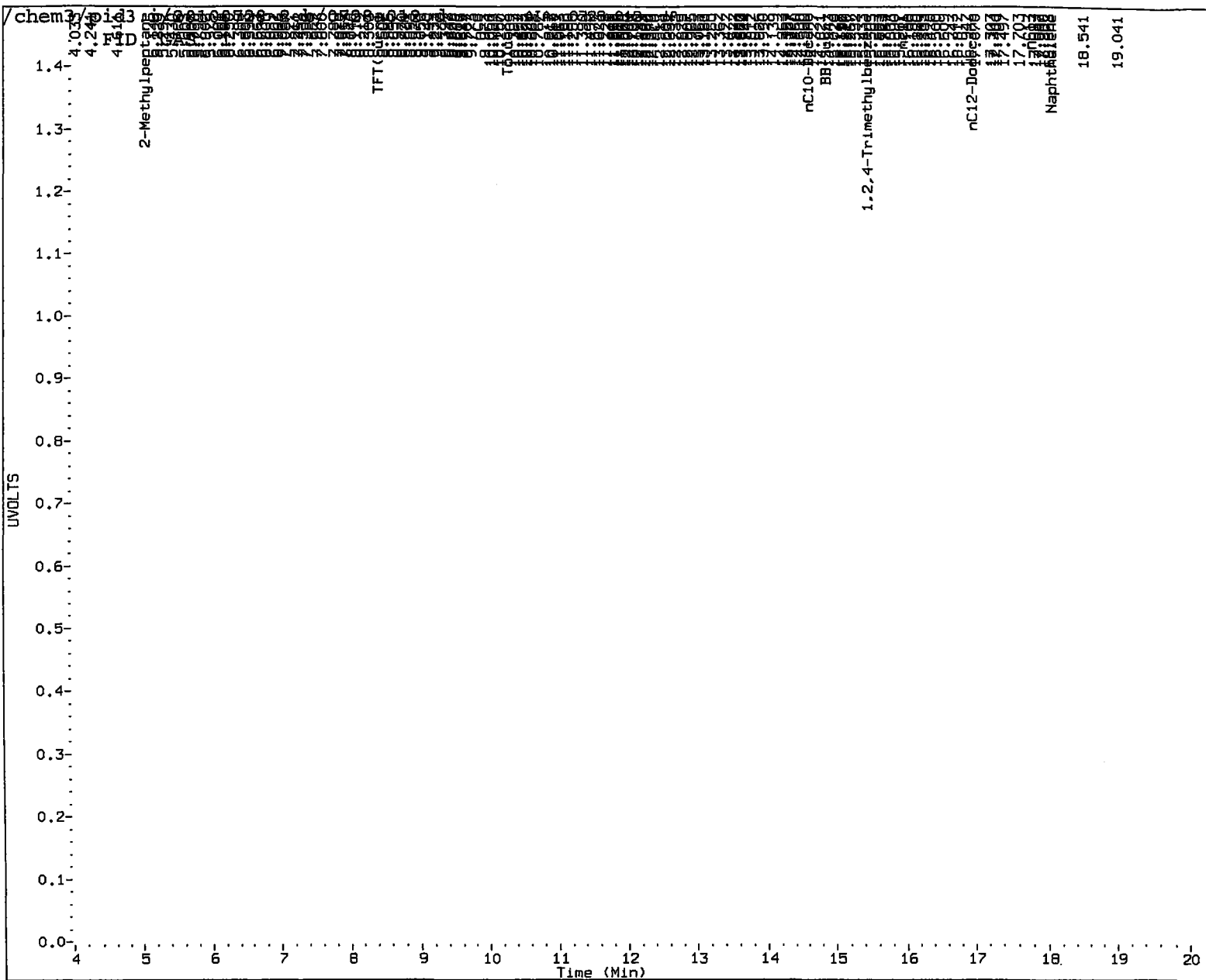
/ohems3/pid3.i/20100728-2.b/0728a010.d/0728a010.cdf



MH
7/16/10
01169110

Data File: /chem3/pid3.1/20100728-2.b/0728a012.d/0728a012.cdf
Injection Date: 28-JUL-2010 11:42
Instrument: pid3.1
Client Sample ID:





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 7/29/10

MH
7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100728-2.b/0728a004.d ARI ID: GAS .25
Data file 2: /chem3/pid3.i/20100728-1.b/0728a004.d Client ID:
Method: /chem3/pid3.i/20100728-1.b/PIDB.m Injection Date: 28-JUL-2010 08:07
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.435	0.027	7186	84666	99.8	TFT(Surr)
14.907	0.019	4308	34905	100.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	193174	0.233 M
8015B 2MP-TMB (4.92 to 15.58)	1664107	400040	0.240 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	266719	0.236 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	207460	0.235 M

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.434	0.027	21029	95.7	TFT(Surr)
14.906	0.020	44130	96.8	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.711	0.024	617	0.47	Benzene
10.300	0.029	9631	7.30	Toluene
12.835	0.030	2739	2.20	Ethylbenzene
12.974	0.032	10740	7.98	M/P-Xylene
13.751	0.027	4547	3.54	O-Xylene
5.301	0.013	9271	26.06	MTBE

A Indicates Peak Area was used for quantitation instead of Height

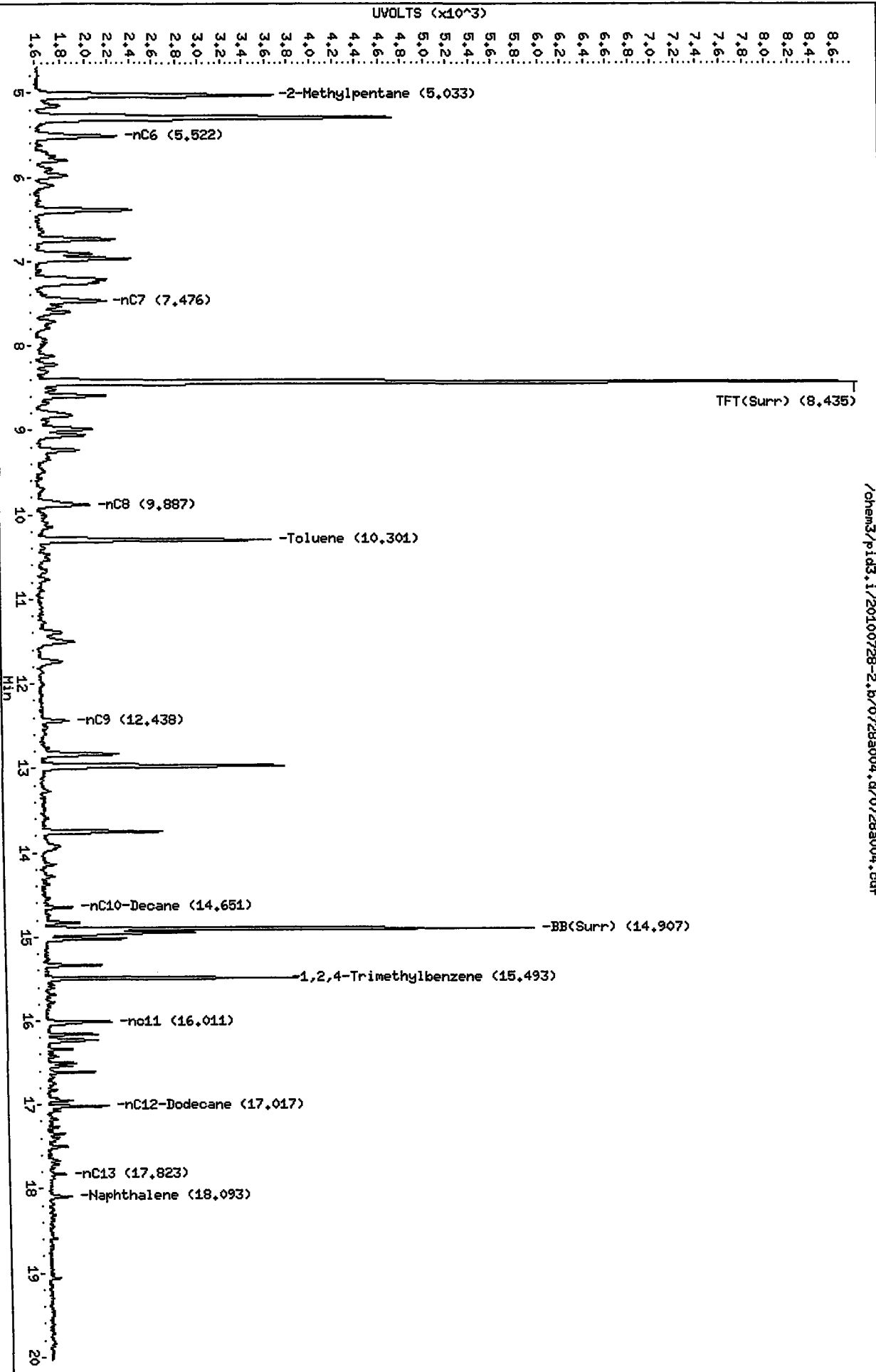
N Indicates peak peak was manually integrated

Data File: /chem3/pid3,i/20100728-2.b/0728a004.d
Date: 28-JUL-2010 08:07
Client ID:
Sample Info: GAS .25

Column phase: RTX 502-2 FID

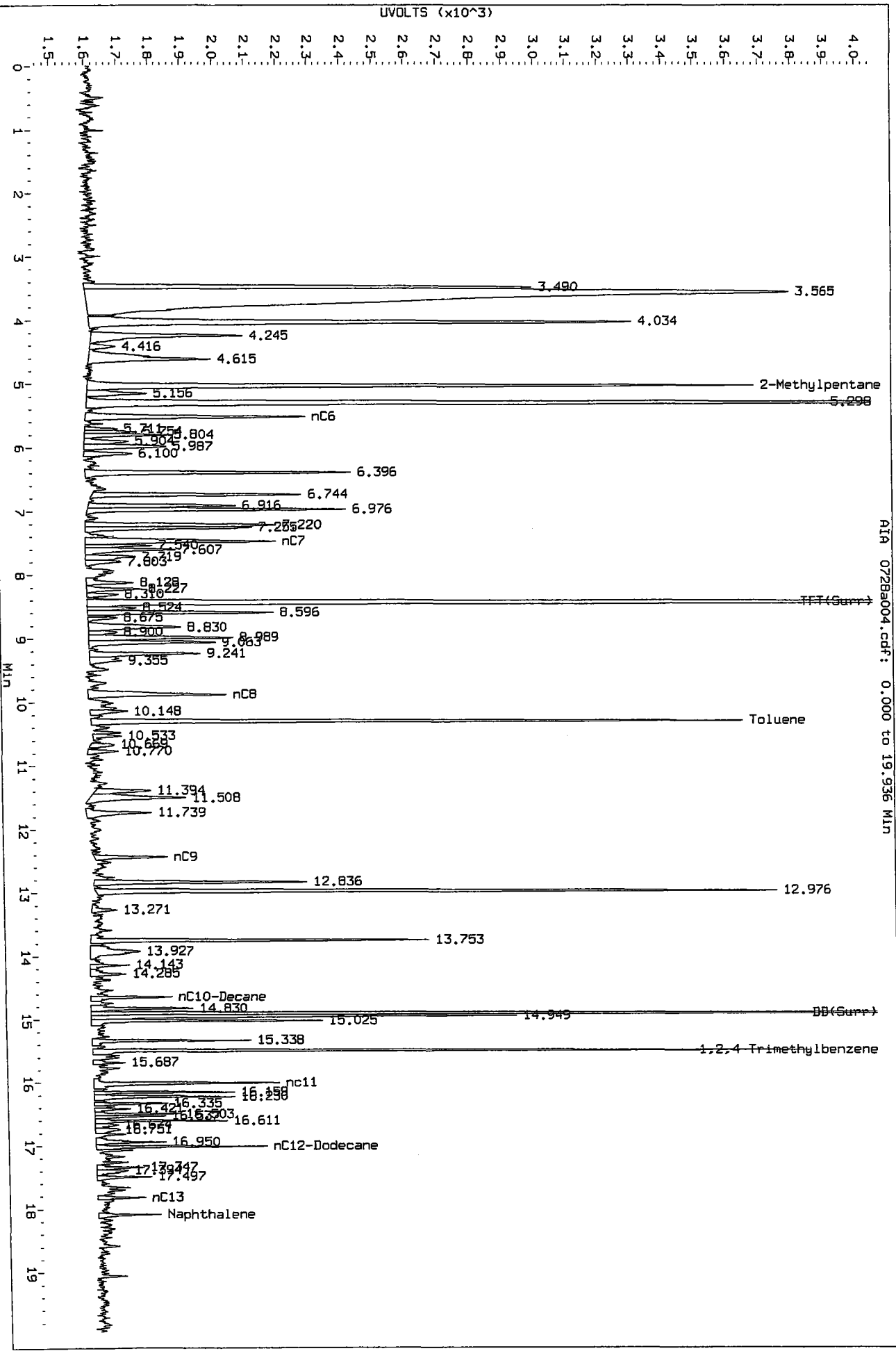
/chem3/pid3,i/20100728-2.b/0728a004.d/0728a004.cdf

Instrument: pid3.i
Operator: HH
Column diameter: 0.18

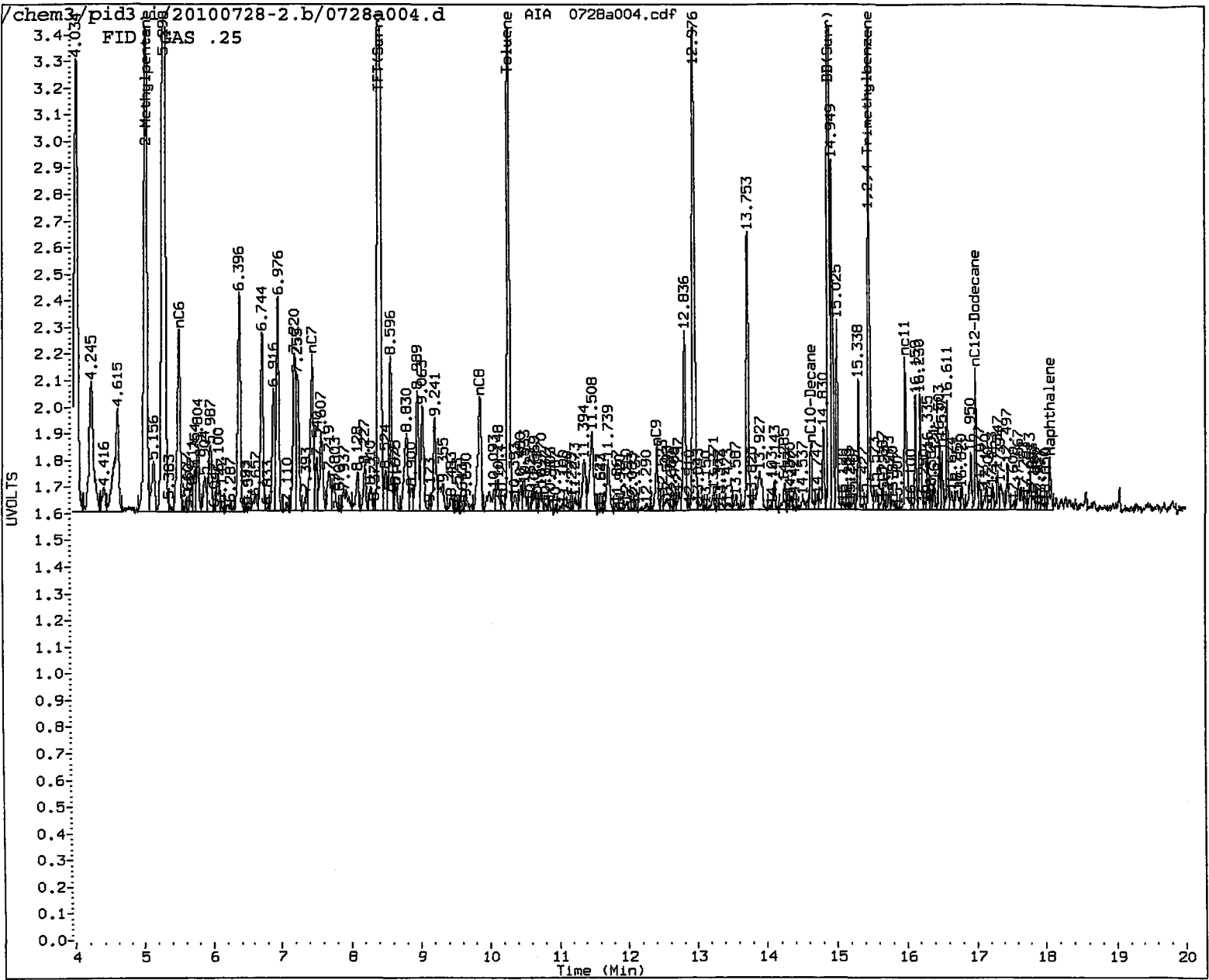


MH
7/29/10

Data File: /chem3/p1d3.1/20100728-2.b/0728a004.d/0728a004.cdf
Injection Date: 28-JUL-2010 08:07
Instrument: p1d3.1
Client Sample ID:



AIA 0728a004.cdf: 0.000 to 19.936 MIN



MANUAL INTEGRATION

1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation
5. Other _____

Analyst: MH

Date: 7/29/10

MH
7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100728-2.b/0728a005.d ARI ID: GAS 1
Data file 2: /chem3/pid3.i/20100728-1.b/0728a005.d Client ID:
Method: /chem3/pid3.i/20100728-1.b/PIDB.m Injection Date: 28-JUL-2010 08:31
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.437	0.029	7240	85071	100.6	TFT (Surr)
14.910	0.022	4266	35061	99.1	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	761867	0.920 M
8015B 2MP-TMB (4.92 to 15.58)	1664107	1564234	0.940 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	1050254	0.928 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	811111	0.920 M

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.436	0.029	21131	96.1	TFT (Surr)
14.908	0.022	43950	96.4	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.713	0.026	2868	2.17	Benzene
10.303	0.032	37994	28.79	Toluene
12.838	0.033	10898	8.77	Ethylbenzene
12.978	0.036	42543	31.59	M/P-Xylene
13.754	0.029	17526	13.64	O-Xylene
5.302	0.015	35267	99.12	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100728-2.k/0728a005.d

Date: 28-JUL-2010 08:31

Client ID:

Sample Info: GAS 1

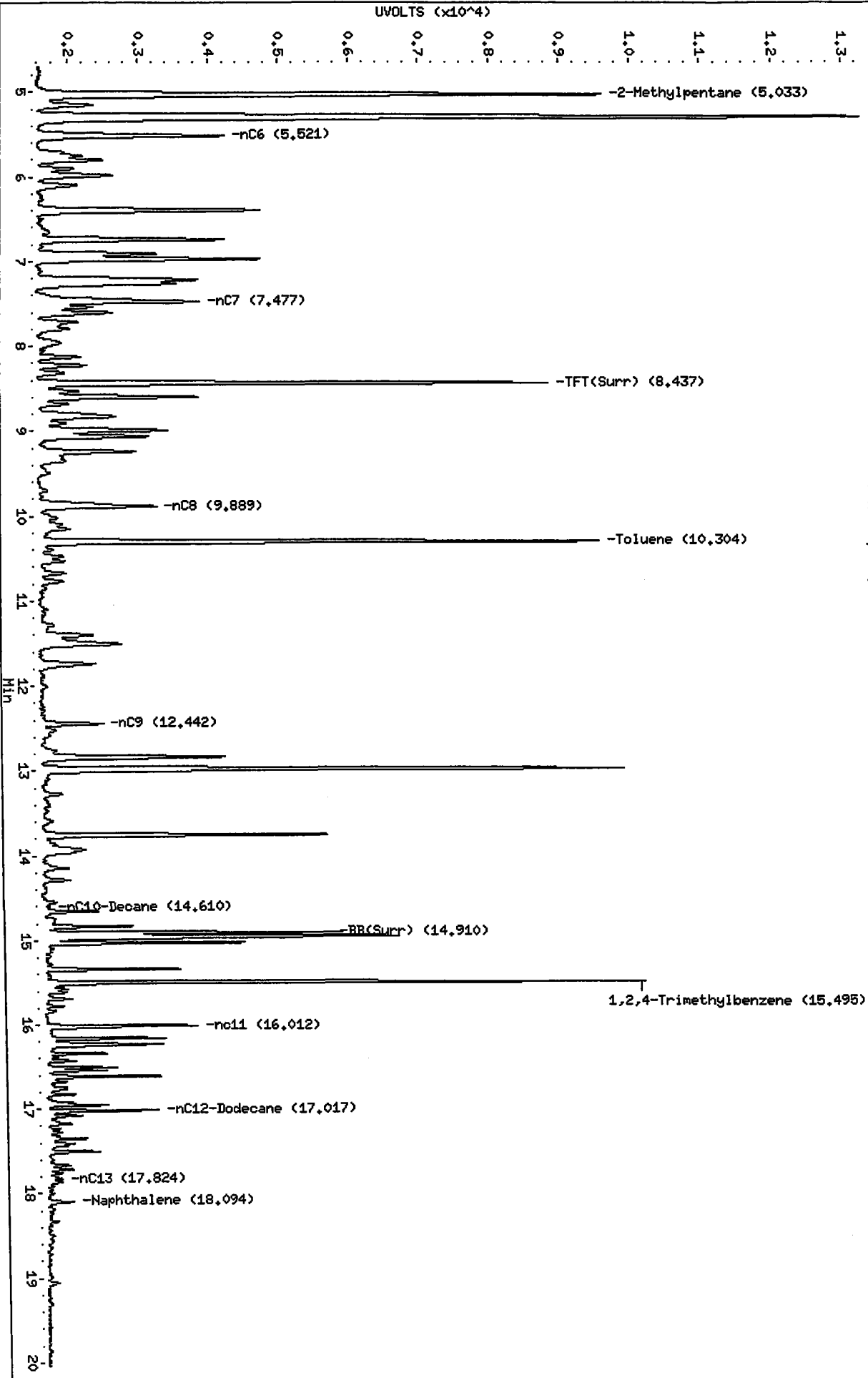
Instrument: pid3.i

Operator: HH

Column diameter: 0.18

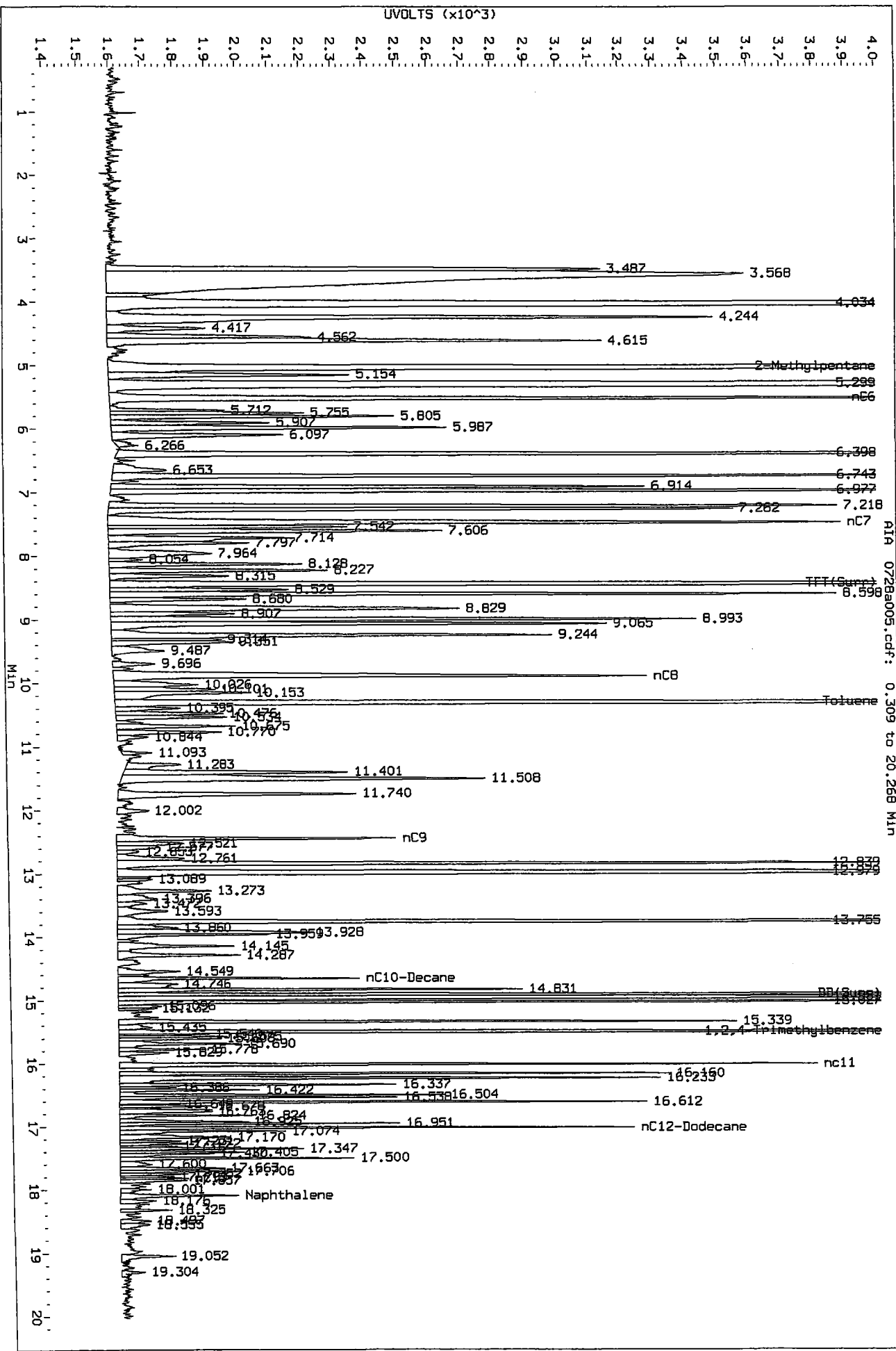
Column phase: RTX 502-2 FID

/chem3/pid3.i/20100728-2.k/0728a005.d/0728a005.pdf



MH
7/19/10

Data File: /chem3/pid3.1/20100728-2.b/0728a005.d/0728a005.cdf
Injection Date: 28-JUL-2010 08:31
Instrument: pid3.i
Client Sample ID:



7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100728-2.b/0728a006.d
Data file 2: /chem3/pid3.i/20100728-1.b/0728a006.d
Method: /chem3/pid3.i/20100728-1.b/PIDB.m
Instrument: pid3.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 29-JUN-2010

ARI ID: GAS 2.5
Client ID:
Injection Date: 28-JUL-2010 08:56
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.439	0.031	7507	89299	104.3	TFT (Surr)
14.911	0.023	4475	36770	103.9	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	1957108	2.364 M
8015B 2MP-TMB (4.92 to 15.58)	1664107	3879004	2.331 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	2606200	2.303 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	2072468	2.350 M

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.438	0.031	21902	99.6	TFT (Surr)
14.909	0.023	45851	100.6	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.715	0.028	7095	5.37	Benzene
10.306	0.034	94086	71.29	Toluene
12.840	0.036	27296	21.97	Ethylbenzene
12.981	0.039	105425	78.29	M/P-Xylene
13.756	0.032	43640	33.97	O-Xylene
5.306	0.019	82935	233.09	MTBE

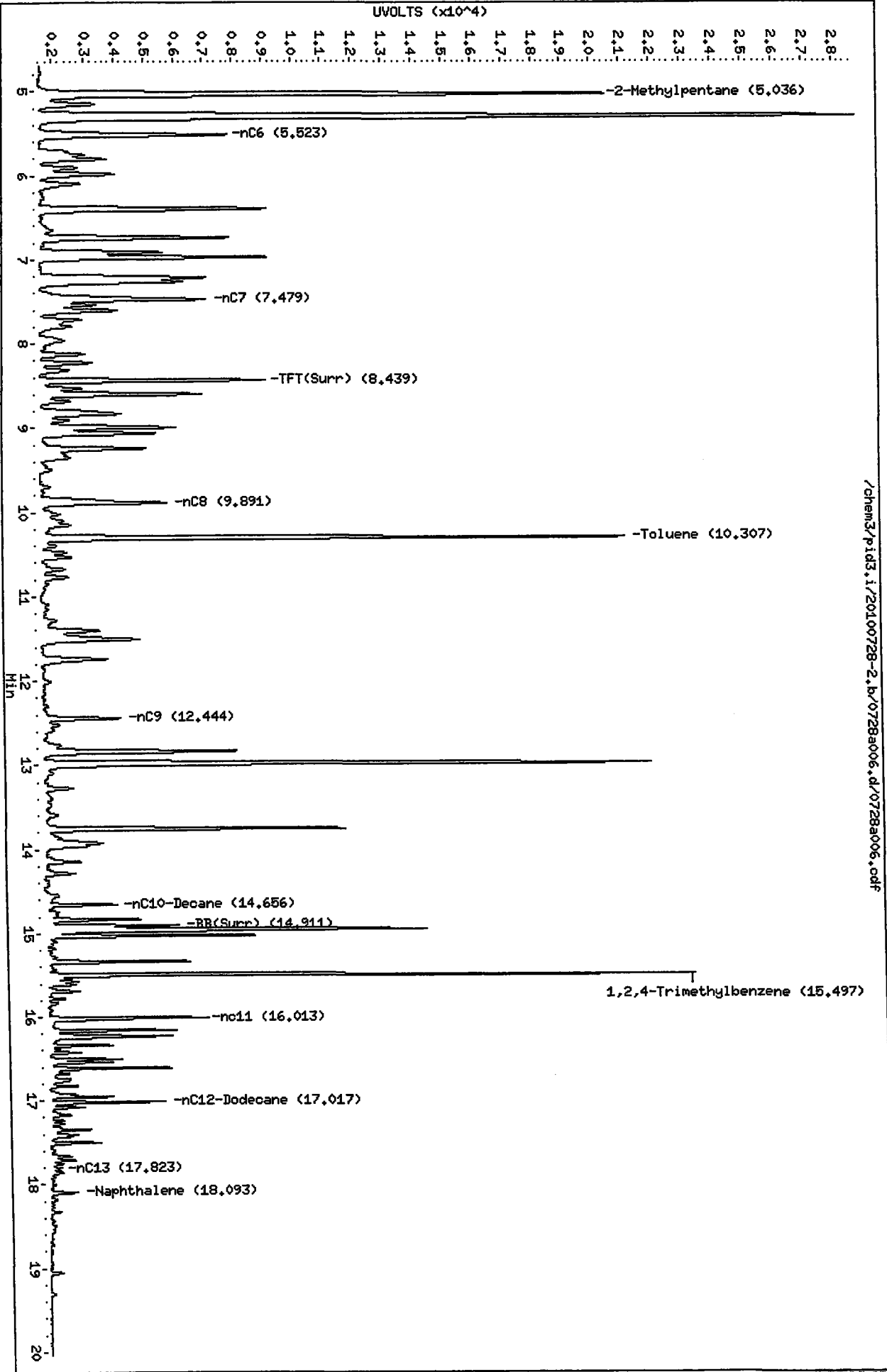
A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100728-2.b/0728a006.d
Date: 28-JUL-2010 08:56
Client ID:
Sample Info: GAS 2.5

Column Phaset: RTX 502-2 FID

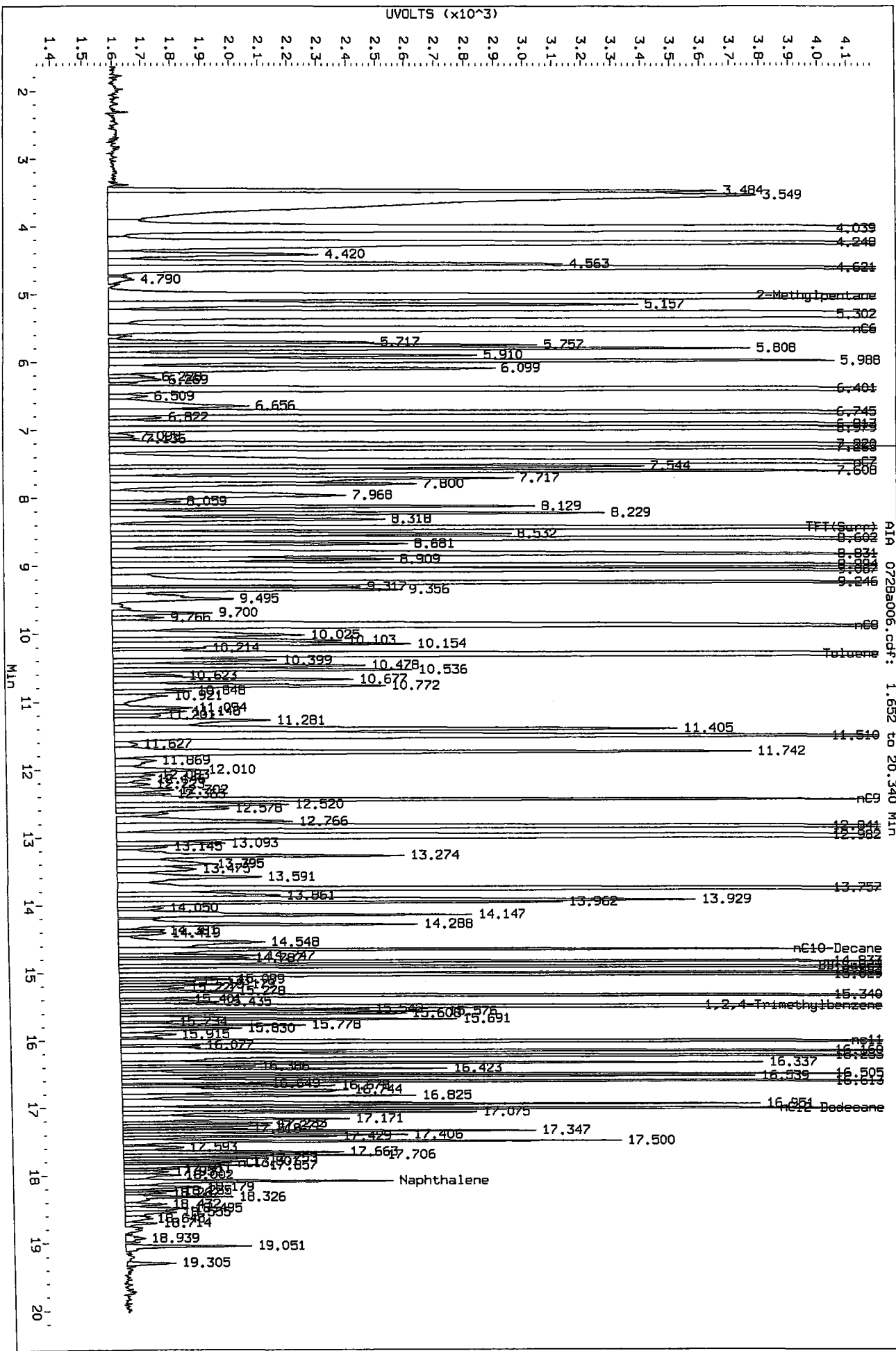
Instrument: pid3.i
Operator: MH
Column diameter: 0.18



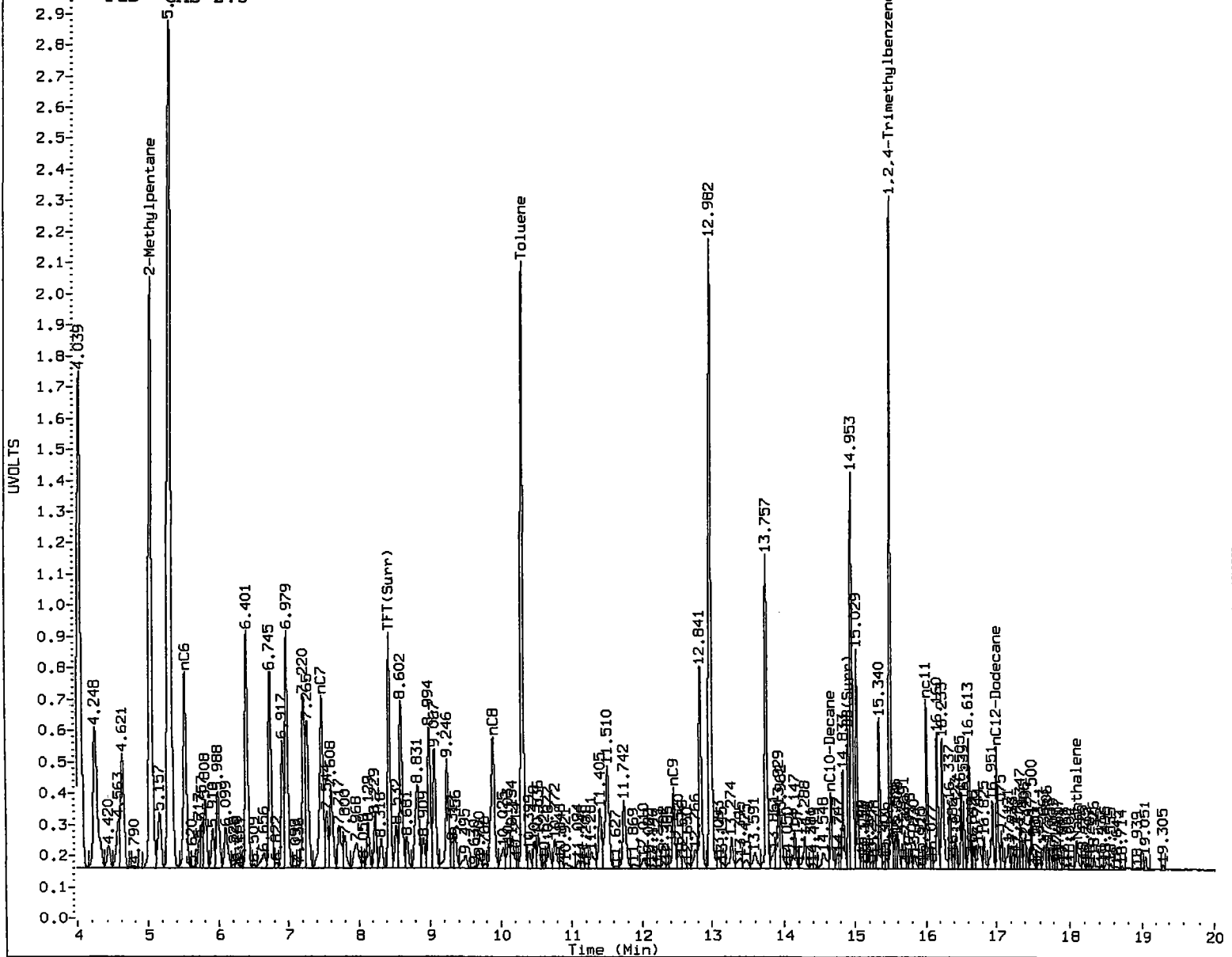
/chem3/pid3.i/20100728-2.b/0728a006.d/0728a006.cdf

MH
7/29/10

Data File: /chem3/pid3.1/20100728-2.b/0728a006.d/0728a006.cdf
Injection Date: 28-JUL-2010 08:56
Instrument: pid3.1
Client Sample ID:



FID GAS 2.5



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 7/29/10

MH
7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100728-2.b/0728a007.d ARI ID: GAS 5
Data file 2: /chem3/pid3.i/20100728-1.b/0728a007.d Client ID:
Method: /chem3/pid3.i/20100728-1.b/PIDB.m Injection Date: 28-JUL-2010 09:20
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.440	0.031	7878	94697	109.5	TFT(Surr)
14.912	0.024	4741	41421	110.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	4003725	4.837
8015B 2MP-TMB (4.92 to 15.58)	1664107	7856270	4.721 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	5316980	4.698 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	4221581	4.786

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.438	0.031	23349	106.2	TFT(Surr)
14.910	0.023	47815	104.9	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.716	0.029	14610	11.05	Benzene
10.308	0.037	191522	145.11	Toluene
12.842	0.038	56084	45.13	Ethylbenzene
12.985	0.043	209817	155.81	M/P-Xylene
13.758	0.033	88195	68.64	O-Xylene
5.308	0.021	162558	456.88	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100728-2.b/0728a007.d

Date: 28-JUL-2010 09:20

Client ID:

Sample Info: GAS 5

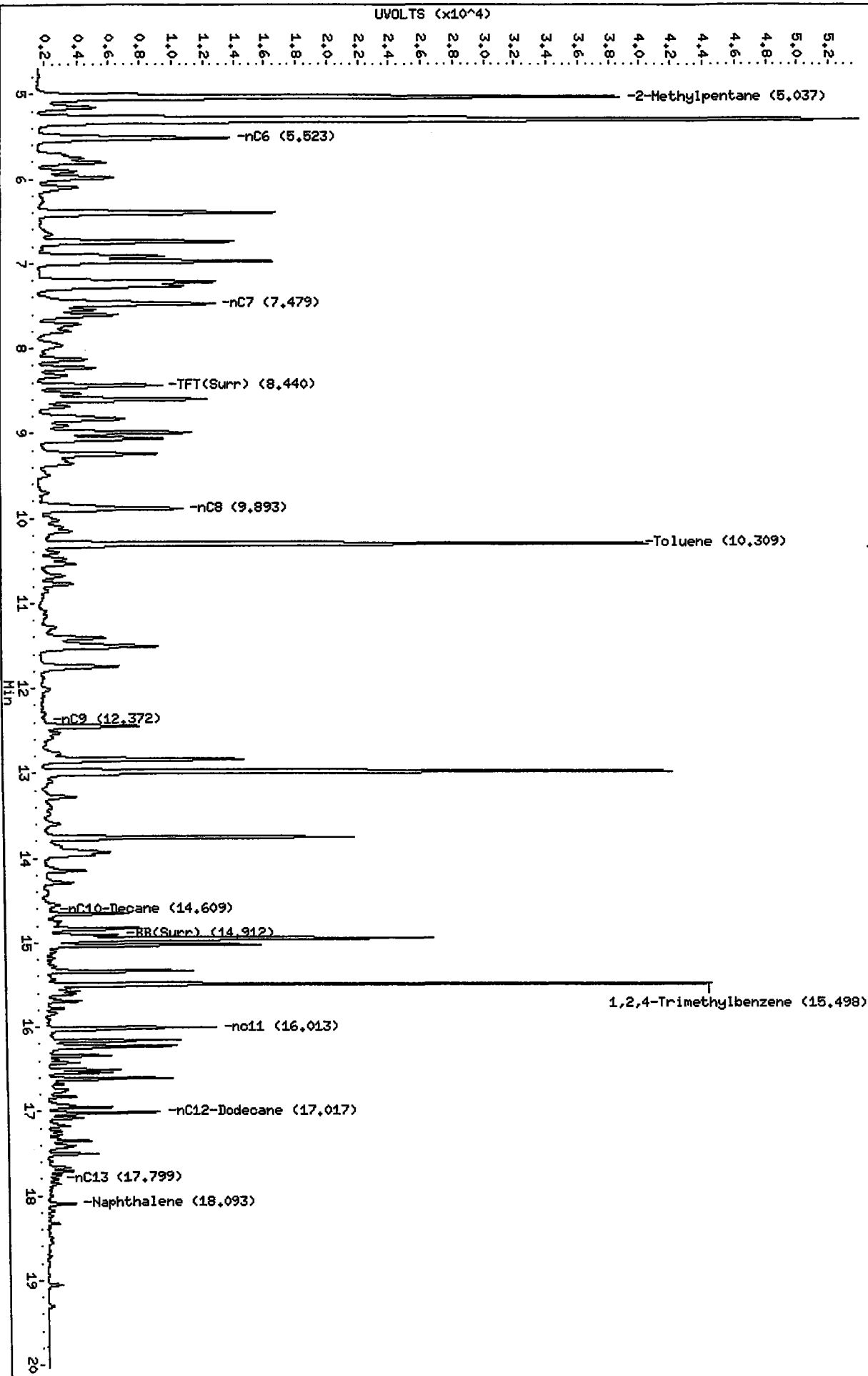
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: MH

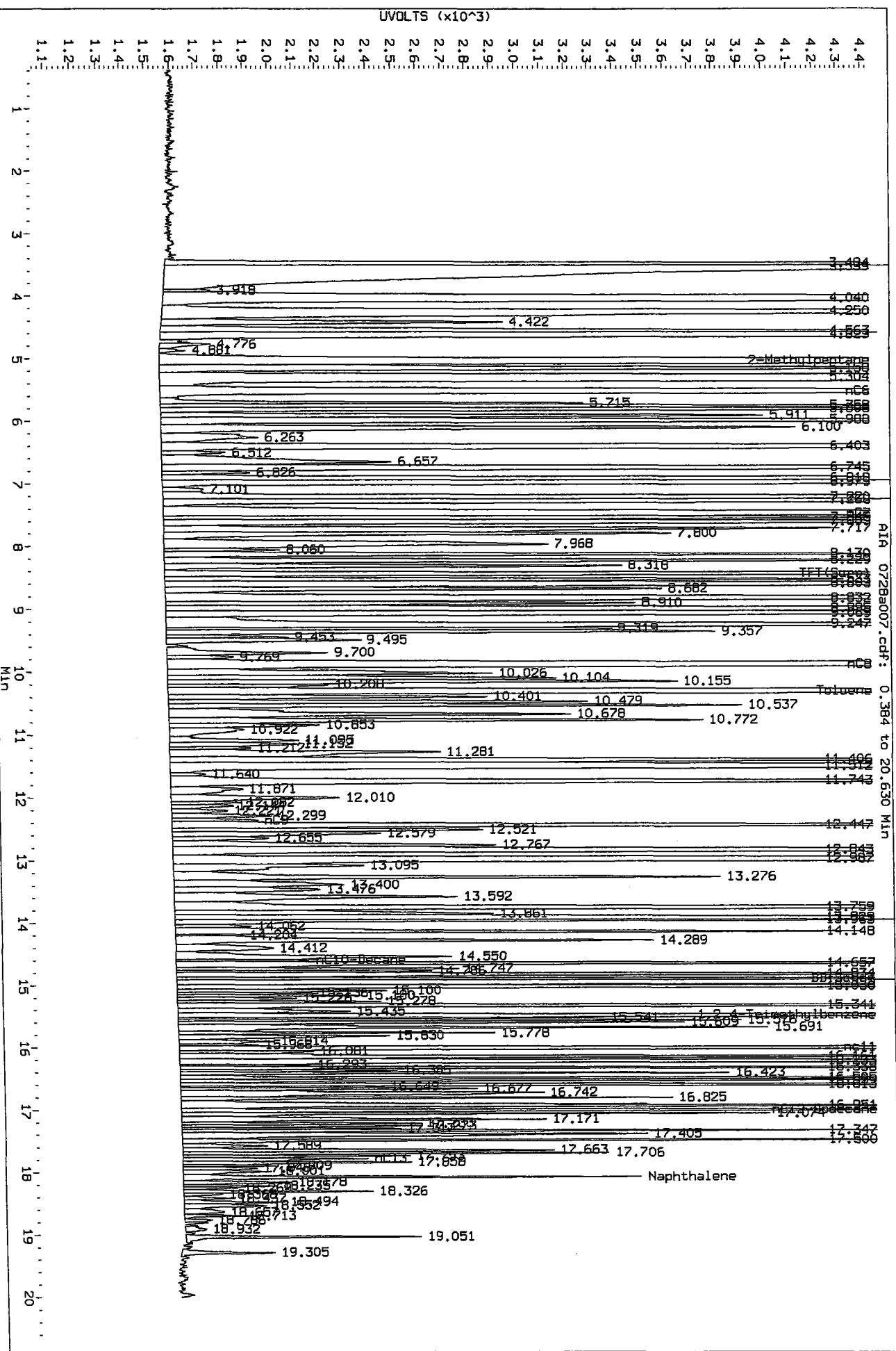
Column diameter: 0.18

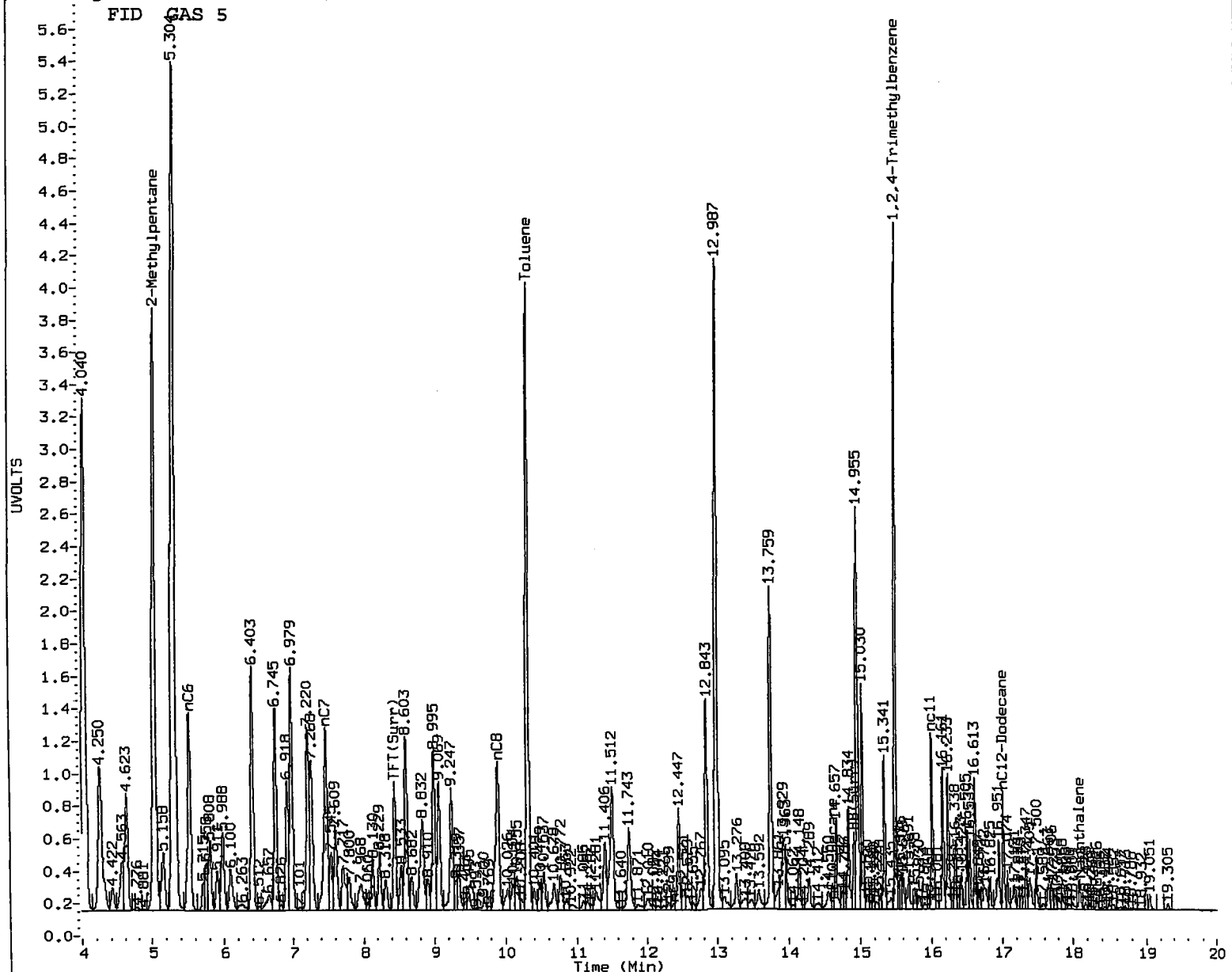
/chem3/pid3.i/20100728-2.b/0728a007.d/0728a007.cdf



MH
7/27/11

Data File: /chem3/pid3.1/20100728-2.b/0728a007.d/0728a007.cdf
Injection Date: 28-JUL-2010 09:20
Instrument: pid3.1
Client Sample ID:





MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MT Date: 7/29/10

10/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100728-2.b/0728a008.d
Data file 2: /chem3/pid3.i/20100728-1.b/0728a008.d
Method: /chem3/pid3.i/20100728-1.b/PIDB.m
Instrument: pid3.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 29-JUN-2010

ARI ID: GAS 20
Client ID:
Injection Date: 28-JUL-2010 09:45
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.440	0.032	10794	142846	150.0	TFT (Surr)
14.914	0.026	6397	57315	148.5	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	16788832	20.281
8015B 2MP-TMB (4.92 to 15.58)	1664107	34760005	20.888
AK101 nC6-nC10 (5.41 to 14.53)	1131784	24502732	21.650
NWTPHG Tol-Nap (10.17 to 18.18)	882029	17514258	19.857

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.439	0.032	28146	128.0	TFT (Surr)
14.834	-0.052	109465	240.1	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.719	0.032	57953	43.83	Benzene
10.317	0.046	742279	562.41	Toluene
12.772	-0.032	18288	14.72	Ethylbenzene
13.001	0.059	811732	602.78	M/P-Xylene
13.765	0.041	355553	276.74	O-Xylene
5.321	0.033	530538	1491.10	MTBE

A Indicates Peak Area was used for quantitation instead of Height

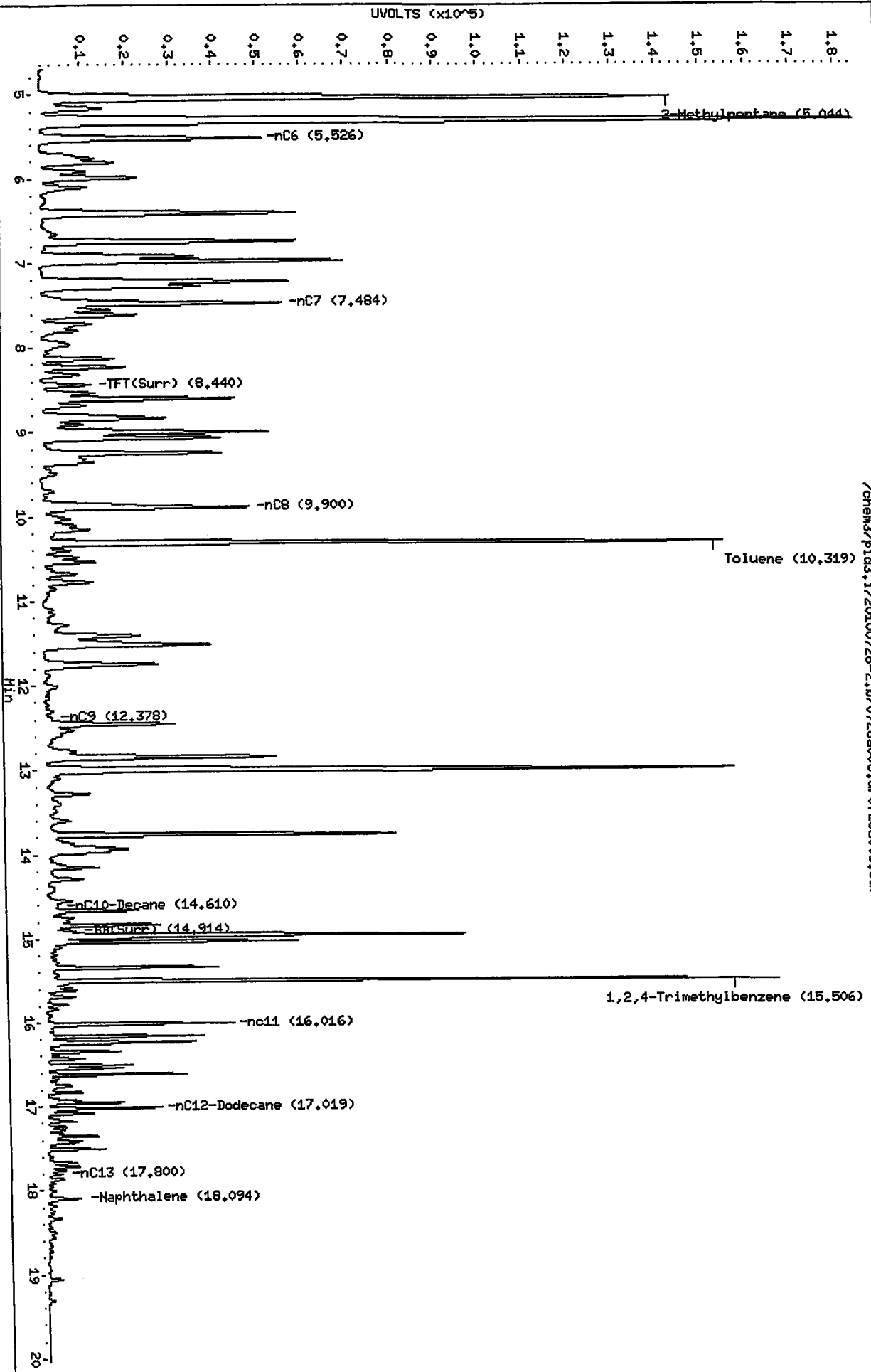
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100728-2.b/0728a008.d
Date: 28-JUL-2010 09:45
Client ID:
Sample Info: GAS 20

Column phase: RTX 502-2 FID

/chem3/pid3.i/20100728-2.b/0728a008.d/0728a008.cdf

Instrument: pid3.i
Operator: MH
Column diameter: 0.18



Mt
7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100728-2.b/0728a010.d ARI ID: GAS ICV
Data file 2: /chem3/pid3.i/20100728-1.b/0728a010.d Client ID:
Method: /chem3/pid3.i/20100728-1.b/PIDB.m Injection Date: 28-JUL-2010 10:34
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.440	0.032	7179	85915	99.7	TFT(Surr)
14.911	0.023	4354	33856	101.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	2492293	3.011 M
8015B 2MP-TMB (4.92 to 15.58)	1664107	3736060	2.245 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	2858584	2.526 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	2556570	2.899 M

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.439	0.032	21749	98.9	TFT(Surr)
14.909	0.023	46674	102.4	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.715	0.029	38928	29.44	Benzene
10.309	0.037	288200	218.36	Toluene
12.842	0.037	55963	45.04	Ethylbenzene
12.983	0.041	219824	163.24	M/P-Xylene
13.757	0.033	89384	69.57	O-Xylene
5.294	0.007	2620	7.36	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100728-2.b/0728a010.d

Date: 28-JUL-2010 10:34

Client ID:

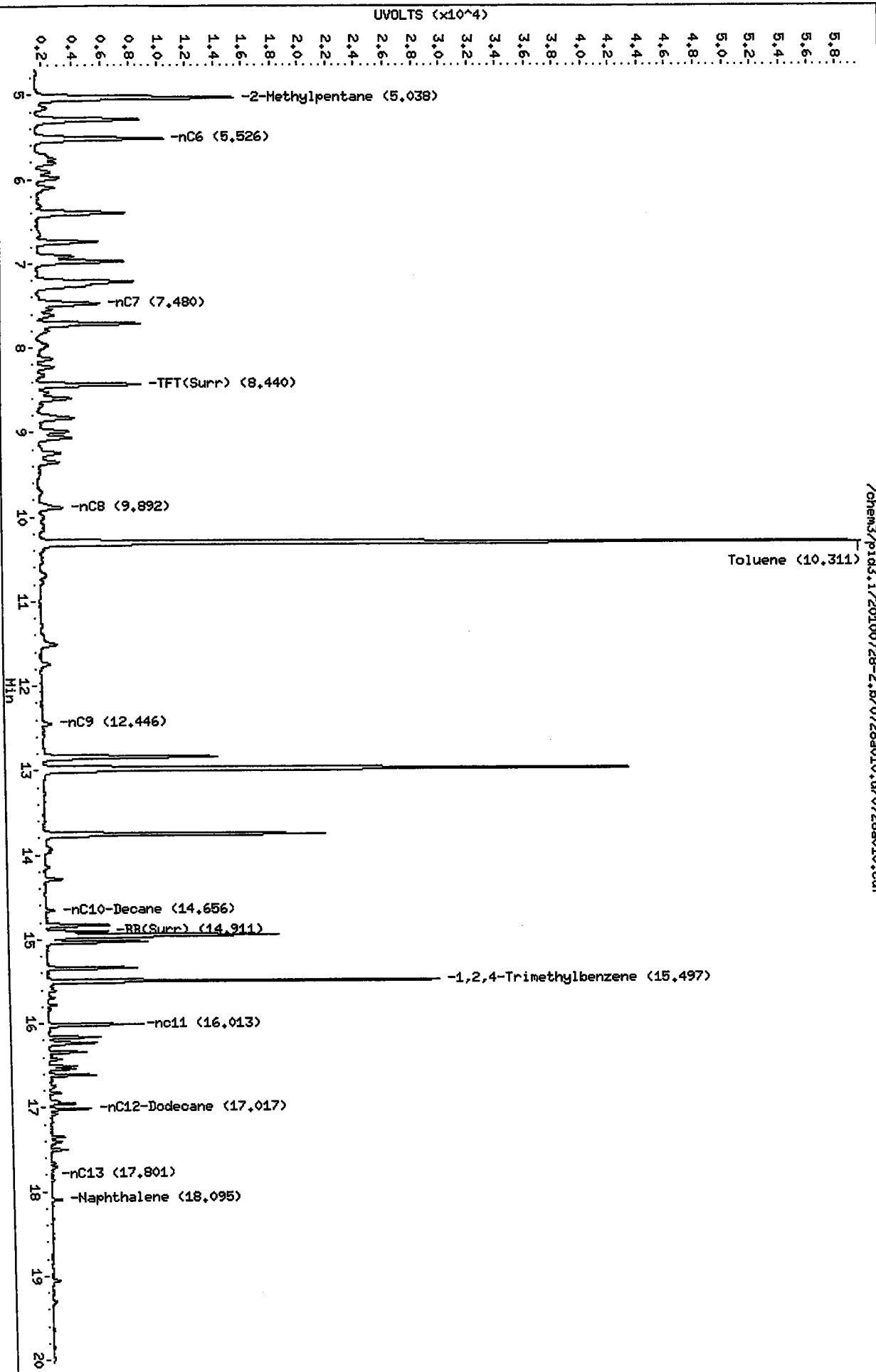
Sample Info: GAS ICV

Column phase: RTX 502-2 FID

Instrument: pid3.i

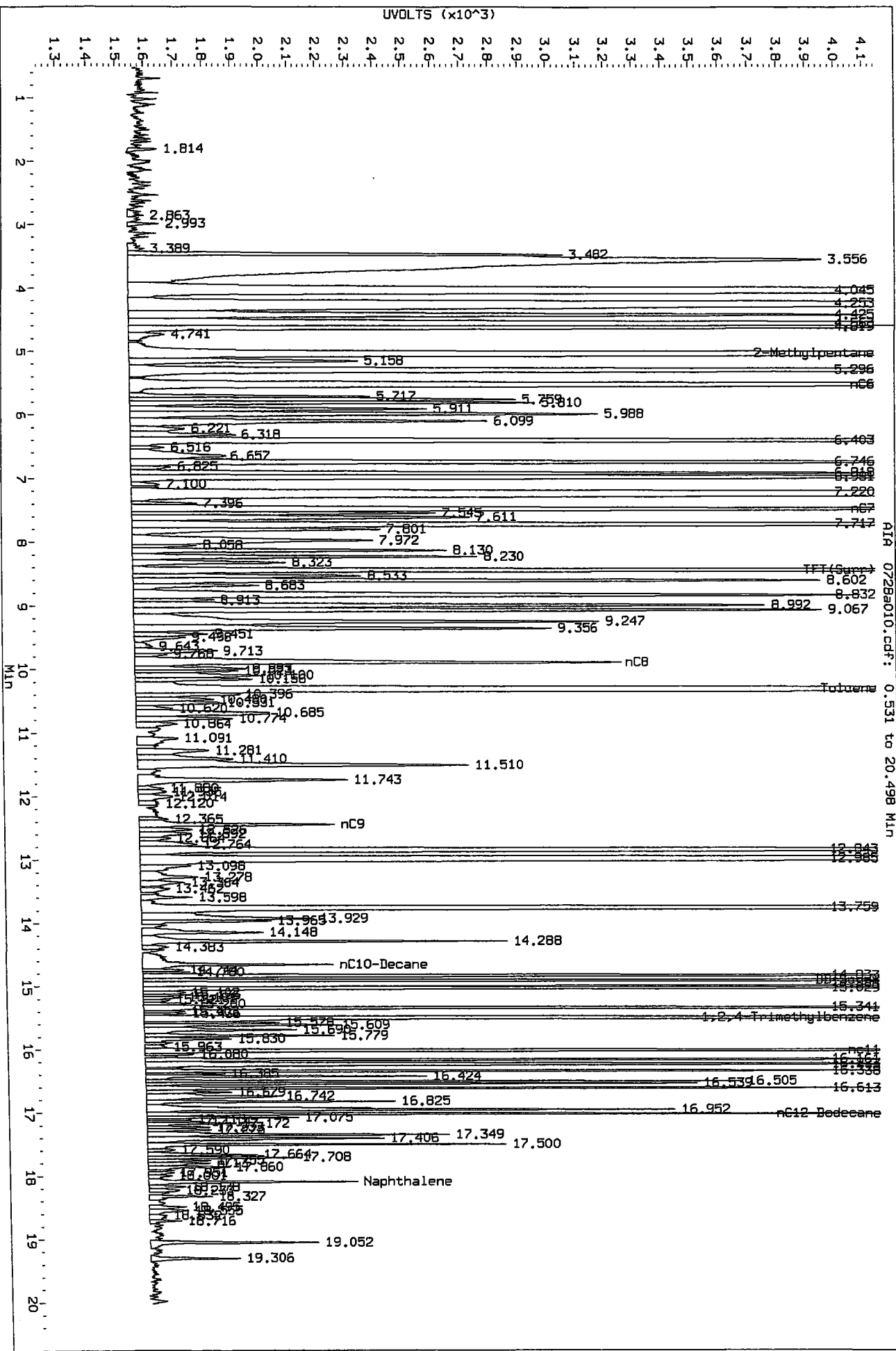
Operator: HH

Column diameter: 0.18



MH
7/19/10

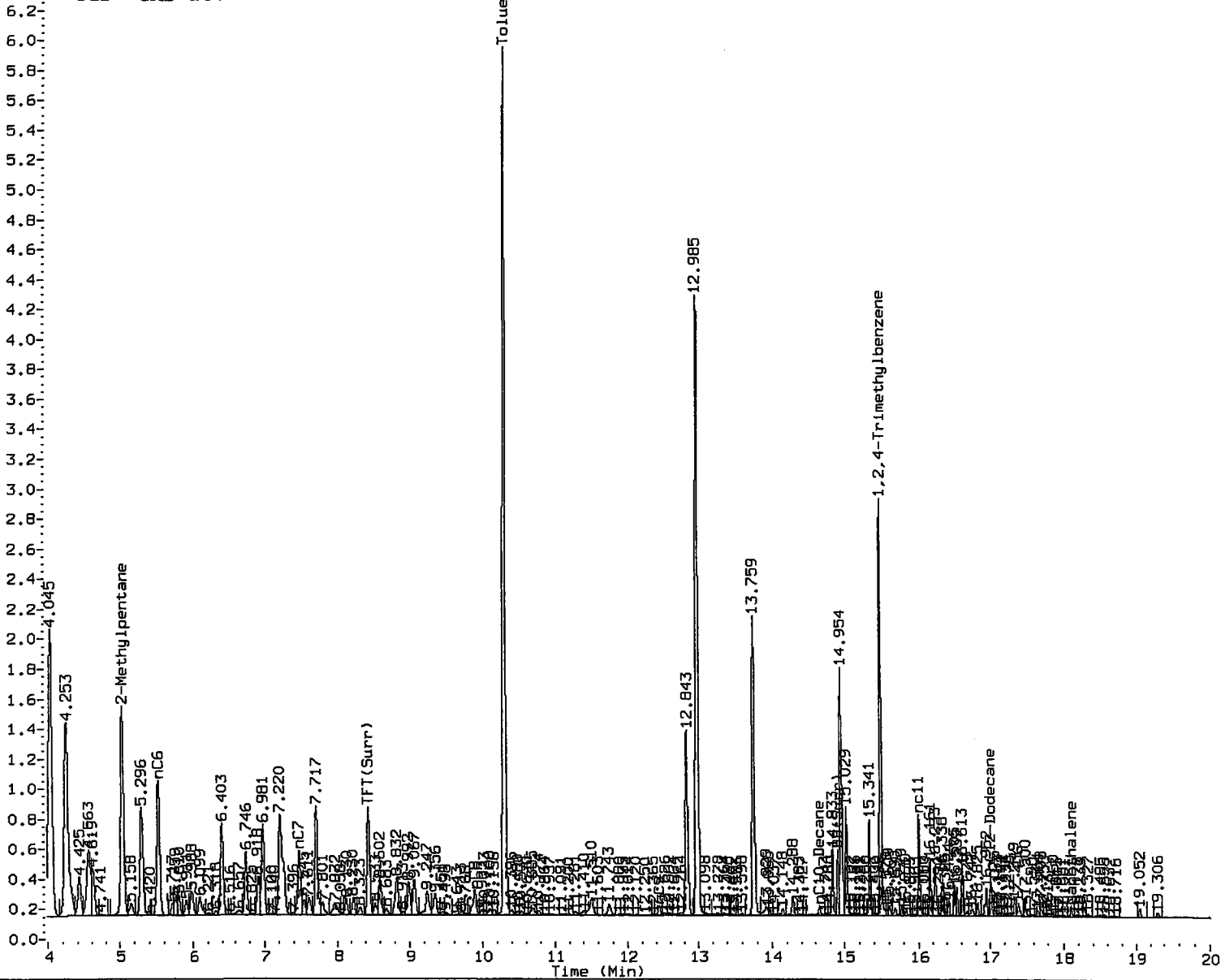
Data File: /chem3/pid3.1/20100728-2.b/0728a010.d/0728a010.cdf
Injection Date: 28-JUL-2010 10:34
Instrument: pid3.1
Client Sample ID:



AIA 0728a010.cdf: 0.531 to 20.498 MIN

FID GAS ICV

UVOLTS



MANUAL INTEGRATION

- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 7/29/10

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid3.i/20100728-2.b/FID.m
Batch File: /chem3/pid3.i/20100728-2.b
Inst ID: pid3.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EKPEC RT	RT WINDOW	AVG RT	STD DEV
1 2-Methylpentane	5.033	5.033	5.036	5.037	5.044	5.028	5.022	4.952-5.092	5.035	0.005
18 WAGAS	+++++	+++++	+++++	+++++	+++++	+++++	1.097	1.027-1.167	+++++	+++++
19 8015B	+++++	+++++	+++++	+++++	+++++	+++++	0.833	0.763-0.903	+++++	+++++
20 AX101	+++++	+++++	+++++	+++++	+++++	+++++	0.989	0.919-1.059	+++++	+++++
21 NWGAS	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.930-1.070	+++++	+++++
2 nC6	5.522	5.521	5.523	5.523	5.526	5.520	5.520	5.437-5.577	5.523	0.002
3 nC7	7.476	7.477	7.479	7.479	7.484	7.469	7.454	7.384-7.524	7.477	0.005
4 TPT (Surr)	8.435	8.437	8.439	8.440	8.440	8.425	8.408	8.338-8.478	8.436	0.006
5 nC8	9.887	9.889	9.891	9.893	9.900	9.874	9.858	9.788-9.928	9.889	0.009
6 Toluene	10.301	10.304	10.307	10.309	10.319	10.292	10.273	10.203-10.343	10.306	0.009
7 nC9	12.438	12.442	12.444	12.447	12.456	12.430	12.409	12.339-12.479	12.443	0.009
8 nC10-Decane	14.651	14.610	14.656	14.609	14.663	14.644	14.632	14.562-14.702	14.639	0.024
9 BB (Surr)	14.907	14.910	14.911	14.912	14.914	14.901	14.888	14.818-14.958	14.909	0.005
10 1,2,4-Trimethylbenzene	15.493	15.495	15.497	15.498	15.506	15.488	15.477	15.407-15.547	15.496	0.006
11 nC11	16.011	16.012	16.013	16.013	16.016	16.007	16.020	15.950-16.090	16.012	0.003
12 nC12-Dodecane	17.017	17.017	17.017	17.017	17.019	17.014	17.008	16.938-17.078	17.017	0.002
13 nC13	17.823	17.824	17.823	17.799	17.860	17.823	17.814	17.744-17.884	17.825	0.019

Reviewer 1 MH Date: 7/29/10
 Reviewer 2 [Signature] Date: 7/29/10

Report Date : 29-Jul-2010 06:41

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid3.i/20100728-2.b/FID.m
Batch File: /chem3/pid3.i/20100728-2.b
Inst ID: pid3.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
14 Naphthalene	18.093	18.094	18.093	18.093	18.094	18.089	18.082	18.012-18.152	18.093	0.002



VOA Analyst Notes / Corrective Action Log

ARI Project ID: BETX Curve Client ID: _____

ARI SOP: 404S(Gas) ~~410S(BTEX)~~ 430S(VPH) 700S(8260C) 703S(SIM) 706S(524.2) 710S(RSK-175)

Parameter(s): BETX

Instrument: NT-3 NT-5 NT-7 NT-9 NT-10 PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 5 Curve Date: 6/29/10 Analysis Start Date: 6/29/10

pH ≤ 2.0	YES / NO <u>NA</u>	Method Blank In Control?	<u>YES</u> / NO
BFB Tune Meets Criteria?	YES / NO <u>NA</u>	LCS / LCSD Recovery In Control?	<u>YES</u> / NO
Internal Standard Meets Criteria?	YES / NO <u>NA</u>	Surrogate Recovery In Control?	<u>YES</u> / NO
ICal acceptable?	<u>YES</u> / NO	CCal acceptable?	<u>YES</u> / NO
Q flag applied?	YES / NO <u>NA</u>	Q flag applied?	YES / NO <u>NA</u>
Manual Integrations for ICal?	YES / NO	Manual Integrations for Samples?	Yes / NO
Special Analysis Criteria Met?	YES / NO / NA		

Bubbles/Headspace: None SM (≤ 2mm ●) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

BETX low Targeted 25

Additional Details on Reverse: Yes / No

Analyst: [Signature] Date: 7/10/10

Reviewer: [Signature] Date: 7-10-10

Analytical Resources Inc.: Organics Instrument Log

PID-3 HP 5890 Series II - Serial No.: 2728A-13336

Date: 6/29/10 ^{MH 7/1/10} Analysis: NWTPH6/BETX Analyst: MH

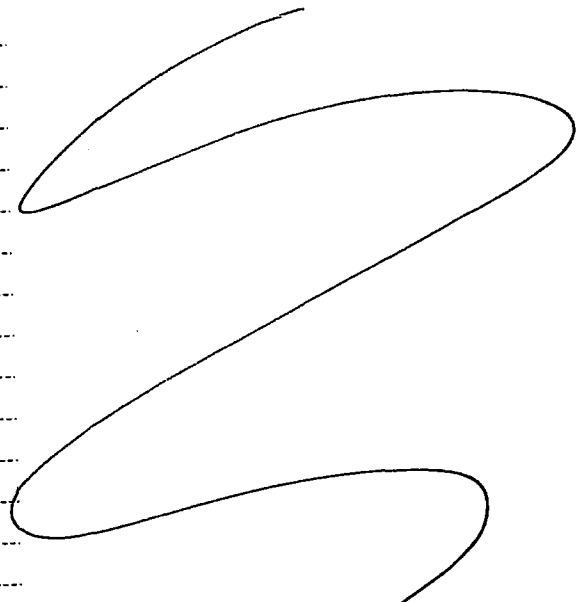
GC Program: BETX Column No: 832213 Column Type: RTX502-2

Instrument Tune (.U or .CT.): _____ EM Voltage: _____

Calibration File: _____ Curve Date: 2/2/10 6:5
6/29/10 BETX

IS/SS	Ical/Ccal	LCS/ICV
<u>VW632-2</u>	<u>VW607-1</u>	<u>VW629-4</u>
_____	<u>VW630-4</u>	_____
_____	<u>VW629-4</u>	_____
_____	_____	_____
_____	_____	_____

Time	Filename	LabID	ClientID	Vial#	pH	DF				
1	0548	0629a001.d	RINSE			1				
2	0613	0629a002.d	RT+BCAL 1			1				
3	0637	0629a003.d	GCAL 1			1				
4	0735	0629a004.d	RINSE			1				
5	0759	0629a005.d	BETX .25			1				
6	0824	0629a006.d	BETX .5			1				
7	0848	0629a007.d	BETX 5			1				
8	0912	0629a008.d	BETX 25			1				
9	0937	0629a009.d	BETX 50			1				
10	1001	0629a010.d	BETX 100			1				
11	1026	0629a011.d	BETX 200			1				
12	1050	0629a012.d	BETX ICV			1				
13	1145	0629a013.d	GCAL 2			1				
14	1210	0629a014.d	LCS0629			1				
15	1234	0629a015.d	LCSD0629			1				
16	1259	0629a016.d	MB0629			1				
17	1344	0629a017.d	RC18B	Trip Blank		2	1			
18	1408	0629a018.d	RC18A	Sample 1		2	1			
19	1433	0629a019.d	RB54D	92-85		8	1			
20	1458	0629a020.d	RB54E	92-95		4	1			
21	1522	0629a021.d	RB54F	92-105		4	1			
22	1547	0629a022.d	RB54G	51-2		3	1			



MH
7/1/10

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/pid3.i/20100629-1.1.b

ARI Job No.: BETX Method: PIDB.m Instrument: pid3.i Date: 29-JUN-2010

Time Filename LabID ClientID DF Manually Integrated Compounds

0759 0629a005.d BETX .25 1 Toluene, Ethylbenzene, O-Xylene, MTBE, TBT(Surr), BB(Surr),

0824 0629a006.d BETX .5 1 Toluene, O-Xylene, MTBE,

0848 0629a007.d BETX 5 1 NO MANUAL INTEGRATION

0912 0629a008.d BETX 25 1 NO MANUAL INTEGRATION

0937 0629a009.d BETX 50 1 NO MANUAL INTEGRATION

1001 0629a010.d BETX 100 1 NO MANUAL INTEGRATION

1026 0629a011.d BETX 200 1 NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/pid3.i/20100629-2.b

ARI Job No.: BETX Method: FID.m Instrument: pid3.i Date: 29-JUN-2010

Time Filename LabID ClientId DF Manually Integrated Compounds

0759 0629a005.d BETX .25 1 NO MANUAL INTEGRATION

0824 0629a006.d BETX .5 1 NO MANUAL INTEGRATION

0848 0629a007.d BETX 5 1 NO MANUAL INTEGRATION

0912 0629a008.d BETX 25 1 NO MANUAL INTEGRATION

0937 0629a009.d BETX 50 1 NO MANUAL INTEGRATION

1001 0629a010.d BETX 100 1 NO MANUAL INTEGRATION

1026 0629a011.d BETX 200 1 NO MANUAL INTEGRATION

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-JUN-2010 07:59
 End Cal Date : 29-JUN-2010 10:26
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem3/pid3.i/20100629-1.b/PIDB.m
 Cal Date : 29-Jun-2010 11:12 monicah
 Curve Type : Average

Calibration File Names:

Level 1: /chem3/pid3.i/20100629-1.b/0629a005.d/0629a005.cdf
 Level 2: /chem3/pid3.i/20100629-1.b/0629a006.d/0629a006.cdf
 Level 3: /chem3/pid3.i/20100629-1.b/0629a007.d
 Level 4: /chem3/pid3.i/20100629-1.b/0629a008.d
 Level 5: /chem3/pid3.i/20100629-1.b/0629a009.d
 Level 6: /chem3/pid3.i/20100629-1.b/0629a010.d
 Level 7: /chem3/pid3.i/20100629-1.b/0629a011.d

Compound	0.25000	0.50000	5.000	25.000	50.000	100.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	200.000							
	Level 7							
1 MTBE	464 343	288	367	346	348	334	356	15.046
2 Benzene	1564 1254	1462	1257	1240	1256	1221	1322	10.156
4 Toluene	1608 1294	1252	1288	1275	1275	1247	1320	9.717
15 Chlorobenzene	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <
5 Ethylbenzene	1404 1183	1420	1164	1185	1190	1152	1243	9.380
6 M/P-Xylene	1614 1268	1381	1314	1300	1302	1247	1347	9.293

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-JUN-2010 07:59
 End Cal Date : 29-JUN-2010 10:26
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem3/pid3.i/20100629-1.b/PIDB.m
 Cal Date : 29-Jun-2010 11:12 monicah
 Curve Type : Average

Compound	0.25000	0.50000	5.000	25.000	50.000	100.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	200.000							
	Level 7							
7 O-Xylene	1352 1307	1232	1295	1269	1282	1256	1285	3.016
13 1,3,5 Trimethylbenzene	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
14 1,2,4 Trimethyl benzene	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
16 1,3 Dichlorobenzene	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
17 1,4 Dichlorobenzene	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
18 1,2 Dichlorobenzene	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
\$ 3 TFT(Surr)	243 219	220	213	214	217	212	220	4.943
\$ 8 BB(Surr)	496 463	451	434	440	456	450	456	4.411

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-JUN-2010 07:59
 End Cal Date : 29-JUN-2010 10:26
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem3/pid3.i/20100629-2.b/FID.m
 Cal Date : 29-Jun-2010 11:13 monicah
 Curve Type : Average

Compound	0.000e+00						RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	0.000e+00							
	Level 7							
14 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	+++++						+++++	+++++
\$ 4 TFT(Surr)	78.13636	73.54545	71.97015	70.36000	70.48120	69.03933		
	70.30000						71.97607	4.271
\$ 9 BB(Surr)	48.72727	43.22727	42.49254	41.18000	42.06767	41.53933		
	42.23000						43.06630	5.994

7/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100629-2.b/0629a005.d ARI ID: BETX .25
Data file 2: /chem3/pid3.i/20100629-1.b/0629a005.d Client ID:
Method: /chem3/pid3.i/20100629-1.b/PIDB.m Injection Date: 29-JUN-2010 07:59
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 02-FEB-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	-----	-----
8.418	-0.021	1719	20323	23.9	TFT(Surr)
14.897	-0.015	1072	10075	24.9	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
-----	-----	-----
WAGas Tol-C12 (10.21 to 17.13)	23668	0.034
8015B 2MP-TMB (4.93 to 15.54)	22061	0.016
AK101 nC6-nC10 (5.50 to 14.63)	15306	0.014
NWTPHG Tol-Nap (10.21 to 18.23)	24708	0.033

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	-----	-----
8.417	-0.021	5356	24.4	TFT(Surr)
14.893	-0.016	10910	23.9	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
7.694	-0.019	391	0.30	Benzene
10.287	-0.021	402	0.30N	Toluene
12.817	-0.030	351	0.28N	Ethylbenzene
12.955	-0.034	807	0.60	M/P-Xylene
13.737	-0.025	338	0.26N	O-Xylene
5.283	-0.017	116	0.33N	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100629-2.b/0629a005.d

Date: 29-JUN-2010 07:59

Client ID:

Sample Info: BETX .25

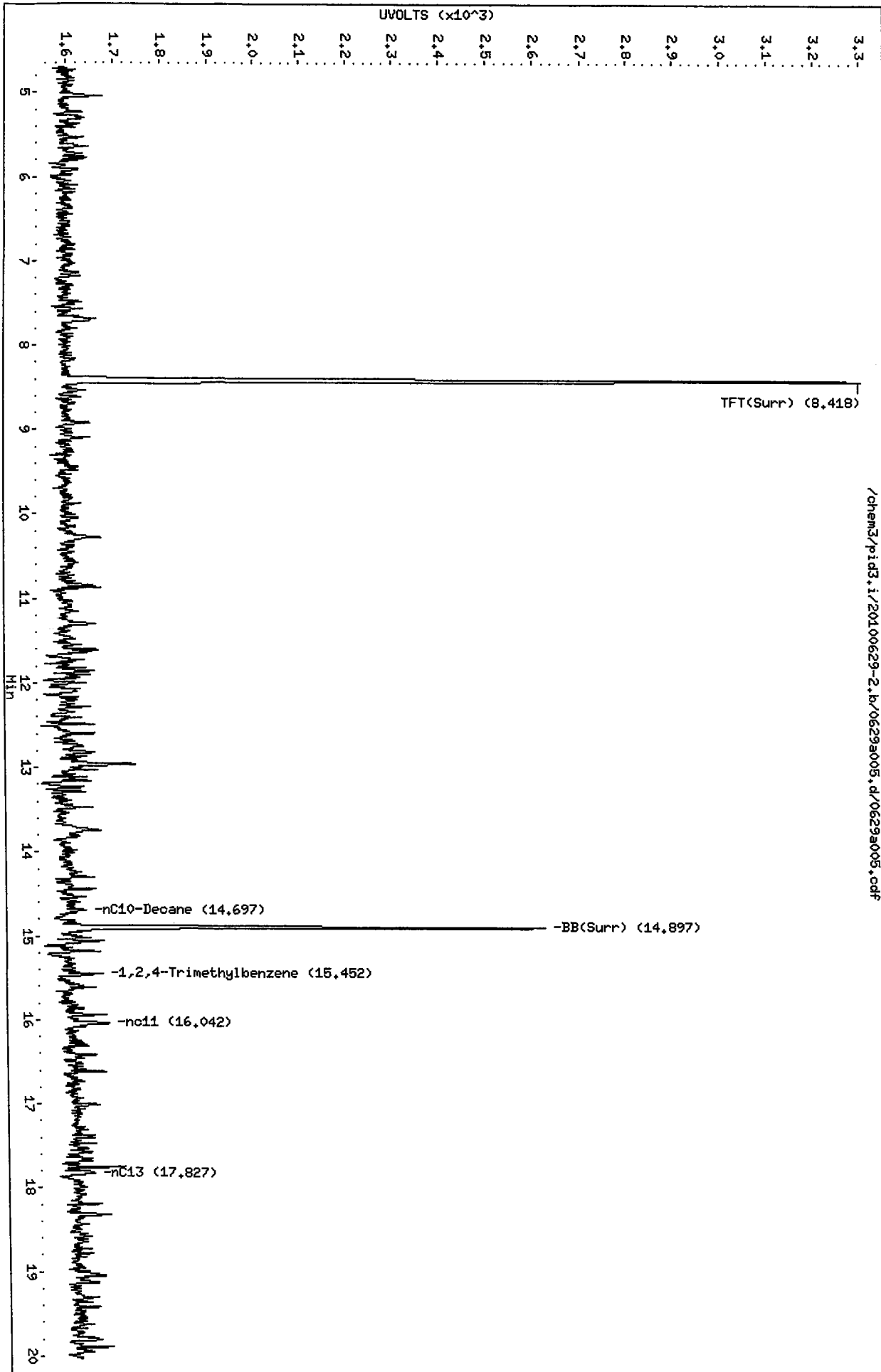
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

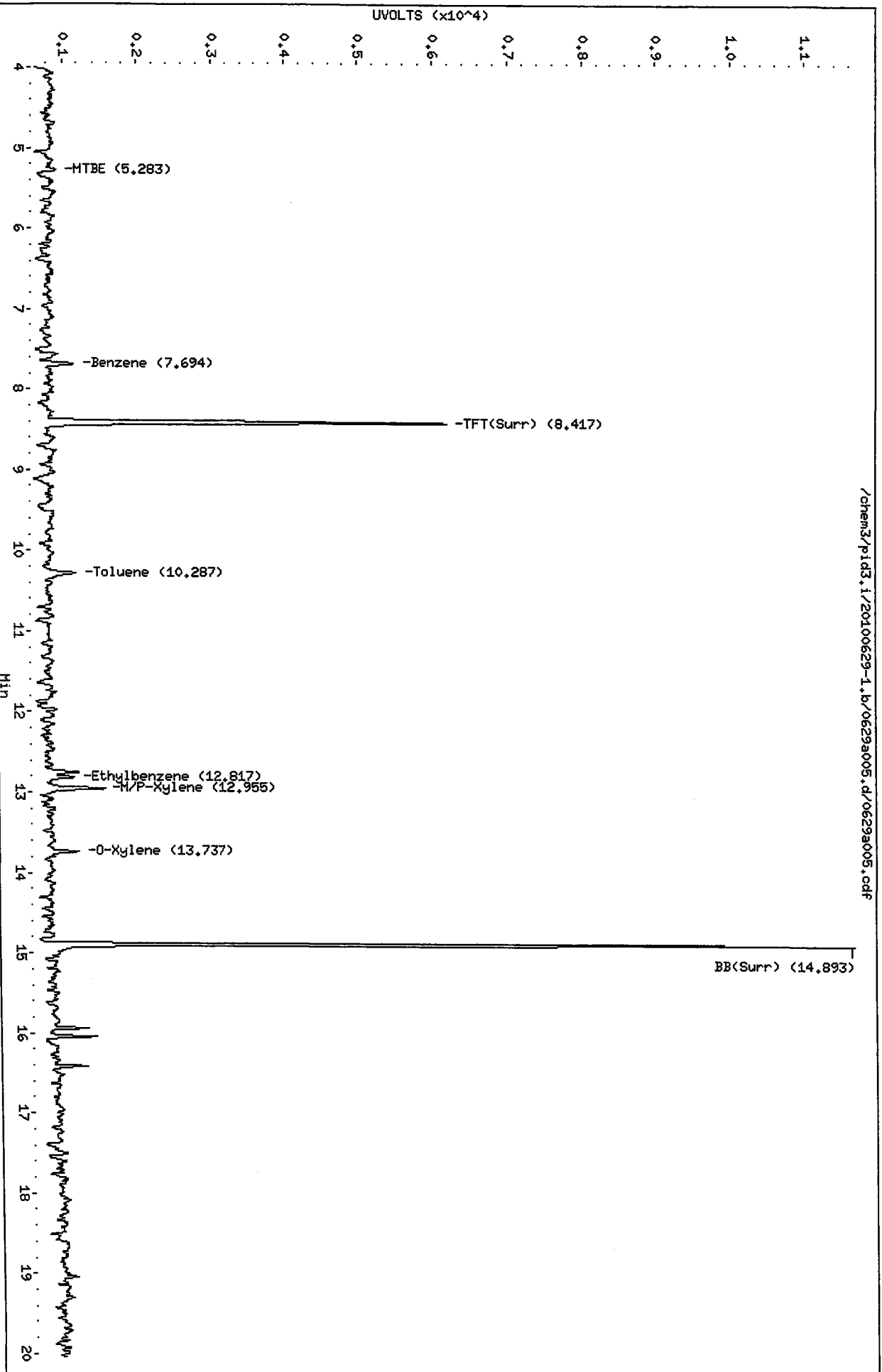
Page 1



RG50 : 01148

Data File: /chem3/pid3.i/20100629-1.b/0629a005.d
Date: 29-JUN-2010 07:59
Client ID:
Sample Info: BETX .25
Column phase: RTX 502-2 PID

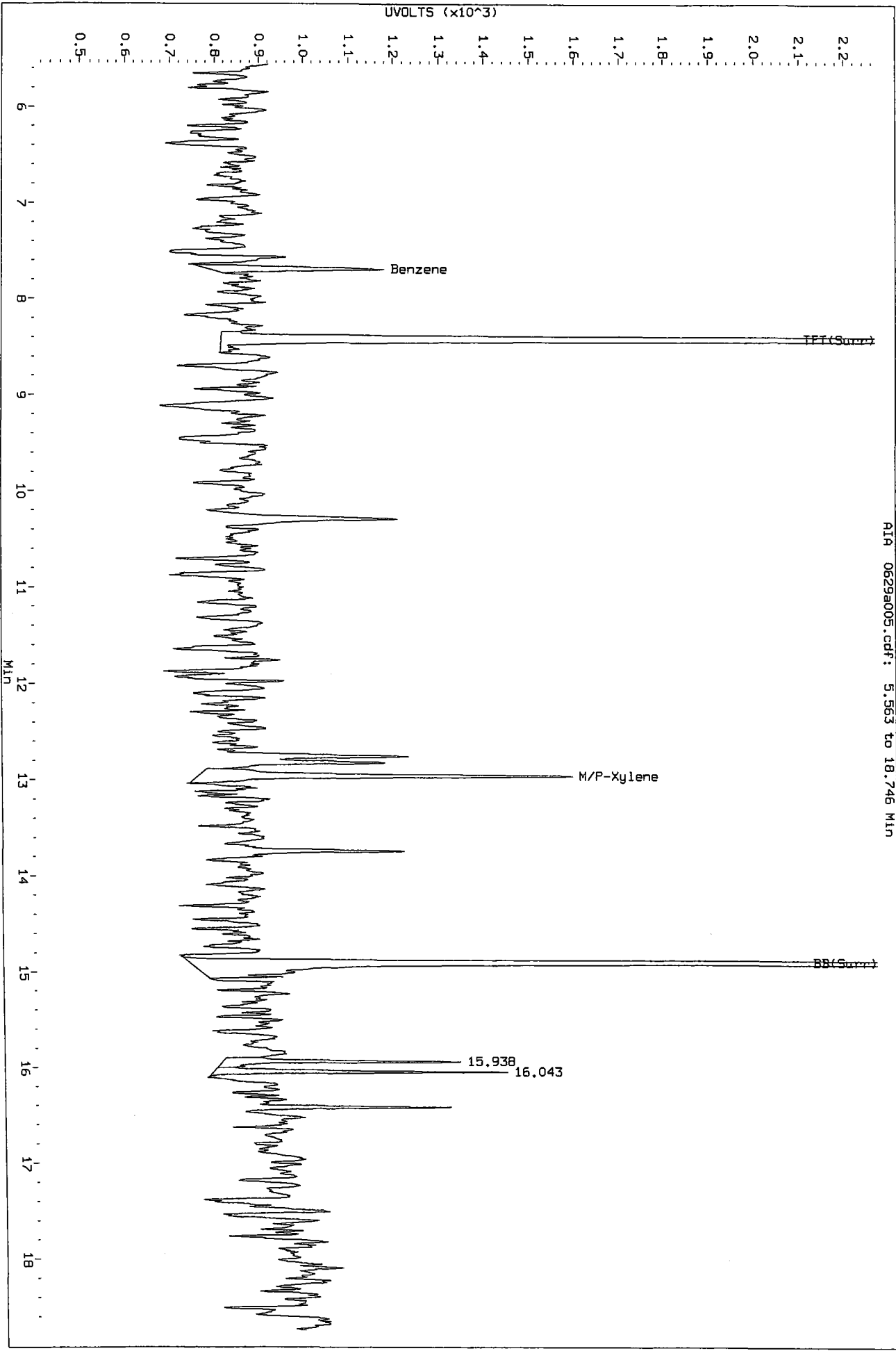
Instrument: pid3.i
Operator: MH
Column diameter: 0.18



/chem3/pid3.i/20100629-1.b/0629a005.d/0629a005.cdf

MM
7/10/09

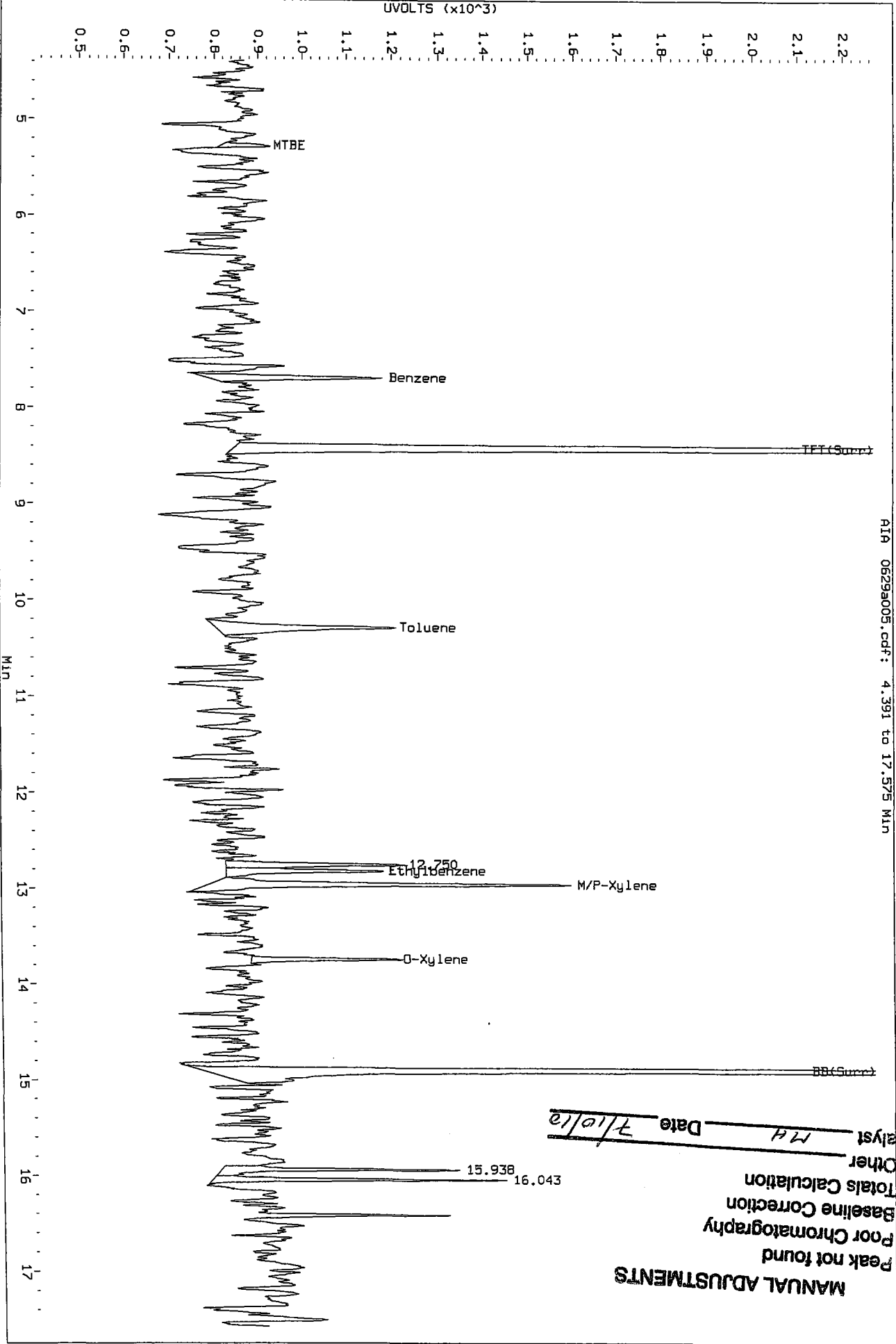
Data File: /chem3/pid3.1/20100629-1.b/0629a005.d/0629a005.cdf
Injection Date: 29-JUN-2010 07:59
Instrument: pid3.1
Client Sample ID:



A1A 0629a005.cdf: 5.563 to 18.746 MIN

Data File: /chem3/pid3.1/20100629-1.b/0629a005.d/0629a005.cdf
Injection Date: 29-JUN-2010 07:59
Instrument: pid3.1
Client Sample ID:

AIN 0629a005.cdf: 4.391 to 17.575 Min



MANUAL ADJUSTMENTS
1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other
Analyst: MH
Date: 7/10/10

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11/01/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100629-2.b/0629a006.d ARI ID: BETX .5
Data file 2: /chem3/pid3.i/20100629-1.b/0629a006.d Client ID:
Method: /chem3/pid3.i/20100629-1.b/PIDB.m Injection Date: 29-JUN-2010 08:24
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 02-FEB-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.430	-0.008	3236	38151	45.0	TFT(Surr)
14.906	-0.006	1902	15702	44.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas Tol-C12 (10.21 to 17.13)	29425	0.042
8015B 2MP-TMB (4.93 to 15.54)	33980	0.025
AK101 nC6-nC10 (5.50 to 14.63)	33979	0.031
NWTPHG Tol-Nap (10.21 to 18.23)	34396	0.046

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.429	-0.008	9683	44.0	TFT(Surr)
14.904	-0.006	19865	43.6	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.706	-0.007	731	0.55	Benzene
10.297	-0.011	626	0.47N	Toluene
12.832	-0.015	710	0.57	Ethylbenzene
12.969	-0.020	1381	1.03	M/P-Xylene
13.750	-0.012	616	0.48N	O-Xylene
5.300	-0.001	144	0.40N	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/p1a3.i/20100629-2.b/0629a006.d

Date: 29-JUN-2010 08:24

Client ID:

Sample Info: BETX .5

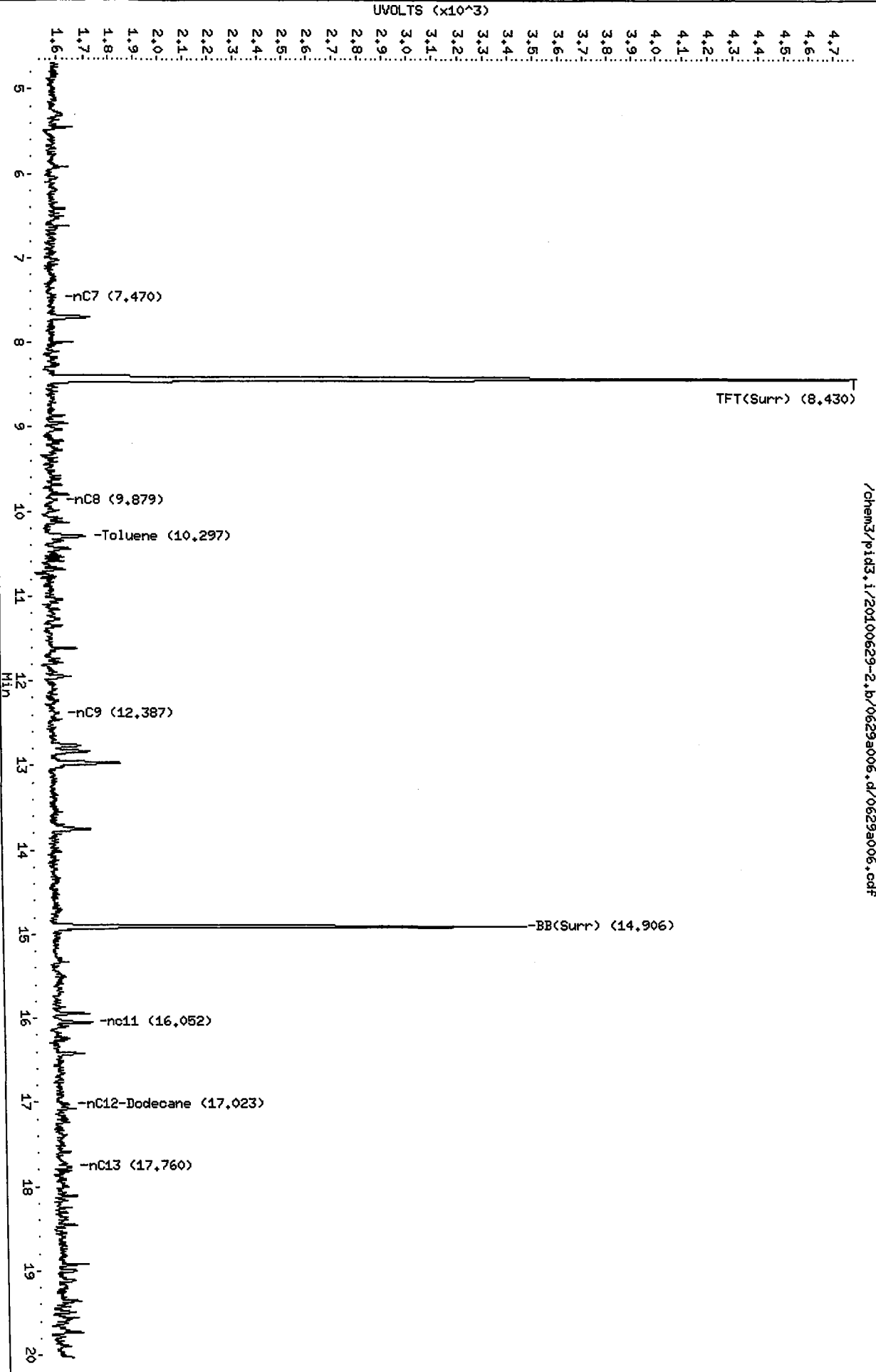
Column phase: RTX 502-2 FID

Instrument: p1a3.i

Operator: MH

Column diameter: 0.18

/chem3/p1a3.i/20100629-2.b/0629a006.d/0629a006.cdf



Data File: /chem3/pid3.i/20100629-1.b/0629a006.d

Date: 29-JUN-2010 08:24

Client ID:

Sample Info: BETX .5

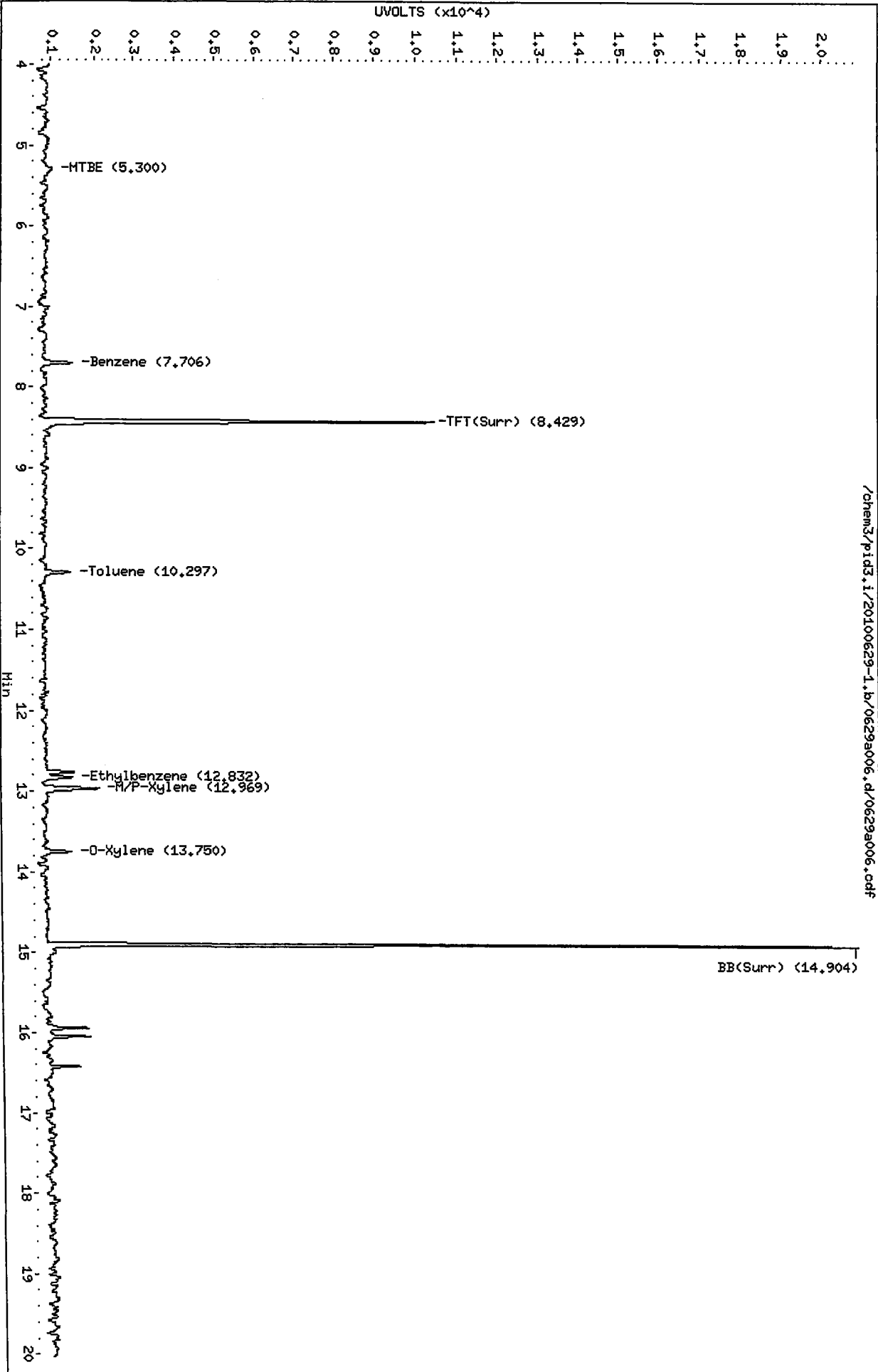
Instrument: pid3.i

Operator: HH

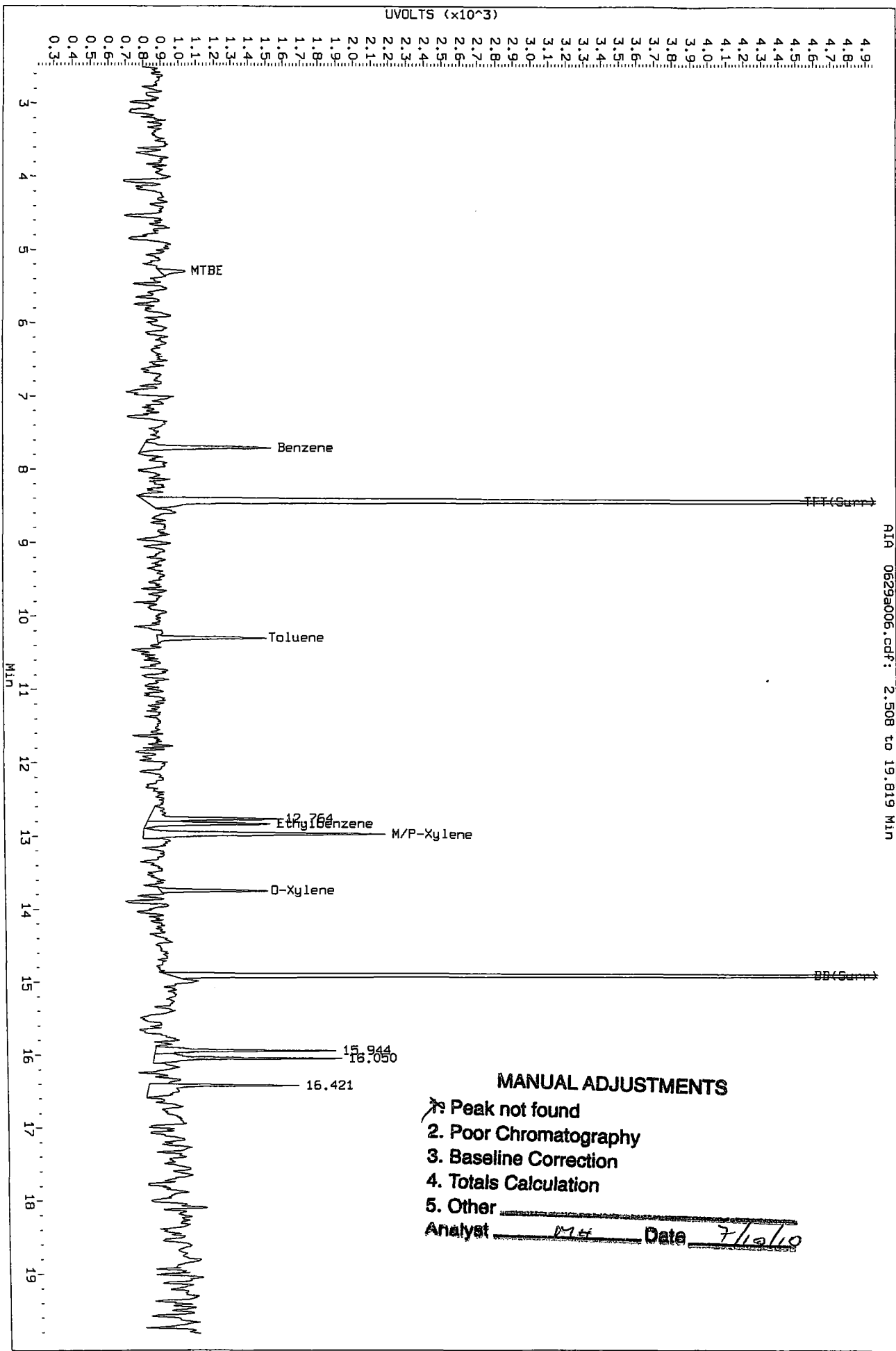
Column diameter: 0.18

Column phase: RTX 502-2 PID

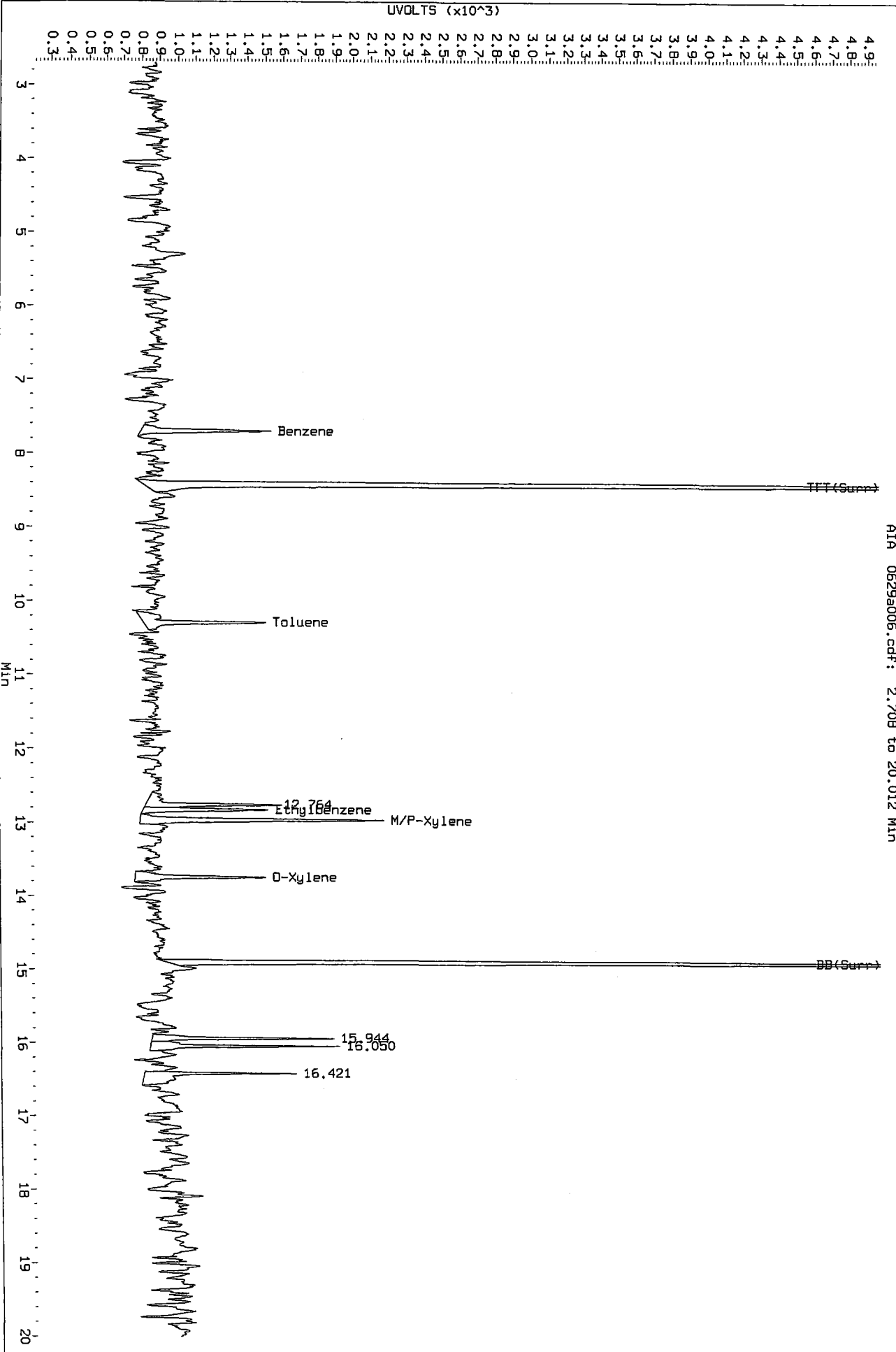
/chem3/pid3.i/20100629-1.b/0629a006.d/0629a006.cdf



Data File: /chem3/pid3.1/20100629-1.b/0629a006.d/0629a006.cdf
 Injection Date: 29-JUN-2010 08:24
 Instrument: pid3.1
 Client Sample ID:



MT
K/10/10
Data File: /chem3/pid3.1/20100629-1.b/0629a006.d/0629a006.cdf
Injection Date: 29-JUN-2010 08:24
Instrument: pid3.1
Client Sample ID:



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7/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100629-2.b/0629a007.d ARI ID: BETX 5
Data file 2: /chem3/pid3.i/20100629-1.b/0629a007.d Client ID:
Method: /chem3/pid3.i/20100629-1.b/PIDB.m Injection Date: 29-JUN-2010 08:48
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 02-FEB-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.435	-0.003	4822	56817	67.0	TFT(Surr)
14.908	-0.003	2847	24157	66.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas Tol-C12 (10.21 to 17.13)	137046	0.197
8015B 2MP-TMB (4.93 to 15.54)	118984	0.088
AK101 nC6-nC10 (5.50 to 14.63)	107982	0.100
NWTPHG Tol-Nap (10.21 to 18.23)	152307	0.206

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.434	-0.003	14296	65.0	TFT(Surr)
14.907	-0.003	29105	63.8	BB(Surr)

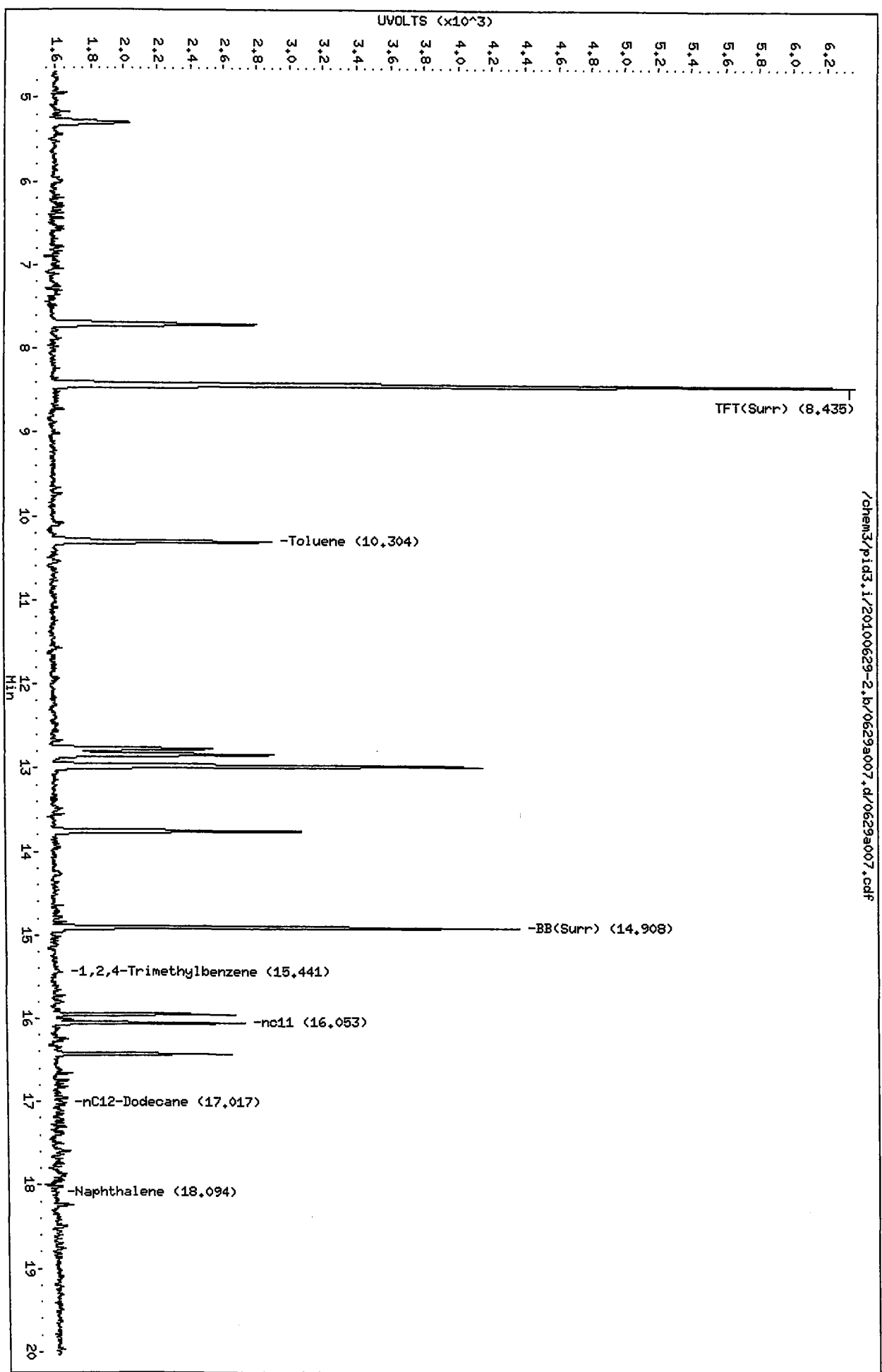
SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.709	-0.004	6287	4.76	Benzene
10.302	-0.006	6442	4.88	Toluene
12.837	-0.010	5819	4.68	Ethylbenzene
12.974	-0.015	13142	9.76	M/P-Xylene
13.753	-0.009	6477	5.04	O-Xylene
5.297	-0.003	1833	5.15	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100629-2.b/0629a007.d
Date : 29-JUN-2010 08:48
Client ID:
Sample Info: BETX 5
Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: MH
Column diameter: 0.18



/chem3/pid3.i/20100629-2.b/0629a007.d/0629a007.cdf

Data File: /chem3/pid3.i/20100629-1.b/0629a007.d

Date: 29-JUN-2010 08:48

Client ID:

Sample Info: BETX 5

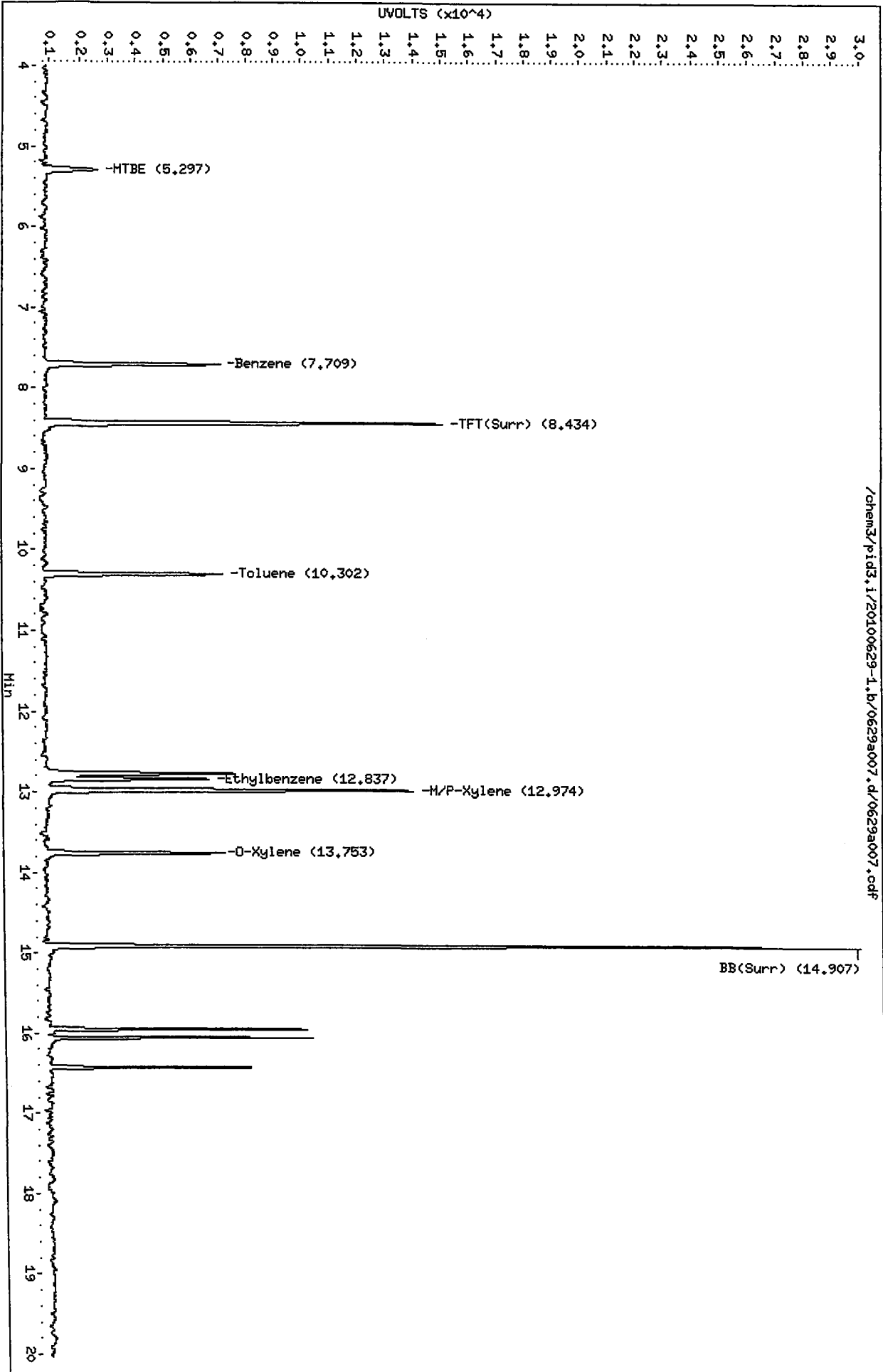
Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

/chem3/pid3.i/20100629-1.b/0629a007.d/0629a007.cdf



7/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100629-2.b/0629a008.d ARI ID: BETX 25
Data file 2: /chem3/pid3.i/20100629-1.b/0629a008.d Client ID:
Method: /chem3/pid3.i/20100629-1.b/PIDB.m Injection Date: 29-JUN-2010 09:12
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 02-FEB-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.439	0.000	7036	82252	97.8	TFT(Surr)
14.911	-0.001	4118	35649	95.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas Tol-C12 (10.21 to 17.13)	554289	0.797
8015B 2MP-TMB (4.93 to 15.54)	539482	0.398
AK101 nC6-nC10 (5.50 to 14.63)	505710	0.468
NWTPHG Tol-Nap (10.21 to 18.23)	562868	0.760

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.436	-0.001	21401	97.4	TFT(Surr)
14.908	-0.002	44020	96.6	BB(Surr)

SW8021 (PID)

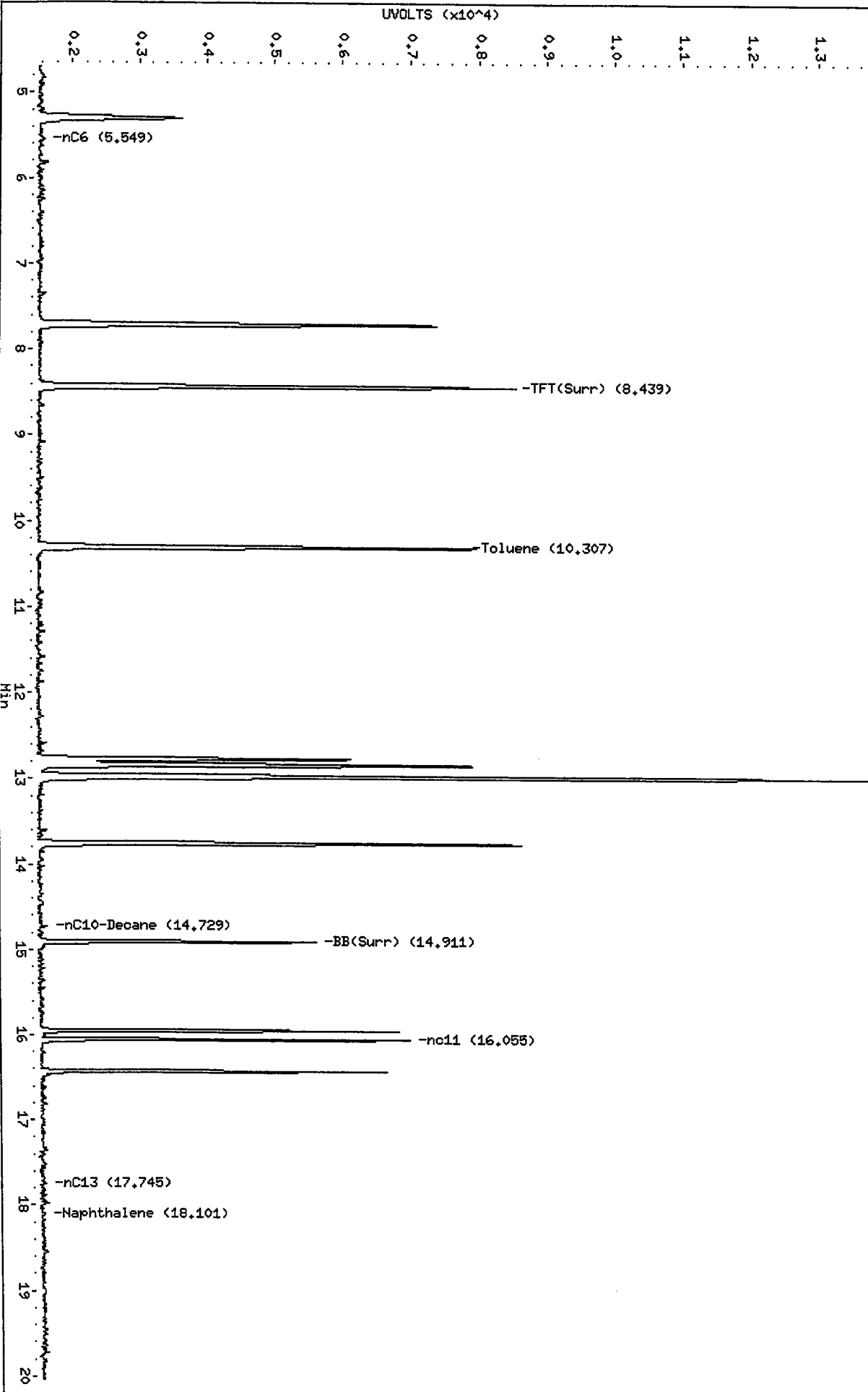
RT	Shift	Response	Amount	Compound
7.712	-0.001	31003	23.45	Benzene
10.304	-0.004	31867	24.14	Toluene
12.840	-0.007	29632	23.85	Ethylbenzene
12.977	-0.012	65022	48.28	M/P-Xylene
13.755	-0.007	31715	24.68	O-Xylene
5.300	-0.001	8658	24.33	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100629-2.b/0629a008.d
Date: 29-JUN-2010 09:12
Client ID:
Sample Info: BETX 25
Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: MH
Column diameter: 0.18

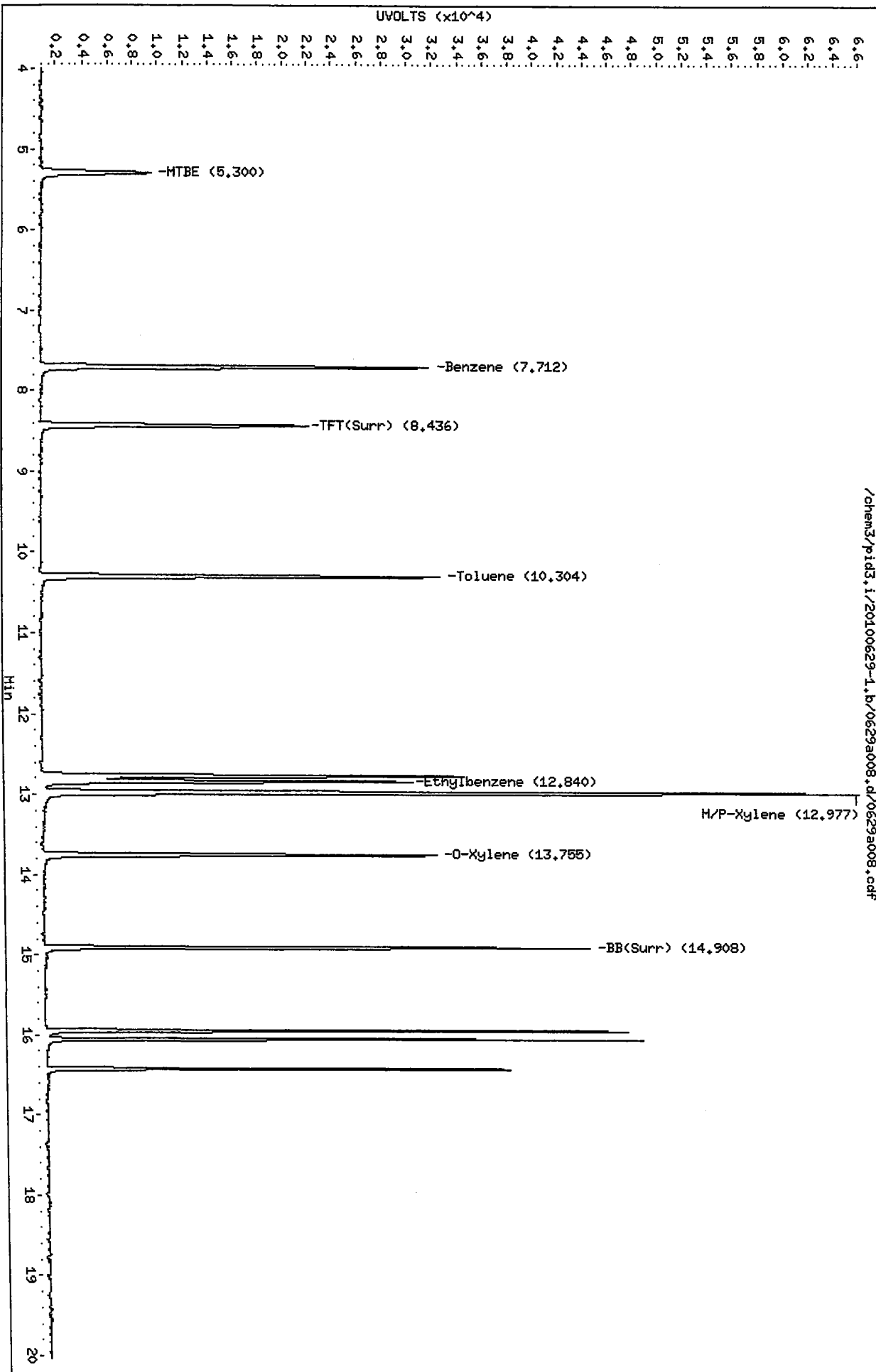
/chem3/pid3.i/20100629-2.b/0629a008.d/0629a008.cdf



Data File: /chem3/p1d3.i/20100629-1.b/06293008.d
Date : 29-JUN-2010 09:12
Client ID:
Sample Info: BETX 25

Column phase: RTX 502-2 PID

Instrument: p1d3.i
Operator: MH
Column diameter: 0.18



/chem3/p1d3.i/20100629-1.b/06293008.d/06293008.cdf

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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100629-2.b/0629a009.d ARI ID: BETX 50
Data file 2: /chem3/pid3.i/20100629-1.b/0629a009.d Client ID:
Method: /chem3/pid3.i/20100629-1.b/PIDB.m Injection Date: 29-JUN-2010 09:37
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 02-FEB-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	----	----	-----
8.438	-0.001	9374	110805	130.2	TFT(Surr)
14.911	-0.001	5595	46087	129.9	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
-----	-----	-----
WAGas Tol-C12 (10.21 to 17.13)	1045595	1.504
8015B 2MP-TMB (4.93 to 15.54)	1041320	0.768
AK101 nC6-nC10 (5.50 to 14.63)	978534	0.906
NWTPHG Tol-Nap (10.21 to 18.23)	1053990	1.423

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
8.436	-0.001	28902	131.5	TFT(Surr)
14.909	-0.001	60660	133.1	BB(Surr)

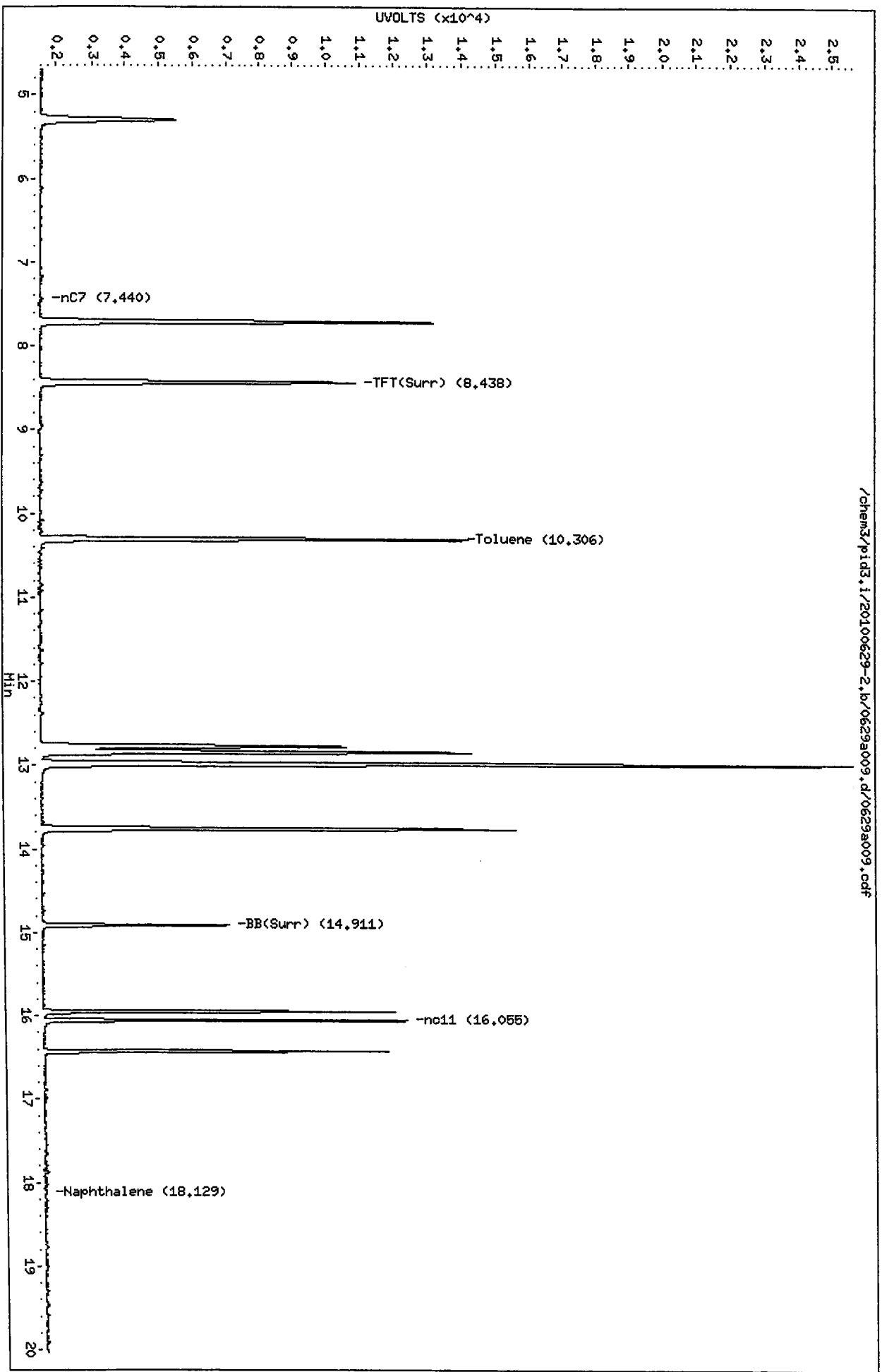
SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.711	-0.002	62822	47.52	Benzene
10.305	-0.003	63750	48.30	Toluene
12.841	-0.006	59507	47.89	Ethylbenzene
12.979	-0.010	130181	96.67	M/P-Xylene
13.757	-0.005	64099	49.89	O-Xylene
5.298	-0.003	17422	48.97	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3,i/20100629-2.b/0629a009.d
Date: 29-JUN-2010 09:37
Client ID:
Sample Info: BETX 50
Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: MH
Column diameter: 0.18



/chem3/pid3,i/20100629-2.b/0629a009.d/0629a009.cdf

Data File: /chem3/pid3.i/20100629-1.b/0629a009.d
Date : 29-JUN-2010 09:37

Client ID:

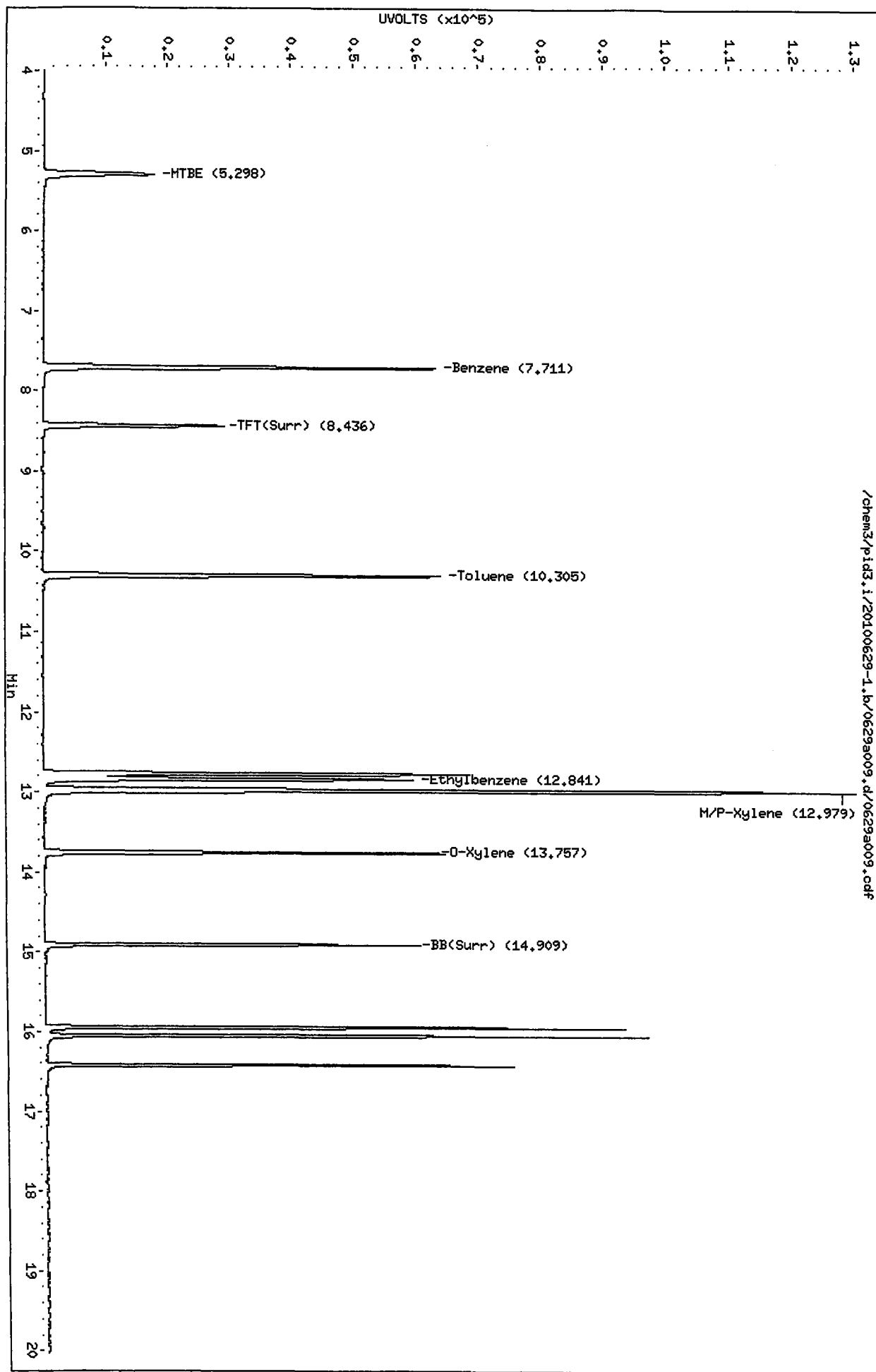
Sample Info: BETX 50

Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18



7/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100629-2.b/0629a010.d
Data file 2: /chem3/pid3.i/20100629-1.b/0629a010.d
Method: /chem3/pid3.i/20100629-1.b/PIDB.m
Instrument: pid3.i
Gas Ical Date: 02-FEB-2010
BETX Ical Date: 29-JUN-2010

ARI ID: BETX 100
Client ID:
Injection Date: 29-JUN-2010 10:01
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.440	0.001	12289	144775	170.7	TFT(Surr)
14.912	0.001	7394	58577	171.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas Tol-C12 (10.21 to 17.13)	2011481	2.893
8015B 2MP-TMB (4.93 to 15.54)	1982095	1.462
AK101 nC6-nC10 (5.50 to 14.63)	1860428	1.722
NWTPHG Tol-Nap (10.21 to 18.23)	2014004	2.719

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.438	0.001	37664	171.3	TFT(Surr)
14.910	0.001	80033	175.6	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.714	0.001	122057	92.32	Benzene
10.307	-0.001	124686	94.47	Toluene
12.844	-0.003	115194	92.70	Ethylbenzene
12.984	-0.006	249433	185.23	M/P-Xylene
13.759	-0.003	125630	97.78	O-Xylene
5.302	0.001	33414	93.91	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100629-2.b/0629a010.d
Date : 29-JUN-2010 10:01

Client ID:
Sample Info: BETX 100

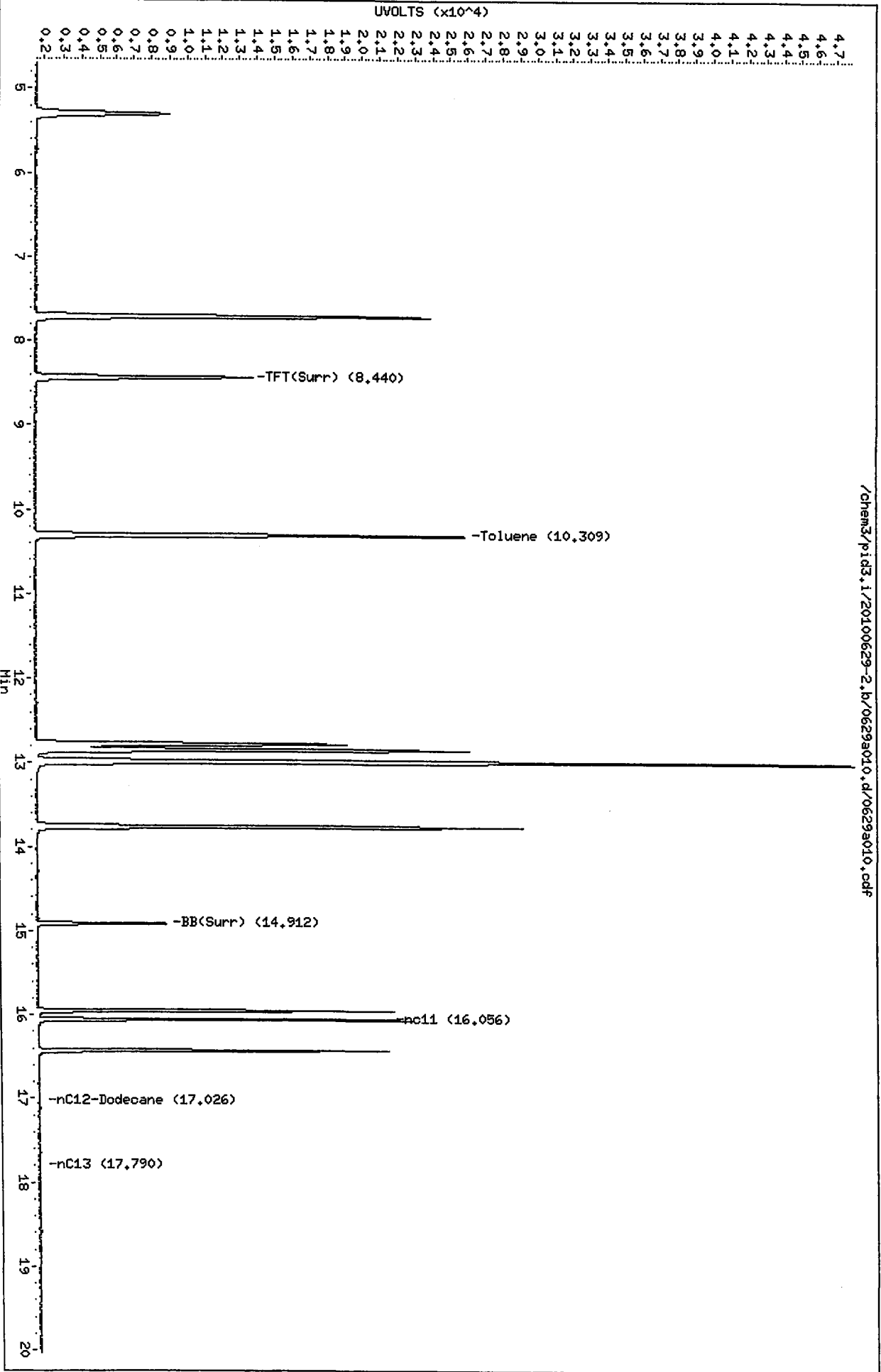
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HH

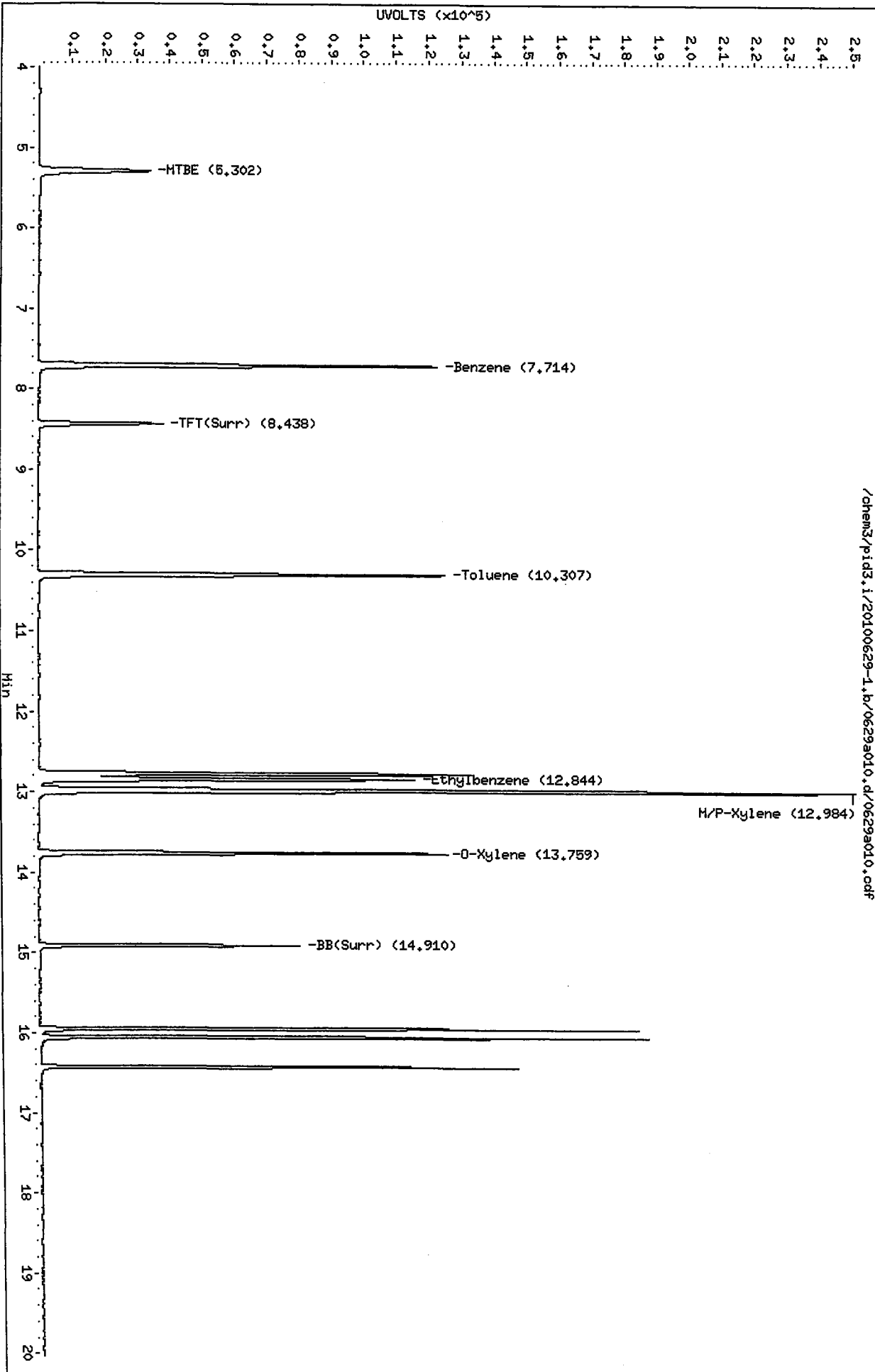
Column diameter: 0.18

/chem3/pid3.i/20100629-2.b/0629a010.d/0629a010.cdf



Data File: /chem3/pid3.i/20100629-1.b/0629a010.d
Date : 29-JUN-2010 10:01
Client ID:
Sample Info: BETX 100
Column phase: RTX 502-2 PID

Instrument: pid3.i
Operator: HH
Column diameter: 0.18



7/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100629-2.b/0629a011.d
Data file 2: /chem3/pid3.i/20100629-1.b/0629a011.d
Method: /chem3/pid3.i/20100629-1.b/PIDB.m
Instrument: pid3.i
Gas Ical Date: 02-FEB-2010
BETX Ical Date: 29-JUN-2010

ARI ID: BETX 200
Client ID:
Injection Date: 29-JUN-2010 10:26
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.439	0.000	14060	165027	195.3	TFT(Surr)
14.911	0.000	8446	67516	196.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas Tol-C12 (10.21 to 17.13)	4138650	5.951
8015B 2MP-TMB (4.93 to 15.54)	4088735	3.015
AK101 nC6-nC10 (5.50 to 14.63)	3833098	3.547
NWTPHG Tol-Nap (10.21 to 18.23)	4139793	5.588

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.437	0.000	43804	199.3	TFT(Surr)
14.910	0.000	92698	203.3	BB(Surr)

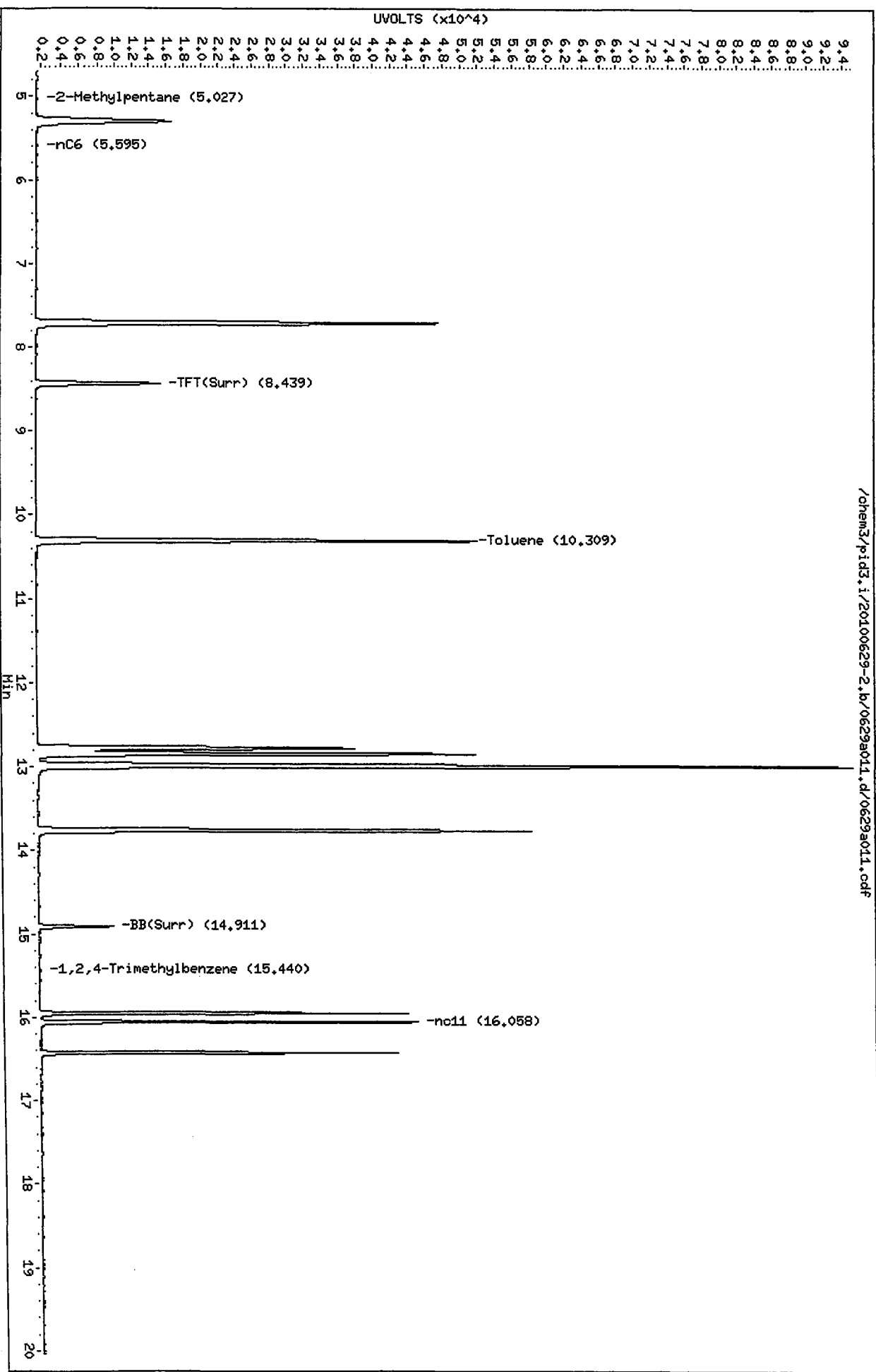
SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.713	0.000	250899	189.77	Benzene
10.308	0.000	258768	196.06	Toluene
12.847	0.000	236635	190.43	Ethylbenzene
12.989	0.000	507143	376.60	M/P-Xylene
13.762	0.000	261479	203.52	O-Xylene
5.301	0.000	68624	192.87	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3,i/20100629-2.b/0629s011.d
Date : 29-JUN-2010 10:26
Client ID:
Sample Info: BETX 200
Column Phase: RTX 502-2 FID

Instrument: pid3,i
Operator: MH
Column diameter: 0.18

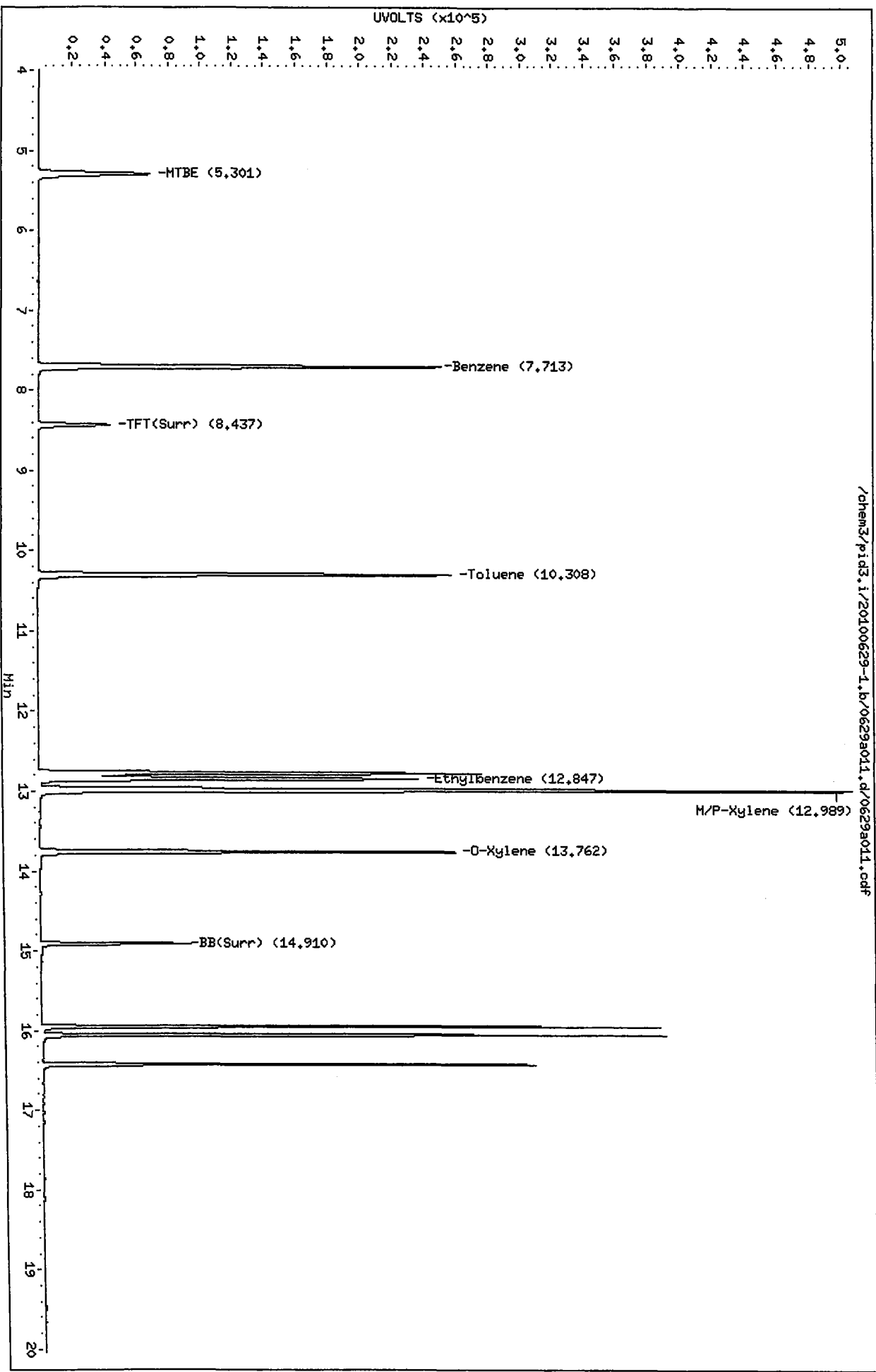


/chem3/pid3,i/20100629-2.b/0629s011.d/0629s011.cdf

Data File: /chem3/pia3.i/20100629-1.b/0629a014.d
Date: 29-JUN-2010 10:26
Client ID:
Sample Info: BETX 200

Column phase: RTX 502-2 PID

Instrument: pia3.i
Operator: MH
Column diameter: 0.18



/chem3/pia3.i/20100629-1.b/0629a014.d/0629a014.caf

MH
7/16/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100629-2.b/0629a012.d
Data file 2: /chem3/pid3.i/20100629-1.b/0629a012.d
Method: /chem3/pid3.i/20100629-1.b/PIDB.m
Instrument: pid3.i
Gas Ical Date: 02-FEB-2010
BETX Ical Date: 29-JUN-2010

ARI ID: BETX ICV
Client ID:
Injection Date: 29-JUN-2010 10:50
Matrix: WATER
Dilution Factor: 1.000

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.439	0.000	6906	81786	95.9	TFT(Surr)
14.911	0.000	4128	34996	95.9	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas Tol-C12 (10.21 to 17.13)	577743	0.831
8015B 2MP-TMB (4.93 to 15.54)	579812	0.428
AK101 nC6-nC10 (5.50 to 14.63)	541769	0.501
NWTPHG Tol-Nap (10.21 to 18.23)	580332	0.783

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.437	0.000	21036	95.7	TFT(Surr)
14.909	0.000	44825	98.3	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.712	-0.001	34297	25.94	Benzene
10.305	-0.002	33530	25.40	Toluene
12.841	-0.005	30482	24.53	Ethylbenzene
12.979	-0.010	67184	49.89	M/P-Xylene
13.757	-0.005	32583	25.36	O-Xylene
5.300	-0.001	9537	26.80	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100629-2.b/0629a012.d

Date: 29-JUN-2010 10:50

Client ID:

Sample Info: BETX ICV

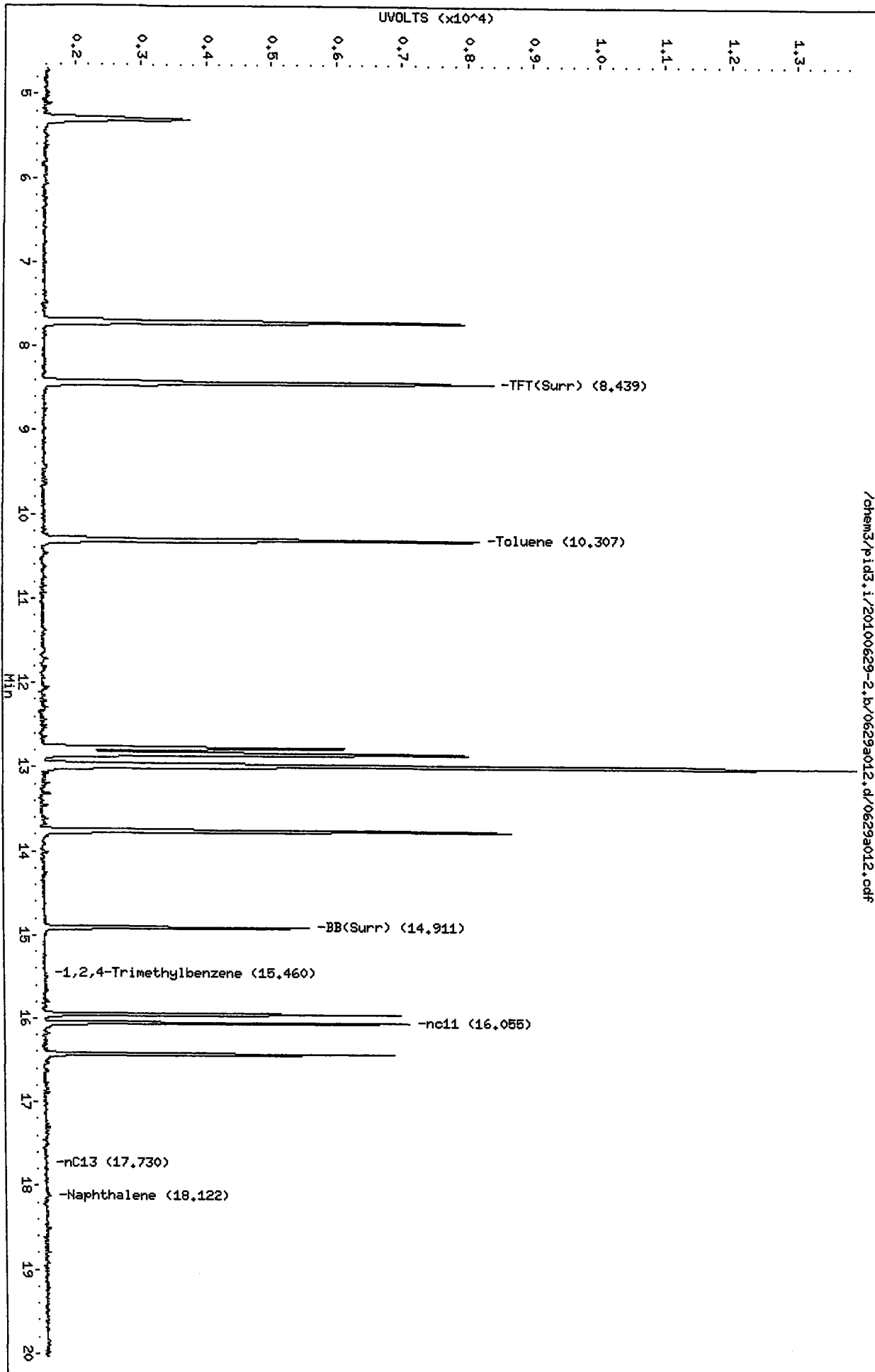
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

/chem3/pid3.i/20100629-2.b/0629a012.d/0629a012.cdf



Data File: /chem3/pid3.i/20100629-1.b/0629a012.d

Date: 29-JUN-2010 10:50

Client ID:

Sample Info: BETX ICV

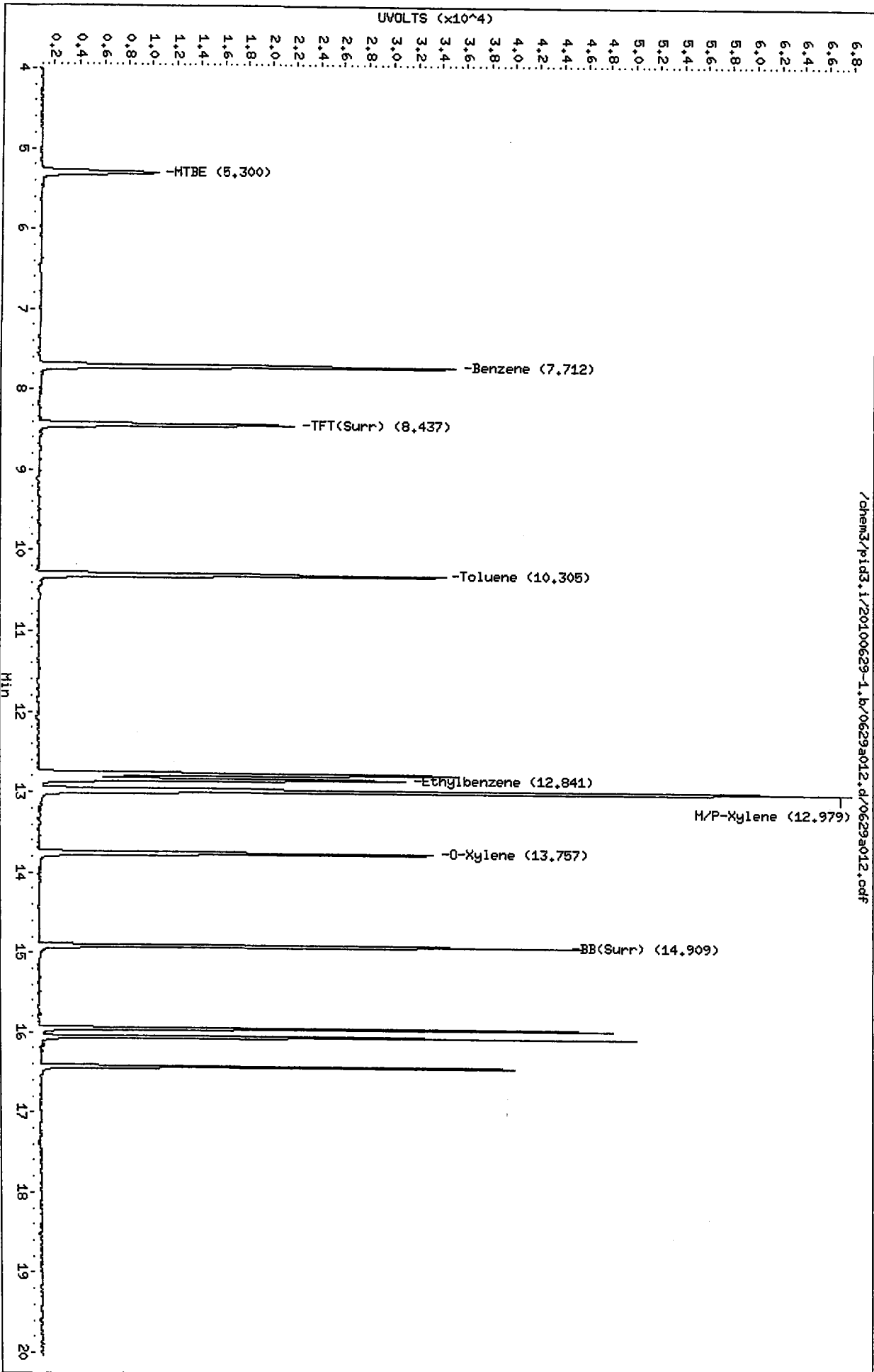
Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

Page 1



Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid3.i/20100629-1.b/PIDB.m
Batch File: /chem3/pid3.i/20100629-1.b
Inst ID: pid3.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
FILENAME:	0629a005	0629a006	0629a007	0629a008	0629a009	0629a010	0629a011	0629a010	0629a011				
INJ. DATE:	29-JUN-2010	29-JUN-2010	29-JUN-2010	29-JUN-2010	29-JUN-2010	29-JUN-2010	29-JUN-2010	29-JUN-2010	29-JUN-2010				
INJ. TIME:	07:59	08:24	08:48	09:12	09:37	10:01	10:26	10:01	10:26				
Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV		
1 MTBE	5.283	5.300	5.297	5.300	5.298	5.302	5.301	5.283	5.213-5.353	5.297	0.006		
2 Benzene	7.694	7.706	7.709	7.712	7.711	7.714	7.713	7.694	7.624-7.764	7.708	0.007		
3 TPT(Surr)	8.417	8.429	8.434	8.436	8.436	8.438	8.437	8.417	8.347-8.487	8.433	0.008		
4 Toluene	10.287	10.297	10.302	10.304	10.305	10.307	10.308	10.287	10.217-10.357	10.301	0.007		
15 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.765-12.905	+++++	+++++		
5 Ethylbenzene	12.817	12.832	12.837	12.840	12.841	12.844	12.847	12.817	12.747-12.887	12.837	0.010		
6 M/P-Xylene	12.955	12.969	12.974	12.977	12.979	12.984	12.989	12.955	12.885-13.025	12.975	0.011		
7 O-Xylene	13.737	13.750	13.753	13.755	13.757	13.759	13.762	13.737	13.687-13.787	13.753	0.008		
8 BB(Surr)	14.893	14.904	14.907	14.908	14.909	14.910	14.910	14.893	14.823-14.963	14.906	0.006		
13 1,3,5 Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.421	+++++	+++++		
14 1,2,4 Trimethyl benzen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.059	12.989-13.129	+++++	+++++		
16 1,3 Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.034	15.964-16.104	+++++	+++++		
17 1,4 Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.140	16.070-16.210	+++++	+++++		
18 1,2 Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.513	16.443-16.583	+++++	+++++		

Reviewer 1 MH Date: 7/10/10
 Reviewer 2 WJ Date: 7-10-10

TPHG/BETX Raw Data
Run Logs, Continuing Calibrations, and Raw Data

ARI Job ID: RG60



VOA Analyst Notes / Corrective Action Log

ARI Project ID: RG60 Client ID: Floyd/Snyder

ARI SOP: 404S(Gas) 410S(BTEX) 430S(VPH) 700S(8260C) 703S(SIM) 706S(524.2) 710S(RSK-175)

Parameter(s): NWTPHC

Instrument: NT-3 NT-5 NT-7 NT-9 NT-10 PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) 5 Curve Date: 7/28/10 Analysis Start Date: 8/5/10

pH ≤ 2.0 YES / NO NA Method Blank In Control? YES / NO

BFB Tune Meets Criteria? YES / NO NA LCS / LCSD Recovery In Control? YES / NO

Internal Standard Meets Criteria? YES / NO / NA Surrogate Recovery In Control? YES / NO

ICal acceptable? YES / NO CCal acceptable? YES / NO

Q flag applied? YES / NO / NA Q flag applied? YES / NO / NA

Manual Integrations for ICal? YES / NO Manual Integrations for Samples? Yes / NO

Special Analysis Criteria Met? YES / NO NA

Bubbles/Headspace: None SM (≤ 2mm ●) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Sample A

Additional Details on Reverse: Yes / No

Analyst: [Signature] Date: 8/6/10

Reviewer: _____ Date: _____

1
8/6/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/080510-1.b/0805a002.d ARI ID: RT+BCAL 1
Data file 2: /chem3/pid2.i/080510-2.b/0805a002.d Client ID:
Method: /chem3/pid2.i/080510-2.b/PIDB.m Injection Date: 05-AUG-2010 08:17
Instrument: pid2.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 28-JUL-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.187	0.000	3965	66048	95.5	TFT(Surr)
14.803	0.000	2863	26738	94.8	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	715583	1.240
8015B (2MP-TMB)	1029215	0.789
AKGas (nC6-nC10)	742537	0.835
NWGas (Tol-Nap)	756110	1.256

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.236	0.010	1362	94.8	TFT(Surr)
14.829	0.004	5501	94.6	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
7.492	0.009	2676	22.98	Benzene
10.100	0.007	2350	22.66	Toluene
12.659	0.003	2504	21.85	Ethylbenzene
12.806	0.003	4518	46.63	M/P-Xylene
13.610	0.005	2393	23.57	O-Xylene
5.109	0.009	955	22.75	MTBE

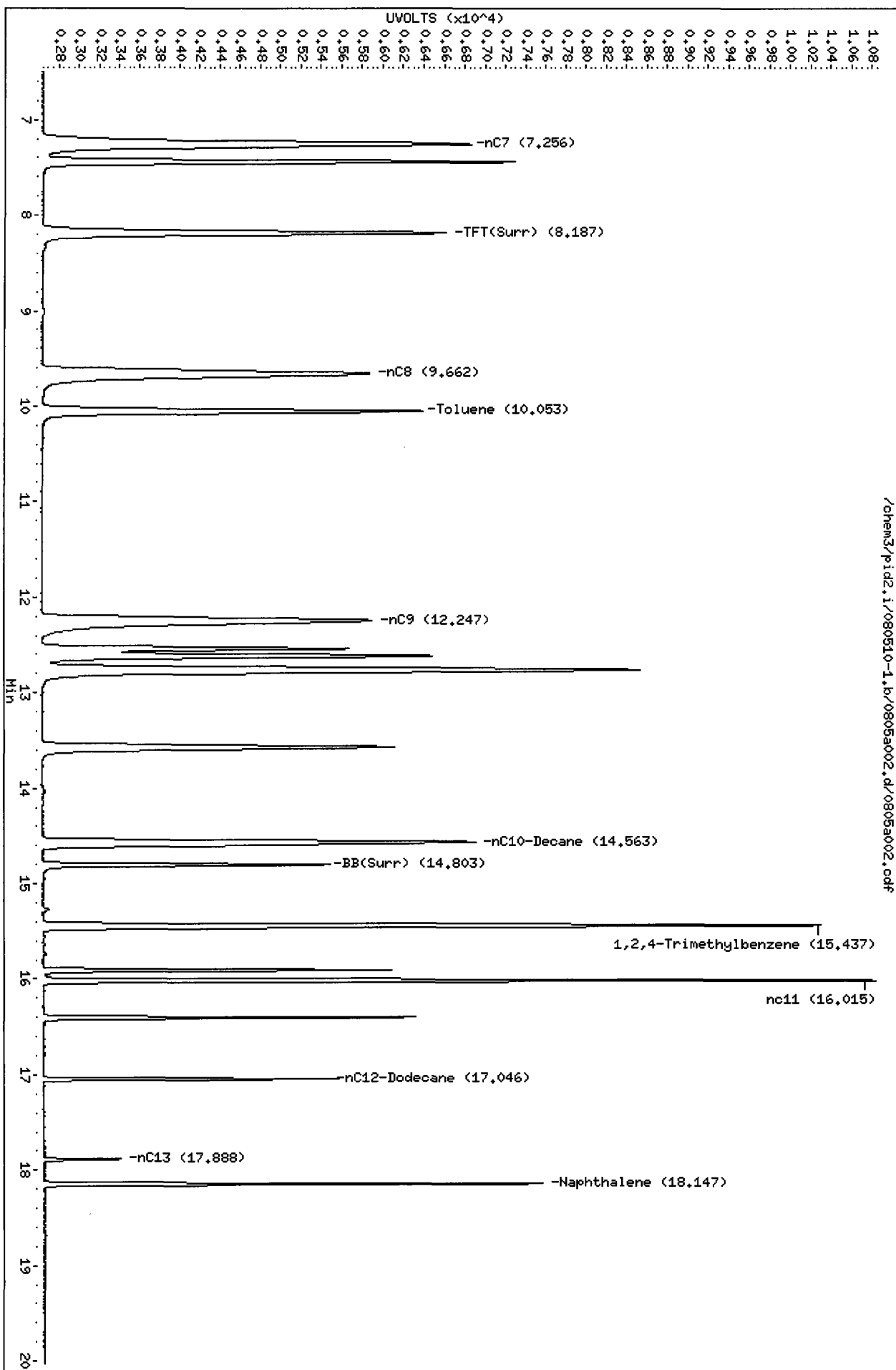
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/080510-1.b/0805a002.d
Date : 05-AUG-2010 08:17

Client ID:
Sample Info: RT+BCAL 1

Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: MH
Column diameter: 0.18



Data File: /chem3/pid2.i/080510-2.b/0805a002.d
Date: 05-AUG-2010 08:17

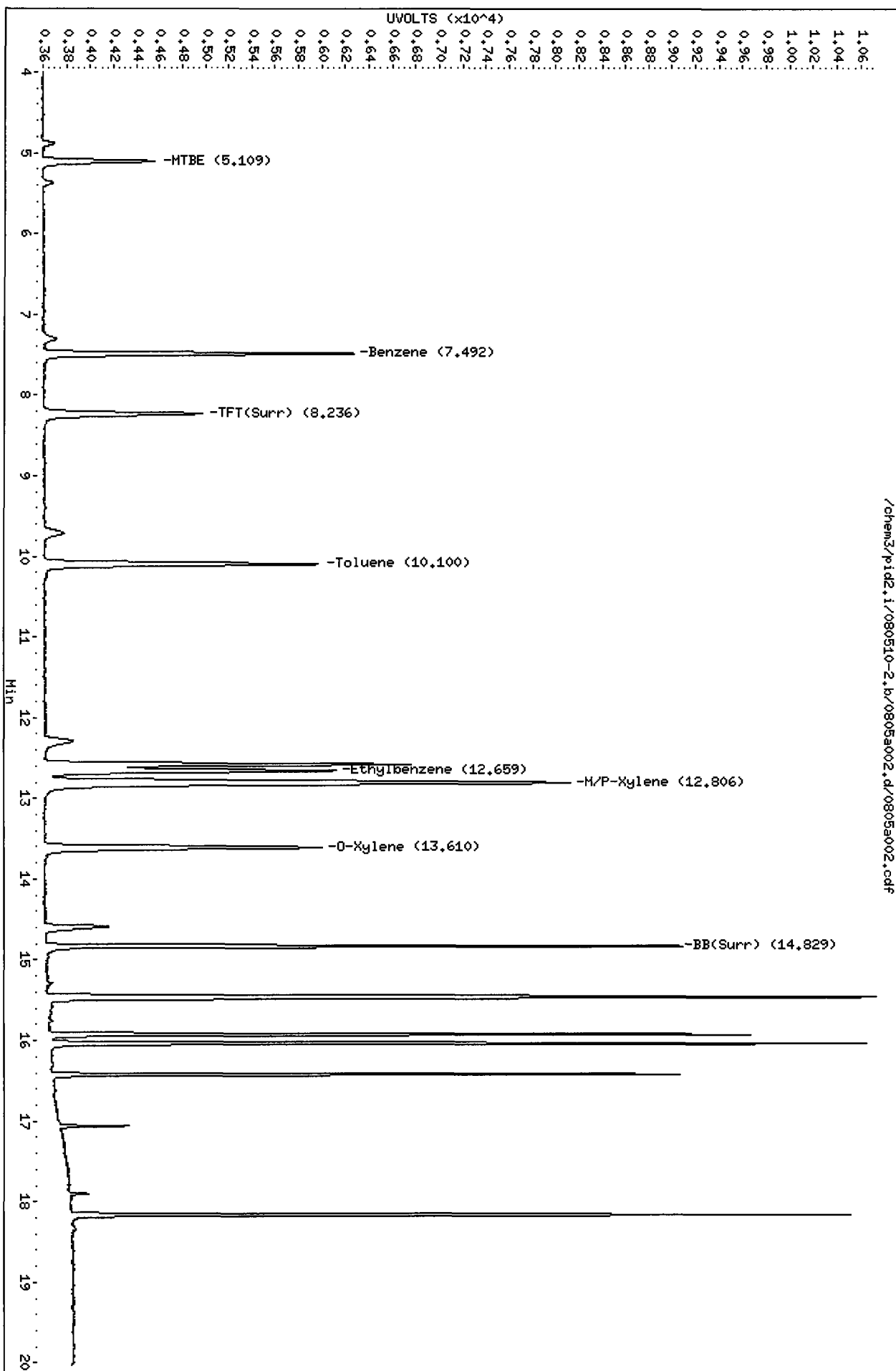
Client ID:
Sample Info: RT+GCAL 1

Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: MH
Column diameter: 0.18

/chem3/pid2.i/080510-2.b/0805a002.d/0805a002.cdf



Mh
5/6/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/080510-1.b/0805a003.d ARI ID: GCAL 1
Data file 2: /chem3/pid2.i/080510-2.b/0805a003.d Client ID:
Method: /chem3/pid2.i/080510-2.b/PIDB.m Injection Date: 05-AUG-2010 08:43
Instrument: pid2.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 28-JUL-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	-----	-----
8.183	-0.004	4231	70266	101.9	TFT (Surr)
14.800	-0.003	3028	29802	100.3	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
-----	-----	-----
WAGas (Tol-C12)	1427774	2.475
8015B (2MP-TMB)	3268248	2.505
AKGas (nC6-nC10)	2253604	2.534
NWGas (Tol-Nap)	1482747	2.463

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	-----	-----
8.232	0.006	1375	95.7	TFT (Surr)
14.826	0.002	5470	94.0	BB (Surr)

AROMATICS (PID)

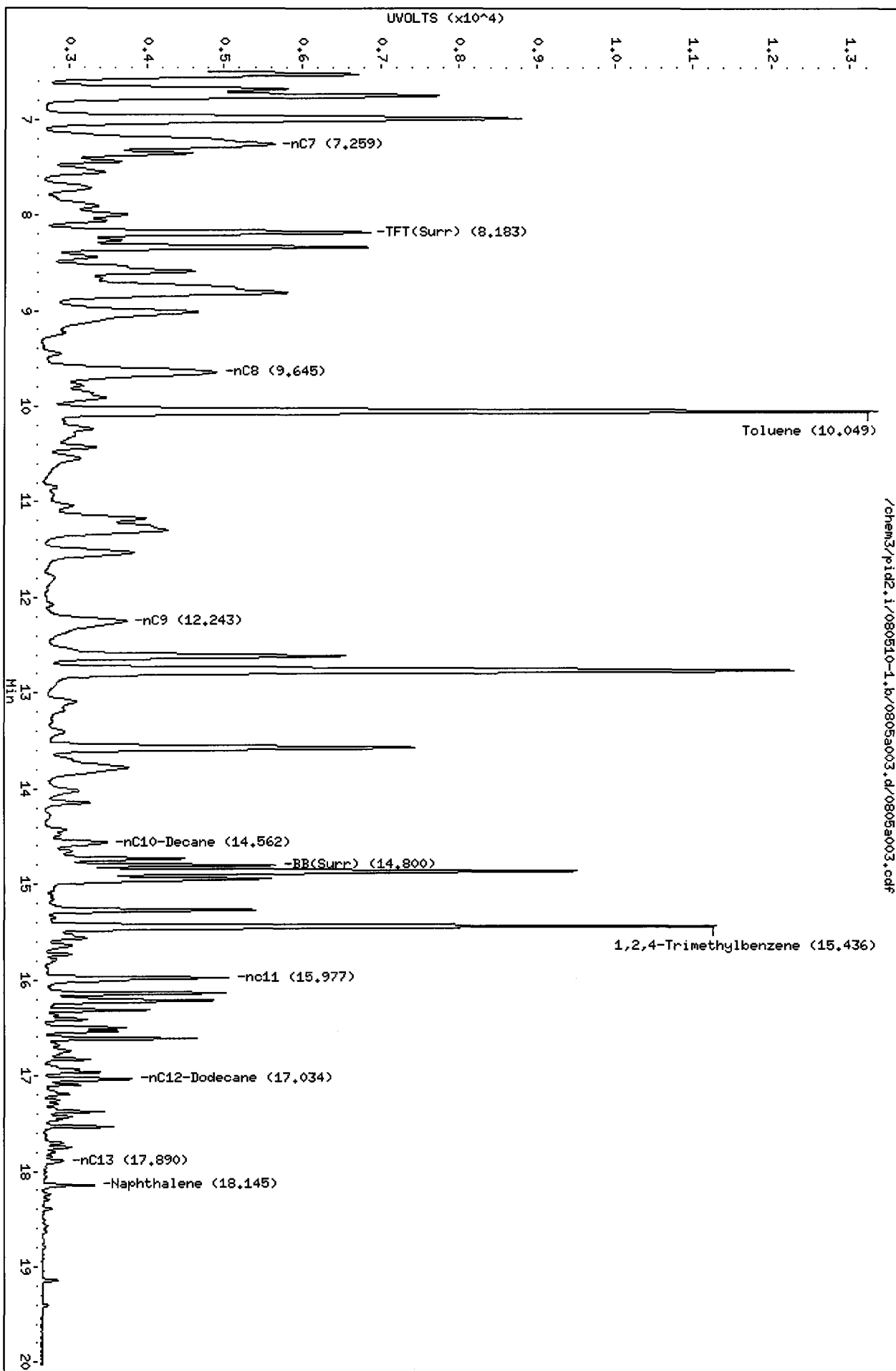
RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
7.488	0.005	552	4.74	Benzene
10.096	0.003	6687	64.47	Toluene
12.655	-0.001	2299	20.06	Ethylbenzene
12.803	0.001	7277	75.10	M/P-Xylene
13.607	0.002	3206	31.58	O-Xylene
5.110	0.010	8515	202.81	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/080510-1.b/0805a003.d
Date: 05-AUG-2010 08:43
Client ID:
Sample Info: GCRL 1

Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: MH
Column diameter: 0.18

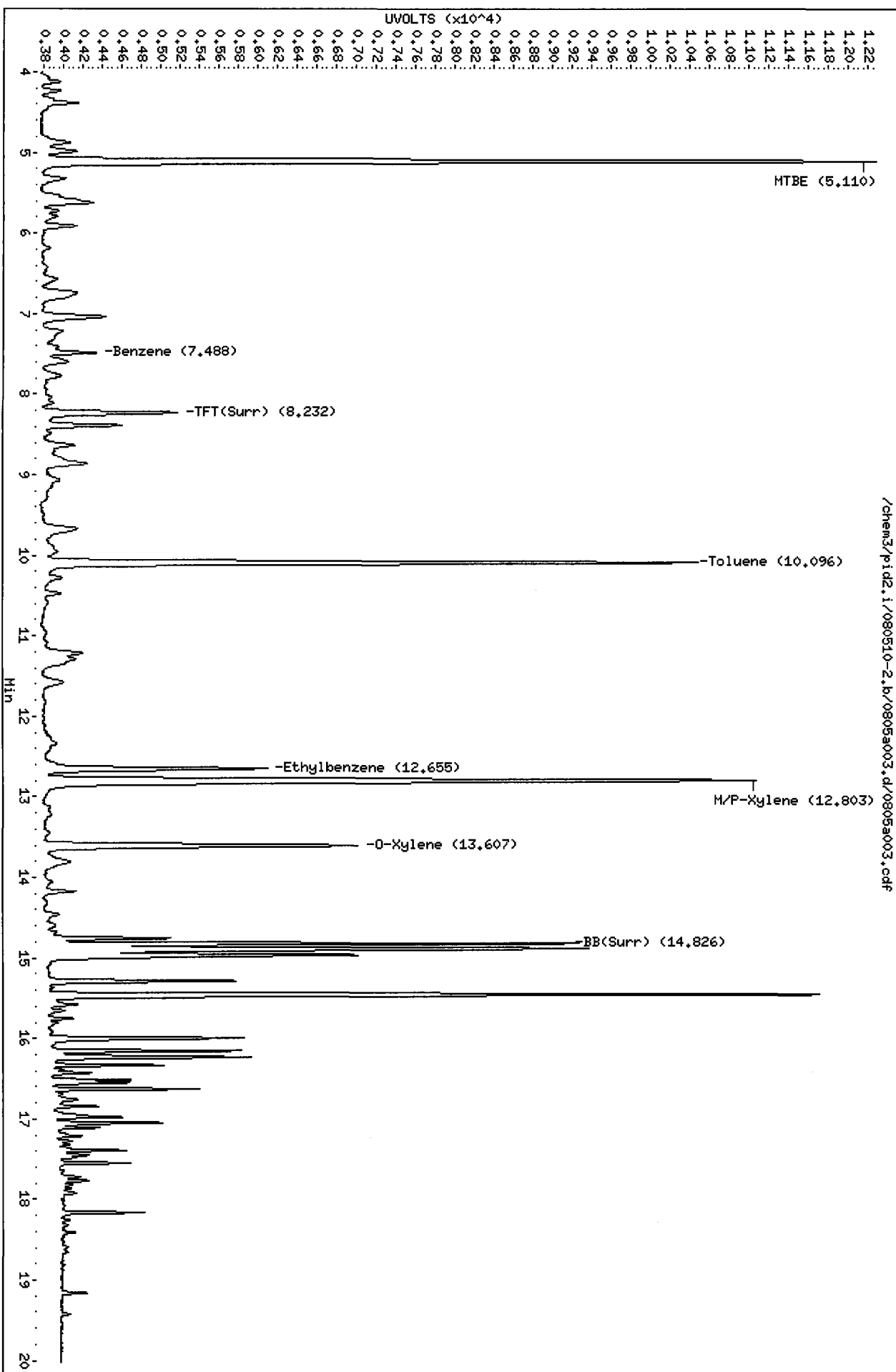


/chem3/pid2.i/080510-1.b/0805a003.d/0805a003.cdf

Data File: /chem3/pid2.i/080510-2.b/0805a003.d
Date: 05-AUG-2010 08:43
Client ID:
Sample Info: COAL 1

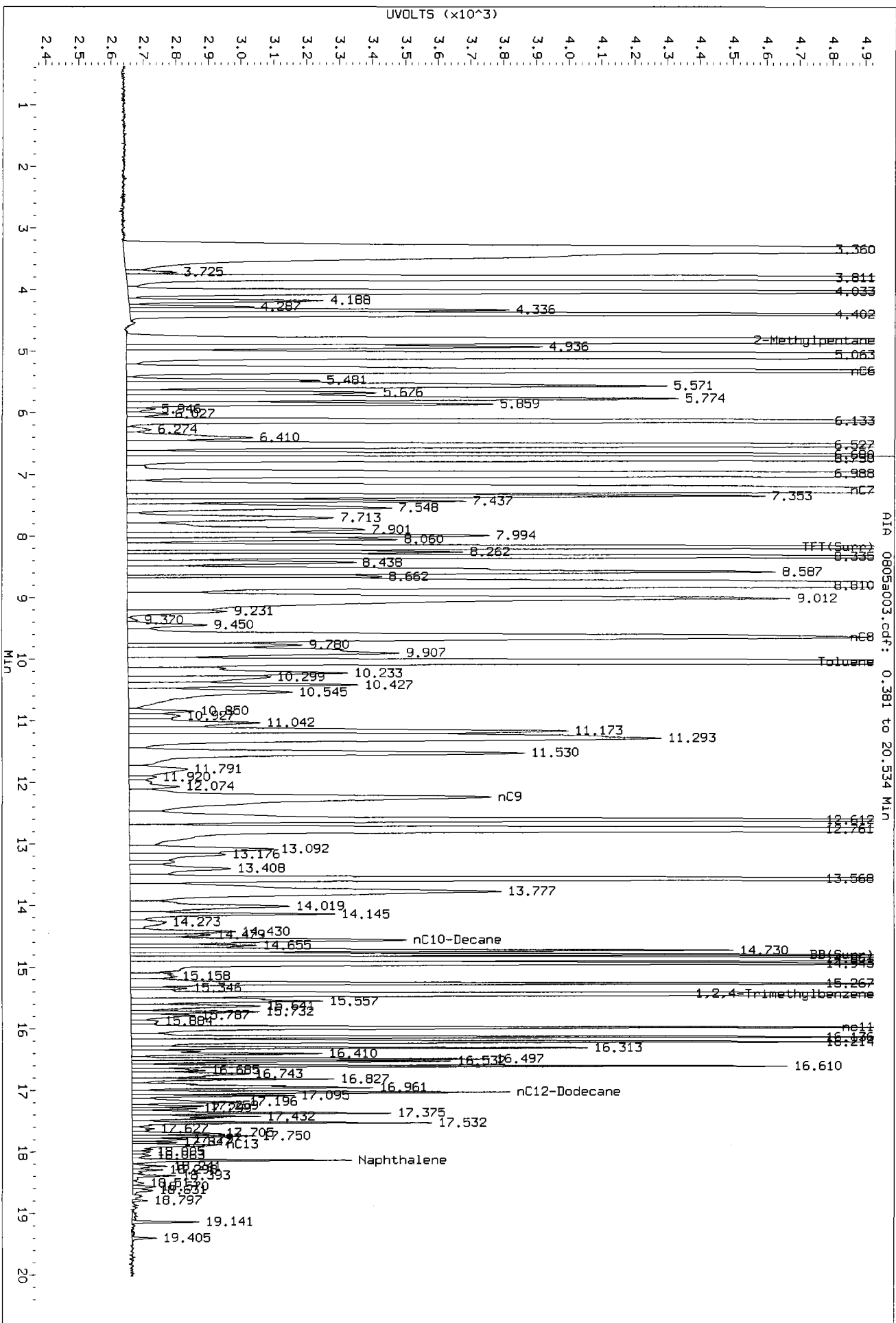
Column phase: RTX 502-2 PID

Instrument: pid2.i
Operator: HH
Column diameter: 0.18



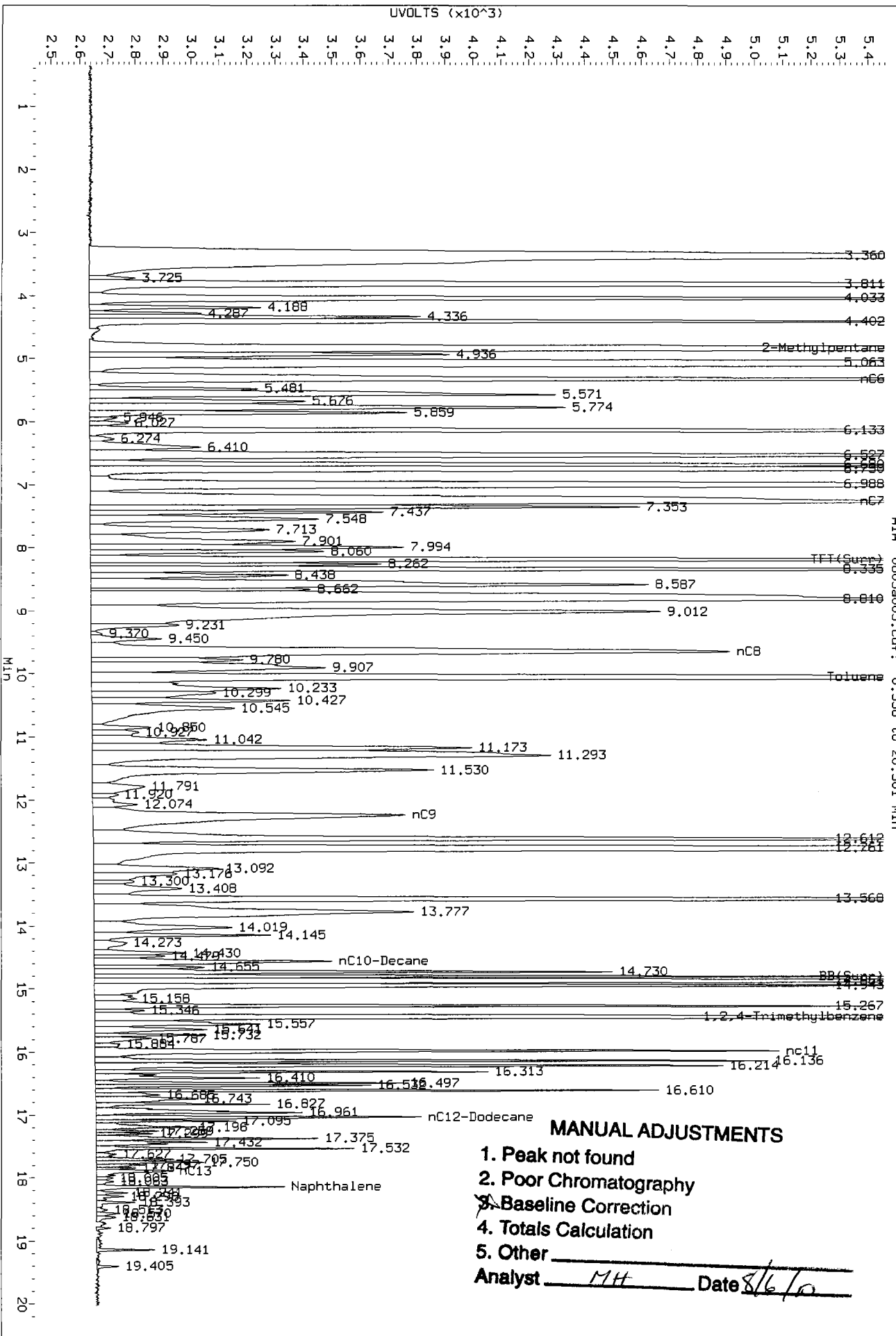
MH
8/6/10

Data File: /chem3/pid2.1/080510-1.b/0805a003.d/0805a003.cdf
Injection Date: 05-AUG-2010 08:43
Instrument: pid2.1
Client Sample ID:



AIR 0805a003.cdf: 0.381 to 20.534 MIN

Data File: /chem3/pid2.1/080510-1.b/0805a003.d/0805a003.cdf
 Injection Date: 05-AUG-2010 08:43
 Instrument: pid2.1
 Client Sample ID:



AIA 0805a003.cdf: 0.358 to 20.301 MIN

MANUAL ADJUSTMENTS

- 1. Peak not found
 - 2. Poor Chromatography
 - 3. Baseline Correction
 - 4. Totals Calculation
 - 5. Other
- Analyst MH Date 8/6/10

Ms
8/6/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/080510-1.b/0805a004.d ARI ID: LCS0805
Data file 2: /chem3/pid2.i/080510-2.b/0805a004.d Client ID:
Method: /chem3/pid2.i/080510-2.b/PIDB.m Injection Date: 05-AUG-2010 09:09
Instrument: pid2.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 28-JUL-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	-----	-----
8.180	-0.007	4052	67139	97.6	TFT(Surr)
14.799	-0.003	2931	27146	97.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
-----	-----	-----
WAGas (Tol-C12)	583254	1.011
8015B (2MP-TMB)	1347694	1.033
AKGas (nC6-nC10)	923118	1.038
NWGas (Tol-Nap)	608484	1.011

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	-----	-----
8.229	0.003	1346	93.7	TFT(Surr)
14.825	0.001	5477	94.2	BB(Surr)

AROMATICS (PID)

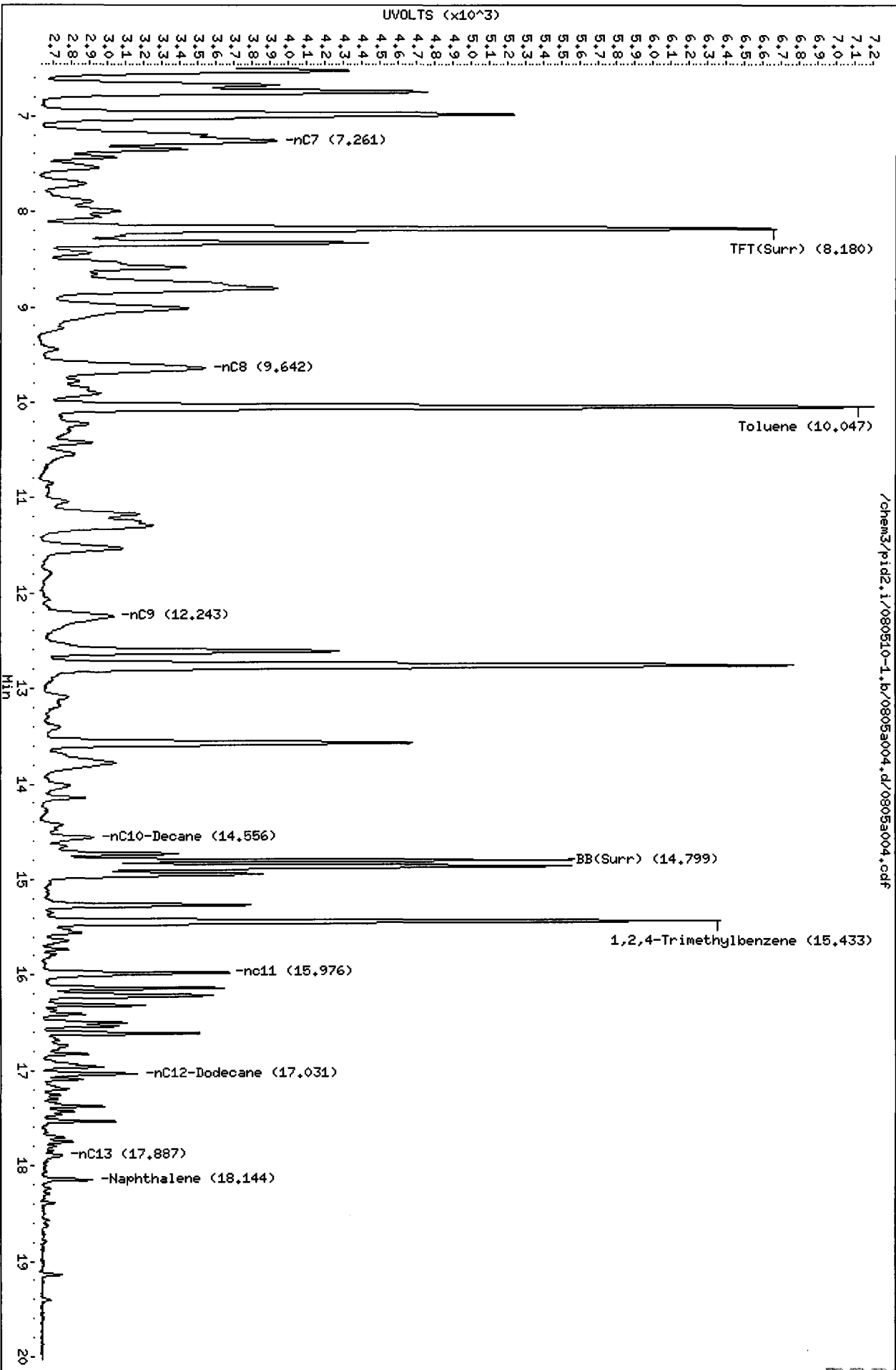
RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
7.484	0.001	222	1.91	Benzene
10.094	0.001	2745	26.47	Toluene
12.654	-0.002	952	8.31	Ethylbenzene
12.802	-0.001	3079	31.78	M/P-Xylene
13.605	-0.001	1349	13.29	O-Xylene
5.105	0.005	3593	85.58	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/080510-1.b/0805a004.d
Date: 05-AUG-2010 09:09
Client ID:
Sample Info: LCS0805

Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: HH
Column diameter: 0.18



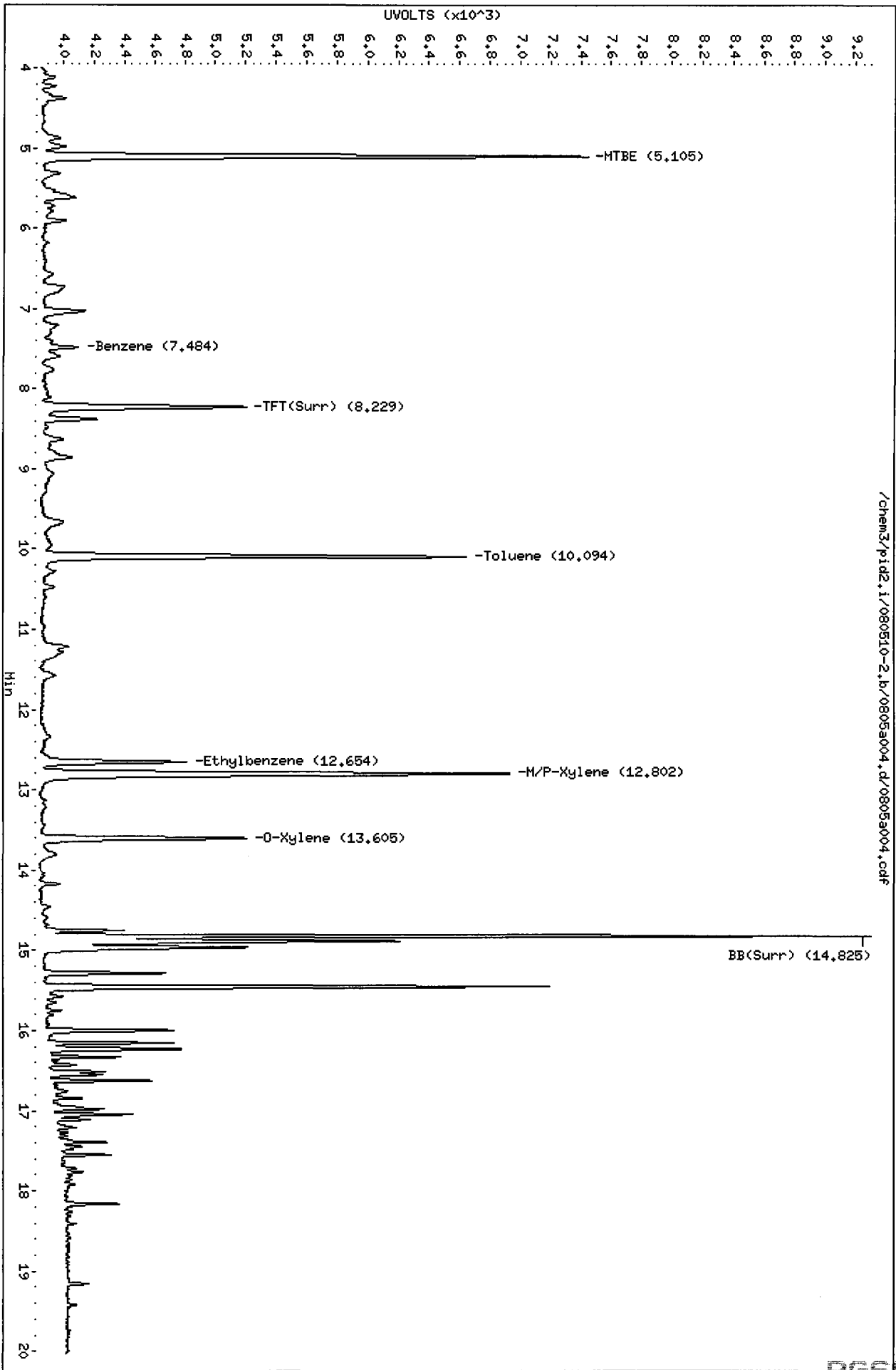
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Data File: /chem3/pid2.i/080510-2.b/0805a004.d
Date: 05-AUG-2010 09:09
Client ID:
Sample Info: LCS0805

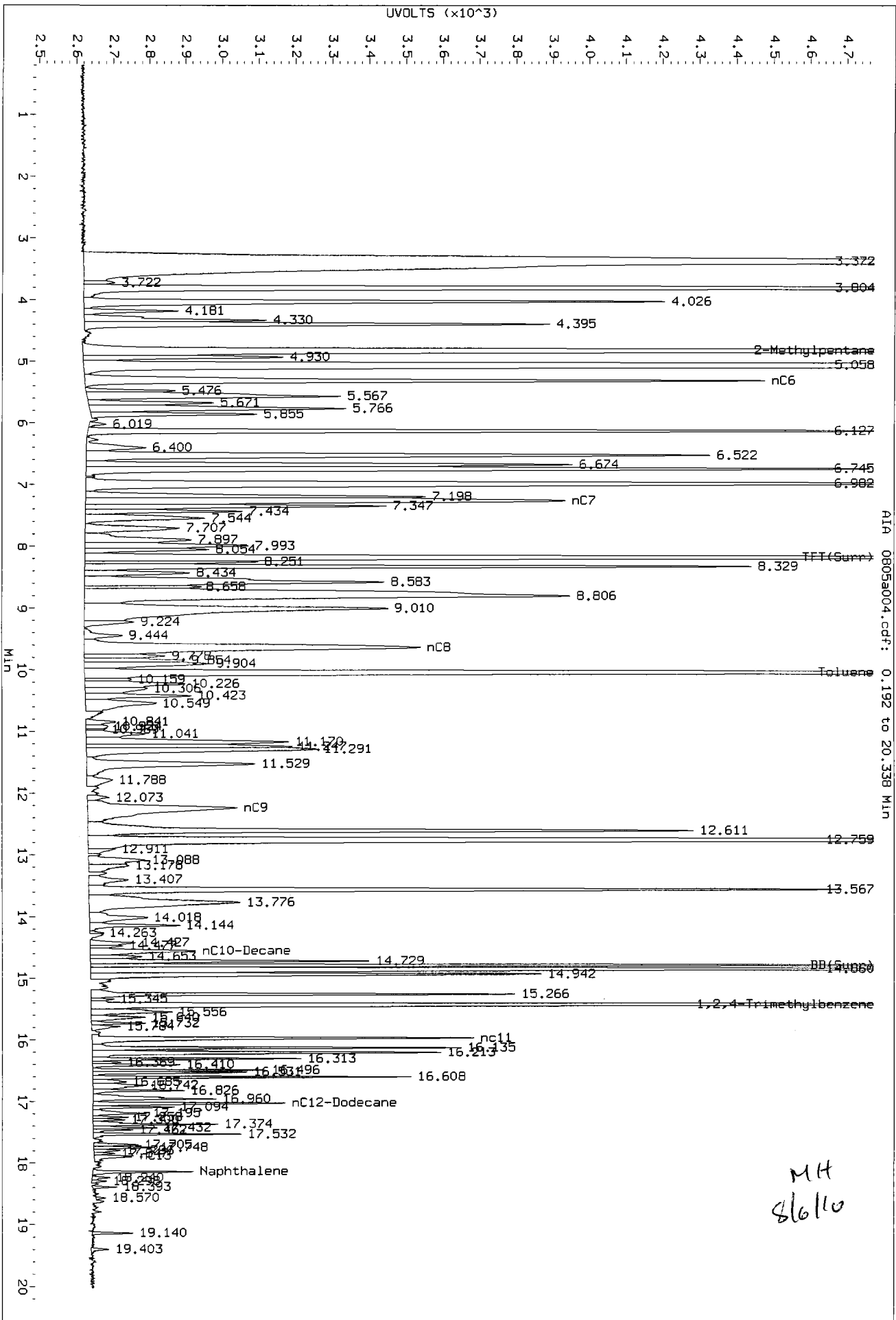
Column phase: RTX 502-2 PID

Instrument: pid2.i
Operator: HH
Column diameter: 0.18

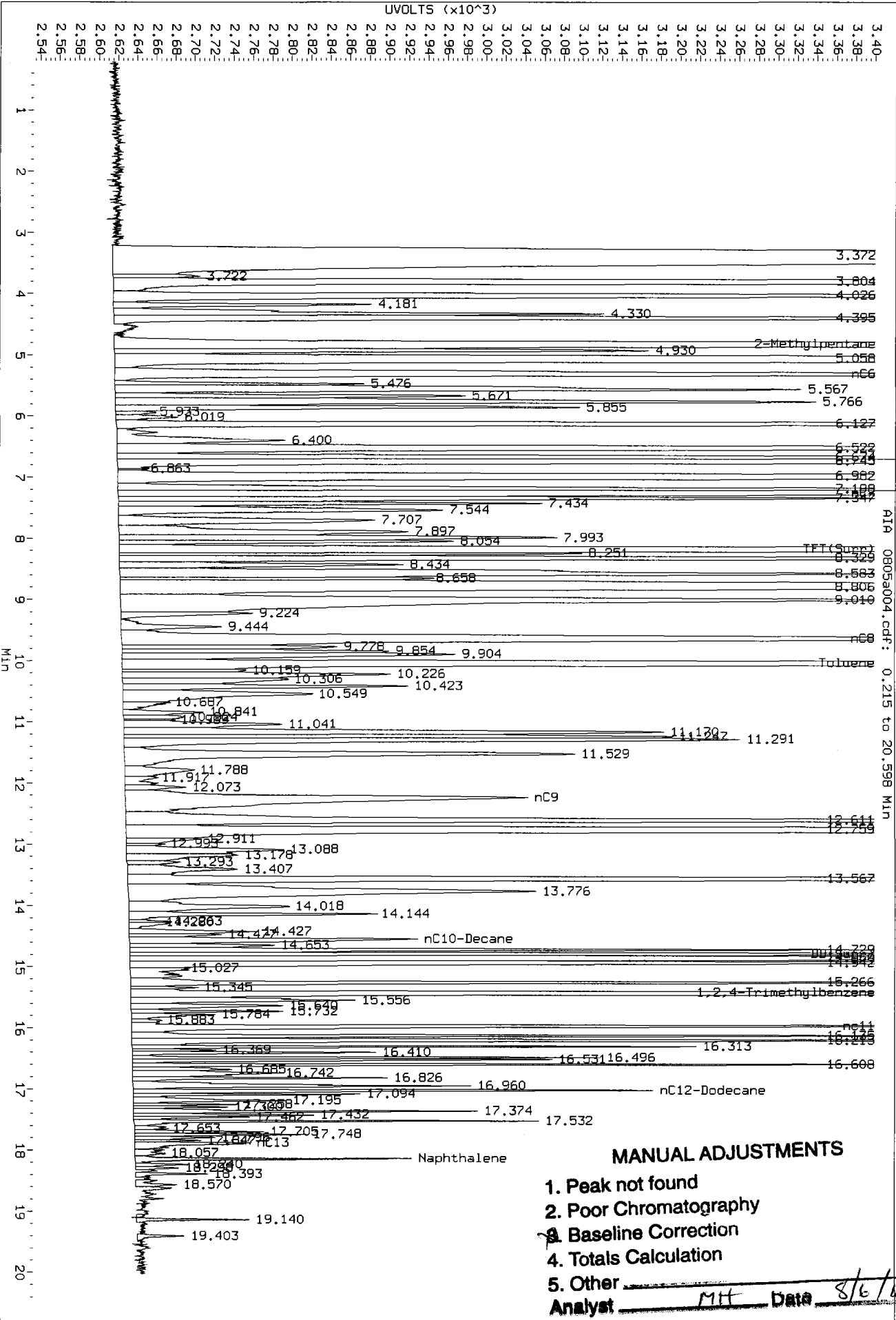
/chem3/pid2.i/080510-2.b/0805a004.d/0805a004.cdf



Data File: /chem3/pid2.1/080510-1.b/0805a004.d/0805a004.cdf
 Injection Date: 05-AUG-2010 09:09
 Instrument: pid2.1
 Client Sample ID:



MH
8/6/10



A1A 0805a004.cdf: 0.215 to 20.598 MIN

MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other _____

Analyst MH Date 8/6/10

Mr.
5/6/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/080510-1.b/0805a005.d	ARI ID: LCSD0805
Data file 2: /chem3/pid2.i/080510-2.b/0805a005.d	Client ID:
Method: /chem3/pid2.i/080510-2.b/PIDB.m	Injection Date: 05-AUG-2010 09:35
Instrument: pid2.i	Matrix: WATER
Gas Ical Date: 28-JUL-2010	Dilution Factor: 1.000
BETX Ical Date: 28-JUL-2010	

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FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.179	-0.008	3981	65489	95.9	TFT(Surr)
14.798	-0.004	2848	26456	94.3	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	560488	0.972
8015B (2MP-TMB)	1299928	0.996
AKGas (nC6-nC10)	889096	1.000
NWGas (Tol-Nap)	584447	0.971

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.227	0.001	1336	93.0	TFT(Surr)
14.825	0.000	5405	92.9	BB(Surr)

AROMATICS (PID)

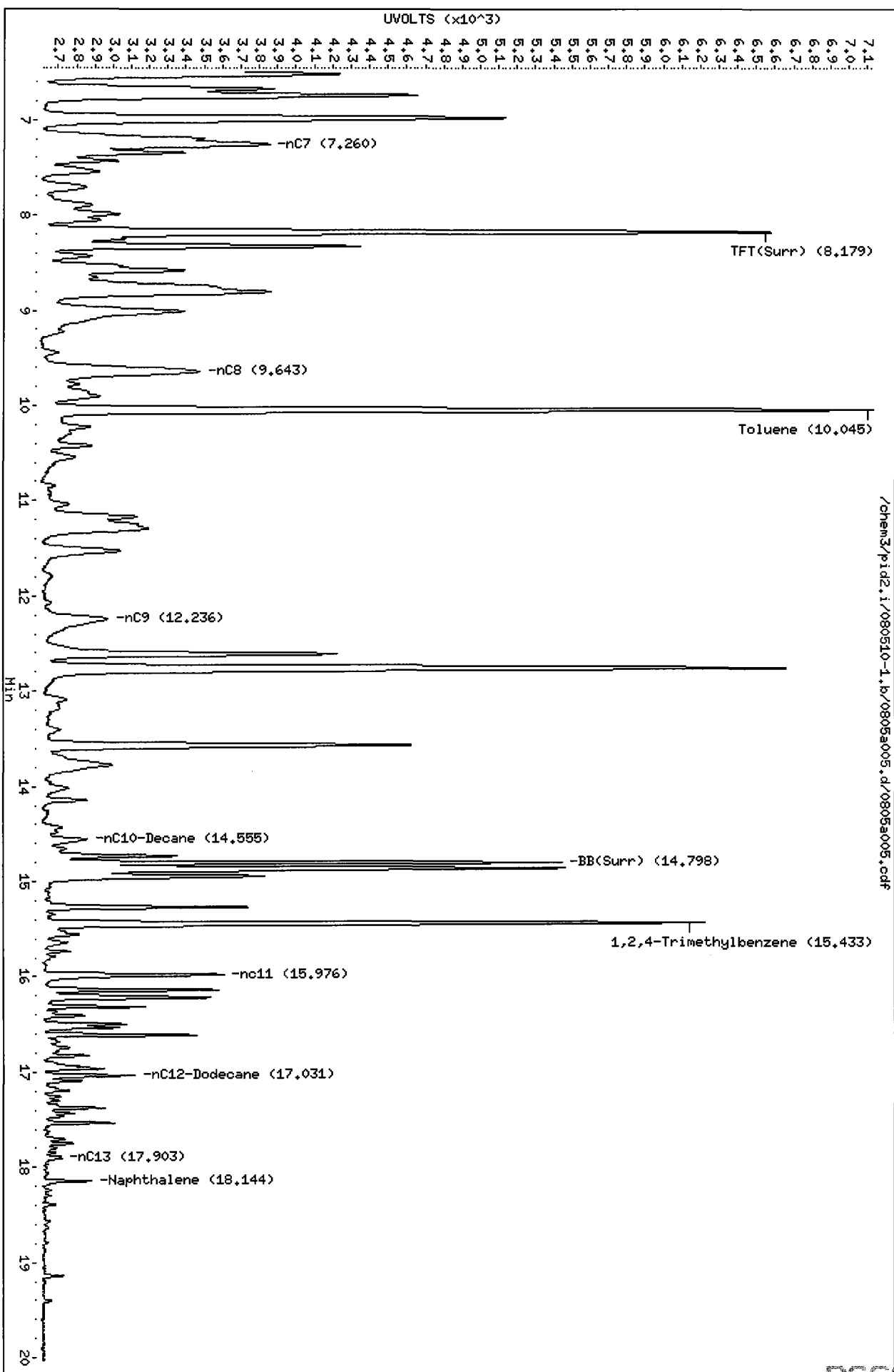
RT	Shift	Response	Amount	Compound
7.483	0.000	189	1.62	Benzene
10.092	-0.001	2760	26.61	Toluene
12.652	-0.004	942	8.22	Ethylbenzene
12.800	-0.003	3019	31.16	M/P-Xylene
13.604	-0.001	1312	12.92	O-Xylene
5.102	0.002	3650	86.93	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/080510-1.b/0805a005.d
Date: 05-AUG-2010 09:35
Client ID:
Sample Info: LCSJ0805

Column phase: RTX 502-2 FID

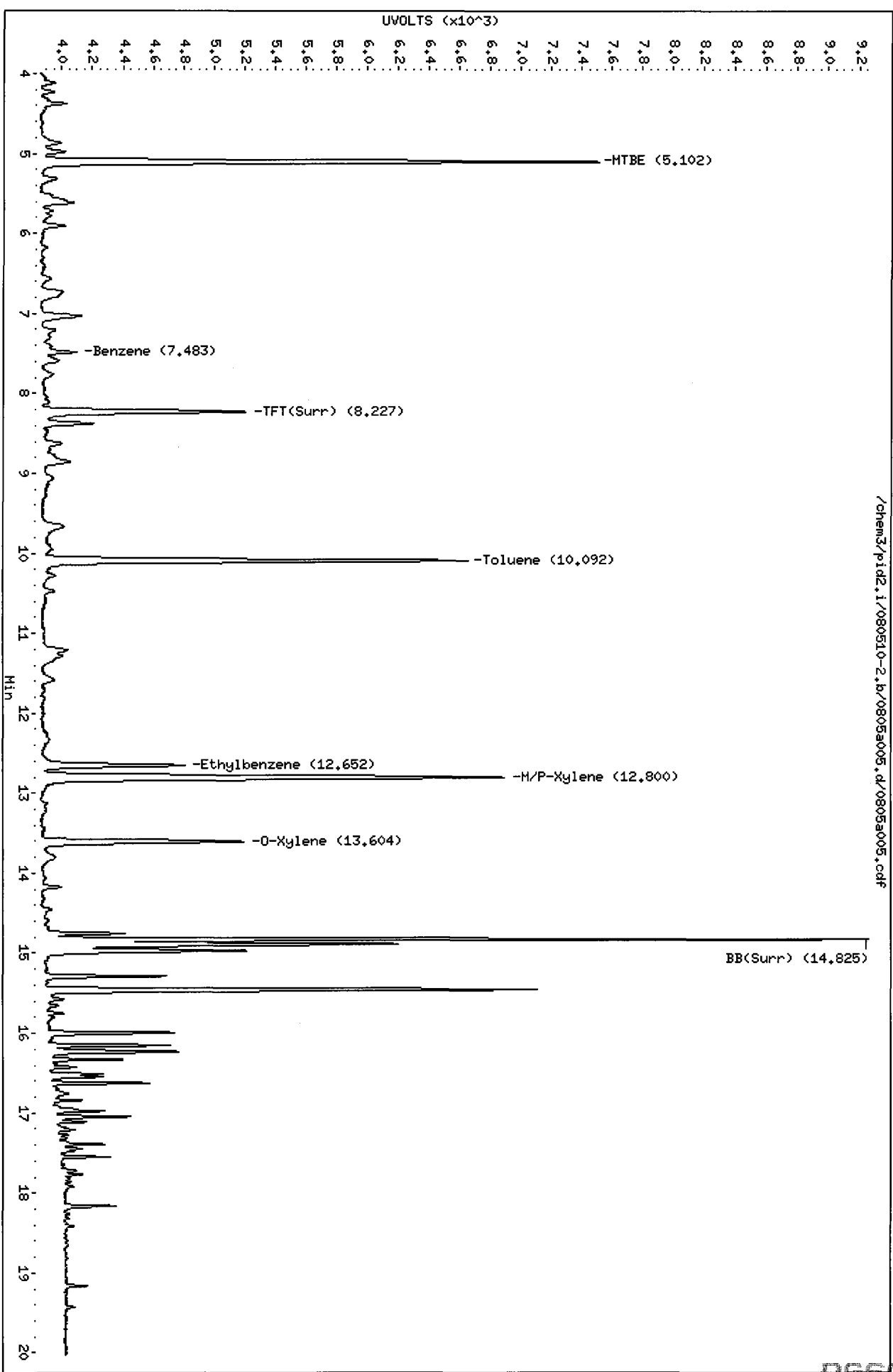
Instrument: pid2.i
Operator: HH
Column diameter: 0.18



Data File: /chem3/pid2.i/080510-2.b/0805a005.d
Date: 05-AUG-2010 09:35
Client ID:
Sample Info: LCSD0805

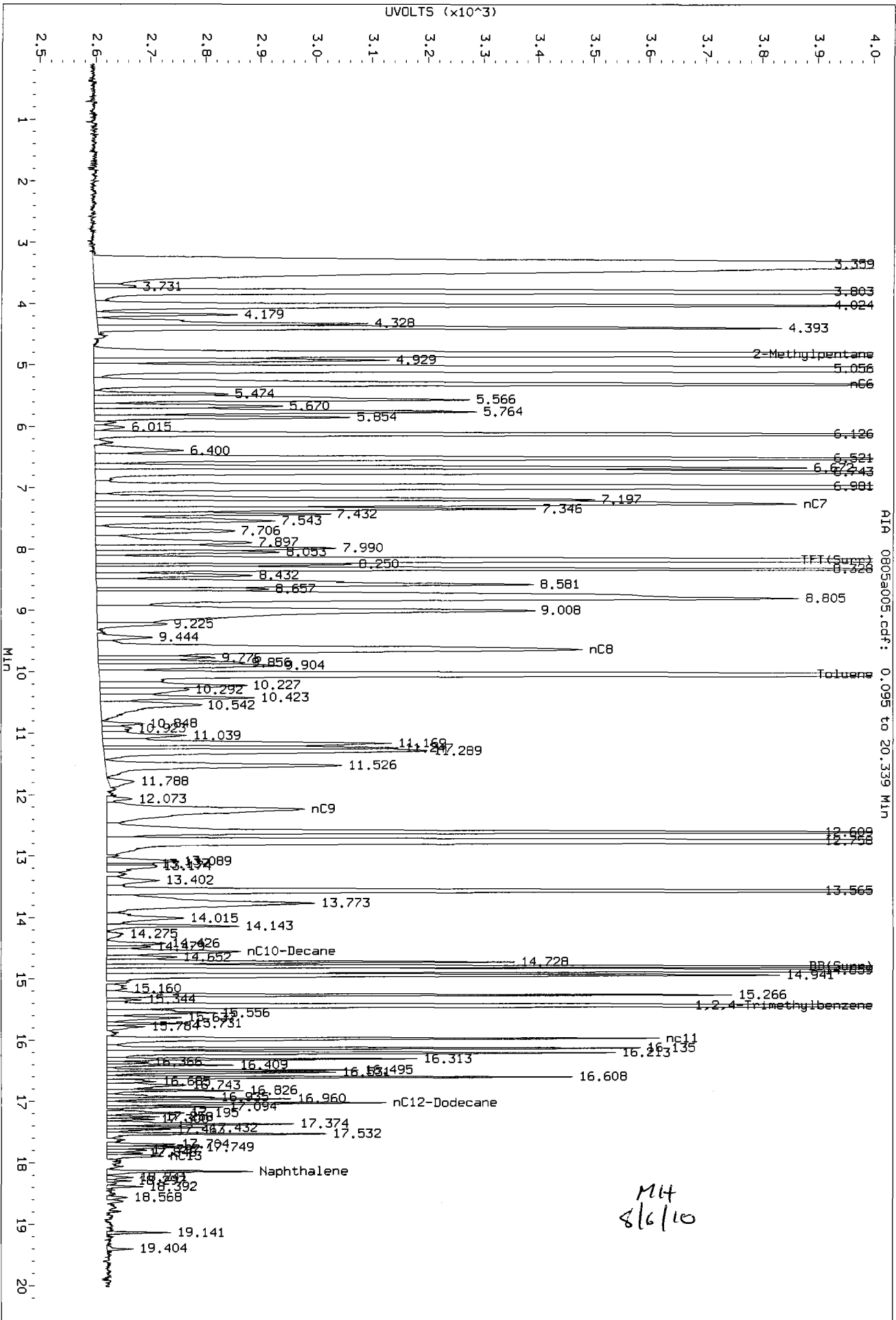
Column phase: RTX 502-2 PID

Instrument: pid2.i
Operator: MH
Column diameter: 0.18

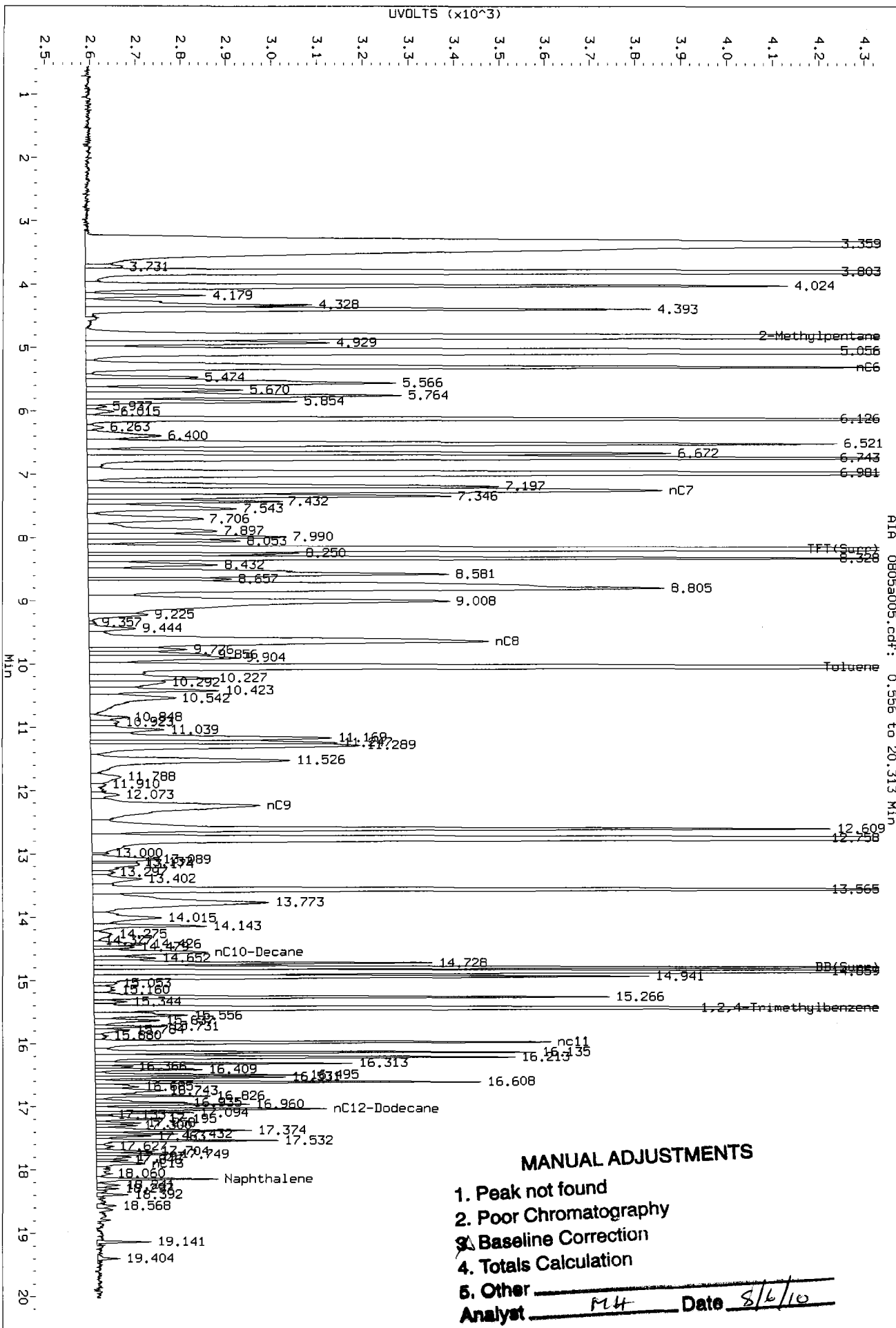


/chem3/pid2.i/080510-2.b/0805a005.d/0805a005.cdf

Data File: /chem3/pid2.1/080510-1.b/0805a005.d/0805a005.cdf
 Injection Date: 05-AUG-2010 09:35
 Instrument: pid2.1
 Client Sample ID:



Data File: /chem3/pid2.1/080510-1.b/0805a005.d/0805a005.cdf
 Injection Date: 05-AUG-2010 09:35
 Instrument: pid2.1
 Client Sample ID:



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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/080510-1.b/0805a006.d ARI ID: MB0805
Data file 2: /chem3/pid2.i/080510-2.b/0805a006.d Client ID:
Method: /chem3/pid2.i/080510-2.b/PIDB.m Injection Date: 05-AUG-2010 10:01
Instrument: pid2.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 28-JUL-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	-----	-----
8.179	-0.008	3695	61611	89.0	TFT (Surr)
14.798	-0.005	2715	25159	89.9	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
-----	-----	-----
WAGas (Tol-C12)	270	0.000
8015B (2MP-TMB)	1393	0.001
AKGas (nC6-nC10)	1	0.000
NWGas (Tol-Nap)	481	0.001

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	-----	-----
8.227	0.001	1270	88.4	TFT (Surr)
14.824	0.000	5176	89.0	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

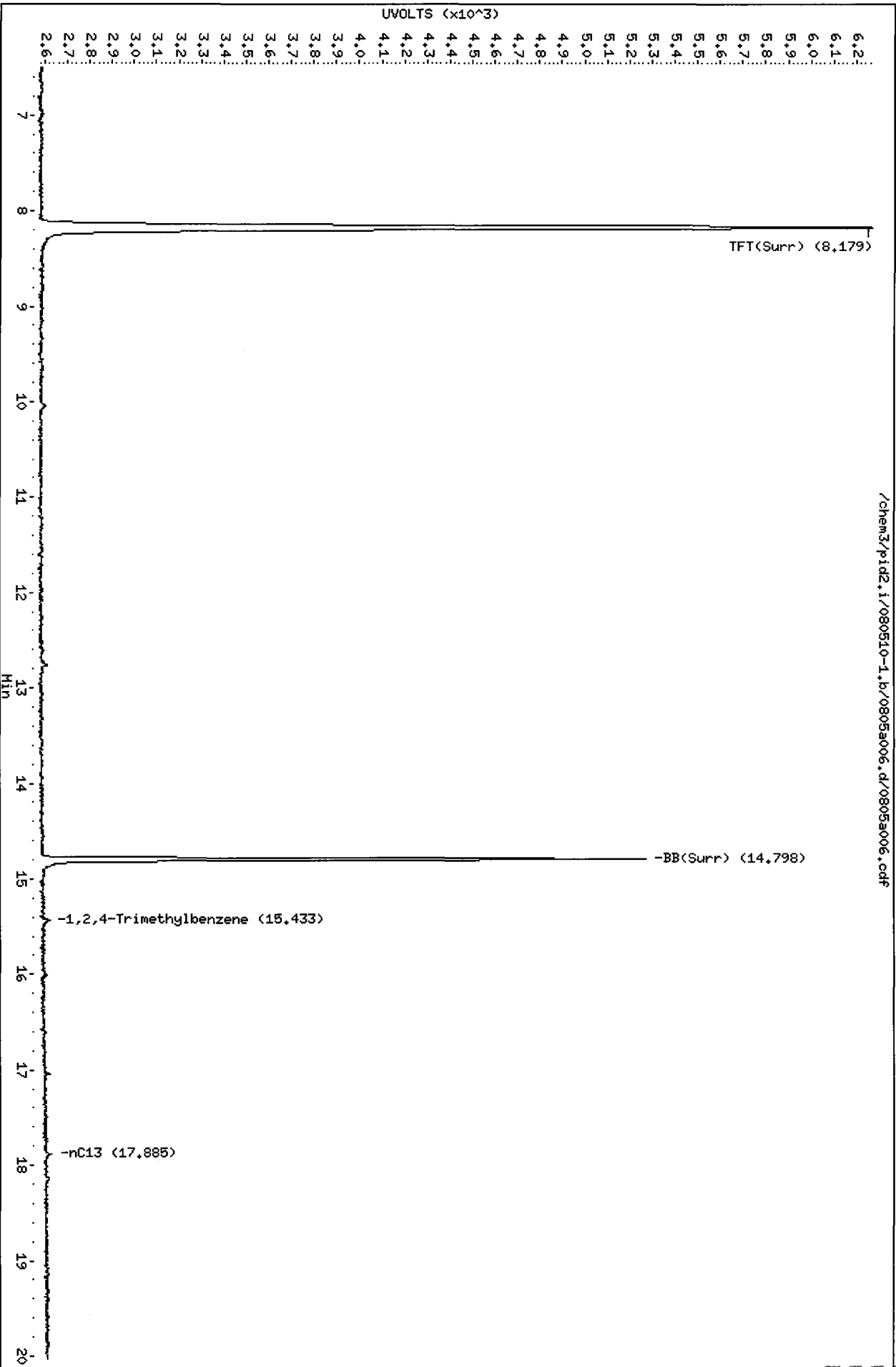
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/080510-1.b/0805a006.d
Date: 05-AUG-2010 10:01
Client ID:
Sample Info: MB0805

Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: HH
Column diameter: 0.18

/chem3/pid2.i/080510-1.b/0805a006.d/0805a006.cdf



Data File: /chem3/pid2.i/080510-2.b/0805a006.d

Date: 05-AUG-2010 10:01

Client ID:

Sample Info: MB0805

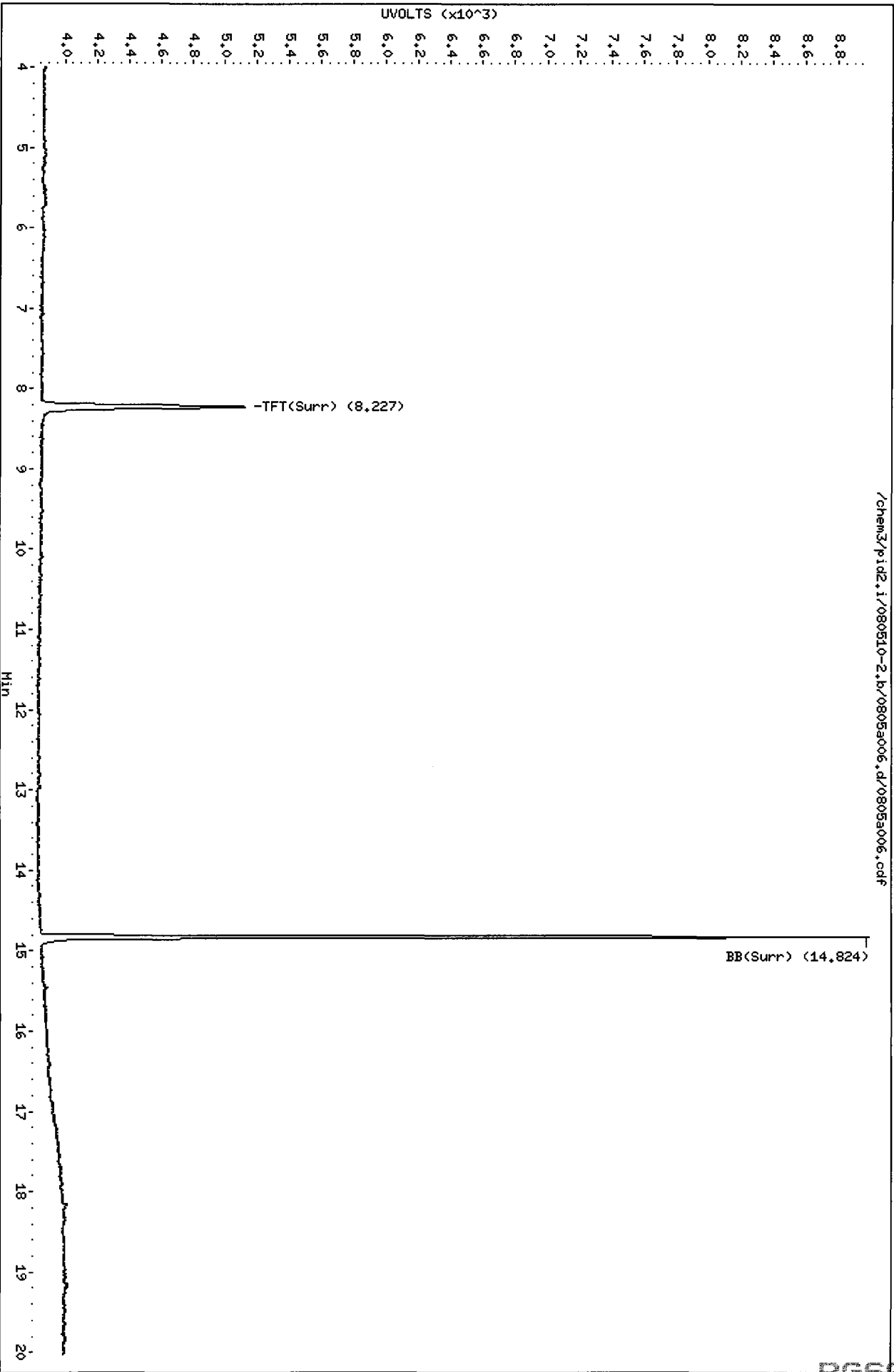
Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: MH

Column diameter: 0.18

/chem3/pid2.i/080510-2.b/0805a006.d/0805a006.cdf



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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/080510-1.b/0805a014.d
Data file 2: /chem3/pid2.i/080510-2.b/0805a014.d
Method: /chem3/pid2.i/080510-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 28-JUL-2010

ARI ID: BCAL 2
Client ID:
Injection Date: 05-AUG-2010 13:56
Matrix: WATER
Dilution Factor: 1.000

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	-----	-----
8.182	-0.005	3848	64309	92.7	TFT (Surr)
14.800	-0.003	2828	26101	93.7	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
-----	-----	-----
WAGas (Tol-C12)	412338	0.715
8015B (2MP-TMB)	423621	0.325
AKGas (nC6-nC10)	389754	0.438
NWGas (Tol-Nap)	412633	0.685

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	-----	-----
8.229	0.004	1331	92.6	TFT (Surr)
14.826	0.001	5396	92.8	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
7.485	0.002	2776	23.84	Benzene
10.095	0.001	2394	23.08	Toluene
12.654	-0.002	2559	22.33	Ethylbenzene
12.800	-0.003	4614	47.62	M/P-Xylene
13.605	0.000	2421	23.85	O-Xylene
5.105	0.005	955	22.75	MTBE

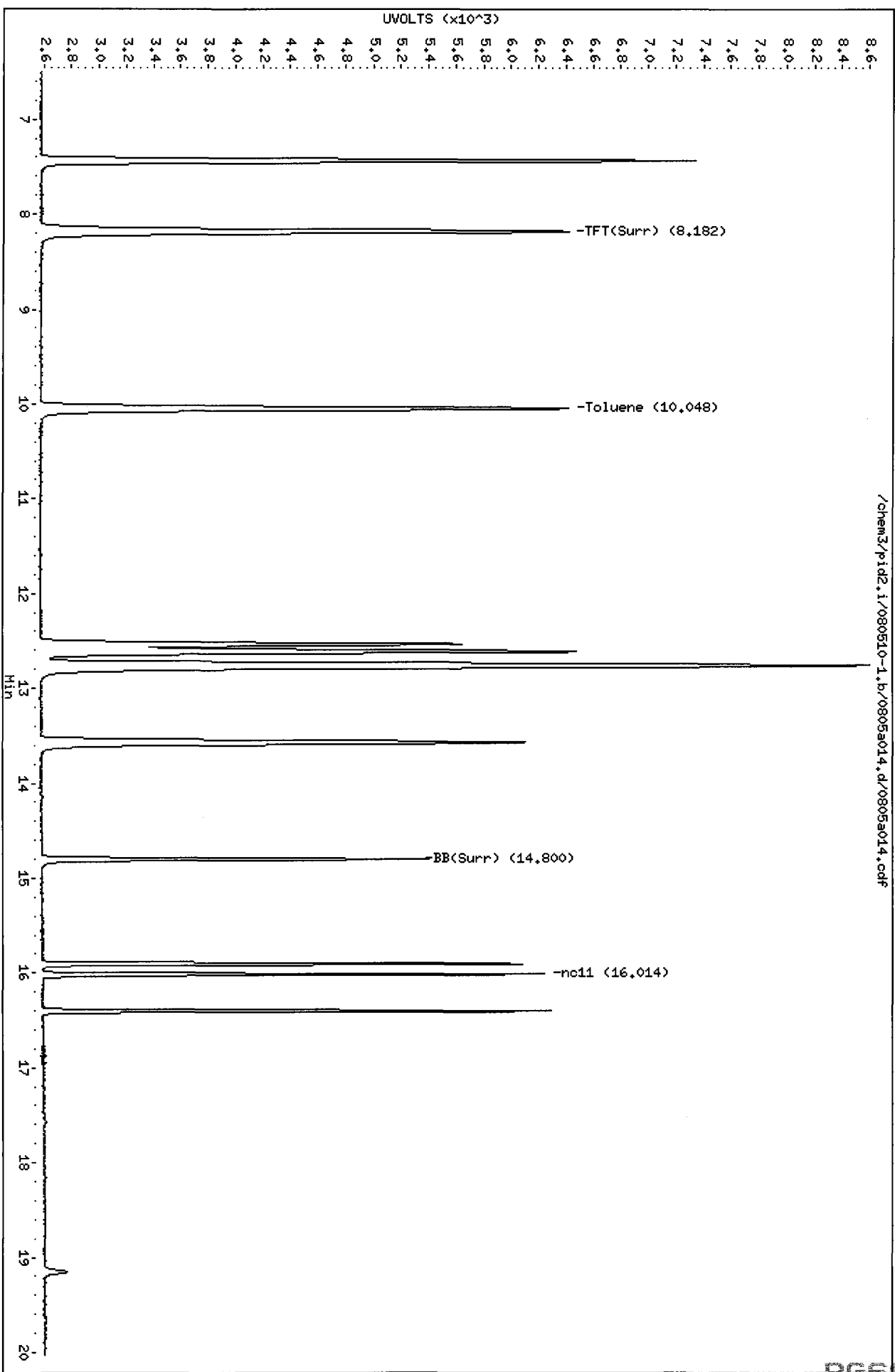
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/080510-1.b/0805a014.d
Date: 05-AUG-2010 13:56

Client ID:
Sample Info: BCAL 2

Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: MH
Column diameter: 0.18

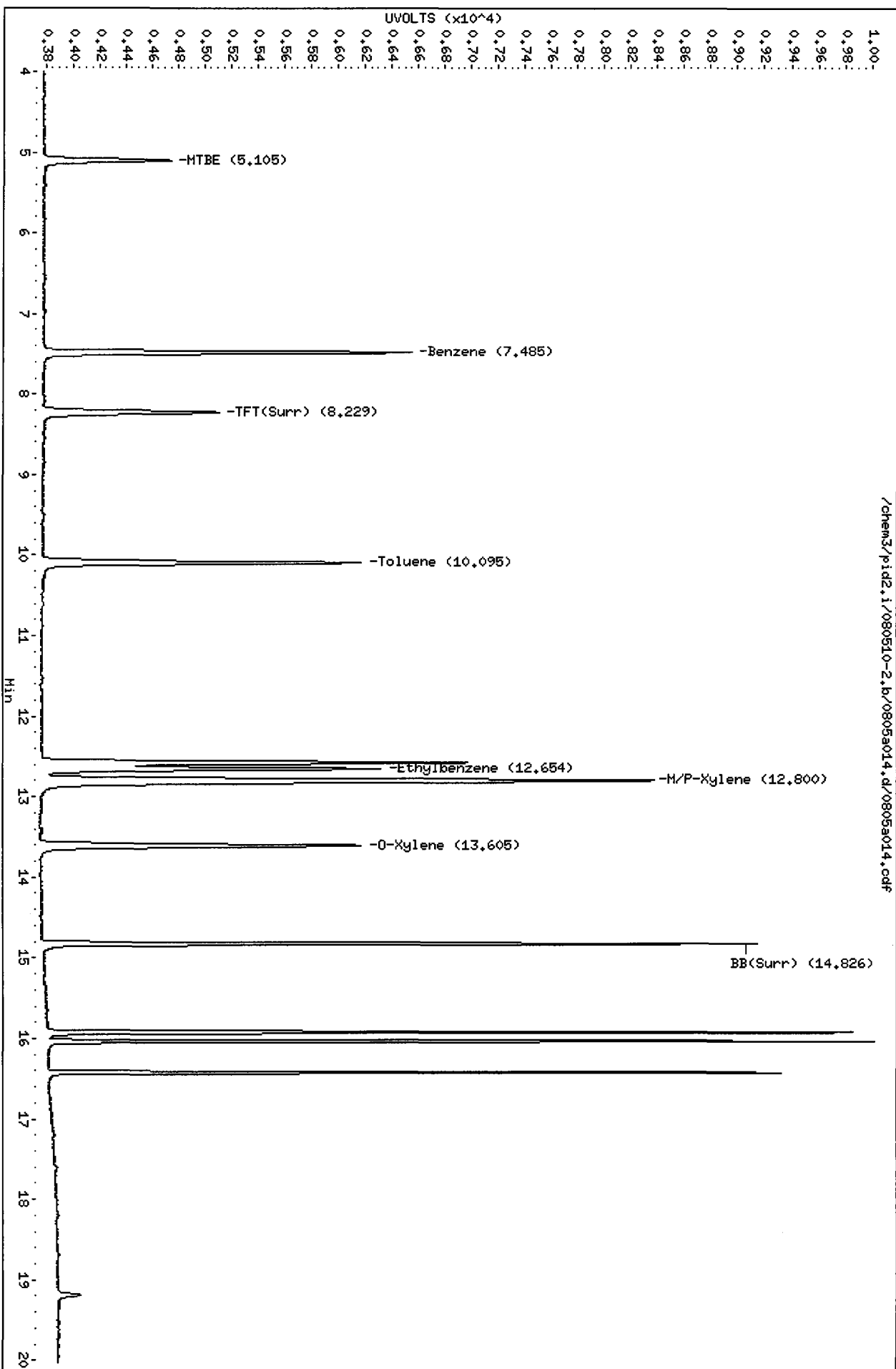


Data File: /chem3/pid2.i/080510-2.b/0805a014.d
Date: 05-AUG-2010 13:56

Client ID:
Sample Info: BCAL 2

Column phase: RTX 502-2 PID

Instrument: pid2.i
Operator: MH
Column diameter: 0.18



/chem3/pid2.i/080510-2.b/0805a014.d/0805a014.cdf

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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/080510-1.b/0805a015.d ARI ID: GCAL 2
Data file 2: /chem3/pid2.i/080510-2.b/0805a015.d Client ID:
Method: /chem3/pid2.i/080510-2.b/PIDB.m Injection Date: 05-AUG-2010 14:22
Instrument: pid2.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 28-JUL-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	-----	-----
8.184	-0.003	4048	67868	97.5	TFT (Surr)
14.800	-0.003	2934	28997	97.2	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
-----	-----	-----
WAGas (Tol-C12)	1397650	2.423
8015B (2MP-TMB)	3191402	2.446
AKGas (nC6-nC10)	2174980	2.446
NWGas (Tol-Nap)	1450054	2.409

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	-----	-----
8.231	0.005	1340	93.2	TFT (Surr)
14.826	0.002	5421	93.2	BB (Surr)

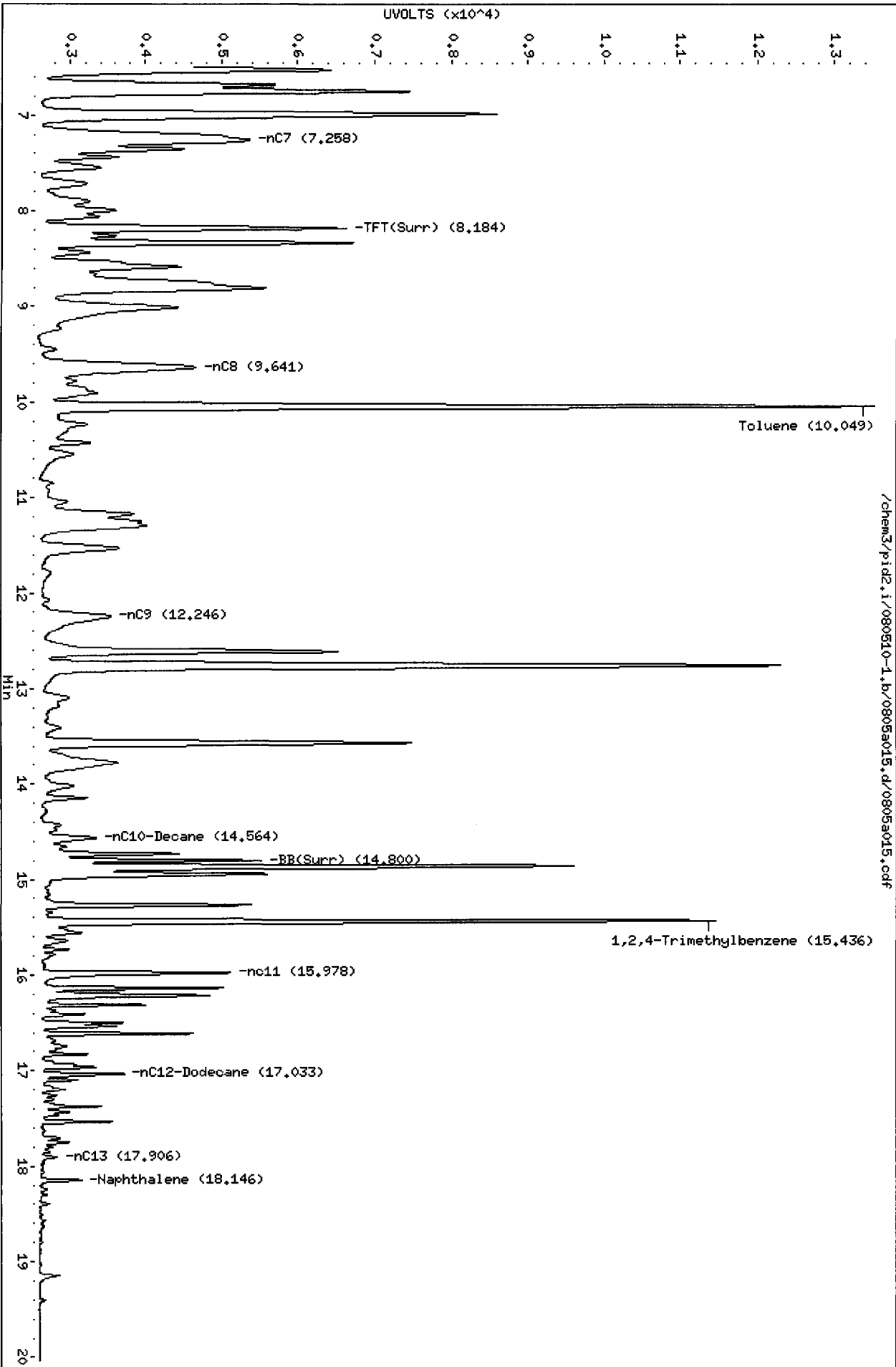
AROMATICS (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
7.488	0.005	564	4.84	Benzene
10.096	0.002	6992	67.41	Toluene
12.655	-0.001	2358	20.57	Ethylbenzene
12.803	0.000	7507	77.47	M/P-Xylene
13.606	0.001	3312	32.62	O-Xylene
5.110	0.010	8696	207.12	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/080510-1.b/0805a015.d
Date : 05-AUG-2010 14:22
Client ID:
Sample Info: GCAL 2
Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: MH
Column diameter: 0.18



/chem3/pid2.i/080510-1.b/0805a015.d/0805a015.cdf

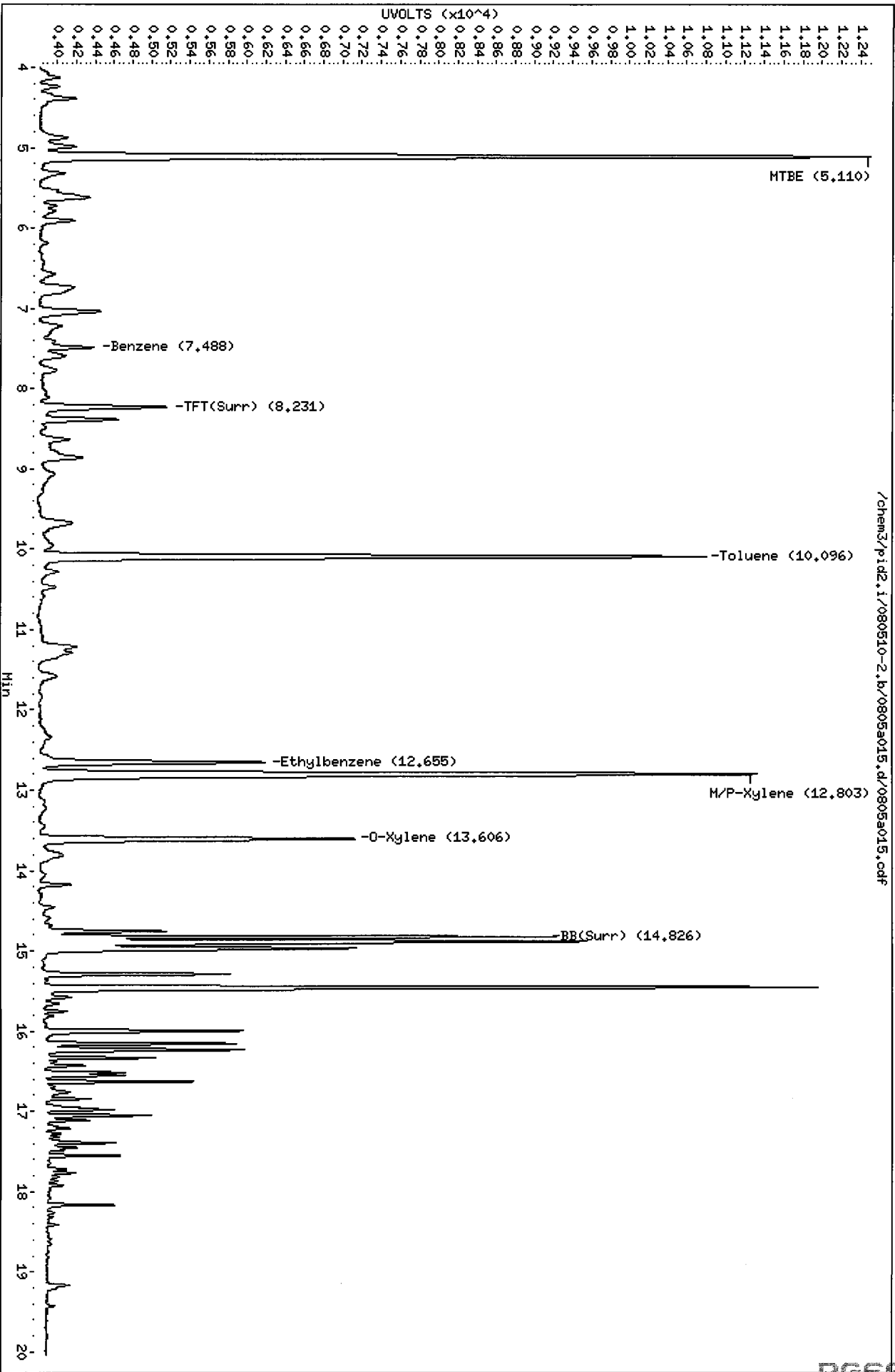
Data File: /chem3/pid2.i/080510-2.b/0805a015.d
Date: 05-AUG-2010 14:22

Client ID:
Sample Info: GCAL 2

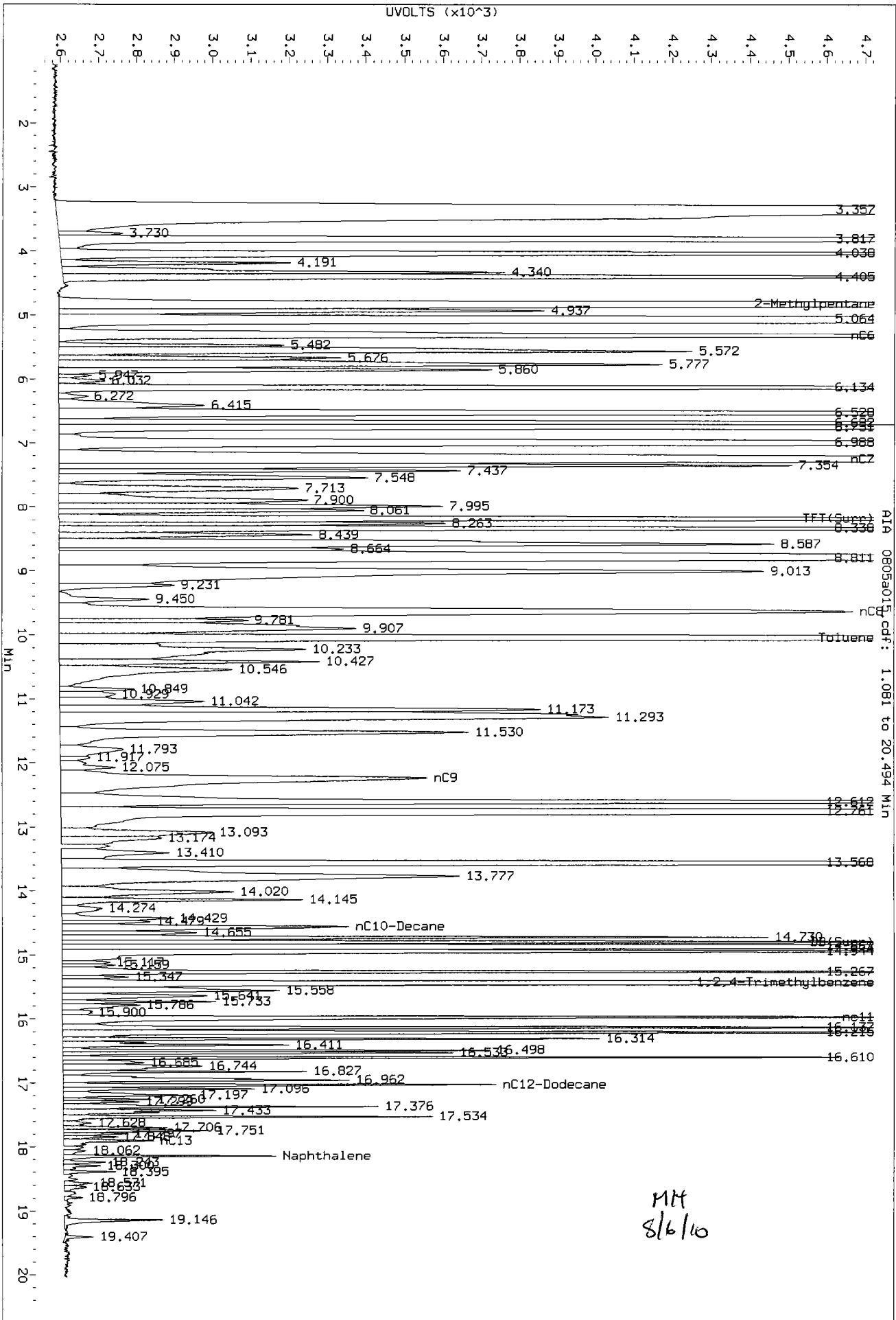
Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: MH
Column diameter: 0.18

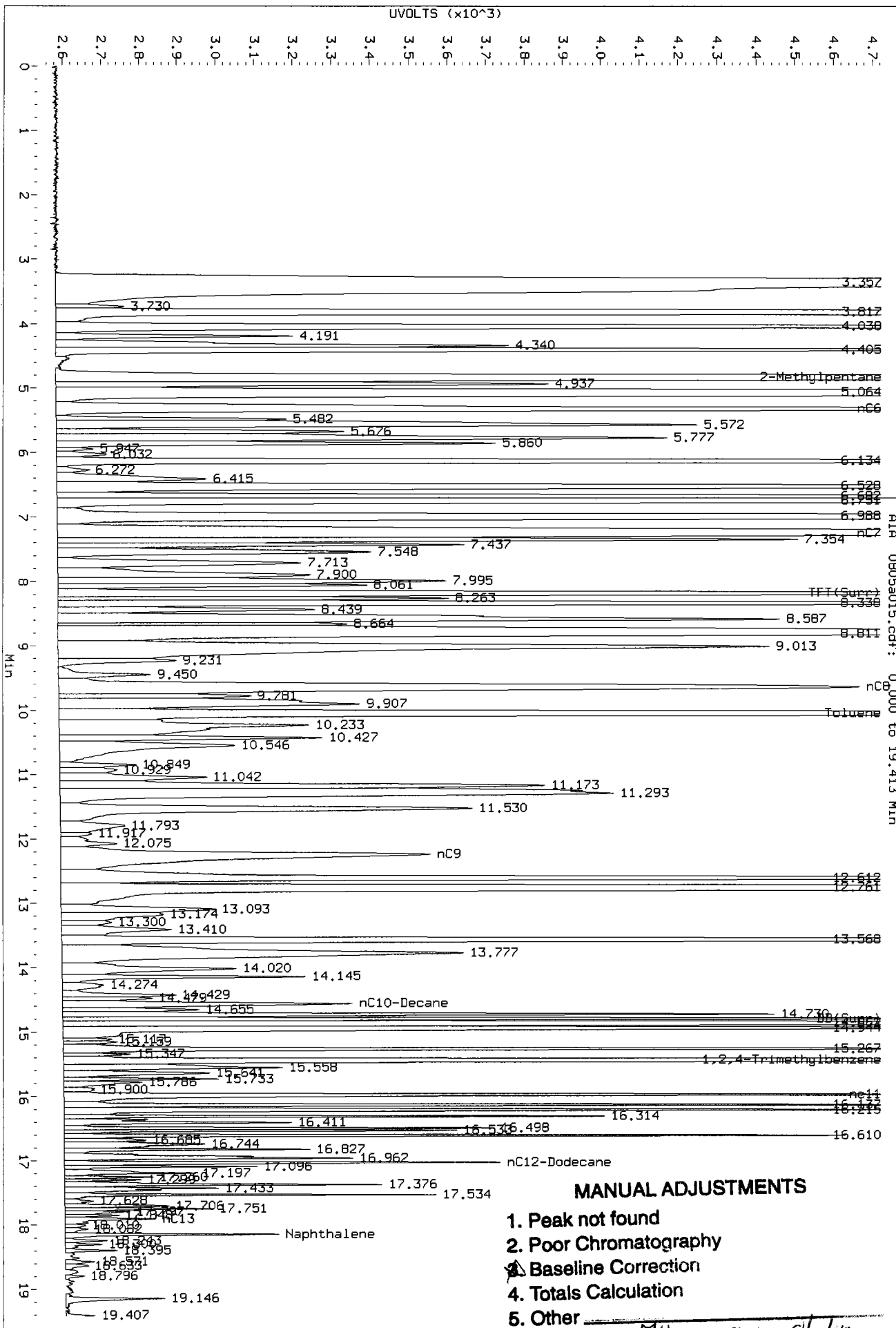


Data File: /chem3/pid2.1/080510-1.b/0805a015.d/0805a015.cdf
 Injection Date: 05-AUG-2010 14:22
 Instrument: pid2.1
 Client Sample ID:



MM
8/6/10

Data File: /chem3/pid2.1/080510-1.b/0805a015.d/0805a015.cdf
 Injection Date: 05-AUG-2010 14:22
 Instrument: pid2.1
 Client Sample ID:



A1A 0805a015.cdf: 0.000 to 19.413 MIN

MANUAL ADJUSTMENTS

- 1. Peak not found
- 2. Poor Chromatography
- 3. Baseline Correction
- 4. Totals Calculation
- 5. Other

Analyst MH Date 8/6/10

8/16/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/080510-1.b/0805a031.d
Data file 2: /chem3/pid2.i/080510-2.b/0805a031.d
Method: /chem3/pid2.i/080510-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 28-JUL-2010

ARI ID: RG60A
Client ID: P5013-C-05-072910 mHs/c/10
Injection Date: 05-AUG-2010 21:18
Matrix: WATER
Dilution Factor: 1.000

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	-----	-----
8.191	0.004	3731	64054	89.9	TFT (Surr)
14.805	0.002	2880	26766	95.4	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
-----	-----	-----
WAGas (Tol-C12)	3837	0.007
8015B (2MP-TMB)	4438	0.003
AKGas (nC6-nC10)	2984	0.003
NWGas (Tol-Nap)	3837	0.006

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	-----	-----
8.239	0.013	1291	89.8	TFT (Surr)
14.831	0.006	5526	95.0	BB (Surr)

AROMATICS (PID)

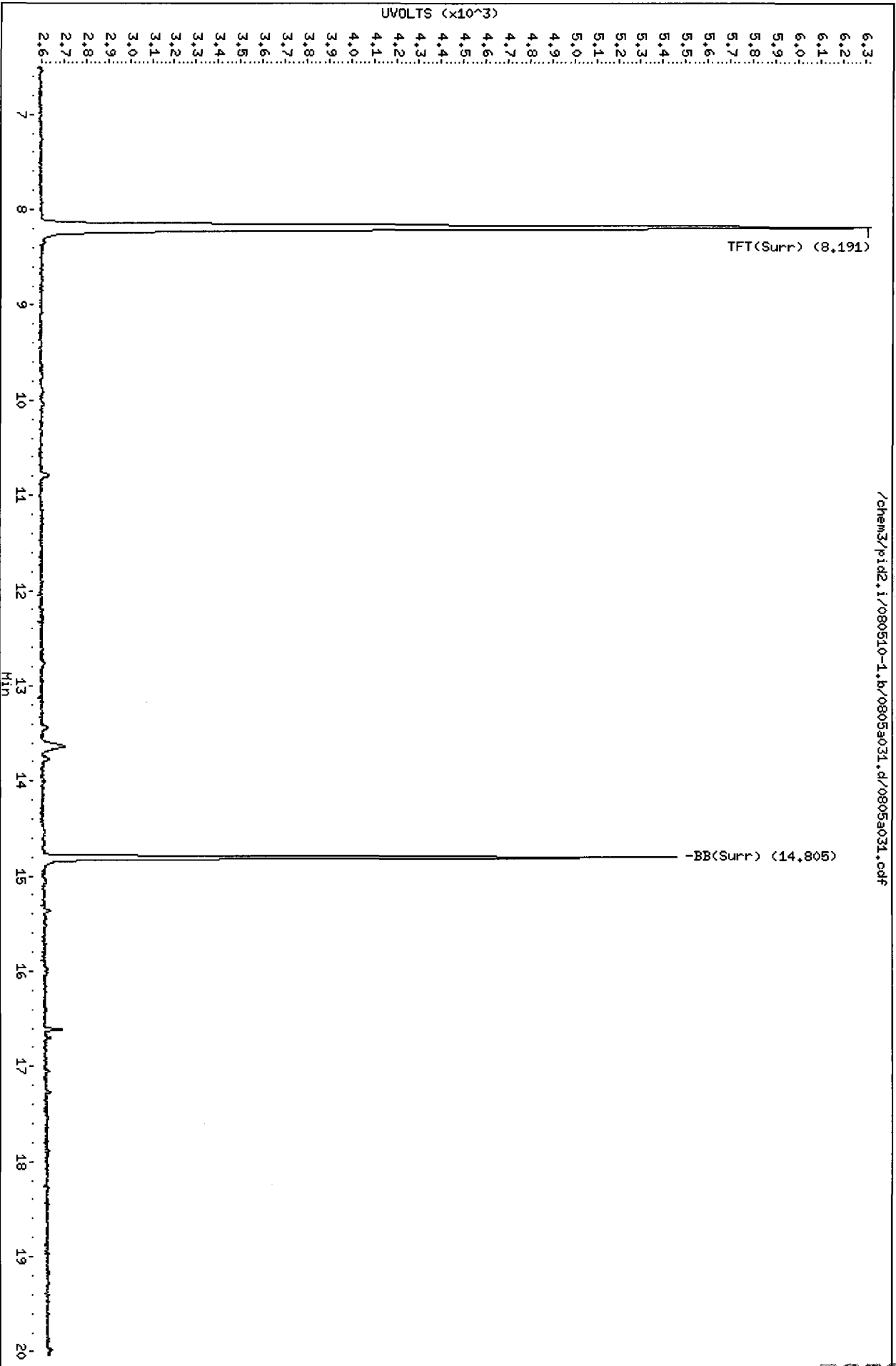
RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/080510-1.b/0805a031.d
Date : 05-AUG-2010 21:18
Client ID:
Sample Info: RG60A

Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: MH
Column diameter: 0.18



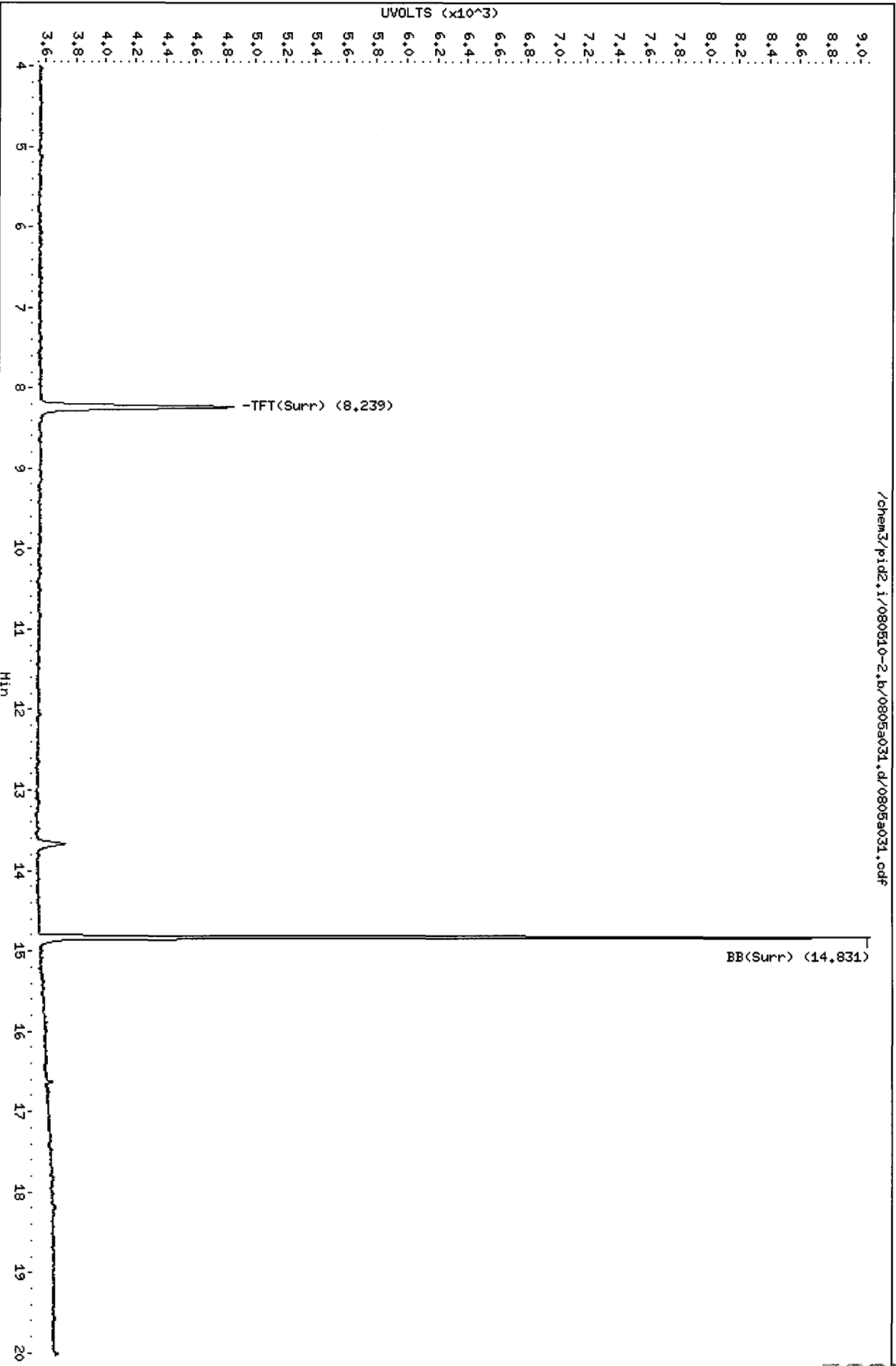
RG60 : 01258

Data File: /chem3/pid2.i/080510-2.b/0805a031.d
Date: 05-AUG-2010 21:18

Client ID:
Sample Info: RG60A

Column phase: RTX 502-2 PID

Instrument: pid2.i
Operator: HH
Column diameter: 0.18



/chem3/pid2.i/080510-2.b/0805a031.d/0805a031.cdf

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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/080510-1.b/0805a033.d
Data file 2: /chem3/pid2.i/080510-2.b/0805a033.d
Method: /chem3/pid2.i/080510-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 28-JUL-2010

ARI ID: BCAL 4
Client ID:
Injection Date: 05-AUG-2010 22:09
Matrix: WATER
Dilution Factor: 1.000

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	-----	-----	-----
8.188	0.001	3820	64477	92.0	TFT(Surr)
14.804	0.002	2928	26855	97.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
-----	-----	-----
WAGas (Tol-C12)	405758	0.703
8015B (2MP-TMB)	418253	0.321
AKGas (nC6-nC10)	384632	0.433
NWGas (Tol-Nap)	405758	0.674

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	-----	-----
8.236	0.011	1312	91.3	TFT(Surr)
14.830	0.006	5573	95.8	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.493	0.010	2711	23.28	Benzene
10.101	0.007	2364	22.79	Toluene
12.660	0.004	2495	21.77	Ethylbenzene
12.807	0.004	4422	45.63	M/P-Xylene
13.611	0.006	2349	23.14	O-Xylene
5.113	0.013	935	22.27	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/080510-1.b/0805a033.d
Date: 05-AUG-2010 22:09

Client ID:

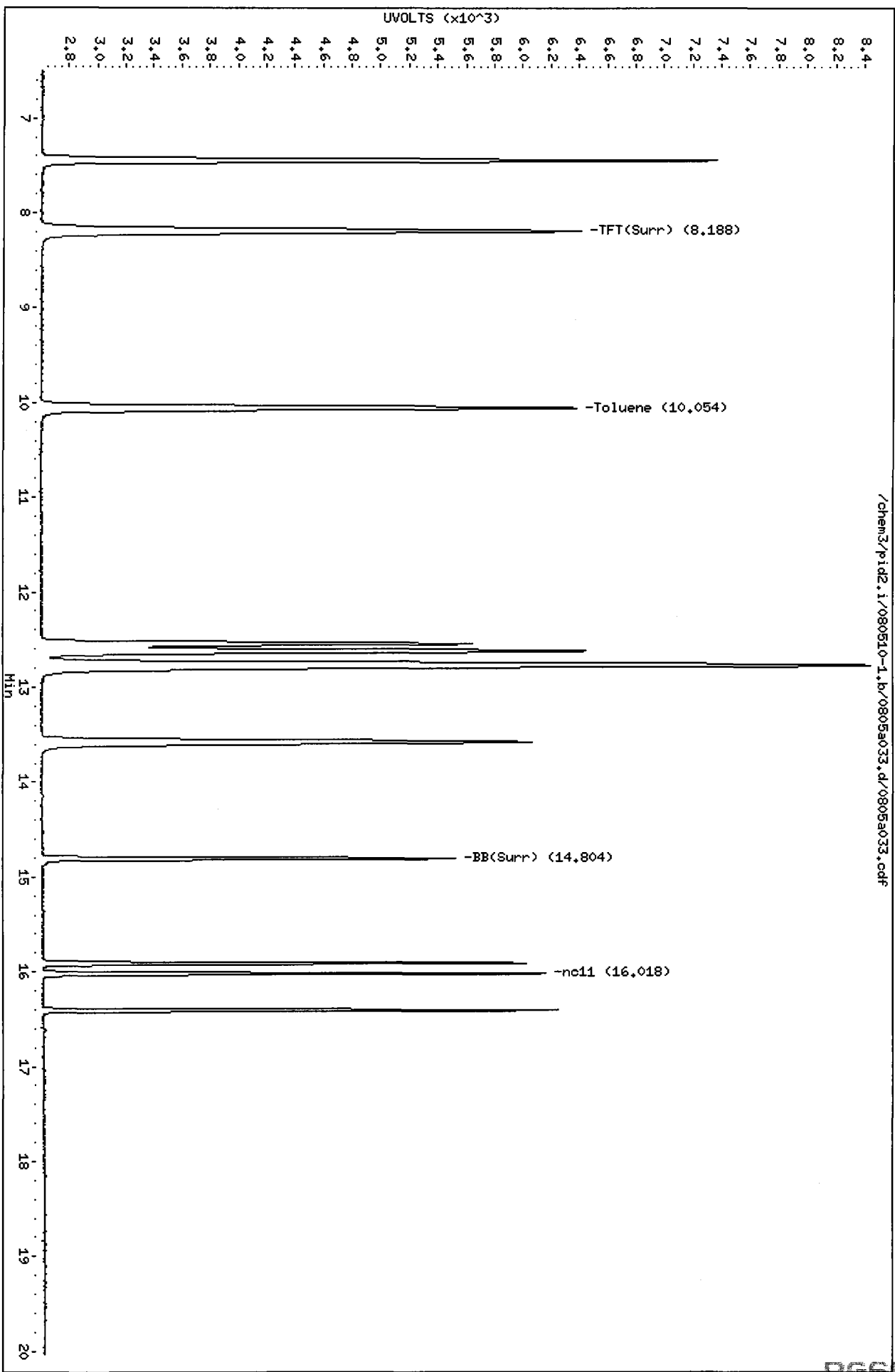
Sample Info: BCAL 4

Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: HH

Column diameter: 0.18

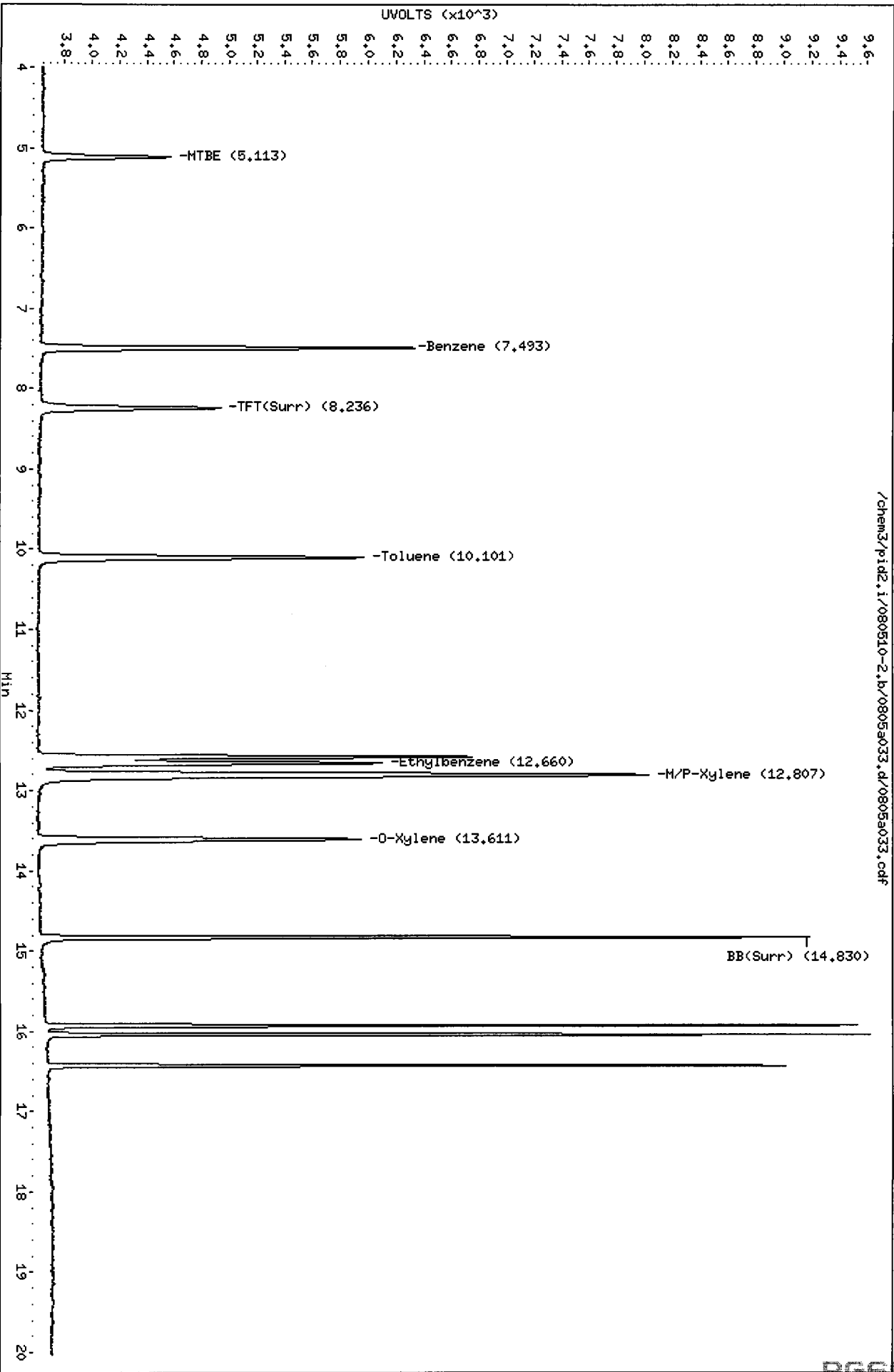


Data File: /chem3/pid2.i/080510-2.b/0805a033.d
Date: 05-AUG-2010 22:09
Client ID:
Sample Info: BCAL 4

Column phase: RTX 502-2 PID

Instrument: pid2.i
Operator: HH
Column diameter: 0.18

/chem3/pid2.i/080510-2.b/0805a033.d/0805a033.cdf



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8/6/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/080510-1.b/0805a034.d
Data file 2: /chem3/pid2.i/080510-2.b/0805a034.d
Method: /chem3/pid2.i/080510-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 28-JUL-2010

ARI ID: GCAL 4
Client ID:
Injection Date: 05-AUG-2010 22:35
Matrix: WATER
Dilution Factor: 1.000

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	-----	-----
8.186	-0.001	4097	68500	98.7	TFT(Surr)
14.801	-0.001	3071	29603	101.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
-----	-----	-----
WAGas (Tol-C12)	1310244	2.271
8015B (2MP-TMB)	2899900	2.222
AKGas (nC6-nC10)	1939518	2.181
NWGas (Tol-Nap)	1357790	2.256

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	-----	-----
8.234	0.009	1346	93.7	TFT(Surr)
14.828	0.004	5631	96.8	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
7.492	0.008	561	4.82	Benzene
10.098	0.005	6865	66.19	Toluene
12.658	0.002	2296	20.03	Ethylbenzene
12.805	0.002	7404	76.41	M/P-Xylene
13.608	0.003	3259	32.10	O-Xylene
5.116	0.016	8695	207.09	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

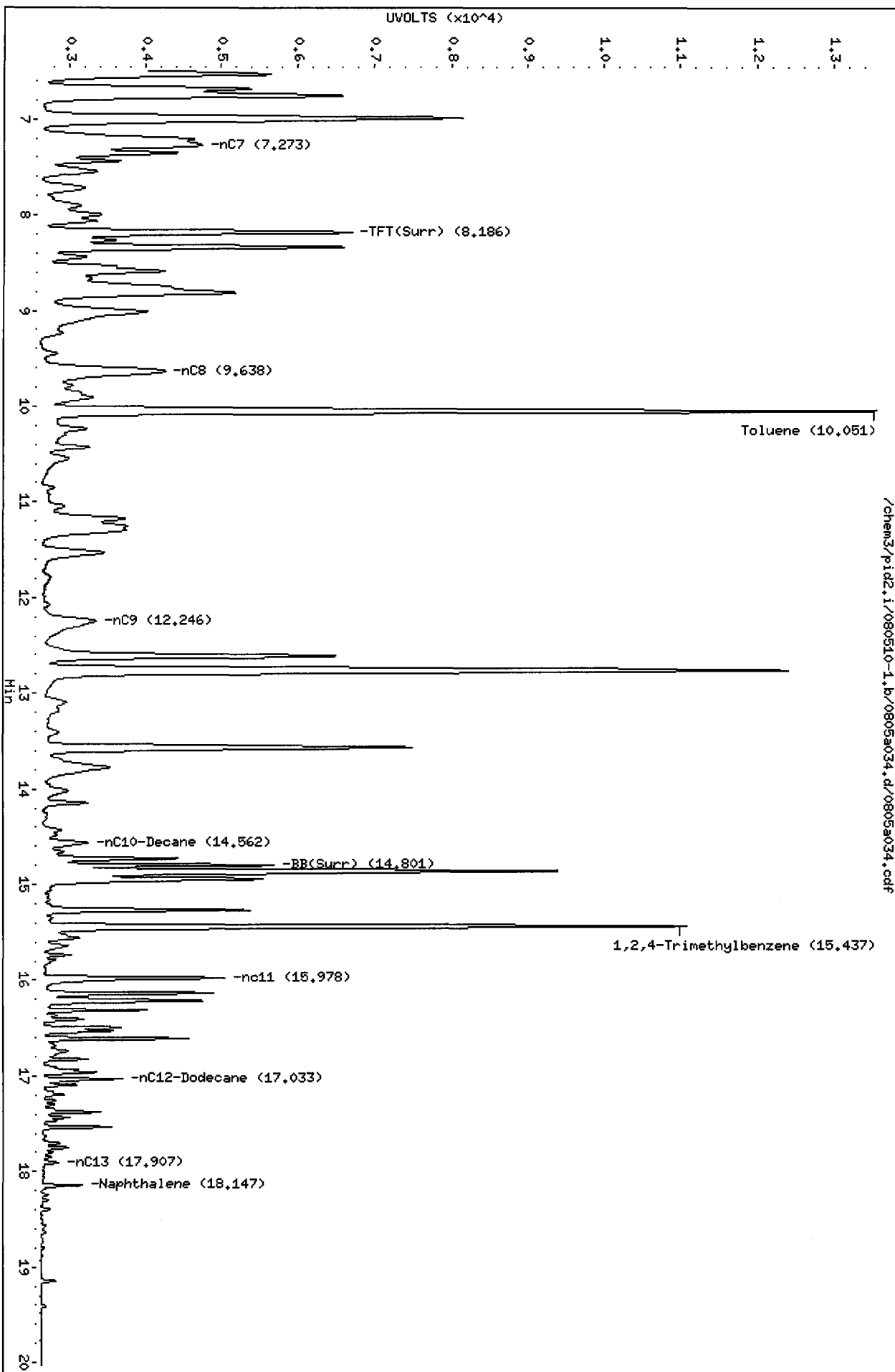
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Date: 05-AUG-2010 22:35

Client ID:

Sample Info: GCAL 4

Column phase: RTX 502-2 FID

Instrument: pid2.i
Operator: HH
Column diameter: 0.18

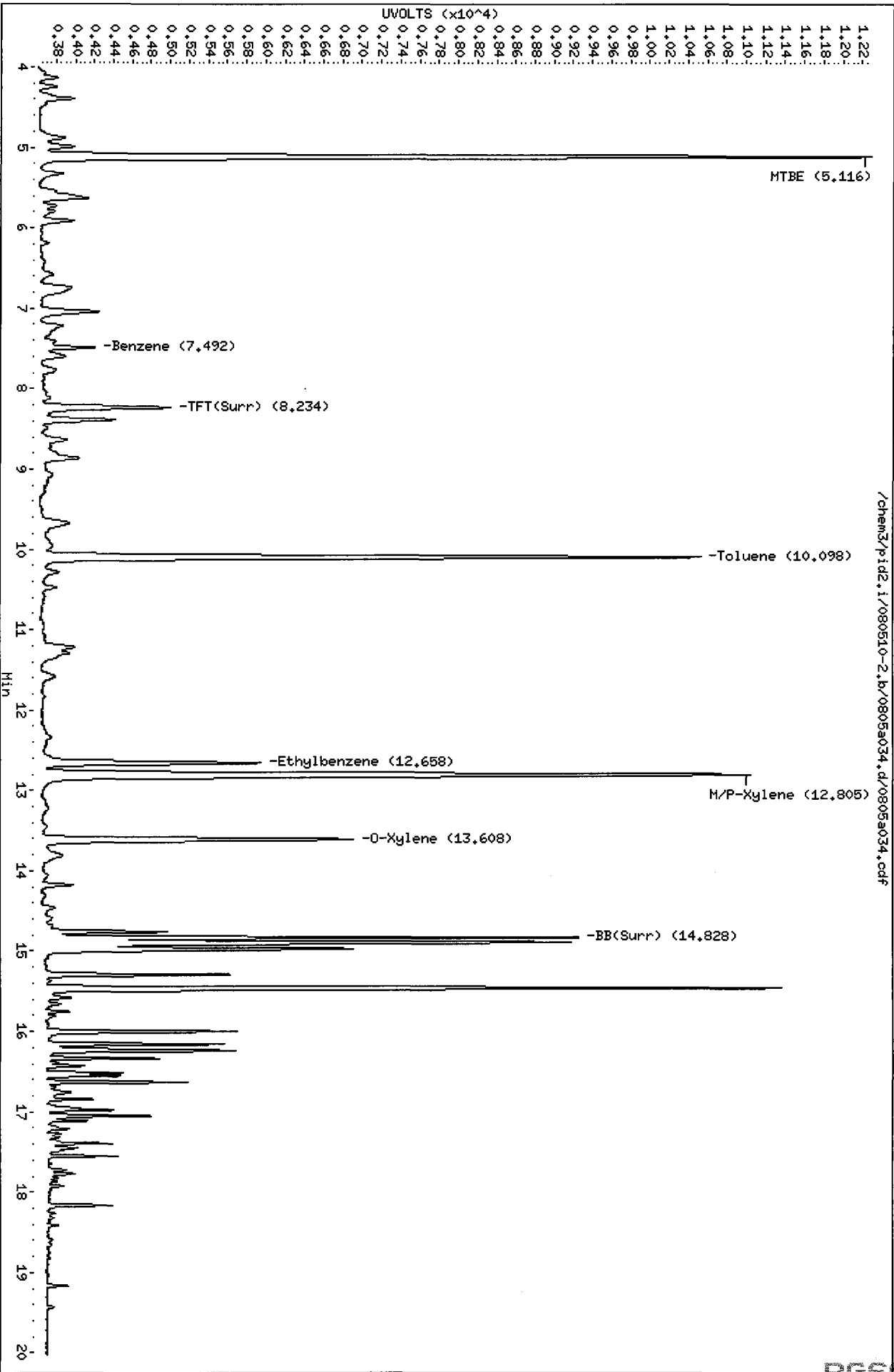


/chem3/pid2.i/080510-1.b/0805a034.d/0805a034.cdf

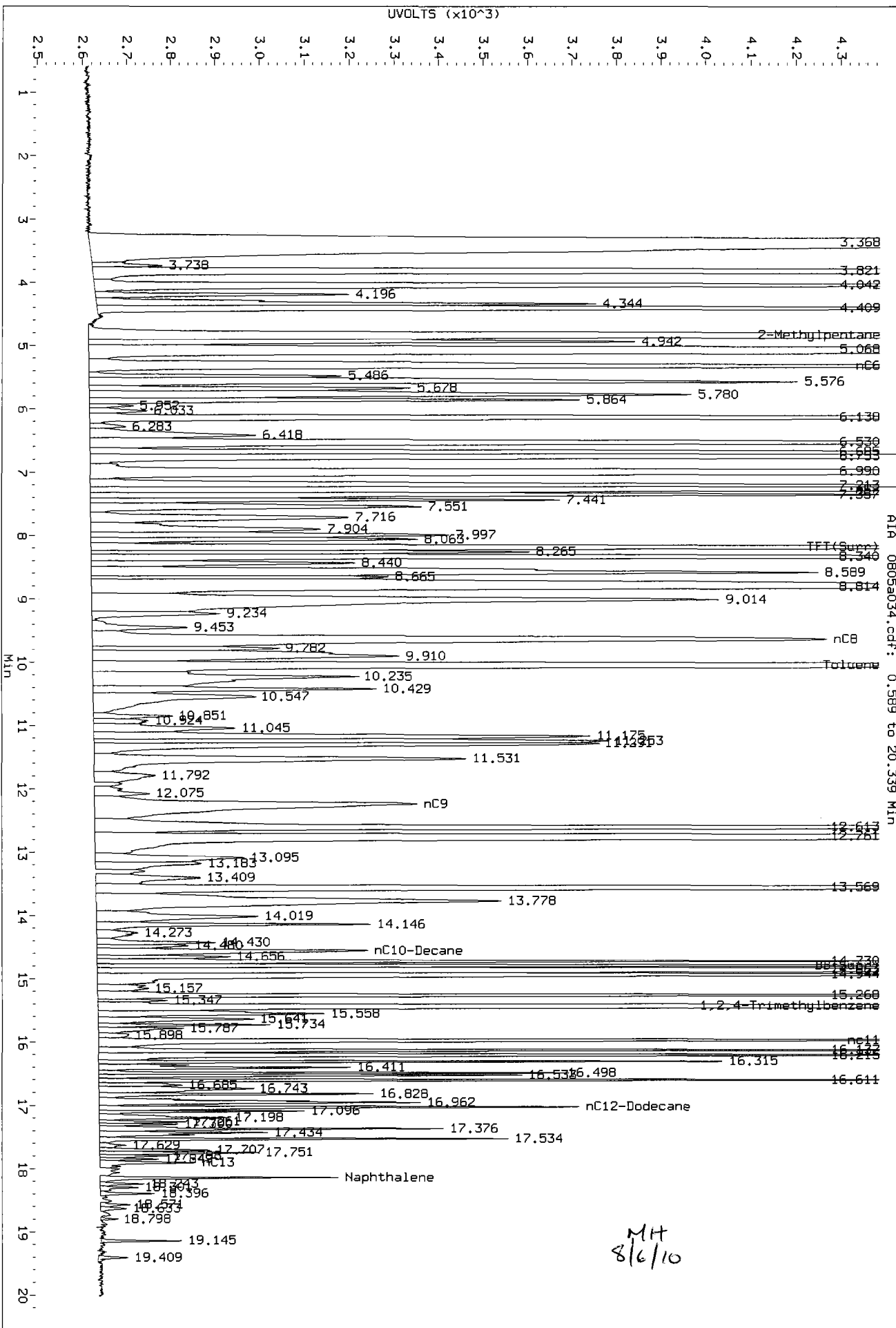
Data File: /chem3/pid2.i/080510-2.b/0805a034.d
Date: 05-AUG-2010 22:35
Client ID:
Sample Info: GCAL 4

Column phase: RTX 502-2 PID

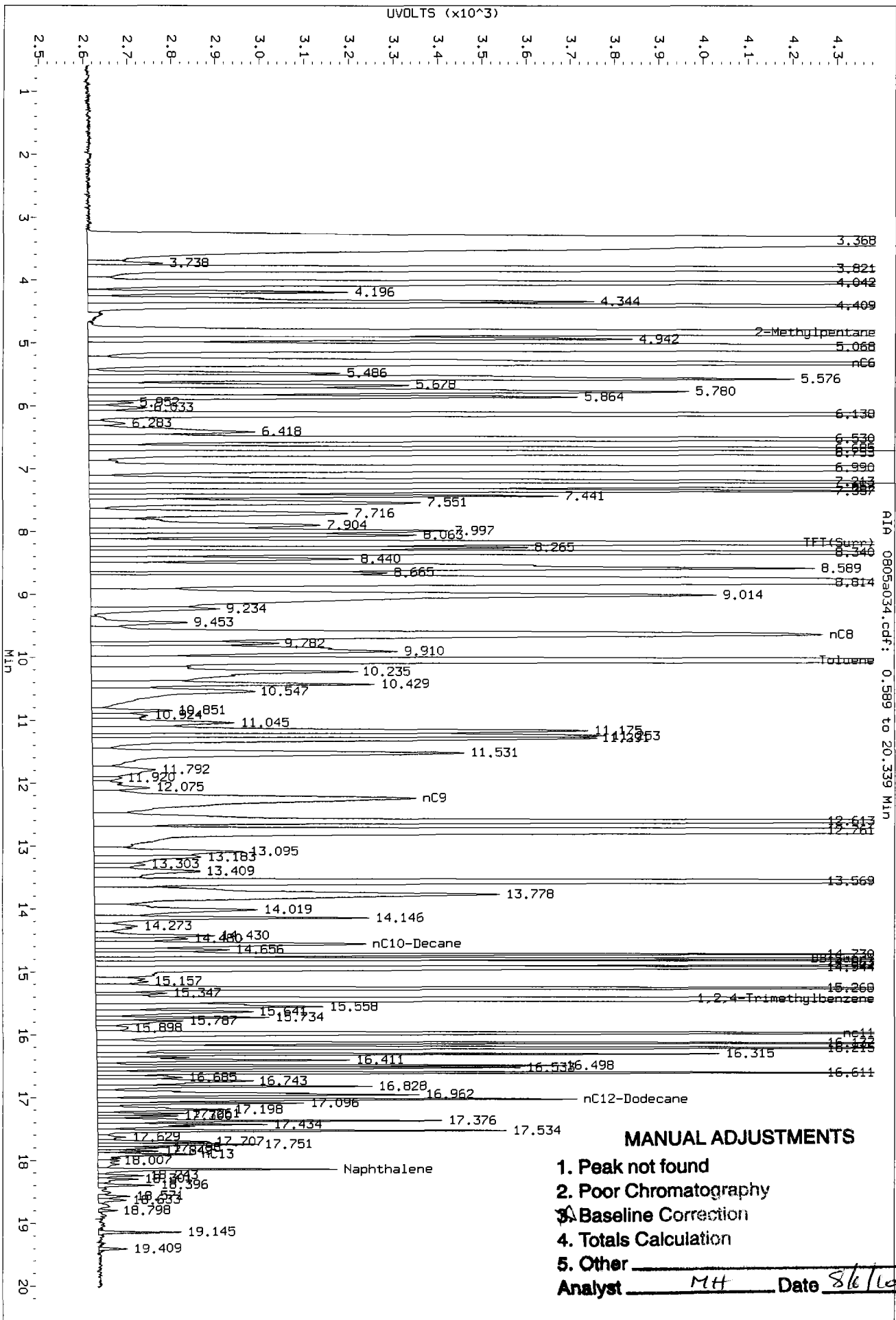
Instrument: pid2.i
Operator: MH
Column diameter: 0.18



Data File: /chem3/pid2.1/080510-1.b/0805a034.d/0805a034.cdf
Injection Date: 05-AUG-2010 22:35
Instrument: pid2.1
Client Sample ID:



Data File: /chem3/pid2.1/080510-1.b/0805a034.d/0805a034.cdf
 Injection Date: 05-AUG-2010 22:35
 Instrument: pid2.1
 Client Sample ID:



MANUAL ADJUSTMENTS

1. Peak not found
2. Poor Chromatography
3. Baseline Correction
4. Totals Calculation
5. Other

Analyst MH Date 8/6/10

Analytical Resources Inc.: Organics Instrument Log

PID-2 Serial No.: 33033A-33620

Date: 8/5/10 Analysis: NWTPH6/BETA Analyst: MH

GC Program: BETA1 Column No: 832217 Column Type: _____

Instrument Tune (.U or .CT.): _____ EM Voltage: _____

Calibration File: _____ Curve Date: 7/28/10

IS/SS	Ical/Ccal	LCS/ICV
<u>VW632-3</u>	<u>VW635-1</u>	<u>VW647-2</u>
_____	<u>VW644-3</u>	_____
_____	<u>VW647-2</u>	_____
_____	_____	_____
_____	_____	_____

Time	Filename	LabID	ClientID	Vial#	pH	DF						
1	0751	0805a001.d	RINSE			1	23	1750	0805a023.d	RG79M	PSB15-2-4-073010	0.00
2	0817	0805a002.d	RT+BCAL 1			1	24	1816	0805a024.d	RG79N	PSB15-4-6-073010	0.00
3	0843	0805a003.d	GCAL 1			1	25	1842	0805a025.d	RINSE		1
4	0909	0805a004.d	LCS0805			1	26	1908	0805a026.d	BCAL 3		1
5	0935	0805a005.d	LCSD0805			1	27	1934	0805a027.d	GCAL 3		1
6	1001	0805a006.d	MB0805			1	28	2000	0805a028.d	RG79O	PSB15-13-15-073010	0.00
7	1054	0805a007.d	RG79J	PSB11-TB		1	29	2026	0805a029.d	RG79P	PSB15-17-19-073010	0.00
8	1120	0805a008.d	RG79S	FB15-TB		1	30	2052	0805a030.d	RG79Q	PSB15-17-19-073010-	0.00
9	1146	0805a009.d	RG79A	PSB11-0-0.5-073010		0.00	31	2118	0805a031.d	RG60A		1
10	1212	0805a010.d	RG79B	PSB11-1.5-2-073010		0.00	32	2144	0805a032.d	RINSE		1
11	1238	0805a011.d	RG79C <u>0/6?</u>	PSB11-2-4-073010		0.00	33	2209	0805a033.d	BCAL 4		1
12	1304	0805a012.d	RG79D	PSB11-2-4-073010-D		0.00	34	2235	0805a034.d	GCAL 4		1
13	1330	0805a013.d	RINSE			1						
14	1356	0805a014.d	BCAL 2			1						
15	1422	0805a015.d	GCAL 2			1						
16	1448	0805a016.d	RG79E	PSB11-4-6-073010		0.00						
17	1514	0805a017.d	RG79EMS	PSB11-4-6-07301 MS		0.00						
18	1540	0805a018.d	RG79EMSD	PSB11-4-6-07301 MSD		0.00						
19	1606	0805a019.d	RG79G	PSB11-11-13-073010		0.00						
20	1632	0805a020.d	RG79H	PSB11-14-16-073010		0.00						
21	1658	0805a021.d	RG79K	PSB15-0-0.5-073010		0.00						
22	1724	0805a022.d	RG79L	PSB15-1.5-2-073010		0.00						

[Handwritten signature]
 MH
 8/6/10

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):

Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.



VOA Analyst Notes / Corrective Action Log

ARI Project ID: RG60 Client ID: Floyd / Snyder

ARI SOP: 404S(Gas) 410S(BTEX) 430S(VPH) 700S(8260C) 703S(SIM) 706S(524.2) 710S(RSK-175)

Parameter(s): NWTPHC

Instrument: NT-3 NT-5 NT-7 NT-9 NT-10 PID-1 PID-2 PID-3 FID-6 FINN-5

Purge Volume (mL) S Curve Date: 6/29/10 BETX
7/29/10 GC5 Analysis Start Date: 8/3/10

pH ≤ 2.0 YES / NO NA Method Blank In Control? YES / NO

BFB Tune Meets Criteria? YES / NO NA LCS / LCSD Recovery In Control? YES / NO

Internal Standard Meets Criteria? YES / NO NA Surrogate Recovery In Control? YES / NO

ICal acceptable? YES / NO CCal acceptable? YES / NO
Q flag applied? YES / NO NA Q flag applied? YES / NO NA

Manual Integrations for ICal? YES ~~NO~~ Manual Integrations for Samples? Yes NO

Special Analysis Criteria Met? YES / NO NA

Bubbles/Headspace: None SM (≤ 2mm ●) PB (2-4mm) LG (> 4mm ●) Head Space

Detail problems, corrective actions and/or other pertinent information below (use reverse side when necessary):

Samples B, C, D, E & F peak at about 13.7xx ~~to~~ close to o-xylene RT. But is not o-xylene can refer to ~~8260c~~ 8260c data.

Additional Details on Reverse: Yes / No

Analyst: [Signature] Date: 8/6/10

Reviewer: _____ Date: _____

Analytical Resources Inc.: Organics Instrument Log

PID-3 HP 5890 Series II - Serial No.: 2728A-13336

Date: 8/3/10 Analysis: NWTP46/BETA Analyst: MH
 GC Program: BETA Column No: 832213 Column Type: RTX502-2
 Instrument Tune (.U or .CT.): _____ EM Voltage: _____
 Calibration File: _____ Curve Date: 7/28/10 6:5
6/29/10 BETA

IS/SS	Ical/Ccal	LCS/ICV
<u>VW 632-3</u>	<u>VW 635-1</u>	<u>VW 647-2</u>
	<u>VW 644-3</u>	
	<u>VW 647-2</u>	

Time	Filename	LabID	ClientID	Vial#	pH	DF
1	0708	0803a001.d	RINSE			1
2	0732	0803a002.d	RT+BCAL 1			1
3	0757	0803a003.d	GCAL 1			1
4	0821	0803a004.d	LCS0803			1
5	0846	0803a005.d	LCSD0803			1
6	0910	0803a006.d	MB0803			1
7	1005	0803a007.d	RG54G	PSB14-TB		1
8	1030	0803a008.d	RG60G	PSB13-TB		1
9	1054	0803a009.d	RG60A	PSB13-0-0.5-072910	0.00	
10	1119	0803a010.d	RG60B	PSB13-1.5-2-072910	0.00	
11	1143	0803a011.d	RG60C	PSB13-2-4-072910	0.00	
12	1208	0803a012.d	RG60D	PSB13-4-6-072910	0.00	
13	1232	0803a013.d	RINSE			1
14	1256	0803a014.d	BCAL 2			1
15	1320	0803a015.d	GCAL 2			1
16	1345	0803a016.d	RG60E	PSB13-11-13-072910	0.00	
17	1410	0803a017.d	RG60F	PSB13-14.5-16.5-072	0.00	
18	1435	0803a018.d	RG54A	PSB14-0-.5-072810	0.00	
19	1459	0803a019.d	RG54B	PSB14-1.5-2.0-07281	0.00	
20	1524	0803a020.d	RG54C	PSB14-2-4-072810	0.00	
21	1548	0803a021.d	RG54E	PSB14-7-9-072810	0.00	
22	1613	0803a022.d	RG54F	PSB14-12-14-072810	0.00	
23	1637	0803a023.d	RG54FMS			1
24	1702	0803a024.d	RG54FMSD			1
25	1727	0803a025.d	RINSE			1
26	1751	0803a026.d	BCAL3			1
27	1816	0803a027.d	GCAL 3			1
28	1840	0803a028.d	RG54H	PSB17-0-0.5-072810	0.00	
29	1904	0803a029.d	RG54I	PSB17-1.5-2-072810	0.00	
30	1929	0803a030.d	RG54J	PSB17-2-4-072810	0.00	
31	1954	0803a031.d	RG54K	PSB17-4-6-072810	0.00	
32	2018	0803a032.d	RG54L	PSB17-10-13-072810	0.00	
33	2043	0803a033.d	RINSE			1
34	2108	0803a034.d	BCAL 4			1
35	2132	0803a035.d	GCAL 4			1

MH
8/5/10

Maintenance / Comments

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control):
 Every line must contain information or be lined out. Make all entries legible. Start a new page for each QC period.

1/15/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100803-2.b/0803a002.d ARI ID: RT+BCAL 1
Data file 2: /chem3/pid3.i/20100803-1.b/0803a002.d Client ID: RT+BCAL 1
Method: /chem3/pid3.i/20100803-1.b/PIDB.m Injection Date: 03-AUG-2010 07:32
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	----	----	-----
8.408	-0.035	7429	87387	103.2	TFT(Surr)
14.888	-0.025	4327	35599	100.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (10.21 to 17.12)	827807	1067809	1.290
8015B 2MP-TMB (4.94 to 15.60)	1664107	1323007	0.795
AK101 nC6-nC10 (5.43 to 14.51)	1131784	927489	0.819
NWTPHG Tol-Nap (10.21 to 18.19)	882029	1127350	1.278

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
8.407	0.000	21502	97.8	TFT(Surr)
14.886	0.000	44002	96.5	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.688	0.000	33920	25.66	Benzene
10.271	0.000	33570	25.44	Toluene
12.805	0.000	30736	24.73	Ethylbenzene
12.942	0.000	67291	49.97	M/P-Xylene
13.724	0.000	32001	24.91	O-Xylene
5.288	0.000	9362	26.31	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100803-2.b/0803a002.d
Date: 03-AUG-2010 07:32
Client ID:
Sample Info: RT+BCAL 1

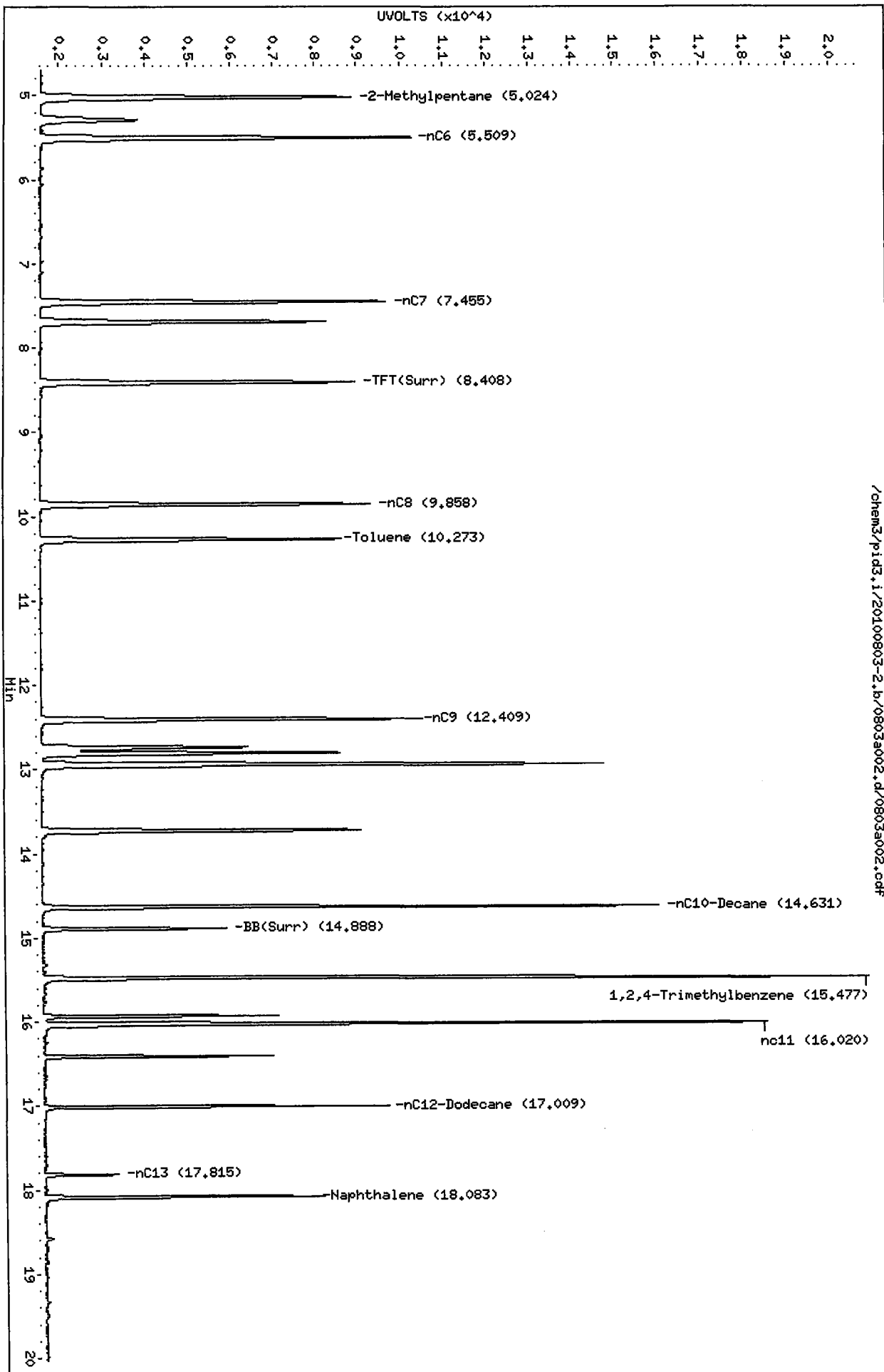
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

/chem3/pid3.i/20100803-2.b/0803a002.d/0803a002.cdf



Data File: /chem3/pid3.i/20100803-1.b/0803a002.d

Date: 03-AUG-2010 07:32

Client ID: RT+BCAL 1

Sample Info: RT+BCAL 1

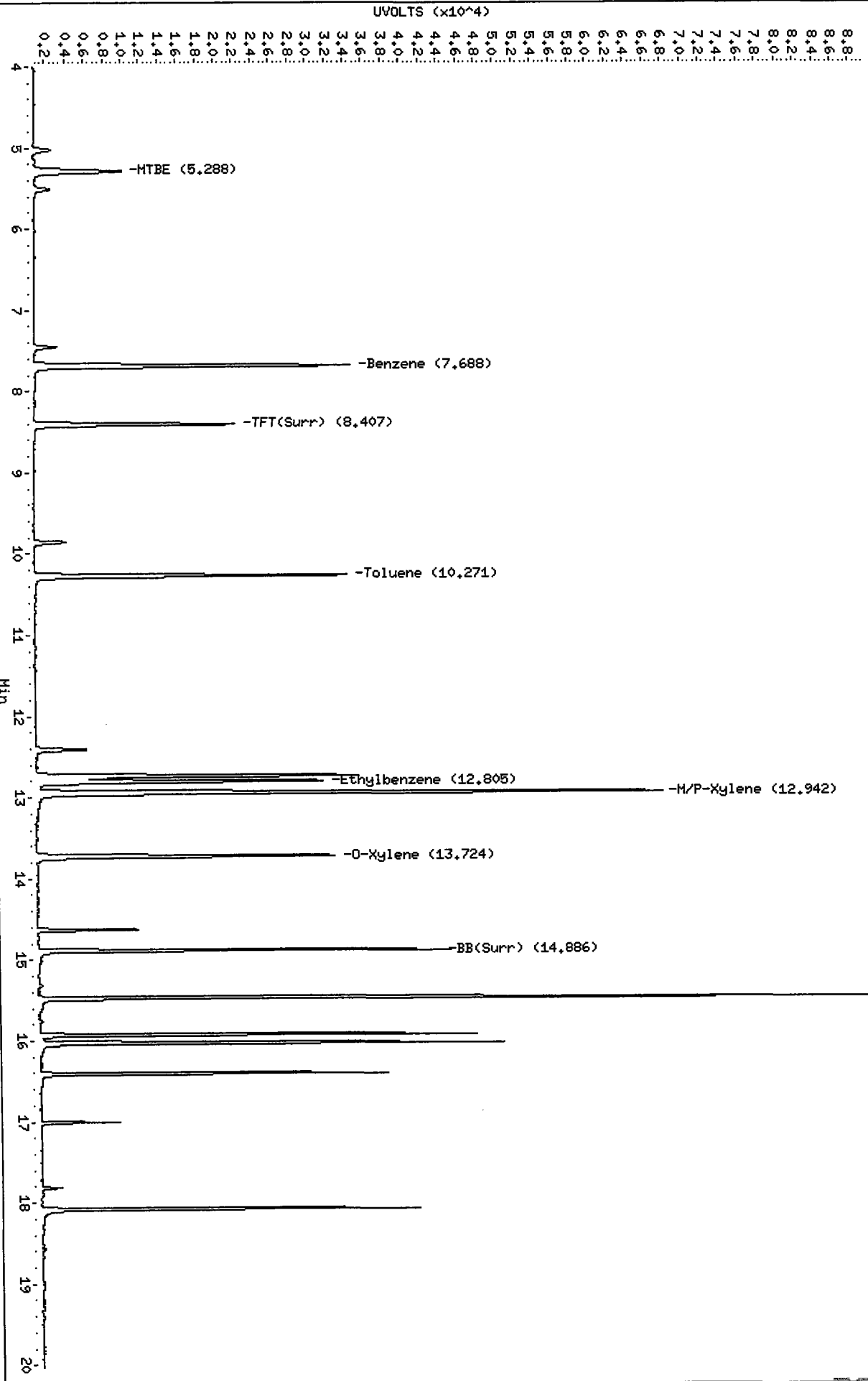
Instrument: pid3.i

Operator: HH

Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem3/pid3.i/20100803-1.b/0803a002.d/0803a002.cdf



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8/5/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100803-2.b/0803a003.d ARI ID: GCAL 1
Data file 2: /chem3/pid3.i/20100803-1.b/0803a003.d Client ID:
Method: /chem3/pid3.i/20100803-1.b/PIDB.m Injection Date: 03-AUG-2010 07:57
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.427	0.018	7874	93670	109.4	TFT (Surr)
14.901	0.014	4587	37366	106.5	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	2059882	2.488 M
8015B 2MP-TMB (4.92 to 15.58)	1664107	4090267	2.458 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	2749760	2.430 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	2190146	2.483 M

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.425	0.017	22816	103.8	TFT (Surr)
14.899	0.013	45787	100.4	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.704	0.016	7312	5.53	Benzene
10.291	0.020	99034	75.04	Toluene
12.824	0.020	28689	23.09	Ethylbenzene
12.965	0.023	110466	82.03	M/P-Xylene
13.742	0.018	45267	35.23	O-Xylene
5.301	0.013	82461	231.76	MTBE

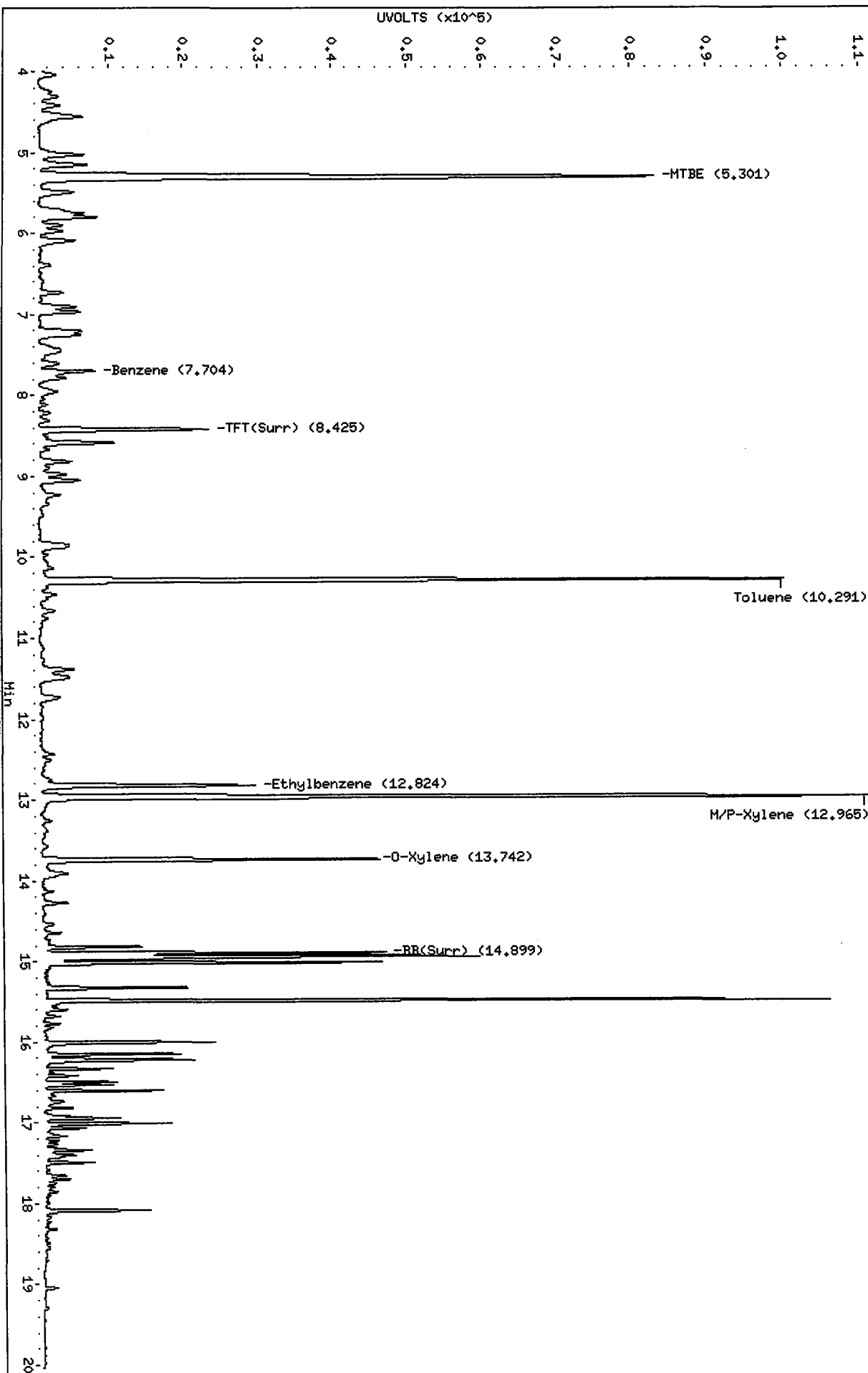
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100803-1.b/0803a003.d
Date : 03-AUG-2010 07:57
Client ID:
Sample Info: GCAL 1

Column phase: RTX 502-2 PID

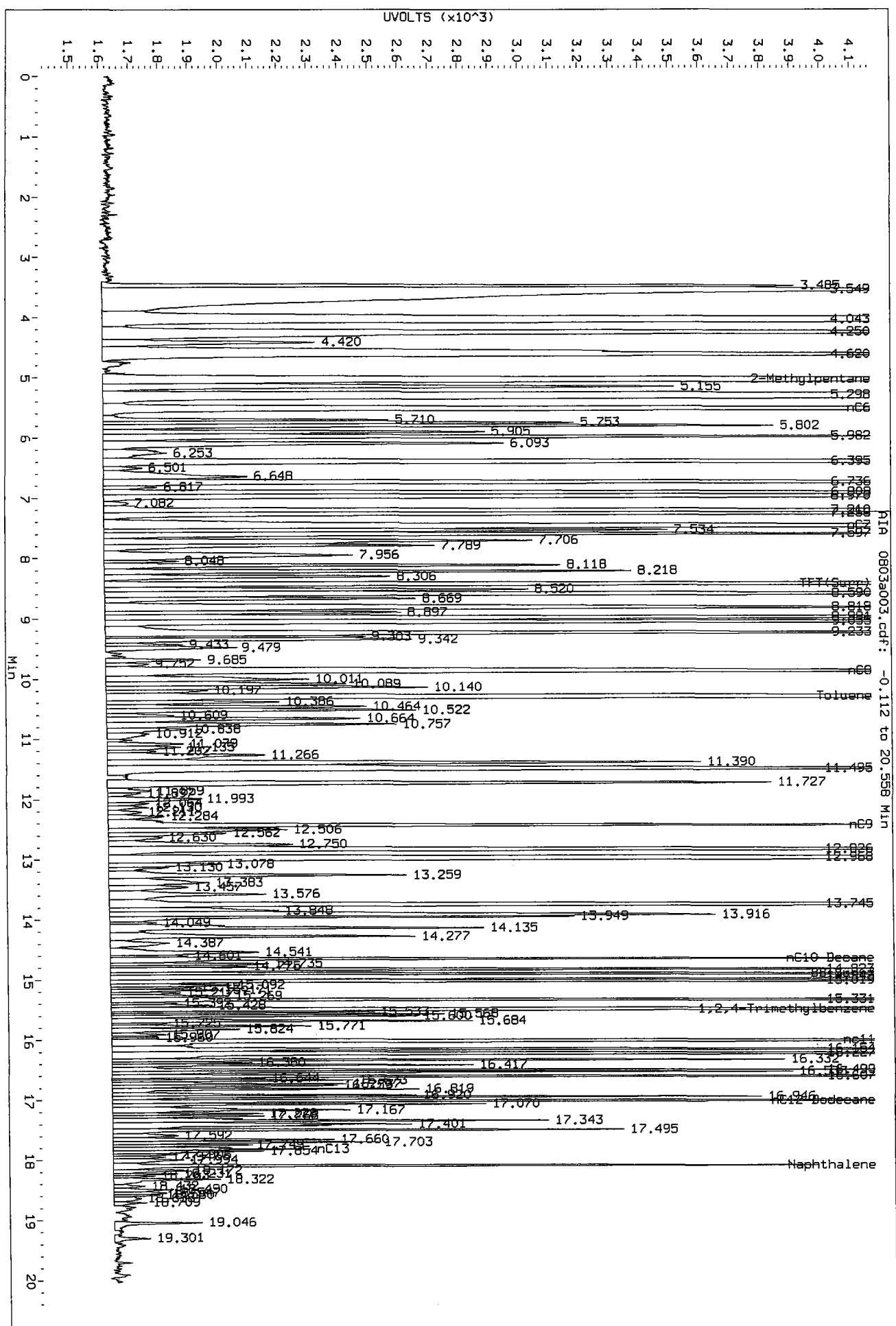
/chem3/pid3.i/20100803-1.b/0803a003.d/0803a003.cdf

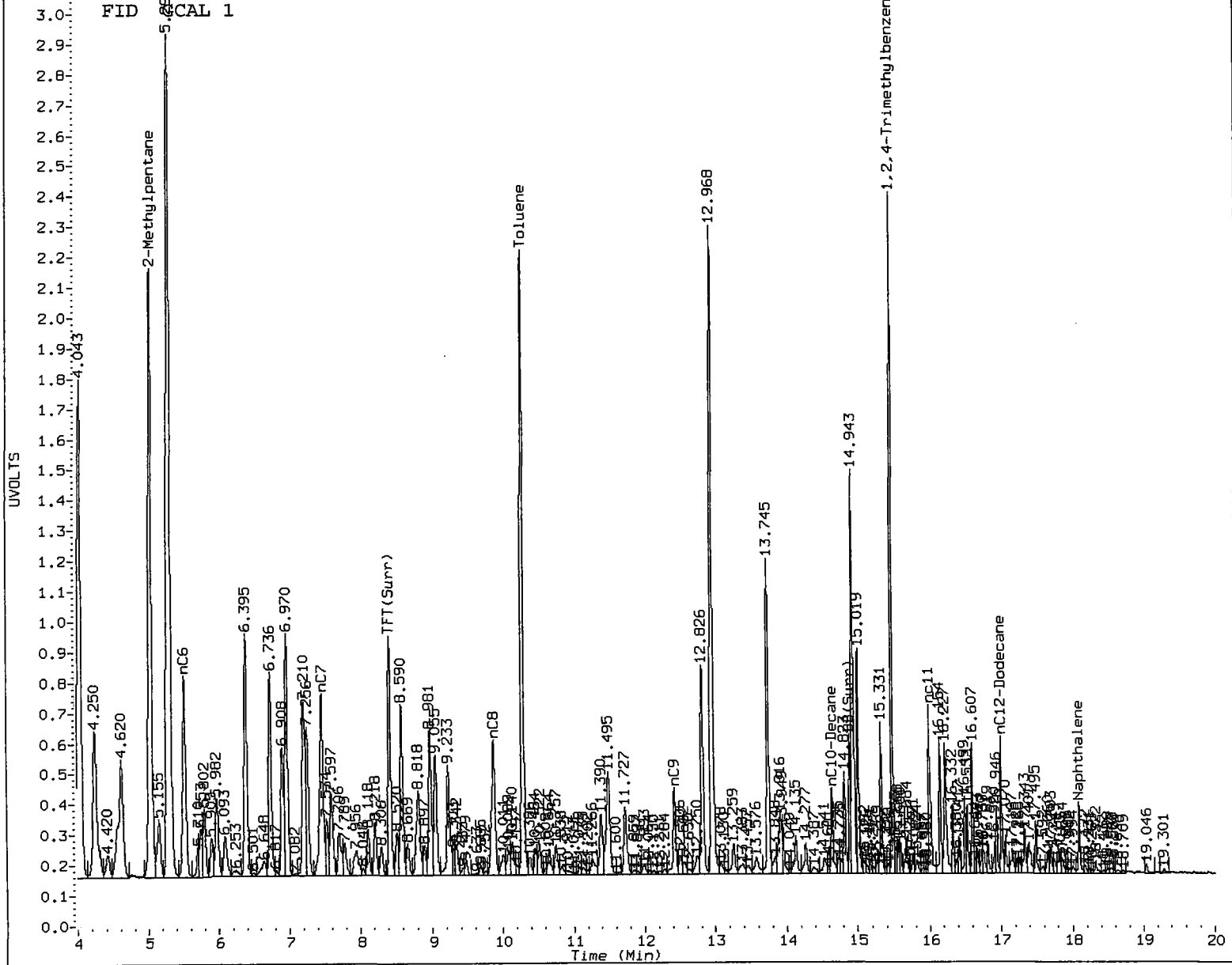
Instrument: pid3.i
Operator: MH
Column diameter: 0.18



MIX
8/5/10

Data File: /chem3/pid3.1/20100803-2.b/0803a003.d/0803a003.cdf
Injection Date: 03-AUG-2010 07:57
Instrument: pid3.1
Client Sample ID:





MANUAL INTEGRATION

- Baseline correction
- Poor chromatography
- Peak not found
- Totals calculation
- Other _____

Analyst: MA

Date: 8/5/10

M
8/5/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100803-2.b/0803a004.d ARI ID: LCS0803
Data file 2: /chem3/pid3.i/20100803-1.b/0803a004.d Client ID:
Method: /chem3/pid3.i/20100803-1.b/PIDB.m Injection Date: 03-AUG-2010 08:21
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	----	----	-----
8.434	0.025	7542	88749	104.8	TFT(Surr)
14.907	0.019	4423	35659	102.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (10.17 to 17.11)	827807	825689	0.997 M
8015B 2MP-TMB (4.92 to 15.58)	1664107	1644413	0.988 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	1103770	0.975 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	885735	1.004 M

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	----	-----
8.432	0.025	21798	99.2	TFT(Surr)
14.905	0.019	44602	97.8	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
7.710	0.022	2959	2.24	Benzene
10.300	0.028	40606	30.77	Toluene
12.834	0.029	11611	9.34	Ethylbenzene
12.974	0.032	45321	33.65	M/P-Xylene
13.750	0.026	18497	14.40	O-Xylene
5.302	0.014	35390	99.47	MTBE

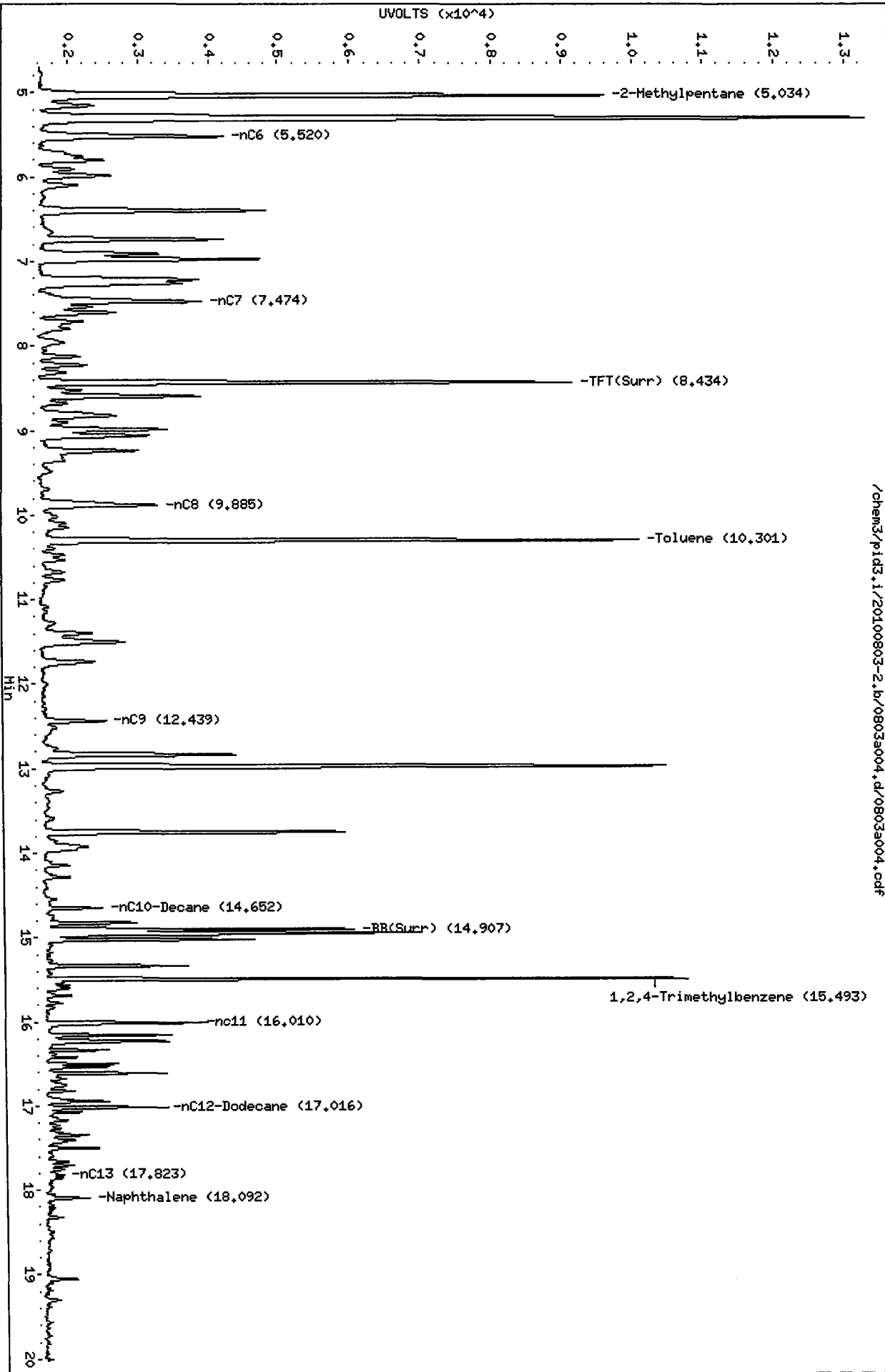
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100803-2.l/0803s004.d
Date : 03-AUG-2010 08:21

Client ID:
Sample Info: LCS0803

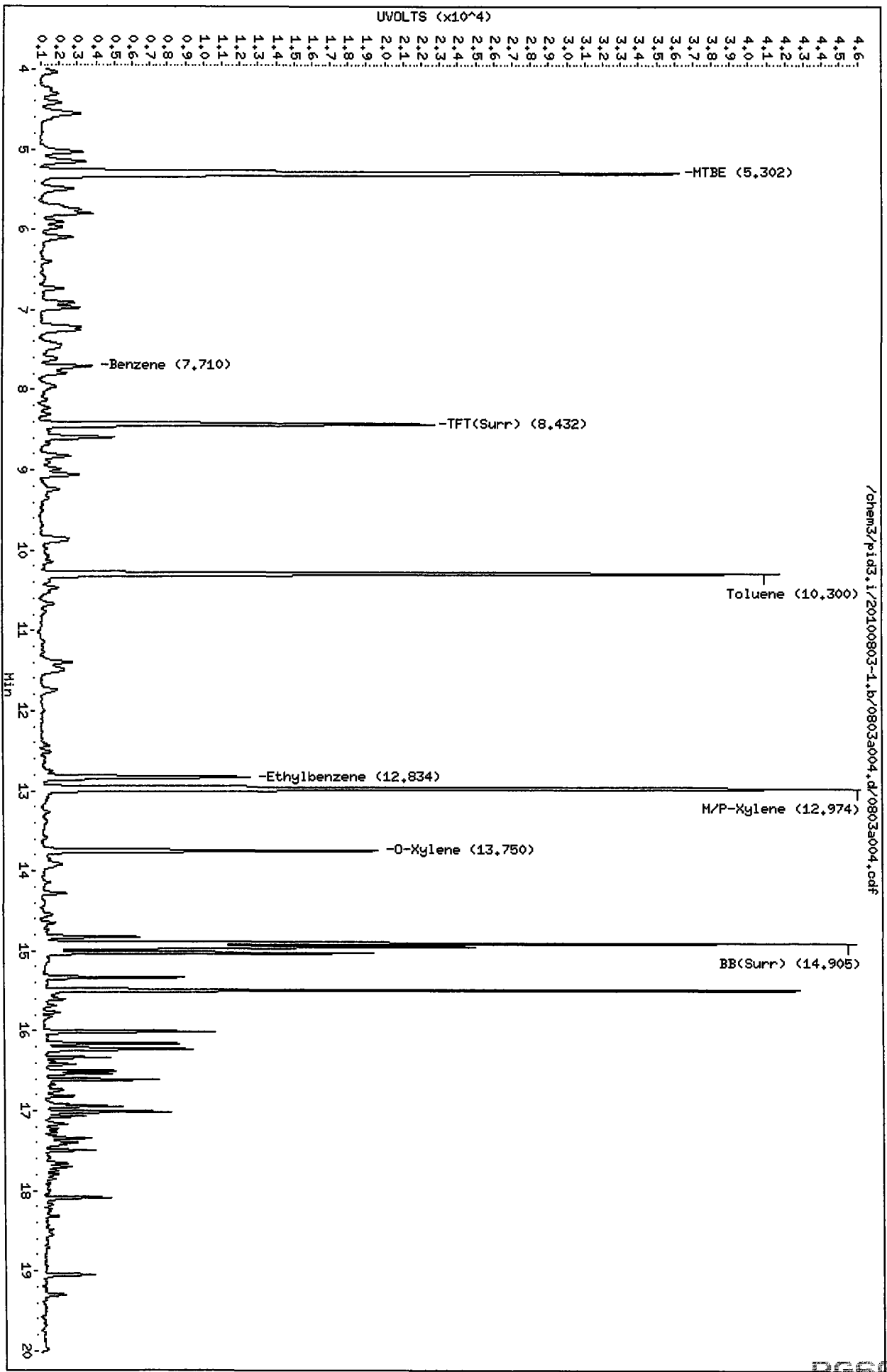
Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: HH
Column diameter: 0.18



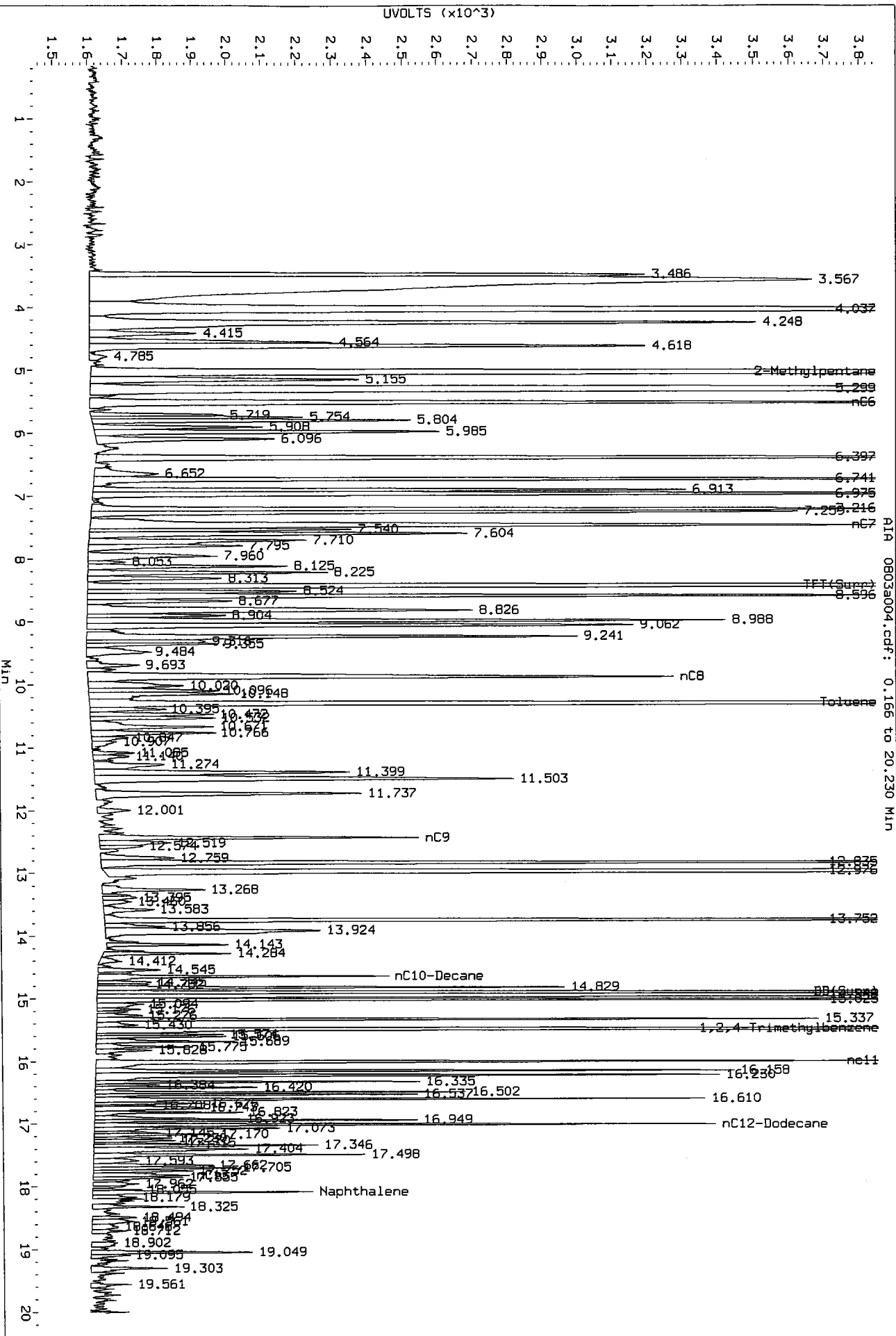
Data File: /chem3/pid3.i/20100803-1.b/0803a004.d
Date: 03-AUG-2010 08:21
Client ID:
Sample Info: LCS0803
Column phase: RTX 502-2 PID

Instrument: pid3.i
Operator: MH
Column diameter: 0.18



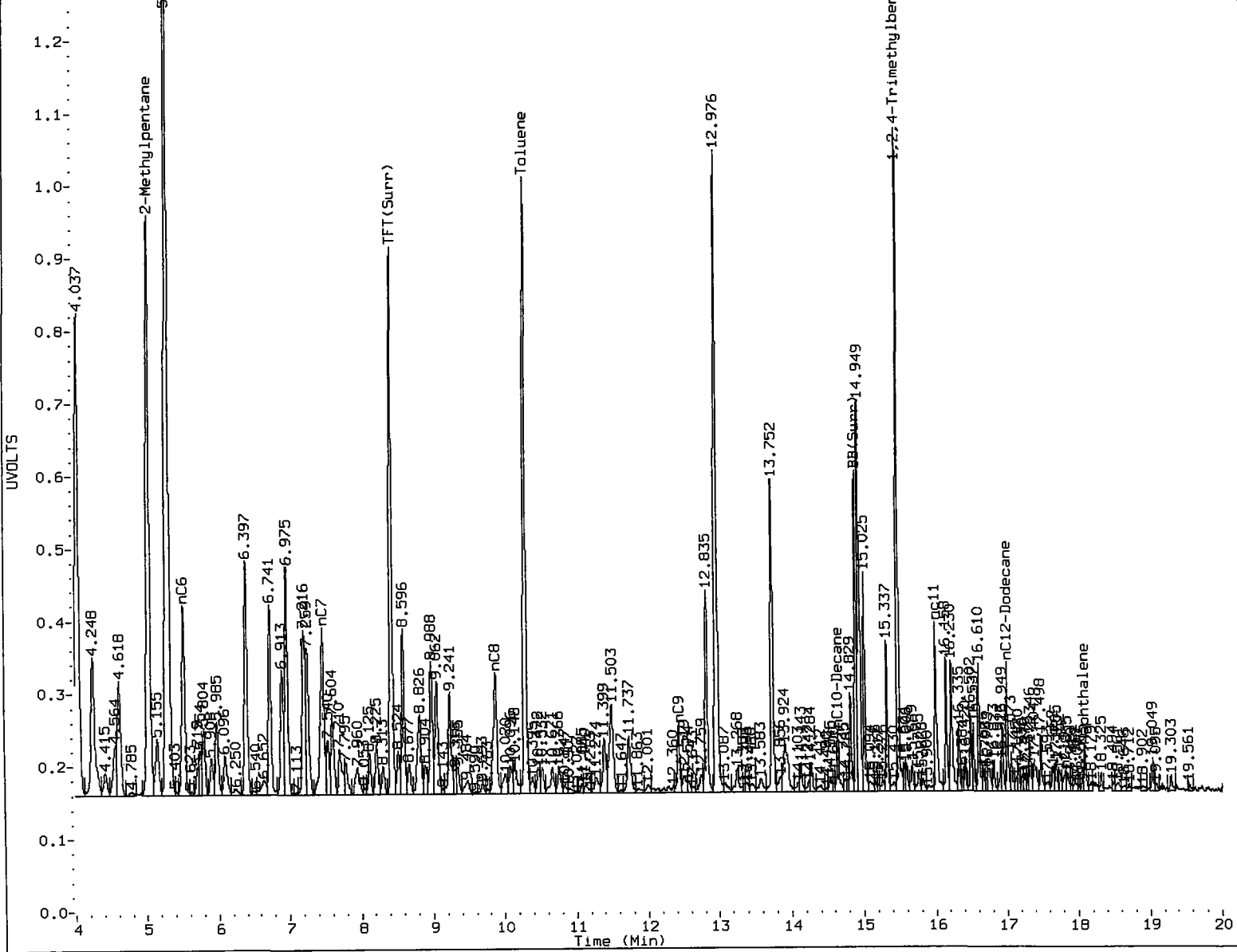
174
8/5/10

Data File: /chem3/pid3.1/20100803-2.b/0803s004.d/0803s004.cdf
Injection Date: 03-AUG-2010 08:21
Instrument: pid3.1
Client Sample ID:



0803s004.cdf: 0.166 to 20.230 Min

FID CS0803



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 8/5/10

M.F.
8/5/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100803-2.b/0803a005.d ARI ID: LCSD0803
Data file 2: /chem3/pid3.i/20100803-1.b/0803a005.d Client ID:
Method: /chem3/pid3.i/20100803-1.b/PIDB.m Injection Date: 03-AUG-2010 08:46
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.438	0.029	7359	87683	102.2	TFT(Surr)
14.910	0.022	4397	35861	102.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	804160	0.971 M
8015B 2MP-TMB (4.92 to 15.58)	1664107	1623426	0.976 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	1100768	0.973 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	853910	0.968 M

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.437	0.029	21380	97.3	TFT(Surr)
14.908	0.022	45215	99.2	BB(Surr)

SW8021 (PID)

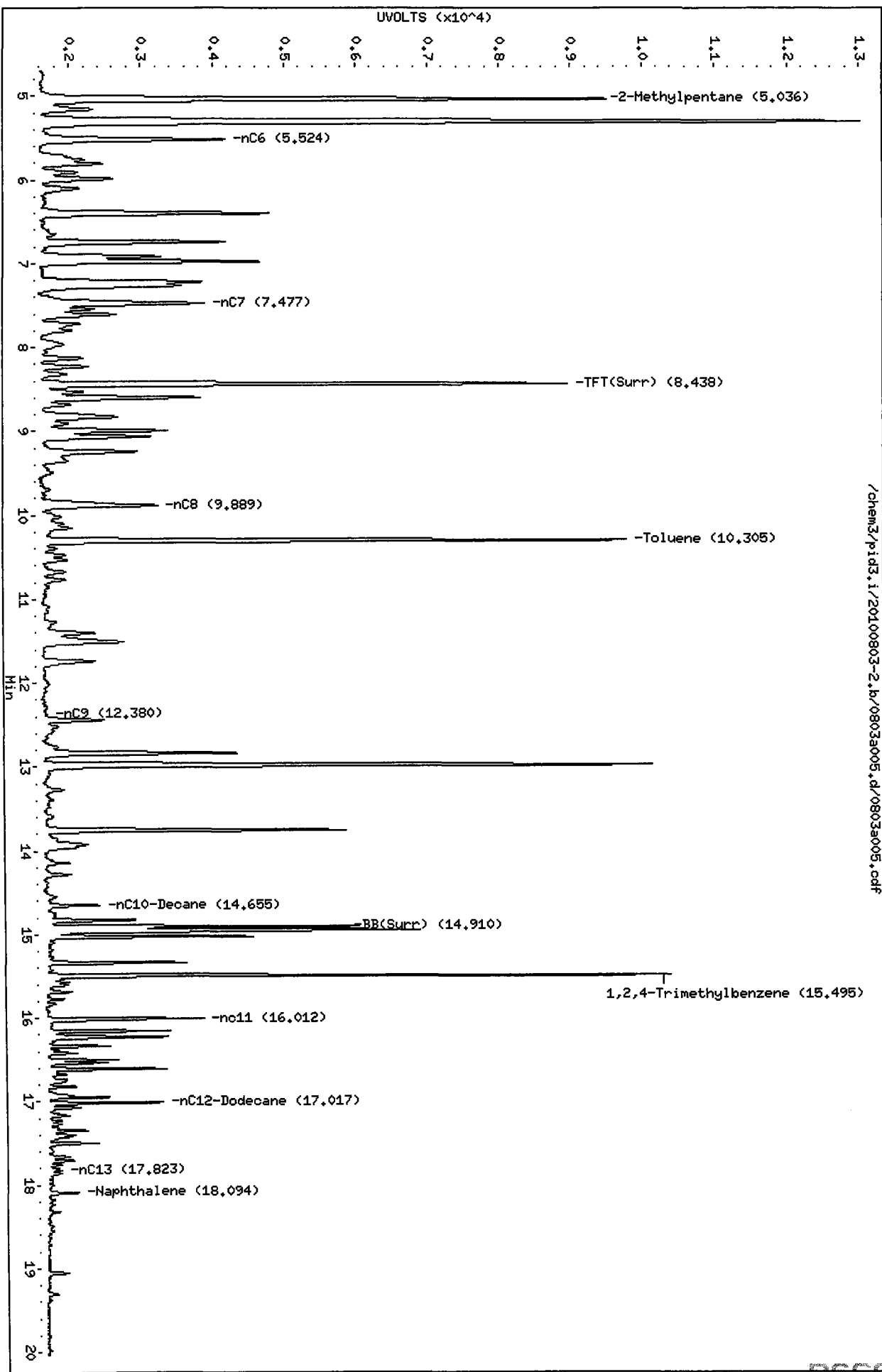
RT	Shift	Response	Amount	Compound
7.715	0.027	2854	2.16	Benzene
10.304	0.032	39183	29.69	Toluene
12.838	0.034	11258	9.06	Ethylbenzene
12.978	0.036	43452	32.27	M/P-Xylene
13.754	0.030	18171	14.14	O-Xylene
5.305	0.016	34357	96.56	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100803-2.b/0803a005.d
Date : 03-AUG-2010 08:46
Client ID:
Sample Info: LCSD0803

Column phase: RTX 502-2 FID

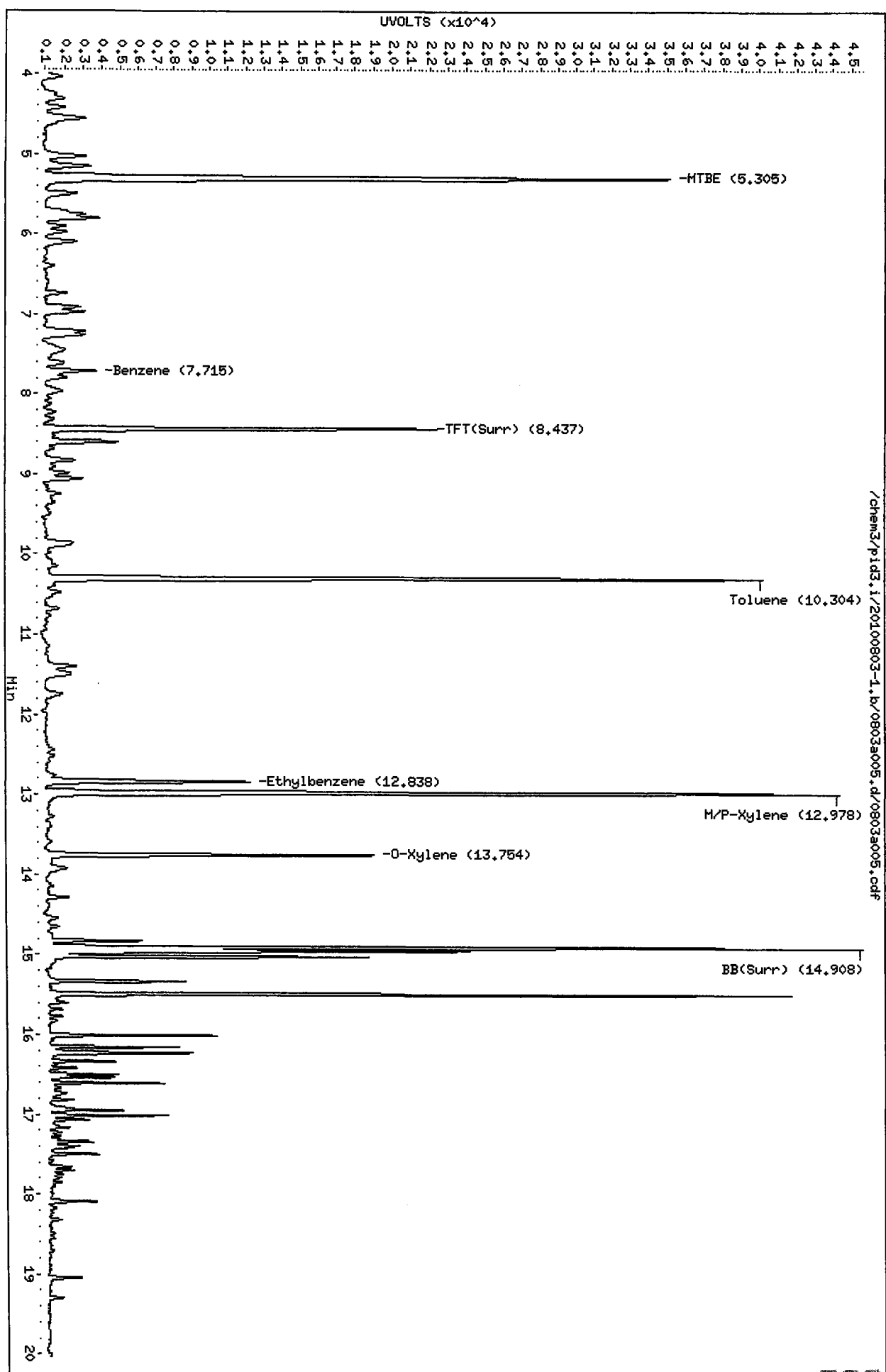
Instrument: pid3.i
Operator: HH
Column diameter: 0.18



/chem3/pid3.i/20100803-2.b/0803a005.d/0803a005.cdf

Data File: /chem3/pid3.i/20100803-1.b/0803a005.d
Date : 03-AUG-2010 08:46
Client ID:
Sample Info: LCSD0803
Column phase: RTX 502-2 PID

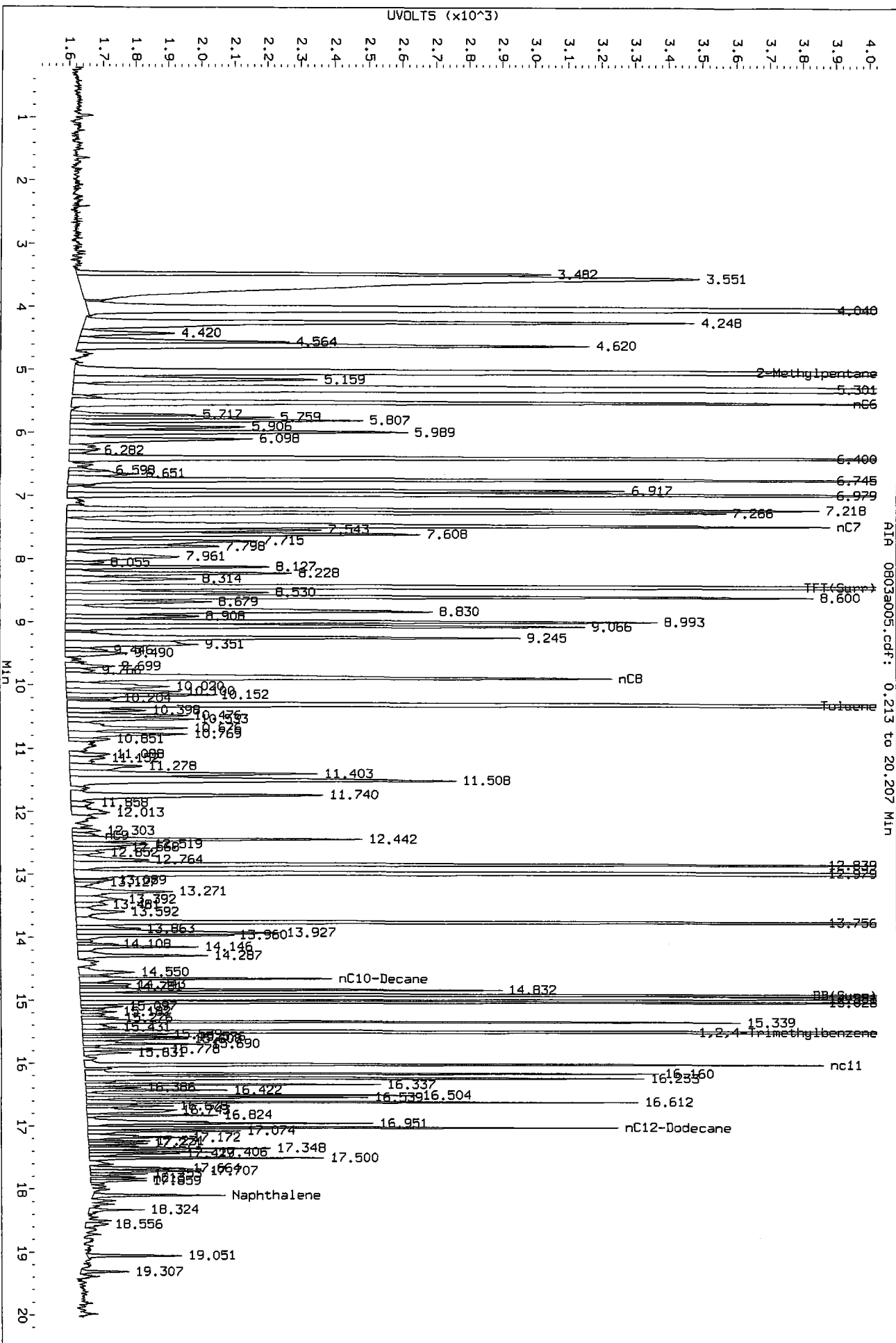
Instrument: pid3.i
Operator: MH
Column diameter: 0.18

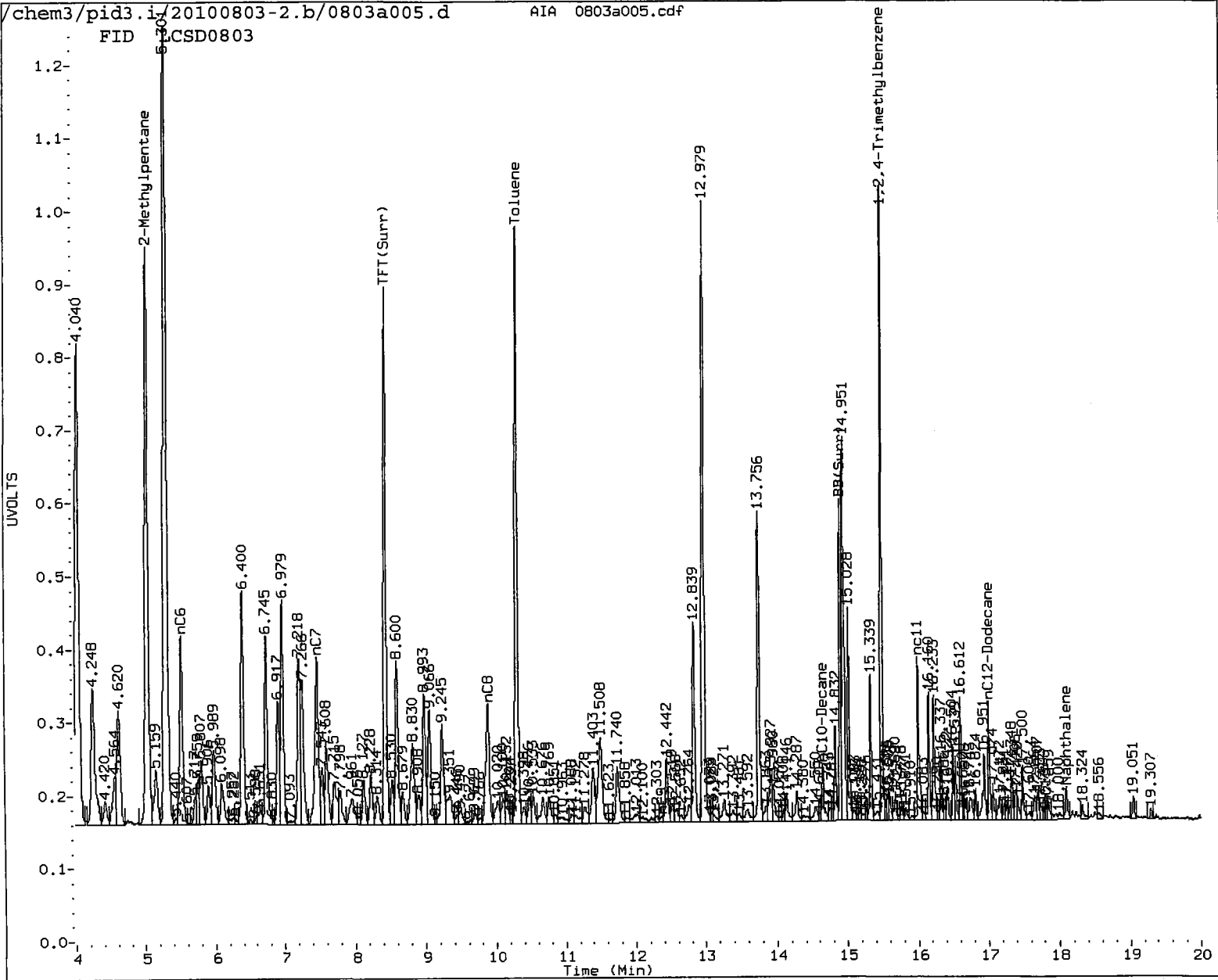


/chem3/pid3.i/20100803-1.b/0803a005.d/0803a005.cdf

M.
8/5/06

Data File: /chem3/pid3.1/20100803-2.b/0803a005.d/0803a005.cdf
Injection Date: 03-AUG-2010 08:46
Instrument: pid3.1
Client Sample ID:





MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 8/5/10

M.
8/5/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100803-2.b/0803a006.d ARI ID: MB0803
Data file 2: /chem3/pid3.i/20100803-1.b/0803a006.d Client ID:
Method: /chem3/pid3.i/20100803-1.b/PIDB.m Injection Date: 03-AUG-2010 09:10
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	-----	-----
8.439	0.031	7213	84789	100.2	TFT(Surr)
14.911	0.023	4266	34969	99.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (10.17 to 17.11)	827807	8777	0.011
8015B 2MP-TMB (4.92 to 15.58)	1664107	1027	0.001
AK101 nC6-nC10 (5.41 to 14.53)	1131784	1	0.000
NWTPHG Tol-Nap (10.17 to 18.18)	882029	15811	0.018

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	-----	-----
8.438	0.030	20836	94.8	TFT(Surr)
14.909	0.023	43365	95.1	BB(Surr)

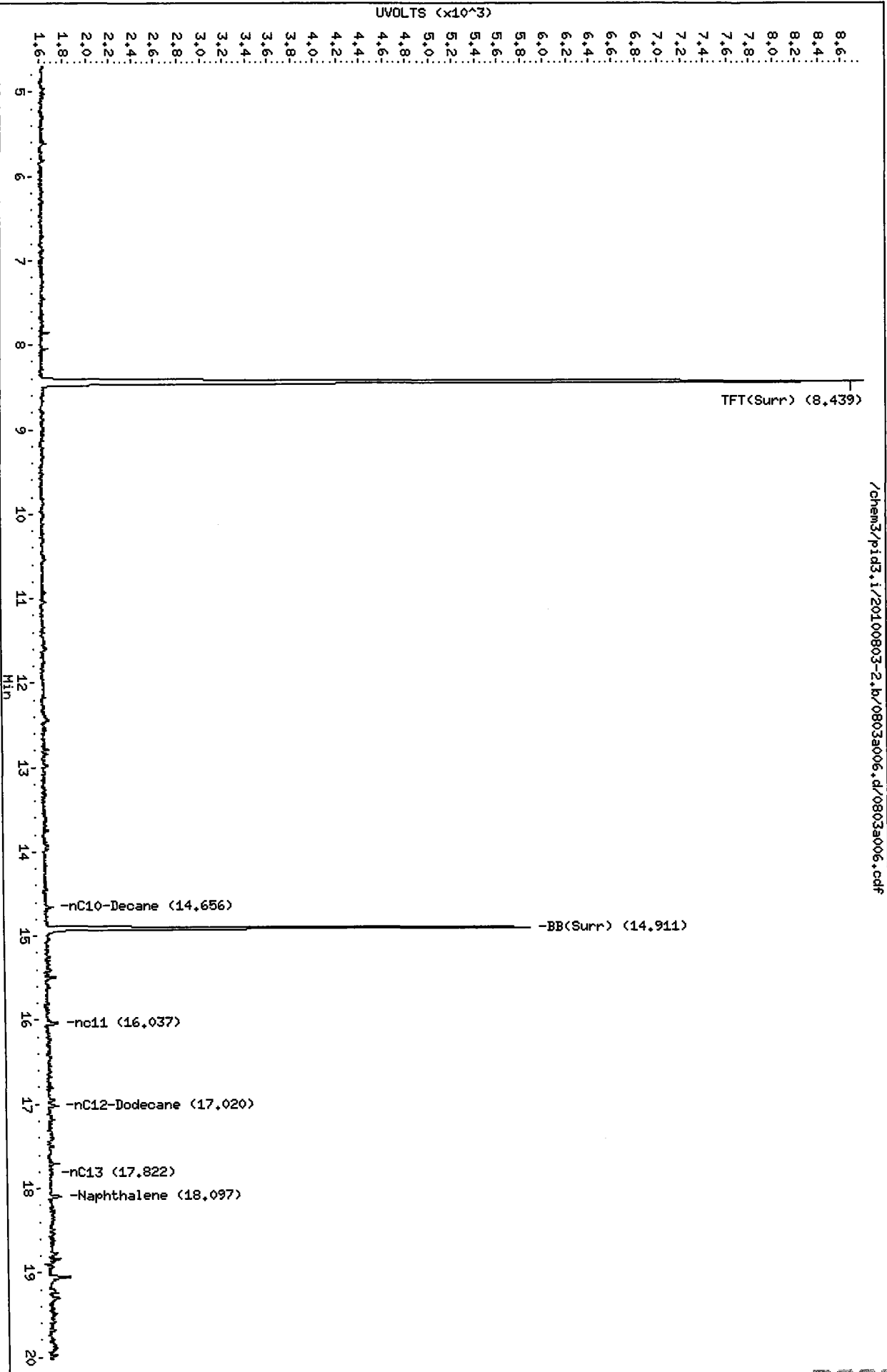
SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100803-2.b/0803a006.d
Date : 03-AUG-2010 09:10
Client ID:
Sample Info: HB0803
Column phaset: RTX 502-2 FID

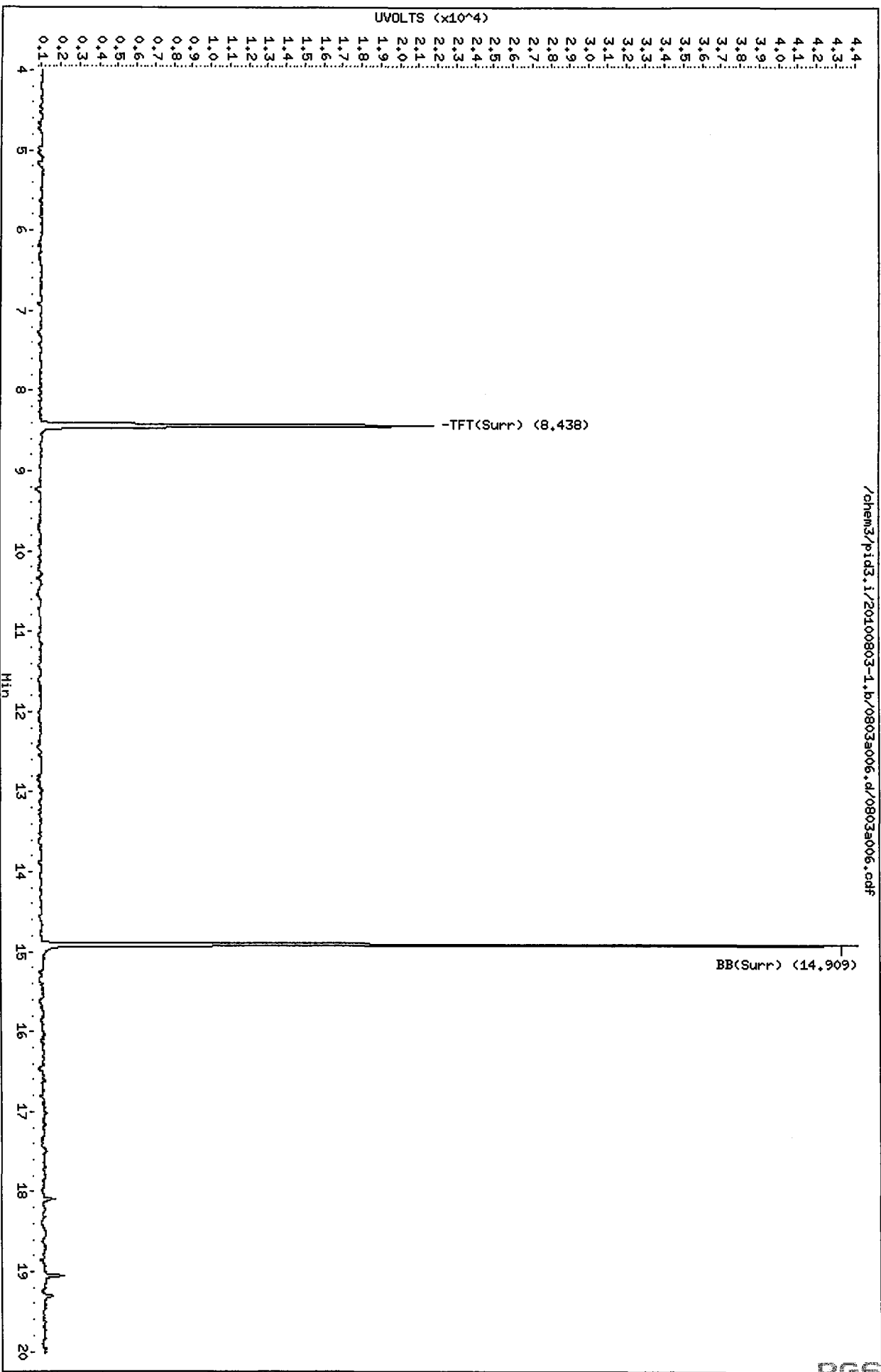
Instrument: pid3.i
Operator: MH
Column diameter: 0.18



/chem3/pid3.i/20100803-2.b/0803a006.d/0803a006.cdf

Data File: /chem3/pid3.i/20100803-1.b/0803a006.d
Date: 03-AUG-2010 09:10
Client ID:
Sample Info: MB0803
Column phase: RTX 502-2 PID

Instrument: pid3.i
Operator: MH
Column diameter: 0.18



M7
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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100803-2.b/0803a008.d ARI ID: RG60G
Data file 2: /chem3/pid3.i/20100803-1.b/0803a008.d Client ID: PSB13-TB
Method: /chem3/pid3.i/20100803-1.b/PIDB.m Injection Date: 03-AUG-2010 10:30
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	----	----	-----
8.420	0.012	7265	85959	100.9	TFT(Surr)
14.897	0.009	4292	35794	99.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (10.17 to 17.11)	827807	3355	0.004
8015B 2MP-TMB (4.92 to 15.58)	1664107	4778	0.003
AK101 nC6-nC10 (5.41 to 14.53)	1131784	2205	0.002
NWTPHG Tol-Nap (10.17 to 18.18)	882029	4607	0.005

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
8.419	0.011	21075	95.9	TFT(Surr)
14.895	0.008	43661	95.8	BB(Surr)

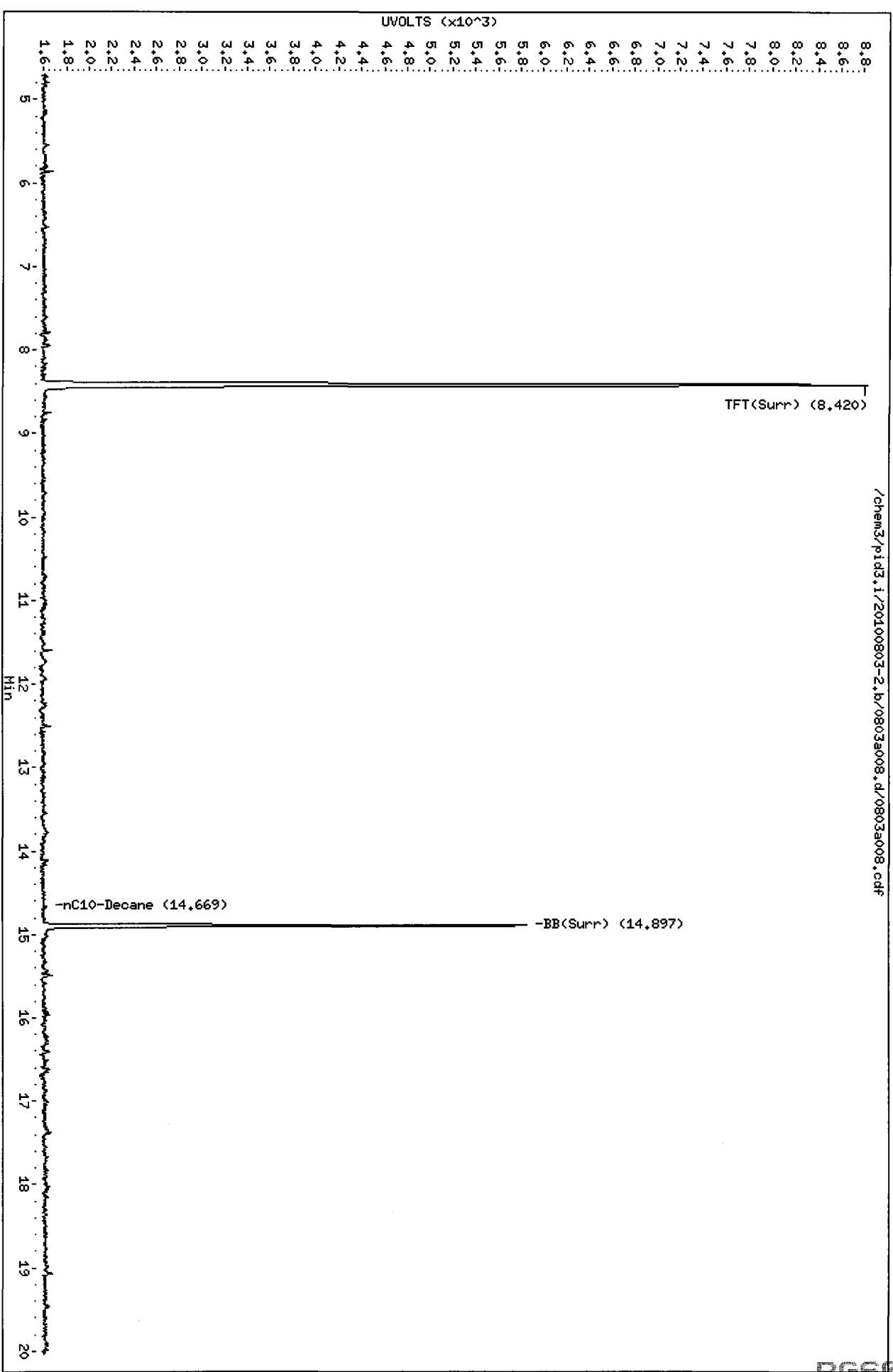
SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100803-2.b/0803a008.d
Date : 03-AUG-2010 10:30
Client ID: PSB13-TB
Sample Info: RG60G
Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: HH
Column diameter: 0.18



Data File: /chem3/pid3.i/20100803-1.b/0803a008.d

Date: 03-AUG-2010 10:30

Client ID: PSB13-TB

Sample Inlet: RG60C

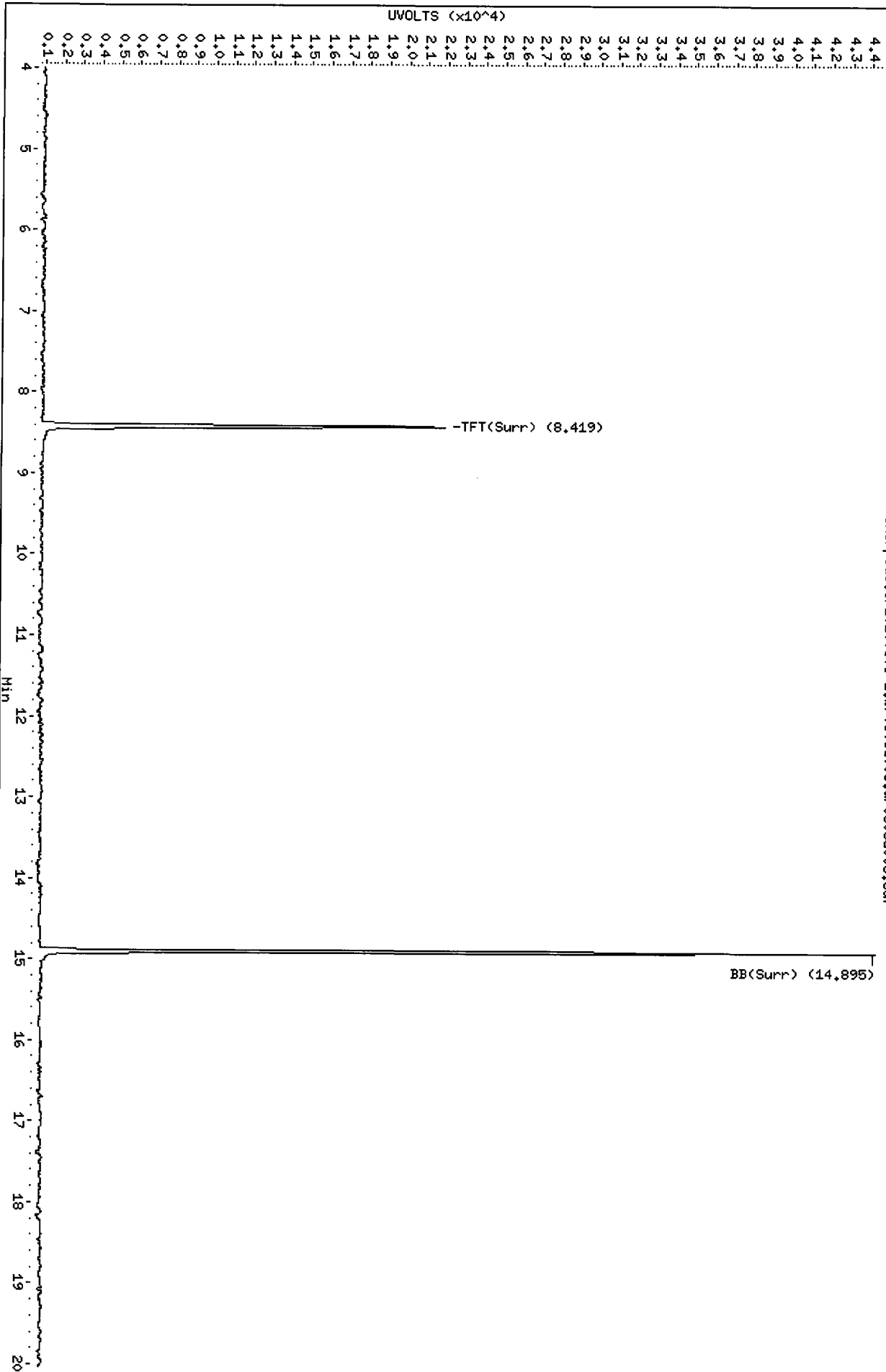
Instrument: pid3.i

Operator: MH

Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem3/pid3.i/20100803-1.b/0803a008.d/0803a008.cdf



M7
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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100803-2.b/0803a010.d ARI ID: RG60B
Data file 2: /chem3/pid3.i/20100803-1.b/0803a010.d Client ID: PSB13-1.5-2-072910
Method: /chem3/pid3.i/20100803-1.b/PIDB.m Injection Date: 03-AUG-2010 11:19
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	----	----	-----
8.436	0.028	7587	89909	105.4	TFT(Surr)
14.908	0.020	4458	36286	103.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (10.17 to 17.11)	827807	11036	0.013
8015B 2MP-TMB (4.92 to 15.58)	1664107	10244	0.006
AK101 nC6-nC10 (5.41 to 14.53)	1131784	9227	0.008
NWTPHG Tol-Nap (10.17 to 18.18)	882029	12100	0.014

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
8.435	0.028	22060	100.3	TFT(Surr)
14.906	0.020	45116	99.0	BB(Surr)

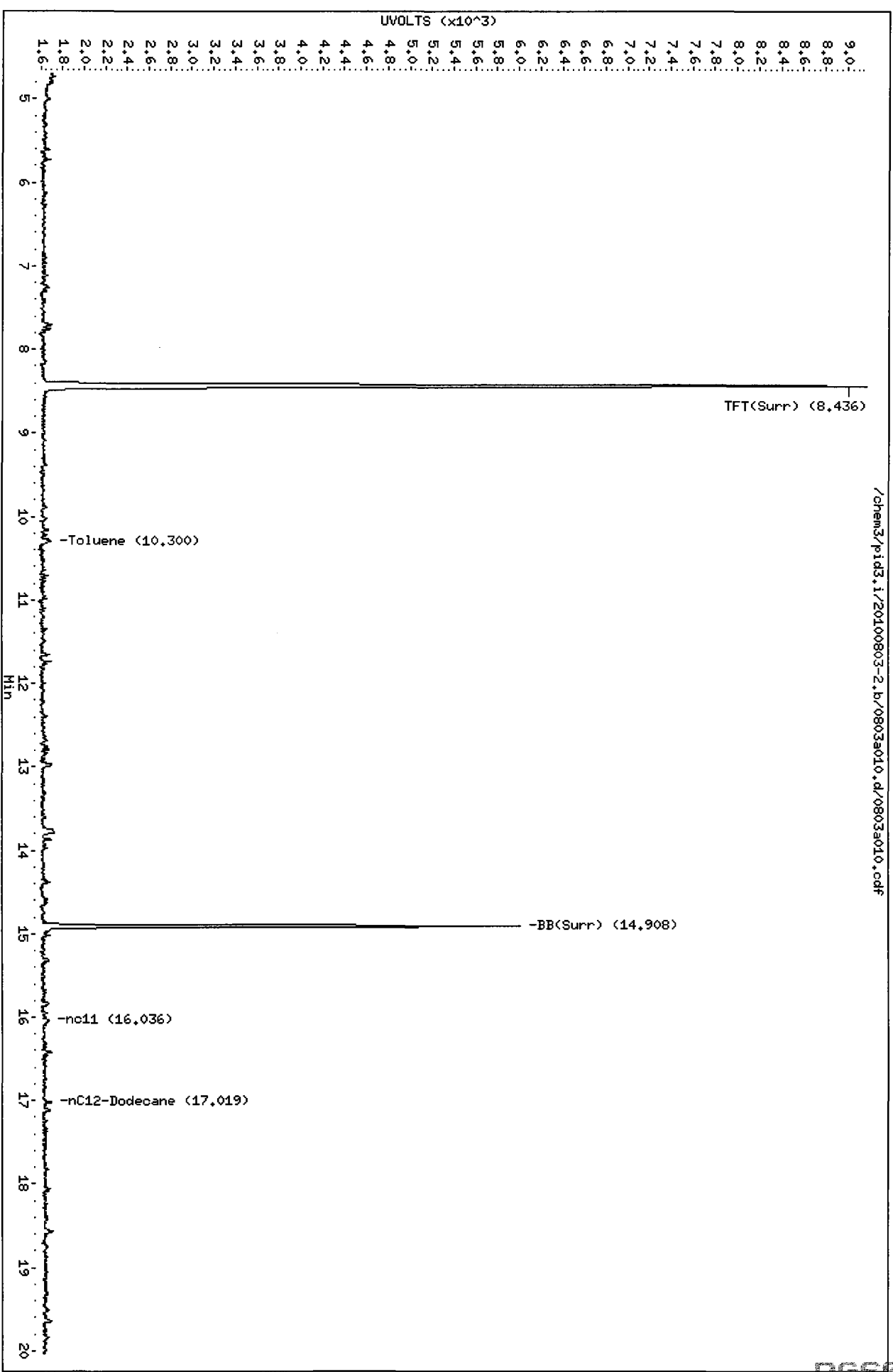
SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
12.974	0.033	501	0.37	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100803-2.b/0803a010.d
Date: 03-AUG-2010 11:19
Client ID: PSB13-1.5-2-072910
Sample Info: RG60B
Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: HH
Column diameter: 0.18



Data File: /chem3/pid3.i/20100803-1.b/0803a010.d

Date: 03-AUG-2010 11:19

Client ID: PSB13-1.5-2-072910

Sample Info: RG60B

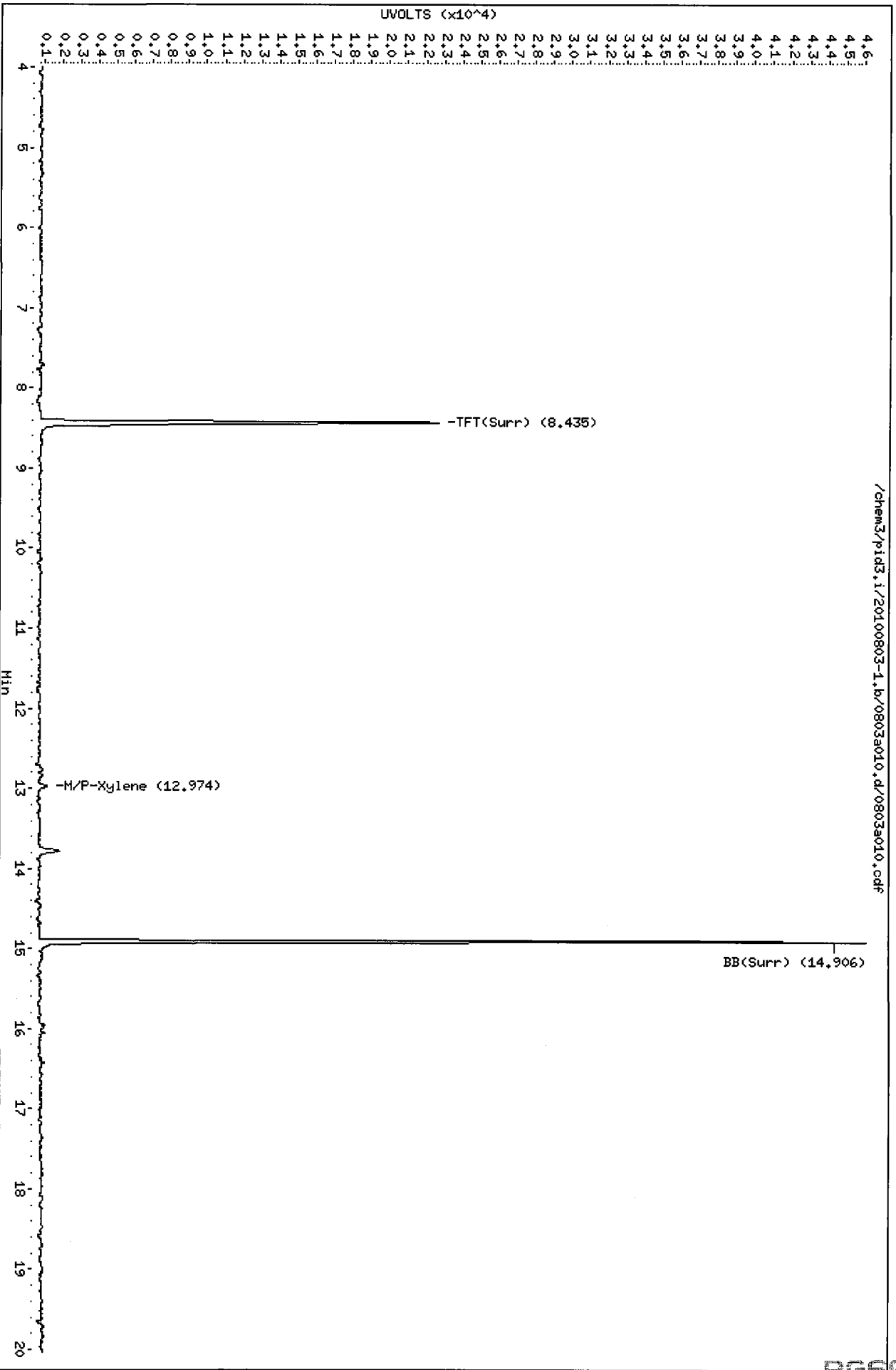
Page 1

Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18



RG60B : 01246

11/5/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100803-2.b/0803a011.d ARI ID: RG60C
Data file 2: /chem3/pid3.i/20100803-1.b/0803a011.d Client ID: PSB13-2-4-072910
Method: /chem3/pid3.i/20100803-1.b/PIDB.m Injection Date: 03-AUG-2010 11:43
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.439	0.030	7416	87699	103.0	TFT(Surr)
14.910	0.022	4415	35818	102.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	6173	0.007
8015B 2MP-TMB (4.92 to 15.58)	1664107	8272	0.005
AK101 nC6-nC10 (5.41 to 14.53)	1131784	8271	0.007
NWTPHG Tol-Nap (10.17 to 18.18)	882029	6173	0.007

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.437	0.029	21415	97.4	TFT(Surr)
14.908	0.022	45064	98.8	BB(Surr)

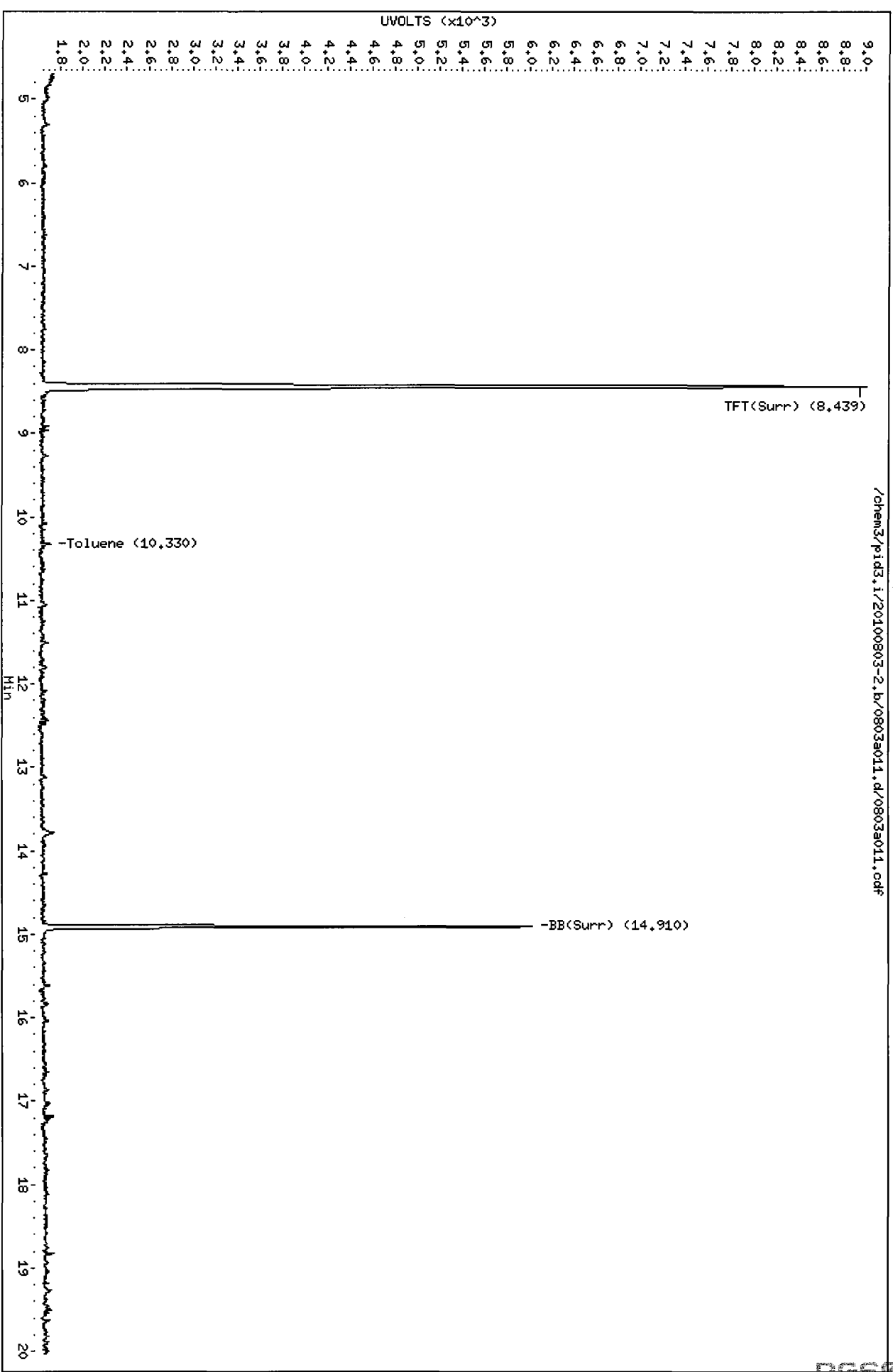
SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100803-2.b/0803a011.d
Date: 03-AUG-2010 11:43
Client ID: PSB13-2-4-072910
Sample Info: RG60C
Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: HH
Column diameter: 0.18



/chem3/pid3.i/20100803-2.b/0803a011.d/0803a011.cdf

Data File: /chem3/pid3.i/20100803-1.b/0803a011.d

Date: 03-AUG-2010 11:43

Client ID: PSB13-2-4-072910

Sample Info: RG60C

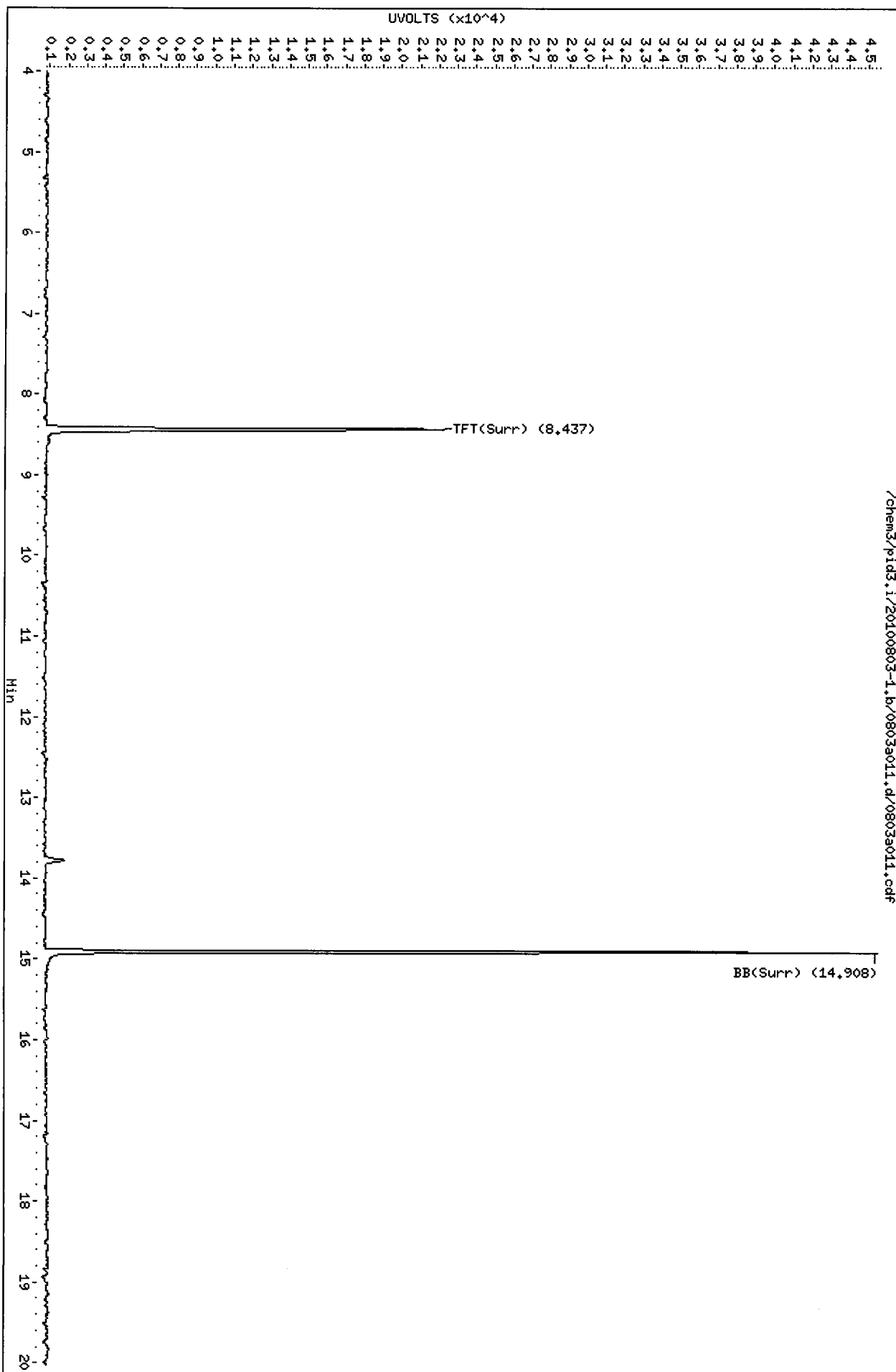
Instrument: pid3.i

Operator: MH

Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem3/pid3.i/20100803-1.b/0803a011.d/0803a011.cdf



M
8/5/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100803-2.b/0803a012.d ARI ID: RG60D
Data file 2: /chem3/pid3.i/20100803-1.b/0803a012.d Client ID: PSB13-4-6-072910
Method: /chem3/pid3.i/20100803-1.b/PIDB.m Injection Date: 03-AUG-2010 12:08
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	----	----	-----
8.443	0.035	7444	88531	103.4	TFT(Surr)
14.911	0.024	4431	35622	102.9	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (10.17 to 17.11)	827807	9619	0.012
8015B 2MP-TMB (4.92 to 15.58)	1664107	7362	0.004
AK101 nC6-nC10 (5.41 to 14.53)	1131784	7362	0.007
NWTPHG Tol-Nap (10.17 to 18.18)	882029	9619	0.011

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
8.441	0.034	21648	98.5	TFT(Surr)
14.909	0.023	45543	99.9	BB(Surr)

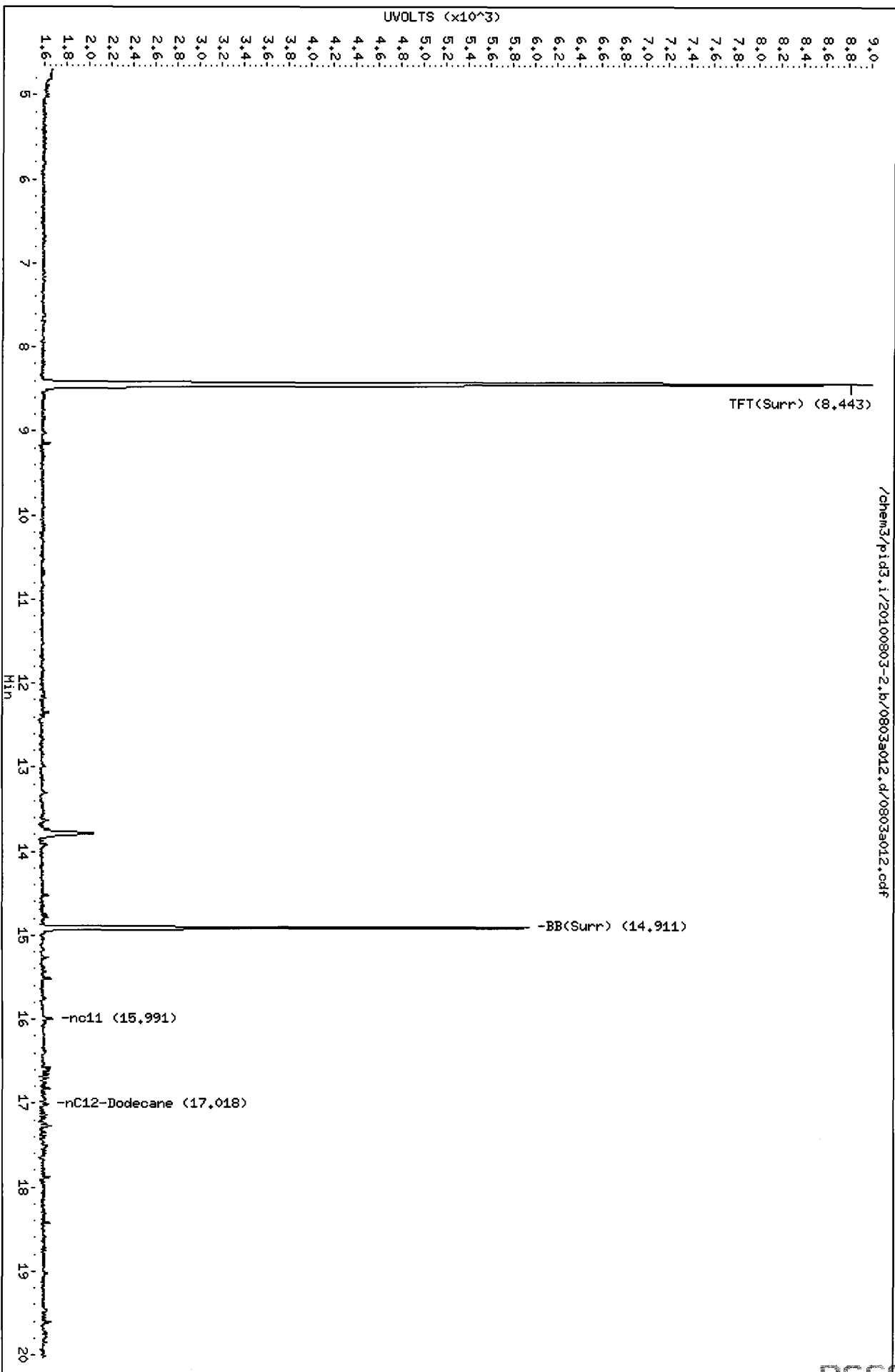
SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100803-2.b/0803a012.d
Date : 03-AUG-2010 12:08
Client ID: PSB13-4-6-072910
Sample Info: RC60D
Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: MH
Column diameter: 0.18



Data File: /chem3/pid3.1/20100803-1.b/0803a012.d

Date: 03-AUG-2010 12:08

Client ID: PSB13-4-6-072910

Sample Info: RG60D

Page 1

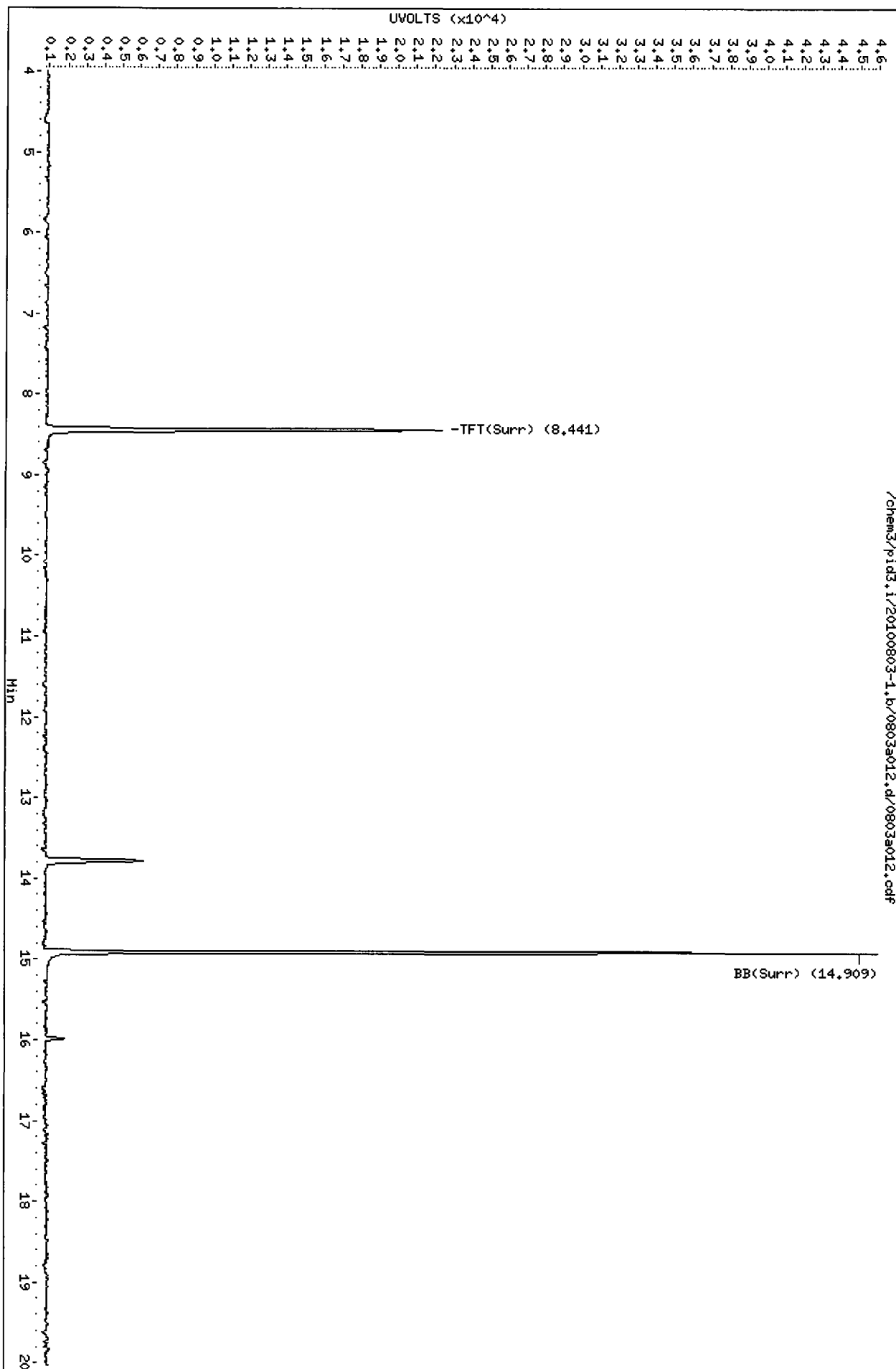
Instrument: pid3.1

Operator: MH

Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem3/pid3.1/20100803-1.b/0803a012.d/0803a012.cdf



RG60 : 01252

M/S
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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100803-2.b/0803a014.d ARI ID: BCAL 2
Data file 2: /chem3/pid3.i/20100803-1.b/0803a014.d Client ID: BCAL 2
Method: /chem3/pid3.i/20100803-1.b/PIDB.m Injection Date: 03-AUG-2010 12:56
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.444	0.000	7625	90698	105.9	TFT(Surr)
14.912	-0.001	4562	37241	105.9	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.21 to 17.12)	827807	592639	0.716
8015B 2MP-TMB (4.94 to 15.60)	1664107	601018	0.361
AK101 nC6-nC10 (5.43 to 14.51)	1131784	561612	0.496
NWTPHG Tol-Nap (10.21 to 18.19)	882029	595305	0.675

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.442	0.035	22530	102.5	TFT(Surr)
14.910	0.024	47545	104.3	BB(Surr)

SW8021 (PID)

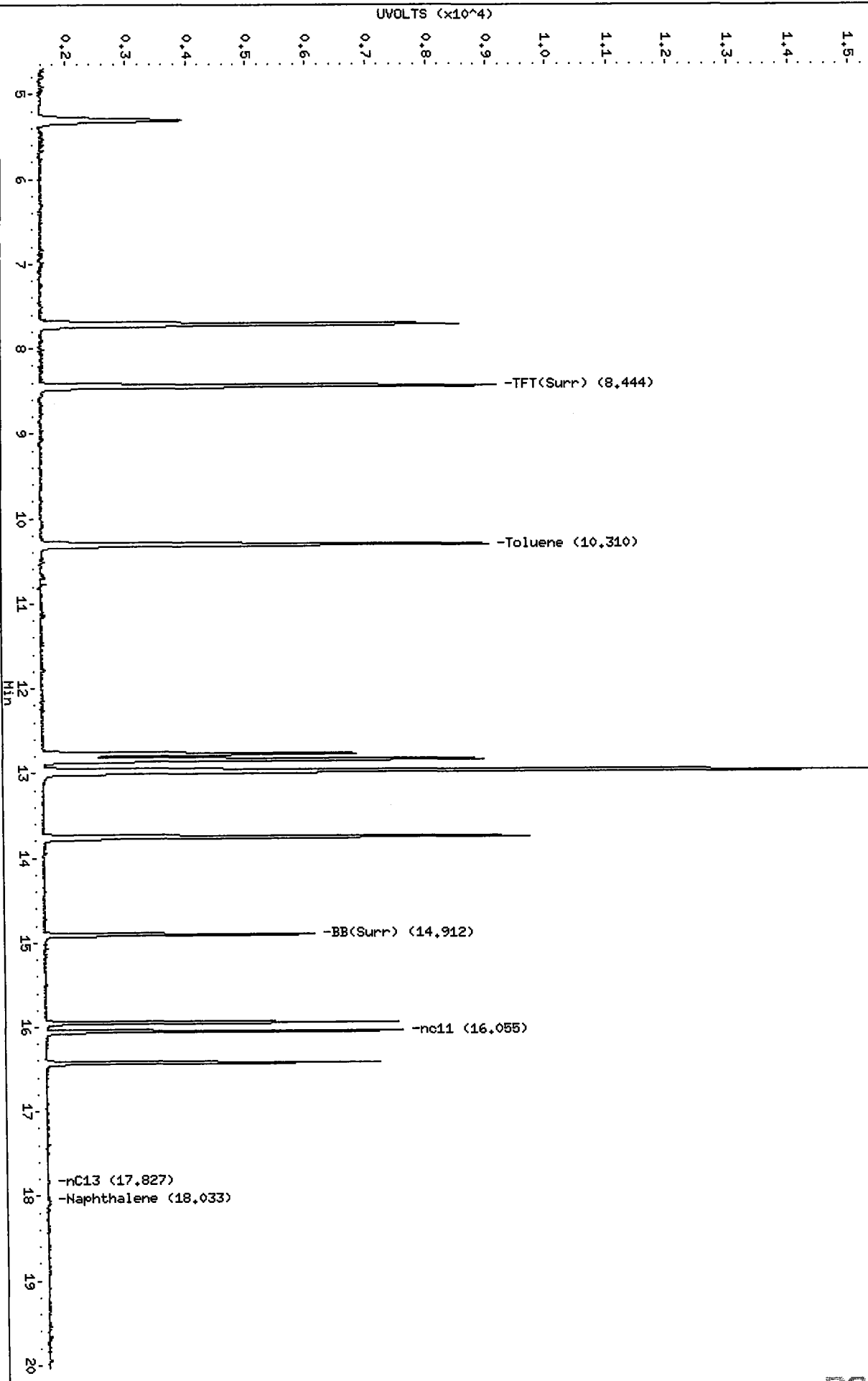
RT	Shift	Response	Amount	Compound
7.718	0.030	35899	27.15	Benzene
10.309	0.038	36306	27.51	Toluene
12.843	0.038	33141	26.67	Ethylbenzene
12.980	0.039	72311	53.70	M/P-Xylene
13.758	0.034	35351	27.51	O-Xylene
5.308	0.020	9637	27.09	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3,i/20100803-2,b/0803a014.d
Date : 03-AUG-2010 12:56
Client ID:
Sample Info: BICAL 2
Column phase: RTX 502-2 FID

Instrument: pid3,i
Operator: MH
Column diameter: 0.18

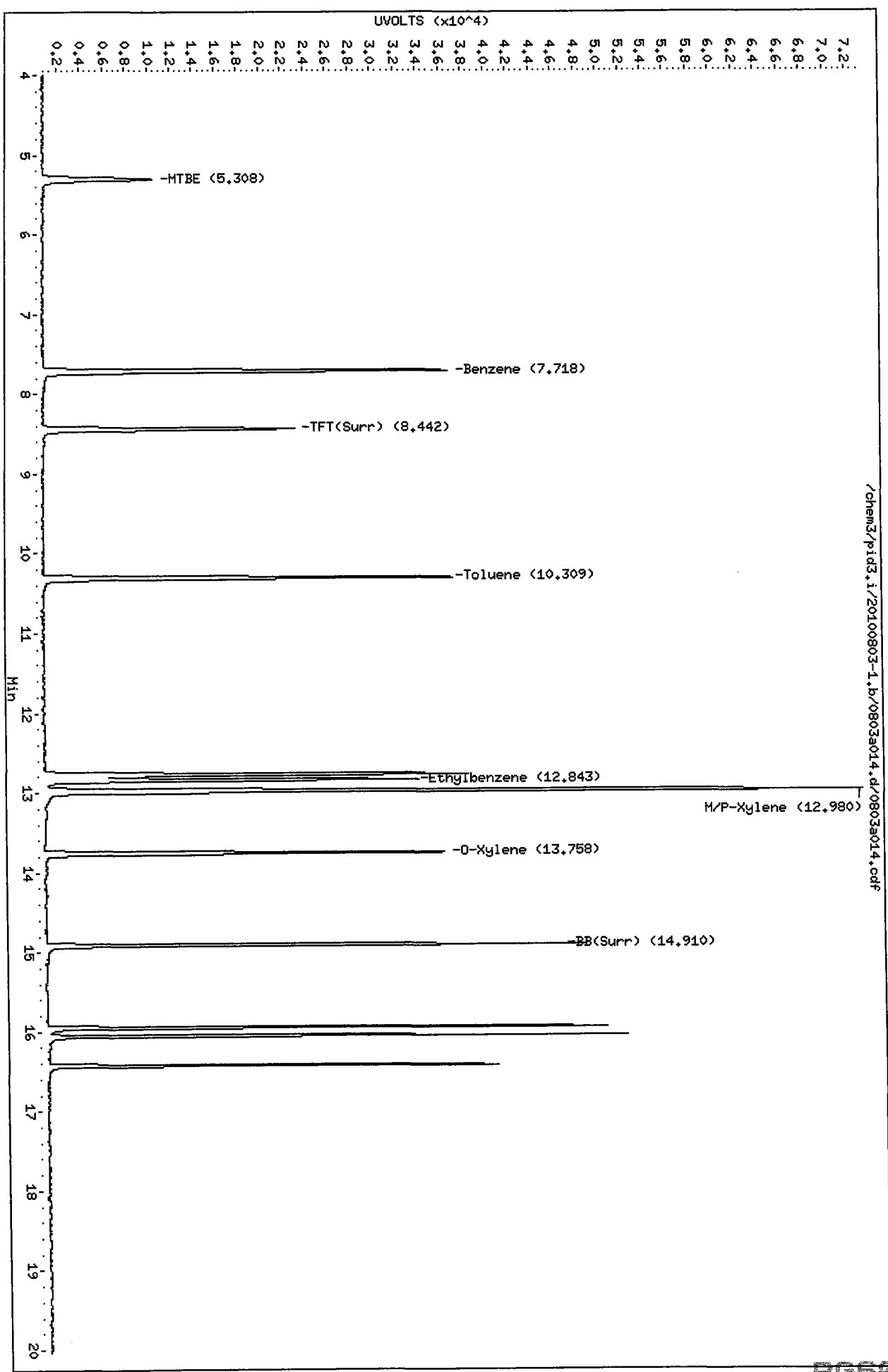
/chem3/pid3,i/20100803-2,b/0803a014.d/0803a014.cdf



Data File: /chem3/pid3.i/20100803-1.b/0803a014.d
Date: 03-AUG-2010 12:56
Client ID: BCAL 2
Sample Info: BCAL 2

Column phase: RTX 502-2 PID

Instrument: pid3.i
Operator: HH
Column diameter: 0.18



/chem3/pid3.i/20100803-1.b/0803a014.d/0803a014.cdf

Mh
8/15/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100803-2.b/0803a015.d ARI ID: GCAL 2
Data file 2: /chem3/pid3.i/20100803-1.b/0803a015.d Client ID: GCAL 2
Method: /chem3/pid3.i/20100803-1.b/PIDB.m Injection Date: 03-AUG-2010 13:20
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====
FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	----	----	-----
8.444	0.000	7924	94644	110.1	TFT(Surr)
14.912	0.000	4672	39566	108.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (10.21 to 17.12)	827807	2060837	2.490 M
8015B 2MP-TMB (4.94 to 15.60)	1664107	4079909	2.452 M
AK101 nC6-nC10 (5.43 to 14.51)	1131784	2737165	2.418 M
NWTPHG Tol-Nap (10.21 to 18.19)	882029	2177926	2.469 M

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

=====
PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	----	-----
8.442	0.001	23225	105.6	TFT(Surr)
14.910	0.000	48155	105.6	BB(Surr)

SW8021 (PID)

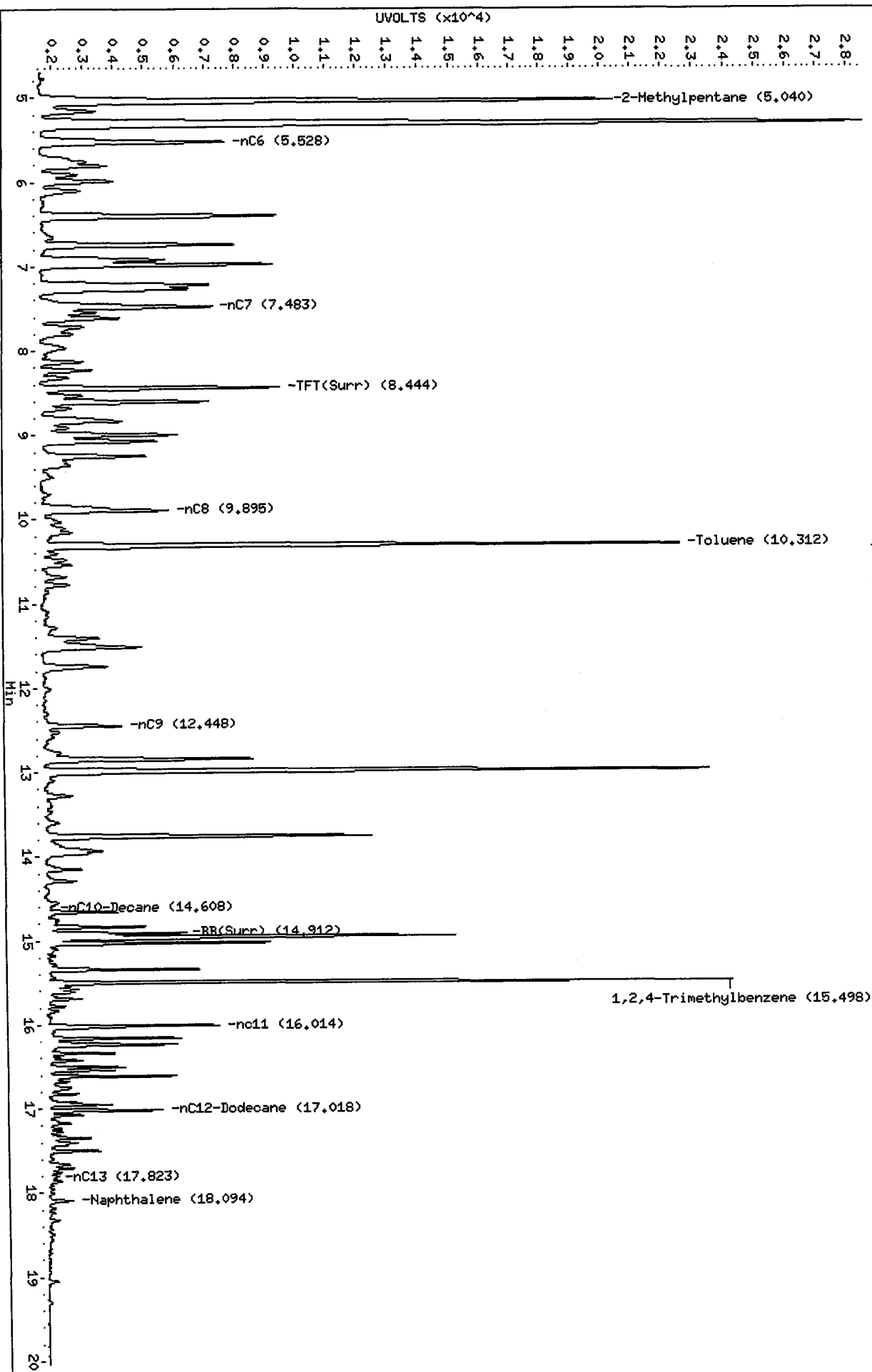
RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
7.719	0.003	7395	5.59	Benzene
10.310	0.001	102334	77.54	Toluene
12.843	0.000	29505	23.74	Ethylbenzene
12.984	0.003	113435	84.24	M/P-Xylene
13.759	0.000	46945	36.54	O-Xylene
5.312	0.006	83048	233.41	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.1/20100803-2.b/0803a015.d
Date: 03-AUG-2010 13:20
Client ID:
Sample Info: GCAL 2

Column phase: RTX 502-2 FID

Instrument: pid3.1
Operator: MH
Column diameter: 0.18



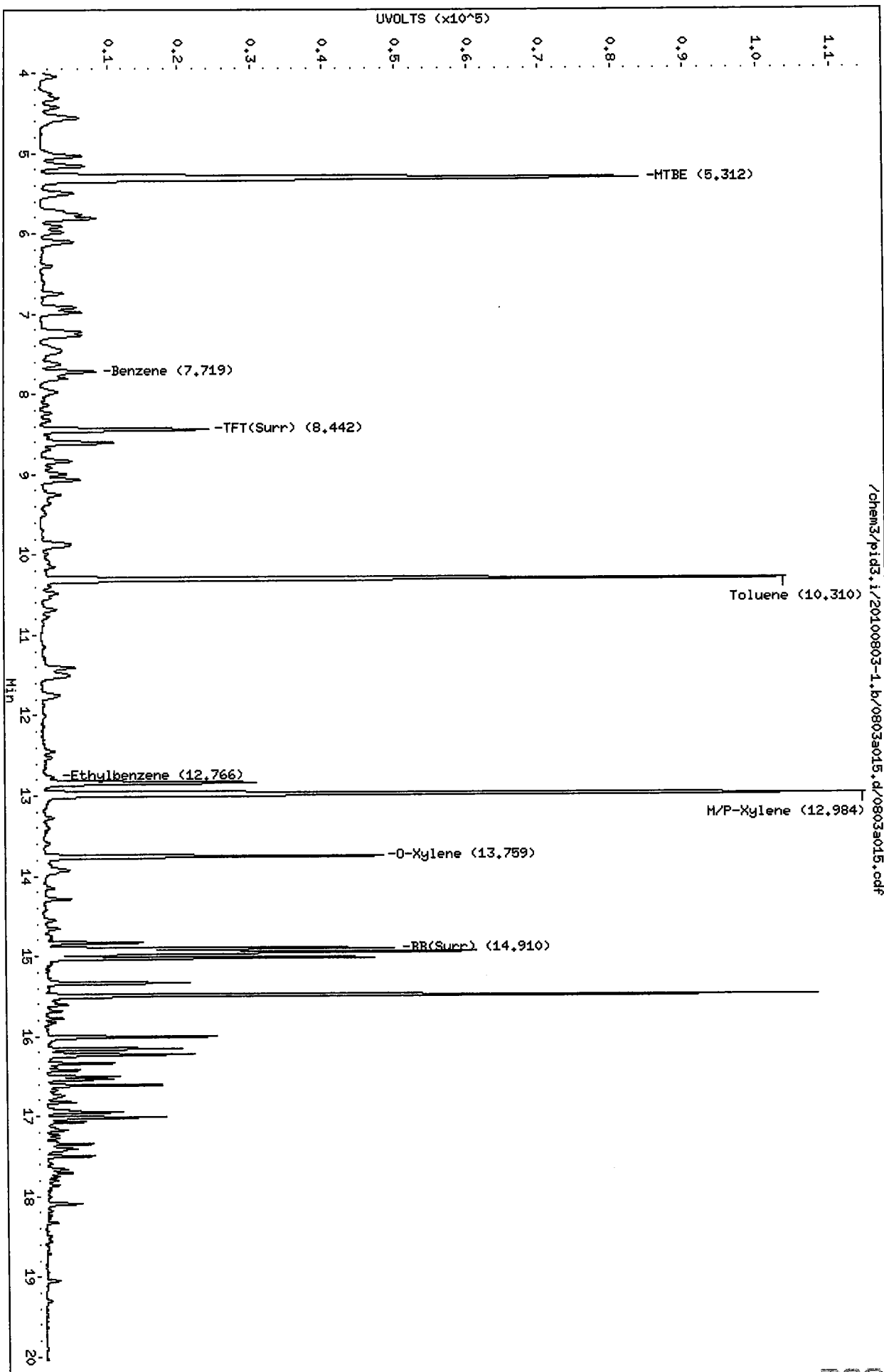
/chem3/pid3.1/20100803-2.b/0803a015.d/0803a015.cdf

Data File: /chem3/pid3.i/20100803-1.b/0803a015.d
Date: 03-AUG-2010 13:20
Client ID:
Sample Info: GCAL 2

Column phase: RTX 502-2 PID

Instrument: pid3.i

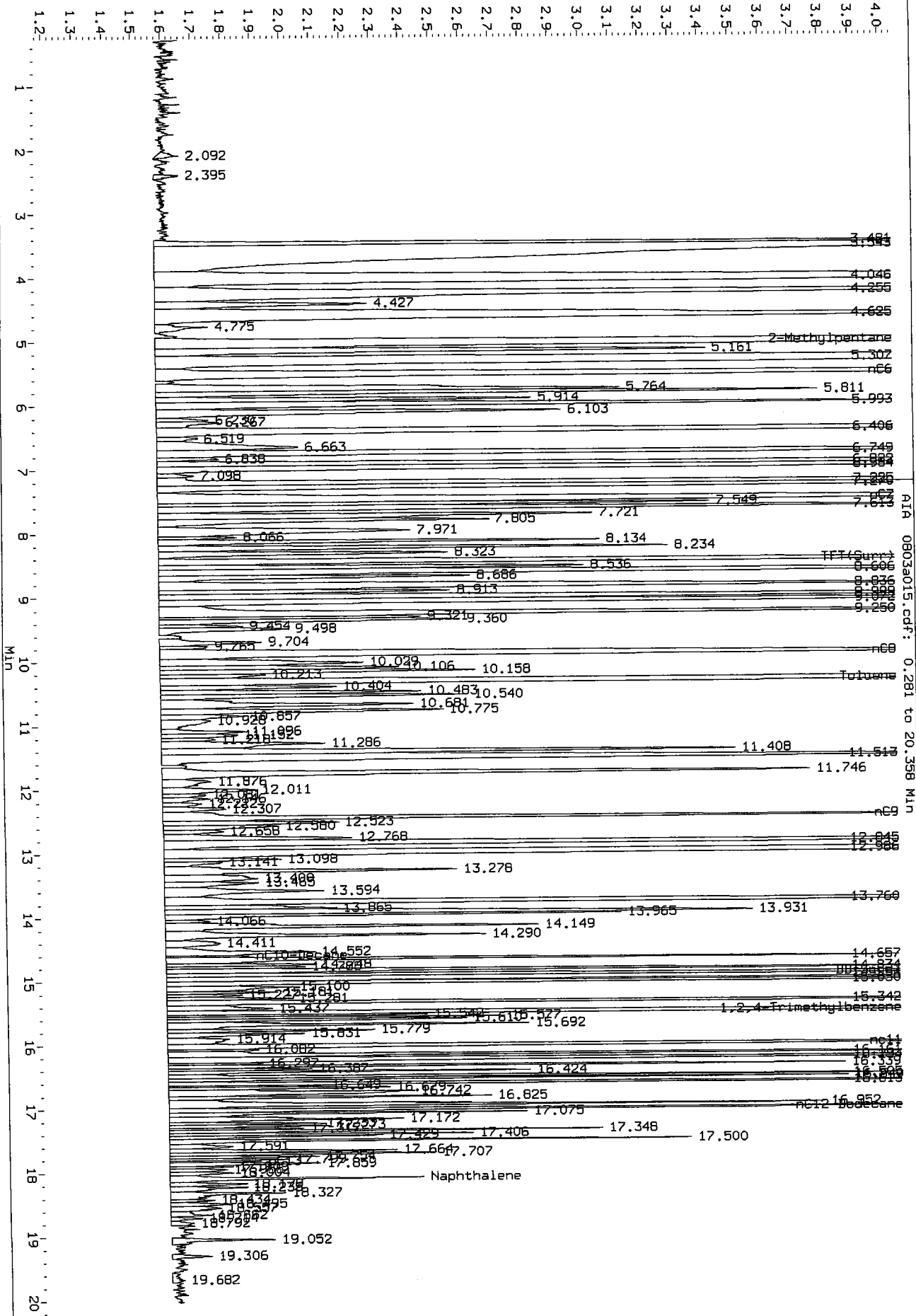
Operator: MH
Column diameter: 0.18



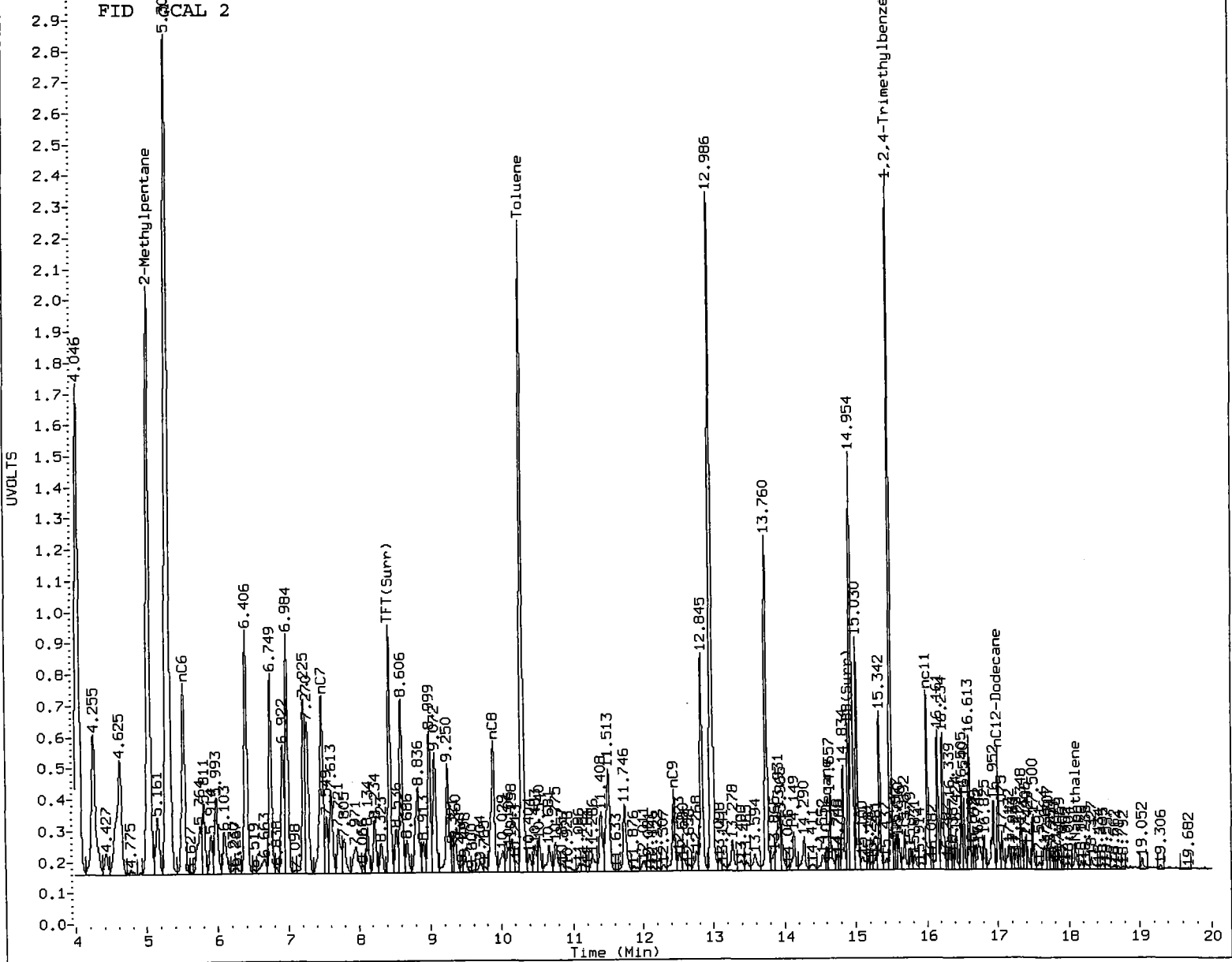
M14
8/5/10

Data File: /chem3/pid3.1/20100803-2.b/0803a015.d/0803a015.cdf
Injection Date: 03-AUG-2010 13:20
Instrument: pid3.1
Client Sample ID:

UVOLTS (x10⁻³)



AIR 0803a015.cdf: 0.281 to 20.358 MIN



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation

5. Other _____

Analyst: MH

Date: 8/5/10

8/15/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100803-2.b/0803a016.d ARI ID: RG60E
Data file 2: /chem3/pid3.i/20100803-1.b/0803a016.d Client ID: PSB13-11-13-072910
Method: /chem3/pid3.i/20100803-1.b/PIDB.m Injection Date: 03-AUG-2010 13:45
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.440	0.031	7755	92353	107.7	TFT(Surr)
14.911	0.023	4540	37694	105.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	77295	0.093
8015B 2MP-TMB (4.92 to 15.58)	1664107	93313	0.056
AK101 nC6-nC10 (5.41 to 14.53)	1131784	87147	0.077
NWTPHG Tol-Nap (10.17 to 18.18)	882029	81916	0.093

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.439	0.031	22723	103.4	TFT(Surr)
14.909	0.023	47440	104.1	BB(Surr)

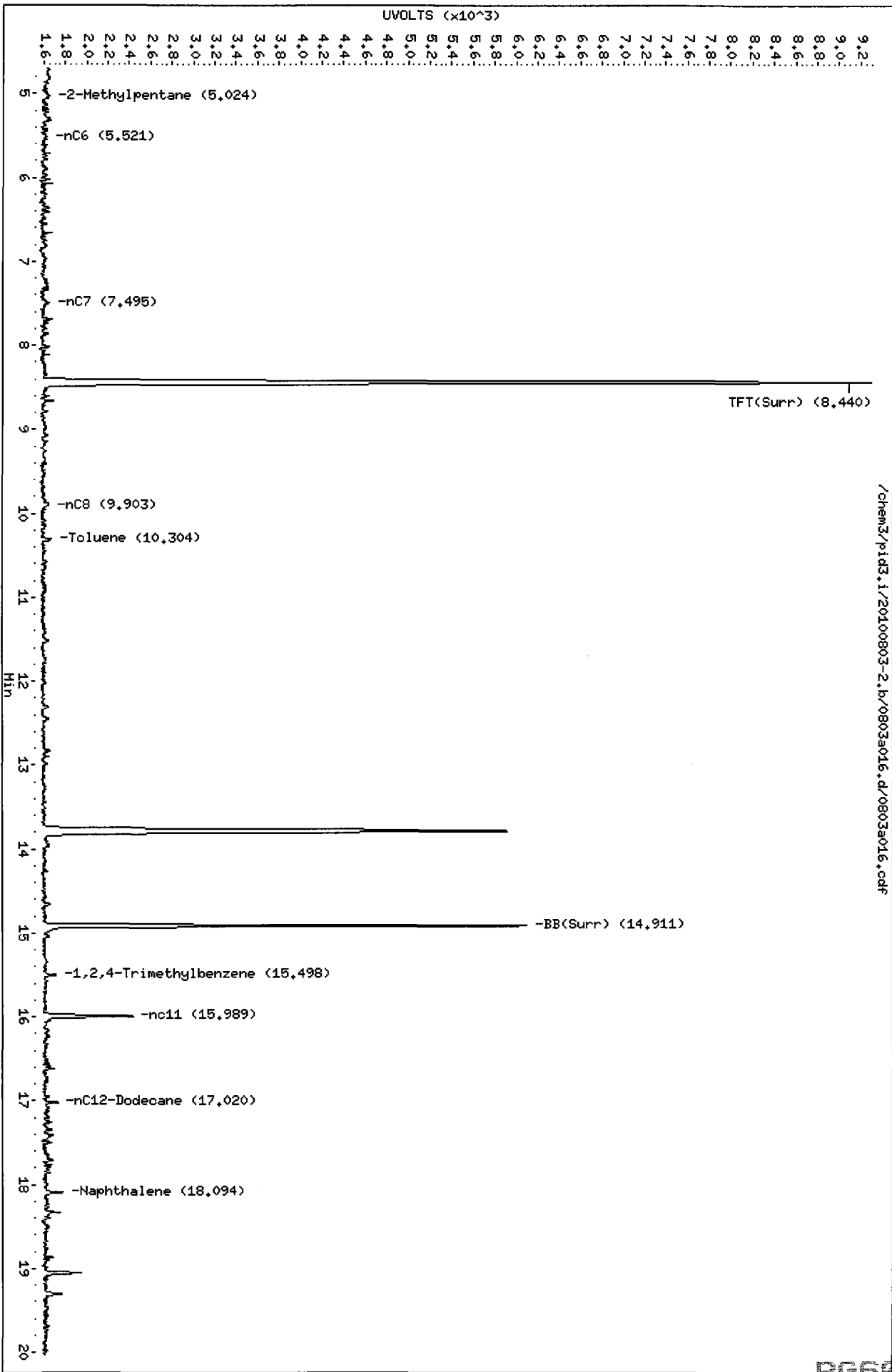
SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100803-2.b/0803a016.d
Date : 03-AUG-2010 13:45
Client ID: PSB13-11-13-072910
Sample Info: RG60E
Column Phase: RTX 502-2 FID

Instrument: pid3.i
Operator: MH
Column diameter: 0.18



Data File: /chem3/pid3.i/20100803-1.b/0803a016.d

Date : 03-AUG-2010 13:45

Client ID: PSB13-11-13-072910

Sample Info: RG60E

Page 1

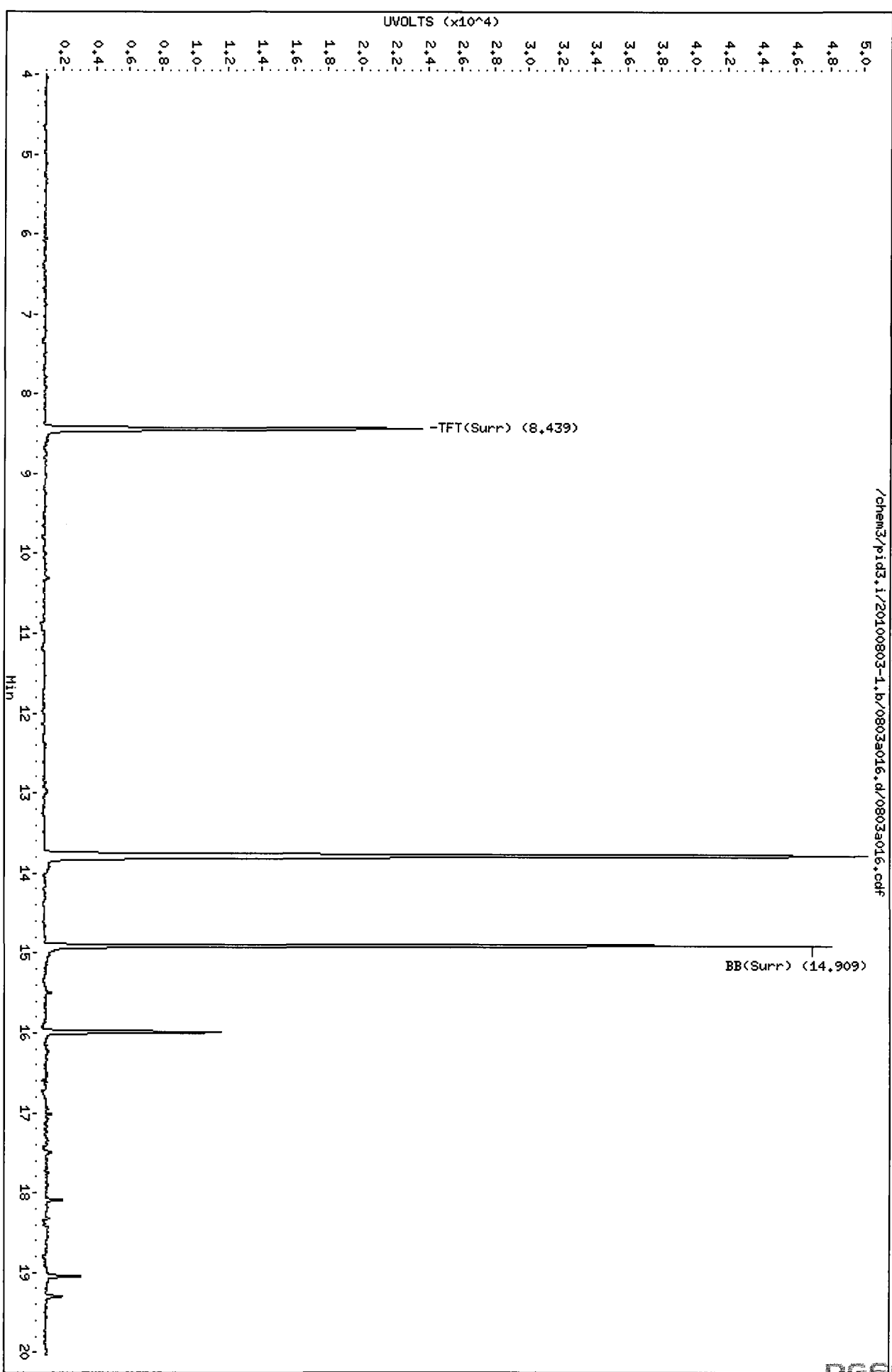
Instrument: pid3.i

Operator: MH

Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem3/pid3.i/20100803-1.b/0803a016.d/0803a016.cdf



8/5/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100803-2.b/0803a017.d ARI ID: RG60F
Data file 2: /chem3/pid3.i/20100803-1.b/0803a017.d Client ID: PSB13-14.5-16.5-072
Method: /chem3/pid3.i/20100803-1.b/PIDB.m Injection Date: 03-AUG-2010 14:10
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.439	0.031	7753	91585	107.7	TFT(Surr)
14.910	0.023	4551	37364	105.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	106401	0.129
8015B 2MP-TMB (4.92 to 15.58)	1664107	96869	0.058
AK101 nC6-nC10 (5.41 to 14.53)	1131784	95691	0.085
NWTPHG Tol-Nap (10.17 to 18.18)	882029	106401	0.121

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.438	0.030	22575	102.7	TFT(Surr)
14.909	0.023	47654	104.5	BB(Surr)

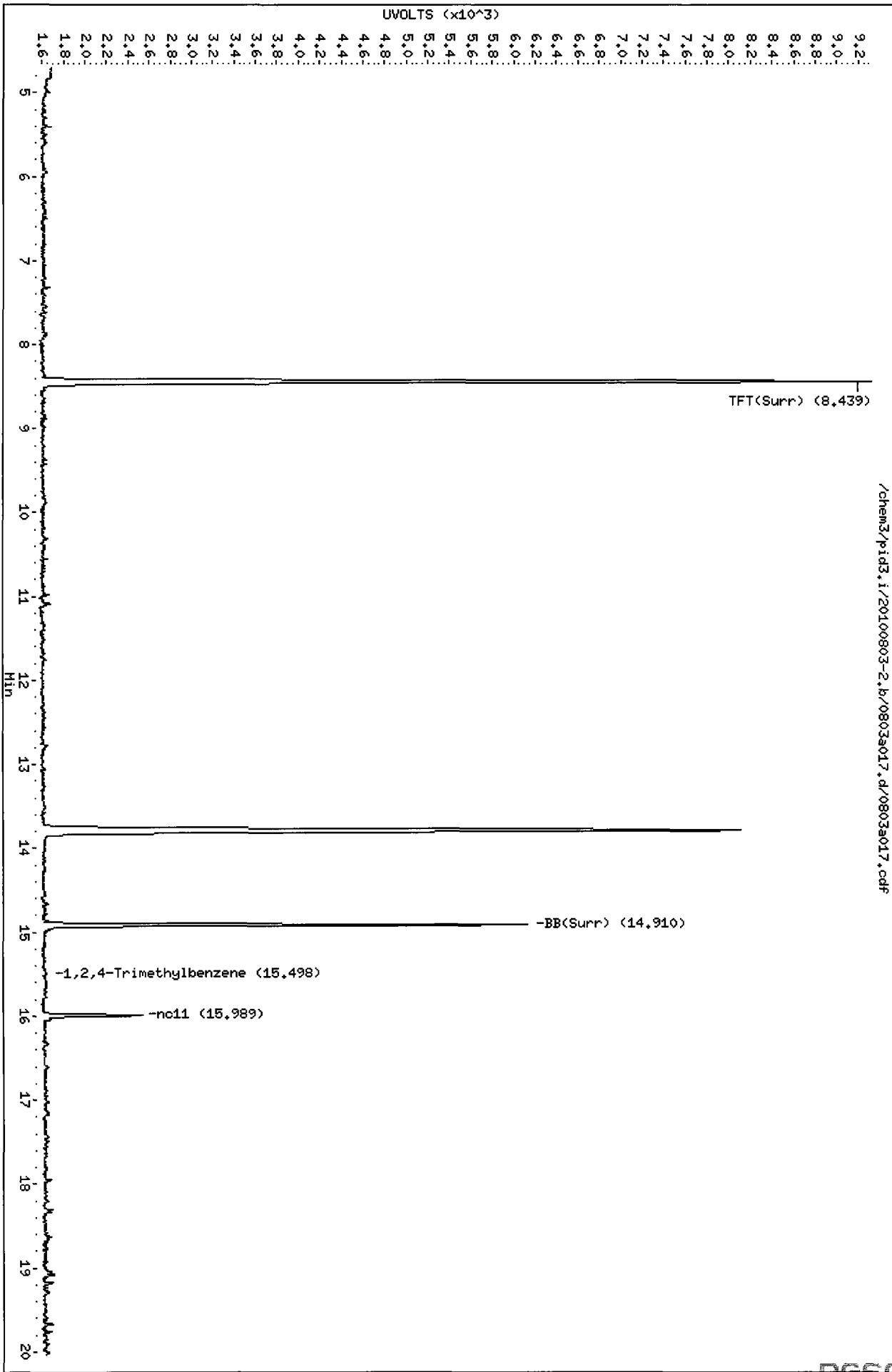
SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100803-2.b/0803a017.d
Date: 03-AUG-2010 14:10
Client ID: PSB13-14.5-16.5-072
Sample Info: RG60F
Column phase: RTX 502-2 FID

Instrument: pid3.i
Operator: HH
Column diameter: 0.18



Data File: /chem3/pid3.i/20100803-1.b/0803a017.d

Date : 03-AUG-2010 14:10

Client ID: PSB13-14.5-16.5-072

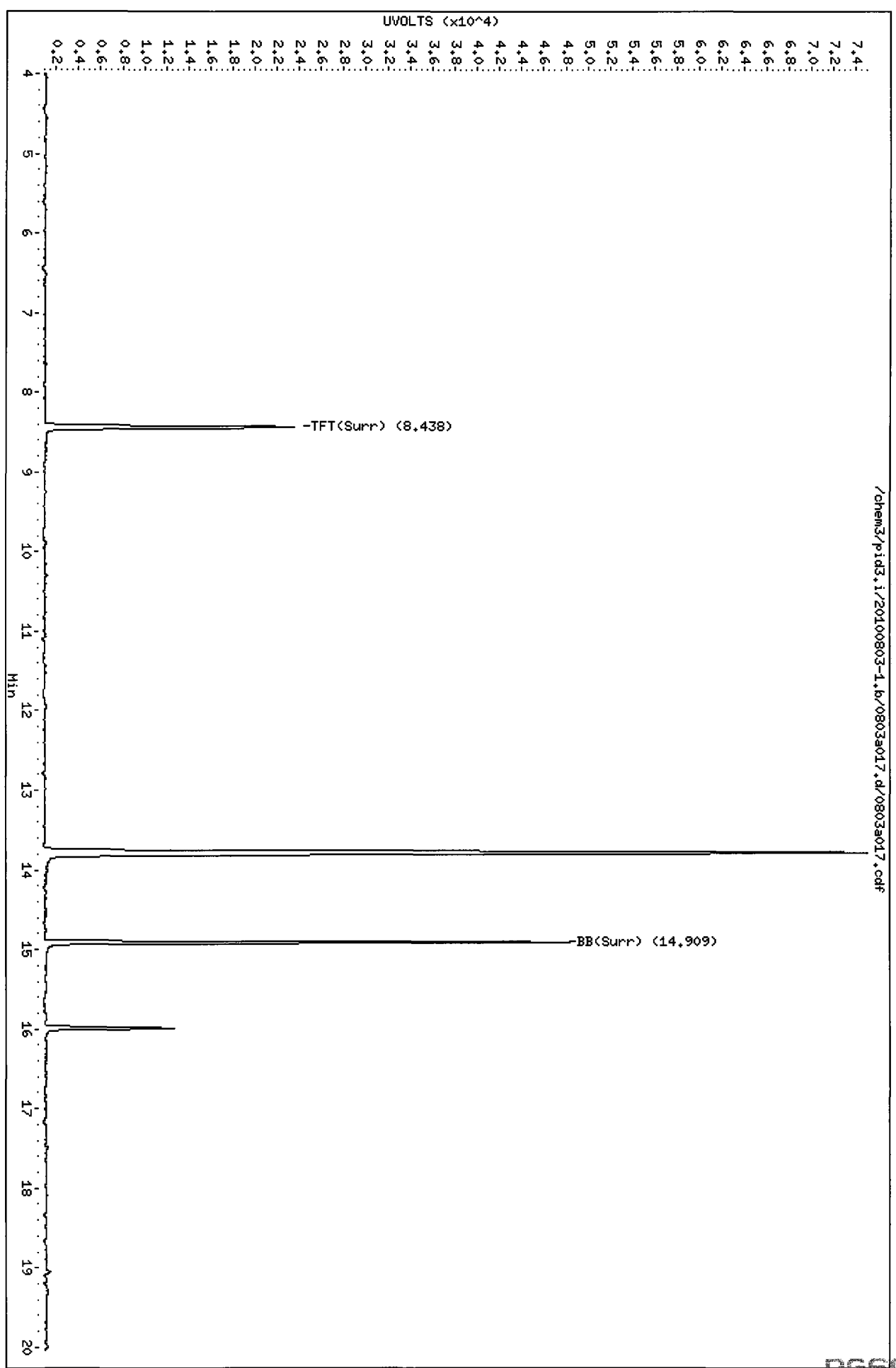
Sample Info: RG60F

Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18



MH
8/5/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100803-2.b/0803a026.d ARI ID: BCAL3
Data file 2: /chem3/pid3.i/20100803-1.b/0803a026.d Client ID: BCAL3
Method: /chem3/pid3.i/20100803-1.b/PIDB.m Injection Date: 03-AUG-2010 17:51
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.443	-0.001	7666	90233	106.5	TFT(Surr)
14.912	0.000	4509	35847	104.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.21 to 17.12)	827807	577930	0.698
8015B 2MP-TMB (4.94 to 15.60)	1664107	588032	0.353
AK101 nC6-nC10 (5.43 to 14.51)	1131784	551349	0.487
NWTPHG Tol-Nap (10.21 to 18.19)	882029	577930	0.655

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.442	0.034	22685	103.2	TFT(Surr)
14.911	0.025	46995	103.1	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.717	0.029	35403	26.78	Benzene
10.309	0.038	35446	26.86	Toluene
12.843	0.039	32457	26.12	Ethylbenzene
12.981	0.039	70492	52.35	M/P-Xylene
13.759	0.035	34151	26.58	O-Xylene
5.305	0.017	9536	26.80	MTBE

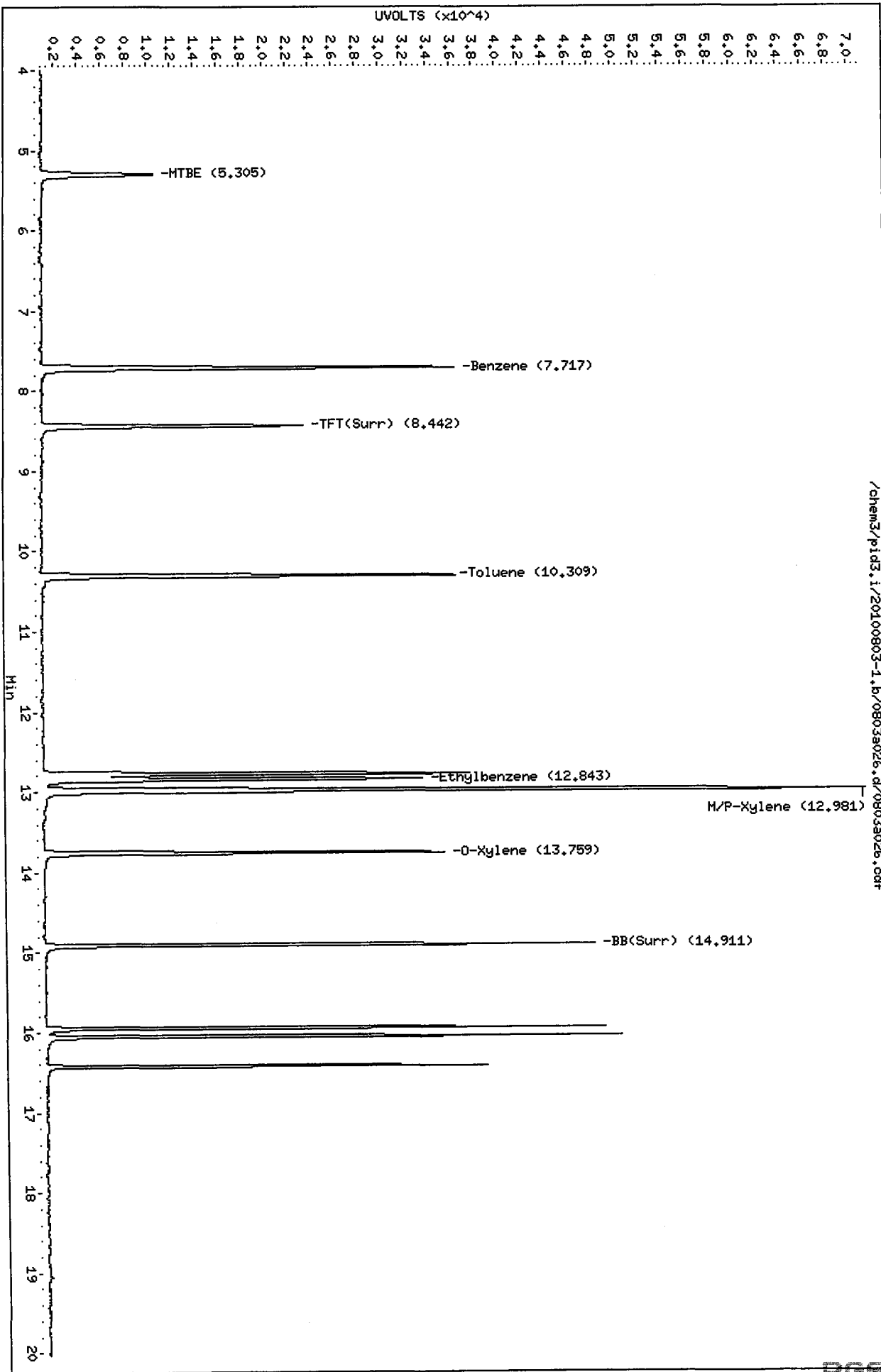
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3,i/20100803-1,b/0803a026.d
Date : 03-AUG-2010 17:51
Client ID: BCAL3
Sample Info: BCAL3

Column phase: RTX 502-2 PID

Instrument: pid3.i
Operator: HH
Column diameter: 0.18

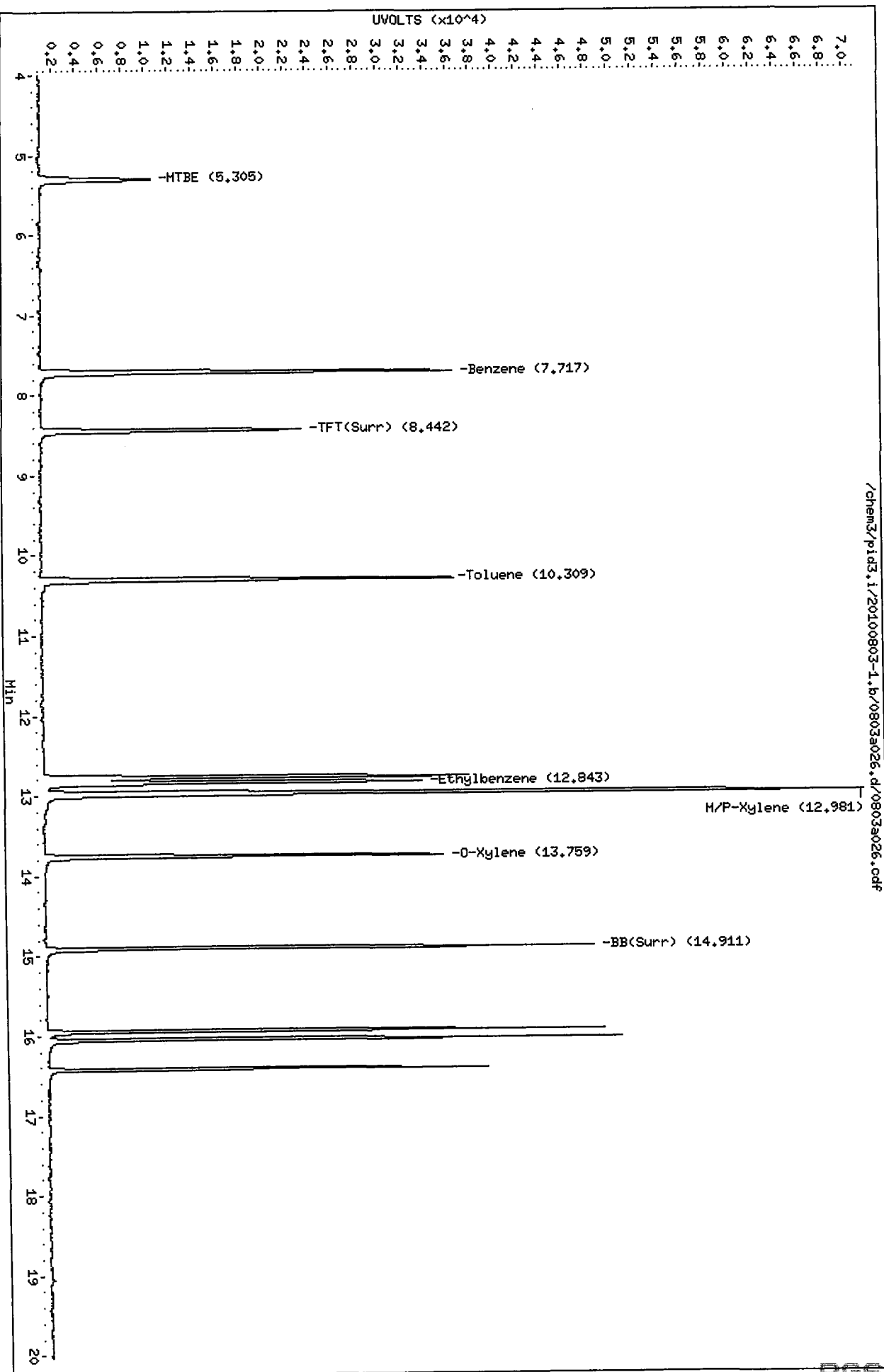
/chem3/pid3,i/20100803-1,b/0803a026.d/0803a026.cdf



Data File: /chem3/pid3.i/20100803-1.b/0803a026.d
Date: 03-AUG-2010 17:51
Client ID: BCAL3
Sample Info: BCAL3

Column phase: RTX 502-2 PID

Instrument: pid3.i
Operator: MH
Column diameter: 0.18



/chem3/pid3.i/20100803-1.b/0803a026.d/0803a026.cdf

Analytical Resources Inc.
 BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100803-2.b/0803a027.d ARI ID: GCAL 3
 Data file 2: /chem3/pid3.i/20100803-1.b/0803a027.d Client ID:
 Method: /chem3/pid3.i/20100803-1.b/PIDB.m Injection Date: 03-AUG-2010 18:16
 Instrument: pid3.i Matrix: WATER
 Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
 BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	----	----	-----
8.440	0.032	7835	93833	108.9	TFT(Surr)
14.911	0.024	4655	38029	108.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (10.17 to 17.11)	827807	2033253	2.456 M
8015B 2MP-TMB (4.92 to 15.58)	1664107	3991386	2.399 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	2663212	2.353 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	2147059	2.434 M

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
 Range marker RT's are set by daily RT standard

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	----	-----
8.439	0.031	22898	104.2	TFT(Surr)
14.910	0.024	48075	105.5	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
7.716	0.028	7368	5.57	Benzene
10.307	0.036	102093	77.35	Toluene
12.841	0.037	29469	23.72	Ethylbenzene
12.982	0.040	114276	84.86	M/P-Xylene
13.757	0.033	46501	36.19	O-Xylene
5.308	0.020	83395	234.39	MTBE

A Indicates Peak Area was used for quantitation instead of Height
 N Indicates peak peak was manually integrated

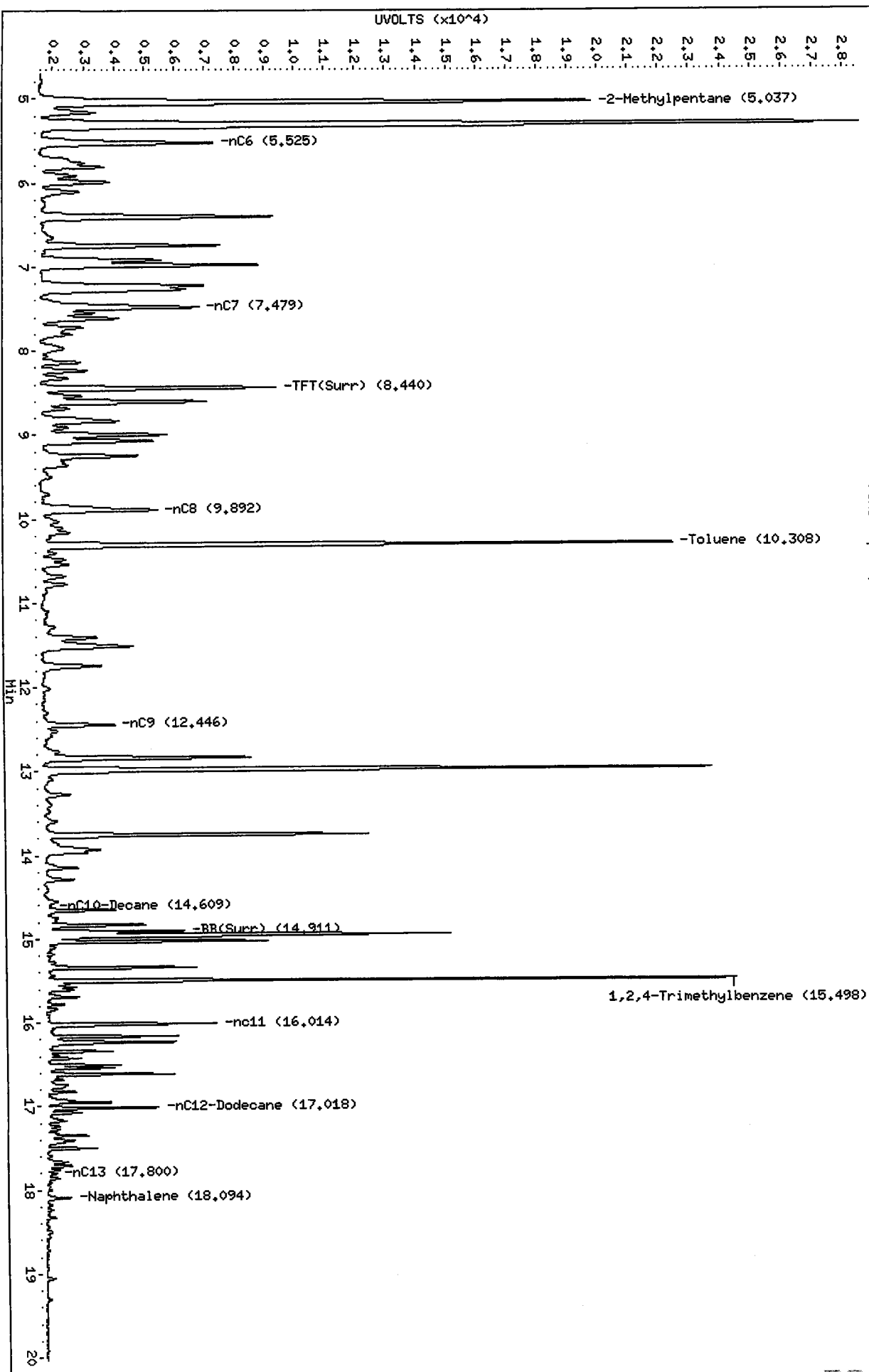
Data File: /chem3/pid3.i/20100803-2.b/0803a027.d
Date: 03-AUG-2010 18:16
Client ID:
Sample Info: CCAL 3

Column phase: RTX 502-2 FID

/chem3/pid3.i/20100803-2.b/0803a027.d/0803a027.cdf

Instrument: pid3.i

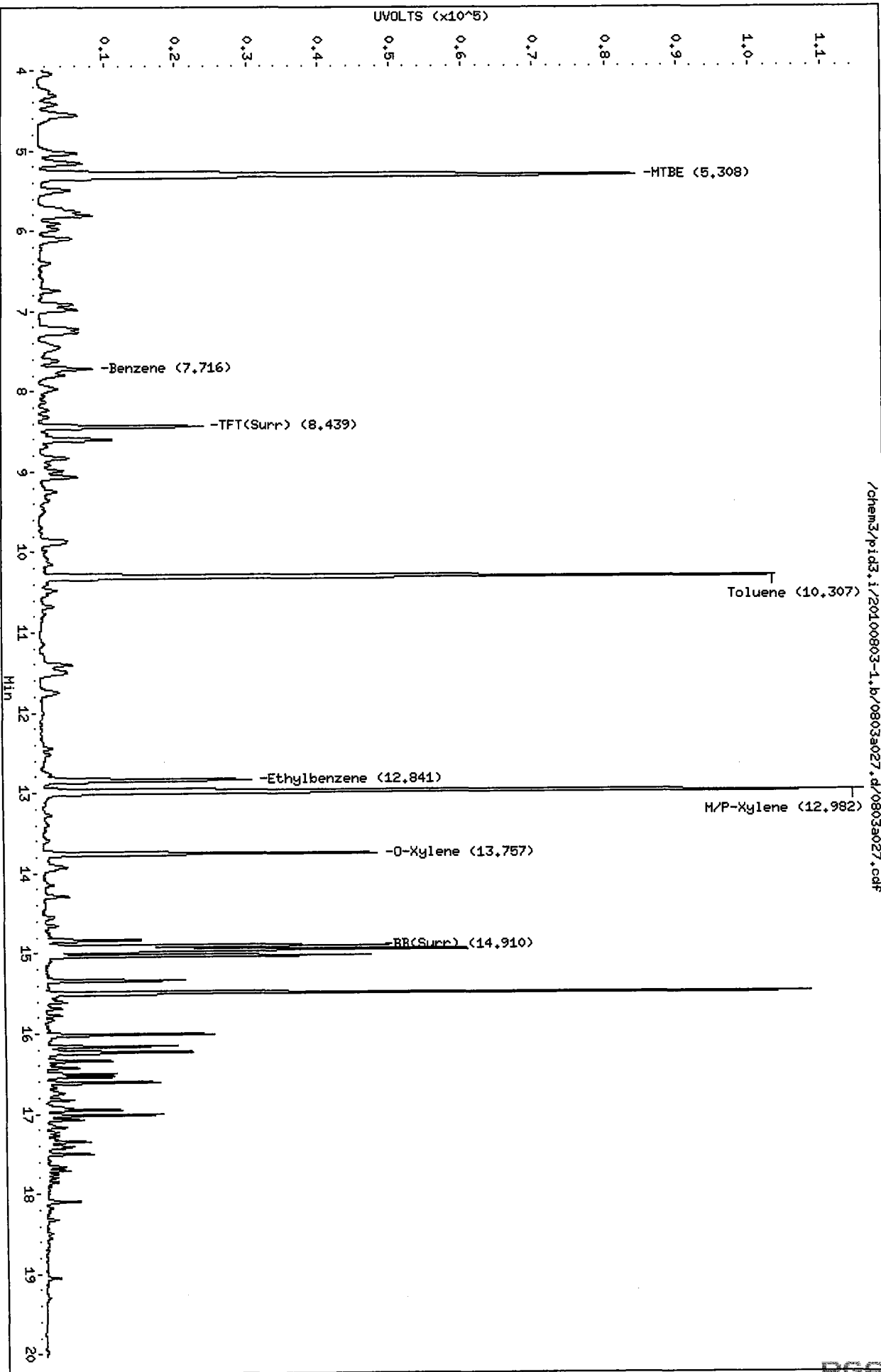
Operator: MH
Column diameter: 0.18



Data File: /chem3/pid3.i/20100803-1.b/0803a027.d
Date : 03-AUG-2010 18:16
Client ID: GCAL 3
Sample Info: GCAL 3

Column phase: RTX 502-2 PID

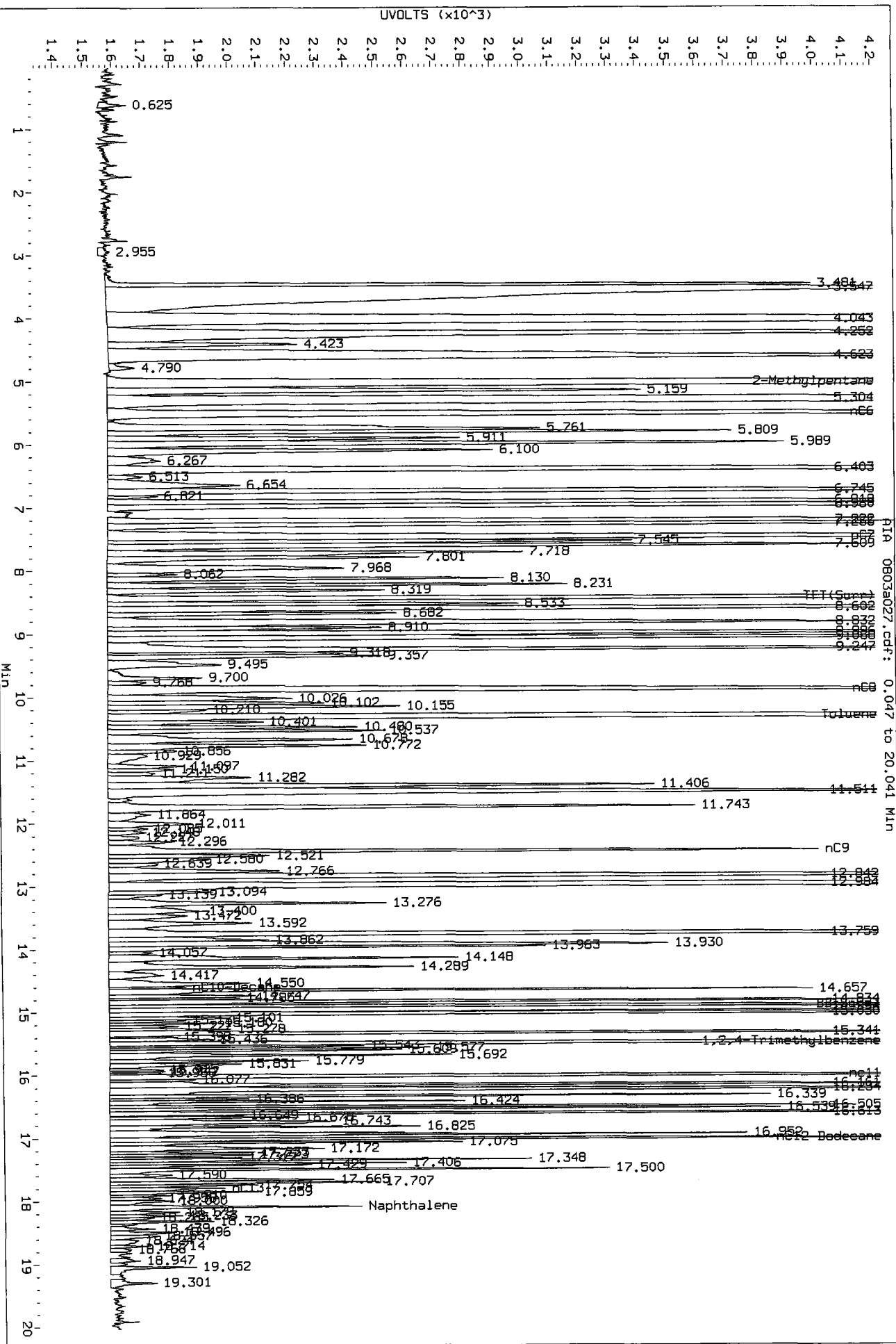
Instrument: pid3.i
Operator: HH
Column diameter: 0.18

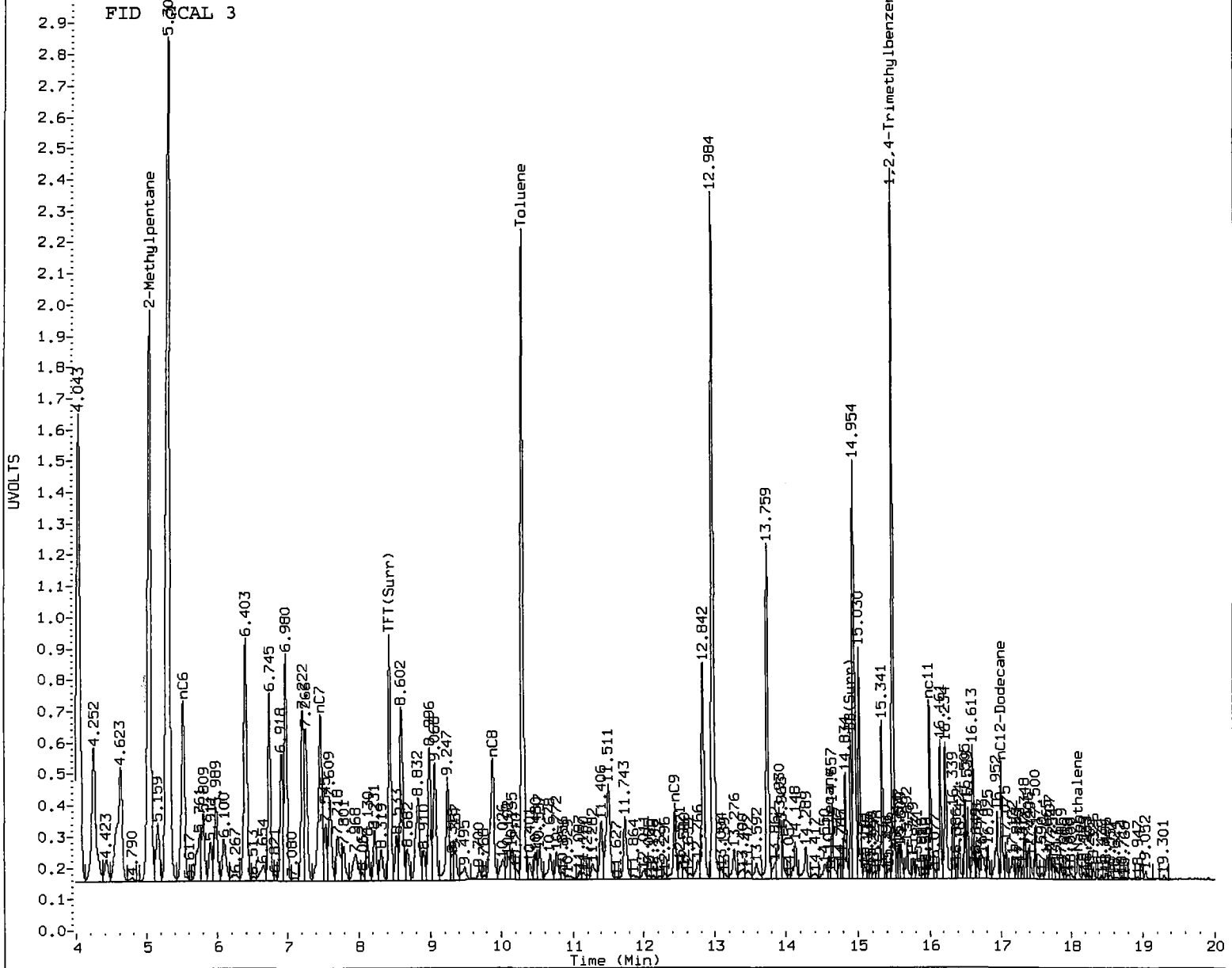


/chem3/pid3.i/20100803-1.b/0803a027.d/0803a027.cdf

MA
8/5/10

Data File: /chem3/pid3.1/20100803-2.b/0803a027.d/0803a027.cdf
Injection Date: 03-AUG-2010 18:15
Instrument: pid3.1
Client Sample ID:





MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH Date: 8/5/10

MH
8/15/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100803-2.b/0803a034.d ARI ID: BCAL 4
Data file 2: /chem3/pid3.i/20100803-1.b/0803a034.d Client ID: BCAL 4
Method: /chem3/pid3.i/20100803-1.b/PIDB.m Injection Date: 03-AUG-2010 21:08
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.440	-0.003	7584	89838	105.4	TFT(Surr)
14.911	-0.001	4649	37281	107.9	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.21 to 17.12)	827807	600935	0.726
8015B 2MP-TMB (4.94 to 15.60)	1664107	614789	0.369
AK101 nC6-nC10 (5.43 to 14.51)	1131784	576478	0.509
NWTPHG Tol-Nap (10.21 to 18.19)	882029	600935	0.681

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.439	0.032	22091	100.5	TFT(Surr)
14.909	0.023	48710	106.8	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.714	0.027	36516	27.62	Benzene
10.306	0.035	36479	27.64	Toluene
12.841	0.036	33159	26.68	Ethylbenzene
12.978	0.036	72144	53.57	M/P-Xylene
13.757	0.033	35621	27.72	O-Xylene
5.304	0.016	9546	26.83	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100803-2.b/0803a034.d

Date: 03-AUG-2010 21:08

Client ID:

Sample Info: BCL 4

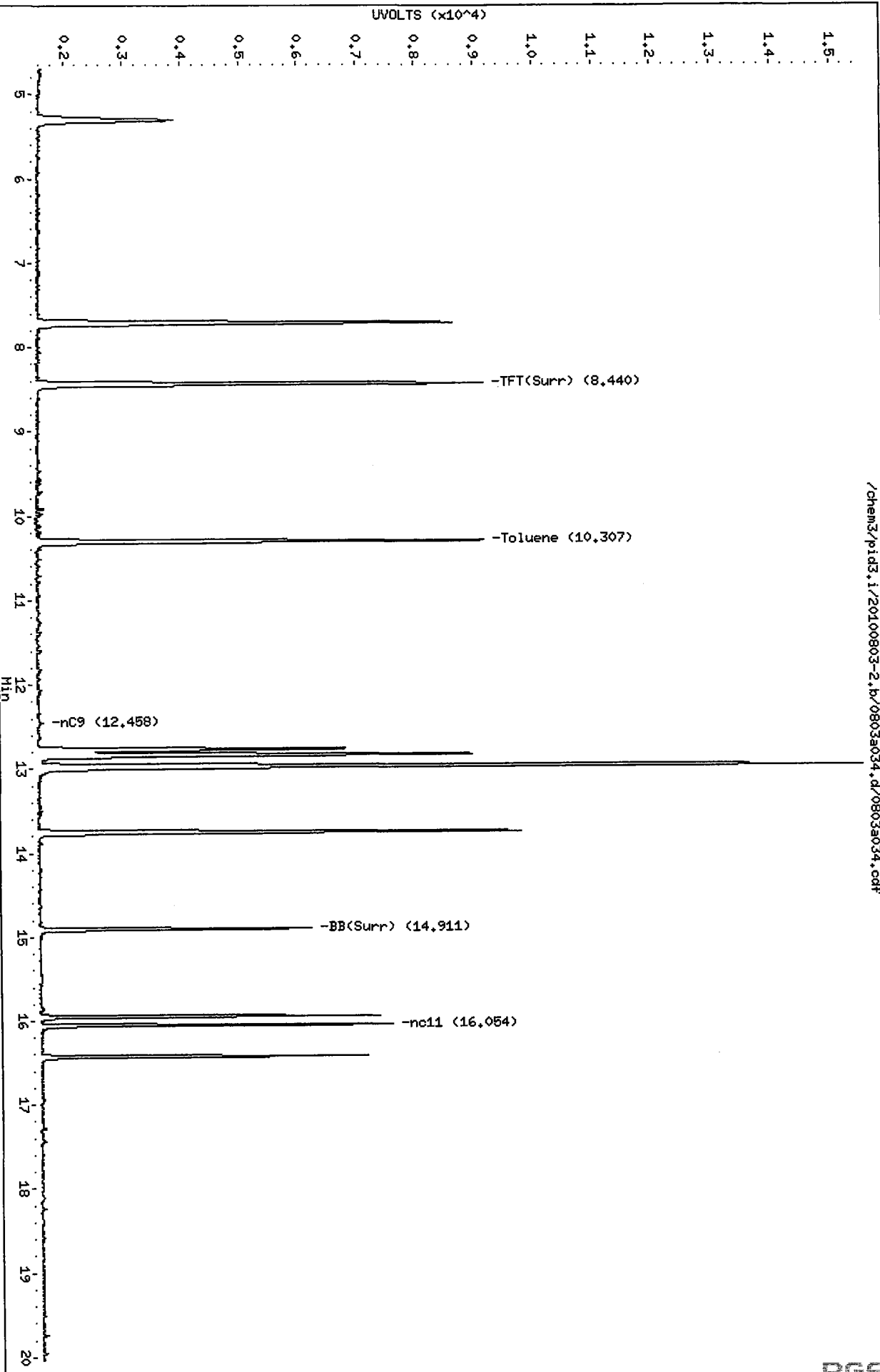
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

/chem3/pid3.i/20100803-2.b/0803a034.d/0803a034.cdf

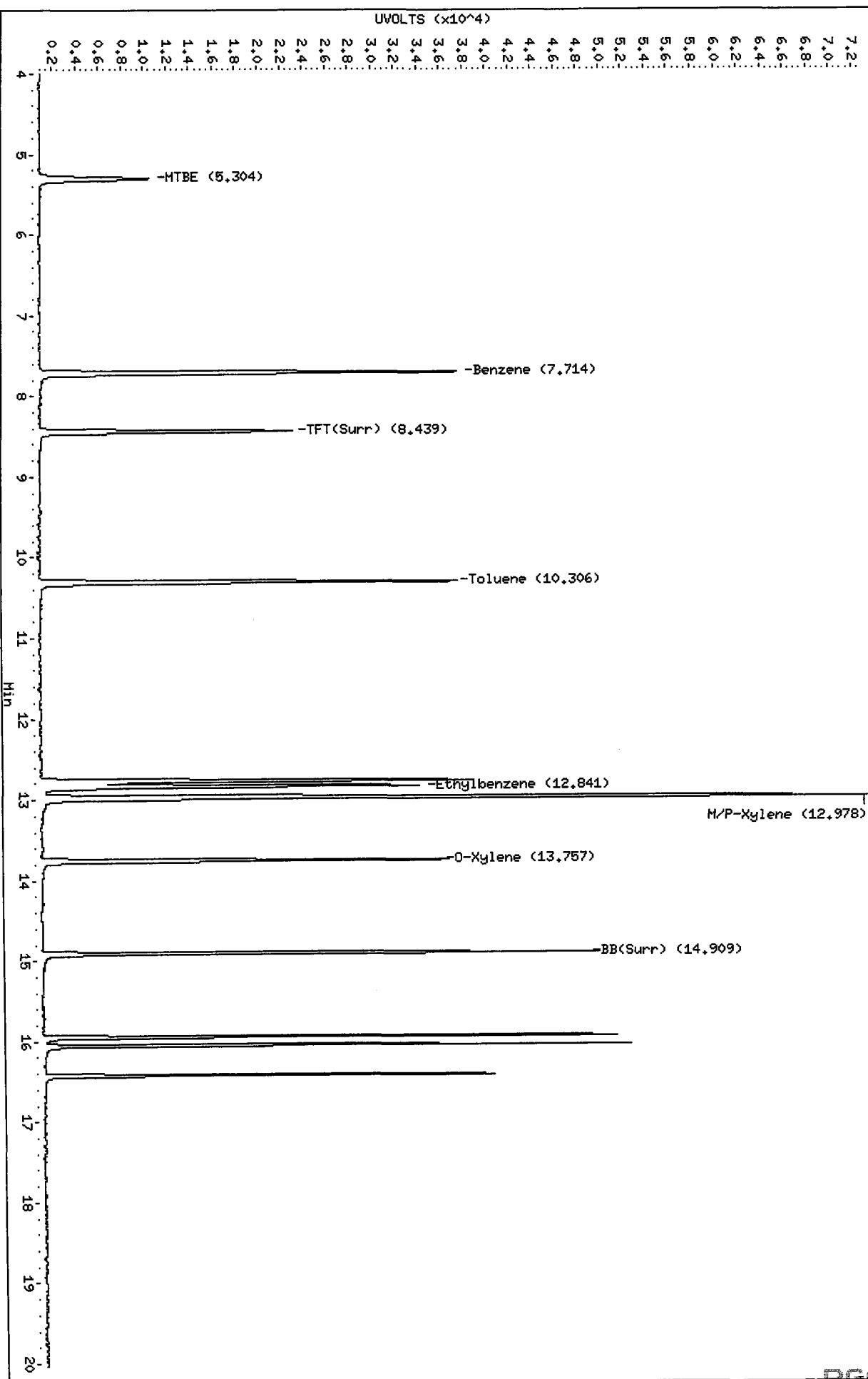


Data File: /chem3/pid3.i/20100803-1.b/0803a034.d
Date: 03-AUG-2010 21:08
Client ID: BCAL 4
Sample Info: BCAL 4

Column phase: RTX 502-2 PID

Instrument: pid3.i
Operator: HH
Column diameter: 0.18

/chem3/pid3.i/20100803-1.b/0803a034.d/0803a034.cdf



MH
8/5/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100803-2.b/0803a035.d ARI ID: GCAL 4
Data file 2: /chem3/pid3.i/20100803-1.b/0803a035.d Client ID:
Method: /chem3/pid3.i/20100803-1.b/PIDB.m Injection Date: 03-AUG-2010 21:32
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.439	0.031	7676	92144	106.6	TFT(Surr)
14.911	0.024	4765	37796	110.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	1918976	2.318 M
8015B 2MP-TMB (4.92 to 15.58)	1664107	3757672	2.258 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	2475978	2.188 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	2026436	2.297 M

M Indicates manual integration within range

* Surrogate areas are subtracted from Total Area
Range marker RT's are set by daily RT standard

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.438	0.031	22400	101.9	TFT(Surr)
14.909	0.023	48945	107.4	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.715	0.027	7565	5.72	Benzene
10.306	0.035	102897	77.96	Toluene
12.841	0.036	29575	23.80	Ethylbenzene
12.982	0.040	114676	85.16	M/P-Xylene
13.756	0.032	47530	36.99	O-Xylene
5.307	0.019	87321	245.42	MTBE

A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100803-2.b/0803a035.d

Date: 03-AUG-2010 21:32

Client ID:

Sample Info: GCAL 4

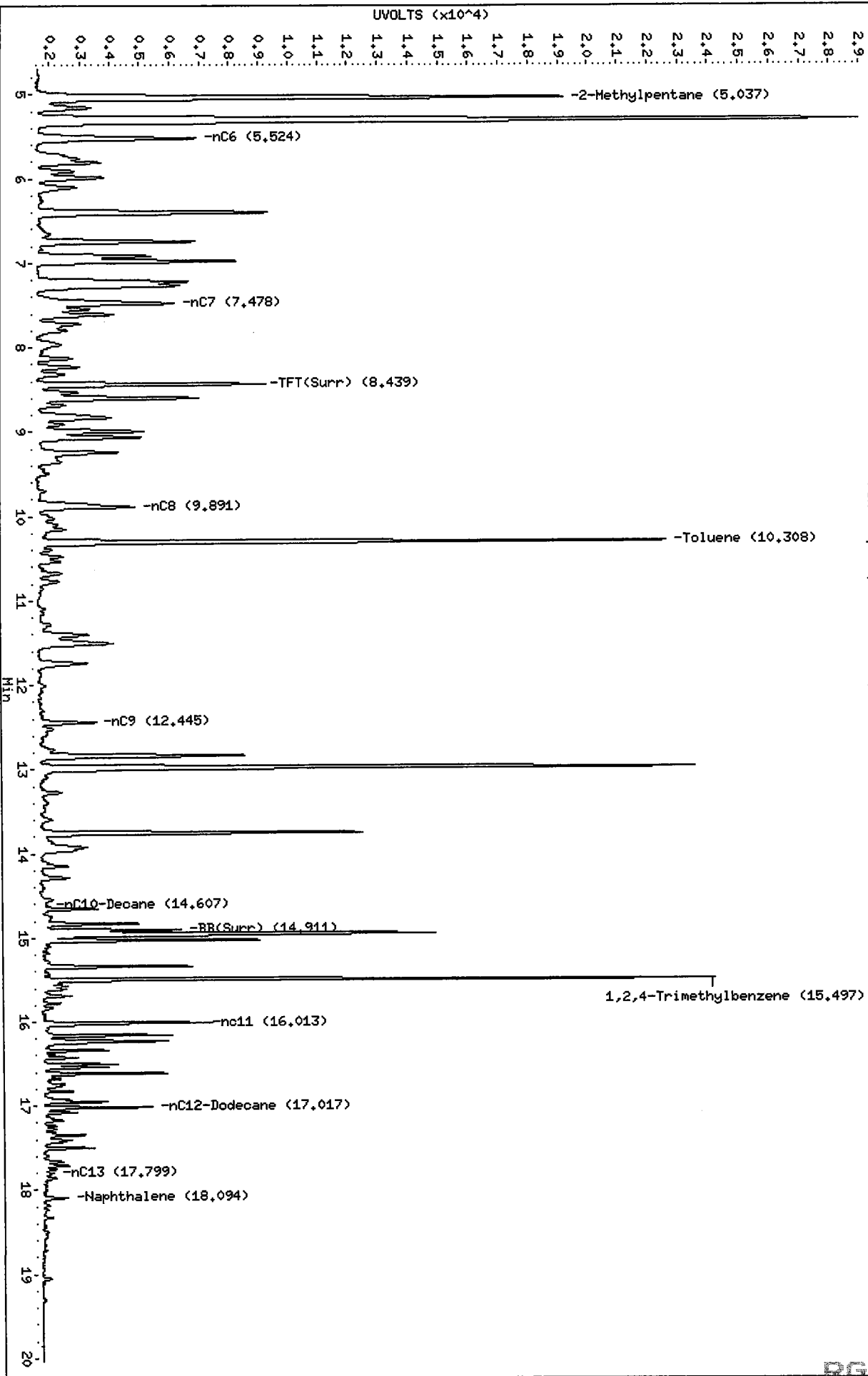
Instrument: pid3.i

Operator: HH

Column diameter: 0.18

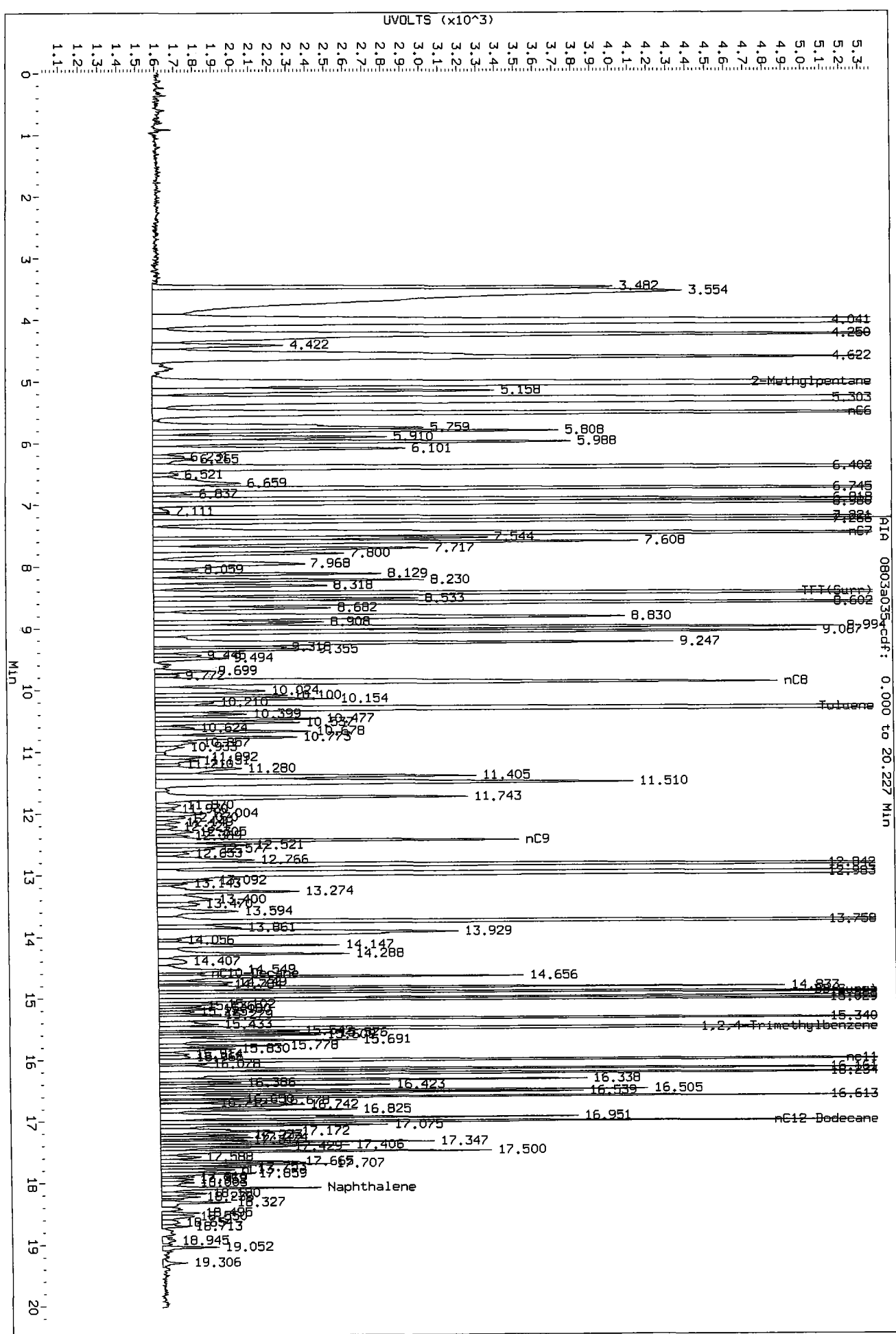
Column phase: RTX 502-2 FID

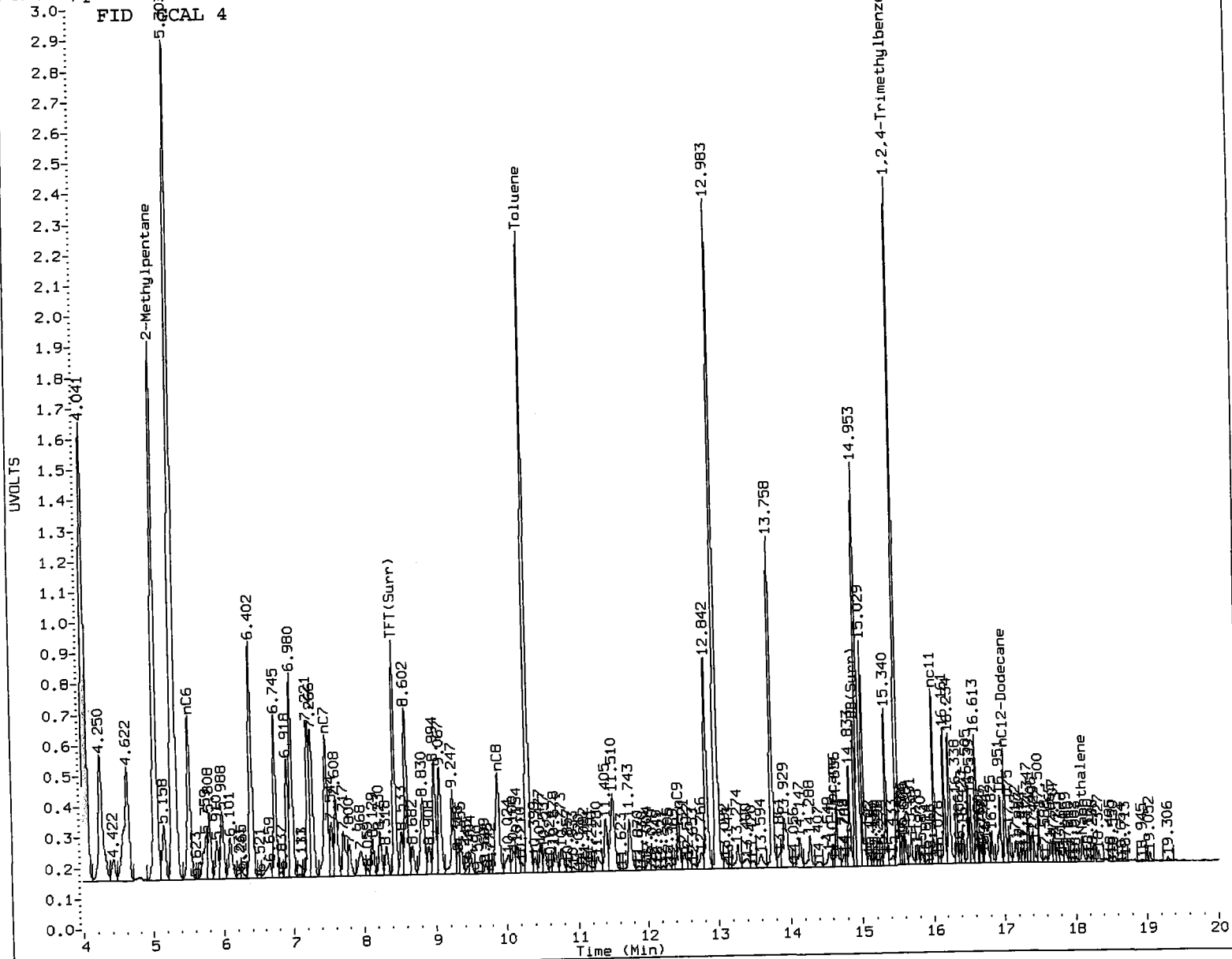
/chem3/pid3.i/20100803-2.b/0803a035.d/0803a035.cdf



MH
4/5/10

Data File: /chem3/pid3.1/20100803-2.b/0803a035.d/0803a035.cdf
Injection Date: 03-AUG-2010 21:32
Instrument: pid3.1
Client Sample ID: LORA LAKE





MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: MH

Date: 8/5/10

**Metals Raw Data
Preparation Bench Sheets and Notes**

ARI Job ID: RG60



Digestion Log

Analyst: DM
Matrix: Soil

Date: 8-03-10
Block Temp: 90°C

ARI Sample ID	Btl #	pH<2	Prep Code: <u>SWC</u>		Prep Code:		Comments
			Initial Wt (g) Vol (mL)	Final Vol (mL)	Initial Wt (g) Vol (mL)	Final Vol (mL)	
RH00 A	7	-	1.052	50.0			
" B	7	-	1.031				
" C	7	-	1.078				
" MB	-	-	-				
" MBSPK	-	-	-				
RG60 A	6	-	1.060				
" ADUP	6	-	1.063				
" ASPK	6	-	1.063				
" B	7	-	1.086				
" C	7	-	1.021				
" D	7	-	1.052				
" E	7	-	1.037				
" F	7	-	1.041				
" REF1	D053	-	1.003				
" MB1	-	-	-	↓			
" MB1SPK	-	-	-	50.0			
8-3-10 DM							

Chemical/Reagent ID:
 HNO₃: MP1026/ISS47 HCl: ISS48 H₂O₂: ISS12 Tube Lot #: 1005282

**Metals Raw Data
Run Logs, Calibrations, and Raw Data**

ARI Job ID: RG60



IEC Date: 7.6.10

Analysis Date: 8.9.10

Analyst: BW

LR Date: 7.12.10

Page: 1 of 5

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		std 0			noisy
		0			Sc climbing
		0			noisy
		0			2738-8
		2			noisy
		2			2748-11
		3			2749-1
		4			↓ -2
		↓ 5			↓ -3
2		222222			
↓		222222			Cu high
		std 0			
		ICV			
		ICB			
		CR1			Cu low - A.N.
		ICSA			
		ICSA B			
		CCV1			
		CCB1			
		DI check			
		RH30 MB	suc	2	
		QC21			✓
		QC74			✓
✓		RH30 A	suc	2	Fe high - remn '15



IEC Date: _____

Analysis Date: 8.9.10

Analyst: Bob

LR Date: _____

Page: 2 of 5

All corrections made by analyst unless otherwise noted. Bob 8.9.10

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		RH30 B	SXC	2	
		↓ C	↓	↓	
		RH51 A			
		↓ B	↓	↓	
		RH30 MBsph	↓	↓	✓
		CCV2			
		CCB2			
		RH51 MB1	SXC	2	
		RG24 A	WMW		
		↓ B	↓		
label		RH30 A	SXC	5	
		RH51 C		2	
		↓ Dsp	↓	↓	✓
		↓ D	↓	↓	✓
2		↓ MBsph	↓	↓	✓
		↓ MBsph	↓	↓	✓
		CCV3			
		CCB3			
		RG47 MB	SXC	2	
		RG42 MB	↓	↓	
		RG24 MB	WMW		
		↓ D	↓		
		↓ E	↓		



IEC Date: Analysis Date: 8.9.10 Analyst: BW
LR Date: Page: 3 of 5

All corrections made by analyst unless otherwise noted. BW 8.9.10

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		RG24 F	WMN		
		↓ G	↓		
		RG42 A	SUC	2	
		↓ B	↓	↓	
		RG24 HBSph	WMN		✓
		CCV4			axial sl. noisy
		CCB4			
		CCV5			Na589 Sn low
		CCB5			
		RG24 C	WMN		
		RG42 C	SUC	2	
		↓ D	↓	↓	
		↓ E	↓	↓	
		RG47 A		5	
	✓	RG60 B		2	noisy - rem
		↓ C	↓	↓	
	✓	↓ D	↓	↓	Fe high - rem 1/5
		RG67 HBSph			✓
		RG42 HBSph	↓	↓	✓
		CCV6			Na589 Sn low
		CCB6			
		RG60 HBI	SUC	2	
	✓	RG76 Q	↓	↓	Fe high - rem 1/5
		RG60 E	↓	↓	



IEC Date: _____
LR Date: _____

Analysis Date: 8.9.10

Analyst: BW
Page: 4 of 5

All corrections made by analyst unless otherwise noted.

BW 8.10.10

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		RG60 F	SXC	2	
		↓ Adip	↓	↓	✓
		↓ A	↓	↓	
		↓ Asp	↓	↓	✓
2		222222			
		↓ Acos	↓	↓	✓
		↓ Ref	↓	↓	✓
		↓ MBSpk	↓	↓	✓
		CCV7			B Na589 Sn low
		CCB7			end package
	✓	RG76 MB	SXC	2	CV bot
		RG49 MB	WMN		
		↓ A	↓	↓	
		↓ B	↓	↓	
		↓ C	↓	↓	
	✓	RG76 R	SXC	2	CV out
		↓ S	↓	↓	↓
		↓ T	↓	↓	
		↓ MBSpk	↓	↓	
		RG49 MBSpk	WMN		✓ 0.08 ml ICP spk
		CCV			Ag B Na589 Sn low
		CCB			
	✓	RG63 MB	WMN		CV -1.004
		RG49 D	↓	↓	
		↓ E	↓	↓	

[Handwritten signature]

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA

Analysis Date: 8.9.10

ICP 1	Analyst Buo 8.10	Peer H8-10	Comment
Logbook:			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
Calibration:			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
Calibration Verification:			
ICV/CCV	✓	✓	see log
ICB/CCB	✓	✓	↓
Samples:			
RSD's & SD's	✓	✓	see log
Internal Standards	✓	✓	
Carry-over	✓	✓	
Method QC:			
CRI/CRA	✓	✓	see log
ICSA/ICSAB	✓	✓	
Post Spikes/Serial Dilutions	✓	✓	
Analytic Spikes	✓	✓	
Matrix QC:			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	
Matrix Duplicates	✓	✓	
Method Blanks	✓	✓	
Data Distribution:			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
Necessary Analysts Notes and CAF's	✓	✓	

Nebulizer Parameters: Hg_ReAlign

Analyte	Back Pressure	Flow
All	160.0 kPa	0.55 L/min

8/9/2010 10:59:53 AM Hg ReAlign... Actual peak offset (nm): 0.000
 Drift (nm): -0.000 Slit adjustment: 0

Analysis Begun

Start Time: 8/9/2010 11:02:58 AM	Plasma On Time: 8/9/2010 10:12:27 AM
Logged In Analyst: metals	Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0060101	Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\CRISSET1.sif

Batch ID:

Results Data Set: PE100809

Results Library: C:\pe\metals\Results\Results.mdb

Method Loaded

Method Name: ARIIEC6AN.552AS

Method Last Saved: 7/13/2010 9:41:26 AM

IEC File: IEC44.iec

MSF File:

Method Description: 12Axial Elements

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Al 308.215	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
B 249.677	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Be 313.042	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cd 228.802	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Cr 267.716	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Fe 273.955	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Mg 279.077	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Na 330.237	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ni 231.604	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Si 288.158	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Ti 334.903	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Zn 206.200	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
ScA 357.253	Lin, Calc Int	Peak Area	Axial	n/a	n/a
ScR 361.383	Lin, Calc Int	Peak Area	Radial	n/a	n/a

Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank 1

Date Collected: 8/9/2010 11:03:06 AM

Data Type: Original

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	160.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2100663.5	24416.59	1.16%	100.0	%
ScR 361.383	219935.7	38002.63	17.28%	100.0	%
Ag 328.068†	-207.1	35.83	17.30%	[0.00]	mg/L
Al 308.215†	-226.1	15.86	7.02%	[0.00]	mg/L
As 188.979†	15.7	3.05	19.37%	[0.00]	mg/L
B 249.677†	-15.3	2.77	18.13%	[0.00]	mg/L
Ba 233.527†	22.4	3.53	15.76%	[0.00]	mg/L
Be 313.042†	539.3	88.64	16.44%	[0.00]	mg/L
Ca 317.933†	-98.5	28.73	29.18%	[0.00]	mg/L
Cd 228.802†	220.1	2.78	1.26%	[0.00]	mg/L
Co 228.616†	-155.3	4.81	3.10%	[0.00]	mg/L
Cr 267.716†	-39.9	10.99	27.55%	[0.00]	mg/L
Cu 324.752†	1267.9	19.15	1.51%	[0.00]	mg/L
Fe 273.955†	-15.8	3.21	20.30%	[0.00]	mg/L
K 766.490†	3419.2	687.43	20.10%	[0.00]	mg/L
Mg 279.077†	-54.9	13.14	23.93%	[0.00]	mg/L
Mn 257.610†	65.7	11.10	16.89%	[0.00]	mg/L
Mo 202.031†	21.4	3.47	16.23%	[0.00]	mg/L
Na 589.592†	1632.9	341.25	20.90%	[0.00]	mg/L
Na 330.237†	-234.7	48.92	20.84%	[0.00]	mg/L
Ni 231.604†	-62.6	7.42	11.85%	[0.00]	mg/L
Pb 220.353†	273.8	6.28	2.29%	[0.00]	mg/L
Sb 206.836†	168.0	4.65	2.77%	[0.00]	mg/L
Se 196.026†	-79.3	6.15	7.76%	[0.00]	mg/L
Si 288.158†	2.9	8.90	304.08%	[0.00]	mg/L
Sn 189.927†	-5.1	2.95	57.65%	[0.00]	mg/L
Sr 421.552†	462.7	32.98	7.13%	[0.00]	mg/L
Ti 334.903†	227.1	34.75	15.31%	[0.00]	mg/L
Tl 190.801†	-14.0	2.98	21.22%	[0.00]	mg/L
V 292.402†	533.0	2.32	0.44%	[0.00]	mg/L
Zn 206.200†	-17.4	5.05	29.02%	[0.00]	mg/L

User canceled analysis.

=====
Analysis Begun

Start Time: 8/9/2010 11:08:20 AM Plasma On Time: 8/9/2010 10:12:27 AM
Logged In Analyst: metals Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0060101 Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\CRISSET1.sif
Batch ID:
Results Data Set: PE100809
Results Library: C:\pe\metals\Results\Results.mdb

=====
Sequence No.: 1 Autosampler Location: 1
Sample ID: Calib Blank 1 Date Collected: 8/9/2010 11:08:22 AM
Data Type: Original

Nebulizer Parameters: Calib Blank 1

Analyte Back Pressure Flow
All 160.0 kPa 0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2097306.3	14596.66	0.70%	99.84	%
ScR 361.383	238085.5	2137.19	0.90%	108.3	% ✓
Ag 328.068†	-152.5	32.81	21.51%	[0.00]	mg/L
Al 308.215†	-207.9	10.05	4.84%	[0.00]	mg/L
As 188.979†	14.1	2.08	14.78%	[0.00]	mg/L
B 249.677†	-19.7	2.90	14.72%	[0.00]	mg/L
Ba 233.527†	25.4	1.73	6.82%	[0.00]	mg/L
Be 313.042†	482.8	16.68	3.46%	[0.00]	mg/L
Ca 317.933†	-81.1	26.20	32.30%	[0.00]	mg/L
Cd 228.802†	222.2	2.10	0.95%	[0.00]	mg/L
Co 228.616†	-162.4	2.77	1.71%	[0.00]	mg/L
Cr 267.716†	-41.8	1.40	3.34%	[0.00]	mg/L
Cu 324.752†	1293.0	4.15	0.32%	[0.00]	mg/L
Fe 273.955†	-14.4	0.59	4.10%	[0.00]	mg/L
K 766.490†	3209.5	38.11	1.19%	[0.00]	mg/L
Mg 279.077†	-43.5	6.58	15.11%	[0.00]	mg/L
Mn 257.610†	62.0	3.45	5.57%	[0.00]	mg/L
Mo 202.031†	24.6	1.41	5.74%	[0.00]	mg/L
Na 589.592†	1488.6	64.15	4.31%	[0.00]	mg/L
Na 330.237†	-213.8	6.59	3.08%	[0.00]	mg/L
Ni 231.604†	-56.0	1.98	3.54%	[0.00]	mg/L
Pb 220.353†	284.3	3.40	1.19%	[0.00]	mg/L
Sb 206.836†	164.7	0.97	0.59%	[0.00]	mg/L
Se 196.026†	-72.4	6.04	8.35%	[0.00]	mg/L
Si 288.158†	6.2	6.90	111.57%	[0.00]	mg/L
Sn 189.927†	-8.2	2.36	28.89%	[0.00]	mg/L
Sr 421.552†	417.5	36.74	8.80%	[0.00]	mg/L
Ti 334.903†	199.2	26.97	13.54%	[0.00]	mg/L
Tl 190.801†	-15.2	4.90	32.20%	[0.00]	mg/L
V 292.402†	506.6	15.16	2.99%	[0.00]	mg/L
Zn 206.200†	-14.7	1.57	10.72%	[0.00]	mg/L

=====
Analysis Begun

Start Time: 8/9/2010 11:13:00 AM Plasma On Time: 8/9/2010 10:12:27 AM
Logged In Analyst: metals Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0060101 Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\CRISSET1.sif
Batch ID:
Results Data Set: PE100809
Results Library: C:\pe\metals\Results\Results.mdb

=====
Sequence No.: 1 Autosampler Location: 1
Sample ID: Calib Blank 1 Date Collected: 8/9/2010 11:13:02 AM
Data Type: Original

Nebulizer Parameters: Calib Blank 1
Analyte Back Pressure Flow
All 160.0 kPa 0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	2055911.2	130396.35	6.34%	100.0	%
ScR 361.383	239731.1	475.93	0.20%	100.0	%
Ag 328.068†	-191.3	41.07	21.47%	[0.00]	mg/L
Al 308.215†	-227.4	16.66	7.33%	[0.00]	mg/L
As 188.979†	17.9	4.31	24.13%	[0.00]	mg/L
B 249.677†	-18.1	2.53	13.94%	[0.00]	mg/L
Ba 233.527†	27.9	3.94	14.15%	[0.00]	mg/L
Be 313.042†	538.0	10.51	1.95%	[0.00]	mg/L
Ca 317.933†	-92.7	16.87	18.21%	[0.00]	mg/L
Cd 228.802†	221.4	12.40	5.60%	[0.00]	mg/L
Co 228.616†	-152.6	16.84	11.03%	[0.00]	mg/L
Cr 267.716†	-36.7	1.22	3.32%	[0.00]	mg/L
Cu 324.752†	1280.2	64.72	5.06%	[0.00]	mg/L
Fe 273.955†	-16.5	1.80	10.88%	[0.00]	mg/L
K 766.490†	3473.0	55.40	1.60%	[0.00]	mg/L
Mg 279.077†	-53.7	8.55	15.91%	[0.00]	mg/L
Mn 257.610†	66.5	2.10	3.15%	[0.00]	mg/L
Mo 202.031†	23.3	1.40	6.00%	[0.00]	mg/L
Na 589.592†	1600.4	57.75	3.61%	[0.00]	mg/L
Na 330.237†	-236.2	3.50	1.48%	[0.00]	mg/L
Ni 231.604†	-65.6	2.31	3.53%	[0.00]	mg/L
Pb 220.353†	279.2	24.82	8.89%	[0.00]	mg/L
Sb 206.836†	167.3	15.18	9.07%	[0.00]	mg/L
Se 196.026†	-78.1	6.01	7.70%	[0.00]	mg/L
Si 288.158†	3.3	7.23	216.03%	[0.00]	mg/L
Sn 189.927†	-4.5	4.06	89.90%	[0.00]	mg/L
Sr 421.552†	414.4	19.88	4.80%	[0.00]	mg/L
Ti 334.903†	219.1	1.20	0.55%	[0.00]	mg/L
Tl 190.801†	-12.5	2.20	17.64%	[0.00]	mg/L
V 292.402†	496.0	58.89	11.87%	[0.00]	mg/L
Zn 206.200†	-13.3	3.02	22.68%	[0.00]	mg/L

=====
Analysis Begun

Start Time: 8/9/2010 11:19:50 AM

Plasma On Time: 8/9/2010 10:12:27 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101 Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\CRISSET1.sif

Batch ID:

Results Data Set: PE100809

Results Library: C:\pe\metals\Results\Results.mdb

=====
Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank 1

Date Collected: 8/9/2010 11:19:52 AM

Data Type: Original

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	161.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected		RSD	Calib	
	Intensity	Std.Dev.		Conc.	Units
ScA 357.253	2155066.6	27532.09	1.28%	100.0	%
ScR 361.383	238264.8	1902.09	0.80%	100.0	%
Ag 328.068†	-203.0	27.75	13.67%	[0.00]	mg/L
Al 308.215†	-230.4	14.59	6.33%	[0.00]	mg/L
As 188.979†	13.3	1.05	7.89%	[0.00]	mg/L
B 249.677†	-18.1	2.82	15.62%	[0.00]	mg/L
Ba 233.527†	29.1	5.82	20.02%	[0.00]	mg/L
Be 313.042†	510.7	5.65	1.11%	[0.00]	mg/L
Ca 317.933†	-85.6	16.44	19.21%	[0.00]	mg/L
Cd 228.802†	224.6	5.51	2.45%	[0.00]	mg/L
Co 228.616†	-160.5	4.68	2.92%	[0.00]	mg/L
Cr 267.716†	-41.2	3.94	9.56%	[0.00]	mg/L
Cu 324.752†	1247.0	22.09	1.77%	[0.00]	mg/L
Fe 273.955†	-15.9	1.96	12.37%	[0.00]	mg/L
K 766.490†	3501.7	50.72	1.45%	[0.00]	mg/L
Mg 279.077†	-49.7	6.51	13.11%	[0.00]	mg/L
Mn 257.610†	71.8	2.54	3.53%	[0.00]	mg/L
Mo 202.031†	26.3	1.03	3.93%	[0.00]	mg/L
Na 589.592†	1595.5	28.16	1.76%	[0.00]	mg/L
Na 330.237†	-252.2	7.02	2.78%	[0.00]	mg/L
Ni 231.604†	-64.6	5.67	8.78%	[0.00]	mg/L
Pb 220.353†	279.3	9.59	3.43%	[0.00]	mg/L
Sb 206.836†	164.2	0.88	0.53%	[0.00]	mg/L
Se 196.026†	-80.5	2.83	3.51%	[0.00]	mg/L
Si 288.158†	6.3	6.24	99.68%	[0.00]	mg/L
Sn 189.927†	-7.3	1.38	18.85%	[0.00]	mg/L
Sr 421.552†	472.3	35.33	7.48%	[0.00]	mg/L
Ti 334.903†	222.2	16.75	7.54%	[0.00]	mg/L
Tl 190.801†	-14.8	3.37	22.73%	[0.00]	mg/L
V 292.402†	487.6	29.95	6.14%	[0.00]	mg/L
Zn 206.200†	-14.9	2.02	13.54%	[0.00]	mg/L

Sequence No.: 2
Sample ID: STD2

Autosampler Location: 2
Date Collected: 8/9/2010 11:25:50 AM
Data Type: Original

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	161.0 kPa	0.55 L/min

Mean Data: STD2

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	2011248.2	256919.07	12.77%	93.33	%
ScR 361.383	250510.4	1564.79	0.62%	105.1	%
Ba 233.527†	69796.8	90.40	0.13%	[10]	mg/L
Cd 228.802†	556274.2	75186.27	13.52%	[10]	mg/L
Co 228.616†	518642.6	69278.72	13.36%	[10]	mg/L
Cr 267.716†	33011.7	59.30	0.18%	[10]	mg/L
Cu 324.752†	2075904.4	283661.87	13.66%	[10]	mg/L
Mn 257.610†	345392.9	59.87	0.02%	[10]	mg/L
V 292.402†	1137614.8	155582.26	13.68%	[10]	mg/L

User canceled analysis.

=====
Analysis Begun

Start Time: 8/9/2010 11:28:56 AM Plasma On Time: 8/9/2010 10:12:27 AM
Logged In Analyst: metals Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0060101 Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\CRISSET1.sif
Batch ID:
Results Data Set: PE100809
Results Library: C:\pe\metals\Results\Results.mdb

=====
Sequence No.: 2 Autosampler Location: 2
Sample ID: STD2 Date Collected: 8/9/2010 11:28:58 AM
Data Type: Original

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	161.0 kPa	0.55 L/min

Mean Data: STD2

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	2204727.5	5372.84	0.24%	102.3	%
ScR 361.383	251347.3	2093.53	0.83%	105.5	%
Ba 233.527†	70012.9	318.24	0.45%	[10]	mg/L
Cd 228.802†	502053.7	470.75	0.09%	[10]	mg/L
Co 228.616†	467431.3	923.44	0.20%	[10]	mg/L
Cr 267.716†	33152.9	118.37	0.36%	[10]	mg/L
Cu 324.752†	1870784.0	3637.96	0.19%	[10]	mg/L
Mn 257.610†	346422.6	1621.71	0.47%	[10]	mg/L
V 292.402†	1028479.3	3692.47	0.36%	[10]	mg/L

Sequence No.: 3
Sample ID: STD3

Autosampler Location: 3
Date Collected: 8/9/2010 11:32:45 AM
Data Type: Original

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	161.0 kPa	0.55 L/min

Mean Data: STD3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units
ScA 357.253	2175410.0	3311.81	0.15%	100.9 %
ScR 361.383	247066.6	2488.46	1.01%	103.7 %
Ag 328.068†	171959.2	772.09	0.45%	[1.0] mg/L
As 188.979†	14837.5	64.41	0.43%	[10] mg/L
B 249.677†	18700.1	131.68	0.70%	[10] mg/L
Be 313.042†	1209759.7	18910.56	1.56%	[5.0] mg/L
Na 589.592†	283744.4	4234.83	1.49%	[50] mg/L
Ni 231.604†	15354.8	61.74	0.40%	[10] mg/L
Pb 220.353†	71425.8	195.67	0.27%	[10] mg/L
Se 196.026†	9901.1	55.26	0.56%	[10] mg/L
Sr 421.552†	2149289.4	29162.63	1.36%	[5] mg/L
Tl 190.801†	18913.3	107.90	0.57%	[10] mg/L
Zn 206.200†	19680.4	109.70	0.56%	[10] mg/L

Sequence No.: 4
Sample ID: STD4

Autosampler Location: 4
Date Collected: 8/9/2010 11:37:52 AM
Data Type: Original

Nebulizer Parameters: STD4

Analyte	Back Pressure	Flow
All	161.0 kPa	0.55 L/min

Mean Data: STD4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2209512.3	11090.80	0.50%	102.5	%
ScR 361.383	248103.7	1024.91	0.41%	104.1	%
Mo 202.031†	104848.6	1548.76	1.48%	[10]	mg/L
Sb 206.836†	18590.7	220.67	1.19%	[10]	mg/L
Si 288.158†	11127.8	37.42	0.34%	[10]	mg/L
Sn 189.927†	34885.3	372.45	1.07%	[10]	mg/L
Ti 334.903†	173400.8	463.79	0.27%	[10]	mg/L

Sequence No.: 5
Sample ID: STD5

Autosampler Location: 5
Date Collected: 8/9/2010 11:42:05 AM
Data Type: Original

Nebulizer Parameters: STD5

Analyte Back Pressure Flow
All 161.0 kPa 0.55 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
ScA 357.253	2143359.3	3234.92	0.15%	99.46 %
ScR 361.383	246353.4	3138.56	1.27%	103.4 %
Al 308.215†	36514.1	761.91	2.09%	[30] mg/L
Ca 317.933†	229257.1	737.51	0.32%	[30] mg/L
Fe 273.955†	102345.5	433.84	0.42%	[100] mg/L
K 766.490†	222812.3	577.81	0.26%	[100] mg/L
Mg 279.077†	28354.0	676.63	2.39%	[30] mg/L
Na 330.237†	2067.6	39.83	1.93%	[100] mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	172000	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1217	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	1484	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	1870	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	7001	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	242000	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	7642	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	50210	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	46740	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	3315	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	187100	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	1023	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	2228	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	945.1	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	34640	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	10480	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	5675	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	20.68	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	1535	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	7143	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	1859	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	990.1	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1113	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	3489	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	429900	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	17340	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	1891	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	102800	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	1968	0.00000	1.000000	

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Analysis Begun

Start Time: 8/9/2010 11:57:29 AM

Plasma On Time: 8/9/2010 10:12:27 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0809.sif

Batch ID:

Results Data Set: PE100809

Results Library: C:\pe\metals\Results\Results.mdb

=====
Sequence No.: 1

Sample ID: CV

Handwritten: 2222
8/9

Autosampler Location: 7

Date Collected: 8/9/2010 11:57:31 AM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte

Back Pressure

Flow

All

162.0 kPa

0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2183414.1	101.3 %	0.33			0.32%
ScR 361.383	252624.2	106.0 %	0.50			0.47%
Ag 328.068†	164641.2	0.9574 mg/L	0.00650	0.9574 mg/L	0.00650	0.68%
Al 308.215†	2485.2	2.003 mg/L	0.0040	2.003 mg/L	0.0040	0.20%
As 188.979†	2981.5	2.009 mg/L	0.0096	2.009 mg/L	0.0096	0.48%
B 249.677†	1792.6	0.9572 mg/L	0.00726	0.9572 mg/L	0.00726	0.76%
Ba 233.527†	6789.7	0.9693 mg/L	0.00393	0.9693 mg/L	0.00393	0.41%
Be 313.042†	236866.6	0.9765 mg/L	0.00113	0.9765 mg/L	0.00113	0.12%
Ca 317.933†	15530.3	2.032 mg/L	0.0083	2.032 mg/L	0.0083	0.41%
Cd 228.802†	50822.7	1.009 mg/L	0.0067	1.009 mg/L	0.0067	0.66%
Co 228.616†	45257.4	0.9664 mg/L	0.00685	0.9664 mg/L	0.00685	0.71%
Cr 267.716†	3234.1	0.9755 mg/L	0.00361	0.9755 mg/L	0.00361	0.37%
Cu 324.752†	196746.1	1.052 mg/L	0.0067	1.052 mg/L	0.0067	0.63%
Fe 273.955†	1998.5	1.952 mg/L	0.0064	1.952 mg/L	0.0064	0.33%
K 766.490†	44374.1	19.92 mg/L	0.064	19.92 mg/L	0.064	0.32%
Mg 279.077†	1862.2	1.974 mg/L	0.0117	1.974 mg/L	0.0117	0.59%
Mn 257.610†	33546.2	0.9689 mg/L	0.00372	0.9689 mg/L	0.00372	0.38%
Mo 202.031†	10401.3	0.9919 mg/L	0.00379	0.9919 mg/L	0.00379	0.38%
Na 589.592†	276127.0	48.66 mg/L	0.114	48.66 mg/L	0.114	0.23%
Na 330.237†	1055.6	50.94 mg/L	0.103	50.94 mg/L	0.103	0.20%
Ni 231.604†	1496.1	0.9752 mg/L	0.00503	0.9752 mg/L	0.00503	0.52%
Pb 220.353†	13931.9	1.952 mg/L	0.0143	1.952 mg/L	0.0143	0.73%
Sb 206.836†	4046.6	2.173 mg/L	0.0074	2.173 mg/L	0.0074	0.34%
Se 196.026†	1985.7	2.004 mg/L	0.0050	2.004 mg/L	0.0050	0.25%
Si 288.158†	2361.3	2.125 mg/L	0.0010	2.125 mg/L	0.0010	0.05%
Sn 189.927†	3218.4	0.9231 mg/L	0.00040	0.9231 mg/L	0.00040	0.04%
Sr 421.552†	426668.5	0.9926 mg/L	0.00436	0.9926 mg/L	0.00436	0.44%
Ti 334.903†	17051.8	0.9821 mg/L	0.00164	0.9821 mg/L	0.00164	0.17%
Tl 190.801†	3751.8	1.970 mg/L	0.0069	1.970 mg/L	0.0069	0.35%
V 292.402†	100103.1	0.9848 mg/L	0.00589	0.9848 mg/L	0.00589	0.60%
Zn 206.200†	1900.4	0.9649 mg/L	0.00269	0.9649 mg/L	0.00269	0.28%

Sequence No.: 2

Sample ID: CB

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8/9/10

Autosampler Location: 1

Date Collected: 8/9/2010 12:03:32 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow
All 162.0 kPa 0.55 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2225485.7	103.3 %	0.54			0.53%
ScR 361.383	251976.5	105.8 %	0.36			0.34%
Ag 328.068†	37.4	0.00022 mg/L	0.000249	0.00022 mg/L	0.000249	114.66%
Al 308.215†	19.9	0.01630 mg/L	0.014730	0.01630 mg/L	0.014730	90.36%
As 188.979†	4.2	0.00285 mg/L	0.000783	0.00285 mg/L	0.000783	27.49%
B 249.677†	19.2	0.01026 mg/L	0.001799	0.01026 mg/L	0.001799	17.53%
Ba 233.527†	-3.7	-0.00053 mg/L	0.000461	-0.00053 mg/L	0.000461	87.50%
Be 313.042†	9.1	0.00004 mg/L	0.000088	0.00004 mg/L	0.000088	236.19%
Ca 317.933†	21.3	0.00279 mg/L	0.002397	0.00279 mg/L	0.002397	86.08%
Cd 228.802†	4.8	0.00009 mg/L	0.000089	0.00009 mg/L	0.000089	95.29%
Co 228.616†	11.8	0.00025 mg/L	0.000119	0.00025 mg/L	0.000119	47.00%
Cr 267.716†	6.3	0.00189 mg/L	0.001133	0.00189 mg/L	0.001133	60.03%
Cu 324.752†	1001.8	0.00536 mg/L	0.000163	0.00536 mg/L	0.000163	3.04%
Fe 273.955†	0.9	0.00091 mg/L	0.003709	0.00091 mg/L	0.003709	405.96%
K 766.490†	-224.8	-0.1009 mg/L	0.00960	-0.1009 mg/L	0.00960	9.52%
Mg 279.077†	-6.9	-0.00726 mg/L	0.006874	-0.00726 mg/L	0.006874	94.69%
Mn 257.610†	0.5	0.00001 mg/L	0.000067	0.00001 mg/L	0.000067	522.04%
Mo 202.031†	6.8	0.00065 mg/L	0.000219	0.00065 mg/L	0.000219	33.78%
Na 589.592†	194.0	0.03419 mg/L	0.013870	0.03419 mg/L	0.013870	40.57%
Na 330.237†	24.8	1.201 mg/L	0.0424	1.201 mg/L	0.0424	3.53%
Ni 231.604†	8.3	0.00538 mg/L	0.001819	0.00538 mg/L	0.001819	33.81%
Pb 220.353†	-2.4	-0.00033 mg/L	0.000677	-0.00033 mg/L	0.000677	203.69%
Sb 206.836†	-2.7	-0.00144 mg/L	0.001537	-0.00144 mg/L	0.001537	106.81%
Se 196.026†	7.1	0.00715 mg/L	0.003669	0.00715 mg/L	0.003669	51.31%
Si 288.158†	-1.4	-0.00123 mg/L	0.002626	-0.00123 mg/L	0.002626	213.09%
Sn 189.927†	8.4	0.00239 mg/L	0.001212	0.00239 mg/L	0.001212	50.61%
Sr 421.552†	-31.9	-0.00007 mg/L	0.000064	-0.00007 mg/L	0.000064	85.98%
Ti 334.903†	-8.8	-0.00051 mg/L	0.001013	-0.00051 mg/L	0.001013	198.24%
Tl 190.801†	3.4	0.00178 mg/L	0.001548	0.00178 mg/L	0.001548	86.86%
V 292.402†	17.8	0.00019 mg/L	0.000212	0.00019 mg/L	0.000212	111.88%
Zn 206.200†	2.1	0.00106 mg/L	0.000680	0.00106 mg/L	0.000680	63.99%

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Analysis Begun

Start Time: 8/9/2010 12:08:44 PM

Plasma On Time: 8/9/2010 10:12:27 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0809.sif

Batch ID:

Results Data Set: PE100809

Results Library: C:\pe\metals\Results\Results.mdb

=====
Sequence No.: 1

Sample ID: Calib Blank 1

Date Collected: 8/9/2010 12:08:46 PM

Data Type: Original

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Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	161.0 kPa	0.55 L/min

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Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
ScA 357.253	2244208.0	17976.52	0.80%	104.1	%
ScR 361.383	250277.0	986.15	0.39%	105.0	%
Ag 328.068†	-169.6	22.57	13.31%	[0.00]	mg/L
Al 308.215†	-216.9	20.79	9.58%	[0.00]	mg/L
As 188.979†	12.5	0.54	4.27%	[0.00]	mg/L
B 249.677†	-8.9	4.12	46.01%	[0.00]	mg/L
Ba 233.527†	26.7	0.93	3.49%	[0.00]	mg/L
Be 313.042†	510.3	18.30	3.59%	[0.00]	mg/L
Ca 317.933†	-100.9	12.82	12.71%	[0.00]	mg/L
Cd 228.802†	229.2	6.94	3.03%	[0.00]	mg/L
Co 228.616†	-145.9	5.76	3.95%	[0.00]	mg/L
Cr 267.716†	-34.2	5.24	15.34%	[0.00]	mg/L
Cu 324.752†	2008.9	25.33	1.26%	[0.00]	mg/L
Fe 273.955†	-17.8	1.56	8.78%	[0.00]	mg/L
K 766.490†	3357.3	45.44	1.35%	[0.00]	mg/L
Mg 279.077†	-49.0	1.46	2.97%	[0.00]	mg/L
Mn 257.610†	68.6	2.05	2.98%	[0.00]	mg/L
Mo 202.031†	29.8	4.86	16.29%	[0.00]	mg/L
Na 589.592†	1618.2	42.59	2.63%	[0.00]	mg/L
Na 330.237†	-228.9	10.96	4.79%	[0.00]	mg/L
Ni 231.604†	-59.5	3.30	5.55%	[0.00]	mg/L
Pb 220.353†	268.4	4.48	1.67%	[0.00]	mg/L
Sb 206.836†	162.8	2.56	1.57%	[0.00]	mg/L
Se 196.026†	-73.4	3.62	4.94%	[0.00]	mg/L
Si 288.158†	1.1	5.15	474.42%	[0.00]	mg/L
Sn 189.927†	0.3	0.99	313.96%	[0.00]	mg/L
Sr 421.552†	463.2	25.32	5.47%	[0.00]	mg/L
Ti 334.903†	193.3	16.79	8.69%	[0.00]	mg/L
Tl 190.801†	-14.3	3.49	24.49%	[0.00]	mg/L
V 292.402†	483.0	27.09	5.61%	[0.00]	mg/L
Zn 206.200†	-12.5	2.36	18.89%	[0.00]	mg/L

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Analysis Begun

Start Time: 8/9/2010 12:13:24 PM

Plasma On Time: 8/9/2010 10:12:27 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0809.sif

Batch ID:

Results Data Set: PE100809

Results Library: C:\pe\metals\Results\Results.mdb

=====
Sequence No.: 1

Autosampler Location: 7

Sample ID: CV

Date Collected: 8/9/2010 12:13:26 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	162.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2200966.0	102.1	%	0.31				0.30%
ScR 361.383	258227.6	108.4	%	0.33				0.31%
Ag 328.068†	164290.5	0.9554	mg/L	0.01092	0.9554	mg/L	0.01092	1.14%
Al 308.215†	2446.5	1.972	mg/L	0.0075	1.972	mg/L	0.0075	0.38%
As 188.979†	2976.3	2.006	mg/L	0.0095	2.006	mg/L	0.0095	0.47%
B 249.677†	1777.9	0.9493	mg/L	0.00668	0.9493	mg/L	0.00668	0.70%
Ba 233.527†	6771.4	0.9667	mg/L	0.00330	0.9667	mg/L	0.00330	0.34%
Be 313.042†	236353.4	0.9743	mg/L	0.00652	0.9743	mg/L	0.00652	0.67%
Ca 317.933†	15530.3	2.032	mg/L	0.0041	2.032	mg/L	0.0041	0.20%
Cd 228.802†	50982.8	1.012	mg/L	0.0133	1.012	mg/L	0.0133	1.32%
Co 228.616†	45587.7	0.9735	mg/L	0.01142	0.9735	mg/L	0.01142	1.17%
Cr 267.716†	3224.2	0.9725	mg/L	0.00241	0.9725	mg/L	0.00241	0.25%
Cu 324.752†	196117.9	1.048	mg/L	0.0123	1.048	mg/L	0.0123	1.17%
Fe 273.955†	2006.1	1.959	mg/L	0.0038	1.959	mg/L	0.0038	0.20%
K 766.490†	43541.2	19.54	mg/L	0.076	19.54	mg/L	0.076	0.39%
Mg 279.077†	1861.1	1.972	mg/L	0.0097	1.972	mg/L	0.0097	0.49%
Mn 257.610†	33422.9	0.9653	mg/L	0.00289	0.9653	mg/L	0.00289	0.30%
Mo 202.031†	10372.1	0.9891	mg/L	0.00603	0.9891	mg/L	0.00603	0.61%
Na 589.592†	270971.0	47.75	mg/L	0.294	47.75	mg/L	0.294	0.62%
Na 330.237†	1021.6	49.29	mg/L	0.224	49.29	mg/L	0.224	0.45%
Ni 231.604†	1488.4	0.9702	mg/L	0.00227	0.9702	mg/L	0.00227	0.23%
Pb 220.353†	14064.3	1.970	mg/L	0.0276	1.970	mg/L	0.0276	1.40%
Sb 206.836†	4034.4	2.167	mg/L	0.0155	2.167	mg/L	0.0155	0.72%
Se 196.026†	1972.4	1.990	mg/L	0.0141	1.990	mg/L	0.0141	0.71%
Si 288.158†	2348.2	2.113	mg/L	0.0072	2.113	mg/L	0.0072	0.34%
Sn 189.927†	3211.9	0.9212	mg/L	0.00993	0.9212	mg/L	0.00993	1.08%
Sr 421.552†	421576.3	0.9807	mg/L	0.00414	0.9807	mg/L	0.00414	0.42%
Ti 334.903†	16870.4	0.9717	mg/L	0.00616	0.9717	mg/L	0.00616	0.63%
Tl 190.801†	3745.6	1.967	mg/L	0.0152	1.967	mg/L	0.0152	0.77%
V 292.402†	100744.5	0.9910	mg/L	0.00784	0.9910	mg/L	0.00784	0.79%
Zn 206.200†	1911.3	0.9704	mg/L	0.00211	0.9704	mg/L	0.00211	0.22%

Sequence No.: 2
 Sample ID: \CB

Autosampler Location: 1
 Date Collected: 8/9/2010 12:19:28 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 162.0 kPa 0.55 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2235083.5	103.7 %	0.53			0.52%
ScR 361.383	255285.0	107.1 %	0.07			0.07%
Ag 328.068†	36.0	0.00021 mg/L	0.000138	0.00021 mg/L	0.000138	65.82%
Al 308.215†	-0.0	-0.00004 mg/L	0.014730	-0.00004 mg/L	0.014730	>999.9%
As 188.979†	3.5	0.00235 mg/L	0.002352	0.00235 mg/L	0.002352	100.24%
B 249.677†	5.6	0.00301 mg/L	0.002482	0.00301 mg/L	0.002482	82.45%
Ba 233.527†	0.6	0.00009 mg/L	0.000813	0.00009 mg/L	0.000813	883.66%
Be 313.042†	-5.3	-0.00002 mg/L	0.000034	-0.00002 mg/L	0.000034	153.35%
Ca 317.933†	11.7	0.00152 mg/L	0.001359	0.00152 mg/L	0.001359	89.11%
Cd 228.802†	4.1	0.00008 mg/L	0.000043	0.00008 mg/L	0.000043	54.50%
Co 228.616†	-5.4	-0.00012 mg/L	0.000175	-0.00012 mg/L	0.000175	147.94%
Cr 267.716†	-1.8	-0.00056 mg/L	0.000907	-0.00056 mg/L	0.000907	162.77%
Cu 324.752†	-32.0	-0.00017 mg/L	0.000365	-0.00017 mg/L	0.000365	212.94%
Fe 273.955†	0.8	0.00075 mg/L	0.001697	0.00075 mg/L	0.001697	226.28%
K 766.490†	-1.2	-0.00056 mg/L	0.009631	-0.00056 mg/L	0.009631	>999.9%
Mg 279.077†	-0.6	-0.00067 mg/L	0.010987	-0.00067 mg/L	0.010987	>999.9%
Mn 257.610†	4.4	0.00013 mg/L	0.000122	0.00013 mg/L	0.000122	96.75%
Mo 202.031†	2.8	0.00026 mg/L	0.000366	0.00026 mg/L	0.000366	138.96%
Na 589.592†	165.6	0.02918 mg/L	0.004963	0.02918 mg/L	0.004963	17.01%
Na 330.237†	9.2	0.4461 mg/L	0.54428	0.4461 mg/L	0.54428	122.01%
Ni 231.604†	-0.6	-0.00037 mg/L	0.002653	-0.00037 mg/L	0.002653	712.62%
Pb 220.353†	3.7	0.00052 mg/L	0.000869	0.00052 mg/L	0.000869	166.60%
Sb 206.836†	-1.1	-0.00056 mg/L	0.002083	-0.00056 mg/L	0.002083	370.96%
Se 196.026†	2.8	0.00279 mg/L	0.004623	0.00279 mg/L	0.004623	165.51%
Si 288.158†	-1.0	-0.00093 mg/L	0.004460	-0.00093 mg/L	0.004460	479.48%
Sn 189.927†	-1.0	-0.00028 mg/L	0.000330	-0.00028 mg/L	0.000330	119.47%
Sr 421.552†	16.4	0.00004 mg/L	0.000026	0.00004 mg/L	0.000026	69.50%
Ti 334.903†	19.0	0.00110 mg/L	0.001025	0.00110 mg/L	0.001025	93.49%
Tl 190.801†	-2.0	-0.00104 mg/L	0.000875	-0.00104 mg/L	0.000875	84.31%
V 292.402†	5.6	0.00005 mg/L	0.000147	0.00005 mg/L	0.000147	286.69%
Zn 206.200†	-1.4	-0.00069 mg/L	0.000276	-0.00069 mg/L	0.000276	40.14%

Sequence No.: 3

Sample ID: CRI

Autosampler Location: 21

Date Collected: 8/9/2010 12:25:27 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	162.0 kPa	0.55 L/min

Mean Data: CRI

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2233075.6	103.6 %	0.43			0.41%
ScR 361.383	251728.1	105.7 %	1.51			1.43%
Ag 328.068†	556.1	0.00324 mg/L	0.000251	0.00324 mg/L	0.000251	7.75%
Al 308.215†	50.8	0.04159 mg/L	0.007866	0.04159 mg/L	0.007866	18.91%
As 188.979†	78.6	0.05299 mg/L	0.001074	0.05299 mg/L	0.001074	2.03%
B 249.677†	34.9	0.01866 mg/L	0.001729	0.01866 mg/L	0.001729	9.26%
Ba 233.527†	21.6	0.00309 mg/L	0.000950	0.00309 mg/L	0.000950	30.80%
Be 313.042†	251.6	0.00103 mg/L	0.000043	0.00103 mg/L	0.000043	4.20%
Ca 317.933†	417.5	0.05463 mg/L	0.003842	0.05463 mg/L	0.003842	7.03%
Cd 228.802†	100.1	0.00190 mg/L	0.000019	0.00190 mg/L	0.000019	0.99%
Co 228.616†	137.9	0.00294 mg/L	0.000185	0.00294 mg/L	0.000185	6.30%
Cr 267.716†	14.4	0.00434 mg/L	0.000659	0.00434 mg/L	0.000659	15.18%
Cu 324.752†	165.1	0.00089 mg/L	0.000339	0.00089 mg/L	0.000339	38.32%
Fe 273.955†	51.9	0.05070 mg/L	0.003256	0.05070 mg/L	0.003256	6.42%
K 766.490†	1189.8	0.5340 mg/L	0.02959	0.5340 mg/L	0.02959	5.54%
Mg 279.077†	46.4	0.04913 mg/L	0.002949	0.04913 mg/L	0.002949	6.00%
Mn 257.610†	37.7	0.00109 mg/L	0.000160	0.00109 mg/L	0.000160	14.68%
Mo 202.031†	52.9	0.00505 mg/L	0.000541	0.00505 mg/L	0.000541	10.72%
Na 589.592†	2882.3	0.5079 mg/L	0.00711	0.5079 mg/L	0.00711	1.40%
Na 330.237†	15.4	0.7423 mg/L	0.15884	0.7423 mg/L	0.15884	21.40%
Ni 231.604†	15.8	0.01029 mg/L	0.002655	0.01029 mg/L	0.002655	25.81%
Pb 220.353†	137.1	0.01921 mg/L	0.000387	0.01921 mg/L	0.000387	2.02%
Sb 206.836†	98.4	0.05295 mg/L	0.001655	0.05295 mg/L	0.001655	3.12%
Se 196.026†	51.7	0.05225 mg/L	0.002668	0.05225 mg/L	0.002668	5.11%
Si 288.158†	79.4	0.07133 mg/L	0.004531	0.07133 mg/L	0.004531	6.35%
Sn 189.927†	31.6	0.00907 mg/L	0.000474	0.00907 mg/L	0.000474	5.23%
Sr 421.552†	453.2	0.00105 mg/L	0.000042	0.00105 mg/L	0.000042	4.01%
Ti 334.903†	110.4	0.00636 mg/L	0.001158	0.00636 mg/L	0.001158	18.20%
Tl 190.801†	98.7	0.05215 mg/L	0.000963	0.05215 mg/L	0.000963	1.85%
V 292.402†	332.6	0.00328 mg/L	0.000291	0.00328 mg/L	0.000291	8.88%
Zn 206.200†	19.0	0.00967 mg/L	0.000468	0.00967 mg/L	0.000468	4.84%

Sequence No.: 4
Sample ID: ICSA

Autosampler Location: 22
Date Collected: 8/9/2010 12:31:27 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: ICSA

Analyte Back Pressure Flow
All 162.0 kPa 0.55 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2137656.7	99.19	%	0.265			0.27%
ScR 361.383	254601.7	106.9	%	1.04			0.97%
Ag 328.068†	-1140.7	0.00015	mg/L	0.000319	0.00015 mg/L	0.000319	206.86%
Al 308.215†	242840.1	199.5	mg/L	0.62	199.5 mg/L	0.62	0.31%
As 188.979†	1.2	0.00078	mg/L	0.003596	0.00078 mg/L	0.003596	463.35%
B 249.677†	24.7	0.01320	mg/L	0.001220	0.01320 mg/L	0.001220	9.24%
Ba 233.527†	72.8	0.00123	mg/L	0.000406	0.00123 mg/L	0.000406	33.15%
Be 313.042†	-17.3	-0.00013	mg/L	0.000056	-0.00013 mg/L	0.000056	41.98%
Ca 317.933†	757037.7	99.06	mg/L	0.046	99.06 mg/L	0.046	0.05%
Cd 228.802†	39.9	0.00079	mg/L	0.000048	0.00079 mg/L	0.000048	6.02%
Co 228.616†	35.4	0.00075	mg/L	0.000126	0.00075 mg/L	0.000126	16.89%
Cr 267.716†	4.3	0.00068	mg/L	0.000445	0.00068 mg/L	0.000445	65.72%
Cu 324.752†	-3234.6	0.00004	mg/L	0.000063	0.00004 mg/L	0.000063	169.79%
Fe 273.955†	199205.0	194.6	mg/L	0.92	194.6 mg/L	0.92	0.47%
K 766.490†	-178.4	-0.08008	mg/L	0.028627	-0.08008 mg/L	0.028627	35.75%
Mg 279.077†	96386.0	101.9	mg/L	0.08	101.9 mg/L	0.08	0.08%
Mn 257.610†	37.7	-0.00026	mg/L	0.000301	-0.00026 mg/L	0.000301	117.68%
Mo 202.031†	18.6	0.00177	mg/L	0.000657	0.00177 mg/L	0.000657	37.06%
Na 589.592†	90.5	0.01595	mg/L	0.005873	0.01595 mg/L	0.005873	36.83%
Na 330.237†	10.5	-0.1443	mg/L	0.21293	-0.1443 mg/L	0.21293	147.60%
Ni 231.604†	-6.8	-0.00435	mg/L	0.001691	-0.00435 mg/L	0.001691	38.88%
Pb 220.353†	-277.6	0.00455	mg/L	0.000801	0.00455 mg/L	0.000801	17.59%
Sb 206.836†	144.8	0.00023	mg/L	0.001439	0.00023 mg/L	0.001439	622.34%
Se 196.026†	-88.4	-0.01594	mg/L	0.003761	-0.01594 mg/L	0.003761	23.60%
Si 288.158†	-16.5	-0.00119	mg/L	0.006245	-0.00119 mg/L	0.006245	523.80%
Sn 189.927†	-52.4	-0.00684	mg/L	0.001592	-0.00684 mg/L	0.001592	23.30%
Sr 421.552†	1774.3	0.00413	mg/L	0.000055	0.00413 mg/L	0.000055	1.33%
Ti 334.903†	90.9	0.00138	mg/L	0.001060	0.00138 mg/L	0.001060	77.09%
Tl 190.801†	-44.9	-0.02388	mg/L	0.002348	-0.02388 mg/L	0.002348	9.83%
V 292.402†	2474.4	0.00120	mg/L	0.000674	0.00120 mg/L	0.000674	56.05%
Zn 206.200†	-11.5	-0.00085	mg/L	0.000567	-0.00085 mg/L	0.000567	66.87%

Sequence No.: 5
Sample ID: ICSAB

Autosampler Location: 23
Date Collected: 8/9/2010 12:37:28 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: ICSAB

Analyte Back Pressure Flow
All 162.0 kPa 0.55 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2149393.9	99.74	%	0.804			0.81%
ScR 361.383	253925.6	106.6	%	1.63			1.53%
Ag 328.068†	172798.4	1.012	mg/L	0.0038	1.012 mg/L	0.0038	0.37%
Al 308.215†	243644.2	200.2	mg/L	1.20	200.2 mg/L	1.20	0.60%
As 188.979†	1484.1	1.000	mg/L	0.0102	1.000 mg/L	0.0102	1.02%
B 249.677†	23.1	0.00935	mg/L	0.002461	0.00935 mg/L	0.002461	26.33%
Ba 233.527†	6843.8	0.9679	mg/L	0.01752	0.9679 mg/L	0.01752	1.81%
Be 313.042†	243063.4	1.002	mg/L	0.0018	1.002 mg/L	0.0018	0.18%
Ca 317.933†	755094.9	98.81	mg/L	0.044	98.81 mg/L	0.044	0.04%
Cd 228.802†	50197.2	0.9982	mg/L	0.00366	0.9982 mg/L	0.00366	0.37%
Co 228.616†	43176.3	0.9233	mg/L	0.00323	0.9233 mg/L	0.00323	0.35%
Cr 267.716†	3232.7	0.9747	mg/L	0.01722	0.9747 mg/L	0.01722	1.77%
Cu 324.752†	195941.9	1.065	mg/L	0.0023	1.065 mg/L	0.0023	0.22%
Fe 273.955†	199566.4	195.0	mg/L	1.33	195.0 mg/L	1.33	0.68%
K 766.490†	-172.6	-0.07748	mg/L	0.032020	-0.07748 mg/L	0.032020	41.33%
Mg 279.077†	96076.4	101.5	mg/L	0.29	101.5 mg/L	0.29	0.29%
Mn 257.610†	33471.0	0.9651	mg/L	0.01786	0.9651 mg/L	0.01786	1.85%
Mo 202.031†	17.5	0.00152	mg/L	0.000429	0.00152 mg/L	0.000429	28.12%
Na 589.592†	153.1	0.02698	mg/L	0.010854	0.02698 mg/L	0.010854	40.23%
Na 330.237†	27.9	0.4082	mg/L	0.07640	0.4082 mg/L	0.07640	18.72%
Ni 231.604†	1455.1	0.9483	mg/L	0.01724	0.9483 mg/L	0.01724	1.82%
Pb 220.353†	6378.0	0.9375	mg/L	0.01232	0.9375 mg/L	0.01232	1.31%
Sb 206.836†	2167.5	1.076	mg/L	0.0103	1.076 mg/L	0.0103	0.96%
Se 196.026†	909.4	0.9893	mg/L	0.00931	0.9893 mg/L	0.00931	0.94%
Si 288.158†	-28.9	-0.01146	mg/L	0.004183	-0.01146 mg/L	0.004183	36.49%
Sn 189.927†	-55.4	-0.00771	mg/L	0.002351	-0.00771 mg/L	0.002351	30.48%
Sr 421.552†	1809.9	0.00421	mg/L	0.000122	0.00421 mg/L	0.000122	2.90%
Ti 334.903†	88.0	0.00099	mg/L	0.000617	0.00099 mg/L	0.000617	62.50%
Tl 190.801†	1770.8	0.9229	mg/L	0.01103	0.9229 mg/L	0.01103	1.19%
V 292.402†	104621.1	1.001	mg/L	0.0034	1.001 mg/L	0.0034	0.34%
Zn 206.200†	1798.1	0.9180	mg/L	0.01958	0.9180 mg/L	0.01958	2.13%

Sequence No.: 6

Sample ID: CV

Autosampler Location: 7

Date Collected: 8/9/2010 12:44:26 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	162.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2229779.5	103.5	%	0.60			0.58%
ScR 361.383	255356.5	107.2	%	0.60			0.56%
Ag 328.068†	163554.6	0.9511	mg/L	0.00658	0.9511 mg/L	0.00658	0.69%
Al 308.215†	2460.8	1.984	mg/L	0.0149	1.984 mg/L	0.0149	0.75%
As 188.979†	2937.1	1.979	mg/L	0.0071	1.979 mg/L	0.0071	0.36%
B 249.677†	1760.2	0.9398	mg/L	0.00643	0.9398 mg/L	0.00643	0.68%
Ba 233.527†	6703.3	0.9570	mg/L	0.00901	0.9570 mg/L	0.00901	0.94%
Be 313.042†	231369.0	0.9537	mg/L	0.00254	0.9537 mg/L	0.00254	0.27%
Ca 317.933†	15344.8	2.008	mg/L	0.0177	2.008 mg/L	0.0177	0.88%
Cd 228.802†	50680.7	1.006	mg/L	0.0094	1.006 mg/L	0.0094	0.94%
Co 228.616†	45425.3	0.9700	mg/L	0.00960	0.9700 mg/L	0.00960	0.99%
Cr 267.716†	3197.0	0.9643	mg/L	0.00772	0.9643 mg/L	0.00772	0.80%
Cu 324.752†	195098.8	1.043	mg/L	0.0068	1.043 mg/L	0.0068	0.65%
Fe 273.955†	1988.3	1.942	mg/L	0.0188	1.942 mg/L	0.0188	0.97%
K 766.490†	43995.7	19.75	mg/L	0.026	19.75 mg/L	0.026	0.13%
Mg 279.077†	1846.6	1.957	mg/L	0.0135	1.957 mg/L	0.0135	0.69%
Mn 257.610†	33042.2	0.9543	mg/L	0.00848	0.9543 mg/L	0.00848	0.89%
Mo 202.031†	10195.5	0.9723	mg/L	0.00526	0.9723 mg/L	0.00526	0.54%
Na 589.592†	269802.7	47.54	mg/L	0.078	47.54 mg/L	0.078	0.16%
Na 330.237†	1016.4	49.05	mg/L	0.207	49.05 mg/L	0.207	0.42%
Ni 231.604†	1477.0	0.9627	mg/L	0.00973	0.9627 mg/L	0.00973	1.01%
Pb 220.353†	13993.6	1.961	mg/L	0.0235	1.961 mg/L	0.0235	1.20%
Sb 206.836†	3978.5	2.137	mg/L	0.0095	2.137 mg/L	0.0095	0.44%
Se 196.026†	1946.1	1.964	mg/L	0.0029	1.964 mg/L	0.0029	0.15%
Si 288.158†	2346.2	2.111	mg/L	0.0177	2.111 mg/L	0.0177	0.84%
Sn 189.927†	3169.0	0.9089	mg/L	0.00540	0.9089 mg/L	0.00540	0.59%
Sr 421.552†	422557.6	0.9830	mg/L	0.00192	0.9830 mg/L	0.00192	0.20%
Ti 334.903†	16747.3	0.9646	mg/L	0.00303	0.9646 mg/L	0.00303	0.31%
Tl 190.801†	3693.5	1.939	mg/L	0.0106	1.939 mg/L	0.0106	0.55%
V 292.402†	100253.2	0.9861	mg/L	0.01307	0.9861 mg/L	0.01307	1.33%
Zn 206.200†	1882.7	0.9559	mg/L	0.01067	0.9559 mg/L	0.01067	1.12%

Sequence No.: 7
Sample ID: CB

Autosampler Location: 1
Date Collected: 8/9/2010 12:50:27 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	163.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2233047.5	103.6	%	0.38			0.37%
ScR 361.383	253667.2	106.5	%	1.35			1.27%
Ag 328.068†	21.2	0.00012	mg/L	0.000020	0.00012 mg/L	0.000020	16.05%
Al 308.215†	14.5	0.01190	mg/L	0.007784	0.01190 mg/L	0.007784	65.39%
As 188.979†	3.7	0.00252	mg/L	0.000676	0.00252 mg/L	0.000676	26.82%
B 249.677†	3.4	0.00181	mg/L	0.001223	0.00181 mg/L	0.001223	67.61%
Ba 233.527†	-6.1	-0.00087	mg/L	0.000502	-0.00087 mg/L	0.000502	57.45%
Be 313.042†	-6.0	-0.00003	mg/L	0.000112	-0.00003 mg/L	0.000112	444.09%
Ca 317.933†	25.8	0.00338	mg/L	0.001909	0.00338 mg/L	0.001909	56.55%
Cd 228.802†	13.4	0.00026	mg/L	0.000112	0.00026 mg/L	0.000112	42.72%
Co 228.616†	1.1	0.00002	mg/L	0.000076	0.00002 mg/L	0.000076	343.05%
Cr 267.716†	-1.7	-0.00050	mg/L	0.000647	-0.00050 mg/L	0.000647	128.66%
Cu 324.752†	-43.3	-0.00023	mg/L	0.000170	-0.00023 mg/L	0.000170	73.46%
Fe 273.955†	5.0	0.00484	mg/L	0.001394	0.00484 mg/L	0.001394	28.79%
K 766.490†	13.0	0.00584	mg/L	0.035830	0.00584 mg/L	0.035830	613.31%
Mg 279.077†	-0.2	-0.00025	mg/L	0.006468	-0.00025 mg/L	0.006468	>999.9%
Mn 257.610†	3.7	0.00011	mg/L	0.000155	0.00011 mg/L	0.000155	145.99%
Mo 202.031†	1.0	0.00010	mg/L	0.000203	0.00010 mg/L	0.000203	211.58%
Na 589.592†	160.0	0.02819	mg/L	0.011058	0.02819 mg/L	0.011058	39.23%
Na 330.237†	1.6	0.07594	mg/L	0.995938	0.07594 mg/L	0.995938	>999.9%
Ni 231.604†	-1.9	-0.00125	mg/L	0.003844	-0.00125 mg/L	0.003844	307.46%
Pb 220.353†	3.1	0.00043	mg/L	0.000943	0.00043 mg/L	0.000943	216.82%
Sb 206.836†	-2.4	-0.00128	mg/L	0.001396	-0.00128 mg/L	0.001396	108.69%
Se 196.026†	7.5	0.00758	mg/L	0.001305	0.00758 mg/L	0.001305	17.21%
Si 288.158†	2.9	0.00262	mg/L	0.007854	0.00262 mg/L	0.007854	300.05%
Sn 189.927†	-0.2	-0.00007	mg/L	0.000606	-0.00007 mg/L	0.000606	851.85%
Sr 421.552†	-25.9	-0.00006	mg/L	0.000051	-0.00006 mg/L	0.000051	84.85%
Ti 334.903†	13.8	0.00079	mg/L	0.001062	0.00079 mg/L	0.001062	133.85%
Tl 190.801†	2.2	0.00115	mg/L	0.001384	0.00115 mg/L	0.001384	120.82%
V 292.402†	19.8	0.00019	mg/L	0.000290	0.00019 mg/L	0.000290	153.97%
Zn 206.200†	2.4	0.00121	mg/L	0.000168	0.00121 mg/L	0.000168	13.86%

Sequence No.: 8
Sample ID: DI CHECK

Autosampler Location: 24
Date Collected: 8/9/2010 12:56:25 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: DI CHECK

Analyte	Back Pressure	Flow
All	163.0 kPa	0.55 L/min

Mean Data: DI CHECK

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2323350.2	107.8	%	0.49			0.45%
ScR 361.383	264451.0	111.0	%	0.94			0.85%
Ag 328.068†	-6.1	-0.00004	mg/L	0.000068	-0.00004 mg/L	0.000068	190.75%
Al 308.215†	9.4	0.00776	mg/L	0.009685	0.00776 mg/L	0.009685	124.88%
As 188.979†	3.1	0.00208	mg/L	0.000610	0.00208 mg/L	0.000610	29.29%
B 249.677†	-3.3	-0.00177	mg/L	0.001785	-0.00177 mg/L	0.001785	100.80%
Ba 233.527†	-2.9	-0.00041	mg/L	0.000127	-0.00041 mg/L	0.000127	30.68%
Be 313.042†	-15.0	-0.00006	mg/L	0.000046	-0.00006 mg/L	0.000046	75.15%
Ca 317.933†	1.2	0.00016	mg/L	0.003420	0.00016 mg/L	0.003420	>999.9%
Cd 228.802†	-4.9	-0.00010	mg/L	0.000100	-0.00010 mg/L	0.000100	98.82%
Co 228.616†	1.2	0.00002	mg/L	0.000229	0.00002 mg/L	0.000229	942.42%
Cr 267.716†	2.2	0.00066	mg/L	0.000524	0.00066 mg/L	0.000524	79.11%
Cu 324.752†	-803.4	-0.00429	mg/L	0.000176	-0.00429 mg/L	0.000176	4.11%
Fe 273.955†	-5.8	-0.00564	mg/L	0.002640	-0.00564 mg/L	0.002640	46.77%
K 766.490†	-188.4	-0.08457	mg/L	0.018485	-0.08457 mg/L	0.018485	21.86%
Mg 279.077†	0.6	0.00059	mg/L	0.004336	0.00059 mg/L	0.004336	736.60%
Mn 257.610†	-14.2	-0.00041	mg/L	0.000231	-0.00041 mg/L	0.000231	56.48%
Mo 202.031†	-8.3	-0.00080	mg/L	0.000180	-0.00080 mg/L	0.000180	22.66%
Na 589.592†	-160.6	-0.02830	mg/L	0.008723	-0.02830 mg/L	0.008723	30.82%
Na 330.237†	5.6	0.2730	mg/L	0.20224	0.2730 mg/L	0.20224	74.08%
Ni 231.604†	0.5	0.00030	mg/L	0.002604	0.00030 mg/L	0.002604	866.41%
Pb 220.353†	-12.0	-0.00167	mg/L	0.001068	-0.00167 mg/L	0.001068	63.90%
Sb 206.836†	-12.7	-0.00685	mg/L	0.003113	-0.00685 mg/L	0.003113	45.42%
Se 196.026†	7.0	0.00708	mg/L	0.002488	0.00708 mg/L	0.002488	35.12%
Si 288.158†	1.9	0.00167	mg/L	0.009381	0.00167 mg/L	0.009381	561.58%
Sn 189.927†	-3.8	-0.00110	mg/L	0.000646	-0.00110 mg/L	0.000646	59.03%
Sr 421.552†	-9.9	-0.00002	mg/L	0.000037	-0.00002 mg/L	0.000037	162.96%
Ti 334.903†	8.6	0.00050	mg/L	0.000880	0.00050 mg/L	0.000880	177.07%
Tl 190.801†	2.5	0.00132	mg/L	0.002278	0.00132 mg/L	0.002278	172.98%
V 292.402†	-15.0	-0.00015	mg/L	0.000169	-0.00015 mg/L	0.000169	115.06%
Zn 206.200†	0.1	0.00006	mg/L	0.000561	0.00006 mg/L	0.000561	906.80%

Sequence No.: 9
 Sample ID: RH30 MB SWC

Autosampler Location: 25
 Date Collected: 8/9/2010 1:02:25 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RH30 MB SWC

Analyte Back Pressure Flow
 All 163.0 kPa 0.55 L/min

Mean Data: RH30 MB SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2308192.3	107.1 %	%	0.65			0.61%
ScR 361.383	261355.6	109.7 %	%	0.82			0.75%
Ag 328.068†	27.0	0.00016 mg/L	mg/L	0.000180	0.00031 mg/L	0.000360	114.29%
Al 308.215†	14.6	0.01203 mg/L	mg/L	0.005214	0.02407 mg/L	0.010427	43.33%
As 188.979†	1.5	0.00103 mg/L	mg/L	0.001524	0.00207 mg/L	0.003049	147.56%
B 249.677†	-2.1	-0.00113 mg/L	mg/L	0.002324	-0.00227 mg/L	0.004649	204.92%
Ba 233.527†	-0.9	-0.00013 mg/L	mg/L	0.000334	-0.00026 mg/L	0.000669	262.17%
Be 313.042†	-2.8	-0.00001 mg/L	mg/L	0.000025	-0.00002 mg/L	0.000050	211.22%
Ca 317.933†	97.0	0.01270 mg/L	mg/L	0.001563	0.02539 mg/L	0.003126	12.31%
Cd 228.802†	6.6	0.00013 mg/L	mg/L	0.000101	0.00026 mg/L	0.000203	77.67%
Co 228.616†	-5.3	-0.00012 mg/L	mg/L	0.000079	-0.00023 mg/L	0.000157	67.55%
Cr 267.716†	2.4	0.00073 mg/L	mg/L	0.000890	0.00147 mg/L	0.001780	121.36%
Cu 324.752†	-297.1	-0.00159 mg/L	mg/L	0.000210	-0.00318 mg/L	0.000420	13.23%
Fe 273.955†	6.4	0.00629 mg/L	mg/L	0.002072	0.01258 mg/L	0.004144	32.94%
K 766.490†	-91.7	-0.04117 mg/L	mg/L	0.031990	-0.08235 mg/L	0.063980	77.70%
Mg 279.077†	-1.9	-0.00197 mg/L	mg/L	0.002641	-0.00395 mg/L	0.005282	133.77%
Mn 257.610†	2.2	0.00006 mg/L	mg/L	0.000094	0.00012 mg/L	0.000187	150.14%
Mo 202.031†	-1.4	-0.00013 mg/L	mg/L	0.000195	-0.00026 mg/L	0.000389	150.17%
Na 589.592†	-27.6	-0.00487 mg/L	mg/L	0.001334	-0.00973 mg/L	0.002669	27.42%
Na 330.237†	1.9	0.09225 mg/L	mg/L	0.511449	0.1845 mg/L	1.02290	554.41%
Ni 231.604†	2.7	0.00175 mg/L	mg/L	0.000847	0.00349 mg/L	0.001695	48.53%
Pb 220.353†	2.1	0.00030 mg/L	mg/L	0.000912	0.00061 mg/L	0.001824	299.30%
Sb 206.836†	-9.8	-0.00530 mg/L	mg/L	0.000484	-0.01059 mg/L	0.000968	9.13%
Se 196.026†	5.7	0.00576 mg/L	mg/L	0.006849	0.01153 mg/L	0.013698	118.84%
Si 288.158†	9.5	0.00855 mg/L	mg/L	0.002550	0.01710 mg/L	0.005100	29.83%
Sn 189.927†	-1.9	-0.00055 mg/L	mg/L	0.000884	-0.00110 mg/L	0.001767	161.07%
Sr 421.552†	-31.8	-0.00007 mg/L	mg/L	0.000034	-0.00015 mg/L	0.000068	46.32%
Ti 334.903†	17.3	0.00100 mg/L	mg/L	0.000730	0.00200 mg/L	0.001461	73.12%
Tl 190.801†	1.7	0.00091 mg/L	mg/L	0.002208	0.00183 mg/L	0.004416	241.75%
V 292.402†	17.4	0.00017 mg/L	mg/L	0.000084	0.00034 mg/L	0.000167	48.75%
Zn 206.200†	3.8	0.00192 mg/L	mg/L	0.000552	0.00384 mg/L	0.001104	28.73%

Sequence No.: 10
 Sample ID: QC21

Autosampler Location: 26
 Date Collected: 8/9/2010 1:08:25 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: QC21

Analyte Back Pressure Flow
 All 163.0 kPa 0.55 L/min

Mean Data: QC21

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2277718.3	105.7	%	0.06				0.06%
ScR 361.383	258894.2	108.7	%	0.39				0.36%
Ag 328.068†	19.2	0.00000	mg/L	0.000236	0.00000	mg/L	0.000236	>999.9%
Al 308.215†	111.4	0.01383	mg/L	0.005550	0.01383	mg/L	0.005550	40.12%
As 188.979†	2929.5	1.974	mg/L	0.0136	1.974	mg/L	0.0136	0.69%
B 249.677†	6.1	0.00020	mg/L	0.002807	0.00020	mg/L	0.002807	>999.9%
Ba 233.527†	3.4	-0.00038	mg/L	0.000039	-0.00038	mg/L	0.000039	10.17%
Be 313.042†	479890.6	1.978	mg/L	0.0088	1.978	mg/L	0.0088	0.45%
Ca 317.933†	15852.2	2.074	mg/L	0.0141	2.074	mg/L	0.0141	0.68%
Cd 228.802†	99337.3	1.975	mg/L	0.0202	1.975	mg/L	0.0202	1.02%
Co 228.616†	92958.8	1.986	mg/L	0.0188	1.986	mg/L	0.0188	0.95%
Cr 267.716†	6581.0	1.985	mg/L	0.0037	1.985	mg/L	0.0037	0.19%
Cu 324.752†	371103.6	1.983	mg/L	0.0018	1.983	mg/L	0.0018	0.09%
Fe 273.955†	1998.4	1.951	mg/L	0.0064	1.951	mg/L	0.0064	0.33%
K 766.490†	-138.7	-0.06225	mg/L	0.033449	-0.06225	mg/L	0.033449	53.73%
Mg 279.077†	1912.5	2.031	mg/L	0.0107	2.031	mg/L	0.0107	0.53%
Mn 257.610†	69776.9	2.015	mg/L	0.0125	2.015	mg/L	0.0125	0.62%
Mo 202.031†	21039.1	2.006	mg/L	0.0276	2.006	mg/L	0.0276	1.38%
Na 589.592†	-7.6	-0.00134	mg/L	0.004407	-0.00134	mg/L	0.004407	329.98%
Na 330.237†	8.7	0.2282	mg/L	0.14479	0.2282	mg/L	0.14479	63.44%
Ni 231.604†	3080.0	2.007	mg/L	0.0024	2.007	mg/L	0.0024	0.12%
Pb 220.353†	14217.4	1.992	mg/L	0.0227	1.992	mg/L	0.0227	1.14%
Sb 206.836†	4068.1	2.163	mg/L	0.0169	2.163	mg/L	0.0169	0.78%
Se 196.026†	1966.3	1.981	mg/L	0.0168	1.981	mg/L	0.0168	0.85%
Si 288.158†	88.5	0.08513	mg/L	0.003573	0.08513	mg/L	0.003573	4.20%
Sn 189.927†	-14.1	-0.00310	mg/L	0.000913	-0.00310	mg/L	0.000913	29.50%
Sr 421.552†	874415.6	2.034	mg/L	0.0129	2.034	mg/L	0.0129	0.64%
Ti 334.903†	34599.4	1.993	mg/L	0.0129	1.993	mg/L	0.0129	0.65%
Tl 190.801†	4052.6	2.115	mg/L	0.0117	2.115	mg/L	0.0117	0.56%
V 292.402†	200472.4	1.973	mg/L	0.0252	1.973	mg/L	0.0252	1.28%
Zn 206.200†	3719.3	1.888	mg/L	0.0079	1.888	mg/L	0.0079	0.42%

Sequence No.: 11
 Sample ID: QC7M

Autosampler Location: 27
 Date Collected: 8/9/2010 1:14:45 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: QC7M

Analyte Back Pressure Flow
 All 163.0 kPa 0.55 L/min

Mean Data: QC7M

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2194028.8	101.8	%	1.04				1.02%
ScR 361.383	252932.6	106.2	%	0.60				0.56%
Ag 328.068†	166750.4	0.9697	mg/L ✓	0.01274	0.9697	mg/L	0.01274	1.31%
Al 308.215†	2471.6	2.031	mg/L ✓	0.0087	2.031	mg/L	0.0087	0.43%
As 188.979†	4.8	0.00327	mg/L	0.001591	0.00327	mg/L	0.001591	48.63%
B 249.677†	3693.3	1.975	mg/L ✓	0.0196	1.975	mg/L	0.0196	0.99%
Ba 233.527†	13937.7	1.991	mg/L ✓	0.0158	1.991	mg/L	0.0158	0.79%
Be 313.042†	-1.2	-0.00001	mg/L	0.000019	-0.00001	mg/L	0.000019	330.76%
Ca 317.933†	27.7	0.00363	mg/L	0.000718	0.00363	mg/L	0.000718	19.77%
Cd 228.802†	14.4	0.00028	mg/L	0.000113	0.00028	mg/L	0.000113	40.25%
Co 228.616†	15.5	-0.00023	mg/L	0.000144	-0.00023	mg/L	0.000144	64.08%
Cr 267.716†	-0.5	-0.00015	mg/L	0.000809	-0.00015	mg/L	0.000809	533.34%
Cu 324.752†	523.9	0.00280	mg/L	0.000368	0.00280	mg/L	0.000368	13.15%
Fe 273.955†	2.2	0.00216	mg/L	0.002275	0.00216	mg/L	0.002275	105.15%
K 766.490†	45221.3	20.30	mg/L ✓	0.163	20.30	mg/L	0.163	0.81%
Mg 279.077†	-0.7	-0.00078	mg/L	0.002818	-0.00078	mg/L	0.002818	362.95%
Mn 257.610†	3.0	0.00007	mg/L	0.000141	0.00007	mg/L	0.000141	189.12%
Mo 202.031†	8.3	0.00080	mg/L	0.000093	0.00080	mg/L	0.000093	11.64%
Na 589.592†	11244.6	1.981	mg/L ✓	0.0067	1.981	mg/L	0.0067	0.34%
Na 330.237†	40.6	1.963	mg/L	0.1053	1.963	mg/L	0.1053	5.36%
Ni 231.604†	1.3	0.00087	mg/L	0.003305	0.00087	mg/L	0.003305	379.66%
Pb 220.353†	5.1	0.00128	mg/L	0.001075	0.00128	mg/L	0.001075	83.77%
Sb 206.836†	1.1	0.00012	mg/L	0.002899	0.00012	mg/L	0.002899	>999.9%
Se 196.026†	1.2	0.00167	mg/L	0.001075	0.00167	mg/L	0.001075	64.41%
Si 288.158†	2448.6	2.200	mg/L ✓	0.0185	2.200	mg/L	0.0185	0.84%
Sn 189.927†	-3.0	-0.00087	mg/L	0.000322	-0.00087	mg/L	0.000322	37.01%
Sr 421.552†	38.7	0.00009	mg/L	0.000143	0.00009	mg/L	0.000143	158.48%
Ti 334.903†	43.0	0.00248	mg/L	0.001259	0.00248	mg/L	0.001259	50.84%
Tl 190.801†	1.7	0.00092	mg/L	0.001671	0.00092	mg/L	0.001671	182.26%
V 292.402†	23.1	0.00023	mg/L	0.000108	0.00023	mg/L	0.000108	47.74%
Zn 206.200†	15.2	0.00771	mg/L	0.001465	0.00771	mg/L	0.001465	18.99%

Sequence No.: 12
Sample ID: RH30 A SWC

Autosampler Location: 28
Date Collected: 8/9/2010 1:20:45 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RH30 A SWC

Analyte Back Pressure Flow
All 163.0 kPa 0.55 L/min

rem

Mean Data: RH30 A SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2227912.4	103.4 %	0.54			0.52%
ScR 361.383	264288.0	110.9 %	0.54			0.49%
Ag 328.068†	-1559.7	-0.00011 mg/L	0.000069	-0.00022 mg/L	0.000138	63.81%
Al 308.215†	169819.0	139.5 mg/L	0.35	279.0 mg/L	0.70	0.25%
As 188.979†	55.9	0.05814 mg/L	0.001236	0.1163 mg/L	0.00247	2.13%
B 249.677†	53.9	0.02841 mg/L	0.004319	0.05681 mg/L	0.008639	15.21%
Ba 233.527†	2277.1	0.3129 mg/L	0.00121	0.6258 mg/L	0.00243	0.39%
Be 313.042†	748.4	0.00174 mg/L	0.000046	0.00349 mg/L	0.000092	2.64%
Ca 317.933†	464133.5	60.74 mg/L	0.088	121.5 mg/L	0.18	0.14%
Cd 228.802†	64.0	0.00134 mg/L	0.000126	0.00267 mg/L	0.000251	9.41%
Co 228.616†	6032.9	0.1111 mg/L	0.00078	0.2221 mg/L	0.00155	0.70%
Cr 267.716†	644.3	0.1954 mg/L	0.00308	0.3908 mg/L	0.00616	1.58%
Cu 324.752†	87803.9	0.4896 mg/L	0.00540	0.9793 mg/L	0.01080	1.10%
Fe 273.955†	262935.9	256.9 mg/L	1.75	513.8 mg/L	3.50	0.68%
K 766.490†	24202.2	10.86 mg/L	0.035	21.72 mg/L	0.069	0.32%
Mg 279.077†	103493.1	109.3 mg/L	0.23	218.7 mg/L	0.47	0.21%
Mn 257.610†	130111.7	3.755 mg/L	0.0097	7.510 mg/L	0.0194	0.26%
Mo 202.031†	53.8	0.00509 mg/L	0.000487	0.01017 mg/L	0.000974	9.57%
Na 589.592†	33139.6	5.840 mg/L	0.0129	11.68 mg/L	0.026	0.22%
Na 330.237†	102.1	6.560 mg/L	0.1319	13.12 mg/L	0.264	2.01%
Ni 231.604†	750.0	0.4885 mg/L	0.00175	0.9770 mg/L	0.00349	0.36%
Pb 220.353†	102.8	0.03673 mg/L	0.000597	0.07346 mg/L	0.001194	1.62%
Sb 206.836†	97.3	-0.00785 mg/L	0.002732	-0.01569 mg/L	0.005463	34.81%
Se 196.026†	-85.0	-0.01848 mg/L	0.005193	-0.03695 mg/L	0.010386	28.11%
Si 288.158†	3032.0	2.740 mg/L	0.0222	5.479 mg/L	0.0444	0.81%
Sn 189.927†	-45.8	-0.00288 mg/L	0.001750	-0.00576 mg/L	0.003501	60.81%
Sr 421.552†	111785.3	0.2601 mg/L	0.00145	0.5201 mg/L	0.00290	0.56%
Ti 334.903†	178518.2	10.29 mg/L	0.021	20.59 mg/L	0.042	0.20%
Tl 190.801†	-15.8	-0.03384 mg/L	0.000807	-0.06768 mg/L	0.001614	2.39%
V 292.402†	47824.2	0.4280 mg/L	0.00709	0.8560 mg/L	0.01419	1.66%
Zn 206.200†	857.2	0.4395 mg/L	0.00068	0.8791 mg/L	0.00136	0.15%

Sequence No.: 13
 Sample ID: RH30 B SWC

Autosampler Location: 29
 Date Collected: 8/9/2010 1:26:47 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RH30 B SWC

Analyte Back Pressure Flow
 All 164.0 kPa 0.55 L/min

Mean Data: RH30 B SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2269709.1	105.3 %	0.52			0.50%
ScR 361.383	265418.6	111.4 %	0.46			0.41%
Ag 328.068†	-1110.5	-0.00026 mg/L	0.000388	-0.00052 mg/L	0.000775	147.93%
Al 308.215†	158298.0	130.0 mg/L	0.15	260.1 mg/L	0.30	0.11%
As 188.979†	62.4	0.05897 mg/L	0.001317	0.1179 mg/L	0.00263	2.23%
B 249.677†	39.4	0.02076 mg/L	0.002223	0.04151 mg/L	0.004445	10.71%
Ba 233.527†	3943.2	0.5522 mg/L	0.00431	1.104 mg/L	0.0086	0.78%
Be 313.042†	696.9	0.00148 mg/L	0.000045	0.00297 mg/L	0.000091	3.07%
Ca 317.933†	509317.3	66.65 mg/L	0.069	133.3 mg/L	0.14	0.10%
Cd 228.802†	58.5	0.00112 mg/L	0.000054	0.00225 mg/L	0.000108	4.80%
Co 228.616†	4055.7	0.07185 mg/L	0.000651	0.1437 mg/L	0.00130	0.91%
Cr 267.716†	444.1	0.1356 mg/L	0.00047	0.2712 mg/L	0.00095	0.35%
Cu 324.752†	91069.8	0.5050 mg/L	0.00495	1.010 mg/L	0.0099	0.98%
Fe 273.955†	233981.2	228.6 mg/L	0.94	457.2 mg/L	1.88	0.41%
K 766.490†	32494.7	14.58 mg/L	0.025	29.17 mg/L	0.049	0.17%
Mg 279.077†	57100.4	60.28 mg/L	0.092	120.6 mg/L	0.18	0.15%
Mn 257.610†	451265.6	13.03 mg/L	0.015	26.05 mg/L	0.030	0.12%
Mo 202.031†	48.2	0.00455 mg/L	0.000630	0.00911 mg/L	0.001259	13.82%
Na 589.592†	47675.9	8.401 mg/L	0.0049	16.80 mg/L	0.010	0.06%
Na 330.237†	162.6	9.047 mg/L	0.2784	18.09 mg/L	0.557	3.08%
Ni 231.604†	234.6	0.1528 mg/L	0.00129	0.3057 mg/L	0.00257	0.84%
Pb 220.353†	156.6	0.04339 mg/L	0.001153	0.08678 mg/L	0.002306	2.66%
Sb 206.836†	94.8	-0.00402 mg/L	0.002016	-0.00805 mg/L	0.004032	50.09%
Se 196.026†	-71.2	-0.01990 mg/L	0.004327	-0.03980 mg/L	0.008654	21.74%
Si 288.158†	2764.0	2.492 mg/L	0.0194	4.984 mg/L	0.0388	0.78%
Sn 189.927†	-49.6	-0.00569 mg/L	0.001258	-0.01139 mg/L	0.002516	22.09%
Sr 421.552†	177217.0	0.4123 mg/L	0.00108	0.8245 mg/L	0.00215	0.26%
Ti 334.903†	147367.5	8.496 mg/L	0.0036	16.99 mg/L	0.007	0.04%
Tl 190.801†	20.9	-0.02348 mg/L	0.004362	-0.04696 mg/L	0.008725	18.58%
V 292.402†	50821.1	0.4629 mg/L	0.00471	0.9258 mg/L	0.00943	1.02%
Zn 206.200†	992.8	0.5076 mg/L	0.00211	1.015 mg/L	0.0042	0.42%

Sequence No.: 14
Sample ID: RH30 C SWC

Autosampler Location: 30
Date Collected: 8/9/2010 1:32:50 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RH30 C SWC

Analyte Back Pressure Flow
All 164.0 kPa 0.55 L/min

Mean Data: RH30 C SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2255375.4	104.7	%	0.52			0.50%
ScR 361.383	267977.1	112.5	%	0.46			0.41%
Ag 328.068†	-1283.5	-0.00014	mg/L	0.000219	-0.00027 mg/L	0.000438	160.56%
Al 308.215†	178831.0	146.9	mg/L	0.16	293.8 mg/L	0.33	0.11%
As 188.979†	59.2	0.05693	mg/L	0.000891	0.1139 mg/L	0.00178	1.57%
B 249.677†	39.8	0.02080	mg/L	0.002127	0.04161 mg/L	0.004254	10.22%
Ba 233.527†	3421.0	0.4778	mg/L	0.00401	0.9557 mg/L	0.00802	0.84%
Be 313.042†	680.0	0.00139	mg/L	0.000017	0.00277 mg/L	0.000034	1.24%
Ca 317.933†	780153.7	102.1	mg/L	0.13	204.2 mg/L	0.25	0.12%
Cd 228.802†	65.1	0.00131	mg/L	0.000330	0.00262 mg/L	0.000660	25.18%
Co 228.616†	5567.5	0.1038	mg/L	0.00051	0.2077 mg/L	0.00101	0.49%
Cr 267.716†	1593.5	0.4811	mg/L	0.00438	0.9622 mg/L	0.00876	0.91%
Cu 324.752†	48432.3	0.2767	mg/L	0.00052	0.5533 mg/L	0.00103	0.19%
Fe 273.955†	229176.4	223.9	mg/L	0.65	447.8 mg/L	1.29	0.29%
K 766.490†	24690.0	11.08	mg/L	0.011	22.16 mg/L	0.022	0.10%
Mg 279.077†	75784.7	80.05	mg/L	0.127	160.1 mg/L	0.25	0.16%
Mn 257.610†	136293.4	3.933	mg/L	0.0041	7.867 mg/L	0.0082	0.10%
Mo 202.031†	45.6	0.00428	mg/L	0.000222	0.00857 mg/L	0.000445	5.19%
Na 589.592†	33993.9	5.990	mg/L	0.0275	11.98 mg/L	0.055	0.46%
Na 330.237†	115.0	6.604	mg/L	0.2799	13.21 mg/L	0.560	4.24%
Ni 231.604†	507.4	0.3305	mg/L	0.00571	0.6611 mg/L	0.01142	1.73%
Pb 220.353†	62.3	0.03614	mg/L	0.000678	0.07229 mg/L	0.001356	1.88%
Sb 206.836†	115.1	-0.00186	mg/L	0.003228	-0.00372 mg/L	0.006457	173.36%
Se 196.026†	-79.6	-0.01723	mg/L	0.001811	-0.03445 mg/L	0.003622	10.51%
Si 288.158†	2679.1	2.419	mg/L	0.0151	4.837 mg/L	0.0303	0.63%
Sn 189.927†	-52.9	-0.00408	mg/L	0.001531	-0.00816 mg/L	0.003061	37.51%
Sr 421.552†	199668.6	0.4645	mg/L	0.00093	0.9290 mg/L	0.00186	0.20%
Ti 334.903†	150935.0	8.700	mg/L	0.0097	17.40 mg/L	0.019	0.11%
Tl 190.801†	-8.5	-0.02775	mg/L	0.003790	-0.05550 mg/L	0.007580	13.66%
V 292.402†	51791.9	0.4736	mg/L	0.00152	0.9472 mg/L	0.00304	0.32%
Zn 206.200†	702.6	0.3612	mg/L	0.00225	0.7225 mg/L	0.00450	0.62%

Sequence No.: 15
Sample ID: RH51 A SWC

Autosampler Location: 31
Date Collected: 8/9/2010 1:38:40 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RH51 A SWC

Analyte Back Pressure Flow
All 164.0 kPa 0.55 L/min

Mean Data: RH51 A SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2289221.3	106.2	%	0.99			0.94%
ScR 361.383	270341.7	113.5	%	0.65			0.57%
Ag 328.068†	-746.5	0.00355	mg/L	0.000247	0.00711 mg/L	0.000495	6.97%
Al 308.215†	191812.4	157.6	mg/L	0.31	315.2 mg/L	0.62	0.20%
As 188.979†	83.0	0.06322	mg/L	0.002906	0.1264 mg/L	0.00581	4.60%
B 249.677†	315.9	0.1685	mg/L	0.00106	0.3371 mg/L	0.00211	0.63%
Ba 233.527†	2653.3	0.3685	mg/L	0.00138	0.7370 mg/L	0.00275	0.37%
Be 313.042†	890.4	0.00258	mg/L	0.000035	0.00516 mg/L	0.000070	1.36%
Ca 317.933†	261890.7	34.27	mg/L	0.030	68.54 mg/L	0.059	0.09%
Cd 228.802†	154.1	0.00310	mg/L	0.000065	0.00620 mg/L	0.000131	2.11%
Co 228.616†	3936.7	0.07736	mg/L	0.000503	0.1547 mg/L	0.00101	0.65%
Cr 267.716†	1819.7	0.5505	mg/L	0.00279	1.101 mg/L	0.0056	0.51%
Cu 324.752†	50024.4	0.2859	mg/L	0.00362	0.5718 mg/L	0.00724	1.27%
Fe 273.955†	223275.5	218.2	mg/L	0.27	436.3 mg/L	0.54	0.12%
K 766.490†	51751.7	23.23	mg/L	0.065	46.45 mg/L	0.130	0.28%
Mg 279.077†	73090.5	77.21	mg/L	0.098	154.4 mg/L	0.20	0.13%
Mn 257.610†	82113.9	2.369	mg/L	0.0045	4.739 mg/L	0.0091	0.19%
Mo 202.031†	50.0	0.00467	mg/L	0.000368	0.00934 mg/L	0.000735	7.87%
Na 589.592†	330797.7	58.29	mg/L	0.094	116.6 mg/L	0.19	0.16%
Na 330.237†	1260.8	61.36	mg/L	0.456	122.7 mg/L	0.91	0.74%
Ni 231.604†	733.7	0.4779	mg/L	0.00236	0.9559 mg/L	0.00472	0.49%
Pb 220.353†	1111.9	0.1866	mg/L	0.00228	0.3732 mg/L	0.00457	1.22%
Sb 206.836†	128.3	-0.00450	mg/L	0.001260	-0.00899 mg/L	0.002520	28.01%
Se 196.026†	-79.9	-0.01494	mg/L	0.010085	-0.02989 mg/L	0.020169	67.49%
Si 288.158†	9449.9	8.503	mg/L	0.0171	17.01 mg/L	0.034	0.20%
Sn 189.927†	17.1	0.01039	mg/L	0.000827	0.02077 mg/L	0.001653	7.96%
Sr 421.552†	126160.3	0.2935	mg/L	0.00112	0.5870 mg/L	0.00225	0.38%
Ti 334.903†	67121.2	3.869	mg/L	0.0058	7.739 mg/L	0.0116	0.15%
Tl 190.801†	-19.4	-0.02262	mg/L	0.000777	-0.04523 mg/L	0.001554	3.44%
V 292.402†	41588.9	0.3794	mg/L	0.00384	0.7587 mg/L	0.00767	1.01%
Zn 206.200†	1318.3	0.6721	mg/L	0.00222	1.344 mg/L	0.0044	0.33%

Sequence No.: 16
 Sample ID: RH51 B SWC

Autosampler Location: 32
 Date Collected: 8/9/2010 1:44:44 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RH51 B SWC

Analyte Back Pressure Flow
 All 164.0 kPa 0.55 L/min

Mean Data: RH51 B SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2232355.8	103.6	%	3.00				2.90%
ScR 361.383	269163.3	113.0	%	0.29				0.26%
Ag 328.068†	-768.7	0.00256	mg/L	0.000255	0.00512	mg/L	0.000510	9.95%
Al 308.215†	187711.3	154.2	mg/L	0.29	308.4	mg/L	0.57	0.19%
As 188.979†	70.7	0.05558	mg/L	0.001841	0.1112	mg/L	0.00368	3.31%
B 249.677†	326.6	0.1743	mg/L	0.00154	0.3485	mg/L	0.00307	0.88%
Ba 233.527†	3350.8	0.4692	mg/L	0.00182	0.9383	mg/L	0.00364	0.39%
Be 313.042†	849.7	0.00242	mg/L	0.000039	0.00484	mg/L	0.000078	1.61%
Ca 317.933†	282136.6	36.92	mg/L	0.031	73.84	mg/L	0.063	0.08%
Cd 228.802†	118.9	0.00240	mg/L	0.000281	0.00481	mg/L	0.000561	11.67%
Co 228.616†	3610.6	0.06982	mg/L	0.002040	0.1396	mg/L	0.00408	2.92%
Cr 267.716†	1680.3	0.5081	mg/L	0.00178	1.016	mg/L	0.0036	0.35%
Cu 324.752†	48239.5	0.2743	mg/L	0.00670	0.5485	mg/L	0.01340	2.44%
Fe 273.955†	200250.7	195.7	mg/L	0.81	391.3	mg/L	1.61	0.41%
K 766.490†	51642.1	23.18	mg/L	0.063	46.35	mg/L	0.126	0.27%
Mg 279.077†	69428.0	73.34	mg/L	0.135	146.7	mg/L	0.27	0.18%
Mn 257.610†	75379.4	2.175	mg/L	0.0028	4.350	mg/L	0.0056	0.13%
Mo 202.031†	46.9	0.00439	mg/L	0.000558	0.00877	mg/L	0.001117	12.73%
Na 589.592†	333029.4	58.68	mg/L	0.174	117.4	mg/L	0.35	0.30%
Na 330.237†	1253.9	61.09	mg/L	0.315	122.2	mg/L	0.63	0.52%
Ni 231.604†	686.3	0.4470	mg/L	0.00215	0.8940	mg/L	0.00429	0.48%
Pb 220.353†	1037.3	0.1766	mg/L	0.00672	0.3532	mg/L	0.01343	3.80%
Sb 206.836†	123.1	-0.00189	mg/L	0.004804	-0.00378	mg/L	0.009607	253.91%
Se 196.026†	-75.4	-0.01463	mg/L	0.010679	-0.02926	mg/L	0.021358	73.00%
Si 288.158†	7719.4	6.947	mg/L	0.0167	13.89	mg/L	0.033	0.24%
Sn 189.927†	2.3	0.00629	mg/L	0.001361	0.01258	mg/L	0.002723	21.64%
Sr 421.552†	129934.3	0.3023	mg/L	0.00087	0.6045	mg/L	0.00173	0.29%
Ti 334.903†	72494.3	4.179	mg/L	0.0077	8.358	mg/L	0.0154	0.18%
Tl 190.801†	-20.9	-0.02359	mg/L	0.004392	-0.04718	mg/L	0.008784	18.62%
V 292.402†	41228.7	0.3779	mg/L	0.00910	0.7559	mg/L	0.01819	2.41%
Zn 206.200†	1175.3	0.5995	mg/L	0.00365	1.199	mg/L	0.0073	0.61%

Sequence No.: 17
 Sample ID: RH30 MBSPK SWC

Autosampler Location: 33
 Date Collected: 8/9/2010 1:50:48 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RH30 MBSPK SWC

Analyte Back Pressure Flow
 All 164.0 kPa 0.55 L/min

Mean Data: RH30 MBSPK SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2296325.0	106.6	%	0.52			0.49%
ScR 361.383	268840.9	112.8	%	1.20			1.06%
Ag 328.068†	82709.5	0.4810	mg/L	0.00216	0.9620 mg/L	0.00433	0.45%
Al 308.215†	2387.6	1.954	mg/L	0.0225	3.908 mg/L	0.0450	1.15%
As 188.979†	2979.9	2.008	mg/L	0.0081	4.017 mg/L	0.0161	0.40%
B 249.677†	0.2	-0.00144	mg/L	0.001847	-0.00289 mg/L	0.003694	127.90%
Ba 233.527†	13381.4	1.911	mg/L	0.0244	3.822 mg/L	0.0487	1.28%
Be 313.042†	122201.2	0.5038	mg/L	0.00108	1.008 mg/L	0.0022	0.22%
Ca 317.933†	77107.1	10.09	mg/L	0.024	20.18 mg/L	0.048	0.24%
Cd 228.802†	24806.4	0.4906	mg/L	0.00365	0.9811 mg/L	0.00729	0.74%
Co 228.616†	22337.2	0.4773	mg/L	0.00269	0.9546 mg/L	0.00537	0.56%
Cr 267.716†	1613.6	0.4864	mg/L	0.00458	0.9728 mg/L	0.00916	0.94%
Cu 324.752†	91109.3	0.4874	mg/L	0.00356	0.9747 mg/L	0.00711	0.73%
Fe 273.955†	2050.9	2.003	mg/L	0.0307	4.007 mg/L	0.0614	1.53%
K 766.490†	21861.8	9.812	mg/L	0.0300	19.62 mg/L	0.060	0.31%
Mg 279.077†	9463.2	10.01	mg/L	0.124	20.02 mg/L	0.249	1.24%
Mn 257.610†	17003.7	0.4913	mg/L	0.00001	0.9827 mg/L	0.00001	0.00%
Mo 202.031†	9.2	0.00080	mg/L	0.000095	0.00160 mg/L	0.000190	11.84%
Na 589.592†	54841.7	9.664	mg/L	0.0317	19.33 mg/L	0.063	0.33%
Na 330.237†	222.8	10.56	mg/L	0.348	21.11 mg/L	0.697	3.30%
Ni 231.604†	736.8	0.4790	mg/L	0.00698	0.9580 mg/L	0.01397	1.46%
Pb 220.353†	13934.8	1.952	mg/L	0.0179	3.904 mg/L	0.0358	0.92%
Sb 206.836†	3.8	-0.00501	mg/L	0.001697	-0.01002 mg/L	0.003394	33.88%
Se 196.026†	1999.1	2.018	mg/L	0.0125	4.037 mg/L	0.0250	0.62%
Si 288.158†	7.2	0.00826	mg/L	0.001391	0.01652 mg/L	0.002782	16.84%
Sn 189.927†	-10.5	-0.00218	mg/L	0.000418	-0.00435 mg/L	0.000836	19.21%
Sr 421.552†	212273.8	0.4938	mg/L	0.00154	0.9876 mg/L	0.00309	0.31%
Ti 334.903†	17.8	0.00052	mg/L	0.000655	0.00103 mg/L	0.001310	126.73%
Tl 190.801†	3730.1	1.965	mg/L	0.0062	3.931 mg/L	0.0124	0.32%
V 292.402†	50862.5	0.4975	mg/L	0.00450	0.9949 mg/L	0.00900	0.90%
Zn 206.200†	937.7	0.4768	mg/L	0.00567	0.9536 mg/L	0.01134	1.19%

Sequence No.: 18

Sample ID: CV 2

Autosampler Location: 7

Date Collected: 8/9/2010 1:56:51 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	164.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected			Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.	Calib. Units		Conc.	Units		
ScA 357.253	2254133.1	104.6	%	0.53				0.51%
ScR 361.383	265358.8	111.4	%	1.04				0.93%
Ag 328.068†	160764.3	0.9349	mg/L	0.00364	0.9349	mg/L	0.00364	0.39%
Al 308.215†	2407.0	1.940	mg/L	0.0176	1.940	mg/L	0.0176	0.91%
As 188.979†	2929.7	1.974	mg/L	0.0099	1.974	mg/L	0.0099	0.50%
B 249.677†	1753.6	0.9363	mg/L	0.01738	0.9363	mg/L	0.01738	1.86%
Ba 233.527†	6703.3	0.9570	mg/L	0.00961	0.9570	mg/L	0.00961	1.00%
Be 313.042†	235444.9	0.9706	mg/L	0.00237	0.9706	mg/L	0.00237	0.24%
Ca 317.933†	15513.0	2.030	mg/L	0.0255	2.030	mg/L	0.0255	1.26%
Cd 228.802†	49796.2	0.9885	mg/L	0.00435	0.9885	mg/L	0.00435	0.44%
Co 228.616†	44679.7	0.9540	mg/L	0.00167	0.9540	mg/L	0.00167	0.17%
Cr 267.716†	3203.2	0.9662	mg/L	0.01090	0.9662	mg/L	0.01090	1.13%
Cu 324.752†	191584.6	1.024	mg/L	0.0020	1.024	mg/L	0.0020	0.20%
Fe 273.955†	1987.0	1.941	mg/L	0.0202	1.941	mg/L	0.0202	1.04%
K 766.490†	42536.1	19.09	mg/L	0.065	19.09	mg/L	0.065	0.34%
Mg 279.077†	1856.7	1.968	mg/L	0.0227	1.968	mg/L	0.0227	1.16%
Mn 257.610†	33202.5	0.9590	mg/L	0.00998	0.9590	mg/L	0.00998	1.04%
Mo 202.031†	10117.1	0.9648	mg/L	0.00343	0.9648	mg/L	0.00343	0.36%
Na 589.592†	264603.8	46.63	mg/L	0.328	46.63	mg/L	0.328	0.70%
Na 330.237†	1006.3	48.55	mg/L	0.642	48.55	mg/L	0.642	1.32%
Ni 231.604†	1486.2	0.9687	mg/L	0.01249	0.9687	mg/L	0.01249	1.29%
Pb 220.353†	13822.1	1.937	mg/L	0.0097	1.937	mg/L	0.0097	0.50%
Sb 206.836†	3936.9	2.114	mg/L	0.0097	2.114	mg/L	0.0097	0.46%
Se 196.026†	1947.4	1.965	mg/L	0.0099	1.965	mg/L	0.0099	0.51%
Si 288.158†	2316.9	2.085	mg/L	0.0146	2.085	mg/L	0.0146	0.70%
Sn 189.927†	3164.0	0.9075	mg/L	0.00394	0.9075	mg/L	0.00394	0.43%
Sr 421.552†	417332.7	0.9709	mg/L	0.00180	0.9709	mg/L	0.00180	0.19%
Ti 334.903†	16682.5	0.9609	mg/L	0.00168	0.9609	mg/L	0.00168	0.17%
Tl 190.801†	3668.9	1.927	mg/L	0.0100	1.927	mg/L	0.0100	0.52%
V 292.402†	98406.9	0.9681	mg/L	0.00469	0.9681	mg/L	0.00469	0.48%
Zn 206.200†	1920.6	0.9752	mg/L	0.01194	0.9752	mg/L	0.01194	1.22%

Sequence No.: 19
 Sample ID: CB *2*

Autosampler Location: 1
 Date Collected: 8/9/2010 2:02:52 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 164.0 kPa 0.55 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2300700.9	106.8	%	0.56				0.53%
ScR 361.383	262541.2	110.2	%	0.38				0.35%
Ag 328.068†	49.2	0.00029	mg/L	0.000060	0.00029	mg/L	0.000060	21.05%
Al 308.215†	8.3	0.00680	mg/L	0.014451	0.00680	mg/L	0.014451	212.41%
As 188.979†	4.6	0.00311	mg/L	0.000827	0.00311	mg/L	0.000827	26.58%
B 249.677†	6.9	0.00369	mg/L	0.003216	0.00369	mg/L	0.003216	87.23%
Ba 233.527†	-0.9	-0.00013	mg/L	0.000223	-0.00013	mg/L	0.000223	166.69%
Be 313.042†	4.4	0.00002	mg/L	0.000038	0.00002	mg/L	0.000038	206.70%
Ca 317.933†	6.9	0.00090	mg/L	0.001456	0.00090	mg/L	0.001456	161.04%
Cd 228.802†	-3.1	-0.00007	mg/L	0.000070	-0.00007	mg/L	0.000070	105.59%
Co 228.616†	-3.0	-0.00006	mg/L	0.000119	-0.00006	mg/L	0.000119	183.05%
Cr 267.716†	1.6	0.00047	mg/L	0.000725	0.00047	mg/L	0.000725	153.01%
Cu 324.752†	-135.2	-0.00072	mg/L	0.000211	-0.00072	mg/L	0.000211	29.16%
Fe 273.955†	3.6	0.00353	mg/L	0.002445	0.00353	mg/L	0.002445	69.21%
K 766.490†	-88.8	-0.03983	mg/L	0.024222	-0.03983	mg/L	0.024222	60.81%
Mg 279.077†	-5.9	-0.00622	mg/L	0.003918	-0.00622	mg/L	0.003918	62.97%
Mn 257.610†	0.8	0.00002	mg/L	0.000052	0.00002	mg/L	0.000052	215.45%
Mo 202.031†	-4.8	-0.00046	mg/L	0.000089	-0.00046	mg/L	0.000089	19.34%
Na 589.592†	204.8	0.03609	mg/L	0.010714	0.03609	mg/L	0.010714	29.69%
Na 330.237†	0.6	0.03002	mg/L	0.741091	0.03002	mg/L	0.741091	>999.9%
Ni 231.604†	0.1	0.00009	mg/L	0.001880	0.00009	mg/L	0.001880	>999.9%
Pb 220.353†	1.2	0.00017	mg/L	0.001289	0.00017	mg/L	0.001289	780.71%
Sb 206.836†	-2.2	-0.00118	mg/L	0.002155	-0.00118	mg/L	0.002155	182.58%
Se 196.026†	2.7	0.00275	mg/L	0.005339	0.00275	mg/L	0.005339	194.21%
Si 288.158†	-0.2	-0.00019	mg/L	0.003386	-0.00019	mg/L	0.003386	>999.9%
Sn 189.927†	-1.7	-0.00048	mg/L	0.001145	-0.00048	mg/L	0.001145	238.89%
Sr 421.552†	-14.6	-0.00003	mg/L	0.000089	-0.00003	mg/L	0.000089	261.13%
Ti 334.903†	-4.7	-0.00027	mg/L	0.000860	-0.00027	mg/L	0.000860	314.47%
Tl 190.801†	6.3	0.00335	mg/L	0.000613	0.00335	mg/L	0.000613	18.27%
V 292.402†	-6.4	-0.00006	mg/L	0.000142	-0.00006	mg/L	0.000142	225.83%
Zn 206.200†	0.8	0.00041	mg/L	0.000978	0.00041	mg/L	0.000978	240.72%

Sequence No.: 20
Sample ID: RH51 MB1 SWC

Autosampler Location: 34
Date Collected: 8/9/2010 2:08:50 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RH51 MB1 SWC

Analyte	Back Pressure	Flow
All	164.0 kPa	0.55 L/min

Mean Data: RH51 MB1 SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2314418.6	107.4	%	0.10				0.09%
ScR 361.383	264732.6	111.1	%	0.79				0.71%
Ag 328.068†	36.8	0.00021	mg/L	0.000099	0.00043	mg/L	0.000198	46.20%
Al 308.215†	-0.4	-0.00036	mg/L	0.006643	-0.00071	mg/L	0.013285	>999.9%
As 188.979†	1.9	0.00128	mg/L	0.001255	0.00257	mg/L	0.002511	97.78%
B 249.677†	-5.3	-0.00286	mg/L	0.002307	-0.00572	mg/L	0.004614	80.65%
Ba 233.527†	-2.5	-0.00035	mg/L	0.000354	-0.00071	mg/L	0.000709	100.16%
Be 313.042†	-15.7	-0.00006	mg/L	0.000068	-0.00013	mg/L	0.000136	105.05%
Ca 317.933†	86.6	0.01133	mg/L	0.004650	0.02266	mg/L	0.009300	41.05%
Cd 228.802†	-0.3	-0.00001	mg/L	0.000090	-0.00002	mg/L	0.000179	996.84%
Co 228.616†	1.6	0.00003	mg/L	0.000076	0.00006	mg/L	0.000152	238.41%
Cr 267.716†	-1.1	-0.00034	mg/L	0.001160	-0.00068	mg/L	0.002321	341.23%
Cu 324.752†	-323.5	-0.00173	mg/L	0.000043	-0.00346	mg/L	0.000086	2.48%
Fe 273.955†	4.5	0.00438	mg/L	0.002912	0.00876	mg/L	0.005823	66.46%
K 766.490†	-49.3	-0.02214	mg/L	0.006133	-0.04428	mg/L	0.012265	27.70%
Mg 279.077†	2.5	0.00268	mg/L	0.004443	0.00535	mg/L	0.008886	166.04%
Mn 257.610†	1.2	0.00003	mg/L	0.000071	0.00007	mg/L	0.000142	203.72%
Mo 202.031†	-4.3	-0.00041	mg/L	0.000358	-0.00081	mg/L	0.000715	88.14%
Na 589.592†	38.4	0.00677	mg/L	0.005467	0.01354	mg/L	0.010935	80.77%
Na 330.237†	3.0	0.1437	mg/L	0.67166	0.2874	mg/L	1.34331	467.40%
Ni 231.604†	0.6	0.00038	mg/L	0.003484	0.00075	mg/L	0.006967	925.64%
Pb 220.353†	-5.3	-0.00075	mg/L	0.000196	-0.00149	mg/L	0.000392	26.24%
Sb 206.836†	-6.4	-0.00345	mg/L	0.002989	-0.00690	mg/L	0.005978	86.59%
Se 196.026†	1.2	0.00118	mg/L	0.004359	0.00236	mg/L	0.008718	369.65%
Si 288.158†	4.7	0.00422	mg/L	0.003269	0.00844	mg/L	0.006537	77.44%
Sn 189.927†	-5.0	-0.00144	mg/L	0.001254	-0.00288	mg/L	0.002508	87.04%
Sr 421.552†	-38.2	-0.00009	mg/L	0.000064	-0.00018	mg/L	0.000127	71.64%
Ti 334.903†	21.3	0.00123	mg/L	0.001124	0.00246	mg/L	0.002248	91.33%
Tl 190.801†	-0.6	-0.00031	mg/L	0.000745	-0.00062	mg/L	0.001489	240.63%
V 292.402†	4.6	0.00004	mg/L	0.000233	0.00008	mg/L	0.000465	601.01%
Zn 206.200†	1.6	0.00080	mg/L	0.001348	0.00159	mg/L	0.002696	169.35%

Sequence No.: 21
 Sample ID: RG24 A WMN

Autosampler Location: 35
 Date Collected: 8/9/2010 2:14:52 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG24 A WMN

Analyte Back Pressure Flow
 All 165.0 kPa 0.55 L/min

Mean Data: RG24 A WMN

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2288135.0	106.2 %	0.69			0.65%
ScR 361.383	274492.2	115.2 %	0.66			0.57%
Ag 328.068†	215.2	0.00014 mg/L	0.000239	0.00014 mg/L	0.000239	169.87%
Al 308.215†	19.0	0.01558 mg/L	0.006877	0.01558 mg/L	0.006877	44.13%
As 188.979†	0.8	0.00055 mg/L	0.001507	0.00055 mg/L	0.001507	272.79%
B 249.677†	136.7	0.07310 mg/L	0.002087	0.07310 mg/L	0.002087	2.86%
Ba 233.527†	155.0	0.02214 mg/L	0.000383	0.02214 mg/L	0.000383	1.73%
Be 313.042†	-28.8	-0.00012 mg/L	0.000074	-0.00012 mg/L	0.000074	62.42%
Ca 317.933†	856489.6	112.1 mg/L	0.22	112.1 mg/L	0.22	0.20%
Cd 228.802†	-10.3	-0.00020 mg/L	0.000101	-0.00020 mg/L	0.000101	49.32%
Co 228.616†	26.6	0.00055 mg/L	0.000106	0.00055 mg/L	0.000106	19.06%
Cr 267.716†	5.4	-0.00153 mg/L	0.001160	-0.00153 mg/L	0.001160	75.70%
Cu 324.752†	-539.2	-0.00288 mg/L	0.000110	-0.00288 mg/L	0.000110	3.80%
Fe 273.955†	37.1	0.03625 mg/L	0.001287	0.03625 mg/L	0.001287	3.55%
K 766.490†	6938.6	3.114 mg/L	0.0758	3.114 mg/L	0.0758	2.43%
Mg 279.077†	43850.3	46.40 mg/L	0.504	46.40 mg/L	0.504	1.09%
Mn 257.610†	43424.7	1.254 mg/L	0.0136	1.254 mg/L	0.0136	1.08%
Mo 202.031†	9.9	0.00095 mg/L	0.000577	0.00095 mg/L	0.000577	60.87%
Na 589.592†	741267.2	130.6 mg/L	0.59	130.6 mg/L	0.59	0.45%
Na 330.237†	2836.4	136.4 mg/L	1.41	136.4 mg/L	1.41	1.03%
Ni 231.604†	15.0	0.00975 mg/L	0.000569	0.00975 mg/L	0.000569	5.84%
Pb 220.353†	-24.1	-0.00337 mg/L	0.000249	-0.00337 mg/L	0.000249	7.38%
Sb 206.836†	-18.5	-0.01012 mg/L	0.001047	-0.01012 mg/L	0.001047	10.34%
Se 196.026†	2.7	0.00152 mg/L	0.001100	0.00152 mg/L	0.001100	72.40%
Si 288.158†	14065.4	12.65 mg/L	0.075	12.65 mg/L	0.075	0.59%
Sn 189.927†	-48.6	-0.00656 mg/L	0.001230	-0.00656 mg/L	0.001230	18.75%
Sr 421.552†	159408.8	0.3708 mg/L	0.00088	0.3708 mg/L	0.00088	0.24%
Ti 334.903†	84.4	0.00049 mg/L	0.000554	0.00049 mg/L	0.000554	112.42%
Tl 190.801†	0.4	-0.00147 mg/L	0.000978	-0.00147 mg/L	0.000978	66.71%
V 292.402†	2.4	0.00021 mg/L	0.000101	0.00021 mg/L	0.000101	47.42%
Zn 206.200†	-8.2	-0.00004 mg/L	0.000097	-0.00004 mg/L	0.000097	231.52%

Sequence No.: 22
Sample ID: RG24 B WMN

Autosampler Location: 36
Date Collected: 8/9/2010 2:21:14 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG24 B WMN

Analyte Back Pressure Flow
All 164.0 kPa 0.55 L/min

Mean Data: RG24 B WMN

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2318389.5	107.6 %	2.34			2.18%
ScR 361.383	274324.1	115.1 %	0.79			0.68%
Ag 328.068†	10.8	-0.00019 mg/L	0.000288	-0.00019 mg/L	0.000288	153.96%
Al 308.215†	28.0	0.02296 mg/L	0.008293	0.02296 mg/L	0.008293	36.11%
As 188.979†	2.7	0.00183 mg/L	0.003080	0.00183 mg/L	0.003080	168.24%
B 249.677†	47.7	0.02548 mg/L	0.001646	0.02548 mg/L	0.001646	6.46%
Ba 233.527†	39.7	0.00567 mg/L	0.000353	0.00567 mg/L	0.000353	6.24%
Be 313.042†	-29.5	-0.00013 mg/L	0.000109	-0.00013 mg/L	0.000109	86.76%
Ca 317.933†	223591.3	29.26 mg/L	0.084	29.26 mg/L	0.084	0.29%
Cd 228.802†	-11.3	-0.00023 mg/L	0.000296	-0.00023 mg/L	0.000296	129.86%
Co 228.616†	122.8	0.00262 mg/L	0.000026	0.00262 mg/L	0.000026	1.00%
Cr 267.716†	1.1	-0.00072 mg/L	0.001720	-0.00072 mg/L	0.001720	238.58%
Cu 324.752†	-450.8	-0.00241 mg/L	0.000538	-0.00241 mg/L	0.000538	22.37%
Fe 273.955†	33.7	0.03294 mg/L	0.001368	0.03294 mg/L	0.001368	4.15%
K 766.490†	792.3	0.3556 mg/L	0.01634	0.3556 mg/L	0.01634	4.60%
Mg 279.077†	19987.9	21.15 mg/L	0.025	21.15 mg/L	0.025	0.12%
Mn 257.610†	3626.7	0.1047 mg/L	0.00007	0.1047 mg/L	0.00007	0.07%
Mo 202.031†	7.9	0.00076 mg/L	0.000146	0.00076 mg/L	0.000146	19.32%
Na 589.592†	182077.3	32.08 mg/L	0.069	32.08 mg/L	0.069	0.22%
Na 330.237†	710.4	34.16 mg/L	0.466	34.16 mg/L	0.466	1.36%
Ni 231.604†	4.5	0.00293 mg/L	0.002643	0.00293 mg/L	0.002643	90.35%
Pb 220.353†	-15.3	-0.00213 mg/L	0.000126	-0.00213 mg/L	0.000126	5.91%
Sb 206.836†	-16.7	-0.00905 mg/L	0.001480	-0.00905 mg/L	0.001480	16.35%
Se 196.026†	4.1	0.00405 mg/L	0.003510	0.00405 mg/L	0.003510	86.72%
Si 288.158†	6348.4	5.708 mg/L	0.0299	5.708 mg/L	0.0299	0.52%
Sn 189.927†	-23.9	-0.00467 mg/L	0.000441	-0.00467 mg/L	0.000441	9.46%
Sr 421.552†	55217.6	0.1285 mg/L	0.00034	0.1285 mg/L	0.00034	0.27%
Ti 334.903†	37.5	0.00102 mg/L	0.000976	0.00102 mg/L	0.000976	95.84%
Tl 190.801†	-3.2	-0.00186 mg/L	0.000002	-0.00186 mg/L	0.000002	0.08%
V 292.402†	125.1	0.00123 mg/L	0.000076	0.00123 mg/L	0.000076	6.18%
Zn 206.200†	14.9	0.00886 mg/L	0.001173	0.00886 mg/L	0.001173	13.25%

Sequence No.: 23

Sample ID: RG24 C WMN

RH30 A SJC

Autosampler Location: 37

Date Collected: 8/9/2010 2:27:31 PM

Data Type: Original

Dilution: 1X SX

20 8.9

Nebulizer Parameters: RG24 C WMN

Analyte Back Pressure Flow
All 164.0 kPa 0.55 L/min

Mean Data: RG24 C WMN

Table with 8 columns: Analyte, Mean Corrected Intensity, Calib. Conc. Units, Std.Dev., Sample Conc. Units, Std.Dev., RSD. Lists various elements like ScA, ScR, Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sn, Sr, Ti, Tl, V, Zn with their respective intensity and concentration values.

Sequence No.: 24
Sample ID: RH51 C SWC

Autosampler Location: 38
Date Collected: 8/9/2010 2:33:32 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RH51 C SWC

Analyte Back Pressure Flow
All 164.0 kPa 0.55 L/min

Mean Data: RH51 C SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2286999.7	106.1	%	0.75			0.71%
ScR 361.383	267923.2	112.4	%	2.18			1.94%
Ag 328.068†	-540.4	0.00420	mg/L	0.000160	0.00839 mg/L	0.000320	3.81%
Al 308.215†	190746.9	156.7	mg/L	2.09	313.4 mg/L	4.17	1.33%
As 188.979†	76.7	0.05956	mg/L	0.003130	0.1191 mg/L	0.00626	5.26%
B 249.677†	320.0	0.1708	mg/L	0.00722	0.3415 mg/L	0.01444	4.23%
Ba 233.527†	2942.2	0.4106	mg/L	0.00665	0.8211 mg/L	0.01331	1.62%
Be 313.042†	874.5	0.00253	mg/L	0.000090	0.00505 mg/L	0.000180	3.57%
Ca 317.933†	239968.0	31.40	mg/L	0.344	62.80 mg/L	0.687	1.09%
Cd 228.802†	129.2	0.00260	mg/L	0.000039	0.00521 mg/L	0.000078	1.50%
Co 228.616†	3654.0	0.07081	mg/L	0.000493	0.1416 mg/L	0.00099	0.70%
Cr 267.716†	1723.6	0.5213	mg/L	0.00839	1.043 mg/L	0.0168	1.61%
Cu 324.752†	46275.0	0.2643	mg/L	0.00328	0.5285 mg/L	0.00656	1.24%
Fe 273.955†	205947.3	201.2	mg/L	2.95	402.5 mg/L	5.90	1.47%
K 766.490†	51521.4	23.12	mg/L	0.380	46.25 mg/L	0.760	1.64%
Mg 279.077†	69345.0	73.25	mg/L	0.835	146.5 mg/L	1.67	1.14%
Mn 257.610†	66033.6	1.905	mg/L	0.0208	3.810 mg/L	0.0415	1.09%
Mo 202.031†	54.8	0.00514	mg/L	0.000446	0.01028 mg/L	0.000891	8.67%
Na 589.592†	321496.7	56.65	mg/L	0.816	113.3 mg/L	1.63	1.44%
Na 330.237†	1214.0	59.17	mg/L	0.881	118.3 mg/L	1.76	1.49%
Ni 231.604†	693.6	0.4518	mg/L	0.00935	0.9036 mg/L	0.01869	2.07%
Pb 220.353†	1133.9	0.1905	mg/L	0.00169	0.3810 mg/L	0.00338	0.89%
Sb 206.836†	115.7	-0.00755	mg/L	0.001536	-0.01509 mg/L	0.003073	20.36%
Se 196.026†	-78.6	-0.01615	mg/L	0.000191	-0.03230 mg/L	0.000381	1.18%
Si 288.158†	6897.0	6.208	mg/L	0.0840	12.42 mg/L	0.168	1.35%
Sn 189.927†	19.5	0.01091	mg/L	0.000456	0.02182 mg/L	0.000912	4.18%
Sr 421.552†	120343.7	0.2800	mg/L	0.00446	0.5599 mg/L	0.00891	1.59%
Ti 334.903†	72118.0	4.158	mg/L	0.0500	8.315 mg/L	0.0999	1.20%
Tl 190.801†	-19.7	-0.02260	mg/L	0.003602	-0.04521 mg/L	0.007203	15.93%
V 292.402†	41044.8	0.3756	mg/L	0.00649	0.7511 mg/L	0.01298	1.73%
Zn 206.200†	1294.9	0.6601	mg/L	0.01019	1.320 mg/L	0.0204	1.54%

Sequence No.: 25
Sample ID: RH51 DDUP SWC

Autosampler Location: 39
Date Collected: 8/9/2010 2:39:36 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RH51 DDUP SWC

Analyte Back Pressure Flow
All 165.0 kPa 0.55 L/min

Mean Data: RH51 DDUP SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2307381.4	107.1	%	0.29			0.27%
ScR 361.383	275377.9	115.6	%	1.84			1.59%
Ag 328.068†	-733.2	0.00319	mg/L	0.000217	0.00638 mg/L	0.000435	6.81%
Al 308.215†	185206.7	152.1	mg/L	0.26	304.3 mg/L	0.52	0.17%
As 188.979†	70.9	0.05579	mg/L	0.000629	0.1116 mg/L	0.00126	1.13%
B 249.677†	323.5	0.1726	mg/L	0.00484	0.3453 mg/L	0.00968	2.80%
Ba 233.527†	2770.2	0.3857	mg/L	0.00396	0.7714 mg/L	0.00792	1.03%
Be 313.042†	846.3	0.00241	mg/L	0.000064	0.00483 mg/L	0.000128	2.66%
Ca 317.933†	300909.7	39.38	mg/L	0.208	78.75 mg/L	0.415	0.53%
Cd 228.802†	132.7	0.00268	mg/L	0.000083	0.00536 mg/L	0.000165	3.09%
Co 228.616†	3869.2	0.07530	mg/L	0.000285	0.1506 mg/L	0.00057	0.38%
Cr 267.716†	1702.1	0.5148	mg/L	0.00441	1.030 mg/L	0.0088	0.86%
Cu 324.752†	47744.1	0.2726	mg/L	0.00101	0.5453 mg/L	0.00201	0.37%
Fe 273.955†	212034.2	207.2	mg/L	0.98	414.3 mg/L	1.96	0.47%
K 766.490†	51667.3	23.19	mg/L	0.033	46.38 mg/L	0.065	0.14%
Mg 279.077†	71635.6	75.67	mg/L	0.427	151.3 mg/L	0.85	0.56%
Mn 257.610†	76631.0	2.211	mg/L	0.0071	4.422 mg/L	0.0142	0.32%
Mo 202.031†	51.2	0.00480	mg/L	0.000436	0.00960 mg/L	0.000872	9.09%
Na 589.592†	308521.7	54.37	mg/L	0.101	108.7 mg/L	0.20	0.19%
Na 330.237†	1156.6	56.37	mg/L	0.638	112.7 mg/L	1.28	1.13%
Ni 231.604†	696.5	0.4537	mg/L	0.00285	0.9074 mg/L	0.00571	0.63%
Pb 220.353†	1117.2	0.1865	mg/L	0.00036	0.3729 mg/L	0.00073	0.20%
Sb 206.836†	123.9	-0.00284	mg/L	0.002348	-0.00568 mg/L	0.004696	82.72%
Se 196.026†	-83.3	-0.02115	mg/L	0.010067	-0.04230 mg/L	0.020134	47.60%
Si 288.158†	8852.5	7.966	mg/L	0.0933	15.93 mg/L	0.187	1.17%
Sn 189.927†	7.9	0.00811	mg/L	0.001201	0.01622 mg/L	0.002401	14.81%
Sr 421.552†	136876.2	0.3184	mg/L	0.00078	0.6368 mg/L	0.00157	0.25%
Ti 334.903†	73290.6	4.225	mg/L	0.0097	8.450 mg/L	0.0194	0.23%
Tl 190.801†	-22.0	-0.02435	mg/L	0.002518	-0.04870 mg/L	0.005036	10.34%
V 292.402†	40860.6	0.3730	mg/L	0.00118	0.7460 mg/L	0.00236	0.32%
Zn 206.200†	1229.3	0.6270	mg/L	0.00781	1.254 mg/L	0.0156	1.25%

Sequence No.: 26
Sample ID: RH51 D SWC

Autosampler Location: 40
Date Collected: 8/9/2010 2:45:40 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RH51 D SWC

Analyte Back Pressure Flow
All 164.0 kPa 0.55 L/min

Mean Data: RH51 D SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2283212.1	105.9 %	0.68			0.64%
ScR 361.383	269968.2	113.3 %	0.61			0.53%
Ag 328.068†	-630.8	0.00370 mg/L	0.000413	0.00741 mg/L	0.000826	11.15%
Al 308.215†	195569.7	160.7 mg/L	0.34	321.3 mg/L	0.68	0.21%
As 188.979†	77.4	0.06075 mg/L	0.001284	0.1215 mg/L	0.00257	2.11%
B 249.677†	336.5	0.1796 mg/L	0.00439	0.3591 mg/L	0.00878	2.44%
Ba 233.527†	2893.7	0.4034 mg/L	0.00286	0.8068 mg/L	0.00573	0.71%
Be 313.042†	872.7	0.00249 mg/L	0.000026	0.00498 mg/L	0.000051	1.03%
Ca 317.933†	330445.7	43.24 mg/L	0.069	86.48 mg/L	0.139	0.16%
Cd 228.802†	128.1	0.00258 mg/L	0.000111	0.00516 mg/L	0.000222	4.29%
Co 228.616†	3877.7	0.07499 mg/L	0.000514	0.1500 mg/L	0.00103	0.69%
Cr 267.716†	1723.5	0.5211 mg/L	0.00248	1.042 mg/L	0.0050	0.48%
Cu 324.752†	48225.6	0.2750 mg/L	0.00273	0.5500 mg/L	0.00547	0.99%
Fe 273.955†	210466.4	205.6 mg/L	1.38	411.3 mg/L	2.76	0.67%
K 766.490†	53930.7	24.20 mg/L	0.089	48.41 mg/L	0.178	0.37%
Mg 279.077†	71233.1	75.25 mg/L	0.178	150.5 mg/L	0.36	0.24%
Mn 257.610†	75244.7	2.171 mg/L	0.0038	4.342 mg/L	0.0076	0.17%
Mo 202.031†	53.5	0.00501 mg/L	0.000030	0.01003 mg/L	0.000060	0.60%
Na 589.592†	315828.2	55.65 mg/L	0.058	111.3 mg/L	0.12	0.10%
Na 330.237†	1187.2	57.88 mg/L	0.339	115.8 mg/L	0.68	0.59%
Ni 231.604†	696.2	0.4535 mg/L	0.00496	0.9069 mg/L	0.00992	1.09%
Pb 220.353†	1048.4	0.1793 mg/L	0.00180	0.3587 mg/L	0.00360	1.00%
Sb 206.836†	125.4	-0.00347 mg/L	0.001532	-0.00694 mg/L	0.003064	44.13%
Se 196.026†	-72.9	-0.00911 mg/L	0.004073	-0.01821 mg/L	0.008147	44.73%
Si 288.158†	6831.3	6.150 mg/L	0.0225	12.30 mg/L	0.045	0.37%
Sn 189.927†	5.9	0.00784 mg/L	0.000825	0.01568 mg/L	0.001650	10.52%
Sr 421.552†	146984.5	0.3419 mg/L	0.00104	0.6839 mg/L	0.00208	0.30%
Ti 334.903†	78141.0	4.505 mg/L	0.0087	9.009 mg/L	0.0174	0.19%
Tl 190.801†	-20.2	-0.02387 mg/L	0.004091	-0.04773 mg/L	0.008182	17.14%
V 292.402†	42024.2	0.3843 mg/L	0.00473	0.7686 mg/L	0.00946	1.23%
Zn 206.200†	1219.0	0.6219 mg/L	0.00426	1.244 mg/L	0.0085	0.69%

Sequence No.: 27

Sample ID: RH51 DSPK SWC

Autosampler Location: 41

Date Collected: 8/9/2010 2:51:43 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RH51 DSPK SWC

Analyte	Back Pressure	Flow
All	165.0 kPa	0.55 L/min

Mean Data: RH51 DSPK SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2230128.8	103.5 %	1.57			1.52%
ScR 361.383	263473.6	110.6 %	1.00			0.90%
Ag 328.068†	84832.5	0.5009 mg/L	0.00357	1.002 mg/L	0.0071	0.71%
Al 308.215†	211332.6	173.6 mg/L	1.24	347.2 mg/L	2.48	0.71%
As 188.979†	3043.7	2.061 mg/L	0.0231	4.121 mg/L	0.0462	1.12%
B 249.677†	364.6	0.1931 mg/L	0.00085	0.3862 mg/L	0.00171	0.44%
Ba 233.527†	16871.7	2.399 mg/L	0.0212	4.799 mg/L	0.0424	0.88%
Be 313.042†	125880.8	0.5178 mg/L	0.00258	1.036 mg/L	0.0052	0.50%
Ca 317.933†	388699.0	50.86 mg/L	0.254	101.7 mg/L	0.51	0.50%
Cd 228.802†	25140.8	0.4973 mg/L	0.00196	0.9946 mg/L	0.00392	0.39%
Co 228.616†	25287.8	0.5318 mg/L	0.00614	1.064 mg/L	0.0123	1.15%
Cr 267.716†	3406.4	1.029 mg/L	0.0063	2.057 mg/L	0.0125	0.61%
Cu 324.752†	144857.6	0.7921 mg/L	0.00377	1.584 mg/L	0.0075	0.48%
Fe 273.955†	215987.2	211.0 mg/L	1.85	422.1 mg/L	3.70	0.88%
K 766.490†	77704.6	34.87 mg/L	0.382	69.75 mg/L	0.764	1.10%
Mg 279.077†	82496.6	87.16 mg/L	0.490	174.3 mg/L	0.98	0.56%
Mn 257.610†	93729.6	2.705 mg/L	0.0186	5.410 mg/L	0.0373	0.69%
Mo 202.031†	56.1	0.00519 mg/L	0.000477	0.01037 mg/L	0.000954	9.20%
Na 589.592†	371101.3	65.39 mg/L	0.550	130.8 mg/L	1.10	0.84%
Na 330.237†	1398.3	67.97 mg/L	0.089	135.9 mg/L	0.18	0.13%
Ni 231.604†	1433.8	0.9331 mg/L	0.00481	1.866 mg/L	0.0096	0.52%
Pb 220.353†	14334.4	2.043 mg/L	0.0217	4.087 mg/L	0.0434	1.06%
Sb 206.836†	146.3	-0.00211 mg/L	0.001911	-0.00422 mg/L	0.003823	90.60%
Se 196.026†	1881.0	1.966 mg/L	0.0286	3.933 mg/L	0.0573	1.46%
Si 288.158†	6604.0	5.947 mg/L	0.0620	11.89 mg/L	0.124	1.04%
Sn 189.927†	7.6	0.00923 mg/L	0.000753	0.01845 mg/L	0.001507	8.17%
Sr 421.552†	365808.4	0.8510 mg/L	0.00710	1.702 mg/L	0.0142	0.83%
Ti 334.903†	84462.0	4.869 mg/L	0.0344	9.737 mg/L	0.0688	0.71%
Tl 190.801†	3493.3	1.826 mg/L	0.0204	3.653 mg/L	0.0409	1.12%
V 292.402†	94289.7	0.8949 mg/L	0.00650	1.790 mg/L	0.0130	0.73%
Zn 206.200†	2188.6	1.115 mg/L	0.0060	2.230 mg/L	0.0121	0.54%

Sequence No.: 28

Sample ID: RH51 DPOST SWC

Autosampler Location: 42

Date Collected: 8/9/2010 2:57:33 PM

Data Type: Original

Dilution: 2X

222222
8.9

Nebulizer Parameters: RH51 DPOST SWC

Analyte Back Pressure Flow
All 165.0 kPa 0.55 L/min

Mean Data: RH51 DPOST SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2257506.3	104.8 %	0.88			0.84%
ScR 361.383	268531.0	112.7 %	0.36			0.32%
Ag 328.068†	81424.4	0.4810 mg/L	0.00272	0.9619 mg/L	0.00545	0.57%
Al 308.215†	198659.5	163.2 mg/L	0.09	326.4 mg/L	0.18	0.06%
As 188.979†	3064.5	2.074 mg/L	0.0160	4.148 mg/L	0.0319	0.77%
B 249.677†	347.2	0.1838 mg/L	0.00080	0.3676 mg/L	0.00159	0.43%
Ba 233.527†	16328.0	2.322 mg/L	0.0090	4.644 mg/L	0.0179	0.39%
Be 313.042†	122025.6	0.5020 mg/L	0.00061	1.004 mg/L	0.0012	0.12%
Ca 317.933†	407863.5	53.37 mg/L	0.047	106.7 mg/L	0.09	0.09%
Cd 228.802†	24477.2	0.4840 mg/L	0.00192	0.9681 mg/L	0.00384	0.40%
Co 228.616†	25083.2	0.5280 mg/L	0.00427	1.056 mg/L	0.0085	0.81%
Cr 267.716†	3348.5	1.011 mg/L	0.0018	2.022 mg/L	0.0037	0.18%
Cu 324.752†	143635.4	0.7855 mg/L	0.00219	1.571 mg/L	0.0044	0.28%
Fe 273.955†	213891.6	209.0 mg/L	1.24	418.0 mg/L	2.47	0.59%
K 766.490†	75708.8	33.98 mg/L	0.062	67.96 mg/L	0.123	0.18%
Mg 279.077†	80812.4	85.38 mg/L	0.043	170.8 mg/L	0.09	0.05%
Mn 257.610†	92240.5	2.662 mg/L	0.0029	5.324 mg/L	0.0057	0.11%
Mo 202.031†	63.6	0.00590 mg/L	0.000436	0.01180 mg/L	0.000871	7.38%
Na 589.592†	366152.8	64.52 mg/L	0.227	129.0 mg/L	0.45	0.35%
Na 330.237†	1382.8	67.13 mg/L	0.144	134.3 mg/L	0.29	0.21%
Ni 231.604†	1414.1	0.9202 mg/L	0.00367	1.840 mg/L	0.0073	0.40%
Pb 220.353†	13894.2	1.979 mg/L	0.0147	3.958 mg/L	0.0294	0.74%
Sb 206.836†	135.2	-0.00558 mg/L	0.001241	-0.01116 mg/L	0.002481	22.23%
Se 196.026†	1885.2	1.968 mg/L	0.0113	3.937 mg/L	0.0225	0.57%
Si 288.158†	6958.4	6.266 mg/L	0.0247	12.53 mg/L	0.049	0.39%
Sn 189.927†	6.2	0.00878 mg/L	0.000861	0.01755 mg/L	0.001722	9.81%
Sr 421.552†	361279.9	0.8405 mg/L	0.00117	1.681 mg/L	0.0023	0.14%
Ti 334.903†	78501.7	4.525 mg/L	0.0025	9.050 mg/L	0.0050	0.06%
Tl 190.801†	3386.6	1.771 mg/L	0.0106	3.542 mg/L	0.0212	0.60%
V 292.402†	92374.4	0.8767 mg/L	0.00099	1.753 mg/L	0.0020	0.11%
Zn 206.200†	2152.4	1.096 mg/L	0.0052	2.193 mg/L	0.0104	0.47%

Sequence No.: 29
 Sample ID: RH51 MB1SPK SWC

Autosampler Location: 43
 Date Collected: 8/9/2010 3:03:24 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RH51 MB1SPK SWC

Analyte Back Pressure Flow
 All 165.0 kPa 0.55 L/min

Mean Data: RH51 MB1SPK SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2346322.2	108.9	%	0.62			0.57%
ScR 361.383	273202.3	114.7	%	0.64			0.56%
Ag 328.068†	81764.7	0.4755	mg/L	0.00494	0.9510 mg/L	0.00987	1.04%
Al 308.215†	2415.8	1.977	mg/L	0.0194	3.955 mg/L	0.0388	0.98%
As 188.979†	2946.5	1.986	mg/L	0.0125	3.972 mg/L	0.0249	0.63%
B 249.677†	-5.9	-0.00469	mg/L	0.001225	-0.00938 mg/L	0.002450	26.12%
Ba 233.527†	13455.2	1.922	mg/L	0.0102	3.843 mg/L	0.0205	0.53%
Be 313.042†	122486.4	0.5050	mg/L	0.00081	1.010 mg/L	0.0016	0.16%
Ca 317.933†	77374.7	10.13	mg/L	0.012	20.25 mg/L	0.023	0.11%
Cd 228.802†	24590.4	0.4863	mg/L	0.00484	0.9726 mg/L	0.00968	1.00%
Co 228.616†	22239.6	0.4752	mg/L	0.00585	0.9504 mg/L	0.01171	1.23%
Cr 267.716†	1618.9	0.4880	mg/L	0.00358	0.9760 mg/L	0.00716	0.73%
Cu 324.752†	90573.1	0.4845	mg/L	0.00452	0.9690 mg/L	0.00904	0.93%
Fe 273.955†	2084.9	2.037	mg/L	0.0175	4.073 mg/L	0.0351	0.86%
K 766.490†	21767.3	9.769	mg/L	0.0067	19.54 mg/L	0.013	0.07%
Mg 279.077†	9518.9	10.07	mg/L	0.057	20.14 mg/L	0.114	0.57%
Mn 257.610†	16997.0	0.4912	mg/L	0.00085	0.9823 mg/L	0.00170	0.17%
Mo 202.031†	6.9	0.00058	mg/L	0.000046	0.00116 mg/L	0.000093	7.99%
Na 589.592†	54260.3	9.561	mg/L	0.0184	19.12 mg/L	0.037	0.19%
Na 330.237†	224.0	10.61	mg/L	0.395	21.23 mg/L	0.790	3.72%
Ni 231.604†	742.5	0.4827	mg/L	0.00151	0.9655 mg/L	0.00301	0.31%
Pb 220.353†	13848.3	1.940	mg/L	0.0152	3.880 mg/L	0.0305	0.79%
Sb 206.836†	2.5	-0.00572	mg/L	0.002193	-0.01144 mg/L	0.004387	38.33%
Se 196.026†	1972.1	1.991	mg/L	0.0120	3.982 mg/L	0.0241	0.60%
Si 288.158†	5.8	0.00704	mg/L	0.002951	0.01408 mg/L	0.005902	41.92%
Sn 189.927†	-9.5	-0.00190	mg/L	0.001092	-0.00381 mg/L	0.002185	57.39%
Sr 421.552†	213007.2	0.4955	mg/L	0.00009	0.9911 mg/L	0.00017	0.02%
Ti 334.903†	17.8	0.00051	mg/L	0.000211	0.00103 mg/L	0.000422	41.11%
Tl 190.801†	3691.5	1.945	mg/L	0.0170	3.890 mg/L	0.0341	0.88%
V 292.402†	50779.3	0.4967	mg/L	0.00216	0.9933 mg/L	0.00433	0.44%
Zn 206.200†	946.8	0.4814	mg/L	0.00459	0.9628 mg/L	0.00919	0.95%

Sequence No.: 30

Sample ID: CV

3

Autosampler Location: 7

Date Collected: 8/9/2010 3:09:25 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	165.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	2294371.3		106.5 %	1.96				1.84%
ScR 361.383	276378.4		116.0 %	0.86				0.74%
Ag 328.068†	159526.9		0.9277 mg/L	0.01991	0.9277 mg/L	0.01991		2.15%
Al 308.215†	2381.6		1.919 mg/L	0.0008	1.919 mg/L	0.0008		0.04%
As 188.979†	2902.8		1.956 mg/L	0.0371	1.956 mg/L	0.0371		1.90%
B 249.677†	1732.0		0.9247 mg/L	0.00366	0.9247 mg/L	0.00366		0.40%
Ba 233.527†	6628.8		0.9463 mg/L	0.00305	0.9463 mg/L	0.00305		0.32%
Be 313.042†	235400.0		0.9705 mg/L	0.00158	0.9705 mg/L	0.00158		0.16%
Ca 317.933†	15384.8		2.013 mg/L	0.0066	2.013 mg/L	0.0066		0.33%
Cd 228.802†	49452.1		0.9817 mg/L	0.02343	0.9817 mg/L	0.02343		2.39%
Co 228.616†	44399.4		0.9481 mg/L	0.02347	0.9481 mg/L	0.02347		2.48%
Cr 267.716†	3177.3		0.9584 mg/L	0.00142	0.9584 mg/L	0.00142		0.15%
Cu 324.752†	190488.0		1.018 mg/L	0.0249	1.018 mg/L	0.0249		2.45%
Fe 273.955†	1972.2		1.926 mg/L	0.0057	1.926 mg/L	0.0057		0.30%
K 766.490†	41865.1		18.79 mg/L	0.070	18.79 mg/L	0.070		0.37%
Mg 279.077†	1840.9		1.951 mg/L	0.0069	1.951 mg/L	0.0069		0.35%
Mn 257.610†	32827.2		0.9481 mg/L	0.00412	0.9481 mg/L	0.00412		0.43%
Mo 202.031†	9994.6		0.9531 mg/L	0.01759	0.9531 mg/L	0.01759		1.85%
Na 589.592†	259178.3		45.67 mg/L	0.118	45.67 mg/L	0.118		0.26%
Na 330.237†	995.1		48.01 mg/L	0.256	48.01 mg/L	0.256		0.53%
Ni 231.604†	1474.0		0.9607 mg/L	0.00168	0.9607 mg/L	0.00168		0.17%
Pb 220.353†	13699.6		1.919 mg/L	0.0488	1.919 mg/L	0.0488		2.54%
Sb 206.836†	3894.3		2.091 mg/L	0.0368	2.091 mg/L	0.0368		1.76%
Se 196.026†	1929.7		1.947 mg/L	0.0344	1.947 mg/L	0.0344		1.77%
Si 288.158†	2283.1		2.055 mg/L	0.0057	2.055 mg/L	0.0057		0.28%
Sn 189.927†	3142.3		0.9013 mg/L	0.01619	0.9013 mg/L	0.01619		1.80%
Sr 421.552†	414744.6		0.9648 mg/L	0.00268	0.9648 mg/L	0.00268		0.28%
Ti 334.903†	16567.5		0.9542 mg/L	0.00196	0.9542 mg/L	0.00196		0.21%
Tl 190.801†	3641.2		1.912 mg/L	0.0311	1.912 mg/L	0.0311		1.63%
V 292.402†	97432.5		0.9585 mg/L	0.02707	0.9585 mg/L	0.02707		2.82%
Zn 206.200†	1914.5		0.9721 mg/L	0.00486	0.9721 mg/L	0.00486		0.50%

Sequence No.: 31

Sample ID: CB

3

Autosampler Location: 1

Date Collected: 8/9/2010 3:15:26 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 165.0 kPa 0.55 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2366198.8	109.8 %	0.19			0.17%
ScR 361.383	271084.3	113.8 %	0.64			0.56%
Ag 328.068†	67.0	0.00039 mg/L	0.000157	0.00039 mg/L	0.000157	40.24%
Al 308.215†	24.5	0.02012 mg/L	0.016770	0.02012 mg/L	0.016770	83.34%
As 188.979†	4.1	0.00279 mg/L	0.002097	0.00279 mg/L	0.002097	75.25%
B 249.677†	3.8	0.00201 mg/L	0.001207	0.00201 mg/L	0.001207	60.18%
Ba 233.527†	-0.1	-0.00001 mg/L	0.000450	-0.00001 mg/L	0.000450	>999.9%
Be 313.042†	-6.6	-0.00003 mg/L	0.000047	-0.00003 mg/L	0.000047	174.06%
Ca 317.933†	9.1	0.00119 mg/L	0.002227	0.00119 mg/L	0.002227	186.57%
Cd 228.802†	-1.0	-0.00002 mg/L	0.000076	-0.00002 mg/L	0.000076	326.42%
Co 228.616†	-0.3	-0.00001 mg/L	0.000077	-0.00001 mg/L	0.000077	920.21%
Cr 267.716†	-1.7	-0.00051 mg/L	0.001960	-0.00051 mg/L	0.001960	384.62%
Cu 324.752†	-150.8	-0.00081 mg/L	0.000160	-0.00081 mg/L	0.000160	19.81%
Fe 273.955†	5.4	0.00530 mg/L	0.001641	0.00530 mg/L	0.001641	30.95%
K 766.490†	-87.2	-0.03913 mg/L	0.005832	-0.03913 mg/L	0.005832	14.90%
Mg 279.077†	1.5	0.00153 mg/L	0.003317	0.00153 mg/L	0.003317	216.15%
Mn 257.610†	-1.9	-0.00005 mg/L	0.000052	-0.00005 mg/L	0.000052	95.83%
Mo 202.031†	-1.7	-0.00017 mg/L	0.000068	-0.00017 mg/L	0.000068	41.23%
Na 589.592†	246.0	0.04334 mg/L	0.013729	0.04334 mg/L	0.013729	31.68%
Na 330.237†	20.4	0.9874 mg/L	0.25537	0.9874 mg/L	0.25537	25.86%
Ni 231.604†	2.8	0.00184 mg/L	0.000650	0.00184 mg/L	0.000650	35.33%
Pb 220.353†	-0.1	-0.00001 mg/L	0.001524	-0.00001 mg/L	0.001524	>999.9%
Sb 206.836†	-9.5	-0.00512 mg/L	0.001227	-0.00512 mg/L	0.001227	23.98%
Se 196.026†	7.7	0.00782 mg/L	0.003572	0.00782 mg/L	0.003572	45.71%
Si 288.158†	7.2	0.00648 mg/L	0.001151	0.00648 mg/L	0.001151	17.77%
Sn 189.927†	-2.0	-0.00058 mg/L	0.000423	-0.00058 mg/L	0.000423	73.46%
Sr 421.552†	-21.7	-0.00005 mg/L	0.000032	-0.00005 mg/L	0.000032	62.48%
Ti 334.903†	12.1	0.00070 mg/L	0.001212	0.00070 mg/L	0.001212	174.24%
Tl 190.801†	4.5	0.00237 mg/L	0.001376	0.00237 mg/L	0.001376	58.00%
V 292.402†	-21.6	-0.00022 mg/L	0.000194	-0.00022 mg/L	0.000194	89.92%
Zn 206.200†	1.9	0.00098 mg/L	0.001335	0.00098 mg/L	0.001335	136.04%

Sequence No.: 32
Sample ID: RG47 MB SWC

Autosampler Location: 44
Date Collected: 8/9/2010 3:21:24 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG47 MB SWC

Analyte Back Pressure Flow
All 165.0 kPa 0.55 L/min

Mean Data: RG47 MB SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2338075.0	108.5 %	3.36			3.10%
ScR 361.383	273057.9	114.6 %	1.02			0.89%
Ag 328.068†	2.9	0.00002 mg/L	0.000077	0.00003 mg/L	0.000153	445.27%
Al 308.215†	34.7	0.02855 mg/L	0.009254	0.05710 mg/L	0.018507	32.41%
As 188.979†	0.6	0.00038 mg/L	0.004078	0.00075 mg/L	0.008157	>999.9%
B 249.677†	-1.2	-0.00064 mg/L	0.003100	-0.00127 mg/L	0.006201	486.40%
Ba 233.527†	-2.1	-0.00030 mg/L	0.000108	-0.00060 mg/L	0.000217	36.01%
Be 313.042†	-28.4	-0.00012 mg/L	0.000045	-0.00023 mg/L	0.000090	38.18%
Ca 317.933†	202.9	0.02655 mg/L	0.001134	0.05311 mg/L	0.002268	4.27%
Cd 228.802†	-2.1	-0.00004 mg/L	0.000119	-0.00008 mg/L	0.000238	281.56%
Co 228.616†	-2.0	-0.00004 mg/L	0.000108	-0.00009 mg/L	0.000217	247.64%
Cr 267.716†	3.1	0.00094 mg/L	0.001524	0.00189 mg/L	0.003049	161.67%
Cu 324.752†	-311.9	-0.00167 mg/L	0.000229	-0.00333 mg/L	0.000458	13.73%
Fe 273.955†	5.6	0.00551 mg/L	0.002726	0.01101 mg/L	0.005452	49.50%
K 766.490†	-204.2	-0.09164 mg/L	0.010852	-0.1833 mg/L	0.02170	11.84%
Mg 279.077†	5.5	0.00581 mg/L	0.002918	0.01162 mg/L	0.005836	50.23%
Mn 257.610†	-5.0	-0.00014 mg/L	0.000065	-0.00029 mg/L	0.000131	45.22%
Mo 202.031†	-4.9	-0.00047 mg/L	0.000307	-0.00093 mg/L	0.000614	65.96%
Na 589.592†	55.1	0.00970 mg/L	0.006675	0.01941 mg/L	0.013349	68.79%
Na 330.237†	24.9	1.206 mg/L	0.6393	2.412 mg/L	1.2787	53.02%
Ni 231.604†	2.8	0.00182 mg/L	0.002514	0.00363 mg/L	0.005028	138.47%
Pb 220.353†	2.0	0.00029 mg/L	0.000689	0.00057 mg/L	0.001379	240.04%
Sb 206.836†	-8.7	-0.00469 mg/L	0.004422	-0.00938 mg/L	0.008845	94.27%
Se 196.026†	2.2	0.00222 mg/L	0.001755	0.00444 mg/L	0.003510	79.13%
Si 288.158†	4.2	0.00381 mg/L	0.001957	0.00762 mg/L	0.003914	51.39%
Sn 189.927†	-5.6	-0.00159 mg/L	0.000889	-0.00318 mg/L	0.001777	55.81%
Sr 421.552†	-35.8	-0.00008 mg/L	0.000078	-0.00017 mg/L	0.000156	93.61%
Ti 334.903†	17.3	0.00100 mg/L	0.000373	0.00200 mg/L	0.000747	37.35%
Tl 190.801†	4.4	0.00233 mg/L	0.000850	0.00467 mg/L	0.001700	36.43%
V 292.402†	6.1	0.00006 mg/L	0.000131	0.00012 mg/L	0.000263	216.52%
Zn 206.200†	1.1	0.00056 mg/L	0.000944	0.00112 mg/L	0.001889	168.61%

Sequence No.: 33
 Sample ID: RG42 MB SWC

Autosampler Location: 45
 Date Collected: 8/9/2010 3:27:24 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG42 MB SWC

Analyte Back Pressure Flow
 All 165.0 kPa 0.55 L/min

Mean Data: RG42 MB SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Sample Units	Std.Dev.	RSD
ScA 357.253	2350884.1	109.1	%	1.81			1.65%
ScR 361.383	274811.7	115.3	%	0.76			0.66%
Ag 328.068†	25.1	0.00015	mg/L	0.000178	0.00029 mg/L	0.000357	122.08%
Al 308.215†	15.0	0.01232	mg/L	0.014999	0.02464 mg/L	0.029999	121.77%
As 188.979†	5.4	0.00361	mg/L	0.001843	0.00722 mg/L	0.003685	51.01%
B 249.677†	-2.1	-0.00113	mg/L	0.002185	-0.00226 mg/L	0.004369	193.73%
Ba 233.527†	15.9	0.00228	mg/L	0.000482	0.00455 mg/L	0.000965	21.18%
Be 313.042†	-37.1	-0.00015	mg/L	0.000029	-0.00031 mg/L	0.000059	19.19%
Ca 317.933†	68.9	0.00902	mg/L	0.002228	0.01804 mg/L	0.004456	24.70%
Cd 228.802†	-3.5	-0.00008	mg/L	0.000214	-0.00015 mg/L	0.000428	277.51%
Co 228.616†	1.0	0.00002	mg/L	0.000094	0.00004 mg/L	0.000188	462.61%
Cr 267.716†	-4.0	-0.00119	mg/L	0.002069	-0.00239 mg/L	0.004139	173.39%
Cu 324.752†	-388.9	-0.00208	mg/L	0.000132	-0.00416 mg/L	0.000265	6.37%
Fe 273.955†	3.5	0.00345	mg/L	0.001199	0.00691 mg/L	0.002398	34.72%
K 766.490†	-178.8	-0.08026	mg/L	0.035545	-0.1605 mg/L	0.07109	44.29%
Mg 279.077†	-4.3	-0.00460	mg/L	0.005385	-0.00919 mg/L	0.010771	117.18%
Mn 257.610†	1.4	0.00004	mg/L	0.000131	0.00008 mg/L	0.000262	324.31%
Mo 202.031†	-3.2	-0.00031	mg/L	0.000152	-0.00061 mg/L	0.000303	49.40%
Na 589.592†	5.9	0.00105	mg/L	0.003379	0.00210 mg/L	0.006758	322.41%
Na 330.237†	9.3	0.4513	mg/L	0.75165	0.9026 mg/L	1.50331	166.56%
Ni 231.604†	-0.5	-0.00031	mg/L	0.001193	-0.00063 mg/L	0.002385	380.00%
Pb 220.353†	-0.0	0.00000	mg/L	0.000654	-0.00001 mg/L	0.001307	>999.9%
Sb 206.836†	-8.1	-0.00435	mg/L	0.001574	-0.00870 mg/L	0.003148	36.20%
Se 196.026†	5.6	0.00564	mg/L	0.003746	0.01128 mg/L	0.007491	66.40%
Si 288.158†	6.1	0.00548	mg/L	0.007087	0.01095 mg/L	0.014175	129.44%
Sn 189.927†	-0.7	-0.00019	mg/L	0.001480	-0.00037 mg/L	0.002961	791.38%
Sr 421.552†	-41.3	-0.00010	mg/L	0.000025	-0.00019 mg/L	0.000050	26.02%
Ti 334.903†	-7.2	-0.00041	mg/L	0.000751	-0.00083 mg/L	0.001503	181.07%
Tl 190.801†	3.1	0.00166	mg/L	0.002415	0.00332 mg/L	0.004831	145.53%
V 292.402†	-2.1	-0.00003	mg/L	0.000095	-0.00006 mg/L	0.000189	318.36%
Zn 206.200†	0.1	0.00004	mg/L	0.001386	0.00007 mg/L	0.002772	>999.9%

Sequence No.: 34
Sample ID: RG24 MB WMN

Autosampler Location: 46
Date Collected: 8/9/2010 3:33:24 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG24 MB WMN

Analyte	Back Pressure	Flow
All	165.0 kPa	0.55 L/min

Mean Data: RG24 MB WMN

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2411701.8	111.9 %	%	0.22			0.20%
ScR 361.383	275438.9	115.6 %	%	1.10			0.95%
Ag 328.068†	-16.3	-0.00010 mg/L	mg/L	0.000229	-0.00010 mg/L	0.000229	240.58%
Al 308.215†	19.9	0.01639 mg/L	mg/L	0.011547	0.01639 mg/L	0.011547	70.44%
As 188.979†	0.8	0.00057 mg/L	mg/L	0.000685	0.00057 mg/L	0.000685	119.88%
B 249.677†	-8.1	-0.00435 mg/L	mg/L	0.001185	-0.00435 mg/L	0.001185	27.23%
Ba 233.527†	3.2	0.00046 mg/L	mg/L	0.000450	0.00046 mg/L	0.000450	98.63%
Be 313.042†	-16.4	-0.00007 mg/L	mg/L	0.000104	-0.00007 mg/L	0.000104	154.93%
Ca 317.933†	34.7	0.00454 mg/L	mg/L	0.003267	0.00454 mg/L	0.003267	72.00%
Cd 228.802†	-4.4	-0.00009 mg/L	mg/L	0.000044	-0.00009 mg/L	0.000044	49.81%
Co 228.616†	3.6	0.00008 mg/L	mg/L	0.000060	0.00008 mg/L	0.000060	77.78%
Cr 267.716†	-2.1	-0.00064 mg/L	mg/L	0.000986	-0.00064 mg/L	0.000986	153.44%
Cu 324.752†	-804.9	-0.00430 mg/L	mg/L	0.000017	-0.00430 mg/L	0.000017	0.38%
Fe 273.955†	-9.0	-0.00884 mg/L	mg/L	0.002035	-0.00884 mg/L	0.002035	23.03%
K 766.490†	-238.6	-0.1071 mg/L	mg/L	0.03572	-0.1071 mg/L	0.03572	33.35%
Mg 279.077†	-1.9	-0.00197 mg/L	mg/L	0.003217	-0.00197 mg/L	0.003217	163.68%
Mn 257.610†	-19.2	-0.00055 mg/L	mg/L	0.000120	-0.00055 mg/L	0.000120	21.57%
Mo 202.031†	-8.7	-0.00083 mg/L	mg/L	0.000187	-0.00083 mg/L	0.000187	22.64%
Na 589.592†	-131.6	-0.02319 mg/L	mg/L	0.010440	-0.02319 mg/L	0.010440	45.01%
Na 330.237†	15.8	0.7627 mg/L	mg/L	0.35931	0.7627 mg/L	0.35931	47.11%
Ni 231.604†	4.4	0.00284 mg/L	mg/L	0.001258	0.00284 mg/L	0.001258	44.32%
Pb 220.353†	-12.5	-0.00175 mg/L	mg/L	0.000709	-0.00175 mg/L	0.000709	40.57%
Sb 206.836†	-15.7	-0.00846 mg/L	mg/L	0.000608	-0.00846 mg/L	0.000608	7.19%
Se 196.026†	4.1	0.00412 mg/L	mg/L	0.004444	0.00412 mg/L	0.004444	107.85%
Si 288.158†	-3.3	-0.00298 mg/L	mg/L	0.004207	-0.00298 mg/L	0.004207	141.00%
Sn 189.927†	-3.5	-0.00100 mg/L	mg/L	0.000618	-0.00100 mg/L	0.000618	62.08%
Sr 421.552†	-32.3	-0.00008 mg/L	mg/L	0.000088	-0.00008 mg/L	0.000088	116.60%
Ti 334.903†	-4.3	-0.00025 mg/L	mg/L	0.001299	-0.00025 mg/L	0.001299	528.72%
Tl 190.801†	1.7	0.00087 mg/L	mg/L	0.000483	0.00087 mg/L	0.000483	55.23%
V 292.402†	-24.5	-0.00025 mg/L	mg/L	0.000201	-0.00025 mg/L	0.000201	81.51%
Zn 206.200†	0.6	0.00028 mg/L	mg/L	0.000876	0.00028 mg/L	0.000876	307.78%

Sequence No.: 35
 Sample ID: RG24 D WMN

Autosampler Location: 47
 Date Collected: 8/9/2010 3:39:24 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG24 D WMN

Analyte	Back Pressure	Flow
All	165.0 kPa	0.55 L/min

Mean Data: RG24 D WMN

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2395252.7	111.1	%	0.44			0.40%
ScR 361.383	283451.2	119.0	%	1.01			0.85%
Ag 328.068†	-6.6	-0.00007	mg/L	0.000129	-0.00007	0.000129	196.50%
Al 308.215†	46.5	0.03819	mg/L	0.007278	0.03819	0.007278	19.06%
As 188.979†	0.9	0.00058	mg/L	0.000496	0.00058	0.000496	85.43%
B 249.677†	83.6	0.04469	mg/L	0.000825	0.04469	0.000825	1.85%
Ba 233.527†	14.9	0.00212	mg/L	0.000095	0.00212	0.000095	4.48%
Be 313.042†	-40.3	-0.00017	mg/L	0.000054	-0.00017	0.000054	31.74%
Ca 317.933†	27012.7	3.535	mg/L	0.0742	3.535	0.0742	2.10%
Cd 228.802†	-2.6	-0.00005	mg/L	0.000053	-0.00005	0.000053	102.99%
Co 228.616†	40.5	0.00086	mg/L	0.000204	0.00086	0.000204	23.62%
Cr 267.716†	0.7	0.00009	mg/L	0.001245	0.00009	0.001245	>999.9%
Cu 324.752†	-581.7	-0.00310	mg/L	0.000186	-0.00310	0.000186	6.00%
Fe 273.955†	59.9	0.05854	mg/L	0.001838	0.05854	0.001838	3.14%
K 766.490†	3048.5	1.368	mg/L	0.0209	1.368	0.0209	1.52%
Mg 279.077†	1679.8	1.777	mg/L	0.0293	1.777	0.0293	1.65%
Mn 257.610†	356.3	0.01028	mg/L	0.000146	0.01028	0.000146	1.42%
Mo 202.031†	-1.3	-0.00012	mg/L	0.000415	-0.00012	0.000415	339.84%
Na 589.592†	268485.1	47.31	mg/L	0.228	47.31	0.228	0.48%
Na 330.237†	1040.7	50.31	mg/L	1.644	50.31	1.644	3.27%
Ni 231.604†	6.7	0.00439	mg/L	0.001572	0.00439	0.001572	35.82%
Pb 220.353†	-14.2	-0.00198	mg/L	0.000287	-0.00198	0.000287	14.50%
Sb 206.836†	-12.8	-0.00693	mg/L	0.001943	-0.00693	0.001943	28.03%
Se 196.026†	6.7	0.00673	mg/L	0.001250	0.00673	0.001250	18.57%
Si 288.158†	12654.2	11.37	mg/L	0.202	11.37	0.202	1.77%
Sn 189.927†	-5.4	-0.00131	mg/L	0.000844	-0.00131	0.000844	64.61%
Sr 421.552†	5239.9	0.01219	mg/L	0.000180	0.01219	0.000180	1.48%
Ti 334.903†	4.2	0.00010	mg/L	0.000553	0.00010	0.000553	537.30%
Tl 190.801†	-1.2	-0.00066	mg/L	0.001343	-0.00066	0.001343	203.48%
V 292.402†	109.6	0.00106	mg/L	0.000074	0.00106	0.000074	6.96%
Zn 206.200†	3.9	0.00212	mg/L	0.000170	0.00212	0.000170	8.01%

Sequence No.: 36
Sample ID: RG24 E WMN

Autosampler Location: 48
Date Collected: 8/9/2010 3:45:41 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG24 E WMN

Analyte	Back Pressure	Flow
All	165.0 kPa	0.55 L/min

Mean Data: RG24 E WMN

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2412916.1	112.0	%	0.69				0.62%
ScR 361.383	284113.3	119.2	%	0.31				0.26%
Ag 328.068†	8.9	-0.00003	mg/L	0.000104	-0.00003	mg/L	0.000104	391.25%
Al 308.215†	106.3	0.08731	mg/L	0.003805	0.08731	mg/L	0.003805	4.36%
As 188.979†	1.5	0.00100	mg/L	0.001218	0.00100	mg/L	0.001218	122.20%
B 249.677†	63.8	0.03411	mg/L	0.002619	0.03411	mg/L	0.002619	7.68%
Ba 233.527†	70.1	0.01002	mg/L	0.001179	0.01002	mg/L	0.001179	11.77%
Be 313.042†	-47.4	-0.00020	mg/L	0.000037	-0.00020	mg/L	0.000037	18.83%
Ca 317.933†	76030.5	9.949	mg/L	0.0317	9.949	mg/L	0.0317	0.32%
Cd 228.802†	-12.6	-0.00025	mg/L	0.000191	-0.00025	mg/L	0.000191	75.66%
Co 228.616†	94.8	0.00202	mg/L	0.000028	0.00202	mg/L	0.000028	1.38%
Cr 267.716†	-0.4	-0.00040	mg/L	0.001899	-0.00040	mg/L	0.001899	476.70%
Cu 324.752†	-508.8	-0.00271	mg/L	0.000107	-0.00271	mg/L	0.000107	3.95%
Fe 273.955†	54.1	0.05287	mg/L	0.002173	0.05287	mg/L	0.002173	4.11%
K 766.490†	1749.8	0.7853	mg/L	0.02688	0.7853	mg/L	0.02688	3.42%
Mg 279.077†	4073.4	4.310	mg/L	0.0464	4.310	mg/L	0.0464	1.08%
Mn 257.610†	244.2	0.00705	mg/L	0.000093	0.00705	mg/L	0.000093	1.33%
Mo 202.031†	-0.4	-0.00004	mg/L	0.000349	-0.00004	mg/L	0.000349	903.94%
Na 589.592†	172675.6	30.43	mg/L	0.091	30.43	mg/L	0.091	0.30%
Na 330.237†	684.3	33.03	mg/L	0.431	33.03	mg/L	0.431	1.30%
Ni 231.604†	4.6	0.00297	mg/L	0.002092	0.00297	mg/L	0.002092	70.56%
Pb 220.353†	-22.3	-0.00311	mg/L	0.000308	-0.00311	mg/L	0.000308	9.93%
Sb 206.836†	-15.8	-0.00855	mg/L	0.002736	-0.00855	mg/L	0.002736	32.01%
Se 196.026†	10.7	0.01084	mg/L	0.004726	0.01084	mg/L	0.004726	43.60%
Si 288.158†	12378.3	11.12	mg/L	0.144	11.12	mg/L	0.144	1.29%
Sn 189.927†	-4.9	-0.00076	mg/L	0.000347	-0.00076	mg/L	0.000347	45.65%
Sr 421.552†	24041.8	0.05593	mg/L	0.000031	0.05593	mg/L	0.000031	0.05%
Ti 334.903†	39.9	0.00191	mg/L	0.000978	0.00191	mg/L	0.000978	51.15%
Tl 190.801†	0.1	0.00003	mg/L	0.001391	0.00003	mg/L	0.001391	>999.9%
V 292.402†	69.2	0.00067	mg/L	0.000037	0.00067	mg/L	0.000037	5.56%
Zn 206.200†	4.4	0.00259	mg/L	0.000653	0.00259	mg/L	0.000653	25.26%

Sequence No.: 37
 Sample ID: RG24 F WMN

Autosampler Location: 49
 Date Collected: 8/9/2010 3:52:00 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG24 F WMN

Analyte Back Pressure Flow
 All 166.0 kPa 0.55 L/min

Mean Data: RG24 F WMN

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2296185.3	106.5	%	0.75			0.70%
ScR 361.383	275808.8	115.8	%	0.31			0.27%
Ag 328.068†	318.3	0.00014	mg/L	0.000164	0.00014 mg/L	0.000164	121.09%
Al 308.215†	40.6	0.03330	mg/L	0.002683	0.03330 mg/L	0.002683	8.06%
As 188.979†	-1.4	-0.00089	mg/L	0.000368	-0.00089 mg/L	0.000368	41.48%
B 249.677†	103.2	0.05512	mg/L	0.000676	0.05512 mg/L	0.000676	1.23%
Ba 233.527†	270.3	0.03834	mg/L	0.000770	0.03834 mg/L	0.000770	2.01%
Be 313.042†	-22.5	-0.00009	mg/L	0.000022	-0.00009 mg/L	0.000022	23.61%
Cd 317.933†	1006075.7	131.7	mg/L	0.57	131.7 mg/L	0.57	0.44%
Ca 228.802†	-11.5	-0.00021	mg/L	0.000046	-0.00021 mg/L	0.000046	21.69%
Co 228.616†	939.0	0.02006	mg/L	0.000042	0.02006 mg/L	0.000042	0.21%
Cr 267.716†	14.0	-0.00006	mg/L	0.001342	-0.00006 mg/L	0.001342	>999.9%
Cu 324.752†	-862.0	-0.00410	mg/L	0.000199	-0.00410 mg/L	0.000199	4.85%
Fe 273.955†	5814.5	5.681	mg/L	0.0148	5.681 mg/L	0.0148	0.26%
K 766.490†	6083.4	2.730	mg/L	0.0243	2.730 mg/L	0.0243	0.89%
Mg 279.077†	77070.5	81.54	mg/L	0.181	81.54 mg/L	0.181	0.22%
Mn 257.610†	175550.9	5.068	mg/L	0.0204	5.068 mg/L	0.0204	0.40%
Mo 202.031†	22.5	0.00214	mg/L	0.000601	0.00214 mg/L	0.000601	28.01%
Na 589.592†	351091.6	61.87	mg/L	0.175	61.87 mg/L	0.175	0.28%
Na 330.237†	1368.6	65.33	mg/L	0.227	65.33 mg/L	0.227	0.35%
Ni 231.604†	90.2	0.05875	mg/L	0.001072	0.05875 mg/L	0.001072	1.82%
Pb 220.353†	-25.9	-0.00399	mg/L	0.001081	-0.00399 mg/L	0.001081	27.06%
Sb 206.836†	-21.3	-0.01259	mg/L	0.002772	-0.01259 mg/L	0.002772	22.02%
Se 196.026†	0.4	-0.00361	mg/L	0.005538	-0.00361 mg/L	0.005538	153.37%
Si 288.158†	19391.2	17.44	mg/L	0.092	17.44 mg/L	0.092	0.53%
Sn 189.927†	-61.8	-0.00832	mg/L	0.000612	-0.00832 mg/L	0.000612	7.36%
Sr 421.552†	296765.9	0.6904	mg/L	0.00261	0.6904 mg/L	0.00261	0.38%
Ti 334.903†	89.6	0.00003	mg/L	0.001703	0.00003 mg/L	0.001703	>999.9%
Tl 190.801†	6.9	-0.00322	mg/L	0.002183	-0.00322 mg/L	0.002183	67.89%
V 292.402†	29.4	0.00039	mg/L	0.000383	0.00039 mg/L	0.000383	97.94%
Zn 206.200†	-2.8	0.00402	mg/L	0.000521	0.00402 mg/L	0.000521	12.96%

Sequence No.: 38
Sample ID: RG24 G WMN

Autosampler Location: 50
Date Collected: 8/9/2010 3:58:20 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG24 G WMN

Analyte Back Pressure Flow
All 167.0 kPa 0.55 L/min

Mean Data: RG24 G WMN

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2357545.4	109.4	%	1.35				1.23%
ScR 361.383	278407.9	116.8	%	2.49				2.13%
Ag 328.068†	337.3	0.00029	mg/L	0.000239	0.00029	mg/L	0.000239	81.31%
Al 308.215†	45.4	0.03727	mg/L	0.013193	0.03727	mg/L	0.013193	35.40%
As 188.979†	3.9	0.00265	mg/L	0.001868	0.00265	mg/L	0.001868	70.41%
B 249.677†	101.1	0.05402	mg/L	0.002611	0.05402	mg/L	0.002611	4.83%
Ba 233.527†	251.2	0.03562	mg/L	0.000729	0.03562	mg/L	0.000729	2.05%
Be 313.042†	-24.8	-0.00010	mg/L	0.000034	-0.00010	mg/L	0.000034	32.88%
Ca 317.933†	1014642.6	132.8	mg/L	1.88	132.8	mg/L	1.88	1.42%
Cd 228.802†	-13.0	-0.00025	mg/L	0.000059	-0.00025	mg/L	0.000059	23.81%
Co 228.616†	945.6	0.02020	mg/L	0.000236	0.02020	mg/L	0.000236	1.17%
Cr 267.716†	11.0	-0.00098	mg/L	0.001246	-0.00098	mg/L	0.001246	126.86%
Cu 324.752†	-822.1	-0.00390	mg/L	0.000182	-0.00390	mg/L	0.000182	4.66%
Fe 273.955†	5631.2	5.502	mg/L	0.1283	5.502	mg/L	0.1283	2.33%
K 766.490†	5978.4	2.683	mg/L	0.0757	2.683	mg/L	0.0757	2.82%
Mg 279.077†	76963.3	81.43	mg/L	1.745	81.43	mg/L	1.745	2.14%
Mn 257.610†	162917.5	4.703	mg/L	0.0716	4.703	mg/L	0.0716	1.52%
Mo 202.031†	18.6	0.00177	mg/L	0.000639	0.00177	mg/L	0.000639	35.99%
Na 589.592†	348455.4	61.40	mg/L	1.014	61.40	mg/L	1.014	1.65%
Na 330.237†	1349.9	64.41	mg/L	1.190	64.41	mg/L	1.190	1.85%
Ni 231.604†	96.8	0.06304	mg/L	0.001511	0.06304	mg/L	0.001511	2.40%
Pb 220.353†	-21.5	-0.00337	mg/L	0.000077	-0.00337	mg/L	0.000077	2.27%
Sb 206.836†	-23.2	-0.01357	mg/L	0.001012	-0.01357	mg/L	0.001012	7.46%
Se 196.026†	-1.3	-0.00506	mg/L	0.004907	-0.00506	mg/L	0.004907	97.00%
Si 288.158†	19284.7	17.34	mg/L	0.372	17.34	mg/L	0.372	2.15%
Sn 189.927†	-55.9	-0.00659	mg/L	0.000047	-0.00659	mg/L	0.000047	0.72%
Sr 421.552†	297570.4	0.6923	mg/L	0.01105	0.6923	mg/L	0.01105	1.60%
Ti 334.903†	87.4	-0.00014	mg/L	0.000279	-0.00014	mg/L	0.000279	198.83%
Tl 190.801†	7.7	-0.00231	mg/L	0.001950	-0.00231	mg/L	0.001950	84.56%
V 292.402†	16.2	0.00022	mg/L	0.000094	0.00022	mg/L	0.000094	42.03%
Zn 206.200†	2.8	0.00687	mg/L	0.000203	0.00687	mg/L	0.000203	2.95%

Sequence No.: 39
 Sample ID: RG42 A SWC

Autosampler Location: 51
 Date Collected: 8/9/2010 4:04:41 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG42 A SWC

Analyte Back Pressure Flow
 All 167.0 kPa 0.55 L/min

Mean Data: RG42 A SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
ScA 357.253	2350315.3	109.1	%	1.08			0.99%
ScR 361.383	277374.4	116.4	%	1.23			1.05%
Ag 328.068†	-222.8	0.00056	mg/L	0.000200	0.00113 mg/L	0.000401	35.52%
Al 308.215†	34050.9	27.97	mg/L	0.060	55.94 mg/L	0.120	0.21%
As 188.979†	22.2	0.01844	mg/L	0.004098	0.03688 mg/L	0.008195	22.22%
B 249.677†	400.8	0.2142	mg/L	0.00244	0.4285 mg/L	0.00487	1.14%
Ba 233.527†	1210.9	0.1704	mg/L	0.00183	0.3408 mg/L	0.00367	1.08%
Be 313.042†	121.1	0.00014	mg/L	0.000025	0.00028 mg/L	0.000051	18.26%
Ca 317.933†	153584.9	20.10	mg/L	0.012	40.20 mg/L	0.024	0.06%
Cd 228.802†	148.7	0.00295	mg/L	0.000063	0.00591 mg/L	0.000125	2.12%
Co 228.616†	1047.4	0.01924	mg/L	0.000107	0.03849 mg/L	0.000214	0.56%
Cr 267.716†	335.3	0.1012	mg/L	0.00155	0.2025 mg/L	0.00310	1.53%
Cu 324.752†	43207.5	0.2353	mg/L	0.00222	0.4705 mg/L	0.00443	0.94%
Fe 273.955†	54541.5	53.29	mg/L	0.043	106.6 mg/L	0.09	0.08%
K 766.490†	10321.4	4.632	mg/L	0.0073	9.265 mg/L	0.0146	0.16%
Mg 279.077†	20647.6	21.81	mg/L	0.034	43.63 mg/L	0.068	0.15%
Mn 257.610†	16274.6	0.4697	mg/L	0.00082	0.9393 mg/L	0.00163	0.17%
Mo 202.031†	158.0	0.01497	mg/L	0.000231	0.02994 mg/L	0.000462	1.54%
Na 589.592†	311351.9	54.86	mg/L	0.174	109.7 mg/L	0.35	0.32%
Na 330.237†	1203.9	58.01	mg/L	0.258	116.0 mg/L	0.52	0.45%
Ni 231.604†	119.3	0.07774	mg/L	0.001039	0.1555 mg/L	0.00208	1.34%
Pb 220.353†	1670.3	0.2382	mg/L	0.00192	0.4765 mg/L	0.00383	0.80%
Sb 206.836†	22.7	-0.00131	mg/L	0.003231	-0.00261 mg/L	0.006461	247.31%
Se 196.026†	-15.7	-0.00175	mg/L	0.004275	-0.00349 mg/L	0.008550	244.69%
Si 288.158†	3919.6	3.525	mg/L	0.0344	7.051 mg/L	0.0687	0.97%
Sn 189.927†	41.0	0.01412	mg/L	0.001213	0.02824 mg/L	0.002425	8.59%
Sr 421.552†	84644.9	0.1969	mg/L	0.00035	0.3938 mg/L	0.00069	0.18%
Ti 334.903†	31102.2	1.793	mg/L	0.0028	3.586 mg/L	0.0056	0.16%
Tl 190.801†	-3.4	-0.00626	mg/L	0.000857	-0.01252 mg/L	0.001714	13.69%
V 292.402†	13369.0	0.1230	mg/L	0.00075	0.2461 mg/L	0.00150	0.61%
Zn 206.200†	2844.1	1.446	mg/L	0.0185	2.892 mg/L	0.0369	1.28%

Sequence No.: 40
Sample ID: RG42 B SWC

Autosampler Location: 52
Date Collected: 8/9/2010 4:10:44 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG42 B SWC

Analyte Back Pressure Flow
All 166.0 kPa 0.55 L/min

Mean Data: RG42 B SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2338973.2	108.5 %		0.34			0.31%
ScR 361.383	276226.0	115.9 %		0.60			0.52%
Ag 328.068†	-678.3	0.00126 mg/L		0.000287	0.00253 mg/L	0.000574	22.69%
Al 308.215†	85658.1	70.36 mg/L		0.220	140.7 mg/L	0.44	0.31%
As 188.979†	105.6	0.08041 mg/L		0.000973	0.1608 mg/L	0.00195	1.21%
B 249.677†	233.6	0.1247 mg/L		0.00276	0.2494 mg/L	0.00551	2.21%
Ba 233.527†	1896.5	0.2639 mg/L		0.00198	0.5277 mg/L	0.00396	0.75%
Be 313.042†	353.7	0.00059 mg/L		0.000017	0.00117 mg/L	0.000035	2.97%
Ca 317.933†	226075.1	29.58 mg/L		0.057	59.17 mg/L	0.114	0.19%
Cd 228.802†	1652.0	0.03284 mg/L		0.000179	0.06567 mg/L	0.000358	0.54%
Co 228.616†	2433.4	0.04367 mg/L		0.000179	0.08735 mg/L	0.000357	0.41%
Cr 267.716†	1072.0	0.3247 mg/L		0.00284	0.6494 mg/L	0.00568	0.87%
Cu 324.752†	92924.5	0.5085 mg/L		0.00262	1.017 mg/L	0.0052	0.52%
Fe 273.955†	149243.9	145.8 mg/L		0.89	291.6 mg/L	1.78	0.61%
K 766.490†	17182.3	7.712 mg/L		0.0157	15.42 mg/L	0.031	0.20%
Mg 279.077†	34381.2	36.29 mg/L		0.075	72.58 mg/L	0.150	0.21%
Mn 257.610†	59004.9	1.703 mg/L		0.0041	3.406 mg/L	0.0081	0.24%
Mo 202.031†	300.5	0.02825 mg/L		0.000411	0.05650 mg/L	0.000821	1.45%
Na 589.592†	237885.0	41.92 mg/L		0.160	83.84 mg/L	0.319	0.38%
Na 330.237†	933.8	44.07 mg/L		0.089	88.14 mg/L	0.179	0.20%
Ni 231.604†	342.6	0.2232 mg/L		0.00128	0.4465 mg/L	0.00255	0.57%
Pb 220.353†	5032.9	0.7151 mg/L		0.00301	1.430 mg/L	0.0060	0.42%
Sb 206.836†	244.1	0.09470 mg/L		0.000948	0.1894 mg/L	0.00190	1.00%
Se 196.026†	-39.9	-0.00338 mg/L		0.003851	-0.00676 mg/L	0.007702	113.90%
Si 288.158†	5540.2	4.984 mg/L		0.0228	9.968 mg/L	0.0456	0.46%
Sn 189.927†	120.8	0.03906 mg/L		0.001342	0.07812 mg/L	0.002683	3.43%
Sr 421.552†	137061.0	0.3189 mg/L		0.00122	0.6377 mg/L	0.00244	0.38%
Ti 334.903†	82945.9	4.782 mg/L		0.0122	9.564 mg/L	0.0245	0.26%
Tl 190.801†	-4.9	-0.01483 mg/L		0.001057	-0.02965 mg/L	0.002114	7.13%
V 292.402†	32117.8	0.2936 mg/L		0.00162	0.5872 mg/L	0.00323	0.55%
Zn 206.200†	11817.3	6.006 mg/L		0.0104	12.01 mg/L	0.021	0.17%

Sequence No.: 41
 Sample ID: RG24 MBSPK WMN

Autosampler Location: 53
 Date Collected: 8/9/2010 4:16:49 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG24 MBSPK WMN

Analyte	Back Pressure	Flow
All	166.0 kPa	0.55 L/min

Mean Data: RG24 MBSPK WMN

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2325994.3	107.9 %	1.72			1.59%
ScR 361.383	280444.2	117.7 %	1.16			0.99%
Ag 328.068†	71430.8	0.4154 mg/L	0.01833	0.4154 mg/L	0.01833	4.41%
Al 308.215†	2456.4	2.010 mg/L	0.0344	2.010 mg/L	0.0344	1.71%
As 188.979†	3143.0	2.118 mg/L	0.0347	2.118 mg/L	0.0347	1.64%
B 249.677†	-7.7	-0.00575 mg/L	0.002742	-0.00575 mg/L	0.002742	47.67%
Ba 233.527†	13504.8	1.929 mg/L	0.0336	1.929 mg/L	0.0336	1.74%
Be 313.042†	122125.7	0.5034 mg/L	0.00615	0.5034 mg/L	0.00615	1.22%
Ca 317.933†	76798.5	10.05 mg/L	0.109	10.05 mg/L	0.109	1.08%
Cd 228.802†	26385.7	0.5218 mg/L	0.00453	0.5218 mg/L	0.00453	0.87%
Co 228.616†	23623.7	0.5048 mg/L	0.00391	0.5048 mg/L	0.00391	0.77%
Cr 267.716†	1657.9	0.4998 mg/L	0.00923	0.4998 mg/L	0.00923	1.85%
Cu 324.752†	92779.2	0.4963 mg/L	0.00434	0.4963 mg/L	0.00434	0.87%
Fe 273.955†	2075.8	2.028 mg/L	0.0297	2.028 mg/L	0.0297	1.46%
K 766.490†	21727.1	9.751 mg/L	0.1268	9.751 mg/L	0.1268	1.30%
Mg 279.077†	9395.2	9.940 mg/L	0.1756	9.940 mg/L	0.1756	1.77%
Mn 257.610†	16797.8	0.4854 mg/L	0.00839	0.4854 mg/L	0.00839	1.73%
Mo 202.031†	2.8	0.00019 mg/L	0.000160	0.00019 mg/L	0.000160	85.87%
Na 589.592†	53739.1	9.470 mg/L	0.1164	9.470 mg/L	0.1164	1.23%
Na 330.237†	225.5	10.69 mg/L	0.166	10.69 mg/L	0.166	1.56%
Ni 231.604†	760.2	0.4942 mg/L	0.00372	0.4942 mg/L	0.00372	0.75%
Pb 220.353†	14508.4	2.032 mg/L	0.0181	2.032 mg/L	0.0181	0.89%
Sb 206.836†	1.6	-0.00638 mg/L	0.002226	-0.00638 mg/L	0.002226	34.91%
Se 196.026†	2261.6	2.284 mg/L	0.0449	2.284 mg/L	0.0449	1.96%
Si 288.158†	0.2	0.00204 mg/L	0.002637	0.00204 mg/L	0.002637	129.57%
Sn 189.927†	-11.0	-0.00232 mg/L	0.000855	-0.00232 mg/L	0.000855	36.82%
Sr 421.552†	213057.2	0.4956 mg/L	0.00507	0.4956 mg/L	0.00507	1.02%
Ti 334.903†	5.8	-0.00017 mg/L	0.000585	-0.00017 mg/L	0.000585	336.99%
Tl 190.801†	3941.6	2.077 mg/L	0.0350	2.077 mg/L	0.0350	1.68%
V 292.402†	52295.1	0.5115 mg/L	0.00553	0.5115 mg/L	0.00553	1.08%
Zn 206.200†	972.9	0.4947 mg/L	0.01043	0.4947 mg/L	0.01043	2.11%

Sequence No.: 42

Sample ID: CV

Autosampler Location: 7

Date Collected: 8/9/2010 4:22:51 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	166.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2286465.6	106.1	%	4.25				4.00%
ScR 361.383	278971.8	117.1	%	0.36				0.31%
Ag 328.068†	162821.1	0.9468	mg/L	0.03673	0.9468	mg/L	0.03673	3.88%
Al 308.215†	2376.6	1.915	mg/L	0.0113	1.915	mg/L	0.0113	0.59%
As 188.979†	2956.0	1.992	mg/L	0.0701	1.992	mg/L	0.0701	3.52%
B 249.677†	1717.2	0.9168	mg/L	0.00925	0.9168	mg/L	0.00925	1.01%
Ba 233.527†	6603.2	0.9427	mg/L	0.00415	0.9427	mg/L	0.00415	0.44%
Be 313.042†	235526.5	0.9709	mg/L	0.00429	0.9709	mg/L	0.00429	0.44%
Ca 317.933†	15378.8	2.012	mg/L	0.0087	2.012	mg/L	0.0087	0.43%
Cd 228.802†	50518.4	1.003	mg/L	0.0354	1.003	mg/L	0.0354	3.53%
Co 228.616†	45568.7	0.9731	mg/L	0.03564	0.9731	mg/L	0.03564	3.66%
Cr 267.716†	3170.2	0.9562	mg/L	0.00450	0.9562	mg/L	0.00450	0.47%
Cu 324.752†	194963.7	1.042	mg/L	0.0375	1.042	mg/L	0.0375	3.60%
Fe 273.955†	1958.5	1.913	mg/L	0.0061	1.913	mg/L	0.0061	0.32%
K 766.490†	41698.7	18.71	mg/L	0.013	18.71	mg/L	0.013	0.07%
Mg 279.077†	1836.7	1.946	mg/L	0.0055	1.946	mg/L	0.0055	0.28%
Mn 257.610†	32699.8	0.9445	mg/L	0.00437	0.9445	mg/L	0.00437	0.46%
Mo 202.031†	10162.6	0.9691	mg/L	0.03231	0.9691	mg/L	0.03231	3.33%
Na 589.592†	257334.0	45.35	mg/L	0.079	45.35	mg/L	0.079	0.17%
Na 330.237†	991.8	47.84	mg/L	0.189	47.84	mg/L	0.189	0.39%
Ni 231.604†	1472.1	0.9595	mg/L	0.00755	0.9595	mg/L	0.00755	0.79%
Pb 220.353†	14088.8	1.974	mg/L	0.0720	1.974	mg/L	0.0720	3.65%
Sb 206.836†	3956.9	2.125	mg/L	0.0764	2.125	mg/L	0.0764	3.59%
Se 196.026†	1965.4	1.983	mg/L	0.0609	1.983	mg/L	0.0609	3.07%
Si 288.158†	2274.5	2.047	mg/L	0.0086	2.047	mg/L	0.0086	0.42%
Sn 189.927†	3210.0	0.9207	mg/L	0.03247	0.9207	mg/L	0.03247	3.53%
Sr 421.552†	415028.9	0.9655	mg/L	0.00153	0.9655	mg/L	0.00153	0.16%
Ti 334.903†	16550.5	0.9532	mg/L	0.00132	0.9532	mg/L	0.00132	0.14%
Tl 190.801†	3685.1	1.935	mg/L	0.0664	1.935	mg/L	0.0664	3.43%
V 292.402†	100097.6	0.9845	mg/L	0.03425	0.9845	mg/L	0.03425	3.48%
Zn 206.200†	1926.8	0.9783	mg/L	0.00573	0.9783	mg/L	0.00573	0.59%

Sequence No.: 43

Sample ID: CB 4

Dilution: 1X

Autosampler Location: 1

Date Collected: 8/9/2010 4:28:52 PM

Data Type: Original

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	166.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2369204.4	109.9	%	0.51			0.47%
ScR 361.383	273976.7	115.0	%	1.45			1.26%
Ag 328.068†	43.6	0.00025	mg/L	0.000131	0.00025 mg/L	0.000131	51.62%
Al 308.215†	17.3	0.01420	mg/L	0.001969	0.01420 mg/L	0.001969	13.87%
As 188.979†	1.9	0.00129	mg/L	0.001891	0.00129 mg/L	0.001891	146.46%
B 249.677†	1.9	0.00101	mg/L	0.001595	0.00101 mg/L	0.001595	157.41%
Ba 233.527†	-1.0	-0.00014	mg/L	0.000549	-0.00014 mg/L	0.000549	397.87%
Be 313.042†	-0.5	0.00000	mg/L	0.000036	0.00000 mg/L	0.000036	>999.9%
Ca 317.933†	15.0	0.00197	mg/L	0.001024	0.00197 mg/L	0.001024	52.06%
Cd 228.802†	1.2	0.00002	mg/L	0.000061	0.00002 mg/L	0.000061	286.09%
Co 228.616†	0.3	0.00001	mg/L	0.000160	0.00001 mg/L	0.000160	>999.9%
Cr 267.716†	2.0	0.00061	mg/L	0.001043	0.00061 mg/L	0.001043	171.14%
Cu 324.752†	26.2	0.00014	mg/L	0.000213	0.00014 mg/L	0.000213	151.94%
Fe 273.955†	3.9	0.00383	mg/L	0.002239	0.00383 mg/L	0.002239	58.51%
K 766.490†	-124.4	-0.05584	mg/L	0.030903	-0.05584 mg/L	0.030903	55.34%
Mg 279.077†	4.4	0.00467	mg/L	0.003171	0.00467 mg/L	0.003171	67.85%
Mn 257.610†	0.9	0.00002	mg/L	0.000090	0.00002 mg/L	0.000090	365.19%
Mo 202.031†	1.0	0.00010	mg/L	0.000392	0.00010 mg/L	0.000392	397.87%
Na 589.592†	236.8	0.04173	mg/L	0.005513	0.04173 mg/L	0.005513	13.21%
Na 330.237†	18.7	0.9044	mg/L	0.26150	0.9044 mg/L	0.26150	28.91%
Ni 231.604†	0.1	0.00004	mg/L	0.003670	0.00004 mg/L	0.003670	>999.9%
Pb 220.353†	-2.5	-0.00035	mg/L	0.000601	-0.00035 mg/L	0.000601	173.44%
Sb 206.836†	-10.8	-0.00584	mg/L	0.001368	-0.00584 mg/L	0.001368	23.44%
Se 196.026†	6.3	0.00637	mg/L	0.005352	0.00637 mg/L	0.005352	83.99%
Si 288.158†	8.9	0.00802	mg/L	0.002493	0.00802 mg/L	0.002493	31.09%
Sn 189.927†	-0.7	-0.00021	mg/L	0.000394	-0.00021 mg/L	0.000394	184.57%
Sr 421.552†	-19.8	-0.00005	mg/L	0.000075	-0.00005 mg/L	0.000075	163.06%
Ti 334.903†	0.5	0.00003	mg/L	0.000746	0.00003 mg/L	0.000746	>999.9%
Tl 190.801†	6.0	0.00316	mg/L	0.001870	0.00316 mg/L	0.001870	59.07%
V 292.402†	6.9	0.00007	mg/L	0.000147	0.00007 mg/L	0.000147	205.67%
Zn 206.200†	6.6	0.00335	mg/L	0.001035	0.00335 mg/L	0.001035	30.84%

User canceled analysis.

=====
Analysis Begun

Start Time: 8/9/2010 4:33:29 PM

Plasma On Time: 8/9/2010 10:12:27 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0809.sif

Batch ID:

Results Data Set: PE100809

Results Library: C:\pe\metals\Results\Results.mdb

=====
Sequence No.: 42

Autosampler Location: 7

Sample ID: CV 5

Date Collected: 8/9/2010 4:33:32 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	166.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib.		Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
ScA 357.253	2354310.3	109.2	%	0.50				0.46%
ScR 361.383	280461.5	117.7	%	0.51				0.43%
Ag 328.068†	157541.8	0.9161	mg/L	0.00265	0.9161	mg/L	0.00265	0.29%
Al 308.215†	2352.2	1.896	mg/L	0.0016	1.896	mg/L	0.0016	0.09%
As 188.979†	2865.0	1.931	mg/L	0.0155	1.931	mg/L	0.0155	0.80%
B 249.677†	1710.9	0.9135	mg/L	0.00870	0.9135	mg/L	0.00870	0.95%
Ba 233.527†	6524.6	0.9314	mg/L	0.00404	0.9314	mg/L	0.00404	0.43%
Be 313.042†	232978.9	0.9605	mg/L	0.00116	0.9605	mg/L	0.00116	0.12%
Ca 317.933†	15179.4	1.986	mg/L	0.0055	1.986	mg/L	0.0055	0.28%
Cd 228.802†	48647.8	0.9657	mg/L	0.00239	0.9657	mg/L	0.00239	0.25%
Co 228.616†	43889.7	0.9372	mg/L	0.00595	0.9372	mg/L	0.00595	0.64%
Cr 267.716†	3125.7	0.9428	mg/L	0.00131	0.9428	mg/L	0.00131	0.14%
Cu 324.752†	187643.2	1.003	mg/L	0.0056	1.003	mg/L	0.0056	0.56%
Fe 273.955†	1942.1	1.897	mg/L	0.0053	1.897	mg/L	0.0053	0.28%
K 766.490†	41300.6	18.54	mg/L	0.023	18.54	mg/L	0.023	0.12%
Mg 279.077†	1817.5	1.926	mg/L	0.0037	1.926	mg/L	0.0037	0.19%
Mn 257.610†	32764.4	0.9463	mg/L	0.00078	0.9463	mg/L	0.00078	0.08%
Mo 202.031†	9830.5	0.9374	mg/L	0.00749	0.9374	mg/L	0.00749	0.80%
Na 589.592†	255228.5	44.98	mg/L	0.225	44.98	mg/L	0.225	0.50%
Na 330.237†	984.6	47.50	mg/L	0.178	47.50	mg/L	0.178	0.37%
Ni 231.604†	1456.1	0.9491	mg/L	0.00601	0.9491	mg/L	0.00601	0.63%
Pb 220.353†	13517.8	1.894	mg/L	0.0080	1.894	mg/L	0.0080	0.42%
Sb 206.836†	3834.4	2.059	mg/L	0.0158	2.059	mg/L	0.0158	0.77%
Se 196.026†	1904.6	1.922	mg/L	0.0209	1.922	mg/L	0.0209	1.09%
Si 288.158†	2252.7	2.027	mg/L	0.0050	2.027	mg/L	0.0050	0.25%
Sn 189.927†	3105.6	0.8908	mg/L	0.00796	0.8908	mg/L	0.00796	0.89%
Sr 421.552†	410990.4	0.9561	mg/L	0.00065	0.9561	mg/L	0.00065	0.07%
Ti 334.903†	16357.4	0.9421	mg/L	0.00158	0.9421	mg/L	0.00158	0.17%
Tl 190.801†	3570.6	1.875	mg/L	0.0135	1.875	mg/L	0.0135	0.72%
V 292.402†	96364.7	0.9480	mg/L	0.00528	0.9480	mg/L	0.00528	0.56%
Zn 206.200†	1888.2	0.9588	mg/L	0.00178	0.9588	mg/L	0.00178	0.19%

Sequence No.: 43
 Sample ID: CB

Autosampler Location: 1
 Date Collected: 8/9/2010 4:39:33 PM
 Data Type: Original

Dilution: 1X

 Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	166.0 kPa	0.55 L/min

 Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2377915.9	110.3	%	0.27			0.25%
ScR 361.383	275531.7	115.6	%	0.75			0.65%
Ag 328.068†	67.0	0.00039	mg/L	0.000188	0.00039 mg/L	0.000188	48.12%
Al 308.215†	20.1	0.01652	mg/L	0.009209	0.01652 mg/L	0.009209	55.76%
As 188.979†	6.4	0.00430	mg/L	0.000919	0.00430 mg/L	0.000919	21.37%
B 249.677†	3.5	0.00185	mg/L	0.000693	0.00185 mg/L	0.000693	37.44%
Ba 233.527†	1.9	0.00027	mg/L	0.000243	0.00027 mg/L	0.000243	91.77%
Be 313.042†	-32.3	-0.00013	mg/L	0.000041	-0.00013 mg/L	0.000041	30.63%
Ca 317.933†	21.0	0.00275	mg/L	0.003417	0.00275 mg/L	0.003417	124.40%
Cd 228.802†	-2.5	-0.00006	mg/L	0.000046	-0.00006 mg/L	0.000046	82.49%
Co 228.616†	2.0	0.00004	mg/L	0.000034	0.00004 mg/L	0.000034	82.11%
Cr 267.716†	0.4	0.00012	mg/L	0.000148	0.00012 mg/L	0.000148	124.75%
Cu 324.752†	-89.8	-0.00048	mg/L	0.000273	-0.00048 mg/L	0.000273	56.82%
Fe 273.955†	-0.5	-0.00045	mg/L	0.002019	-0.00045 mg/L	0.002019	447.33%
K 766.490†	-187.6	-0.08418	mg/L	0.013789	-0.08418 mg/L	0.013789	16.38%
Mg 279.077†	-0.3	-0.00030	mg/L	0.005064	-0.00030 mg/L	0.005064	>999.9%
Mn 257.610†	-0.6	-0.00002	mg/L	0.000065	-0.00002 mg/L	0.000065	344.21%
Mo 202.031†	-2.9	-0.00028	mg/L	0.000440	-0.00028 mg/L	0.000440	158.50%
Na 589.592†	224.8	0.03961	mg/L	0.011484	0.03961 mg/L	0.011484	28.99%
Na 330.237†	27.0	1.305	mg/L	0.4251	1.305 mg/L	0.4251	32.57%
Ni 231.604†	4.8	0.00312	mg/L	0.000353	0.00312 mg/L	0.000353	11.32%
Pb 220.353†	-3.7	-0.00052	mg/L	0.000197	-0.00052 mg/L	0.000197	38.32%
Sb 206.836†	-8.8	-0.00473	mg/L	0.001197	-0.00473 mg/L	0.001197	25.30%
Se 196.026†	4.8	0.00488	mg/L	0.004788	0.00488 mg/L	0.004788	98.13%
Si 288.158†	7.2	0.00647	mg/L	0.003759	0.00647 mg/L	0.003759	58.07%
Sn 189.927†	-0.0	-0.00001	mg/L	0.001014	-0.00001 mg/L	0.001014	>999.9%
Sr 421.552†	-42.4	-0.00010	mg/L	0.000065	-0.00010 mg/L	0.000065	66.28%
Ti 334.903†	7.1	0.00041	mg/L	0.000338	0.00041 mg/L	0.000338	82.92%
Tl 190.801†	6.2	0.00325	mg/L	0.000717	0.00325 mg/L	0.000717	22.04%
V 292.402†	8.6	0.00008	mg/L	0.000167	0.00008 mg/L	0.000167	203.08%
Zn 206.200†	3.1	0.00155	mg/L	0.000374	0.00155 mg/L	0.000374	24.03%

Sequence No.: 44
Sample ID: RG24 C WMN

Autosampler Location: 54
Date Collected: 8/9/2010 4:45:31 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG24 C WMN

Analyte Back Pressure Flow
All 166.0 kPa 0.55 L/min

Mean Data: RG24 C WMN

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2432228.8	112.9 %		0.62			0.55%
ScR 361.383	281876.4	118.3 %		0.93			0.79%
Ag 328.068†	34.6	0.00015 mg/L		0.000101	0.00015 mg/L	0.000101	67.38%
Al 308.215†	28.3	0.02321 mg/L		0.011267	0.02321 mg/L	0.011267	48.54%
As 188.979†	2.8	0.00187 mg/L		0.001576	0.00187 mg/L	0.001576	84.17%
B 249.677†	36.0	0.01926 mg/L		0.002319	0.01926 mg/L	0.002319	12.04%
Ba 233.527†	8.1	0.00116 mg/L		0.000281	0.00116 mg/L	0.000281	24.27%
Be 313.042†	-30.3	-0.00013 mg/L		0.000078	-0.00013 mg/L	0.000078	61.33%
Ca 317.933†	49474.3	6.474 mg/L		0.0402	6.474 mg/L	0.0402	0.62%
Cd 228.802†	-9.0	-0.00018 mg/L		0.000108	-0.00018 mg/L	0.000108	58.92%
Co 228.616†	25.4	0.00054 mg/L		0.000154	0.00054 mg/L	0.000154	28.50%
Cr 267.716†	3.8	0.00091 mg/L		0.000955	0.00091 mg/L	0.000955	104.60%
Cu 324.752†	-604.9	-0.00323 mg/L		0.000033	-0.00323 mg/L	0.000033	1.02%
Fe 273.955†	22.2	0.02171 mg/L		0.001727	0.02171 mg/L	0.001727	7.96%
K 766.490†	1544.4	0.6931 mg/L		0.01159	0.6931 mg/L	0.01159	1.67%
Mg 279.077†	4358.6	4.612 mg/L		0.0351	4.612 mg/L	0.0351	0.76%
Mn 257.610†	228.3	0.00659 mg/L		0.000089	0.00659 mg/L	0.000089	1.36%
Mo 202.031†	-2.0	-0.00019 mg/L		0.000005	-0.00019 mg/L	0.000005	2.72%
Na 589.592†	117009.3	20.62 mg/L		0.102	20.62 mg/L	0.102	0.49%
Na 330.237†	469.5	22.66 mg/L		0.217	22.66 mg/L	0.217	0.96%
Ni 231.604†	2.4	0.00156 mg/L		0.001757	0.00156 mg/L	0.001757	112.56%
Pb 220.353†	-16.5	-0.00229 mg/L		0.001329	-0.00229 mg/L	0.001329	57.94%
Sb 206.836†	-18.6	-0.01006 mg/L		0.001855	-0.01006 mg/L	0.001855	18.43%
Se 196.026†	10.0	0.01006 mg/L		0.000932	0.01006 mg/L	0.000932	9.26%
Si 288.158†	13293.7	11.95 mg/L		0.068	11.95 mg/L	0.068	0.57%
Sn 189.927†	-8.2	-0.00188 mg/L		0.000985	-0.00188 mg/L	0.000985	52.38%
Sr 421.552†	9138.9	0.02126 mg/L		0.000187	0.02126 mg/L	0.000187	0.88%
Ti 334.903†	15.4	0.00064 mg/L		0.000967	0.00064 mg/L	0.000967	152.25%
Tl 190.801†	0.7	0.00036 mg/L		0.000620	0.00036 mg/L	0.000620	172.66%
V 292.402†	87.1	0.00085 mg/L		0.000142	0.00085 mg/L	0.000142	16.75%
Zn 206.200†	3.9	0.00225 mg/L		0.001908	0.00225 mg/L	0.001908	84.79%

Sequence No.: 45
Sample ID: RG42 C SWC

Autosampler Location: 55
Date Collected: 8/9/2010 4:51:48 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG42 C SWC

Analyte Back Pressure Flow
All 166.0 kPa 0.55 L/min

Mean Data: RG42 C SWC

Analyte	Mean Corrected Intensity	Conc.	Units	Calib.	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2409082.6	111.8	%		0.86				0.77%
ScR 361.383	284492.1	119.4	%		0.64				0.54%
Ag 328.068†	-458.0	0.00106	mg/L		0.000097	0.00211	mg/L	0.000193	9.15%
Al 308.215†	84977.9	69.80	mg/L		0.101	139.6	mg/L	0.20	0.14%
As 188.979†	20.2	0.02307	mg/L		0.002041	0.04615	mg/L	0.004082	8.85%
B 249.677†	44.7	0.02369	mg/L		0.001575	0.04739	mg/L	0.003150	6.65%
Ba 233.527†	2553.7	0.3596	mg/L		0.00166	0.7191	mg/L	0.00331	0.46%
Be 313.042†	329.8	0.00058	mg/L		0.000073	0.00115	mg/L	0.000147	12.76%
Ca 317.933†	276259.0	36.15	mg/L		0.044	72.30	mg/L	0.088	0.12%
Cd 228.802†	212.9	0.00426	mg/L		0.000096	0.00851	mg/L	0.000192	2.26%
Co 228.616†	2352.5	0.04181	mg/L		0.000375	0.08362	mg/L	0.000749	0.90%
Cr 267.716†	763.2	0.2309	mg/L		0.00154	0.4619	mg/L	0.00308	0.67%
Cu 324.752†	58812.6	0.3227	mg/L		0.00320	0.6454	mg/L	0.00640	0.99%
Fe 273.955†	109756.0	107.2	mg/L		0.20	214.5	mg/L	0.39	0.18%
K 766.490†	8210.7	3.685	mg/L		0.0042	7.370	mg/L	0.0084	0.11%
Mg 279.077†	25880.7	27.32	mg/L		0.051	54.64	mg/L	0.103	0.19%
Mn 257.610†	45425.0	1.311	mg/L		0.0009	2.622	mg/L	0.0017	0.07%
Mo 202.031†	133.0	0.01253	mg/L		0.000239	0.02506	mg/L	0.000478	1.91%
Na 589.592†	17849.3	3.145	mg/L		0.0042	6.291	mg/L	0.0083	0.13%
Na 330.237†	86.4	4.266	mg/L		0.1891	8.533	mg/L	0.3782	4.43%
Ni 231.604†	232.6	0.1515	mg/L		0.00295	0.3031	mg/L	0.00591	1.95%
Pb 220.353†	2198.0	0.3206	mg/L		0.00436	0.6411	mg/L	0.00872	1.36%
Sb 206.836†	47.1	-0.00380	mg/L		0.004132	-0.00760	mg/L	0.008264	108.68%
Se 196.026†	-30.0	0.00044	mg/L		0.000950	0.00088	mg/L	0.001901	216.29%
Si 288.158†	6467.5	5.816	mg/L		0.0280	11.63	mg/L	0.056	0.48%
Sn 189.927†	34.6	0.01449	mg/L		0.001393	0.02899	mg/L	0.002787	9.61%
Sr 421.552†	98292.7	0.2287	mg/L		0.00022	0.4573	mg/L	0.00044	0.10%
Ti 334.903†	84010.2	4.843	mg/L		0.0044	9.687	mg/L	0.0087	0.09%
Tl 190.801†	-2.2	-0.01279	mg/L		0.000993	-0.02557	mg/L	0.001986	7.76%
V 292.402†	28597.4	0.2631	mg/L		0.00303	0.5263	mg/L	0.00605	1.15%
Zn 206.200†	4287.3	2.180	mg/L		0.0087	4.360	mg/L	0.0173	0.40%

Sequence No.: 46
Sample ID: RG42 D SWC

Autosampler Location: 56
Date Collected: 8/9/2010 4:57:49 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG42 D SWC

Analyte Back Pressure Flow
All 166.0 kPa 0.55 L/min

Mean Data: RG42 D SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2369535.3	110.0 %		0.65			0.59%
ScR 361.383	281873.2	118.3 %		0.12			0.10%
Ag 328.068†	-400.5	0.00079 mg/L		0.000186	0.00158 mg/L	0.000372	23.54%
Al 308.215†	82528.3	67.79 mg/L		0.069	135.6 mg/L	0.14	0.10%
As 188.979†	60.7	0.05035 mg/L		0.001084	0.1007 mg/L	0.00217	2.15%
B 249.677†	184.9	0.09874 mg/L		0.000687	0.1975 mg/L	0.00137	0.70%
Ba 233.527†	1417.6	0.1973 mg/L		0.00077	0.3947 mg/L	0.00154	0.39%
Be 313.042†	318.0	0.00047 mg/L		0.000014	0.00093 mg/L	0.000028	2.99%
Ca 317.933†	839736.1	109.9 mg/L		0.12	219.8 mg/L	0.24	0.11%
Cd 228.802†	735.9	0.01461 mg/L		0.000097	0.02923 mg/L	0.000194	0.66%
Co 228.616†	1864.5	0.03146 mg/L		0.000157	0.06292 mg/L	0.000314	0.50%
Cr 267.716†	561.8	0.1687 mg/L		0.00030	0.3373 mg/L	0.00061	0.18%
Cu 324.752†	44914.0	0.2483 mg/L		0.00289	0.4967 mg/L	0.00578	1.16%
Fe 273.955†	108953.2	106.5 mg/L		0.08	212.9 mg/L	0.16	0.08%
K 766.490†	14244.7	6.393 mg/L		0.0014	12.79 mg/L	0.003	0.02%
Mg 279.077†	32962.7	34.81 mg/L		0.058	69.63 mg/L	0.117	0.17%
Mn 257.610†	42870.9	1.237 mg/L		0.0021	2.474 mg/L	0.0042	0.17%
Mo 202.031†	94.6	0.00884 mg/L		0.000299	0.01769 mg/L	0.000599	3.39%
Na 589.592†	191485.6	33.74 mg/L		0.097	67.49 mg/L	0.195	0.29%
Na 330.237†	754.6	35.96 mg/L		0.260	71.92 mg/L	0.520	0.72%
Ni 231.604†	174.0	0.1134 mg/L		0.00591	0.2267 mg/L	0.01182	5.22%
Pb 220.353†	1375.4	0.2048 mg/L		0.00065	0.4096 mg/L	0.00130	0.32%
Sb 206.836†	115.1	0.03442 mg/L		0.001353	0.06885 mg/L	0.002706	3.93%
Se 196.026†	-30.3	-0.00035 mg/L		0.004004	-0.00070 mg/L	0.008007	>999.9%
Si 288.158†	7286.4	6.553 mg/L		0.0104	13.11 mg/L	0.021	0.16%
Sn 189.927†	40.1	0.02025 mg/L		0.001732	0.04050 mg/L	0.003463	8.55%
Sr 421.552†	207564.2	0.4829 mg/L		0.00012	0.9657 mg/L	0.00024	0.03%
Ti 334.903†	83573.4	4.815 mg/L		0.0088	9.631 mg/L	0.0176	0.18%
Tl 190.801†	-2.1	-0.01265 mg/L		0.001163	-0.02530 mg/L	0.002326	9.19%
V 292.402†	31012.9	0.2863 mg/L		0.00380	0.5726 mg/L	0.00760	1.33%
Zn 206.200†	5107.5	2.599 mg/L		0.0081	5.198 mg/L	0.0163	0.31%

Sequence No.: 47
Sample ID: RG42 E SWC

Autosampler Location: 57
Date Collected: 8/9/2010 5:03:53 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG42 E SWC

Analyte Back Pressure Flow
All 166.0 kPa 0.55 L/min

Mean Data: RG42 E SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2383690.3	110.6 %	%	0.32			0.29%
ScR 361.383	283429.5	119.0 %	%	0.64			0.53%
Ag 328.068†	-515.7	0.00129 mg/L	mg/L	0.000485	0.00257 mg/L	0.000971	37.71%
Al 308.215†	107319.3	88.15 mg/L	mg/L	0.094	176.3 mg/L	0.19	0.11%
As 188.979†	34.7	0.03345 mg/L	mg/L	0.003161	0.06691 mg/L	0.006322	9.45%
B 249.677†	84.6	0.04501 mg/L	mg/L	0.001311	0.09003 mg/L	0.002622	2.91%
Ba 233.527†	2924.1	0.4113 mg/L	mg/L	0.00342	0.8226 mg/L	0.00685	0.83%
Be 313.042†	449.8	0.00092 mg/L	mg/L	0.000024	0.00183 mg/L	0.000048	2.63%
Ca 317.933†	626342.5	81.96 mg/L	mg/L	0.126	163.9 mg/L	0.25	0.15%
Cd 228.802†	252.4	0.00504 mg/L	mg/L	0.000074	0.01008 mg/L	0.000148	1.47%
Co 228.616†	3147.8	0.05827 mg/L	mg/L	0.000132	0.1165 mg/L	0.00026	0.23%
Cr 267.716†	842.0	0.2541 mg/L	mg/L	0.00287	0.5082 mg/L	0.00574	1.13%
Cu 324.752†	86270.7	0.4716 mg/L	mg/L	0.00170	0.9432 mg/L	0.00340	0.36%
Fe 273.955†	135079.2	132.0 mg/L	mg/L	0.26	264.0 mg/L	0.53	0.20%
K 766.490†	10843.2	4.867 mg/L	mg/L	0.0217	9.733 mg/L	0.0435	0.45%
Mg 279.077†	34881.5	36.83 mg/L	mg/L	0.090	73.66 mg/L	0.180	0.24%
Mn 257.610†	54083.7	1.561 mg/L	mg/L	0.0034	3.122 mg/L	0.0067	0.22%
Mo 202.031†	164.6	0.01552 mg/L	mg/L	0.000690	0.03103 mg/L	0.001380	4.45%
Na 589.592†	19057.5	3.358 mg/L	mg/L	0.0187	6.716 mg/L	0.0374	0.56%
Na 330.237†	99.7	4.547 mg/L	mg/L	0.1866	9.093 mg/L	0.3733	4.11%
Ni 231.604†	311.9	0.2032 mg/L	mg/L	0.00282	0.4064 mg/L	0.00564	1.39%
Pb 220.353†	3416.8	0.4947 mg/L	mg/L	0.00336	0.9893 mg/L	0.00673	0.68%
Sb 206.836†	62.4	-0.00350 mg/L	mg/L	0.001232	-0.00699 mg/L	0.002463	35.24%
Se 196.026†	-40.7	-0.00286 mg/L	mg/L	0.003565	-0.00572 mg/L	0.007130	124.61%
Si 288.158†	8416.7	7.569 mg/L	mg/L	0.0156	15.14 mg/L	0.031	0.21%
Sn 189.927†	48.0	0.02119 mg/L	mg/L	0.002213	0.04239 mg/L	0.004427	10.44%
Sr 421.552†	160350.2	0.3730 mg/L	mg/L	0.00073	0.7461 mg/L	0.00145	0.19%
Ti 334.903†	89363.7	5.150 mg/L	mg/L	0.0086	10.30 mg/L	0.017	0.17%
Tl 190.801†	-4.8	-0.01542 mg/L	mg/L	0.000173	-0.03084 mg/L	0.000345	1.12%
V 292.402†	34619.4	0.3187 mg/L	mg/L	0.00214	0.6374 mg/L	0.00429	0.67%
Zn 206.200†	5081.4	2.585 mg/L	mg/L	0.0208	5.170 mg/L	0.0416	0.81%

Sequence No.: 48
Sample ID: RG47 A SWC

Autosampler Location: 58
Date Collected: 8/9/2010 5:09:56 PM
Data Type: Original

Dilution: 5X

Nebulizer Parameters: RG47 A SWC

Analyte Back Pressure Flow
All 167.0 kPa 0.55 L/min

Mean Data: RG47 A SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2418993.5	112.2 %	%	0.10			0.09%
ScR 361.383	286012.0	120.0 %	%	1.22			1.01%
Ag 328.068†	-435.7	0.00142 mg/L	mg/L	0.000500	0.00712 mg/L	0.002500	35.11%
Al 308.215†	47943.7	39.38 mg/L	mg/L	0.083	196.9 mg/L	0.41	0.21%
As 188.979†	18.9	0.01752 mg/L	mg/L	0.001988	0.08760 mg/L	0.009941	11.35%
B 249.677†	62.3	0.03317 mg/L	mg/L	0.000878	0.1659 mg/L	0.00439	2.65%
Ba 233.527†	4570.1	0.6472 mg/L	mg/L	0.00632	3.236 mg/L	0.0316	0.98%
Be 313.042†	112.2	0.00002 mg/L	mg/L	0.000047	0.00010 mg/L	0.000235	225.74%
Ca 317.933†	276901.6	36.23 mg/L	mg/L	0.140	181.2 mg/L	0.70	0.39%
Cd 228.802†	906.7	0.01809 mg/L	mg/L	0.000036	0.09046 mg/L	0.000181	0.20%
Co 228.616†	1612.1	0.02996 mg/L	mg/L	0.000128	0.1498 mg/L	0.00064	0.43%
Cr 267.716†	685.2	0.2077 mg/L	mg/L	0.00267	1.039 mg/L	0.0133	1.28%
Cu 324.752†	77450.8	0.4236 mg/L	mg/L	0.00161	2.118 mg/L	0.0080	0.38%
Fe 273.955†	118003.1	115.3 mg/L	mg/L	0.45	576.5 mg/L	2.25	0.39%
K 766.490†	4883.1	2.192 mg/L	mg/L	0.0210	10.96 mg/L	0.105	0.96%
Mg 279.077†	19827.1	20.91 mg/L	mg/L	0.045	104.6 mg/L	0.22	0.22%
Mn 257.610†	54222.5	1.565 mg/L	mg/L	0.0034	7.825 mg/L	0.0171	0.22%
Mo 202.031†	130.4	0.01234 mg/L	mg/L	0.000188	0.06170 mg/L	0.000938	1.52%
Na 589.592†	6385.2	1.125 mg/L	mg/L	0.0088	5.626 mg/L	0.0438	0.78%
Na 330.237†	46.5	2.159 mg/L	mg/L	0.1488	10.80 mg/L	0.744	6.89%
Ni 231.604†	303.3	0.1975 mg/L	mg/L	0.00420	0.9876 mg/L	0.02102	2.13%
Pb 220.353†	749.7	0.1086 mg/L	mg/L	0.00095	0.5428 mg/L	0.00474	0.87%
Sb 206.836†	39.7	-0.00530 mg/L	mg/L	0.003828	-0.02652 mg/L	0.019141	72.16%
Se 196.026†	-25.2	0.00028 mg/L	mg/L	0.009234	0.00139 mg/L	0.046172	>999.9%
Si 288.158†	3258.9	2.932 mg/L	mg/L	0.0240	14.66 mg/L	0.120	0.82%
Sn 189.927†	29.5	0.01196 mg/L	mg/L	0.000092	0.05981 mg/L	0.000458	0.77%
Sr 421.552†	52982.4	0.1233 mg/L	mg/L	0.00035	0.6163 mg/L	0.00173	0.28%
Ti 334.903†	43291.2	2.495 mg/L	mg/L	0.0024	12.48 mg/L	0.012	0.09%
Tl 190.801†	-5.5	-0.01021 mg/L	mg/L	0.001573	-0.05106 mg/L	0.007865	15.40%
V 292.402†	16233.9	0.1438 mg/L	mg/L	0.00061	0.7191 mg/L	0.00304	0.42%
Zn 206.200†	2327.3	1.184 mg/L	mg/L	0.0150	5.919 mg/L	0.0752	1.27%

Sequence No.: 49
 Sample ID: RG60 B SWC

Autosampler Location: 59
 Date Collected: 8/9/2010 5:15:57 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG60 B SWC

Analyte Back Pressure Flow
 All 166.0 kPa 0.55 L/min

Mean Data: RG60 B SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2317933.0	107.6	%	8.14			7.56%
ScR 361.383	287735.9	120.8	%	0.36			0.30%
Ag 328.068†	-980.6	0.00002	mg/L	0.000211	0.00004 mg/L	0.000423	>999.9%
Al 308.215†	181371.2	149.0	mg/L	0.26	298.0 mg/L	0.52	0.18%
As 188.979†	50.5	0.04900	mg/L	0.006952	0.09801 mg/L	0.013904	14.19%
B 249.677†	49.4	0.02609	mg/L	0.002049	0.05219 mg/L	0.004098	7.85%
Ba 233.527†	4351.5	0.6135	mg/L	0.00335	1.227 mg/L	0.0067	0.55%
Be 313.042†	679.6	0.00149	mg/L	0.000077	0.00298 mg/L	0.000155	5.20%
Ca 317.933†	367569.9	48.10	mg/L	0.207	96.20 mg/L	0.414	0.43%
Cd 228.802†	114.9	0.00231	mg/L	0.000452	0.00462 mg/L	0.000903	19.56%
Co 228.616†	3904.6	0.07016	mg/L	0.006130	0.1403 mg/L	0.01226	8.74%
Cr 267.716†	916.2	0.2774	mg/L	0.00323	0.5549 mg/L	0.00646	1.16%
Cu 324.752†	42674.5	0.2410	mg/L	0.02062	0.4820 mg/L	0.04124	8.56%
Fe 273.955†	169950.0	166.1	mg/L	0.34	332.1 mg/L	0.68	0.21%
K 766.490†	11757.6	5.277	mg/L	0.0313	10.55 mg/L	0.063	0.59%
Mg 279.077†	46893.1	49.52	mg/L	0.167	99.04 mg/L	0.333	0.34%
Mn 257.610†	91959.7	2.654	mg/L	0.0062	5.307 mg/L	0.0125	0.24%
Mo 202.031†	46.4	0.00437	mg/L	0.000961	0.00874 mg/L	0.001921	21.99%
Na 589.592†	12666.0	2.232	mg/L	0.0112	4.464 mg/L	0.0224	0.50%
Na 330.237†	52.4	3.663	mg/L	0.0572	7.325 mg/L	0.1144	1.56%
Ni 231.604†	472.8	0.3080	mg/L	0.00193	0.6159 mg/L	0.00386	0.63%
Pb 220.353†	1874.7	0.2939	mg/L	0.02192	0.5877 mg/L	0.04385	7.46%
Sb 206.836†	102.2	0.00162	mg/L	0.010412	0.00324 mg/L	0.020824	641.76%
Se 196.026†	-72.6	-0.01823	mg/L	0.008287	-0.03645 mg/L	0.016575	45.47%
Si 288.158†	7276.0	6.546	mg/L	0.0250	13.09 mg/L	0.050	0.38%
Sn 189.927†	-33.4	-0.00269	mg/L	0.000185	-0.00537 mg/L	0.000370	6.89%
Sr 421.552†	124139.1	0.2888	mg/L	0.00038	0.5776 mg/L	0.00076	0.13%
Ti 334.903†	131610.8	7.588	mg/L	0.0192	15.18 mg/L	0.038	0.25%
Tl 190.801†	0.7	-0.01884	mg/L	0.001495	-0.03767 mg/L	0.002990	7.94%
V 292.402†	48218.5	0.4451	mg/L	0.04139	0.8903 mg/L	0.08279	9.30%
Zn 206.200†	918.2	0.4688	mg/L	0.00440	0.9376 mg/L	0.00880	0.94%

Sequence No.: 50
Sample ID: RG60 C SWC

Autosampler Location: 60
Date Collected: 8/9/2010 5:22:00 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG60 C SWC

Analyte Back Pressure Flow
All 166.0 kPa 0.55 L/min

Mean Data: RG60 C SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2417886.9	112.2 %		0.43			0.38%
ScR 361.383	288503.7	121.1 %		1.01			0.84%
Ag 328.068†	-883.3	0.00049 mg/L		0.000284	0.00097 mg/L	0.000569	58.64%
Al 308.215†	174653.3	143.5 mg/L		0.66	286.9 mg/L	1.32	0.46%
As 188.979†	47.5	0.04623 mg/L		0.002326	0.09246 mg/L	0.004651	5.03%
B 249.677†	39.6	0.02083 mg/L		0.001413	0.04166 mg/L	0.002825	6.78%
Ba 233.527†	4141.8	0.5835 mg/L		0.00442	1.167 mg/L	0.0088	0.76%
Be 313.042†	641.7	0.00137 mg/L		0.000046	0.00274 mg/L	0.000093	3.39%
Ca 317.933†	388385.2	50.82 mg/L		0.181	101.6 mg/L	0.36	0.36%
Cd 228.802†	85.1	0.00172 mg/L		0.000141	0.00343 mg/L	0.000282	8.22%
Co 228.616†	3926.0	0.07125 mg/L		0.000090	0.1425 mg/L	0.00018	0.13%
Cr 267.716†	893.1	0.2703 mg/L		0.00101	0.5406 mg/L	0.00203	0.37%
Cu 324.752†	46189.9	0.2599 mg/L		0.00107	0.5198 mg/L	0.00213	0.41%
Fe 273.955†	170141.4	166.2 mg/L		0.83	332.5 mg/L	1.66	0.50%
K 766.490†	13479.8	6.050 mg/L		0.0048	12.10 mg/L	0.010	0.08%
Mg 279.077†	52097.6	55.02 mg/L		0.251	110.0 mg/L	0.50	0.46%
Mn 257.610†	108409.7	3.128 mg/L		0.0147	6.257 mg/L	0.0293	0.47%
Mo 202.031†	48.1	0.00454 mg/L		0.000643	0.00908 mg/L	0.001286	14.17%
Na 589.592†	17741.2	3.126 mg/L		0.0105	6.253 mg/L	0.0210	0.34%
Na 330.237†	69.5	4.411 mg/L		0.1186	8.821 mg/L	0.2372	2.69%
Ni 231.604†	461.4	0.3006 mg/L		0.00331	0.6011 mg/L	0.00663	1.10%
Pb 220.353†	997.1	0.1694 mg/L		0.00108	0.3388 mg/L	0.00216	0.64%
Sb 206.836†	87.5	-0.00546 mg/L		0.001338	-0.01093 mg/L	0.002676	24.49%
Se 196.026†	-67.1	-0.01420 mg/L		0.005073	-0.02840 mg/L	0.010146	35.72%
Si 288.158†	5776.0	5.198 mg/L		0.0318	10.40 mg/L	0.064	0.61%
Sn 189.927†	-37.4	-0.00369 mg/L		0.000960	-0.00738 mg/L	0.001919	26.02%
Sr 421.552†	139114.7	0.3236 mg/L		0.00149	0.6473 mg/L	0.00298	0.46%
Ti 334.903†	125385.3	7.229 mg/L		0.0280	14.46 mg/L	0.056	0.39%
Tl 190.801†	0.3	-0.01903 mg/L		0.001369	-0.03806 mg/L	0.002738	7.20%
V 292.402†	46918.0	0.4328 mg/L		0.00266	0.8656 mg/L	0.00532	0.61%
Zn 206.200†	822.7	0.4204 mg/L		0.00117	0.8409 mg/L	0.00233	0.28%

Sequence No.: 51
 Sample ID: RG60 D SWC

Autosampler Location: 61
 Date Collected: 8/9/2010 5:28:02 PM
 Data Type: Original

Dilution: 2X

rem

Nebulizer Parameters: RG60 D SWC

Analyte Back Pressure Flow
 All 166.0 kPa 0.55 L/min

Mean Data: RG60 D SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2414197.8	112.0 %	0.30			0.27%
ScR 361.383	288575.4	121.1 %	0.22			0.18%
Ag 328.068†	-1611.7	0.00014 mg/L	0.000477	0.00028 mg/L	0.000954	340.44%
Al 308.215†	213431.4	175.3 mg/L	0.04	350.7 mg/L	0.09	0.02%
As 188.979†	40.2	0.03638 mg/L	0.002475	0.07275 mg/L	0.004950	6.80%
B 249.677†	56.4	0.02963 mg/L	0.001212	0.05925 mg/L	0.002423	4.09%
Ba 233.527†	3454.0	0.4802 mg/L	0.00333	0.9604 mg/L	0.00666	0.69%
Be 313.042†	864.0	0.00172 mg/L	0.000088	0.00343 mg/L	0.000176	5.13%
Ca 317.933†	550577.5	72.05 mg/L	0.150	144.1 mg/L	0.30	0.21%
Cd 228.802†	105.5	0.00215 mg/L	0.000035	0.00429 mg/L	0.000069	1.61%
Co 228.616†	6721.8	0.1354 mg/L	0.00041	0.2708 mg/L	0.00083	0.31%
Cr 267.716†	1058.9	0.3210 mg/L	0.00407	0.6419 mg/L	0.00815	1.27%
Cu 324.752†	111824.0	0.6209 mg/L	0.00086	1.242 mg/L	0.0017	0.14%
Fe 273.955†	279069.4	272.7 mg/L	1.15	545.3 mg/L	2.31	0.42%
K 766.490†	9141.6	4.103 mg/L	0.0253	8.206 mg/L	0.0506	0.62%
Mg 279.077†	89227.1	94.25 mg/L	0.139	188.5 mg/L	0.28	0.15%
Mn 257.610†	135495.2	3.910 mg/L	0.0020	7.820 mg/L	0.0041	0.05%
Mo 202.031†	42.2	0.00396 mg/L	0.000771	0.00793 mg/L	0.001542	19.45%
Na 589.592†	38784.2	6.834 mg/L	0.0246	13.67 mg/L	0.049	0.36%
Na 330.237†	166.0	8.375 mg/L	0.2139	16.75 mg/L	0.428	2.55%
Ni 231.604†	566.3	0.3689 mg/L	0.00253	0.7378 mg/L	0.00507	0.69%
Pb 220.353†	1178.4	0.1966 mg/L	0.00041	0.3931 mg/L	0.00082	0.21%
Sb 206.836†	130.0	-0.01032 mg/L	0.004350	-0.02064 mg/L	0.008699	42.15%
Se 196.026†	-84.9	-0.00866 mg/L	0.004221	-0.01732 mg/L	0.008442	48.75%
Si 288.158†	3150.2	2.844 mg/L	0.0210	5.688 mg/L	0.0421	0.74%
Sn 189.927†	-39.1	-0.00286 mg/L	0.001696	-0.00572 mg/L	0.003392	59.30%
Sr 421.552†	242384.6	0.5639 mg/L	0.00120	1.128 mg/L	0.0024	0.21%
Ti 334.903†	82442.4	4.752 mg/L	0.0043	9.503 mg/L	0.0086	0.09%
Tl 190.801†	-28.0	-0.03245 mg/L	0.001058	-0.06489 mg/L	0.002116	3.26%
V 292.402†	71265.3	0.6595 mg/L	0.00286	1.319 mg/L	0.0057	0.43%
Zn 206.200†	1091.9	0.5587 mg/L	0.00669	1.117 mg/L	0.0134	1.20%

Sequence No.: 52
 Sample ID: RG47 MBSPK SWC

Autosampler Location: 62
 Date Collected: 8/9/2010 5:33:52 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG47 MBSPK SWC

Analyte Back Pressure Flow
 All 167.0 kPa 0.55 L/min

Mean Data: RG47 MBSPK SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2448989.7	113.6	%	0.71			0.62%
ScR 361.383	280995.1	117.9	%	0.88			0.75%
Ag 328.068†	79580.1	0.4628	mg/L	0.00375	0.9256 mg/L	0.00750	0.81%
Al 308.215†	2412.6	1.975	mg/L	0.0231	3.950 mg/L	0.0461	1.17%
As 188.979†	2857.0	1.926	mg/L	0.0024	3.851 mg/L	0.0048	0.13%
B 249.677†	-6.8	-0.00514	mg/L	0.001001	-0.01027 mg/L	0.002003	19.49%
Ba 233.527†	13302.6	1.900	mg/L	0.0189	3.799 mg/L	0.0377	0.99%
Be 313.042†	119250.1	0.4916	mg/L	0.00117	0.9833 mg/L	0.00233	0.24%
Ca 317.933†	75572.8	9.889	mg/L	0.0185	19.78 mg/L	0.037	0.19%
Cd 228.802†	23888.1	0.4724	mg/L	0.00278	0.9449 mg/L	0.00556	0.59%
Co 228.616†	21706.7	0.4638	mg/L	0.00367	0.9276 mg/L	0.00733	0.79%
Cr 267.716†	1609.9	0.4853	mg/L	0.00432	0.9706 mg/L	0.00864	0.89%
Cu 324.752†	89824.4	0.4805	mg/L	0.00342	0.9610 mg/L	0.00684	0.71%
Fe 273.955†	2083.2	2.035	mg/L	0.0245	4.070 mg/L	0.0490	1.20%
K 766.490†	21223.5	9.525	mg/L	0.0577	19.05 mg/L	0.115	0.61%
Mg 279.077†	9460.9	10.01	mg/L	0.107	20.02 mg/L	0.215	1.07%
Mn 257.610†	16502.7	0.4769	mg/L	0.00480	0.9537 mg/L	0.00959	1.01%
Mo 202.031†	5.6	0.00046	mg/L	0.000231	0.00091 mg/L	0.000462	50.70%
Na 589.592†	52530.8	9.257	mg/L	0.0141	18.51 mg/L	0.028	0.15%
Na 330.237†	227.5	10.79	mg/L	0.198	21.57 mg/L	0.396	1.84%
Ni 231.604†	737.2	0.4793	mg/L	0.00498	0.9586 mg/L	0.00996	1.04%
Pb 220.353†	13516.0	1.893	mg/L	0.0167	3.786 mg/L	0.0334	0.88%
Sb 206.836†	1.4	-0.00634	mg/L	0.001107	-0.01268 mg/L	0.002214	17.47%
Se 196.026†	1923.5	1.942	mg/L	0.0112	3.884 mg/L	0.0224	0.58%
Si 288.158†	3.5	0.00497	mg/L	0.004337	0.00994 mg/L	0.008673	87.30%
Sn 189.927†	-11.8	-0.00258	mg/L	0.000487	-0.00515 mg/L	0.000975	18.92%
Sr 421.552†	208674.6	0.4855	mg/L	0.00239	0.9709 mg/L	0.00478	0.49%
Ti 334.903†	13.0	0.00025	mg/L	0.000259	0.00049 mg/L	0.000517	104.85%
Tl 190.801†	3594.7	1.894	mg/L	0.0076	3.788 mg/L	0.0153	0.40%
V 292.402†	49277.7	0.4820	mg/L	0.00311	0.9641 mg/L	0.00622	0.64%
Zn 206.200†	949.6	0.4828	mg/L	0.00491	0.9656 mg/L	0.00982	1.02%

Sequence No.: 53
Sample ID: RG42 MBSPK SWC

Autosampler Location: 63
Date Collected: 8/9/2010 5:39:55 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG42 MBSPK SWC

Analyte	Back Pressure	Flow
All	167.0 kPa	0.55 L/min

Mean Data: RG42 MBSPK SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2424194.3	112.5 %		0.15			0.14%
ScR 361.383	282162.8	118.4 %		0.45			0.38%
Ag 328.068†	78456.0	0.4563 mg/L		0.00336	0.9126 mg/L	0.00672	0.74%
Al 308.215†	2311.9	1.892 mg/L		0.0234	3.785 mg/L	0.0468	1.24%
As 188.979†	2813.0	1.896 mg/L		0.0145	3.792 mg/L	0.0290	0.77%
B 249.677†	-3.5	-0.00334 mg/L		0.000352	-0.00669 mg/L	0.000704	10.53%
Ba 233.527†	13028.1	1.861 mg/L		0.0127	3.721 mg/L	0.0253	0.68%
Be 313.042†	118187.1	0.4873 mg/L		0.00266	0.9745 mg/L	0.00532	0.55%
Ca 317.933†	74788.1	9.787 mg/L		0.0522	19.57 mg/L	0.104	0.53%
Cd 228.802†	23418.7	0.4631 mg/L		0.00361	0.9263 mg/L	0.00722	0.78%
Co 228.616†	21376.2	0.4568 mg/L		0.00475	0.9135 mg/L	0.00950	1.04%
Cr 267.716†	1566.3	0.4722 mg/L		0.00284	0.9443 mg/L	0.00568	0.60%
Cu 324.752†	86987.2	0.4653 mg/L		0.00281	0.9306 mg/L	0.00561	0.60%
Fe 273.955†	1997.8	1.952 mg/L		0.0115	3.903 mg/L	0.0230	0.59%
K 766.490†	20672.7	9.278 mg/L		0.0252	18.56 mg/L	0.050	0.27%
Mg 279.077†	9245.6	9.782 mg/L		0.0571	19.56 mg/L	0.114	0.58%
Mn 257.610†	16320.5	0.4716 mg/L		0.00197	0.9432 mg/L	0.00395	0.42%
Mo 202.031†	5.8	0.00048 mg/L		0.000175	0.00097 mg/L	0.000350	36.24%
Na 589.592†	51416.9	9.060 mg/L		0.0218	18.12 mg/L	0.044	0.24%
Na 330.237†	217.9	10.33 mg/L		0.054	20.65 mg/L	0.108	0.52%
Ni 231.604†	721.0	0.4688 mg/L		0.00430	0.9375 mg/L	0.00860	0.92%
Pb 220.353†	13265.5	1.858 mg/L		0.0129	3.716 mg/L	0.0258	0.70%
Sb 206.836†	-1.9	-0.00788 mg/L		0.000664	-0.01576 mg/L	0.001328	8.43%
Se 196.026†	1881.0	1.899 mg/L		0.0105	3.798 mg/L	0.0210	0.55%
Si 288.158†	4.0	0.00537 mg/L		0.003123	0.01074 mg/L	0.006247	58.18%
Sn 189.927†	-12.5	-0.00277 mg/L		0.000803	-0.00555 mg/L	0.001605	28.94%
Sr 421.552†	204864.9	0.4766 mg/L		0.00287	0.9532 mg/L	0.00575	0.60%
Ti 334.903†	7.3	-0.00007 mg/L		0.000373	-0.00015 mg/L	0.000746	510.98%
Tl 190.801†	3530.6	1.860 mg/L		0.0109	3.720 mg/L	0.0217	0.58%
V 292.402†	48600.0	0.4754 mg/L		0.00276	0.9508 mg/L	0.00553	0.58%
Zn 206.200†	918.1	0.4668 mg/L		0.00325	0.9336 mg/L	0.00651	0.70%

Sequence No.: 54

Autosampler Location: 7

Sample ID: CV *6*

Date Collected: 8/9/2010 5:45:58 PM

Dilution: 1X

Data Type: Original

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	166.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2368389.5	109.9 %		0.76			0.69%
ScR 361.383	284101.4	119.2 %		0.67			0.56%
Ag 328.068†	157089.0	0.9135 mg/L		0.00382	0.9135 mg/L	0.00382	0.42%
Al 308.215†	2354.7	1.898 mg/L		0.0099	1.898 mg/L	0.0099	0.52%
As 188.979†	2841.0	1.914 mg/L		0.0178	1.914 mg/L	0.0178	0.93%
B 249.677†	1698.8	0.9070 mg/L		0.00735	0.9070 mg/L	0.00735	0.81%
Ba 233.527†	6523.5	0.9313 mg/L		0.00831	0.9313 mg/L	0.00831	0.89%
Be 313.042†	231387.2	0.9539 mg/L		0.00391	0.9539 mg/L	0.00391	0.41%
Ca 317.933†	15207.5	1.990 mg/L		0.0190	1.990 mg/L	0.0190	0.95%
Cd 228.802†	48711.5	0.9670 mg/L		0.00561	0.9670 mg/L	0.00561	0.58%
Co 228.616†	43930.1	0.9381 mg/L		0.00524	0.9381 mg/L	0.00524	0.56%
Cr 267.716†	3130.7	0.9443 mg/L		0.00884	0.9443 mg/L	0.00884	0.94%
Cu 324.752†	188128.8	1.006 mg/L		0.0070	1.006 mg/L	0.0070	0.69%
Fe 273.955†	1935.9	1.891 mg/L		0.0223	1.891 mg/L	0.0223	1.18%
K 766.490†	40825.1	18.32 mg/L		0.041	18.32 mg/L	0.041	0.22%
Mg 279.077†	1819.4	1.928 mg/L		0.0123	1.928 mg/L	0.0123	0.64%
Mn 257.610†	32312.2	0.9332 mg/L		0.00845	0.9332 mg/L	0.00845	0.91%
Mo 202.031†	9727.6	0.9276 mg/L		0.00857	0.9276 mg/L	0.00857	0.92%
Na 589.592†	253087.2	44.60 mg/L		0.151	44.60 mg/L	0.151	0.34%
Na 330.237†	987.3	47.63 mg/L		0.157	47.63 mg/L	0.157	0.33%
Ni 231.604†	1449.7	0.9449 mg/L		0.00575	0.9449 mg/L	0.00575	0.61%
Pb 220.353†	13523.1	1.895 mg/L		0.0131	1.895 mg/L	0.0131	0.69%
Sb 206.836†	3795.1	2.038 mg/L		0.0201	2.038 mg/L	0.0201	0.99%
Se 196.026†	1895.9	1.913 mg/L		0.0217	1.913 mg/L	0.0217	1.13%
Si 288.158†	2248.5	2.023 mg/L		0.0222	2.023 mg/L	0.0222	1.09%
Sn 189.927†	3073.6	0.8816 mg/L		0.00925	0.8816 mg/L	0.00925	1.05%
Sr 421.552†	408456.9	0.9502 mg/L		0.00209	0.9502 mg/L	0.00209	0.22%
Ti 334.903†	16237.7	0.9352 mg/L		0.00040	0.9352 mg/L	0.00040	0.04%
Tl 190.801†	3540.5	1.859 mg/L		0.0195	1.859 mg/L	0.0195	1.05%
V 292.402†	96617.9	0.9504 mg/L		0.00723	0.9504 mg/L	0.00723	0.76%
Zn 206.200†	1889.9	0.9596 mg/L		0.00973	0.9596 mg/L	0.00973	1.01%

Sequence No.: 55
 Sample ID: CB 6

Autosampler Location: 1
 Date Collected: 8/9/2010 5:51:59 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 167.0 kPa 0.55 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2252717.5	104.5 %		9.90			9.47%
ScR 361.383	280891.8	117.9 %		0.16			0.14%
Ag 328.068†	35.4	0.00021 mg/L		0.000125	0.00021 mg/L	0.000125	60.90%
Al 308.215†	24.3	0.01993 mg/L		0.011489	0.01993 mg/L	0.011489	57.64%
As 188.979†	3.3	0.00220 mg/L		0.003713	0.00220 mg/L	0.003713	168.43%
B 249.677†	1.7	0.00092 mg/L		0.003216	0.00092 mg/L	0.003216	349.65%
Ba 233.527†	-4.4	-0.00063 mg/L		0.000294	-0.00063 mg/L	0.000294	46.38%
Be 313.042†	-20.8	-0.00009 mg/L		0.000050	-0.00009 mg/L	0.000050	57.74%
Ca 317.933†	25.0	0.00327 mg/L		0.001768	0.00327 mg/L	0.001768	54.04%
Cd 228.802†	9.1	0.00018 mg/L		0.000592	0.00018 mg/L	0.000592	333.29%
Co 228.616†	-9.0	-0.00019 mg/L		0.000448	-0.00019 mg/L	0.000448	231.03%
Cr 267.716†	-3.6	-0.00109 mg/L		0.001794	-0.00109 mg/L	0.001794	164.11%
Cu 324.752†	-110.7	-0.00059 mg/L		0.001250	-0.00059 mg/L	0.001250	211.17%
Fe 273.955†	0.1	0.00006 mg/L		0.000574	0.00006 mg/L	0.000574	908.57%
K 766.490†	-234.4	-0.1052 mg/L		0.00764	-0.1052 mg/L	0.00764	7.26%
Mg 279.077†	-0.8	-0.00089 mg/L		0.004351	-0.00089 mg/L	0.004351	488.88%
Mn 257.610†	-2.1	-0.00006 mg/L		0.000055	-0.00006 mg/L	0.000055	93.79%
Mo 202.031†	-1.9	-0.00018 mg/L		0.000070	-0.00018 mg/L	0.000070	38.36%
Na 589.592†	125.5	0.02212 mg/L		0.001497	0.02212 mg/L	0.001497	6.77%
Na 330.237†	17.3	0.8378 mg/L		0.33055	0.8378 mg/L	0.33055	39.45%
Ni 231.604†	4.0	0.00263 mg/L		0.000239	0.00263 mg/L	0.000239	9.07%
Pb 220.353†	11.4	0.00161 mg/L		0.004739	0.00161 mg/L	0.004739	295.20%
Sb 206.836†	-5.0	-0.00265 mg/L		0.008842	-0.00265 mg/L	0.008842	333.76%
Se 196.026†	0.8	0.00078 mg/L		0.008115	0.00078 mg/L	0.008115	>999.9%
Si 288.158†	4.1	0.00368 mg/L		0.000964	0.00368 mg/L	0.000964	26.24%
Sn 189.927†	1.2	0.00033 mg/L		0.000258	0.00033 mg/L	0.000258	77.65%
Sr 421.552†	-49.9	-0.00012 mg/L		0.000074	-0.00012 mg/L	0.000074	63.72%
Ti 334.903†	5.4	0.00031 mg/L		0.001079	0.00031 mg/L	0.001079	343.35%
Tl 190.801†	4.6	0.00244 mg/L		0.000601	0.00244 mg/L	0.000601	24.59%
V 292.402†	5.1	0.00004 mg/L		0.000280	0.00004 mg/L	0.000280	675.55%
Zn 206.200†	2.2	0.00112 mg/L		0.001381	0.00112 mg/L	0.001381	122.87%

Sequence No.: 56
Sample ID: RG60 MB1 SWC

Autosampler Location: 64
Date Collected: 8/9/2010 5:57:57 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG60 MB1 SWC

Analyte	Back Pressure	Flow
All	166.0 kPa	0.55 L/min

Mean Data: RG60 MB1 SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2408531.5	111.8 %		0.30			0.26%
ScR 361.383	278066.6	116.7 %		0.74			0.63%
Ag 328.068†	46.4	0.00027 mg/L		0.000092	0.00054 mg/L	0.000183	33.89%
Al 308.215†	33.4	0.02744 mg/L		0.010505	0.05487 mg/L	0.021010	38.29%
As 188.979†	2.3	0.00157 mg/L		0.001044	0.00313 mg/L	0.002089	66.64%
B 249.677†	-2.8	-0.00150 mg/L		0.002462	-0.00301 mg/L	0.004923	163.82%
Ba 233.527†	-3.8	-0.00055 mg/L		0.000125	-0.00110 mg/L	0.000250	22.75%
Be 313.042†	-34.5	-0.00014 mg/L		0.000047	-0.00029 mg/L	0.000094	33.08%
Ca 317.933†	95.1	0.01245 mg/L		0.001105	0.02489 mg/L	0.002210	8.88%
Cd 228.802†	-5.0	-0.00010 mg/L		0.000055	-0.00020 mg/L	0.000109	54.18%
Co 228.616†	0.6	0.00001 mg/L		0.000059	0.00002 mg/L	0.000117	478.67%
Cr 267.716†	2.1	0.00065 mg/L		0.000496	0.00129 mg/L	0.000991	76.56%
Cu 324.752†	-368.5	-0.00197 mg/L		0.000097	-0.00394 mg/L	0.000193	4.91%
Fe 273.955†	3.1	0.00301 mg/L		0.001057	0.00601 mg/L	0.002113	35.13%
K 766.490†	-225.5	-0.1012 mg/L		0.00631	-0.2024 mg/L	0.01262	6.24%
Mg 279.077†	4.1	0.00438 mg/L		0.009743	0.00877 mg/L	0.019486	222.31%
Mn 257.610†	-4.1	-0.00012 mg/L		0.000053	-0.00024 mg/L	0.000107	44.56%
Mo 202.031†	-6.7	-0.00064 mg/L		0.000374	-0.00128 mg/L	0.000749	58.45%
Na 589.592†	-32.4	-0.00571 mg/L		0.003541	-0.01143 mg/L	0.007082	61.96%
Na 330.237†	21.5	1.042 mg/L		0.4243	2.084 mg/L	0.8485	40.72%
Ni 231.604†	4.5	0.00292 mg/L		0.001441	0.00583 mg/L	0.002882	49.43%
Pb 220.353†	-11.9	-0.00166 mg/L		0.000136	-0.00331 mg/L	0.000273	8.24%
Sb 206.836†	-11.8	-0.00638 mg/L		0.001403	-0.01277 mg/L	0.002806	21.98%
Se 196.026†	9.3	0.00942 mg/L		0.003639	0.01883 mg/L	0.007278	38.64%
Si 288.158†	9.1	0.00814 mg/L		0.001256	0.01629 mg/L	0.002512	15.43%
Sn 189.927†	-3.7	-0.00105 mg/L		0.001052	-0.00209 mg/L	0.002104	100.50%
Sr 421.552†	-60.5	-0.00014 mg/L		0.000134	-0.00028 mg/L	0.000269	95.56%
Ti 334.903†	-0.0	0.00000 mg/L		0.001599	0.00000 mg/L	0.003198	>999.9%
Tl 190.801†	3.8	0.00201 mg/L		0.002390	0.00402 mg/L	0.004781	119.05%
V 292.402†	0.8	0.00001 mg/L		0.000164	0.00001 mg/L	0.000327	>999.9%
Zn 206.200†	1.0	0.00052 mg/L		0.001441	0.00104 mg/L	0.002882	278.33%

Sequence No.: 57
 Sample ID: RG76 Q SWC

Autosampler Location: 65
 Date Collected: 8/9/2010 6:03:59 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG76 Q SWC

Analyte Back Pressure Flow
 All 167.0 kPa 0.55 L/min

Ren

Mean Data: RG76 Q SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
ScA 357.253	2333023.2	108.3 %		0.14				0.13%
ScR 361.383	278880.2	117.0 %		0.64				0.55%
Ag 328.068†	42099.0	0.2549 mg/L		0.00261	0.5097 mg/L	0.00523		1.03%
Al 308.215†	76621.5	62.93 mg/L		0.190	125.9 mg/L	0.38		0.30%
As 188.979†	58.6	0.04762 mg/L		0.005122	0.09524 mg/L	0.010244		10.76%
B 249.677†	114.3	0.06067 mg/L		0.000773	0.1213 mg/L	0.00155		1.27%
Ba 233.527†	4257.7	0.5950 mg/L		0.00284	1.190 mg/L	0.0057		0.48%
Be 313.042†	336.6	0.00047 mg/L		0.000075	0.00095 mg/L	0.000150		15.80%
Ca 317.933†	345050.6	45.15 mg/L		0.163	90.30 mg/L	0.326		0.36%
Cd 228.802†	99902.9	1.990 mg/L		0.0183	3.980 mg/L	0.0366		0.92%
Co 228.616†	3315.1	0.06266 mg/L		0.000389	0.1253 mg/L	0.00078		0.62%
Cr 267.716†	4183.8	1.266 mg/L		0.0048	2.532 mg/L	0.0096		0.38%
Cu 324.752†	705241.2	3.793 mg/L		0.0076	7.586 mg/L	0.0152		0.20%
Fe 273.955†	282262.4	275.8 mg/L		1.38	551.6 mg/L	2.76		0.50%
K 766.490†	7074.5	3.175 mg/L		0.0086	6.350 mg/L	0.0172		0.27%
Mg 279.077†	24993.8	26.28 mg/L		0.102	52.57 mg/L	0.203		0.39%
Mn 257.610†	77448.1	2.237 mg/L		0.0093	4.474 mg/L	0.0187		0.42%
Mo 202.031†	757.4	0.07111 mg/L		0.000415	0.1422 mg/L	0.00083		0.58%
Na 589.592†	16535.1	2.914 mg/L		0.0103	5.827 mg/L	0.0206		0.35%
Na 330.237†	157.6	3.237 mg/L		0.1416	6.474 mg/L	0.2832		4.38%
Ni 231.604†	749.2	0.4880 mg/L		0.00487	0.9760 mg/L	0.00975		1.00%
Pb 220.353†	44915.9	6.288 mg/L		0.0517	12.58 mg/L	0.103		0.82%
Sb 206.836†	141.5	0.00583 mg/L		0.001212	0.01167 mg/L	0.002423		20.77%
Se 196.026†	-68.2	-0.01223 mg/L		0.002270	-0.02445 mg/L	0.004539		18.56%
Si 288.158†	4622.0	4.158 mg/L		0.0170	8.317 mg/L	0.0341		0.41%
Sn 189.927†	480.5	0.1427 mg/L		0.00174	0.2854 mg/L	0.00349		1.22%
Sr 421.552†	89953.2	0.2093 mg/L		0.00083	0.4185 mg/L	0.00166		0.40%
Ti 334.903†	80929.9	4.665 mg/L		0.0152	9.330 mg/L	0.0305		0.33%
Tl 190.801†	-32.1	-0.03016 mg/L		0.001553	-0.06033 mg/L	0.003105		5.15%
V 292.402†	33889.3	0.3020 mg/L		0.00196	0.6040 mg/L	0.00392		0.65%
Zn 206.200†	31466.2	15.99 mg/L		0.061	31.98 mg/L	0.123		0.38%

Sequence No.: 58
Sample ID: RG60 E SWC

Autosampler Location: 66
Date Collected: 8/9/2010 6:10:04 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG60 E SWC

Analyte	Back Pressure	Flow
All	167.0 kPa	0.55 L/min

Mean Data: RG60 E SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2408574.0	111.8 %		0.65			0.58%
ScR 361.383	284998.9	119.6 %		0.63			0.53%
Ag 328.068†	-840.4	0.00021 mg/L		0.000159	0.00042 mg/L	0.000317	75.32%
Al 308.215†	127196.5	104.5 mg/L		0.26	209.0 mg/L	0.52	0.25%
As 188.979†	26.2	0.03056 mg/L		0.003722	0.06112 mg/L	0.007444	12.18%
B 249.677†	29.1	0.01522 mg/L		0.002073	0.03044 mg/L	0.004147	13.62%
Ba 233.527†	2851.7	0.4002 mg/L		0.00393	0.8003 mg/L	0.00787	0.98%
Be 313.042†	565.2	0.00124 mg/L		0.000022	0.00247 mg/L	0.000045	1.82%
Ca 317.933†	313443.3	41.02 mg/L		0.134	82.03 mg/L	0.268	0.33%
Cd 228.802†	113.6	0.00232 mg/L		0.000141	0.00464 mg/L	0.000282	6.07%
Co 228.616†	3674.4	0.06702 mg/L		0.000582	0.1340 mg/L	0.00116	0.87%
Cr 267.716†	1128.5	0.3412 mg/L		0.00366	0.6825 mg/L	0.00732	1.07%
Cu 324.752†	23753.4	0.1385 mg/L		0.00124	0.2770 mg/L	0.00247	0.89%
Fe 273.955†	151358.1	147.9 mg/L		0.59	295.8 mg/L	1.17	0.40%
K 766.490†	10118.8	4.541 mg/L		0.0240	9.083 mg/L	0.0480	0.53%
Mg 279.077†	46986.5	49.63 mg/L		0.106	99.25 mg/L	0.212	0.21%
Mn 257.610†	83200.3	2.401 mg/L		0.0023	4.802 mg/L	0.0046	0.10%
Mo 202.031†	45.8	0.00432 mg/L		0.000201	0.00864 mg/L	0.000403	4.66%
Na 589.592†	9658.0	1.702 mg/L		0.0054	3.404 mg/L	0.0108	0.32%
Na 330.237†	42.3	3.062 mg/L		0.1986	6.124 mg/L	0.3972	6.49%
Ni 231.604†	505.2	0.3291 mg/L		0.00477	0.6581 mg/L	0.00955	1.45%
Pb 220.353†	88.4	0.03265 mg/L		0.000161	0.06529 mg/L	0.000323	0.49%
Sb 206.836†	63.4	-0.00873 mg/L		0.002100	-0.01745 mg/L	0.004200	24.07%
Se 196.026†	-50.8	-0.00805 mg/L		0.001690	-0.01609 mg/L	0.003380	21.00%
Si 288.158†	4065.6	3.661 mg/L		0.0336	7.321 mg/L	0.0672	0.92%
Sn 189.927†	-33.7	-0.00354 mg/L		0.001101	-0.00708 mg/L	0.002202	31.11%
Sr 421.552†	111246.9	0.2588 mg/L		0.00045	0.5176 mg/L	0.00090	0.17%
Ti 334.903†	114380.3	6.595 mg/L		0.0104	13.19 mg/L	0.021	0.16%
Tl 190.801†	-2.1	-0.01793 mg/L		0.002457	-0.03586 mg/L	0.004914	13.70%
V 292.402†	40068.8	0.3692 mg/L		0.00285	0.7385 mg/L	0.00569	0.77%
Zn 206.200†	600.2	0.3070 mg/L		0.00249	0.6139 mg/L	0.00497	0.81%

Sequence No.: 59
Sample ID: RG60 F SWC

Autosampler Location: 67
Date Collected: 8/9/2010 6:16:06 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG60 F SWC

Analyte Back Pressure Flow
All 167.0 kPa 0.55 L/min

Mean Data: RG60 F SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2421848.7	112.4 %	%	0.36			0.32%
ScR 361.383	290390.1	121.9 %	%	1.44			1.18%
Ag 328.068†	-818.6	0.00008 mg/L	mg/L	0.000276	0.00017 mg/L	0.000552	328.09%
Al 308.215†	128868.5	105.9 mg/L	mg/L	0.18	211.7 mg/L	0.36	0.17%
As 188.979†	9.0	0.02107 mg/L	mg/L	0.002966	0.04215 mg/L	0.005931	14.07%
B 249.677†	39.6	0.02092 mg/L	mg/L	0.004934	0.04184 mg/L	0.009867	23.58%
Ba 233.527†	2377.1	0.3325 mg/L	mg/L	0.00214	0.6650 mg/L	0.00428	0.64%
Be 313.042†	517.4	0.00098 mg/L	mg/L	0.000065	0.00197 mg/L	0.000131	6.65%
Ca 317.933†	408011.9	53.39 mg/L	mg/L	0.192	106.8 mg/L	0.38	0.36%
Cd 228.802†	40.7	0.00088 mg/L	mg/L	0.000067	0.00176 mg/L	0.000133	7.56%
Co 228.616†	3198.9	0.05509 mg/L	mg/L	0.000209	0.1102 mg/L	0.00042	0.38%
Cr 267.716†	963.0	0.2910 mg/L	mg/L	0.00331	0.5820 mg/L	0.00663	1.14%
Cu 324.752†	19359.1	0.1145 mg/L	mg/L	0.00022	0.2289 mg/L	0.00045	0.20%
Fe 273.955†	148200.6	144.8 mg/L	mg/L	0.50	289.6 mg/L	0.99	0.34%
K 766.490†	10534.4	4.728 mg/L	mg/L	0.0216	9.456 mg/L	0.0432	0.46%
Mg 279.077†	48564.9	51.30 mg/L	mg/L	0.100	102.6 mg/L	0.20	0.19%
Mn 257.610†	90718.4	2.618 mg/L	mg/L	0.0033	5.236 mg/L	0.0065	0.12%
Mo 202.031†	83.0	0.00788 mg/L	mg/L	0.000231	0.01575 mg/L	0.000461	2.93%
Na 589.592†	18794.5	3.312 mg/L	mg/L	0.0109	6.624 mg/L	0.0218	0.33%
Na 330.237†	74.3	4.757 mg/L	mg/L	0.1135	9.514 mg/L	0.2270	2.39%
Ni 231.604†	467.2	0.3043 mg/L	mg/L	0.00141	0.6086 mg/L	0.00281	0.46%
Pb 220.353†	198.2	0.04854 mg/L	mg/L	0.001067	0.09707 mg/L	0.002133	2.20%
Sb 206.836†	56.0	-0.01024 mg/L	mg/L	0.001906	-0.02047 mg/L	0.003813	18.62%
Se 196.026†	-44.7	-0.00234 mg/L	mg/L	0.001736	-0.00468 mg/L	0.003471	74.11%
Si 288.158†	4081.3	3.675 mg/L	mg/L	0.0299	7.350 mg/L	0.0599	0.81%
Sn 189.927†	-44.7	-0.00558 mg/L	mg/L	0.001952	-0.01116 mg/L	0.003905	34.99%
Sr 421.552†	102203.2	0.2378 mg/L	mg/L	0.00065	0.4755 mg/L	0.00130	0.27%
Ti 334.903†	132183.6	7.621 mg/L	mg/L	0.0089	15.24 mg/L	0.018	0.12%
Tl 190.801†	1.5	-0.01803 mg/L	mg/L	0.002084	-0.03606 mg/L	0.004168	11.56%
V 292.402†	41691.0	0.3842 mg/L	mg/L	0.00081	0.7685 mg/L	0.00162	0.21%
Zn 206.200†	522.7	0.2680 mg/L	mg/L	0.00326	0.5360 mg/L	0.00652	1.22%

Sequence No.: 60
Sample ID: RG60 ADUP SWC

Autosampler Location: 68
Date Collected: 8/9/2010 6:22:09 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG60 ADUP SWC

Analyte Back Pressure Flow
All 167.0 kPa 0.55 L/min

Mean Data: RG60 ADUP SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2395641.2	111.2	%	0.42			0.38%
ScR 361.383	284807.2	119.5	%	0.33			0.28%
Ag 328.068†	-744.3	0.00061	mg/L	0.000417	0.00123	0.000833	67.86%
Al 308.215†	190207.2	156.3	mg/L	0.42	312.5	0.83	0.27%
As 188.979†	148.4	0.1120	mg/L	0.00324	0.2239	0.00647	2.89%
B 249.677†	34.1	0.01797	mg/L	0.003338	0.03593	0.006677	18.58%
Ba 233.527†	5896.1	0.8353	mg/L	0.00379	1.671	0.0076	0.45%
Be 313.042†	761.4	0.00208	mg/L	0.000050	0.00416	0.000100	2.41%
Ca 317.933†	225960.6	29.57	mg/L	0.090	59.14	0.180	0.30%
Cd 228.802†	245.5	0.00478	mg/L	0.000030	0.00957	0.000059	0.62%
Co 228.616†	2912.8	0.05150	mg/L	0.000419	0.1030	0.00084	0.81%
Cr 267.716†	939.6	0.2848	mg/L	0.00109	0.5696	0.00217	0.38%
Cu 324.752†	44716.0	0.2501	mg/L	0.00062	0.5003	0.00124	0.25%
Fe 273.955†	145254.9	141.9	mg/L	1.23	283.9	2.47	0.87%
K 766.490†	8597.0	3.858	mg/L	0.0061	7.717	0.0123	0.16%
Mg 279.077†	30993.2	32.71	mg/L	0.113	65.42	0.227	0.35%
Mn 257.610†	85608.0	2.470	mg/L	0.0057	4.941	0.0114	0.23%
Mo 202.031†	61.0	0.00574	mg/L	0.000442	0.01148	0.000884	7.70%
Na 589.592†	6989.5	1.232	mg/L	0.0026	2.463	0.0052	0.21%
Na 330.237†	34.4	2.484	mg/L	0.1637	4.967	0.3274	6.59%
Ni 231.604†	427.4	0.2784	mg/L	0.00114	0.5568	0.00228	0.41%
Pb 220.353†	4246.9	0.6296	mg/L	0.00157	1.259	0.0031	0.25%
Sb 206.836†	93.9	-0.00332	mg/L	0.002569	-0.00665	0.005137	77.28%
Se 196.026†	-57.1	-0.00498	mg/L	0.003962	-0.00997	0.007924	79.51%
Si 288.158†	7230.3	6.502	mg/L	0.0490	13.00	0.098	0.75%
Sn 189.927†	-6.9	0.00285	mg/L	0.001178	0.00569	0.002356	41.39%
Sr 421.552†	86029.8	0.2001	mg/L	0.00064	0.4003	0.00127	0.32%
Ti 334.903†	105543.1	6.085	mg/L	0.0118	12.17	0.024	0.19%
Tl 190.801†	0.9	-0.01541	mg/L	0.001659	-0.03082	0.003317	10.76%
V 292.402†	39101.1	0.3606	mg/L	0.00151	0.7212	0.00303	0.42%
Zn 206.200†	1623.0	0.8261	mg/L	0.00625	1.652	0.0125	0.76%

Sequence No.: 61
Sample ID: RG60 A SWC

Autosampler Location: 69
Date Collected: 8/9/2010 6:28:10 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG60 A SWC

Analyte Back Pressure Flow
All 167.0 kPa 0.55 L/min

Mean Data: RG60 A SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2394921.6	111.1 %	1.05			0.95%
ScR 361.383	282281.1	118.5 %	0.94			0.79%
Ag 328.068†	-725.7	0.00047 mg/L	0.000300	0.00094 mg/L	0.000600	64.07%
Al 308.215†	191334.7	157.2 mg/L	0.23	314.4 mg/L	0.47	0.15%
As 188.979†	149.8	0.1133 mg/L	0.00088	0.2265 mg/L	0.00176	0.78%
B 249.677†	37.8	0.01994 mg/L	0.001505	0.03987 mg/L	0.003010	7.55%
Ba 233.527†	5957.1	0.8443 mg/L	0.00461	1.689 mg/L	0.0092	0.55%
Be 313.042†	785.2	0.00219 mg/L	0.000050	0.00438 mg/L	0.000099	2.27%
Ca 317.933†	241334.5	31.58 mg/L	0.141	63.16 mg/L	0.283	0.45%
Cd 228.802†	246.2	0.00480 mg/L	0.000135	0.00960 mg/L	0.000271	2.82%
Co 228.616†	2912.2	0.05110 mg/L	0.000844	0.1022 mg/L	0.00169	1.65%
Cr 267.716†	1140.5	0.3452 mg/L	0.00206	0.6904 mg/L	0.00413	0.60%
Cu 324.752†	46303.6	0.2580 mg/L	0.00232	0.5160 mg/L	0.00464	0.90%
Fe 273.955†	138803.7	135.6 mg/L	0.60	271.2 mg/L	1.20	0.44%
K 766.490†	8317.9	3.733 mg/L	0.0164	7.466 mg/L	0.0329	0.44%
Mg 279.077†	30986.8	32.71 mg/L	0.107	65.41 mg/L	0.215	0.33%
Mn 257.610†	84031.8	2.425 mg/L	0.0035	4.850 mg/L	0.0071	0.15%
Mo 202.031†	54.6	0.00512 mg/L	0.000233	0.01024 mg/L	0.000466	4.55%
Na 589.592†	6853.8	1.208 mg/L	0.0035	2.415 mg/L	0.0070	0.29%
Na 330.237†	32.4	2.422 mg/L	0.1591	4.844 mg/L	0.3183	6.57%
Ni 231.604†	442.9	0.2885 mg/L	0.00260	0.5771 mg/L	0.00520	0.90%
Pb 220.353†	3989.3	0.5944 mg/L	0.00899	1.189 mg/L	0.0180	1.51%
Sb 206.836†	91.3	-0.00464 mg/L	0.001671	-0.00927 mg/L	0.003343	36.05%
Se 196.026†	-51.9	-0.00058 mg/L	0.006351	-0.00116 mg/L	0.012702	>999.9%
Si 288.158†	6000.5	5.397 mg/L	0.0342	10.79 mg/L	0.068	0.63%
Sn 189.927†	-7.7	0.00282 mg/L	0.001356	0.00564 mg/L	0.002712	48.11%
Sr 421.552†	90258.7	0.2100 mg/L	0.00058	0.4199 mg/L	0.00115	0.27%
Ti 334.903†	109392.2	6.307 mg/L	0.0107	12.61 mg/L	0.021	0.17%
Tl 190.801†	2.6	-0.01482 mg/L	0.001877	-0.02965 mg/L	0.003753	12.66%
V 292.402†	38544.9	0.3561 mg/L	0.00293	0.7122 mg/L	0.00586	0.82%
Zn 206.200†	1626.1	0.8276 mg/L	0.00274	1.655 mg/L	0.0055	0.33%

Sequence No.: 62
Sample ID: RG60 ASPK SWC

Autosampler Location: 70
Date Collected: 8/9/2010 6:34:12 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG60 ASPK SWC

Analyte	Back Pressure	Flow
All	167.0 kPa	0.55 L/min

Mean Data: RG60 ASPK SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2324406.4	107.9 %		0.27			0.25%
ScR 361.383	278625.9	116.9 %		1.80			1.54%
Ag 328.068†	80141.3	0.4711 mg/L		0.00261	0.9421 mg/L	0.00522	0.55%
Al 308.215†	199561.2	163.9 mg/L		3.00	327.9 mg/L	5.99	1.83%
As 188.979†	2974.7	2.017 mg/L		0.0177	4.035 mg/L	0.0354	0.88%
B 249.677†	44.1	0.02183 mg/L		0.000702	0.04365 mg/L	0.001405	3.22%
Ba 233.527†	18646.7	2.656 mg/L		0.0488	5.312 mg/L	0.0977	1.84%
Be 313.042†	121453.0	0.4996 mg/L		0.00982	0.9993 mg/L	0.01965	1.97%
Ca 317.933†	302808.8	39.62 mg/L		0.760	79.25 mg/L	1.521	1.92%
Cd 228.802†	24405.2	0.4827 mg/L		0.00272	0.9653 mg/L	0.00545	0.56%
Co 228.616†	24325.8	0.5086 mg/L		0.00406	1.017 mg/L	0.0081	0.80%
Cr 267.716†	2555.2	0.7717 mg/L		0.01251	1.543 mg/L	0.0250	1.62%
Cu 324.752†	141334.4	0.7670 mg/L		0.00167	1.534 mg/L	0.0033	0.22%
Fe 273.955†	148604.6	145.2 mg/L		2.21	290.4 mg/L	4.42	1.52%
K 766.490†	28608.6	12.84 mg/L		0.236	25.68 mg/L	0.472	1.84%
Mg 279.077†	43517.9	45.96 mg/L		0.937	91.92 mg/L	1.875	2.04%
Mn 257.610†	102773.4	2.966 mg/L		0.0570	5.933 mg/L	0.1140	1.92%
Mo 202.031†	63.1	0.00587 mg/L		0.000247	0.01173 mg/L	0.000494	4.21%
Na 589.592†	59745.7	10.53 mg/L		0.199	21.06 mg/L	0.398	1.89%
Na 330.237†	228.6	11.72 mg/L		0.252	23.45 mg/L	0.504	2.15%
Ni 231.604†	1160.3	0.7549 mg/L		0.01150	1.510 mg/L	0.0230	1.52%
Pb 220.353†	16972.4	2.414 mg/L		0.0155	4.827 mg/L	0.0311	0.64%
Sb 206.836†	108.3	-0.00383 mg/L		0.002249	-0.00767 mg/L	0.004498	58.68%
Se 196.026†	1825.9	1.898 mg/L		0.0114	3.795 mg/L	0.0227	0.60%
Si 288.158†	5422.2	4.880 mg/L		0.0915	9.759 mg/L	0.1831	1.88%
Sn 189.927†	-18.6	0.00050 mg/L		0.001493	0.00100 mg/L	0.002986	297.18%
Sr 421.552†	302442.3	0.7036 mg/L		0.01336	1.407 mg/L	0.0267	1.90%
Ti 334.903†	109719.7	6.326 mg/L		0.1237	12.65 mg/L	0.247	1.96%
Tl 190.801†	3506.9	1.831 mg/L		0.0146	3.663 mg/L	0.0291	0.80%
V 292.402†	89739.8	0.8555 mg/L		0.00087	1.711 mg/L	0.0017	0.10%
Zn 206.200†	2468.4	1.256 mg/L		0.0259	2.512 mg/L	0.0519	2.06%

Sequence No.: 63
 Sample ID: RG60 APOST SWC

Autosampler Location: 71
 Date Collected: 8/9/2010 6:40:04 PM
 Data Type: Original

Dilution: 2X

*zzzzz
 @w 8:10*

Nebulizer Parameters: RG60 APOST SWC

Analyte Back Pressure Flow
 All 167.0 kPa 0.55 L/min

Mean Data: RG60 APOST SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2343022.8	108.7	%	0.43			0.39%
ScR 361.383	281695.0	118.2	%	0.63			0.53%
Ag 328.068†	80910.8	0.4753	mg/L	0.00082	0.9505 mg/L	0.00164	0.17%
Al 308.215†	194609.7	159.9	mg/L	0.42	319.7 mg/L	0.84	0.26%
As 188.979†	3099.8	2.102	mg/L	0.0038	4.203 mg/L	0.0075	0.18%
B 249.677†	39.6	0.01938	mg/L	0.001946	0.03876 mg/L	0.003892	10.04%
Ba 233.527†	19133.4	2.726	mg/L	0.0073	5.452 mg/L	0.0146	0.27%
Be 313.042†	121855.1	0.5013	mg/L	0.00125	1.003 mg/L	0.0025	0.25%
Ca 317.933†	318512.4	41.68	mg/L	0.138	83.36 mg/L	0.275	0.33%
Cd 228.802†	24465.2	0.4837	mg/L	0.00204	0.9674 mg/L	0.00409	0.42%
Co 228.616†	24783.3	0.5184	mg/L	0.00129	1.037 mg/L	0.0026	0.25%
Cr 267.716†	2744.1	0.8286	mg/L	0.00622	1.657 mg/L	0.0124	0.75%
Cu 324.752†	143297.3	0.7769	mg/L	0.00131	1.554 mg/L	0.0026	0.17%
Fe 273.955†	141329.9	138.1	mg/L	0.44	276.2 mg/L	0.89	0.32%
K 766.490†	29640.0	13.30	mg/L	0.050	26.61 mg/L	0.101	0.38%
Mg 279.077†	40259.7	42.52	mg/L	0.147	85.03 mg/L	0.293	0.34%
Mn 257.610†	100388.8	2.897	mg/L	0.0107	5.795 mg/L	0.0214	0.37%
Mo 202.031†	65.1	0.00605	mg/L	0.000198	0.01211 mg/L	0.000396	3.27%
Na 589.592†	59155.9	10.42	mg/L	0.043	20.85 mg/L	0.087	0.42%
Na 330.237†	232.3	11.88	mg/L	0.185	23.77 mg/L	0.370	1.56%
Ni 231.604†	1176.4	0.7654	mg/L	0.00430	1.531 mg/L	0.0086	0.56%
Pb 220.353†	17135.1	2.436	mg/L	0.0029	4.872 mg/L	0.0058	0.12%
Sb 206.836†	110.0	-0.00182	mg/L	0.001702	-0.00364 mg/L	0.003405	93.55%
Se 196.026†	1909.4	1.980	mg/L	0.0057	3.960 mg/L	0.0115	0.29%
Si 288.158†	6008.2	5.406	mg/L	0.0145	10.81 mg/L	0.029	0.27%
Sn 189.927†	-13.1	0.00212	mg/L	0.000882	0.00423 mg/L	0.001765	41.70%
Sr 421.552†	300434.7	0.6989	mg/L	0.00174	1.398 mg/L	0.0035	0.25%
Ti 334.903†	109934.5	6.338	mg/L	0.0168	12.68 mg/L	0.034	0.26%
Tl 190.801†	3529.0	1.843	mg/L	0.0043	3.686 mg/L	0.0086	0.23%
V 292.402†	88202.3	0.8418	mg/L	0.00432	1.684 mg/L	0.0086	0.51%
Zn 206.200†	2533.3	1.289	mg/L	0.0074	2.578 mg/L	0.0148	0.58%

Sequence No.: 64
Sample ID: RG60 REF1 SWC

Autosampler Location: 72
Date Collected: 8/9/2010 6:45:55 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG60 REF1 SWC

Analyte	Back Pressure	Flow
All	168.0 kPa	0.55 L/min

Mean Data: RG60 REF1 SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2392709.0	111.0	%	0.81			0.73%
ScR 361.383	283601.3	119.0	%	0.53			0.45%
Ag 328.068†	173981.1	1.016	mg/L	0.0060	2.032	mg/L	0.59%
Al 308.215†	102645.9	84.31	mg/L	0.170	168.6	mg/L	0.20%
As 188.979†	1931.5	1.305	mg/L	0.0155	2.609	mg/L	1.19%
B 249.677†	2048.8	1.094	mg/L	0.0112	2.188	mg/L	1.03%
Ba 233.527†	21776.2	3.104	mg/L	0.0259	6.207	mg/L	0.83%
Be 313.042†	218066.4	0.8991	mg/L	0.00078	1.798	mg/L	0.09%
Ca 317.933†	305482.1	39.97	mg/L	0.041	79.95	mg/L	0.10%
Cd 228.802†	34562.2	0.6862	mg/L	0.00118	1.372	mg/L	0.17%
Co 228.616†	33567.4	0.7140	mg/L	0.00084	1.428	mg/L	0.12%
Cr 267.716†	2389.8	0.7221	mg/L	0.00769	1.444	mg/L	1.06%
Cu 324.752†	127599.6	0.6938	mg/L	0.00150	1.388	mg/L	0.22%
Fe 273.955†	138442.5	135.3	mg/L	0.73	270.5	mg/L	0.54%
K 766.490†	75232.8	33.77	mg/L	0.182	67.53	mg/L	0.54%
Mg 279.077†	25111.7	26.49	mg/L	0.252	52.98	mg/L	0.95%
Mn 257.610†	154534.1	4.461	mg/L	0.0042	8.921	mg/L	0.09%
Mo 202.031†	4470.9	0.4262	mg/L	0.00406	0.8525	mg/L	0.95%
Na 589.592†	30130.5	5.309	mg/L	0.0151	10.62	mg/L	0.28%
Na 330.237†	142.4	6.483	mg/L	0.0541	12.97	mg/L	0.83%
Ni 231.604†	842.2	0.5484	mg/L	0.00233	1.097	mg/L	0.42%
Pb 220.353†	8663.7	1.229	mg/L	0.0124	2.457	mg/L	1.01%
Sb 206.836†	886.4	0.4455	mg/L	0.00175	0.8910	mg/L	0.39%
Se 196.026†	1581.8	1.632	mg/L	0.0112	3.264	mg/L	0.68%
Si 288.158†	9632.5	8.661	mg/L	0.0880	17.32	mg/L	1.02%
Sn 189.927†	5479.4	1.574	mg/L	0.0156	3.149	mg/L	0.99%
Sr 421.552†	241163.0	0.5610	mg/L	0.00228	1.122	mg/L	0.41%
Ti 334.903†	33239.3	1.915	mg/L	0.0027	3.830	mg/L	0.14%
Tl 190.801†	2487.0	1.297	mg/L	0.0170	2.594	mg/L	1.31%
V 292.402†	84614.0	0.8131	mg/L	0.00238	1.626	mg/L	0.29%
Zn 206.200†	3373.3	1.715	mg/L	0.0192	3.430	mg/L	1.12%

Sequence No.: 65
Sample ID: RG60 MB1SPK SWC

Autosampler Location: 73
Date Collected: 8/9/2010 6:51:44 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG60 MB1SPK SWC

Analyte	Back Pressure	Flow
All	167.0 kPa	0.55 L/min

Mean Data: RG60 MB1SPK SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
ScA 357.253	2402007.8	111.5 %		0.54			0.48%
ScR 361.383	282547.8	118.6 %		1.39			1.17%
Ag 328.068†	78647.5	0.4574 mg/L		0.00395	0.9148 mg/L	0.00790	0.86%
Al 308.215†	2372.3	1.942 mg/L		0.0145	3.884 mg/L	0.0290	0.75%
As 188.979†	2808.9	1.893 mg/L		0.0072	3.786 mg/L	0.0145	0.38%
B 249.677†	0.6	-0.00115 mg/L		0.001911	-0.00230 mg/L	0.003822	165.97%
Ba 233.527†	13064.7	1.866 mg/L		0.0170	3.732 mg/L	0.0341	0.91%
Be 313.042†	119377.3	0.4922 mg/L		0.00051	0.9843 mg/L	0.00102	0.10%
Ca 317.933†	75472.9	9.876 mg/L		0.0199	19.75 mg/L	0.040	0.20%
Cd 228.802†	23470.0	0.4642 mg/L		0.00413	0.9283 mg/L	0.00827	0.89%
Co 228.616†	21420.8	0.4577 mg/L		0.00423	0.9154 mg/L	0.00847	0.92%
Cr 267.716†	1587.8	0.4786 mg/L		0.00393	0.9572 mg/L	0.00786	0.82%
Cu 324.752†	87471.4	0.4679 mg/L		0.00350	0.9358 mg/L	0.00700	0.75%
Fe 273.955†	2048.7	2.001 mg/L		0.0096	4.003 mg/L	0.0191	0.48%
K 766.490†	20826.0	9.347 mg/L		0.0451	18.69 mg/L	0.090	0.48%
Mg 279.077†	9287.3	9.826 mg/L		0.0746	19.65 mg/L	0.149	0.76%
Mn 257.610†	16249.1	0.4695 mg/L		0.00393	0.9391 mg/L	0.00786	0.84%
Mo 202.031†	7.2	0.00061 mg/L		0.000550	0.00123 mg/L	0.001100	89.46%
Na 589.592†	51747.8	9.119 mg/L		0.0297	18.24 mg/L	0.059	0.33%
Na 330.237†	228.4	10.83 mg/L		0.117	21.67 mg/L	0.235	1.08%
Ni 231.604†	720.4	0.4684 mg/L		0.00130	0.9367 mg/L	0.00261	0.28%
Pb 220.353†	13241.7	1.855 mg/L		0.0136	3.710 mg/L	0.0272	0.73%
Sb 206.836†	-2.0	-0.00805 mg/L		0.000851	-0.01610 mg/L	0.001702	10.57%
Se 196.026†	1868.7	1.887 mg/L		0.0108	3.774 mg/L	0.0216	0.57%
Si 288.158†	8.7	0.00959 mg/L		0.004417	0.01919 mg/L	0.008834	46.05%
Sn 189.927†	-10.7	-0.00227 mg/L		0.001028	-0.00453 mg/L	0.002056	45.33%
Sr 421.552†	206787.7	0.4811 mg/L		0.00155	0.9621 mg/L	0.00310	0.32%
Ti 334.903†	13.7	0.00029 mg/L		0.000194	0.00059 mg/L	0.000388	65.98%
Tl 190.801†	3518.4	1.854 mg/L		0.0054	3.708 mg/L	0.0109	0.29%
V 292.402†	48943.3	0.4788 mg/L		0.00460	0.9575 mg/L	0.00920	0.96%
Zn 206.200†	931.6	0.4737 mg/L		0.00340	0.9474 mg/L	0.00679	0.72%

Sequence No.: 66

Autosampler Location: 7

Sample ID: CV 7

Date Collected: 8/9/2010 6:57:46 PM

Dilution: 1X

Data Type: Original

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	167.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2388199.6	110.8 %	0.21			0.19%
ScR 361.383	285187.6	119.7 %	0.91			0.76%
Ag 328.068†	155121.6	0.9021 mg/L	0.00475	0.9021 mg/L	0.00475	0.53%
Al 308.215†	2328.6	1.877 mg/L	0.0235	1.877 mg/L	0.0235	1.25%
As 188.979†	2800.6	1.887 mg/L	0.0101	1.887 mg/L	0.0101	0.54%
B 249.677†	1685.2	0.8997 mg/L	0.00889	0.8997 mg/L	0.00889	0.99%
Ba 233.527†	6416.3	0.9160 mg/L	0.00671	0.9160 mg/L	0.00671	0.73%
Be 313.042†	229688.8	0.9469 mg/L	0.00174	0.9469 mg/L	0.00174	0.18%
Ca 317.933†	14945.3	1.956 mg/L	0.0132	1.956 mg/L	0.0132	0.67%
Cd 228.802†	47849.7	0.9499 mg/L	0.00664	0.9499 mg/L	0.00664	0.70%
Co 228.616†	43258.2	0.9237 mg/L	0.00822	0.9237 mg/L	0.00822	0.89%
Cr 267.716†	3080.1	0.9290 mg/L	0.00359	0.9290 mg/L	0.00359	0.39%
Cu 324.752†	185967.3	0.9941 mg/L	0.00787	0.9941 mg/L	0.00787	0.79%
Fe 273.955†	1913.6	1.869 mg/L	0.0098	1.869 mg/L	0.0098	0.52%
K 766.490†	40821.9	18.32 mg/L	0.052	18.32 mg/L	0.052	0.28%
Mg 279.077†	1784.1	1.891 mg/L	0.0124	1.891 mg/L	0.0124	0.65%
Mn 257.610†	31811.5	0.9188 mg/L	0.00639	0.9188 mg/L	0.00639	0.70%
Mo 202.031†	9601.2	0.9156 mg/L	0.00491	0.9156 mg/L	0.00491	0.54%
Na 589.592†	253040.1	44.59 mg/L	0.135	44.59 mg/L	0.135	0.30%
Na 330.237†	977.9	47.18 mg/L	0.221	47.18 mg/L	0.221	0.47%
Ni 231.604†	1430.6	0.9325 mg/L	0.00508	0.9325 mg/L	0.00508	0.54%
Pb 220.353†	13271.3	1.859 mg/L	0.0156	1.859 mg/L	0.0156	0.84%
Sb 206.836†	3748.9	2.013 mg/L	0.0065	2.013 mg/L	0.0065	0.32%
Se 196.026†	1866.1	1.883 mg/L	0.0083	1.883 mg/L	0.0083	0.44%
Si 288.158†	2228.3	2.005 mg/L	0.0128	2.005 mg/L	0.0128	0.64%
Sn 189.927†	3027.8	0.8684 mg/L	0.00345	0.8684 mg/L	0.00345	0.40%
Sr 421.552†	408422.1	0.9501 mg/L	0.00371	0.9501 mg/L	0.00371	0.39%
Ti 334.903†	16185.3	0.9322 mg/L	0.00170	0.9322 mg/L	0.00170	0.18%
Tl 190.801†	3503.2	1.839 mg/L	0.0052	1.839 mg/L	0.0052	0.29%
V 292.402†	95278.2	0.9372 mg/L	0.00806	0.9372 mg/L	0.00806	0.86%
Zn 206.200†	1860.3	0.9446 mg/L	0.00743	0.9446 mg/L	0.00743	0.79%

Sequence No.: 67

Sample ID: CB 7

Autosampler Location: 1

Date Collected: 8/9/2010 7:03:48 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	167.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2436675.3	113.1	%	0.30			0.27%
ScR 361.383	279210.1	117.2	%	0.57			0.49%
Ag 328.068†	35.8	0.00021	mg/L	0.000305	0.00021 mg/L	0.000305	146.78%
Al 308.215†	30.6	0.02517	mg/L	0.005546	0.02517 mg/L	0.005546	22.03%
As 188.979†	2.9	0.00193	mg/L	0.000563	0.00193 mg/L	0.000563	29.13%
B 249.677†	7.4	0.00393	mg/L	0.001884	0.00393 mg/L	0.001884	47.91%
Ba 233.527†	-3.1	-0.00045	mg/L	0.000411	-0.00045 mg/L	0.000411	92.08%
Be 313.042†	-19.2	-0.00008	mg/L	0.000042	-0.00008 mg/L	0.000042	53.38%
Ca 317.933†	25.9	0.00339	mg/L	0.001971	0.00339 mg/L	0.001971	58.23%
Cd 228.802†	-2.0	-0.00004	mg/L	0.000062	-0.00004 mg/L	0.000062	147.11%
Co 228.616†	6.6	0.00014	mg/L	0.000063	0.00014 mg/L	0.000063	44.56%
Cr 267.716†	-2.4	-0.00073	mg/L	0.000371	-0.00073 mg/L	0.000371	50.94%
Cu 324.752†	-195.6	-0.00105	mg/L	0.000204	-0.00105 mg/L	0.000204	19.53%
Fe 273.955†	0.2	0.00024	mg/L	0.000473	0.00024 mg/L	0.000473	194.09%
K 766.490†	-228.1	-0.1024	mg/L	0.01812	-0.1024 mg/L	0.01812	17.70%
Mg 279.077†	3.6	0.00381	mg/L	0.002497	0.00381 mg/L	0.002497	65.53%
Mn 257.610†	-3.6	-0.00010	mg/L	0.000044	-0.00010 mg/L	0.000044	42.64%
Mo 202.031†	-1.2	-0.00011	mg/L	0.000080	-0.00011 mg/L	0.000080	70.82%
Na 589.592†	107.9	0.01902	mg/L	0.003441	0.01902 mg/L	0.003441	18.09%
Na 330.237†	24.3	1.174	mg/L	0.1503	1.174 mg/L	0.1503	12.80%
Ni 231.604†	5.4	0.00351	mg/L	0.003553	0.00351 mg/L	0.003553	101.10%
Pb 220.353†	-11.9	-0.00166	mg/L	0.001027	-0.00166 mg/L	0.001027	62.02%
Sb 206.836†	-14.8	-0.00797	mg/L	0.000966	-0.00797 mg/L	0.000966	12.12%
Se 196.026†	6.0	0.00605	mg/L	0.003453	0.00605 mg/L	0.003453	57.10%
Si 288.158†	3.7	0.00336	mg/L	0.005884	0.00336 mg/L	0.005884	175.21%
Sn 189.927†	-0.8	-0.00024	mg/L	0.000602	-0.00024 mg/L	0.000602	249.98%
Sr 421.552†	-69.2	-0.00016	mg/L	0.000071	-0.00016 mg/L	0.000071	43.96%
Ti 334.903†	0.7	0.00004	mg/L	0.000923	0.00004 mg/L	0.000923	>999.9%
Tl 190.801†	8.9	0.00473	mg/L	0.001397	0.00473 mg/L	0.001397	29.53%
V 292.402†	-11.0	-0.00011	mg/L	0.000309	-0.00011 mg/L	0.000309	275.23%
Zn 206.200†	1.7	0.00089	mg/L	0.000540	0.00089 mg/L	0.000540	60.77%

end package



IEC Date: 7.6.10

Analysis Date: 8.10.10

Analyst: Red

LR Date: 7.12.10

Page: 1 of 5

All corrections made by analyst unless otherwise noted. 8.10.10 Red

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		std 0			2748-2
		2			↓ - 11
		3			2749-1
		4			↓ - 2
		↓ 5			↓ - 3
		std 0			
		ICV			2732-14
		ICB			
		CR1			
		ICSA			
		ICSAB			
		new ICSA			2749-8
		new ICSAB			↓ - 9
		CCV1			
		CCB1			
		RG62 MB1	SUC	2	
		R#52 MB	LEN	5	Ba 0.014 A.N.
		Adyp			✓
		A			
		↓ AspH	↓	↓	✓
		RG60 D	SUC	↓	
		RG62 Bdep		2	✓
		B			
label		222222 ↓ air	↓	↓	tubing disconnect
		↓ BspH	↓	↓	



IEC Date: _____

Analysis Date: 8/10/10

Analyst: REW

LR Date: _____

Page: 2 of 5

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		RG62 MB sph	gwc	2 ✓	
		CCV2			
		CCB2			
		RG63 MB	WMW		
		↓ A	↓		
		↓ B	↓		
		RG49 G	↓		printer error - data reprocessed
		RG60 B	gwc	2	
		RG76 Q	↓	5	
		↓ R	↓	2	
		↓ S	↓		
Label		RG62 B sph	↓	↓ ✓	
		RG76 MB sph	↓	↓ ✓	
		CCV3			
		CCB3			
		RG76 MB	gwc	2	
		RG82 MB	TWC		
		RG63 C	WMW		
		↓ D	↓		
		↓ E	↓		
		RG82 A	TWC		
		↓ B	↓		
		↓ C	↓		
		↓ D	↓		

[Signature]
8/11/10

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA

Analysis Date: 8.10.10

	Analyst	Peer	Comment
ICP 1	WS-11	AS-11	
Logbook:			
Analyst, Date, Method info	/	✓	
Sample ID's	/	✓	
Standard/QC solution ID's recorded	/	✓	
Prep codes	/	✓	
Dilution factors	/	✓	
Crossouts/Corrections/Deletions	/	✓	
Calibration:			
Blank & Standard intensities	/	✓	
Standard deviations	/	✓	
Curve fit	/	✓	
Calibration Verification:			
ICV/CCV	/	✓	see log
ICB/CCB	/	✓	↓
Samples:			
RSD's & SD's	/	✓	see log
Internal Standards	/	✓	
Carry-over	/	✓	
Method QC:			
CRI/CRA	/	✓	
ICSA/ICSAB	/	✓	
Post Spikes/Serial Dilutions	-	-	
Analytic Spikes	-	-	
Matrix QC:			
SRM/LCS	/	✓	
Matrix Spikes	/	✓	
Matrix Duplicates	/	✓	
Method Blanks	/	✓	RHS
Data Distribution:			
Requested elements/isotope identified	/	✓	
Correct samples identified for distribution	/	✓	
Raw data match distributed data	/	✓	
Data filename correct	/	✓	
Necessary Analysts Notes and CAF's	/	✓	RHS2 R682 R663 R676

Nebulizer Parameters: Hg ReAlign

Analyte	Back Pressure	Flow
All	163.0 kPa	0.55 L/min

8/10/2010 11:06:20 AM Hg ReAlign... Actual peak offset (nm): 0.000
 Drift (nm): -0.000 Slit adjustment: 0

Analysis Begun

Start Time: 8/10/2010 11:07:32 AM Plasma On Time: 8/10/2010 10:18:38 AM
 Logged In Analyst: metals Technique: ICP Continuous
 Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\CRISSET1.sif

Batch ID:

Results Data Set: PE100810

Results Library: C:\pe\metals\Results\Results.mdb

Method Loaded

Method Name: ARIIEC6AN.552AS

Method Last Saved: 7/13/2010 9:41:26 AM

IEC File: IEC44.iec

MSF File:

Method Description: 12Axial Elements

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Al 308.215	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
B 249.677	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Be 313.042	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cd 228.802	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Cr 267.716	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Fe 273.955	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Mg 279.077	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Na 330.237	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ni 231.604	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Si 288.158	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Ti 334.903	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Zn 206.200	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
ScA 357.253	Lin, Calc Int	Peak Area	Axial	n/a	n/a
ScR 361.383	Lin, Calc Int	Peak Area	Radial	n/a	n/a

Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank 1

Date Collected: 8/10/2010 11:07:34 AM

Data Type: Original

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	163.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected		RSD	Calib	
	Intensity	Std.Dev.		Conc.	Units
ScA 357.253	1428779.2	12890.52	0.90%	100.0	%
ScR 361.383	163061.8	728.23	0.45%	100.0	%
Ag 328.068†	-172.9	62.13	35.94%	[0.00]	mg/L
Al 308.215†	-231.1	30.03	12.99%	[0.00]	mg/L
As 188.979†	15.2	2.08	13.64%	[0.00]	mg/L
B 249.677†	-20.5	3.95	19.26%	[0.00]	mg/L
Ba 233.527†	28.8	0.84	2.93%	[0.00]	mg/L
Be 313.042†	532.8	20.28	3.81%	[0.00]	mg/L
Ca 317.933†	-95.4	8.82	9.24%	[0.00]	mg/L
Cd 228.802†	156.9	3.70	2.36%	[0.00]	mg/L
Co 228.616†	-157.6	1.67	1.06%	[0.00]	mg/L
Cr 267.716†	-40.9	1.64	4.02%	[0.00]	mg/L
Cu 324.752†	1254.6	55.03	4.39%	[0.00]	mg/L
Fe 273.955†	-21.9	2.15	9.83%	[0.00]	mg/L
K 766.490†	3421.7	57.07	1.67%	[0.00]	mg/L
Mg 279.077†	-52.9	1.09	2.07%	[0.00]	mg/L
Mn 257.610†	70.3	3.69	5.24%	[0.00]	mg/L
Mo 202.031†	23.2	1.71	7.37%	[0.00]	mg/L
Na 589.592†	1789.1	74.28	4.15%	[0.00]	mg/L
Na 330.237†	-248.6	2.62	1.05%	[0.00]	mg/L
Ni 231.604†	-63.0	4.32	6.87%	[0.00]	mg/L
Pb 220.353†	277.2	6.19	2.23%	[0.00]	mg/L
Sb 206.836†	165.8	0.83	0.50%	[0.00]	mg/L
Se 196.026†	-77.2	2.32	3.00%	[0.00]	mg/L
Si 288.158†	11.5	4.28	37.13%	[0.00]	mg/L
Sn 189.927†	-5.5	2.50	45.39%	[0.00]	mg/L
Sr 421.552†	475.8	46.53	9.78%	[0.00]	mg/L
Ti 334.903†	235.4	13.51	5.74%	[0.00]	mg/L
Tl 190.801†	-9.6	2.60	27.20%	[0.00]	mg/L
V 292.402†	509.2	8.59	1.69%	[0.00]	mg/L
Zn 206.200†	-14.8	1.71	11.51%	[0.00]	mg/L

Sequence No.: 2
Sample ID: STD2

Autosampler Location: 2
Date Collected: 8/10/2010 11:13:33 AM
Data Type: Original

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	163.0 kPa	0.55 L/min

Mean Data: STD2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1445937.0	4808.22	0.33%	101.2	%
ScR 361.383	162971.8	945.95	0.58%	99.94	%
Ba 233.527†	74786.1	38.54	0.05%	[10]	mg/L
Cd 228.802†	521561.6	793.10	0.15%	[10]	mg/L
Co 228.616†	481786.5	938.63	0.19%	[10]	mg/L
Cr 267.716†	35137.8	37.31	0.11%	[10]	mg/L
Cu 324.752†	1944185.2	2972.60	0.15%	[10]	mg/L
Mn 257.610†	369734.4	256.97	0.07%	[10]	mg/L
V 292.402†	1063713.5	2762.29	0.26%	[10]	mg/L

Sequence No.: 3
Sample ID: STD3

Autosampler Location: 3
Date Collected: 8/10/2010 11:17:21 AM
Data Type: Original

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	164.0 kPa	0.55 L/min

Mean Data: STD3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	1434879.5	9148.78	0.64%	100.4	%
ScR 361.383	163793.3	446.47	0.27%	100.4	%
Ag 328.068†	179225.1	524.37	0.29%	[1.0]	mg/L
As 188.979†	15425.3	168.62	1.09%	[10]	mg/L
B 249.677†	19941.9	81.40	0.41%	[10]	mg/L
Be 313.042†	1304730.4	5362.28	0.41%	[5.0]	mg/L
Na 589.592†	308306.4	1514.20	0.49%	[50]	mg/L
Ni 231.604†	16398.8	77.42	0.47%	[10]	mg/L
Pb 220.353†	73288.8	87.93	0.12%	[10]	mg/L
Se 196.026†	10198.3	121.52	1.19%	[10]	mg/L
Sr 421.552†	2311836.8	3467.84	0.15%	[5]	mg/L
Tl 190.801†	19248.8	135.81	0.71%	[10]	mg/L
Zn 206.200†	21168.6	136.54	0.65%	[10]	mg/L

Sequence No.: 4
Sample ID: STD4

Autosampler Location: 4
Date Collected: 8/10/2010 11:21:41 AM
Data Type: Original

Nebulizer Parameters: STD4

Analyte	Back Pressure	Flow
All	164.0 kPa	0.55 L/min

Mean Data: STD4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	1457294.0	6380.63	0.44%	102.0	%
ScR 361.383	163436.5	1089.85	0.67%	100.2	%
Mo 202.031†	108160.6	38.57	0.04%	[10]	mg/L
Sb 206.836†	19359.9	73.68	0.38%	[10]	mg/L
Si 288.158†	11926.7	41.37	0.35%	[10]	mg/L
Sn 189.927†	36156.8	31.58	0.09%	[10]	mg/L
Ti 334.903†	186202.6	1389.31	0.75%	[10]	mg/L

Sequence No.: 5
 Sample ID: STD5

Autosampler Location: 5
 Date Collected: 8/10/2010 11:25:54 AM
 Data Type: Original

Nebulizer Parameters: STD5

Analyte Back Pressure Flow
 All 164.0 kPa 0.55 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1413858.0	5337.11	0.38%	98.96	%
ScR 361.383	164428.4	776.51	0.47%	100.8	%
Al 308.215†	39101.5	231.34	0.59%	[30]	mg/L
Ca 317.933†	247424.3	162.46	0.07%	[30]	mg/L
Fe 273.955†	108386.0	499.33	0.46%	[100]	mg/L
K 766.490†	238935.7	906.59	0.38%	[100]	mg/L
Mg 279.077†	30416.6	179.74	0.59%	[30]	mg/L
Na 330.237†	2205.6	10.60	0.48%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	179200	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1303	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	1543	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	1994	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	7479	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	260900	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	8247	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	52160	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	48180	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	3514	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	194400	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	1084	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	2389	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	1014	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	36970	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	10820	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	6166	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	22.06	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	1640	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	7329	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	1936	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	1020	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1193	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	3616	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	462400	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	18620	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	1925	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	106400	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	2117	0.00000	1.000000	

=====
Analysis Begun

Start Time: 8/10/2010 11:39:09 AM

Plasma On Time: 8/10/2010 10:18:38 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0810.sif

Batch ID:

Results Data Set: PE100810

Results Library: C:\pe\metals\Results\Results.mdb

=====
Sequence No.: 1

Sample ID: Calib Blank 1

Date Collected: 8/10/2010 11:39:11 AM

Data Type: Original

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	164.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected		RSD	Calib	
	Intensity	Std.Dev.		Conc.	Units
ScA 357.253	1454027.9	6591.10	0.45%	101.8	%
ScR 361.383	161433.1	1294.20	0.80%	99.00	%
Ag 328.068†	-196.7	56.47	28.70%	[0.00]	mg/L
Al 308.215†	-217.2	23.49	10.82%	[0.00]	mg/L
As 188.979†	16.3	4.01	24.51%	[0.00]	mg/L
B 249.677†	-17.5	5.58	31.94%	[0.00]	mg/L
Ba 233.527†	28.4	4.82	16.97%	[0.00]	mg/L
Be 313.042†	535.9	18.99	3.54%	[0.00]	mg/L
Ca 317.933†	-107.2	15.43	14.39%	[0.00]	mg/L
Cd 228.802†	162.8	1.65	1.01%	[0.00]	mg/L
Co 228.616†	-153.7	5.15	3.35%	[0.00]	mg/L
Cr 267.716†	-36.8	1.80	4.89%	[0.00]	mg/L
Cu 324.752†	1797.2	53.29	2.97%	[0.00]	mg/L
Fe 273.955†	-19.0	0.54	2.86%	[0.00]	mg/L
K 766.490†	3506.8	23.14	0.66%	[0.00]	mg/L
Mg 279.077†	-61.8	6.82	11.04%	[0.00]	mg/L
Mn 257.610†	78.9	3.71	4.71%	[0.00]	mg/L
Mo 202.031†	27.0	0.52	1.94%	[0.00]	mg/L
Na 589.592†	1837.9	67.49	3.67%	[0.00]	mg/L
Na 330.237†	-248.2	6.36	2.56%	[0.00]	mg/L
Ni 231.604†	-62.6	4.73	7.56%	[0.00]	mg/L
Pb 220.353†	275.6	3.50	1.27%	[0.00]	mg/L
Sb 206.836†	161.6	3.38	2.09%	[0.00]	mg/L
Se 196.026†	-74.7	1.42	1.90%	[0.00]	mg/L
Si 288.158†	14.5	2.91	20.07%	[0.00]	mg/L
Sn 189.927†	-4.6	1.33	29.17%	[0.00]	mg/L
Sr 421.552†	484.1	23.72	4.90%	[0.00]	mg/L
Ti 334.903†	249.8	24.86	9.95%	[0.00]	mg/L
Tl 190.801†	-14.4	2.48	17.17%	[0.00]	mg/L
V 292.402†	494.7	23.34	4.72%	[0.00]	mg/L
Zn 206.200†	-12.9	0.93	7.20%	[0.00]	mg/L

=====
Analysis Begun

Start Time: 8/10/2010 11:43:39 AM

Plasma On Time: 8/10/2010 10:18:38 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0810.sif

Batch ID:

Results Data Set: PE100810

Results Library: C:\pe\metals\Results\Results.mdb

Sequence No.: 1

Autosampler Location: 7

Sample ID: CV

Date Collected: 8/10/2010 11:43:42 AM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	164.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1442130.8	100.9 %	0.61			0.60%
ScR 361.383	164426.3	100.8 %	0.40			0.39%
Ag 328.068†	174606.2	0.9742 mg/L	0.00574	0.9742 mg/L	0.00574	0.59%
Al 308.215†	2739.5	2.063 mg/L	0.0128	2.063 mg/L	0.0128	0.62%
As 188.979†	3109.6	2.016 mg/L	0.0173	2.016 mg/L	0.0173	0.86%
B 249.677†	1973.0	0.9878 mg/L	0.00543	0.9878 mg/L	0.00543	0.55%
Ba 233.527†	7537.4	1.007 mg/L	0.0051	1.007 mg/L	0.0051	0.50%
Be 313.042†	260038.8	0.9939 mg/L	0.00160	0.9939 mg/L	0.00160	0.16%
Ca 317.933†	17313.0	2.099 mg/L	0.0082	2.099 mg/L	0.0082	0.39%
Cd 228.802†	53672.5	1.026 mg/L	0.0067	1.026 mg/L	0.0067	0.66%
Co 228.616†	47927.2	0.9929 mg/L	0.00278	0.9929 mg/L	0.00278	0.28%
Cr 267.716†	3572.3	1.017 mg/L	0.0048	1.017 mg/L	0.0048	0.47%
Cu 324.752†	207575.1	1.068 mg/L	0.0052	1.068 mg/L	0.0052	0.49%
Fe 273.955†	2207.0	2.035 mg/L	0.0067	2.035 mg/L	0.0067	0.33%
K 766.490†	49022.0	20.52 mg/L	0.037	20.52 mg/L	0.037	0.18%
Mg 279.077†	2085.2	2.060 mg/L	0.0139	2.060 mg/L	0.0139	0.68%
Mn 257.610†	37213.5	1.007 mg/L	0.0039	1.007 mg/L	0.0039	0.39%
Mo 202.031†	10771.2	0.9957 mg/L	0.01053	0.9957 mg/L	0.01053	1.06%
Na 589.592†	305474.4	49.54 mg/L	0.140	49.54 mg/L	0.140	0.28%
Na 330.237†	1148.6	51.95 mg/L	0.106	51.95 mg/L	0.106	0.20%
Ni 231.604†	1658.8	1.012 mg/L	0.0068	1.012 mg/L	0.0068	0.67%
Pb 220.353†	14710.3	2.009 mg/L	0.0064	2.009 mg/L	0.0064	0.32%
Sb 206.836†	4191.6	2.161 mg/L	0.0229	2.161 mg/L	0.0229	1.06%
Se 196.026†	2057.8	2.016 mg/L	0.0186	2.016 mg/L	0.0186	0.92%
Si 288.158†	2610.0	2.191 mg/L	0.0062	2.191 mg/L	0.0062	0.28%
Sn 189.927†	3398.6	0.9405 mg/L	0.01001	0.9405 mg/L	0.01001	1.06%
Sr 421.552†	469749.1	1.016 mg/L	0.0025	1.016 mg/L	0.0025	0.24%
Ti 334.903†	18688.0	1.002 mg/L	0.0028	1.002 mg/L	0.0028	0.28%
Tl 190.801†	3881.3	2.003 mg/L	0.0278	2.003 mg/L	0.0278	1.39%
V 292.402†	105848.3	1.007 mg/L	0.0059	1.007 mg/L	0.0059	0.58%
Zn 206.200†	2136.9	1.009 mg/L	0.0032	1.009 mg/L	0.0032	0.32%

Sequence No.: 2
 Sample ID: CB

Autosampler Location: 1
 Date Collected: 8/10/2010 11:49:43 AM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 165.0 kPa 0.55 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1470387.5	102.9 %	1.12			1.09%
ScR 361.383	162321.3	99.55 %	0.512			0.51%
Ag 328.068†	49.2	0.00027 mg/L	0.000125	0.00027 mg/L	0.000125	45.67%
Al 308.215†	-16.9	-0.01296 mg/L	0.008277	-0.01296 mg/L	0.008277	63.86%
As 188.979†	-0.0	-0.00001 mg/L	0.001588	-0.00001 mg/L	0.001588	>999.9%
B 249.677†	8.1	0.00408 mg/L	0.001522	0.00408 mg/L	0.001522	37.29%
Ba 233.527†	-0.7	-0.00010 mg/L	0.000076	-0.00010 mg/L	0.000076	79.01%
Be 313.042†	26.6	0.00010 mg/L	0.000052	0.00010 mg/L	0.000052	50.72%
Ca 317.933†	6.6	0.00080 mg/L	0.001715	0.00080 mg/L	0.001715	213.88%
Cd 228.802†	-5.3	-0.00010 mg/L	0.000049	-0.00010 mg/L	0.000049	47.76%
Co 228.616†	7.4	0.00016 mg/L	0.000030	0.00016 mg/L	0.000030	19.04%
Cr 267.716†	-6.6	-0.00188 mg/L	0.000342	-0.00188 mg/L	0.000342	18.19%
Cu 324.752†	-20.1	-0.00010 mg/L	0.000018	-0.00010 mg/L	0.000018	17.35%
Fe 273.955†	-3.8	-0.00352 mg/L	0.000951	-0.00352 mg/L	0.000951	27.03%
K 766.490†	64.9	0.02717 mg/L	0.009247	0.02717 mg/L	0.009247	34.03%
Mg 279.077†	-2.0	-0.00201 mg/L	0.003952	-0.00201 mg/L	0.003952	196.25%
Mn 257.610†	1.0	0.00003 mg/L	0.000065	0.00003 mg/L	0.000065	236.97%
Mo 202.031†	-2.4	-0.00022 mg/L	0.000210	-0.00022 mg/L	0.000210	94.06%
Na 589.592†	202.7	0.03287 mg/L	0.002808	0.03287 mg/L	0.002808	8.54%
Na 330.237†	9.2	0.4145 mg/L	0.57170	0.4145 mg/L	0.57170	137.93%
Ni 231.604†	1.2	0.00073 mg/L	0.001138	0.00073 mg/L	0.001138	155.54%
Pb 220.353†	-2.9	-0.00040 mg/L	0.000962	-0.00040 mg/L	0.000962	242.42%
Sb 206.836†	-0.3	-0.00013 mg/L	0.001712	-0.00013 mg/L	0.001712	>999.9%
Se 196.026†	8.9	0.00875 mg/L	0.003928	0.00875 mg/L	0.003928	44.88%
Si 288.158†	0.5	0.00040 mg/L	0.002673	0.00040 mg/L	0.002673	663.07%
Sn 189.927†	4.1	0.00113 mg/L	0.000123	0.00113 mg/L	0.000123	10.86%
Sr 421.552†	19.5	0.00004 mg/L	0.000091	0.00004 mg/L	0.000091	214.53%
Ti 334.903†	-43.1	-0.00231 mg/L	0.000984	-0.00231 mg/L	0.000984	42.56%
Tl 190.801†	6.1	0.00315 mg/L	0.001321	0.00315 mg/L	0.001321	41.94%
V 292.402†	14.5	0.00012 mg/L	0.000074	0.00012 mg/L	0.000074	59.31%
Zn 206.200†	0.7	0.00032 mg/L	0.001803	0.00032 mg/L	0.001803	557.04%

Sequence No.: 3

Autosampler Location: 21

Sample ID: CRI

Date Collected: 8/10/2010 11:55:42 AM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	165.0 kPa	0.55 L/min

Mean Data: CRI

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1464542.3	102.5 %	0.67			0.65%
ScR 361.383	164701.8	101.0 %	1.24			1.23%
Ag 328.068†	589.2	0.00329 mg/L	0.000254	0.00329 mg/L	0.000254	7.74%
Al 308.215†	77.1	0.05899 mg/L	0.012515	0.05899 mg/L	0.012515	21.21%
As 188.979†	79.8	0.05170 mg/L	0.001469	0.05170 mg/L	0.001469	2.84%
B 249.677†	47.2	0.02368 mg/L	0.002635	0.02368 mg/L	0.002635	11.13%
Ba 233.527†	22.1	0.00295 mg/L	0.000487	0.00295 mg/L	0.000487	16.50%
Be 313.042†	275.7	0.00105 mg/L	0.000090	0.00105 mg/L	0.000090	8.55%
Ca 317.933†	442.8	0.05369 mg/L	0.000531	0.05369 mg/L	0.000531	0.99%
Cd 228.802†	107.5	0.00197 mg/L	0.000011	0.00197 mg/L	0.000011	0.55%
Co 228.616†	151.5	0.00314 mg/L	0.000136	0.00314 mg/L	0.000136	4.35%
Cr 267.716†	17.5	0.00499 mg/L	0.001271	0.00499 mg/L	0.001271	25.46%
Cu 324.752†	235.5	0.00121 mg/L	0.000073	0.00121 mg/L	0.000073	6.03%
Fe 273.955†	54.0	0.04979 mg/L	0.001678	0.04979 mg/L	0.001678	3.37%
K 766.490†	1237.2	0.5178 mg/L	0.02815	0.5178 mg/L	0.02815	5.44%
Mg 279.077†	55.2	0.05439 mg/L	0.008095	0.05439 mg/L	0.008095	14.88%
Mn 257.610†	33.8	0.00092 mg/L	0.000032	0.00092 mg/L	0.000032	3.48%
Mo 202.031†	55.1	0.00509 mg/L	0.000409	0.00509 mg/L	0.000409	8.04%
Na 589.592†	3167.7	0.5137 mg/L	0.01128	0.5137 mg/L	0.01128	2.20%
Na 330.237†	35.7	1.615 mg/L	1.0695	1.615 mg/L	1.0695	66.22%
Ni 231.604†	18.1	0.01107 mg/L	0.001996	0.01107 mg/L	0.001996	18.03%
Pb 220.353†	143.0	0.01954 mg/L	0.000887	0.01954 mg/L	0.000887	4.54%
Sb 206.836†	106.7	0.05512 mg/L	0.002046	0.05512 mg/L	0.002046	3.71%
Se 196.026†	57.3	0.05618 mg/L	0.005687	0.05618 mg/L	0.005687	10.12%
Si 288.158†	79.2	0.06639 mg/L	0.002051	0.06639 mg/L	0.002051	3.09%
Sn 189.927†	35.5	0.00981 mg/L	0.001653	0.00981 mg/L	0.001653	16.85%
Sr 421.552†	501.0	0.00108 mg/L	0.000036	0.00108 mg/L	0.000036	3.31%
Ti 334.903†	52.5	0.00281 mg/L	0.000116	0.00281 mg/L	0.000116	4.13%
Tl 190.801†	96.8	0.05027 mg/L	0.003774	0.05027 mg/L	0.003774	7.51%
V 292.402†	337.4	0.00323 mg/L	0.000310	0.00323 mg/L	0.000310	9.60%
Zn 206.200†	21.8	0.01028 mg/L	0.000458	0.01028 mg/L	0.000458	4.46%

Sequence No.: 4
 Sample ID: ICSA

Autosampler Location: 22
 Date Collected: 8/10/2010 12:01:42 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: ICSA

Analyte Back Pressure Flow
 All 165.0 kPa 0.55 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1402133.7	98.14	%	0.155			0.16%
ScR 361.383	163802.9	100.5	%	0.96			0.96%
Ag 328.068†	-1195.7	0.00029	mg/L	0.000252	0.00029 mg/L	0.000252	86.41%
Al 308.215†	267864.6	205.5	mg/L	1.10	205.5 mg/L	1.10	0.54%
As 188.979†	-5.8	-0.00374	mg/L	0.000582	-0.00374 mg/L	0.000582	15.57%
B 249.677†	35.4	0.01778	mg/L	0.001959	0.01778 mg/L	0.001959	11.02%
Ba 233.527†	80.5	0.00137	mg/L	0.000130	0.00137 mg/L	0.000130	9.47%
Be 313.042†	-6.0	-0.00009	mg/L	0.000035	-0.00009 mg/L	0.000035	39.99%
Ca 317.933†	821783.4	99.64	mg/L	0.444	99.64 mg/L	0.444	0.45%
Cd 228.802†	45.4	0.00088	mg/L	0.000103	0.00088 mg/L	0.000103	11.71%
Co 228.616†	40.4	0.00083	mg/L	0.000144	0.00083 mg/L	0.000144	17.26%
Cr 267.716†	1.4	-0.00016	mg/L	0.001064	-0.00016 mg/L	0.001064	661.17%
Cu 324.752†	-3403.9	0.00023	mg/L	0.000270	0.00023 mg/L	0.000270	116.71%
Fe 273.955†	215969.3	199.3	mg/L	1.24	199.3 mg/L	1.24	0.62%
K 766.490†	-118.5	-0.04960	mg/L	0.015912	-0.04960 mg/L	0.015912	32.08%
Mg 279.077†	104064.6	102.5	mg/L	0.82	102.5 mg/L	0.82	0.80%
Mn 257.610†	27.9	-0.00063	mg/L	0.000351	-0.00063 mg/L	0.000351	55.80%
Mo 202.031†	26.2	0.00243	mg/L	0.000111	0.00243 mg/L	0.000111	4.58%
Na 589.592†	17.8	0.00289	mg/L	0.005158	0.00289 mg/L	0.005158	178.63%
Na 330.237†	28.9	0.6518	mg/L	0.30053	0.6518 mg/L	0.30053	46.11%
Ni 231.604†	-1.9	-0.00111	mg/L	0.001077	-0.00111 mg/L	0.001077	96.94%
Pb 220.353†	-298.5	0.00407	mg/L	0.000289	0.00407 mg/L	0.000289	7.09%
Sb 206.836†	151.2	-0.00170	mg/L	0.002030	-0.00170 mg/L	0.002030	119.45%
Se 196.026†	-90.1	-0.01306	mg/L	0.002517	-0.01306 mg/L	0.002517	19.28%
Si 288.158†	-15.2	0.00097	mg/L	0.002449	0.00097 mg/L	0.002449	251.58%
Sn 189.927†	-52.2	-0.00618	mg/L	0.001956	-0.00618 mg/L	0.001956	31.63%
Sr 421.552†	1818.2	0.00393	mg/L	0.000068	0.00393 mg/L	0.000068	1.74%
Ti 334.903†	49.1	-0.00125	mg/L	0.000676	-0.00125 mg/L	0.000676	54.11%
Tl 190.801†	-56.1	-0.02927	mg/L	0.001651	-0.02927 mg/L	0.001651	5.64%
V 292.402†	2667.6	0.00168	mg/L	0.000658	0.00168 mg/L	0.000658	39.22%
Zn 206.200†	-11.7	-0.00049	mg/L	0.001563	-0.00049 mg/L	0.001563	316.58%

cont.

Sequence No.: 5
Sample ID: ICSAB

Autosampler Location: 23
Date Collected: 8/10/2010 12:07:59 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	165.0 kPa	0.55 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1404712.4	98.32	%	0.116			0.12%
ScR 361.383	166289.3	102.0	%	0.42			0.41%
Ag 328.068†	184048.3	1.034	mg/L	0.0046	1.034 mg/L	0.0046	0.44%
Al 308.215†	268249.8	205.8	mg/L	0.60	205.8 mg/L	0.60	0.29%
As 188.979†	1556.2	1.009	mg/L	0.0096	1.009 mg/L	0.0096	0.95%
B 249.677†	39.4	0.01668	mg/L	0.001772	0.01668 mg/L	0.001772	10.62%
Ba 233.527†	7469.9	0.9890	mg/L	0.00271	0.9890 mg/L	0.00271	0.27%
Be 313.042†	266831.1	1.020	mg/L	0.0052	1.020 mg/L	0.0052	0.51%
Ca 317.933†	826519.0	100.2	mg/L	0.40	100.2 mg/L	0.40	0.40%
Cd 228.802†	53199.7	1.018	mg/L	0.0048	1.018 mg/L	0.0048	0.47%
Co 228.616†	45335.1	0.9406	mg/L	0.00285	0.9406 mg/L	0.00285	0.30%
Cr 267.716†	3516.2	1.000	mg/L	0.0012	1.000 mg/L	0.0012	0.12%
Cu 324.752†	208336.2	1.090	mg/L	0.0043	1.090 mg/L	0.0043	0.39%
Fe 273.955†	216804.2	200.0	mg/L	0.56	200.0 mg/L	0.56	0.28%
K 766.490†	-157.0	-0.06570	mg/L	0.030286	-0.06570 mg/L	0.030286	46.10%
Mg 279.077†	105089.0	103.5	mg/L	0.35	103.5 mg/L	0.35	0.34%
Mn 257.610†	36581.4	0.9883	mg/L	0.00310	0.9883 mg/L	0.00310	0.31%
Mo 202.031†	28.9	0.00252	mg/L	0.000213	0.00252 mg/L	0.000213	8.43%
Na 589.592†	159.8	0.02592	mg/L	0.005696	0.02592 mg/L	0.005696	21.97%
Na 330.237†	39.0	0.8116	mg/L	0.32460	0.8116 mg/L	0.32460	40.00%
Ni 231.604†	1585.9	0.9677	mg/L	0.00450	0.9677 mg/L	0.00450	0.46%
Pb 220.353†	6678.5	0.9570	mg/L	0.00749	0.9570 mg/L	0.00749	0.78%
Sb 206.836†	2268.5	1.079	mg/L	0.0089	1.079 mg/L	0.0089	0.83%
Se 196.026†	958.1	1.012	mg/L	0.0059	1.012 mg/L	0.0059	0.58%
Si 288.158†	-36.8	-0.01606	mg/L	0.005595	-0.01606 mg/L	0.005595	34.84%
Sn 189.927†	-54.4	-0.00675	mg/L	0.001526	-0.00675 mg/L	0.001526	22.62%
Sr 421.552†	1988.0	0.00430	mg/L	0.000055	0.00430 mg/L	0.000055	1.28%
Ti 334.903†	39.9	-0.00201	mg/L	0.000386	-0.00201 mg/L	0.000386	19.26%
Tl 190.801†	1838.9	0.9417	mg/L	0.00610	0.9417 mg/L	0.00610	0.65%
V 292.402†	110620.1	1.023	mg/L	0.0040	1.023 mg/L	0.0040	0.39%
Zn 206.200†	1979.3	0.9394	mg/L	0.00359	0.9394 mg/L	0.00359	0.38%

Sequence No.: 6
 Sample ID: NEW ICSA

Autosampler Location: 24
 Date Collected: 8/10/2010 12:13:49 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: NEW ICSA

Analyte Back Pressure Flow
 All 166.0 kPa 0.55 L/min

Mean Data: NEW ICSA

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1389086.5	97.22	%	0.245			0.25%
ScR 361.383	164908.6	101.1	%	0.44			0.44%
Ag 328.068†	-1209.2	0.00022	mg/L	0.000434	0.00022 mg/L	0.000434	196.57%
Al 308.215†	264987.0	203.3	mg/L	0.37	203.3 mg/L	0.37	0.18%
As 188.979†	0.7	0.00043	mg/L	0.001903	0.00043 mg/L	0.001903	438.41%
B 249.677†	37.9	0.01899	mg/L	0.002156	0.01899 mg/L	0.002156	11.35%
Ba 233.527†	78.6	0.00111	mg/L	0.000327	0.00111 mg/L	0.000327	29.31%
Be 313.042†	-7.5	-0.00009	mg/L	0.000033	-0.00009 mg/L	0.000033	35.41%
Ca 317.933†	815485.2	98.88	mg/L	0.145	98.88 mg/L	0.145	0.15%
Cd 228.802†	55.4	0.00106	mg/L	0.000086	0.00106 mg/L	0.000086	8.13%
Co 228.616†	39.8	0.00082	mg/L	0.000047	0.00082 mg/L	0.000047	5.78%
Cr 267.716†	4.3	0.00071	mg/L	0.000338	0.00071 mg/L	0.000338	47.29%
Cu 324.752†	-3082.8	0.00188	mg/L	0.000209	0.00188 mg/L	0.000209	11.11%
Fe 273.955†	215933.6	199.2	mg/L	1.12	199.2 mg/L	1.12	0.56%
K 766.490†	-172.2	-0.07207	mg/L	0.009511	-0.07207 mg/L	0.009511	13.20%
Mg 279.077†	101927.0	100.4	mg/L	0.81	100.4 mg/L	0.81	0.81%
Mn 257.610†	24.6	-0.00070	mg/L	0.000335	-0.00070 mg/L	0.000335	47.48%
Mo 202.031†	25.5	0.00235	mg/L	0.000623	0.00235 mg/L	0.000623	26.46%
Na 589.592†	30.5	0.00495	mg/L	0.009145	0.00495 mg/L	0.009145	184.74%
Na 330.237†	32.8	0.8320	mg/L	0.29662	0.8320 mg/L	0.29662	35.65%
Ni 231.604†	-8.9	-0.00534	mg/L	0.000968	-0.00534 mg/L	0.000968	18.14%
Pb 220.353†	-285.9	0.00518	mg/L	0.001792	0.00518 mg/L	0.001792	34.59%
Sb 206.836†	156.2	0.00140	mg/L	0.002419	0.00140 mg/L	0.002419	173.14%
Se 196.026†	-93.6	-0.01686	mg/L	0.007984	-0.01686 mg/L	0.007984	47.34%
Si 288.158†	-31.6	-0.01310	mg/L	0.003917	-0.01310 mg/L	0.003917	29.90%
Sn 189.927†	-51.6	-0.00612	mg/L	0.001451	-0.00612 mg/L	0.001451	23.72%
Sr 421.552†	1743.2	0.00377	mg/L	0.000048	0.00377 mg/L	0.000048	1.26%
Ti 334.903†	27.5	-0.00238	mg/L	0.001472	-0.00238 mg/L	0.001472	61.82%
Tl 190.801†	-53.3	-0.02784	mg/L	0.000944	-0.02784 mg/L	0.000944	3.39%
V 292.402†	2654.2	0.00156	mg/L	0.000125	0.00156 mg/L	0.000125	8.01%
Zn 206.200†	-0.1	0.00490	mg/L	0.001961	0.00490 mg/L	0.001961	40.03%

Sequence No.: 7
Sample ID: NEW ICSAB

Autosampler Location: 25
Date Collected: 8/10/2010 12:20:06 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: NEW ICSAB

Analyte Back Pressure Flow
All 166.0 kPa 0.55 L/min

Mean Data: NEW ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1399442.7	97.95 %	0.700			0.71%
ScR 361.383	164582.0	100.9 %	0.46			0.46%
Ag 328.068†	184253.7	1.035 mg/L	0.0042	1.035 mg/L	0.0042	0.40%
Al 308.215†	262978.8	201.8 mg/L	0.10	201.8 mg/L	0.10	0.05%
As 188.979†	1542.9	1.000 mg/L	0.0082	1.000 mg/L	0.0082	0.82%
B 249.677†	49.1	0.02158 mg/L	0.001302	0.02158 mg/L	0.001302	6.03%
Ba 233.527†	7435.5	0.9846 mg/L	0.00602	0.9846 mg/L	0.00602	0.61%
Be 313.042†	264459.5	1.011 mg/L	0.0002	1.011 mg/L	0.0002	0.02%
Ca 317.933†	814217.0	98.72 mg/L	0.024	98.72 mg/L	0.024	0.02%
Cd 228.802†	52785.0	1.010 mg/L	0.0002	1.010 mg/L	0.0002	0.02%
Co 228.616†	45005.8	0.9338 mg/L	0.00205	0.9338 mg/L	0.00205	0.22%
Cr 267.716†	3499.1	0.9954 mg/L	0.00914	0.9954 mg/L	0.00914	0.92%
Cu 324.752†	206568.5	1.080 mg/L	0.0014	1.080 mg/L	0.0014	0.13%
Fe 273.955†	212901.4	196.4 mg/L	0.18	196.4 mg/L	0.18	0.09%
K 766.490†	-97.3	-0.04073 mg/L	0.007272	-0.04073 mg/L	0.007272	17.85%
Mg 279.077†	104134.6	102.6 mg/L	0.04	102.6 mg/L	0.04	0.03%
Mn 257.610†	36381.5	0.9829 mg/L	0.00699	0.9829 mg/L	0.00699	0.71%
Mo 202.031†	20.4	0.00173 mg/L	0.000462	0.00173 mg/L	0.000462	26.63%
Na 589.592†	59.5	0.00964 mg/L	0.005017	0.00964 mg/L	0.005017	52.02%
Na 330.237†	33.5	0.5750 mg/L	0.16003	0.5750 mg/L	0.16003	27.83%
Ni 231.604†	1576.1	0.9617 mg/L	0.00644	0.9617 mg/L	0.00644	0.67%
Pb 220.353†	6636.0	0.9503 mg/L	0.00844	0.9503 mg/L	0.00844	0.89%
Sb 206.836†	2098.9	0.9929 mg/L	0.01368	0.9929 mg/L	0.01368	1.38%
Se 196.026†	951.6	1.005 mg/L	0.0074	1.005 mg/L	0.0074	0.73%
Si 288.158†	-31.7	-0.01194 mg/L	0.003099	-0.01194 mg/L	0.003099	25.96%
Sn 189.927†	-49.9	-0.00560 mg/L	0.002014	-0.00560 mg/L	0.002014	35.94%
Sr 421.552†	1983.4	0.00429 mg/L	0.000027	0.00429 mg/L	0.000027	0.62%
Ti 334.903†	38.0	-0.00205 mg/L	0.000675	-0.00205 mg/L	0.000675	32.94%
Tl 190.801†	1858.1	0.9517 mg/L	0.00538	0.9517 mg/L	0.00538	0.57%
V 292.402†	109922.4	1.017 mg/L	0.0048	1.017 mg/L	0.0048	0.47%
Zn 206.200†	1962.5	0.9314 mg/L	0.00800	0.9314 mg/L	0.00800	0.86%

Sequence No.: 8
 Sample ID: CV {

Autosampler Location: 7
 Date Collected: 8/10/2010 12:27:04 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	166.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1433083.6	100.3	%	0.80				0.80%
ScR 361.383	166082.4	101.9	%	0.58				0.57%
Ag 328.068†	174473.5	0.9735	mg/L	0.01006	0.9735	mg/L	0.01006	1.03%
Al 308.215†	2692.1	2.027	mg/L	0.0212	2.027	mg/L	0.0212	1.05%
As 188.979†	3104.6	2.012	mg/L	0.0176	2.012	mg/L	0.0176	0.88%
B 249.677†	1937.4	0.9700	mg/L	0.00604	0.9700	mg/L	0.00604	0.62%
Ba 233.527†	7420.5	0.9917	mg/L	0.01092	0.9917	mg/L	0.01092	1.10%
Be 313.042†	259904.5	0.9934	mg/L	0.00124	0.9934	mg/L	0.00124	0.12%
Ca 317.933†	17119.1	2.076	mg/L	0.0181	2.076	mg/L	0.0181	0.87%
Cd 228.802†	53500.3	1.022	mg/L	0.0110	1.022	mg/L	0.0110	1.08%
Co 228.616†	47629.6	0.9867	mg/L	0.01038	0.9867	mg/L	0.01038	1.05%
Cr 267.716†	3537.3	1.007	mg/L	0.0068	1.007	mg/L	0.0068	0.67%
Cu 324.752†	207222.4	1.066	mg/L	0.0112	1.066	mg/L	0.0112	1.05%
Fe 273.955†	2173.2	2.004	mg/L	0.0256	2.004	mg/L	0.0256	1.28%
K 766.490†	48450.6	20.28	mg/L	0.074	20.28	mg/L	0.074	0.36%
Mg 279.077†	2059.9	2.035	mg/L	0.0123	2.035	mg/L	0.0123	0.61%
Mn 257.610†	37096.5	1.004	mg/L	0.0017	1.004	mg/L	0.0017	0.17%
Mo 202.031†	10713.7	0.9904	mg/L	0.00919	0.9904	mg/L	0.00919	0.93%
Na 589.592†	300809.7	48.78	mg/L	0.070	48.78	mg/L	0.070	0.14%
Na 330.237†	1128.2	51.03	mg/L	0.350	51.03	mg/L	0.350	0.69%
Ni 231.604†	1633.2	0.9968	mg/L	0.01106	0.9968	mg/L	0.01106	1.11%
Pb 220.353†	14647.2	2.000	mg/L	0.0252	2.000	mg/L	0.0252	1.26%
Sb 206.836†	4173.0	2.152	mg/L	0.0195	2.152	mg/L	0.0195	0.91%
Se 196.026†	2054.3	2.012	mg/L	0.0141	2.012	mg/L	0.0141	0.70%
Si 288.158†	2557.1	2.147	mg/L	0.0276	2.147	mg/L	0.0276	1.28%
Sn 189.927†	3376.9	0.9345	mg/L	0.00750	0.9345	mg/L	0.00750	0.80%
Sr 421.552†	468727.5	1.014	mg/L	0.0008	1.014	mg/L	0.0008	0.07%
Ti 334.903†	18596.0	0.9974	mg/L	0.00164	0.9974	mg/L	0.00164	0.16%
Tl 190.801†	3863.4	1.993	mg/L	0.0159	1.993	mg/L	0.0159	0.80%
V 292.402†	105489.1	1.003	mg/L	0.0125	1.003	mg/L	0.0125	1.24%
Zn 206.200†	2113.0	0.9975	mg/L	0.01171	0.9975	mg/L	0.01171	1.17%

Sequence No.: 9
 Sample ID: CB |

Autosampler Location: 1
 Date Collected: 8/10/2010 12:33:05 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 166.0 kPa 0.55 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1439257.1	100.7	%	1.17			1.16%
ScR 361.383	165997.3	101.8	%	0.81			0.80%
Ag 328.068†	36.2	0.00020	mg/L	0.000111	0.00020 mg/L	0.000111	54.87%
Al 308.215†	3.5	0.00267	mg/L	0.009929	0.00267 mg/L	0.009929	371.93%
As 188.979†	2.7	0.00176	mg/L	0.002780	0.00176 mg/L	0.002780	158.32%
B 249.677†	10.6	0.00531	mg/L	0.002773	0.00531 mg/L	0.002773	52.25%
Ba 233.527†	-2.6	-0.00035	mg/L	0.000647	-0.00035 mg/L	0.000647	182.53%
Be 313.042†	2.1	0.00001	mg/L	0.000010	0.00001 mg/L	0.000010	129.61%
Ca 317.933†	-0.5	-0.00006	mg/L	0.000990	-0.00006 mg/L	0.000990	>999.9%
Cd 228.802†	8.0	0.00015	mg/L	0.000065	0.00015 mg/L	0.000065	43.32%
Co 228.616†	-3.8	-0.00008	mg/L	0.000074	-0.00008 mg/L	0.000074	97.51%
Cr 267.716†	1.0	0.00028	mg/L	0.001193	0.00028 mg/L	0.001193	430.46%
Cu 324.752†	140.7	0.00072	mg/L	0.000340	0.00072 mg/L	0.000340	46.97%
Fe 273.955†	2.2	0.00201	mg/L	0.001142	0.00201 mg/L	0.001142	56.74%
K 766.490†	32.1	0.01342	mg/L	0.019790	0.01342 mg/L	0.019790	147.51%
Mg 279.077†	5.9	0.00580	mg/L	0.002575	0.00580 mg/L	0.002575	44.38%
Mn 257.610†	3.3	0.00009	mg/L	0.000065	0.00009 mg/L	0.000065	73.47%
Mo 202.031†	-0.7	-0.00007	mg/L	0.000264	-0.00007 mg/L	0.000264	387.16%
Na 589.592†	146.0	0.02368	mg/L	0.001617	0.02368 mg/L	0.001617	6.83%
Na 330.237†	-2.6	-0.1184	mg/L	0.51507	-0.1184 mg/L	0.51507	434.96%
Ni 231.604†	-1.1	-0.00066	mg/L	0.002026	-0.00066 mg/L	0.002026	309.20%
Pb 220.353†	3.4	0.00047	mg/L	0.000614	0.00047 mg/L	0.000614	130.60%
Sb 206.836†	0.2	0.00013	mg/L	0.002929	0.00013 mg/L	0.002929	>999.9%
Se 196.026†	6.2	0.00605	mg/L	0.004600	0.00605 mg/L	0.004600	76.03%
Si 288.158†	0.5	0.00040	mg/L	0.000717	0.00040 mg/L	0.000717	180.22%
Sn 189.927†	7.6	0.00210	mg/L	0.000771	0.00210 mg/L	0.000771	36.76%
Sr 421.552†	36.4	0.00008	mg/L	0.000121	0.00008 mg/L	0.000121	154.11%
Ti 334.903†	-26.7	-0.00143	mg/L	0.000066	-0.00143 mg/L	0.000066	4.61%
Tl 190.801†	3.6	0.00190	mg/L	0.001420	0.00190 mg/L	0.001420	74.92%
V 292.402†	16.7	0.00016	mg/L	0.000199	0.00016 mg/L	0.000199	124.73%
Zn 206.200†	1.8	0.00086	mg/L	0.001243	0.00086 mg/L	0.001243	144.47%

Sequence No.: 10
Sample ID: RG62 MB1 SWC

Autosampler Location: 26
Date Collected: 8/10/2010 12:39:03 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG62 MB1 SWC

Analyte Back Pressure Flow
All 166.0 kPa 0.55 L/min

Mean Data: RG62 MB1 SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1479829.4	103.6 %	%	0.87			0.84%
ScR 361.383	168440.0	103.3 %	%	1.29			1.25%
Ag 328.068†	35.7	0.00020 mg/L	mg/L	0.000339	0.00040 mg/L	0.000677	169.81%
Al 308.215†	13.4	0.01032 mg/L	mg/L	0.008823	0.02064 mg/L	0.017645	85.48%
As 188.979†	-0.3	-0.00022 mg/L	mg/L	0.001720	-0.00044 mg/L	0.003441	784.56%
B 249.677†	8.2	0.00413 mg/L	mg/L	0.001597	0.00826 mg/L	0.003195	38.70%
Ba 233.527†	-1.7	-0.00023 mg/L	mg/L	0.000583	-0.00046 mg/L	0.001166	255.07%
Be 313.042†	-4.4	-0.00002 mg/L	mg/L	0.000049	-0.00003 mg/L	0.000099	293.27%
Ca 317.933†	100.7	0.01221 mg/L	mg/L	0.001498	0.02443 mg/L	0.002996	12.27%
Cd 228.802†	1.5	0.00003 mg/L	mg/L	0.000072	0.00006 mg/L	0.000144	248.37%
Co 228.616†	1.4	0.00003 mg/L	mg/L	0.000040	0.00006 mg/L	0.000080	125.96%
Cr 267.716†	-2.0	-0.00056 mg/L	mg/L	0.000924	-0.00112 mg/L	0.001849	165.18%
Cu 324.752†	-76.0	-0.00039 mg/L	mg/L	0.000149	-0.00078 mg/L	0.000297	38.10%
Fe 273.955†	1.9	0.00179 mg/L	mg/L	0.002435	0.00359 mg/L	0.004869	135.78%
K 766.490†	-68.1	-0.02852 mg/L	mg/L	0.013844	-0.05704 mg/L	0.027688	48.54%
Mg 279.077†	11.1	0.01091 mg/L	mg/L	0.004549	0.02181 mg/L	0.009098	41.72%
Mn 257.610†	-4.6	-0.00012 mg/L	mg/L	0.000226	-0.00025 mg/L	0.000453	183.78%
Mo 202.031†	-0.5	-0.00004 mg/L	mg/L	0.000031	-0.00009 mg/L	0.000063	72.25%
Na 589.592†	-41.6	-0.00675 mg/L	mg/L	0.004539	-0.01350 mg/L	0.009079	67.27%
Na 330.237†	12.5	0.5642 mg/L	mg/L	0.47616	1.128 mg/L	0.9523	84.40%
Ni 231.604†	2.1	0.00127 mg/L	mg/L	0.000950	0.00254 mg/L	0.001900	74.88%
Pb 220.353†	-2.1	-0.00028 mg/L	mg/L	0.001128	-0.00056 mg/L	0.002256	402.82%
Sb 206.836†	-0.3	-0.00013 mg/L	mg/L	0.001439	-0.00025 mg/L	0.002878	>999.9%
Se 196.026†	1.9	0.00187 mg/L	mg/L	0.002525	0.00374 mg/L	0.005049	134.91%
Si 288.158†	-5.2	-0.00439 mg/L	mg/L	0.003350	-0.00878 mg/L	0.006700	76.34%
Sn 189.927†	2.9	0.00081 mg/L	mg/L	0.000628	0.00162 mg/L	0.001257	77.54%
Sr 421.552†	-8.8	-0.00002 mg/L	mg/L	0.000032	-0.00004 mg/L	0.000065	170.01%
Ti 334.903†	-32.2	-0.00173 mg/L	mg/L	0.001098	-0.00345 mg/L	0.002197	63.59%
Tl 190.801†	-1.9	-0.00099 mg/L	mg/L	0.000828	-0.00199 mg/L	0.001657	83.32%
V 292.402†	5.7	0.00005 mg/L	mg/L	0.000199	0.00010 mg/L	0.000398	389.61%
Zn 206.200†	0.1	0.00007 mg/L	mg/L	0.001383	0.00014 mg/L	0.002765	>999.9%

Sequence No.: 11
 Sample ID: RH52 MB LEN

Autosampler Location: 27
 Date Collected: 8/10/2010 12:45:03 PM
 Data Type: Original

Dilution: 5X

Nebulizer Parameters: RH52 MB LEN

Analyte Back Pressure Flow
 All 167.0 kPa 0.55 L/min

Mean Data: RH52 MB LEN

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1423915.4	99.66	%	1.092			1.10%
ScR 361.383	168151.7	103.1	%	0.34			0.33%
Ag 328.068†	37.2	0.00021	mg/L	0.000365	0.00103 mg/L	0.001823	177.36%
Al 308.215†	-1.5	-0.00117	mg/L	0.020223	-0.00586 mg/L	0.101113	>999.9%
As 188.979†	-1.9	-0.00126	mg/L	0.000720	-0.00629 mg/L	0.003599	57.23%
B 249.677†	42.7	0.02142	mg/L	0.001903	0.1071 mg/L	0.00951	8.88%
Ba 233.527†	104.4	0.01396	mg/L	0.000369	0.06982 mg/L	0.001845	2.64%
Be 313.042†	-18.1	-0.00007	mg/L	0.000065	-0.00035 mg/L	0.000326	93.97%
Ca 317.933†	2255.2	0.2734	mg/L	0.00175	1.367 mg/L	0.0088	0.64%
Cd 228.802†	1.7	0.00004	mg/L	0.000046	0.00018 mg/L	0.000228	128.00%
Co 228.616†	-1.6	-0.00003	mg/L	0.000114	-0.00017 mg/L	0.000569	340.92%
Cr 267.716†	-0.3	-0.00009	mg/L	0.001303	-0.00046 mg/L	0.006517	>999.9%
Cu 324.752†	33.4	0.00017	mg/L	0.000151	0.00086 mg/L	0.000757	87.85%
Fe 273.955†	0.6	0.00055	mg/L	0.000275	0.00277 mg/L	0.001375	49.62%
K 766.490†	216.7	0.09069	mg/L	0.047958	0.4535 mg/L	0.23979	52.88%
Mg 279.077†	47.3	0.04662	mg/L	0.004180	0.2331 mg/L	0.02090	8.97%
Mn 257.610†	1.8	0.00005	mg/L	0.000059	0.00024 mg/L	0.000297	124.10%
Mo 202.031†	-1.7	-0.00016	mg/L	0.000110	-0.00079 mg/L	0.000552	70.01%
Na 589.592†	1614018.8	261.8	mg/L	0.23	1309 mg/L	1.2	0.09%
Na 330.237†	6053.1	274.4	mg/L	0.54	1372 mg/L	2.7	0.20%
Ni 231.604†	1.9	0.00114	mg/L	0.002977	0.00568 mg/L	0.014887	262.16%
Pb 220.353†	5.2	0.00071	mg/L	0.001860	0.00354 mg/L	0.009299	262.48%
Sb 206.836†	4.4	0.00229	mg/L	0.002745	0.01146 mg/L	0.013723	119.77%
Se 196.026†	1.2	0.00113	mg/L	0.005420	0.00566 mg/L	0.027100	478.56%
Si 288.158†	25.3	0.02119	mg/L	0.011386	0.1060 mg/L	0.05693	53.73%
Sn 189.927†	3.8	0.00107	mg/L	0.000223	0.00536 mg/L	0.001113	20.77%
Sr 421.552†	147.7	0.00032	mg/L	0.000061	0.00160 mg/L	0.000303	18.94%
Ti 334.903†	-41.5	-0.00224	mg/L	0.001473	-0.01119 mg/L	0.007363	65.78%
Tl 190.801†	2.3	0.00121	mg/L	0.002434	0.00606 mg/L	0.012169	200.90%
V 292.402†	9.3	0.00009	mg/L	0.000121	0.00044 mg/L	0.000607	138.39%
Zn 206.200†	17.9	0.00844	mg/L	0.000991	0.04222 mg/L	0.004954	11.73%

Sequence No.: 12
 Sample ID: RH52 ADUP LEN

Autosampler Location: 28
 Date Collected: 8/10/2010 12:51:23 PM
 Data Type: Original

Dilution: 5X

Nebulizer Parameters: RH52 ADUP LEN

Analyte Back Pressure Flow
 All 169.0 kPa 0.55 L/min

Mean Data: RH52 ADUP LEN

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	1426932.9	99.87	%	1.625			1.63%
ScR 361.383	167480.7	102.7	%	0.69			0.67%
Ag 328.068†	65.4	0.00020	mg/L	0.000242	0.00098 mg/L	0.001212	123.31%
Al 308.215†	105.2	0.08069	mg/L	0.001907	0.4035 mg/L	0.00953	2.36%
As 188.979†	-1.0	-0.00067	mg/L	0.002202	-0.00335 mg/L	0.011011	328.22%
B 249.677†	26.7	0.01338	mg/L	0.003066	0.06692 mg/L	0.015332	22.91%
Ba 233.527†	463.4	0.06197	mg/L	0.001298	0.3098 mg/L	0.00649	2.09%
Be 313.042†	-4.0	-0.00002	mg/L	0.000028	-0.00008 mg/L	0.000141	174.59%
Ca 317.933†	121820.7	14.77	mg/L	0.059	73.85 mg/L	0.295	0.40%
Cd 228.802†	205.0	0.00393	mg/L	0.000108	0.01967 mg/L	0.000538	2.74%
Co 228.616†	155.2	0.00321	mg/L	0.000041	0.01603 mg/L	0.000203	1.26%
Cr 267.716†	3.7	0.00075	mg/L	0.000843	0.00375 mg/L	0.004217	112.41%
Cu 324.752†	1056.2	0.00543	mg/L	0.000132	0.02717 mg/L	0.000658	2.42%
Fe 273.955†	10.1	0.00930	mg/L	0.002969	0.04652 mg/L	0.014846	31.91%
K 766.490†	3714.3	1.555	mg/L	0.0179	7.773 mg/L	0.0894	1.15%
Mg 279.077†	1569.3	1.548	mg/L	0.0137	7.739 mg/L	0.0684	0.88%
Mn 257.610†	10808.6	0.2923	mg/L	0.00026	1.462 mg/L	0.0013	0.09%
Mo 202.031†	3.2	0.00029	mg/L	0.000412	0.00144 mg/L	0.002060	143.28%
Na 589.592†	1570646.1	254.7	mg/L	2.10	1274 mg/L	10.5	0.82%
Na 330.237†	5967.3	270.4	mg/L	1.16	1352 mg/L	5.8	0.43%
Ni 231.604†	6.8	0.00417	mg/L	0.002610	0.02083 mg/L	0.013049	62.65%
Pb 220.353†	9.3	0.00129	mg/L	0.000786	0.00643 mg/L	0.003930	61.08%
Sb 206.836†	4.6	0.00232	mg/L	0.001514	0.01158 mg/L	0.007571	65.39%
Se 196.026†	3.0	0.00267	mg/L	0.002412	0.01335 mg/L	0.012058	90.36%
Si 288.158†	2237.2	1.876	mg/L	0.0069	9.380 mg/L	0.0346	0.37%
Sn 189.927†	-2.7	0.00009	mg/L	0.000483	0.00045 mg/L	0.002417	538.29%
Sr 421.552†	37738.5	0.08162	mg/L	0.000153	0.4081 mg/L	0.00077	0.19%
Ti 334.903†	-18.0	-0.00154	mg/L	0.000582	-0.00771 mg/L	0.002909	37.73%
Tl 190.801†	2.6	0.00092	mg/L	0.001548	0.00461 mg/L	0.007741	167.91%
V 292.402†	29.6	0.00033	mg/L	0.000252	0.00164 mg/L	0.001258	76.53%
Zn 206.200†	200.0	0.09490	mg/L	0.001875	0.4745 mg/L	0.00938	1.98%

Sequence No.: 13
Sample ID: RH52 A LEN

Autosampler Location: 29
Date Collected: 8/10/2010 12:57:42 PM
Data Type: Original

Dilution: 5X

Nebulizer Parameters: RH52 A LEN

Analyte Back Pressure Flow
All 170.0 kPa 0.55 L/min

Mean Data: RH52 A LEN

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1443919.9	101.1	%	0.11			0.11%
ScR 361.383	170649.2	104.7	%	2.10			2.00%
Ag 328.068†	47.4	0.00009	mg/L	0.000262	0.00046 mg/L	0.001310	282.54%
Al 308.215†	110.7	0.08494	mg/L	0.005887	0.4247 mg/L	0.02943	6.93%
As 188.979†	-0.1	-0.00005	mg/L	0.000407	-0.00023 mg/L	0.002035	900.36%
B 249.677†	30.2	0.01512	mg/L	0.000838	0.07558 mg/L	0.004188	5.54%
Ba 233.527†	470.8	0.06296	mg/L	0.000518	0.3148 mg/L	0.00259	0.82%
Be 313.042†	6.2	0.00002	mg/L	0.000026	0.00011 mg/L	0.000130	113.43%
Ca 317.933†	124326.3	15.07	mg/L	0.030	75.37 mg/L	0.150	0.20%
Cd 228.802†	205.1	0.00393	mg/L	0.000014	0.01967 mg/L	0.000071	0.36%
Co 228.616†	149.5	0.00309	mg/L	0.000113	0.01544 mg/L	0.000566	3.66%
Cr 267.716†	3.9	0.00081	mg/L	0.000535	0.00405 mg/L	0.002676	66.14%
Cu 324.752†	1010.9	0.00520	mg/L	0.000086	0.02601 mg/L	0.000429	1.65%
Fe 273.955†	7.8	0.00716	mg/L	0.002153	0.03582 mg/L	0.010766	30.05%
K 766.490†	3689.3	1.544	mg/L	0.0606	7.720 mg/L	0.3028	3.92%
Mg 279.077†	1605.9	1.584	mg/L	0.0098	7.920 mg/L	0.0489	0.62%
Mn 257.610†	10965.1	0.2966	mg/L	0.00165	1.483 mg/L	0.0083	0.56%
Mo 202.031†	3.6	0.00033	mg/L	0.000204	0.00163 mg/L	0.001021	62.77%
Na 589.592†	1585209.2	257.1	mg/L	4.15	1285 mg/L	20.7	1.61%
Na 330.237†	6015.3	272.6	mg/L	1.64	1363 mg/L	8.2	0.60%
Ni 231.604†	11.8	0.00720	mg/L	0.002074	0.03600 mg/L	0.010369	28.80%
Pb 220.353†	6.5	0.00091	mg/L	0.000281	0.00456 mg/L	0.001404	30.80%
Sb 206.836†	2.6	0.00128	mg/L	0.000326	0.00638 mg/L	0.001630	25.54%
Se 196.026†	6.2	0.00577	mg/L	0.004205	0.02885 mg/L	0.021026	72.88%
Si 288.158†	2344.8	1.966	mg/L	0.0231	9.831 mg/L	0.1155	1.17%
Sn 189.927†	-1.9	0.00034	mg/L	0.000148	0.00170 mg/L	0.000740	43.62%
Sr 421.552†	37995.6	0.08218	mg/L	0.000527	0.4109 mg/L	0.00264	0.64%
Ti 334.903†	-28.4	-0.00211	mg/L	0.001032	-0.01056 mg/L	0.005162	48.87%
Tl 190.801†	-1.3	-0.00108	mg/L	0.001533	-0.00542 mg/L	0.007665	141.30%
V 292.402†	38.2	0.00041	mg/L	0.000258	0.00206 mg/L	0.001292	62.70%
Zn 206.200†	206.6	0.09802	mg/L	0.000913	0.4901 mg/L	0.00457	0.93%

Sequence No.: 14
Sample ID: RH52 ASPK LEN

Autosampler Location: 30
Date Collected: 8/10/2010 1:04:01 PM
Data Type: Original

Dilution: 5X

Nebulizer Parameters: RH52 ASPK LEN

Analyte Back Pressure Flow
All 168.0 kPa 0.55 L/min

Mean Data: RH52 ASPK LEN

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1421393.4	99.48 %	0.880			0.88%
ScR 361.383	168180.1	103.1 %	1.26			1.23%
Ag 328.068†	36278.0	0.2023 mg/L	0.00142	1.011 mg/L	0.0071	0.70%
Al 308.215†	1178.4	0.9009 mg/L	0.00980	4.505 mg/L	0.0490	1.09%
As 188.979†	1282.5	0.8315 mg/L	0.00979	4.157 mg/L	0.0489	1.18%
B 249.677†	32.6	0.01570 mg/L	0.003404	0.07849 mg/L	0.017020	21.68%
Ba 233.527†	6407.4	0.8566 mg/L	0.00857	4.283 mg/L	0.0428	1.00%
Be 313.042†	53953.5	0.2062 mg/L	0.00060	1.031 mg/L	0.0030	0.29%
Ca 317.933†	157708.3	19.12 mg/L	0.059	95.61 mg/L	0.296	0.31%
Cd 228.802†	11079.1	0.2110 mg/L	0.00099	1.055 mg/L	0.0050	0.47%
Co 228.616†	9410.8	0.1951 mg/L	0.00182	0.9754 mg/L	0.00912	0.94%
Cr 267.716†	718.3	0.2040 mg/L	0.00105	1.020 mg/L	0.0052	0.51%
Cu 324.752†	42859.3	0.2206 mg/L	0.00116	1.103 mg/L	0.0058	0.53%
Fe 273.955†	906.1	0.8358 mg/L	0.01018	4.179 mg/L	0.0509	1.22%
K 766.490†	13567.1	5.678 mg/L	0.0143	28.39 mg/L	0.071	0.25%
Mg 279.077†	5699.0	5.621 mg/L	0.0421	28.10 mg/L	0.210	0.75%
Mn 257.610†	18424.7	0.4985 mg/L	0.00195	2.493 mg/L	0.0098	0.39%
Mo 202.031†	8.2	0.00072 mg/L	0.000449	0.00362 mg/L	0.002246	61.95%
Na 589.592†	1618206.3	262.4 mg/L	2.07	1312 mg/L	10.4	0.79%
Na 330.237†	6184.8	280.2 mg/L	0.39	1401 mg/L	2.0	0.14%
Ni 231.604†	334.2	0.2035 mg/L	0.00344	1.017 mg/L	0.0172	1.69%
Pb 220.353†	5752.7	0.7853 mg/L	0.00708	3.927 mg/L	0.0354	0.90%
Sb 206.836†	7.5	0.00088 mg/L	0.002058	0.00442 mg/L	0.010290	233.03%
Se 196.026†	865.2	0.8479 mg/L	0.00585	4.239 mg/L	0.0292	0.69%
Si 288.158†	2437.5	2.045 mg/L	0.0242	10.22 mg/L	0.121	1.18%
Sn 189.927†	-6.3	-0.00055 mg/L	0.000765	-0.00275 mg/L	0.003826	138.99%
Sr 421.552†	133268.4	0.2882 mg/L	0.00099	1.441 mg/L	0.0049	0.34%
Ti 334.903†	-19.0	-0.00182 mg/L	0.000264	-0.00909 mg/L	0.001318	14.50%
Tl 190.801†	1492.7	0.7723 mg/L	0.01000	3.861 mg/L	0.0500	1.29%
V 292.402†	22352.3	0.2114 mg/L	0.00132	1.057 mg/L	0.0066	0.62%
Zn 206.200†	624.3	0.2955 mg/L	0.00139	1.477 mg/L	0.0069	0.47%

Sequence No.: 15
Sample ID: RG60 D SWC

Autosampler Location: 31
Date Collected: 8/10/2010 1:10:21 PM
Data Type: Original

Dilution: 5X

Nebulizer Parameters: RG60 D SWC

Analyte Back Pressure Flow
All 169.0 kPa 0.55 L/min

Mean Data: RG60 D SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1505492.3	105.4 %	%	0.56			0.53%
ScR 361.383	176450.9	108.2 %	%	0.12			0.11%
Ag 328.068†	-755.3	0.00002 mg/L	mg/L	0.000245	0.00008 mg/L	0.001225	>999.9%
Al 308.215†	100874.1	77.38 mg/L	mg/L	0.034	386.9 mg/L	0.17	0.04%
As 188.979†	16.2	0.01474 mg/L	mg/L	0.004582	0.07368 mg/L	0.022911	31.10%
B 249.677†	29.4	0.01453 mg/L	mg/L	0.002384	0.07263 mg/L	0.011921	16.41%
Ba 233.527†	1629.2	0.2120 mg/L	mg/L	0.00085	1.060 mg/L	0.0042	0.40%
Be 313.042†	409.1	0.00076 mg/L	mg/L	0.000012	0.00381 mg/L	0.000062	1.63%
Ca 317.933†	262057.6	31.77 mg/L	mg/L	0.051	158.9 mg/L	0.25	0.16%
Cd 228.802†	49.3	0.00097 mg/L	mg/L	0.000015	0.00484 mg/L	0.000076	1.57%
Co 228.616†	3089.1	0.06027 mg/L	mg/L	0.000344	0.3014 mg/L	0.00172	0.57%
Cr 267.716†	500.8	0.1432 mg/L	mg/L	0.00080	0.7161 mg/L	0.00400	0.56%
Cu 324.752†	49317.1	0.2639 mg/L	mg/L	0.00192	1.320 mg/L	0.0096	0.73%
Fe 273.955†	131429.2	121.3 mg/L	mg/L	0.11	606.3 mg/L	0.57	0.09%
K 766.490†	4412.6	1.847 mg/L	mg/L	0.0120	9.234 mg/L	0.0602	0.65%
Mg 279.077†	42004.0	41.36 mg/L	mg/L	0.001	206.8 mg/L	0.01	0.00%
Mn 257.610†	64181.1	1.735 mg/L	mg/L	0.0026	8.677 mg/L	0.0128	0.15%
Mo 202.031†	25.7	0.00234 mg/L	mg/L	0.000174	0.01172 mg/L	0.000870	7.42%
Na 589.592†	20926.2	3.394 mg/L	mg/L	0.0160	16.97 mg/L	0.080	0.47%
Na 330.237†	92.1	4.346 mg/L	mg/L	0.2875	21.73 mg/L	1.437	6.61%
Ni 231.604†	272.4	0.1661 mg/L	mg/L	0.00235	0.8307 mg/L	0.01175	1.42%
Pb 220.353†	537.0	0.08717 mg/L	mg/L	0.001939	0.4359 mg/L	0.00969	2.22%
Sb 206.836†	57.8	-0.00563 mg/L	mg/L	0.001047	-0.02816 mg/L	0.005237	18.60%
Se 196.026†	-45.9	-0.01078 mg/L	mg/L	0.004726	-0.05392 mg/L	0.023630	43.83%
Si 288.158†	3022.0	2.539 mg/L	mg/L	0.0200	12.70 mg/L	0.100	0.79%
Sn 189.927†	-20.0	-0.00183 mg/L	mg/L	0.000411	-0.00915 mg/L	0.002057	22.49%
Sr 421.552†	114959.1	0.2486 mg/L	mg/L	0.00031	1.243 mg/L	0.0015	0.12%
Ti 334.903†	40428.1	2.170 mg/L	mg/L	0.0026	10.85 mg/L	0.013	0.12%
Tl 190.801†	-10.5	-0.01335 mg/L	mg/L	0.002348	-0.06673 mg/L	0.011738	17.59%
V 292.402†	31949.1	0.2855 mg/L	mg/L	0.00311	1.427 mg/L	0.0156	1.09%
Zn 206.200†	516.0	0.2454 mg/L	mg/L	0.00239	1.227 mg/L	0.0120	0.97%

Sequence No.: 16
 Sample ID: RG62 BDUP SWC

Autosampler Location: 32
 Date Collected: 8/10/2010 1:16:21 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG62 BDUP SWC

Analyte Back Pressure Flow
 All 169.0 kPa 0.55 L/min

Mean Data: RG62 BDUP SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1484021.2	103.9	%	0.09			0.09%
ScR 361.383	173997.5	106.7	%	1.49			1.40%
Ag 328.068†	-328.7	0.00024	mg/L	0.000217	0.00048 mg/L	0.000434	90.34%
Al 308.215†	104566.2	80.20	mg/L	1.130	160.4 mg/L	2.26	1.41%
As 188.979†	4.5	0.01588	mg/L	0.003075	0.03175 mg/L	0.006151	19.37%
B 249.677†	29.9	0.01486	mg/L	0.001823	0.02973 mg/L	0.003646	12.27%
Ba 233.527†	1393.0	0.1832	mg/L	0.00212	0.3664 mg/L	0.00425	1.16%
Be 313.042†	278.0	0.00005	mg/L	0.000056	0.00009 mg/L	0.000111	122.13%
Ca 317.933†	340614.9	41.30	mg/L	0.612	82.60 mg/L	1.223	1.48%
Cd 228.802†	30.0	0.00058	mg/L	0.000084	0.00117 mg/L	0.000167	14.36%
Co 228.616†	1360.5	0.01681	mg/L	0.000080	0.03362 mg/L	0.000160	0.48%
Cr 267.716†	351.6	0.1001	mg/L	0.00085	0.2003 mg/L	0.00169	0.85%
Cu 324.752†	26118.7	0.1382	mg/L	0.00046	0.2764 mg/L	0.00092	0.33%
Fe 273.955†	67222.4	62.02	mg/L	1.040	124.0 mg/L	2.08	1.68%
K 766.490†	9842.0	4.119	mg/L	0.0918	8.238 mg/L	0.1836	2.23%
Mg 279.077†	14986.4	14.74	mg/L	0.176	29.49 mg/L	0.353	1.20%
Mn 257.610†	20034.7	0.5413	mg/L	0.00710	1.083 mg/L	0.0142	1.31%
Mo 202.031†	42.6	0.00391	mg/L	0.000490	0.00782 mg/L	0.000980	12.53%
Na 589.592†	42749.7	6.933	mg/L	0.1153	13.87 mg/L	0.231	1.66%
Na 330.237†	155.6	8.087	mg/L	0.3015	16.17 mg/L	0.603	3.73%
Ni 231.604†	91.1	0.05557	mg/L	0.000599	0.1111 mg/L	0.00120	1.08%
Pb 220.353†	17.9	0.02106	mg/L	0.001510	0.04211 mg/L	0.003020	7.17%
Sb 206.836†	37.9	-0.00014	mg/L	0.003102	-0.00028 mg/L	0.006205	>999.9%
Se 196.026†	-23.9	0.00255	mg/L	0.005154	0.00511 mg/L	0.010309	201.85%
Si 288.158†	3126.6	2.624	mg/L	0.0292	5.247 mg/L	0.0585	1.11%
Sn 189.927†	-19.0	-0.00010	mg/L	0.002314	-0.00020 mg/L	0.004627	>999.9%
Sr 421.552†	237860.4	0.5144	mg/L	0.00710	1.029 mg/L	0.0142	1.38%
Ti 334.903†	122051.6	6.553	mg/L	0.0946	13.11 mg/L	0.189	1.44%
Tl 190.801†	12.3	-0.00729	mg/L	0.004876	-0.01458 mg/L	0.009753	66.89%
V 292.402†	38154.1	0.3466	mg/L	0.00072	0.6933 mg/L	0.00144	0.21%
Zn 206.200†	491.1	0.2334	mg/L	0.00524	0.4668 mg/L	0.01047	2.24%

Sequence No.: 17
 Sample ID: RG62 B SWC

Autosampler Location: 33
 Date Collected: 8/10/2010 1:22:25 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG62 B SWC

Analyte Back Pressure Flow
 All 169.0 kPa 0.55 L/min

Mean Data: RG62 B SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1485125.4	103.9	%	1.04			1.00%
ScR 361.383	173826.8	106.6	%	0.77			0.72%
Ag 328.068†	-403.5	-0.00001	mg/L	0.000170	-0.00002 mg/L	0.000340	>999.9%
Al 308.215†	106044.2	81.34	mg/L	0.135	162.7 mg/L	0.27	0.17%
As 188.979†	-2.1	0.01180	mg/L	0.002006	0.02359 mg/L	0.004013	17.01%
B 249.677†	31.8	0.01583	mg/L	0.004164	0.03167 mg/L	0.008327	26.30%
Ba 233.527†	1297.0	0.1701	mg/L	0.00105	0.3402 mg/L	0.00211	0.62%
Be 313.042†	298.0	0.00009	mg/L	0.000030	0.00018 mg/L	0.000059	33.37%
Ca 317.933†	354320.1	42.96	mg/L	0.069	85.92 mg/L	0.139	0.16%
Cd 228.802†	26.3	0.00052	mg/L	0.000121	0.00104 mg/L	0.000241	23.12%
Co 228.616†	1505.2	0.01967	mg/L	0.000344	0.03934 mg/L	0.000688	1.75%
Cr 267.716†	371.2	0.1057	mg/L	0.00165	0.2114 mg/L	0.00331	1.56%
Cu 324.752†	25235.6	0.1341	mg/L	0.00200	0.2682 mg/L	0.00399	1.49%
Fe 273.955†	72664.3	67.04	mg/L	0.103	134.1 mg/L	0.21	0.15%
K 766.490†	11005.7	4.606	mg/L	0.0195	9.212 mg/L	0.0389	0.42%
Mg 279.077†	18836.4	18.54	mg/L	0.018	37.08 mg/L	0.036	0.10%
Mn 257.610†	23987.2	0.6482	mg/L	0.00053	1.296 mg/L	0.0011	0.08%
Mo 202.031†	44.5	0.00409	mg/L	0.000368	0.00818 mg/L	0.000736	9.00%
Na 589.592†	41655.4	6.756	mg/L	0.0175	13.51 mg/L	0.035	0.26%
Na 330.237†	158.2	8.210	mg/L	0.2439	16.42 mg/L	0.488	2.97%
Ni 231.604†	100.3	0.06121	mg/L	0.002198	0.1224 mg/L	0.00440	3.59%
Pb 220.353†	-20.2	0.01586	mg/L	0.000562	-0.03171 mg/L	0.001124	3.55%
Sb 206.836†	34.4	-0.00295	mg/L	0.003915	-0.00591 mg/L	0.007829	132.57%
Se 196.026†	-25.5	0.00186	mg/L	0.005071	0.00371 mg/L	0.010142	273.25%
Si 288.158†	3451.5	2.897	mg/L	0.0136	5.793 mg/L	0.0271	0.47%
Sn 189.927†	-21.9	-0.00068	mg/L	0.000639	-0.00137 mg/L	0.001278	93.56%
Sr 421.552†	209531.9	0.4532	mg/L	0.00029	0.9063 mg/L	0.00059	0.07%
Ti 334.903†	123629.7	6.638	mg/L	0.0046	13.28 mg/L	0.009	0.07%
Tl 190.801†	10.5	-0.00859	mg/L	0.001313	-0.01717 mg/L	0.002627	15.29%
V 292.402†	39474.4	0.3584	mg/L	0.00460	0.7169 mg/L	0.00920	1.28%
Zn 206.200†	474.8	0.2258	mg/L	0.00111	0.4517 mg/L	0.00223	0.49%

Sequence No.: 18
Sample ID: RG62 BSPK SWC

Autosampler Location: 34
Date Collected: 8/10/2010 1:28:28 PM
Data Type: Original

Dilution: 2X

22222
QW 8.10

Nebulizer Parameters: RG62 BSPK SWC

Analyte Back Pressure Flow
All 169.0 kPa 0.55 L/min

tubing disconnect

Mean Data: RG62 BSPK SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	28330.3	1.983	%	0.0334			1.68%
ScR 361.383	-64.0	-0.03922	%	0.007268			18.53%
Ag 328.068†	-9098.6	-0.04945	mg/L	0.005363	-0.09890 mg/L	0.010726	10.85%
Al 308.215†	394565.8	302.8	mg/L	53.84	605.6 mg/L	107.67	17.78%
As 188.979†	209.5	0.08731	mg/L	0.103818	0.1746 mg/L	0.20764	118.91%
B 249.677†	19801.2	9.926	mg/L	2.8092	19.85 mg/L	5.618	28.30%
Ba 233.527†	-22372.4	-2.997	mg/L	0.4850	-5.994 mg/L	0.9700	16.18%
Be 313.042†	-887488.3	-3.401	mg/L	0.6777	-6.802 mg/L	1.3555	19.93%
Ca 317.933†	144659.5	17.54	mg/L	5.263	35.08 mg/L	10.526	30.01%
Cd 228.802†	308.7	0.01552	mg/L	0.002867	0.03104 mg/L	0.005735	18.48%
Co 228.616†	-2807.9	-0.02749	mg/L	0.005921	-0.05497 mg/L	0.011843	21.54%
Cr 267.716†	42678.7	12.14	mg/L	2.009	24.29 mg/L	4.019	16.55%
Cu 324.752†	22034.9	0.1213	mg/L	0.00321	0.2425 mg/L	0.00643	2.65%
Fe 273.955†	30765.5	28.38	mg/L	8.902	56.75 mg/L	17.805	31.37%
K 766.490†	-5153893.8	-2157	mg/L	469.6	-4314 mg/L	939.2	21.77%
Mg 279.077†	65840.9	64.93	mg/L	10.986	129.9 mg/L	21.97	16.92%
Mn 257.610†	-70763.7	-1.916	mg/L	0.4761	-3.832 mg/L	0.9522	24.85%
Mo 202.031†	394.8	0.03498	mg/L	0.006576	0.06996 mg/L	0.013153	18.80%
Na 589.592†	-2208237.0	-358.1	mg/L	75.91	-716.2 mg/L	151.82	21.20%
Na 330.237†	259397.2	11750	mg/L	2815.5	23510 mg/L	5631.1	23.95%
Ni 231.604†	55573.8	33.89	mg/L	8.223	67.78 mg/L	16.446	24.26%
Pb 220.353†	3840.6	0.6260	mg/L	0.02229	1.252 mg/L	0.0446	3.56%
Sb 206.836†	2262.3	0.8695	mg/L	0.03337	1.739 mg/L	0.0667	3.84%
Se 196.026†	-787.3	-0.7458	mg/L	0.10966	-1.492 mg/L	0.2193	14.70%
Si 288.158†	4400.8	3.711	mg/L	4.2565	7.421 mg/L	8.5130	114.72%
Sn 189.927†	-109.6	-0.03488	mg/L	0.030532	-0.06976 mg/L	0.061065	87.54%
Sr 421.552†	-485268.2	-1.050	mg/L	0.1094	-2.099 mg/L	0.2188	10.42%
Ti 334.903†	-356857.7	-19.17	mg/L	5.620	-38.34 mg/L	11.240	29.32%
Tl 190.801†	-284.2	-0.1168	mg/L	0.05171	-0.2335 mg/L	0.10343	44.29%
V 292.402†	8770.2	0.1723	mg/L	0.01884	0.3446 mg/L	0.03768	10.93%
Zn 206.200†	14042.9	6.627	mg/L	2.1089	13.25 mg/L	4.218	31.82%

User canceled analysis.

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Analysis Begun

Start Time: 8/10/2010 1:34:21 PM

Plasma On Time: 8/10/2010 10:18:38 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0810.sif

Batch ID:

Results Data Set: PE100810

Results Library: C:\pe\metals\Results\Results.mdb

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Sequence No.: 19

Autosampler Location: 35

Sample ID: RG62 MB1SPK SWC

Date Collected: 8/10/2010 1:34:23 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG62 MB1SPK SWC

Analyte	Back Pressure	Flow
All	170.0 kPa	0.55 L/min

Mean Data: RG62 MB1SPK SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	1481611.5	103.7	%	0.85			0.82%
ScR 361.383	173169.3	106.2	%	0.26			0.24%
Ag 328.068†	90344.5	0.5041	mg/L	0.00502	1.008	mg/L	0.0100 0.99%
Al 308.215†	2705.8	2.068	mg/L	0.0100	4.136	mg/L	0.0200 0.48%
As 188.979†	3181.1	2.062	mg/L	0.0187	4.125	mg/L	0.0375 0.91%
B 249.677†	6.2	0.00150	mg/L	0.001084	0.00300	mg/L	0.002167 72.17%
Ba 233.527†	15067.9	2.014	mg/L	0.0099	4.029	mg/L	0.0199 0.49%
Be 313.042†	135761.9	0.5189	mg/L	0.00258	1.038	mg/L	0.0052 0.50%
Ca 317.933†	86053.6	10.43	mg/L	0.061	20.87	mg/L	0.122 0.58%
Cd 228.802†	26769.5	0.5096	mg/L	0.00636	1.019	mg/L	0.0127 1.25%
Co 228.616†	24110.6	0.4998	mg/L	0.00571	0.9997	mg/L	0.01141 1.14%
Cr 267.716†	1801.3	0.5123	mg/L	0.00558	1.025	mg/L	0.0112 1.09%
Cu 324.752†	100262.2	0.5161	mg/L	0.00518	1.032	mg/L	0.0104 1.00%
Fe 273.955†	2267.6	2.092	mg/L	0.0172	4.183	mg/L	0.0344 0.82%
K 766.490†	24684.8	10.33	mg/L	0.068	20.66	mg/L	0.135 0.66%
Mg 279.077†	10663.3	10.52	mg/L	0.059	21.03	mg/L	0.118 0.56%
Mn 257.610†	18879.5	0.5112	mg/L	0.00277	1.022	mg/L	0.0055 0.54%
Mo 202.031†	12.4	0.00107	mg/L	0.000239	0.00214	mg/L	0.000479 22.42%
Na 589.592†	62000.8	10.06	mg/L	0.027	20.11	mg/L	0.055 0.27%
Na 330.237†	264.2	11.76	mg/L	0.160	23.51	mg/L	0.320 1.36%
Ni 231.604†	819.9	0.4991	mg/L	0.00570	0.9982	mg/L	0.01139 1.14%
Pb 220.353†	14950.3	2.041	mg/L	0.0294	4.082	mg/L	0.0589 1.44%
Sb 206.836†	-4.1	-0.00433	mg/L	0.002651	-0.00867	mg/L	0.005301 61.15%
Se 196.026†	2125.6	2.084	mg/L	0.0188	4.167	mg/L	0.0375 0.90%
Si 288.158†	-8.5	-0.00519	mg/L	0.001328	-0.01038	mg/L	0.002656 25.58%
Sn 189.927†	1777.0	0.4923	mg/L	0.00477	0.9847	mg/L	0.00953 0.97%
Sr 421.552†	239938.1	0.5189	mg/L	0.00300	1.038	mg/L	0.0060 0.58%
Ti 334.903†	-14.6	-0.00131	mg/L	0.000308	-0.00263	mg/L	0.000617 23.49%
Tl 190.801†	3934.3	2.037	mg/L	0.0227	4.074	mg/L	0.0455 1.12%
V 292.402†	55220.9	0.5222	mg/L	0.00673	1.044	mg/L	0.0135 1.29%
Zn 206.200†	1039.9	0.4916	mg/L	0.00460	0.9832	mg/L	0.00919 0.94%

Sequence No.: 20

Autosampler Location: 7

Sample ID: CV 2

Date Collected: 8/10/2010 1:40:26 PM

Dilution: 1X

Data Type: Original

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	170.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1472772.0	103.1	%	0.43				0.41%
ScR 361.383	171947.2	105.4	%	0.43				0.41%
Ag 328.068†	171576.9	0.9573	mg/L	0.00064	0.9573	mg/L	0.00064	0.07%
Al 308.215†	2630.0	1.980	mg/L	0.0106	1.980	mg/L	0.0106	0.54%
As 188.979†	3054.6	1.980	mg/L	0.0162	1.980	mg/L	0.0162	0.82%
B 249.677†	1876.7	0.9396	mg/L	0.00289	0.9396	mg/L	0.00289	0.31%
Ba 233.527†	7196.3	0.9618	mg/L	0.00483	0.9618	mg/L	0.00483	0.50%
Be 313.042†	252176.2	0.9639	mg/L	0.00092	0.9639	mg/L	0.00092	0.10%
Ca 317.933†	16599.8	2.013	mg/L	0.0080	2.013	mg/L	0.0080	0.40%
Cd 228.802†	52571.6	1.005	mg/L	0.0031	1.005	mg/L	0.0031	0.31%
Co 228.616†	46893.5	0.9715	mg/L	0.00460	0.9715	mg/L	0.00460	0.47%
Cr 267.716†	3424.2	0.9745	mg/L	0.00386	0.9745	mg/L	0.00386	0.40%
Cu 324.752†	203304.4	1.046	mg/L	0.0028	1.046	mg/L	0.0028	0.27%
Fe 273.955†	2090.4	1.928	mg/L	0.0074	1.928	mg/L	0.0074	0.38%
K 766.490†	47332.4	19.81	mg/L	0.035	19.81	mg/L	0.035	0.18%
Mg 279.077†	2005.3	1.981	mg/L	0.0117	1.981	mg/L	0.0117	0.59%
Mn 257.610†	35585.2	0.9630	mg/L	0.00431	0.9630	mg/L	0.00431	0.45%
Mo 202.031†	10496.6	0.9703	mg/L	0.00874	0.9703	mg/L	0.00874	0.90%
Na 589.592†	293458.0	47.59	mg/L	0.137	47.59	mg/L	0.137	0.29%
Na 330.237†	1117.9	50.57	mg/L	0.114	50.57	mg/L	0.114	0.23%
Ni 231.604†	1591.5	0.9713	mg/L	0.00341	0.9713	mg/L	0.00341	0.35%
Pb 220.353†	14431.7	1.971	mg/L	0.0064	1.971	mg/L	0.0064	0.32%
Sb 206.836†	4098.4	2.114	mg/L	0.0199	2.114	mg/L	0.0199	0.94%
Se 196.026†	2025.2	1.984	mg/L	0.0182	1.984	mg/L	0.0182	0.92%
Si 288.158†	2483.5	2.085	mg/L	0.0063	2.085	mg/L	0.0063	0.30%
Sn 189.927†	3341.4	0.9247	mg/L	0.00857	0.9247	mg/L	0.00857	0.93%
Sr 421.552†	459755.4	0.9944	mg/L	0.00131	0.9944	mg/L	0.00131	0.13%
Ti 334.903†	18121.2	0.9720	mg/L	0.00106	0.9720	mg/L	0.00106	0.11%
Tl 190.801†	3794.0	1.958	mg/L	0.0177	1.958	mg/L	0.0177	0.90%
V 292.402†	103661.7	0.9859	mg/L	0.00261	0.9859	mg/L	0.00261	0.26%
Zn 206.200†	2037.6	0.9618	mg/L	0.00399	0.9618	mg/L	0.00399	0.42%

Sequence No.: 21
Sample ID: CB 2
Dilution: 1X

Autosampler Location: 1
Date Collected: 8/10/2010 1:46:27 PM
Data Type: Original

Nebulizer Parameters: CB

Analyte Back Pressure Flow
All 170.0 kPa 0.55 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1487482.0	104.1 %		0.66			0.63%
ScR 361.383	171407.9	105.1 %		0.12			0.11%
Ag 328.068†	38.8	0.00022 mg/L		0.000138	0.00022 mg/L	0.000138	63.90%
Al 308.215†	-2.3	-0.00173 mg/L		0.004163	-0.00173 mg/L	0.004163	240.30%
As 188.979†	1.4	0.00089 mg/L		0.000999	0.00089 mg/L	0.000999	111.81%
B 249.677†	12.8	0.00642 mg/L		0.002298	0.00642 mg/L	0.002298	35.80%
Ba 233.527†	-2.1	-0.00028 mg/L		0.000651	-0.00028 mg/L	0.000651	235.46%
Be 313.042†	-1.5	-0.00001 mg/L		0.000062	-0.00001 mg/L	0.000062	>999.9%
Ca 317.933†	1.7	0.00021 mg/L		0.002283	0.00021 mg/L	0.002283	>999.9%
Cd 228.802†	-5.7	-0.00011 mg/L		0.000110	-0.00011 mg/L	0.000110	98.16%
Co 228.616†	7.6	0.00016 mg/L		0.000034	0.00016 mg/L	0.000034	20.75%
Cr 267.716†	-2.2	-0.00064 mg/L		0.000608	-0.00064 mg/L	0.000608	95.28%
Cu 324.752†	-169.3	-0.00087 mg/L		0.000286	-0.00087 mg/L	0.000286	32.86%
Fe 273.955†	-2.0	-0.00186 mg/L		0.001778	-0.00186 mg/L	0.001778	95.78%
K 766.490†	-114.6	-0.04796 mg/L		0.014695	-0.04796 mg/L	0.014695	30.64%
Mg 279.077†	4.9	0.00487 mg/L		0.004358	0.00487 mg/L	0.004358	89.52%
Mn 257.610†	-3.5	-0.00010 mg/L		0.000088	-0.00010 mg/L	0.000088	91.75%
Mo 202.031†	-5.6	-0.00052 mg/L		0.000535	-0.00052 mg/L	0.000535	103.61%
Na 589.592†	364.2	0.05906 mg/L		0.007245	0.05906 mg/L	0.007245	12.27%
Na 330.237†	18.1	0.8197 mg/L		0.40762	0.8197 mg/L	0.40762	49.73%
Ni 231.604†	0.1	0.00004 mg/L		0.002935	0.00004 mg/L	0.002935	>999.9%
Pb 220.353†	-2.6	-0.00036 mg/L		0.000882	-0.00036 mg/L	0.000882	248.23%
Sb 206.836†	-2.0	-0.00100 mg/L		0.000799	-0.00100 mg/L	0.000799	79.74%
Se 196.026†	5.4	0.00530 mg/L		0.000341	0.00530 mg/L	0.000341	6.42%
Si 288.158†	4.7	0.00392 mg/L		0.005704	0.00392 mg/L	0.005704	145.66%
Sn 189.927†	10.1	0.00280 mg/L		0.000046	0.00280 mg/L	0.000046	1.66%
Sr 421.552†	-61.6	-0.00013 mg/L		0.000032	-0.00013 mg/L	0.000032	23.82%
Ti 334.903†	-45.0	-0.00241 mg/L		0.001101	-0.00241 mg/L	0.001101	45.61%
Tl 190.801†	7.7	0.00401 mg/L		0.001322	0.00401 mg/L	0.001322	32.96%
V 292.402†	6.0	0.00005 mg/L		0.000123	0.00005 mg/L	0.000123	242.27%
Zn 206.200†	-0.1	-0.00003 mg/L		0.001191	-0.00003 mg/L	0.001191	>999.9%

Sequence No.: 22
Sample ID: RG63 MB WMN

Autosampler Location: 36
Date Collected: 8/10/2010 1:52:25 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG63 MB WMN

Analyte Back Pressure Flow
All 169.0 kPa 0.55 L/min

Mean Data: RG63 MB WMN

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1498413.5	104.9	%	1.02				0.98%
ScR 361.383	174037.5	106.7	%	1.15				1.07%
Ag 328.068†	79.2	0.00044	mg/L	0.000104	0.00044	mg/L	0.000104	23.46%
Al 308.215†	7.2	0.00555	mg/L	0.010434	0.00555	mg/L	0.010434	188.07%
As 188.979†	-2.8	-0.00181	mg/L	0.001289	-0.00181	mg/L	0.001289	71.25%
B 249.677†	2.1	0.00105	mg/L	0.003008	0.00105	mg/L	0.003008	286.68%
Ba 233.527†	-2.3	-0.00030	mg/L	0.000194	-0.00030	mg/L	0.000194	64.10%
Be 313.042†	11.4	0.00004	mg/L	0.000012	0.00004	mg/L	0.000012	27.73%
Ca 317.933†	-2.1	-0.00025	mg/L	0.003496	-0.00025	mg/L	0.003496	>999.9%
Cd 228.802†	-9.1	-0.00017	mg/L	0.000049	-0.00017	mg/L	0.000049	28.42%
Co 228.616†	5.0	0.00011	mg/L	0.000020	0.00011	mg/L	0.000020	18.56%
Cr 267.716†	-2.2	-0.00063	mg/L	0.000312	-0.00063	mg/L	0.000312	49.48%
Cu 324.752†	-609.2	-0.00313	mg/L	0.000200	-0.00313	mg/L	0.000200	6.39%
Fe 273.955†	-10.2	-0.00937	mg/L	0.001691	-0.00937	mg/L	0.001691	18.06%
K 766.490†	-182.1	-0.07622	mg/L	0.029240	-0.07622	mg/L	0.029240	38.36%
Mg 279.077†	7.2	0.00713	mg/L	0.005526	0.00713	mg/L	0.005526	77.46%
Mn 257.610†	-17.5	-0.00047	mg/L	0.000112	-0.00047	mg/L	0.000112	23.64%
Mo 202.031†	-4.9	-0.00045	mg/L	0.000344	-0.00045	mg/L	0.000344	75.74%
Na 589.592†	-74.1	-0.01202	mg/L	0.010251	-0.01202	mg/L	0.010251	85.27%
Na 330.237†	10.7	0.4825	mg/L	0.36580	0.4825	mg/L	0.36580	75.81%
Ni 231.604†	1.7	0.00103	mg/L	0.000701	0.00103	mg/L	0.000701	67.88%
Pb 220.353†	-11.1	-0.00151	mg/L	0.000840	-0.00151	mg/L	0.000840	55.71%
Sb 206.836†	-8.6	-0.00442	mg/L	0.001115	-0.00442	mg/L	0.001115	25.21%
Se 196.026†	10.4	0.01023	mg/L	0.003731	0.01023	mg/L	0.003731	36.46%
Si 288.158†	-11.4	-0.00955	mg/L	0.004770	-0.00955	mg/L	0.004770	49.93%
Sn 189.927†	2.1	0.00059	mg/L	0.000993	0.00059	mg/L	0.000993	169.60%
Sr 421.552†	-26.9	-0.00006	mg/L	0.000138	-0.00006	mg/L	0.000138	237.41%
Ti 334.903†	-49.1	-0.00264	mg/L	0.000353	-0.00264	mg/L	0.000353	13.38%
Tl 190.801†	2.1	0.00109	mg/L	0.003541	0.00109	mg/L	0.003541	325.84%
V 292.402†	-10.0	-0.00010	mg/L	0.000188	-0.00010	mg/L	0.000188	192.82%
Zn 206.200†	-1.3	-0.00063	mg/L	0.000885	-0.00063	mg/L	0.000885	141.29%

Sequence No.: 23
Sample ID: RG63 A WMN

Autosampler Location: 37
Date Collected: 8/10/2010 1:58:25 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG63 A WMN

Analyte Back Pressure Flow
All 170.0 kPa 0.55 L/min

Mean Data: RG63 A WMN

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
ScA 357.253	1528801.1	107.0	%	0.79			0.74%
ScR 361.383	178713.7	109.6	%	0.25			0.23%
Ag 328.068†	-58.6	0.00024	mg/L	0.000161	0.00024 mg/L	0.000161	67.41%
Al 308.215†	43.1	0.03254	mg/L	0.010386	0.03254 mg/L	0.010386	31.92%
As 188.979†	191.5	0.1241	mg/L	0.00210	0.1241 mg/L	0.00210	1.69%
B 249.677†	44.9	0.02249	mg/L	0.001450	0.02249 mg/L	0.001450	6.45%
Ba 233.527†	99.0	0.01132	mg/L	0.000703	0.01132 mg/L	0.000703	6.21%
Be 313.042†	-13.0	-0.00010	mg/L	0.000038	-0.00010 mg/L	0.000038	36.85%
Ca 317.933†	312529.4	37.89	mg/L	0.227	37.89 mg/L	0.227	0.60%
Cd 228.802†	-1.0	-0.00024	mg/L	0.000075	-0.00024 mg/L	0.000075	31.26%
Co 228.616†	237.8	0.00493	mg/L	0.000253	0.00493 mg/L	0.000253	5.14%
Cr 267.716†	12.9	0.00344	mg/L	0.000970	0.00344 mg/L	0.000970	28.21%
Cu 324.752†	-1287.8	-0.00303	mg/L	0.000196	-0.00303 mg/L	0.000196	6.45%
Fe 273.955†	43733.6	40.35	mg/L	0.167	40.35 mg/L	0.167	0.41%
K 766.490†	3419.8	1.431	mg/L	0.0112	1.431 mg/L	0.0112	0.78%
Mg 279.077†	12758.4	12.56	mg/L	0.080	12.56 mg/L	0.080	0.64%
Mn 257.610†	148859.9	4.026	mg/L	0.0144	4.026 mg/L	0.0144	0.36%
Mo 202.031†	99.2	0.00917	mg/L	0.000373	0.00917 mg/L	0.000373	4.07%
Na 589.592†	67024.4	10.87	mg/L	0.039	10.87 mg/L	0.039	0.35%
Na 330.237†	295.1	13.13	mg/L	0.635	13.13 mg/L	0.635	4.83%
Ni 231.604†	12.7	0.00774	mg/L	0.000557	0.00774 mg/L	0.000557	7.19%
Pb 220.353†	4.5	-0.00201	mg/L	0.000943	-0.00201 mg/L	0.000943	46.91%
Sb 206.836†	-4.8	-0.00888	mg/L	0.001657	-0.00888 mg/L	0.001657	18.65%
Se 196.026†	-4.6	-0.00156	mg/L	0.003210	-0.00156 mg/L	0.003210	206.35%
Si 288.158†	36707.0	30.78	mg/L	0.073	30.78 mg/L	0.073	0.24%
Sn 189.927†	-16.1	-0.00206	mg/L	0.001056	-0.00206 mg/L	0.001056	51.23%
Sr 421.552†	91102.8	0.1970	mg/L	0.00037	0.1970 mg/L	0.00037	0.19%
Ti 334.903†	39.7	0.00065	mg/L	0.000504	0.00065 mg/L	0.000504	77.87%
Tl 190.801†	-1.5	-0.00620	mg/L	0.002394	-0.00620 mg/L	0.002394	38.59%
V 292.402†	2235.5	0.01694	mg/L	0.000105	0.01694 mg/L	0.000105	0.62%
Zn 206.200†	-10.0	-0.00339	mg/L	0.000923	-0.00339 mg/L	0.000923	27.24%

Sequence No.: 24
Sample ID: RG63 B WMN

Autosampler Location: 38
Date Collected: 8/10/2010 2:04:25 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG63 B WMN

Analyte Back Pressure Flow
All 169.0 kPa 0.55 L/min

Mean Data: RG63 B WMN

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1519092.8	106.3 %	0.55			0.52%
ScR 361.383	181911.7	111.6 %	0.78			0.70%
Ag 328.068†	-394.9	0.00062 mg/L	0.000170	0.00062 mg/L	0.000170	27.41%
Al 308.215†	31.3	0.02343 mg/L	0.003049	0.02343 mg/L	0.003049	13.01%
As 188.979†	0.6	0.00038 mg/L	0.002477	0.00038 mg/L	0.002477	652.30%
B 249.677†	39.6	0.01984 mg/L	0.002404	0.01984 mg/L	0.002404	12.11%
Ba 233.527†	577.5	0.07168 mg/L	0.001327	0.07168 mg/L	0.001327	1.85%
Be 313.042†	-13.2	-0.00012 mg/L	0.000014	-0.00012 mg/L	0.000014	11.85%
Ca 317.933†	862953.1	104.6 mg/L	0.15	104.6 mg/L	0.15	0.15%
Cd 228.802†	-8.8	-0.00017 mg/L	0.000090	-0.00017 mg/L	0.000090	52.93%
Co 228.616†	154.5	0.00317 mg/L	0.000226	0.00317 mg/L	0.000226	7.14%
Cr 267.716†	9.0	0.00176 mg/L	0.000661	0.00176 mg/L	0.000661	37.65%
Cu 324.752†	-2544.6	-0.00262 mg/L	0.000241	-0.00262 mg/L	0.000241	9.20%
Fe 273.955†	127453.6	117.6 mg/L	0.49	117.6 mg/L	0.49	0.42%
K 766.490†	12366.6	5.176 mg/L	0.0557	5.176 mg/L	0.0557	1.08%
Mg 279.077†	48090.2	47.36 mg/L	0.591	47.36 mg/L	0.591	1.25%
Mn 257.610†	194646.7	5.265 mg/L	0.0063	5.265 mg/L	0.0063	0.12%
Mo 202.031†	84.4	0.00780 mg/L	0.000340	0.00780 mg/L	0.000340	4.36%
Na 589.592†	319343.3	51.79 mg/L	0.199	51.79 mg/L	0.199	0.38%
Na 330.237†	1238.0	55.44 mg/L	0.607	55.44 mg/L	0.607	1.09%
Ni 231.604†	1.0	0.00063 mg/L	0.000925	0.00063 mg/L	0.000925	146.21%
Pb 220.353†	44.7	-0.00160 mg/L	0.000808	-0.00160 mg/L	0.000808	50.48%
Sb 206.836†	18.7	-0.00885 mg/L	0.000375	-0.00885 mg/L	0.000375	4.24%
Se 196.026†	-19.1	-0.00388 mg/L	0.004555	-0.00388 mg/L	0.004555	117.35%
Si 288.158†	48060.4	40.30 mg/L	0.489	40.30 mg/L	0.489	1.21%
Sn 189.927†	-19.2	0.00166 mg/L	0.001846	0.00166 mg/L	0.001846	111.27%
Sr 421.552†	256091.1	0.5539 mg/L	0.00201	0.5539 mg/L	0.00201	0.36%
Ti 334.903†	151.9	0.00407 mg/L	0.000152	0.00407 mg/L	0.000152	3.73%
Tl 190.801†	-24.3	-0.01972 mg/L	0.005692	-0.01972 mg/L	0.005692	28.87%
V 292.402†	2944.5	0.01469 mg/L	0.000441	0.01469 mg/L	0.000441	3.01%
Zn 206.200†	-19.1	-0.00511 mg/L	0.001121	-0.00511 mg/L	0.001121	21.92%

Sequence No.: 1
Sample ID: RG49 G WMN

Autosampler Location: 39
Date Collected: 8/10/2010 2:10:44 PM
Data Type: Reprocessed on 8/10/2010 3:21:46 PM

Logged In Analyst (Original) : metals
Dilution: 1X

Nebulizer Parameters: RG49 G WMN

Analyte Back Pressure Flow
All 170.0 kPa 0.55 L/min

Mean Data: RG49 G WMN

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1531859.1	107.2	%	0.54			0.51%
ScR 361.383	178321.9	109.4	%	0.39			0.36%
Ag 328.068†	99.2	0.00039	mg/L	0.000185	0.00039 mg/L	0.000185	47.88%
Al 308.215†	11.0	0.00844	mg/L	0.004569	0.00844 mg/L	0.004569	54.13%
As 188.979†	-3.0	-0.00193	mg/L	0.000750	-0.00193 mg/L	0.000750	38.88%
B 249.677†	28.6	0.01434	mg/L	0.001203	0.01434 mg/L	0.001203	8.39%
Ba 233.527†	93.9	0.01242	mg/L	0.000358	0.01242 mg/L	0.000358	2.88%
Be 313.042†	-13.5	-0.00005	mg/L	0.000023	-0.00005 mg/L	0.000023	44.55%
Ca 317.933†	189925.8	23.03	mg/L	0.159	23.03 mg/L	0.159	0.69%
Cd 228.802†	-12.2	-0.00023	mg/L	0.000129	-0.00023 mg/L	0.000129	56.18%
Co 228.616†	159.9	0.00332	mg/L	0.000080	0.00332 mg/L	0.000080	2.40%
Cr 267.716†	0.6	-0.00049	mg/L	0.000502	-0.00049 mg/L	0.000502	102.33%
Cu 324.752†	-709.4	-0.00339	mg/L	0.000289	-0.00339 mg/L	0.000289	8.51%
Fe 273.955†	3124.8	2.883	mg/L	0.0059	2.883 mg/L	0.0059	0.20%
K 766.490†	1228.7	0.5142	mg/L	0.01155	0.5142 mg/L	0.01155	2.25%
Mg 279.077†	12530.4	12.36	mg/L	0.072	12.36 mg/L	0.072	0.58%
Mn 257.610†	20277.8	0.5484	mg/L	0.00374	0.5484 mg/L	0.00374	0.68%
Mo 202.031†	10.8	0.00100	mg/L	0.000474	0.00100 mg/L	0.000474	47.35%
Na 589.592†	64725.3	10.50	mg/L	0.069	10.50 mg/L	0.069	0.66%
Na 330.237†	271.7	12.17	mg/L	0.696	12.17 mg/L	0.696	5.72%
Ni 231.604†	8.1	0.00492	mg/L	0.002385	0.00492 mg/L	0.002385	48.51%
Pb 220.353†	-18.9	-0.00276	mg/L	0.000858	-0.00276 mg/L	0.000858	31.12%
Sb 206.836†	-15.9	-0.00871	mg/L	0.001860	-0.00871 mg/L	0.001860	21.35%
Se 196.026†	6.9	0.00670	mg/L	0.001692	0.00670 mg/L	0.001692	25.25%
Si 288.158†	16849.3	14.13	mg/L	0.092	14.13 mg/L	0.092	0.65%
Sn 189.927†	-13.0	-0.00201	mg/L	0.000058	-0.00201 mg/L	0.000058	2.89%
Sr 421.552†	42033.3	0.09091	mg/L	0.000593	0.09091 mg/L	0.000593	0.65%
Ti 334.903†	-47.9	-0.00347	mg/L	0.000709	-0.00347 mg/L	0.000709	20.43%
Tl 190.801†	1.3	-0.00007	mg/L	0.000737	-0.00007 mg/L	0.000737	>999.9%
V 292.402†	27.0	0.00000	mg/L	0.000104	0.00000 mg/L	0.000104	>999.9%
Zn 206.200†	-2.4	-0.00024	mg/L	0.001310	-0.00024 mg/L	0.001310	546.86%

Sequence No.: 2
Sample ID: RG60 B SWC

Autosampler Location: 40
Date Collected: 8/10/2010 2:16:44 PM
Data Type: Reprocessed on 8/10/2010 3:21:47 PM

Logged In Analyst (Original) : metals
Dilution: 2X

Nebulizer Parameters: RG60 B SWC

Analyte	Back Pressure	Flow
All	170.0 kPa	0.55 L/min

Mean Data: RG60 B SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	1558712.9	109.1	%	0.36			0.33%
ScR 361.383	183906.2	112.8	%	0.75			0.66%
Ag 328.068†	-966.9	0.00042	mg/L	0.000100	0.00083	mg/L	0.000200 24.09%
Al 308.215†	199953.7	153.4	mg/L	0.93	306.8	mg/L	1.86 0.61%
As 188.979†	47.7	0.04632	mg/L	0.002972	0.09265	mg/L	0.005944 6.42%
B 249.677†	60.6	0.03005	mg/L	0.001024	0.06010	mg/L	0.002048 3.41%
Ba 233.527†	4785.9	0.6318	mg/L	0.00492	1.264	mg/L	0.0098 0.78%
Be 313.042†	770.5	0.00167	mg/L	0.000012	0.00334	mg/L	0.000023 0.70%
Ca 317.933†	404435.4	49.04	mg/L	0.350	98.07	mg/L	0.701 0.71%
Cd 228.802†	103.4	0.00201	mg/L	0.000056	0.00402	mg/L	0.000113 2.80%
Co 228.616†	3932.6	0.06789	mg/L	0.000593	0.1358	mg/L	0.00119 0.87%
Cr 267.716†	1006.3	0.2875	mg/L	0.00338	0.5750	mg/L	0.00675 1.17%
Cu 324.752†	42649.2	0.2325	mg/L	0.00082	0.4649	mg/L	0.00163 0.35%
Fe 273.955†	183097.2	168.9	mg/L	1.06	337.9	mg/L	2.13 0.63%
K 766.490†	13170.4	5.512	mg/L	0.0067	11.02	mg/L	0.013 0.12%
Mg 279.077†	51365.4	50.56	mg/L	0.331	101.1	mg/L	0.66 0.66%
Mn 257.610†	100899.5	2.728	mg/L	0.0183	5.456	mg/L	0.0366 0.67%
Mo 202.031†	42.1	0.00383	mg/L	0.000235	0.00766	mg/L	0.000470 6.13%
Na 589.592†	14537.2	2.358	mg/L	0.0166	4.715	mg/L	0.0333 0.71%
Na 330.237†	61.3	3.945	mg/L	0.2371	7.890	mg/L	0.4741 6.01%
Ni 231.604†	516.3	0.3149	mg/L	0.00594	0.6298	mg/L	0.01189 1.89%
Pb 220.353†	1860.1	0.2863	mg/L	0.00203	0.5726	mg/L	0.00406 0.71%
Sb 206.836†	98.7	-0.00376	mg/L	0.001566	-0.00752	mg/L	0.003132 41.66%
Se 196.026†	-60.1	-0.00256	mg/L	0.002609	-0.00512	mg/L	0.005218 101.98%
Si 288.158†	10063.4	8.445	mg/L	0.0194	16.89	mg/L	0.039 0.23%
Sn 189.927†	-23.3	0.00061	mg/L	0.000106	0.00121	mg/L	0.000212 17.50%
Sr 421.552†	136877.7	0.2960	mg/L	0.00130	0.5921	mg/L	0.00260 0.44%
Ti 334.903†	145203.9	7.796	mg/L	0.0479	15.59	mg/L	0.096 0.61%
Tl 190.801†	2.8	-0.01811	mg/L	0.001546	-0.03622	mg/L	0.003093 8.54%
V 292.402†	48290.6	0.4298	mg/L	0.00174	0.8597	mg/L	0.00348 0.40%
Zn 206.200†	998.4	0.4739	mg/L	0.00470	0.9478	mg/L	0.00940 0.99%

Sequence No.: 3
Sample ID: RG76 Q SWC

Autosampler Location: 41
Date Collected: 8/10/2010 2:22:46 PM
Data Type: Reprocessed on 8/10/2010 3:21:47 PM

Logged In Analyst (Original) : metals
Dilution: 5X

Nebulizer Parameters: RG76 Q SWC

Analyte	Back Pressure	Flow
All	170.0 kPa	0.55 L/min

Mean Data: RG76 Q SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	1516678.4	106.2	%	0.27			0.25%
ScR 361.383	173984.9	106.7	%	3.02			2.83%
Ag 328.068†	17852.2	0.1038	mg/L	0.00110	0.5190	mg/L	0.00548 1.06%
Al 308.215†	34502.8	26.46	mg/L	0.653	132.3	mg/L	3.26 2.47%
As 188.979†	20.2	0.01654	mg/L	0.001332	0.08268	mg/L	0.006660 8.06%
B 249.677†	55.9	0.02783	mg/L	0.002474	0.1391	mg/L	0.01237 8.89%
Ba 233.527†	1902.7	0.2489	mg/L	0.00850	1.245	mg/L	0.0425 3.41%
Be 313.042†	132.7	0.00013	mg/L	0.000062	0.00067	mg/L	0.000309 46.31%
Ca 317.933†	156002.2	18.92	mg/L	0.463	94.58	mg/L	2.314 2.45%
Cd 228.802†	42596.4	0.8167	mg/L	0.00626	4.084	mg/L	0.0313 0.77%
Co 228.616†	1430.8	0.02624	mg/L	0.000124	0.1312	mg/L	0.00062 0.47%
Cr 267.716†	1860.2	0.5310	mg/L	0.01569	2.655	mg/L	0.0785 2.96%
Cu 324.752†	298237.1	1.544	mg/L	0.0021	7.719	mg/L	0.0106 0.14%
Fe 273.955†	125119.9	115.4	mg/L	3.03	577.2	mg/L	15.16 2.63%
K 766.490†	3215.3	1.346	mg/L	0.0610	6.728	mg/L	0.3052 4.54%
Mg 279.077†	11263.0	11.04	mg/L	0.364	55.21	mg/L	1.818 3.29%
Mn 257.610†	34936.8	0.9454	mg/L	0.02391	4.727	mg/L	0.1195 2.53%
Mo 202.031†	321.9	0.02928	mg/L	0.000033	0.1464	mg/L	0.00017 0.11%
Na 589.592†	7677.6	1.245	mg/L	0.0416	6.226	mg/L	0.2080 3.34%
Na 330.237†	81.2	1.837	mg/L	0.4944	9.187	mg/L	2.4722 26.91%
Ni 231.604†	338.5	0.2064	mg/L	0.00594	1.032	mg/L	0.0297 2.88%
Pb 220.353†	19220.4	2.622	mg/L	0.0268	13.11	mg/L	0.134 1.02%
Sb 206.836†	58.0	0.00047	mg/L	0.002191	0.00237	mg/L	0.010957 462.36%
Se 196.026†	-29.9	-0.00559	mg/L	0.002153	-0.02796	mg/L	0.010767 38.51%
Si 288.158†	2420.9	2.032	mg/L	0.0675	10.16	mg/L	0.338 3.32%
Sn 189.927†	210.0	0.06015	mg/L	0.000881	0.3008	mg/L	0.00441 1.46%
Sr 421.552†	40358.7	0.08729	mg/L	0.002189	0.4364	mg/L	0.01094 2.51%
Ti 334.903†	36380.9	1.953	mg/L	0.0500	9.765	mg/L	0.2502 2.56%
Tl 190.801†	-8.5	-0.00992	mg/L	0.002546	-0.04960	mg/L	0.012728 25.66%
V 292.402†	14307.1	0.1230	mg/L	0.00109	0.6149	mg/L	0.00546 0.89%
Zn 206.200†	14226.3	6.721	mg/L	0.1911	33.61	mg/L	0.955 2.84%

Sequence No.: 4
Sample ID: RG76 R SWC

Autosampler Location: 42
Date Collected: 8/10/2010 2:28:47 PM
Data Type: Reprocessed on 8/10/2010 3:21:48 PM

Logged In Analyst (Original) : metals
Dilution: 2X

Nebulizer Parameters: RG76 R SWC

Analyte	Back Pressure	Flow
All	171.0 kPa	0.55 L/min

Mean Data: RG76 R SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1509779.7	105.7	%	0.50				0.48%
ScR 361.383	177872.9	109.1	%	0.38				0.35%
Ag 328.068†	-877.2	0.00273	mg/L	0.000495	0.00546	mg/L	0.000990	18.13%
Al 308.215†	116635.7	89.46	mg/L	0.203	178.9	mg/L	0.41	0.23%
As 188.979†	42.2	0.03995	mg/L	0.001355	0.07991	mg/L	0.002711	3.39%
B 249.677†	174.1	0.08696	mg/L	0.002340	0.1739	mg/L	0.00468	2.69%
Ba 233.527†	9861.2	1.308	mg/L	0.0070	2.616	mg/L	0.0140	0.54%
Be 313.042†	502.4	0.00093	mg/L	0.000020	0.00187	mg/L	0.000040	2.16%
Ca 317.933†	577563.5	70.03	mg/L	0.093	140.1	mg/L	0.19	0.13%
Cd 228.802†	696.8	0.01341	mg/L	0.000169	0.02681	mg/L	0.000339	1.26%
Co 228.616†	3784.8	0.06672	mg/L	0.000475	0.1334	mg/L	0.00095	0.71%
Cr 267.716†	2220.0	0.6340	mg/L	0.00273	1.268	mg/L	0.0055	0.43%
Cu 324.752†	193714.1	1.015	mg/L	0.0105	2.029	mg/L	0.0211	1.04%
Fe 273.955†	242957.7	224.2	mg/L	1.01	448.3	mg/L	2.01	0.45%
K 766.490†	12370.0	5.177	mg/L	0.0078	10.35	mg/L	0.016	0.15%
Mg 279.077†	33392.4	32.80	mg/L	0.214	65.61	mg/L	0.428	0.65%
Mn 257.610†	129053.9	3.490	mg/L	0.0089	6.980	mg/L	0.0177	0.25%
Mo 202.031†	574.4	0.05248	mg/L	0.000225	0.1050	mg/L	0.00045	0.43%
Na 589.592†	25520.1	4.139	mg/L	0.0266	8.278	mg/L	0.0532	0.64%
Na 330.237†	146.7	4.766	mg/L	0.1110	9.532	mg/L	0.2220	2.33%
Ni 231.604†	584.9	0.3567	mg/L	0.00327	0.7135	mg/L	0.00653	0.92%
Pb 220.353†	3591.2	0.5010	mg/L	0.00327	1.002	mg/L	0.0065	0.65%
Sb 206.836†	112.9	0.00234	mg/L	0.002785	0.00468	mg/L	0.005569	118.97%
Se 196.026†	-67.7	-0.01419	mg/L	0.003844	-0.02839	mg/L	0.007687	27.08%
Si 288.158†	6782.8	5.692	mg/L	0.0329	11.38	mg/L	0.066	0.58%
Sn 189.927†	112.3	0.03828	mg/L	0.000647	0.07657	mg/L	0.001295	1.69%
Sr 421.552†	153143.6	0.3312	mg/L	0.00068	0.6624	mg/L	0.00135	0.20%
Ti 334.903†	123001.5	6.603	mg/L	0.0139	13.21	mg/L	0.028	0.21%
Tl 190.801†	-12.0	-0.02429	mg/L	0.005255	-0.04858	mg/L	0.010511	21.64%
V 292.402†	36958.9	0.3204	mg/L	0.00456	0.6409	mg/L	0.00912	1.42%
Zn 206.200†	18760.1	8.864	mg/L	0.0569	17.73	mg/L	0.114	0.64%

Sequence No.: 5
Sample ID: RG76 S SWC

Autosampler Location: 43
Date Collected: 8/10/2010 2:34:50 PM
Data Type: Reprocessed on 8/10/2010 3:21:49 PM

Logged In Analyst (Original) : metals
Dilution: 2X

Nebulizer Parameters: RG76 S SWC

Analyte Back Pressure Flow
All 171.0 kPa 0.55 L/min

Mean Data: RG76 S SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1524887.6	106.7 %	0.37			0.35%
ScR 361.383	178240.2	109.3 %	1.06			0.97%
Ag 328.068†	314.6	0.00810 mg/L	0.000281	0.01621 mg/L	0.000562	3.47%
Al 308.215†	112207.4	86.06 mg/L	0.327	172.1 mg/L	0.65	0.38%
As 188.979†	202.5	0.1425 mg/L	0.00526	0.2850 mg/L	0.01051	3.69%
B 249.677†	116.6	0.05806 mg/L	0.001269	0.1161 mg/L	0.00254	2.19%
Ba 233.527†	5798.6	0.7664 mg/L	0.00825	1.533 mg/L	0.0165	1.08%
Be 313.042†	580.7	0.00082 mg/L	0.000050	0.00163 mg/L	0.000101	6.15%
Ca 317.933†	361220.1	43.80 mg/L	0.046	87.60 mg/L	0.091	0.10%
Cd 228.802†	814.6	0.01552 mg/L	0.000104	0.03103 mg/L	0.000209	0.67%
Co 228.616†	4454.3	0.08178 mg/L	0.000485	0.1636 mg/L	0.00097	0.59%
Cr 267.716†	2844.6	0.8116 mg/L	0.00962	1.623 mg/L	0.0192	1.19%
Cu 324.752†	292843.5	1.521 mg/L	0.0028	3.042 mg/L	0.0056	0.19%
Fe 273.955†	199899.8	184.4 mg/L	0.49	368.9 mg/L	0.98	0.27%
K 766.490†	10503.4	4.396 mg/L	0.0239	8.792 mg/L	0.0479	0.54%
Mg 279.077†	26591.6	26.12 mg/L	0.290	52.24 mg/L	0.580	1.11%
Mn 257.610†	124628.2	3.371 mg/L	0.0114	6.742 mg/L	0.0228	0.34%
Mo 202.031†	749.5	0.06876 mg/L	0.000629	0.1375 mg/L	0.00126	0.92%
Na 589.592†	28010.5	4.543 mg/L	0.0341	9.085 mg/L	0.0681	0.75%
Na 330.237†	148.2	5.363 mg/L	0.3537	10.73 mg/L	0.707	6.59%
Ni 231.604†	806.6	0.4920 mg/L	0.00373	0.9839 mg/L	0.00746	0.76%
Pb 220.353†	18063.7	2.477 mg/L	0.0060	4.955 mg/L	0.0121	0.24%
Sb 206.836†	132.5	0.01652 mg/L	0.000642	0.03304 mg/L	0.001283	3.88%
Se 196.026†	-51.2	-0.00562 mg/L	0.007371	-0.01125 mg/L	0.014741	131.09%
Si 288.158†	6708.2	5.629 mg/L	0.0505	11.26 mg/L	0.101	0.90%
Sn 189.927†	188.3	0.05748 mg/L	0.001261	0.1150 mg/L	0.00252	2.19%
Sr 421.552†	131713.4	0.2849 mg/L	0.00130	0.5697 mg/L	0.00260	0.46%
Ti 334.903†	112049.0	6.016 mg/L	0.0170	12.03 mg/L	0.034	0.28%
Tl 190.801†	-1.2	-0.01846 mg/L	0.002203	-0.03693 mg/L	0.004405	11.93%
V 292.402†	54514.7	0.4918 mg/L	0.00130	0.9837 mg/L	0.00259	0.26%
Zn 206.200†	15568.6	7.356 mg/L	0.0811	14.71 mg/L	0.162	1.10%

Sequence No.: 6

Sample ID: ~~RG76 T SWC~~RG62 BSPK SWC
8.10

Autosampler Location: 44

Date Collected: 8/10/2010 2:40:52 PM

Data Type: Reprocessed on 8/10/2010 3:21:49 PM

Logged In Analyst (Original) : metals

Dilution: 2X

Nebulizer Parameters: RG76 T SWC

Analyte	Back Pressure	Flow
All	171.0 kPa	0.55 L/min

Mean Data: RG76 T SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	1522483.5	106.6	%	0.64			0.60%
ScR 361.383	178489.6	109.5	%	0.11			0.10%
Ag 328.068†	85883.1	0.4813	mg/L	0.00097	0.9626	mg/L	0.20%
Al 308.215†	118273.6	90.71	mg/L	0.142	181.4	mg/L	0.16%
As 188.979†	3001.2	1.959	mg/L	0.0240	3.918	mg/L	1.23%
B 249.677†	34.3	0.01556	mg/L	0.002734	0.03112	mg/L	17.57%
Ba 233.527†	15767.0	2.105	mg/L	0.0111	4.210	mg/L	0.53%
Be 313.042†	130892.9	0.4993	mg/L	0.00132	0.9986	mg/L	0.26%
Ca 317.933†	449506.9	54.50	mg/L	0.119	109.0	mg/L	0.22%
Cd 228.802†	25446.0	0.4845	mg/L	0.00065	0.9690	mg/L	0.14%
Co 228.616†	23956.8	0.4851	mg/L	0.00667	0.9701	mg/L	1.37%
Cr 267.716†	2111.4	0.6006	mg/L	0.00185	1.201	mg/L	0.31%
Cu 324.752†	130362.4	0.6748	mg/L	0.00050	1.350	mg/L	0.07%
Fe 273.955†	70393.9	64.95	mg/L	0.186	129.9	mg/L	0.29%
K 766.490†	33693.8	14.10	mg/L	0.008	28.20	mg/L	0.05%
Mg 279.077†	26614.9	26.21	mg/L	0.139	52.43	mg/L	0.53%
Mn 257.610†	38262.7	1.035	mg/L	0.0027	2.070	mg/L	0.26%
Mo 202.031†	54.4	0.00493	mg/L	0.000792	0.00987	mg/L	16.04%
Na 589.592†	105999.0	17.19	mg/L	0.065	34.38	mg/L	0.38%
Na 330.237†	407.5	19.29	mg/L	0.248	38.58	mg/L	1.29%
Ni 231.604†	883.4	0.5379	mg/L	0.00135	1.076	mg/L	0.25%
Pb 220.353†	13759.0	1.899	mg/L	0.0240	3.798	mg/L	1.26%
Sb 206.836†	42.3	-0.00263	mg/L	0.002270	-0.00526	mg/L	86.30%
Se 196.026†	1983.8	1.972	mg/L	0.0298	3.945	mg/L	1.51%
Si 288.158†	3937.8	3.306	mg/L	0.0143	6.612	mg/L	0.43%
Sn 189.927†	1513.2	0.4247	mg/L	0.00481	0.8495	mg/L	1.13%
Sr 421.552†	483620.6	1.046	mg/L	0.0006	2.092	mg/L	0.06%
Ti 334.903†	124077.7	6.661	mg/L	0.0112	13.32	mg/L	0.17%
Tl 190.801†	3666.5	1.884	mg/L	0.0244	3.768	mg/L	1.30%
V 292.402†	91706.4	0.8529	mg/L	0.00365	1.706	mg/L	0.43%
Zn 206.200†	1493.5	0.7073	mg/L	0.00645	1.415	mg/L	0.91%

Sequence No.: 7

Autosampler Location: 45

Sample ID: RG76 MBSPK SWC

Date Collected: 8/10/2010 2:46:42 PM

Logged In Analyst (Original) : metals

Data Type: Reprocessed on 8/10/2010 3:21:50 PM

Dilution: 2X

Nebulizer Parameters: RG76 MBSPK SWC

Analyte	Back Pressure	Flow
All	171.0 kPa	0.55 L/min

Mean Data: RG76 MBSPK SWC

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.	Units		Conc.	Units		
ScA 357.253	1545281.9	108.2	%	0.37				0.35%
ScR 361.383	179489.6	110.1	%	0.14				0.13%
Ag 328.068†	83471.7	0.4658	mg/L	0.00143	0.9315	mg/L	0.00286	0.31%
Al 308.215†	2578.9	1.971	mg/L	0.0058	3.943	mg/L	0.0117	0.30%
As 188.979†	2976.4	1.930	mg/L	0.0023	3.859	mg/L	0.0046	0.12%
B 249.677†	2.5	-0.00029	mg/L	0.000426	-0.00059	mg/L	0.000852	144.59%
Ba 233.527†	14349.8	1.918	mg/L	0.0062	3.837	mg/L	0.0123	0.32%
Be 313.042†	130053.6	0.4971	mg/L	0.00041	0.9943	mg/L	0.00083	0.08%
Ca 317.933†	82518.2	10.01	mg/L	0.008	20.01	mg/L	0.015	0.08%
Cd 228.802†	24874.1	0.4735	mg/L	0.00108	0.9471	mg/L	0.00216	0.23%
Co 228.616†	22613.1	0.4688	mg/L	0.00169	0.9376	mg/L	0.00337	0.36%
Cr 267.716†	1737.3	0.4941	mg/L	0.00143	0.9883	mg/L	0.00286	0.29%
Cu 324.752†	93309.3	0.4803	mg/L	0.00071	0.9606	mg/L	0.00141	0.15%
Fe 273.955†	2251.5	2.077	mg/L	0.0041	4.154	mg/L	0.0082	0.20%
K 766.490†	22907.9	9.587	mg/L	0.0217	19.17	mg/L	0.043	0.23%
Mg 279.077†	10240.1	10.10	mg/L	0.012	20.20	mg/L	0.024	0.12%
Mn 257.610†	17949.9	0.4860	mg/L	0.00162	0.9720	mg/L	0.00323	0.33%
Mo 202.031†	8.5	0.00071	mg/L	0.000047	0.00142	mg/L	0.000094	6.57%
Na 589.592†	57092.3	9.259	mg/L	0.0198	18.52	mg/L	0.040	0.21%
Na 330.237†	249.2	11.08	mg/L	0.117	22.15	mg/L	0.234	1.06%
Ni 231.604†	793.7	0.4832	mg/L	0.00109	0.9664	mg/L	0.00218	0.23%
Pb 220.353†	14011.4	1.913	mg/L	0.0104	3.825	mg/L	0.0208	0.54%
Sb 206.836†	4.7	-0.00480	mg/L	0.001138	-0.00960	mg/L	0.002276	23.71%
Se 196.026†	1976.8	1.938	mg/L	0.0065	3.876	mg/L	0.0129	0.33%
Si 288.158†	-5.1	-0.00246	mg/L	0.006833	-0.00491	mg/L	0.013667	278.34%
Sn 189.927†	-8.6	-0.00155	mg/L	0.000963	-0.00310	mg/L	0.001926	62.19%
Sr 421.552†	226626.5	0.4901	mg/L	0.00060	0.9803	mg/L	0.00121	0.12%
Ti 334.903†	-3.0	-0.00067	mg/L	0.000391	-0.00134	mg/L	0.000782	58.33%
Tl 190.801†	3702.1	1.917	mg/L	0.0044	3.833	mg/L	0.0088	0.23%
V 292.402†	51805.5	0.4900	mg/L	0.00140	0.9800	mg/L	0.00280	0.29%
Zn 206.200†	1035.6	0.4895	mg/L	0.00133	0.9790	mg/L	0.00266	0.27%

Sequence No.: 8

Sample ID: CV 3

Autosampler Location: 7

Date Collected: 8/10/2010 2:52:44 PM

Data Type: Reprocessed on 8/10/2010 3:21:50 PM

Logged In Analyst (Original) : metals

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	171.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1523043.3	106.6 %	0.46			0.43%
ScR 361.383	180341.9	110.6 %	0.25			0.22%
Ag 328.068†	167865.3	0.9366 mg/L	0.00404	0.9366 mg/L	0.00404	0.43%
Al 308.215†	2607.1	1.963 mg/L	0.0030	1.963 mg/L	0.0030	0.15%
As 188.979†	3025.9	1.961 mg/L	0.0031	1.961 mg/L	0.0031	0.16%
B 249.677†	1884.4	0.9434 mg/L	0.00828	0.9434 mg/L	0.00828	0.88%
Ba 233.527†	7226.1	0.9657 mg/L	0.00284	0.9657 mg/L	0.00284	0.29%
Be 313.042†	255554.7	0.9768 mg/L	0.00051	0.9768 mg/L	0.00051	0.05%
Ca 317.933†	16871.0	2.046 mg/L	0.0066	2.046 mg/L	0.0066	0.32%
Cd 228.802†	51667.4	0.9873 mg/L	0.00331	0.9873 mg/L	0.00331	0.34%
Co 228.616†	46483.8	0.9630 mg/L	0.00234	0.9630 mg/L	0.00234	0.24%
Cr 267.716†	3459.2	0.9845 mg/L	0.00108	0.9845 mg/L	0.00108	0.11%
Cu 324.752†	200665.2	1.032 mg/L	0.0043	1.032 mg/L	0.0043	0.42%
Fe 273.955†	2127.8	1.962 mg/L	0.0091	1.962 mg/L	0.0091	0.46%
K 766.490†	45981.9	19.24 mg/L	0.073	19.24 mg/L	0.073	0.38%
Mg 279.077†	2022.3	1.998 mg/L	0.0118	1.998 mg/L	0.0118	0.59%
Mn 257.610†	35809.3	0.9690 mg/L	0.00236	0.9690 mg/L	0.00236	0.24%
Mo 202.031†	10377.0	0.9593 mg/L	0.00176	0.9593 mg/L	0.00176	0.18%
Na 589.592†	283148.4	45.92 mg/L	0.017	45.92 mg/L	0.017	0.04%
Na 330.237†	1104.1	49.93 mg/L	0.459	49.93 mg/L	0.459	0.92%
Ni 231.604†	1610.9	0.9831 mg/L	0.00419	0.9831 mg/L	0.00419	0.43%
Pb 220.353†	14302.4	1.953 mg/L	0.0132	1.953 mg/L	0.0132	0.67%
Sb 206.836†	4043.4	2.085 mg/L	0.0020	2.085 mg/L	0.0020	0.10%
Se 196.026†	2007.9	1.967 mg/L	0.0013	1.967 mg/L	0.0013	0.06%
Si 288.158†	2486.9	2.088 mg/L	0.0076	2.088 mg/L	0.0076	0.37%
Sn 189.927†	3299.0	0.9129 mg/L	0.00117	0.9129 mg/L	0.00117	0.13%
Sr 421.552†	457673.1	0.9898 mg/L	0.00079	0.9898 mg/L	0.00079	0.08%
Ti 334.903†	18041.7	0.9677 mg/L	0.00212	0.9677 mg/L	0.00212	0.22%
Tl 190.801†	3763.3	1.942 mg/L	0.0016	1.942 mg/L	0.0016	0.08%
V 292.402†	102756.4	0.9774 mg/L	0.00593	0.9774 mg/L	0.00593	0.61%
Zn 206.200†	2103.6	0.9930 mg/L	0.00199	0.9930 mg/L	0.00199	0.20%

Sequence No.: 33

Sample ID: CB 3

Autosampler Location: 1

Date Collected: 8/10/2010 2:58:45 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	172.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1553028.9	108.7	%	0.09				0.09%
ScR 361.383	179663.3	110.2	%	0.43				0.39%
Ag 328.068†	69.7	0.00039	mg/L	0.000127	0.00039	mg/L	0.000127	32.55%
Al 308.215†	18.2	0.01395	mg/L	0.020845	0.01395	mg/L	0.020845	149.42%
As 188.979†	-3.2	-0.00208	mg/L	0.001020	-0.00208	mg/L	0.001020	48.93%
B 249.677†	15.1	0.00759	mg/L	0.001017	0.00759	mg/L	0.001017	13.40%
Ba 233.527†	-4.3	-0.00058	mg/L	0.000313	-0.00058	mg/L	0.000313	53.96%
Be 313.042†	-20.2	-0.00008	mg/L	0.000038	-0.00008	mg/L	0.000038	49.60%
Ca 317.933†	20.4	0.00247	mg/L	0.000116	0.00247	mg/L	0.000116	4.69%
Cd 228.802†	0.7	0.00002	mg/L	0.000095	0.00002	mg/L	0.000095	560.88%
Co 228.616†	7.9	0.00017	mg/L	0.000112	0.00017	mg/L	0.000112	66.04%
Cr 267.716†	0.8	0.00023	mg/L	0.001037	0.00023	mg/L	0.001037	457.74%
Cu 324.752†	-39.7	-0.00020	mg/L	0.000067	-0.00020	mg/L	0.000067	33.15%
Fe 273.955†	-0.1	-0.00012	mg/L	0.003076	-0.00012	mg/L	0.003076	>999.9%
K 766.490†	-172.9	-0.07237	mg/L	0.001947	-0.07237	mg/L	0.001947	2.69%
Mg 279.077†	10.3	0.01013	mg/L	0.003071	0.01013	mg/L	0.003071	30.32%
Mn 257.610†	-6.0	-0.00016	mg/L	0.000166	-0.00016	mg/L	0.000166	101.62%
Mo 202.031†	-1.1	-0.00011	mg/L	0.000400	-0.00011	mg/L	0.000400	376.45%
Na 589.592†	141.4	0.02293	mg/L	0.007932	0.02293	mg/L	0.007932	34.59%
Na 330.237†	21.2	0.9615	mg/L	0.15816	0.9615	mg/L	0.15816	16.45%
Ni 231.604†	-0.1	-0.00006	mg/L	0.002726	-0.00006	mg/L	0.002726	>999.9%
Pb 220.353†	-11.5	-0.00157	mg/L	0.001092	-0.00157	mg/L	0.001092	69.55%
Sb 206.836†	-6.2	-0.00320	mg/L	0.003408	-0.00320	mg/L	0.003408	106.66%
Se 196.026†	6.7	0.00653	mg/L	0.004670	0.00653	mg/L	0.004670	71.50%
Si 288.158†	-0.7	-0.00061	mg/L	0.004370	-0.00061	mg/L	0.004370	714.53%
Sn 189.927†	5.2	0.00144	mg/L	0.000866	0.00144	mg/L	0.000866	60.32%
Sr 421.552†	-30.3	-0.00007	mg/L	0.000041	-0.00007	mg/L	0.000041	61.78%
Ti 334.903†	-63.1	-0.00339	mg/L	0.001284	-0.00339	mg/L	0.001284	37.87%
Tl 190.801†	7.2	0.00374	mg/L	0.001019	0.00374	mg/L	0.001019	27.28%
V 292.402†	-5.2	-0.00004	mg/L	0.000247	-0.00004	mg/L	0.000247	549.58%
Zn 206.200†	5.0	0.00237	mg/L	0.000663	0.00237	mg/L	0.000663	27.99%

**General Chemistry Raw Data
Analyst Notes and Raw Data**

ARI Job ID: RG60

8-2-10

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

SOLIDS (dry at 104 (12-24 hr) then combust at 550 (30 min)) DATE: 7/30/2010 ANALYST: KE / CDE / RR 19:10
Instrumentation Drying Ovens: 12 Muffle Furnace: N/A Analytical Balance: 1123230597

Batch drying time
 record times as mm/dd/yyyy hh:mm
 7/30/2010 19:10 date/time in oven KE
 7/31/2010 14:30 date/time out RR
 elapsed hrs = 19.3

TS (%) calculated as:
 Final dry wt (g) = (Dry Wt - Tare Wt)
 TS = (Final Dry Wt) / (grams Sample-Tare) (A)

TVS (mg/kg dry wt) calculated as:
 Final ash wt (g) = (min ash wt - tare wt)
 TVS (mg/kg) = [(Dry wt-Ash wt) / (dry weight)] * 1,000,000
 if ash wt > dry wt, "Chk for Err"
 if dry wt-ash wt < 0.001 g, "< (1/dry wt) * 1,000,000"

SAMPLE ID	DISH #	Cal Weight ID	SAMPLE (grams)	TARE WT (grams)	CV-02	CV-02	CV-02	DRY WT 104C (grams)	dry Wt (g)	TS (%)	ASH WT 550C (grams)		TVS (mg/kg) (%)
											1	2	
Blank				1.1129				1.1129	0.00				
RG51 D3			6.1385	1.1033		7/31/10 14:30 RR	CV-02	5.8990	4.80	95.2%			
RG51 E1			6.2249	1.1038		10.0000	Cal:OK!	5.9965	4.89	95.5%			
RG51 F6			6.2874	1.1480		10.0000	Cal:OK!	5.9022	4.75	92.5%			
RG51 F6 dup			6.2747	1.0995				5.8516	4.75	91.8%			
RPD = 0.74%											RPD = NA		
RG51 F6 trp			6.1652	1.1451				5.7450	4.60	91.6%			
RSD = 0.50%											RSD = NA		

RG54 E6			6.3388	1.1551				5.7556	4.60	88.7%			
RG54 F6			6.9543	1.0916				6.3131	5.22	89.1%			
RG54 K6			6.4966	1.1538				5.3935	4.24	79.4%			
RG58 E8			6.1694	1.1331				5.4653	4.33	86.0%			
RG58 F8			6.2314	1.0902				5.3668	4.28	83.2%			
RG58 K8			6.7517	1.1191				6.1708	5.05	89.7%			
RG58 L8			6.2854	1.1000				5.6066	4.51	86.9%			
RG58 R8			6.4034	1.1513				5.9219	4.77	90.8%			
RG58 S8			6.8870	1.1213				6.3245	5.20	90.2%			
RG60 E8			6.4681	1.1254				6.0312	4.91	91.8%			
RG60 F8			6.7541	1.1268				6.2698	5.14	91.4%			
RG43 A1			5.5283	1.1292				4.8556	3.73	84.7%			
RG43 A1 dup			5.1486	1.1108				4.2117	3.10	76.8%			
RPD = 9.80%											RPD = NA		

RG50 01417



Analytical Resources, Incorporated
Analytical Chemists and Consultants

TOTAL / VOLATILE SOLIDS (TS/TVS) BENCHSHEET

Analyst: <u>CD</u> / <u>CD</u> Date: <u>7-30-70</u> Oven ID: <u>012</u> Balance ID: <u>1123230597</u>		Time in Oven: <u>17:10</u> Time Out of Oven: <u>14:15</u> Elapsed Time (> 12 Hrs): <u>(A)</u>	
Sample ID	Dish #	Cal Weight ID	CV-02
BLANK	1	1.1129	1.1129
RS57	2	6.1385	5.8970
ES	3	6.2249	5.9965
FL	4	6.2874	5.9022
MPF6	5	6.2747	5.8516
QPF6	6	6.2652	5.7450
RS54	7 (2)	6.4485	5.7556
FL	8 (3)	6.2895	6.3131
K6	9 (4)	6.2488	5.8935
RS8	10 (5)	6.4966	5.4653
FL	11	6.2314	5.9668
K8	12	6.2517	6.1708
L8	13	6.2854	5.6006
RS	14	6.4034	5.9249
S6	15	6.8870	6.5245
ES	16	6.4681	6.0512
FS	17	6.7541	6.2698
RS43	18	5.5283	4.8556
PA1	19	5.1486	4.2117
PA1	20	5.5697	4.7123
B1	21	6.5779	5.4363

TS (mg/kg dry weight) calculated as:
Final Ash Weight (g) = (Dry Weight - Tare Weight)
TVS (mg/kg) = [(Dry Weight - Ash Weight) / (Dry Weight) * 1,000,000
If Ash Weight > Dry Weight then "Check for Error"
If Dry Weight - Ash Weight < 0.001 < (1/Dry Weight) * 1,000,000

Revision 002
12/28/09

Page 00449

6053F

③ 6.3388
③ ~~6.3388~~ 6.9543
④ 6.4966
⑤ 6.1129

7-30-70 (A)

RG00 : 01410

W
8-4-10

TOC Solids Prep Log						DATE:	7/30/2010
acid purging to remove IC and drying at 70°C for TOC analysis General notes regarding prep method and samples (identify the acid used)						ANALYST:	KE 19:30 (A)
						<i>make no entry to shaded cells, they are calculated</i>	
Sample ID		IC Test + / -	Gravimetric Data (grams)			% Solids	Sample description & notes (homogeneity and exclusions)
ARI #	Client		Tare Wt.	Wet wt.	70°C dry wt		
Blank			13.1088		13.1088	0 mg	
RG51 D3		-	13.2258	18.0648	17.9648	97.93%	
RG51 E3		-	13.1478	18.5727	18.4813	98.32%	
RG51 F3		-	13.2387	18.4485	18.1578	94.42%	
RG51 F3 DUP		-	13.2621	18.6455	18.3746	94.97%	
RG51 F3 TRIP		-	13.1517	18.8582	18.5545	94.68%	
RG54 E6		-	12.8131	18.0133	17.7049	94.07%	
RG54 F6		-	13.0790	18.3047	17.8947	92.15%	
RG54 K6		-	13.2288	18.2421	17.2378	79.97%	
RG58 E8		-	13.1709	18.5807	17.9854	89.00%	
RG58 F8		-	13.1603	18.9466	18.0800	85.02%	
RG58 K8		-	13.2105	18.4043	17.9875	91.98%	
RG58 L8		-	13.0982	18.7507	18.1468	89.32%	
RG58 R8		-	12.9965	18.9213	18.4918	92.75%	
RG58 S8		-	13.0830	18.3251	17.7781	89.57%	
RG60 E8		-	13.1423	18.5458	18.2656	94.81%	
RG60 F8		-	13.1331	18.1632	17.8433	93.64%	
RG43 B1		+++	13.1604	18.7234	17.8416	84.15%	



TOC Solids Preparation Log

Acid purge to remove IC and drying 70 °C for TOC an alysis
Add general notes regarding samples and preparation and identify the acid used

Analyst 7-30-10 (W) / CAG Date 7-30-10 19:32(A)

Sample Identification		IC Test	Gravimetric Data			% Solids	Sample description & notes
ARI #	Client ID		Tare	Wet	70 °C		
Blank			13.1088	Ø	13.1088		
RG51 D3		-	13.2228	18.0648	17.9648		Sand & Rocks
E1		-	13.1478	18.5727	18.4813		
F6		-	13.2387	18.4485	18.1578		
OP F6		-	13.2621	18.6455	18.3746		
PP F6		-	13.1517	18.8582	18.5545		
RG54 E6		-	12.8131	18.0133	17.9854	17.7049	
F6		-	13.0790	18.3047	17.8947		
K6		-	13.2288	18.2421	17.2378		
RG58 E8		-	13.1709	18.5807	17.9854		
F8		-	13.1603	18.9406	18.0900		
K8		-	13.2105	18.4043	17.9875		very wet
L8		-	13.0982	18.7507	18.1468		Dry Sand
R8		-	12.9965	18.9213	18.4918		
S8		-	13.0830	18.3251	17.7781		
RG60 E8		-	13.1423	18.5458	18.2650		
F8		-	13.1331	18.1632	17.8432		
RG43 A		+++	13.2487	18.3062			Rerun un Aged (NO Acid)
OP A1		+++	13.1282	18.8937			
PP A1		+++	13.1972	18.678			
Ø B1		+++	13.1604	18.7234			

7-30-10
(W)

RG43
Ø B1 +++ - 131604-187234 - 17.8416

8-3-10 (W)

8-9-10

TOC, Solids Data Analysis									
Instrument: Apollo 2					DATE: 8/6/2010				
Mode: NPOC Inlet: Boat					ANALYST: KE/CR 9:05				
Spike Std = 2,500 ppm C									
Calibration Data									
Cal Curve ID: CAL 072210					Conc: 5,000 ppm				
Calibration Curve Standard: ARI # 00103 - 1					Curve Date: 07/22/10				
CalFact: 2.599E+05 intercept: -120606					r2: 0.99983				
Curve Range (µgC): 8 to 100									
Verification Standard									
Source: ERA# 0513 - 10 - 06					Conc: 5,000 ppm				
dilution: 10 mL to 50					1,000 ppm				
Standard Reference Material									
Source: NIST 8704					Conc: 33,510 ppm				
Silica Blanks									
Replicate determinations						Mean	RSD	condition	
77.17	51.9	71.6				66.9	19.8%	OK	
Sample Data									
"C corr" (with dilution) = ("C obs" - (Mean silica Blank * %Silica)) * Dilution Factor									
Sample ID	Dilution Data				Spike (µL Std)	Combustion Data			comments
	Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor		Burn wt. (mg)	C obs (ppm C)	C corr (ppm C)	
ICV				1.00		40.0	960	960	96.00%
Blank				1.00		40.0	49.99	50	Blank OK
NIST 8704				1.00		2.3	32215	32,215	96.14%
SB 1				1.00		34.3	77.17	77	Range OK!
SB 2				1.00		33.6	51.90	52	Range OK!
SB 3				1.00		31.5	71.55	72	Range OK!
RG11 A1				1.00		2.2	30742	30,742	Range OK!
RG11 A1 dup				1.00		2.1	36857	36,857	RPD=18.1%
RG11 A1 trp				1.00		2.1	32757	32,757	RSD=9.3%
RG11 A1 ms				1.00	10	1.0	54802	54,802	Range OK!
Spike = 0.025 mg C to 1.0 mg samp = 25,000 ppm 96%									
RG43 B1				1.00		2.2	3760	3,760	Range OK!
RG79 G9				1.00		2.5	16592	16,592	Range OK!
CCV				1.00		40.0	924	924	92.40%
Blank				1.00		40.0	29.96	30	Blank OK
RG79 H9				1.00		2.9	16884	16,884	Range OK!
RG79 O9				1.00		3.3	18223	18,223	Range OK!
RG79 P9				1.00		3.6	5580	5,580	Range OK!
RG79 Q9				1.00		3.5	4300	4,300	Range OK!
RG60 E8				1.00		4.0	3952	3,952	Range OK!
RG60 F8				1.00		2.1	5644	5,644	Range OK!
RG58 E3				1.00		3.1	775	775	Range OK!
RG58 F8				1.00		2.8	765	765	Range OK!
RG58 K8				1.00		2.6	2829	2,829	Range OK!
RG58 L8				1.00		4.0	62.07	62	Low Scale
CCV				1.00		40.0	955	955	95.50%
Blank				1.00		40.0	28.24	28	Blank OK

Sample Data									
<i>"C corr" (with dilution) = ("C obs" - (Mean silica Blank * %Silica)) * Dilution Factor</i>									
Sample ID	Dilution Data				Spike (μ L Std)	Combustion Data			comments
	Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor		Burn wt. (mg)	C obs (ppm C)	C corr (ppm C)	
RG58 L8				1.00		11.2	580	580	Range OK!
RG58 R8				1.00		5.5	1809	1,809	Range OK!
RG58 S8				1.00		6.4	655	655	Range OK!
NIST 8704				1.00		2.4	33931	33,931	101.26%
CCV				1.00		40.0	928	928	92.80%
Blank				1.00		40.0	38.55	39	Blank OK



on
8-6-10
10F1

TOC Solids Sample Run Log
Apollo 9000

Set-Up Parameters		MODE: NPOC BOAT	INLET: BOAT SAMPLIN			
Standards:	Source	Conc (ppm)				
Calibration:	APR 00103-01	8600				
Verification:	EWA 1513-10-06	SDW TO 1000 FOR CVS				
SRM:	NBS 8704	33 570				
Sample Sequence:						
Sample ID	Dilution Data (mg)		Burn Wt	Matrix Spike Data		Comments
	Sample	+ Silica Gel	mg	mg/L	µL added	
ICV			40			
ICB			40			
NBS 8704			2-3			
SB 1			34.3			
SB 2			33.6			
SB 3			31.5			
RG11 M			2-2			
↓ M DNF			2-1			
↓ M TRP			2-1			
↓ M MS			1-0	2500	10	
RG13 DI			2-2			
RG74 G9			2.5			
CCV HT			402.4			
CCB			40			
RG79 H9			2-9			
↓ O9			3-3			
↓ P9			3-6			
↓ Q9			3-5			
RG60 E8			4-0			
↓ F8			2-1			
RG58 G3			3-1			
↓ F8			2-8			
↓ K8			2-0			
↓ L8			4-0			
CCV			40			
CCD			40			
RG58 L8			11-2			
R8			8-5			
S8			6-4			
NBS 8704			2-4			
CCV			40			
CCB			40			

```

=====
Sample ID:  CVS BOAT 1000          Mode:      TOC
Method:     Boat Sampler          Filename:  08060906
Cal. Curve: BOAT CAL 07232010    Timestamp: 2010/08/06 09:09
Operator ID: CARLOS              Sample Type: Cal. Verification
    
```

```

=====
Rep #      ppm C      ug C      Raw Data      Beginning      Ending      Integration
           Baseline    Baseline    Time
  1      959.6354    38.3854    9841737      16.833        17.832        130
=====
    
```

```

Sample ID:  ICB BOAT             Mode:      TOC
Method:     Boat Sampler          Filename:  08060913
Cal. Curve: BOAT CAL 07232010    Timestamp: 2010/08/06 09:16
Operator ID: CARLOS              Sample Type: Cal. Verification
    
```

```

=====
Rep #      ppm C      ug C      Raw Data      Beginning      Ending      Integration
           Baseline    Baseline    Time
  1      49.9912     1.9996    278635      16.420        17.417         82
=====
    
```

```

Sample ID:  NBS 8704            Mode:      TOC
Method:     Boat Sampler          Filename:  08060921
Cal. Curve: BOAT CAL 07232010    Timestamp: 2010/08/06 09:25
Operator ID: CARLOS              Sample Type: Cal. Verification
    
```

```

=====
Rep #      ppm C      ug C      Raw Data      Beginning      Ending      Integration
           Baseline    Baseline    Time
  1     32214.5332    74.0934   19226708    16.470        17.465        214
=====
    
```

```

Sample ID:  SB 1                Mode:      TOC
Method:     Boat Sampler          Filename:  08060935
Cal. Curve: BOAT CAL 07232010    Timestamp: 2010/08/06 09:38
Operator ID: CARLOS              Sample Type: Sample
    
```

```

=====
Rep #      ppm C      ug C      Raw Data      Beginning      Ending      Integration
           Baseline    Baseline    Time
  1      77.1690     2.6469    695672      16.468        17.460         75
=====
    
```

```

Sample ID:  SB 2                Mode:      TOC
Method:     Boat Sampler          Filename:  08060943
Cal. Curve: BOAT CAL 07232010    Timestamp: 2010/08/06 09:45
Operator ID: CARLOS              Sample Type: Sample
    
```

```

=====
Rep #      ppm C      ug C      Raw Data      Beginning      Ending      Integration
           Baseline    Baseline    Time
  1      51.8982     1.7438    458309      16.622        17.616         73
=====
    
```

```

Sample ID:  SB 3                Mode:      TOC
Method:     Boat Sampler          Filename:  08060957
Cal. Curve: BOAT CAL 07232010    Timestamp: 2010/08/06 10:01
Operator ID: CARLOS              Sample Type: Sample
    
```

```

=====
Rep #      ppm C      ug C      Raw Data      Beginning      Ending      Integration
           Baseline    Baseline    Time
  1      71.5530     2.2539    592387      16.894        17.888         68
=====
    
```

```

Sample ID:  RG11 A1             Mode:      TOC
Method:     Boat Sampler          Filename:  08061013
Cal. Curve: BOAT CAL 07232010    Timestamp: 2010/08/06 10:17
Operator ID: CARLOS              Sample Type: Sample
    
```

```

=====
Rep #      ppm C      ug C      Raw Data      Beginning      Ending      Integration
           Baseline    Baseline    Time
  1     30741.6855    67.6317   17775328    17.045        18.044        189
=====
    
```

Sample ID: RG11 A1 DUP Mode: TOC
 Method: Boat Sampler Filename: 08061027
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 10:33
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	36856.5938	77.3988	20342378	16.839	17.838	213

Sample ID: RG11 A1 TRP Mode: TOC
 Method: Boat Sampler Filename: 08061037
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 10:41
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	32756.6602	68.7890	18079488	16.838	17.838	191

Sample ID: RG11 A1 MS Mode: TOC
 Method: Boat Sampler Filename: 08061047
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 10:50
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	54801.9219	54.8019	14403334	17.185	18.178	136

Sample ID: RG43 B1 Mode: TOC
 Method: Boat Sampler Filename: 08061104
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 11:08
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3759.7234	8.2714	2173931	16.580	17.571	179

Sample ID: RG79 G9 Mode: TOC
 Method: Boat Sampler Filename: 08061155
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 11:59
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	16592.3281	41.4808	10902210	16.535	17.535	177

Sample ID: CVS BOAT 1000 Mode: TOC
 Method: Boat Sampler Filename: 08061202
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 12:06
 Operator ID: CARLOS Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	923.9921	36.9597	9467019	17.061	18.059	124

Sample ID: ICB BOAT Mode: TOC
 Method: Boat Sampler Filename: 08061241
 Cal. Curve: BOAT CAL 07232010 Timestamp: 2010/08/06 12:43
 Operator ID: CARLOS Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	29.9630	1.1985	68079	17.012	18.011	49