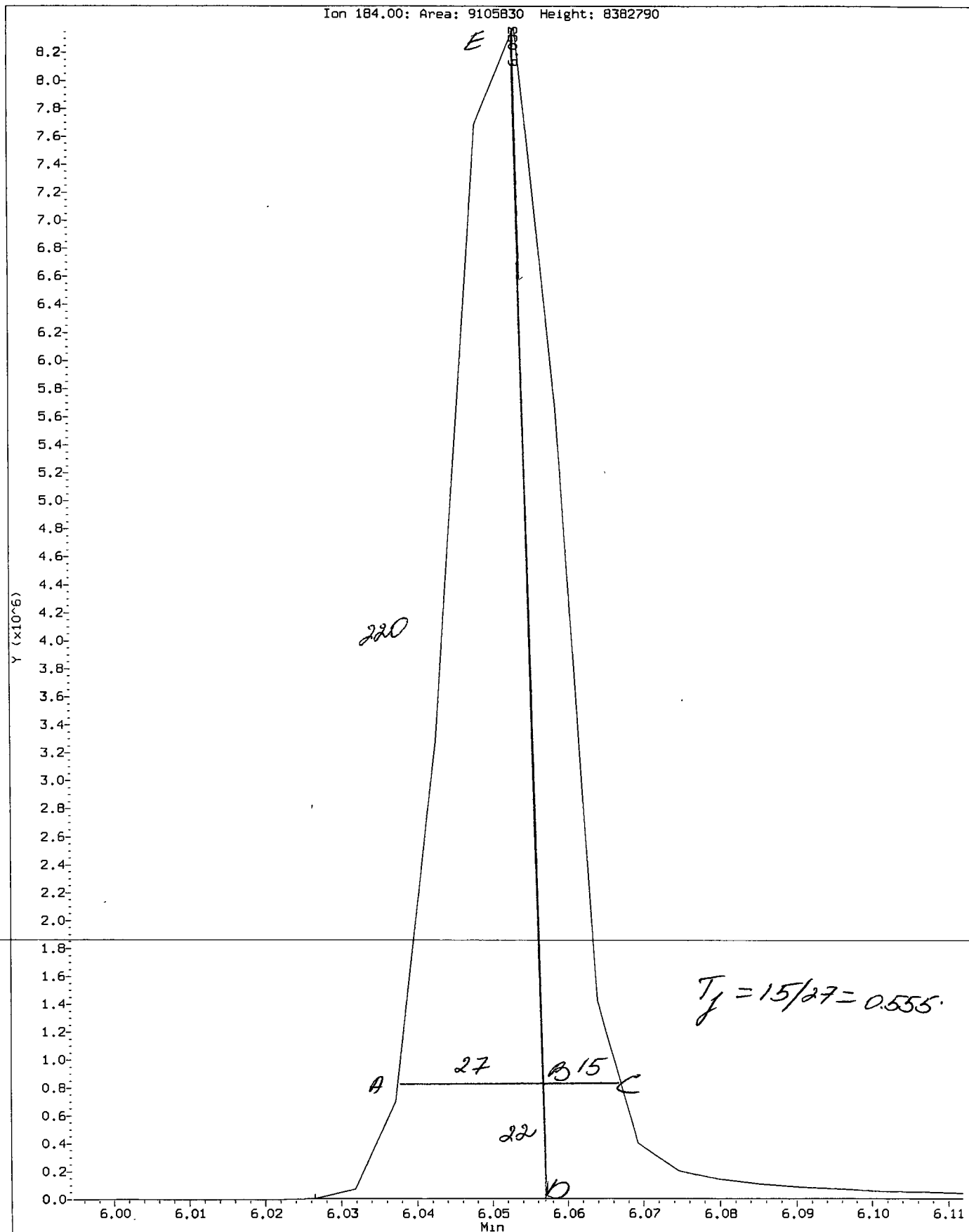


Data File: /chem3/nt11.1/20110126.b/ddt.b/df0126.d
Injection Date: 26-JAN-2011 13:28
Instrument: nt11.1
Client Sample ID:

Compound: Benzidine
CAS Number:



SF26: 00751

Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt11.i/20110126.b/ddt.b/df0126.d ARI ID: DF0126
Method: /chem3/nt11.i/20110126.b/ddt.b/sw846ddt.m Misc:
Analysis Date: 26-JAN-2011 13:28 Instrument: nt11.i

COMPOUND	RT	AREA
Pentachlorophenol	4.605	1395158
Benzidine	6.053	9105830
4,4'-DDE	6.278	18722
4,4'-DDD	6.652	151272
4,4'-DDT	6.903	4815994

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(18722 + 151272) * 100}{(18722 + 151272 + 4815994)}$$

DDT Percent Breakdown = 3.4 %

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt11.i Injection Date: 26-JAN-2011 13:42
 Lab File ID: cc0126.d Init. Cal. Date(s): 21-JAN-2011 21-JAN-2011
 Analysis Type: Init. Cal. Times: 15:30 17:28
 Lab Sample ID: CC0126 Quant Type: ISTD
 Method: /chem3/nt11.i/20110126.b/lowsim.m

COMPOUND	RRF / AMOUNT	RF250	CCAL		MIN		MAX		CURVE TYPE
			RRF250	RRF	%D	%DRIFT	%D	%DRIFT	
5 Naphthalene	0.80950	0.79438	0.79438	0.010	-1.86840	20.00000		Averaged	
\$ 6 2-Methylnaphthalene-d10	0.47965	0.44637	0.44637	0.010	-6.93741	20.00000		Averaged	
7 2-Methylnaphthalene	0.46395	0.49156	0.49156	0.010	5.95093	20.00000		Averaged	
8 1-Methylnaphthalene	0.46892	0.48231	0.48231	0.010	2.85655	20.00000		Averaged	
10 Acenaphthylene	1.29634	1.28690	1.28690	0.010	-0.72852	20.00000		Averaged	
12 Acenaphthene	0.88620	0.84682	0.84682	0.010	-4.44369	20.00000		Averaged	
14 Dibenzofuran	1.31298	1.18636	1.18636	0.010	-9.64415	20.00000		Averaged	
15 Fluorene	0.88185	0.92049	0.92049	0.010	4.38083	20.00000		Averaged	
19 Phenanthrene	0.80708	0.82008	0.82008	0.010	1.61064	20.00000		Averaged	
20 Anthracene	0.77843	0.78602	0.78602	0.010	0.97606	20.00000		Averaged	
24 Fluoranthene	0.76146	0.84467	0.84467	0.010	10.92747	20.00000		Averaged	
25 Pyrene	1.23843	1.01363	1.01363	0.010	-18.15236	20.00000		Averaged	
28 Benzo(a)anthracene	0.80620	0.81587	0.81587	0.010	1.19958	20.00000		Averaged	
30 Chrysene	1.17512	0.90914	0.90914	0.010	-22.63365	20.00000		Averaged <-	
43 Total Benzofluoranthenes	1.14310	1.01883	1.01883	0.010	-10.87170	20.00000		Averaged	
34 Benzo(a)pyrene	224	250	0.86464	0.010	-10.28613	20.00000		Quadratic	
37 Indeno(1,2,3-cd)pyrene	1.13518	1.01346	1.01346	0.010	-10.72208	20.00000		Averaged	
\$ 36 Dibenzo(a,h)anthracene-d14	0.70601	0.66564	0.66564	0.010	-5.71840	20.00000		Averaged	
38 Dibenzo(a,h)anthracene	0.84063	0.78493	0.78493	0.010	-6.62634	20.00000		Averaged	
39 Benzo(g,h,i)perylene	1.06195	0.88498	0.88498	0.010	-16.66486	20.00000		Averaged	

Analytical Resources, Inc.

YZ 01/27/11

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt11.i/20110126.b/cc0126.d
 Lab Smp Id: CC0126
 Inj Date : 26-JAN-2011 13:42
 Operator : YZ
 Smp Info : CC0126
 Misc Info :
 Comment :
 Method : /chem3/nt11.i/20110126.b/lowsim.m
 Meth Date : 26-Jan-2011 14:18 yev
 Cal Date : 21-JAN-2011 17:28
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: nt11.i
 Quant Type: ISTD
 Cal File: ic0121f.d
 Continuing Calibration Sample
 Compound Sublist: pnalnm.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/mL)	ON-COL (ng/mL)
* 4 Naphthalene-d8	136		5.697	5.697	(1.000)	321336	200.000	
5 Naphthalene	128		5.720	5.720	(1.004)	319079	250.000	245
\$ 6 2-Methylnaphthalene-d10	152		6.526	6.526	(1.145)	179294	250.000	233
7 2-Methylnaphthalene	142		6.560	6.560	(1.151)	197443	250.000	265
8 1-Methylnaphthalene	142		6.687	6.687	(1.174)	193730	250.000	257
10 Acenaphthylene	152		7.666	7.666	(0.976)	291501	250.000	248
* 11 Acenaphthene-d10	164		7.854	7.854	(1.000)	181212	200.000	
12 Acenaphthene	153		7.894	7.894	(1.005)	191817	250.000	239
14 Dibenzofuran	168		8.095	8.095	(1.031)	268727	250.000	226
15 Fluorene	166		8.511	8.511	(1.084)	208503	250.000	261
* 18 Phenanthrene-d10	188		9.677	9.677	(1.000)	304249	200.000	
19 Phenanthrene	178		9.704	9.704	(1.003)	311885	250.000	254
20 Anthracene	178		9.758	9.758	(1.008)	298934	250.000	252
24 Fluoranthene	202		11.179	11.179	(1.155)	321236	250.000	277
25 Pyrene	202		11.461	11.461	(0.884)	344336	250.000	205
28 Benzo(a)anthracene	228		12.949	12.949	(0.999)	277158	250.000	253
* 29 Chrysene-d12	240		12.963	12.963	(1.000)	271766	200.000	
30 Chrysene	228		12.989	12.989	(1.002)	308843	250.000	193
43 Total Benzofluoranthenes	252		14.239	14.239	(0.969)	566889	500.000	446
34 Benzo(a)pyrene	252		14.608	14.608	(0.994)	240549	250.000	224
* 35 Perylene-d12	264		14.688	14.688	(1.000)	222565	200.000	
37 Indeno(1,2,3-cd)pyrene	276		16.281	16.281	(1.108)	281951	250.000	223
\$ 36 Dibenzo(a,h)anthracene-d14	292		16.241	16.241	(1.106)	185186	250.000	236
38 Dibenzo(a,h)anthracene	278		16.295	16.295	(1.109)	218371	250.000	233
39 Benzo(g,h,i)perylene	276		16.751	16.751	(1.140)	246207	250.000	208

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: cc0126.d
 Lab Smp Id: CC0126
 Analysis Type: SV
 Quant Type: ISTD
 Operator: yz
 Method File: /chem3/nt11.i/20110126.b/lowsim.m
 Misc Info:

Calibration Date: 26-JAN-2011
 Calibration Time: 13:00
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

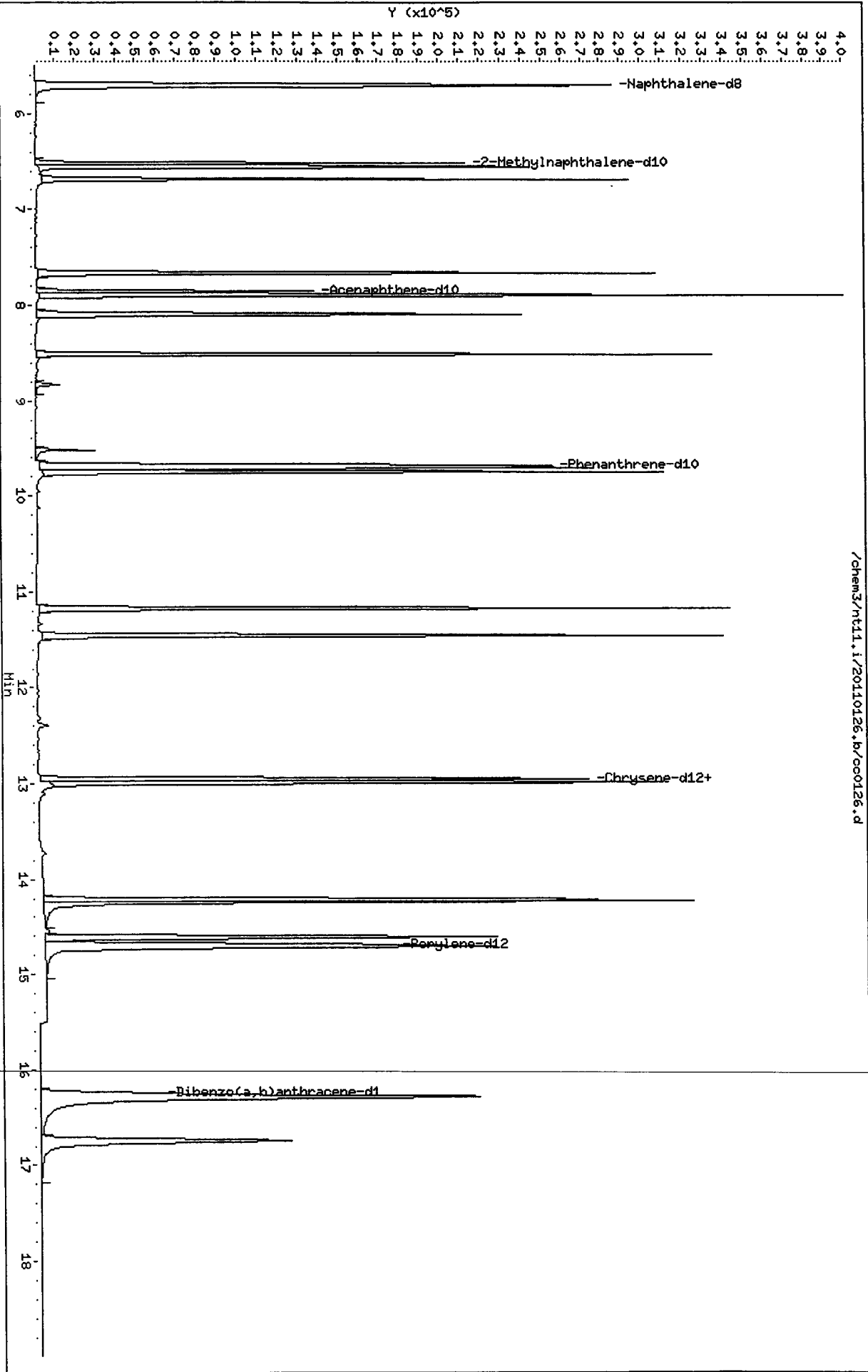
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	321336	-6.19
11 Acenaphthene-d10	185015	92508	370030	181212	-2.06
18 Phenanthrene-d10	320966	160483	641932	304249	-5.21
29 Chrysene-d12	212759	106380	425518	271766	27.73
35 Perylene-d12	156605	78302	313210	222565	42.12

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.70	5.20	6.20	5.70	0.00
11 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.00
18 Phenanthrene-d10	9.68	9.18	10.18	9.68	0.00
29 Chrysene-d12	12.96	12.46	13.46	12.96	0.00
35 Perylene-d12	14.69	14.19	15.19	14.69	0.00

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

Data File: /chem3/nt11.i/20110126.b/cc0126.d
Date: 26-JAN-2011 13:42
Client ID:
Sample Info: CC0126
Column phase: ZB-Smsi

Instrument: nt11.i
Operator: yz
Column diameter: 0.25



/chem3/nt11.i/20110126.b/cc0126.d

00 12 26 : 08 15

CO-ELUTION SUMMARY FOR FILE - cc0126.d

Lab ID: CC0126, Method: lowsim.m, Instrument: nt11.i, Date: 26-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

YZ 01/27/11

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt11.i/20110126.b/sf78mb.d
 Lab Smp Id: SF78MBW1 Client Smp ID: SF78MBW1
 Inj Date : 26-JAN-2011 19:43
 Operator : yz Inst ID: nt11.i
 Smp Info : SF78MBW1
 Misc Info : 11-1360
 Comment :
 Method : /chem3/nt11.i/20110126.b/lowsim.m
 Meth Date : 27-Jan-2011 14:32 yev Quant Type: ISTD
 Cal Date : 21-JAN-2011 17:28 Cal File: ic0121f.d
 Als bottle: 15 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalmn.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
						ON-COLUMN (ng/mL)	FINAL (ug/L)	
* 4 Naphthalene-d8	136	5.697	5.697	(1.000)	308167	200.000		
5 Naphthalene	128	Compound Not Detected.						
§ 6 2-Methylnaphthalene-d10	152	6.526	6.526	(1.145)	180184	243.803	244 (M)	
7 2-Methylnaphthalene	142	Compound Not Detected.						✓
8 1-Methylnaphthalene	142	Compound Not Detected.						
10 Acenaphthylene	152	Compound Not Detected.						
* 11 Acenaphthene-d10	164	7.854	7.854	(1.000)	183917	200.000		
12 Acenaphthene	153	Compound Not Detected.						
14 Dibenzofuran	168	Compound Not Detected.						
15 Fluorene	166	Compound Not Detected.						
* 18 Phenanthrene-d10	188	9.677	9.677	(1.000)	311544	200.000		
19 Phenanthrene	178	Compound Not Detected.						
20 Anthracene	178	Compound Not Detected.						
24 Fluoranthene	202	Compound Not Detected.						
25 Pyrene	202	Compound Not Detected.						
28 Benzo (a) anthracene	228	Compound Not Detected.						

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/mL)	FINAL (ug/L)	
*****	----	==	=====	=====	=====	=====	=====	
* 29 Chrysene-d12	240	12.963	12.963	(1.000)	257186	200.000		
30 Chrysene	228		Compound Not Detected.					
43 Total Benzofluoranthenes	252		Compound Not Detected.					
34 Benzo (a) pyrene	252		Compound Not Detected.					
* 35 Perylene-d12	264	14.677	14.688	(1.000)	205590	200.000		
37 Indeno (1,2,3-cd) pyrene	276		Compound Not Detected.					
\$ 36 Dibenzo (a,h) anthracene-d14	292	16.241	16.241	(1.107)	166000	228.730	229	
38 Dibenzo (a,h) anthracene	278		Compound Not Detected.					
39 Benzo (g,h,i) perylene	276		Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt11.i
Lab File ID: sf78mb.d
Lab Smp Id: SF78MBW1
Analysis Type: SV
Quant Type: ISTD
Operator: yz
Method File: /chem3/nt11.i/20110126.b/lowsim.m
Misc Info: 11-1360

Calibration Date: 26-JAN-2011
Calibration Time: 13:42
Client Smp ID: SF78MBW1
Level: LOW
Sample Type: Liquid

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	308167	-10.04
11 Acenaphthene-d10	185015	92508	370030	183917	-0.59
18 Phenanthrene-d10	320966	160483	641932	311544	-2.94
29 Chrysene-d12	212759	106380	425518	257186	20.88
35 Perylene-d12	156605	78302	313210	205590	31.28

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.70	5.20	6.20	5.70	0.00
11 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.00
18 Phenanthrene-d10	9.68	9.18	10.18	9.68	0.00
29 Chrysene-d12	12.96	12.46	13.46	12.96	0.00
35 Perylene-d12	14.69	14.19	15.19	14.68	-0.08

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

Analytical Resources, Inc.

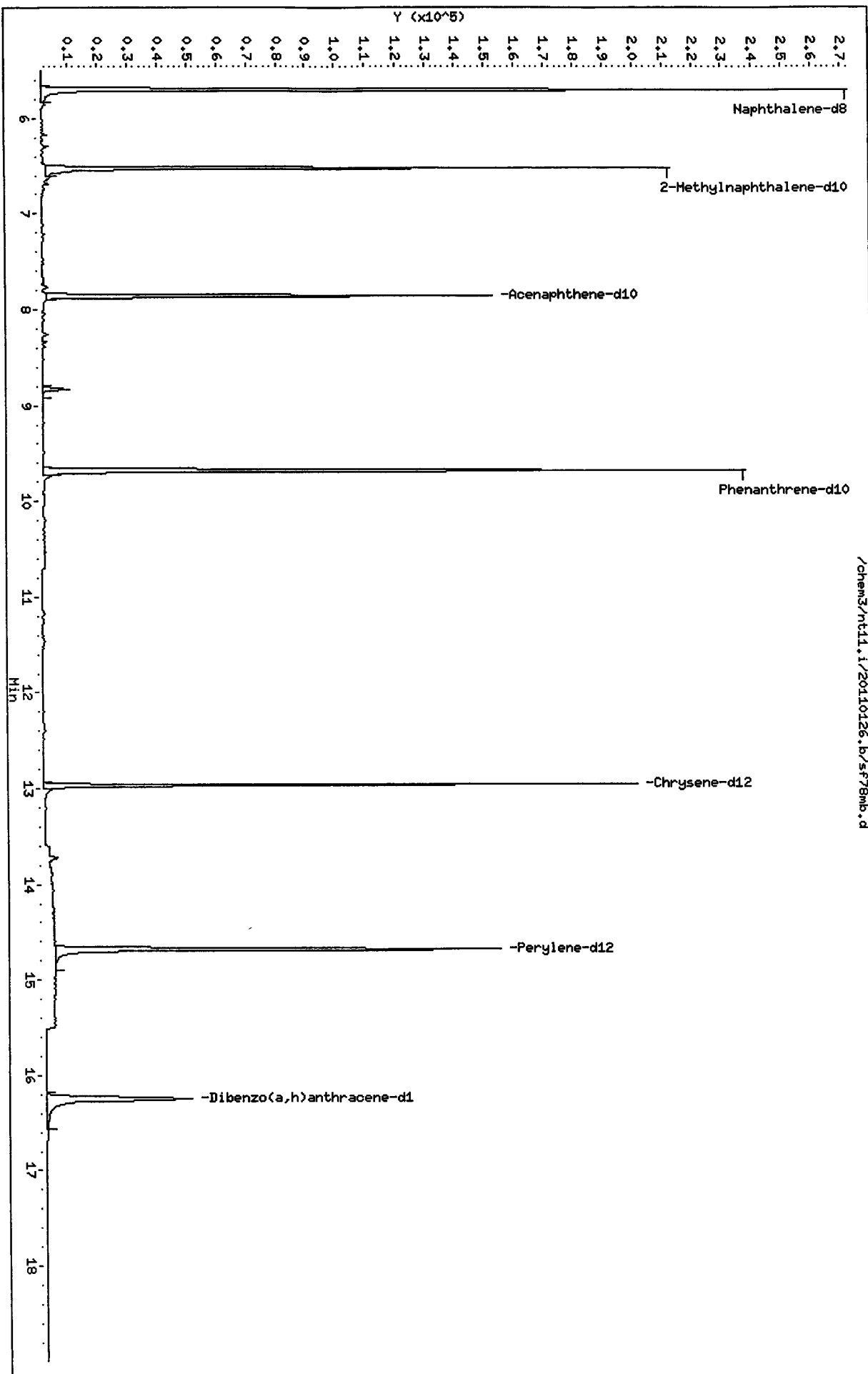
RECOVERY REPORT

Client Name: The Boeing Company Client SDG: SF78
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: SF78MBW1 Client Smp ID: SF78MBW1
Level: LOW Operator: yz
Data Type: MS DATA SampleType: BLANK
SpikeList File: waterlcs.spk Quant Type: ISTD
Sublist File: pnalnm.sub
Method File: /chem3/nt11.i/20110126.b/lowsim.m
Misc Info: 11-1360

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	300	244	81.27	31-109
\$ 36 Dibenzo(a,h)anthra	300	229	76.24	10-133

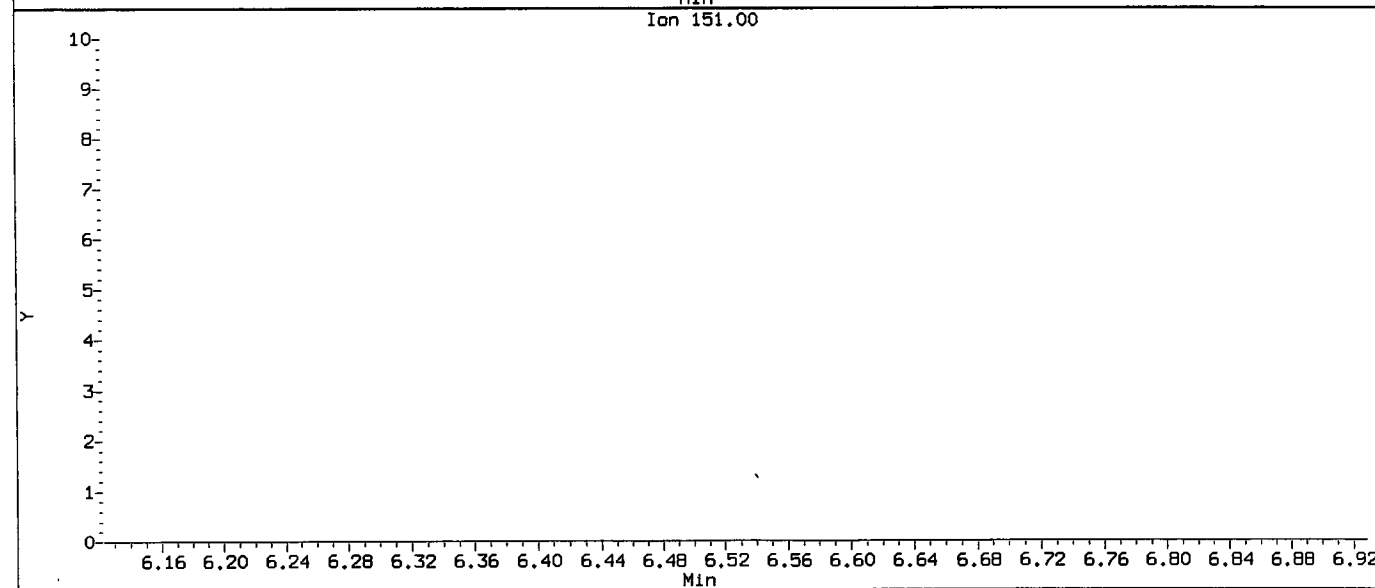
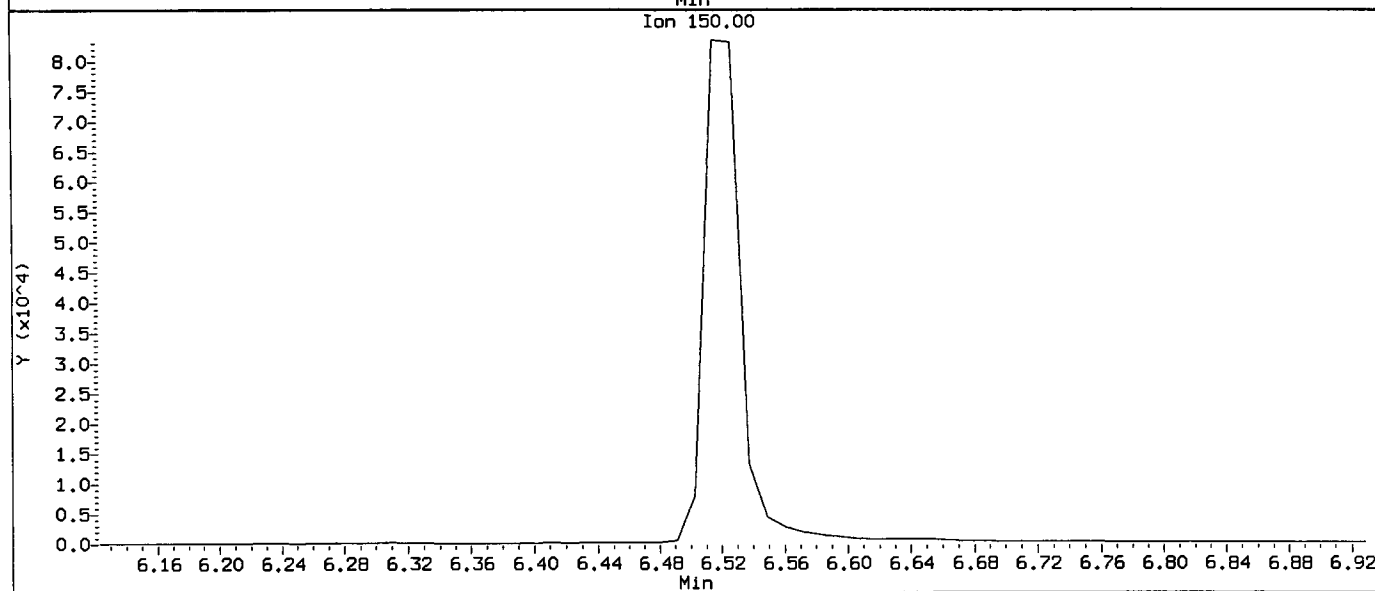
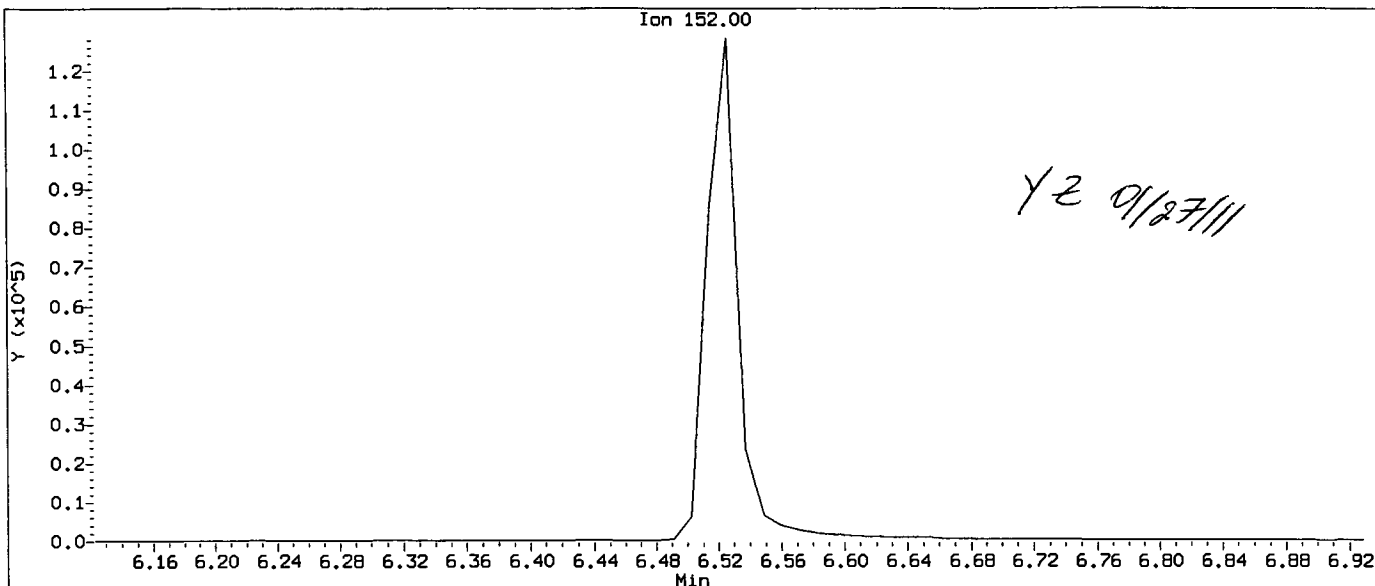
Data File: /chem3/nt11.i/20110126.b/sf78mb.d
Date: 26-JAN-2011 19:43
Client ID: SF78MBM1
Sample Info: SF78MBM1
Volume Injected (uL): 2.0
Column phase: ZB-5msi

Instrument: nt11.i
Operator: yz
Column diameter: 0.25



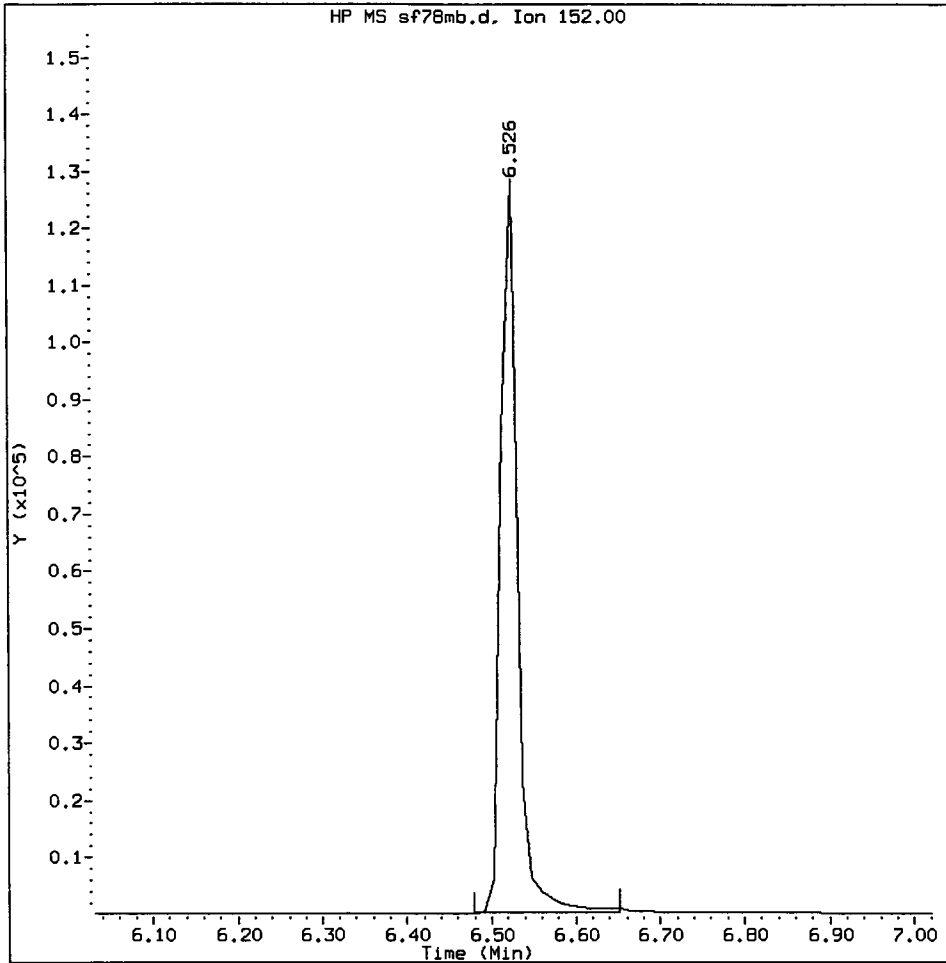
Data File: /chem3/nt11.1/20110126.b/sf78mb.d
Injection Date: 26-JAN-2011 19:43
Instrument: nt11.1
Client Sample ID: SF78MBW1

Compound: 2-Methylnaphthalene-d10
CAS Number:



SF78MBW1, /chem3/nt11.i/20110126.b/sf78mb.d

2-Methylnaphthalene-d10 Amount: 243.80 Area: 180184



MANUAL INTEGRATION for 2-Methylnaphthalene-d10

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

Analyst: YZ

Date: 01/27/11

CO-ELUTION SUMMARY FOR FILE - sf78mb.d

Lab ID: SF78MBW1, Method: lowsim.m, Instrument: nt11.i, Date: 26-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

SF26 : 00765

Analytical Resources, Inc.

YZ 01/27/11

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt11.i/20110126.b/sf78sb.d
 Lab Smp Id: SF78LCSW1 Client Smp ID: SF78LCSW1
 Inj Date : 26-JAN-2011 20:07
 Operator : yz Inst ID: nt11.i
 Smp Info : SF78LCSW1
 Misc Info : 11-1360
 Comment :
 Method : /chem3/nt11.i/20110126.b/lowsim.m
 Meth Date : 27-Jan-2011 14:31 yev Quant Type: ISTD
 Cal Date : 21-JAN-2011 17:28 Cal File: ic0121f.d
 Als bottle: 16 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalnm.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
* 4 Naphthalene-d8	136	5.697	5.697	(1.000)	322220	200.000	
5 Naphthalene	128	5.720	5.720	(1.004)	298678	229.014	229
\$ 6 2-Methylnaphthalene-d10	152	6.514	6.526	(1.143)	188774	244.286	244
7 2-Methylnaphthalene	142	6.560	6.560	(1.151)	193024	258.238	258
8 1-Methylnaphthalene	142	6.687	6.687	(1.174)	191242	253.142	253
10 Acenaphthylene	152	7.666	7.666	(0.976)	310180	240.663	241
* 11 Acenaphthene-d10	164	7.854	7.854	(1.000)	198845	200.000	
12 Acenaphthene	153	7.894	7.894	(1.005)	201235	228.395	228
14 Dibenzofuran	168	8.095	8.095	(1.031)	293195	224.602	225
15 Fluorene	166	8.511	8.511	(1.084)	244431	278.789	279
* 18 Phenanthrene-d10	188	9.677	9.677	(1.000)	332522	200.000	
19 Phenanthrene	178	9.691	9.704	(1.001)	370982	276.469	276
20 Anthracene	178	9.758	9.758	(1.008)	346610	267.814	268
24 Fluoranthene	202	11.179	11.179	(1.155)	434198	342.966	343
25 Pyrene	202	11.461	11.461	(0.884)	442167	249.120	249

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
28 Benzo(a)anthracene	228	12.936	12.949	(0.998)	349568	302.540	303
* 29 Chrysene-d12	240	12.963	12.963	(1.000)	286639	200.000	
30 Chrysene	228	12.990	12.989	(1.002)	375651	223.048	223
43 Total Benzofluoranthenes	252	14.205	14.239	(0.968)	653388	494.863	495
34 Benzo(a)pyrene	252	14.608	14.608	(0.995)	245350	220.507	221
* 35 Perylene-d12	264	14.677	14.688	(1.000)	231010	200.000	
37 Indeno(1,2,3-cd)pyrene	276	16.281	16.281	(1.109)	271728	207.238	207
\$ 36 Dibenzo(a,h)anthracene-d14	292	16.241	16.241	(1.107)	209552	256.967	257
38 Dibenzo(a,h)anthracene	278	16.295	16.295	(1.110)	220933	227.539	228
39 Benzo(g,h,i)perylene	276	16.737	16.751	(1.140)	224178	182.762	183

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: sf78sb.d
 Lab Smp Id: SF78LCSW1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: yz
 Method File: /chem3/nt11.i/20110126.b/lowsim.m
 Misc Info: 11-1360

Calibration Date: 26-JAN-2011
 Calibration Time: 13:42
 Client Smp ID: SF78LCSW1
 Level: LOW
 Sample Type: Liquid

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	322220	-5.93
11 Acenaphthene-d10	185015	92508	370030	198845	7.48
18 Phenanthrene-d10	320966	160483	641932	332522	3.60
29 Chrysene-d12	212759	106380	425518	286639	34.72
35 Perylene-d12	156605	78302	313210	231010	47.51

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.70	5.20	6.20	5.70	0.00
11 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.00
18 Phenanthrene-d10	9.68	9.18	10.18	9.68	0.00
29 Chrysene-d12	12.96	12.46	13.46	12.96	0.00
35 Perylene-d12	14.69	14.19	15.19	14.68	-0.08

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

Analytical Resources, Inc.

RECOVERY REPORT

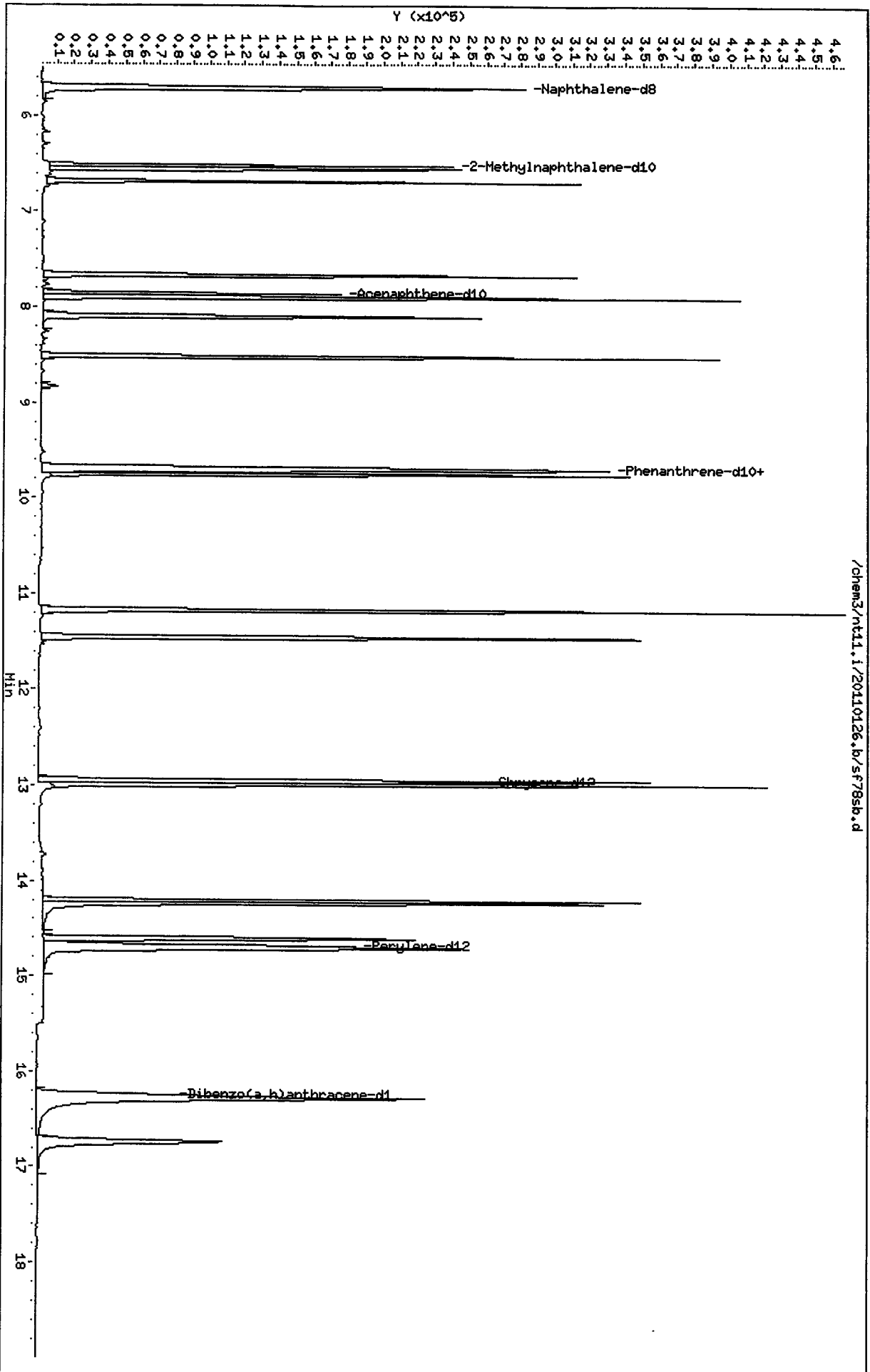
Client Name: The Boeing Company Client SDG: SF78
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: SF78LCSW1 Client Smp ID: SF78LCSW1
 Level: LOW Operator: yz
 Data Type: MS DATA SampleType: LCS
 SpikeList File: waterlcs.spk Quant Type: ISTD
 Sublist File: pnalnm.sub
 Method File: /chem3/nt11.i/20110126.b/lowsim.m
 Misc Info: 11-1360

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
5 Naphthalene	300	229	76.34	41-101
7 2-Methylnaphthalen	300	258	86.08	47-100
8 1-Methylnaphthalen	300	253	84.38	30-160
10 Acenaphthylene	300	241	80.22	35-100
12 Acenaphthene	300	228	76.13	43-104
14 Dibenzofuran	300	225	74.87	37-100
15 Fluorene	300	279	92.93	51-103
19 Phenanthrene	300	276	92.16	55-109
20 Anthracene	300	268	89.27	30-101
24 Fluoranthene	300	343	114.32	49-123
25 Pyrene	300	249	83.04	48-120
28 Benzo(a)anthracene	300	303	100.85	43-113
30 Chrysene	300	223	74.35	59-112
43 Total Benzofluoran	600	495	82.48	30-160
34 Benzo(a)pyrene	300	221	73.50	10-100
37 Indeno(1,2,3-cd)py	300	207	69.08	43-112
38 Dibenzo(a,h)anthra	300	228	75.85	42-114
39 Benzo(g,h,i)peryle	300	183	60.92	31-118

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	300	244	81.43	31-109
\$ 36 Dibenzo(a,h)anthra	300	257	85.66	10-133

Data File: /chem3/nt11.i/20110126.b/sf78sb.d
Date : 26-JAN-2011 20:07
Client ID: SF78LCSM1
Sample Info: SF78LCSM1
Volume Injected (uL): 2.0
Column phase: ZB-5msi

Instrument: nt11.i
Operator: yz
Column diameter: 0.25



CO-ELUTION SUMMARY FOR FILE - sf78sb.d

Lab ID: SF78LCSW1, Method: lowsim.m, Instrument: nt11.i, Date: 26-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

SF26 : 00771

Analytical Resources, Inc.

LOW LEVEL PNAS BY SW8270D-SIM

yz d/27/11

Data file : /chem3/nt11.i/20110126.b/sf78sbd.d
 Lab Smp Id: SF78LCSDW1 Client Smp ID: SF78LCSDW1
 Inj Date : 26-JAN-2011 20:30
 Operator : yz Inst ID: nt11.i
 Smp Info : SF78LCSDW1
 Misc Info : 11-1360
 Comment :
 Method : /chem3/nt11.i/20110126.b/lowsim.m
 Meth Date : 27-Jan-2011 14:31 yev Quant Type: ISTD
 Cal Date : 21-JAN-2011 17:28 Cal File: ic0121f.d
 Als bottle: 17 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalnm.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
* 4 Naphthalene-d8	136	5.697	5.697	(1.000)	339914	200.000	
5 Naphthalene	128	5.720	5.720	(1.004)	305381	221.964	222
\$ 6 2-Methylnaphthalene-d10	152	6.526	6.526	(1.145)	178804	219.340	219
7 2-Methylnaphthalene	142	6.560	6.560	(1.151)	193691	245.642	246
8 1-Methylnaphthalene	142	6.687	6.687	(1.174)	193007	242.179	242
10 Acenaphthylene	152	7.666	7.666	(0.976)	306412	233.118	233
* 11 Acenaphthene-d10	164	7.854	7.854	(1.000)	202787	200.000	
12 Acenaphthene	153	7.894	7.894	(1.005)	199673	222.217	222
14 Dibenzofuran	168	8.095	8.095	(1.031)	296059	222.387	222
15 Fluorene	166	8.511	8.511	(1.084)	240955	269.482	269
* 18 Phenanthrene-d10	188	9.677	9.677	(1.000)	343449	200.000	
19 Phenanthrene	178	9.691	9.704	(1.001)	379663	273.936	274
20 Anthracene	178	9.758	9.758	(1.008)	349070	261.134	261
24 Fluoranthene	202	11.179	11.179	(1.155)	431677	330.127	330
25 Pyrene	202	11.461	11.461	(0.884)	443256	243.758	244

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
28 Benzo(a)anthracene	228	12.936	12.949	(0.998)	348858	294.701	295
* 29 Chrysene-d12	240	12.963	12.963	(1.000)	293666	200.000	
30 Chrysene	228	12.990	12.989	(1.002)	375575	217.667	218
43 Total Benzofluoranthenes	252	14.239	14.239	(0.970)	666435	489.935	490
34 Benzo(a)pyrene	252	14.608	14.608	(0.995)	250684	218.741	219
* 35 Perylene-d12	264	14.677	14.688	(1.000)	237993	200.000	
37 Indeno(1,2,3-cd)pyrene	276	16.281	16.281	(1.109)	281836	208.641	209
\$ 36 Dibenzo(a,h)anthracene-d14	292	16.241	16.241	(1.107)	205929	245.115	245
38 Dibenzo(a,h)anthracene	278	16.295	16.295	(1.110)	230259	230.186	230
39 Benzo(g,h,i)perylene	276	16.751	16.751	(1.141)	231505	183.198	183

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: sf78sbd.d
 Lab Smp Id: SF78LCSDW1
 Analysis Type: SV
 Quant Type: ISTD
 Operator: yz
 Method File: /chem3/nt11.i/20110126.b/lowsim.m
 Misc Info: 11-1360

Calibration Date: 26-JAN-2011
 Calibration Time: 13:42
 Client Smp ID: SF78LCSDW1
 Level: LOW
 Sample Type: Liquid

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	339914	-0.77
11 Acenaphthene-d10	185015	92508	370030	202787	9.61
18 Phenanthrene-d10	320966	160483	641932	343449	7.00
29 Chrysene-d12	212759	106380	425518	293666	38.03
35 Perylene-d12	156605	78302	313210	237993	51.97

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.70	5.20	6.20	5.70	0.00
11 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.00
18 Phenanthrene-d10	9.68	9.18	10.18	9.68	0.00
29 Chrysene-d12	12.96	12.46	13.46	12.96	0.00
35 Perylene-d12	14.69	14.19	15.19	14.68	-0.08

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

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: The Boeing Company Client SDG: SF78
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: SF78LCSDW1 Client Smp ID: SF78LCSDW1
 Level: LOW Operator: yz
 Data Type: MS DATA SampleType: LCSD
 SpikeList File: waterlcs.spk Quant Type: ISTD
 Sublist File: pnalnm.sub
 Method File: /chem3/nt11.i/20110126.b/lowsim.m
 Misc Info: 11-1360

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
5 Naphthalene	300	222	73.99	41-101
7 2-Methylnaphthalen	300	246	81.88	47-100
8 1-Methylnaphthalen	300	242	80.73	30-160
10 Acenaphthylene	300	233	77.71	35-100
12 Acenaphthene	300	222	74.07	43-104
14 Dibenzofuran	300	222	74.13	37-100
15 Fluorene	300	269	89.83	51-103
19 Phenanthrene	300	274	91.31	55-109
20 Anthracene	300	261	87.04	30-101
24 Fluoranthene	300	330	110.04	49-123
25 Pyrene	300	244	81.25	48-120
28 Benzo(a)anthracene	300	295	98.23	43-113
30 Chrysene	300	218	72.56	59-112
43 Total Benzofluoran	600	490	81.66	30-160
34 Benzo(a)pyrene	300	219	72.91	10-100
37 Indeno(1,2,3-cd)py	300	209	69.55	43-112
38 Dibenzo(a,h)anthra	300	230	76.73	42-114
39 Benzo(g,h,i)peryle	300	183	61.07	31-118

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	300	219	73.11	31-109
\$ 36 Dibenzo(a,h)anthra	300	245	81.70	10-133

Date: 26-JAN-2011 20:30

Client ID: SF78LCS0M1

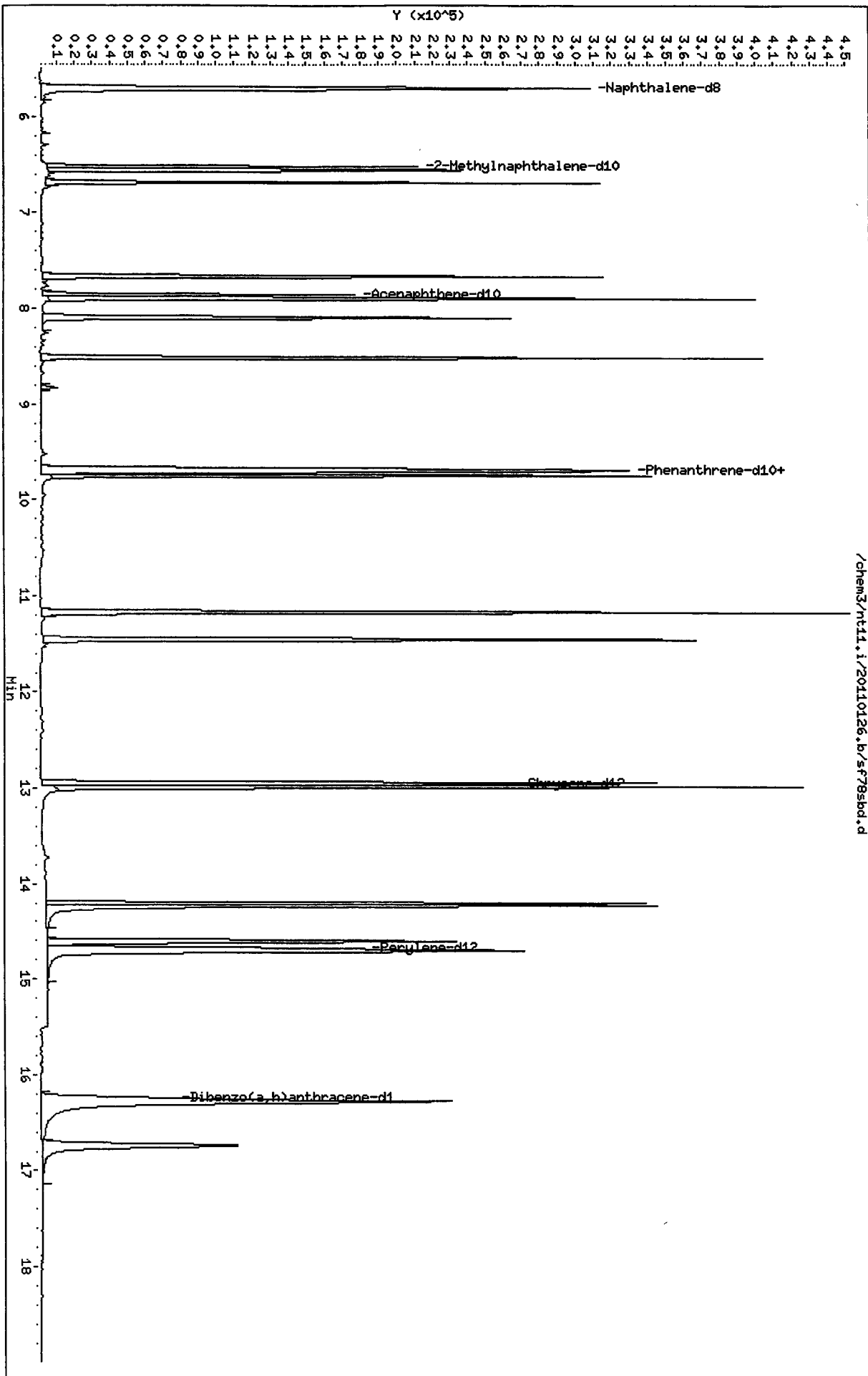
Instrument: nt11.i

Sample Info: SF78LCS0M1

Volume Injected (uL): 2.0

Operator: yz
Column diameter: 0.25

Column phase: ZB-Smsi



CO-ELUTION SUMMARY FOR FILE - sf78sbd.d

Lab ID: SF78LCSDW1, Method: lowsim.m, Instrument: nt11.i, Date: 26-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

yz 01/27/11

LOW LEVEL PNA's BY SW8270D-SIM

Data file : /chem3/nt11.i/20110126.b/sf26a.d
 Lab Smp Id: SF26A Client Smp ID: MW11-011911
 Inj Date : 26-JAN-2011 22:04
 Operator : yz Inst ID: nt11.i
 Smp Info : SF26A
 Misc Info : 11-1071
 Comment :
 Method : /chem3/nt11.i/20110126.b/lowsim.m
 Meth Date : 27-Jan-2011 15:11 yev Quant Type: ISTD
 Cal Date : 21-JAN-2011 17:28 Cal File: ic0121f.d
 Als bottle: 21
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalmn.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
* 4 Naphthalene-d8	136	5.697	5.697	(1.000)	343112	200.000	
5 Naphthalene	128	5.720	5.720	(1.004)	14577	10.4970	10.5
\$ 6 2-Methylnaphthalene-d10	152	6.526	6.526	(1.145)	171492	208.410	208
7 2-Methylnaphthalene	142				Compound Not Detected.		
8 1-Methylnaphthalene	142				Compound Not Detected.		
10 Acenaphthylene	152				Compound Not Detected.		
* 11 Acenaphthene-d10	164	7.854	7.854	(1.000)	203272	200.000	
12 Acenaphthene	153				Compound Not Detected.		
14 Dibenzofuran	168				Compound Not Detected.		
15 Fluorene	166				Compound Not Detected.		
* 18 Phenanthrene-d10	188	9.677	9.677	(1.000)	353096	200.000	
19 Phenanthrene	178				Compound Not Detected.		
20 Anthracene	178				Compound Not Detected.		
24 Fluoranthene	202				Compound Not Detected.		
25 Pyrene	202				Compound Not Detected.		
28 Benzo(a)anthracene	228				Compound Not Detected.		

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
						ON-COLUMN (ng/mL)	FINAL (ug/L)	
* 29 Chrysene-d12	240	12.963	12.963	(1.000)	294024	200.000		
30 Chrysene	228	Compound Not Detected.						
43 Total Benzofluoranthenes	252	Compound Not Detected.						
34 Benzo(a)pyrene	252	Compound Not Detected.						
* 35 Perylene-d12	264	14.677	14.688	(1.000)	235449	200.000		
37 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.						
\$ 36 Dibenzo(a,h)anthracene-d14	292	16.241	16.241	(1.107)	214879	258.531	259	
38 Dibenzo(a,h)anthracene	278	Compound Not Detected.						
39 Benzo(g,h,i)perylene	276	Compound Not Detected.						

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i	Calibration Date: 26-JAN-2011
Lab File ID: sf26a.d	Calibration Time: 13:42
Lab Smp Id: SF26A	Client Smp ID: MW11-011911
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: Groundwater
Operator: yz	
Method File: /chem3/nt11.i/20110126.b/lowsim.m	
Misc Info: 11-1071	

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	343112	0.16
11 Acenaphthene-d10	185015	92508	370030	203272	9.87
18 Phenanthrene-d10	320966	160483	641932	353096	10.01
29 Chrysene-d12	212759	106380	425518	294024	38.20
35 Perylene-d12	156605	78302	313210	235449	50.35

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.70	5.20	6.20	5.70	0.00
11 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.00
18 Phenanthrene-d10	9.68	9.18	10.18	9.68	0.00
29 Chrysene-d12	12.96	12.46	13.46	12.96	0.00
35 Perylene-d12	14.69	14.19	15.19	14.68	-0.08

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

Analytical Resources, Inc.

RECOVERY REPORT

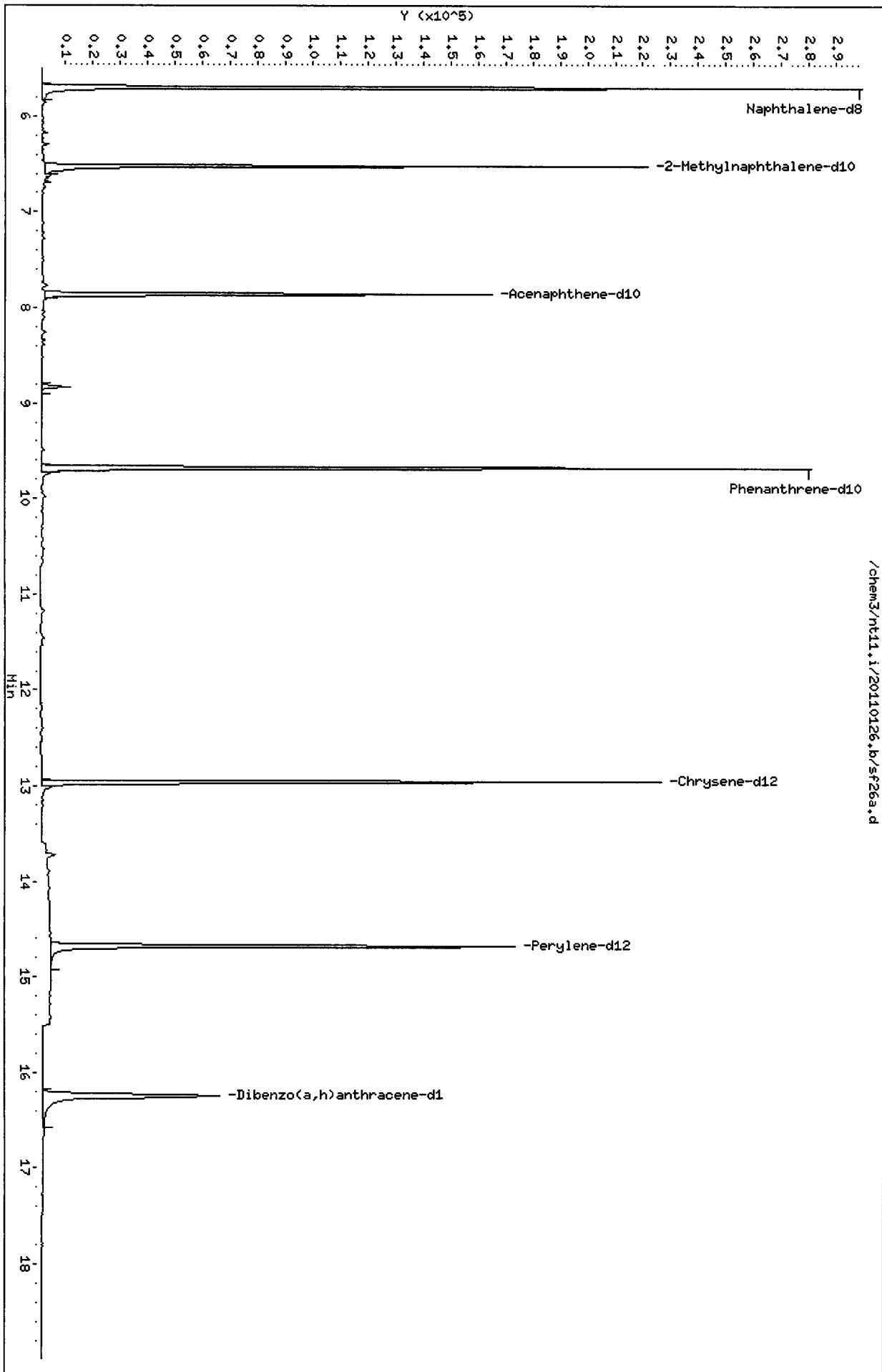
Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: SF26A
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: pnalnm.sub
Method File: /chem3/nt11.i/20110126.b/lowsim.m
Misc Info: 11-1071

Client SDG: SF26
Fraction: SV
Client Smp ID: MW11-011911
Operator: yz
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	300	208	69.47	31-109
\$ 36 Dibenzo(a,h) anthra	300	259	86.18	10-133

Data File: /chem3/nt11.i/20110126.b/sf26a.d
Date : 26-JAN-2011 22:04
Client ID: M411-011911
Sample Info: SF26A
Volume Injected (UL): 2.0
Column phase: ZB-5msi

Instrument: nt11.i
Operator: yz
Column diameter: 0.25



SF 26 : 00702

CO-ELUTION SUMMARY FOR FILE - sf26a.d

Lab ID: SF26A, Method: lowsim.m, Instrument: nt11.i, Date: 26-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

YZ 01/27/11

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt11.i/20110126.b/sf26b.d
 Lab Smp Id: SF26B Client Smp ID: MW10-011911
 Inj Date : 26-JAN-2011 22:28
 Operator : yz Inst ID: nt11.i
 Smp Info : SF26B
 Misc Info : 11-1072
 Comment :
 Method : /chem3/nt11.i/20110126.b/lowsim.m
 Meth Date : 27-Jan-2011 15:11 yev Quant Type: ISTD
 Cal Date : 21-JAN-2011 17:28 Cal File: ic0121f.d
 Als bottle: 22
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalmn.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
* 4 Naphthalene-d8	136	5.697	5.697	(1.000)	332728	200.000	
5 Naphthalene	128	5.720	5.720	(1.004)	10649	7.90763	7.91
\$ 6 2-Methylnaphthalene-d10	152	6.526	6.526	(1.145)	176065	220.645	221
7 2-Methylnaphthalene	142	Compound Not Detected.					
8 1-Methylnaphthalene	142	Compound Not Detected.					
10 Acenaphthylene	152	Compound Not Detected.					
* 11 Acenaphthene-d10	164	7.854	7.854	(1.000)	201655	200.000	
12 Acenaphthene	153	Compound Not Detected.					
14 Dibenzofuran	168	Compound Not Detected.					
15 Fluorene	166	Compound Not Detected.					
* 18 Phenanthrene-d10	188	9.677	9.677	(1.000)	344316	200.000	
19 Phenanthrene	178	Compound Not Detected.					
20 Anthracene	178	Compound Not Detected.					
24 Fluoranthene	202	Compound Not Detected.					
25 Pyrene	202	Compound Not Detected.					
28 Benzo (a) anthracene	228	Compound Not Detected.					

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/mL)	FINAL (ug/L)
*****	****	==	*****	*****	*****	*****	*****
* 29 Chrysene-d12	240	12.963	12.963	(1.000)	286670	200.000	
30 Chrysene	228				Compound Not Detected.		
43 Total Benzo(a)fluoranthenes	252				Compound Not Detected.		
34 Benzo(a)pyrene	252				Compound Not Detected.		
* 35 Perylene-d12	264	14.677	14.688	(1.000)	229407	200.000	
37 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
\$ 36 Dibenzo(a,h)anthracene-d14	292	16.241	16.241	(1.107)	208255	257.161	257
38 Dibenzo(a,h)anthracene	278				Compound Not Detected.		
39 Benzo(g,h,i)perylene	276				Compound Not Detected.		

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i	Calibration Date: 26-JAN-2011
Lab File ID: sf26b.d	Calibration Time: 13:42
Lab Smp Id: SF26B	Client Smp ID: MW10-011911
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: Groundwater
Operator: yz	
Method File: /chem3/nt11.i/20110126.b/lowsim.m	
Misc Info: 11-1072	

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	332728	-2.87
11 Acenaphthene-d10	185015	92508	370030	201655	8.99
18 Phenanthrene-d10	320966	160483	641932	344316	7.27
29 Chrysene-d12	212759	106380	425518	286670	34.74
35 Perylene-d12	156605	78302	313210	229407	46.49

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.70	5.20	6.20	5.70	0.00
11 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.00
18 Phenanthrene-d10	9.68	9.18	10.18	9.68	0.00
29 Chrysene-d12	12.96	12.46	13.46	12.96	0.00
35 Perylene-d12	14.69	14.19	15.19	14.68	-0.08

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

Analytical Resources, Inc.

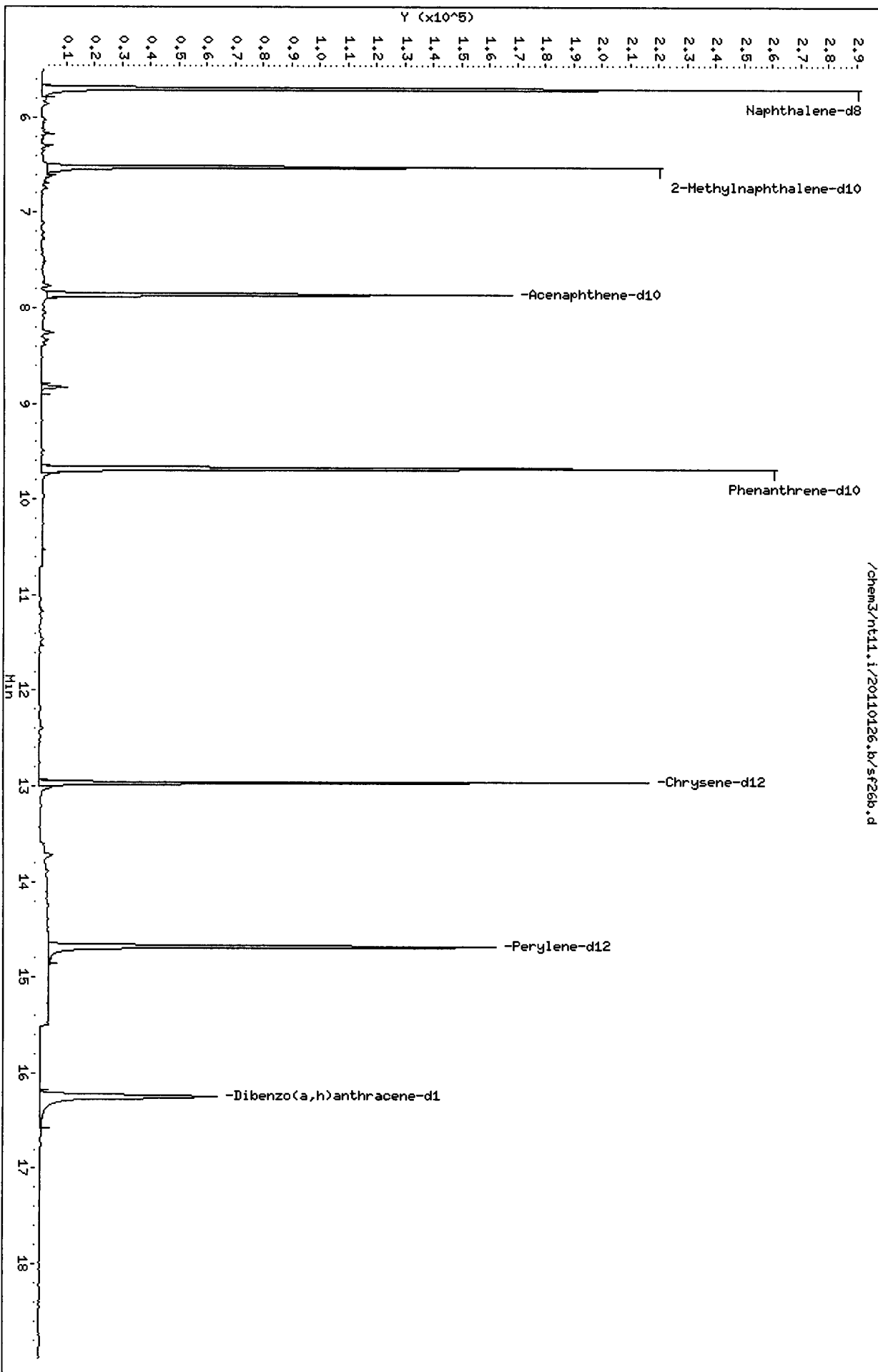
RECOVERY REPORT

Client Name: Floyd-Snyder Client SDG: SF26
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: SF26B Client Smp ID: MW10-011911
Level: LOW Operator: yz
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: waterlcs.spk Quant Type: ISTD
Sublist File: pnalmn.sub
Method File: /chem3/nt11.i/20110126.b/lowsim.m
Misc Info: 11-1072

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	300	221	73.55	31-109
\$ 36 Dibenzo(a,h)anthra	300	257	85.72	10-133

Data File: /chem3/nt11.i/20110126.b/sf26b.d
Date : 26-JAN-2011 22:28
Client ID: MW10-011911
Sample Info: SF26B
Volume Injected (uL): 2.0
Column phase: ZB-Gmsi

Instrument: nt11.i
Operator: yz
Column diameter: 0.25



00 20 : 00 70 00

CO-ELUTION SUMMARY FOR FILE - sf26b.d

Lab ID: SF26B, Method: lowsims.m, Instrument: nt11.i, Date: 26-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

YZ 01/27/11

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt11.i/20110126.b/sf26c.d
 Lab Smp Id: SF26C Client Smp ID: MW07-011911
 Inj Date : 26-JAN-2011 22:52
 Operator : yz Inst ID: nt11.i
 Smp Info : SF26C
 Misc Info : 11-1073
 Comment :
 Method : /chem3/nt11.i/20110126.b/lowsim.m
 Meth Date : 27-Jan-2011 15:11 yev Quant Type: ISTD
 Cal Date : 21-JAN-2011 17:28 Cal File: ic0121f.d
 Als bottle: 23
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalmn.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/mL)	FINAL (ug/L)
* 4 Naphthalene-d8	====	136	5.697	5.697	(1.000)	337701	200.000	
5 Naphthalene	==	128	5.720	5.720	(1.004)	10148	7.42441	7.42
\$ 6 2-Methylnaphthalene-d10	=====	152	6.526	6.526	(1.145)	152607	188.430	188
7 2-Methylnaphthalene		142	Compound Not Detected.					
8 1-Methylnaphthalene		142	Compound Not Detected.					
10 Acenaphthylene		152	Compound Not Detected.					
* 11 Acenaphthene-d10		164	7.854	7.854	(1.000)	202747	200.000	
12 Acenaphthene		153	Compound Not Detected.					
14 Dibenzofuran		168	Compound Not Detected.					
15 Fluorene		166	Compound Not Detected.					
* 18 Phenanthrene-d10		188	9.677	9.677	(1.000)	345404	200.000	
19 Phenanthrene		178	Compound Not Detected.					
20 Anthracene		178	Compound Not Detected.					
24 Fluoranthene		202	Compound Not Detected.					
25 Pyrene		202	Compound Not Detected.					
28 Benzo (a) anthracene		228	Compound Not Detected.					

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
* 29 Chrysene-d12	240	12.963	12.963	(1.000)	286986	200.000	
30 Chrysene	228				Compound Not Detected.		
43 Total Benzofluoranthenes	252				Compound Not Detected.		
34 Benzo(a)pyrene	252				Compound Not Detected.		
* 35 Perylene-d12	264	14.677	14.688	(1.000)	228324	200.000	
37 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
\$ 36 Dibenzo(a,h)anthracene-d14	292	16.241	16.241	(1.107)	202110	250.757	251
38 Dibenzo(a,h)anthracene	278				Compound Not Detected.		
39 Benzo(g,h,i)perylene	276				Compound Not Detected.		

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i	Calibration Date: 26-JAN-2011
Lab File ID: sf26c.d	Calibration Time: 13:42
Lab Smp Id: SF26C	Client Smp ID: MW07-011911
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: Groundwater
Operator: yz	
Method File: /chem3/nt11.i/20110126.b/lowsim.m	
Misc Info: 11-1073	

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	337701	-1.42
11 Acenaphthene-d10	185015	92508	370030	202747	9.58
18 Phenanthrene-d10	320966	160483	641932	345404	7.61
29 Chrysene-d12	212759	106380	425518	286986	34.89
35 Perylene-d12	156605	78302	313210	228324	45.80

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.70	5.20	6.20	5.70	0.00
11 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.00
18 Phenanthrene-d10	9.68	9.18	10.18	9.68	0.00
29 Chrysene-d12	12.96	12.46	13.46	12.96	0.00
35 Perylene-d12	14.69	14.19	15.19	14.68	-0.08

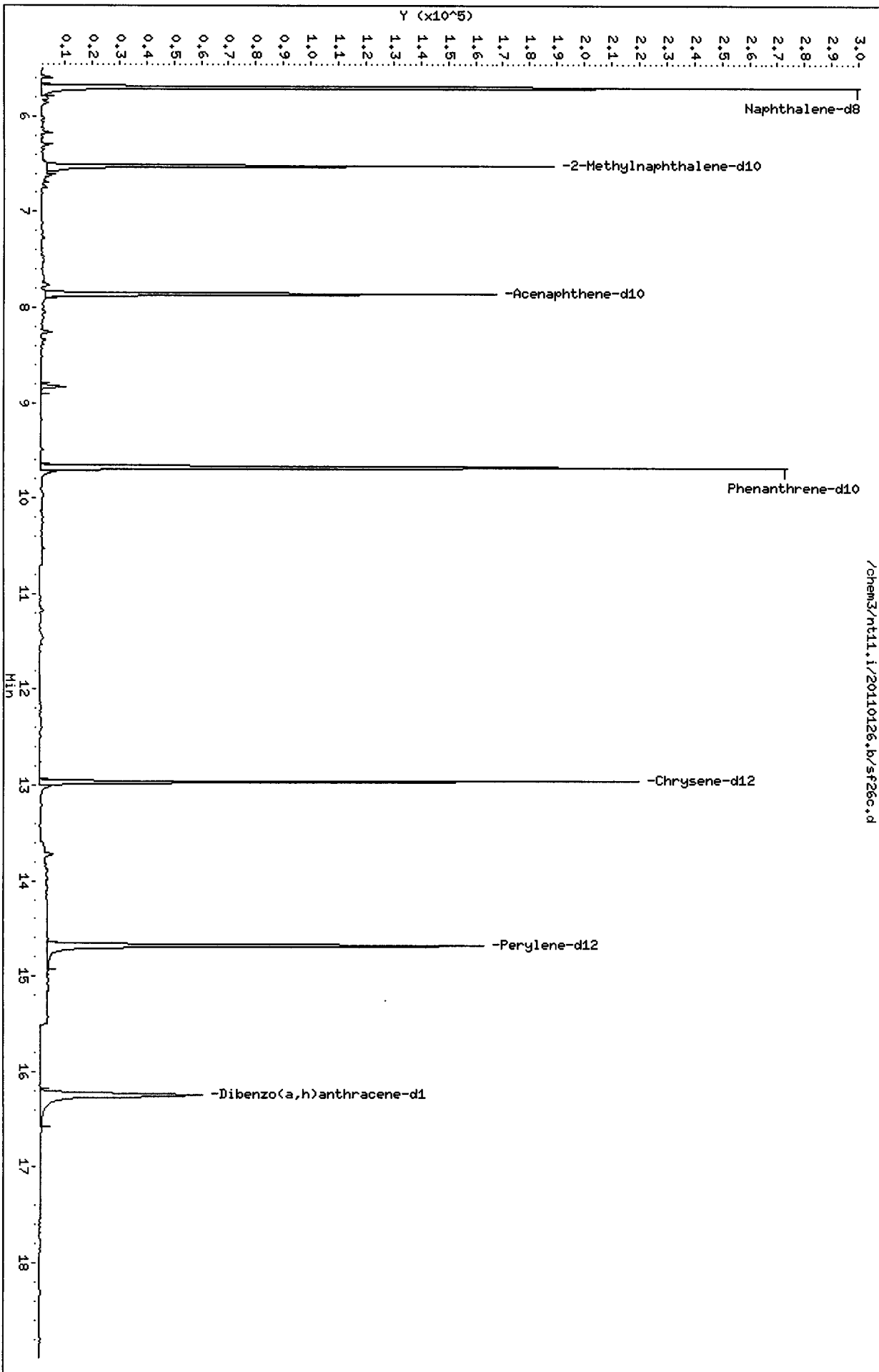
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snyder Client SDG: SF26
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: SF26C Client Smp ID: MW07-011911
 Level: LOW Operator: yz
 Data Type: MS DATA SampleType: SAMPLE
 SpikeList File: waterlcs.spk Quant Type: ISTD
 Sublist File: pna1mn.sub
 Method File: /chem3/nt11.i/20110126.b/lowsim.m
 Misc Info: 11-1073

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	300	188	62.81	31-109
\$ 36 Dibenzo(a,h)anthra	300	251	83.59	10-133



11 10 9 8 7 6 5 4 3 2 1

CO-ELUTION SUMMARY FOR FILE - sf26c.d

Lab ID: SF26C, Method: lowsims.m, Instrument: nt11.i, Date: 26-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

yz 01/27/11

Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt11.i/20110126.b/sf26d.d
 Lab Smp Id: SF26D Client Smp ID: MW14-011911
 Inj Date : 26-JAN-2011 23:15
 Operator : yz Inst ID: nt11.i
 Smp Info : SF26D
 Misc Info : 11-1074
 Comment :
 Method : /chem3/nt11.i/20110126.b/lowsim.m
 Meth Date : 27-Jan-2011 15:11 yev Quant Type: ISTD
 Cal Date : 21-JAN-2011 17:28 Cal File: ic0121f.d
 Als bottle: 24
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalmn.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
* 4 Naphthalene-d8	136	5.697	5.697	(1.000)	331992	200.000	
5 Naphthalene	128	5.720	5.720	(1.004)	21886	16.2878	16.3
\$ 6 2-Methylnaphthalene-d10	152	6.526	6.526	(1.145)	177019	222.332	222
7 2-Methylnaphthalene	142	Compound Not Detected.					
8 1-Methylnaphthalene	142	Compound Not Detected.					
10 Acenaphthylene	152	Compound Not Detected.					
* 11 Acenaphthene-d10	164	7.854	7.854	(1.000)	195883	200.000	
12 Acenaphthene	153	Compound Not Detected.					
14 Dibenzofuran	168	Compound Not Detected.					
15 Fluorene	166	Compound Not Detected.					
* 18 Phenanthrene-d10	188	9.677	9.677	(1.000)	337087	200.000	
19 Phenanthrene	178	Compound Not Detected.					
20 Anthracene	178	Compound Not Detected.					
24 Fluoranthene	202	Compound Not Detected.					
25 Pyrene	202	Compound Not Detected.					
28 Benzo (a) anthracene	228	Compound Not Detected.					

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
* 29 Chrysene-d12	240	12.963	12.963	(1.000)	276037	200.000	
30 Chrysene	228				Compound Not Detected.		
43 Total Benzofluoranthenes	252				Compound Not Detected.		
34 Benzo(a)pyrene	252				Compound Not Detected.		
* 35 Perylene-d12	264	14.677	14.688	(1.000)	225870	200.000	
37 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
\$ 36 Dibenzo(a,h)anthracene-d14	292	16.241	16.241	(1.107)	210074	263.470	263
38 Dibenzo(a,h)anthracene	278				Compound Not Detected.		
39 Benzo(g,h,i)perylene	276				Compound Not Detected.		

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt11.i	Calibration Date: 26-JAN-2011
Lab File ID: sf26d.d	Calibration Time: 13:42
Lab Smp Id: SF26D	Client Smp ID: MW14-011911
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: Groundwater
Operator: yz	
Method File: /chem3/nt11.i/20110126.b/lowsim.m	
Misc Info: 11-1074	

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	331992	-3.08
11 Acenaphthene-d10	185015	92508	370030	195883	5.87
18 Phenanthrene-d10	320966	160483	641932	337087	5.02
29 Chrysene-d12	212759	106380	425518	276037	29.74
35 Perylene-d12	156605	78302	313210	225870	44.23

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.70	5.20	6.20	5.70	0.00
11 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.00
18 Phenanthrene-d10	9.68	9.18	10.18	9.68	0.00
29 Chrysene-d12	12.96	12.46	13.46	12.96	0.00
35 Perylene-d12	14.69	14.19	15.19	14.68	-0.08

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

Analytical Resources, Inc.

RECOVERY REPORT

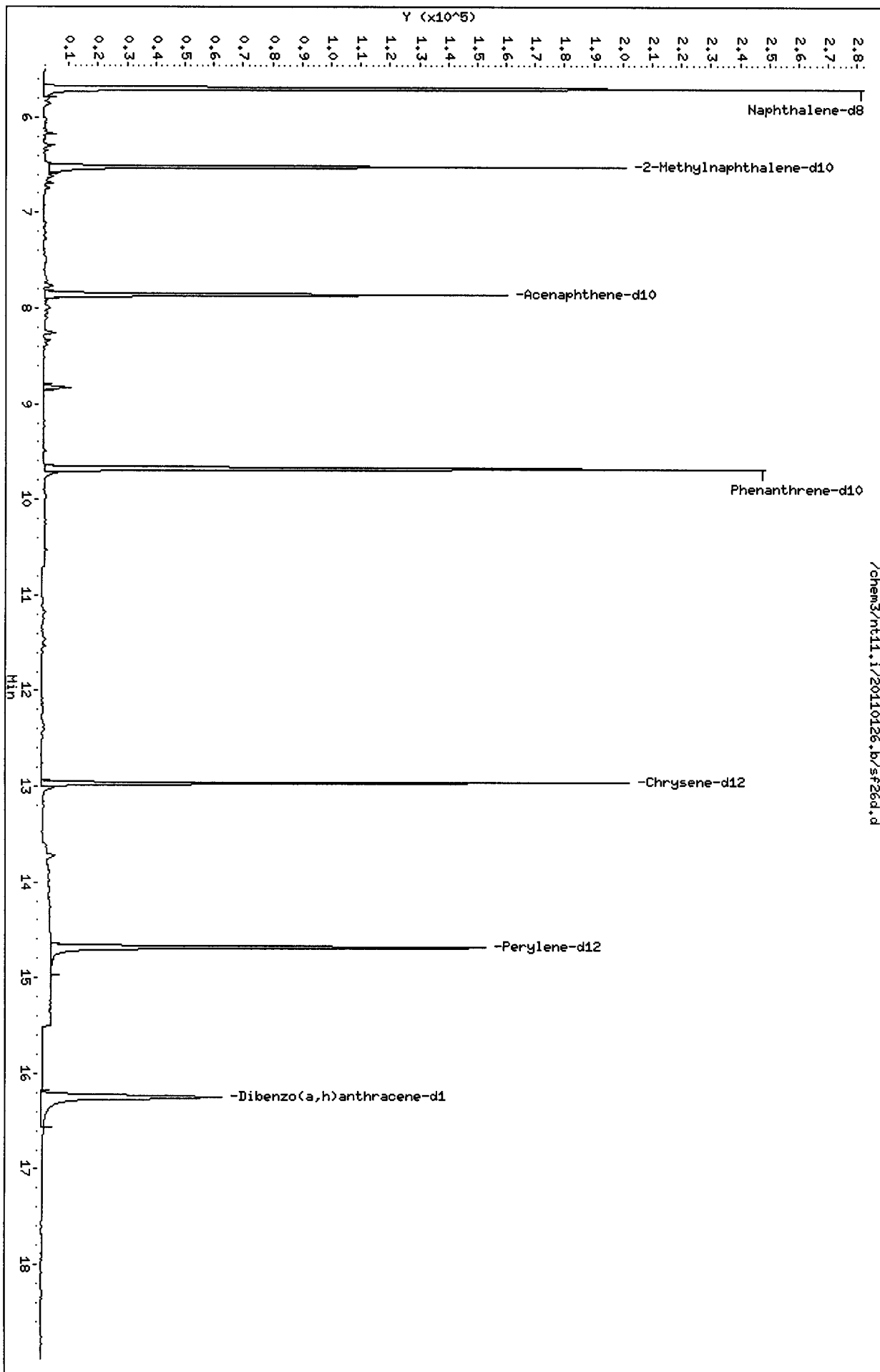
Client Name: Floyd-Snider
Sample Matrix: LIQUID
Lab Smp Id: SF26D
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: pnalnmn.sub
Method File: /chem3/nt11.i/20110126.b/lowsim.m
Misc Info: 11-1074

Client SDG: SF26
Fraction: SV
Client Smp ID: MW14-011911
Operator: yz
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	300	222	74.11	31-109
\$ 36 Dibenzo(a,h)anthra	300	263	87.82	10-133

Data File: /chem3/nt11.i/20110126.b/sf26d.d
Date : 26-JAN-2011 23:15
Client ID: MW4-011911
Sample Info: SF26D
Volume Injected (UL): 2.0
Column phase: ZB-5msi

Instrument: nt11.i
Operator: yz
Column diameter: 0.25



/chem3/nt11.i/20110126.b/sf26d.d

CO-ELUTION SUMMARY FOR FILE - sf26d.d

Lab ID: SF26D, Method: lowsim.m, Instrument: nt11.i, Date: 26-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

SF26 : 00801

Analytical Resources Inc.: Organics Instrument Log
NT-11 Serial No.:GC=US10140004, MS=US10481502

Date: 01/27/11 Analysis: Low SIM Analyst: Y2
 GC Program: Low SIM Column No: 180397 Column Type: ZB5MSI
 Instrument Tune (.U or .CT.): 110625U EM Voltage: 2175
 Calibration File: DF 0127 Curve Date: 01/27/11

IS/SS	Ical/Ccal	LCS/ICV
<u>1754-5</u>	<u>1818-2</u>	

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem3/nt11.i/20110127.b

Time	Filename	LabID	ClientId	DF											
1	1007	df0127.d	DF0127	1	NO ISTDs FOUND										
2	1021	cc0127.d	CC0127	1	5.70	326625	7.85	186528	9.68	316883	12.96	286151	14.69	23693	
3	1108	sf50a.d	SF50A	MW13-012011	1	5.71	330375	7.87	195911	9.68	346332	12.98	281716	14.69	22633
4	1131	sf50ams.d	SF50AMS	MW13-012011	1	5.70	341912	7.85	205762	9.68	357835	12.96	318879	14.68	25338
5	1155	sf50amsd.d	SF50AMSD	MW13-012011	1	5.70	341026	7.85	203765	9.68	354040	12.96	310350	14.68	24735
6	1218	sf50b.d	SF50B	MW06-012011	1	5.70	350144	7.85	210928	9.68	372652	12.96	303372	14.68	23649
7	1242	sf50c.d	SF50C	MW12-012011	1	5.70	321777	7.85	190371	9.68	332177	12.96	270829	14.68	21804
8	1306	sf50d.d	SF50D	MW04-012011	1	5.70	338614	7.85	200630	9.68	347312	12.96	290409	14.68	23452
9	1329	sf50e.d	SF50E	MW17-012011	1	5.70	344494	7.85	206920	9.68	357312	12.96	290587	14.68	23701
10	1353	sf50f.d	SF50F	MW03-012011	1	5.70	344785	7.85	200864	9.68	353776	12.96	290521	14.68	23315
11	1416	sf76a.d	SF76A	MW-15-012111	1	5.70	341239	7.85	204859	9.68	348754	12.96	278363	14.69	23349
12	1440	sf76b.d	SF76B	MW-05-012111	1	5.70	340308	7.85	199238	9.68	347832	12.96	294498	14.68	23755
13	1504	sf76c.d	SF76C	MW-16-012111	1	5.70	355461	7.85	210484	9.68	368465	12.96	305359	14.68	24729
14	1527	sf76d.d	SF76D	MW-02-012111	1	5.70	355932	7.85	211435	9.68	370203	12.96	300271	14.68	24524
15	1551	sf76e.d	SF76E	MW-09-012111	1	5.70	359076	7.85	212482	9.68	367347	12.96	300226	14.68	24099
16	1615	sf76f.d	SF76F	MW-08-012111	1	5.70	360926	7.85	213888	9.68	374881	12.96	302506	14.68	24578
17	1638	sf76g.d	SF76G	MW-01-012111	1	5.70	528295	7.85	235790	9.68	383127	12.96	321480	14.69	26752
18	1702	sf76h.d	SF76H	MW-01-012111	1	5.70	549847	7.85	241841	9.68	392678	12.96	337257	14.69	27690

none

Y2 01/28/11

Maintenance Verification (Identify ICal or CCal that demonstrates the instrument is in control): CC027
 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/nt11.i/20110126.b

ARI Job No.: SF78 Method: lowsim.m Instrument: nt11.i Date: 26-JAN-2011

Time	Filename	LabID	ClientId	DF	Manually Integrated	Compounds
1943	sf78mb.d	SF78MBW1	SF78MBW1	1	1	2-Methylnaphthalene-d10,
2007	sf78sb.d	SF78LCSW1	SF78LCSW1	1	1	NO MANUAL INTEGRATION
2030	sf78sbd.d	SF78LCSDW1	SF78LCSDW1	1	1	NO MANUAL INTEGRATION
1108	sf50a.d	SF50A	MW13-01201	1	1	NO MANUAL INTEGRATION
1131	sf50ams.d	SF50AMS	MW13-01201	1	1	NO MANUAL INTEGRATION
1155	sf50amsd.d	SF50AMSD	MW13-01201	1	1	NO MANUAL INTEGRATION
1218	sf50b.d	SF50B	MW06-01201	1	1	NO MANUAL INTEGRATION
1242	sf50c.d	SF50C	MW12-01201	1	1	NO MANUAL INTEGRATION
1306	sf50d.d	SF50D	MW04-01201	1	1	NO MANUAL INTEGRATION
1329	sf50e.d	SF50E	MW17-01201	1	1	NO MANUAL INTEGRATION
1353	sf50f.d	SF50F	MW03-01201	1	1	NO MANUAL INTEGRATION

01 20 00 00 00

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/nt11.i/20110126.b

ARI Job No.: SF78 Method: lowsim.m Instrument: nt11.i Date: 26-JAN-2011

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1943	sf78mb.d	SF78MBW1	SF78MBW1	1	2-Methylnaphthalene-d10,
2007	sf78sb.d	SF78LCSW1	SF78LCSW1	1	NO MANUAL INTEGRATION
2030	sf78sbd.d	SF78LCSDW1	SF78LCSDW1	1	NO MANUAL INTEGRATION
1416	sf76a.d	SF76A	MW-15-0121	1	NO MANUAL INTEGRATION
1440	sf76b.d	SF76B	MW-05-0121	1	NO MANUAL INTEGRATION
1504	sf76c.d	SF76C	MW-16-0121	1	NO MANUAL INTEGRATION
1527	sf76d.d	SF76D	MW-02-0121	1	NO MANUAL INTEGRATION
1551	sf76e.d	SF76E	MW-09-0121	1	NO MANUAL INTEGRATION
1615	sf76f.d	SF76F	MW-08-0121	1	NO MANUAL INTEGRATION
1638	sf76g.d	SF76G	MW-01-0121	1	Chrysene, Benzo(a)pyrene, Total Benzofluoranthenes,
1702	sf76h.d	SF76H	MW-01-0121	1	Chrysene, Total Benzofluoranthenes,

Q-FLAG SUMMARY FOR DATABATCH - /chem3/nt11.i/20110127.b

Instrument: nt11.i Date: 27-JAN-2011 Method: lowsim.m

INITIAL CAL: 21-JAN-2011

Compound	%RSD or R ²

NO Q-FLAGS	

CONTINUING CAL: 27-JAN-2011

Compound	%D

Chrysene	-23.9

Date : 27-JAN-2011 10:07

Client ID:

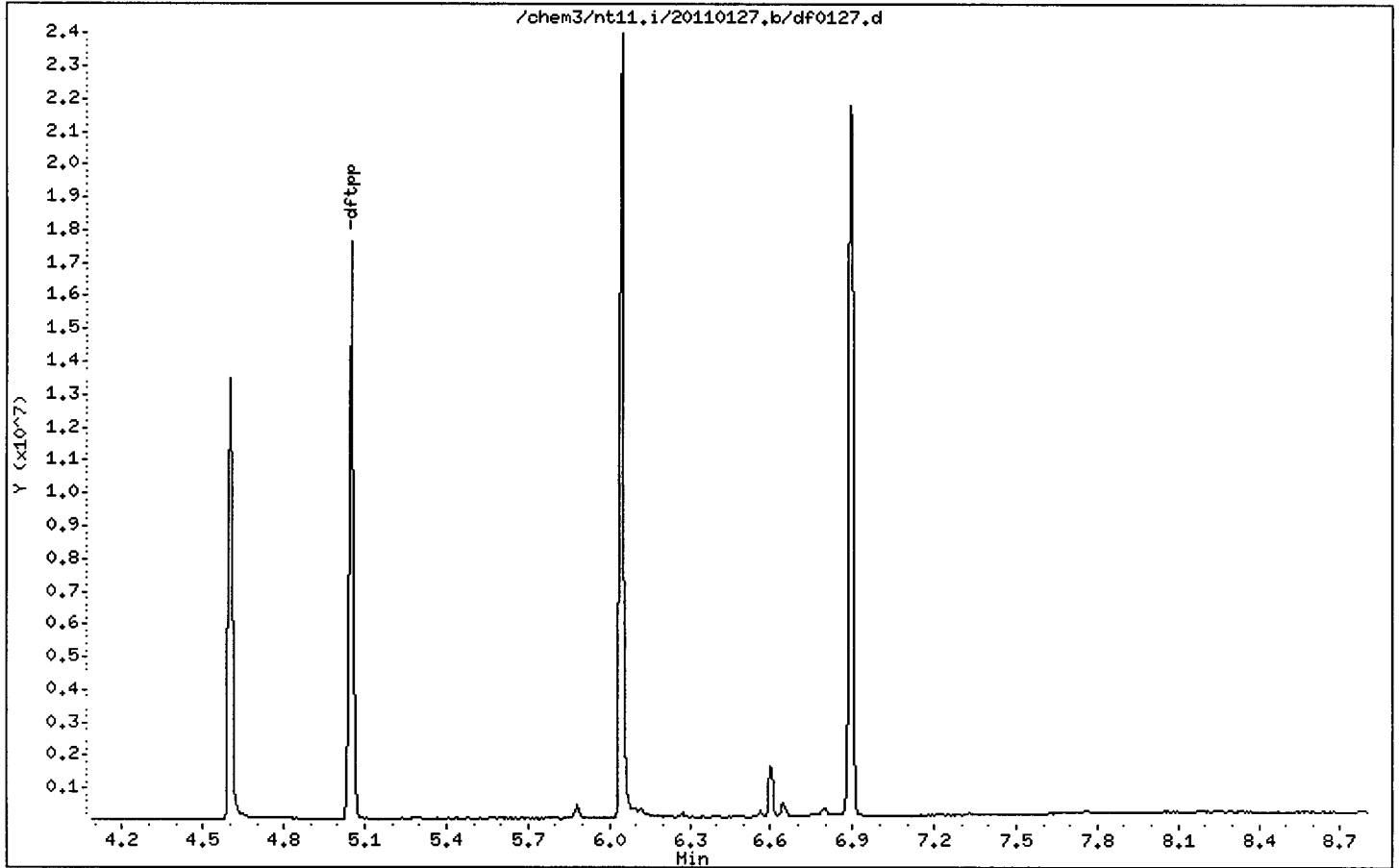
Instrument: nt11.i

Sample Info: DF0127

Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25



Date : 27-JAN-2011 10:07

Client ID:

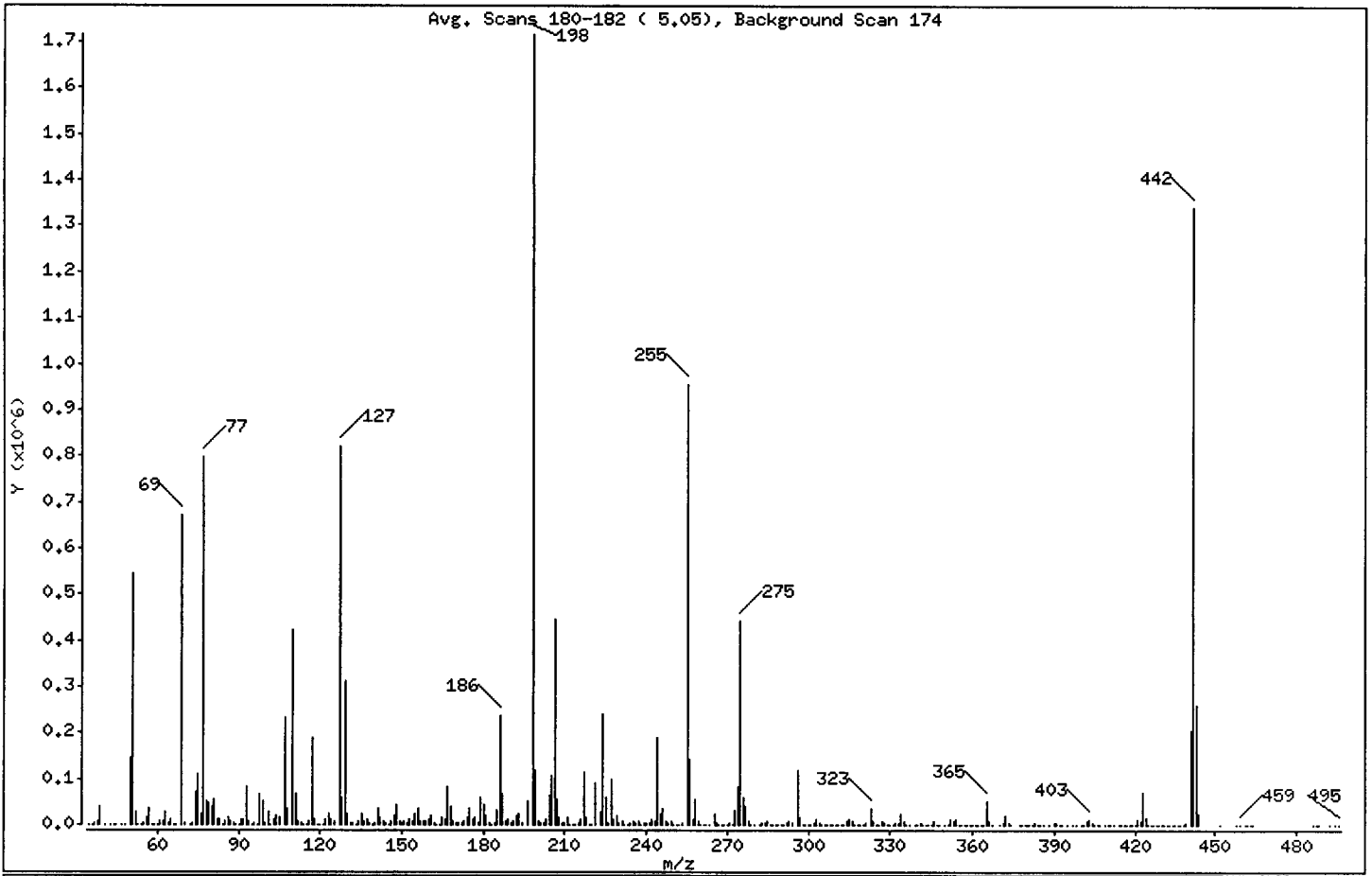
Instrument: nt11.i

Sample Info: DF0127

Operator: yz

Column phase: ZB-5msi
1 dfpp

Column diameter: 0.25



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	31.80
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	39.16
70	Less than 2.00% of mass 69	0.21 (0.54)
127	10.00 - 80.00% of mass 198	47.78
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.86
275	10.00 - 60.00% of mass 198	25.64
365	Greater than 1.00% of mass 198	3.01
441	0.01 - 24.00% of mass 442	11.87 (15.18)
442	50.00 - 200.00% of mass 198	78.19
443	15.00 - 24.00% of mass 442	15.21 (19.45)

Date : 27-JAN-2011 10:07

Client ID:

Instrument: nt11.i

Sample Info: DF0127

Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0127.d

Spectrum: Avg. Scans 180-182 (5.05), Background Scan 174

Location of Maximum: 198.00

Number of points: 394

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	566	143.00	8780	245.00	24376	351.00	371
36.00	501	144.00	2157	246.00	35464	352.00	11278
37.00	2704	145.00	1710	247.00	7488	353.00	7589
38.00	8259	146.00	6170	248.00	2046	354.00	12625
39.00	41056	147.00	19072	249.00	6160	355.00	1778
41.00	1310	148.00	43384	250.00	1580	356.00	15
43.00	152	149.00	8985	251.00	1947	357.00	466
44.00	409	150.00	3094	252.00	1903	358.00	248
45.00	1255	151.00	5931	253.00	4997	359.00	1420
47.00	139	152.00	3166	255.00	956736	360.00	220
48.00	507	153.00	11567	256.00	140928	361.00	351
50.00	146688	154.00	9355	257.00	11252	362.00	290
51.00	545728	155.00	21784	258.00	56152	363.00	472
52.00	27808	156.00	34120	259.00	8334	364.00	210
53.00	737	157.00	7552	260.00	1679	365.00	51712
54.00	399	158.00	6994	261.00	1848	366.00	7374
55.00	2277	159.00	6202	262.00	172	367.00	854
56.00	17176	160.00	12555	263.00	819	370.00	1570
57.00	36360	161.00	18544	265.00	23488	371.00	3545
58.00	1687	162.00	5362	266.00	3994	372.00	20264
59.00	626	163.00	1354	267.00	2	373.00	4519
60.00	751	164.00	1265	268.00	90	374.00	1219
61.00	6168	165.00	13980	269.00	790	377.00	560
62.00	8307	166.00	12491	270.00	1136	378.00	240
63.00	26832	167.00	83272	271.00	2606	379.00	98
64.00	3837	168.00	39072	272.00	1960	380.00	184
65.00	12622	169.00	6387	273.00	30152	381.00	91
66.00	792	170.00	2702	274.00	83304	382.00	135
67.00	1546	171.00	3966	275.00	440064	383.00	4958
69.00	672128	172.00	5598	276.00	59688	384.00	1625
70.00	3635	173.00	9751	277.00	37784	385.00	777
72.00	315	174.00	17648	278.00	6272	386.00	155
73.00	5310	175.00	33952	279.00	1259	388.00	145
74.00	70800	176.00	10600	280.00	280	390.00	2509
75.00	110648	177.00	13969	282.00	1453	391.00	2032

Date : 27-JAN-2011 10:07

Client ID:

Instrument: nt11.i

Sample Info: DF0127

Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

Data File: df0127.d

Spectrum: Avg. Scans 180-182 (5.05), Background Scan 174

Location of Maximum: 198.00

Number of points: 394

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.00	23792	178.00	2609	283.00	5244	392.00	1849
77.00	796672	179.00	58352	284.00	3094	393.00	66
78.00	52848	180.00	42832	285.00	6982	395.00	312
79.00	48128	181.00	19552	286.00	1646	397.00	404
80.00	39504	182.00	3094	287.00	73	398.00	152
81.00	54248	183.00	1364	288.00	586	400.00	87
82.00	12818	184.00	4623	289.00	1615	401.00	1290
83.00	13019	185.00	31344	290.00	1600	402.00	8207
84.00	986	186.00	237120	291.00	659	403.00	10414
85.00	8981	187.00	67552	292.00	2456	404.00	3638
86.00	16014	188.00	7821	293.00	8648	405.00	475
87.00	6514	189.00	13313	294.00	2493	406.00	136
88.00	2553	190.00	2190	296.00	117640	407.00	59
89.00	1020	191.00	5930	297.00	16408	409.00	235
90.00	26	192.00	18544	298.00	1427	410.00	313
91.00	11967	193.00	22904	299.00	456	411.00	137
92.00	13001	194.00	4202	300.00	183	412.00	147
93.00	82160	196.00	49592	301.00	1743	414.00	153
94.00	6466	198.00	1716224	302.00	2154	415.00	403
95.00	1704	199.00	117768	303.00	13353	416.00	241
96.00	4346	200.00	8625	304.00	4313	417.00	81
97.00	1243	201.00	4231	305.00	528	418.00	197
98.00	66944	202.00	3231	306.00	213	419.00	241
99.00	51208	203.00	9904	307.00	160	420.00	188
100.00	4302	204.00	64416	308.00	1668	421.00	10324
101.00	28456	205.00	107752	309.00	1114	422.00	9199
102.00	1766	206.00	447168	310.00	1166	423.00	72912
103.00	10184	207.00	56448	311.00	466	424.00	14481
104.00	18160	208.00	14736	312.00	554	425.00	1145
105.00	16328	209.00	4280	313.00	1359	426.00	649
107.00	234048	210.00	4412	314.00	6153	427.00	552
108.00	36856	211.00	17272	315.00	13504	428.00	188
110.00	422720	212.00	663	316.00	7806	429.00	675
111.00	65832	213.00	1256	317.00	1275	430.00	221
112.00	8477	214.00	802	318.00	161	431.00	250

Date : 27-JAN-2011 10:07

Client ID:

Instrument: nt11.i

Sample Info: DF0127

Operator: yz

Column phase: ZB-5msi

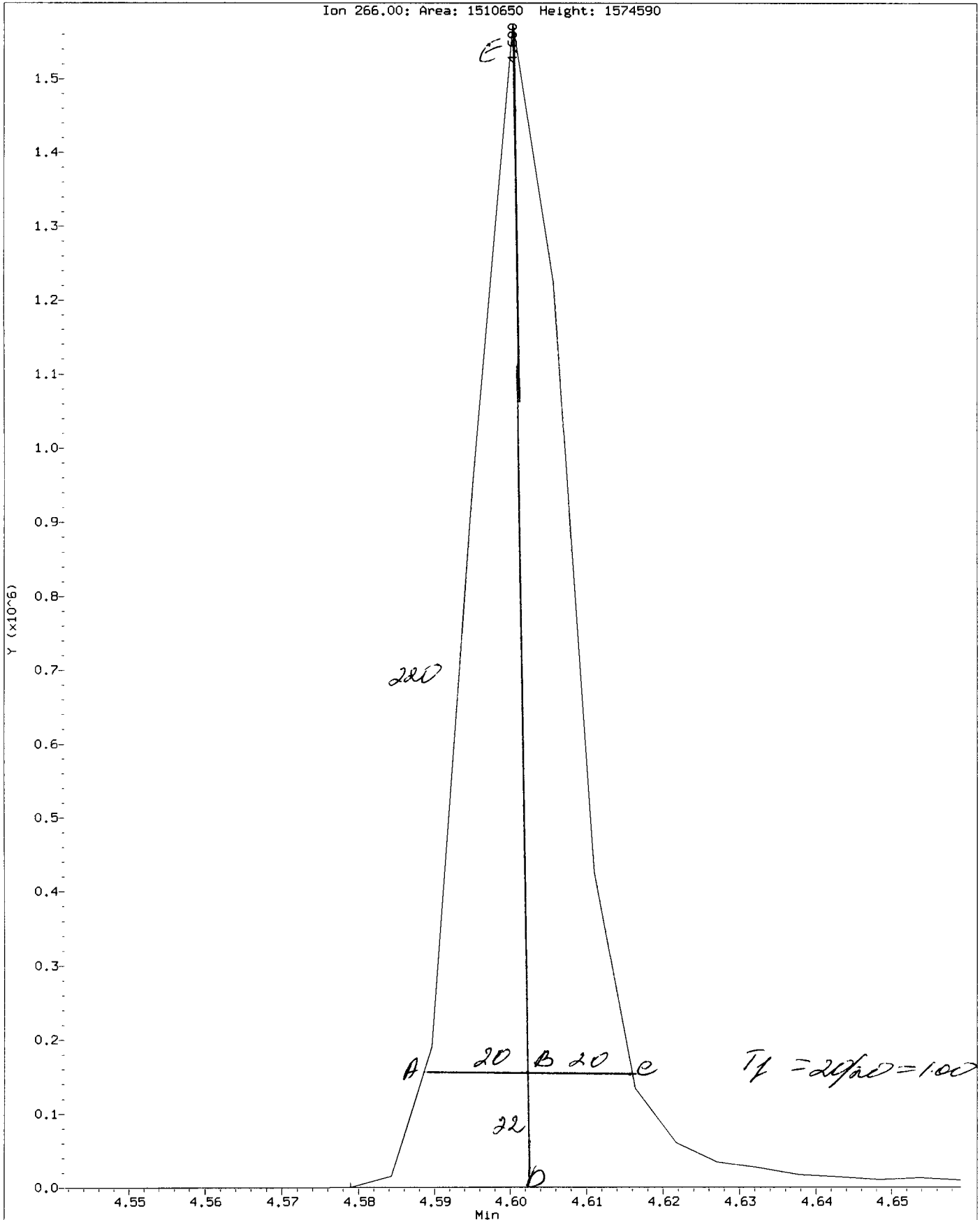
Column diameter: 0,25

Data File: df0127.d
 Spectrum: Avg. Scans 180-182 (5.05), Background Scan 174
 Location of Maximum: 198.00
 Number of points: 394

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	2109	215.00	4612	319.00	293	432.00	354
114.00	1552	216.00	10426	320.00	652	433.00	797
115.00	1412	217.00	113384	321.00	4213	434.00	772
116.00	9545	218.00	16704	323.00	37056	435.00	757
117.00	187584	219.00	1660	324.00	6925	436.00	972
118.00	13227	220.00	794	325.00	1022	437.00	1297
119.00	1291	221.00	90384	326.00	603	438.00	1380
120.00	1912	223.00	27608	327.00	7115	439.00	2390
121.00	1160	224.00	241920	328.00	3586	441.00	203712
122.00	13484	225.00	60520	329.00	860	442.00	1341952
123.00	22184	226.00	2234	330.00	492	443.00	260992
124.00	11037	227.00	97792	331.00	90	444.00	23024
125.00	8559	228.00	12818	332.00	2740	445.00	1095
127.00	820032	229.00	21672	333.00	2291	452.00	109
128.00	60976	230.00	3546	334.00	24592	458.00	83
129.00	309824	231.00	9203	335.00	7053	459.00	174
130.00	25120	232.00	1682	336.00	897	461.00	76
131.00	5276	233.00	1712	337.00	439	462.00	51
132.00	2759	234.00	5830	339.00	1010	463.00	133
133.00	1254	235.00	8084	340.00	895	464.00	76
134.00	8435	236.00	4660	341.00	4011	477.00	88
135.00	23768	237.00	8388	342.00	894	486.00	95
136.00	9592	238.00	1033	343.00	112	487.00	87
137.00	11677	239.00	4701	344.00	18	488.00	52
138.00	2212	240.00	3098	345.00	11	492.00	83
139.00	1703	241.00	5811	346.00	7443	494.00	78
140.00	4151	242.00	12987	347.00	1173	495.00	73
141.00	36408	243.00	8408	348.00	629		
142.00	15569	244.00	188544	350.00	288		

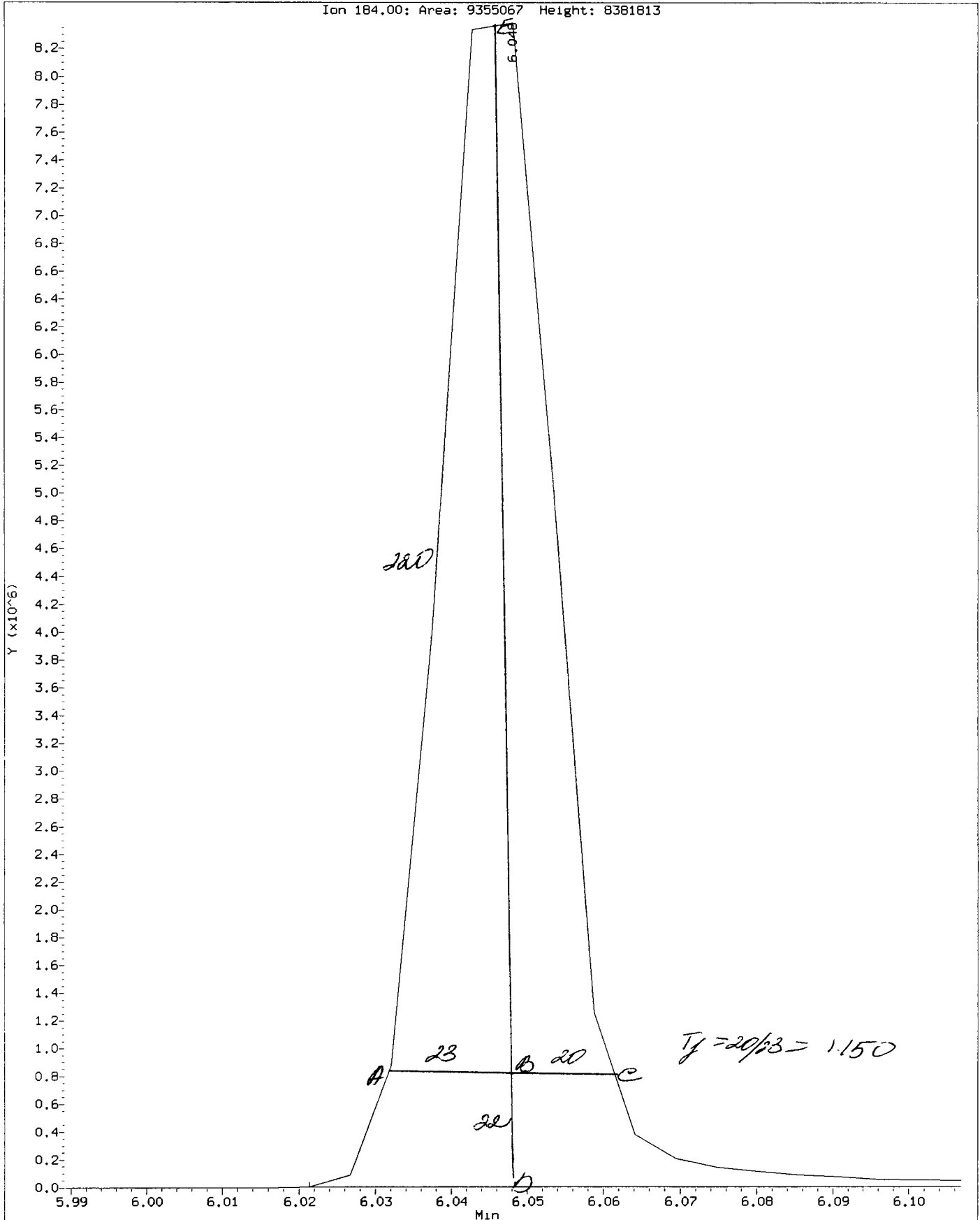
Data File: /chem3/nt11.1/20110127.b/ddt.b/d40127.d
Injection Date: 27-JAN-2011 10:07
Instrument: nt11.1
Client Sample ID:

Compound: Pentachlorophenol
CAS Number: 87-86-5



Data File: /chem3/nt11.1/20110127.b/ddt.b/df0127.d
Injection Date: 27-JAN-2011 10:07
Instrument: nt11.1
Client Sample ID:

Compound: Benzidine
CAS Number:



Analytical Resources Inc.
ABN by sw846 8270C
DDT Breakdown Report

Data file: /chem3/nt11.i/20110127.b/ddt.b/df0127.d ARI ID: DF0127
Method: /chem3/nt11.i/20110127.b/ddt.b/sw846ddt.m Misc:
Analysis Date: 27-JAN-2011 10:07 Instrument: nt11.i

COMPOUND	RT	AREA
Pentachlorophenol	4.600	1510650
Benzidine	6.048	9355067
4,4'-DDE	6.267	13622
4,4'-DDD	6.604	374762
4,4'-DDT	6.898	4628636

$$\text{DDT Percent Breakdown} = \frac{(\text{DDE Area} + \text{DDD Area}) * 100}{(\text{DDE Area} + \text{DDD Area} + \text{DDT Area})}$$

$$\text{DDT Percent Breakdown} = \frac{(13622 + 374762) * 100}{(13622 + 374762 + 4628636)}$$

DDT Percent Breakdown = 7.7 %

Analytical Resources, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: nt11.i Injection Date: 27-JAN-2011 10:21
 Lab File ID: cc0127.d Init. Cal. Date(s): 21-JAN-2011 21-JAN-2011
 Analysis Type: Init. Cal. Times: 15:30 17:28
 Lab Sample ID: CC0127 Quant Type: ISTD
 Method: /chem3/nt11.i/20110127.b/lowsim.m

COMPOUND	RF250		CCAL	MIN	MAX		CURVE TYPE
	RRF / AMOUNT	RF250	RRF250	RRF	%D / %DRIFT	%D / %DRIFT	
5 Naphthalene	0.80950	0.79684	0.79684	0.010	-1.56412	20.00000	Averaged
\$ 6 2-Methylnaphthalene-d10	0.47965	0.45715	0.45715	0.010	-4.69098	20.00000	Averaged
7 2-Methylnaphthalene	0.46395	0.50029	0.50029	0.010	7.83287	20.00000	Averaged
8 1-Methylnaphthalene	0.46892	0.49204	0.49204	0.010	4.93021	20.00000	Averaged
10 Acenaphthylene	1.29634	1.29757	1.29757	0.010	0.09513	20.00000	Averaged
12 Acenaphthene	0.88620	0.84946	0.84946	0.010	-4.14559	20.00000	Averaged
14 Dibenzofuran	1.31298	1.19023	1.19023	0.010	-9.34932	20.00000	Averaged
15 Fluorene	0.88185	0.92320	0.92320	0.010	4.68851	20.00000	Averaged
19 Phenanthrene	0.80708	0.82956	0.82956	0.010	2.78515	20.00000	Averaged
20 Anthracene	0.77843	0.81947	0.81947	0.010	5.27248	20.00000	Averaged
24 Fluoranthene	0.76146	0.85157	0.85157	0.010	11.83362	20.00000	Averaged
25 Pyrene	1.23843	1.01262	1.01262	0.010	-18.23332	20.00000	Averaged
28 Benzo(a)anthracene	0.80620	0.84012	0.84012	0.010	4.20760	20.00000	Averaged
30 Chrysene	1.17512	0.89441	0.89441	0.010	-23.88708	20.00000	Averaged <-
43 Total Benzofluoranthenes	1.14310	1.04544	1.04544	0.010	-8.54373	20.00000	Averaged
34 Benzo(a)pyrene	227	250	0.87485	0.010	-9.25781	20.00000	Quadratic
37 Indeno(1,2,3-cd)pyrene	1.13518	1.04930	1.04930	0.010	-7.56504	20.00000	Averaged
\$ 36 Dibenzo(a,h)anthracene-d14	0.70601	0.69459	0.69459	0.010	-1.61798	20.00000	Averaged
38 Dibenzo(a,h)anthracene	0.84063	0.80973	0.80973	0.010	-3.67550	20.00000	Averaged
39 Benzo(g,h,i)perylene	1.06195	0.91432	0.91432	0.010	-13.90240	20.00000	Averaged

Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt11.i/20110127.b/cc0127.d
 Lab Smp Id: CC0127
 Inj Date : 27-JAN-2011 10:21
 Operator : yz
 Smp Info : CC0127
 Misc Info :
 Comment :
 Method : /chem3/nt11.i/20110127.b/lowsim.m
 Meth Date : 28-Jan-2011 09:35 yev
 Cal Date : 21-JAN-2011 17:28
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

YZ 01/28/11
 Inst ID: nt11.i
 Quant Type: ISTD
 Cal File: ic0121f.d
 Continuing Calibration Sample
 Compound Sublist: pnalmn.sub

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/mL)	ON-COL (ng/mL)
* 4 Naphthalene-d8	136	5.697	5.697	(1.000)	326625	200.000	
5 Naphthalene	128	5.720	5.720	(1.004)	325337	250.000	246
\$ 6 2-Methylnaphthalene-d10	152	6.526	6.526	(1.145)	186644	250.000	238
7 2-Methylnaphthalene	142	6.560	6.560	(1.151)	204258	250.000	270
8 1-Methylnaphthalene	142	6.687	6.687	(1.174)	200889	250.000	262
10 Acenaphthylene	152	7.666	7.666	(0.976)	302543	250.000	250
* 11 Acenaphthene-d10	164	7.854	7.854	(1.000)	186528	200.000	
12 Acenaphthene	153	7.894	7.894	(1.005)	198061	250.000	240
14 Dibenzofuran	168	8.095	8.095	(1.031)	277514	250.000	227
15 Fluorene	166	8.511	8.511	(1.084)	215254	250.000	262
* 18 Phenanthrene-d10	188	9.677	9.677	(1.000)	316883	200.000	
19 Phenanthrene	178	9.704	9.704	(1.003)	328591	250.000	257
20 Anthracene	178	9.758	9.758	(1.008)	324595	250.000	263
24 Fluoranthene	202	11.179	11.179	(1.155)	337309	250.000	280
25 Pyrene	202	11.461	11.461	(0.884)	362204	250.000	204
28 Benzo(a)anthracene	228	12.949	12.949	(0.999)	300502	250.000	261
* 29 Chrysene-d12	240	12.963	12.963	(1.000)	286151	200.000	
30 Chrysene	228	12.989	12.989	(1.002)	319922	250.000	190
43 Total Benzofluoranthenes	252	14.239	14.239	(0.969)	619257	500.000	457
34 Benzo(a)pyrene	252	14.608	14.608	(0.994)	259105	250.000	227
* 35 Perylene-d12	264	14.688	14.688	(1.000)	236936	200.000	
37 Indeno(1,2,3-cd)pyrene	276	16.281	16.281	(1.108)	310772	250.000	231
\$ 36 Dibenzo(a,h)anthracene-d14	292	16.241	16.241	(1.106)	205718	250.000	246
38 Dibenzo(a,h)anthracene	278	16.295	16.295	(1.109)	239819	250.000	241
39 Benzo(g,h,i)perylene	276	16.751	16.751	(1.140)	270794	250.000	215

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: cc0127.d
 Lab Smp Id: CC0127
 Analysis Type: SV
 Quant Type: ISTD
 Operator: yz
 Method File: /chem3/nt11.i/20110127.b/lowsim.m
 Misc Info:

Calibration Date: 27-JAN-2011
 Calibration Time: 10:21
 Level:
 Sample Type:

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	326625	-4.65
11 Acenaphthene-d10	185015	92508	370030	186528	0.82
18 Phenanthrene-d10	320966	160483	641932	316883	-1.27
29 Chrysene-d12	212759	106380	425518	286151	34.50
35 Perylene-d12	156605	78302	313210	236936	51.30

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.70	5.20	6.20	5.70	0.00
11 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.00
18 Phenanthrene-d10	9.68	9.18	10.18	9.68	0.00
29 Chrysene-d12	12.96	12.46	13.46	12.96	0.00
35 Perylene-d12	14.69	14.19	15.19	14.69	0.00

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

Data File: /chem3/nt11.i/20110127.b/cc0127.d
Date : 27-JAN-2011 10:21

Client ID:

Sample Info: CC0127

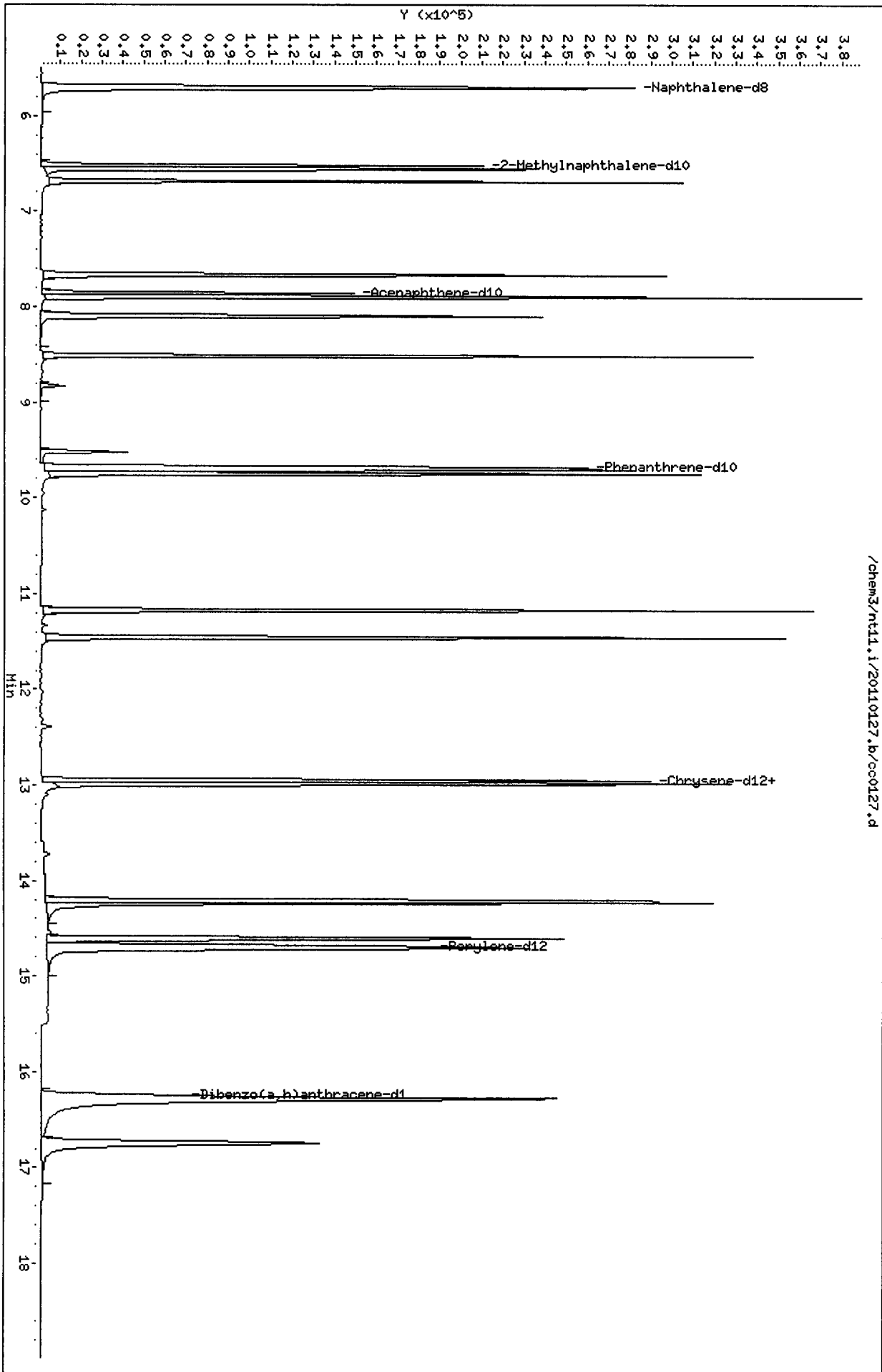
Column phase: ZB-5ms1

Instrument: nt11.i

Operator: yz

Column diameter: 0.25

/chem3/nt11.i/20110127.b/cc0127.d



CO-ELUTION SUMMARY FOR FILE - cc0127.d

Lab ID: CC0127, Method: lowsim.m, Instrument: nt11.i, Date: 27-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt11.i/20110127.b/sf50ams.d
 Lab Smp Id: SF50AMS Client Smp ID: MW13-012011 MS
 Inj Date : 27-JAN-2011 11:31
 Operator : yz Inst ID: nt11.i
 Smp Info : SF50AMS
 Misc Info : 11-1198
 Comment :
 Method : /chem3/nt11.i/20110127.b/lowsim.m
 Meth Date : 28-Jan-2011 09:12 yev Quant Type: ISTD
 Cal Date : 21-JAN-2011 17:28 Cal File: ic0121f.d
 Als bottle: 2 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalmn.sub
 Target Version: 3.50

yz 01/28/11

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/mL)	FINAL (ug/L)
* 4 Naphthalene-d8	====	136	5.697	5.697	(1.000)	341912	200.000	
5 Naphthalene		128	5.720	5.720	(1.004)	304118	219.755	220
\$ 6 2-Methylnaphthalene-d10		152	6.526	6.526	(1.145)	177226	216.134	216
7 2-Methylnaphthalene		142	6.560	6.560	(1.151)	190213	239.822	240
8 1-Methylnaphthalene		142	6.687	6.687	(1.174)	187004	233.276	233
10 Acenaphthylene		152	7.666	7.666	(0.976)	301857	226.332	226
* 11 Acenaphthene-d10		164	7.854	7.854	(1.000)	205762	200.000	
12 Acenaphthene		153	7.894	7.894	(1.005)	201162	220.638	221
14 Dibenzofuran		168	8.095	8.095	(1.031)	287093	212.534	213
15 Fluorene		166	8.511	8.511	(1.084)	234661	258.648	259
* 18 Phenanthrene-d10		188	9.677	9.677	(1.000)	357835	200.000	
19 Phenanthrene		178	9.704	9.704	(1.003)	382530	264.909	265
20 Anthracene		178	9.758	9.758	(1.008)	360046	258.517	259
24 Fluoranthene		202	11.179	11.179	(1.155)	457246	335.623	336
25 Pyrene		202	11.461	11.461	(0.884)	468135	237.084	237
28 Benzo(a)anthracene		228	12.949	12.949	(0.999)	388271	302.061	302

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/mL)	FINAL (ug/L)
-----	====	==	=====	=====	=====	=====	=====
* 29 Chrysene-d12	240	12.963	12.963	(1.000)	318879	200.000	
30 Chrysene	228	12.990	12.989	(1.002)	417971	223.084	223
43 Total Benzofluoranthenes	252	14.239	14.239	(0.970)	765443	528.529	529
34 Benzo(a)pyrene	252	14.608	14.608	(0.995)	290366	237.388	237
* 35 Perylene-d12	264	14.677	14.688	(1.000)	253389	200.000	
37 Indeno(1,2,3-cd)pyrene	276	16.281	16.281	(1.109)	354376	246.401	246
\$ 36 Dibenzo(a,h)anthracene-d14	292	16.241	16.241	(1.107)	242787	271.426	271
38 Dibenzo(a,h)anthracene	278	16.295	16.295	(1.110)	275243	258.436	258
39 Benzo(g,h,i)perylene	276	16.751	16.751	(1.141)	303722	225.742	226

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: sf50ams.d
 Lab Smp Id: SF50AMS
 Analysis Type: SV
 Quant Type: ISTD
 Operator: yz
 Method File: /chem3/nt11.i/20110127.b/lowsim.m
 Misc Info: 11-1198

Calibration Date: 27-JAN-2011
 Calibration Time: 10:21
 Client Smp ID: MW13-012011 MS
 Level: LOW
 Sample Type: Water

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	341912	-0.19
11 Acenaphthene-d10	185015	92508	370030	205762	11.21
18 Phenanthrene-d10	320966	160483	641932	357835	11.49
29 Chrysene-d12	212759	106380	425518	318879	49.88
35 Perylene-d12	156605	78302	313210	253389	61.80

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.70	5.20	6.20	5.70	0.00
11 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.00
18 Phenanthrene-d10	9.68	9.18	10.18	9.68	0.00
29 Chrysene-d12	12.96	12.46	13.46	12.96	0.00
35 Perylene-d12	14.69	14.19	15.19	14.68	-0.08

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

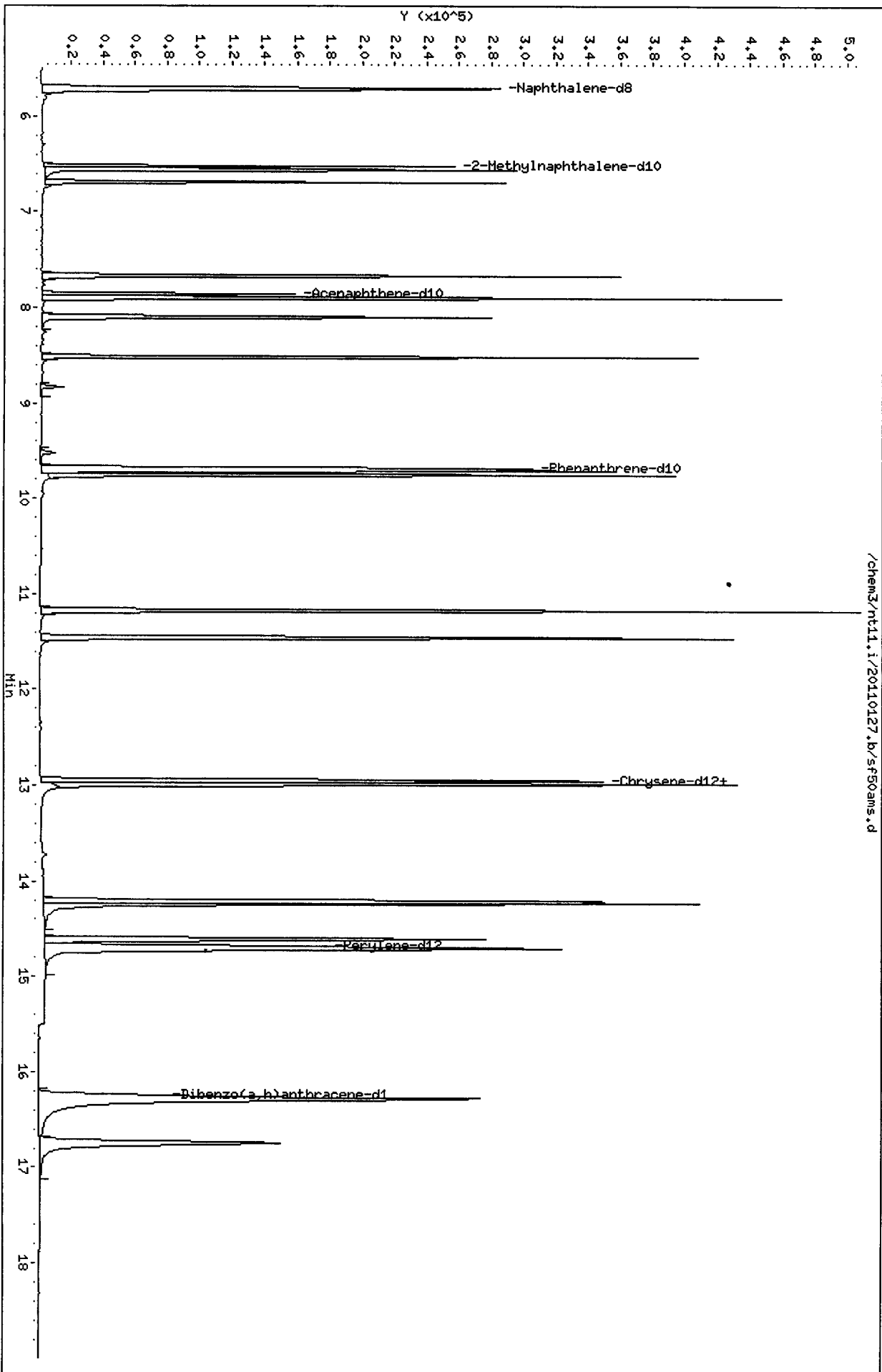
Analytical Resources, Inc.

RECOVERY REPORT

Client Name: FSI Client SDG: SF50
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: SF50AMS Client Smp ID: MW13-012011 MS
 Level: LOW Operator: yz
 Data Type: MS DATA SampleType: MS
 SpikeList File: waterlcs.spk Quant Type: ISTD
 Sublist File: pnalnm.sub
 Method File: /chem3/nt11.i/20110127.b/lowsim.m
 Misc Info: 11-1198

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
5 Naphthalene	300	220	73.25	41-101
7 2-Methylnaphthalen	300	240	79.94	47-100
8 1-Methylnaphthalen	300	233	77.76	30-160
10 Acenaphthylene	300	226	75.44	35-100
12 Acenaphthene	300	221	73.55	43-104
14 Dibenzofuran	300	213	70.84	37-100
15 Fluorene	300	259	86.22	51-103
19 Phenanthrene	300	265	88.30	55-109
20 Anthracene	300	259	86.17	30-101
24 Fluoranthene	300	336	111.87	49-123
25 Pyrene	300	237	79.03	48-120
28 Benzo (a) anthracene	300	302	100.69	43-113
30 Chrysene	300	223	74.36	59-112
43 Total Benzofluoran	600	529	88.09	30-160
34 Benzo (a) pyrene	300	237	79.13	10-100
37 Indeno (1,2,3-cd) py	300	246	82.13	43-112
38 Dibenzo (a,h) anthra	300	258	86.15	42-114
39 Benzo (g,h,i) peryle	300	226	75.25	31-118

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	300	216	72.04	31-109
\$ 36 Dibenzo (a,h) anthra	300	271	90.48	10-133



SF26 : 00020

CO-ELUTION SUMMARY FOR FILE - sf50ams.d

Lab ID: SF50AMS, Method: lowsim.m, Instrument: nt11.i, Date: 27-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

YZ 01/28/11

Data file : /chem3/nt11.i/20110127.b/sf50a.d
 Lab Smp Id: SF50A Client Smp ID: MW13-012011
 Inj Date : 27-JAN-2011 11:08
 Operator : yz Inst ID: nt11.i
 Smp Info : SF50A
 Misc Info : 11-1198
 Comment :
 Method : /chem3/nt11.i/20110127.b/lowsim.m
 Meth Date : 28-Jan-2011 09:12 yev Quant Type: ISTD
 Cal Date : 21-JAN-2011 17:28 Cal File: ic0121f.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pna1mn.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
* 4 Naphthalene-d8	136	5.709	5.697	(1.000)	330375	200.000	
5 Naphthalene	128	5.732	5.720	(1.004)	13843	10.3525	10.4
\$ 6 2-Methylnaphthalene-d10	152	6.526	6.526	(1.143)	178160	224.860	225
7 2-Methylnaphthalene	142				Compound Not Detected.		
8 1-Methylnaphthalene	142				Compound Not Detected.		
10 Acenaphthylene	152				Compound Not Detected.		
* 11 Acenaphthene-d10	164	7.867	7.854	(1.000)	195911	200.000	
12 Acenaphthene	153				Compound Not Detected.		
14 Dibenzofuran	168				Compound Not Detected.		
15 Fluorene	166				Compound Not Detected.		
* 18 Phenanthrene-d10	188	9.677	9.677	(1.000)	346332	200.000	
19 Phenanthrene	178				Compound Not Detected.		
20 Anthracene	178				Compound Not Detected.		
24 Fluoranthene	202				Compound Not Detected.		
25 Pyrene	202				Compound Not Detected.		
28 Benzo (a) anthracene	228				Compound Not Detected.		

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
* 29 Chrysene-d12	240	12.976	12.963	(1.000)	281716	200.000	
30 Chrysene	228				Compound Not Detected.		
43 Total Benzofluoranthenes	252				Compound Not Detected.		
34 Benzo(a)pyrene	252				Compound Not Detected.		
* 35 Perylene-d12	264	14.688	14.688	(1.000)	226330	200.000	
37 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
\$ 36 Dibenzo(a,h)anthracene-d14	292	16.255	16.241	(1.107)	194895	243.935	244
38 Dibenzo(a,h)anthracene	278				Compound Not Detected.		
39 Benzo(g,h,i)perylene	276				Compound Not Detected.		

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i	Calibration Date: 27-JAN-2011
Lab File ID: sf50a.d	Calibration Time: 10:21
Lab Smp Id: SF50A	Client Smp ID: MW13-012011
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: Water
Operator: yz	
Method File: /chem3/nt11.i/20110127.b/lowsim.m	
Misc Info: 11-1198	

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	330375	-3.55
11 Acenaphthene-d10	185015	92508	370030	195911	5.89
18 Phenanthrene-d10	320966	160483	641932	346332	7.90
29 Chrysene-d12	212759	106380	425518	281716	32.41
35 Perylene-d12	156605	78302	313210	226330	44.52

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.70	5.20	6.20	5.71	0.20
11 Acenaphthene-d10	7.85	7.35	8.35	7.87	0.17
18 Phenanthrene-d10	9.68	9.18	10.18	9.68	0.00
29 Chrysene-d12	12.96	12.46	13.46	12.98	0.10
35 Perylene-d12	14.69	14.19	15.19	14.69	0.00

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

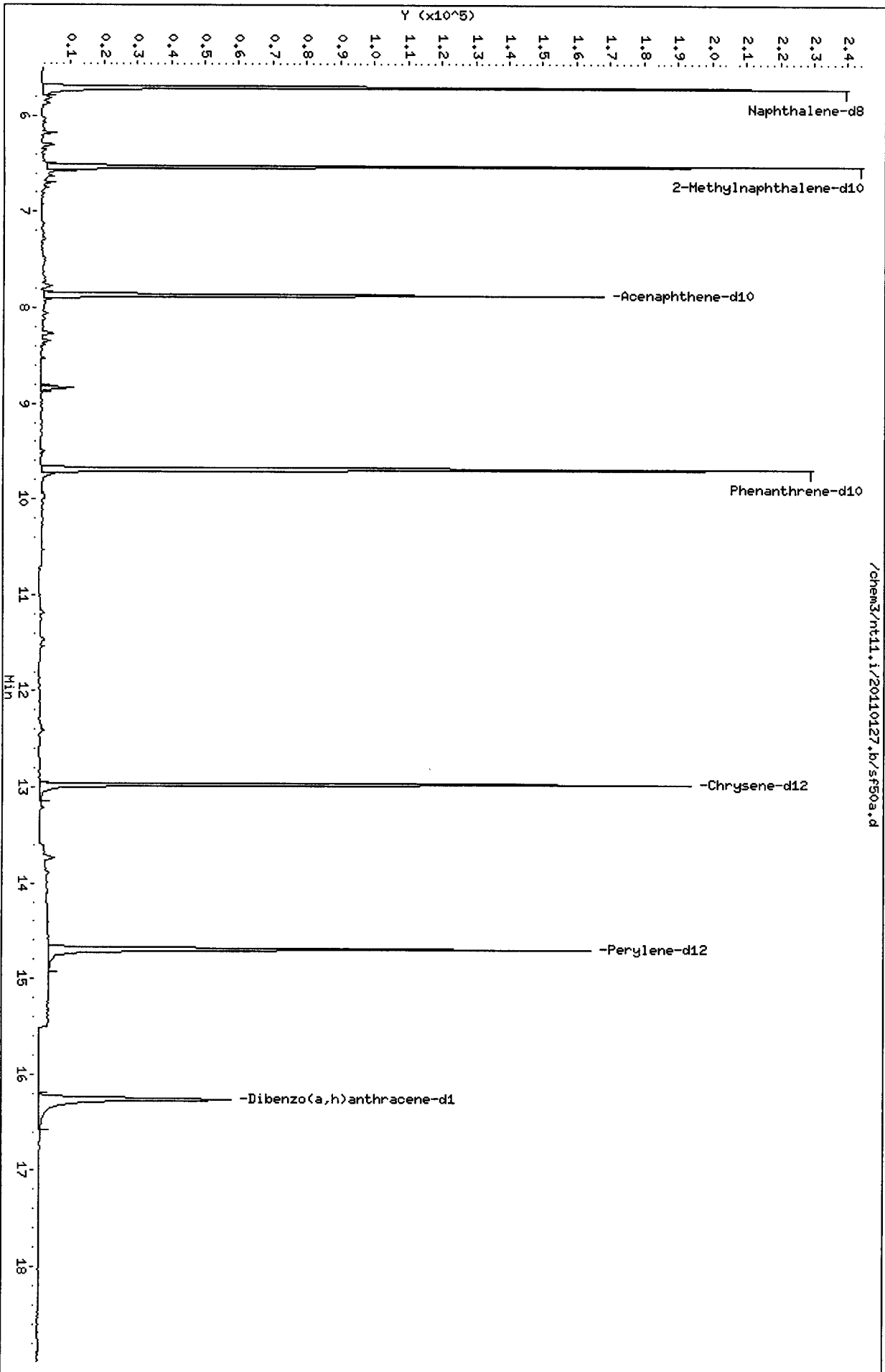
Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd/Snider	Client SDG: SF50
Sample Matrix: LIQUID	Fraction: SV
Lab Smp Id: SF50A	Client Smp ID: MW13-012011
Level: LOW	Operator: yz
Data Type: MS DATA	SampleType: SAMPLE
SpikeList File: waterlcs.spk	Quant Type: ISTD
Sublist File: pnalnm.sub	
Method File: /chem3/nt11.i/20110127.b/lowsim.m	
Misc Info: 11-1198	

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	300	225	74.95	31-109
\$ 36 Dibenzo(a,h) anthra	300	244	81.31	10-133

/chem3/nt11.i/20110127.b/sf50a.d



CO-ELUTION SUMMARY FOR FILE - sf50a.d

Lab ID: SF50A, Method: lowsim.m, Instrument: nt11.i, Date: 27-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

yz 01/28/11

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt11.i/20110127.b/sf50amsd.d
 Lab Smp Id: SF50AMSD Client Smp ID: MW13-012011 MSD
 Inj Date : 27-JAN-2011 11:55
 Operator : yz Inst ID: nt11.i
 Smp Info : SF50AMSD
 Misc Info : 11-1198
 Comment :
 Method : /chem3/nt11.i/20110127.b/lowsim.m
 Meth Date : 28-Jan-2011 09:12 yev Quant Type: ISTD
 Cal Date : 21-JAN-2011 17:28 Cal File: ic0121f.d
 Als bottle: 3 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalmn.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
* 4 Naphthalene-d8	136	5.697	5.697	(1.000)	341026	200.000	
5 Naphthalene	128	5.720	5.720	(1.004)	323849	234.620	235
\$ 6 2-Methylnaphthalene-d10	152	6.526	6.526	(1.145)	189507	231.711	232
7 2-Methylnaphthalene	142	6.560	6.560	(1.151)	202744	256.284	256
8 1-Methylnaphthalene	142	6.687	6.687	(1.174)	201366	251.844	252
10 Acenaphthylene	152	7.666	7.666	(0.976)	322538	244.209	244
* 11 Acenaphthene-d10	164	7.854	7.854	(1.000)	203765	200.000	
12 Acenaphthene	153	7.894	7.894	(1.005)	213929	236.940	237
14 Dibenzofuran	168	8.095	8.095	(1.031)	308379	230.530	231
15 Fluorene	166	8.511	8.511	(1.084)	251605	280.043	280
* 18 Phenanthrene-d10	188	9.677	9.677	(1.000)	354040	200.000	
19 Phenanthrene	178	9.704	9.704	(1.003)	396894	277.802	278
20 Anthracene	178	9.758	9.758	(1.008)	378639	274.781	275
24 Fluoranthene	202	11.179	11.179	(1.155)	458524	340.169	340
25 Pyrene	202	11.461	11.461	(0.884)	474862	247.101	247
28 Benzo (a) anthracene	228	12.949	12.949	(0.999)	406322	324.792	325

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/mL)	FINAL (ug/L)
*****	====	==	*****	*****	*****	*****	*****
* 29 Chrysene-d12	240	12.963	12.963	(1.000)	310350	200.000	
30 Chrysene	228	12.989	12.989	(1.002)	423730	232.374	232
43 Total Benzofluoranthenes	252	14.239	14.239	(0.970)	775515	548.553	549
34 Benzo(a)pyrene	252	14.608	14.608	(0.995)	297364	248.672	249
* 35 Perylene-d12	264	14.677	14.688	(1.000)	247352	200.000	
37 Indeno(1,2,3-cd)pyrene	276	16.281	16.281	(1.109)	362005	257.849	258
\$ 36 Dibenzo(a,h)anthracene-d14	292	16.241	16.241	(1.107)	249398	285.623	286
38 Dibenzo(a,h)anthracene	278	16.295	16.295	(1.110)	281929	271.175	271
39 Benzo(g,h,i)perylene	276	16.751	16.751	(1.141)	311081	236.855	237

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: sf50amsd.d
 Lab Smp Id: SF50AMSD
 Analysis Type: SV
 Quant Type: ISTD
 Operator: yz
 Method File: /chem3/nt11.i/20110127.b/lowsim.m
 Misc Info: 11-1198

Calibration Date: 27-JAN-2011
 Calibration Time: 10:21
 Client Smp ID: MW13-012011 MSD
 Level: LOW
 Sample Type: Water

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	341026	-0.44
11 Acenaphthene-d10	185015	92508	370030	203765	10.13
18 Phenanthrene-d10	320966	160483	641932	354040	10.30
29 Chrysene-d12	212759	106380	425518	310350	45.87
35 Perylene-d12	156605	78302	313210	247352	57.95

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.70	5.20	6.20	5.70	0.00
11 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.00
18 Phenanthrene-d10	9.68	9.18	10.18	9.68	0.00
29 Chrysene-d12	12.96	12.46	13.46	12.96	0.00
35 Perylene-d12	14.69	14.19	15.19	14.68	-0.08

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

Analytical Resources, Inc.

RECOVERY REPORT

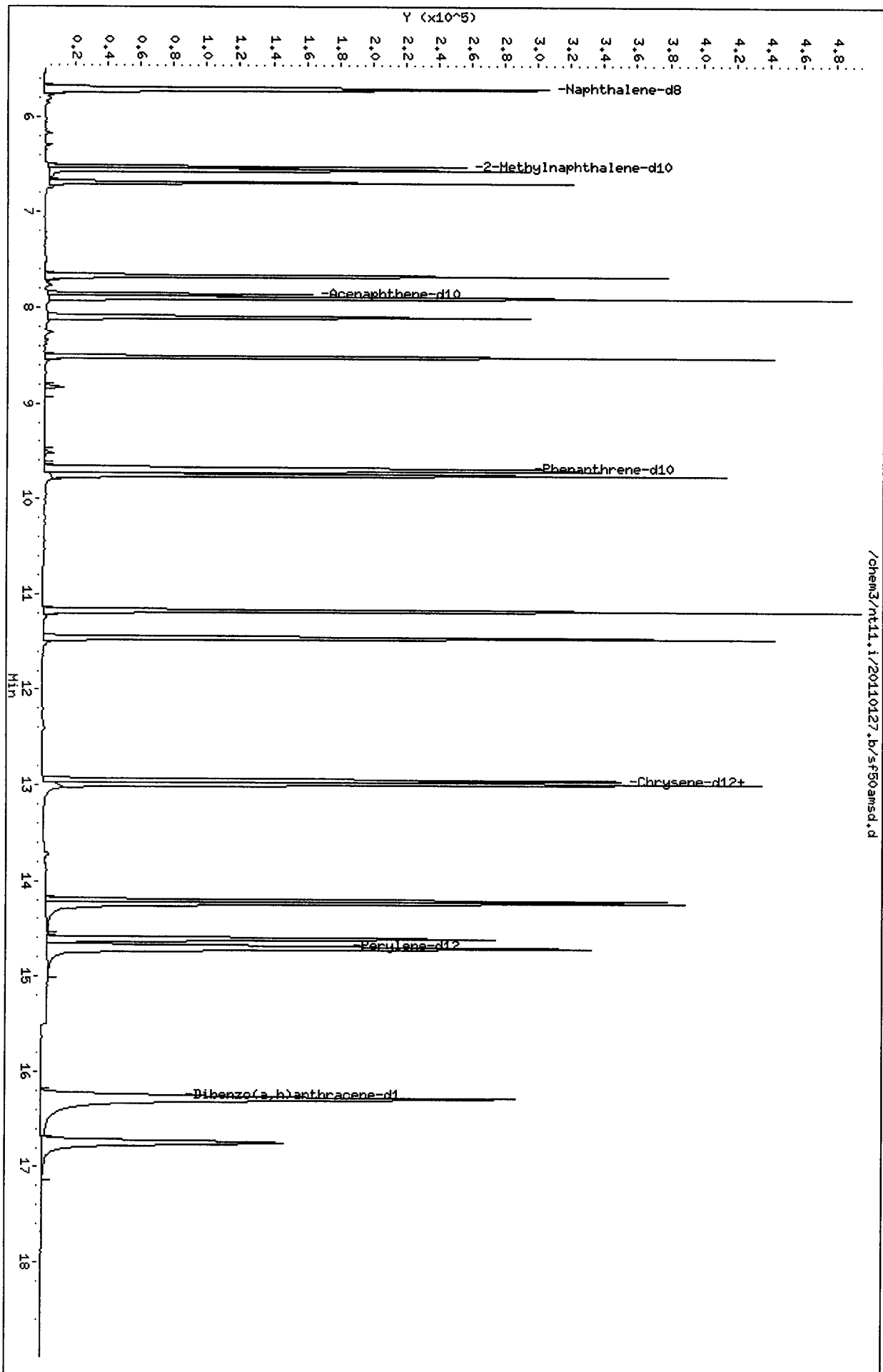
Client Name: FSI Client SDG: SF50
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: SF50AMSD Client Smp ID: MW13-012011 MSD
 Level: LOW Operator: yz
 Data Type: MS DATA SampleType: MS
 SpikeList File: waterlcs.spk Quant Type: ISTD
 Sublist File: pnalnm.sub
 Method File: /chem3/nt11.i/20110127.b/lowsim.m
 Misc Info: 11-1198

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
5 Naphthalene	300	235	78.21	41-101
7 2-Methylnaphthalen	300	256	85.43	47-100
8 1-Methylnaphthalen	300	252	83.95	30-160
10 Acenaphthylene	300	244	81.40	35-100
12 Acenaphthene	300	237	78.98	43-104
14 Dibenzofuran	300	231	76.84	37-100
15 Fluorene	300	280	93.35	51-103
19 Phenanthrene	300	278	92.60	55-109
20 Anthracene	300	275	91.59	30-101
24 Fluoranthene	300	340	113.39	49-123
25 Pyrene	300	247	82.37	48-120
28 Benzo (a) anthracene	300	325	108.26	43-113
30 Chrysene	300	232	77.46	59-112
43 Total Benzofluoran	600	549	91.43	30-160
34 Benzo (a) pyrene	300	249	82.89	10-100
37 Indeno (1,2,3-cd) py	300	258	85.95	43-112
38 Dibenzo (a,h) anthra	300	271	90.39	42-114
39 Benzo (g,h,i) peryle	300	237	78.95	31-118

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	300	232	77.24	31-109
\$ 36 Dibenzo (a,h) anthra	300	286	95.21	10-133

Data File: /chem3/rt11.i/20110127.b/sf50amsd.d
Date : 27-JAN-2011 11:55
Client ID: HM13-012011 HSD
Sample Info: SF50AMSD
Volume Injected (uL): 2.0
Column phase: ZB-5msi

Instrument: rt11.i
Operator: yz
Column diameter: 0.25



CO-ELUTION SUMMARY FOR FILE - sf50amsd.d

Lab ID: SF50AMSD, Method: lowsims.m, Instrument: nt11.i, Date: 27-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

YZ 01/28/11

Data file : /chem3/nt11.i/20110127.b/sf50b.d
 Lab Smp Id: SF50B Client Smp ID: MW06-012011
 Inj Date : 27-JAN-2011 12:18
 Operator : yz Inst ID: nt11.i
 Smp Info : SF50B
 Misc Info : 11-1199
 Comment :
 Method : /chem3/nt11.i/20110127.b/lowsim.m
 Meth Date : 28-Jan-2011 09:12 yev Quant Type: ISTD
 Cal Date : 21-JAN-2011 17:28 Cal File: ic0121f.d
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalmn.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
* 4 Naphthalene-d8	136	5.697	5.697	(1.000)	350144	200.000	
5 Naphthalene	128	5.720	5.720	(1.004)	9806	6.91920	6.92
\$ 6 2-Methylnaphthalene-d10	152	6.526	6.526	(1.145)	198700	236.625	237
7 2-Methylnaphthalene	142	6.526	6.560	(1.145)	14400	17.7287	17.7
8 1-Methylnaphthalene	142	6.721	6.687	(1.180)	11012	13.4138	13.4
10 Acenaphthylene	152	Compound Not Detected.					
* 11 Acenaphthene-d10	164	7.854	7.854	(1.000)	210928	200.000	
12 Acenaphthene	153	Compound Not Detected.					
14 Dibenzofuran	168	Compound Not Detected.					
15 Fluorene	166	Compound Not Detected.					
* 18 Phenanthrene-d10	188	9.677	9.677	(1.000)	372652	200.000	
19 Phenanthrene	178	Compound Not Detected.					
20 Anthracene	178	Compound Not Detected.					
24 Fluoranthene	202	Compound Not Detected.					
25 Pyrene	202	Compound Not Detected.					
28 Benzo (a) anthracene	228	Compound Not Detected.					

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
* 29 Chrysene-d12	240	12.963	12.963	(1.000)	303372	200.000	
30 Chrysene	228				Compound Not Detected.		
43 Total Benzofluoranthenes	252				Compound Not Detected.		
34 Benzo(a)pyrene	252				Compound Not Detected.		
* 35 Perylene-d12	264	14.677	14.688	(1.000)	236491	200.000	
37 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
\$ 36 Dibenzo(a,h)anthracene-d14	292	16.241	16.241	(1.107)	215774	258.464	258
38 Dibenzo(a,h)anthracene	278				Compound Not Detected.		
39 Benzo(g,h,i)perylene	276				Compound Not Detected.		

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i	Calibration Date: 27-JAN-2011
Lab File ID: sf50b.d	Calibration Time: 10:21
Lab Smp Id: SF50B	Client Smp ID: MW06-012011
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: Water
Operator: yz	
Method File: /chem3/nt11.i/20110127.b/lowsim.m	
Misc Info: 11-1199	

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	350144	2.22
11 Acenaphthene-d10	185015	92508	370030	210928	14.01
18 Phenanthrene-d10	320966	160483	641932	372652	16.10
29 Chrysene-d12	212759	106380	425518	303372	42.59
35 Perylene-d12	156605	78302	313210	236491	51.01

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.70	5.20	6.20	5.70	0.00
11 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.00
18 Phenanthrene-d10	9.68	9.18	10.18	9.68	0.00
29 Chrysene-d12	12.96	12.46	13.46	12.96	0.00
35 Perylene-d12	14.69	14.19	15.19	14.68	-0.08

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

Analytical Resources, Inc.

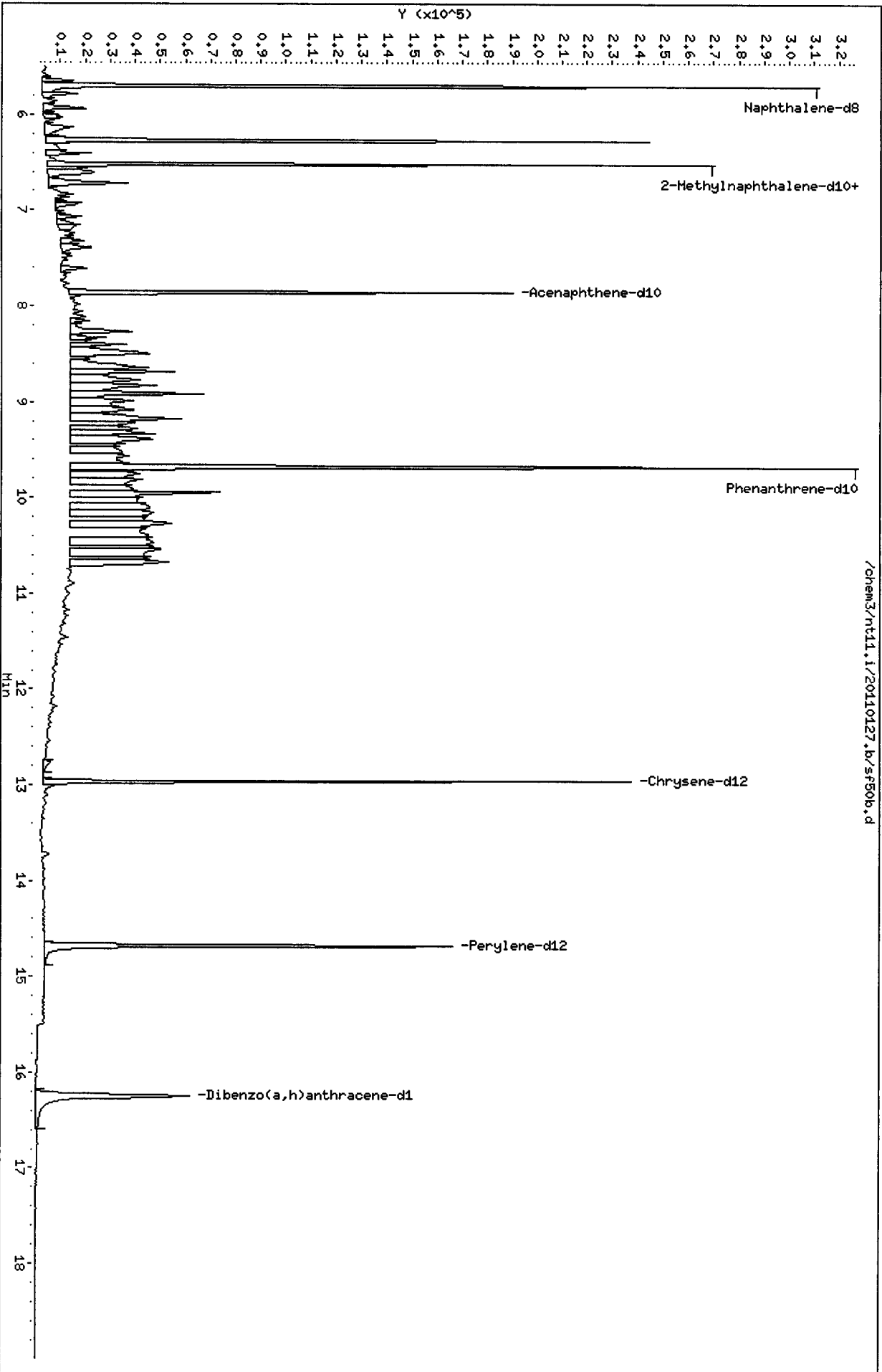
RECOVERY REPORT

Client Name: Floyd/Snider	Client SDG: SF50
Sample Matrix: LIQUID	Fraction: SV
Lab Smp Id: SF50B	Client Smp ID: MW06-012011
Level: LOW	Operator: yz
Data Type: MS DATA	SampleType: SAMPLE
SpikeList File: waterlcs.spk	Quant Type: ISTD
Sublist File: pnalnm.sub	
Method File: /chem3/nt11.i/20110127.b/lowsim.m	
Misc Info: 11-1199	

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	300	237	78.87	31-109
\$ 36 Dibenzo(a,h) anthra	300	258	86.15	10-133

Data File: /chem3/nt11.i/20110127.b/sf50b.d
Date : 27-JAN-2011 12:18
Client ID: MM06-012011
Sample Info: SF50B
Volume Injected (uL): 2.0
Column phase: ZB-5msi

Instrument: nt11.i
Operator: yz
Column diameter: 0.25



/chem3/nt11.i/20110127.b/sf50b.d

CO-ELUTION SUMMARY FOR FILE - sf50b.d

Lab ID: SF50B, Method: lowsim.m, Instrument: nt11.i, Date: 27-JAN-2011

RT	CO-ELUTION COMPOUNDS
6.526	2-Methylnaphthalene-d10 and 2-Methylnaphthalene

Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

YZ 01/28/11

Data file : /chem3/nt11.i/20110127.b/sf50c.d
 Lab Smp Id: SF50C Client Smp ID: MW12-012011
 Inj Date : 27-JAN-2011 12:42
 Operator : yz Inst ID: nt11.i
 Smp Info : SF50C
 Misc Info : 11-1200
 Comment :
 Method : /chem3/nt11.i/20110127.b/lowsim.m
 Meth Date : 28-Jan-2011 09:12 yev Quant Type: ISTD
 Cal Date : 21-JAN-2011 17:28 Cal File: ic0121f.d
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalmn.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
* 4 Naphthalene-d8	136	5.697	5.697	(1.000)	321777	200.000	
5 Naphthalene	128	5.720	5.720	(1.004)	21783	16.7253	16.7
S 6 2-Methylnaphthalene-d10	152	6.526	6.526	(1.145)	175063	226.855	227
7 2-Methylnaphthalene	142	Compound Not Detected.					
8 1-Methylnaphthalene	142	Compound Not Detected.					
10 Acenaphthylene	152	Compound Not Detected.					
* 11 Acenaphthene-d10	164	7.854	7.854	(1.000)	190371	200.000	
12 Acenaphthene	153	Compound Not Detected.					
14 Dibenzofuran	168	8.095	8.095	(1.031)	8852	7.08323	7.08
15 Fluorene	166	Compound Not Detected.					
* 18 Phenanthrene-d10	188	9.677	9.677	(1.000)	332177	200.000	
19 Phenanthrene	178	Compound Not Detected.					
20 Anthracene	178	Compound Not Detected.					
24 Fluoranthene	202	Compound Not Detected.					
25 Pyrene	202	Compound Not Detected.					
28 Benzo (a) anthracene	228	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
* 29 Chrysene-d12	240	12.963	12.963	(1.000)	270829	200.000	
30 Chrysene	228				Compound Not Detected.		
43 Total Benzofluoranthenes	252				Compound Not Detected.		
34 Benzo(a)pyrene	252				Compound Not Detected.		
* 35 Perylene-d12	264	14.677	14.688	(1.000)	218045	200.000	
37 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.		
\$ 36 Dibenzo(a,h)anthracene-d14	292	16.241	16.241	(1.107)	221108	287.260 ✓	287
38 Dibenzo(a,h)anthracene	278				Compound Not Detected.		
39 Benzo(g,h,i)perylene	276				Compound Not Detected.		

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i	Calibration Date: 27-JAN-2011
Lab File ID: sf50c.d	Calibration Time: 10:21
Lab Smp Id: SF50C	Client Smp ID: MW12-012011
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: Water
Operator: yz	
Method File: /chem3/nt11.i/20110127.b/lowsim.m	
Misc Info: 11-1200	

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	321777	-6.06
11 Acenaphthene-d10	185015	92508	370030	190371	2.89
18 Phenanthrene-d10	320966	160483	641932	332177	3.49
29 Chrysene-d12	212759	106380	425518	270829	27.29
35 Perylene-d12	156605	78302	313210	218045	39.23

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.70	5.20	6.20	5.70	0.00
11 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.00
18 Phenanthrene-d10	9.68	9.18	10.18	9.68	0.00
29 Chrysene-d12	12.96	12.46	13.46	12.96	0.00
35 Perylene-d12	14.69	14.19	15.19	14.68	-0.08

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

Analytical Resources, Inc.

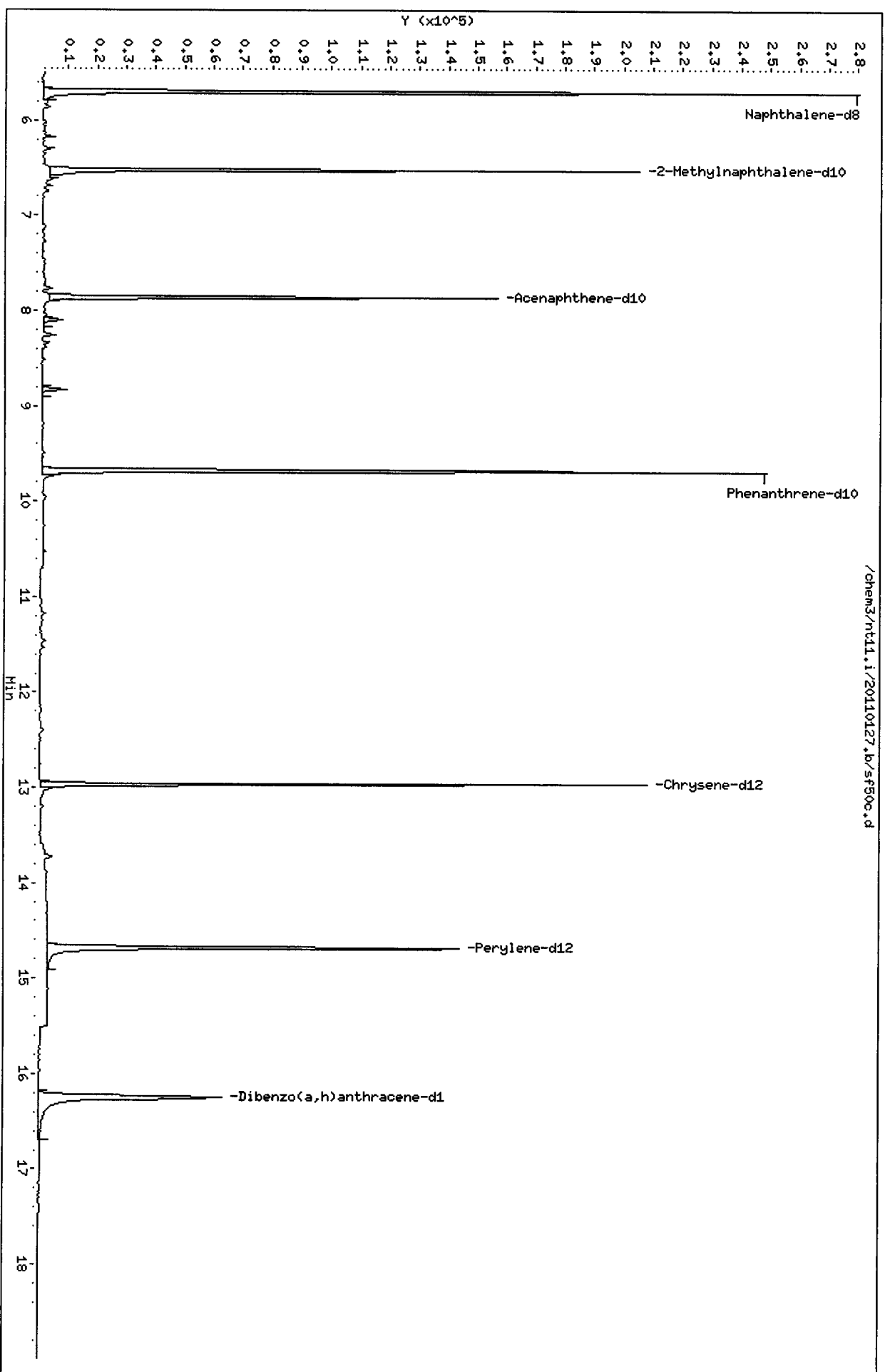
RECOVERY REPORT

Client Name: Floyd/Snider Client SDG: SF50
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: SF50C Client Smp ID: MW12-012011
Level: LOW Operator: yz
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: waterlcs.spk Quant Type: ISTD
Sublist File: pnalnm.sub
Method File: /chem3/nt11.i/20110127.b/lowsim.m
Misc Info: 11-1200

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	300	227	75.62	31-109
\$ 36 Dibenzo(a,h) anthra	300	287	95.75	10-133

Data File: /chem3/nt11.i/20110127.b/sf50c.d
Date : 27-JAN-2011 12:42
Client ID: HM12-012011
Sample Info: SF50C
Volume Injected (uL): 2.0
Column phase: ZB-5ms1

Instrument: nt11.i
Operator: yz
Column diameter: 0.25



/chem3/nt11.i/20110127.b/sf50c.d

CO-ELUTION SUMMARY FOR FILE - sf50c.d

Lab ID: SF50C, Method: lowsim.m, Instrument: nt11.i, Date: 27-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

SF26:60040

Analytical Resources, Inc.

YZ 01/28/11

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt11.i/20110127.b/sf50d.d
 Lab Smp Id: SF50D Client Smp ID: MW04-012011
 Inj Date : 27-JAN-2011 13:06
 Operator : yz Inst ID: nt11.i
 Smp Info : SF50D
 Misc Info : 11-1201
 Comment :
 Method : /chem3/nt11.i/20110127.b/lowsim.m
 Meth Date : 28-Jan-2011 09:12 yev Quant Type: ISTD
 Cal Date : 21-JAN-2011 17:28 Cal File: ic0121f.d
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalmn.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
* 4 Naphthalene-d8	136	5.697	5.697	(1.000)	338614	200.000	
5 Naphthalene	128	5.720	5.720	(1.004)	15034	10.9693	11.0
\$ 6 2-Methylnaphthalene-d10	152	6.526	6.526	(1.145)	164274	202.289	202
7 2-Methylnaphthalene	142	Compound Not Detected.					
8 1-Methylnaphthalene	142	Compound Not Detected.					
10 Acenaphthylene	152	Compound Not Detected.					
* 11 Acenaphthene-d10	164	7.854	7.854	(1.000)	200630	200.000	
12 Acenaphthene	153	Compound Not Detected.					
14 Dibenzofuran	168	Compound Not Detected.					
15 Fluorene	166	Compound Not Detected.					
* 18 Phenanthrene-d10	188	9.677	9.677	(1.000)	347312	200.000	
19 Phenanthrene	178	Compound Not Detected.					
20 Anthracene	178	Compound Not Detected.					
24 Fluoranthene	202	Compound Not Detected.					
25 Pyrene	202	Compound Not Detected.					
28 Benzo(a)anthracene	228	Compound Not Detected.					

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/mL)	FINAL (ug/L)	
*****	****	==	*****	*****	*****	*****	*****	
* 29 Chrysene-d12	240	12.963	12.963	(1.000)	290409	200.000		
30 Chrysene	228				Compound Not Detected.			
43 Total Benzofluoranthenes	252				Compound Not Detected.			
34 Benzo(a)pyrene	252				Compound Not Detected.			
* 35 Perylene-d12	264	14.677	14.688	(1.000)	234523	200.000		
37 Indeno(1,2,3-cd)pyrene	276				Compound Not Detected.			
\$ 36 Dibenzo(a,h)anthracene-d14	292	16.241	16.241	(1.107)	215280	260.037	260	
38 Dibenzo(a,h)anthracene	278				Compound Not Detected.			
39 Benzo(g,h,i)perylene	276				Compound Not Detected.			

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i	Calibration Date: 27-JAN-2011
Lab File ID: sf50d.d	Calibration Time: 10:21
Lab Smp Id: SF50D	Client Smp ID: MW04-012011
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: Water
Operator: yz	
Method File: /chem3/nt11.i/20110127.b/lowsim.m	
Misc Info: 11-1201	

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	338614	-1.15
11 Acenaphthene-d10	185015	92508	370030	200630	8.44
18 Phenanthrene-d10	320966	160483	641932	347312	8.21
29 Chrysene-d12	212759	106380	425518	290409	36.50
35 Perylene-d12	156605	78302	313210	234523	49.75

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.70	5.20	6.20	5.70	0.00
11 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.00
18 Phenanthrene-d10	9.68	9.18	10.18	9.68	0.00
29 Chrysene-d12	12.96	12.46	13.46	12.96	0.00
35 Perylene-d12	14.69	14.19	15.19	14.68	-0.08

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

Analytical Resources, Inc.

RECOVERY REPORT

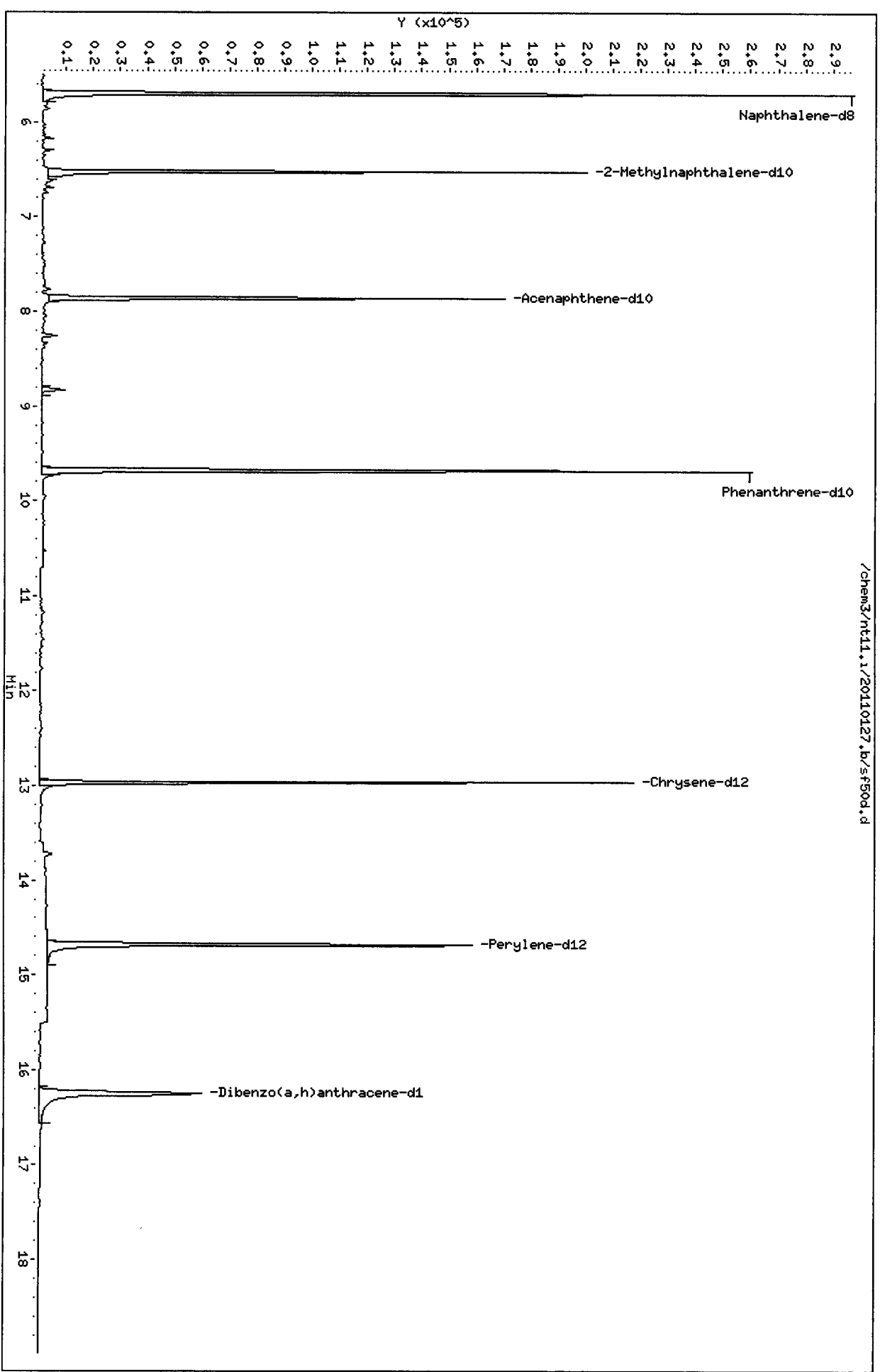
Client Name: Floyd/Snider
Sample Matrix: LIQUID
Lab Smp Id: SF50D
Level: LOW
Data Type: MS DATA
SpikeList File: waterlcs.spk
Sublist File: pnalnm.sub
Method File: /chem3/nt11.i/20110127.b/lowsim.m
Misc Info: 11-1201

Client SDG: SF50
Fraction: SV
Client Smp ID: MW04-012011
Operator: yz
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	300	202	67.43	31-109
\$ 36 Dibenzo(a,h) anthra	300	260	86.68	10-133

Data File: /chem3/nt11.1/20110127.b/sf50d.d
Date : 27-JAN-2011 13:06
Client ID: HM04-012011
Sample Info: SF50D
Volume Injected (uL): 2.0
Column phase: ZB-Smsi

Instrument: nt11.1
Operator: yz
Column diameter: 0.25



/chem3/nt11.1/20110127.b/sf50d.d

000000 04 10

CO-ELUTION SUMMARY FOR FILE - sf50d.d

Lab ID: SF50D, Method: lowsim.m, Instrument: nt11.i, Date: 27-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

YZ 01/28/11

Data file : /chem3/nt11.i/20110127.b/sf50e.d
 Lab Smp Id: SF50E Client Smp ID: MW17-012011
 Inj Date : 27-JAN-2011 13:29
 Operator : yz Inst ID: nt11.i
 Smp Info : SF50E
 Misc Info : 11-1202
 Comment :
 Method : /chem3/nt11.i/20110127.b/lowsim.m
 Meth Date : 28-Jan-2011 09:12 yev Quant Type: ISTD
 Cal Date : 21-JAN-2011 17:28 Cal File: ic0121f.d
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalmn.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
* 4 Naphthalene-d8	136	5.697	5.697	(1.000)	344494	200.000	
5 Naphthalene	128	5.720	5.720	(1.004)	19337	13.8681	13.9
\$ 6 2-Methylnaphthalene-d10	152	6.526	6.526	(1.145)	169518	205.184	205
7 2-Methylnaphthalene	142	6.560	6.560	(1.151)	7238	9.05730	9.06
8 1-Methylnaphthalene	142	Compound Not Detected.					
10 Acenaphthylene	152	Compound Not Detected.					
* 11 Acenaphthene-d10	164	7.854	7.854	(1.000)	206920	200.000	
12 Acenaphthene	153	Compound Not Detected.					
14 Dibenzofuran	168	Compound Not Detected.					
15 Fluorene	166	Compound Not Detected.					
* 18 Phenanthrene-d10	188	9.677	9.677	(1.000)	357312	200.000	
19 Phenanthrene	178	Compound Not Detected.					
20 Anthracene	178	Compound Not Detected.					
24 Fluoranthene	202	Compound Not Detected.					
25 Pyrene	202	Compound Not Detected.					
28 Benzo (a) anthracene	228	Compound Not Detected.					

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
						ON-COLUMN (ng/mL)	FINAL (ug/L)	
* 29 Chrysene-d12	240	12.963	12.963	(1.000)	290587	200.000		
30 Chrysene	228	Compound Not Detected.						
43 Total Benzofluoranthenes	252	Compound Not Detected.						
34 Benzo(a)pyrene	252	14.711	14.608	(1.000)	7477	6.72867	6.73	
* 35 Perylene-d12	264	14.677	14.688	(1.000)	237010	200.000		
37 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.						
\$ 36 Dibenzo(a,h)anthracene-d14	292	16.241	16.241	(1.107)	151285	180.820	181	
38 Dibenzo(a,h)anthracene	278	Compound Not Detected.						
39 Benzo(g,h,i)perylene	276	Compound Not Detected.						

Analytical Resources, Inc.
 INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i	Calibration Date: 27-JAN-2011
Lab File ID: sf50e.d	Calibration Time: 10:21
Lab Smp Id: SF50E	Client Smp ID: MW17-012011
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: Water
Operator: yz	
Method File: /chem3/nt11.i/20110127.b/lowsim.m	
Misc Info: 11-1202	

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	344494	0.57
11 Acenaphthene-d10	185015	92508	370030	206920	11.84
18 Phenanthrene-d10	320966	160483	641932	357312	11.32
29 Chrysene-d12	212759	106380	425518	290587	36.58
35 Perylene-d12	156605	78302	313210	237010	51.34

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.70	5.20	6.20	5.70	0.00
11 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.00
18 Phenanthrene-d10	9.68	9.18	10.18	9.68	0.00
29 Chrysene-d12	12.96	12.46	13.46	12.96	0.00
35 Perylene-d12	14.69	14.19	15.19	14.68	-0.08

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

Analytical Resources, Inc.

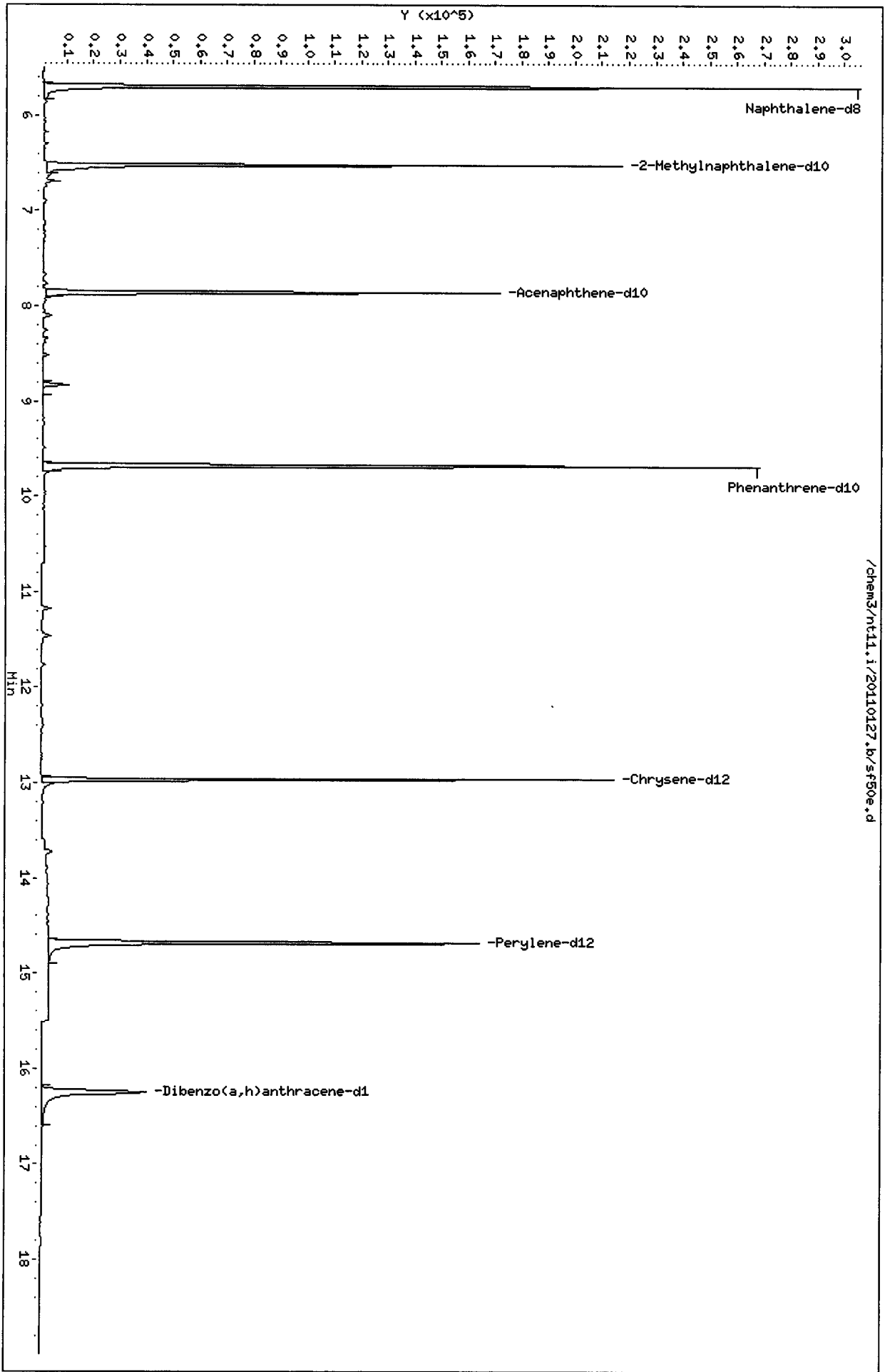
RECOVERY REPORT

Client Name: Floyd/Snider	Client SDG: SF50
Sample Matrix: LIQUID	Fraction: SV
Lab Smp Id: SF50E	Client Smp ID: MW17-012011
Level: LOW	Operator: yz
Data Type: MS DATA	SampleType: SAMPLE
SpikeList File: waterlcs.spk	Quant Type: ISTD
Sublist File: pnalnm.sub	
Method File: /chem3/nt11.i/20110127.b/lowsim.m	
Misc Info: 11-1202	

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	300	205	68.39	31-109
\$ 36 Dibenzo(a,h) anthra	300	181	60.27	10-133

Data File: /chem3/rt11.i/20110127.b/sf50e.d
Date : 27-JAN-2011 13:29
Client ID: MW17-012011
Sample Info: SF50E
Volume Injected (uL): 2.0
Column phase: ZB-5msi

Instrument: rt11.i
Operator: yz
Column diameter: 0.25



/chem3/rt11.i/20110127.b/sf50e.d

SF 26 : 000059

CO-ELUTION SUMMARY FOR FILE - sf50e.d

Lab ID: SF50E, Method: lowsim.m, Instrument: nt11.i, Date: 27-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

YZ 1/28/11

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt11.i/20110127.b/sf50f.d
 Lab Smp Id: SF50F Client Smp ID: MW03-012011
 Inj Date : 27-JAN-2011 13:53
 Operator : yz Inst ID: nt11.i
 Smp Info : SF50F
 Misc Info : 11-1203
 Comment :
 Method : /chem3/nt11.i/20110127.b/lowsim.m
 Meth Date : 28-Jan-2011 09:12 yev Quant Type: ISTD
 Cal Date : 21-JAN-2011 17:28 Cal File: ic0121f.d
 Als bottle: 8
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalmn.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
* 4 Naphthalene-d8	136	5.697	5.697	(1.000)	344785	200.000	
5 Naphthalene	128	5.720	5.720	(1.004)	11969	8.57727	8.58
\$ 6 2-Methylnaphthalene-d10	152	6.526	6.526	(1.145)	163773	198.063	198
7 2-Methylnaphthalene	142	Compound Not Detected.					
8 1-Methylnaphthalene	142	Compound Not Detected.					
10 Acenaphthylene	152	Compound Not Detected.					
* 11 Acenaphthene-d10	164	7.854	7.854	(1.000)	200864	200.000	
12 Acenaphthene	153	Compound Not Detected.					
14 Dibenzofuran	168	Compound Not Detected.					
15 Fluorene	166	Compound Not Detected.					
* 18 Phenanthrene-d10	188	9.677	9.677	(1.000)	353776	200.000	
19 Phenanthrene	178	Compound Not Detected.					
20 Anthracene	178	Compound Not Detected.					
24 Fluoranthene	202	Compound Not Detected.					
25 Pyrene	202	Compound Not Detected.					
28 Benzo (a) anthracene	228	Compound Not Detected.					

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
						ON-COLUMN (ng/mL)	FINAL (ug/L)	
* 29 Chrysene-d12	240	12.963	12.963	(1.000)	290521	200.000		
30 Chrysene	228	Compound Not Detected.						
43 Total Benzofluoranthenes	252	Compound Not Detected.						
34 Benzo(a)pyrene	252	Compound Not Detected.						
* 35 Perylene-d12	264	14.677	14.688	(1.000)	233157	200.000		
37 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.						
\$ 36 Dibenzo(a,h)anthracene-d14	292	16.241	16.241	(1.107)	165680	201.298	201	
38 Dibenzo(a,h)anthracene	278	Compound Not Detected.						
39 Benzo(g,h,i)perylene	276	Compound Not Detected.						

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i	Calibration Date: 27-JAN-2011
Lab File ID: sf50f.d	Calibration Time: 10:21
Lab Smp Id: SF50F	Client Smp ID: MW03-012011
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: Water
Operator: yz	
Method File: /chem3/nt11.i/20110127.b/lowsim.m	
Misc Info: 11-1203	

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	344785	0.65
11 Acenaphthene-d10	185015	92508	370030	200864	8.57
18 Phenanthrene-d10	320966	160483	641932	353776	10.22
29 Chrysene-d12	212759	106380	425518	290521	36.55
35 Perylene-d12	156605	78302	313210	233157	48.88

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.70	5.20	6.20	5.70	0.00
11 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.00
18 Phenanthrene-d10	9.68	9.18	10.18	9.68	0.00
29 Chrysene-d12	12.96	12.46	13.46	12.96	0.00
35 Perylene-d12	14.69	14.19	15.19	14.68	-0.08

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

Analytical Resources, Inc.

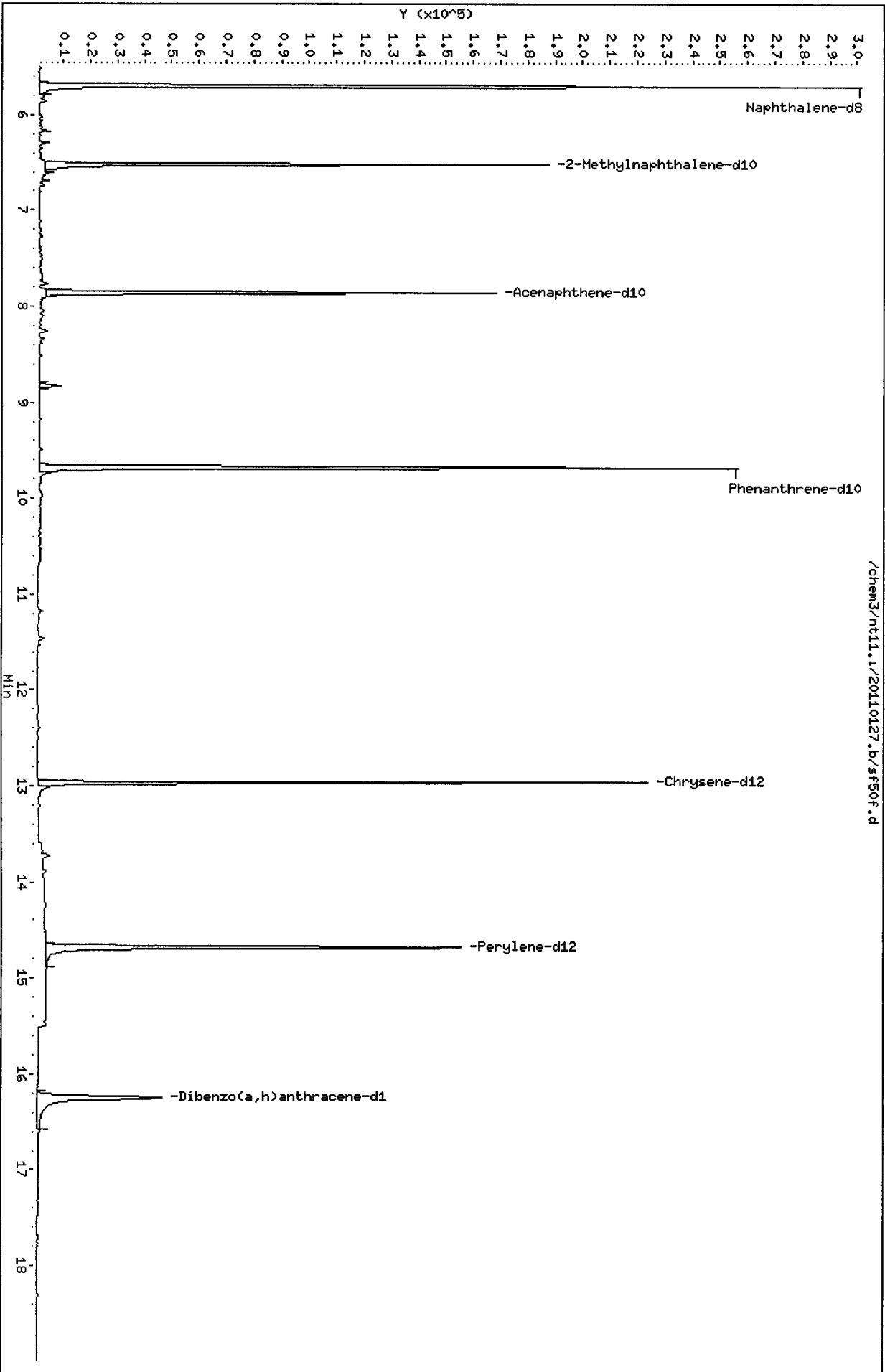
RECOVERY REPORT

Client Name: Floyd/Snider Client SDG: SF50
Sample Matrix: LIQUID Fraction: SV
Lab Smp Id: SF50F Client Smp ID: MW03-012011
Level: LOW Operator: yz
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: waterlcs.spk Quant Type: ISTD
Sublist File: pnalnm.sub
Method File: /chem3/nt11.i/20110127.b/lowsim.m
Misc Info: 11-1203

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	300	198	66.02	31-109
\$ 36 Dibenzo(a,h)anthra	300	201	67.10	10-133

Data File: /chem3/rt11.1/20110127.b/sf50f.d
Date : 27-JAN-2011 13:53
Client ID: HM03-012011
Sample Info: SF50F
Volume Injected (uL): 2.0
Column phase: ZB-5msi

Instrument: rt11.1
Operator: yz
Column diameter: 0.25



CO-ELUTION SUMMARY FOR FILE - sf50f.d

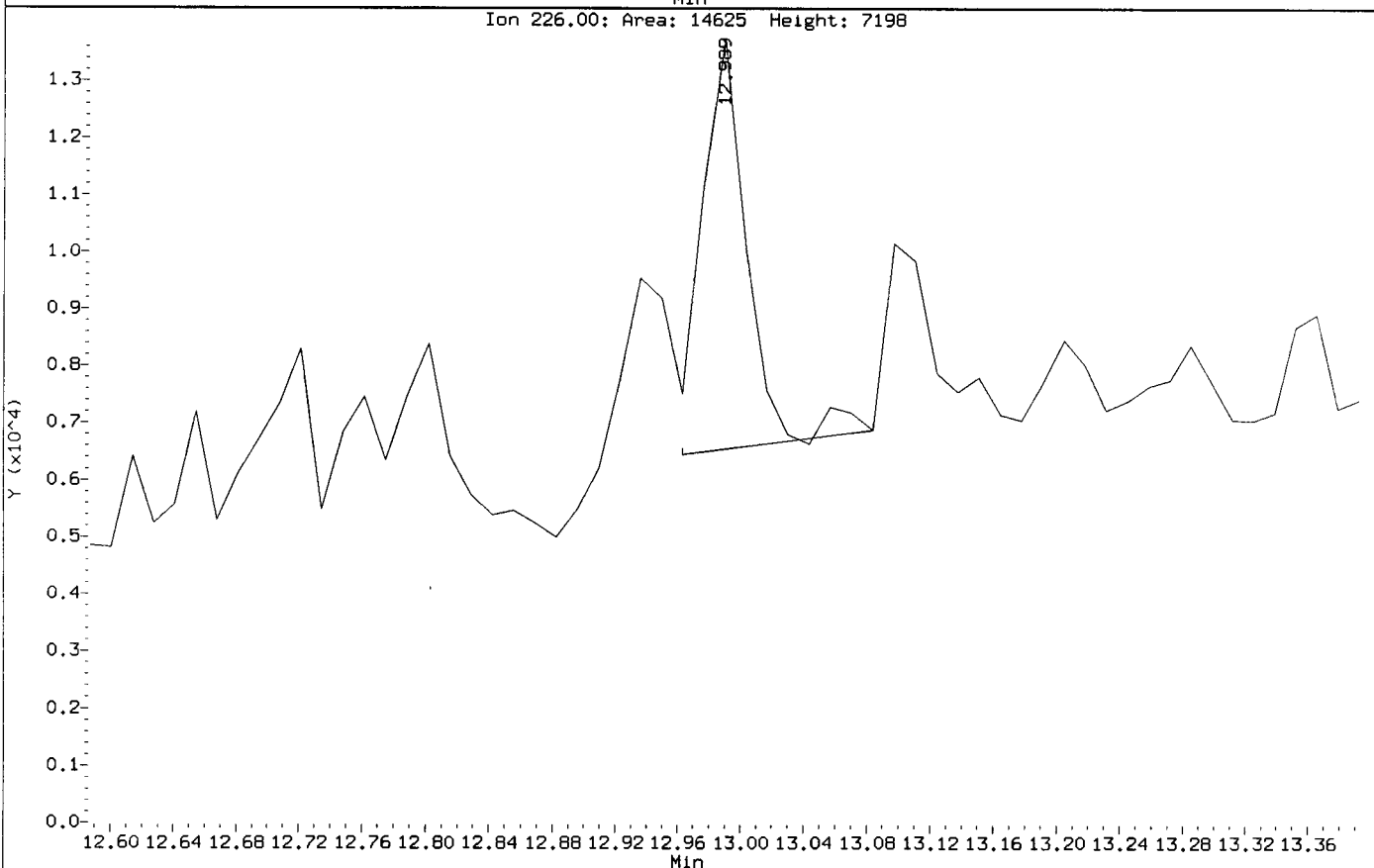
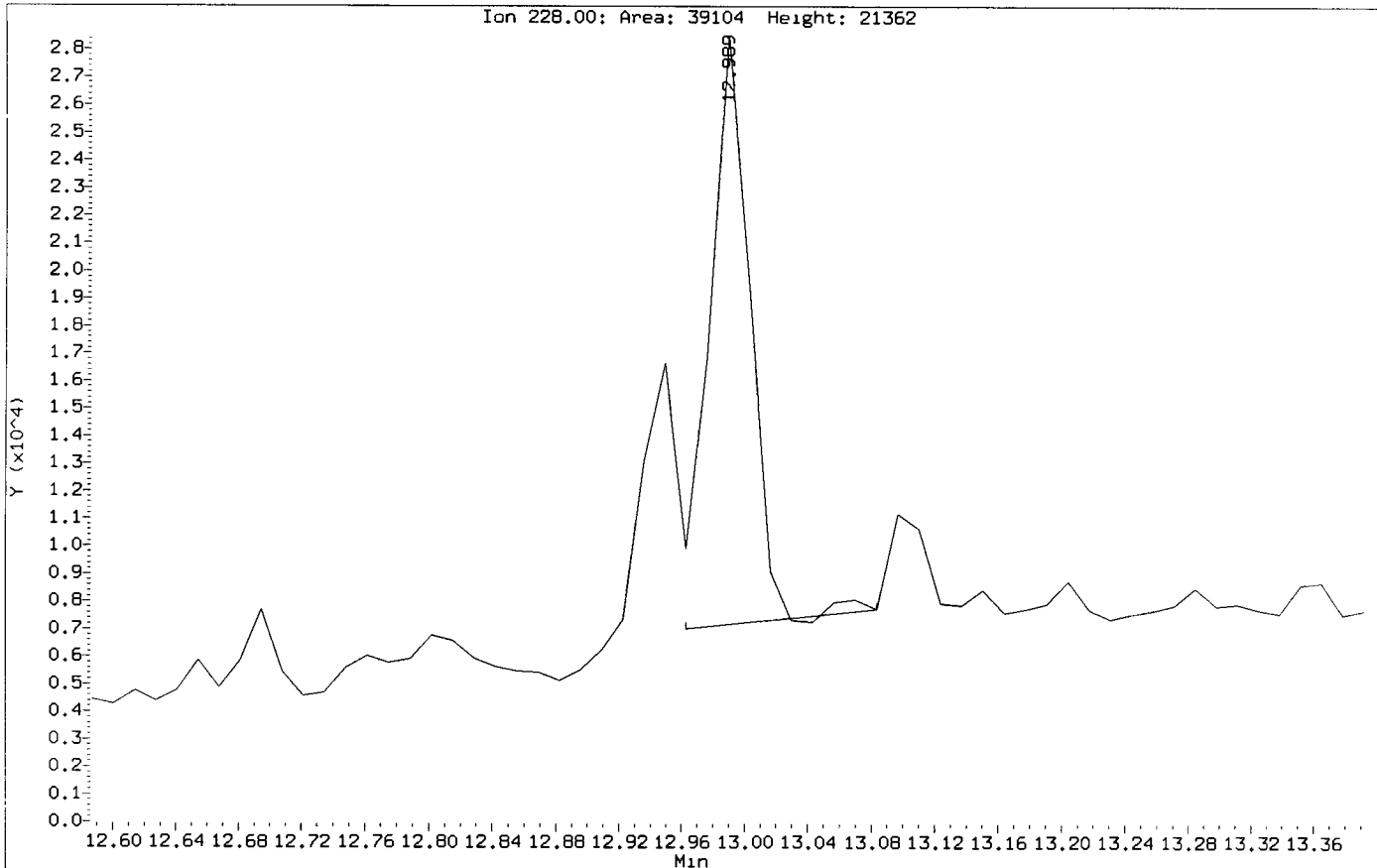
Lab ID: SF50F, Method: lowsim.m, Instrument: nt11.i, Date: 27-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Data File: /chem3/nt11.1/20110127.b/sf76g.d
Injection Date: 27-JAN-2011 16:38
Instrument: nt11.1
Client Sample ID: MW-01-012111

Compound: Chrysene
CAS Number:



Analytical Resources, Inc.

LOW LEVEL PNAS BY SW8270D-SIM

YE 01/28/11

Data file : /chem3/nt11.i/20110127.b/sf76a.d
 Lab Smp Id: SF76A Client Smp ID: MW-15-012111
 Inj Date : 27-JAN-2011 14:16
 Operator : yz Inst ID: nt11.i
 Smp Info : SF76A
 Misc Info : 11-1418
 Comment :
 Method : /chem3/nt11.i/20110127.b/lowsim.m
 Meth Date : 28-Jan-2011 09:12 yev Quant Type: ISTD
 Cal Date : 21-JAN-2011 17:28 Cal File: ic0121f.d
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalmn.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
* 4 Naphthalene-d8	136	5.697	5.697	(1.000)	341239	200.000	
5 Naphthalene	128	5.720	5.720	(1.004)	30572	22.1348	22.1
\$ 6 2-Methylnaphthalene-d10	152	6.526	6.526	(1.145)	163932	200.315	200
7 2-Methylnaphthalene	142	6.560	6.560	(1.151)	10144	12.8148	12.8
8 1-Methylnaphthalene	142	6.687	6.687	(1.174)	5395	6.74320	6.74
10 Acenaphthylene	152	Compound Not Detected.					
* 11 Acenaphthene-d10	164	7.854	7.854	(1.000)	204859	200.000	
12 Acenaphthene	153	Compound Not Detected.					
14 Dibenzofuran	168	Compound Not Detected.					
15 Fluorene	166	Compound Not Detected.					
* 18 Phenanthrene-d10	188	9.677	9.677	(1.000)	348754	200.000	
19 Phenanthrene	178	9.704	9.704	(1.003)	8366	5.94446	5.94
20 Anthracene	178	Compound Not Detected.					
24 Fluoranthene	202	Compound Not Detected.					
25 Pyrene	202	Compound Not Detected.					

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/mL)	FINAL (ug/L)
=====	====		==	=====	=====	=====	=====	=====
28 Benzo (a) anthracene	228					Compound Not Detected.		
* 29 Chrysene-d12	240		12.963	12.963	(1.000)	278363	200.000	
30 Chrysene	228					Compound Not Detected.		
43 Total Benzofluoranthenes	252					Compound Not Detected.		
34 Benzo (a) pyrene	252					Compound Not Detected.		
* 35 Perylene-d12	264		14.688	14.688	(1.000)	233497	200.000	
37 Indeno (1,2,3-cd) pyrene	276					Compound Not Detected.		
\$ 36 Dibenzo (a,h) anthracene-d14	292		16.241	16.241	(1.106)	162656	197.335	197
38 Dibenzo (a,h) anthracene	278					Compound Not Detected.		
39 Benzo (g,h,i) perylene	276					Compound Not Detected.		

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i	Calibration Date: 27-JAN-2011
Lab File ID: sf76a.d	Calibration Time: 10:21
Lab Smp Id: SF76A	Client Smp ID: MW-15-012111
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: Groundwater
Operator: yz	
Method File: /chem3/nt11.i/20110127.b/lowsim.m	
Misc Info: 11-1418	

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	341239	-0.38
11 Acenaphthene-d10	185015	92508	370030	204859	10.73
18 Phenanthrene-d10	320966	160483	641932	348754	8.66
29 Chrysene-d12	212759	106380	425518	278363	30.83
35 Perylene-d12	156605	78302	313210	233497	49.10

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.70	5.20	6.20	5.70	0.00
11 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.00
18 Phenanthrene-d10	9.68	9.18	10.18	9.68	0.00
29 Chrysene-d12	12.96	12.46	13.46	12.96	0.00
35 Perylene-d12	14.69	14.19	15.19	14.69	0.00

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

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider

Sample Matrix: LIQUID

Lab Smp Id: SF76A

Level: LOW

Data Type: MS DATA

SpikeList File: waterlcs.spk

Sublist File: pnalnm.sub

Method File: /chem3/nt11.i/20110127.b/lowsim.m

Misc Info: 11-1418

Client SDG: SF76

Fraction: SV

Client Smp ID: MW-15-012111

Operator: yz

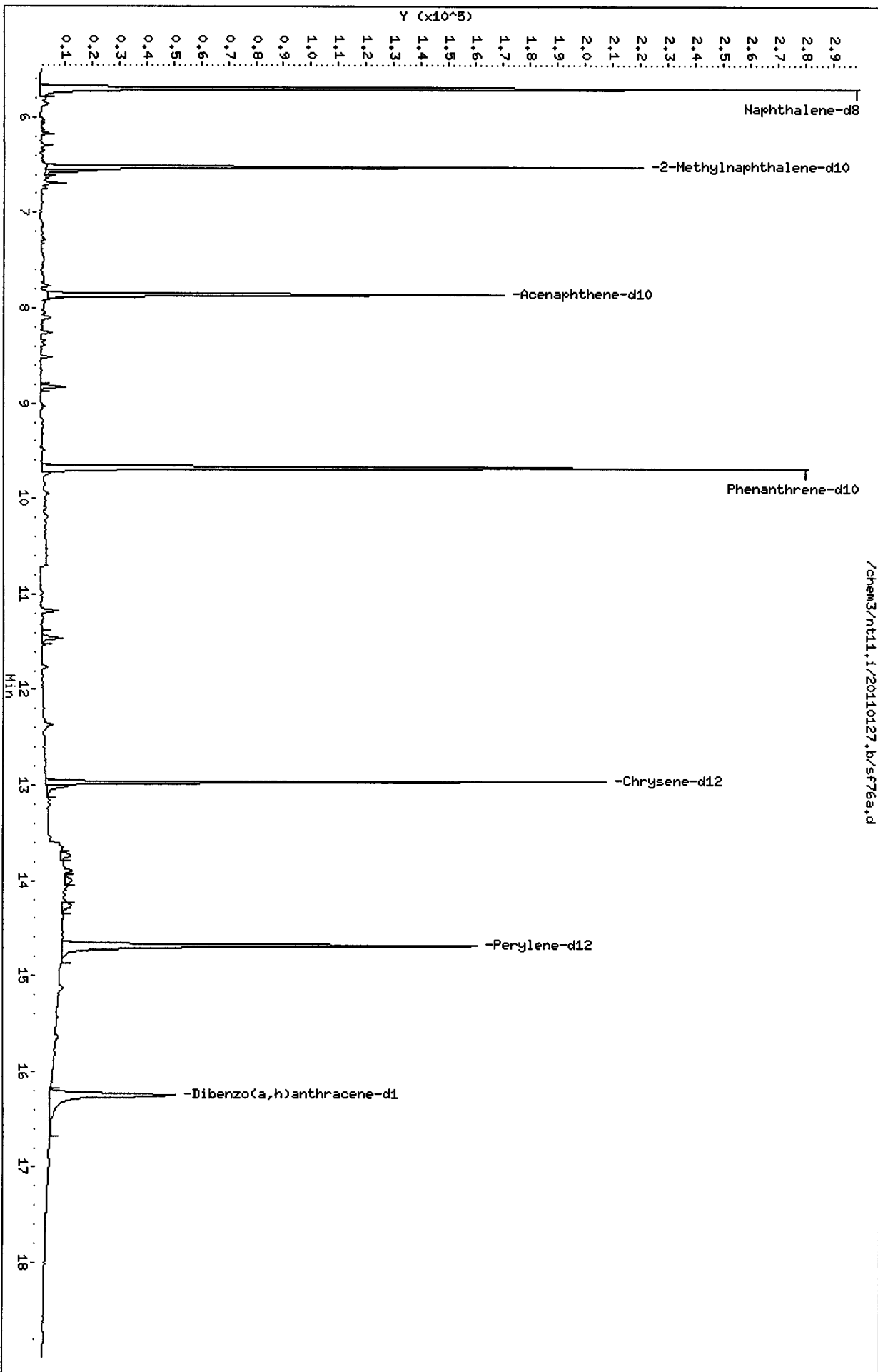
SampleType: SAMPLE

Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	300	200	66.77	31-109
\$ 36 Dibenzo(a,h)anthra	300	197	65.78	10-133

Data File: /chem3/nt11.i/20110127.b/sf76a.d
Date : 27-JAN-2011 14:16
Client ID: MW-15-012111
Sample Info: SF76A
Volume Injected (uL): 2.0
Column phase: ZB-Sms1

Instrument: nt11.i
Operator: yz
Column diameter: 0.25



CO-ELUTION SUMMARY FOR FILE - sf76a.d

Lab ID: SF76A, Method: lowsim.m, Instrument: nt11.i, Date: 27-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

YZ 01/28/11

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt11.i/20110127.b/sf76b.d
 Lab Smp Id: SF76B Client Smp ID: MW-05-012111
 Inj Date : 27-JAN-2011 14:40
 Operator : yz Inst ID: nt11.i
 Smp Info : SF76B
 Misc Info : 11-1419
 Comment :
 Method : /chem3/nt11.i/20110127.b/lowsim.m
 Meth Date : 28-Jan-2011 09:12 yev Quant Type: ISTD
 Cal Date : 21-JAN-2011 17:28 Cal File: ic0121f.d
 Als bottle: 10
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalmn.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
* 4 Naphthalene-d8	136	5.697	5.697	(1.000)	340308	200.000	
5 Naphthalene	128	5.720	5.720	(1.004)	18527	13.4507	13.5
\$ 6 2-Methylnaphthalene-d10	152	6.526	6.526	(1.145)	173560	212.660	213
7 2-Methylnaphthalene	142	6.560	6.560	(1.151)	4798	6.07785	6.08
8 1-Methylnaphthalene	142	Compound Not Detected.					
10 Acenaphthylene	152	Compound Not Detected.					
* 11 Acenaphthene-d10	164	7.854	7.854	(1.000)	199238	200.000	
12 Acenaphthene	153	Compound Not Detected.					
14 Dibenzofuran	168	Compound Not Detected.					
15 Fluorene	166	Compound Not Detected.					
* 18 Phenanthrene-d10	188	9.677	9.677	(1.000)	347832	200.000	
19 Phenanthrene	178	Compound Not Detected.					
20 Anthracene	178	Compound Not Detected.					
24 Fluoranthene	202	Compound Not Detected.					
25 Pyrene	202	Compound Not Detected.					

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
28 Benzo (a) anthracene	228				Compound Not Detected.		
* 29 Chrysene-d12	240	12.963	12.963	(1.000)	294498	200.000	
30 Chrysene	228				Compound Not Detected.		
43 Total Benzofluoranthenes	252				Compound Not Detected.		
34 Benzo (a) pyrene	252				Compound Not Detected.		
* 35 Perylene-d12	264	14.677	14.688	(1.000)	237550	200.000	
37 Indeno (1,2,3-cd) pyrene	276				Compound Not Detected.		
\$ 36 Dibenzo (a,h) anthracene-d14	292	16.241	16.241	(1.107)	185279	220.947	221
38 Dibenzo (a,h) anthracene	278				Compound Not Detected.		
39 Benzo (g,h,i) perylene	276				Compound Not Detected.		

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i	Calibration Date: 27-JAN-2011
Lab File ID: sf76b.d	Calibration Time: 10:21
Lab Smp Id: SF76B	Client Smp ID: MW-05-012111
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: Groundwater
Operator: yz	
Method File: /chem3/nt11.i/20110127.b/lowsim.m	
Misc Info: 11-1419	

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	340308	-0.65
11 Acenaphthene-d10	185015	92508	370030	199238	7.69
18 Phenanthrene-d10	320966	160483	641932	347832	8.37
29 Chrysene-d12	212759	106380	425518	294498	38.42
35 Perylene-d12	156605	78302	313210	237550	51.69

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.70	5.20	6.20	5.70	0.00
11 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.00
18 Phenanthrene-d10	9.68	9.18	10.18	9.68	0.00
29 Chrysene-d12	12.96	12.46	13.46	12.96	0.00
35 Perylene-d12	14.69	14.19	15.19	14.68	-0.08

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

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider

Sample Matrix: LIQUID

Lab Smp Id: SF76B

Level: LOW

Data Type: MS DATA

SpikeList File: waterlcs.spk

Sublist File: pnalnm.sub

Method File: /chem3/nt11.i/20110127.b/lowsim.m

Misc Info: 11-1419

Client SDG: SF76

Fraction: SV

Client Smp ID: MW-05-012111

Operator: yz

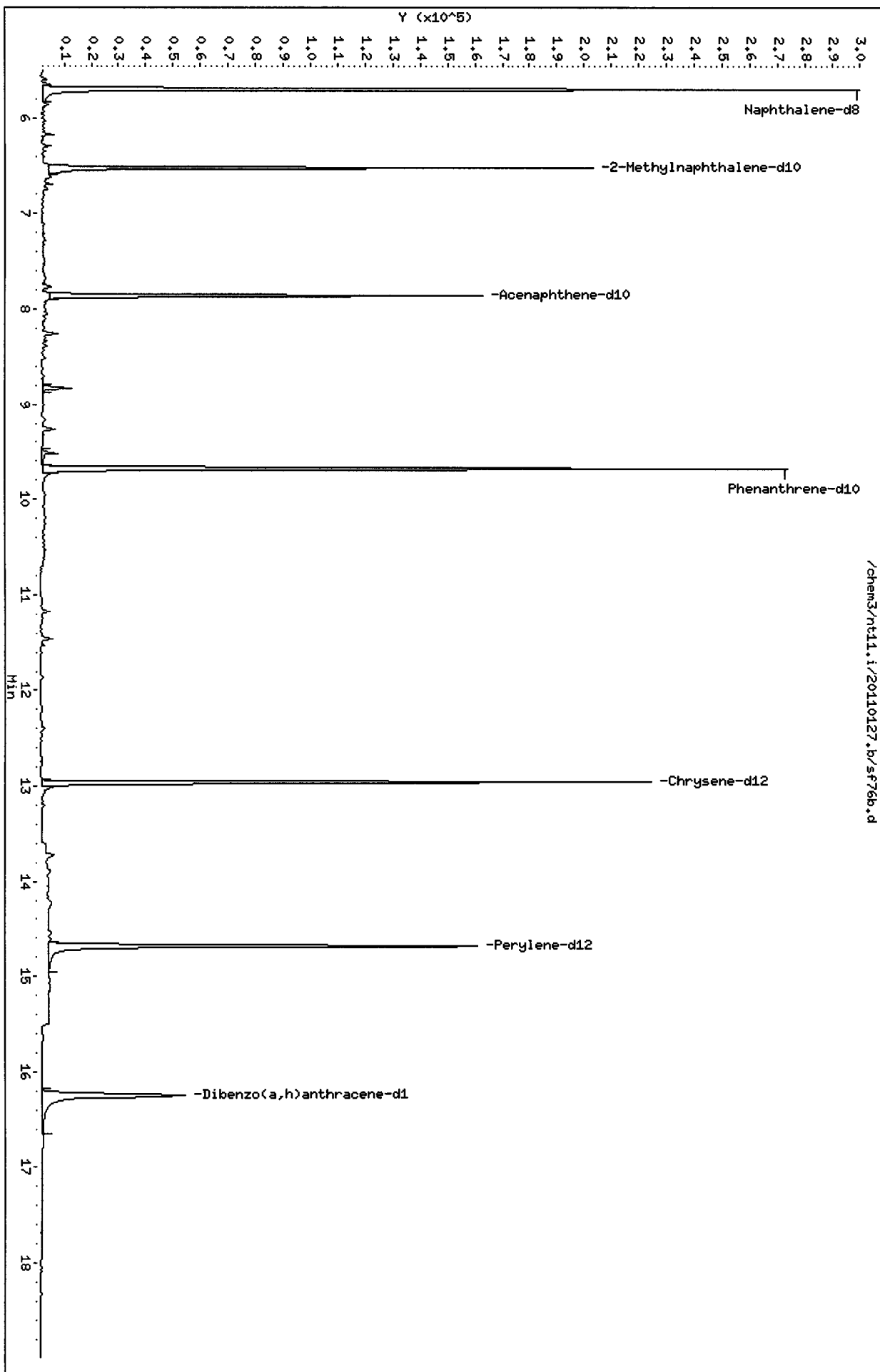
SampleType: SAMPLE

Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	300	213	70.89	31-109
\$ 36 Dibenzo(a,h)anthra	300	221	73.65	10-133

Data File: /chem3/nt11.i/20110127.b/sf76b.d
Date: 27-JAN-2011 14:40
Client ID: MW-05-012111
Sample Info: SF76B
Volume Injected (uL): 2.0
Column phase: ZB-5msi

Instrument: nt11.i
Operator: gz
Column diameter: 0.25



/chem3/nt11.i/20110127.b/sf76b.d

CO-ELUTION SUMMARY FOR FILE - sf76b.d

Lab ID: SF76B, Method: lowsims.m, Instrument: nt11.i, Date: 27-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

SF26 : 00679

Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

1/28/11

Data file : /chem3/nt11.i/20110127.b/sf76c.d
 Lab Smp Id: SF76C Client Smp ID: MW-16-012111
 Inj Date : 27-JAN-2011 15:04
 Operator : yz Inst ID: nt11.i
 Smp Info : SF76C
 Misc Info : 11-1420
 Comment :
 Method : /chem3/nt11.i/20110127.b/lowsim.m
 Meth Date : 28-Jan-2011 09:12 yev Quant Type: ISTD
 Cal Date : 21-JAN-2011 17:28 Cal File: ic0121f.d
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalmn.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
* 4 Naphthalene-d8	136	5.697	5.697	(1.000)	355461	200.000	
5 Naphthalene	128	5.720	5.720	(1.004)	20874	14.5086	14.5
\$ 6 2-Methylnaphthalene-d10	152	6.526	6.526	(1.145)	168302	197.427	197
7 2-Methylnaphthalene	142	Compound Not Detected.					
8 1-Methylnaphthalene	142	Compound Not Detected.					
10 Acenaphthylene	152	Compound Not Detected.					
* 11 Acenaphthene-d10	164	7.854	7.854	(1.000)	210484	200.000	
12 Acenaphthene	153	Compound Not Detected.					
14 Dibenzofuran	168	Compound Not Detected.					
15 Fluorene	166	Compound Not Detected.					
* 18 Phenanthrene-d10	188	9.677	9.677	(1.000)	368465	200.000	
19 Phenanthrene	178	Compound Not Detected.					
20 Anthracene	178	Compound Not Detected.					
24 Fluoranthene	202	Compound Not Detected.					
25 Pyrene	202	Compound Not Detected.					

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
28 Benzo (a) anthracene	228				Compound Not Detected.		
* 29 Chrysene-d12	240	12.963	12.963	(1.000)	305359	200.000	
30 Chrysene	228				Compound Not Detected.		
43 Total Benzofluoranthenes	252				Compound Not Detected.		
34 Benzo (a) pyrene	252				Compound Not Detected.		
* 35 Perylene-d12	264	14.677	14.688	(1.000)	247295	200.000	
37 Indeno (1,2,3-cd) pyrene	276				Compound Not Detected.		
\$ 36 Dibenzo (a,h) anthracene-d14	292	16.241	16.241	(1.107)	160639	184.014	184
38 Dibenzo (a,h) anthracene	278				Compound Not Detected.		
39 Benzo (g,h,i) perylene	276				Compound Not Detected.		

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i	Calibration Date: 27-JAN-2011
Lab File ID: sf76c.d	Calibration Time: 10:21
Lab Smp Id: SF76C	Client Smp ID: MW-16-012111
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: Groundwater
Operator: yz	
Method File: /chem3/nt11.i/20110127.b/lowsim.m	
Misc Info: 11-1420	

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	355461	3.77
11 Acenaphthene-d10	185015	92508	370030	210484	13.77
18 Phenanthrene-d10	320966	160483	641932	368465	14.80
29 Chrysene-d12	212759	106380	425518	305359	43.52
35 Perylene-d12	156605	78302	313210	247295	57.91

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.70	5.20	6.20	5.70	0.00
11 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.00
18 Phenanthrene-d10	9.68	9.18	10.18	9.68	0.00
29 Chrysene-d12	12.96	12.46	13.46	12.96	0.00
35 Perylene-d12	14.69	14.19	15.19	14.68	-0.08

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

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider

Client SDG: SF76

Sample Matrix: LIQUID

Fraction: SV

Lab Smp Id: SF76C

Client Smp ID: MW-16-012111

Level: LOW

Operator: yz

Data Type: MS DATA

SampleType: SAMPLE

SpikeList File: waterlcs.spk

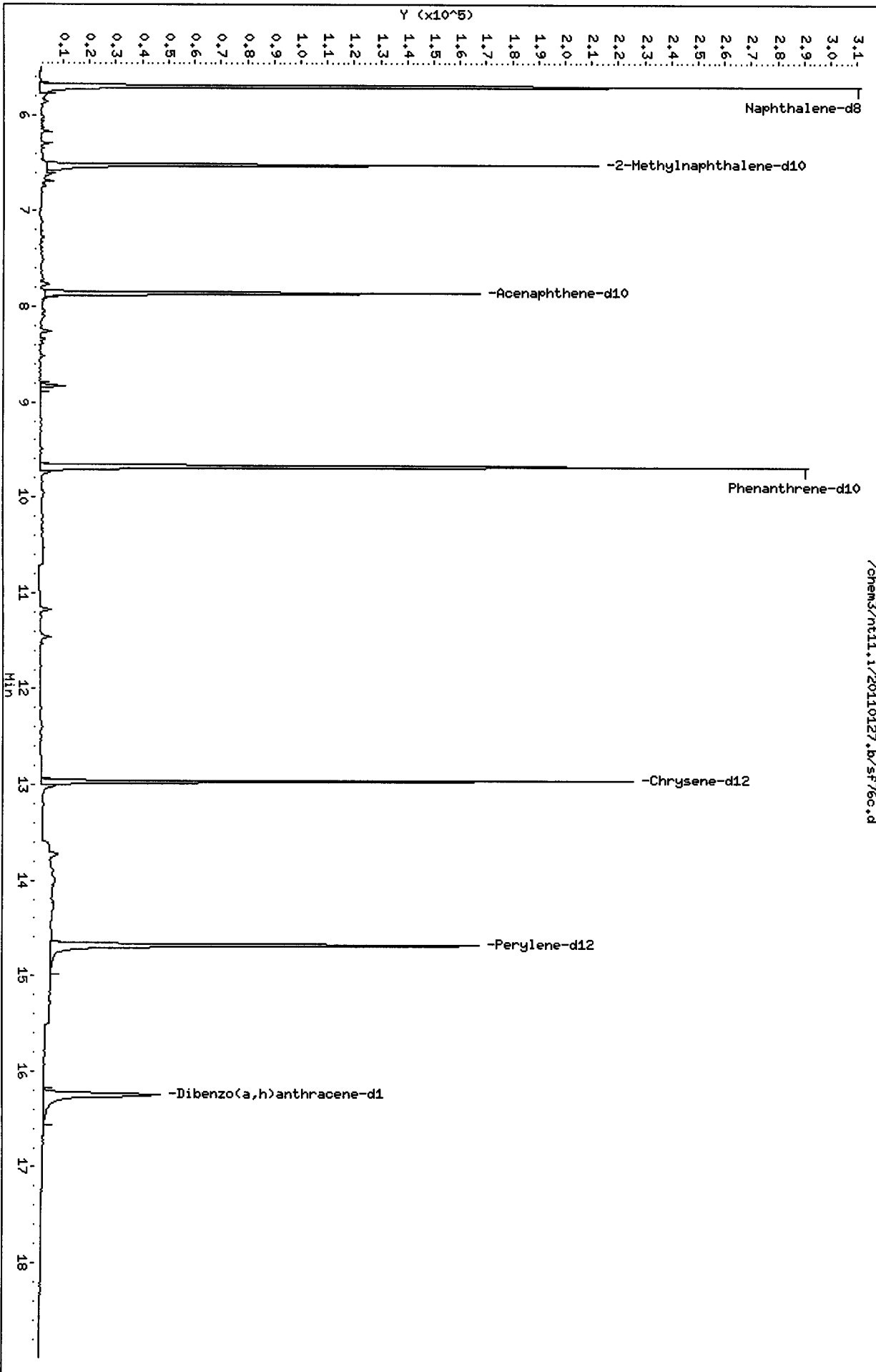
Quant Type: ISTD

Sublist File: pnalmn.sub

Method File: /chem3/nt11.i/20110127.b/lowsim.m

Misc Info: 11-1420

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	300	197	65.81	31-109
\$ 36 Dibenzo(a,h)anthra	300	184	61.34	10-133



CO-ELUTION SUMMARY FOR FILE - sf76c.d

Lab ID: SF76C, Method: lowsim.m, Instrument: nt11.i, Date: 27-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

LOW LEVEL PNAS BY SW8270D-SIM

YZ 01/28/11

Data file : /chem3/nt11.i/20110127.b/sf76d.d
 Lab Smp Id: SF76D Client Smp ID: MW-02-012111
 Inj Date : 27-JAN-2011 15:27
 Operator : yz Inst ID: nt11.i
 Smp Info : SF76D
 Misc Info : 11-1421
 Comment :
 Method : /chem3/nt11.i/20110127.b/lowsim.m
 Meth Date : 28-Jan-2011 09:12 yev Quant Type: ISTD
 Cal Date : 21-JAN-2011 17:28 Cal File: ic0121f.d
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalmn.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
* 4 Naphthalene-d8	136	5.697	5.697	(1.000)	355932	200.000	
5 Naphthalene	128	5.720	5.720	(1.004)	12806	8.88908	8.89
\$ 6 2-Methylnaphthalene-d10	152	6.526	6.526	(1.145)	171803	201.267	201
7 2-Methylnaphthalene	142	Compound Not Detected.					
8 1-Methylnaphthalene	142	Compound Not Detected.					
10 Acenaphthylene	152	Compound Not Detected.					
* 11 Acenaphthene-d10	164	7.854	7.854	(1.000)	211435	200.000	
12 Acenaphthene	153	Compound Not Detected.					
14 Dibenzofuran	168	Compound Not Detected.					
15 Fluorene	166	Compound Not Detected.					
* 18 Phenanthrene-d10	188	9.677	9.677	(1.000)	370203	200.000	
19 Phenanthrene	178	Compound Not Detected.					
20 Anthracene	178	Compound Not Detected.					
24 Fluoranthene	202	Compound Not Detected.					
25 Pyrene	202	Compound Not Detected.					

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
28 Benzo (a) anthracene	228				Compound Not Detected.		
* 29 Chrysene-d12	240	12.963	12.963	(1.000)	300271	200.000	
30 Chrysene	228				Compound Not Detected.		
43 Total Benzofluoranthenes	252				Compound Not Detected.		
34 Benzo (a) pyrene	252				Compound Not Detected.		
* 35 Perylene-d12	264	14.677	14.688	(1.000)	245242	200.000	
37 Indeno (1,2,3-cd) pyrene	276				Compound Not Detected.		
\$ 36 Dibenzo (a,h) anthracene-d14	292	16.241	16.241	(1.107)	187153	216.181	216
38 Dibenzo (a,h) anthracene	278				Compound Not Detected.		
39 Benzo (g,h,i) perylene	276				Compound Not Detected.		

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i	Calibration Date: 27-JAN-2011
Lab File ID: sf76d.d	Calibration Time: 10:21
Lab Smp Id: SF76D	Client Smp ID: MW-02-012111
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: Groundwater
Operator: yz	
Method File: /chem3/nt11.i/20110127.b/lowsim.m	
Misc Info: 11-1421	

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	355932	3.91
11 Acenaphthene-d10	185015	92508	370030	211435	14.28
18 Phenanthrene-d10	320966	160483	641932	370203	15.34
29 Chrysene-d12	212759	106380	425518	300271	41.13
35 Perylene-d12	156605	78302	313210	245242	56.60

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.70	5.20	6.20	5.70	0.00
11 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.00
18 Phenanthrene-d10	9.68	9.18	10.18	9.68	0.00
29 Chrysene-d12	12.96	12.46	13.46	12.96	0.00
35 Perylene-d12	14.69	14.19	15.19	14.68	-0.08

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

Analytical Resources, Inc.

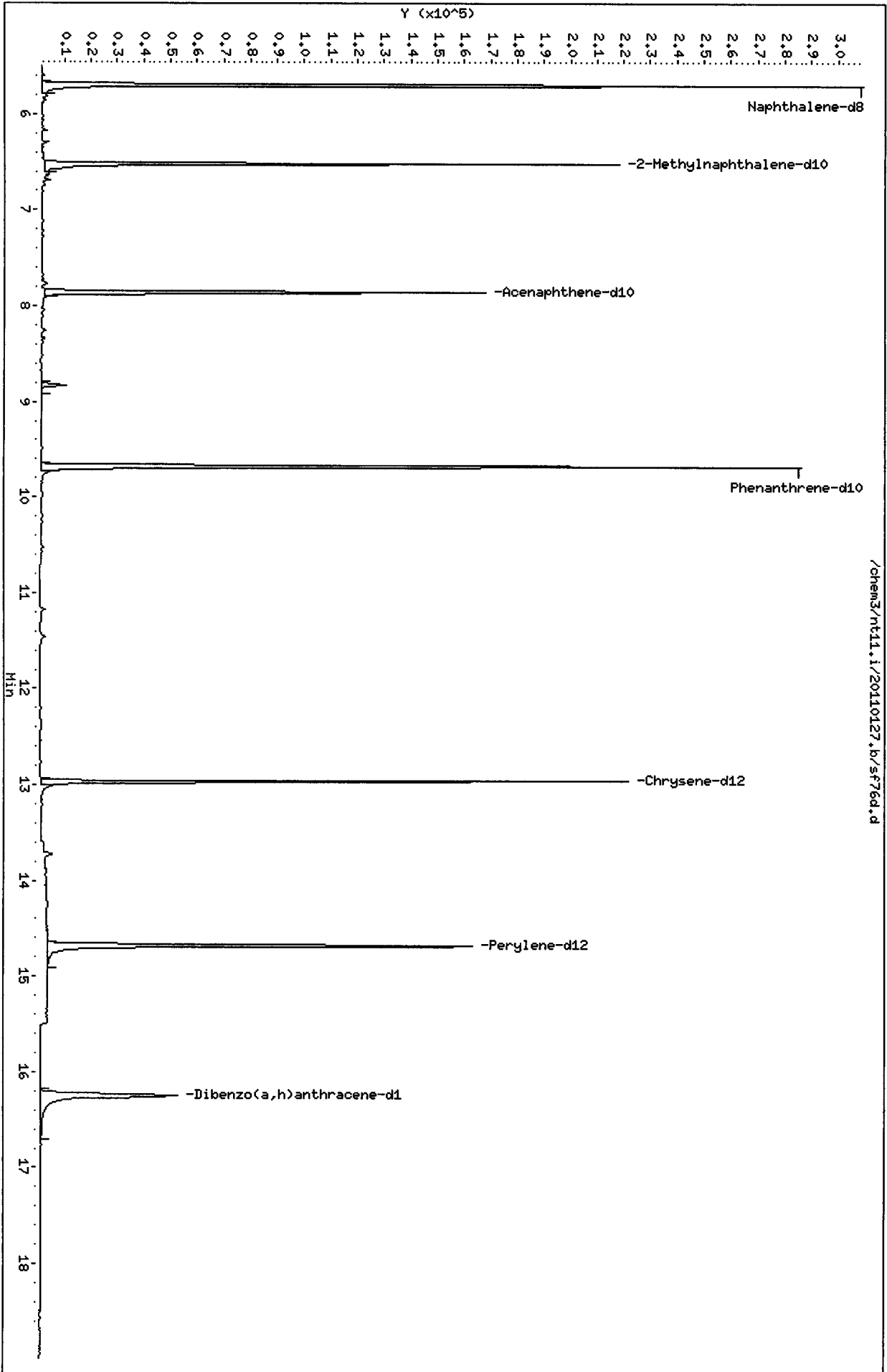
RECOVERY REPORT

Client Name: Floyd-Snyder	Client SDG: SF76
Sample Matrix: LIQUID	Fraction: SV
Lab Smp Id: SF76D	Client Smp ID: MW-02-012111
Level: LOW	Operator: yz
Data Type: MS DATA	SampleType: SAMPLE
SpikeList File: waterlcs.spk	Quant Type: ISTD
Sublist File: pnalmn.sub	
Method File: /chem3/nt11.i/20110127.b/lowsim.m	
Misc Info: 11-1421	

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	300	201	67.09	31-109
\$ 36 Dibenzo(a,h)anthra	300	216	72.06	10-133

Data File: /chem3/nt11.i/20110127.b/sf76d.d
Date : 27-JAN-2011 15:27
Client ID: MW-02-012111
Sample Info: SF76D
Volume Injected (uL): 2.0
Column phase: ZB-Sms1

Instrument: nt11.i
Operator: yz
Column diameter: 0.25



CO-ELUTION SUMMARY FOR FILE - sf76d.d

Lab ID: SF76D, Method: lowsim.m, Instrument: nt11.i, Date: 27-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

YZ 01/28/11

LOW LEVEL PNAS BY SW8270D-SIM

Data file : /chem3/nt11.i/20110127.b/sf76e.d
 Lab Smp Id: SF76E Client Smp ID: MW-09-012111
 Inj Date : 27-JAN-2011 15:51
 Operator : yz Inst ID: nt11.i
 Smp Info : SF76E
 Misc Info : 11-1422
 Comment :
 Method : /chem3/nt11.i/20110127.b/lowsim.m
 Meth Date : 28-Jan-2011 09:12 yev Quant Type: ISTD
 Cal Date : 21-JAN-2011 17:28 Cal File: ic0121f.d
 Als bottle: 13
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalmn.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
* 4 Naphthalene-d8	136	5.697	5.697	(1.000)	359076	200.000	
5 Naphthalene	128	5.720	5.720	(1.004)	13615	9.36789	9.37
\$ 6 2-Methylnaphthalene-d10	152	6.526	6.526	(1.145)	167004	193.932	194
7 2-Methylnaphthalene	142	Compound Not Detected.					
8 1-Methylnaphthalene	142	Compound Not Detected.					
10 Acenaphthylene	152	Compound Not Detected.					
* 11 Acenaphthene-d10	164	7.854	7.854	(1.000)	212482	200.000	
12 Acenaphthene	153	Compound Not Detected.					
14 Dibenzofuran	168	Compound Not Detected.					
15 Fluorene	166	Compound Not Detected.					
* 18 Phenanthrene-d10	188	9.677	9.677	(1.000)	367347	200.000	
19 Phenanthrene	178	Compound Not Detected.					
20 Anthracene	178	Compound Not Detected.					
24 Fluoranthene	202	Compound Not Detected.					
25 Pyrene	202	Compound Not Detected.					

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/mL)	FINAL (ug/L)
=====	====		==	=====	=====	=====	=====	=====
28 Benzo (a) anthracene	228					Compound Not Detected.		
* 29 Chrysene-d12	240		12.963	12.963	(1.000)	300226	200.000	
30 Chrysene	228					Compound Not Detected.		
43 Total Benzofluoranthenes	252					Compound Not Detected.		
34 Benzo (a) pyrene	252					Compound Not Detected.		
* 35 Perylene-d12	264		14.677	14.688	(1.000)	240991	200.000	
37 Indeno (1,2,3-cd) pyrene	276					Compound Not Detected.		
§ 36 Dibenzo (a,h) anthracene-d14	292		16.241	16.241	(1.107)	188037	221.034	221
38 Dibenzo (a,h) anthracene	278					Compound Not Detected.		
39 Benzo (g,h,i) perylene	276					Compound Not Detected.		

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: sf76e.d
 Lab Smp Id: SF76E
 Analysis Type: SV
 Quant Type: ISTD
 Operator: yz
 Method File: /chem3/nt11.i/20110127.b/lowsim.m
 Misc Info: 11-1422

Calibration Date: 27-JAN-2011
 Calibration Time: 10:21
 Client Smp ID: MW-09-012111
 Level: LOW
 Sample Type: Groundwater

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	359076	4.82
11 Acenaphthene-d10	185015	92508	370030	212482	14.85
18 Phenanthrene-d10	320966	160483	641932	367347	14.45
29 Chrysene-d12	212759	106380	425518	300226	41.11
35 Perylene-d12	156605	78302	313210	240991	53.88

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.70	5.20	6.20	5.70	0.00
11 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.00
18 Phenanthrene-d10	9.68	9.18	10.18	9.68	0.00
29 Chrysene-d12	12.96	12.46	13.46	12.96	0.00
35 Perylene-d12	14.69	14.19	15.19	14.68	-0.08

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

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider

Sample Matrix: LIQUID

Lab Smp Id: SF76E

Level: LOW

Data Type: MS DATA

SpikeList File: waterlcs.spk

Sublist File: pnalnmn.sub

Method File: /chem3/nt11.i/20110127.b/lowsim.m

Misc Info: 11-1422

Client SDG: SF76

Fraction: SV

Client Smp ID: MW-09-012111

Operator: yz

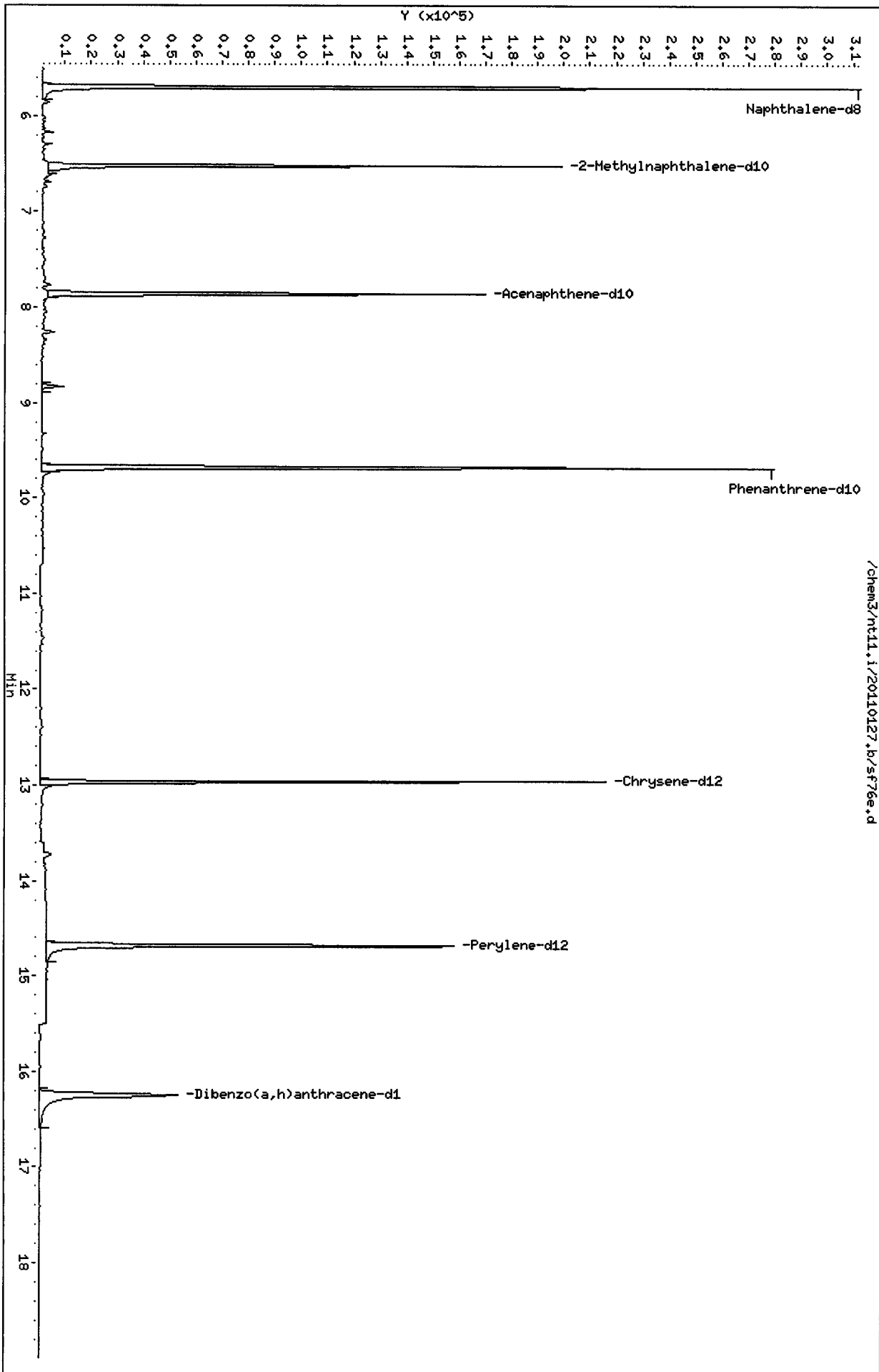
SampleType: SAMPLE

Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	300	194	64.64	31-109
\$ 36 Dibenzo(a,h) anthra	300	221	73.68	10-133

Data File: /chem3/nt11.i/20110127.b/sf76e.d
Date : 27-JAN-2011 15:51
Client ID: MW-09-012111
Sample Info: SF76E
Volume Injected (uL): 2.0
Column phase: ZB-Smsi

Instrument: nt11.i
Operator: yz
Column diameter: 0.25



CO-ELUTION SUMMARY FOR FILE - sf76e.d

Lab ID: SF76E, Method: lowsim.m, Instrument: nt11.i, Date: 27-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

LOW LEVEL PNAS BY SW8270D-SIM

Data file : /chem3/nt11.i/20110127.b/sf76f.d
 Lab Smp Id: SF76F Client Smp ID: MW-08-012111
 Inj Date : 27-JAN-2011 16:15
 Operator : yz Inst ID: nt11.i
 Smp Info : SF76F
 Misc Info : 11-1423
 Comment :
 Method : /chem3/nt11.i/20110127.b/lowsim.m
 Meth Date : 28-Jan-2011 09:12 yev Quant Type: ISTD
 Cal Date : 21-JAN-2011 17:28 Cal File: ic0121f.d
 Als bottle: 14
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalmn.sub
 Target Version: 3.50
 Processing Host: cserv3

yz 01/28/11

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
* 4 Naphthalene-d8	136	5.697	5.697	(1.000)	360926	200.000	
5 Naphthalene	128	5.720	5.720	(1.004)	12970	8.87835	8.88
\$ 6 2-Methylnaphthalene-d10	152	6.526	6.526	(1.145)	177538	205.108	205
7 2-Methylnaphthalene	142	Compound Not Detected.					
8 1-Methylnaphthalene	142	Compound Not Detected.					
10 Acenaphthylene	152	Compound Not Detected.					
* 11 Acenaphthene-d10	164	7.854	7.854	(1.000)	213888	200.000	
12 Acenaphthene	153	Compound Not Detected.					
14 Dibenzofuran	168	Compound Not Detected.					
15 Fluorene	166	Compound Not Detected.					
* 18 Phenanthrene-d10	188	9.678	9.677	(1.000)	374881	200.000	
19 Phenanthrene	178	Compound Not Detected.					
20 Anthracene	178	Compound Not Detected.					
24 Fluoranthene	202	Compound Not Detected.					
25 Pyrene	202	Compound Not Detected.					

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
28 Benzo (a) anthracene	228				Compound Not Detected.		
* 29 Chrysene-d12	240	12.963	12.963	(1.000)	302506	200.000	
30 Chrysene	228				Compound Not Detected.		
43 Total Benzofluoranthenes	252				Compound Not Detected.		
34 Benzo (a) pyrene	252				Compound Not Detected.		
* 35 Perylene-d12	264	14.677	14.688	(1.000)	245786	200.000	
37 Indeno (1,2,3-cd) pyrene	276				Compound Not Detected.		
\$ 36 Dibenzo (a,h) anthracene-d14	292	16.241	16.241	(1.107)	200206	230.747	231
38 Dibenzo (a,h) anthracene	278				Compound Not Detected.		
39 Benzo (g,h,i) perylene	276				Compound Not Detected.		

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i
 Lab File ID: sf76f.d
 Lab Smp Id: SF76F
 Analysis Type: SV
 Quant Type: ISTD
 Operator: yz
 Method File: /chem3/nt11.i/20110127.b/lowsim.m
 Misc Info: 11-1423

Calibration Date: 27-JAN-2011
 Calibration Time: 10:21
 Client Smp ID: MW-08-012111
 Level: LOW
 Sample Type: Groundwater

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	360926	5.36
11 Acenaphthene-d10	185015	92508	370030	213888	15.61
18 Phenanthrene-d10	320966	160483	641932	374881	16.80
29 Chrysene-d12	212759	106380	425518	302506	42.18
35 Perylene-d12	156605	78302	313210	245786	56.95

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.70	5.20	6.20	5.70	0.00
11 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.00
18 Phenanthrene-d10	9.68	9.18	10.18	9.68	0.00
29 Chrysene-d12	12.96	12.46	13.46	12.96	0.00
35 Perylene-d12	14.69	14.19	15.19	14.68	-0.08

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

Analytical Resources, Inc.

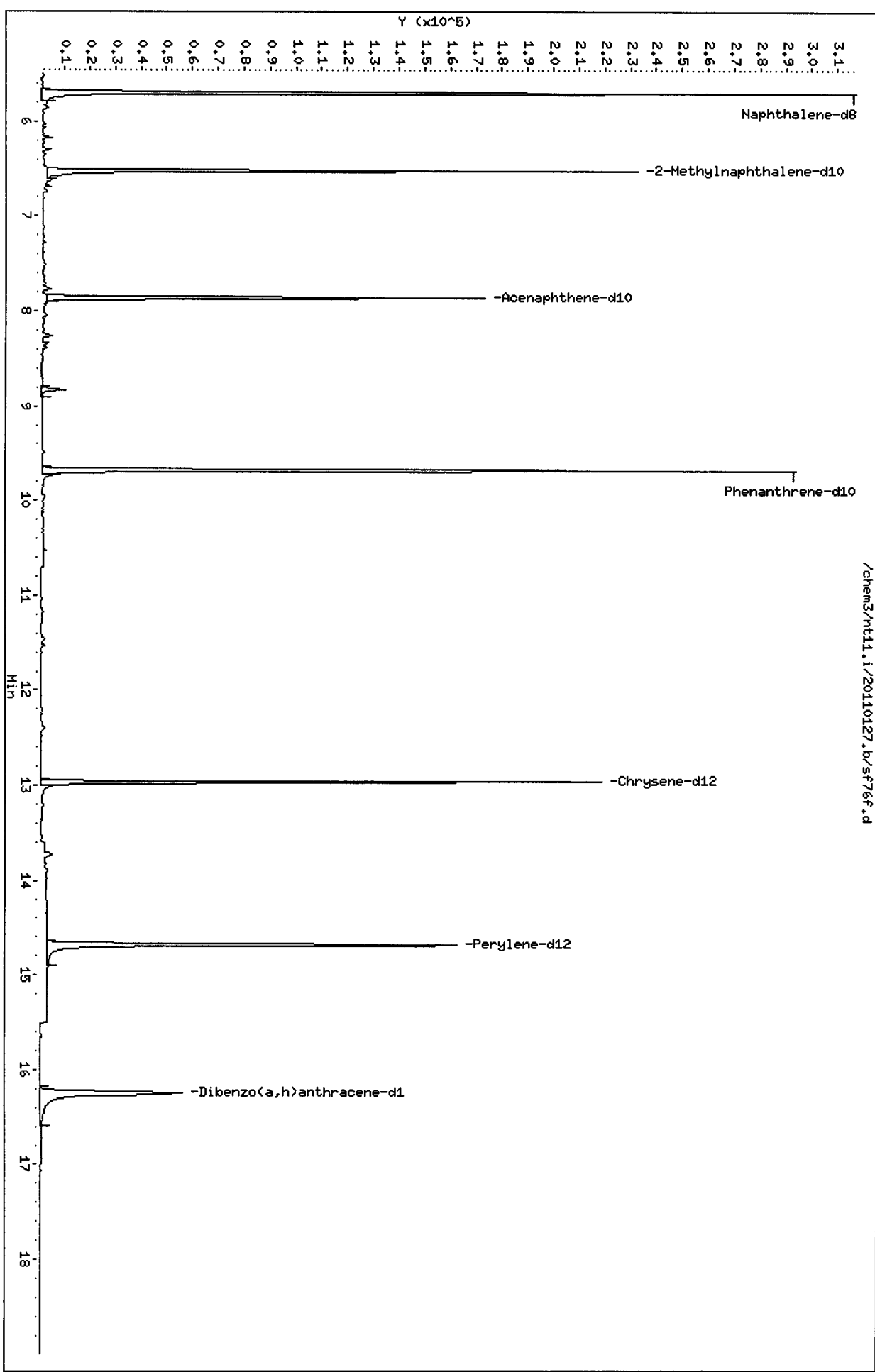
RECOVERY REPORT

Client Name: Floyd-Snyder	Client SDG: SF76
Sample Matrix: LIQUID	Fraction: SV
Lab Smp Id: SF76F	Client Smp ID: MW-08-012111
Level: LOW	Operator: yz
Data Type: MS DATA	SampleType: SAMPLE
SpikeList File: waterlcs.spk	Quant Type: ISTD
Sublist File: pna1mn.sub	
Method File: /chem3/nt11.i/20110127.b/lowsim.m	
Misc Info: 11-1423	

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	300	205	68.37	31-109
\$ 36 Dibenzo(a,h)anthra	300	231	76.92	10-133

Data File: /chem3/nt11.i/20110127.b/sf76f.d
Date : 27-JAN-2011 16:15
Client ID: MW-08-012111
Sample Info: SF76f
Volume Injected (uL): 2.0
Column phase: ZB-Sms1

Instrument: nt11.i
Operator: yz
Column diameter: 0.25



CO-ELUTION SUMMARY FOR FILE - sf76f.d

Lab ID: SF76F, Method: lowsim.m, Instrument: nt11.i, Date: 27-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

YE 01/28/11

Data file : /chem3/nt11.i/20110127.b/sf76g.d
 Lab Smp Id: SF76G Client Smp ID: MW-01-012111
 Inj Date : 27-JAN-2011 16:38
 Operator : yz Inst ID: nt11.i
 Smp Info : SF76G
 Misc Info : 11-1424
 Comment :
 Method : /chem3/nt11.i/20110127.b/lowsim.m
 Meth Date : 28-Jan-2011 09:35 yev Quant Type: ISTD
 Cal Date : 21-JAN-2011 17:28 Cal File: ic0121f.d
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalmn.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ng/mL)	FINAL (ug/L)
* 4 Naphthalene-d8	136	5.697	5.697	(1.000)	528295	200.000	
5 Naphthalene	128	5.720	5.720	(1.004)	6675092	3121.70	3120
\$ 6 2-Methylnaphthalene-d10	152	6.526	6.526	(1.145)	203078	160.286	160
7 2-Methylnaphthalene	142	6.560	6.560	(1.151)	726205	592.577	593
8 1-Methylnaphthalene	142	6.687	6.687	(1.174)	949564	766.622	767
10 Acenaphthylene	152	7.666	7.666	(0.976)	31883	20.8615	20.9
* 11 Acenaphthene-d10	164	7.854	7.854	(1.000)	235790	200.000	
12 Acenaphthene	153	7.894	7.894	(1.005)	138199	132.275	132
14 Dibenzofuran	168	8.095	8.095	(1.031)	122607	79.2065	79.2
15 Fluorene	166	8.511	8.511	(1.084)	196950	189.437	189
* 18 Phenanthrene-d10	188	9.677	9.677	(1.000)	383127	200.000	
19 Phenanthrene	178	9.704	9.704	(1.003)	158684	102.637	103
20 Anthracene	178	9.758	9.758	(1.008)	72254	48.4543	48.5
24 Fluoranthene	202	11.179	11.179	(1.155)	84668	58.0444	58.0
25 Pyrene	202	11.461	11.461	(0.884)	140443	70.5512	70.6

Compounds	QUANT SIG		RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
	MASS						ON-COLUMN	FINAL
=====	====		==	=====	=====	=====	(ng/mL)	(ug/L)
28 Benzo (a) anthracene	228		12.949	12.949	(0.999)	22504	17.3657 ✓	17.4
* 29 Chrysene-d12	240		12.963	12.963	(1.000)	321480	200.000	
30 Chrysene	228		12.989	12.989	(1.002)	48927	25.9026 <i>Q</i>	25.9 (M)
43 Total Benzofluoranthenes	252		14.216	14.239	(0.968)	46814	30.6170 ✓	30.6 (M)
34 Benzo (a) pyrene	252		14.608	14.608	(0.994)	26773	21.3078 ✓	21.3 (M)
* 35 Perylene-d12	264		14.688	14.688	(1.000)	267521	200.000	
37 Indeno (1,2,3-cd) pyrene	276		16.281	16.281	(1.108)	18847	12.4123 ✓	12.4
\$ 36 Dibenzo (a,h) anthracene-d14	292		16.241	16.241	(1.106)	247123	261.681 ✓	262
38 Dibenzo (a,h) anthracene	278		16.295	16.295	(1.109)	9000	8.00406 <i>J</i>	8.00
39 Benzo (g,h,i) perylene	276		16.751	16.751	(1.140)	24023	16.9119 ✓	16.9

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i	Calibration Date: 27-JAN-2011
Lab File ID: sf76g.d	Calibration Time: 10:21
Lab Smp Id: SF76G	Client Smp ID: MW-01-012111
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: Groundwater
Operator: yz	
Method File: /chem3/nt11.i/20110127.b/lowsim.m	
Misc Info: 11-1424	

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	528295	54.22
11 Acenaphthene-d10	185015	92508	370030	235790	27.44
18 Phenanthrene-d10	320966	160483	641932	383127	19.37
29 Chrysene-d12	212759	106380	425518	321480	51.10
35 Perylene-d12	156605	78302	313210	267521	70.83

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.70	5.20	6.20	5.70	0.00
11 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.00
18 Phenanthrene-d10	9.68	9.18	10.18	9.68	0.00
29 Chrysene-d12	12.96	12.46	13.46	12.96	0.00
35 Perylene-d12	14.69	14.19	15.19	14.69	0.00

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

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider	Client SDG: SF76
Sample Matrix: LIQUID	Fraction: SV
Lab Smp Id: SF76G	Client Smp ID: MW-01-012111
Level: LOW	Operator: yz
Data Type: MS DATA	SampleType: SAMPLE
SpikeList File: waterlcs.spk	Quant Type: ISTD
Sublist File: pnalmn.sub	
Method File: /chem3/nt11.i/20110127.b/lowsim.m	
Misc Info: 11-1424	

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	300	160	53.43	31-109
\$ 36 Dibenzo(a,h)anthra	300	262	87.23	10-133

Data File: /chem3/nt11.i/20110127.b/sf76g.d

Date : 27-JAN-2011 16:38

Client ID: MW-01-012111

Sample Info: SF76G

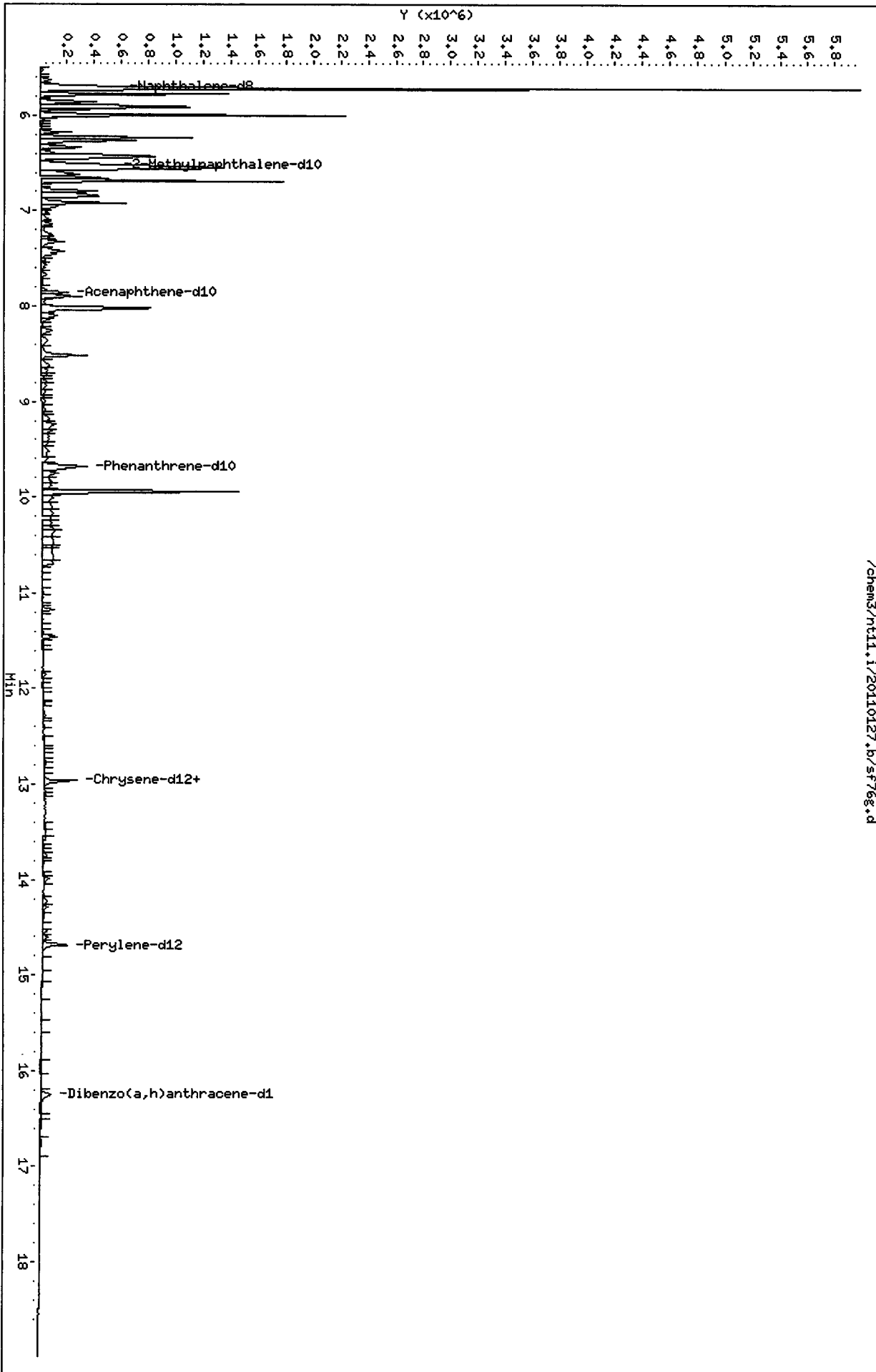
Volume Injected (uL): 2.0

Column phase: ZB-Sms1

Instrument: nt11.i

Operator: yz

Column diameter: 0.25



Date : 27-JAN-2011 16:38

Client ID: MW-01-012111

Instrument: nt11.i

Sample Info: SF76G

Volume Injected (uL): 2.0

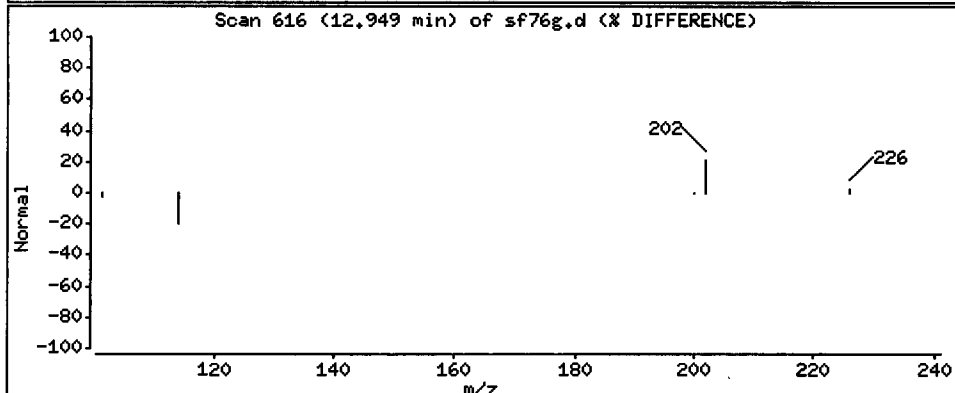
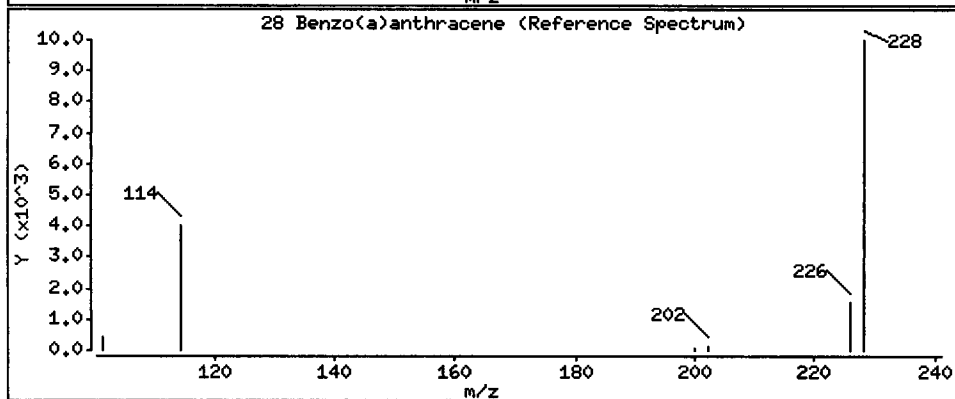
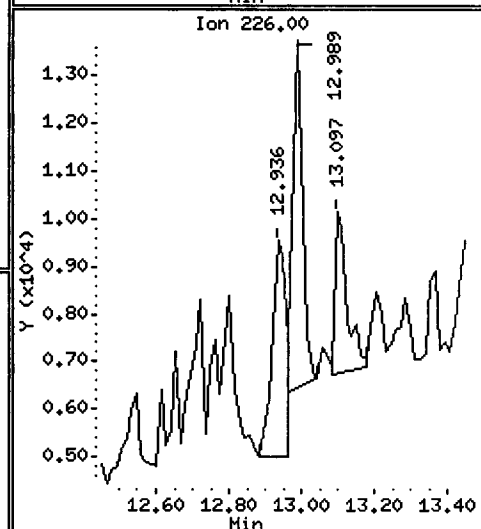
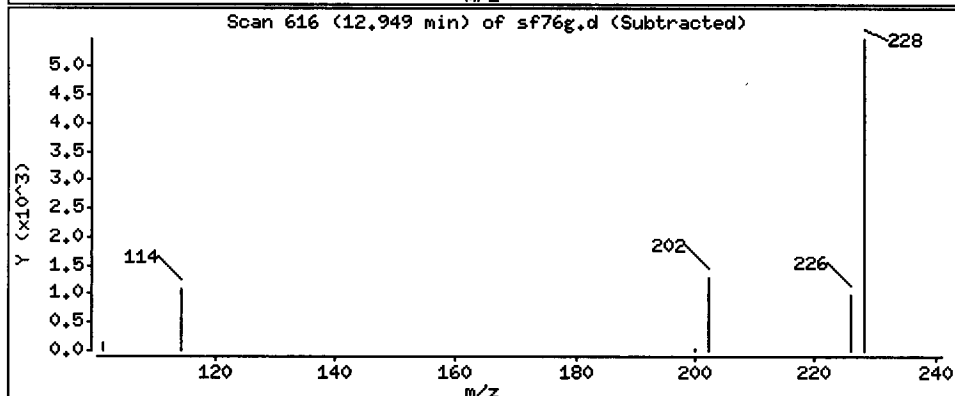
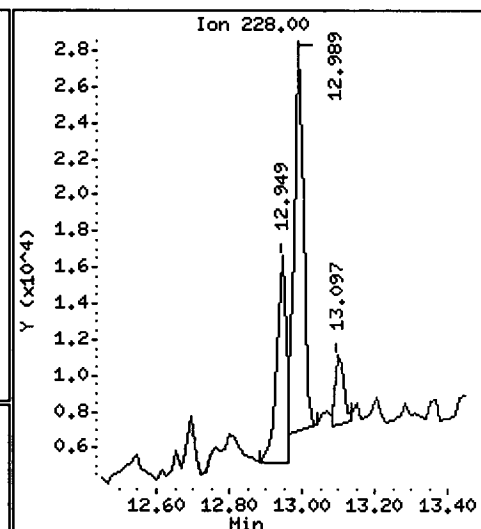
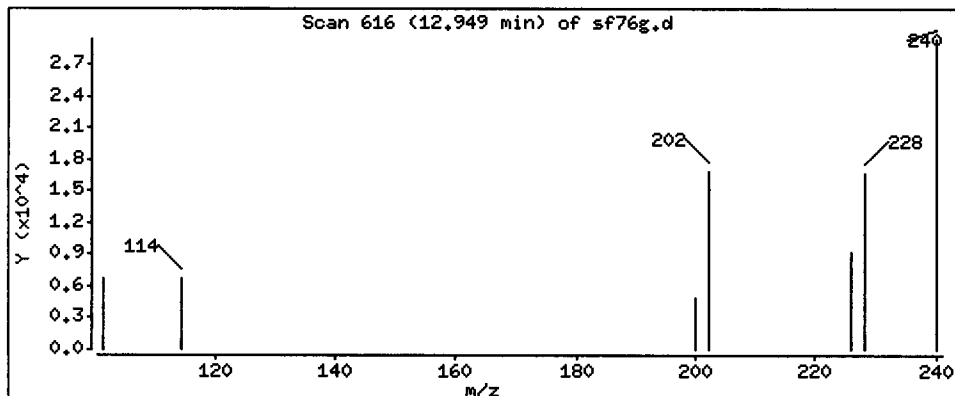
Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

28 Benzo(a)anthracene

Concentration: 17.4 ug/L



Date : 27-JAN-2011 16:38

Client ID: MW-01-012111

Instrument: nt11.i

Sample Info: SF76G

Volume Injected (uL): 2.0

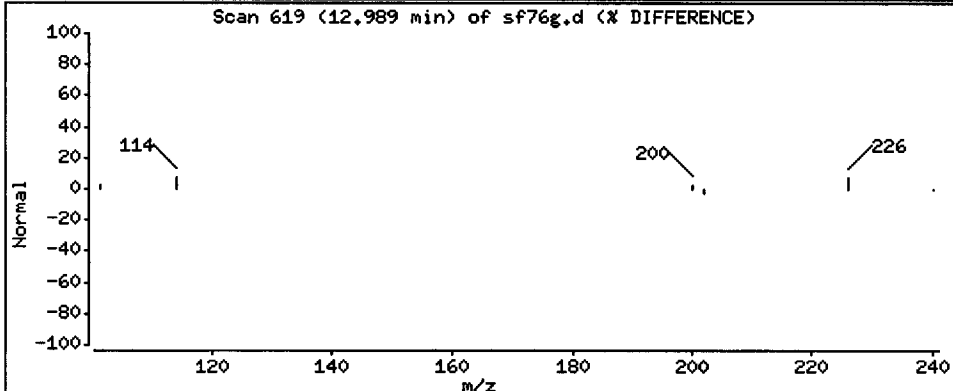
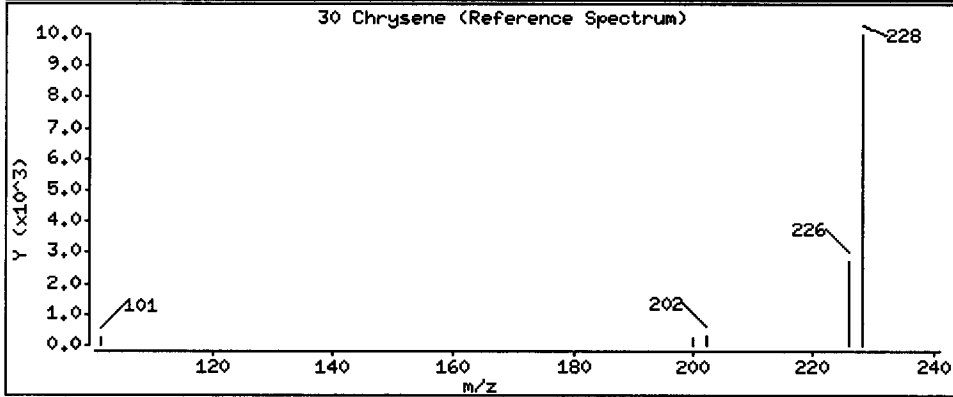
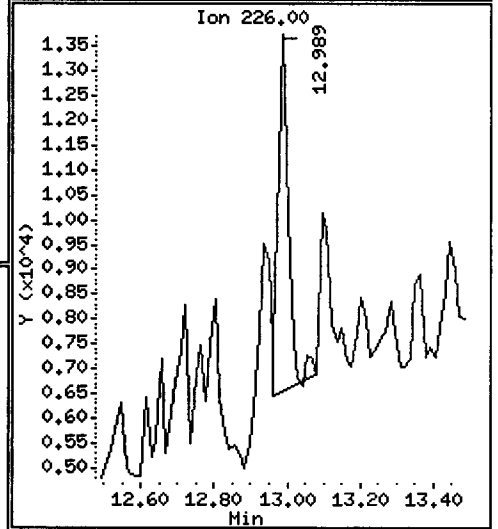
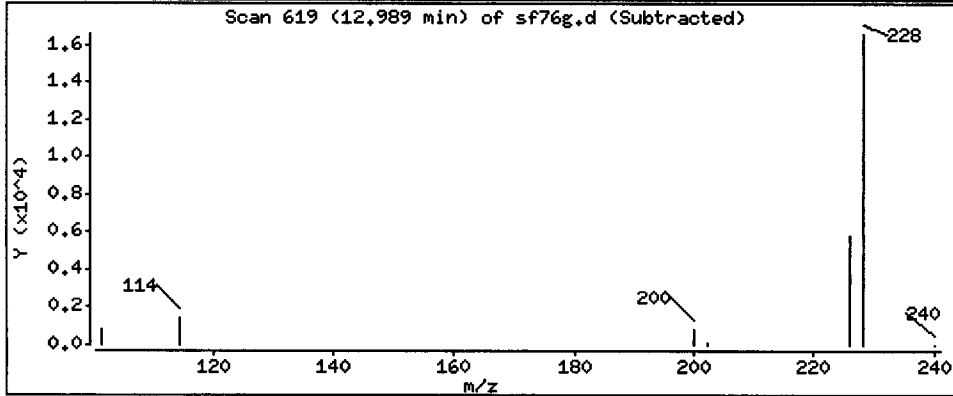
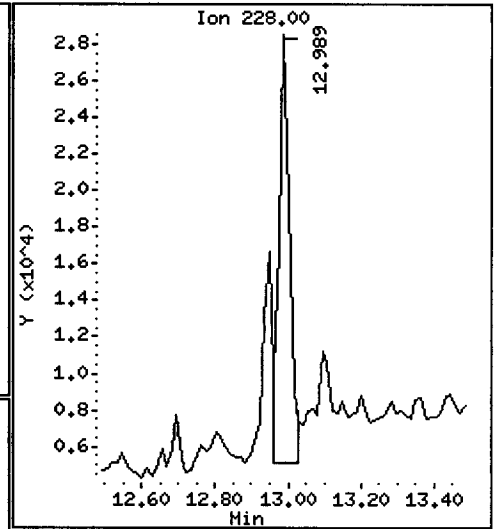
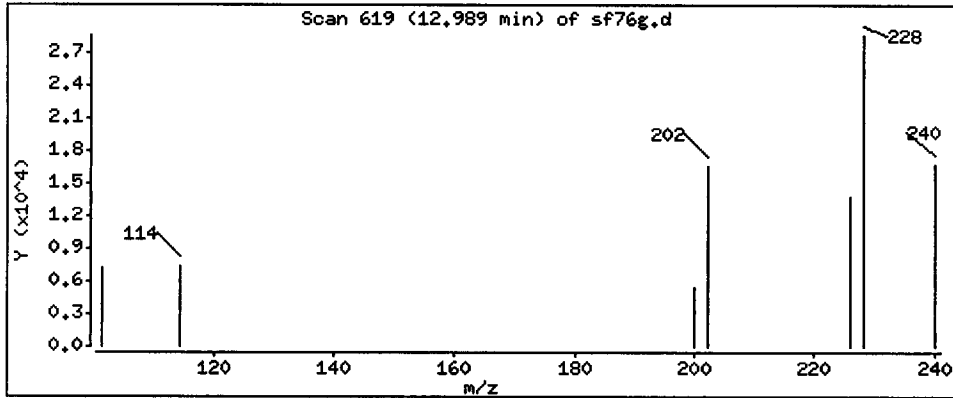
Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

30 Chrysene

Concentration: 25.9 ug/L



Date : 27-JAN-2011 16:38

Client ID: MW-01-012111

Instrument: nt11.i

Sample Info: SF76G

Volume Injected (uL): 2.0

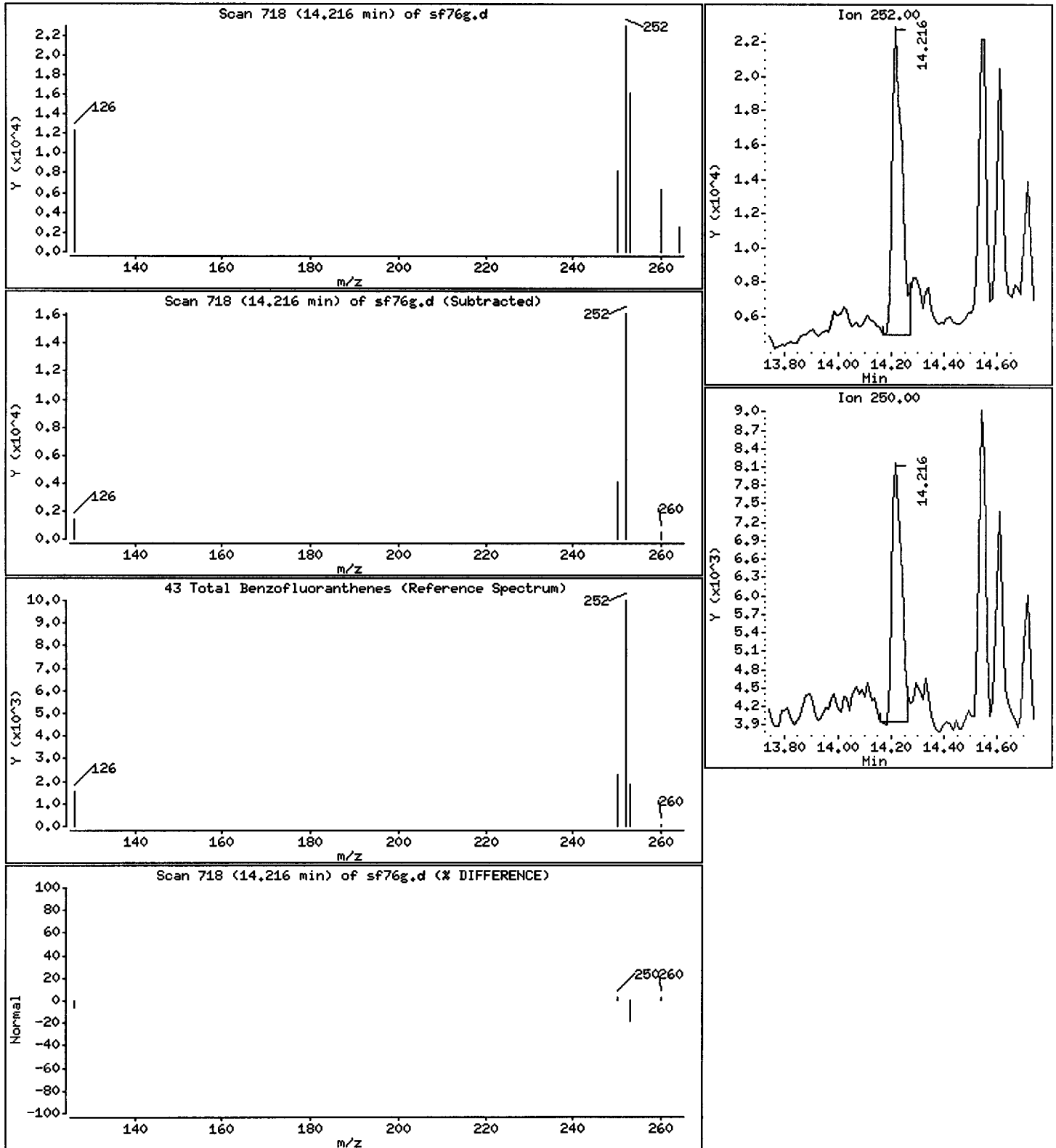
Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

43 Total Benzofluoranthenes

Concentration: 30.6 ug/L



Date : 27-JAN-2011 16:38

Client ID: MW-01-012111

Instrument: nt11.i

Sample Info: SF76G

Volume Injected (uL): 2.0

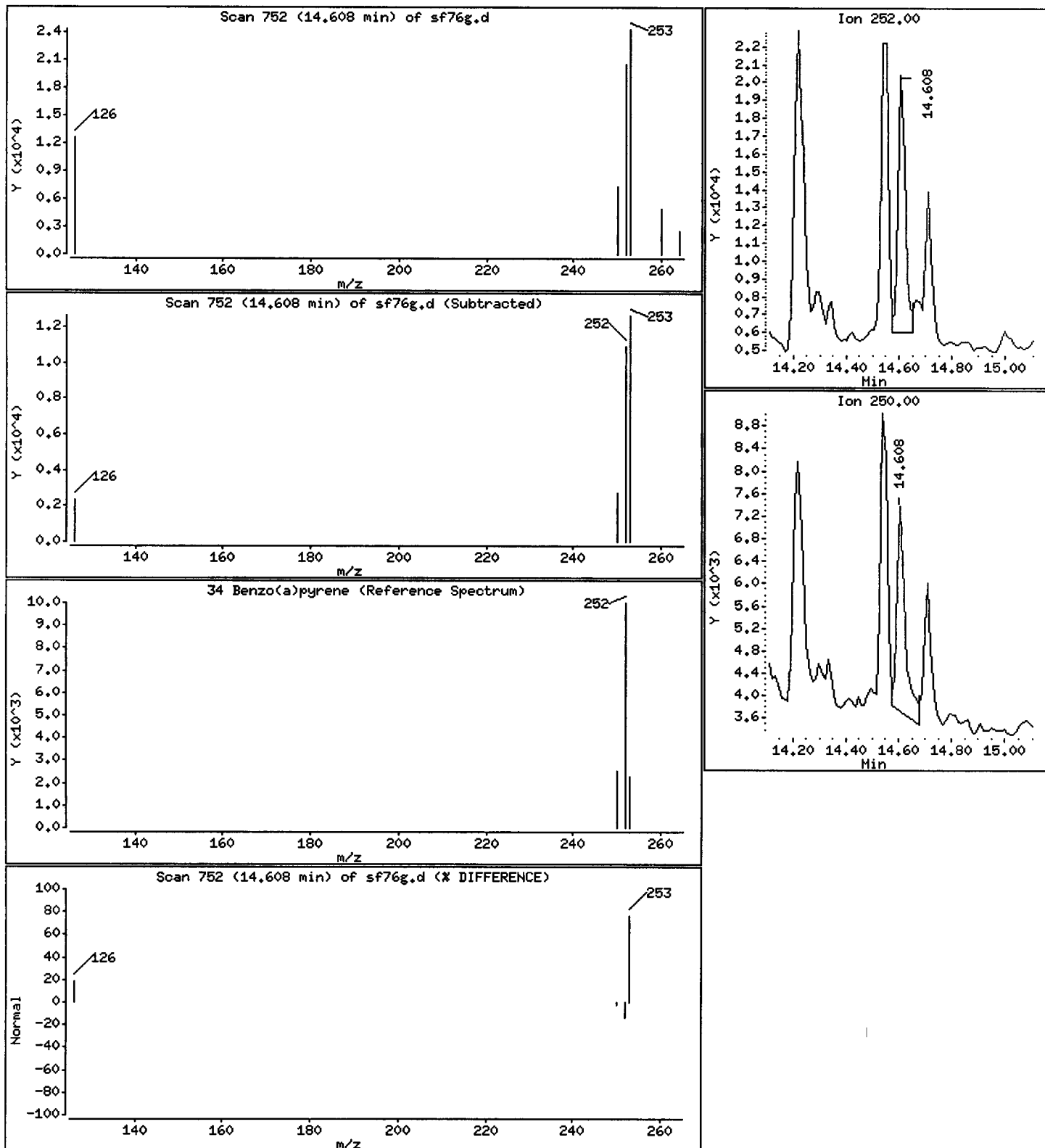
Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

34 Benzo(a)pyrene

Concentration: 21.3 ug/L



Date : 27-JAN-2011 16:38

Client ID: MW-01-012111

Instrument: nt11.i

Sample Info: SF76G

Volume Injected (uL): 2.0

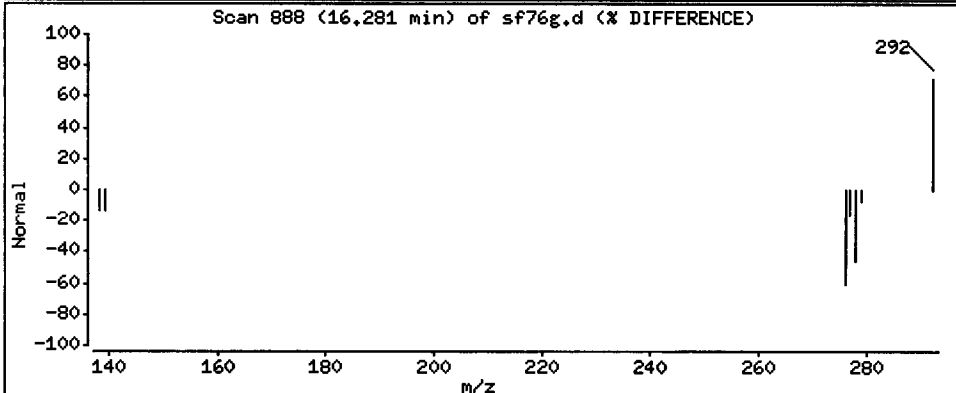
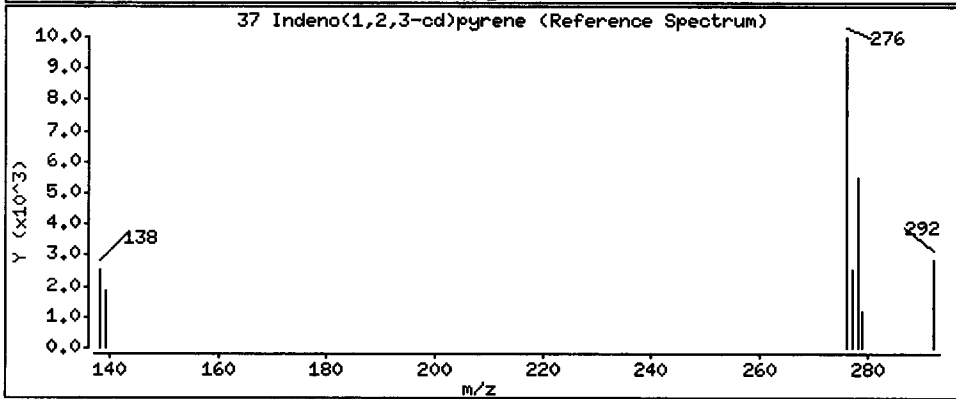
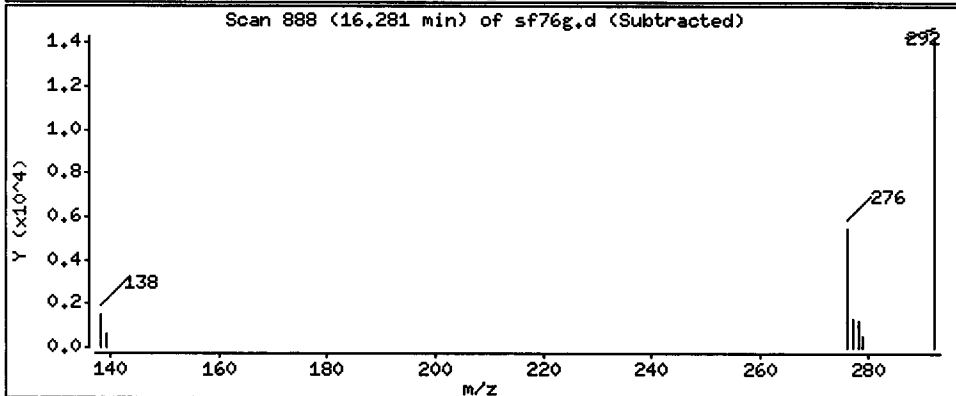
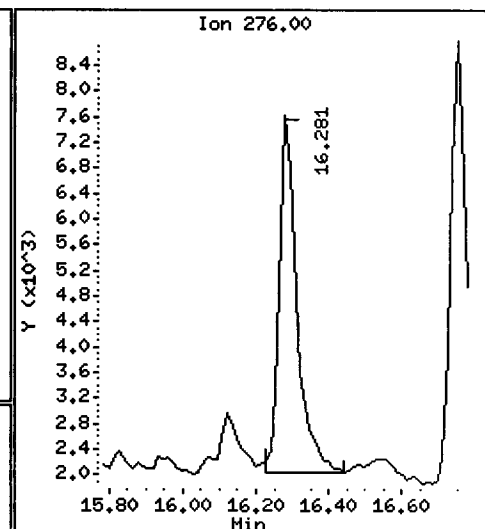
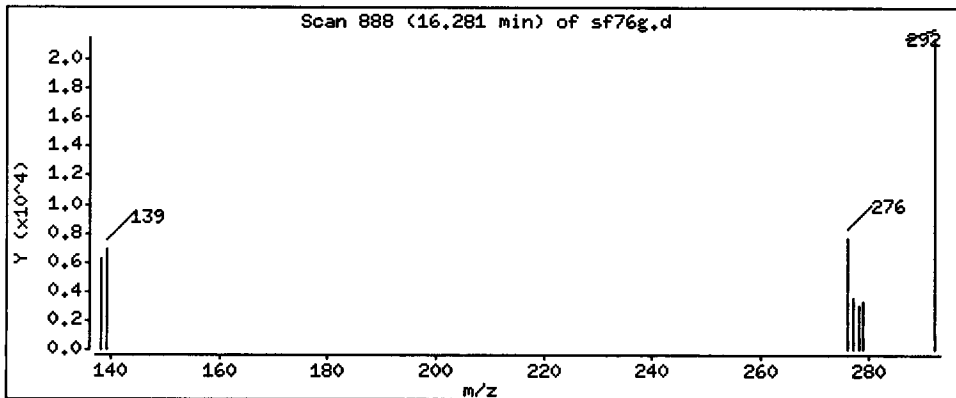
Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

37 Indeno(1,2,3-cd)pyrene

Concentration: 12.4 ug/L



Date : 27-JAN-2011 16:38

Client ID: MW-01-012111

Instrument: nt11.i

Sample Info: SF76G

Volume Injected (uL): 2.0

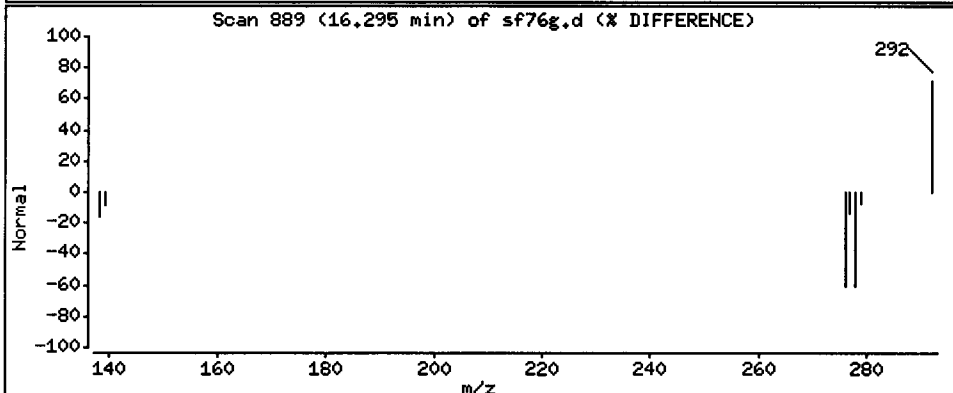
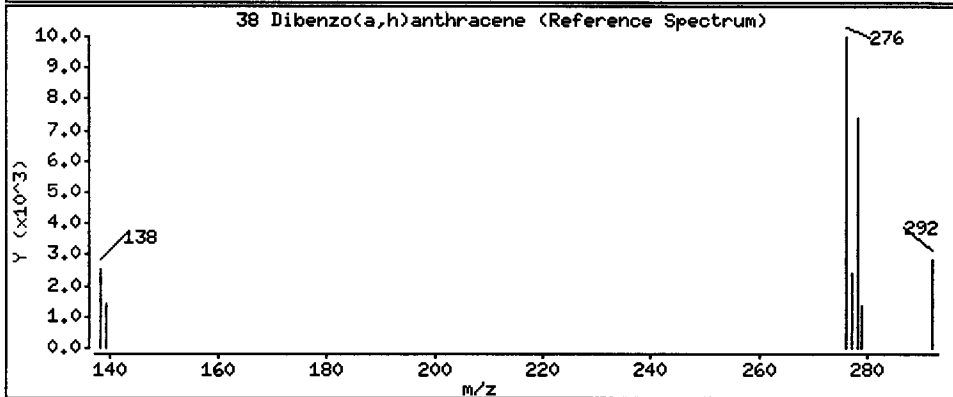
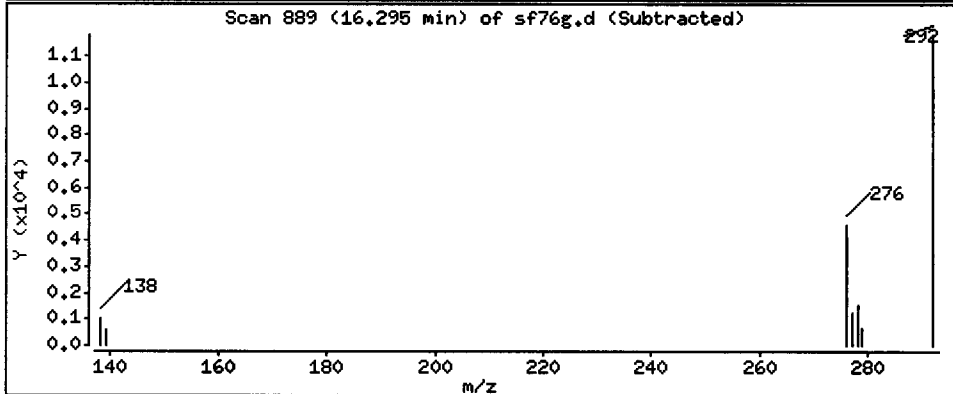
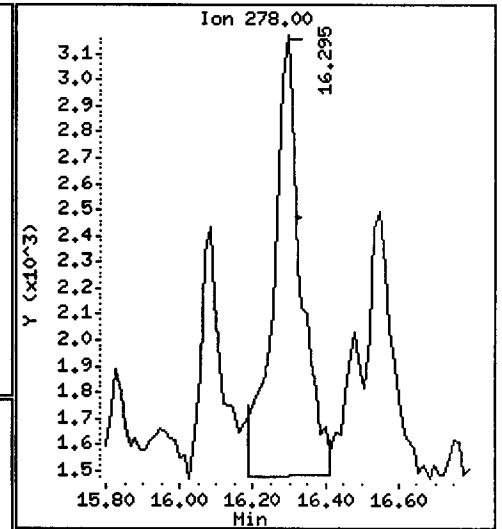
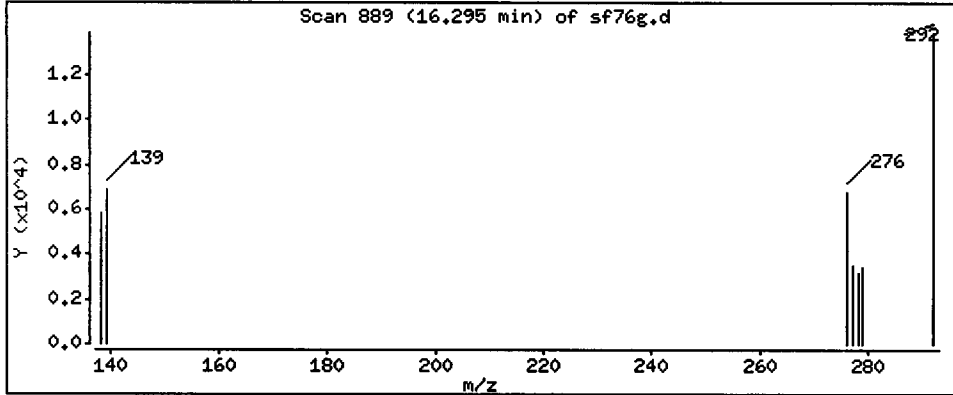
Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

38 Dibenzo(a,h)anthracene

Concentration: 8.00 ug/L



Date : 27-JAN-2011 16:38

Client ID: MW-01-012111

Instrument: nt11.i

Sample Info: SF76G

Volume Injected (uL): 2.0

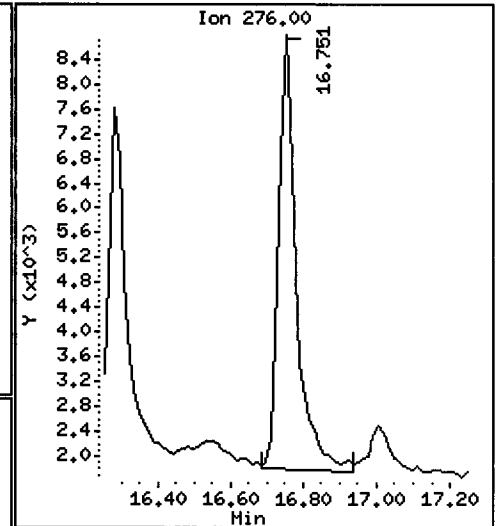
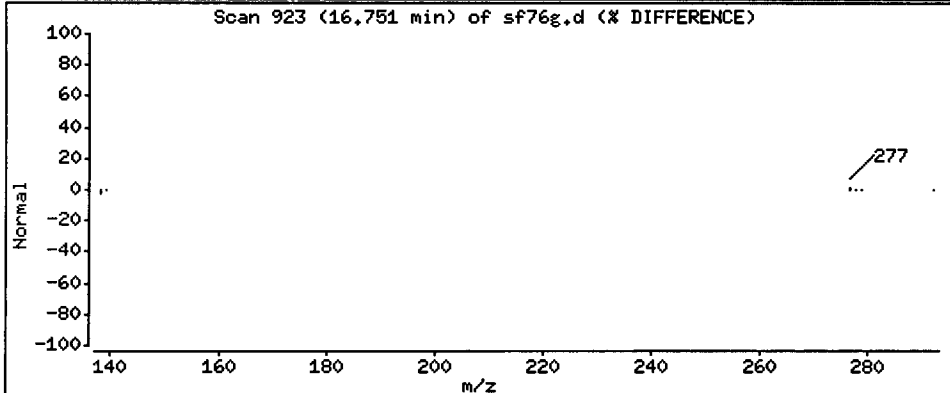
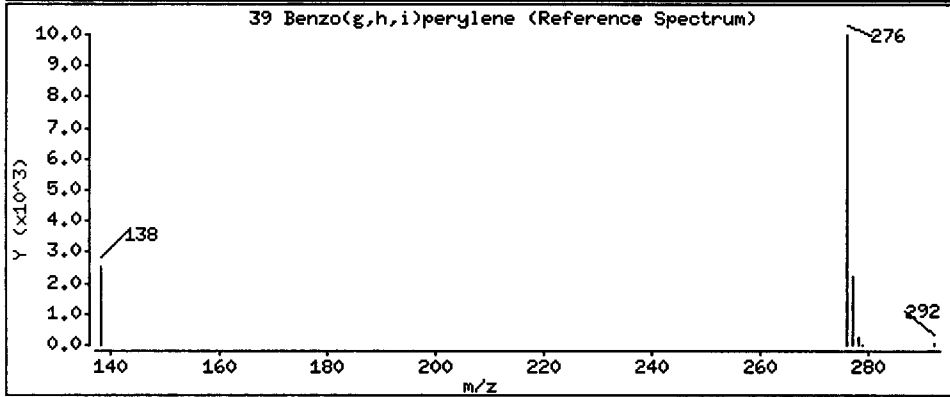
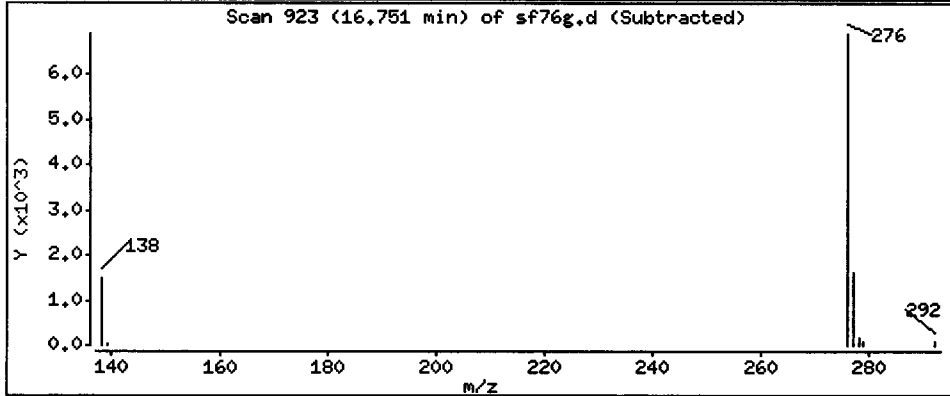
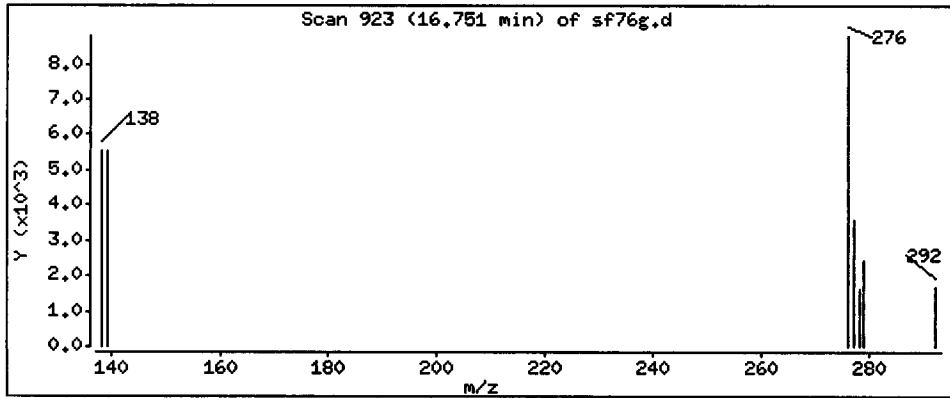
Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

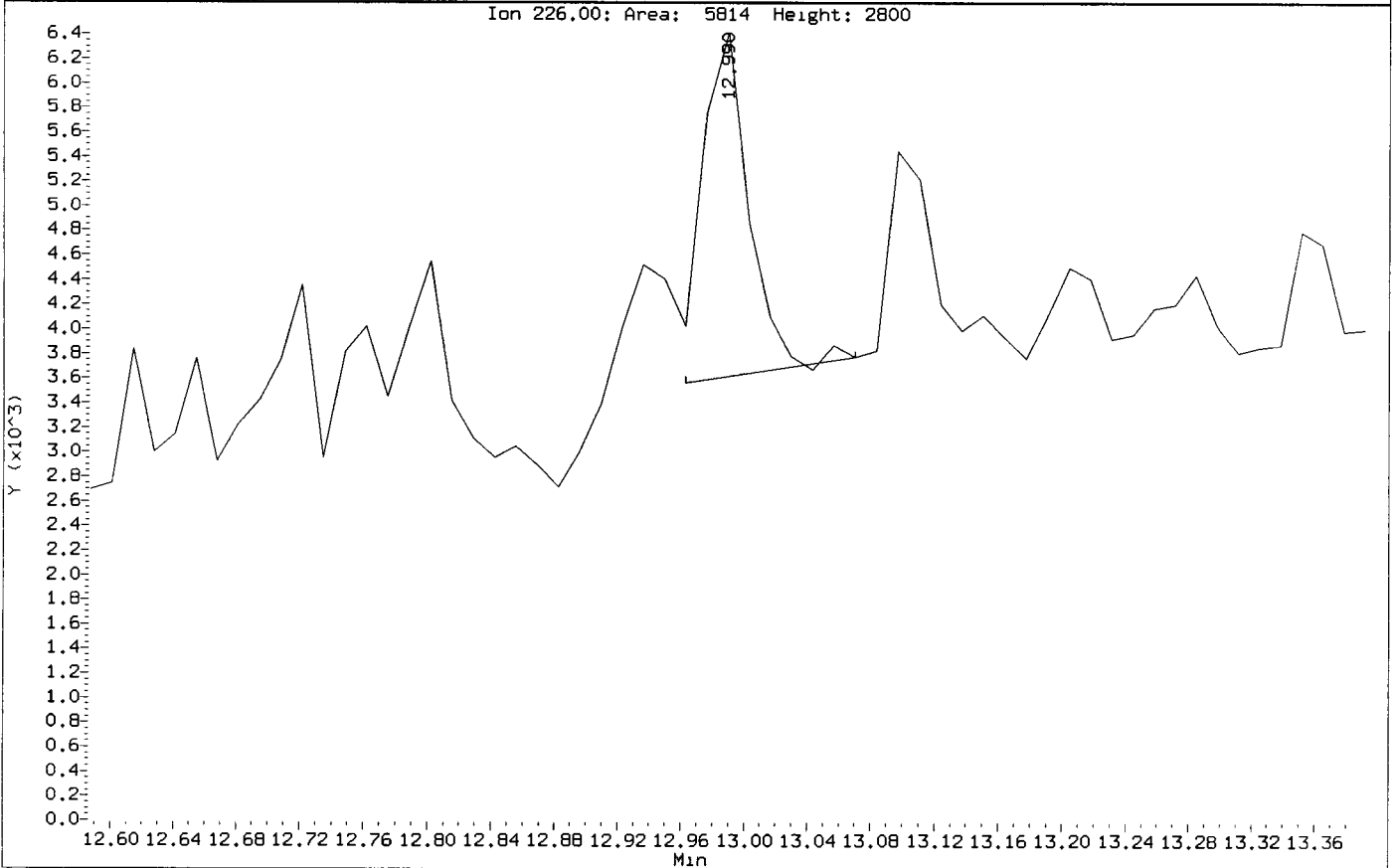
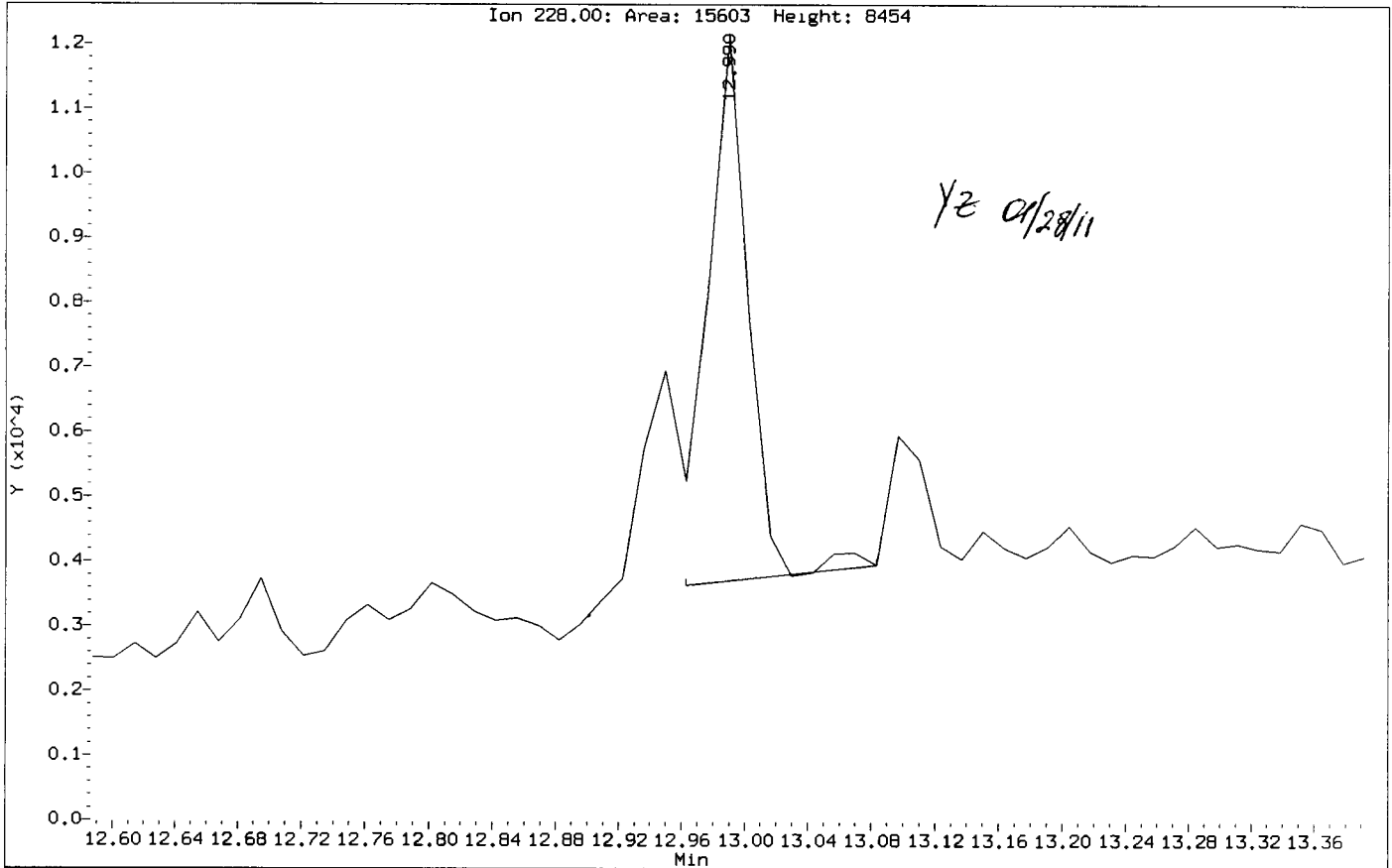
39 Benzo(g,h,i)perylene

Concentration: 16.9 ug/L



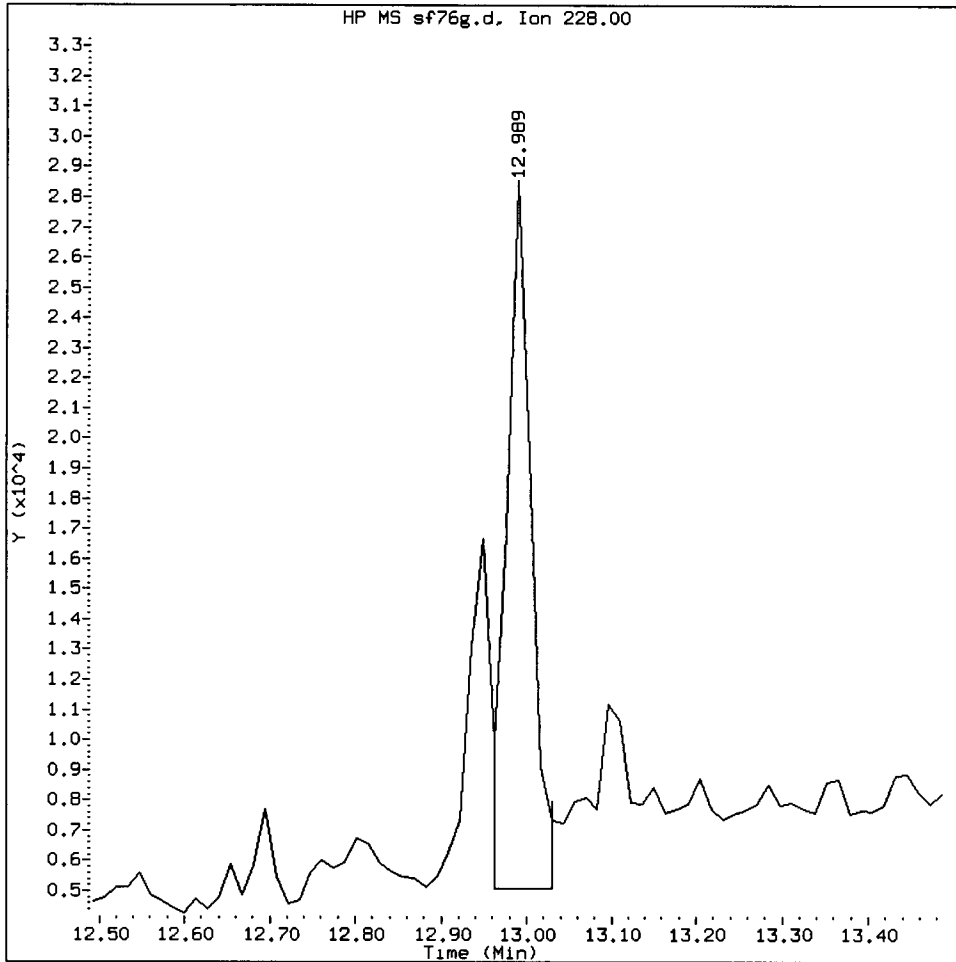
Data File: /chem3/nt11.1/20110127.b/sf76h.d
Injection Date: 27-JAN-2011 17:02
Instrument: nt11.1
Client Sample ID: MW-01-012111-D

Compound: Chrysene
CAS Number:



SF76G, /chem3/nt11.i/20110127.b/sf76g.d

Chrysene Amount: 25.90 Area: 48927



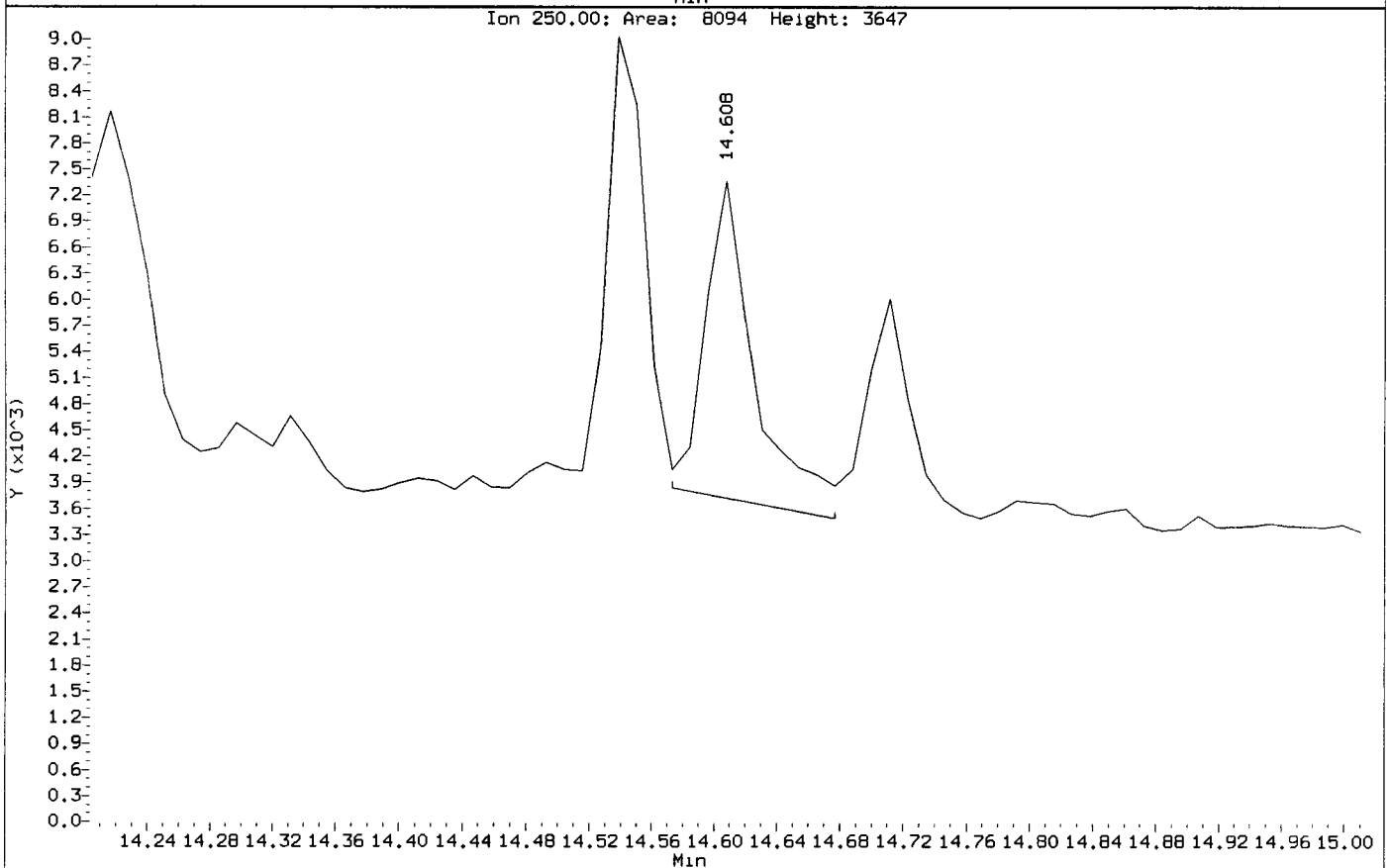
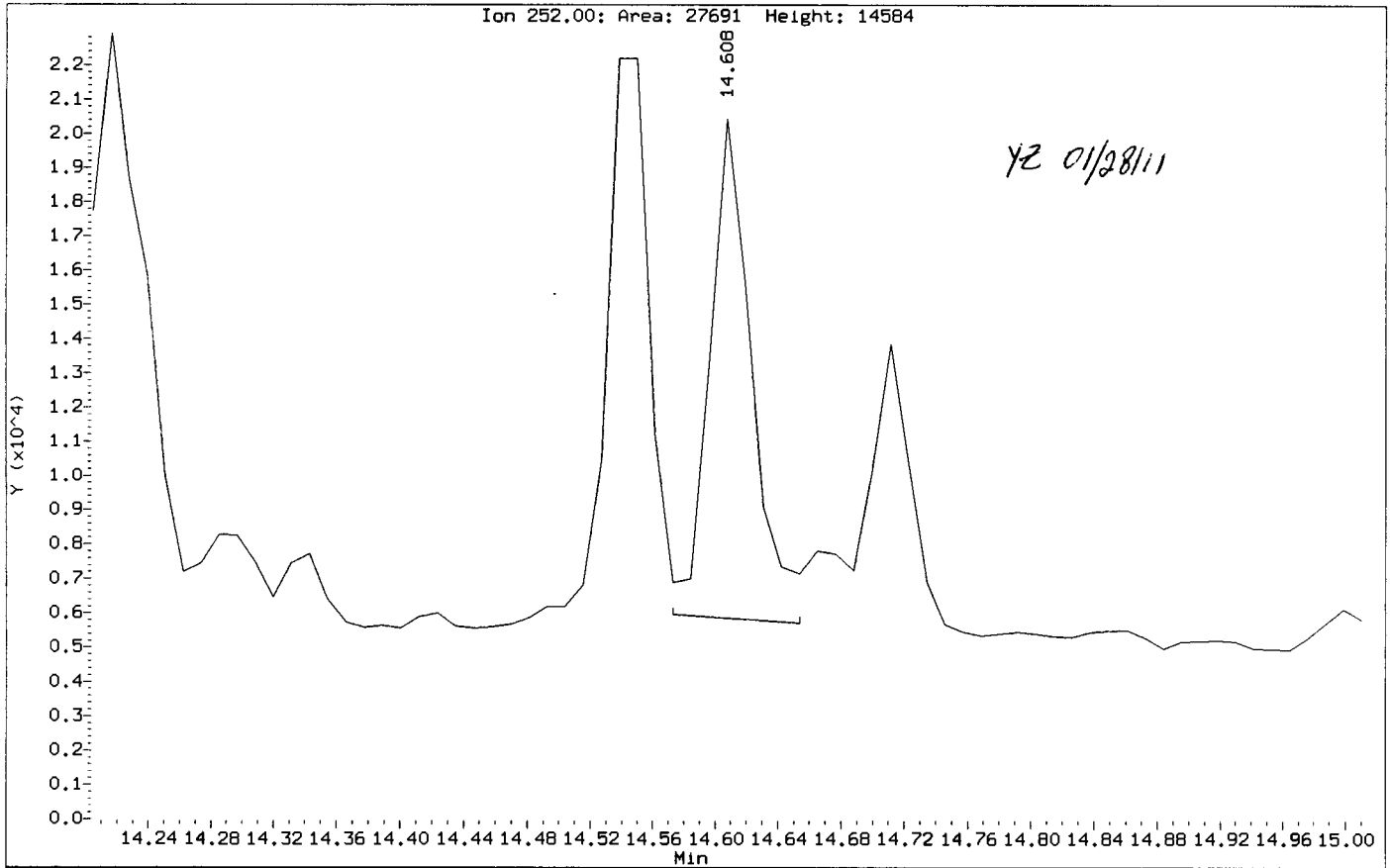
MANUAL INTEGRATION for Chrysene

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

Analyst: Y2 Date: 01/28/11

Data File: /chem3/nt11.1/20110127.b/sf76g.d
Injection Date: 27-JAN-2011 16:38
Instrument: nt11.1
Client Sample ID: MW-01-012111

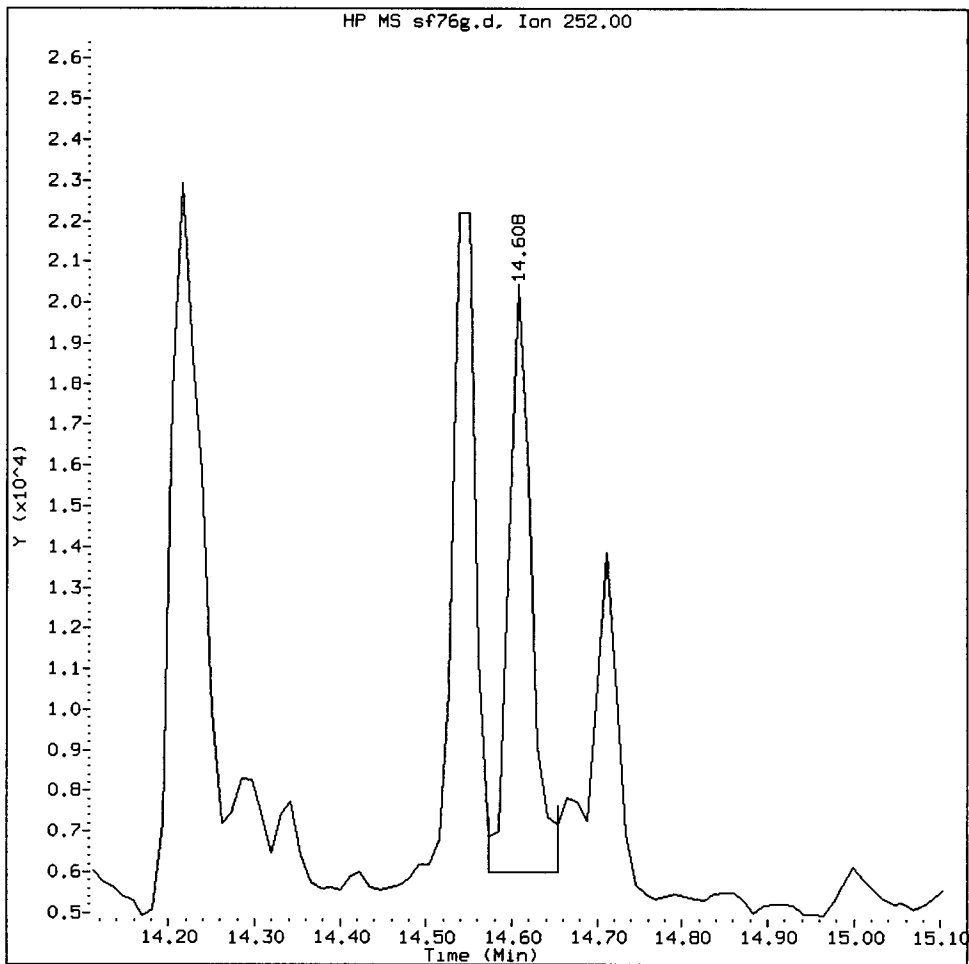
Compound: Benzo(a)pyrene
CAS Number:



SF26:00918

SF76G, /chem3/nt11.i/20110127.b/sf76g.d

Benzo(a)pyrene Amount: 21.31 Area: 26773



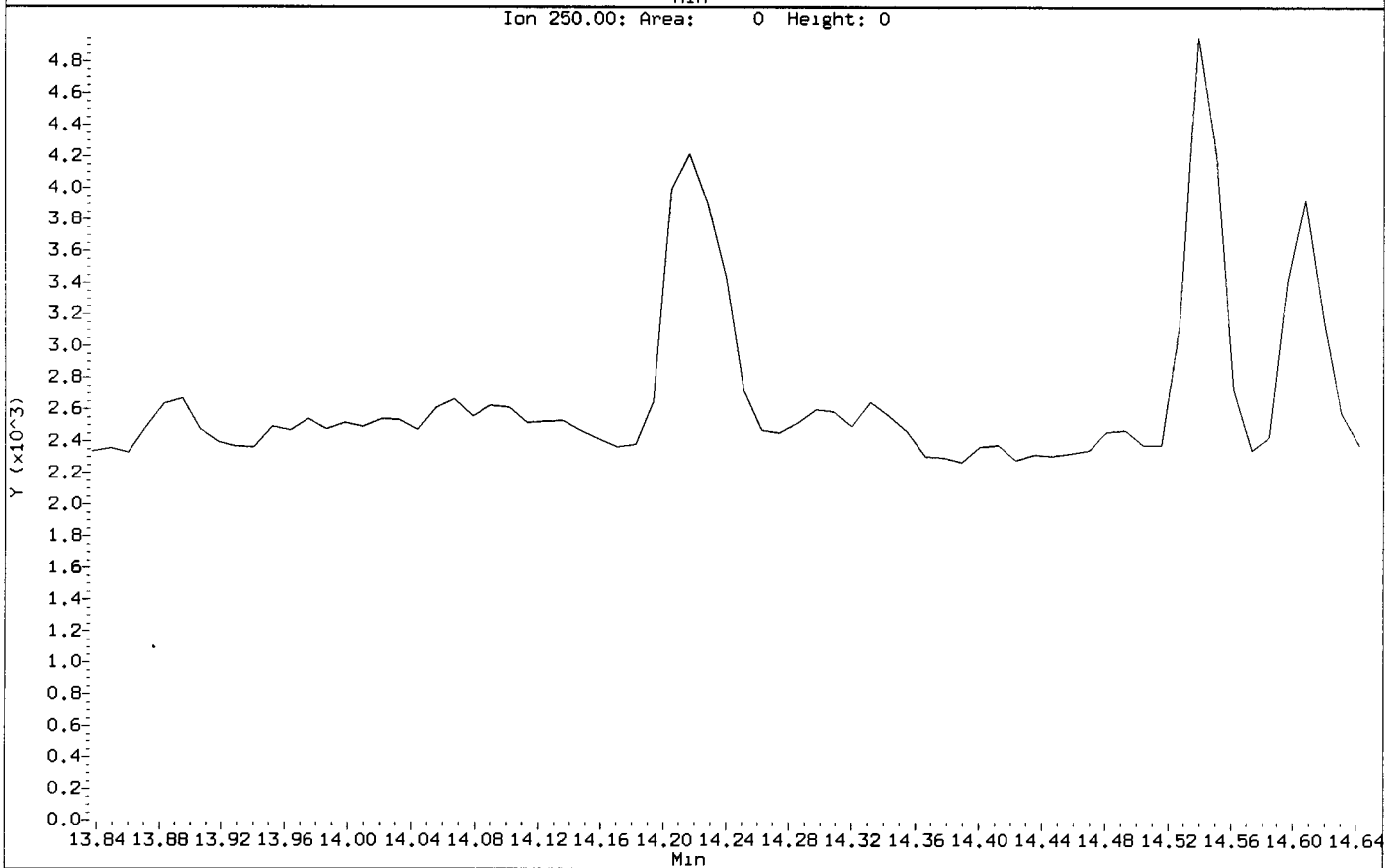
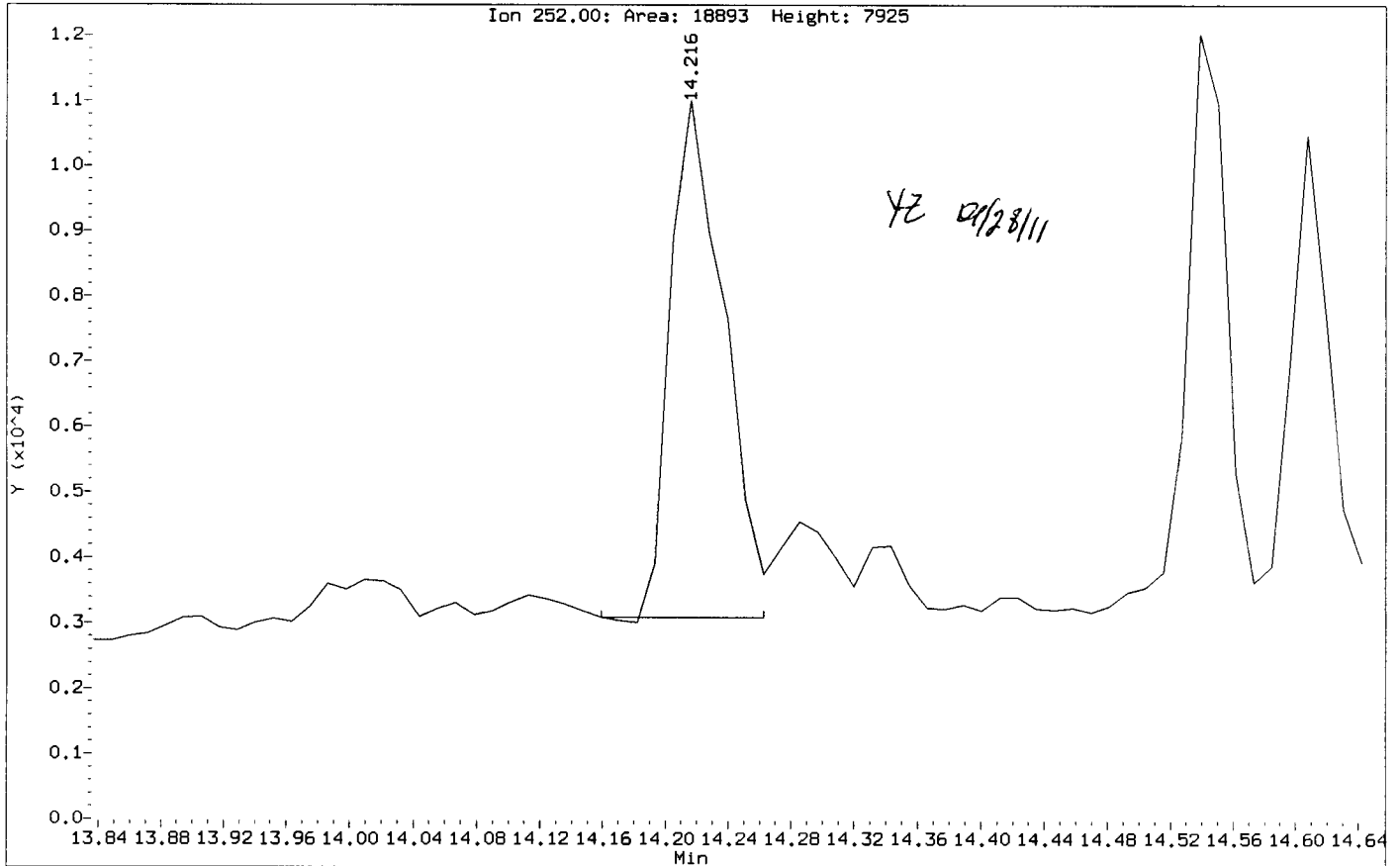
MANUAL INTEGRATION for Benzo(a)pyrene

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

Analyst: YZ Date: 01/28/11

Data File: /chem3/nt11.1/20110127.b/sf76h.d
Injection Date: 27-JAN-2011 17:02
Instrument: nt11.1
Client Sample ID: MW-01-012111-D

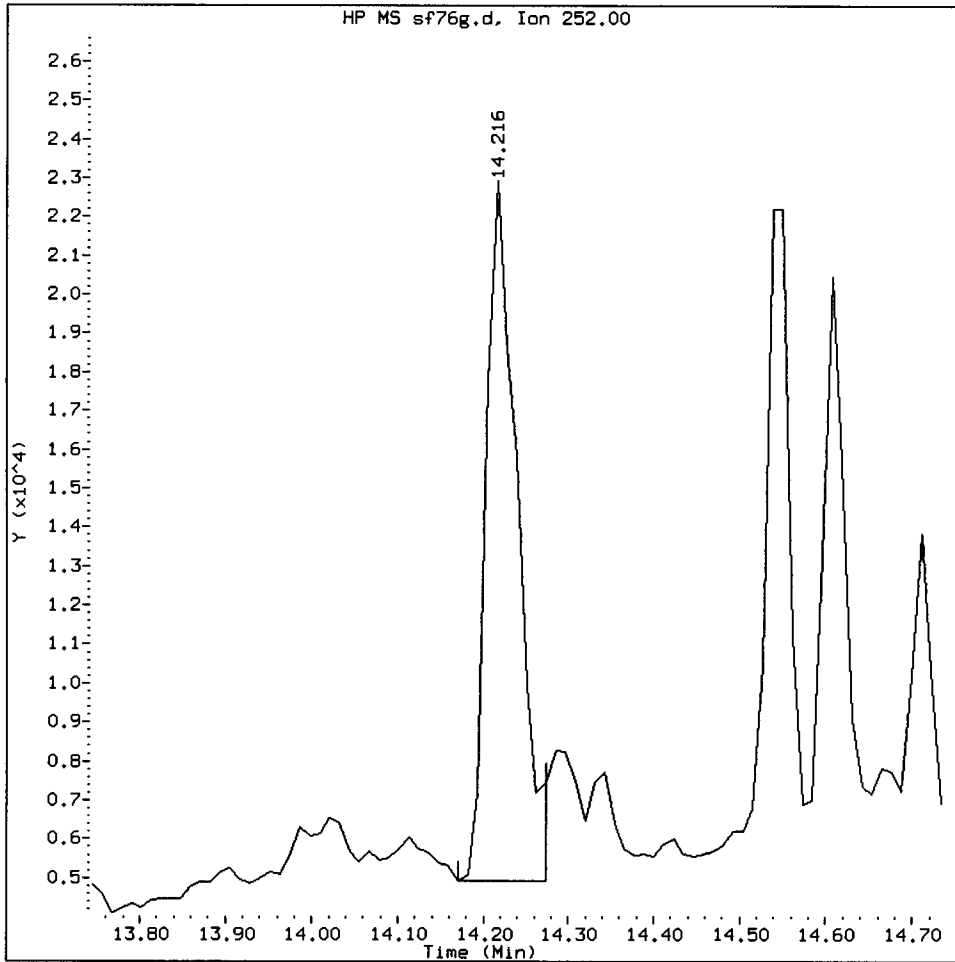
Compound: Total Benzofluoranthenes
CAS Number:



SF26:00520

SF76G, /chem3/nt11.i/20110127.b/sf76g.d

Total Benzofluoranthenes Amount: 30.62 Area: 46814



MANUAL INTEGRATION for Total Benzofluoranthenes

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

Analyst: _____ Date: _____

CO-ELUTION SUMMARY FOR FILE - sf76g.d

Lab ID: SF76G, Method: lowsim.m, Instrument: nt11.i, Date: 27-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Analytical Resources, Inc.

yz 01/28/11

LOW LEVEL PNAs BY SW8270D-SIM

Data file : /chem3/nt11.i/20110127.b/sf76h.d
 Lab Smp Id: SF76H Client Smp ID: MW-01-012111-D
 Inj Date : 27-JAN-2011 17:02
 Operator : yz Inst ID: nt11.i
 Smp Info : SF76H
 Misc Info : 11-1425
 Comment :
 Method : /chem3/nt11.i/20110127.b/lowsim.m
 Meth Date : 28-Jan-2011 09:35 yev Quant Type: ISTD
 Cal Date : 21-JAN-2011 17:28 Cal File: ic0121f.d
 Als bottle: 16
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pnalmn.sub
 Target Version: 3.50
 Processing Host: cserv3

Concentration Formula: Amt * DF * Vt / Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Final Extract Volume (uL)
Vo	500.00000	Sample Volume extracted (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ng/mL)	FINAL (ug/L)
* 4 Naphthalene-d8	136	5.697	5.697	(1.000)	549847	200.000		
5 Naphthalene	128	5.720	5.720	(1.004)	6900095	3100.44	3100	
\$ 6 2-Methylnaphthalene-d10	152	6.526	6.526	(1.145)	202153	153.302 ✓	153	
7 2-Methylnaphthalene	142	6.560	6.560	(1.151)	837131	656.316	656	
8 1-Methylnaphthalene	142	6.687	6.687	(1.174)	1036896	804.316	804	
10 Acenaphthylene	152	7.666	7.666	(0.976)	32439	20.6942	20.7	
* 11 Acenaphthene-d10	164	7.854	7.854	(1.000)	241841	200.000		
12 Acenaphthene	153	7.894	7.894	(1.005)	146008	136.253	136	
14 Dibenzofuran	168	8.095	8.095	(1.031)	126608	79.7448	79.7	
15 Fluorene	166	8.511	8.511	(1.084)	200980	188.476	188	
* 18 Phenanthrene-d10	188	9.677	9.677	(1.000)	392678	200.000		
19 Phenanthrene	178	9.704	9.704	(1.003)	157156	99.1763	99.2	
20 Anthracene	178	9.758	9.758	(1.008)	63738	41.7037	41.7	
24 Fluoranthene	202	11.179	11.179	(1.155)	48587	32.4988	32.5	
25 Pyrene	202	11.461	11.461	(0.884)	59408	28.4474	28.4	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	ON-COLUMN (ng/mL)	FINAL (ug/L)	
28 Benzo(a)anthracene	228	12.949	12.949	(0.999)	9152	6.73196 J 6.73	
* 29 Chrysene-d12	240	12.963	12.963	(1.000)	337257	200.000	
30 Chrysene	228	12.990	12.989	(1.002)	20515	10.3528 M 10.4 (M)	
43 Total Benzofluoranthenes	252	14.216	14.239	(0.968)	19362	12.2337 - 12.2 (M)	
34 Benzo(a)pyrene	252	14.608	14.608	(0.994)	12470	9.60167 J 9.60	
* 35 Perylene-d12	264	14.688	14.688	(1.000)	276909	200.000	
37 Indeno(1,2,3-cd)pyrene	276	16.281	16.281	(1.108)	9452	6.01386 J 6.01	
\$ 36 Dibenzo(a,h)anthracene-d14	292	16.241	16.241	(1.106)	248677	254.399 - 254	
38 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
39 Benzo(g,h,i)perylene	276	16.751	16.751	(1.140)	12434	8.45664 J 8.46	

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt11.i	Calibration Date: 27-JAN-2011
Lab File ID: sf76h.d	Calibration Time: 10:21
Lab Smp Id: SF76H	Client Smp ID: MW-01-012111-D
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: Groundwater
Operator: yz	
Method File: /chem3/nt11.i/20110127.b/lowsim.m	
Misc Info: 11-1425	

Test Mode: Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	342549	171274	685098	549847	60.52
11 Acenaphthene-d10	185015	92508	370030	241841	30.71
18 Phenanthrene-d10	320966	160483	641932	392678	22.34
29 Chrysene-d12	212759	106380	425518	337257	58.52
35 Perylene-d12	156605	78302	313210	276909	76.82

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Naphthalene-d8	5.70	5.20	6.20	5.70	0.00
11 Acenaphthene-d10	7.85	7.35	8.35	7.85	0.00
18 Phenanthrene-d10	9.68	9.18	10.18	9.68	0.00
29 Chrysene-d12	12.96	12.46	13.46	12.96	0.00
35 Perylene-d12	14.69	14.19	15.19	14.69	0.00

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

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Floyd-Snider

Client SDG: SF76

Sample Matrix: LIQUID

Fraction: SV

Lab Smp Id: SF76H

Client Smp ID: MW-01-012111-D

Level: LOW

Operator: yz

Data Type: MS DATA

SampleType: SAMPLE

SpikeList File: waterlcs.spk

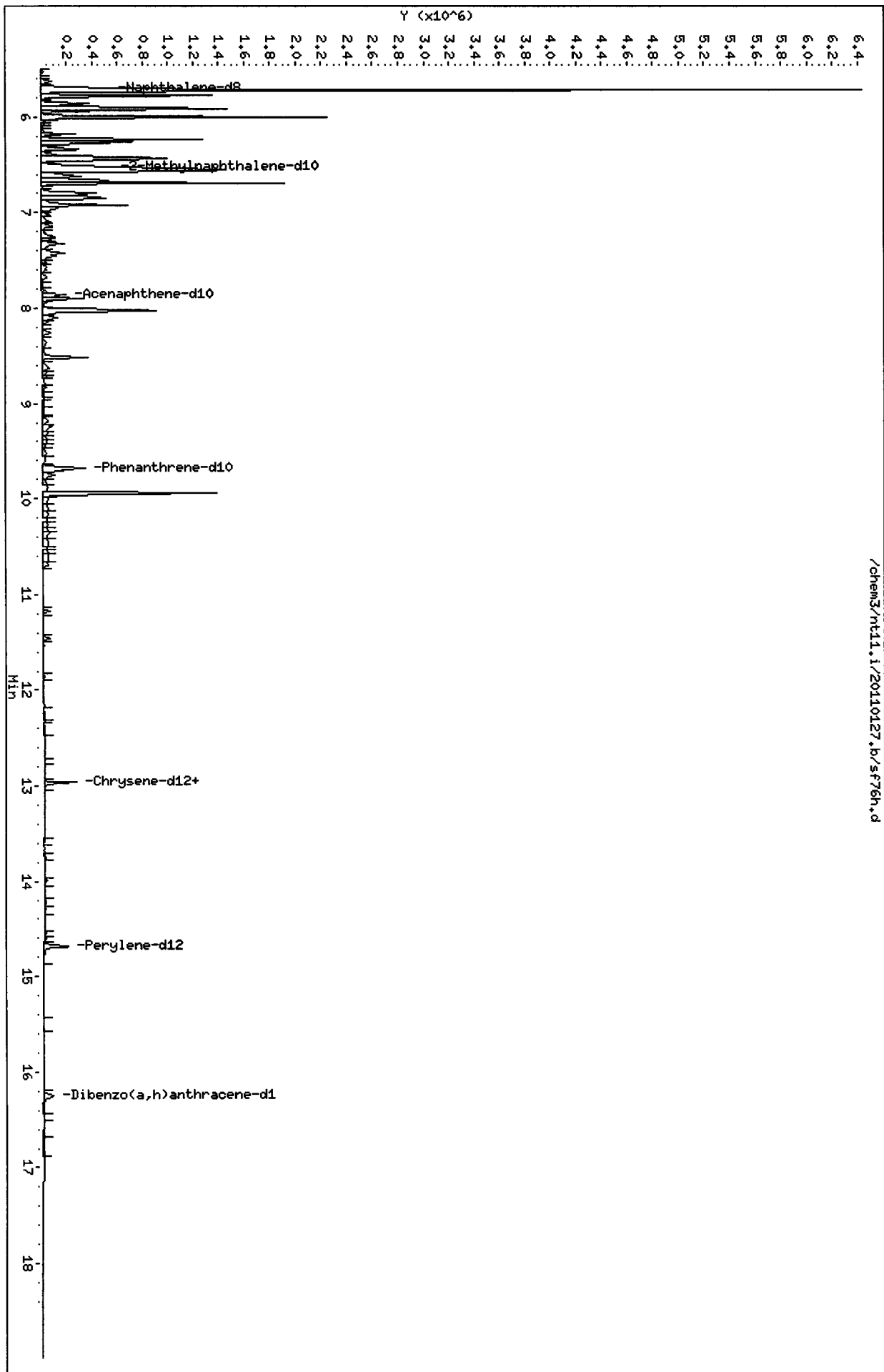
Quant Type: ISTD

Sublist File: pna1mn.sub

Method File: /chem3/nt11.i/20110127.b/lowsim.m

Misc Info: 11-1425

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 6 2-Methylnaphthalen	300	153	51.10	31-109
\$ 36 Dibenzo(a,h)anthra	300	254	84.80	10-133



Date : 27-JAN-2011 17:02

Client ID: MW-01-012111-D

Instrument: nt11.i

Sample Info: SF76H

Volume Injected (uL): 2.0

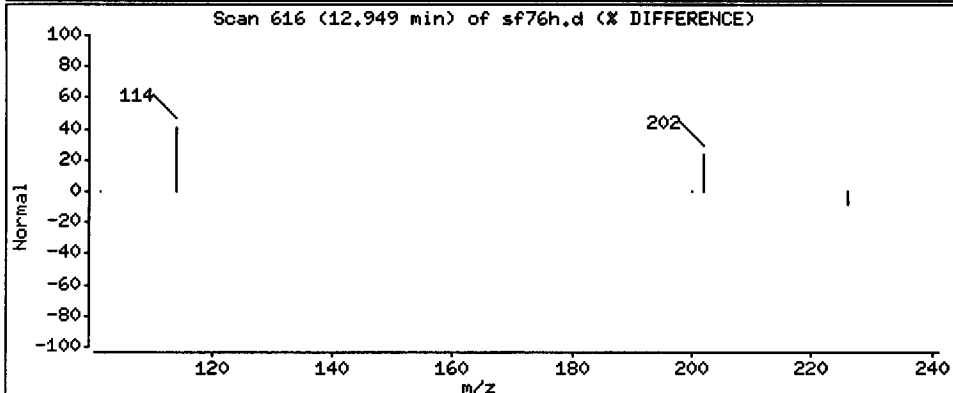
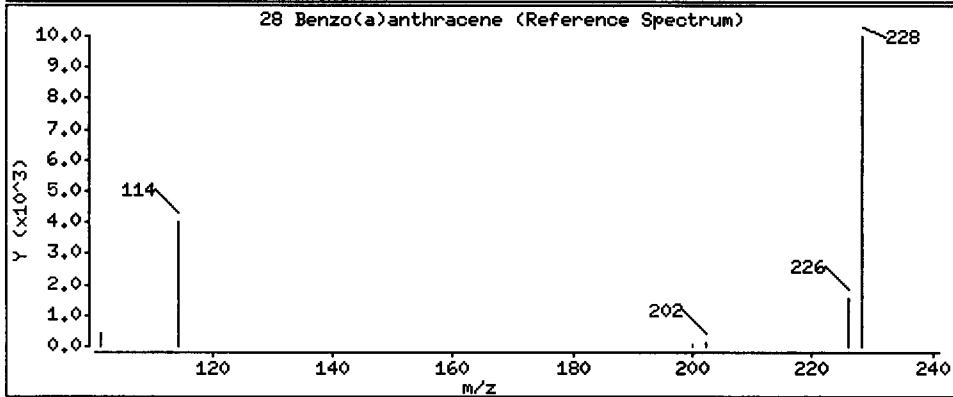
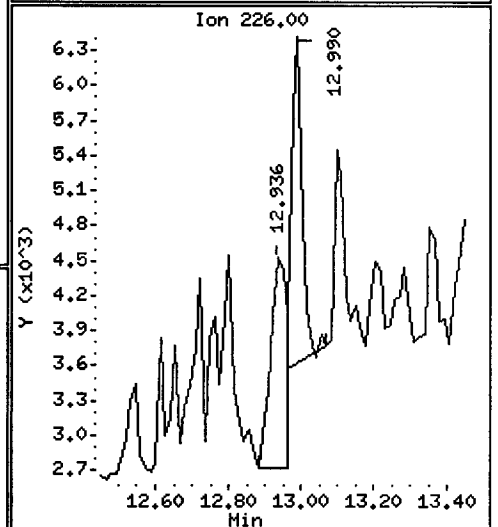
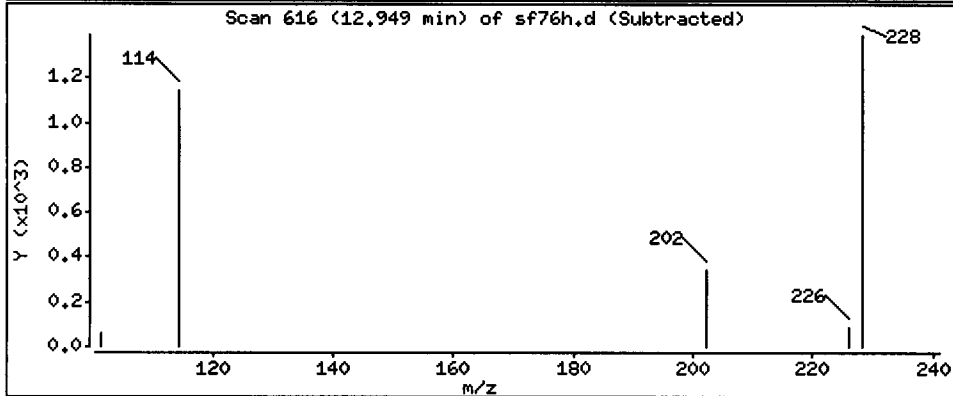
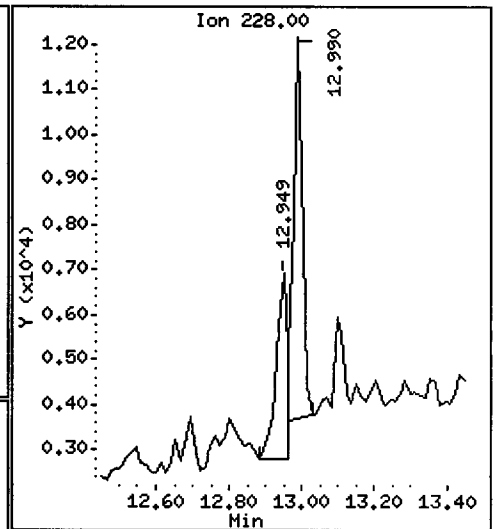
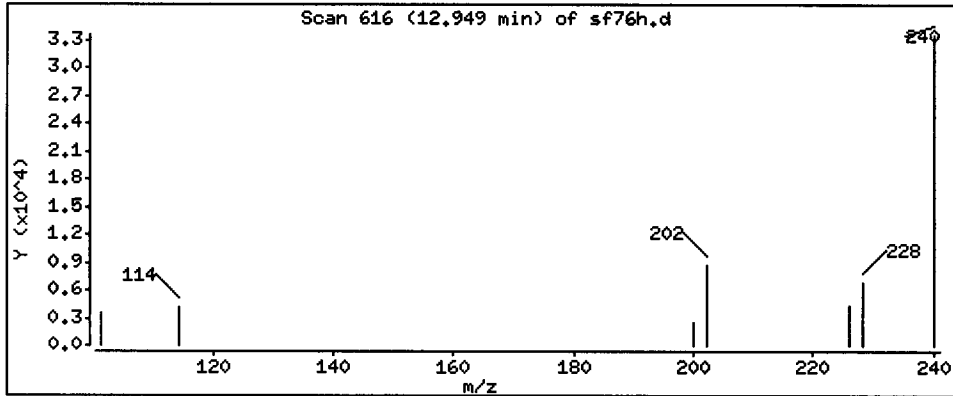
Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

28 Benzo(a)anthracene

Concentration: 6.73 ug/L



Date : 27-JAN-2011 17:02

Client ID: MW-01-012111-D

Instrument: nt11.i

Sample Info: SF76H

Volume Injected (uL): 2.0

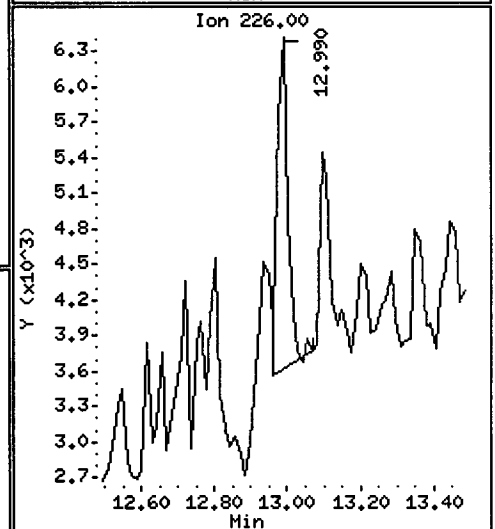
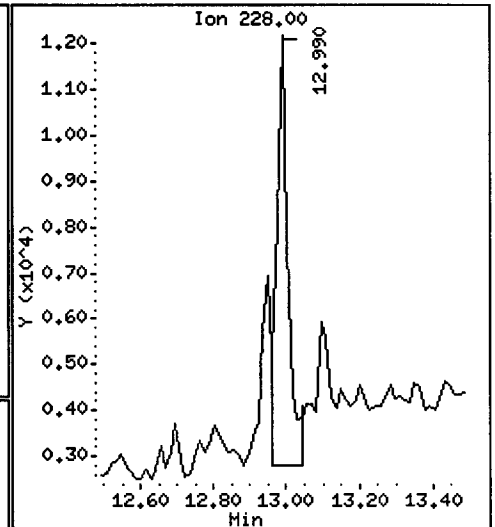
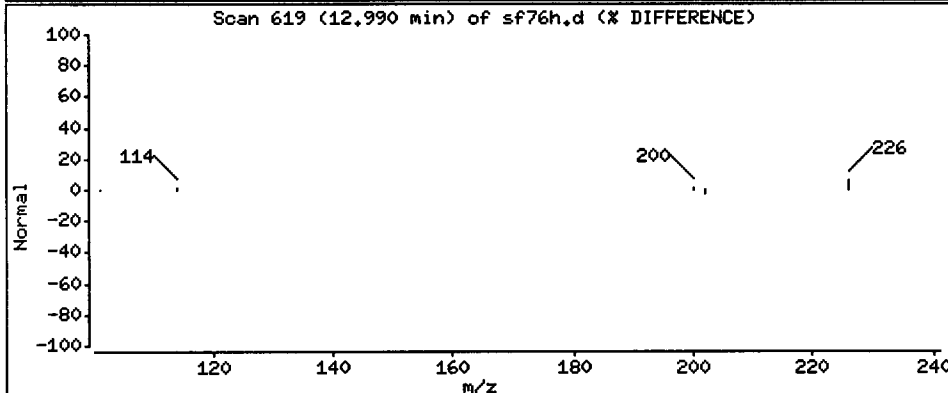
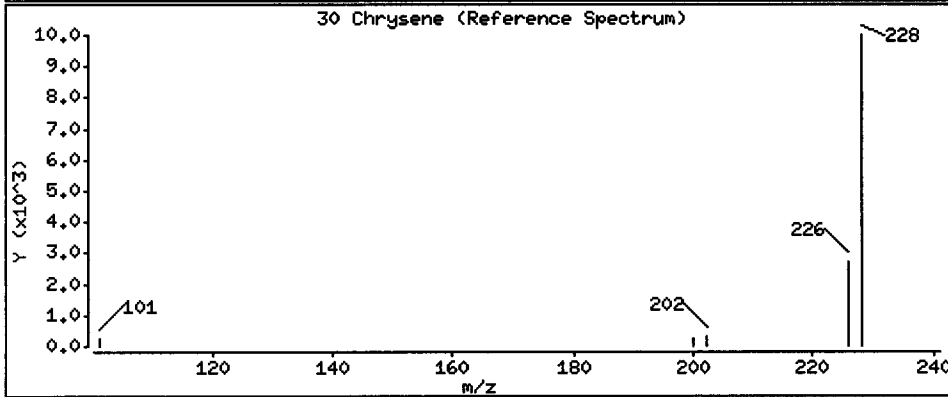
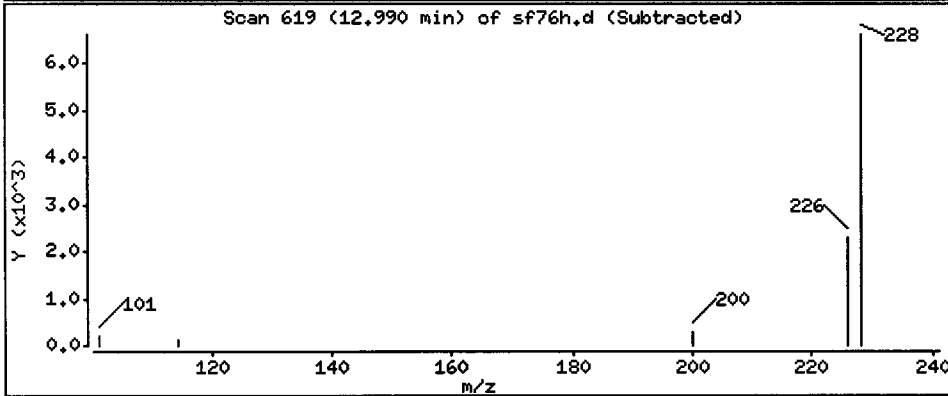
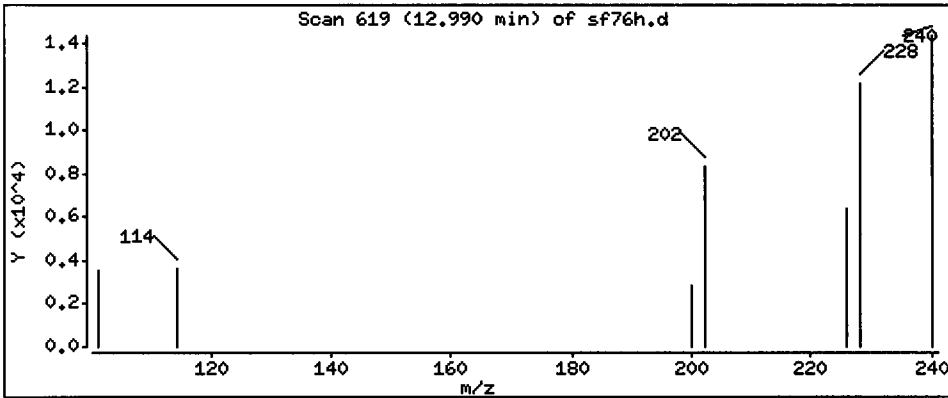
Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

30 Chrysene

Concentration: 10.4 ug/L



Date : 27-JAN-2011 17:02

Client ID: MW-01-012111-D

Instrument: nt11.i

Sample Info: SF76H

Volume Injected (uL): 2.0

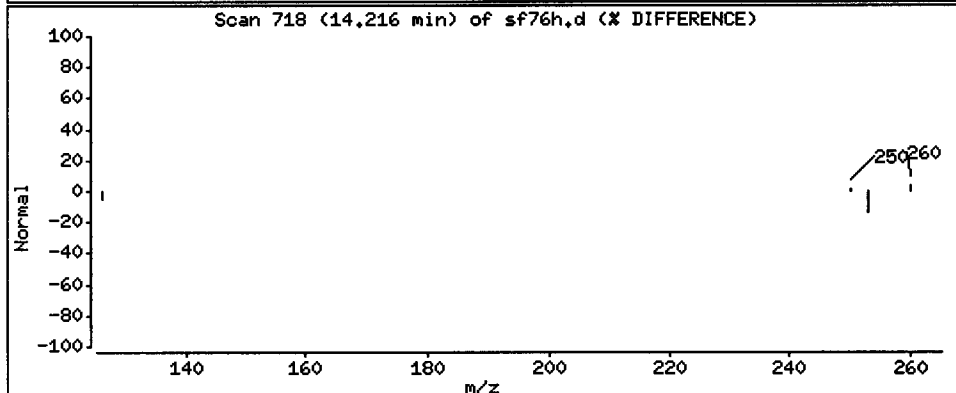
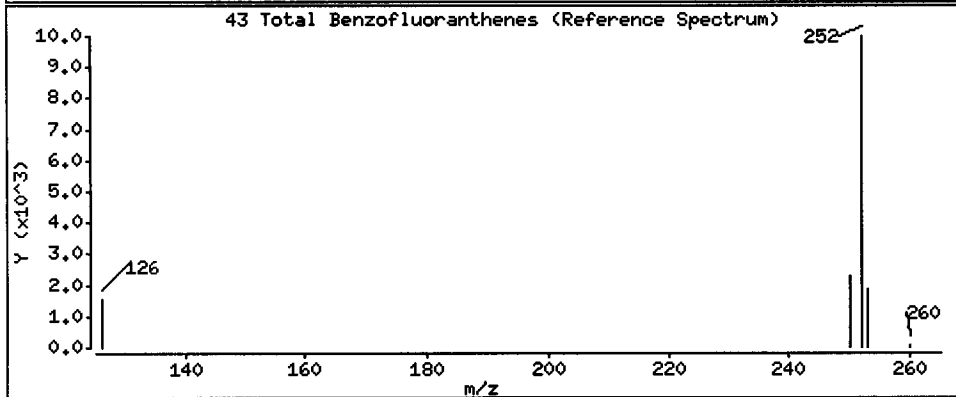
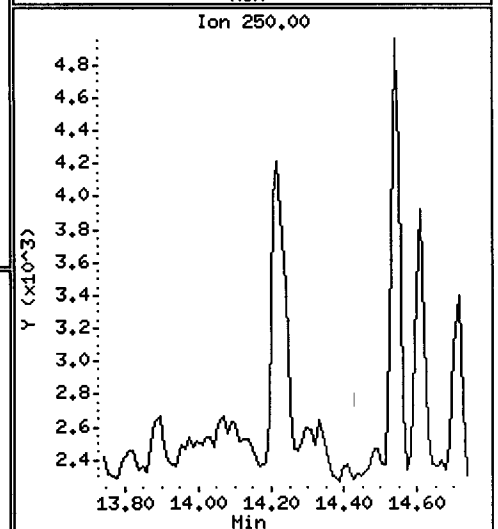
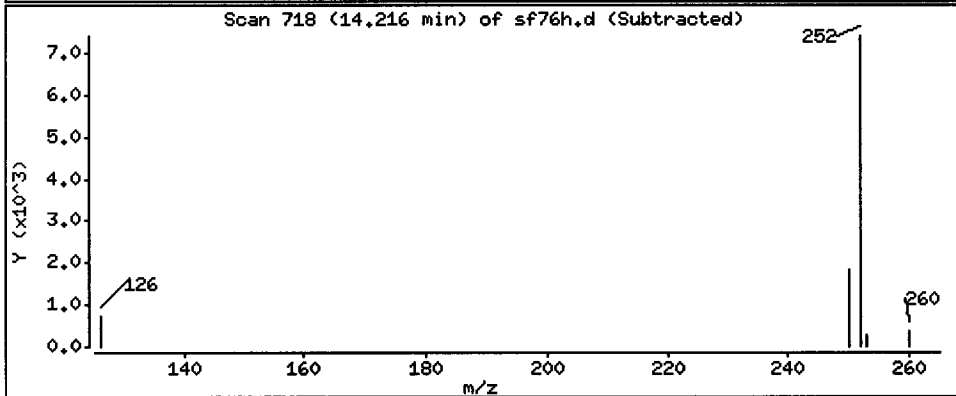
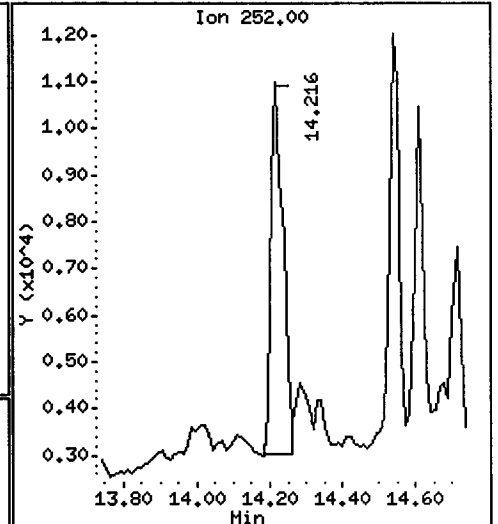
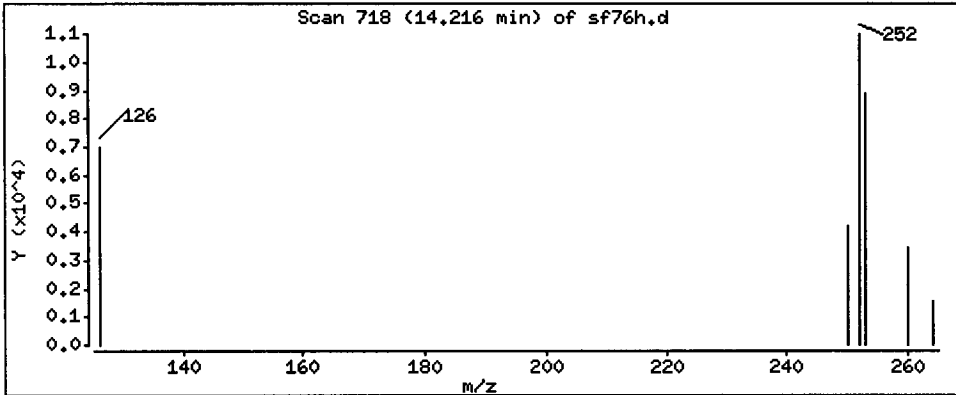
Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

43 Total Benzofluoranthenes

Concentration: 12.2 ug/L



Date : 27-JAN-2011 17:02

Client ID: MW-01-012111-D

Instrument: nt11.i

Sample Info: SF76H

Volume Injected (uL): 2.0

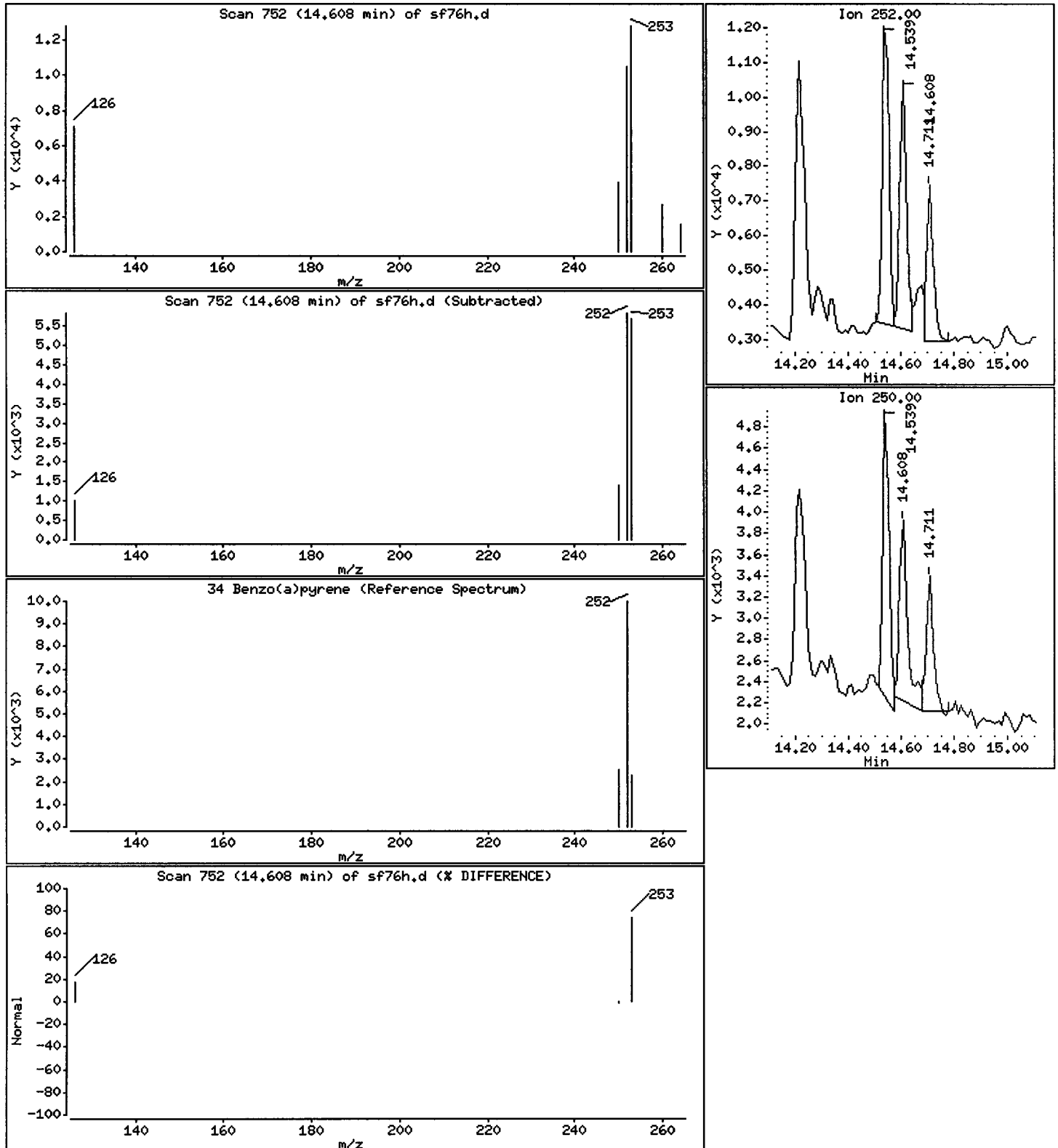
Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

34 Benzo(a)pyrene

Concentration: 9.60 ug/L



Date : 27-JAN-2011 17:02

Client ID: MW-01-012111-D

Instrument: nt11.i

Sample Info: SF76H

Volume Injected (uL): 2.0

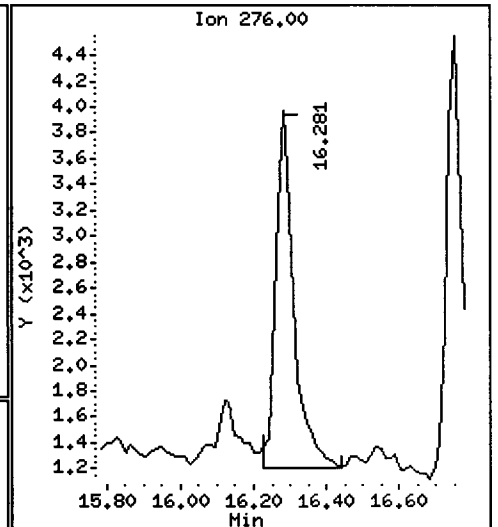
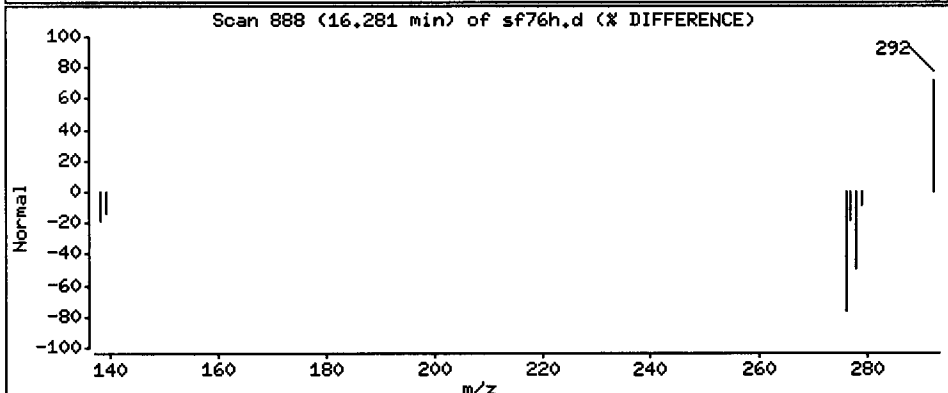
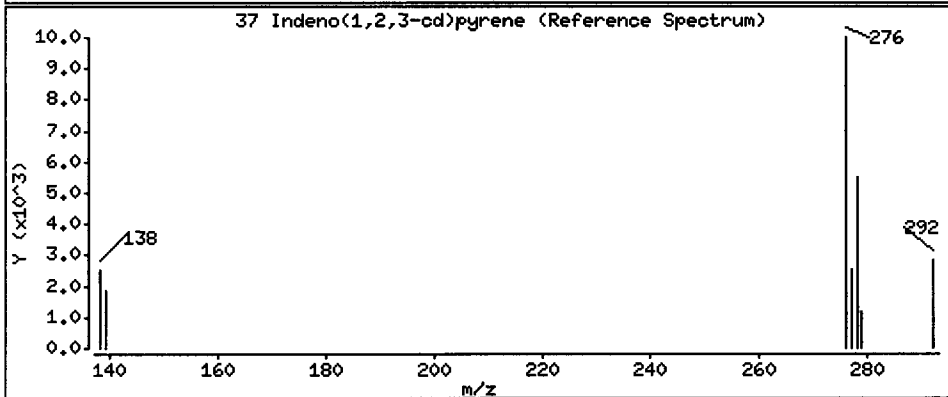
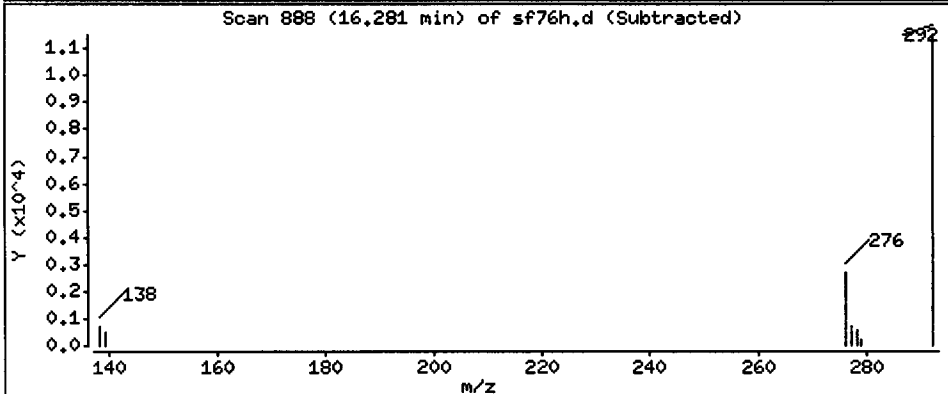
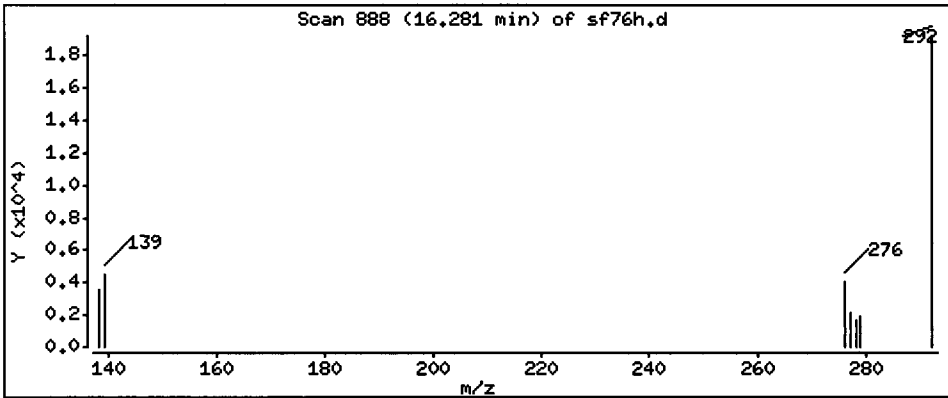
Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

37 Indeno(1,2,3-cd)pyrene

Concentration: 6.01 ug/L



Date : 27-JAN-2011 17:02

Client ID: MW-01-012111-D

Instrument: nt11.i

Sample Info: SF76H

Volume Injected (uL): 2.0

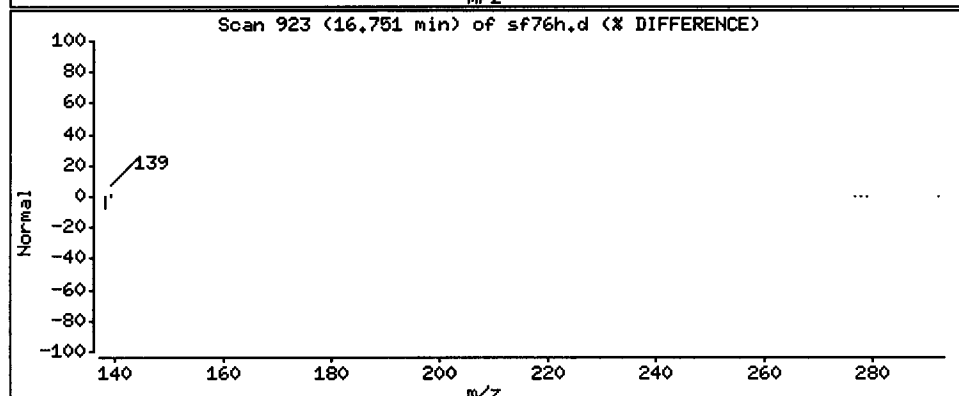
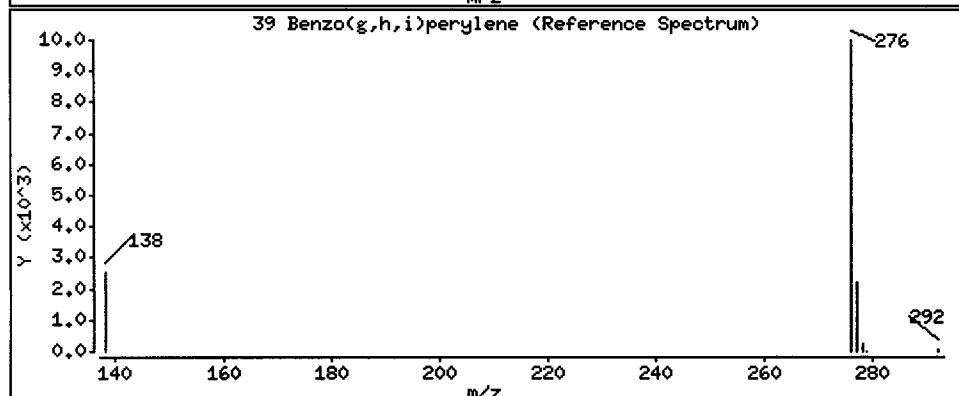
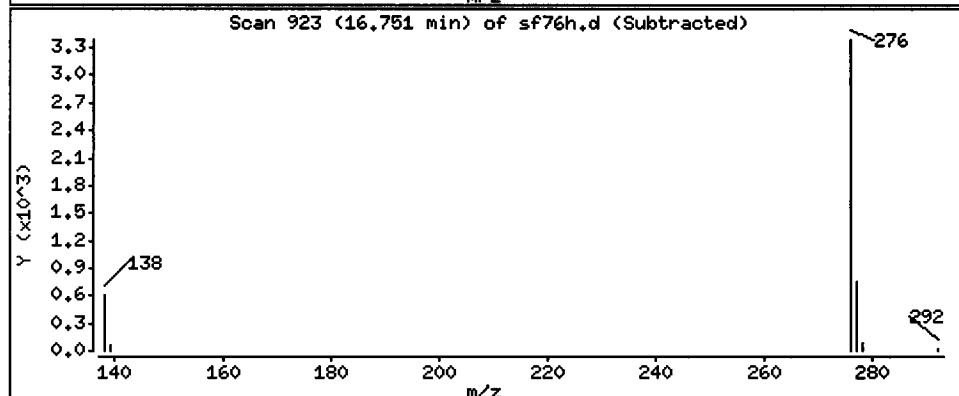
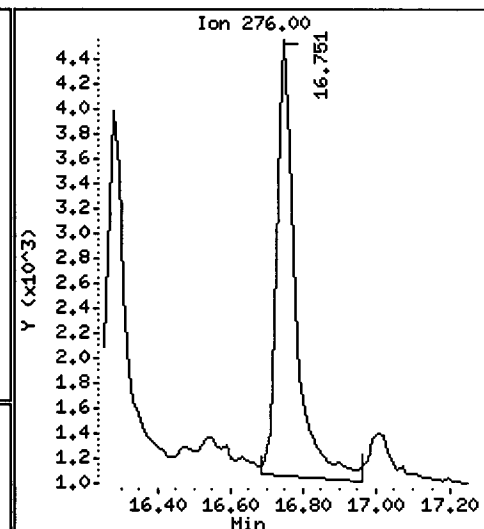
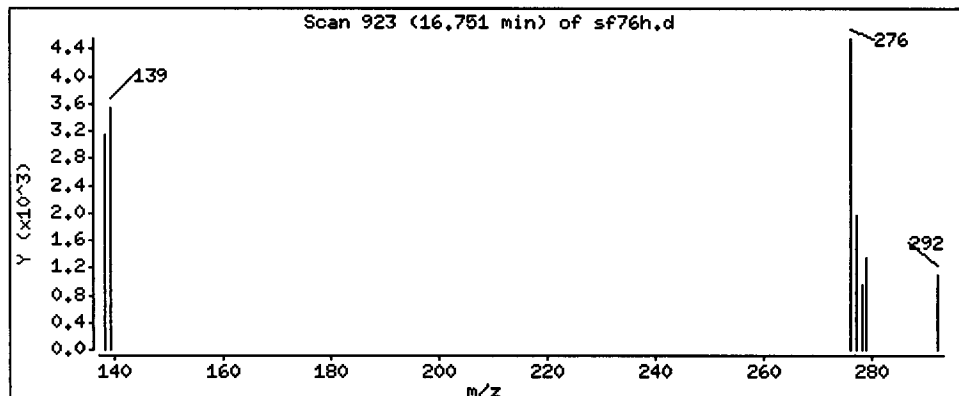
Operator: yz

Column phase: ZB-5msi

Column diameter: 0.25

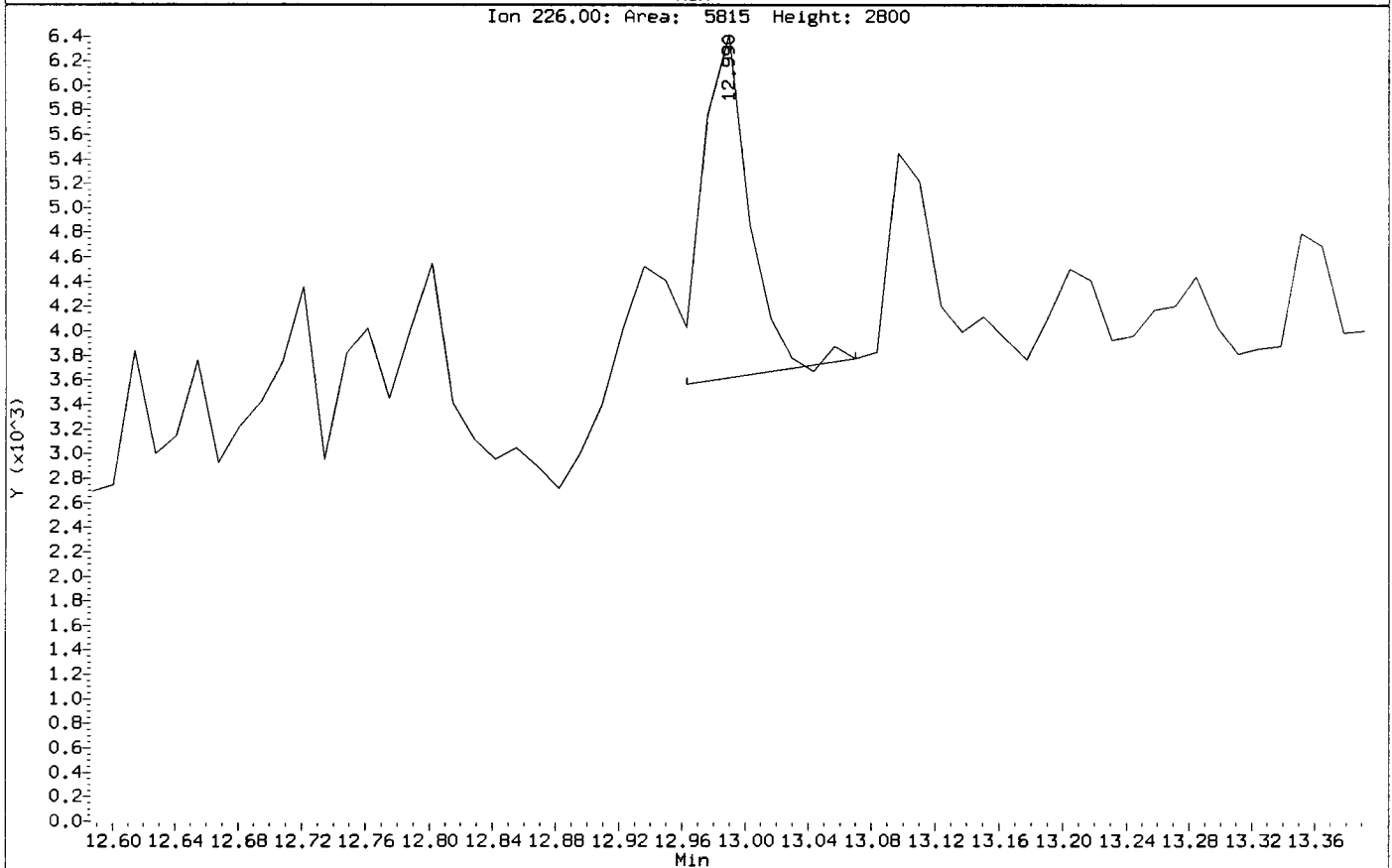
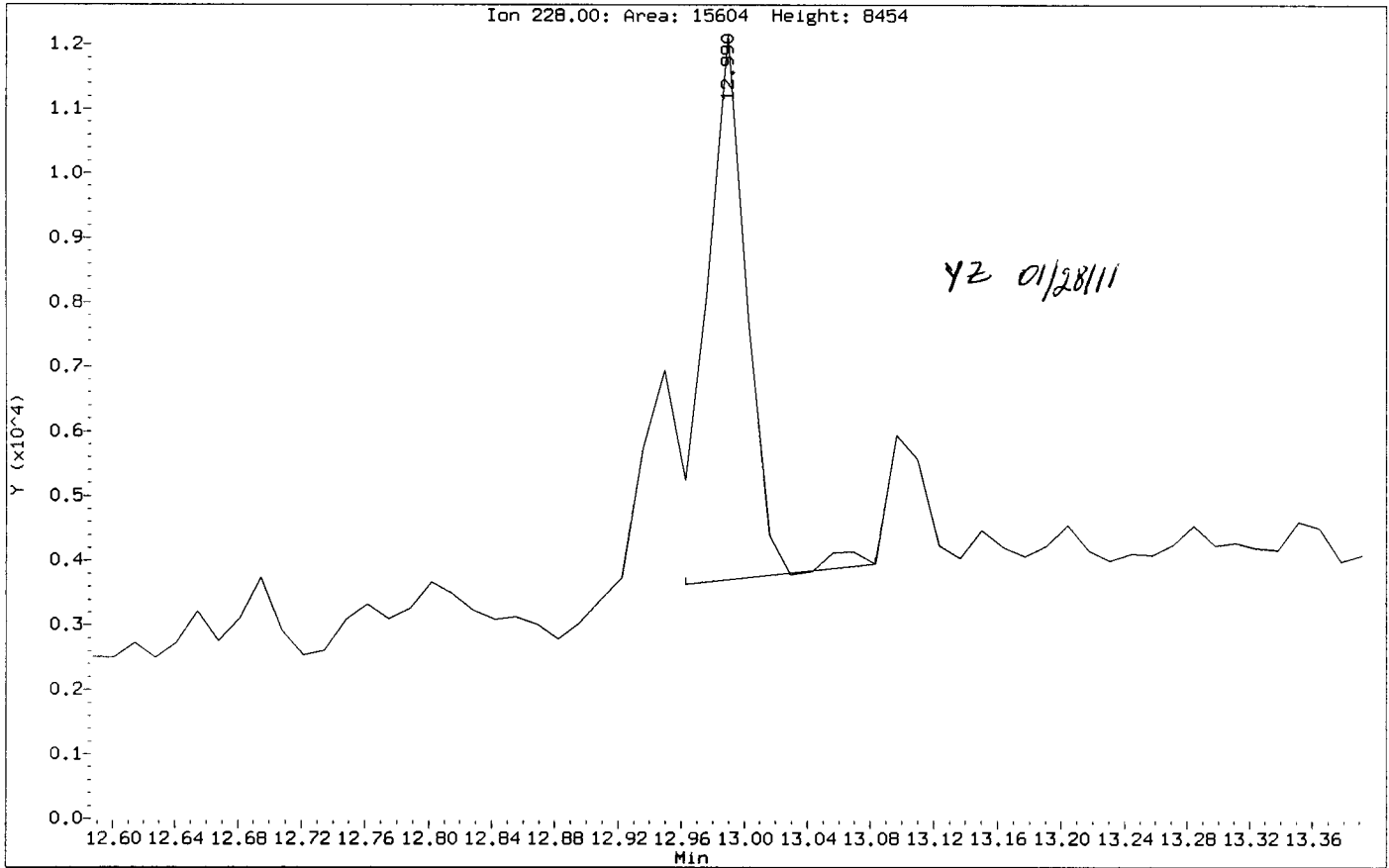
39 Benzo(g,h,i)perylene

Concentration: 8.46 ug/L



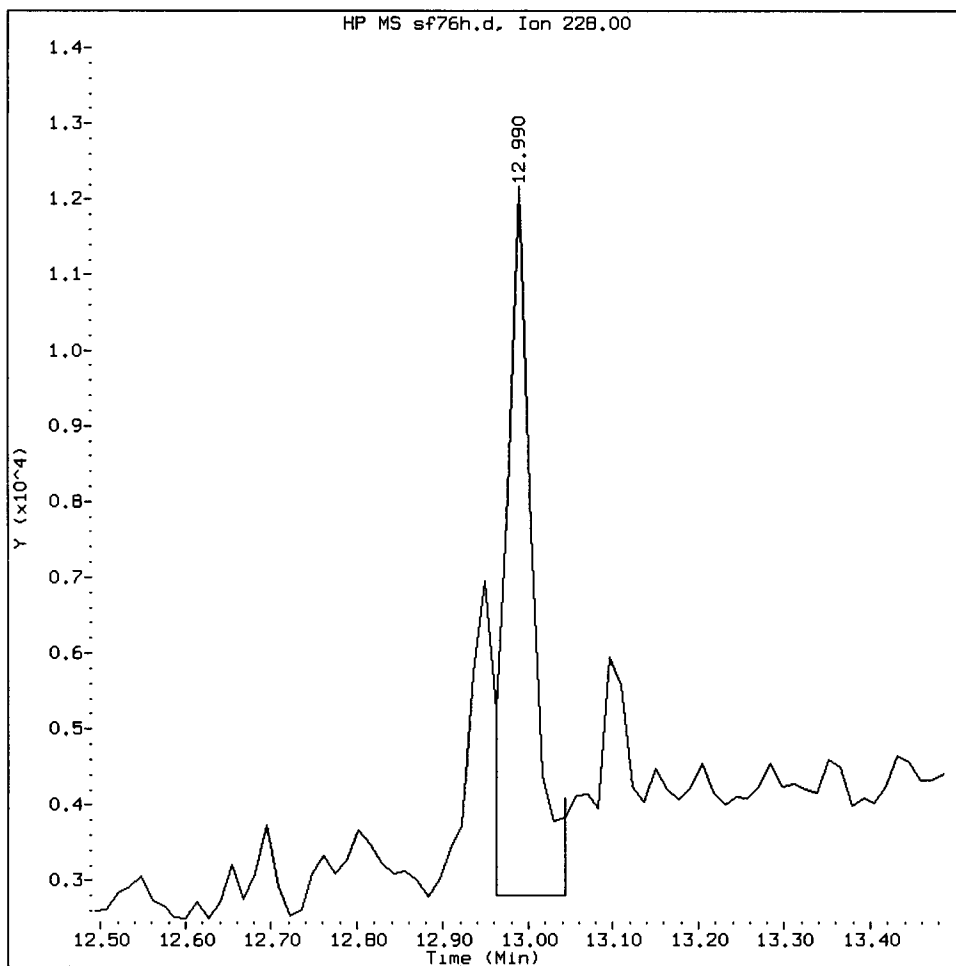
Data File: /chem3/nt11.1/20110127.b/sf76h.d
Injection Date: 27-JAN-2011 17:02
Instrument: nt11.1
Client Sample ID: MW-01-012111-D

Compound: Chrysene
CAS Number:



SF76H, /chem3/nt11.i/20110127.b/sf76h.d

Chrysene Amount: 10.35 Area: 20515



MANUAL INTEGRATION for Chrysene

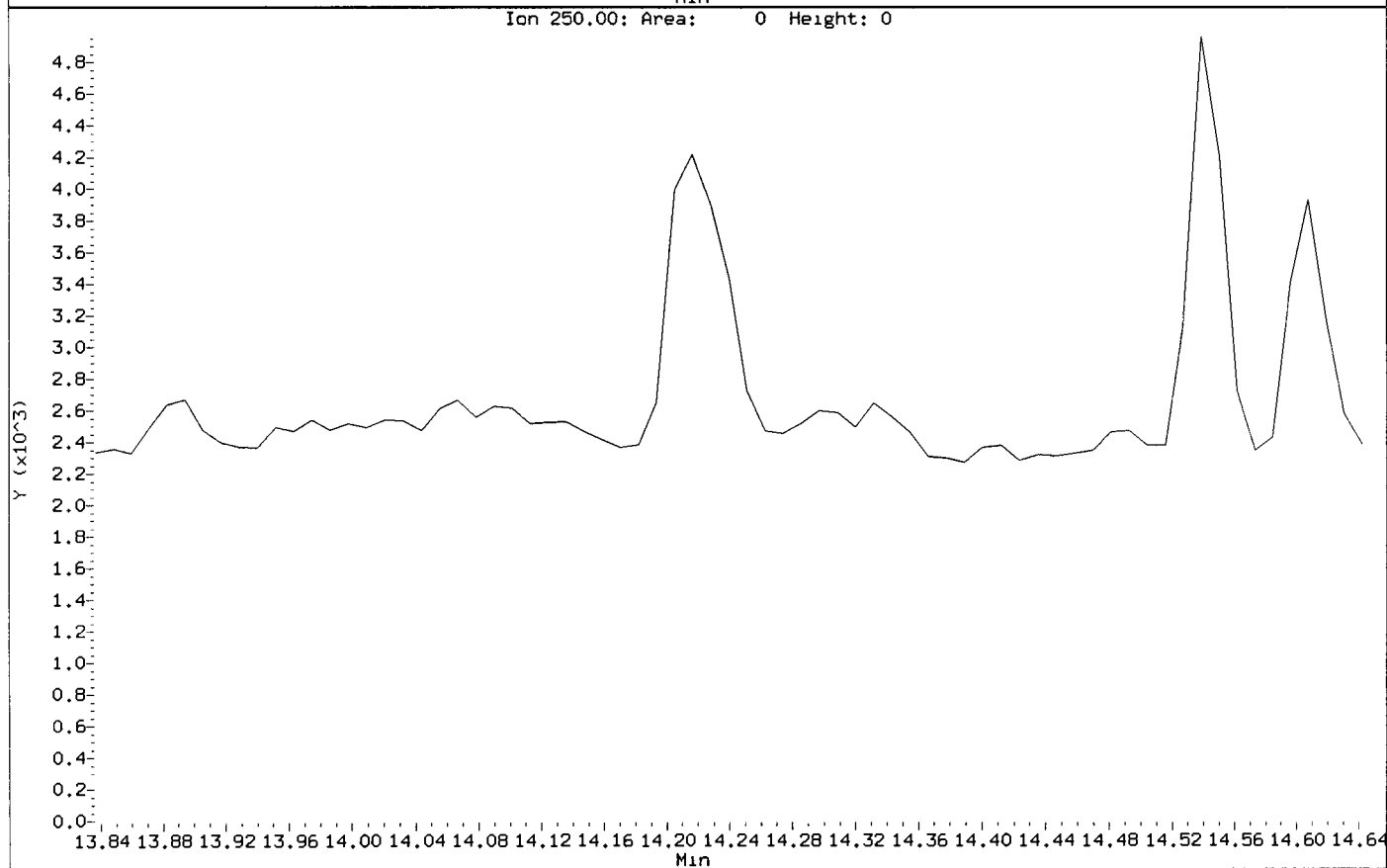
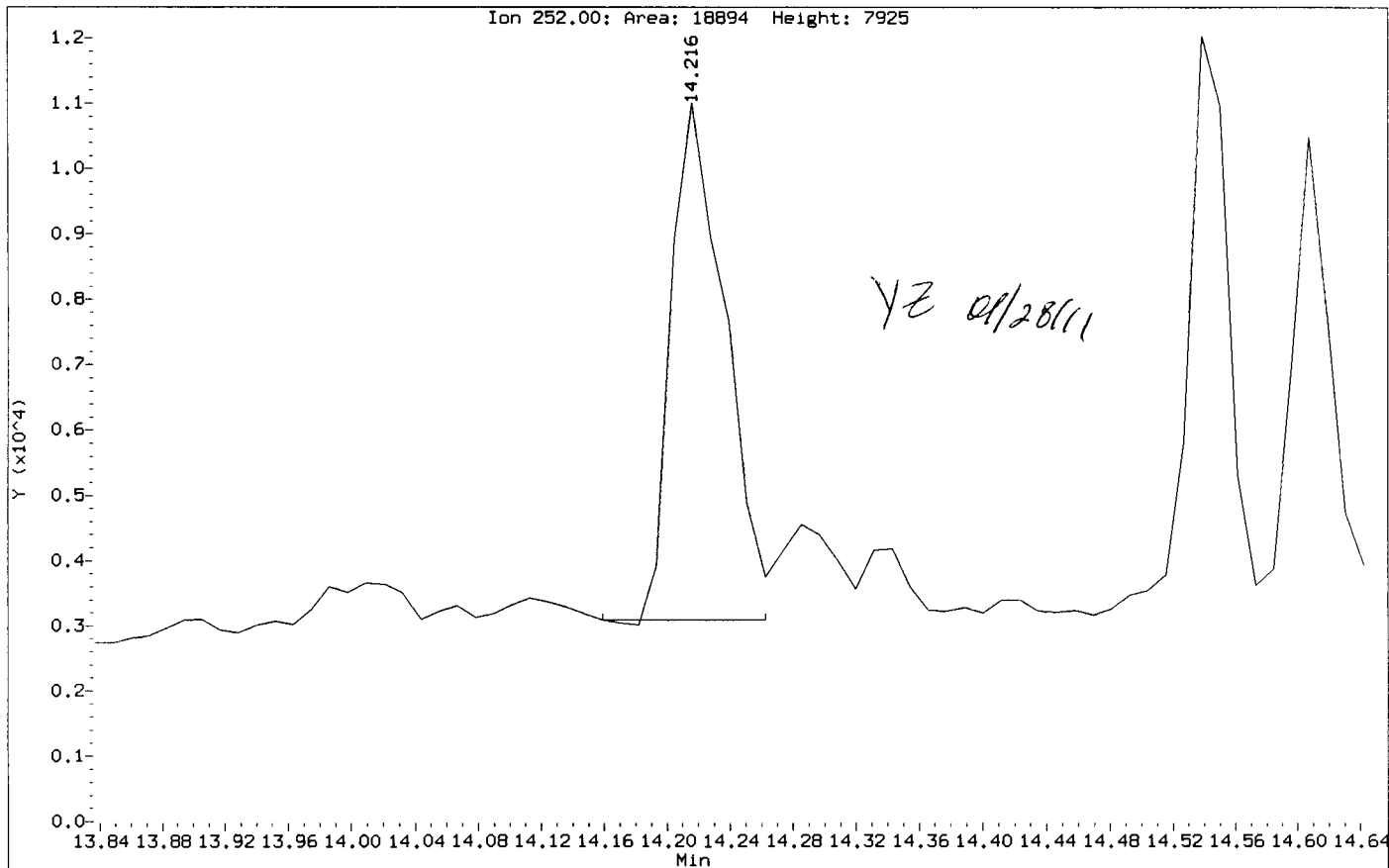
- 1. Baseline correction ✓
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: yz

Date: 01/28/11

Data File: /chem3/nt11.1/20110127.b/sf76h.d
Injection Date: 27-JAN-2011 17:02
Instrument: nt11.1
Client Sample ID: MW-01-012111-D

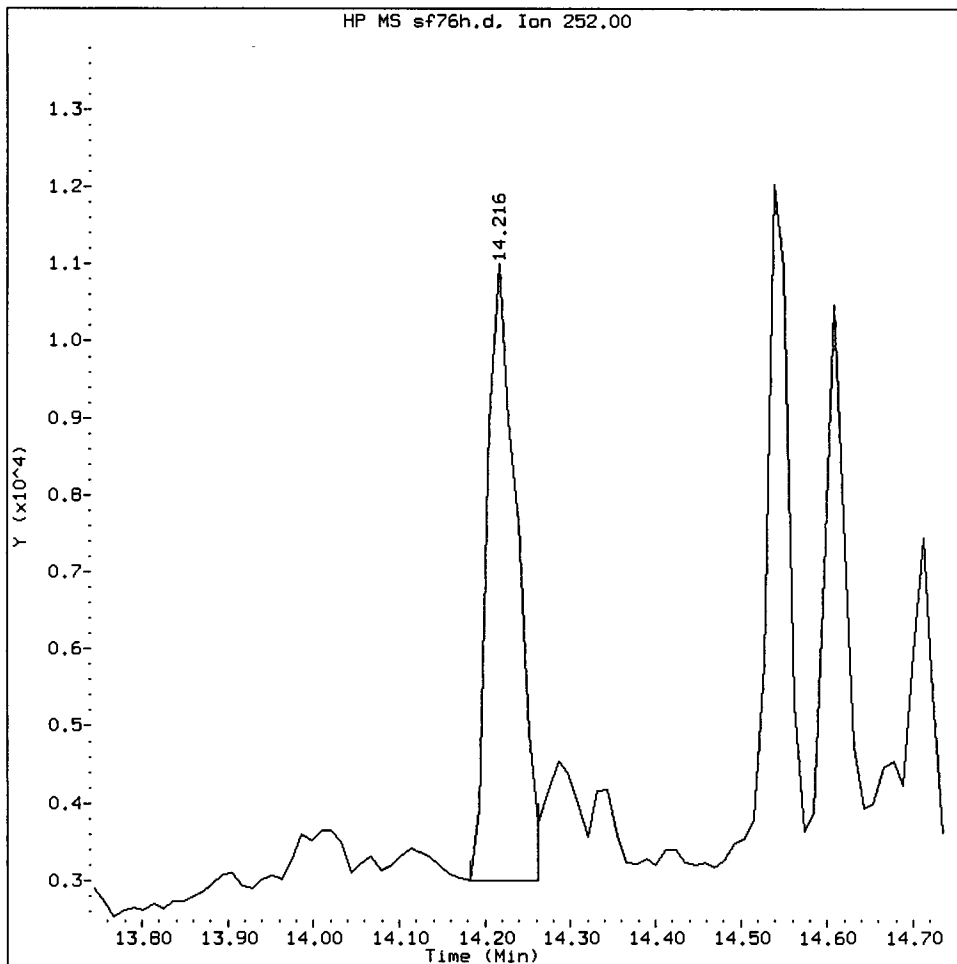
Compound: Total Benzofluoranthenes
CAS Number:



SF26: 00936

SF76H, /chem3/nt11.i/20110127.b/sf76h.d

Total Benzofluoranthenes Amount: 12.23 Area: 19362



MANUAL INTEGRATION for Total Benzofluoranthenes

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

Analyst: Y-E

Date: 01/28/11

CO-ELUTION SUMMARY FOR FILE - sf76h.d

Lab ID: SF76H, Method: lowsim.m, Instrument: nt11.i, Date: 27-JAN-2011

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

SF26 : 00938

**PCP/Chlorophenols Raw Data
Extraction Bench Sheets and Notes**

ARI Job ID: SF26, SF50, SF76



Preparation Test PCP # 1

ARI Job No(s) SF26, SF50, SF76

In-House (0.25ppb)
Batch set up by: JH

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted	KD Exchange To Hexane (X 2)	Turbo Vap 123	Volume to Lab	Derivitize	Final Effective Volume	Comments
	SF26 MBW	Date 1-24-11	500mL	↓	↓	10mL		50mL	
	↓ SBW	↓	↓	↓	↓	↓		↓	
	SBW/Dup								
	SF26 QLS	1-24-11	↓						
12	A	verified	500ml						
14	B								
14	C								
22	↓ D								
7,9,20	SF50 A								
↓	Ans								
↓	Ans d								
5	B								
7	C								
8	D								
7	E								
6	↓ F								
11	SF76 A								
9	B								
12	C								
12	D								
13	E								
14	F								
13	↓ H			✓ 4L	↓ 15	↓			
Analyst/Date: AC 1-24-11 / NL 1/24/11 / 1/24/11 / 1-25-11									

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	F 1791-3	100µL 12.5	12/09/11	PD	WW
Spike	6 1702-2	100µL 12.5	2/18/11	PD	WW
QLS Spike	16	50µL 12.5	12/10/11	PD	WW
Extraction Time: 14:55			Derivitized by:	DiazaID:	

- SPECIAL INSTRUCTIONS: 1. Add surr/spike. 2. Acidify all with 1:1 Sulfuric Acid 3. Extract 3X with 30mL DCM.
4. KD (NO Drying Column) at 80° to 5mL. 5. Exchange (2 X with 20mL) Hexane at 100°. 6. Turbo Vap.
7. Vial at 10mL into Herb tubes using Hexane. 8. GC Analyst to Derivitize.

A. Archive Y (N)



Analytical Resources,
Incorporated
Analytical Chemists and
Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: SF26/SF54/SF76

Client ID: Floyd-Snyder

Parameter: PCP

Client Project: Lava Lake Apts RI

Note problems, concerns, corrective actions	Analyst/Date
Screens: Soil/Sediment/Solid/Other:	
<input type="checkbox"/> No Anomalies (standard soil/sediment)	
<input type="checkbox"/> Wet sediment/sludge=	
<input type="checkbox"/> Standing Water Decanted=	
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay (Difficult to homogenize/Mixed with Kitchen Aid)=	
<input type="checkbox"/> Rocks/Organics=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input checked="" type="checkbox"/> No Anomalies <u>SF26 A-D, SF54 A-F, SF76 A-H</u>	<u>PD 1-24-11</u>
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates=	
<input type="checkbox"/> Emulsions=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Other Notes/Comments=	

**PCP/Chlorophenols Raw Data
Initial Calibration**

ARI Job ID: SF26, SF50, SF76

GC Analyst Notes / Corrective Action Log

ARI Project ID: Cl. Phend's Curve Client ID: ARI

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): NA

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: 1/20/2011 Analysis Start: 1/20/2011

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

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

- Col 2: quadratic - forced 2,4-Dichlorophenol
- Col 1: quadratic - forced 2,4-Dichlorophenol & 2,4,6-Trichlorophenol

Additional Details on Reverse: Yes / No

Analyst: [Signature] Date: 1/20/2011

Reviewer: [Signature] Date: 1/22/11

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecd1.i/PCP20110120.b/ical-2.b

ARI Job No.: PCPF Method: PCPB.m Instrument: ecd1.i Date: 20-JAN-2011

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1830	0120A005.d	PCPF		1	NO MANUAL INTEGRATION
1906	0120A006.d	PCPA		1	Pentachlorophenol, 2,3,6-Trichlorophenol, 2,3,5,6-Tetrachlorophenol, 2,4-Dichlorophenol, 2,4,6-Tribromophenol (surr),
1943	0120A007.d	PCPB		1	Pentachlorophenol, 2,4-Dichlorophenol,
2019	0120A008.d	PCPC		1	NO MANUAL INTEGRATION
2055	0120A009.d	PCPD		1	NO MANUAL INTEGRATION
2131	0120A010.d	PCPE		1	NO MANUAL INTEGRATION
2207	0120A011.d	PCP ICV		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/ecdl.i/PCP20110120.b/ical-1.b

ARI Job No.: PCPF Method: PCP.m Instrument: ecd1.i Date: 20-JAN-2011

Time Filename LabID ClientId DF Manually Integrated Compounds

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1830	0120A005.d	PCPF		1	NO MANUAL INTEGRATION
1906	0120A006.d	PCPA		1	Pentachlorophenol, 2,4,6-Trichlorophenol, 2,3,6-Trichlorophenol, 2,4,5-Trichlorophenol, 2,3,4-Trichlorophenol, 2,3,4,5-Tetrachlorophenol,
1943	0120A007.d	PCPB		1	Pentachlorophenol, 2,3,6-Trichlorophenol, 2,4,5-Trichlorophenol, 2,3,4-Trichlorophenol, 2,3,4,5-Tetrachlorophenol,
2019	0120A008.d	PCPC		1	NO MANUAL INTEGRATION
2055	0120A009.d	PCPD		1	NO MANUAL INTEGRATION
2131	0120A010.d	PCPE		1	NO MANUAL INTEGRATION
2207	0120A011.d	PCP ICV		1	NO MANUAL INTEGRATION

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecdl1.i/PCP20110120.b/PCP.m
Batch File: /chem2/ecdl1.i/PCP20110120.b/ical-1.b
Inst ID: ecdl1.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
FILENAME:	0120A005	0120A006	0120A007	0120A008	0120A009	0120A010				
INJ. DATE:	20-JAN-2011	20-JAN-2011	20-JAN-2011	20-JAN-2011	20-JAN-2011	20-JAN-2011				
INJ. TIME:	18:30	19:06	19:43	20:19	20:55	21:31				
Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 2,4-Dichlorophenol	12.451	12.462	12.458	12.455	12.453	12.451	12.453	12.383-12.523	12.455	0.005
2 2,4,6-Trichlorophenol	13.430	13.433	13.431	13.431	13.430	13.429	13.430	13.360-13.500	13.431	0.001
3 2,3,6-Trichlorophenol	14.397	14.407	14.400	14.401	14.398	14.396	14.398	14.328-14.468	14.400	0.004
4 2,4,5-Trichlorophenol	16.093	16.153	16.137	16.126	16.111	16.099	16.111	16.041-16.181	16.120	0.023
5 2,3,4-Trichlorophenol	17.334	17.400	17.383	17.369	17.356	17.342	17.356	17.286-17.426	17.364	0.025
6 2,3,5,6-Tetrachlorophe	17.734	17.765	17.754	17.748	17.740	17.735	17.740	17.670-17.810	17.746	0.012
7 2,4,6-Tribromophenol (19.650	19.687	19.675	19.669	19.660	19.653	19.660	19.590-19.730	19.666	0.014
8 2,3,4,5-Tetrachlorophe	20.536	20.573	20.563	20.557	20.548	20.541	20.548	20.478-20.618	20.553	0.014
9 Pentachlorophenol	21.794	21.813	21.807	21.804	21.798	21.794	21.798	21.728-21.868	21.802	0.008

Reviewer 1 AR Date: 12/1/2011
 Reviewer 2 AS Date: 1/22/11

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/ecdl.i/PCP20110120.b/PCPB.m
Batch File: /chem2/ecdl.i/PCP20110120.b/ical-2.b
Inst ID: ecdl.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
FILENAME:	0120A005	0120A006	0120A007	0120A008	0120A009	0120A010				
INJ. DATE:	20-JAN-2011	20-JAN-2011	20-JAN-2011	20-JAN-2011	20-JAN-2011	20-JAN-2011				
INJ. TIME:	18:30	19:06	19:43	20:19	20:55	21:31				
Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 2,4-Dichlorophenol	13.466	13.477	13.473	13.471	13.468	13.465	13.468	13.398-13.538	13.470	0.005
2 2,4,6-Trichlorophenol	13.817	13.820	13.819	13.818	13.817	13.815	13.817	13.747-13.887	13.818	0.002
3 2,3,6-Trichlorophenol	15.223	15.230	15.227	15.226	15.223	15.222	15.223	15.153-15.293	15.225	0.003
4 2,4,5-Trichlorophenol	17.181	17.222	17.211	17.202	17.192	17.184	17.192	17.122-17.262	17.199	0.016
5 2,3,5,6-Tetrachlorophe	18.446	18.470	18.461	18.455	18.451	18.446	18.451	18.381-18.521	18.455	0.009
6 2,3,4-Trichlorophenol	18.742	18.784	18.773	18.764	18.755	18.745	18.755	18.685-18.825	18.760	0.016
7 2,4,6-Tribromophenol	20.896	20.920	20.914	20.909	20.903	20.898	20.903	20.833-20.973	20.907	0.009
8 2,3,4,5-Tetrachlorophe	21.840	21.865	21.858	21.852	21.846	21.841	21.846	21.776-21.916	21.850	0.010
9 Pentachlorophenol	22.658	22.673	22.667	22.665	22.661	22.658	22.661	22.591-22.731	22.664	0.006

Reviewer 1 AR Date: 12/20/11
 Reviewer 2 AD Date: 1/21/11

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JAN-2011 18:30
 End Cal Date : 20-JAN-2011 21:31
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd1.i/PCP20110120.b/PCPB.m
 Cal Date : 21-Jan-2011 18:22 aron
 Curve Type : Average

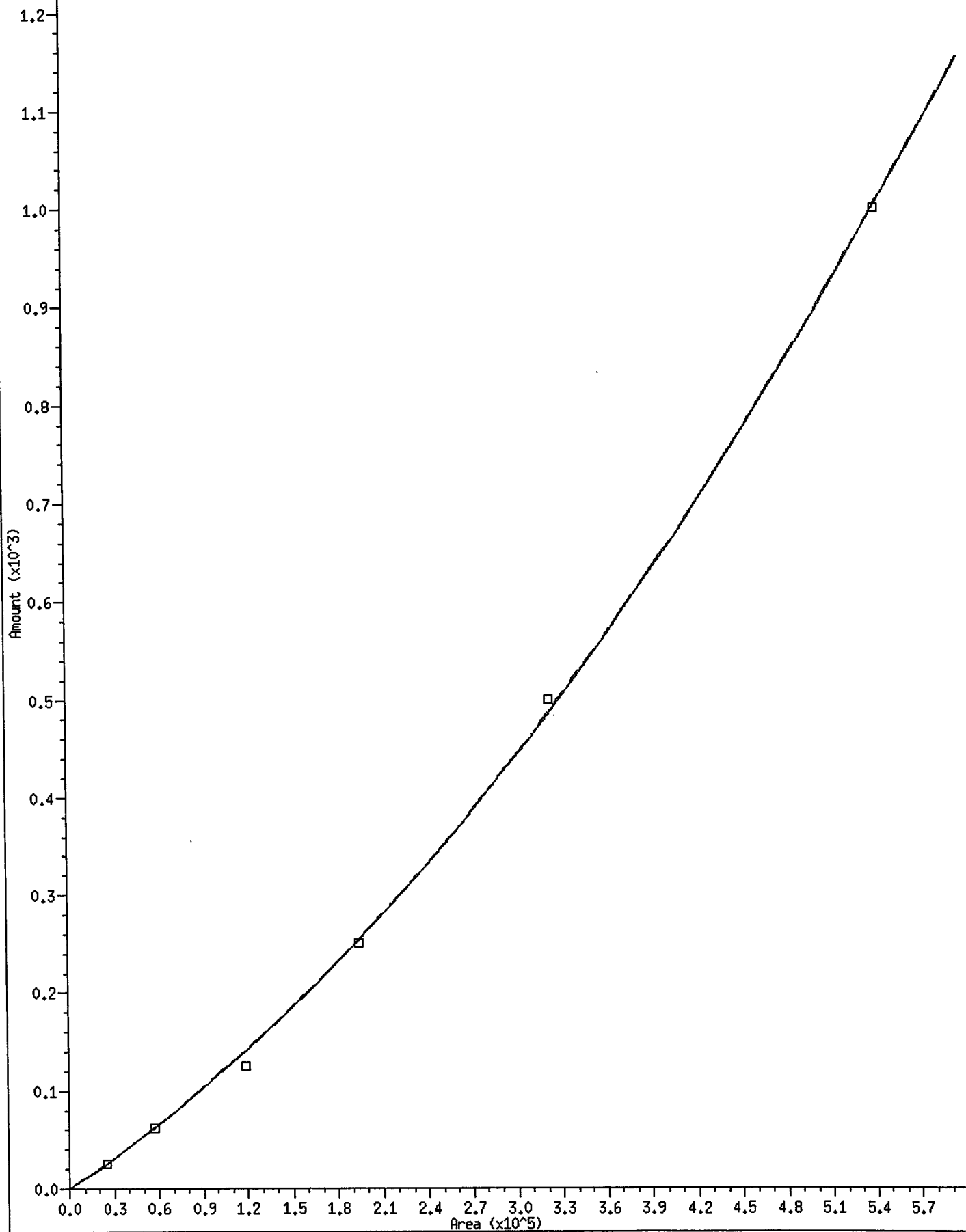
Calibration File Names:

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 Level 2: /chem2/ecd1.i/PCP20110120.b/ical-2.b/0120A007.d
 Level 3: /chem2/ecd1.i/PCP20110120.b/ical-2.b/0120A008.d
 Level 4: /chem2/ecd1.i/PCP20110120.b/ical-2.b/0120A009.d
 Level 5: /chem2/ecd1.i/PCP20110120.b/ical-2.b/0120A010.d
 Level 6: /chem2/ecd1.i/PCP20110120.b/ical-2.b/0120A005.d

Compound	2.500 Level 1	6.250 Level 2	12.500 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
1 2,4-Dichlorophenol	991	911	953	778	645	543	803	22.447
2 2,4,6-Trichlorophenol	17029	16115	15838	14657	13068	11917	14771	13.232
3 2,3,6-Trichlorophenol	15567	14902	14552	13471	12493	11366	13725	11.570
4 2,4,5-Trichlorophenol	9365	8870	8922	7796	7108	6268	8055	14.991
5 2,3,5,6-Tetrachlorophenol	23477	22485	22181	20918	19564	17948	21096	9.729
6 2,3,4-Trichlorophenol	9097	10192	10487	9544	8434	7513	9211	12.089
8 2,3,4,5-Tetrachlorophenol	18821	17682	16941	15619	14395	12814	16045	13.804
9 Pentachlorophenol	30850	27921	27400	25461	23902	21788	26221	12.217
\$ 7 2,4,6-Tribromophenol (surr)	21717	20945	20521	19940	19152	17830	20017	6.900

1 2,4-Dichlorophenol

Curve Type: Quadratic By-Response
Amt = 0 + 0.00100055*Rsp + 1.562177e-09*Rsp^2
R^2: 0.9992704



Report Date : 21-Jan-2011 18:23

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JAN-2011 18:30
 End Cal Date : 20-JAN-2011 21:31
 Quant Method : ESTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecdl1.i/PCP20110120.b/PCPB.m
 Cal Date : 21-Jan-2011 18:22 aron

Calibration File Names:
 Level 1: /chem2/ecdl1.i/PCP20110120.b/ical-2.b/0120A006.d
 Level 2: /chem2/ecdl1.i/PCP20110120.b/ical-2.b/0120A007.d
 Level 3: /chem2/ecdl1.i/PCP20110120.b/ical-2.b/0120A008.d
 Level 4: /chem2/ecdl1.i/PCP20110120.b/ical-2.b/0120A009.d
 Level 5: /chem2/ecdl1.i/PCP20110120.b/ical-2.b/0120A010.d
 Level 6: /chem2/ecdl1.i/PCP20110120.b/ical-2.b/0120A005.d

Compound	Level						Level						Coefficients		%RSD or R^2
	2	6	12	25	50	100	100	6	Curve	b	m1	m2			
1 2,4-Dichlorophenol	24768	56927	119123	194600	322304	543068	QUAD	0.00100	0.000e+00	0.00100	1.562e-09		0.99927		
2 2,4,6-Trichlorophenol	17029	16115	15838	14657	13068	11917	AVRG	14771		14771			13.23161		
3 2,3,6-Trichlorophenol	15567	14902	14552	13471	12493	11366	AVRG	13725		13725			11.57004		
4 2,4,5-Trichlorophenol	9365	8870	8922	7796	7108	6268	AVRG	8055		8055			14.99123		
5 2,3,5,6-Tetrachlorophenol	23477	22485	22181	20918	19564	17948	AVRG	21096		21096			9.72948		
6 2,3,4-Trichlorophenol	9097	10192	10487	9544	8434	7513	AVRG	9211		9211			12.08938		
8 2,3,4,5-Tetrachlorophenol	18821	17682	16941	15619	14395	12814	AVRG	16045		16045			13.80447		
9 Pentachlorophenol	30850	27921	27400	25461	23902	21788	AVRG	26221		26221			12.21725		
7 2,4,6-Tribromophenol (surr)	21717	20945	20521	19940	19152	17830	AVRG	20017		20017			6.90047		

51 10 000000

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JAN-2011 18:30
 End Cal Date : 20-JAN-2011 21:31
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecd1.i/PCP20110120.b/PCP.m
 Cal Date : 21-Jan-2011 18:45 aron
 Curve Type : Average

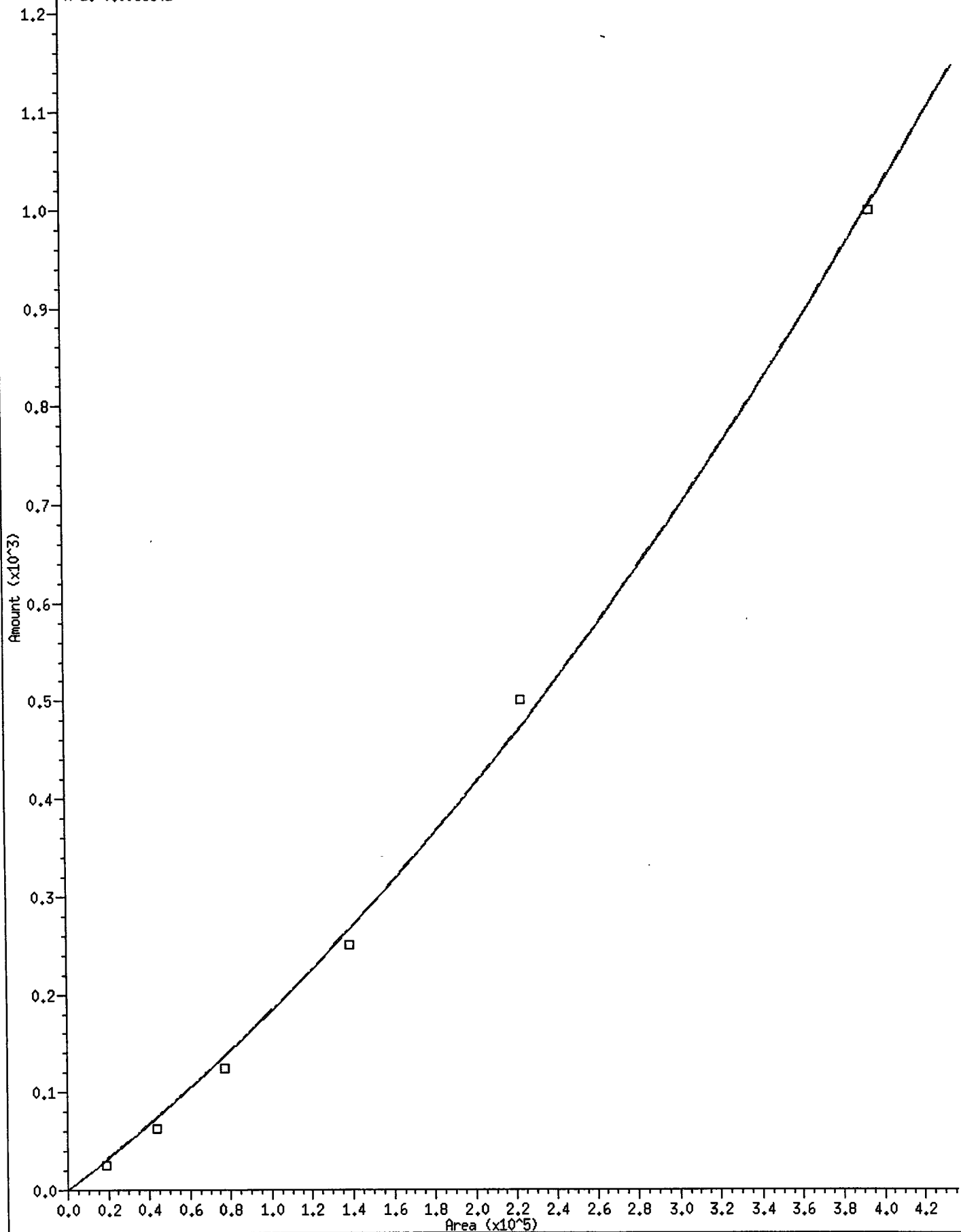
Calibration File Names:

Level 1: /chem2/ecd1.i/PCP20110120.b/ical-1.b/0120A006.d
 Level 2: /chem2/ecd1.i/PCP20110120.b/ical-1.b/0120A007.d
 Level 3: /chem2/ecd1.i/PCP20110120.b/ical-1.b/0120A008.d
 Level 4: /chem2/ecd1.i/PCP20110120.b/ical-1.b/0120A009.d
 Level 5: /chem2/ecd1.i/PCP20110120.b/ical-1.b/0120A010.d
 Level 6: /chem2/ecd1.i/PCP20110120.b/ical-1.b/0120A005.d

Compound	2.500 Level 1	6.250 Level 2	12.500 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
1 2,4-Dichlorophenol	761	695	620	554	446	396	579	24.445 <-
2 2,4,6-Trichlorophenol	15744	12080	10692	9522	8382	7514	10656	27.916 <-
3 2,3,6-Trichlorophenol	11226	10352	9490	8555	7872	7121	9103	16.990
4 2,4,5-Trichlorophenol	4759	5090	5581	4802	4424	3720	4729	13.282
5 2,3,4-Trichlorophenol	7337	7013	6996	6288	5645	4759	6340	15.557
6 2,3,5,6-Tetrachlorophenol	16883	15577	14946	13294	12138	10851	13948	16.211
8 2,3,4,5-Tetrachlorophenol	13676	11930	11231	9891	9004	7870	10600	19.847
9 Pentachlorophenol	20177	18363	17052	15360	13891	12493	16223	17.651
\$ 7 2,4,6-Tribromophenol (surr)	15206	14055	13692	12432	11498	10448	12888	13.648

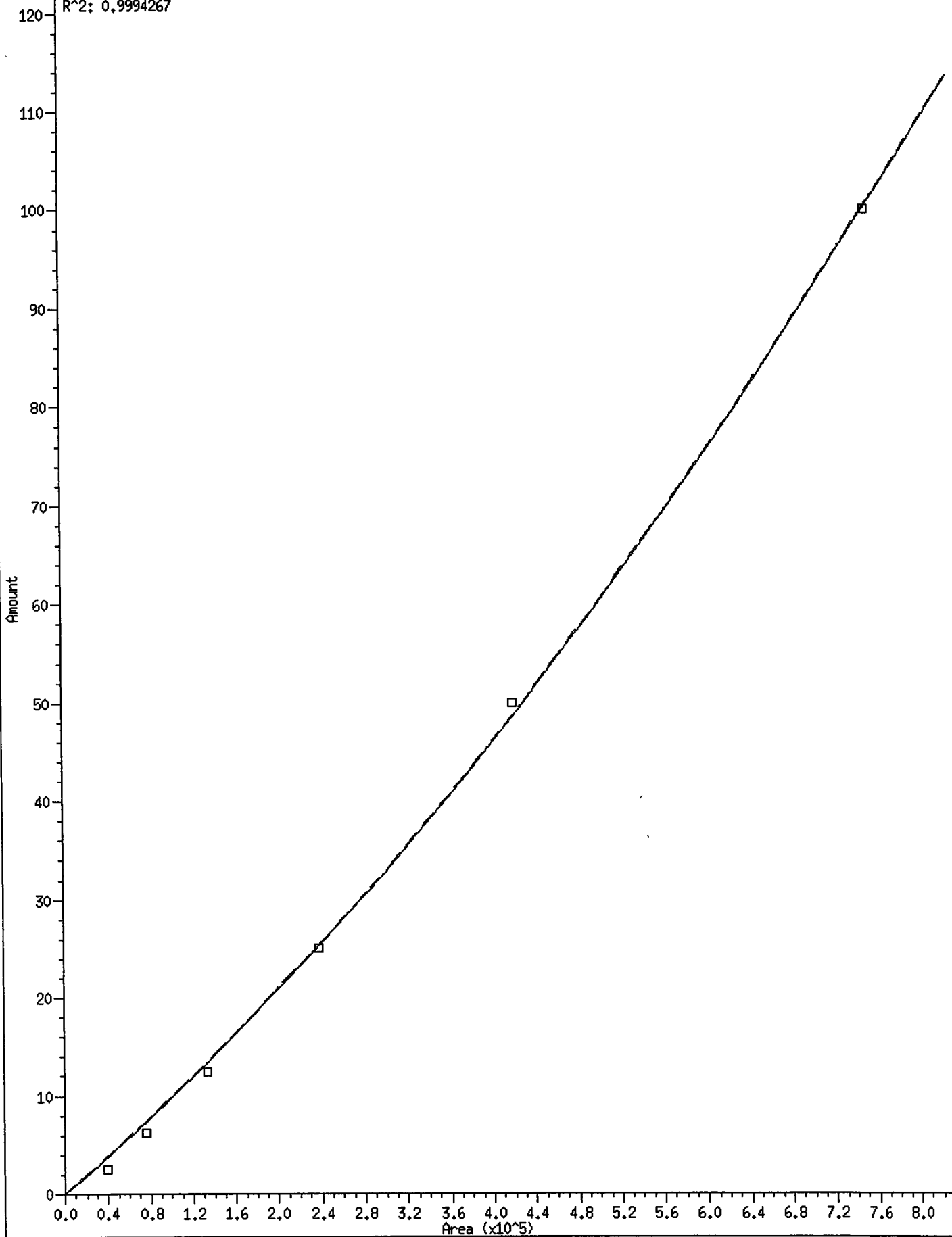
1 2,4-Dichlorophenol

Curve Type: Quadratic By-Response
Amt = 0 + 0.001580453*Rsp + 2.422177e-09*Rsp^2
R^2: 0.9983542



2,2,4,6-Trichlorophenol

Curve Type: Quadratic By-Response
Amt = 0 + 0.00009342432*Rsp + 5.345866e-11*Rsp^2
R^2: 0.9994267



Report Date : 21-Jan-2011 18:50

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JAN-2011 18:30
 End Cal Date : 20-JAN-2011 21:31
 Quant Method : ESTD
 Origin : Force
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem2/ecdl1.i/PCP20110120.b/PCP.m
 Cal Date : 21-Jan-2011 18:45 aron

Calibration File Names:
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 Level 2: /chem2/ecdl1.i/PCP20110120.b/ical-1.b/0120A007.d
 Level 3: /chem2/ecdl1.i/PCP20110120.b/ical-1.b/0120A008.d
 Level 4: /chem2/ecdl1.i/PCP20110120.b/ical-1.b/0120A009.d
 Level 5: /chem2/ecdl1.i/PCP20110120.b/ical-1.b/0120A010.d
 Level 6: /chem2/ecdl1.i/PCP20110120.b/ical-1.b/0120A005.d

Compound	Level						Level						Coefficients		%RSD or R ²
	2	6	12	25	50	100	100	6	Curve	b	m1	m2			
1 2,4-Dichlorophenol	19023	43440	77546	138468	222950	396131	QUAD	0.00158	2.422e-09	0.000e+00	0.00158	2.422e-09	0.99835		
2 2,4,6-Trichlorophenol	39359	75503	133651	238039	419125	751393	QUAD	0.00009	5.346e-11	0.000e+00	0.00009	5.346e-11	0.99943		
3 2,3,6-Trichlorophenol	11226	10352	9490	8555	7872	7121	AVRG				9103		16.98972		
4 2,4,5-Trichlorophenol	4759	5090	5581	4802	4424	3720	AVRG				4729		13.28154		
5 2,3,4-Trichlorophenol	7337	7013	6996	6288	5645	4759	AVRG				6340		15.55749		
6 2,3,5,6-Tetrachlorophenol	16883	15577	14946	13294	12138	10851	AVRG				13948		16.21122		
8 2,3,4,5-Tetrachlorophenol	13676	11930	11231	9891	9004	7870	AVRG				10600		19.84715		
9 Pentachlorophenol	20177	18363	17052	15360	13891	12493	AVRG				16223		17.65051		
7 2,4,6-Tribromophenol (surr)	15206	14055	13692	12432	11498	10448	AVRG				12888		13.64786		

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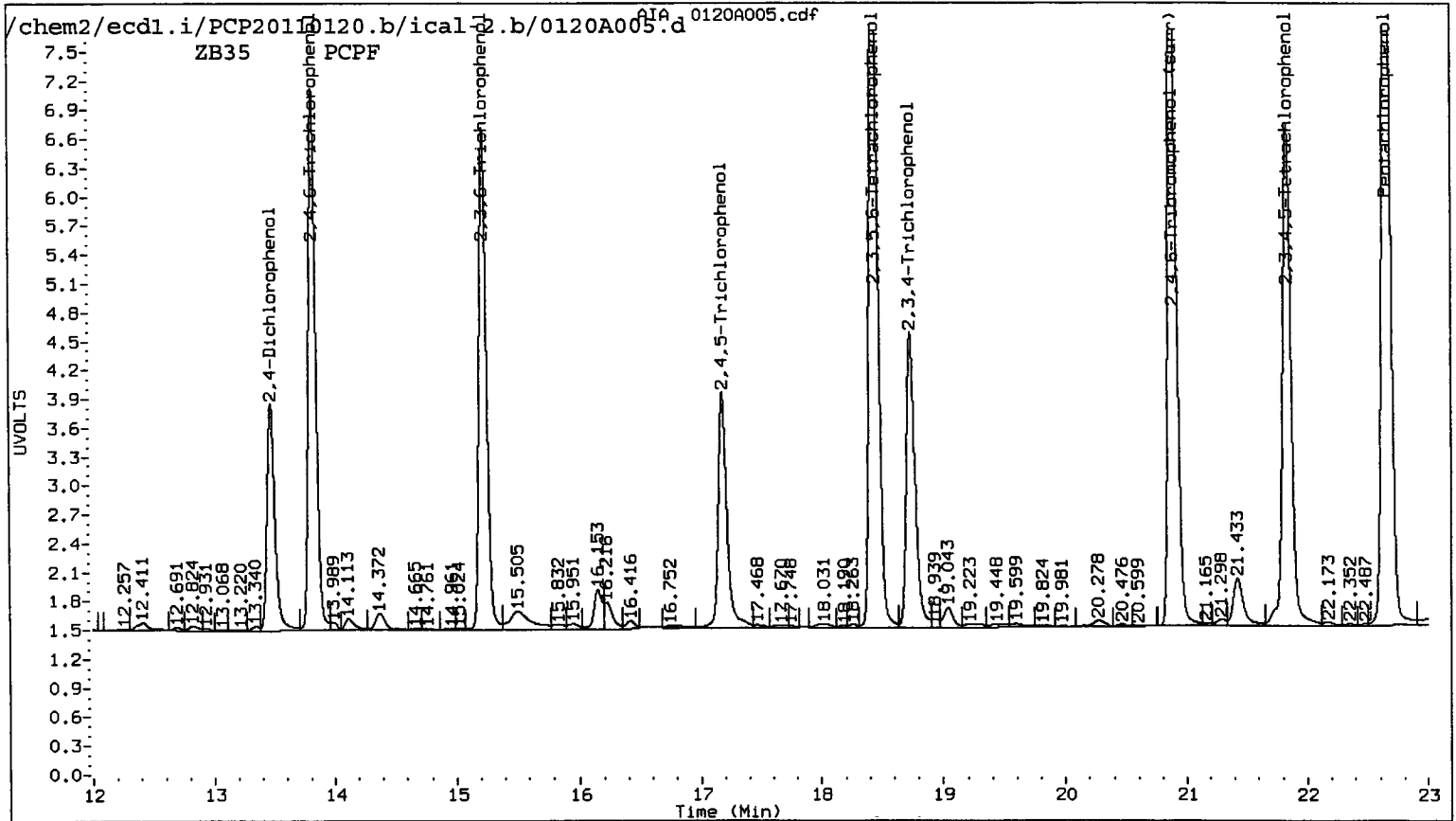
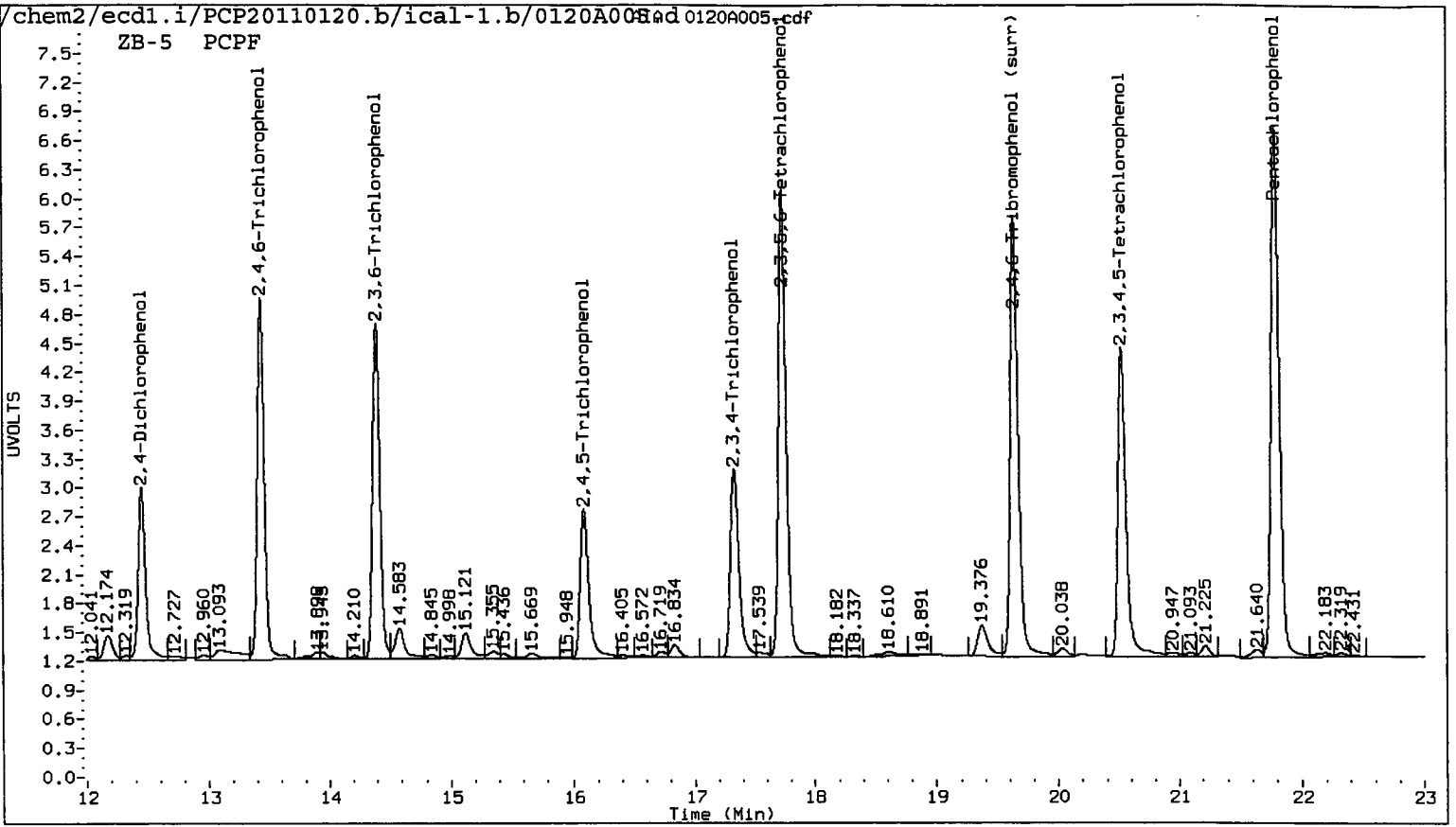
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

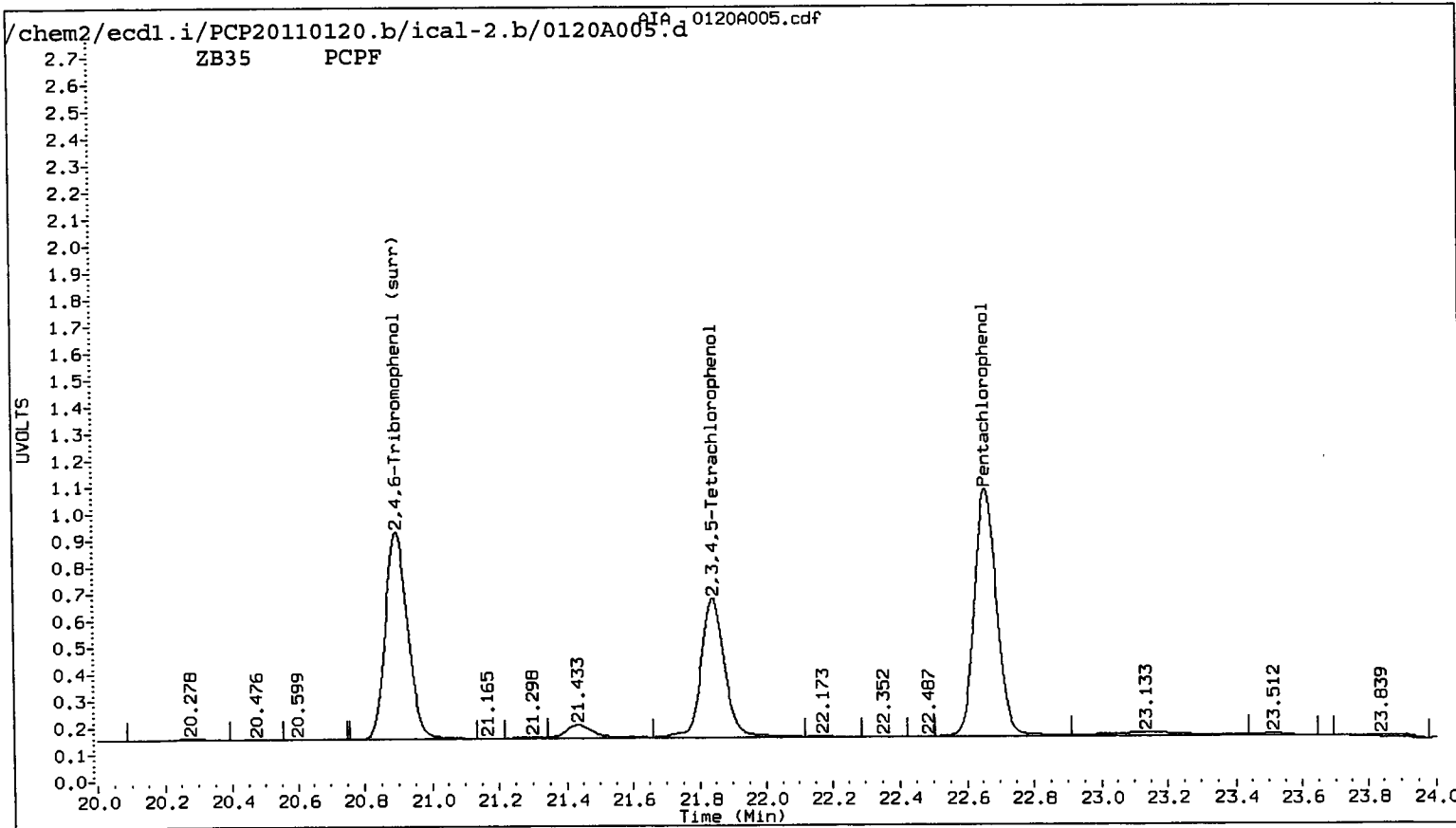
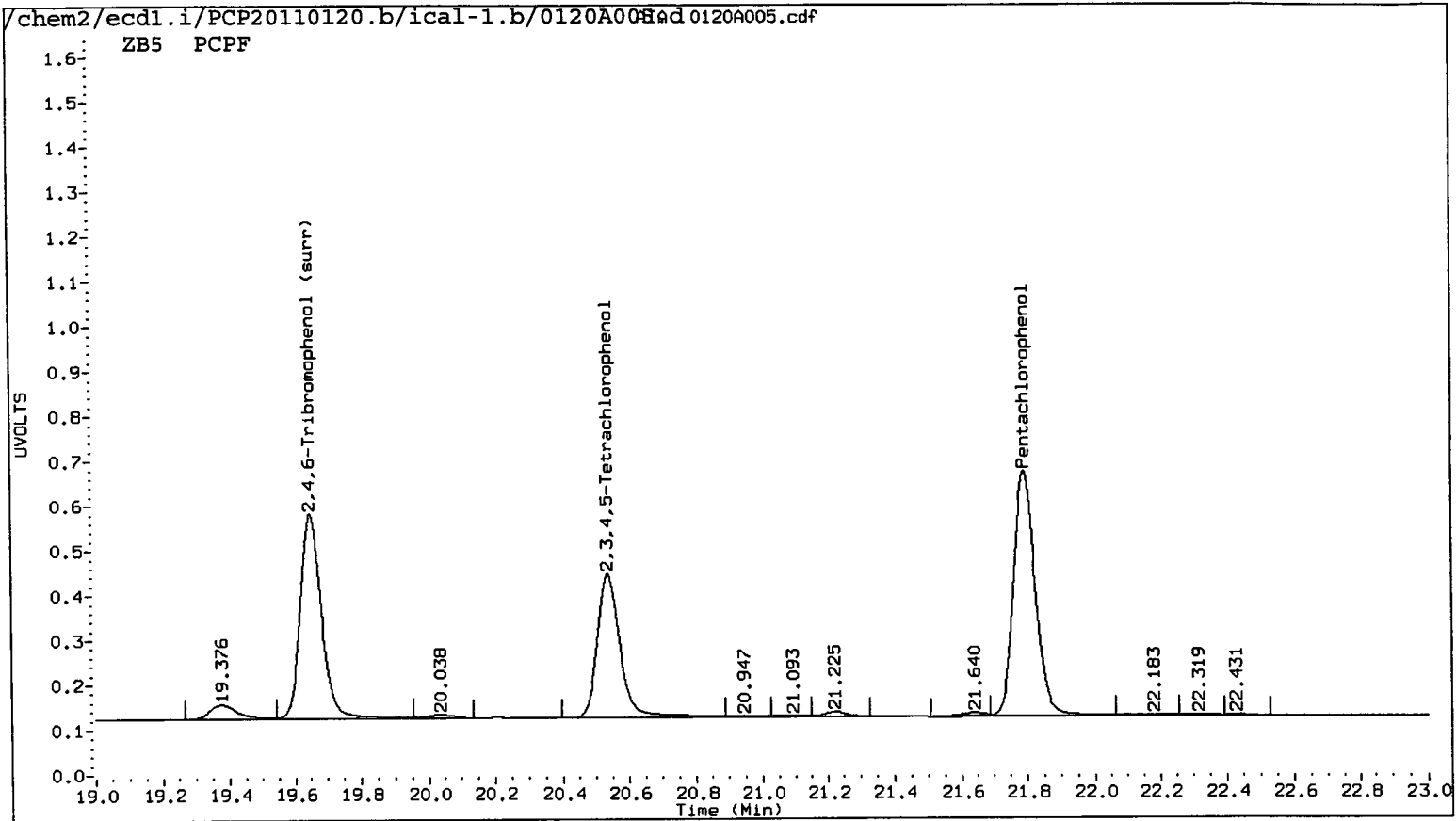
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 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 20-JAN-2011 18:30
 Compound Sublist: all Report Date: 01/21/2011 18:51
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
21.794	-0.005	1249271	22.658	-0.004	2178836	77.0084	83.0964	7.6	Pentachlorophenol
13.430	0.000	751393	13.817	0.000	1191741	100.3807	80.6825	21.8	2,4,6-Trichlorophenol
14.397	-0.001	712136	15.223	0.000	1136595	78.2326	82.8097	5.7	2,3,6-Trichlorophenol
16.093	-0.018	372043	17.181	-0.011	626805	78.6663	77.8188	1.1	2,4,5-Trichlorophenol
17.334	-0.022	475889	18.742	-0.013	751330	75.0643	81.5683	8.3	2,3,4-Trichlorophenol
17.734	-0.006	1085061	18.446	-0.005	1794809	77.7931	85.0800	8.9	2,3,5,6-Tetrachloropheno
20.536	-0.012	787035	21.840	-0.007	1281425	74.2461	79.8621	7.3	2,3,4,5-Tetrachlorophenol
12.451	-0.002	396131	13.466	-0.002	543068	1006.1539	1004.0884	0.2	2,4-Dichlorophenol
19.650	-0.010	1044820	20.896	-0.006	1783036	81.1	89.1	9.4	2,4,6-Tribromophenol (sur

PERCENT RECOVERY

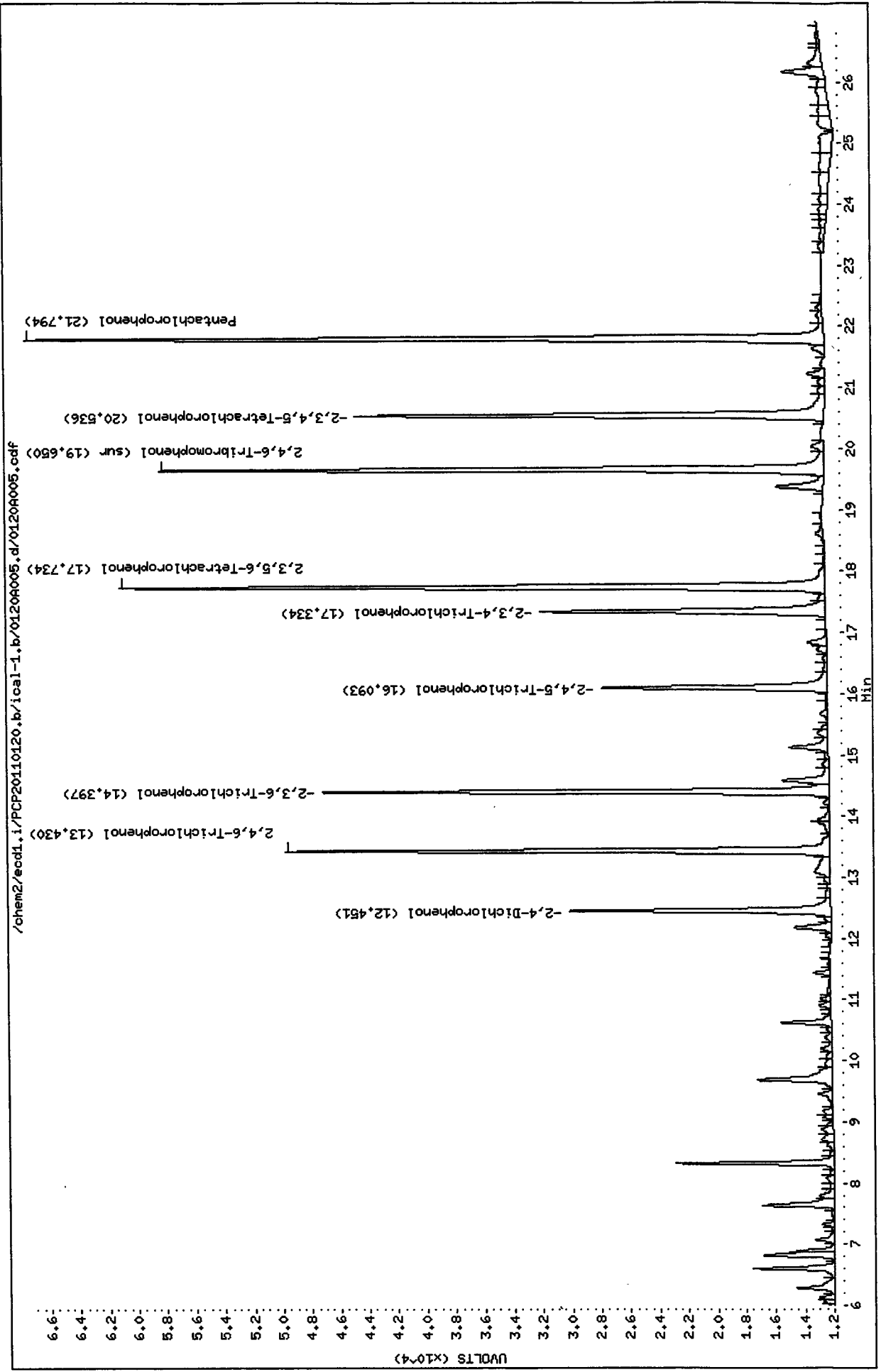
COMPOUND	Col1	Col2
2,4,6-TBP (surr)	324.3	356.3





Data File: /chem2/ecdl1/PCP20110120.b/ical-1.b/0120A005.d
Date : 20-JAN-2011 18:30
Client ID:
Sample Info: PCPF
Purge Volume: 2.0
Column phase: ZB5

Instrument: ecdl1.i
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecdl.i/PCP20110120.b/ical-2.b/0120R005.d
Date: 20-JAN-2011 18:30

Client ID:

Sample Info: PCPF

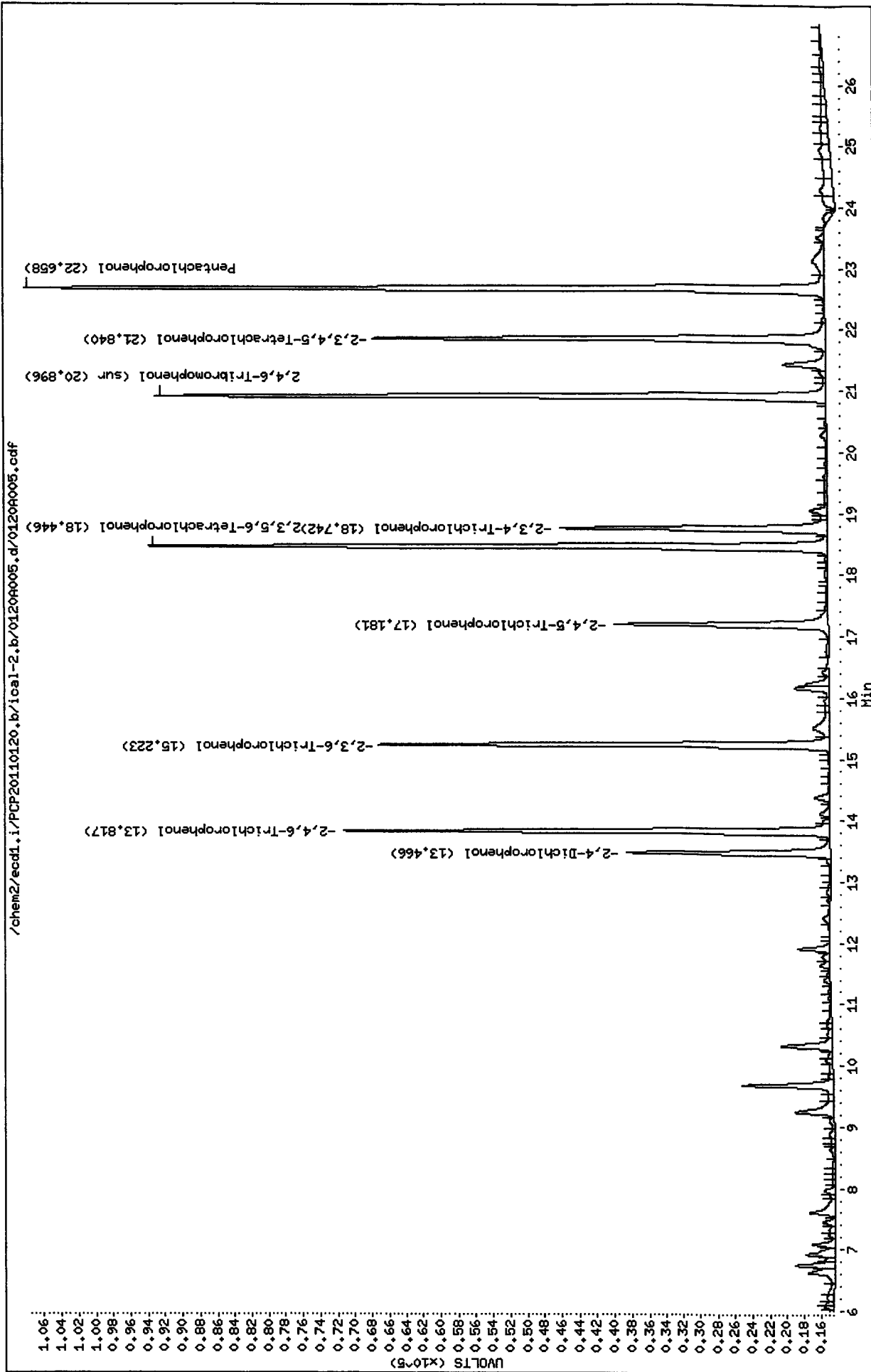
Purge Volume: 2.0

Column phase: ZB35

Instrument: eccl.i

Operator: ar

Column diameter: 0.53



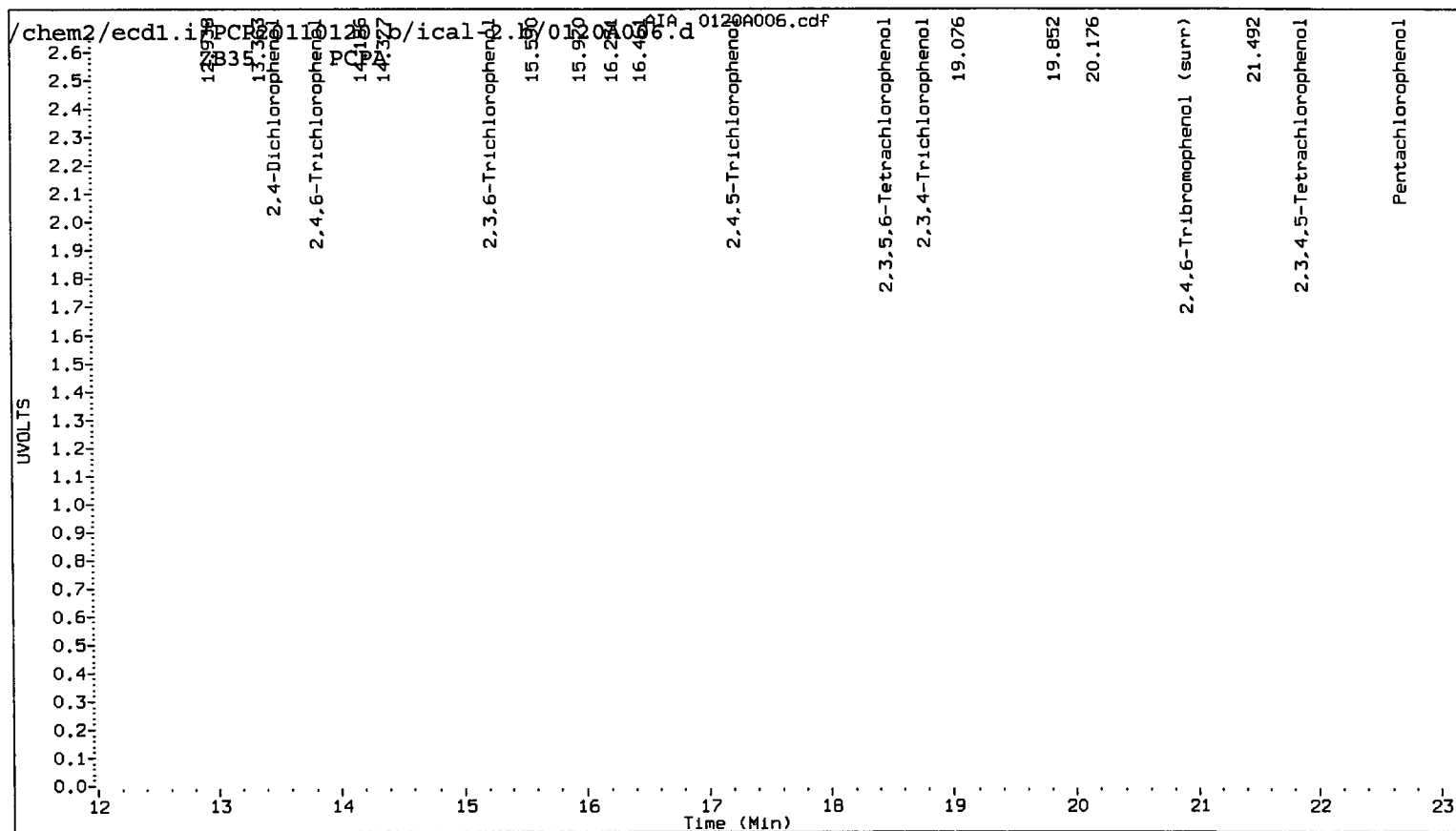
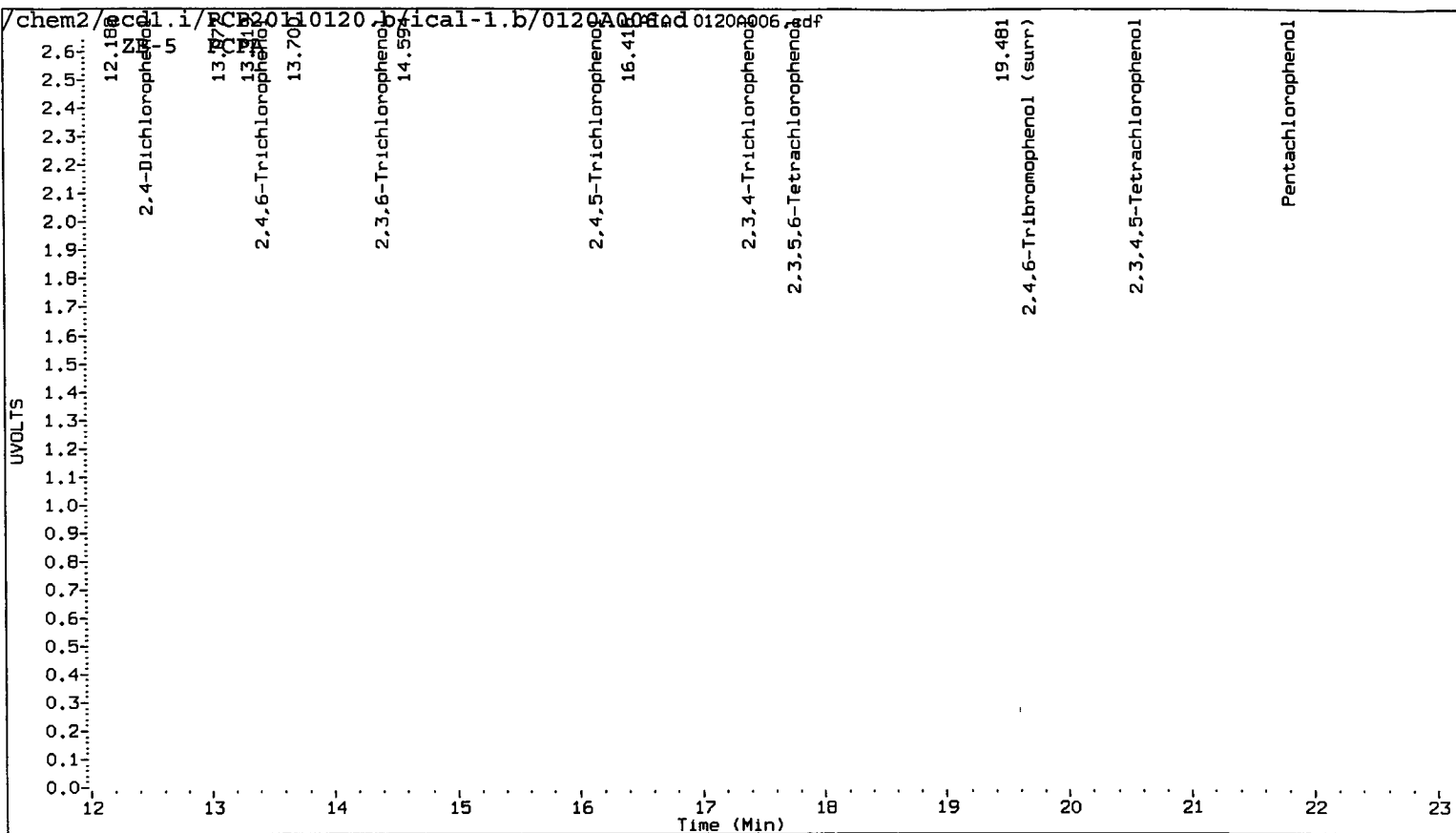
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/PCP20110120.b/ical-1.b/0120A006.d ARI ID: PCPA
 Data file 2: /chem2/ecdl.i/PCP20110120.b/ical-2.b/0120A006.d Client ID:
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 20-JAN-2011 19:06
 Compound Sublist: all Report Date: 01/21/2011 18:51
 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		
21.813	0.015	50442	22.673	0.012	77125	3.1094	2.9414	5.6	Pentachlorophenol
13.433	0.003	39359	13.820	0.003	42573	3.7599	2.8822	26.4	2,4,6-Trichlorophenol
14.407	0.009	28064	15.230	0.007	38917	3.0830	2.8354	8.4	2,3,6-Trichlorophenol
16.153	0.043	11897	17.222	0.030	23413	2.5155	2.9068	14.4	2,4,5-Trichlorophenol
17.400	0.044	18343	18.784	0.029	22742	2.8933	2.4690	15.8	2,3,4-Trichlorophenol
17.765	0.025	42208	18.470	0.019	58693	3.0261	2.7822	8.4	2,3,5,6-Tetrachlorophenol
20.573	0.025	34191	21.865	0.019	47053	3.2255	2.9325	9.5	2,3,4,5-Tetrachlorophenol
12.462	0.009	19023	13.477	0.009	24768	30.9415	25.7399	18.4	2,4-Dichlorophenol
19.687	0.027	38014	20.920	0.017	54292	2.9	2.7	8.4	2,4,6-Tribromophenol (surr)

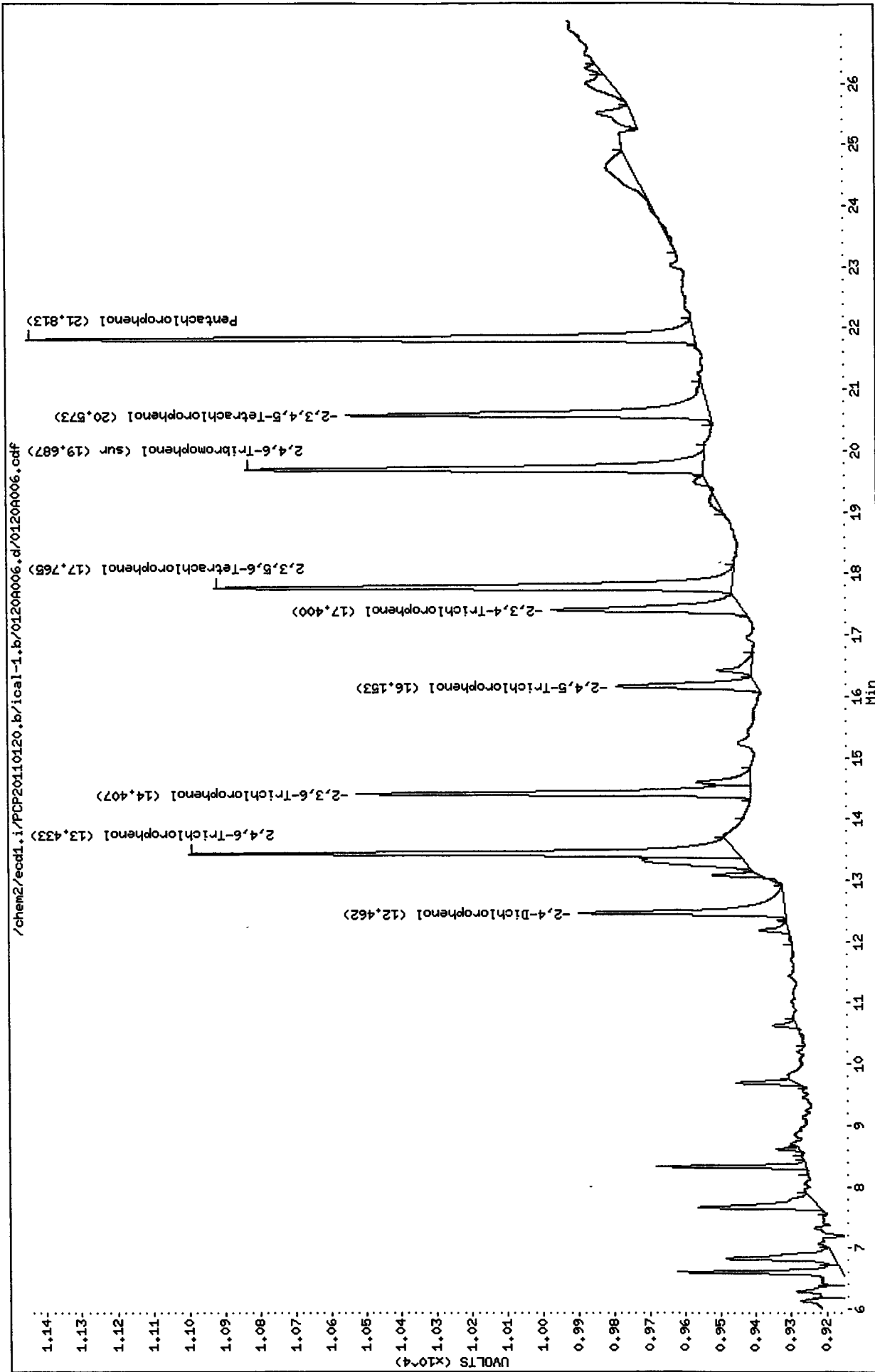
PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	11.8	10.8



Data File: /chem2/ecdl.i/PCP20110120.b/ical-1.b/0120R006.d
Date : 20-JAN-2011 19:06
Client ID:
Sample Info: PCPA
Purge Volume: 2.0
Column phase: ZB5

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



Data File: /chem2/ecdl.i/PCP20110120.b/ical-2.b/0120A006.d

Date : 20-JAN-2011 19:06

Client ID:

Sample Info: PCPA

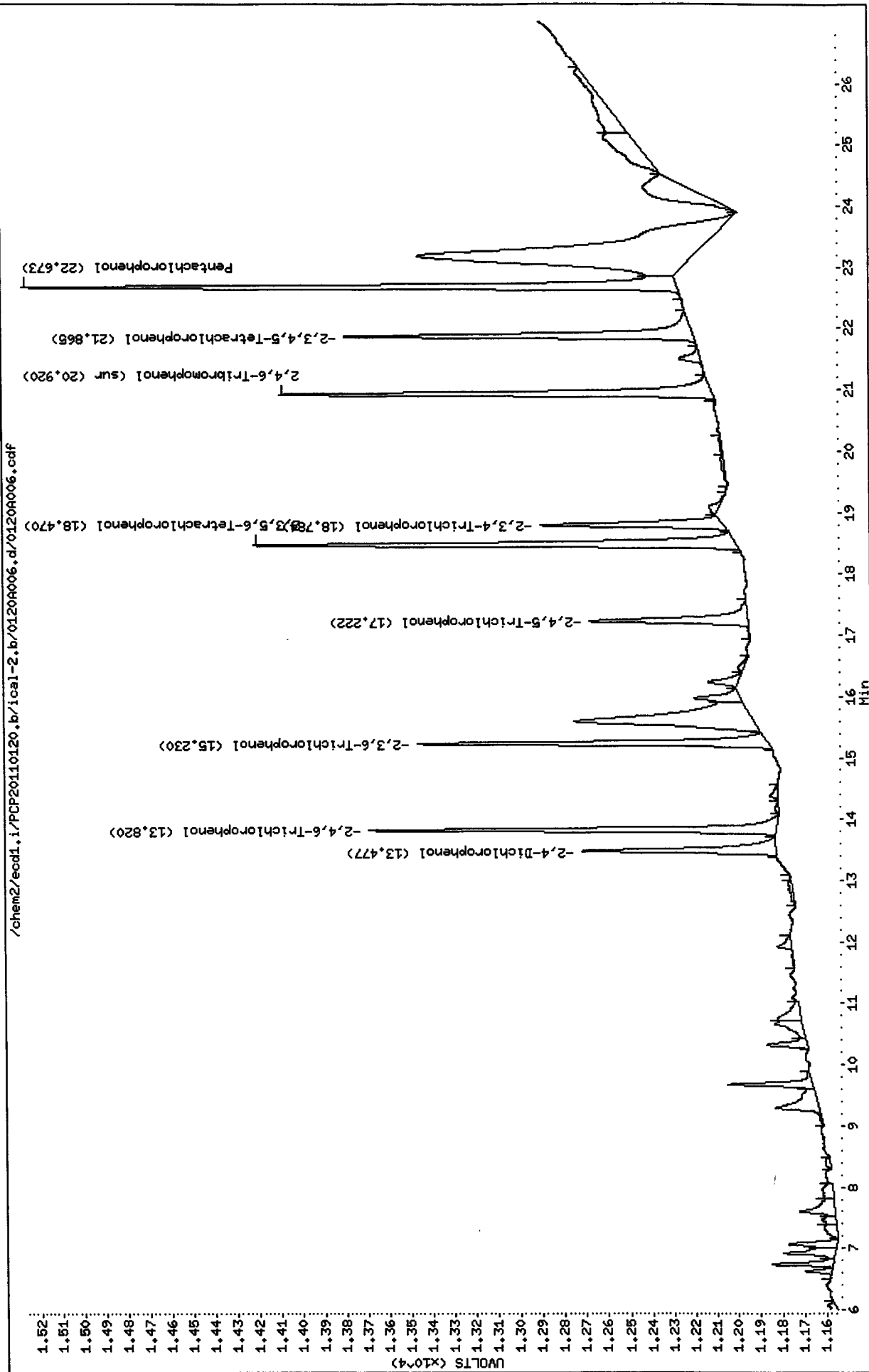
Purge Volume: 2.0

Column phase: ZB35

Instrument: ecdl.i

Operator: ar

Column diameter: 0.53



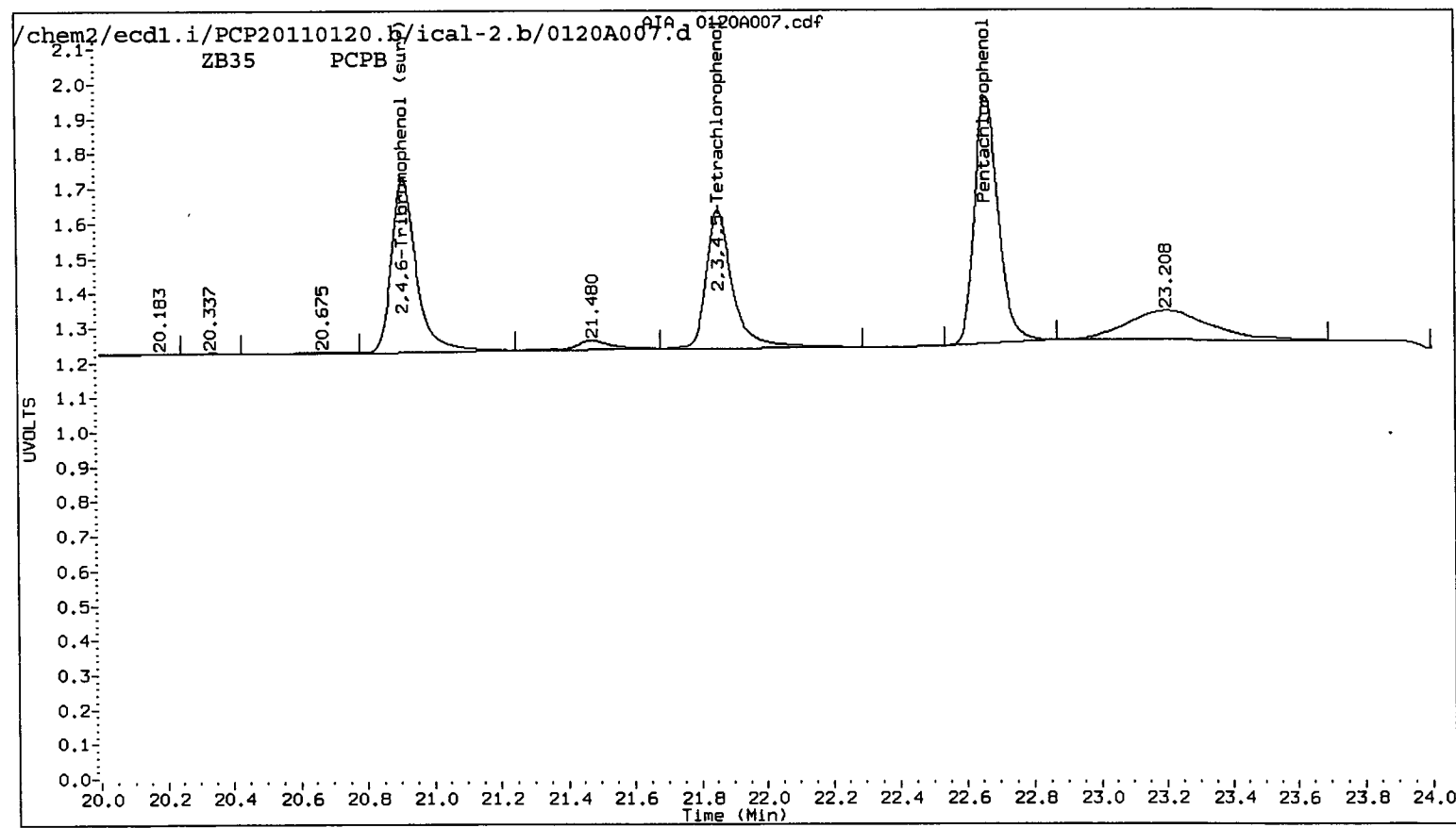
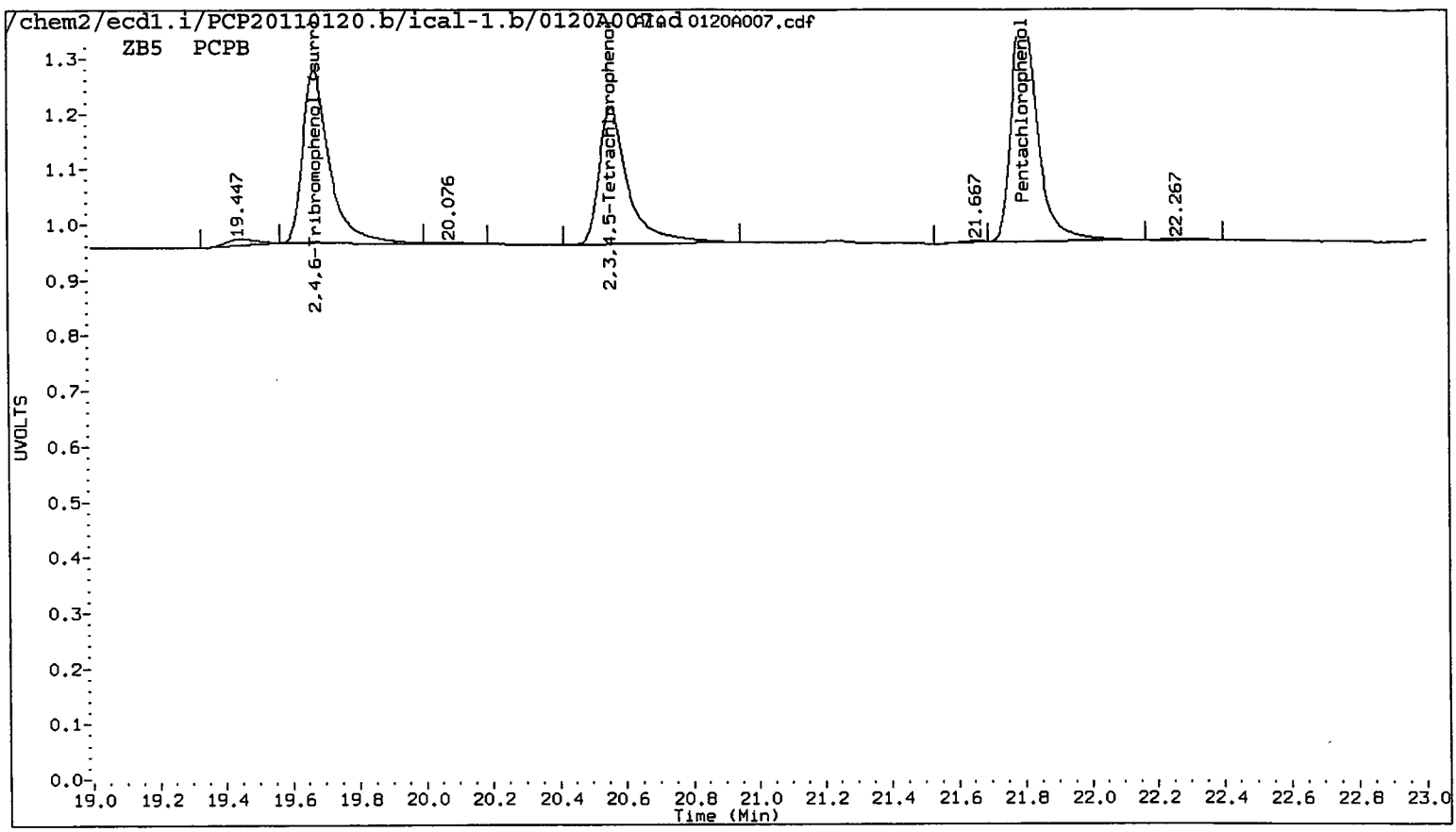
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/PCP20110120.b/ical-1.b/0120A007.d ARI ID: PCPB
 Data file 2: /chem2/ecdl.i/PCP20110120.b/ical-2.b/0120A007.d Client ID:
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 20-JAN-2011 19:43
 Compound Sublist: all Report Date: 01/21/2011 18:51
 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		
21.807	0.008	114766	22.667	0.005	174506	7.0745	6.6553	6.1	Pentachlorophenol
13.431	0.001	75503	13.819	0.002	100718	7.3586	6.8187	7.6	2,4,6-Trichlorophenol
14.400	0.002	64703	15.227	0.004	93140	7.1080	6.7860	4.6	2,3,6-Trichlorophenol
16.137	0.026	31812	17.211	0.019	55438	6.7265	6.8827	2.3	2,4,5-Trichlorophenol
17.383	0.028	43831	18.773	0.018	63697	6.9137	6.9153	0.0	2,3,4-Trichlorophenol
17.754	0.014	97355	18.461	0.010	140531	6.9798	6.6616	4.7	2,3,5,6-Tetrachlorophenol
20.563	0.015	74562	21.858	0.012	110510	7.0339	6.8873	2.1	2,3,4,5-Tetrachlorophenol
12.458	0.005	43440	13.473	0.005	56927	73.2256	62.0208	16.6	2,4-Dichlorophenol
19.675	0.015	87844	20.914	0.011	130904	6.8	6.5	4.1	2,4,6-Tribromophenol (surr)

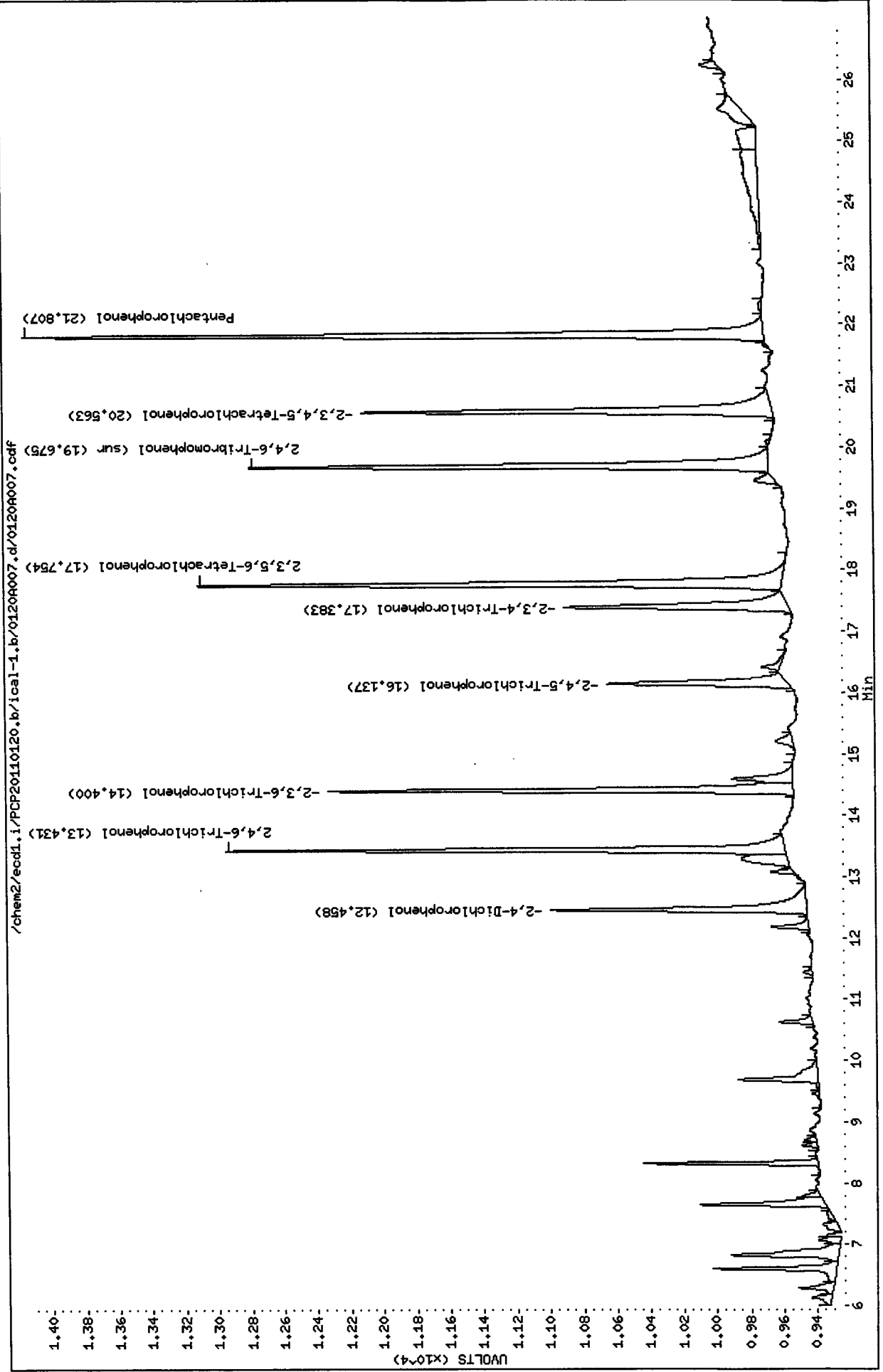
PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	27.3	26.2



Data File: /chem2/ecdl.i/PCP20110120.b/ical-1.b/0120A007.d
Date : 20-JAN-2011 19:43
Client ID:
Sample Info: PCPB
Purge Volume: 2.0
Column phase: ZB5

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



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Data File: /chem2/ecdl.i/PCP20110120.b/ical-2.b/0120A007.d

Date : 20-JAN-2011 19:43

Client ID:

Sample Info: PCPB

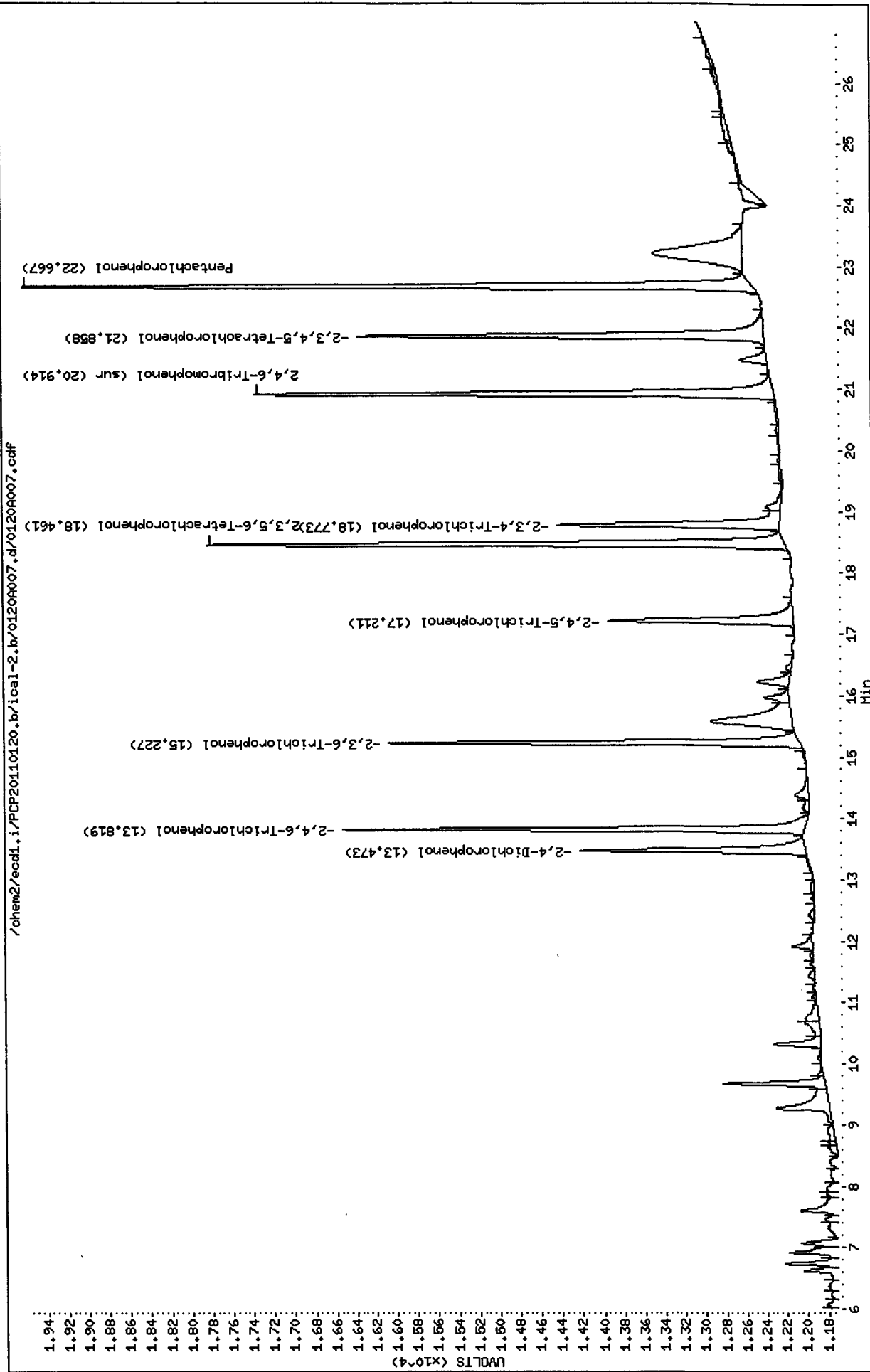
Purge Volume: 2.0

Column phase: ZB35

Instrument: eccl.i

Operator: ar

Column diameter: 0.53



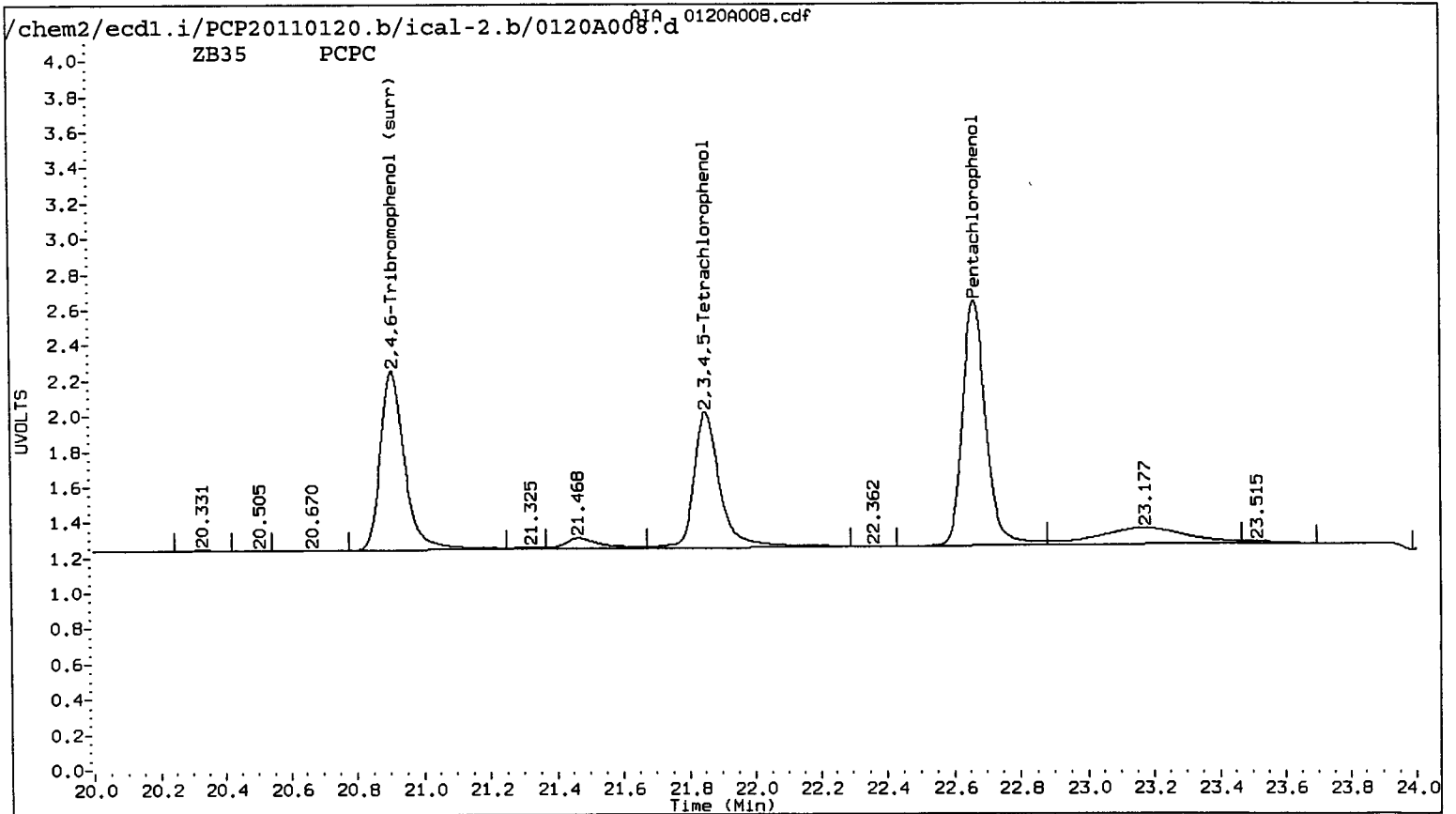
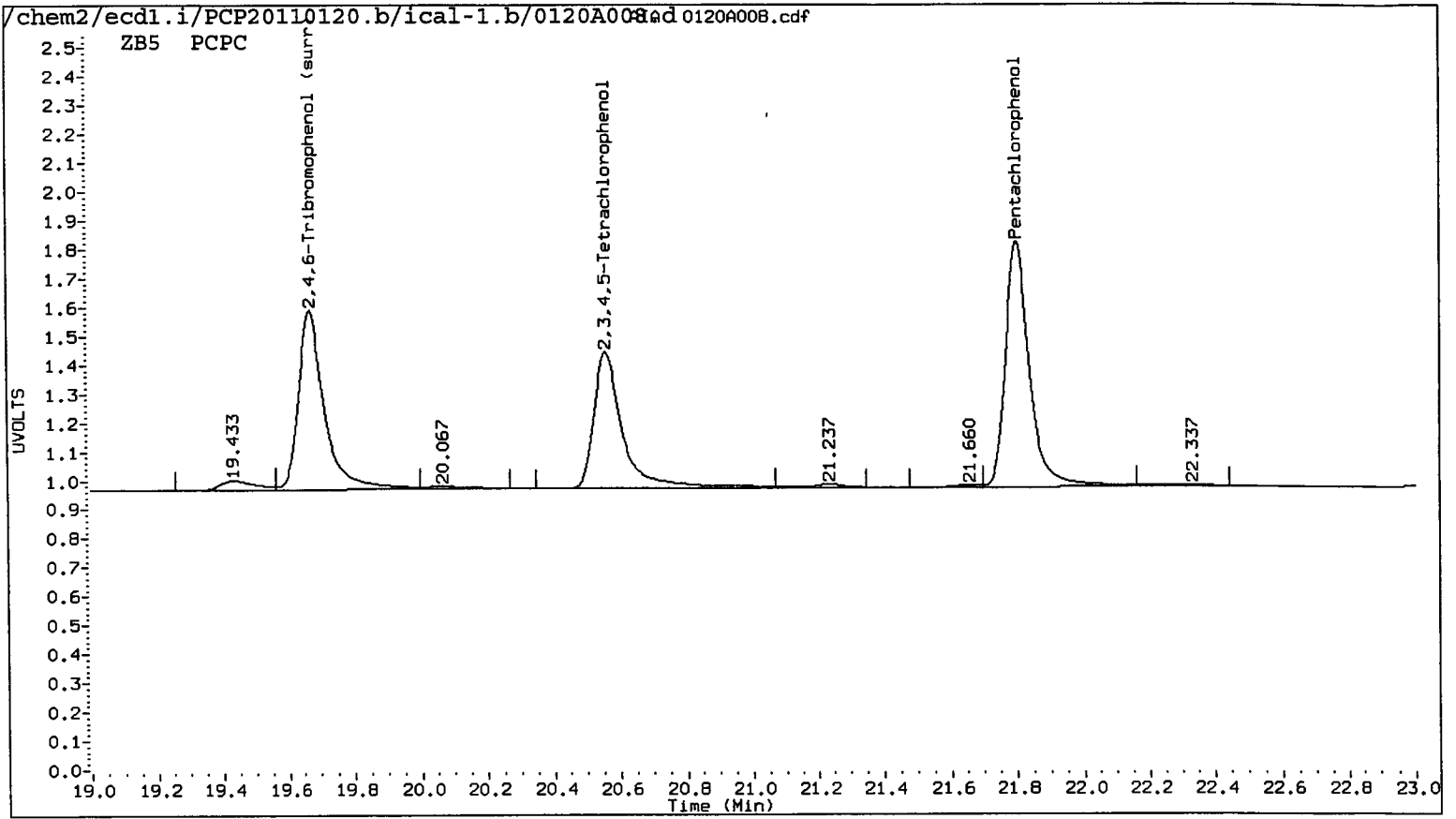
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

Data file 1: /chem2/ecdl.i/PCP20110120.b/ical-1.b/0120A008.d ARI ID: PCPC
 Data file 2: /chem2/ecdl.i/PCP20110120.b/ical-2.b/0120A008.d Client ID:
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 20-JAN-2011 20:19
 Compound Sublist: all Report Date: 01/21/2011 18:51
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

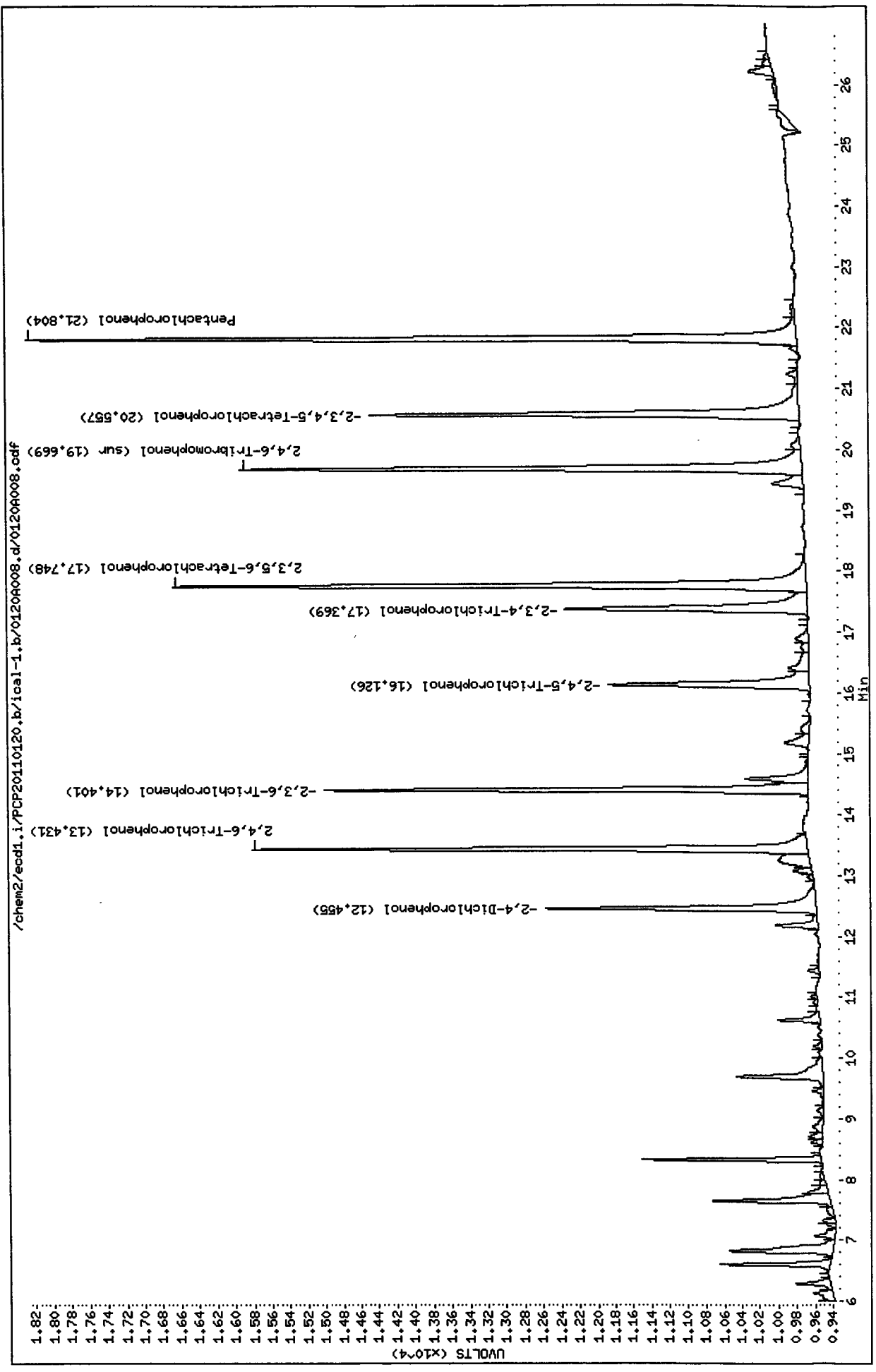
ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
21.804	0.006	213146	22.665	0.004	342505	13.1389	13.0625	0.6	Pentachlorophenol
13.431	0.001	133651	13.818	0.002	197972	13.4412	13.4030	0.3	2,4,6-Trichlorophenol
14.401	0.003	118630	15.226	0.002	181904	13.0322	13.2531	1.7	2,3,6-Trichlorophenol
16.126	0.015	69763	17.202	0.010	111520	14.7510	13.8454	6.3	2,4,5-Trichlorophenol
17.369	0.014	87456	18.764	0.009	131090	13.7949	14.2318	3.1	2,3,4-Trichlorophenol
17.748	0.008	186828	18.455	0.005	277257	13.3946	13.1429	1.9	2,3,5,6-Tetrachlorophenol
20.557	0.009	140383	21.852	0.006	211768	13.2432	13.1980	0.3	2,3,4,5-Tetrachlorophenol
12.455	0.002	77546	13.471	0.003	119123	137.1233	141.3563	3.0	2,4-Dichlorophenol
19.669	0.009	171145	20.909	0.006	256517	13.3	12.8	3.6	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	53.1	51.3

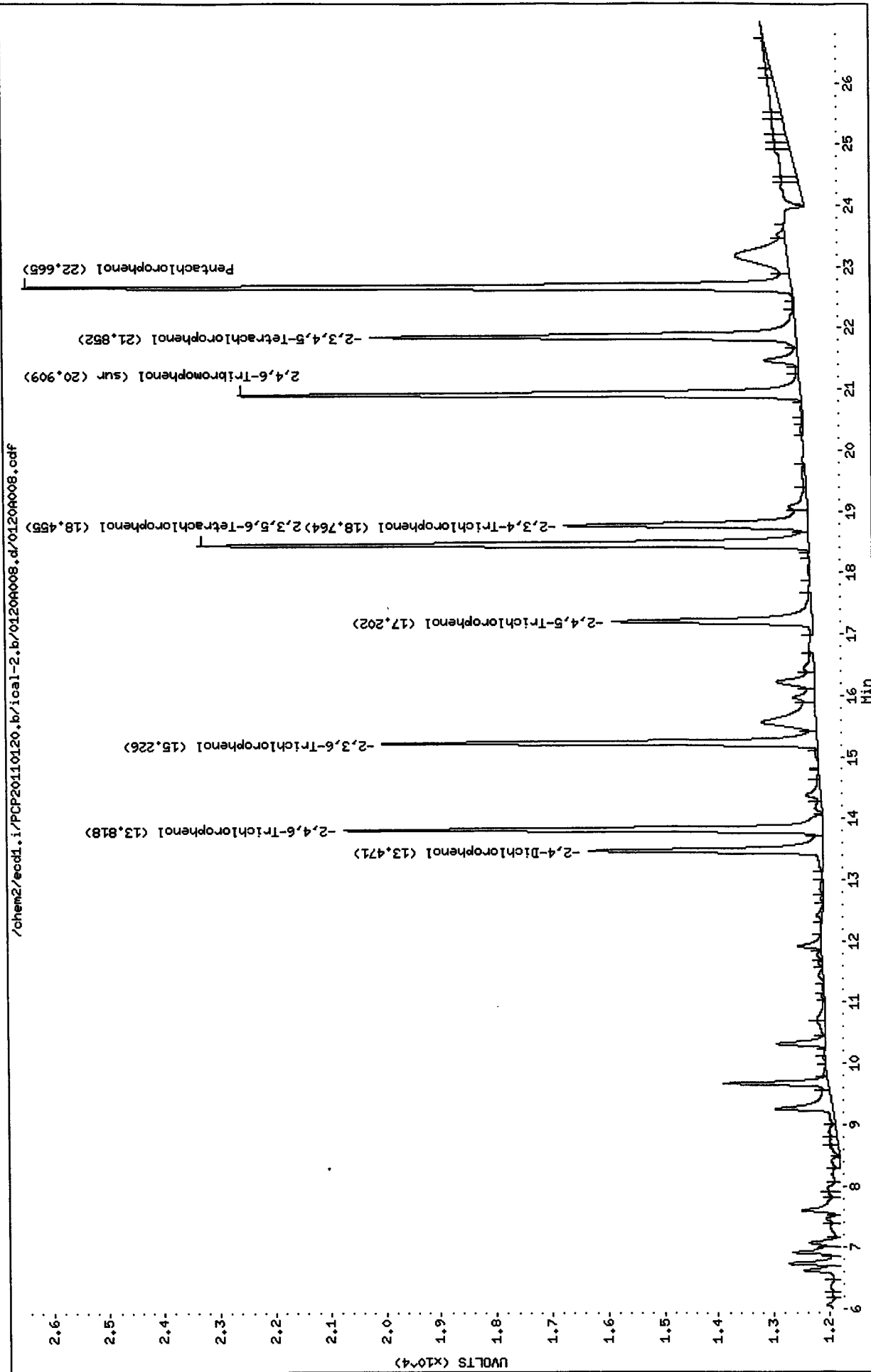


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Date : 20-JAN-2011 20:19
Client ID:
Sample Info: PCPC
Purge Volume: 2.0
Column phase: ZB5
Instrument: ecdl.i
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecdl.i/PCP20110120.b/ical-2.b/0120A008.d
Date : 20-JAN-2011 20:19
Client ID:
Sample Info: PCPC
Purge Volume: 2.0
Column phase: ZB35

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



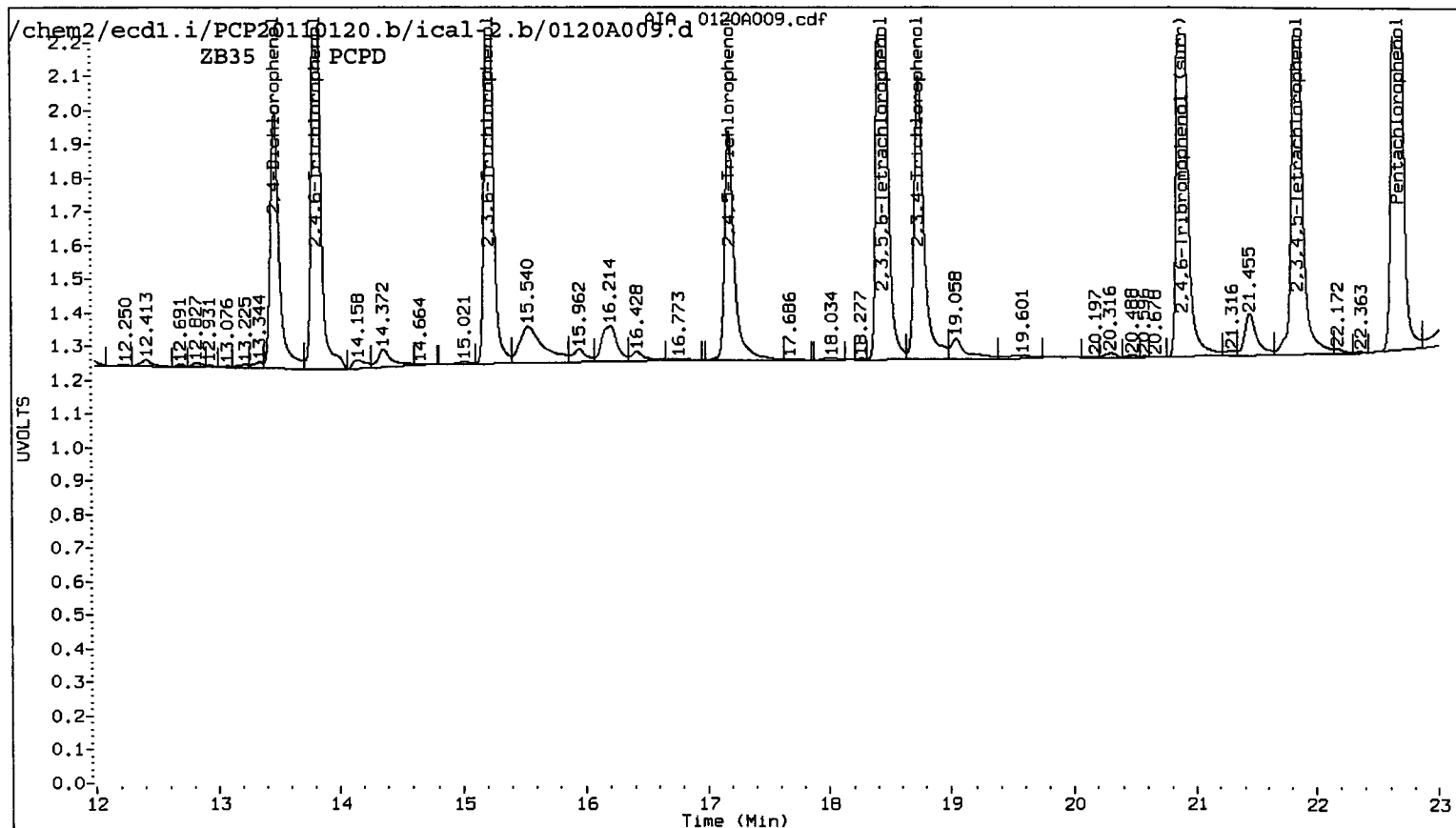
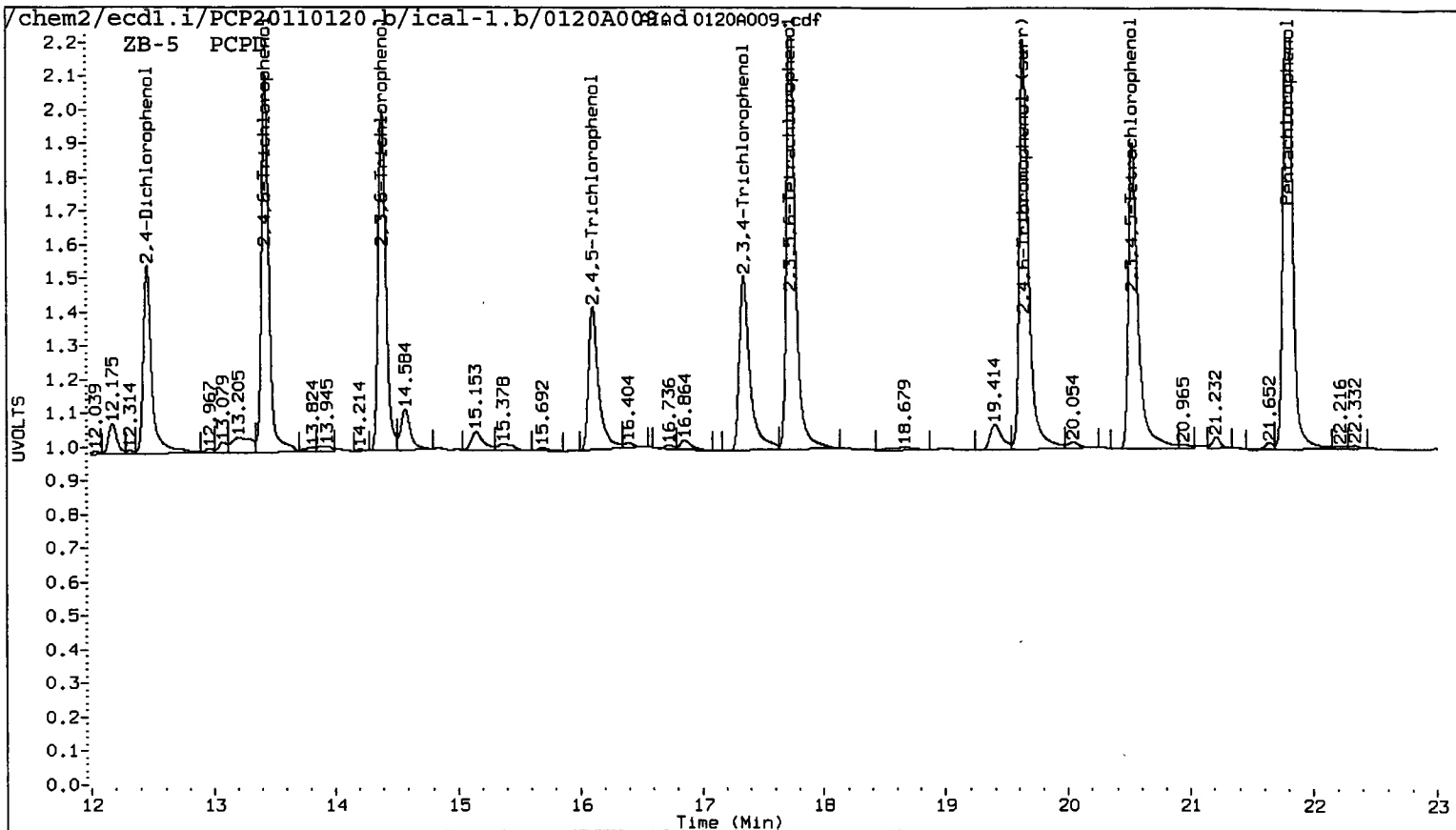
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

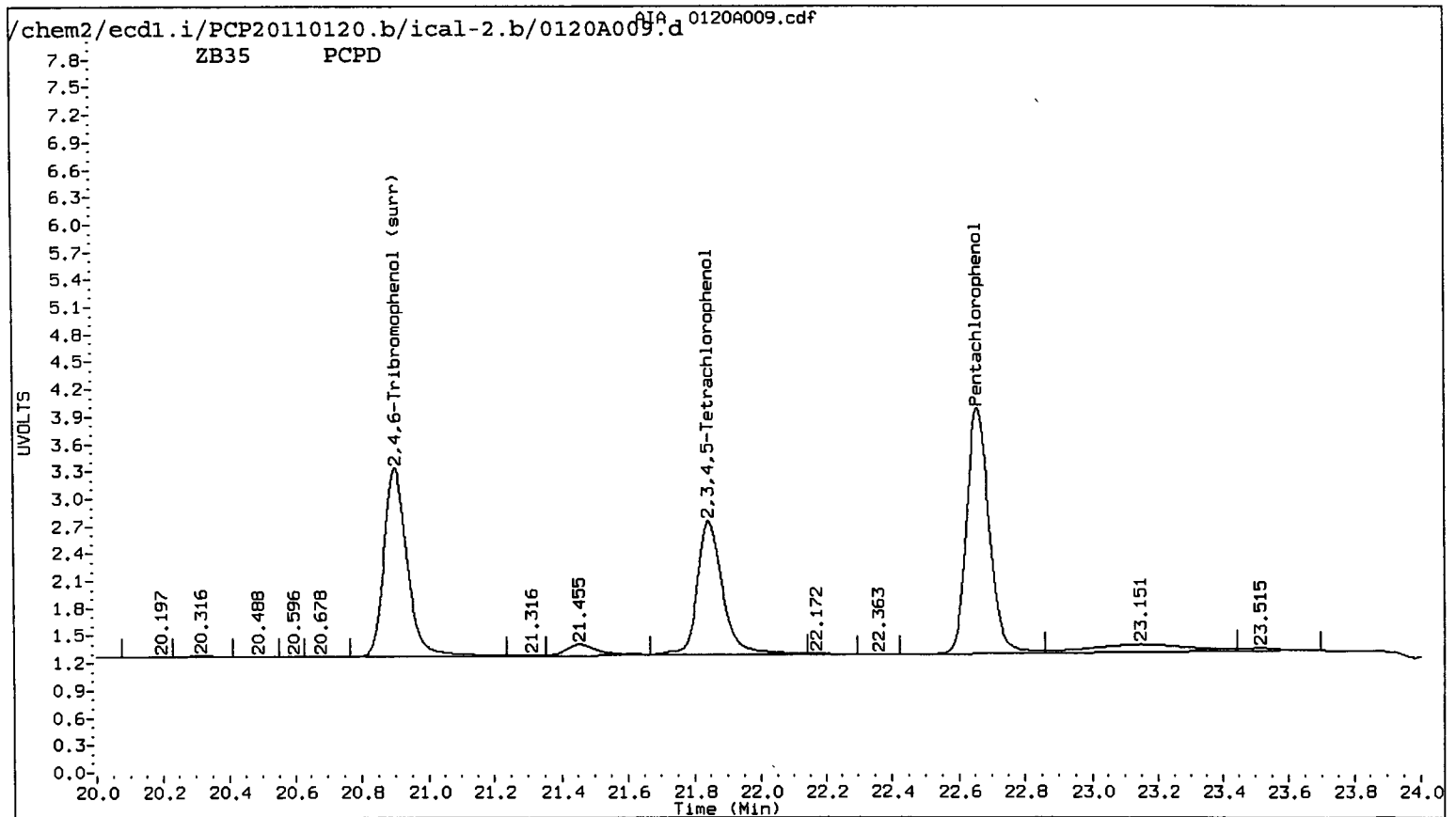
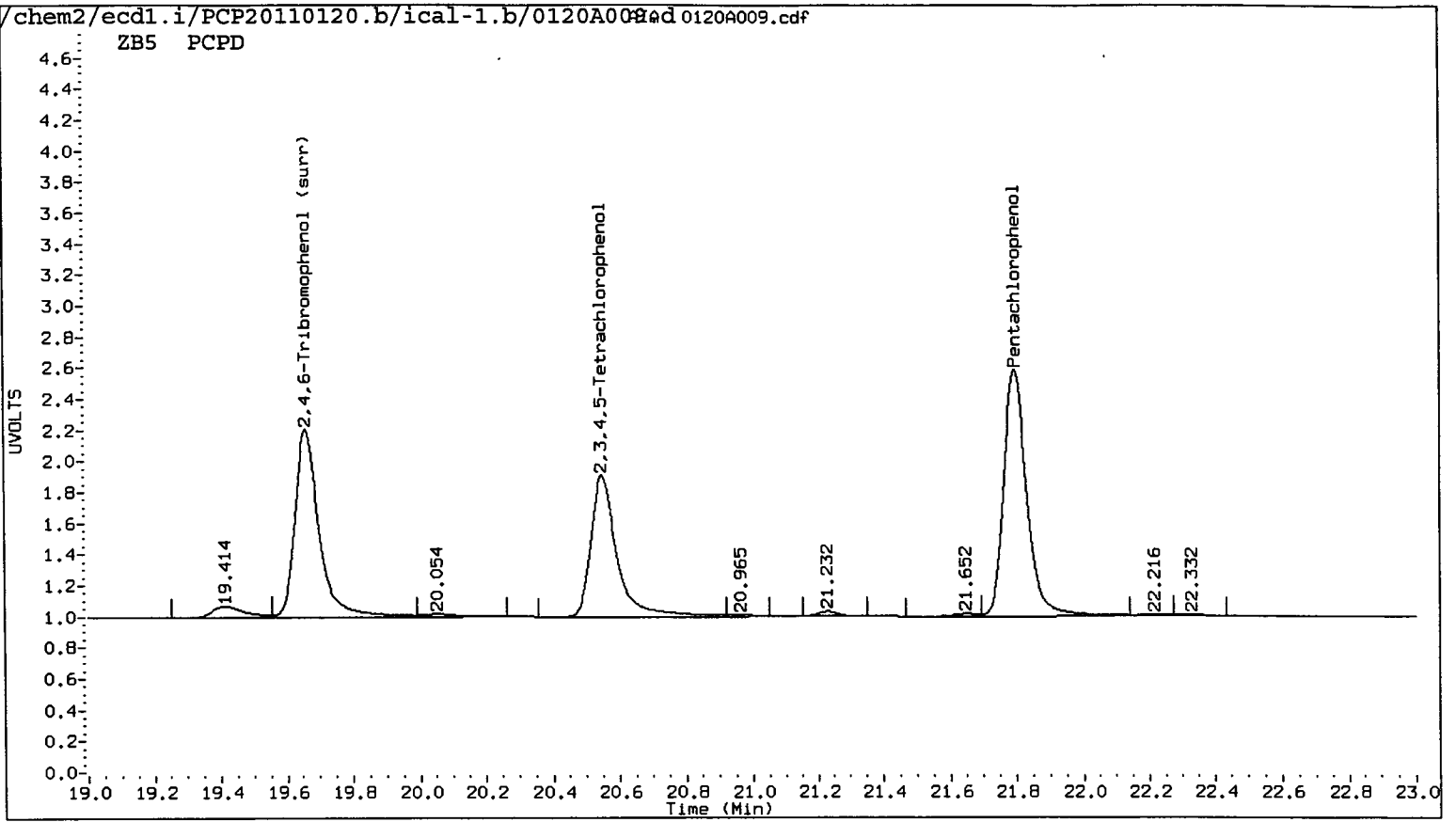
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 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 20-JAN-2011 20:55
 Compound Sublist: all Report Date: 01/21/2011 18:51
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
21.798	0.000	384007	22.661	0.000	636533	23.6712	24.2761	2.5	Pentachlorophenol
13.430	0.000	238039	13.817	0.000	366424	25.2677	24.8074	1.8	2,4,6-Trichlorophenol
14.398	0.000	213869	15.223	0.000	336785	23.4948	24.5374	4.3	2,3,6-Trichlorophenol
16.111	0.000	120055	17.192	0.000	194890	25.3849	24.1959	4.8	2,4,5-Trichlorophenol
17.356	0.000	157201	18.755	0.000	238593	24.7961	25.9029	4.4	2,3,4-Trichlorophenol
17.740	0.000	332341	18.451	0.000	522960	23.8271	24.7901	4.0	2,3,5,6-Tetrachlorophenol
20.548	0.000	247263	21.846	0.000	390486	23.3259	24.3362	4.2	2,3,4,5-Tetrachlorophenol
12.453	0.000	138468	13.468	0.000	194600	265.2835	253.8654	4.4	2,4-Dichlorophenol
19.660	0.000	310797	20.903	0.000	498488	24.1	24.9	3.2	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

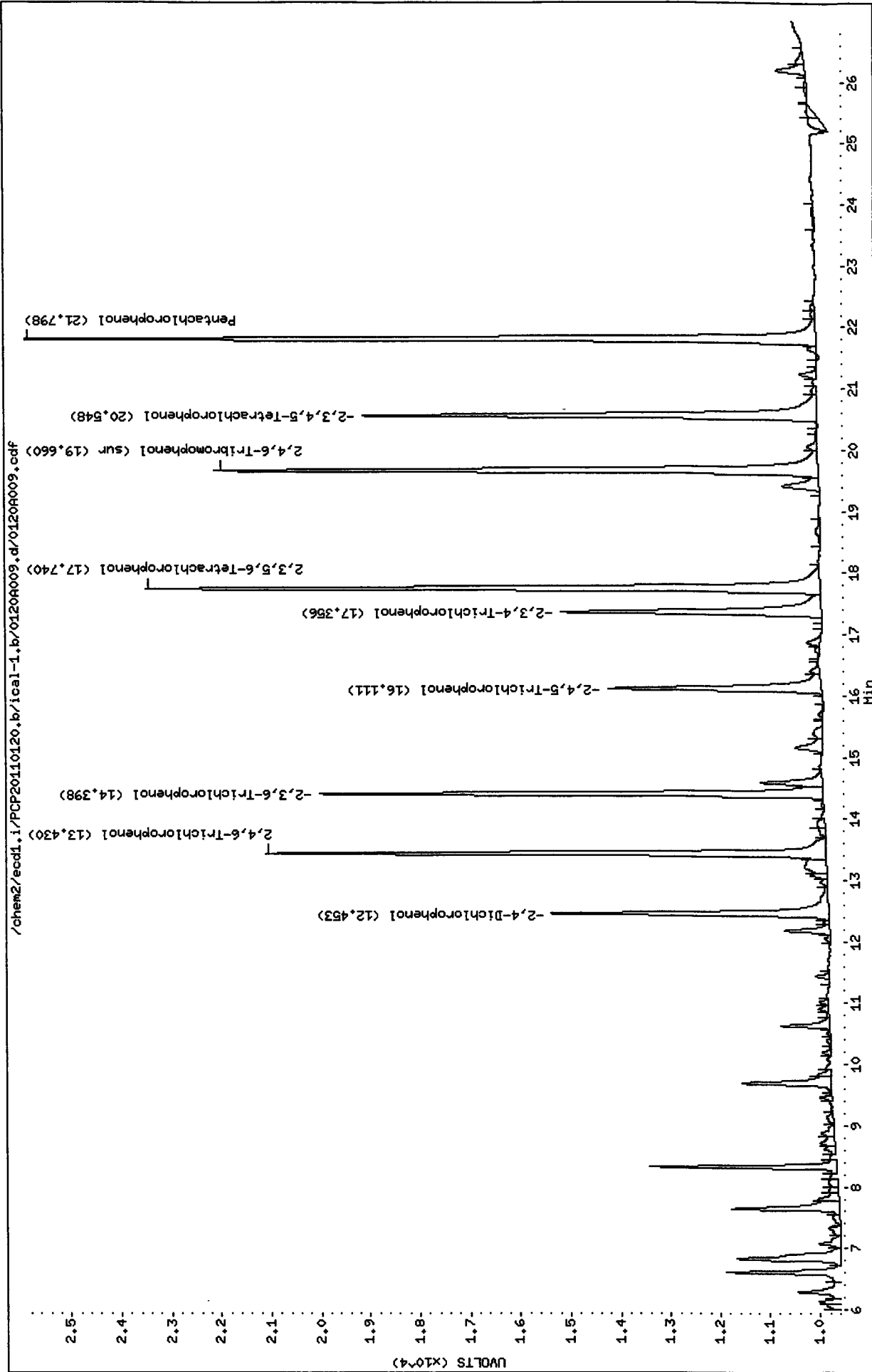
COMPOUND	Col1	Col2
2,4,6-TBP (surr)	96.5	99.6





Data File: /chem2/ecdl.i/PCP20110120.b/ical-1.b/0120R009.d
Date : 20-JAN-2011 20:55
Client ID:
Sample Info: PCPD
Purge Volume: 2.0
Column phase: ZB5

Instrument: ecd1.i
Operator: ar
Column diameter: 0.53

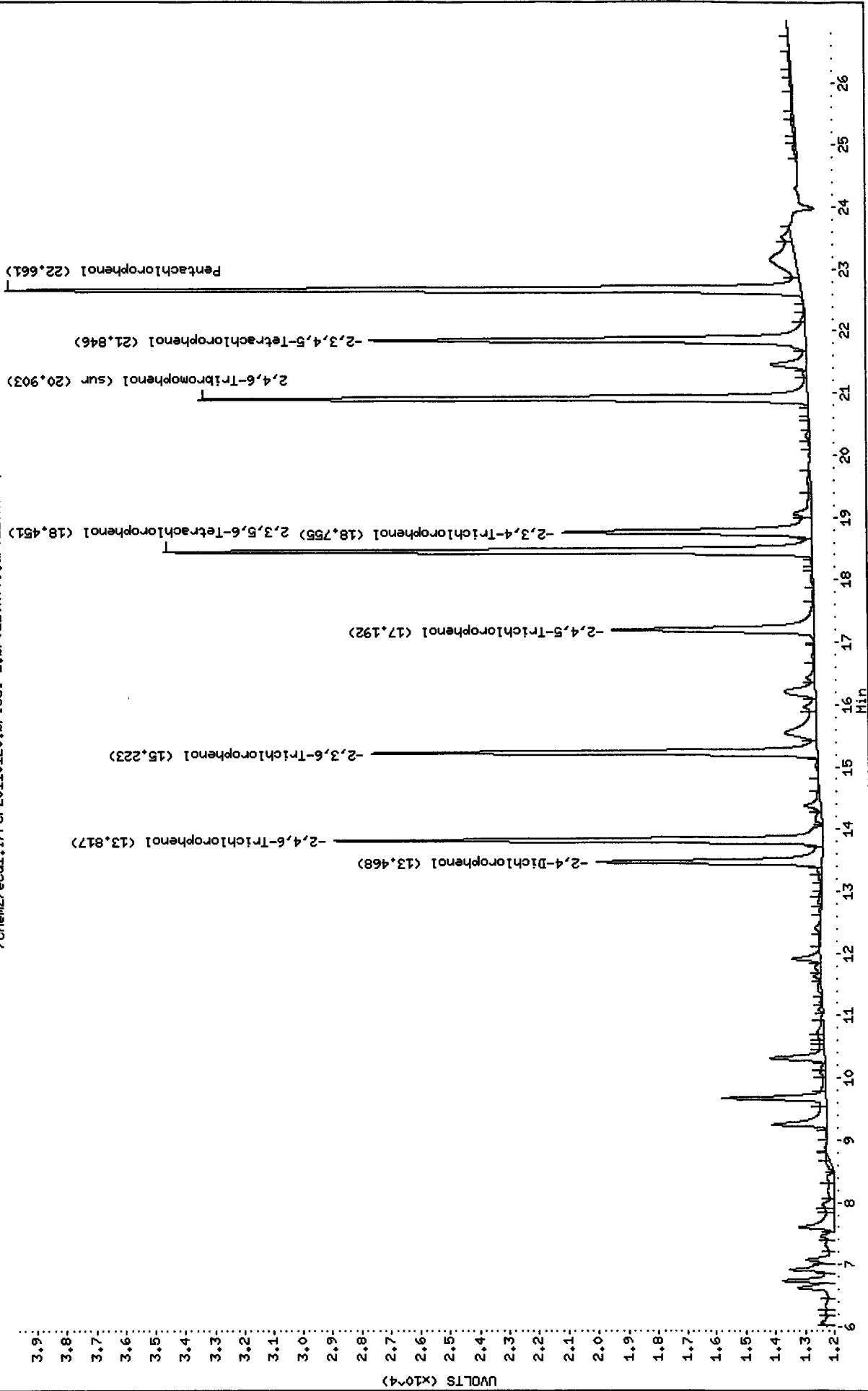


Data File: /chem2/ecdl1.i/PCP20110120.b/ical-2.b/0120R009.d
Date : 20-JAN-2011 20:55
Client ID:
Sample Info: PCPD
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecdl1.i

Operator: ar
Column diameter: 0.53

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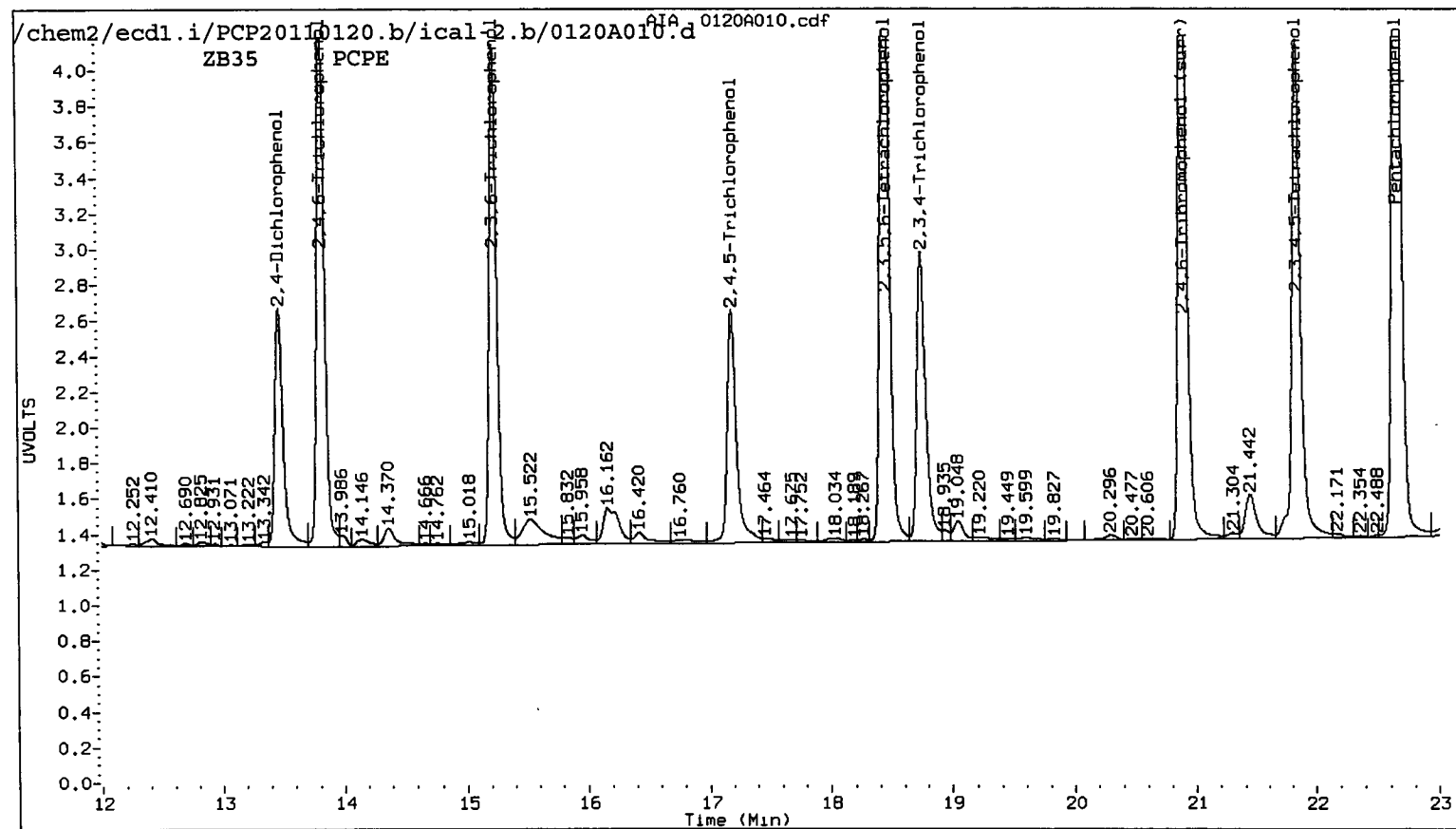
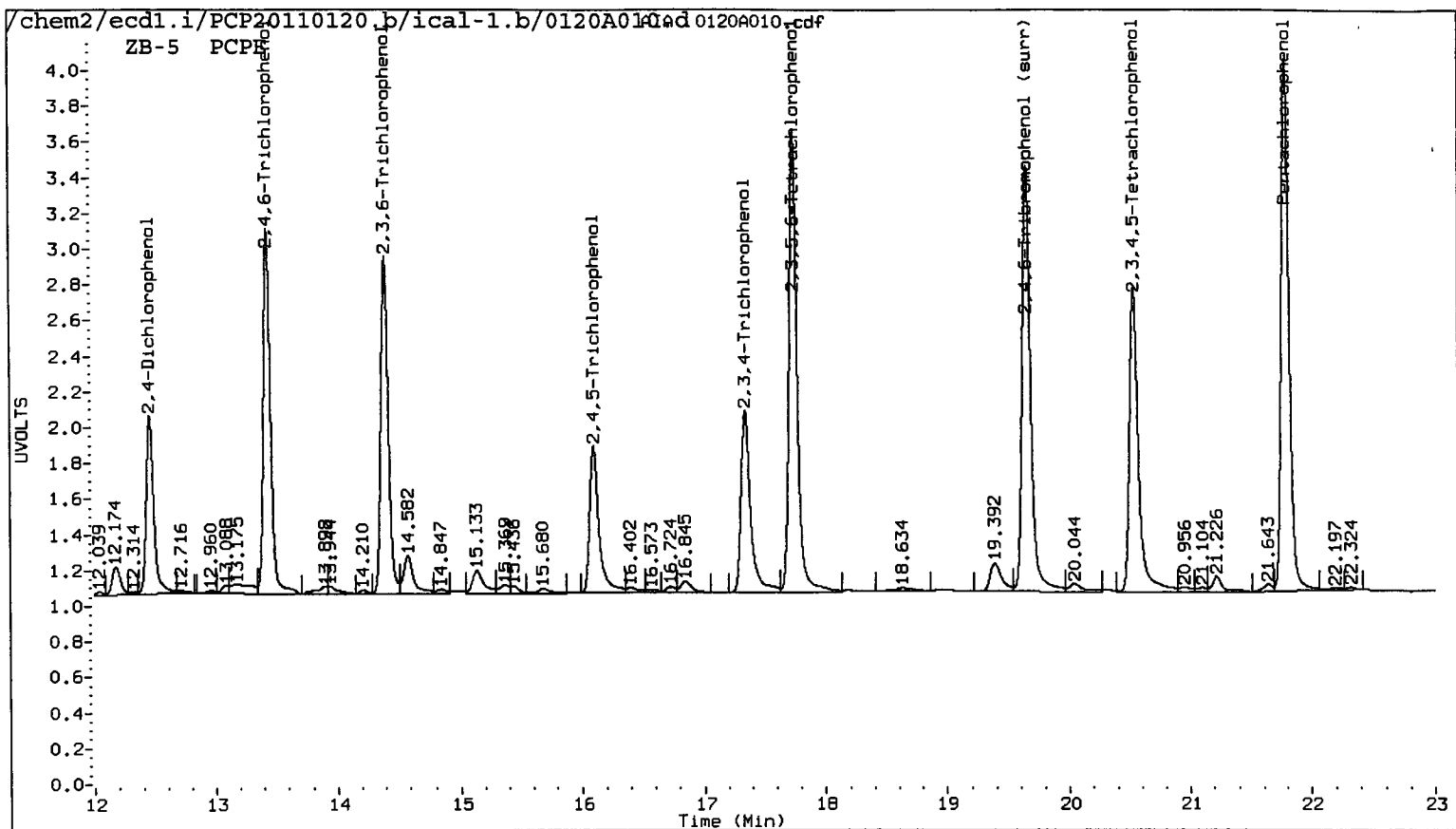
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

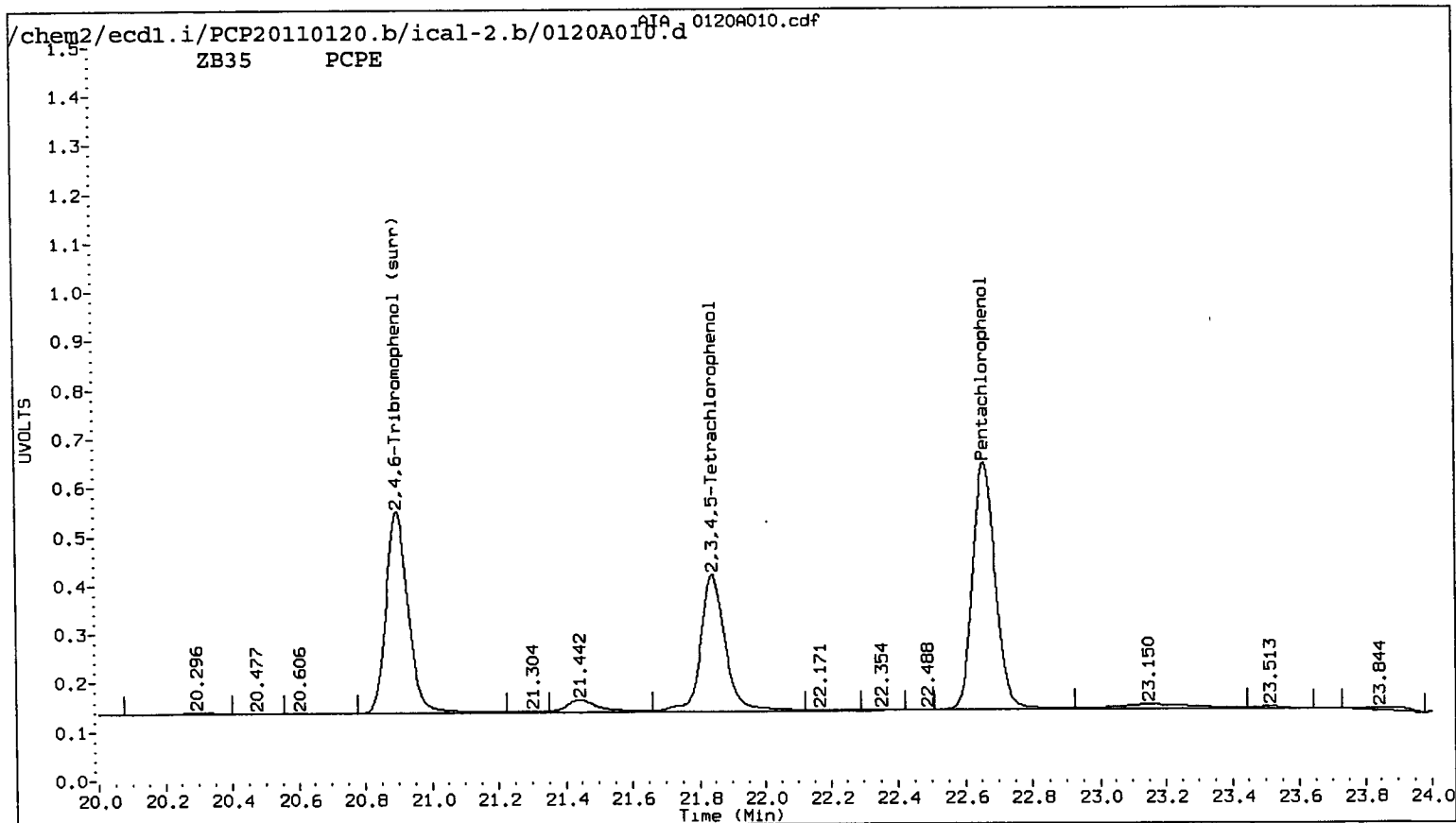
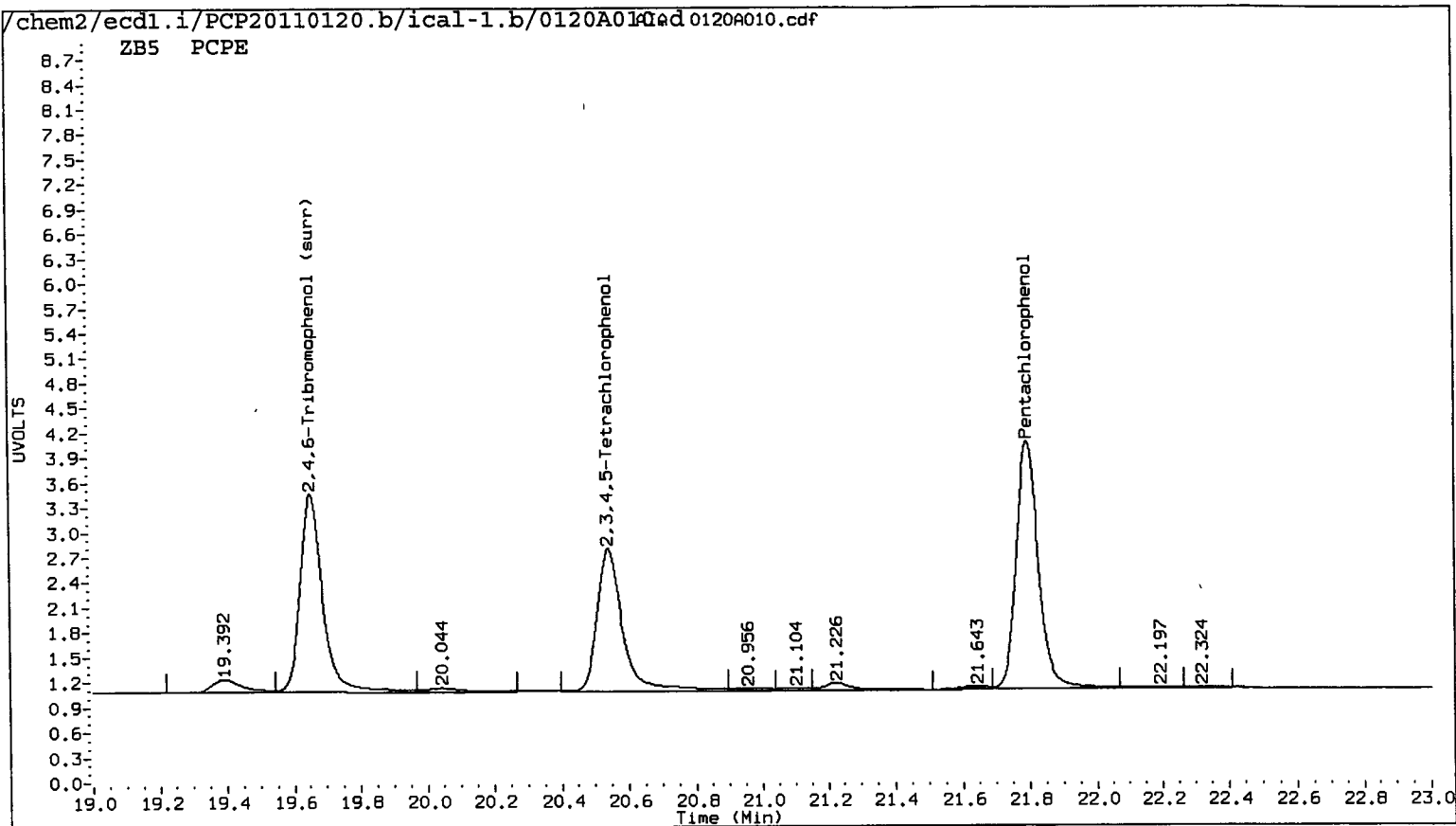
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 Data file 2: /chem2/ecdl.i/PCP20110120.b/ical-2.b/0120A010.d Client ID:
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 20-JAN-2011 21:31
 Compound Sublist: all Report Date: 01/21/2011 18:51
 Instrument: ecdl.i Matrix: WATER
 Operator: 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		
21.794	-0.004	694555	22.658	-0.003	1195119	42.8142	45.5794	6.3	Pentachlorophenol
13.429	-0.001	419125	13.815	-0.001	653416	48.5473	44.2371	9.3	2,4,6-Trichlorophenol
14.396	-0.002	393612	15.222	-0.001	624670	43.2407	45.5120	5.1	2,3,6-Trichlorophenol
16.099	-0.011	221196	17.184	-0.008	355375	46.7706	44.1204	5.8	2,4,5-Trichlorophenol
17.342	-0.014	282246	18.745	-0.010	421690	44.5201	45.7808	2.8	2,3,4-Trichlorophenol
17.735	-0.005	606887	18.446	-0.005	978200	43.5106	46.3700	6.4	2,3,5,6-Tetrachlorophenol
20.541	-0.008	450214	21.841	-0.005	719746	42.4716	44.8566	5.5	2,3,4,5-Tetrachlorophenol
12.451	-0.002	222950	13.465	-0.003	322304	472.7604	484.7600	2.5	2,4-Dichlorophenol
19.653	-0.007	574925	20.898	-0.005	957598	44.6	47.8	7.0	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

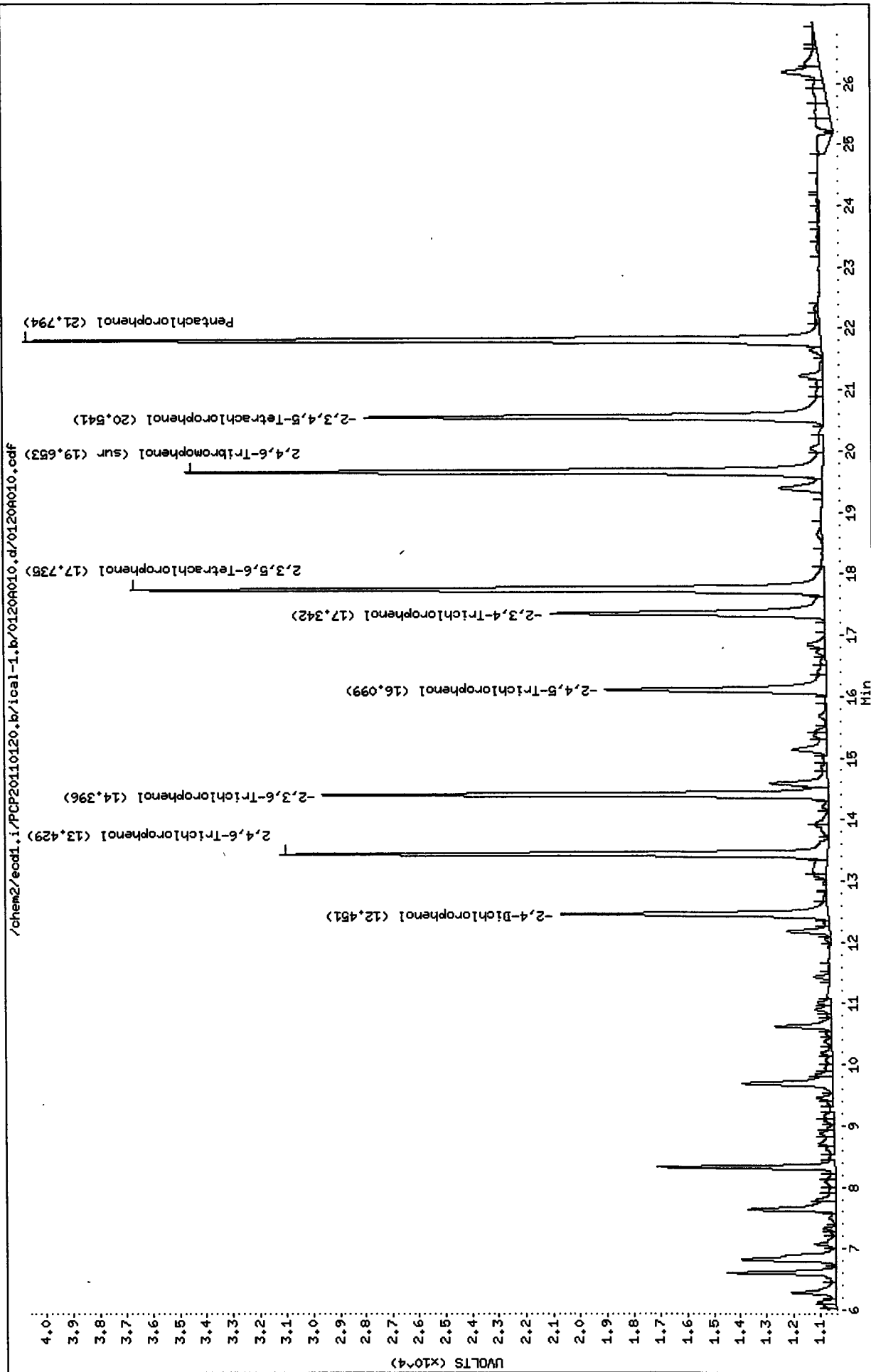
COMPOUND	Col1	Col2
2,4,6-TBP (surr)	178.4	191.4





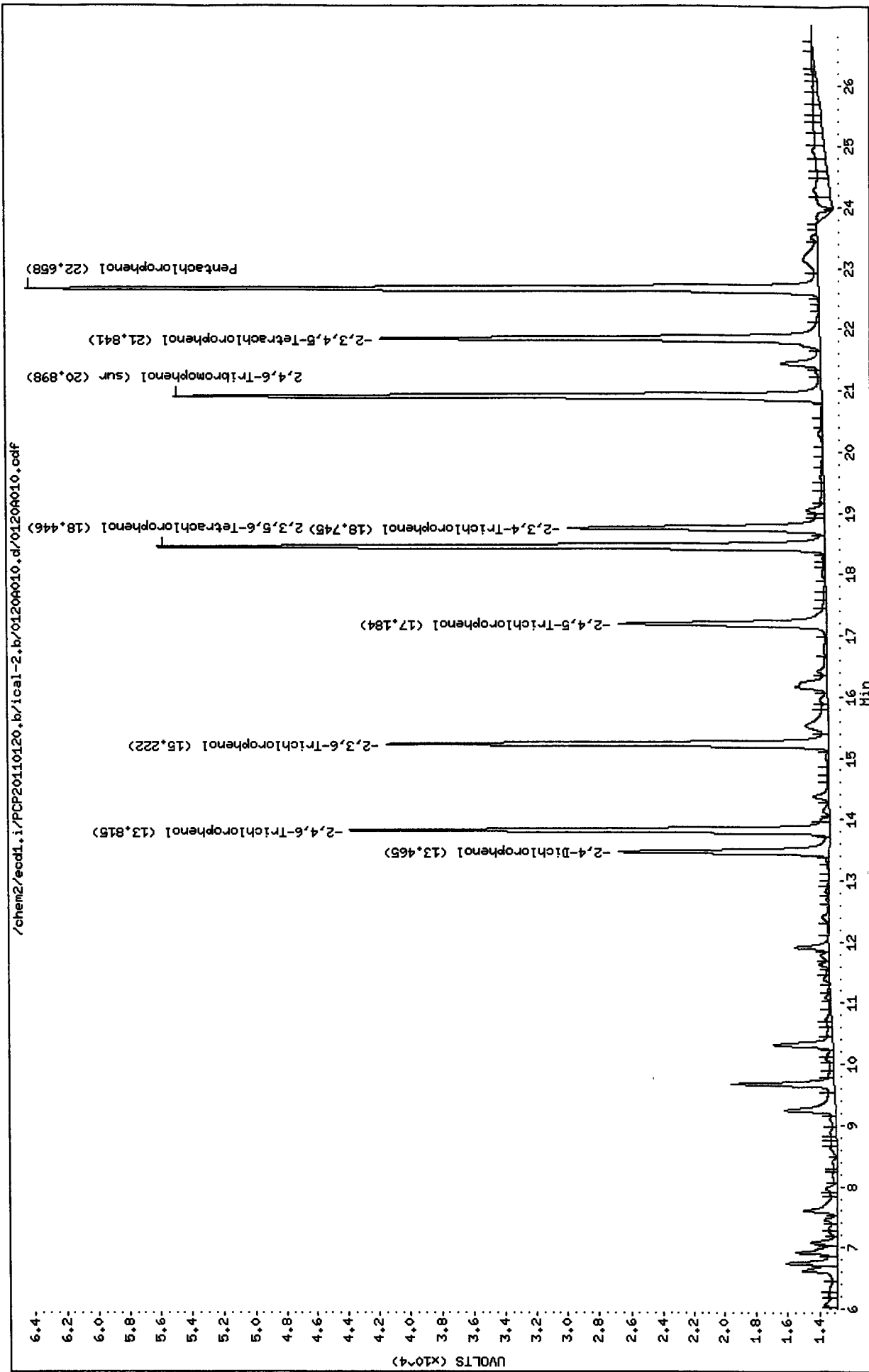
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Date : 20-JAN-2011 21:31
Client ID:
Sample Info: PCPE
Purge Volume: 2.0
Column phase: ZB5

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



Data File: /chem2/ecdl1.i/PCP20110120.b/ical-2.b/0120A010.d
Date : 20-JAN-2011 21:31
Client ID:
Sample Info: PCPE
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecdl1.i
Operator: ar
Column diameter: 0.53



10000 : 00001

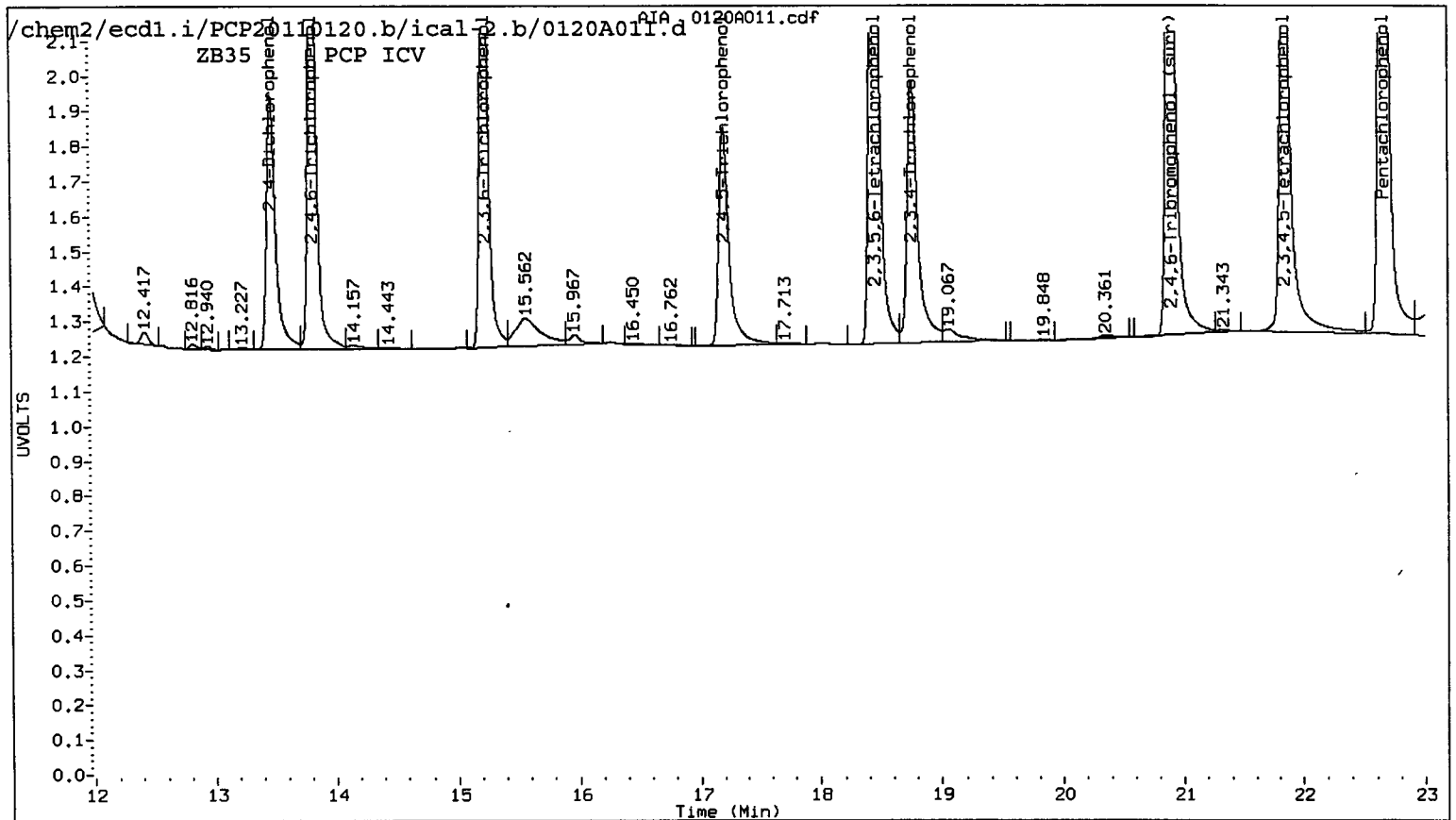
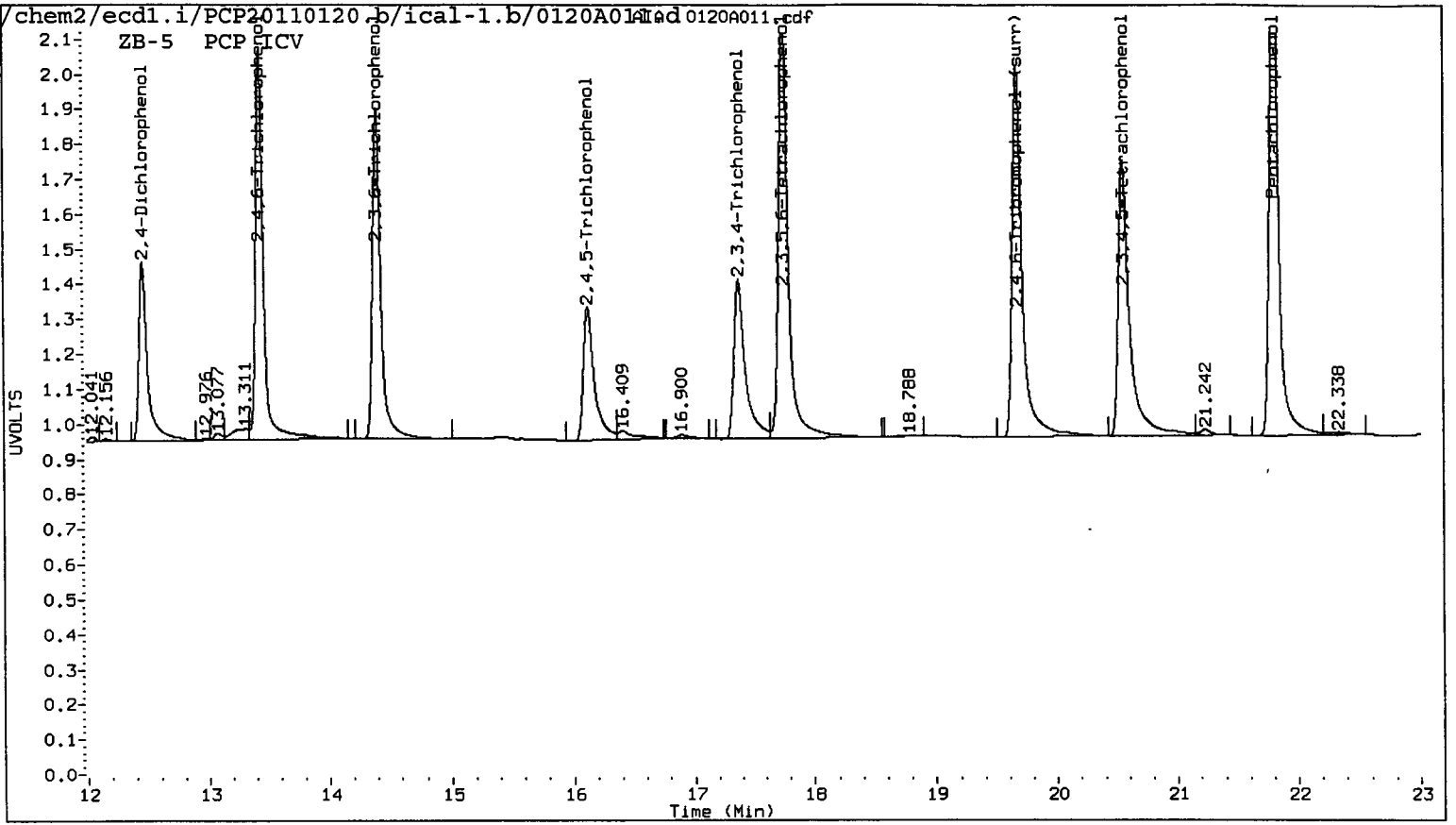
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

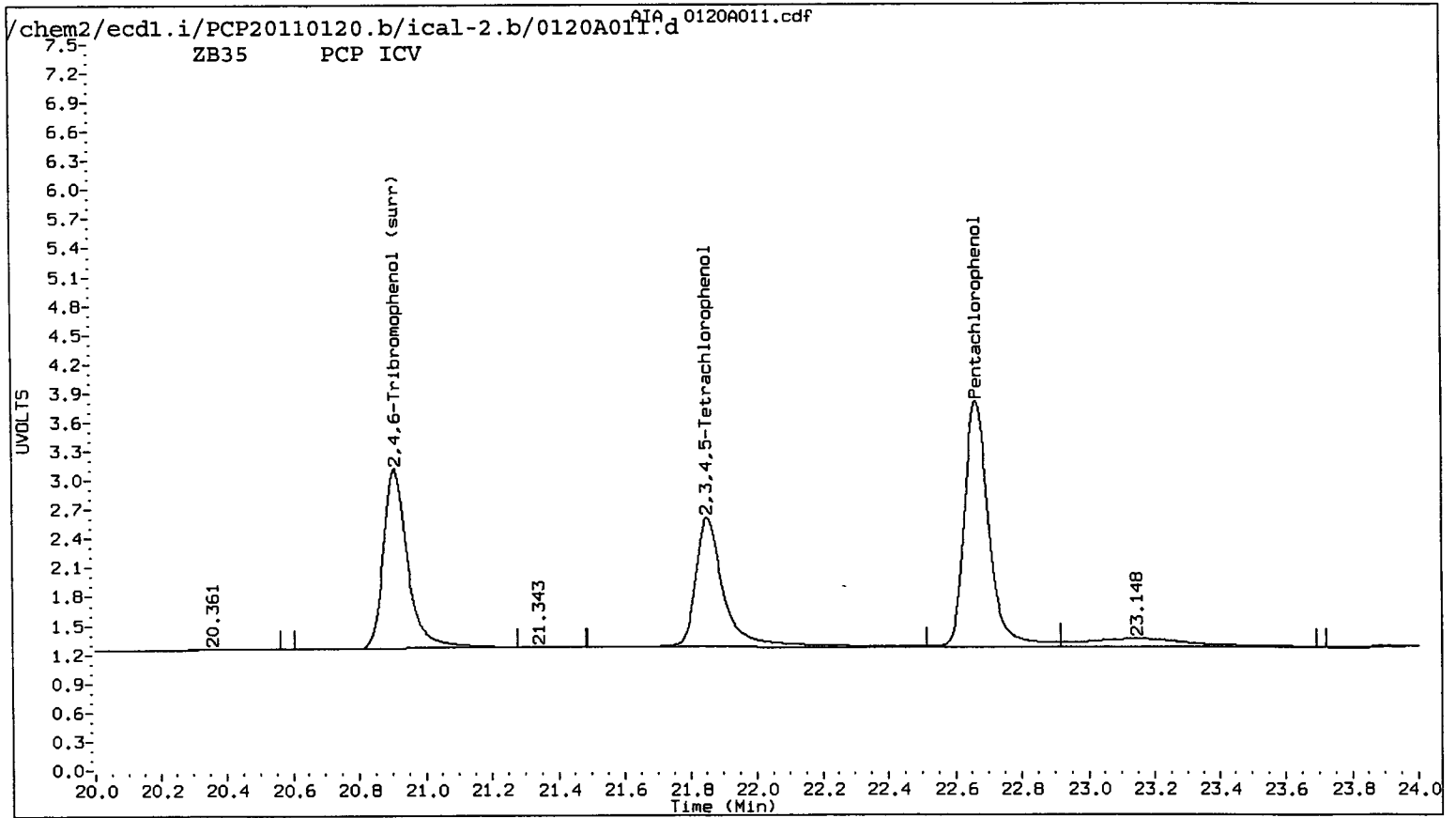
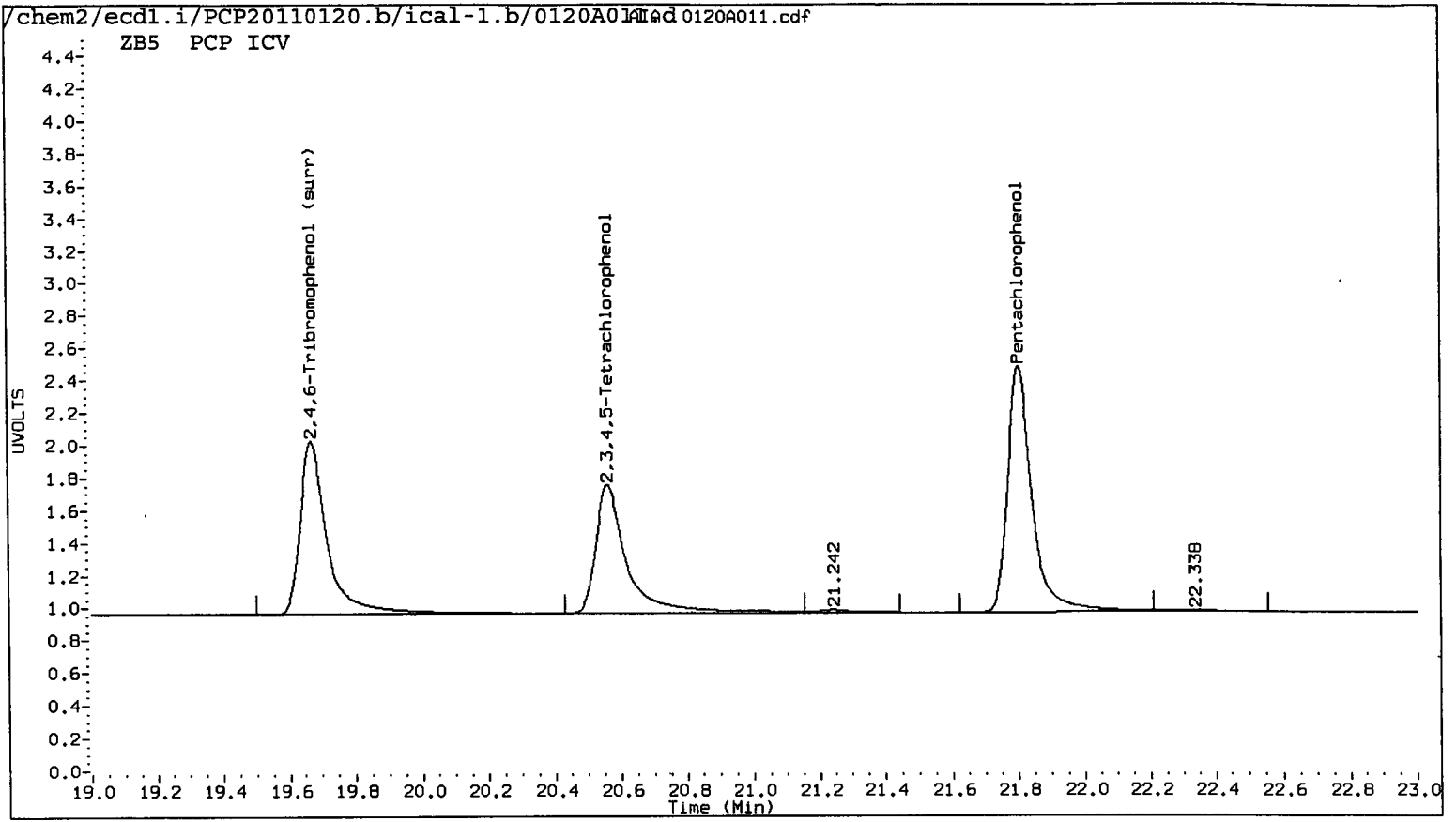
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 Data file 2: /chem2/ecdl.i/PCP20110120.b/ical-2.b/0120A011.d Client ID:
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 20-JAN-2011 22:07
 Compound Sublist: all Report Date: 01/21/2011 18:51
 Instrument: ecdl.i Matrix: WATER
 Operator: 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		
21.803	0.005	392837	22.665	0.004	654189	24.2155	24.9495	3.0	Pentachlorophenol
13.431	0.001	250353	13.817	0.000	359838	26.7397	24.3615	9.3	2,4,6-Trichlorophenol
14.400	0.002	222567	15.225	0.002	332479	24.4504	24.2237	0.9	2,3,6-Trichlorophenol
16.124	0.013	118619	17.201	0.009	188241	25.0813	23.3704	7.1	2,4,5-Trichlorophenol
17.369	0.013	154768	18.764	0.009	235489	24.4123	25.5659	4.6	2,3,4-Trichlorophenol
17.748	0.008	343725	18.455	0.004	514099	24.6433	24.3700	1.1	2,3,5,6-Tetrachlorophenol
20.560	0.011	256259	21.854	0.008	398035	24.1746	24.8067	2.6	2,3,4,5-Tetrachlorophenol
12.454	0.001	131009	13.469	0.001	186006	248.6262	240.1569	3.5	2,4-Dichlorophenol
19.669	0.009	310706	20.909	0.006	479199	24.1	23.9	0.7	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	96.9	99.8
2,4,6-Trichlorophenol	107.0	97.4
2,3,6-Trichlorophenol	97.8	96.9
2,4,5-Trichlorophenol	100.3	93.5
2,3,4-Trichlorophenol	97.6	102.3
2,3,5,6-Tetrachlorophenol	98.6	97.5
2,3,4,5-Tetrachlorophenol	96.7	99.2
2,4-Dichlorophenol	99.5	96.1
2,4,6-TBP (surr)	48.2 96.4	47.9 95.8

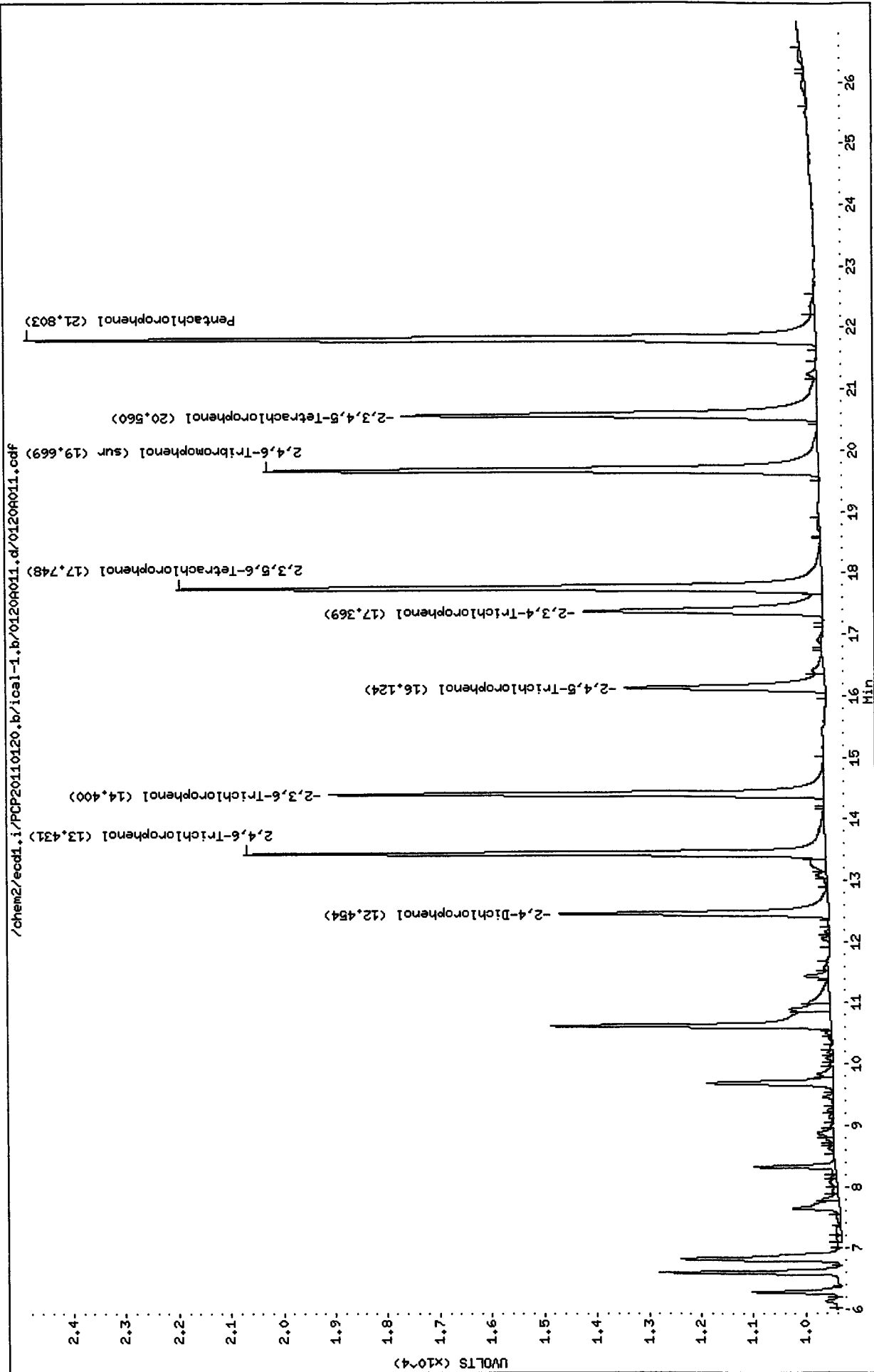




Data File: /chem2/ecd1.i/PCP20110120.b/ical-1.b/0120A011.d
Date : 20-JAN-2011 22:07
Client ID:
Sample Info: PCP ICV
Purge Volume: 2.0
Column phase: ZB5

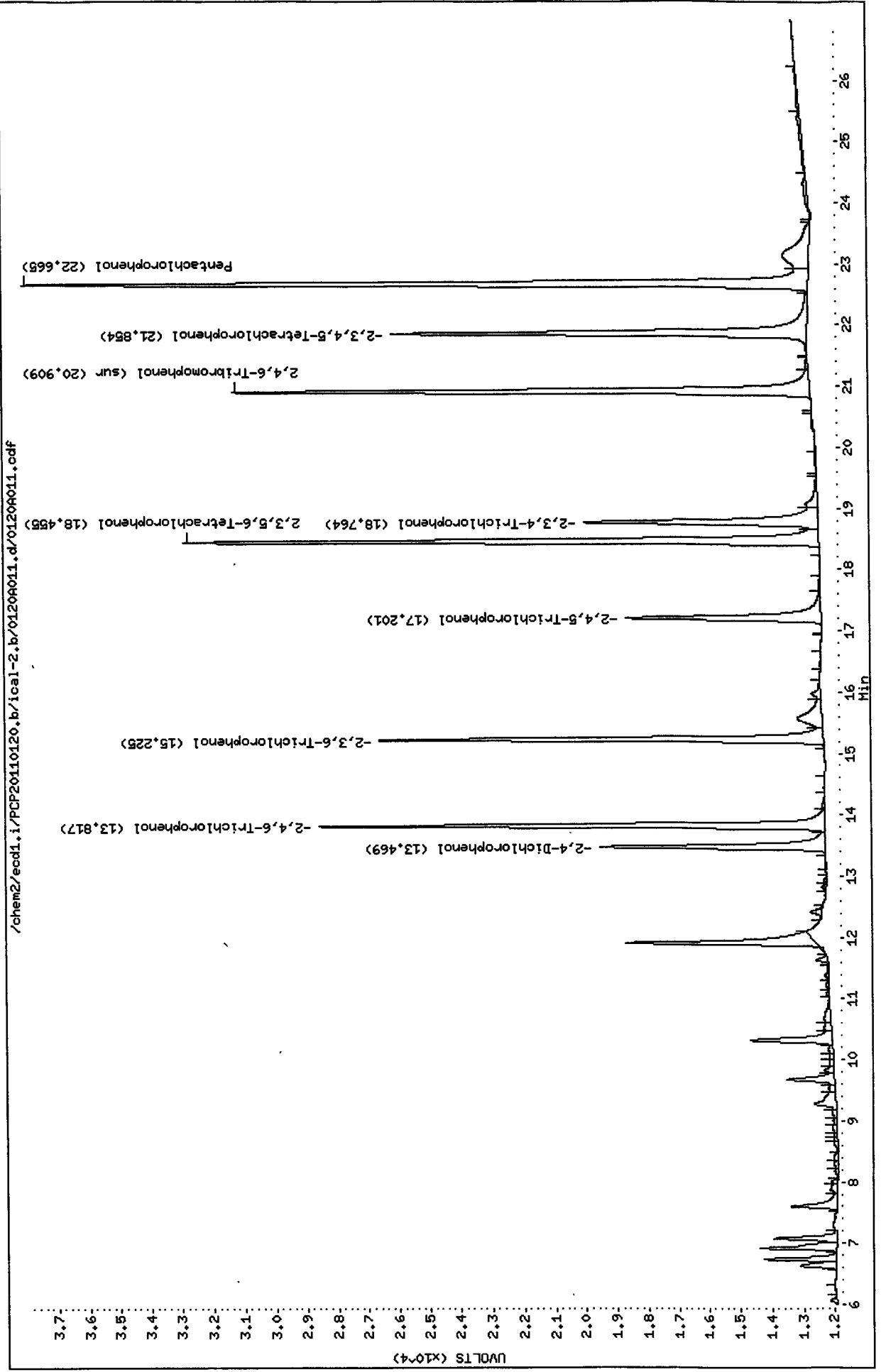
Instrument: ecd1.i

Operator: ar
Column diameter: 0.53



Data File: /chem2/ecd1.i/PCP20110120.b/ical-2.b/0120A011.d
Date : 20-JAN-2011 22:07
Client ID:
Sample Info: PCP ICV
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecd1.i
Operator: ar
Column diameter: 0.53



**PCP/Chlorophenols Raw Data
Run Logs, Continuing Calibrations, and Raw Data**

ARI Job ID: SF26, SF50, SF76

GC Analyst Notes / Corrective Action Log

ARI Project ID: SF 26 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): NA 500ml / 50ml FV

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: 1/20/2011 Analysis Start: 1/20/2011

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

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

Additional Details on Reverse: Yes / No NA

Analyst: [Signature] Date: 1/27/2011

Reviewer: AB Date: 1/28/10

GC Analyst Notes / Corrective Action Log

ARI Project ID: SF50 Client ID: Floyd-Snyder

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): 500mL / 50mL FV

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: 1/20/2011 Analysis Start: 1/26/2011

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

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

Additional Details on Reverse: Yes / No

Analyst: [Signature] Date: 1/27/2011

Reviewer: [Signature] Date: 1/28/11

GC Analyst Notes / Corrective Action Log

ARI Project ID: SF76 Client ID: Floyd-Snyder

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): 500mL / 50mL FV

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: 1/20/2011 Analysis Start: 1/26/2011

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

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

Additional Details on Reverse: **Yes / No**

Analyst: [Signature] Date: 1/27/2011

Reviewer: [Signature] Date: 1/28/11

Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

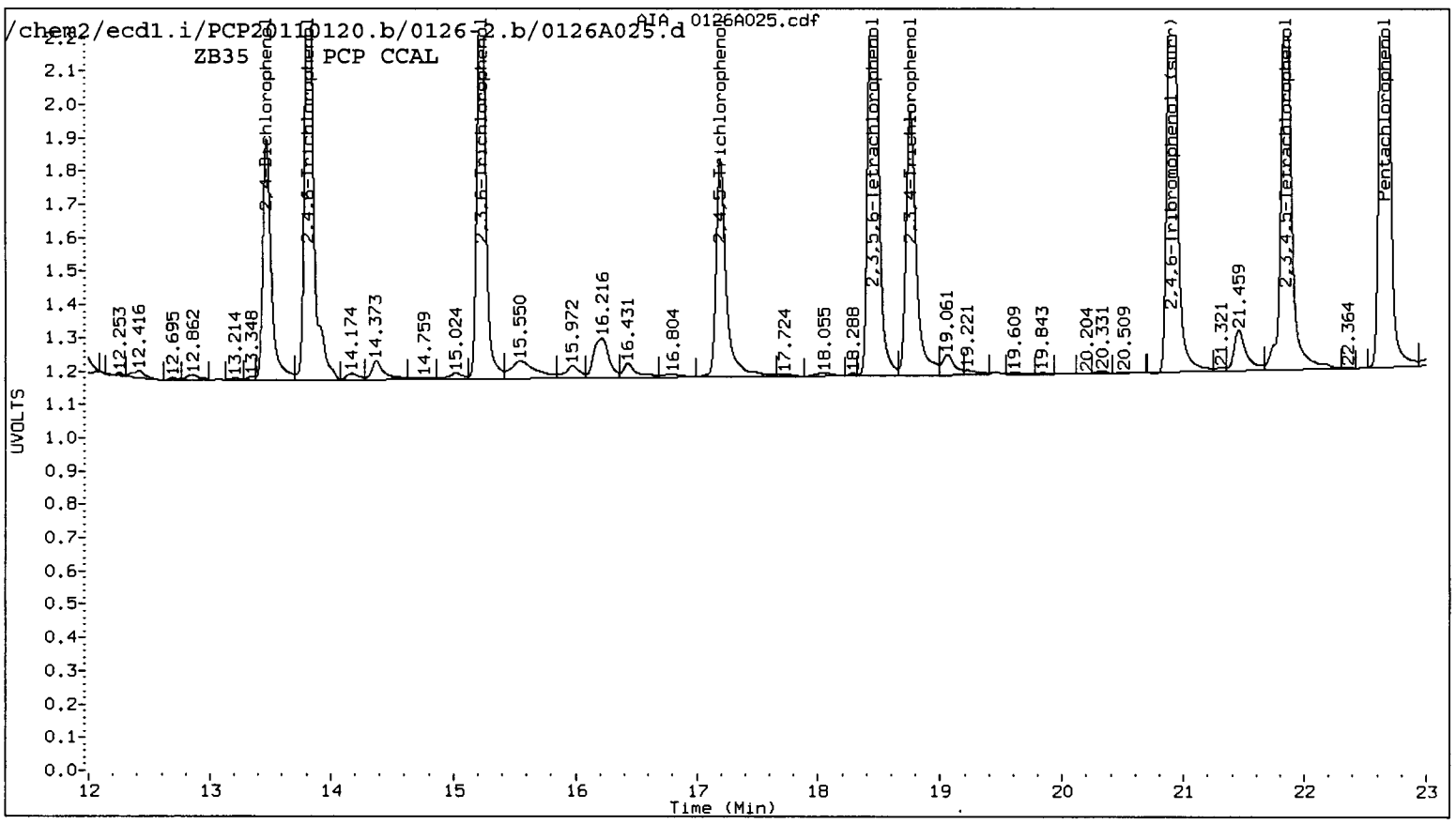
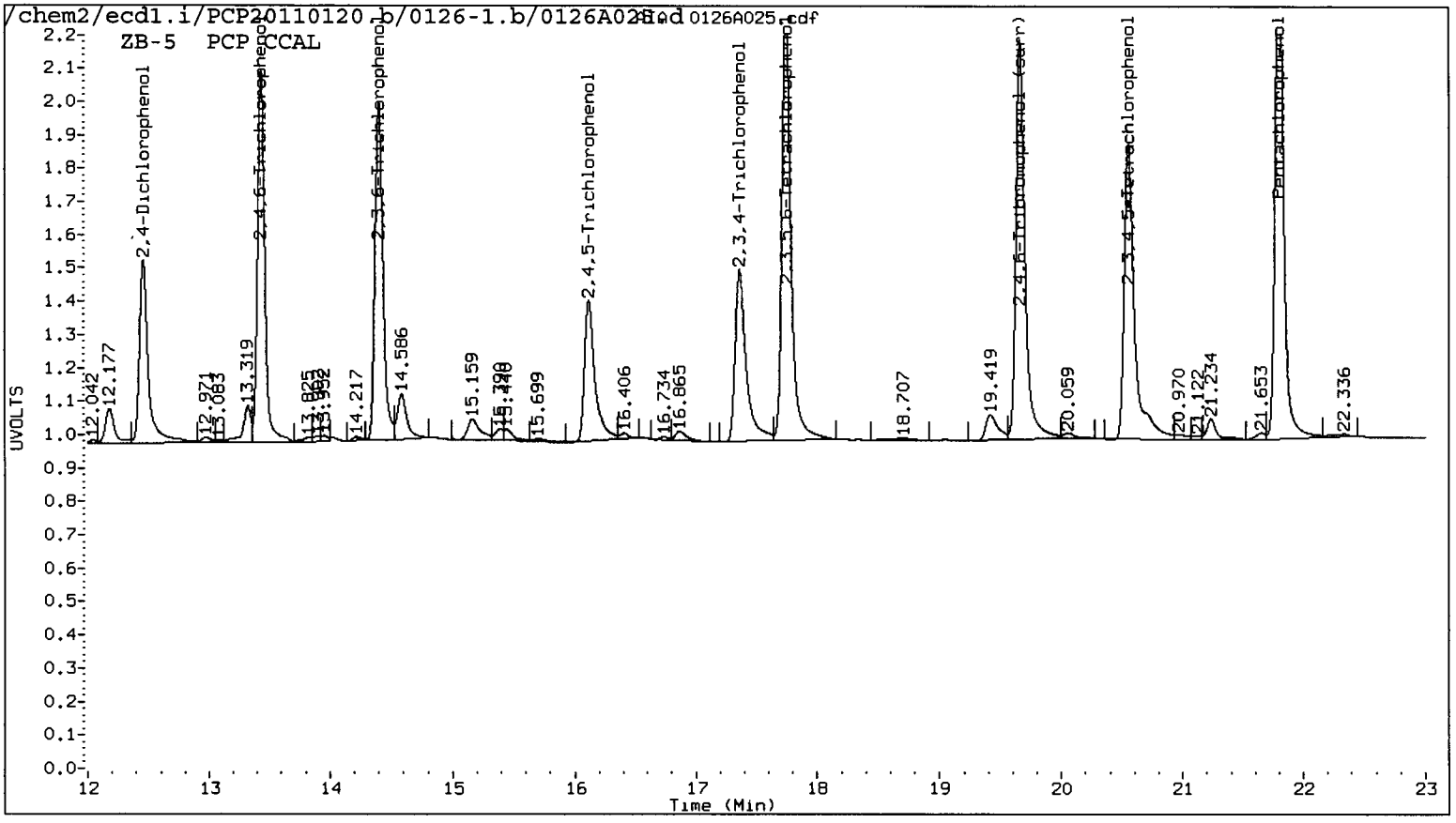
AR 1/27/2011

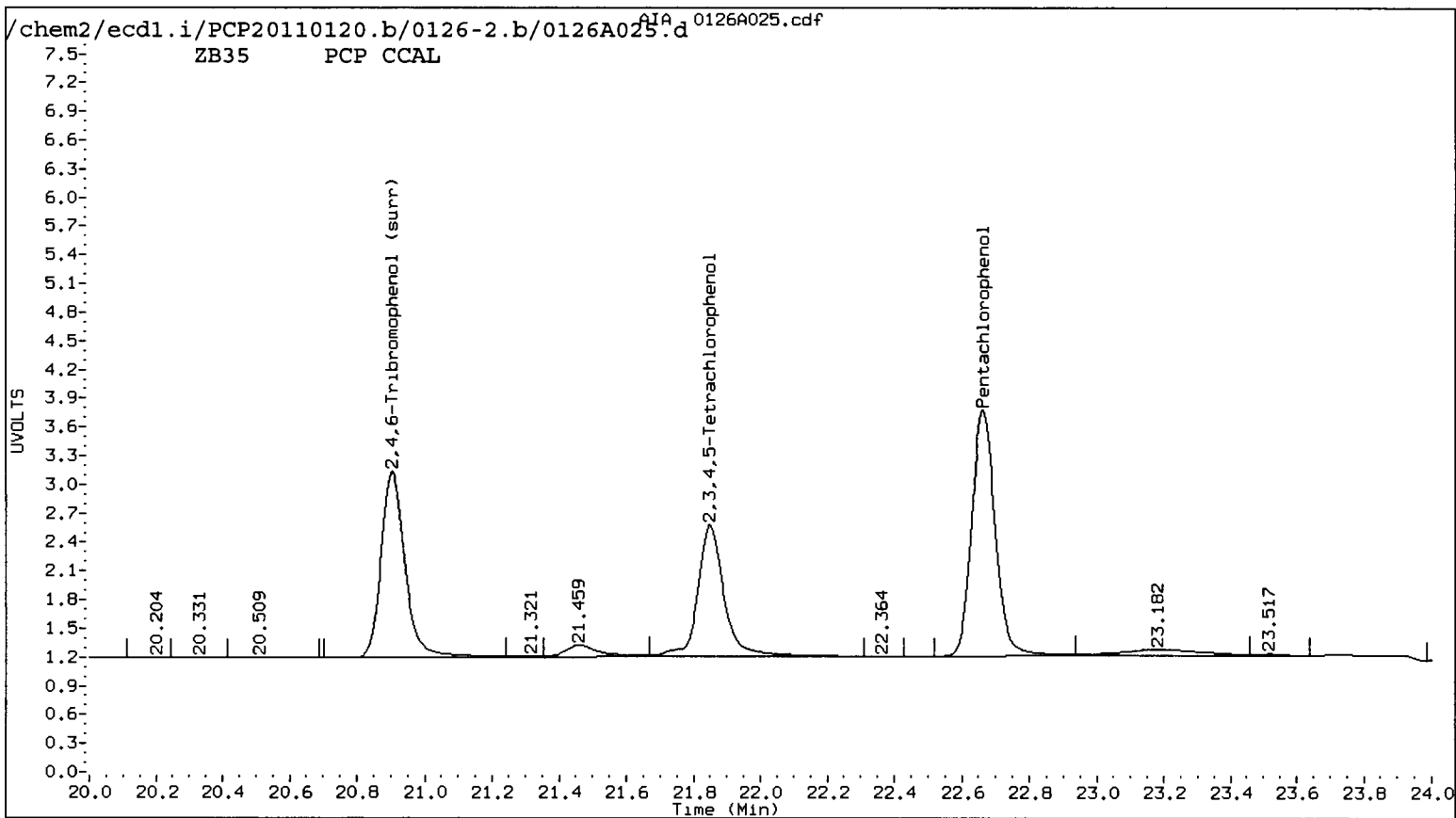
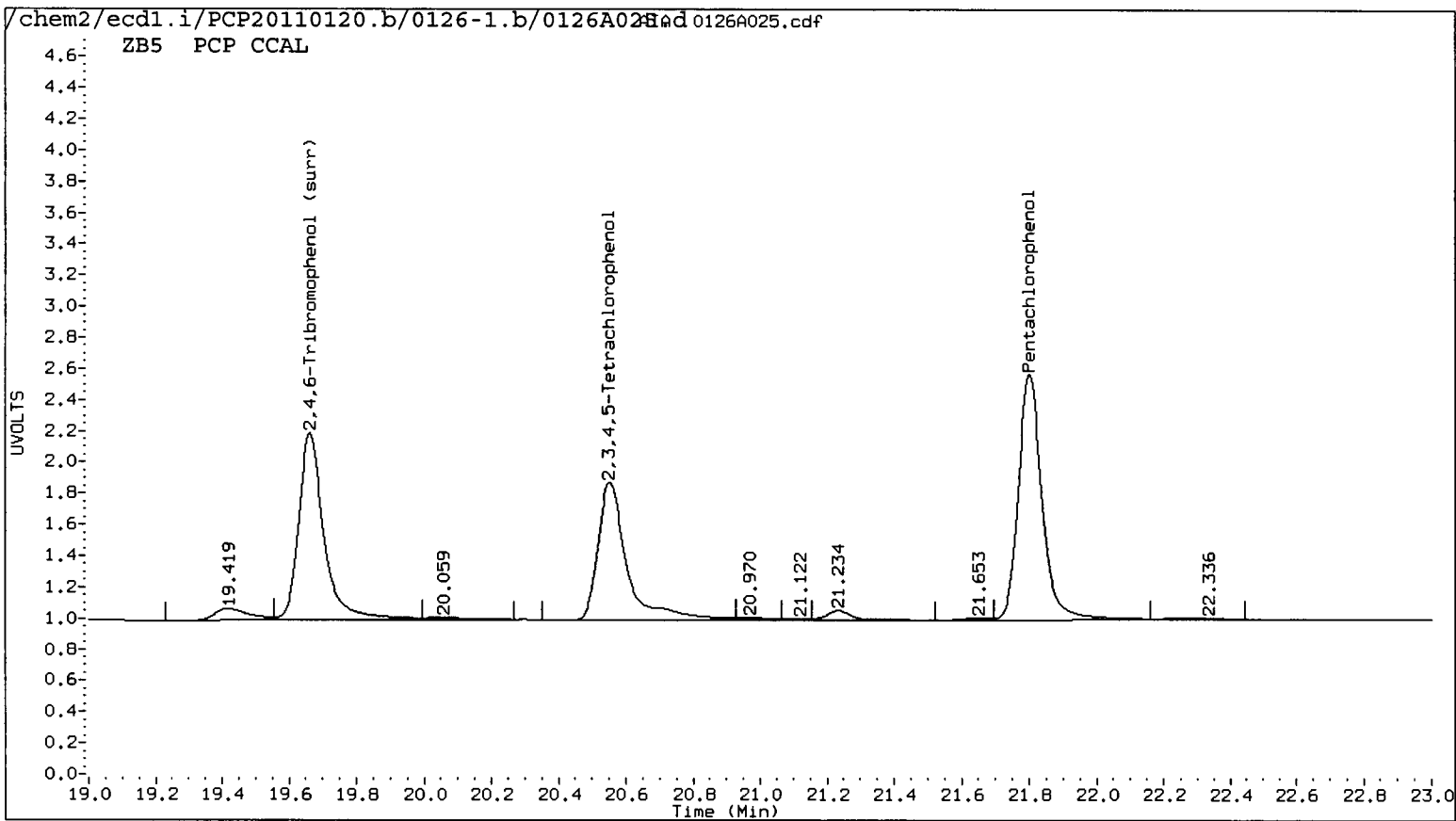
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 Data file 2: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A025.d Client ID:
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 26-JAN-2011 21:40
 Compound Sublist: all Report Date: 01/27/2011 12:43
 Instrument: ecdl.i Matrix: WATER
 Operator: 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		
21.801	0.002	388759	22.662	0.001	620881	23.9642	23.6792	1.2	Pentachlorophenol
13.432	0.002	232931	13.818	0.002	365809	24.6620	24.7658	0.4	2,4,6-Trichlorophenol
14.400	0.002	220608	15.225	0.002	325403	24.2353	23.7081	2.2	2,3,6-Trichlorophenol
16.114	0.003	124964	17.195	0.003	190994	26.4231	23.7122	10.8	2,4,5-Trichlorophenol
17.358	0.002	161242	18.758	0.003	229235	25.4336	24.8870	2.2	2,3,4-Trichlorophenol
17.743	0.003	336313	18.453	0.002	498852	24.1118	23.6473	1.9	2,3,5,6-Tetrachlorophenol
20.552	0.003	261255	21.850	0.004	384490	24.6459	23.9626	2.8	2,3,4,5-Tetrachlorophenol
12.455	0.002	141420	13.470	0.002	182264	271.9515	234.2612	14.9	2,4-Dichlorophenol
19.662	0.002	313599	20.904	0.002	472380	24.3	23.6	3.1	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

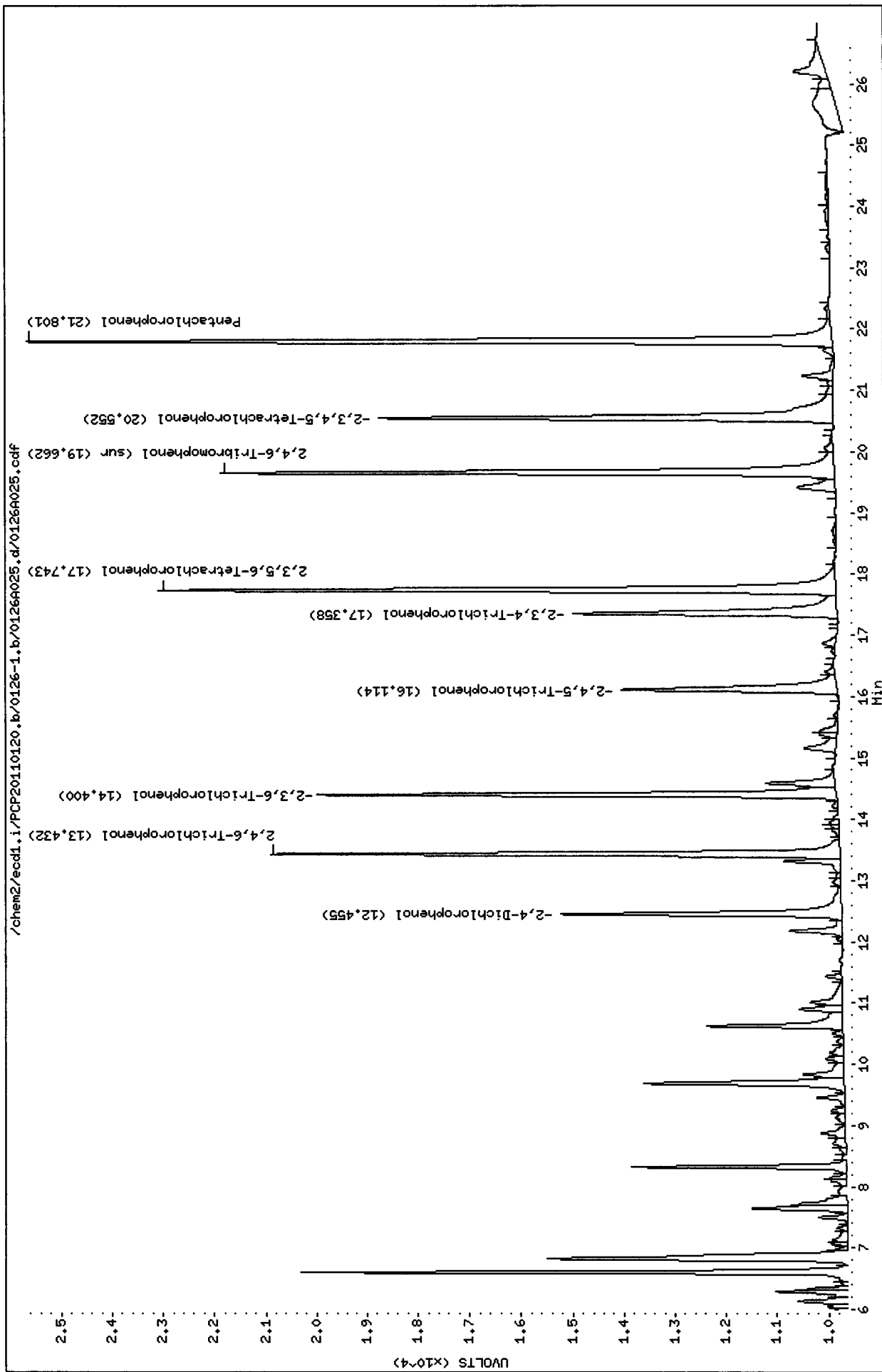
COMPOUND	Col1	Col2
Pentachlorophenol	95.9	94.7
2,4,6-Trichlorophenol	98.6	99.1
2,3,6-Trichlorophenol	96.9	94.8
2,4,5-Trichlorophenol	105.7	94.8
2,3,4-Trichlorophenol	101.7	99.5
2,3,5,6-Tetrachlorophenol	96.4	94.6
2,3,4,5-Tetrachlorophenol	98.6	95.9
2,4-Dichlorophenol	108.8	93.7
2,4,6-TBP (surr)	97.3	94.4



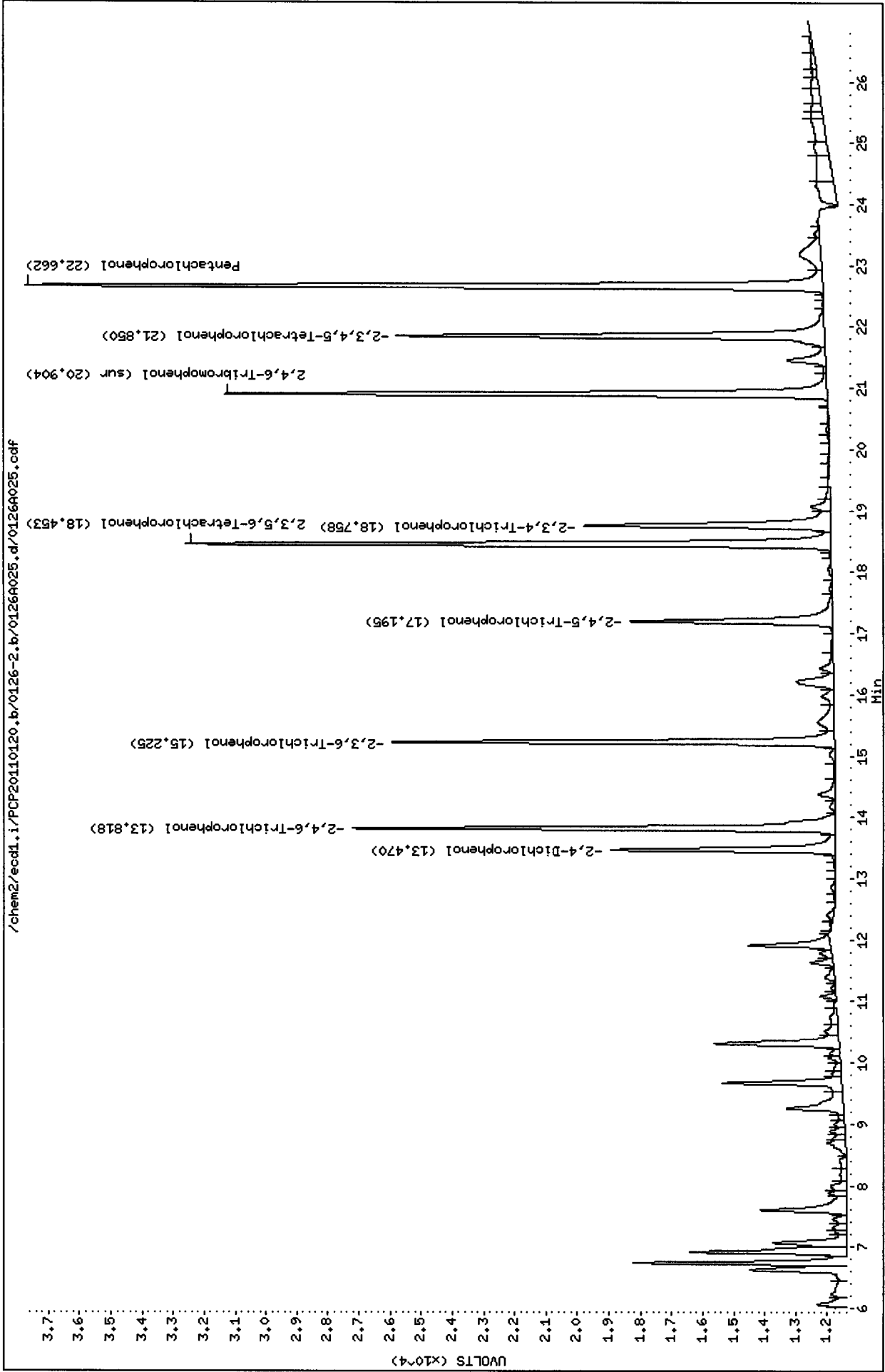


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Date : 26-JAN-2011 21:40
Client ID:
Sample Info: PCP CCRAL
Purge Volume: 2.0
Column phase: ZB5

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



Data File: /chem2/ecdl1.i/PCP20110120.b/0126-2.b/0126A025.d
Date : 26-JAN-2011 21:40
Client ID:
Sample Info: PCP CCAL
Purge Volume: 2.0
Column phase: ZB35
Instrument: ecdl1.i
Operator: ar
Column diameter: 0.53



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

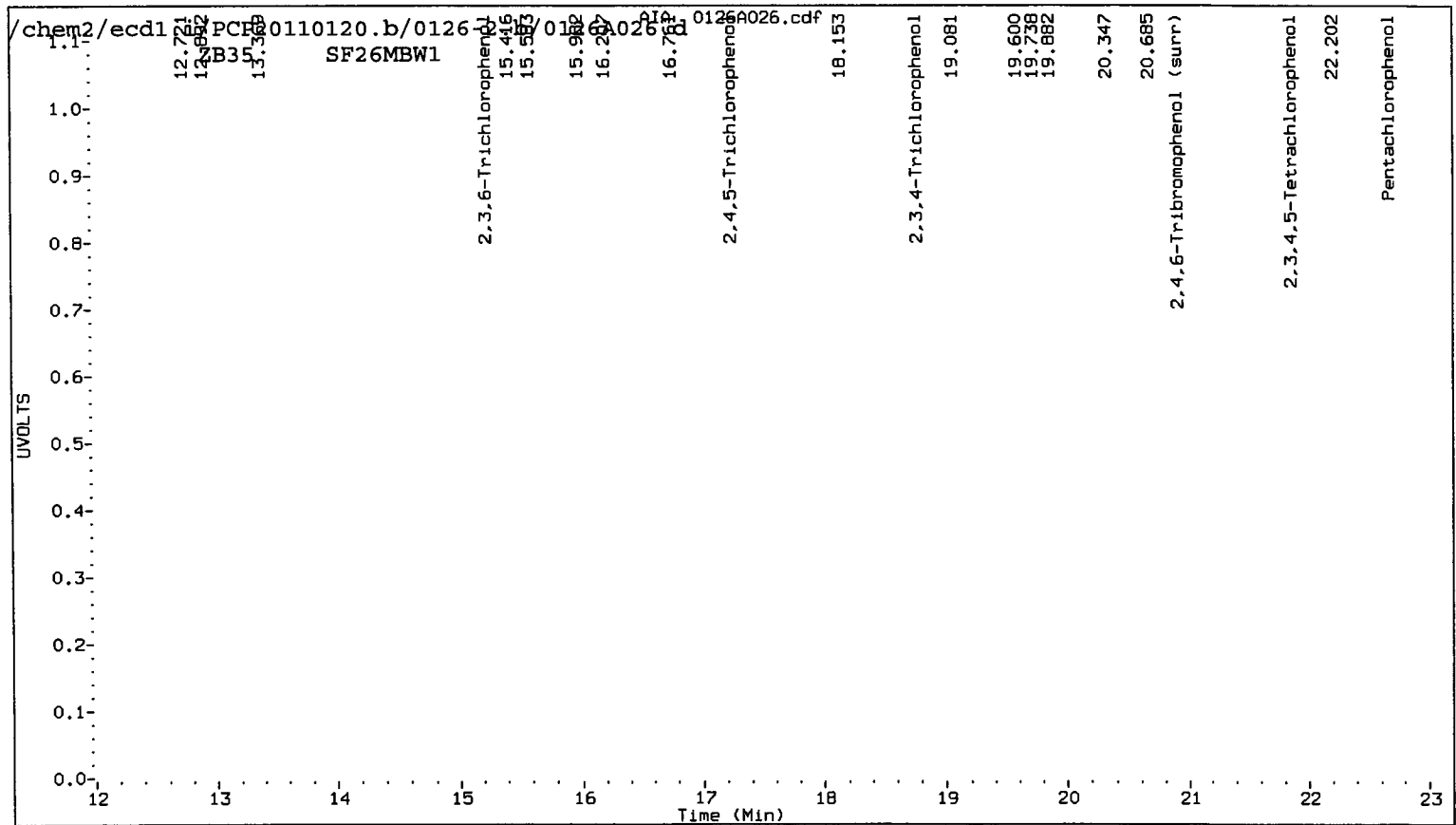
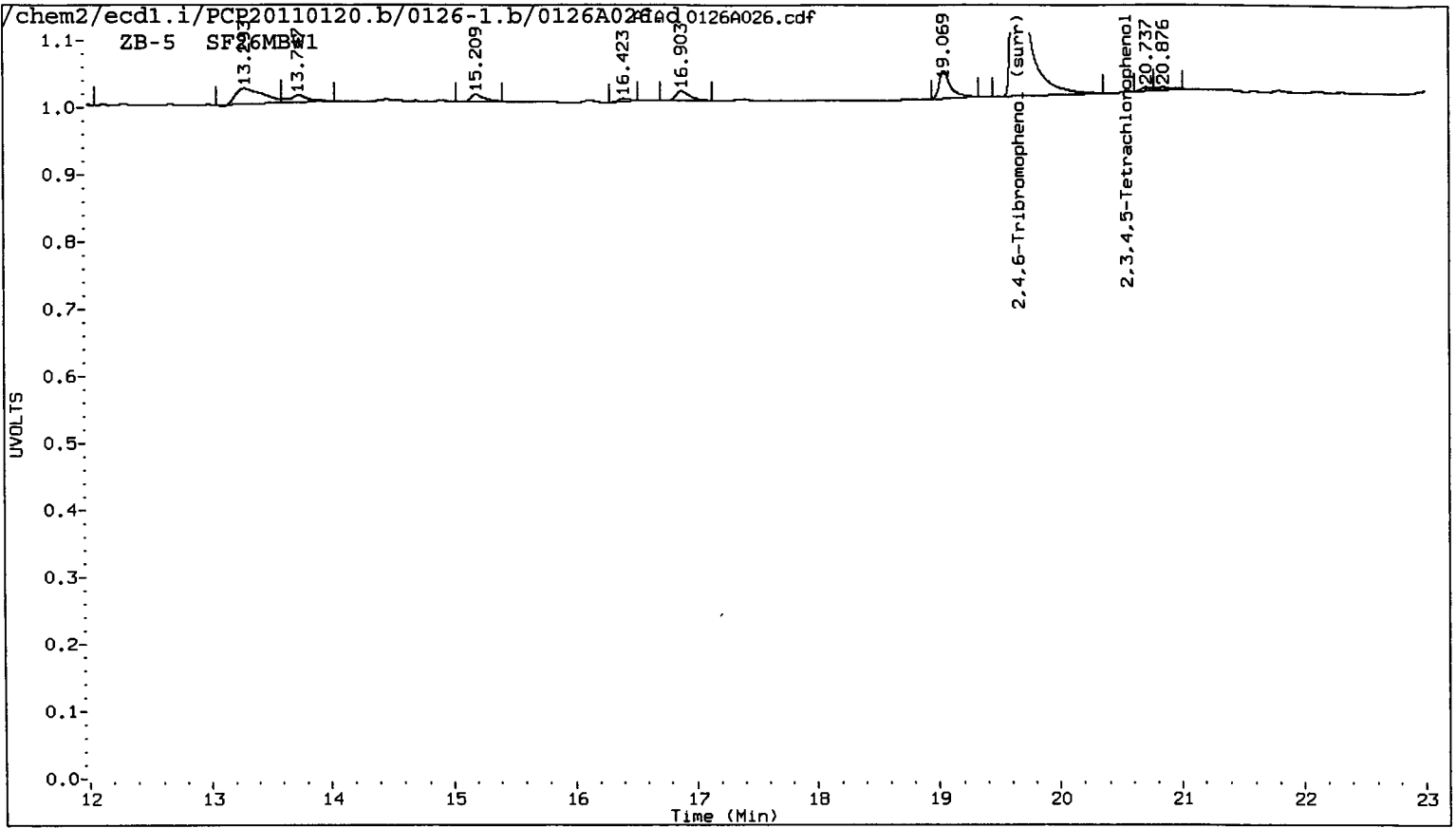
AR 1/27/2011

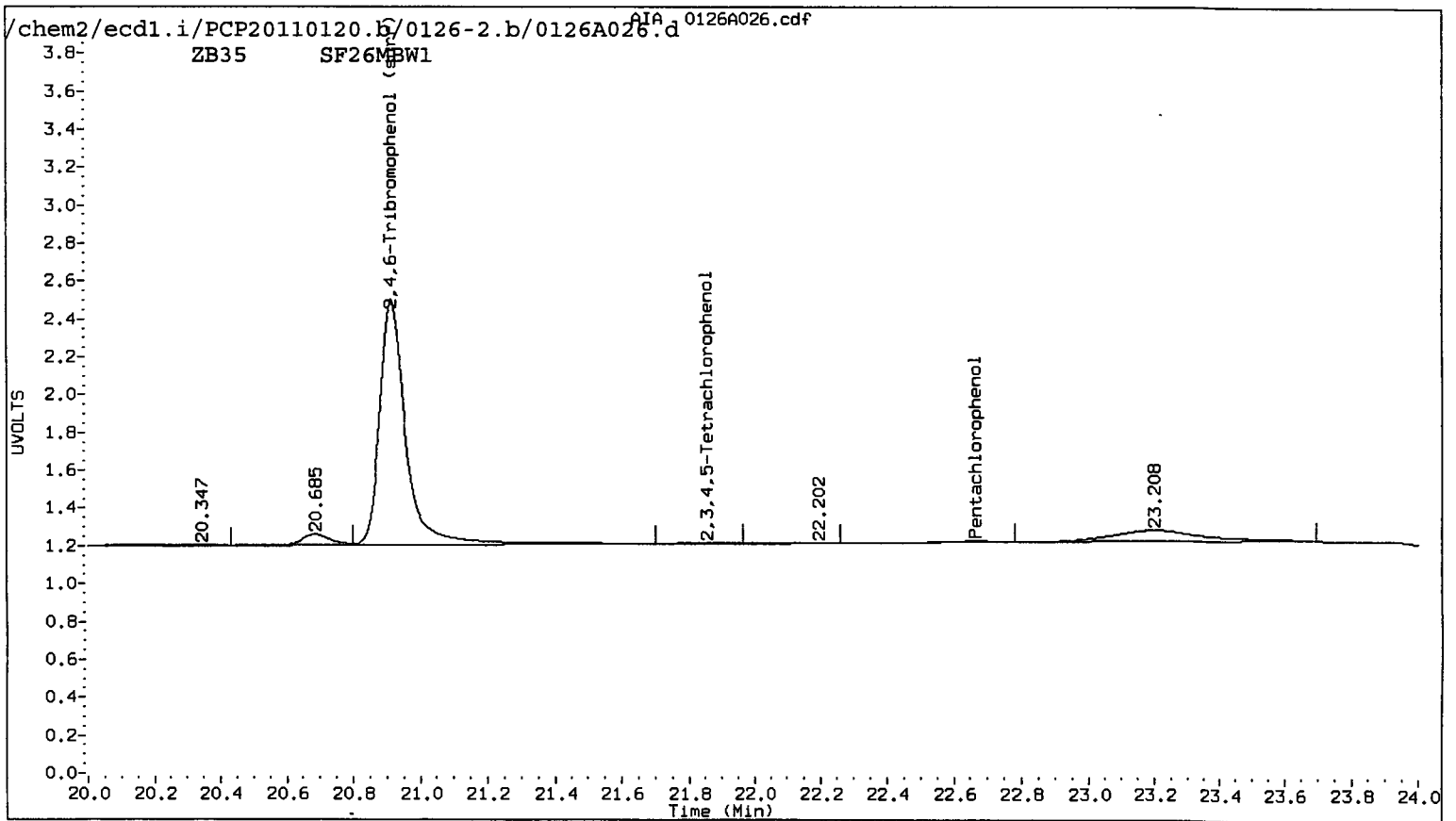
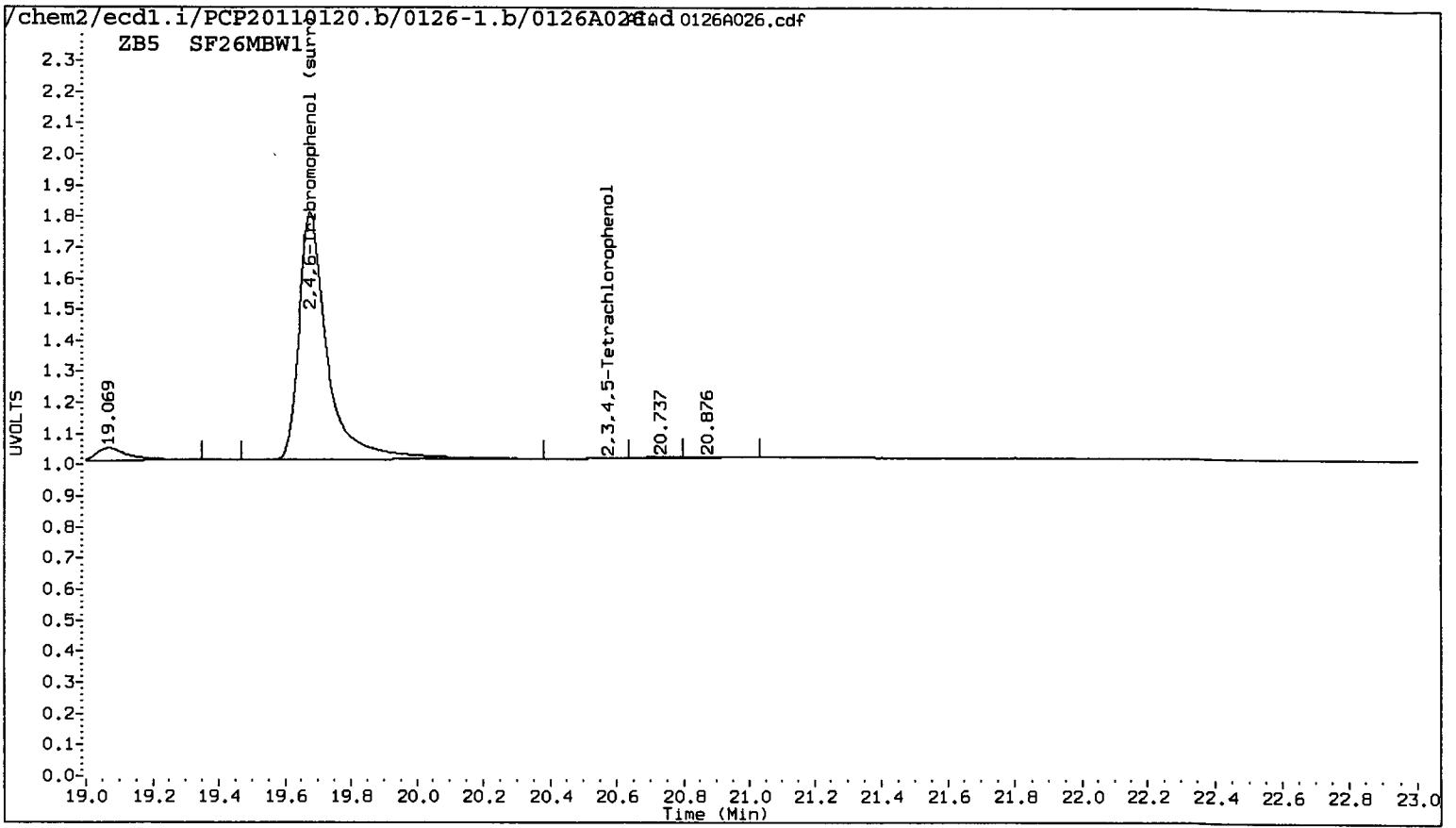
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 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 26-JAN-2011 22:16
 Compound Sublist: all Report Date: 01/27/2011 12:43
 Instrument: ecd1.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

RT	ZB-5 Col Shift Response	RT	ZB35 Col Shift Response	ZB-5 on col	ZB35 on col	RPD	Compound
----		22.670	0.008 3924	0.0000	0.1497 ^R	---	Pentachlorophenol
----		----		0.0000	0.0000	---	2,4,6-Trichlorophenol
----		15.230	0.007 516	0.0000	0.0377	---	2,3,6-Trichlorophenol
----		17.244	0.052 1507	0.0000	0.1871	---	2,4,5-Trichlorophenol
----		18.777	0.022 1385	0.0000	0.1504	---	2,3,4-Trichlorophenol
----		----		0.0000	0.0000	---	2,3,5,6-Tetrachlorophenol
20.577	0.029 / 252	21.861	0.015 / 2403	0.0239	0.1498	145.1*	2,3,4,5-Tetrachlorophenol
----		----		0.0000	0.0000	---	2,4-Dichlorophenol
19.678	0.018 238852	20.916	0.013 356427	18.5	17.8	4.0	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

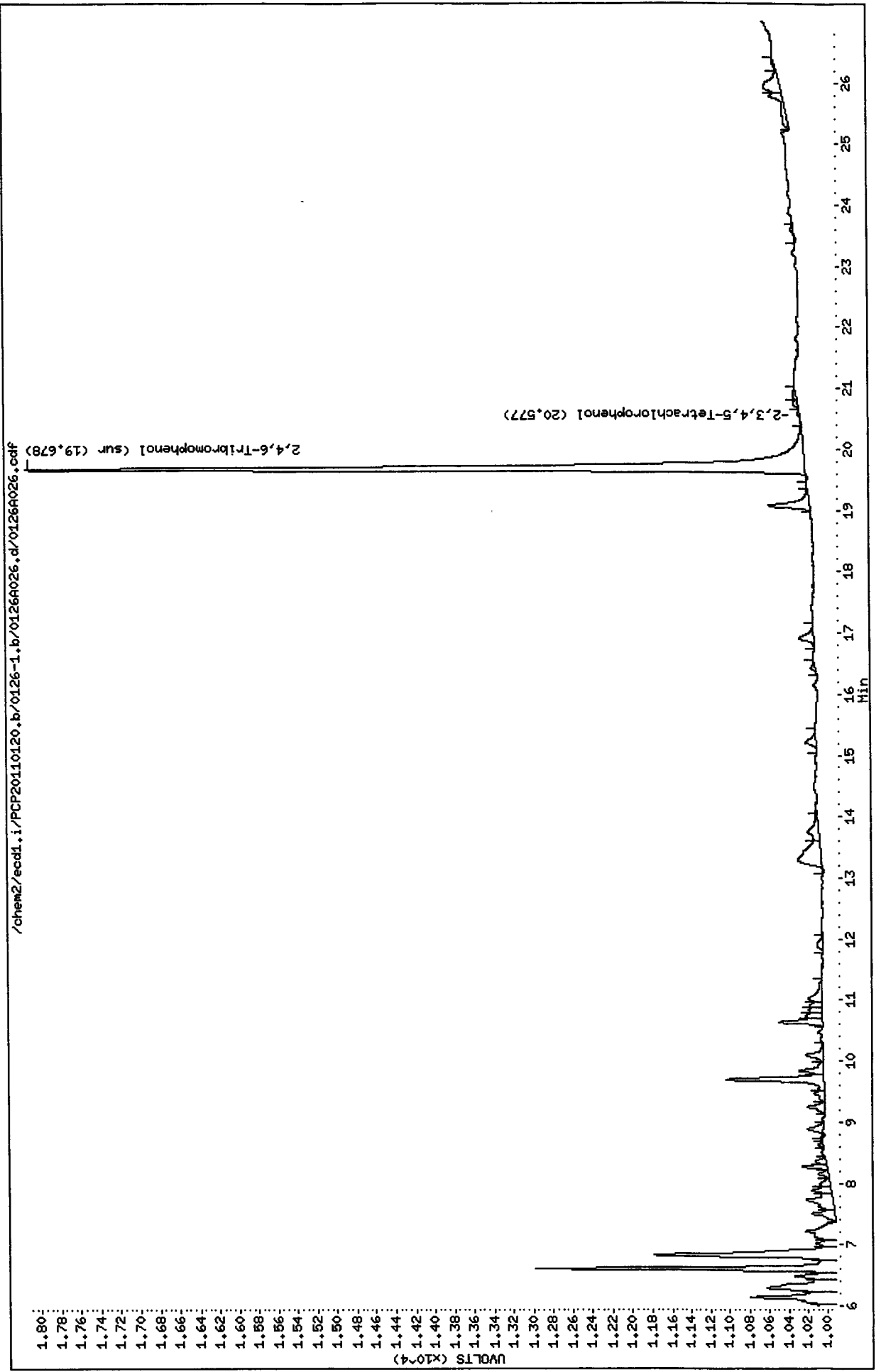
COMPOUND	Col1	Col2
2,4,6-TBP (surr)	74.1	71.2





Data File: /chem2/ecdl.i/PCP20110120.b/0126-1.b/0126A026.d
Date : 26-JAN-2011 22:16
Client ID: SF26HBM1
Sample Info: SF26HBM1
Purge Volume: 2.0
Column phase: ZB5

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



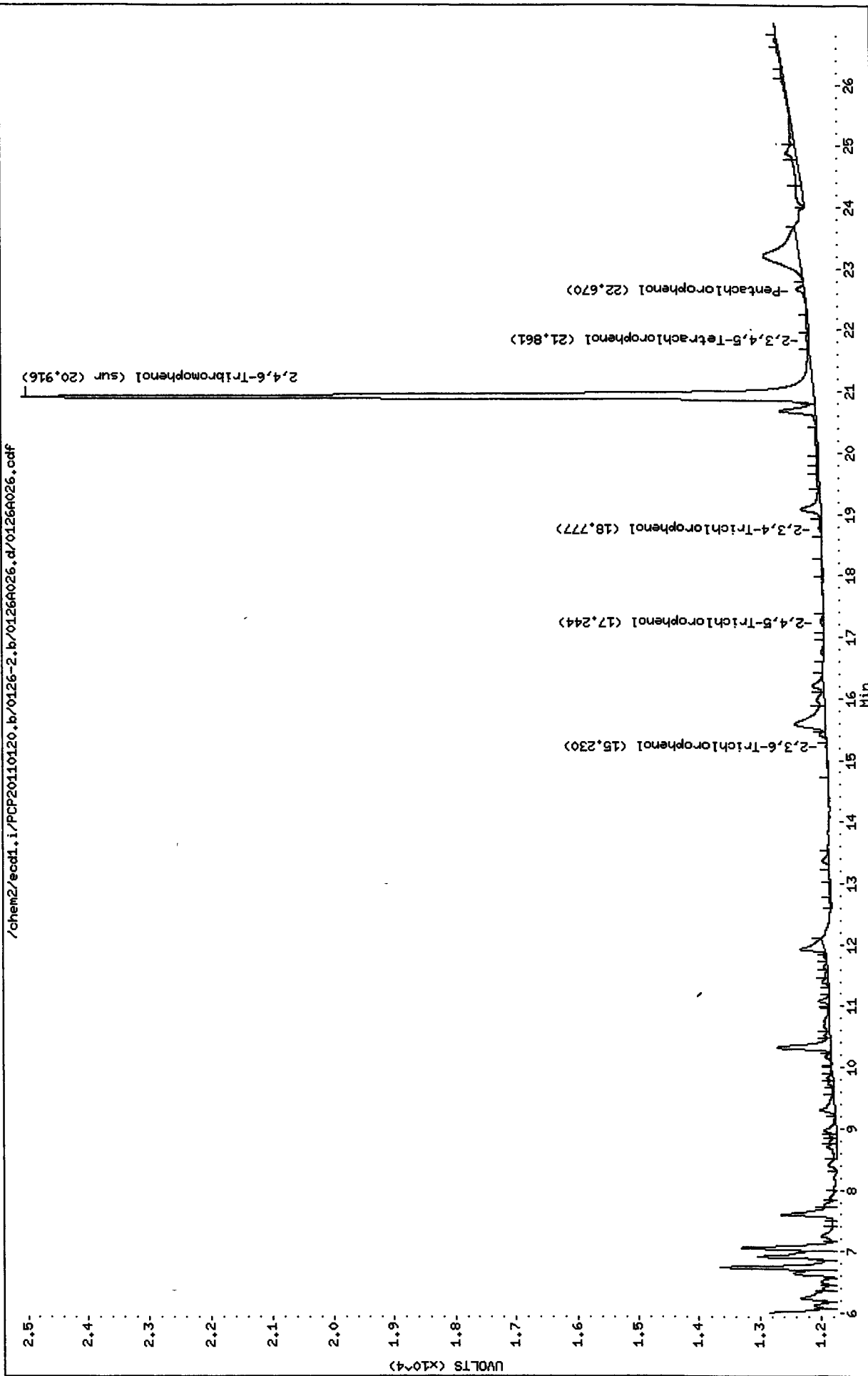
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Date : 26-JAN-2011 22:16
Client ID: SF26HBM1
Sample Info: SF26HBM1
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecdl1.i

Operator: ar

Column diameter: 0.53

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Analytical Resources Inc.
 Dual Column 8041 Chlorinated Phenols Quantitation Report

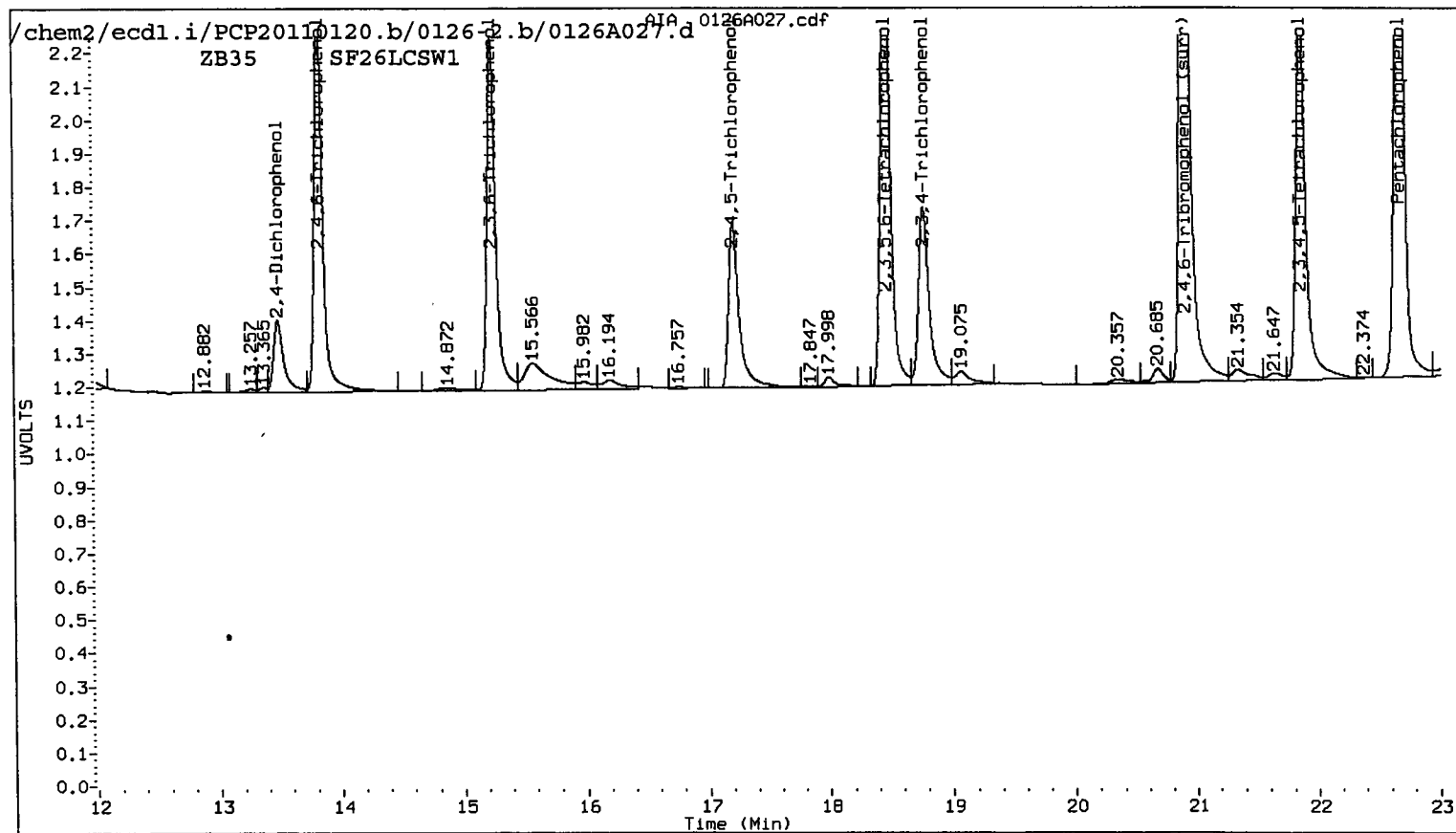
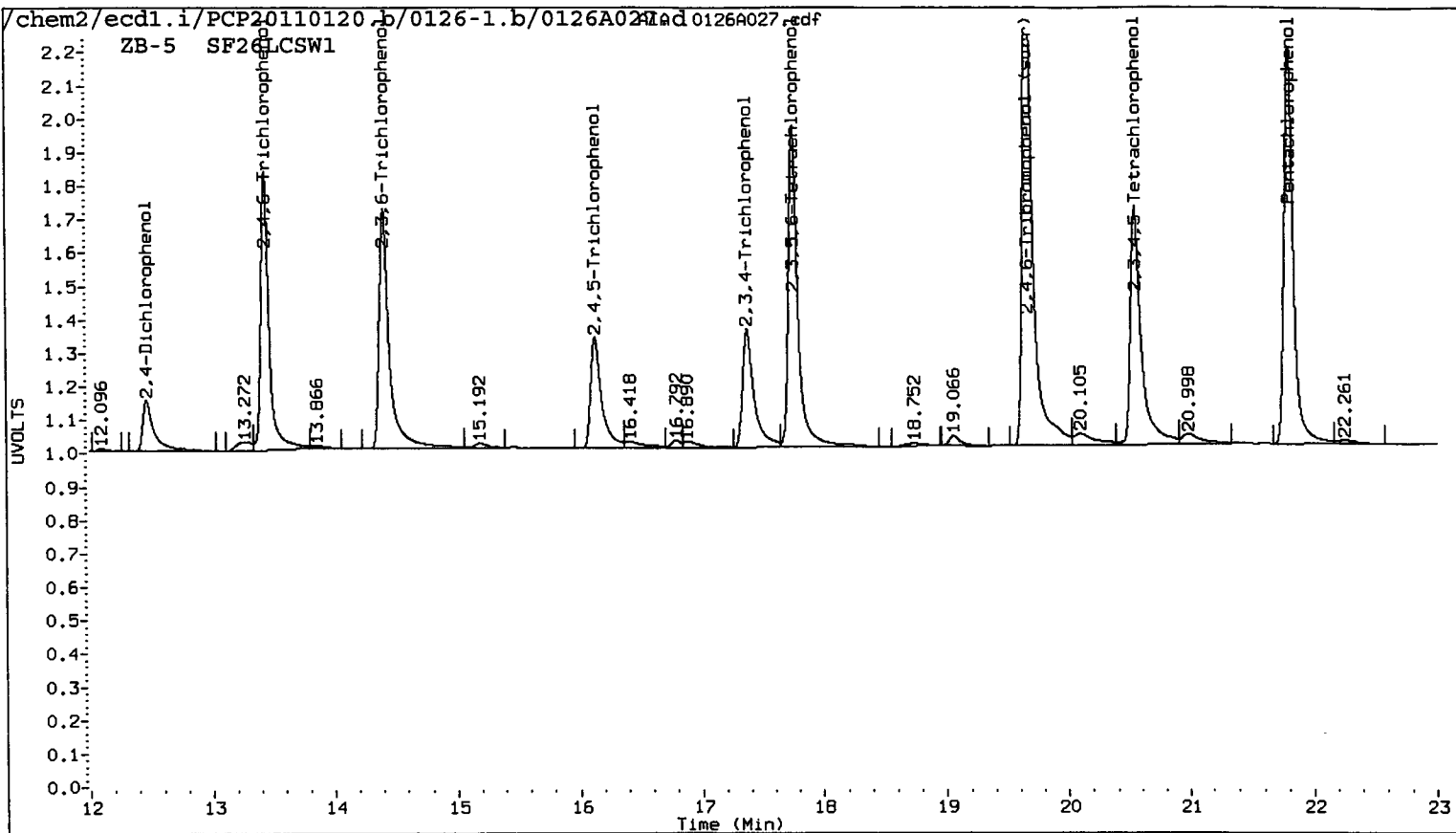
AR 1/27/2011

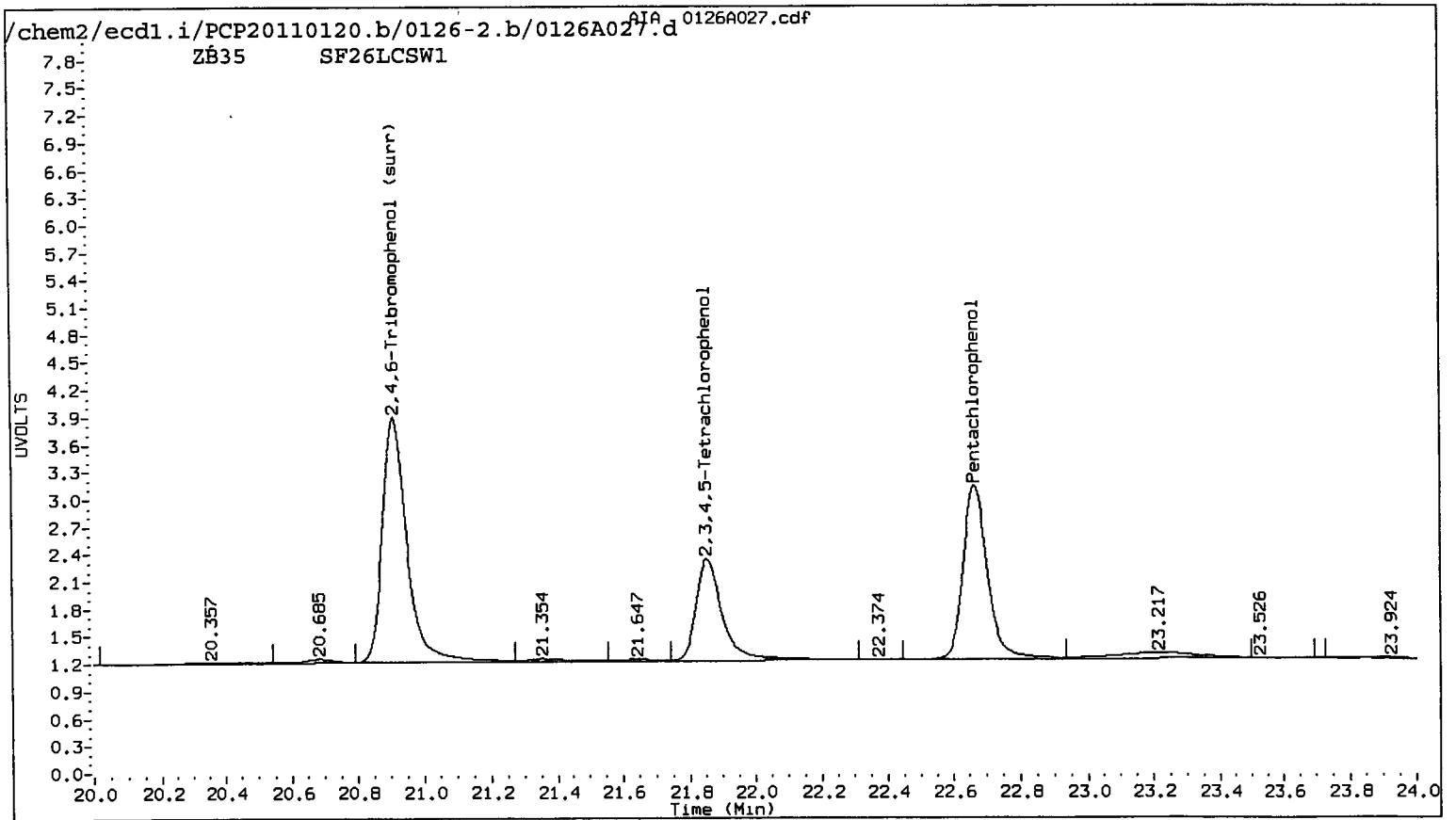
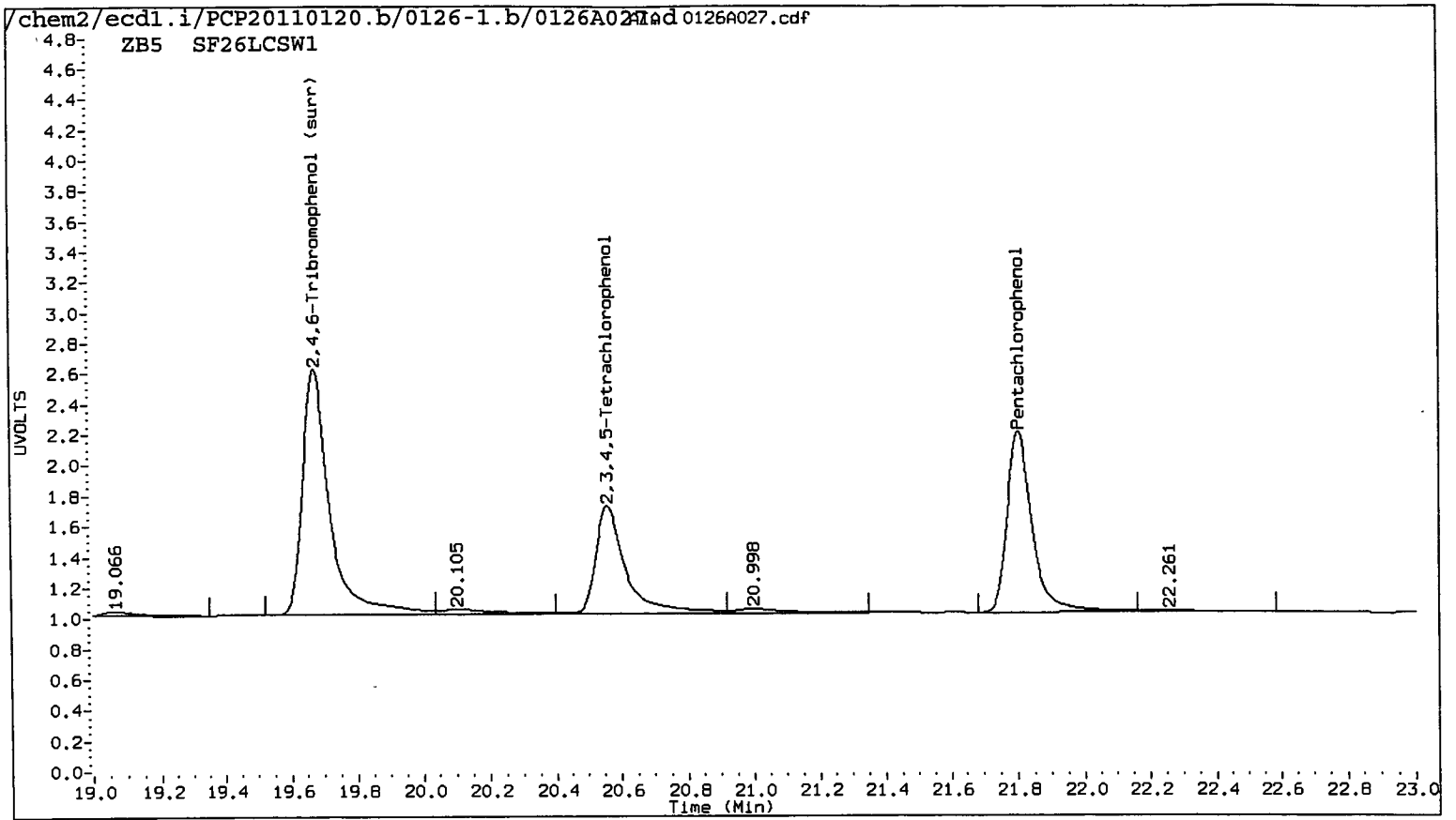
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 Data file 2: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A027.d Client ID: SF26LCSW1
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 26-JAN-2011 22:53
 Compound Sublist: all Report Date: 01/27/2011 12:43
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

RT	ZB-5 Col Shift Response	RT	ZB35 Col Shift Response	ZB-5 on col	ZB35 on col	RPD	Compound
21.806	0.007 306053	22.668	0.006 481291	18.8659	18.3555	2.7	Pentachlorophenol
13.435	0.005 199670	13.822	0.006 272688	20.7854	18.4614	11.8	2,4,6-Trichlorophenol
14.407	0.009 207554	15.232	0.009 267462	22.8012	19.4867	15.7	2,3,6-Trichlorophenol
16.131	0.021 105020	17.207	0.015 149774	22.2059	18.5948	17.7	2,4,5-Trichlorophenol
17.373	0.018 116390	18.768	0.013 161701	18.3588	17.5551	4.5	2,3,4-Trichlorophenol
17.753	0.013 267236	18.461	0.010 374091	19.1594	17.7332	7.7	2,3,5,6-Tetrachlorophenol
20.559	0.011 223861	21.855	0.009 313130	21.1183	19.5152	7.9	2,3,4,5-Tetrachlorophenol
12.464	0.011 51084	13.480	0.012 63088	87.0585	69.3405	22.7	2,4-Dichlorophenol
19.672	0.012 457559	20.911	0.009 696877	35.5	34.8	2.0	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	75.5	73.4
2,4,6-Trichlorophenol	83.1	73.8
2,3,6-Trichlorophenol	91.2	77.9
2,4,5-Trichlorophenol	88.8	74.4
2,3,4-Trichlorophenol	73.4	70.2
2,3,5,6-Tetrachlorophenol	76.6	70.9
2,3,4,5-Tetrachlorophenol	84.5	78.1
2,4-Dichlorophenol	34.8	27.7
2,4,6-TBP (surr)	71.0	69.6

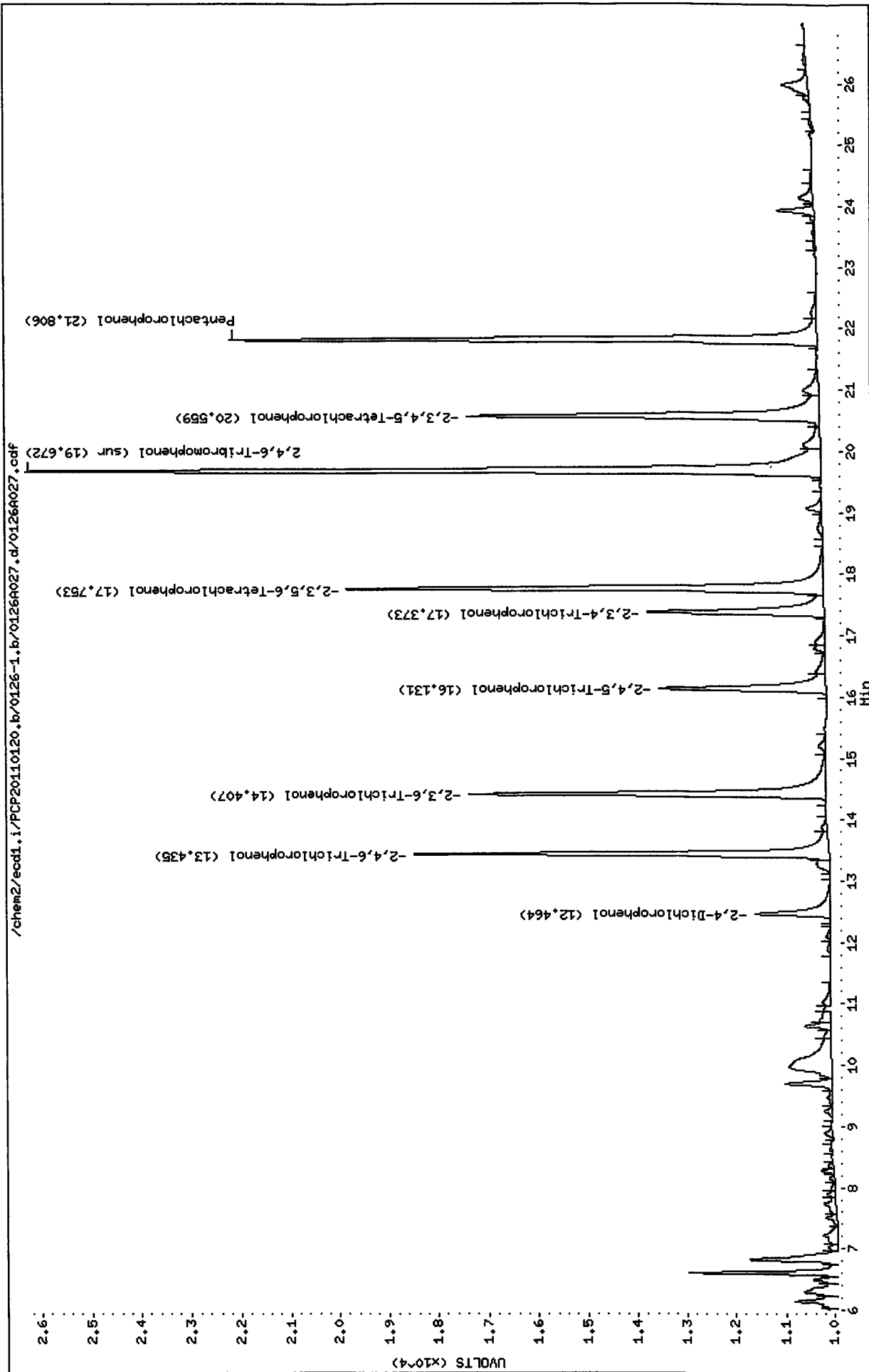




Data File: /chem2/ecdl1.i/PCP20110120.b/0126-1.b/0126A027.d
Date : 26-JAN-2011 22:53
Client ID: SF26LCSM1
Sample Info: SF26LCSM1
Purge Volume: 2.0
Column phase: ZB5

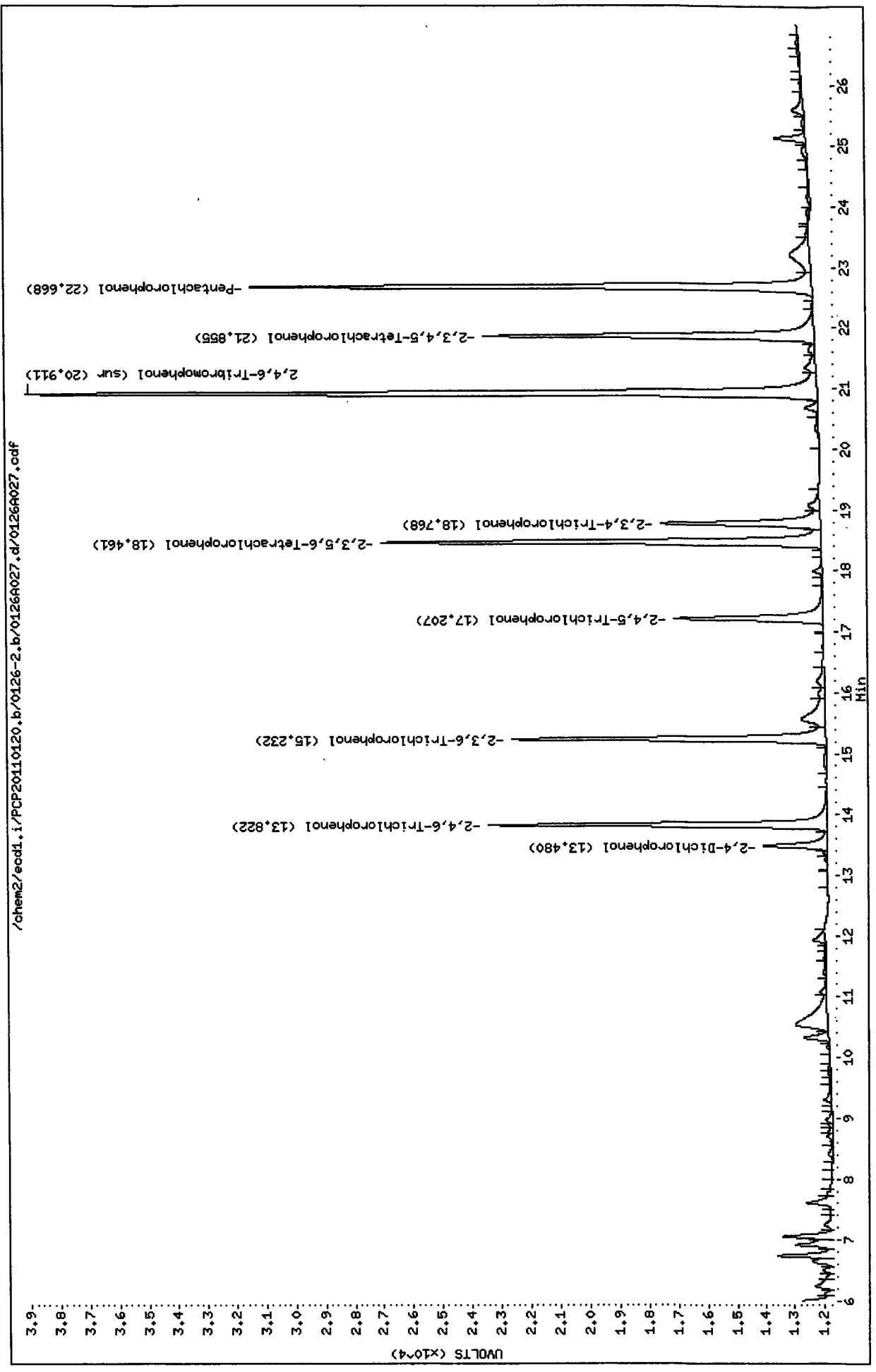
Instrument: ecdl1.i

Operator: ar
Column diameter: 0.53



Data File: /chem2/eod1.i/PCP20110120.b/0126-2.b/0126A027.d
Date : 26-JAN-2011 22:53
Client ID: SF26LCSM1
Sample Info: SF26LCSM1
Purge Volume: 2.0
Column phase: ZB35

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



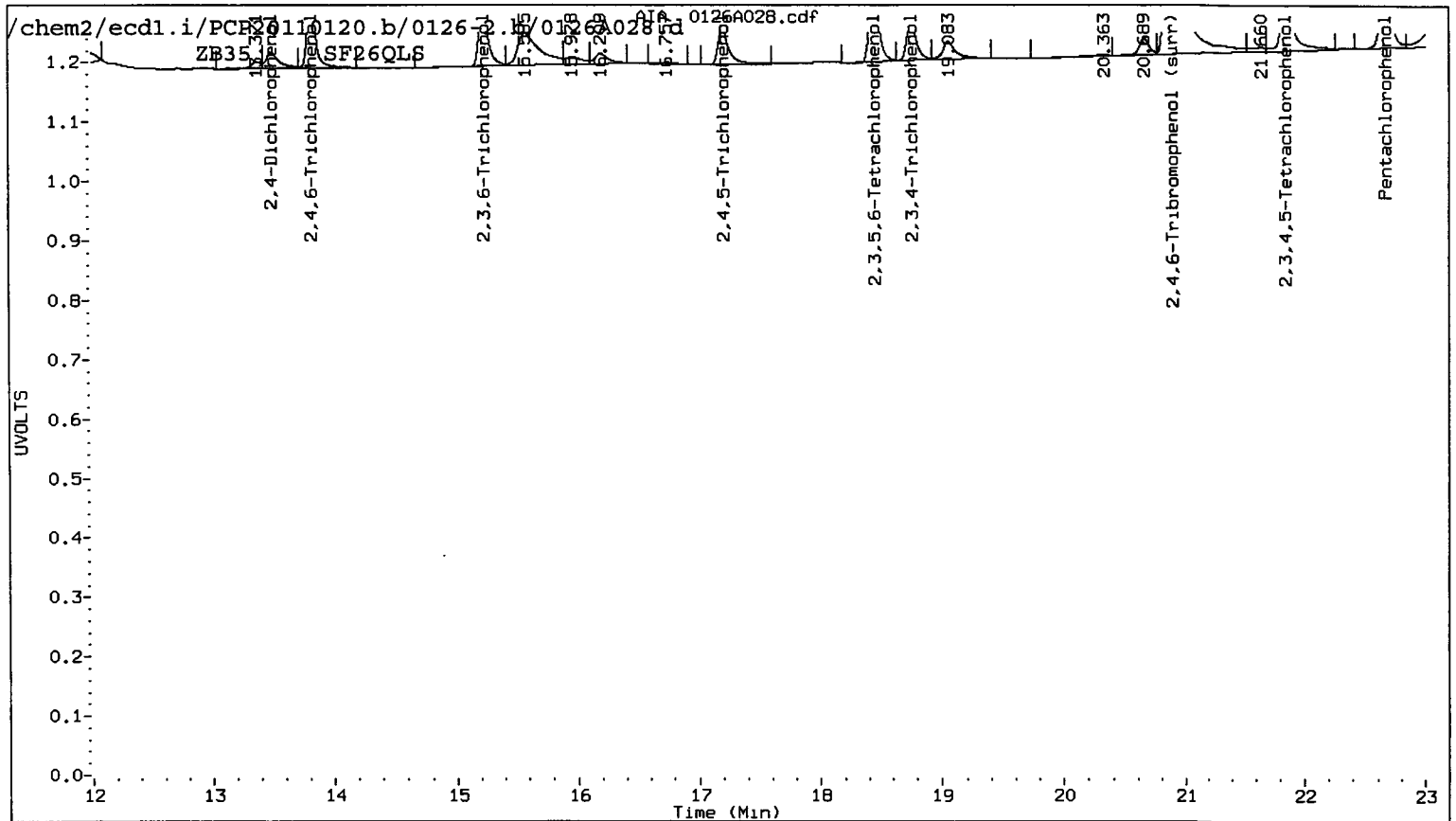
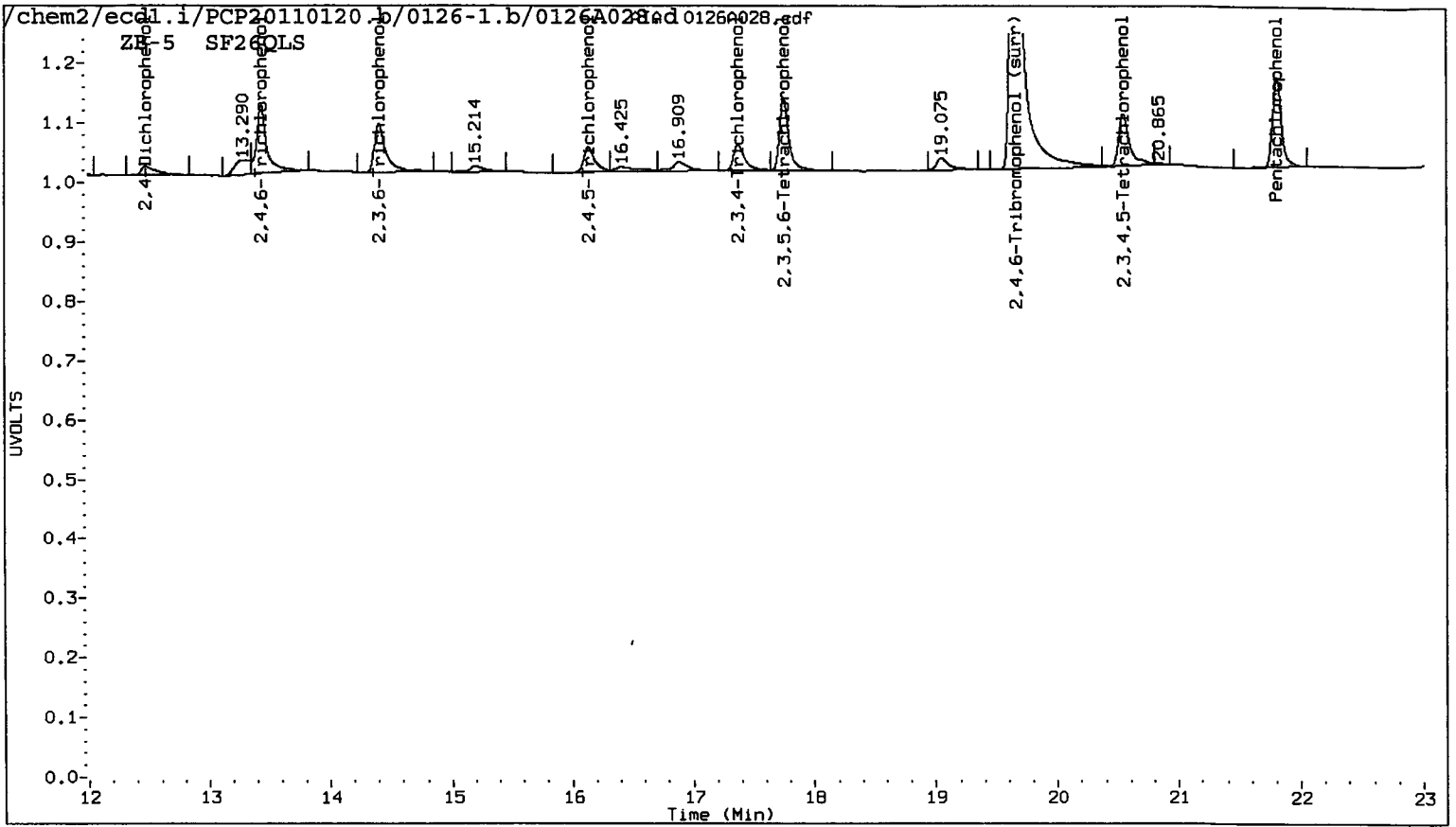
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

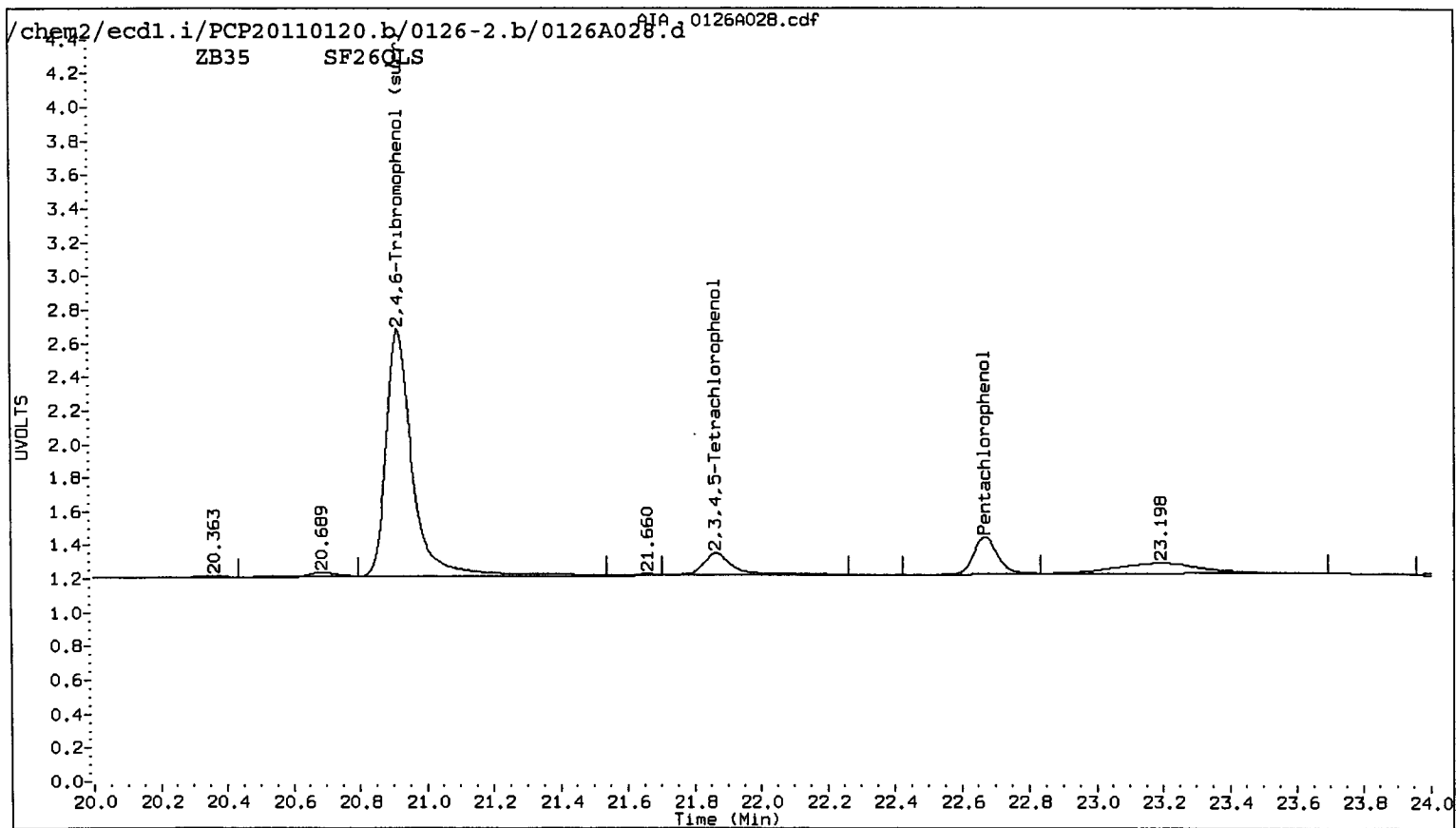
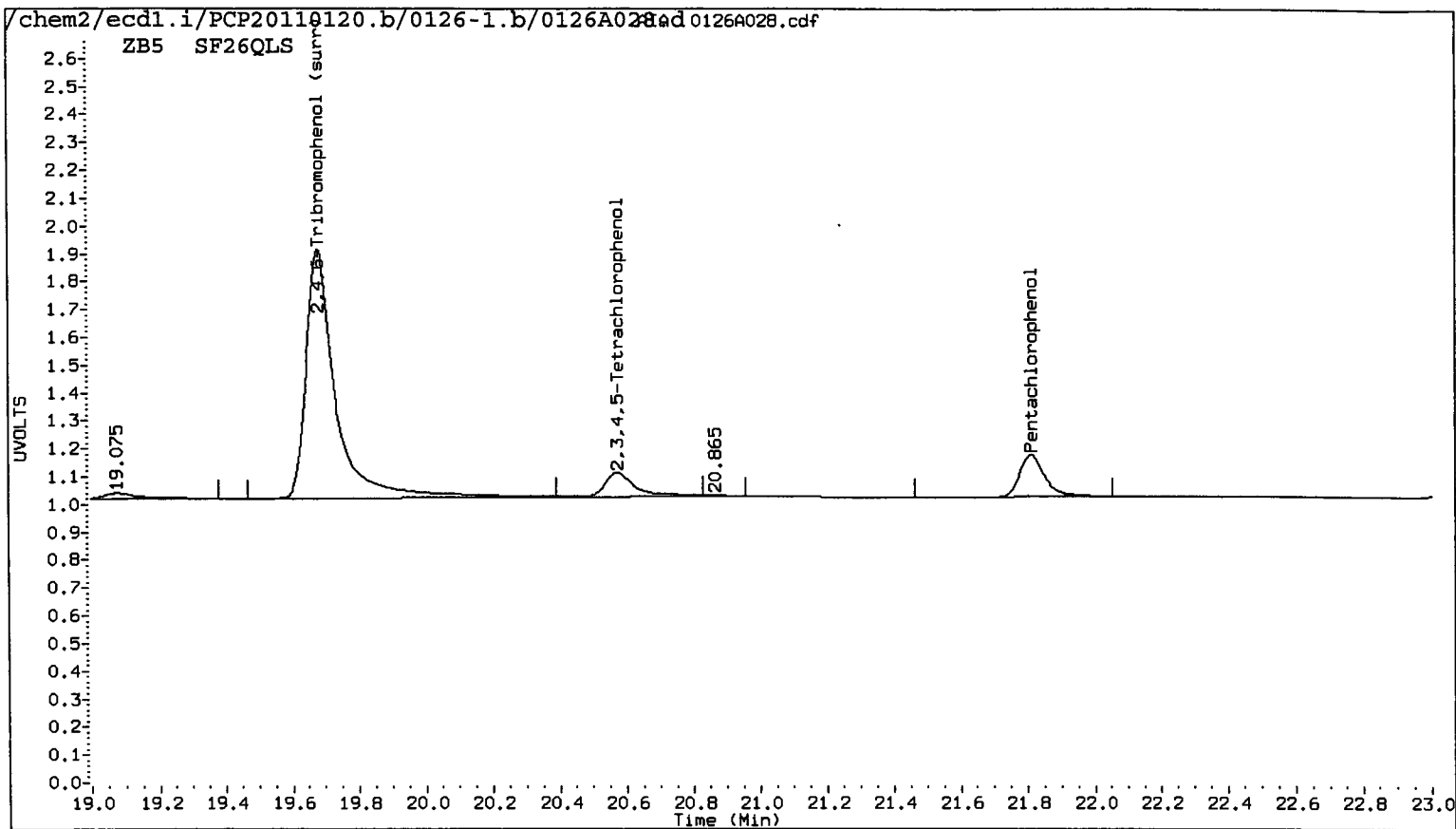
Data file 1: /chem2/ecdl.i/PCP20110120.b/0126-1.b/0126A028.d ARI ID: SF26QLS
 Data file 2: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A028.d Client ID:
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 26-JAN-2011 23:29
 Compound Sublist: all Report Date: 01/27/2011 12:43
 Instrument: ecdl.i Matrix: 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		
21.813	0.015	37189	22.671	0.010	55885	2.2925	2.1314	7.3	Pentachlorophenol
13.436	0.006	34314	13.823	0.006	32833	3.2688	2.2229	38.1	2,4,6-Trichlorophenol
14.413	0.016	26018	15.236	0.012	30467	2.8582	2.2198	25.1	2,3,6-Trichlorophenol
16.149	0.039	13038	17.220	0.028	18454	2.7570	2.2912	18.5	2,4,5-Trichlorophenol
17.390	0.034	14300	18.777	0.022	18460	2.2557	2.0042	11.8	2,3,4-Trichlorophenol
17.765	0.025	33416	18.468	0.018	41739	2.3958	1.9786	19.1	2,3,5,6-Tetrachlorophenol
20.573	0.025	26427	21.864	0.018	42480	2.4931	2.6475	6.0	2,3,4,5-Tetrachlorophenol
12.475	0.022	5928	13.487	0.019	10372	9.4550	10.5458	10.9	2,4-Dichlorophenol
19.680	0.020	273470	20.915	0.013	403043	21.2	20.1	5.2	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	84.9	80.5





Data File: /chem2/eod1.i/PCP20110120.b/0126-1.b/01266028.d

Date : 26-JAN-2011 23:29

Client ID:

Sample Info: SF26QLS

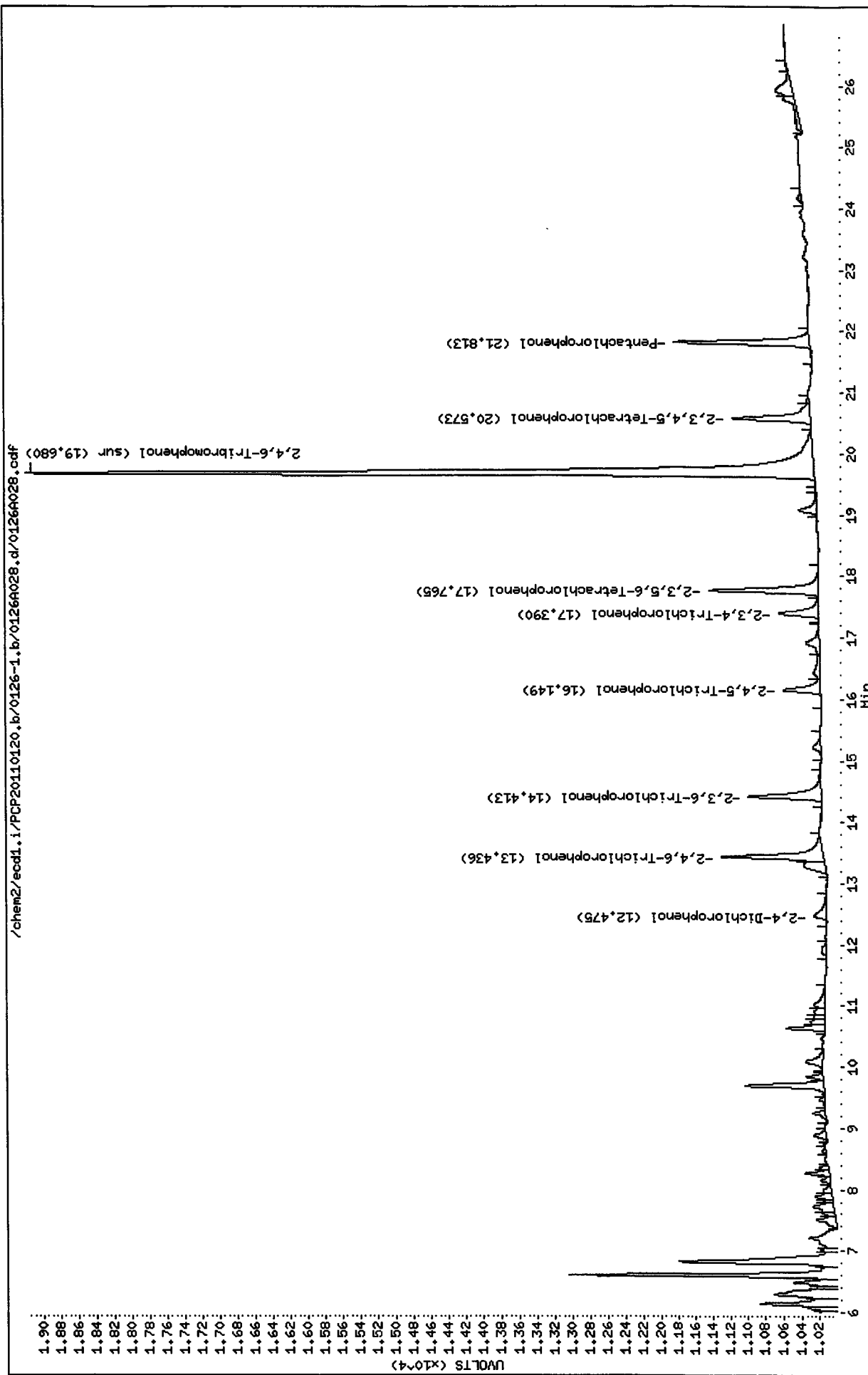
Purge Volume: 2.0

Column phase: ZB5

Instrument: eod1.i

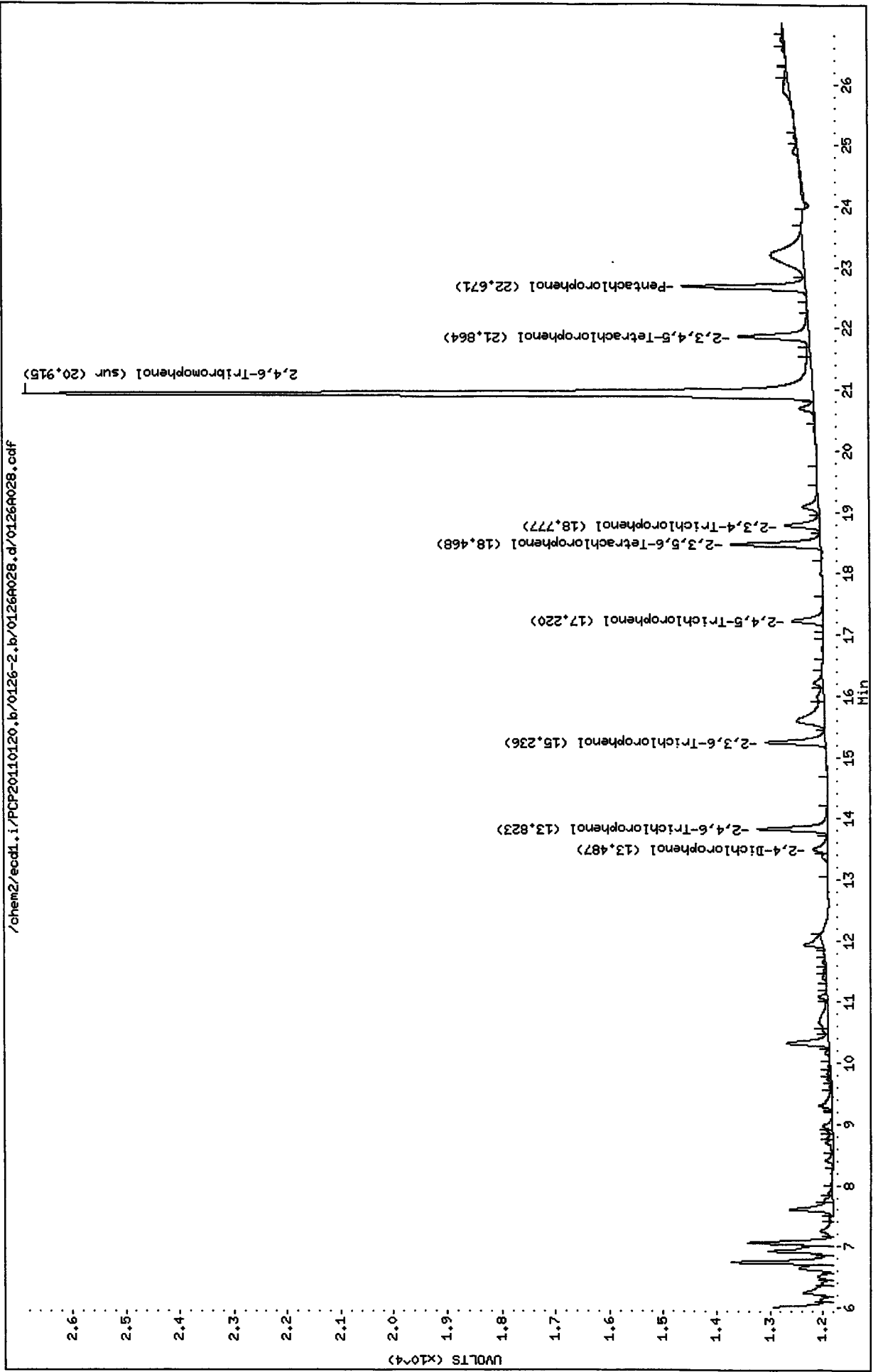
Operator: ar

Column diameter: 0.53



Data File: /chem2/eod1.i/PCP20110120.b/0126-2.b/0126A028.d
Date : 26-JAN-2011 23:29
Client ID:
Sample Info: SF26QLS
Purge Volume: 2.0
Column phase: ZB35

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



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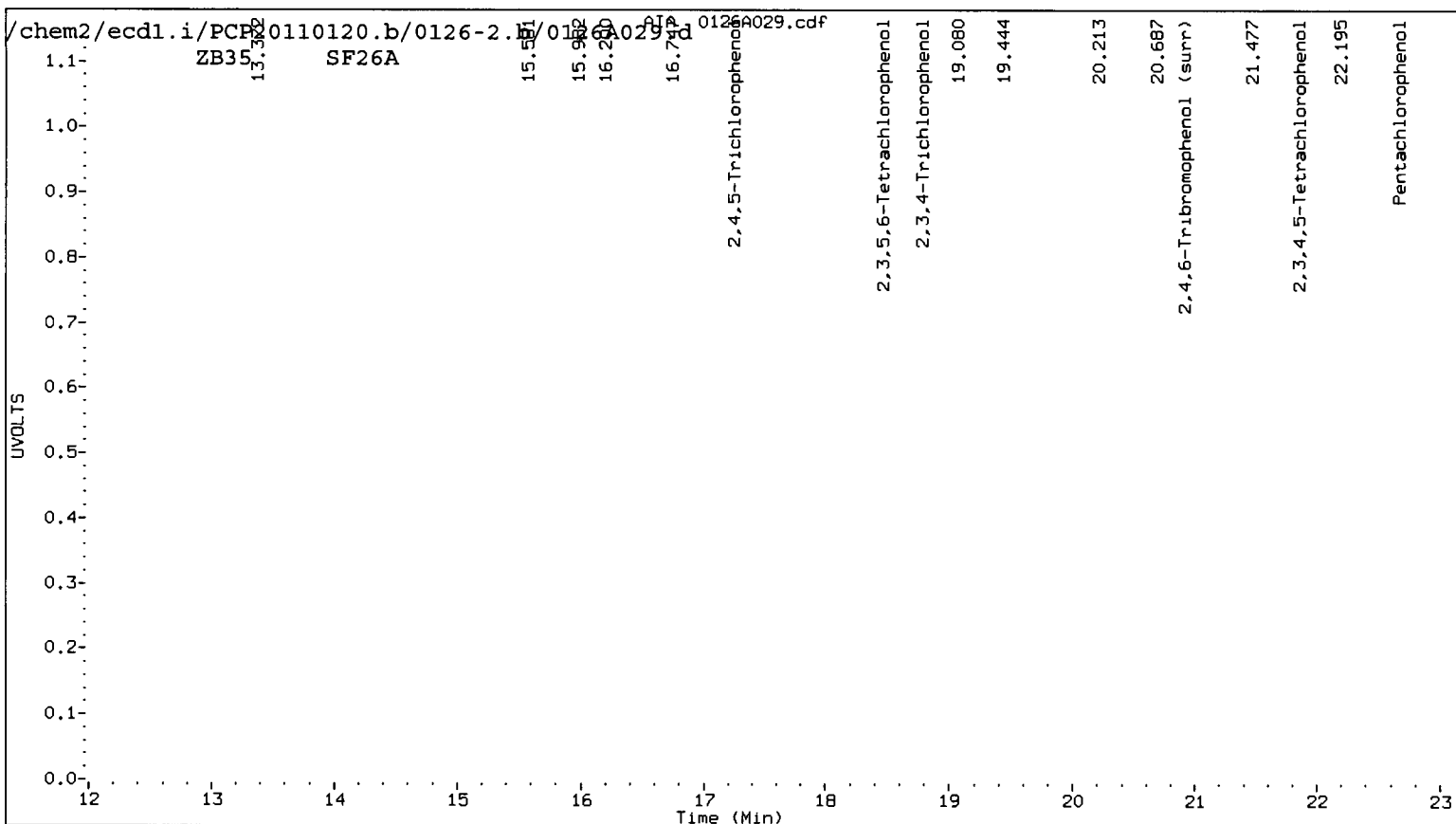
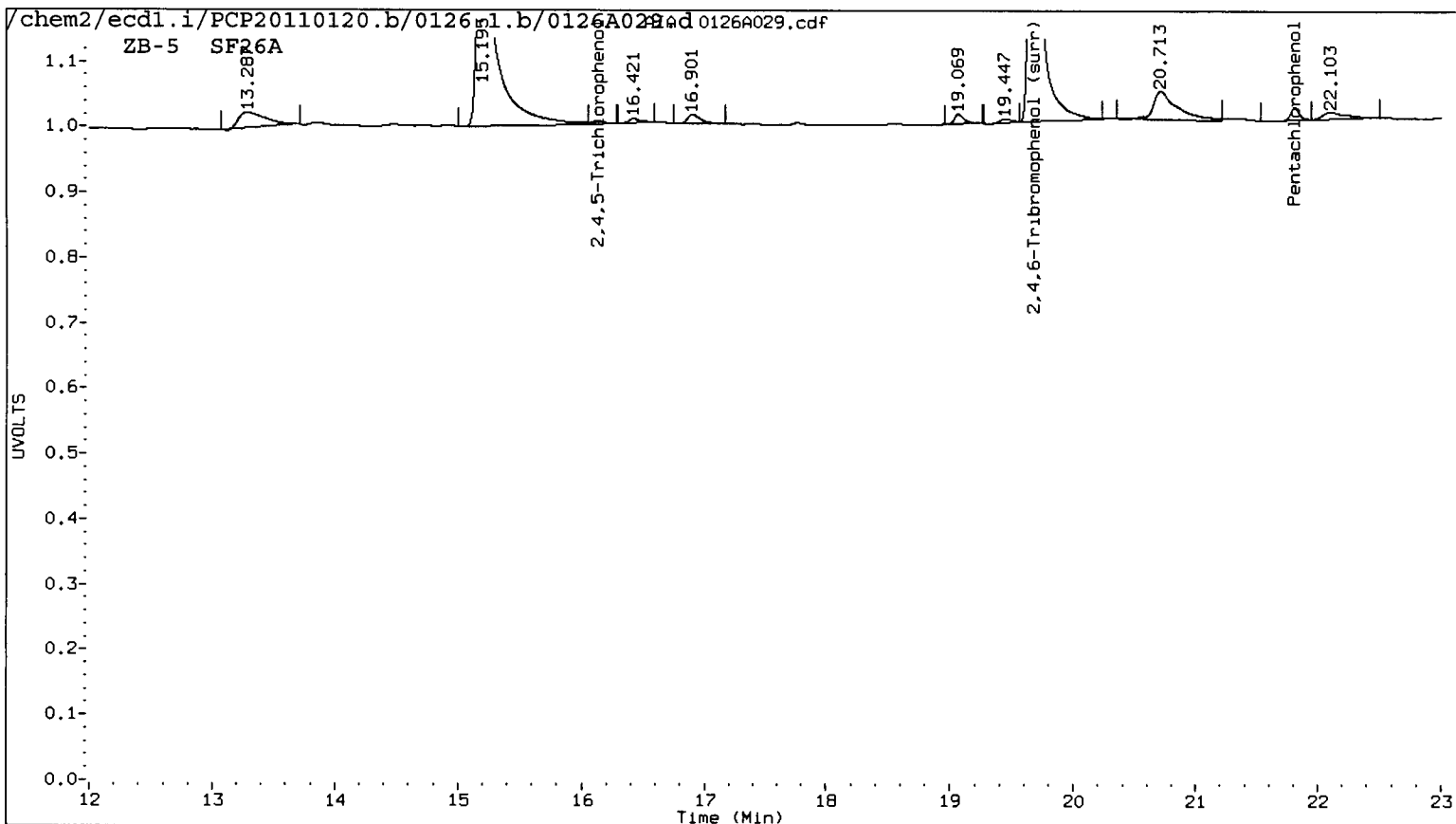
AR 1/27/2011

Data file 1: /chem2/ecdl.i/PCP20110120.b/0126-1.b/0126A029.d ARI ID: SF26A
 Data file 2: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A029.d Client ID: MW11-011911
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 27-JAN-2011 00:05
 Compound Sublist: all Report Date: 01/27/2011 12:43
 Instrument: ecd1.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

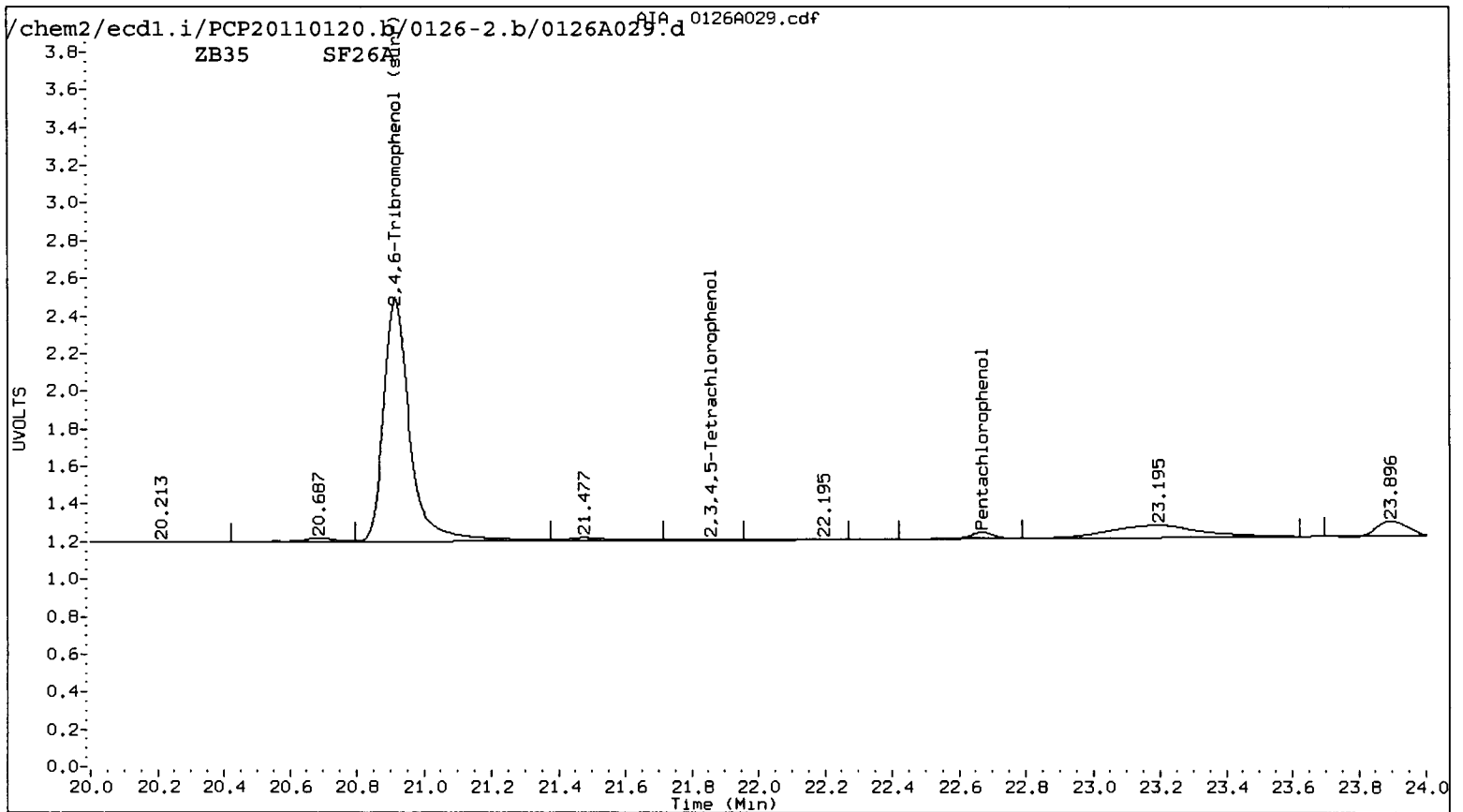
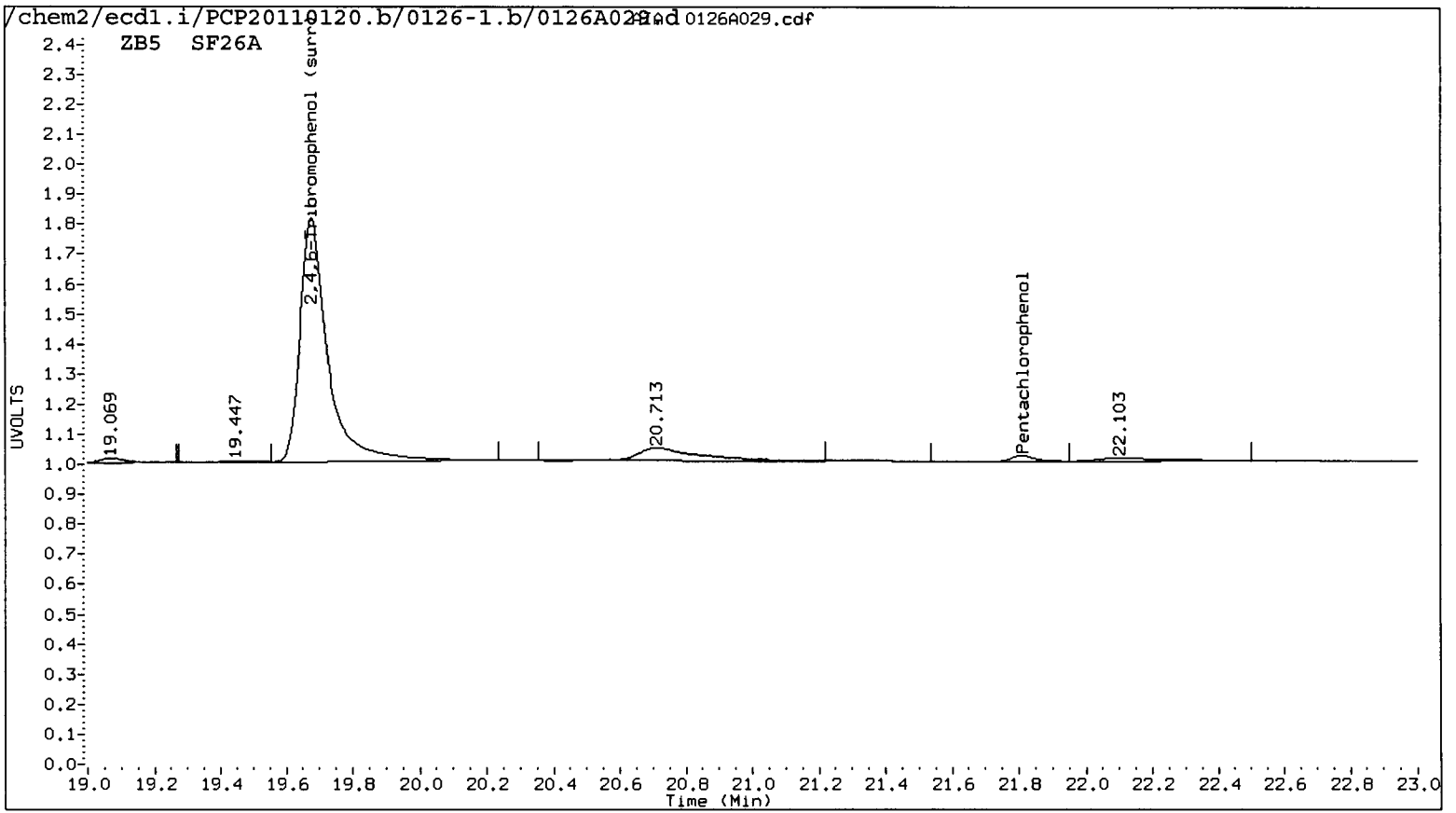
ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
21.812	0.014	5249	22.670	0.008	10184	0.3236	0.3884 <i>✓</i>	18.2	Pentachlorophenol
----			----			0.0000	0.0000	---	2,4,6-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,6-Trichlorophenol
16.133	0.023	1711	17.251	0.059	2304	0.3619	0.2861	23.4	2,4,5-Trichlorophenol
----			18.782	0.027	846	0.0000	0.0918	---	2,3,4-Trichlorophenol
----			18.472	0.021	1642	0.0000	0.0779	---	2,3,5,6-Tetrachlorophenol
----			21.860	0.014	3033	0.0000	0.1891	---	2,3,4,5-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,4-Dichlorophenol
19.678	0.018 <i>✓</i>	236174	20.916	0.013 <i>✓</i>	352522	18.3	17.6 <i>✓</i>	4.0	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	73.3	70.4 <i>✓</i>



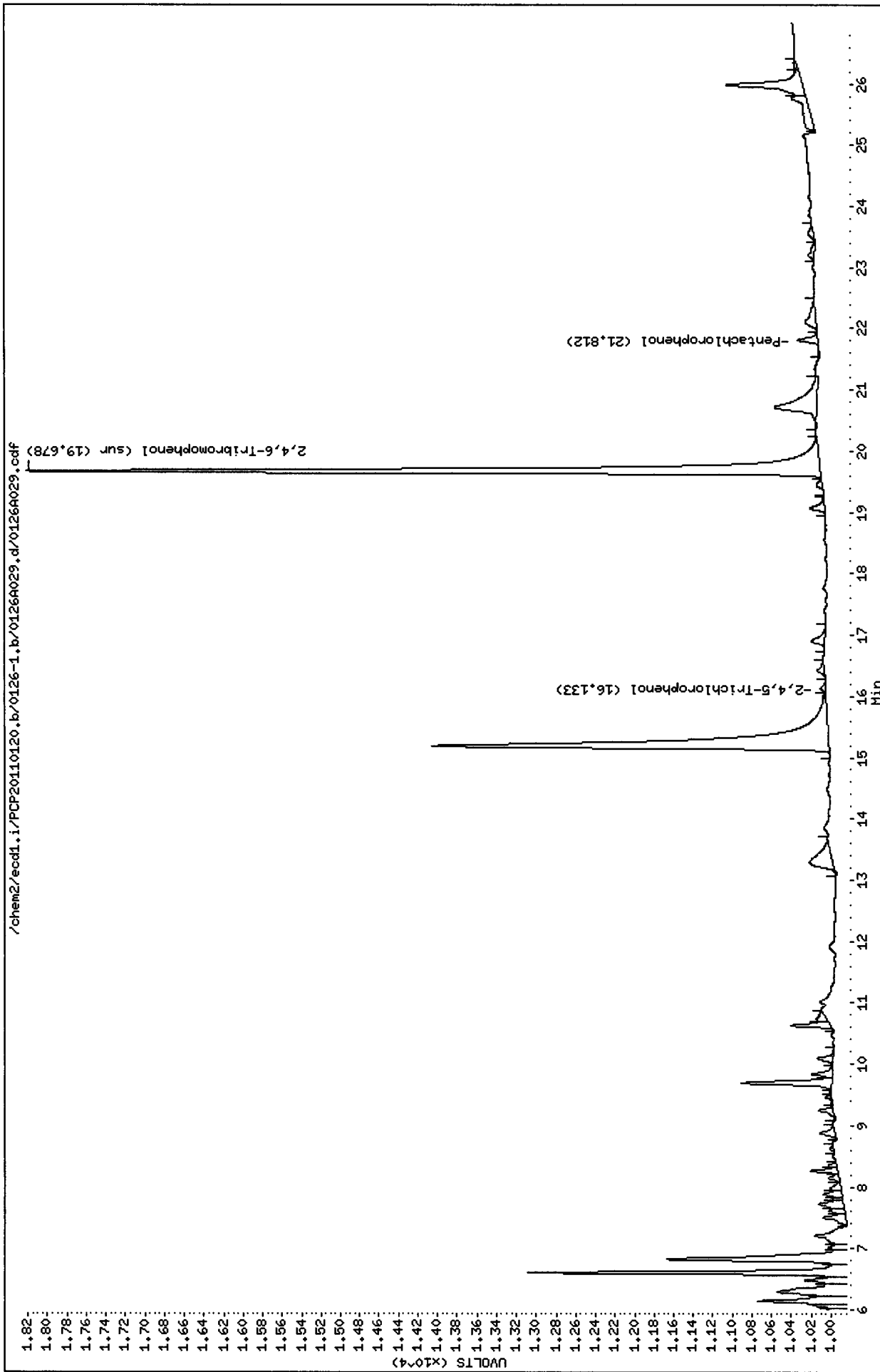
SF26: 01012



Data File: /chem2/ecd1.i/PCP20110120.b/0126-1.b/0126A029.d
Date : 27-JAN-2011 00:05
Client ID: MM11-011911
Sample Info: SF26A
Purge Volume: 2.0
Column phase: ZB5

Instrument: ecd1.i

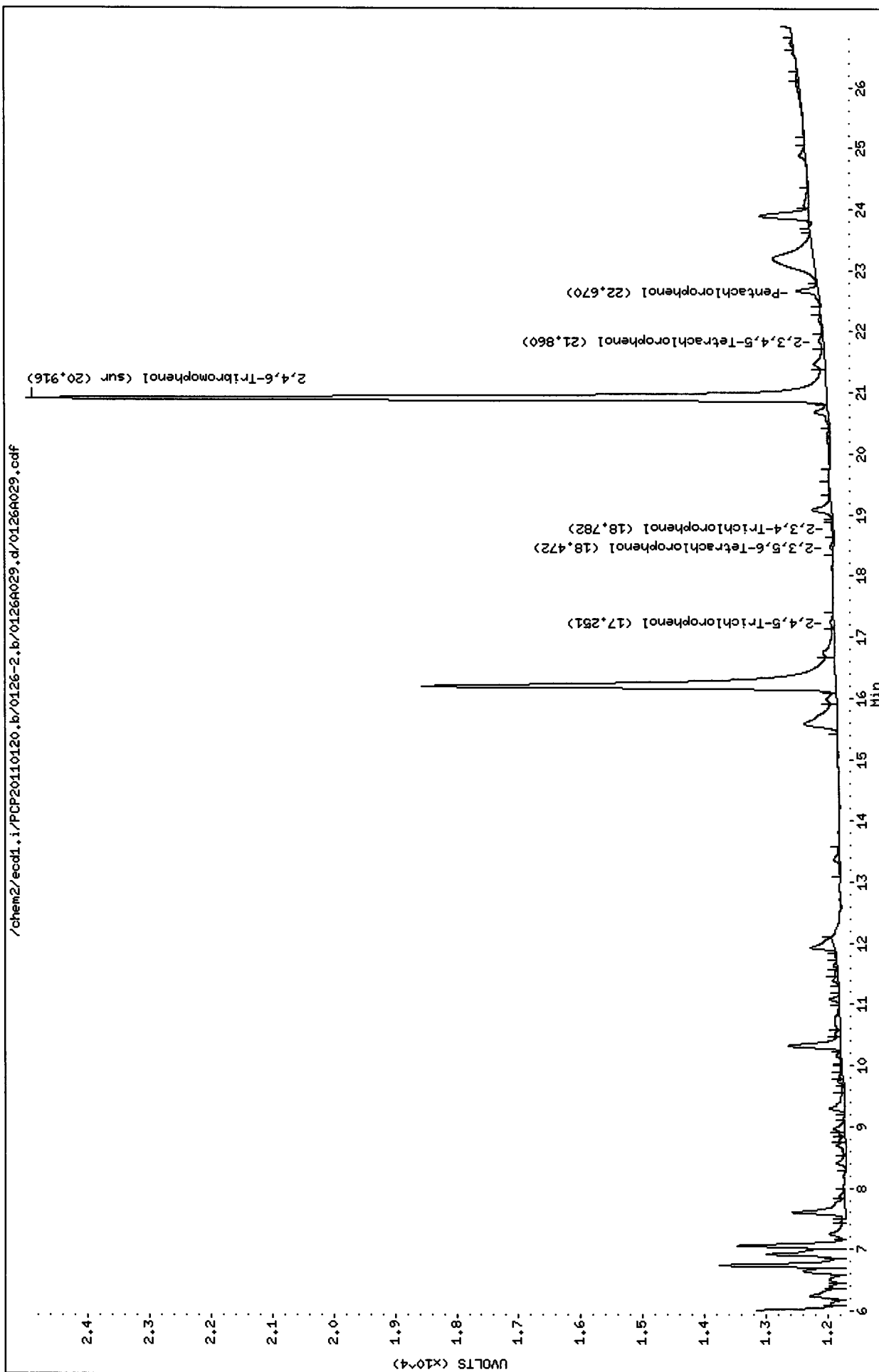
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A029.d
Date : 27-JAN-2011 00:05
Client ID: MM11-011911
Sample Info: SF26A
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecdl.i

Operator: ar
Column diameter: 0.53



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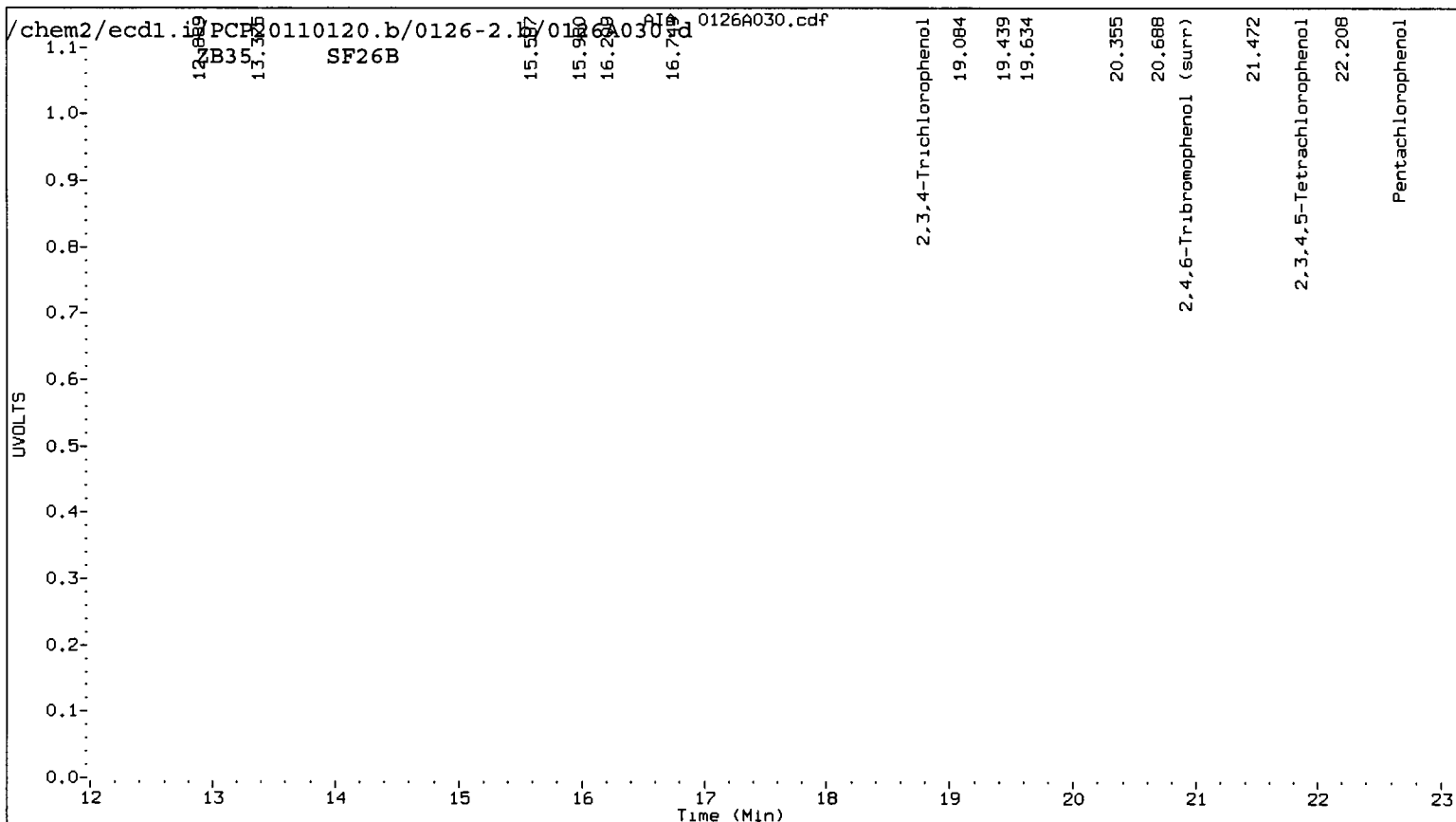
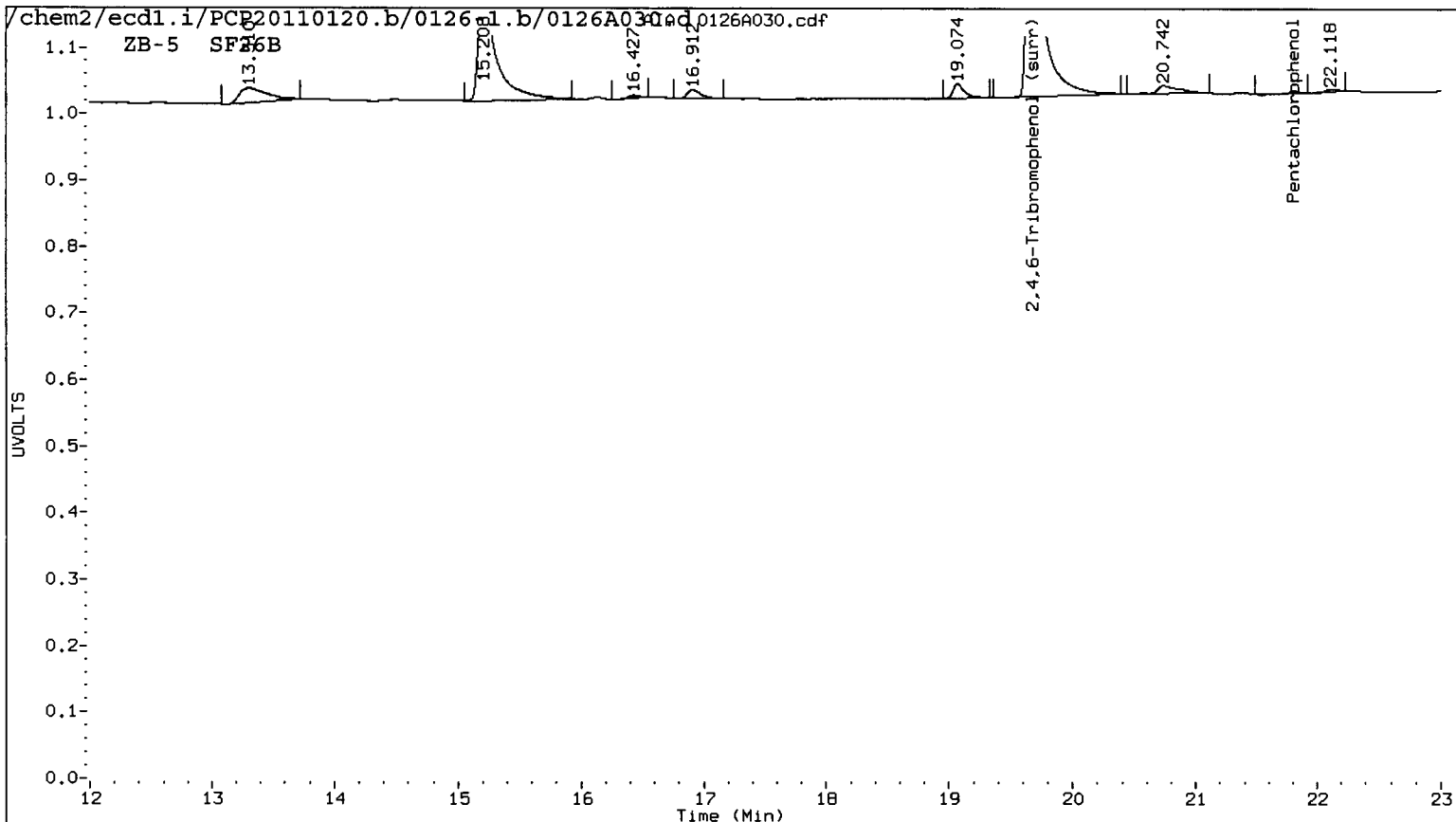
AR 1/27/2011

Data file 1: /chem2/ecdl.i/PCP20110120.b/0126-1.b/0126A030.d ARI ID: SF26B
 Data file 2: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A030.d Client ID: MW10-011911
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 27-JAN-2011 00:41
 Compound Sublist: all Report Date: 01/27/2011 12:43
 Instrument: ecd1.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

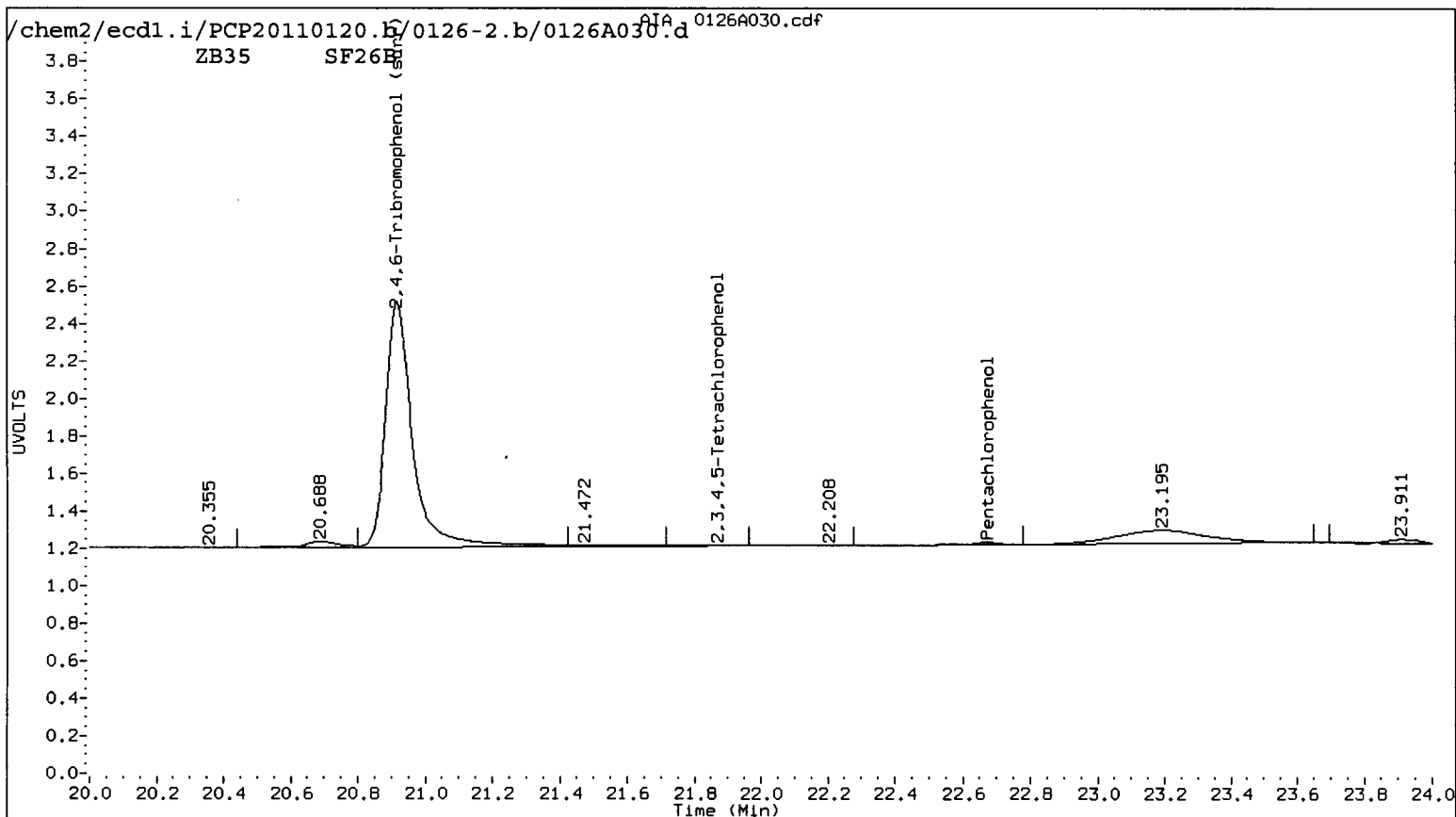
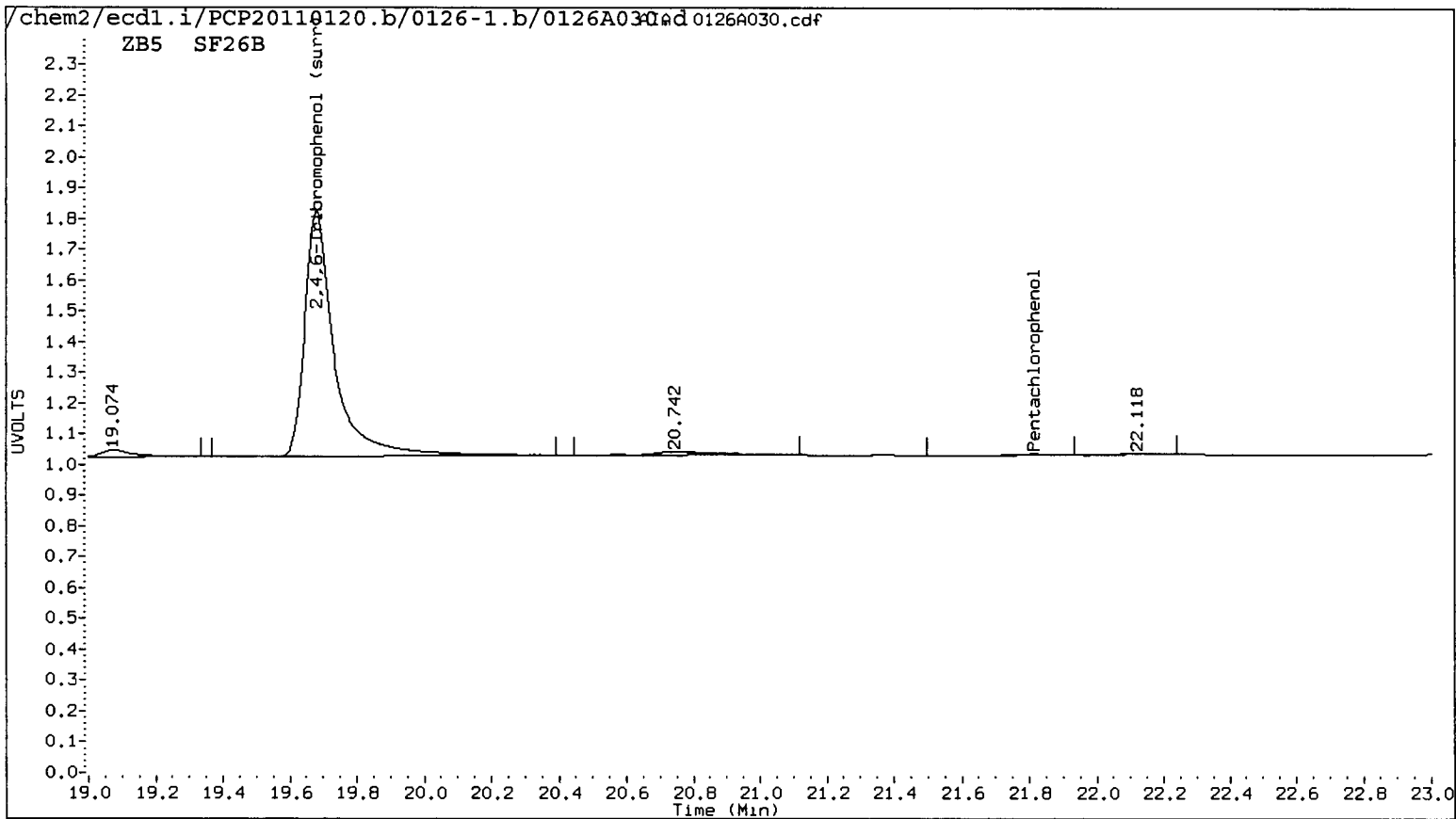
ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
21.813	0.015	633	22.673	0.012	3529	0.0391	0.1346	110.0*	Pentachlorophenol
----			----			0.0000	0.0000	---	2,4,6-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,6-Trichlorophenol
----			----			0.0000	0.0000	---	2,4,5-Trichlorophenol
----			18.785	0.030	912	0.0000	0.0991	---	2,3,4-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,5,6-Tetrachlorophenol
----			21.869	0.023	1937	0.0000	0.1207	---	2,3,4,5-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,4-Dichlorophenol
19.681	0.021	246423	20.916	0.014	362509	19.1	18.1	5.4	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	76.5	72.4 /



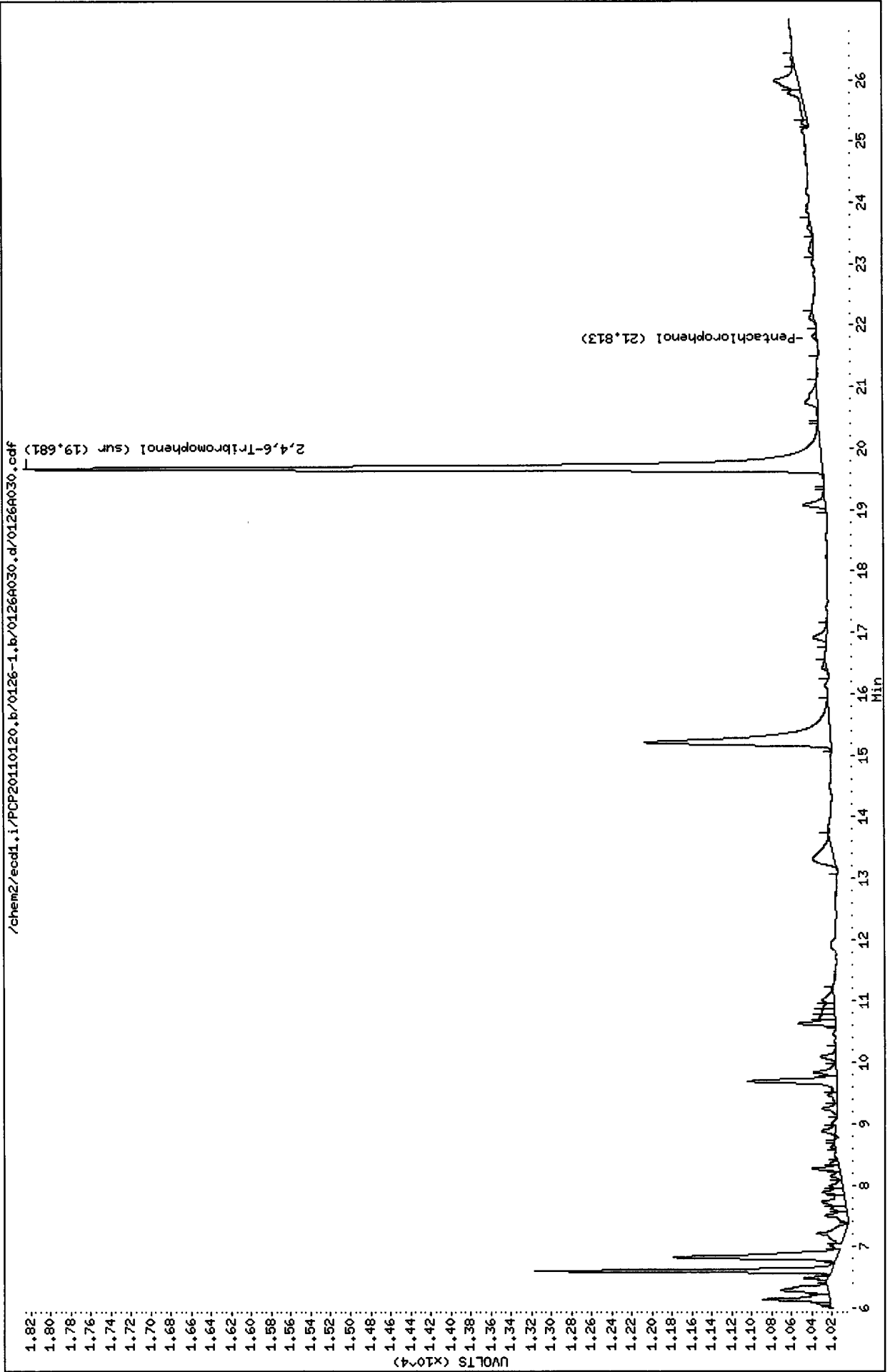
SF26: 01017



Data File: /chem2/ecdl.i/PCP20110120.b/0126-1.b/0126A030.d
Date : 27-JAN-2011 00:41
Client ID: MM10-011911
Sample Info: SF26B
Purge Volume: 2.0
Column phase: ZB5

Instrument: ecdl.i

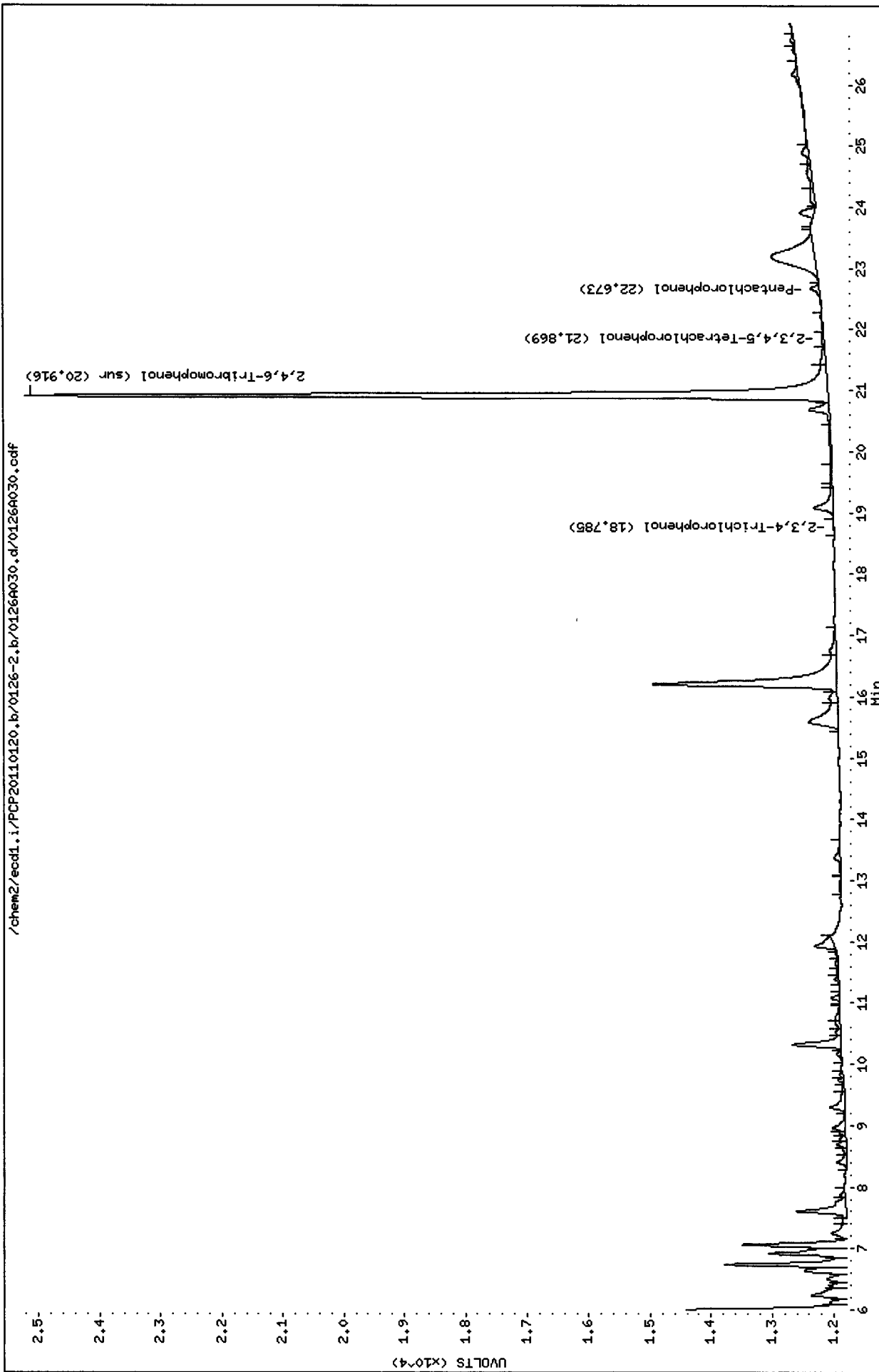
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A030.d
Date : 27-JAN-2011 00:41
Client ID: MM10-011911
Sample Info: SF26B
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecd1.i

Operator: ar
Column diameter: 0.53



Analytical Resources Inc.
 Dual Column 8041 Chlorinated Phenols Quantitation Report

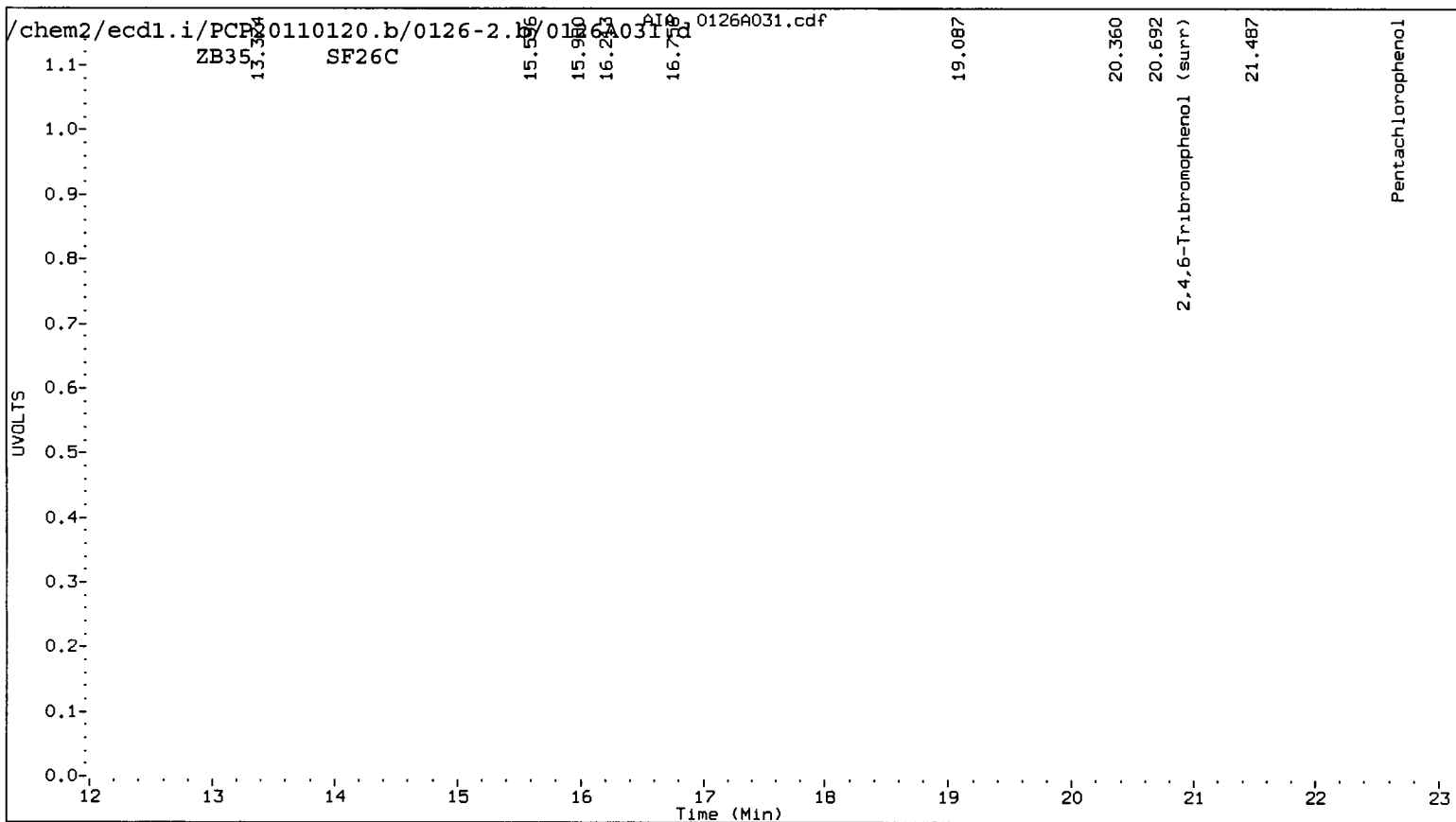
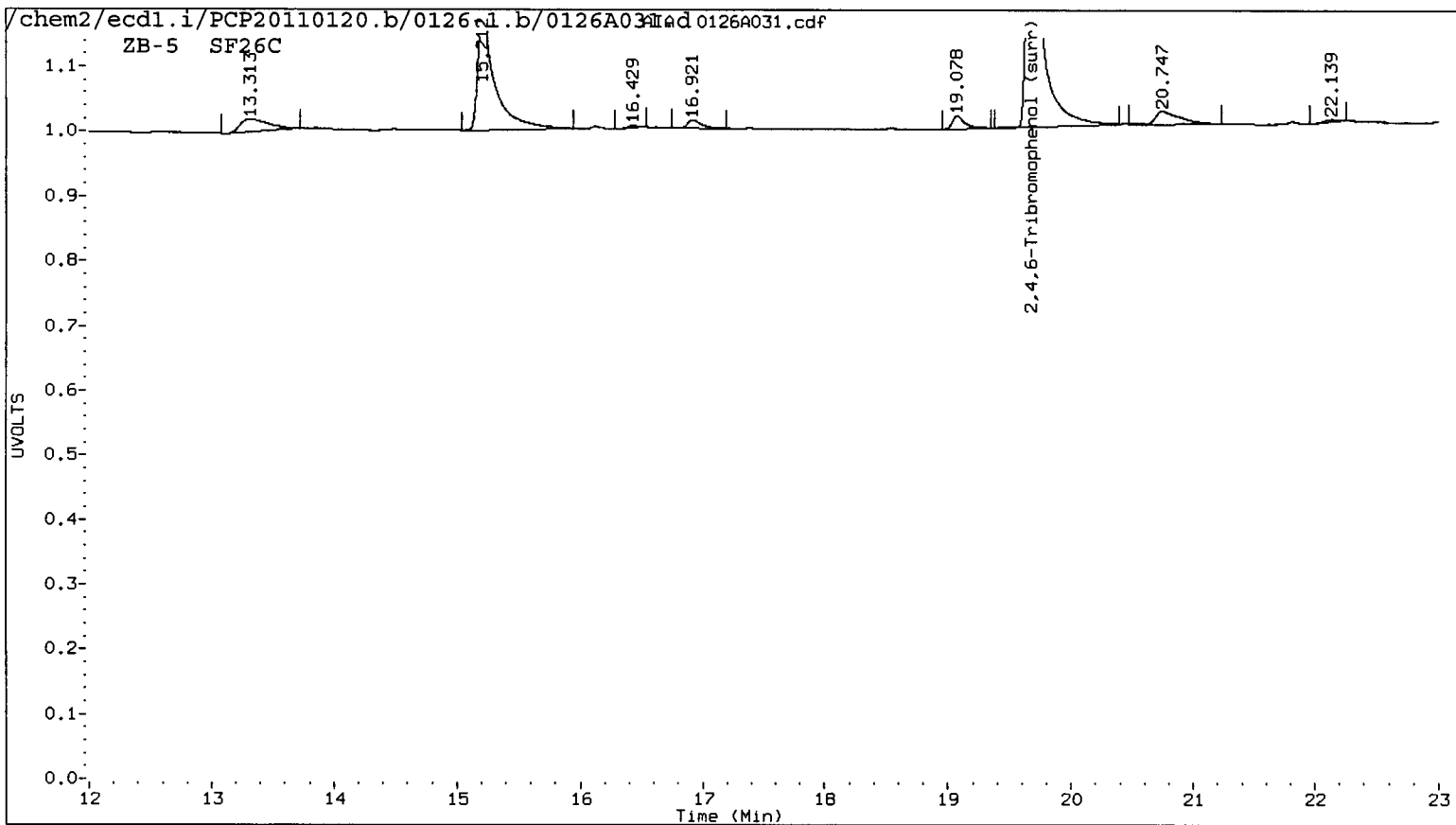
AR 1/27/2011

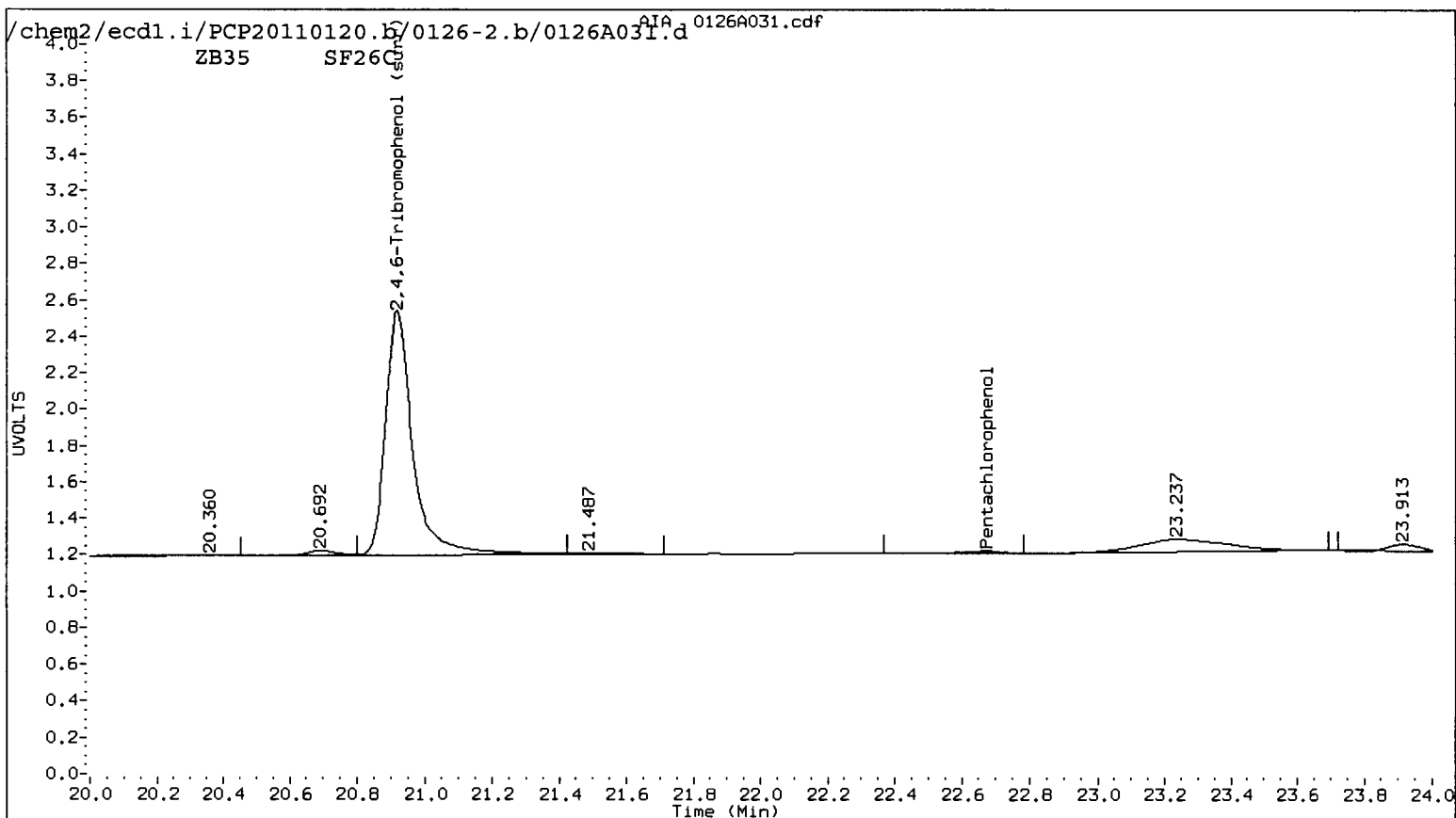
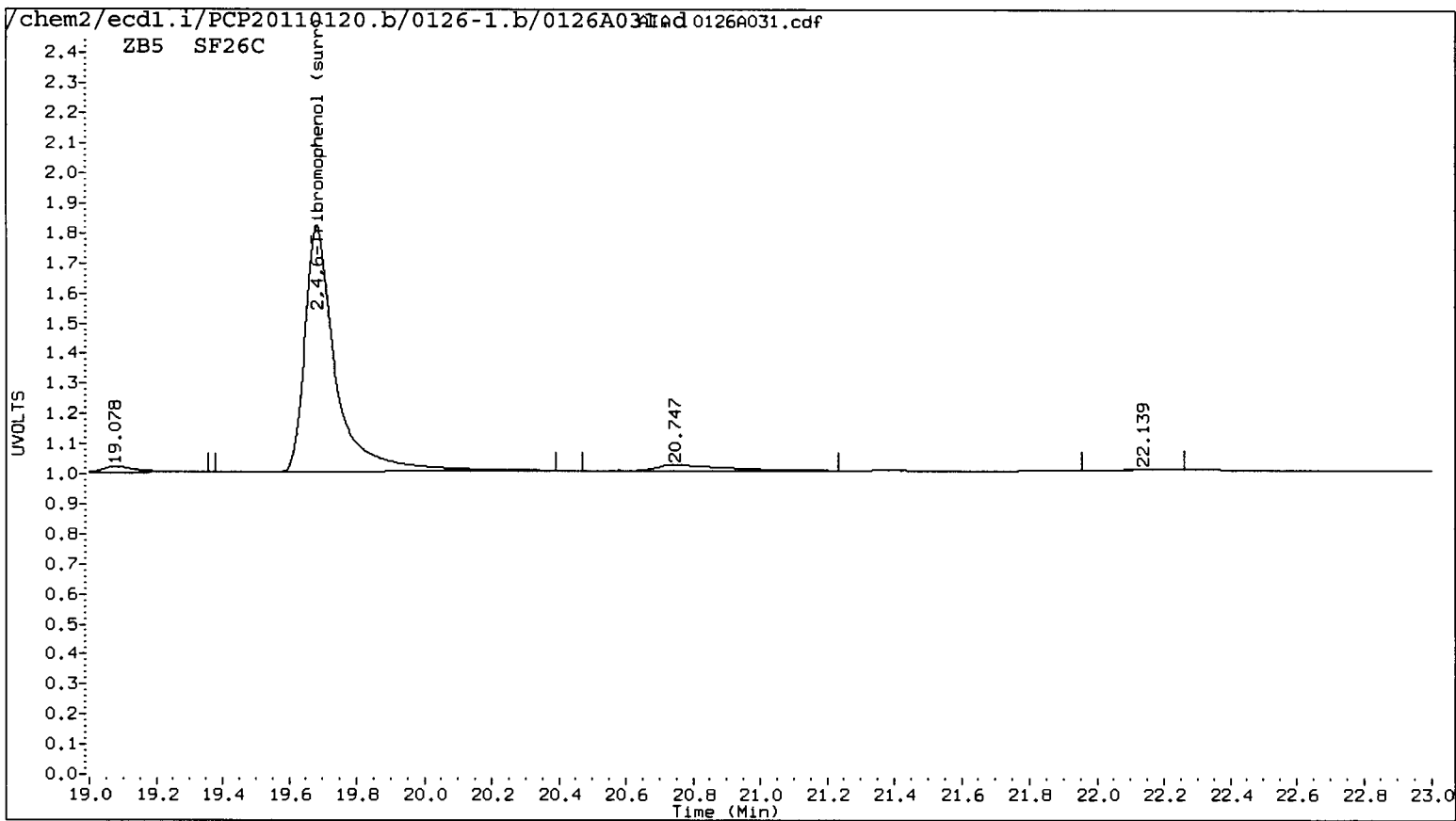
Data file 1: /chem2/ecdl.i/PCP20110120.b/0126-1.b/0126A031.d ARI ID: SF26C
 Data file 2: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A031.d Client ID: MW07-011911
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 27-JAN-2011 01:17
 Compound Sublist: all Report Date: 01/27/2011 12:43
 Instrument: ecd1.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		
----		22.674	0.013 3558	0.0000	0.1357 ^{uR}	---	Pentachlorophenol
----		----		0.0000	0.0000	---	2,4,6-Trichlorophenol
----		----		0.0000	0.0000	---	2,3,6-Trichlorophenol
----		----		0.0000	0.0000	---	2,4,5-Trichlorophenol
----		----		0.0000	0.0000	---	2,3,4-Trichlorophenol
----		----		0.0000	0.0000	---	2,3,5,6-Tetrachlorophenol
----		----		0.0000	0.0000	---	2,3,4,5-Tetrachlorophenol
----		----		0.0000	0.0000	---	2,4-Dichlorophenol
19.683	0.023 267304	20.919	0.016 375690	20.0	18.8	6.2	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

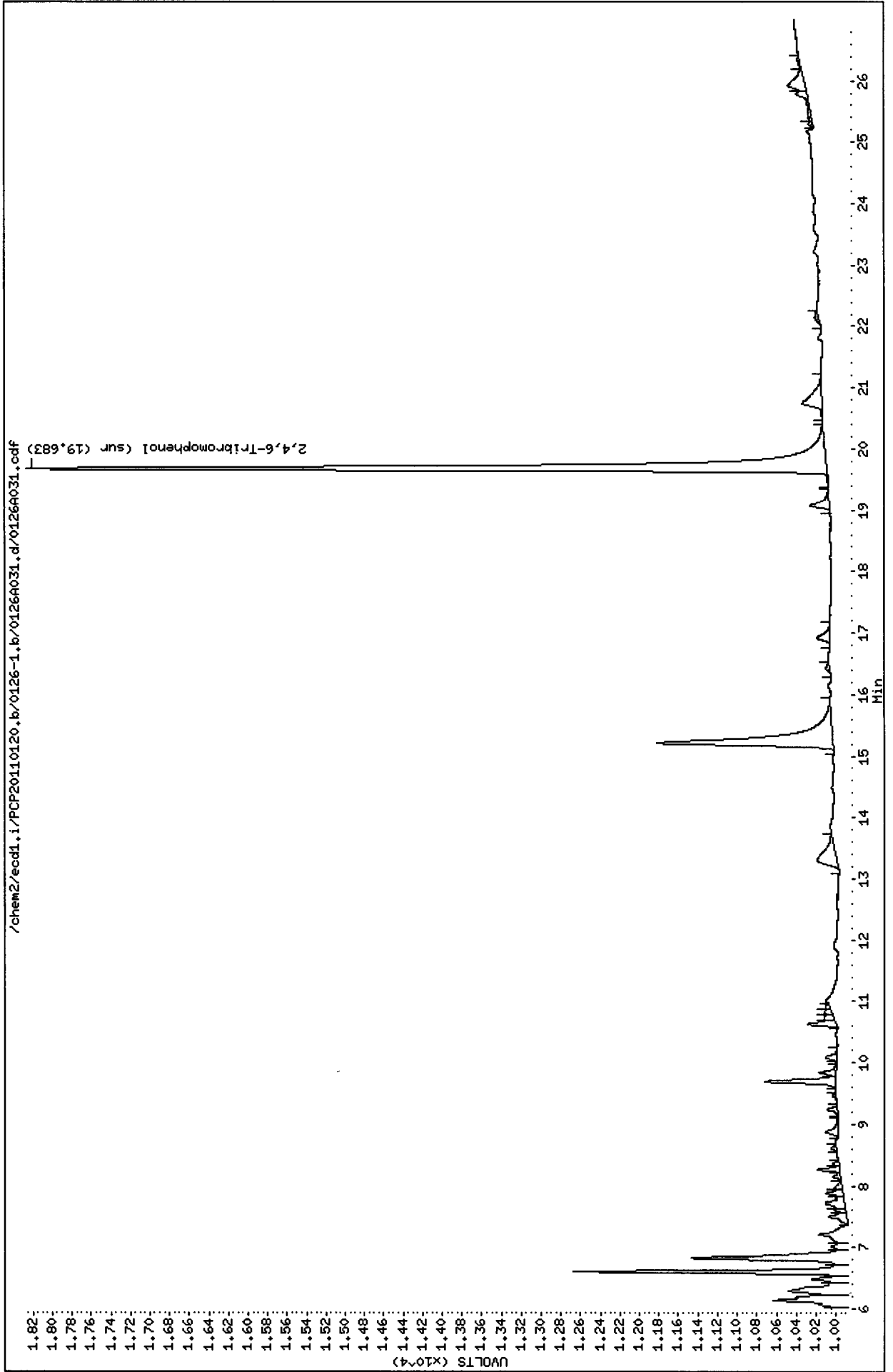
COMPOUND	Col1	Col2
2,4,6-TBP (surr)	79.9	75.1





Data File: /chem2/ecd1.i/PCP20110120.b/0126-1.b/0126A031.d
Date : 27-JAN-2011 01:17
Client ID: MM07-011911
Sample Info: SF26C
Purge Volume: 2.0
Column phase: ZB5

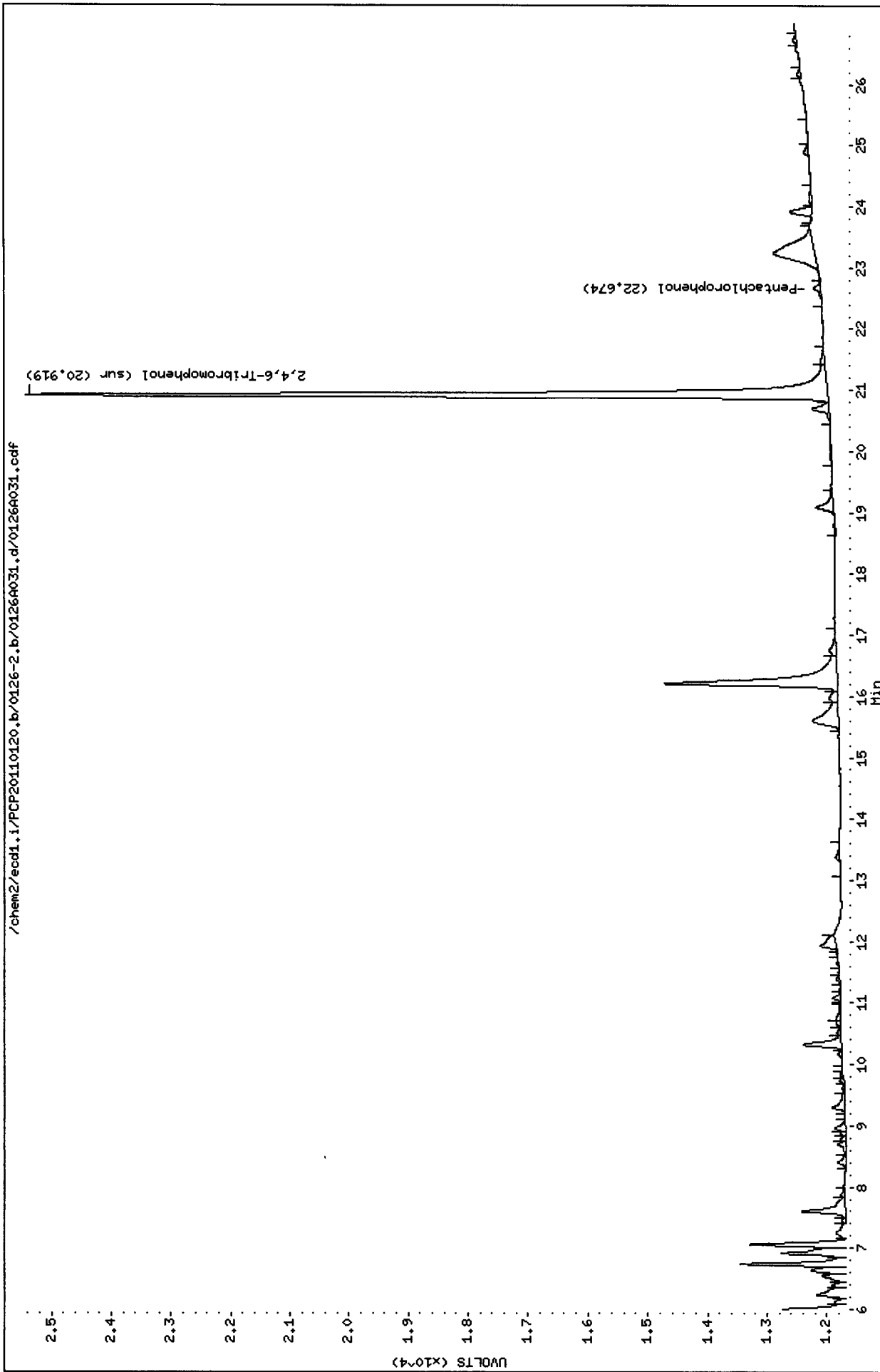
Instrument: ecd1.i
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecdl1.i/PCP20110120.b/0126-2.b/0126A031.d
Date : 27-JAN-2011 01:17
Client ID: MM07-011911
Sample Info: SF26C
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecdl1.i

Operator: ar
Column diameter: 0.53



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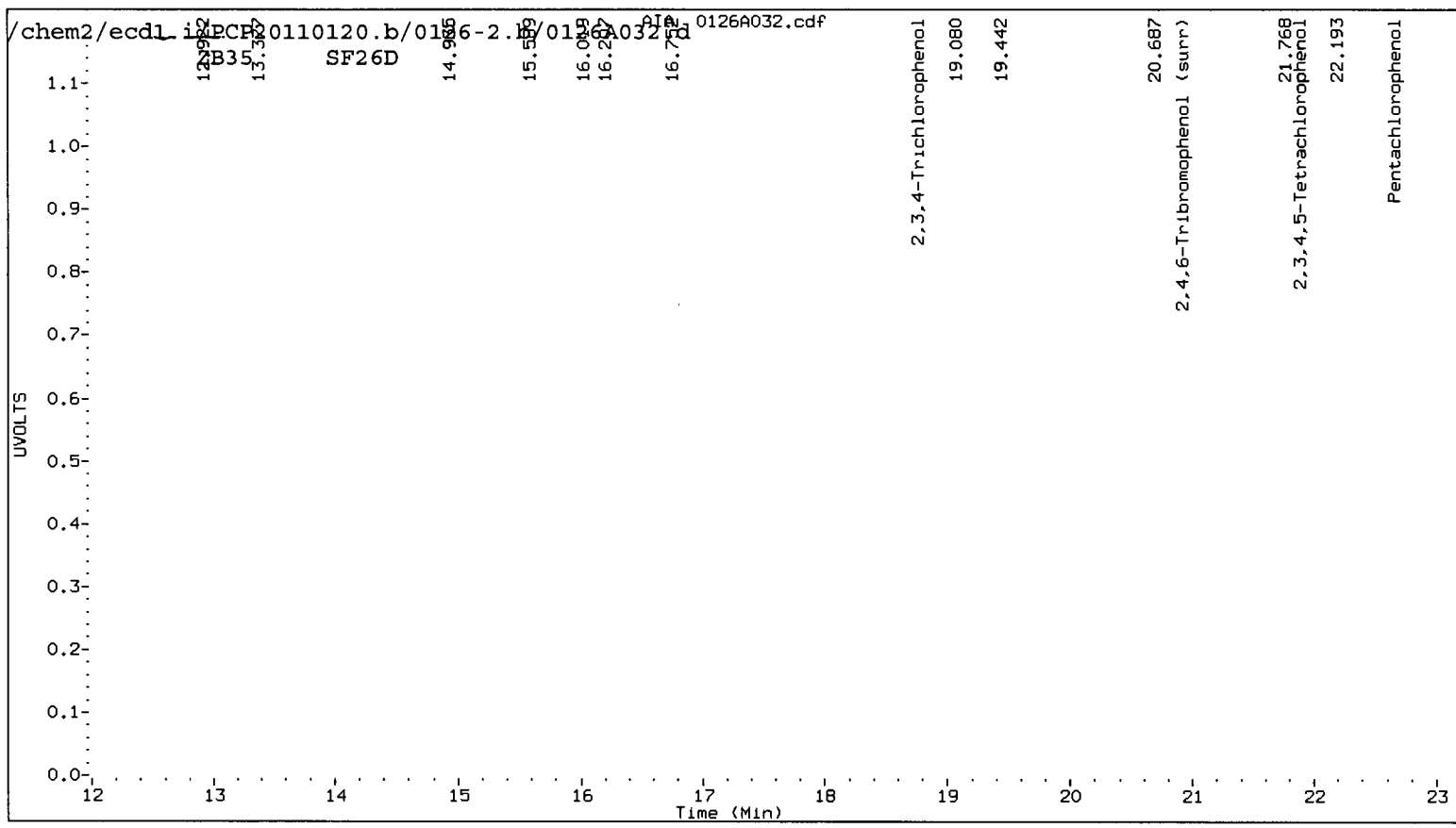
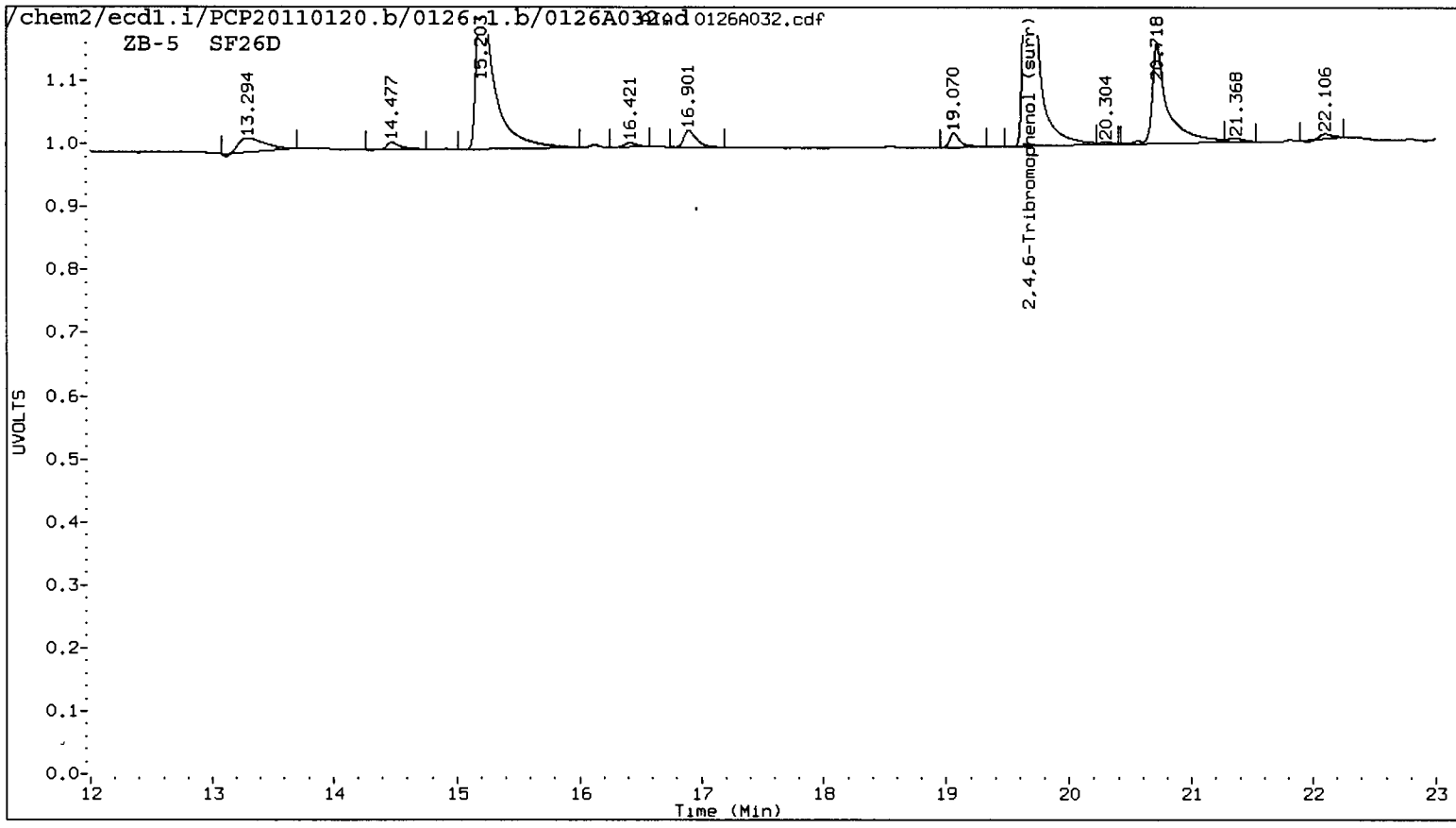
AR 1/27/2011

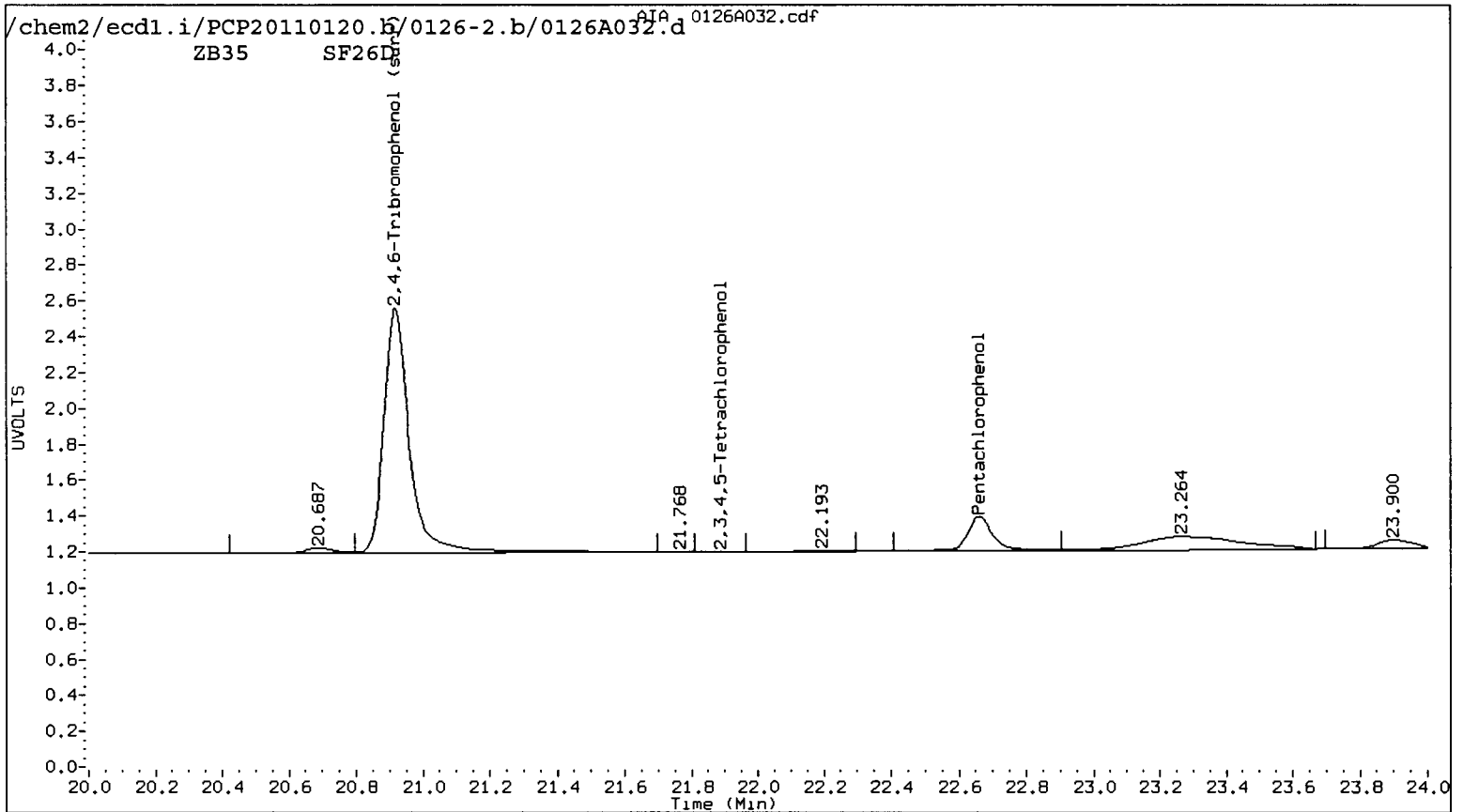
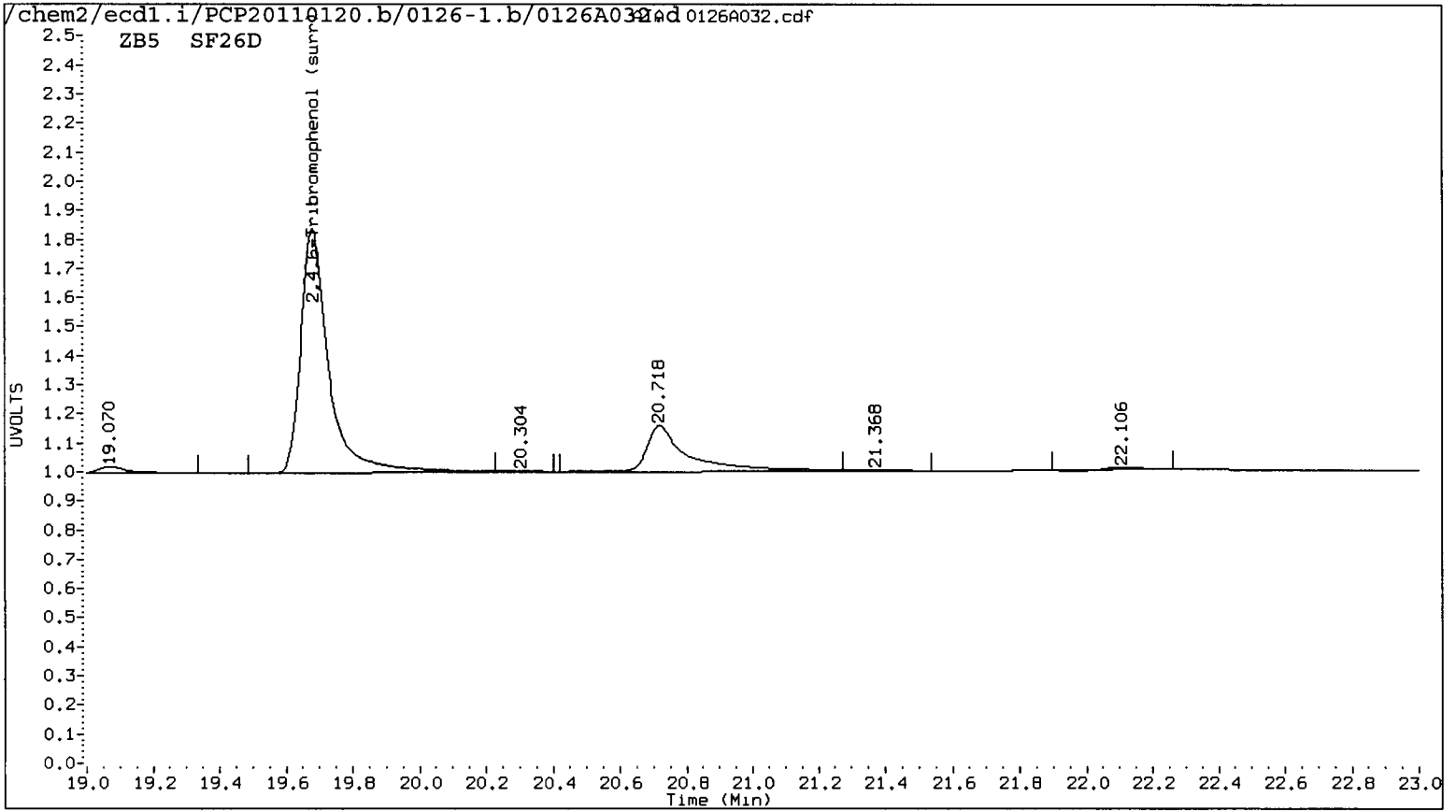
Data file 1: /chem2/ecdl.i/PCP20110120.b/0126-1.b/0126A032.d ARI ID: SF26D
 Data file 2: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A032.d Client ID: MW14-011911
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 27-JAN-2011 01:53
 Compound Sublist: all Report Date: 01/27/2011 12:43
 Instrument: ecd1.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		
----		22.660	-0.001 50572	0.0000	1.9287 <i>UP</i>	---	Pentachlorophenol
----		----		0.0000	0.0000	---	2,4,6-Trichlorophenol
----		----		0.0000	0.0000	---	2,3,6-Trichlorophenol
----		----		0.0000	0.0000	---	2,4,5-Trichlorophenol
----		18.772	0.017 827	0.0000	0.0898	---	2,3,4-Trichlorophenol
----		----		0.0000	0.0000	---	2,3,5,6-Tetrachlorophenol
----		21.890	0.044 863	0.0000	0.0538	---	2,3,4,5-Tetrachlorophenol
----		----		0.0000	0.0000	---	2,4-Dichlorophenol
19.679	0.019 <i>✓</i> 245563	20.917	0.015 <i>✓</i> 367898	19.1	18.4 <i>✓</i>	3.6	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

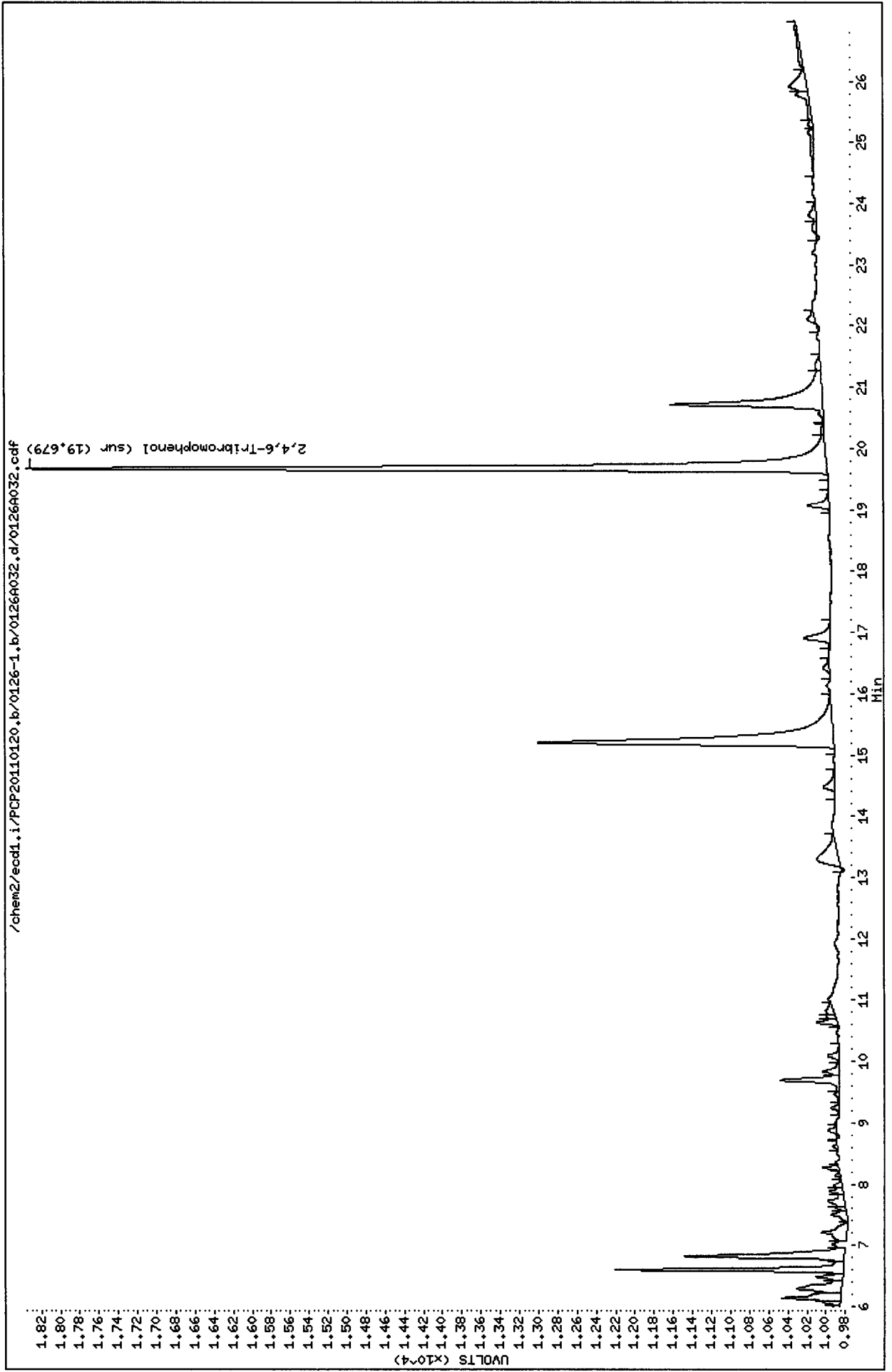
COMPOUND	Col1	Col2
2,4,6-TBP (surr)	76.2	73.5 <i>✓</i>





Data File: /chem2/ecdl.i/PCP20110120.b/0126-1.b/0126A032.d
Date: 27-JAN-2011 01:53
Client ID: MM14-011911
Sample Info: SF26D
Purge Volume: 2.0
Column phase: ZB5

Instrument: ecd1.i
Operator: ar
Column diameter: 0.53

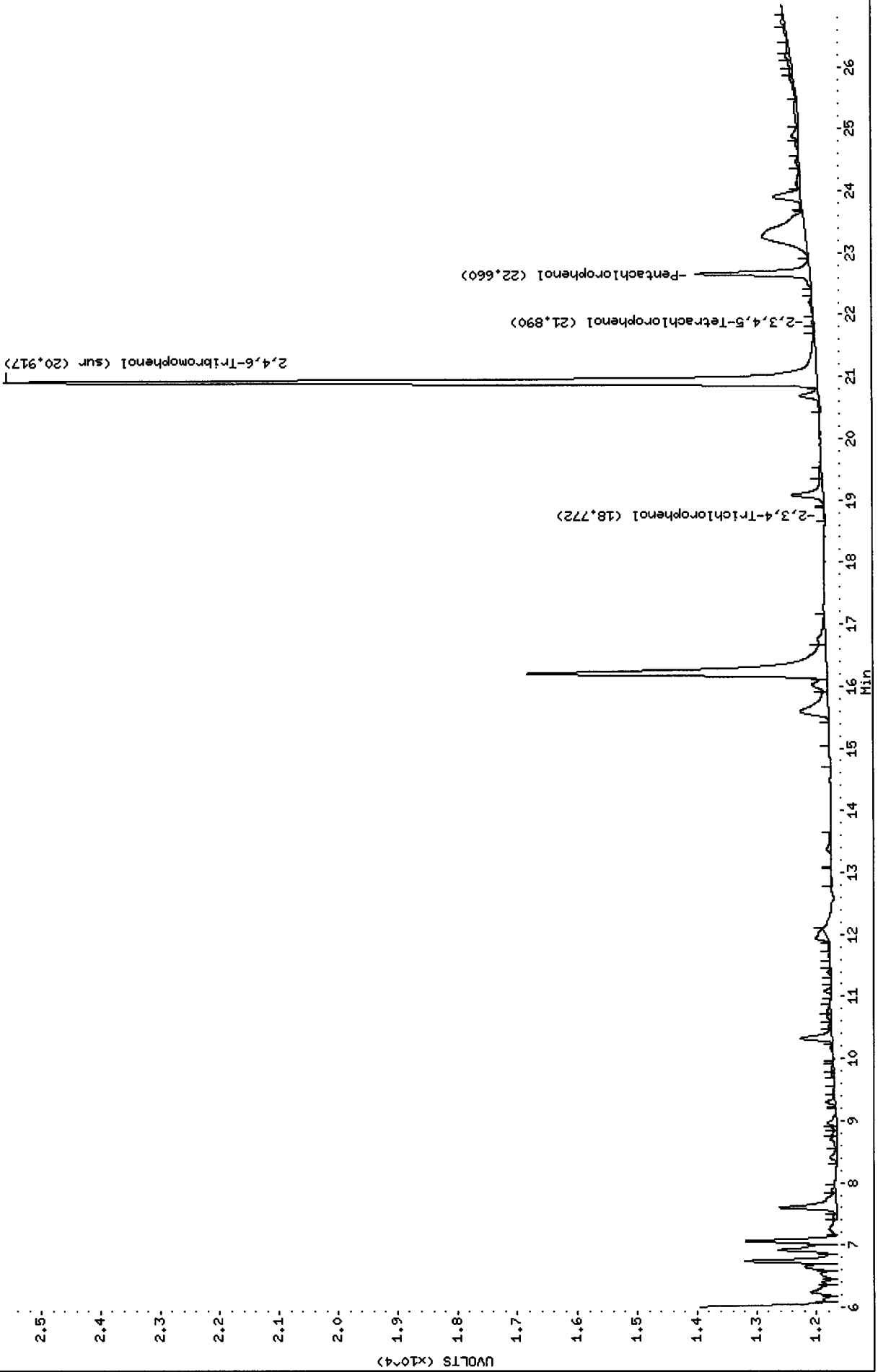


Data File: /chem2/ecdl1.i/PCP20110120.b/0126-2.b/01264032.d
Date : 27-JAN-2011 01:53
Client ID: MM14-011911
Sample Info: SF26D
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecd1.i

Operator: ar
Column diameter: 0.53

/chem2/ecdl1.i/PCP20110120.b/0126-2.b/01264032.d/01264032.cdf



Analytical Resources Inc.
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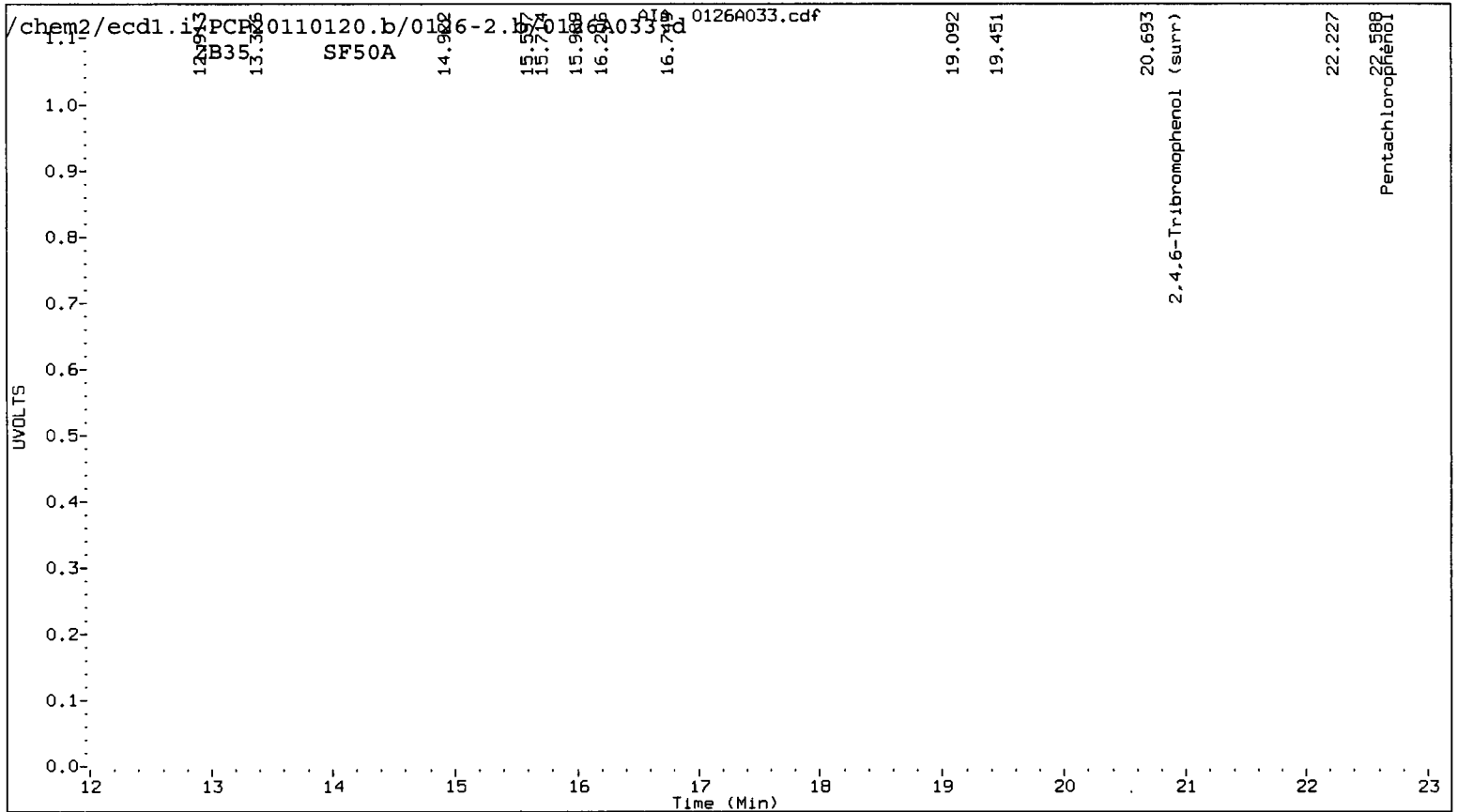
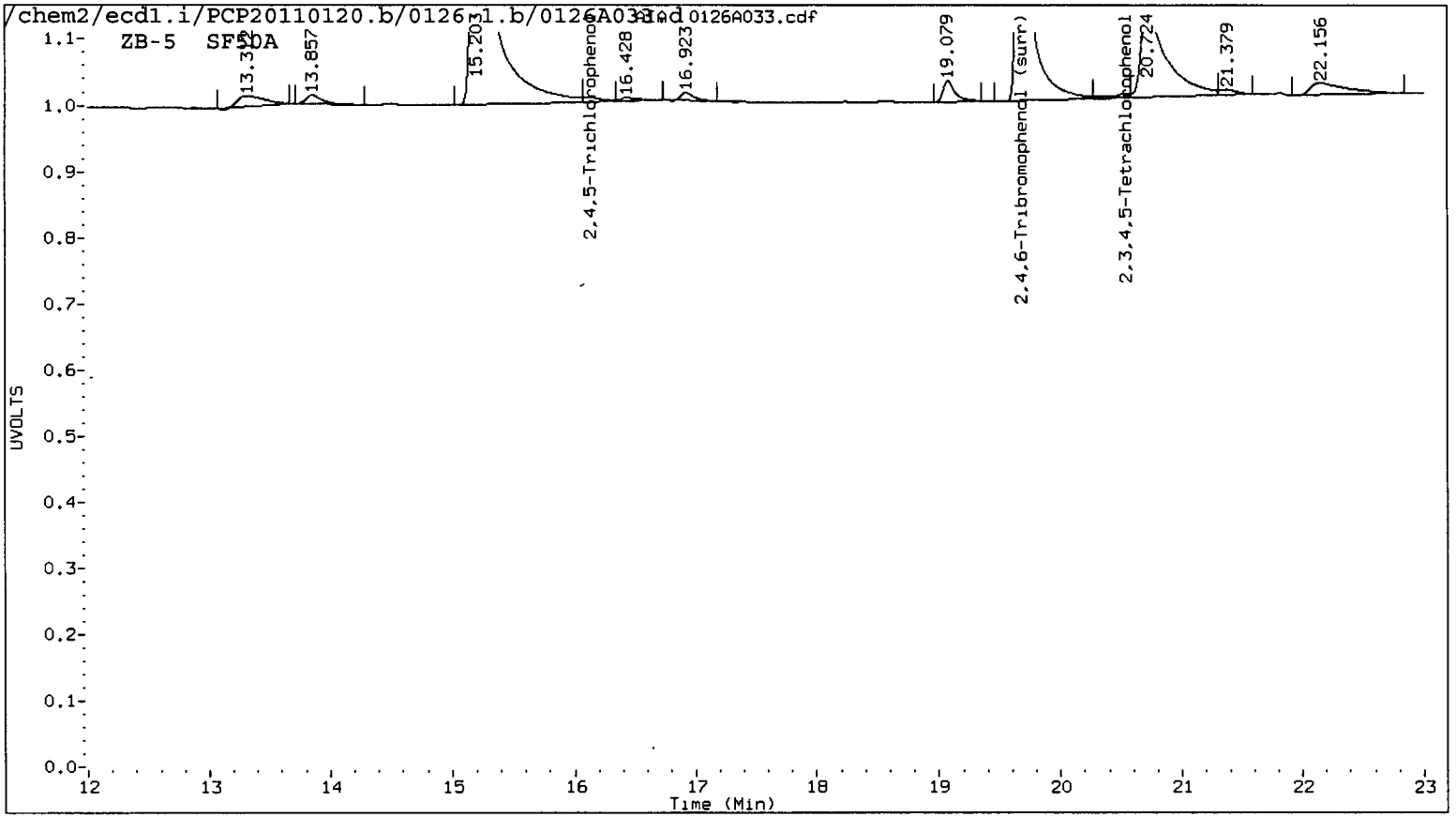
AR 1/27/2011

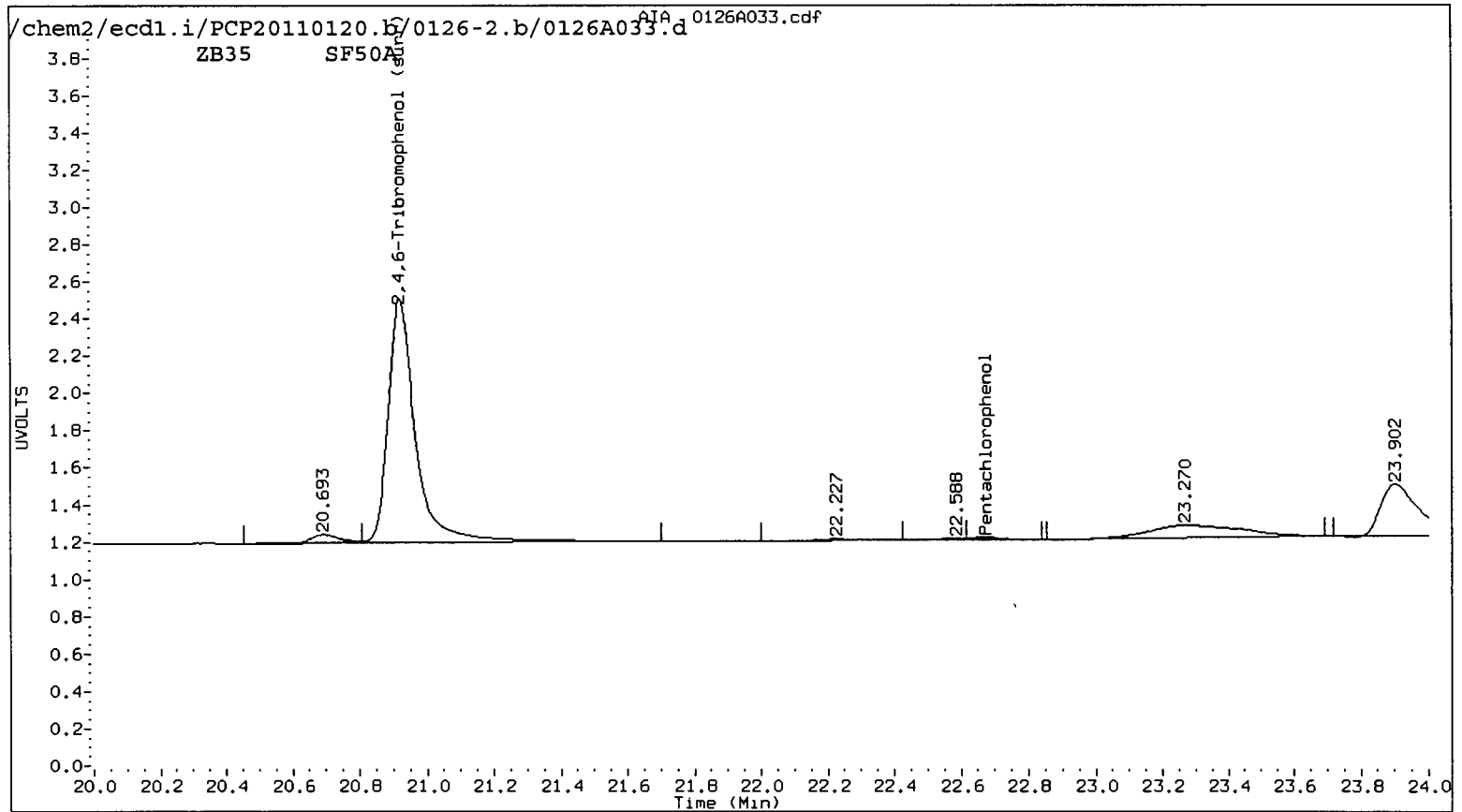
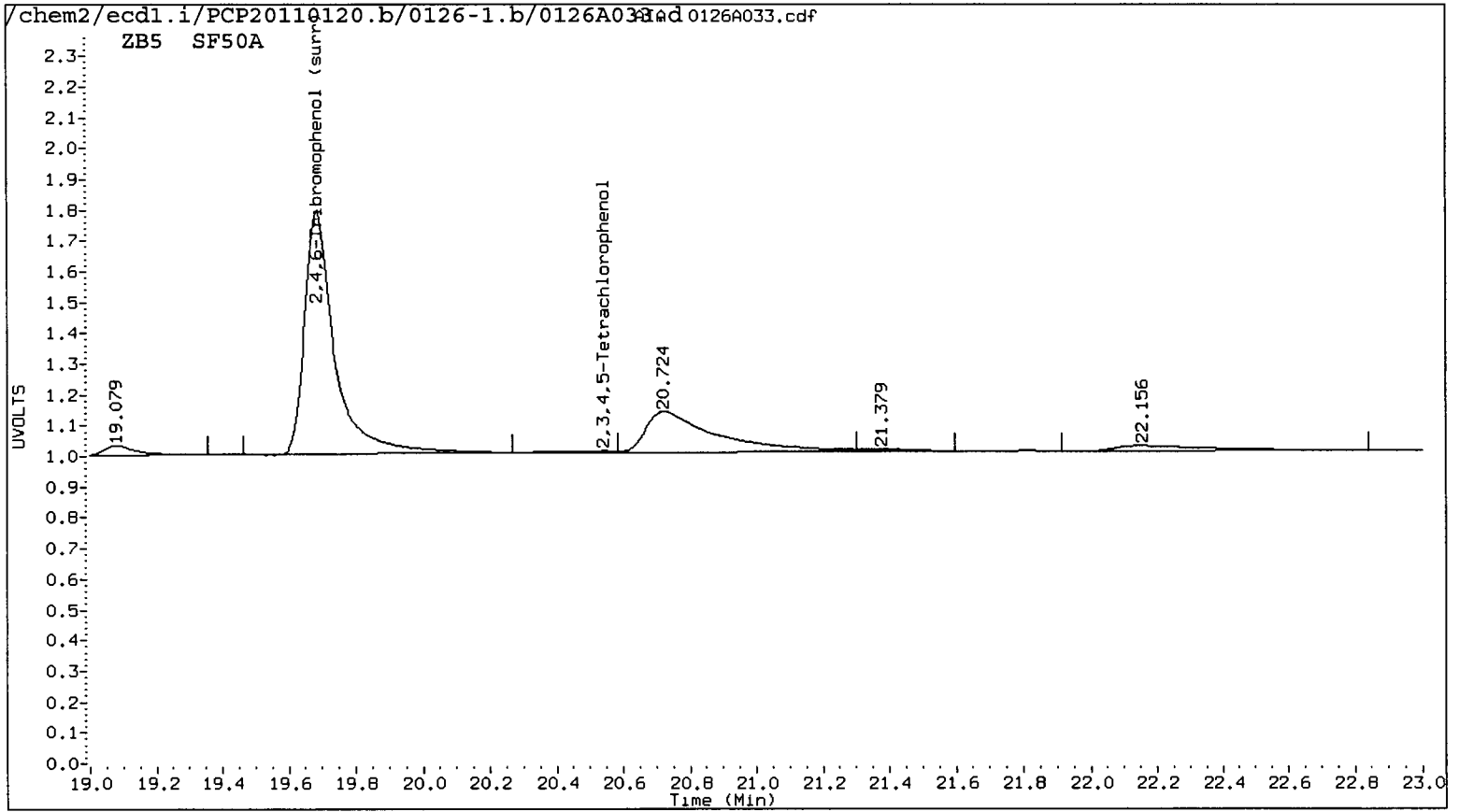
Data file 1: /chem2/ecdl.i/PCP20110120.b/0126-1.b/0126A033.d ARI ID: SF50A
 Data file 2: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A033.d Client ID: MW13-012011
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 27-JAN-2011 02:29
 Compound Sublist: all Report Date: 01/27/2011 12:43
 Instrument: ecd1.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		
----			22.673	0.012	4293	0.0000	0.1637 ^{LR}	---	Pentachlorophenol
----			----			0.0000	0.0000	---	2,4,6-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,6-Trichlorophenol
16.129	0.019	3646	----			0.7711	0.0000	---	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,5,6-Tetrachlorophenol
20.544	-0.004	3828	----			0.3611	0.0000	---	2,3,4,5-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,4-Dichlorophenol
19.685	0.025	250693	20.921	0.018	369428	19.5	18.5	5.3	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	77.8	73.8

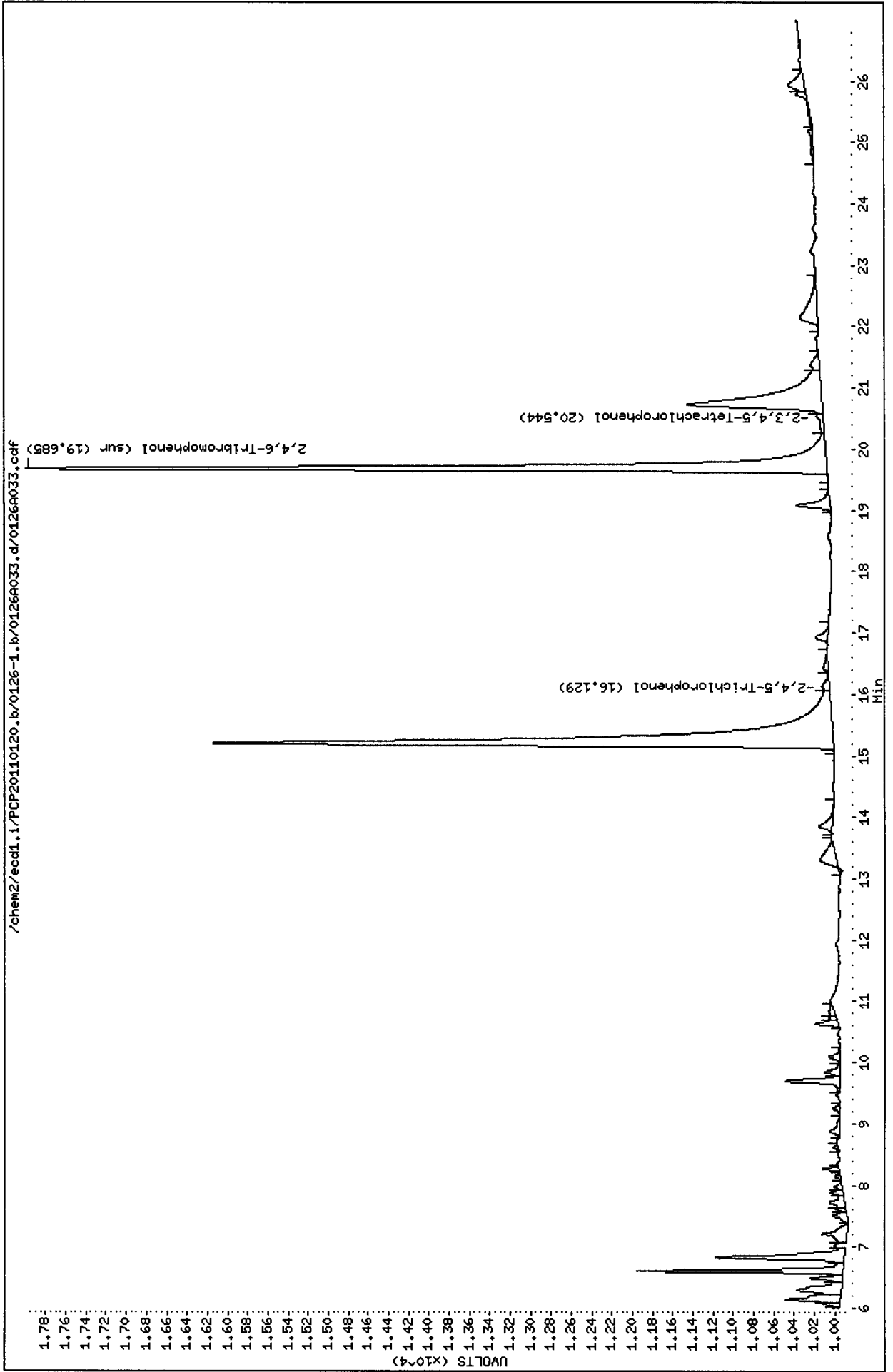




Data File: /chem2/ecdl1.i/PCP20110120.b/0126-1.b/0126A033.d
Date : 27-JAN-2011 02:29
Client ID: MM13-012011
Sample Info: SF50A
Purge Volume: 2.0
Column phase: ZB5

Instrument: ecdl1.i

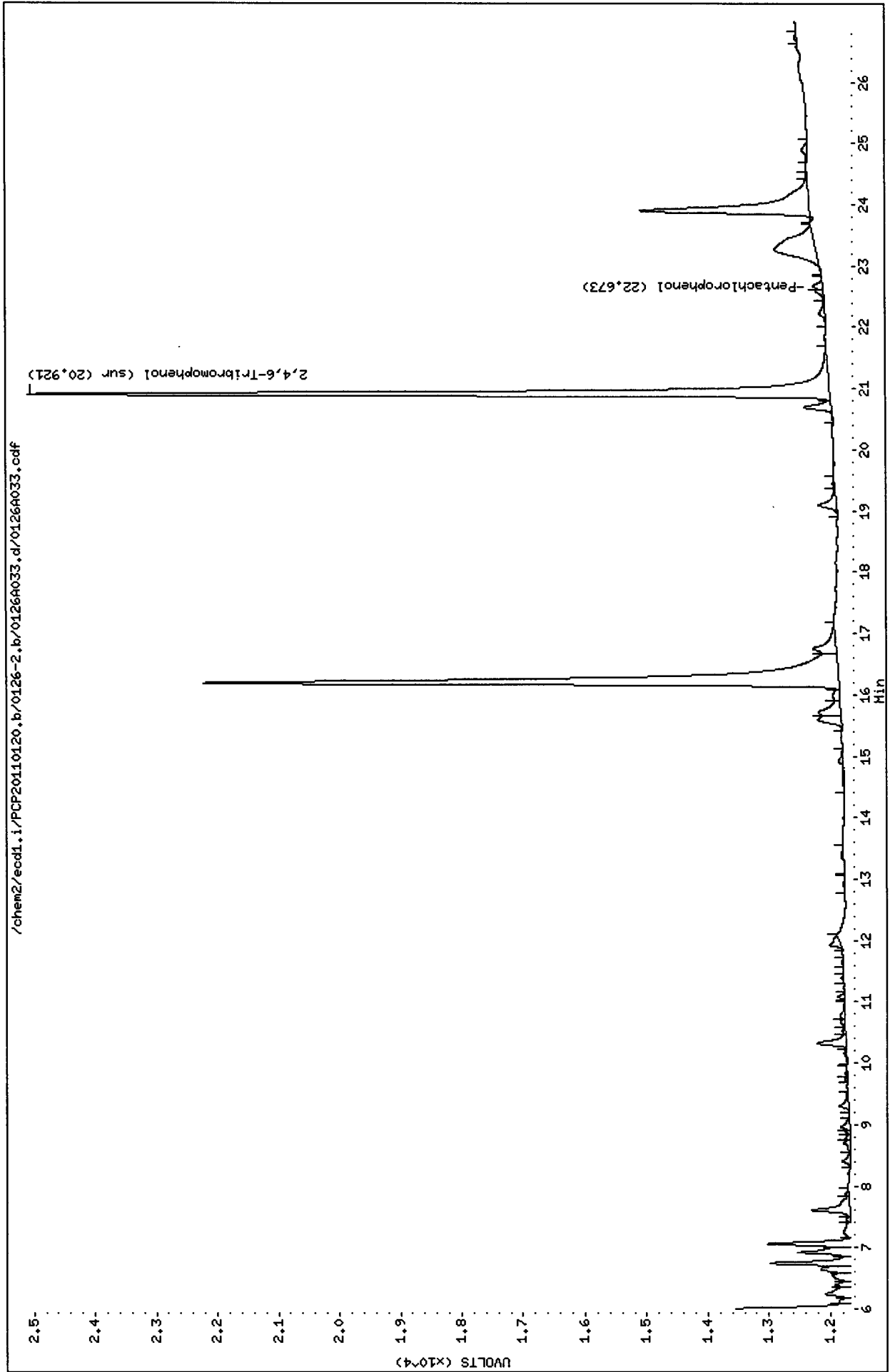
Operator: ar
Column diameter: 0.53



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Date : 27-JAN-2011 02:29
Client ID: MW13-012011
Sample Info: SF50A
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecd1.i

Operator: ar
Column diameter: 0.53



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

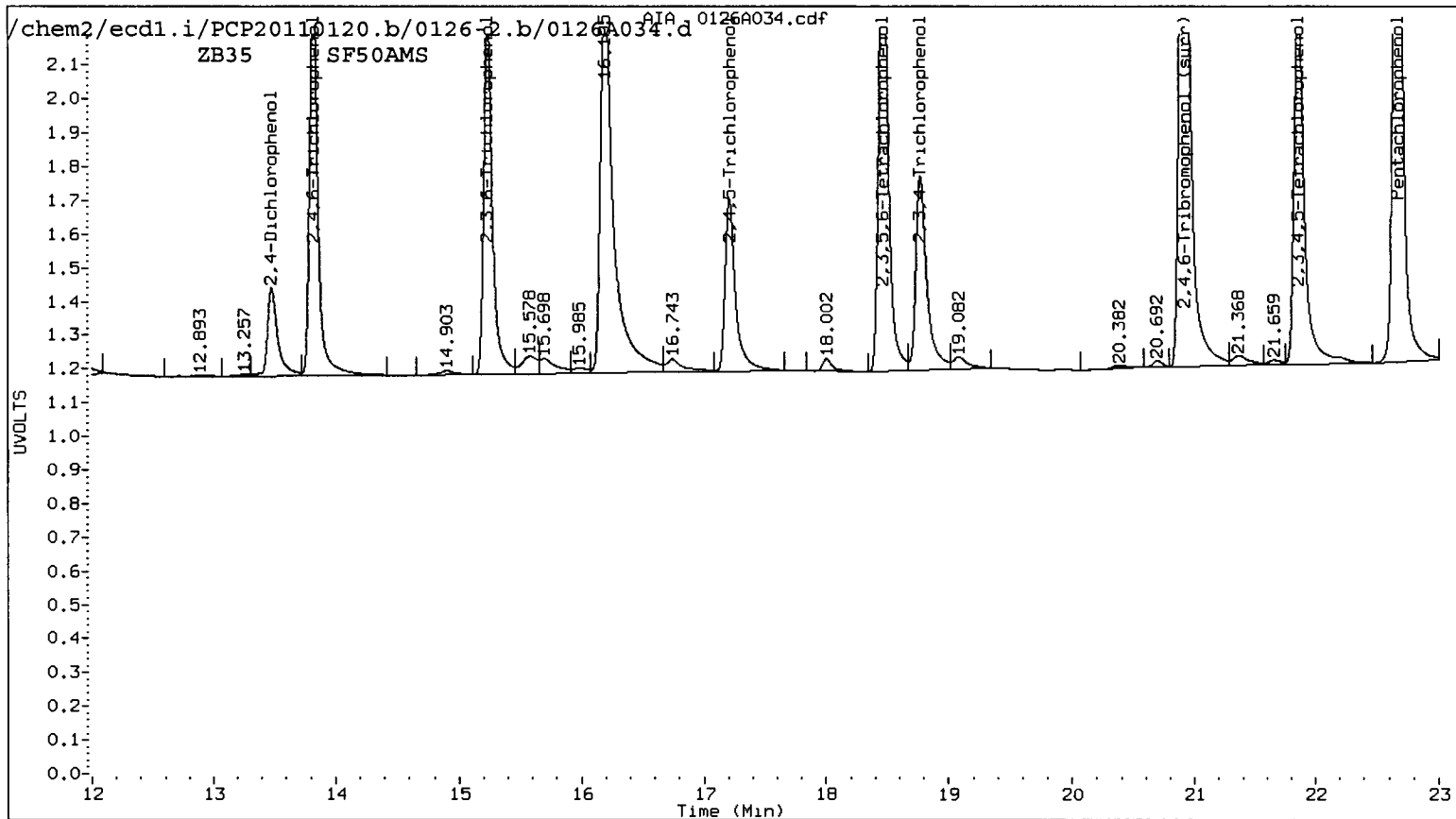
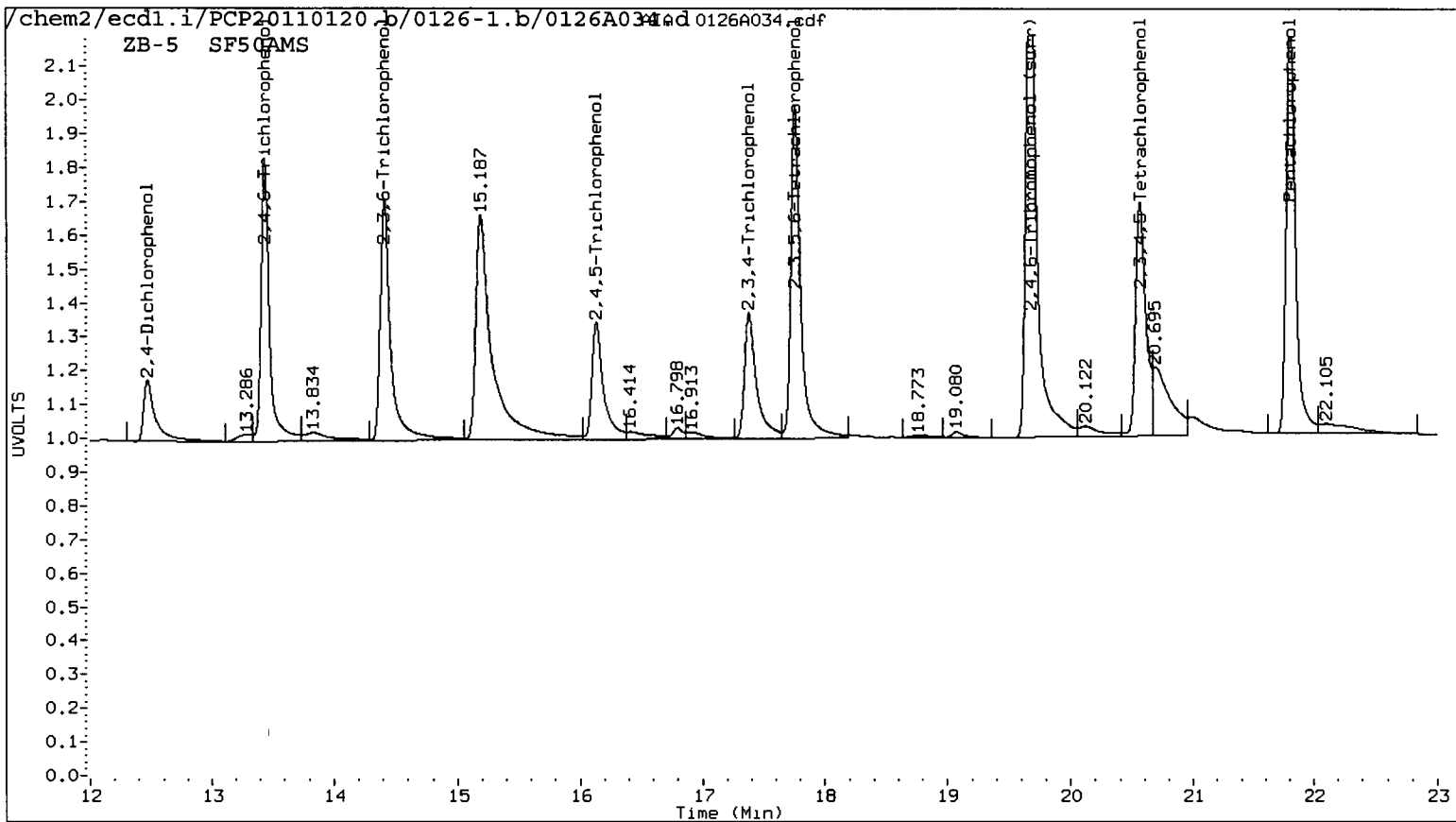
AR 1/27/2011

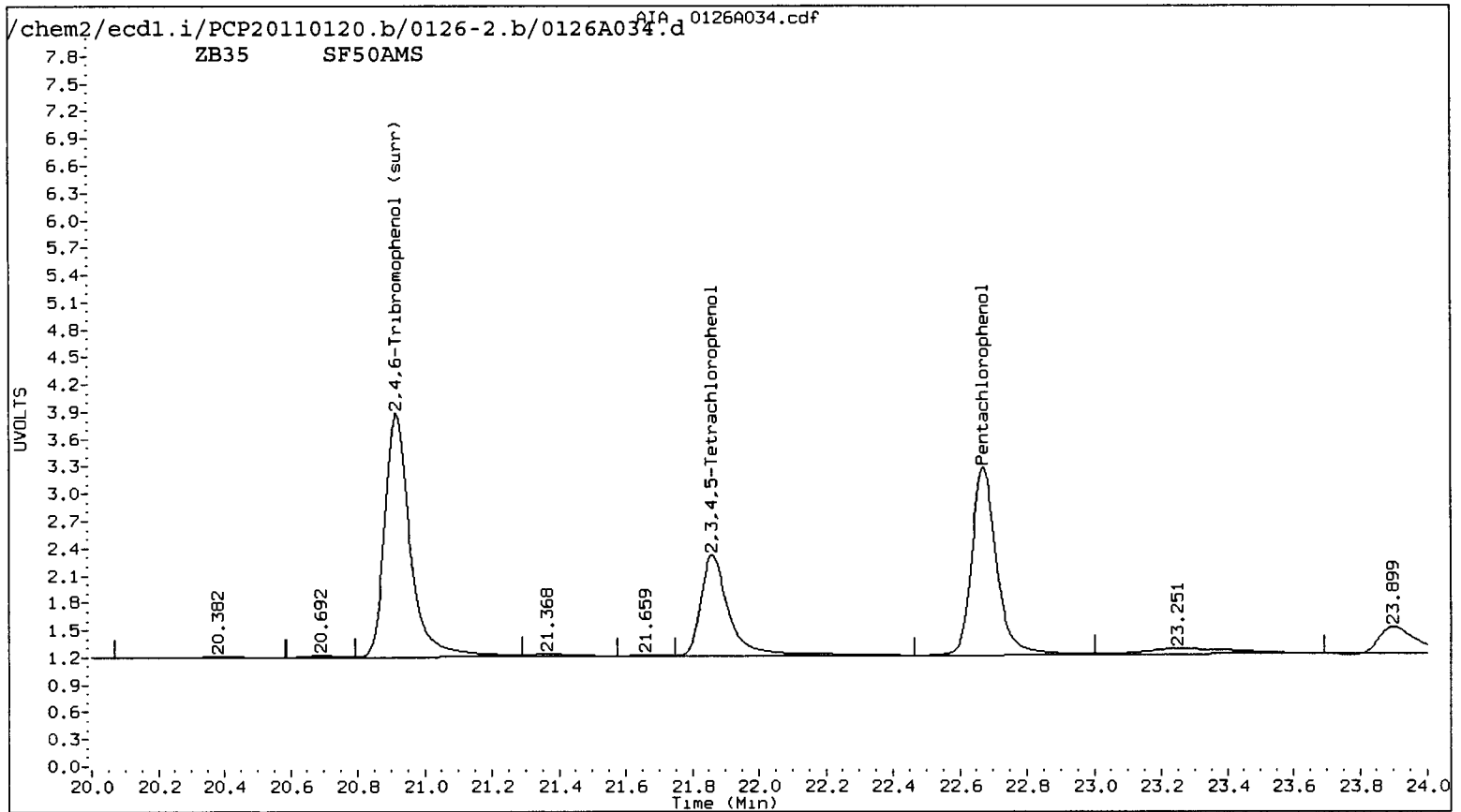
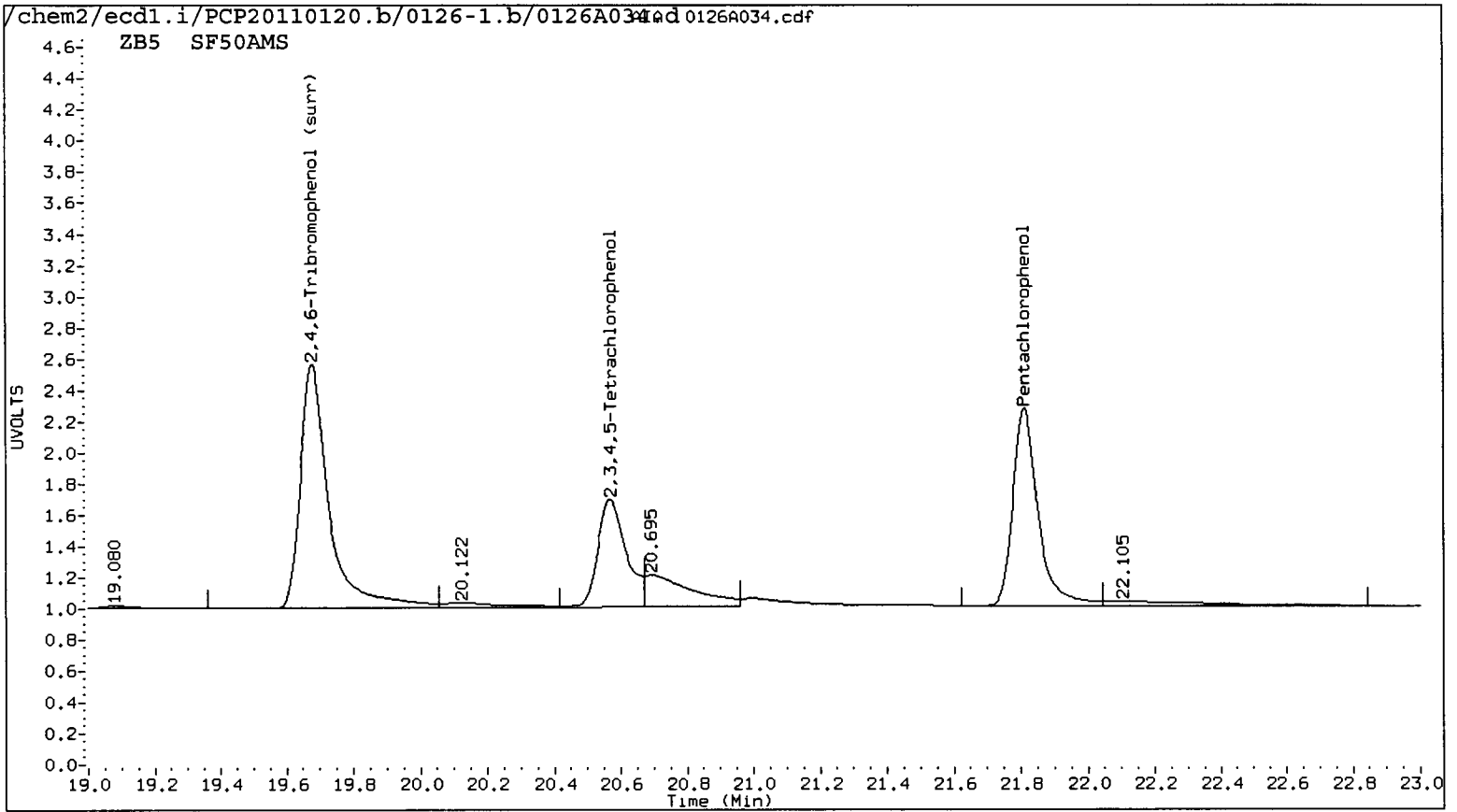
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 Data file 2: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A034.d Client ID: MW13-012011 MS
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 27-JAN-2011 03:06
 Compound Sublist: all Report Date: 01/27/2011 12:43
 Instrument: ecd1.i Matrix: WATER
 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		
21.811	0.013	330292	22.671	0.010	533627	20.3601	20.3515	0.0	Pentachlorophenol
13.437	0.007	201796	13.823	0.006	280870	21.0297	19.0153	10.1	2,4,6-Trichlorophenol
14.411	0.013	211884	15.234	0.011	268938	23.2769	19.5942	17.2	2,3,6-Trichlorophenol
16.135	0.024	115690	17.210	0.018	153888	24.4621	19.1055	24.6	2,4,5-Trichlorophenol
17.381	0.025	128542	18.772	0.017	178758	20.2756	19.4070	4.4	2,3,4-Trichlorophenol
17.758	0.017	277845	18.464	0.013	392225	19.9200	18.5928	6.9	2,3,5,6-Tetrachlorophenol
20.568	0.020	207087	21.861	0.015	327595	19.5359	20.4167	4.4	2,3,4,5-Tetrachlorophenol
12.467	0.014	63177	13.481	0.013	79369	109.5175	89.2535	20.4	2,4-Dichlorophenol
19.678	0.018	466220	20.916	0.013	710422	36.2	35.5	1.9	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	81.4	81.4
2,4,6-Trichlorophenol	84.1	76.1
2,3,6-Trichlorophenol	93.1	78.4
2,4,5-Trichlorophenol	97.8	76.4
2,3,4-Trichlorophenol	81.1	77.6
2,3,5,6-Tetrachlorophenol	79.7	74.4
2,3,4,5-Tetrachlorophenol	78.1	81.7
2,4-Dichlorophenol	43.8	35.7
2,4,6-TBP (surr)	72.3	71.0

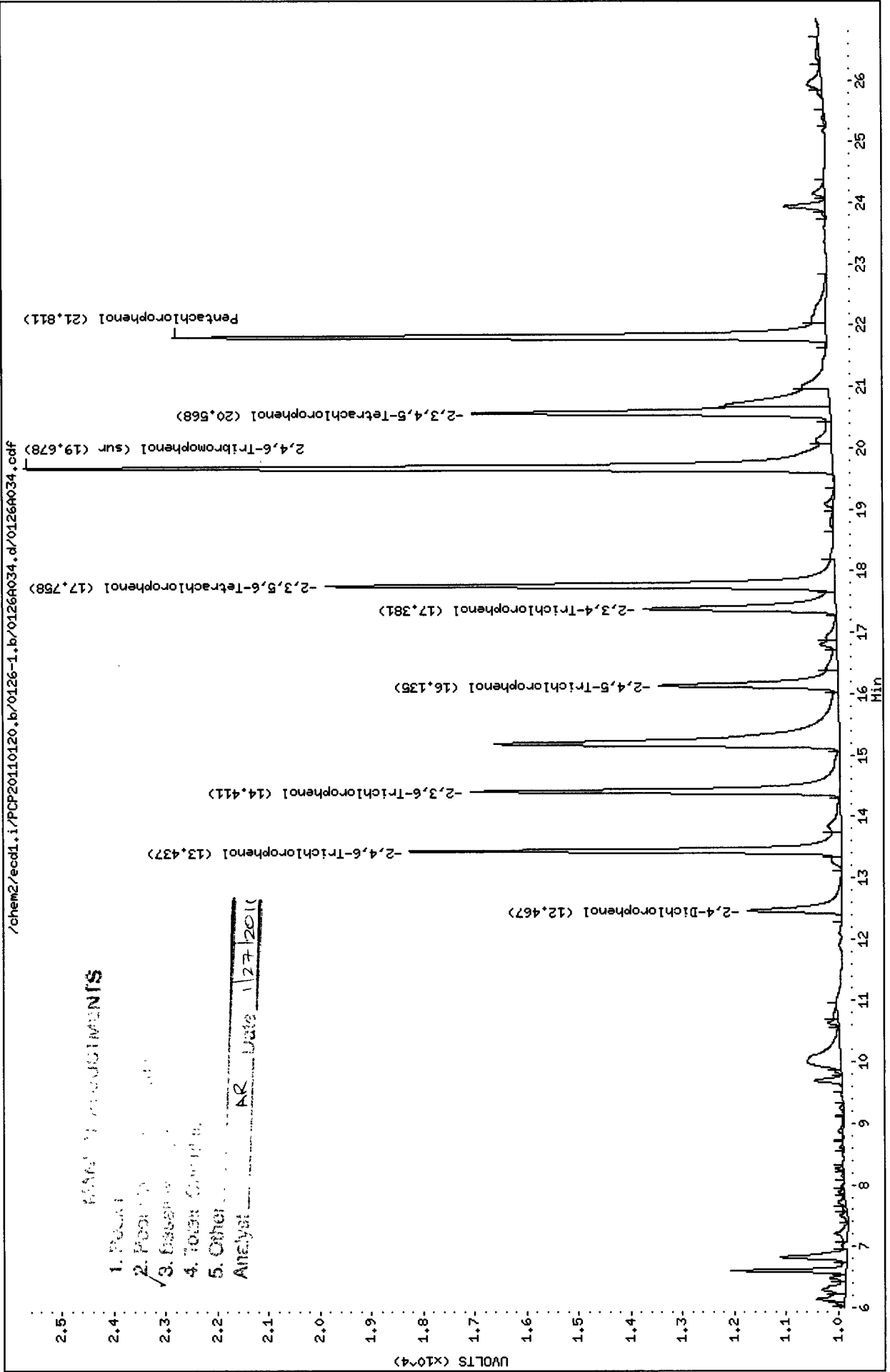




Data File: /chem2/ecd1.i/PCP20110120.b/0126-1.b/0126A034.d
Date : 27-JAN-2011 03:06
Client ID: HM13-012011 MS
Sample Info: SFS0AHS
Purge Volume: 2.0
Column phase: ZB5

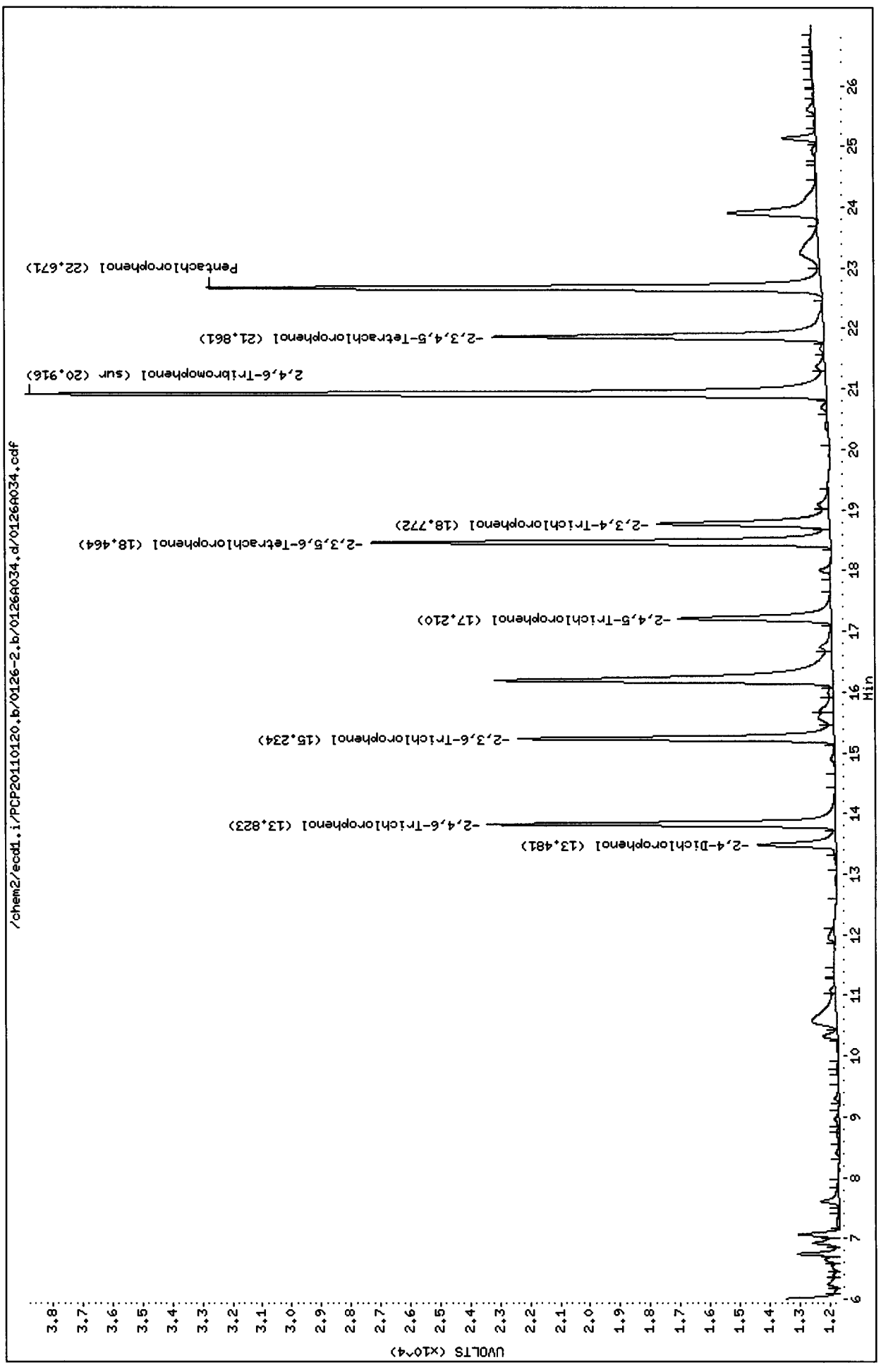
Instrument: ecd1.i

Operator: ar
Column diameter: 0.53



Data File: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A034.d
Date: 27-JAN-2011 03:06
Client ID: MW13-012011 MS
Sample Info: SF50AMS
Purge Volume: 2.0
Column phase: ZB35

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



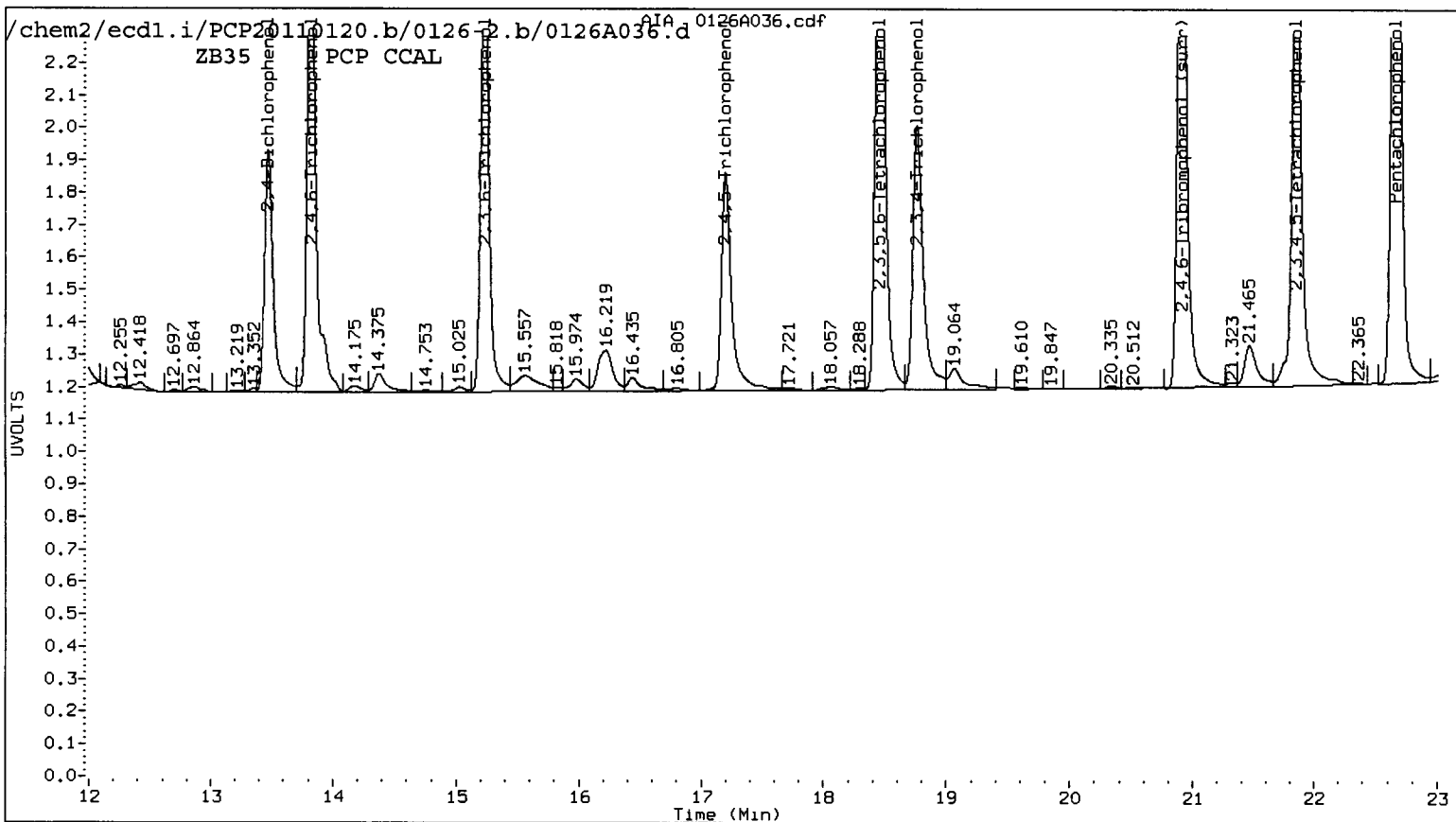
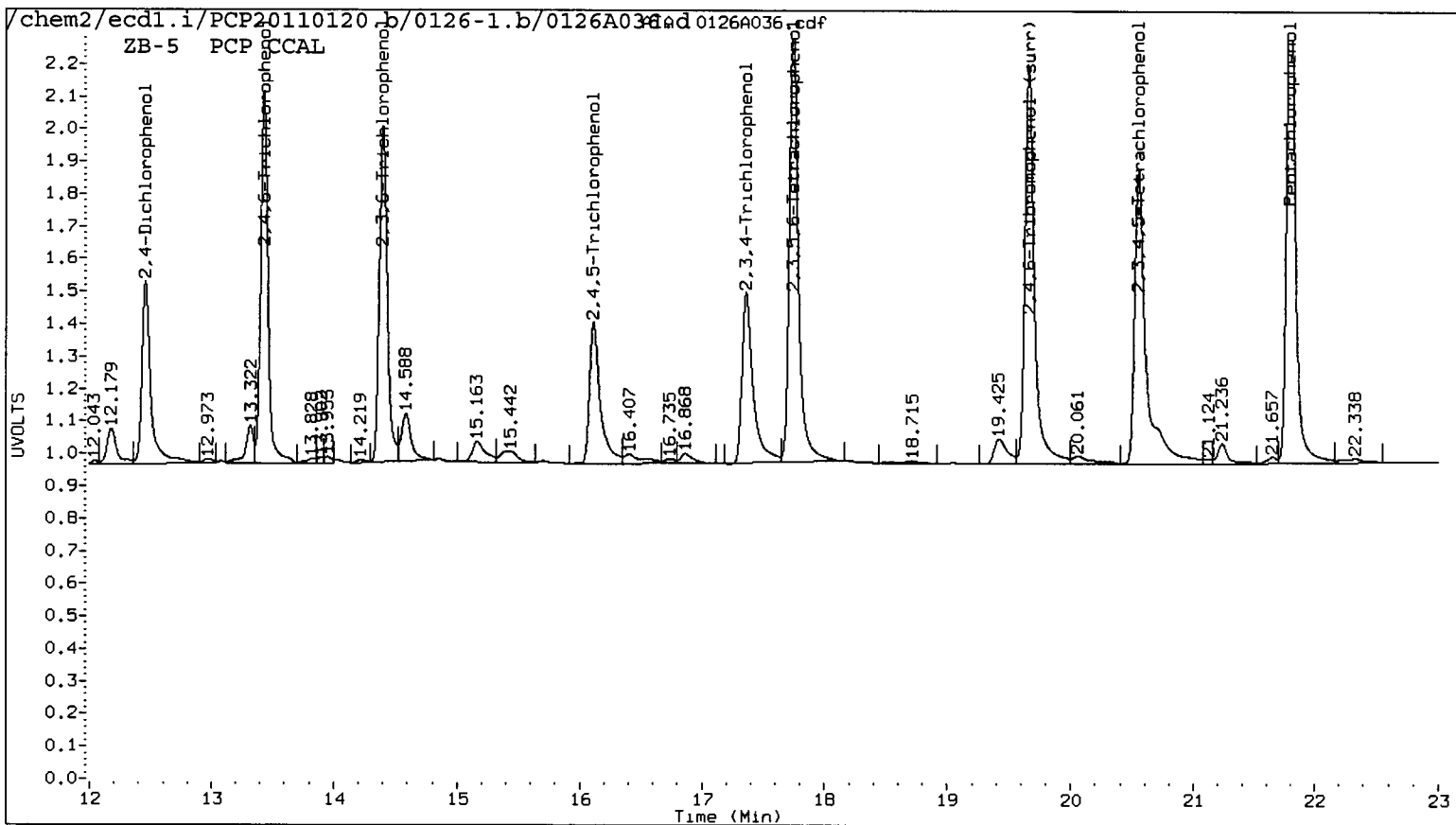
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

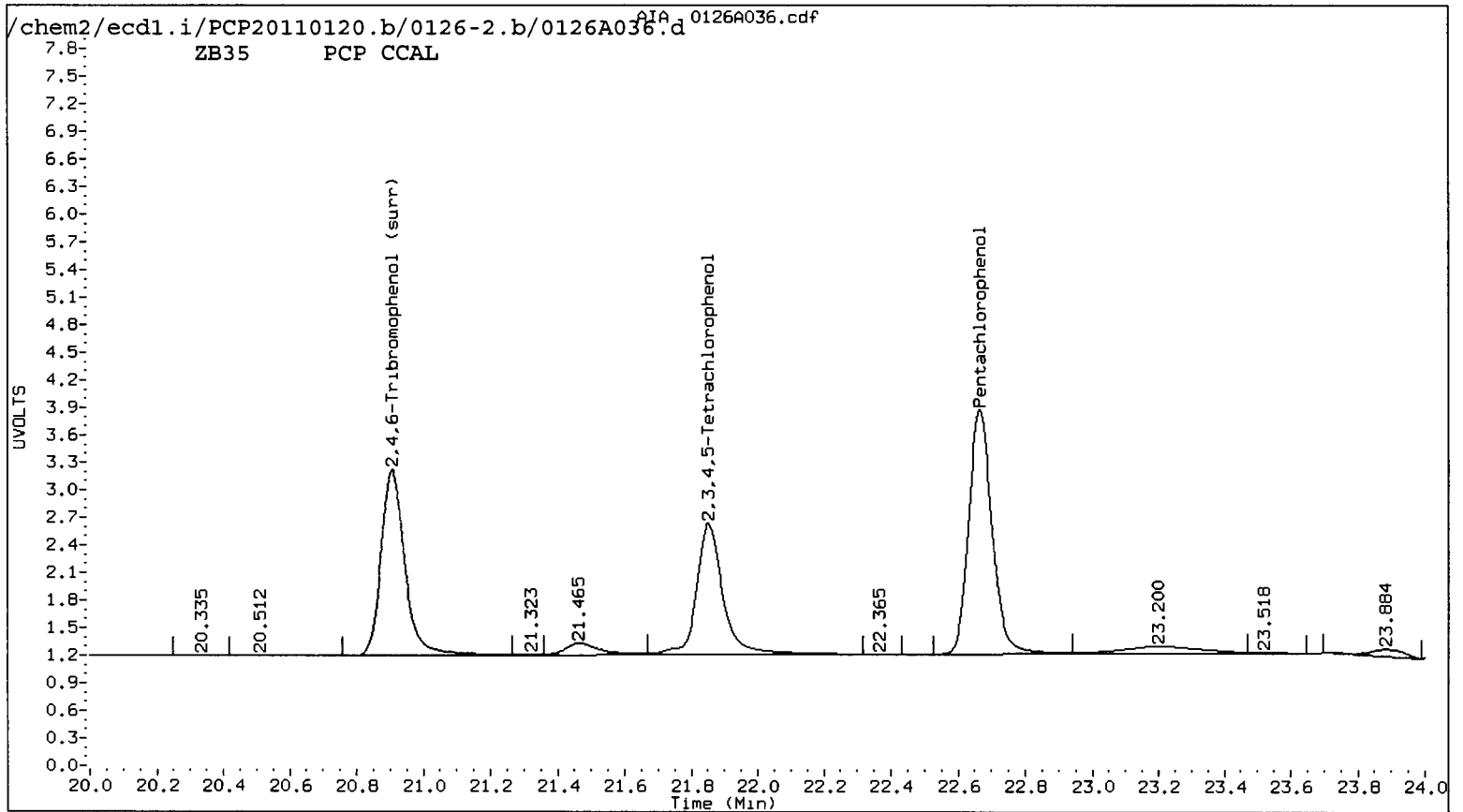
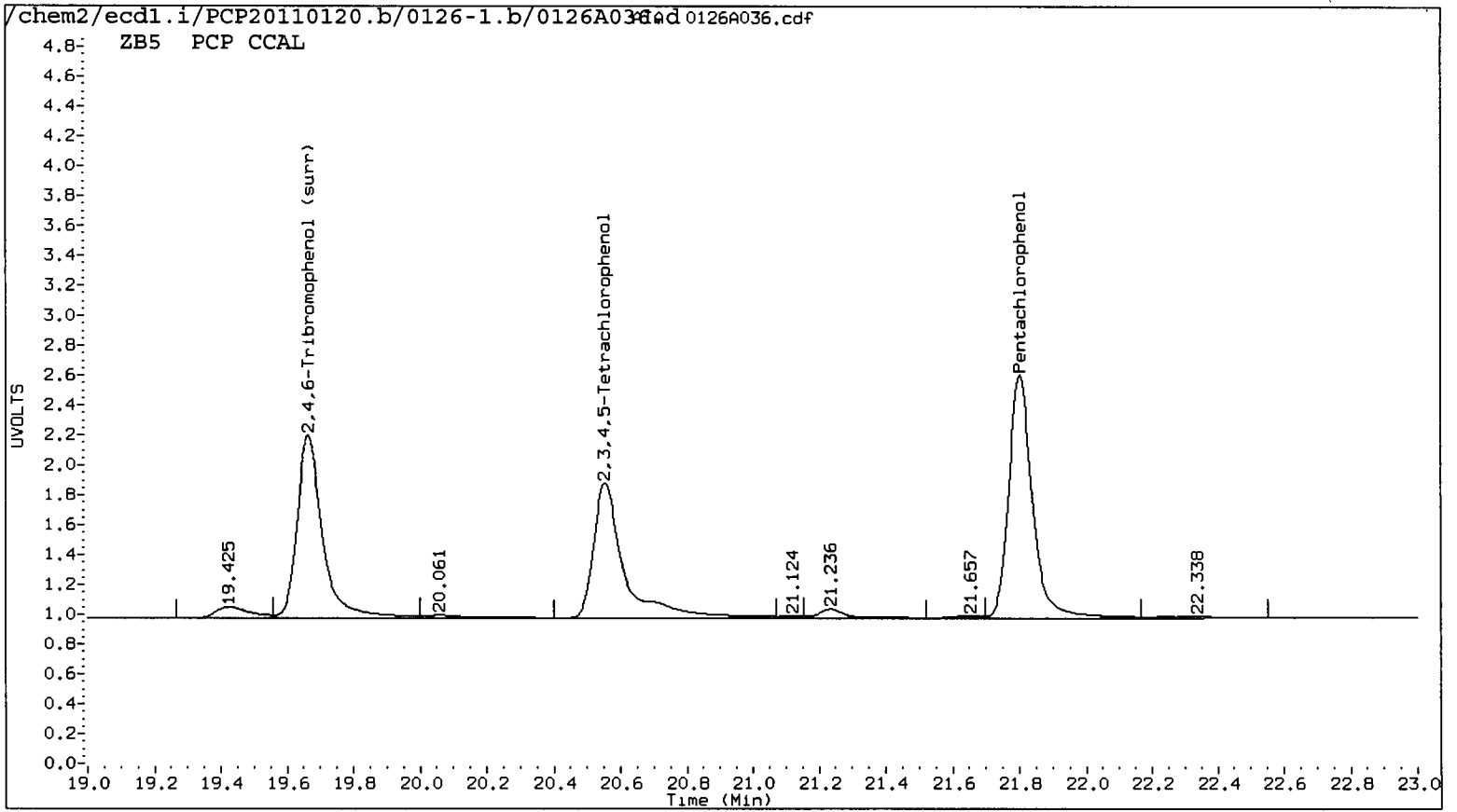
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 Data file 2: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A036.d Client ID:
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 27-JAN-2011 04:18
 Compound Sublist: all Report Date: 01/27/2011 12:43
 Instrument: ecdl.i Matrix: WATER
 Operator: 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		
21.802	0.004	405055	22.665	0.004	650595	24.9687	24.8124	0.6	Pentachlorophenol
13.433	0.003	240643	13.820	0.003	382221	25.5777	25.8769	1.2	2,4,6-Trichlorophenol
14.401	0.003	224871	15.227	0.003	338229	24.7036	24.6426	0.2	2,3,6-Trichlorophenol
16.117	0.006	133083	17.197	0.006	199231	28.1398	24.7350	12.9	2,4,5-Trichlorophenol
17.361	0.005	165914	18.760	0.005	239147	26.1706	25.9631	0.8	2,3,4-Trichlorophenol
17.745	0.005	346535	18.455	0.004	520145	24.8448	24.6567	0.8	2,3,5,6-Tetrachlorophenol
20.555	0.007	296112	21.852	0.006	400817	27.9342	24.9801	11.2	2,3,4,5-Tetrachlorophenol
12.457	0.004	146214	13.471	0.003	188922	282.8684	244.7833	14.4	2,4-Dichlorophenol
19.665	0.005	331094	20.907	0.004	496992	25.7	24.8	3.4	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	99.9	99.2
2,4,6-Trichlorophenol	102.3	103.5
2,3,6-Trichlorophenol	98.8	98.6
2,4,5-Trichlorophenol	112.6	98.9
2,3,4-Trichlorophenol	104.7	103.9
2,3,5,6-Tetrachlorophenol	99.4	98.6
2,3,4,5-Tetrachlorophenol	111.7	99.9
2,4-Dichlorophenol	113.1	97.9
2,4,6-TBP (surr)	102.8	99.3





Data File: /chem2/ecod1.i/PCP20110120.b/0126-1.b/0126A036.d

Date : 27-JAN-2011 04:18

Client ID:

Sample Info: PCP CCAL

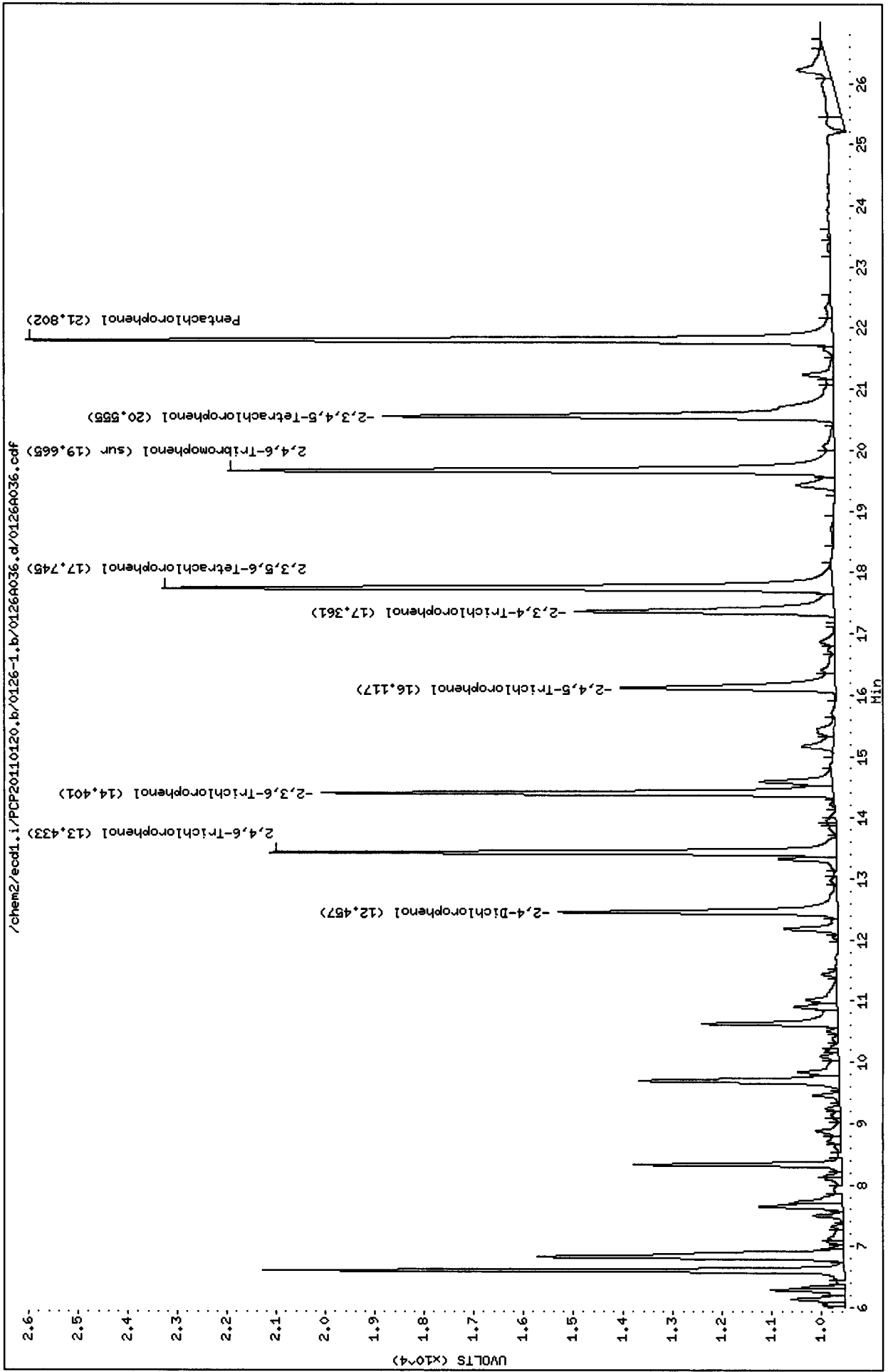
Purge Volume: 2.0

Column phase: ZB5

Instrument: ecod1.i

Operator: ar

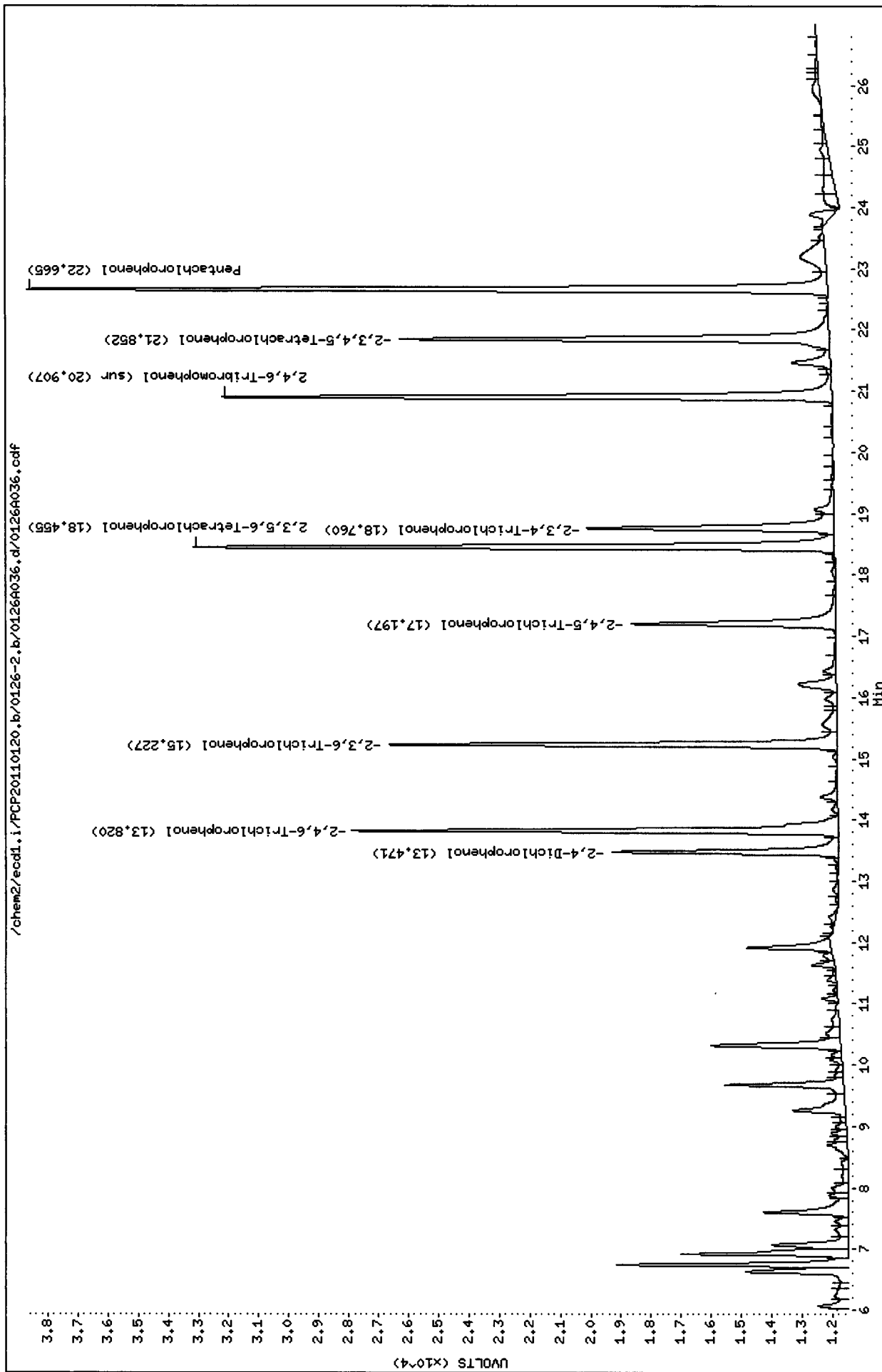
Column diameter: 0.53



0126 . 01045

Data File: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A036.d
Date: 27-JAN-2011 04:18
Client ID:
Sample Info: PCP CCAL
Purge Volume: 2.0
Column phase: ZB35

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



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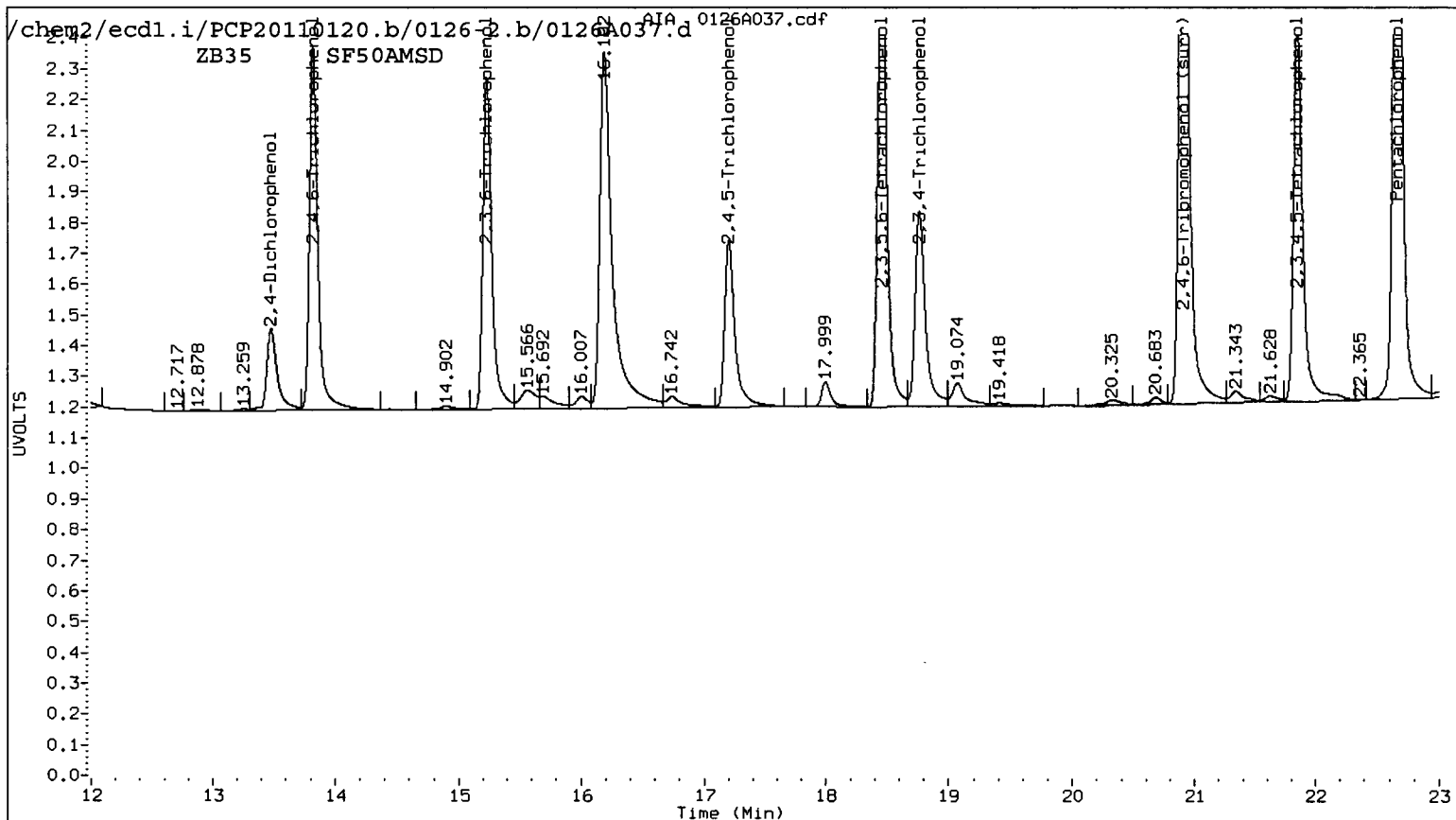
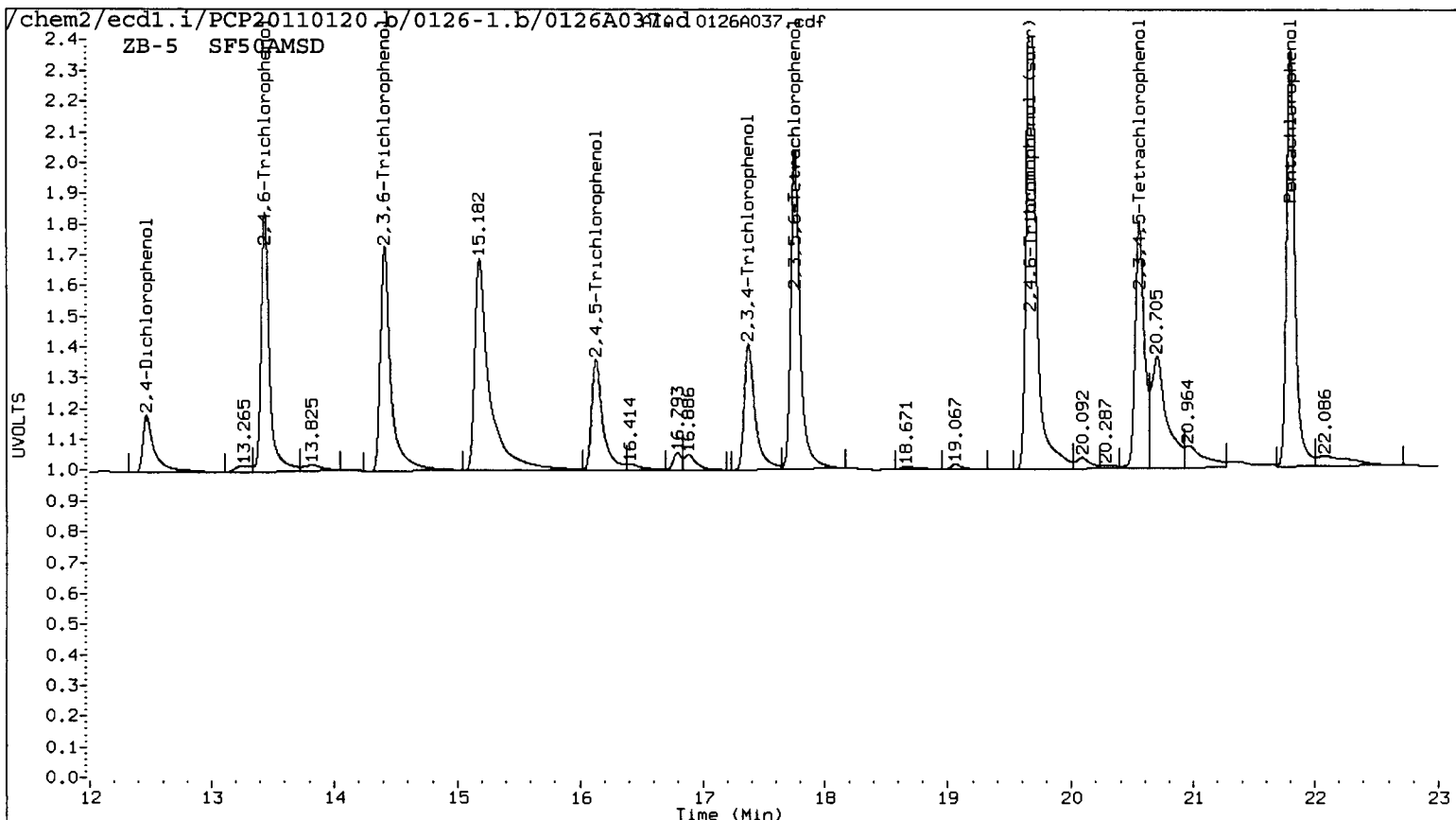
AR 1/27/2011

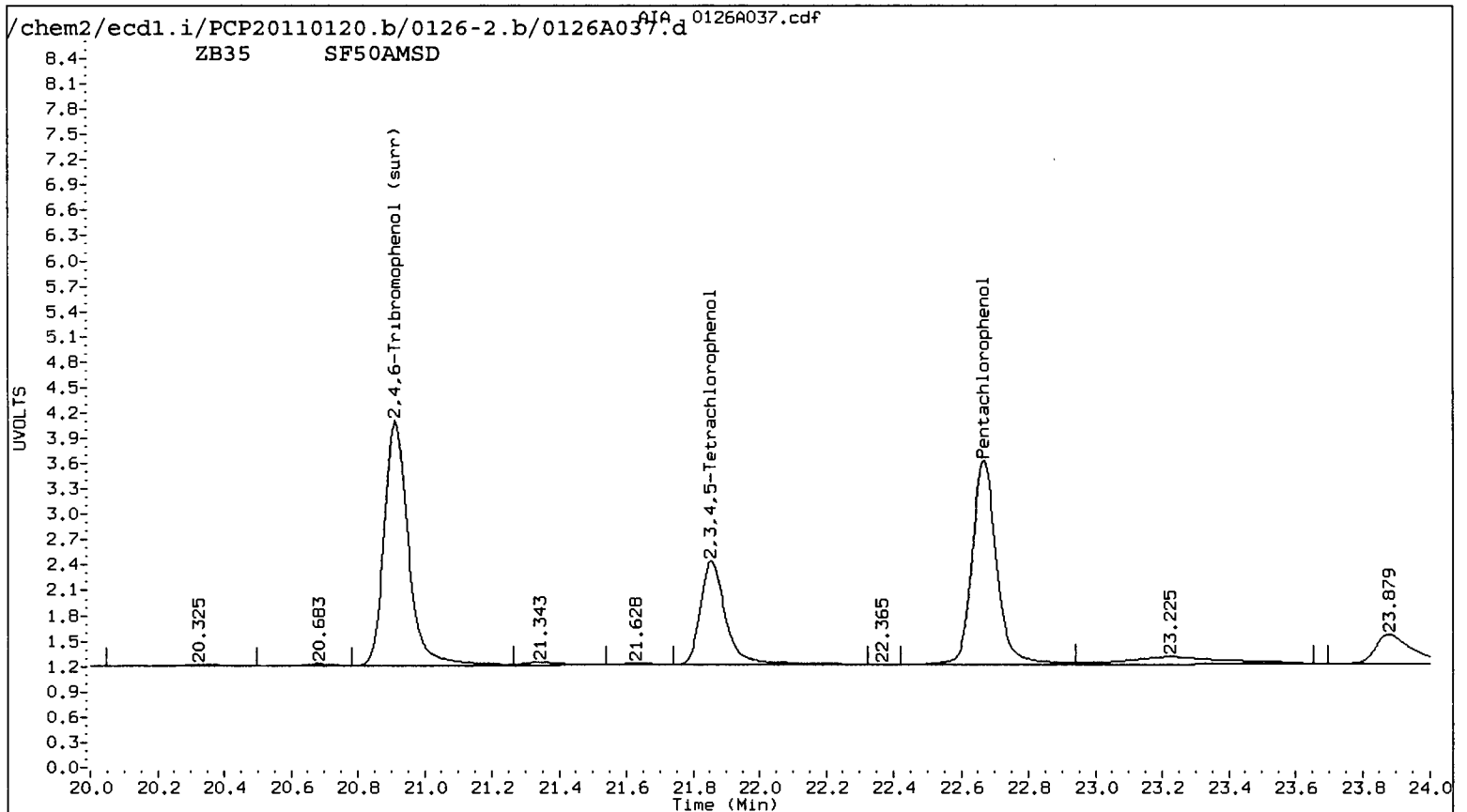
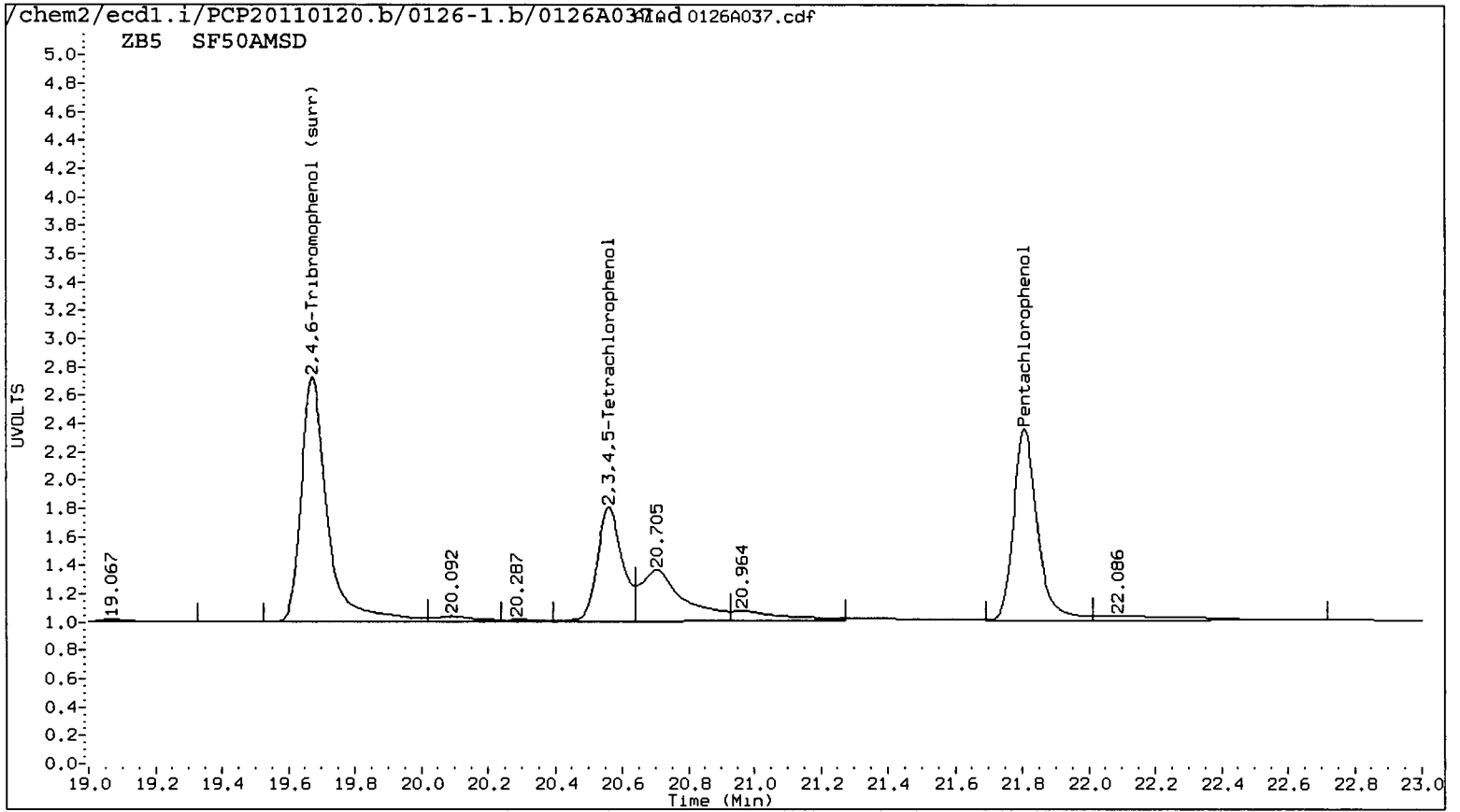
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 Data file 2: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A037.d Client ID: MW13-012011 MSD
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 27-JAN-2011 04:54
 Compound Sublist: all Report Date: 01/27/2011 12:43
 Instrument: ecdl.i Matrix: WATER
 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		
21.807	0.009	336496	22.668	0.006	610507	20.7426	23.2835	11.5	Pentachlorophenol
13.436	0.006	201498	13.823	0.006	285268	20.9954	19.3131	8.3	2,4,6-Trichlorophenol
14.410	0.012	214395	15.234	0.010	277612	23.5527	20.2262	15.2	2,3,6-Trichlorophenol
16.132	0.021	113710	17.207	0.015	158349	24.0434	19.6593	20.1	2,4,5-Trichlorophenol
17.373	0.017	128194	18.767	0.012	184467	20.2207	20.0267	1.0	2,3,4-Trichlorophenol
17.756	0.016	273866	18.463	0.012	406632	19.6348	19.2758	1.8	2,3,5,6-Tetrachlorophenol
20.560	0.012	209520	21.855	0.009	334549	19.7654	20.8501	5.3	2,3,4,5-Tetrachlorophenol
12.466	0.013	65173	13.481	0.013	80733	113.2918	90.9604	21.9	2,4-Dichlorophenol
19.674	0.014	471891	20.912	0.010	733441	36.6	36.6	0.1	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	83.0	93.1
2,4,6-Trichlorophenol	84.0	77.3
2,3,6-Trichlorophenol	94.2	80.9
2,4,5-Trichlorophenol	96.2	78.6
2,3,4-Trichlorophenol	80.9	80.1
2,3,5,6-Tetrachlorophenol	78.5	77.1
2,3,4,5-Tetrachlorophenol	79.1	83.4
2,4-Dichlorophenol	45.3	36.4
2,4,6-TBP (surr)	73.2	73.3

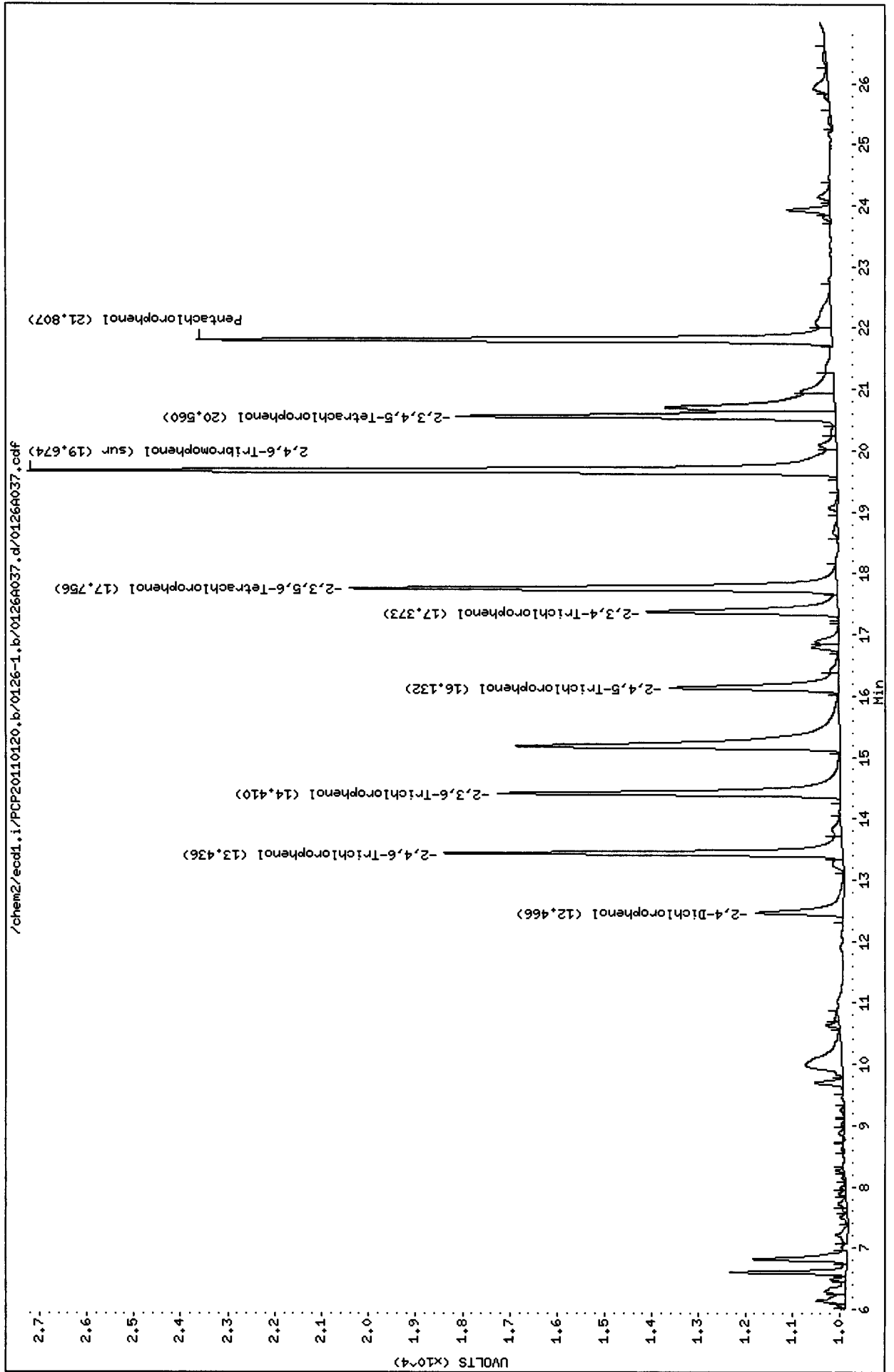




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Date : 27-JAN-2011 04:54
Client ID: MW13-012011 MSD
Sample Info: SF504HSD
Purge Volume: 2.0
Column phase: ZB5

Instrument: ecd1.i

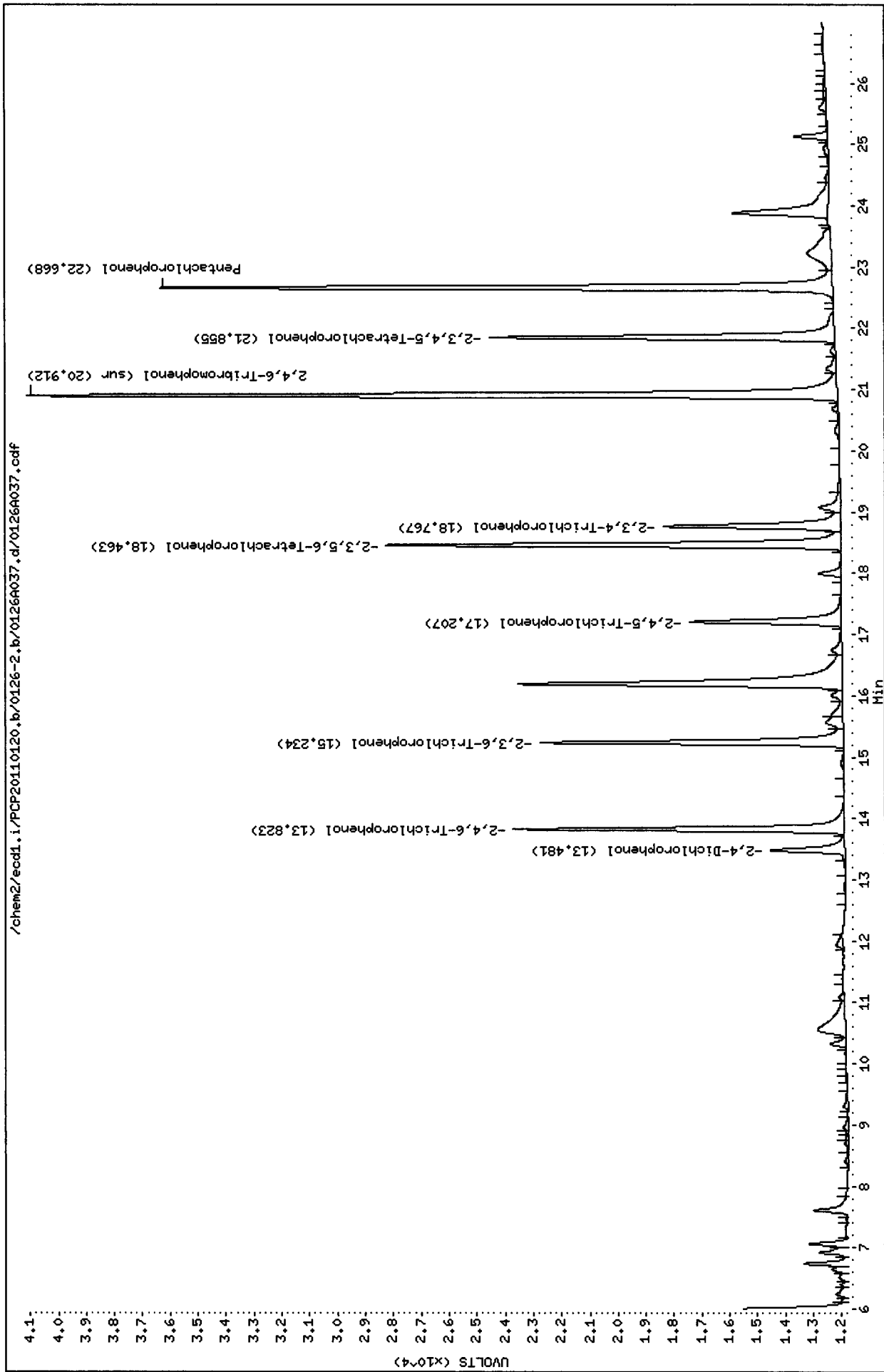
Operator: ar
Column diameter: 0.53



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Date : 27-JAN-2011 04:54
Client ID: MM13-012011 MSD
Sample Info: SF50AMSD
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecdl1.i

Operator: ar
Column diameter: 0.53



Analytical Resources Inc.
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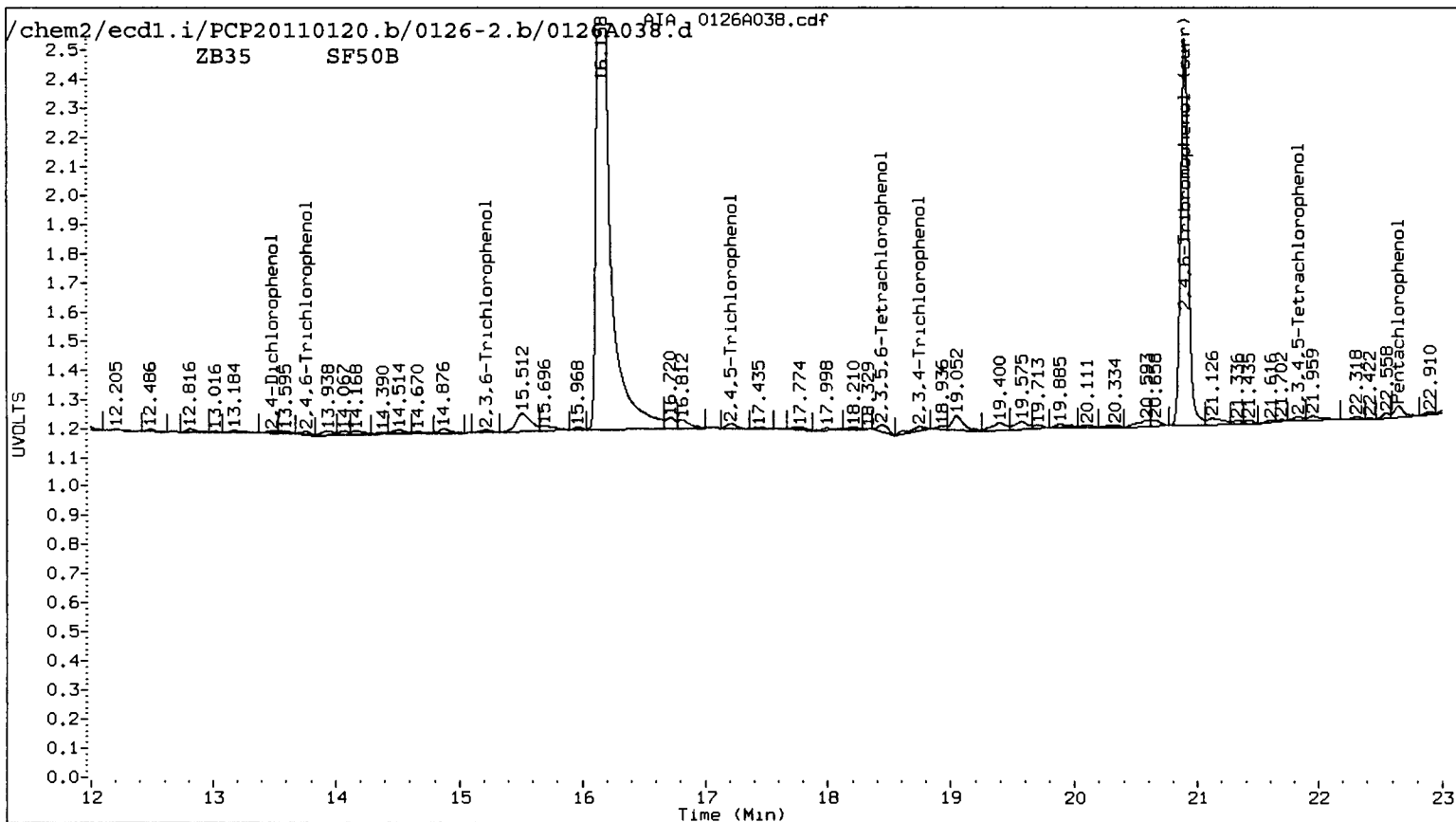
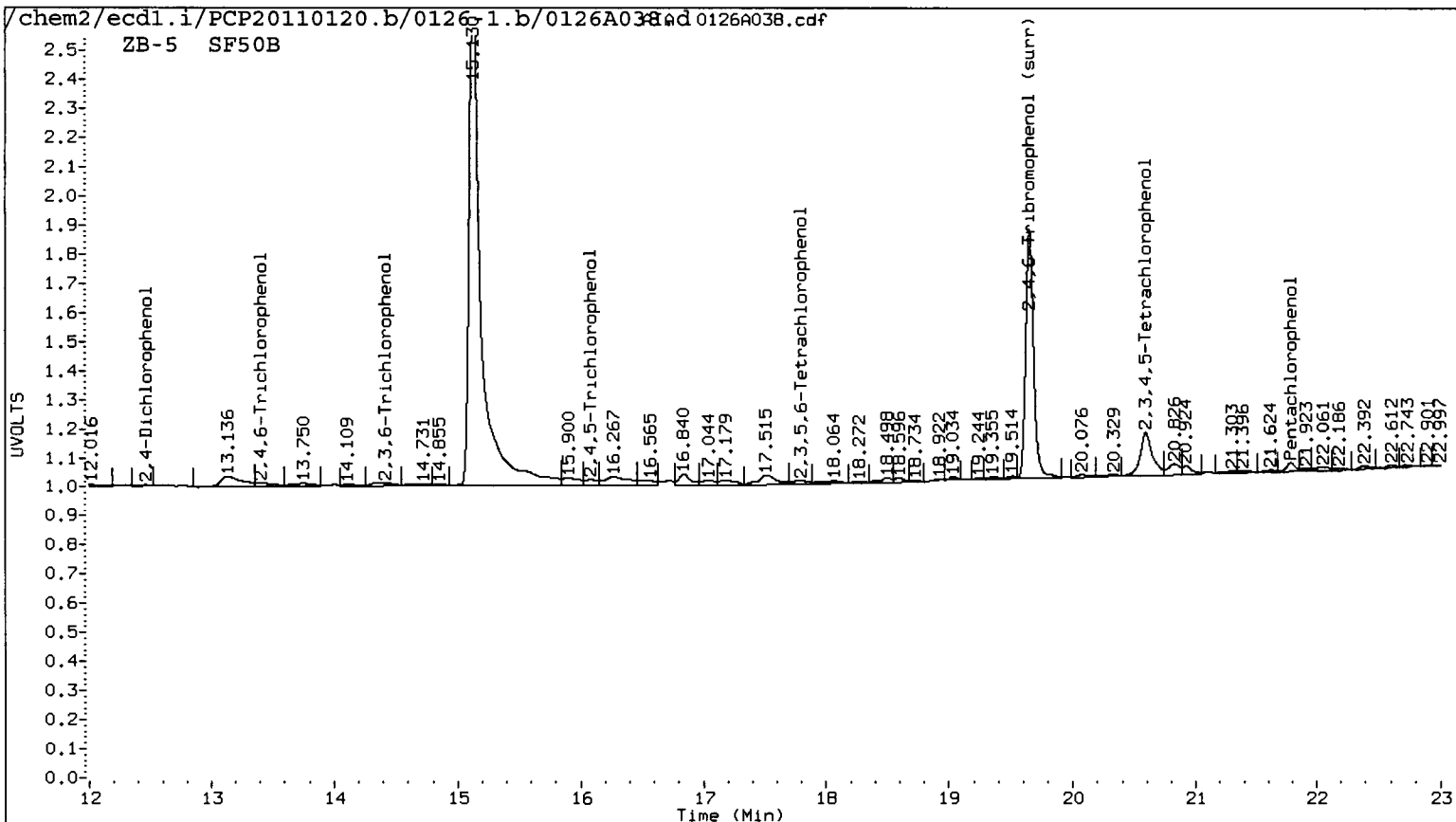
AR 1/27/2011

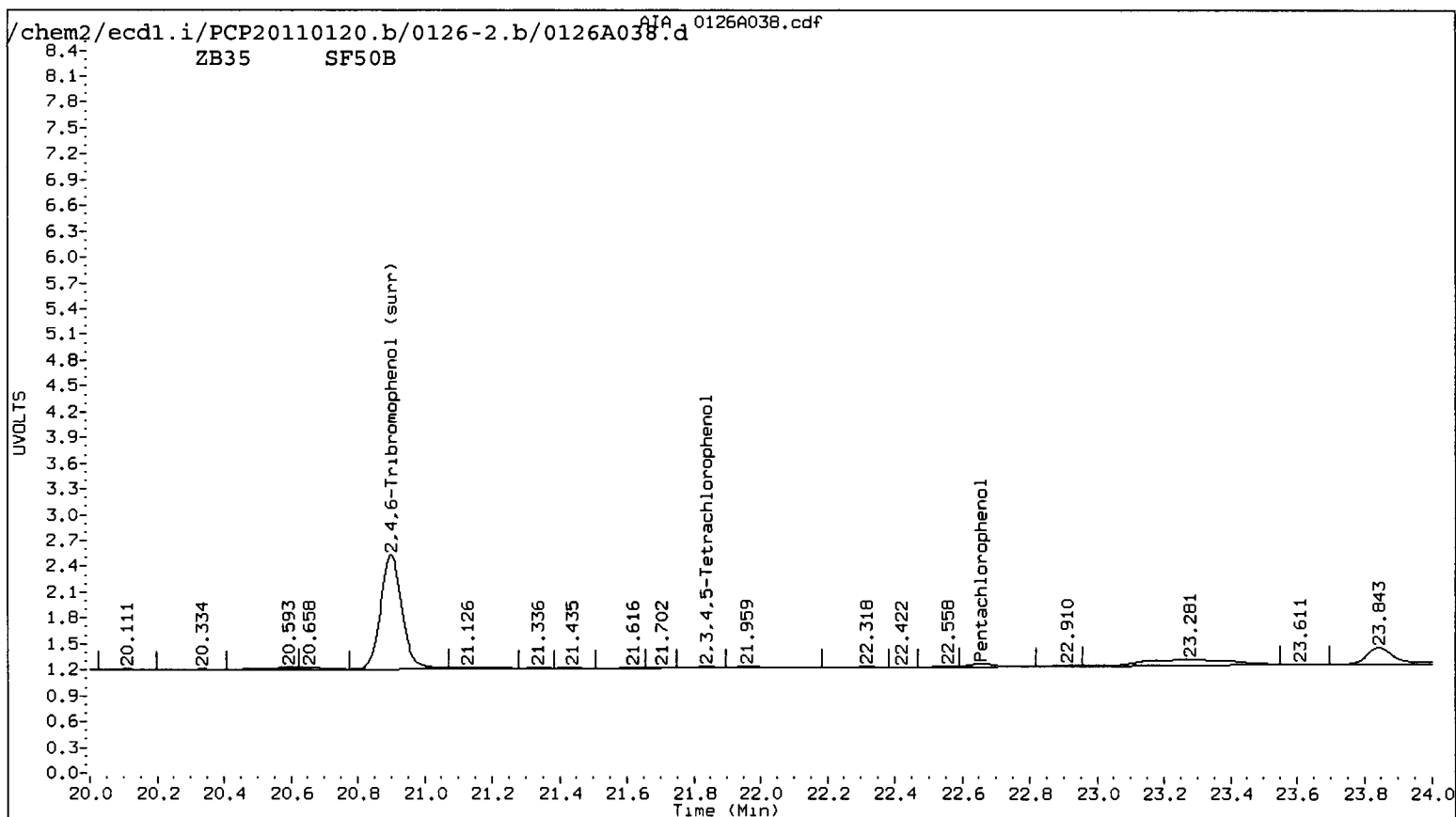
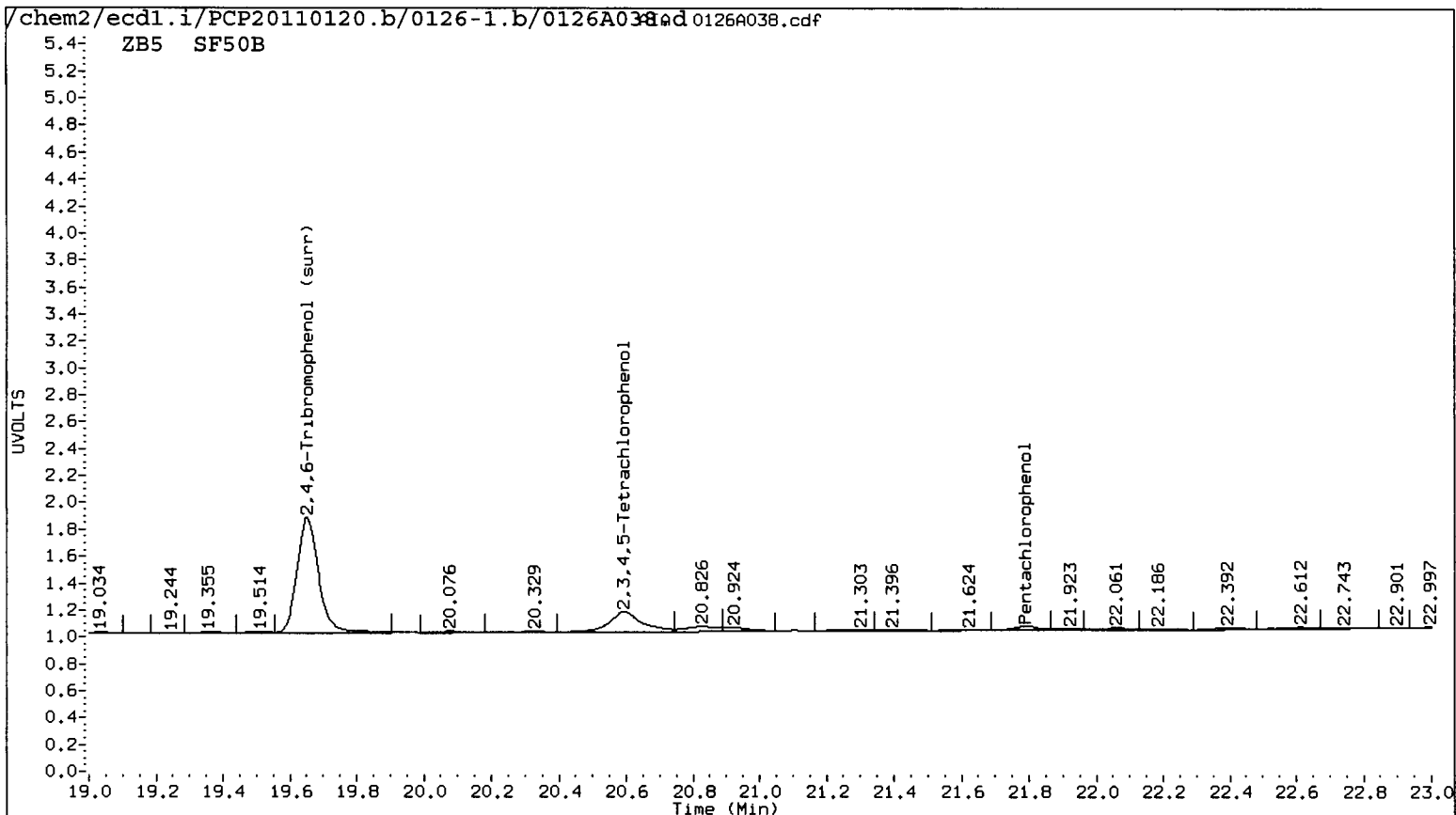
Data file 1: /chem2/ecdl.i/PCP20110120.b/0126-1.b/0126A038.d ARI ID: SF50B
 Data file 2: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A038.d Client ID: MW06-012011
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 27-JAN-2011 05:30
 Compound Sublist: all Report Date: 01/27/2011 12:43
 Instrument: 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		
21.790	-0.008	7706	22.657	-0.004	10278	0.4750	0.3920 ^{RR}	19.1	Pentachlorophenol
13.407	-0.023	6019	13.758	-0.058	2659	0.5643	0.1801	103.2*	2,4,6-Trichlorophenol
14.413	0.015	6262	15.217	-0.007	3144	0.6880	0.2291	100.1*	2,3,6-Trichlorophenol
16.085	-0.026	6554	17.212	0.021	5614	1.3859	0.6970	66.2*	2,4,5-Trichlorophenol
----			18.754	-0.001	6900	0.0000	0.7492	---	2,3,4-Trichlorophenol
17.793	0.053	5406	18.442	-0.009	6960	0.3877	0.3299	16.1	2,3,5,6-Tetrachlorophenol
20.594	0.046	51176	21.837	-0.009	3042	4.8278	0.1896	184.9*	2,3,4,5-Tetrachlorophenol
12.467	0.014	1503	13.482	0.014	1991	2.3823	1.9983	17.5	2,4-Dichlorophenol
19.652	-0.008	193814	20.900	-0.003	294917	15.0	14.7	2.0	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	60.2	58.9





Data File: /chem2/eod1.i/PCP20110120.b/0126-1.b/0126A038.d

Date : 27-JAN-2011 05:30

Client ID: MM06-012011

Sample Info: SF50B

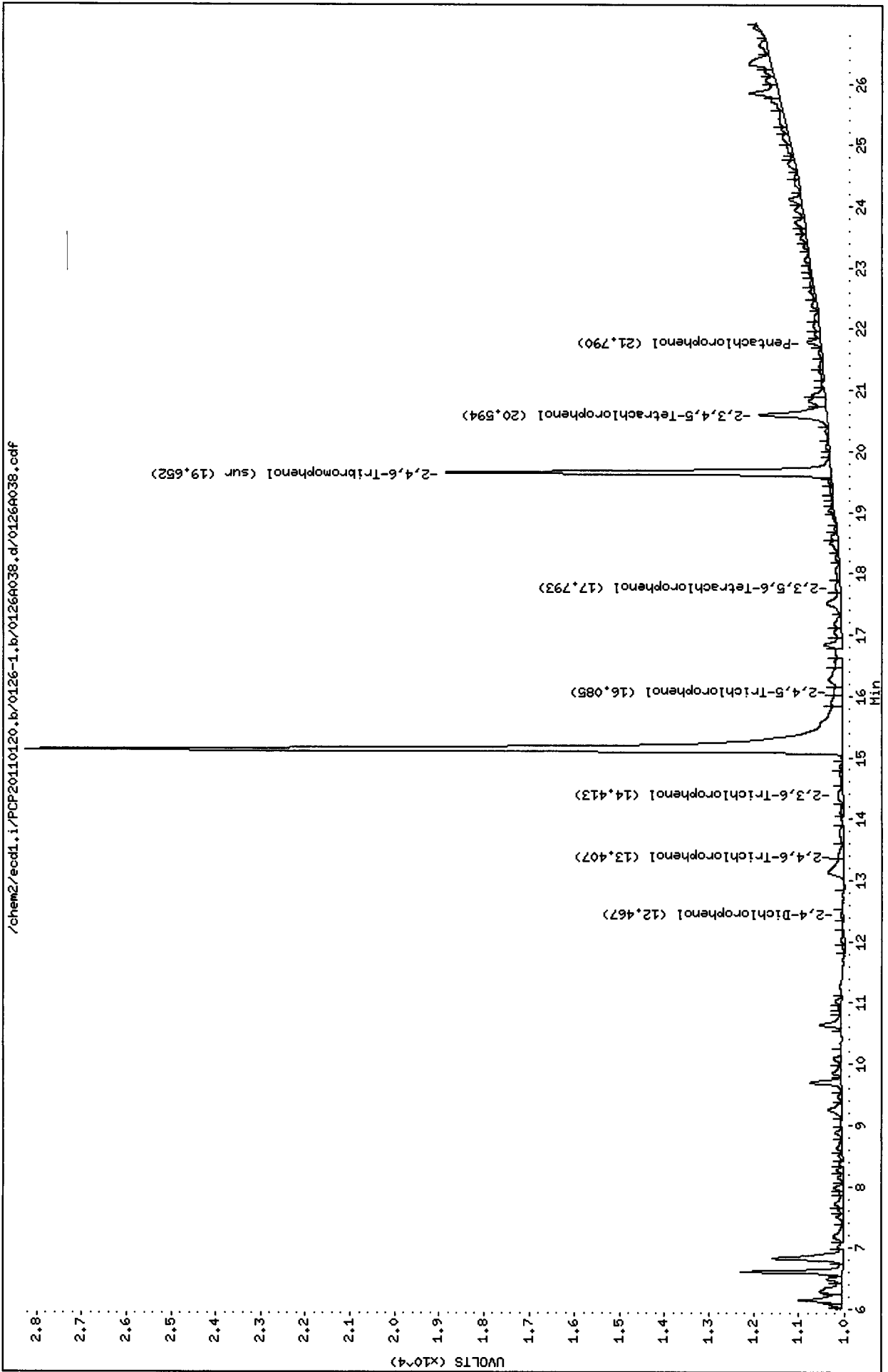
Purge Volume: 2.0

Column phase: ZB5

Instrument: eod1.i

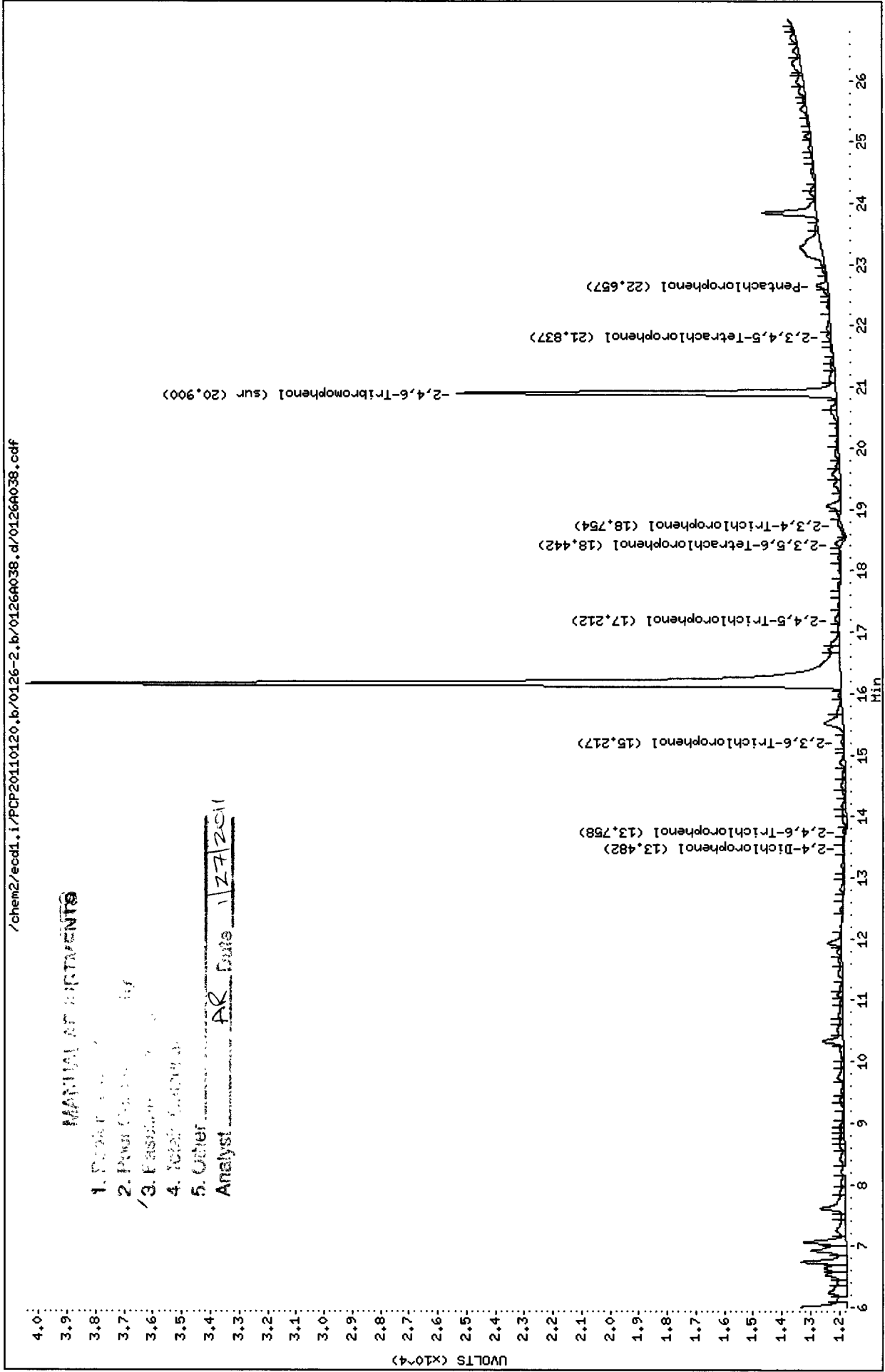
Operator: ar

Column diameter: 0.53



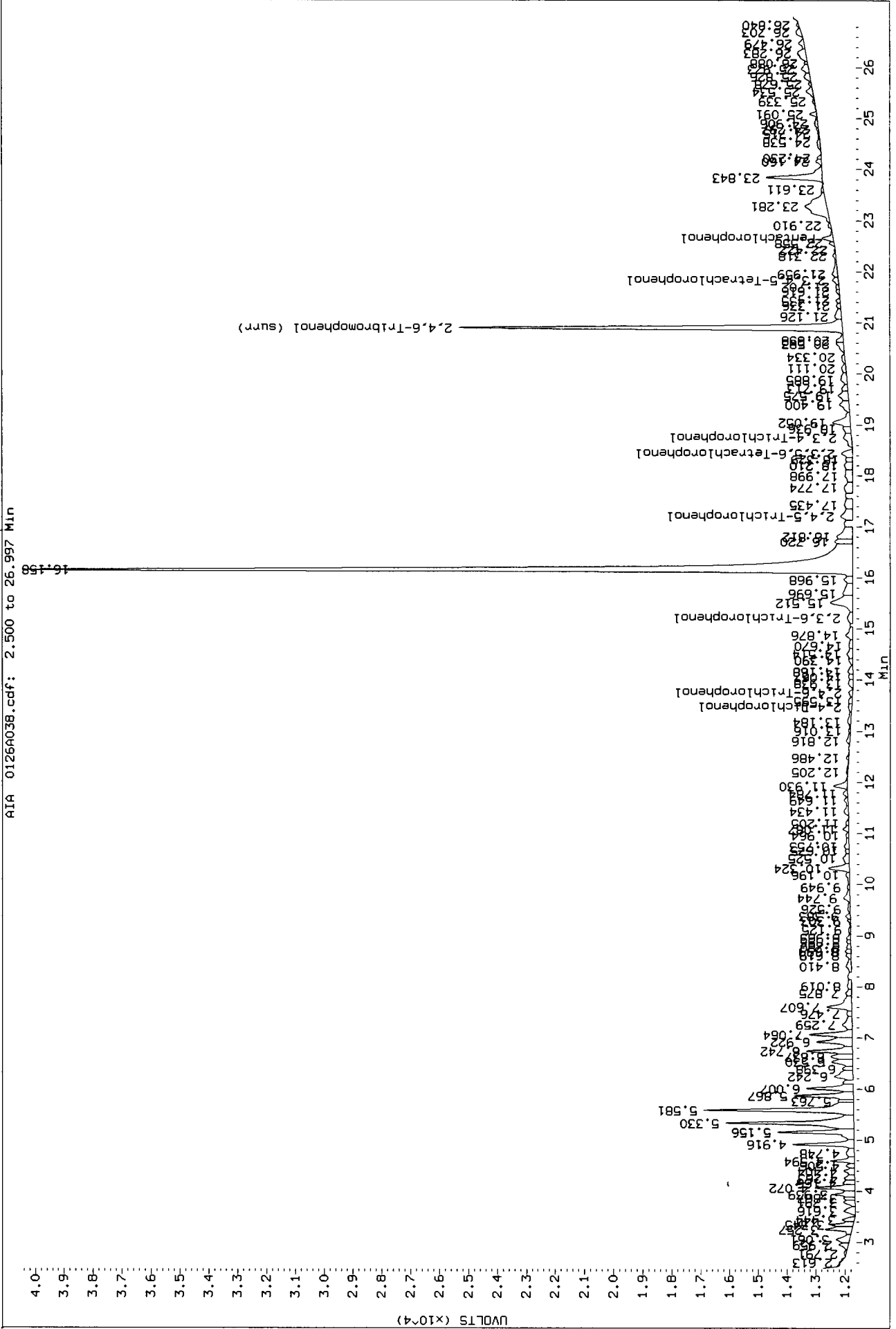
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 Date : 27-JAN-2011 05:30
 Client ID: MM06-012011
 Sample Info: SF50B
 Purge Volume: 2.0
 Column phase: ZB35

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



Data File: /chem2/ecd1.1/PCF20110120.b/0126-2.b/0126A03B.d/0126A03B.cdf
 Injection Date: 27-JAN-2011 05:30
 Instrument: ecd1.1
 Client Sample ID: Mw06-012011

NR 12772011 Before



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Dual Column 8041 Chlorinated Phenols Quantitation Report

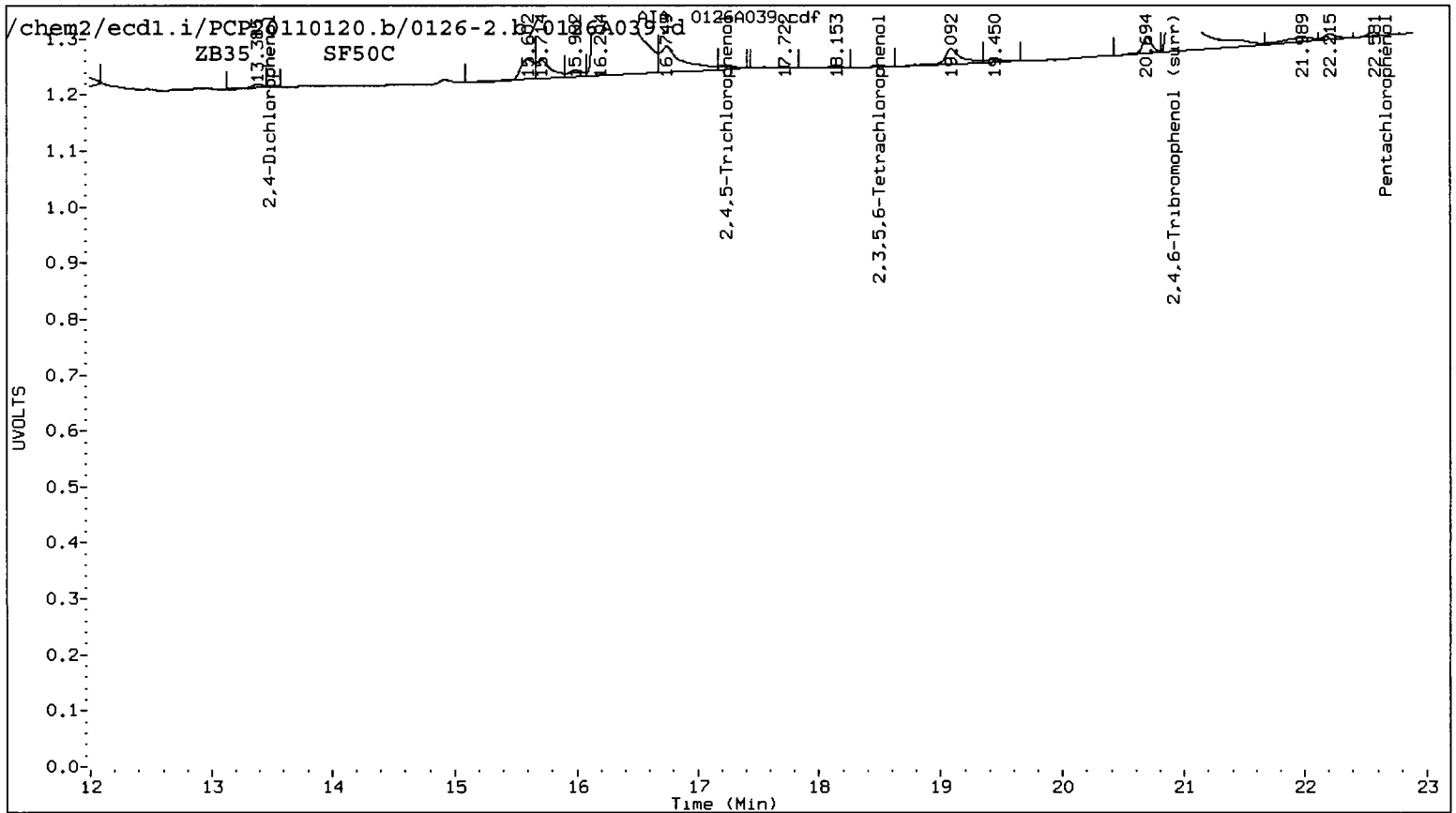
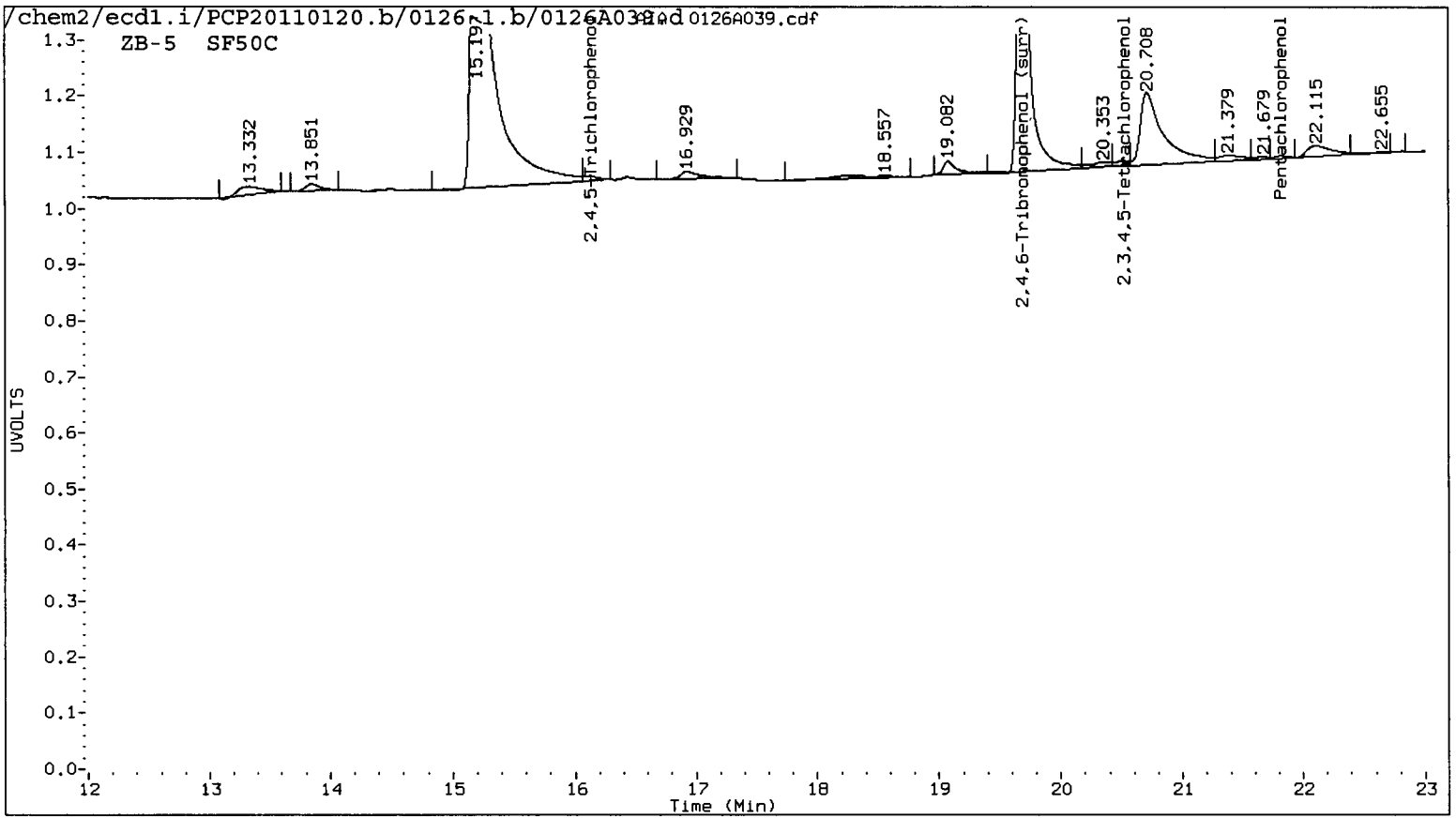
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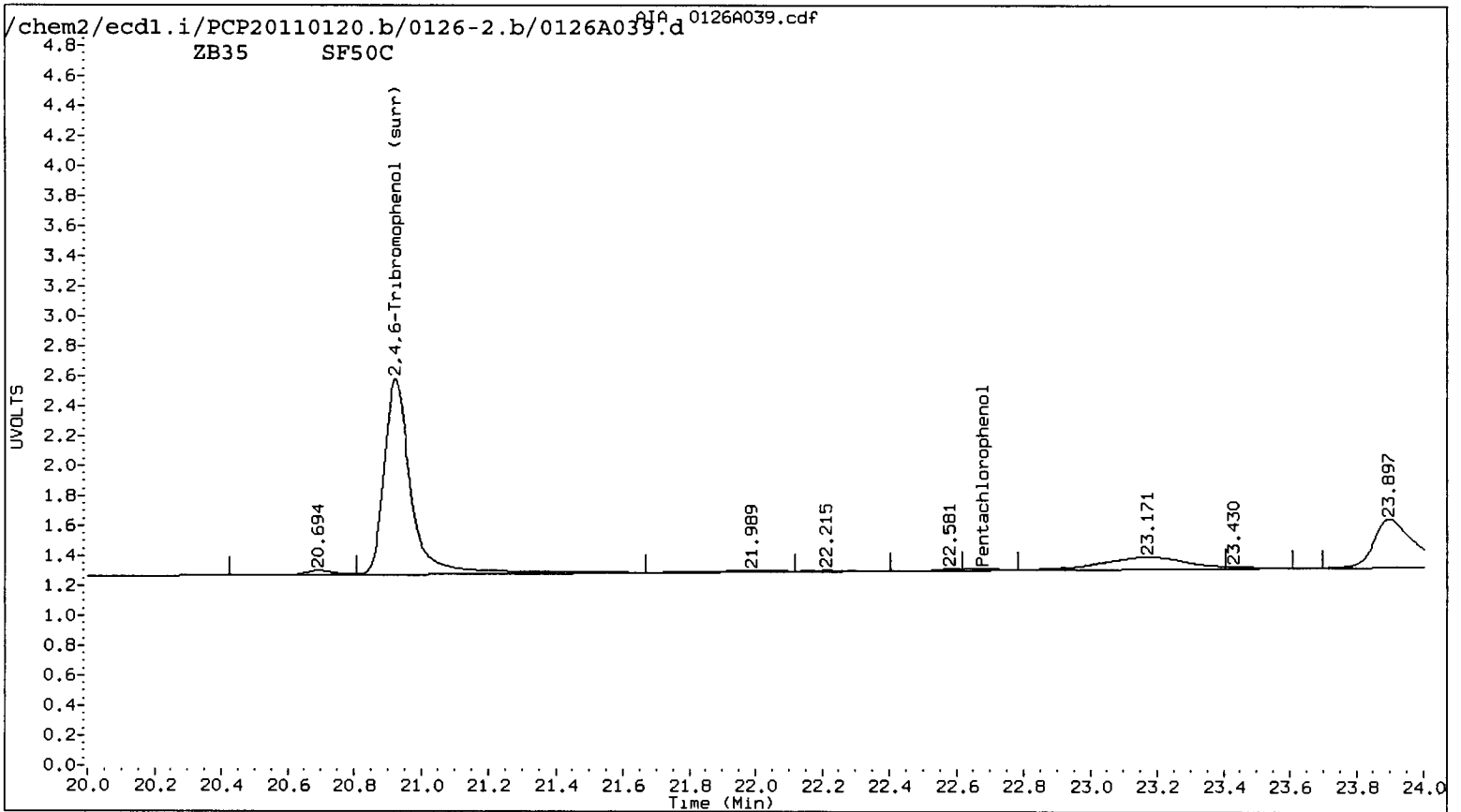
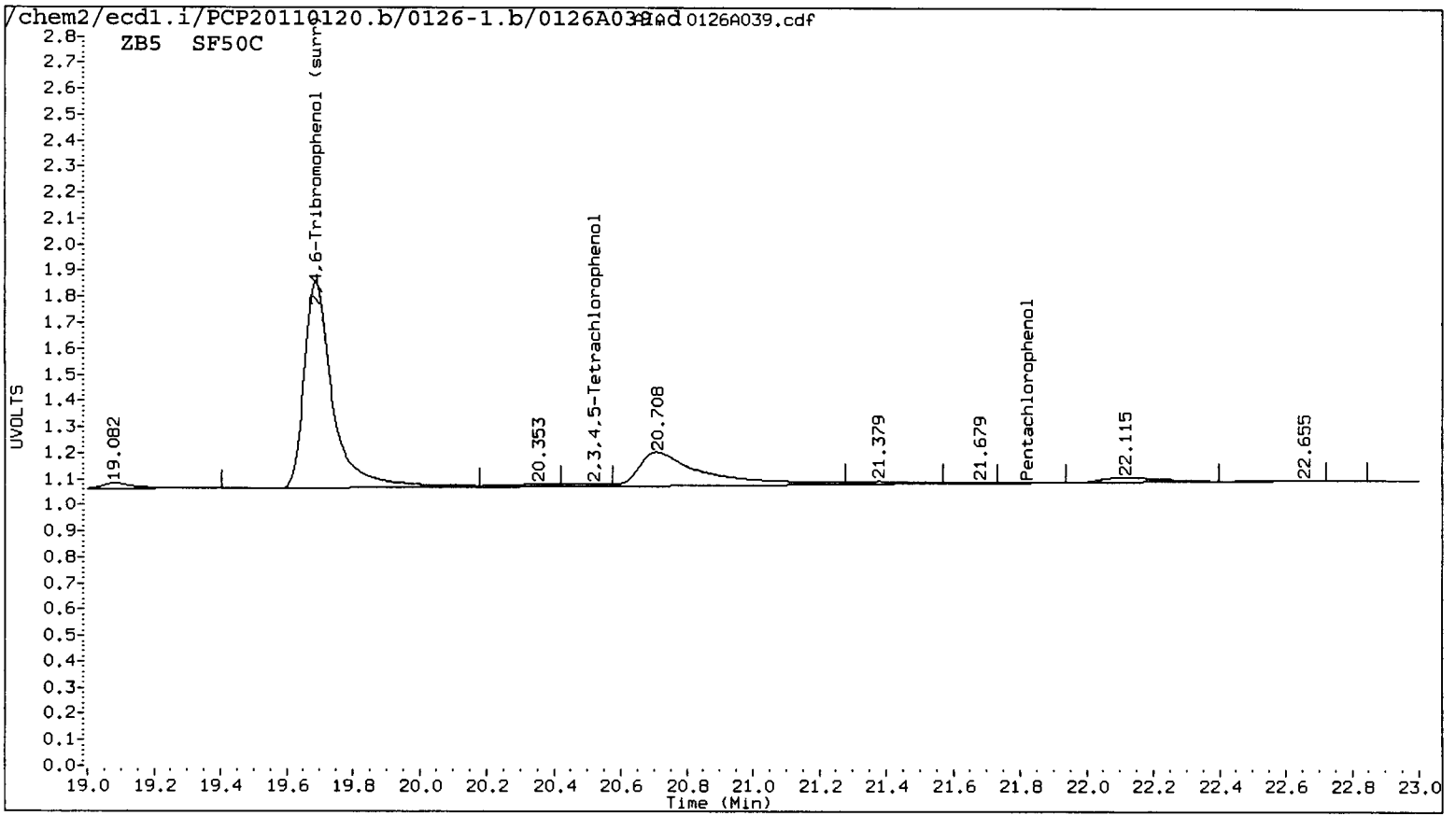
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 Data file 2: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A039.d Client ID: MW12-012011
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 27-JAN-2011 06:06
 Compound Sublist: all Report Date: 01/27/2011 12:43
 Instrument: ecdl.i Matrix: WATER
 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		
21.819	0.020	1618	22.678	0.016	5394	0.0998	0.2057 ^{RPV}	69.4*	Pentachlorophenol
----			----			0.0000	0.0000	---	2,4,6-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,6-Trichlorophenol
16.128	0.018	3244	17.242	0.051	2509	0.6860	0.3115	75.1*	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
----			18.498	0.047	1107	0.0000	0.0525	---	2,3,5,6-Tetrachlorophenol
20.521	-0.028	3748	----			0.3537	0.0000	---	2,3,4,5-Tetrachlorophenol
----			13.488	0.020	585	0.0000	0.5867	---	2,4-Dichlorophenol
19.688	0.029	236881	20.924	0.022	368481	18.4	18.4	0.2	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	73.5	73.6





Data File: /chem2/ecdl.i/PCP20110120.b/0126-1.b/0126A039.d

Date : 27-JAN-2011 06:06

Client ID: MM12-012011

Sample Info: SF50C

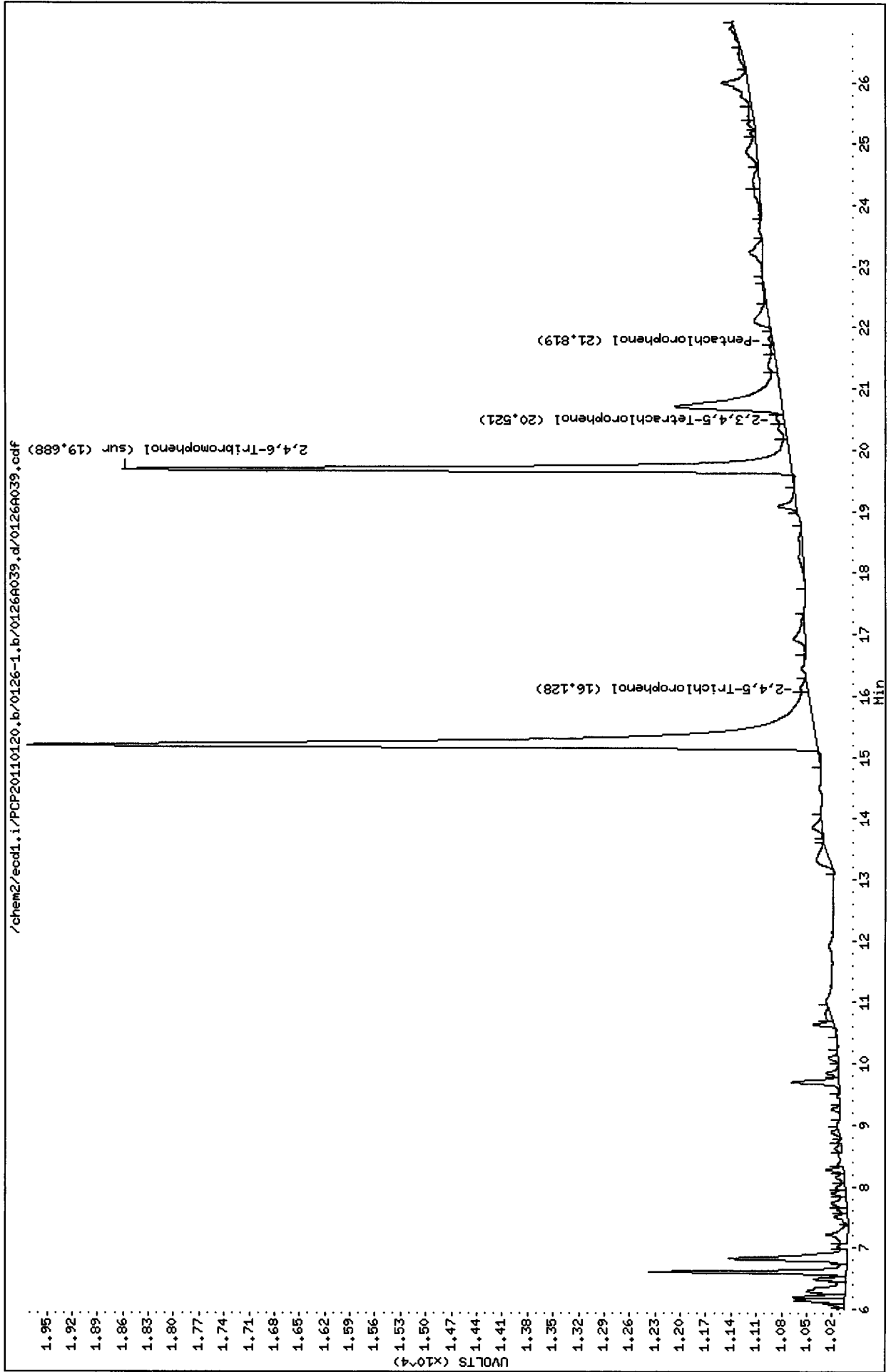
Purge Volume: 2.0

Column phase: ZB5

Instrument: ecdl.i

Operator: ar

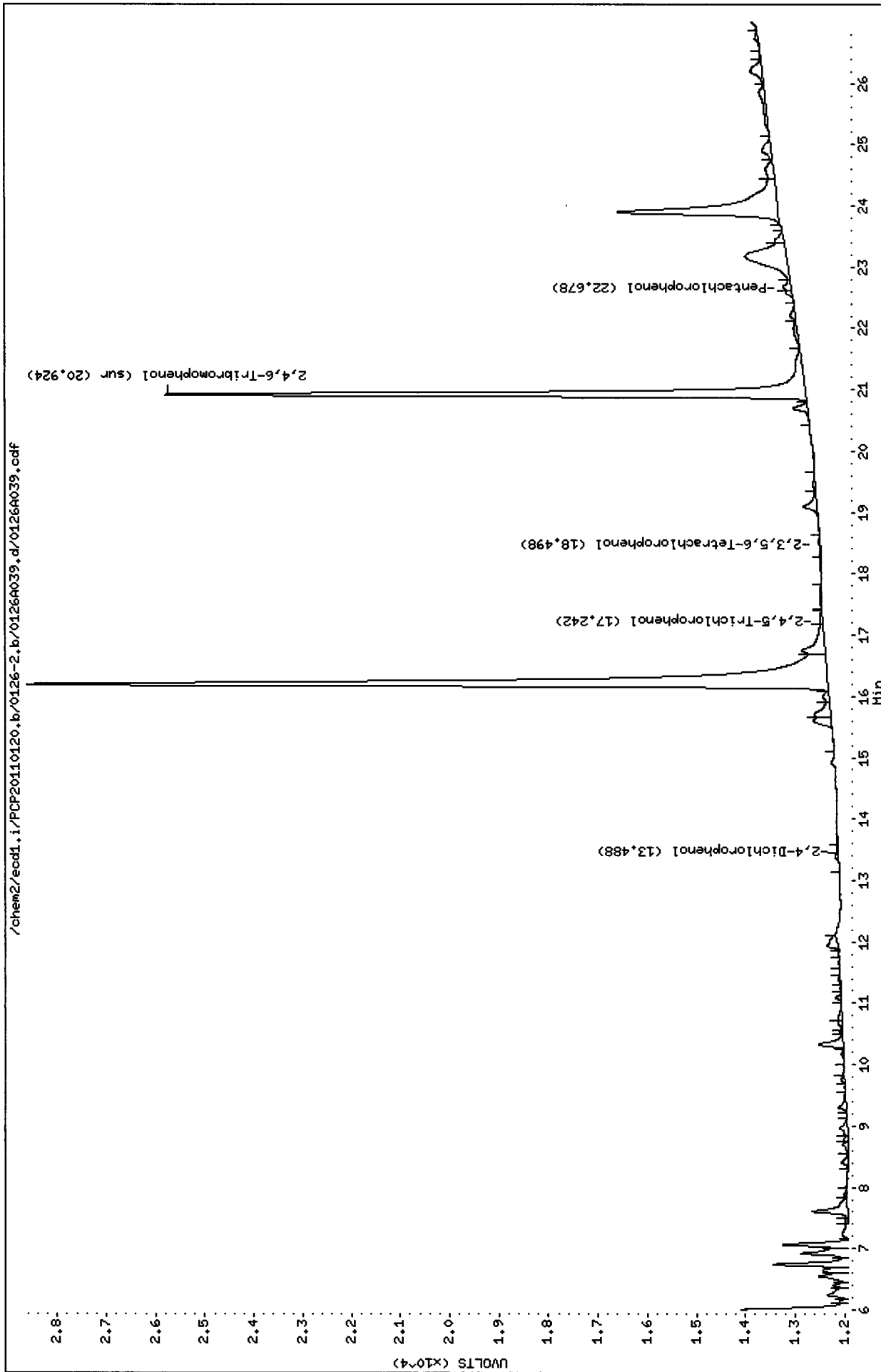
Column diameter: 0.53



Data File: /chem2/ecdl1.i/PCP20110120.b/0126-2.b/0126A039.d
Date : 27-JAN-2011 06:06
Client ID: MM12-012011
Sample Info: SF50C
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecdl1.i

Operator: ar
Column diameter: 0.53



Analytical Resources Inc.
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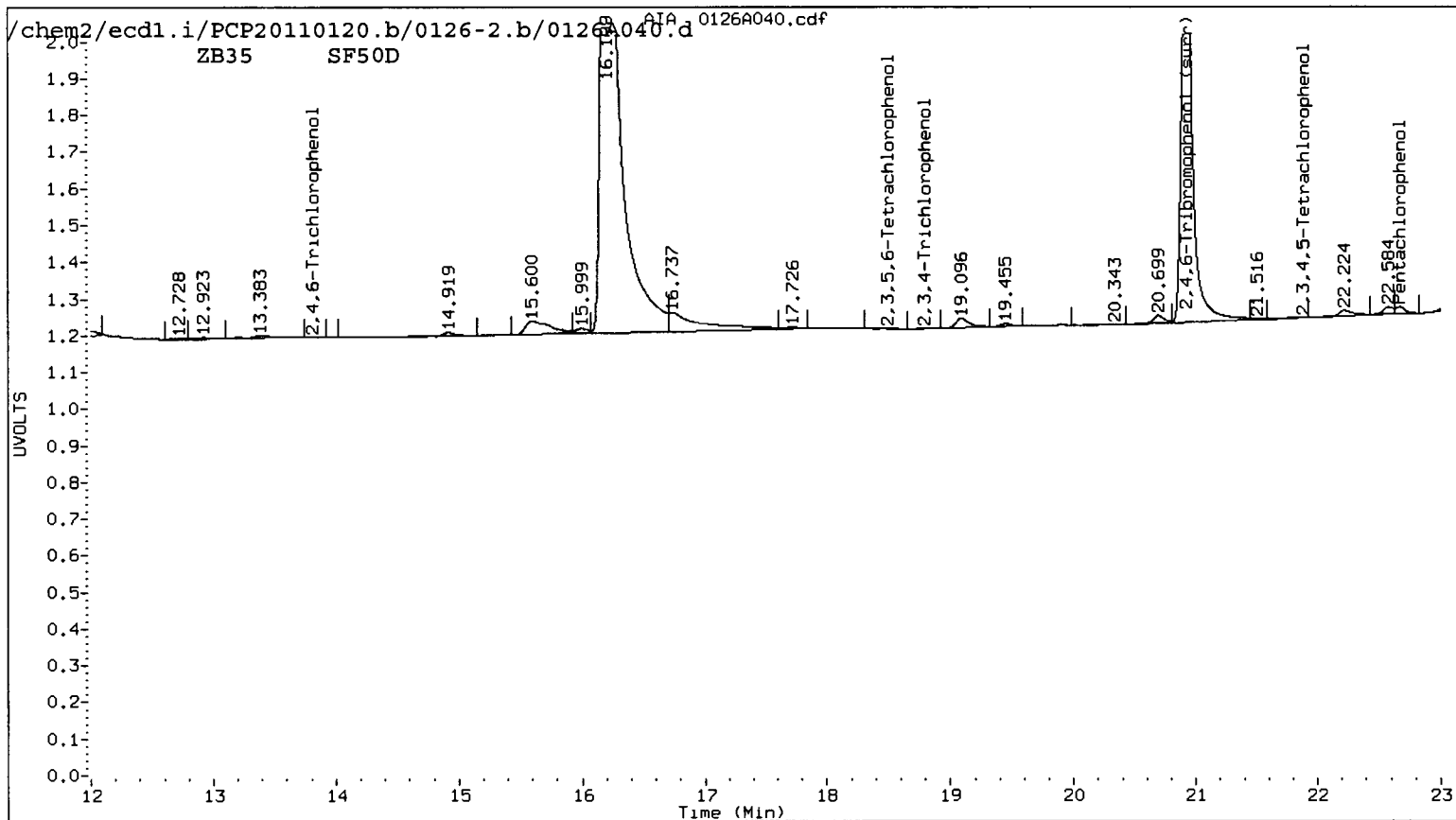
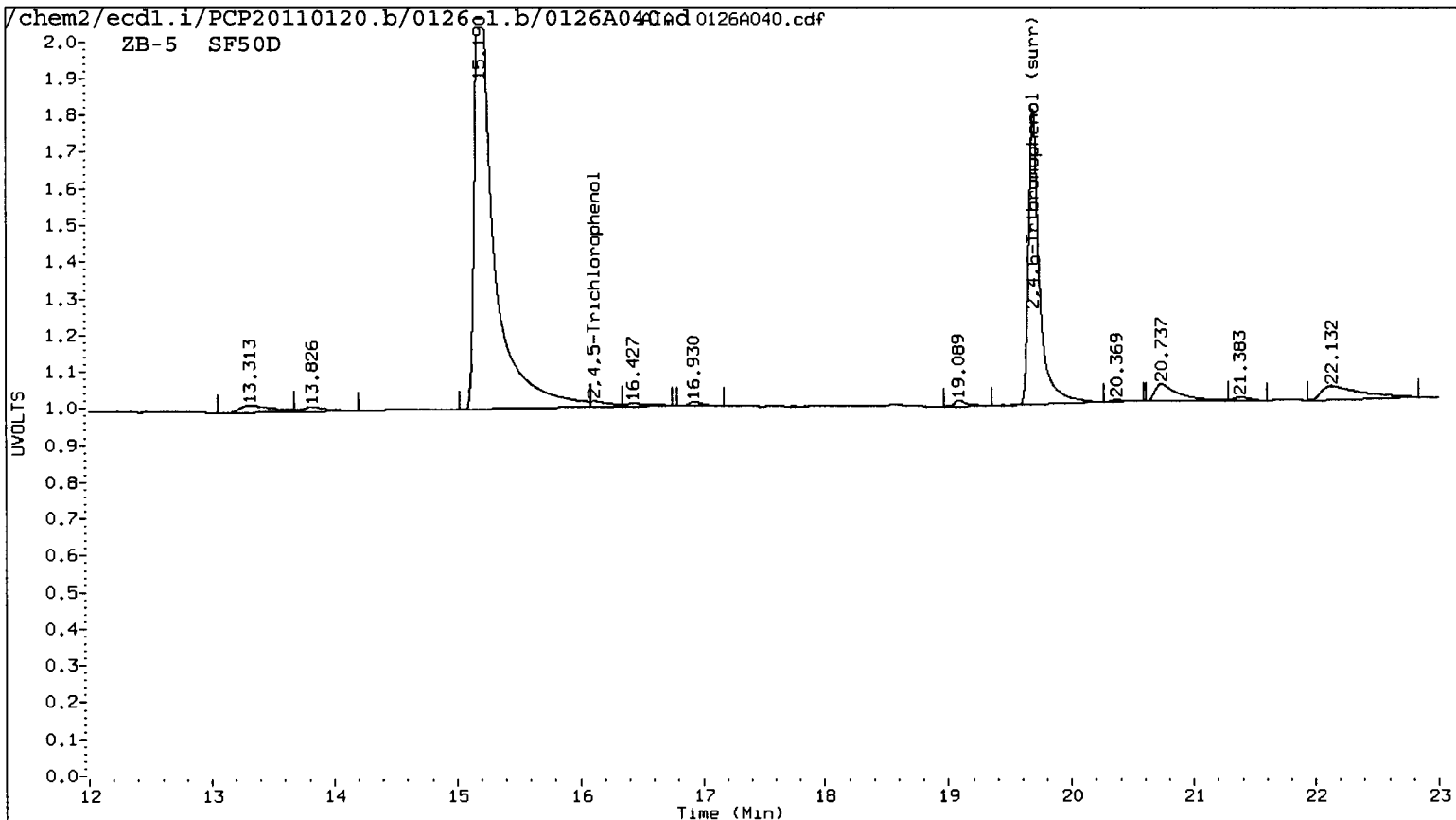
AR 1/27/2011

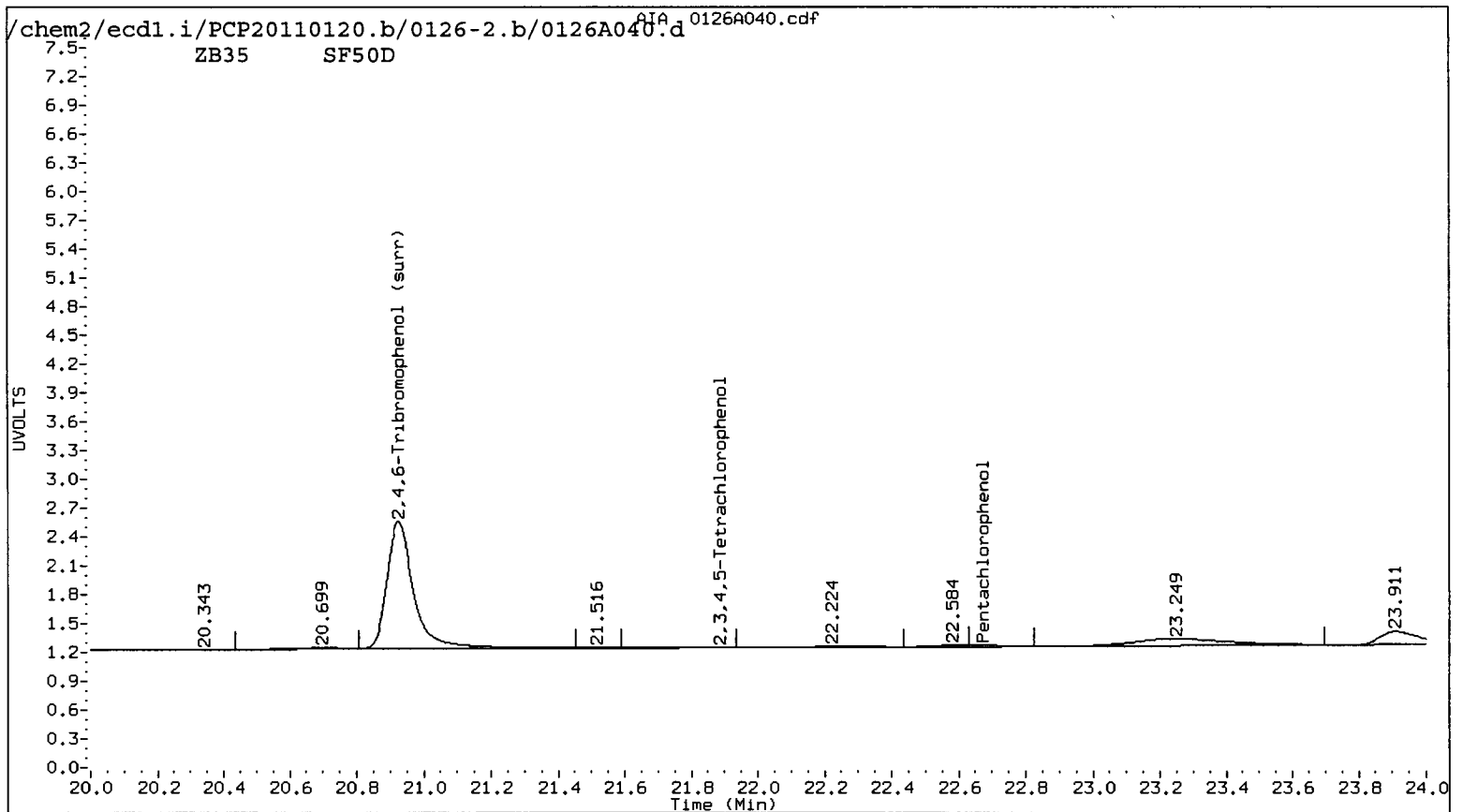
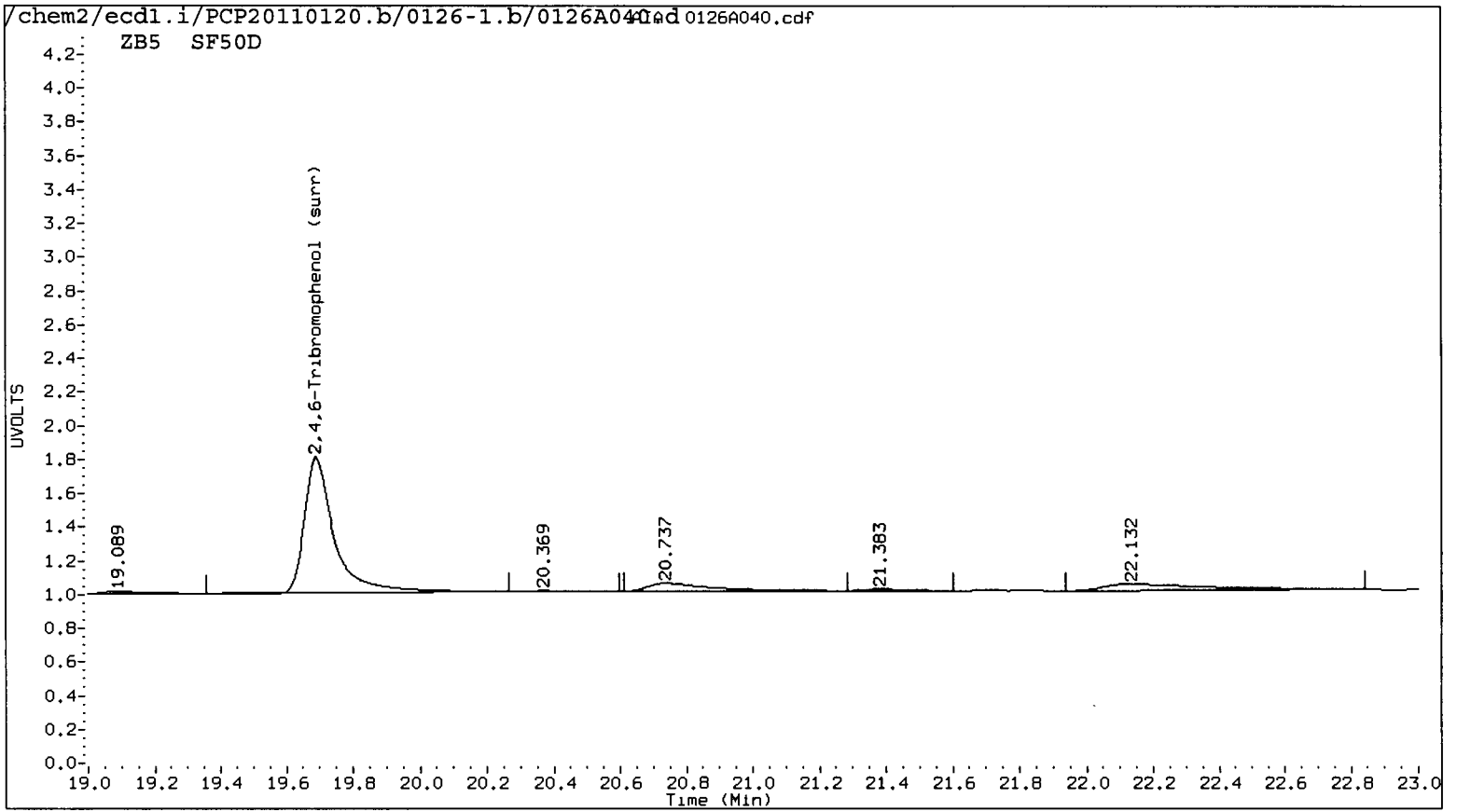
Data file 1: /chem2/ecdl.i/PCP20110120.b/0126-1.b/0126A040.d ARI ID: SF50D
 Data file 2: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A040.d Client ID: MW04-012011
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 27-JAN-2011 06:42
 Compound Sublist: all Report Date: 01/27/2011 12:44
 Instrument: 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		
----			22.674	0.012	5522	0.0000	0.2106	---	Pentachlorophenol
----			13.811	-0.006	595	0.0000	0.0403	---	2,4,6-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,6-Trichlorophenol
16.117	0.006	7957	----			1.6825	0.0000	---	2,4,5-Trichlorophenol
----			18.794	0.039	874	0.0000	0.0949	---	2,3,4-Trichlorophenol
----			18.499	0.048	1010	0.0000	0.0479	---	2,3,5,6-Tetrachlorophenol
----			21.890	0.044	2231	0.0000	0.1391	---	2,3,4,5-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,4-Dichlorophenol
19.690	0.031	250450	20.926	0.023	371400	19.4	18.6	4.6	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	77.7	74.2





Data File: /chem2/eod1.1/PCP20110120.b/0126-1.b/0126A040.d

Date : 27-JAN-2011 06:42

Client ID: MM04-012011

Sample Info: SF50D

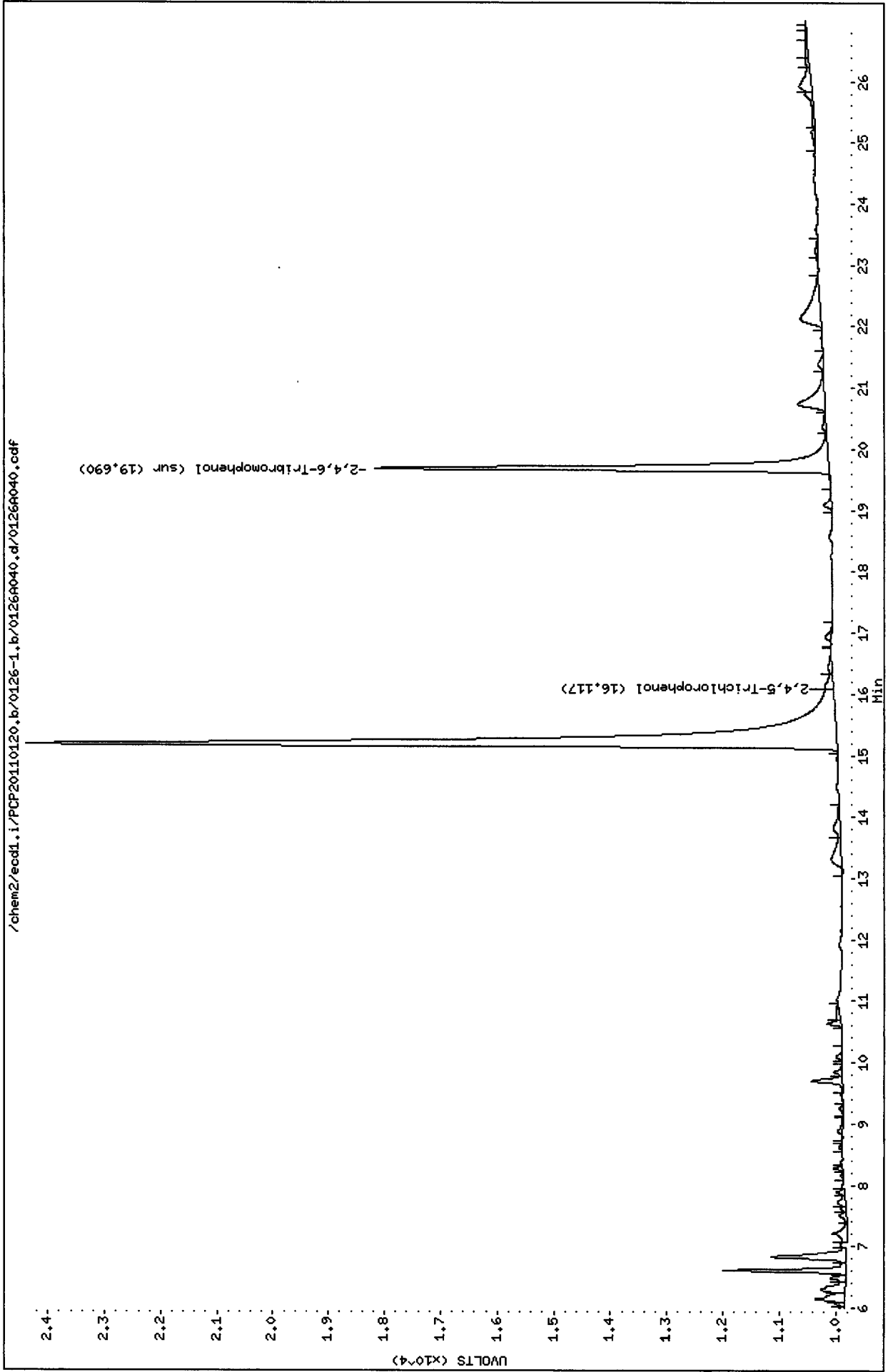
Purge Volume: 2.0

Column phase: ZB5

Instrument: eod1.1

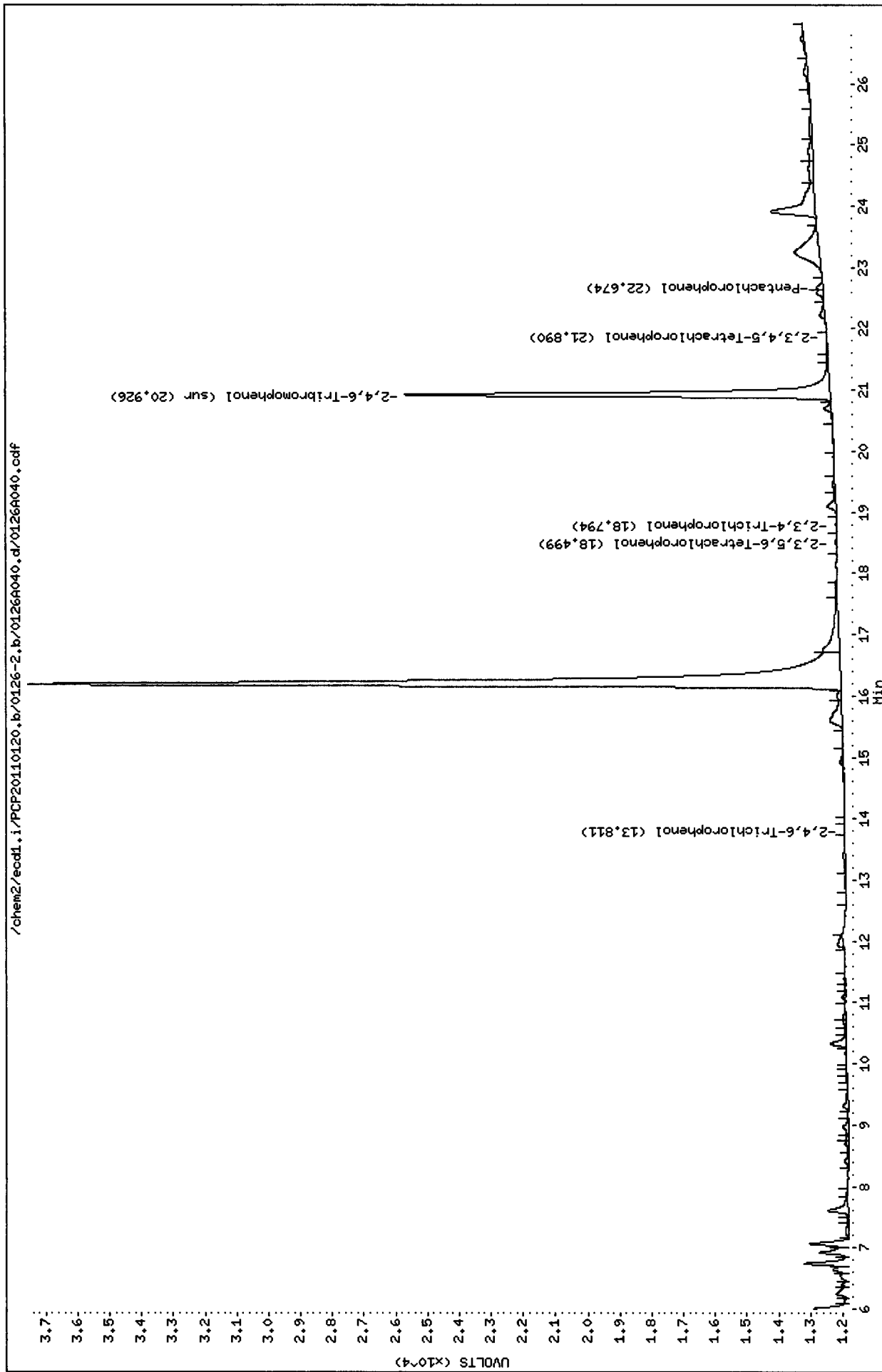
Operator: ar

Column diameter: 0.53



Data File: /chem2/ecdl1.i/PCP20110120.b/0126-2.b/0126A040.d
Date : 27-JAN-2011 06:42
Client ID: HM04-012011
Sample Info: SF50D
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecdl1.i
Operator: ar
Column diameter: 0.53



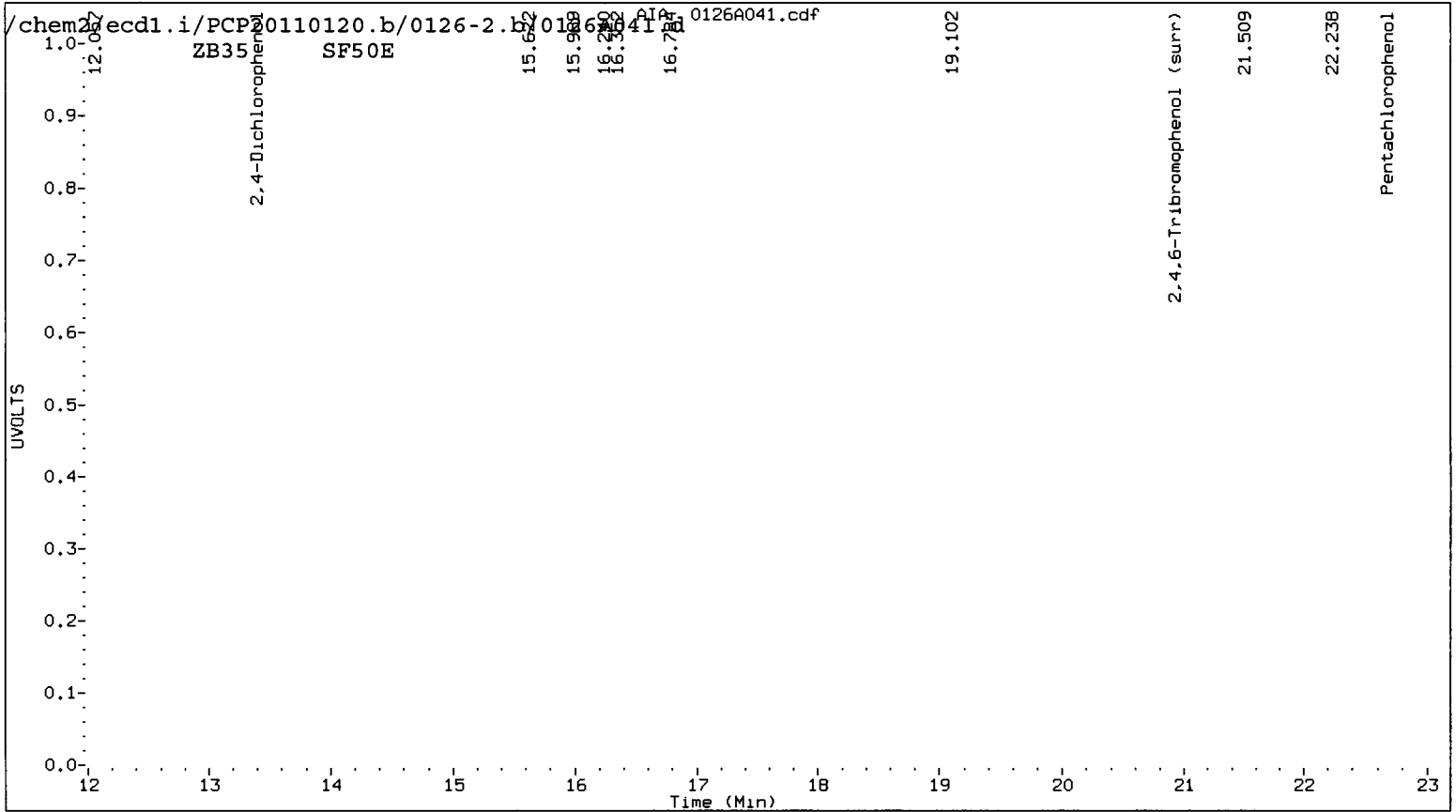
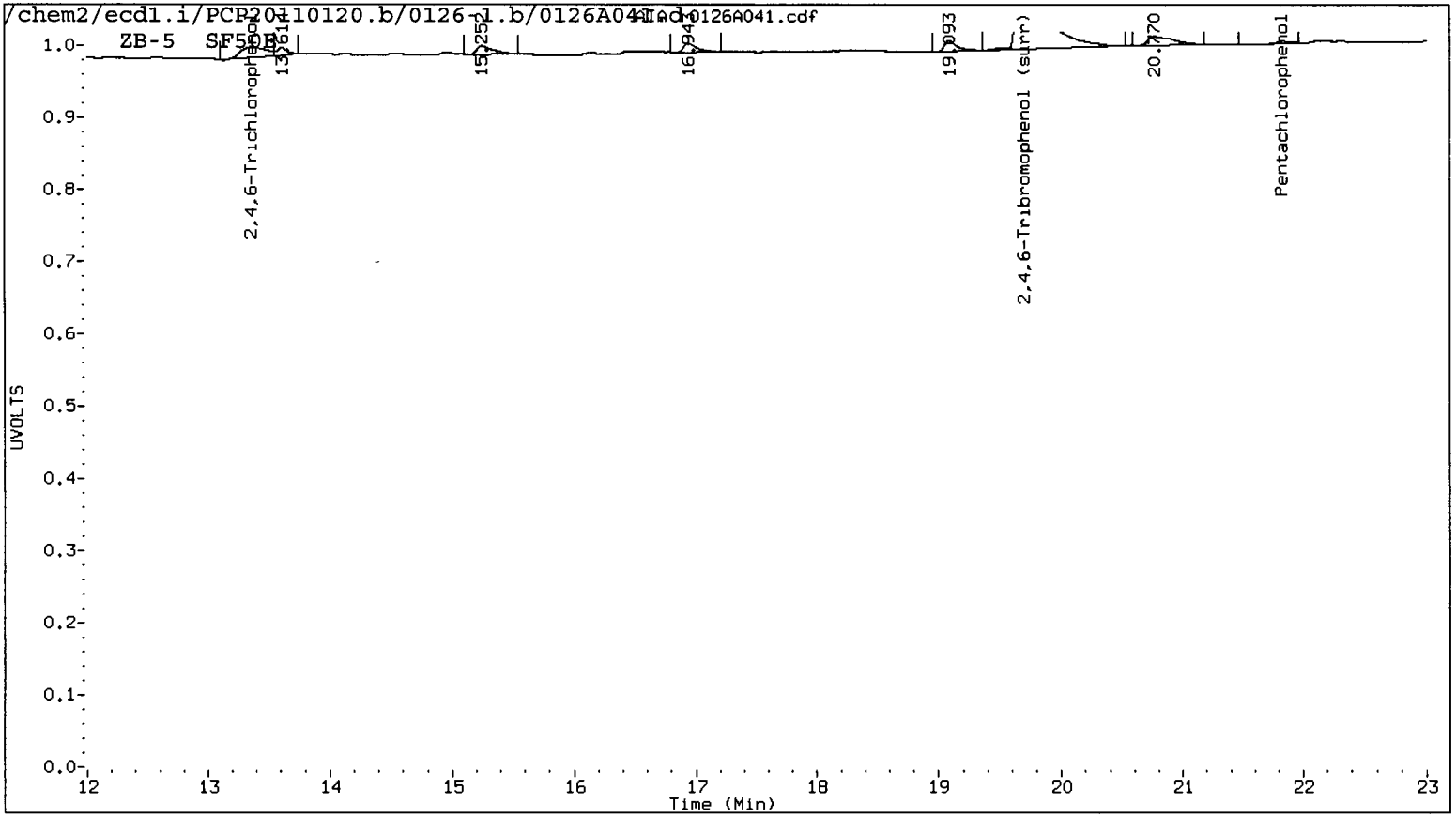
Analytical Resources Inc.
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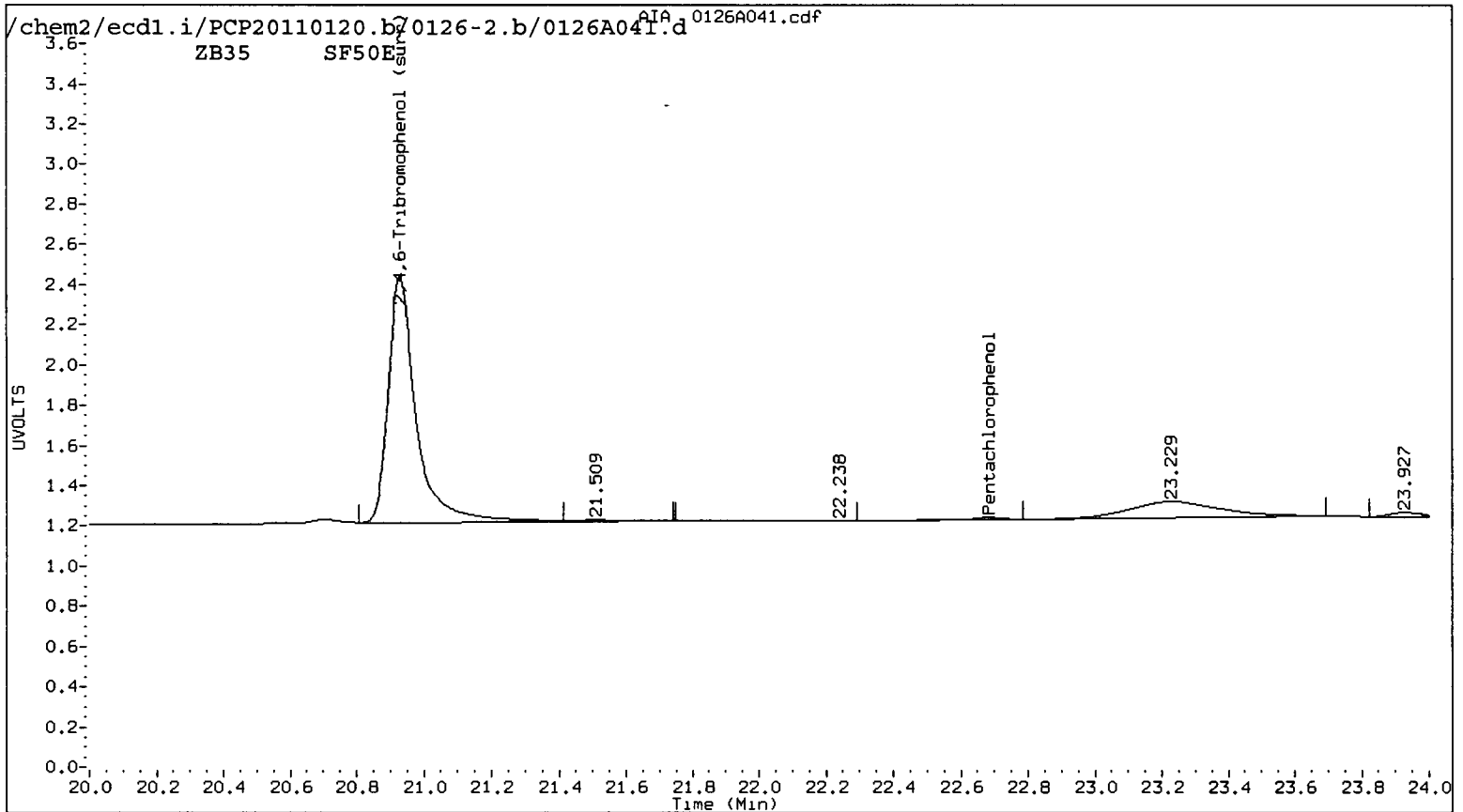
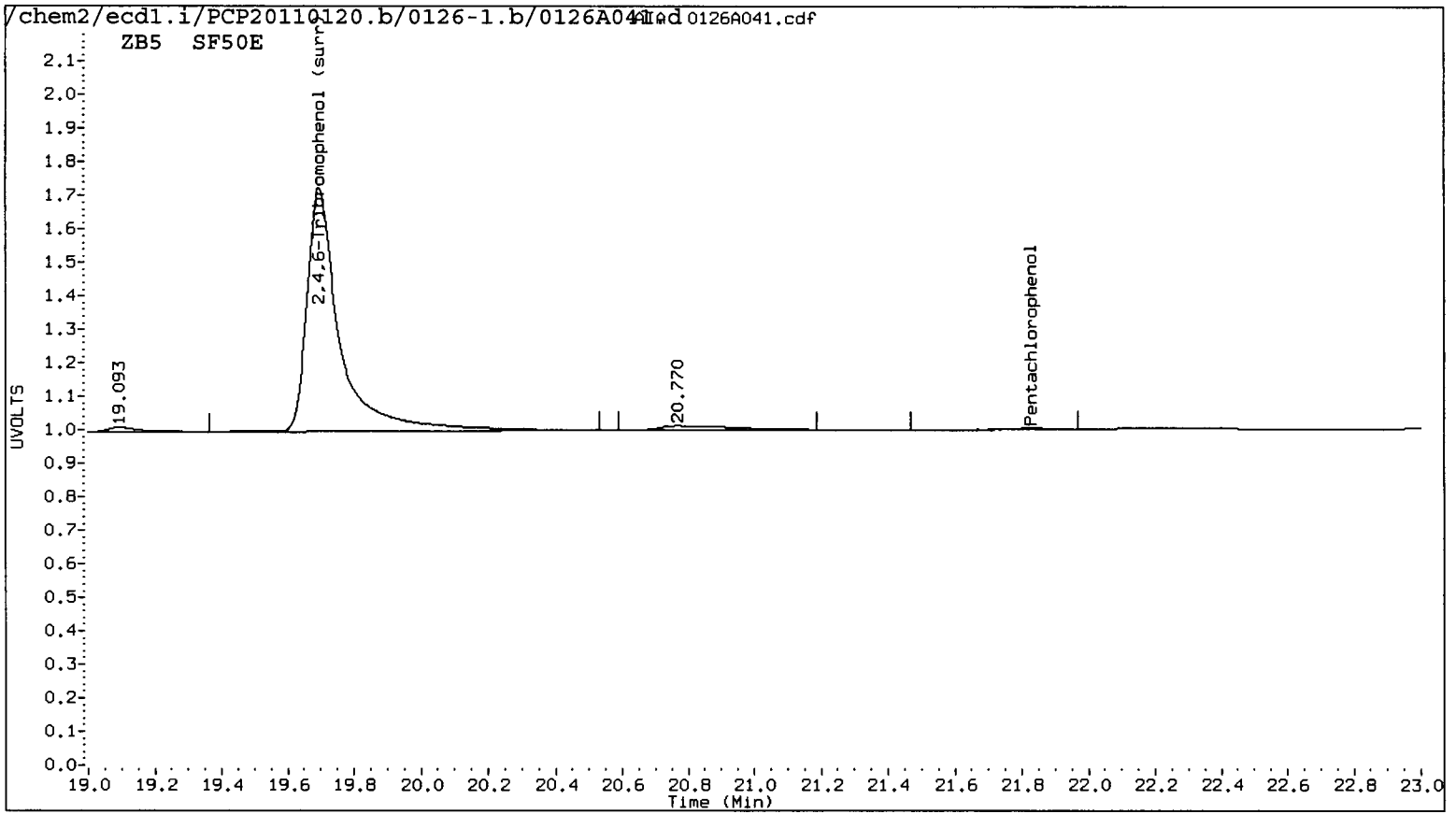
Data file 1: /chem2/ecdl.i/PCP20110120.b/0126-1.b/0126A041.d ARI ID: SF50E AR 1/27/2011
 Data file 2: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A041.d Client ID: MW17-012011
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 27-JAN-2011 07:19
 Compound Sublist: all Report Date: 01/27/2011 12:44
 Instrument: ecd1.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		
21.828	0.030	368	22.684	0.022	3016	0.0227	0.1150	134.1*	Pentachlorophenol
13.361	-0.069	9587	----			0.9006	0.0000	---	2,4,6-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,6-Trichlorophenol
----			----			0.0000	0.0000	---	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,5,6-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,3,4,5-Tetrachlorophenol
----			13.401	-0.067	2540	0.0000	2.5523	---	2,4-Dichlorophenol
19.696	0.036	249163	20.929	0.027	350253	19.3	17.5	10.0	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	77.3	70.0





SF26:01070

Data File: /chem2/ecdl.i/PCP20110120.b/0126-1.b/0126A041.d

Date : 27-JAN-2011 07:19

Client ID: MM17-012011

Sample Info: SF50E

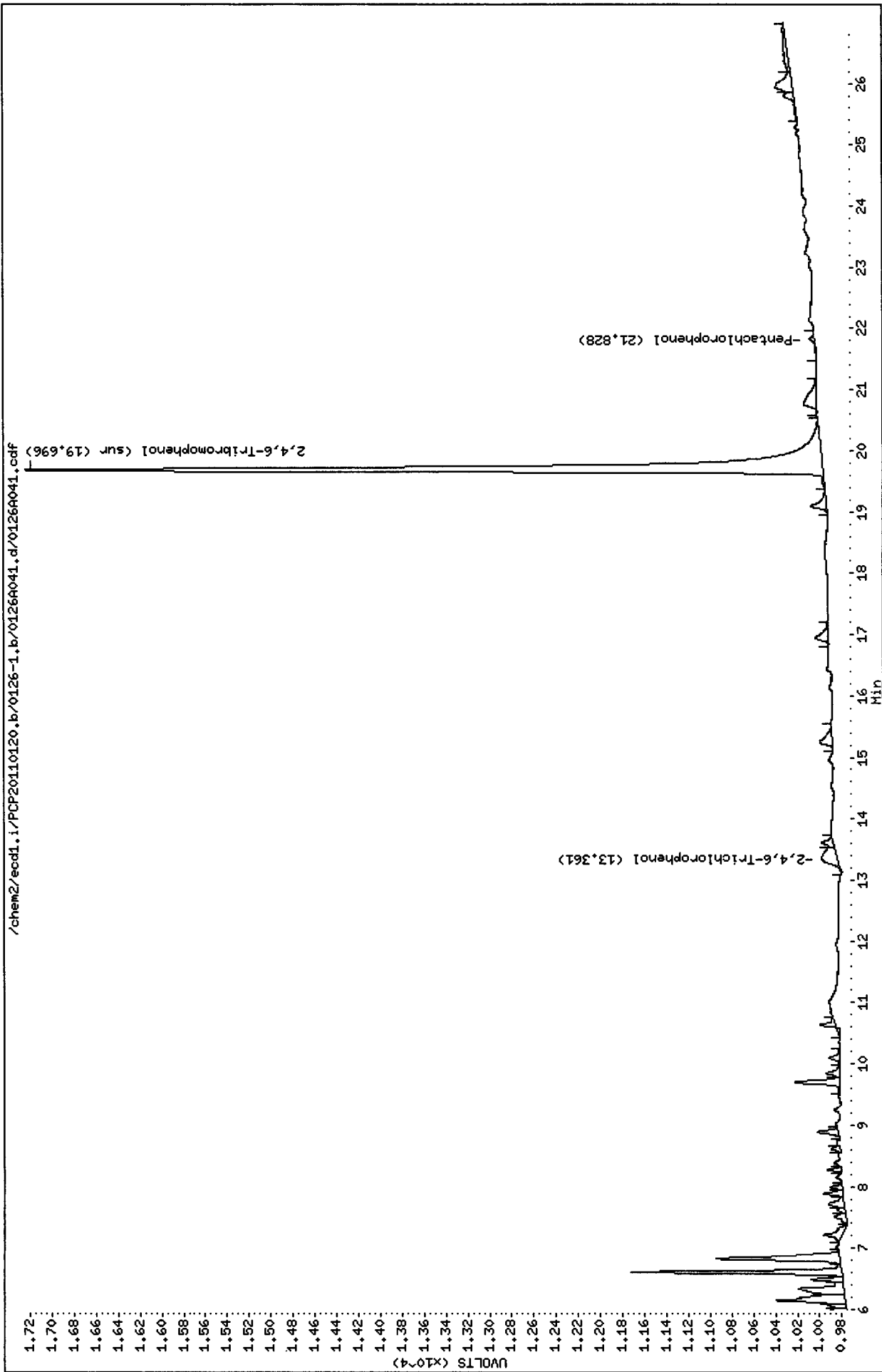
Purge Volume: 2.0

Column phase: ZB5

Instrument: ecd1.i

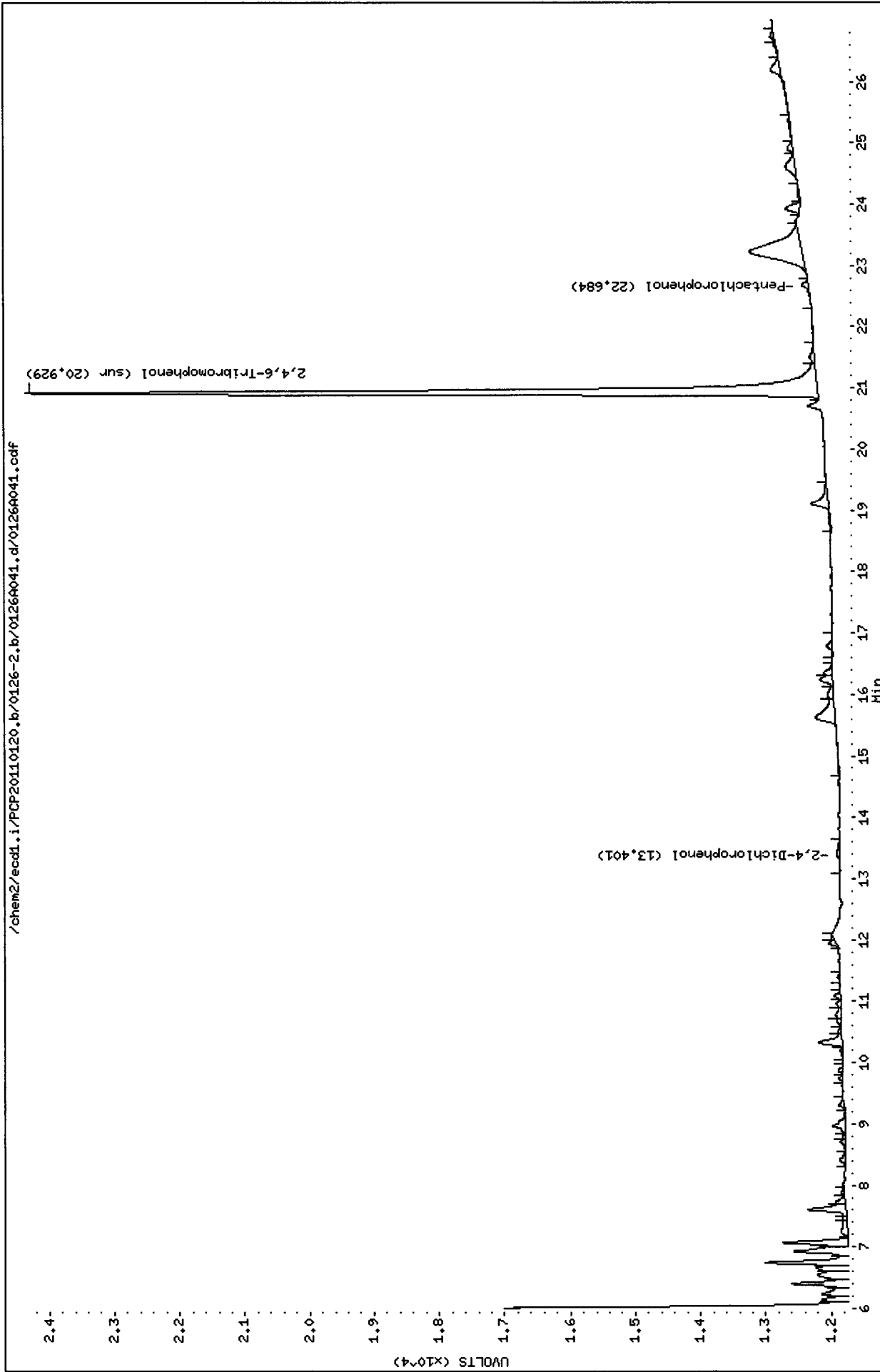
Operator: ar

Column diameter: 0.53



Data File: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A041.d
Date : 27-JAN-2011 07:19
Client ID: MM17-012011
Sample Info: SFS0E
Purge Volume: 2.0
Column phase: ZB35

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



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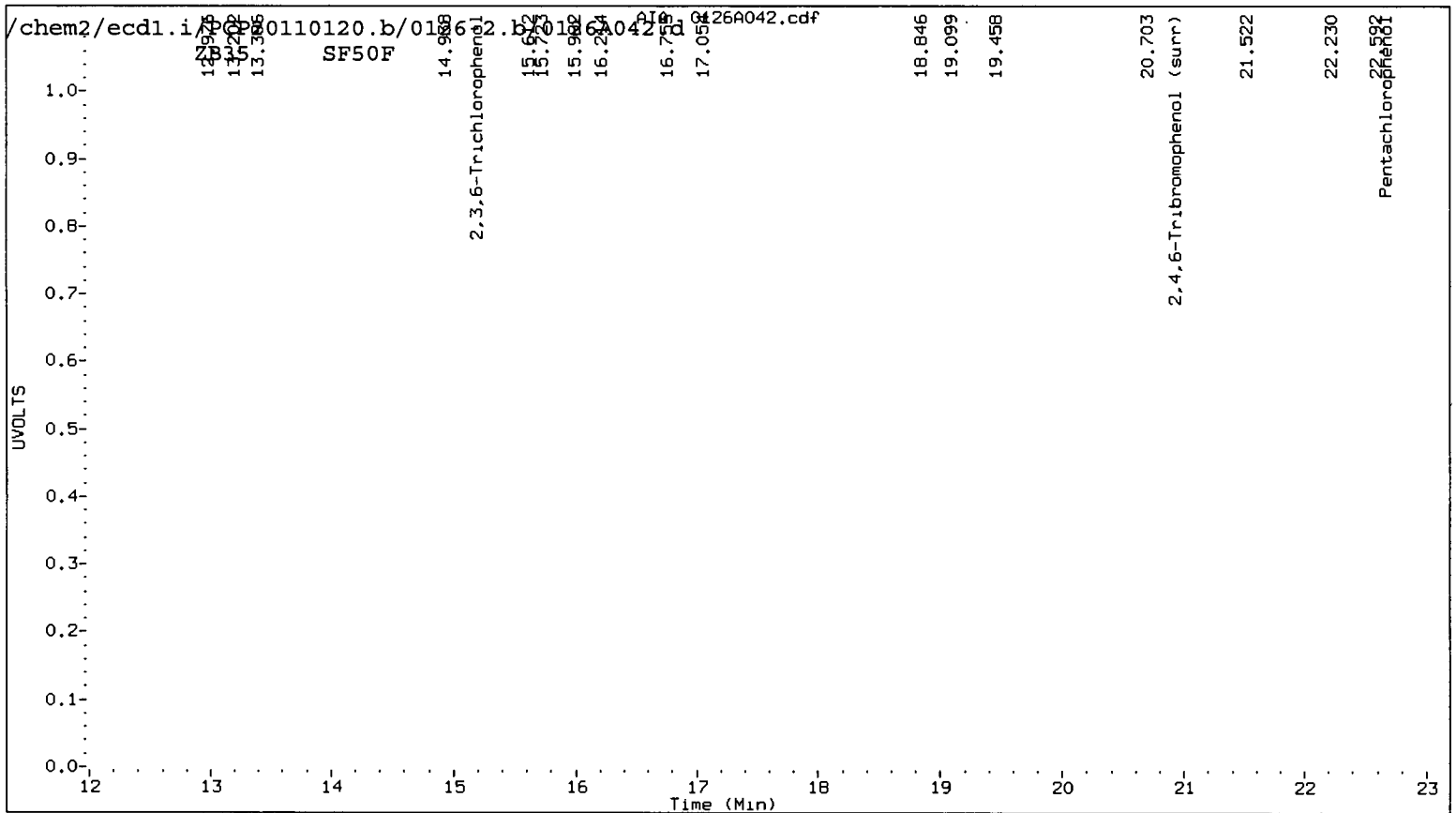
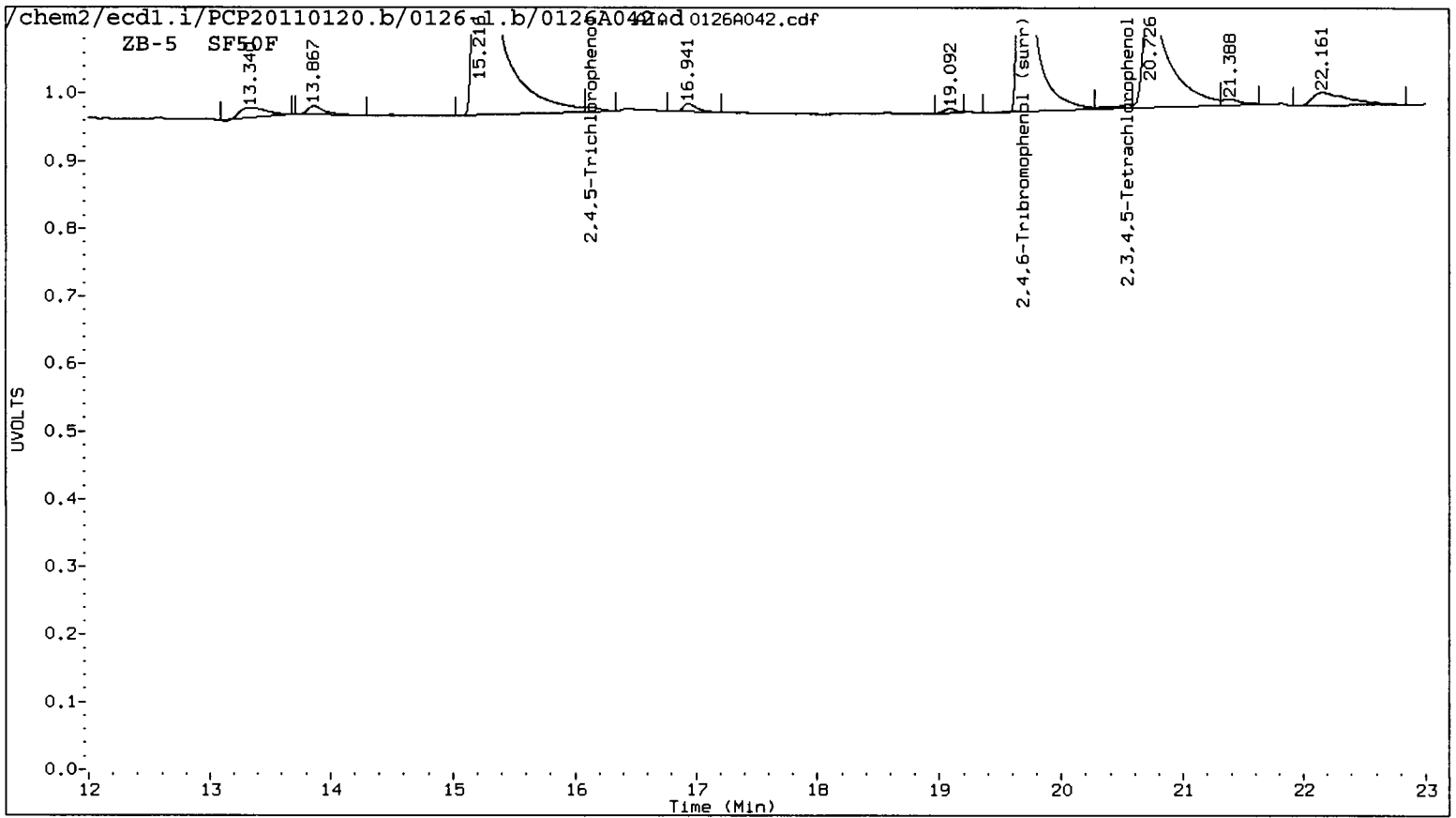
AR1/27/2011

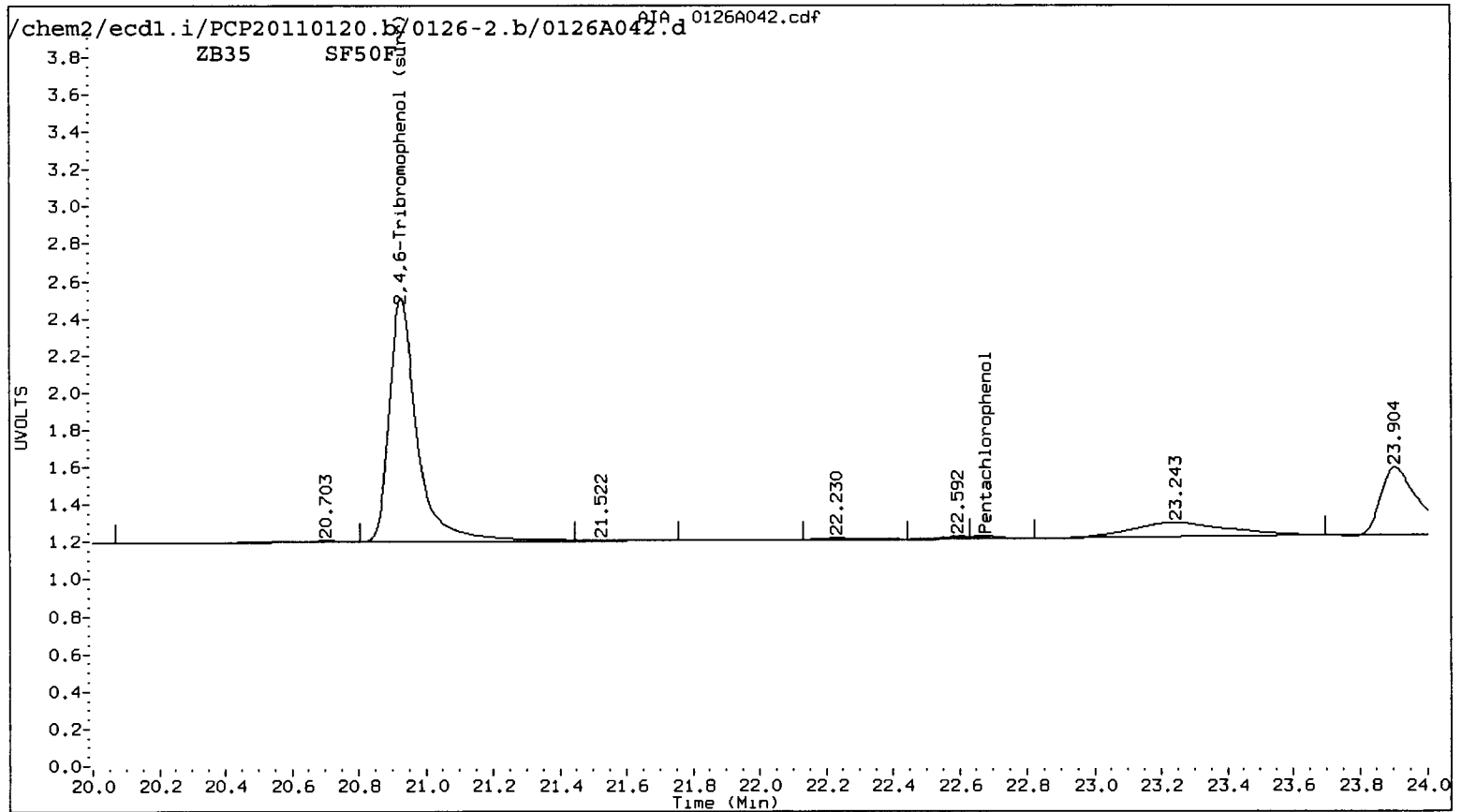
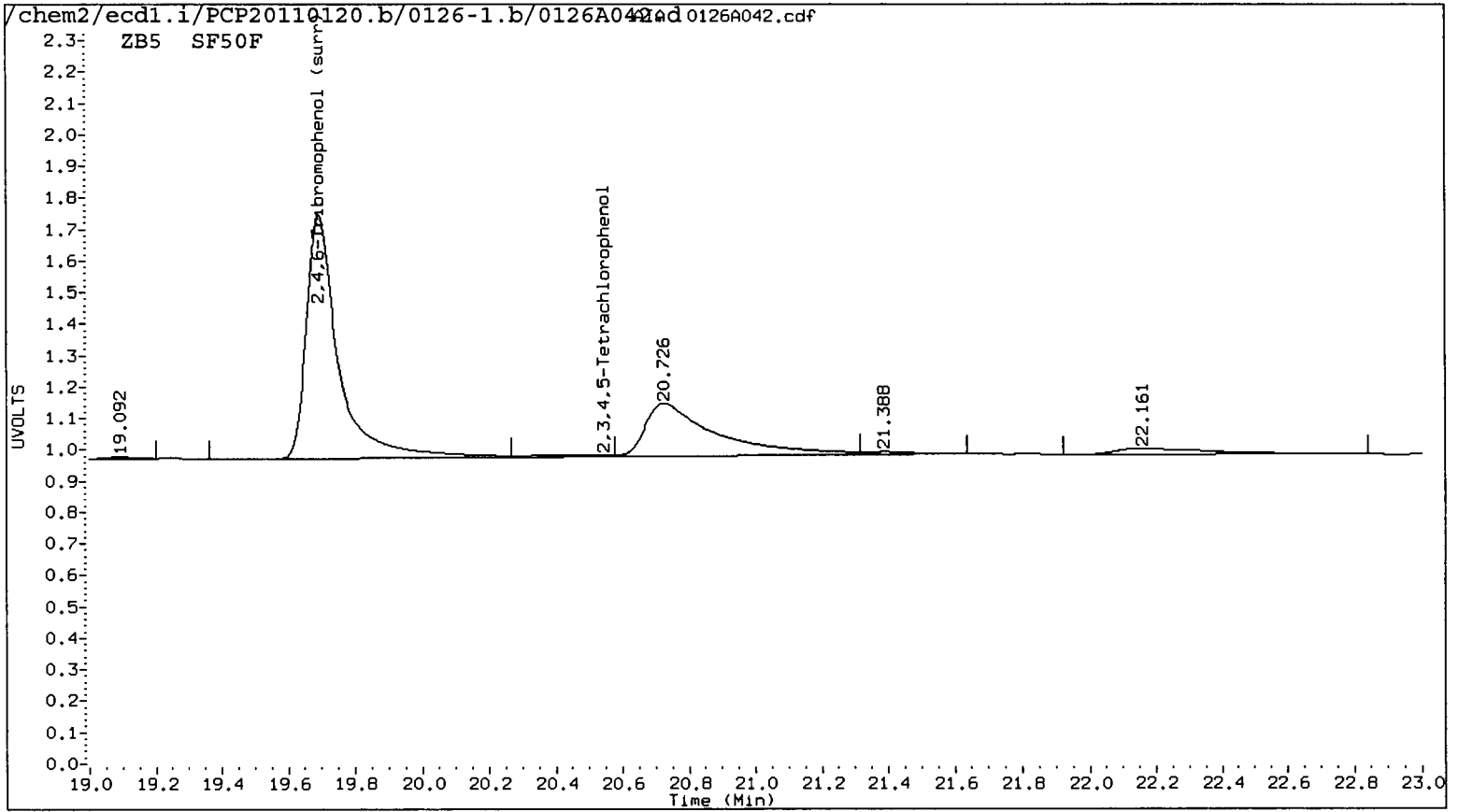
Data file 1: /chem2/ecdl.i/PCP20110120.b/0126-1.b/0126A042.d ARI ID: SF50F
 Data file 2: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A042.d Client ID: MW03-012011
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 27-JAN-2011 07:55
 Compound Sublist: all Report Date: 01/27/2011 12:44
 Instrument: ecd1.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		
----			22.676	0.014	3716	0.0000	0.1418 <i>RV</i>	---	Pentachlorophenol
----			----			0.0000	0.0000	---	2,4,6-Trichlorophenol
----			15.192	-0.031	578	0.0000	0.0421	---	2,3,6-Trichlorophenol
16.134	0.024	2585	----			0.5466	0.0000	---	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,5,6-Tetrachlorophenol
20.546	-0.002	3709	----			0.3499	0.0000	---	2,3,4,5-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,4-Dichlorophenol
19.693	0.033	256210	20.927	0.025	376032	19.9	18.8	5.7	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	79.5	75.1





Data File: /chem2/ecdl1.i/PCP20110120.b/0126-1.b/0126A042.d

Date : 27-JAN-2011 07:55

Client ID: MN03-012011

Sample Info: SF50F

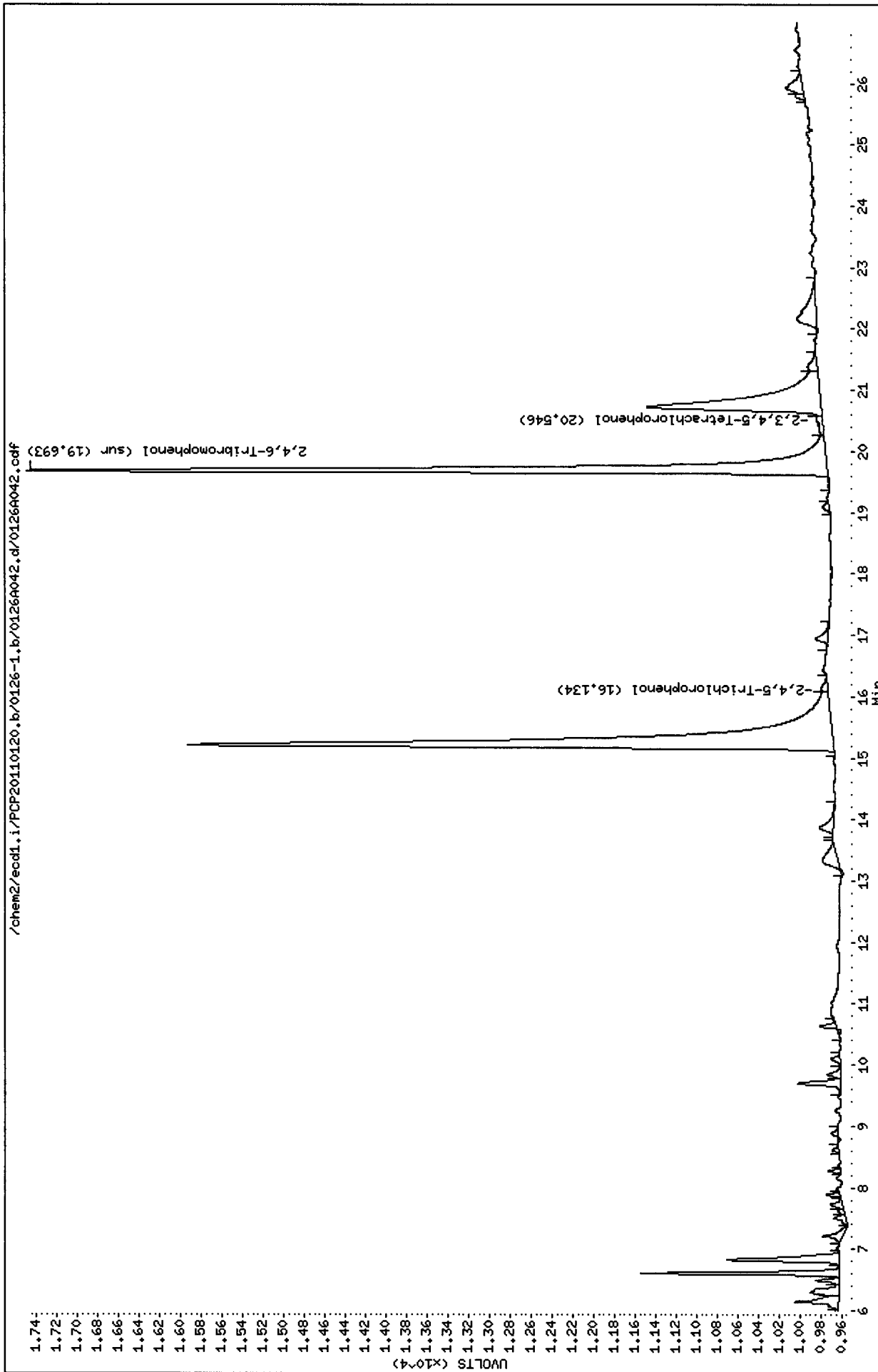
Purge Volume: 2.0

Column phase: ZB5

Instrument: ecdl1.i

Operator: ar

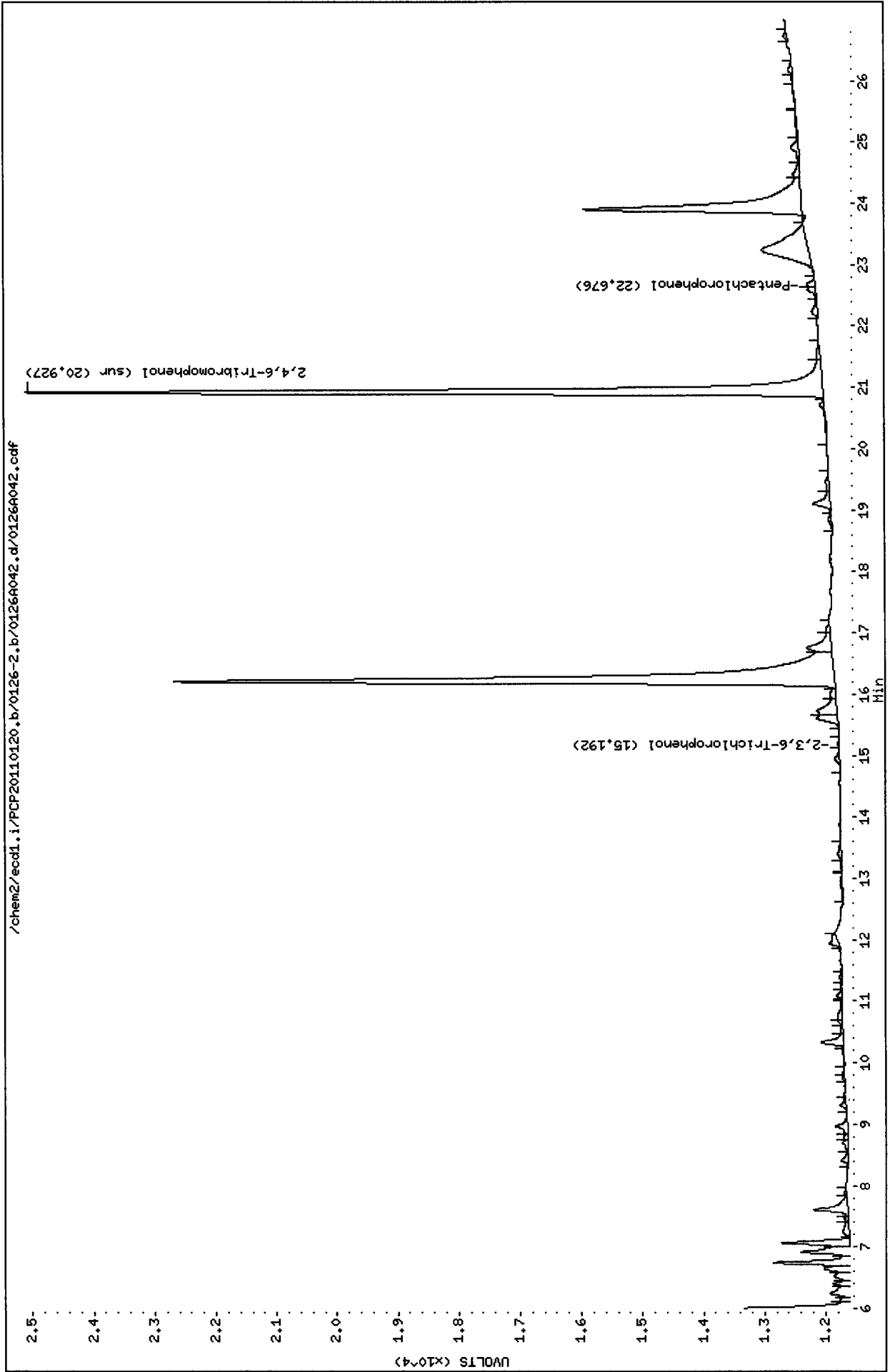
Column diameter: 0.53



Data File: /chem2/ecdl1.i/PCP20110120.b/0126-2.b/0126A042.d
Date : 27-JAN-2011 07:55
Client ID: MM03-012011
Sample Info: SFS0F
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecdl1.i

Operator: ar
Column diameter: 0.53



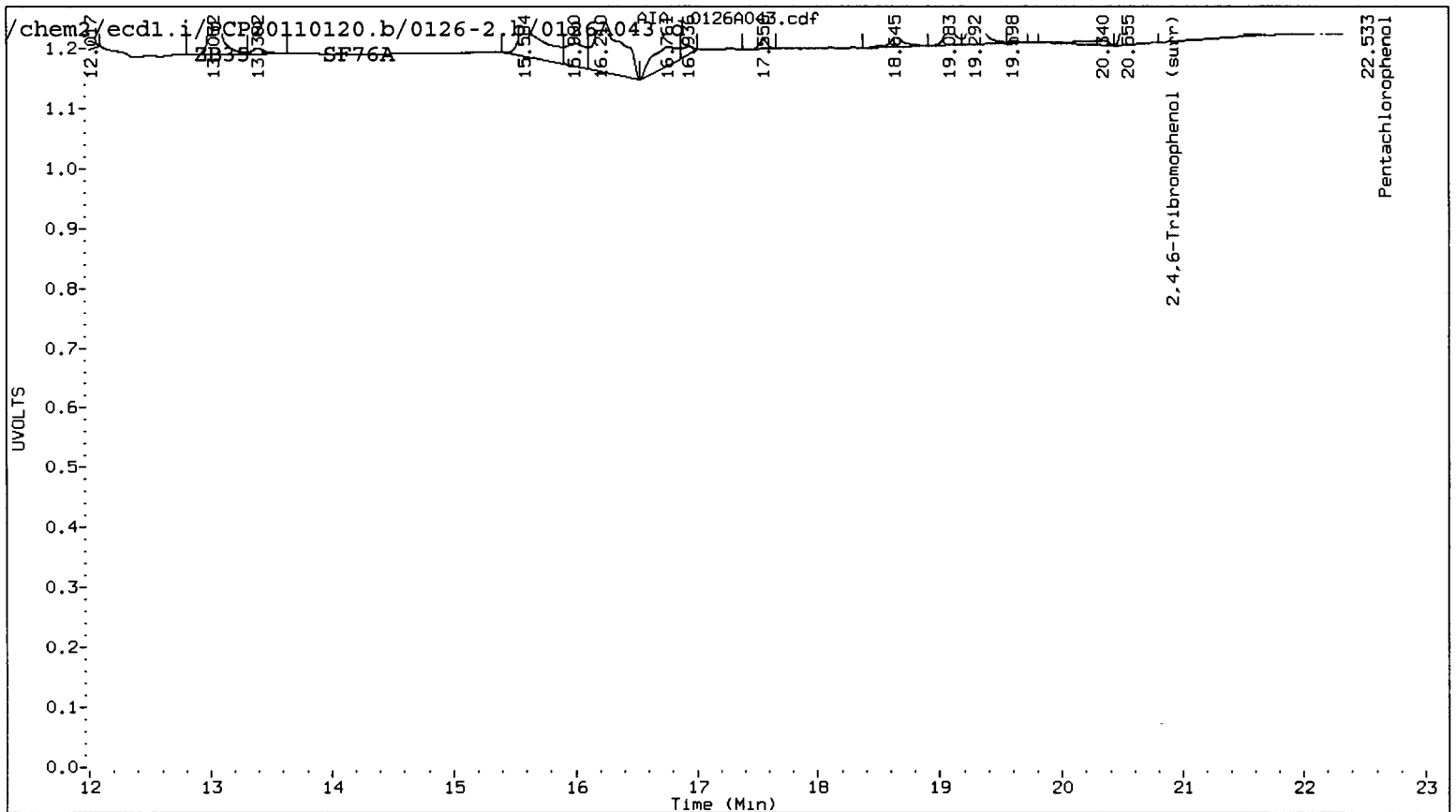
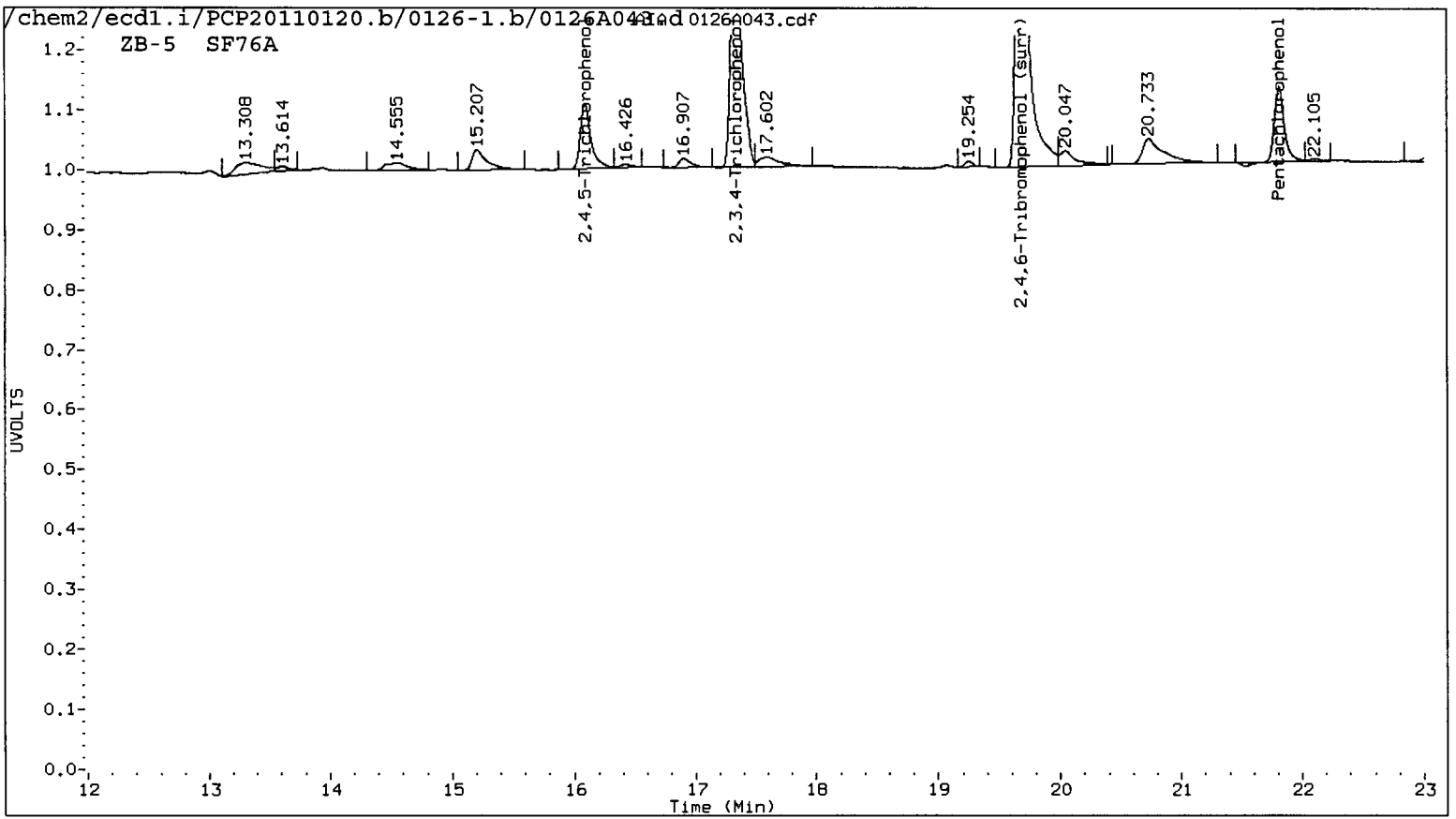
Analytical Resources Inc.
 Dual Column 8041 Chlorinated Phenols Quantitation Report

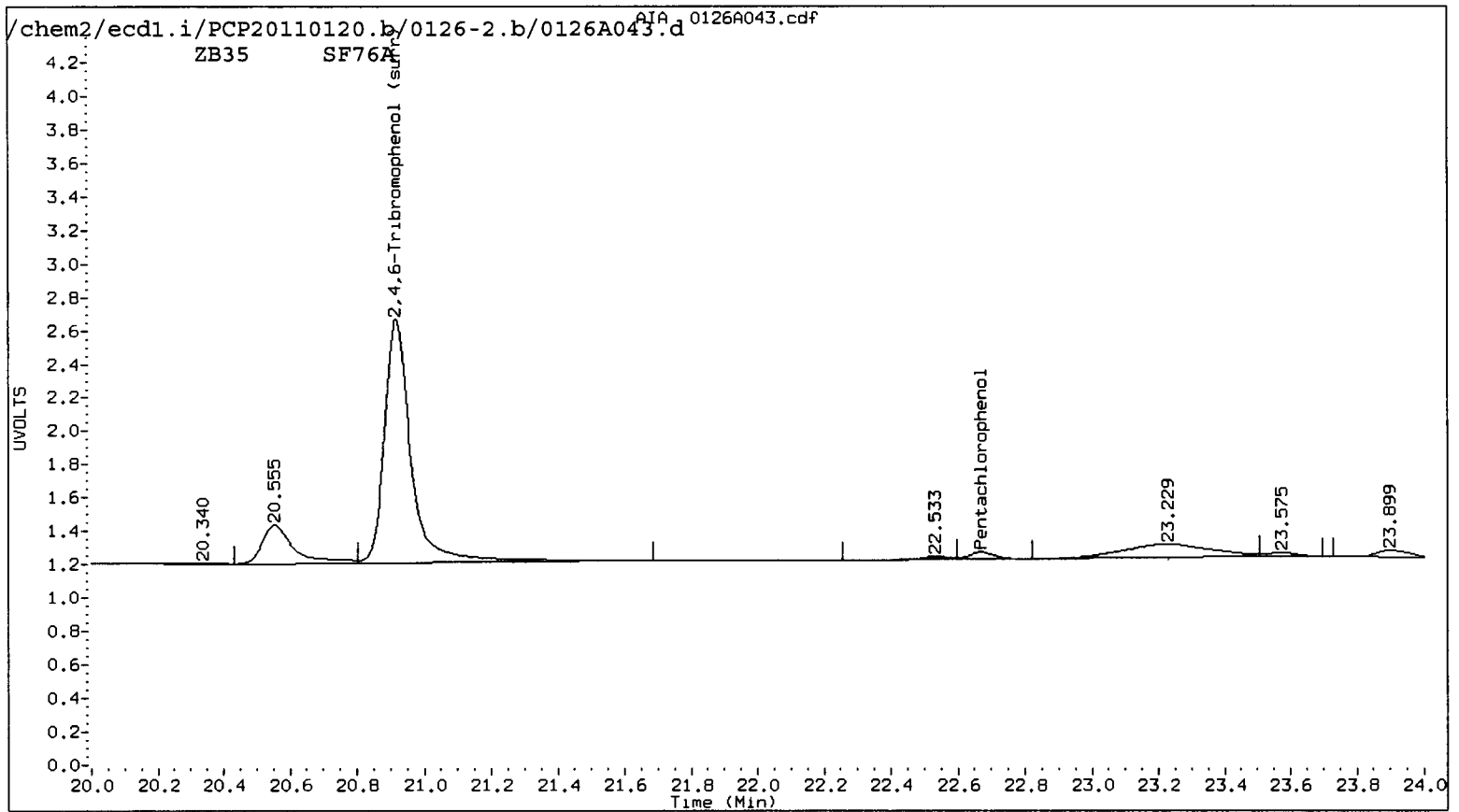
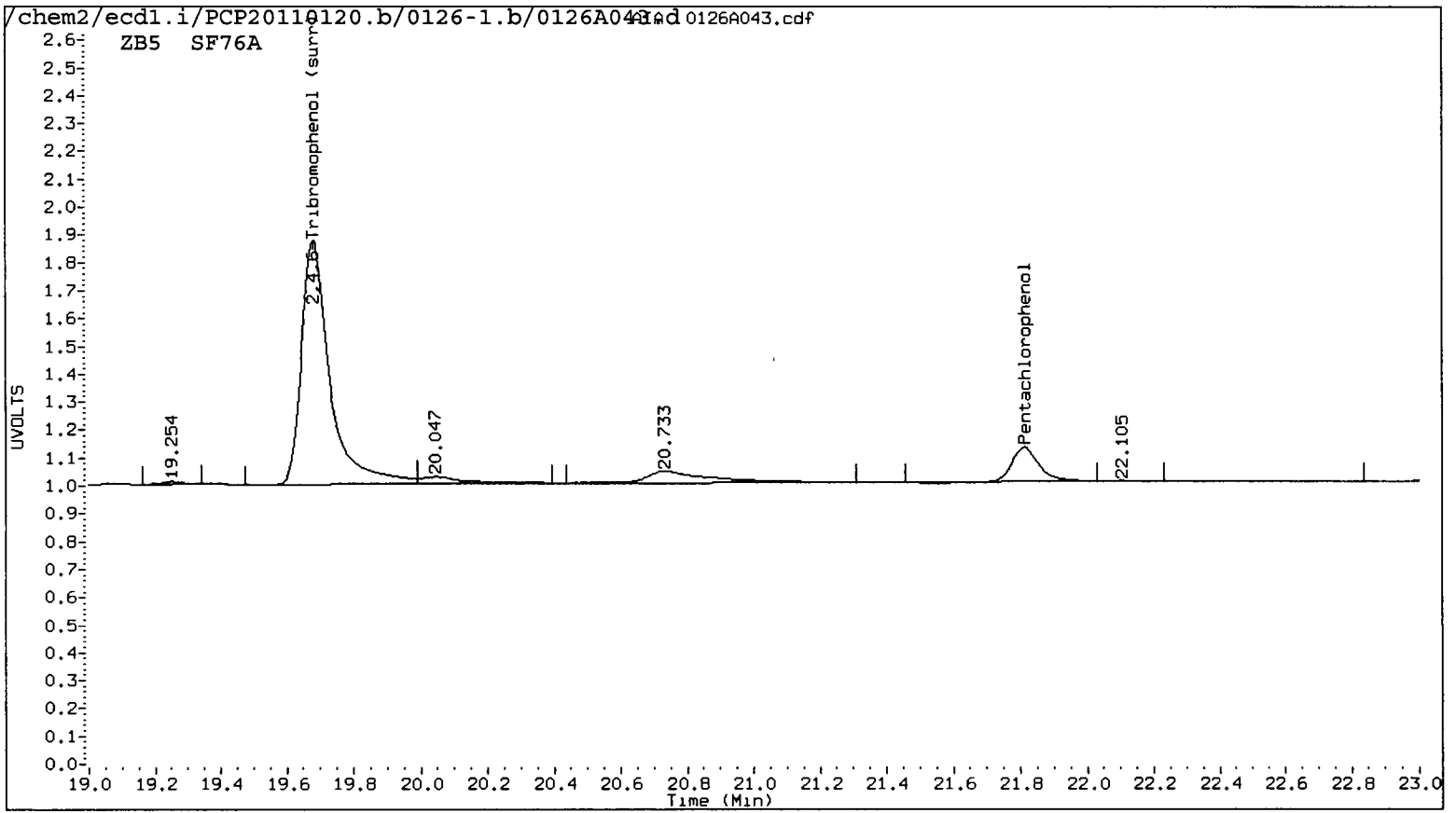
Data file 1: /chem2/ecdl.i/PCP20110120.b/0126-1.b/0126A043.d ARI ID: SF76A AR 1/27/2011
 Data file 2: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A043.d Client ID: MW-15-012111
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 27-JAN-2011 08:31
 Compound Sublist: all Report Date: 01/27/2011 12:44
 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		
21.812	0.014	34190	22.670	0.008	10981	2.1076	0.4188	133.7*	Pentachlorophenol
----			----			0.0000	0.0000	---	2,4,6-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,6-Trichlorophenol
16.090	-0.020	32901	----			6.9568	0.0000	---	2,4,5-Trichlorophenol
17.335	-0.020	122508	----			19.3238	0.0000	---	2,3,4-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,5,6-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,3,4,5-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,4-Dichlorophenol
19.681	0.021	256663	20.918	0.016	402542	19.9	20.1	1.0	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	79.7	80.4





Data File: /chem2/ecd1.i/PCP20110120.b/0126-1.b/0126A043.d

Date : 27-JAN-2011 08:31

Client ID: MM-15-012111

Sample Info: SF76A

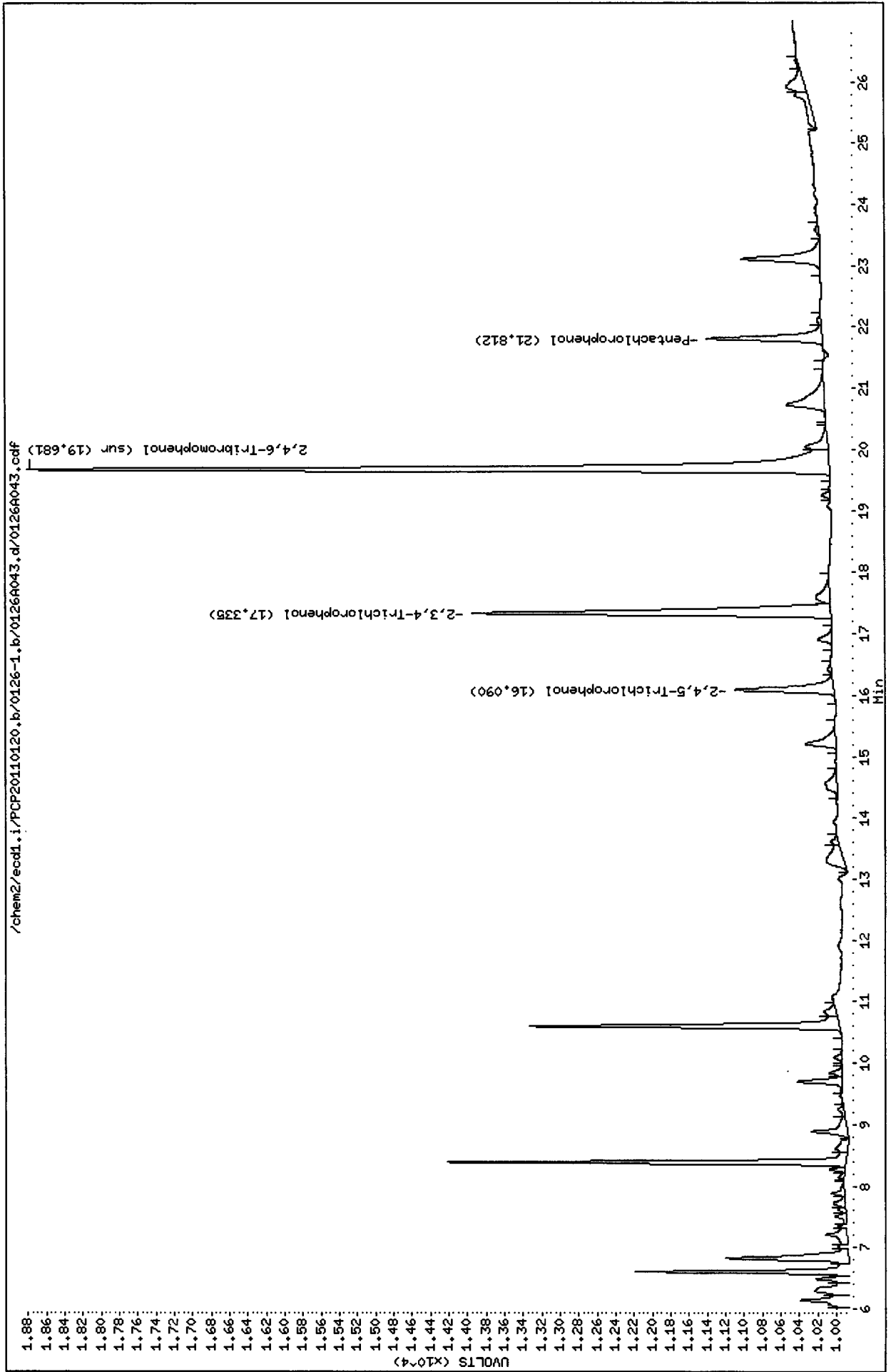
Purge Volume: 2.0

Column phase: ZB5

Instrument: ecd1.i

Operator: ar

Column diameter: 0.53

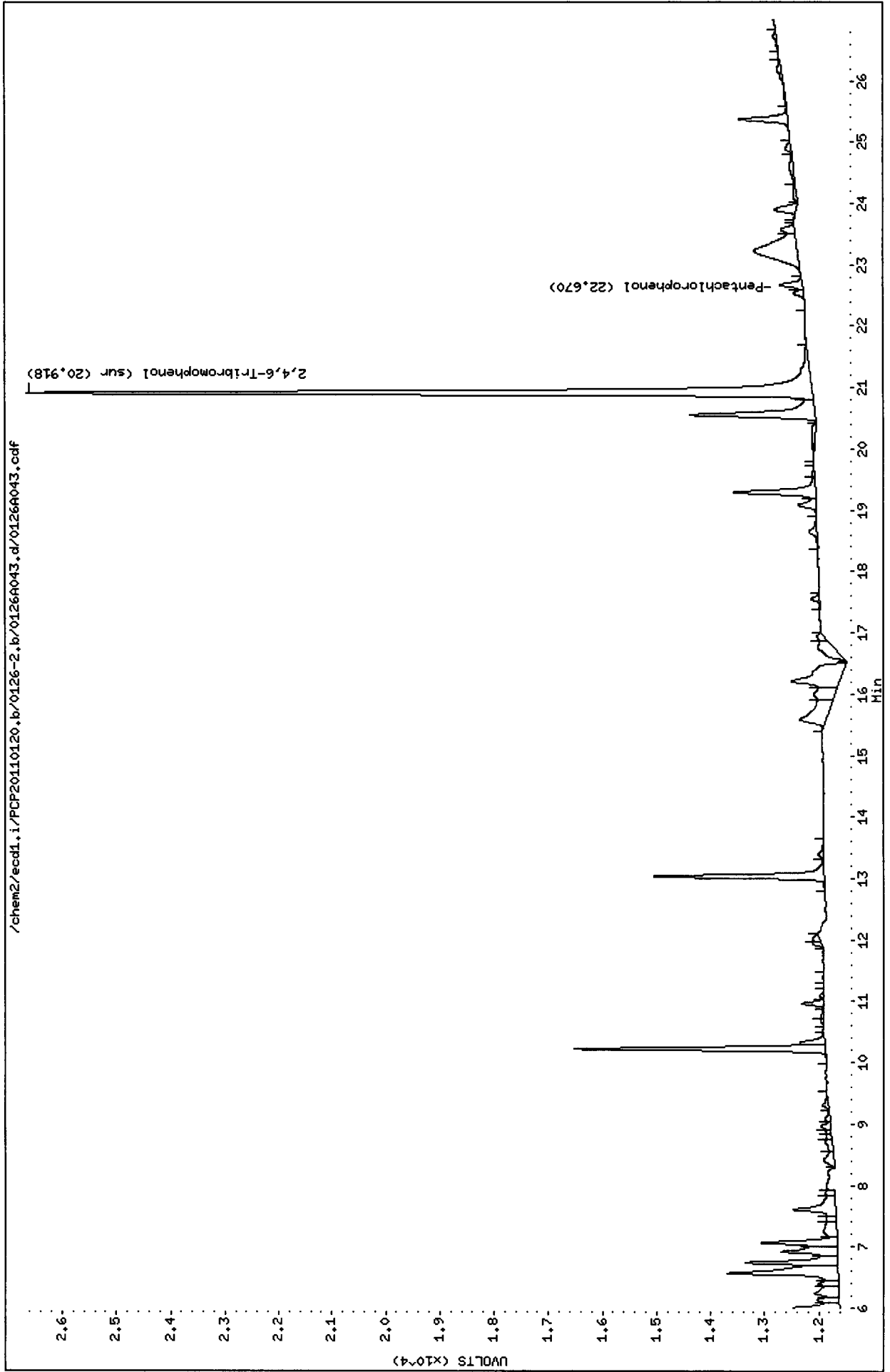


SF26 : 01001

Data File: /chem2/ecd1.i/PCP20110120.b/0126-2.b/0126A043.d
Date : 27-JAN-2011 08:31
Client ID: MM-15-012111
Sample Info: SF76A
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecd1.i

Operator: ar
Column diameter: 0.53



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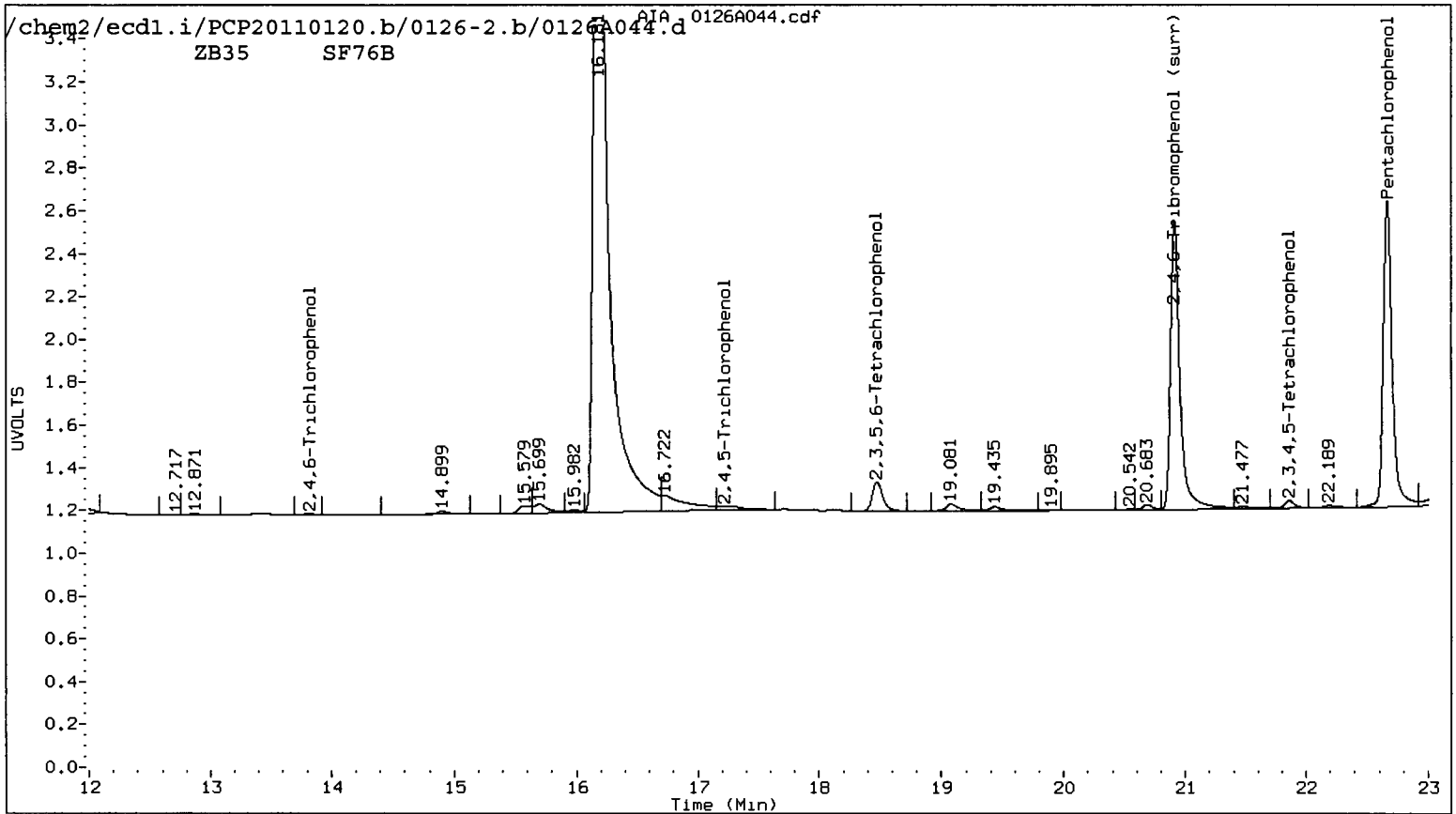
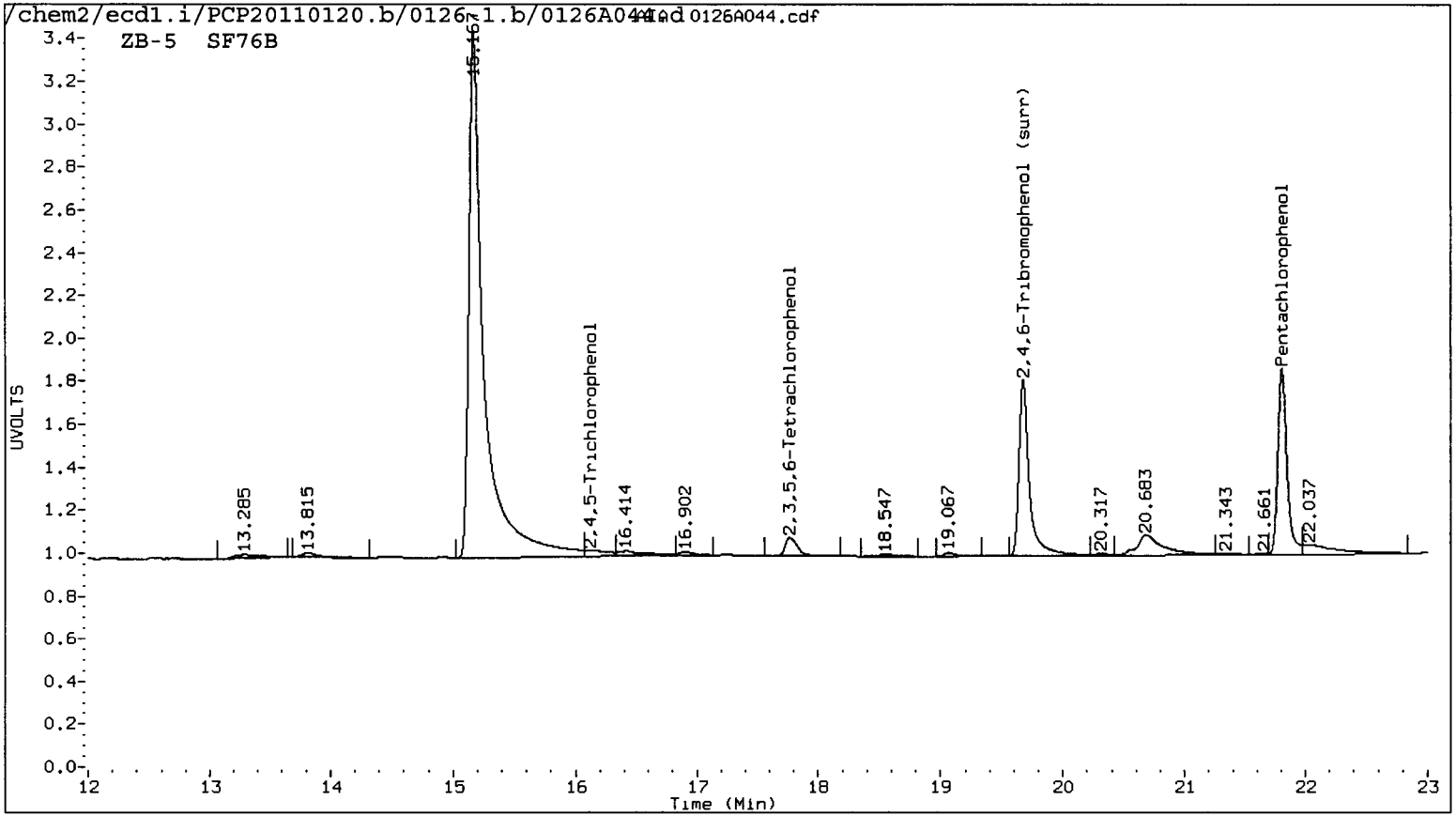
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 Data file 2: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A044.d Client ID: MW-05-012111
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 27-JAN-2011 09:07
 Compound Sublist: all Report Date: 01/27/2011 12:44
 Instrument: ecd1.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

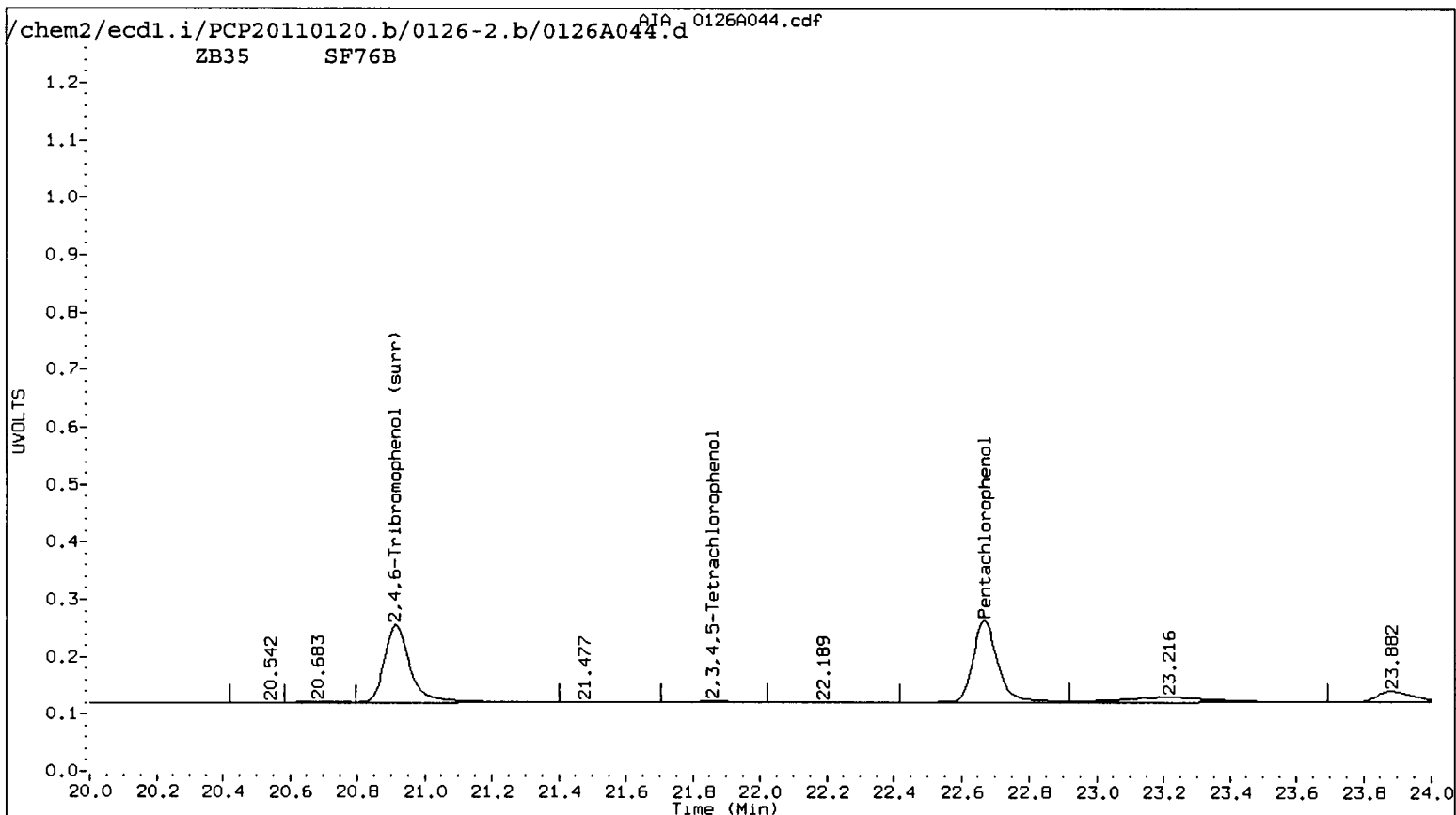
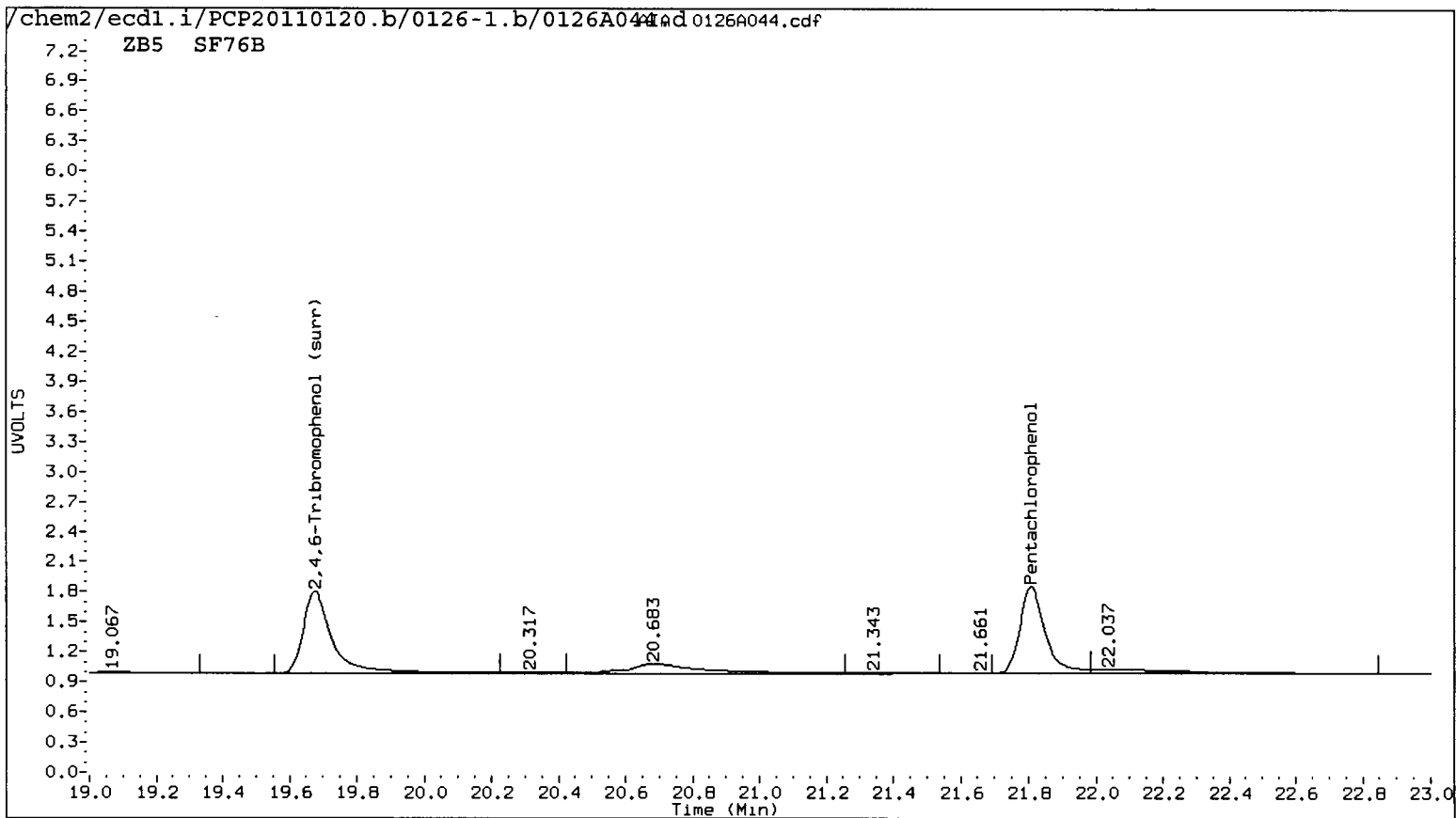
AR 1/27/2011

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
21.808	0.009	228133	22.669	0.007	365315	14.0628	13.9324	0.9	Pentachlorophenol
----			13.820	0.003	755	0.0000	0.0512	---	2,4,6-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,6-Trichlorophenol
16.119	0.008	17502	17.225	0.033	14282	3.7007	1.7732	70.4*	2,4,5-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,4-Trichlorophenol
17.764	0.024	29148	18.474	0.023	39842	2.0898	1.8887	10.1	2,3,5,6-Tetrachlorophenol
----			21.860	0.014	10583	0.0000	0.6596	---	2,3,4,5-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,4-Dichlorophenol
19.676	0.016	247981	20.915	0.012	369578	19.2	18.5	4.1	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	77.0	73.9

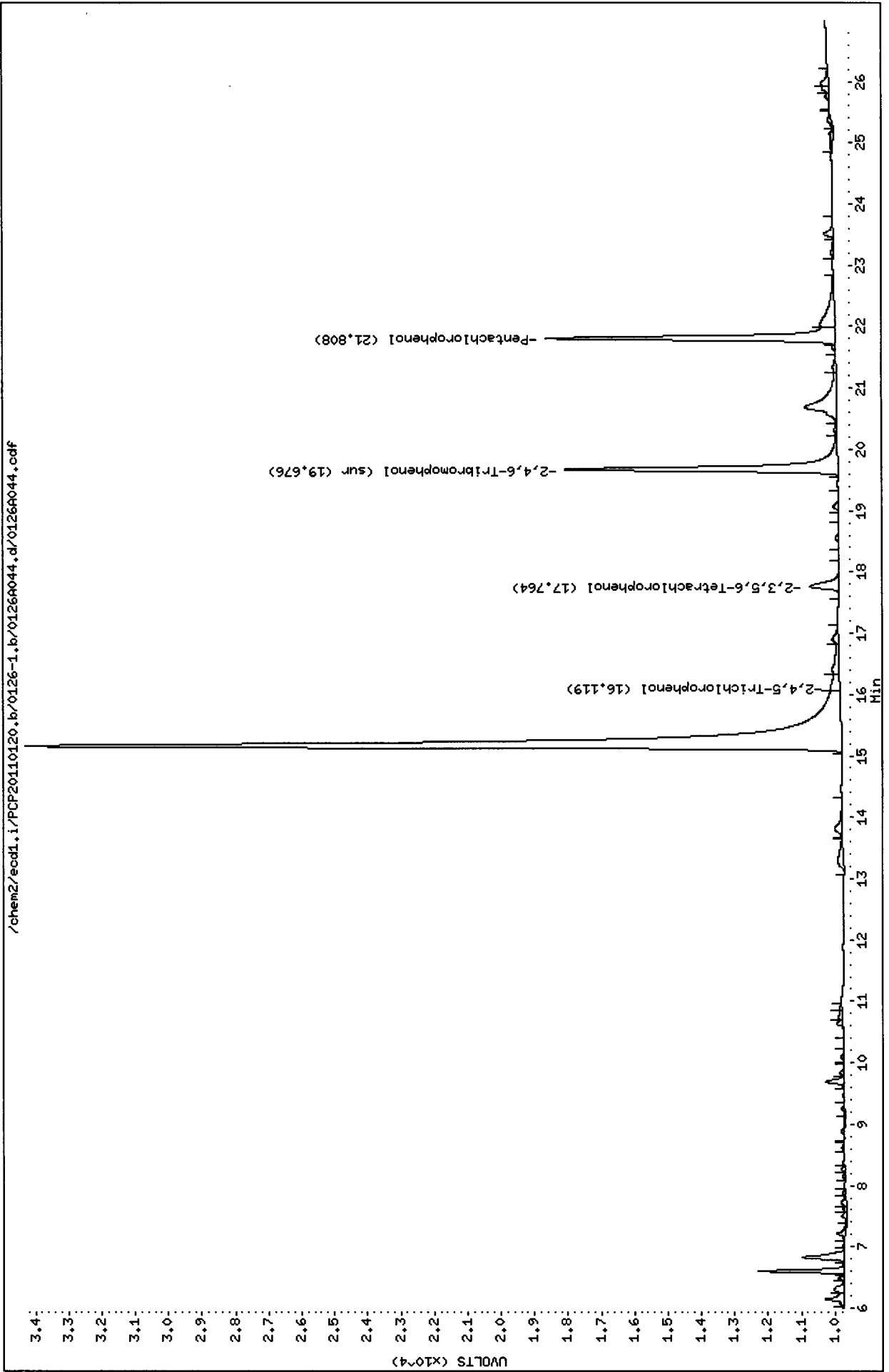




Data File: /chem2/ecd1.i/PCP20110120.b/0126-1.b/0126A044.d
Date : 27-JAN-2011 09:07
Client ID: MW-05-012111
Sample Info: SF76B
Purge Volume: 2.0
Column phase: ZB5

Instrument: ecd1.i

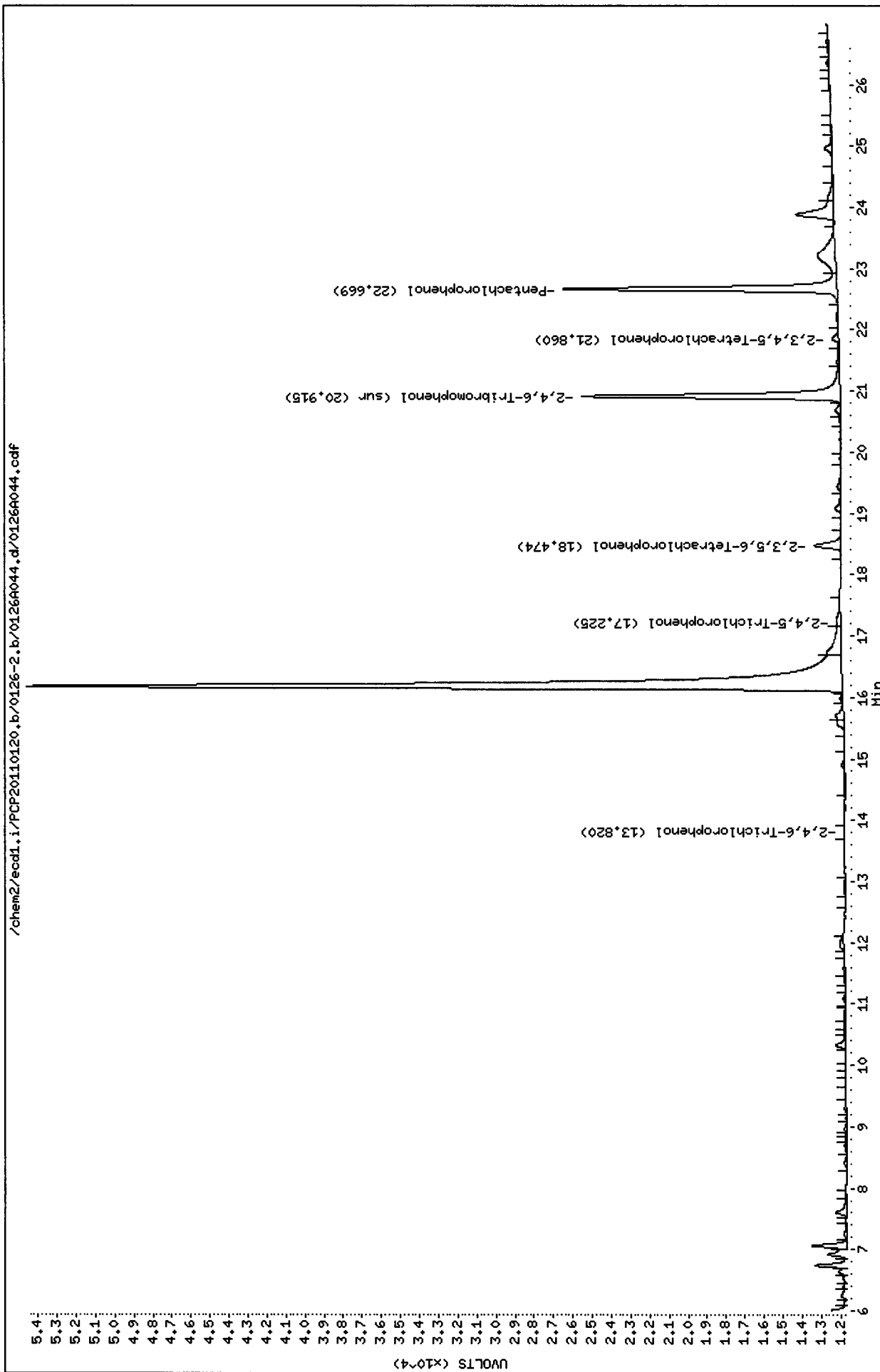
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A044.d
Date : 27-JAN-2011 09:07
Client ID: HM-05-012111
Sample Info: SF76B
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecdl.i

Operator: ar
Column diameter: 0.53



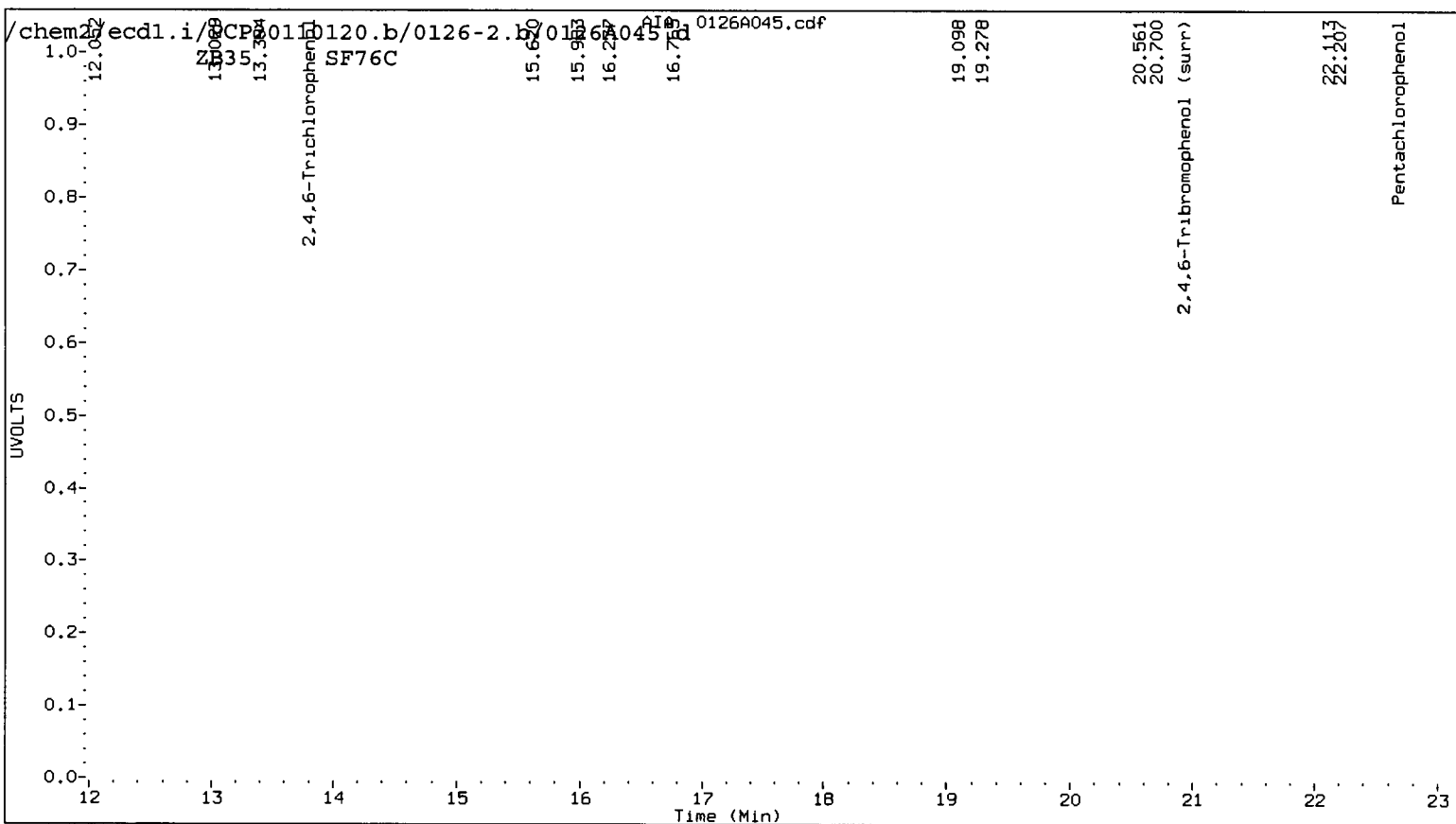
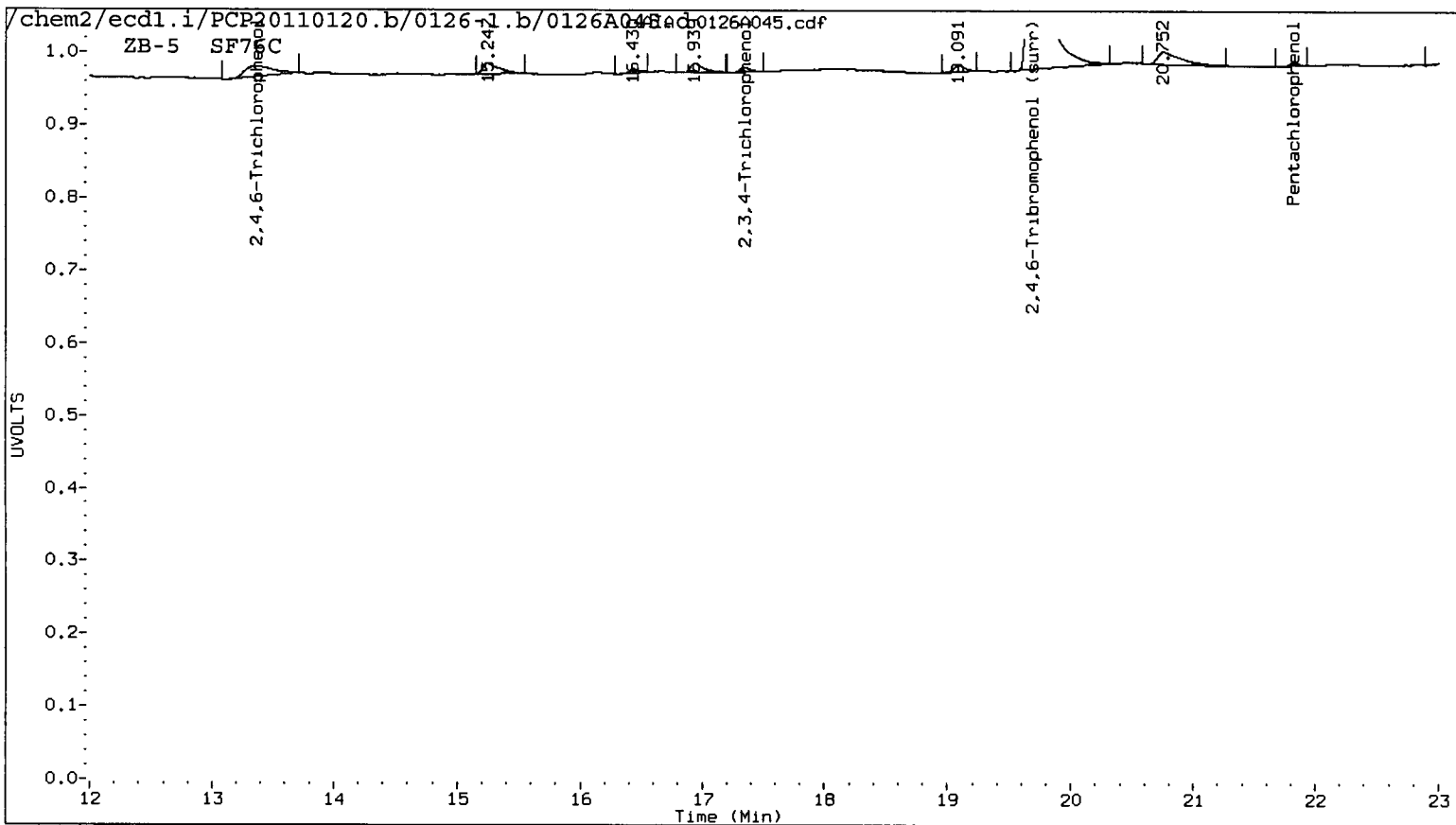
Analytical Resources Inc.
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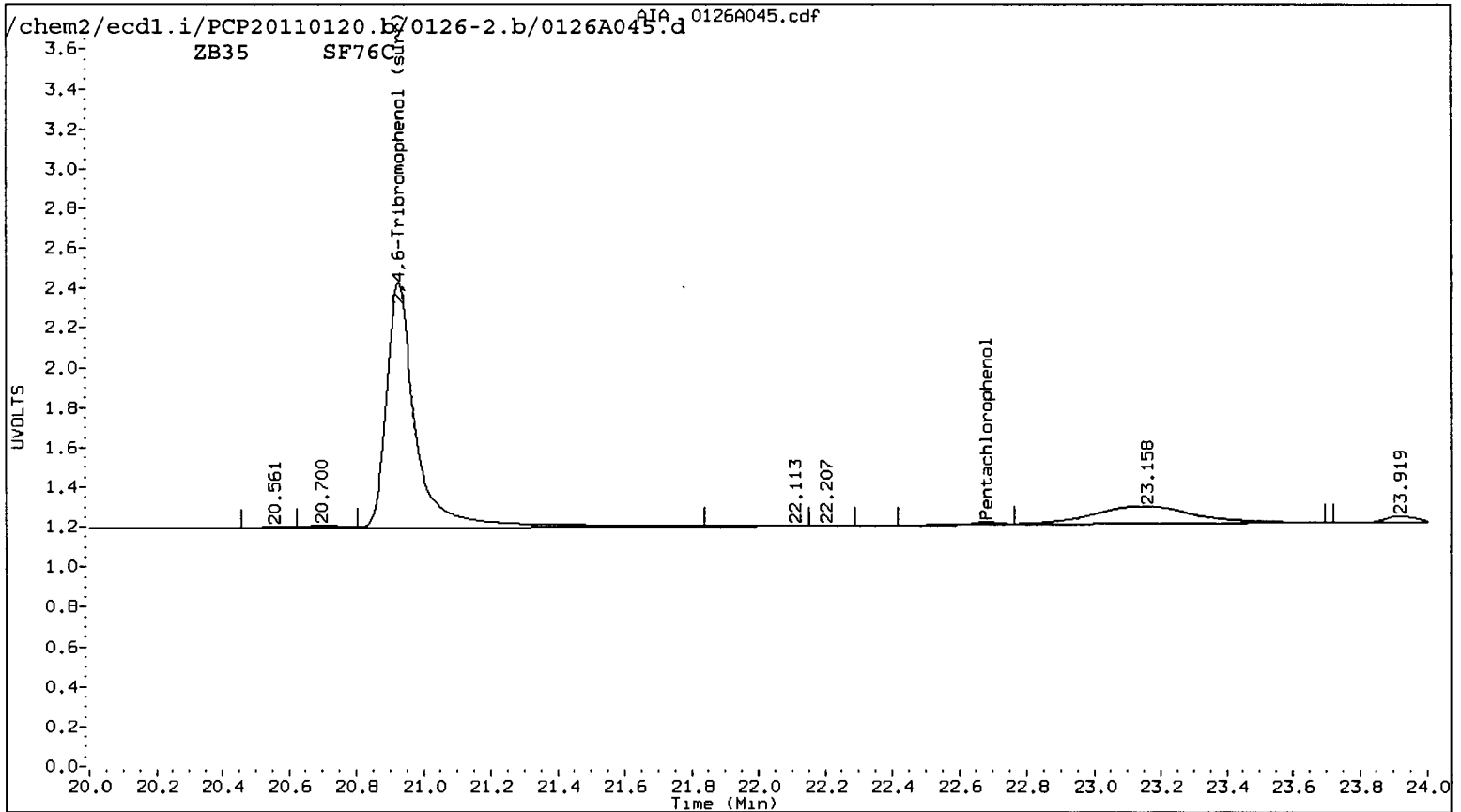
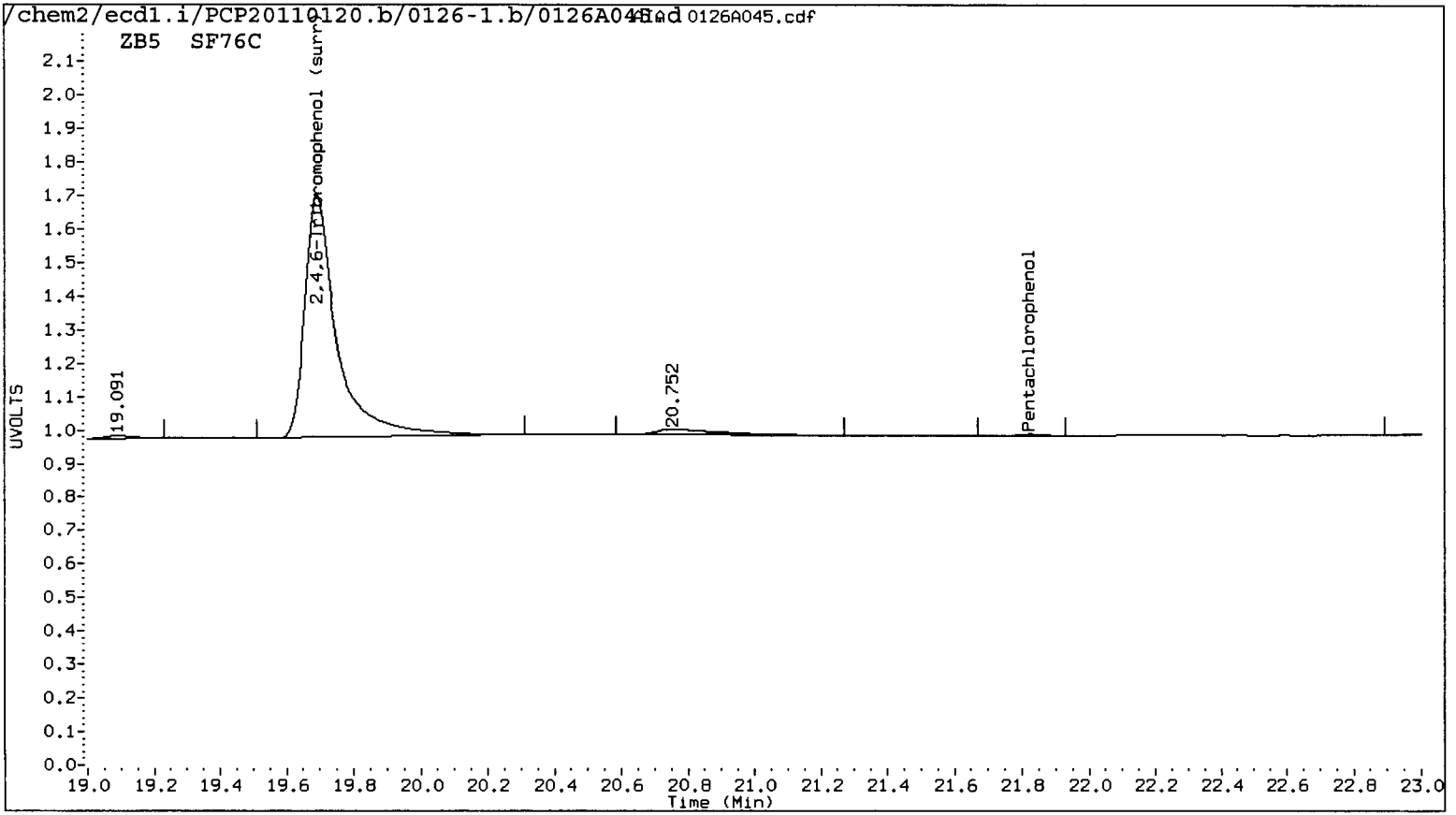
Data file 1: /chem2/ecdl.i/PCP20110120.b/0126-1.b/0126A045.d ARI ID: SF76C *AR 11222011*
 Data file 2: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A045.d Client ID: MW-16-012111
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 27-JAN-2011 09:43
 Compound Sublist: all Report Date: 01/27/2011 12:44
 Instrument: ecd1.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		
21.824	0.026	1017	22.681	0.020	4130	0.0627	0.1575 <i>LR</i>	86.1*	Pentachlorophenol
13.362	-0.068	10623	13.803	-0.013	771	0.9985	0.0522	180.1*	2,4,6-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,6-Trichlorophenol
----			----			0.0000	0.0000	---	2,4,5-Trichlorophenol
17.346	-0.009	1685	----			0.2659	0.0000	---	2,3,4-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,5,6-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,3,4,5-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,4-Dichlorophenol
19.692	0.032	240670	20.926	0.023	371181	18.7	18.5 /	0.7	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	74.7	74.2





Data File: /chem2/ecdl1.i/PCP20110120.b/0126-1.b/0126A045.d

Date : 27-JAN-2011 09:43

Client ID: MM-16-012111

Sample Info: SF76C

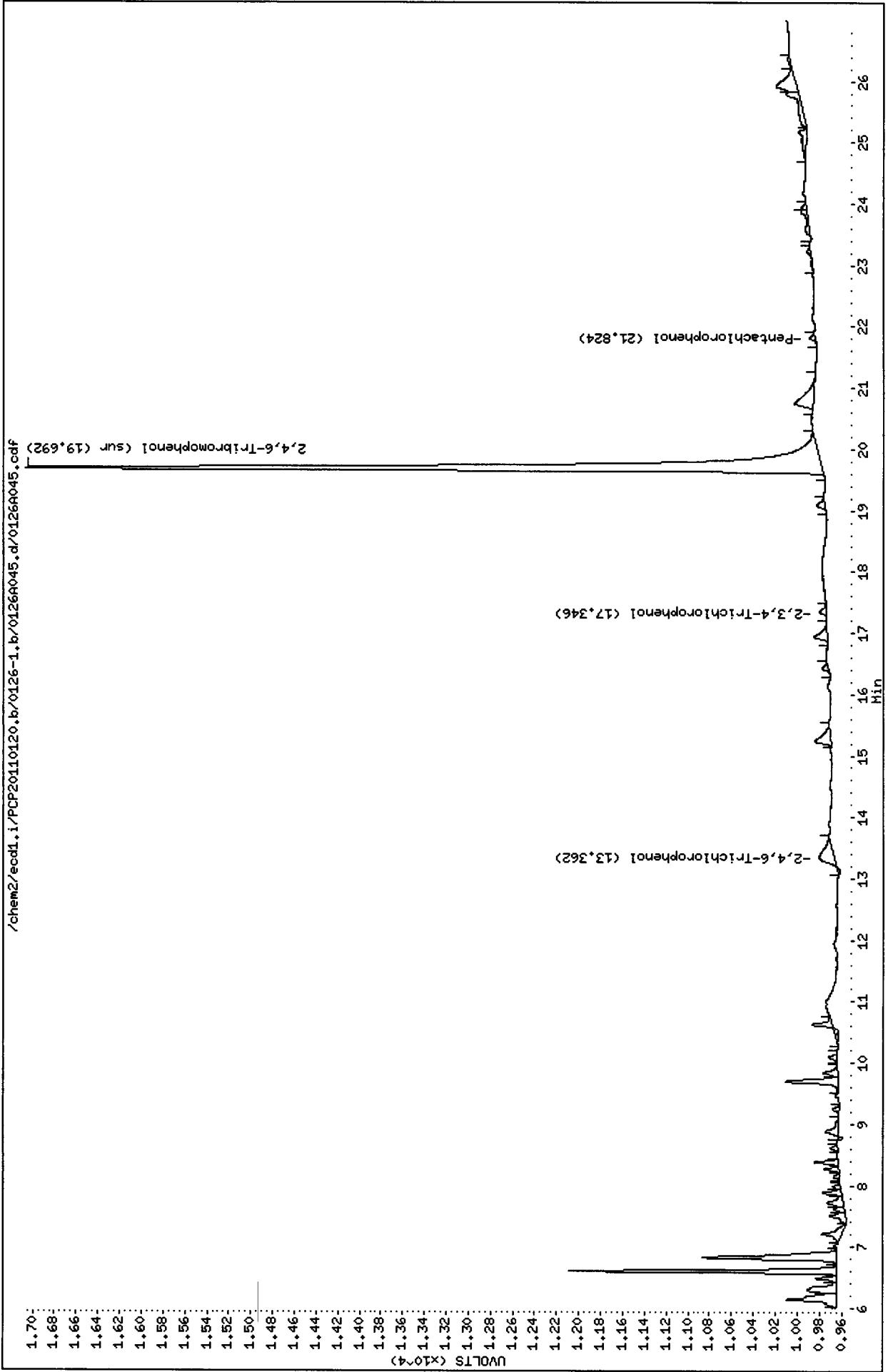
Purge Volume: 2.0

Column phase: ZB5

Instrument: ecdl1.i

Operator: ar

Column diameter: 0.53

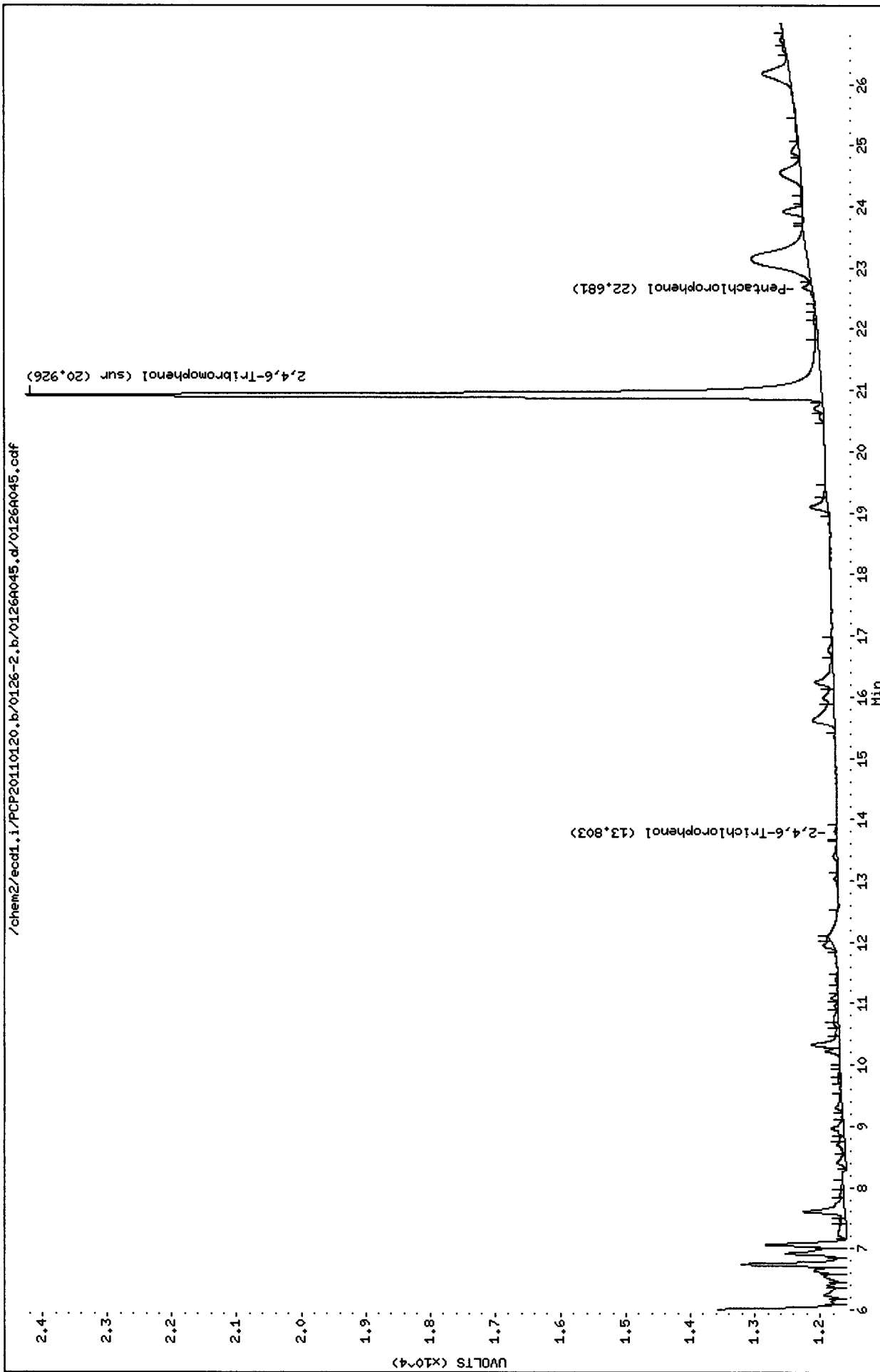


Data File: /chem2/ecd1.i/PCP20110120.b/0126-2.b/0126A045.d
Date : 27-JAN-2011 09:43
Client ID: MM-16-012111
Sample Info: SF76C
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecd1.i

Operator: ar
Column diameter: 0.53

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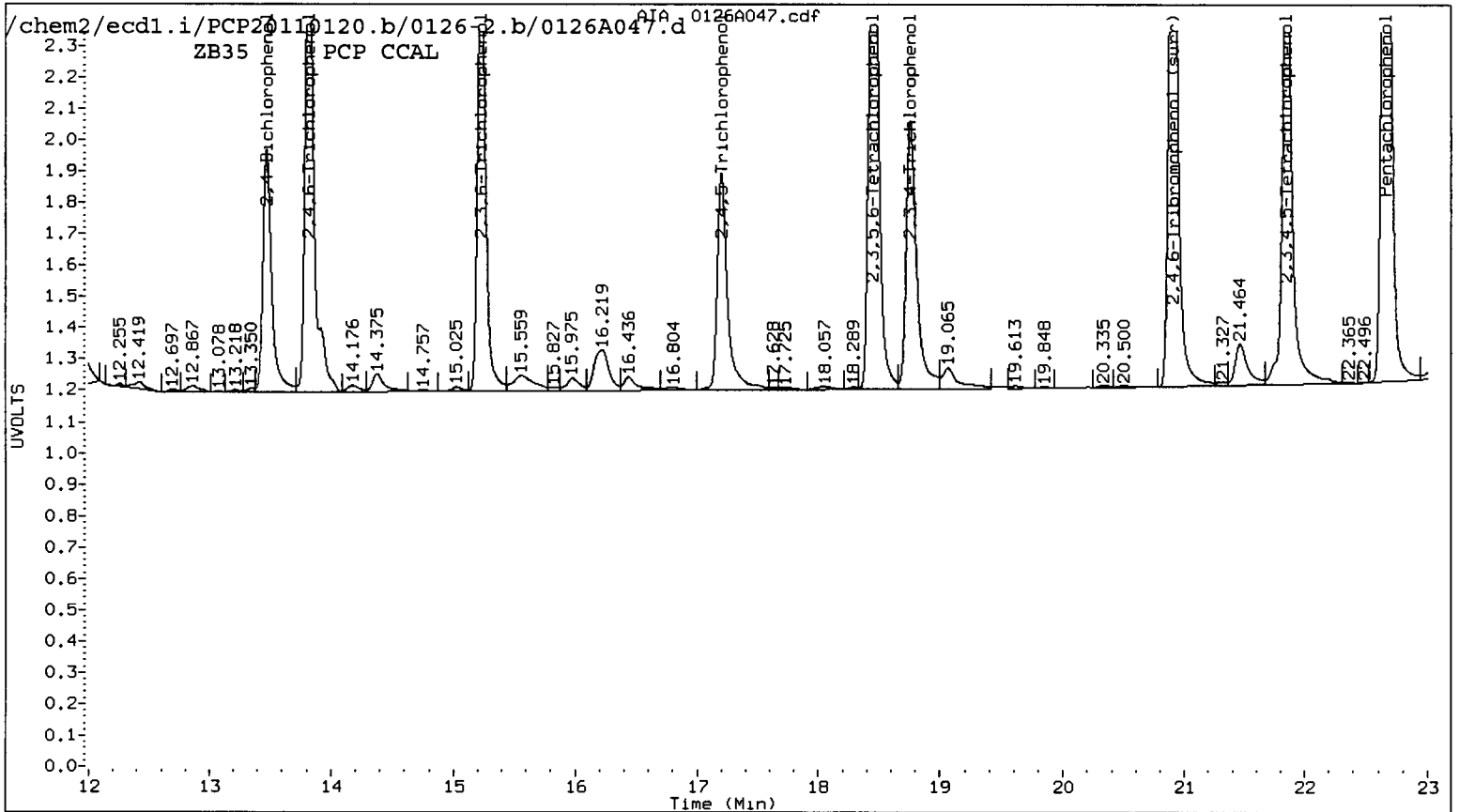
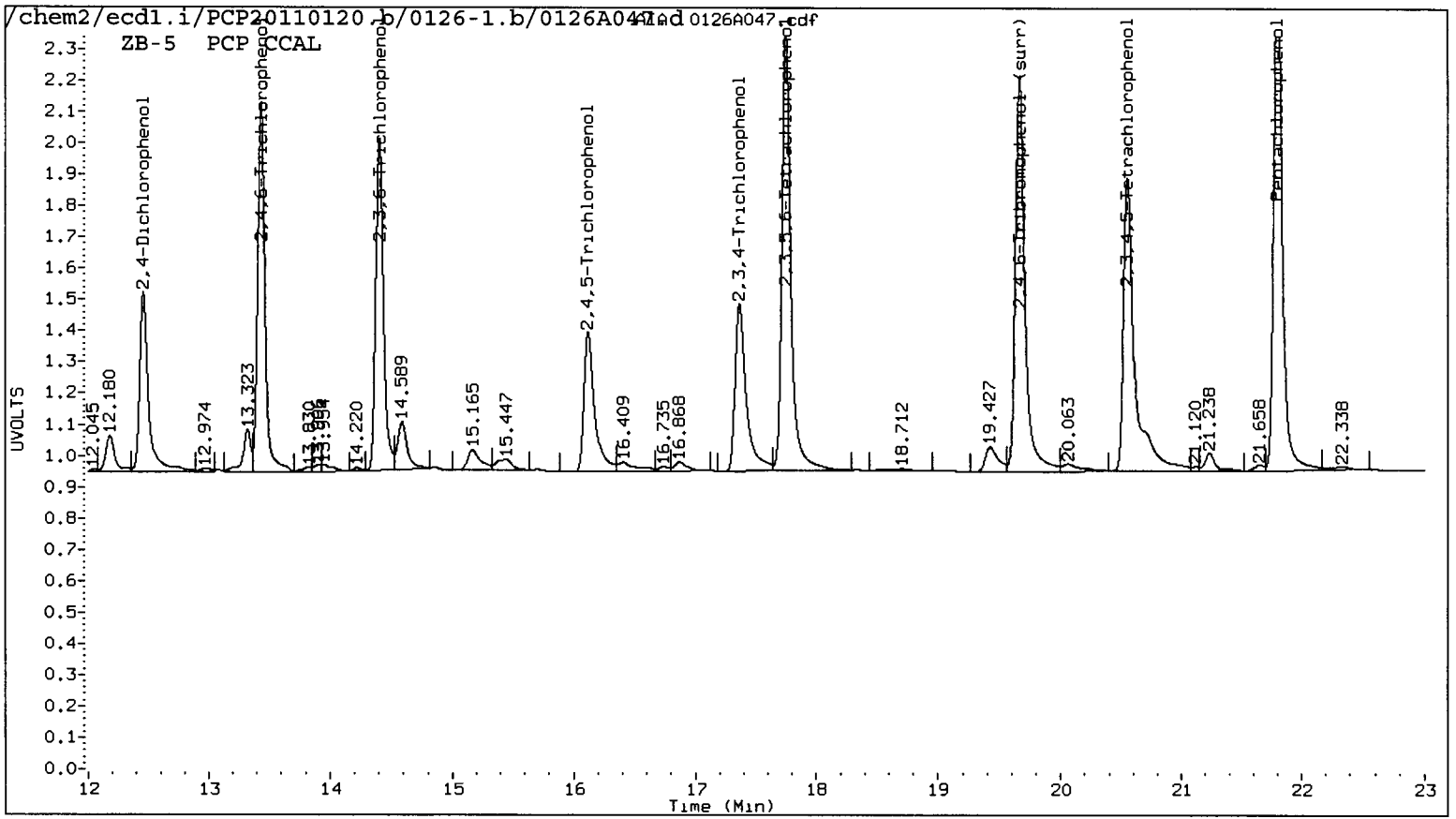
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

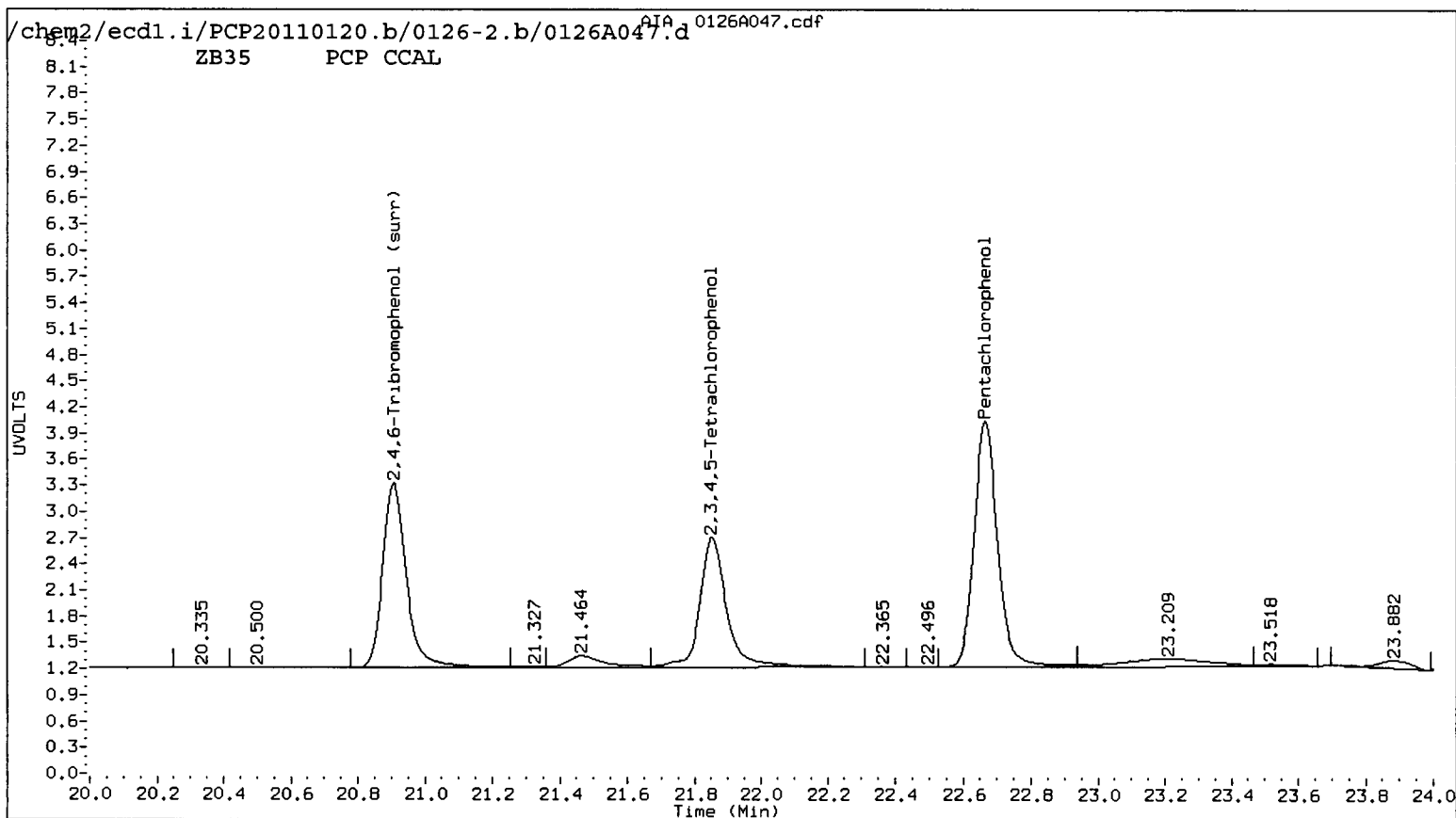
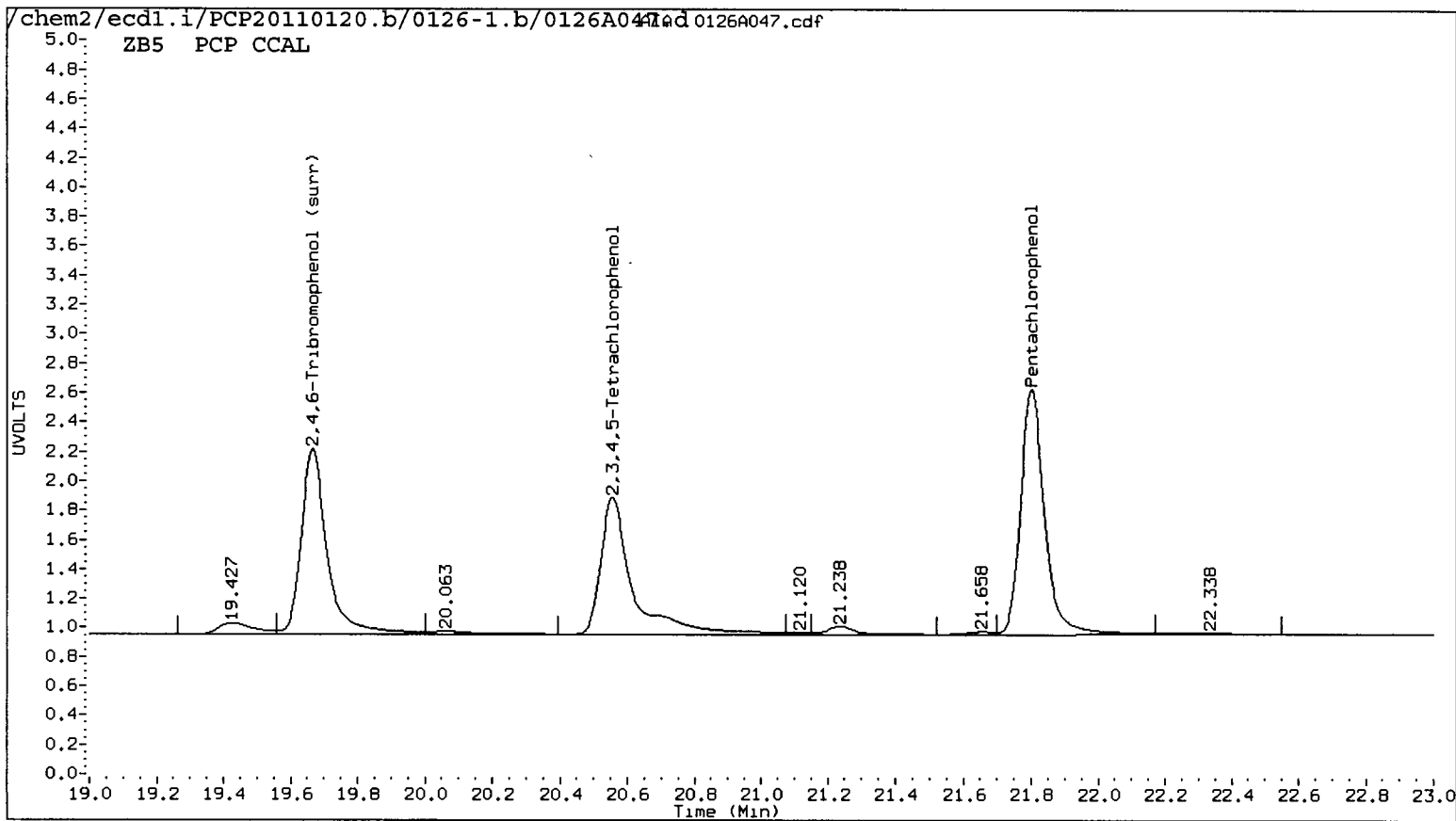
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 Data file 2: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A047.d Client ID:
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 27-JAN-2011 10:56
 Compound Sublist: all Report Date: 01/27/2011 12:44
 Instrument: ecdl.i Matrix: WATER
 Operator: 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		
21.803	0.005	420865	22.664	0.003	683141	25.9433	26.0536	0.4	Pentachlorophenol
13.434	0.004	250162	13.821	0.004	403600	26.7168	27.3243	2.2	2,4,6-Trichlorophenol
14.403	0.005	231945	15.228	0.005	354169	25.4807	25.8040	1.3	2,3,6-Trichlorophenol
16.118	0.008	136496	17.199	0.007	206563	28.8614	25.6451	11.8	2,4,5-Trichlorophenol
17.362	0.007	172366	18.761	0.006	250535	27.1883	27.1994	0.0	2,3,4-Trichlorophenol
17.746	0.006	364384	18.455	0.004	545406	26.1245	25.8541	1.0	2,3,5,6-Tetrachlorophenol
20.556	0.008	313435	21.851	0.005	419510	29.5684	26.1451	12.3	2,3,4,5-Tetrachlorophenol
12.458	0.005	151302	13.472	0.004	197333	294.5759	258.2735	13.1	2,4-Dichlorophenol
19.667	0.007	343452	20.907	0.004	522610	26.6	26.1	2.0	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	103.8	104.2
2,4,6-Trichlorophenol	106.9	109.3
2,3,6-Trichlorophenol	101.9	103.2
2,4,5-Trichlorophenol	115.4	102.6
2,3,4-Trichlorophenol	108.8	108.8
2,3,5,6-Tetrachlorophenol	104.5	103.4
2,3,4,5-Tetrachlorophenol	118.3	104.6
2,4-Dichlorophenol	117.8	103.3
2,4,6-TBP (surr)	106.6	104.4





Data File: /chem2/ecd1.i/PCP20110120.b/0126-1.b/0126A047.d

Date : 27-JAN-2011 10:56

Client ID:

Sample Info: PCP CCAL

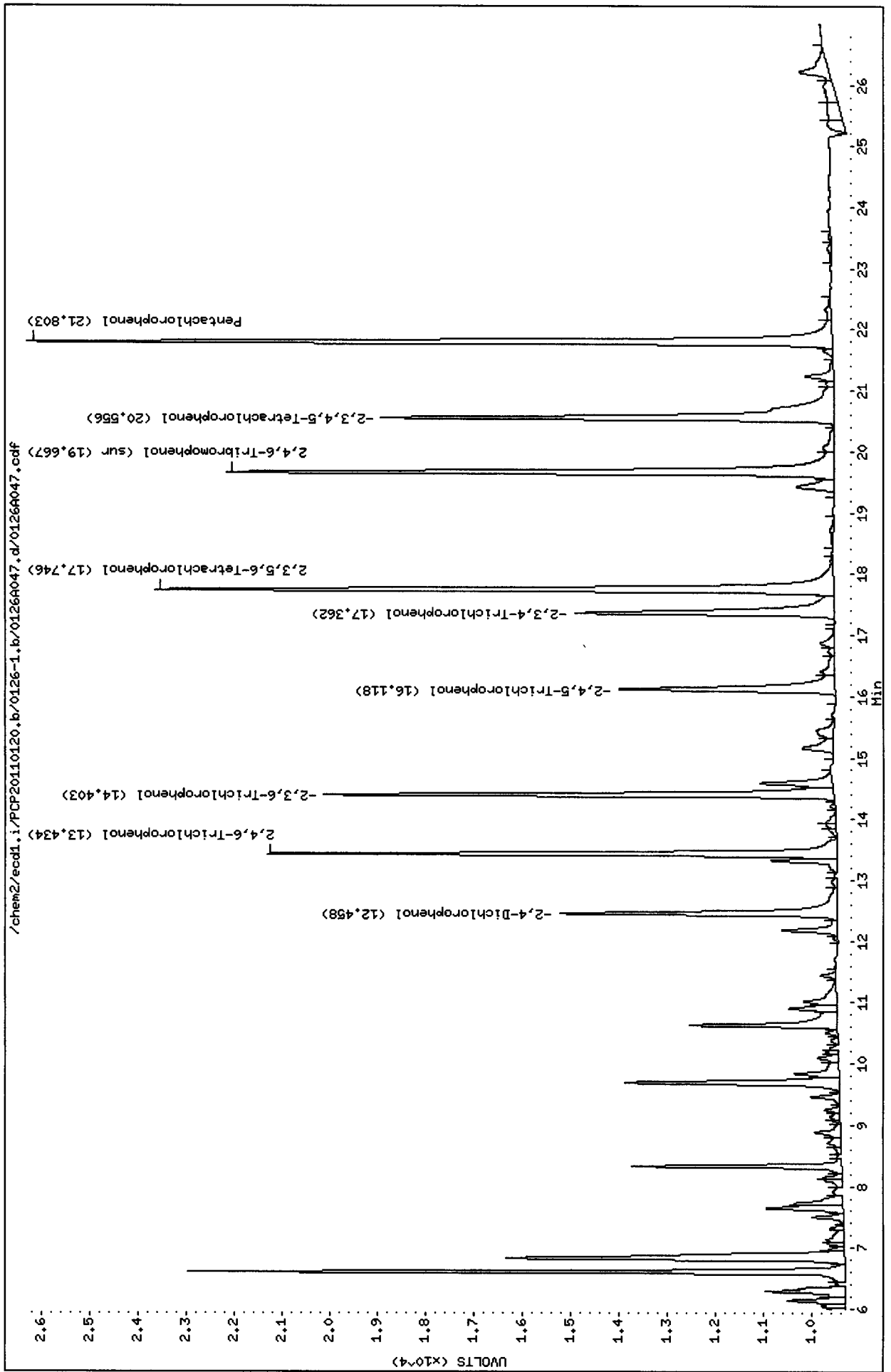
Purge Volume: 2.0

Column phase: ZB5

Instrument: ecd1.i

Operator: ar

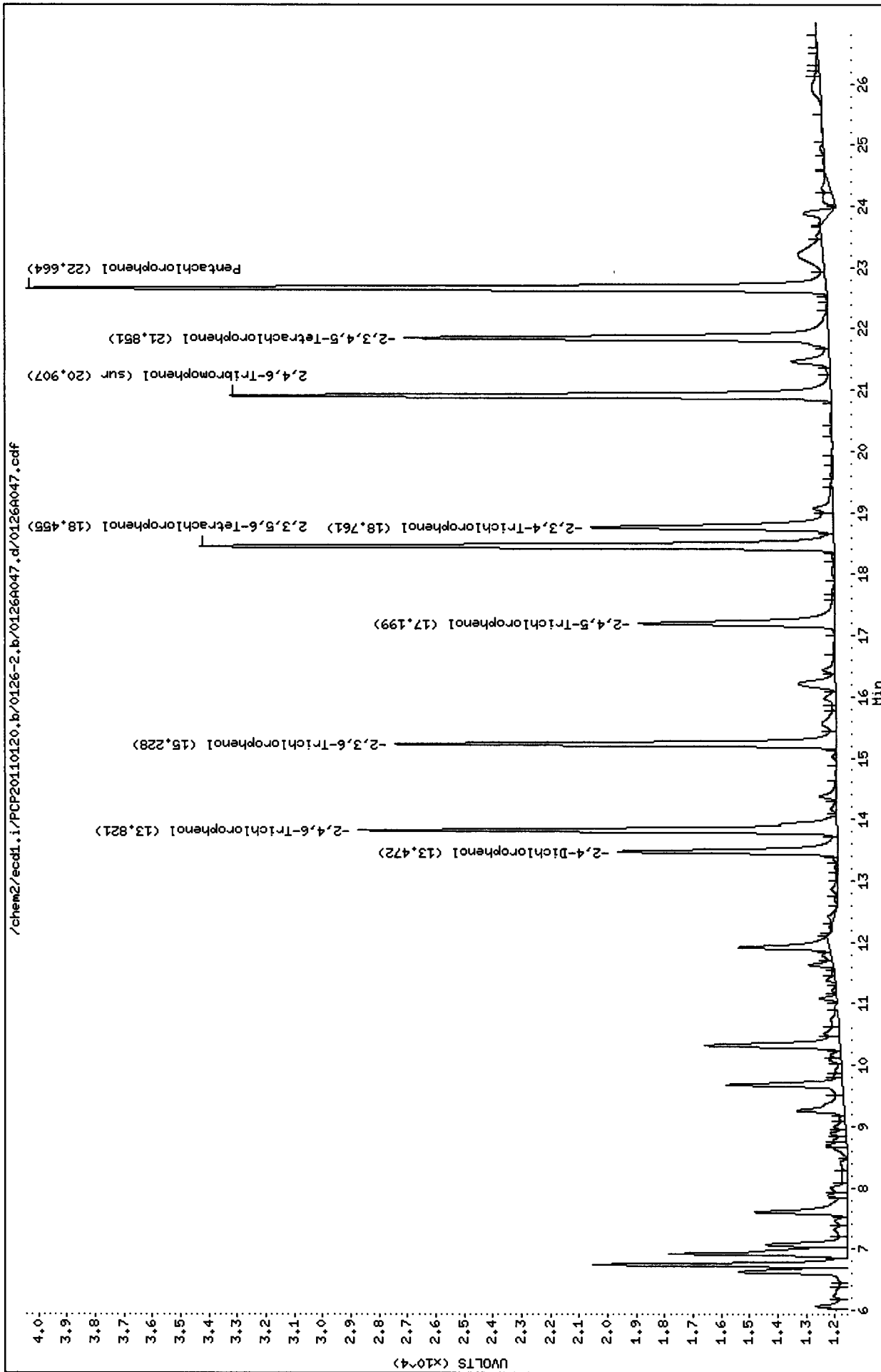
Column diameter: 0.53



Data File: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A047.d
Date : 27-JAN-2011 10:56
Client ID:
Sample Info: PCP CCL
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecdl.i

Operator: ar
Column diameter: 0.53



Analytical Resources Inc.
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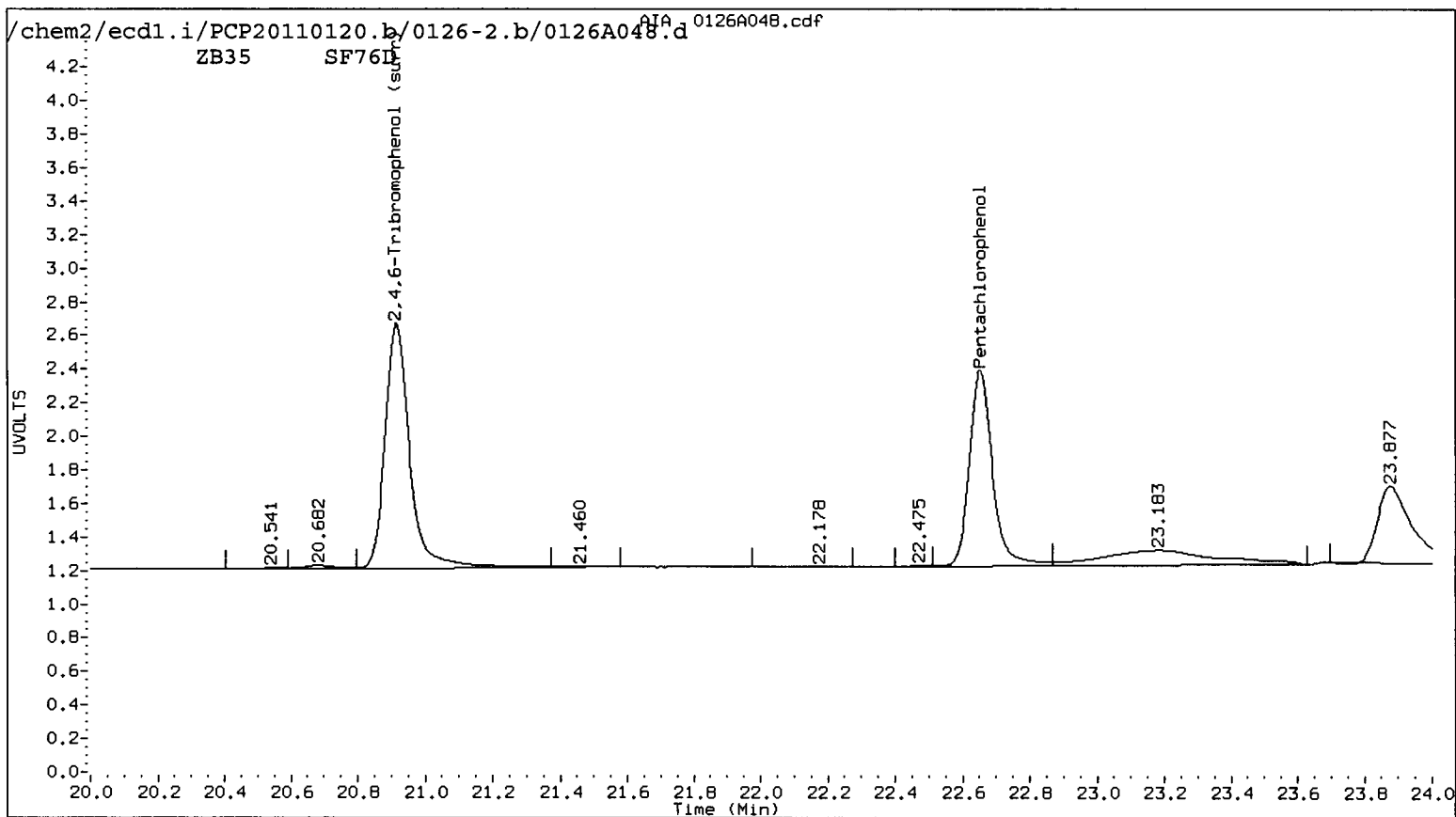
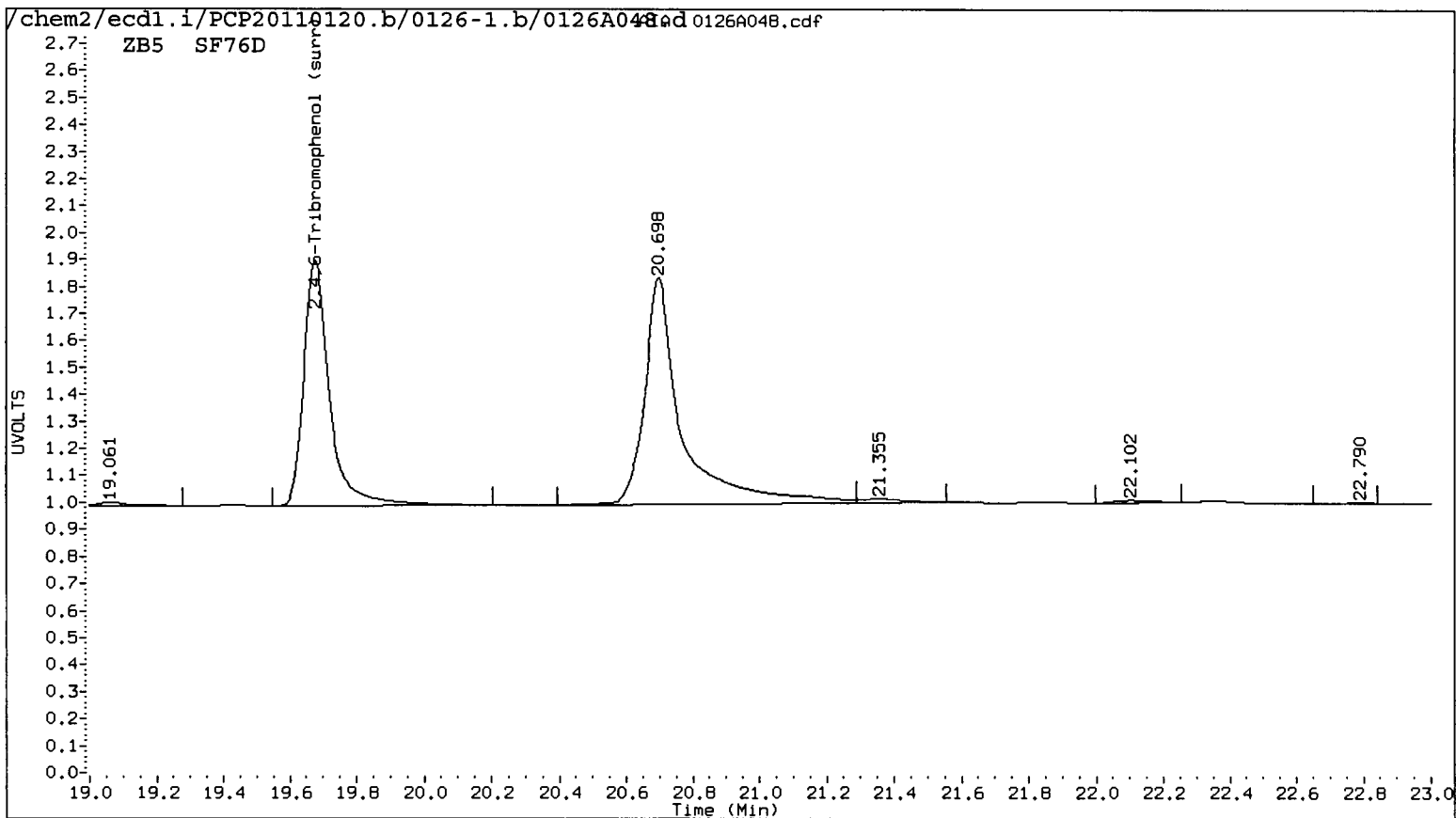
AR 1/27/2011

Data file 1: /chem2/ecdl.i/PCP20110120.b/0126-1.b/0126A048.d ARI ID: SF76D
 Data file 2: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A048.d Client ID: MW-02-012111
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 27-JAN-2011 11:32
 Compound Sublist: all Report Date: 01/27/2011 14:54
 Instrument: ecd1.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		
----		22.652	-0.009 283835	0.0000	10.8249 ^R	---	Pentachlorophenol
----		----		0.0000	0.0000	---	2,4,6-Trichlorophenol
----		----		0.0000	0.0000	---	2,3,6-Trichlorophenol
----		----		0.0000	0.0000	---	2,4,5-Trichlorophenol
----		18.780	0.025 571	0.0000	0.0621	---	2,3,4-Trichlorophenol
----		----		0.0000	0.0000	---	2,3,5,6-Tetrachlorophenol
----		----		0.0000	0.0000	---	2,3,4,5-Tetrachlorophenol
----		----		0.0000	0.0000	---	2,4-Dichlorophenol
19.677	0.017 246086	20.915	0.012 369953	19.1	18.5	3.3	2,4,6-Tribromophenol (surr)

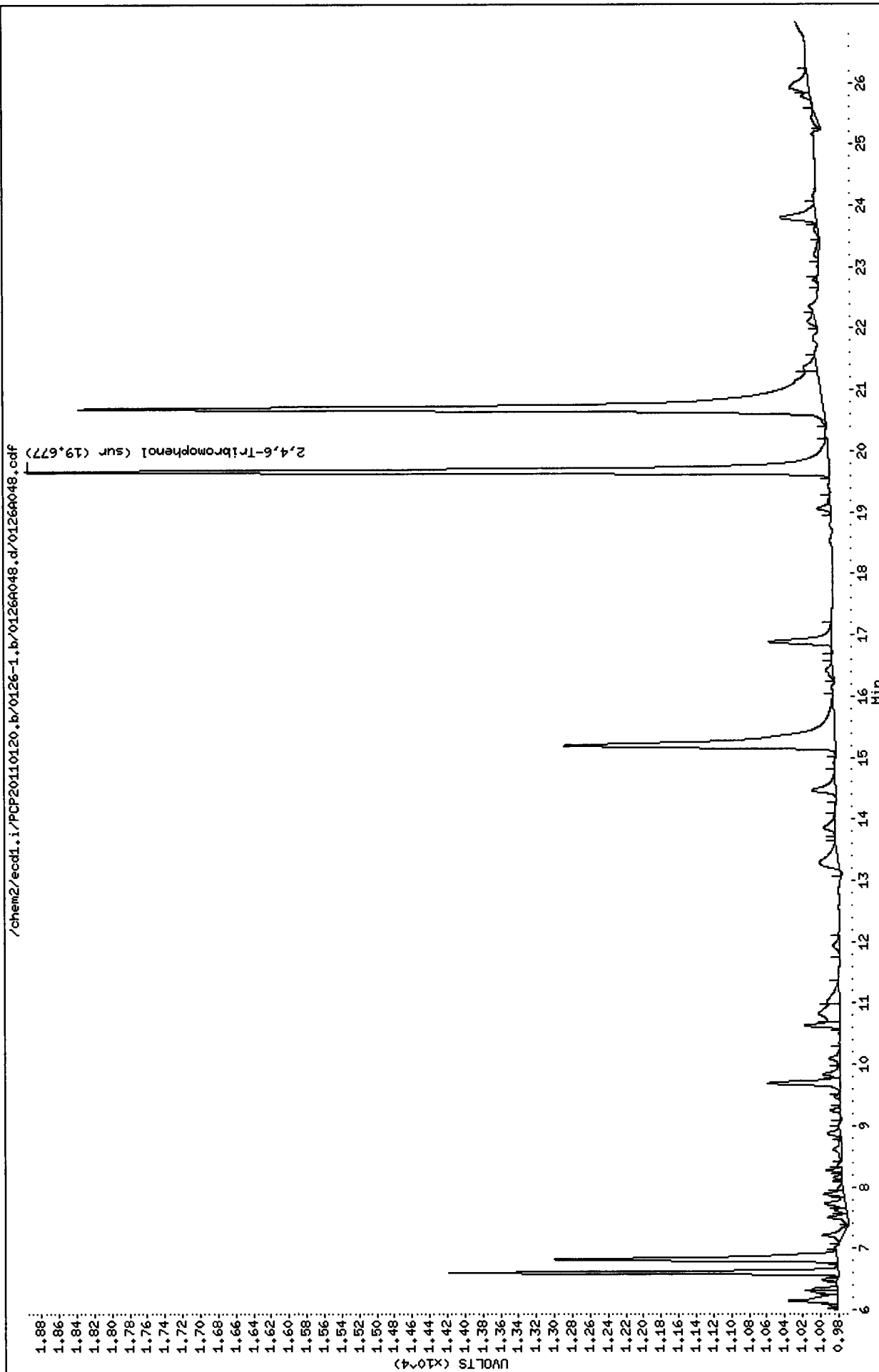
PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	76.4	73.9



Data File: /chem2/ecdl.i/PCP20110120.b/0126-1.b/01260048.d
Date : 27-JAN-2011 11:32
Client ID: MM-02-012111
Sample Info: SF76D
Purge Volume: 2.0
Column phase: ZB5

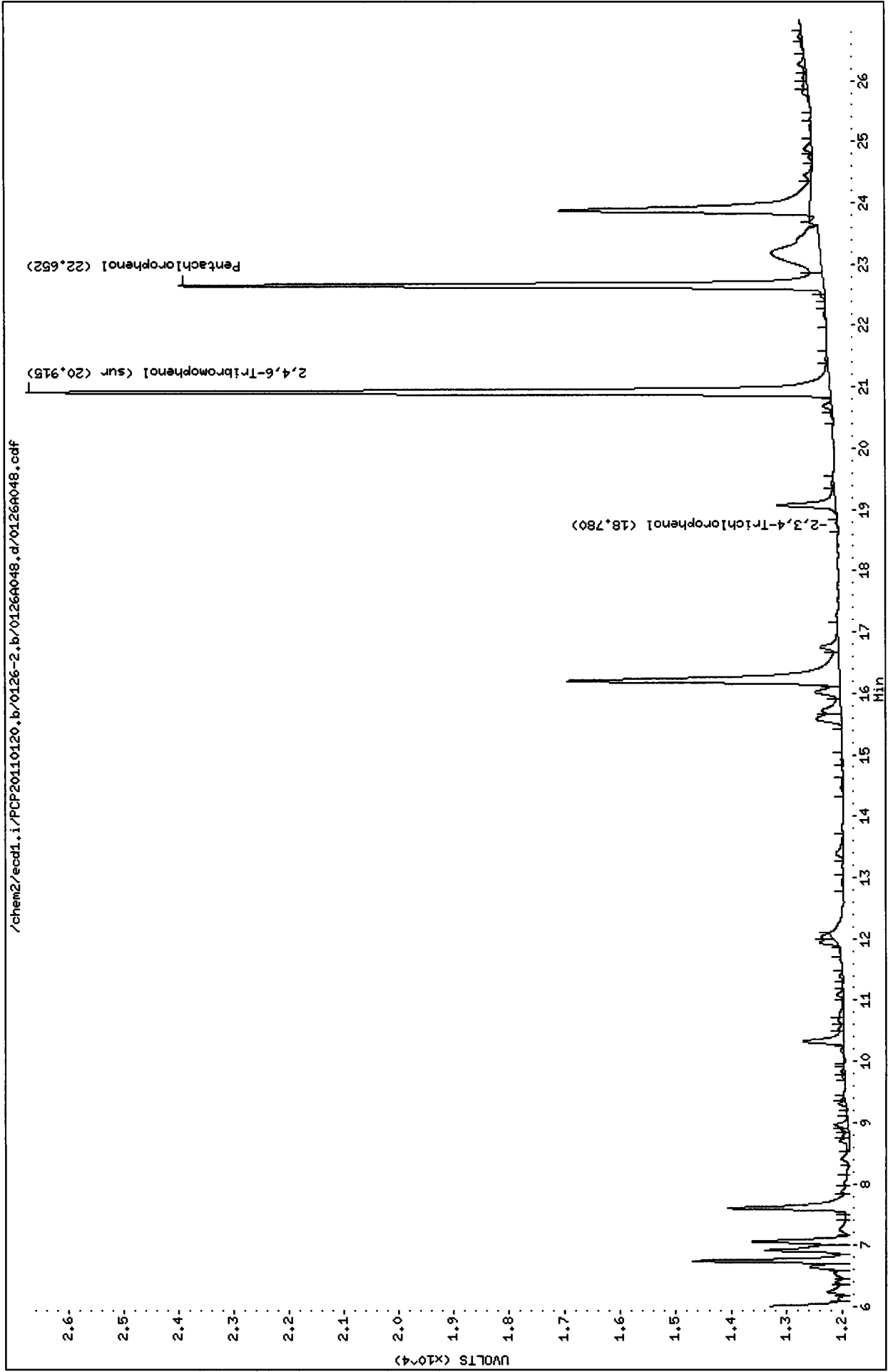
Instrument: ecdl.i
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecdl1.i/PCP20110120.b/0126-2.b/0126A048.d
Date : 27-JAN-2011 11:32
Client ID: MM-02-012111
Sample Info: SF76D
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecdl1.i

Operator: ar
Column diameter: 0.53



Analytical Resources Inc.
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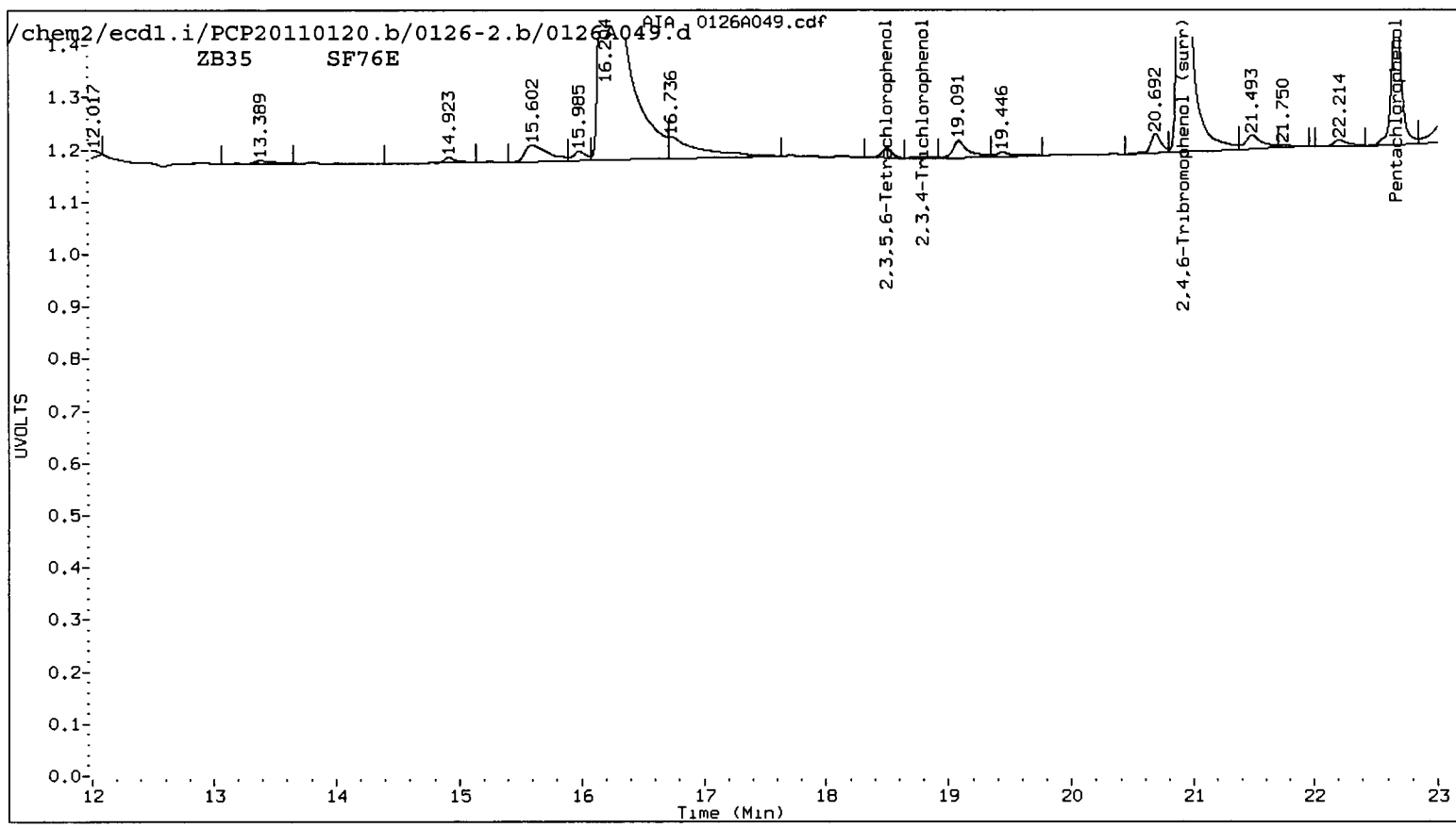
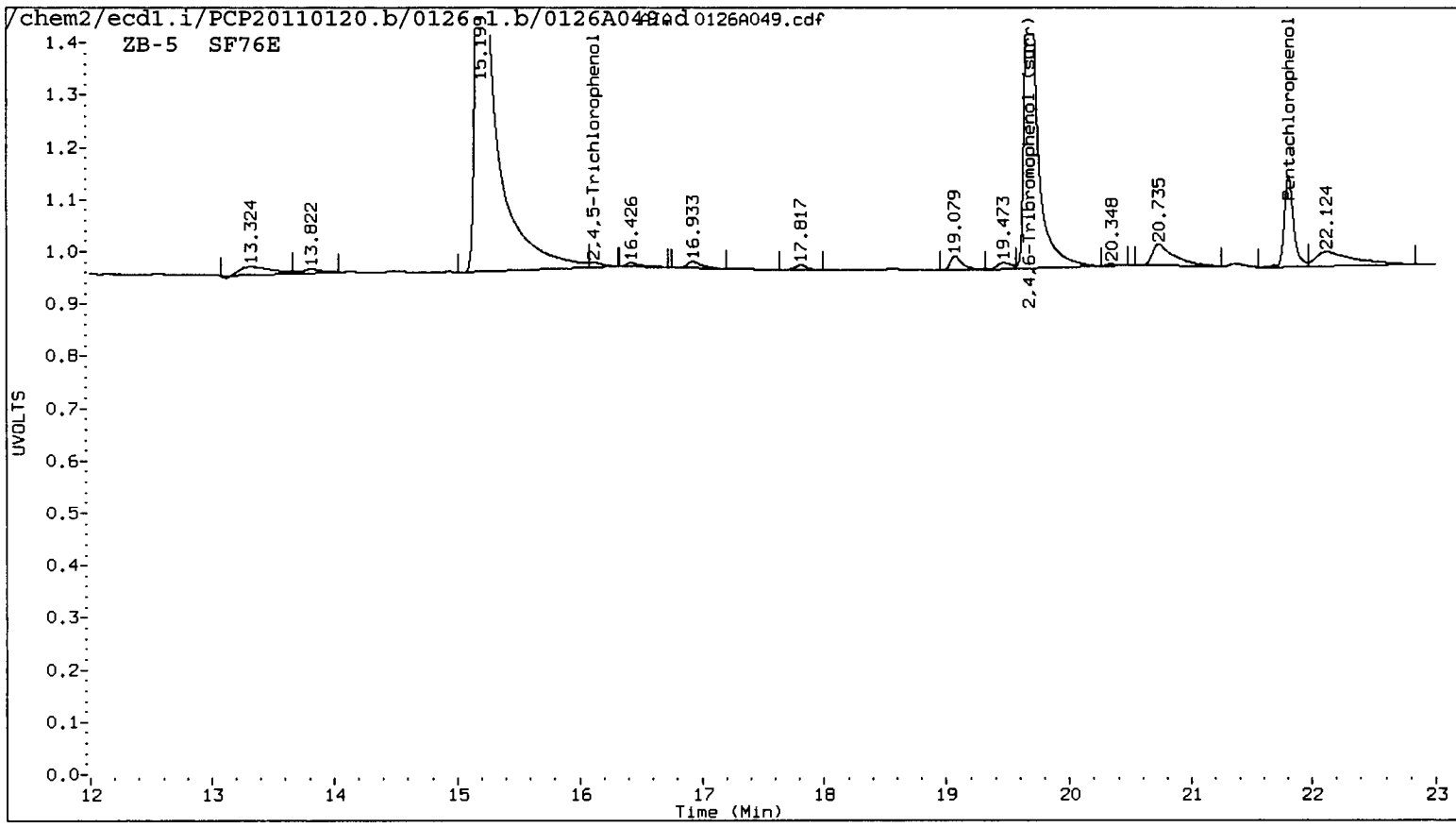
AR 1/27/2011

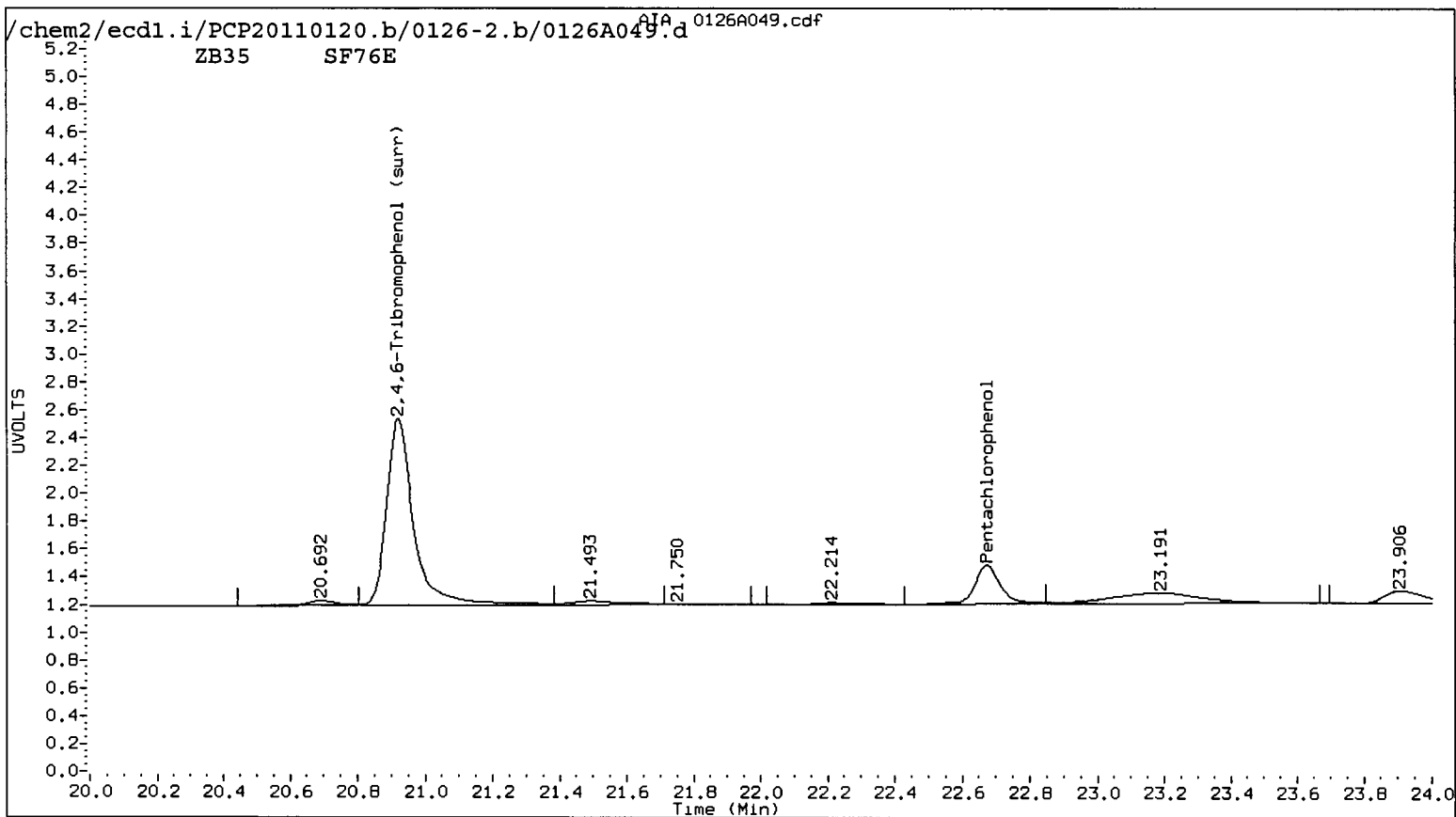
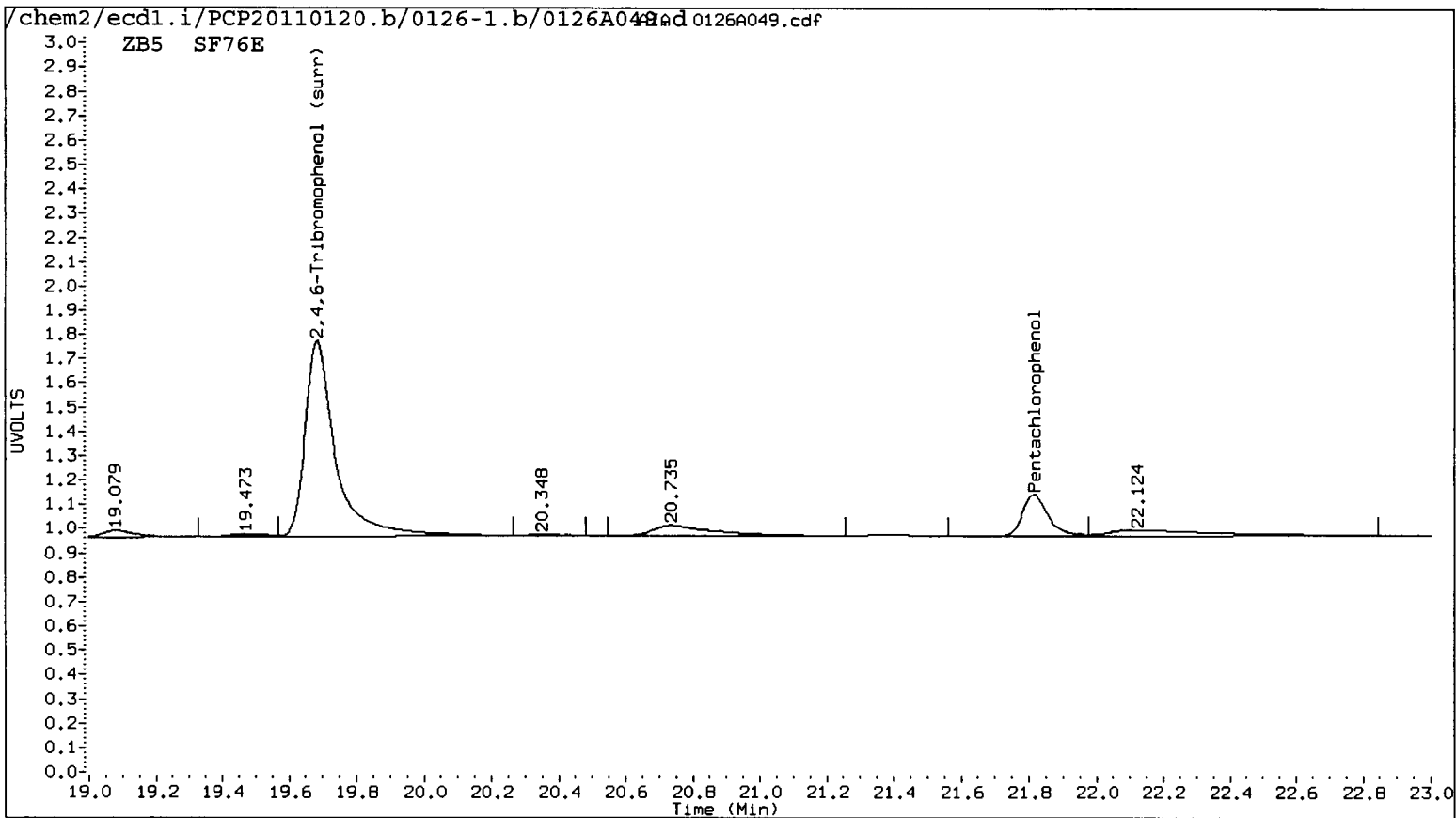
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 Data file 2: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A049.d Client ID: MW-09-012111
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 27-JAN-2011 12:08
 Compound Sublist: all Report Date: 01/27/2011 14:54
 Instrument: ecd1.i Matrix: WATER
 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		
21.815	0.017 / 46114	22.674	0.013 / 74977	2.8426	2.8595 /	0.6	Pentachlorophenol
----		----		0.0000	0.0000	---	2,4,6-Trichlorophenol
----		----		0.0000	0.0000	---	2,3,6-Trichlorophenol
16.125	0.014 3065	----		0.6483	0.0000	---	2,4,5-Trichlorophenol
----		18.794	0.039 1457	0.0000	0.1583	---	2,3,4-Trichlorophenol
----		18.502	0.051 5636	0.0000	0.2672	---	2,3,5,6-Tetrachlorophenol
----		----		0.0000	0.0000	---	2,3,4,5-Tetrachlorophenol
----		----		0.0000	0.0000 /	---	2,4-Dichlorophenol
19.685	0.025 / 251576	20.921	0.018 / 377269	19.5	18.8 /	3.5	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

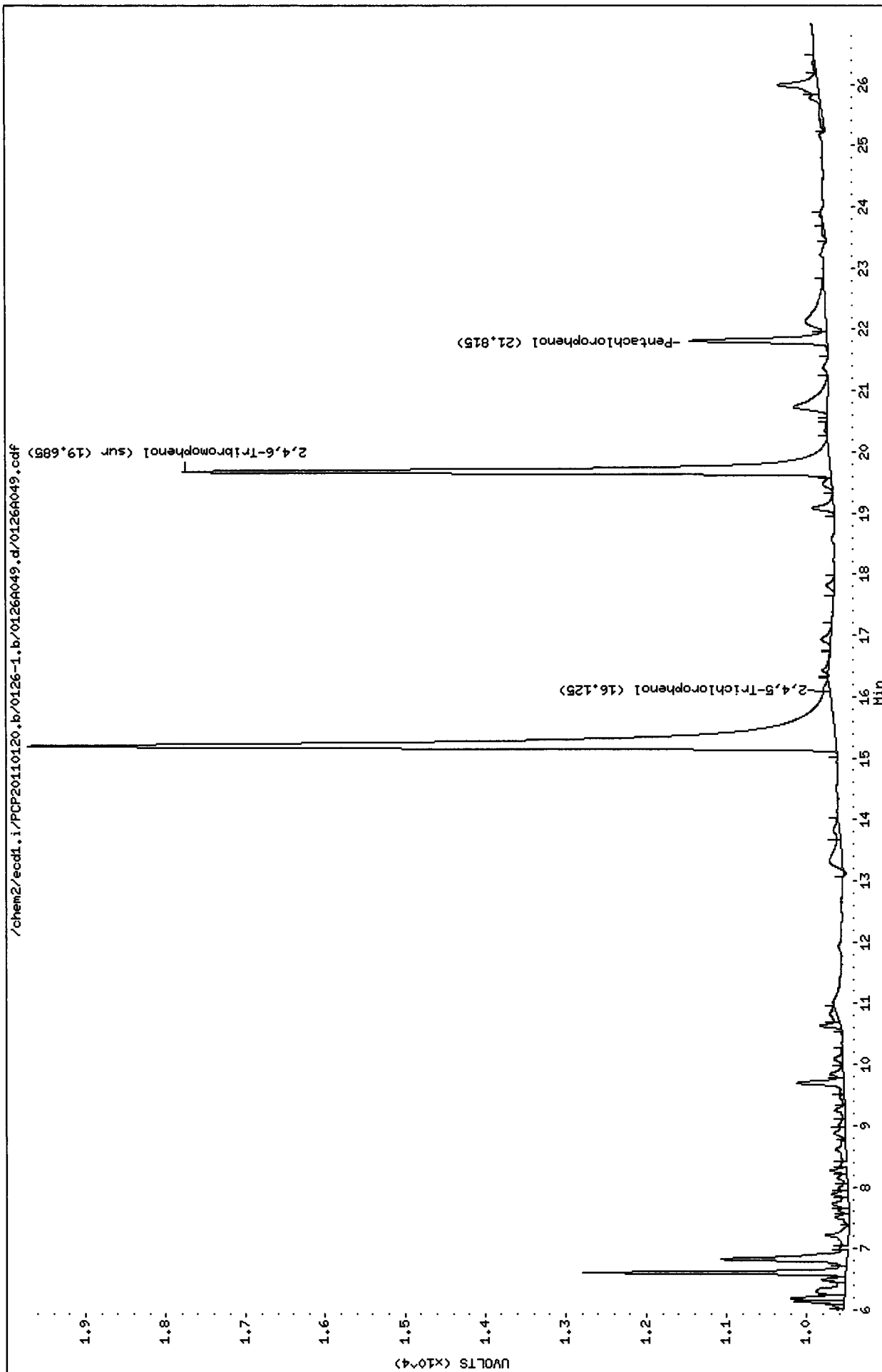
COMPOUND	Col1	Col2
2,4,6-TBP (surr)	78.1	75.4 /





Data File: /chem2/ecdl.i/PCP20110120.b/0126-1.b/0126A049.d
Date : 27-JAN-2011 12:08
Client ID: MW-09-012111
Sample Info: SF76E
Purge Volume: 2.0
Column phase: ZB5

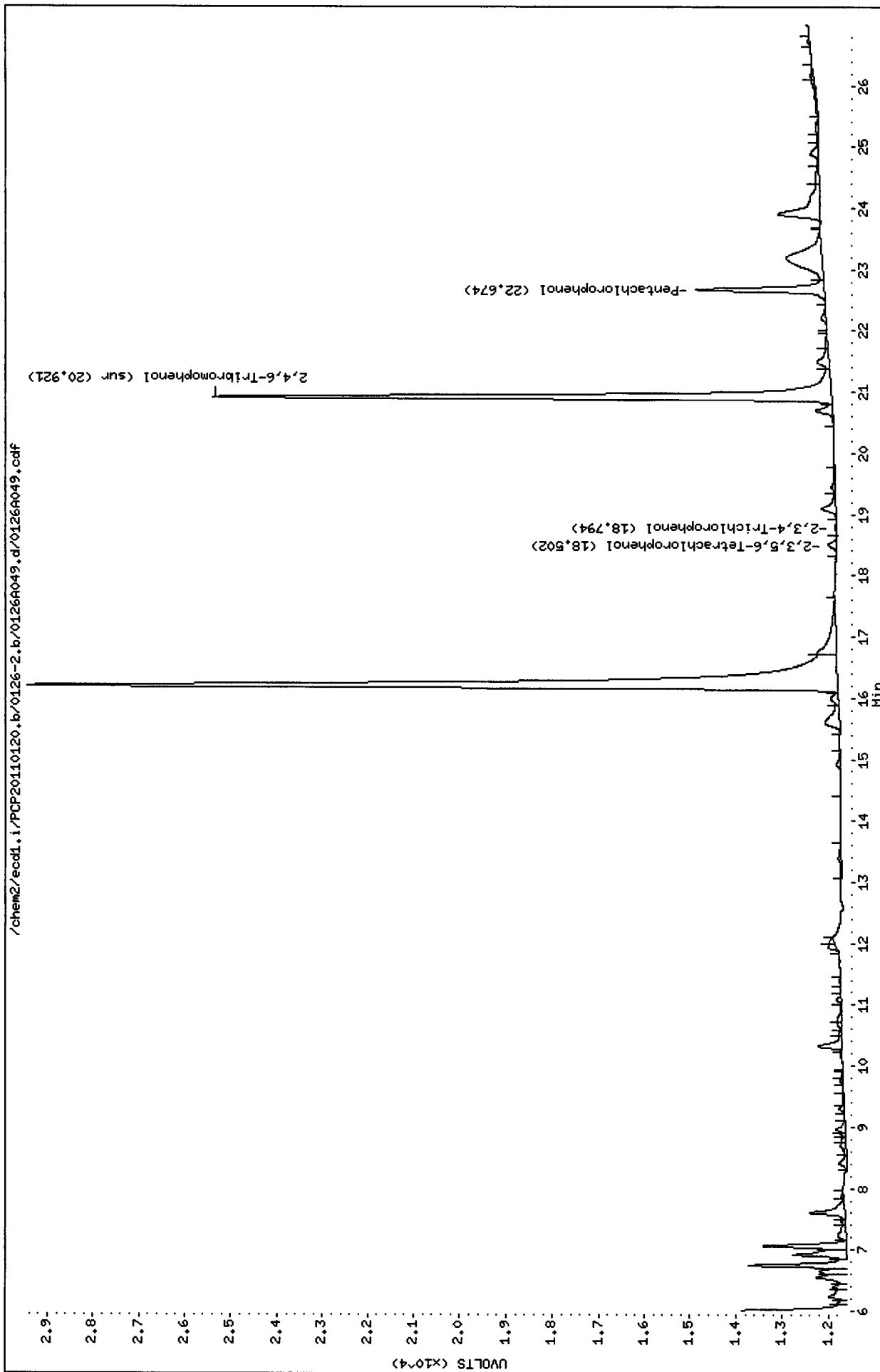
Instrument: ecd1.i
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecdl1.i/PCP20110120.b/0126-2.b/0126A049.d
Date : 27-JAN-2011 12:08
Client ID: MN-09-012111
Sample Info: SF76E
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecdl1.i

Operator: ar
Column diameter: 0.53



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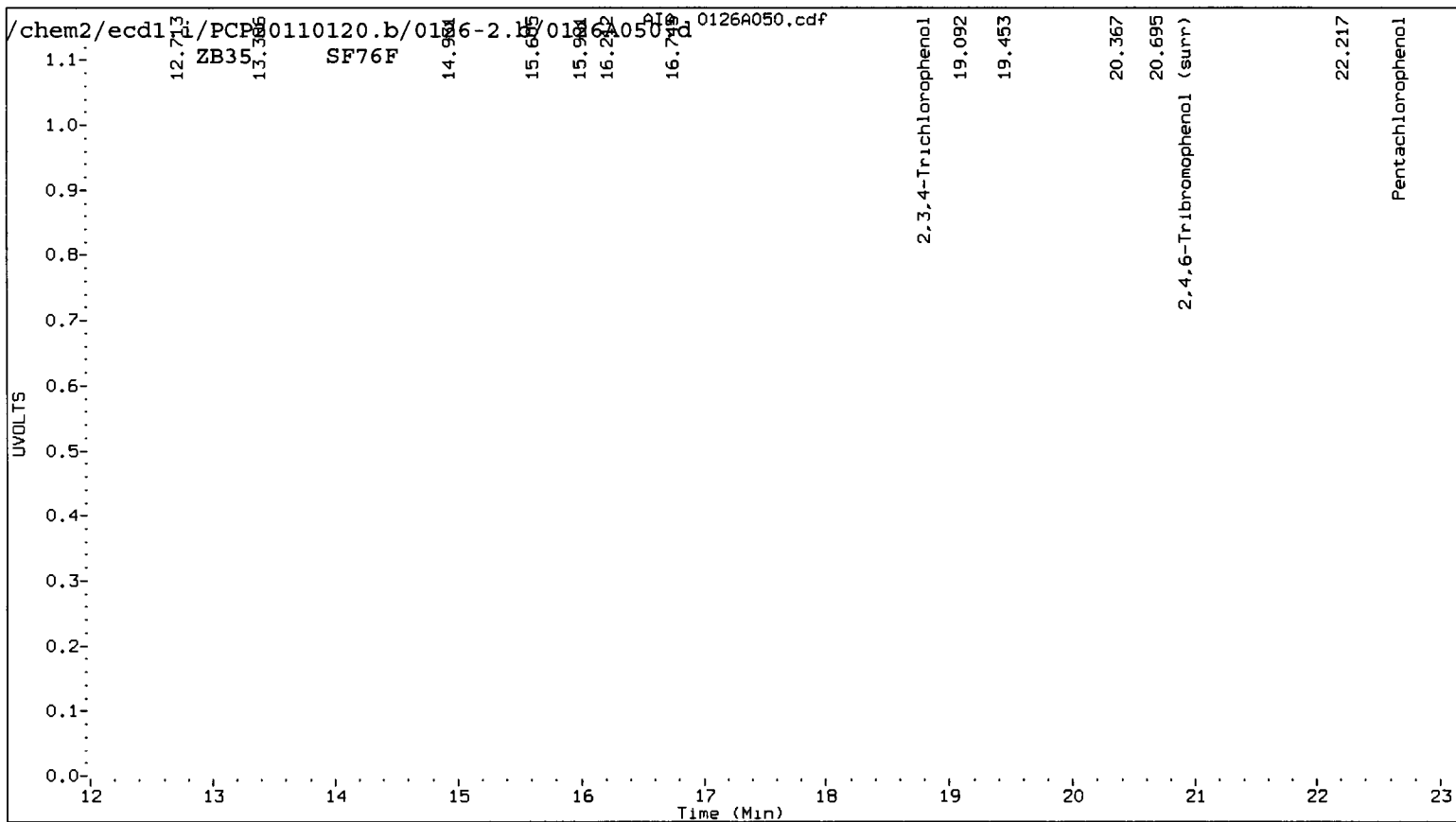
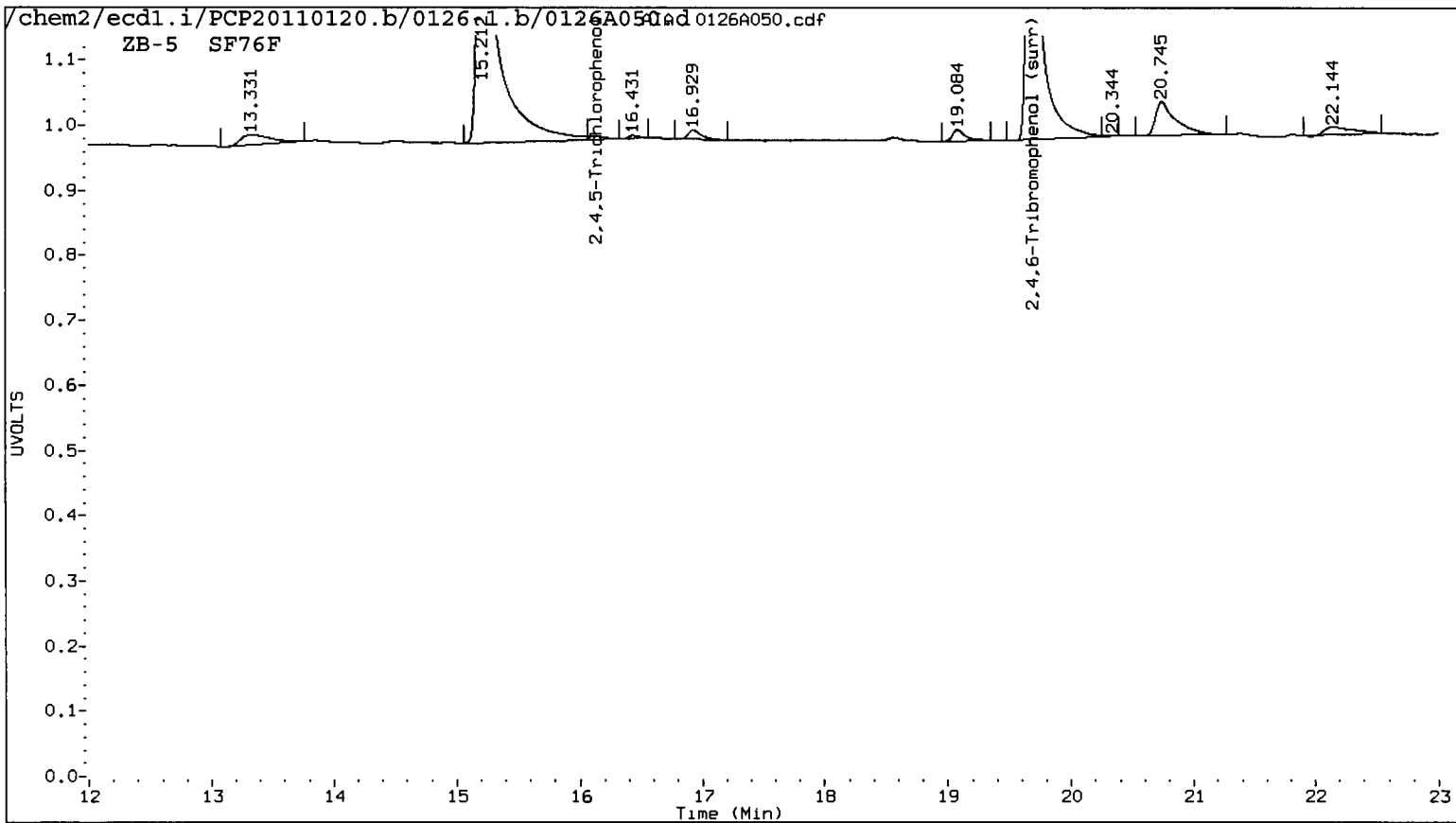
AR 1/27/2011

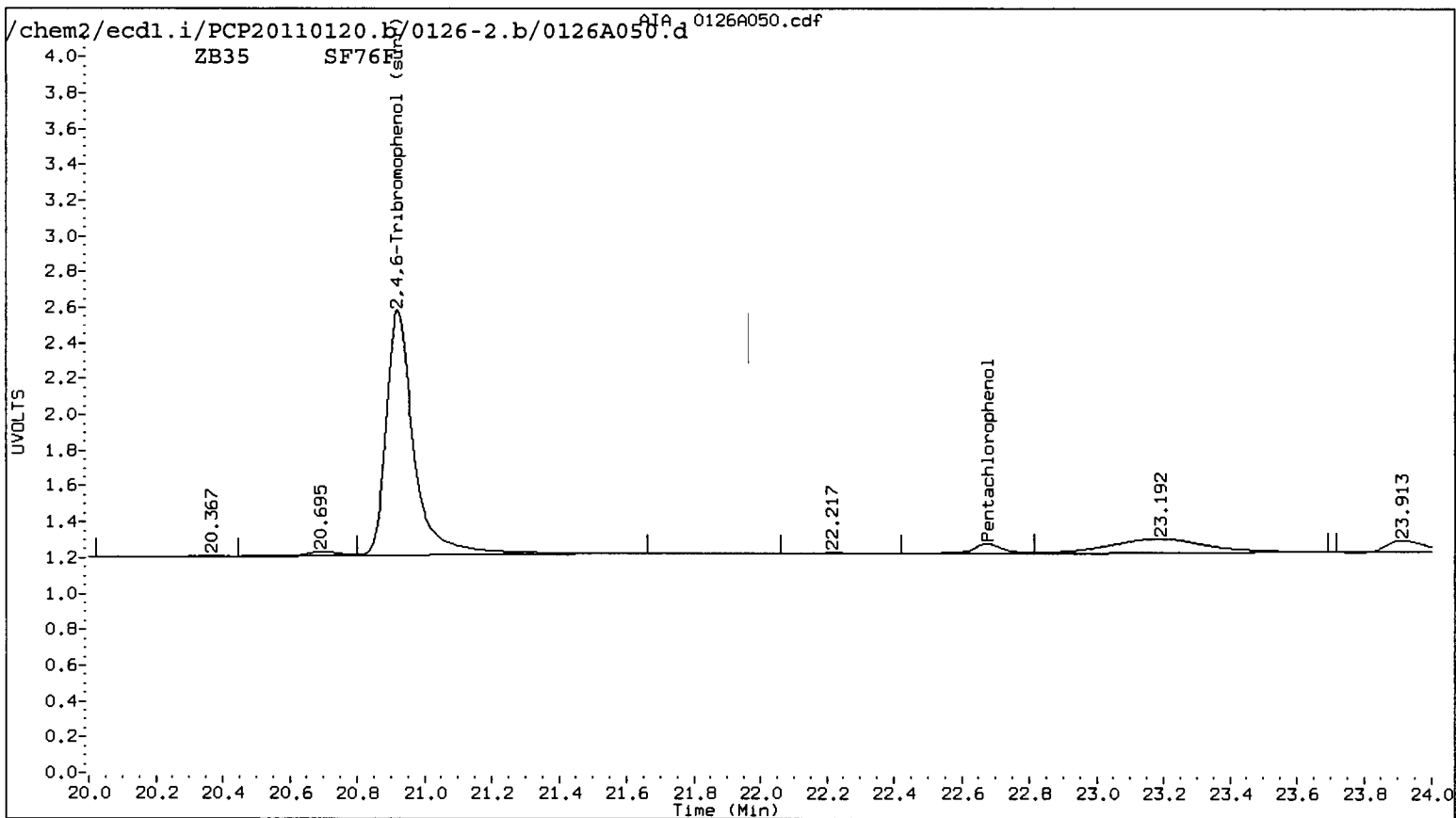
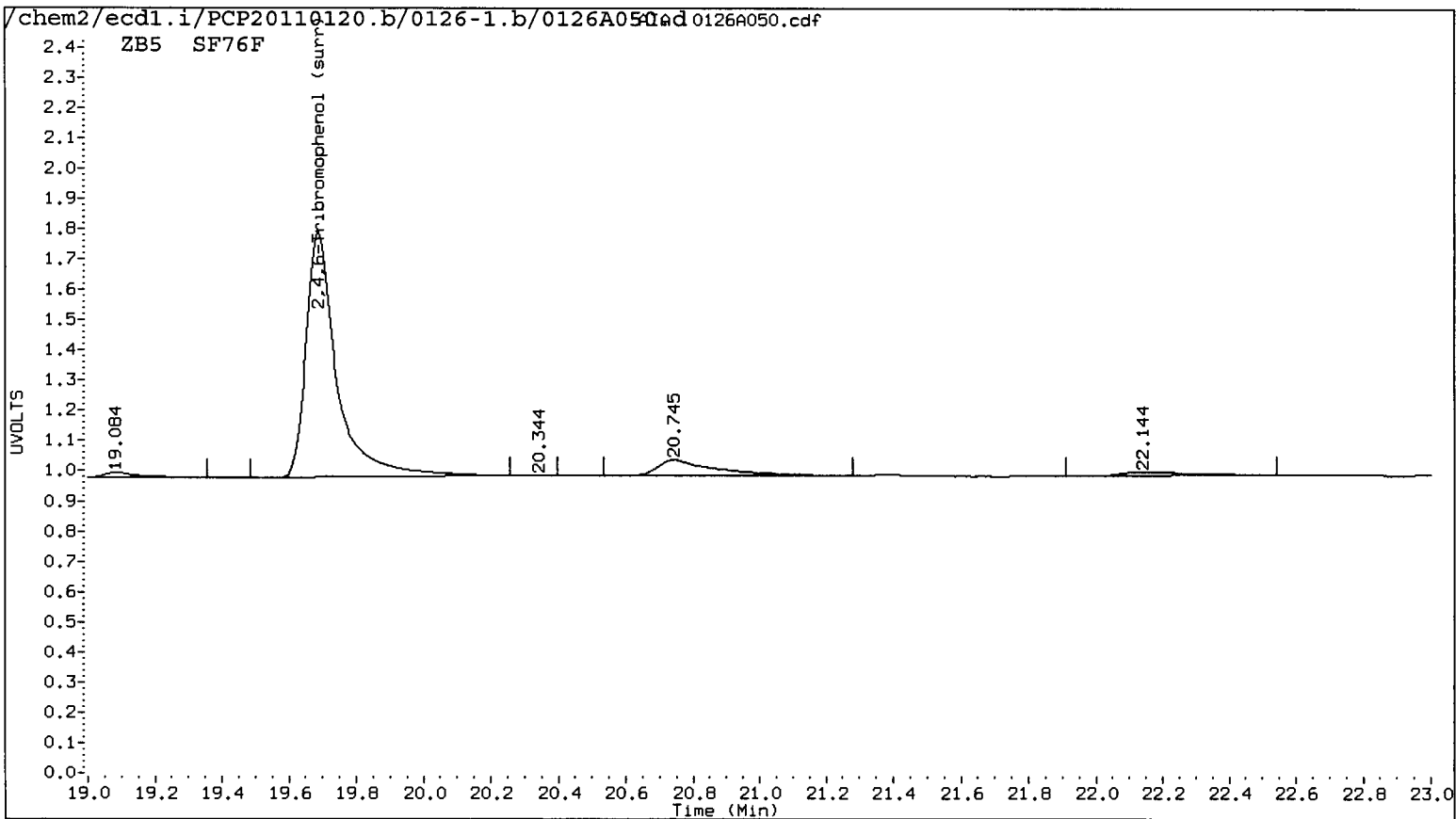
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 Data file 2: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A050.d Client ID: MW-08-012111
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 27-JAN-2011 12:44
 Compound Sublist: all Report Date: 01/27/2011 14:54
 Instrument: ecdl.i Matrix: WATER
 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		
----			22.675	0.014	16626	0.0000	0.6341	---	Pentachlorophenol
----			----			0.0000	0.0000	---	2,4,6-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,6-Trichlorophenol
16.133	0.023	2607	----			0.5513	0.0000	---	2,4,5-Trichlorophenol
----			18.797	0.043	650	0.0000	0.0706	---	2,3,4-Trichlorophenol
----			----			0.0000	0.0000	---	2,3,5,6-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,3,4,5-Tetrachlorophenol
----			----			0.0000	0.0000	---	2,4-Dichlorophenol
19.688	0.028	258834	20.921	0.018	389232	20.1	19.4	3.2	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

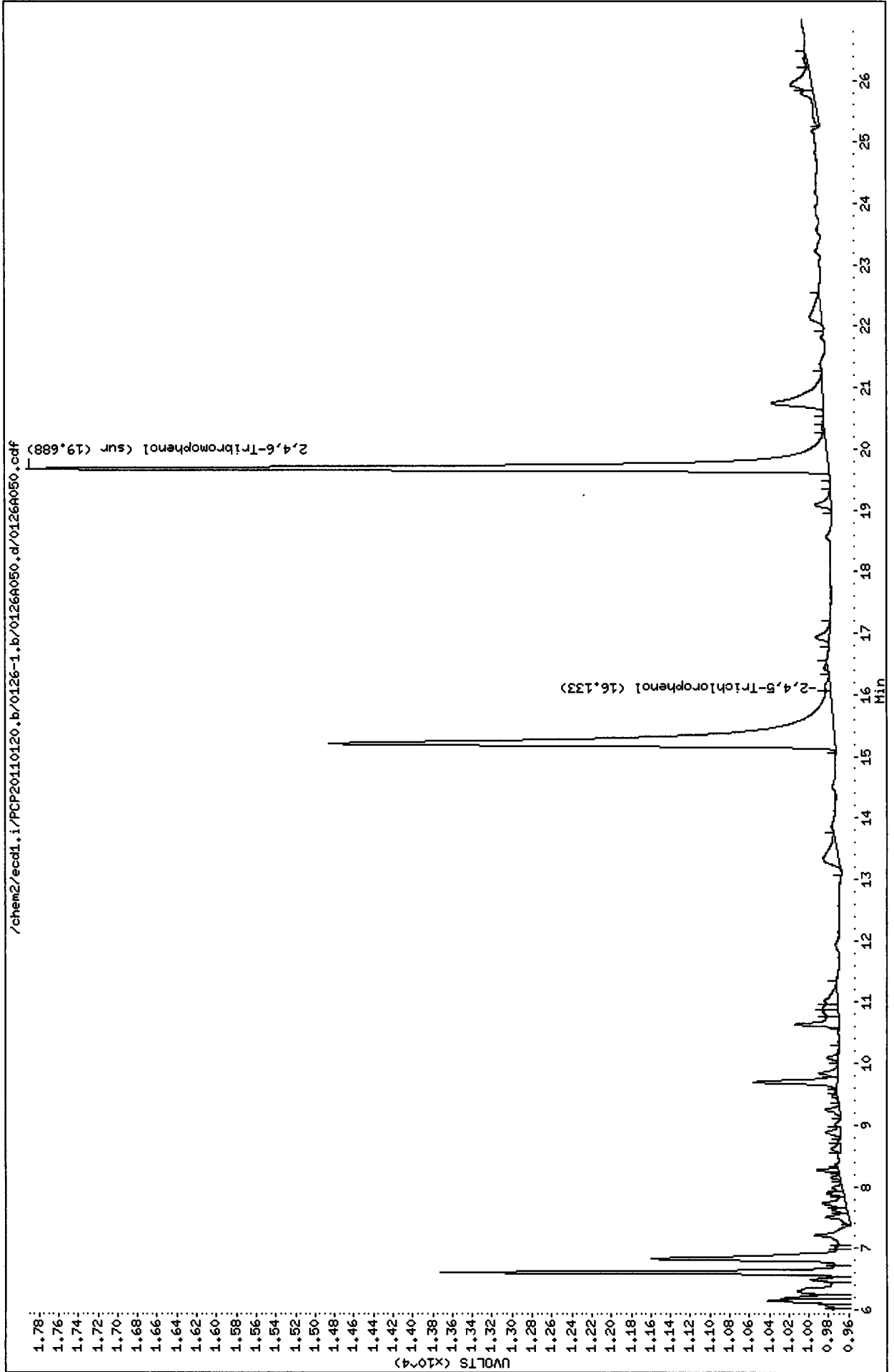
COMPOUND	Col1	Col2
2,4,6-TBP (surr)	80.3	77.8





Data File: /chem2/ecdl1.i/PCFP20110120.b/0126-1.b/0126A050.d
Date : 27-JAN-2011 12:44
Client ID: MW-08-012111
Sample Info: SF76F
Purge Volume: 2.0
Column phase: ZB5

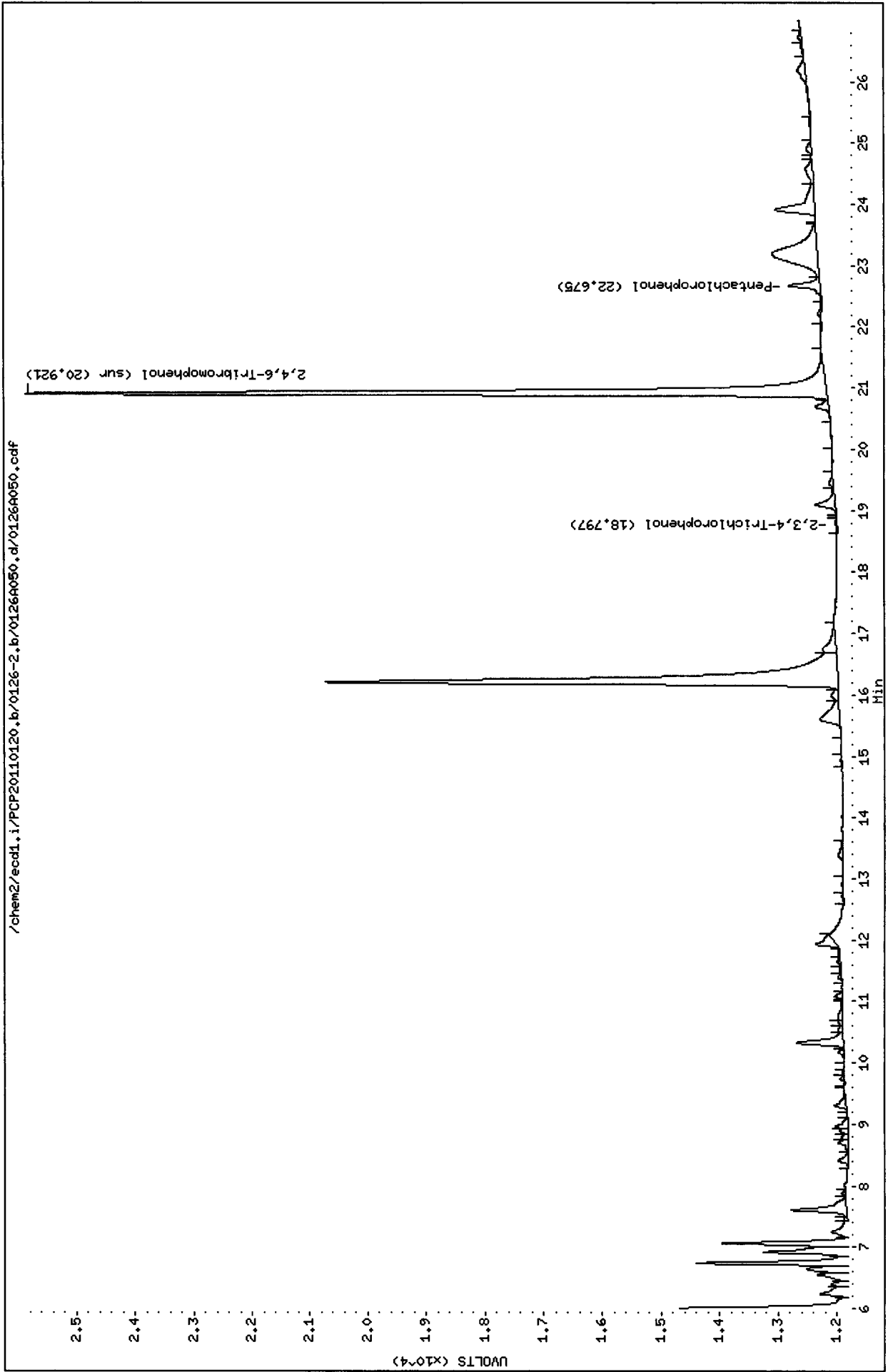
Instrument: eccl.i
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A050.d
Date : 27-JAN-2011 12:44
Client ID: MM-08-012111
Sample Info: SF76F
Purge Volume: 2.0
Column phase: ZB35

Instrument: ecdl.i

Operator: ar
Column diameter: 0.53



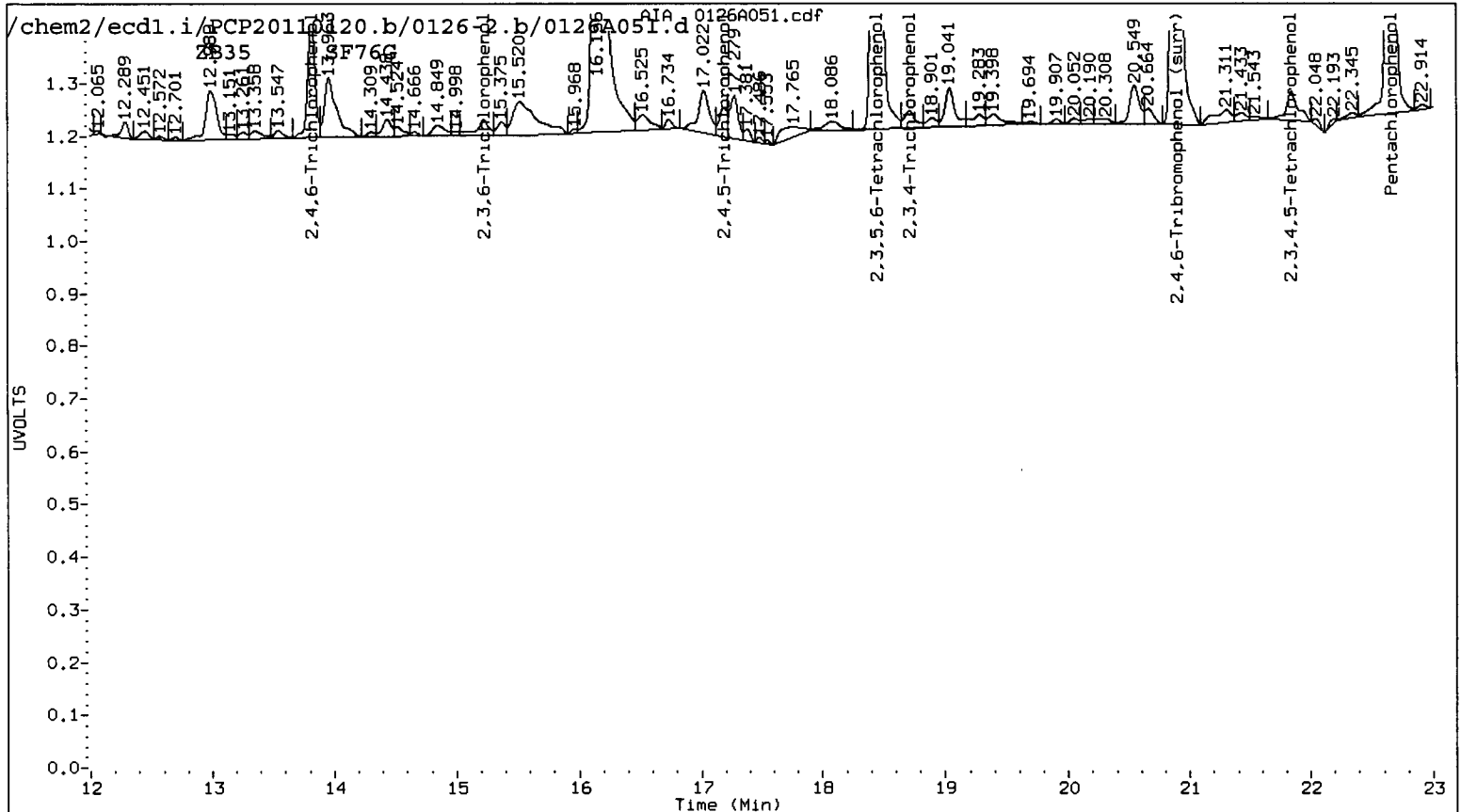
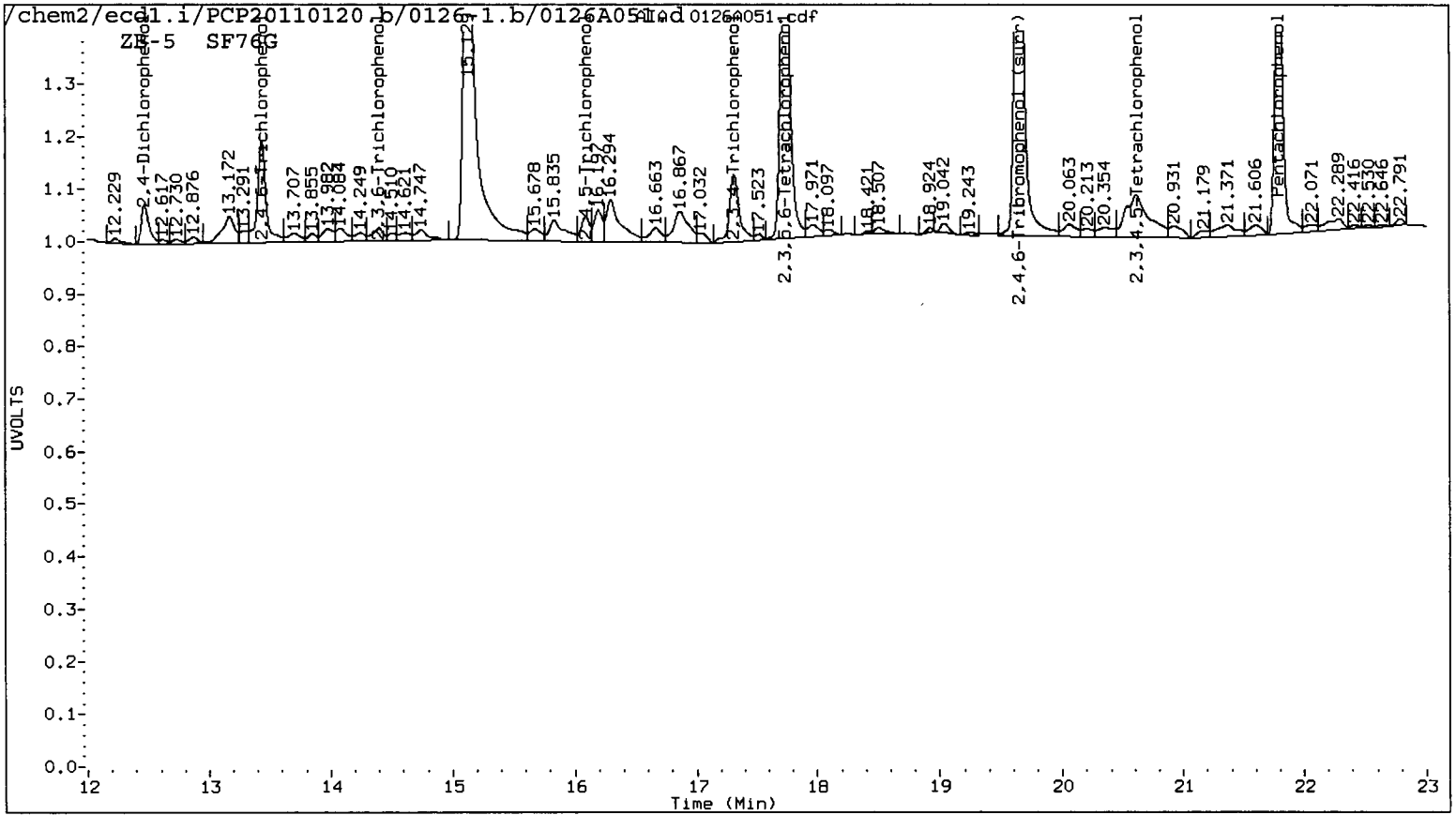
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

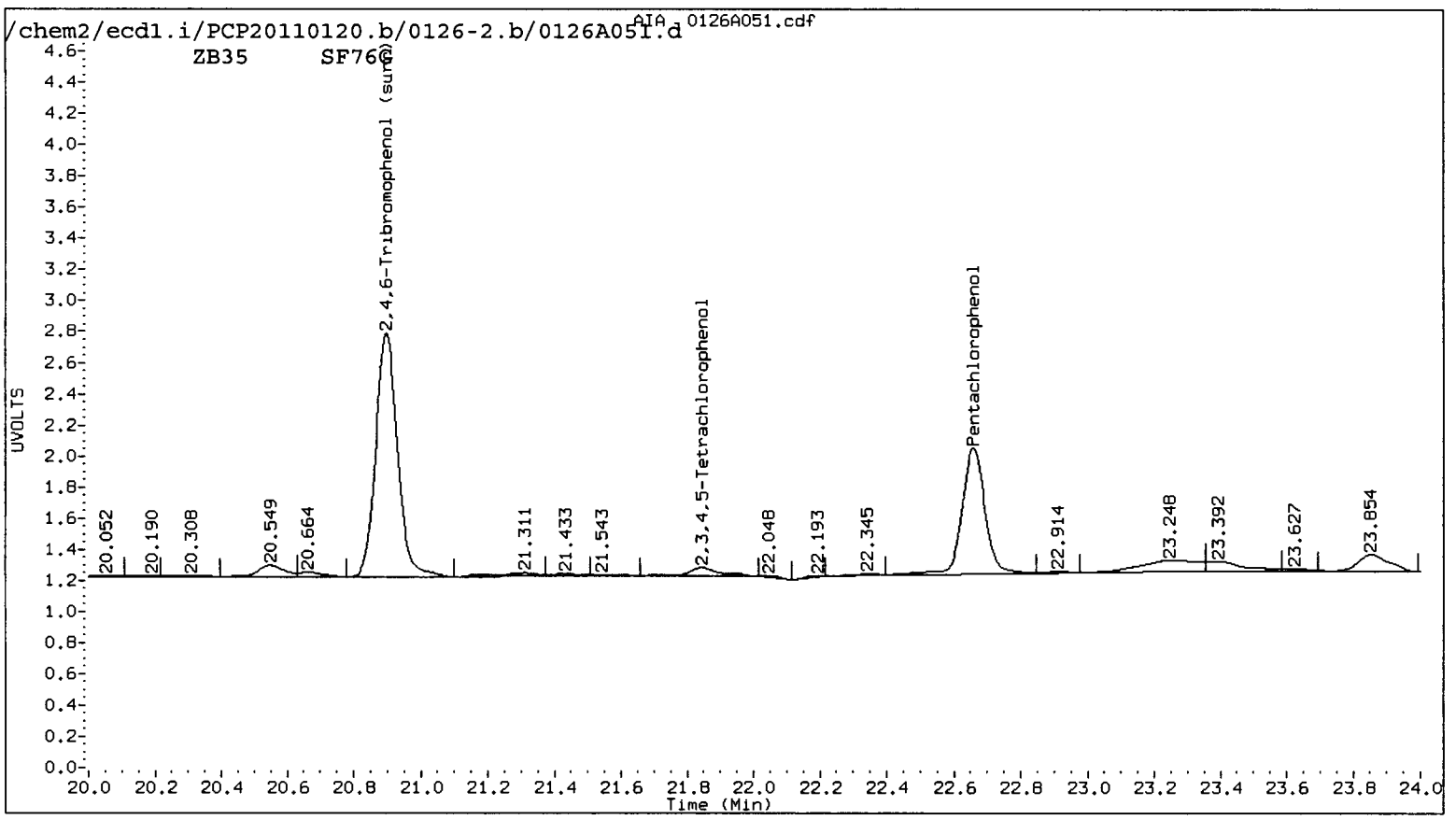
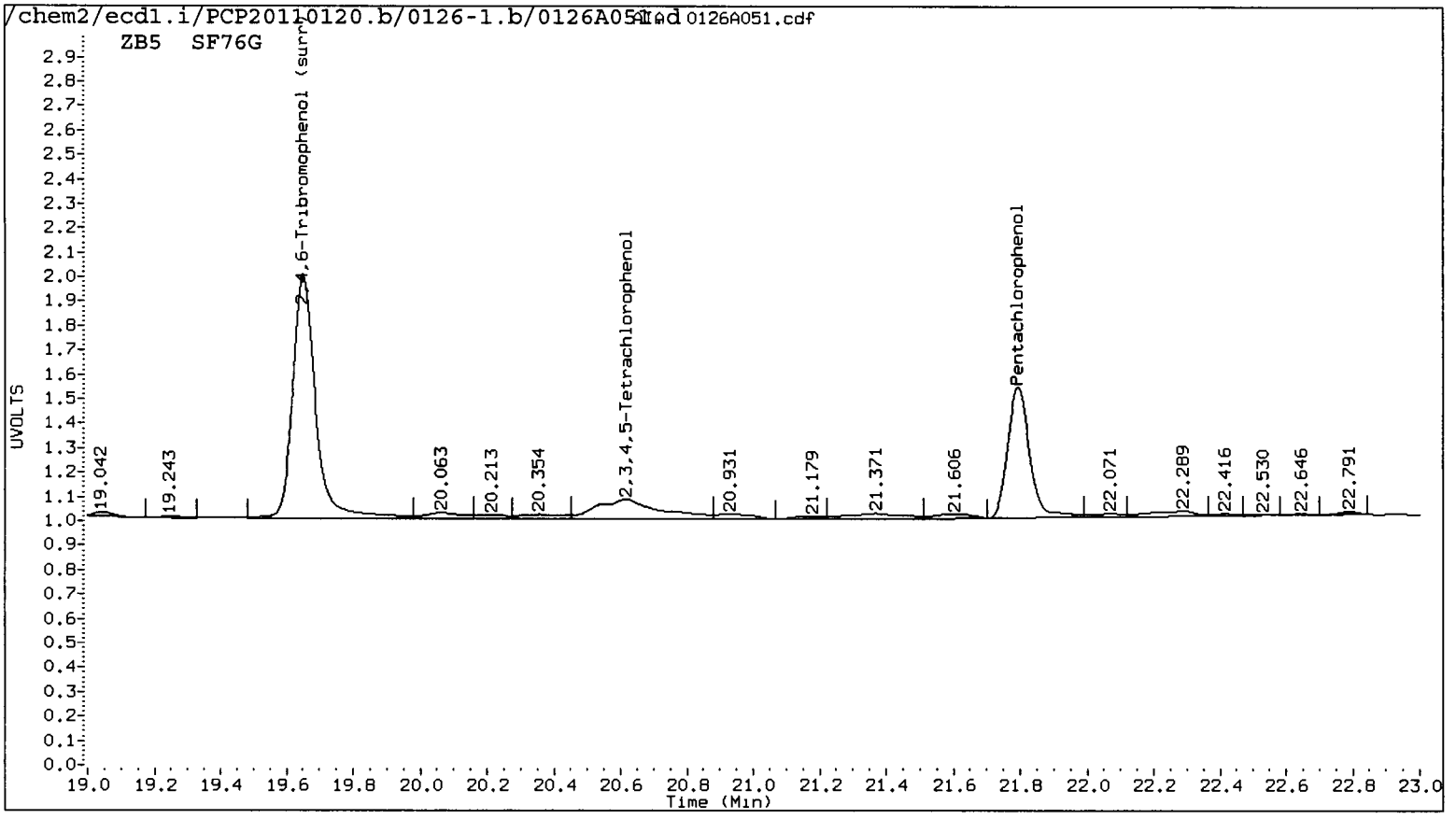
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 Data file 2: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A051.d Client ID: MW-01-012111
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 27-JAN-2011 13:20
 Compound Sublist: all Report Date: 01/27/2011 14:54
 Instrument: ecd1.i Matrix: WATER
 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		
21.795	-0.003	123580	22.659	-0.003	194723	7.6178	7.4263	2.5	Pentachlorophenol
13.434	0.004	48462	13.820	0.003	48814	4.6532	3.3048	33.9	2,4,6-Trichlorophenol
14.400	0.002	7461	15.226	0.003	10394	0.8197	0.7573	7.9	2,3,6-Trichlorophenol
16.093	-0.017	11676	17.191	-0.001	13048	2.4688	1.6200	41.5*	2,4,5-Trichlorophenol
17.316	-0.040	36422	18.716	-0.039	10300	5.7452	1.1182	134.8*	2,3,4-Trichlorophenol
17.736	-0.004	213969	18.447	-0.003	331954	15.3405	15.7357	2.5	2,3,5,6-Tetrachlorophenol
20.617	0.069	53477	21.843	-0.003	18690	5.0449	1.1648	125.0*	2,3,4,5-Tetrachlorophenol
12.470	0.017	16950	----			27.4853	0.0000	---	2,4-Dichlorophenol
19.651	-0.009	241101	20.897	-0.005	356507	18.7	17.8	4.9	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
2,4,6-TBP (surr)	74.8	71.2

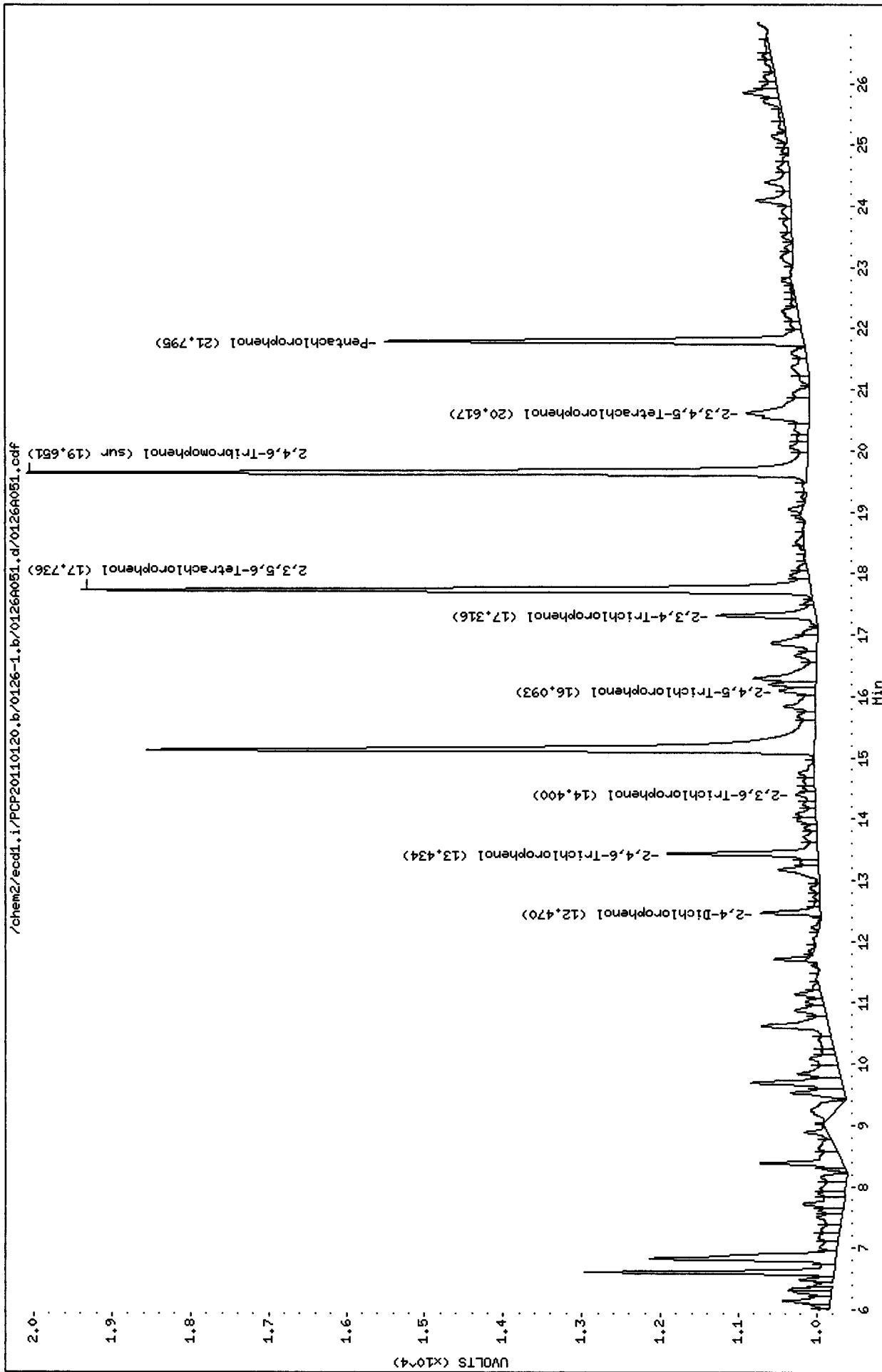




Data File: /chem2/eod1.i/PCP20110120.b/0126-1.b/0126A051.d
Date : 27-JAN-2011 13:20
Client ID: MN-01-012111
Sample Info: SF76G
Purge Volume: 2.0
Column phase: ZB5

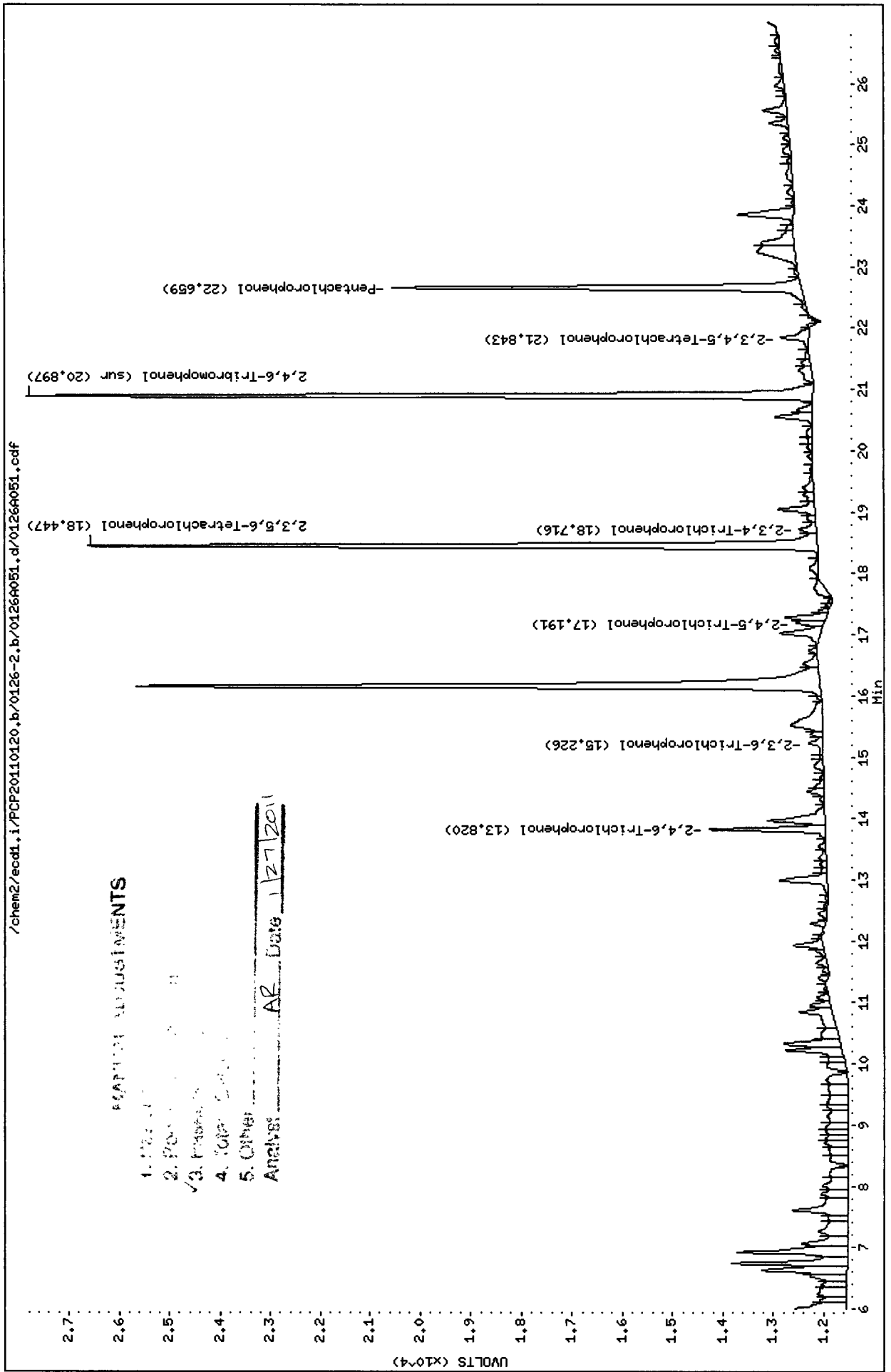
Instrument: eod1.i

Operator: ar
Column diameter: 0.53



Data File: /chem2/eod1.i/PCP20110120.b/0126-2.b/0126A051.d
Date: 27-JAN-2011 13:20
Client ID: MN-01-012111
Sample Info: SF76G
Purge Volume: 2.0
Column phase: ZB35

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

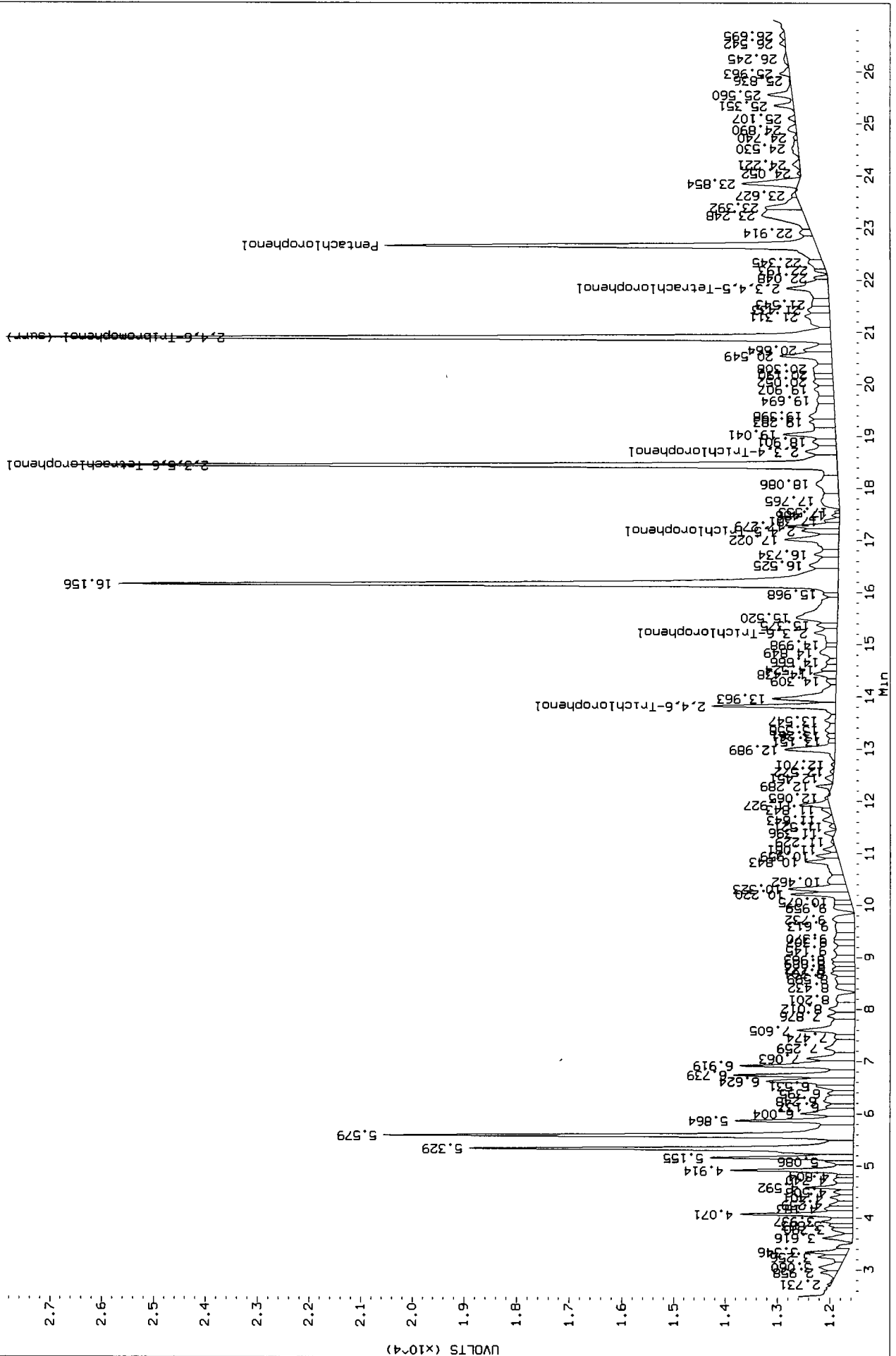


MAPTCH1 ADJUSTMENTS
1. 1.26
2. 1.26
3. 1.26
4. 1.26
5. Other
Analysis AR Date 1/27/2011

Data File: /chem2/ecdl1/PCP20110120.b/0126-2.b/0126A051.d/0126A051.cdf
Injection Date: 27-JAN-2011 13:20
Instrument: ecdl1
Client Sample ID: MW-01-012111

AR 12/7/2011 Before

AIA 0126A051.cdf: 2.500 to 26.997 Min



Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

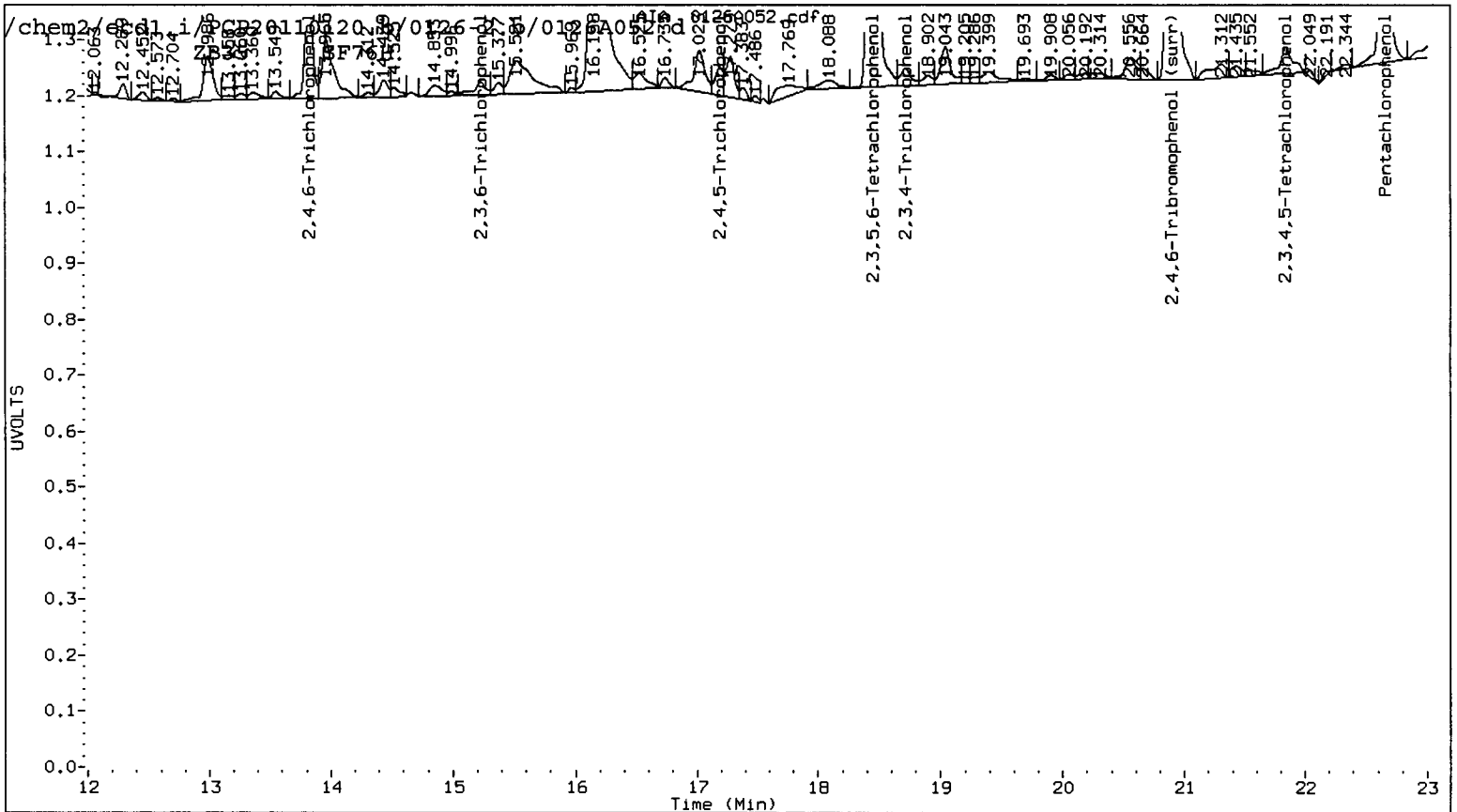
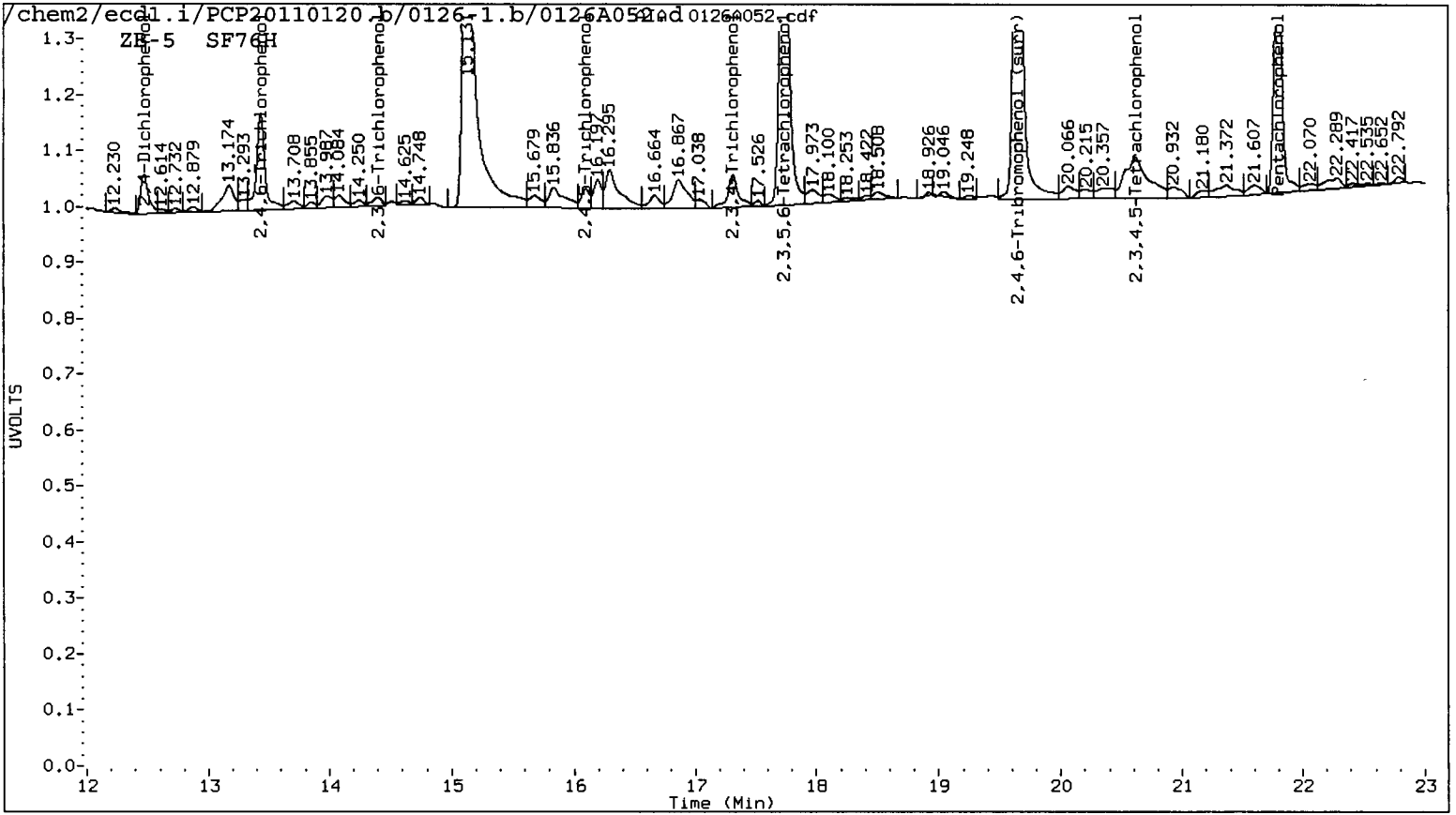
AR 1/27/2011

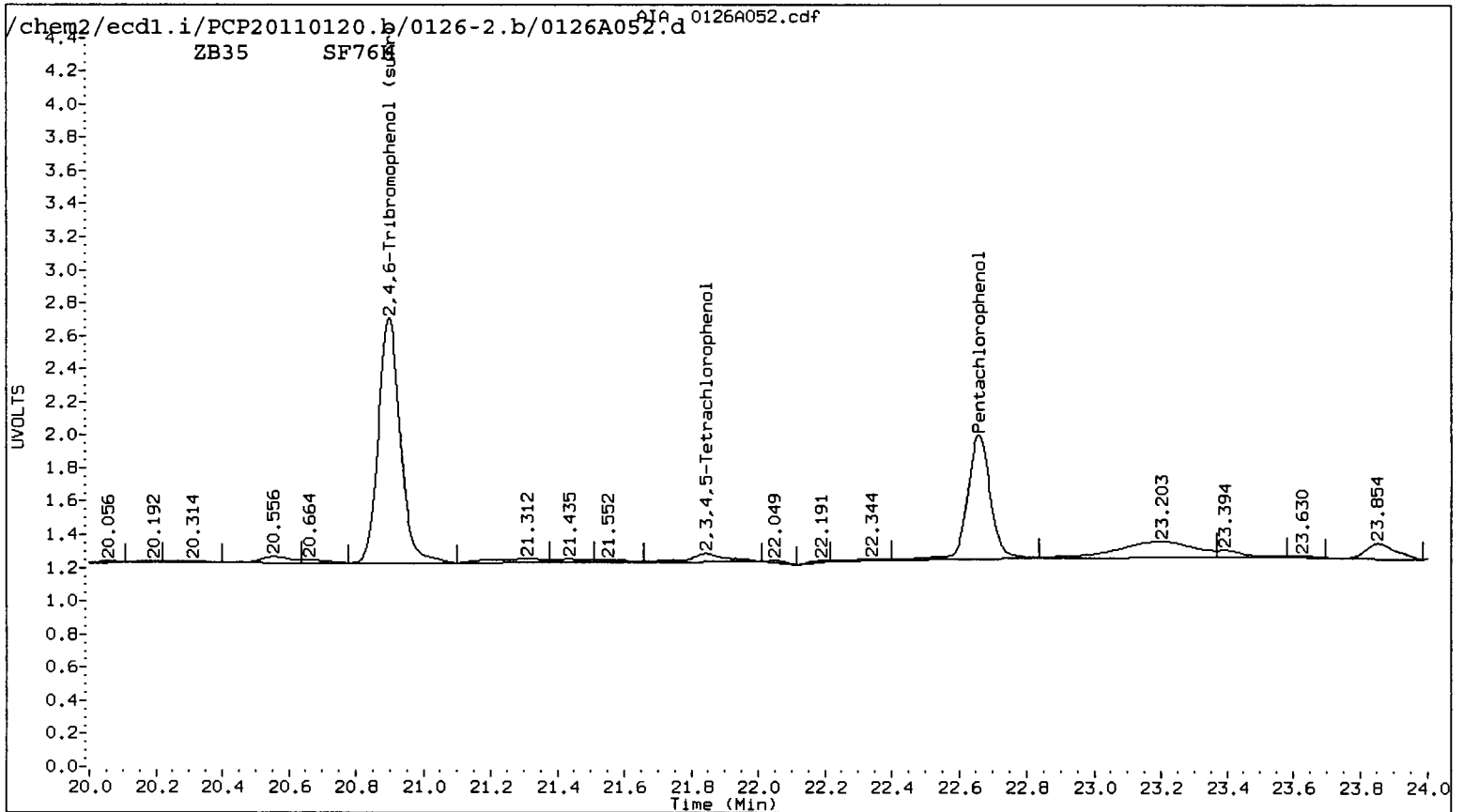
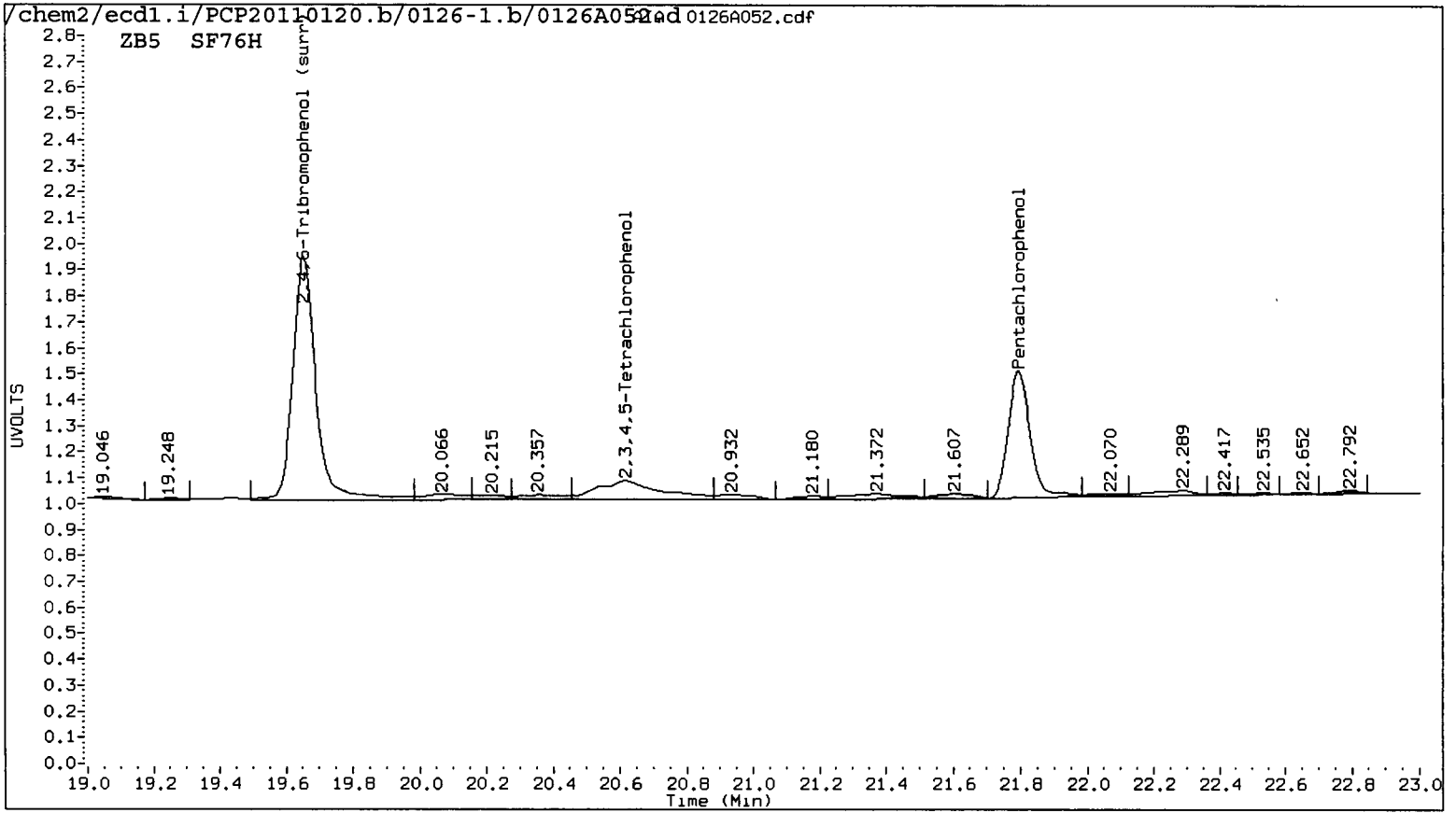
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 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 27-JAN-2011 13:57
 Compound Sublist: all Report Date: 01/27/2011 15:11
 Instrument: ecdl.i Matrix: WATER
 Operator: ar Dilution Factor: 1.000

ZB-5 Col			ZB35 Col			ZB-5	ZB35	RPD	Compound
RT	Shift	Response	RT	Shift	Response	on col	on col		
21.795	-0.003	110975	22.659	-0.003	173003	6.8408	6.5980	3.6	Pentachlorophenol
13.435	0.005	42395	13.821	0.004	45068	4.0569	3.0512	28.3	2,4,6-Trichlorophenol
14.402	0.004	4218	15.228	0.004	8277	0.4634	0.6031	26.2	2,3,6-Trichlorophenol
16.098	-0.013	8252	17.194	0.002	11878	1.7450	1.4747	16.8	2,4,5-Trichlorophenol
17.315	-0.041	18289	18.717	-0.038	9718	2.8849	1.0550	92.9*	2,3,4-Trichlorophenol
17.737	-0.003	202827	18.449	-0.002	312109	14.5416	14.7950	1.7	2,3,5,6-Tetrachlorophenol
20.617	0.069	49636	21.844	-0.003	18334	4.6826	1.1426	121.5*	2,3,4,5-Tetrachlorophenol
12.473	0.020	15417	----			24.9430	0.0000	---	2,4-Dichlorophenol
19.653	-0.007	226980	20.898	-0.004	334913	17.6	16.7	5.1	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

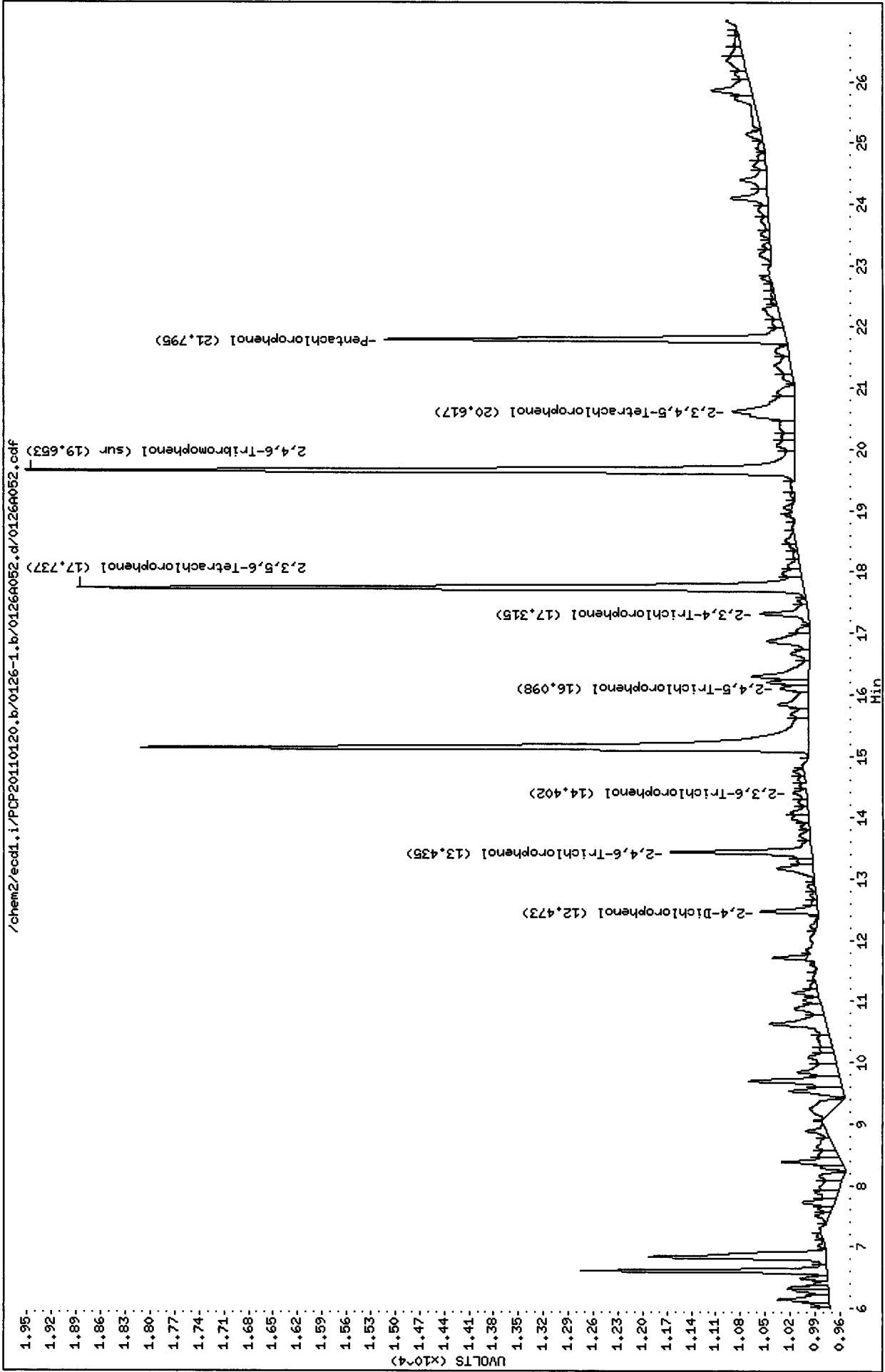
COMPOUND	Col1	Col2
2,4,6-TBP (surr)	70.4	66.9





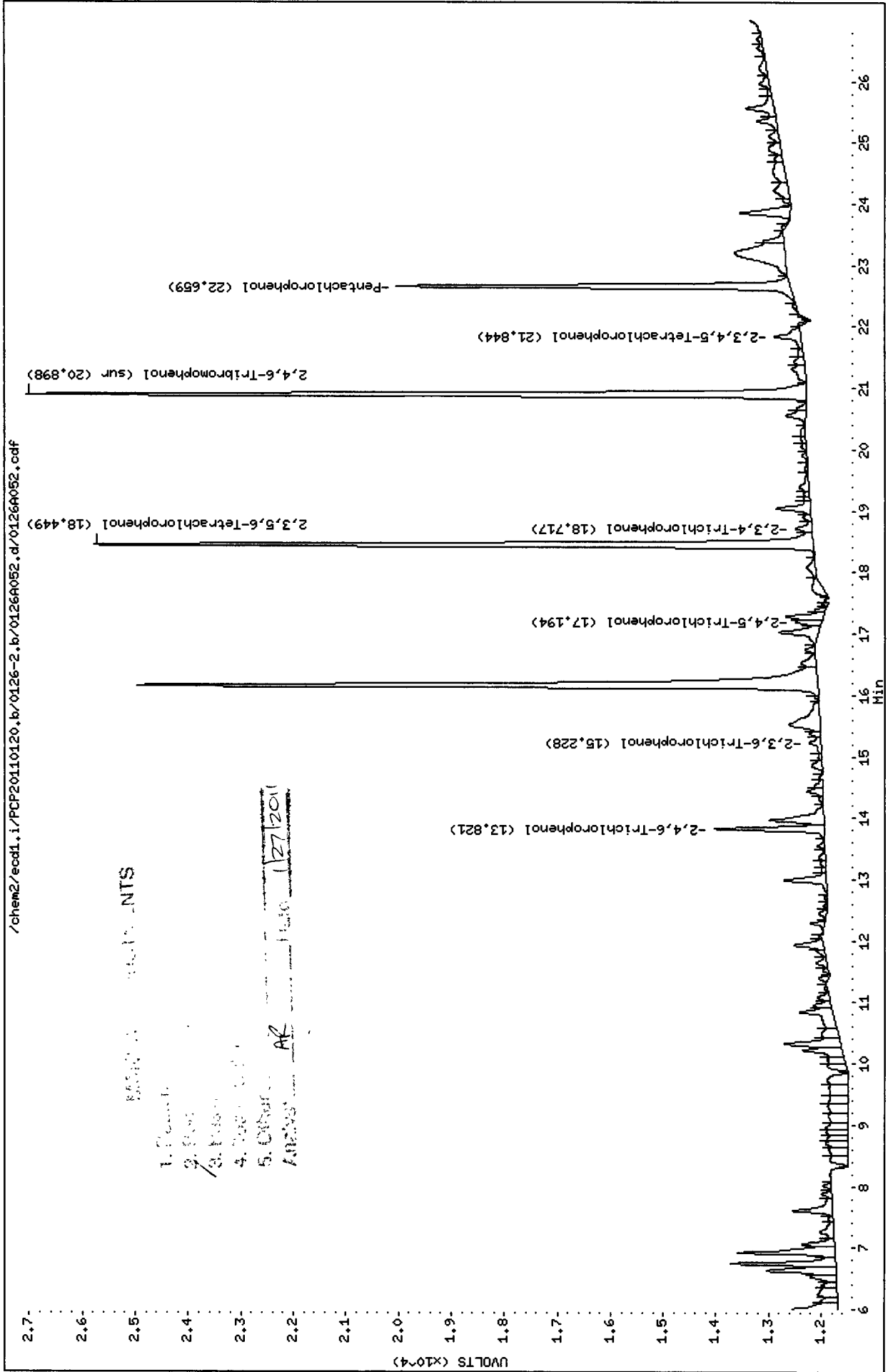
SF26:01120

Data File: /chem2/ecdl1.i/PCP20110120.b/0126-1.b/0126A052.d
Date : 27-JAN-2011 13:57
Client ID: MW-01-012111-D
Sample Info: SF76H
Purge Volume: 2.0
Column phase: ZB5
Instrument: ecdl.i
Operator: ar
Column diameter: 0.53



Data File: /chem2/ecd1.1/PCP20110120.b/0126-2.b/0126A052.d
 Date : 27-JAN-2011 13:57
 Client ID: MM-01-012111-D
 Sample Info: SF76H
 Purge Volume: 2.0
 Column phase: ZB35

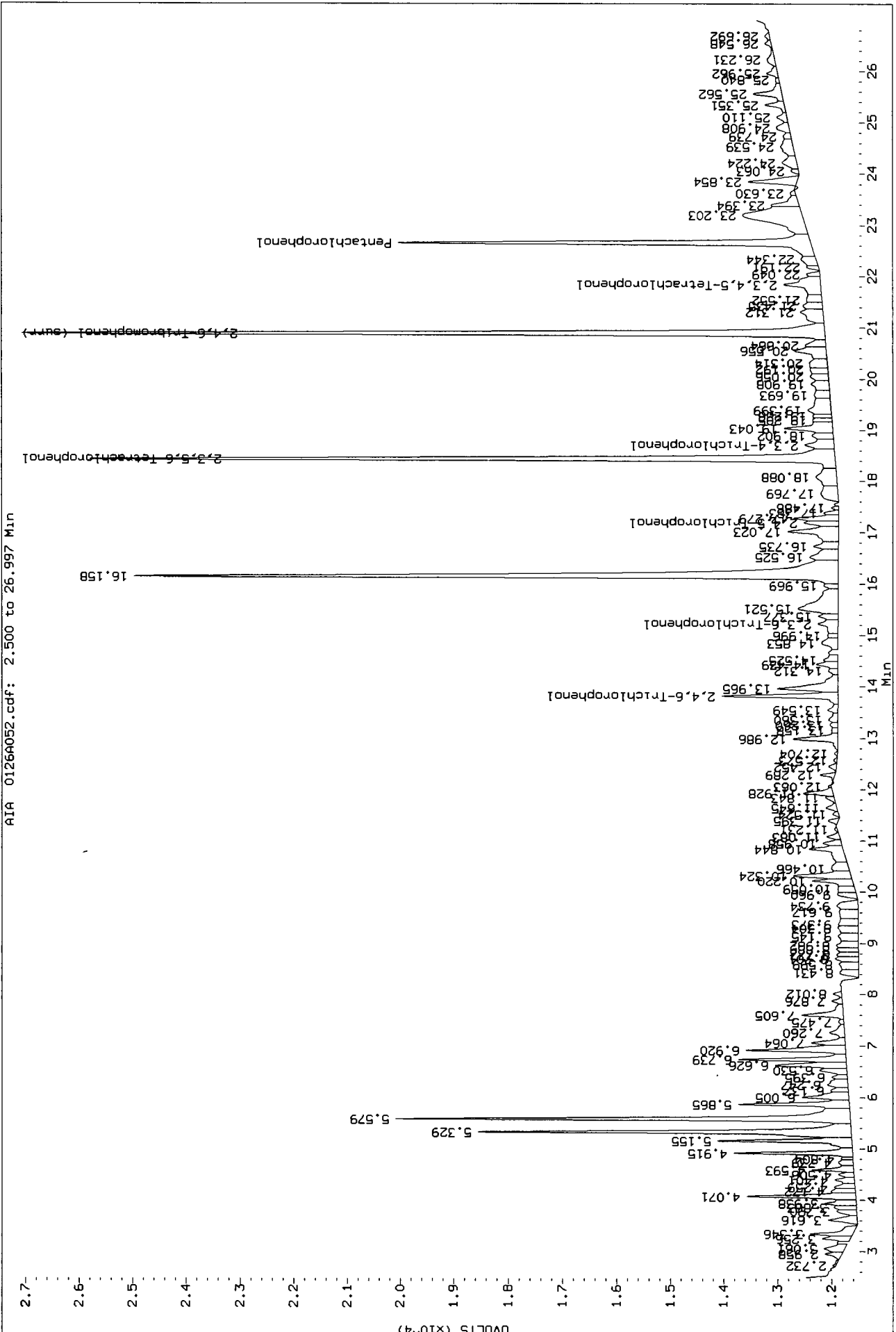
Instrument: ecd1.i
 Operator: ar
 Column diameter: 0.53



REMARKS: RESULTS

1. Found
2. Not
3. Found
4. Not
5. Other

ANALYST: AR
 DATE: 1/27/2011



Data File: /chem2/ecdl1/PCF20110120.b/0126-2.b/0126A052.d/0126A052.cdf
 Injection Date: 27-JAN-2011 13:57
 Instrument: eccl1.1
 Client Sample ID: MM-01-012111-D

R/A 0126A052.cdf: 2.500 to 26.997 Min
AR 12712011 Before

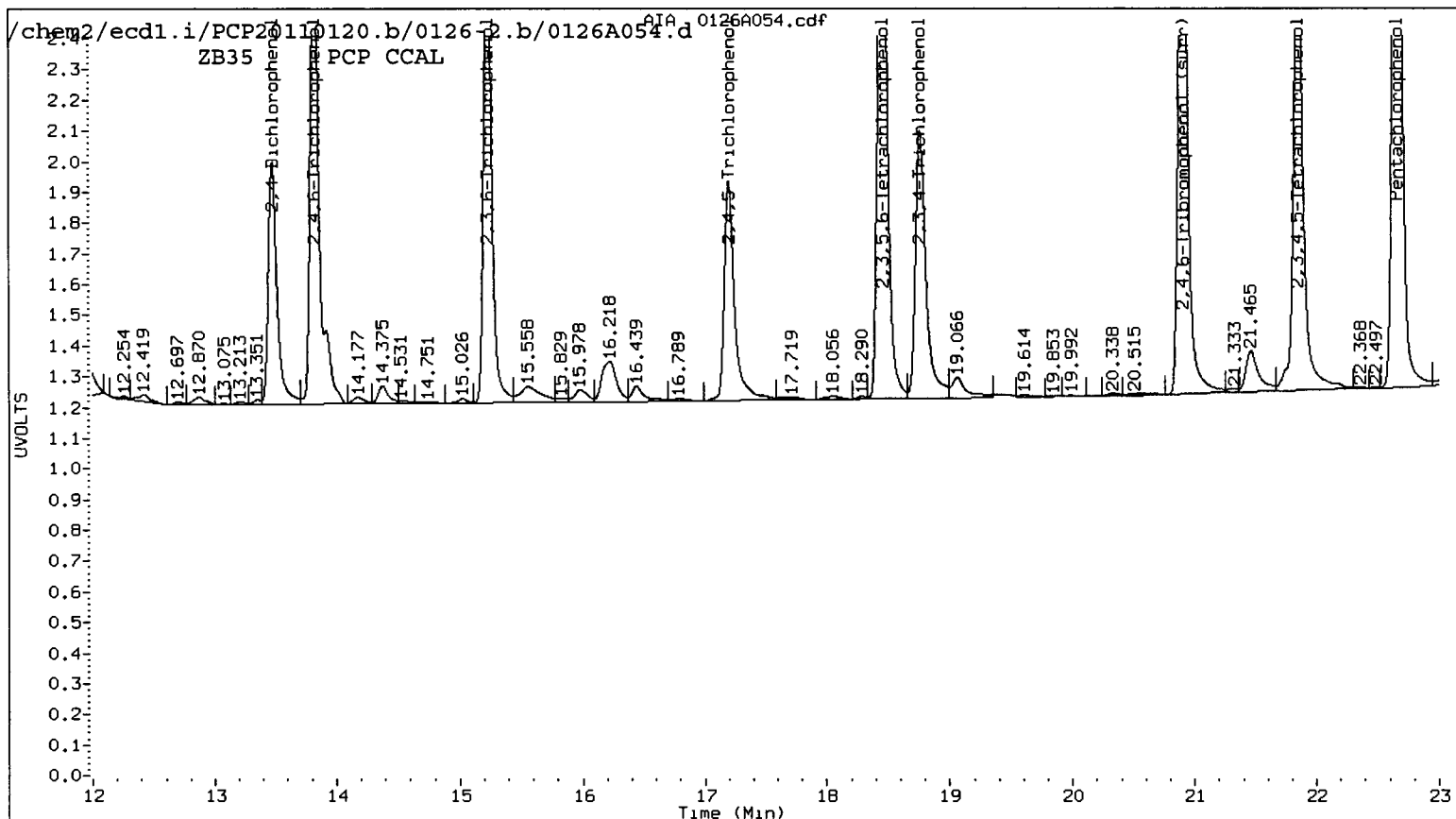
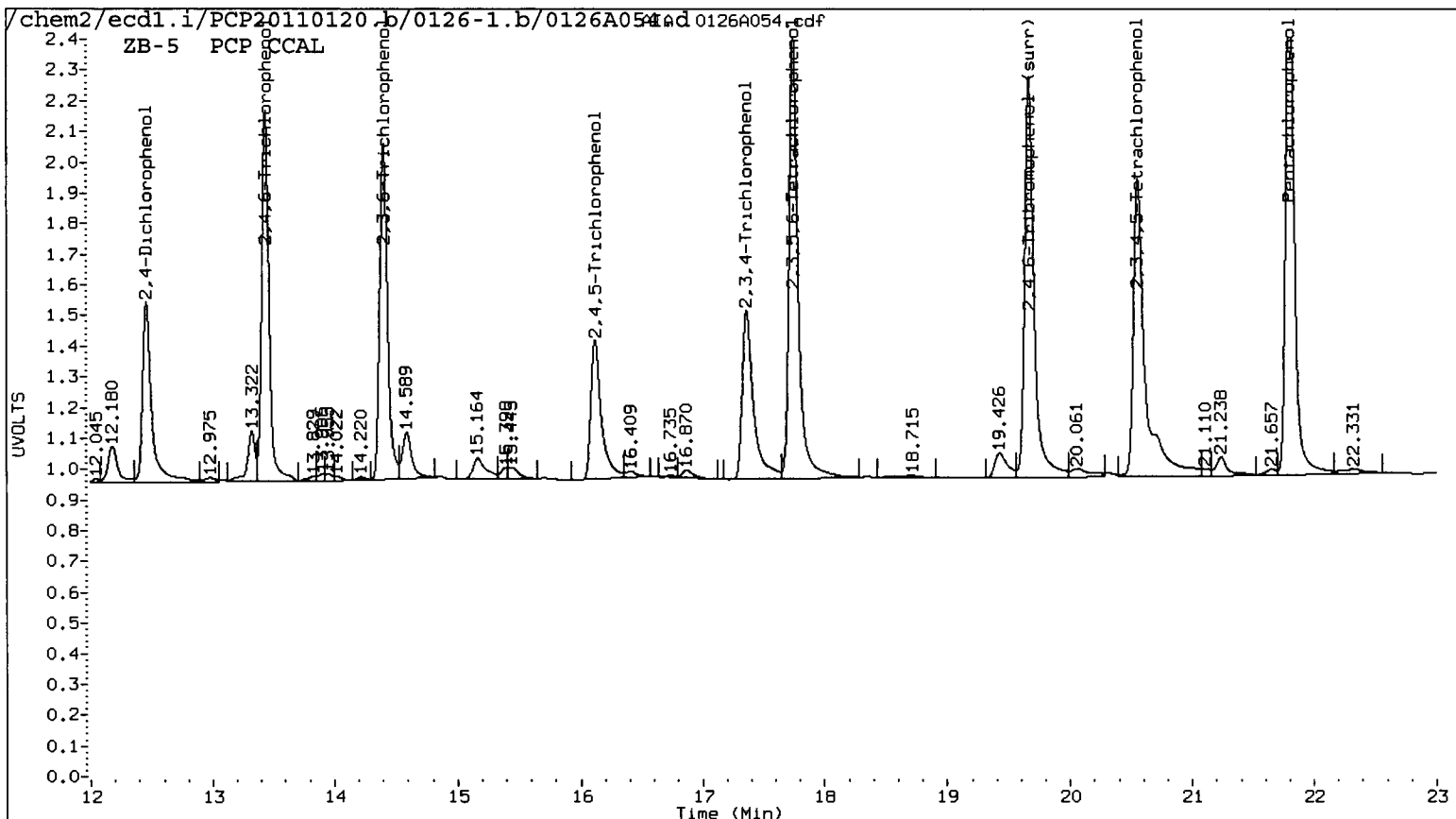
Analytical Resources Inc.
Dual Column 8041 Chlorinated Phenols Quantitation Report

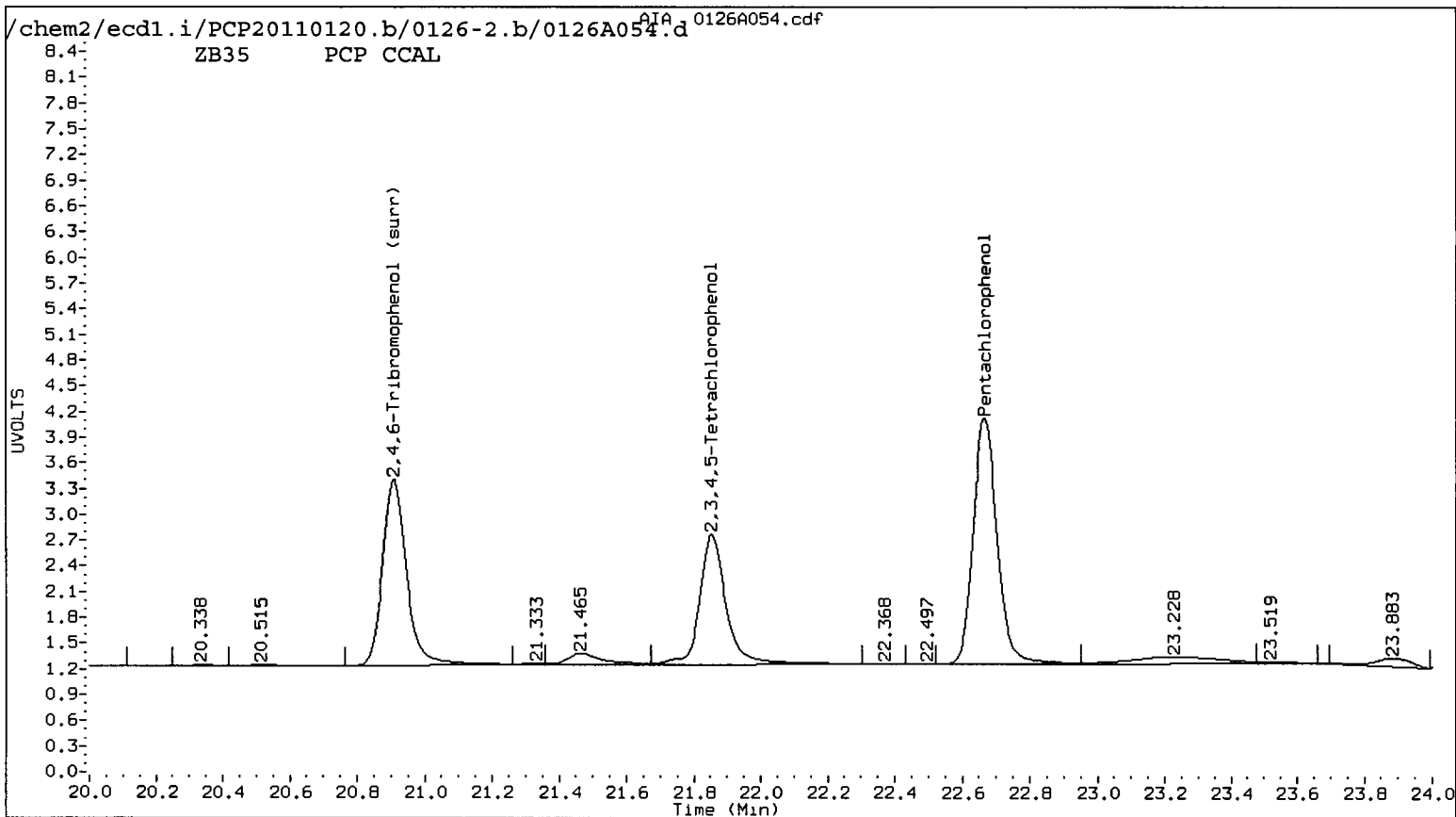
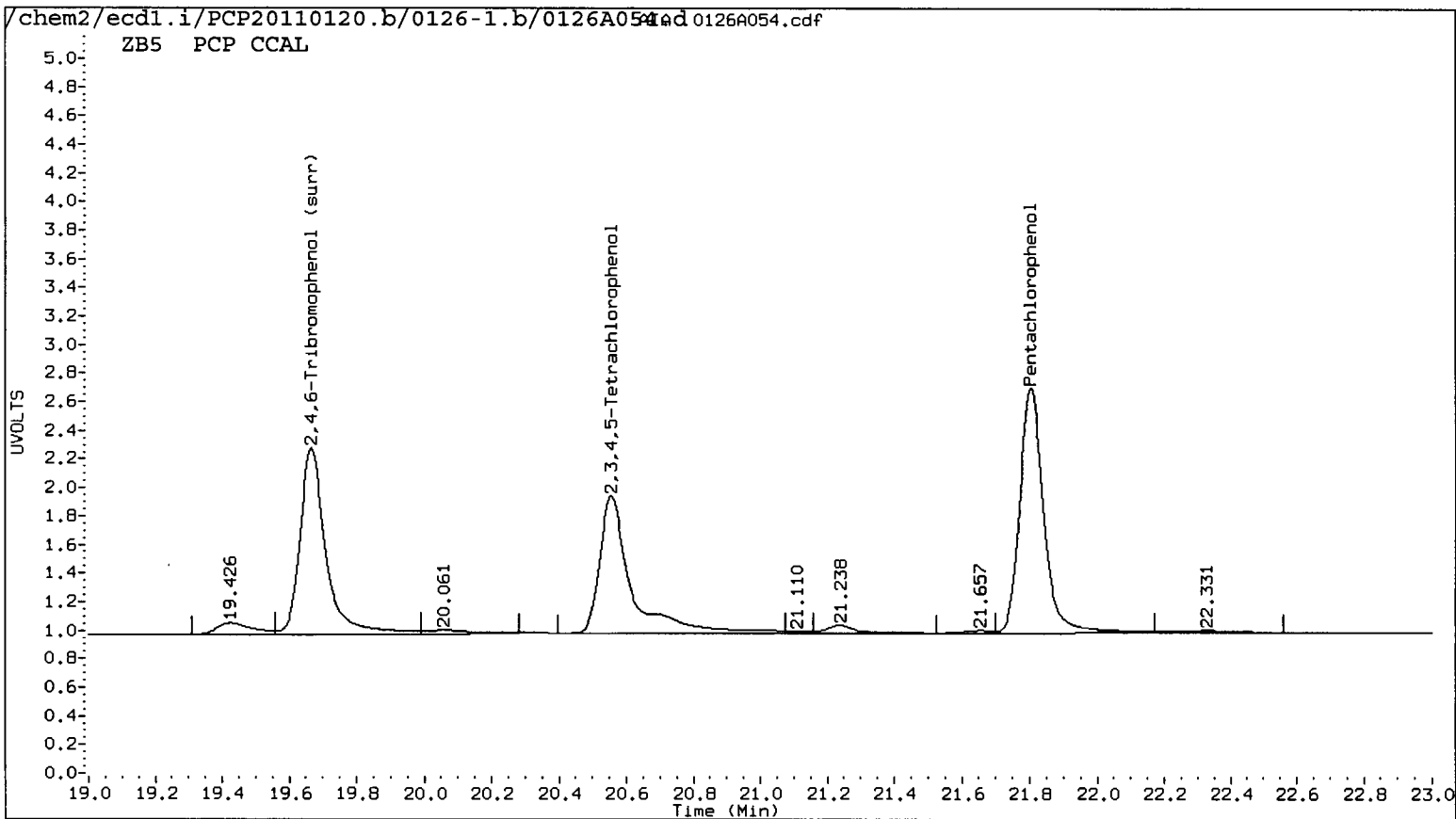
Data file 1: /chem2/ecdl.i/PCP20110120.b/0126-1.b/0126A054.d ARI ID: PCP CCAL
 Data file 2: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A054.d Client ID:
 Method: /chem2/ecdl.i/PCP20110120.b/PCP.m Injection Date: 27-JAN-2011 15:09
 Compound Sublist: all Report Date: 01/27/2011 16:44
 Instrument: ecdl.i 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		
21.805	0.006	425445	22.665	0.004	700326	26.2256	26.7090	1.8	Pentachlorophenol
13.434	0.004	255651	13.821	0.004	420789	27.3780	28.4880	4.0	2,4,6-Trichlorophenol
14.403	0.005	236528	15.228	0.005	364045	25.9841	26.5236	2.1	2,3,6-Trichlorophenol
16.118	0.008	134455	17.199	0.007	210384	28.4299	26.1196	8.5	2,4,5-Trichlorophenol
17.363	0.007	175104	18.762	0.007	254609	27.6201	27.6417	0.1	2,3,4-Trichlorophenol
17.747	0.007	371455	18.457	0.006	559507	26.6314	26.5226	0.4	2,3,5,6-Tetrachlorophenol
20.556	0.008	325867	21.853	0.007	425185	30.7412	26.4988	14.8	2,3,4,5-Tetrachlorophenol
12.458	0.005	152625	13.472	0.004	199446	297.6412	261.6983	12.9	2,4-Dichlorophenol
19.666	0.007	349544	20.908	0.005	536303	27.1	26.8	1.2	2,4,6-Tribromophenol (surr)

PERCENT RECOVERY

COMPOUND	Col1	Col2
Pentachlorophenol	104.9	106.8
2,4,6-Trichlorophenol	109.5	114.0
2,3,6-Trichlorophenol	103.9	106.1
2,4,5-Trichlorophenol	113.7	104.5
2,3,4-Trichlorophenol	110.5	110.6
2,3,5,6-Tetrachlorophenol	106.5	106.1
2,3,4,5-Tetrachlorophenol	123.0	106.0
2,4-Dichlorophenol	119.1	104.7
2,4,6-TBP (surr)	108.5	107.2





Data File: /chem2/ecdl.i/PCP20110120.b/0126-2.b/0126A054.d

Date : 27-JAN-2011 15:09

Client ID:

Sample Info: PCP CCAL

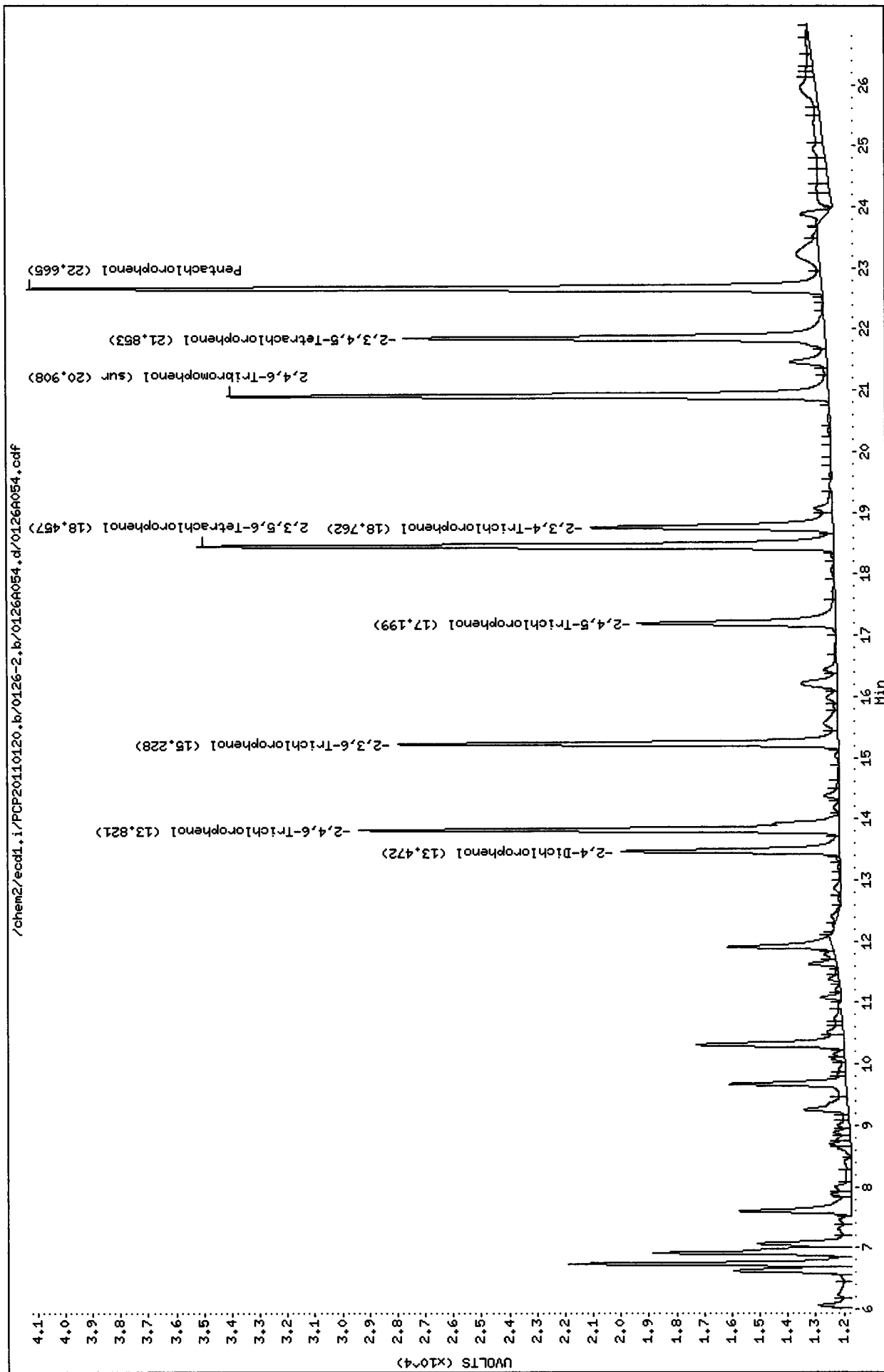
Purge Volume: 2.0

Column phase: ZB35

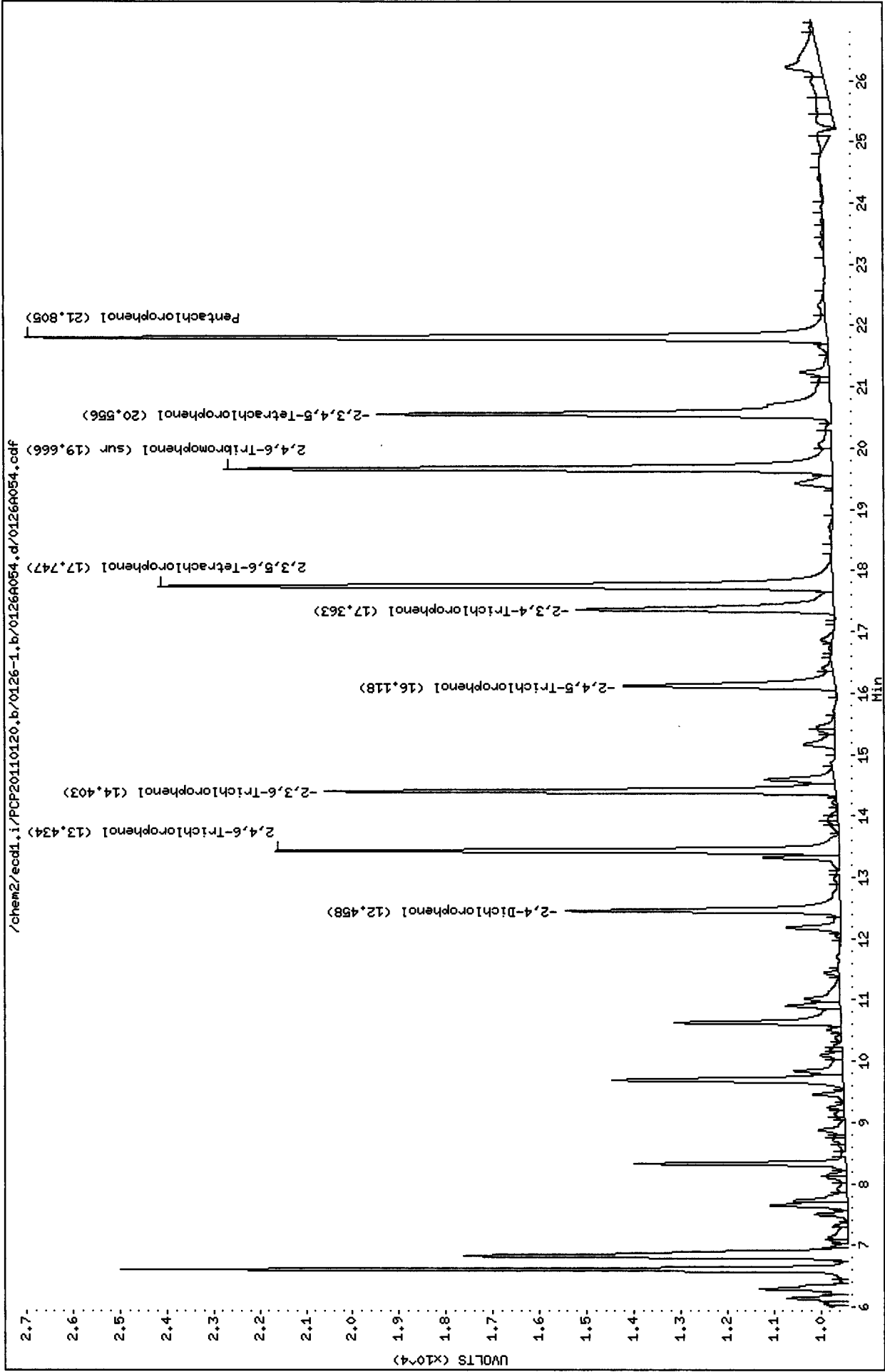
Instrument: ecdl.i

Operator: ar

Column diameter: 0.53



Data File: /chem2/ecdl.i/PCP20110120.b/0126-1.b/0126A054.d
Date : 27-JAN-2011 15:09
Client ID:
Instrument: ecdl.i
Sample Info: PCP COAL
Operator: ar
Purge Volume: 2.0
Column diameter: 0.53
Column phase: ZB5



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

ARI Job ID: SF26, SF50, SF76



Preparation Test **TPHD/HCID** # 1

ARI Job No(s) SF26, SF5φ, SF76

In-House (0.25-0.50ppm)

Batch set up by: JH

Bottle #	Extraction Requirements	Verify Client ID	Volume Extracted	DryVap Or KD	Turbo Vap (2)3	Acid/Silica Clean (1:1) (Y) N	Final Effective Volume	Volume to Lab	Comments
	SF26 MBW	Date 1-24-11	500mL	↓	↑	1mL	1mL	1mL	
	↓ SBW	↓	↓	↓	↑	↓	↓	↓	
	SBW Dup.								
	SF26 QLS	1-24-11	↓	↓	↑	↓	↓	↓	
11	↓ A	verified	500mL	↓	↑	↓	↓	↓	
11	↓ B		↓	↓	↑	↓	↓	↓	
13	↓ C		↓	↓	↑	↓	↓	↓	
23	↓ D		↓	↓	↑	↓	↓	↓	
12,13,14	SF5φ A		↓	↓	↑	↓	↓	↓	
	↓ Ams		↓	↓	↑	↓	↓	↓	
	↓ Amsd		↓	↓	↑	↓	↓	↓	
8	↓ B		↓	↓	↑	↓	↓	↓	
6	↓ C		↓	↓	↑	↓	↓	↓	
5	↓ D		↓	↓	↑	↓	↓	↓	
5	↓ E		↓	↓	↑	↓	↓	↓	
7	↓ F		↓	↓	↑	↓	↓	↓	
13	SF76 A		↓	↓	↑	↓	↓	↓	
12	↓ B		↓	↓	↑	↓	↓	↓	
11	↓ C		↓	↓	↑	↓	↓	↓	
1φ	↓ D		↓	↓	↑	↓	↓	↓	
9	↓ E		↓	↓	↑	↓	↓	↓	
9	↓ F		↓	↓	↑	↓	↓	↓	
9	↓ G		↓	↓	↑	↓	↓	↓	
9	↓ H		↓	↓	↑	↓	↓	↓	
Analyst/Date: AC 1-24-11				1/24/11	3/25/11	01/25/11	01/25/11	01/25/11	

Standard	Standard ID	Volume	Expiration Date	Analyst	Witness
Surrogate	04	100μL	8/φ5/11	AC	SP
Spike	11	100μL	11/φ1/11	AC	SP
QLS Spike	18B	50μL	6/φ2/11	AC	SP

Extraction Time: 1240

SPECIAL INSTRUCTIONS: 1. Add Surr/Spk. 2. Acidify with 1 pipet of 1:1 Sulfuric Acid. 3. Check pH.

4. Extract 2X with 30mL DCM. 5. DryVap or **KD** at 80°. 6. TurboVap if KD. 7. **Acid/Silica Clean-ups?** **(Y) N**.

8. Vial in DCM.
3014F

A. Archive **(Y) N**



ARI Job No.: SF26/SF50/SF76

Client ID: Floyd-Snyder

Parameter: TPHD w/ACSI

Client Project: Lora Lake Apts RI

Note problems, concerns, corrective actions	Analyst/Date
Screens: Soil/Sediment/Solid/Other:	
<input type="checkbox"/> No Anomalies (standard soil/sediment)	
<input type="checkbox"/> Wet sediment/sludge=	
<input type="checkbox"/> Standing Water Decanted=	
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay (Difficult to homogenize/Mixed with Kitchen Aid)=	
<input type="checkbox"/> Rocks/Organics=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input type="checkbox"/> No Anomalies	
<input checked="" type="checkbox"/> Turbid/Color= ^{SF50:} B,E SF76: A,C,F,g,h are light-yellow	AC 1-24-11
<input type="checkbox"/> Particulates=	
<input type="checkbox"/> Emulsions=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Other Notes/Comments=	

**TPHD Raw Data
Initial Calibration**

ARI Job ID: SF26, SF50, SF76

GC Analyst Notes / Corrective Action Log

ARI Project ID: Diesel CURVE Client ID: ART

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 #2, AK 102, o-Taphenyl

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: 1/20/11 Analysis Start: 1/20/11

Endrin/DDT Breakdown <15%?	YES / NO / <u>NA</u>	Method Blank In Control?	YES / NO <u>N/A</u>
ICal Meets RF & %RSD Criteria?	<u>YES</u> / NO	LCS/LCSD Recovery In Control?	YES / NO
CCal Meets RF & %RSD Criteria?	YES / 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):

Additional Details on Reverse: Yes / No

Analyst: mo Date: 1/31/11

Reviewer: WJ Date: 2-1-11

Analytical Resources Inc.: Organics Instrument Log

FID-9 Agilent 6850 - Serial No.: US10404004

Date: 1/20/11 Analysis: NWTPHD Analyst: ms
 GC Program: TPH Column No: 977444 Column Type: Vtx-1
 Instrument Tune (.U or .CT.): _____ EM Voltage: 1/20/11
 Calibration File: _____ Curve Date: 1/20/11

IS/SS	Ical/Ccal	LCS/ICV
/	1786-1 AT-2 1777-3 AT-2	/

Inject	Date/Time	Filename	DF	LabID
1	20-JAN-2011 12:42	0120A001.D	1	RINSE
2	20-JAN-2011 13:03	0120A002.D	1	RINSE
3	20-JAN-2011 13:24	0120A003.D	1	RINSE
4	20-JAN-2011 15:09	0120A004.D	1	RINSE
5	20-JAN-2011 15:30	0120A005.D	1	RT
6	20-JAN-2011 15:52	0120A006.D	1	IB
7	20-JAN-2011 16:13	0120A007.D	1	DIESEL 50
8	20-JAN-2011 16:34	0120A008.D	1	DIESEL 100
9	20-JAN-2011 16:56	0120A009.D	1	DIESEL 250
10	20-JAN-2011 17:17	0120A010.D	1	DIESEL 500
11	20-JAN-2011 17:39	0120A011.D	1	DIESEL 1000
12	20-JAN-2011 18:00	0120A012.D	1	Blank
13	20-JAN-2011 18:22	0120A013.D	1	DIESEL ICV
14	20-JAN-2011 18:43	0120A014.D	1	DIESEL 2500
15	20-JAN-2011 19:04	0120A015.D	1	MOIL 100
16	20-JAN-2011 19:26	0120A016.D	1	MOIL 250
17	20-JAN-2011 19:47	0120A017.D	1	MOIL 500
18	20-JAN-2011 20:08	0120A018.D	1	MOIL 1000
19	20-JAN-2011 20:30	0120A019.D	1	MOIL 2500
20	20-JAN-2011 20:51	0120A020.D	1	MOIL 5000
21	20-JAN-2011 21:12	0120A021.D	1	MOIL ICV
22	20-JAN-2011 21:34	0120A022.D	1	DIESEL#1
23	20-JAN-2011 21:55	0120A023.D	1	MOIL#1
24	20-JAN-2011 22:16	0120A024.D	1	SE57MBW1
25	20-JAN-2011 22:38	0120A025.D	1	SE57LCSW1
26	20-JAN-2011 22:59	0120A026.D	1	SE57LCSW1
27	20-JAN-2011 23:21	0120A027.D	1	SE57QLS
28	20-JAN-2011 23:42	0120A028.D	1	SE57A
29	21-JAN-2011 00:03	0120A029.D	1	SF16MBS1
30	21-JAN-2011 00:25	0120A030.D	1	SF16LCS1
31	21-JAN-2011 00:46	0120A031.D	1	SF16LCS1
32	21-JAN-2011 01:08	0120A032.D	1	SF16QLS
33	21-JAN-2011 01:29	0120A033.D	10	SF16A
34	21-JAN-2011 01:50	0120A034.D	5	SF16B
35	21-JAN-2011 02:12	0120A035.D	1	DIESEL#2
36	21-JAN-2011 02:33	0120A036.D	1	MOIL#2

[Large handwritten scribble]

ms

ms 1/24/11

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 - /chem2/fid9.i/20110120.b

ARI Job No.: DIES Method: ftphfid9a.m Instrument: fid9.i Date: 20-JAN-2011

Time Filename LabID ClientId DF Manually Integrated Compounds

1613 0120A007.D DIESEL 50 DIESEL 50 1 o-terph,

1634 0120A008.D DIESEL 100 DIESEL 100 1 o-terph,

1656 0120A009.D DIESEL 250 DIESEL 250 1 o-terph,

1717 0120A010.D DIESEL 500 DIESEL 500 1 o-terph,

1739 0120A011.D DIESEL 1000 DIESEL 100 1 o-terph,

1800 0120A012.D Blank 1 NO MANUAL INTEGRATION

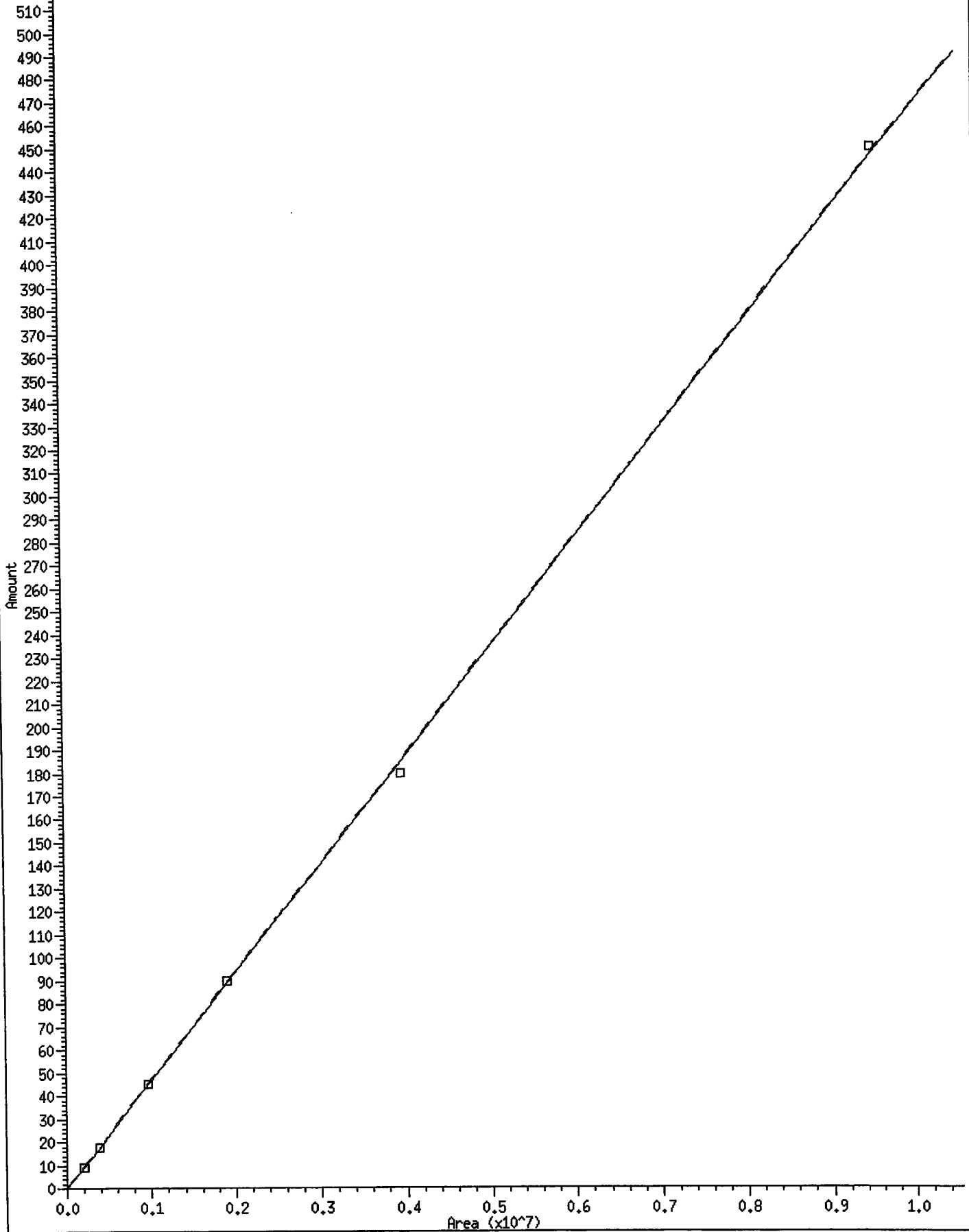
1822 0120A013.D DIESEL ICV 1 o-terph,

1843 0120A014.D DIESEL 2500 DIESEL 250 1 o-terph,

t 107
1/20/11

* 8 o-terph

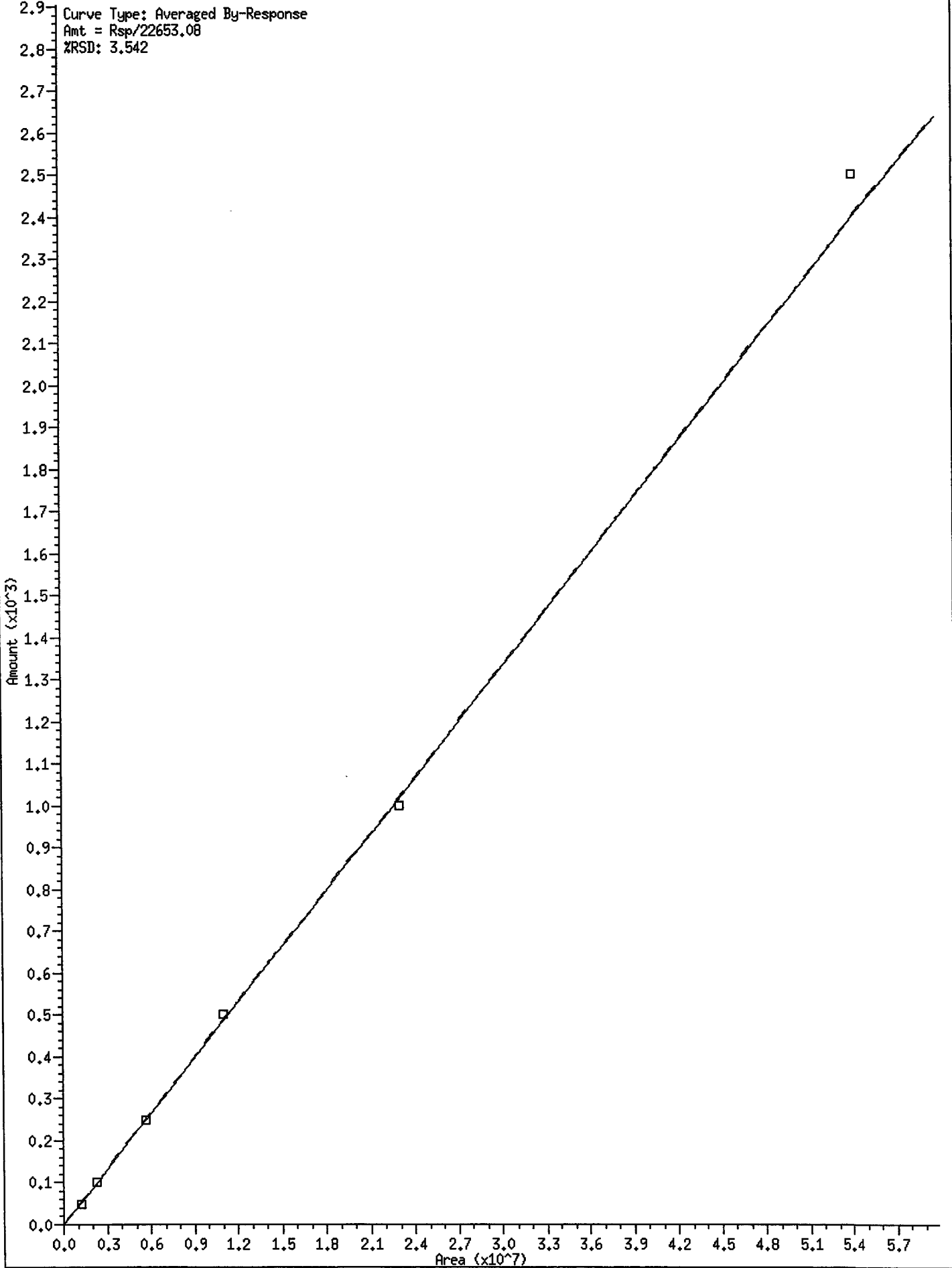
540 Curve Type: Averaged By-Response
530 Amt = Rsp/21417.12
520 %RSD: 1.990
510
500
490
480
470
460
450
440
430
420
410
400
390
380
370
360
350
340
330
320
310
300
290
280
270
260
250
240
230
220
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170
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0



SF26 : 01136

FID 9
1/20/11

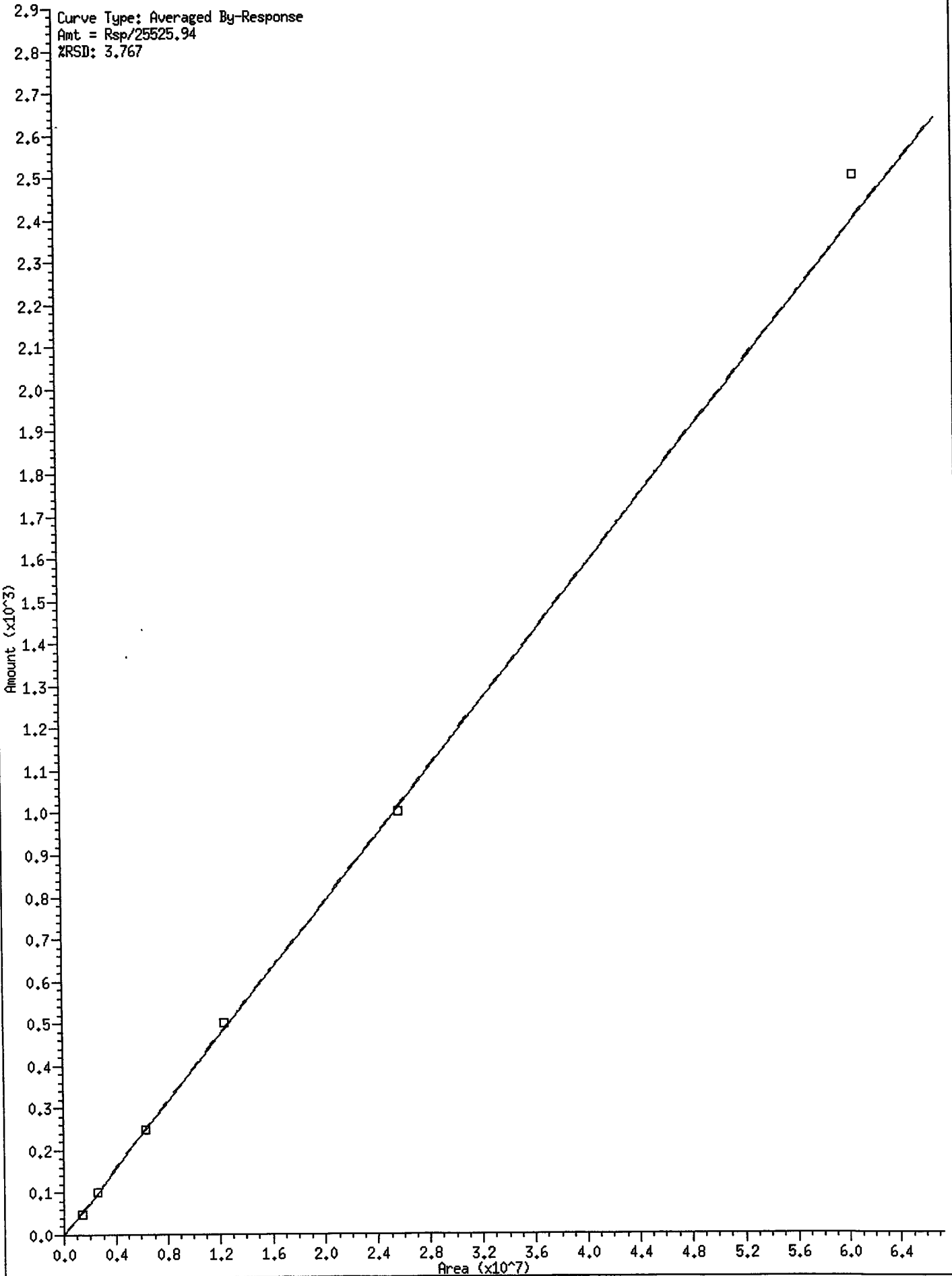
31 NW Diesel



SF26: 01137

T 10-7
1/20/11

33 AK Dies 102



SF26: 01138

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/fid9.i/20110120.b/ftphfid9a.m
Batch File: /chem2/fid9.i/20110120.b
Inst ID: fid9.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Toluene	1.389	1.321	1.323	1.320	1.322	1.324	1.303	1.203-1.403	1.333	0.028
37 JET-A	1.376	1.370	1.368	1.371	1.378	1.370	1.370	1.320-1.420	1.372	0.004
2 C8	1.520	1.516	1.529	1.512	1.515	1.529	1.519	1.419-1.619	1.520	0.007
3 C10	1.989	1.987	1.986	1.988	1.988	1.985	1.988	1.938-2.038	1.987	0.001
4 C12	2.634	2.624	2.617	2.631	2.626	2.625	2.623	2.573-2.673	2.626	0.006
5 C14	3.146	3.163	3.148	3.147	3.165	3.162	3.156	3.106-3.206	3.155	0.009
6 C16	3.622	3.617	3.626	3.633	3.631	3.629	3.627	3.577-3.677	3.626	0.006
7 C18	4.057	4.054	4.052	4.052	4.051	4.051	4.049	3.999-4.099	4.053	0.002
8 o-terph	4.171	4.170	4.168	4.169	4.167	4.166	4.168	4.118-4.218	4.169	0.002
9 C20	4.438	4.435	4.431	4.436	4.436	4.438	4.435	4.385-4.485	4.436	0.003
10 C22	4.821	4.825	4.823	4.828	4.828	4.831	4.827	4.777-4.877	4.826	0.004
11 C24	5.322	5.324	5.320	5.329	5.327	5.322	5.324	5.274-5.374	5.324	0.003
12 C25	5.544	5.549	5.545	5.550	5.549	5.550	5.548	5.498-5.598	5.548	0.003
13 C26	5.750	5.752	5.746	5.746	5.747	5.743	5.749	5.699-5.799	5.748	0.003
14 C28	6.101	6.104	6.106	6.104	6.101	6.106	6.104	6.054-6.154	6.104	0.002
15 Triacon Surr	6.413	6.419	6.424	6.435	6.459	6.496	6.422	6.372-6.472	6.441	0.032
16 C32	6.693	6.694	6.694	6.696	6.693	6.698	6.696	6.646-6.746	6.695	0.002

Reviewer 1 _____ Date: 1/31/11
 Reviewer 2 _____ Date: 2-1-11

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/fid9.i/20110120.b/ftphfid9a.m
Batch File: /chem2/fid9.i/20110120.b
Inst ID: fid9.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
17 C34	6.953	6.958	6.964	6.965	6.956	6.958	6.959	6.909-7.009	6.959	0.005
18 Filter Peak	+++++	+++++	+++++	+++++	+++++	+++++	12.769	12.669-12.869	+++++	+++++
19 C36	7.214	7.203	7.205	7.209	7.215	7.214	7.209	7.159-7.259	7.210	0.005
20 C38	7.451	7.447	7.447	7.456	7.446	7.452	7.448	7.398-7.498	7.450	0.004
21 C40	7.731	7.722	7.725	7.719	7.723	7.722	7.723	7.673-7.773	7.724	0.004
31 NW Diesel	+++++	+++++	+++++	+++++	+++++	+++++	0.513	0.463-0.563	+++++	+++++
32 OR Diesel	+++++	+++++	+++++	+++++	+++++	+++++	0.690	0.640-0.740	+++++	+++++
33 AK Dies 102	+++++	+++++	+++++	+++++	+++++	+++++	0.660	0.610-0.710	+++++	+++++
30 NW MOil	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
34 OR MOil	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
35 AK MOil 103	+++++	+++++	+++++	+++++	+++++	+++++	0.658	0.608-0.708	+++++	+++++
38 Bunker C	+++++	+++++	+++++	+++++	+++++	+++++	0.705	0.655-0.755	+++++	+++++
39 Creosote	+++++	+++++	+++++	+++++	+++++	+++++	0.550	0.500-0.600	+++++	+++++

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A005.D
 Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: JR
 Report Date: 01/31/2011

ARI ID: RT
 Client ID: RT
 Injection: 20-JAN-2011 15:30
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.303	0.000	383937	277413	GAS (Tol-C12)	998508	48 M
C8	1.519	0.000	53885	28465	DIESEL (C12-C24)	1655661	73
C10	1.988	0.000	657169	294726	M.OIL (C24-C38)	1825693	138
C12	2.623	0.000	676220	289238	AK-102 (C10-C25)	2271772	89
C14	3.156	0.000	587065	285605	AK-103 (C25-C36)	1573197	185
C16	3.627	0.000	678327	282100			
C18	4.049	0.000	649103	277428			
C20	4.435	0.000	617954	270911			
C22	4.827	0.000	422551	260123			
C24	5.324	0.000	385629	251401			
C25	5.548	0.000	508484	337875			
C26	5.749	0.000	386378	243690			
C28	6.104	0.000	394465	236165			
C32	6.696	0.000	375697	230951	JP-4 (Tol-C14)	1294923	79 M
C34	6.959	0.000	351484	236984	BUNKERC (C10-C38)	4092053	484
Filter Peak	----						
C36	7.209	0.000	339607	248990			
C38	7.448	0.000	272516	232146			
C40	7.723	0.000	188027	195470			
o-terph	4.168	0.000	1676827	913732	JET-A (C10-C18)	1475173	107
Triacon Surr	6.422	0.000	1043688	719648	JP8 (Tol-C16)	1582493	90 M

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	913732	42.7	94.8
Triacontane	719648	40.8	90.7

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

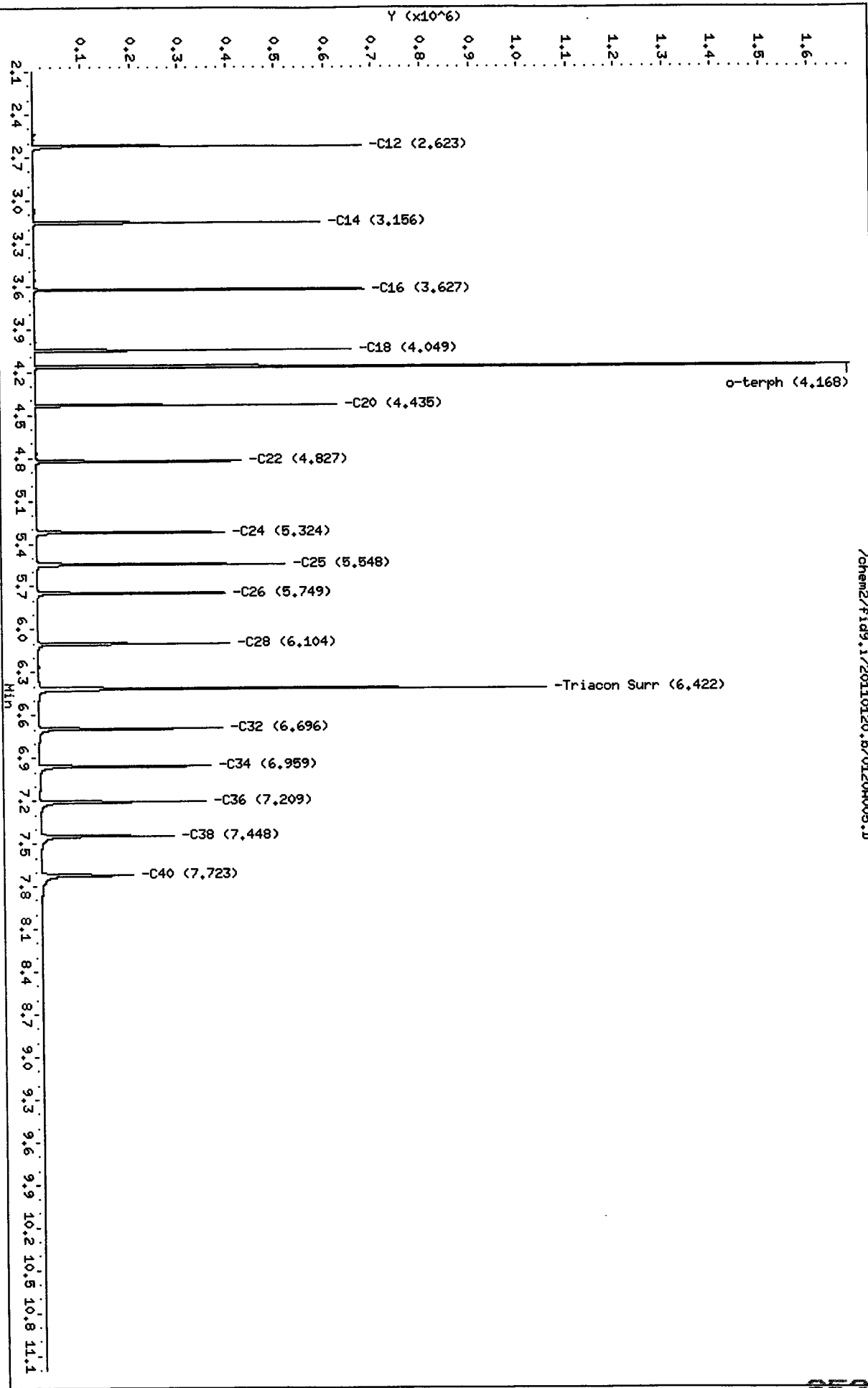
Jan 31/11

Data File: /chem2/fid9.i/20110120.b/01204005.D
Date : 20-JAN-2011 15:30
Client ID: RT
Sample Info: RT

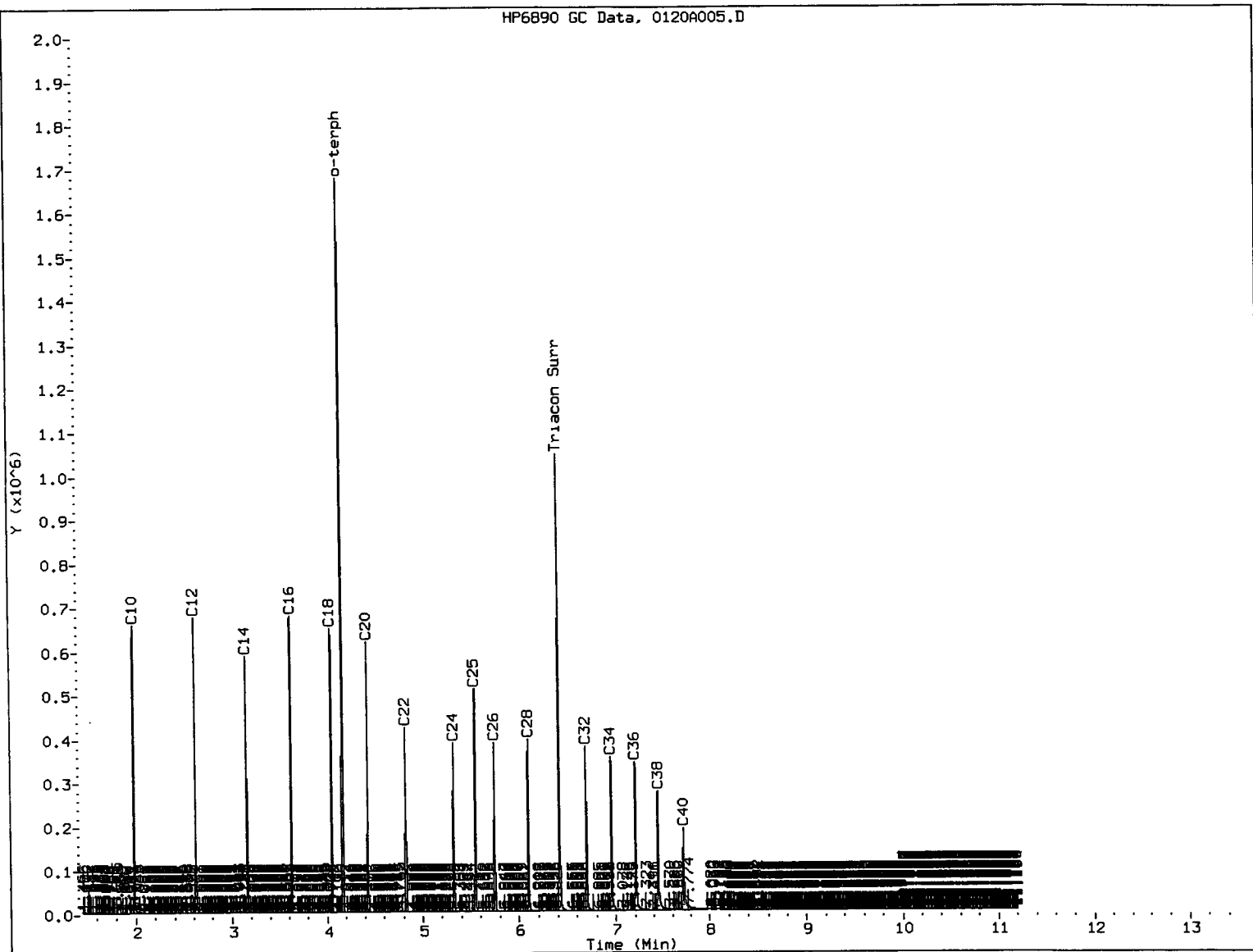
Column phase: RTX-1

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Instrument: fid9.i
Operator: JR
Column diameter: 0.25



3F26 : 0111 (N)



MANUAL INTEGRATION

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

Analyst: *[Signature]*

Date: *4/3/11*

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A006.D
 Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: JR
 Report Date: 01/31/2011

ARI ID: IB
 Client ID:
 Injection: 20-JAN-2011 15:52
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.322	0.019	63463	64572	GAS (Tol-C12)	139212	7
C8	1.519	0.000	7460	7425	DIESEL (C12-C24)	22665	1
C10	1.987	-0.001	1338	1740	M.OIL (C24-C38)	44620	3
C12	2.612	-0.011	706	1274	AK-102 (C10-C25)	44595	2
C14	3.152	-0.005	306	190	AK-103 (C25-C36)	32471	4
C16	3.625	-0.002	165	22			
C18	4.049	0.000	184	200			
C20	4.437	0.002	136	115			
C22	4.830	0.003	67	18			
C24	5.318	-0.006	33	22			
C25	5.546	-0.002	53	25			
C26	5.745	-0.004	45	34			
C28	6.099	-0.005	256	173			
C32	6.695	-0.001	1292	2211	JP-4 (Tol-C14)	148417	9
C34	6.957	-0.002	875	1419	BUNKERC (C10-C38)	89113	11
Filter Peak	----						
C36	7.209	0.000	656	194			
C38	7.447	-0.001	938	390			
C40	7.718	-0.005	1264	377			
o-terph	4.171	0.003	1830174	1085386	JET-A (C10-C18)	40391	3
Triacon Surr	6.421	-0.001	1029861	732679	JP8 (Tol-C16)	154222	9

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1085386	50.7	112.6
Triacontane	732679	41.6	92.4

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110120.b/01200006.D

Date: 20-JAN-2011 15:52

Client ID:

Sample Info: IB

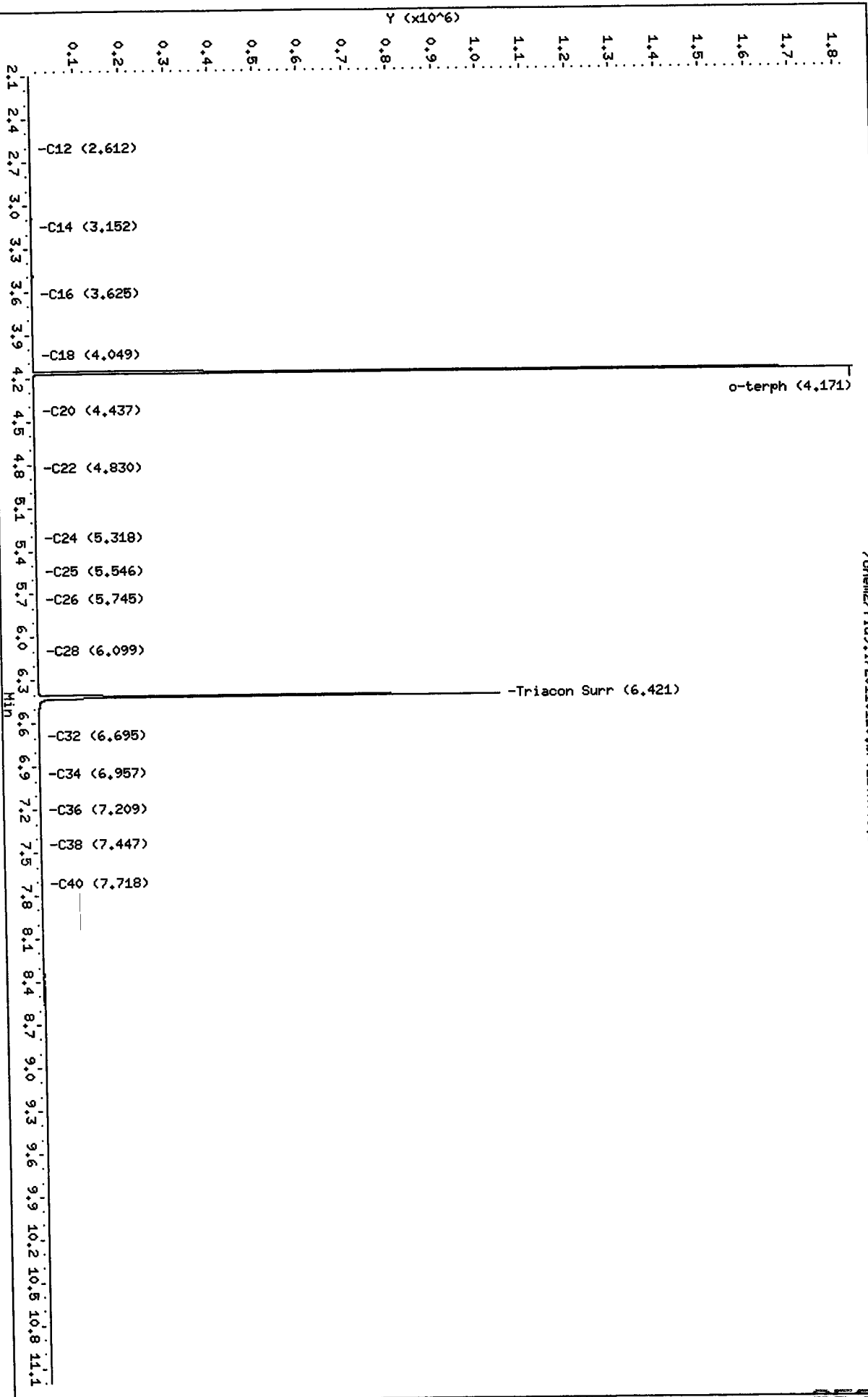
Column phase: RTX-1

Instrument: fid9.i

Operator: JR

Column diameter: 0.25

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12
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Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A007.D
Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
Instrument: fid9.i
Operator: JR
Report Date: 01/31/2011

ARI ID: DIESEL 50
Client ID: DIESEL 50
Injection: 20-JAN-2011 16:13
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.325	0.022	4316	9749	GAS (Tol-C12)	260141	12
C8	1.518	-0.001	4723	3015	DIESEL (C12-C24)	1201950	53 ✓
C10	1.986	-0.002	9019	7034	M.OIL (C24-C38)	29106	2
C12	2.624	0.002	19691	12552	AK-102 (C10-C25)	1361439	53 M
C14	3.160	0.003	35985	22344	AK-103 (C25-C36)	17309	2
C16	3.627	0.000	64307	36363			
C18	4.048	-0.001	56312	40699			
C20	4.434	-0.001	30544	20004			
C22	4.826	-0.001	9899	9065			
C24	5.323	-0.001	2311	2776			
C25	5.548	0.000	882	943			
C26	5.749	0.000	291	394			
C28	6.100	-0.003	38	22			
C32	6.691	-0.005	160	58	JP-4 (Tol-C14)	484680	30
C34	6.953	-0.006	440	580	BUNKERC (C10-C38)	1387701	164 M
Filter Peak	----						
C36	7.210	0.001	507	457			
C38	7.447	-0.001	794	282			
C40	7.725	0.003	1071	320			
o-terph	4.162	-0.006	439550	196937	JET-A (C10-C18)	1030119	75
Triacon Surr	6.413	-0.008	226	272	JP8 (Tol-C16)	799073	45

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	196937	9.2	20.4
Triacontane	272	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110120.b/01200007.D

Date: 20-JAN-2011 16:13

Client ID: DIESEL 50

Sample Info: DIESEL 50

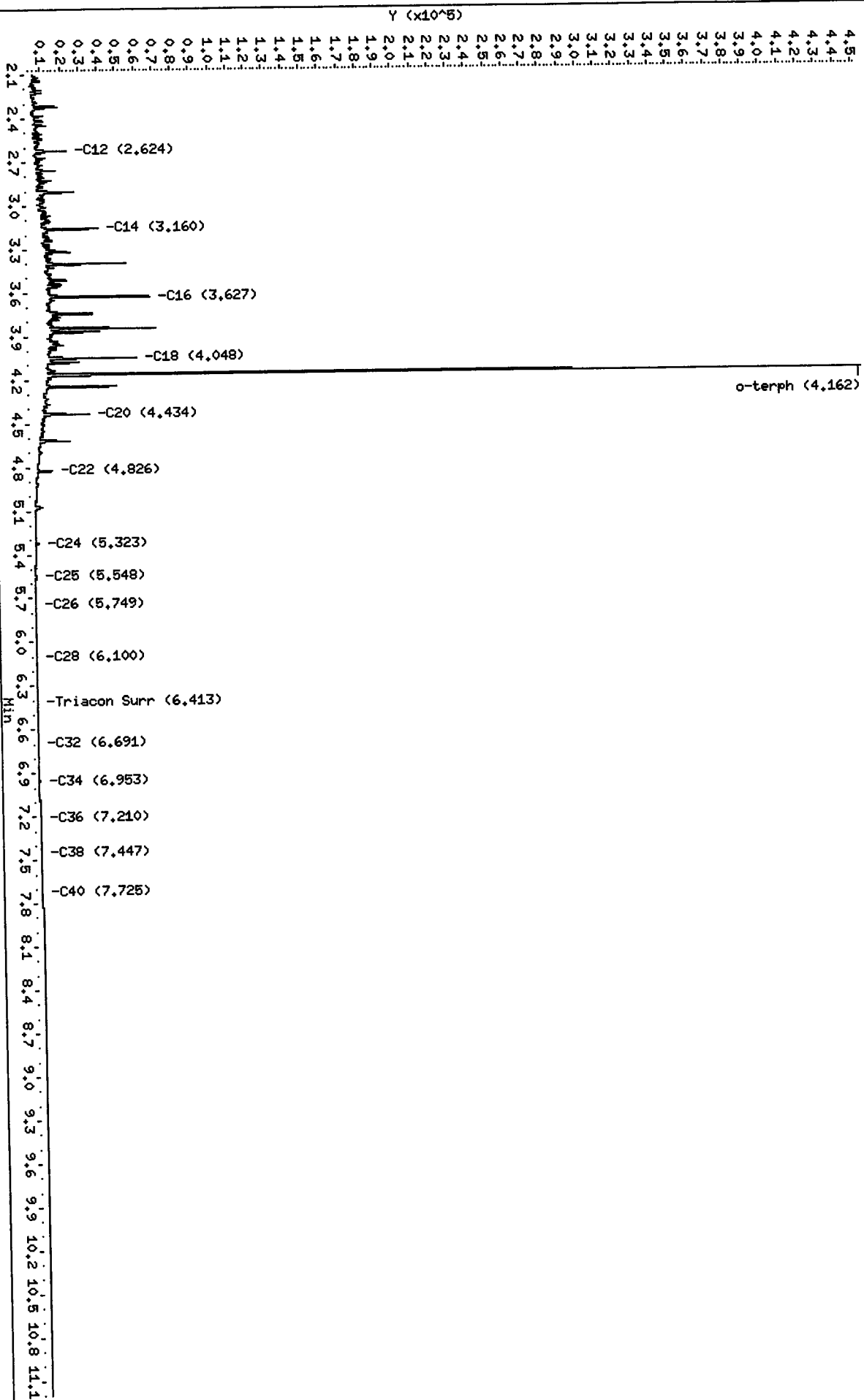
Column phase: RTX-1

Instrument: fid9.i

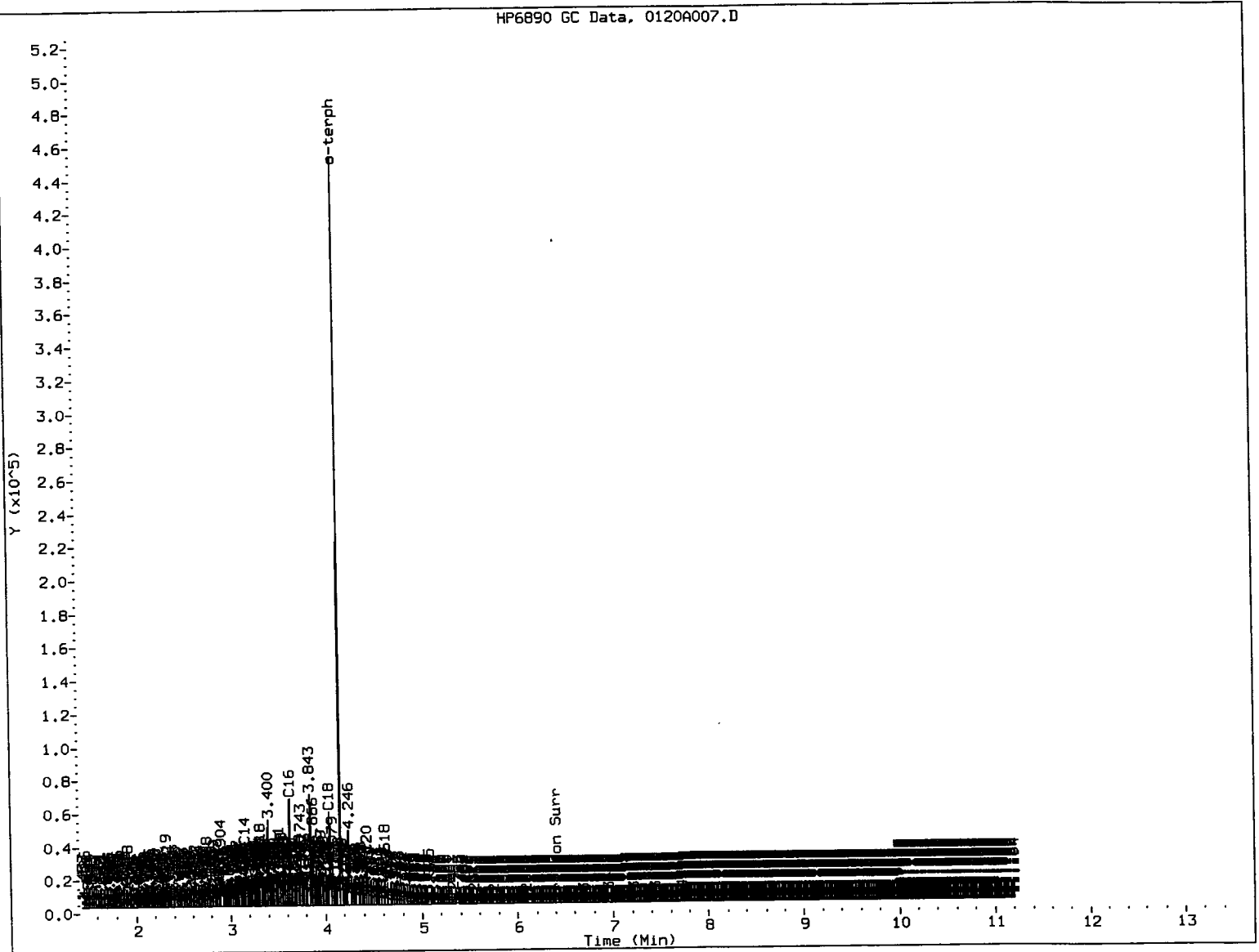
Operator: JR

Column diameter: 0.25

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MANUAL INTEGRATION

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

Analyst:

Date:

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A008.D
Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
Instrument: fid9.i
Operator: JR
Report Date: 01/31/2011

ARI ID: DIESEL 100
Client ID: DIESEL 100
Injection: 20-JAN-2011 16:34
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.323	0.020	4200	1169	GAS (Tol-C12)	431533	21
C8	1.519	0.000	3135	1746	DIESEL (C12-C24)	2250682	99
C10	1.986	-0.002	16882	11699	M.OIL (C24-C38)	37206	3
C12	2.624	0.001	37179	23233	AK-102 (C10-C25)	2548528	100 M
C14	3.158	0.002	67785	42725	AK-103 (C25-C36)	22817	3
C16	3.626	-0.001	123251	70743			
C18	4.047	-0.003	108435	68087			
C20	4.434	-0.002	59788	39985			
C22	4.825	-0.003	20235	17023			
C24	5.322	-0.002	4892	5420			
C25	5.546	-0.002	1976	2143			
C26	5.749	0.000	641	866			
C28	6.101	-0.003	63	36			
C32	6.697	0.001	141	107	JP-4 (Tol-C14)	830791	51
C34	6.959	0.000	643	897	BUNKERC (C10-C38)	2580649	305 M
Filter Peak	----						
C36	7.206	-0.003	455	223			
C38	7.448	-0.001	744	288			
C40	7.725	0.003	995	554			
o-terph	4.163	-0.005	800604	375926	JET-A (C10-C18)	1919949	139
Triacon Surr	6.413	-0.009	215	233	JP8 (Tol-C16)	1419731	81

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	375926	17.6	39.0
Triacontane	233	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110120.b/01200008.D

Date: 20-JAN-2011 16:34

Client ID: DIESEL 100

Sample Info: DIESEL 100

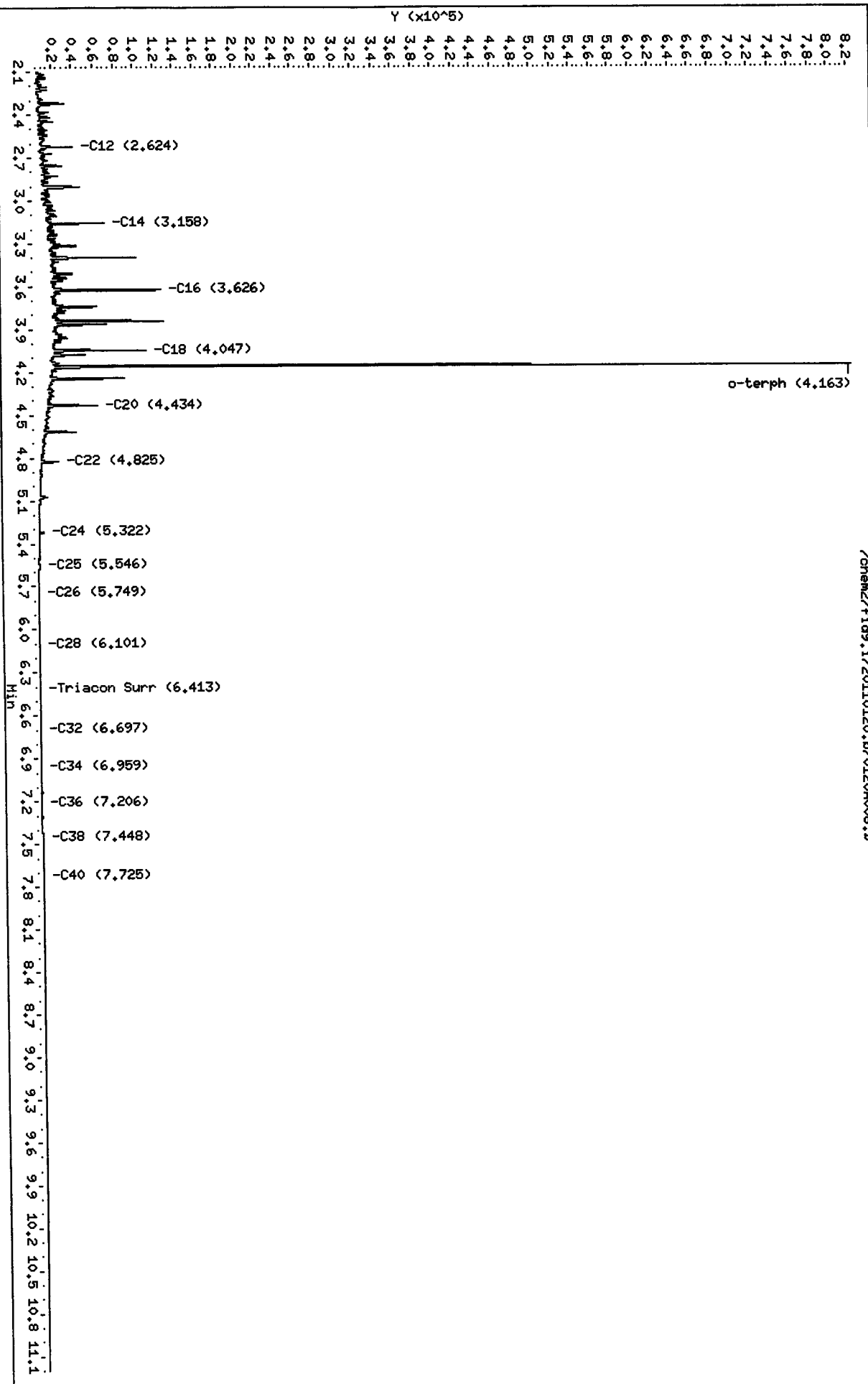
Column phase: RTX-1

Instrument: fid9.i

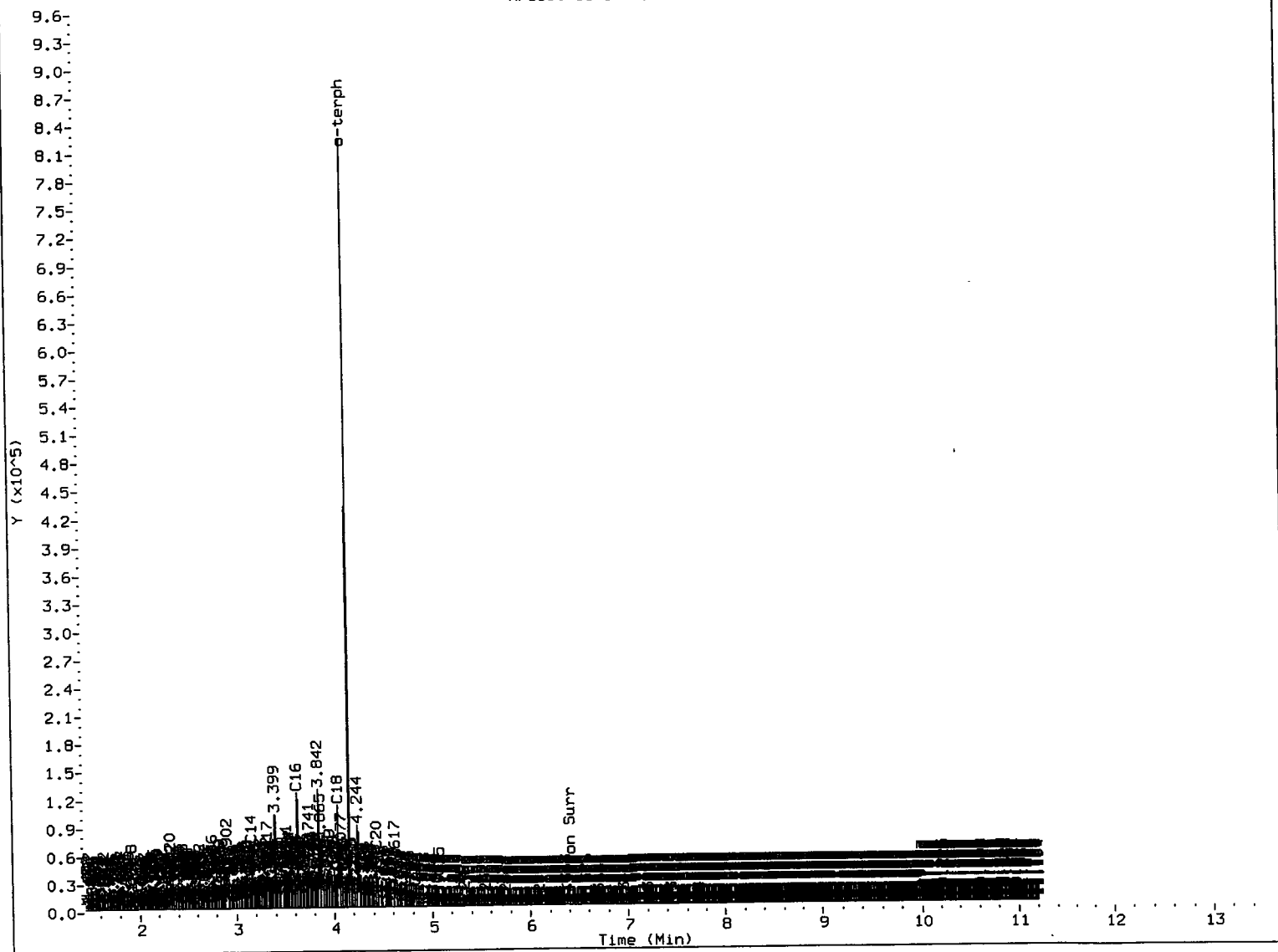
Operator: JR

Column diameter: 0.25

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HP6890 GC Data, 0120A008.D



MANUAL INTEGRATION

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

Analyst: Me

Date: 1/31/16

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A009.D
 Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: JR
 Report Date: 01/31/2011

ARI ID: DIESEL 250
 Client ID: DIESEL 250
 Injection: 20-JAN-2011 16:56
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.324	0.021	6031	7453	GAS (Tol-C12)	963284	46
C8	1.507	-0.012	7475	8561	DIESEL (C12-C24)	5612665	248
C10	1.986	-0.002	38817	27322	M.OIL (C24-C38)	62594	5
C12	2.624	0.001	90323	57014	AK-102 (C10-C25)	6319024	248 M
C14	3.158	0.001	171050	104020	AK-103 (C25-C36)	36765	4
C16	3.628	0.001	304099	171492			
C18	4.050	0.001	266328	193663			
C20	4.436	0.000	157838	100369			
C22	4.827	0.000	53206	41402			
C24	5.324	-0.001	13583	13064			
C25	5.547	-0.001	5666	9897			
C26	5.750	0.001	2020	3391			
C28	6.103	-0.001	182	194			
C32	6.699	0.003	100	53	JP-4 (Tol-C14)	1958006	119
C34	6.959	0.000	367	620	BUNKERC (C10-C38)	6363986	752 M
Filter Peak	----						
C36	7.208	0.000	395	317			
C38	7.449	0.000	650	230			
C40	7.722	-0.001	878	488			
o-terph	4.172	0.004	1648781	956101	JET-A (C10-C18)	4720353	342
Triacon Surr	6.414	-0.008	263	238	JP8 (Tol-C16)	3414412	194

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	956101	44.6	99.2
Triacontane	238	0.0	0.0

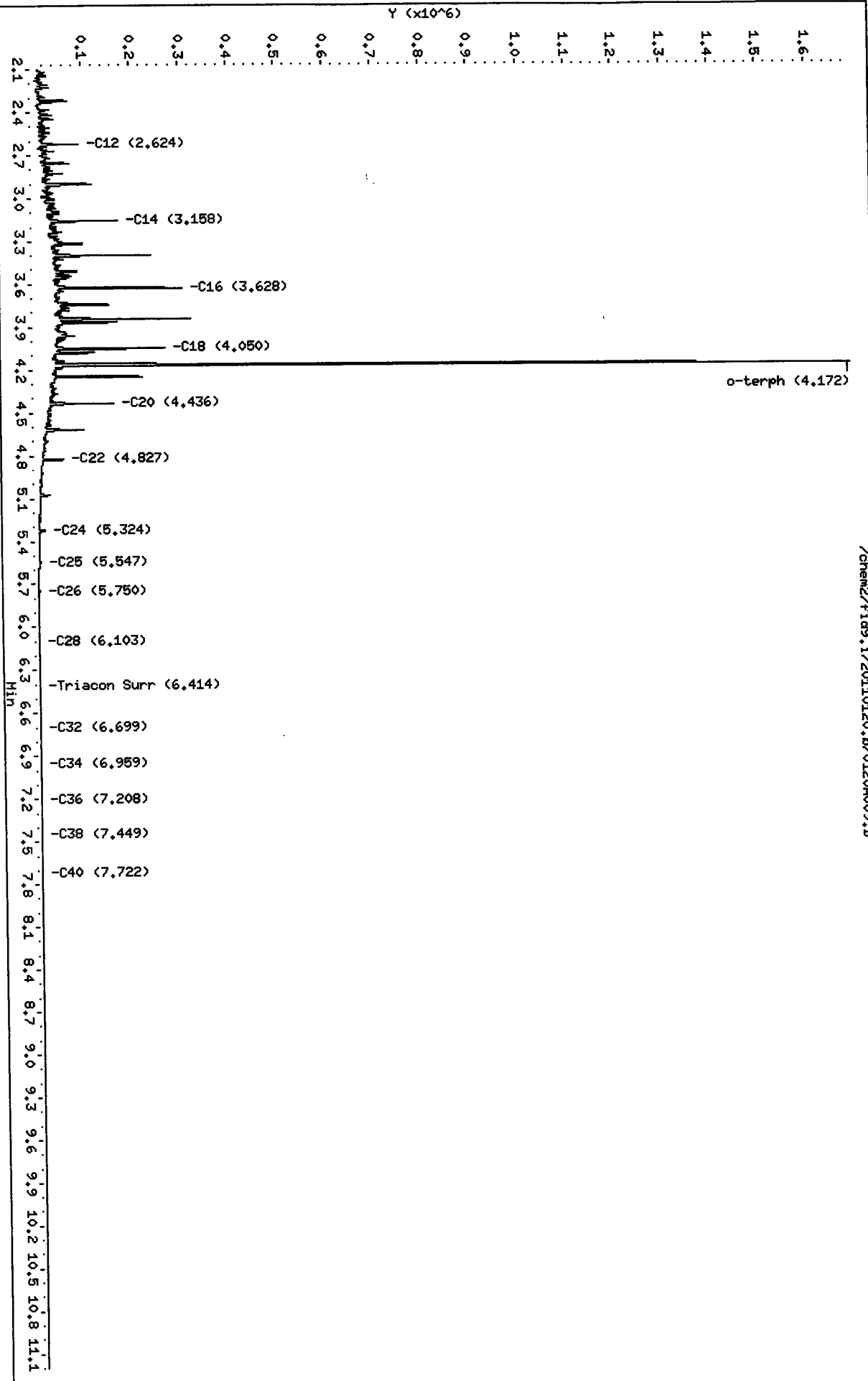
Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110120.b/01200009.D
Date : 20-JAN-2011 16:56
Client ID: DIESEL 250
Sample Info: DIESEL 250

Column phase: RTX-1

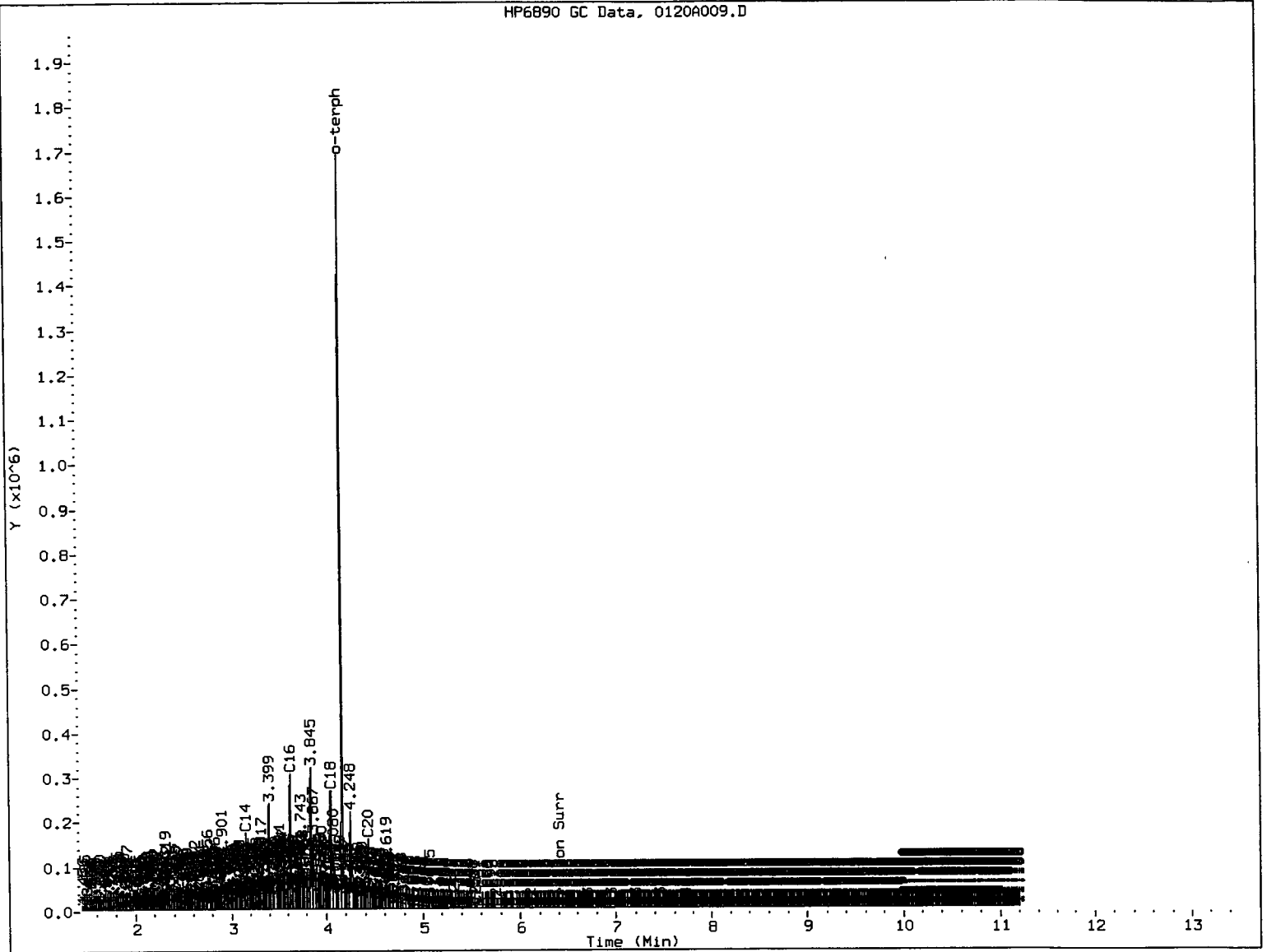
Instrument: fid9.i
Operator: JR
Column diameter: 0.25

/chem2/fid9.i/20110120.b/01200009.D



00 11 29 : 02 20 10

HP6890 GC Data, 0120A009.D



MANUAL INTEGRATION

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

Analyst: *[Signature]*

Date: 4/27/11

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A010.D
 Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: JR
 Report Date: 01/31/2011

ARI ID: DIESEL 500
 Client ID: DIESEL 500
 Injection: 20-JAN-2011 17:17
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.398	0.095	17869	25462	GAS (Tol-C12)	1776175	85
C8	1.514	-0.005	10549	10477	DIESEL (C12-C24)	11068698	489
C10	1.990	0.001	68837	52395	M.OIL (C24-C38)	109996	8
C12	2.625	0.002	174291	112795	AK-102 (C10-C25)	12428725	487 M
C14	3.159	0.003	325720	204440	AK-103 (C25-C36)	67014	8
C16	3.631	0.004	588845	333085			
C18	4.054	0.004	491538	360935			
C20	4.438	0.002	312537	204051			
C22	4.829	0.001	108927	91605			
C24	5.325	0.001	28104	25796			
C25	5.549	0.001	12072	11710			
C26	5.751	0.002	4559	6993			
C28	6.106	0.002	441	521			
C32	6.692	-0.005	44	18	JP-4 (Tol-C14)	3717778	227
C34	6.955	-0.004	136	31	BUNKERC (C10-C38)	12502293	1478 M
Filter Peak	----						
C36	7.213	0.004	308	87			
C38	7.449	0.001	535	104			
C40	7.727	0.004	758	345			
o-terph	4.180	0.011	2578275	1912252	JET-A (C10-C18)	9190576	665
Triacon Surr	6.419	-0.003	302	246	JP8 (Tol-C16)	6564939	373

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1912252	89.3	198.4
Triacotane	246	0.0	0.0

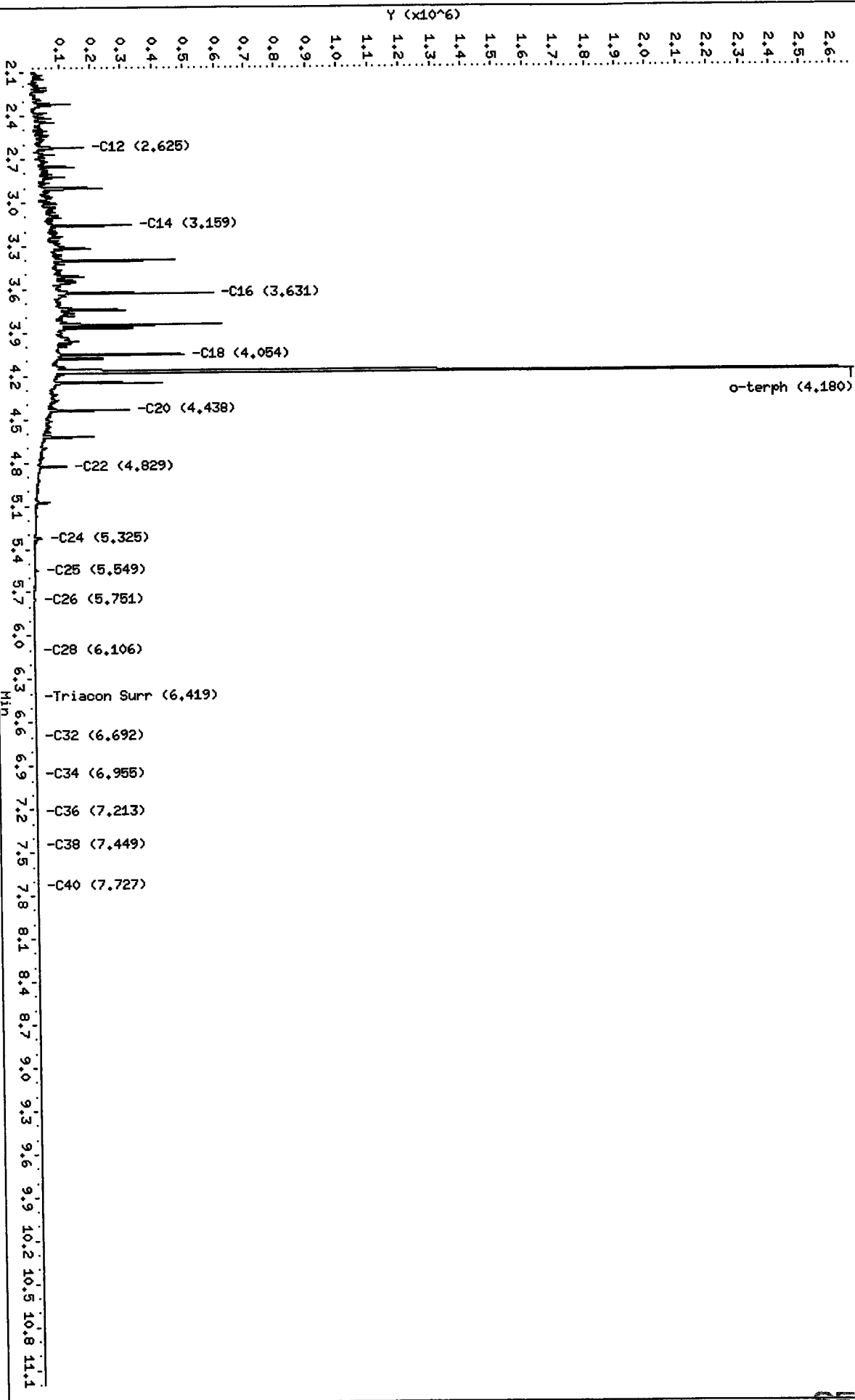
Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110120.b/01200010.D
Date: 20-JAN-2011 17:17
Client ID: DIESEL 500
Sample Info: DIESEL 500

Column phase: RTX-1

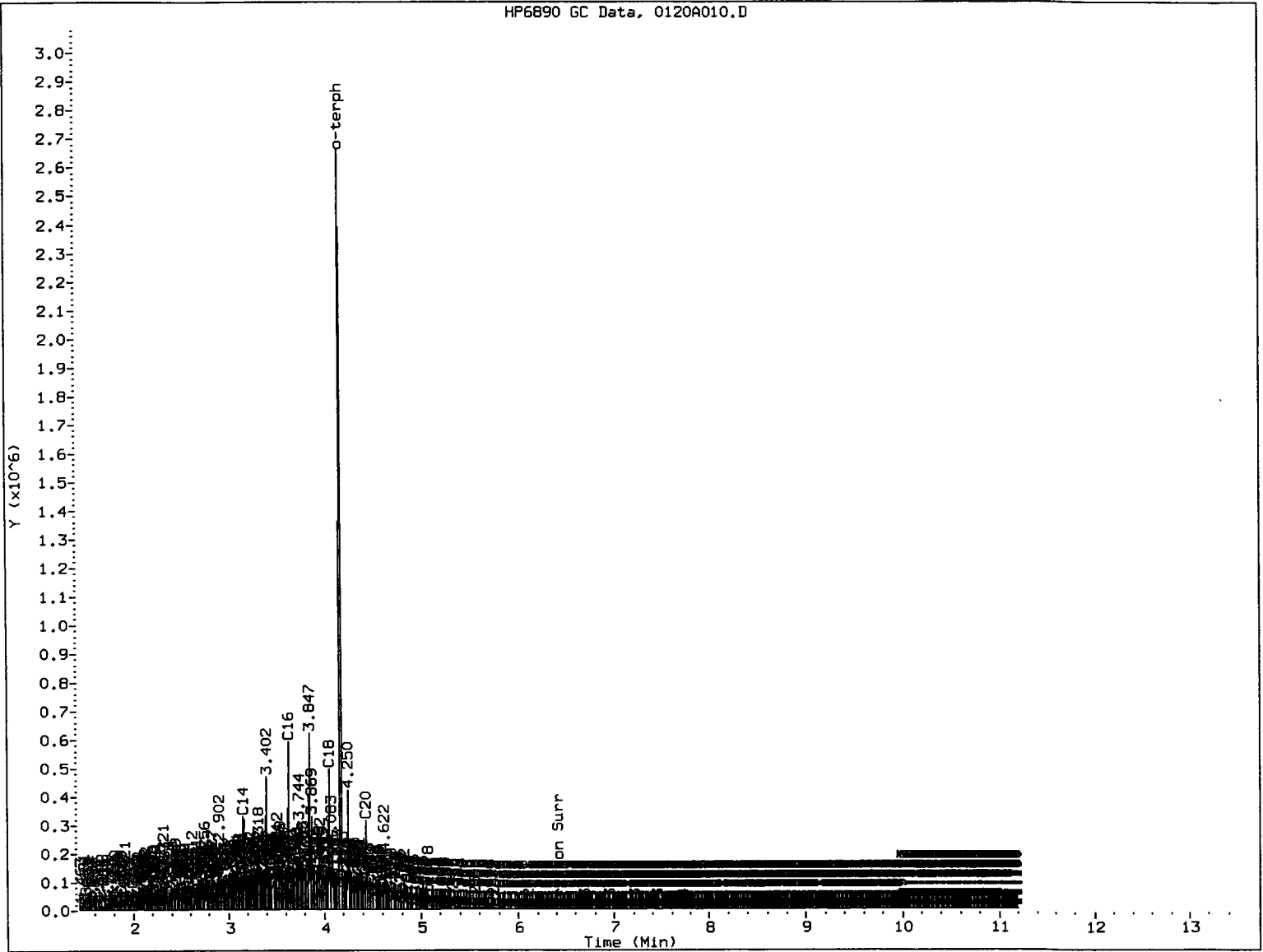
/chem2/fid9.i/20110120.b/01200010.D

Instrument: fid9.i
Operator: JR
Column diameter: 0.25



00 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

HP6890 GC Data, 0120A010.D



MANUAL INTEGRATION

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

Analyst: *[Signature]*

Date: 1/31/11

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A011.D
Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
Instrument: fid9.i
Operator: JR
Report Date: 01/31/2011

ARI ID: DIESEL 1000
Client ID: DIESEL 1000
Injection: 20-JAN-2011 17:39
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.339	0.037	8762	8760	GAS (Tol-C12)	3594386	171
C8	1.518	-0.001	27057	15884	DIESEL (C12-C24)	23038155	1017
C10	1.990	0.002	167929	83497	M.OIL (C24-C38)	219685	17
C12	2.624	0.002	354185	174409	AK-102 (C10-C25)	25837848	1012 M
C14	3.160	0.003	609754	427306	AK-103 (C25-C36)	133603	16
C16	3.633	0.007	1068780	958419			
C18	4.058	0.009	864857	707464			
C20	4.441	0.006	605141	435620			
C22	4.832	0.005	224884	186854			
C24	5.325	0.001	58350	55840			
C25	5.547	0.000	26518	36505			
C26	5.750	0.001	10341	13202			
C28	6.105	0.002	1103	1230			
C32	6.695	-0.002	28	7	JP-4 (Tol-C14)	7593788	463
C34	6.964	0.006	325	397	BUNKERC (C10-C38)	25977309	3070 M
Filter Peak	----						
C36	7.209	0.001	234	71			
C38	7.450	0.001	456	432			
C40	7.723	0.000	644	165			
o-terph	4.189	0.020	3635682	3957673	JET-A (C10-C18)	19204582	1390
Triacon Surr	6.417	-0.005	287	303	JP8 (Tol-C16)	13546339	770

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) | AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	3957673	184.8	410.6
Triacontane	303	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110120.b/01200011.D

Date: 20-JAN-2011 17:39

Client ID: DIESEL 1000

Sample Info: DIESEL 1000

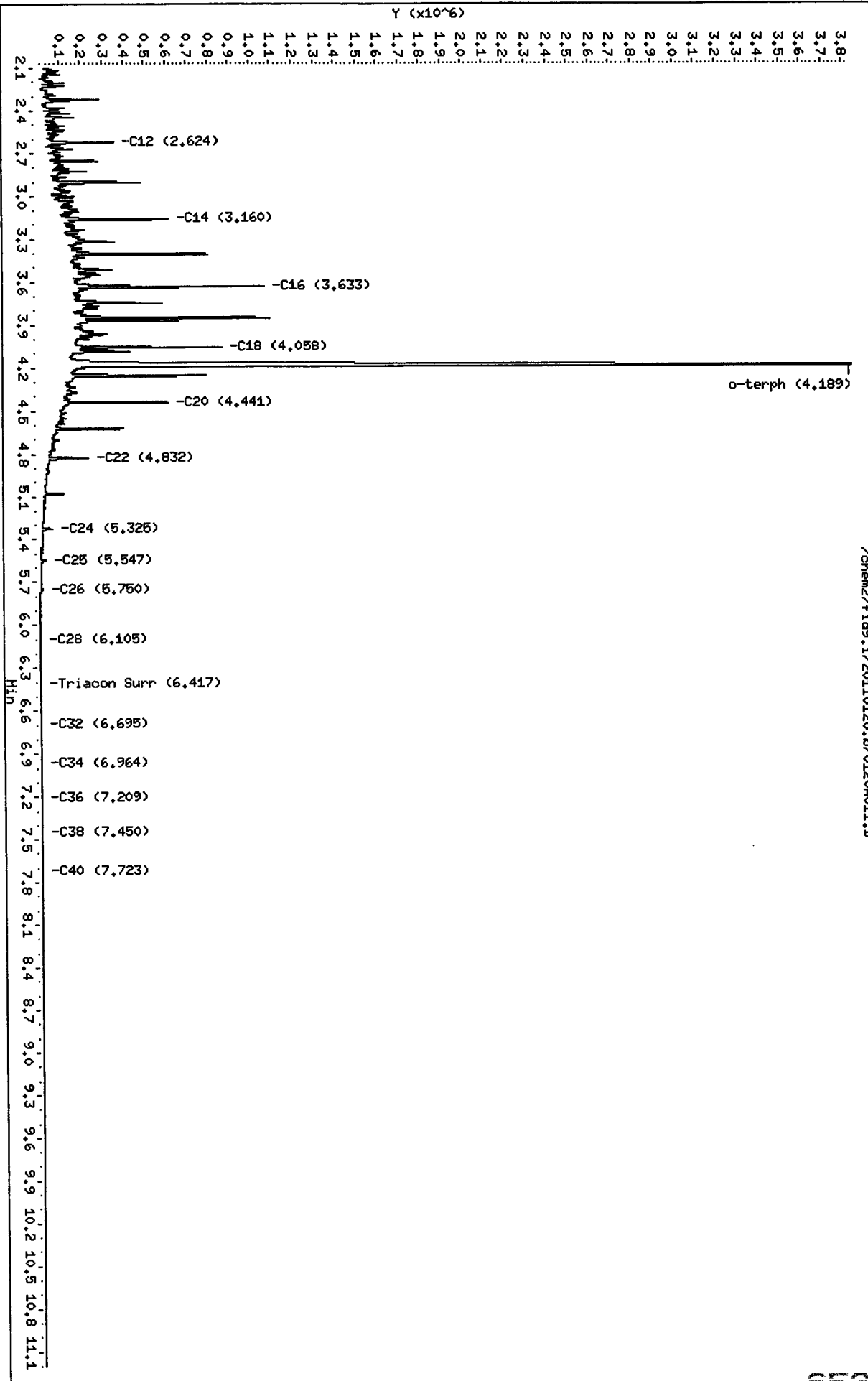
Column phase: RTX-1

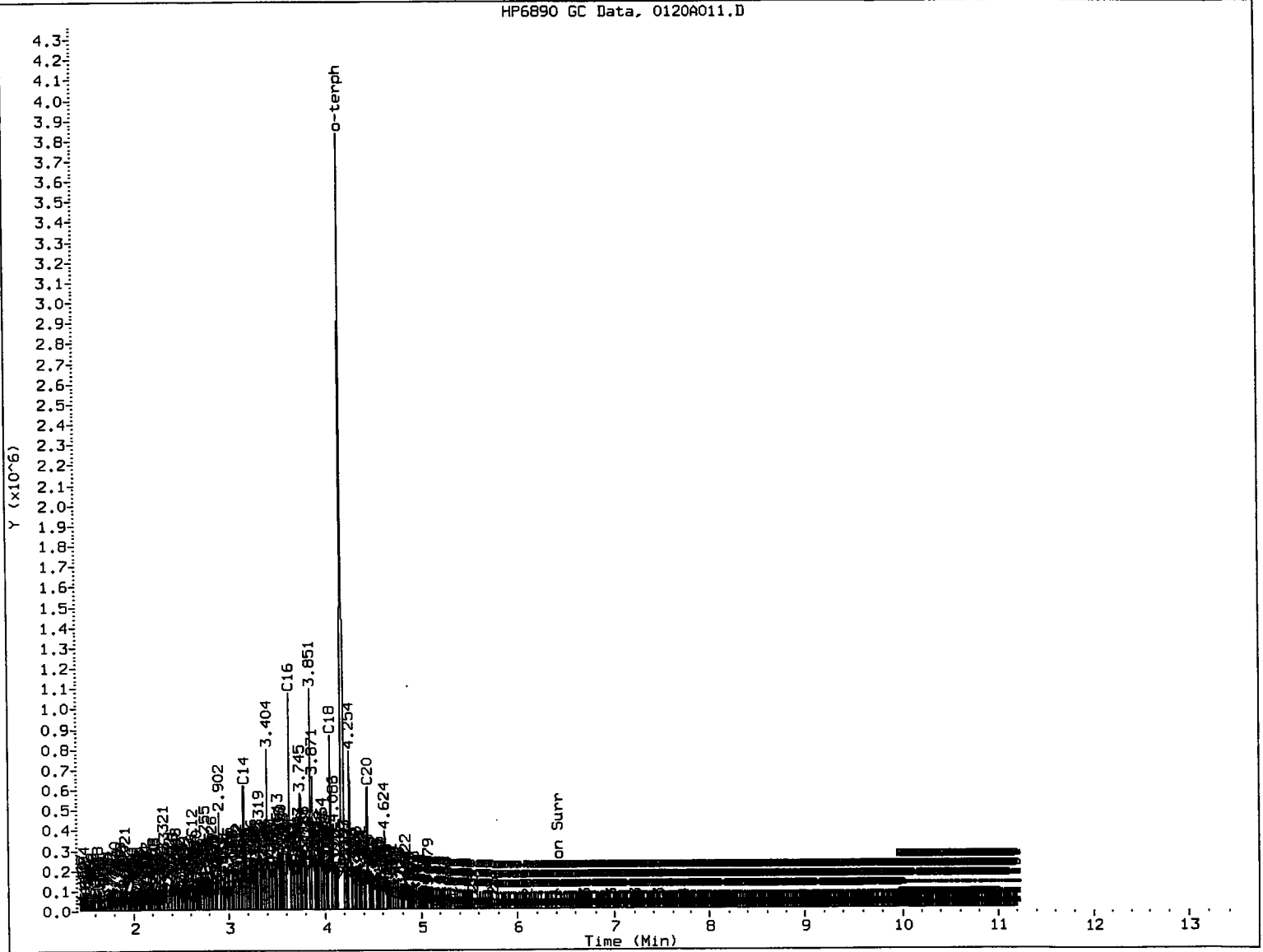
Instrument: fid9.i

Operator: JR

Column diameter: 0.25

/chem2/fid9.i/20110120.b/01200011.D





MANUAL INTEGRATION

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

Analyst: *me* Date: *1/31/16*

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A014.D
Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
Instrument: fid9.i
Operator: JR
Report Date: 01/31/2011

ARI ID: DIESEL 2500
Client ID: DIESEL 2500
Injection: 20-JAN-2011 18:43
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.330	0.028	48886	26518	GAS (Tol-C12)	8667864	413
C8	1.508	-0.011	190423	87408	DIESEL (C12-C24)	54366154	2400
C10	1.987	-0.001	102013	58742	M.OIL (C24-C38)	543839	41
C12	2.619	-0.004	305381	143525	AK-102 (C10-C25)	61175498	2397 M
C14	3.166	0.009	1051930	1383534	AK-103 (C25-C36)	356328	42
C16	3.629	0.003	853504	782975			
C18	4.072	0.023	1511636	2155998			
C20	4.427	-0.008	328601	332087			
C22	4.818	-0.009	106423	27542			
C24	5.327	0.003	145102	128963			
C25	5.548	0.000	65057	80959			
C26	5.749	0.000	26815	29609			
C28	6.105	0.001	3174	3628			
C32	6.702	0.006	80	45	JP-4 (Tol-C14)	18199514	1110
C34	6.953	-0.006	332	298	BUNKERC (C10-C38)	61535761	7273 M
Filter Peak	----						
C36	7.210	0.001	164	108			
C38	7.451	0.003	415	337			
C40	7.721	-0.002	462	387			
o-terph	4.211	0.043	5440645	9564784	JET-A (C10-C18)	45697491	3307
Triacon Surr	6.414	-0.008	657	826	JP8 (Tol-C16)	32362224	1839

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	9564784	446.6	992.4
Triacontane	826	0.0	0.1

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110120.b/0120R014.D

Date: 20-JAN-2011 18:43

Client ID: DIESEL 2500

Sample Info: DIESEL 2500

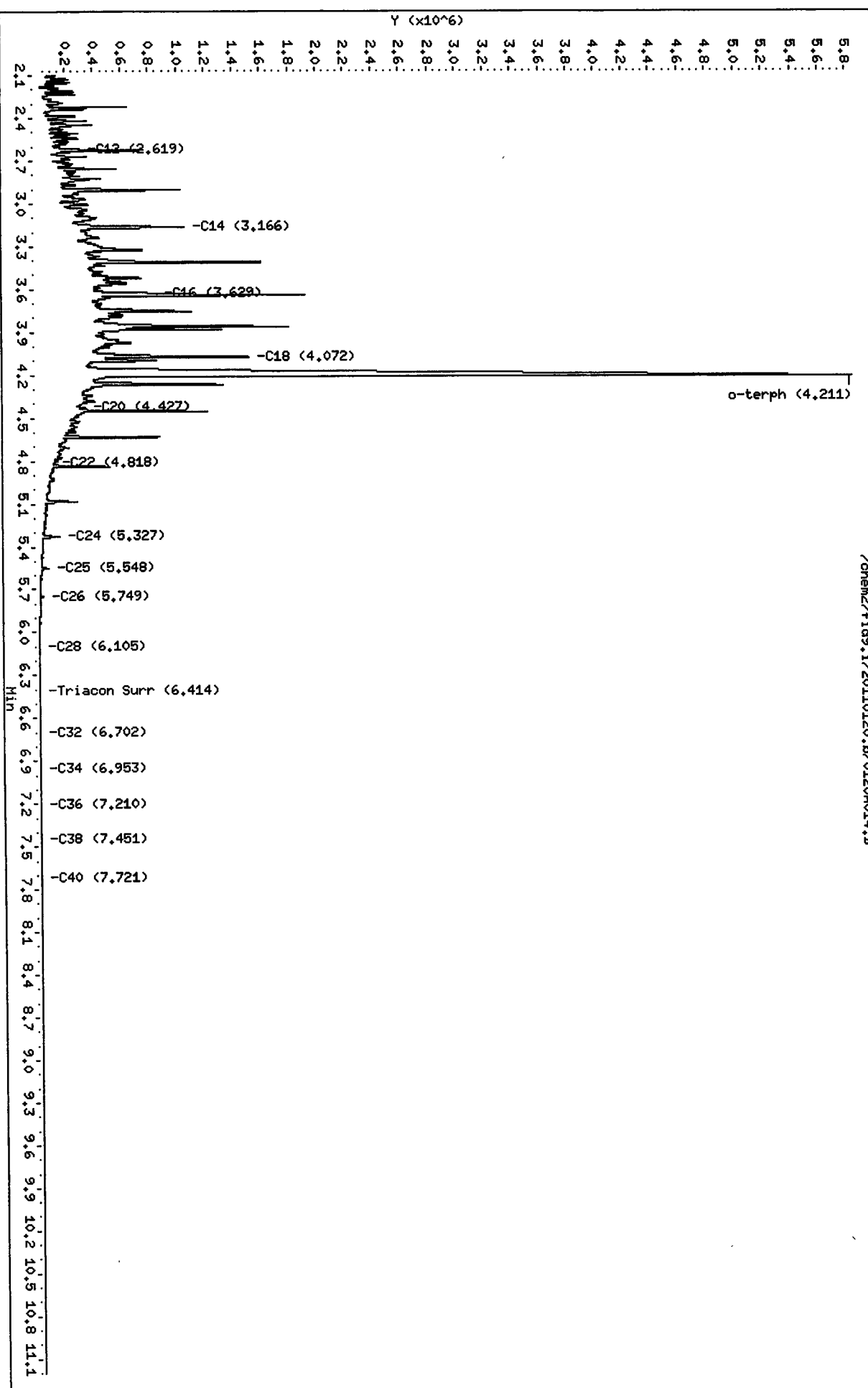
Column phase: RTX-1

Instrument: fid9.i

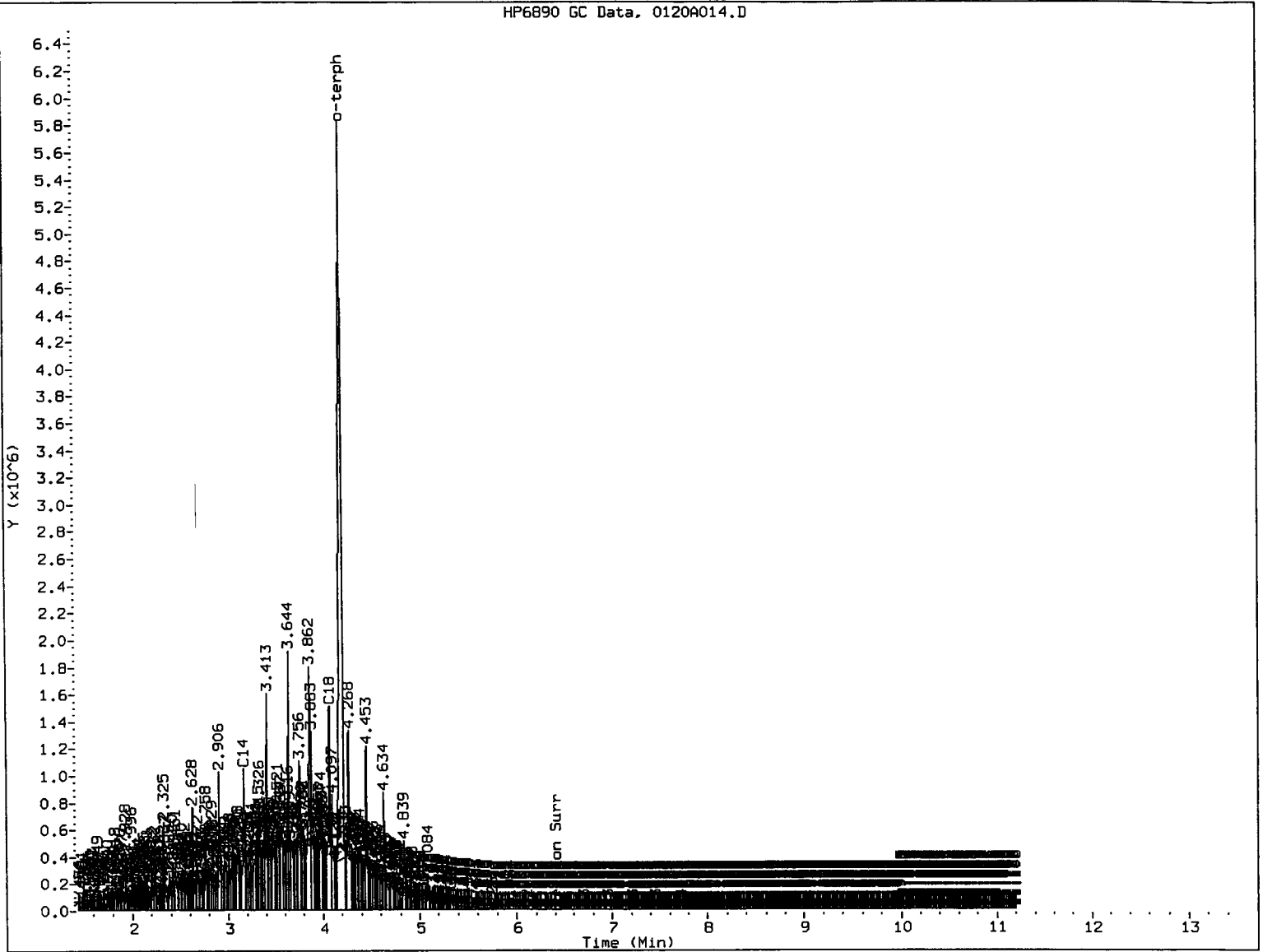
Operator: JR

Column diameter: 0.25

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HP6890 GC Data, 0120A014.D



MANUAL INTEGRATION

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

Analyst:

Date:

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A013.D
Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
Instrument: fid9.i
Operator: JR
Report Date: 01/31/2011

ARI ID: DIESEL ICV
Client ID:
Injection: 20-JAN-2011 18:22
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.327	0.025	8596	8590	GAS (Tol-C12)	2594437	123
C8	1.523	0.004	6840	3036	DIESEL (C12-C24)	4085957	180
C10	1.988	0.000	72486	51468	M.OIL (C24-C38)	110276	8
C12	2.624	0.002	85424	49972	AK-102 (C10-C25)	5879609	230 M
C14	3.160	0.003	152285	89305	AK-103 (C25-C36)	80325	9
C16	3.629	0.002	166029	96649			
C18	4.050	0.001	135860	89403			
C20	4.437	0.001	78367	50620			
C22	4.829	0.002	30349	28725			
C24	5.326	0.002	12083	12408			
C25	5.548	0.001	7380	9404			
C26	5.751	0.002	4267	5788			
C28	6.106	0.003	995	1156			
C32	6.695	-0.001	53	37	JP-4 (Tol-C14)	3670118	224
C34	6.957	-0.002	297	405	BUNKERC (C10-C38)	5966862	705 M
Filter Peak	----						
C36	7.211	0.003	316	158			
C38	7.449	0.001	554	552			
C40	7.724	0.001	729	493			
o-terph	4.175	0.006	2105422	1323882	JET-A (C10-C18)	4718740	341
Triacon Surr	6.415	-0.007	636	658	JP8 (Tol-C16)	4675611	266

72%
1000

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1323882	61.8	137.4
Triacontane	658	0.0	0.1

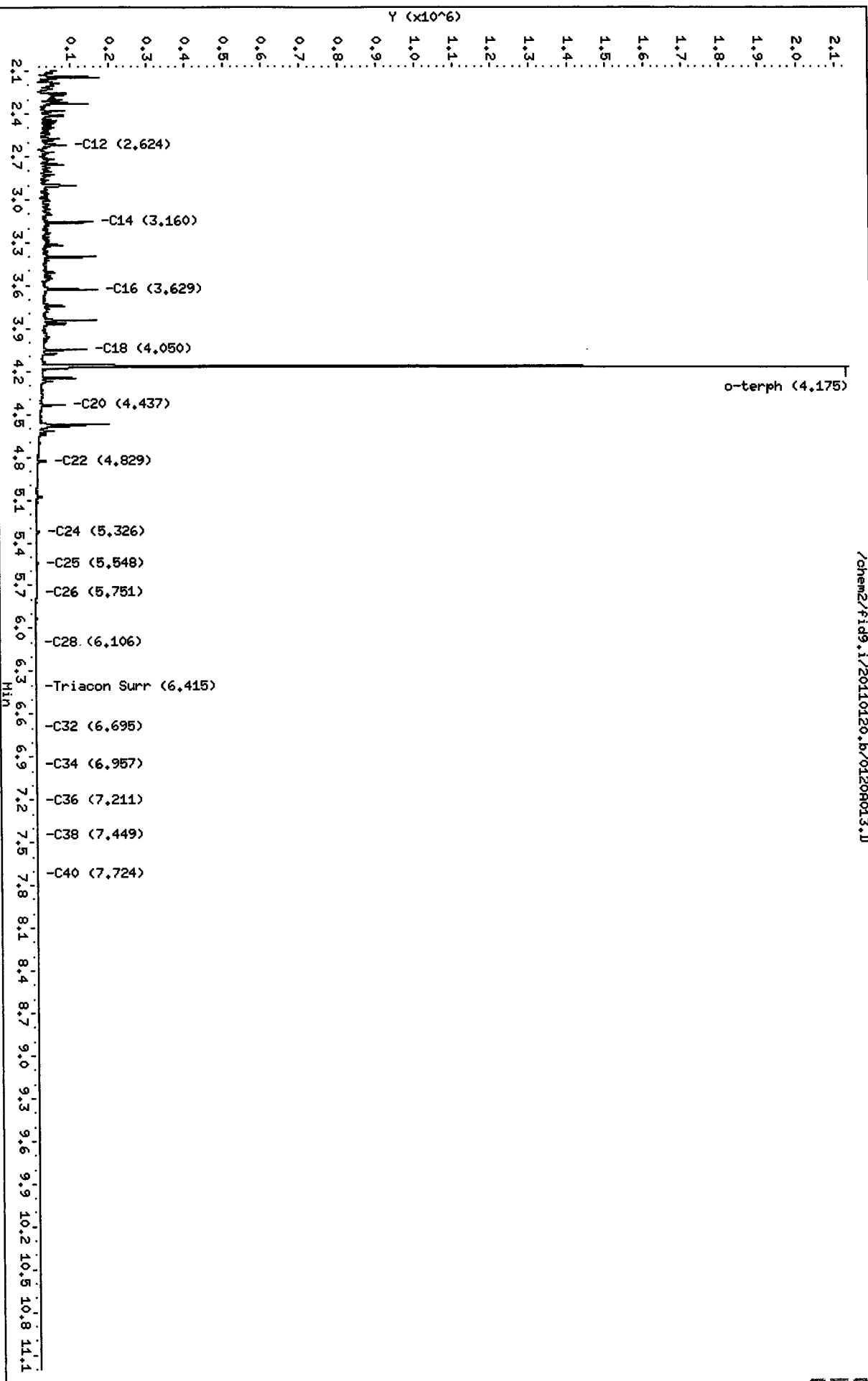
Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110120.b/01200013.D
Date : 20-JAN-2011 18:22
Client ID:
Sample Info: DIESEL ICV

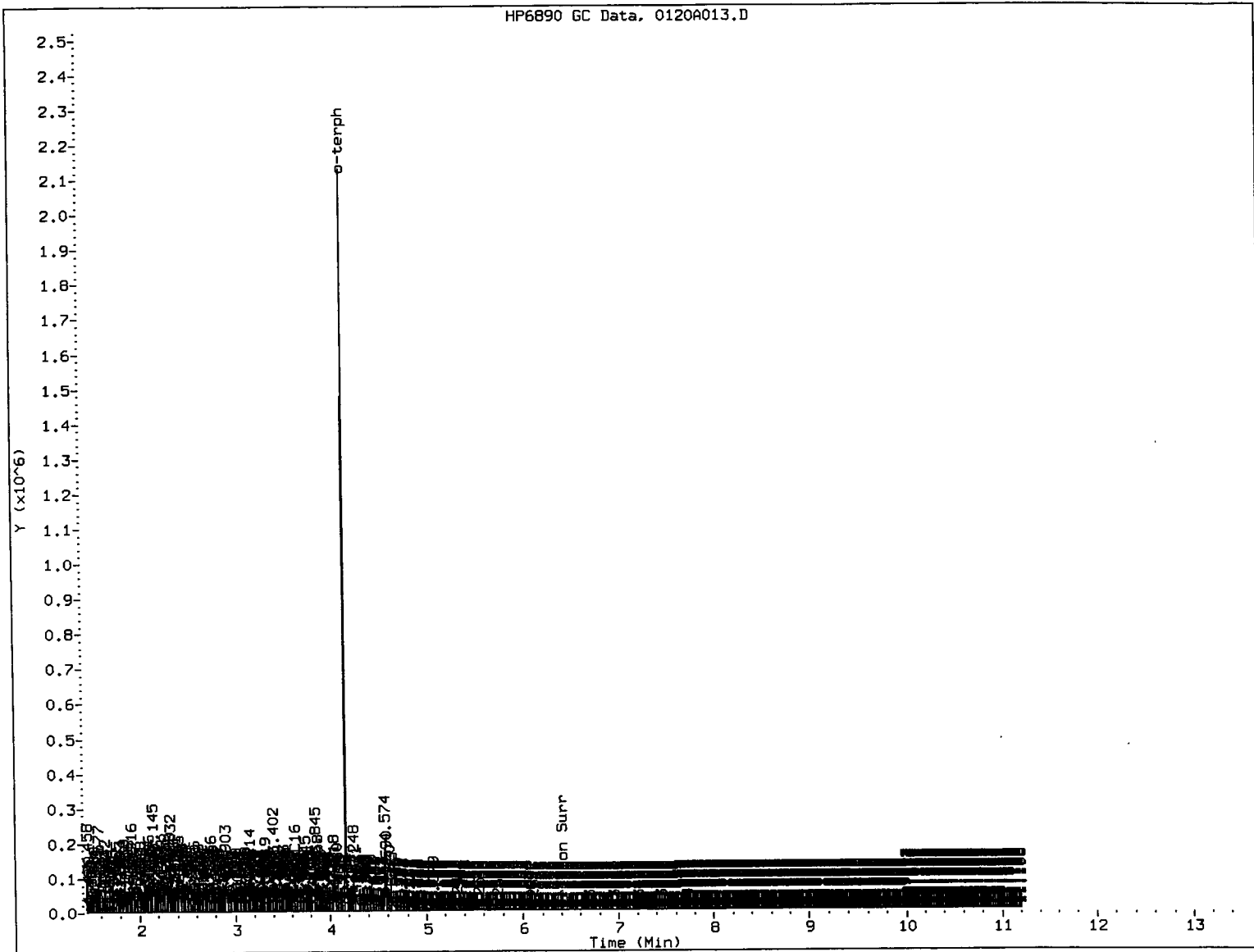
Column phase: RTX-1

Instrument: fid9.i
Operator: JR
Column diameter: 0.25

/chem2/fid9.i/20110120.b/01200013.D



HP6890 GC Data. 0120A013.D



MANUAL INTEGRATION

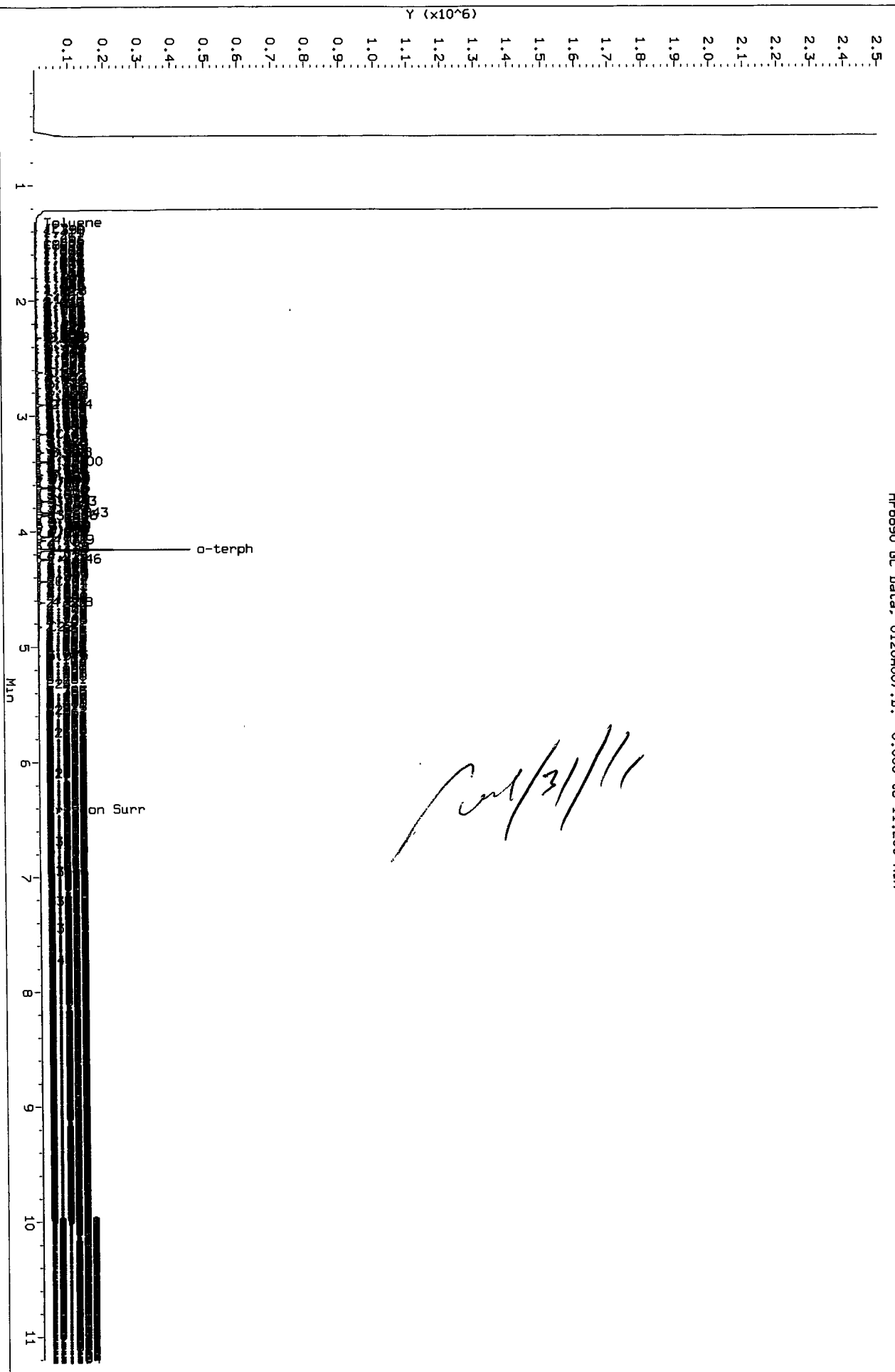
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation
5. Other _____

Analyst: _____

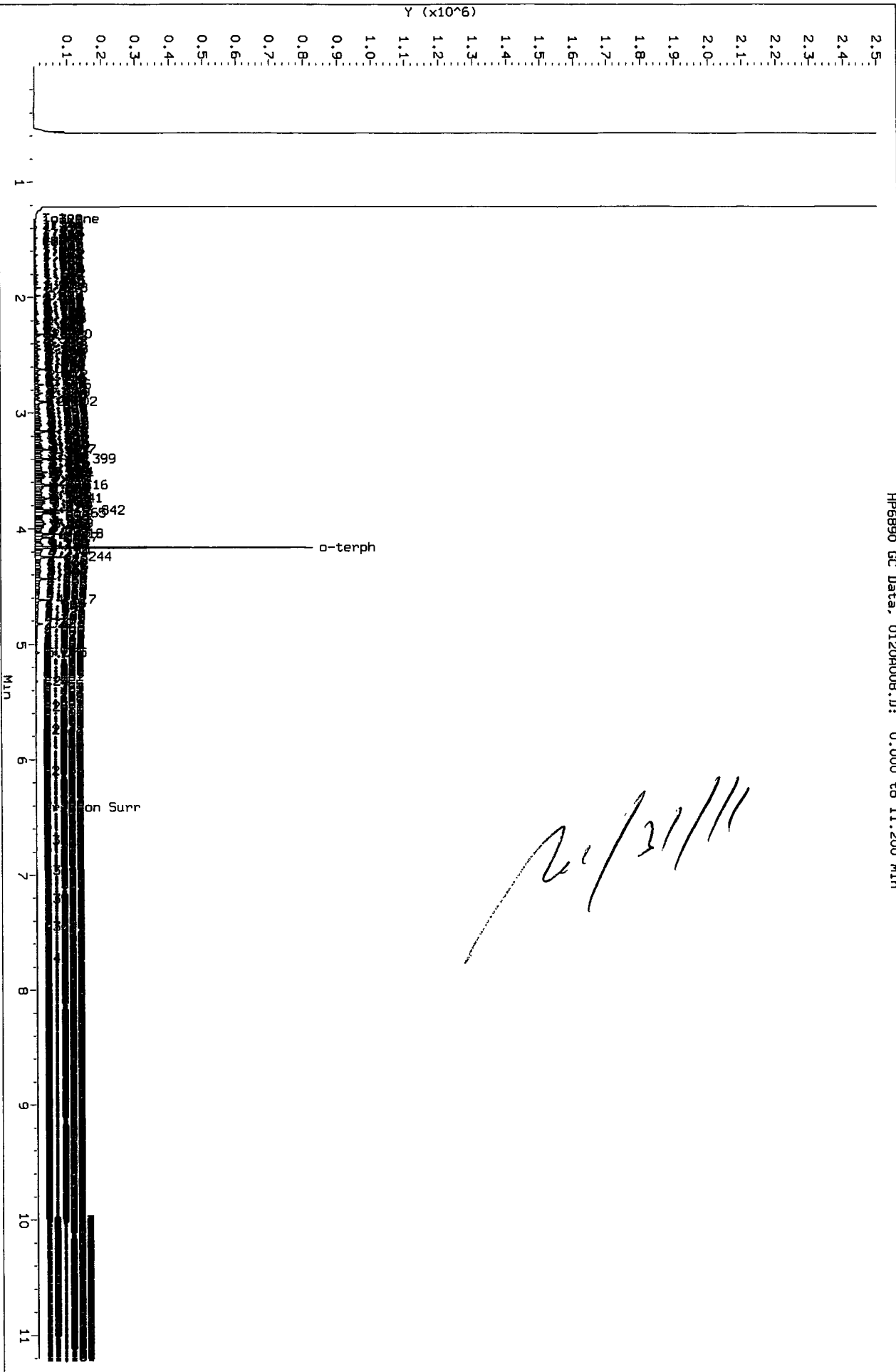
Date: _____

Data File: /chem2/fid9_1/20110120_b/0120R007.D
Injection Date: 20-JAN-2011 16:13
Instrument: fid9_1
Client Sample ID: DIESEL 50

HP6890 GC Data, 0120R007.D: 0.000 to 11.200 Min



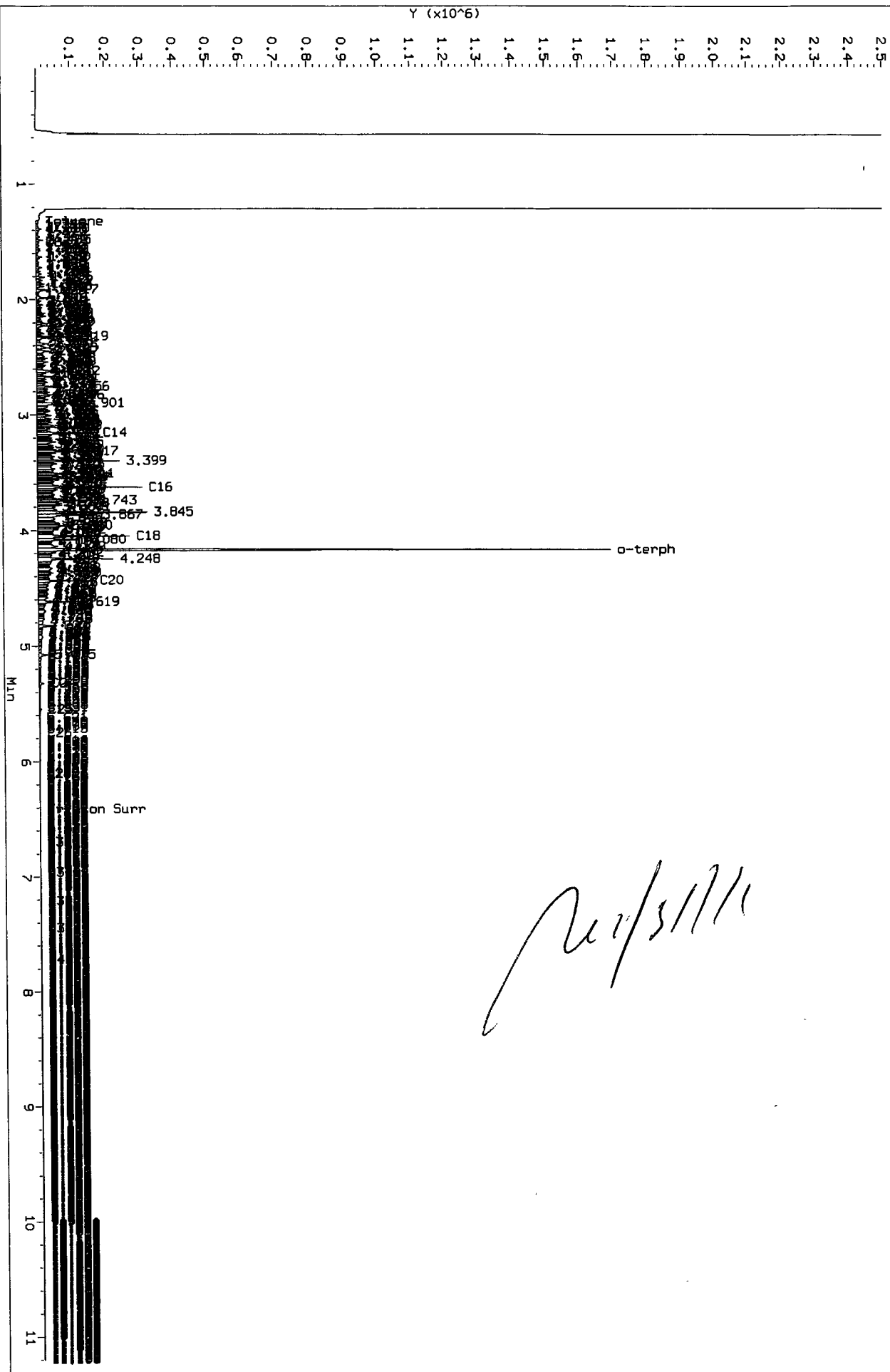
Data File: /chem2/fid9.1/20110120_b/0120R008.D
Injection Date: 20-JAN-2011 16:34
Instrument: fid9.1
Client Sample ID: DIESEL 100



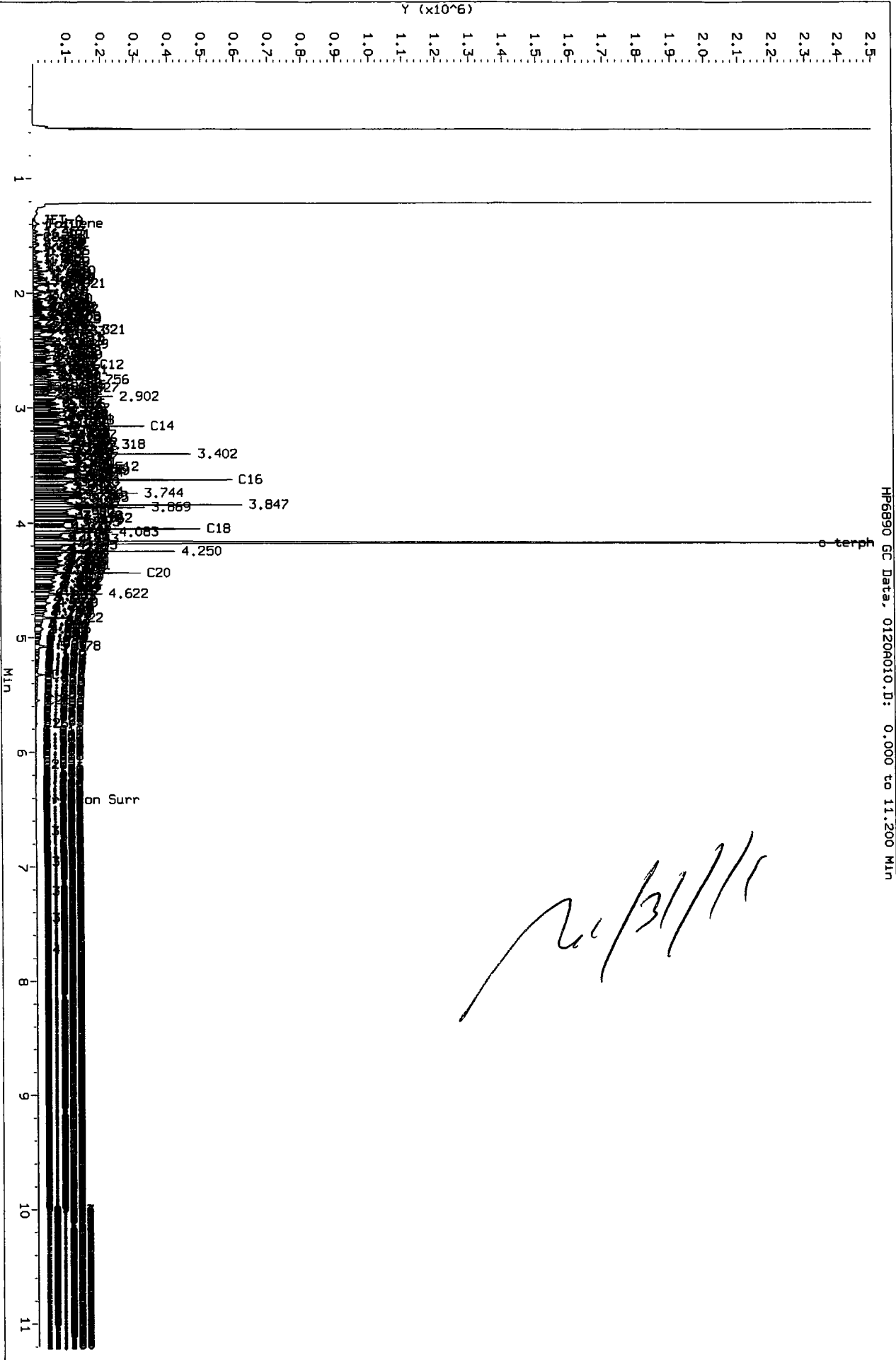
HP6890 GC Data, 0120R008.D: 0.000 to 11.200 Min

Data File: /chem2/fid9.1/20110120.b/0120A009.D
Injection Date: 20-JAN-2011 16:56
Instrument: fid9.1
Client Sample ID: DIESEL 250

HP6890 GC Data, 0120A009.D: 0.000 to 11.200 Min

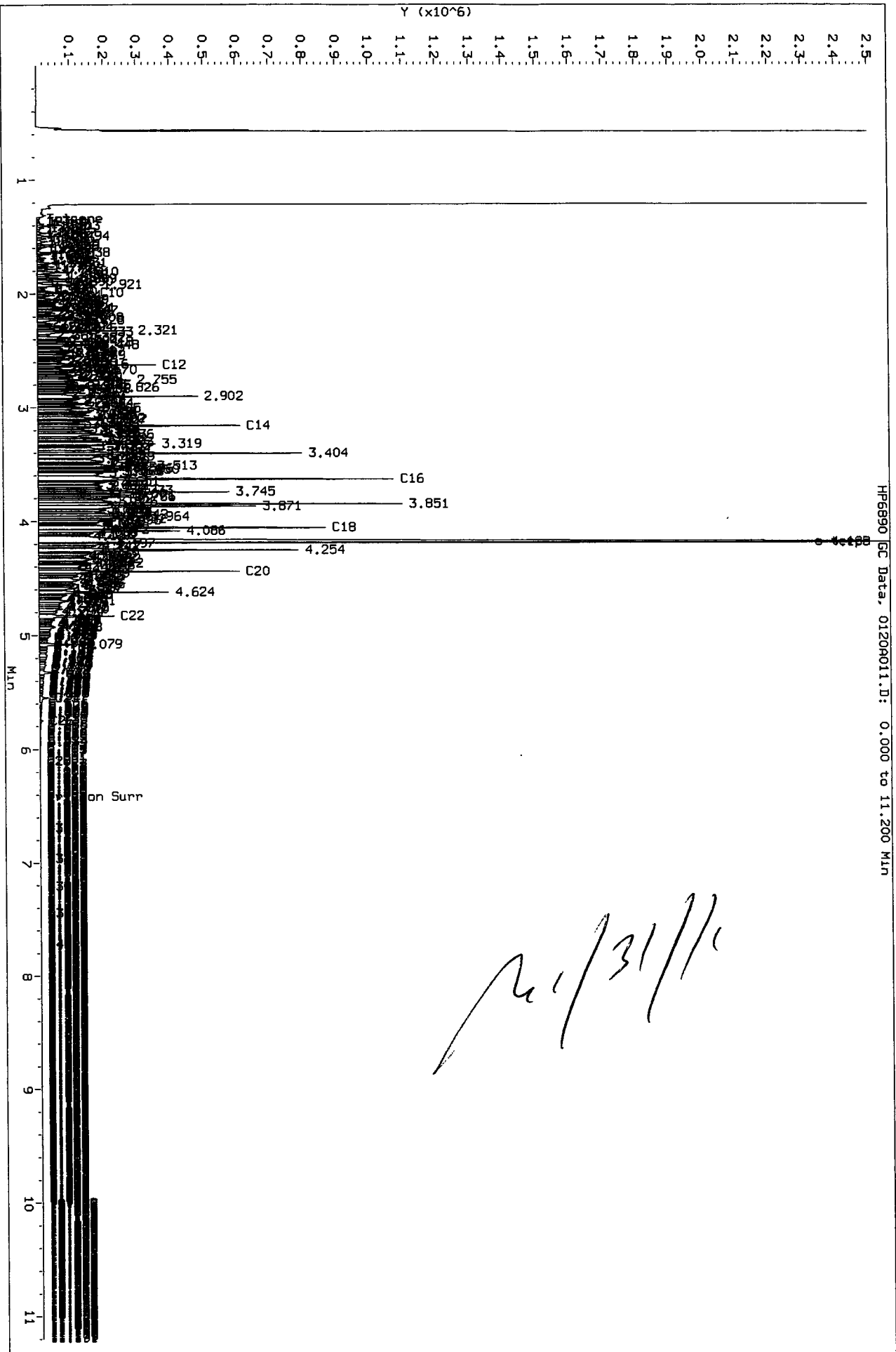


Data File: /chem2/fid9.1/20110120.b/0120R010.D
 Injection Date: 20-JAN-2011 17:17
 Instrument: fid9.1
 Client Sample ID: DIESEL 500



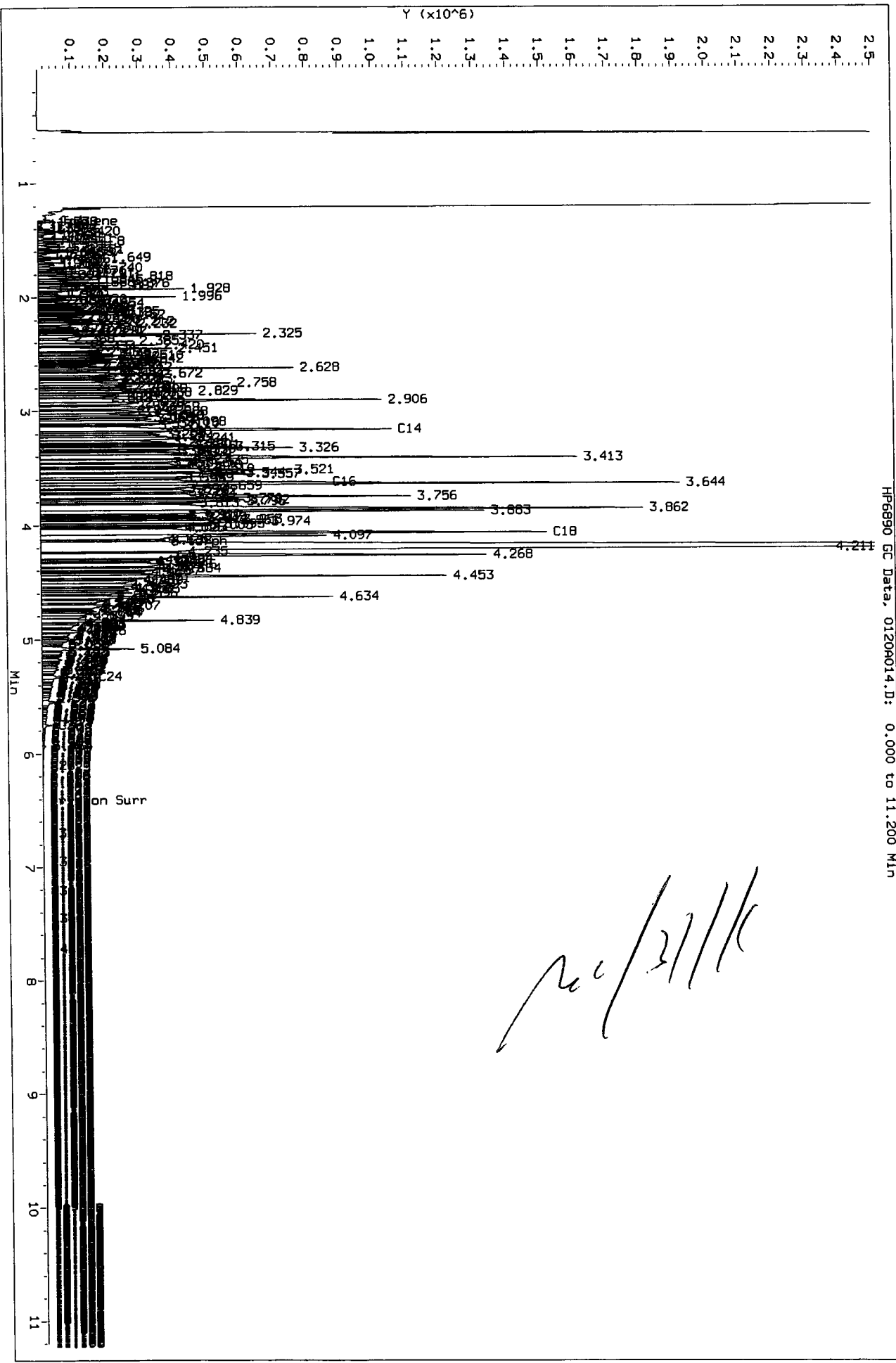
HP6890 GC Data, 0120R010.D: 0.000 to 11.200 Min

Data File: /chem2/fid9_1/20110120_b/0120A011.D
 Injection Date: 20-JAN-2011 17:39
 Instrument: fid9_1
 Client Sample ID: DIESEL 1000



HP6890 GC Data, 0120A011.D: 0.000 to 11.200 MIN

Data File: /chem2/fid9_1/20110120_b/0120A014.D
Injection Date: 20-JAN-2011 18:43
Instrument: fid9.1
Client Sample ID: DIESEL 2500



HP6890 GC Data, 0120A014.D: 0.000 to 11.200 MIN

GC Analyst Notes / Corrective Action Log

ARI Project ID: M.Oil CURVE Client ID: ARI

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): 30 wt. M.Oil, n-Triacontane

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: 1/20/11 Analysis Start: 1/20/11

Endrin/DDT Breakdown <15%?	YES / NO / <u>NA</u>	Method Blank In Control?	YES / NO <u>W/A</u>
ICal Meets RF & %RSD Criteria?	<u>YES</u> / NO	LCS/LCSD Recovery In Control?	YES / NO
CCal Meets RF & %RSD Criteria?	YES / NO <u>W/A</u>	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):

Additional Details on Reverse: Yes / No

Analyst: ma Date: 1/31/11

Reviewer: VB Date: 2.1.11

Analytical Resources Inc.: Organics Instrument Log

FID-9 Agilent 6850 - Serial No.: US10404004

Date: 1/20/11 Analysis: NWTPHD Analyst: ms
 GC Program: PH Column No: 977444 Column Type: Vtx-1
 Instrument Tune (.U or .CT.): _____ EM Voltage: _____
 Calibration File: _____ Curve Date: 1/20/11

IS/SS	Ical/Ccal	LCS/ICV
	1786-1 1787-2 1788-3 1789-2	

Inject	Date/Time	Filename	DF	LabID
1	20-JAN-2011 12:42	0120A001.D	1	RINSE
2	20-JAN-2011 13:03	0120A002.D	1	RINSE
3	20-JAN-2011 13:24	0120A003.D	1	RINSE
4	20-JAN-2011 15:09	0120A004.D	1	RINSE
5	20-JAN-2011 15:30	0120A005.D	1	RT
6	20-JAN-2011 15:52	0120A006.D	1	IB
7	20-JAN-2011 16:13	0120A007.D	1	DIESEL 50
8	20-JAN-2011 16:34	0120A008.D	1	DIESEL 100
9	20-JAN-2011 16:56	0120A009.D	1	DIESEL 250
10	20-JAN-2011 17:17	0120A010.D	1	DIESEL 500
11	20-JAN-2011 17:39	0120A011.D	1	DIESEL 1000
12	20-JAN-2011 18:00	0120A012.D	1	Blank
13	20-JAN-2011 18:22	0120A013.D	1	DIESEL ICV
14	20-JAN-2011 18:43	0120A014.D	1	DIESEL 2500
15	20-JAN-2011 19:04	0120A015.D	1	MOIL 100
16	20-JAN-2011 19:26	0120A016.D	1	MOIL 250
17	20-JAN-2011 19:47	0120A017.D	1	MOIL 500
18	20-JAN-2011 20:08	0120A018.D	1	MOIL 1000
19	20-JAN-2011 20:30	0120A019.D	1	MOIL 2500
20	20-JAN-2011 20:51	0120A020.D	1	MOIL 5000
21	20-JAN-2011 21:12	0120A021.D	1	MOIL ICV
22	20-JAN-2011 21:34	0120A022.D	1	DIESEL#1
23	20-JAN-2011 21:55	0120A023.D	1	MOIL#1
24	20-JAN-2011 22:16	0120A024.D	1	SE57MBW1
25	20-JAN-2011 22:38	0120A025.D	1	SE57LCSW1
26	20-JAN-2011 22:59	0120A026.D	1	SE57LCSDW1
27	20-JAN-2011 23:21	0120A027.D	1	SE57QLS
28	20-JAN-2011 23:42	0120A028.D	1	SE57A
29	21-JAN-2011 00:03	0120A029.D	1	SF16MBS1
30	21-JAN-2011 00:25	0120A030.D	1	SF16LCSS1
31	21-JAN-2011 00:46	0120A031.D	1	SF16LCSDS1
32	21-JAN-2011 01:08	0120A032.D	1	SF16QLS
33	21-JAN-2011 01:29	0120A033.D	10	SF16A
34	21-JAN-2011 01:50	0120A034.D	5	SF16B
35	21-JAN-2011 02:12	0120A035.D	1	DIESEL#2
36	21-JAN-2011 02:33	0120A036.D	1	MOIL#2

ms 1/24/11

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.

SF26:01174

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/fid9.i/20110120.b

ARI Job No.: MOIL Method: ftphfid9a.m Instrument: fid9.i Date: 20-JAN-2011

Time Filename LabID ClientId DF Manually Integrated Compounds

1904 0120A015.D MOIL 100 MOIL 100 1 Triacon Surr,

1926 0120A016.D MOIL 250 MOIL 250 1 Triacon Surr,

1947 0120A017.D MOIL 500 MOIL 500 1 Triacon Surr,

2008 0120A018.D MOIL 1000 MOIL 1000 1 Triacon Surr,

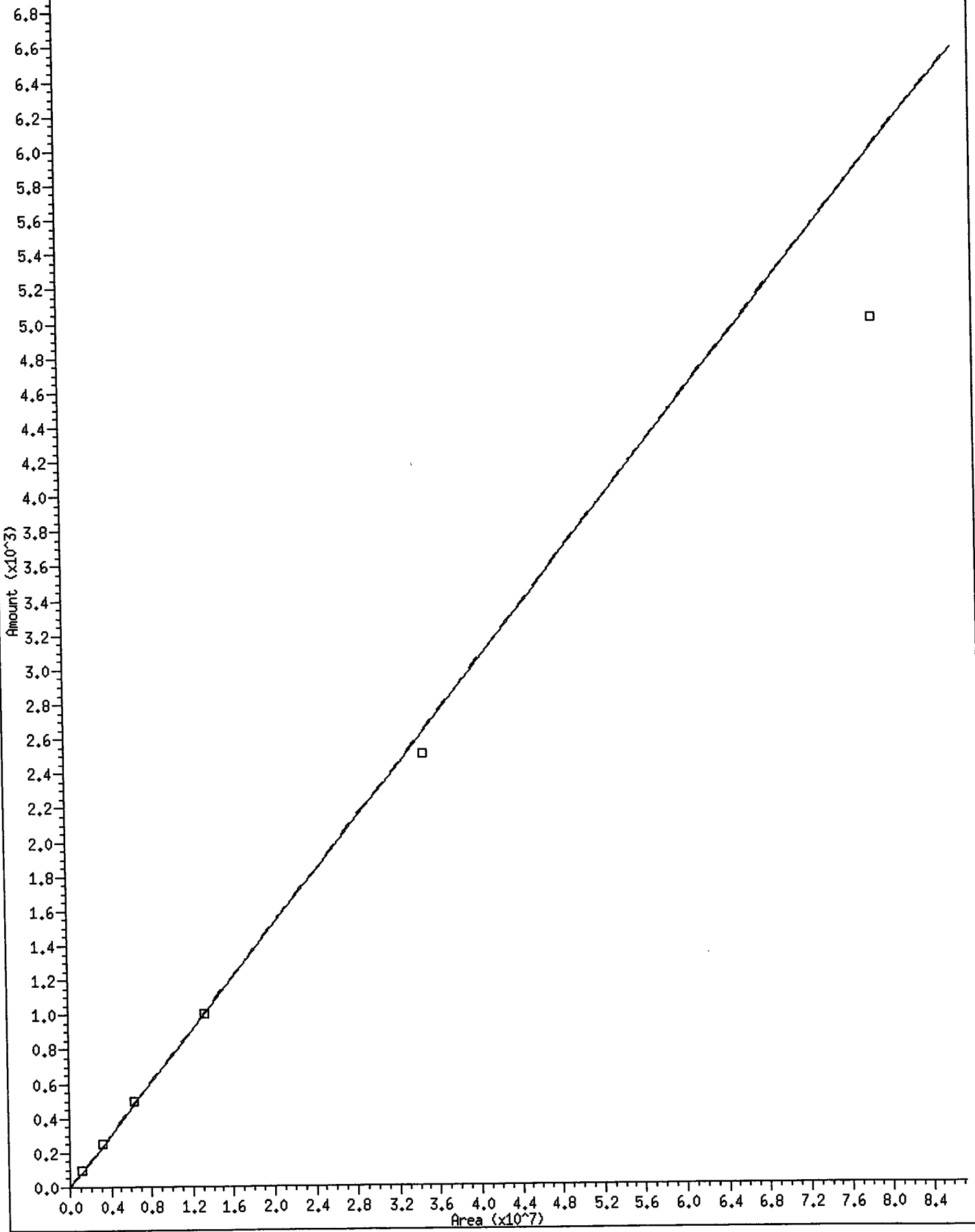
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2051 0120A020.D MOIL 5000 MOIL 5000 1 Triacon Surr,

2112 0120A021.D MOIL ICV MOIL ICV 1 Triacon Surr,

30 NW MO11

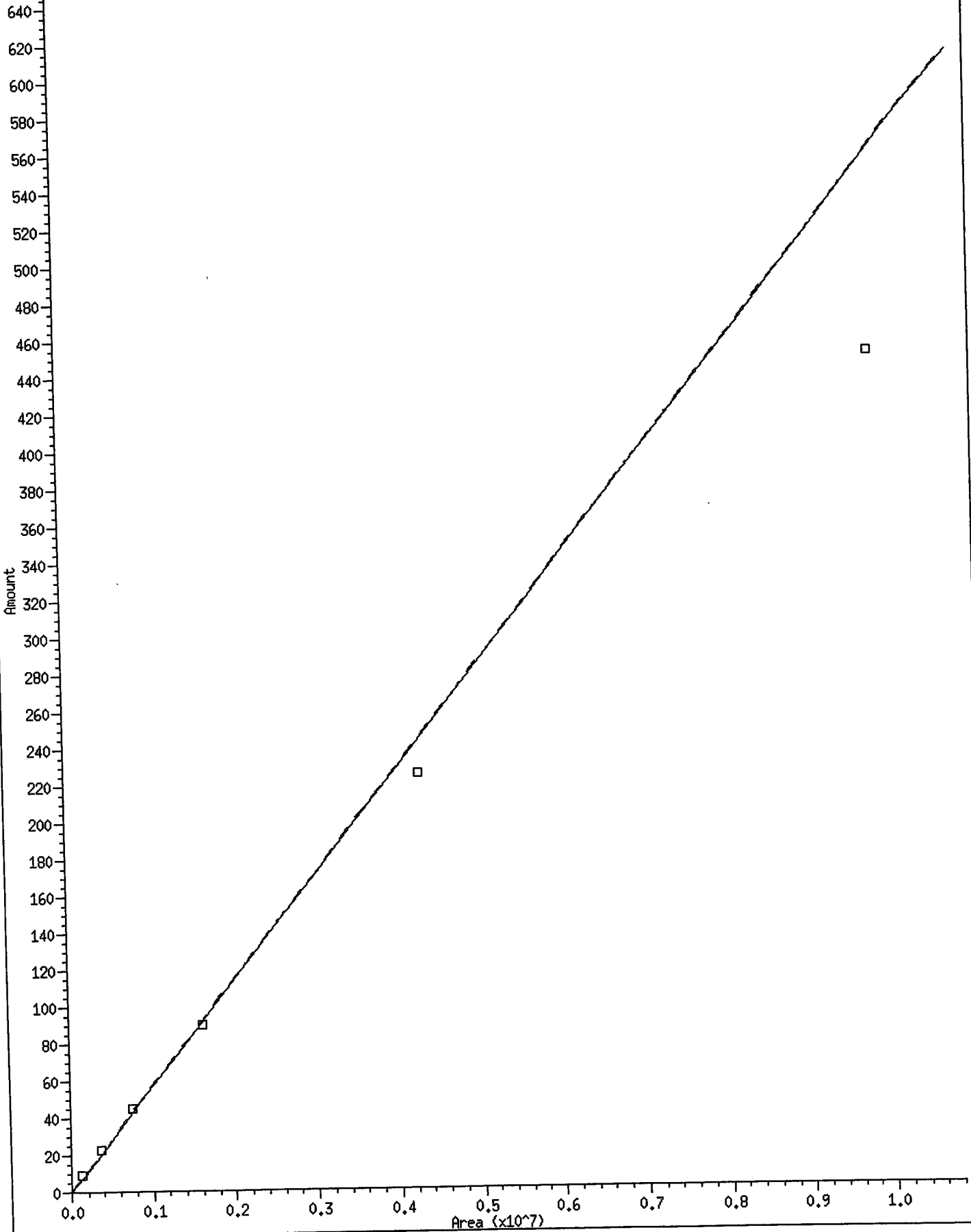
Curve Type: Averaged By-Response
Amt = Rsp/13263.61
%RSD: 11.505



SF26: 01176

* 15 Triacon Surr

Curve Type: Averaged By-Response
Amt = Rsp/17626.36
%RSD: 14.943



SF26: 01177

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/fid9.i/20110120.b/ftphfid9a.m
Batch File: /chem2/fid9.i/20110120.b
Inst ID: fid9.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Toluene	1.325	1.323	1.324	1.398	1.339	1.330	1.303	1.203-1.403	1.340	0.029
37 JET-A	1.375	1.379	1.376	1.364	1.370	1.379	1.370	1.320-1.420	1.374	0.006
2 C8	1.518	1.519	1.507	1.514	1.518	1.508	1.519	1.419-1.619	1.514	0.005
3 C10	1.986	1.986	1.986	1.990	1.990	1.987	1.988	1.938-2.038	1.987	0.002
4 C12	2.624	2.624	2.624	2.625	2.624	2.619	2.623	2.573-2.673	2.623	0.002
5 C14	3.160	3.158	3.158	3.159	3.160	3.166	3.156	3.106-3.206	3.160	0.003
6 C16	3.627	3.626	3.628	3.631	3.633	3.629	3.627	3.577-3.677	3.629	0.003
7 C18	4.048	4.047	4.050	4.054	4.058	4.072	4.049	3.999-4.099	4.055	0.010
8 o-terph	4.162	4.163	4.172	4.180	4.189	4.211	4.168	4.118-4.218	4.179	0.019
9 C20	4.434	4.434	4.436	4.438	4.441	4.427	4.435	4.385-4.485	4.435	0.005
10 C22	4.826	4.825	4.827	4.829	4.832	4.818	4.827	4.777-4.877	4.826	0.005
11 C24	5.323	5.322	5.324	5.325	5.325	5.327	5.324	5.274-5.374	5.324	0.002
12 C25	5.548	5.546	5.547	5.549	5.547	5.548	5.548	5.498-5.598	5.547	0.001
13 C26	5.749	5.749	5.750	5.751	5.750	5.749	5.749	5.699-5.799	5.750	0.001
14 C28	6.100	6.101	6.103	6.106	6.105	6.105	6.104	6.054-6.154	6.103	0.003
15 Triacon Surr	6.413	6.413	6.414	6.414	6.417	6.414	6.422	6.372-6.472	6.415	0.002
16 C32	6.691	6.697	6.699	6.692	6.695	6.702	6.696	6.646-6.746	6.696	0.004

Reviewer 1 _____ Date: 2/1/11
 Reviewer 2 _____ Date: 2-1-11

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem2/fid9.i/20110120.b/ftphfid9a.m
Batch File: /chem2/fid9.i/20110120.b
Inst ID: fid9.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
17 C34	6.953	6.959	6.959	6.955	6.964	6.953	6.959	6.909-7.009	6.957	0.005
18 Filter Peak	+++++	+++++	+++++	+++++	+++++	+++++	12.769	12.669-12.869	+++++	+++++
19 C36	7.210	7.206	7.208	7.213	7.209	7.210	7.209	7.159-7.259	7.209	0.002
20 C38	7.447	7.448	7.449	7.449	7.450	7.451	7.448	7.398-7.498	7.449	0.001
21 C40	7.725	7.725	7.722	7.727	7.723	7.721	7.723	7.673-7.773	7.724	0.002
31 NW Diesel	+++++	+++++	+++++	+++++	+++++	+++++	0.513	0.463-0.563	+++++	+++++
32 OR Diesel	+++++	+++++	+++++	+++++	+++++	+++++	0.690	0.640-0.740	+++++	+++++
33 AK Dies 102	+++++	+++++	+++++	+++++	+++++	+++++	0.660	0.610-0.710	+++++	+++++
30 NW MOil	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
34 OR MOil	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
35 AK MOil 103	+++++	+++++	+++++	+++++	+++++	+++++	0.658	0.608-0.708	+++++	+++++
38 Bunker C	+++++	+++++	+++++	+++++	+++++	+++++	0.705	0.655-0.755	+++++	+++++
39 Creosote	+++++	+++++	+++++	+++++	+++++	+++++	0.550	0.500-0.600	+++++	+++++

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A005.D
Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
Instrument: fid9.i
Operator: JR
Report Date: 01/31/2011

ARI ID: RT
Client ID: RT
Injection: 20-JAN-2011 15:30
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS							
Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.303	0.000	383937	277413	GAS (Tol-C12)	998508	48 M
C8	1.519	0.000	53885	28465	DIESEL (C12-C24)	1655661	73
C10	1.988	0.000	657169	294726	M.OIL (C24-C38)	1825693	138
C12	2.623	0.000	676220	289238	AK-102 (C10-C25)	2271772	89
C14	3.156	0.000	587065	285605	AK-103 (C25-C36)	1573197	185
C16	3.627	0.000	678327	282100			
C18	4.049	0.000	649103	277428			
C20	4.435	0.000	617954	270911			
C22	4.827	0.000	422551	260123			
C24	5.324	0.000	385629	251401			
C25	5.548	0.000	508484	337875			
C26	5.749	0.000	386378	243690			
C28	6.104	0.000	394465	236165			
C32	6.696	0.000	375697	230951	JP-4 (Tol-C14)	1294923	79 M
C34	6.959	0.000	351484	236984	BUNKERC (C10-C38)	4092053	484
Filter Peak	----						
C36	7.209	0.000	339607	248990			
C38	7.448	0.000	272516	232146			
C40	7.723	0.000	188027	195470			
o-terph	4.168	0.000	1676827	913732	JET-A (C10-C18)	1475173	107
Triacon Surr	6.422	0.000	1043688	719648	JP8 (Tol-C16)	1582493	90 M

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	913732	42.7	94.8
Triacotane	719648	40.8	90.7

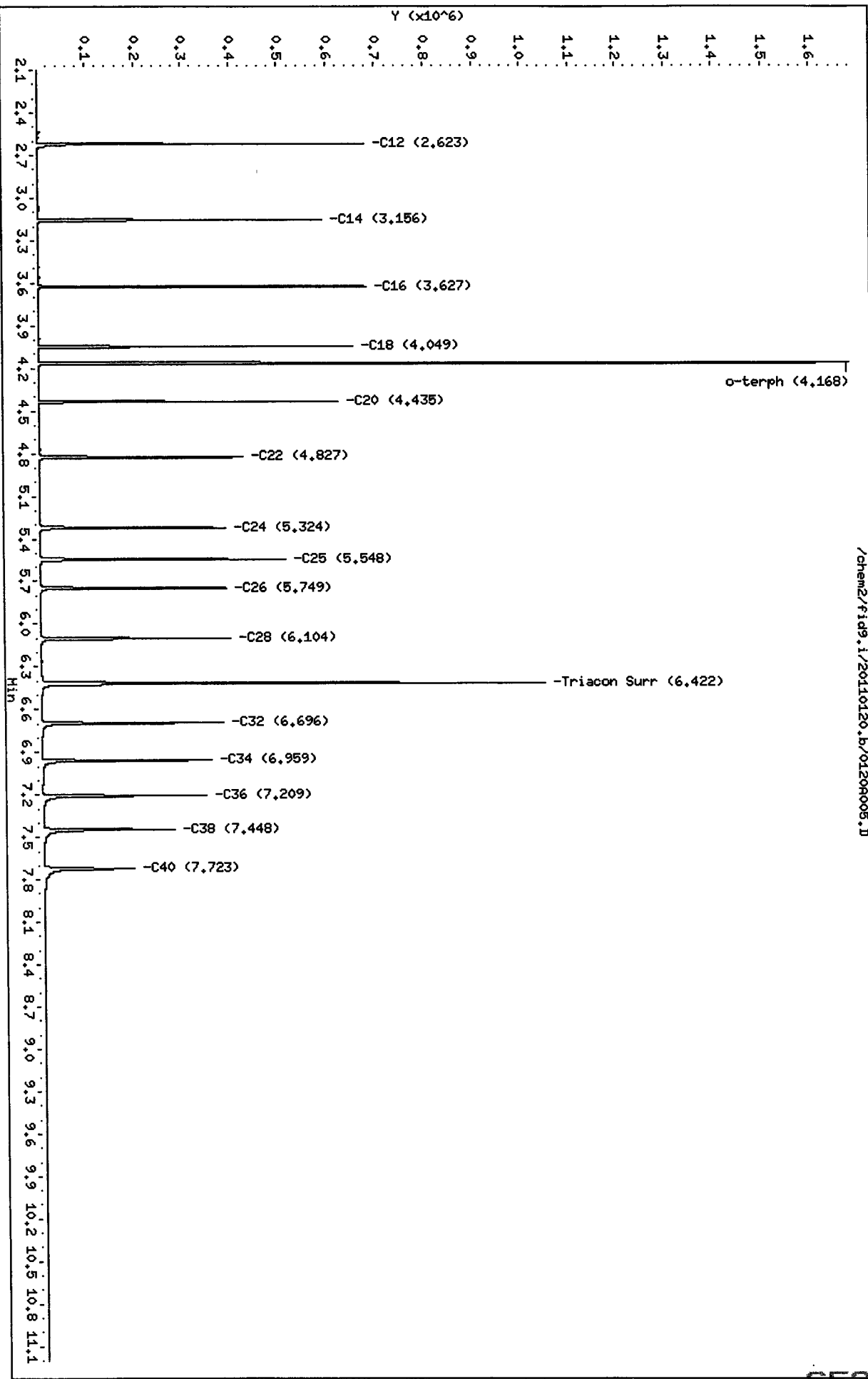
Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110120.b/01209005.D
Date: 20-JAN-2011 15:30
Client ID: RT
Sample Info: RT

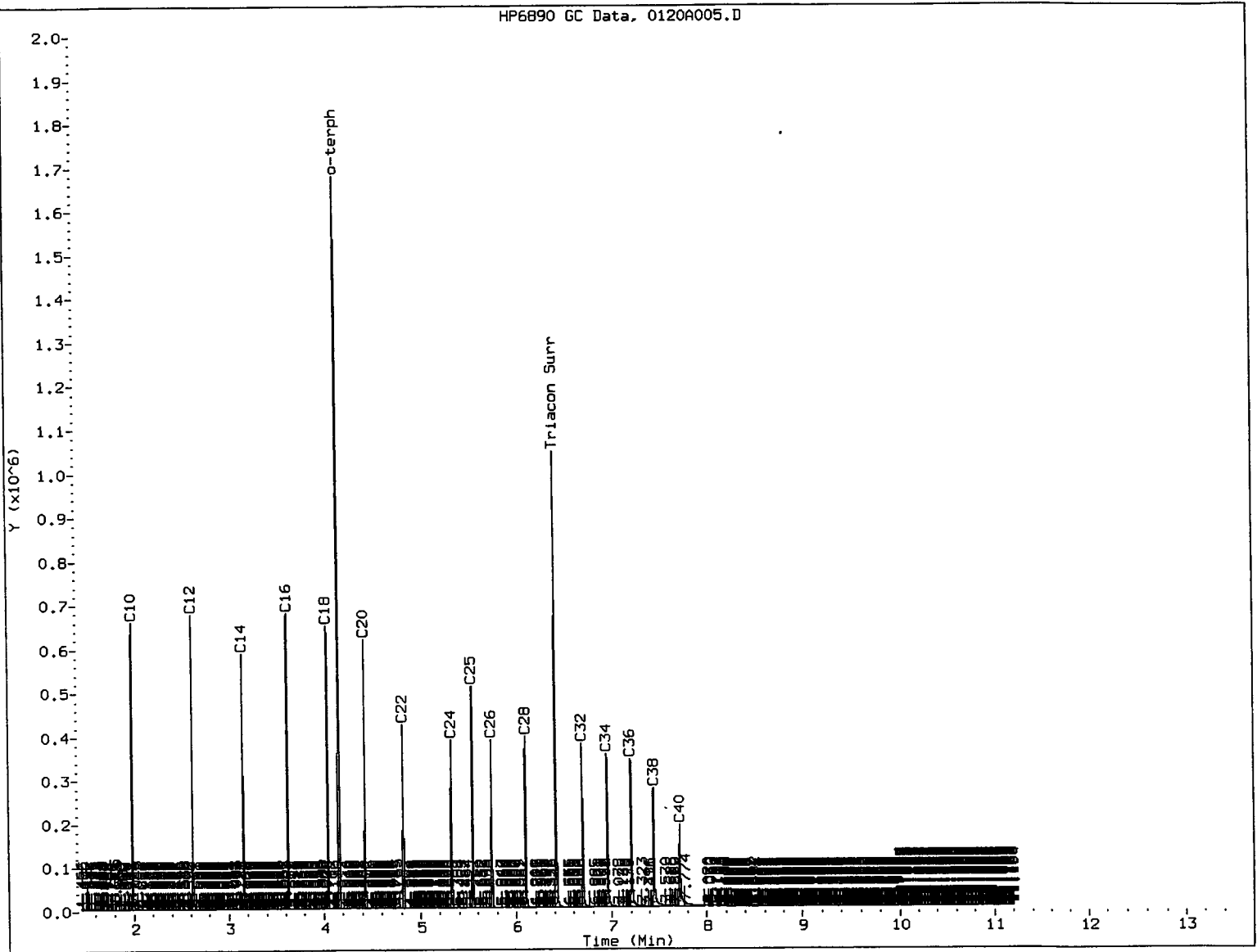
Column phase: RTX-1

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Instrument: fid9.i
Operator: JR
Column diameter: 0.25



HP6890 GC Data, 0120A005.D



MANUAL INTEGRATION

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

Analyst: Ac Date: 1/31/11

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A006.D
Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
Instrument: fid9.i
Operator: JR
Report Date: 01/31/2011

ARI ID: IB
Client ID:
Injection: 20-JAN-2011 15:52
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.322	0.019	63463	64572	GAS (Tol-C12)	139212	7
C8	1.519	0.000	7460	7425	DIESEL (C12-C24)	22665	1
C10	1.987	-0.001	1338	1740	M.OIL (C24-C38)	44620	3
C12	2.612	-0.011	706	1274	AK-102 (C10-C25)	44595	2
C14	3.152	-0.005	306	190	AK-103 (C25-C36)	32471	4
C16	3.625	-0.002	165	22			
C18	4.049	0.000	184	200			
C20	4.437	0.002	136	115			
C22	4.830	0.003	67	18			
C24	5.318	-0.006	33	22			
C25	5.546	-0.002	53	25			
C26	5.745	-0.004	45	34			
C28	6.099	-0.005	256	173			
C32	6.695	-0.001	1292	2211	JP-4 (Tol-C14)	148417	9
C34	6.957	-0.002	875	1419	BUNKERC (C10-C38)	89113	11
Filter Peak	----						
C36	7.209	0.000	656	194			
C38	7.447	-0.001	938	390			
C40	7.718	-0.005	1264	377			
o-terph	4.171	0.003	1830174	1085386	JET-A (C10-C18)	40391	3
Triacon Surr	6.421	-0.001	1029861	732679	JP8 (Tol-C16)	154222	9

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1085386	50.7	112.6
Triacontane	732679	41.6	92.4

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Handwritten signature and date: JR 1/31/11

Data File: /chem2/fid9.i/20110120.b/01200006.D
Date: 20-Jan-2011 15:52

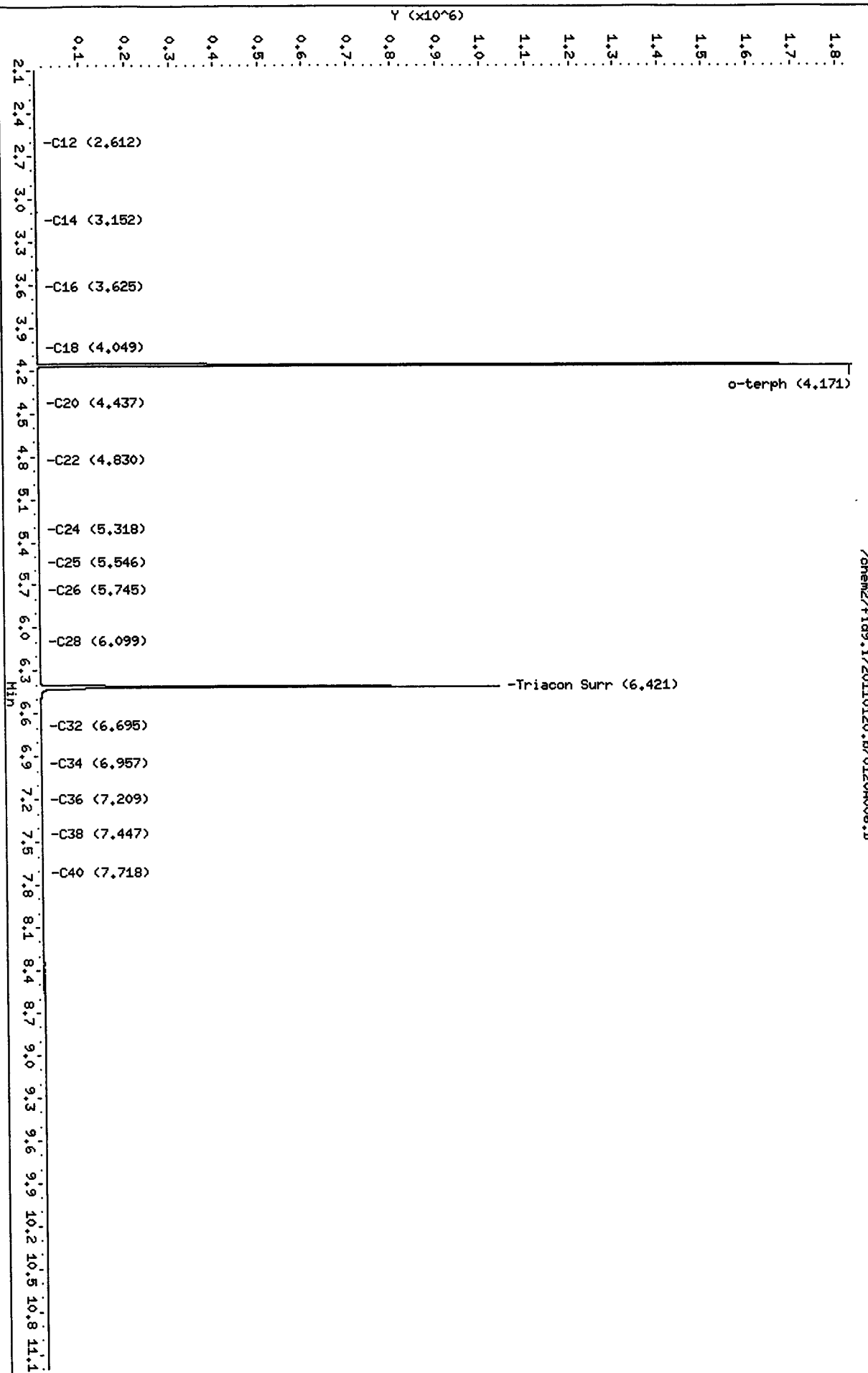
Client ID:
Sample Info: IB

Column phase: RTX-1

Instrument: fid9.i

Operator: JR
Column diameter: 0.25

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Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A015.D
Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
Instrument: fid9.i
Operator: JR
Report Date: 01/31/2011

ARI ID: MOIL 100
Client ID: MOIL 100
Injection: 20-JAN-2011 19:04
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.389	0.087	5706	7708	GAS (Tol-C12)	93925	4
C8	1.520	0.001	2852	4411	DIESEL (C12-C24)	144444	6
C10	1.989	0.001	1022	660	M.OIL (C24-C38)	1136455	86
C12	2.634	0.011	1012	2014	AK-102 (C10-C25)	193252	8
C14	3.146	-0.010	120	106	AK-103 (C25-C36)	953994	112 M
C16	3.622	-0.004	46	22			
C18	4.057	0.008	518	366			
C20	4.438	0.003	947	1071			
C22	4.821	-0.006	1921	1273			
C24	5.322	-0.002	3662	2456			
C25	5.544	-0.004	4924	3028			
C26	5.750	0.001	6100	2283			
C28	6.101	-0.003	8149	3201			
C32	6.693	-0.003	11119	10215	JP-4 (Tol-C14)	99958	6
C34	6.953	-0.006	12526	8399	BUNKERC (C10-C38)	1301044	154 M
Filter Peak	----						
C36	7.214	0.005	11528	8064			
C38	7.451	0.003	10890	5404			
C40	7.731	0.008	7400	1762			
o-terph	4.171	0.003	3037	2005	JET-A (C10-C18)	37543	3
Triacon Surr	6.413	-0.008	240819	127466	JP8 (Tol-C16)	104076	6

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	2005	0.1	0.2
Triacontane	127466	7.2	16.1

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110120.b/01200015.D

Date: 20-JAN-2011 19:04

Client ID: MOIL 100

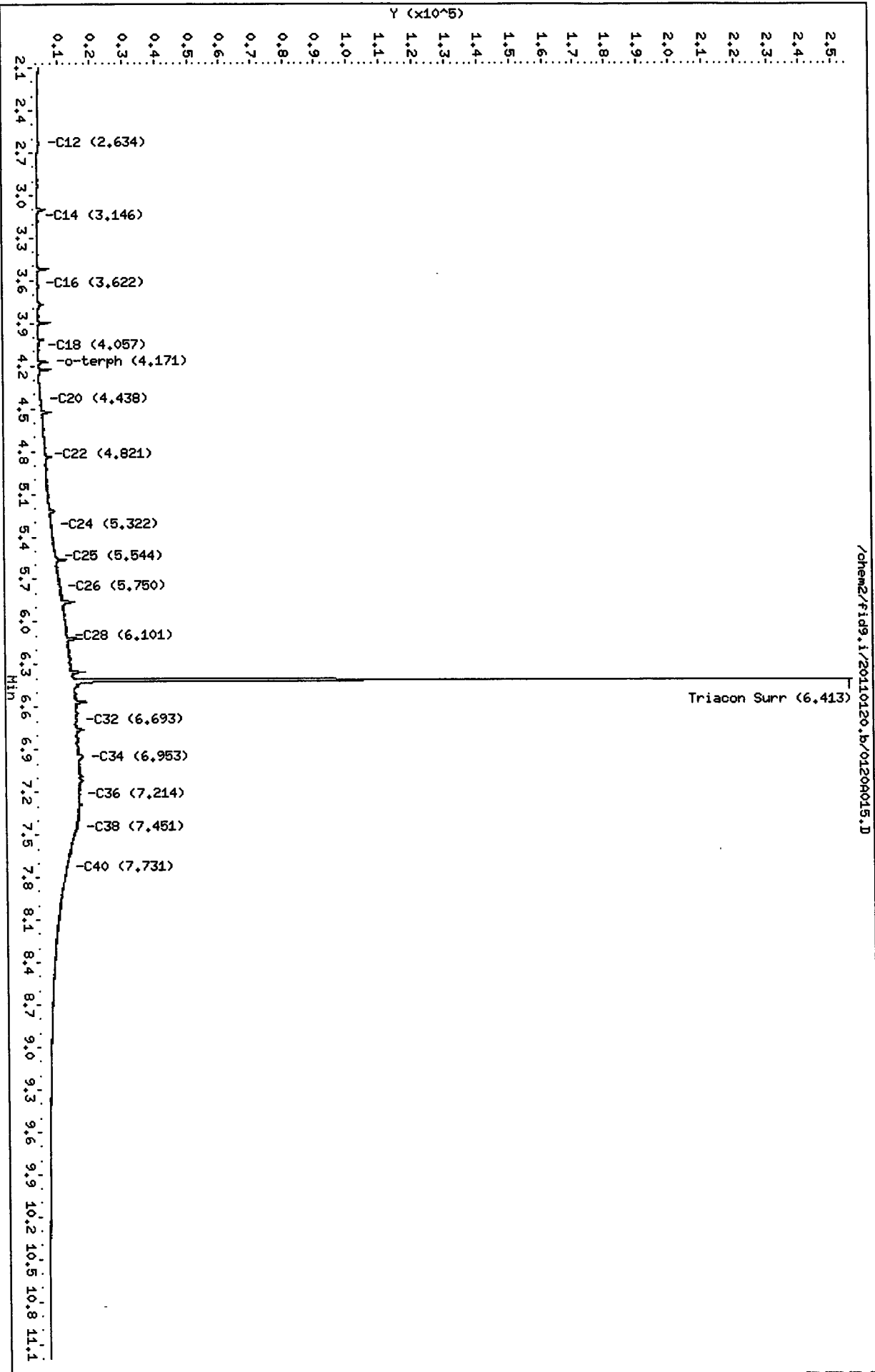
Sample Info: MOIL 100

Column phase: RTX-1

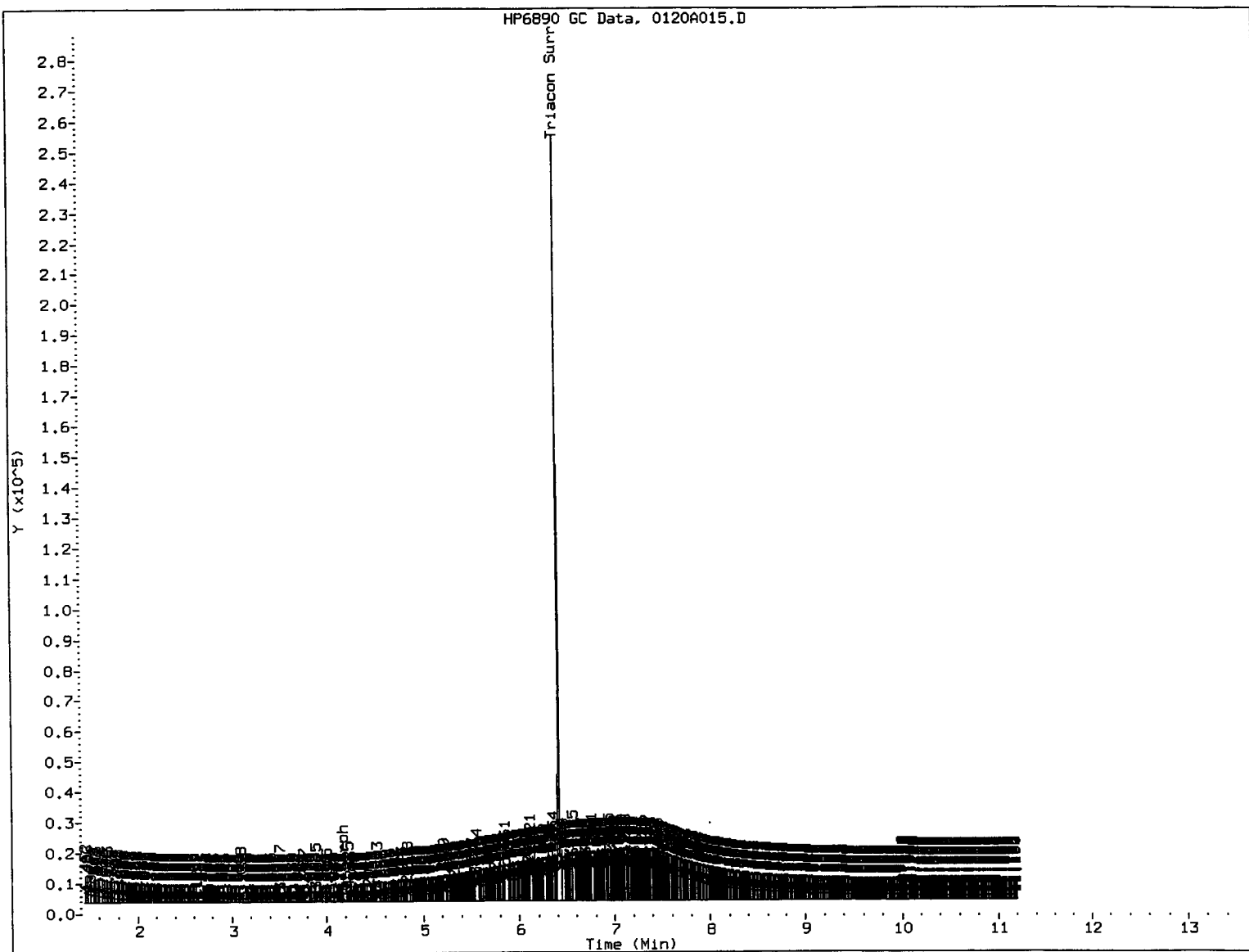
Instrument: fid9.i

Operator: JR

Column diameter: 0.25



00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25



MANUAL INTEGRATION

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

Analyst: [Signature]

Date: 7/31/11

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A016.D
 Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: JR
 Report Date: 01/31/2011

ARI ID: MOIL 250
 Client ID: MOIL 250
 Injection: 20-JAN-2011 19:26
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.321	0.018	24499	34002	GAS (Tol-C12)	114803	5
C8	1.516	-0.003	2675	5530	DIESEL (C12-C24)	373276	16
C10	1.987	-0.001	1203	885	M.OIL (C24-C38)	3123579	235
C12	2.624	0.001	598	824	AK-102 (C10-C25)	480106	19
C14	3.163	0.006	127	50	AK-103 (C25-C36)	2638889	311 M
C16	3.617	-0.010	58	52			
C18	4.054	0.005	452	382			
C20	4.435	0.000	2268	2105			
C22	4.825	-0.002	5668	1790			
C24	5.324	0.000	10732	11256			
C25	5.549	0.002	14199	4769			
C26	5.752	0.003	17383	4783			
C28	6.104	0.000	22804	8180			
C32	6.694	-0.003	31340	34792	JP-4 (Tol-C14)	121010	7
C34	6.958	-0.001	33740	8677	BUNKERC (C10-C38)	3517328	416 M
Filter Peak	----						
C36	7.203	-0.006	32178	16433			
C38	7.447	-0.001	29073	8093			
C40	7.722	0.000	19542	5834			
o-terph	4.170	0.002	1505	1077	JET-A (C10-C18)	38228	3
Triacon Surr	6.419	-0.003	614748	364454	JP8 (Tol-C16)	123044	7

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

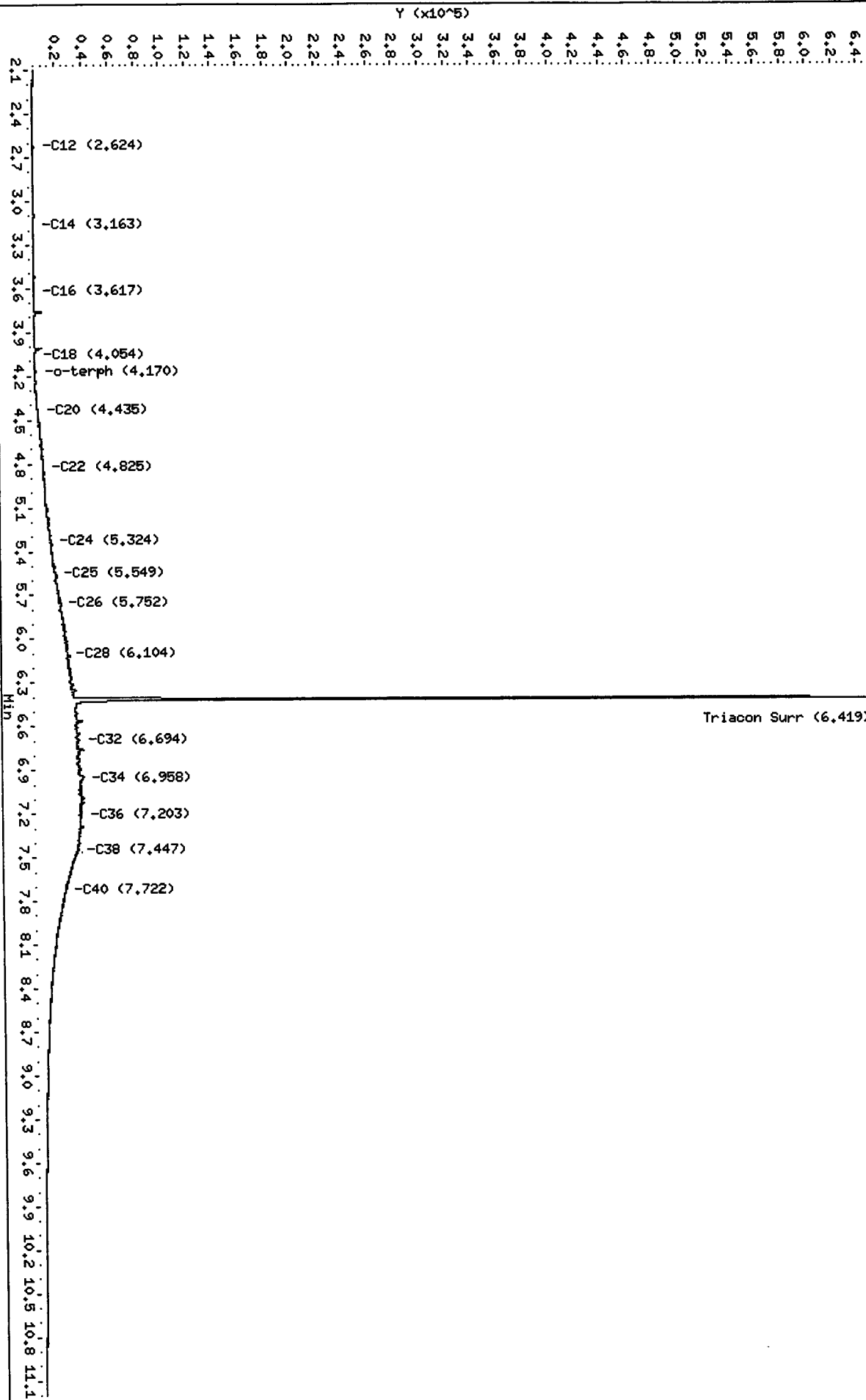
Surrogate	Area	Amount	%Rec
o-Terphenyl	1077	0.1	0.1
Triacontane	364454	20.7	45.9

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

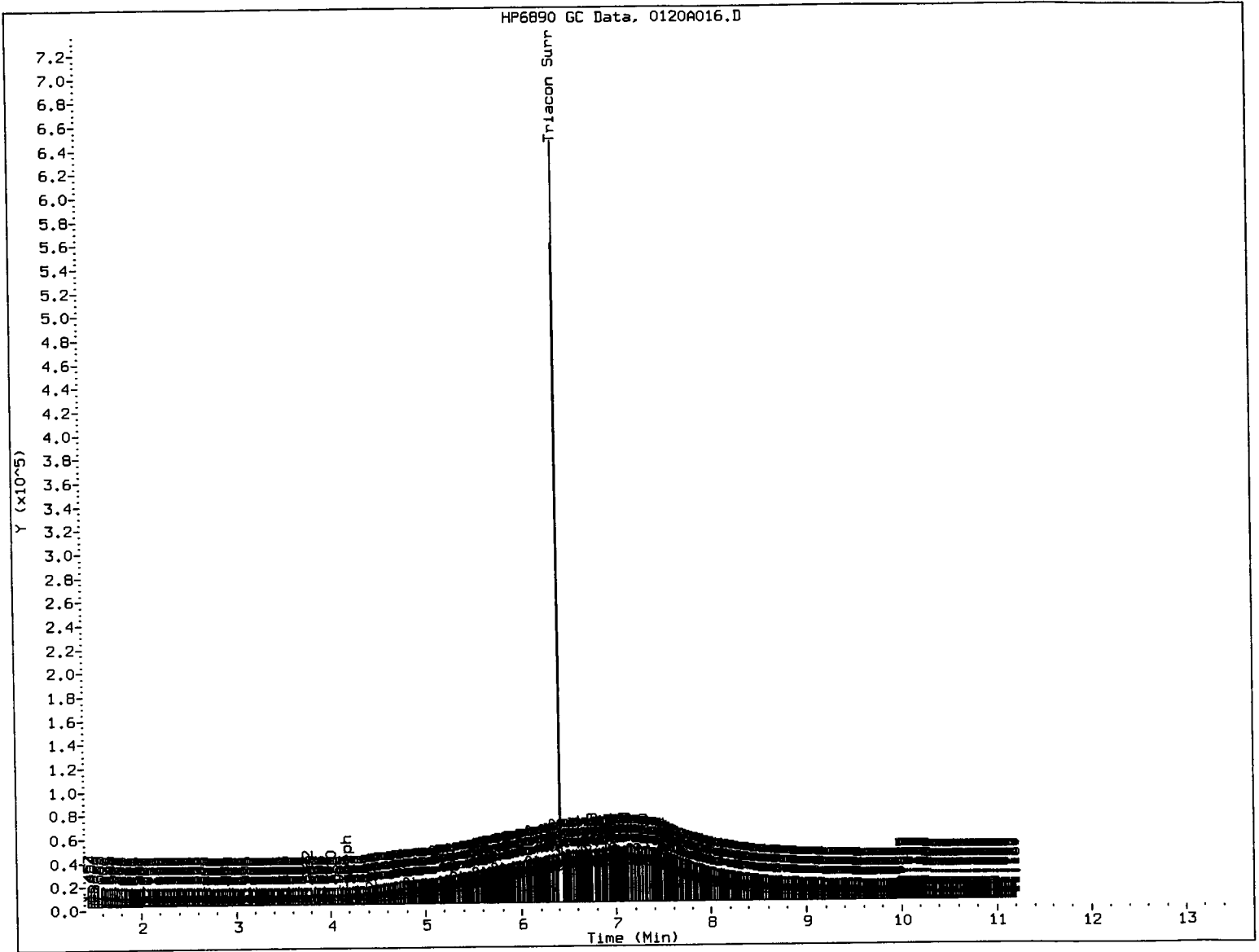
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Date: 20-JAN-2011 19:26
Client ID: MOIL 250
Sample Info: MOIL 250
Column phase: RTX-1

Instrument: fid9.i
Operator: JR
Column diameter: 0.25

/chem2/fid9.i/20110120.b/01200016.D



00001100 : 0110



MANUAL INTEGRATION

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

Analyst: *[Signature]*

Date: 1/31/11

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A017.D
 Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: JR
 Report Date: 01/31/2011

ARI ID: MOIL 500
 Client ID: MOIL 500
 Injection: 20-JAN-2011 19:47
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.323	0.021	43781	53443	GAS (Tol-C12)	132643	6
C8	1.529	0.010	2512	2544	DIESEL (C12-C24)	765586	34
C10	1.986	-0.002	1542	1015	M.OIL (C24-C38)	6320045	476
C12	2.617	-0.006	678	708	AK-102 (C10-C25)	939777	37
C14	3.148	-0.008	142	100	AK-103 (C25-C36)	5282599	622 M
C16	3.626	-0.001	77	13			
C18	4.052	0.003	831	494			
C20	4.431	-0.005	4546	5044			
C22	4.823	-0.004	11920	8256			
C24	5.320	-0.004	21050	17048			
C25	5.545	-0.002	28543	17168			
C26	5.746	-0.003	34993	21041			
C28	6.106	0.002	46559	26544			
C32	6.694	-0.003	64675	67176	JP-4 (Tol-C14)	139331	8
C34	6.964	0.005	69256	121592	BUNKERC (C10-C38)	7106881	840 M
Filter Peak	----						
C36	7.205	-0.004	65634	19550			
C38	7.447	-0.002	58235	26479			
C40	7.725	0.002	37847	15702			
o-terph	4.168	0.000	2027	1735	JET-A (C10-C18)	49436	4
Triacon Surr	6.424	0.002	1065133	748192	JP8 (Tol-C16)	141822	8

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1735	0.1	0.2
Triacontane	748192	42.4	94.3

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.1/20110120.b/01204017.D

Date: 20-JAN-2011 19:47

Client ID: MDIL 500

Sample Info: MDIL 500

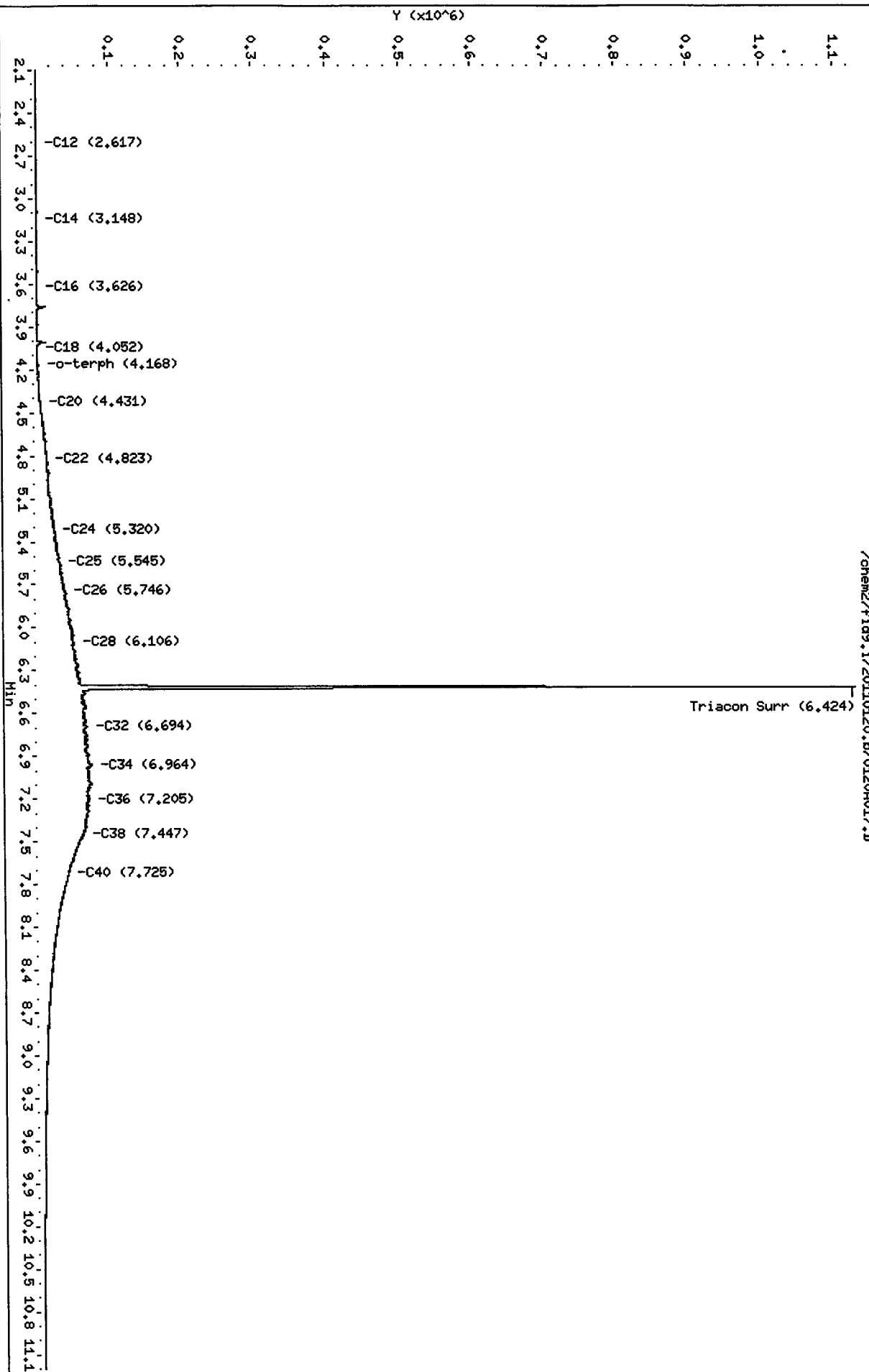
Column phase: RTX-1

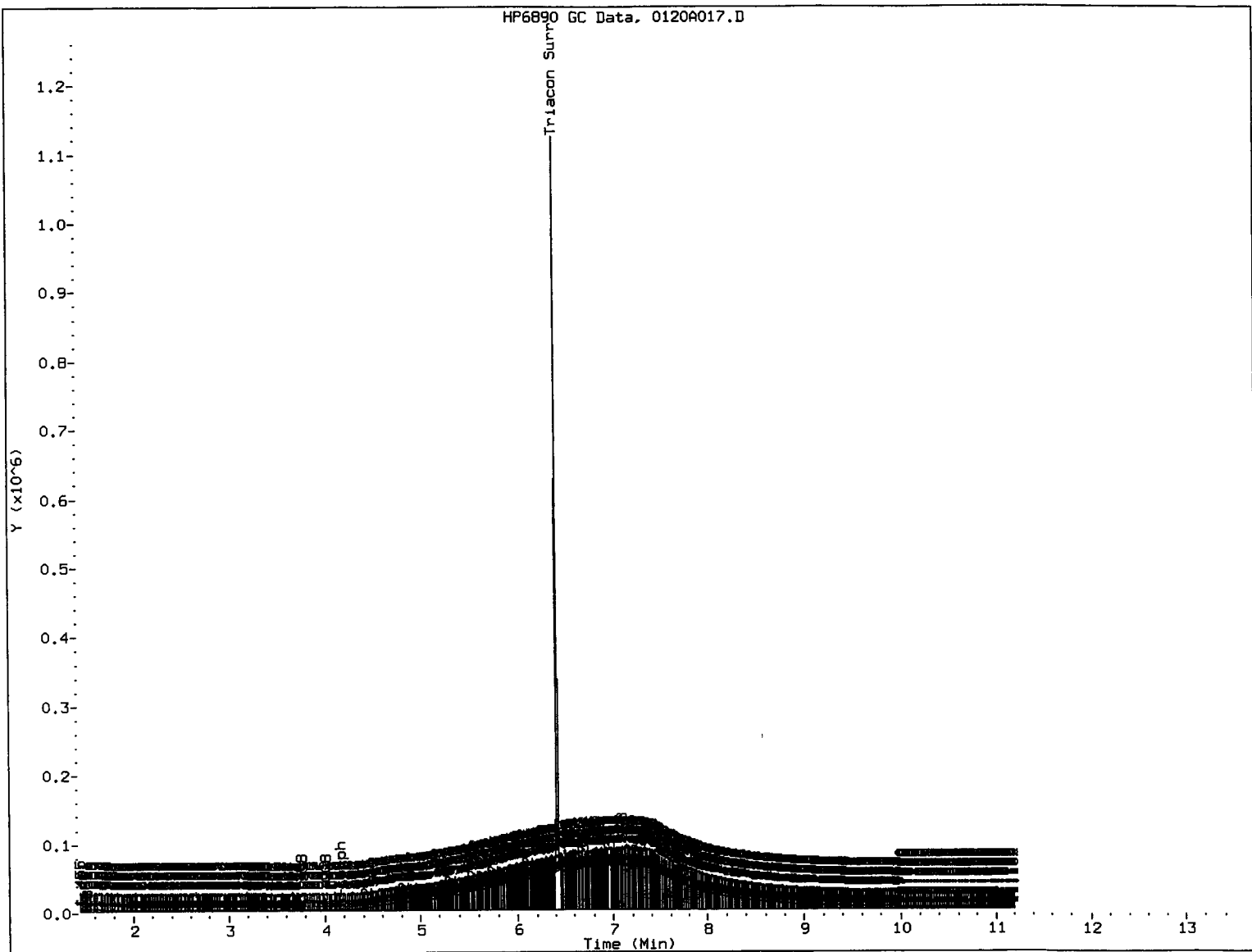
Instrument: fid9.1

Operator: JR

Column diameter: 0.25

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MANUAL INTEGRATION

- 0
1. Baseline correction
 2. Poor chromatography
 3. Peak not found
 4. Totals calculation
 5. Other _____

Analyst: *Jm*

Date: 1/31/11

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A018.D
Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
Instrument: fid9.i
Operator: JR
Report Date: 01/31/2011

ARI ID: MOIL 1000
Client ID: MOIL 1000
Injection: 20-JAN-2011 20:08
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.320	0.017	81843	97285	GAS (Tol-C12)	203748	10
C8	1.512	-0.007	3230	2286	DIESEL (C12-C24)	1518852	67
C10	1.988	0.000	2360	1715	M.OIL (C24-C38)	13320247	1004
C12	2.631	0.008	888	1273	AK-102 (C10-C25)	1901920	75
C14	3.147	-0.009	228	186	AK-103 (C25-C36)	11226532	1321 M
C16	3.633	0.006	484	380			
C18	4.052	0.002	1613	1006			
C20	4.436	0.000	8959	3409			
C22	4.828	0.001	23167	5519			
C24	5.329	0.004	43630	18705			
C25	5.550	0.002	58165	21998			
C26	5.746	-0.003	70440	20651			
C28	6.104	0.000	96699	66092			
C32	6.696	0.000	139289	146808	JP-4 (Tol-C14)	213446	13
C34	6.965	0.006	148583	95849	BUNKERC (C10-C38)	14867691	1757 M
Filter Peak	----						
C36	7.209	0.000	140688	112362			
C38	7.456	0.007	118466	87213			
C40	7.719	-0.004	80471	71825			
o-terph	4.169	0.000	2612	2816	JET-A (C10-C18)	78477	6
Triacon Surr	6.435	0.013	1715980	1612172	JP8 (Tol-C16)	216255	12

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	2816	0.1	0.3
Triacontane	1612172	91.5	203.3

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110120.b/01200018.D

Date: 20-JAN-2011 20:08

Client ID: HOIL 1000

Sample Info: HOIL 1000

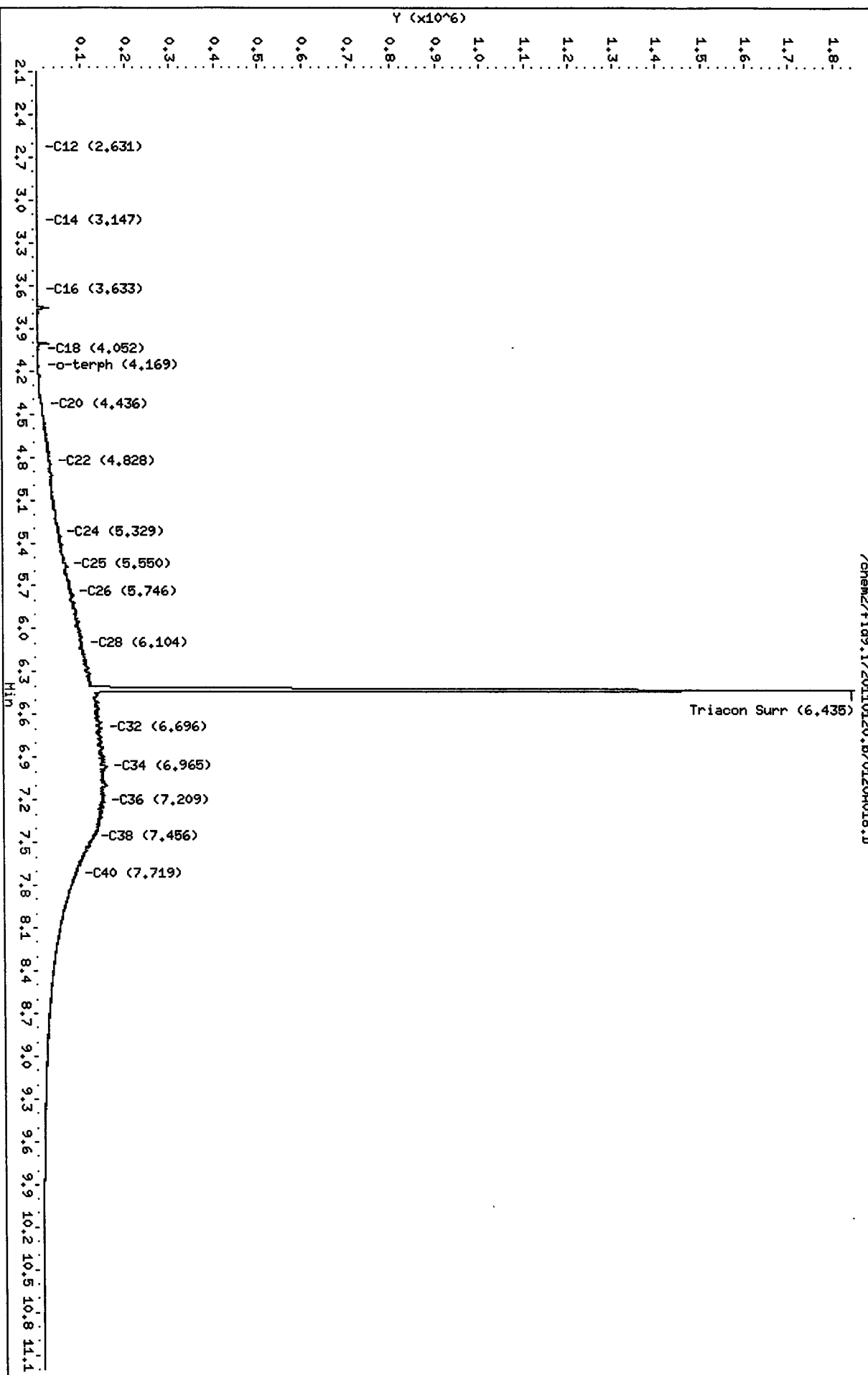
Column Phase: RTX-1

Instrument: fid9.i

Operator: JR

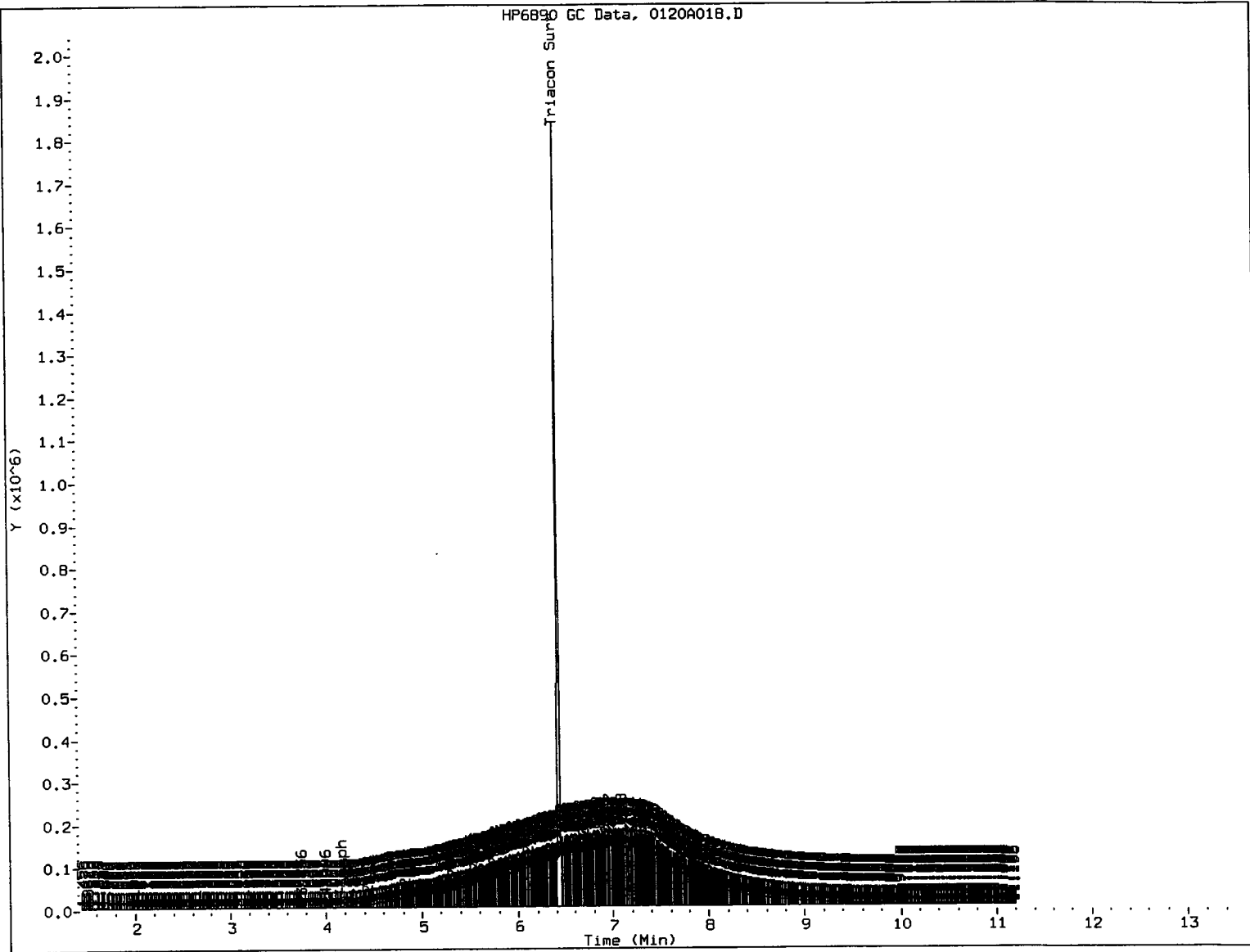
Column diameter: 0.25

/chem2/fid9.i/20110120.b/01200018.D



10
11
12
13
14
15

HP6890 GC Data, 0120A01B.D



MANUAL INTEGRATION

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

Analyst: *[Signature]*

Date: *1/31/11*

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A019.D
 Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: JR
 Report Date: 01/31/2011

ARI ID: MOIL 2500
 Client ID: MOIL 2500
 Injection: 20-JAN-2011 20:30
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.322	0.019	181583	186696	GAS (Tol-C12)	263341	13
C8	1.515	-0.004	2499	4083	DIESEL (C12-C24)	3680611	162
C10	1.988	0.000	3206	3587	M.OIL (C24-C38)	34819034	2625
C12	2.626	0.004	1670	1694	AK-102 (C10-C25)	4557026	179
C14	3.165	0.009	1498	1077	AK-103 (C25-C36)	29454729	3466 M
C16	3.631	0.005	1192	1020			
C18	4.051	0.002	3711	2646			
C20	4.436	0.000	21315	10282			
C22	4.828	0.001	57158	58841			
C24	5.327	0.003	101911	38344			
C25	5.549	0.001	142178	140332			
C26	5.747	-0.002	177672	119296			
C28	6.101	-0.002	241046	47751			
C32	6.693	-0.003	352576	179610	JP-4 (Tol-C14)	273996	17
C34	6.956	-0.003	371047	123726	BUNKERC (C10-C38)	38519660	4553 M
Filter Peak	----						
C36	7.215	0.006	363055	255103			
C38	7.446	-0.002	301713	113104			
C40	7.723	0.000	184864	69317			
o-terph	4.167	-0.002	4283	4343	JET-A (C10-C18)	126434	9
Triacon Surr	6.459	0.037	3154654	4283818	JP8 (Tol-C16)	279224	16

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	4343	0.2	0.5
Triacontane	4283818	243.0	540.1

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110120.b/01200019.D

Date: 20-JAN-2011 20:30

Client ID: HOIL 2500

Sample Info: HOIL 2500

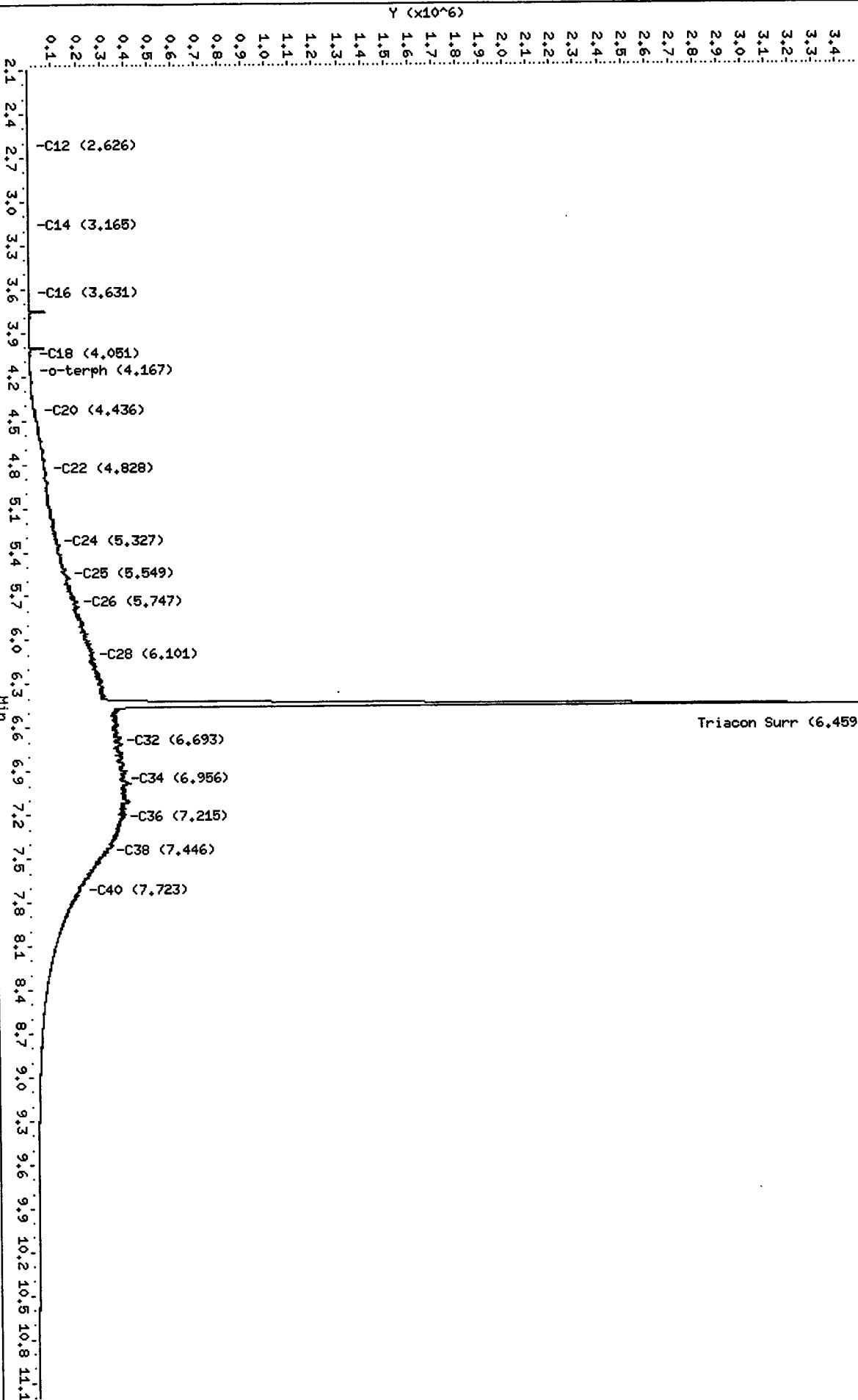
Column phase: RTX-1

Instrument: fid9.i

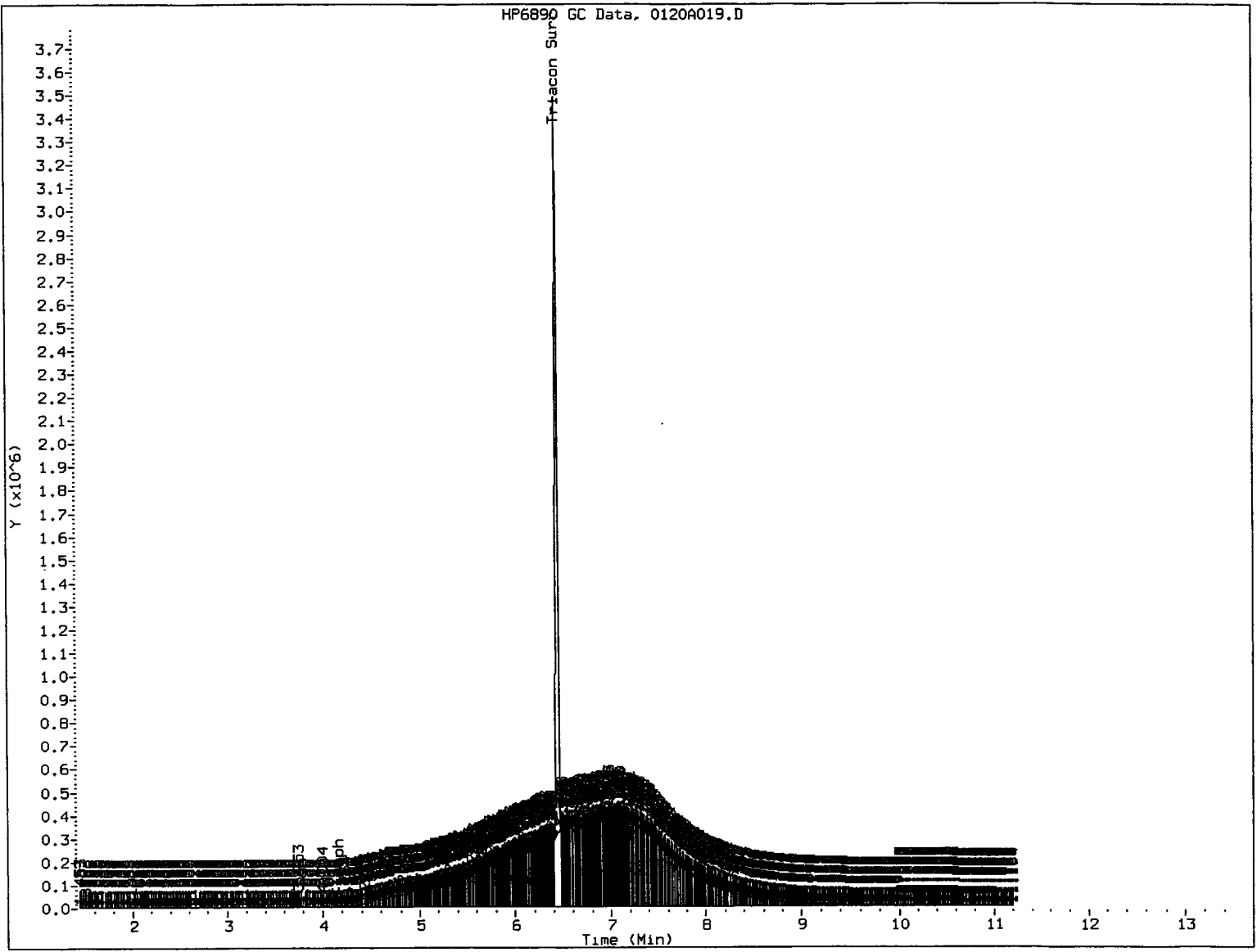
Operator: JR

Column diameter: 0.25

Page 1



00110120



MANUAL INTEGRATION

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

Analyst: *[Signature]* Date: *1/31/11*

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A020.D
 Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: JR
 Report Date: 01/31/2011

ARI ID: MOIL 5000
 Client ID: MOIL 5000
 Injection: 20-JAN-2011 20:51
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.324	0.021	384362	214781	GAS (Tol-C12)	307819	15
C8	1.529	0.010	2486	2344	DIESEL (C12-C24)	8245277	364
C10	1.985	-0.003	8171	4428	M.OIL (C24-C38)	79174165	5969
C12	2.625	0.002	5015	2946	AK-102 (C10-C25)	10265591	402
C14	3.162	0.006	3723	2076	AK-103 (C25-C36)	68553822	8067 M
C16	3.629	0.003	2606	1651			
C18	4.051	0.001	7928	5724			
C20	4.438	0.003	47245	18359			
C22	4.831	0.004	128308	39842			
C24	5.322	-0.002	241324	137531			
C25	5.550	0.002	308754	126492			
C26	5.743	-0.006	457198	467304			
C28	6.106	0.003	566412	190357			
C32	6.698	0.001	855276	348917	JP-4 (Tol-C14)	325031	20
C34	6.958	-0.001	881639	293712	BUNKERC (C10-C38)	87442633	10336 M
Filter Peak	----						
C36	7.214	0.005	801988	376629			
C38	7.452	0.004	563279	502147			
C40	7.722	-0.001	241022	143323			
o-terph	4.166	-0.003	7763	9588	JET-A (C10-C18)	251715	18
Triacon Surr	6.496	0.075	4155743	9818370	JP8 (Tol-C16)	335455	19

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	9588	0.4	1.0
Triacontane	9818370	557.0	1237.8

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110120.b/01209020.D

Date: 20-JAN-2011 20:51

Client ID: HOIL 5000

Sample Info: HOIL 5000

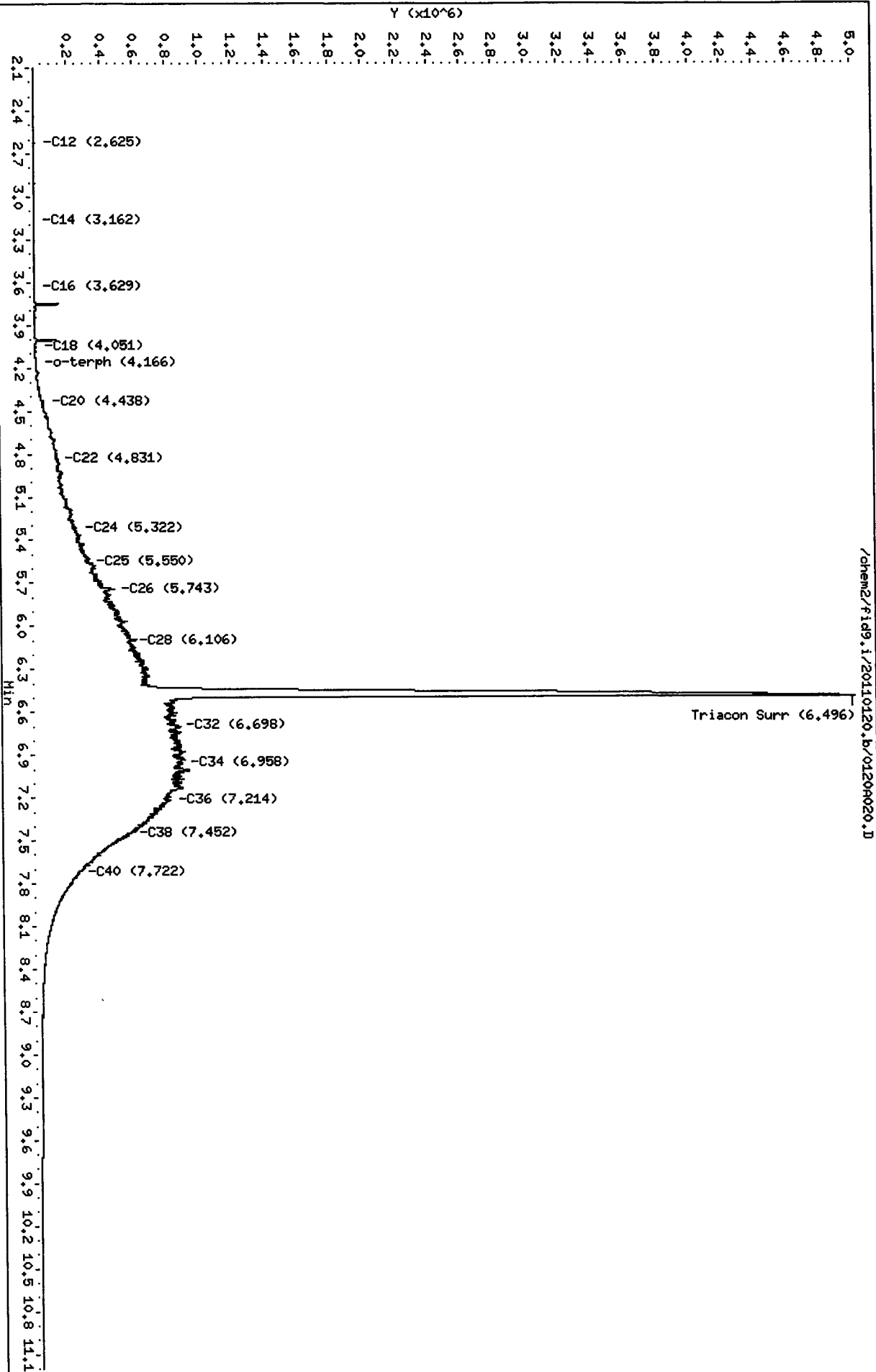
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Instrument: fid9.i

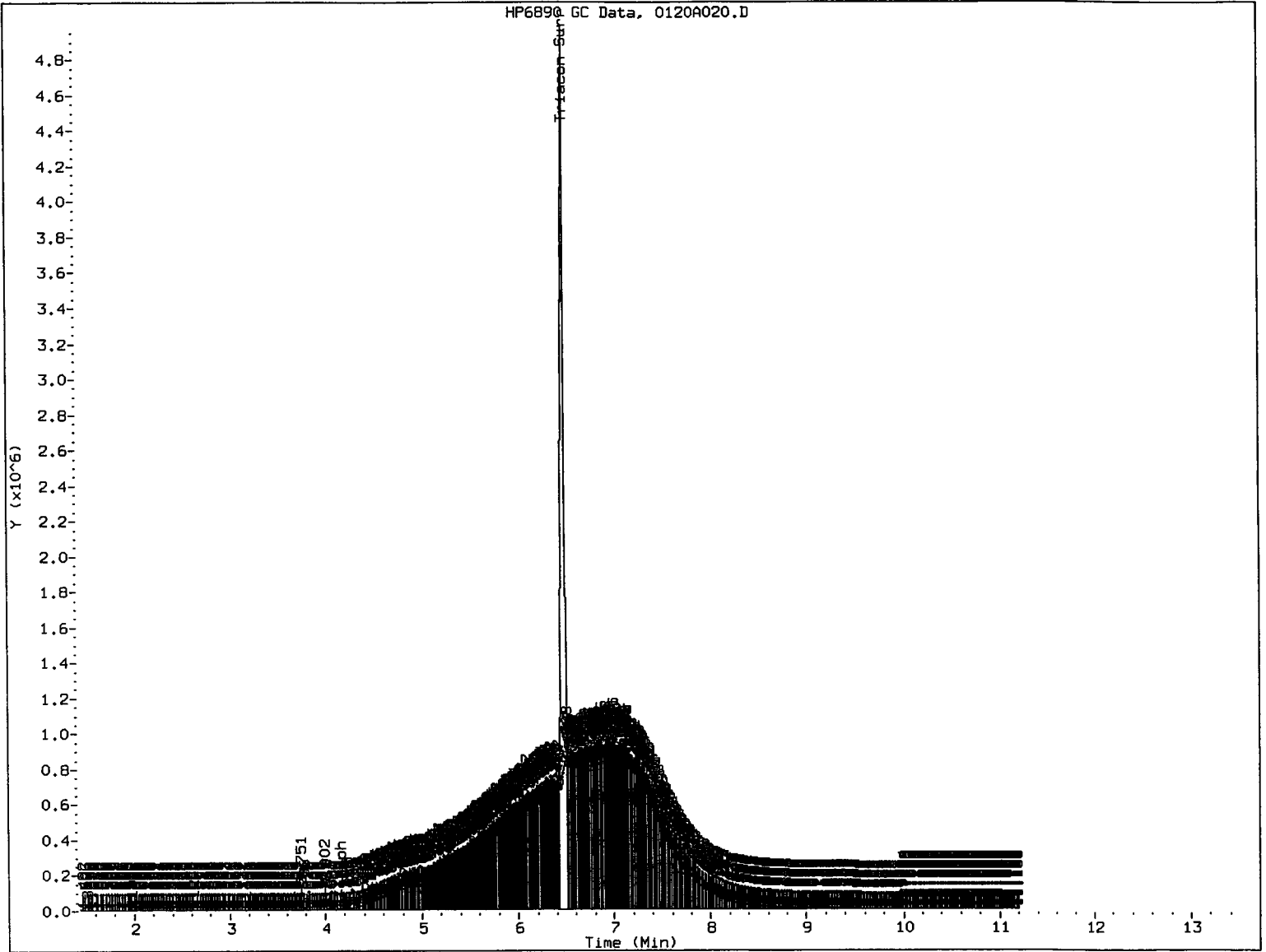
Operator: JR

Column diameter: 0.25

Page 1



20110120



MANUAL INTEGRATION

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

Analyst: *[Signature]*

Date: *4/3/11*

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110120.b/0120A021.D
 Method: /chem2/fid9.i/20110120.b/ftphfid9a.m
 Instrument: fid9.i
 Operator: JR
 Report Date: 01/31/2011

ARI ID: MOIL ICV
 Client ID:
 Injection: 20-JAN-2011 21:12
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.324	0.022	44320	50117	GAS (Tol-C12)	136658	7
C8	1.533	0.014	2616	2149	DIESEL (C12-C24)	538793	24
C10	1.989	0.001	1562	1745	M.OIL (C24-C38)	5432551	410 <i>82%</i>
C12	2.609	-0.013	390	355	AK-102 (C10-C25)	689107	27
C14	3.156	-0.001	155	99	AK-103 (C25-C36)	4380704	515 M
C16	3.626	-0.001	82	12			
C18	4.055	0.006	664	630			
C20	4.438	0.003	3115	3440			
C22	4.827	-0.001	8284	2608			
C24	5.325	0.001	15523	16382			
C25	5.549	0.001	20595	10950			
C26	5.747	-0.002	24839	4923			
C28	6.101	-0.003	34160	7461			
C32	6.696	-0.001	53883	31547	JP-4 (Tol-C14)	142919	9
C34	6.960	0.002	64809	30650	BUNKERC (C10-C38)	5992347	708 M
Filter Peak	----						
C36	7.210	0.001	67841	12118			
C38	7.448	0.000	64571	17929			
C40	7.725	0.002	44664	18424			
o-terph	4.171	0.003	1796	1471	JET-A (C10-C18)	46651	3
Triacon Surr	6.416	-0.005	466501	267769	JP8 (Tol-C16)	144649	8

M Indicates manual integration within range.

Range Times: NW Diesel(2.623 - 5.324) AK102(1.99 - 5.55) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.45) AK103(5.55 - 7.21) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1471	0.1	0.2
Triacontane	267769	15.2	33.8

Low but Triacontane I.C.V. is not required.

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110120.b/01200021.D

Date: 20-JAN-2011 21:12

Client ID:

Sample Info: M01L ICV

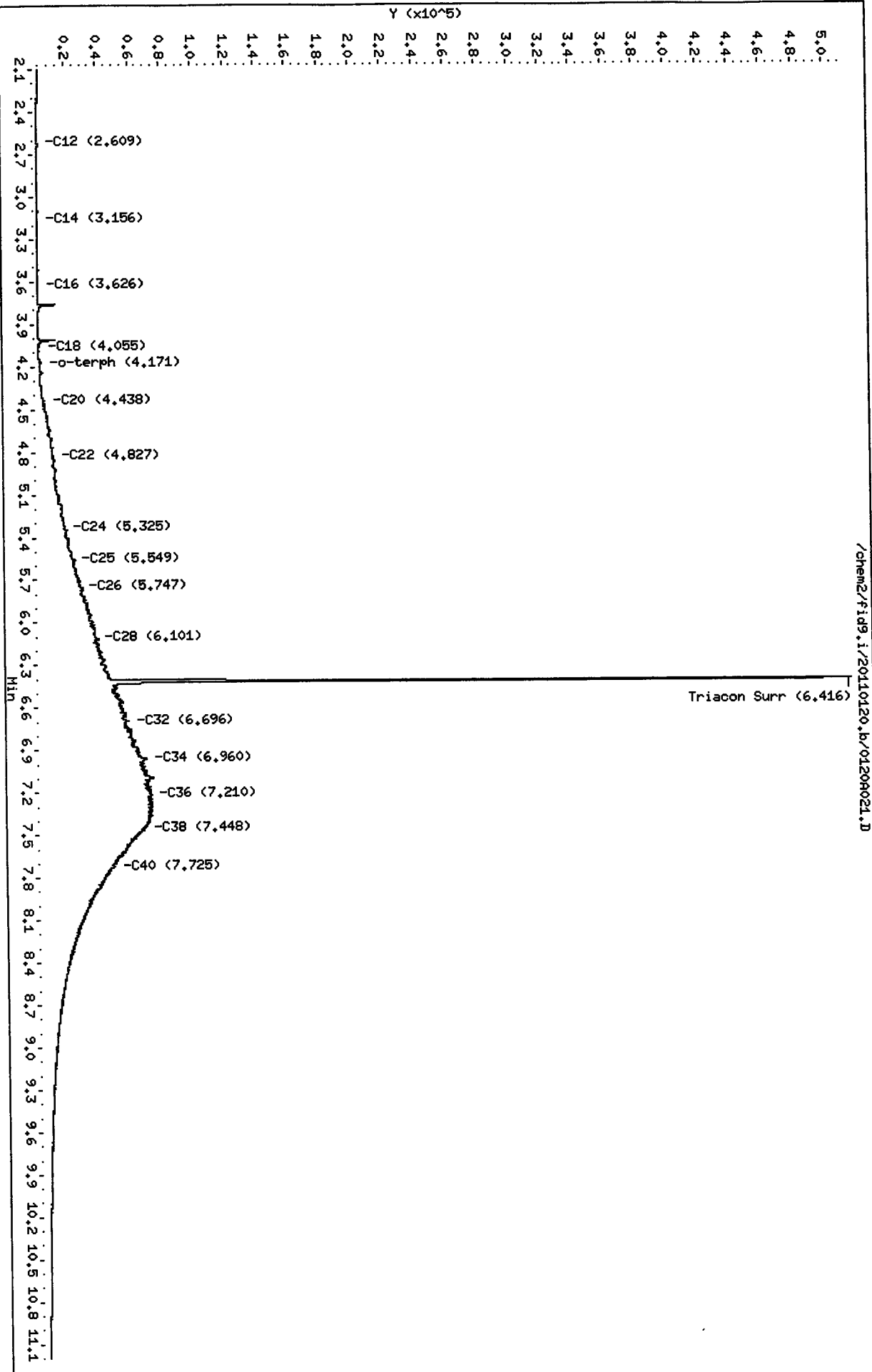
Column phase: RTX-1

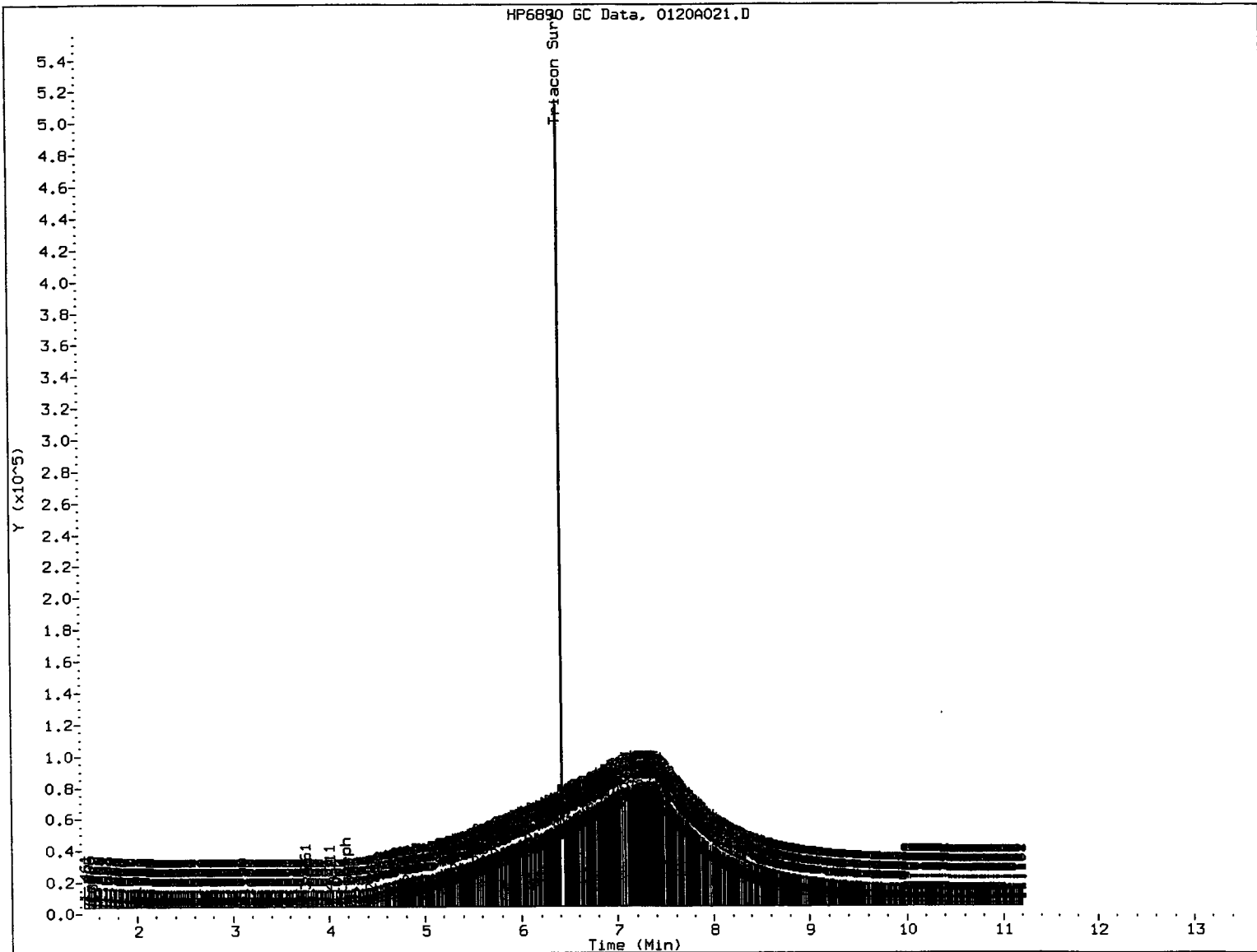
Instrument: fid9.i

Operator: JR

Column diameter: 0.25

Page 1





MANUAL INTEGRATION

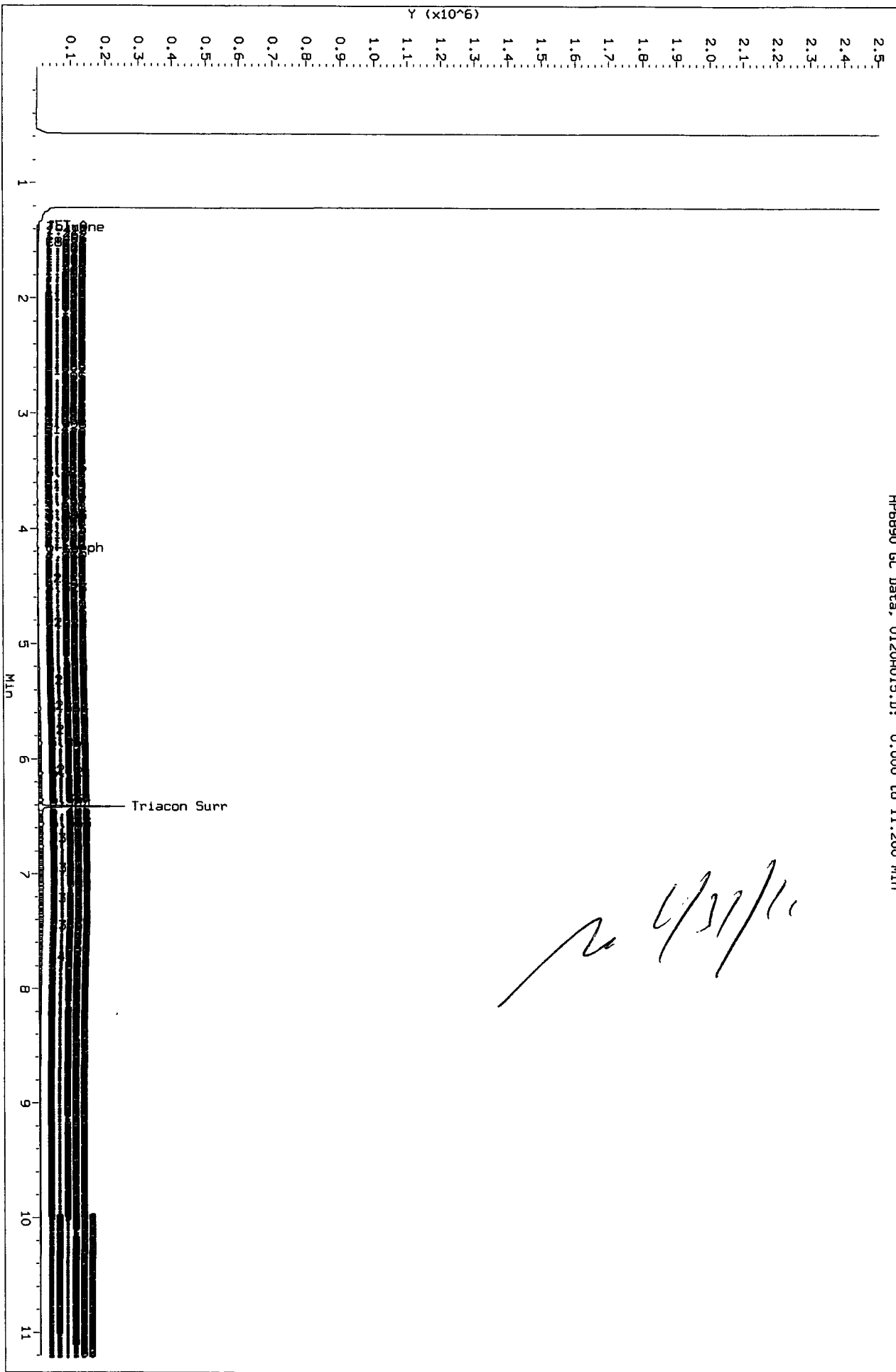
- 1. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation
- 5. Other _____

Analyst: *[Signature]*

Date: 1/27/11

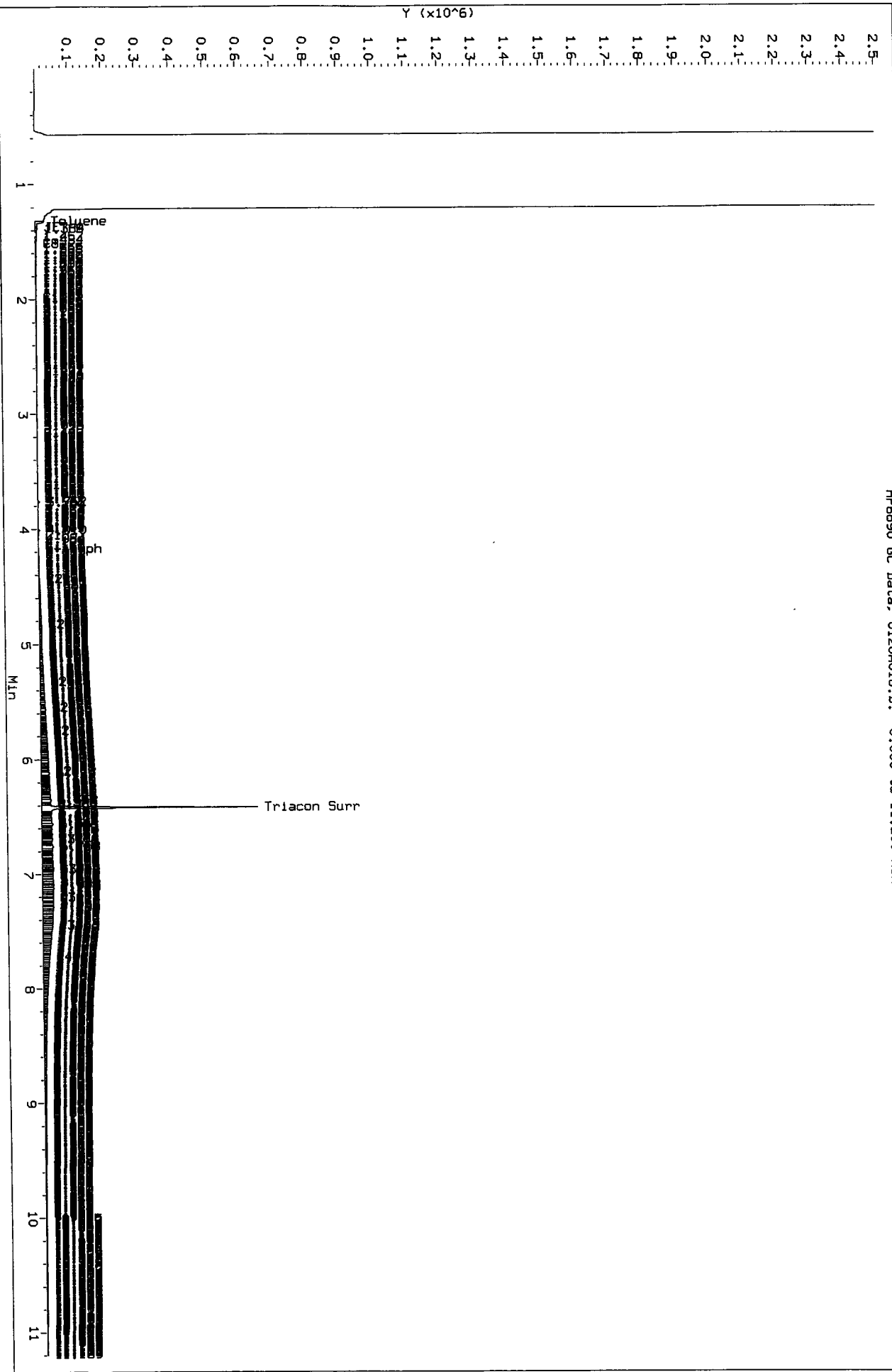
Data File: /chem2/fid9.1/20110120.b/01200015.D
Injection Date: 20-JAN-2011 19:04
Instrument: fid9.1
Client Sample ID: MOIL 100

HP6890 GC Data, 01200015.D: 0.000 to 11.200 Min



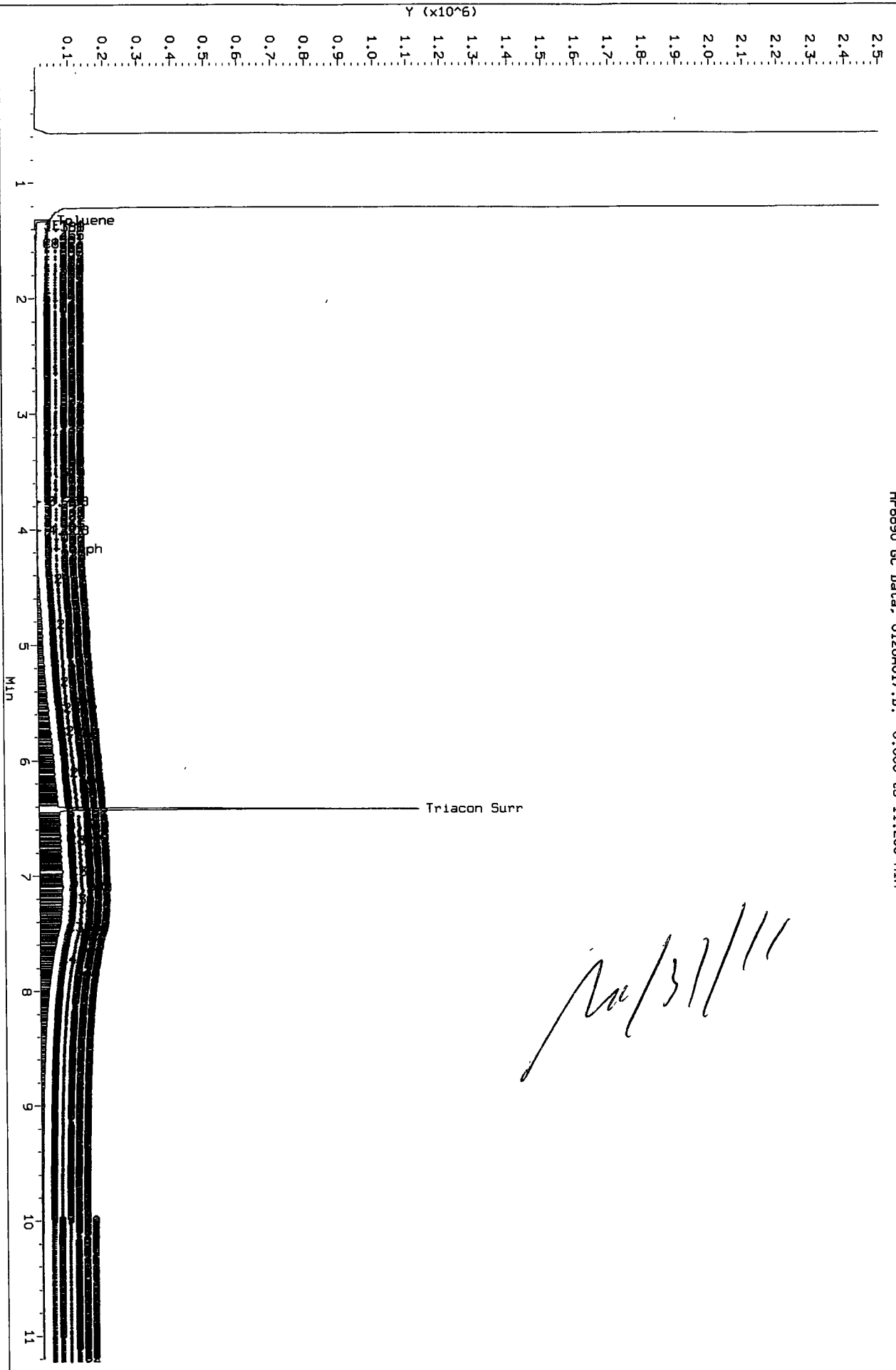
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Injection Date: 20-JAN-2011 19:26
Instrument: fid9.1
Client Sample ID: MOIL 250

HP6890 GC Data, 01209016.D: 0.000 to 11.200 Min



Data File: /chem2/fid9.1/20110120.b/01209017.D
Injection Date: 20-JAN-2011 19:47
Instrument: fid9.1
Client Sample ID: MJIL 500

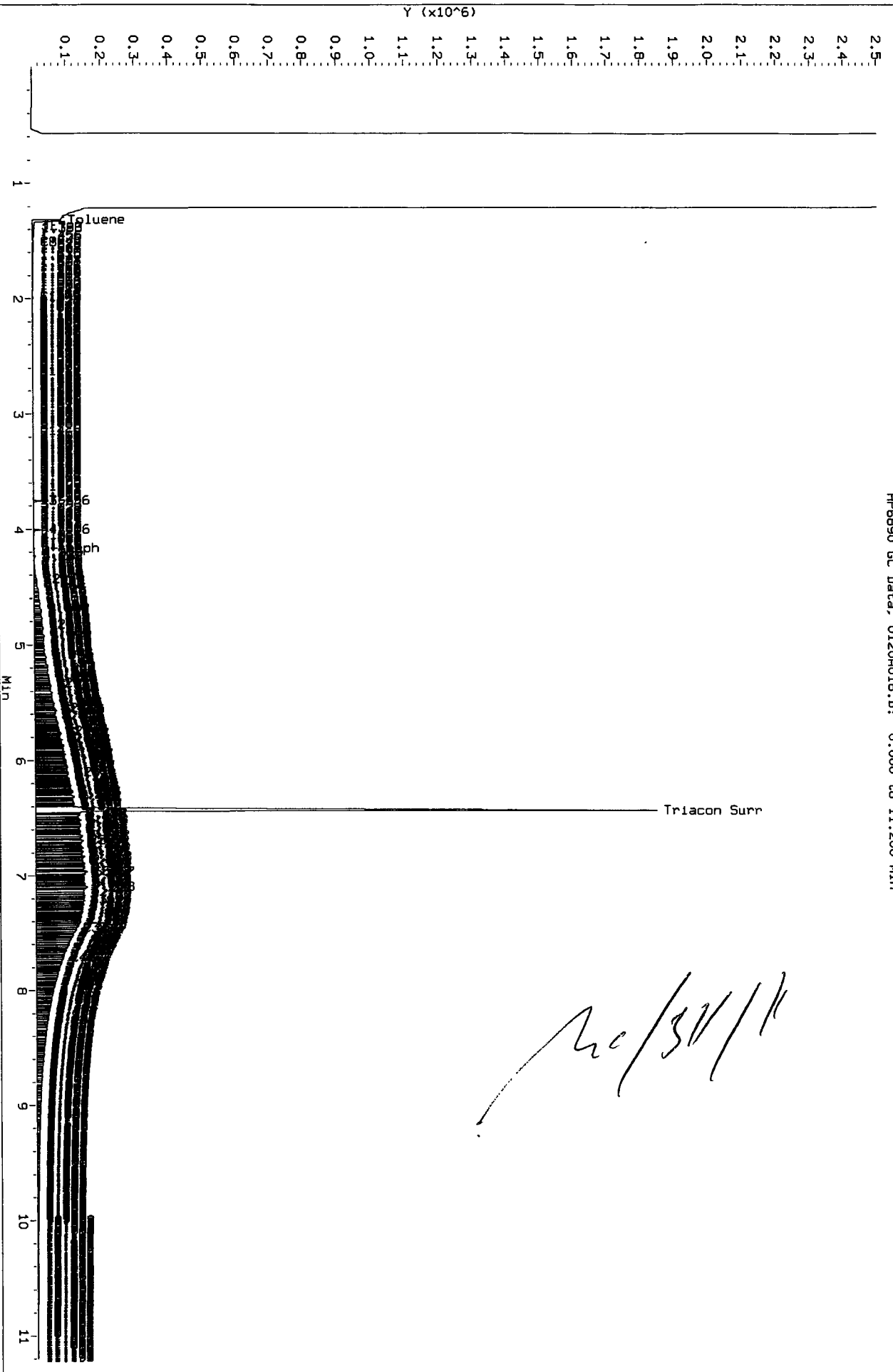
HP6890 GC Data, 01209017.D: 0.000 to 11.200 Min



Handwritten signature
2013/1/11

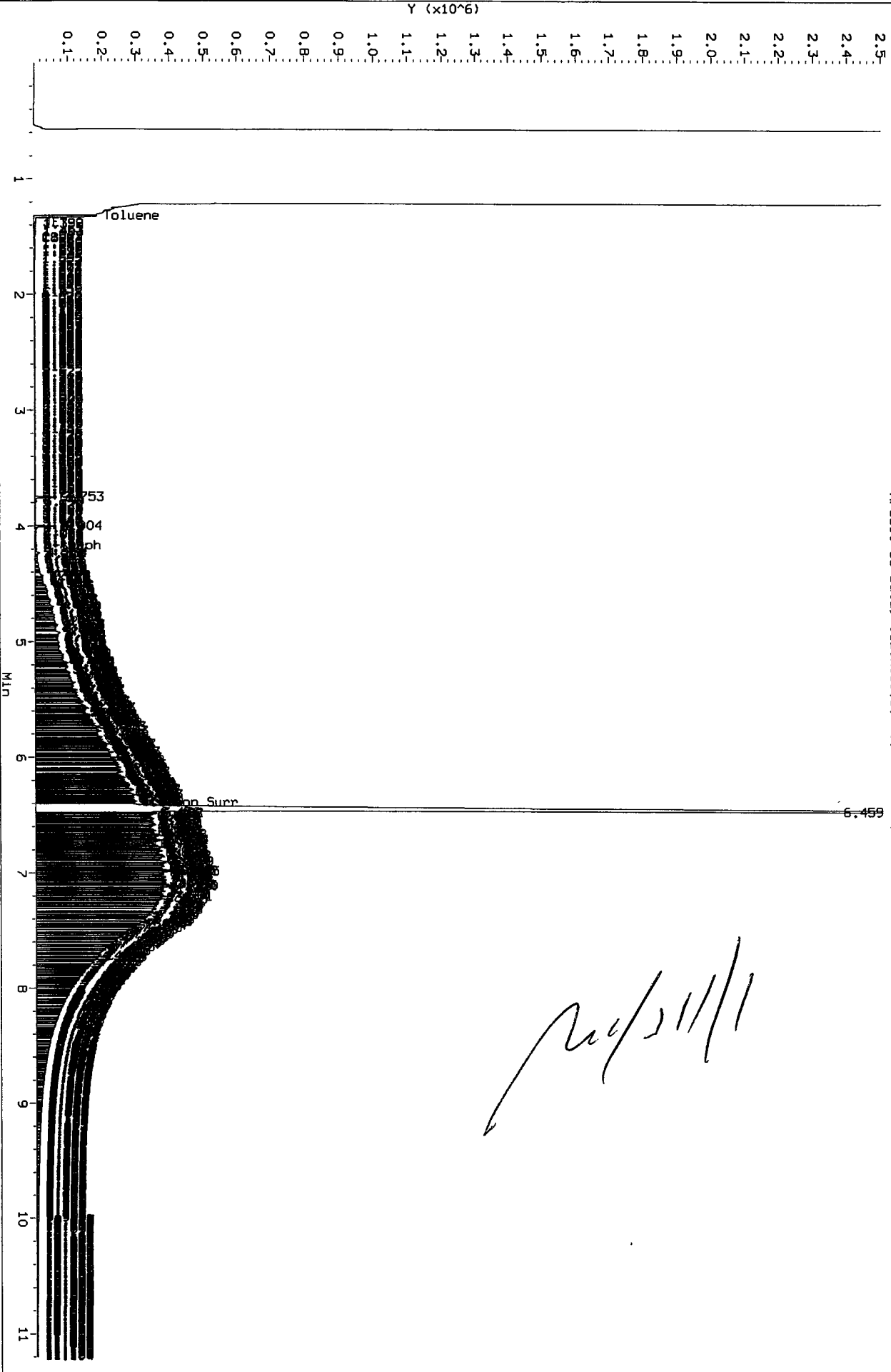
Data File: /chem2/fid9.1/20110120.b/0120A01B.D
Injection Date: 20-JAN-2011 20:08
Instrument: fid9.i
Client Sample ID: M01L 1000

HP6890 GC Data, 0120A01B.D: 0.000 to 11.200 Min

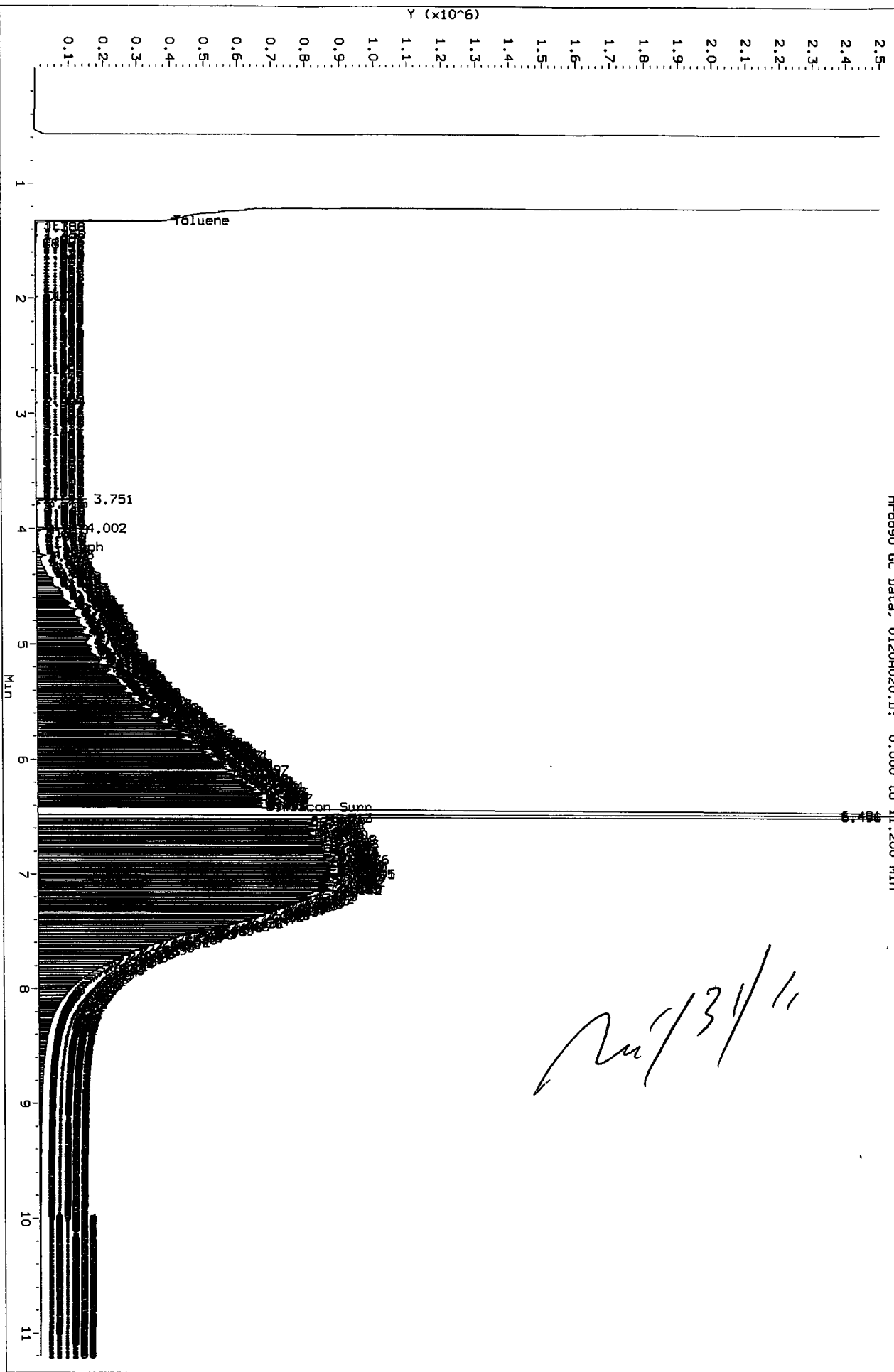


Data File: /chem2/f109.1/20110120.b/012006019.D
Injection Date: 20-JAN-2011 20:30
Instrument: f109.1
Client Sample ID: M01L 2500

HP6890 GC Data, 012006019.D: 0.000 to 11.200 MIN



Data File: /chem2/fid9.1/20110120.b/01200020.D
Injection Date: 20-JAN-2011 20:51
Instrument: fid9.1
Client Sample ID: MOIL 5000



HP6890 GC Data, 01200020.D: 0.000 to 11.200 Min

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

ARI Job ID: SF26, SF50, SF76

GC Analyst Notes / Corrective Action Log

ARI Project ID: SF26, SF50, SF76 Client ID: Floyd-Snyder - LLA

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, Moil, Steph.

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: 1/20/11 Analysis Start: 1/25/11

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

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

SF76 H is weathered. m, 1/27/11

Additional Details on Reverse: Yes (No)

Analyst: [Signature] Date: 1/27/11

Reviewer: [Signature] Date: 1/28/11

Analytical Resources Inc.: Organics Instrument Log
FID-9 Agilent 6850 - Serial No.: US10404004

Date: 1/25/11 Analysis: NWTRFD Analyst: ms
 GC Program: TPH Column No: 977444 Column Type: PTX01
 Instrument Tune (.U or .CT.): _____ EM Voltage: _____
 Calibration File: _____ Curve Date: 1/20/11

IS/SS	Ical/Ccal	LCS/ICV
/	PTX01-1	/
/	PTX1-2	/
/	PTX2-3	/
/	AST-2	/

Inject	Date/Time	Filename	DF	LabID
1	25-JAN-2011 13:35	0125A001.D	1	RINSE
2	25-JAN-2011 13:56	0125A002.D	1	RT
3	25-JAN-2011 14:17	0125A003.D	1	IB
4	25-JAN-2011 14:39	0125A004.D	1	DIESEL#1
5	25-JAN-2011 15:01	0125A005.D	1	MOIL#1
6	25-JAN-2011 15:22	0125A006.D	1	SF26MBW1
7	25-JAN-2011 15:44	0125A007.D	1	SF26LCSW1
8	25-JAN-2011 16:06	0125A008.D	1	SF26QLS
9	25-JAN-2011 16:27	0125A009.D	1	SF26A
10	25-JAN-2011 16:49	0125A010.D	1	SF26B
11	25-JAN-2011 17:11	0125A011.D	1	SF26C
12	25-JAN-2011 17:32	0125A012.D	1	SF26D
13	25-JAN-2011 17:54	0125A013.D	1	DIESEL#2
14	25-JAN-2011 18:16	0125A014.D	1	MOIL#2
15	25-JAN-2011 18:37	0125A015.D	1	SF50A
16	25-JAN-2011 18:59	0125A016.D	1	SF50AMS
17	25-JAN-2011 19:20	0125A017.D	1	SF50AMSD
18	25-JAN-2011 19:42	0125A018.D	1	SF50B
19	25-JAN-2011 20:03	0125A019.D	1	SF50C
20	25-JAN-2011 20:25	0125A020.D	1	SF50D
21	25-JAN-2011 20:46	0125A021.D	1	SF50E
22	25-JAN-2011 21:08	0125A022.D	1	SF50F
23	25-JAN-2011 21:29	0125A023.D	1	DIESEL#3
24	25-JAN-2011 21:50	0125A024.D	1	MOIL#3
25	25-JAN-2011 22:12	0125A025.D	1	SF76A
26	25-JAN-2011 22:33	0125A026.D	1	SF76B
27	25-JAN-2011 22:54	0125A027.D	1	SF76C
28	25-JAN-2011 23:16	0125A028.D	1	SF76D
29	25-JAN-2011 23:37	0125A029.D	1	SF76E
30	25-JAN-2011 23:59	0125A030.D	1	SF76F
31	26-JAN-2011 00:20	0125A031.D	1	SF76G
32	26-JAN-2011 00:41	0125A032.D	1	SF76H
33	26-JAN-2011 01:03	0125A033.D	1	DIESEL#4
34	26-JAN-2011 01:24	0125A034.D	1	MOIL#4

ms

ms 1/27/11

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 - /chem2/fid9.i/20110125.B

ARI Job No.: RINS Method: fthphfid9a.m Instrument: fid9.i Date: 25-JAN-2011

Time	Filename	LabID	ClientID	DF	Manually Integrated Compounds
1335	0125A001.D	RINSE		1	NO MANUAL INTEGRATION
1356	0125A002.D	RT		1	Toluene, C8,
1417	0125A003.D	IB		1	NO MANUAL INTEGRATION
1439	0125A004.D	DIESEL#1		1	o-terph,
1501	0125A005.D	MOIL#1		1	Triacon Surr,
1522	0125A006.D	SF26MBW1	SF26MBW1	1	NO MANUAL INTEGRATION
1544	0125A007.D	SF26LCSW1	SF26LCSW1	1	o-terph,
1606	0125A008.D	SF26QLS		1	NO MANUAL INTEGRATION
1627	0125A009.D	SF26A	MM11-01191	1	NO MANUAL INTEGRATION
1649	0125A010.D	SF26B	MM10-01191	1	NO MANUAL INTEGRATION
1711	0125A011.D	SF26C	MM07-01191	1	NO MANUAL INTEGRATION
1732	0125A012.D	SF26D	MM14-01191	1	NO MANUAL INTEGRATION
1754	0125A013.D	DIESEL#2		1	o-terph,
1816	0125A014.D	MOIL#2		1	Triacon Surr,
1837	0125A015.D	SF50A	MM13-01201	1	NO MANUAL INTEGRATION
1859	0125A016.D	SF50AMS	MM13-01201	1	o-terph,
1920	0125A017.D	SF50AMSD	MM13-01201	1	o-terph,
1942	0125A018.D	SF50B	MM06-01201	1	NO MANUAL INTEGRATION
2003	0125A019.D	SF50C	MM12-01201	1	NO MANUAL INTEGRATION
2025	0125A020.D	SF50D	MM04-01201	1	NO MANUAL INTEGRATION
2046	0125A021.D	SF50E	MM17-01201	1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem2/fid9.i/20110125.B

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2108	0125A022.D SF50F	MW03-01201	1	NO MANUAL INTEGRATION	
2129	0125A023.D DIESEL#3		1	o-terph,	
2150	0125A024.D MOIL#3		1	Triacon Surr,	
2212	0125A025.D SF76A	MW-15-0121	1	NO MANUAL INTEGRATION	
2233	0125A026.D SF76B	MW-05-0121	1	NO MANUAL INTEGRATION	
2254	0125A027.D SF76C	MW-16-0121	1	NO MANUAL INTEGRATION	
2316	0125A028.D SF76D	MW-02-0121	1	NO MANUAL INTEGRATION	
2337	0125A029.D SF76E	MW-09-0121	1	NO MANUAL INTEGRATION	
2359	0125A030.D SF76F	MW-08-0121	1	NO MANUAL INTEGRATION	
0020	0125A031.D SF76G	MW-01-0121	1	o-terph, Triacon Surr,	
0041	0125A032.D SF76H	MW-01-0121	1	o-terph, Triacon Surr,	
0103	0125A033.D DIESEL#4		1	o-terph,	
0124	0125A034.D MOIL#4		1	Triacon Surr,	

SF 20 : 01210

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A002.D
Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 02/02/2011

ARI ID: RT
Client ID: RT
Injection: 25-JAN-2011 13:56
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.324	0.000	34833	34878	GAS (Tol-C12)	1133278	54 M
C8	1.304	0.000	379801	299107	DIESEL (C12-C24)	2135143	94
C10	1.985	0.000	729178	361238	M.OIL (C24-C38)	2727357	206
C12	2.620	0.000	623602	354243	AK-102 (C10-C25)	2880541	113
C14	3.155	0.000	561585	353040	AK-103 (C25-C36)	2395081	282
C16	3.624	0.000	702429	350127			
C18	4.045	0.000	770202	341413			
C20	4.432	0.000	707803	333560			
C22	4.823	0.000	548653	336230			
C24	5.318	0.000	500507	329251			
C25	5.544	0.000	706945	467695			
C26	5.744	0.000	559036	335834			
C28	6.100	0.000	574816	360171			
C32	6.690	0.000	599614	360556	JP-4 (Tol-C14)	1502349	92 M
C34	6.953	0.000	556115	372206	BUNKERC (C10-C38)	5602625	662
Filter Peak	----						
C36	7.201	0.000	544749	348075			
C38	7.439	0.000	392328	291789			
C40	7.706	0.000	224800	199835			
o-terph	4.165	0.000	1895938	1119812	JET-A (C10-C18)	1817330	132
Triacon Surr	6.419	0.000	1407533	1088259	JP8 (Tol-C16)	1862481	106 M

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1119812	52.3	116.2
Triacontane	1088259	61.7	137.2

MS 2/2/11

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110125.B/0125A002.D

Date: 25-JAN-2011 13:56

Client ID: RT

Sample Info: RT

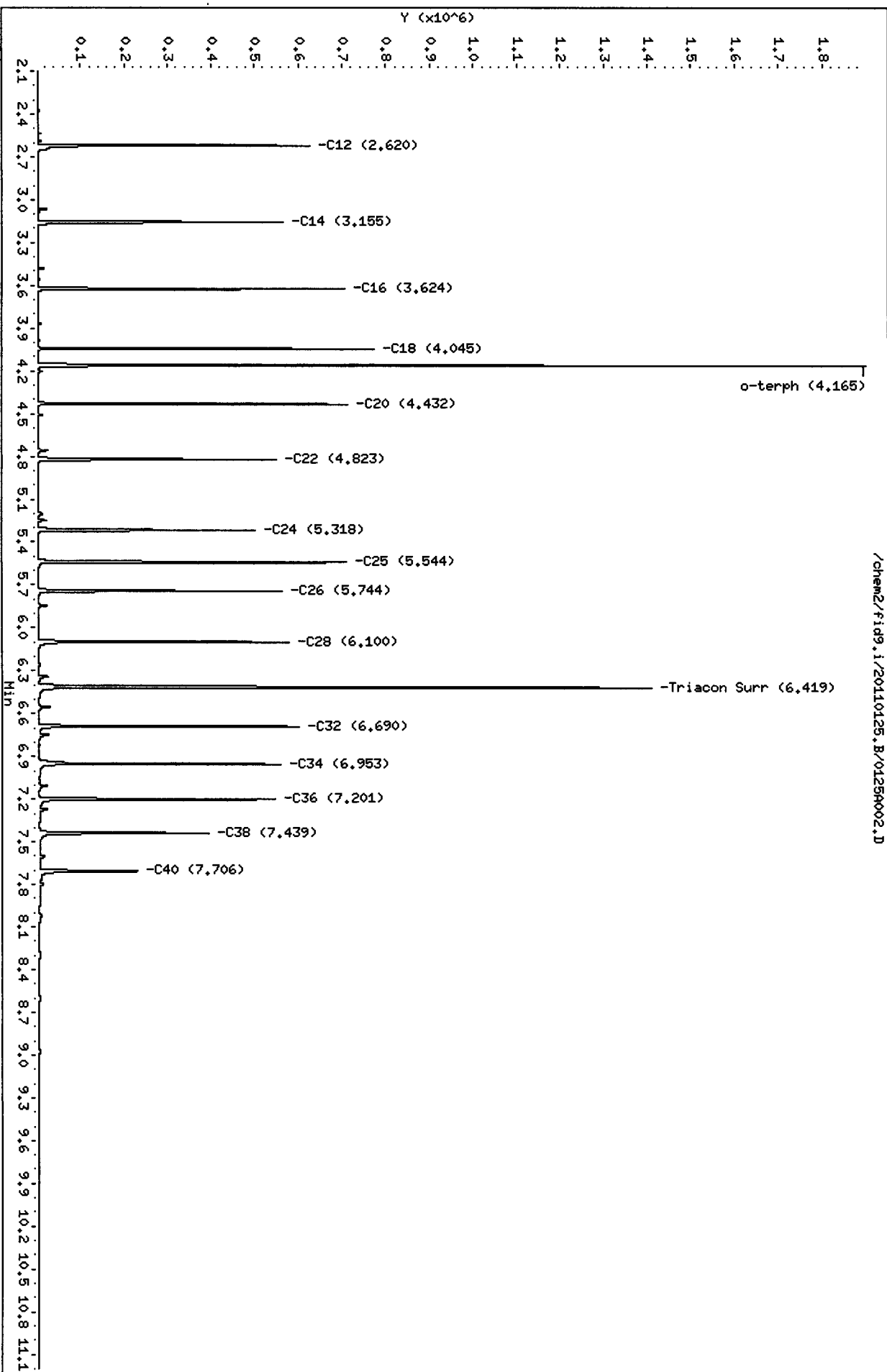
Column phase: RTX-1

Instrument: fid9.i

Operator: HS

Column diameter: 0.25

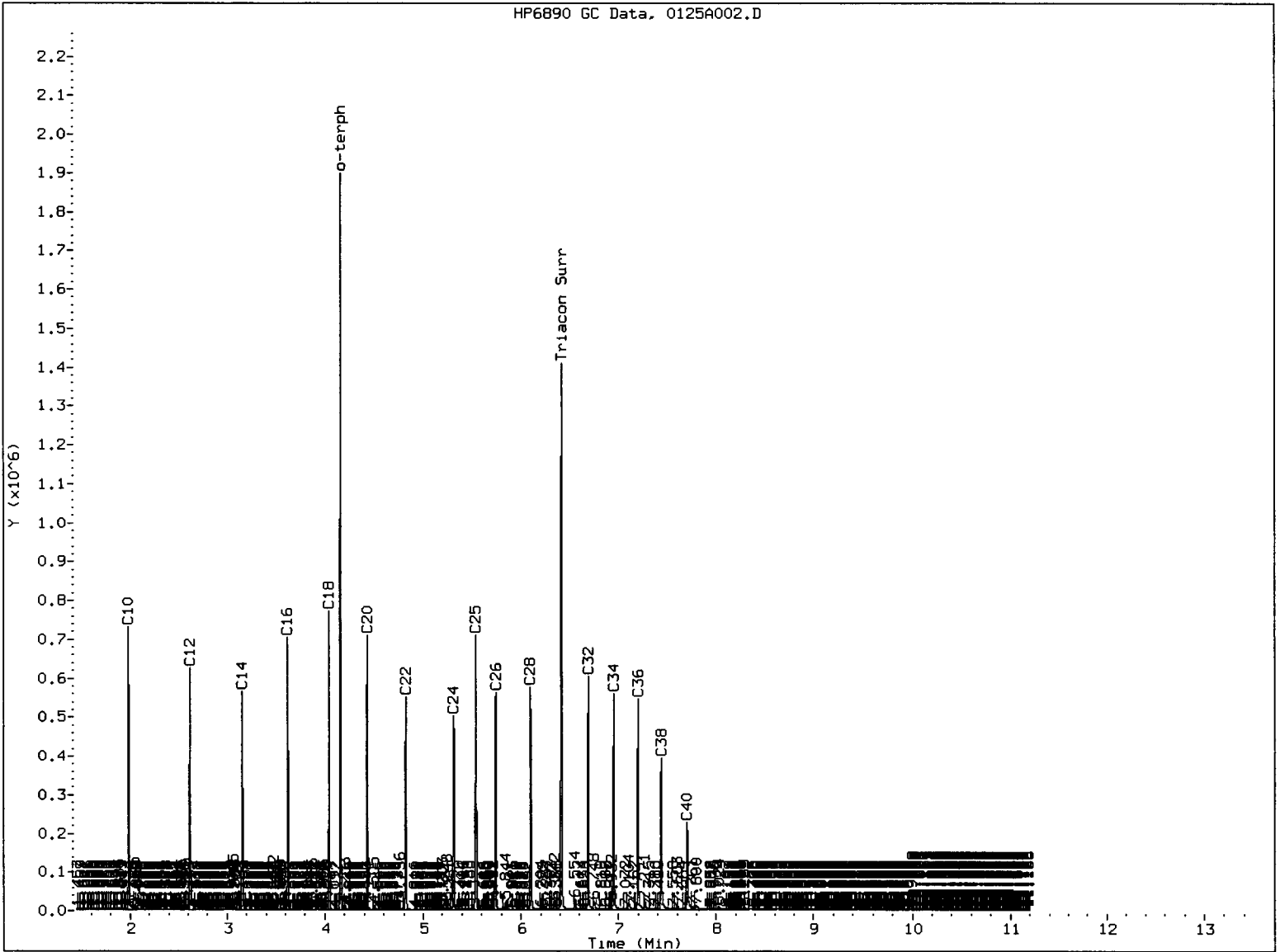
Page 1



/chem2/fid9.i/20110125.B/0125A002.D

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HP6890 GC Data, 0125A002.D



MANUAL INTEGRATION

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

Analyst: *[Signature]* Date: *2/2/14*

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A003.D
Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 02/02/2011

ARI ID: IB
Client ID: IB
Injection: 25-JAN-2011 14:17
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.324	-0.001	71413	68005	GAS (Tol-C12)	140619	7
C8	1.387	0.082	4213	3421	DIESEL (C12-C24)	37511	2
C10	1.990	0.004	1859	2762	M.OIL (C24-C38)	74571	6
C12	2.616	-0.005	467	483	AK-102 (C10-C25)	63316	2
C14	3.150	-0.005	285	205	AK-103 (C25-C36)	56332	7
C16	3.612	-0.012	192	254			
C18	4.043	-0.002	198	167			
C20	4.440	0.007	134	153			
C22	4.823	0.000	175	84			
C24	5.312	-0.007	135	120			
C25	5.545	0.001	2233	1518			
C26	5.741	-0.003	92	71			
C28	6.097	-0.003	582	397			
C32	6.692	0.002	2696	3405	JP-4 (Tol-C14)	153037	9
C34	6.948	-0.005	5818	6047	BUNKERC (C10-C38)	137651	16
Filter Peak	----						
C36	7.212	0.011	640	1201			
C38	7.436	-0.003	884	1127			
C40	7.703	-0.003	860	170			
o-terph	4.168	0.002	2206722	1375062	JET-A (C10-C18)	49504	4
Triacon Surr	6.424	0.004	1529826	1164865	JP8 (Tol-C16)	161096	9

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1375062	64.2	142.7
Triacontane	1164865	66.1	146.9

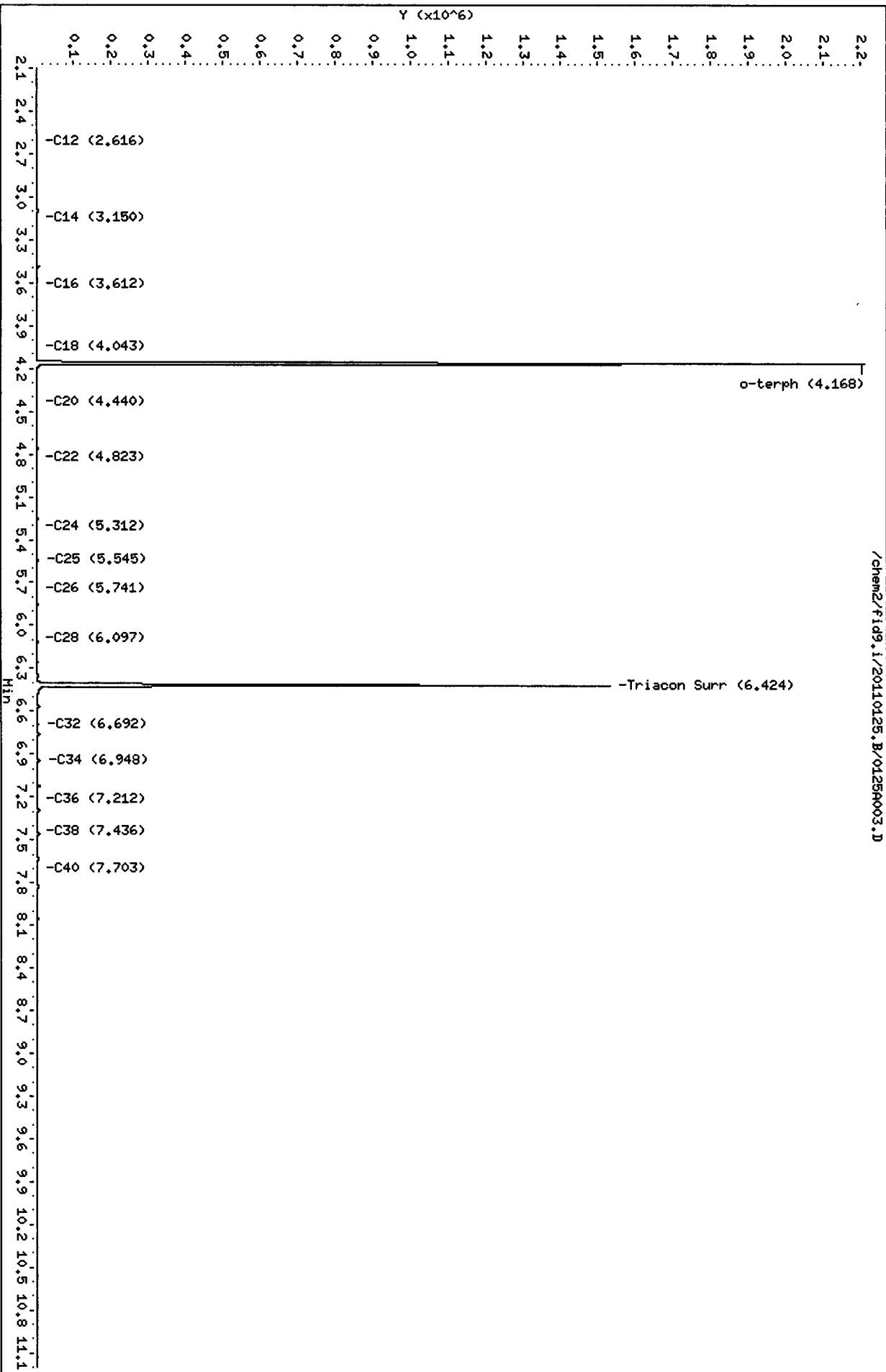
Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110125.B/0125A003.D
Date : 25-JAN-2011 14:17
Client ID: IB
Sample Info: IB

Column phase: RTX-1

/chem2/fid9.i/20110125.B/0125A003.D

Instrument: fid9.i
Operator: HS
Column diameter: 0.25



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A004.D
 Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 02/02/2011

ARI ID: DIESEL#1
 Client ID: LORA LAKE APTS. RI
 Injection: 25-JAN-2011 14:39
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.333	0.009	4248	4278	GAS (Tol-C12)	909139	43
C8	1.358	0.053	3813	5554	DIESEL (C12-C24)	5624540	248
C10	1.986	0.001	35375	27324	M.OIL (C24-C38)	80772	6
C12	2.622	0.002	85181	57198	AK-102 (C10-C25)	6299666	247 M
C14	3.154	-0.001	171452	103200	AK-103 (C25-C36)	52847	6
C16	3.623	-0.001	310035	168502			
C18	4.043	-0.002	260247	172828			
C20	4.430	-0.002	159085	97499			
C22	4.819	-0.004	53749	42806			
C24	5.316	-0.003	14346	13536			
C25	5.538	-0.006	7039	5900			
C26	5.741	-0.004	2674	2839			
C28	6.097	-0.003	273	218			
C32	6.691	0.001	139	152	JP-4 (Tol-C14)	1938026	118
C34	6.939	-0.014	3133	2840	BUNKERC (C10-C38)	6362495	752 M
Filter Peak	----						
C36	7.208	0.006	264	112			
C38	7.440	0.001	3238	3491			
C40	7.709	0.002	532	317			
o-terph	4.164	-0.001	1694815	943121	JET-A (C10-C18)	4689940	339
Triacon Surr	6.432	0.012	45	24	JP8 (Tol-C16)	3407214	194

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

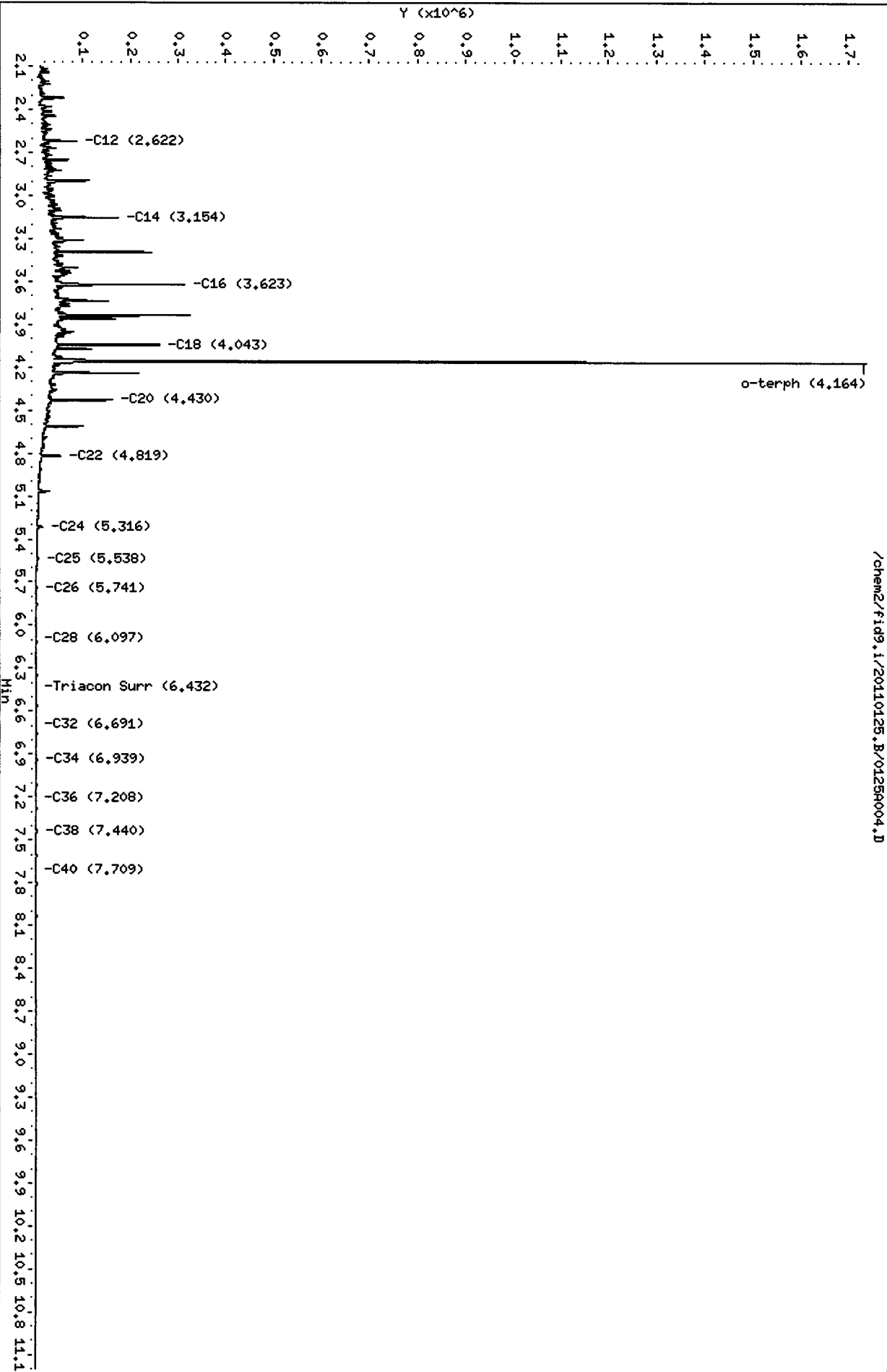
Surrogate	Area	Amount	%Rec
o-Terphenyl	943121	44.0	97.9
Triacontane	24	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110125.B/0125A004.D
 Date : 25-JAN-2011 14:39
 Client ID: LORA LAKE APTS. RI
 Sample Info: DIESEL#1
 Column phase: RTX-1

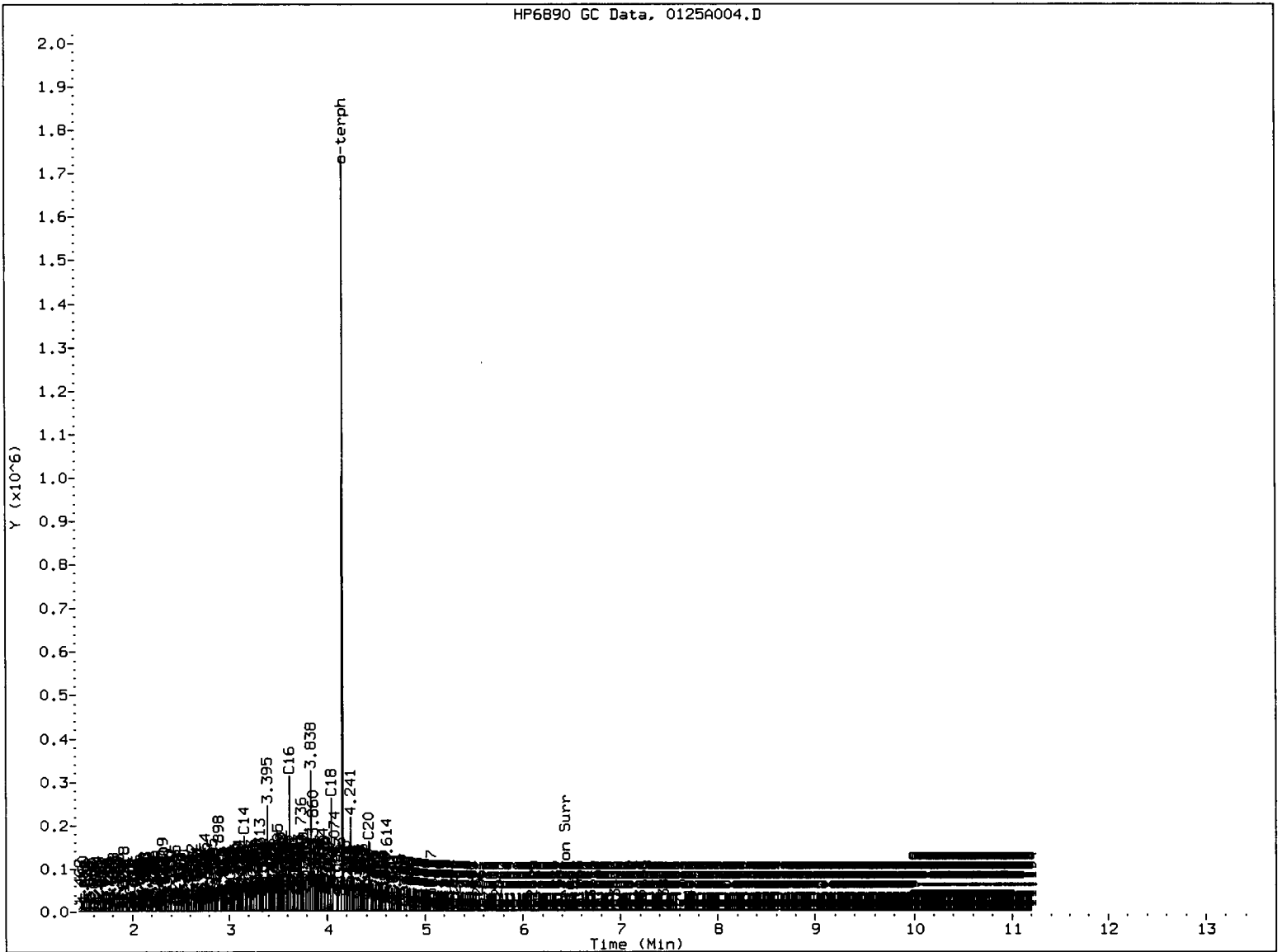
Instrument: fid9.i
 Operator: HS
 Column diameter: 0.25

Page 1



00 01 02 03 04 05

HP6890 GC Data, 0125A004.D



MANUAL INTEGRATION

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

Analyst: *[Signature]*

Date: 2/2/11

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A005.D
 Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 02/02/2011

ARI ID: MOIL#1
 Client ID: LORA LAKE APTS. RI
 Injection: 25-JAN-2011 15:01
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.366	0.042	3184	697	GAS (Tol-C12)	50793	2
C8	1.372	0.067	3207	1211	DIESEL (C12-C24)	749246	33
C10	1.989	0.003	1430	1756	M.OIL (C24-C38)	6988648	527
C12	2.621	0.001	1215	1082	AK-102 (C10-C25)	958603	38
C14	3.149	-0.006	113	127	AK-103 (C25-C36)	6091193	717 M
C16	3.613	-0.011	173	113			
C18	4.050	0.004	749	483			
C20	4.428	-0.005	4896	4578			
C22	4.817	-0.006	13880	5233			
C24	5.320	0.001	23163	15782			
C25	5.544	0.000	34043	26999			
C26	5.748	0.004	37293	8070			
C28	6.107	0.006	59846	71046			
C32	6.689	-0.001	77147	65352	JP-4 (Tol-C14)	59201	4
C34	6.950	-0.003	76336	22626	BUNKERC (C10-C38)	7752416	916 M
Filter Peak	----						
C36	7.197	-0.005	67531	50001			
C38	7.436	-0.003	51898	59702			
C40	7.705	-0.001	25615	9476			
o-terph	4.167	0.002	1130	1120	JET-A (C10-C18)	46389	3
Triacon Surr	6.420	0.000	1241571	921673	JP8 (Tol-C16)	64897	4

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1120	0.1	0.1
Triacontane	921673	52.3	116.2

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110125.B/0125A005.D

Date : 25-JAN-2011 15:01

Client ID: LORA LAKE APTS. RI

Sample Info: M01L#1

Page 1

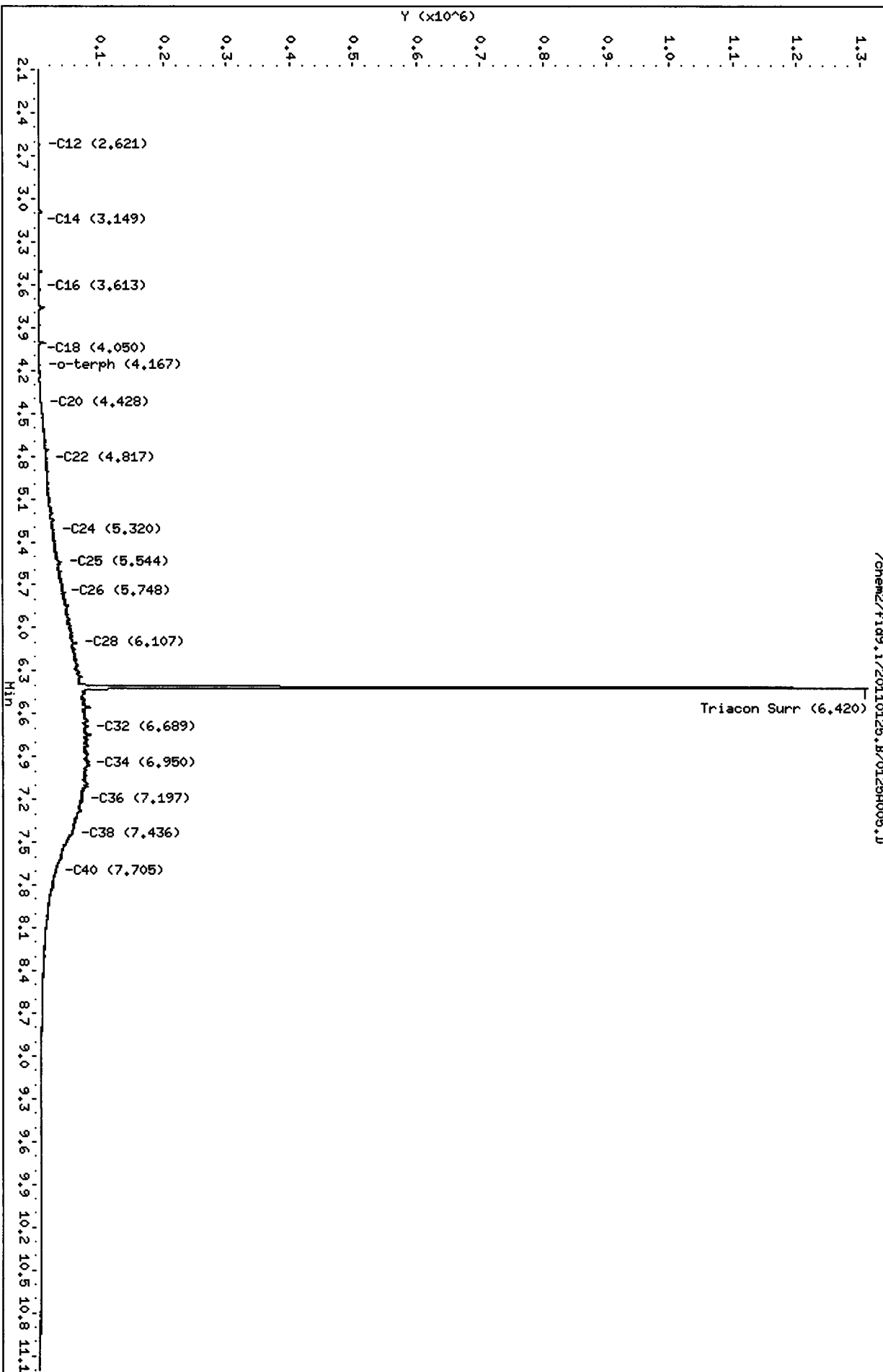
Instrument: fid9.i

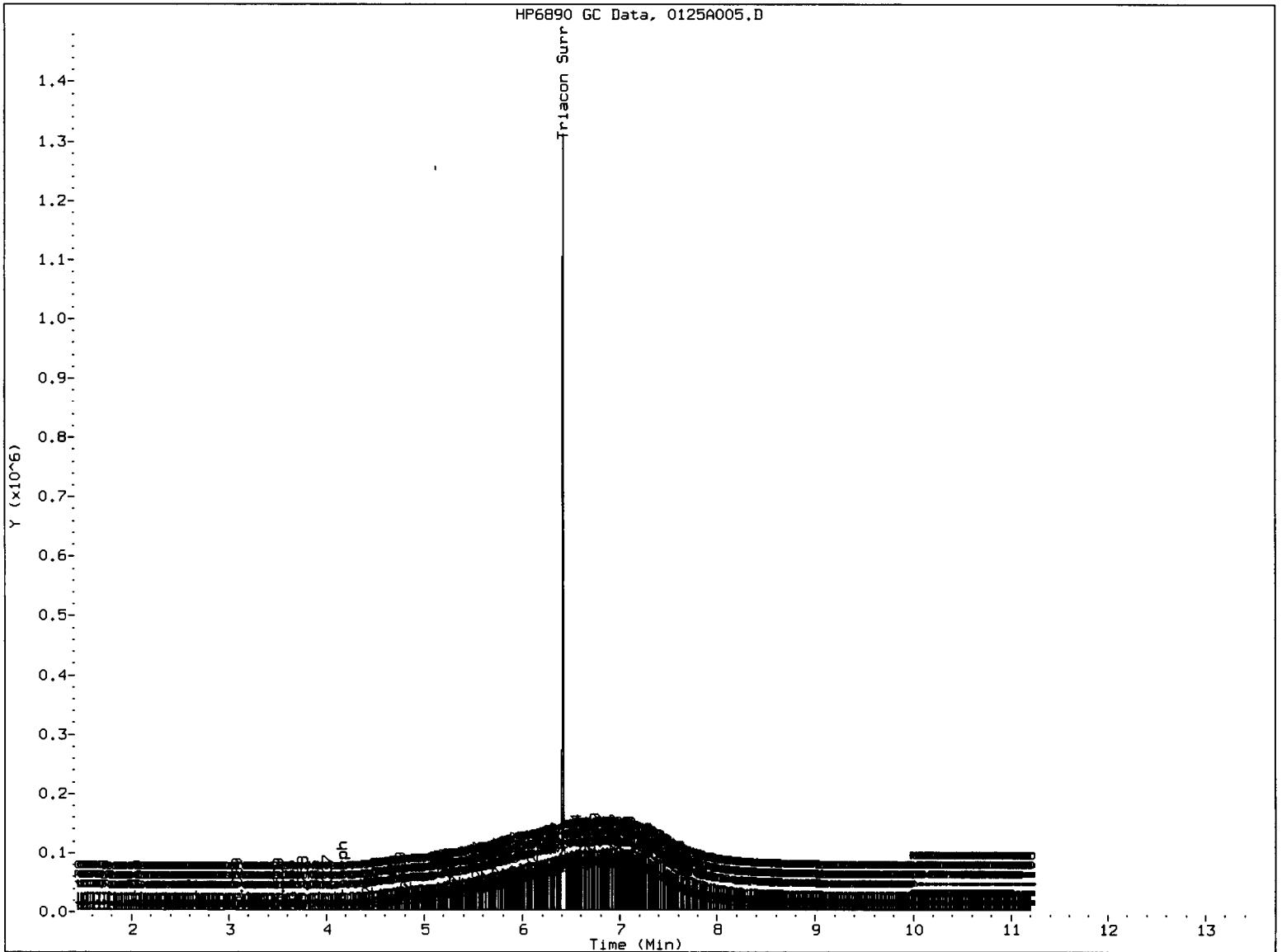
Operator: MS

Column diameter: 0.25

Column phase: RTX-1

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MANUAL INTEGRATION

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

Analyst: *[Signature]*

Date: *2/2/11*

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A006.D
 Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 01/27/2011

ARI ID: SF26MBW1
 Client ID: SF26MBW1
 Injection: 25-JAN-2011 15:22
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.345	0.021	3280	4654	GAS (Tol-C12)	74539	4
C8	----				DIESEL (C12-C24)	27637	1
C10	1.991	0.006	1479	1641	M.OIL (C24-C38)	35822	3
C12	2.620	0.000	390	503	AK-102 (C10-C25)	48263	2
C14	3.152	-0.003	219	304	AK-103 (C25-C36)	26465	3
C16	3.621	-0.003	264	243			
C18	4.045	0.000	254	203			
C20	4.433	0.001	175	168			
C22	4.822	-0.001	69	25			
C24	5.314	-0.004	44	28			
C25	5.548	0.005	236	196			
C26	5.742	-0.002	59	24			
C28	6.097	-0.003	438	333			
C32	6.688	-0.002	1681	2267	JP-4 (Tol-C14)	83522	5
C34	6.943	-0.009	1079	1366	BUNKERC (C10-C38)	83922	10
Filter Peak	----						
C36	7.199	-0.002	474	288			
C38	7.443	0.004	1371	2186			
C40	7.699	-0.007	715	619			
o-terph	4.164	-0.001	1416815	794529	JET-A (C10-C18)	41006	3
Triacon Surr	6.418	-0.002	1205964	813323	JP8 (Tol-C16)	90020	5

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	794529	37.1	82.4
Triacontane	813323	46.1	102.5

Handwritten signature
 1/27/11

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110125.B/0125A006.D

Date : 25-JAN-2011 15:22

Client ID: SF26HBM1

Sample Info: SF26HBM1

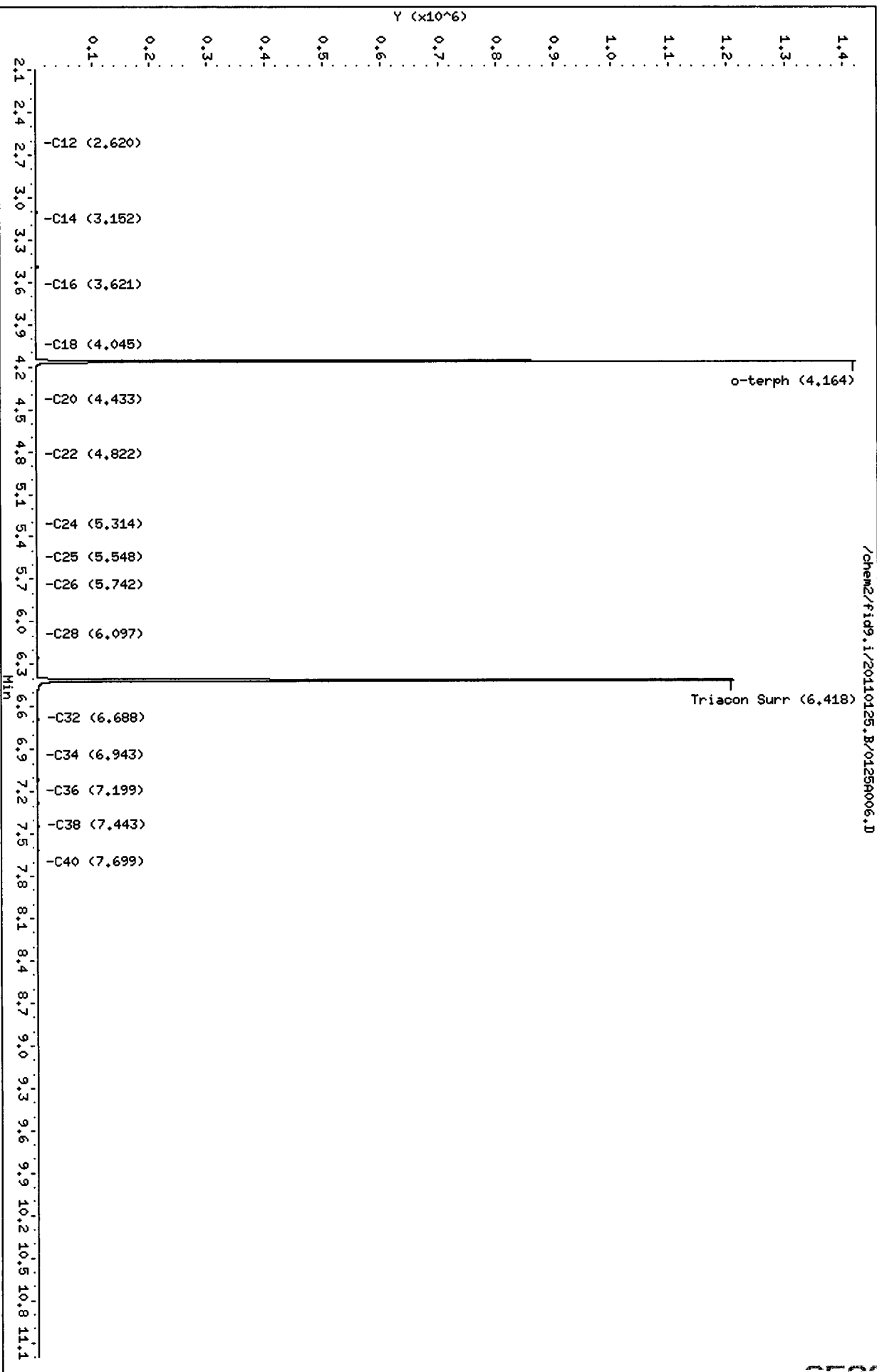
Column phase: RTX-1

Instrument: fid9.i

Operator: HS

Column diameter: 0.25

/chem2/fid9.i/20110125.B/0125A006.D



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A007.D
Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 01/27/2011

ARI ID: SF26LCSW1
Client ID: SF26LCSW1
Injection: 25-JAN-2011 15:44
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.357	0.033	3903	2938	GAS (Tol-C12)	3492774	166
C8	1.366	0.062	4287	2726	DIESEL (C12-C24)	27764152	1226
C10	1.985	0.000	118961	99031	M.OIL (C24-C38)	313716	24
C12	2.618	-0.002	331397	250809	AK-102 (C10-C25)	30623291	1200
C14	3.154	-0.001	636705	544268	AK-103 (C25-C36)	209829	25
C16	3.629	0.005	1216337	1164994			
C18	4.054	0.008	1102159	906794			
C20	4.436	0.004	768960	546477			
C22	4.823	0.000	295331	238642			
C24	5.315	-0.003	86937	66950			
C25	5.537	-0.006	39751	33551			
C26	5.740	-0.004	16199	13703			
C28	6.094	-0.006	2700	2892			
C32	6.684	-0.006	1653	1377	JP-4 (Tol-C14)	8023258	489
C34	6.939	-0.014	493	389	BUNKERC (C10-C38)	30835396	3645
Filter Peak	----						
C36	7.206	0.005	68	47			
C38	7.438	-0.001	616	605			
C40	7.703	-0.003	246	145			
o-terph	4.168	0.002	1642778	1343402	JET-A (C10-C18)	22734780	1645
Triacon Surr	6.413	-0.006	1099288	783586	JP8 (Tol-C16)	15288646	869

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1343402	62.7	139.4
Triacontane	783586	44.5	98.8

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

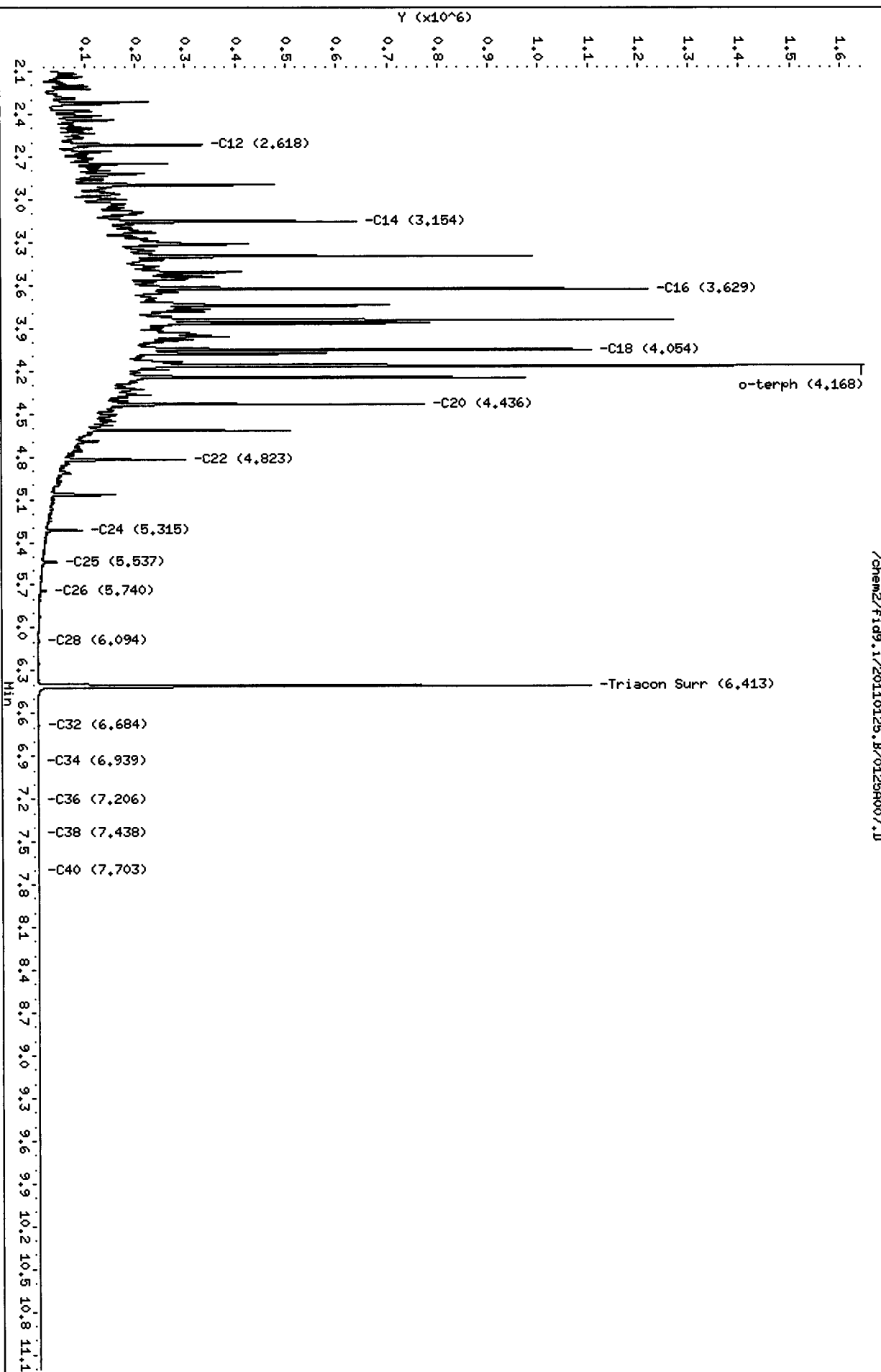
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Date: 25-JAN-2011 15:44
Client ID: SF26LCSM1
Sample Info: SF26LCSM1

Column phase: RTX-1

/chem2/fid9.i/20110125.B/0125A007.D

Instrument: fid9.i
Operator: HS
Column diameter: 0.25



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A007.D
 Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 01/27/2011

ARI ID: SF26LCSW1
 Client ID: SF26LCSW1
 Injection: 25-JAN-2011 15:44
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.357	0.033	3903	2938	GAS (Tol-C12)	3492774	166
C8	1.366	0.062	4287	2726	DIESEL (C12-C24)	28348063	1251
C10	1.985	0.000	118961	99031	M.OIL (C24-C38)	313716	24
C12	2.618	-0.002	331397	250809	AK-102 (C10-C25)	31207202	1223 M
C14	3.154	-0.001	636705	544268	AK-103 (C25-C36)	209829	25
C16	3.629	0.005	1216337	1164994			
C18	4.054	0.008	1102159	906794			
C20	4.436	0.004	768960	546477			
C22	4.823	0.000	295331	238642			
C24	5.315	-0.003	86937	66950			
C25	5.537	-0.006	39751	33551			
C26	5.740	-0.004	16199	13703			
C28	6.094	-0.006	2700	2892			
C32	6.684	-0.006	1653	1377	JP-4 (Tol-C14)	8023258	489
C34	6.939	-0.014	493	389	BUNKERC (C10-C38)	31419308	3714 M
Filter Peak	----						
C36	7.206	0.005	68	47			
C38	7.438	-0.001	616	605			
C40	7.703	-0.003	246	145			
o-terph	4.168	0.002	1390244	764067	JET-A (C10-C18)	22734780	1645
Triacon Surr	6.413	-0.006	1099288	783586	JP8 (Tol-C16)	15288646	869

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	764067	35.7	79.3
Triacontane	783586	44.5	98.8

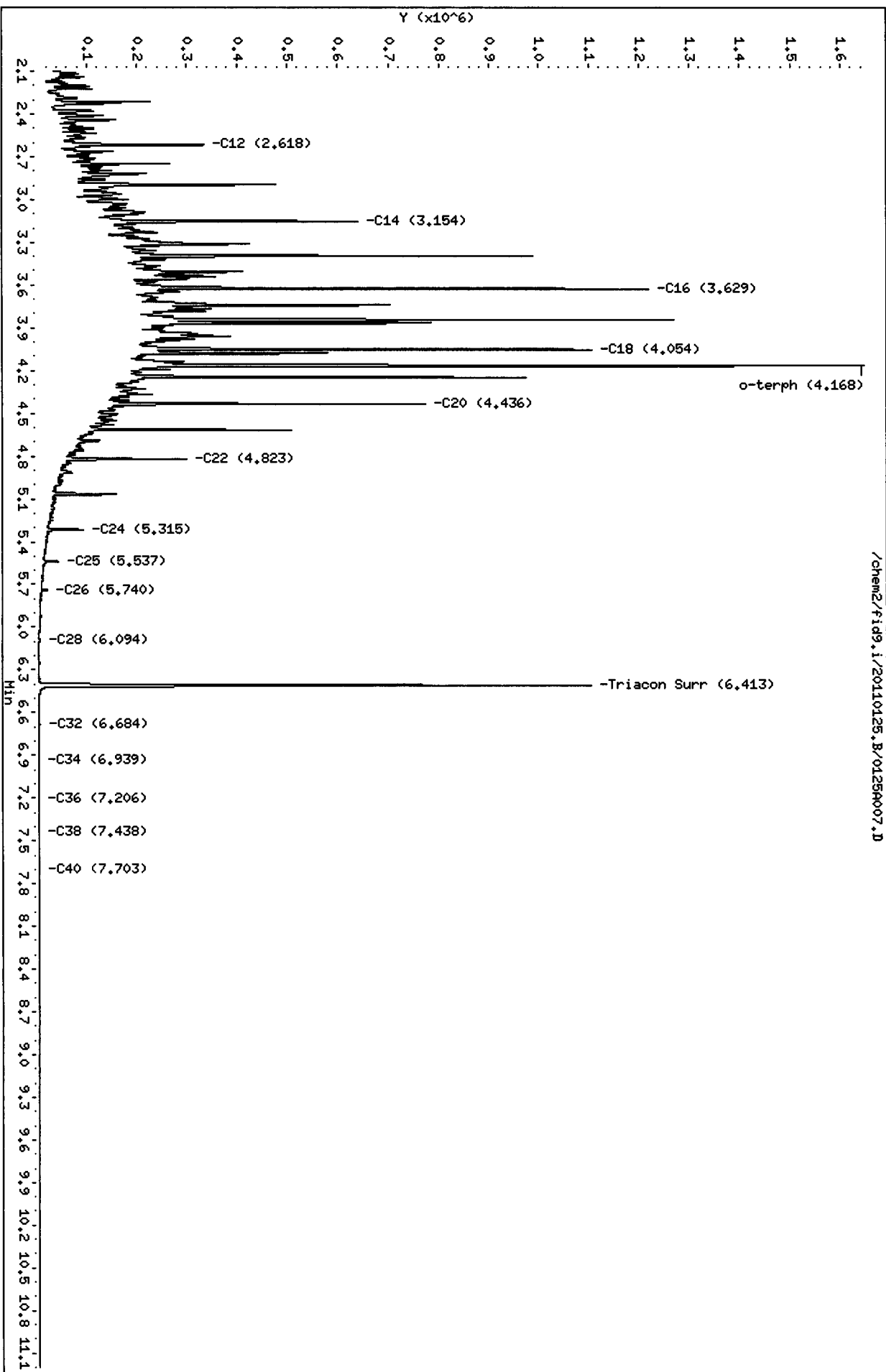
Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110125.B/0125A007.D
Date: 25-JAN-2011 15:44
Client ID: SF26LCSM1
Sample Info: SF26LCSM1

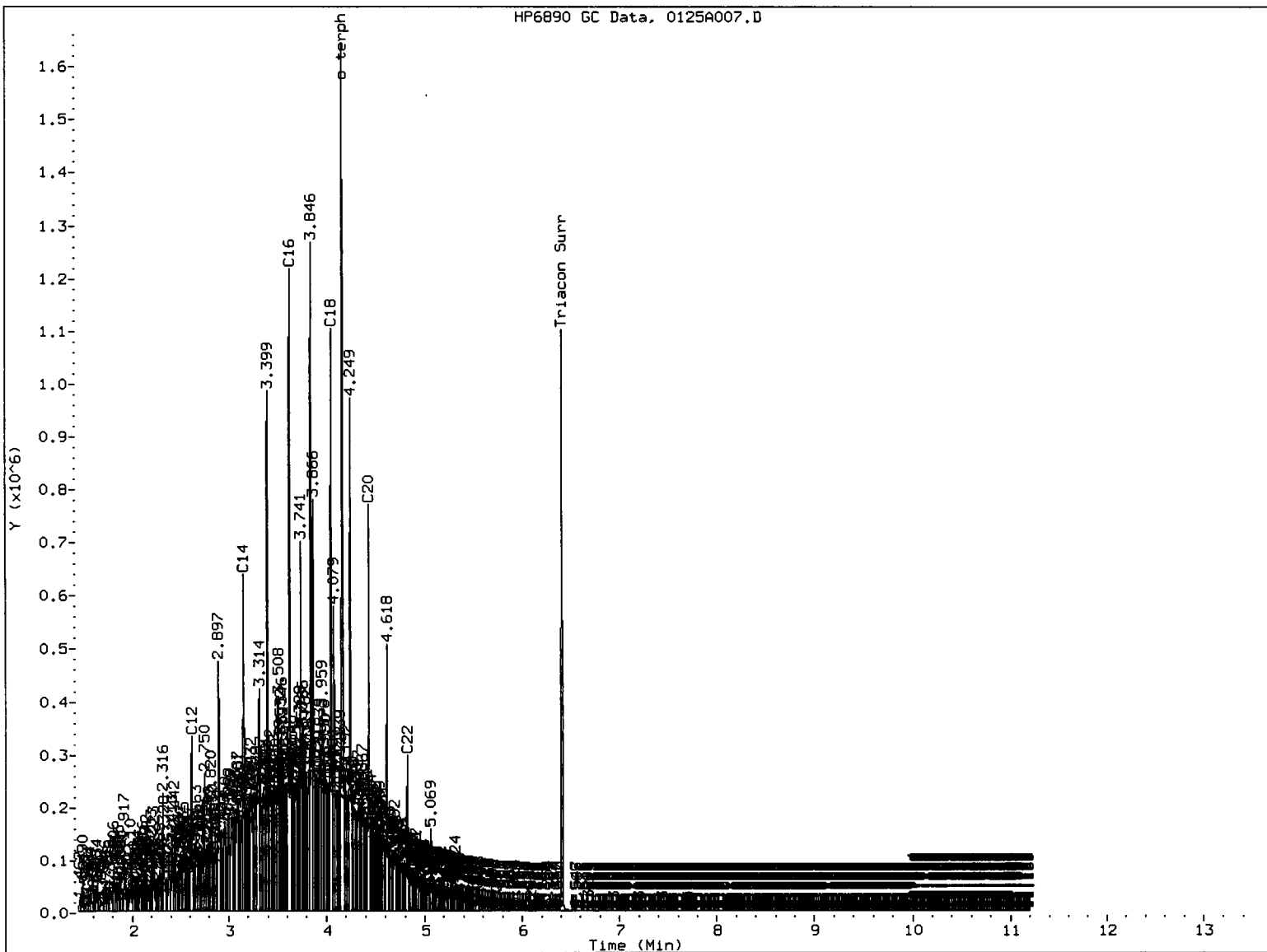
Column phase: RTX-1

Instrument: fid9.i
Operator: HS
Column diameter: 0.25

/chem2/fid9.i/20110125.B/0125A007.D



HP6890 GC Data, 0125A007.D



MANUAL INTEGRATION

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

Analyst: *[Signature]*

Date: *1/27/11*

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A009.D
Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 01/27/2011

ARI ID: SF26A
Client ID: MW11-011911
Injection: 25-JAN-2011 16:27
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.371	0.047	3139	1125	GAS (Tol-C12)	75659	4
C8	1.386	0.082	3318	2285	DIESEL (C12-C24)	24659	1
C10	1.988	0.003	1370	1785	M.OIL (C24-C38)	31590	2
C12	2.619	-0.001	360	84	AK-102 (C10-C25)	47209	2
C14	3.153	-0.002	223	259	AK-103 (C25-C36)	23430	3
C16	3.623	0.000	275	202			
C18	4.042	-0.004	291	146			
C20	4.428	-0.004	120	67			
C22	4.824	0.001	98	67			
C24	5.318	0.000	60	55			
C25	5.541	-0.002	64	17			
C26	5.739	-0.005	55	43			
C28	6.095	-0.005	392	341			
C32	6.685	-0.005	1564	1991	JP-4 (Tol-C14)	83895	5
C34	6.942	-0.011	797	1157	BUNKERC (C10-C38)	78659	9
Filter Peak	----						
C36	7.199	-0.002	450	200			
C38	7.449	0.010	1021	1620			
C40	7.706	0.000	697	342			
o-terph	4.161	-0.004	1420968	772221	JET-A (C10-C18)	41469	3
Triacon Surr	6.415	-0.005	1103718	767919	JP8 (Tol-C16)	89121	5

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	772221	36.1	80.1
Triacontane	767919	43.6	96.8

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Handwritten signature and date: Jan 27/11

Data File: /chem2/fid9.i/20110125.B/01259009.D

Date: 25-JAN-2011 16:27

Client ID: MM1-011911

Sample Info: SF26A

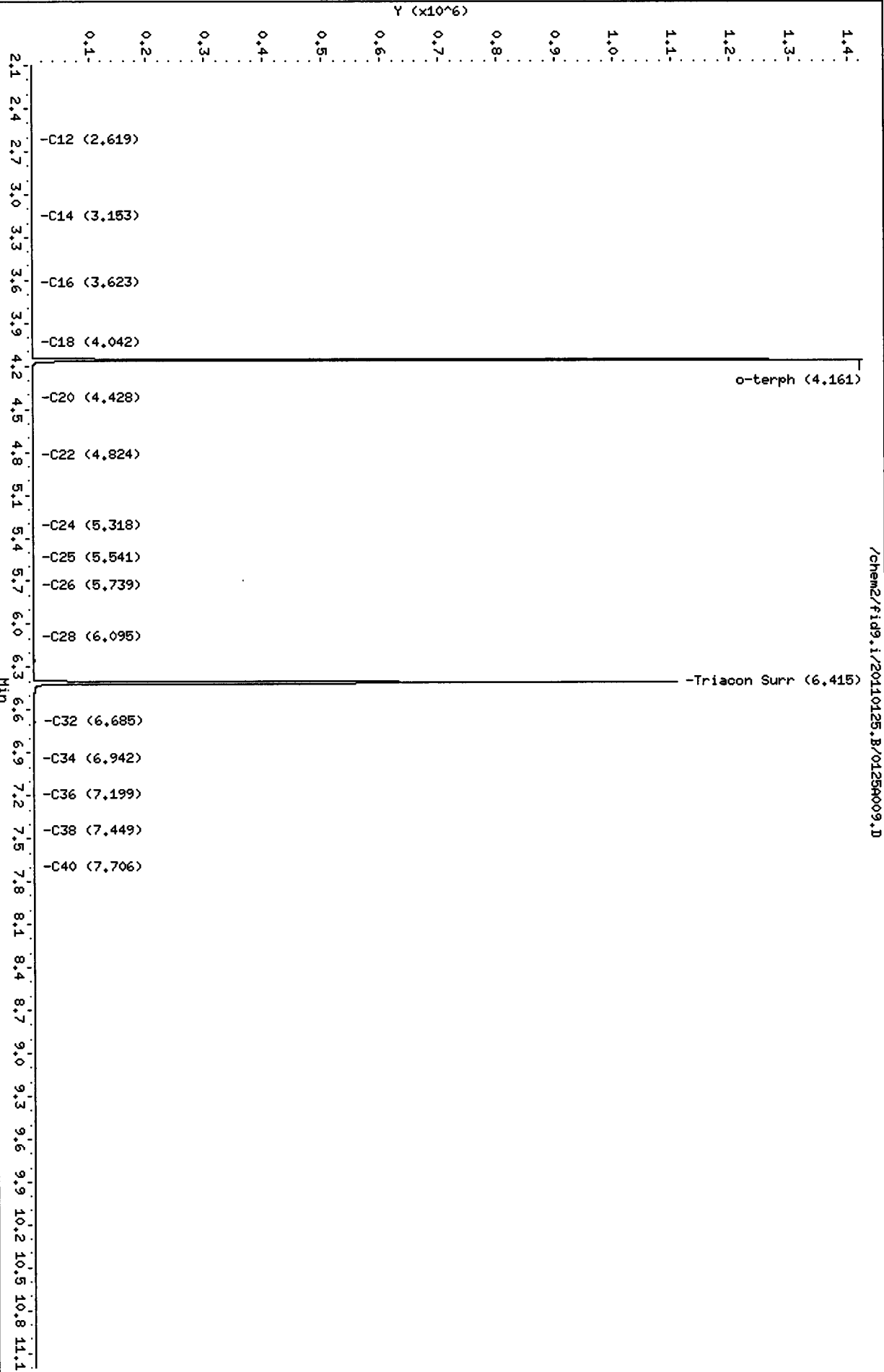
Column phase: RTX-1

Instrument: fid9.i

Operator: HS

Column diameter: 0.25

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Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A010.D
Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 01/27/2011

ARI ID: SF26B
Client ID: MW10-011911
Injection: 25-JAN-2011 16:49
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.367	0.043	3041	1912	GAS (Tol-C12)	66646	3
C8	----				DIESEL (C12-C24)	18985	1
C10	1.988	0.003	1376	1700	M.OIL (C24-C38)	94961	7
C12	2.624	0.004	330	345	AK-102 (C10-C25)	38207	1
C14	3.151	-0.004	182	169	AK-103 (C25-C36)	86244	10
C16	3.622	-0.002	243	198			
C18	4.043	-0.002	215	100			
C20	4.432	0.000	69	17			
C22	4.823	0.000	58	50			
C24	5.318	0.000	55	39			
C25	5.542	-0.002	102	35			
C26	5.745	0.001	105	103			
C28	6.097	-0.003	672	662			
C32	6.692	0.002	2449	3177	JP-4 (Tol-C14)	72831	4
C34	6.953	0.000	3185	1299	BUNKERC (C10-C38)	133046	16
Filter Peak	----						
C36	7.197	-0.004	551	390			
C38	7.437	-0.002	601	256			
C40	7.703	-0.003	699	578			
o-terph	4.163	-0.003	1383014	788089	JET-A (C10-C18)	34050	2
Triacon Surr	6.418	-0.001	1171399	798826	JP8 (Tol-C16)	76741	4

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	788089	36.8	81.8
Triacontane	798826	45.3	100.7

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.1/20110125.B/01259010.D

Date: 25-JAN-2011 16:49

Client ID: MM10-011911

Sample Info: SF26B

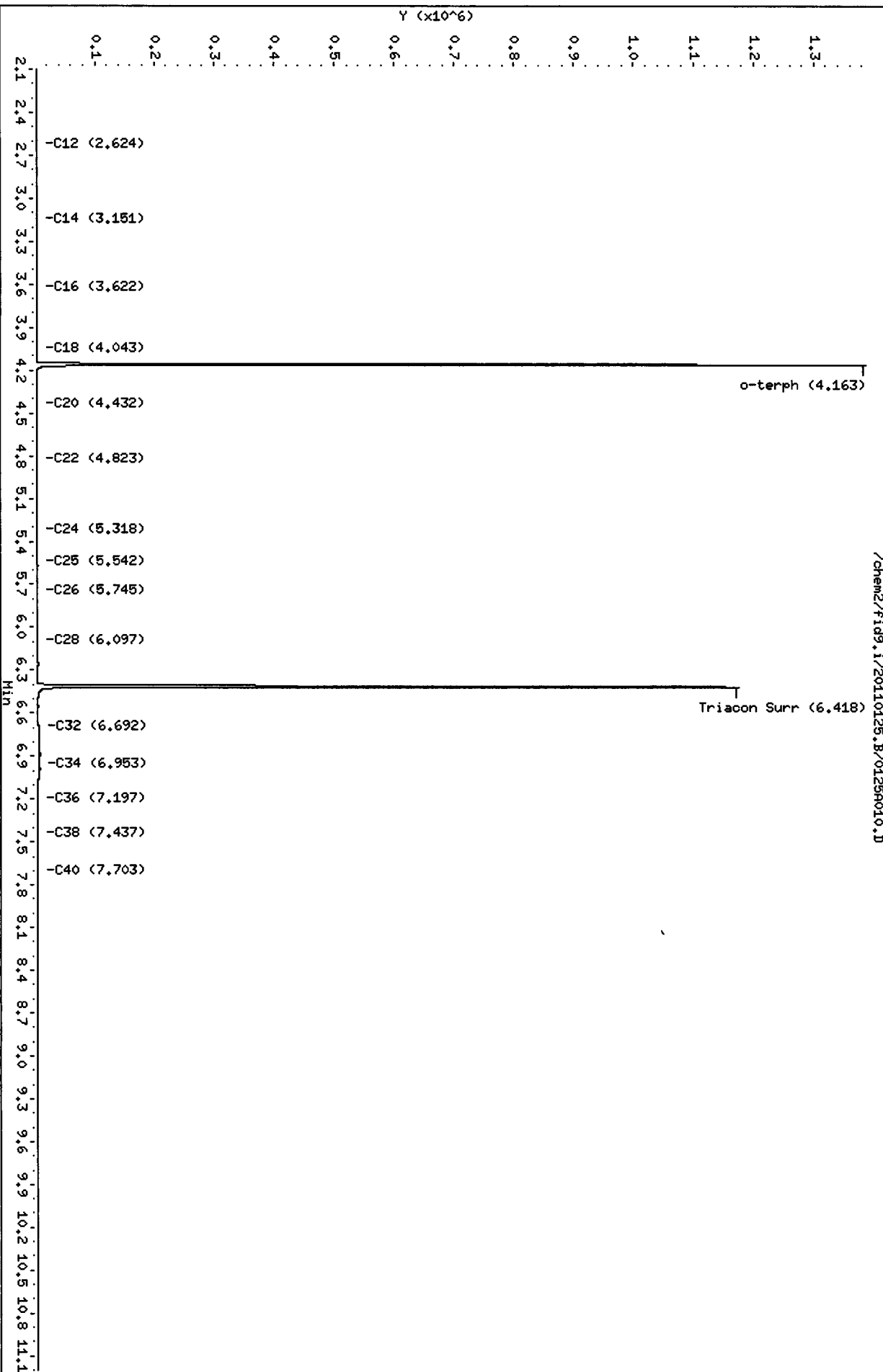
Column phase: RTX-1

Instrument: fid9.1

Operator: HS

Column diameter: 0.25

Page 1



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A011.D
Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 01/27/2011

ARI ID: SF26C
Client ID: MW07-011911
Injection: 25-JAN-2011 17:11
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.385	0.061	4966	4380	GAS (Tol-C12)	80271	4
C8	----				DIESEL (C12-C24)	27322	1
C10	1.986	0.000	1421	1734	M.OIL (C24-C38)	34604	3
C12	2.622	0.002	404	374	AK-102 (C10-C25)	51756	2
C14	3.152	-0.004	224	268	AK-103 (C25-C36)	26365	3
C16	3.623	-0.001	275	285			
C18	4.044	-0.001	326	186			
C20	4.438	0.005	239	383			
C22	4.825	0.002	122	103			
C24	5.320	0.002	75	65			
C25	5.544	0.000	116	54			
C26	5.743	-0.002	97	84			
C28	6.098	-0.002	494	403			
C32	6.693	0.003	1766	2050	JP-4 (Tol-C14)	88777	5
C34	6.953	0.000	833	1210	BUNKERC (C10-C38)	86154	10
Filter Peak	----						
C36	7.199	-0.002	454	455			
C38	7.440	0.001	569	100			
C40	7.703	-0.003	669	290			
o-terph	4.163	-0.003	1402609	777953	JET-A (C10-C18)	44567	3
Triacon Surr	6.420	0.001	1144090	799724	JP8 (Tol-C16)	94827	5

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	777953	36.3	80.7
Triacontane	799724	45.4	100.8

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

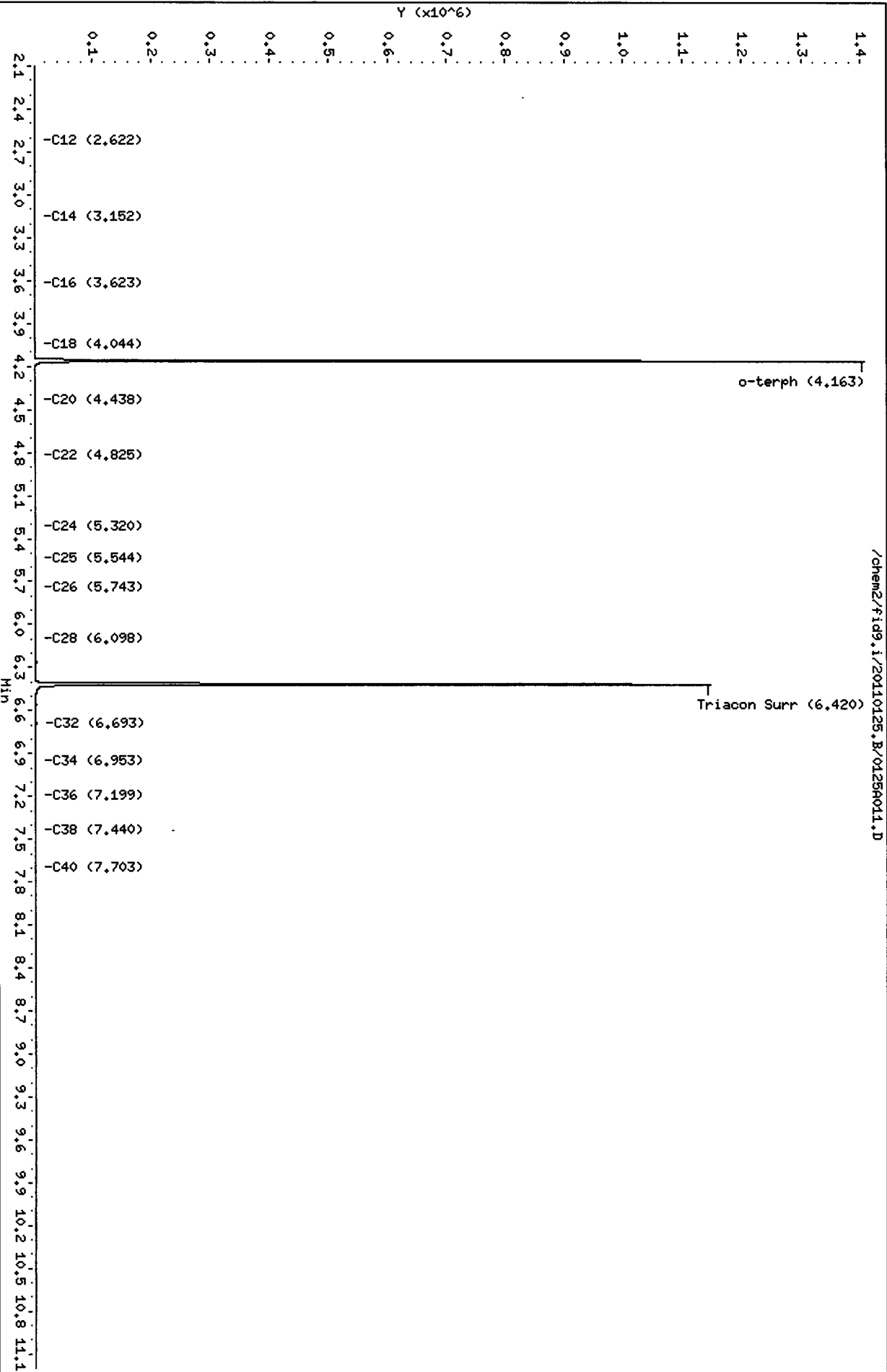
Column phase: RTX-1

Instrument: fid9.i

Operator: HS

Column diameter: 0.25

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Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A012.D
Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 01/27/2011

ARI ID: SF26D
Client ID: MW14-011911
Injection: 25-JAN-2011 17:32
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.374	0.049	3611	720	GAS (Tol-C12)	84756	4
C8	1.399	0.095	3906	10902	DIESEL (C12-C24)	25687	1
C10	1.989	0.004	1494	2593	M.OIL (C24-C38)	33505	3
C12	2.618	-0.002	422	116	AK-102 (C10-C25)	51520	2
C14	3.153	-0.003	278	259	AK-103 (C25-C36)	25341	3
C16	3.621	-0.003	262	256			
C18	4.042	-0.004	260	204			
C20	4.438	0.006	170	173			
C22	4.827	0.004	92	71			
C24	5.318	0.000	68	36			
C25	5.548	0.004	158	181			
C26	5.744	0.000	71	26			
C28	6.097	-0.004	428	347			
C32	6.695	0.004	1753	2002	JP-4 (Tol-C14)	94016	6
C34	6.956	0.003	837	1277	BUNKERC (C10-C38)	84903	10
Filter Peak	----						
C36	7.201	-0.001	443	404			
C38	7.439	0.000	580	468			
C40	7.710	0.003	674	213			
o-terph	4.162	-0.004	1523218	833568	JET-A (C10-C18)	45986	3
Triacon Surr	6.420	0.000	1145002	829957	JP8 (Tol-C16)	100610	6

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	833568	38.9	86.5
Triacontane	829957	47.1	104.6

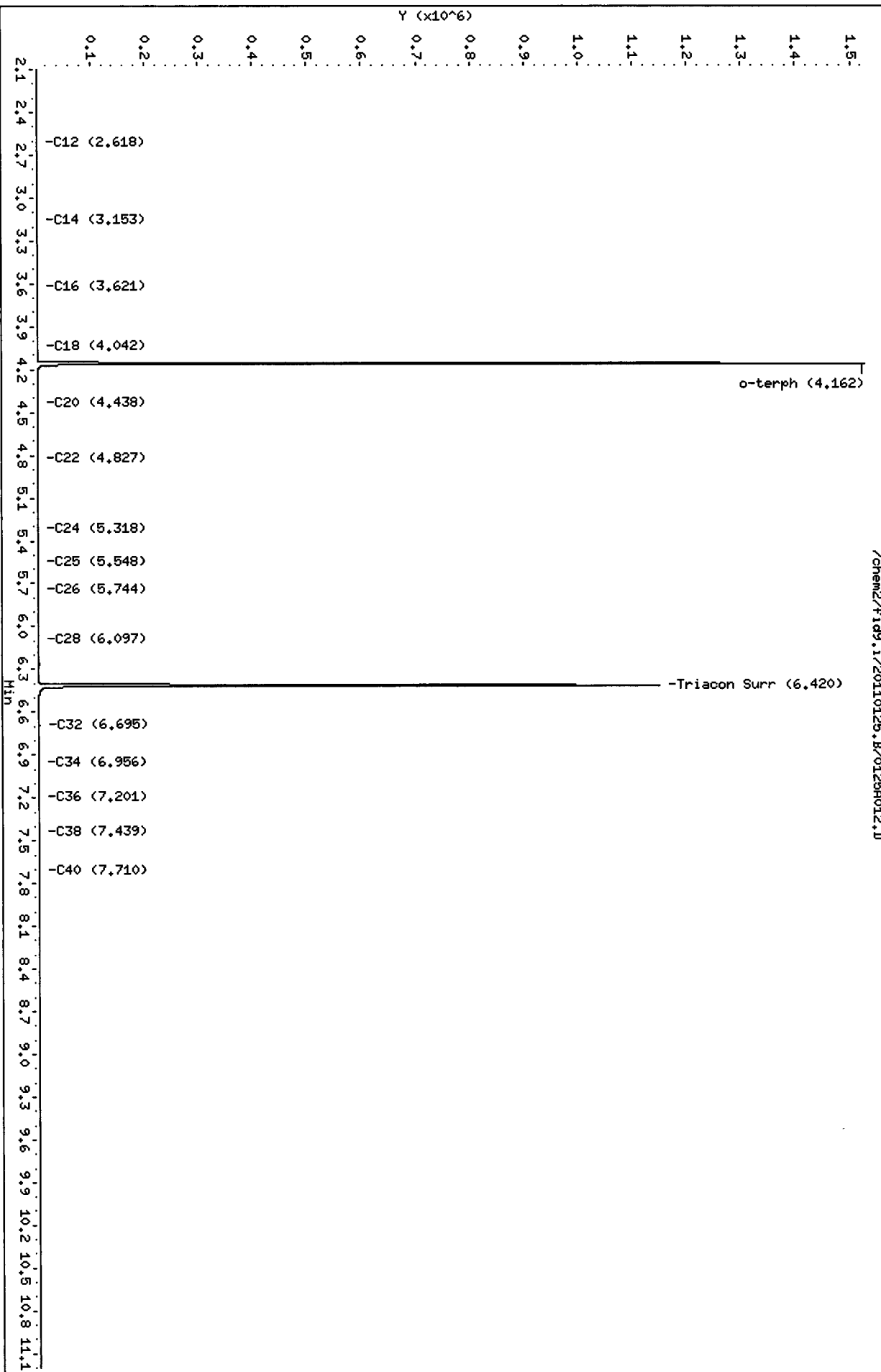
Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110125.B/0125A012.D
Date: 25-JAN-2011 17:32
Client ID: MM14-011911
Sample Info: SF26D

Column phase: RTX-1

/chem2/fid9.i/20110125.B/0125A012.D

Instrument: fid9.i
Operator: HS
Column diameter: 0.25



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A013.D
 Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 02/02/2011

ARI ID: DIESEL#2
 Client ID: LORA LAKE APTS. RI
 Injection: 25-JAN-2011 17:54
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.328	0.004	5310	6496	GAS (Tol-C12)	969326	46
C8	1.349	0.045	4576	821	DIESEL (C12-C24)	5540246	245
C10	1.985	0.000	33788	27628	M.OIL (C24-C38)	65967	5
C12	2.622	0.002	84981	57541	AK-102 (C10-C25)	6258730	245 M
C14	3.155	0.000	172150	103857	AK-103 (C25-C36)	41504	5
C16	3.623	0.000	317039	169279			
C18	4.044	-0.002	273556	170688			
C20	4.430	-0.002	148534	101191			
C22	4.820	-0.002	54257	44907			
C24	5.316	-0.002	14981	15375			
C25	5.539	-0.005	6762	5916			
C26	5.741	-0.003	2674	2980			
C28	6.096	-0.004	283	254			
C32	6.689	-0.001	52	18	JP-4 (Tol-C14)	1956247	119
C34	6.943	-0.010	113	37	BUNKERC (C10-C38)	6306147	745 M
Filter Peak	----						
C36	7.200	-0.001	243	55			
C38	7.437	-0.001	373	212			
C40	7.714	0.008	511	100			
o-terph	4.165	0.000	1673404	945432	JET-A (C10-C18)	4698483	340
Triacon Surr	6.411	-0.008	839	650	JP8 (Tol-C16)	3405049	194

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	945432	44.1	98.1
Triacontane	650	0.0	0.1

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110125.B/0125R013.D

Date : 25-JAN-2011 17:54

Client ID: LORA LAKE APPTS. RI

Sample Info: DIESEL#2

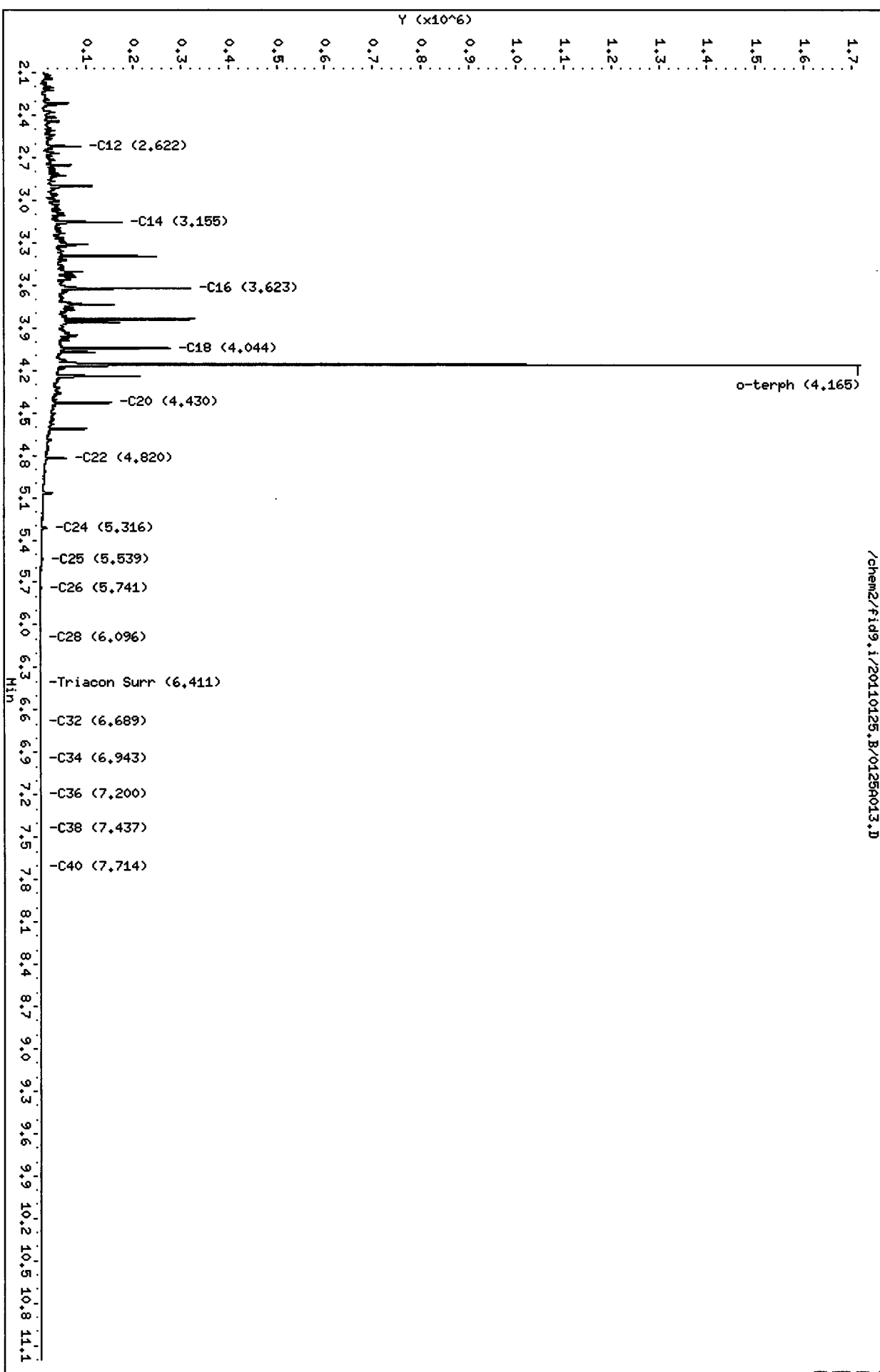
Column phase: RTX-1

Instrument: fid9.i

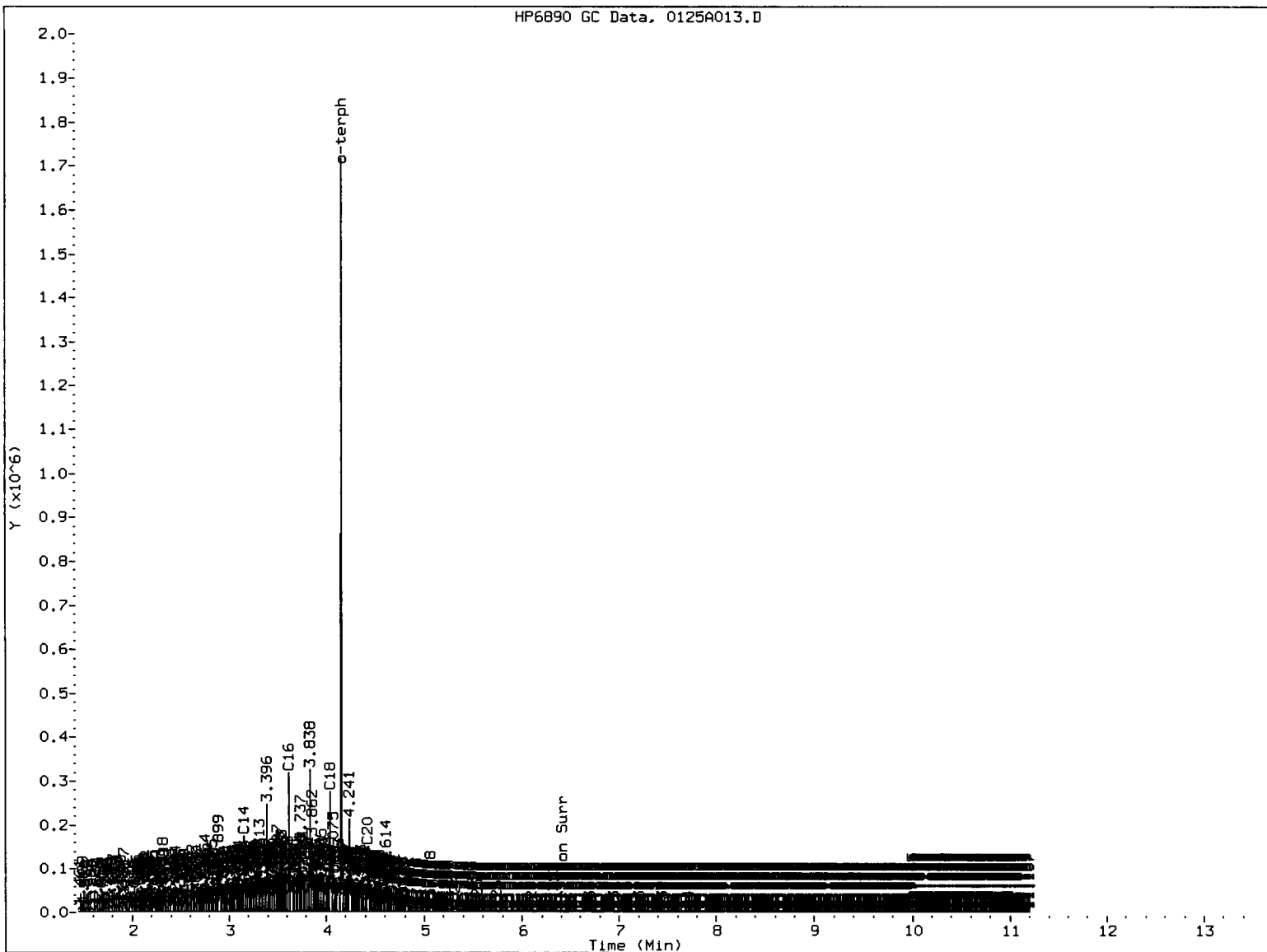
Operator: HS

Column diameter: 0.25

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HP6890 GC Data, 0125A013.D



MANUAL INTEGRATION

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

Analyst: [Signature] Date: [Signature]

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A014.D
 Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 02/02/2011

ARI ID: MOIL#2
 Client ID: LORA LAKE APTS. RI
 Injection: 25-JAN-2011 18:16
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.359	0.035	3808	1963	GAS (Tol-C12)	69945	3
C8	1.370	0.065	3779	3204	DIESEL (C12-C24)	774035	34
C10	1.985	-0.001	1305	1948	M.OIL (C24-C38)	6929506	522
C12	2.622	0.002	1295	1467	AK-102 (C10-C25)	959322	38
C14	3.154	-0.001	107	16	AK-103 (C25-C36)	5993218	705 M
C16	3.634	0.010	1924	1778			
C18	4.048	0.003	745	608			
C20	4.429	-0.003	4765	5154			
C22	4.817	-0.005	14597	15327			
C24	5.319	0.001	22568	17903			
C25	5.545	0.002	34594	37477			
C26	5.750	0.006	38222	16386			
C28	6.096	-0.004	51793	9163			
C32	6.694	0.004	75420	41108	JP-4 (Tol-C14)	76875	5
C34	6.952	0.000	74380	17667	BUNKERC (C10-C38)	7718637	912 M
Filter Peak	----						
C36	7.199	-0.002	68251	32965			
C38	7.440	0.001	50978	13088			
C40	7.703	-0.003	27280	8006			
o-terph	4.166	0.001	1220	1117	JET-A (C10-C18)	46958	3
Triacon Surr	6.423	0.004	1279537	911672	JP8 (Tol-C16)	81539	5

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1117	0.1	0.1
Triacontane	911672	51.7	114.9

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110125.B/0125A014.D

Date: 25-JAN-2011 18:16

Client ID: LORA LAKE APTS. RI

Sample Info: HOIL#2

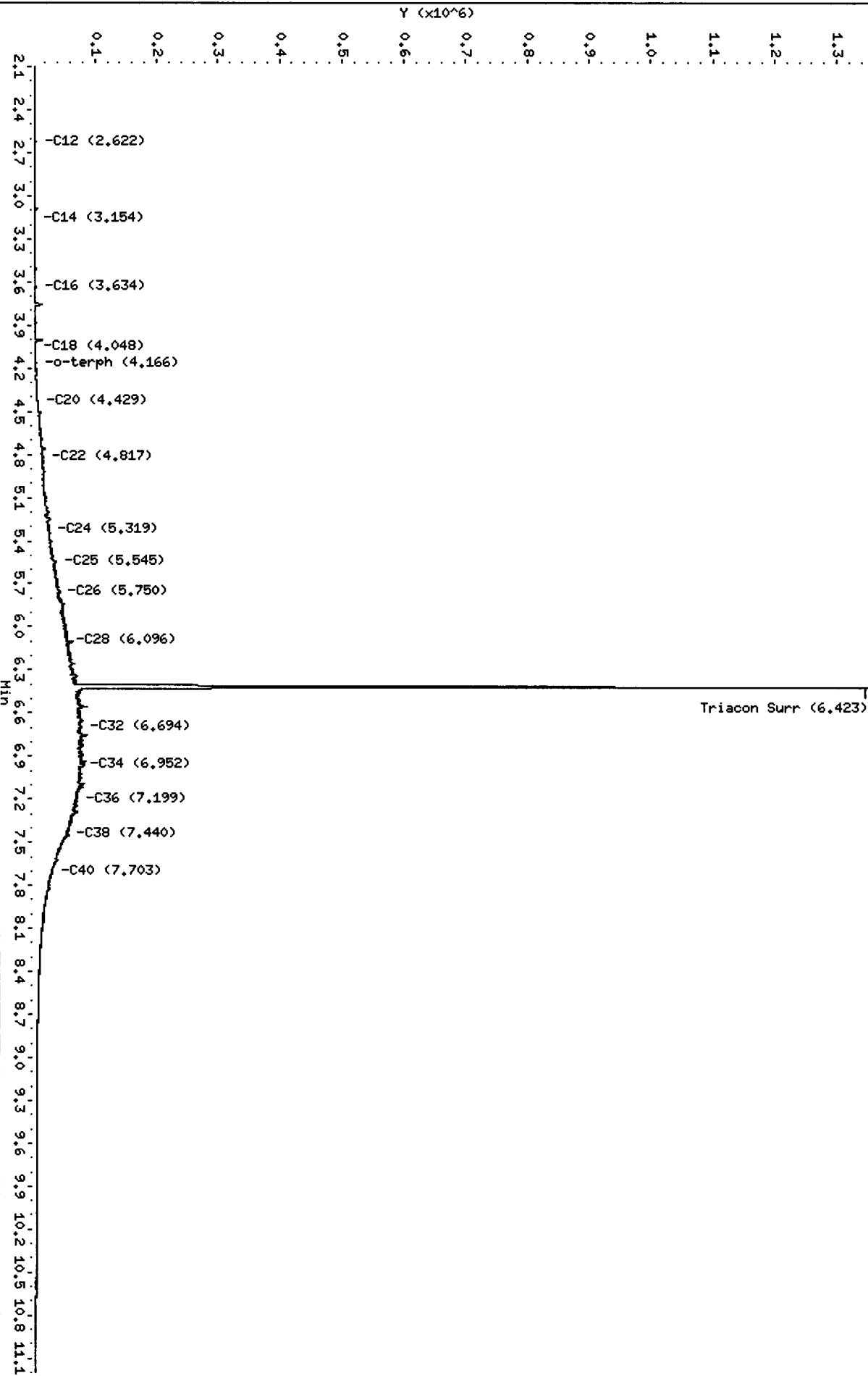
Column phase: RTX-1

Instrument: fid9.i

Operator: HS

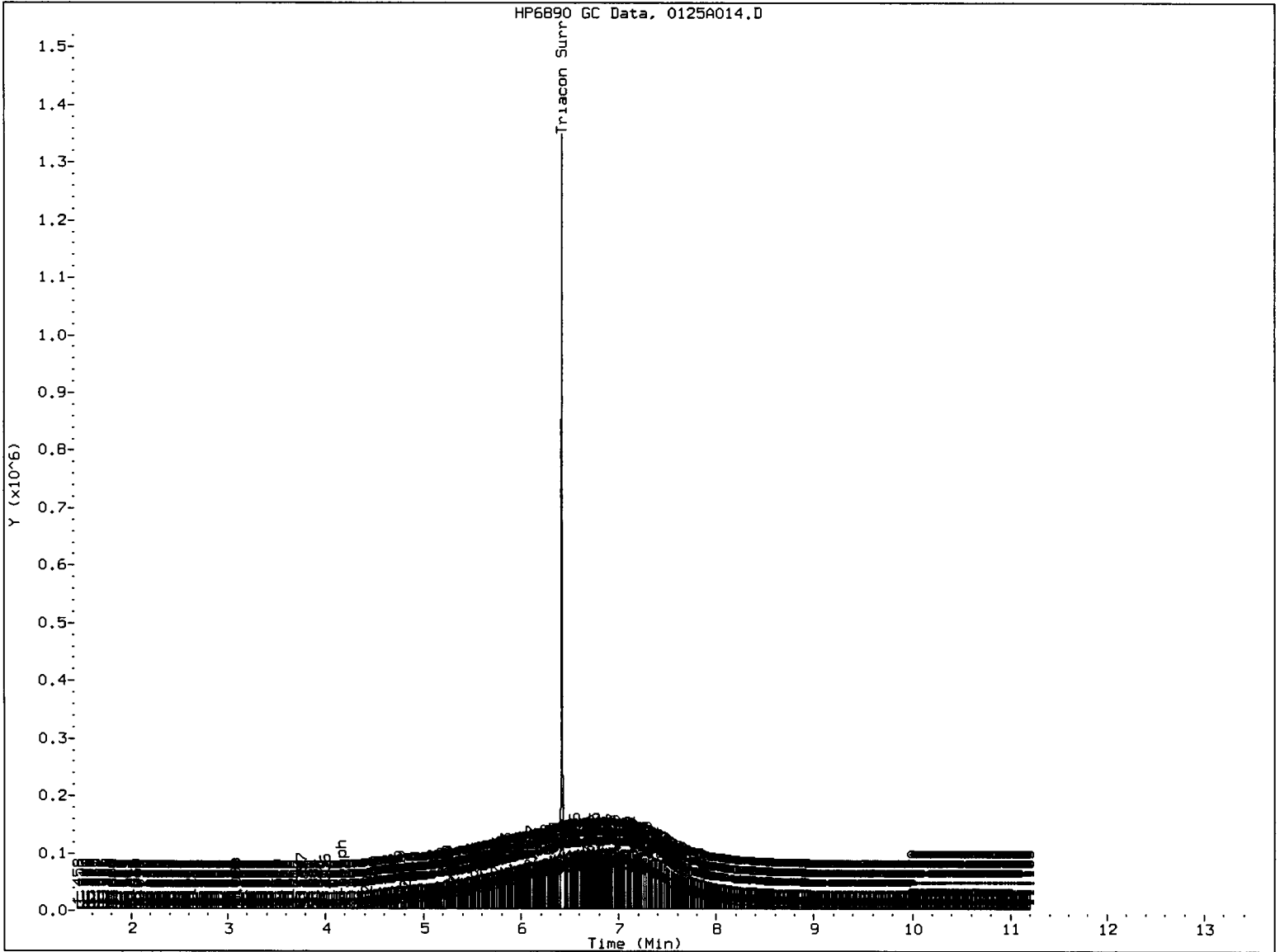
Column diameter: 0.25

/chem2/fid9.i/20110125.B/0125A014.D



FID: 9A-2C/RTX-1 MOIL#2

FID: 9A SIGNAL



MANUAL INTEGRATION

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

Analyst: *[Signature]*

Date: 2/2/11

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A015.D
 Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 01/27/2011

ARI ID: SF50A
 Client ID: MW13-012011
 Injection: 25-JAN-2011 18:37
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.369	0.045	3525	1191	GAS (Tol-C12)	81879	4
C8	----				DIESEL (C12-C24)	32261	1
C10	1.986	0.001	1555	1889	M.OIL (C24-C38)	38144	3
C12	2.619	-0.002	426	101	AK-102 (C10-C25)	57796	2
C14	3.143	-0.013	299	266	AK-103 (C25-C36)	29244	3
C16	3.623	-0.001	340	290			
C18	4.043	-0.002	320	188			
C20	4.437	0.005	172	206			
C22	4.825	0.002	103	89			
C24	5.315	-0.003	88	81			
C25	5.548	0.004	495	368			
C26	5.738	-0.006	55	41			
C28	6.096	-0.005	444	360			
C32	6.687	-0.003	1818	2277	JP-4 (Tol-C14)	92440	6
C34	6.944	-0.009	1223	1523	BUNKERC (C10-C38)	95778	11
Filter Peak	----						
C36	7.204	0.002	495	263			
C38	7.445	0.006	1197	1685			
C40	7.707	0.000	710	374			
o-terph	4.162	-0.004	1509616	828245	JET-A (C10-C18)	49719	4
Triacon Surr	6.416	-0.003	1188049	821971	JP8 (Tol-C16)	99543	6

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	828245	38.7	85.9
Triacontane	821971	46.6	103.6

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

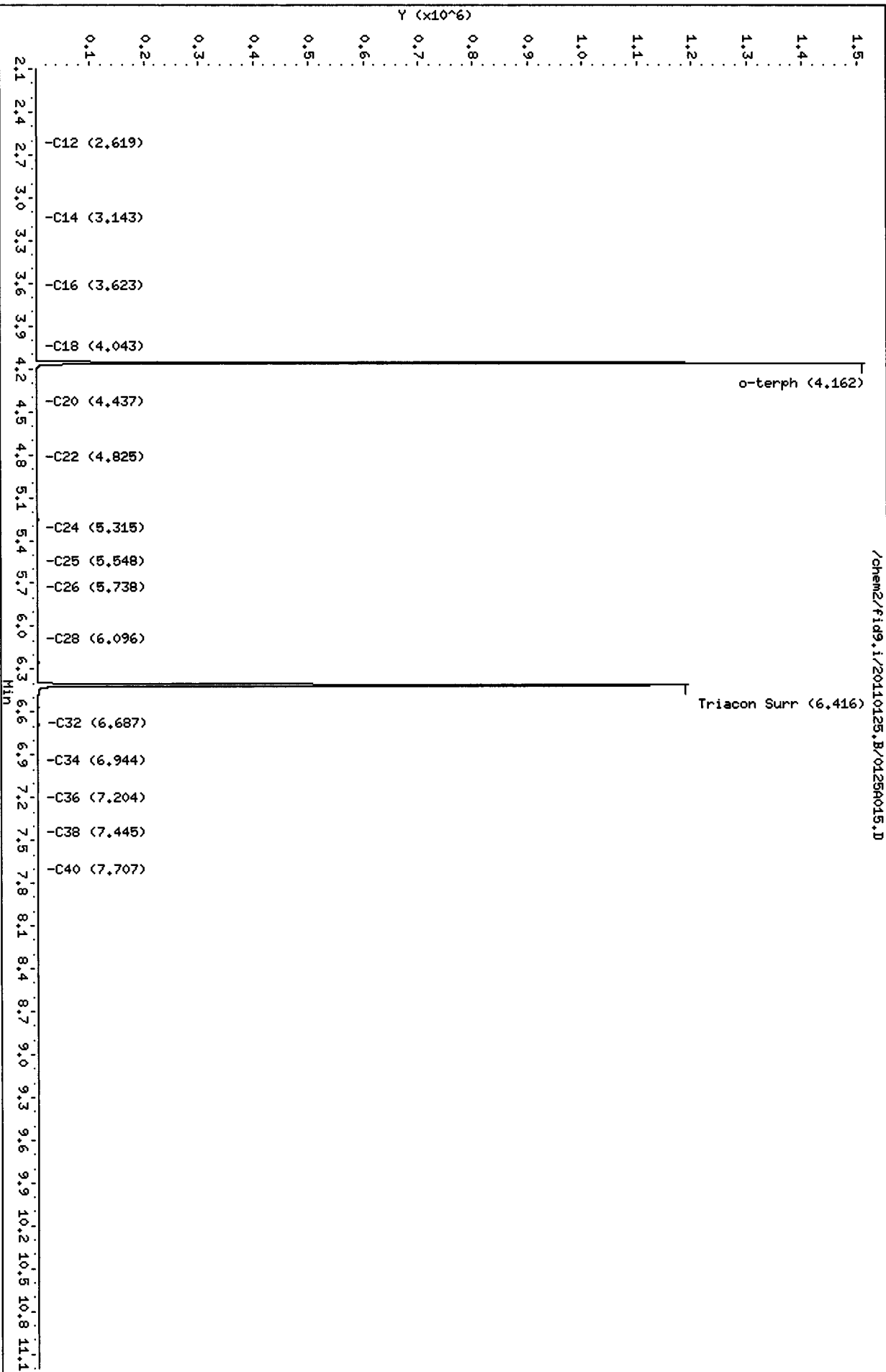
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Data File: /chem2/fid9.i/20110125.B/0125A015.D
Date : 25-JAN-2011 18:37
Client ID: HML3-012011
Sample Info: SF504

Column phase: RTX-1

Instrument: fid9.i
Operator: HS
Column diameter: 0.25

/chem2/fid9.i/20110125.B/0125A015.D



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A016.D
 Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 01/27/2011

ARI ID: SF50AMS
 Client ID: MW13-012011 MS
 Injection: 25-JAN-2011 18:59
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.323	-0.001	8468	6932	GAS (Tol-C12)	3843837	183
C8	1.351	0.046	4354	4781	DIESEL (C12-C24)	26846958	1185
C10	1.982	-0.004	140562	112524	M.OIL (C24-C38)	285180	22
C12	2.617	-0.003	370274	277117	AK-102 (C10-C25)	29953448	1173
C14	3.154	-0.001	639127	518763	AK-103 (C25-C36)	190198	22
C16	3.628	0.004	1286948	1185054			
C18	4.053	0.008	1102860	907662			
C20	4.434	0.002	752476	530628			
C22	4.821	-0.002	289763	222632			
C24	5.313	-0.005	78210	69140			
C25	5.535	-0.009	36502	39120			
C26	5.738	-0.006	15504	15456			
C28	6.096	-0.004	2507	2532			
C32	6.683	-0.007	111	37	JP-4 (Tol-C14)	8406367	513
C34	6.944	-0.008	42	23	BUNKERC (C10-C38)	30145027	3563
Filter Peak	----						
C36	7.205	0.004	52	11			
C38	7.439	0.000	127	81			
C40	7.710	0.004	248	218			
o-terph	4.167	0.002	1704745	1373614	JET-A (C10-C18)	22364686	1618
Triacon Surr	6.423	0.004	1177336	804531	JP8 (Tol-C16)	15451624	878

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1373614	64.1	142.5
Triacontane	804531	45.6	101.4

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

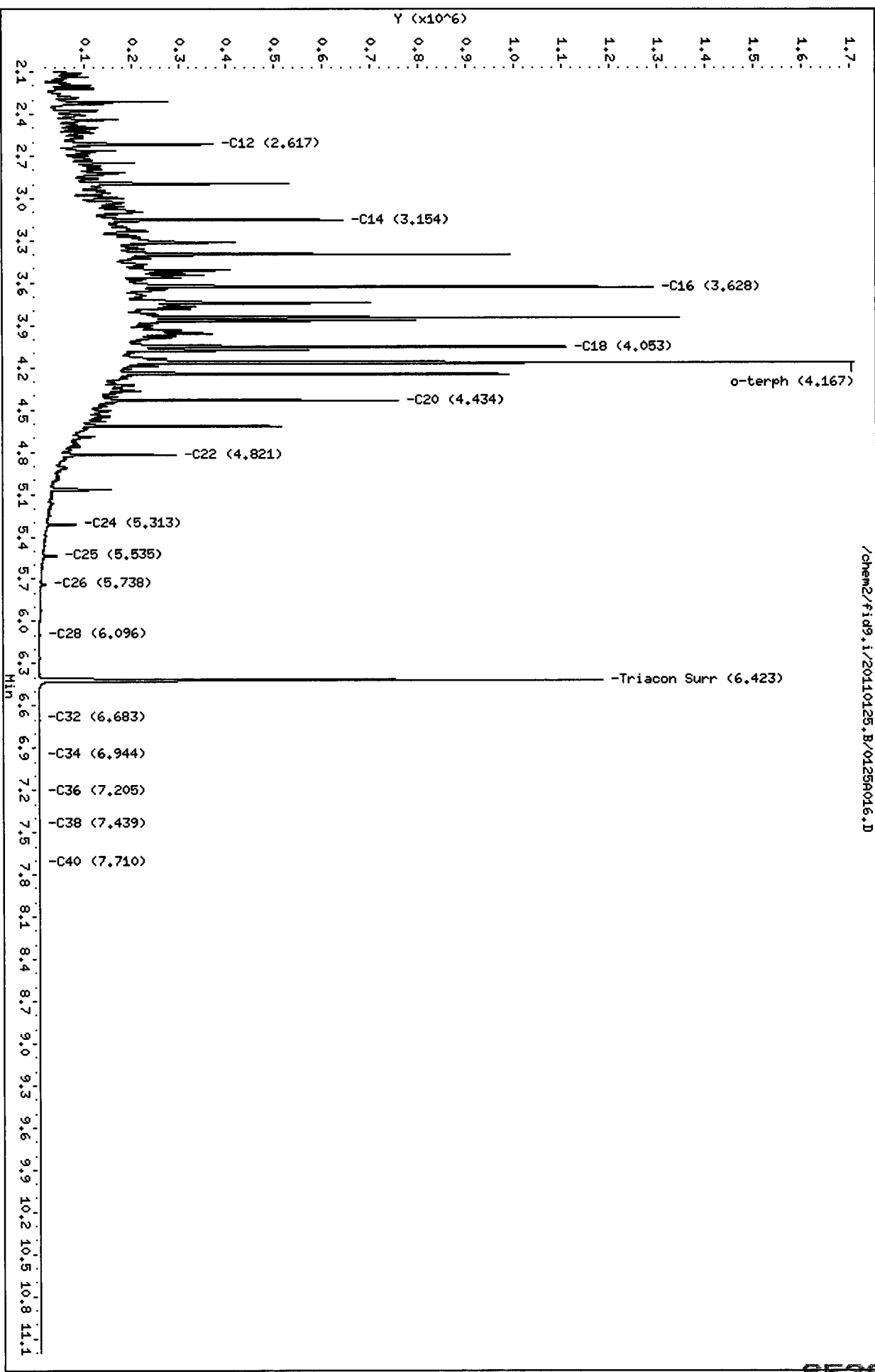
2/1/2011

Data File: /chem2/fid9.i/20110125.B/0125A016.D
Date : 25-JAN-2011 18:59
Client ID: MM13-012011 HS
Sample Info: SFS09HS

Column phase: RTX-1

Instrument: fid9.i
Operator: HS
Column diameter: 0.25

/chem2/fid9.i/20110125.B/0125A016.D



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A016.D
 Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 01/27/2011

ARI ID: SF50AMS
 Client ID: MW13-012011 MS
 Injection: 25-JAN-2011 18:59
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.323	-0.001	8468	6932	GAS (Tol-C12)	3843837	183
C8	1.351	0.046	4354	4781	DIESEL (C12-C24)	27412068	1210
C10	1.982	-0.004	140562	112524	M.OIL (C24-C38)	285180	22
C12	2.617	-0.003	370274	277117	AK-102 (C10-C25)	30518558	1196 M
C14	3.154	-0.001	639127	518763	AK-103 (C25-C36)	190198	22
C16	3.628	0.004	1286948	1185054			
C18	4.053	0.008	1102860	907662			
C20	4.434	0.002	752476	530628			
C22	4.821	-0.002	289763	222632			
C24	5.313	-0.005	78210	69140			
C25	5.535	-0.009	36502	39120			
C26	5.738	-0.006	15504	15456			
C28	6.096	-0.004	2507	2532			
C32	6.683	-0.007	111	37	JP-4 (Tol-C14)	8406367	513
C34	6.944	-0.008	42	23	BUNKERC (C10-C38)	30710136	3630 M
Filter Peak	----						
C36	7.205	0.004	52	11			
C38	7.439	0.000	127	81			
C40	7.710	-0.004	248	218			
o-terph	4.167	0.002	1461175	812705	JET-A (C10-C18)	22364686	1618
Triacon Surr	6.423	0.004	1177336	804531	JP8 (Tol-C16)	15451624	878

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	812705	37.9	84.3
Triacontane	804531	45.6	101.4

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110125.B/0125A016.D

Date : 25-JAN-2011 18:59

Client ID: HML3-012011 HS

Sample Info: SF50AHS

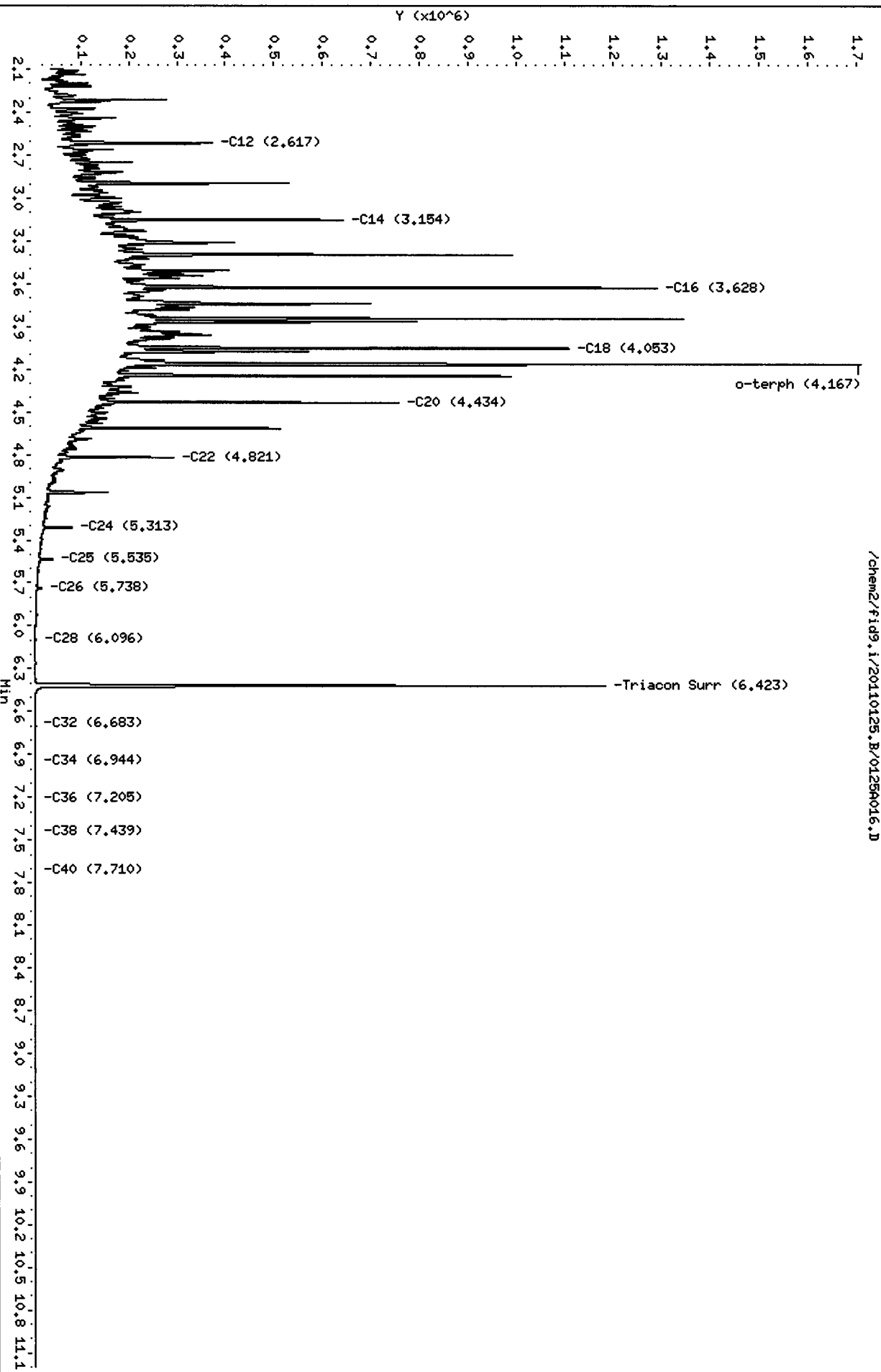
Column phase: RTX-1

Instrument: fid9.i

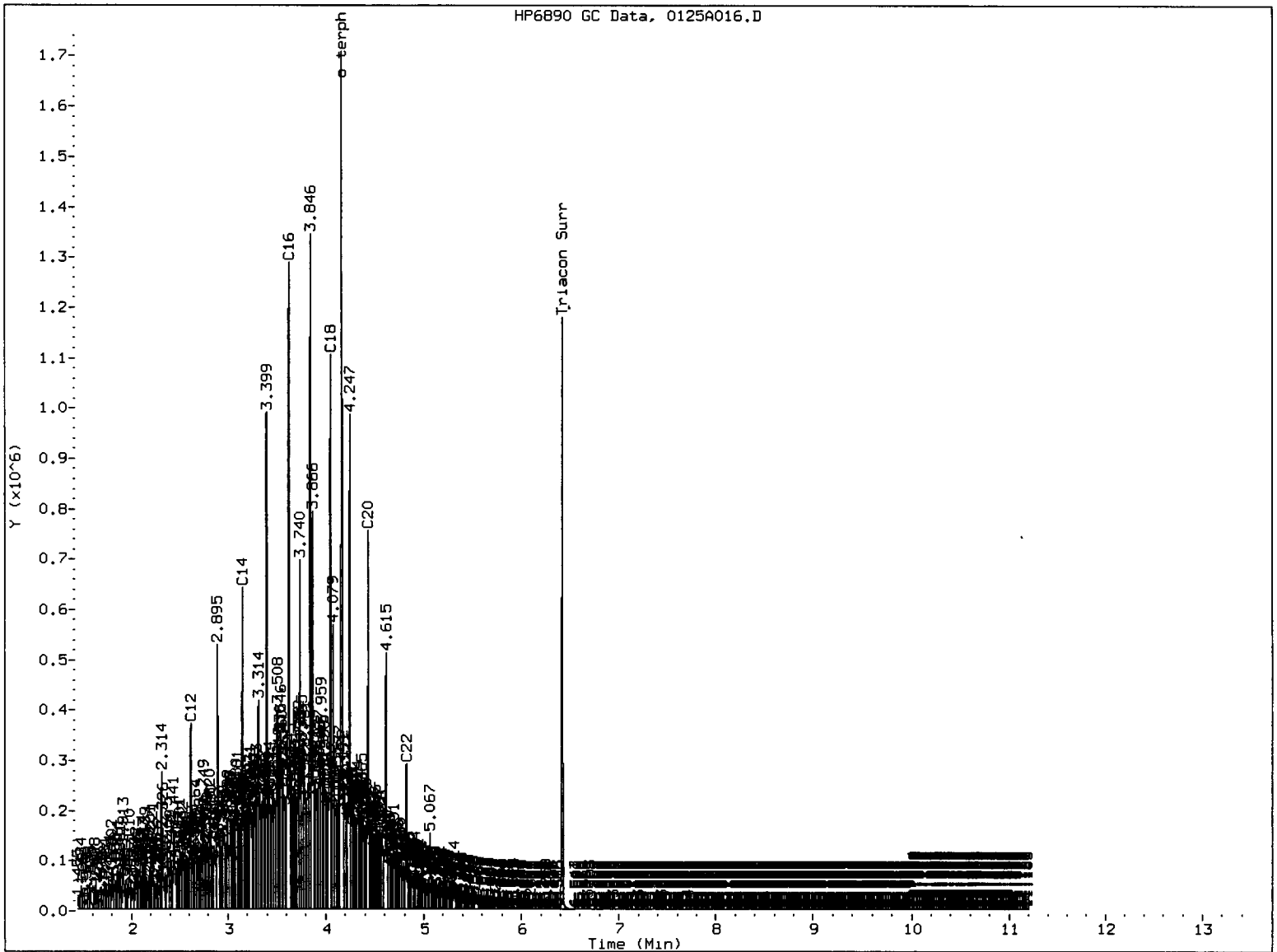
Operator: HS

Column diameter: 0.25

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HP6890 GC Data, 0125A016.D



MANUAL INTEGRATION

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

Analyst: *[Signature]* Date: *1/27/11*

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A017.D
Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 01/27/2011

ARI ID: SF50AMSD
Client ID: MW13-012011 MSD
Injection: 25-JAN-2011 19:20
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.336	0.011	7288	4794	GAS (Tol-C12)	3665380	174
C8	1.357	0.052	7138	6496	DIESEL (C12-C24)	26968701	1191
C10	1.986	0.000	130556	108315	M.OIL (C24-C38)	288983	22
C12	2.618	-0.002	352117	264059	AK-102 (C10-C25)	29903667	1172
C14	3.155	-0.001	664349	524627	AK-103 (C25-C36)	195217	23
C16	3.628	0.004	1284062	1202264			
C18	4.053	0.007	1082299	929917			
C20	4.435	0.002	776544	534013			
C22	4.821	-0.002	299740	244626			
C24	5.313	-0.006	79188	76458			
C25	5.550	0.006	11138	8471			
C26	5.739	-0.005	16006	16031			
C28	6.095	-0.005	2704	3582			
C32	6.694	0.004	1787	1517	JP-4 (Tol-C14)	8098226	494
C34	6.958	0.005	377	342	BUNKERC (C10-C38)	30101147	3558
Filter Peak	----						
C36	7.202	0.000	90	76			
C38	7.438	-0.001	158	58			
C40	7.703	-0.004	244	98			
o-terph	4.167	0.002	1900231	1428075	JET-A (C10-C18)	22212330	1607
Triacon Surr	6.420	0.000	1138192	856810	JP8 (Tol-C16)	15107979	859

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1428075	66.7	148.2
Triacontane	856810	48.6	108.0

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

MS
2/1/2011

Data File: /chem2/fid9.i/20110125.B/0125A017.D

Date: 25-JAN-2011 19:20

Client ID: MM13-012011 MSD

Sample Info: SF50AHSMD

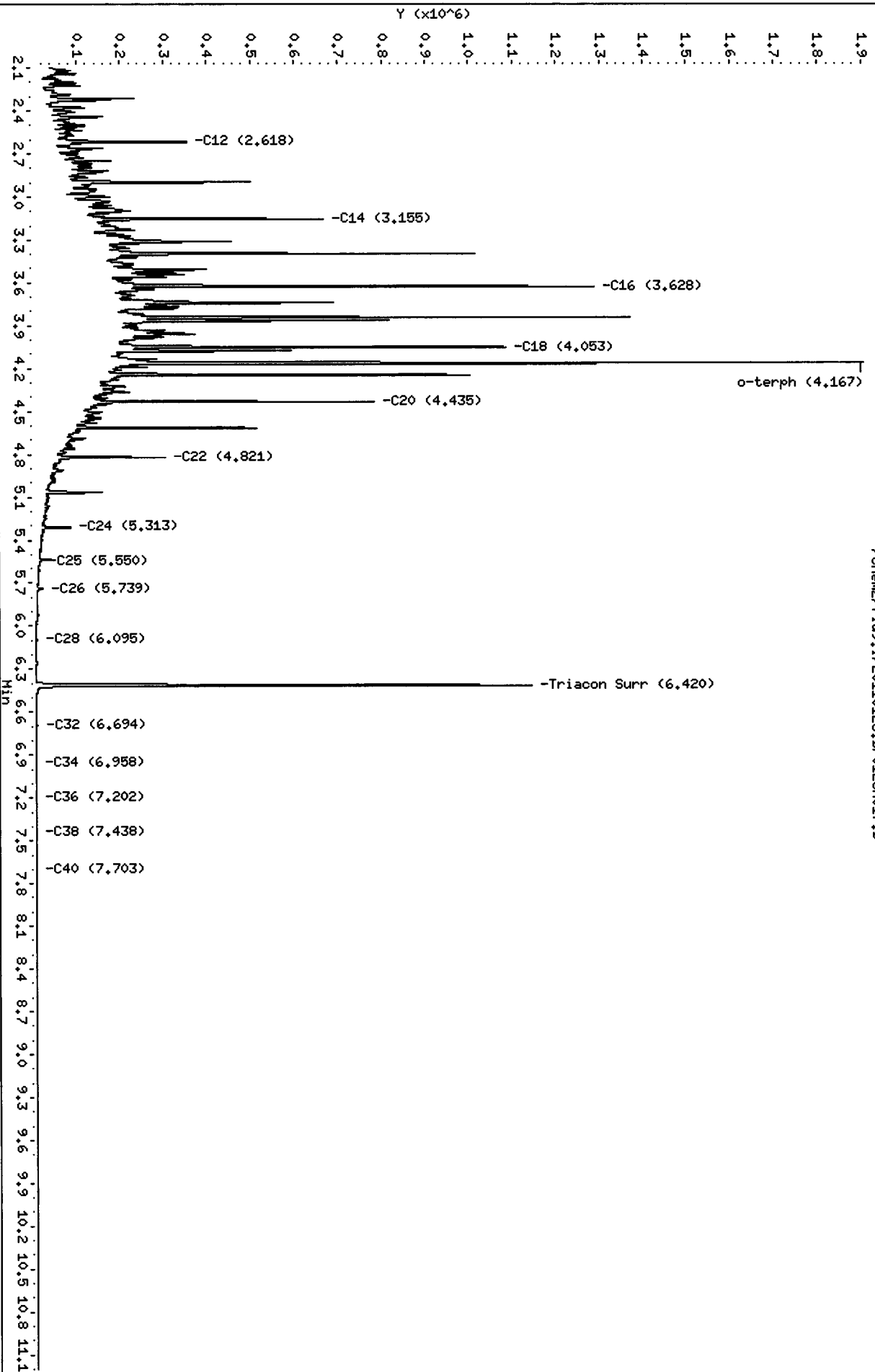
Column phase: RTX-1

Instrument: fid9.i

Operator: HS

Column diameter: 0.25

/chem2/fid9.i/20110125.B/0125A017.D



SF26 : 012011

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A017.D
 Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 01/27/2011

ARI ID: SF50AMSD
 Client ID: MW13-012011 MSD
 Injection: 25-JAN-2011 19:20
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.336	0.011	7288	4794	GAS (Tol-C12)	3665380	174
C8	1.357	0.052	7138	6496	DIESEL (C12-C24)	27535224	1216
C10	1.986	0.000	130556	108315	M.OIL (C24-C38)	288983	22
C12	2.618	-0.002	352117	264059	AK-102 (C10-C25)	30470190	1194 M
C14	3.155	-0.001	664349	524627	AK-103 (C25-C36)	195217	23
C16	3.628	0.004	1284062	1202264			
C18	4.053	0.007	1082299	929917			
C20	4.435	0.002	776544	534013			
C22	4.821	-0.002	299740	244626			
C24	5.313	-0.006	79188	76458			
C25	5.550	0.006	11138	8471			
C26	5.739	-0.005	16006	16031			
C28	6.095	-0.005	2704	3582			
C32	6.694	0.004	1787	1517	JP-4 (Tol-C14)	8098226	494
C34	6.958	0.005	377	342	BUNKERC (C10-C38)	30667671	3625 M
Filter Peak	----						
C36	7.202	0.000	90	76			
C38	7.438	-0.001	158	58			
C40	7.703	-0.004	244	98			
o-terph	4.167	0.002	1653763	865805	JET-A (C10-C18)	22212330	1607
Triacon Surr	6.420	0.000	1138192	856810	JP8 (Tol-C16)	15107979	859

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	865805	40.4	89.8
Triacontane	856810	48.6	108.0

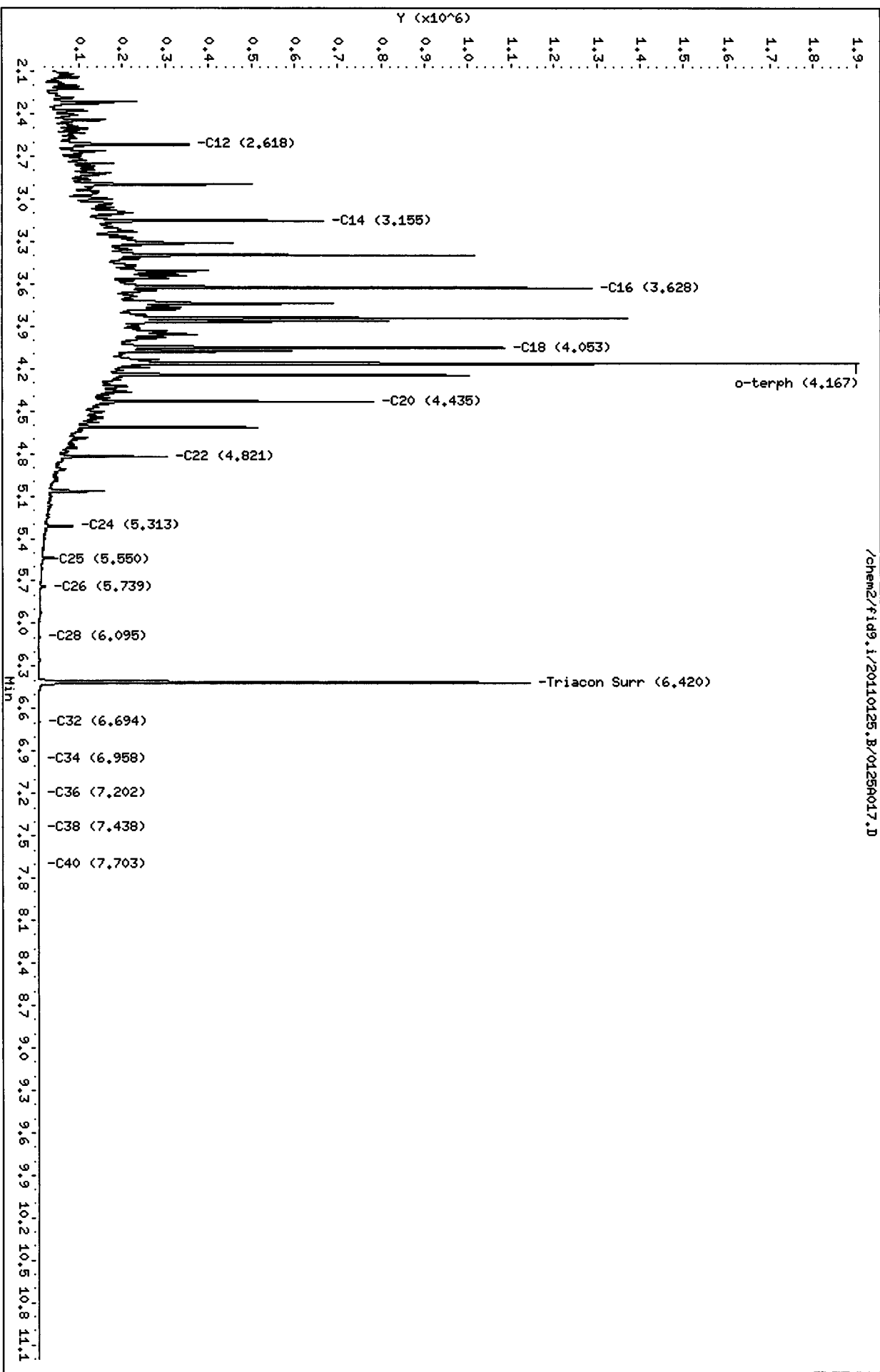
Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110125.B/0125A017.D
Date : 25-JAN-2011 19:20
Client ID: M413-012011 HSD
Sample Info: SFS0AHSD

Column phase: RTX-1

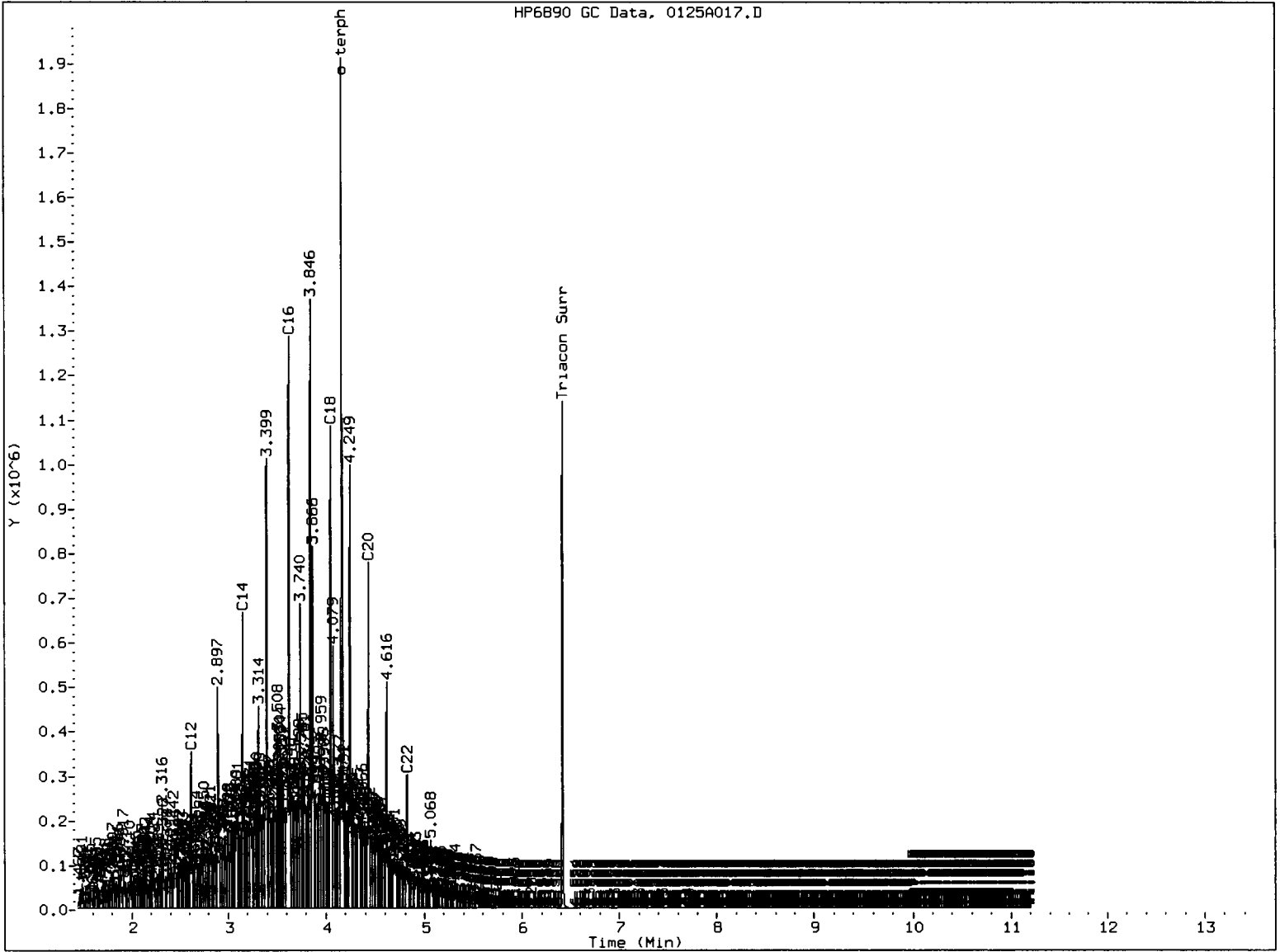
Instrument: fid9.i
Operator: HS
Column diameter: 0.25

/chem2/fid9.i/20110125.B/0125A017.D



012011 19:20 SFS

HP6890 GC Data, 0125A017.D



MANUAL INTEGRATION

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

Analyst: *[Signature]*

Date: 1/27/11

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A018.D
Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 01/27/2011

ARI ID: SF50B
Client ID: MW06-012011
Injection: 25-JAN-2011 19:42
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.344	0.020	3232	4611	GAS (Tol-C12)	99468	5
C8	1.372	0.068	2800	949	DIESEL (C12-C24)	423282	19
C10	1.991	0.005	1238	974	M.OIL (C24-C38)	30576	2
C12	2.625	0.005	1417	1436	AK-102 (C10-C25)	466353	18
C14	3.145	-0.010	1891	1944	AK-103 (C25-C36)	23080	3
C16	3.619	-0.005	4718	3616			
C18	4.042	-0.004	5872	4378			
C20	4.432	0.000	4311	2039			
C22	4.821	-0.001	1635	671			
C24	5.318	0.000	429	266			
C25	5.540	-0.004	212	91			
C26	5.743	-0.001	119	84			
C28	6.099	-0.001	426	395			
C32	6.707	0.017	1652	1808	JP-4 (Tol-C14)	133210	8
C34	6.953	0.000	302	161	BUNKERC (C10-C38)	495105	59
Filter Peak	----						
C36	7.210	0.009	320	223			
C38	7.434	-0.005	391	107			
C40	7.718	0.012	529	249			
o-terph	4.162	-0.004	1476835	778569	JET-A (C10-C18)	303365	22
Triacon Surr	6.426	0.007	1052080	746727	JP8 (Tol-C16)	219167	12

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	778569	36.4	80.8
Triacontane	746727	42.4	94.1

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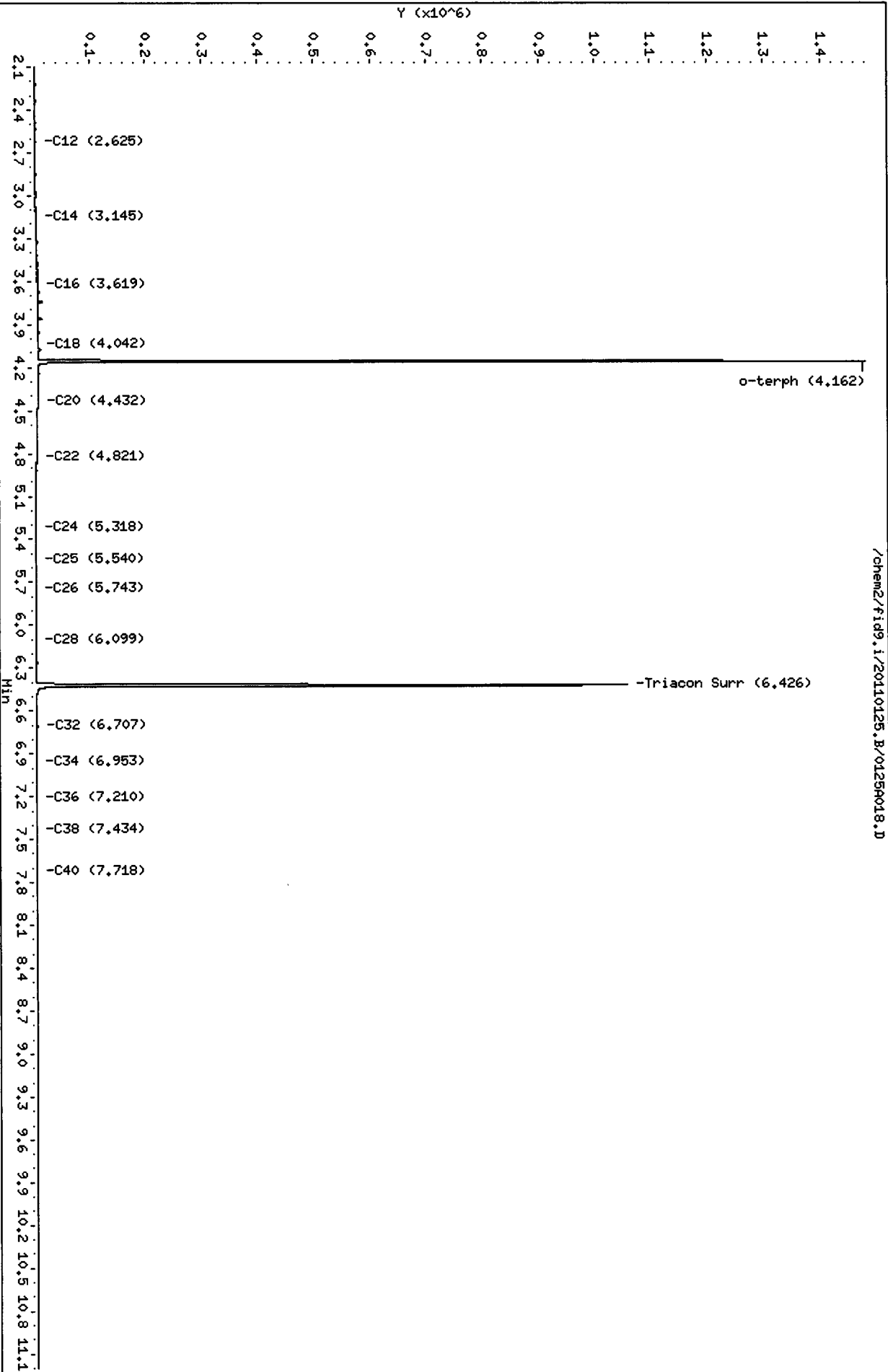
Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110125.B/0125A018.D
Date : 25-JAN-2011 19:42
Client ID: MK06-012011
Sample Info: SF508

Column phase: RTX-1

/chem2/fid9.i/20110125.B/0125A018.D

Instrument: fid9.i
Operator: HS
Column diameter: 0.25



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A019.D
 Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 01/27/2011

ARI ID: SF50C
 Client ID: MW12-012011
 Injection: 25-JAN-2011 20:03
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.370	0.046	3590	1141	GAS (Tol-C12)	81619	4
C8	----				DIESEL (C12-C24)	28407	1
C10	1.986	0.001	1338	1544	M.OIL (C24-C38)	33654	3
C12	2.617	-0.003	385	194	AK-102 (C10-C25)	51405	2
C14	3.153	-0.002	278	277	AK-103 (C25-C36)	25127	3
C16	3.624	0.000	329	282			
C18	4.045	-0.001	389	253			
C20	4.425	-0.007	122	78			
C22	4.827	0.004	121	108			
C24	5.316	-0.002	66	42			
C25	5.543	-0.001	95	31			
C26	5.743	-0.001	81	71			
C28	6.097	-0.003	472	390			
C32	6.685	-0.005	1789	2198	JP-4 (Tol-C14)	90568	6
C34	6.943	-0.010	717	926	BUNKERC (C10-C38)	84905	10
Filter Peak	----						
C36	7.201	0.000	464	216			
C38	7.443	0.004	858	1348			
C40	7.703	-0.003	676	586			
o-terph	4.164	-0.002	1577457	835197	JET-A (C10-C18)	44419	3
Triacon Surr	6.416	-0.003	1226531	824819	JP8 (Tol-C16)	96243	5

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	835197	39.0	86.7
Triacotane	824819	46.8	104.0

Handwritten signature

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110125.B/0125A019.D

Date: 25-JAN-2011 20:03

Client ID: MM12-012011

Sample Info: SF50C

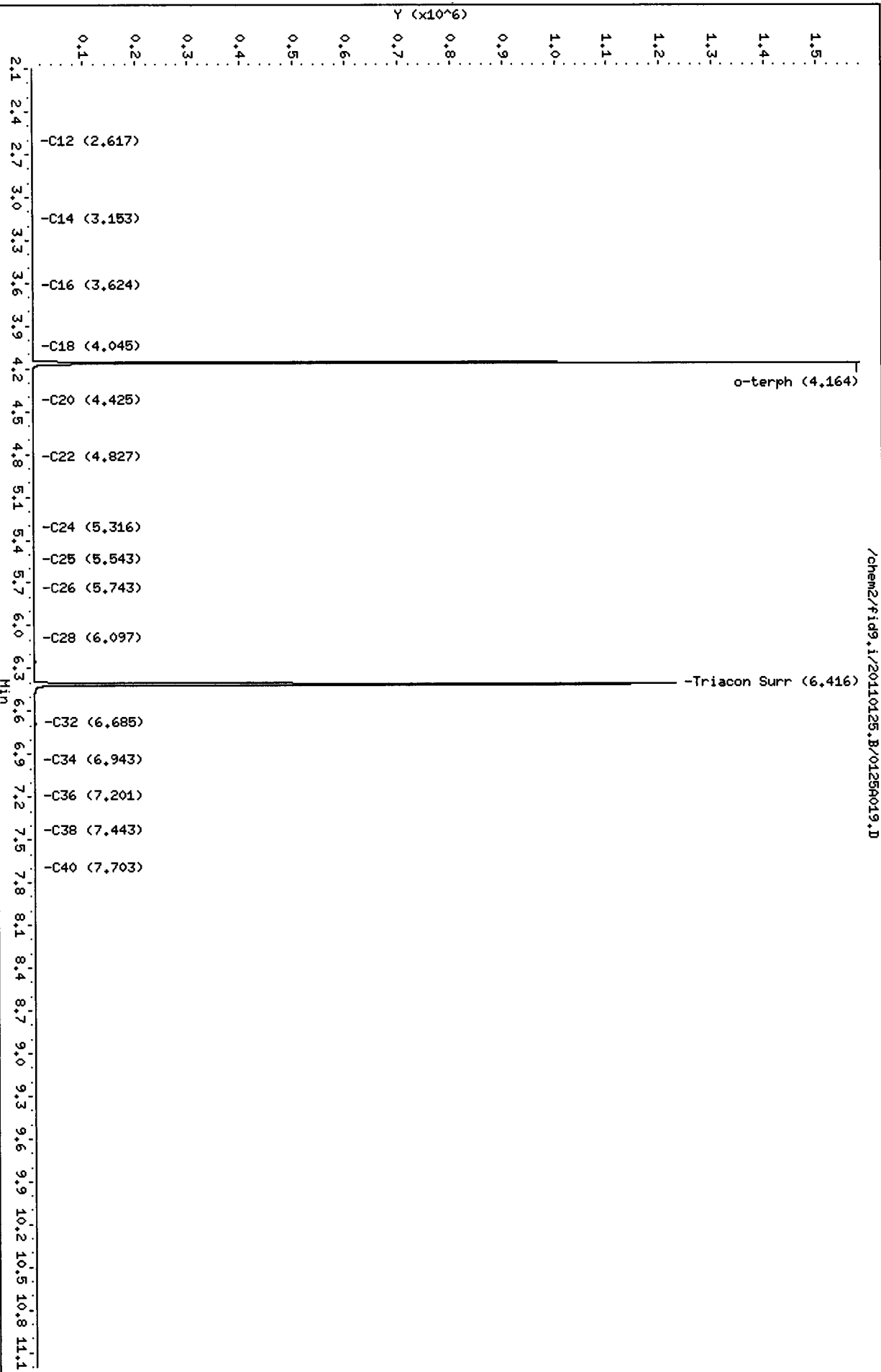
Column phase: RTX-1

Instrument: fid9.i

Operator: NS

Column diameter: 0.25

/chem2/fid9.i/20110125.B/0125A019.D



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A020.D
 Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 01/27/2011

ARI ID: SF50D
 Client ID: MW04-012011
 Injection: 25-JAN-2011 20:25
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.372	0.048	3237	3847	GAS (Tol-C12)	70237	3
C8	----				DIESEL (C12-C24)	21020	1
C10	1.989	0.004	1186	1350	M.OIL (C24-C38)	31907	2
C12	2.616	-0.004	318	299	AK-102 (C10-C25)	41801	2
C14	3.154	-0.001	225	279	AK-103 (C25-C36)	24137	3
C16	3.622	-0.001	251	238			
C18	4.043	-0.002	312	204			
C20	4.427	-0.005	86	20			
C22	4.825	0.002	104	83			
C24	5.319	0.001	75	76			
C25	5.541	-0.003	143	128			
C26	5.742	-0.002	85	82			
C28	6.096	-0.004	482	404			
C32	6.696	0.006	1731	1982	JP-4 (Tol-C14)	76716	5
C34	6.949	-0.004	356	127	BUNKERC (C10-C38)	73589	9
Filter Peak	----						
C36	7.204	0.002	428	216			
C38	7.439	0.000	533	104			
C40	7.702	-0.004	653	206			
o-terph	4.162	-0.003	1460492	794414	JET-A (C10-C18)	36777	3
Triacon Surr	6.420	0.001	1124460	792738	JP8 (Tol-C16)	80783	5

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	794414	37.1	82.4
Triacontane	792738	45.0	99.9

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Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110125.B/01250020.D

Date : 25-JAN-2011 20:25

Client ID: MM04-012011

Sample Info: SF50D

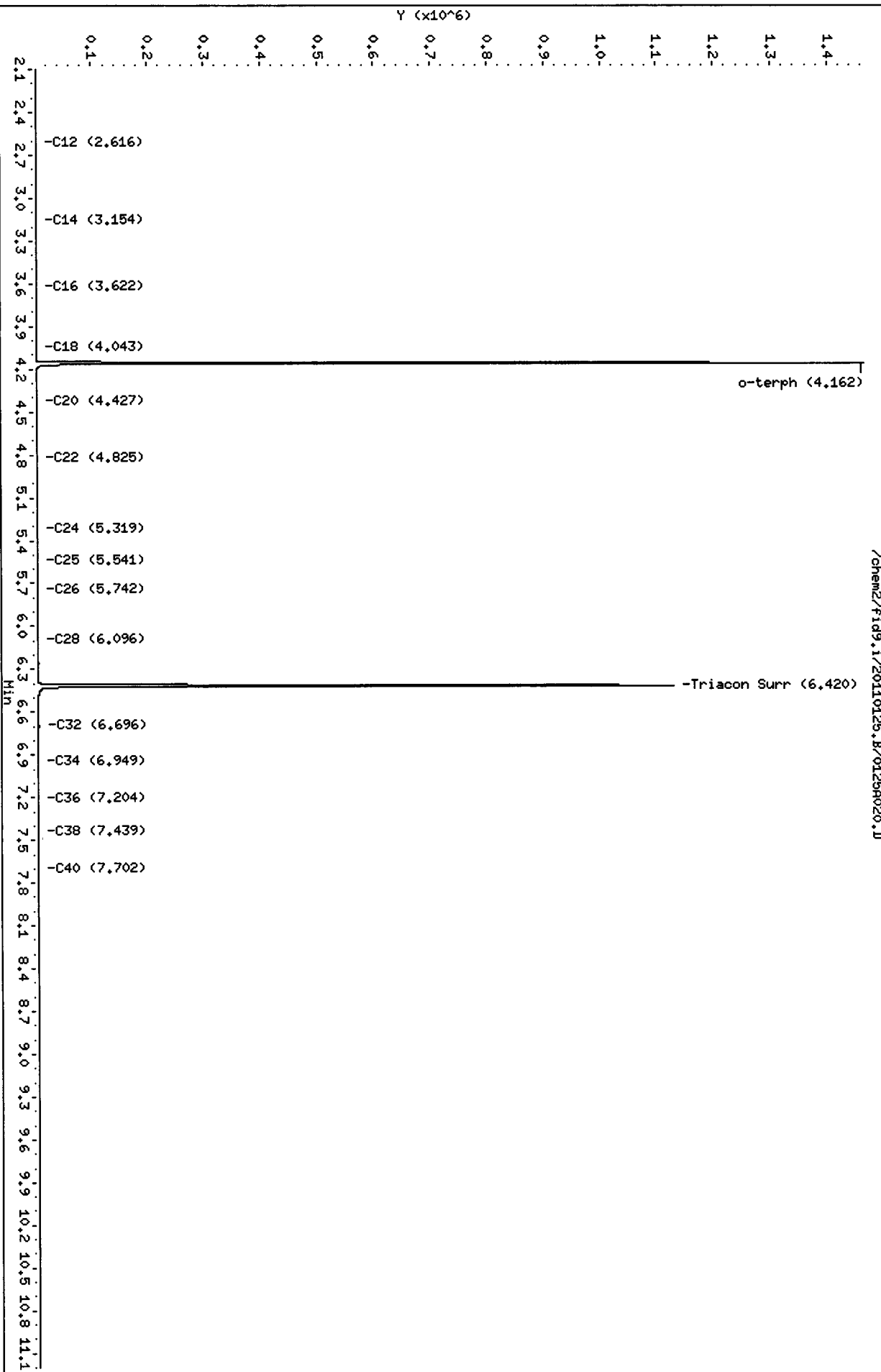
Column phase: RTX-1

Instrument: fid9.i

Operator: HS

Column diameter: 0.25

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Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A021.D
 Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 01/27/2011

ARI ID: SF50E
 Client ID: MW17-012011
 Injection: 25-JAN-2011 20:46
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.377	0.053	3464	1830	GAS (Tol-C12)	65436	3
C8	1.396	0.091	3475	4962	DIESEL (C12-C24)	15290	1
C10	1.985	0.000	1132	1415	M.OIL (C24-C38)	45848	3
C12	2.619	-0.002	240	78	AK-102 (C10-C25)	33222	1
C14	3.148	-0.008	111	81	AK-103 (C25-C36)	37866	4
C16	3.622	-0.002	142	96			
C18	4.042	-0.003	197	91			
C20	4.435	0.003	143	122			
C22	4.824	0.001	95	65			
C24	5.313	-0.005	79	63			
C25	5.541	-0.003	295	322			
C26	5.741	-0.003	182	178			
C28	6.097	-0.003	776	841			
C32	6.690	0.000	2163	2537	JP-4 (Tol-C14)	69836	4
C34	6.950	-0.003	727	1013	BUNKERC (C10-C38)	78739	9
Filter Peak	----						
C36	7.202	0.000	519	519			
C38	7.439	0.000	588	197			
C40	7.709	0.003	637	397			
o-terph	4.161	-0.004	1452978	806588	JET-A (C10-C18)	27832	2
Triacon Surr	6.418	-0.002	1175809	804640	JP8 (Tol-C16)	72114	4

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	806588	37.7	83.7
Triacontane	804640	45.6	101.4

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110125.B/0125A021.D

Date: 25-JAN-2011 20:46

Client ID: MM17-012011

Sample Info: SF50E

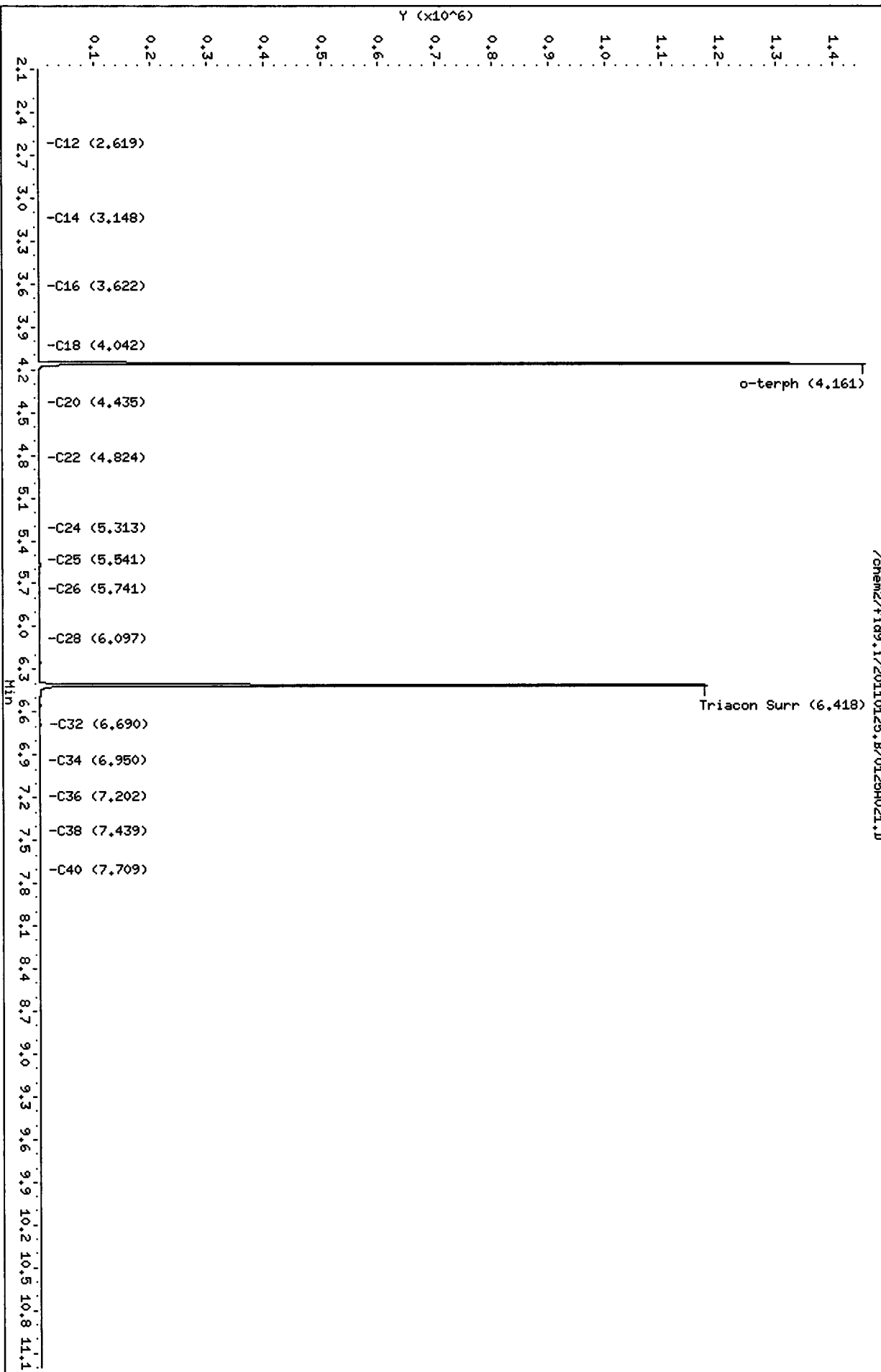
Page 1

Column phase: RTX-1

Instrument: fid9.i

Operator: HS

Column diameter: 0.25



SF26 : 01268

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A022.D
 Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 01/27/2011

ARI ID: SF50F
 Client ID: MW03-012011
 Injection: 25-JAN-2011 21:08
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.374	0.050	3534	564	GAS (Tol-C12)	71225	3
C8	1.377	0.073	3550	2048	DIESEL (C12-C24)	24261	1
C10	1.989	0.003	1191	1567	M.OIL (C24-C38)	35607	3
C12	2.623	0.003	374	256	AK-102 (C10-C25)	47792	2
C14	3.152	-0.003	260	225	AK-103 (C25-C36)	27365	3
C16	3.623	0.000	280	245			
C18	4.043	-0.003	249	150			
C20	4.439	0.007	162	156			
C22	4.827	0.004	91	73			
C24	5.320	0.002	62	50			
C25	5.551	0.007	196	161			
C26	5.742	-0.002	62	47			
C28	6.096	-0.004	444	366			
C32	6.688	-0.002	1787	1882	JP-4 (Tol-C14)	79577	5
C34	6.945	-0.007	1328	1637	BUNKERC (C10-C38)	83300	10
Filter Peak	----						
C36	7.199	-0.003	467	402			
C38	7.446	0.008	1438	1905			
C40	7.706	0.000	682	479			
o-terph	4.162	-0.003	1383477	777397	JET-A (C10-C18)	42318	3
Triacon Surr	6.417	-0.002	1133362	769284	JP8 (Tol-C16)	84626	5

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	777397	36.3	80.7
Triacontane	769284	43.6	97.0



Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110125.B/0125A022.D

Date : 25-JAN-2011 21:08

Client ID: MM03-012011

Sample Info: SF50F

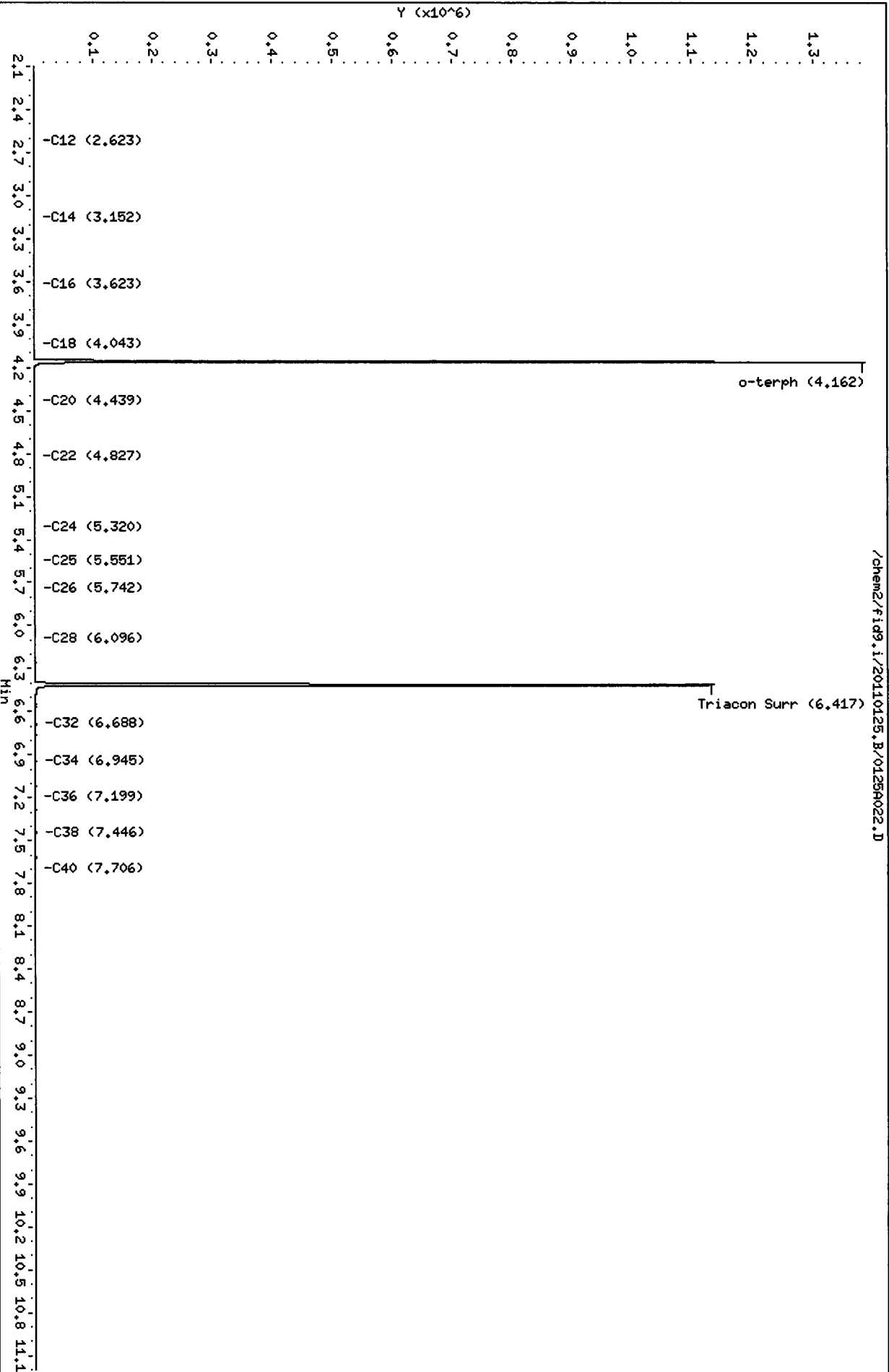
Column phase: RTX-1

Instrument: fid9.i

Operator: HS

Column diameter: 0.25

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09 01 2011 21:08

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A023.D
 Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 02/02/2011

ARI ID: DIESEL#3
 Client ID: LORA LAKES APTS. RI
 Injection: 25-JAN-2011 21:29
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.330	0.006	5021	5519	GAS (Tol-C12)	964104	46
C8	1.357	0.053	4441	4224	DIESEL (C12-C24)	5640807	249
C10	1.986	0.000	34819	27780	M.OIL (C24-C38)	69548	5
C12	2.621	0.000	82424	57905	AK-102 (C10-C25)	6355669	249 M
C14	3.154	-0.001	167602	104549	AK-103 (C25-C36)	45799	5
C16	3.622	-0.002	304176	163026			
C18	4.042	-0.004	274092	175427			
C20	4.429	-0.004	155686	101066			
C22	4.820	-0.003	55698	38931			
C24	5.315	-0.003	14940	13454			
C25	5.538	-0.006	6927	5670			
C26	5.741	-0.003	2764	2626			
C28	6.098	-0.002	305	284			
C32	6.689	-0.001	65	40	JP-4 (Tol-C14)	1970792	120
C34	6.944	-0.009	1257	1192	BUNKERC (C10-C38)	6407448	757 M
Filter Peak	----						
C36	7.194	-0.008	261	137			
C38	7.444	0.005	1182	1551			
C40	7.706	-0.001	512	370			
o-terph	4.163	-0.002	1678593	952518	JET-A (C10-C18)	4779137	346
Triacon Surr	6.410	-0.010	271	242	JP8 (Tol-C16)	3450061	196

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	952518	44.5	98.8
Triacontane	242	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110125.B/0125A023.D

Date : 25-JAN-2011 21:29

Client ID: LORA LAKES APTS. RI

Sample Info: DIESEL#3

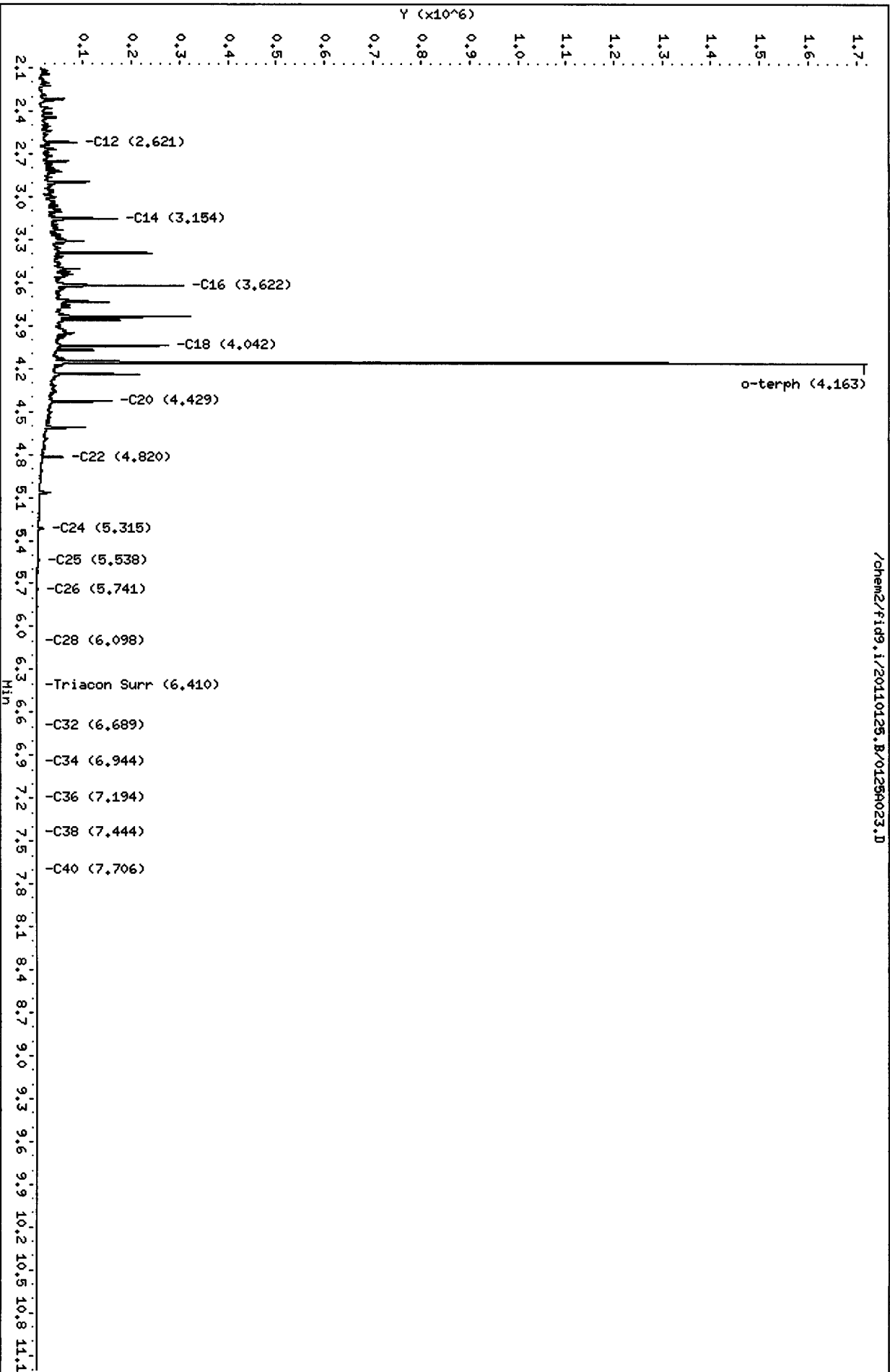
Column phase: RTX-1

Instrument: fid9.i

Operator: HS

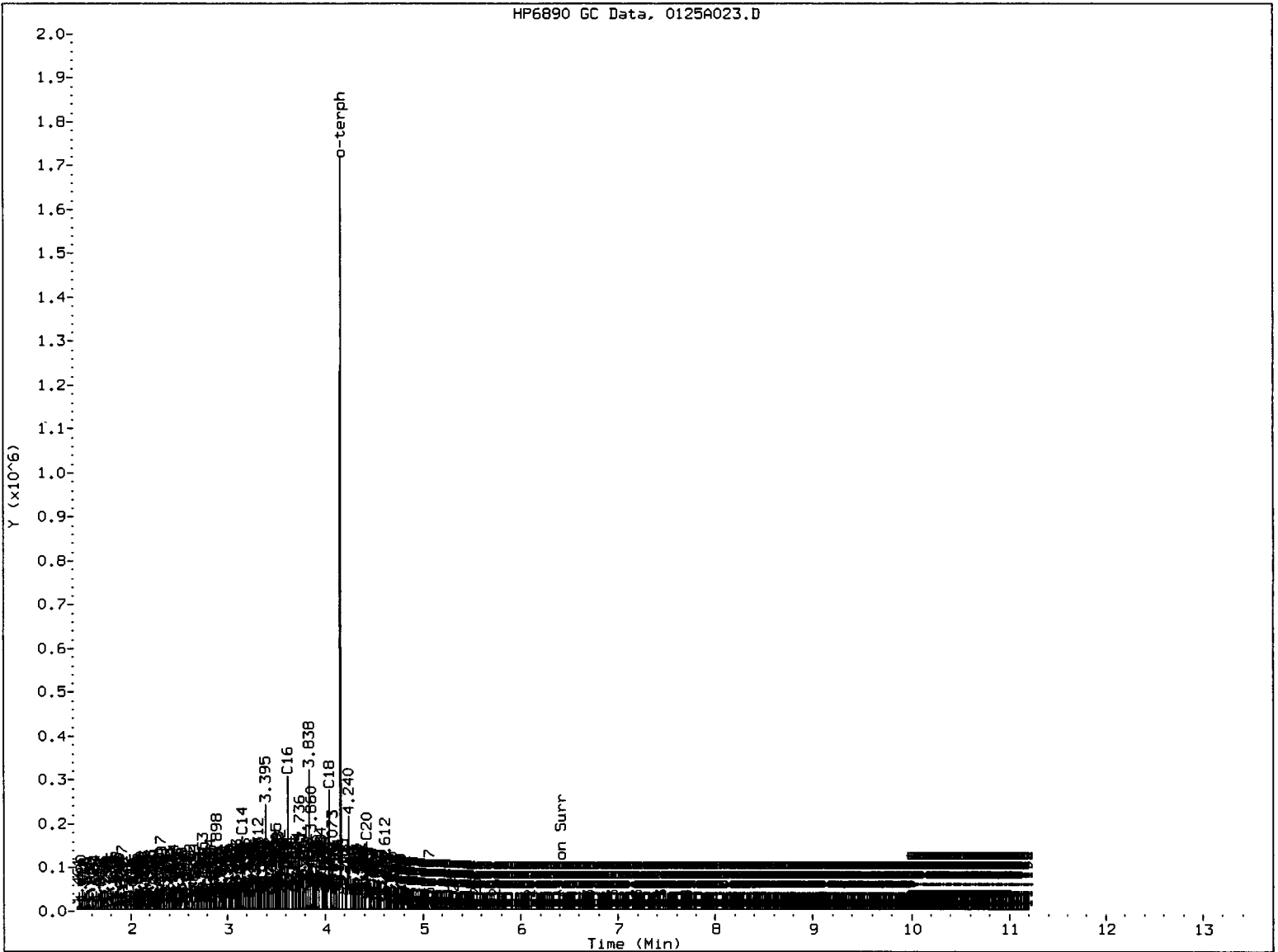
Column diameter: 0.25

Page 1



0125A023.D

HP6890 GC Data, 0125A023.D



MANUAL INTEGRATION

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

Analyst: *[Signature]*

Date: *[Signature]*

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A024.D
 Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 02/02/2011

ARI ID: MOIL#3
 Client ID: LORA LAKES APTS. RI
 Injection: 25-JAN-2011 21:50
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.355	0.031	3056	1567	GAS (Tol-C12)	50497	2
C8	1.367	0.063	3033	1205	DIESEL (C12-C24)	786489	35
C10	1.984	-0.001	1127	1622	M.OIL (C24-C38)	7111654	536
C12	2.622	0.002	1196	1108	AK-102 (C10-C25)	992825	39
C14	3.150	-0.005	125	136	AK-103 (C25-C36)	6143364	723 M
C16	3.634	0.010	2147	2248			
C18	4.049	0.004	782	511			
C20	4.427	-0.005	5023	4626			
C22	4.818	-0.005	15630	16045			
C24	5.320	0.002	22830	8690			
C25	5.544	0.000	36261	42463			
C26	5.741	-0.003	38342	21412			
C28	6.105	0.005	64019	94640			
C32	6.696	0.006	77039	26810	JP-4 (Tol-C14)	57138	3
C34	6.952	-0.001	79084	35426	BUNKERC (C10-C38)	7912856	935 M
Filter Peak	----						
C36	7.206	0.005	70707	39378			
C38	7.436	-0.003	55837	49699			
C40	7.708	0.002	28130	20220			
o-terph	4.165	0.000	1175	1085	JET-A (C10-C18)	45247	3
Triacon Surr	6.419	0.000	1253905	921178	JP8 (Tol-C16)	62533	4

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1085	0.1	0.1
Triacontane	921178	52.3	116.1

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110125.B/0125A024.D

Date: 25-JAN-2011 21:50

Client ID: LORA LAKES APTS, RI

Sample Info: M01L#3

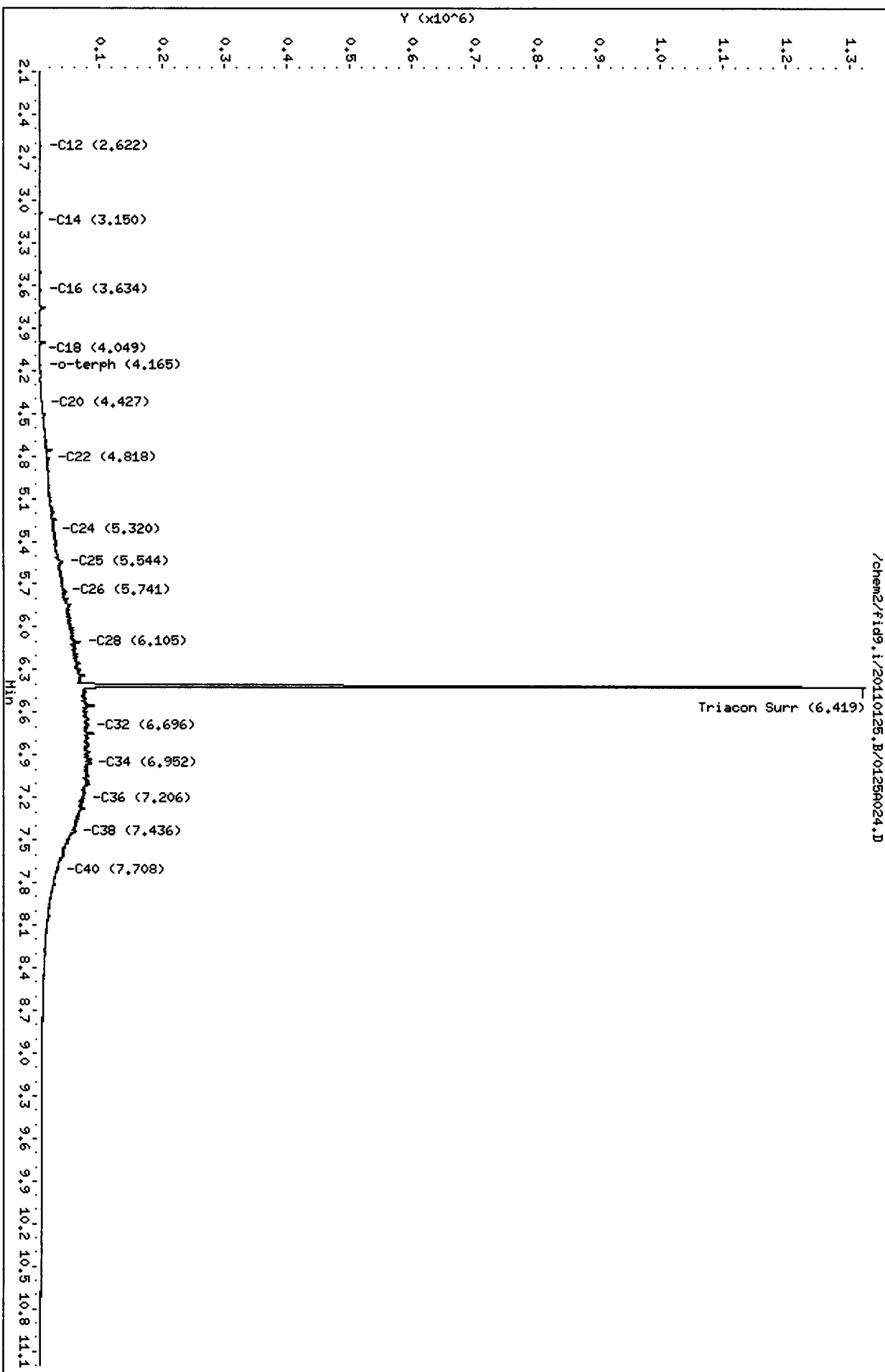
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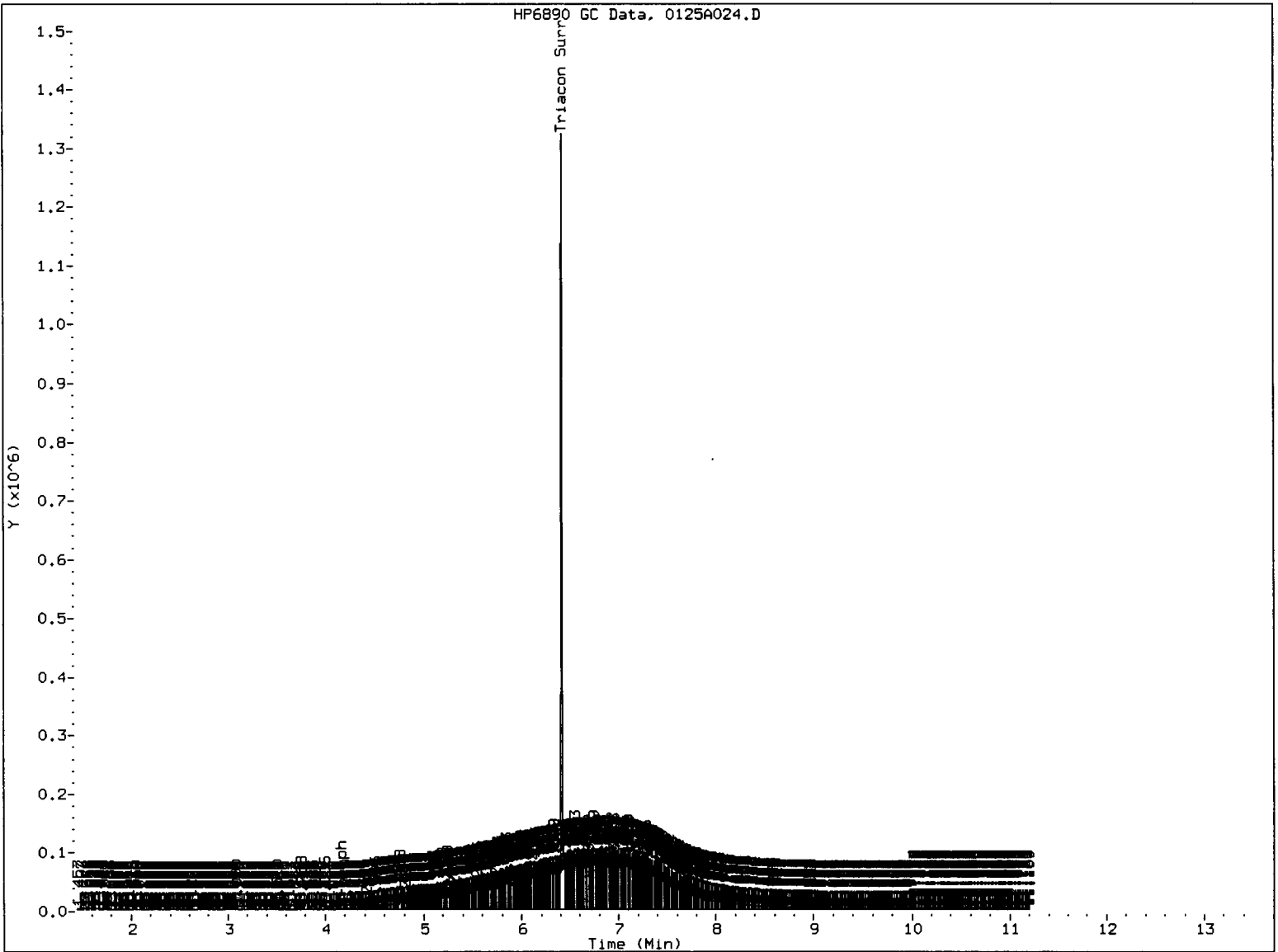
Instrument: fid9.i

Operator: HS

Column diameter: 0.25

/chem2/fid9.i/20110125.B/0125A024.D





MANUAL INTEGRATION

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

Analyst: *[Signature]*

Date: *[Signature]*

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A025.D
 Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 01/27/2011

ARI ID: SF76A
 Client ID: MW-15-012111
 Injection: 25-JAN-2011 22:12
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.359	0.034	3130	2142	GAS (Tol-C12)	72670	3
C8	1.398	0.093	9181	12534	DIESEL (C12-C24)	50459	2
C10	1.988	0.003	1003	1517	M.OIL (C24-C38)	326120	25
C12	2.624	0.004	196	98	AK-102 (C10-C25)	77647	3
C14	3.150	-0.006	77	43	AK-103 (C25-C36)	289465	34
C16	3.618	-0.006	168	118			
C18	4.043	-0.003	424	269			
C20	4.427	-0.005	887	1039			
C22	4.822	-0.001	638	459			
C24	5.316	-0.002	1144	1127			
C25	5.547	0.003	2585	3430			
C26	5.742	-0.002	2307	1369			
C28	6.096	-0.004	4431	4669			
C32	6.686	-0.004	5720	6175	JP-4 (Tol-C14)	75790	5
C34	6.961	0.008	3011	1773	BUNKERC (C10-C38)	395068	47
Filter Peak	----						
C36	7.196	-0.006	2369	2469			
C38	7.442	0.003	2794	5295			
C40	7.699	-0.007	1230	1335			
o-terph	4.163	-0.003	1532763	821484	JET-A (C10-C18)	30101	2
Triacon Surr	6.417	-0.003	1193278	843897	JP8 (Tol-C16)	78382	4

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	821484	38.4	85.2
Triacontane	843897	47.9	106.4

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

MS

Data File: /chem2/fid9.i/20110125.B/0125A025.D

Date: 25-JAN-2011 22:12

Client ID: MM-15-012111

Sample Info: SF76A

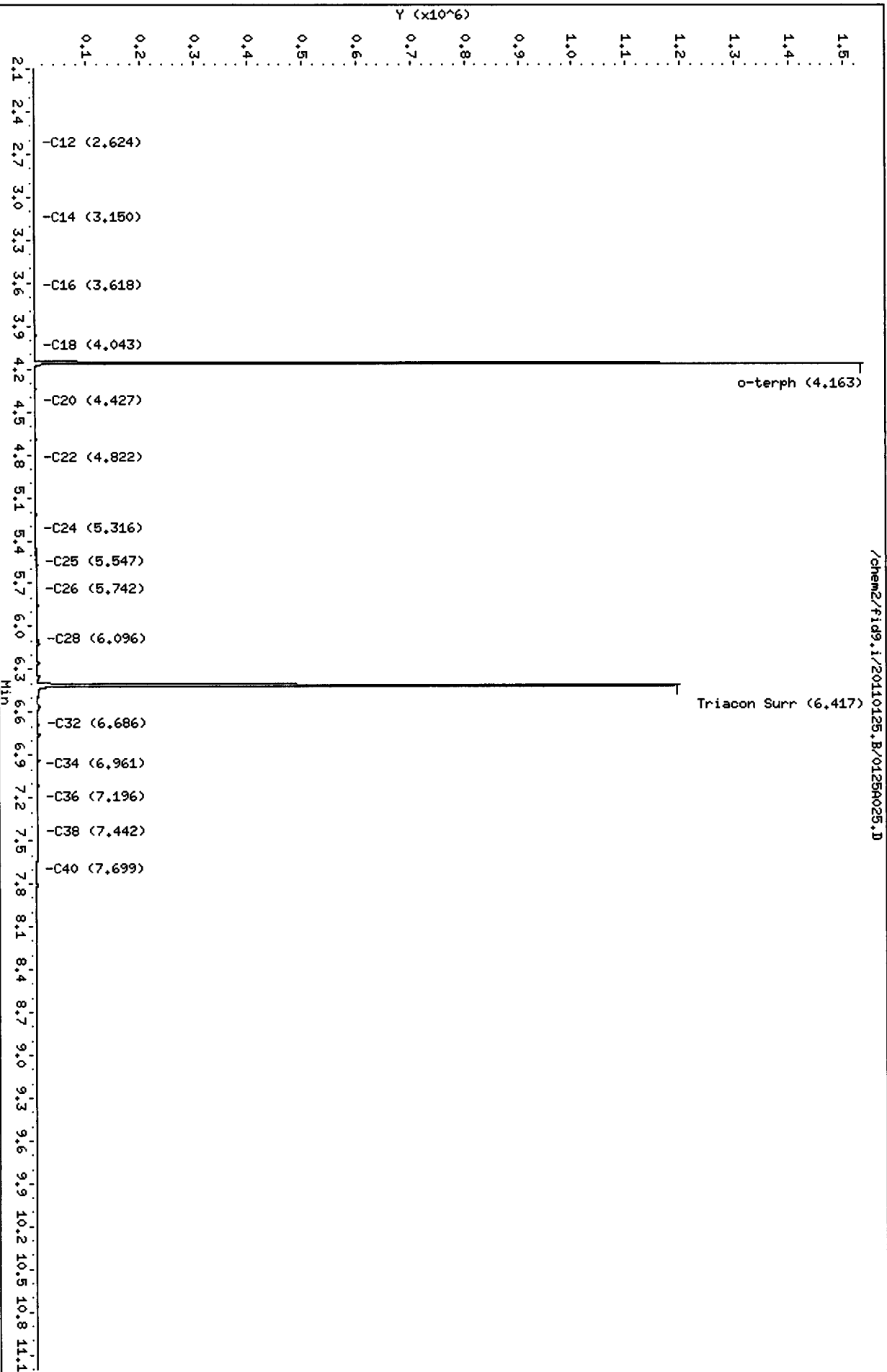
Column phase: RTX-1

Instrument: fid9.i

Operator: NS

Column diameter: 0.25

Page 1



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Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A026.D
Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 01/27/2011

ARI ID: SF76B
Client ID: MW-05-012111
Injection: 25-JAN-2011 22:33
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.366	0.042	2992	1192	GAS (Tol-C12)	68914	3
C8	1.375	0.070	3013	1019	DIESEL (C12-C24)	20290	1
C10	1.987	0.002	1158	1323	M.OIL (C24-C38)	35816	3
C12	2.623	0.003	332	282	AK-102 (C10-C25)	41900	2
C14	3.149	-0.006	204	174	AK-103 (C25-C36)	27651	3
C16	3.623	0.000	161	81			
C18	4.043	-0.002	297	210			
C20	4.427	-0.005	116	29			
C22	4.823	0.000	110	104			
C24	5.317	-0.001	106	79			
C25	5.540	-0.004	169	198			
C26	5.739	-0.005	166	139			
C28	6.094	-0.006	621	523			
C32	6.687	-0.003	2112	2147	JP-4 (Tol-C14)	76201	5
C34	6.950	-0.003	876	1375	BUNKERC (C10-C38)	77586	9
Filter Peak	----						
C36	7.204	0.003	552	629			
C38	7.438	-0.001	589	196			
C40	7.708	0.002	662	262			
o-terph	4.161	-0.004	1398357	755882	JET-A (C10-C18)	36513	3
Triacon Surr	6.415	-0.004	1082271	764883	JP8 (Tol-C16)	80618	5

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	755882	35.3	78.4
Triacontane	764883	43.4	96.4

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

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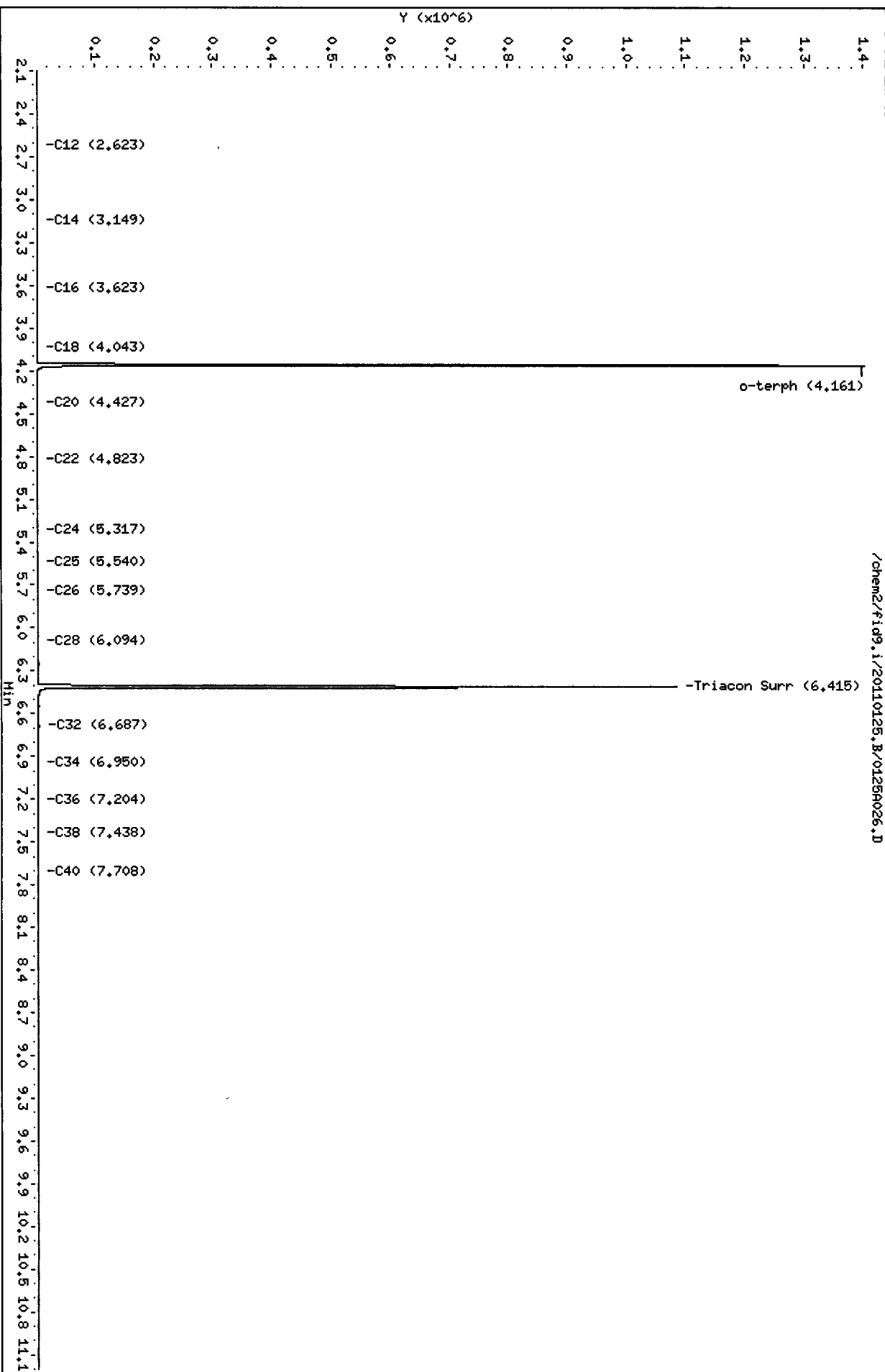
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Operator: HS

Column diameter: 0.25

Column phase: RTX-1

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Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A027.D
Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 01/27/2011

ARI ID: SF76C
Client ID: MW-16-012111
Injection: 25-JAN-2011 22:54
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.380	0.055	4871	3067	GAS (Tol-C12)	88349	4
C8	----				DIESEL (C12-C24)	37802	2
C10	1.988	0.002	1308	2353	M.OIL (C24-C38)	270164	20
C12	2.622	0.002	310	212	AK-102 (C10-C25)	69623	3
C14	3.149	-0.007	147	174	AK-103 (C25-C36)	240603	28
C16	3.623	-0.001	72	62			
C18	4.043	-0.003	290	158			
C20	4.435	0.003	367	317			
C22	4.825	0.002	490	441			
C24	5.322	0.003	891	380			
C25	5.540	-0.004	1465	1654			
C26	5.739	-0.005	1924	1536			
C28	6.096	-0.004	3807	4313			
C32	6.687	-0.003	4770	7216	JP-4 (Tol-C14)	93124	6
C34	6.958	0.005	2387	2093	BUNKERC (C10-C38)	332120	39
Filter Peak	----						
C36	7.207	0.006	1831	1617			
C38	7.439	0.000	1451	601			
C40	7.703	-0.004	975	693			
o-terph	4.161	-0.005	1432985	781694	JET-A (C10-C18)	33081	2
Triacon Surr	6.417	-0.002	1123000	794356	JP8 (Tol-C16)	95674	5

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	781694	36.5	81.1
Triacontane	794356	45.1	100.1

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110125.B/0125A027.D

Date: 25-JAN-2011 22:54

Client ID: MM-16-012111

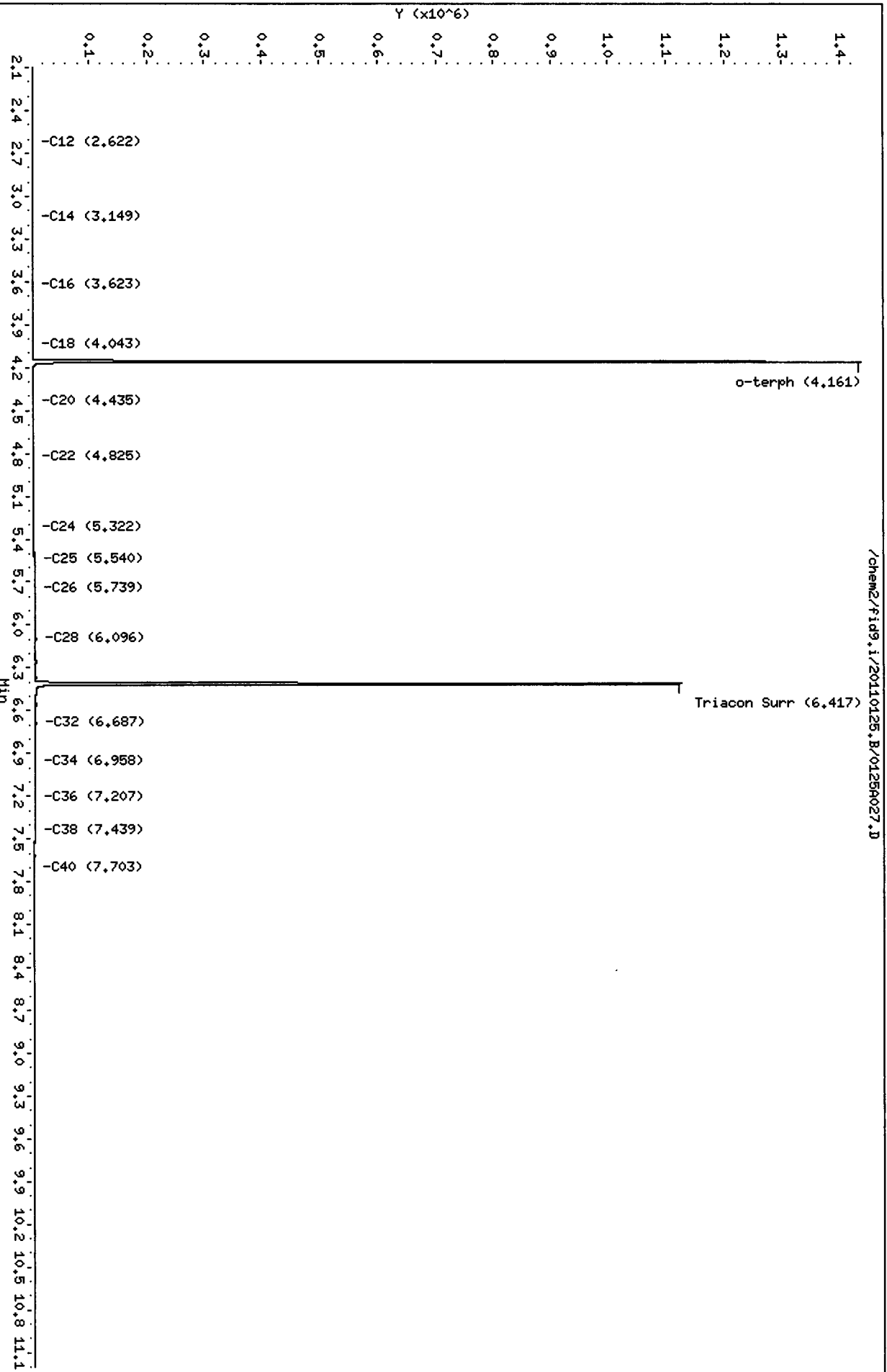
Sample Info: SF76C

Column phase: RTX-1

Instrument: fid9.i

Operator: HS

Column diameter: 0.25



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Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A028.D
Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 01/27/2011

ARI ID: SF76D
Client ID: MW-02-012111
Injection: 25-JAN-2011 23:16
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.372	0.048	2924	523	GAS (Tol-C12)	68880	3
C8	1.377	0.072	2925	1106	DIESEL (C12-C24)	19650	1
C10	1.988	0.002	1268	1468	M.OIL (C24-C38)	33158	2
C12	2.623	0.003	305	83	AK-102 (C10-C25)	39615	2
C14	3.152	-0.003	216	218	AK-103 (C25-C36)	25568	3
C16	3.622	-0.002	171	156			
C18	4.042	-0.003	271	187			
C20	4.430	-0.002	111	25			
C22	4.831	0.008	126	119			
C24	5.321	0.003	96	90			
C25	5.544	0.000	215	232			
C26	5.744	0.000	176	147			
C28	6.097	-0.003	670	526			
C32	6.689	-0.001	1909	2346	JP-4 (Tol-C14)	75494	5
C34	6.947	-0.006	624	1039	BUNKERC (C10-C38)	72613	9
Filter Peak	----						
C36	7.199	-0.003	483	777			
C38	7.445	0.007	807	1362			
C40	7.706	0.000	661	353			
o-terph	4.162	-0.003	1479990	804762	JET-A (C10-C18)	33679	2
Triacon Surr	6.418	-0.001	1152542	810108	JP8 (Tol-C16)	79515	5

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	804762	37.6	83.5
Triacontane	810108	46.0	102.1

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

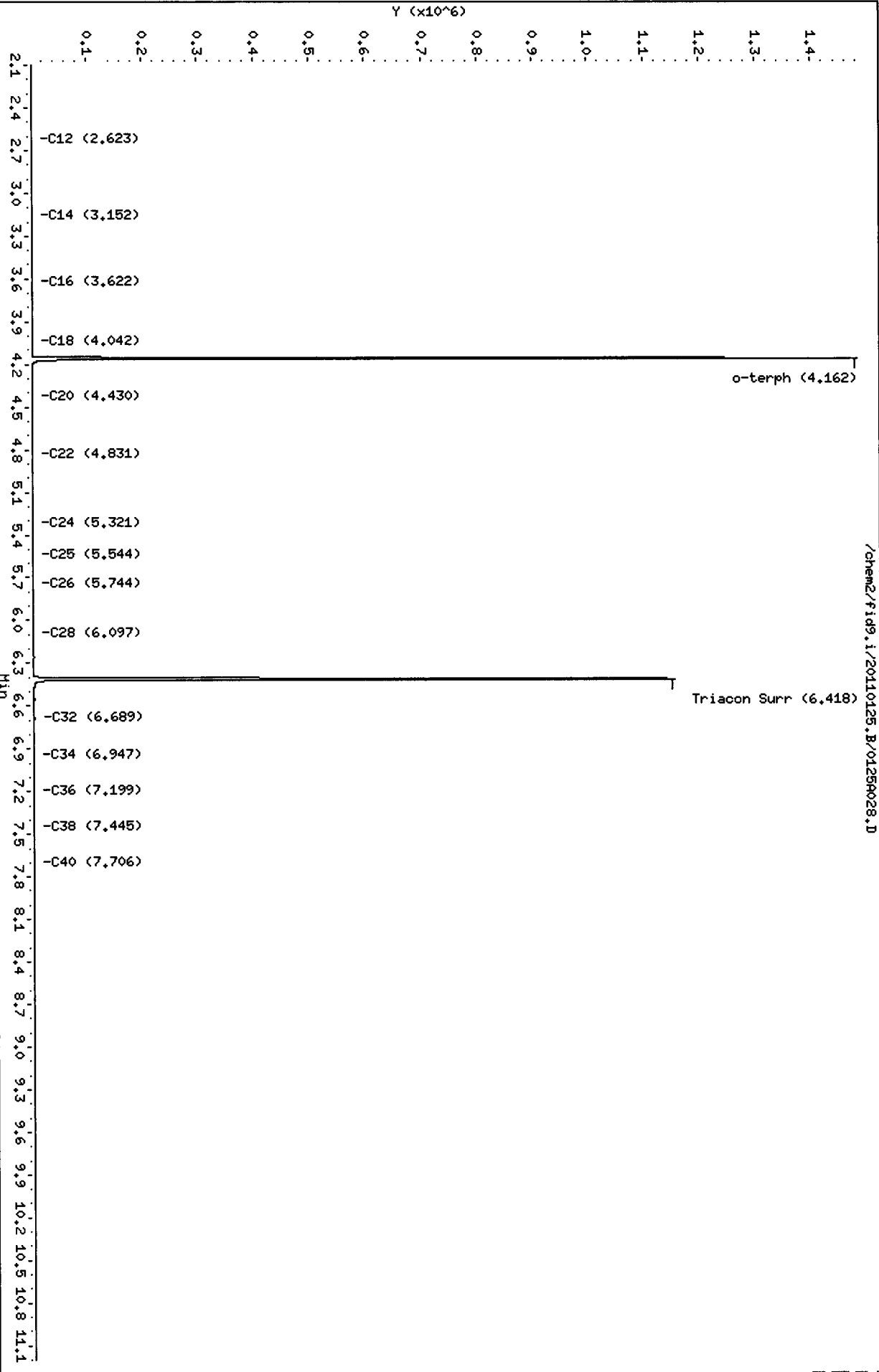
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Date : 25-JAN-2011 23:16
Client ID: MM-02-012111
Sample Info: SF76D

Column phase: RTX-1

Instrument: fid9.i
Operator: MS
Column diameter: 0.25

/chem2/fid9.i/20110125.B/01250028.D



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A029.D
 Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 01/27/2011

ARI ID: SF76E
 Client ID: MW-09-012111
 Injection: 25-JAN-2011 23:37
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.376	0.052	3058	1987	GAS (Tol-C12)	66602	3
C8	1.401	0.096	2981	6695	DIESEL (C12-C24)	18038	1
C10	1.980	-0.005	893	247	M.OIL (C24-C38)	30545	2
C12	2.625	0.005	319	154	AK-102 (C10-C25)	39335	2
C14	3.154	-0.001	229	238	AK-103 (C25-C36)	22998	3
C16	3.622	-0.001	158	102			
C18	4.043	-0.003	222	169			
C20	4.438	0.006	162	215			
C22	4.820	-0.003	76	28			
C24	5.313	-0.005	53	42			
C25	5.547	0.004	80	61			
C26	5.738	-0.006	46	16			
C28	6.097	-0.003	406	313			
C32	6.689	-0.001	1582	2144	JP-4 (Tol-C14)	73394	4
C34	6.948	-0.005	683	1169	BUNKERC (C10-C38)	69751	8
Filter Peak	----						
C36	7.197	-0.005	441	305			
C38	7.433	-0.006	558	110			
C40	7.707	0.001	645	101			
o-terph	4.161	-0.005	1381452	747944	JET-A (C10-C18)	34436	2
Triacon Surr	6.417	-0.002	1126696	757417	JP8 (Tol-C16)	77104	4

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	747944	34.9	77.6
Triacontane	757417	43.0	95.5

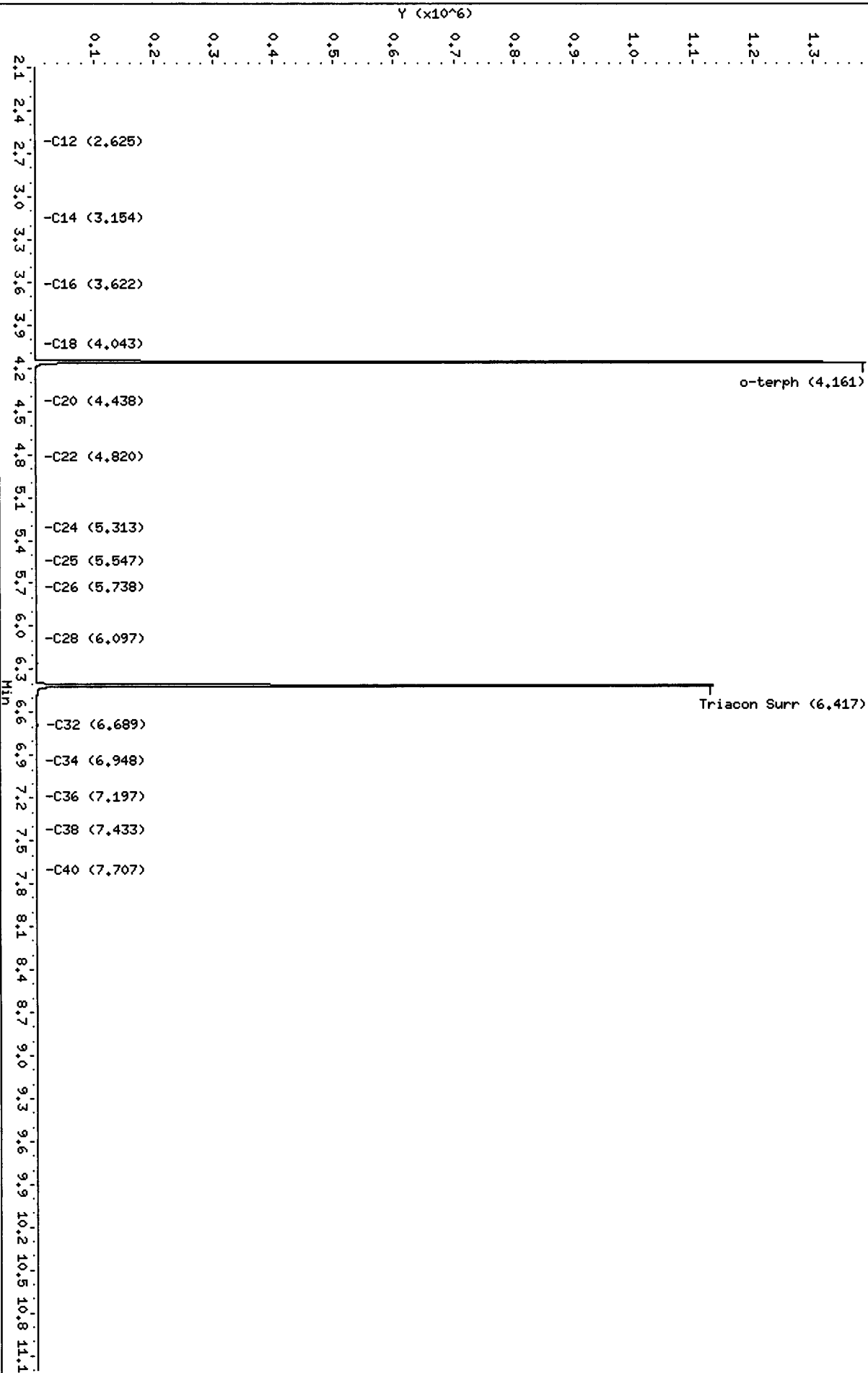
Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110125.B/0125A029.D
Date : 25-JAN-2011 23:37
Client ID: MM-09-012111
Sample Info: SF76E

Column phase: RTX-1

Instrument: fid9.i
Operator: HS
Column diameter: 0.25

/chem2/fid9.i/20110125.B/0125A029.D



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A030.D
 Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 01/27/2011

ARI ID: SF76F
 Client ID: MW-08-012111
 Injection: 25-JAN-2011 23:59
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.418	0.094	3022	5040	GAS (Tol-C12)	75065	4
C8	----				DIESEL (C12-C24)	21204	1
C10	1.990	0.004	1259	1865	M.OIL (C24-C38)	29992	2
C12	2.622	0.001	364	99	AK-102 (C10-C25)	43533	2
C14	3.153	-0.002	275	246	AK-103 (C25-C36)	22460	3
C16	3.623	-0.001	180	123			
C18	4.044	-0.002	208	115			
C20	4.438	0.005	170	206			
C22	4.826	0.003	107	112			
C24	5.321	0.003	68	53			
C25	5.541	-0.003	121	132			
C26	5.741	-0.003	73	48			
C28	6.098	-0.003	457	384			
C32	6.689	-0.001	1607	2222	JP-4 (Tol-C14)	83076	5
C34	6.949	-0.004	622	835	BUNKERC (C10-C38)	73411	9
Filter Peak	----						
C36	7.200	-0.002	436	85			
C38	7.431	-0.008	545	150			
C40	7.706	-0.001	636	214			
o-terph	4.161	-0.005	1387611	747370	JET-A (C10-C18)	38008	3
Triacon Surr	6.417	-0.003	1085193	750272	JP8 (Tol-C16)	87822	5

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	747370	34.9	77.5
Triacontane	750272	42.6	94.6

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110125.B/0125A030.D

Date: 25-JAN-2011 23:59

Client ID: MH-08-012111

Sample Info: SF76F

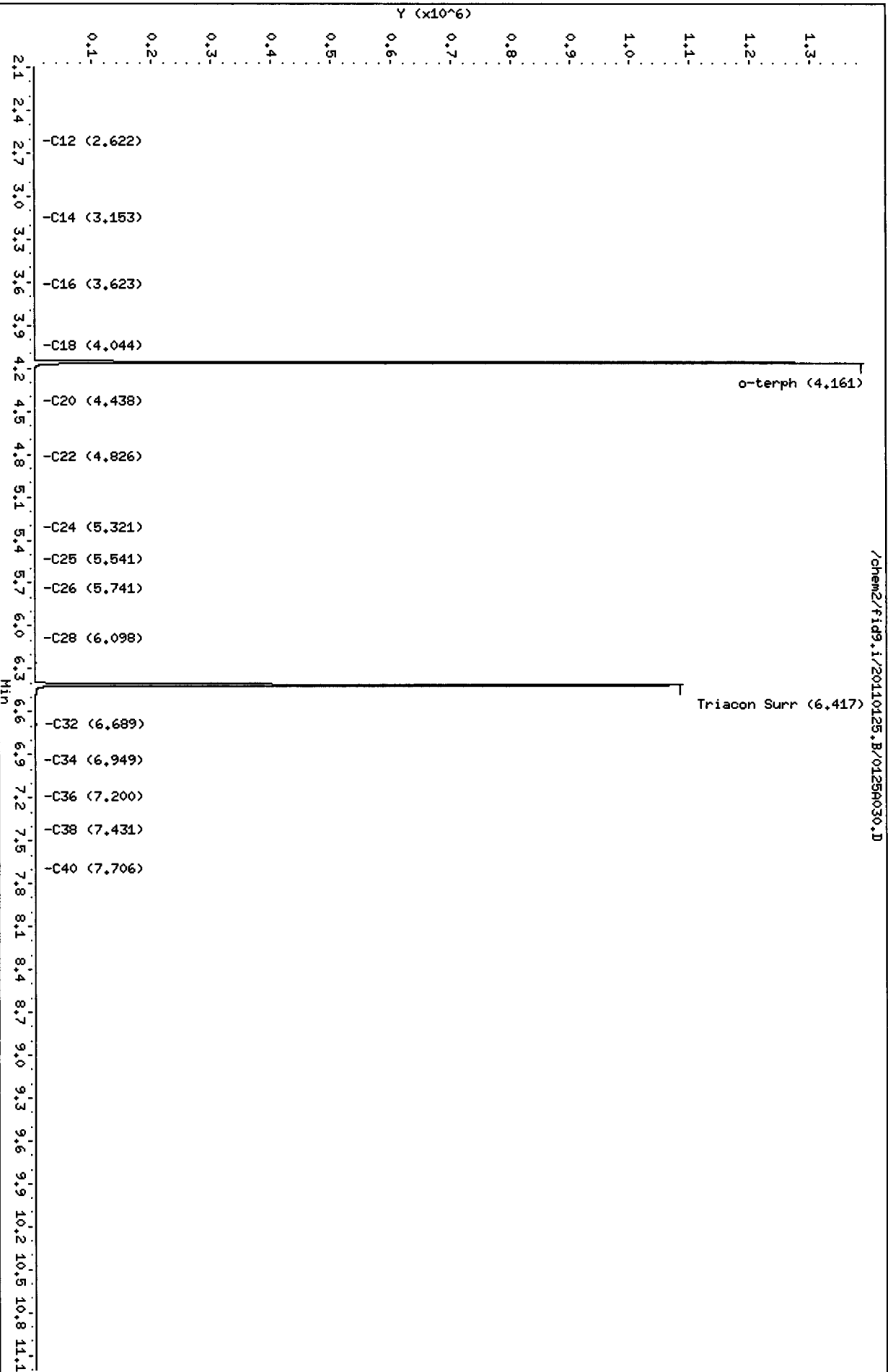
Column phase: RTX-1

Instrument: fid9.i

Operator: HS

Column diameter: 0.25

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Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A031.D
Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 01/27/2011

ARI ID: SF76G
Client ID: MW-01-012111
Injection: 26-JAN-2011 00:20
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.350	0.026	3107	3493	GAS (Tol-C12)	562984	27
C8	----				DIESEL (C12-C24)	969841	43
C10	1.981	-0.005	10216	11325	M.OIL (C24-C38)	1593038	120
C12	2.622	0.002	2694	2556	AK-102 (C10-C25)	1336702	52
C14	3.165	0.010	8194	4576	AK-103 (C25-C36)	1407892	166
C16	3.627	0.004	6439	6023			
C18	4.040	-0.005	7799	4728			
C20	4.427	-0.005	14312	18876			
C22	4.821	-0.001	8108	5288			
C24	5.318	0.000	8256	2112			
C25	5.545	0.001	9922	3024			
C26	5.742	-0.002	11848	5912			
C28	6.099	-0.001	21959	27800			
C32	6.687	-0.003	16704	12967	JP-4 (Tol-C14)	651109	40
C34	6.954	0.001	13234	4399	BUNKERC (C10-C38)	2869945	339
Filter Peak	----						
C36	7.199	-0.002	10475	4951			
C38	7.438	-0.001	7861	1396			
C40	7.707	0.001	3936	850			
o-terph	4.162	-0.004	1523862	832686	JET-A (C10-C18)	702358	51
Triacon Surr	6.418	-0.001	1151074	879330	JP8 (Tol-C16)	781569	44

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	832686	38.9	86.4
Triacontane	879330	49.9	110.9

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

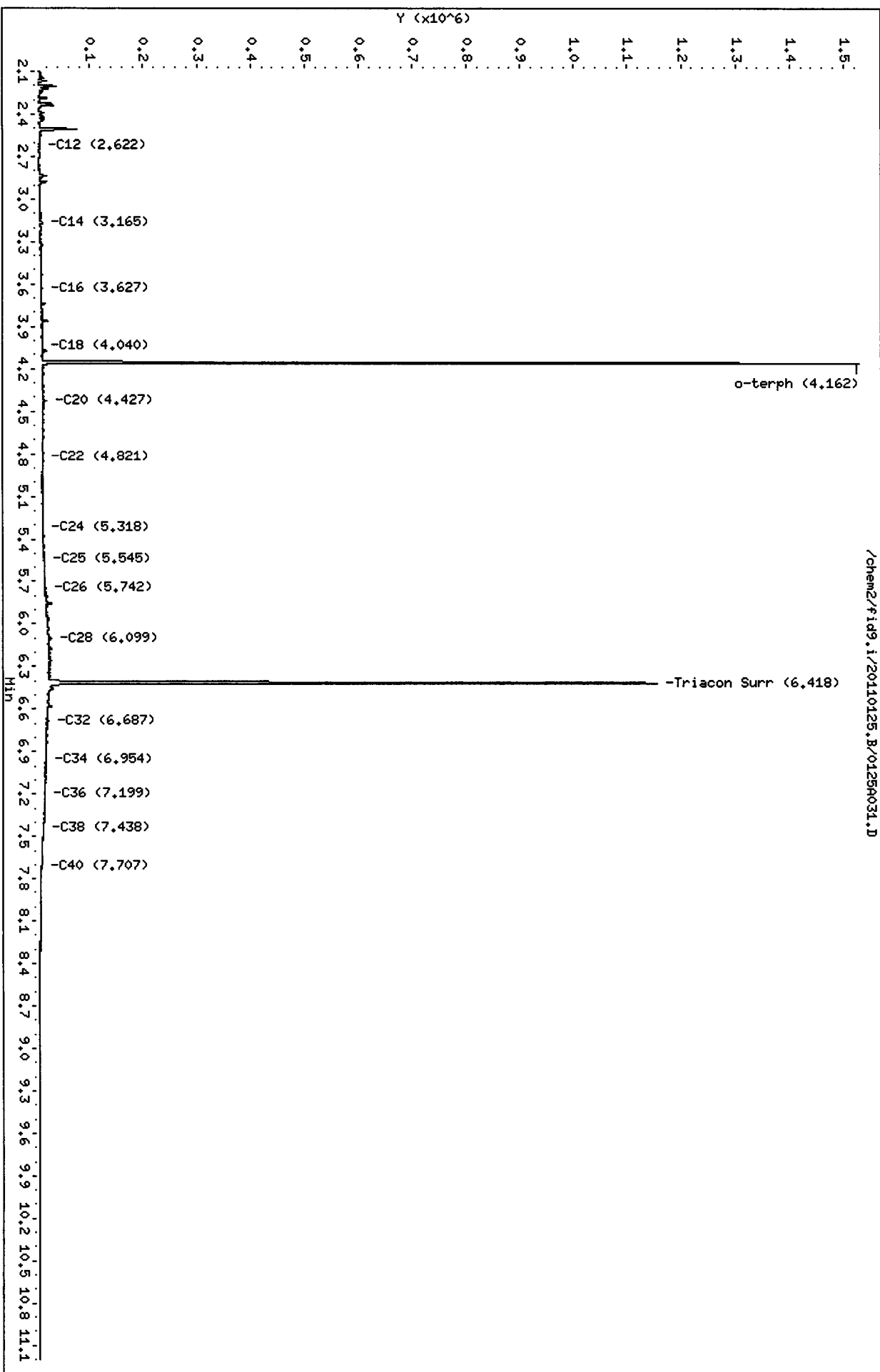
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Data File: /chem2/fid9.i/20110125.B/0125A031.D
Date: 26-JAN-2011 00:20
Client ID: MW-01-012111
Sample Info: SF76G

Column phase: RTX-1

Instrument: fid9.i
Operator: HS
Column diameter: 0.25

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09 : 02 : 19

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A031.D
 Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 01/27/2011

ARI ID: SF76G
 Client ID: MW-01-012111
 Injection: 26-JAN-2011 00:20
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.350	0.026	3107	3493	GAS (Tol-C12)	562984	27
C8	----				DIESEL (C12-C24)	987989	44
C10	1.981	-0.005	10216	11325	M.OIL (C24-C38)	1661102	125
C12	2.622	0.002	2694	2556	AK-102 (C10-C25)	1354850	53 M
C14	3.165	0.010	8194	4576	AK-103 (C25-C36)	1475956	174 M
C16	3.627	0.004	6439	6023			
C18	4.040	-0.005	7799	4728			
C20	4.427	-0.005	14312	18876			
C22	4.821	-0.001	8108	5288			
C24	5.318	0.000	8256	2112			
C25	5.545	0.001	9922	3024			
C26	5.742	-0.002	11848	5912			
C28	6.099	-0.001	21959	27800			
C32	6.687	-0.003	16704	12967	JP-4 (Tol-C14)	651109	40
C34	6.954	0.001	13234	4399	BUNKERC (C10-C38)	2956157	349 M
Filter Peak	----						
C36	7.199	-0.002	10475	4951			
C38	7.438	-0.001	7861	1396			
C40	7.707	0.001	3936	850			
o-terph	4.162	-0.004	1515746	814694	JET-A (C10-C18)	702358	51
Triacon Surr	6.418	-0.001	1130346	811663	JP8 (Tol-C16)	781569	44

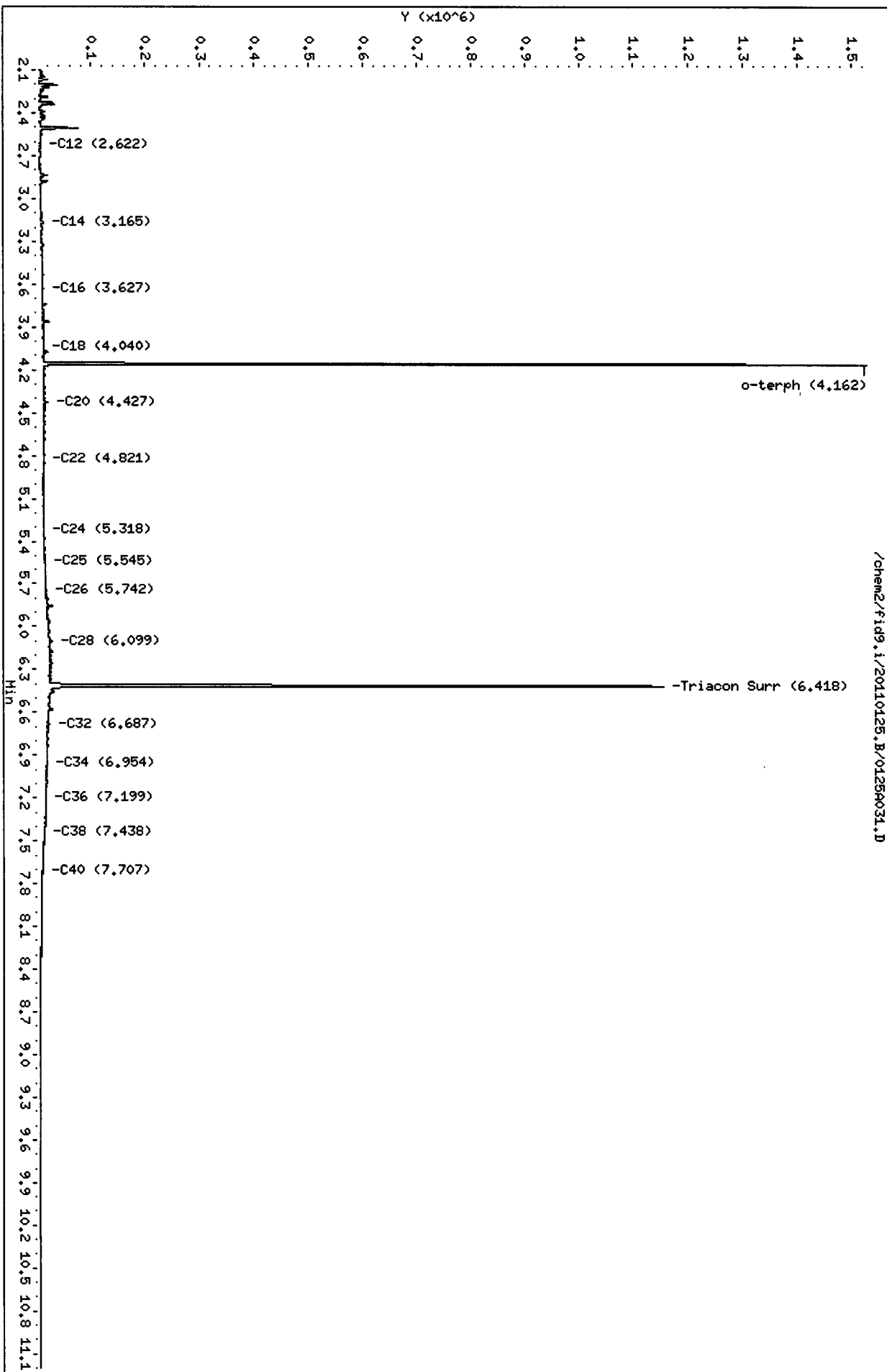
M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	814694	38.0	84.5
Triacontane	811663	46.0	102.3

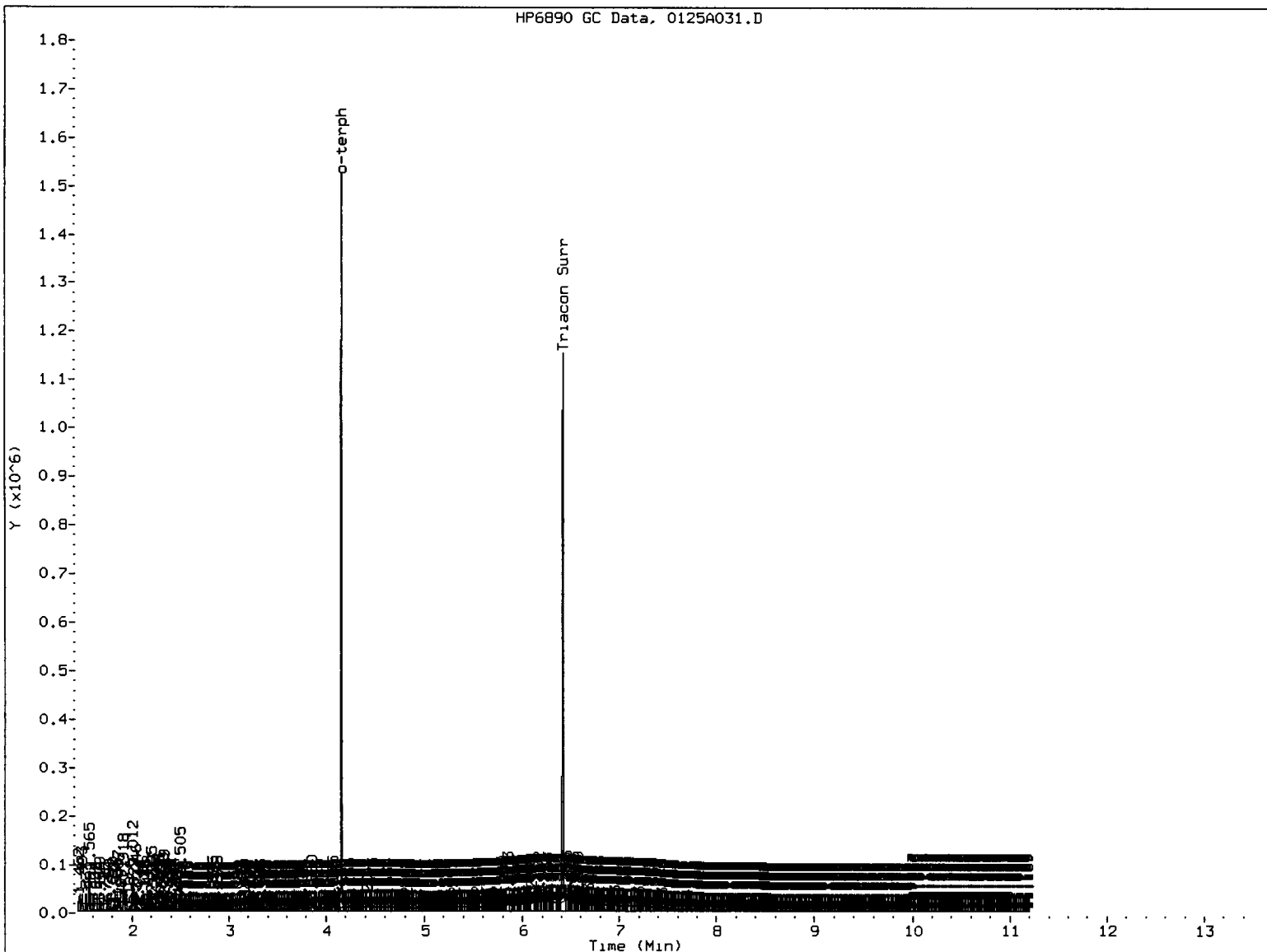
Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

/chem2/fid9.i/20110125.B/0125A031.D



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HP6890 GC Data, 0125A031.D



MANUAL INTEGRATION

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

Analyst: *AM*

Date: 1/29/11

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A032.D
Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 01/27/2011

ARI ID: SF76H
Client ID: MW-01-012111-D
Injection: 26-JAN-2011 00:41
Dilution Factor: 1
Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.345	0.021	2225	2241	GAS (Tol-C12)	621793	30
C8	----				DIESEL (C12-C24)	2014500	89
C10	1.977	-0.008	12077	11686	M.OIL (C24-C38)	3387021	255
C12	2.616	-0.004	5338	4135	AK-102 (C10-C25)	2512688	98
C14	3.164	0.009	15556	17540	AK-103 (C25-C36)	2988021	352
C16	3.626	0.002	13940	13133			
C18	4.042	-0.004	16587	21701			
C20	4.437	0.005	20184	12683			
C22	4.822	0.000	16702	7203			
C24	5.317	-0.001	18498	8880			
C25	5.541	-0.003	20294	11196			
C26	5.741	-0.003	25326	9291			
C28	6.097	-0.003	44820	42291			
C32	6.695	0.005	31035	14567	JP-4 (Tol-C14)	801242	49
C34	6.955	0.002	29163	26791	BUNKERC (C10-C38)	5766054	682
Filter Peak	----						
C36	7.197	-0.005	23541	10011			
C38	7.444	0.005	18235	10654			
C40	7.705	-0.001	9676	6260			
o-terph	4.161	-0.005	1473427	802365	JET-A (C10-C18)	1149123	83
Triacon Surr	6.418	-0.002	1186265	877722	JP8 (Tol-C16)	1054475	60

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	802365	37.5	83.3
Triacontane	877722	49.8	110.7

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110125.B/0125A032.D

Date: 26-JAN-2011 00:41

Client ID: MM-01-012111-D

Sample Info: SF76H

Page 1

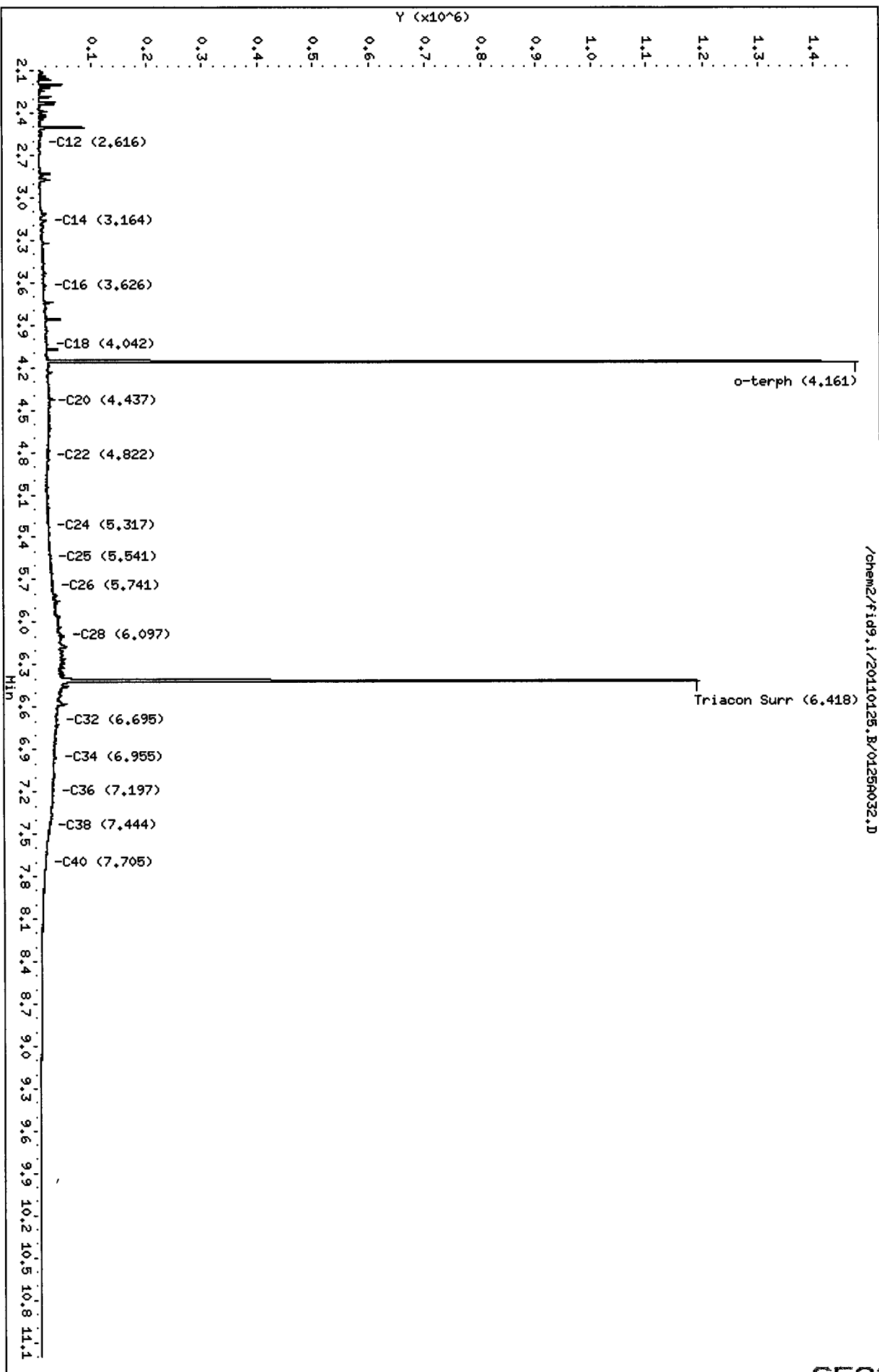
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Instrument: fid9.i

Operator: HS

Column diameter: 0.25



SF26 : 012005

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A032.D
 Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 01/27/2011

ARI ID: SF76H
 Client ID: MW-01-012111-D
 Injection: 26-JAN-2011 00:41
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.345	0.021	2225	2241	GAS (Tol-C12)	621793	30
C8	----				DIESEL (C12-C24)	2048242	90
C10	1.977	-0.008	12077	11686	M.OIL (C24-C38)	3523990	266
C12	2.616	-0.004	5338	4135	AK-102 (C10-C25)	2546430	100 M
C14	3.164	0.009	15556	17540	AK-103 (C25-C36)	3124989	368 M
C16	3.626	0.002	13940	13133			
C18	4.042	-0.004	16587	21701			
C20	4.437	0.005	20184	12683			
C22	4.822	0.000	16702	7203			
C24	5.317	-0.001	18498	8880			
C25	5.541	-0.003	20294	11196			
C26	5.741	-0.003	25326	9291			
C28	6.097	-0.003	44820	42291			
C32	6.695	0.005	31035	14567	JP-4 (Tol-C14)	801242	49
C34	6.955	0.002	29163	26791	BUNKERC (C10-C38)	5936765	702 M
Filter Peak	----						
C36	7.197	-0.005	23541	10011			
C38	7.444	0.005	18235	10654			
C40	7.705	-0.001	9676	6260			
o-terph	4.161	-0.005	1457123	768936	JET-A (C10-C18)	1149123	83
Triacon Surr	6.418	-0.002	1144080	741539	JP8 (Tol-C16)	1054475	60

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	768936	35.9	79.8
Triacontane	741539	42.1	93.5

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110125.B/0125A032.D

Date: 26-JAN-2011 00:41

Client ID: MM-01-012111-D

Sample Info: SF76H

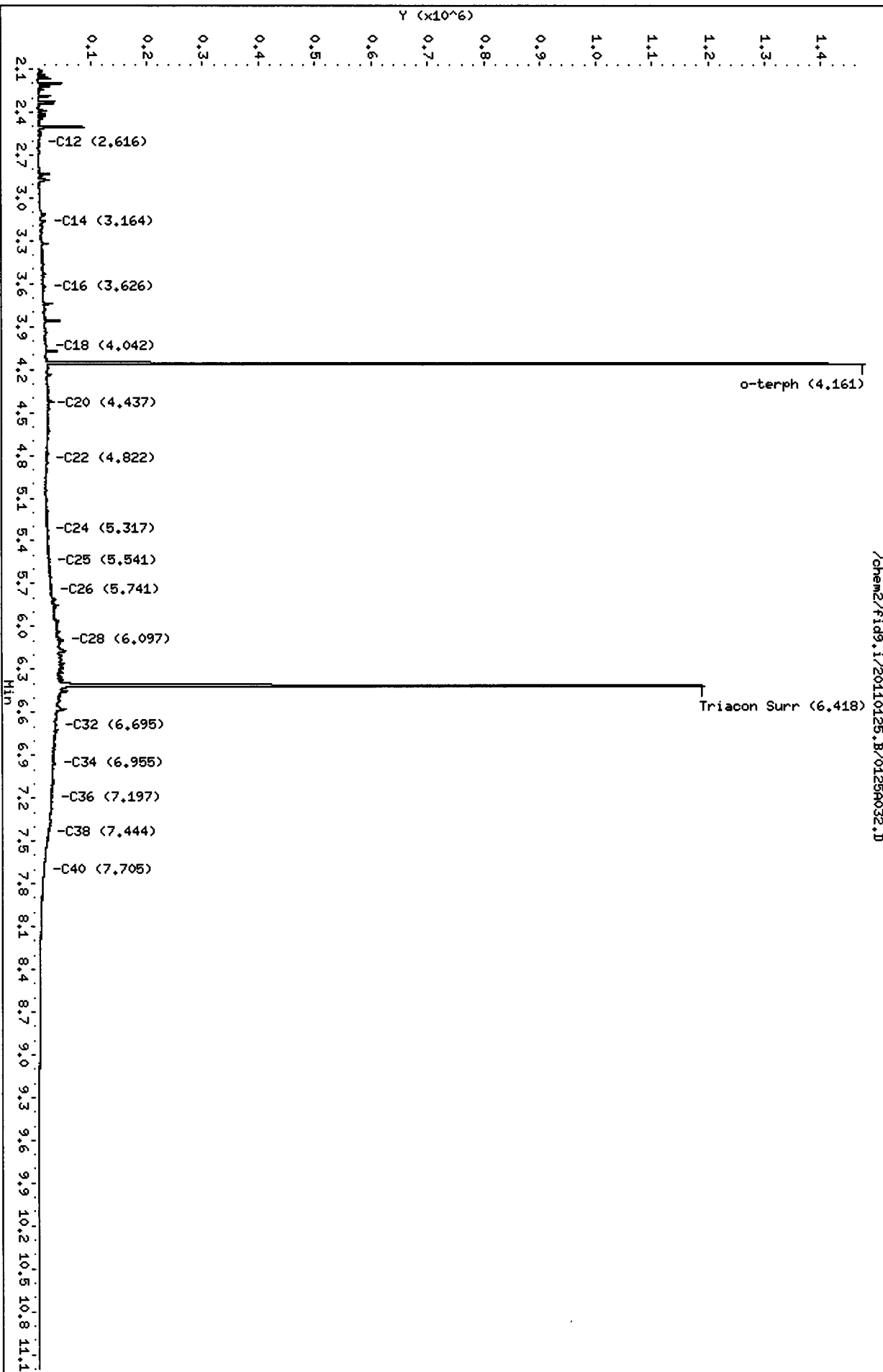
Column phase: RTX-1

Instrument: fid9.i

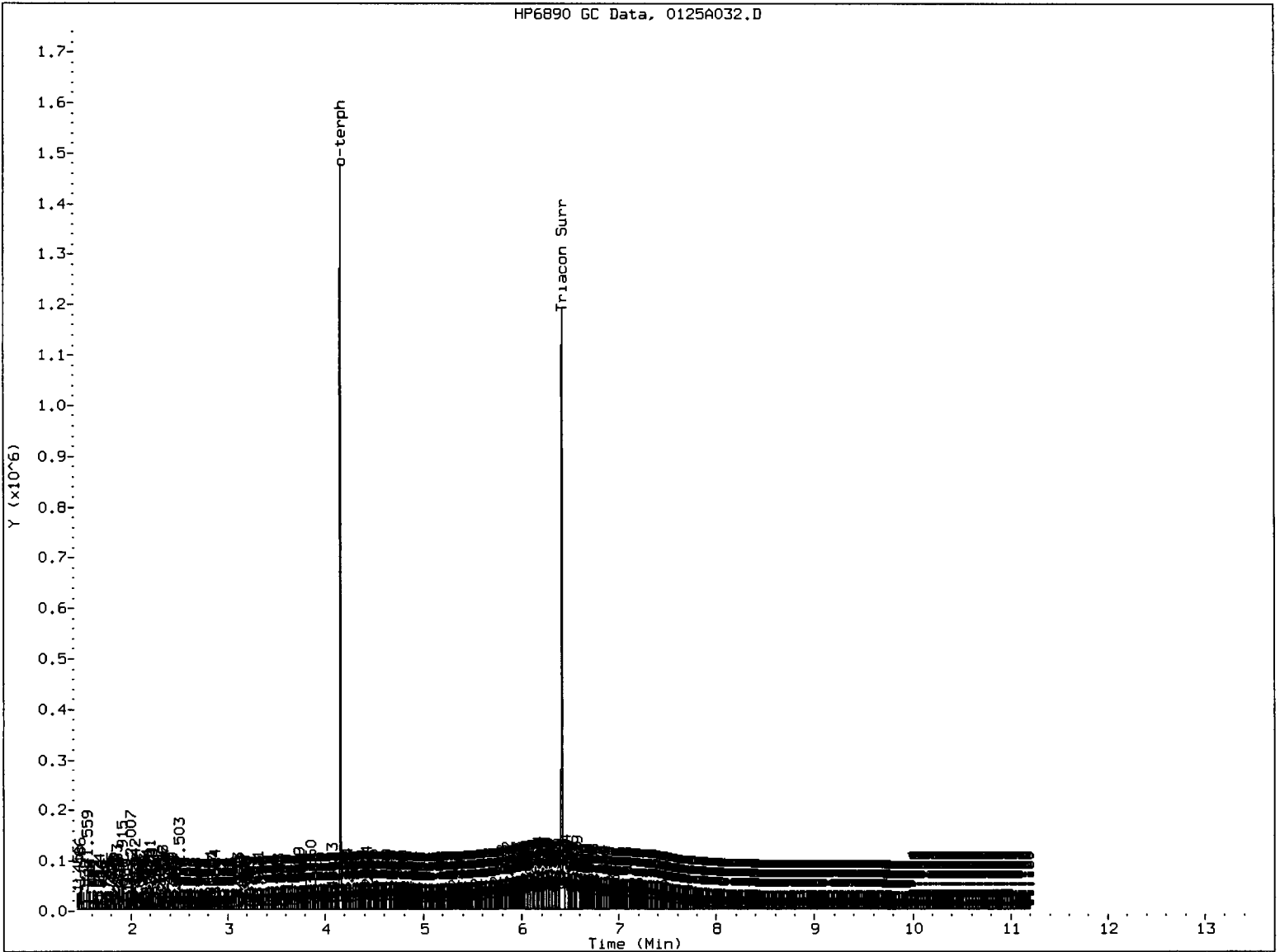
Operator: HS

Column diameter: 0.25

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HP6890 GC Data, 0125A032.D



MANUAL INTEGRATION

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

Analyst:

Date: 7/27/11

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A033.D
 Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 02/02/2011

ARI ID: DIESEL#4
 Client ID: LORA LAKE APTS. RI
 Injection: 26-JAN-2011 01:03
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.329	0.005	4537	3735	GAS (Tol-C12)	977538	47
C8	1.354	0.050	4009	3000	DIESEL (C12-C24)	5768877	255
C10	1.984	-0.001	30926	28154	M.OIL (C24-C38)	70795	5
C12	2.620	0.000	85933	60224	AK-102 (C10-C25)	6501359	255 M
C14	3.153	-0.002	177284	106525	AK-103 (C25-C36)	46377	5
C16	3.621	-0.003	316914	181271			
C18	4.043	-0.003	281764	177613			
C20	4.429	-0.003	161221	103021			
C22	4.818	-0.005	54402	44901			
C24	5.314	-0.004	14794	13305			
C25	5.538	-0.006	6807	6557			
C26	5.741	-0.003	2650	2894			
C28	6.096	-0.004	287	261			
C32	6.693	0.003	85	40	JP-4 (Tol-C14)	2005644	122
C34	6.947	-0.006	1335	1403	BUNKERC (C10-C38)	6554646	775 M
Filter Peak	----						
C36	7.205	0.004	323	67			
C38	7.434	-0.005	468	72			
C40	7.700	-0.006	550	393			
o-terph	4.163	-0.002	1720214	975983	JET-A (C10-C18)	4865948	352
Triacon Surr	6.409	-0.011	299	279	JP8 (Tol-C16)	3523600	200

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

Surrogate	Area	Amount	%Rec
o-Terphenyl	975983	45.6	101.3
Triacontane	279	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20110125.B/0125A033.D

Date: 26-JAN-2011 01:03

Client ID: LORA LAKE APTS. RI

Sample Info: DIESEL#4

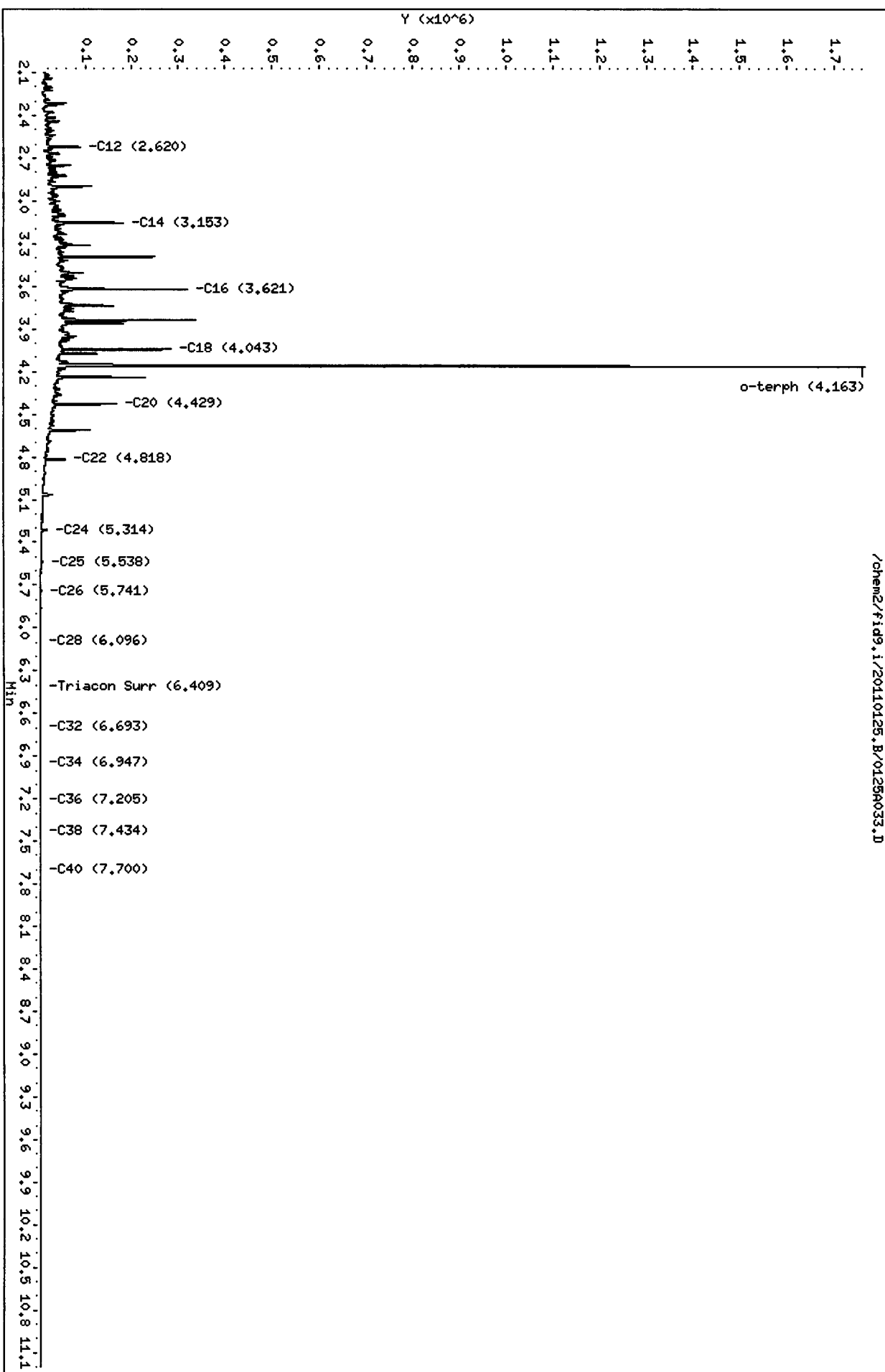
Column phase: RTX-1

Instrument: fid9.i

Operator: HS

Column diameter: 0.25

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Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20110125.B/0125A034.D
 Method: /chem2/fid9.i/20110125.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 02/02/2011

ARI ID: MOIL#4
 Client ID: LORA LAKE APTS. RI
 Injection: 26-JAN-2011 01:24
 Dilution Factor: 1
 Macro: 20-JAN-2011

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.366	0.042	4392	4993	GAS (Tol-C12)	75495	4
C8	----				DIESEL (C12-C24)	787727	35
C10	1.987	0.001	1352	1999	M.OIL (C24-C38)	7100816	535
C12	2.624	0.003	1265	1204	AK-102 (C10-C25)	991724	39
C14	3.152	-0.003	141	135	AK-103 (C25-C36)	6191179	729 M
C16	3.634	0.010	2387	2508			
C18	4.050	0.004	714	498			
C20	4.427	-0.005	4945	4630			
C22	4.818	-0.005	15544	16468			
C24	5.316	-0.003	22800	7559			
C25	5.546	0.002	36952	13991			
C26	5.741	-0.003	38017	23258			
C28	6.097	-0.004	54027	16054			
C32	6.688	-0.002	79703	42768	JP-4 (Tol-C14)	82800	5
C34	6.950	-0.003	78202	35141	BUNKERC (C10-C38)	7906793	935 M
Filter Peak	----						
C36	7.199	-0.003	67849	66950			
C38	7.433	-0.006	52153	23028			
C40	7.701	-0.005	23549	13723			
o-terph	4.166	0.001	1156	1132	JET-A (C10-C18)	49268	4
Triacon Surr	6.421	0.001	1306238	928207	JP8 (Tol-C16)	88488	5

M Indicates manual integration within range.

Range Times: NW Diesel(2.620 - 5.318) AK102(1.99 - 5.54) Jet A(1.99 - 4.05)
 NW M.Oil(5.32 - 7.44) AK103(5.54 - 7.20) OR Diesel(1.99 - 6.10)

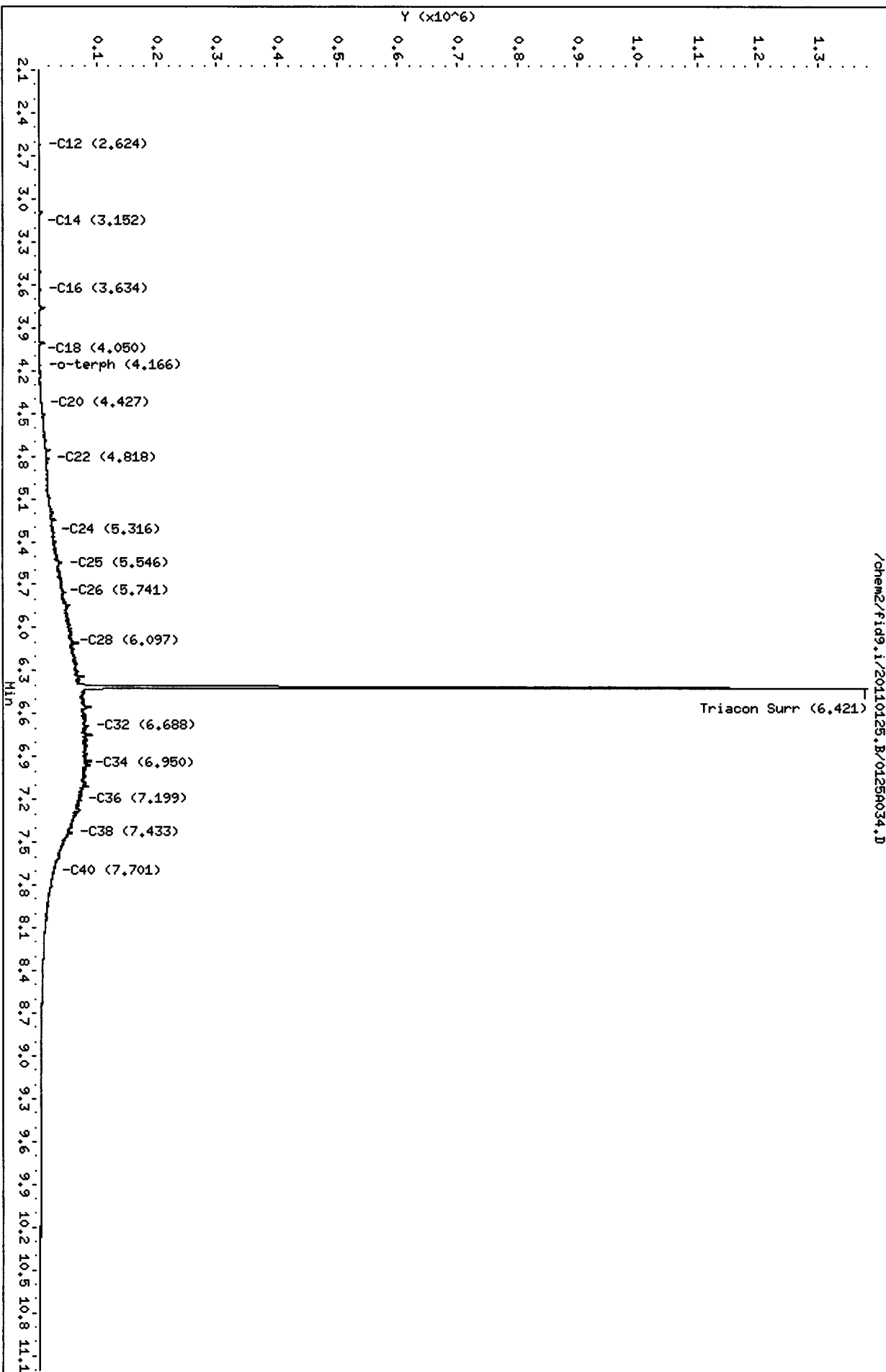
Surrogate	Area	Amount	%Rec
o-Terphenyl	1132	0.1	0.1
Triacontane	928207	52.7	117.0

Analyte	RF	Curve Date
o-Terph Surr	21417.1	20-JAN-2011
Triacon Surr	17626.4	20-JAN-2011
Gas	21009.8	15-JUN-2010
Diesel	22653.1	20-JAN-2011
Motor Oil	13263.6	20-JAN-2011
AK102	25525.9	20-JAN-2011
AK103	8498.1	07-SEP-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8460.3	18-SEPT-2010
JP-8	17594.0	25-MAY-2010

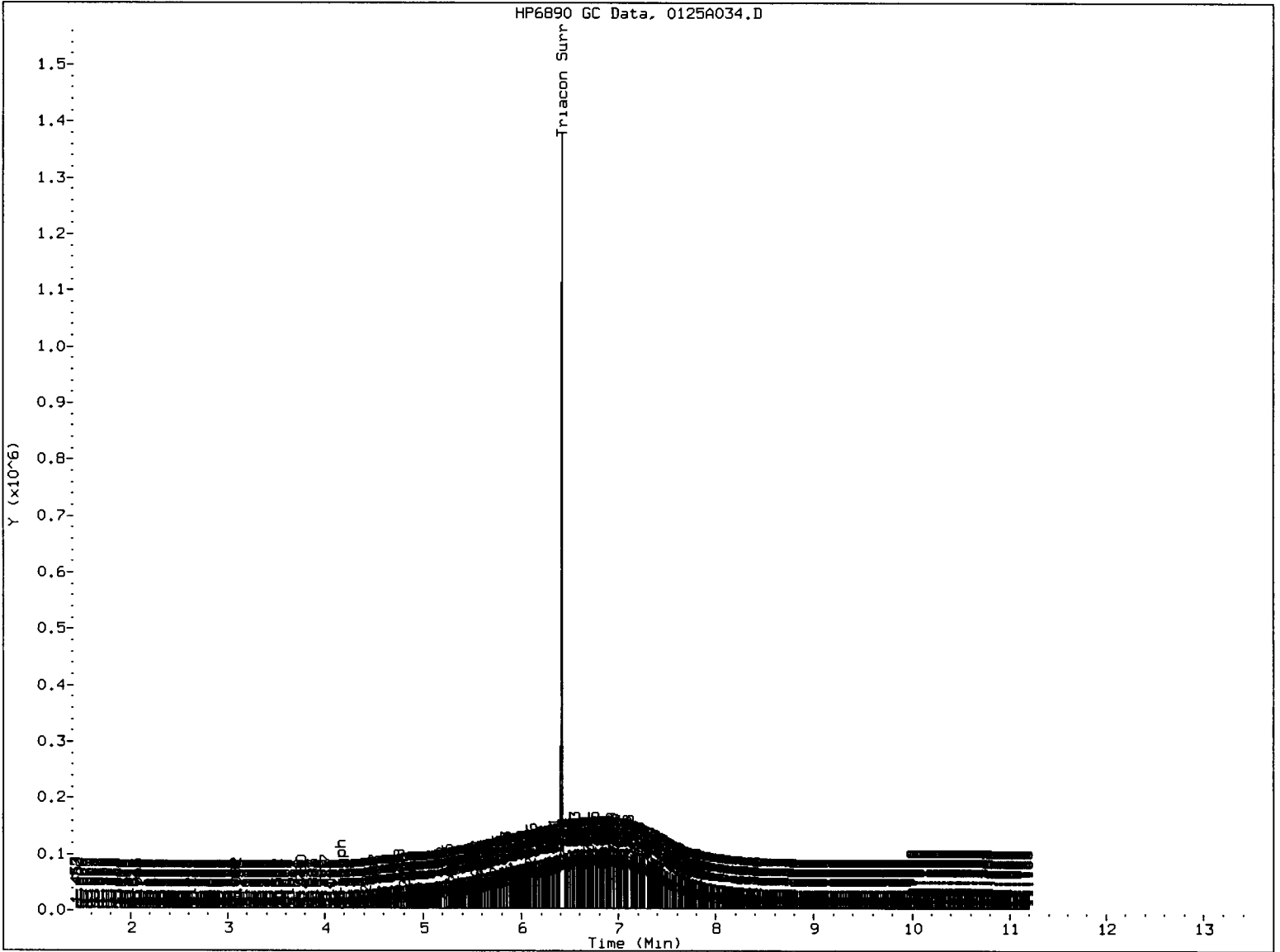
Data File: /chem2/fid9.i/20110125.B/0125A034.D
Date : 26-JAN-2011 01:24
Client ID: LORA LAKE APTS. RI
Sample Info: MOIL#4

Column phase: RTX-1

Instrument: fid9.i
Operator: HS
Column diameter: 0.25



09 09 09 09 09 09 09 09 09 09



MANUAL INTEGRATION

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

Analyst: *[Signature]*

Date: *[Signature]*

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

ARI Job ID: SF26, SF50, SF76



VOA Analyst Notes / Corrective Action Log

ARI Project ID: BETX/Gas Curve Client ID: _____

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

Parameter(s): BETX/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: 1/17/11 Analysis Start Date: 1/17/11

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):

BETX ICU Targeted 25
GAS ICU Targeted 2.5

Additional Details on Reverse: Yes / No

Analyst: [Signature] wt Date: 1/18/11

Reviewer: [Signature] Date: 1/18/11

Analytical Resources Inc.: Organics Instrument Log

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

Date: 1/17/11 Analysis: NWTPH6/BETX Analyst: MH

GC Program: BETX Column No: 832213 Column Type: RTXSO2-2

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

Calibration File: Curve Date: 1/17/11

IS/SS	Ical/Ccal	LCS/ICV
<u>VW669-1</u>	<u>VW635-1</u>	<u>VW631-3</u>
<u> </u>	<u>VW672-3</u>	<u>VW657-2</u>
<u> </u>	<u>VU668-1</u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

Time	Filename	LabID	ClientID	Vials	pH	DP
1	1103	0117a002.d	RT+SCAL 1			1
2	1129	0117a003.d	RINSE			1
3	1155	0117a004.d	BETX .25			1
4	1221	0117a005.d	BETX .5			1
5	1248	0117a006.d	BETX 5			1
6	1314	0117a007.d	BETX 25			1
7	1340	0117a008.d	BETX 50			1
8	1406	0117a009.d	BETX 100			1
9	1432	0117a010.d	BETX 200			1
10	1459	0117a011.d	BETX ICV			1
11	1525	0117a012.d	RINSE			1
12	1551	0117a013.d	GAS .1			1
13	1617	0117a014.d	GAS .25			1
14	1644	0117a015.d	GAS 1			1
15	1710	0117a016.d	GAS 2.5			1
16	1736	0117a017.d	GAS 5			1
17	1802	0117a018.d	GAS 20			1
18	1828	0117a019.d	RINSE			1
19	1854	0117a020.d	GAS ICV			1

MH 1/21/11

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 GC per

MH
1/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110117-2.b/0117a002.d ARI ID: RT+BCAL 1
Data file 2: /chem3/pid3.i/20110117-1.b/0117a002.d Client ID:
Method: /chem3/pid3.i/20110117-1.b/PIDB.m Injection Date: 17-JAN-2011 11:03
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	----	----	-----
7.354	-0.003	7194	86096	103.2	TFT(Surr)
14.230	-0.002	3457	36776	105.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.10 to 17.46)	905544	1097336	1.212
8015B 2MP-TMB (3.72 to 15.35)	1702573	1259137	0.740
AK101 nC6-nC10 (4.22 to 13.99)	1177929	882340	0.749
NWTPHG Tol-Nap (9.10 to 18.36)	942411	1172328	1.244

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
--	-----	-----	----	-----
7.353	-0.003	21062	103.7	TFT(Surr)
14.229	-0.002	35262	105.2	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	----	-----
6.505	-0.004	34772	25.05	Benzene
9.196	-0.005	32777	25.22	Toluene
11.795	-0.007	29658	26.29	Ethylbenzene
11.938	-0.011	64662	52.38	M/P-Xylene
12.735	-0.007	28404	25.47	O-Xylene
4.081	-0.002	12515	27.27	MTBE

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

Data File: /chem3/pid3.i/20110117-2.b/0117a002.d

Date : 17-JAN-2011 11:03

Client ID:

Sample Info: RT+BCAL 1

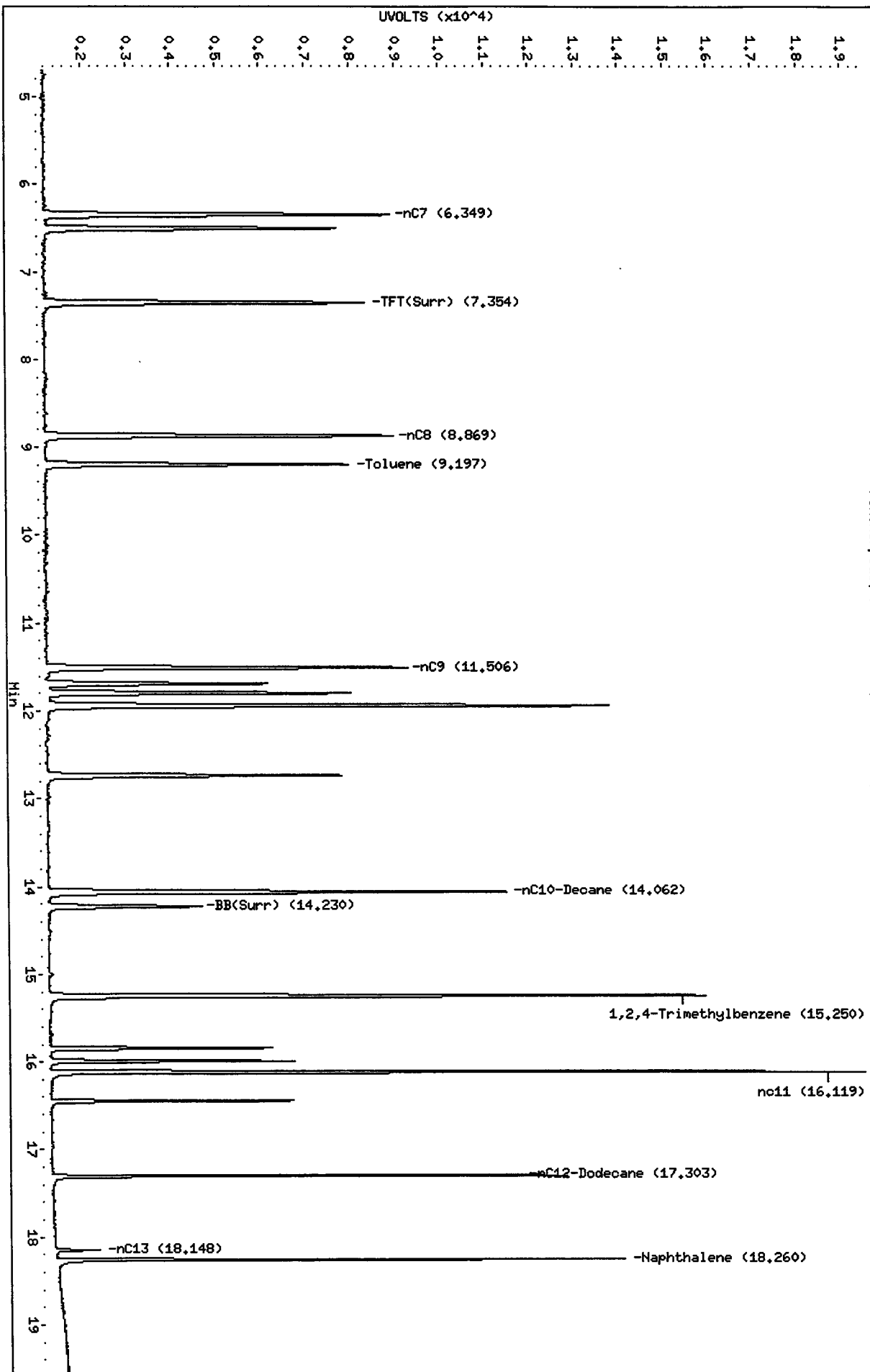
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

/chem3/pid3.i/20110117-2.b/0117a002.d/0117a002.cdf



Data File: /chem3/pid3.1/20110117-1.b/0117a002.d

Date: 17-JAN-2011 11:03

Client ID:

Sample Info: RT+GCAL 1

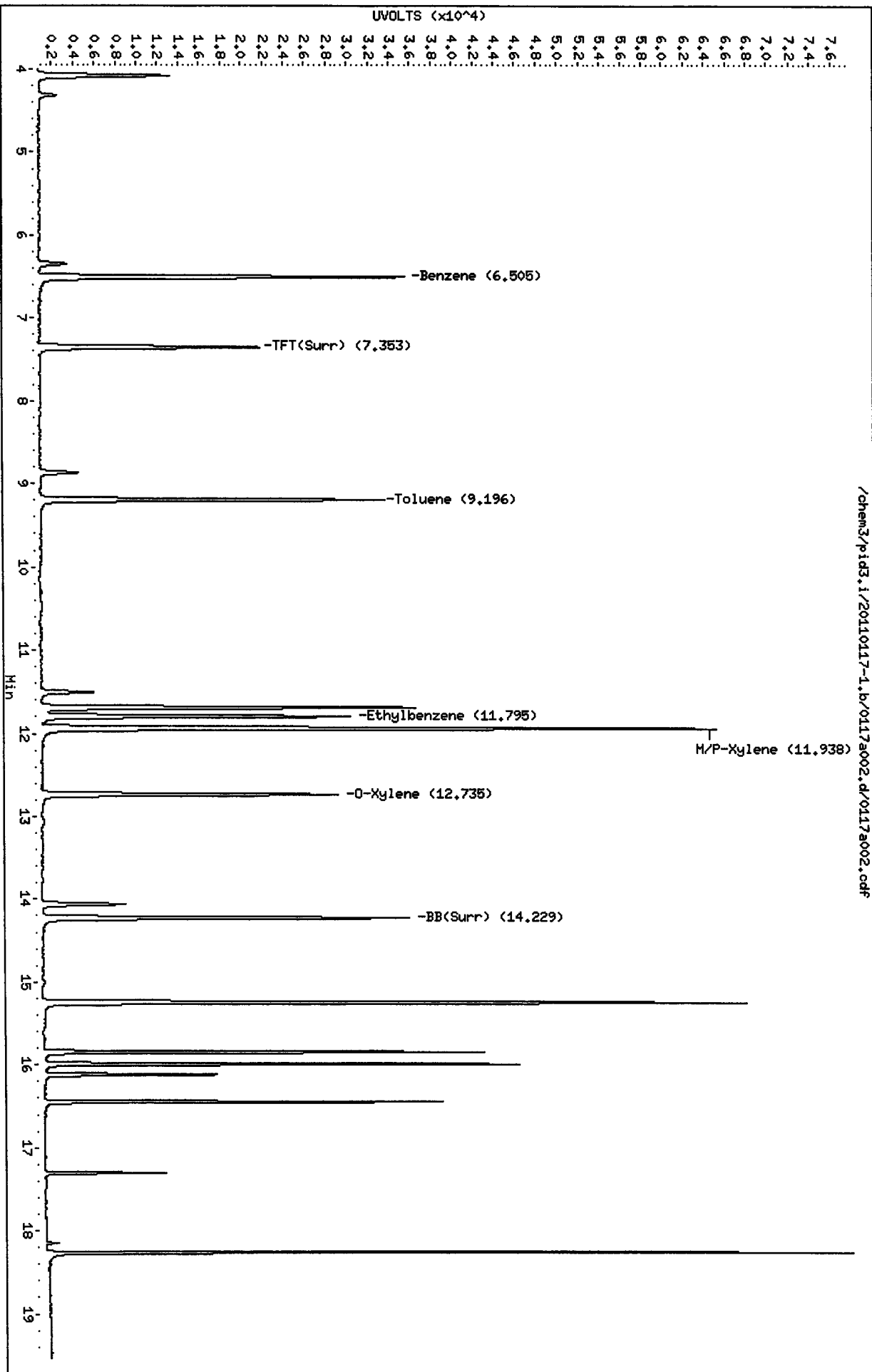
Column phase: RTX 502-2 PID

Instrument: pid3.1

Operator: HH

Column diameter: 0.18

/chem3/pid3.1/20110117-1.b/0117a002.d/0117a002.cdf



0101010

MH
1/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110117-2.b/0117a013.d ARI ID: GAS .1
Data file 2: /chem3/pid3.i/20110117-1.b/0117a013.d Client ID:
Method: /chem3/pid3.i/20110117-1.b/PIDB.m Injection Date: 17-JAN-2011 15:51
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.355	-0.002	6665	83226	95.6	TFT (Surr)
14.230	-0.002	3198	35328	97.2	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.10 to 17.46)	905544	107156	0.118 M
8015B 2MP-TMB (3.72 to 15.35)	1702573	178555	0.105 M
AK101 nC6-nC10 (4.22 to 13.99)	1177929	123384	0.105 M
NWTPHG Tol-Nap (9.10 to 18.36)	942411	110232	0.117 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
7.354	-0.002	19625	96.7	TFT(Surr)
14.228	-0.003	33061	98.7	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
9.197	-0.004	3746	2.88	Toluene
11.796	-0.006	1163	1.03	Ethylbenzene
11.941	-0.009	4263	3.45	M/P-Xylene
12.736	-0.006	1630	1.46	O-Xylene
4.082	-0.002	4715	10.27	MTBE

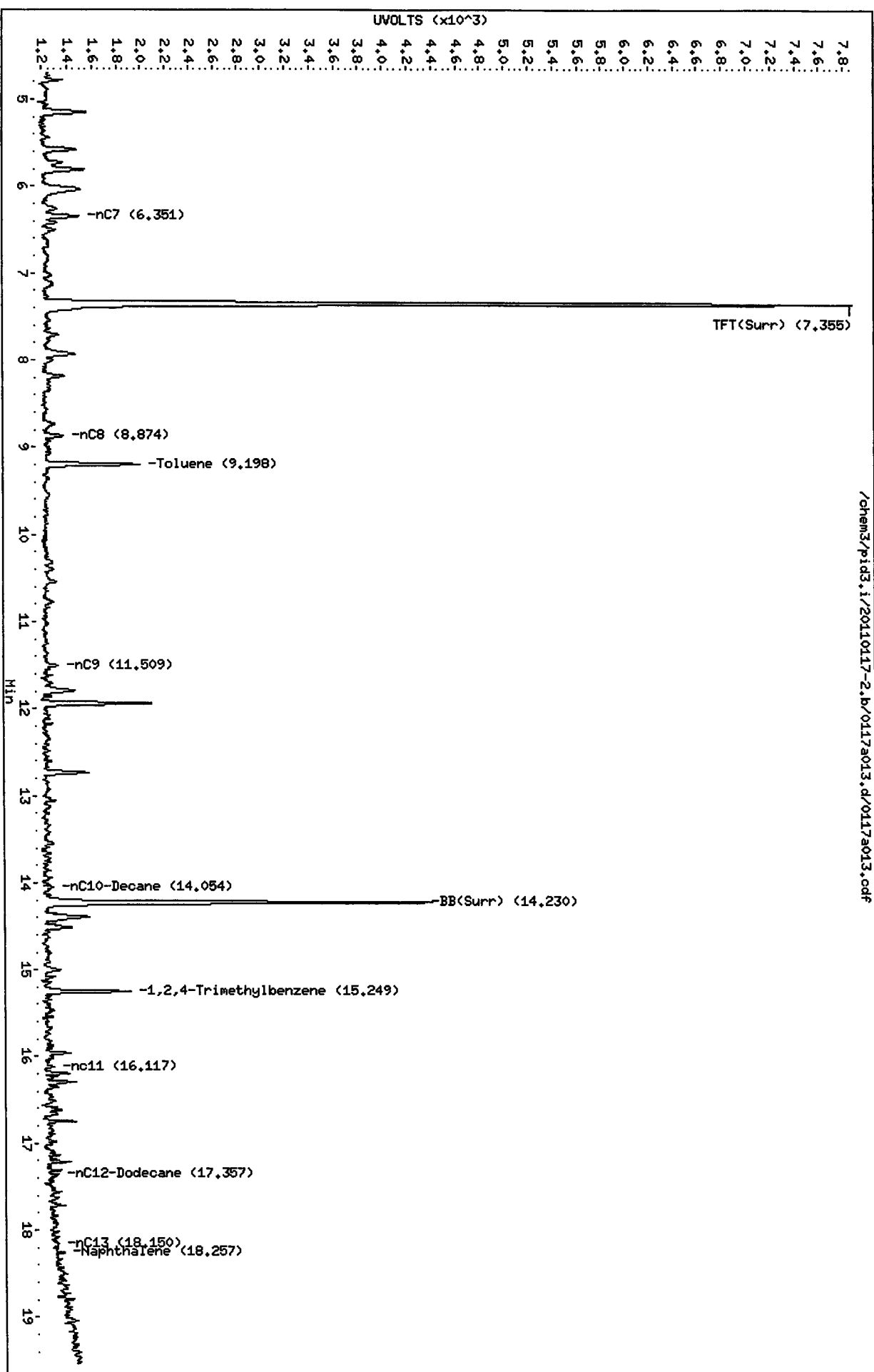
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20110117-2.b/0117a013.d
Date : 17-JAN-2011 15:51
Client ID:
Sample Info: GAS .1

Column phase: RTX 502-2 FID

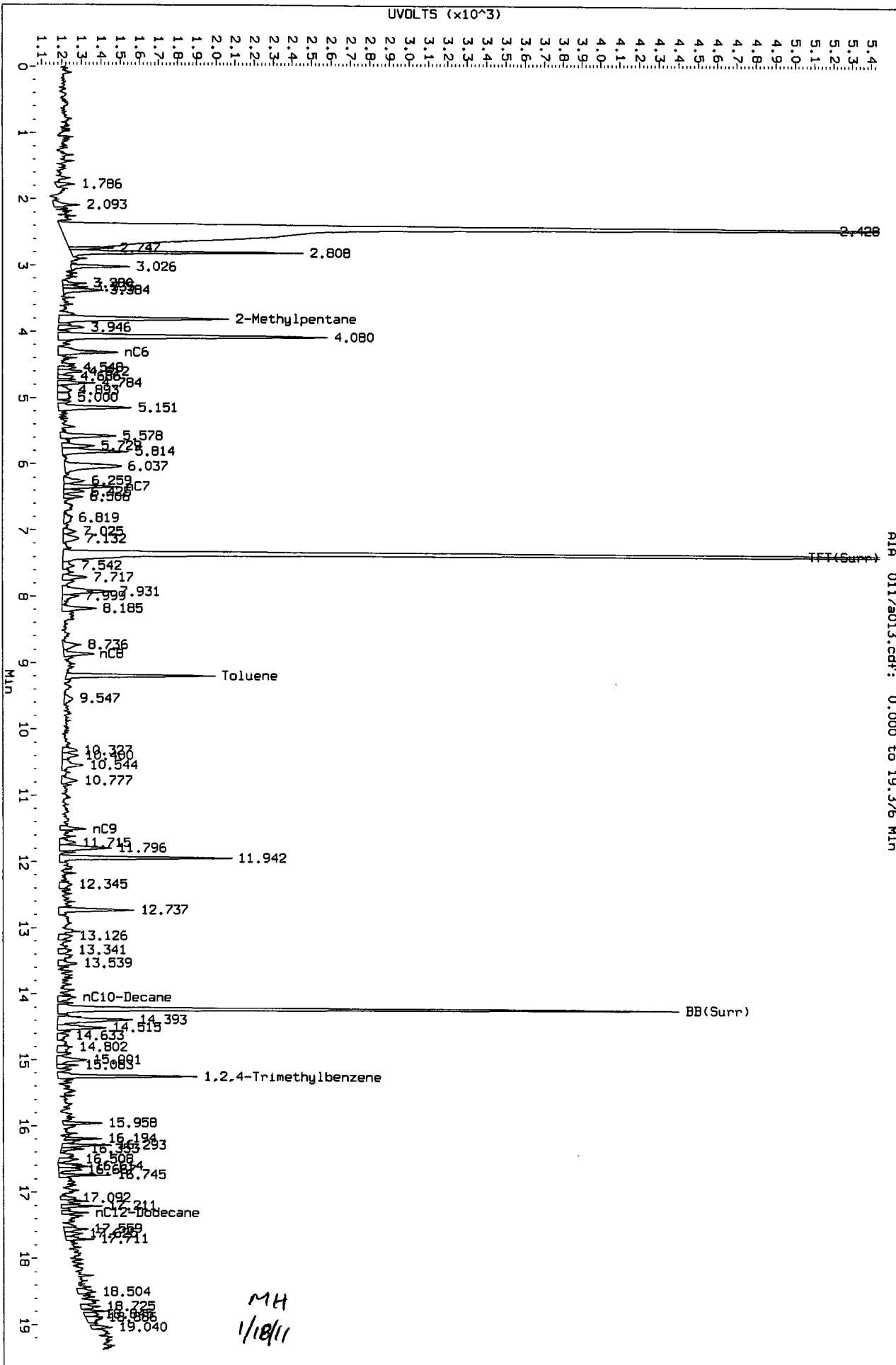
Instrument: pid3.i
Operator: MH
Column diameter: 0.18

/chem3/pid3.i/20110117-2.b/0117a013.d/0117a013.cdf

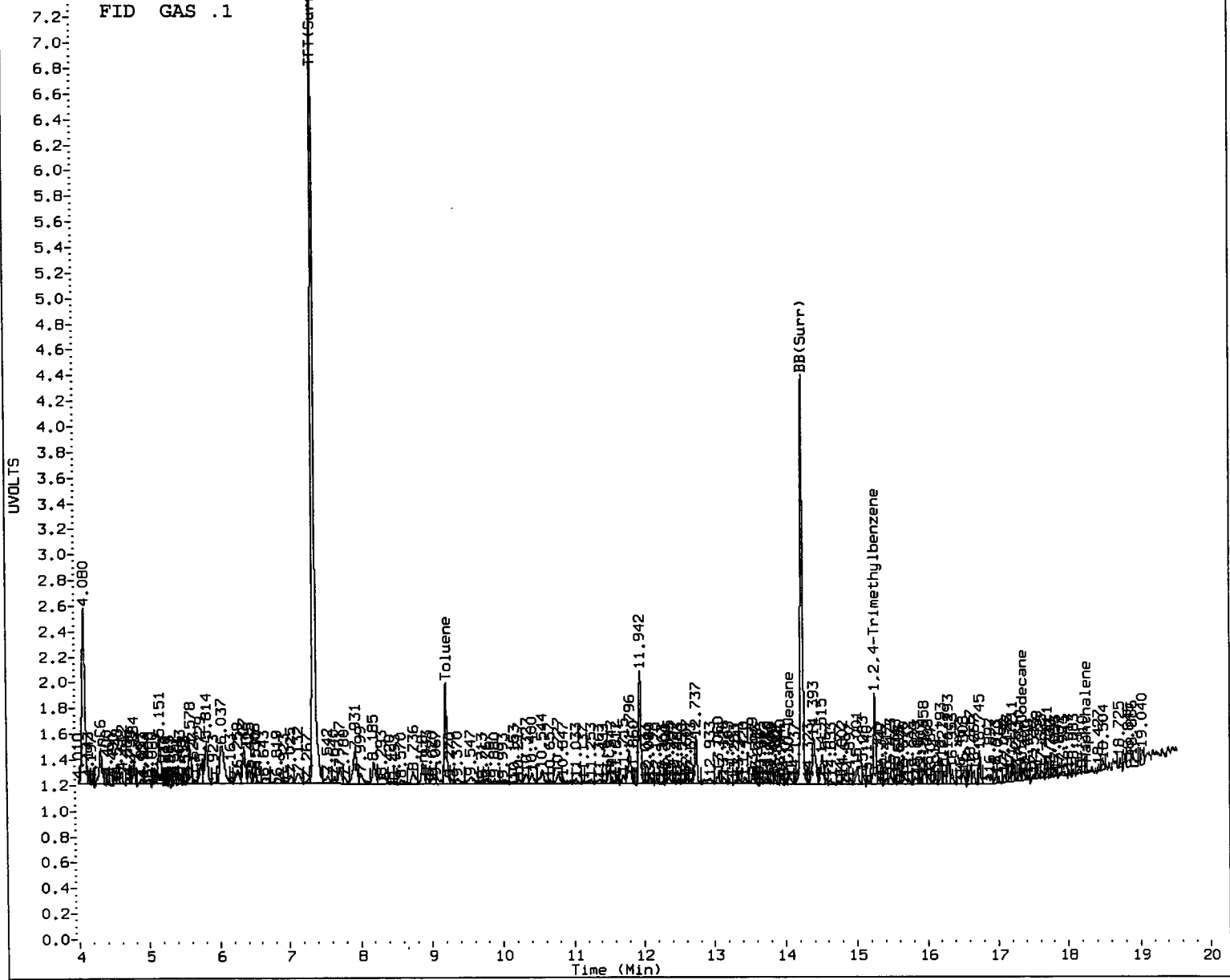


01170117

Data File: /chem3/pid3.1/20110117-2.b/0117a013.d/0117a013.cdf
 Injection Date: 17-JAN-2011 15:51
 Instrument: pid3.1
 Client Sample ID:



AIA 0117a013.cdf: 0.000 to 19.376 Min



MANUAL INTEGRATION

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

Analyst: MH

Date: 1/18/11

144
1/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110117-2.b/0117a014.d ARI ID: GAS .25
Data file 2: /chem3/pid3.i/20110117-1.b/0117a014.d Client ID:
Method: /chem3/pid3.i/20110117-1.b/PIDB.m Injection Date: 17-JAN-2011 16:17
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	----	----	-----
7.354	-0.003	6830	82774	98.0	TFT (Surr)
14.229	-0.003	3229	38462	98.1	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.10 to 17.46)	905544	236570	0.261 M
8015B 2MP-TMB (3.72 to 15.35)	1702573	454606	0.267 M
AK101 nC6-nC10 (4.22 to 13.99)	1177929	320096	0.272 M
NWTPHG Tol-Nap (9.10 to 18.36)	942411	251808	0.267 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
--	-----	-----	----	-----
7.353	-0.003	19809	97.6	TFT (Surr)
14.228	-0.003	33063	98.7	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	----	-----
6.507	-0.002	970	0.70	Benzene
9.196	-0.005	9399	7.23	Toluene
11.794	-0.007	2569	2.28	Ethylbenzene
11.940	-0.009	10364	8.40	M/P-Xylene
12.735	-0.006	3816	3.42	O-Xylene
4.082	-0.002	11562	25.19	MTBE

A Indicates Peak Area was used for quantitation instead of Height

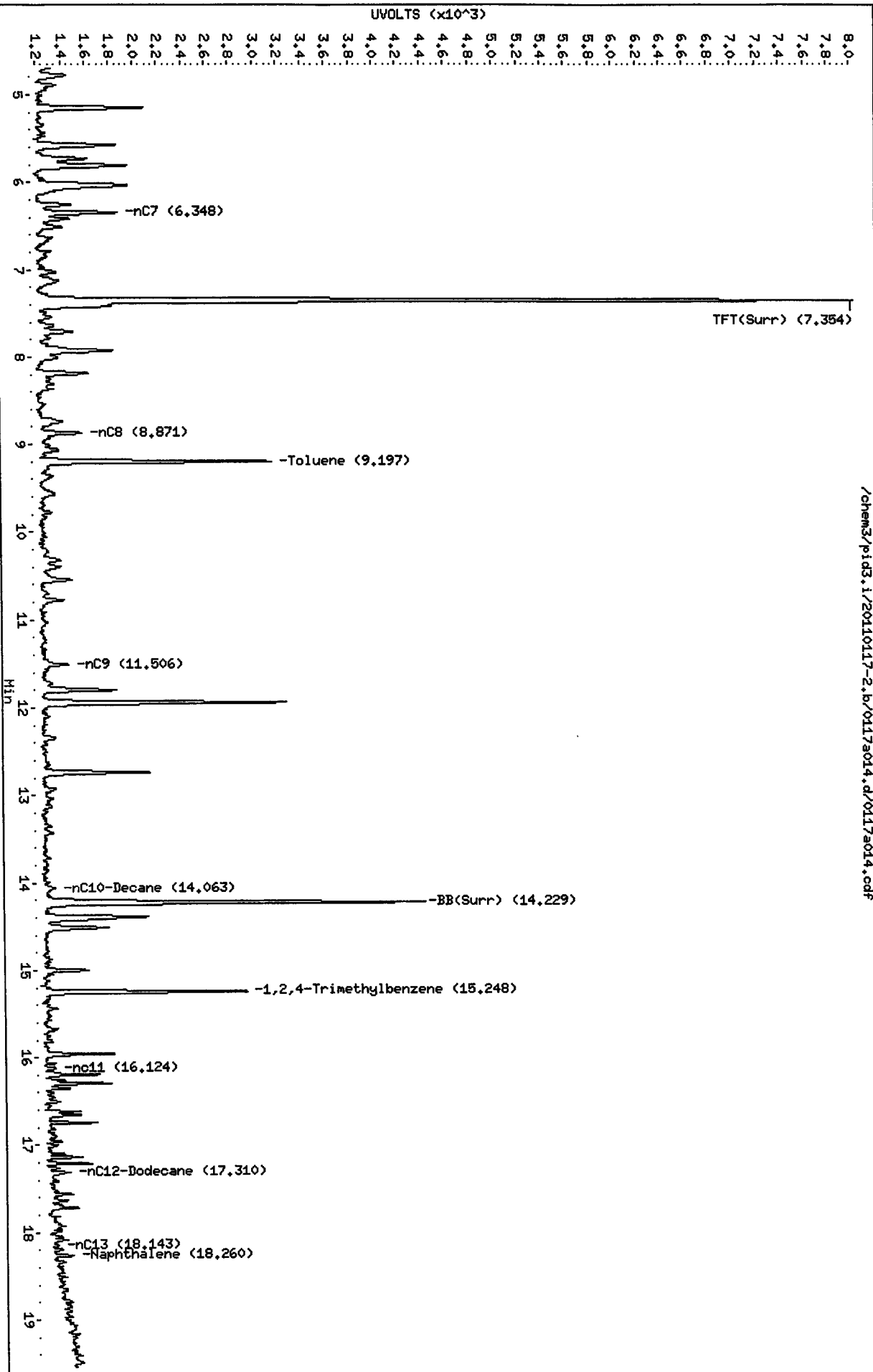
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20110117-2.b/0117a014.d
Date: 17-JAN-2011 16:17
Client ID:
Sample Info: GAS .25

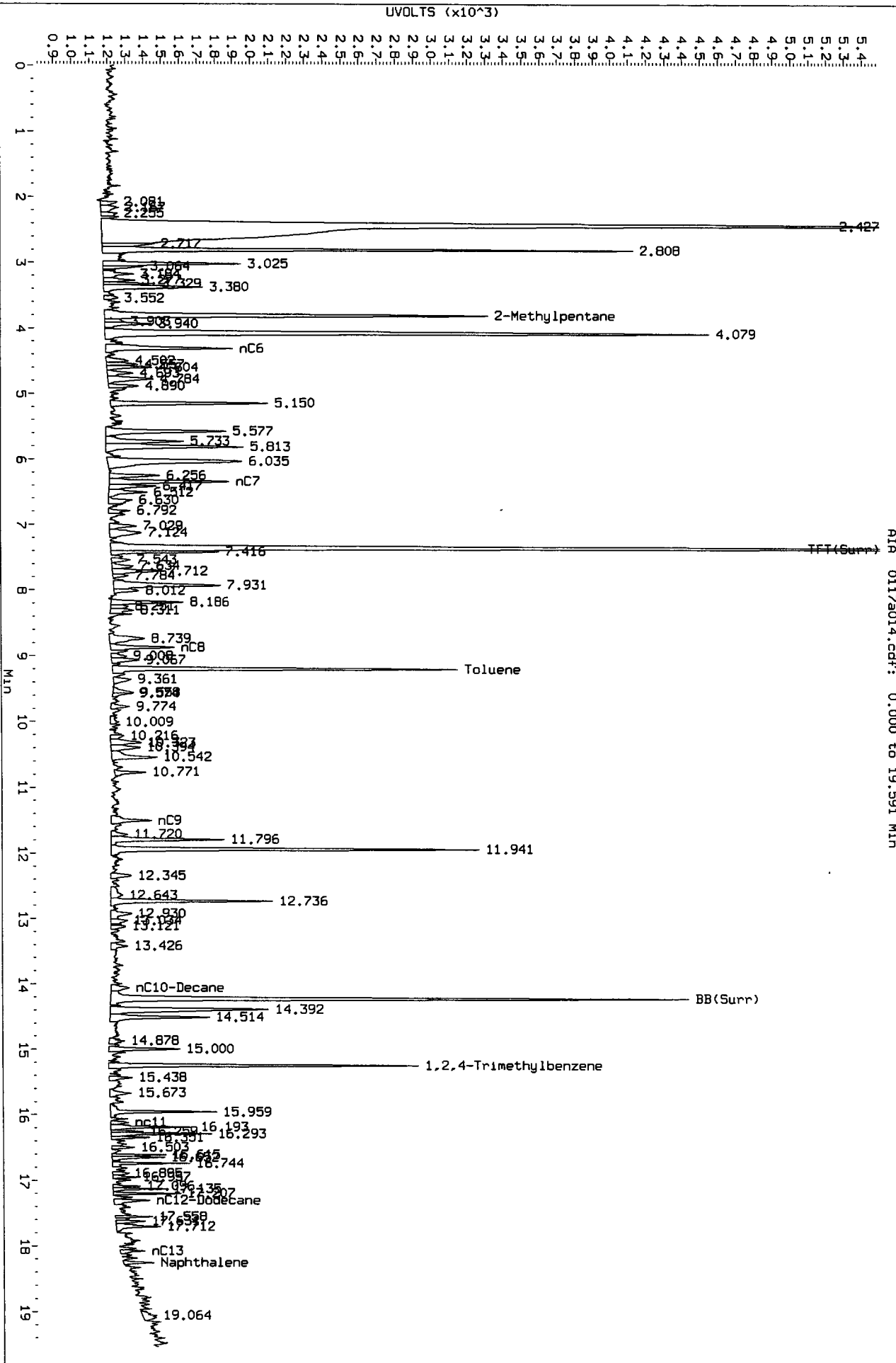
Column phase: RTX 502-2 FID

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

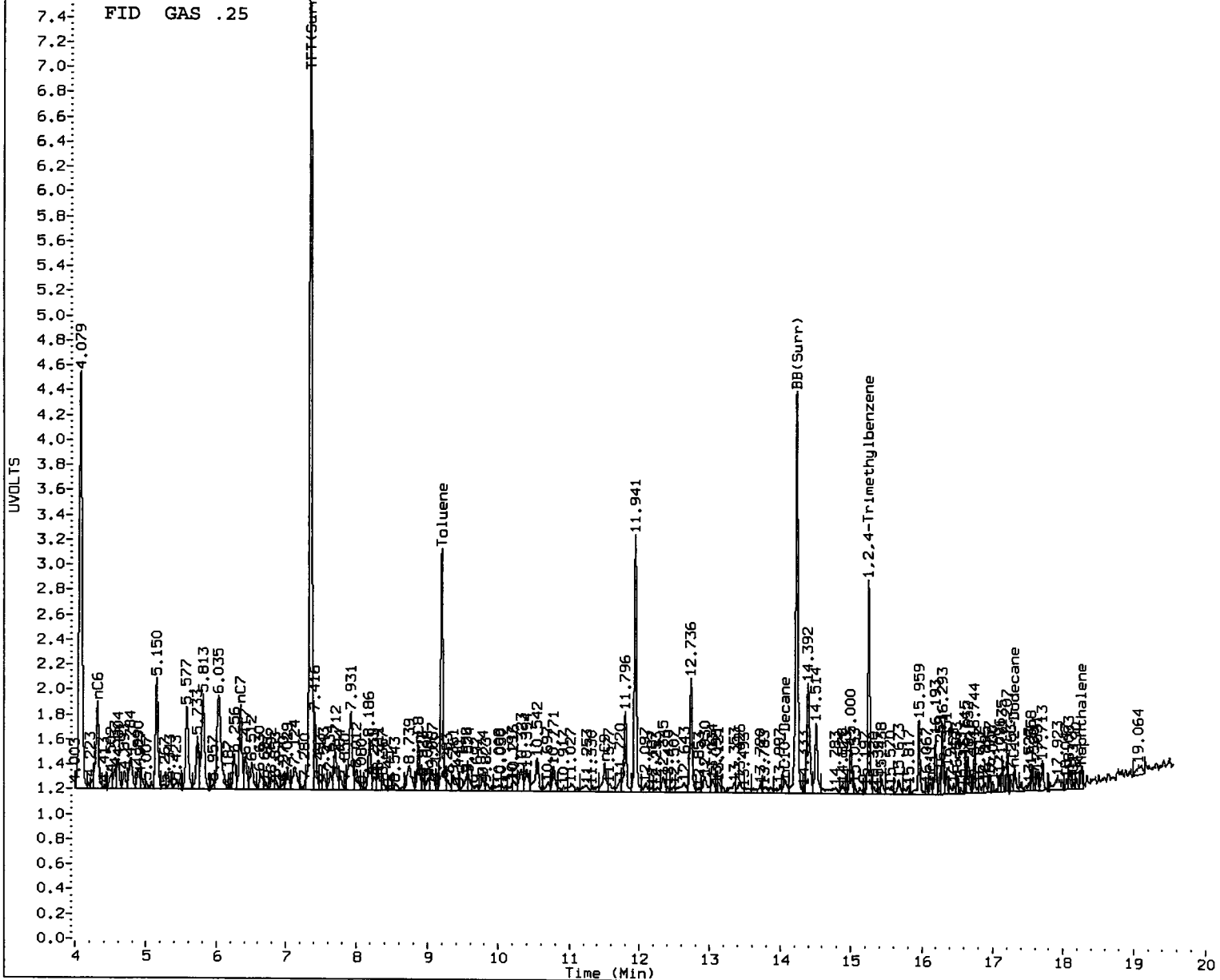
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Data File: /chem3/pid3.1/20110117-2.b/0117a014.d/0117a014.cdf
 Injection Date: 17-JAN-2011 16:17
 Instrument: pid3.1
 Client Sample ID:



AIA 0117a014.cdf: 0.000 to 19.591 MIN



MANUAL INTEGRATION

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

Analyst: _____ Date: _____

MH
1/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110117-2.b/0117a015.d ARI ID: GAS 1
Data file 2: /chem3/pid3.i/20110117-1.b/0117a015.d Client ID:
Method: /chem3/pid3.i/20110117-1.b/PIDB.m Injection Date: 17-JAN-2011 16:44
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.354	-0.003	7146	90208	102.5	TFT(Surr)
14.229	-0.003	3291	46038	100.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.10 to 17.46)	905544	763158	0.843 M
8015B 2MP-TMB (3.72 to 15.35)	1702573	1615358	0.949 M
AK101 nC6-nC10 (4.22 to 13.99)	1177929	1111862	0.944 M
NWTPHG Tol-Nap (9.10 to 18.36)	942411	800736	0.850 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
7.353	-0.003	20102	99.0	TFT(Surr)
14.228	-0.003	33984	101.4	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
6.506	-0.003	3622	2.61	Benzene
9.196	-0.005	38662	29.75	Toluene
11.794	-0.007	10953	9.71	Ethylbenzene
11.940	-0.009	42643	34.54	M/P-Xylene
12.735	-0.007	15663	14.04	O-Xylene
4.081	-0.002	47457	103.39	MTBE

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

Data File: /chem3/pid3.1/20110117-2.b/0117a015.d

Date: 17-JAN-2011 16:44

Client ID:

Sample Info: GAS 1

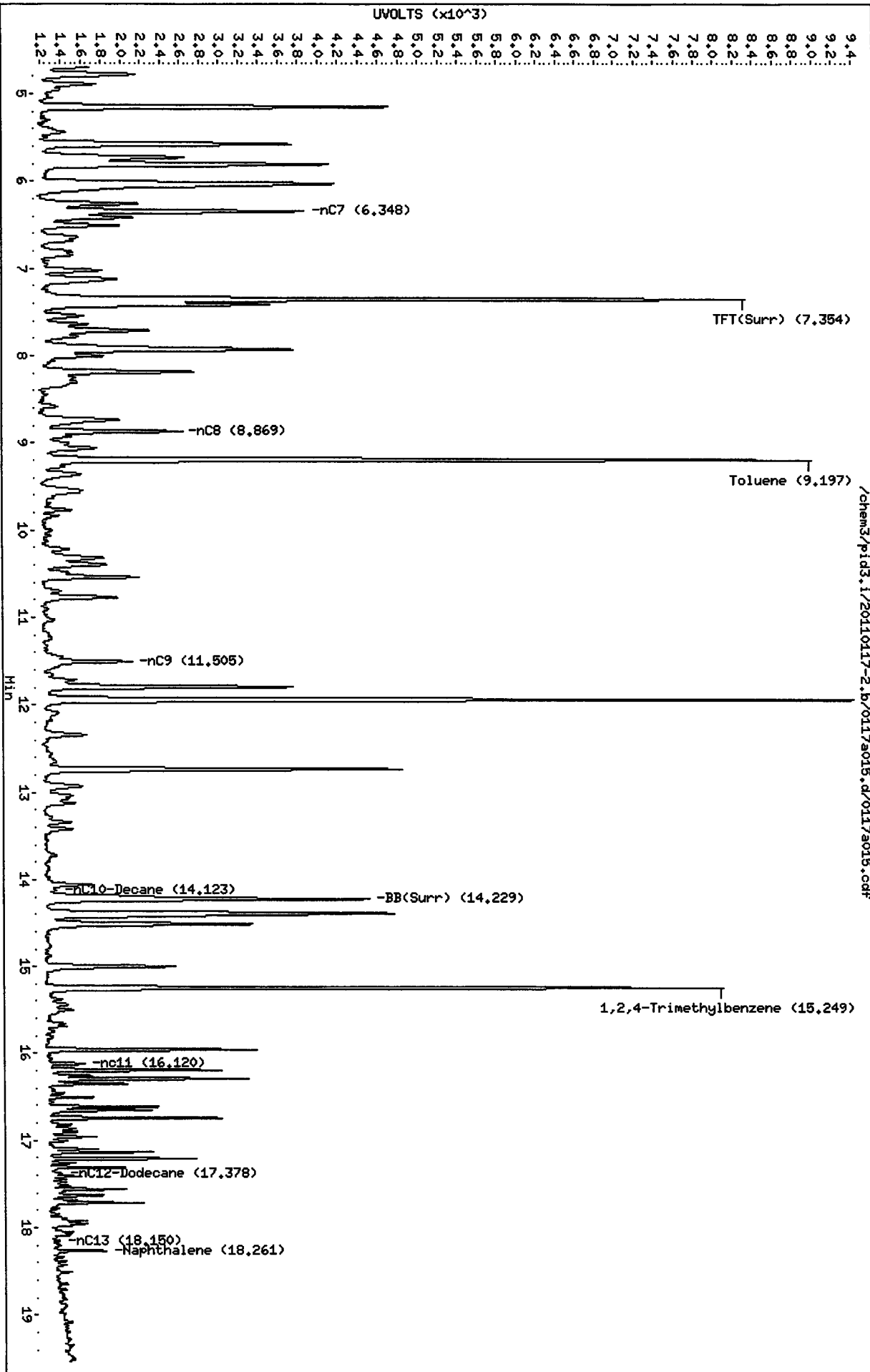
Column phase: RTX 502-2 FID

Instrument: pid3.1

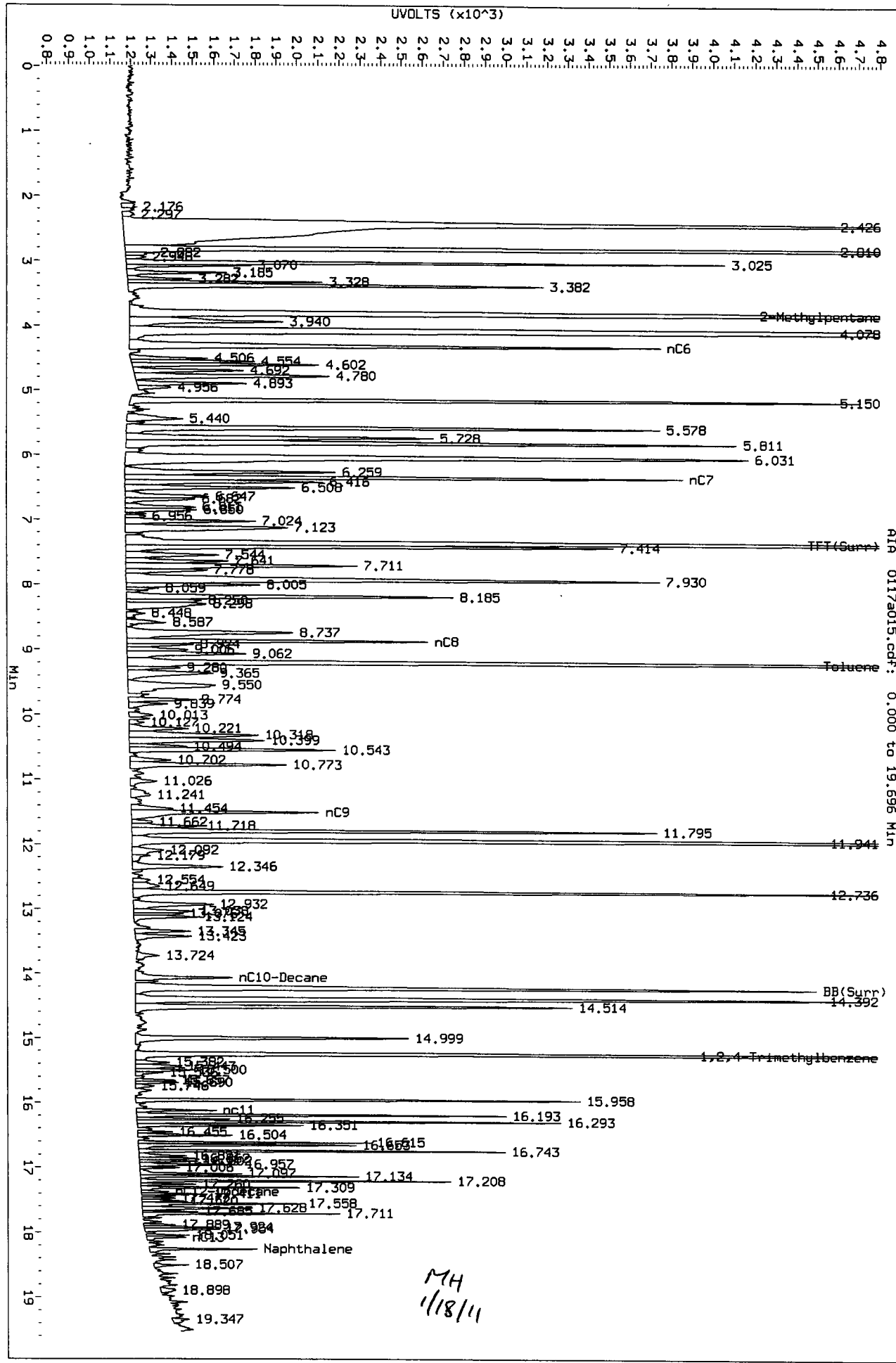
Operator: HH

Column diameter: 0.18

Page 1



Data File: /chem3/p1d3.1/20110117-2.b/0117a015.d/0117a015.cdf
 Injection Date: 17-JAN-2011 16:44
 Instrument: p1d3.1
 Client Sample ID:



MA
1/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110117-2.b/0117a016.d ARI ID: GAS 2.5
Data file 2: /chem3/pid3.i/20110117-1.b/0117a016.d Client ID:
Method: /chem3/pid3.i/20110117-1.b/PIDB.m Injection Date: 17-JAN-2011 17:10
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.354	-0.002	7816	102932	112.1	TFT(Surr)
14.229	-0.003	3544	65219	107.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.10 to 17.46)	905544	1965024	2.170 M
8015B 2MP-TMB (3.72 to 15.35)	1702573	3940040	2.314 M
AK101 nC6-nC10 (4.22 to 13.99)	1177929	2681330	2.276 M
NWTPHG Tol-Nap (9.10 to 18.36)	942411	2065457	2.192 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
7.353	-0.003	21166	104.3	TFT(Surr)
14.228	-0.002	35364	105.5	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
6.507	-0.002	8915	6.42	Benzene
9.197	-0.004	96951	74.59	Toluene
11.795	-0.007	27080	24.01	Ethylbenzene
11.942	-0.007	106078	85.93	M/P-Xylene
12.735	-0.006	39404	35.33	O-Xylene
4.083	0.000	118424	258.00	MTBE

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

Data File: /chem3/pid3.i/20110117-2.b/0117a016.d

Date: 17-JAN-2011 17:10

Client ID:

Sample Info: GAS 2.5

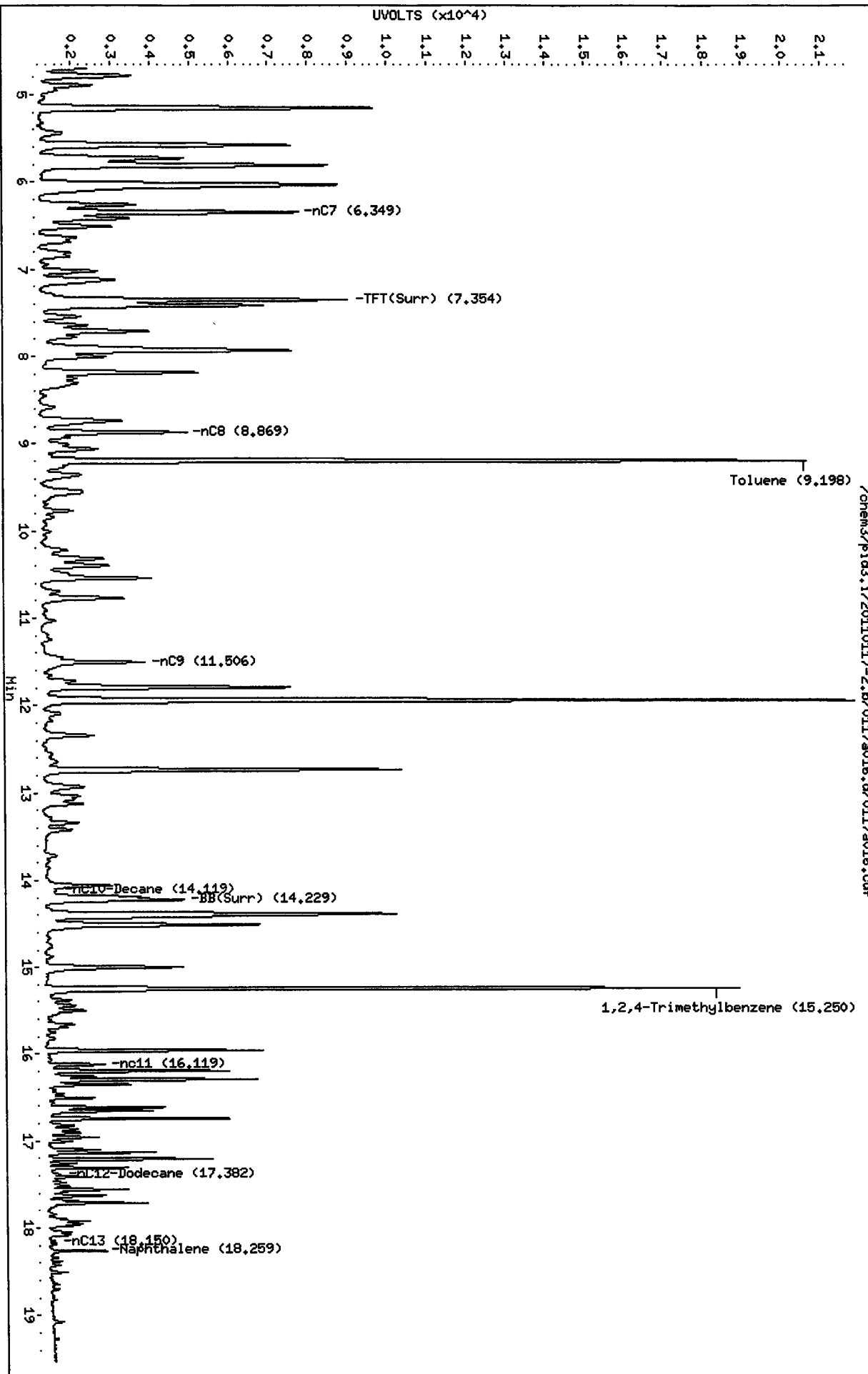
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: MH

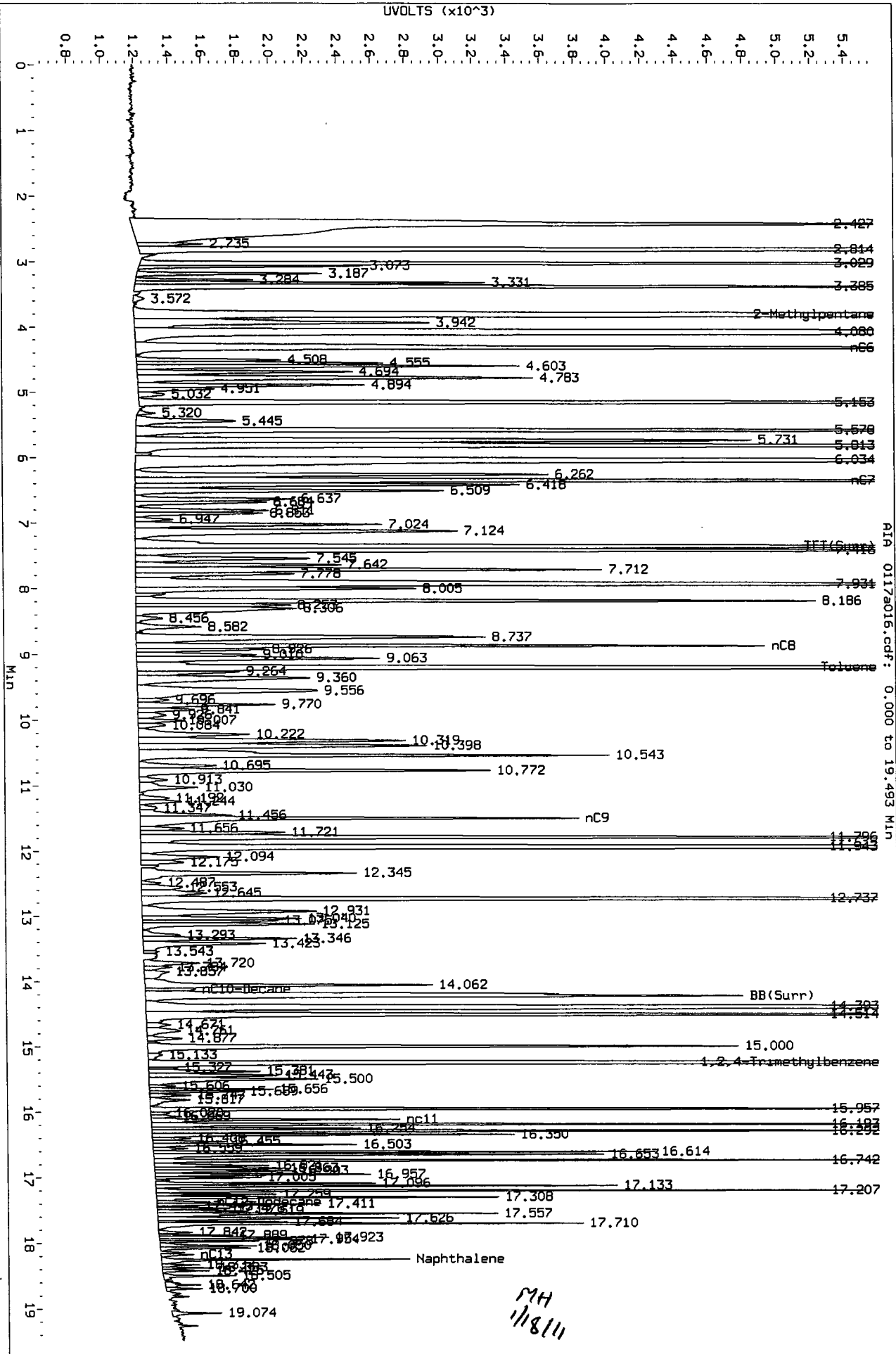
Column diameter: 0.18

Page 1

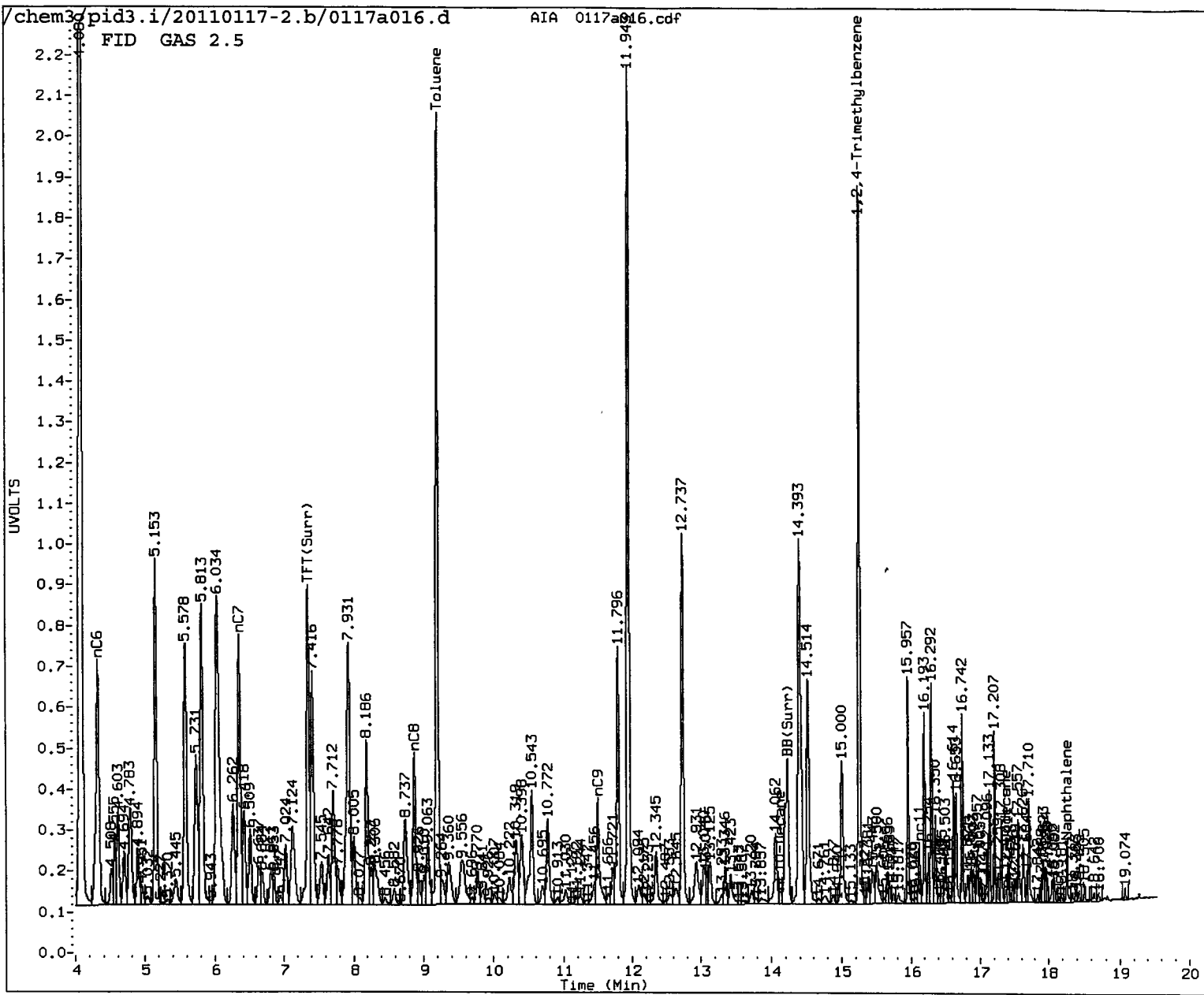


17 JAN 2011 17:10

Data File: /chem3/pid3.1/20110117-2.b/0117a016.d/0117a016.cdf
 Injection Date: 17-JAN-2011 17:10
 Instrument: pid3.1
 Client Sample ID:



AIR 0117a016.cdf: 0.000 to 19.493 MIN



MANUAL INTEGRATION

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

Analyst: MH Date: 1/18/11

MH
1/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110117-2.b/0117a017.d ARI ID: GAS 5
Data file 2: /chem3/pid3.i/20110117-1.b/0117a017.d Client ID:
Method: /chem3/pid3.i/20110117-1.b/PIDB.m Injection Date: 17-JAN-2011 17:36
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	----	----	-----
7.357	0.000	8639	112609	123.9	TFT(Surr)
14.228	-0.005	3803	42161	115.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.10 to 17.46)	905544	4305464	4.755 M
8015B 2MP-TMB (3.72 to 15.35)	1702573	7874986	4.625 M
AK101 nC6-nC10 (4.22 to 13.99)	1177929	5258496	4.464 M
NWTPHG Tol-Nap (9.10 to 18.36)	942411	4507276	4.783 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
--	----	-----	----	-----
7.355	-0.001	21045	103.7	TFT(Surr)
14.228	-0.003	35615	106.3	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
6.509	0.000	16933	12.20	Benzene
9.199	-0.002	183692	141.33	Toluene
11.796	-0.005	52383	46.44	Ethylbenzene
11.945	-0.004	201401	163.14	M/P-Xylene
12.737	-0.004	75015	67.26	O-Xylene
4.086	0.003	215932	470.43	MTBE

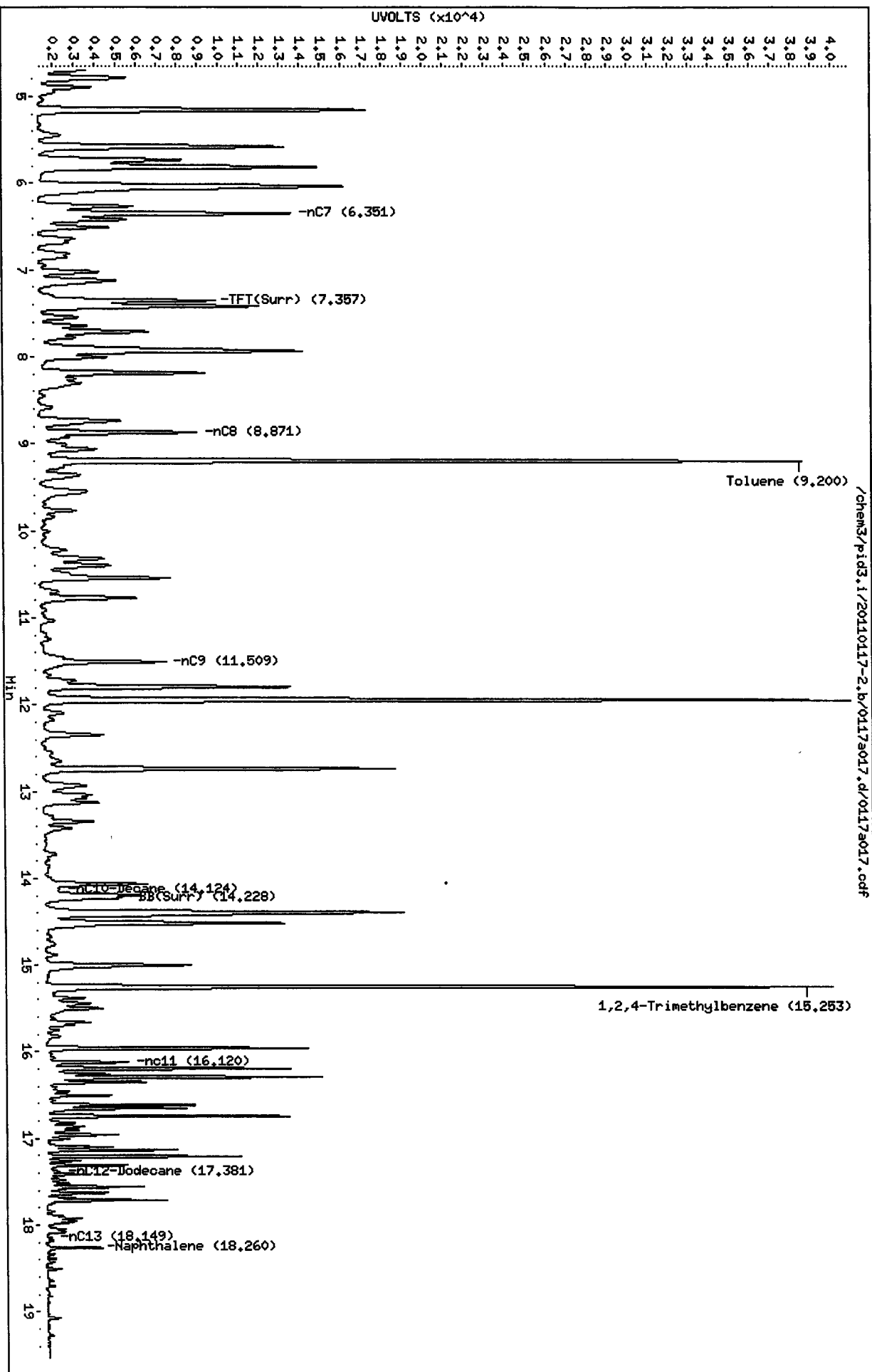
A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

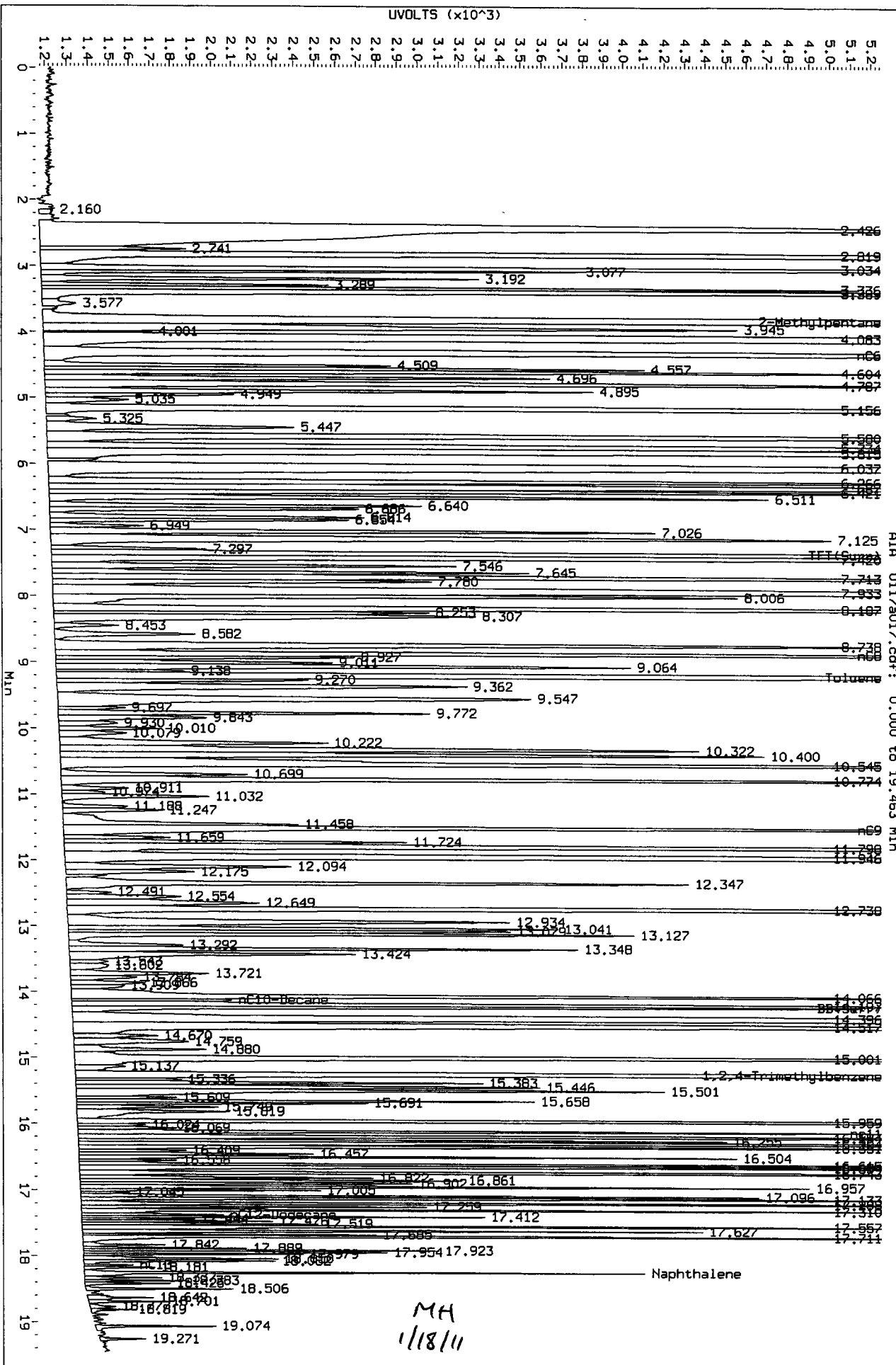
Data File: /chem3/pid3.1/20110117-2.b/0117a017.d
Date: 17-JAN-2011 17:36
Client ID:
Sample Info: GAS 5

Column phase: RTX 502-2 FID

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



Data File: /chem3/p1d3.1/20110117-2.b/0117a017.d/0117a017.cdf
 Injection Date: 17-JAN-2011 17:36
 Instrument: p1d3.1
 Client Sample ID:

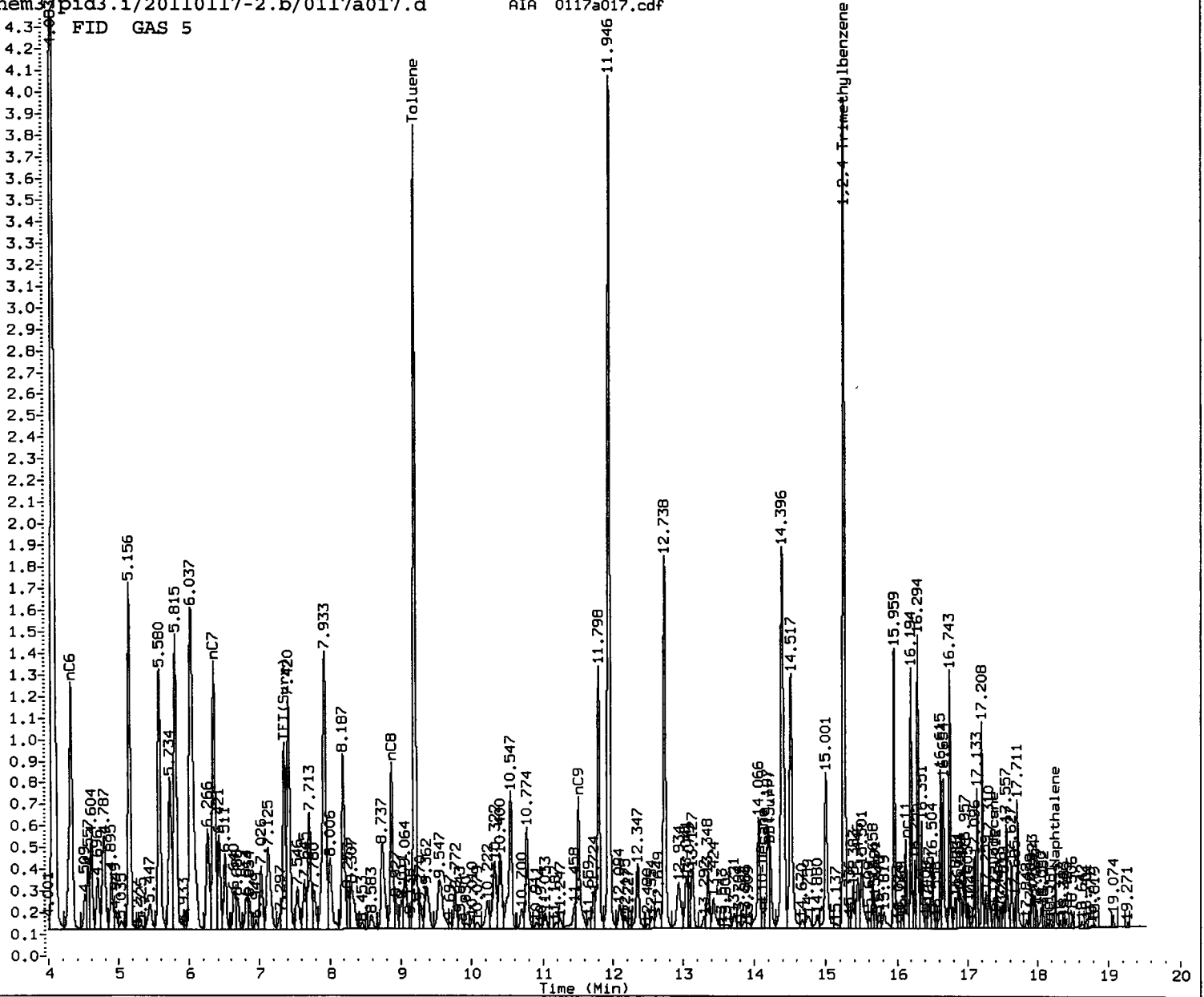


AIA 0117a017.cdf: 0.000 to 19.463 MIN

MH
1/18/11

FID GAS 5

UVOLTS



MANUAL INTEGRATION

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

Analyst: MM Date: 1/18/11

MH
1/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110117-2.b/0117a018.d ARI ID: GAS 20
Data file 2: /chem3/pid3.i/20110117-1.b/0117a018.d Client ID:
Method: /chem3/pid3.i/20110117-1.b/PIDB.m Injection Date: 17-JAN-2011 18:02
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	-----	-----
7.367	0.010	13903	198738	199.4	TFT (Surr)
14.219	-0.013	27842	528528	846.2	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.10 to 17.46)	905544	20103350	22.200
8015B 2MP-TMB (3.72 to 15.35)	1702573	36901916	21.674 M
AK101 nC6-nC10 (4.22 to 13.99)	1177929	26345296	22.366 M
NWTPHG Tol-Nap (9.10 to 18.36)	942411	20330926	21.573

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
--	-----	-----	-----	-----
7.361	0.005	24298	119.7	TFT (Surr)
14.221	-0.010	120541	359.7	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
6.516	0.007	64614	46.56	Benzene
9.211	0.010	654526	503.57	Toluene
11.812	0.011	221836	196.66	Ethylbenzene
11.972	0.022	889304	720.36	M/P-Xylene
12.759	0.018	376318	337.42	O-Xylene
4.102	0.019	690670	1504.71	MTBE

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

Data File: /chem3/pid3.i/20110117-2.b/0117a018.d

Date: 17-JAN-2011 18:02

Client ID:

Sample Info: GAS 20

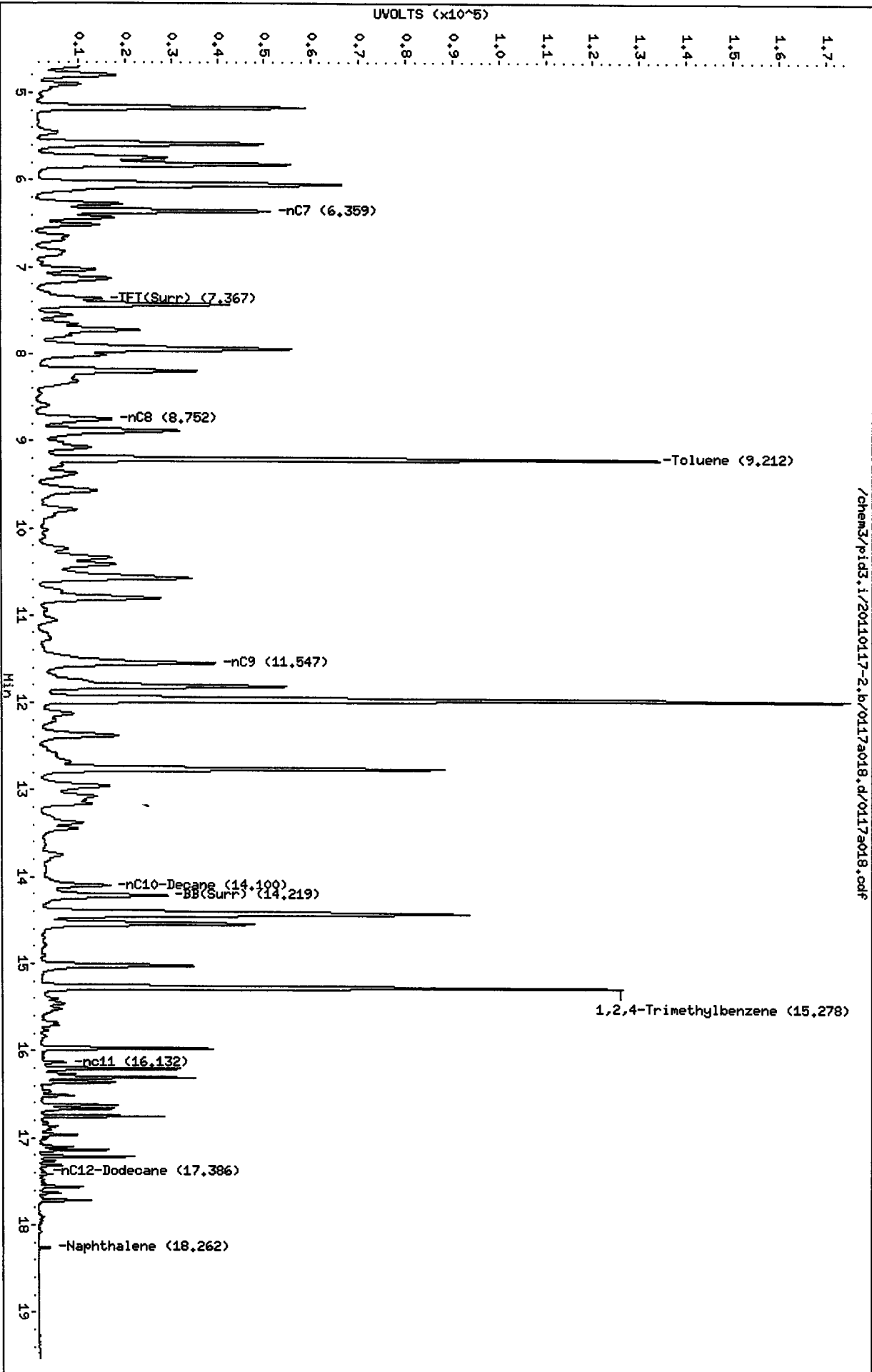
Column phase: RTX 502-2 FID

Instrument: pid3.i

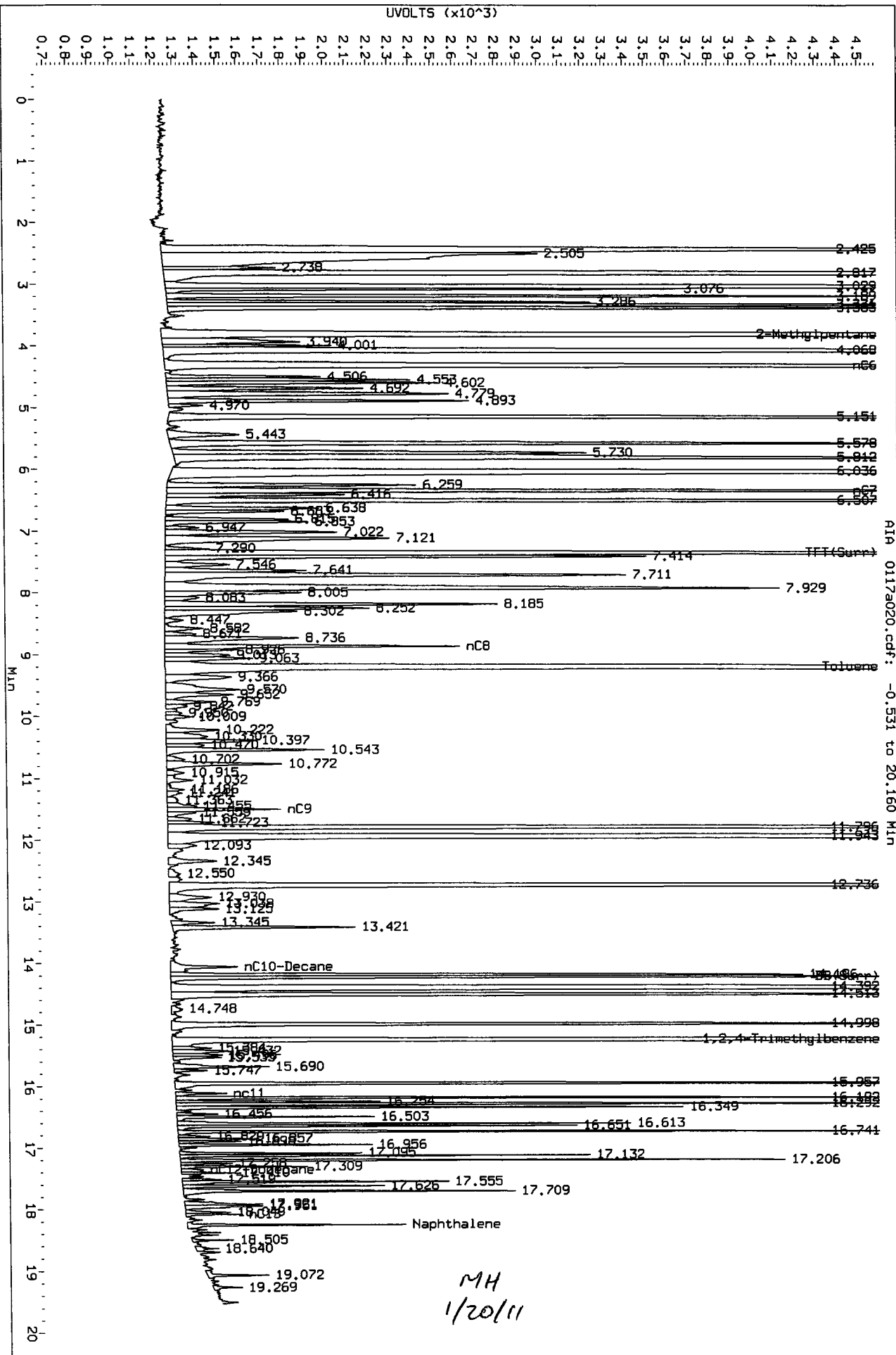
Operator: MH

Column diameter: 0.18

/chem3/pid3.i/20110117-2.b/0117a018.d/0117a018.cdf

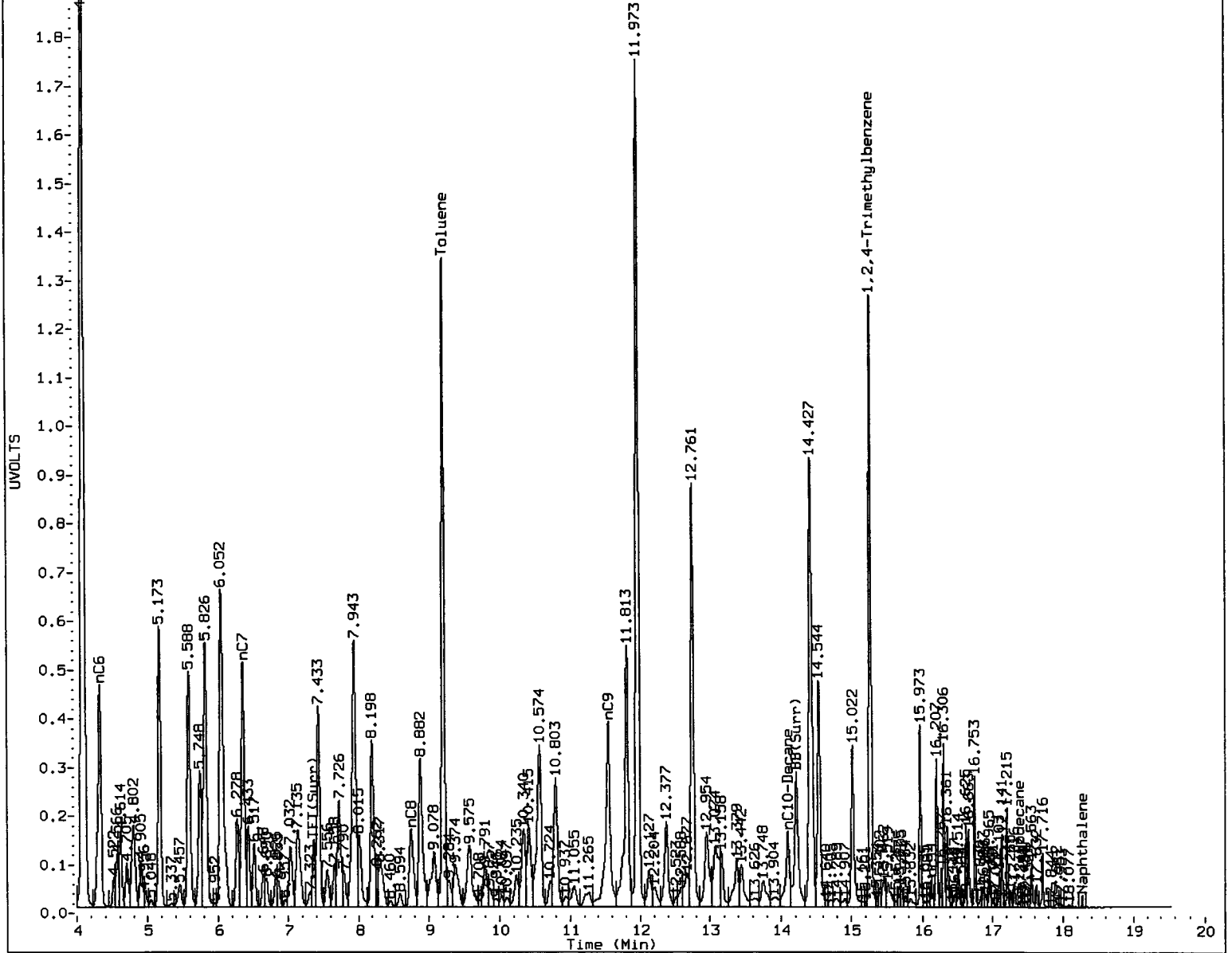


Data File: /chem3/pid3.1/20110117-2.b/0117a020.d/0117a020.cdf
 Injection Date: 17-JAN-2011 18:54
 Instrument: pid3.1
 Client Sample ID:



AIA 0117a020.cdf: -0.531 to 20.160 MIN

FID GAS 20



MANUAL INTEGRATION

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

Analyst: MH Date: 1/18/11

MH
1/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110117-2.b/0117a020.d ARI ID: GAS ICV
Data file 2: /chem3/pid3.i/20110117-1.b/0117a020.d Client ID:
Method: /chem3/pid3.i/20110117-1.b/PIDB.m Injection Date: 17-JAN-2011 18:54
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.354	-0.003	7129	89945	102.3	TFT(Surr)
14.227	-0.005	3408	37306	103.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.10 to 17.46)	905544	2151738	2.376 M
8015B 2MP-TMB (3.72 to 15.35)	1702573	3282449	1.928 M
AK101 nC6-nC10 (4.22 to 13.99)	1177929	2476668	2.103 M
NWTPHG Tol-Nap (9.10 to 18.36)	942411	2199456	2.334 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
7.353	-0.003	20099	99.0	TFT(Surr)
14.227	-0.004	33947	101.3	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
6.506	-0.003	36821	26.53	Benzene
9.199	-0.002	251673	193.63	Toluene
11.795	-0.007	48783	43.25	Ethylbenzene
11.942	-0.007	190068	153.96	M/P-Xylene
12.735	-0.006	68978	61.85	O-Xylene
4.065	-0.018	2426	5.29	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20110117-2.b/0117a020.d

Date: 17-JAN-2011 18:54

Client ID:

Sample Info: GAS ICV

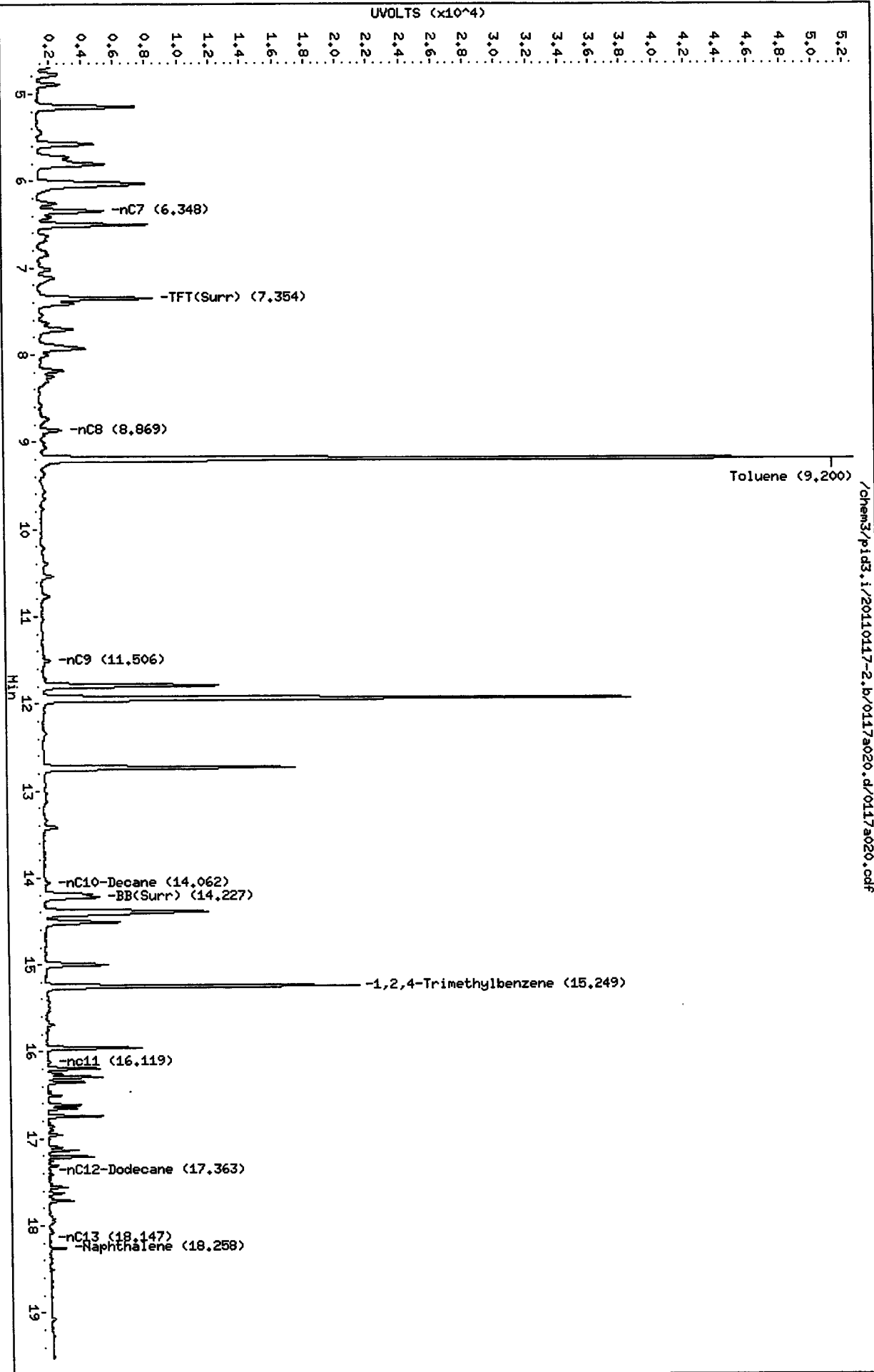
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HH

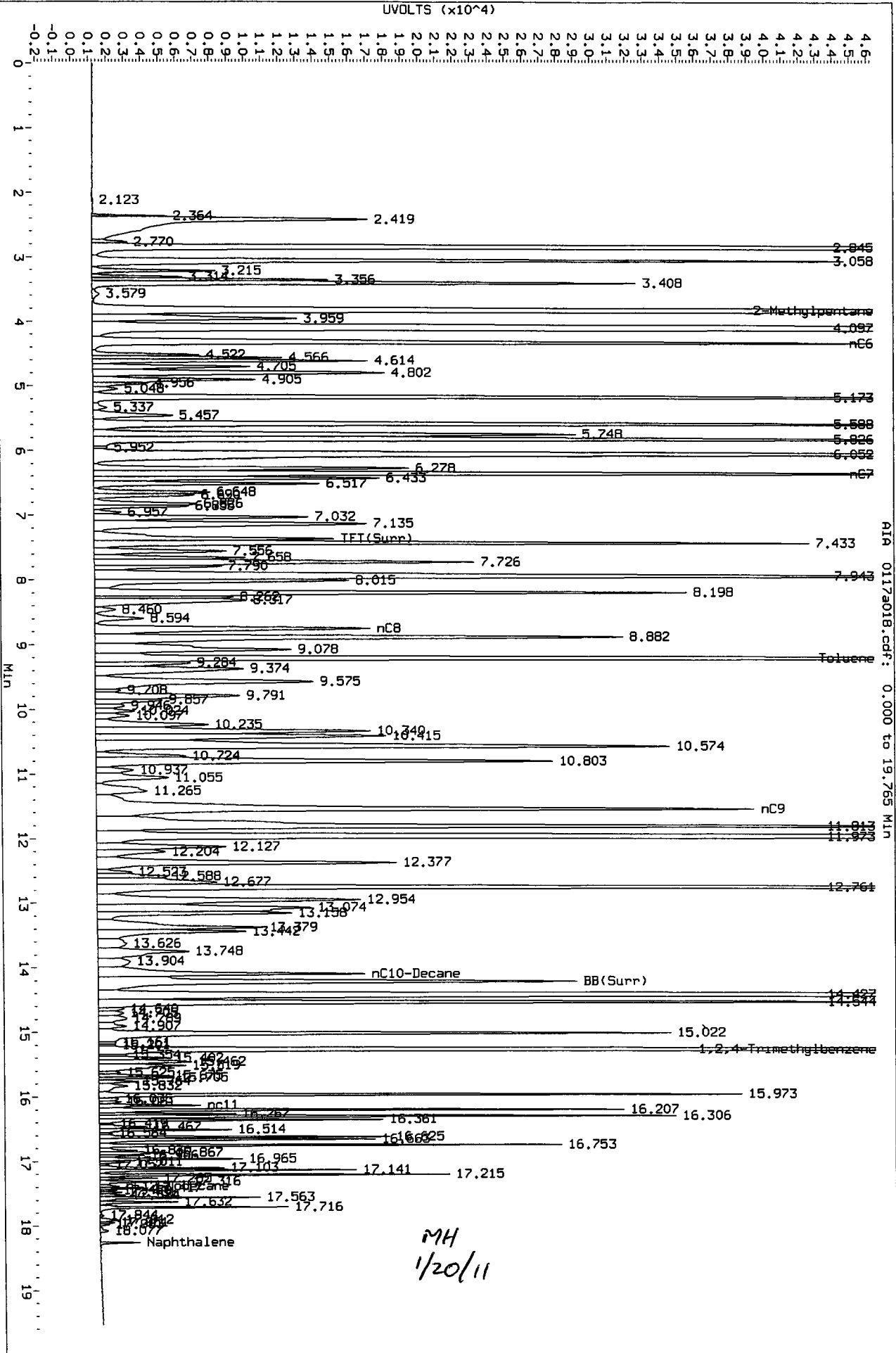
Column diameter: 0.18

Page 1

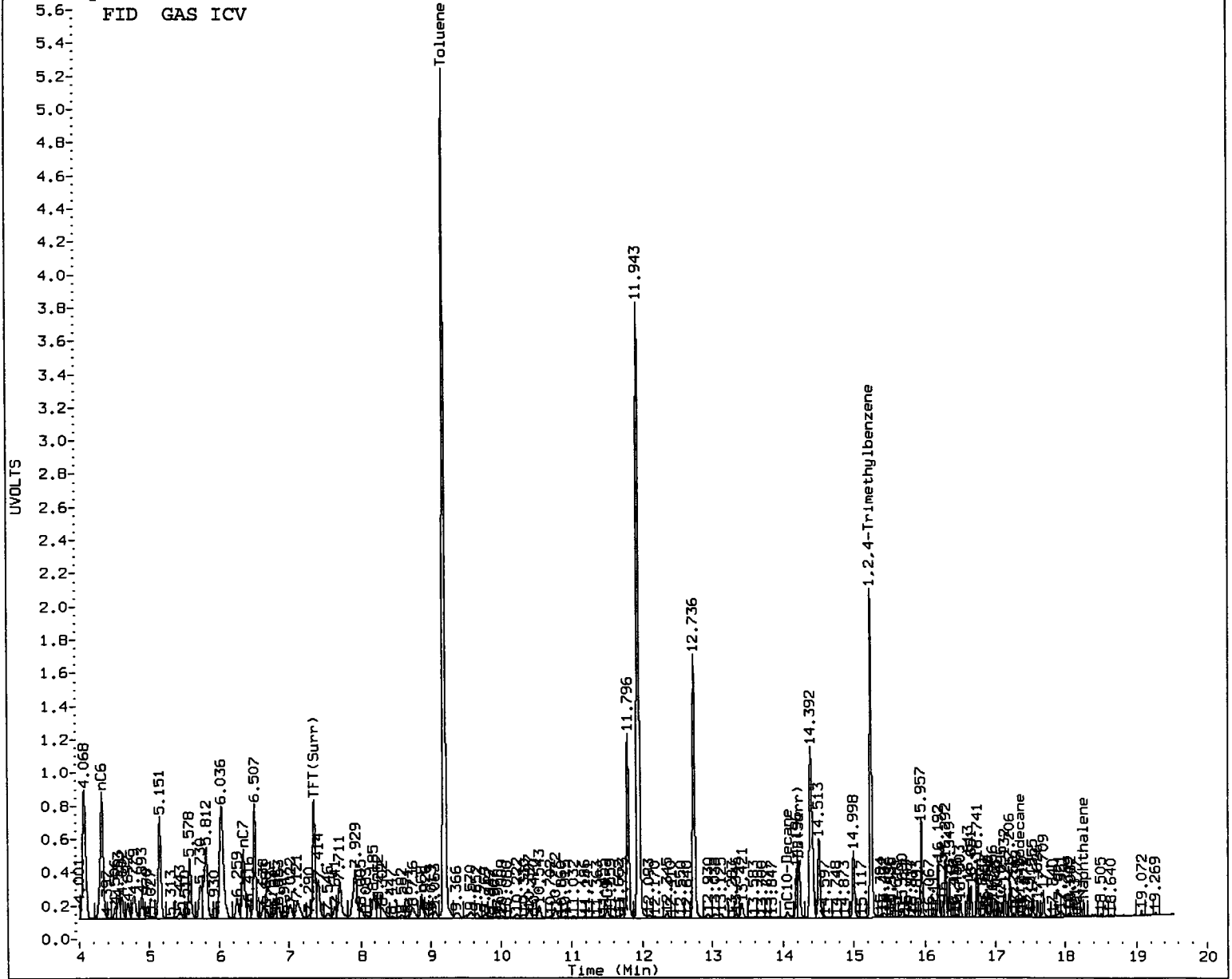


001000 : 26

Data File: /chem3/pid3.1/20110117-2.b/01172018.d/01172018.cdf
 Injection Date: 17-JAN-2011 18:02
 Instrument: pid3.1
 Client Sample ID:



AIA 01172018.cdf: 0.000 to 19.765 MIN



MANUAL INTEGRATION

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

Analyst: MT Date: 1/18/11

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid3.i/20110117-2.b/FID.m
Batch File: /chem3/pid3.i/20110117-2.b
Inst ID: pid3.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 2-Methylpentane	3.811	3.811	3.812	3.814	3.816	3.828	3.815	3.745-3.885	3.815	0.007
18 WAGAS	+++++	+++++	+++++	+++++	+++++	+++++	1.324	1.254-1.394	+++++	+++++
19 8015B	+++++	+++++	+++++	+++++	+++++	+++++	0.767	0.697-0.837	+++++	+++++
20 AK101	+++++	+++++	+++++	+++++	+++++	+++++	0.952	0.882-1.022	+++++	+++++
21 NWGAS	+++++	+++++	+++++	+++++	+++++	+++++	1.094	1.024-1.164	+++++	+++++
2 nC6	4.315	4.314	4.315	4.319	4.322	4.330	4.316	4.246-4.386	4.319	0.006
3 nC7	6.351	6.348	6.348	6.349	6.351	6.359	6.349	6.279-6.419	6.351	0.004
4 TFT(Surr)	7.355	7.354	7.354	7.354	7.357	7.367	7.357	7.287-7.427	7.357	0.005
5 nC8	8.874	8.871	8.869	8.869	8.871	8.752	8.806	8.736-8.876	8.851	0.049
6 Toluene	9.198	9.197	9.197	9.198	9.200	9.212	9.202	9.132-9.272	9.200	0.006
7 nC9	11.509	11.506	11.505	11.506	11.509	11.547	11.506	11.436-11.576	11.514	0.017
8 nC10-Decane	14.054	14.063	14.123	14.119	14.124	14.100	14.095	14.025-14.165	14.097	0.031
9 BB(Surr)	14.230	14.229	14.229	14.229	14.228	14.219	14.232	14.162-14.302	14.227	0.004
10 1,2,4-Trimethylbenzene	15.249	15.248	15.249	15.250	15.253	15.278	15.253	15.183-15.323	15.254	0.012
11 nC11	16.117	16.124	16.120	16.119	16.120	16.132	16.124	16.054-16.194	16.122	0.006
12 nC12-Dodecane	17.357	17.310	17.378	17.382	17.381	17.386	17.359	17.289-17.429	17.366	0.029
13 nC13	18.150	18.143	18.150	18.150	18.149	+++++	18.148	18.078-18.218	18.148	0.003

Reviewer 1 MT Date: 1/18/11
Reviewer 2 _____ Date: _____

01
02
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06

Report Date : 18-Jan-2011 11:36

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid3.i/20110117-2.b/FID.m
Batch File: /chem3/pid3.i/20110117-2.b
Inst ID: pid3.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
14 Naphthalene	18.257	18.260	18.261	18.259	18.260	18.262	18.260	18.190-18.330	18.260	0.002

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2011 11:55
 End Cal Date : 17-JAN-2011 14:32
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem3/pid3.i/20110117-1.b/PIDB.m
 Cal Date : 18-Jan-2011 07:46 monicah
 Curve Type : Average

Calibration File Names:

Level 1: /chem3/pid3.i/20110117-1.b/0117a004.d
 Level 2: /chem3/pid3.i/20110117-1.b/0117a005.d
 Level 3: /chem3/pid3.i/20110117-1.b/0117a006.d
 Level 4: /chem3/pid3.i/20110117-1.b/0117a007.d
 Level 5: /chem3/pid3.i/20110117-1.b/0117a008.d
 Level 6: /chem3/pid3.i/20110117-1.b/0117a009.d
 Level 7: /chem3/pid3.i/20110117-1.b/0117a010.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	+++++	382	474	475	487	461		
	475						459	8.407
2 Benzene	1424	1542	1330	1361	1410	1313		
	1334						1388	5.741
4 Toluene	1356	1416	1256	1274	1313	1231		
	1252						1300	5.099
15 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
5 Ethylbenzene	1000	1238	1119	1153	1176	1100		
	1110						1128	6.534
6 M/P-Xylene	1222	1267	1218	1255	1282	1189		
	1209						1235	2.763

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2011 11:55
 End Cal Date : 17-JAN-2011 14:32
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem3/pid3.i/20110117-1.b/PIDB.m
 Cal Date : 18-Jan-2011 07:46 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	1304 1094	1048	1075	1099	1130	1057	1115	7.860
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)	211 202	200	196	207	205	201	203	2.475
\$ 8 BB(Surr)	344 340	331	323	338	335	336	335	2.009

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2011 11:55
 End Cal Date : 17-JAN-2011 14:32
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem3/pid3.i/20110117-2.b/FID.m
 Cal Date : 18-Jan-2011 06:39 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)	74.09091	70.84091	68.52239	71.19000	68.80451	67.52247		
	67.05000						69.71731	3.550
\$ 9 BB(Surr)	35.04545	33.00000	32.46269	32.89000	32.60902	32.19663		
	32.12500						32.90411	3.035

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1/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110117-2.b/0117a004.d ARI ID: BETX .25
Data file 2: /chem3/pid3.i/20110117-1.b/0117a004.d Client ID:
Method: /chem3/pid3.i/20110117-1.b/PIDB.m Injection Date: 17-JAN-2011 11:55
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.357	0.000	1630	20581	23.4	TFT(Surr)
14.232	0.000	771	8367	23.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.10 to 17.46)	905544	12573	0.014
8015B 2MP-TMB (3.72 to 15.35)	1702573	17806	0.010
AK101 nC6-nC10 (4.22 to 13.99)	1177929	15088	0.013
NWTPHG Tol-Nap (9.10 to 18.36)	942411	12573	0.013

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
7.357	0.001	4643	22.9	TFT(Surr)
14.230	-0.001	7558	22.6	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
6.510	0.001	356	0.26N	Benzene
9.197	-0.004	339	0.26N	Toluene
11.800	-0.001	250	0.22N	Ethylbenzene
11.940	-0.009	611	0.49N	M/P-Xylene
12.737	-0.005	326	0.29N	O-Xylene
4.093	0.010	159	0.35N	MTBE

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

Data File: /chem3/pid3.i/20110117-2.b/0117a004.d

Date: 17-JAN-2011 11:55

Client ID:

Sample Info: BETX .25

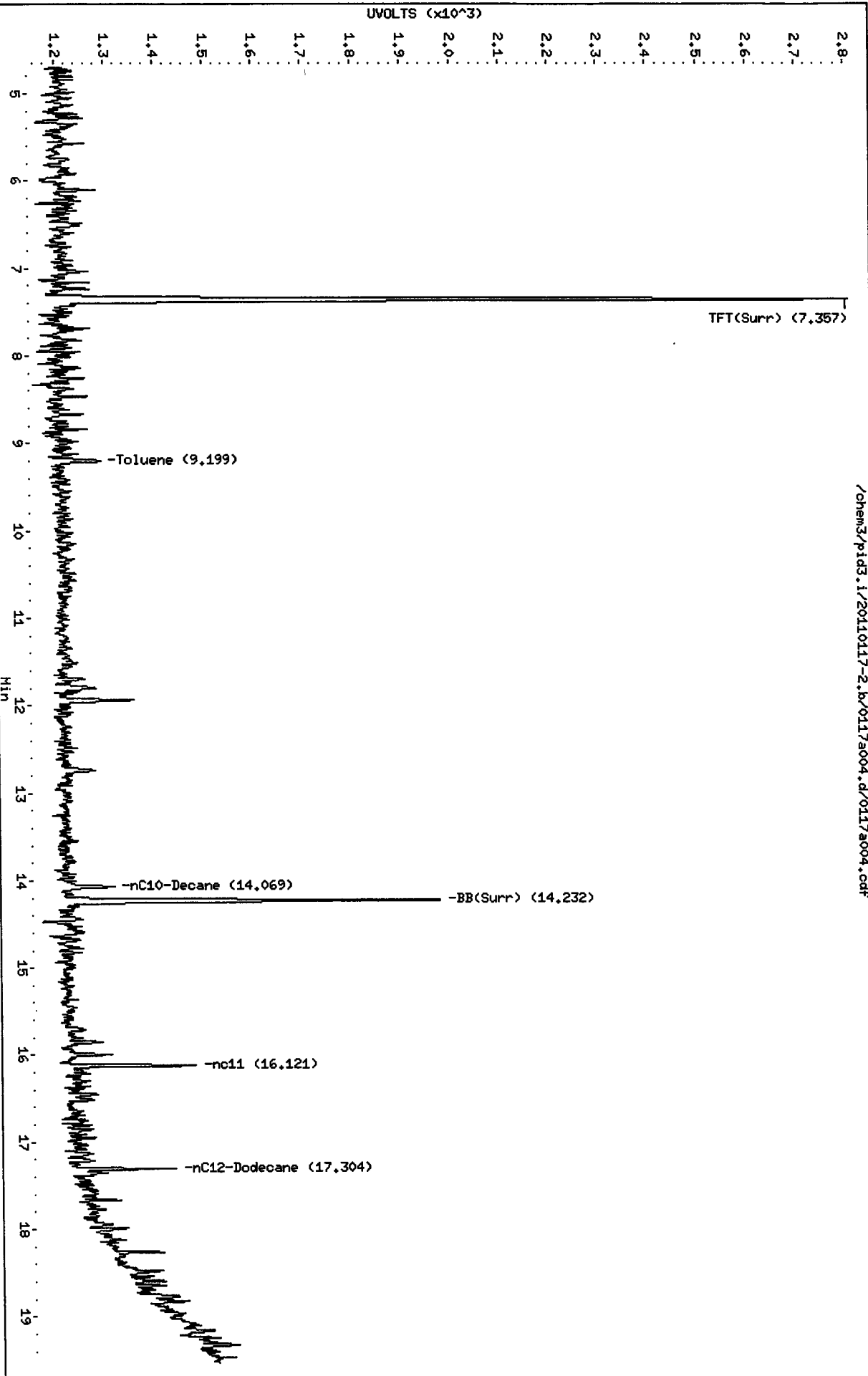
Column phases: RTX 502-2 FID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

Page 1



17 01 11 11:55

Data File: /chem3/pid3.i/20110117-1.b/0117a004.d

Date: 17-JAN-2011 11:55

Client ID:

Sample Info: BETX .25

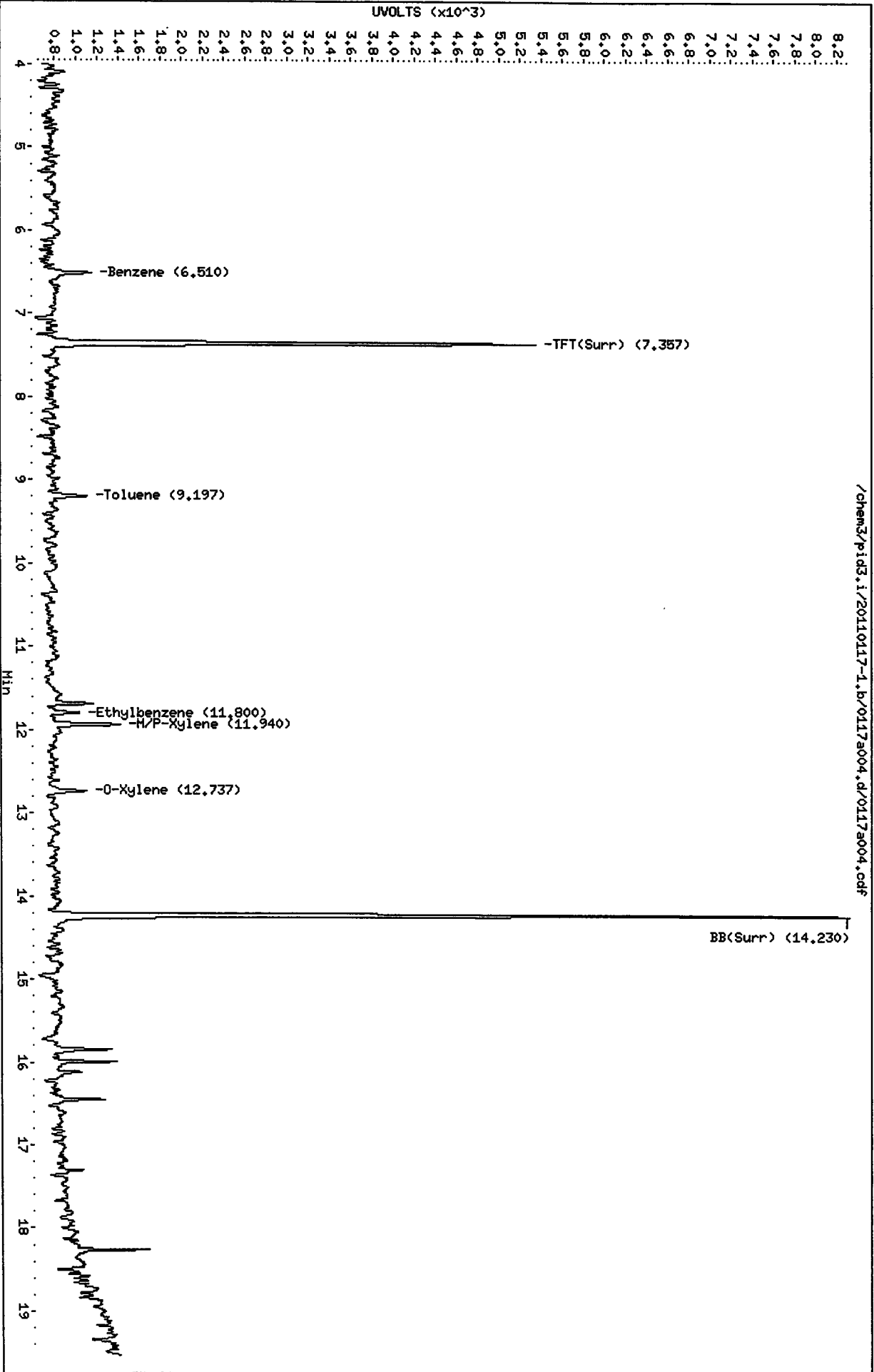
Column phase: RTX 602-2 PID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

Page 1



/chem3/pid3.i/20110117-1.b/0117a004.d/0117a004.cdf

0117019 : 02

MH
1/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110117-2.b/0117a005.d ARI ID: BETX .5
Data file 2: /chem3/pid3.i/20110117-1.b/0117a005.d Client ID:
Method: /chem3/pid3.i/20110117-1.b/PIDB.m Injection Date: 17-JAN-2011 12:21
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.355	-0.002	3117	37779	44.7	TFT(Surr)
14.231	-0.001	1452	14986	44.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.10 to 17.46)	905544	26733	0.030
8015B 2MP-TMB (3.72 to 15.35)	1702573	24520	0.014
AK101 nC6-nC10 (4.22 to 13.99)	1177929	23481	0.020
NWTPHG Tol-Nap (9.10 to 18.36)	942411	27767	0.029

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
7.353	-0.002	8793	43.3	TFT(Surr)
14.229	-0.001	14554	43.4	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
6.507	-0.002	771	0.56N	Benzene
9.197	-0.004	708	0.54N	Toluene
11.796	-0.005	619	0.55	Ethylbenzene
11.939	-0.010	1267	1.03	M/P-Xylene
12.737	-0.005	524	0.47N	O-Xylene
4.087	0.003	191	0.42N	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20110117-2.b/0117a005.d

Date: 17-JAN-2011 12:21

Client ID:

Sample Info: BETX .5

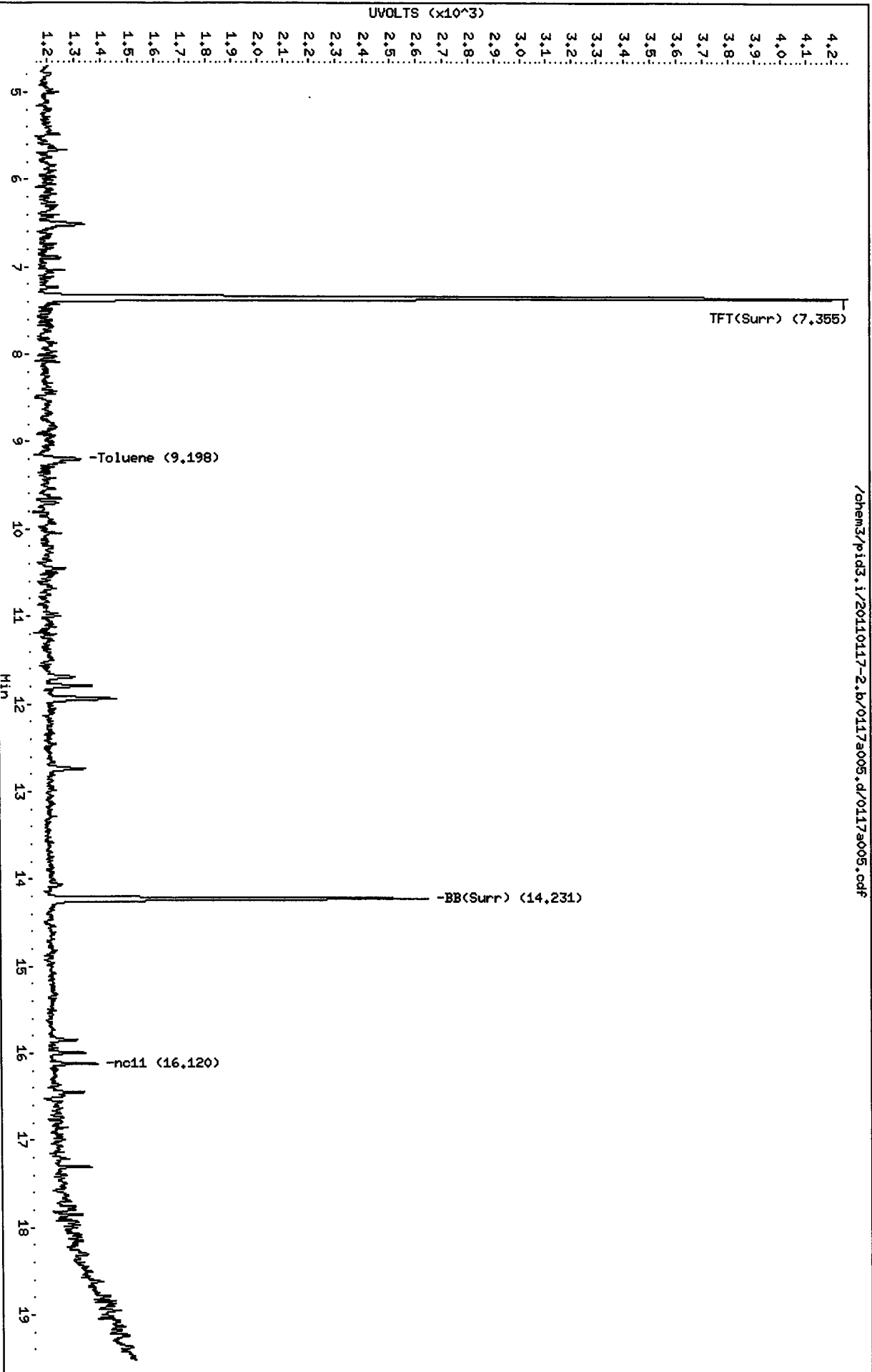
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

Page 1



/chem3/pid3.i/20110117-2.b/0117a005.d/0117a005.cdf

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Data File: /chem3/pid3.i/20110117-1.b/0117a005.d
Date: 17-JAN-2011 12:21

Client ID:

Sample Info: BETX .5

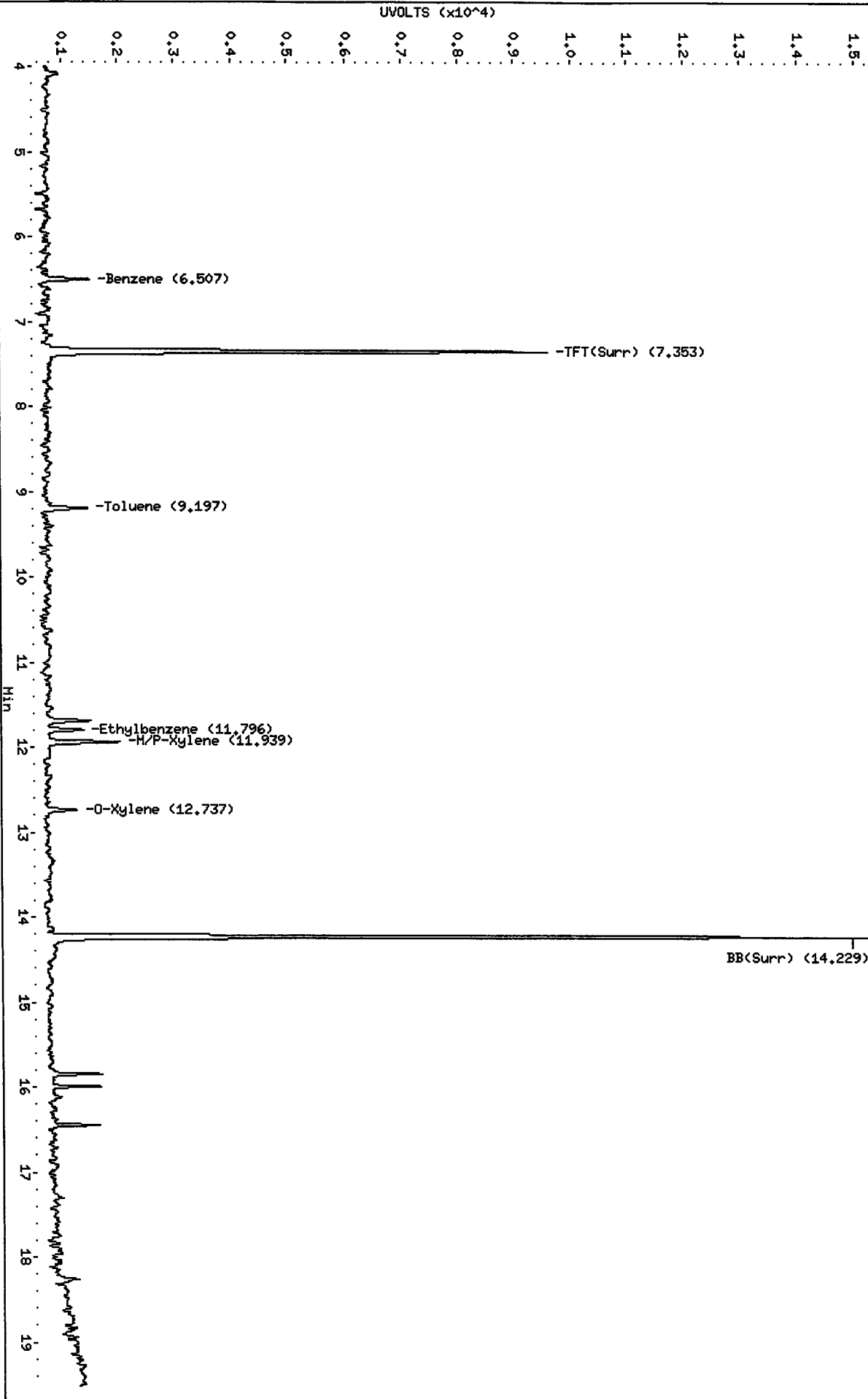
Column phase: RTX 802-2 PID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

/chem3/pid3.i/20110117-1.b/0117a005.d/0117a005.cdf



MH
1/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110117-2.b/0117a006.d ARI ID: BETX 5
Data file 2: /chem3/pid3.i/20110117-1.b/0117a006.d Client ID:
Method: /chem3/pid3.i/20110117-1.b/PIDB.m Injection Date: 17-JAN-2011 12:48
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	----	-----
7.356	-0.001	4591	55200	65.9	TFT (Surr)
14.232	-0.001	2175	24290	66.1	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.10 to 17.46)	905544	136028	0.150
8015B 2MP-TMB (3.72 to 15.35)	1702573	128607	0.076
AK101 nC6-nC10 (4.22 to 13.99)	1177929	118654	0.101
NWTPHG Tol-Nap (9.10 to 18.36)	942411	136028	0.144

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
--	-----	-----	----	-----
7.354	-0.001	13108	64.6	TFT(Surr)
14.230	-0.001	21622	64.5	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
6.507	-0.002	6648	4.79N	Benzene
9.197	-0.004	6282	4.83N	Toluene
11.796	-0.006	5594	4.96	Ethylbenzene
11.939	-0.010	12175	9.86	M/P-Xylene
12.736	-0.006	5373	4.82	O-Xylene
4.084	0.000	2372	5.17	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20110117-2.b/0117a006.d

Date: 17-JAN-2011 12:48

Client ID:

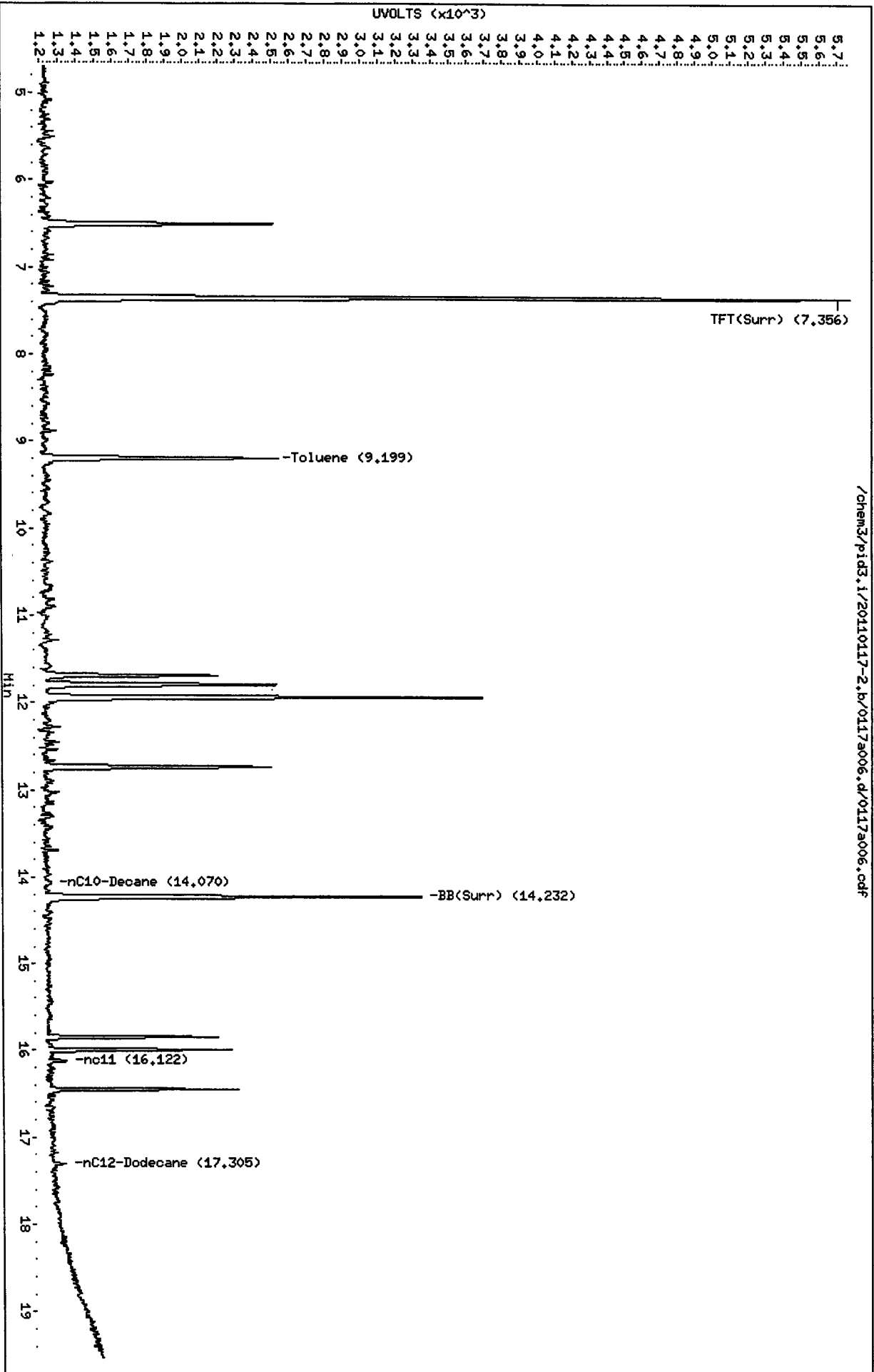
Sample Info: BETX 5

Column phaset: RTX 502-2 FID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18



/chem3/pid3.i/20110117-2.b/0117a006.d/0117a006.cdf

15018 : 0245

Data File: /chem3/pid3.i/20110117-1.b/0117a006.d
Date: 17-JAN-2011 12:48

Client ID:

Sample Info: BETX 5

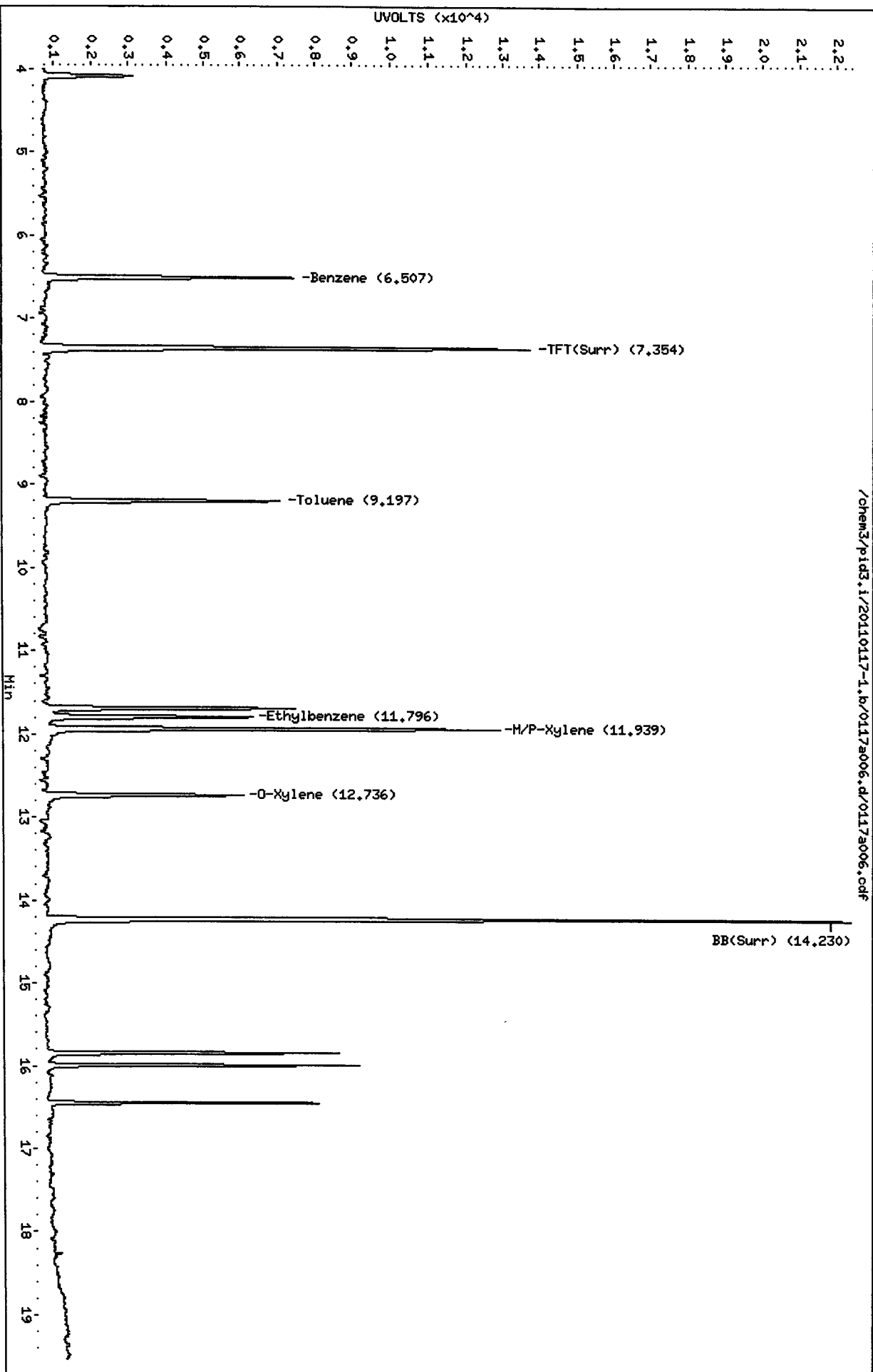
Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

Page 1



/chem3/pid3.i/20110117-1.b/0117a006.d/0117a006.cdf

01170117

MAH
1/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110117-2.b/0117a007.d ARI ID: BETX 25
Data file 2: /chem3/pid3.i/20110117-1.b/0117a007.d Client ID:
Method: /chem3/pid3.i/20110117-1.b/PIDB.m Injection Date: 17-JAN-2011 13:14
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	----	----	-----
7.355	-0.002	7119	84404	102.1	TFT(Surr)
14.231	-0.001	3289	35719	100.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (9.10 to 17.46)	905544	554376	0.612
8015B 2MP-TMB (3.72 to 15.35)	1702573	528064	0.310
AK101 nC6-nC10 (4.22 to 13.99)	1177929	492029	0.418
NWTPHG Tol-Nap (9.10 to 18.36)	942411	556276	0.590

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
--	----	-----	----	-----
7.353	-0.002	20652	101.7	TFT(Surr)
14.230	-0.001	33770	100.8	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
6.507	-0.002	34027	24.52N	Benzene
9.197	-0.004	31838	24.50N	Toluene
11.796	-0.005	28831	25.56	Ethylbenzene
11.940	-0.009	62762	50.84	M/P-Xylene
12.737	-0.005	27467	24.63N	O-Xylene
4.080	-0.003	11876	25.87N	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20110117-2.b/0117a007.d
Date: 17-JAN-2011 13:14
Client ID:
Sample Info: BETX 25

Column phase: RTX 502-2 FID

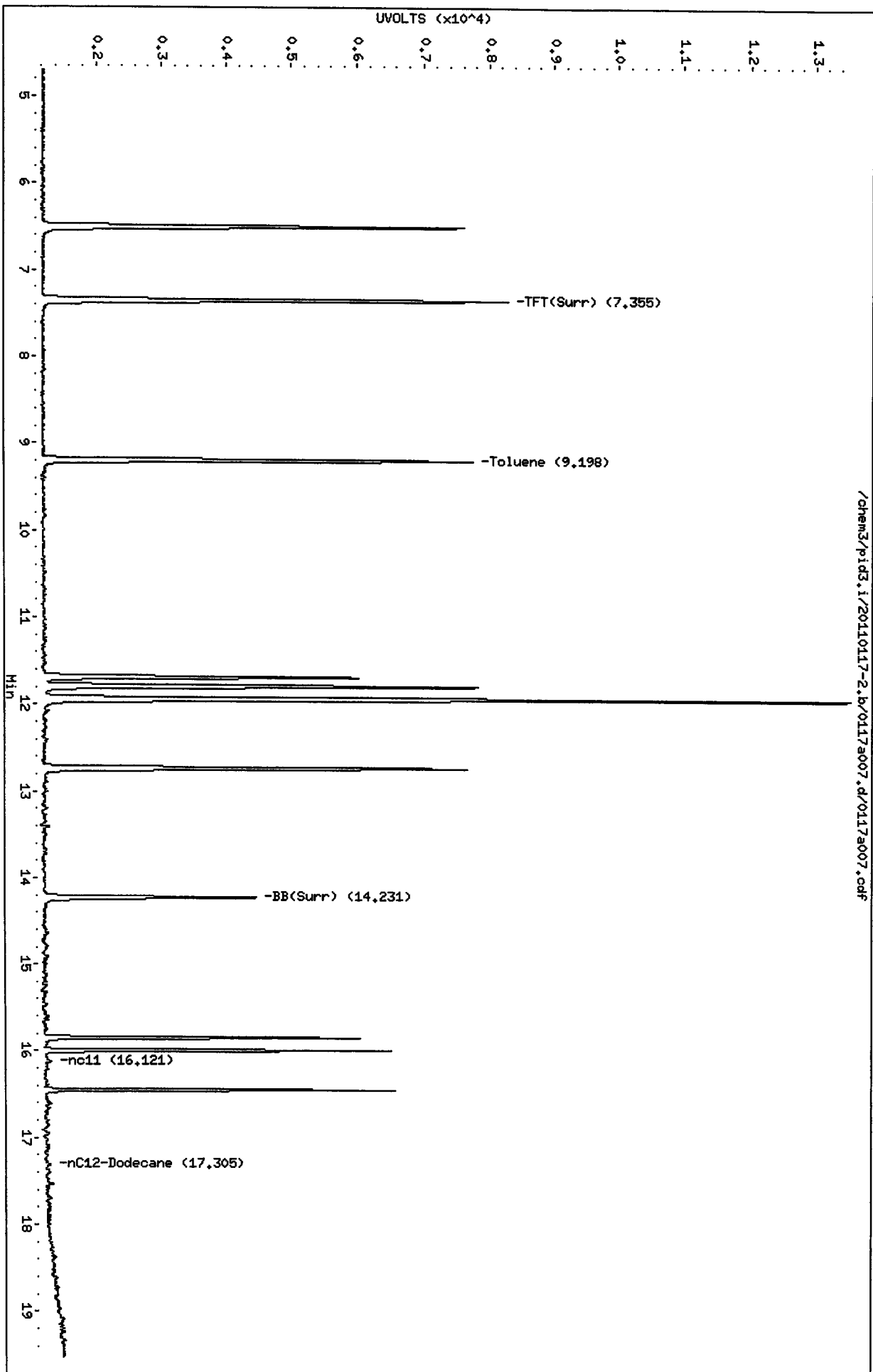
/chem3/pid3.i/20110117-2.b/0117a007.d/0117a007.cdf

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

Page 1



17 12 01 10 : 01 15

Data File: /chem3/pid3.1/20110117-1.b/0117a007.d
Date : 17-JAN-2011 13:14

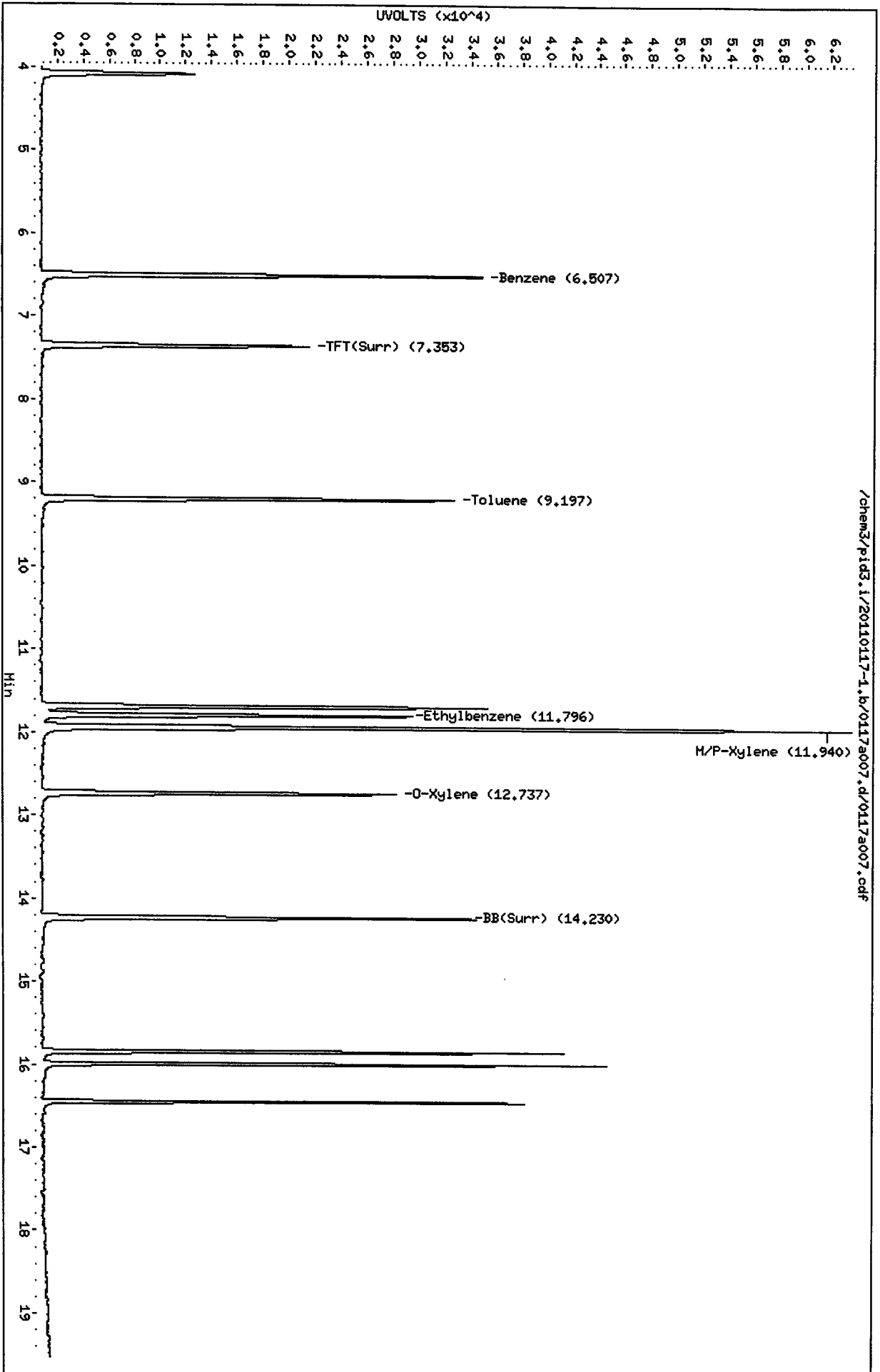
Client ID:
Sample Info: BETX 25

Column phase: RTX 502-2 PID

Instrument: pid3.1

Operator: HH
Column diameter: 0.18

/chem3/pid3.1/20110117-1.b/0117a007.d/0117a007.cdf



24
1/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110117-2.b/0117a008.d ARI ID: BETX 50
Data file 2: /chem3/pid3.i/20110117-1.b/0117a008.d Client ID:
Method: /chem3/pid3.i/20110117-1.b/PIDB.m Injection Date: 17-JAN-2011 13:40
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.354	-0.002	9151	109700	131.3	TFT(Surr)
14.230	-0.002	4337	46806	131.8	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.10 to 17.46)	905544	1070523	1.182
8015B 2MP-TMB (3.72 to 15.35)	1702573	1057875	0.621
AK101 nC6-nC10 (4.22 to 13.99)	1177929	977487	0.830
NWTPHG Tol-Nap (9.10 to 18.36)	942411	1075693	1.141

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
7.353	-0.002	27294	134.4	TFT(Surr)
14.230	-0.001	44606	133.1	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
6.505	-0.004	70522	50.81	Benzene
9.197	-0.004	65648	50.51	Toluene
11.796	-0.005	58794	52.12	Ethylbenzene
11.941	-0.009	128243	103.88	M/P-Xylene
12.736	-0.005	56521	50.68	O-Xylene
4.080	-0.003	24342	53.03	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20110117-2.b/0117a008.d

Date: 17-JAN-2011 13:40

Client ID:

Sample Info: BETX 50

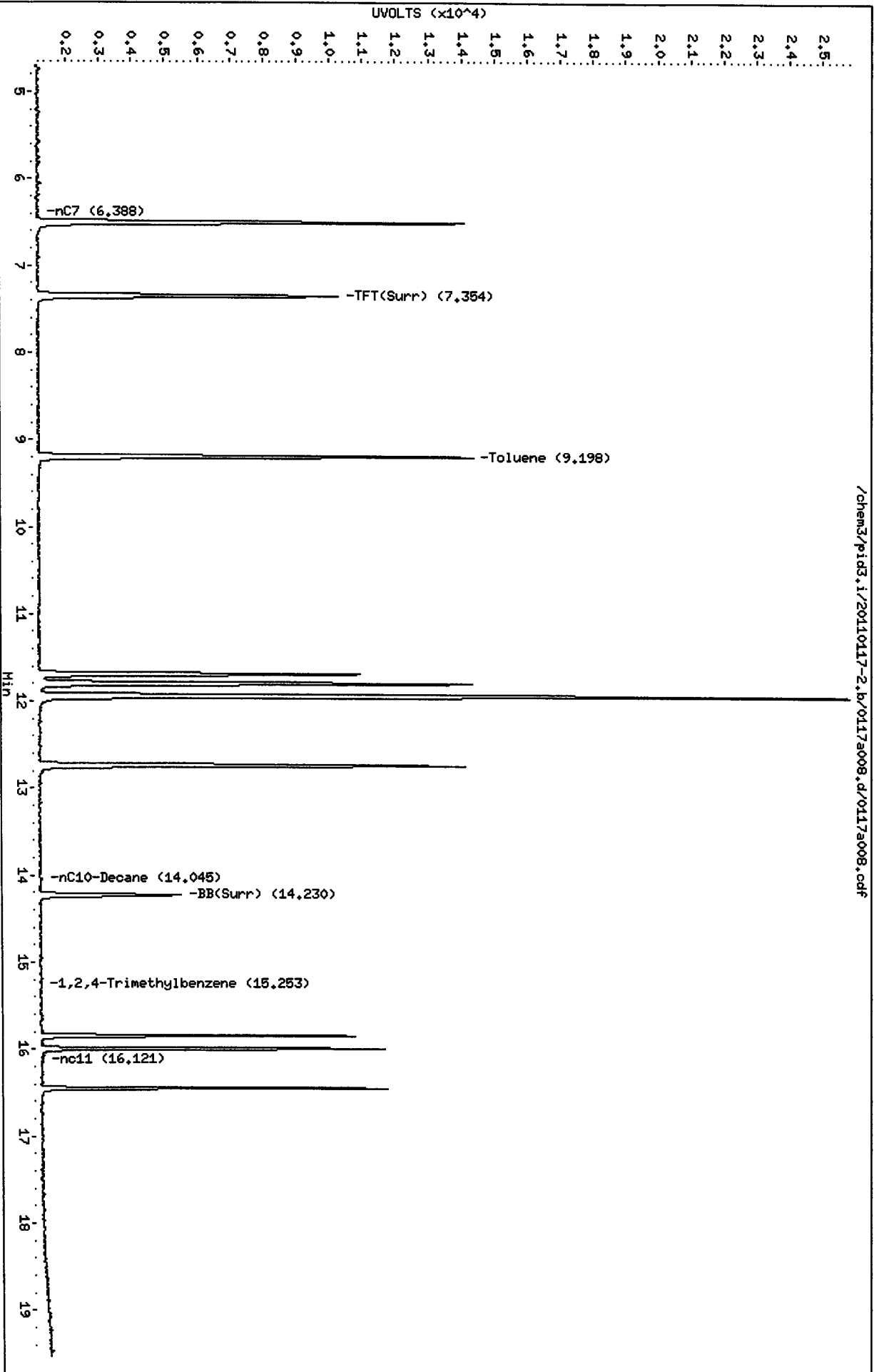
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

/chem3/pid3.i/20110117-2.b/0117a008.d/0117a008.cdf



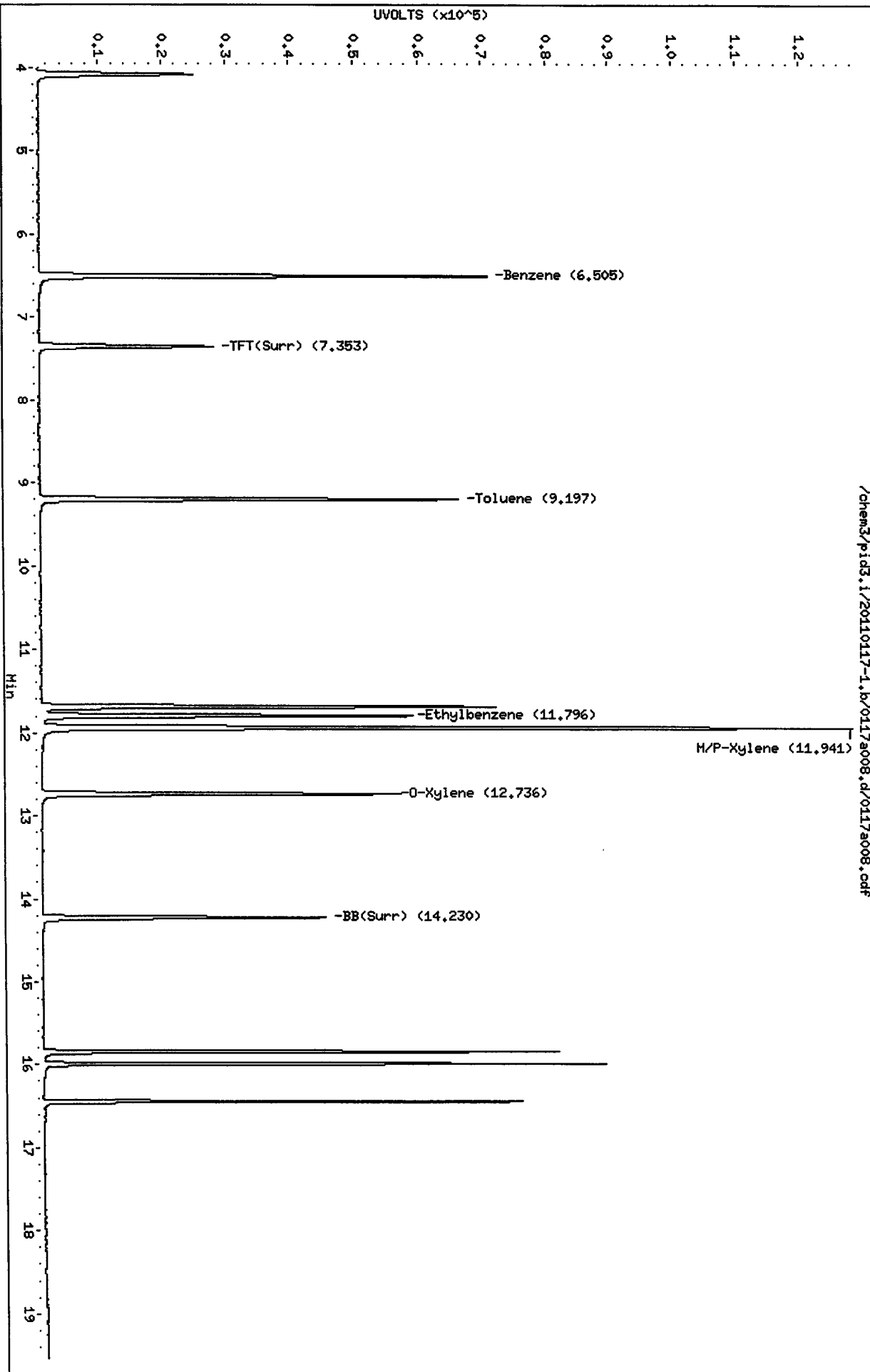
Data File: /chem3/pid3.i/20110117-1.b/0117a008.d
Date: 17-JAN-2011 13:40
Client ID:
Sample Info: BETX 50

Column phase: RTX 502-2 PID

/chem3/pid3.i/20110117-1.b/0117a008.d/0117a008.cdf

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

Page 1



7H
1/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110117-2.b/0117a009.d ARI ID: BETX 100
Data file 2: /chem3/pid3.i/20110117-1.b/0117a009.d Client ID:
Method: /chem3/pid3.i/20110117-1.b/PIDB.m Injection Date: 17-JAN-2011 14:06
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

=====
FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	----	----	-----
7.356	-0.001	12019	143975	172.4	TFT(Surr)
14.231	-0.001	5731	60946	174.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (9.10 to 17.46)	905544	1962890	2.168
8015B 2MP-TMB (3.72 to 15.35)	1702573	1946272	1.143
AK101 nC6-nC10 (4.22 to 13.99)	1177929	1816328	1.542
NWTPHG Tol-Nap (9.10 to 18.36)	942411	1966590	2.087

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
--	----	-----	----	-----
7.355	-0.001	35797	176.3	TFT(Surr)
14.230	-0.001	59781	178.4	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
6.507	-0.002	131333	94.63	Benzene
9.199	-0.002	123140	94.74	Toluene
11.798	-0.003	110019	97.53	Ethylbenzene
11.944	-0.006	237754	192.59	M/P-Xylene
12.738	-0.003	105734	94.80	O-Xylene
4.082	-0.001	46122	100.48	MTBE

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

Data File: /chem3/pid3.i/20110117-2.b/0117a009.d

Date: 17-JAN-2011 14:06

Client ID:

Sample Info: BETX 100

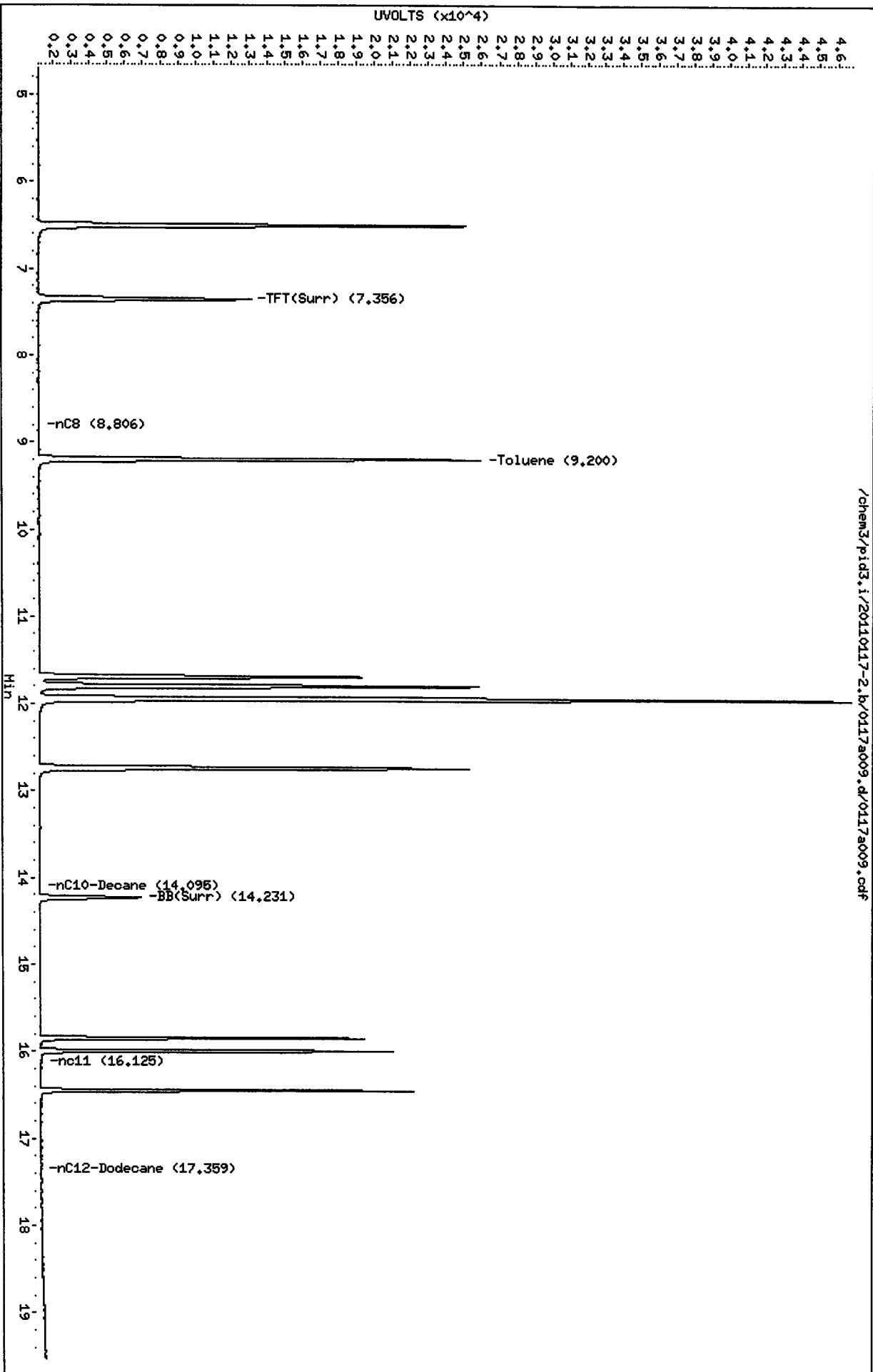
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

/chem3/pid3.i/20110117-2.b/0117a009.d/0117a009.cdf



Data File: /chem3/pid3.i/20110117-1.b/0117a009.d
Date: 17-JAN-2011 14:06

Client ID:

Sample Info: BETX 100

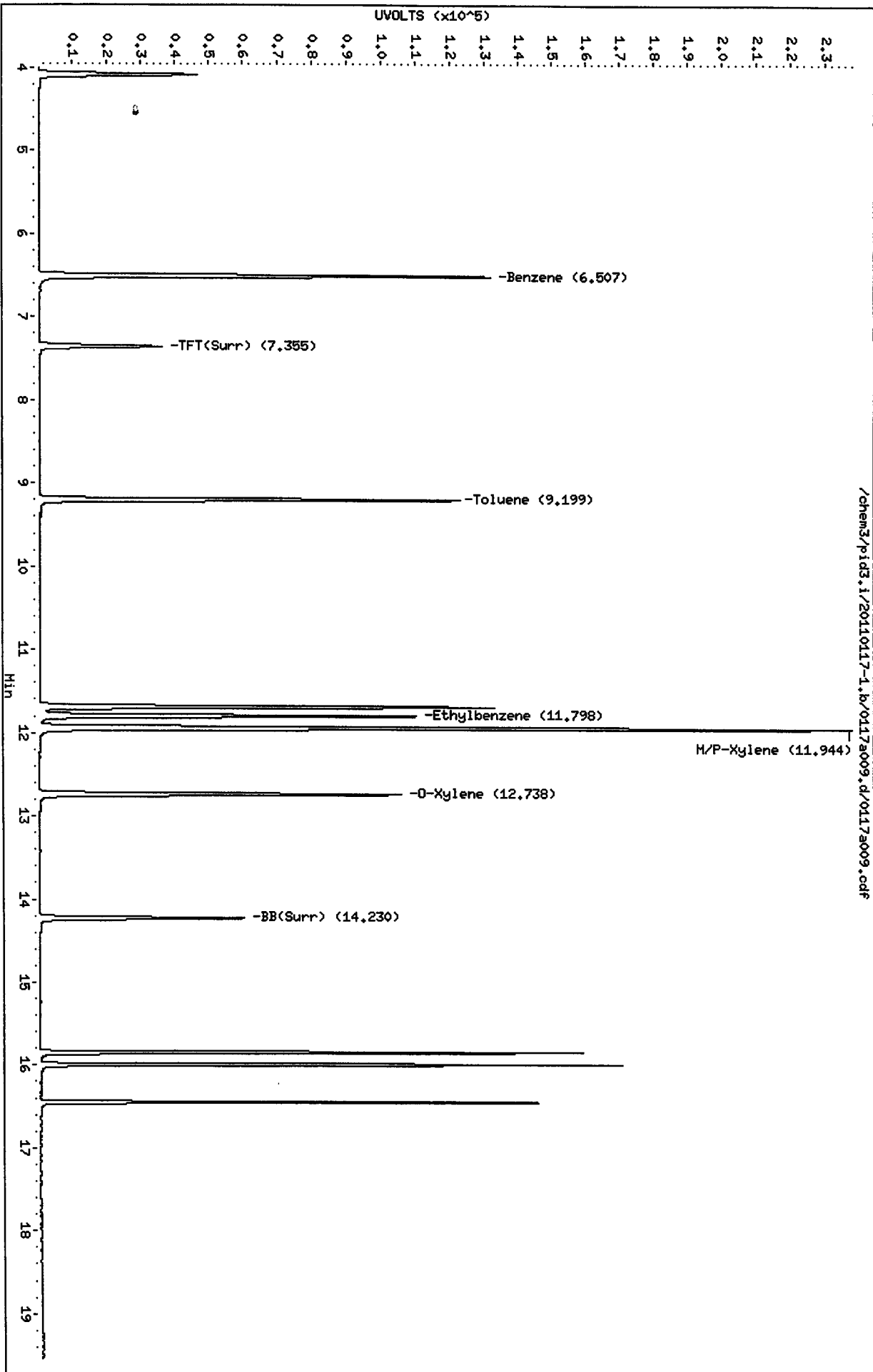
Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

/chem3/pid3.i/20110117-1.b/0117a009.d/0117a009.cdf



M4
1/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110117-2.b/0117a010.d ARI ID: BETX 200
Data file 2: /chem3/pid3.i/20110117-1.b/0117a010.d Client ID:
Method: /chem3/pid3.i/20110117-1.b/PIDB.m Injection Date: 17-JAN-2011 14:32
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.357	0.000	13410	162074	192.3	TFT(Surr)
14.232	0.000	6425	68931	195.3	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.10 to 17.46)	905544	4125951	4.556
8015B 2MP-TMB (3.72 to 15.35)	1702573	3959244	2.325
AK101 nC6-nC10 (4.22 to 13.99)	1177929	3690757	3.133
NWTPHG Tol-Nap (9.10 to 18.36)	942411	4125951	4.378

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
7.356	0.000	40336	198.7	TFT(Surr)
14.231	0.000	67938	202.7	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
6.509	0.000	266893	192.31	Benzene
9.201	0.000	250427	192.67	Toluene
11.801	0.000	222012	196.81	Ethylbenzene
11.949	0.000	483513	391.66	M/P-Xylene
12.741	0.000	218801	196.18	O-Xylene
4.083	0.000	94906	206.76	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20110117-2.b/0117a010.d
Date: 17-JAN-2011 14:32

Client ID:

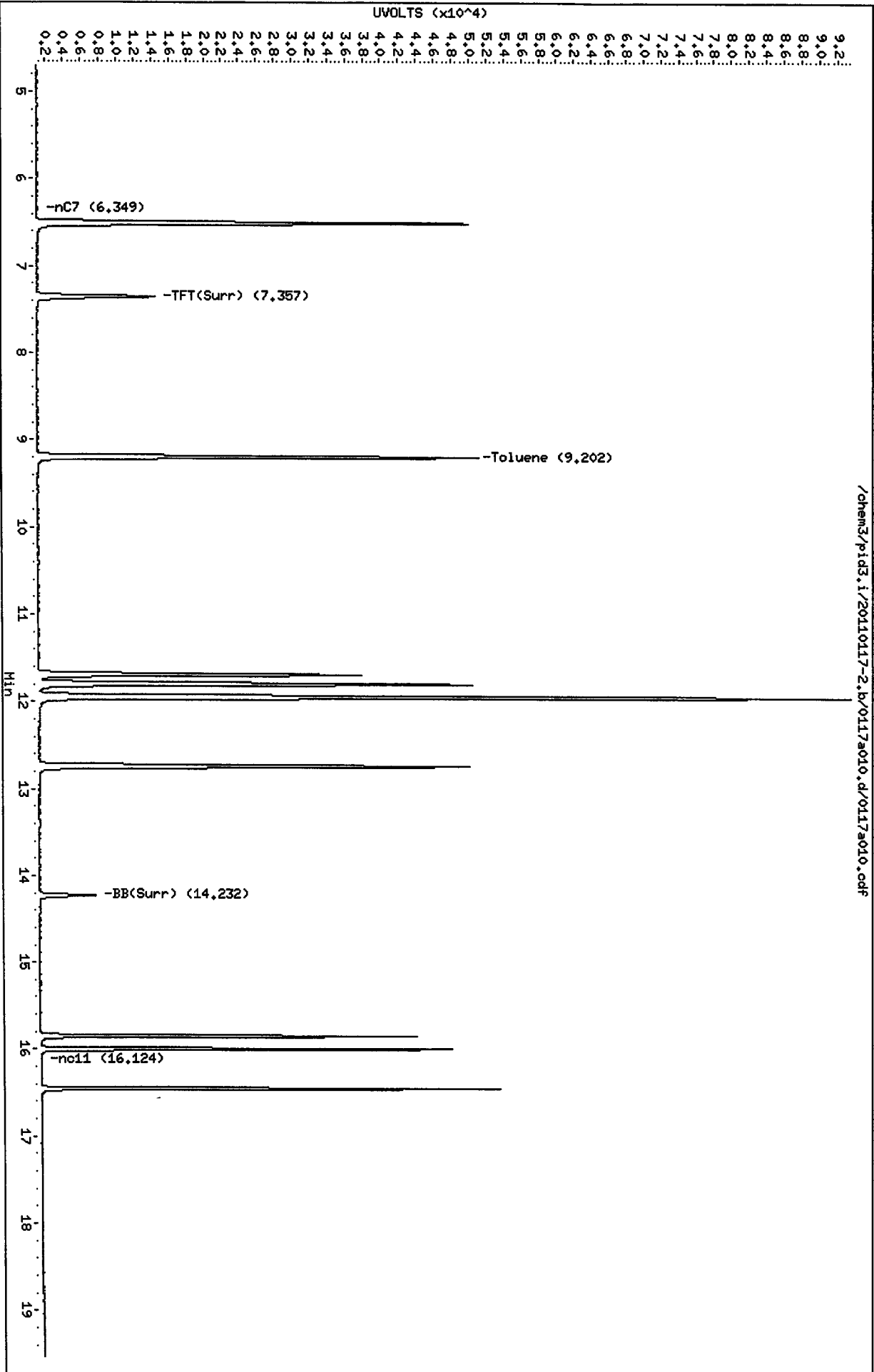
Sample Info: BETX 200

Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18



/chem3/pid3.i/20110117-2.b/0117a010.d/0117a010.cdf

00010 : 011000

Data File: /chem3/pid3.i/20110117-1.b/0117a010.d

Date: 17-JAN-2011 14:32

Client ID:

Sample Info: BETX 200

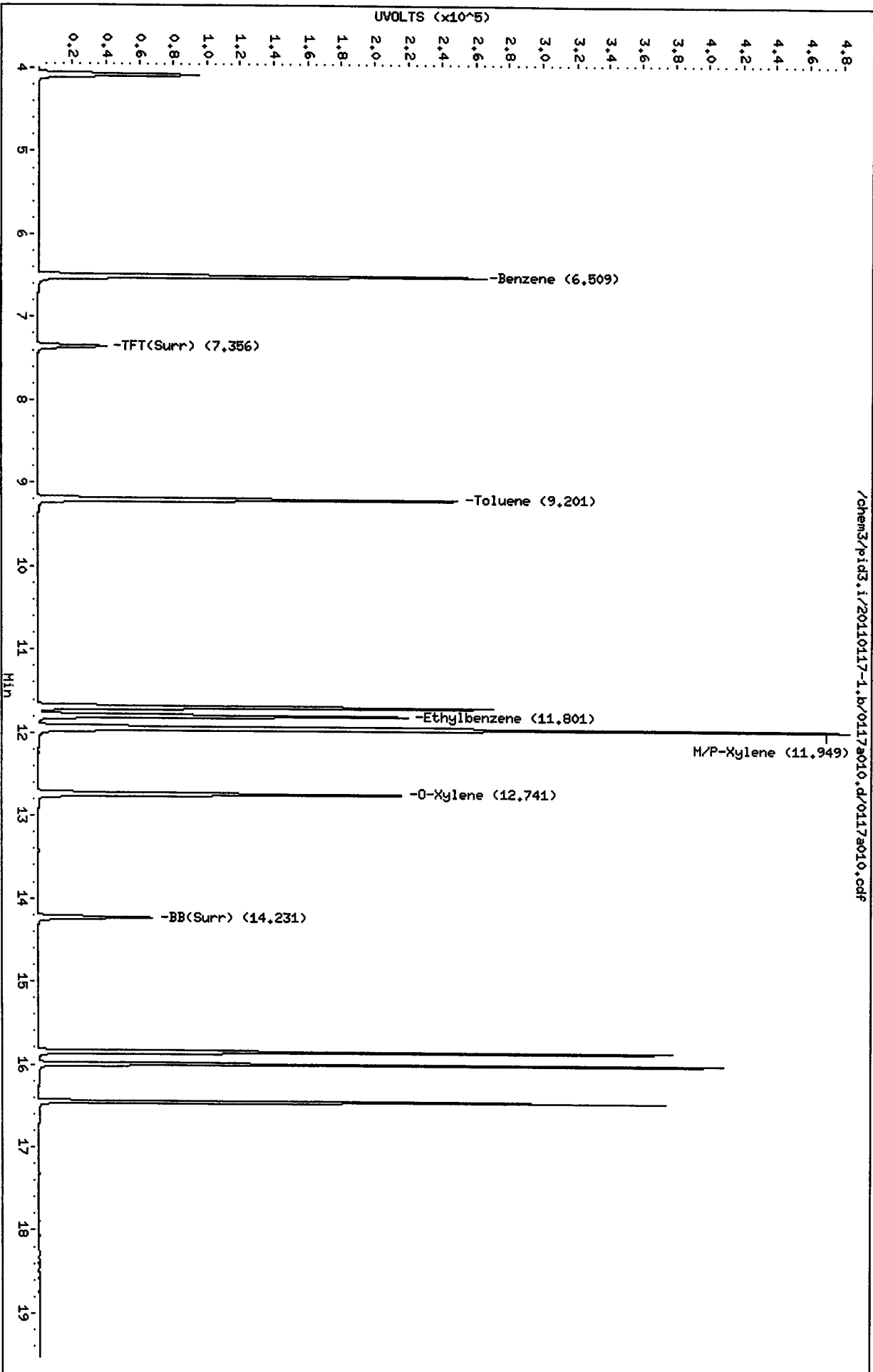
Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

Page 1



10019:0210

MH
1/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110117-2.b/0117a011.d ARI ID: BETX ICV
Data file 2: /chem3/pid3.i/20110117-1.b/0117a011.d Client ID:
Method: /chem3/pid3.i/20110117-1.b/PIDB.m Injection Date: 17-JAN-2011 14:59
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

=====
FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	-----	-----
7.354	-0.003	6878	84219	98.7	TFT (Surr)
14.229	-0.003	3266	35580	99.3	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	-----	-----	-----
WAGas Tol-C12 (9.10 to 17.46)	905544	586098	0.647
8015B 2MP-TMB (3.72 to 15.35)	1702573	603143	0.354
AK101 nC6-nC10 (4.22 to 13.99)	1177929	567754	0.482
NWTPHG Tol-Nap (9.10 to 18.36)	942411	586098	0.622

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
--	-----	-----	-----	-----
7.353	-0.003	20082	98.9	TFT (Surr)
14.228	-0.003	34303	102.4	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
6.504	-0.005	36563	26.35	Benzene
9.196	-0.005	34030	26.18	Toluene
11.795	-0.007	30774	27.28	Ethylbenzene
11.938	-0.011	66566	53.92	M/P-Xylene
12.735	-0.007	29385	26.35	O-Xylene
4.080	-0.003	12635	27.53	MTBE

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

Data File: /chem3/pid3.i/20110117-1.b/0117a011.d
Date: 17-JAN-2011 14:59

Client ID:

Sample Info: BETX ICV

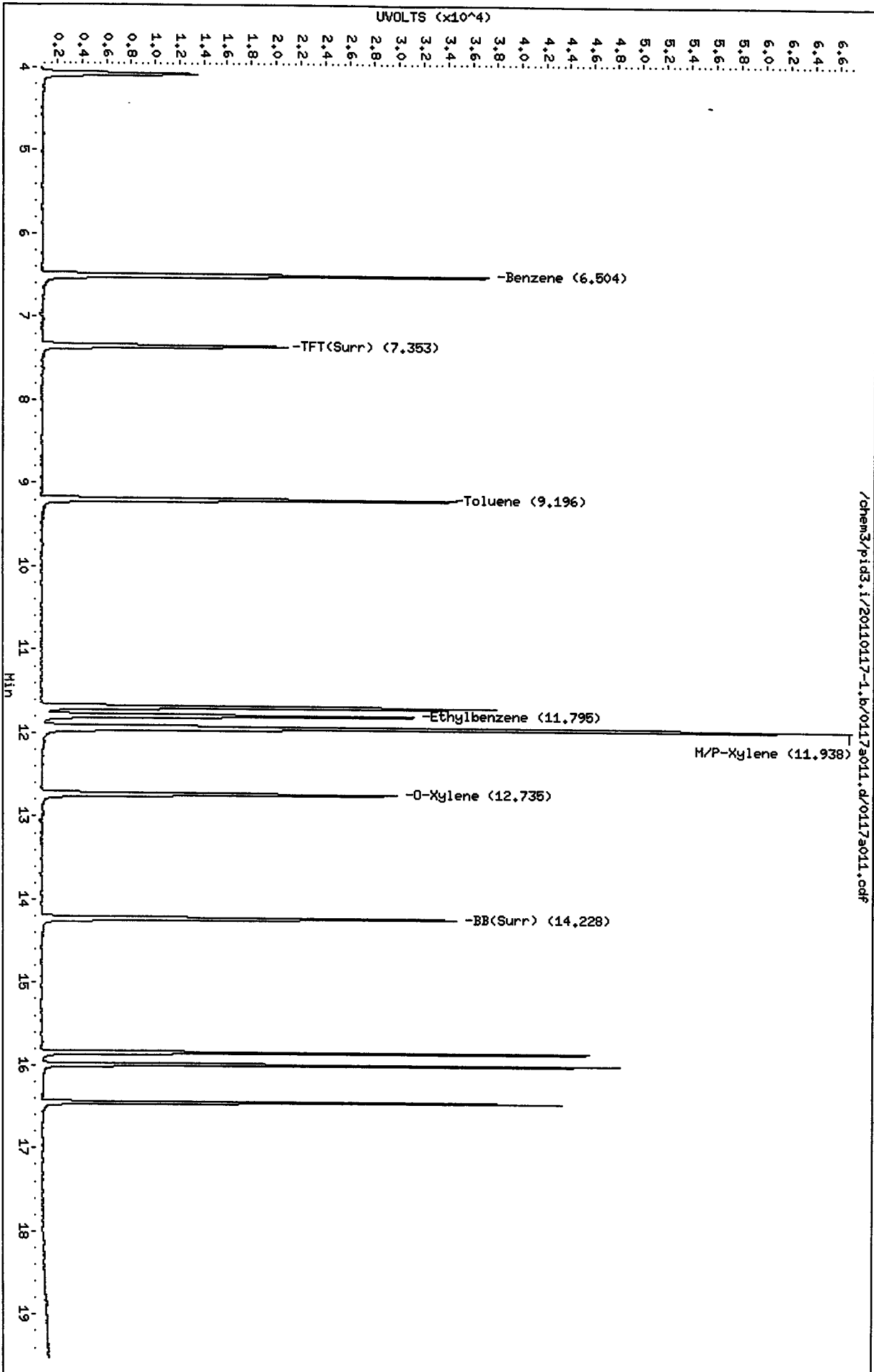
Column phase: RTX B02-2 PID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

Page 1



10010 : 0117

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid3.i/20110117-1.b/PIDB.m
Batch File: /chem3/pid3.i/20110117-1.b
Inst ID: pid3.i

ID	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
FILENAME: 0117a004	0117a005	0117a006	0117a007	0117a008	0117a009	0117a010					
INJ DATE: 17-JAN-2011	17-JAN-2011	17-JAN-2011	17-JAN-2011	17-JAN-2011	17-JAN-2011	17-JAN-2011	17-JAN-2011				
INJ TIME: 11:55	12:21	12:48	13:14	13:40	14:06	14:32					
Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 MTBE	4.093	4.087	4.084	4.080	4.080	4.082	4.083	4.093	4.023-4.163	4.084	0.005
2 Benzene	6.510	6.507	6.507	6.507	6.505	6.507	6.509	6.510	6.440-6.580	6.507	0.002
3 TPT(Surr)	7.357	7.353	7.354	7.353	7.353	7.355	7.356	7.357	7.287-7.427	7.355	0.001
4 Toluene	9.197	9.197	9.197	9.197	9.197	9.199	9.201	9.197	9.127-9.267	9.198	0.002
15 Chlorobenzene	11.800	11.796	11.796	11.796	11.796	11.798	11.801	11.800	11.730-11.870	11.798	0.002
5 Ethylbenzene	11.940	11.939	11.939	11.940	11.941	11.944	11.949	11.940	11.870-12.010	11.942	0.004
6 M/P-Xylene	12.737	12.737	12.736	12.737	12.736	12.738	12.741	12.737	12.687-12.787	12.737	0.002
7 O-Xylene	14.230	14.229	14.230	14.230	14.230	14.230	14.231	14.230	14.160-14.300	14.230	0.000
8 BB(Surr)	13 1,3,5 Trimethylbenzene	12.421	12.421	12.421	12.421	12.421	12.421	12.421	12.351-12.491	12.421	0.000
13 1,3,5 Trimethylbenzene	13 1,2,4 Trimethyl benzen	13.059	13.059	13.059	13.059	13.059	13.059	13.059	12.989-13.129	13.059	0.000
14 1,2,4 Trimethyl benzen	16 1,3 Dichlorobenzene	16.034	16.034	16.034	16.034	16.034	16.034	16.034	15.964-16.104	16.034	0.000
16 1,3 Dichlorobenzene	17 1,4 Dichlorobenzene	16.140	16.140	16.140	16.140	16.140	16.140	16.140	16.070-16.210	16.140	0.000
17 1,4 Dichlorobenzene	18 1,2 Dichlorobenzene	16.513	16.513	16.513	16.513	16.513	16.513	16.513	16.443-16.583	16.513	0.000
18 1,2 Dichlorobenzene											

Reviewer 1 MH Date: 1/18/11
 Reviewer 2 [Signature] Date: 1/18/11

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TPHG/BETX Raw Data
Run Logs, Continuing Calibrations, and Raw Data

ARI Job ID: SF26, SF50, SF76



VOA Analyst Notes / Corrective Action Log

ARI Project ID: SF26-SF50-SF76 Client ID: Floyd - Snider

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

Parameter(s): NWTPHG / BTEX

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: 1/17/11 Analysis Start Date: 1/24/11

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 SF50D double sury

Additional Details on Reverse: Yes / No

Analyst: [Signature] Date: 1/25/11

Reviewer: [Signature] Date: 1/27/11

Analytical Resources Inc.: Organics Instrument Log

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

Date: 1/24/11

Analysis: NWTP46/BETX

Analyst: MH

GC Program: BETX

Column No: 832213

Column Type: RTX502-Z

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

EM Voltage: _____

Calibration File: _____

Curve Date: 1/17/11

IS/SS	Ical/Ccal	LCS/ICV
<u>VW669-1</u>	<u>VW635-1</u>	<u>VW668-1</u>
	<u>VW672-3</u>	
	<u>VW668-1</u>	

Time	Filename	LabID	ClientID	Vial#	pH	DF
1	0603 0124a001.d	RINSE				1
2	0629 0124a002.d	RT-BCAL 1				1
3	0635 0124a003.d	GCAL 1	LORA LAKE			1
4	0721 0124a004.d	LCS0124				1
5	0748 0124a005.d	LCSD0124				1
6	0814 0124a006.d	MB0124				1
7	0854 0124a007.d	SF52Q				1
8	0920 0124a008.d	SF26A	MW11-011911			1
9	0947 0124a009.d	SF26B	MW10-011911			1
10	1013 0124a010.d	SF26C	MW07-011911			1
11	1039 0124a011.d	SF26D	MW14-011911			1
12	1105 0124a012.d	SF26DMS	MW14-011911 MS			1
13	1131 0124a013.d	SF26DMSD	MW14-011911 MSD			1
14	1158 0124a014.d	RINSE				1
15	1224 0124a015.d	BCAL 2				1
16	1250 0124a016.d	GCAL 2	LORA LAKE			1
17	1316 0124a017.d	SF50A	MW13-012011			1
18	1342 0124a018.d	SF50B	MW06-012011			1
19	1406 0124a019.d	SF50C	MW12-012011			1
20	1432 0124a020.d	SF50D	MW04-012011			1
21	1459 0124a021.d	SF50E	MW17-012011			1
22	1525 0124a022.d	SF50F	MW03-012011			1
23	1551 0124a023.d	RINSE				1
24	1617 0124a024.d	BCAL 3				1
25	1644 0124a025.d	GCAL 3	LORA LAKE			1
26	1710 0124a026.d	SF76A	MW-15-012111			1
27	1736 0124a027.d	SF76B	MW-05-012111			1
28	1802 0124a028.d	SF76C	MW-16-012111			1
29	1828 0124a029.d	SF76D	MW-02-012111			1
30	1855 0124a030.d	SF76E	MW-09-012111			1
31	1921 0124a031.d	SF76F	MW-08-012111			1
32	1947 0124a032.d	SF76G	MW-01-012111			1
33	2013 0124a033.d	SF76H	MW-01-012111-D			1
34	2039 0124a034.d	RINSE				1
35	2106 0124a035.d	BCAL 4				1
36	2132 0124a036.d	GCAL 4	LORA LAKE			1



MH
1/25/11

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.

MA
1/25/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a002.d ARI ID: RT+BCAL 1
Data file 2: /chem3/pid3.i/20110124-1.b/0124a002.d Client ID:
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 06:29
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.353	0.000	6372	75774	91.4	TFT(Surr)
14.226	0.000	3043	32741	92.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	975880	1.078
8015B 2MP-TMB (3.72 to 15.35)	1702573	1019223	0.599
AK101 nC6-nC10 (4.22 to 13.96)	1177929	711204	0.604
NWTPHG Tol-Nap (9.09 to 18.35)	942411	1051777	1.116

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
7.352	0.000	18473	91.0	TFT(Surr)
14.225	0.000	30548	91.2	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
6.506	0.000	31172	22.46	Benzene
9.194	0.000	29160	22.43	Toluene
11.792	0.000	25775	22.85	Ethylbenzene
11.936	0.000	56209	45.53	M/P-Xylene
12.732	0.000	24840	22.27	O-Xylene
4.087	0.000	11019	24.01	MTBE

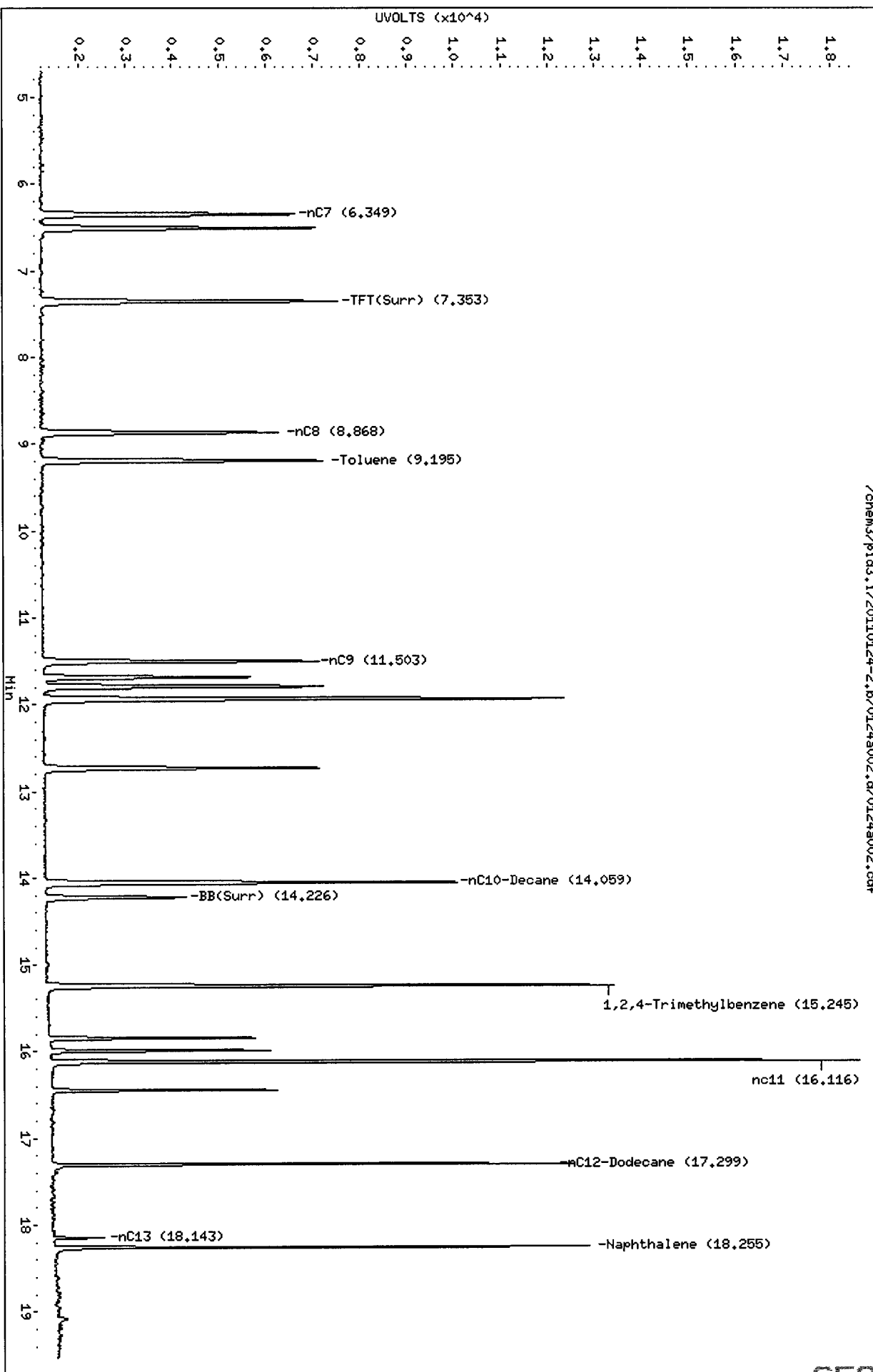
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20110124-2.b/0124a002.d
Date: 24-JAN-2011 06:29
Client ID:
Sample Info: RT+BCAL 1

Column phase: RTX 502-2 FID

/chem3/pid3.i/20110124-2.b/0124a002.d/0124a002.cdf

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

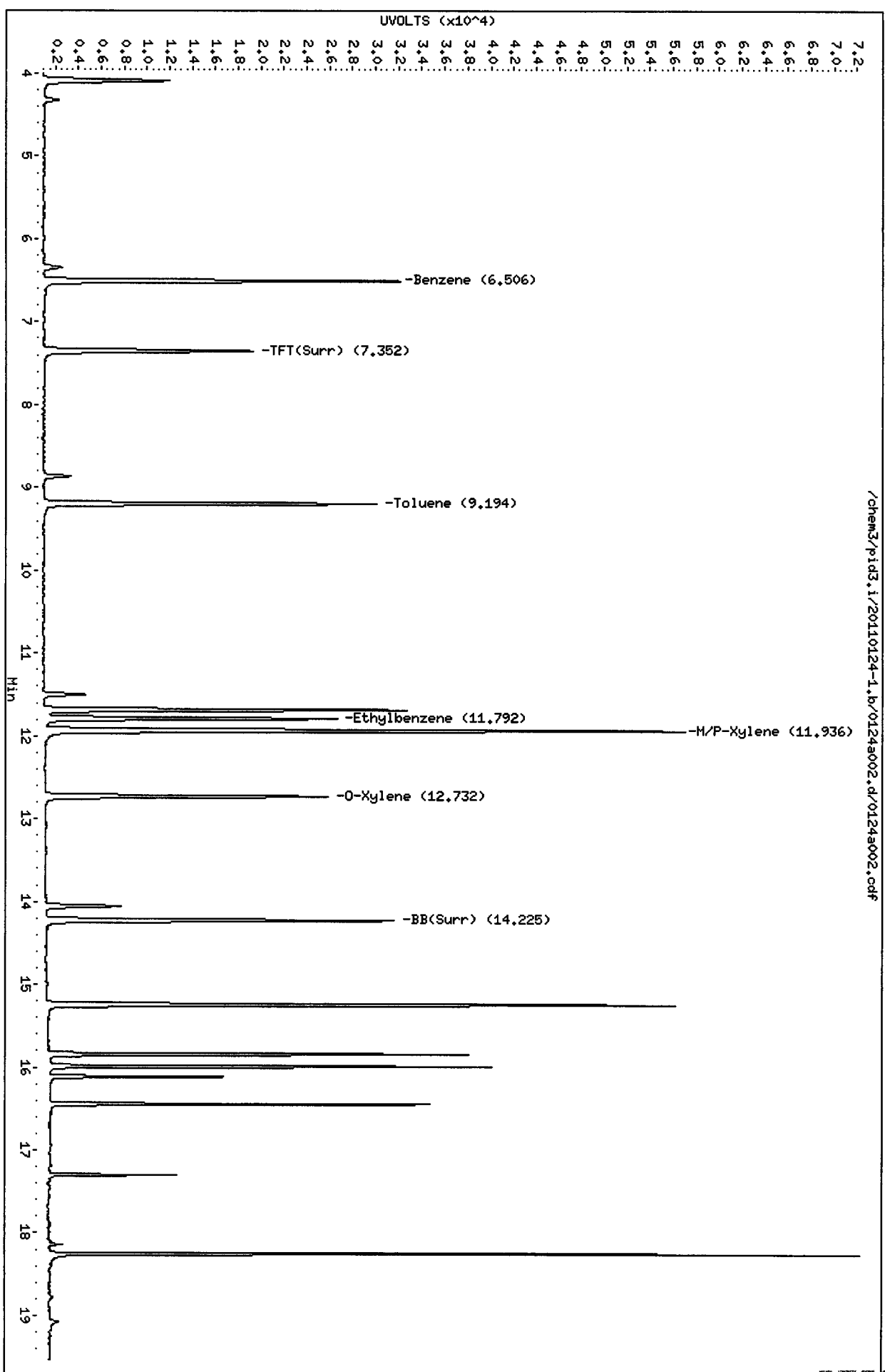


Data File: /chem3/pid3.i/20110124-1.b/0124a002.d
Date : 24-JAN-2011 06:29
Client ID:
Sample Info: RT+BCAL 1

Column phase: RTX 502-2 PID

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

/chem3/pid3.i/20110124-1.b/0124a002.d/0124a002.cdf



11:01:09

MH
1/25/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a003.d
Data file 2: /chem3/pid3.i/20110124-1.b/0124a003.d
Method: /chem3/pid3.i/20110124-1.b/PIDB.m
Instrument: pid3.i
Gas Ical Date: 17-JAN-20110
BETX Ical Date: 17-JAN-2011

ARI ID: GCAL 1
Client ID:
Injection Date: 24-JAN-2011 06:55
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.354	0.001	7739	101146	111.0	TFT(Surr)
14.226	-0.001	3382	40782	102.8	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	1973646	2.180 M
8015B 2MP-TMB (3.72 to 15.35)	1702573	3837272	2.254 M
AK101 nC6-nC10 (4.22 to 13.96)	1177929	2553375	2.168 M
NWTPHG Tol-Nap (9.09 to 18.35)	942411	2101085	2.229 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
7.353	0.001	20405	100.5	TFT(Surr)
14.225	0.000	33063	98.7	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
6.508	0.002	8708	6.27	Benzene
9.195	0.002	94096	72.39	Toluene
11.793	0.001	26318	23.33	Ethylbenzene
11.940	0.004	102257	82.83	M/P-Xylene
12.733	0.001	37596	33.71	O-Xylene
4.088	0.001	112099	244.22	MTBE

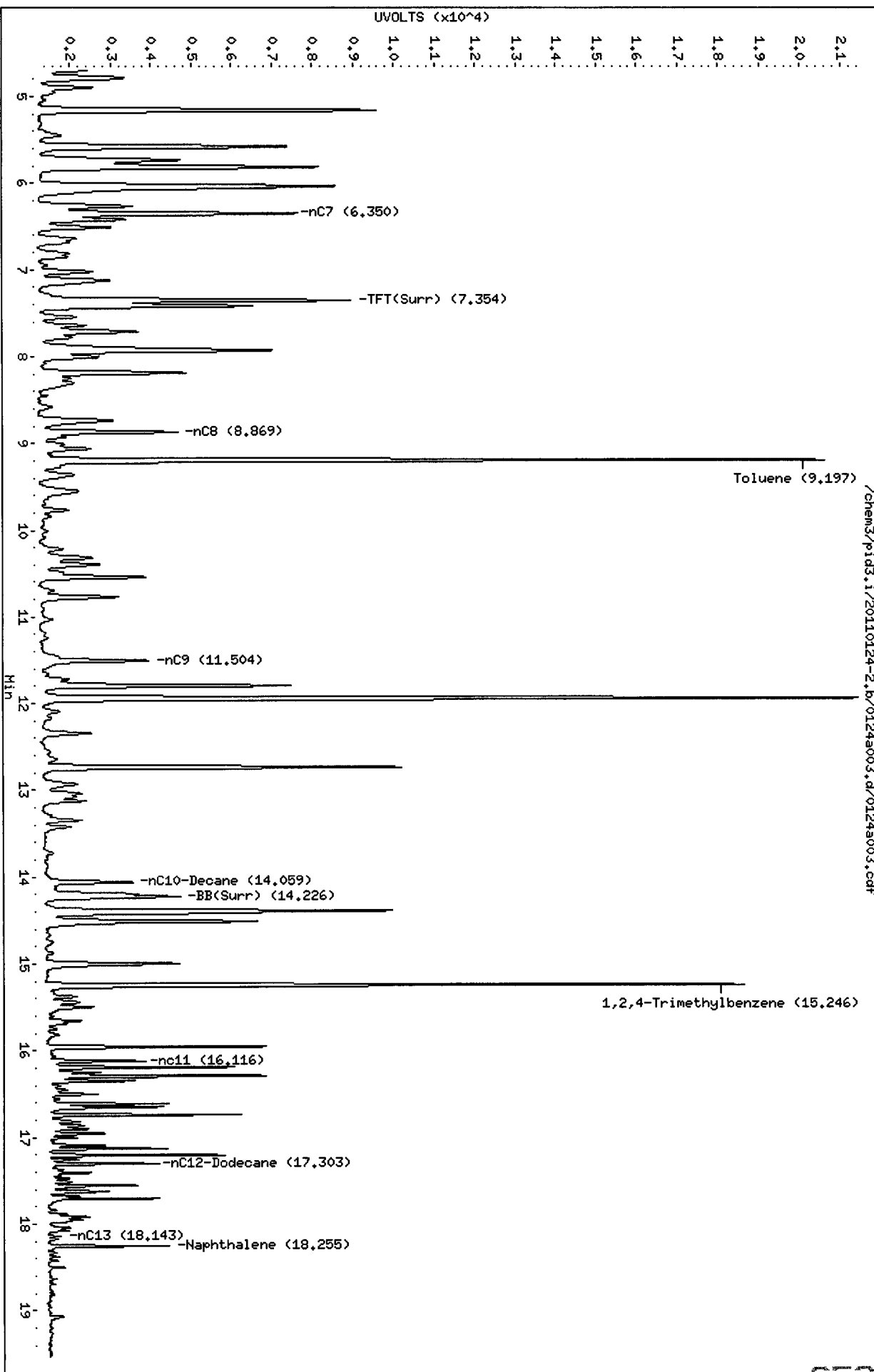
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20110124-2.b/0124a003.d
Date : 24-JAN-2011 06:55
Client ID:
Sample Info: GCAL 1

Column phase: RTX 502-2 FID

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

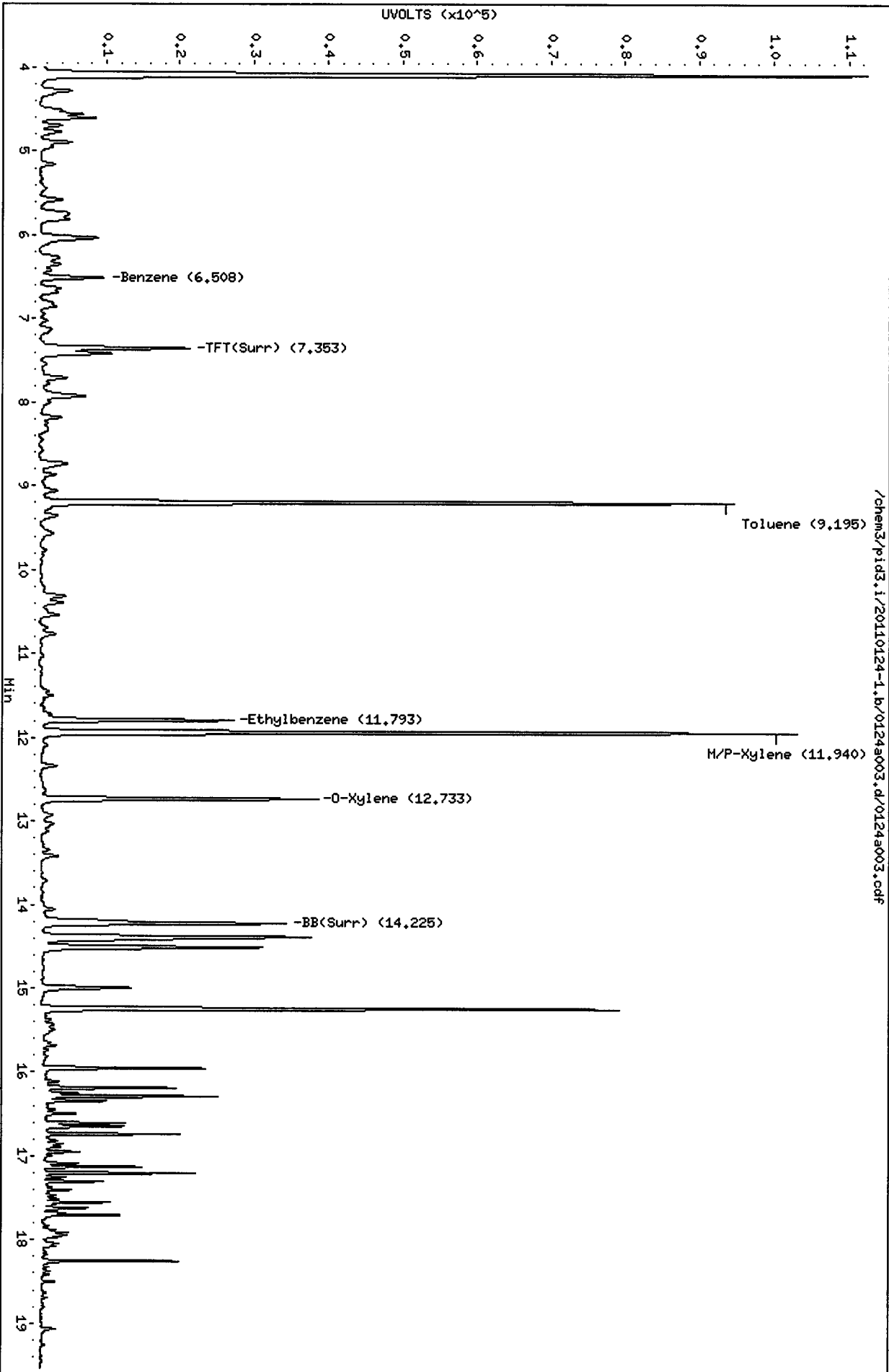
/chem3/pid3.i/20110124-2.b/0124a003.d/0124a003.cdf



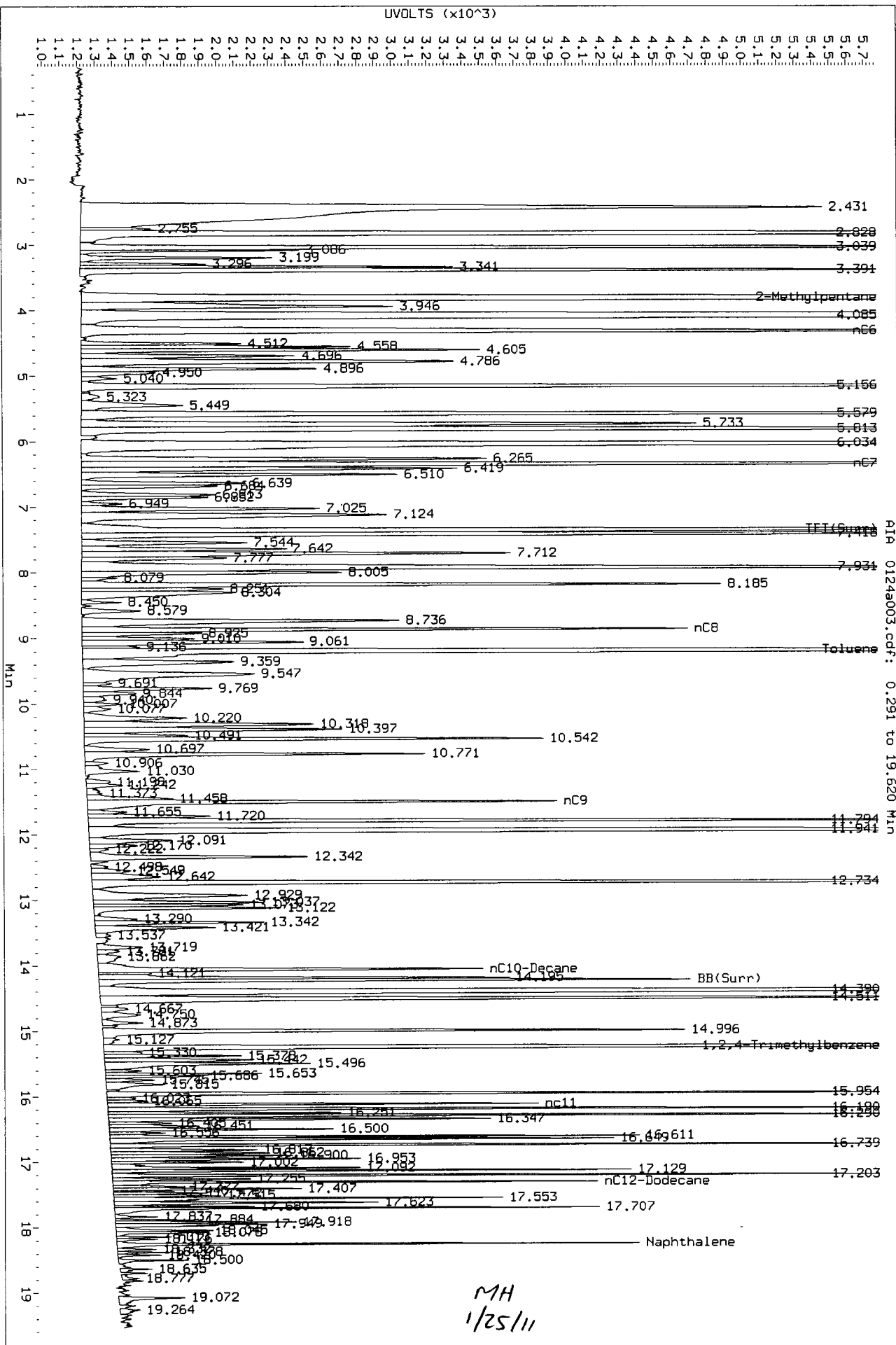
Data File: /chem3/pid3.i/20110124-1.b/0124a003.d
Date : 24-JAN-2011 06:55
Client ID:
Sample Info: GCAL 1

Column phase: RTX 502-2 PID

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

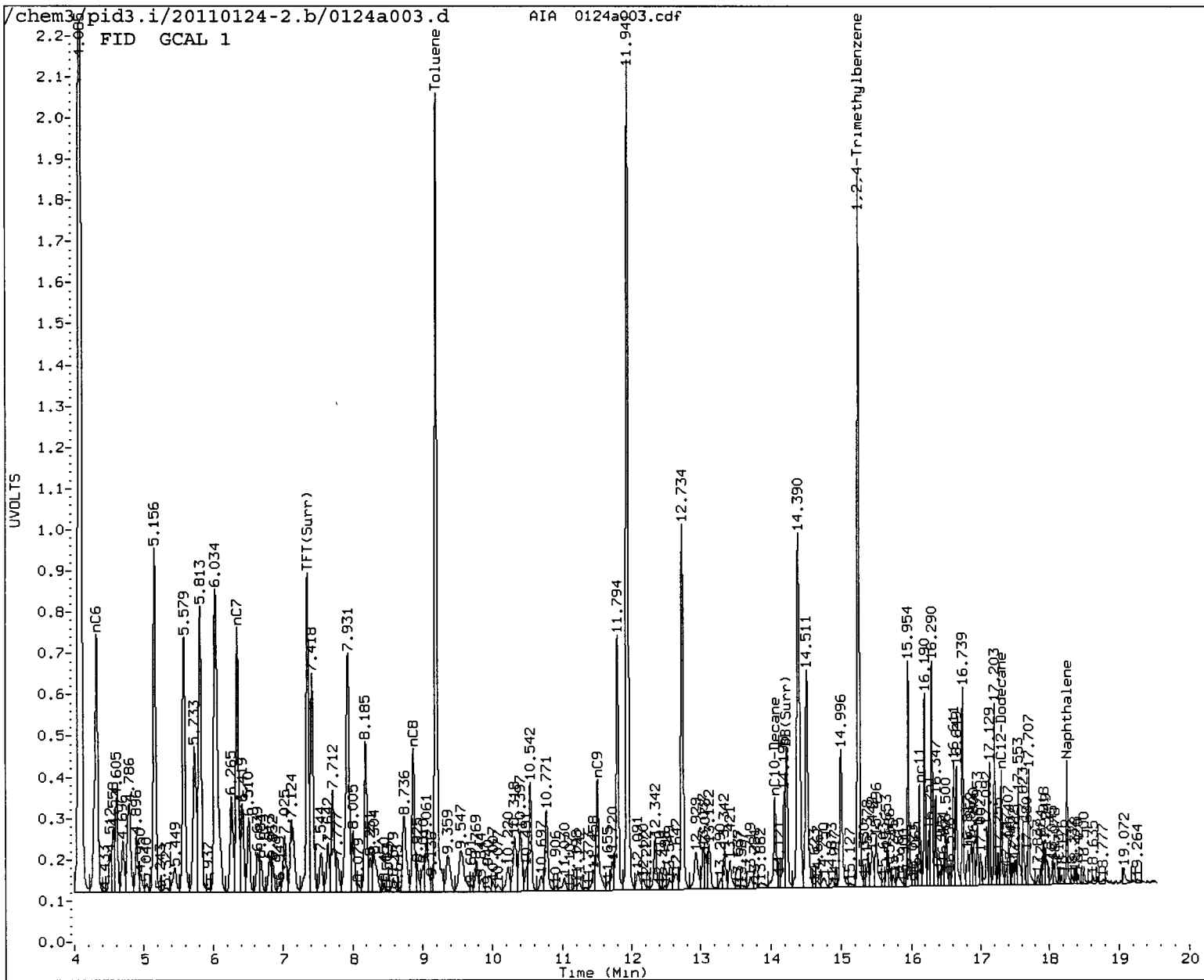


Data File: /chem3/pid3.1/20110124-2.b/0124a003.d/0124a003.cdf
 Injection Date: 24-JAN-2011 06:55
 Instrument: pid3.1
 Client Sample ID:



0124a003.cdf: 0.291 to 19.620 Min

MH
1/25/11



MANUAL INTEGRATION

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

Analyst: MH Date: 1/25/11

MH
1/25/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a004.d ARI ID: LCS0124
Data file 2: /chem3/pid3.i/20110124-1.b/0124a004.d Client ID:
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 07:21
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.353	0.001	6121	76498	87.8	TFT(Surr)
14.226	0.000	2835	40157	86.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	742373	0.820 M
8015B 2MP-TMB (3.72 to 15.35)	1702573	1405877	0.826 M
AK101 nC6-nC10 (4.22 to 13.96)	1177929	937244	0.796 M
NWTPHG Tol-Nap (9.09 to 18.35)	942411	793498	0.842 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
7.353	0.001	16754	82.5	TFT(Surr)
14.225	0.000	27832	83.1	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
6.508	0.002	3139	2.26	Benzene
9.195	0.001	34183	26.30	Toluene
11.792	0.000	9418	8.35	Ethylbenzene
11.938	0.002	36882	29.88	M/P-Xylene
12.732	0.000	13530	12.13	O-Xylene
4.086	-0.001	43036	93.76	MTBE

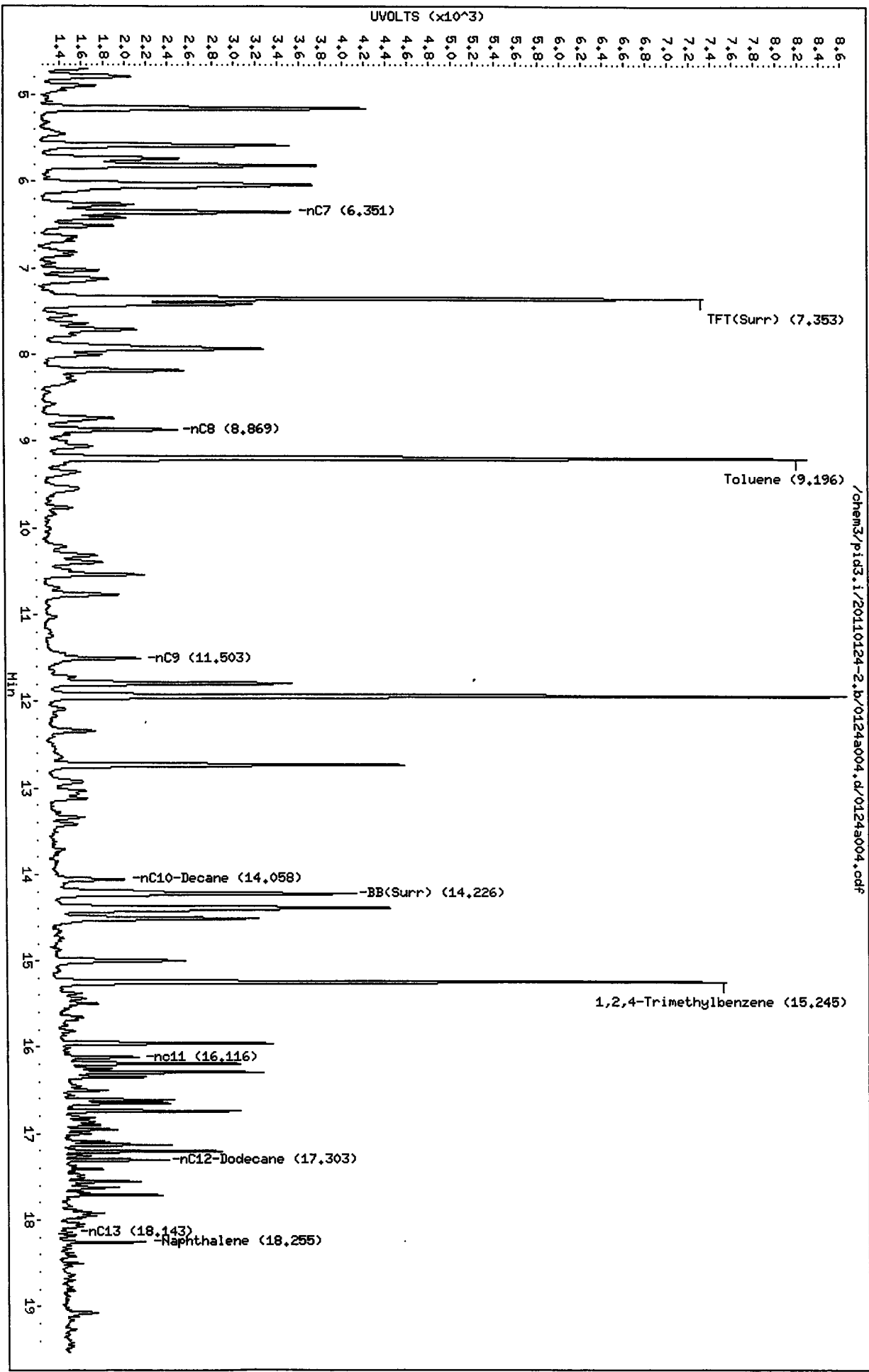
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20110124-2.b/0124s004.d
Date: 24-JAN-2011 07:21
Client ID:
Sample Info: LCS0124

Instrument: pid3.i

Column phase: RTX 502-2 F1D

Operator: HH
Column diameter: 0.18



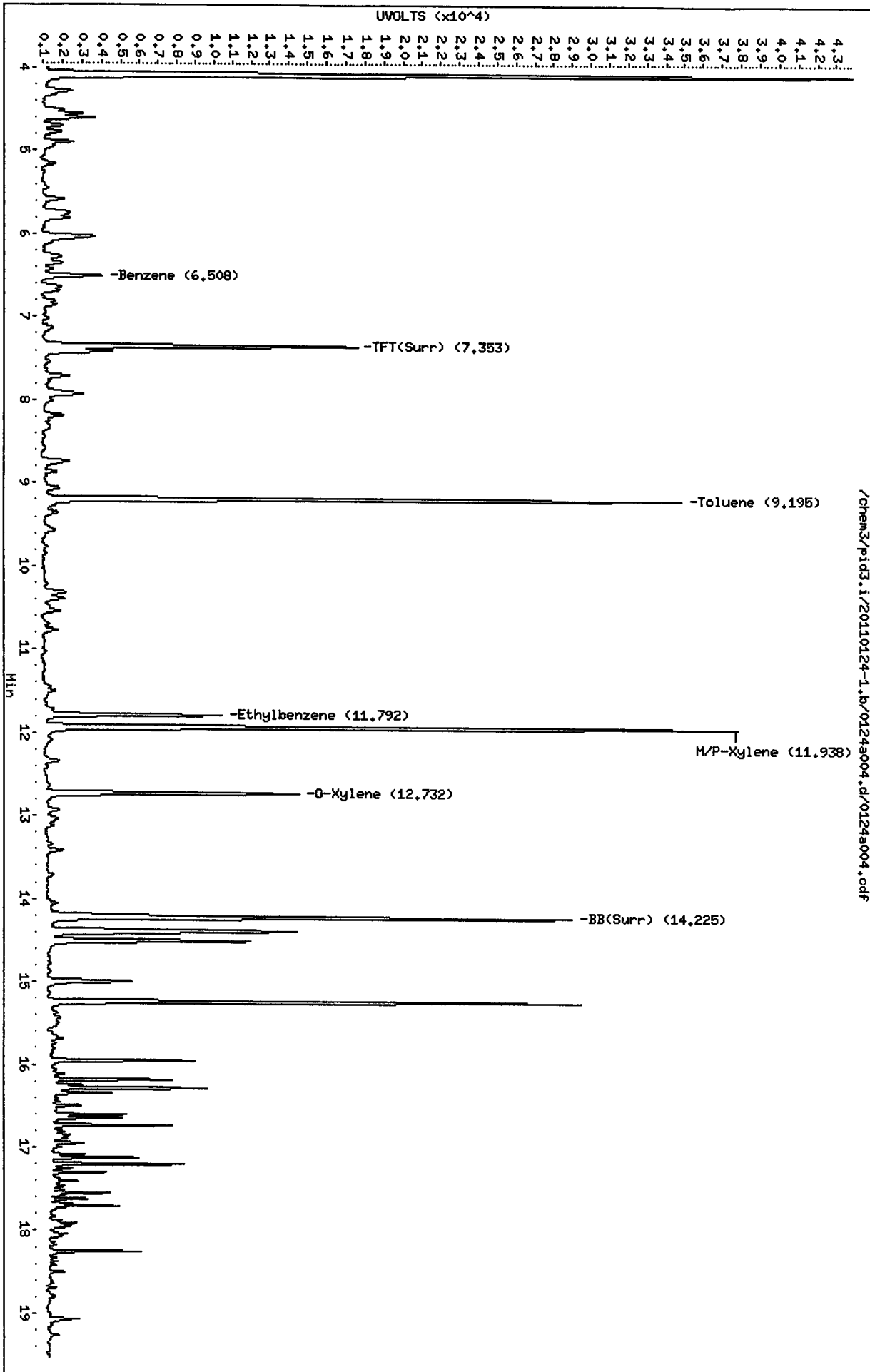
0124 : 0130 : 0120

Data File: /chem3/pid3.i/20110124-1.b/0124a004.d
Date: 24-JAN-2011 07:21
Client ID:
Sample Info: LCS0124

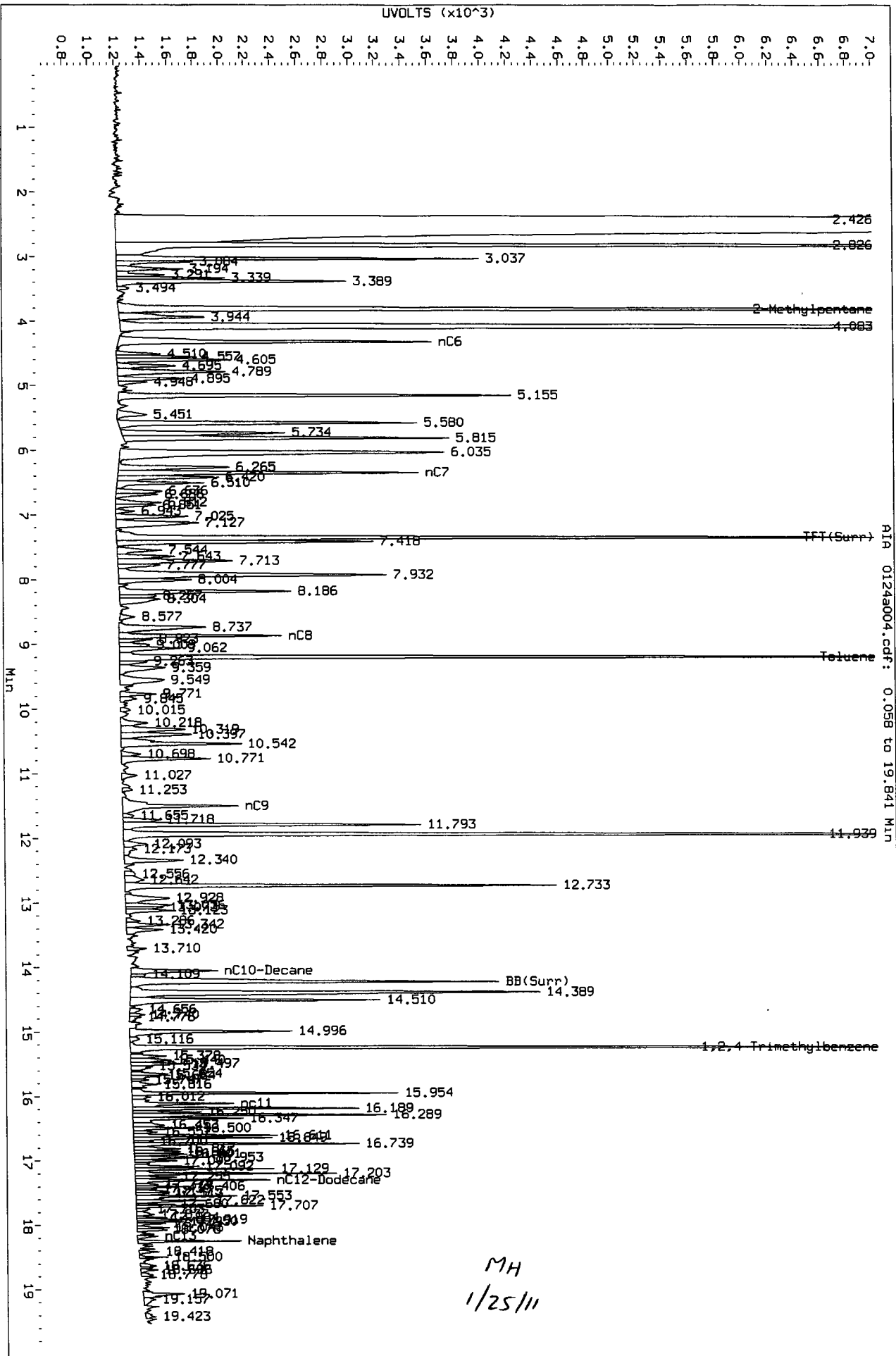
Column phase: RTX 502-2 PID

/chem3/pid3.i/20110124-1.b/0124a004.d/0124a004.cdf

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



Data File: /chem3/p1d3.1/20110124-2.b/0124a004.d/0124a004.cdf
 Injection Date: 24-JAN-2011 07:21
 Instrument: p1d3.1
 Client Sample ID:



MH
1/25/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a005.d ARI ID: LCSD0124
Data file 2: /chem3/pid3.i/20110124-1.b/0124a005.d Client ID:
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 07:48
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.354	0.002	6798	85224	97.5	TFT(Surr)
14.226	0.000	3203	43541	97.3	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	744675	0.822 M
8015B 2MP-TMB (3.72 to 15.35)	1702573	1445592	0.849 M
AK101 nC6-nC10 (4.22 to 13.96)	1177929	966034	0.820 M
NWTPHG Tol-Nap (9.09 to 18.35)	942411	801230	0.850 M

M Indicates manual integration within range

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

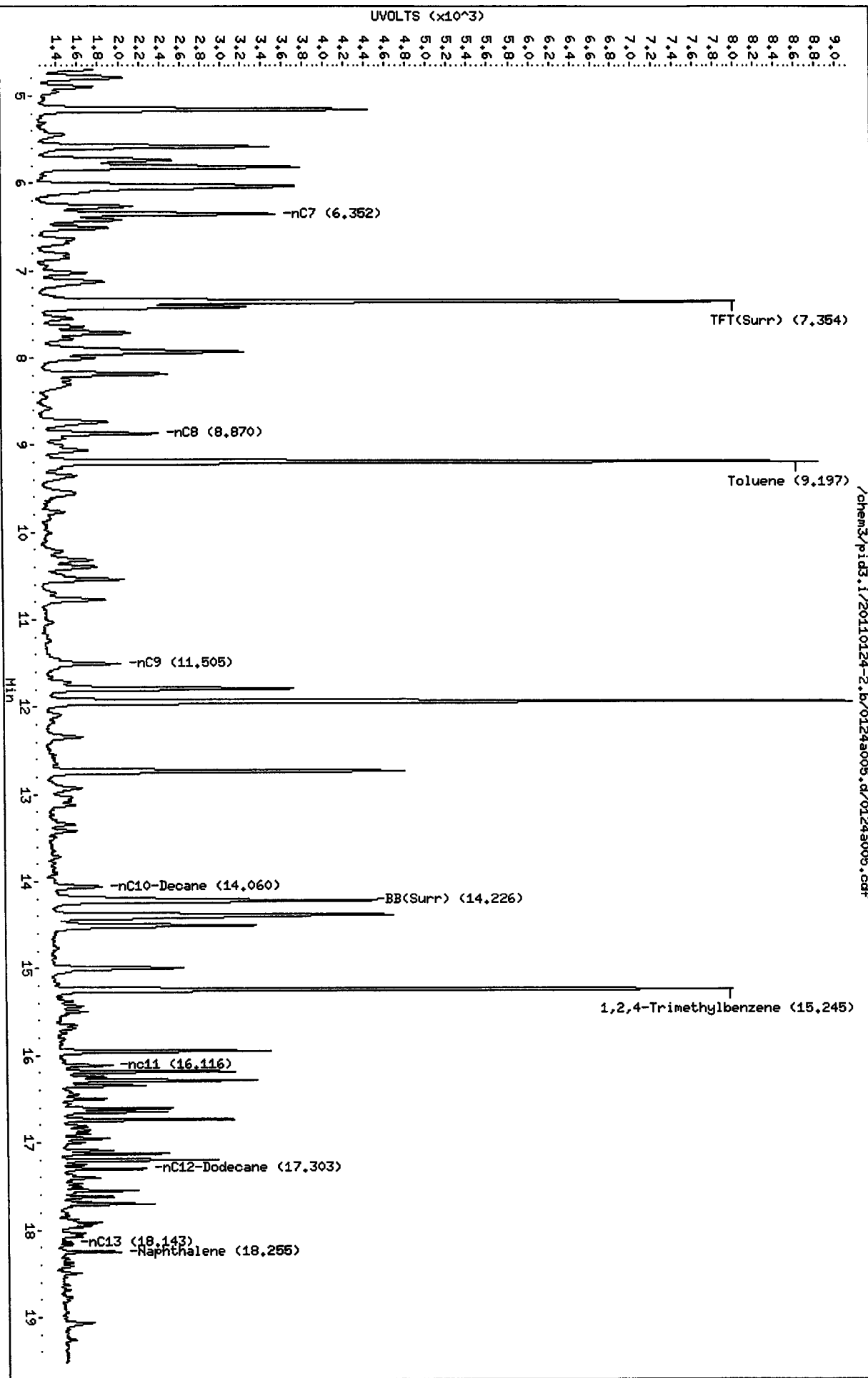
PID Surrogates

RT	Shift	Response	%Rec	Compound
7.353	0.002	19096	94.1	TFT(Surr)
14.225	0.000	31350	93.6	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
6.509	0.003	3463	2.50	Benzene
9.195	0.002	36741	28.27	Toluene
11.793	0.001	10109	8.96	Ethylbenzene
11.939	0.003	39567	32.05	M/P-Xylene
12.733	0.001	14649	13.13	O-Xylene
4.088	0.001	43611	95.01	MTBE

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



Data File: /chem3/pid3.i/20110124-1.b/0124s005.d

Date : 24-JAN-2011 07:48

Client ID:

Sample Info: LCSD0124

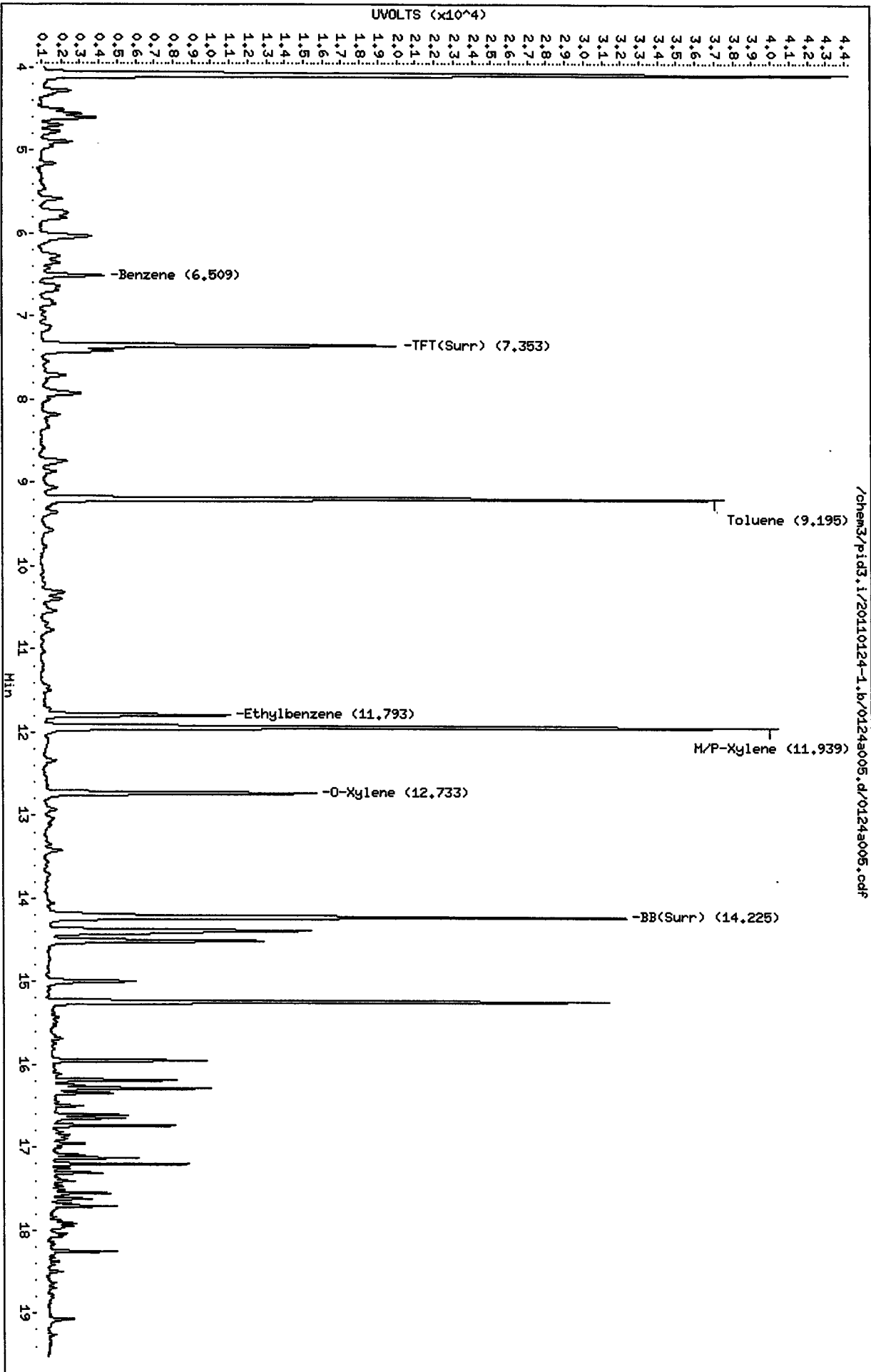
Column phase: RTX 502-2 PID

Instrument: pid3.i

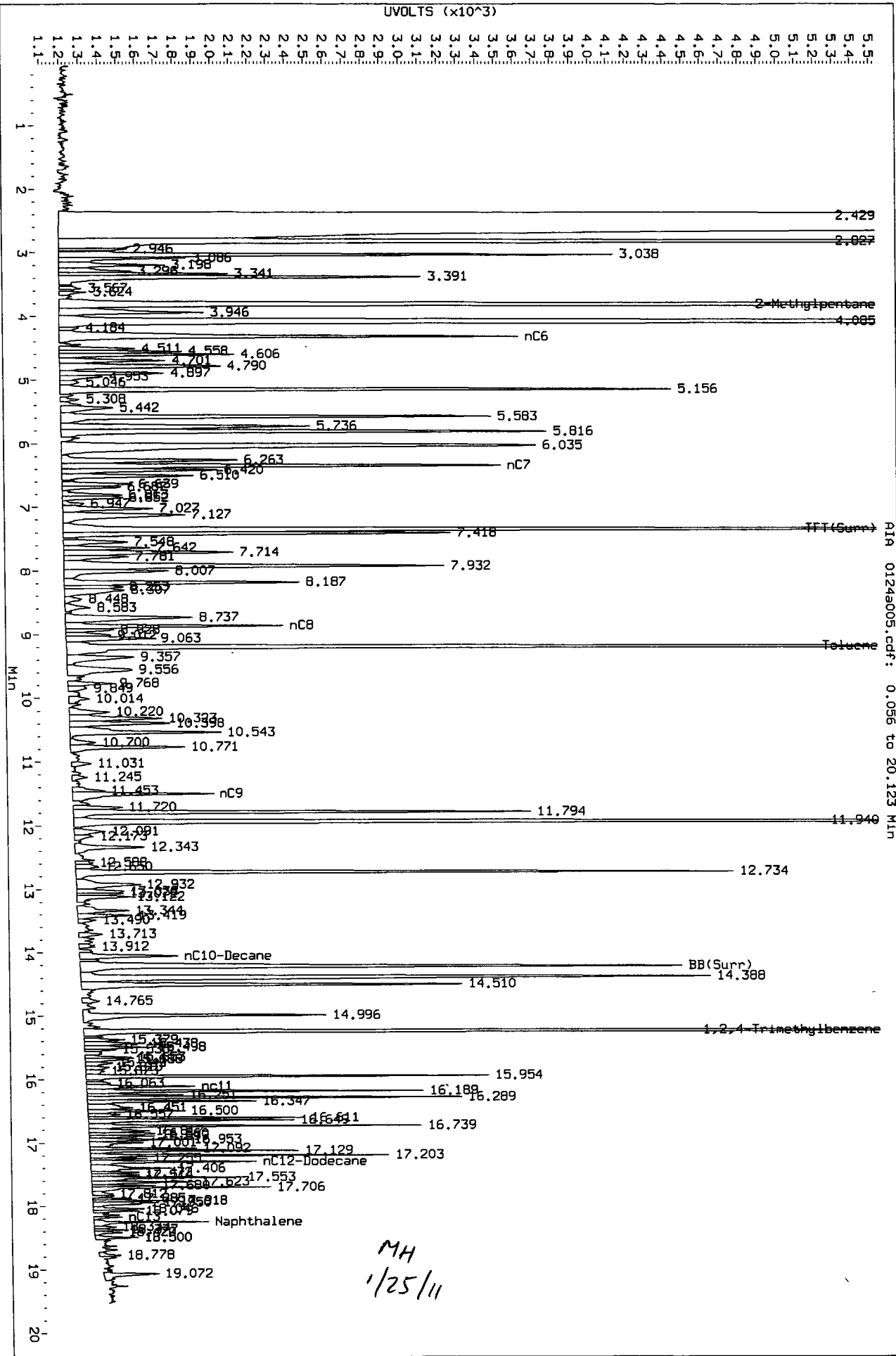
Operator: MH

Column diameter: 0.18

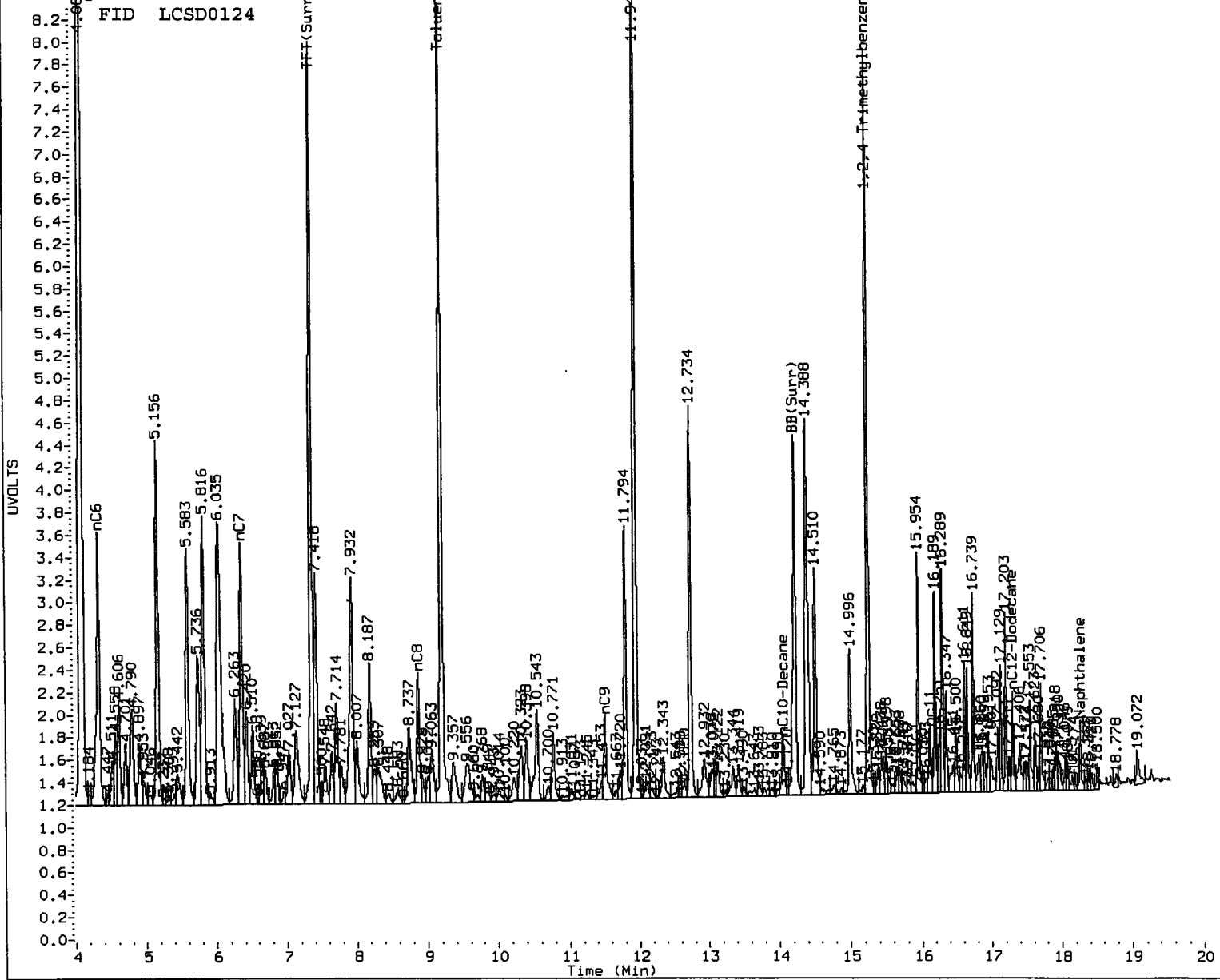
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Data File: /chem3/pid3.1/20110124-2.b/0124a005.d/0124a005.cdf
Injection Date: 24-JAN-2011 07:48
Instrument: pid3.1
Client Sample ID:



MH
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MANUAL INTEGRATION

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

Analyst: MH Date: 1/25/11

1/25/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a006.d ARI ID: MB0124
Data file 2: /chem3/pid3.i/20110124-1.b/0124a006.d Client ID:
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 08:14
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.356	0.003	5745	67588	82.4	TFT(Surr)
14.227	0.001	2867	32683	87.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	16892	0.019
8015B 2MP-TMB (3.72 to 15.35)	1702573	12275	0.007
AK101 nC6-nC10 (4.22 to 13.96)	1177929	6878	0.006
NWTPHG Tol-Nap (9.09 to 18.35)	942411	18031	0.019

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
7.355	0.003	16483	81.2	TFT(Surr)
14.226	0.001	28167	84.1	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

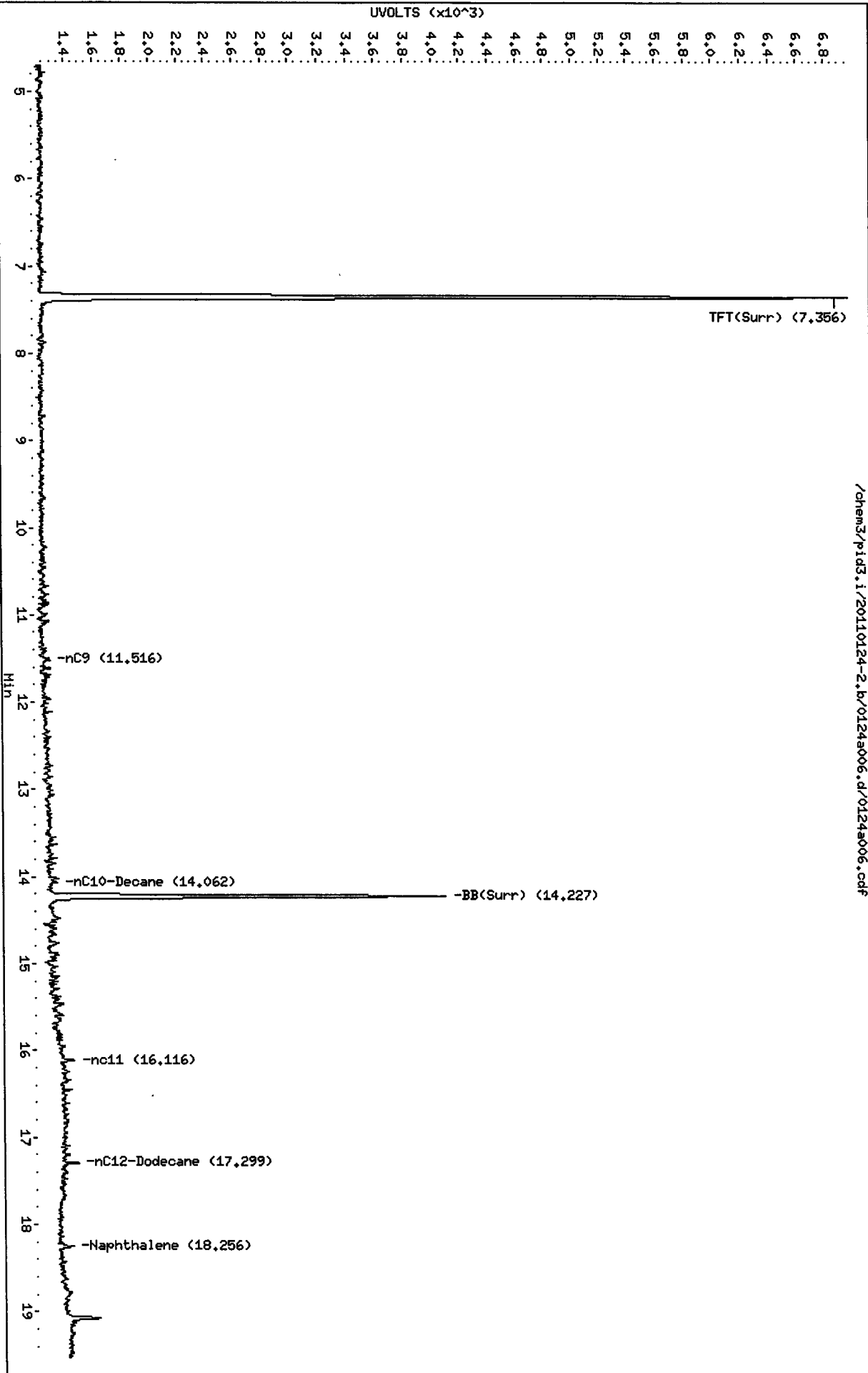
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20110124-2.b/0124a006.d
Date : 24-JAN-2011 08:14
Client ID:
Sample Info: NB0124

Column phase: RTX 502-2 FID

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

/chem3/pid3.i/20110124-2.b/0124a006.d/0124a006.cdf



Data File: /chem3/pid3.i/20110124-1.b/0124a006.d

Date: 24-JAN-2011 08:14

Client ID:

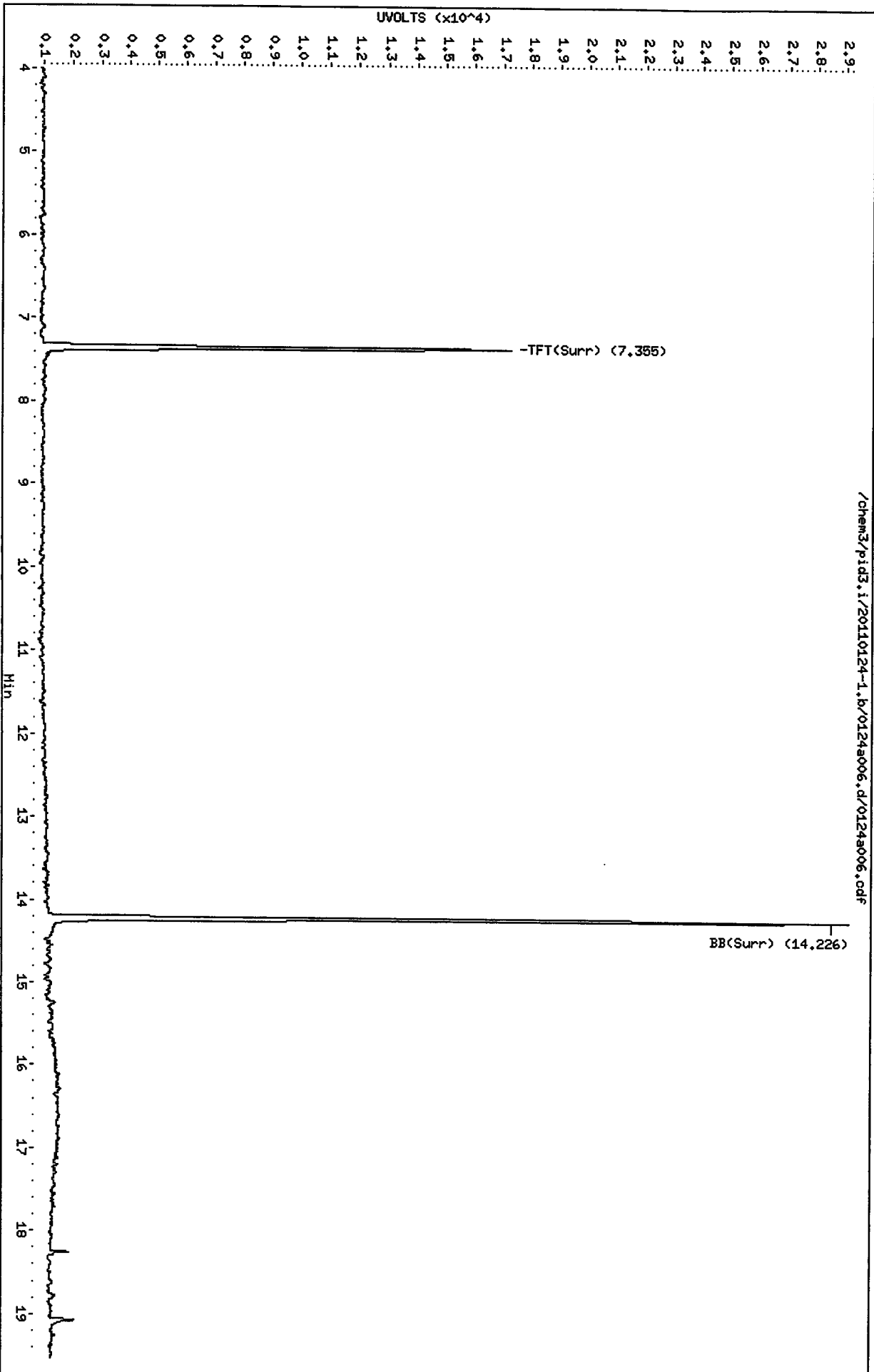
Sample Info: HB0124

Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18



200610:0215

MH
1/25/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a008.d ARI ID: SF26A
Data file 2: /chem3/pid3.i/20110124-1.b/0124a008.d Client ID: MW11-011911
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 09:20
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.355	0.002	6910	82562	99.1	TFT(Surr)
14.228	0.002	3223	35460	98.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	25728	0.028
8015B 2MP-TMB (3.72 to 15.35)	1702573	14737	0.009
AK101 nC6-nC10 (4.22 to 13.96)	1177929	12347	0.010
NWTPHG Tol-Nap (9.09 to 18.35)	942411	27325	0.029

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
7.353	0.001	19618	96.6	TFT(Surr)
14.226	0.001	32140	95.9	BB(Surr)

SW8021 (PID)

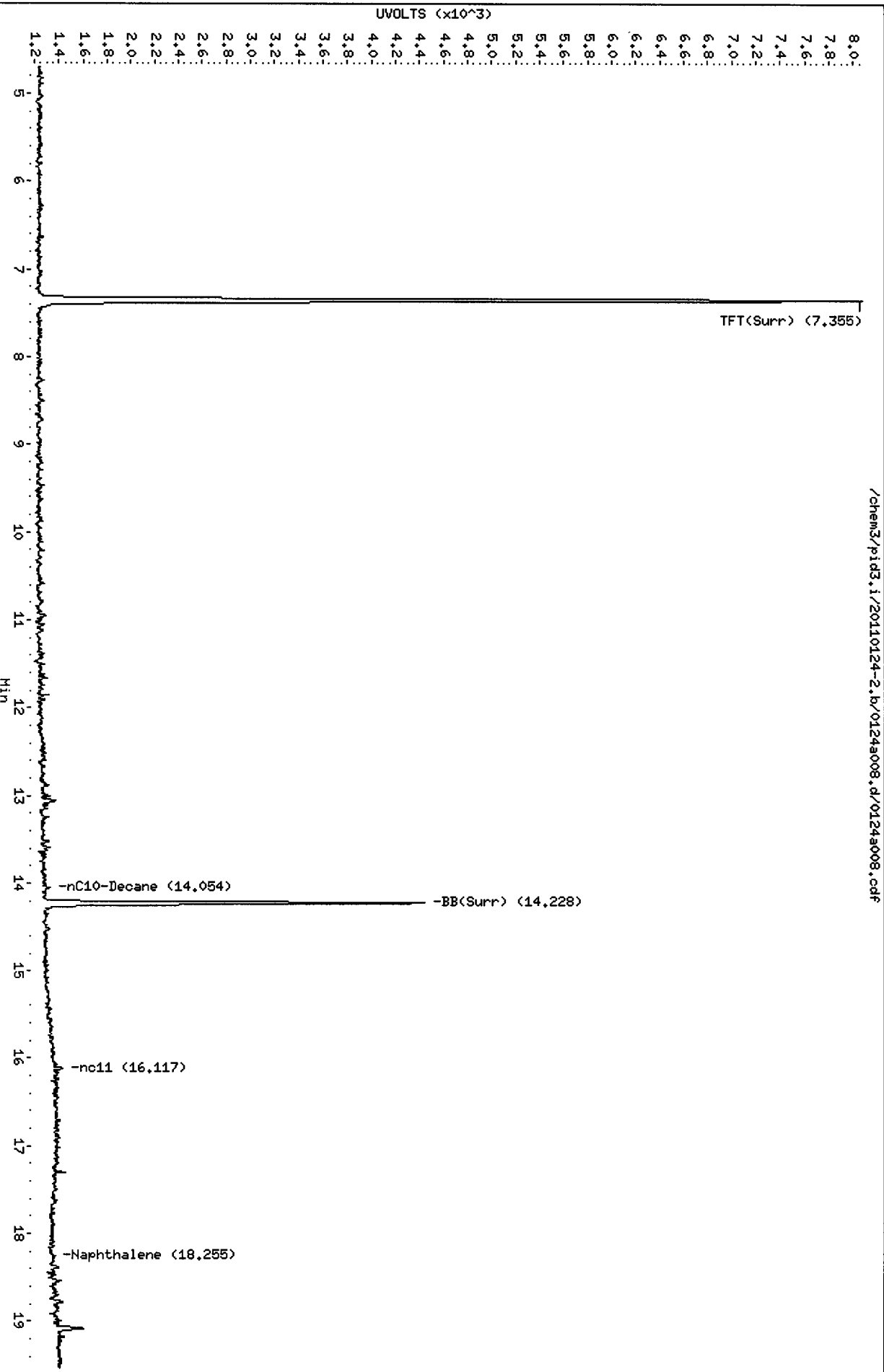
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

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

Data File: /chem3/pid3.i/20110124-2.b/0124a008.d
Date : 24-JAN-2011 09:20
Client ID: HM11-011911
Sample Info: SF26a

Column phase: RTX 502-2 FID

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



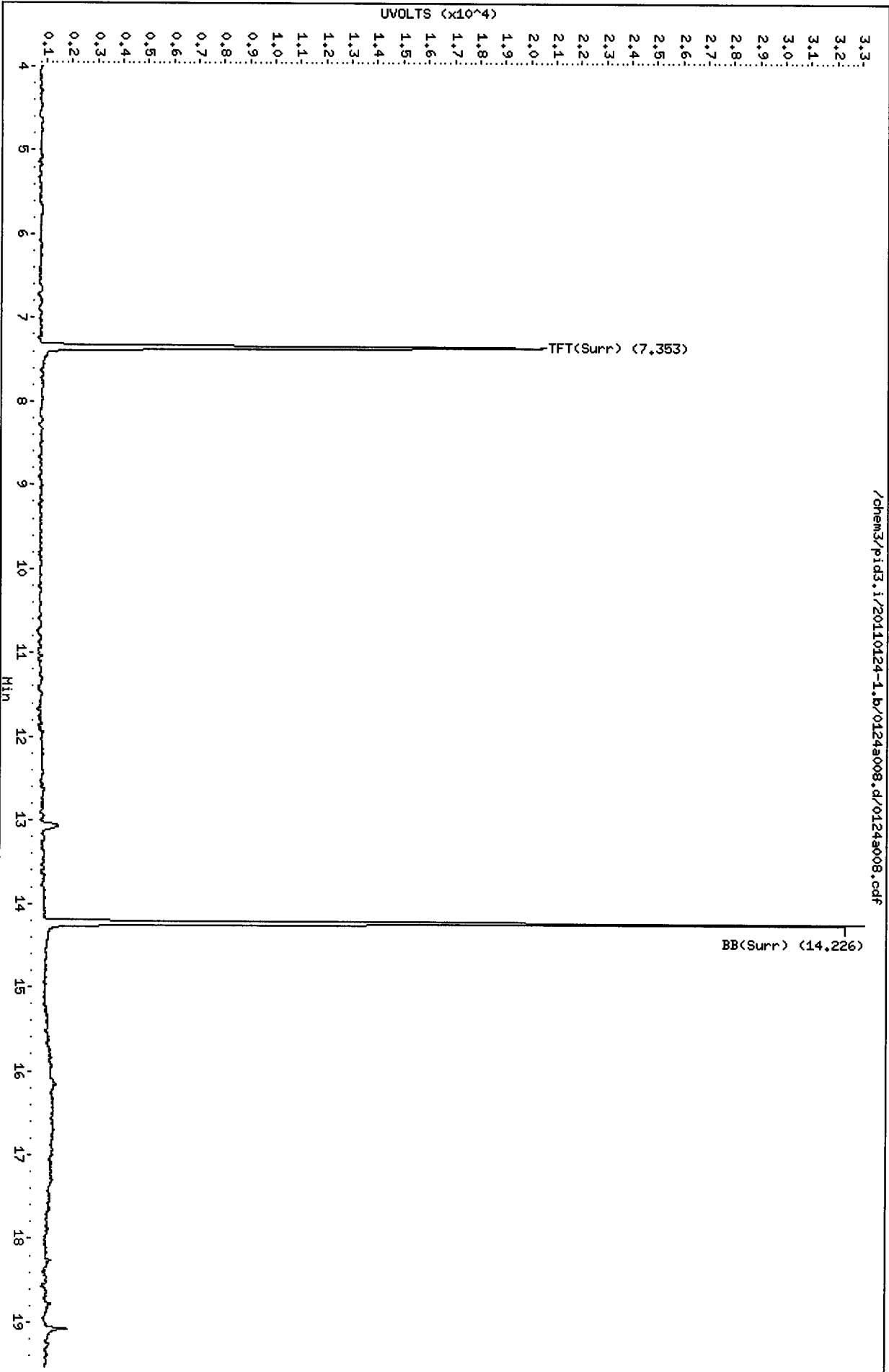
/chem3/pid3.i/20110124-2.b/0124a008.d/0124a008.cdf

Data File: /chem3/pid3.i/20110124-1.b/0124s008.d
Date: 24-JAN-2011 09:20
Client ID: HML1-011911
Sample Info: SF26A

Column phase: RTX 502-2 PID

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

/chem3/pid3.i/20110124-1.b/0124s008.d/0124s008.cdf



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MH
1/25/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a009.d ARI ID: SF26B
Data file 2: /chem3/pid3.i/20110124-1.b/0124a009.d Client ID: MW10-011911
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 09:47
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.354	0.001	7060	82470	101.3	TFT(Surr)
14.227	0.001	3320	36344	100.9	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	59075	0.065
8015B 2MP-TMB (3.72 to 15.35)	1702573	12097	0.007
AK101 nC6-nC10 (4.22 to 13.96)	1177929	10326	0.009
NWTPHG Tol-Nap (9.09 to 18.35)	942411	66403	0.070

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
7.353	0.001	20117	99.1	TFT(Surr)
14.226	0.002	32803	97.9	BB(Surr)

SW8021 (PID)

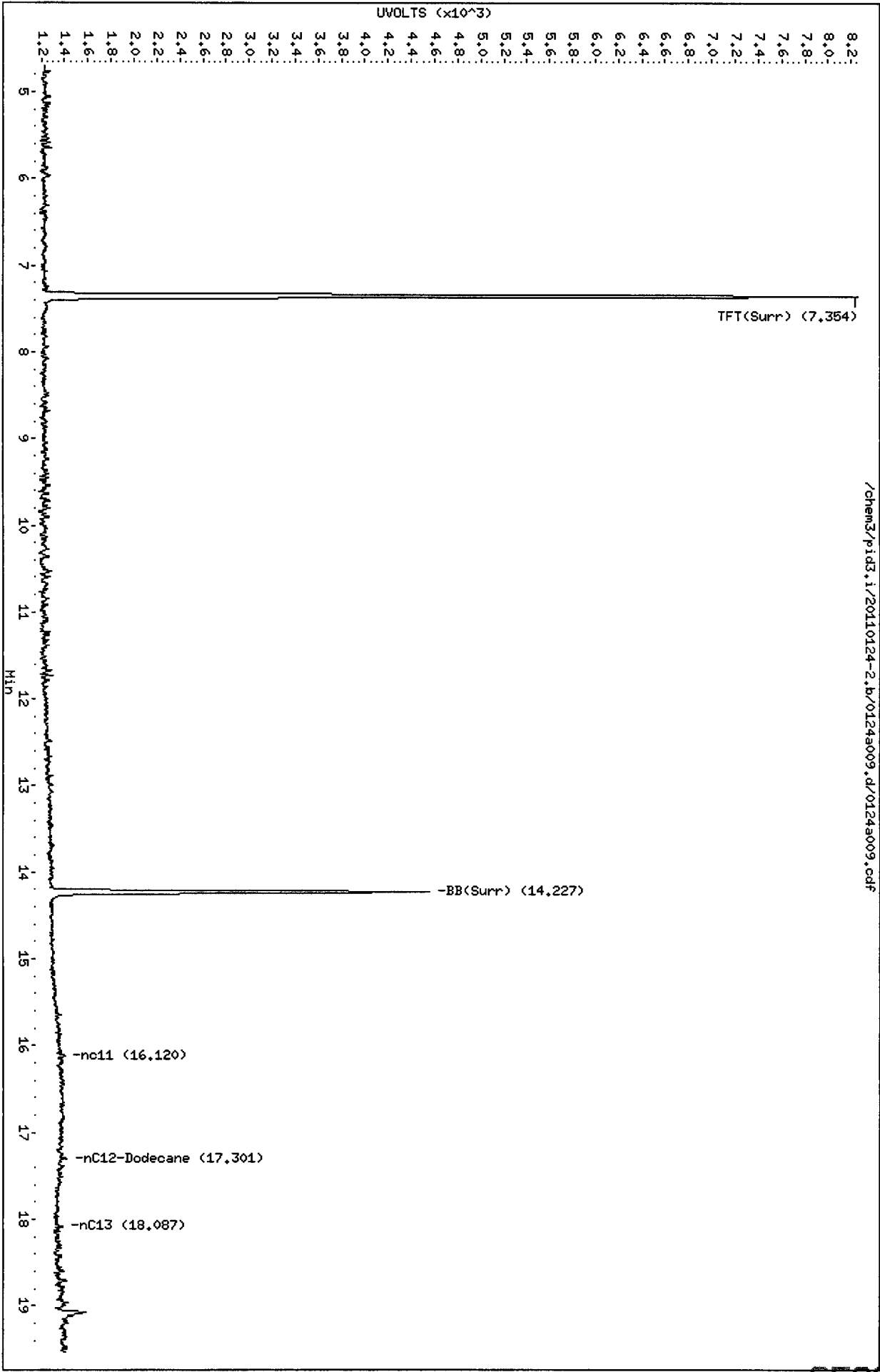
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

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

Data File: /chem3/pid3.i/20110124-2.b/0124a009.d
Date : 24-JAN-2011 09:47
Client ID: HMI0-011911
Sample Info: SF26B

Column phase: RTX 502-2 FID

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



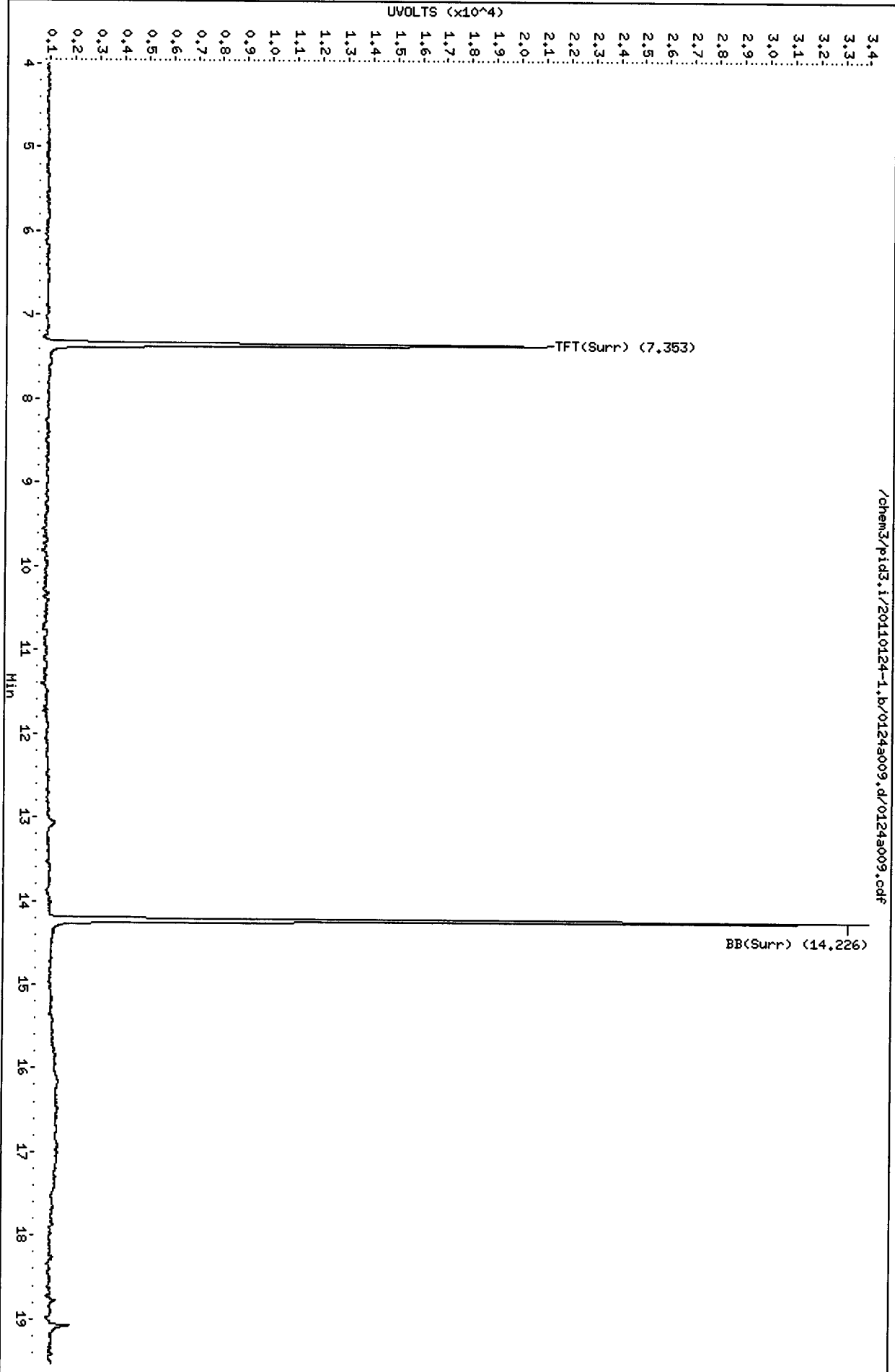
19 18 17 16 15 14 13 12 11 10 9 8 7 6 5

Data File: /chem3/pid3.i/20110124-1.b/0124a009.d
Date : 24-JAN-2011 09:47
Client ID: MM10-011911
Sample Info: SF26B

Instrument: pid3.i

Column phase: RTX 502-2 PID

Operator: MH
Column diameter: 0.18



MH
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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a010.d ARI ID: SF26C
Data file 2: /chem3/pid3.i/20110124-1.b/0124a010.d Client ID: MW07-011911
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 10:13
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.355	0.003	6846	83320	98.2	TFT(Surr)
14.228	0.002	3242	34906	98.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	12012	0.013
8015B 2MP-TMB (3.72 to 15.35)	1702573	27291	0.016
AK101 nC6-nC10 (4.22 to 13.96)	1177929	26044	0.022
NWTPHG Tol-Nap (9.09 to 18.35)	942411	12012	0.013

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
7.354	0.003	19297	95.1	TFT(Surr)
14.227	0.002	32247	96.2	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

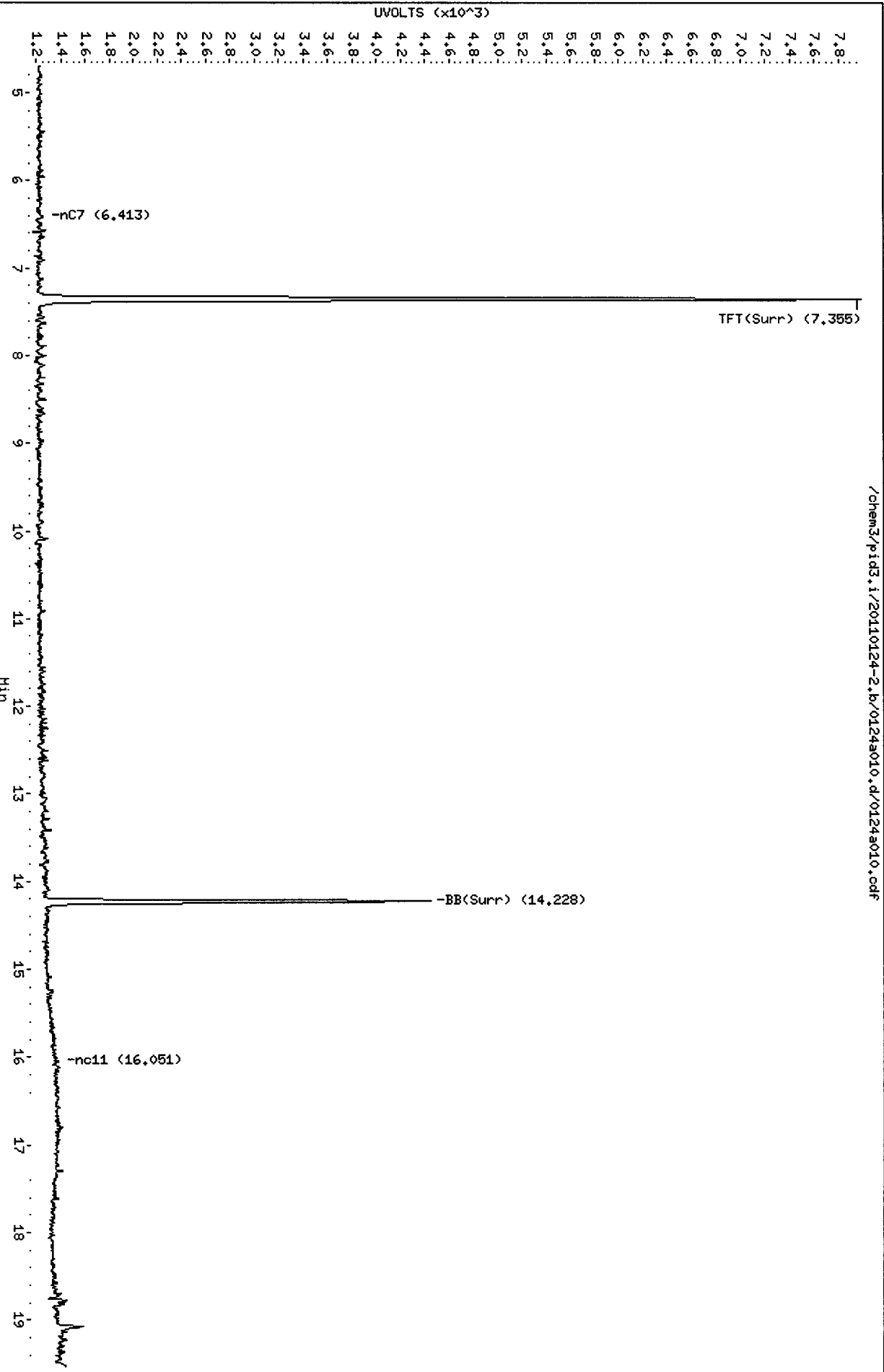
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20110124-2.b/0124a010.d
Date: 24-JAN-2011 10:13
Client ID: HM07-011911
Sample Info: SF26C

Column phase: RTX 502-2 FID

/chem3/pid3.i/20110124-2.b/0124a010.d/0124a010.cdf

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



09 07 11 09 15 20

Data File: /chem3/pid3.i/20110124-1.b/0124a010.d

Date : 24-JAN-2011 10:13

Client ID: HM07-011911

Sample Info: SF26C

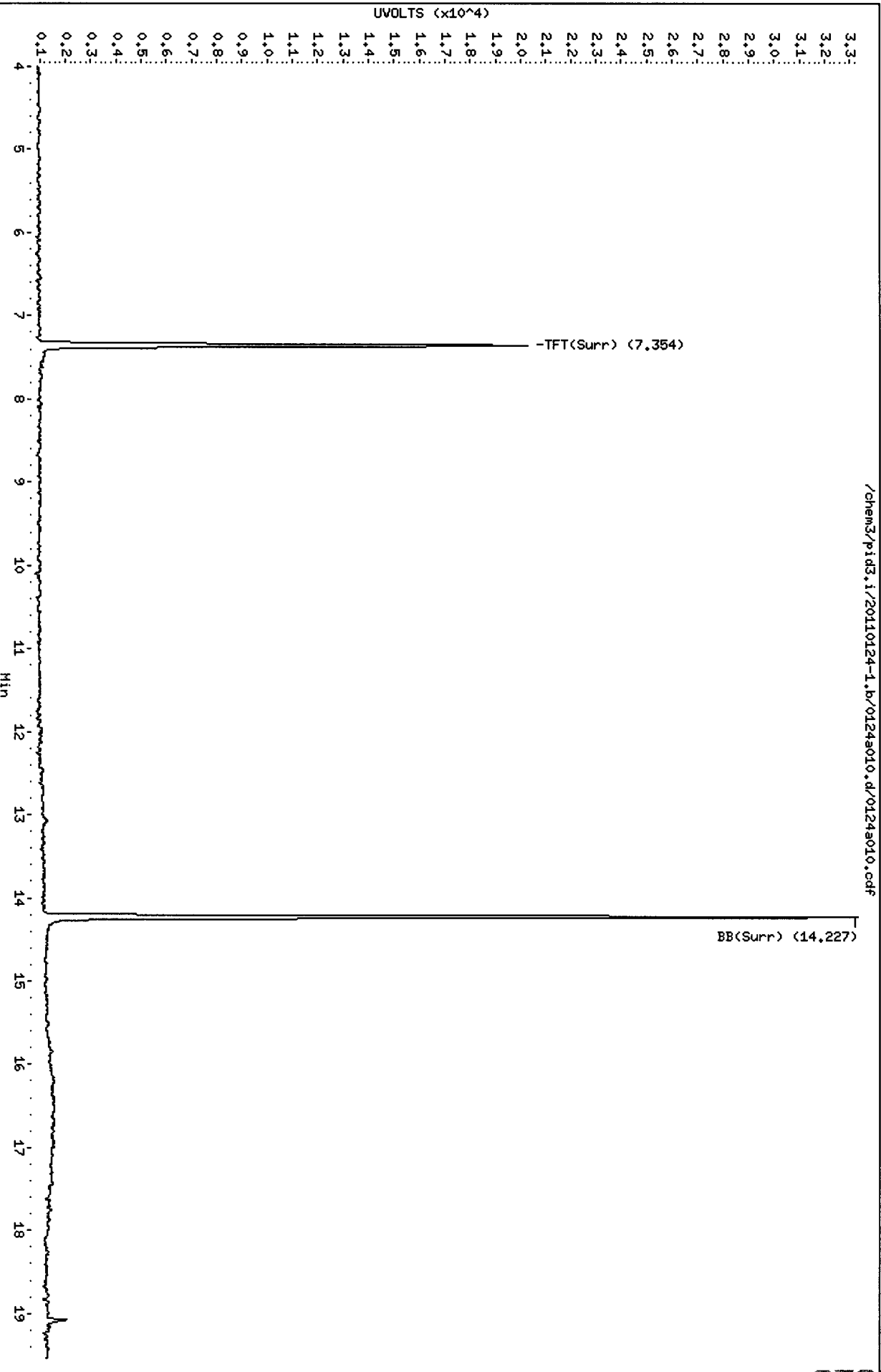
Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

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MH
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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a011.d ARI ID: SF26D
Data file 2: /chem3/pid3.i/20110124-1.b/0124a011.d Client ID: MW14-011911
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 10:39
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.354	0.001	6916	82665	99.2	TFT(Surr)
14.228	0.001	3227	34550	98.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	32863	0.036
8015B 2MP-TMB (3.72 to 15.35)	1702573	9564	0.006
AK101 nC6-nC10 (4.22 to 13.96)	1177929	8229	0.007
NWTPHG Tol-Nap (9.09 to 18.35)	942411	35070	0.037

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
7.353	0.001	19635	96.7	TFT(Surr)
14.226	0.002	32325	96.5	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

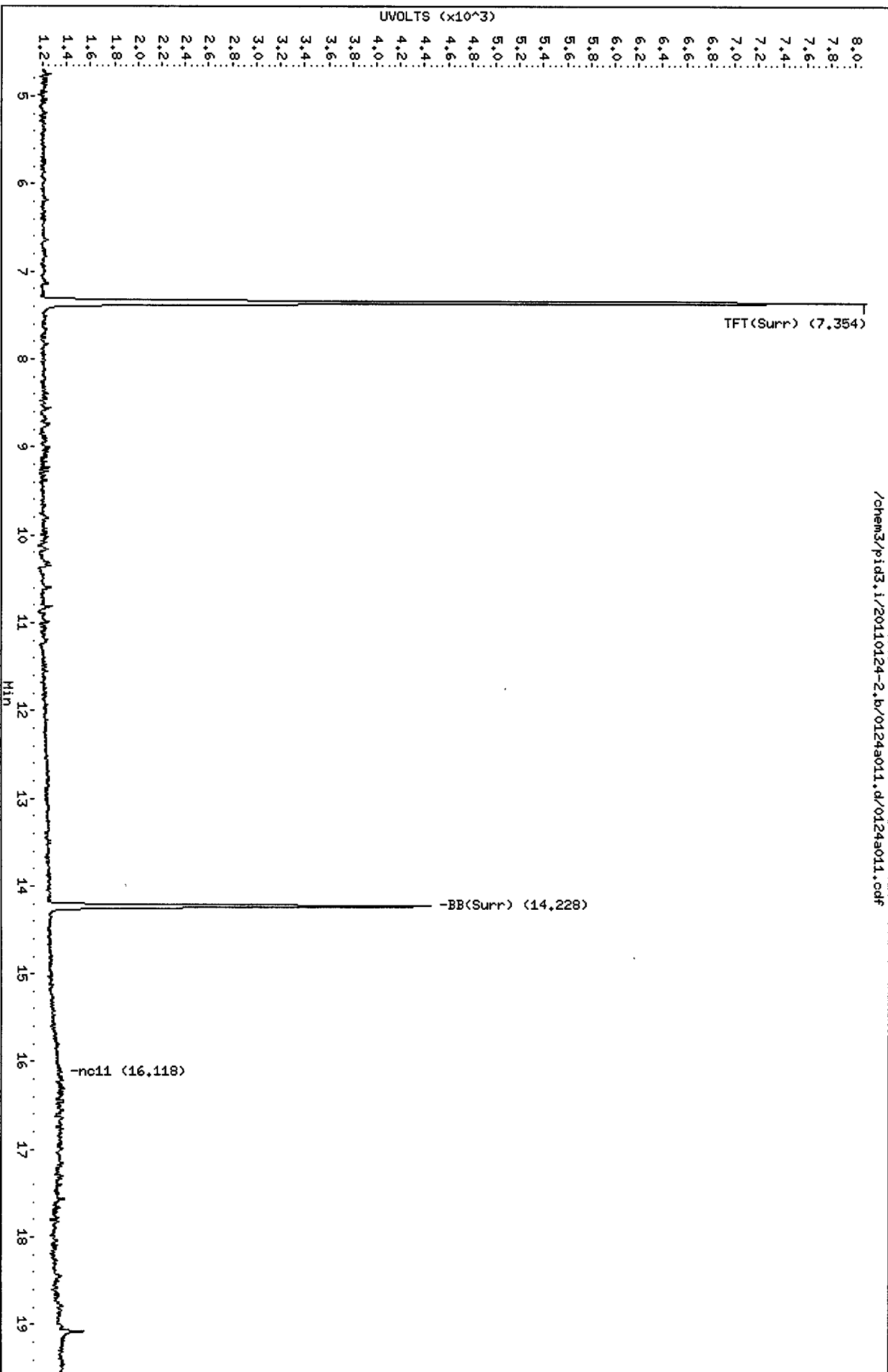
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20110124-2.b/0124a011.d
Date: 24-JAN-2011 10:39
Client ID: HM14-011911
Sample Info: SF26D

Column phase: RTX 502-2 FID

Operator: HH
Column diameter: 0.18

/chem3/pid3.i/20110124-2.b/0124a011.d/0124a011.cdf



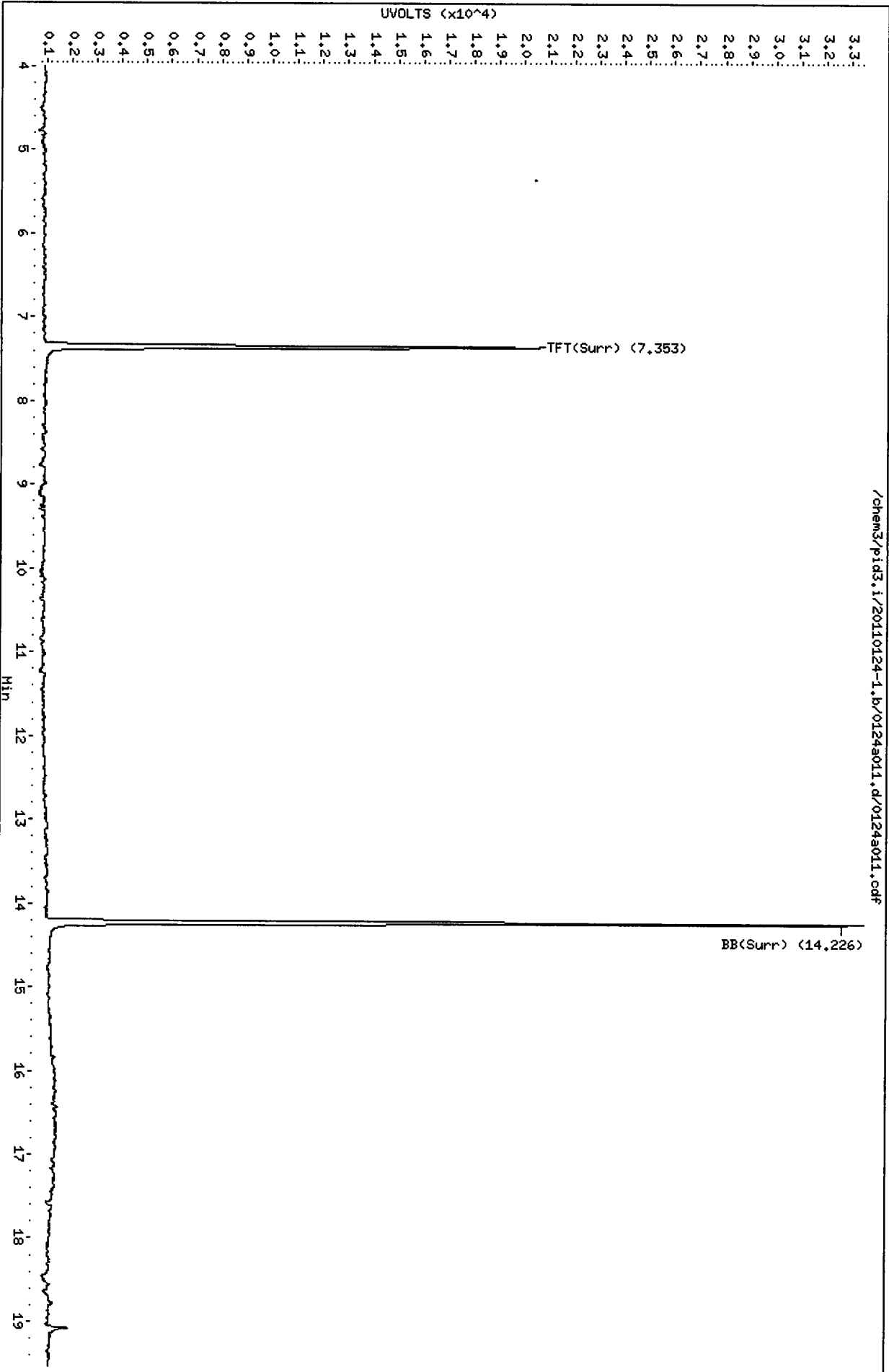
Data File: /chem3/pid3.i/20110124-1.b/0124s011.d
Date : 24-JAN-2011 10:39
Client ID: MM14-011911
Sample Info: SF26D

Instrument: pid3.i

Column phase: RTX 502-2 PID

Operator: MH
Column diameter: 0.18

/chem3/pid3.i/20110124-1.b/0124s011.d/0124s011.cdf



MH
1/25/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a012.d ARI ID: SF26DMS
Data file 2: /chem3/pid3.i/20110124-1.b/0124a012.d Client ID: MW14-011911 MS
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 11:05
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.355	0.002	7320	92759	105.0	TFT(Surr)
14.227	0.001	3350	49526	101.8	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	929053	1.026 M
8015B 2MP-TMB (3.72 to 15.35)	1702573	1787511	1.050 M
AK101 nC6-nC10 (4.22 to 13.96)	1177929	1241303	1.054 M
NWTPHG Tol-Nap (9.09 to 18.35)	942411	987596	1.048 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
7.354	0.002	20340	100.2	TFT(Surr)
14.226	0.001	33250	99.2	BB(Surr)

SW8021 (PID)

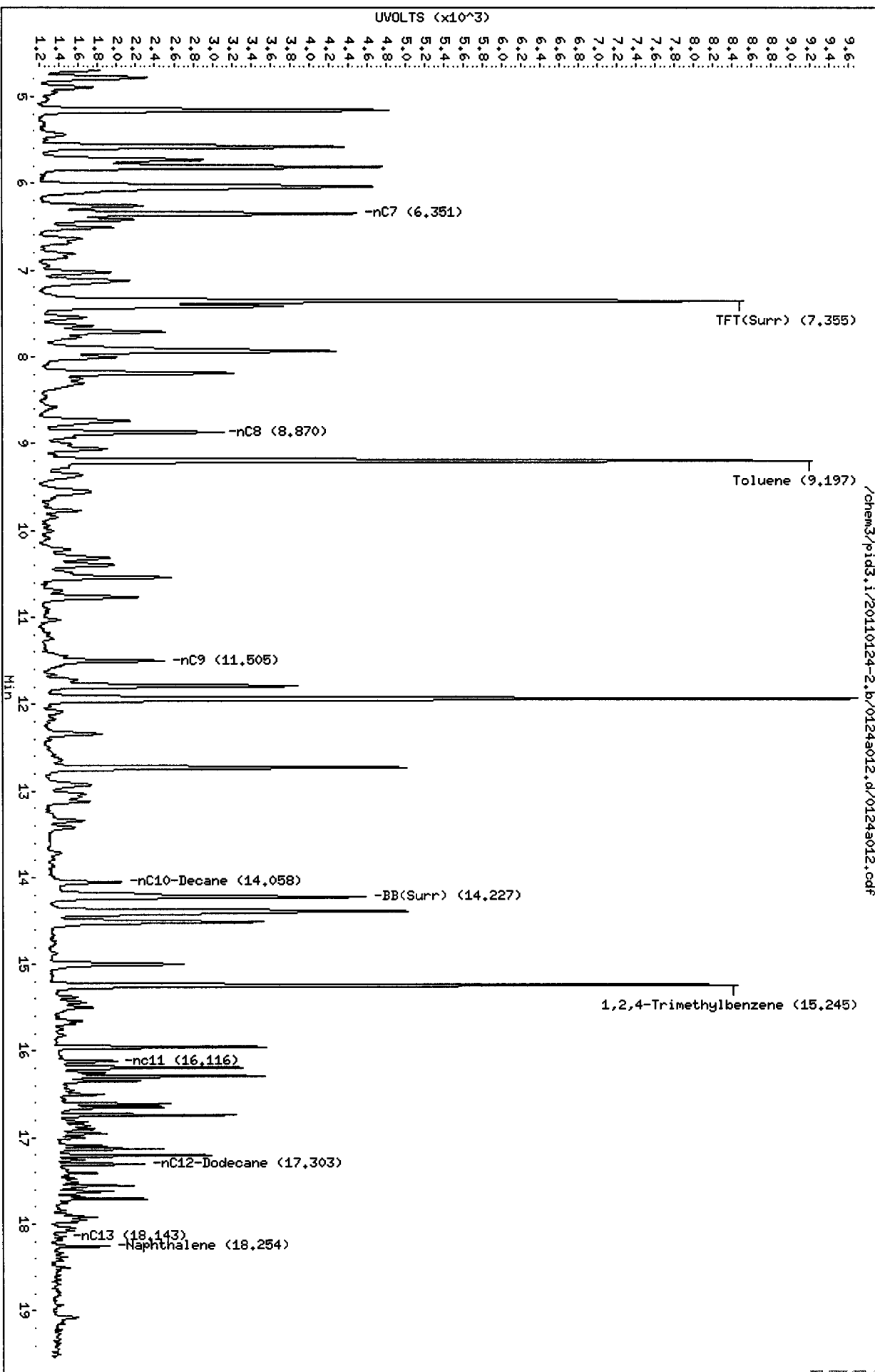
RT	Shift	Response	Amount	Compound
6.510	0.004	3724	2.68	Benzene
9.196	0.002	38596	29.69	Toluene
11.793	0.001	10897	9.66	Ethylbenzene
11.939	0.004	42063	34.07	M/P-Xylene
12.733	0.002	15719	14.09	O-Xylene
4.088	0.001	46187	100.62	MTBE

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

Data File: /chem3/pid3.i/20110124-2.b/0124a012.d
Date : 24-JAN-2011 11:05
Client ID: MML4-011911 MS
Sample Info: SF26DMS

Column phase: RTX 502-2 FID

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



Data File: /chem3/pid3.i/20110124-1.b/0124a012.d

Date: 24-JAN-2011 11:05

Client ID: HM44-011911 MS

Sample Info: SF26DHS

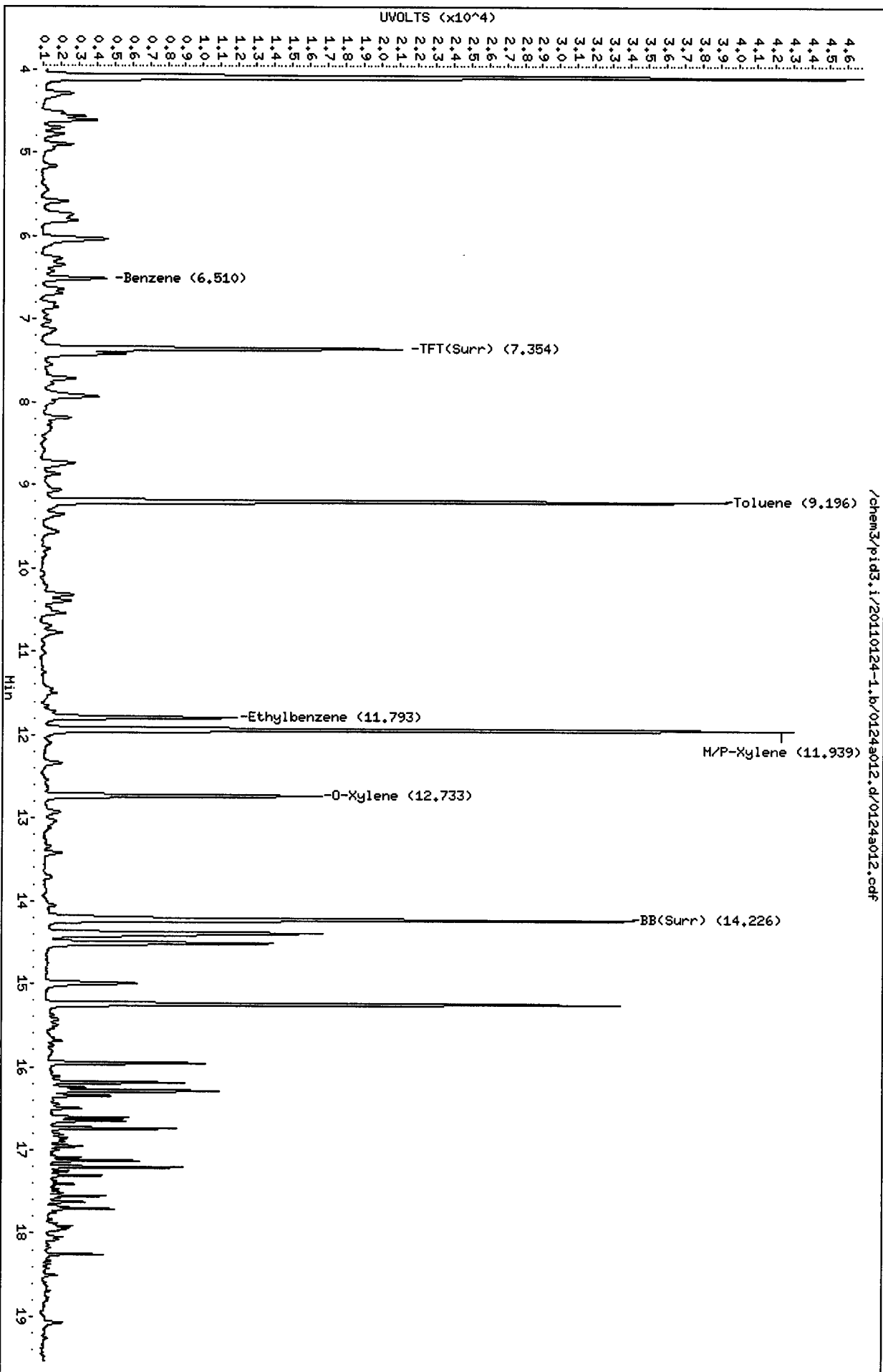
Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: HH

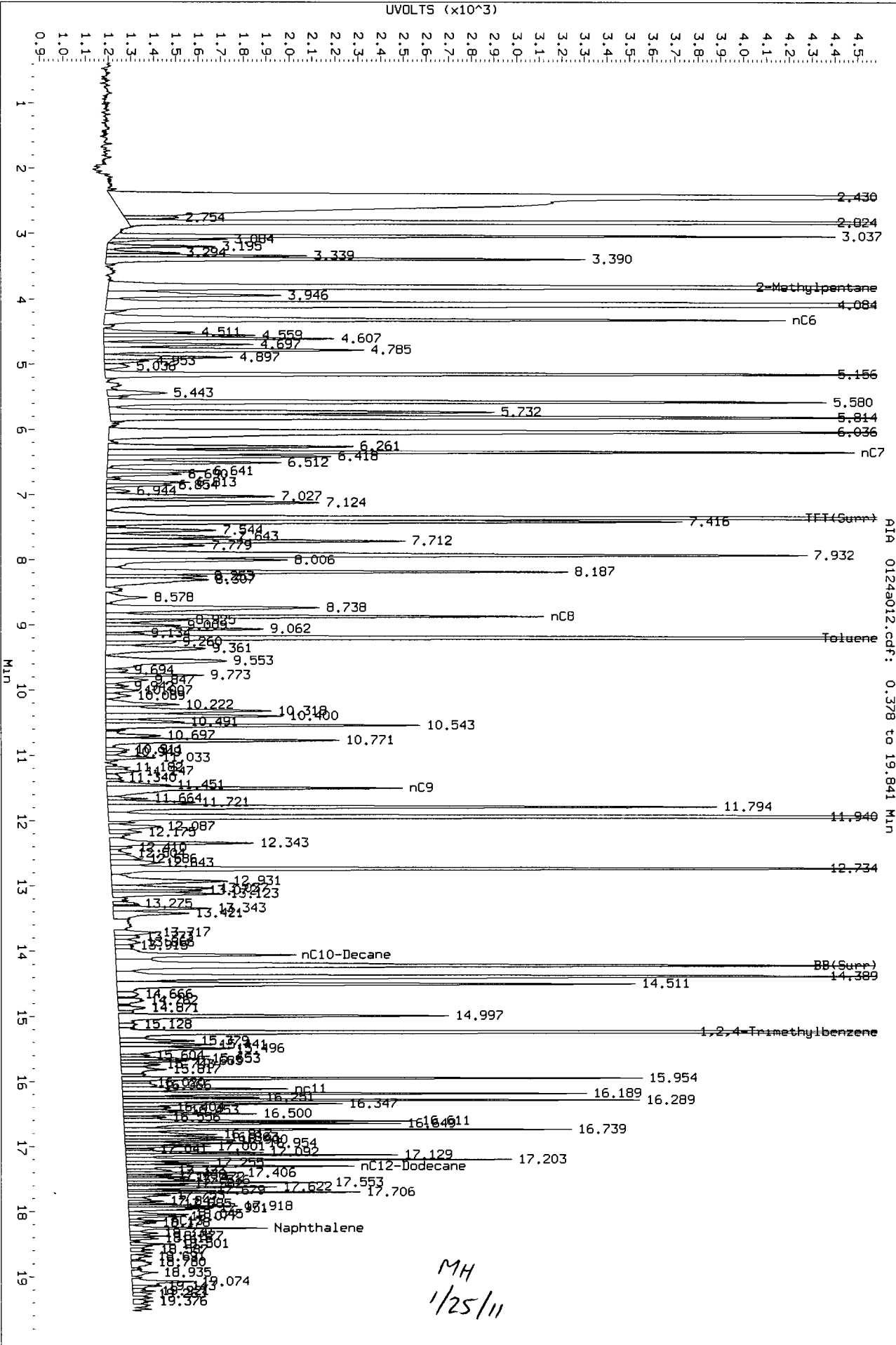
Column diameter: 0.18

Page 1

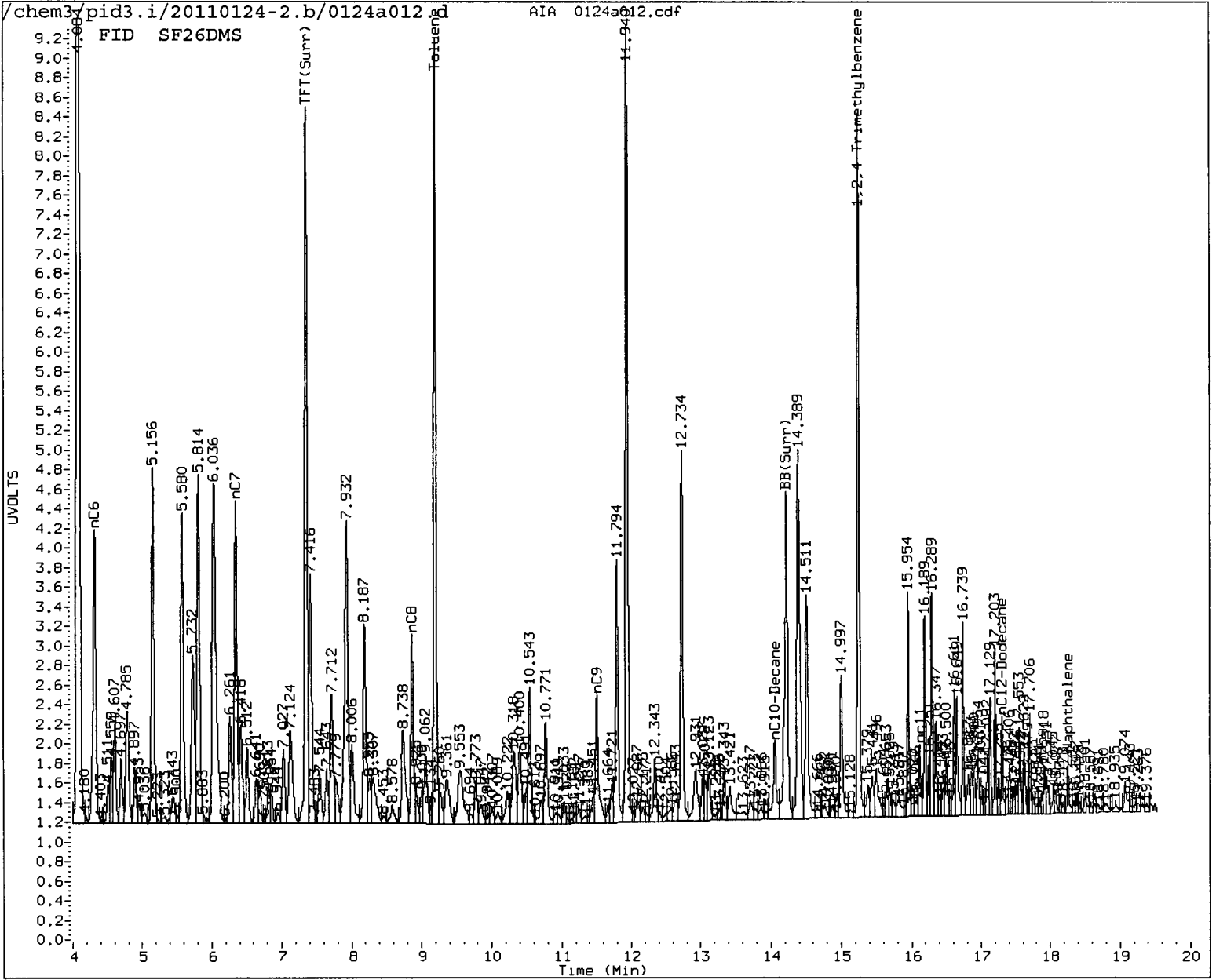


/chem3/pid3.i/20110124-1.b/0124a012.d/0124a012.cdf

Data File: /chem3/pid3.1/20110124-2.b/0124a012.d/0124a012.cdf
 Injection Date: 24-JAN-2011 11:05
 Instrument: pid3.1
 Client Sample ID: MW14-011911 MS



MH
1/25/11



MANUAL INTEGRATION

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

Analyst: MH

Date: 1/25/11

MA
1/25/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a013.d ARI ID: SF26DMSD
Data file 2: /chem3/pid3.i/20110124-1.b/0124a013.d Client ID: MW14-011911 MSD
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 11:31
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.354	0.002	7214	90528	103.5	TFT(Surr)
14.227	0.000	3307	48578	100.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	950637	1.050 M
8015B 2MP-TMB (3.72 to 15.35)	1702573	1817772	1.068 M
AK101 nC6-nC10 (4.22 to 13.96)	1177929	1272188	1.080 M
NWTPHG Tol-Nap (9.09 to 18.35)	942411	1004696	1.066 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
7.353	0.002	20075	98.9	TFT(Surr)
14.226	0.001	32455	96.9	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
6.509	0.003	3627	2.61	Benzene
9.196	0.002	38256	29.43	Toluene
11.793	0.001	10816	9.59	Ethylbenzene
11.939	0.003	42065	34.07	M/P-Xylene
12.733	0.001	15294	13.71	O-Xylene
4.087	0.000	45215	98.51	MTBE

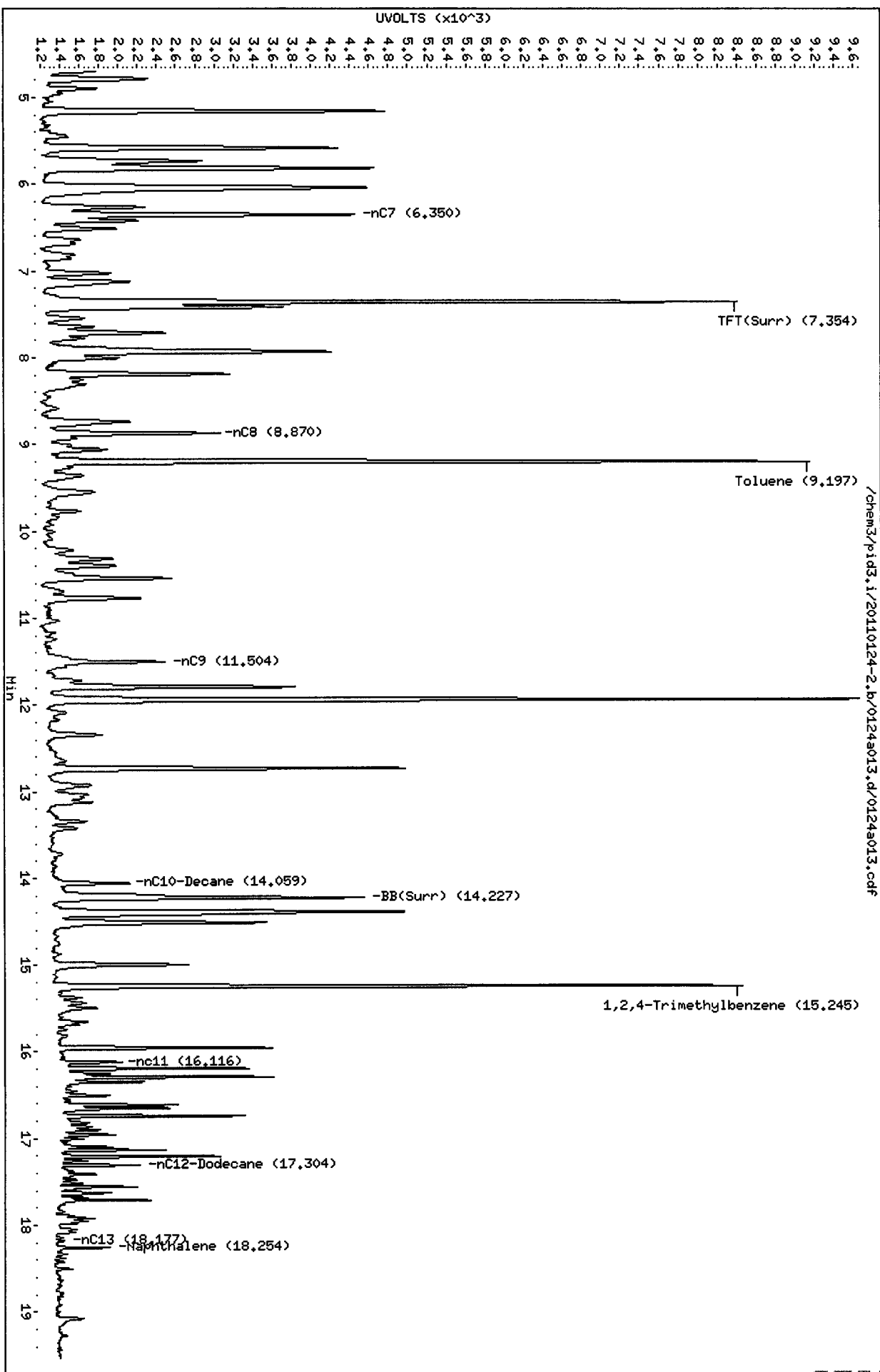
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20110124-2.b/0124a013.d
Date : 24-JAN-2011 11:31
Client ID: MW14-011911 MSD
Sample Info: SF26DMSD

Column phase: RTX 502-2 FID

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

/chem3/pid3.i/20110124-2.b/0124a013.d/0124a013.cdf



Data File: /chem3/pid3.i/20110124-1.b/0124a013.d

Date : 24-JAN-2011 11:31

Client ID: MML4-011911 MSD

Sample Info: SF26DMSD

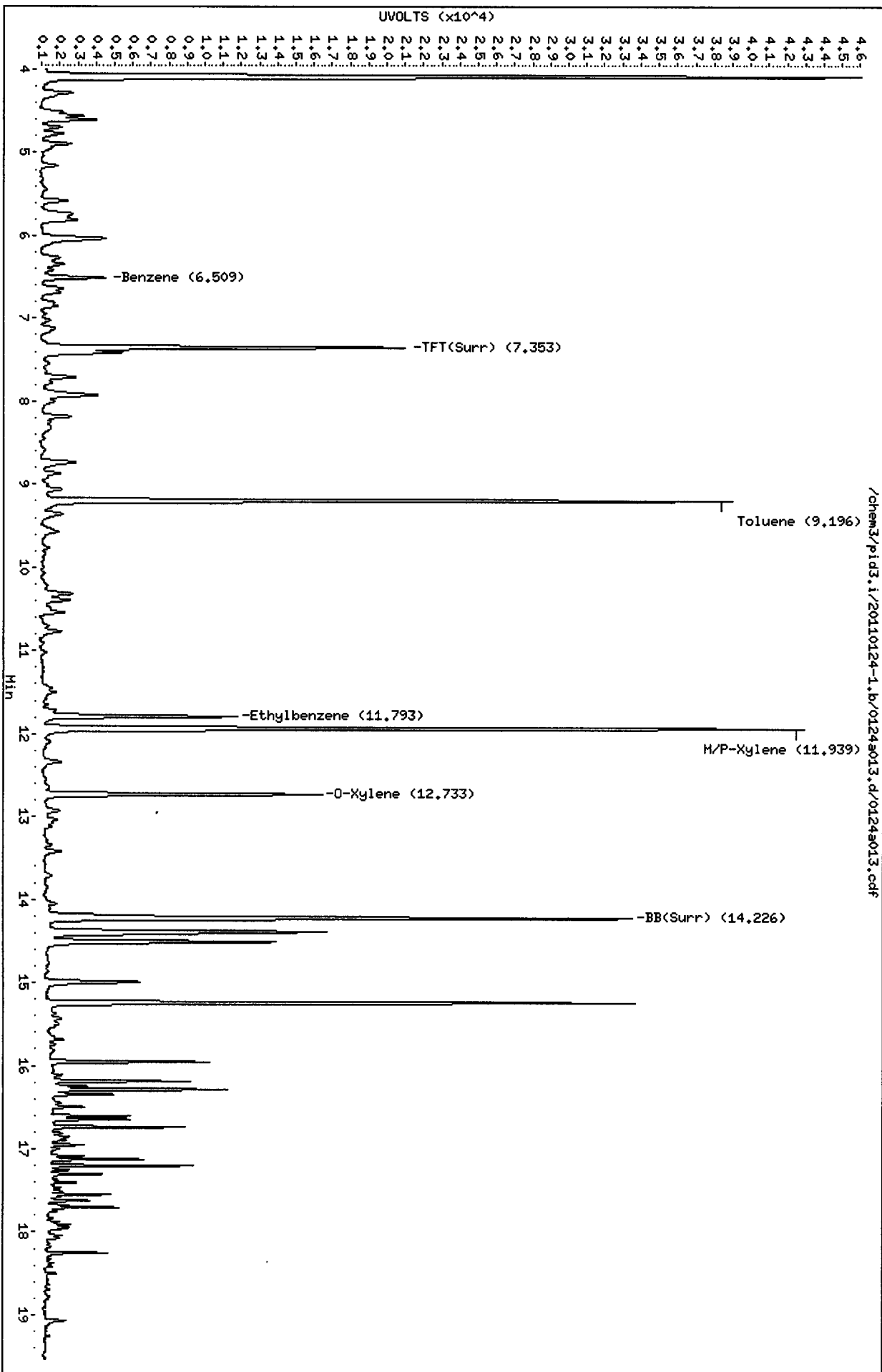
Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

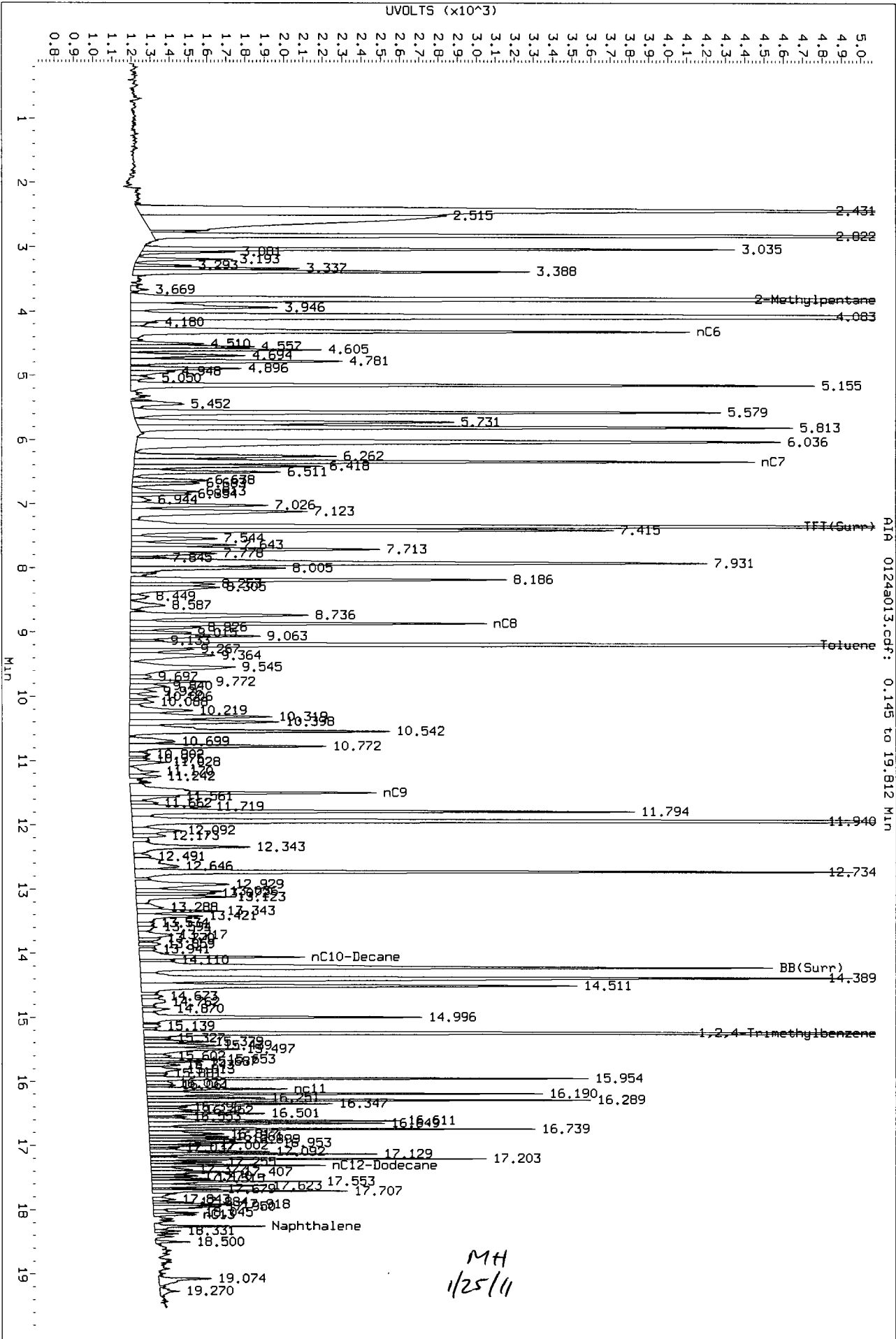
Page 1



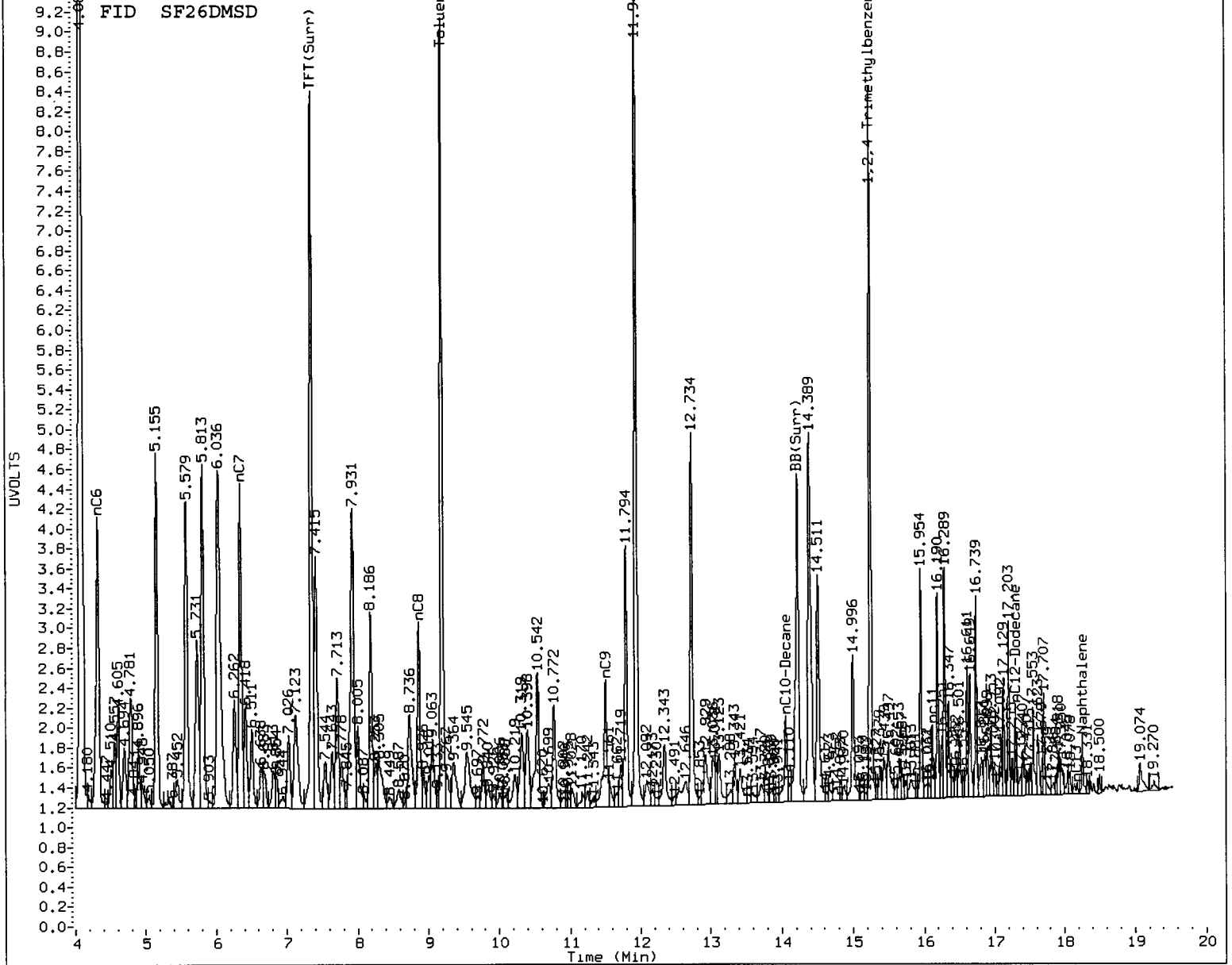
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SF26 : 0141

Data File: /chem3/pld3.1/20110124-2.b/0124a013.d/0124a013.cdf
Injection Date: 24-JAN-2011 11:31
Instrument: pld3.1
Client Sample ID: MW14-011911 MSD



MH
1/25/11



MANUAL INTEGRATION

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

Analyst: MH Date: 1/25/11

M4
1/25/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a015.d ARI ID: BCAL 2
Data file 2: /chem3/pid3.i/20110124-1.b/0124a015.d Client ID:
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 12:24
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.355	0.003	6789	81121	97.4	TFT(Surr)
14.228	0.001	3220	35362	97.9	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	509222	0.562
8015B 2MP-TMB (3.72 to 15.35)	1702573	519354	0.305
AK101 nC6-nC10 (4.22 to 13.96)	1177929	485659	0.412
NWTPHG Tol-Nap (9.09 to 18.35)	942411	509222	0.540

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
7.354	0.003	19407	95.6	TFT(Surr)
14.226	0.002	32840	98.0	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
6.508	0.002	33166	23.90	Benzene
9.197	0.003	30468	23.44	Toluene
11.794	0.002	26946	23.89	Ethylbenzene
11.938	0.002	59418	48.13	M/P-Xylene
12.734	0.002	26178	23.47	O-Xylene
4.088	0.001	11237	24.48	MTBE

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

Data File: /chem3/pid3.i/20110124-2.b/0124a015.d

Date : 24-JAN-2011 12:24

Client ID:

Sample Info: BCL 2

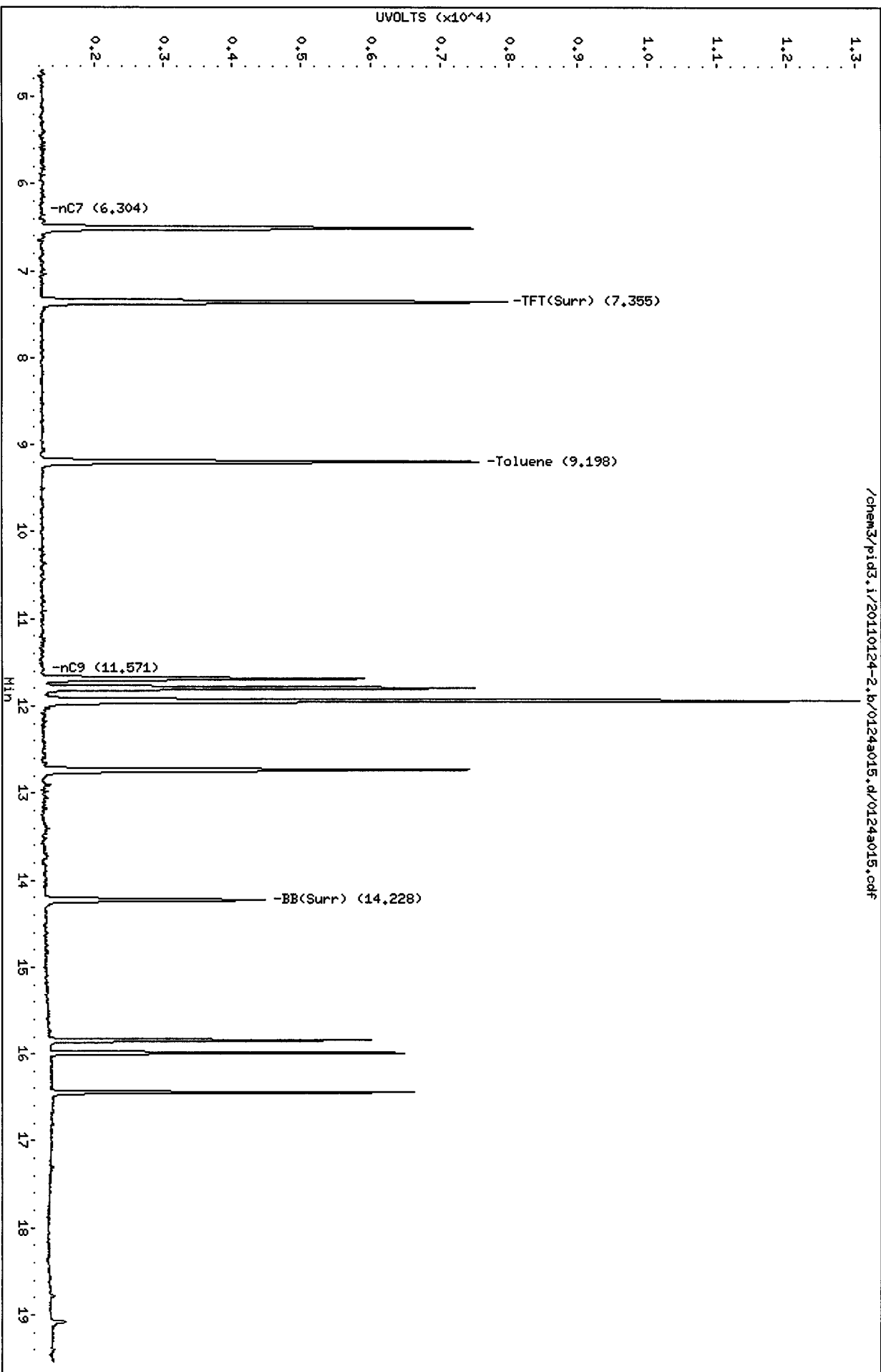
Instrument: pid3.i

Operator: HH

Column diameter: 0.18

Column phase: RTX 502-2 FID

/chem3/pid3.i/20110124-2.b/0124a015.d/0124a015.cdf

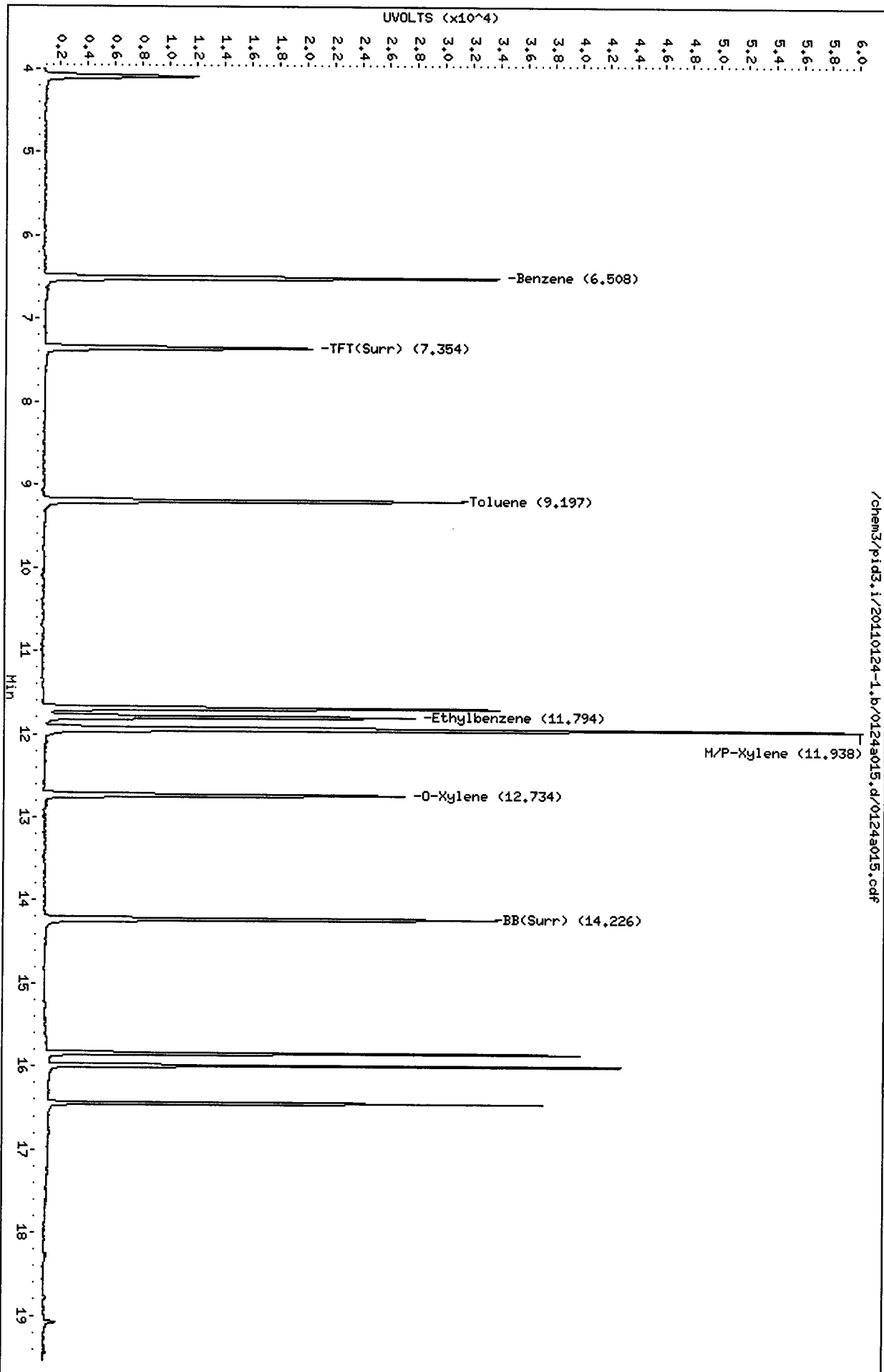


Data File: /chem3/pid3.i/20110124-1.b/0124a015.d
Date: 24-JAN-2011 12:24
Client ID:
Sample Info: BICAL 2

Column phase: RTX 502-2 PID

/chem3/pid3.i/20110124-1.b/0124a015.d/0124a015.cdf

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



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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a016.d ARI ID: GCAL 2
Data file 2: /chem3/pid3.i/20110124-1.b/0124a016.d Client ID:
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 12:50
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.355	0.003	7714	99644	110.6	TFT(Surr)
14.227	0.001	3426	40119	104.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	2062788	2.278 M
8015B 2MP-TMB (3.72 to 15.35)	1702573	4026992	2.365 M
AK101 nC6-nC10 (4.22 to 13.96)	1177929	2738005	2.324 M
NWTPHG Tol-Nap (9.09 to 18.35)	942411	2183404	2.317 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
7.353	0.002	20174	99.4	TFT(Surr)
14.225	0.000	33598	100.3	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
6.509	0.003	8660	6.24	Benzene
9.196	0.002	93763	72.14	Toluene
11.793	0.001	26247	23.27	Ethylbenzene
11.940	0.004	102429	82.97	M/P-Xylene
12.733	0.002	38177	34.23	O-Xylene
4.089	0.002	109696	238.99	MTBE

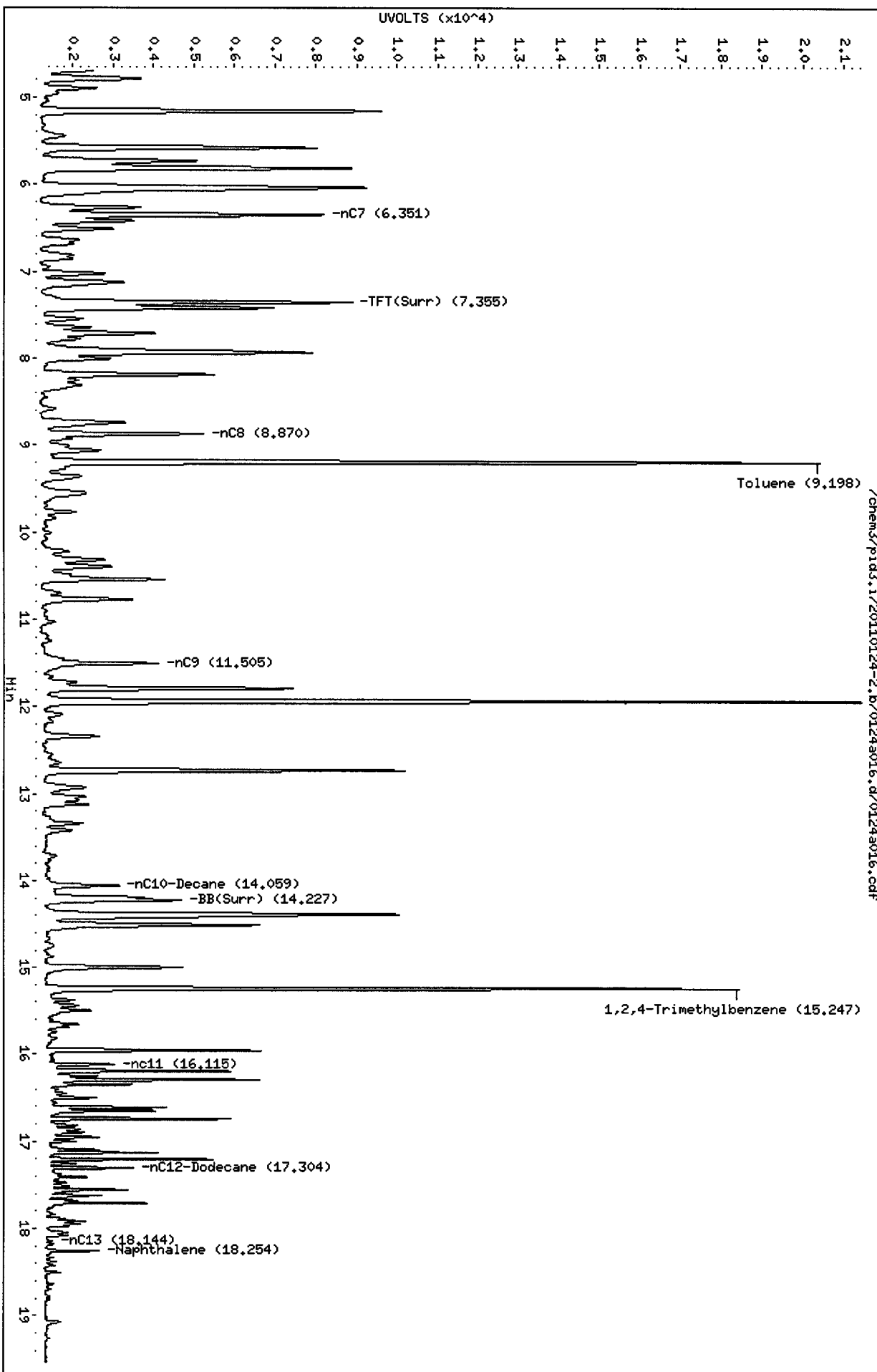
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20110124-2.b/0124s016.d
Date : 24-JAN-2011 12:50
Client ID:
Sample Info: GCAL 2

Column phase: RTX 502-2 FID

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

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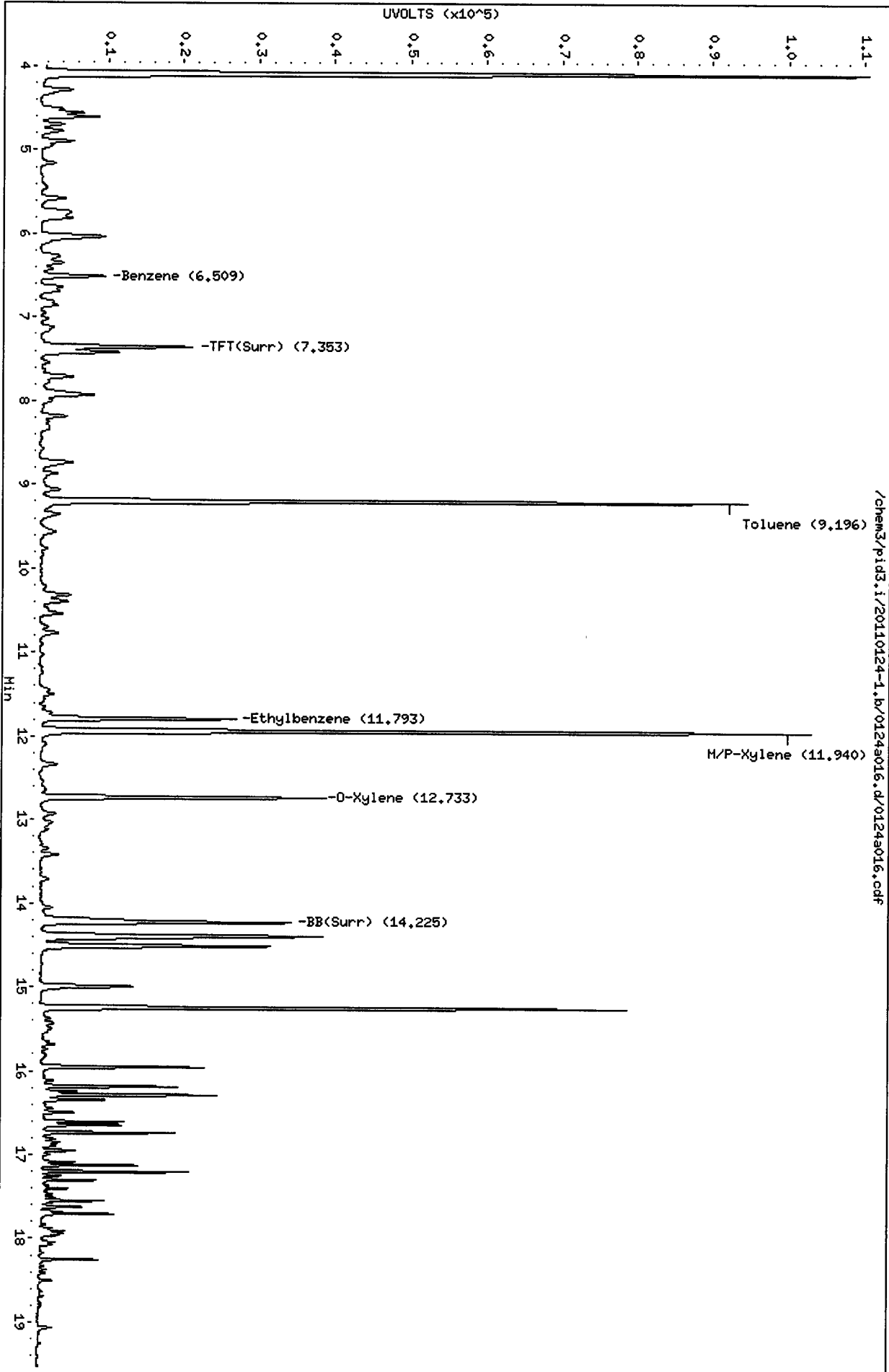


012410 : 26 SF

Data File: /chem3/pid3.i/20110124-1.b/0124a016.d
Date : 24-JAN-2011 12:50
Client ID:
Sample Info: GCAL 2

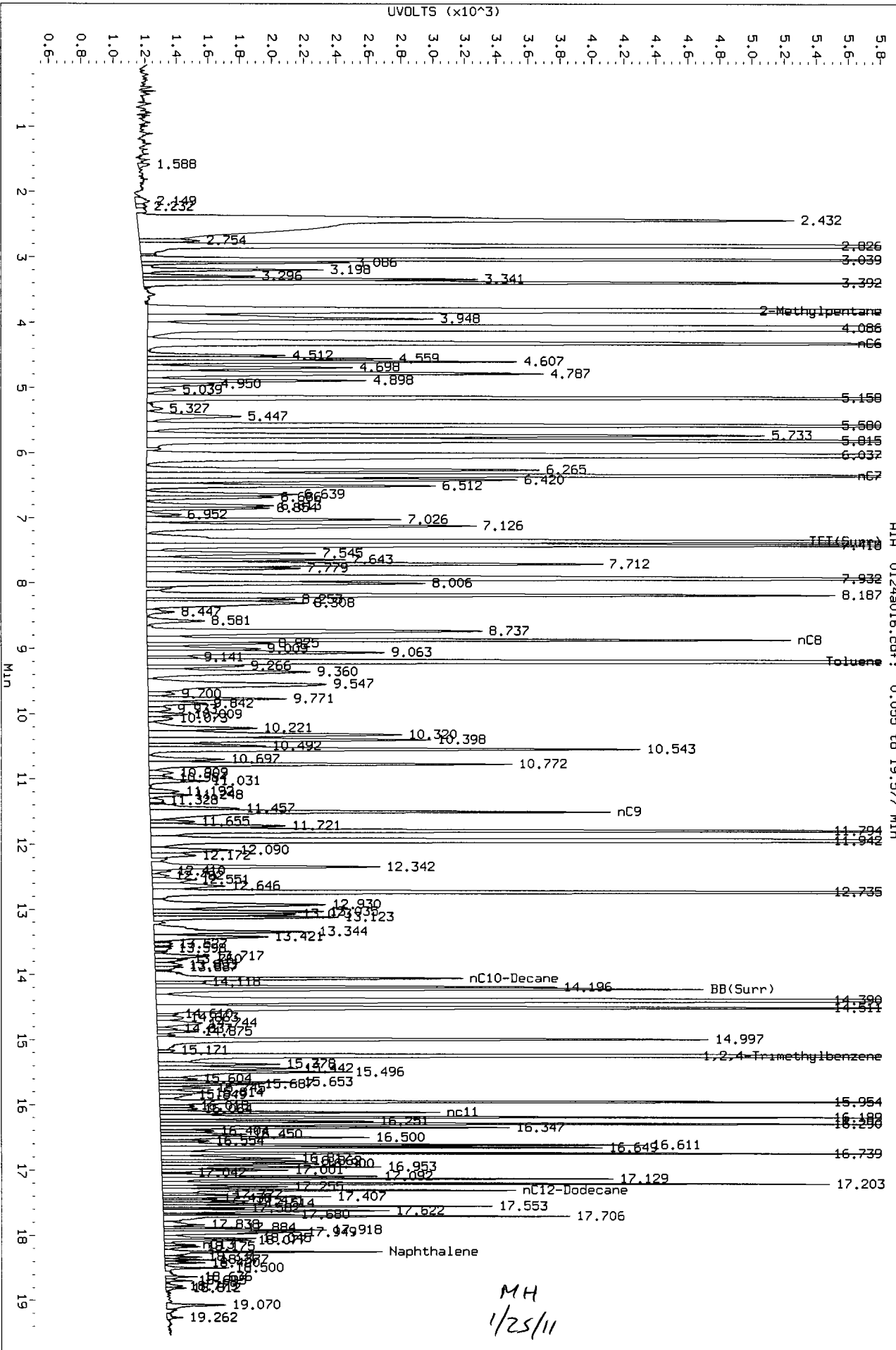
Column phase: RTX 502-2 PID

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

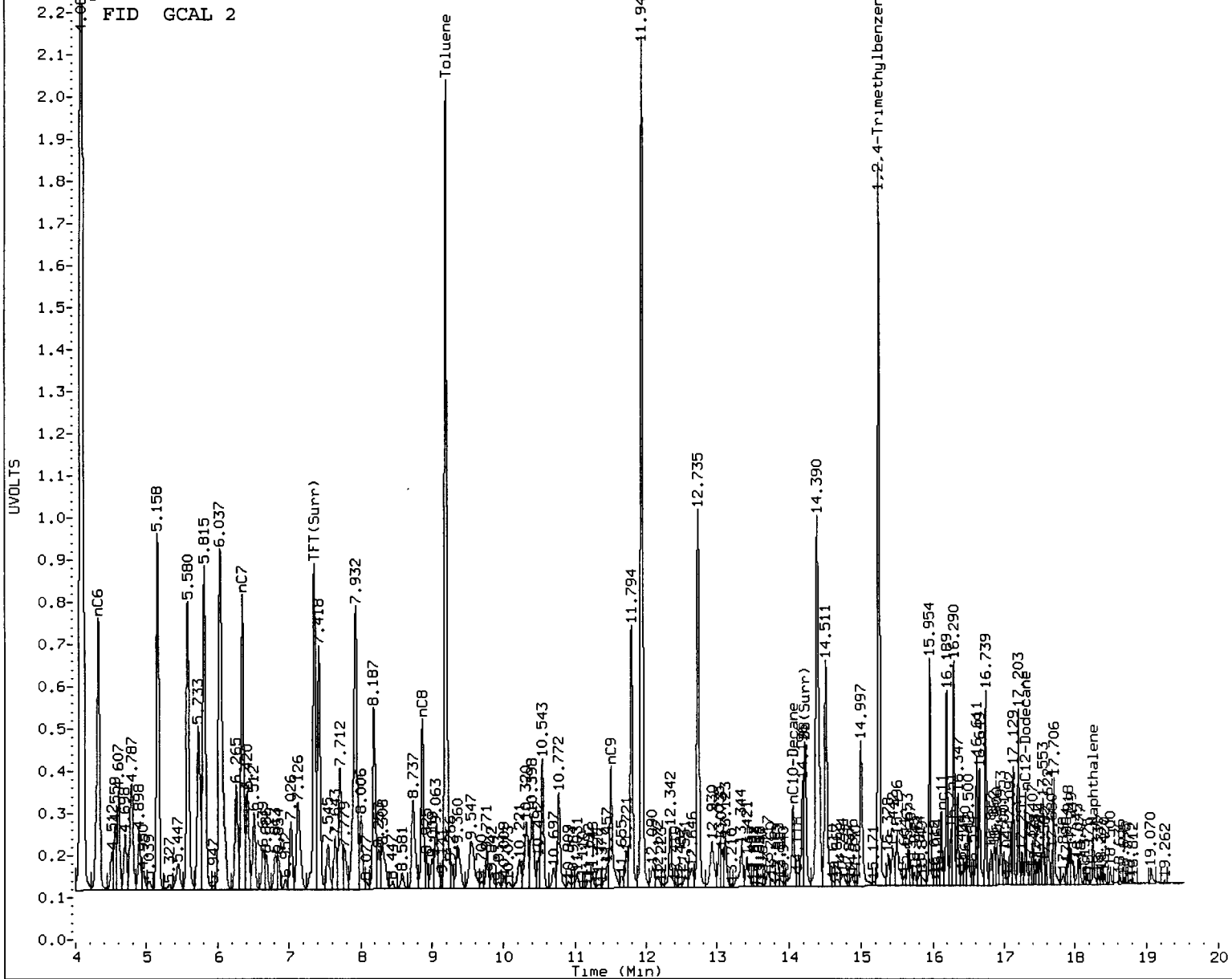


/chem3/pid3.i/20110124-1.b/0124a016.d/0124a016.cdf

Data File: /chem3/pid3.1/20110124-2.b/0124a016.d/0124a016.cdf
Injection Date: 24-JAN-2011 12:50
Instrument: pid3.1
Client Sample ID:



MH
1/25/11



MANUAL INTEGRATION

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

Analyst: MA

Date: 1/25/11

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1/25/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a017.d ARI ID: SF50A
Data file 2: /chem3/pid3.i/20110124-1.b/0124a017.d Client ID: MW13-012011
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 13:16
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.355	0.002	6868	81421	98.5	TFT (Surr)
14.227	0.001	3260	35925	99.1	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	79278	0.088
8015B 2MP-TMB (3.72 to 15.35)	1702573	28349	0.017
AK101 nC6-nC10 (4.22 to 13.96)	1177929	19349	0.016
NWTPHG Tol-Nap (9.09 to 18.35)	942411	87618	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
7.354	0.003	19553	96.3	TFT (Surr)
14.226	0.002	31913	95.2	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/20110124-2.b/0124s017.d

Date: 24-JAN-2011 13:16

Client ID: HMI3-012011

Sample Info: SF50A

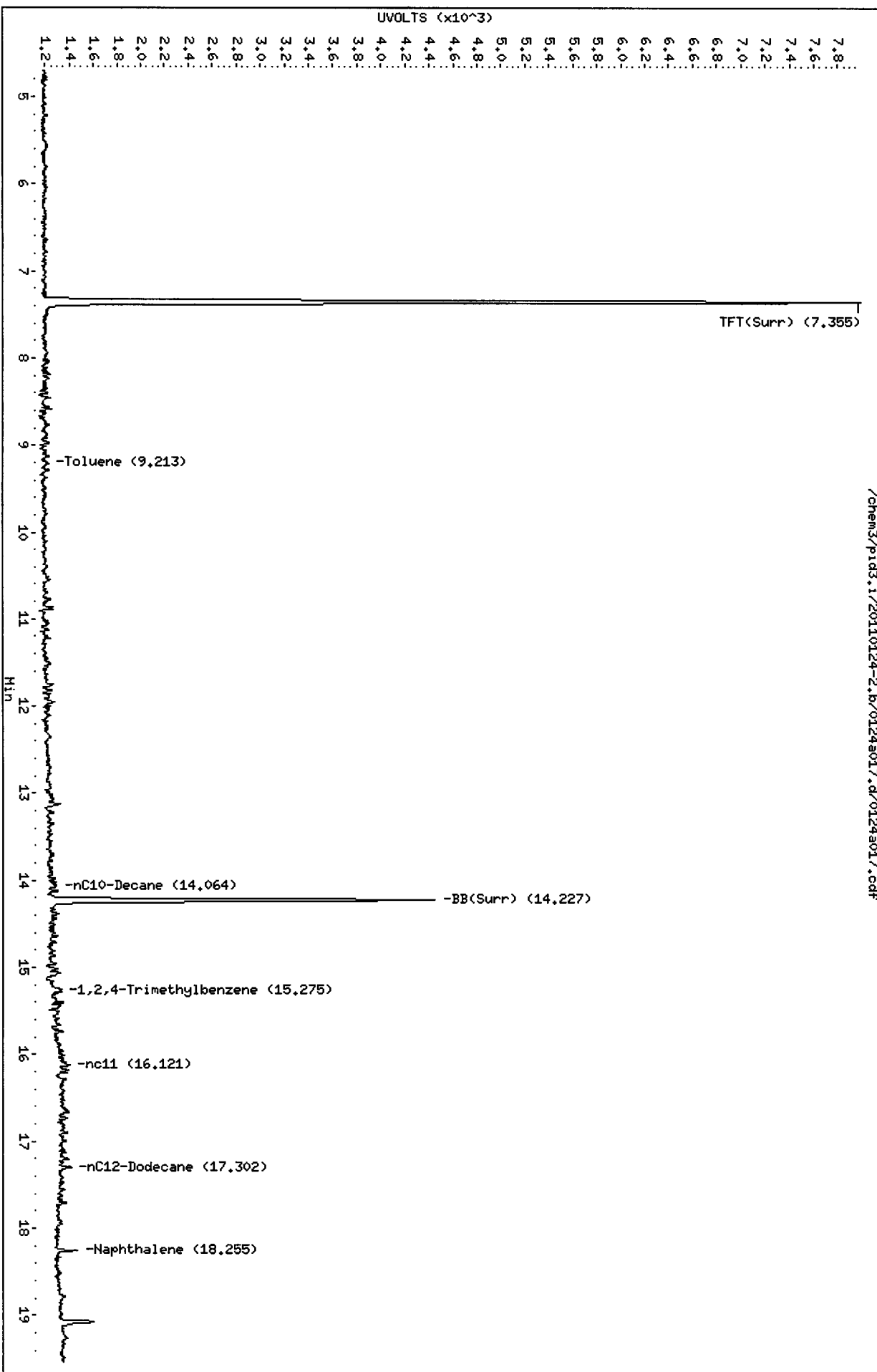
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

/chem3/pid3.i/20110124-2.b/0124s017.d/0124s017.cdf

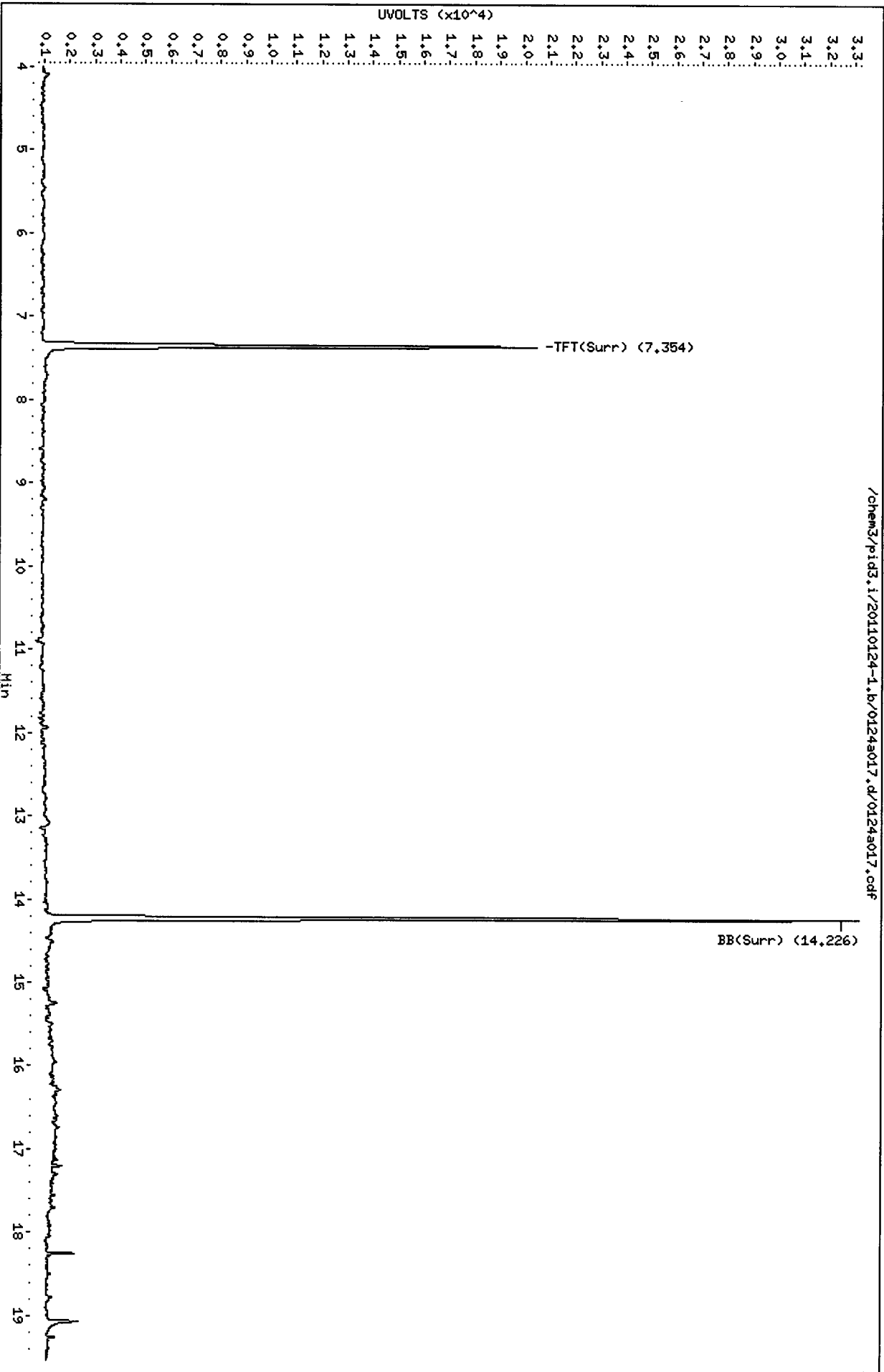


Data File: /chem3/pid3.i/20110124-1.b/0124s017.d
Date : 24-JAN-2011 13:16
Client ID: MM13-012011
Sample Info: SF504

Column phase: RTX 502-2 PID

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

/chem3/pid3.i/20110124-1.b/0124s017.d/0124s017.cdf



12 11 10 9 8 7 6 5 4

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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a018.d ARI ID: SF50B
Data file 2: /chem3/pid3.i/20110124-1.b/0124a018.d Client ID: MW06-012011
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 13:42
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.355	0.002	7038	83748	101.0	TFT(Surr)
14.228	0.001	3334	35735	101.3	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	92843	0.103
8015B 2MP-TMB (3.72 to 15.35)	1702573	49739	0.029
AK101 nC6-nC10 (4.22 to 13.96)	1177929	41840	0.036
NWTPHG Tol-Nap (9.09 to 18.35)	942411	104665	0.111

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
7.354	0.002	19879	97.9	TFT(Surr)
14.227	0.002	32883	98.1	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/20110124-2.b/0124a018.d

Date: 24-JAN-2011 13:42

Client ID: HM06-012011

Sample Info: SF50B

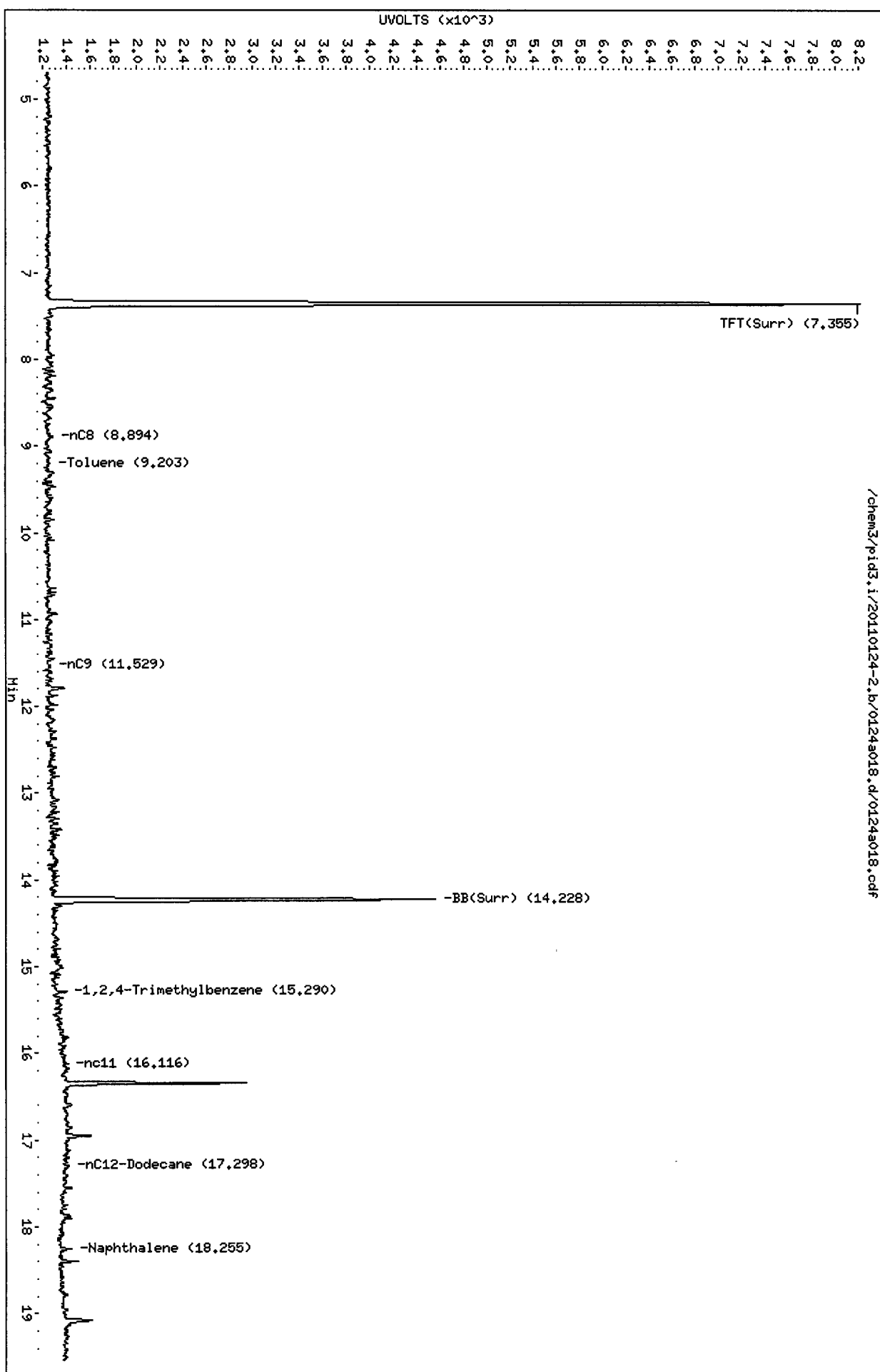
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

/chem3/pid3.i/20110124-2.b/0124a018.d/0124a018.cdf

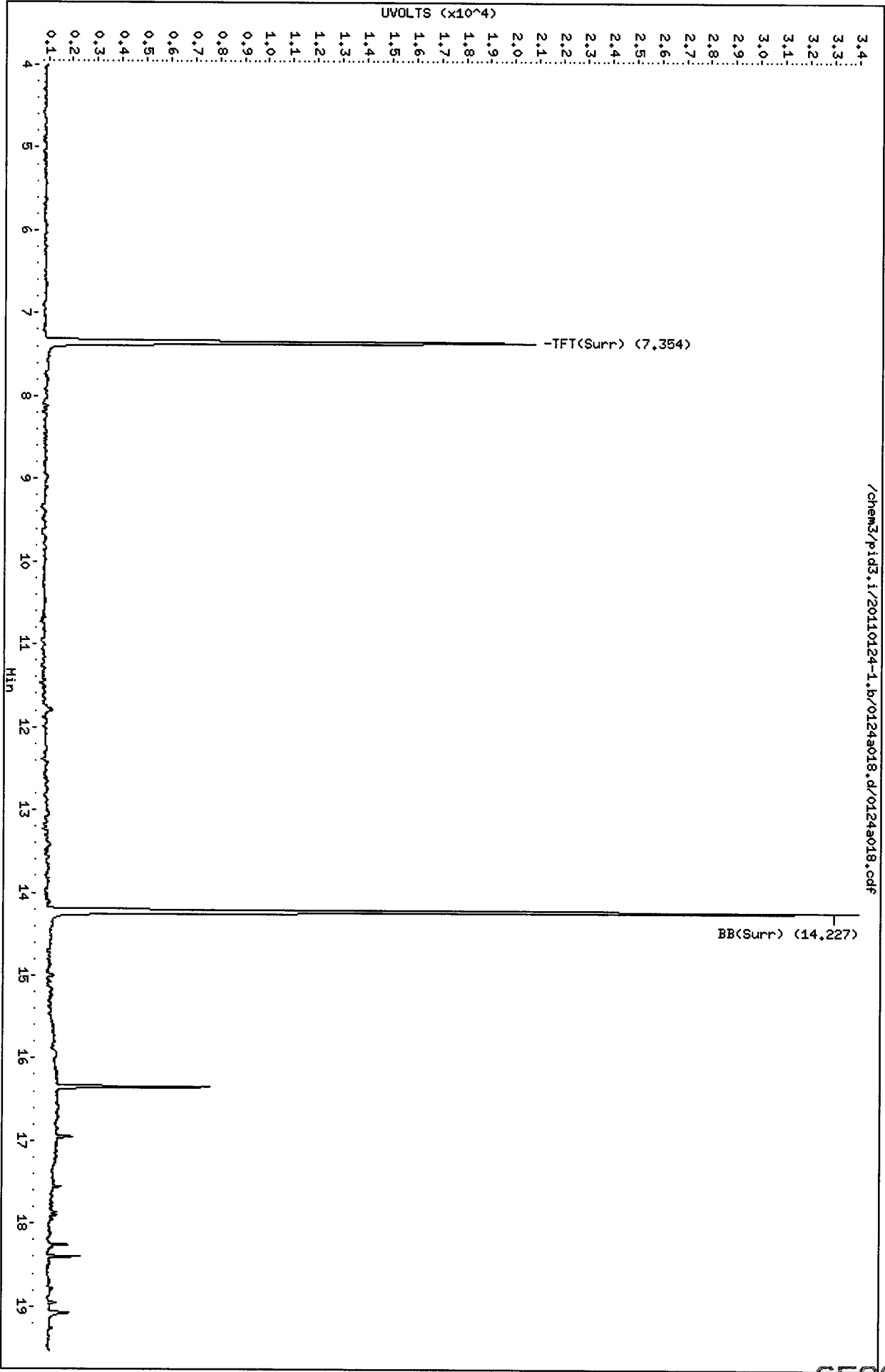


Data File: /chem3/pid3.i/20110124-1.b/0124a018.d
Date: 24-JAN-2011 13:42
Client ID: HM06-012011
Sample Info: SF508

Column phase: RTX 502-2 PID

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

/chem3/pid3.i/20110124-1.b/0124a018.d/0124a018.cdf



0124a018.cdf

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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a019.d ARI ID: SF50C
Data file 2: /chem3/pid3.i/20110124-1.b/0124a019.d Client ID: MW12-012011
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 14:06
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.359	0.006	6904	82102	99.0	TFT(Surr)
14.228	0.002	3281	36159	99.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	62323	0.069
8015B 2MP-TMB (3.72 to 15.35)	1702573	22663	0.013
AK101 nC6-nC10 (4.22 to 13.96)	1177929	15818	0.013
NWTPHG Tol-Nap (9.09 to 18.35)	942411	65722	0.070

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
7.358	0.006	19656	96.8	TFT(Surr)
14.227	0.002	32047	95.6	BB(Surr)

SW8021 (PID)

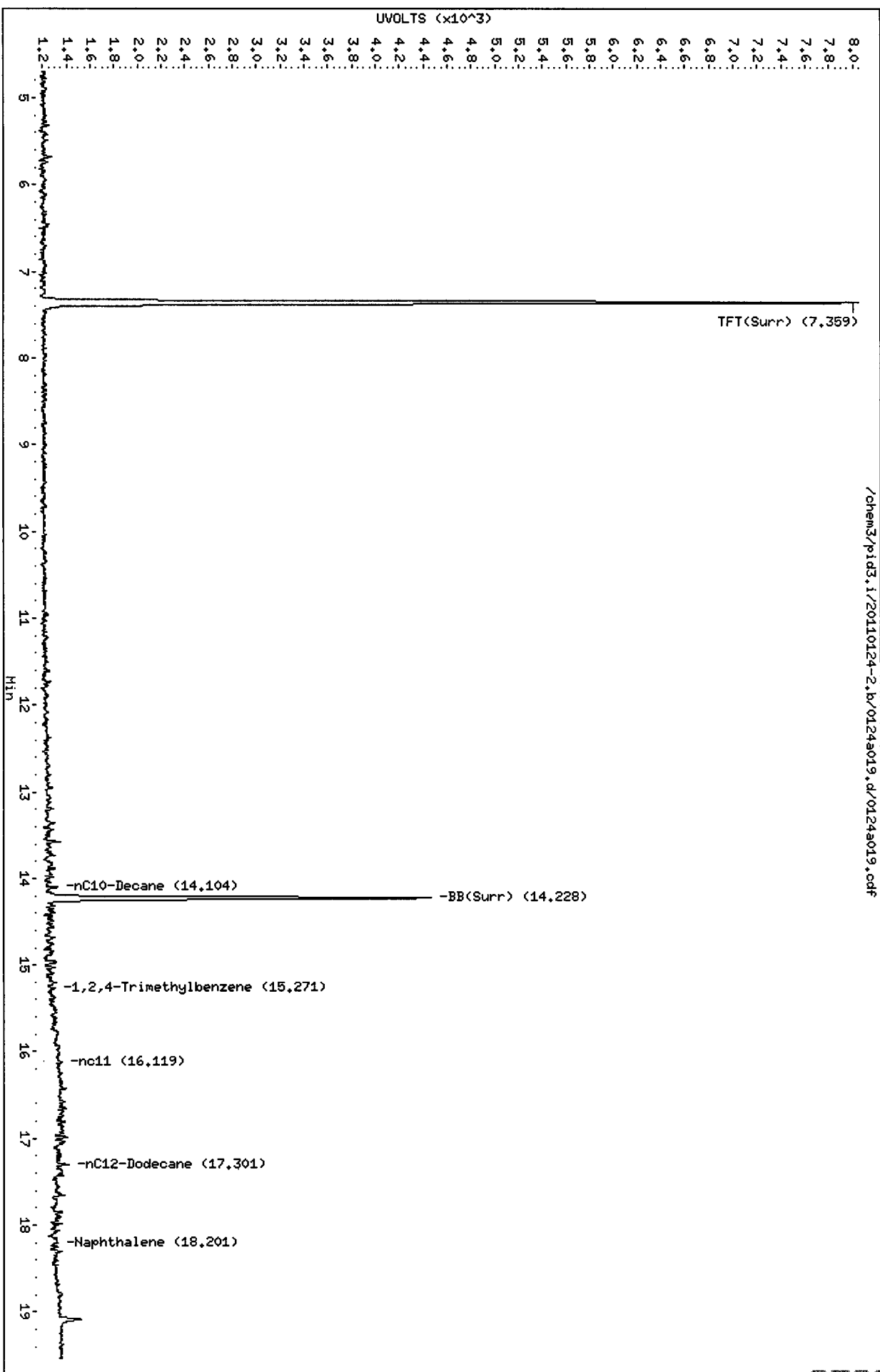
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

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

Data File: /chem3/pid3.i/20110124-2.b/0124a019.d
Date : 24-JAN-2011 14:06
Client ID: HMI2-012011
Sample Info: SF50C

Column phase: RTX 502-2 FID

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



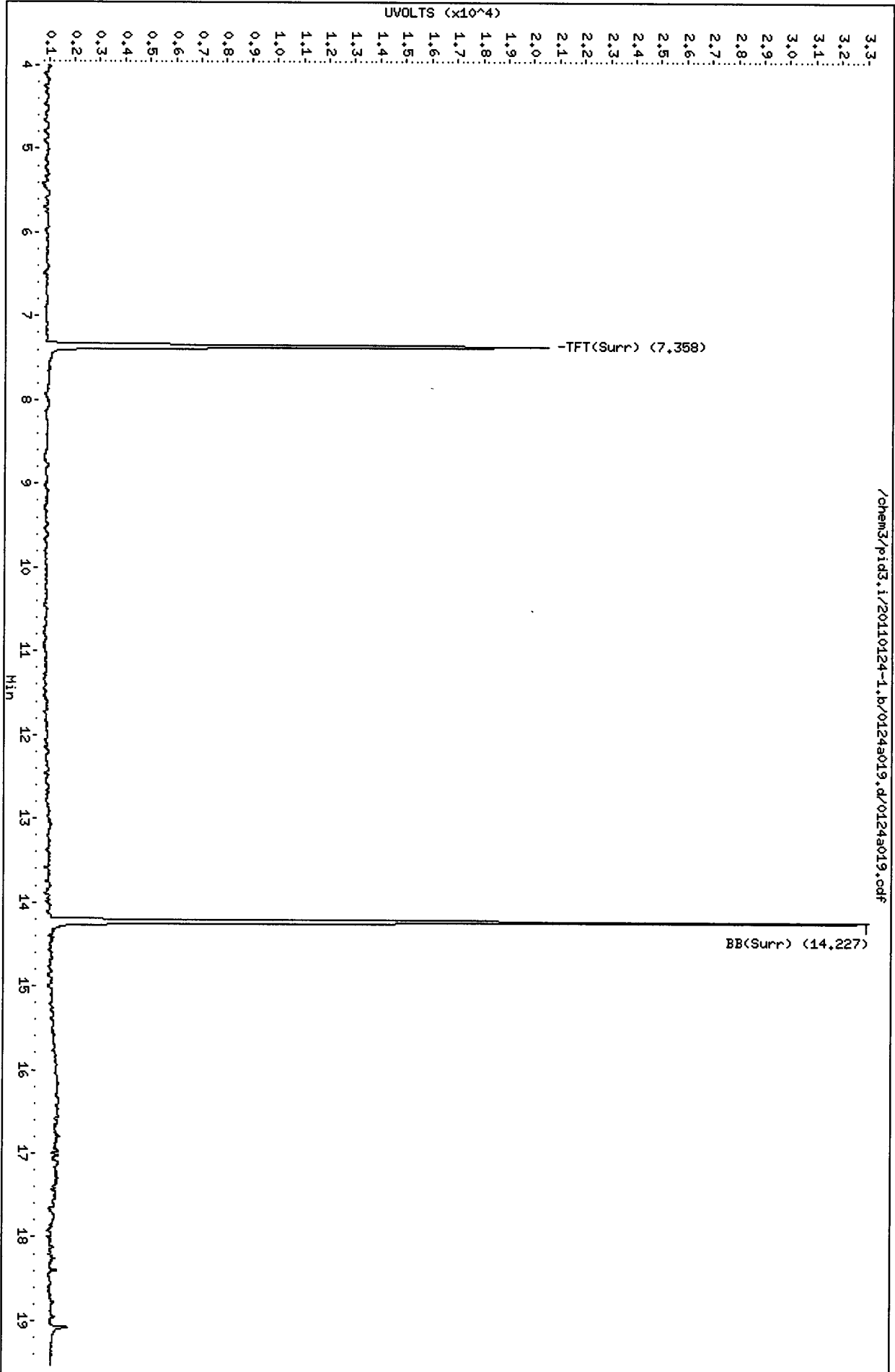
/chem3/pid3.i/20110124-2.b/0124a019.d/0124a019.cdf

Data File: /chem3/pid3.i/20110124-1.b/0124a019.d
Date: 24-JAN-2011 14:06
Client ID: HML2-012011
Sample Info: SF50C

Column phase: RTX 502-2 PID

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

/chem3/pid3.i/20110124-1.b/0124a019.d/0124a019.cdf



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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a020.d ARI ID: SF50D
Data file 2: /chem3/pid3.i/20110124-1.b/0124a020.d Client ID: MW04-012011
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 14:32
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.356	0.004	13564	160897	194.6	TFT (Surr)
14.228	0.002	6381	68361	193.9	BB (Surr)

*double
Surr*

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	35109	0.039
8015B 2MP-TMB (3.72 to 15.35)	1702573	4950	0.003
AK101 nC6-nC10 (4.22 to 13.96)	1177929	3810	0.003
NWTPHG Tol-Nap (9.09 to 18.35)	942411	43860	0.047

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
7.355	0.004	39052	192.4	TFT (Surr)
14.227	0.002	64132	191.4	BB (Surr)

*double
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/20110124-2.b/0124a020.d

Date : 24-JAN-2011 14:32

Client ID: HM04-012011

Sample Info: SF50D

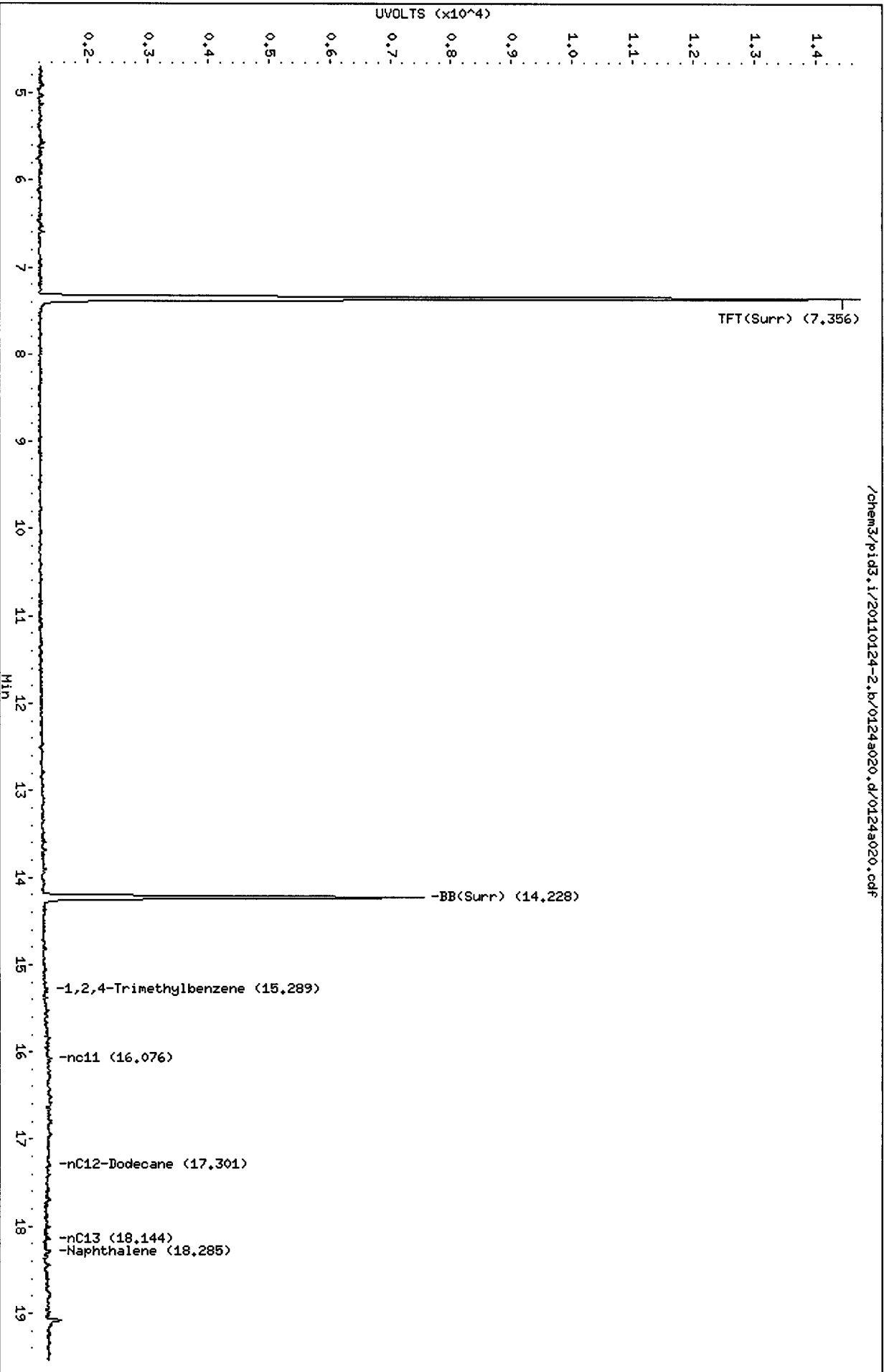
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

/chem3/pid3.i/20110124-2.b/0124a020.d/0124a020.cdf



00:57:14:09

Data File: /chem3/pid3.i/20110124-1.b/0124a020.d
Date : 24-JAN-2011 14:32
Client ID: MM04-012011
Sample Info: SF50D

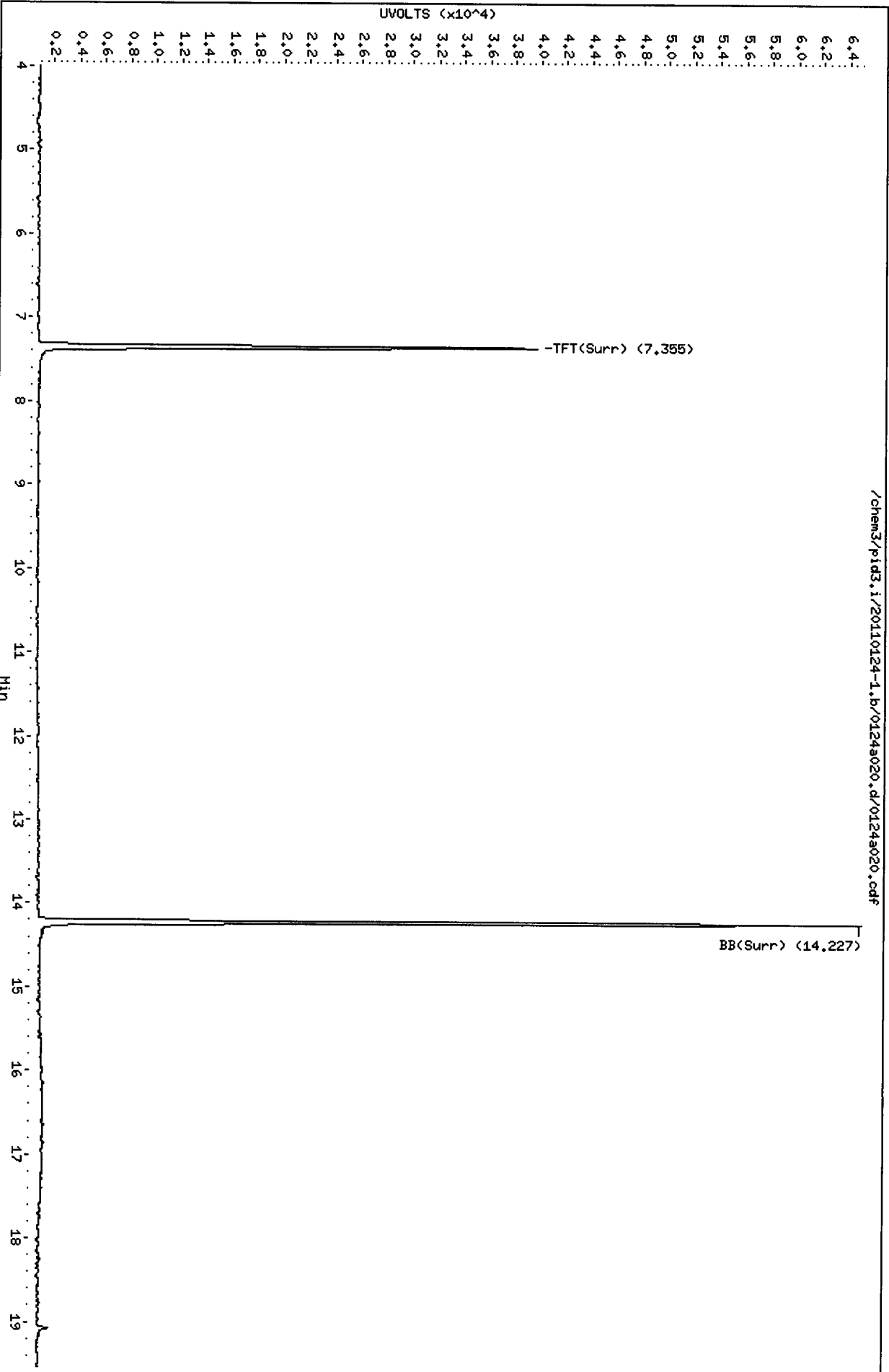
Instrument: pid3.i

Page 1

Column phase: RTX 502-2 PID

Operator: MH
Column diameter: 0.18

/chem3/pid3.i/20110124-1.b/0124a020.d/0124a020.cdf



10:19:09 : ON L5

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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a021.d ARI ID: SF50E
Data file 2: /chem3/pid3.i/20110124-1.b/0124a021.d Client ID: MW17-012011
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 14:59
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.356	0.003	6796	79776	97.5	TFT (Surr)
14.228	0.002	3211	35115	97.6	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	30480	0.034
8015B 2MP-TMB (3.72 to 15.35)	1702573	2466	0.001
AK101 nC6-nC10 (4.22 to 13.96)	1177929	2465	0.002
NWTPHG Tol-Nap (9.09 to 18.35)	942411	34459	0.037

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
7.355	0.003	19333	95.2	TFT (Surr)
14.227	0.002	31933	95.3	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/20110124-1.b/0124a021.d
Date : 24-JAN-2011 14:59
Client ID: HM17-012011
Sample Info: SF50E

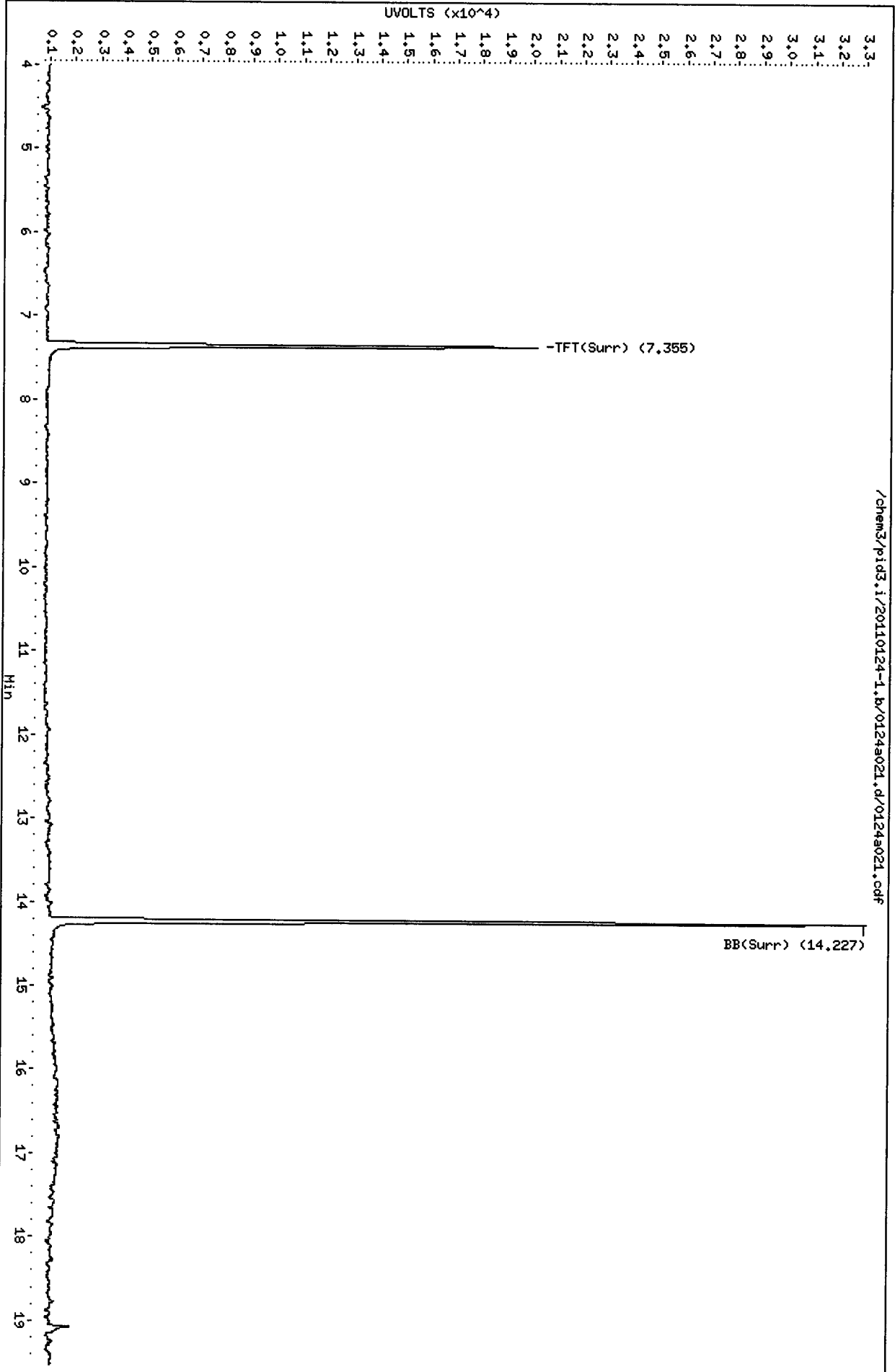
Instrument: pid3.i

Page 1

Column phase: RTX 502-2 PID

Operator: MH
Column diameter: 0.18

/chem3/pid3.i/20110124-1.b/0124a021.d/0124a021.cdf



12 05 11 09 : 02 15

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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a022.d ARI ID: SF50F
Data file 2: /chem3/pid3.i/20110124-1.b/0124a022.d Client ID: MW03-012011
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 15:25
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.354	0.001	6861	81599	98.4	TFT(Surr)
14.227	0.001	3244	36124	98.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	65551	0.072
8015B 2MP-TMB (3.72 to 15.35)	1702573	22648	0.013
AK101 nC6-nC10 (4.22 to 13.96)	1177929	16741	0.014
NWTPHG Tol-Nap (9.09 to 18.35)	942411	73136	0.078

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
7.353	0.001	19534	96.2	TFT(Surr)
14.226	0.001	32551	97.1	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/20110124-2.b/0124a022.d

Date: 24-JAN-2011 15:25

Client ID: MK03-012011

Sample Info: SF50F

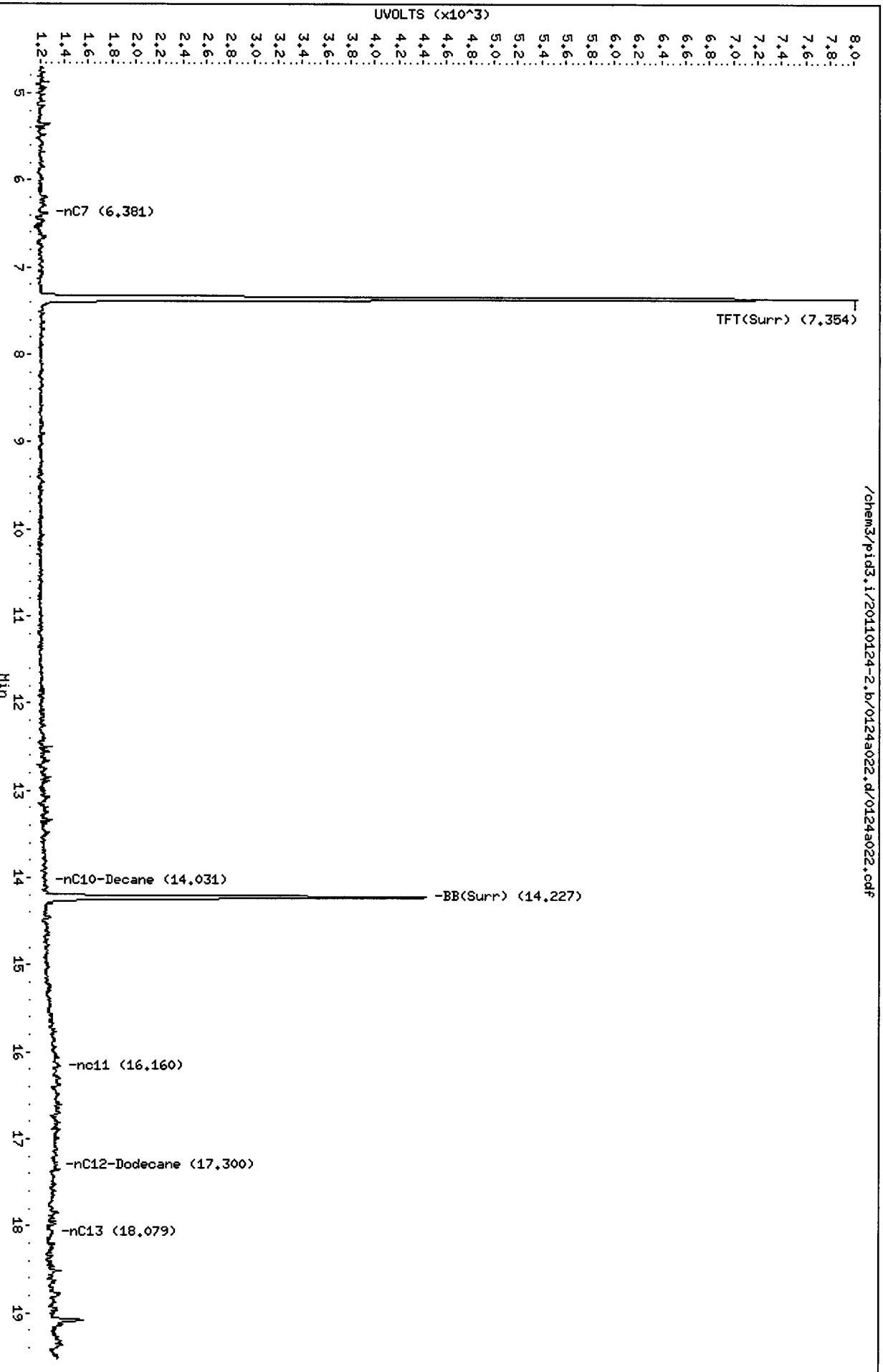
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

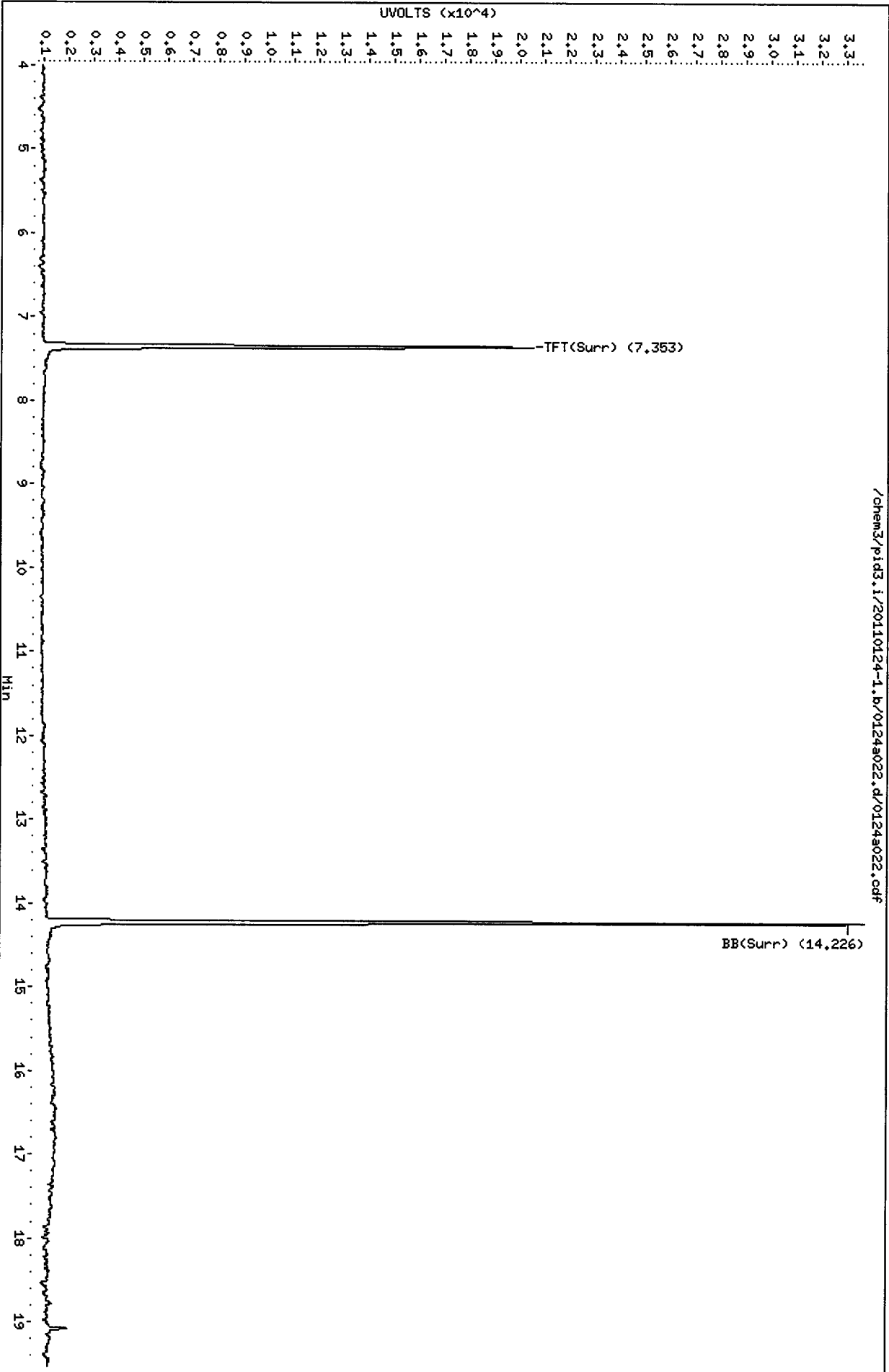
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Data File: /chem3/pid3.i/20110124-1.b/0124a022.d
Date: 24-JAN-2011 15:25
Client ID: HM03-012011
Sample Info: SF50F

Column phase: RTX 502-2 PID

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



/chem3/pid3.i/20110124-1.b/0124a022.d/0124a022.cdf

02 15 09 11 19

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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a024.d ARI ID: BCAL 3
Data file 2: /chem3/pid3.i/20110124-1.b/0124a024.d Client ID:
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 16:17
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.356	0.003	6761	80958	97.0	TFT (Surr)
14.227	0.001	3281	35402	99.7	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	560387	0.619
8015B 2MP-TMB (3.72 to 15.35)	1702573	518506	0.305
AK101 nC6-nC10 (4.22 to 13.96)	1177929	481035	0.408
NWTPHG Tol-Nap (9.09 to 18.35)	942411	564546	0.599

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
7.355	0.003	19226	94.7	TFT (Surr)
14.226	0.001	32714	97.6	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
6.509	0.003	33466	24.11	Benzene
9.197	0.003	30575	23.52	Toluene
11.794	0.002	27917	24.75	Ethylbenzene
11.937	0.002	60383	48.91	M/P-Xylene
12.733	0.002	26450	23.72	O-Xylene
4.089	0.002	11305	24.63	MTBE

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

Data File: /chem3/pid3.i/20110124-2.b/0124a024.d

Date: 24-JAN-2011 16:17

Client ID:

Sample Info: BCAL 3

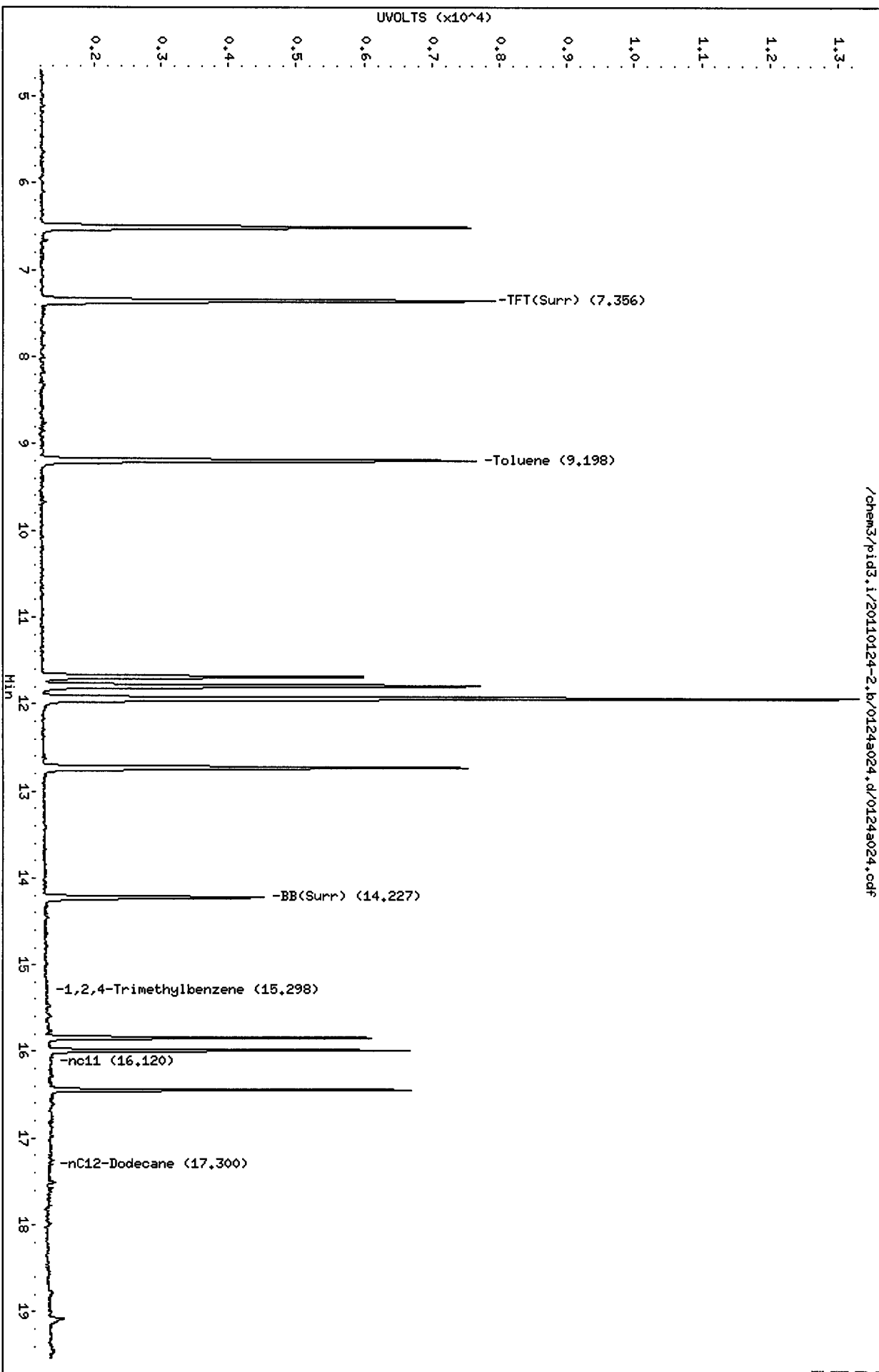
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

/chem3/pid3.i/20110124-2.b/0124a024.d/0124a024.cdf



Data File: /chem3/pid3.i/20110124-1.b/0124a024.d
Date: 24-JAN-2011 16:17
Client ID:
Sample Info: BCAL 3

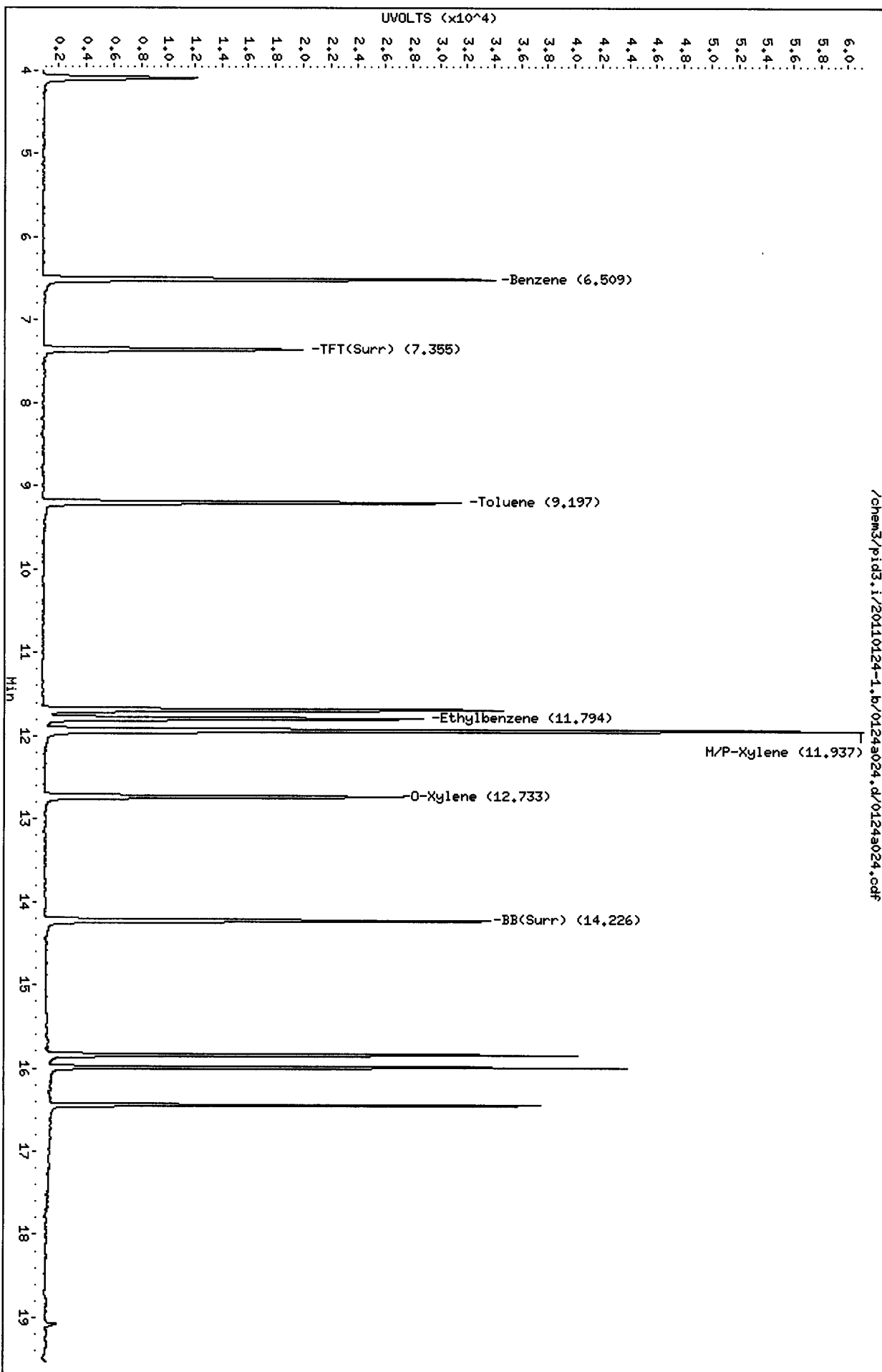
Column phase: RTX 502-2 PID

/chem3/pid3.i/20110124-1.b/0124a024.d/0124a024.cdf

Instrument: pid3.i

Operator: MH
Column diameter: 0.18

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SF26: 01440

MH
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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a025.d ARI ID: GCAL 3
Data file 2: /chem3/pid3.i/20110124-1.b/0124a025.d Client ID:
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 16:44
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.356	0.003	7744	95676	111.1	TFT(Surr)
14.227	0.000	3507	66316	106.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	2059428	2.274 M
8015B 2MP-TMB (3.72 to 15.35)	1702573	3973390	2.334 M
AK101 nC6-nC10 (4.22 to 13.96)	1177929	2706776	2.298 M
NWTPHG Tol-Nap (9.09 to 18.35)	942411	2187214	2.321 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
7.355	0.003	20346	100.2	TFT(Surr)
14.226	0.001	34130	101.9	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
6.511	0.005	8838	6.37	Benzene
9.197	0.003	92746	71.36	Toluene
11.794	0.002	26349	23.36	Ethylbenzene
11.941	0.005	102151	82.74	M/P-Xylene
12.734	0.002	37716	33.82	O-Xylene
4.090	0.003	109845	239.31	MTBE

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

Data File: /chem3/pid3.i/20110124-2.b/0124a025.d
Date: 24-JAN-2011 16:44

Client ID:

Sample Info: GCAL 3

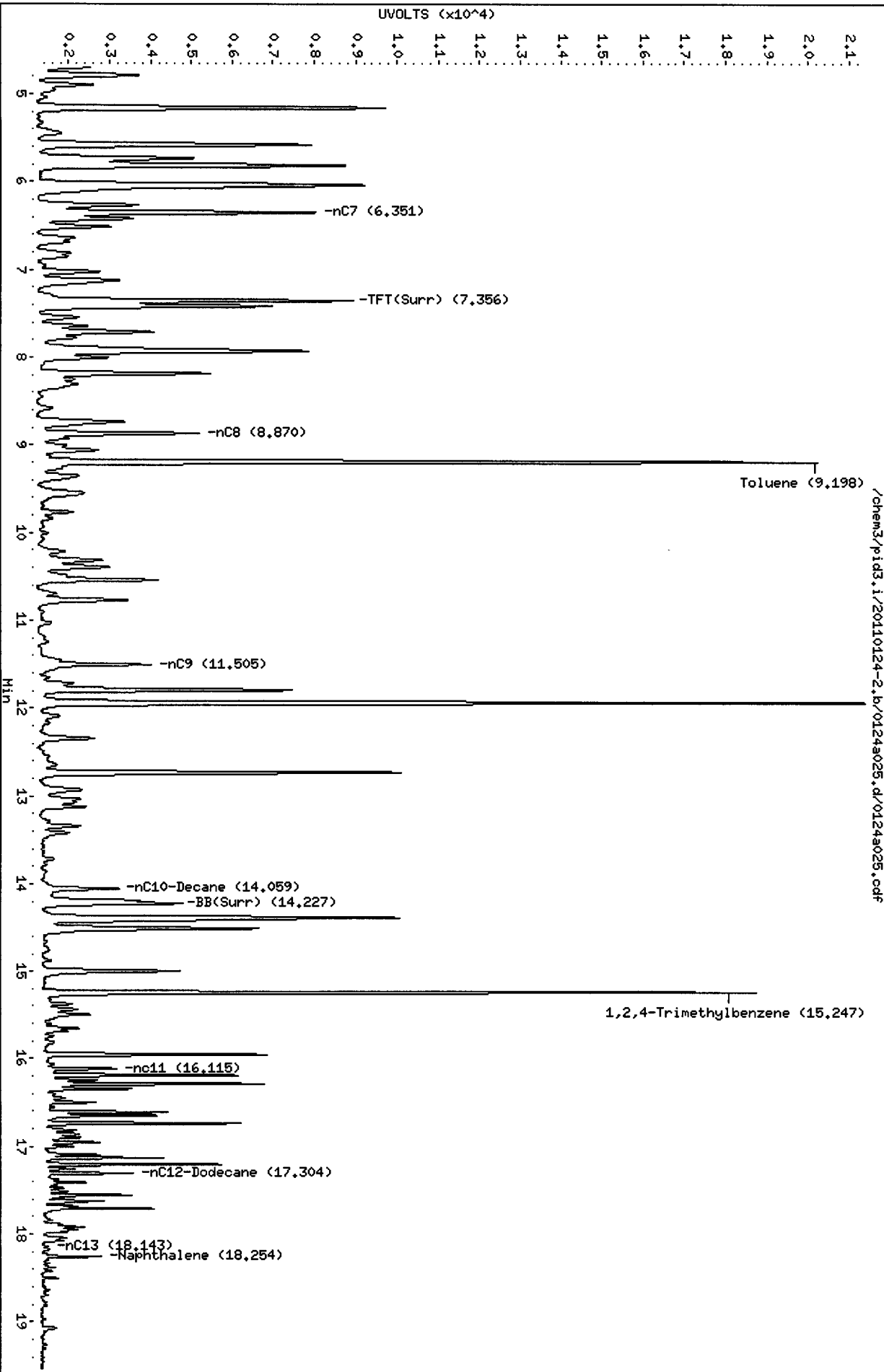
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

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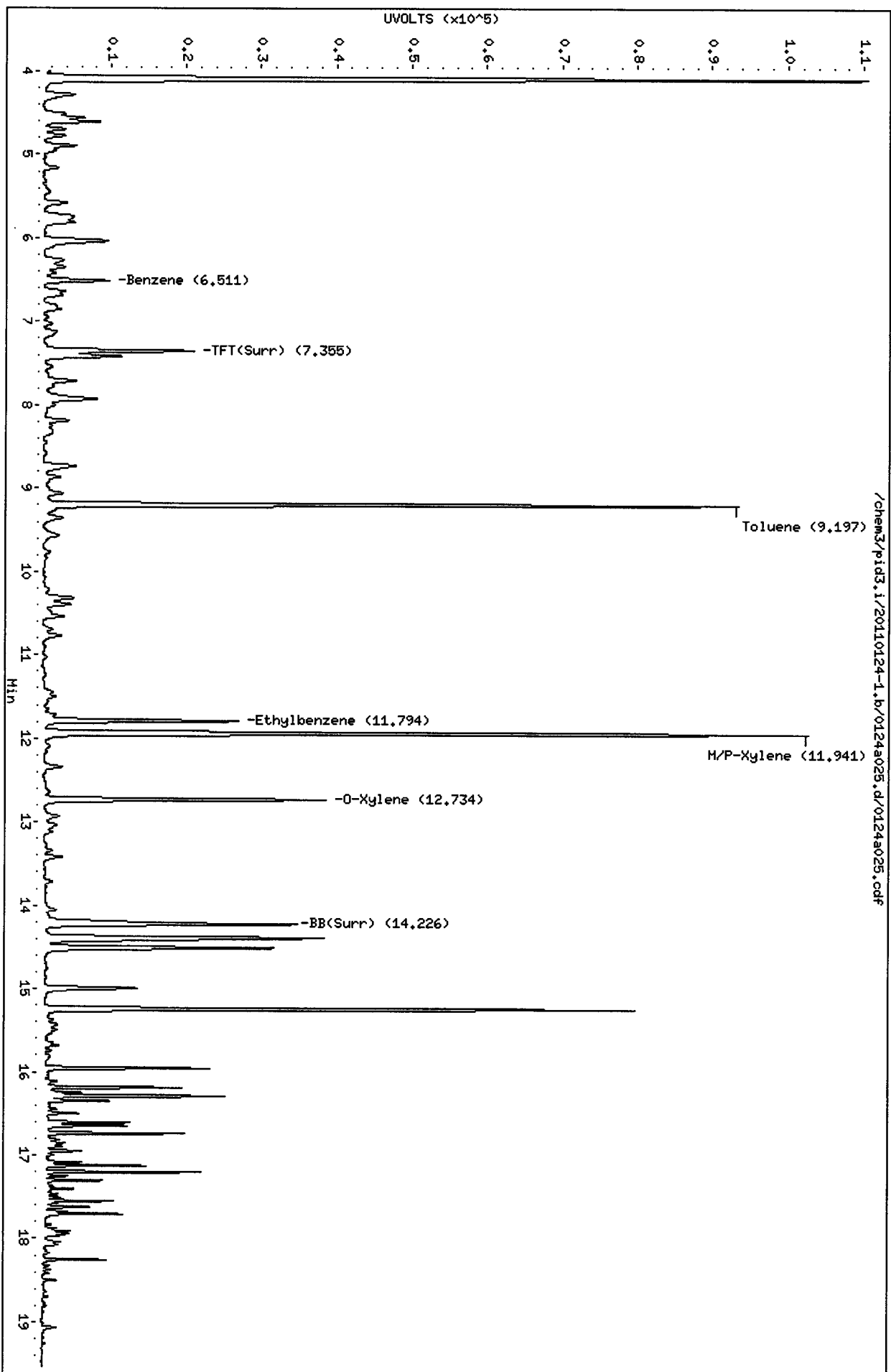


SF26:01445

Data File: /chem3/pid3.i/20110124-1.b/0124a025.d
Date: 24-JAN-2011 16:44
Client ID:
Sample Info: GCAL 3

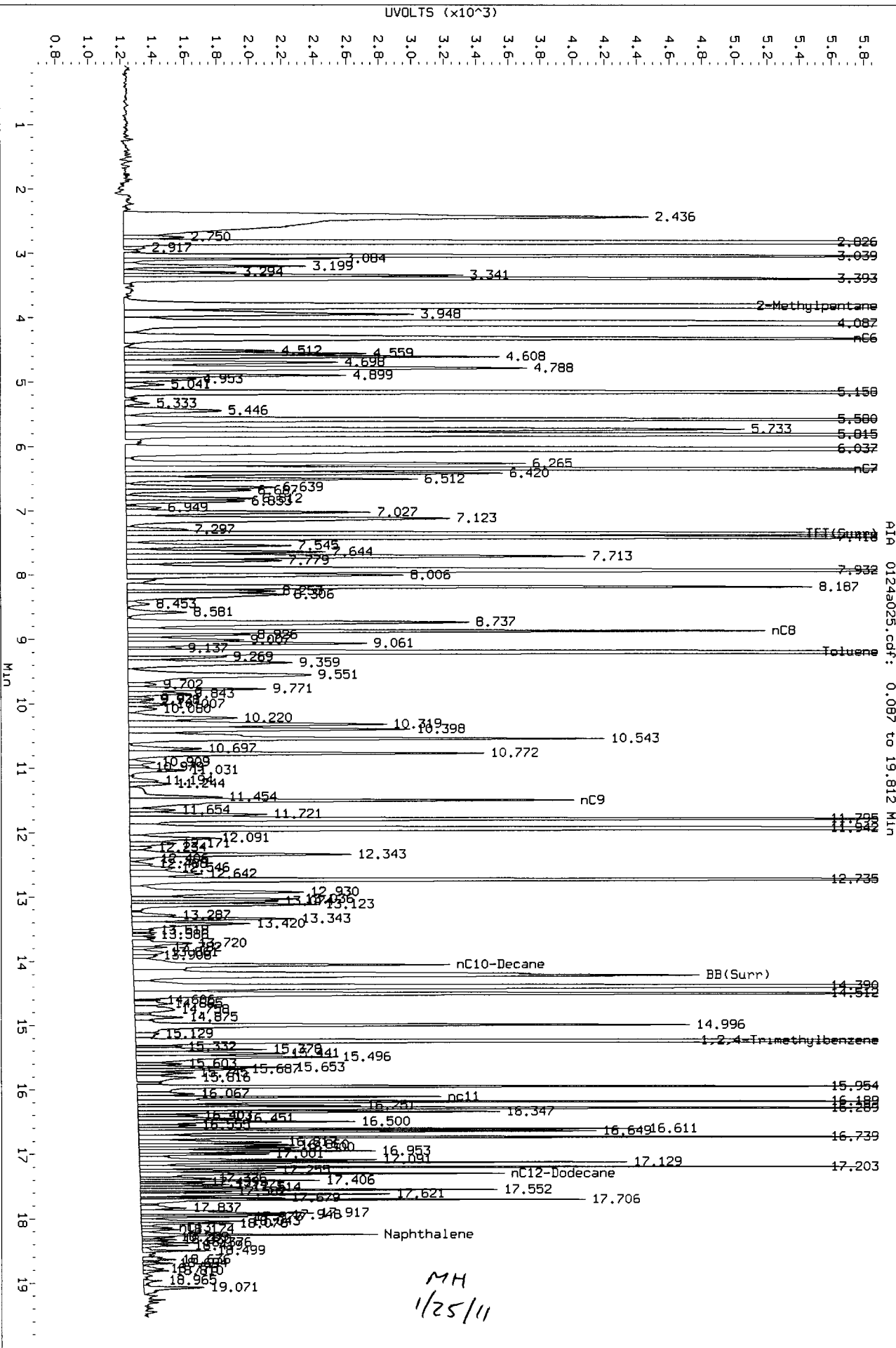
Column phase: RTX 502-2 PID

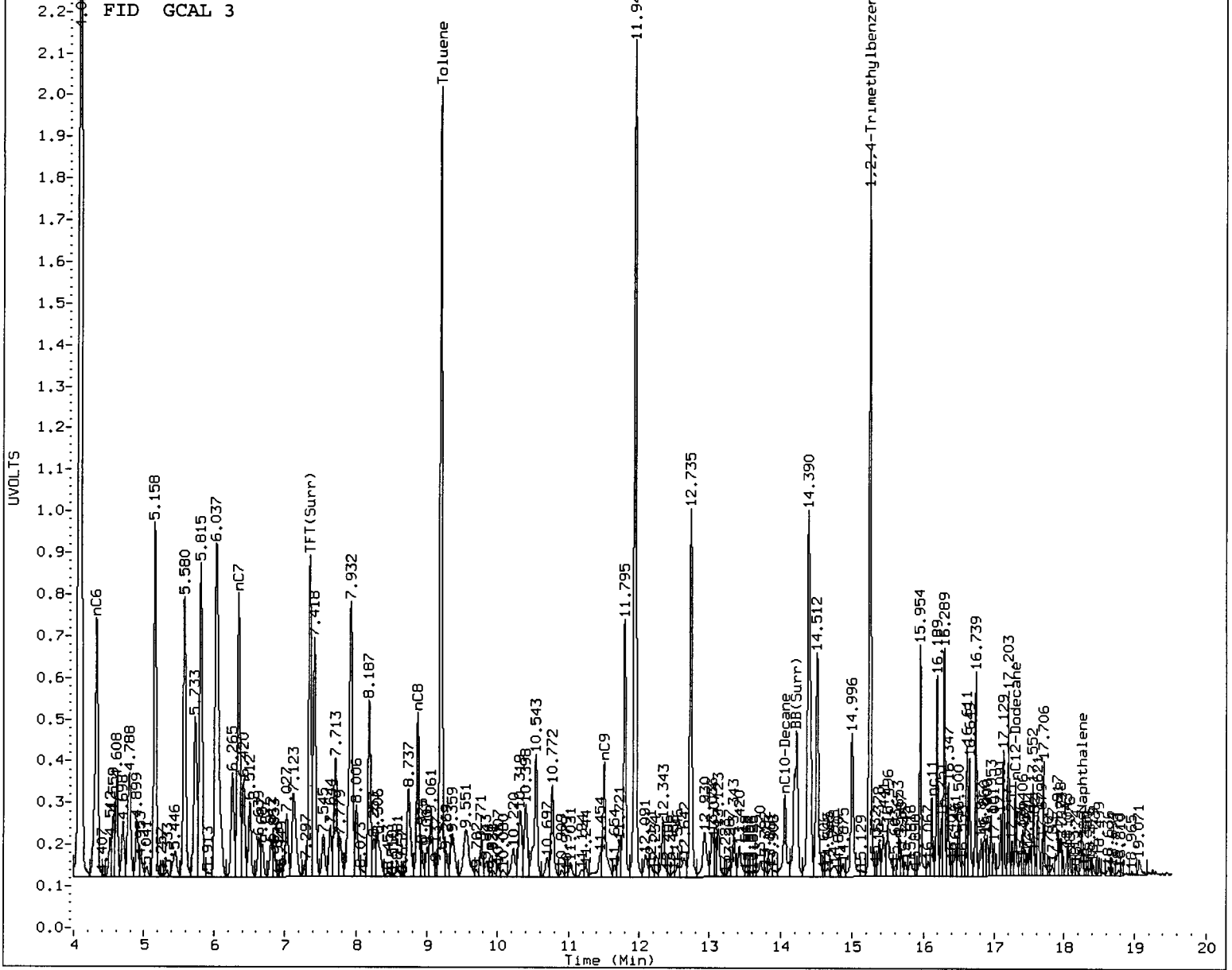
Instrument: pid3.i
Operator: HH
Column diameter: 0.18



/chem3/pid3.i/20110124-1.b/0124a025.d/0124a025.cdf

Data File: /chem3/p1d3.1/20110124-2.r/0124a025.d/0124a025.cdf
 Injection Date: 24-JAN-2011 15:44
 Instrument: p1d3.1
 Client Sample ID:





MANUAL INTEGRATION

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

Analyst: MH

Date: 1/25/11

MH
1/25/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a026.d ARI ID: SF76A
Data file 2: /chem3/pid3.i/20110124-1.b/0124a026.d Client ID:
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 17:10
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.355	0.003	6833	81925	98.0	TFT (Surr)
14.227	0.001	3258	35496	99.0	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	8469	0.009
8015B 2MP-TMB (3.72 to 15.35)	1702573	10576	0.006
AK101 nC6-nC10 (4.22 to 13.96)	1177929	3593	0.003
NWTPHG Tol-Nap (9.09 to 18.35)	942411	9863	0.010

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
7.354	0.003	19450	95.8	TFT (Surr)
14.226	0.001	32255	96.3	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/20110124-2.b/0124a026.d

Date : 24-JAN-2011 17:10

Client ID:

Sample Info: SF76A

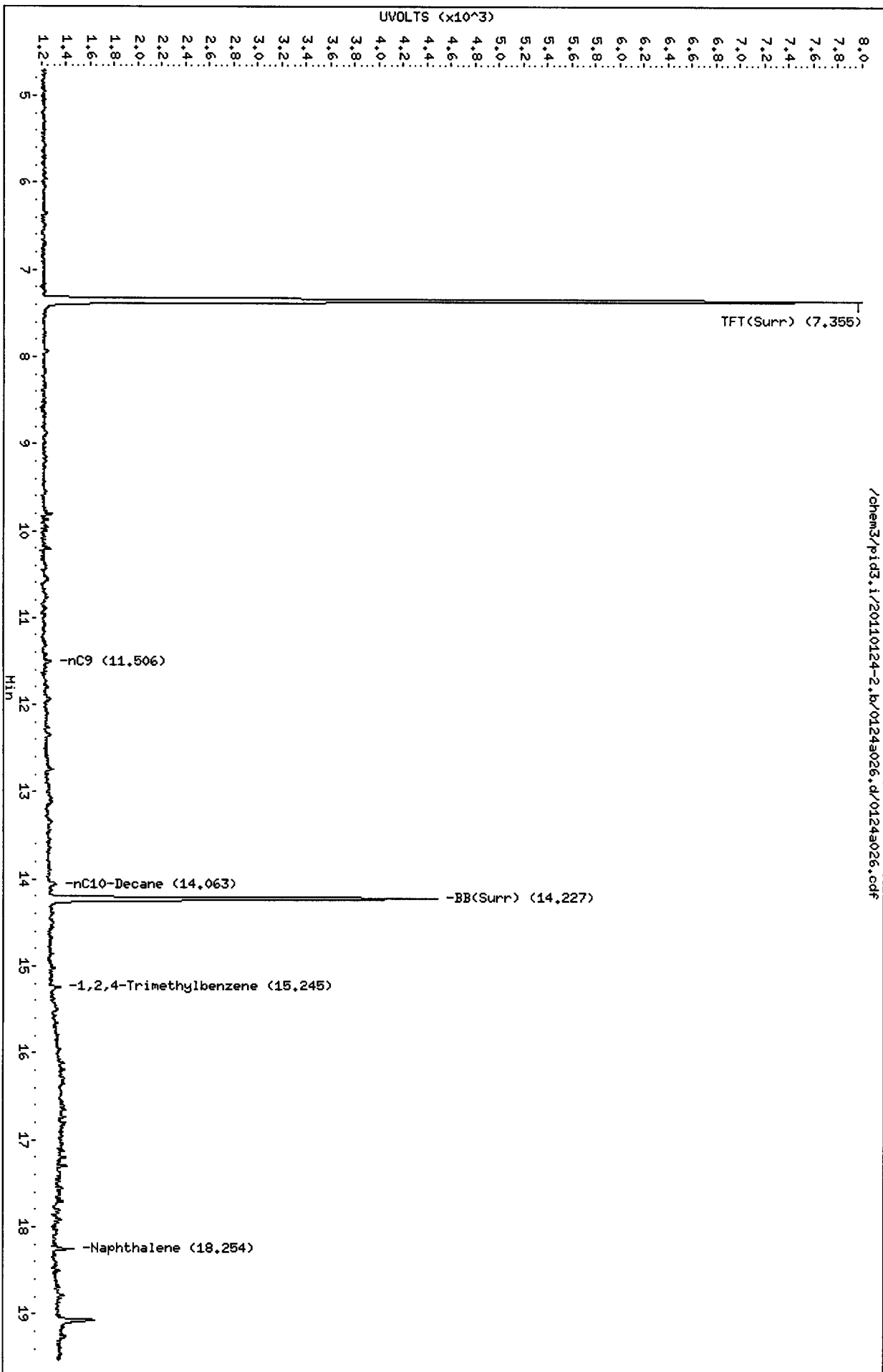
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

Page 1



/chem3/pid3.i/20110124-2.b/0124a026.d/0124a026.cdf

02 15 09 14 19

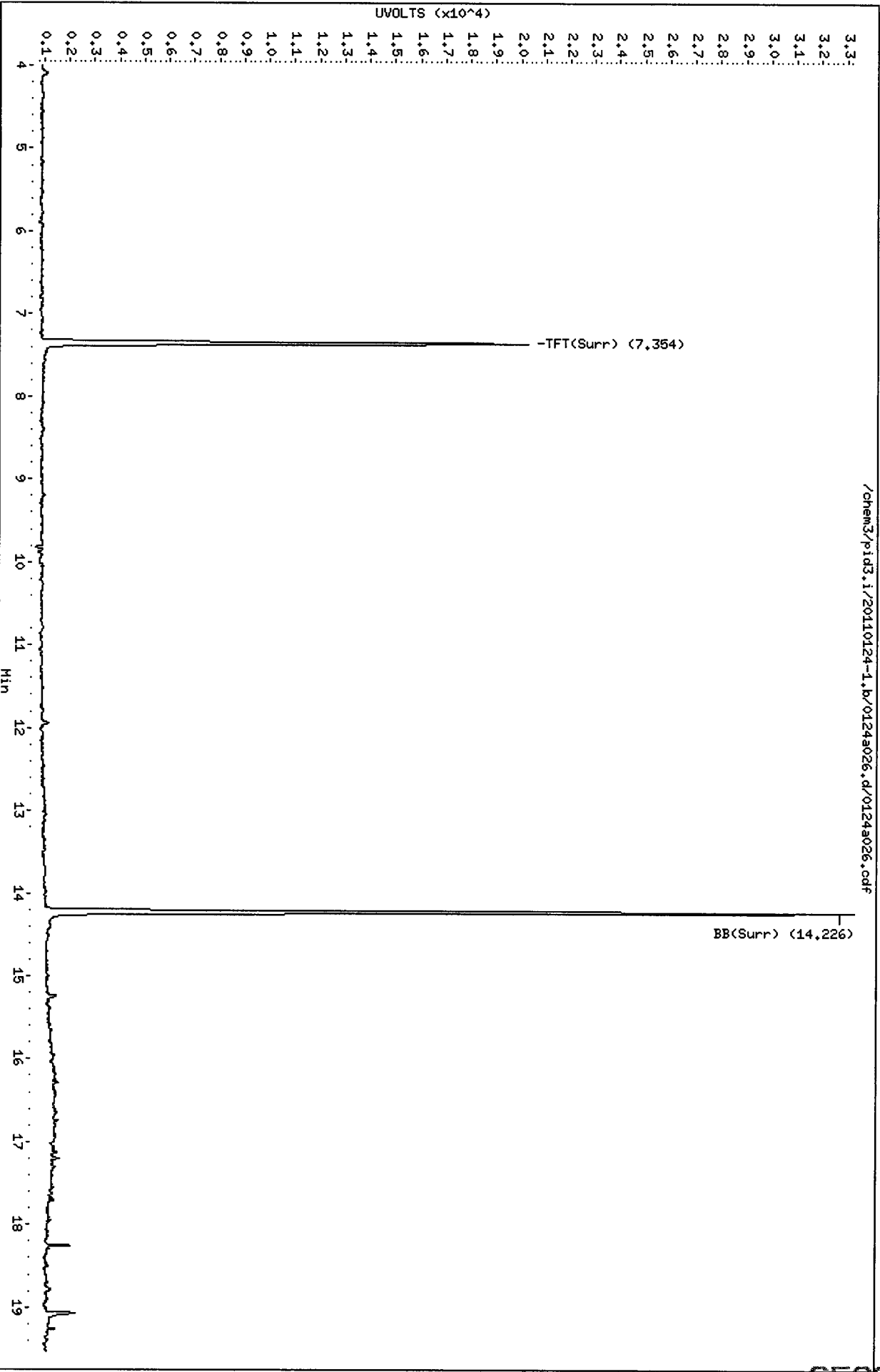
Data File: /chem3/pid3.i/20110124-1.b/0124a026.d
Date: 24-JAN-2011 17:10
Client ID:
Sample Info: SF766

Instrument: pid3.i

Column phase: RTX 502-2 PID

Operator: MH
Column diameter: 0.18

/chem3/pid3.i/20110124-1.b/0124a026.d/0124a026.cdf



12 15 19 : 02 15

1/25/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a027.d ARI ID: SF76B
Data file 2: /chem3/pid3.i/20110124-1.b/0124a027.d Client ID:
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 17:36
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.357	0.004	6727	79500	96.5	TFT(Surr)
14.228	0.001	3186	33423	96.8	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	2222	0.002
8015B 2MP-TMB (3.72 to 15.35)	1702573	1096	0.001
AK101 nC6-nC10 (4.22 to 13.96)	1177929	1096	0.001
NWTPHG Tol-Nap (9.09 to 18.35)	942411	2222	0.002

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
7.356	0.004	18902	93.1	TFT(Surr)
14.226	0.002	31642	94.4	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/20110124-2.b/0124a027.d

Date : 24-JAN-2011 17:36

Client ID:

Sample Info: SF76B

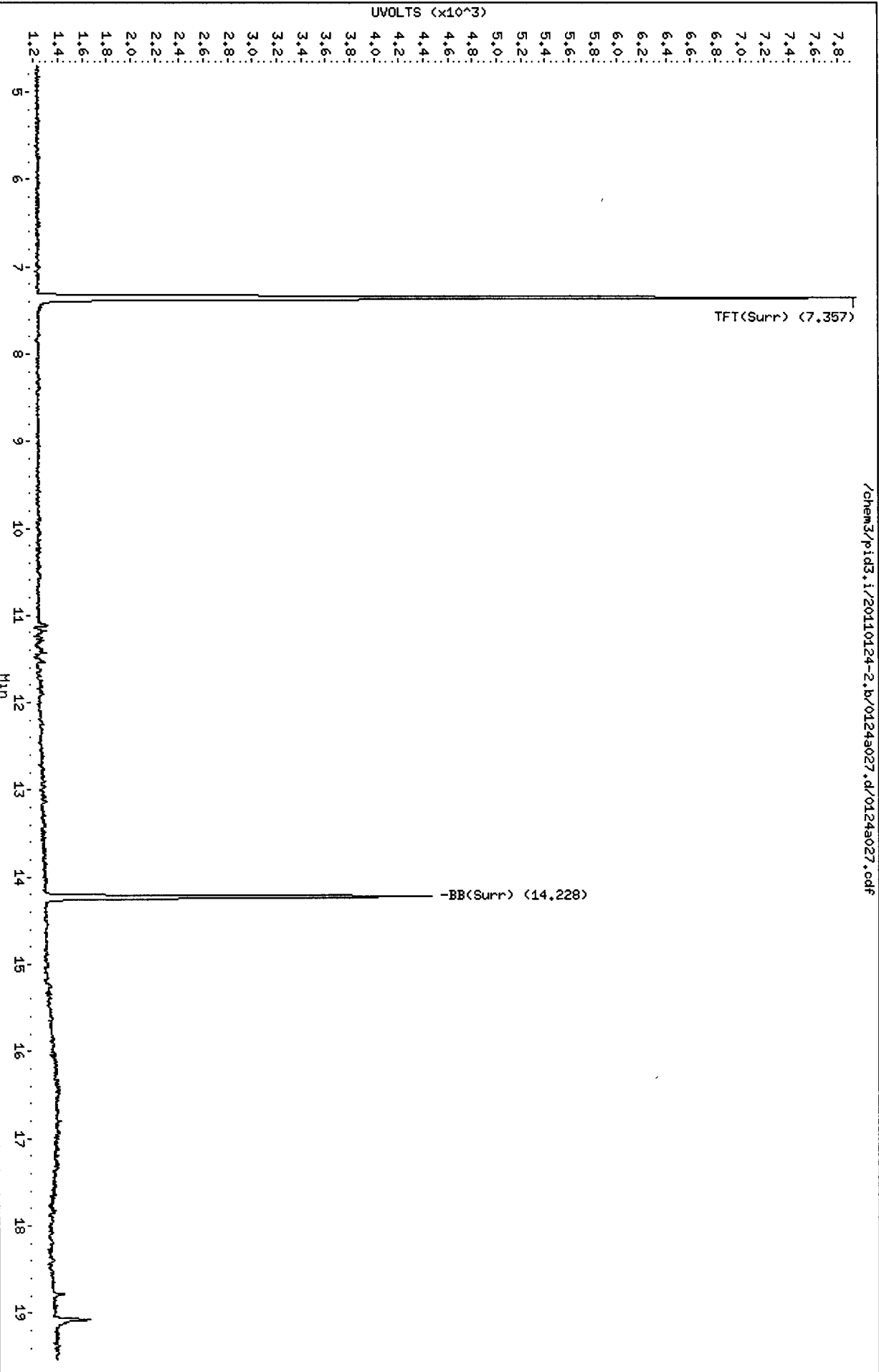
Instrument: pid3.i

Operator: HH

Column diameter: 0.18

Column phase: RTX 502-2 FID

/chem3/pid3.i/20110124-2.b/0124a027.d/0124a027.cdf



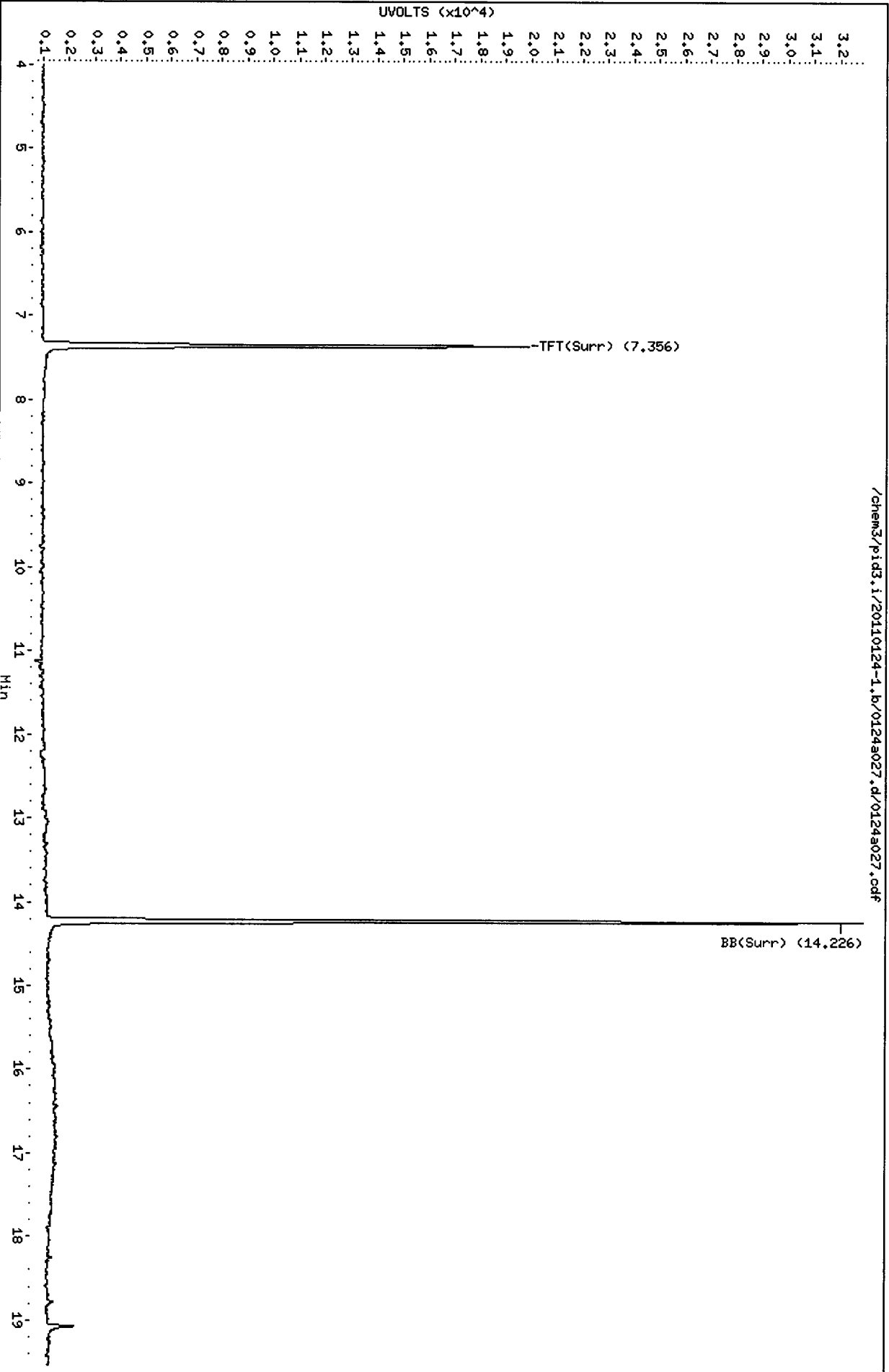
Data File: /chem3/pid3.i/20110124-1.b/0124a027.d
Date : 24-JAN-2011 17:36
Client ID:
Sample Info: SF76B

Instrument: pid3.i

Column phase: RTX 502-2 PID

Operator: HH
Column diameter: 0.18

/chem3/pid3.i/20110124-1.b/0124a027.d/0124a027.cdf



121410 : 0126

MH
1/25/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a028.d ARI ID: SF76C
Data file 2: /chem3/pid3.i/20110124-1.b/0124a028.d Client ID:
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 18:02
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.357	0.005	6705	79680	96.2	TFT(Surr)
14.228	0.002	3212	34176	97.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	1	0.000
8015B 2MP-TMB (3.72 to 15.35)	1702573	1	0.000
AK101 nC6-nC10 (4.22 to 13.96)	1177929	0	0.000
NWTPHG Tol-Nap (9.09 to 18.35)	942411	1	0.000

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
7.356	0.005	18807	92.6	TFT(Surr)
14.227	0.002	31583	94.3	BB(Surr)

SW8021 (PID)

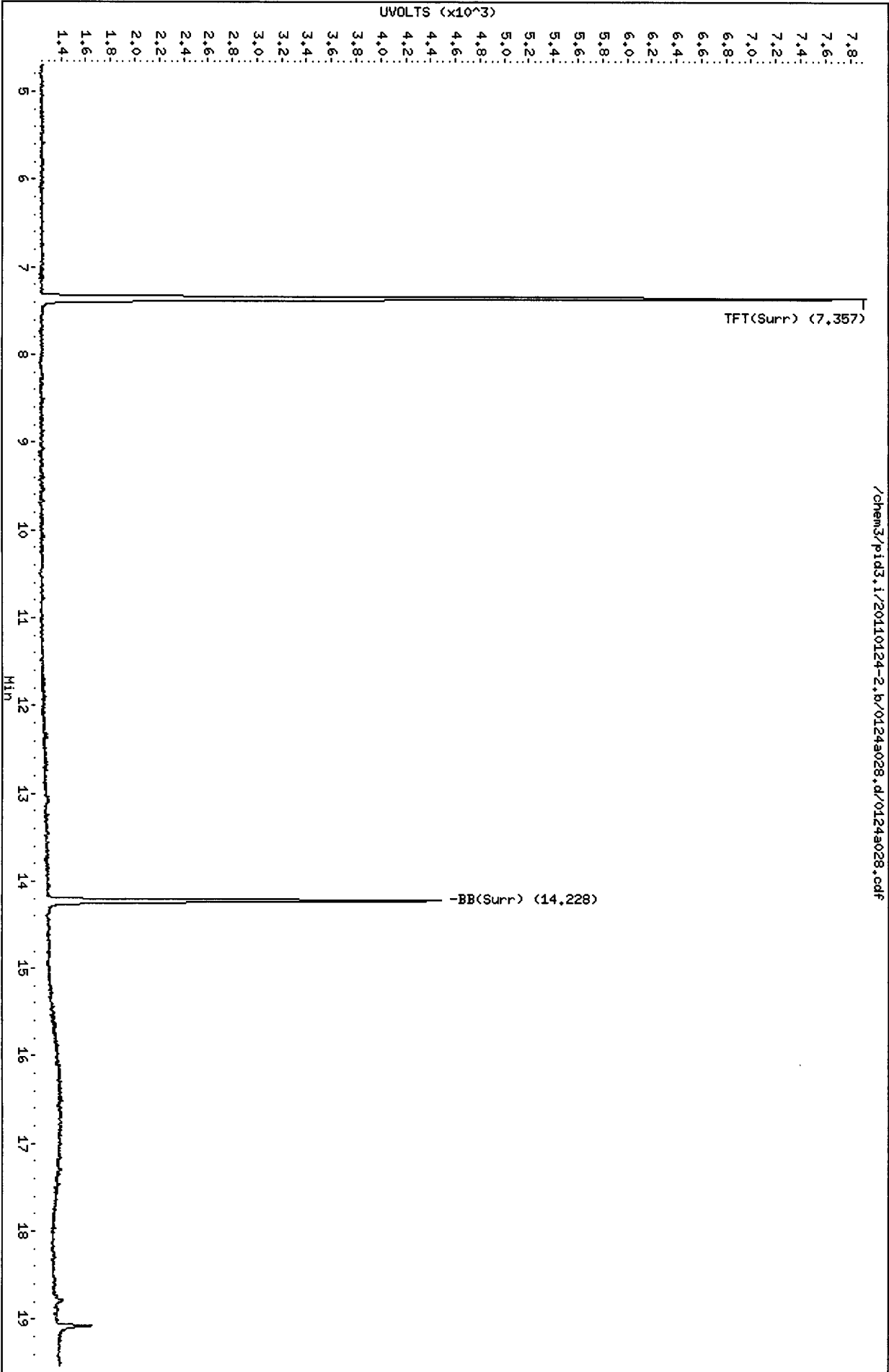
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

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

Data File: /chems3/pid3.i/20110124-2.b/0124a028.d
Date : 24-JAN-2011 18:02
Client ID:
Sample Info: SF76C

Column phase: RTX 502-2 FID

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



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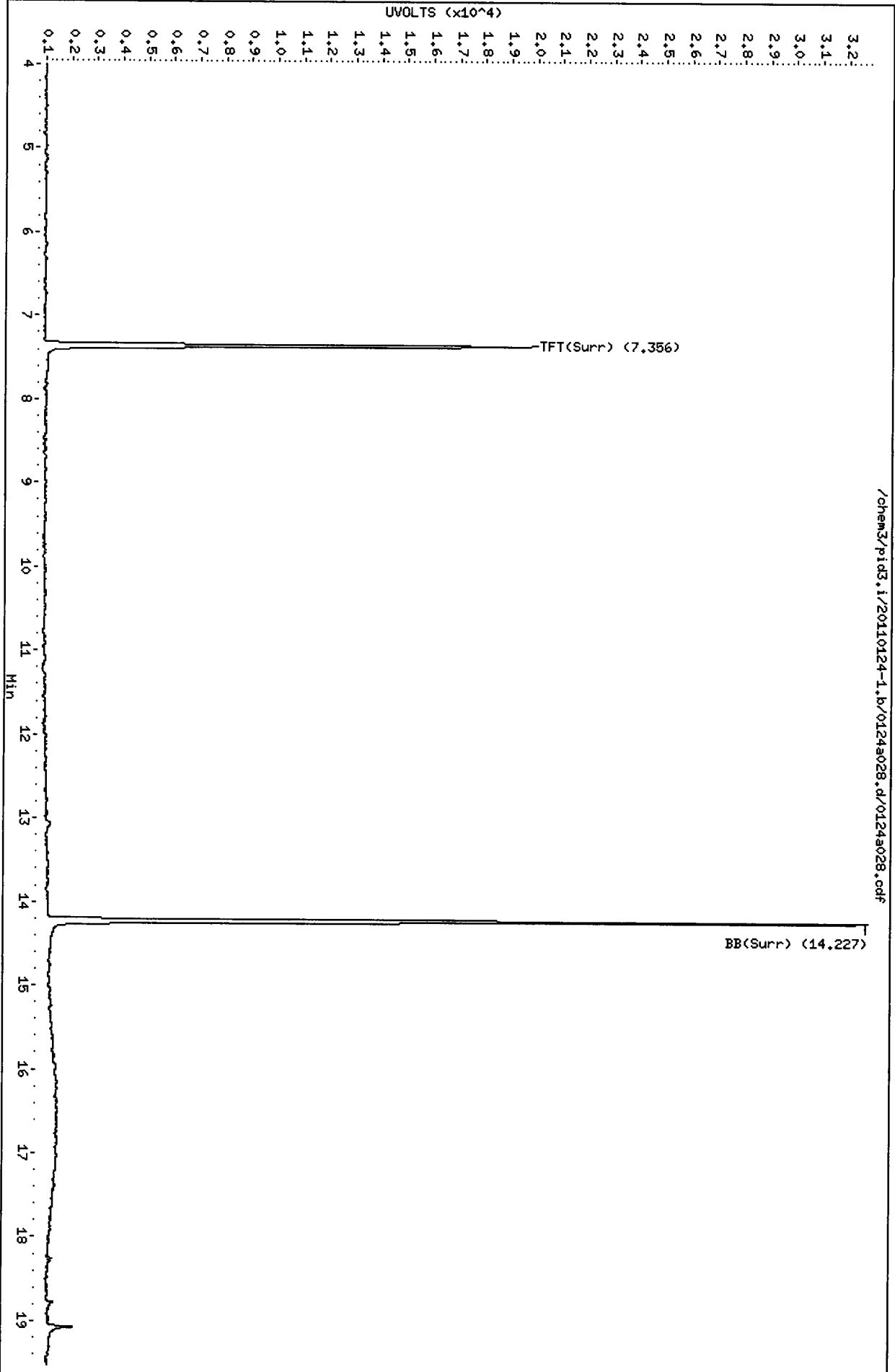
Data File: /chem3/pid3.i/20110124-1.b/0124a028.d
Date: 24-JAN-2011 18:02
Client ID:
Sample Info: SF76C

Instrument: pid3.i

Column phase: RTX 502-2 PID

Operator: MH
Column diameter: 0.18

/chem3/pid3.i/20110124-1.b/0124a028.d/0124a028.cdf



121719 : 014515

MH
1/25/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a029.d ARI ID: SF76D
Data file 2: /chem3/pid3.i/20110124-1.b/0124a029.d Client ID:
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 18:28
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.356	0.004	6456	76571	92.6	TFT (Surr)
14.228	0.002	3104	32868	94.3	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	0	0.000
8015B 2MP-TMB (3.72 to 15.35)	1702573	0	0.000
AK101 nC6-nC10 (4.22 to 13.96)	1177929	0	0.000
NWTPHG Tol-Nap (9.09 to 18.35)	942411	0	0.000

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
7.355	0.004	17988	88.6	TFT (Surr)
14.227	0.002	30482	91.0	BB (Surr)

SW8021 (PID)

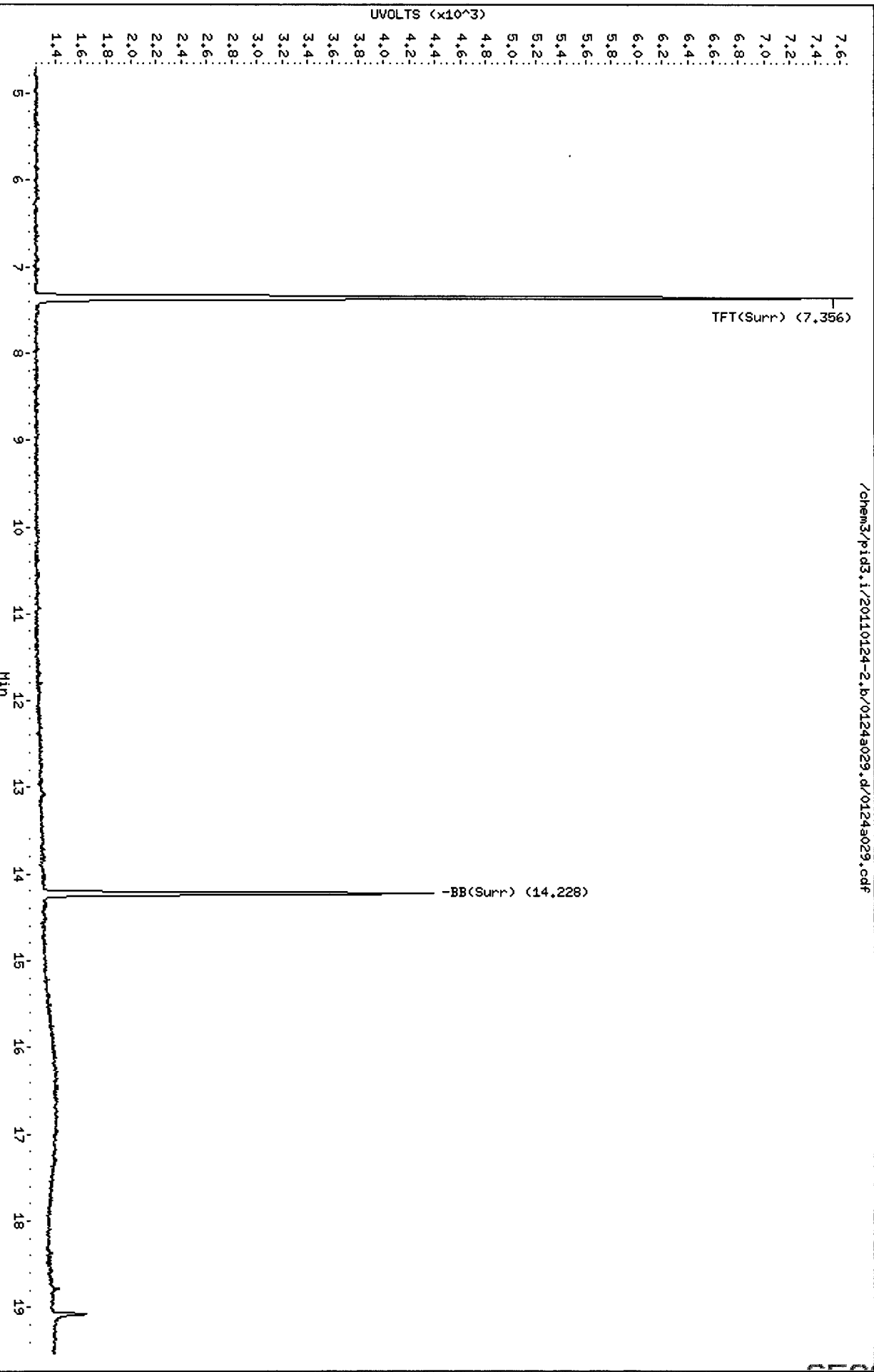
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

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

Data File: /chem3/pid3.i/20110124-2.b/0124s029.d
Date : 24-JAN-2011 18:28
Client ID:
Sample Info: SF76D

Column phase: RTX 502-2 FID

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

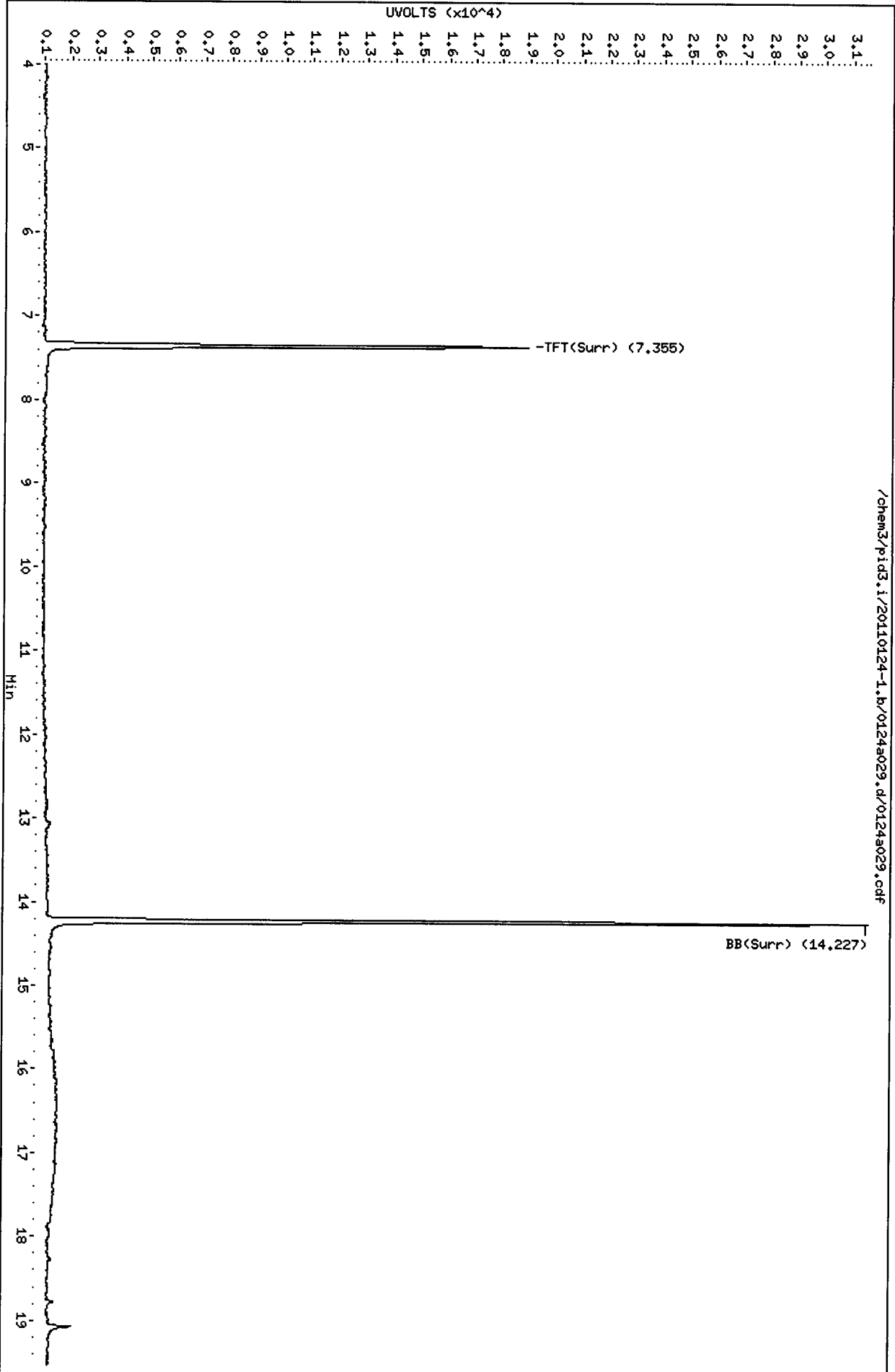


Data File: /chem3/pid3.i/20110124-1.b/0124a029.d
Date : 24-JAN-2011 18:28
Client ID:
Sample Info: SF76D

Instrument: pid3.i

Column phase: RTX 502-2 PID

Operator: MH
Column diameter: 0.18



/chem3/pid3.i/20110124-1.b/0124a029.d/0124a029.cdf

09 JAN 2011 18:28

MH
1/25/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a030.d ARI ID: SF76E
Data file 2: /chem3/pid3.i/20110124-1.b/0124a030.d Client ID:
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 18:55
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.355	0.003	6203	73952	89.0	TFT(Surr)
14.227	0.001	2973	31880	90.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	1	0.000
8015B 2MP-TMB (3.72 to 15.35)	1702573	1	0.000
AK101 nC6-nC10 (4.22 to 13.96)	1177929	0	0.000
NWTPHG Tol-Nap (9.09 to 18.35)	942411	1	0.000

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
7.355	0.003	17304	85.2	TFT(Surr)
14.226	0.001	29200	87.1	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

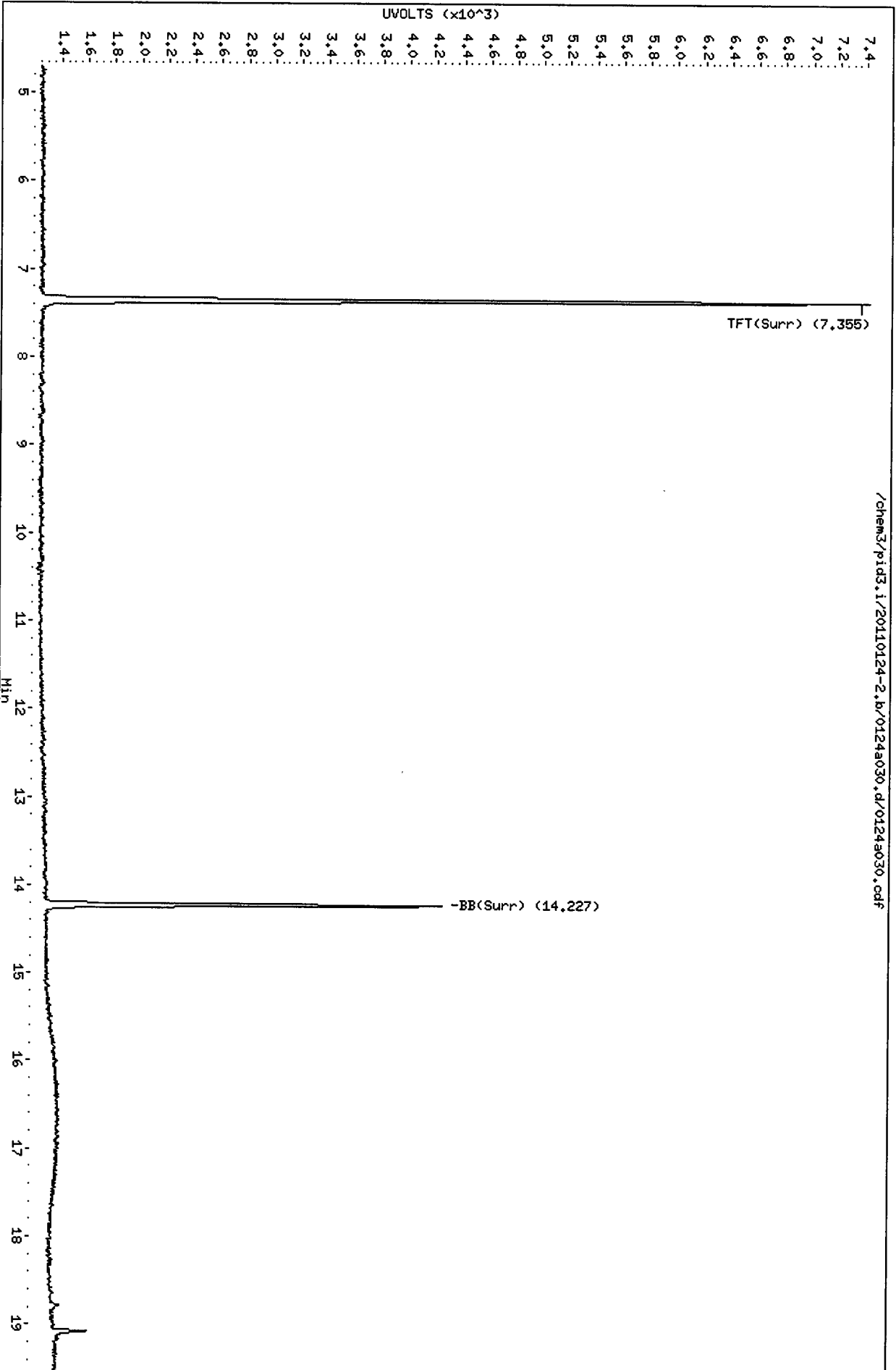
Data File: /chem3/pid3.i/20110124-2.b/0124a030.d
Date : 24-JAN-2011 18:55

Client ID:
Sample Info: SF76E

Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HH
Column diameter: 0.18



/chem3/pid3.i/20110124-2.b/0124a030.d/0124a030.cdf

19 18 17 16 15 14 13 12 11 10 9 8 7 6 5

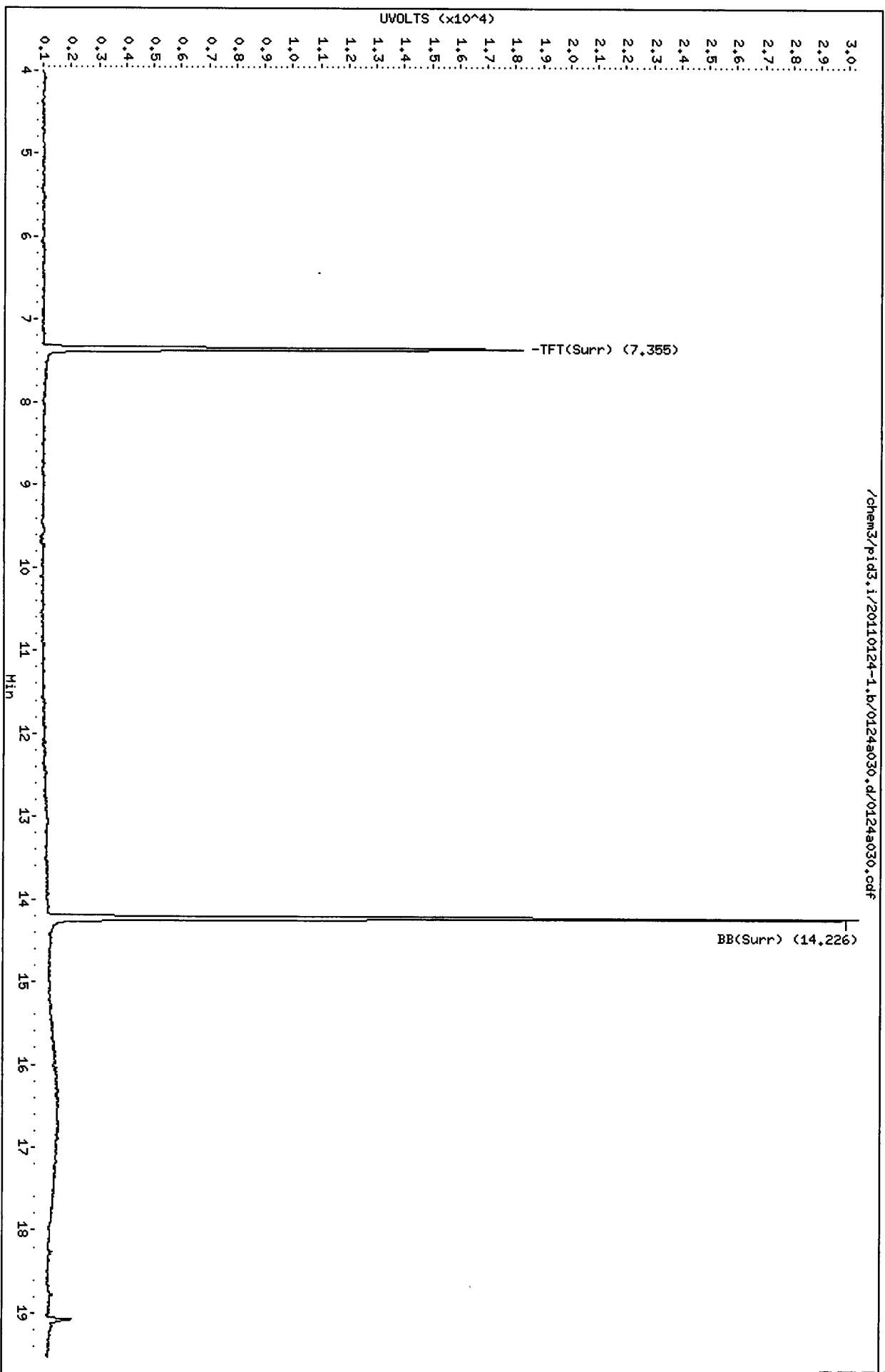
Data File: /chem3/pid3.i/20110124-1.b/0124a030.d
Date : 24-JAN-2011 18:55

Client ID:
Sample Info: SF76E

Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: MH
Column diameter: 0.18



00:00:00

MH
1/25/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a031.d ARI ID: SF76F
Data file 2: /chem3/pid3.i/20110124-1.b/0124a031.d Client ID:
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 19:21
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.356	0.003	6750	79551	96.8	TFT(Surr)
14.226	0.000	3271	35999	99.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	4816	0.005
8015B 2MP-TMB (3.72 to 15.35)	1702573	1138	0.001
AK101 nC6-nC10 (4.22 to 13.96)	1177929	1	0.000
NWTPHG Tol-Nap (9.09 to 18.35)	942411	4816	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
7.355	0.003	18773	92.5	TFT(Surr)
14.225	0.000	31842	95.0	BB(Surr)

SW8021 (PID)

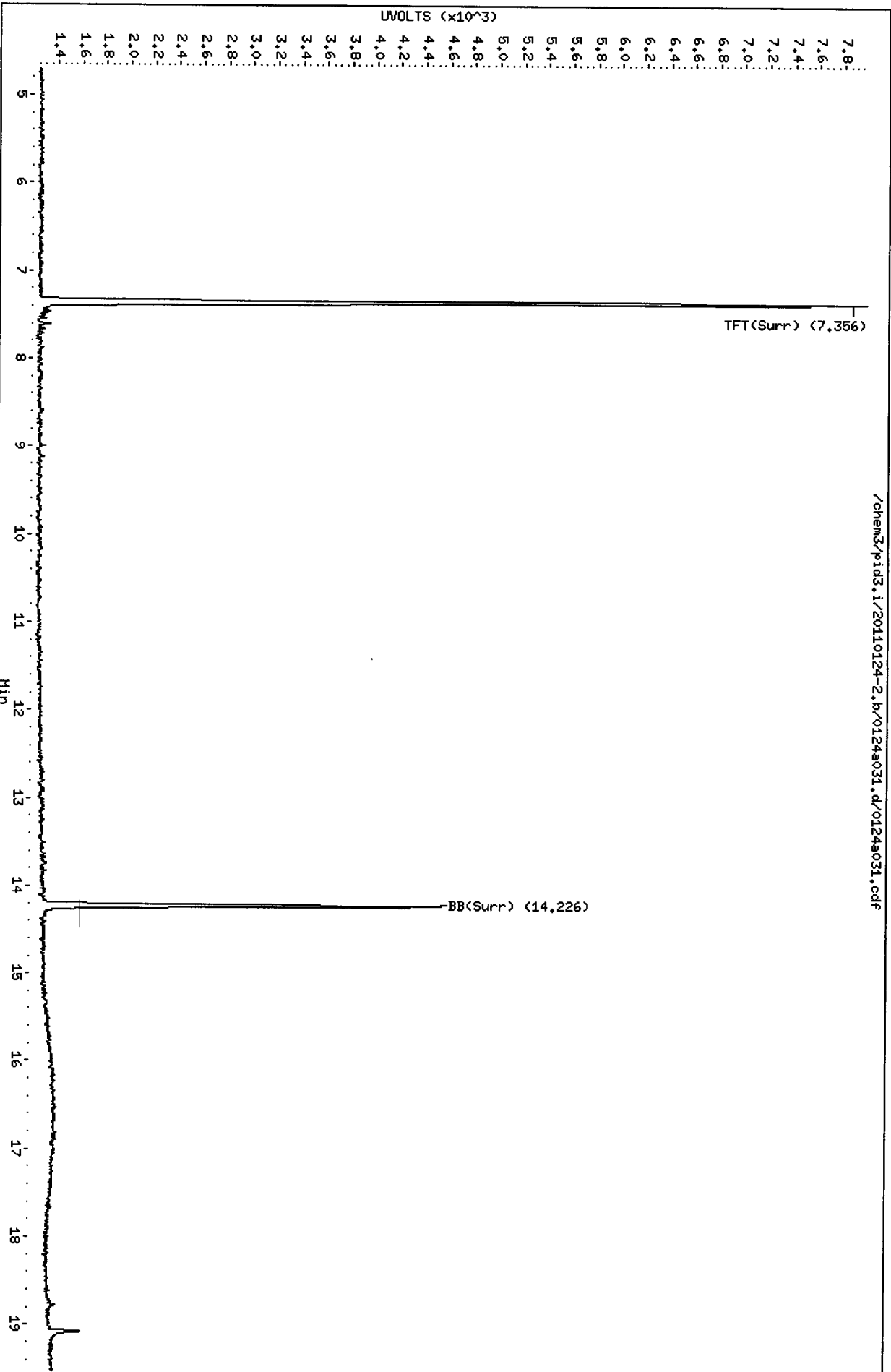
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

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

Data File: /chem3/pid3.i/20110124-2.b/0124a031.d
Date : 24-JAN-2011 19:21
Client ID:
Sample Info: SF76F

Column phase: RTX 502-2 FID

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



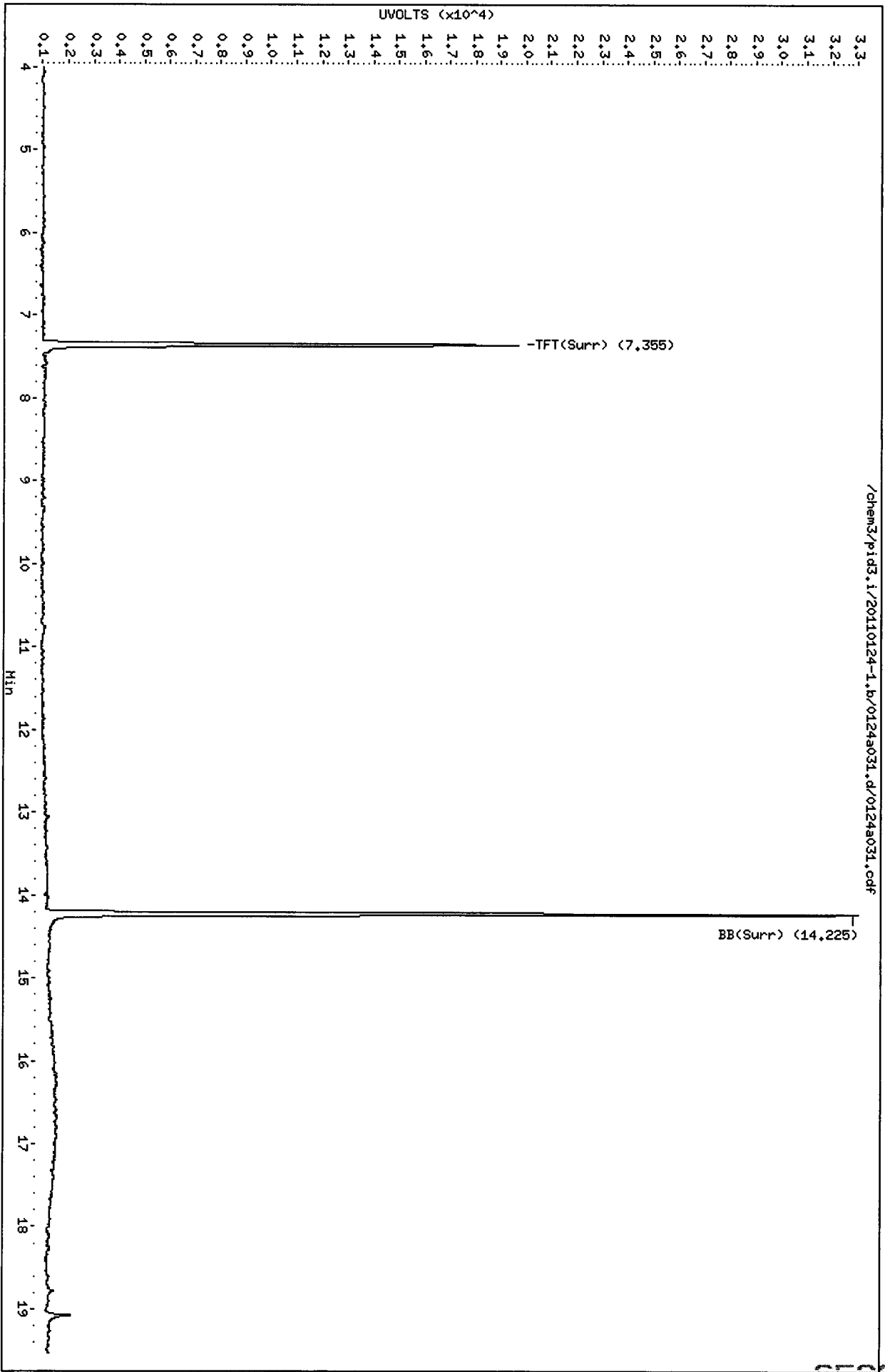
/chem3/pid3.i/20110124-2.b/0124a031.d/0124a031.cdf

09:41:26 SF76F

Data File: /chem3/pid3.i/20110124-1.b/0124a031.d
Date : 24-JAN-2011 19:21
Client ID:
Sample Info: SF76F

Column phase: RTX 502-2 PID

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



/chem3/pid3.i/20110124-1.b/0124a031.d/0124a031.cdf

00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19

MH
1/25/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a032.d ARI ID: SF76G
Data file 2: /chem3/pid3.i/20110124-1.b/0124a032.d Client ID:
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 19:47
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	-----	----	-----
7.357	0.005	6630	80799	95.1	TFT(Surr)
14.227	0.001	3263	38735	99.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (9.09 to 17.40)	905544	359323	0.397 M
8015B 2MP-TMB (3.72 to 15.35)	1702573	161883	0.095 M
AK101 nC6-nC10 (4.22 to 13.96)	1177929	97956	0.083 M
NWTPHG Tol-Nap (9.09 to 18.35)	942411	430767	0.457 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
--	----	-----	----	-----
7.356	0.004	18511	91.2	TFT(Surr)
14.225	0.000	31840	95.0	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
6.510	0.004	785	0.57	Benzene
9.200	0.006	772	0.59	Toluene
11.794	0.002	3521	3.12	Ethylbenzene
11.935	0.000	6589	5.34	M/P-Xylene
12.733	0.001	10245	9.19	O-Xylene
ND	---	---	---	MTBE

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

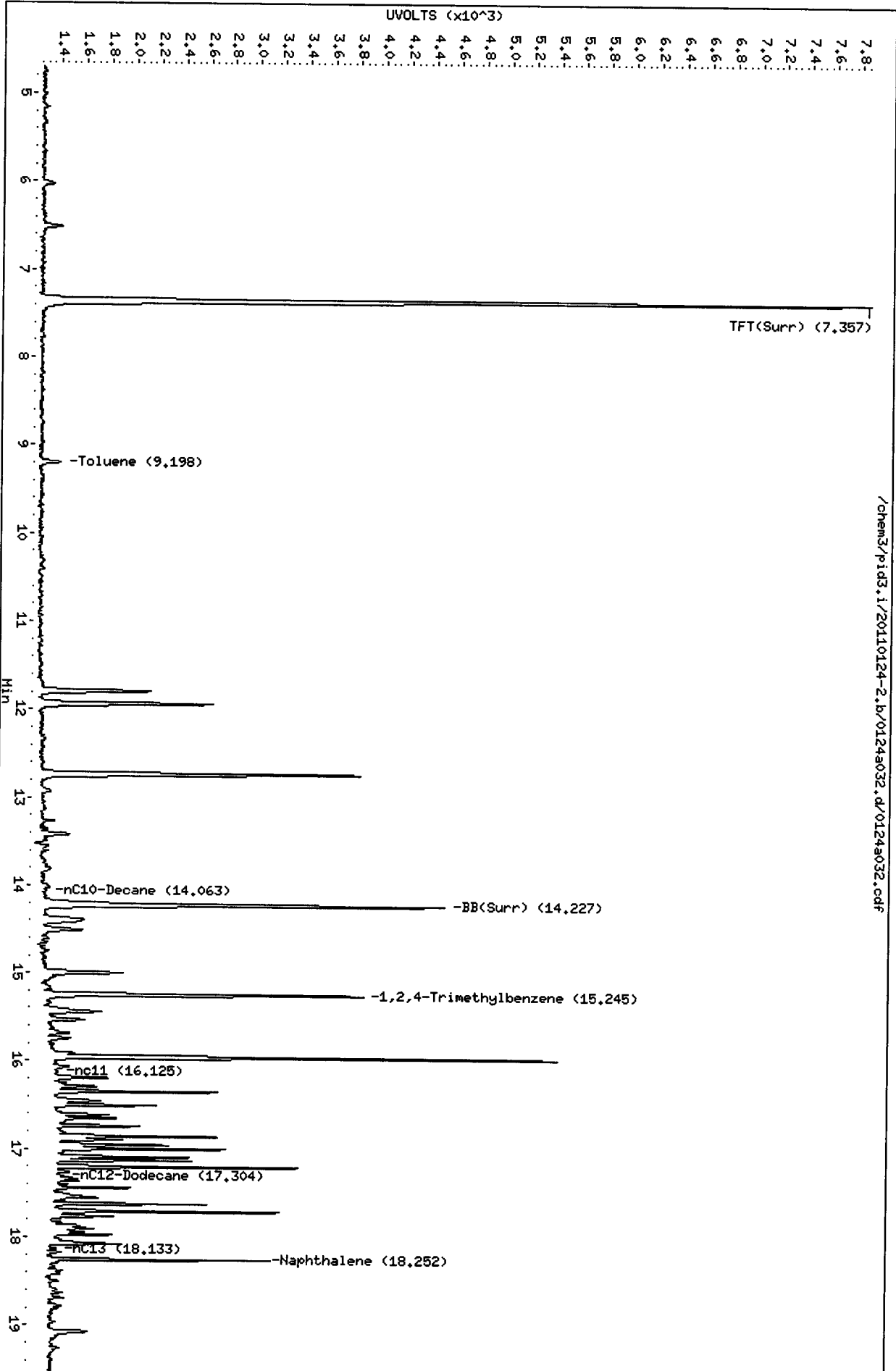
Data File: /chem3/pid3.i/20110124-2.b/0124a032.d
Date : 24-JAN-2011 19:47
Client ID:
Sample Info: SF766

Column phase: RTX 502-2 FID

/chem3/pid3.i/20110124-2.b/0124a032.d/0124a032.cdf

Operator: HH
Column diameter: 0.18

Page 1



09:07:09

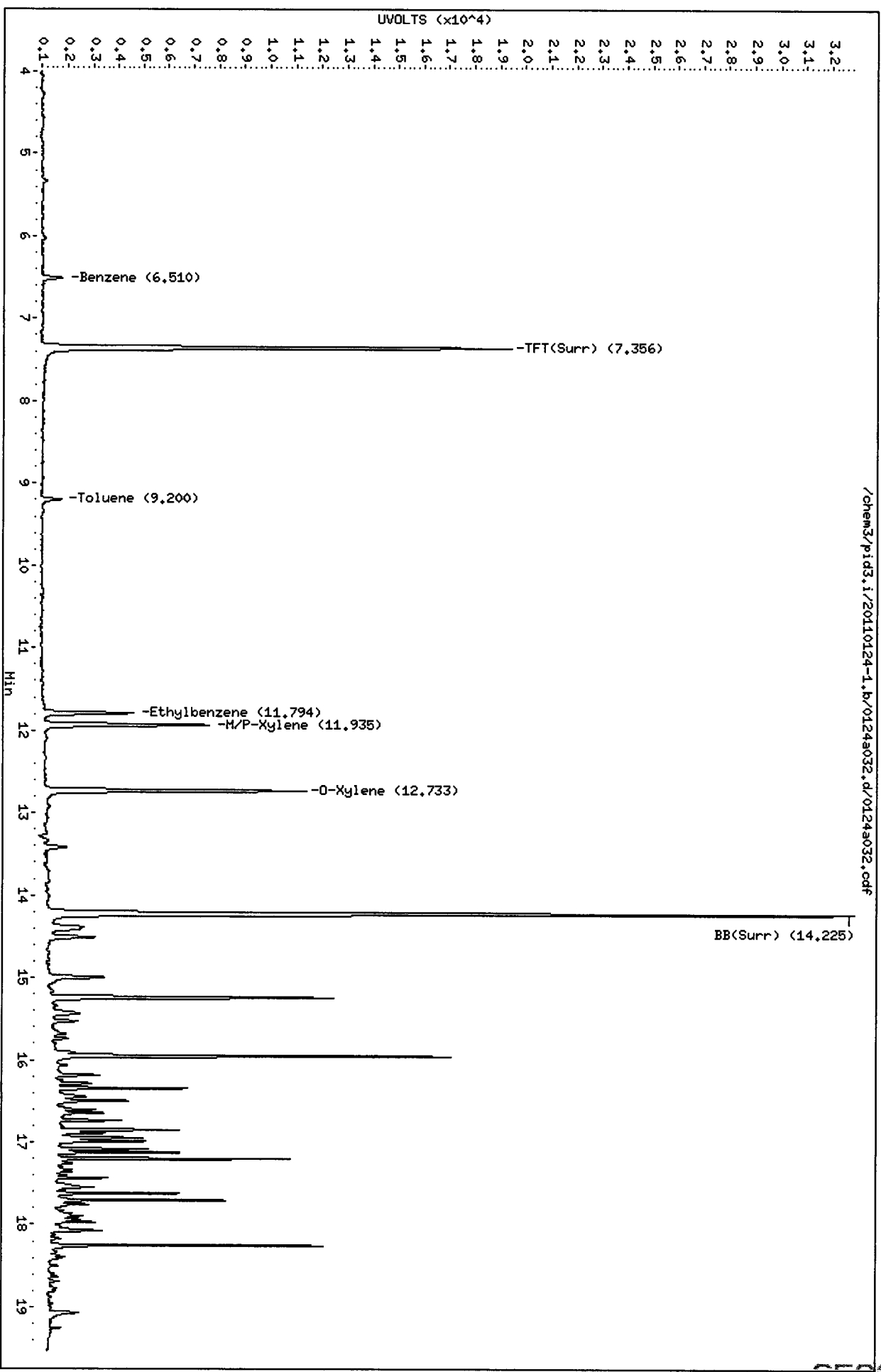
Data File: /chem3/pid3.i/20110124-1.b/0124s032.d
Date: 24-JAN-2011 19:47
Client ID:
Sample Info: SF766

Instrument: pid3.i

Column phase: RTX 502-2 PID

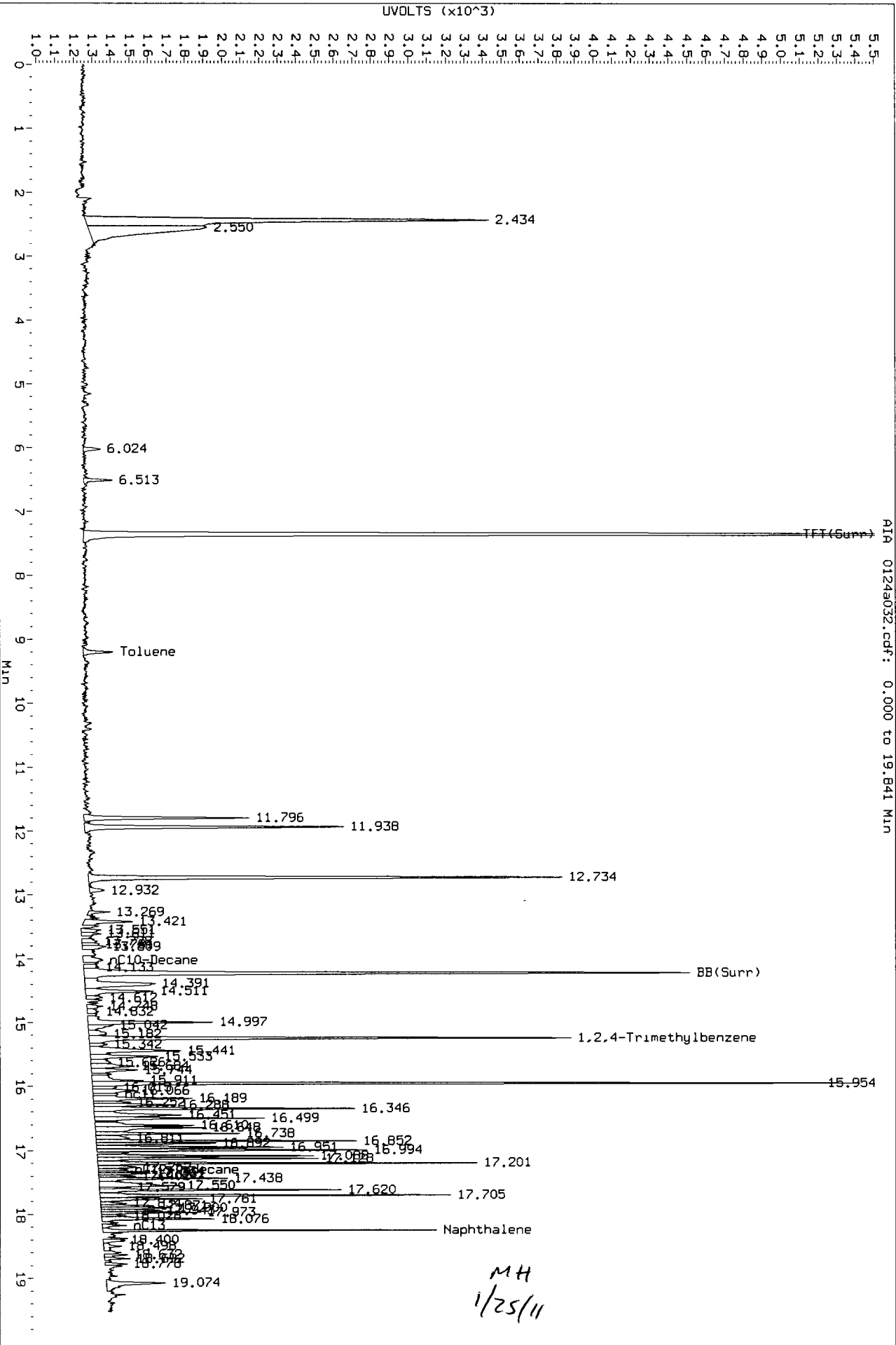
Operator: MH
Column diameter: 0.18

/chem3/pid3.i/20110124-1.b/0124s032.d/0124s032.cdf



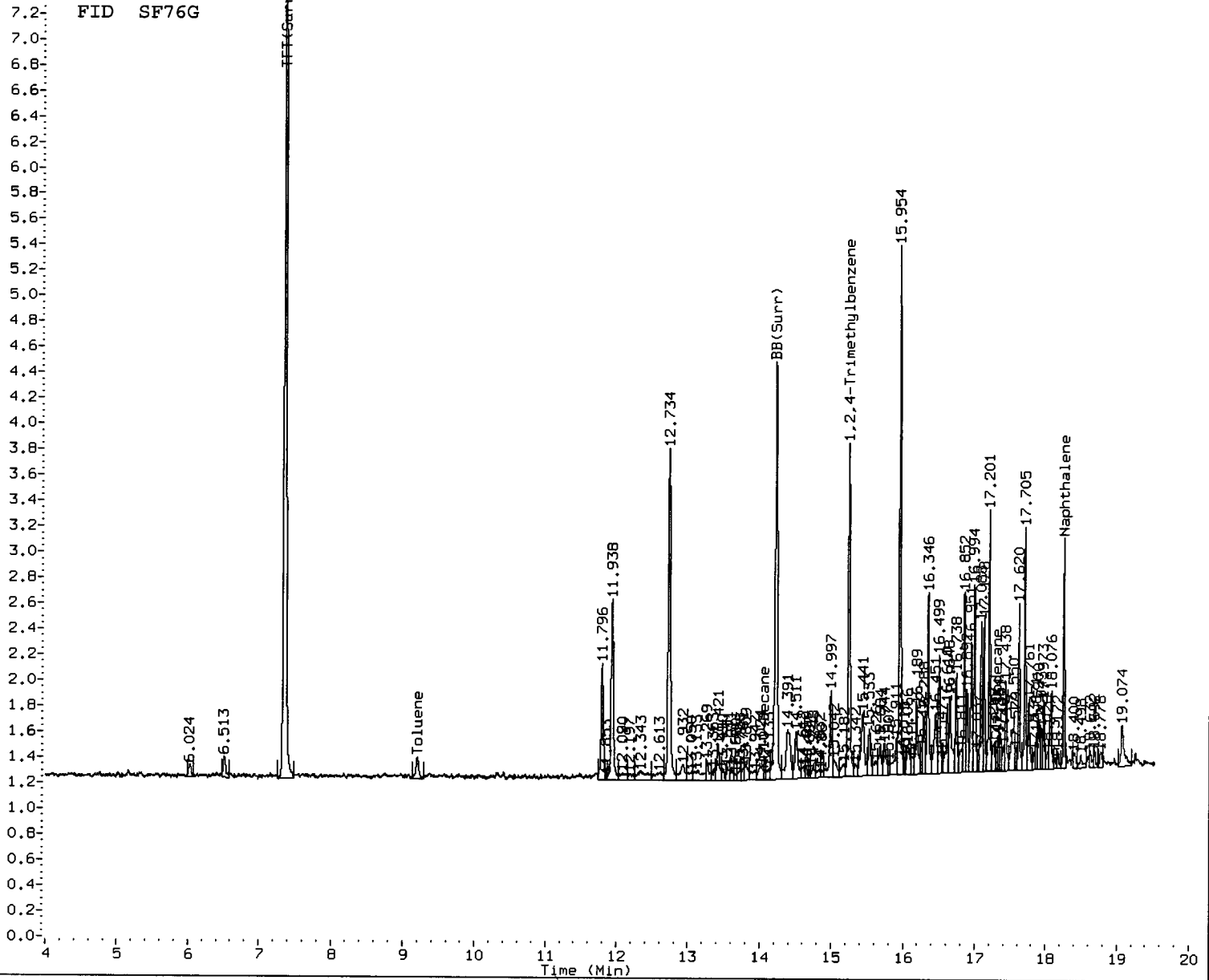
0124 : 0119 : 0115

Data File: /chem3/pid3.1/20110124-2.b/0124a032.d/0124a032.cdf
 Injection Date: 24-JAN-2011 19:47
 Instrument: pid3.1
 Client Sample ID:



FID SF76G

UVOLTS



MANUAL INTEGRATION

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

Analyst: MH

Date: 1/25/11

MH
1/25/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a033.d ARI ID: SF76H
Data file 2: /chem3/pid3.i/20110124-1.b/0124a033.d Client ID:
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 20:13
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.357	0.004	6613	80220	94.9	TFT(Surr)
14.227	0.001	3212	37757	97.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	344264	0.380 M
8015B 2MP-TMB (3.72 to 15.35)	1702573	132225	0.078 M
AK101 nC6-nC10 (4.22 to 13.96)	1177929	76160	0.065 M
NWTPHG Tol-Nap (9.09 to 18.35)	942411	432828	0.459 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
7.356	0.004	18470	91.0	TFT(Surr)
14.226	0.001	31503	94.0	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
6.509	0.003	744	0.54	Benzene
9.199	0.006	810	0.62	Toluene
11.794	0.002	3330	2.95	Ethylbenzene
11.936	0.001	6966	5.64	M/P-Xylene
12.733	0.001	9572	8.58	O-Xylene
ND	---	---	---	MTBE

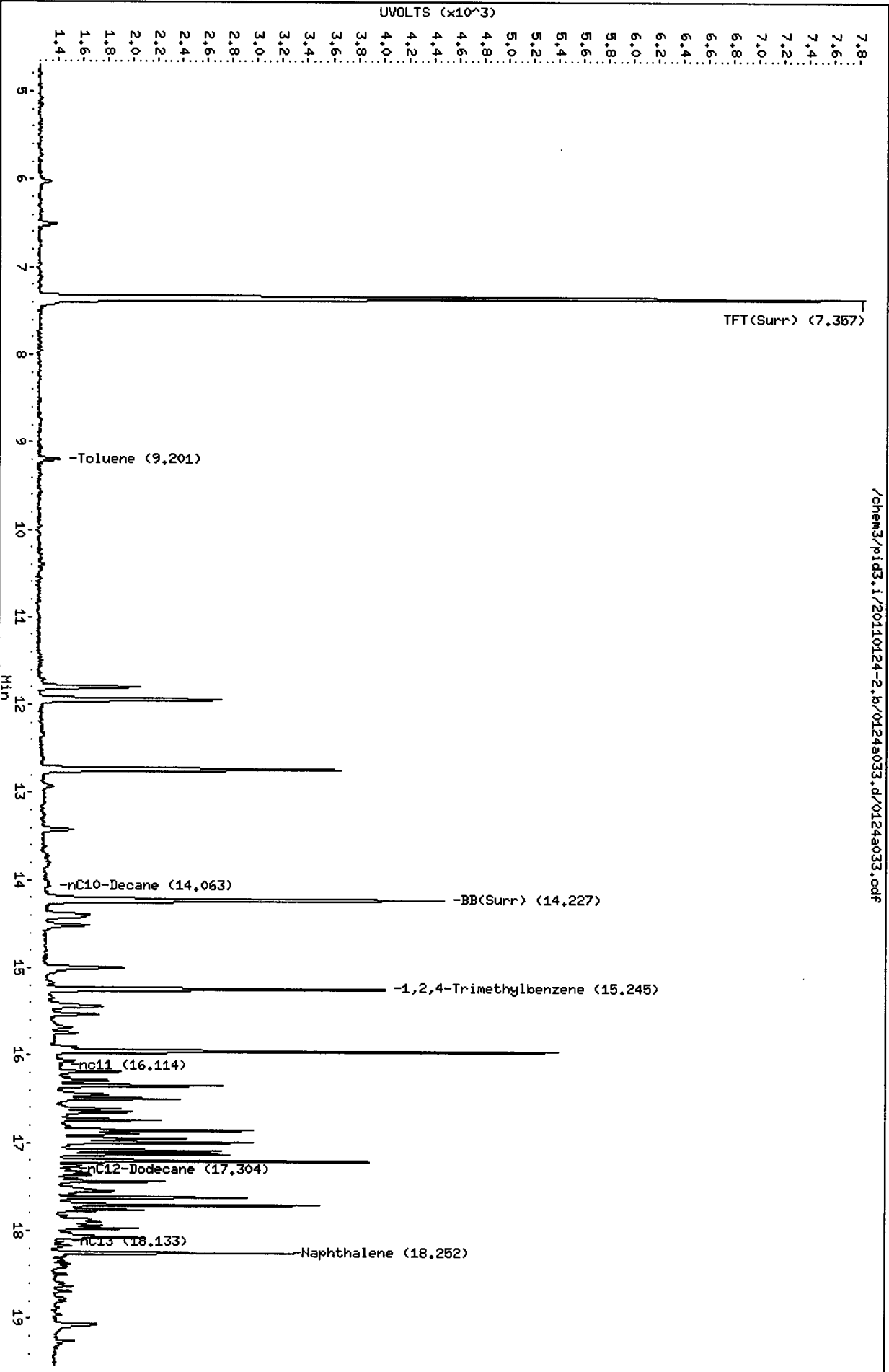
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20110124-2.b/0124a033.d
Date: 24-JAN-2011 20:13
Client ID:
Sample Info: SF76H

Column phase: RTX 502-2 FID

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

/chem3/pid3.i/20110124-2.b/0124a033.d/0124a033.cdf

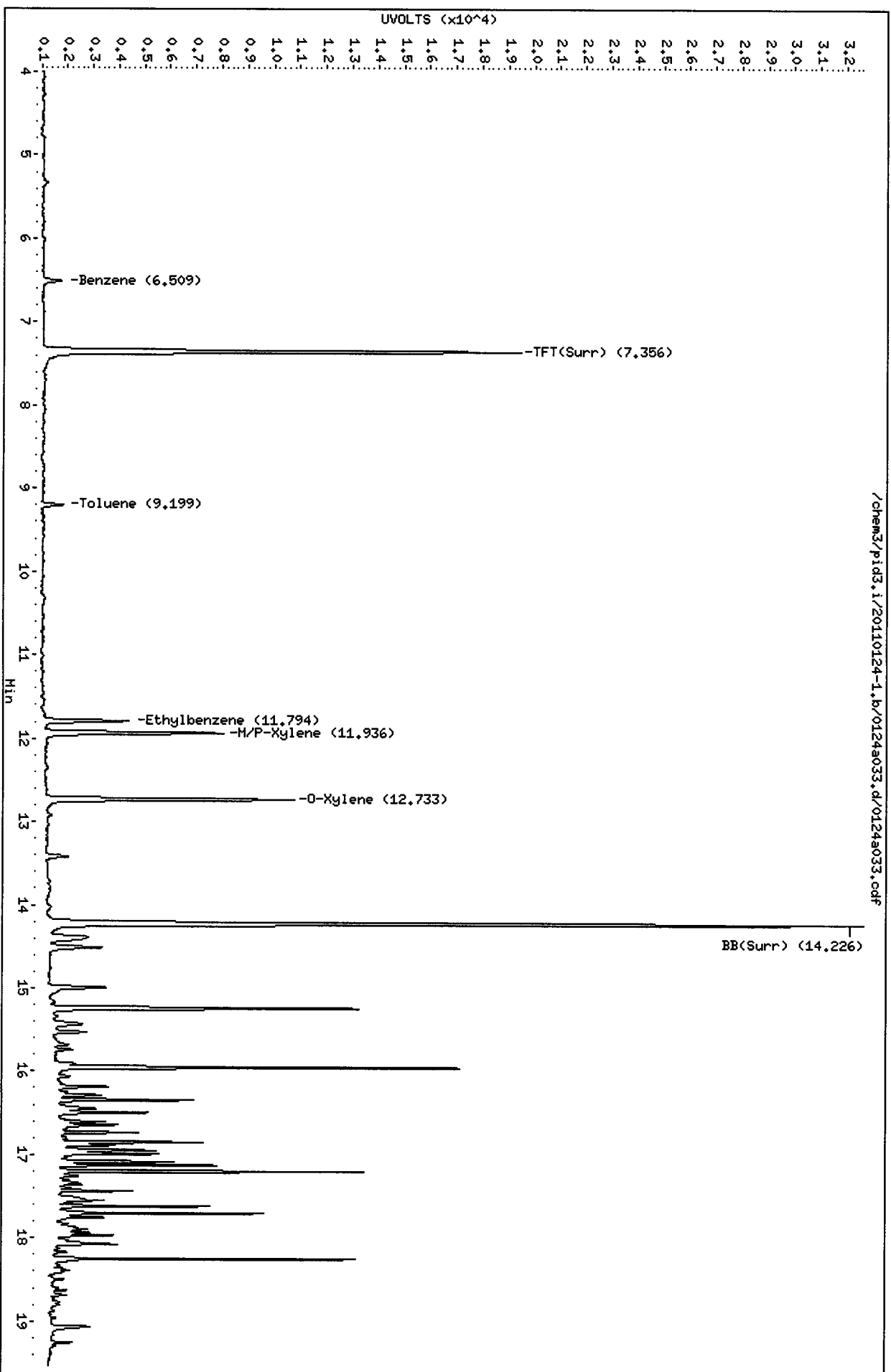


Data File: /chem3/pid3.i/20110124-1.b/0124a033.d
Date: 24-JAN-2011 20:13
Client ID:
Sample Info: SF76H

Column phase: RTX 502-2 PID

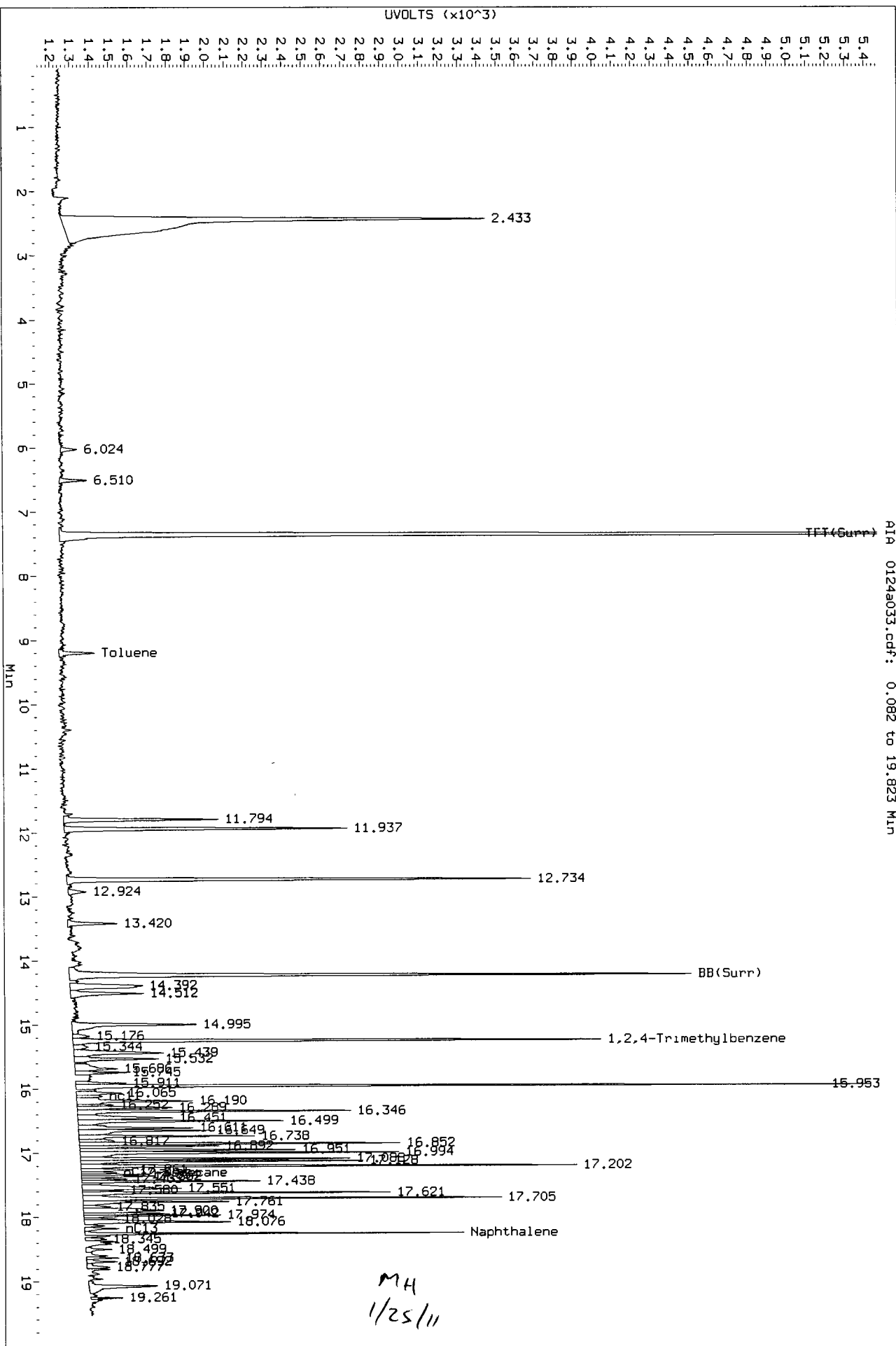
/chem3/pid3.i/20110124-1.b/0124a033.d/0124a033.cdf

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



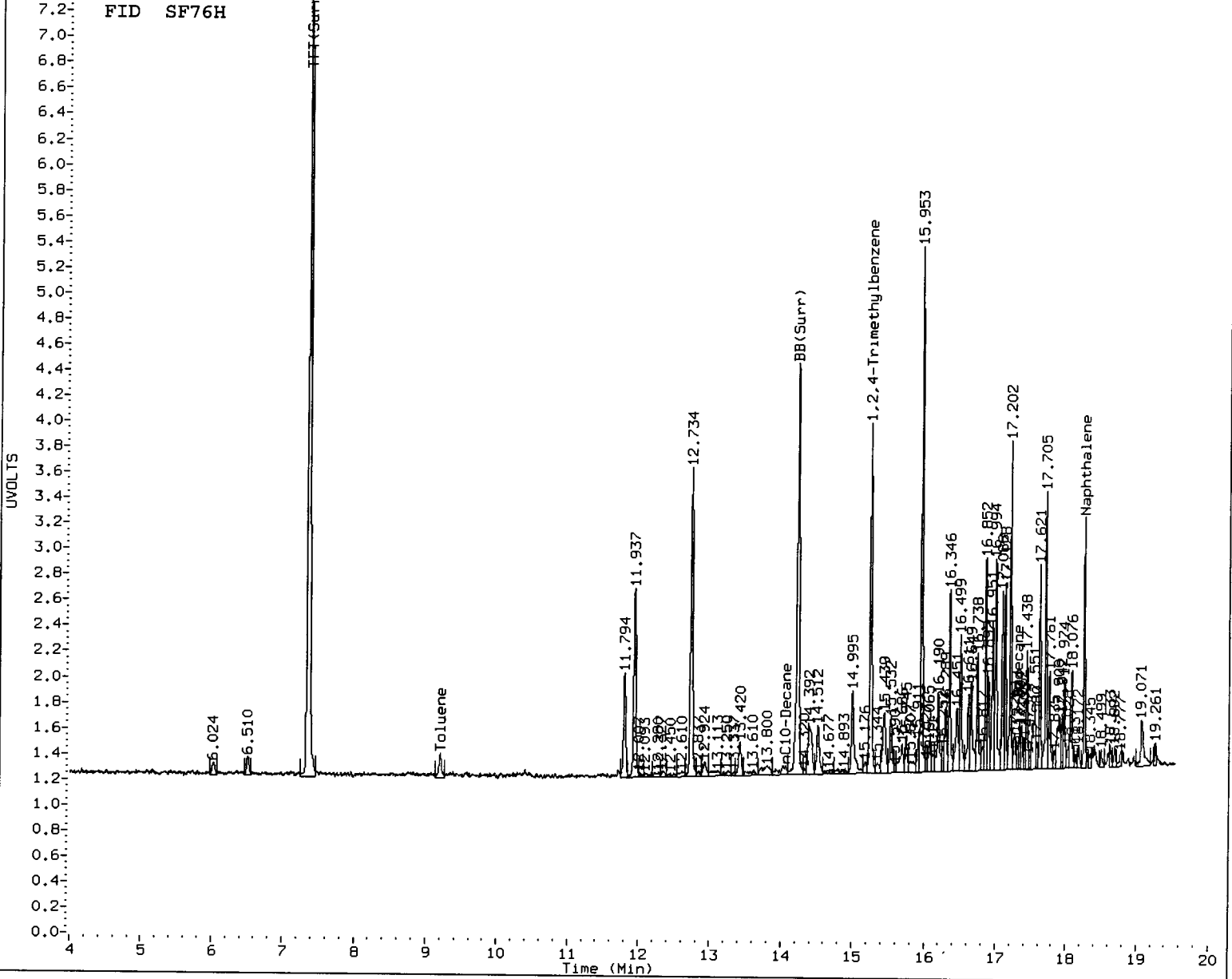
0124 : 01474

Data File: /chem3/pid3.1/20110124-2.b/0124a033.d/0124a033.cdf
Injection Date: 24-JAN-2011 20:13
Instrument: pid3.1
Client Sample ID:



FID SF76H

UVOLTS



MANUAL INTEGRATION

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

Analyst: MH

Date: 1/25/11

MH
1/25/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a035.d ARI ID: BCAL 4
Data file 2: /chem3/pid3.i/20110124-1.b/0124a035.d Client ID:
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 21:06
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

=====
FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.358	0.005	6456	76210	92.6	TFT(Surr)
14.226	0.000	3271	34953	99.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.09 to 17.40)	905544	509991	0.563
8015B 2MP-TMB (3.72 to 15.35)	1702573	491303	0.289
AK101 nC6-nC10 (4.22 to 13.96)	1177929	457749	0.389
NWTPHG Tol-Nap (9.09 to 18.35)	942411	509991	0.541

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
7.357	0.005	18114	89.2	TFT(Surr)
14.225	0.000	32496	97.0	BB(Surr)

SW8021 (PID)

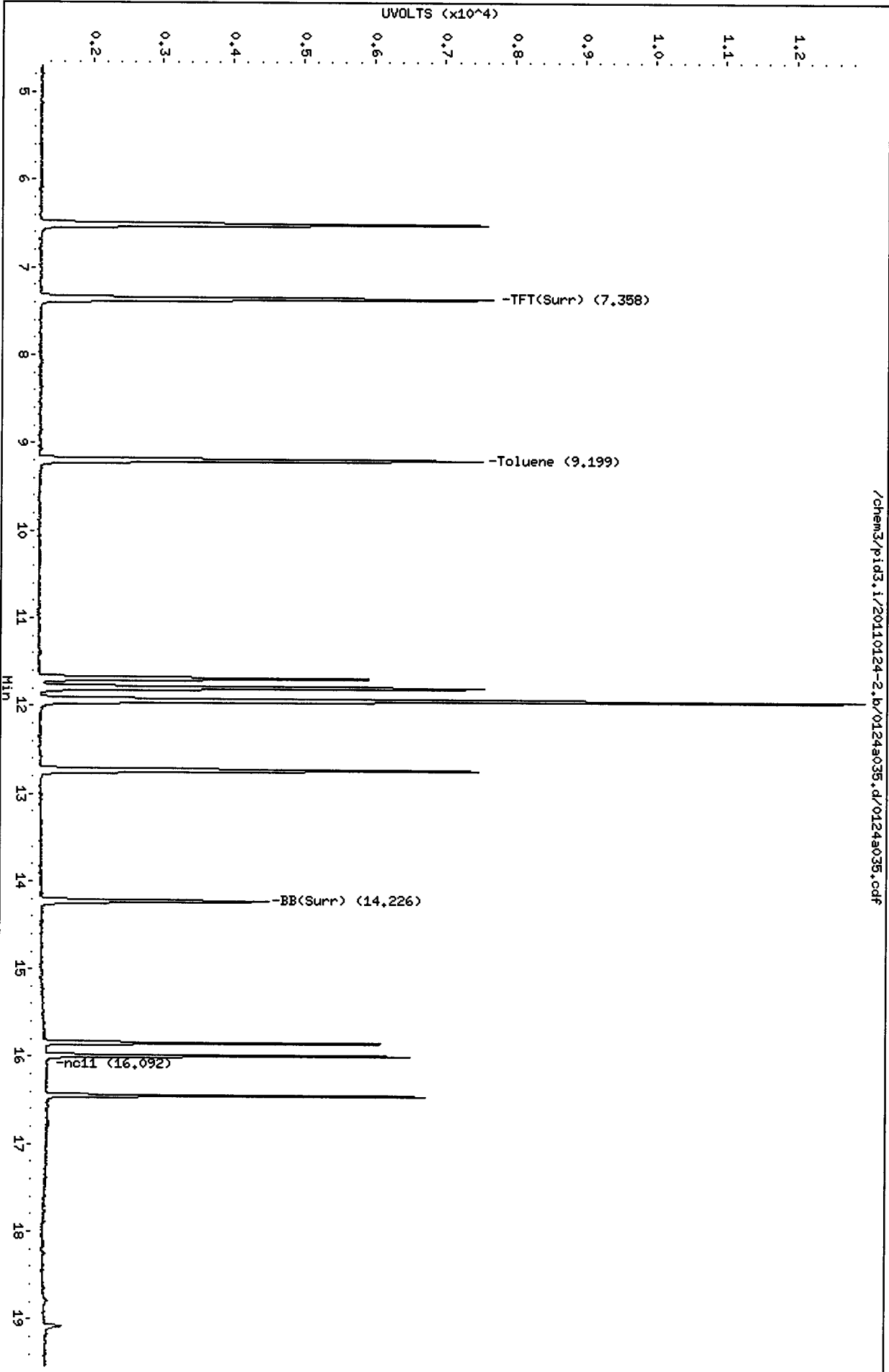
RT	Shift	Response	Amount	Compound
6.510	0.004	32899	23.71	Benzene
9.197	0.004	29698	22.85	Toluene
11.793	0.001	26889	23.84	Ethylbenzene
11.937	0.002	58140	47.09	M/P-Xylene
12.733	0.001	25833	23.16	O-Xylene
4.090	0.003	11315	24.65	MTBE

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

Data File: /chem3/pid3.i/20110124-2.b/0124a035.d
Date : 24-JAN-2011 21:06
Client ID:
Sample Info: B0AL 4

Column phase: RTX 502-2 FID

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



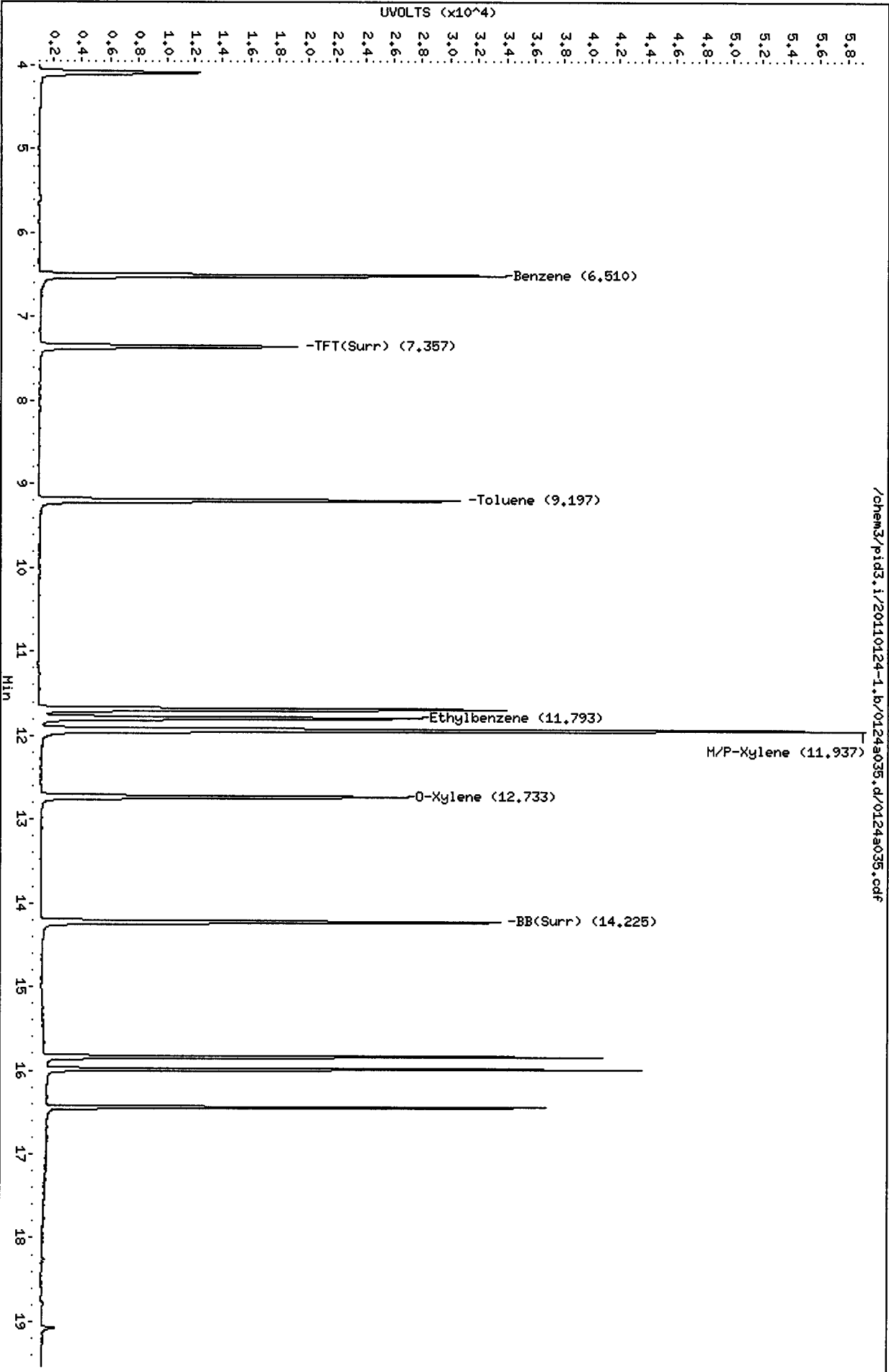
02:57:19 : 02

Data File: /chem3/pid3.i/20110124-1.b/0124a035.d
Date : 24-JAN-2011 21:06
Client ID:
Sample Info: BCRL 4

Column phase: RTX 502-2 PID

/chem3/pid3.i/20110124-1.b/0124a035.d/0124a035.cdf

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



01:26:11

MH
1/25/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20110124-2.b/0124a036.d ARI ID: GCAL 4
Data file 2: /chem3/pid3.i/20110124-1.b/0124a036.d Client ID:
Method: /chem3/pid3.i/20110124-1.b/PIDB.m Injection Date: 24-JAN-2011 21:32
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 17-JAN-20110 Dilution Factor: 1.000
BETX Ical Date: 17-JAN-2011

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	-----	----	-----
7.357	0.004	7496	98006	107.5	TFT(Surr)
14.225	-0.001	3423	40773	104.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (9.09 to 17.40)	905544	2108402	2.328 M
8015B 2MP-TMB (3.72 to 15.35)	1702573	3978617	2.337 M
AK101 nC6-nC10 (4.22 to 13.96)	1177929	2687426	2.281 M
NWTPHG Tol-Nap (9.09 to 18.35)	942411	2231349	2.368 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
--	----	-----	----	-----
7.356	0.004	19038	93.8	TFT(Surr)
14.224	-0.001	32556	97.2	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
6.512	0.006	8346	6.01	Benzene
9.197	0.003	90238	69.43	Toluene
11.793	0.001	25482	22.59	Ethylbenzene
11.940	0.004	98717	79.96	M/P-Xylene
12.733	0.001	36606	32.82	O-Xylene
4.092	0.005	106656	232.36	MTBE

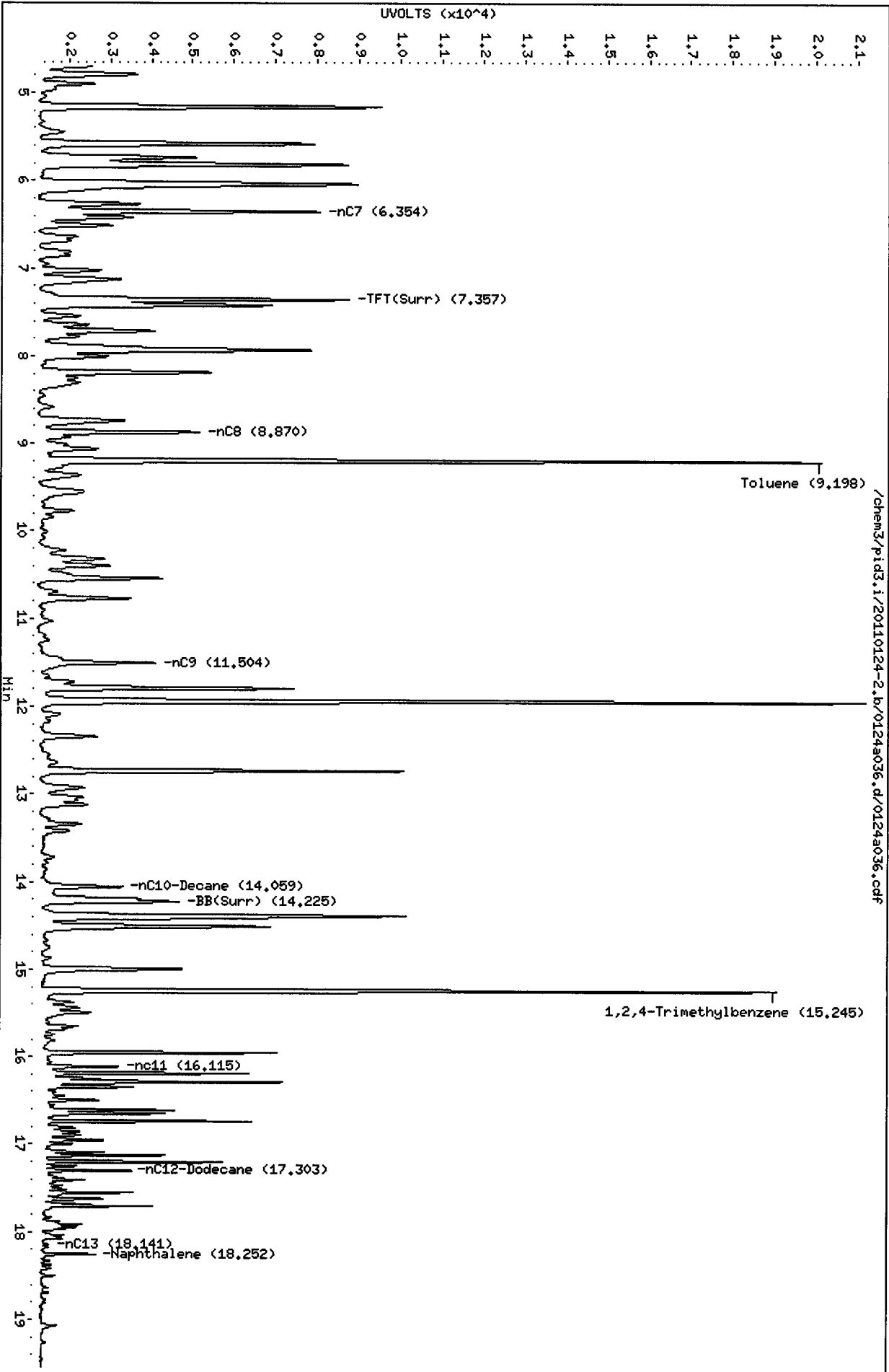
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

SF26:01460

Data File: /chem3/pid3.i/20110124-2.b/0124a036.d
Date : 24-JAN-2011 21:32
Client ID:
Sample Info: GCAL 4

Column phase: RTX 502-2 FID

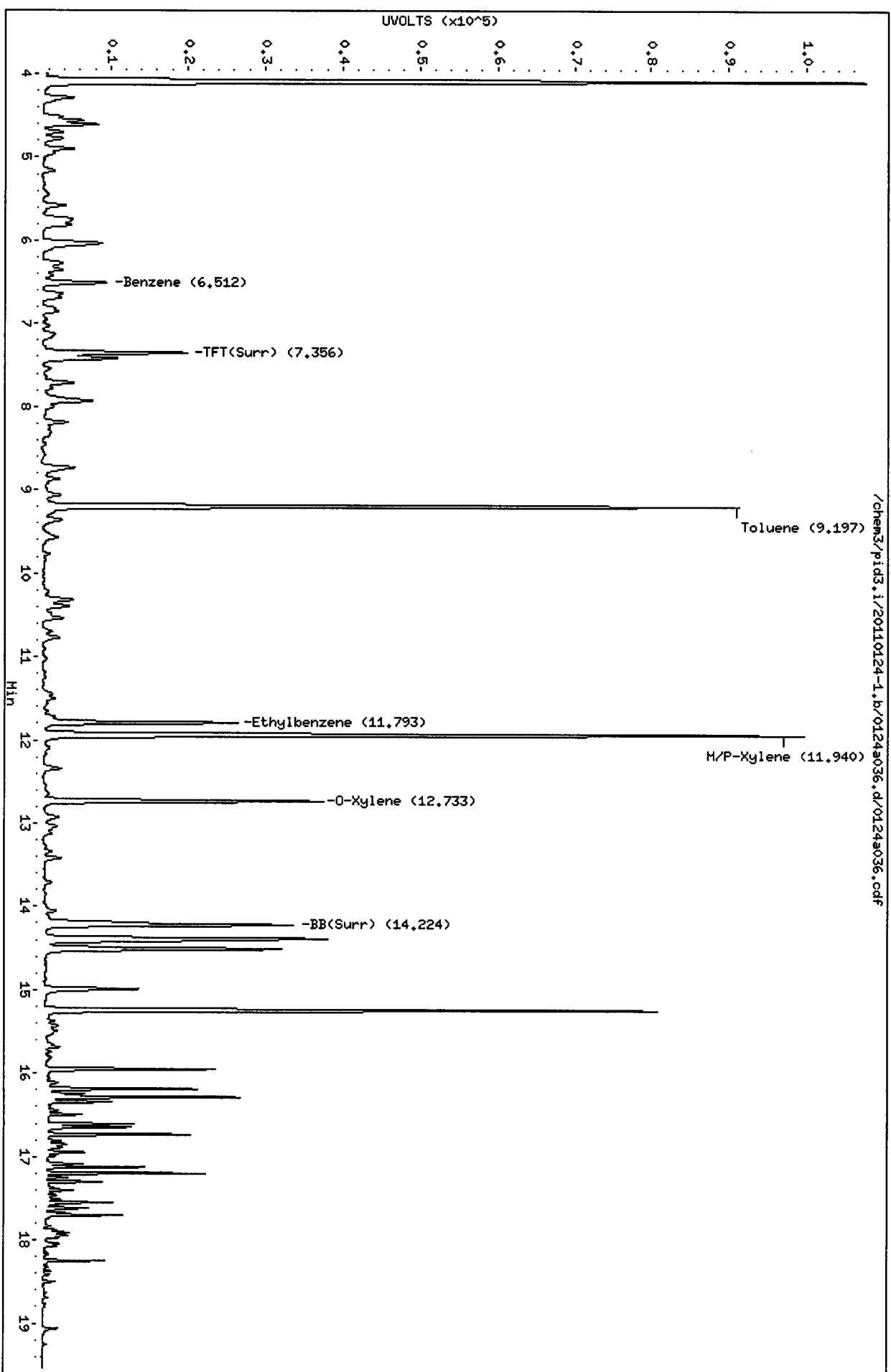
Instrument: pid3.i
Operator: MH
Column diameter: 0.18



Data File: /chem3/pid3.i/20110124-1.b/0124a036.d
Date: 24-JAN-2011 21:32
Client ID:
Sample Info: GCAL 4

Column phase: RTX 502-2 PID

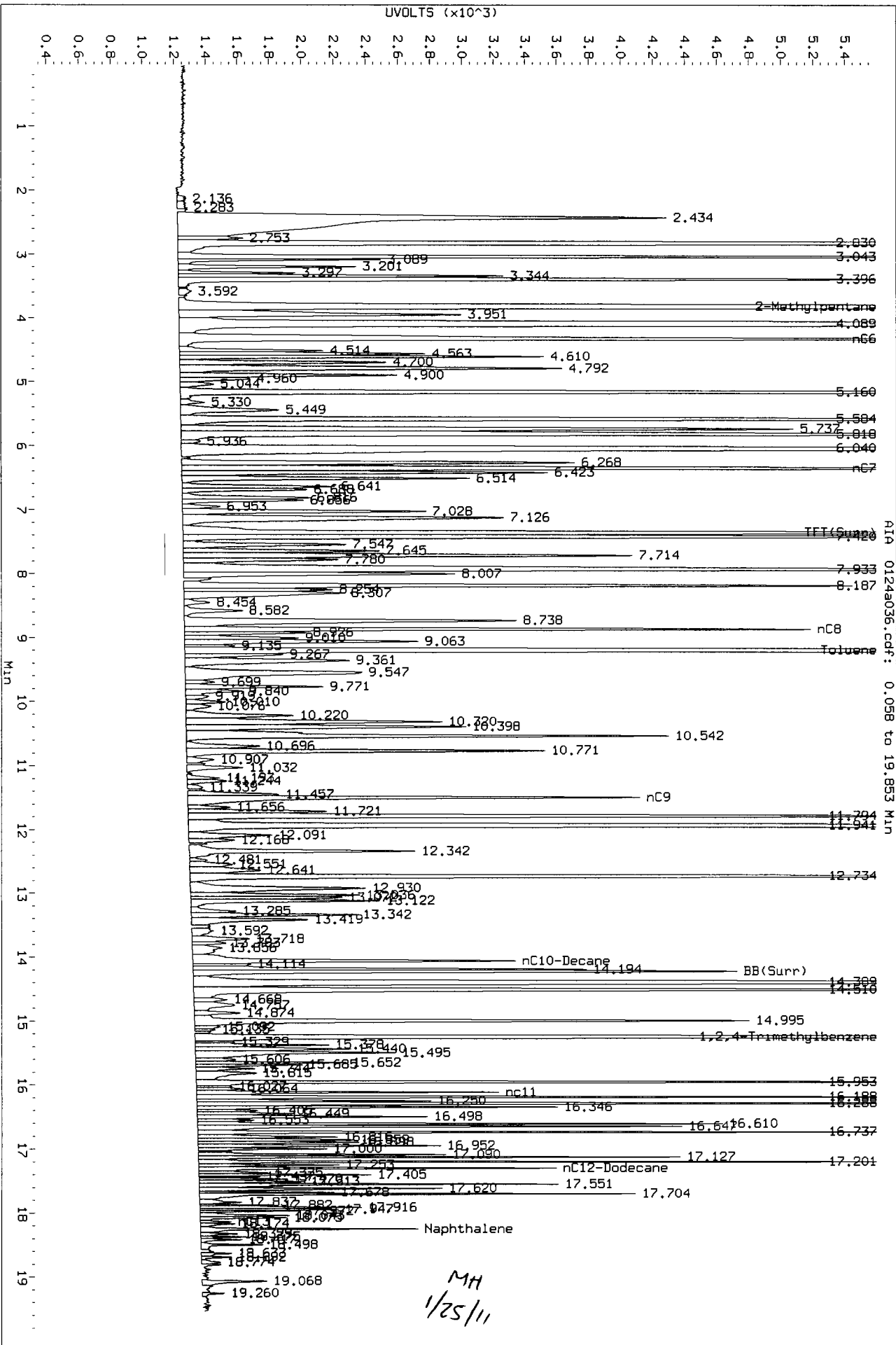
Instrument: pid3.i
Operator: MH
Column diameter: 0.18



/chem3/pid3.i/20110124-1.b/0124a036.d/0124a036.cdf

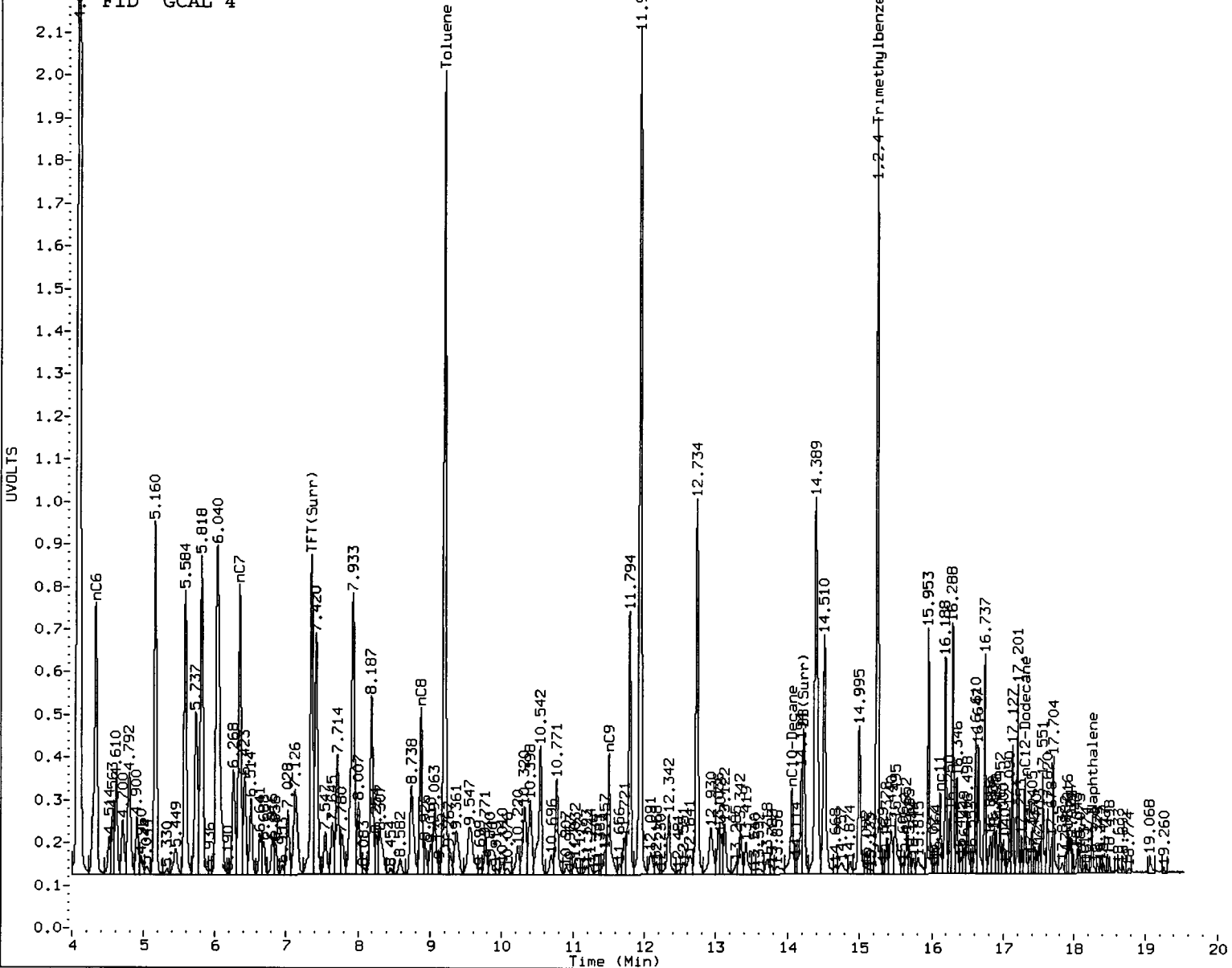
20110124

Data File: /chem3/p1d3.1/20110124-2.b/0124a036.d/0124a036.cdf
 Injection Date: 24-JAN-2011 21:32
 Instrument: p1d3.1
 Client Sample ID:



MH
1/25/11

FID GCAL 4



MANUAL INTEGRATION

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

Analyst: MH

Date: 1/25/11

**Metals Raw Data
Preparation Bench Sheets and Notes**

ARI Job ID: SF26, SF50, SF76



Digestion Log

Analyst: KM

Date: 01/26/11

Matrix: Water Block ID: #12 Block Temp: 91°C

Thermometer: MP29

ARI Sample ID	Btl #	pH<2	Prep Code: <u>REN</u>		Prep Code:		Comments
			Initial Wt (g) Vol (mL)	Final Vol (mL)	Initial Wt (g) Vol (mL)	Final Vol (mL)	
SF26 A	9	✓	50.0	25.0			}
" B	9	✓					
" C	9	✓					
" D	21	✓					
" DDUP	21	✓					
" DSPK	21	✓					
" MBI	—	✓					
" MBISPK	—	✓					
SF50 A	5	✓					
" B	3	✓					
" C	3	✓					
" D	3	✓					
" F	3	✓					
SF76 B	14	✓					
" D	14	✓					
" E	14	✓					
" F	14	✓					
" G	14	✓					
" H	14	✓	50.0	25.0			
KM							
01/26/11							

Chemical/Reagent ID:

HNO₃: MP2039 HCl: — H₂O₂: ISE814 Tube Lot #: 1010192

**Metals Raw Data
Run Logs, Calibrations, and Raw Data**

ARI Job ID: SF26, SF50, SF76



ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 1-27-11

Analyst: AT

Page: 1 of 6

All corrections made by analyst unless otherwise noted.

1-25-11

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		STD 0			
		↓ 1			Min method
		2			not on run log
		3			
		↓ 4			
		Rinse			
		ICV			
		ICB			
		CCV			
		CCB			
		Dual Det			
		STD 0			2794-10
		↓ 1			2795-4
		2			↓ -5
		3			2796-8
		↓ 4			2795-6
		Rinse Sample			
		ICV			2732-4
		ICB			
		CCV			
		CCB			
		Low Check			
		ICSA			Zn cont
		ICSA B			↓



ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 1-27-11 Analyst: at Page: 2 of 6

All corrections made by analyst unless otherwise noted.

Edt Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		CCVZ			
		CCBZ			
		SF27 MB1	REN	2	PD
		MBZ			
		MB1spl			
		MB2spl			
		SF25 A		5	cr
		B			
		H			
		I			
		SF49 A		2	
		B			
		CCV3			
		CCB3			
		SF49 MB1	REN	2	
		MBZ			
		MB1spl			✓
		MB2spl			✓
		H Dup			Zn > 1RL Diff RZn
		H			
		H spl			✓
		PD Dup			✓
		P			
		P spl			✓



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ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 1-27-11 Analyst: AT Page: 3 of 6

All corrections made by analyst unless otherwise noted.

At 1-28-11

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		CCV4			
		CCB4			
		SF49 D	REW	Z	
		E			
		F			
		G			
		H			
		I			
		J			
		K			
		L			
		M			
		N			
		CCV5			
		CCB5			
		SF49 A	RHW	Z	
		B			
		C			
		D			
		E			
		F			
		G			
		H			
		I			
		J			
		K			
		L			
		M			
		N			
		O	REW		
		P			
					Run As Se (poss C.O)



ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 1-27-11 Analyst: at Page: 4 of 6

All corrections made by analyst unless otherwise noted. at 1-28-11

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		CCV5 6			
		CCB5 6			Rinse tubing disconnected
		SF49 MBI	RHN	2	
		MBZ			
		MB1 spl			✓
		MB2 spl			✓
		HDup			
		it			
		H spl			✓
		PDup			
		P			
		→ P spl	→	→	✓
		CCV7			10 lines
		CCB7			mo spl Th high
		SF49 K:	RHN	2	
		ML			
		NM			
		N			
		O			
		→ Q	→	→	
		CCV8			
		CCB8			mo th spl Th high
		SF26 MBI	REN	2	
		→ MB1 spl	→	→	✓



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ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 1-27-11

Analyst: MA

Page: 5 of 6

All corrections made by analyst unless otherwise noted.

MA 1-28-11

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SF20 DDup	REU	Z	
		D			
		Dup			
ML		zzzzzz D Post			
		A			RR AS (Pass C.O.)
		B			
		C			
		SF50 A			
		CCV9			
		CCB9			Mo Sb Thk high
		SF50 B	REU	Z	RR AS (Pass C.O.)
		C			
		D			
		F			
		SF76 B			
		D			
		E			
		F			
		G			
		H			
		CCV10			
		CCB10			Mo Ag Sb Thk high
		SF68 MB1	REU	Z	
		MB2			MA 1-28-11