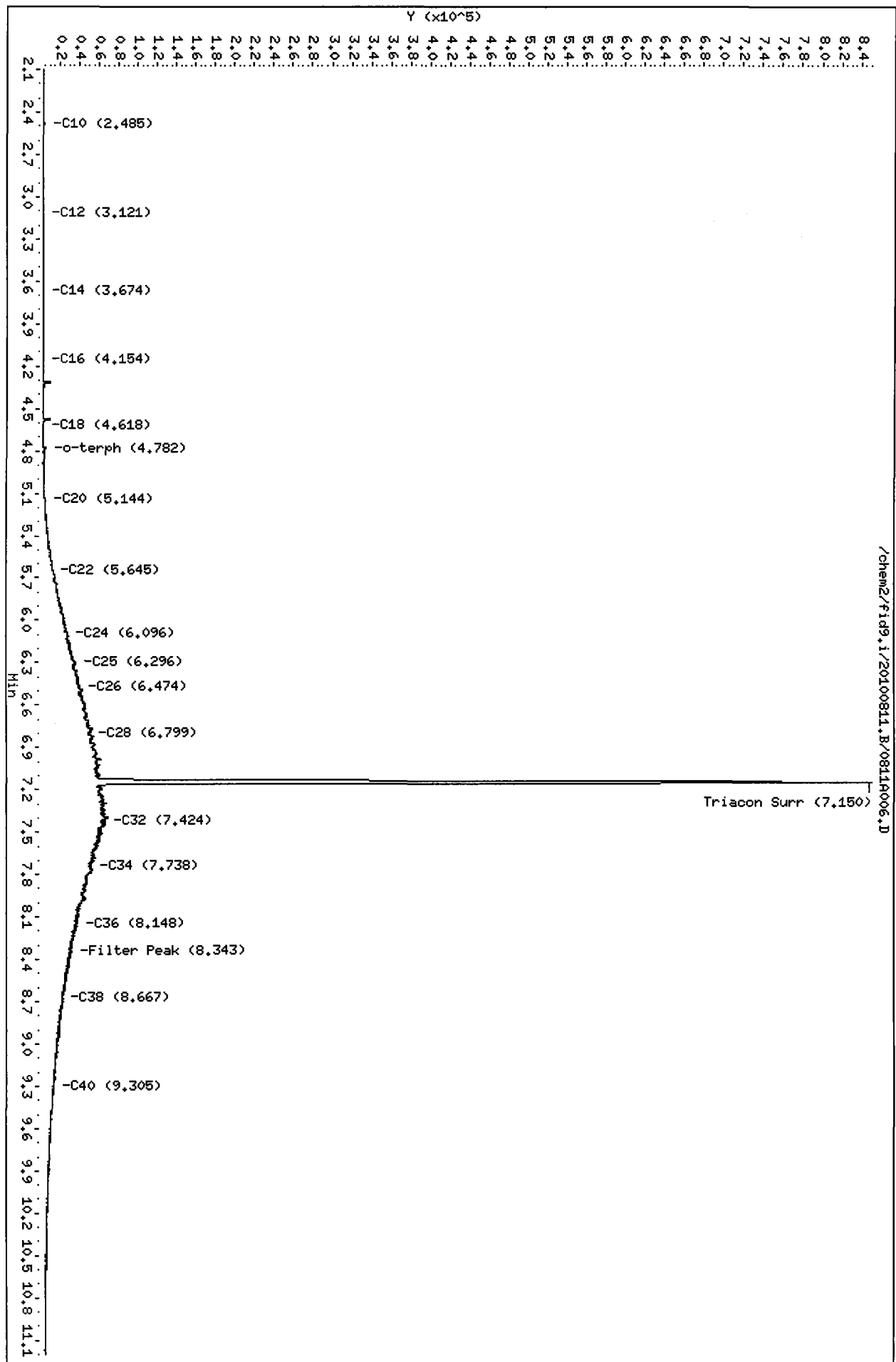


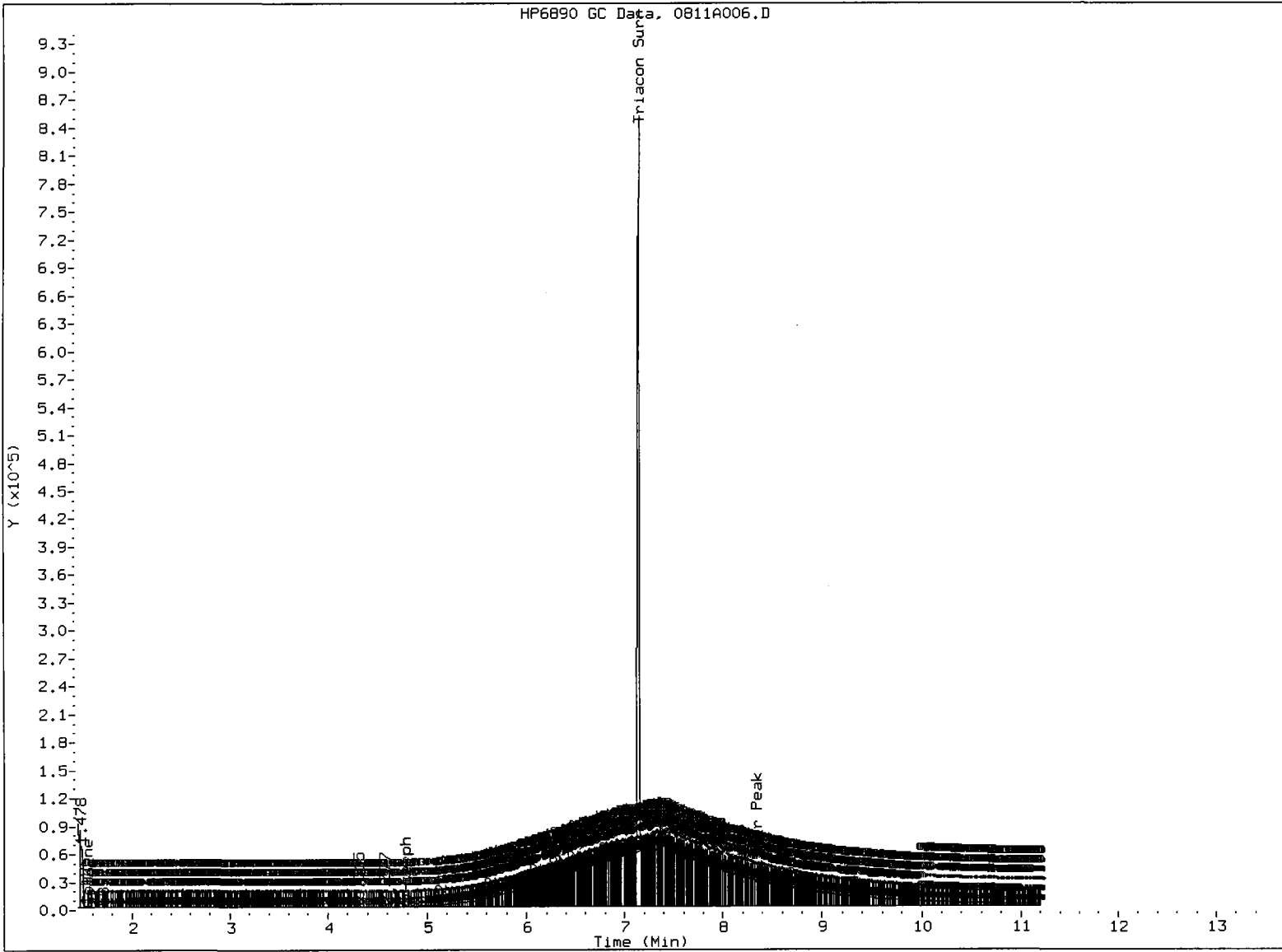
Data File: /chem2/fid9.i/20100811.B/0811A006.D
Date : 11-AUG-2010 14:41

Client ID:
Sample Info: H01L#1

Column phase: RTX-1

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





MANUAL INTEGRATION

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

Analyst: mo

Date: 8/12/10

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811raw.b/0811A007.D ARI ID: RG78F
 Method: /chem2/fid9.i/20100811.B/ftphfid9a.m Client ID: PSB10-0-0.5-073010
 Instrument: fid9.i Injection: 11-AUG-2010 15:53
 Operator: MS Dilution Factor: 5
 Report Date: 08/12/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.556	0.005	899	877	GAS (Tol-C12)	60198	3
C8	1.711	-0.006	339	364	DIESEL (C12-C24)	1109094	42
C10	2.487	0.006	712	664	M.OIL (C24-C38)	7486332	585
C12	3.113	-0.006	467	240	AK-102 (C10-C25)	1271544	44
C14	3.677	0.002	283	202	AK-103 (C25-C36)	6272179	1252
C16	4.164	0.008	1810	2089			
C18	4.600	-0.006	4621	3572			
C20	5.152	0.007	7288	10153			
C22	5.643	-0.001	13161	11289			
C24	6.093	-0.001	20743	3709			
C25	6.298	0.003	28102	23050			
C26	6.474	-0.002	32778	18598			
C28	6.790	-0.006	55288	44218			
C32	7.406	-0.014	114880	227989	JP-4 (Tol-C14)	68851	4
C34	7.744	0.000	58366	47796	BUNKERC (C10-C38)	8617350	983
Filter Peak	8.345	0.001	38967	8518			
C36	8.148	-0.001	44231	10572			
C38	8.672	0.001	29470	17335			
C40	9.316	0.008	16640	10344			
o-terph	4.790	-0.004	281717	203354	JET-A (C10-C18)	157481	11
Triacon Surr	7.154	0.009	235477	343160	JP8 (Tol-C16)	97578	6

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
 NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

Surrogate	Area	Amount	%Rec
o-Terphenyl	203354	7.9	87.7
Triacantane	343160	17.3	192.3

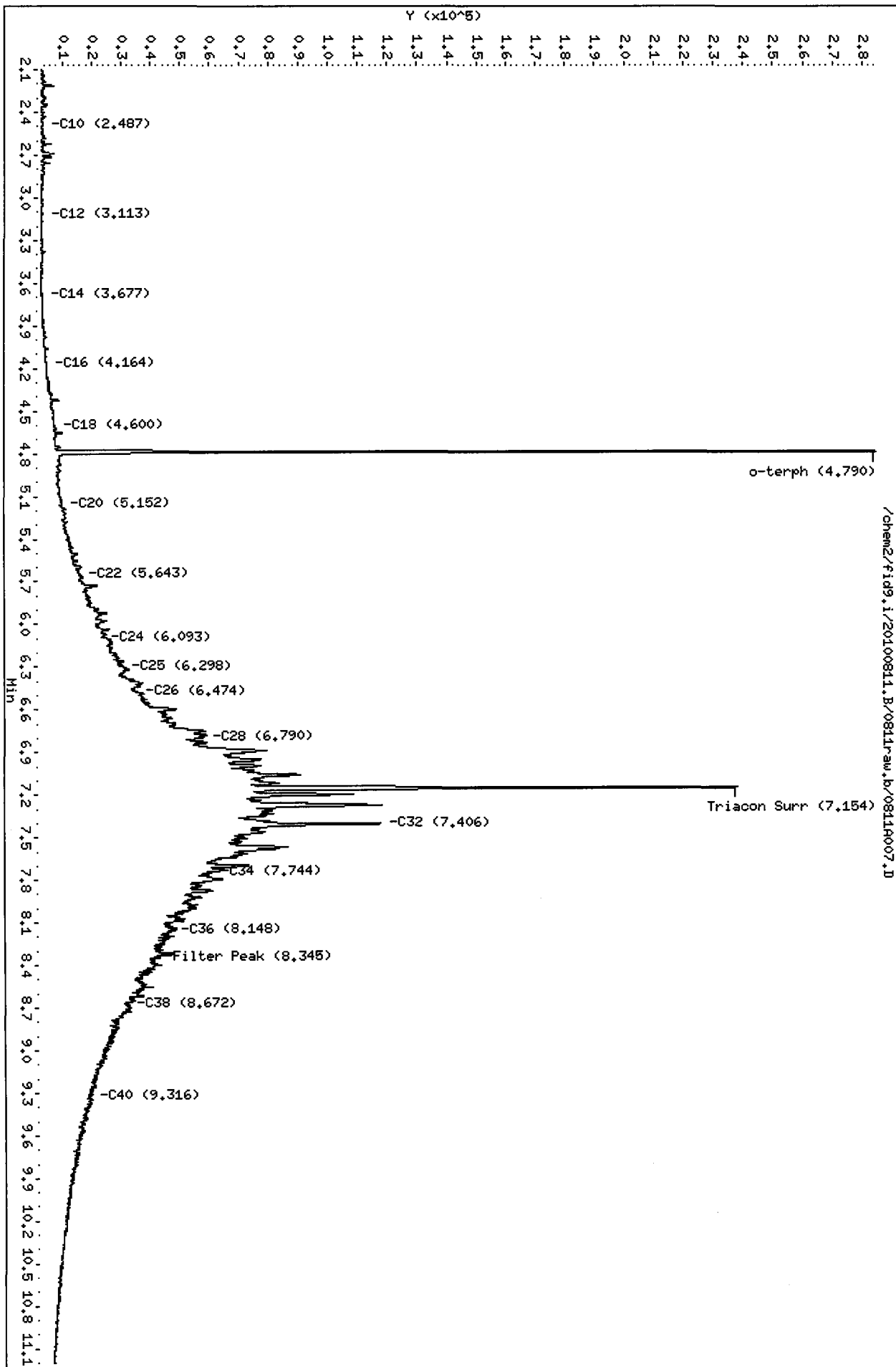
MS 8/12/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811raw.b/0811R007.D
Date: 11-AUG-2010 15:53
Client ID: PSB10-0-0.5-073010
Sample Info: RC78F.5

Column phase: RTX-1

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



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811raw.b/0811A008.D ARI ID: RG78I
 Method: /chem2/fid9.i/20100811.B/ftphfid9a.m Client ID: PSB10-4-6-073010
 Instrument: fid9.i Injection: 11-AUG-2010 16:15
 Operator: MS Dilution Factor: 1
 Report Date: 08/12/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.565	0.014	2235	1635	GAS (Tol-C12)	249579	12
C8	1.725	0.009	873	757	DIESEL (C12-C24)	2836172	108
C10	2.485	0.003	3605	3177	M.OIL (C24-C38)	14266636	1116
C12	3.123	0.004	1694	1202	AK-102 (C10-C25)	3284158	113
C14	3.679	0.003	2537	2575	AK-103 (C25-C36)	12211820	2438
C16	4.153	-0.003	4724	2601			
C18	4.613	0.007	15837	21736			
C20	5.139	-0.006	19896	30704			
C22	5.645	0.000	34044	8683			
C24	6.093	-0.002	61753	75894			
C25	6.287	-0.007	69693	75845			
C26	6.479	0.003	82446	145026			
C28	6.806	0.010	109536	70885			
C32	7.423	0.003	139832	72057	JP-4 (Tol-C14)	300105	18
C34	7.743	0.000	100107	33740	BUNKERC (C10-C38)	17229682	1964
Filter Peak	8.340	-0.003	64851	46531			
C36	8.148	0.000	72505	20122			
C38	8.674	0.003	48221	21873			
C40	9.303	-0.005	25062	10795			
o-terph	4.788	-0.005	1180718	1026708	JET-A (C10-C18)	516850	37
Triacon Surr	7.144	-0.001	886729	1203325	JP8 (Tol-C16)	390438	22

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
 NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

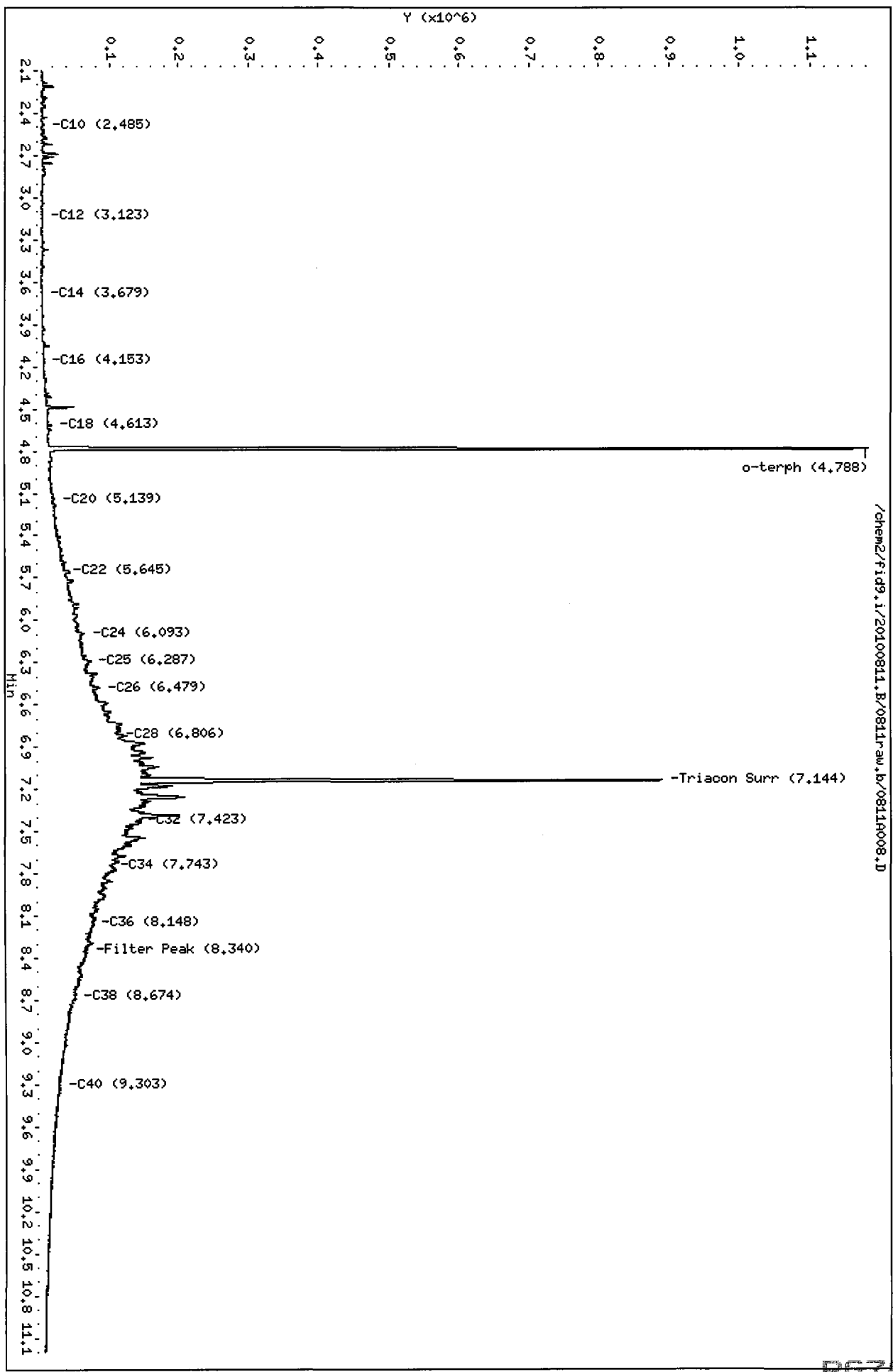
Surrogate	Area	Amount	%Rec
o-Terphenyl	1026708	39.9	88.6
Triacontane	1203325	60.7	134.8

Ms 8/12/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811raw.b/0811A008.D
Date: 11-AUG-2010 16:15
Client ID: PSB10-4-6-073010
Sample Info: RG781
Column phase: RTX-1

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



/chem2/fid9.i/20100811.B/0811raw.b/0811A008.D

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811A008.D
Method: /chem2/fid9.i/20100811.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 08/12/2010

ARI ID: RG78I
Client ID: PSB10-4-6-073010
Injection: 11-AUG-2010 16:15
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.565	0.014	2235	1635	GAS (Tol-C12)	249579	12
C8	1.725	0.009	873	757	DIESEL (C12-C24)	2880842	109
C10	2.485	0.003	3605	3177	M.OIL (C24-C38)	14672162	1147
C12	3.123	0.004	1694	1202	AK-102 (C10-C25)	3328827	115 M
C14	3.679	0.003	2537	2575	AK-103 (C25-C36)	12617346	2519 M
C16	4.153	-0.003	4724	2601			
C18	4.613	0.007	15837	21736			
C20	5.139	-0.006	19896	30704			
C22	5.645	0.000	34044	8683			
C24	6.093	-0.002	61753	75894			
C25	6.287	-0.007	69693	75845			
C26	6.479	0.003	82446	145026			
C28	6.806	0.010	109536	70885			
C32	7.423	0.003	139832	72057	JP-4 (Tol-C14)	300105	18
C34	7.743	0.000	100107	33740	BUNKERC (C10-C38)	17679878	2016 M
Filter Peak	8.340	-0.003	64851	46531			
C36	8.148	0.000	72505	20122			
C38	8.674	0.003	48221	21873			
C40	9.303	-0.005	25062	10795			
o-terph	4.788	-0.005	1166582	982289	JET-A (C10-C18)	516850	37
Triacon Surr	7.144	-0.001	743929	800642	JP8 (Tol-C16)	390438	22

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

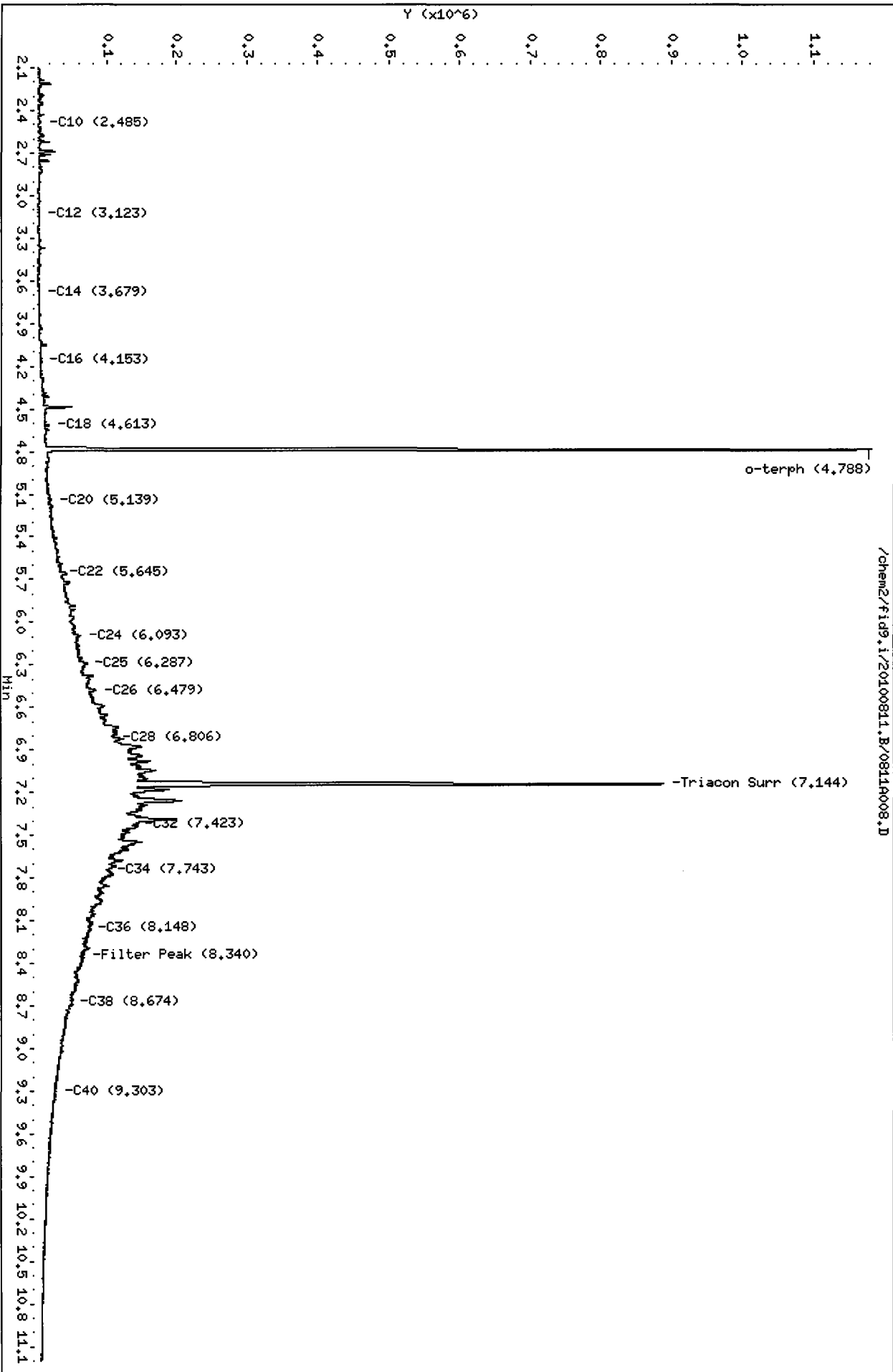
Surrogate	Area	Amount	%Rec
o-Terphenyl	982289	38.1	84.7
Triacontane	800642	40.4	89.7

MS 8/12/10

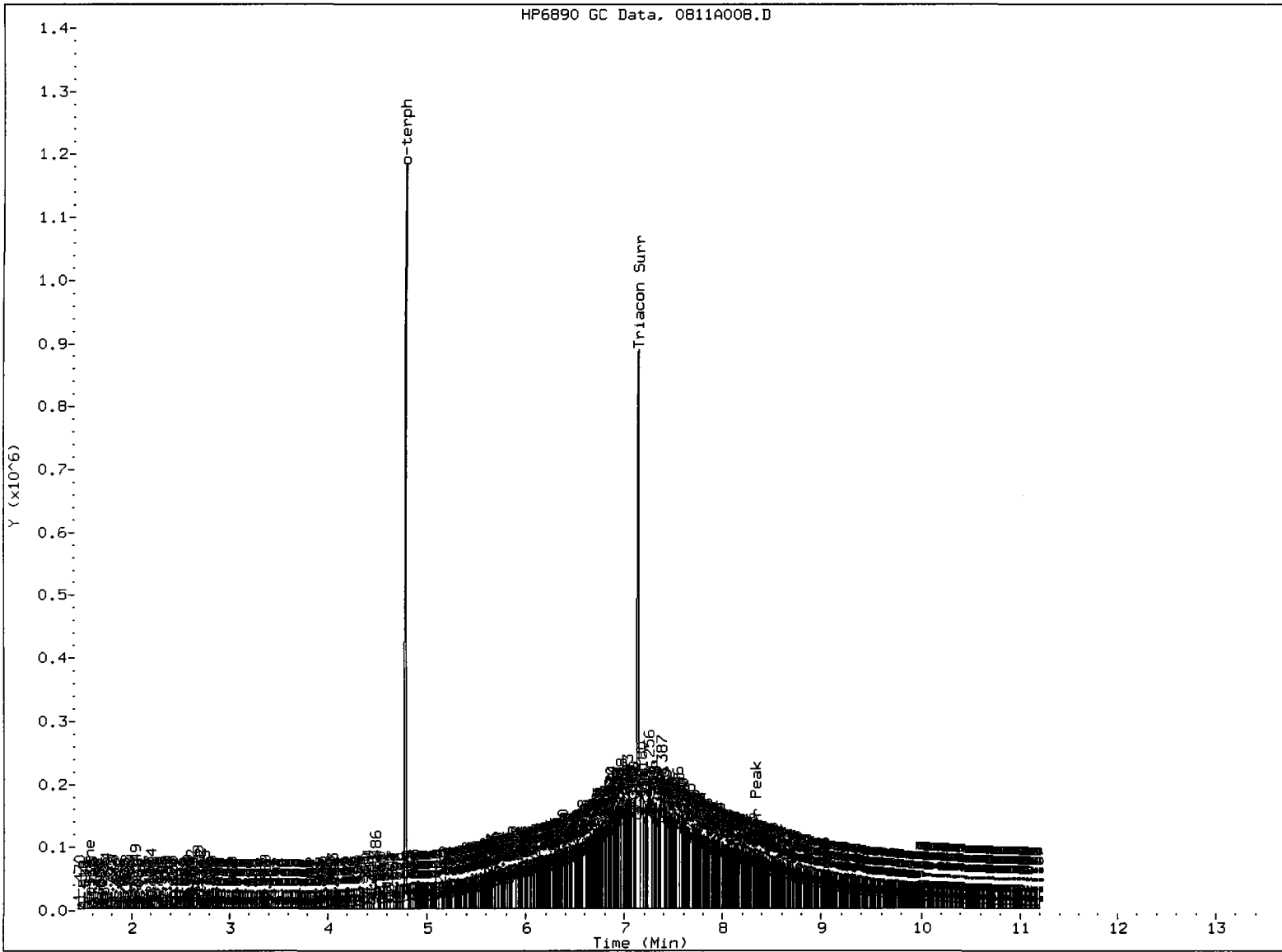
Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811A008.D
Date: 11-AUG-2010 16:15
Client ID: PSB10-4-6-073010
Sample Info: RG781
Column phase: RTX-1

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



/chem2/fid9.i/20100811.B/0811A008.D



MANUAL INTEGRATION

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

Analyst: MS

Date: 8/12/10

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811A009.D
Method: /chem2/fid9.i/20100811.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 08/12/2010

ARI ID: RG78A
Client ID: PSB9A-11-13.5-07301
Injection: 11-AUG-2010 16:36
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.566	0.015	4906	3216	GAS (Tol-C12)	426308	20
C8	1.705	-0.011	2154	1629	DIESEL (C12-C24)	150828	6
C10	2.484	0.003	4214	2940	M.OIL (C24-C38)	152829	12
C12	3.123	0.004	2343	2282	AK-102 (C10-C25)	306587	11
C14	3.687	0.012	1914	1984	AK-103 (C25-C36)	121601	24
C16	4.158	0.002	2691	1871			
C18	4.614	0.007	6812	5078			
C20	5.146	0.001	681	776			
C22	5.639	-0.005	743	857			
C24	6.090	-0.004	770	991			
C25	6.290	-0.005	973	1904			
C26	6.471	-0.004	891	1838			
C28	6.788	-0.009	1028	262			
C32	7.413	-0.006	2868	5539	JP-4 (Tol-C14)	471291	29
C34	7.749	0.006	1724	4691	BUNKERC (C10-C38)	456325	52
Filter Peak	8.339	-0.005	1250	567			
C36	8.134	-0.014	1431	1240			
C38	8.676	0.005	1090	998			
C40	9.301	-0.007	752	505			
o-terph	4.788	-0.005	1167533	966828	JET-A (C10-C18)	270066	20
Triacon Surr	7.130	-0.016	769879	746088	JP8 (Tol-C16)	505225	29

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

Surrogate	Area	Amount	%Rec
o-Terphenyl	966828	37.5	83.4
Triacontane	746088	37.6	83.6

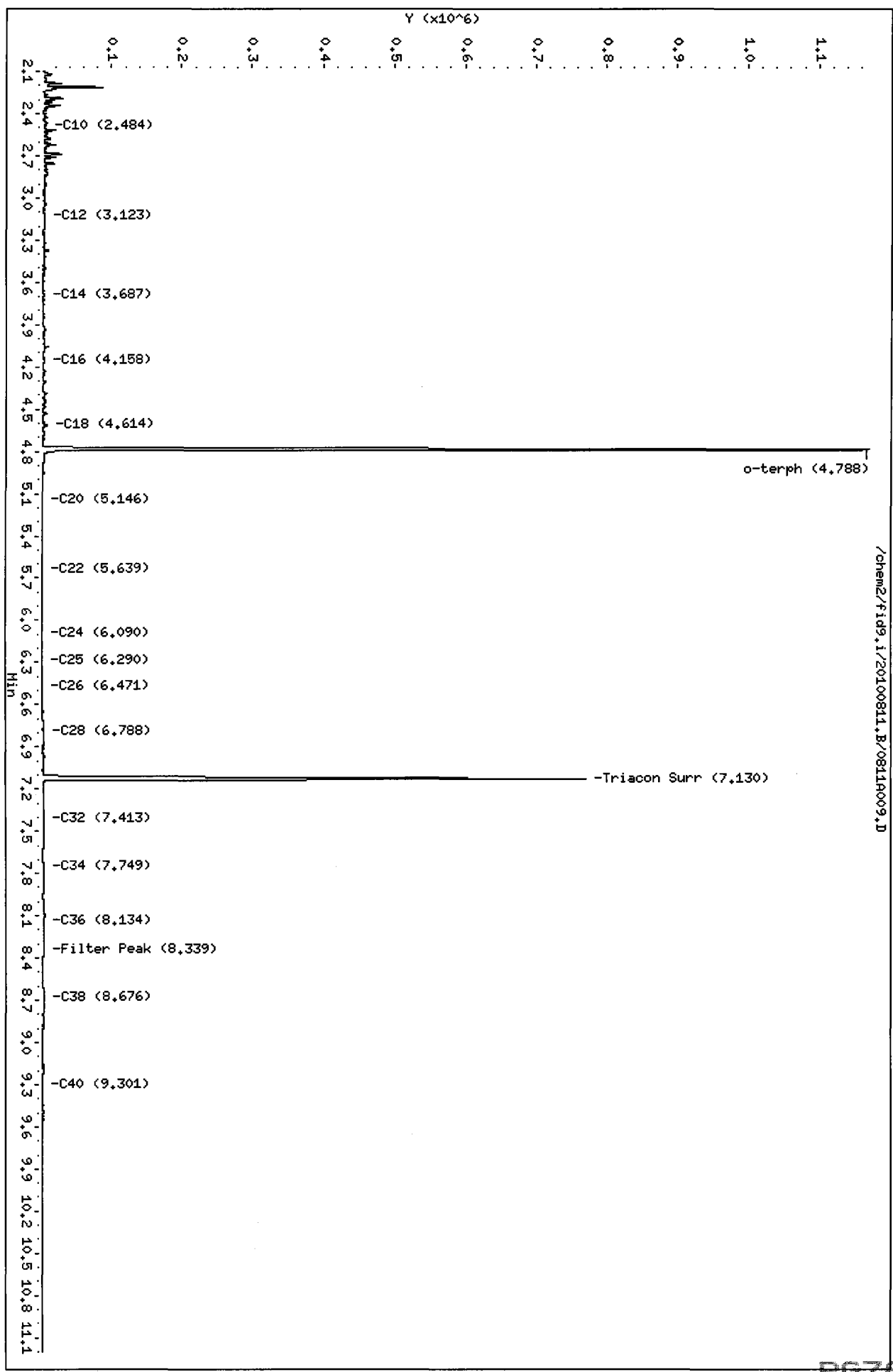
MS 8/12/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811A009.D
Date : 11-AUG-2010 16:36
Client ID: PSB9-11-13,5-07301
Sample Info: RG78A
Column phase: RTX-1

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

/chem2/fid9.i/20100811.B/0811A009.D



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811A010.D
 Method: /chem2/fid9.i/20100811.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 08/12/2010

ARI ID: RG78B
 Client ID: PSB9A-1.5-2-073010
 Injection: 11-AUG-2010 16:58
 Dilution Factor: 1
 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.565	0.014	4325	2896	GAS (Tol-C12)	403405	19
C8	1.705	-0.011	3146	2194	DIESEL (C12-C24)	136822	5
C10	2.485	0.004	4080	2823	M.OIL (C24-C38)	116070	9
C12	3.124	0.005	2248	2174	AK-102 (C10-C25)	291176	10
C14	3.688	0.013	1442	1792	AK-103 (C25-C36)	94075	19
C16	4.157	0.001	1681	908			
C18	4.614	0.008	2955	2366			
C20	5.147	0.002	574	568			
C22	5.639	-0.005	776	895			
C24	6.091	-0.003	570	492			
C25	6.290	-0.005	1237	1610			
C26	6.470	-0.006	561	534			
C28	6.787	-0.009	689	243			
C32	7.421	0.001	2448	4016	JP-4 (Tol-C14)	450082	27
C34	7.757	0.014	1218	2692	BUNKERC (C10-C38)	404776	46
Filter Peak	8.346	0.002	744	277			
C36	8.153	0.005	802	1419			
C38	8.676	0.005	563	478			
C40	9.308	0.000	609	311			
o-terph	4.789	-0.004	1227201	1025420	JET-A (C10-C18)	259952	19
Triacon Surr	7.137	-0.009	789699	794203	JP8 (Tol-C16)	484798	28

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
 NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

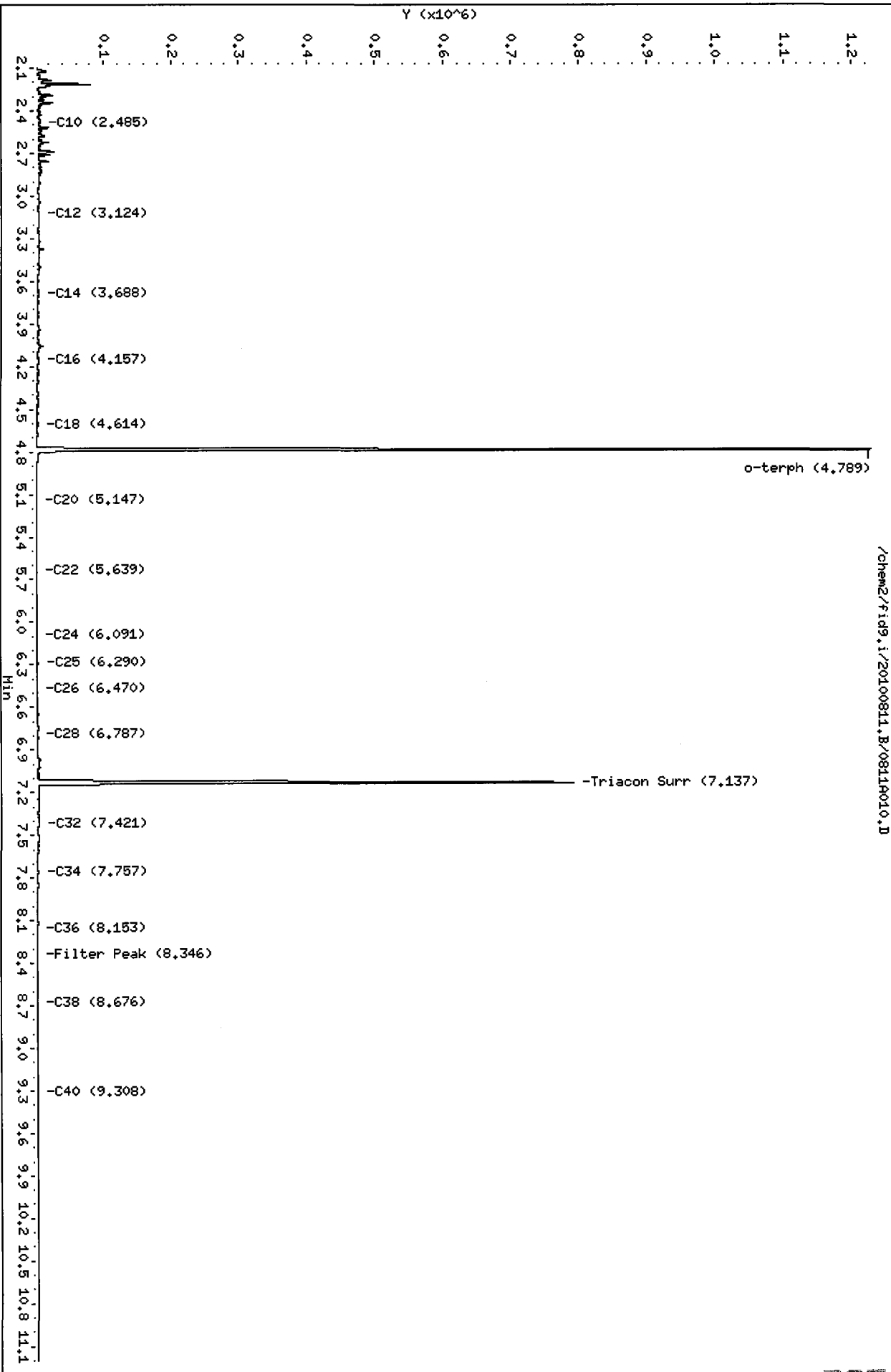
Surrogate	Area	Amount	%Rec
o-Terphenyl	1025420	39.8	88.5
Triacontane	794203	40.0	89.0

MS 8/12/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811A010.D
Date: 11-AUG-2010 16:58
Client ID: PSB99-1.5-2-073010
Sample Info: RG78B
Column phase: RTX-1

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



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811A011.D
Method: /chem2/fid9.i/20100811.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 08/12/2010

ARI ID: RG78C
Client ID: PSB9A-2-4-073010
Injection: 11-AUG-2010 17:20
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.536	-0.015	1416	1613	GAS (Tol-C12)	324073	15
C8	1.708	-0.009	2251	1854	DIESEL (C12-C24)	118254	4
C10	2.486	0.005	3705	2528	M.OIL (C24-C38)	79215	6
C12	3.116	-0.003	1325	831	AK-102 (C10-C25)	256003	9
C14	3.662	-0.014	1031	1433	AK-103 (C25-C36)	63915	13
C16	4.149	-0.007	1510	1755			
C18	4.614	0.008	2782	2438			
C20	5.146	0.000	490	492			
C22	5.639	-0.005	678	703			
C24	6.093	-0.002	503	618			
C25	6.291	-0.004	715	871			
C26	6.471	-0.005	458	723			
C28	6.813	0.017	1064	1703			
C32	7.417	-0.003	2202	3508	JP-4 (Tol-C14)	364865	22
C34	7.754	0.011	1104	3142	BUNKERC (C10-C38)	334146	38
Filter Peak	8.346	0.003	451	106			
C36	8.148	-0.001	788	1400			
C38	8.673	0.002	667	484			
C40	9.305	-0.003	405	378			
o-terph	4.789	-0.005	1182444	1005411	JET-A (C10-C18)	232320	17
Triacon Surr	7.133	-0.012	772539	785620	JP8 (Tol-C16)	395610	22

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

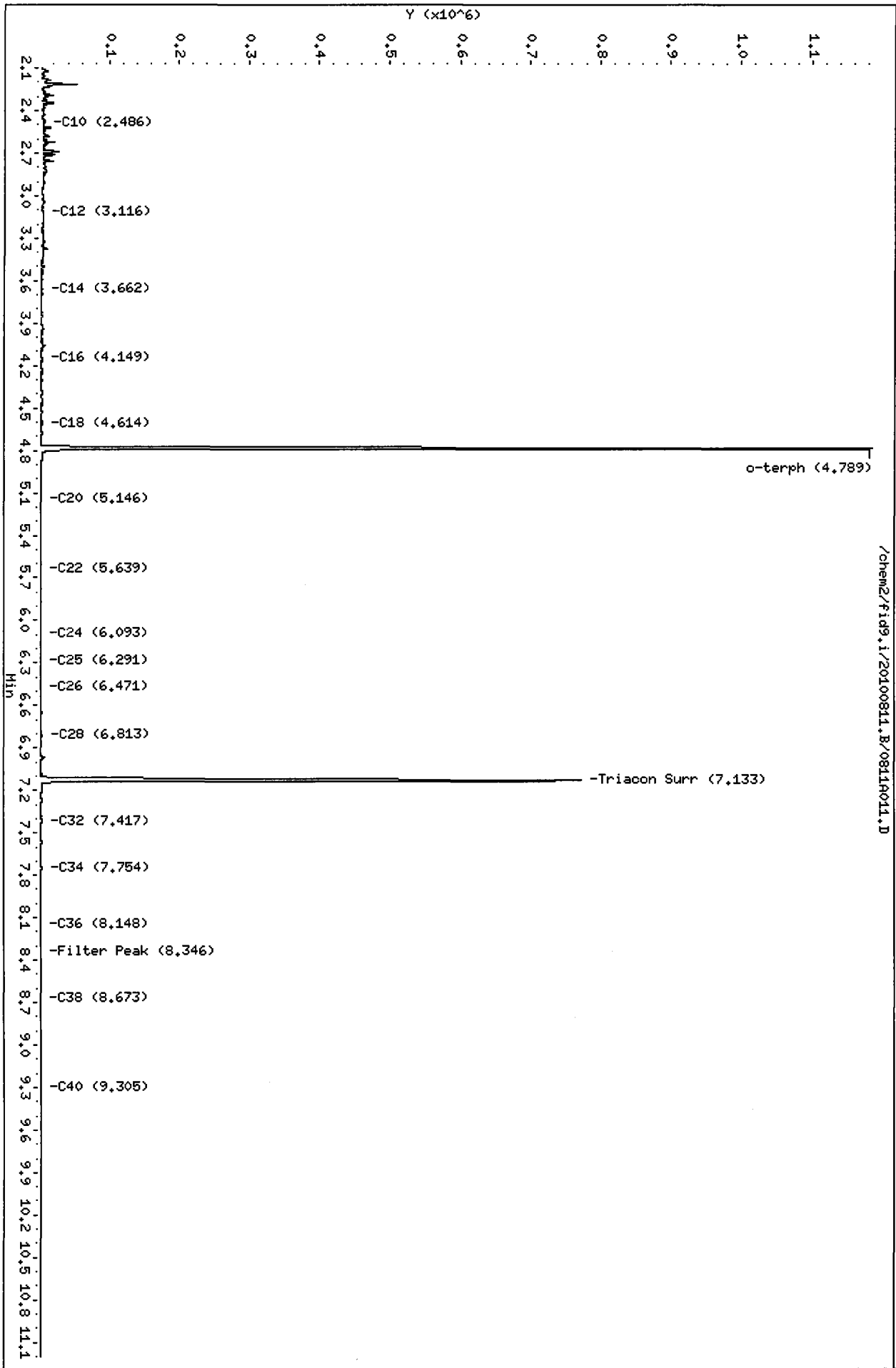
Surrogate	Area	Amount	%Rec
o-Terphenyl	1005411	39.0	86.7
Triacontane	785620	39.6	88.0

MS 8/12/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100814.B/08114014.D
Date : 11-AUG-2010 17:20
Client ID: PSB99-2-4-073010
Sample Info: RC78C
Column phase: RTX-1

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



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811raw.b/0811A012.D ARI ID: RG78D
 Method: /chem2/fid9.i/20100811.B/ftphfid9a.m Client ID: PSB9A-4-6-073010
 Instrument: fid9.i Injection: 11-AUG-2010 17:41
 Operator: MS Dilution Factor: 1
 Report Date: 08/12/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.566	0.015	31347	15770	GAS (Tol-C12)	362186	17
C8	1.706	-0.010	3428	2328	DIESEL (C12-C24)	133195	5
C10	2.485	0.004	3971	2778	M.OIL (C24-C38)	828409	65
C12	3.114	-0.005	1683	1098	AK-102 (C10-C25)	280986	10
C14	3.690	0.014	1162	740	AK-103 (C25-C36)	812375	162
C16	4.159	0.003	1481	835			
C18	4.615	0.009	2351	2123			
C20	5.148	0.003	513	555			
C22	5.642	-0.002	669	736			
C24	6.093	-0.002	570	630			
C25	6.292	-0.002	689	1138			
C26	6.473	-0.003	525	416			
C28	6.784	-0.012	398	91			
C32	7.435	0.015	845	281	JP-4 (Tol-C14)	411318	25
C34	7.738	-0.005	1114	1592	BUNKERC (C10-C38)	1107805	126
Filter Peak	8.348	0.005	515	279			
C36	8.137	-0.012	896	1677			
C38	8.667	-0.004	432	280			
C40	9.303	-0.005	545	470			
o-terph	4.790	-0.003	1153181	957128	JET-A (C10-C18)	253327	18
Triacon Surr	7.165	0.020	1518	361	JP8 (Tol-C16)	445931	25

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
 NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

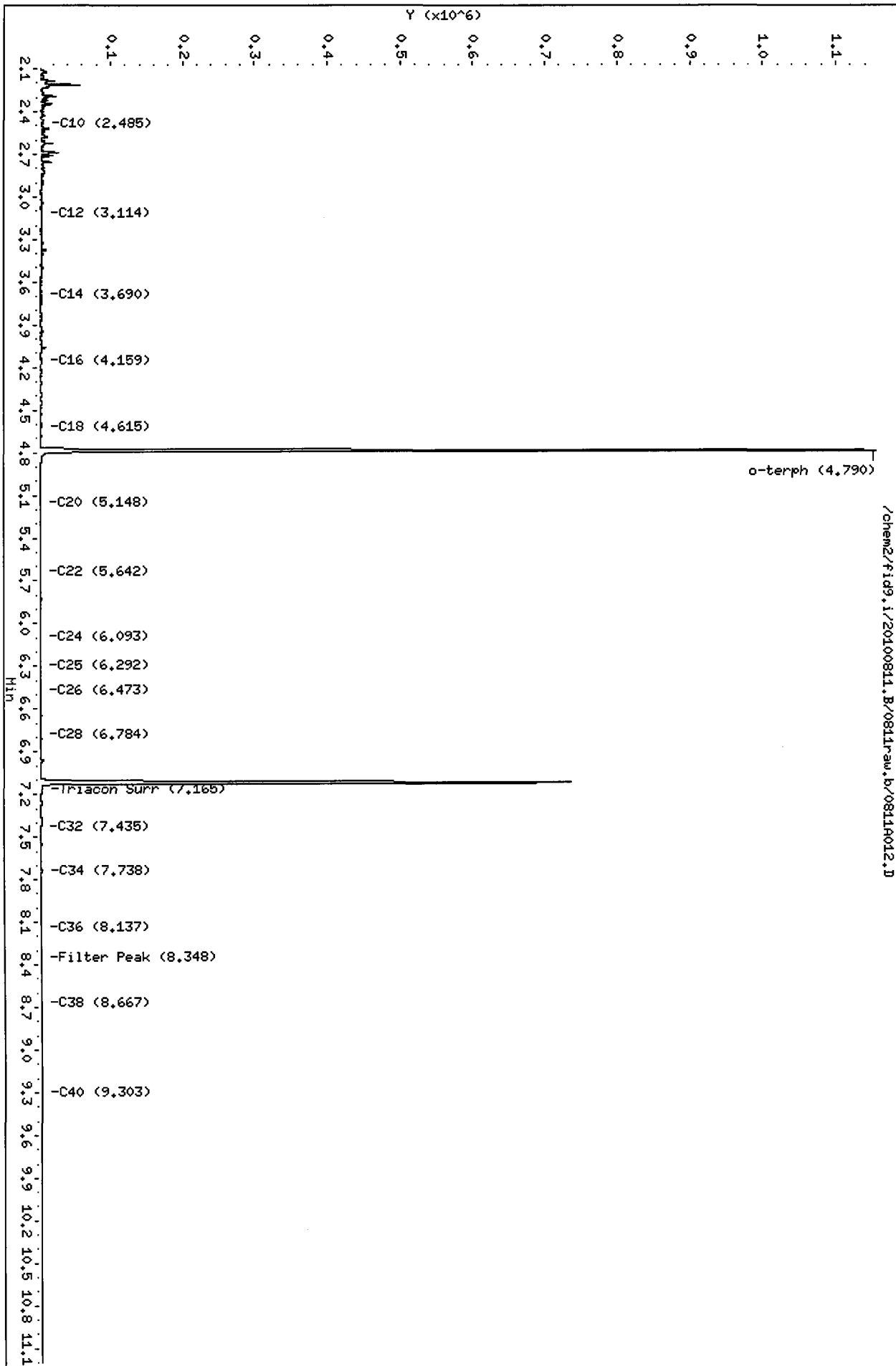
Surrogate	Area	Amount	%Rec
o-Terphenyl	957128	37.2	82.6
Triacontane	361	0.0	0.0

MS 8/12/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811raw.b/0811A012.D
Date: 11-AUG-2010 17:41
Client ID: PSB94-4-6-073010
Sample Info: RG78D
Column phase: RTX-1

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



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811A012.D
Method: /chem2/fid9.i/20100811.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 08/12/2010

ARI ID: RG78D
Client ID: PSB9A-4-6-073010
Injection: 11-AUG-2010 17:41
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.566	0.015	31347	15770	GAS (Tol-C12)	362186	17
C8	1.706	-0.010	3428	2328	DIESEL (C12-C24)	133195	5
C10	2.485	0.004	3971	2778	M.OIL (C24-C38)	84924	7
C12	3.114	-0.005	1683	1098	AK-102 (C10-C25)	280986	10
C14	3.690	0.014	1162	740	AK-103 (C25-C36)	68890	14
C16	4.159	0.003	1481	835			
C18	4.615	0.009	2351	2123			
C20	5.148	0.003	513	555			
C22	5.642	-0.002	669	736			
C24	6.093	-0.002	570	630			
C25	6.292	-0.002	689	1138			
C26	6.473	-0.003	525	416			
C28	6.784	-0.012	398	91			
C32	7.435	0.015	845	281	JP-4 (Tol-C14)	411318	25
C34	7.738	-0.005	1114	1592	BUNKERC (C10-C38)	364320	42
Filter Peak	8.348	0.005	515	279			
C36	8.137	-0.012	896	1677			
C38	8.667	-0.004	432	280			
C40	9.303	-0.005	545	470			
o-terph	4.790	-0.003	1153181	957128	JET-A (C10-C18)	253327	18
Triacon Surr	7.122	-0.023	733995	743846	JP8 (Tol-C16)	445931	25

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

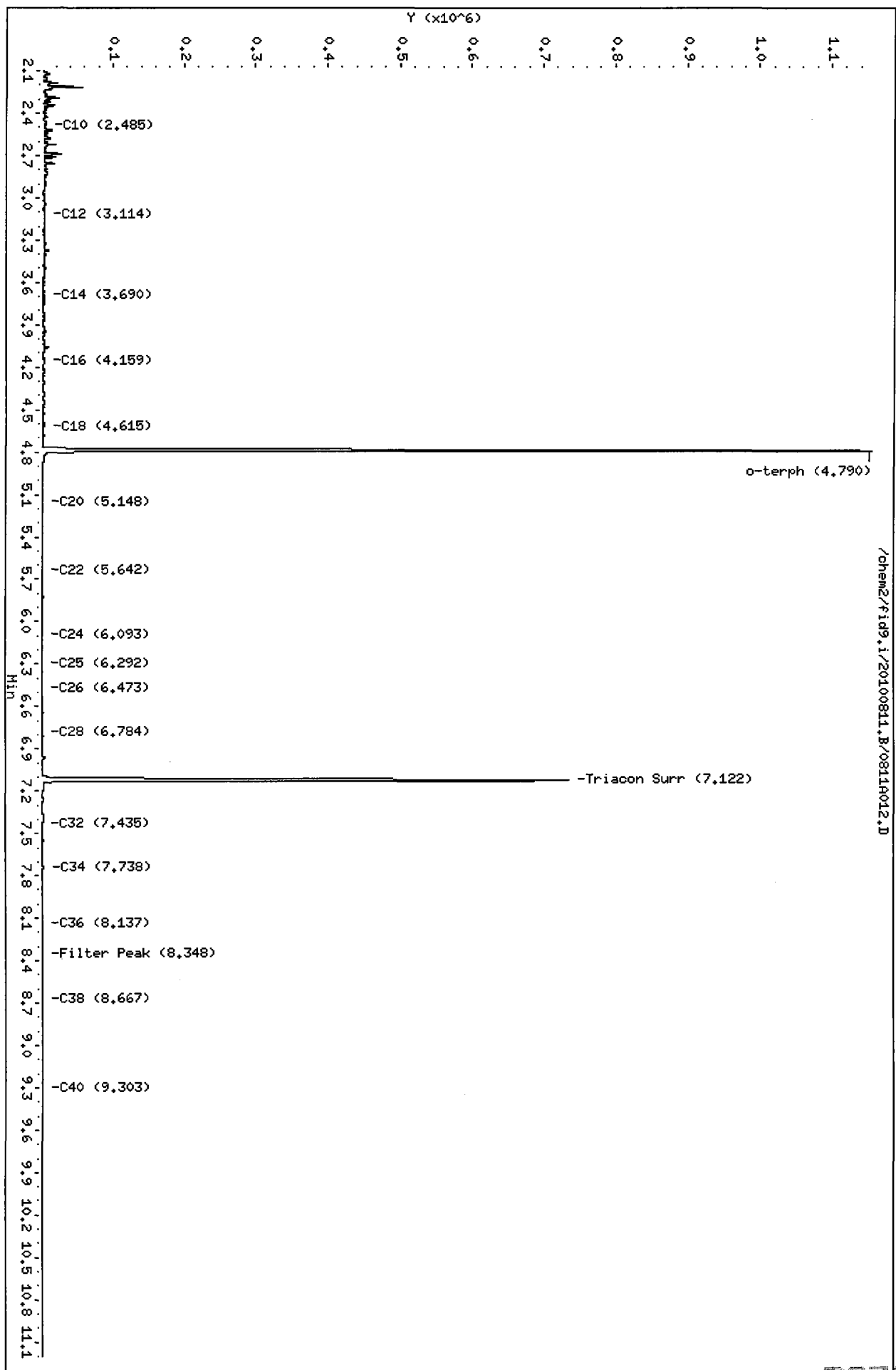
Surrogate	Area	Amount	%Rec
o-Terphenyl	957128	37.2	82.6
Triacontane	743846	37.5	83.3

MS 8/12/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811H012.D
Date: 11-AUG-2010 17:41
Client ID: PSB9A-4-6-073010
Sample Info: RG78D
Column phase: RTX-1

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



/chem2/fid9.i/20100811.B/0811H012.D

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811raw.b/0811A013.D ARI ID: RG78E
 Method: /chem2/fid9.i/20100811.B/ftphfid9a.m Client ID: PSB9A-0-0.5-073010
 Instrument: fid9.i Injection: 11-AUG-2010 18:03
 Operator: MS Dilution Factor: 1
 Report Date: 08/12/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.535	-0.016	1815	1583	GAS (Tol-C12)	372174	18
C8	1.717	0.001	830	289	DIESEL (C12-C24)	302518	11
C10	2.485	0.004	3658	2464	M.OIL (C24-C38)	2617477	205
C12	3.123	0.004	1937	2008	AK-102 (C10-C25)	472337	16
C14	3.683	0.008	2077	2938	AK-103 (C25-C36)	2488699	497
C16	4.147	-0.009	2475	2297			
C18	4.615	0.009	3178	2771			
C20	5.142	-0.004	3401	4518			
C22	5.656	0.012	7687	10075			
C24	6.091	-0.004	15403	20401			
C25	6.285	-0.009	56480	57136			
C26	6.470	-0.006	23841	32308			
C28	6.811	0.015	44622	52539			
C32	7.407	-0.013	21349	43779	JP-4 (Tol-C14)	432212	26
C34	7.749	0.005	7516	6192	BUNKERC (C10-C38)	3060626	349
Filter Peak	8.334	-0.009	3593	2447			
C36	8.150	0.002	4360	1948			
C38	8.671	-0.001	2294	503			
C40	9.316	0.008	1405	1198			
o-terph	4.789	-0.004	1160170	929275	JET-A (C10-C18)	270482	20
Triacon Surr	7.160	0.015	57827	70299	JP8 (Tol-C16)	474868	27

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
 NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

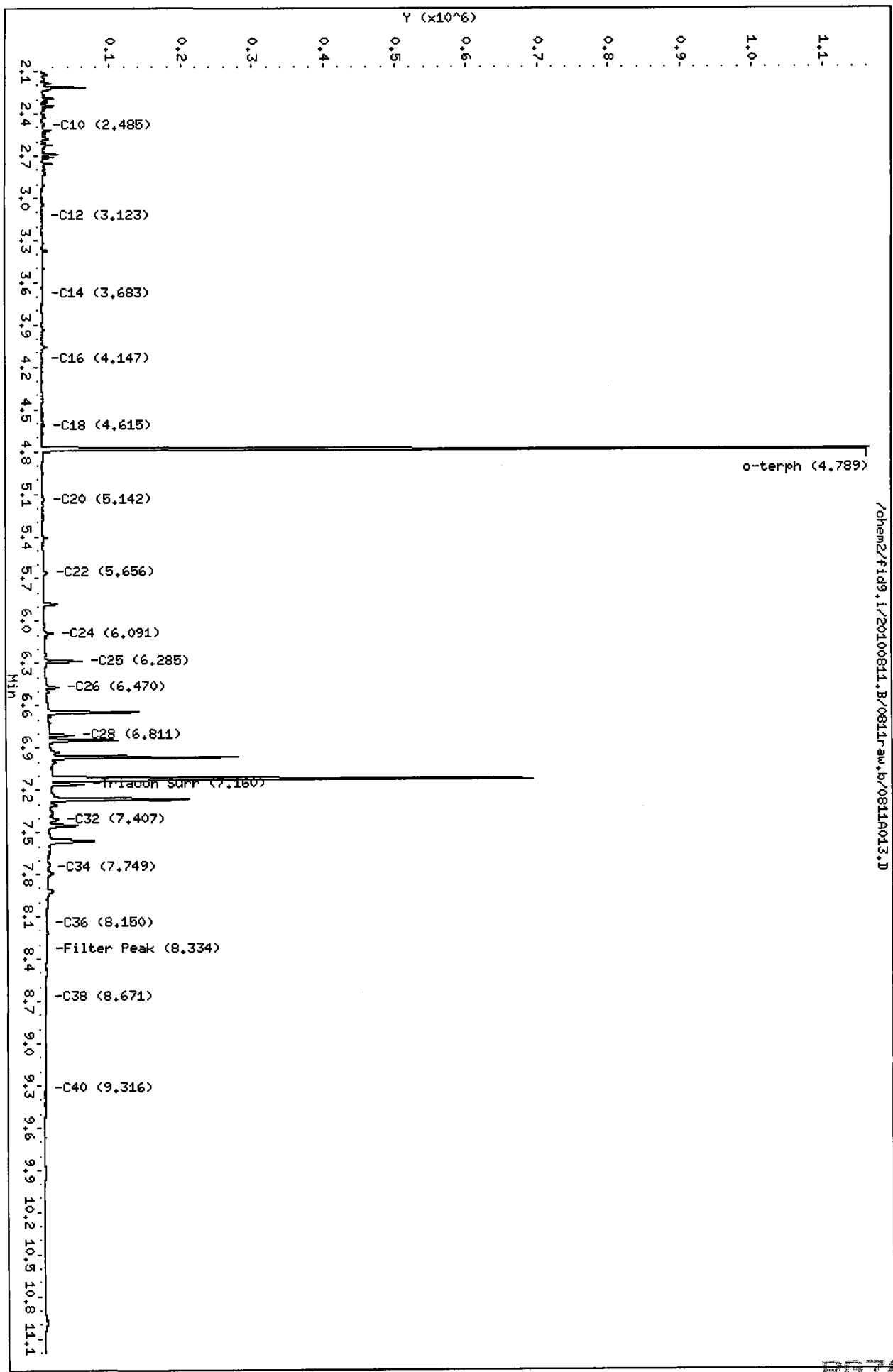
Surrogate	Area	Amount	%Rec
o-Terphenyl	929275	36.1	80.2
Triacontane	70299	3.5	7.9

MS 8/12/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811raw.b/0811A013.D
Date : 11-AUG-2010 18:03
Client ID: PSB99-0-0-5-073010
Sample Info: RG78E
Column phase: RTX-1

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



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811A013.D
Method: /chem2/fid9.i/20100811.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 08/12/2010

ARI ID: RG78E
Client ID: PSB9A-0-0.5-073010
Injection: 11-AUG-2010 18:03
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.535	-0.016	1815	1583	GAS (Tol-C12)	372174	18
C8	1.717	0.001	830	289	DIESEL (C12-C24)	302518	11
C10	2.485	0.004	3658	2464	M.OIL (C24-C38)	1983627	155
C12	3.123	0.004	1937	2008	AK-102 (C10-C25)	472337	16
C14	3.683	0.008	2077	2938	AK-103 (C25-C36)	1854849	370 M
C16	4.147	-0.009	2475	2297			
C18	4.615	0.009	3178	2771			
C20	5.142	-0.004	3401	4518			
C22	5.656	0.012	7687	10075			
C24	6.091	-0.004	15403	20401			
C25	6.285	-0.009	56480	57136			
C26	6.470	-0.006	23841	32308			
C28	6.811	0.015	44622	52539			
C32	7.407	-0.013	21349	43779	JP-4 (Tol-C14)	432212	26
C34	7.749	0.005	7516	6192	BUNKERC (C10-C38)	2426775	277 M
Filter Peak	8.334	-0.009	3593	2447			
C36	8.150	0.002	4360	1948			
C38	8.671	-0.001	2294	503			
C40	9.316	0.008	1405	1198			
o-terph	4.789	-0.004	1160170	929275	JET-A (C10-C18)	270482	20
Triacon Surr	7.126	-0.019	675295	704429	JP8 (Tol-C16)	474868	27

M Indicates manual integration within range.

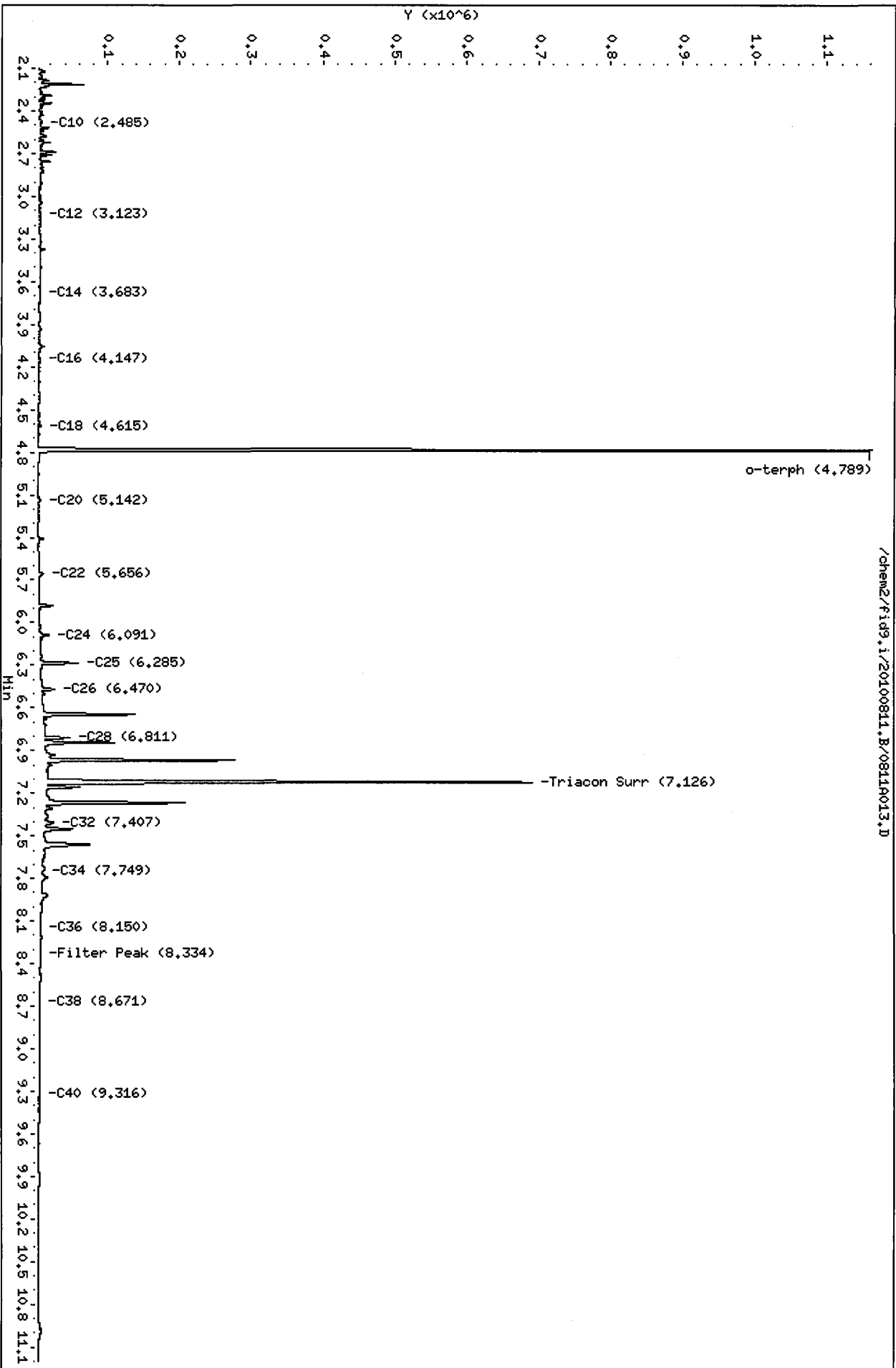
Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

Surrogate	Area	Amount	%Rec
o-Terphenyl	929275	36.1	80.2
Triacotane	704429	35.5	78.9

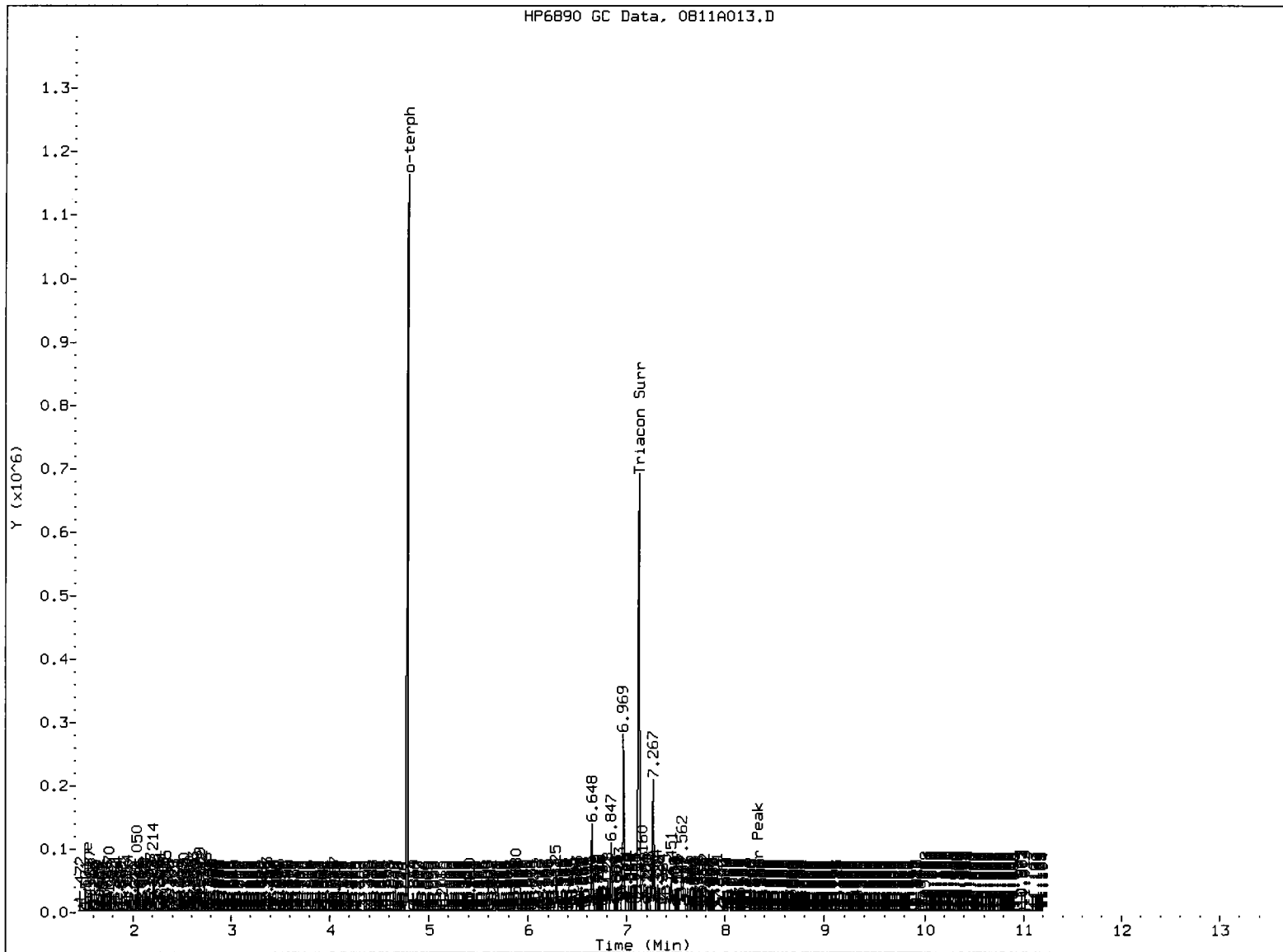
Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811A013.D
Date: 11-AUG-2010 18:03
Client ID: PSB99-0-0.5-073010
Sample Info: RG78E
Column phase: RTX-1

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



HP6890 GC Data, 0811A013.D



MANUAL INTEGRATION

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

Analyst: MS

Date: 8/12/10

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811raw.b/0811A014.D ARI ID: RG78F
 Method: /chem2/fid9.i/20100811.B/ftphfid9a.m Client ID: PSB10-0-0.5-073010
 Instrument: fid9.i Injection: 11-AUG-2010 18:25
 Operator: MS Dilution Factor: 1
 Report Date: 08/12/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.566	0.015	2671	2128	GAS (Tol-C12)	302902	14
C8	1.719	0.003	909	369	DIESEL (C12-C24)	5765571	219
C10	2.486	0.004	3832	3132	M.OIL (C24-C38)	36214006	2832
C12	3.122	0.003	2127	1269	AK-102 (C10-C25)	6596785	227
C14	3.677	0.002	3041	3289	AK-103 (C25-C36)	31447461	6278
C16	4.166	0.010	12160	12778			
C18	4.616	0.009	28067	41607			
C20	5.143	-0.003	38130	46487			
C22	5.645	0.001	66677	17162			
C24	6.093	-0.002	112642	31188			
C25	6.298	0.003	147833	93946			
C26	6.472	-0.004	173882	158649			
C28	6.790	-0.006	301507	314362			
C32	7.430	0.010	365225	194455	JP-4 (Tol-C14)	362371	22
C34	7.740	-0.003	278097	275486	BUNKERC (C10-C38)	42108111	4801
Filter Peak	8.348	0.005	155728	195099			
C36	8.148	-0.001	181294	96095			
C38	8.668	-0.003	102904	44027			
C40	9.313	0.005	47421	73856			
o-terph	4.790	-0.003	1192283	1063644	JET-A (C10-C18)	884274	64
Triacon Surr	7.155	0.010	966792	2051743	JP8 (Tol-C16)	539994	31

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
 NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

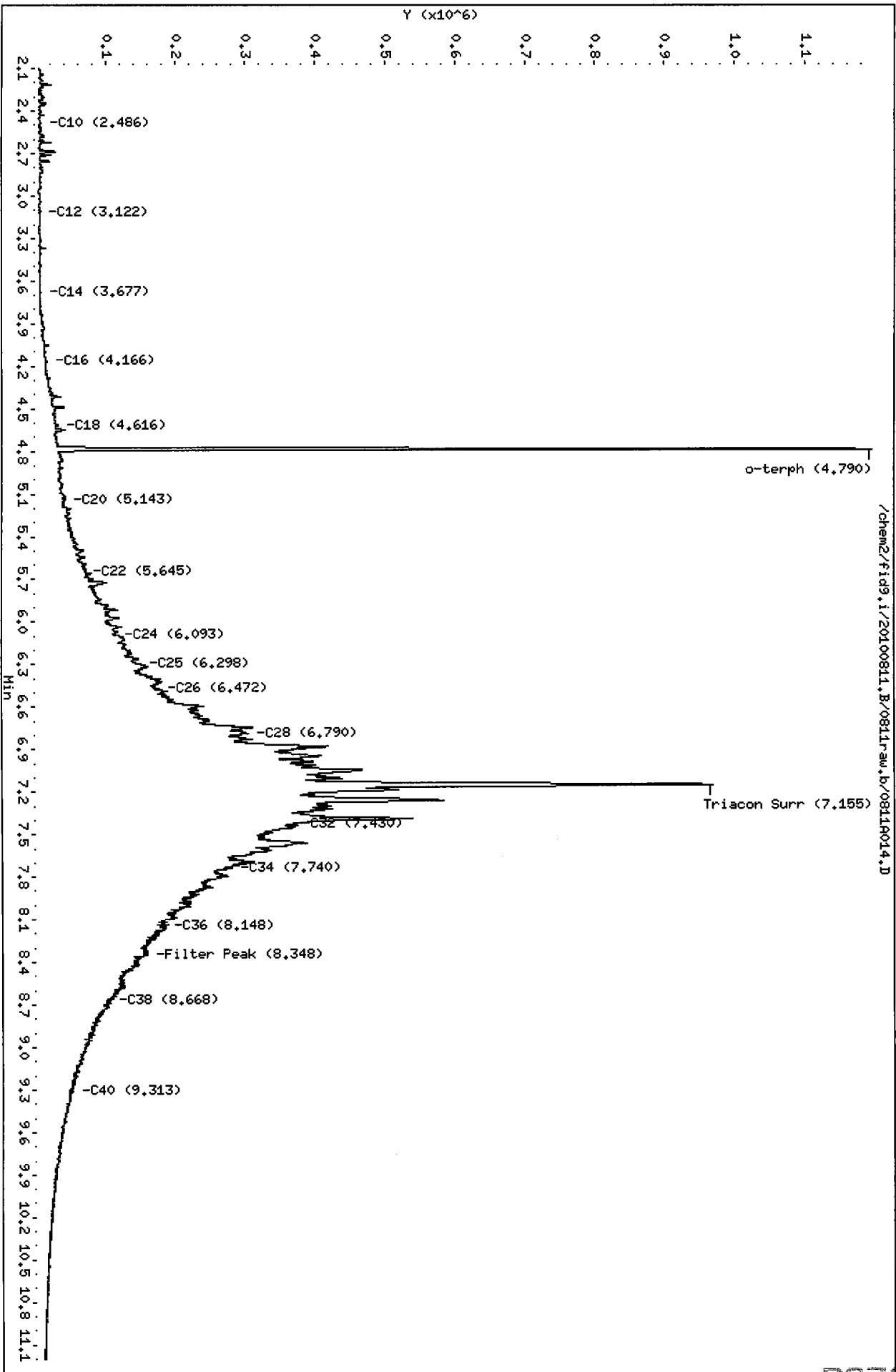
Surrogate	Area	Amount	%Rec
o-Terphenyl	1063644	41.3	91.7
Triacontane	2051743	103.5	229.9

mw 8/12/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811raw.b/0811A014.D
Date: 11-AUG-2010 18:25
Client ID: PSB10-0-0.5-073010
Sample Info: RG78F
Column phase: RTX-1

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



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811A014.D
Method: /chem2/fid9.i/20100811.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 08/12/2010

ARI ID: RG78F
Client ID: PSB10-0-0.5-073010
Injection: 11-AUG-2010 18:25
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.566	0.015	2671	2128	GAS (Tol-C12)	302902	14
C8	1.719	0.003	909	369	DIESEL (C12-C24)	5845940	222
C10	2.486	0.004	3832	3132	M.OIL (C24-C38)	37569285	2938
C12	3.122	0.003	2127	1269	AK-102 (C10-C25)	6677153	230 M
C14	3.677	0.002	3041	3289	AK-103 (C25-C36)	32802740	6549 M
C16	4.166	0.010	12160	12778			
C18	4.616	0.009	28067	41607			
C20	5.143	-0.003	38130	46487			
C22	5.645	0.001	66677	17162			
C24	6.093	-0.002	112642	31188			
C25	6.298	0.003	147833	93946			
C26	6.472	-0.004	173882	158649			
C28	6.790	-0.006	301507	314362			
C32	7.430	0.010	365225	194455	JP-4 (Tol-C14)	362371	22
C34	7.740	-0.003	278097	275486	BUNKERC (C10-C38)	43543758	4965 M
Filter Peak	8.348	0.005	155728	195099			
C36	8.148	-0.001	181294	96095			
C38	8.668	-0.003	102904	44027			
C40	9.313	0.005	47421	73856			
o-terph	4.790	-0.003	1163813	983830	JET-A (C10-C18)	884274	64
Triacon Surr	7.155	0.010	524282	705156	JP8 (Tol-C16)	539994	31

M Indicates manual integration within range.

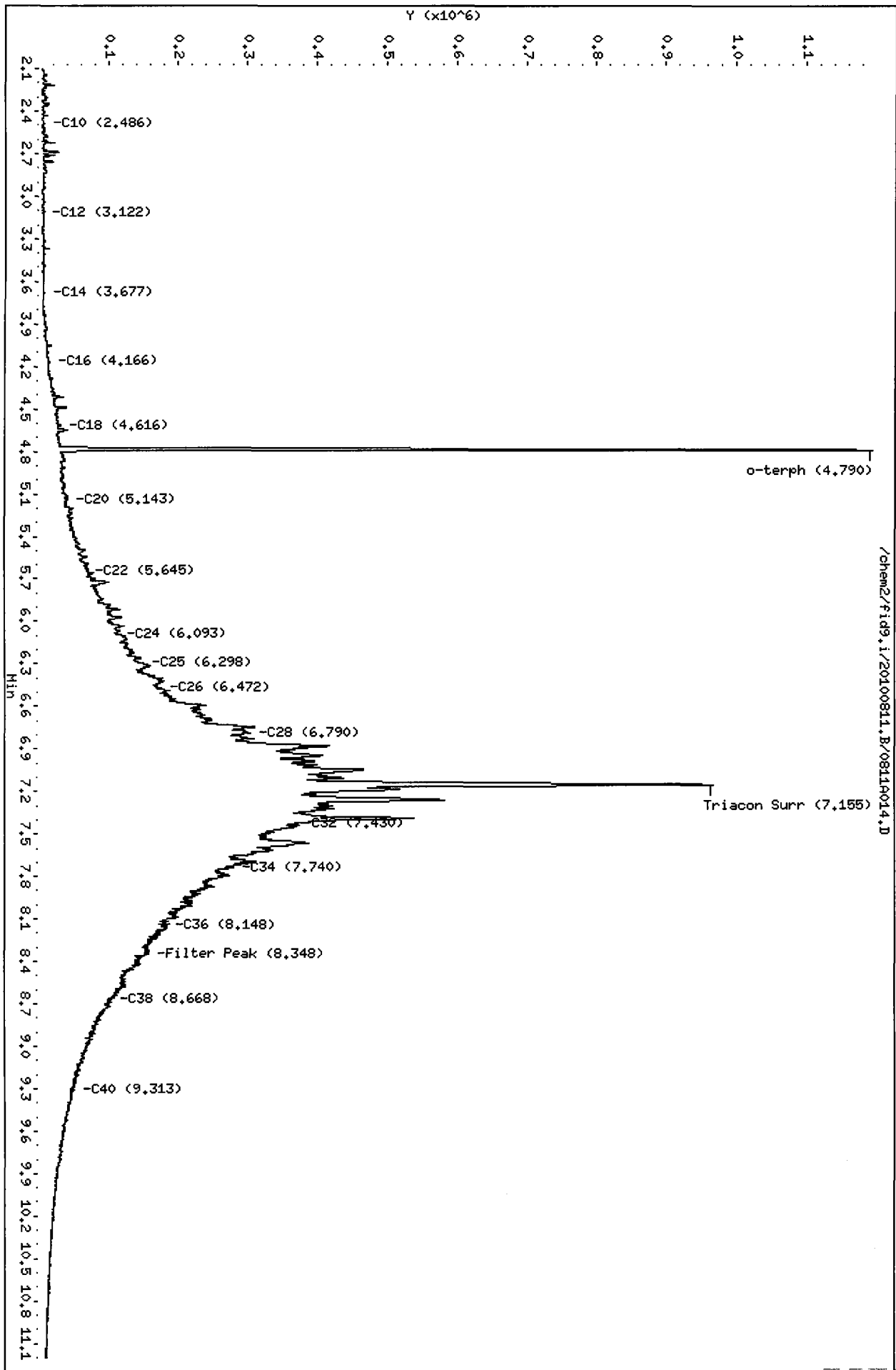
Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

Surrogate	Area	Amount	%Rec
o-Terphenyl	983830	38.2	84.9
Triacontane	705156	35.6	79.0

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

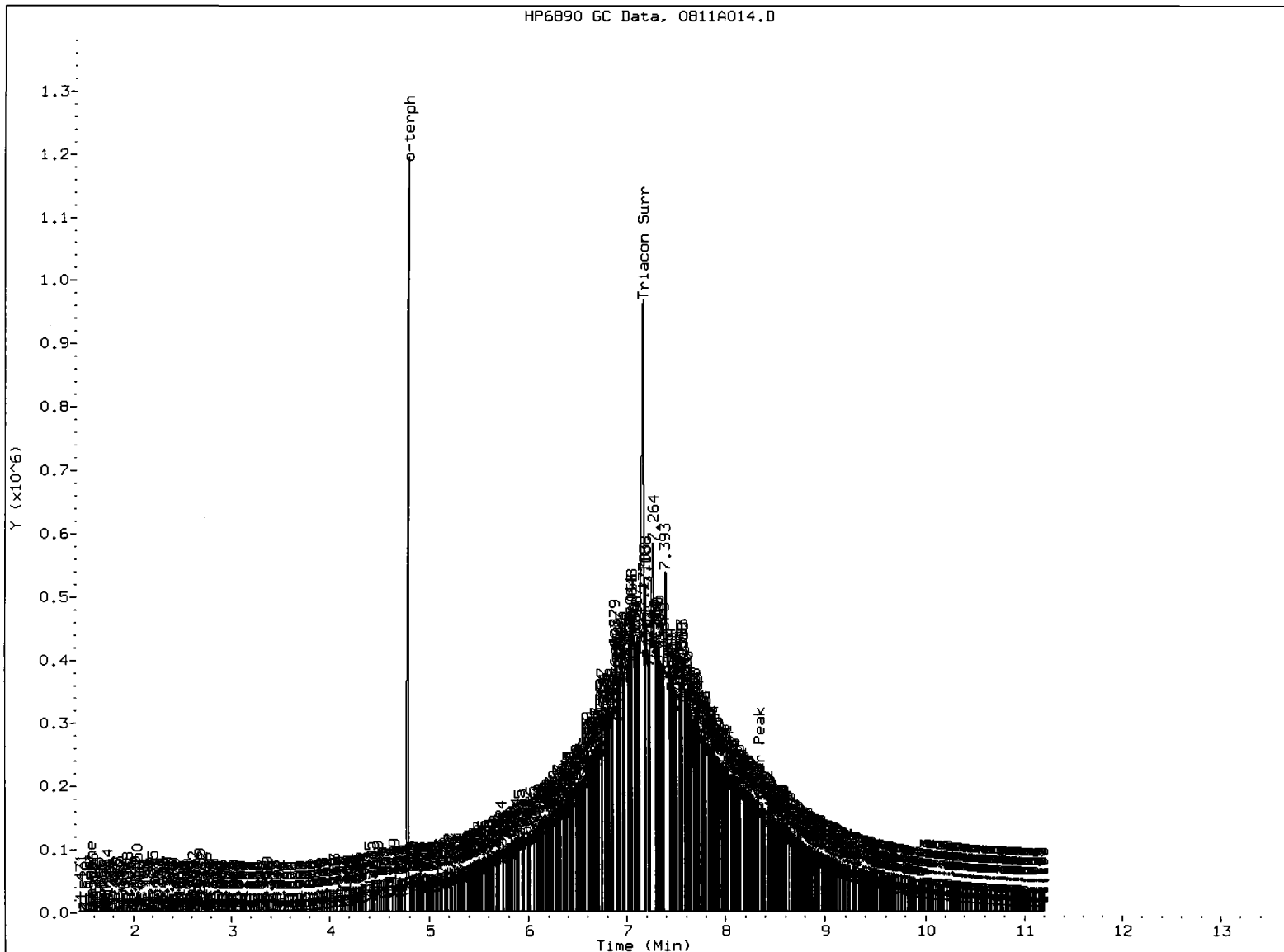
Data File: /chem2/fid9.i/20100811.B/0811A014.D
Date: 11-AUG-2010 18:25
Client ID: PSB10-0-0.5-073010
Sample Info: RC78F
Column phase: RTX-1

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



/chem2/fid9.i/20100811.B/0811A014.D

HP6890 GC Data, 0811A014.D



MANUAL INTEGRATION

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

Analyst: *MS*

Date: *8/12/10*

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811raw.b/0811A015.D ARI ID: RG78G
 Method: /chem2/fid9.i/20100811.B/ftphfid9a.m Client ID: PSB10-1.5-2-073010
 Instrument: fid9.i Injection: 11-AUG-2010 18:46
 Operator: MS Dilution Factor: 1
 Report Date: 08/12/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.565	0.014	7677	4301	GAS (Tol-C12)	413469	20
C8	1.705	-0.011	1352	884	DIESEL (C12-C24)	880193	33
C10	2.486	0.005	4827	3604	M.OIL (C24-C38)	3359290	263
C12	3.124	0.005	2084	2063	AK-102 (C10-C25)	1155664	40
C14	3.685	0.009	2041	2568	AK-103 (C25-C36)	3051721	609
C16	4.157	0.002	2833	1748			
C18	4.614	0.008	7545	7671			
C20	5.141	-0.005	5535	7673			
C22	5.643	-0.002	9587	1705			
C24	6.091	-0.003	18093	28127			
C25	6.289	-0.006	20195	27175			
C26	6.472	-0.004	22065	37378			
C28	6.798	0.001	25475	7548			
C32	7.435	0.015	18396	5093	JP-4 (Tol-C14)	466791	28
C34	7.744	0.001	14207	13935	BUNKERC (C10-C38)	4427691	505
Filter Peak	8.342	-0.001	8011	3818			
C36	8.151	0.002	9849	3870			
C38	8.663	-0.008	6861	5603			
C40	9.301	-0.007	3236	1076			
o-terph	4.791	-0.003	1284287	1070905	JET-A (C10-C18)	388669	28
Triacon Surr	7.148	0.002	27410	6516	JP8 (Tol-C16)	517384	29

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
 NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

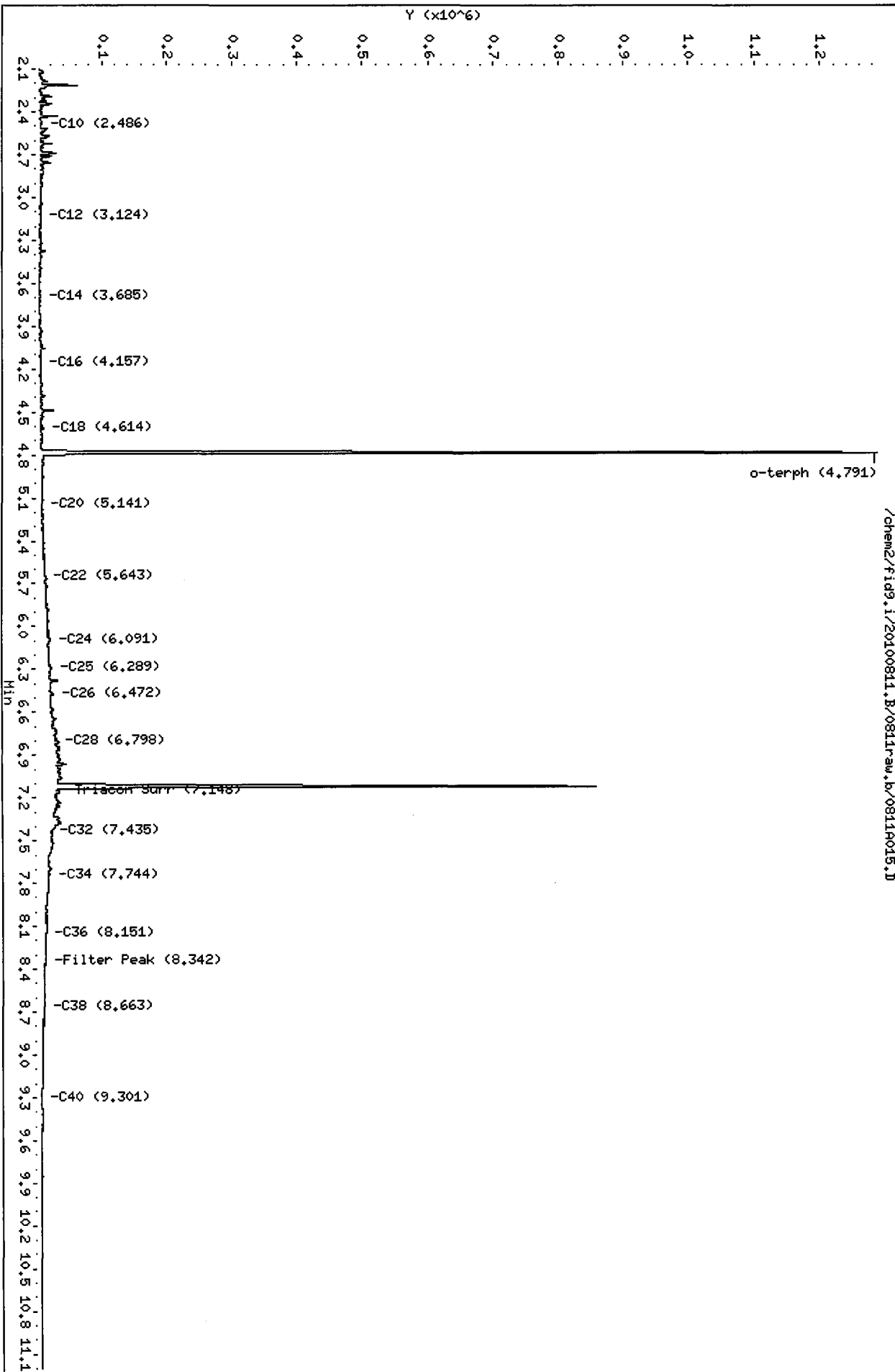
Surrogate	Area	Amount	%Rec
o-Terphenyl	1070905	41.6	92.4
Triacontane	6516	0.3	0.7

ms 8/12/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811raw.b/0811A015.D
Date : 11-AUG-2010 18:46
Client ID: PSB10-1.5-2-073010
Sample Info: RG78C
Column phase: RTX-1

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



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811A015.D
Method: /chem2/fid9.i/20100811.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 08/12/2010

ARI ID: RG78G
Client ID: PSB10-1.5-2-073010
Injection: 11-AUG-2010 18:46
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.565	0.014	7677	4301	GAS (Tol-C12)	413469	20
C8	1.705	-0.011	1352	884	DIESEL (C12-C24)	900013	34
C10	2.486	0.005	4827	3604	M.OIL (C24-C38)	2549092	199
C12	3.124	0.005	2084	2063	AK-102 (C10-C25)	1175484	40 M
C14	3.685	0.009	2041	2568	AK-103 (C25-C36)	2241522	447 M
C16	4.157	0.002	2833	1748			
C18	4.614	0.008	7545	7671			
C20	5.141	-0.005	5535	7673			
C22	5.643	-0.002	9587	1705			
C24	6.091	-0.003	18093	28127			
C25	6.289	-0.006	20195	27175			
C26	6.472	-0.004	22065	37378			
C28	6.798	0.001	25475	7548			
C32	7.435	0.015	18396	5093	JP-4 (Tol-C14)	466791	28
C34	7.744	0.001	14207	13935	BUNKERC (C10-C38)	3637313	415 M
Filter Peak	8.342	-0.001	8011	3818			
C36	8.151	0.002	9849	3870			
C38	8.663	-0.008	6861	5603			
C40	9.301	-0.007	3236	1076			
o-terph	4.791	-0.003	1278977	1051175	JET-A (C10-C18)	388669	28
Triacon Surr	7.128	-0.017	827011	817261	JP8 (Tol-C16)	517384	29

M Indicates manual integration within range.

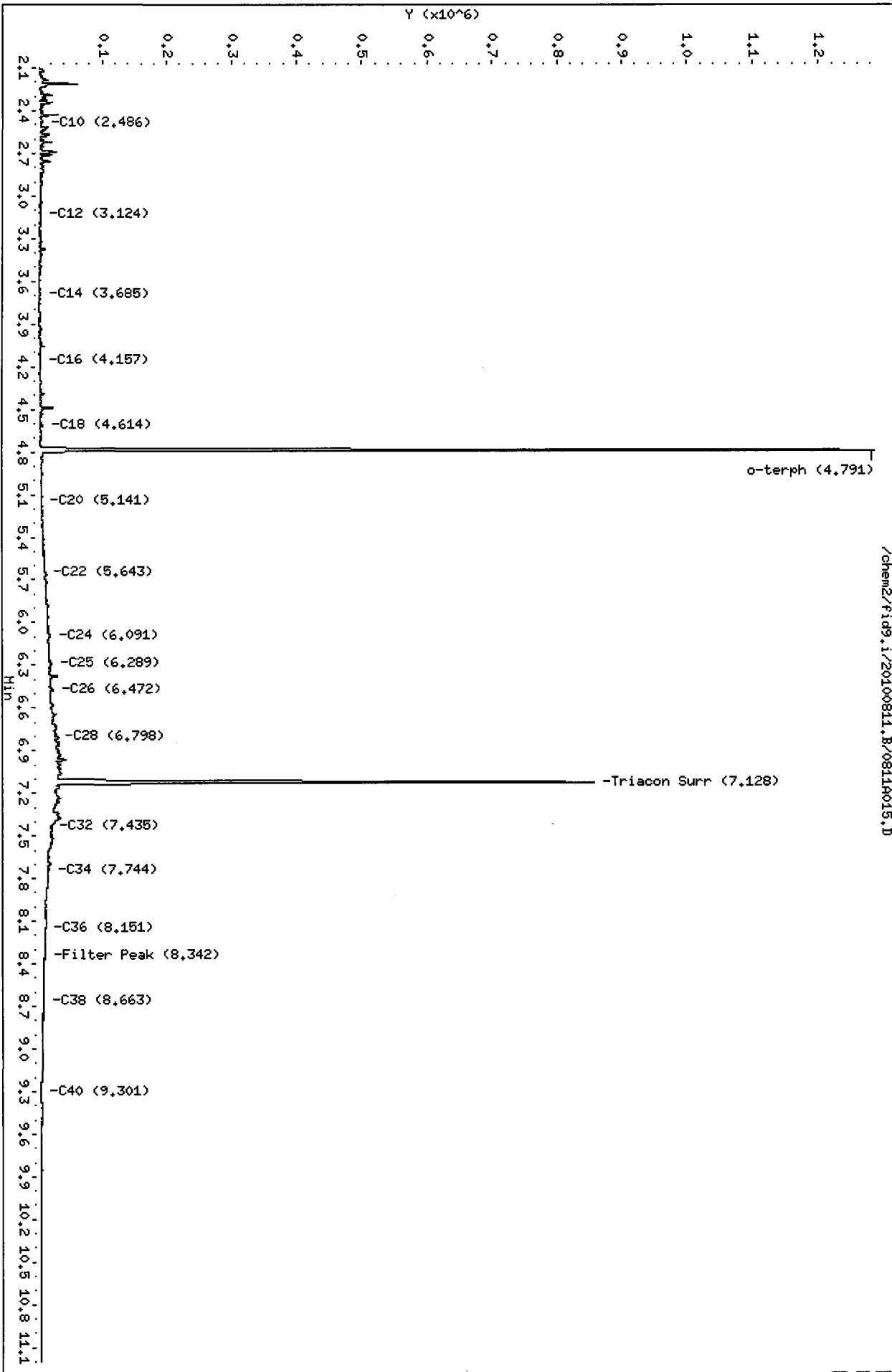
Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1051175	40.8	90.7
Triacontane	817261	41.2	91.6

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

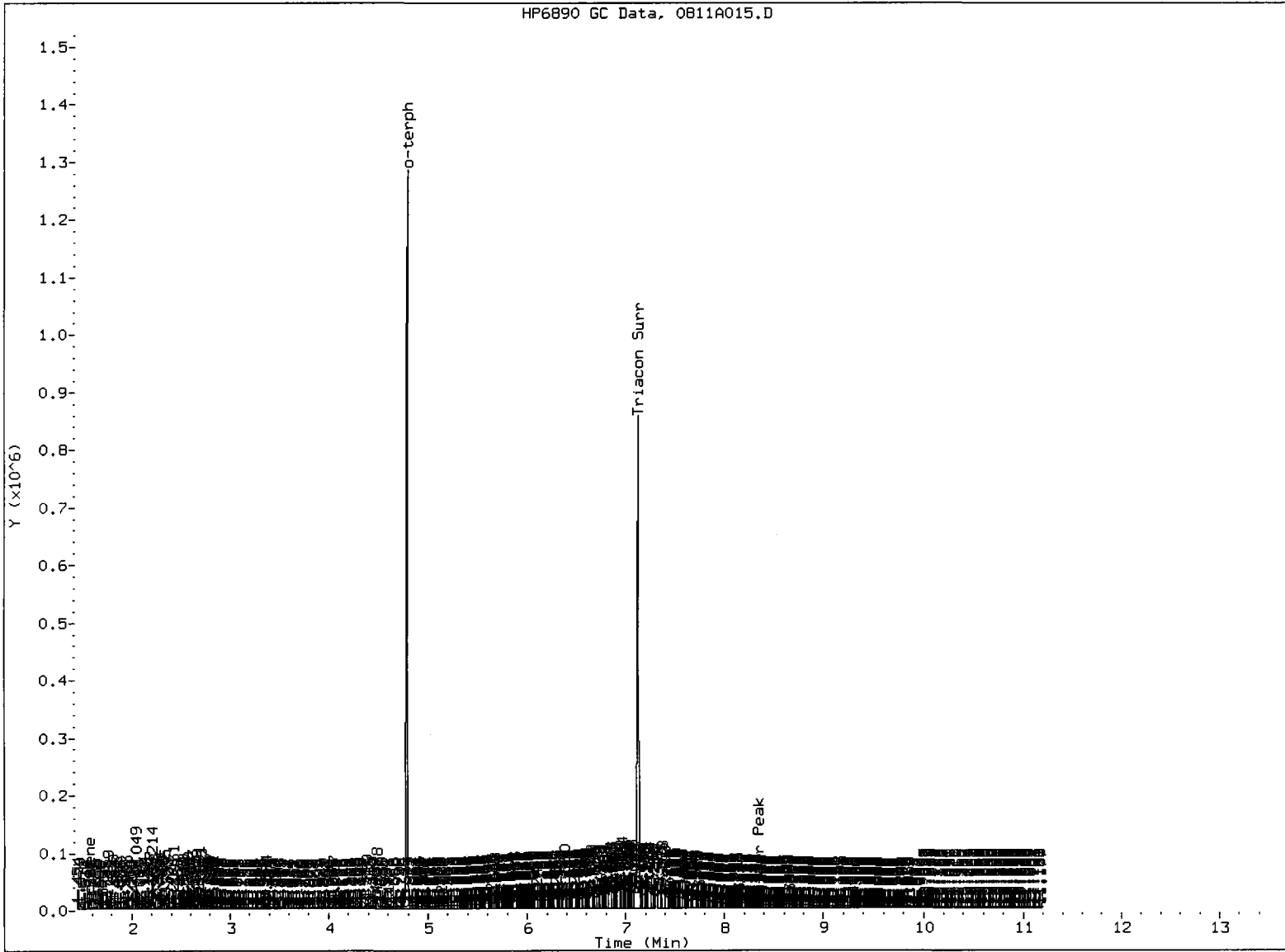
Data File: /chem2/fid9.i/20100811.B/0811A015.D
Date: 11-AUG-2010 18:46
Client ID: PSB10-1.5-2-073010
Sample Info: RG78C
Column phase: RTX-1

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



/chem2/fid9.i/20100811.B/0811A015.D

HP6890 GC Data, 0811A015.D



MANUAL INTEGRATION

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

Analyst: Ms

Date: 8/12/10

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811raw.b/0811A016.D ARI ID: RG78H
 Method: /chem2/fid9.i/20100811.B/ftphfid9a.m Client ID: PSB10-2-4-073010
 Instrument: fid9.i Injection: 11-AUG-2010 19:08
 Operator: MS Dilution Factor: 1
 Report Date: 08/12/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.537	-0.014	1642	1665	GAS (Tol-C12)	504031	24
C8	1.721	0.005	897	375	DIESEL (C12-C24)	1576255	60
C10	2.486	0.004	5665	4302	M.OIL (C24-C38)	5775806	452
C12	3.123	0.004	3598	3139	AK-102 (C10-C25)	2004725	69
C14	3.682	0.006	2283	2805	AK-103 (C25-C36)	5183069	1035
C16	4.146	-0.010	3480	3710			
C18	4.616	0.009	7310	10163			
C20	5.141	-0.005	9916	7444			
C22	5.638	-0.006	18719	14396			
C24	6.093	-0.002	31273	47145			
C25	6.289	-0.006	34420	52845			
C26	6.471	-0.005	41756	42208			
C28	6.798	0.001	49313	11658			
C32	7.423	0.003	39981	27284	JP-4 (Tol-C14)	565950	35
C34	7.737	-0.006	26860	33299	BUNKERC (C10-C38)	7585609	865
Filter Peak	8.344	0.001	15041	12207			
C36	8.155	0.006	17703	11683			
C38	8.676	0.004	10211	5201			
C40	9.310	0.002	6405	2144			
o-terph	4.791	-0.003	1253835	1091499	JET-A (C10-C18)	512630	37
Triacon Surr	7.160	0.015	62144	45714	JP8 (Tol-C16)	631088	36

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
 NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

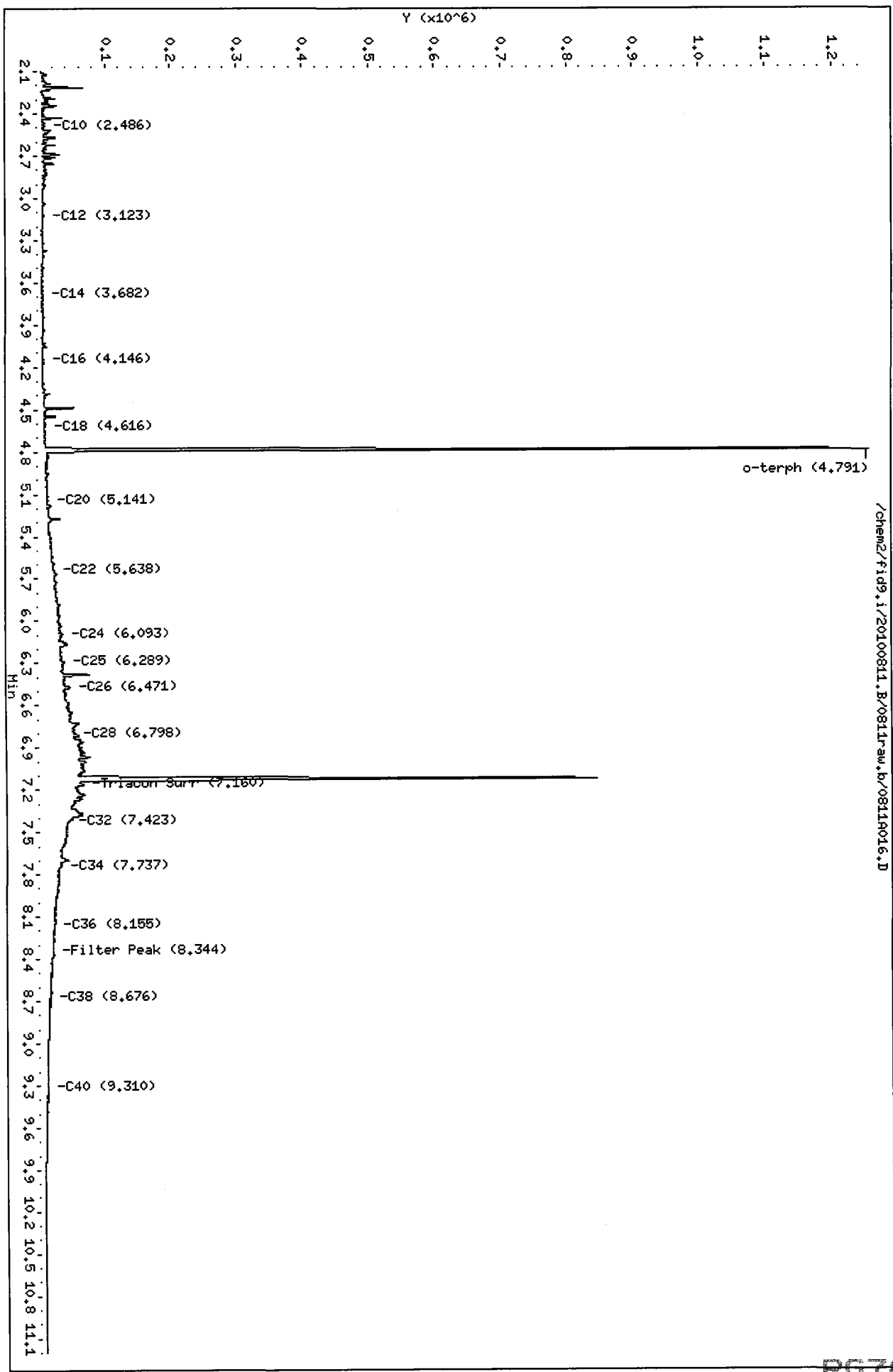
Surrogate	Area	Amount	%Rec
o-Terphenyl	1091499	42.4	94.2
Triacontane	45714	2.3	5.1

MS 8/12/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811rsw.b/0811A016.D
Date: 11-AUG-2010 19:08
Client ID: PSB10-2-4-073010
Sample Info: RG78H
Column phase: RTX-1

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



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811A016.D
 Method: /chem2/fid9.i/20100811.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 08/12/2010

ARI ID: RG78H
 Client ID: PSB10-2-4-073010
 Injection: 11-AUG-2010 19:08
 Dilution Factor: 1
 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.537	-0.014	1642	1665	GAS (Tol-C12)	504031	24
C8	1.721	0.005	897	375	DIESEL (C12-C24)	1602766	61
C10	2.486	0.004	5665	4302	M.OIL (C24-C38)	4996383	391
C12	3.123	0.004	3598	3139	AK-102 (C10-C25)	2031236	70 M
C14	3.682	0.006	2283	2805	AK-103 (C25-C36)	4403646	879 M
C16	4.146	-0.010	3480	3710			
C18	4.616	0.009	7310	10163			
C20	5.141	-0.005	9916	7444			
C22	5.638	-0.006	18719	14396			
C24	6.093	-0.002	31273	47145			
C25	6.289	-0.006	34420	52845			
C26	6.471	-0.005	41756	42208			
C28	6.798	0.001	49313	11658			
C32	7.423	0.003	39981	27284	JP-4 (Tol-C14)	565950	35
C34	7.737	-0.006	26860	33299	BUNKERC (C10-C38)	6832697	779 M
Filter Peak	8.344	0.001	15041	12207			
C36	8.155	0.006	17703	11683			
C38	8.676	0.004	10211	5201			
C40	9.310	0.002	6405	2144			
o-terph	4.791	-0.003	1245167	1065138	JET-A (C10-C18)	512630	37
Triacon Surr	7.128	-0.017	786610	826218	JP8 (Tol-C16)	631088	36

M Indicates manual integration within range.

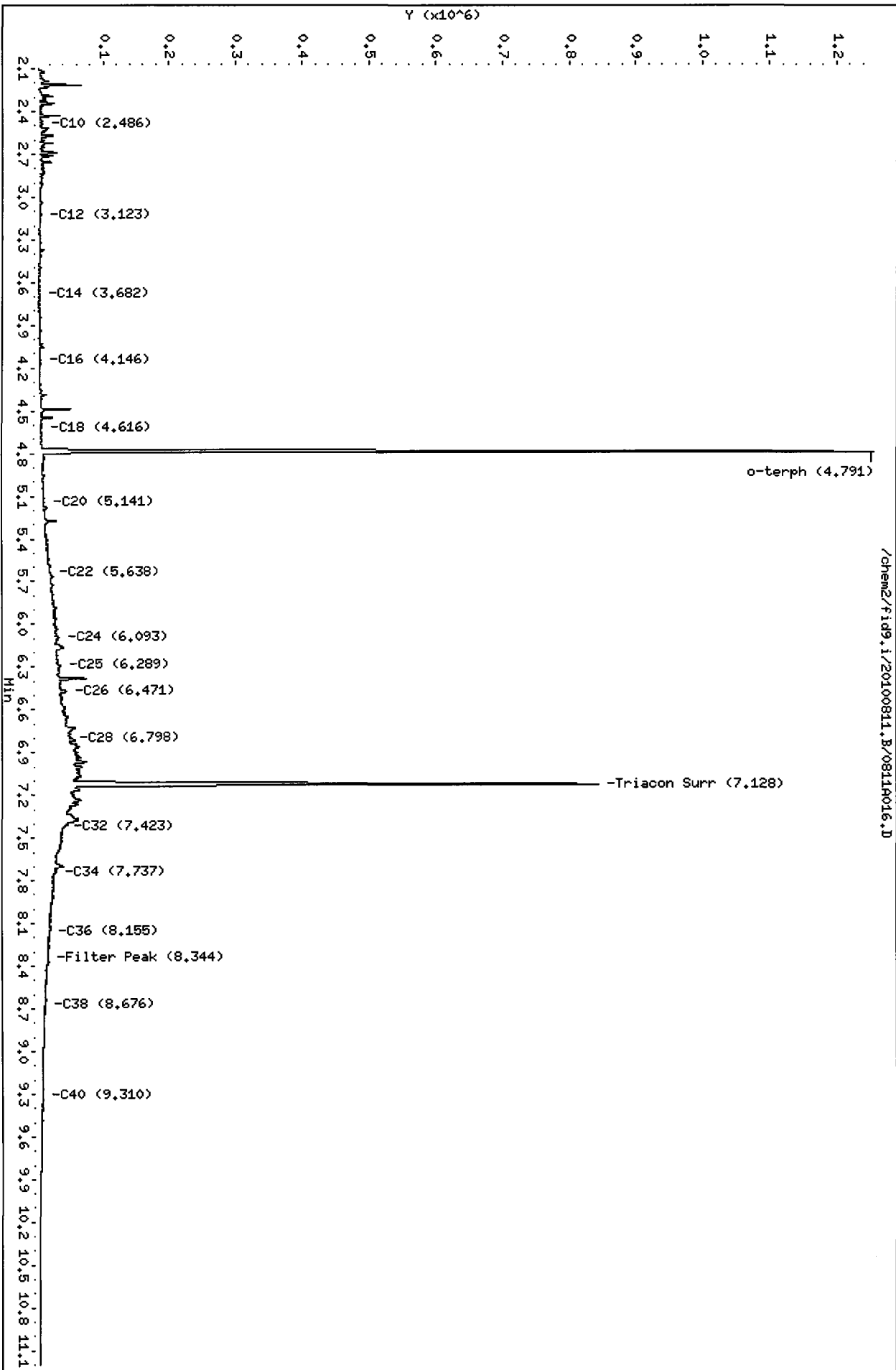
Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
 NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1065138	41.3	91.9
Triacontane	826218	41.7	92.6

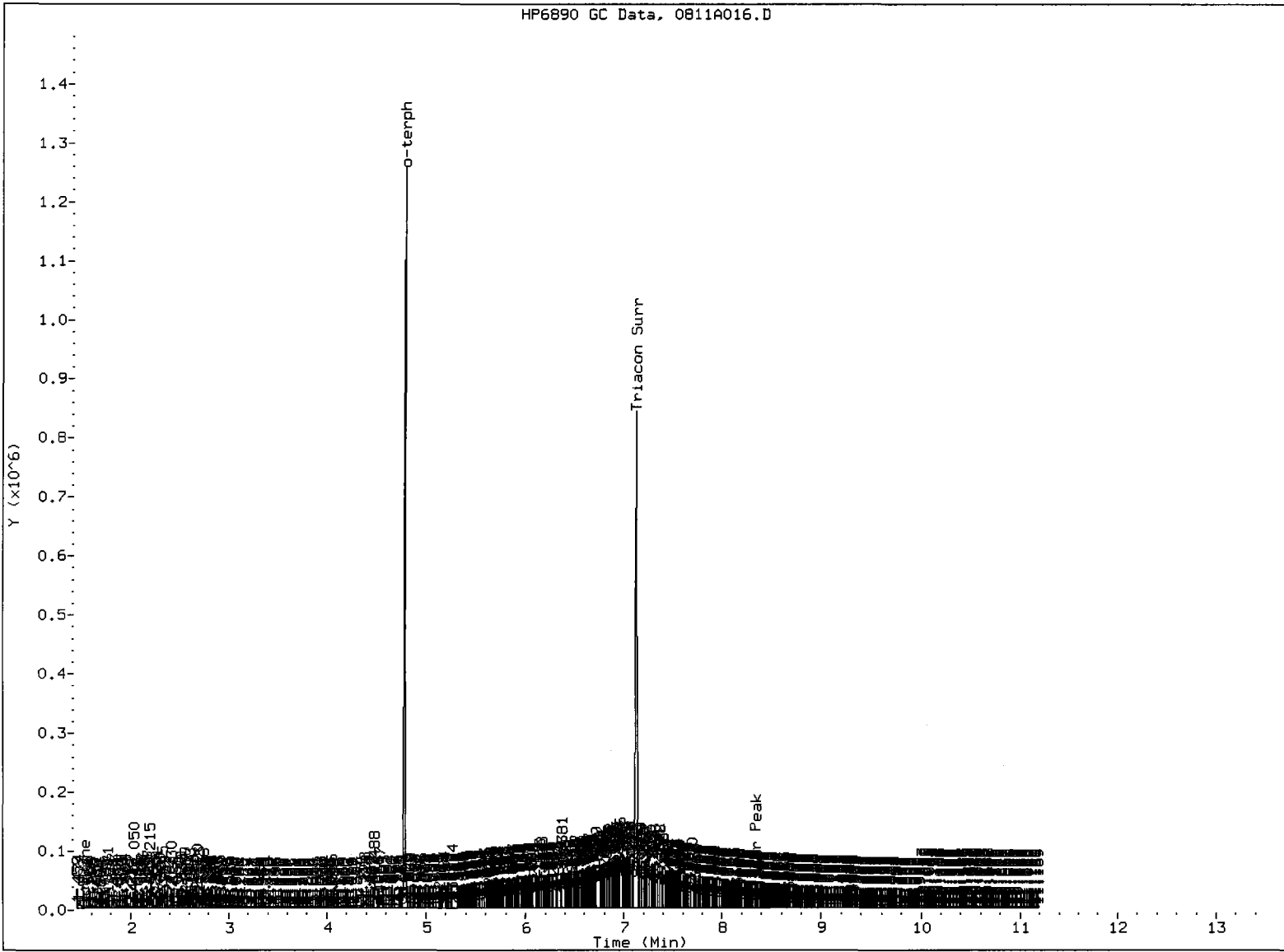
Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811A016.D
Date: 11-AUG-2010 19:08
Client ID: PSB10-2-4-073010
Sample Info: RG78H
Column phase: RTX-1

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



HP6890 GC Data, 0811A016.D



MANUAL INTEGRATION

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

Analyst: ms

Date: 8/12/10

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811raw.b/0811A017.D ARI ID: DIESEL#2
 Method: /chem2/fid9.i/20100811.B/ftphfid9a.m Client ID: LORA LAKE APTS.
 Instrument: fid9.i Injection: 11-AUG-2010 19:29
 Operator: MS Dilution Factor: 1
 Report Date: 08/12/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.536	-0.015	1372	1505	GAS (Tol-C12)	974290	46
C8	1.727	0.011	5844	4351	DIESEL (C12-C24)	6448112	245
C10	2.485	0.004	41054	25712	M.OIL (C24-C38)	120026	9
C12	3.120	0.001	84467	47422	AK-102 (C10-C25)	7215270	248
C14	3.675	-0.001	153136	152188	AK-103 (C25-C36)	77763	16
C16	4.168	0.012	281621	251341			
C18	4.618	0.011	204295	212343			
C20	5.143	-0.003	102634	122004			
C22	5.656	0.012	54376	58573			
C24	6.092	-0.003	17061	23863			
C25	6.288	-0.007	7080	12244			
C26	6.474	-0.002	2666	4397			
C28	6.792	-0.005	330	77			
C32	7.417	-0.003	441	212	JP-4 (Tol-C14)	2054024	125
C34	7.744	0.001	538	274	BUNKERC (C10-C38)	7312178	834
Filter Peak	8.346	0.003	494	294			
C36	8.146	-0.003	258	94			
C38	8.670	-0.002	957	1710			
C40	9.315	0.007	191	122			
o-terph	4.794	0.000	1329993	1280190	JET-A (C10-C18)	5356478	388
Triacon Surr	7.144	-0.001	601	213	JP8 (Tol-C16)	3730675	212

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
 NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

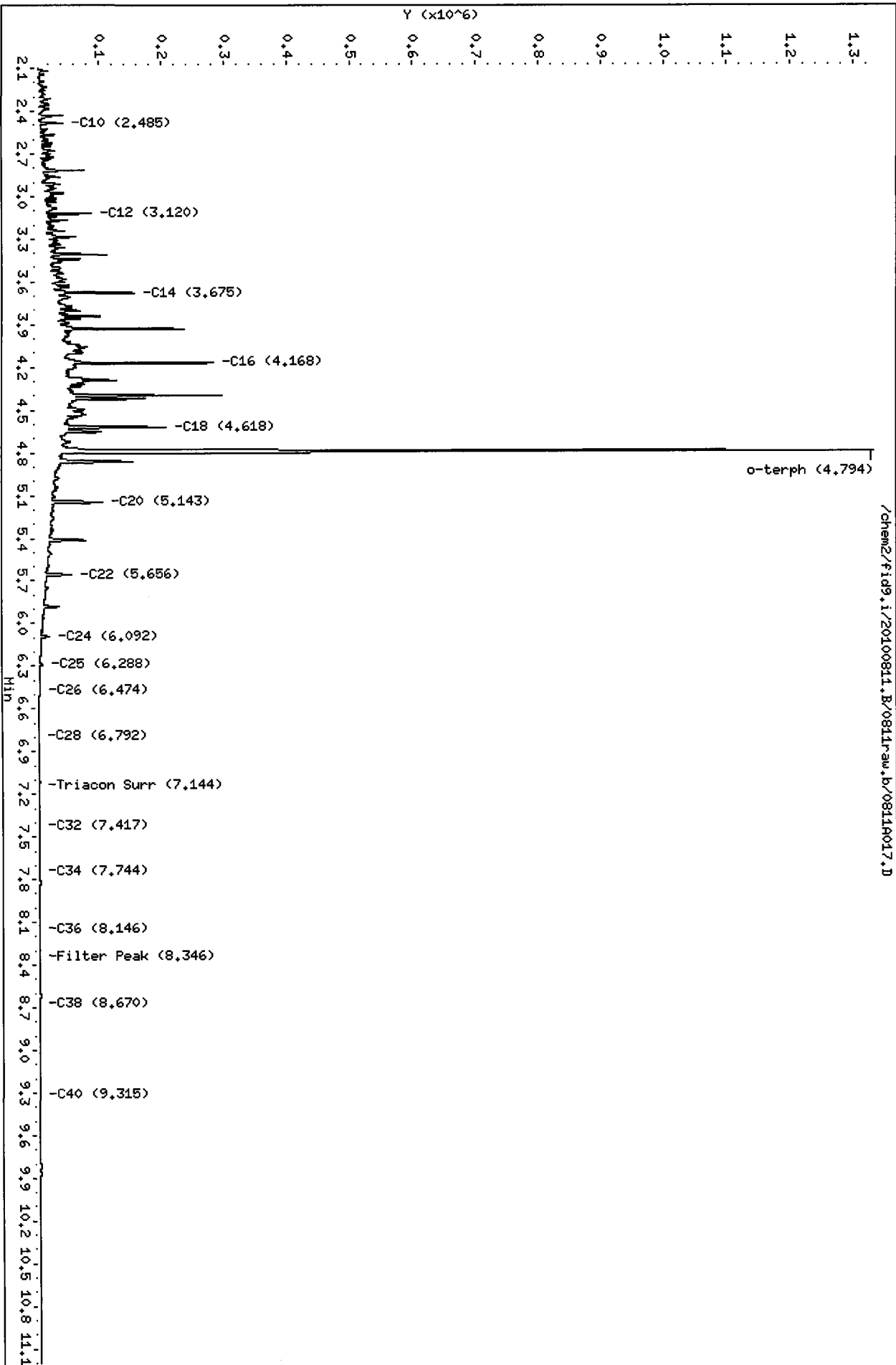
Surrogate	Area	Amount	%Rec
o-Terphenyl	1280190	49.7	110.4
Triacontane	213	0.0	0.0

MS 8/12/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811rsw.b/0811A017.D
Date : 11-AUG-2010 19:29
Client ID: LORA LAKE APTS.
Sample Info: DIESEL#2
Column phase: RTX-1

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



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811A017.D
 Method: /chem2/fid9.i/20100811.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 08/12/2010

ARI ID: DIESEL#2
 Client ID:
 Injection: 11-AUG-2010 19:29
 Dilution Factor: 1
 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.536	-0.015	1372	1505	GAS (Tol-C12)	974290	46
C8	1.727	0.011	5844	4351	DIESEL (C12-C24)	6591340	250
C10	2.485	0.004	41054	25712	M.OIL (C24-C38)	120026	9
C12	3.120	0.001	84467	47422	AK-102 (C10-C25)	7358498	253 M
C14	3.675	-0.001	153136	152188	AK-103 (C25-C36)	77763	16
C16	4.168	0.012	281621	251341			
C18	4.618	0.011	204295	212343			
C20	5.143	-0.003	102634	122004			
C22	5.656	0.012	54376	58573			
C24	6.092	-0.003	17061	23863			
C25	6.288	-0.007	7080	12244			
C26	6.474	-0.002	2666	4397			
C28	6.792	-0.005	330	77			
C32	7.417	-0.003	441	212	JP-4 (Tol-C14)	2054024	125
C34	7.744	0.001	538	274	BUNKERC (C10-C38)	7455406	850 M
Filter Peak	8.346	0.003	494	294			
C36	8.146	-0.003	258	94			
C38	8.670	-0.002	957	1710			
C40	9.315	0.007	191	122			
o-terph	4.794	0.000	1289504	1137737	JET-A (C10-C18)	5356478	388
Triacon Surr	7.144	-0.001	601	213	JP8 (Tol-C16)	3730675	212

M Indicates manual integration within range.

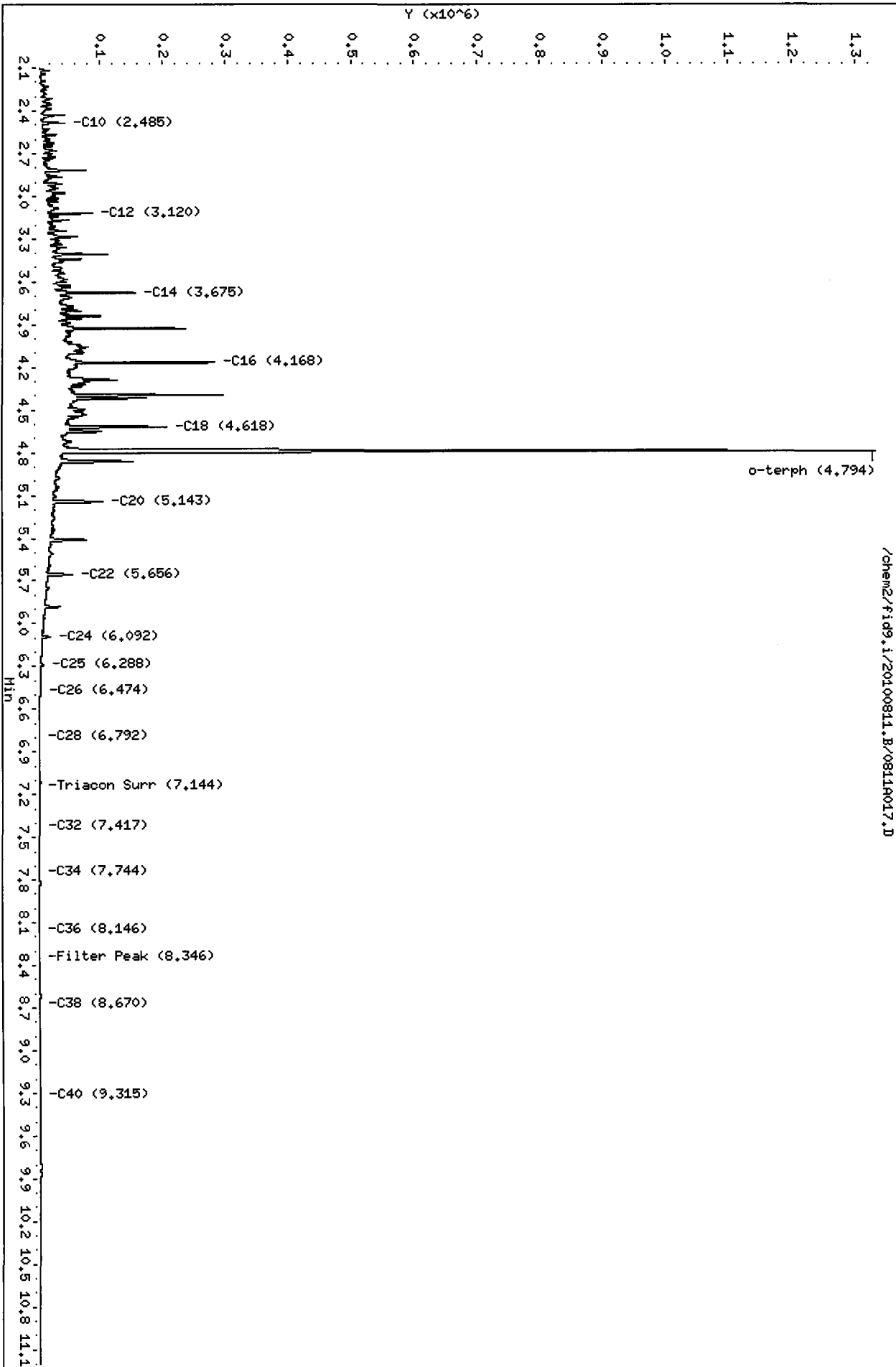
Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
 NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1137737	44.2	98.1
Triacotane	213	0.0	0.0

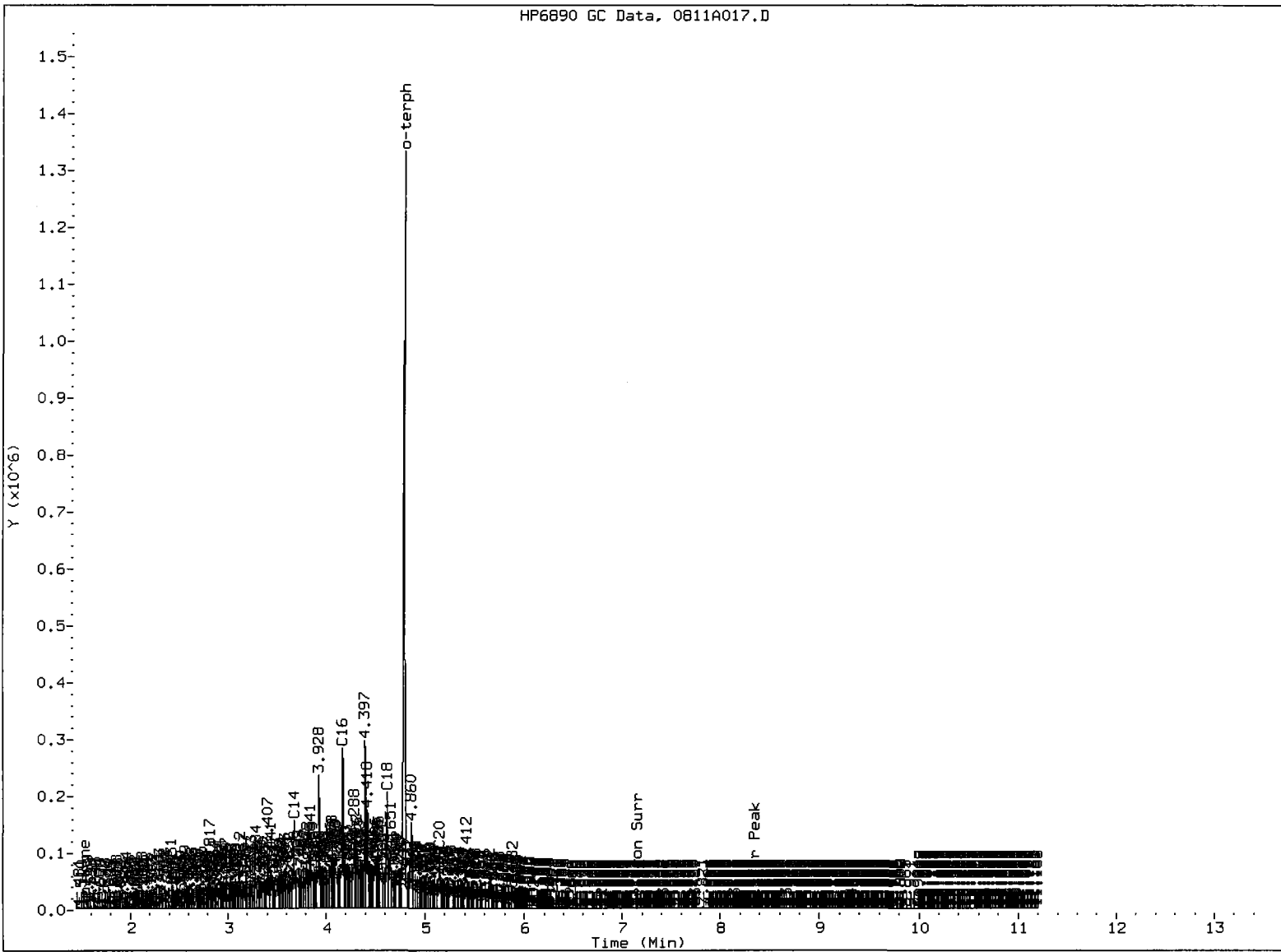
Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9,i/20100814.B/0811A017.D
Date : 11-AUG-2010 19:29
Client ID:
Sample Info: DIESEL#2
Column phase: RTX-1

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



HP6890 GC Data, 0811A017.D



MANUAL INTEGRATION

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

Analyst: MS

Date: 8/12/10

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811raw.b/0811A018.D ARI ID: MOIL#2
 Method: /chem2/fid9.i/20100811.B/ftphfid9a.m Client ID: LORA LAKE APTS.
 Instrument: fid9.i Injection: 11-AUG-2010 19:51
 Operator: MS Dilution Factor: 1
 Report Date: 08/12/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.557	0.006	1583	1210	GAS (Tol-C12)	36100	2
C8	1.714	-0.002	851	485	DIESEL (C12-C24)	762040	29
C10	2.486	0.005	940	966	M.OIL (C24-C38)	7326382	573
C12	3.120	0.001	84	21	AK-102 (C10-C25)	913717	31
C14	3.674	-0.001	59	25	AK-103 (C25-C36)	6475207	1293
C16	4.156	0.001	50	12			
C18	4.620	0.014	511	579			
C20	5.146	0.001	2491	927			
C22	5.647	0.002	10199	2424			
C24	6.097	0.003	25465	16275			
C25	6.297	0.003	33752	10014			
C26	6.476	0.000	39366	17689			
C28	6.797	0.001	51148	27216			
C32	7.420	0.000	64271	36353	JP-4 (Tol-C14)	38481	2
C34	7.740	-0.003	52335	29449	BUNKERC (C10-C38)	8095215	923
Filter Peak	8.346	0.003	26263	9723			
C36	8.150	0.002	33791	34453			
C38	8.670	-0.001	18313	11573			
C40	9.306	-0.001	9385	4098			
o-terph	4.784	-0.010	1530	2072	JET-A (C10-C18)	24453	2
Triacon Surr	7.153	0.008	61940	23175	JP8 (Tol-C16)	39756	2

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
 NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

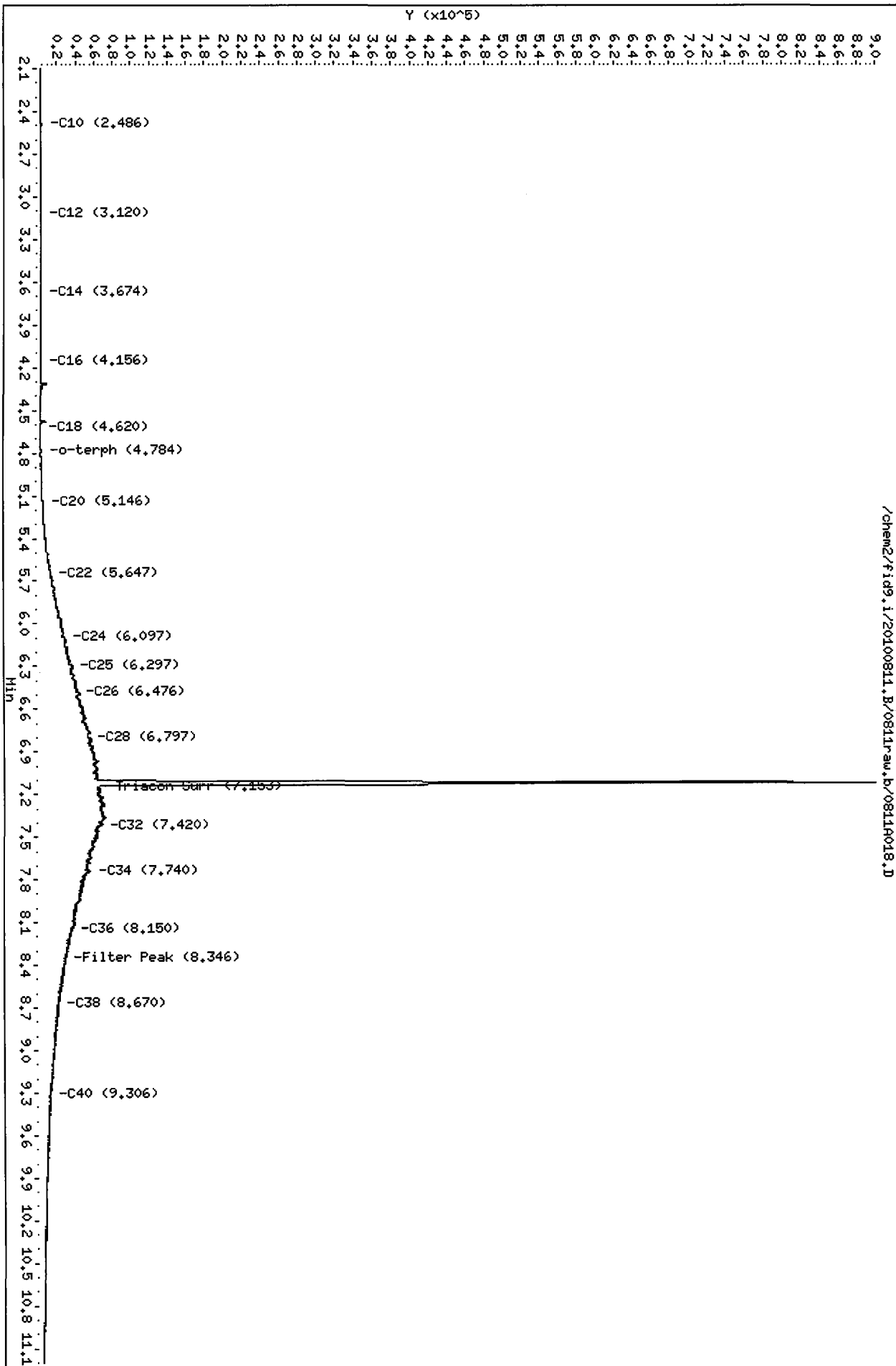
Surrogate	Area	Amount	%Rec
o-Terphenyl	2072	0.1	0.2
Triacontane	23175	1.2	2.6

MS 8/12/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811raw.b/0811A018.D
 Date: 11-AUG-2010 19:51
 Client ID: LORA LAKE APTS.
 Sample Info: HDIL#2
 Column phase: RTX-1

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



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811A018.D
 Method: /chem2/fid9.i/20100811.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 08/12/2010

ARI ID: MOIL#2
 Client ID:
 Injection: 11-AUG-2010 19:51
 Dilution Factor: 1
 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.557	0.006	1583	1210	GAS (Tol-C12)	36100	2
C8	1.714	-0.002	851	485	DIESEL (C12-C24)	762040	29
C10	2.486	0.005	940	966	M.OIL (C24-C38)	6441412	504
C12	3.120	0.001	84	21	AK-102 (C10-C25)	913717	31
C14	3.674	-0.001	59	25	AK-103 (C25-C36)	5590238	1116 M
C16	4.156	0.001	50	12			
C18	4.620	0.014	511	579			
C20	5.146	0.001	2491	927			
C22	5.647	0.002	10199	2424			
C24	6.097	0.003	25465	16275			
C25	6.297	0.003	33752	10014			
C26	6.476	0.000	39366	17689			
C28	6.797	0.001	51148	27216			
C32	7.420	0.000	64271	36353	JP-4 (Tol-C14)	38481	2
C34	7.740	-0.003	52335	29449	BUNKERC (C10-C38)	7210245	822 M
Filter Peak	8.346	0.003	26263	9723			
C36	8.150	0.002	33791	34453			
C38	8.670	-0.001	18313	11573			
C40	9.306	-0.001	9385	4098			
o-terph	4.784	-0.010	1530	2072	JET-A (C10-C18)	24453	2
Triacon Surr	7.129	-0.016	837453	909320	JP8 (Tol-C16)	39756	2

M Indicates manual integration within range.

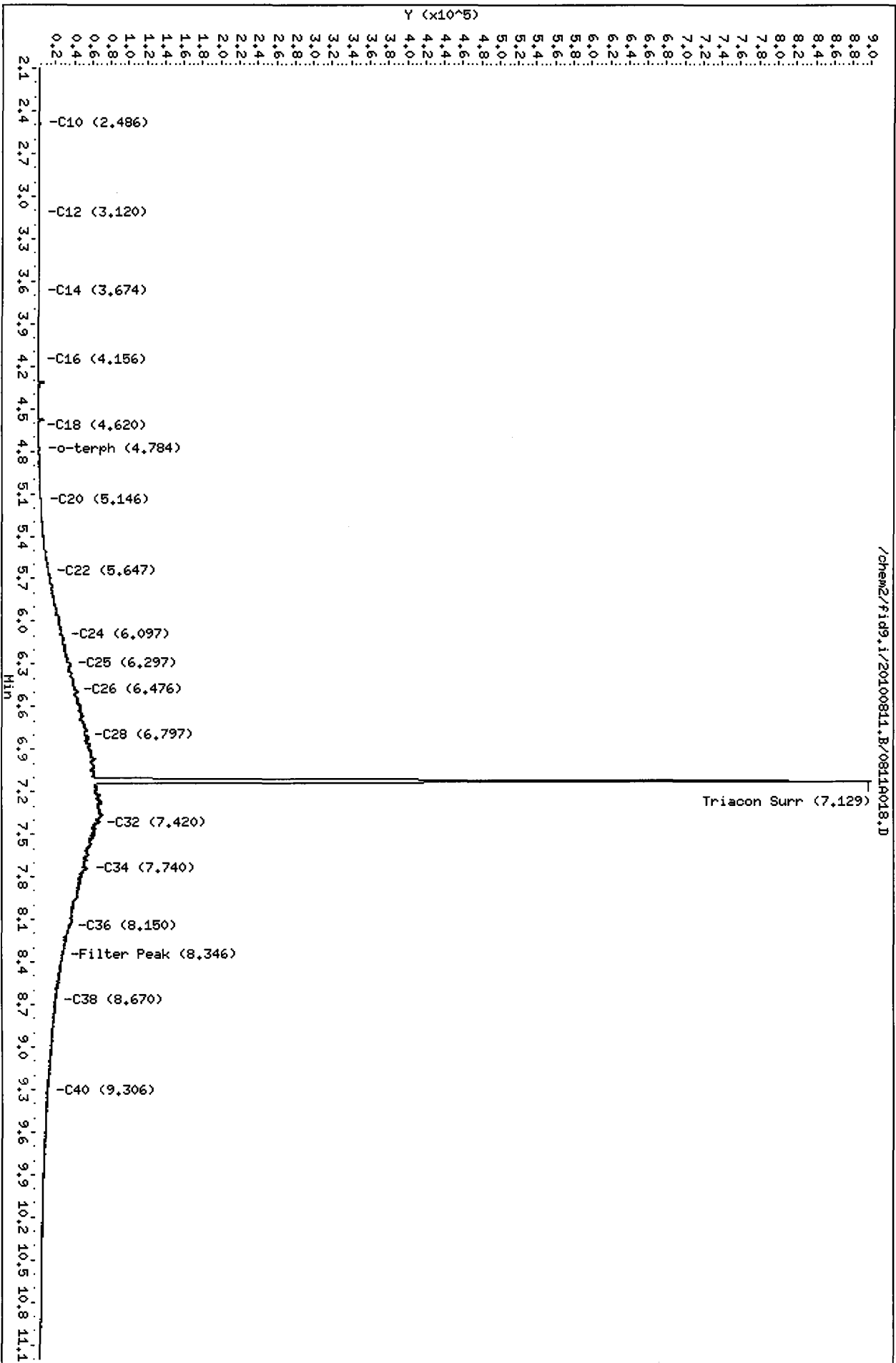
Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
 NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

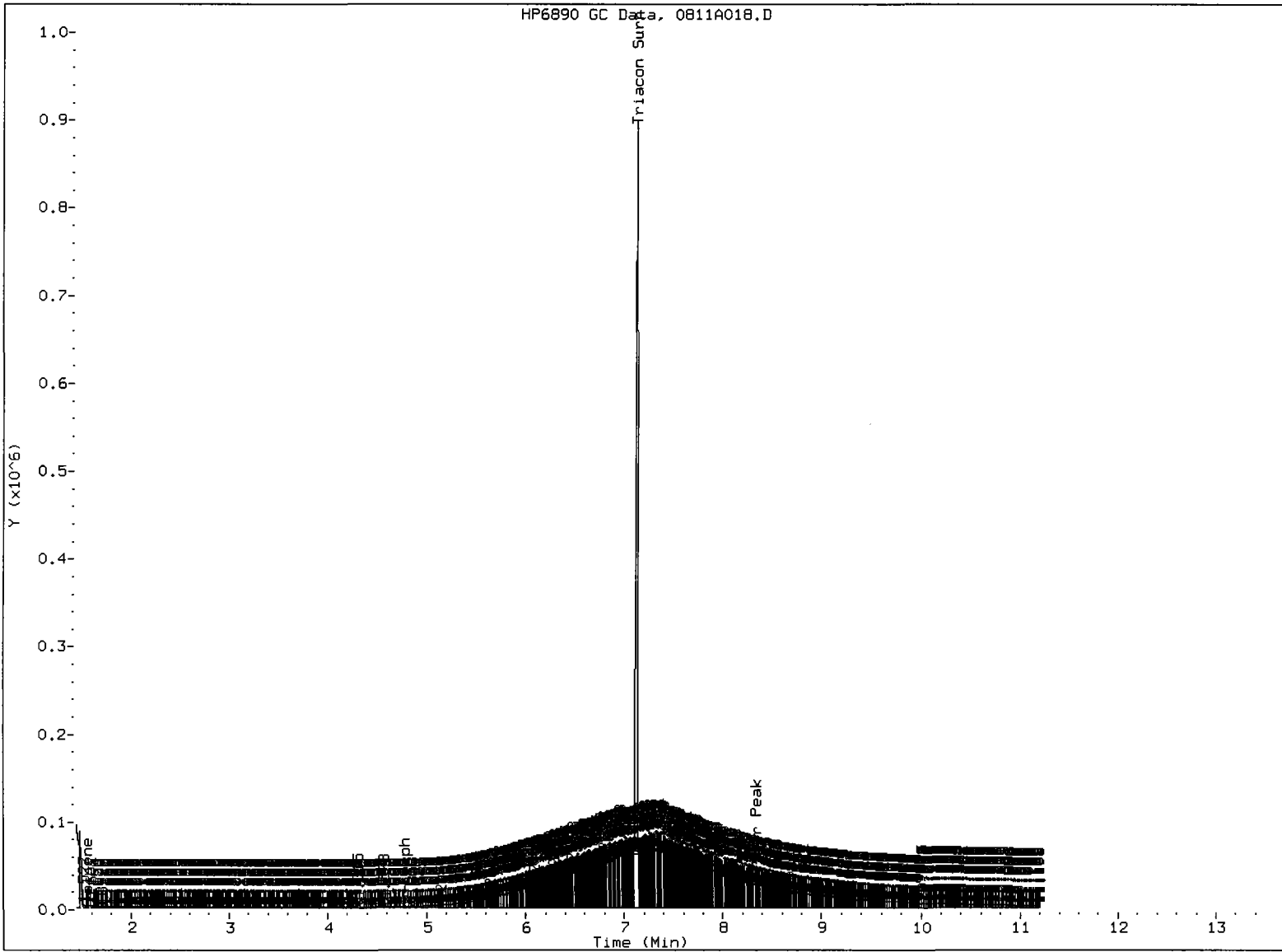
Surrogate	Area	Amount	%Rec
o-Terphenyl	2072	0.1	0.2
Triacontane	909320	45.9	101.9

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9,i/20100814.B/0811A018.D
Date: 11-AUG-2010 19:51
Client ID:
Sample Info: M01L#2
Column phase: RTX-1

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





MANUAL INTEGRATION

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

Analyst: MS

Date: 8/12/10

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811raw.b/0811A019.D ARI ID: RG78J
 Method: /chem2/fid9.i/20100811.B/ftphfid9a.m Client ID: PSB10-8.5-10-073010
 Instrument: fid9.i Injection: 11-AUG-2010 20:12
 Operator: MS Dilution Factor: 1
 Report Date: 08/12/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.537	-0.014	1871	1920	GAS (Tol-C12)	394625	19
C8	1.708	-0.009	1676	1106	DIESEL (C12-C24)	559484	21
C10	2.486	0.004	4115	2811	M.OIL (C24-C38)	3814842	298
C12	3.126	0.006	1345	1232	AK-102 (C10-C25)	780100	27
C14	3.686	0.010	1286	1361	AK-103 (C25-C36)	3458930	691
C16	4.159	0.003	2057	1343			
C18	4.616	0.010	5151	4763			
C20	5.146	0.000	3766	4749			
C22	5.636	-0.008	6408	3467			
C24	6.092	-0.003	12823	11458			
C25	6.287	-0.008	17528	20928			
C26	6.474	-0.002	18872	11985			
C28	6.785	-0.011	26148	17735			
C32	7.409	-0.011	32141	42007	JP-4 (Tol-C14)	434240	26
C34	7.744	0.000	19289	7530	BUNKERC (C10-C38)	4519982	515
Filter Peak	8.345	0.002	10024	5878			
C36	8.149	0.000	12114	6457			
C38	8.668	-0.003	7101	4424			
C40	9.309	0.001	3967	3709			
o-terph	4.792	-0.001	1230615	1050631	JET-A (C10-C18)	261826	19
Triacon Surr	7.160	0.014	56160	97026	JP8 (Tol-C16)	466208	26

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
 NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

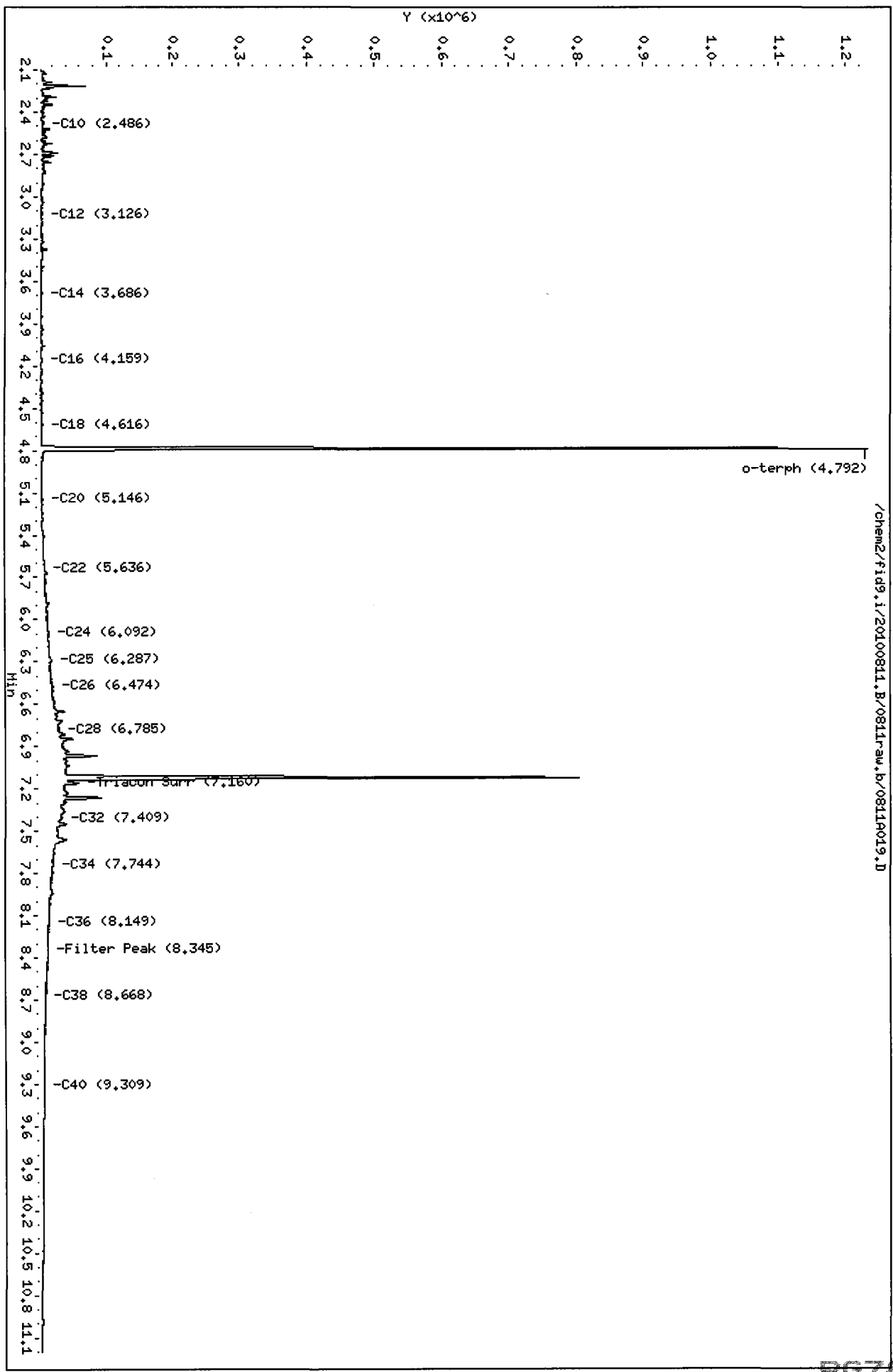
Surrogate	Area	Amount	%Rec
o-Terphenyl	1050631	40.8	90.6
Triacontane	97026	4.9	10.9

MS/A/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811raw.b/0811A019.D
Date: 11-AUG-2010 20:12
Client ID: PSB10-8.5-10-073010
Sample Info: RG78J
Column phase: RTX-1

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



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811A019.D
Method: /chem2/fid9.i/20100811.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 08/12/2010

ARI ID: RG78J
Client ID: PSB10-8.5-10-073010
Injection: 11-AUG-2010 20:12
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.537	-0.014	1871	1920	GAS (Tol-C12)	394625	19
C8	1.708	-0.009	1676	1106	DIESEL (C12-C24)	559484	21
C10	2.486	0.004	4115	2811	M.OIL (C24-C38)	3125481	244
C12	3.126	0.006	1345	1232	AK-102 (C10-C25)	780100	27
C14	3.686	0.010	1286	1361	AK-103 (C25-C36)	2769569	553 M
C16	4.159	0.003	2057	1343			
C18	4.616	0.010	5151	4763			
C20	5.146	0.000	3766	4749			
C22	5.636	-0.008	6408	3467			
C24	6.092	-0.003	12823	11458			
C25	6.287	-0.008	17528	20928			
C26	6.474	-0.002	18872	11985			
C28	6.785	-0.011	26148	17735			
C32	7.409	-0.011	32141	42007	JP-4 (Tol-C14)	434240	26
C34	7.744	0.000	19289	7530	BUNKERC (C10-C38)	3830621	437 M
Filter Peak	8.345	0.002	10024	5878			
C36	8.149	0.000	12114	6457			
C38	8.668	-0.003	7101	4424			
C40	9.309	0.001	3967	3709			
o-terph	4.792	-0.001	1230615	1050631	JET-A (C10-C18)	261826	19
Triacon Surr	7.128	-0.017	761931	787155	JP8 (Tol-C16)	466208	26

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

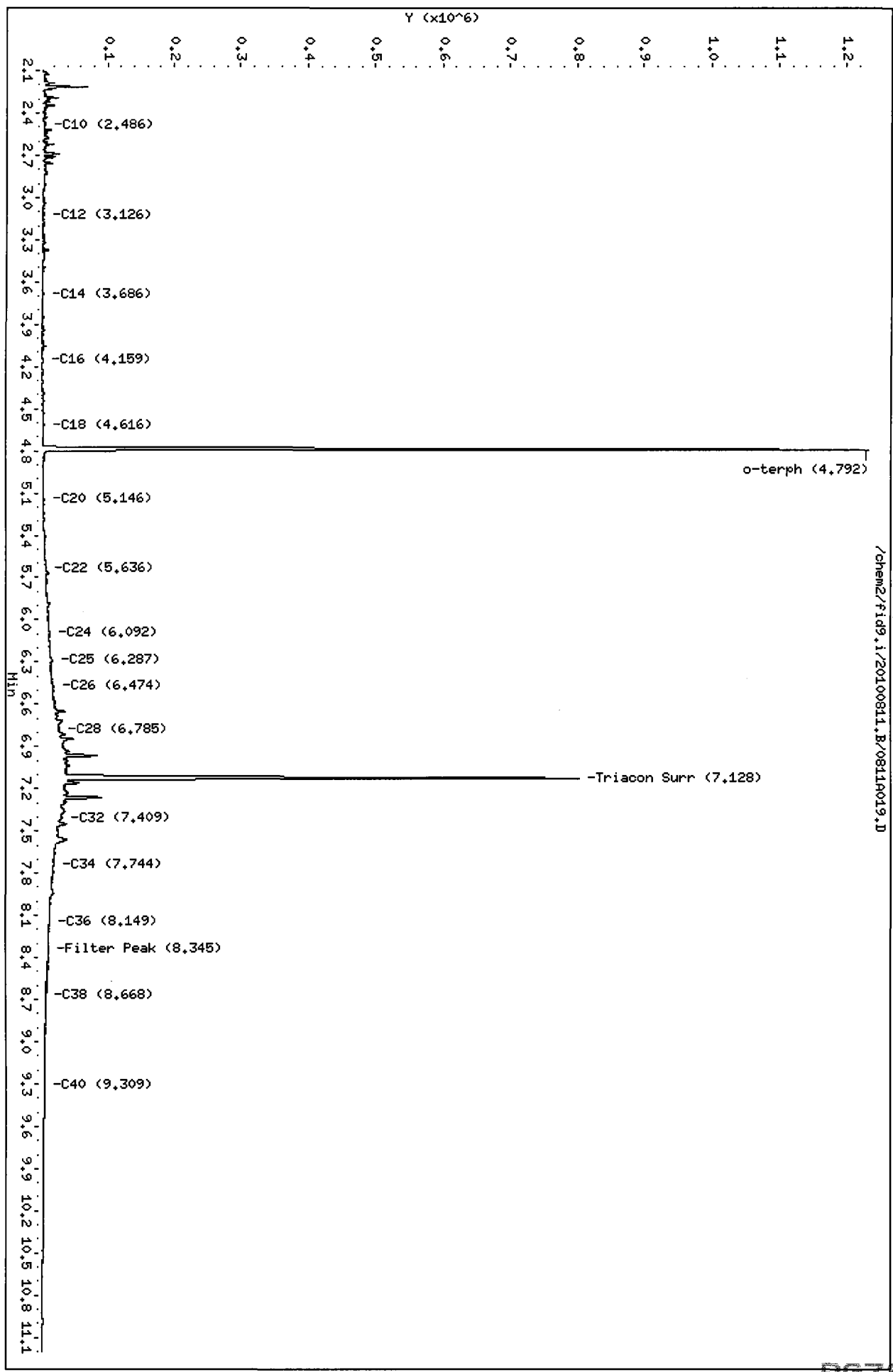
Surrogate	Area	Amount	%Rec
o-Terphenyl	1050631	40.8	90.6
Triacontane	787155	39.7	88.2

MS/A/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

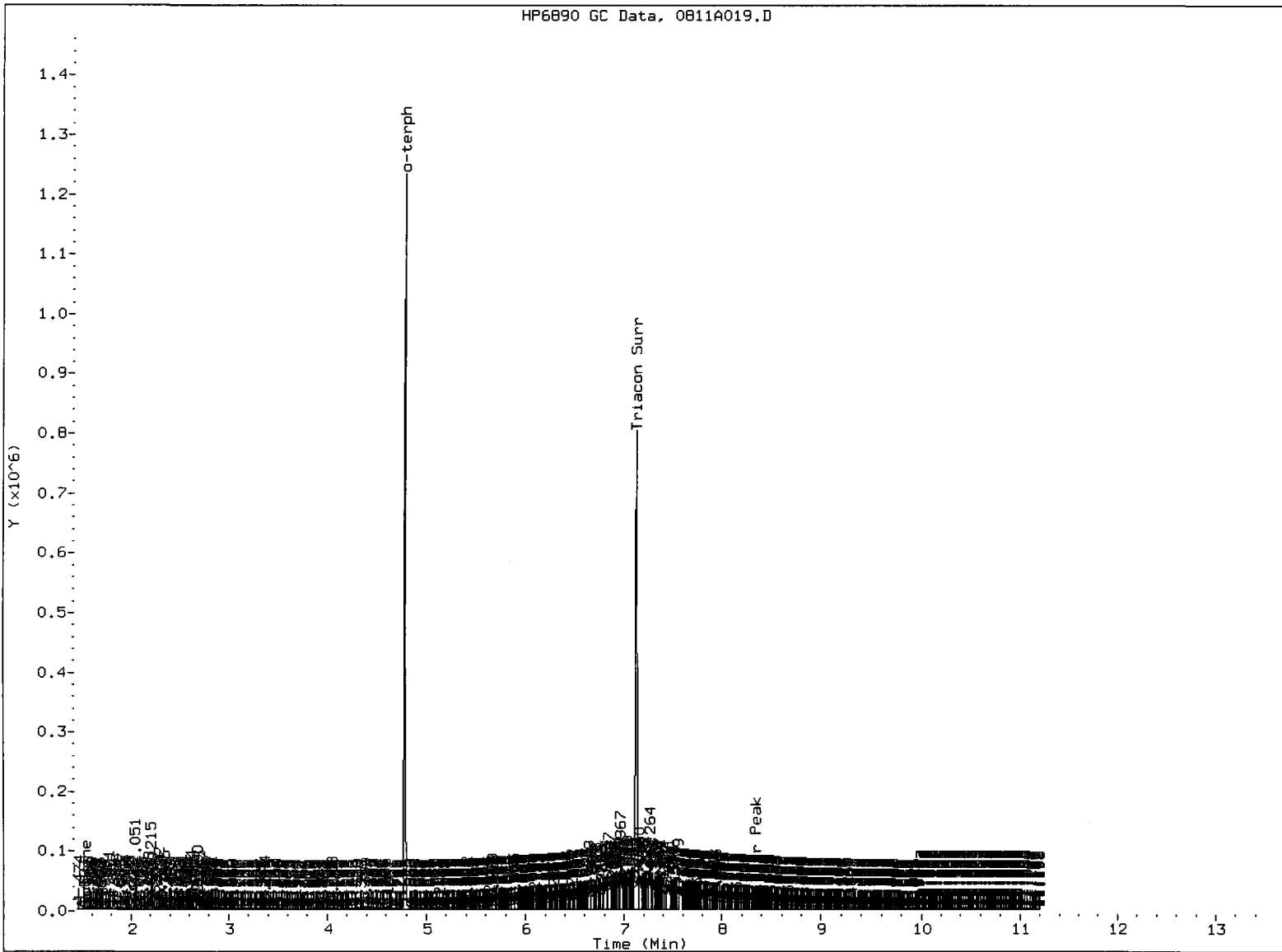
Data File: /chem2/fid9.i/20100811.B/0811A019.D
Date: 11-AUG-2010 20:12
Client ID: PSB10-8.5-10-073010
Sample Info: RG78J
Column phase: RTX-1

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



/chem2/fid9.i/20100811.B/0811A019.D

HP6890 GC Data, 0811A019.D



MANUAL INTEGRATION

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

Analyst: MS Date: 8/12/11

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811raw.b/0811A020.D ARI ID: RG78JMS
 Method: /chem2/fid9.i/20100811.B/ftphfid9a.m Client ID: PSE10-8.5-10-07 MS
 Instrument: fid9.i Injection: 11-AUG-2010 20:34
 Operator: MS Dilution Factor: 1
 Report Date: 08/12/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.567	0.016	42525	21228	GAS (Tol-C12)	4902547	233
C8	1.726	0.010	17884	12524	DIESEL (C12-C24)	33735507	1281
C10	2.486	0.005	214919	131361	M.OIL (C24-C38)	4525930	354
C12	3.122	0.003	449112	249314	AK-102 (C10-C25)	37730234	1299
C14	3.679	0.003	804843	787453	AK-103 (C25-C36)	4044550	807
C16	4.159	0.003	302949	208467			
C18	4.594	-0.012	244149	296068			
C20	5.137	-0.008	120858	28737			
C22	5.629	-0.015	88295	131304			
C24	6.095	0.001	104222	137816			
C25	6.290	-0.005	61574	108266			
C26	6.476	0.000	36500	68517			
C28	6.790	-0.006	29843	10010			
C32	7.429	0.010	28786	6874	JP-4 (Tol-C14)	10269180	626
C34	7.740	-0.003	20829	5782	BUNKERC (C10-C38)	42076257	4797
Filter Peak	8.346	0.003	10967	5623			
C36	8.142	-0.007	13469	13603			
C38	8.674	0.003	7379	5143			
C40	9.310	0.002	3726	2848			
o-terph	4.801	0.007	1432356	1657702	JET-A (C10-C18)	26490880	1917
Triacon Surr	7.160	0.015	60091	120938	JP8 (Tol-C16)	18655040	1060

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
 NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

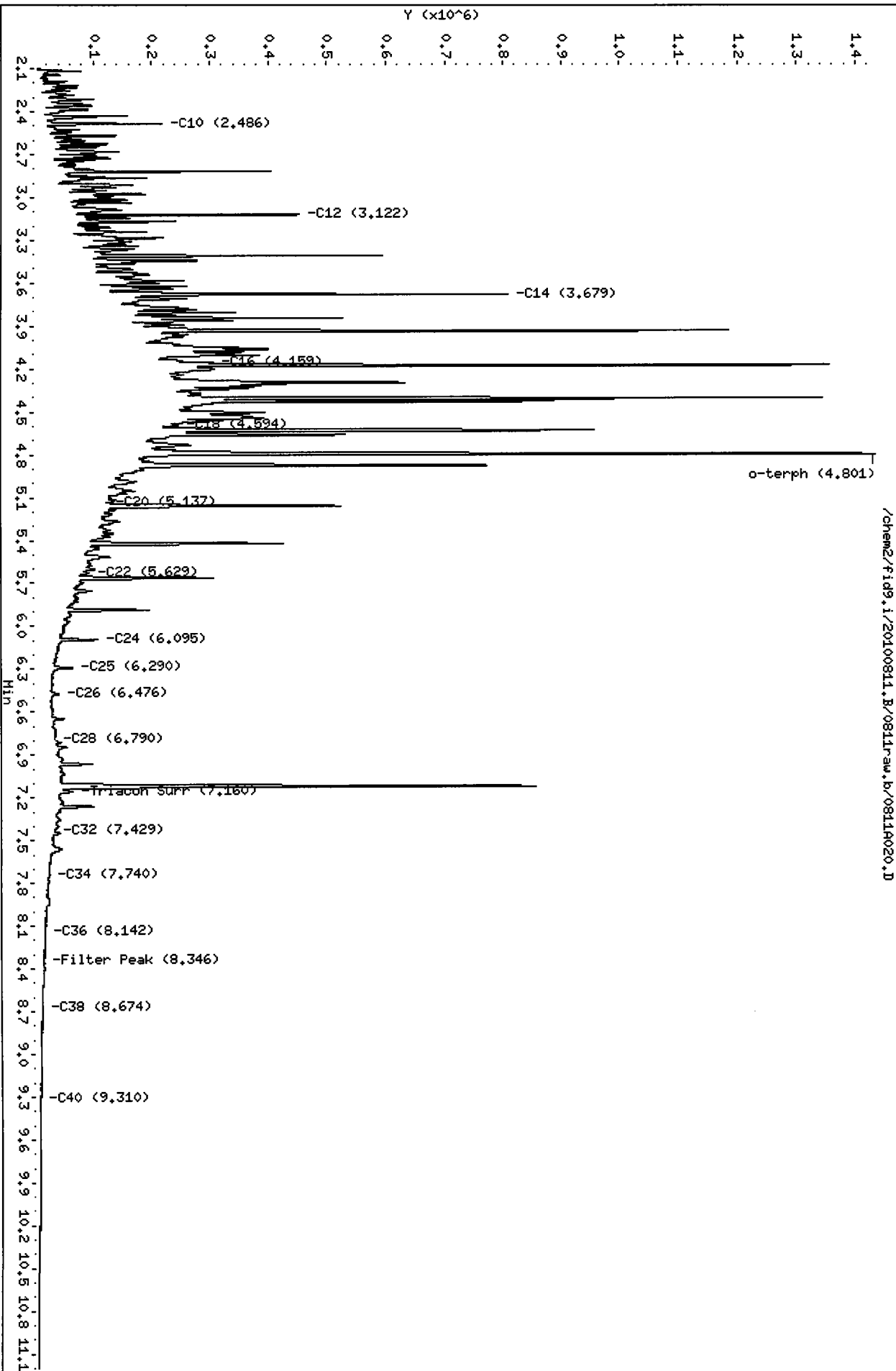
Surrogate	Area	Amount	%Rec
o-Terphenyl	1657702	64.3	143.0
Triacontane	120938	6.1	13.6

MS 8/12/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811raw.b/0811A020.D
Date: 11-AUG-2010 20:34
Client ID: PSB10-8.5-10-07 MS
Sample Info: RG78JMS
Column phase: RTX-1

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



Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811A020.D
 Method: /chem2/fid9.i/20100811.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 08/12/2010

ARI ID: RG78JMS
 Client ID: PSB10-8.5-10-07 MS
 Injection: 11-AUG-2010 20:34
 Dilution Factor: 1
 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.567	0.016	42525	21228	GAS (Tol-C12)	4902547	233
C8	1.726	0.010	17884	12524	DIESEL (C12-C24)	34271075	1302
C10	2.486	0.005	214919	131361	M.OIL (C24-C38)	3814310	298
C12	3.122	0.003	449112	249314	AK-102 (C10-C25)	38265802	1317 M
C14	3.679	0.003	804843	787453	AK-103 (C25-C36)	3332930	665 M
C16	4.159	0.003	302949	208467			
C18	4.594	-0.012	244149	296068			
C20	5.137	-0.008	120858	28737			
C22	5.629	-0.015	88295	131304			
C24	6.095	0.001	104222	137816			
C25	6.290	-0.005	61574	108266			
C26	6.476	0.000	36500	68517			
C28	6.790	-0.006	29843	10010			
C32	7.429	0.010	28786	6874	JP-4 (Tol-C14)	10269180	626
C34	7.740	-0.003	20829	5782	BUNKERC (C10-C38)	41900205	4777 M
Filter Peak	8.346	0.003	10967	5623			
C36	8.142	-0.007	13469	13603			
C38	8.674	0.003	7379	5143			
C40	9.310	0.002	3726	2848			
o-terph	4.801	0.007	1236026	1126283	JET-A (C10-C18)	26490880	1917
Triacon Surr	7.128	-0.017	810872	833374	JP8 (Tol-C16)	18655040	1060

M Indicates manual integration within range.

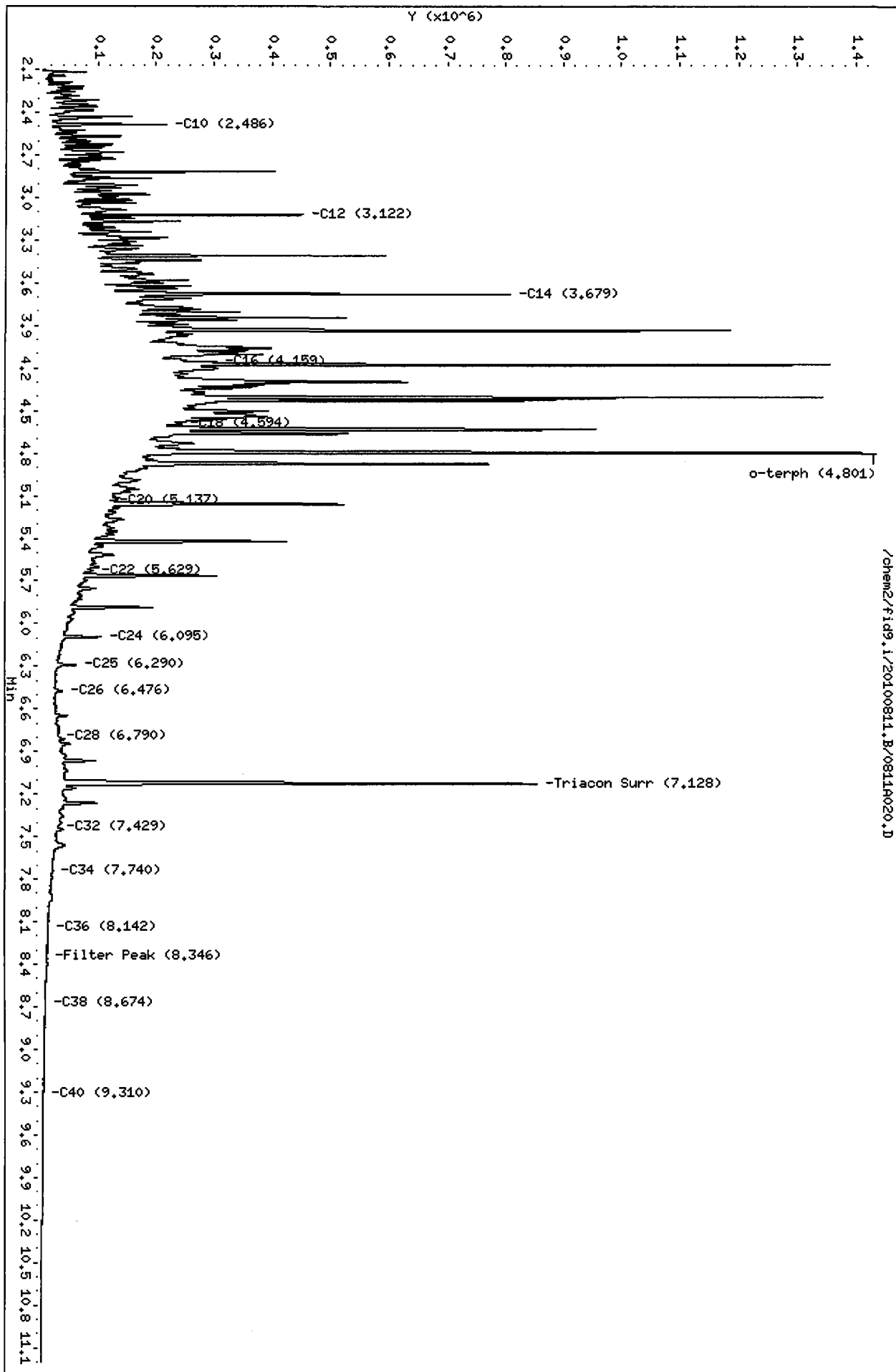
Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
 NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1126283	43.7	97.2
Triacontane	833374	42.0	93.4

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

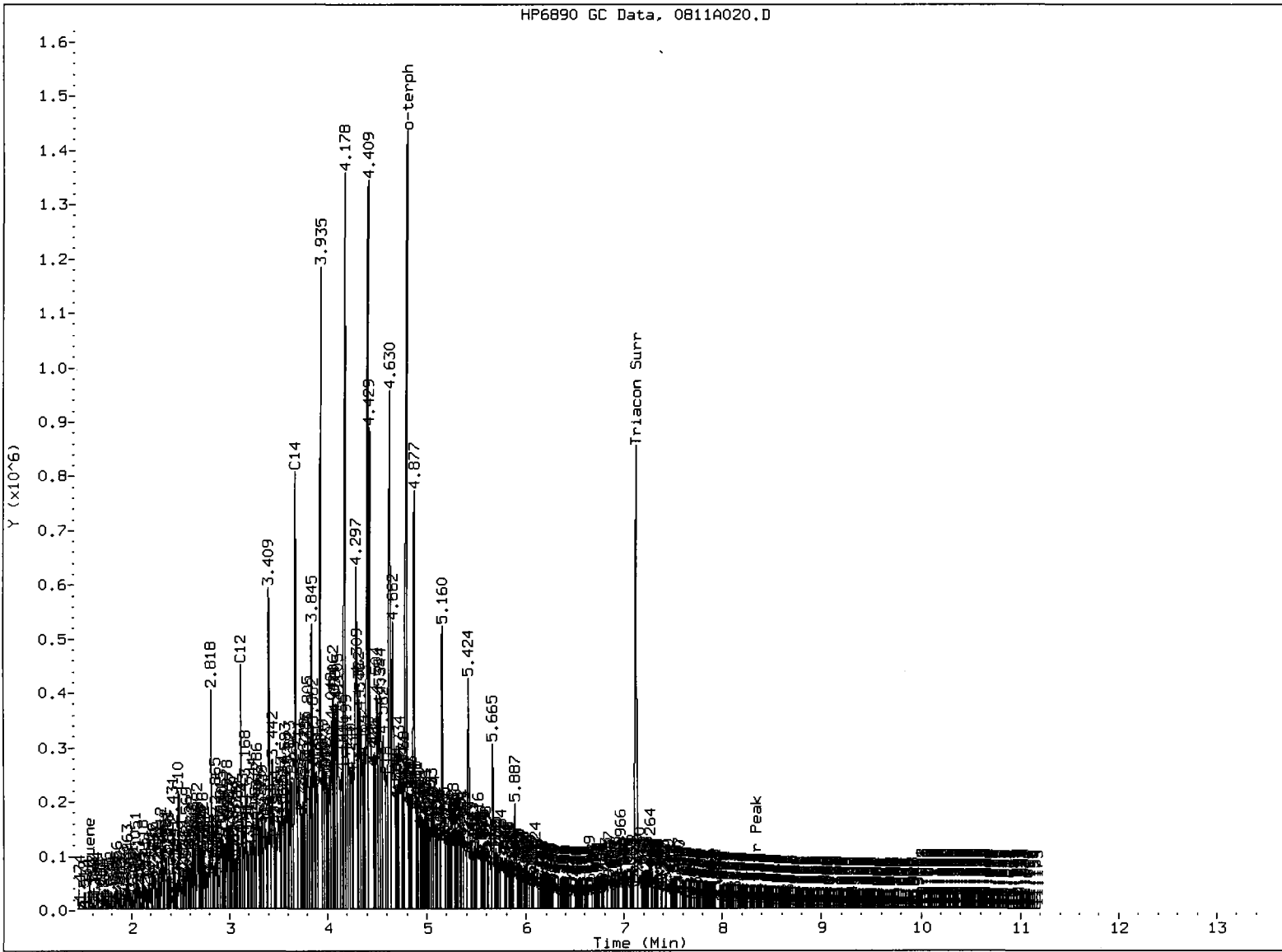
Data File: /chem2/fid9.i/20100811.B/0811A020.D
Date : 11-AUG-2010 20:34
Client ID: PSB10-8.5-10-07 HS
Sample Info: RG78JHS
Column phase: RTX-1

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



/chem2/fid9.i/20100811.B/0811A020.D

HP6890 GC Data, 0811A020.D



MANUAL INTEGRATION

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

Analyst: Mo

Date: 8/12/10

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811raw.b/0811A021.D ARI ID: RG78JMSD
 Method: /chem2/fid9.i/20100811.B/ftphfid9a.m Client ID: PSB10-8.5-10-07 MSD
 Instrument: fid9.i Injection: 11-AUG-2010 20:55
 Operator: MS Dilution Factor: 1
 Report Date: 08/12/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.566	0.015	40018	20595	GAS (Tol-C12)	4878132	232
C8	1.725	0.009	17822	13590	DIESEL (C12-C24)	32793695	1245
C10	2.485	0.004	209000	128682	M.OIL (C24-C38)	5228071	409
C12	3.120	0.001	451309	243136	AK-102 (C10-C25)	36743533	1265
C14	3.677	0.002	749710	690394	AK-103 (C25-C36)	4646787	928
C16	4.158	0.002	290004	234904			
C18	4.593	-0.013	236464	302740			
C20	5.156	0.011	520232	632873			
C22	5.640	-0.004	75293	34257			
C24	6.094	0.000	106917	150498			
C25	6.290	-0.004	63611	86803			
C26	6.473	-0.003	39359	64780			
C28	6.794	-0.002	36008	13490			
C32	7.425	0.006	38699	11300	JP-4 (Tol-C14)	10011234	611
C34	7.743	0.000	26817	8496	BUNKERC (C10-C38)	41773024	4763
Filter Peak	8.337	-0.006	14689	6331			
C36	8.145	-0.003	17424	8216			
C38	8.673	0.002	9329	2969			
C40	9.305	-0.002	4581	2833			
o-terph	4.799	0.005	1380732	1612035	JET-A (C10-C18)	25848149	1870
Triacon Surr	7.158	0.013	67794	108067	JP8 (Tol-C16)	18241503	1037

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
 NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

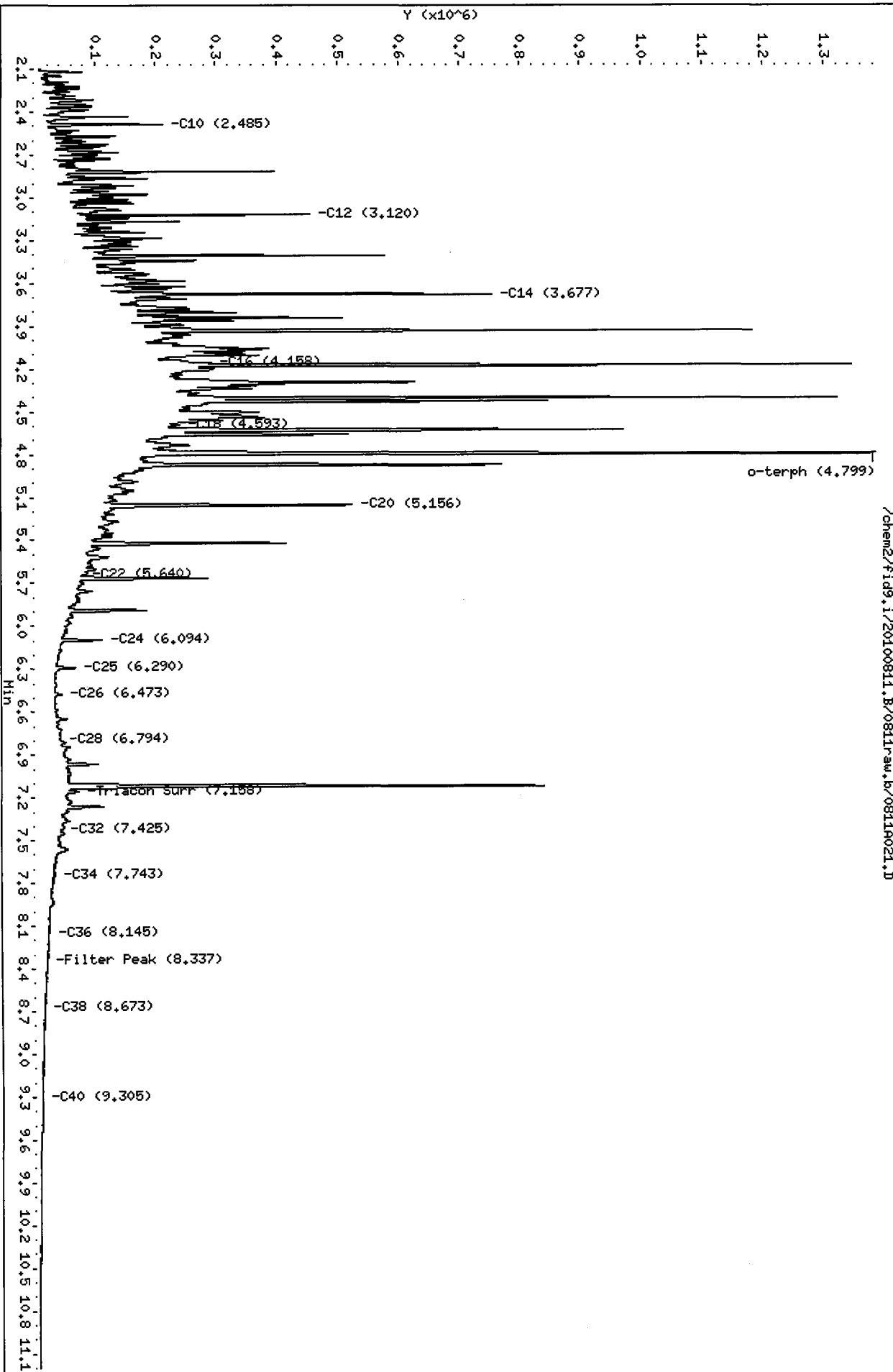
Surrogate	Area	Amount	%Rec
o-Terphenyl	1612035	62.6	139.1
Triacontane	108067	5.4	12.1

MS 8/12/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811rsw.b/0811A021.D
Date: 11-AUG-2010 20:55
Client ID: PSB10-8.5-10-07 MSD
Sample Info: RC78JMSD
Column phase: RTX-1

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



/chem2/fid9.i/20100811.B/0811rsw.b/0811A021.D

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811A021.D
Method: /chem2/fid9.i/20100811.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 08/12/2010

ARI ID: RG78JMSD
Client ID: PSB10-8.5-10-07 MSD
Injection: 11-AUG-2010 20:55
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.566	0.015	40018	20595	GAS (Tol-C12)	4878132	232
C8	1.725	0.009	17822	13590	DIESEL (C12-C24)	33312094	1265
C10	2.485	0.004	209000	128682	M.OIL (C24-C38)	4524794	354
C12	3.120	0.001	451309	243136	AK-102 (C10-C25)	37261933	1283 M
C14	3.677	0.002	749710	690394	AK-103 (C25-C36)	3943510	787 M
C16	4.158	0.002	290004	234904			
C18	4.593	-0.013	236464	302740			
C20	5.156	0.011	520232	632873			
C22	5.640	-0.004	75293	34257			
C24	6.094	0.000	106917	150498			
C25	6.290	-0.004	63611	86803			
C26	6.473	-0.003	39359	64780			
C28	6.794	-0.002	36008	13490			
C32	7.425	0.006	38699	11300	JP-4 (Tol-C14)	10011234	611
C34	7.743	0.000	26817	8496	BUNKERC (C10-C38)	41588146	4742 M
Filter Peak	8.337	-0.006	14689	6331			
C36	8.145	-0.003	17424	8216			
C38	8.673	0.002	9329	2969			
C40	9.305	-0.002	4581	2833			
o-terph	4.799	0.005	1188166	1097561	JET-A (C10-C18)	25848149	1870
Triacon Surr	7.127	-0.018	783244	812347	JP8 (Tol-C16)	18241503	1037

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

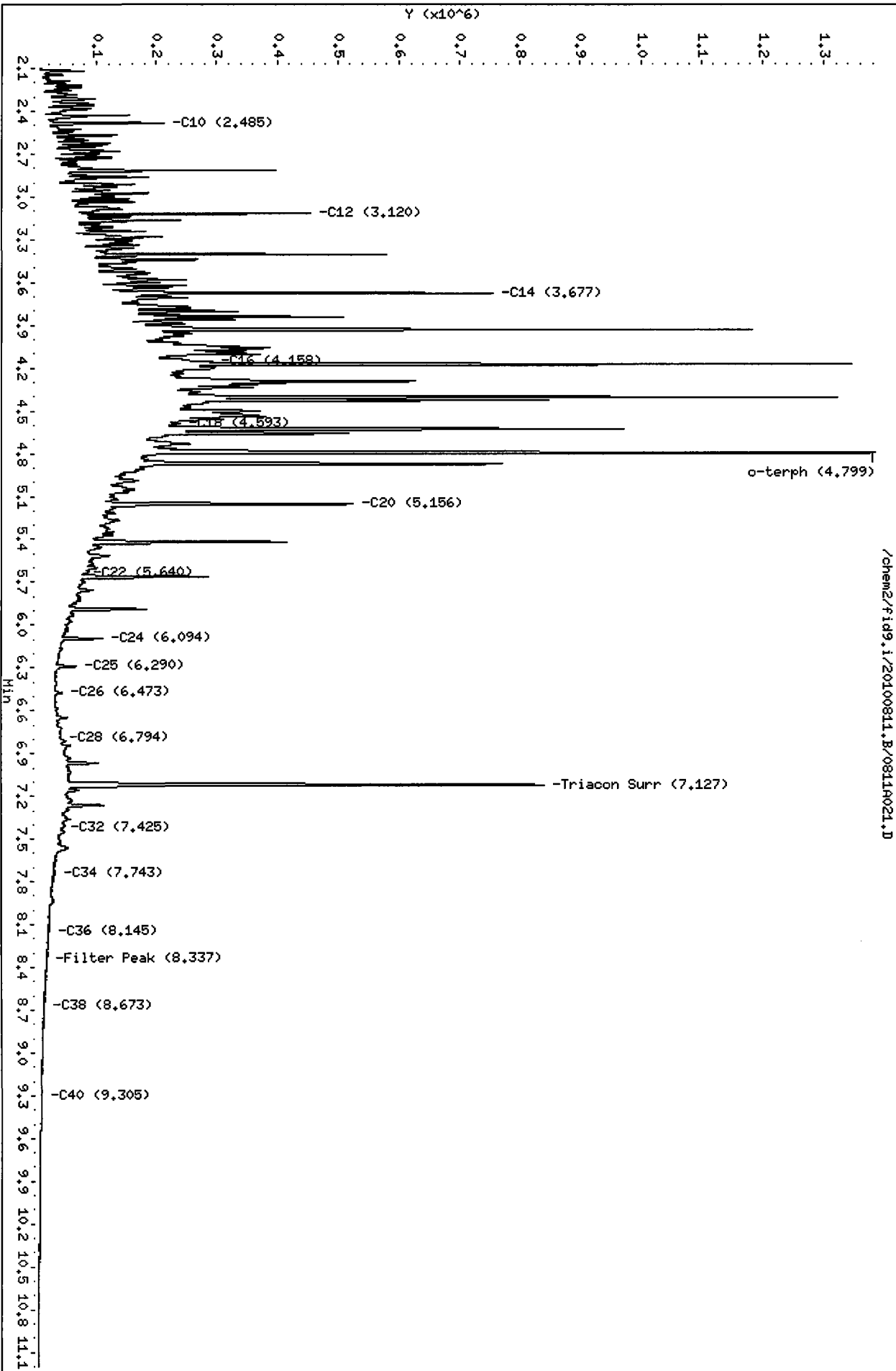
Surrogate	Area	Amount	%Rec
o-Terphenyl	1097561	42.6	94.7
Triacotane	812347	41.0	91.0

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

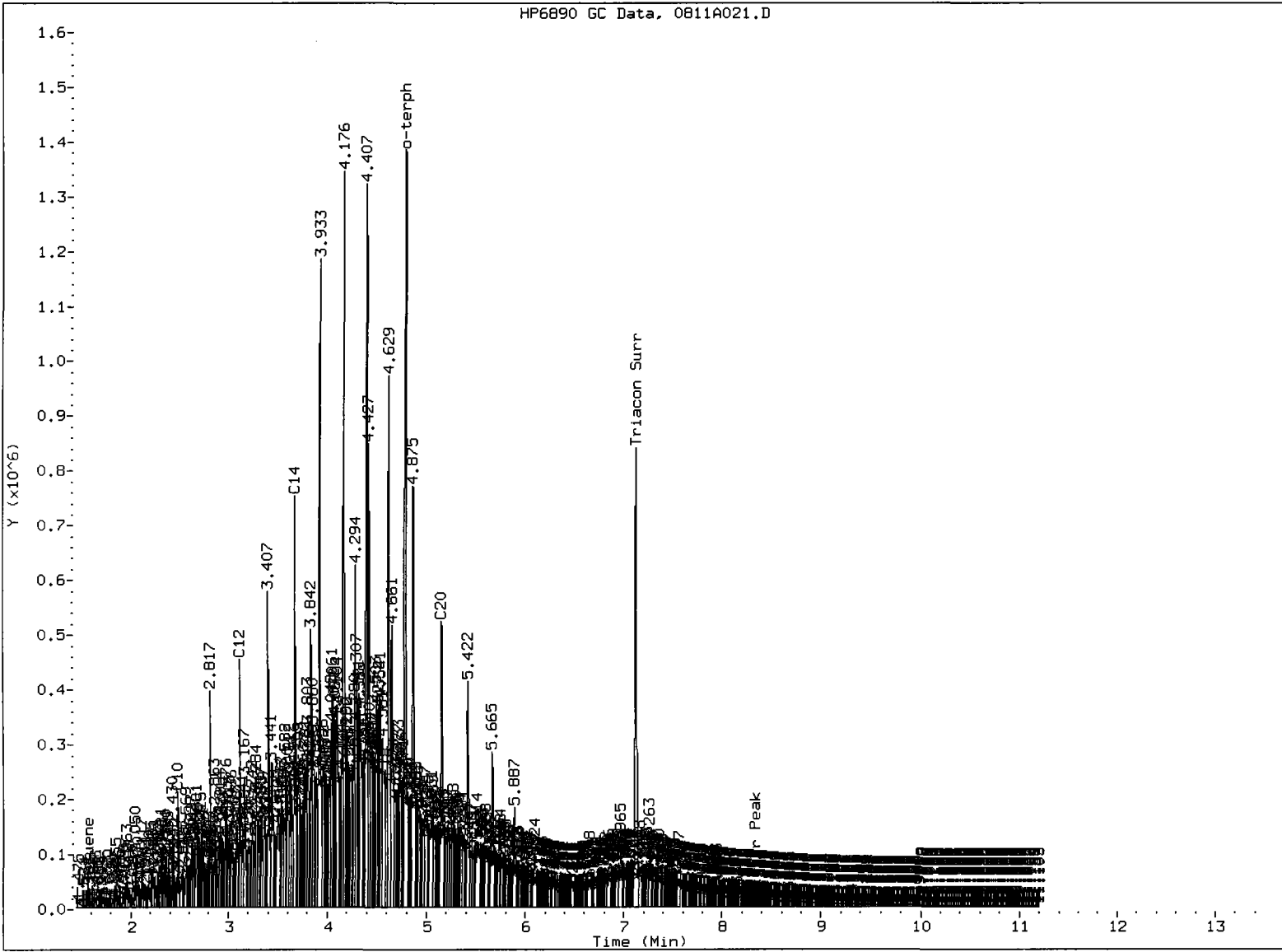
Data File: /chem2/fid9.i/20100811.B/0811A021.D
Date: 11-AUG-2010 20:55
Client ID: PSB10-8.5-10-07 HSD
Sample Info: RG78JMSD

Column phase: RTX-1

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



HP6890 GC Data, 0811A021.D



MANUAL INTEGRATION

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

Analyst: M

Date: 8/2/10

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811A022.D
Method: /chem2/fid9.i/20100811.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 08/12/2010

ARI ID: RG78K
Client ID: PSB10-14-15-073010
Injection: 11-AUG-2010 21:16
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.537	-0.014	1765	1815	GAS (Tol-C12)	530457	25
C8	1.708	-0.009	3176	2299	DIESEL (C12-C24)	146848	6
C10	2.486	0.004	4257	2842	M.OIL (C24-C38)	106958	8
C12	3.124	0.005	2061	1950	AK-102 (C10-C25)	303148	10
C14	3.687	0.011	1299	1710	AK-103 (C25-C36)	86224	17
C16	4.158	0.002	1825	1097			
C18	4.614	0.008	3745	3089			
C20	5.148	0.002	606	653			
C22	5.639	-0.006	715	682			
C24	6.093	-0.002	727	915			
C25	6.292	-0.003	840	1244			
C26	6.472	-0.004	717	1181			
C28	6.807	0.010	1457	2103			
C32	7.433	0.013	964	468	JP-4 (Tol-C14)	583507	36
C34	7.733	-0.011	1200	1835	BUNKERC (C10-C38)	408435	47
Filter Peak	8.344	0.001	755	253			
C36	8.170	0.021	683	256			
C38	8.661	-0.010	728	818			
C40	9.320	0.012	616	231			
o-terph	4.792	-0.002	1288054	1077474	JET-A (C10-C18)	273779	20
Triacon Surr	7.123	-0.023	822036	849131	JP8 (Tol-C16)	619858	35

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

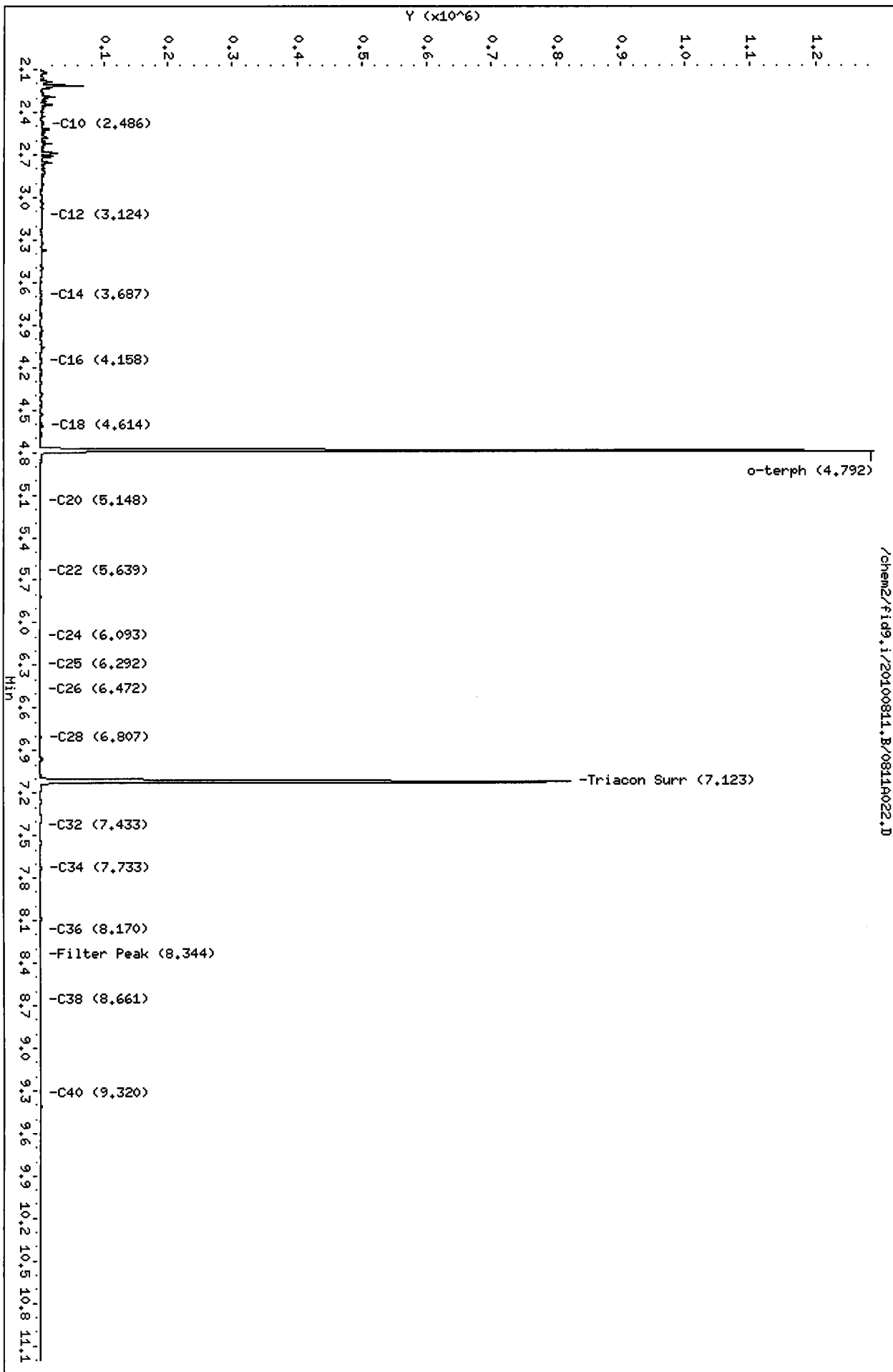
Surrogate	Area	Amount	%Rec
o-Terphenyl	1077474	41.8	92.9
Triacontane	849131	42.8	95.1

MS 8/12/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811A022.D
Date: 11-AUG-2010 21:16
Client ID: PSB10-14-15-073010
Sample Info: RC78K
Column phase: RTX-1

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



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811A023.D
Method: /chem2/fid9.i/20100811.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 08/12/2010

ARI ID: RG78L
Client ID: PSB10-20-25-073010
Injection: 11-AUG-2010 21:38
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.537	-0.014	1300	1381	GAS (Tol-C12)	389198	19
C8	1.708	-0.008	2252	1711	DIESEL (C12-C24)	150234	6
C10	2.486	0.005	3841	2642	M.OIL (C24-C38)	87528	7
C12	3.116	-0.003	1333	860	AK-102 (C10-C25)	294579	10
C14	3.687	0.011	1695	1848	AK-103 (C25-C36)	70438	14
C16	4.158	0.003	2280	1460			
C18	4.614	0.008	5920	4754			
C20	5.145	-0.001	811	804			
C22	5.639	-0.006	816	921			
C24	6.093	-0.002	655	753			
C25	6.290	-0.004	712	957			
C26	6.470	-0.006	524	494			
C28	6.807	0.011	1196	1483			
C32	7.402	-0.018	2121	3594	JP-4 (Tol-C14)	436041	27
C34	7.737	-0.006	1159	364	BUNKERC (C10-C38)	380891	43
Filter Peak	8.344	0.001	552	214			
C36	8.151	0.003	703	587			
C38	8.670	-0.001	579	396			
C40	9.309	0.001	434	194			
o-terph	4.792	-0.002	1251632	1036291	JET-A (C10-C18)	260549	19
Triacon Surr	7.124	-0.021	796323	799019	JP8 (Tol-C16)	469624	27

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

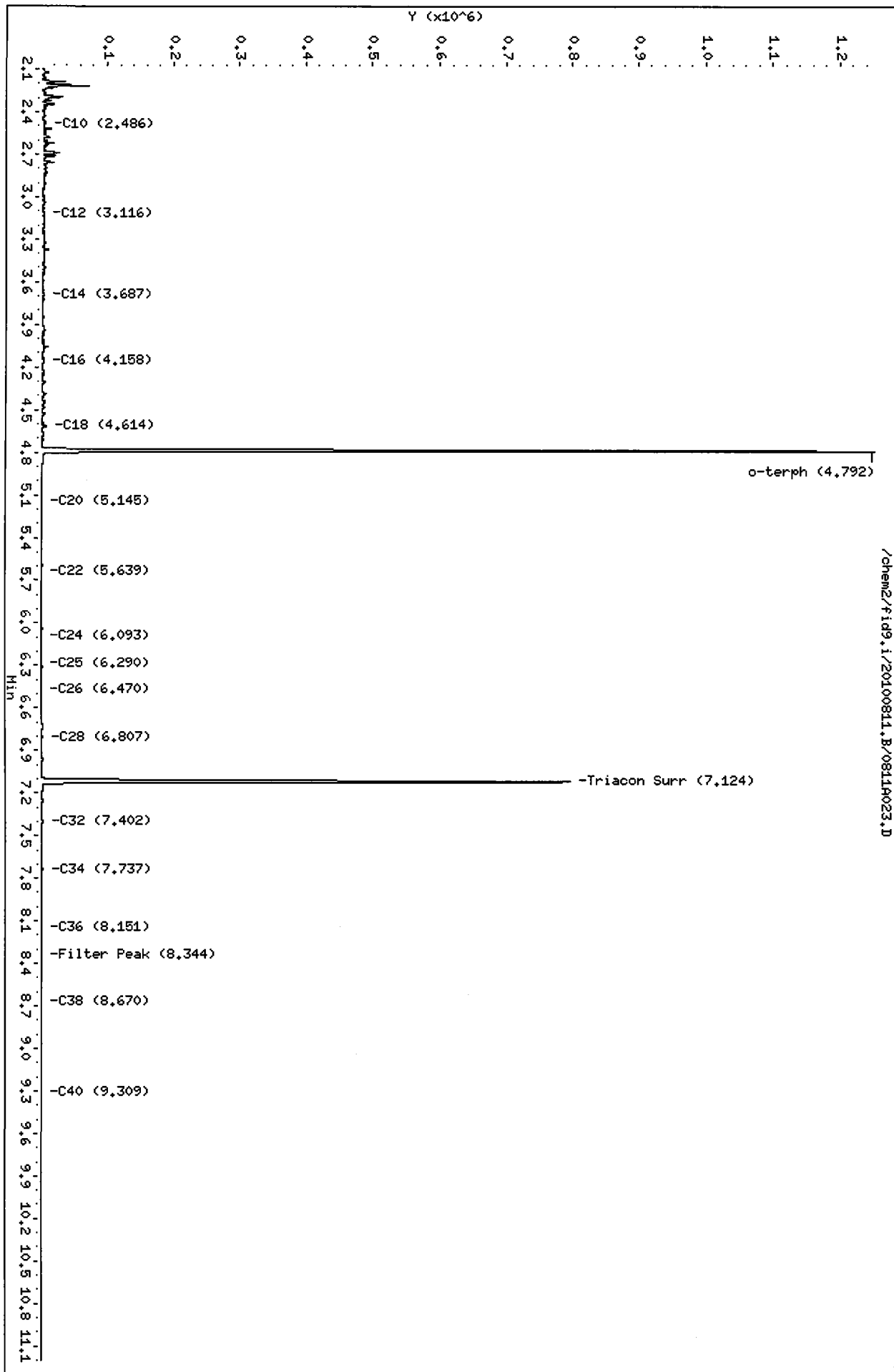
Surrogate	Area	Amount	%Rec
o-Terphenyl	1036291	40.2	89.4
Triacontane	799019	40.3	89.5

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

MS 8/12/10

Data File: /chem2/fid9.i/20100811.B/08114023.D
Date: 11-AUG-2010 21:38
Client ID: PSB10-20-25-073010
Sample Info: RG78L
Column phase: RTX-1

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



/chem2/fid9.i/20100811.B/08114023.D

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811A024.D
Method: /chem2/fid9.i/20100811.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 08/12/2010

ARI ID: RG78S
Client ID: PSB9-8.5-9.5-073010
Injection: 11-AUG-2010 21:59
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.539	-0.012	1757	1601	GAS (Tol-C12)	394984	19
C8	1.709	-0.007	3604	2515	DIESEL (C12-C24)	133817	5
C10	2.487	0.005	3913	2592	M.OIL (C24-C38)	88857	7
C12	3.116	-0.003	1448	1014	AK-102 (C10-C25)	280182	10
C14	3.688	0.012	1042	525	AK-103 (C25-C36)	68848	14
C16	4.150	-0.006	1532	1740			
C18	4.616	0.009	1815	1691			
C20	5.147	0.002	565	612			
C22	5.640	-0.005	733	761			
C24	6.094	0.000	648	803			
C25	6.290	-0.004	654	936			
C26	6.471	-0.005	511	382			
C28	6.806	0.009	1283	2002			
C32	7.433	0.013	669	249	JP-4 (Tol-C14)	448259	27
C34	7.735	-0.008	1017	3290	BUNKERC (C10-C38)	367279	42
Filter Peak	8.342	-0.001	668	288			
C36	8.157	0.008	616	450			
C38	8.681	0.010	733	260			
C40	9.312	0.004	455	97			
o-terph	4.791	-0.002	1214173	981862	JET-A (C10-C18)	251455	18
Triacon Surr	7.122	-0.023	799643	777719	JP8 (Tol-C16)	481194	27

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

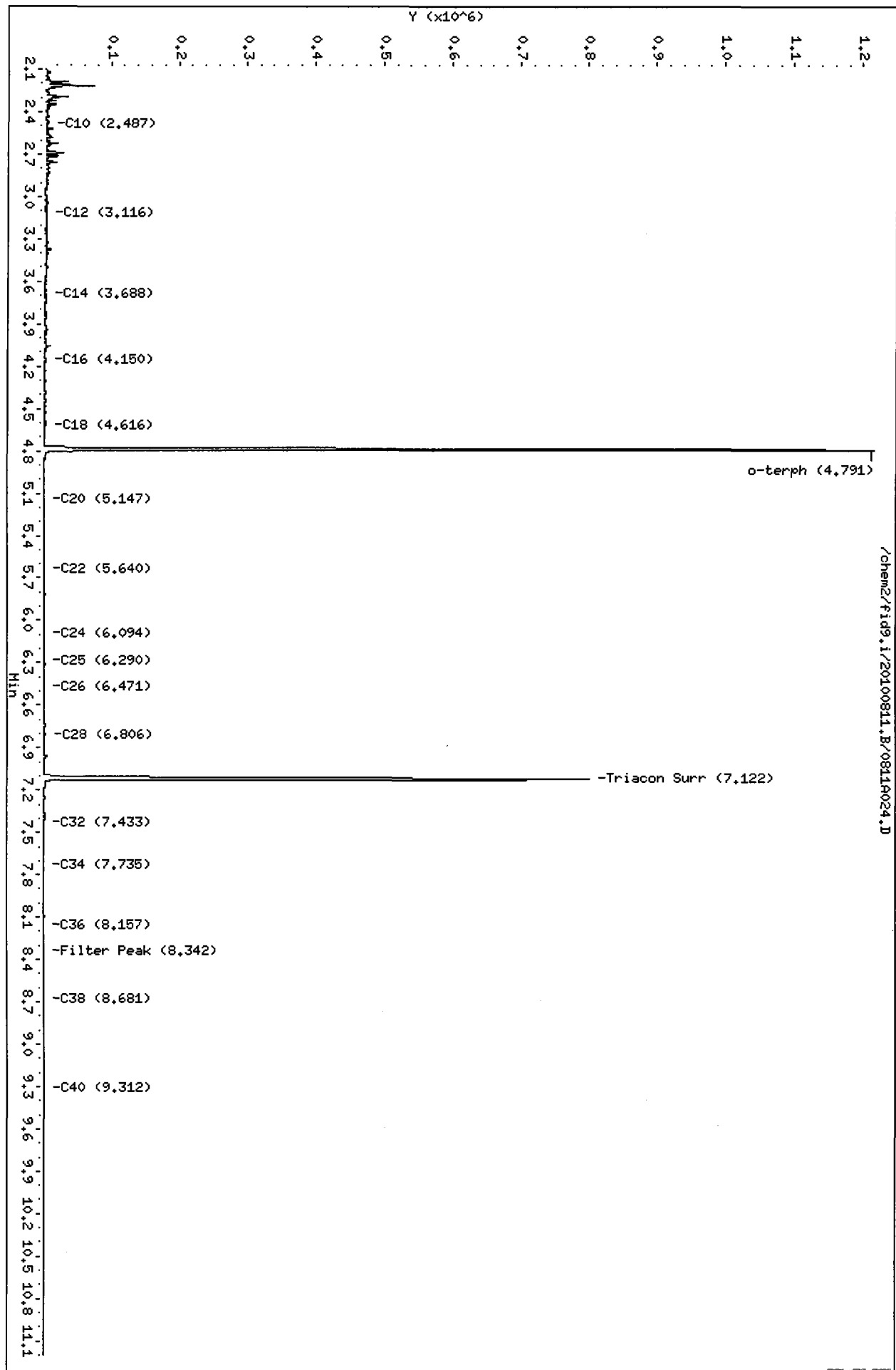
Surrogate	Area	Amount	%Rec
o-Terphenyl	981862	38.1	84.7
Triacontane	777719	39.2	87.1

MS 8/12/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811A024.D
Date: 11-AUG-2010 21:59
Client ID: PSB9-8.5-9.5-073010
Sample Info: RG785
Column phase: RTX-1

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



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811raw.b/0811A025.D ARI ID: RG78LCSS1
 Method: /chem2/fid9.i/20100811.B/ftphfid9a.m Client ID: RG78LCSS1
 Instrument: fid9.i Injection: 11-AUG-2010 22:21
 Operator: MS Dilution Factor: 1
 Report Date: 08/12/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.565	0.014	43604	21949	GAS (Tol-C12)	5101159	243
C8	1.724	0.008	16709	11838	DIESEL (C12-C24)	35401798	1344
C10	2.485	0.003	214686	131970	M.OIL (C24-C38)	440743	34
C12	3.121	0.002	449883	250480	AK-102 (C10-C25)	39586477	1363
C14	3.678	0.002	788379	732819	AK-103 (C25-C36)	304276	61
C16	4.158	0.002	322928	280110			
C18	4.593	-0.014	257378	294824			
C20	5.158	0.012	515352	688607			
C22	5.629	-0.015	86432	130451			
C24	6.093	-0.001	94810	124881			
C25	6.285	-0.009	40958	44914			
C26	6.473	-0.003	17199	33894			
C28	6.808	0.011	4136	7155			
C32	7.402	-0.017	2188	3711	JP-4 (Tol-C14)	10871245	663
C34	7.736	-0.007	1150	2276	BUNKERC (C10-C38)	39896547	4549
Filter Peak	8.346	0.003	304	115			
C36	8.153	0.005	574	795			
C38	8.671	0.000	179	102			
C40	9.306	-0.002	153	65			
o-terph	4.800	0.007	1407068	1823158	JET-A (C10-C18)	28367758	2053
Triacon Surr	7.124	-0.021	862391	854038	JP8 (Tol-C16)	20089044	1142

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
 NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

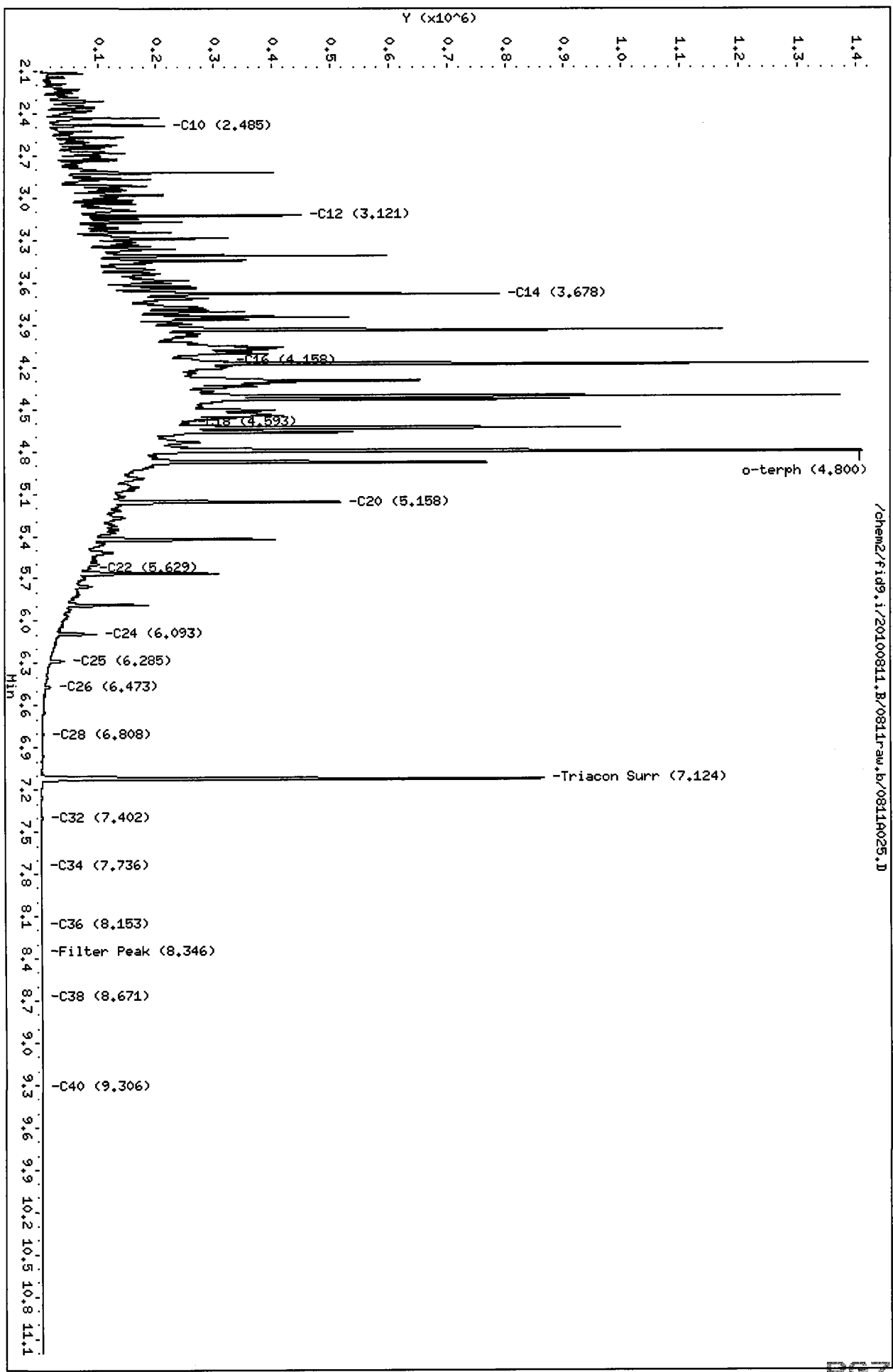
Surrogate	Area	Amount	%Rec
o-Terphenyl	1823158	70.8	157.3
Triacontane	854038	43.1	95.7

MS 8/12/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811r.w.b/0811A025.D
Date: 11-AUG-2010 22:21
Client ID: RG78LCSS1
Sample Info: RG78LCSS1
Column phase: RTX-1

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



/chem2/fid9.i/20100811.B/0811r.w.b/0811A025.D

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811A025.D
 Method: /chem2/fid9.i/20100811.B/ftphfid9a.m
 Instrument: fid9.i
 Operator: MS
 Report Date: 08/12/2010

ARI ID: RG78LCSS1
 Client ID: RG78LCSS1
 Injection: 11-AUG-2010 22:21
 Dilution Factor: 1
 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.565	0.014	43604	21949	GAS (Tol-C12)	5101159	243
C8	1.724	0.008	16709	11838	DIESEL (C12-C24)	36094058	1371
C10	2.485	0.003	214686	131970	M.OIL (C24-C38)	440743	34
C12	3.121	0.002	449883	250480	AK-102 (C10-C25)	40278737	1386 M
C14	3.678	0.002	788379	732819	AK-103 (C25-C36)	304276	61
C16	4.158	0.002	322928	280110			
C18	4.593	-0.014	257378	294824			
C20	5.158	0.012	515352	688607			
C22	5.629	-0.015	86432	130451			
C24	6.093	-0.001	94810	124881			
C25	6.285	-0.009	40958	44914			
C26	6.473	-0.003	17199	33894			
C28	6.808	0.011	4136	7155			
C32	7.402	-0.017	2188	3711	JP-4 (Tol-C14)	10871245	663
C34	7.736	-0.007	1150	2276	BUNKERC (C10-C38)	40588807	4628 M
Filter Peak	8.346	0.003	304	115			
C36	8.153	0.005	574	795			
C38	8.671	0.000	179	102			
C40	9.306	-0.002	153	65			
o-terph	4.800	0.007	1194809	1135191	JET-A (C10-C18)	28367758	2053
Triacon Surr	7.124	-0.021	862391	854038	JP8 (Tol-C16)	20089044	1142

M Indicates manual integration within range.

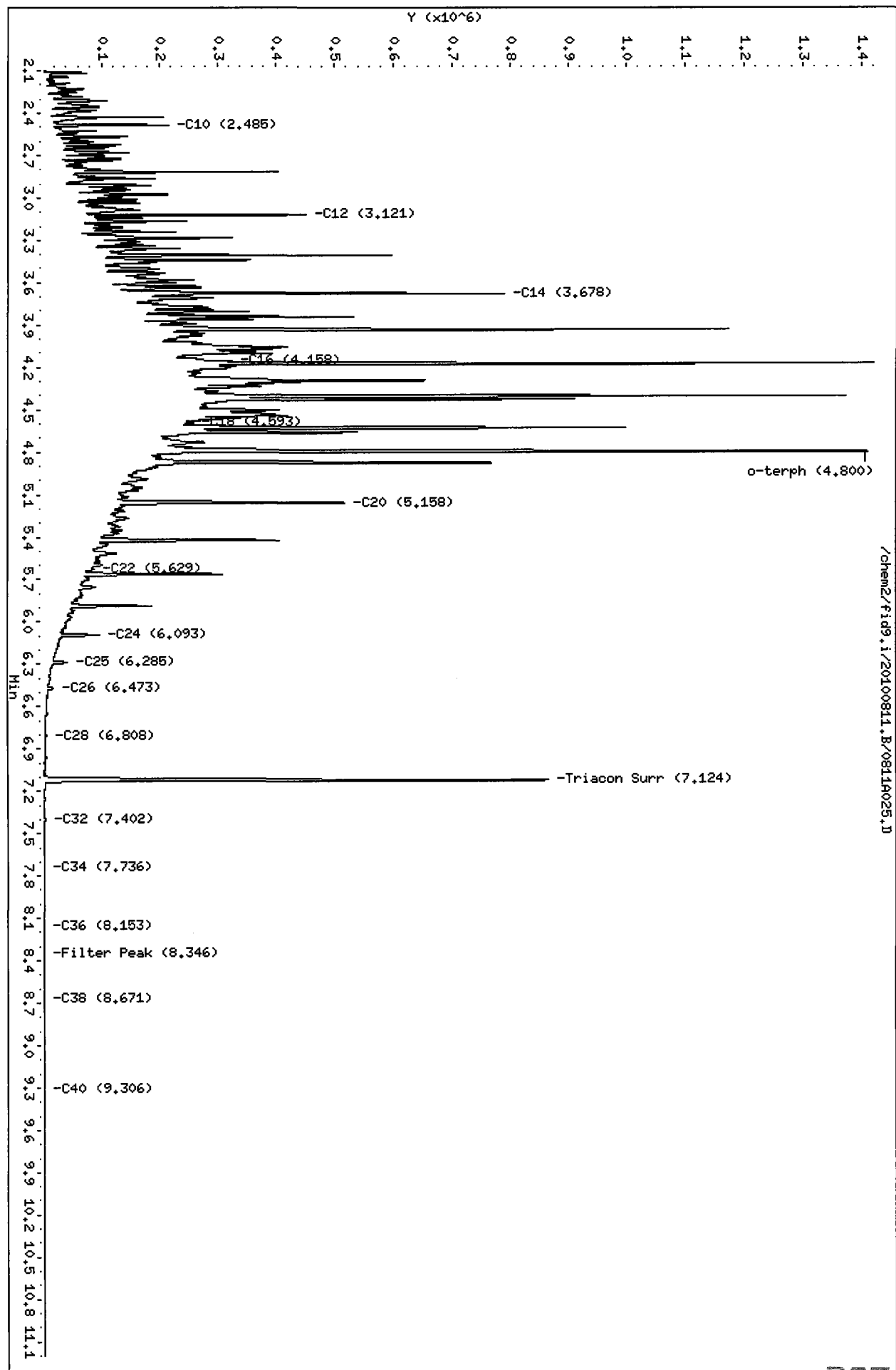
Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
 NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1135191	44.1	97.9
Triacontane	854038	43.1	95.7

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

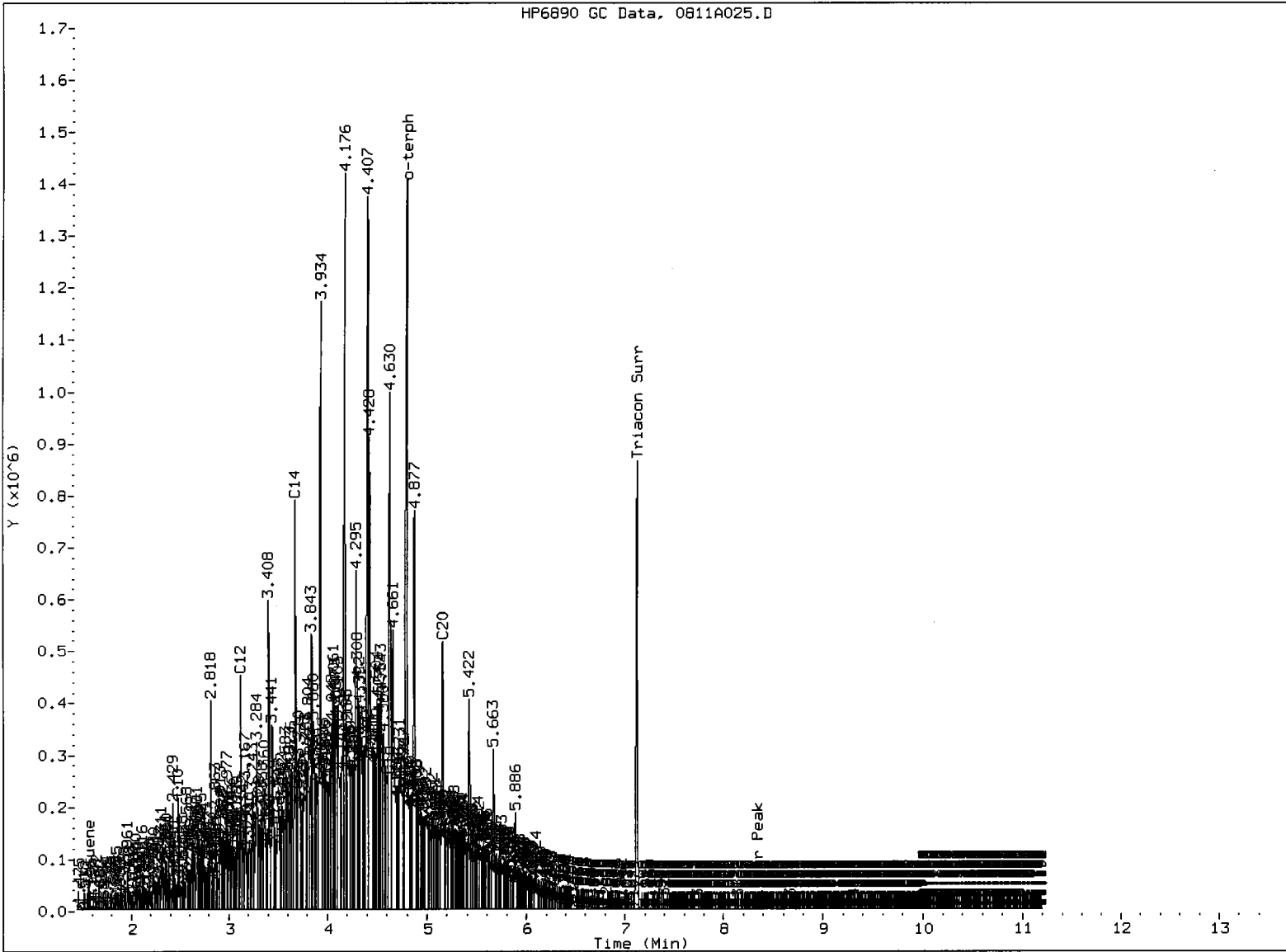
Data File: /chem2/fid9.i/20100811.B/0811A025.D
Date : 11-AUG-2010 22:21
Client ID: RG78LCSS1
Sample Info: RG78LCSS1
Column phase: RTX-1

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



/chem2/fid9.i/20100811.B/0811A025.D

HP6890 GC Data, 0811A025.D



MANUAL INTEGRATION

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

Analyst: MS

Date: 8/12/10

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811A026.D
Method: /chem2/fid9.i/20100811.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 08/12/2010

ARI ID: RG78MBS1
Client ID: RG78MBS1
Injection: 11-AUG-2010 22:42
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.537	-0.014	1757	1826	GAS (Tol-C12)	447529	21
C8	1.709	-0.007	4358	3087	DIESEL (C12-C24)	162929	6
C10	2.487	0.005	4512	3095	M.OIL (C24-C38)	64069	5
C12	3.123	0.004	2100	1949	AK-102 (C10-C25)	323776	11
C14	3.687	0.011	1473	2139	AK-103 (C25-C36)	49716	10
C16	4.147	-0.009	2226	2342			
C18	4.614	0.008	2609	2797			
C20	5.146	0.000	627	748			
C22	5.639	-0.006	699	841			
C24	6.092	-0.002	453	455			
C25	6.292	-0.003	478	547			
C26	6.472	-0.004	349	312			
C28	6.806	0.009	876	1194			
C32	7.430	0.011	559	370	JP-4 (Tol-C14)	501741	31
C34	7.734	-0.009	1005	2547	BUNKERC (C10-C38)	386921	44
Filter Peak	8.340	-0.003	458	151			
C36	8.149	0.001	652	340			
C38	8.684	0.013	376	233			
C40	9.318	0.010	327	168			
o-terph	4.790	-0.004	1220295	1068870	JET-A (C10-C18)	290330	21
Triacon Surr	7.122	-0.023	788969	839741	JP8 (Tol-C16)	545497	31

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

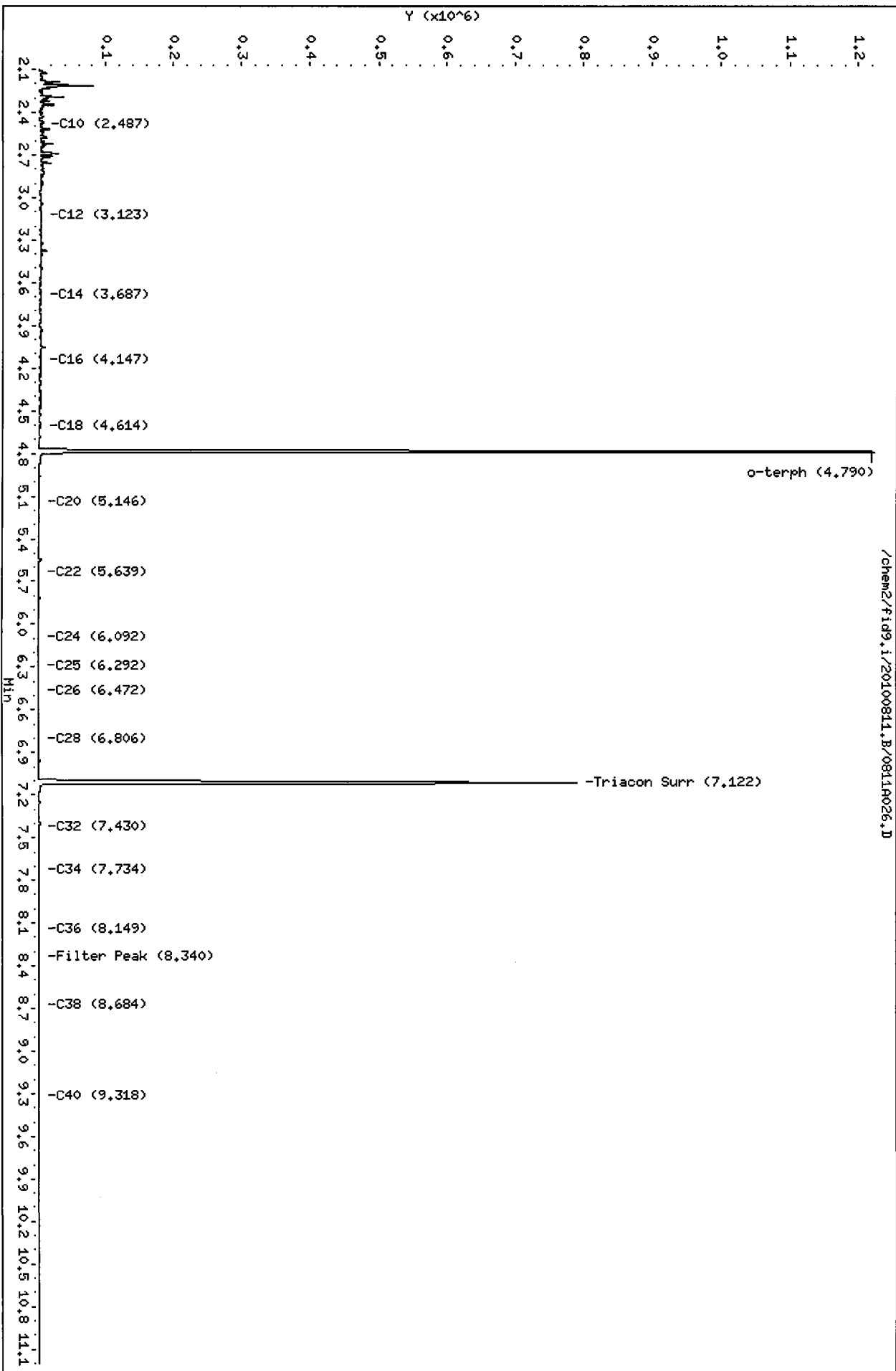
Surrogate	Area	Amount	%Rec
o-Terphenyl	1068870	41.5	92.2
Triacotane	839741	42.3	94.1

ms 8/12/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811A026.D
Date: 11-AUG-2010 22:42
Client ID: RG78HBS1
Sample Info: RG78HBS1
Column phase: RTX-1

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



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811raw.b/0811A027.D ARI ID: DIESEL#3
 Method: /chem2/fid9.i/20100811.B/ftphfid9a.m Client ID: LORA LAKE APTS.
 Instrument: fid9.i Injection: 11-AUG-2010 23:03
 Operator: MS Dilution Factor: 1
 Report Date: 08/12/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.537	-0.014	1775	2004	GAS (Tol-C12)	1000388	48
C8	1.728	0.012	6089	4676	DIESEL (C12-C24)	6581252	250
C10	2.486	0.004	42059	29275	M.OIL (C24-C38)	81815	6
C12	3.120	0.001	79893	47024	AK-102 (C10-C25)	7381272	254
C14	3.674	-0.002	157335	153571	AK-103 (C25-C36)	52920	11
C16	4.153	-0.003	61419	42211			
C18	4.617	0.011	204334	209925			
C20	5.141	-0.004	101324	120430			
C22	5.655	0.010	54634	60603			
C24	6.093	-0.001	16693	22993			
C25	6.290	-0.004	7218	10904			
C26	6.476	0.000	2716	4603			
C28	6.793	-0.003	206	99			
C32	7.425	0.005	125	26	JP-4 (Tol-C14)	2093472	128
C34	7.747	0.003	207	121	BUNKERC (C10-C38)	7441472	848
Filter Peak	8.345	0.002	301	192			
C36	8.149	0.000	265	51			
C38	8.673	0.002	274	157			
C40	9.307	-0.001	166	63			
o-terph	4.792	-0.001	1364354	1285233	JET-A (C10-C18)	5494899	398
Triacon Surr	7.146	0.001	41	17	JP8 (Tol-C16)	3806985	216

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
 NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

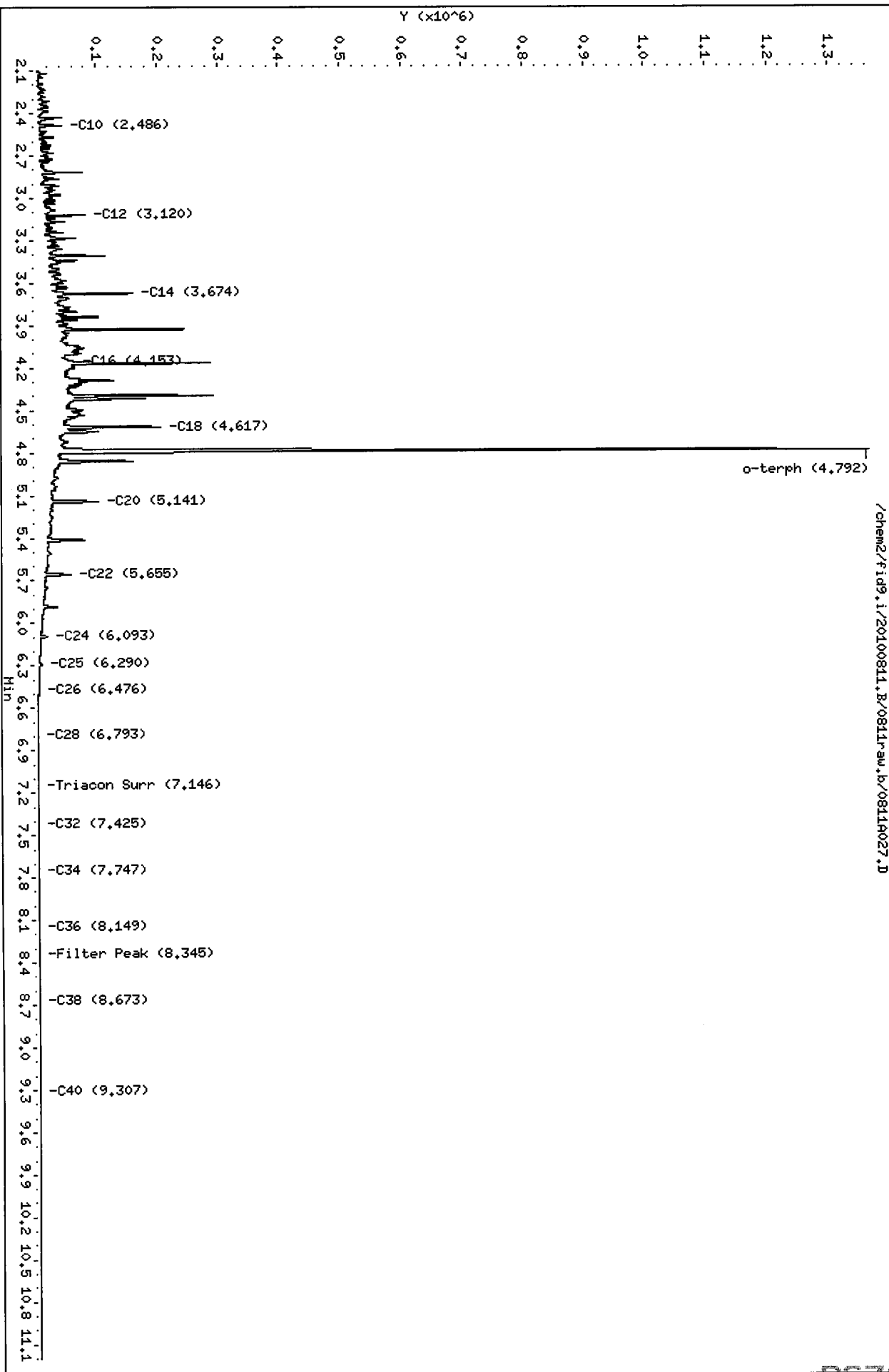
Surrogate	Area	Amount	%Rec
o-Terphenyl	1285233	49.9	110.9
Triacontane	17	0.0	0.0

Mu 8/12/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/ftid9.i/20100811.B/0811raw.b/0811A027.D
Date: 11-AUG-2010 23:03
Client ID: LORA LAKE APTS.
Sample Info: DIESEL#3
Column phase: RTX-1

Instrument: ftid9.i
Operator: HS
Column diameter: 0.25



Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811A027.D
Method: /chem2/fid9.i/20100811.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 08/12/2010

ARI ID: DIESEL#3
Client ID:
Injection: 11-AUG-2010 23:03
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.537	-0.014	1775	2004	GAS (Tol-C12)	1000388	48
C8	1.728	0.012	6089	4676	DIESEL (C12-C24)	6718111	255
C10	2.486	0.004	42059	29275	M.OIL (C24-C38)	81815	6
C12	3.120	0.001	79893	47024	AK-102 (C10-C25)	7518131	259 M
C14	3.674	-0.002	157335	153571	AK-103 (C25-C36)	52920	11
C16	4.153	-0.003	61419	42211			
C18	4.617	0.011	204334	209925			
C20	5.141	-0.004	101324	120430			
C22	5.655	0.010	54634	60603			
C24	6.093	-0.001	16693	22993			
C25	6.290	-0.004	7218	10904			
C26	6.476	0.000	2716	4603			
C28	6.793	-0.003	206	99			
C32	7.425	0.005	125	26	JP-4 (Tol-C14)	2093472	128
C34	7.747	0.003	207	121	BUNKERC (C10-C38)	7578331	864 M
Filter Peak	8.345	0.002	301	192			
C36	8.149	0.000	265	51			
C38	8.673	0.002	274	157			
C40	9.307	-0.001	166	63			
o-terph	4.792	-0.001	1321744	1149174	JET-A (C10-C18)	5494899	398
Triacon Surr	7.146	0.001	41	17	JP8 (Tol-C16)	3806985	216

M Indicates manual integration within range.

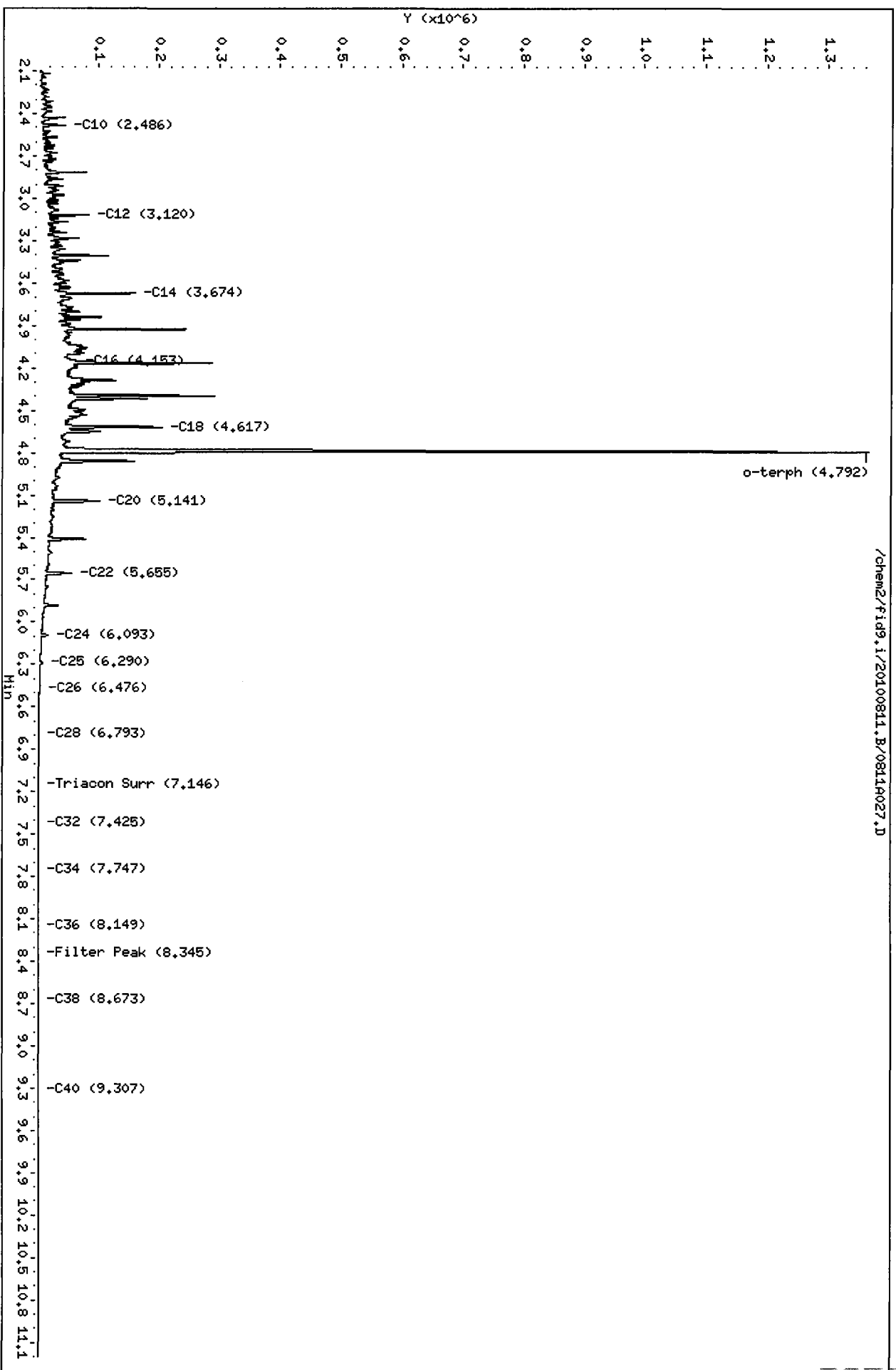
Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1149174	44.6	99.1
Triacontane	17	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

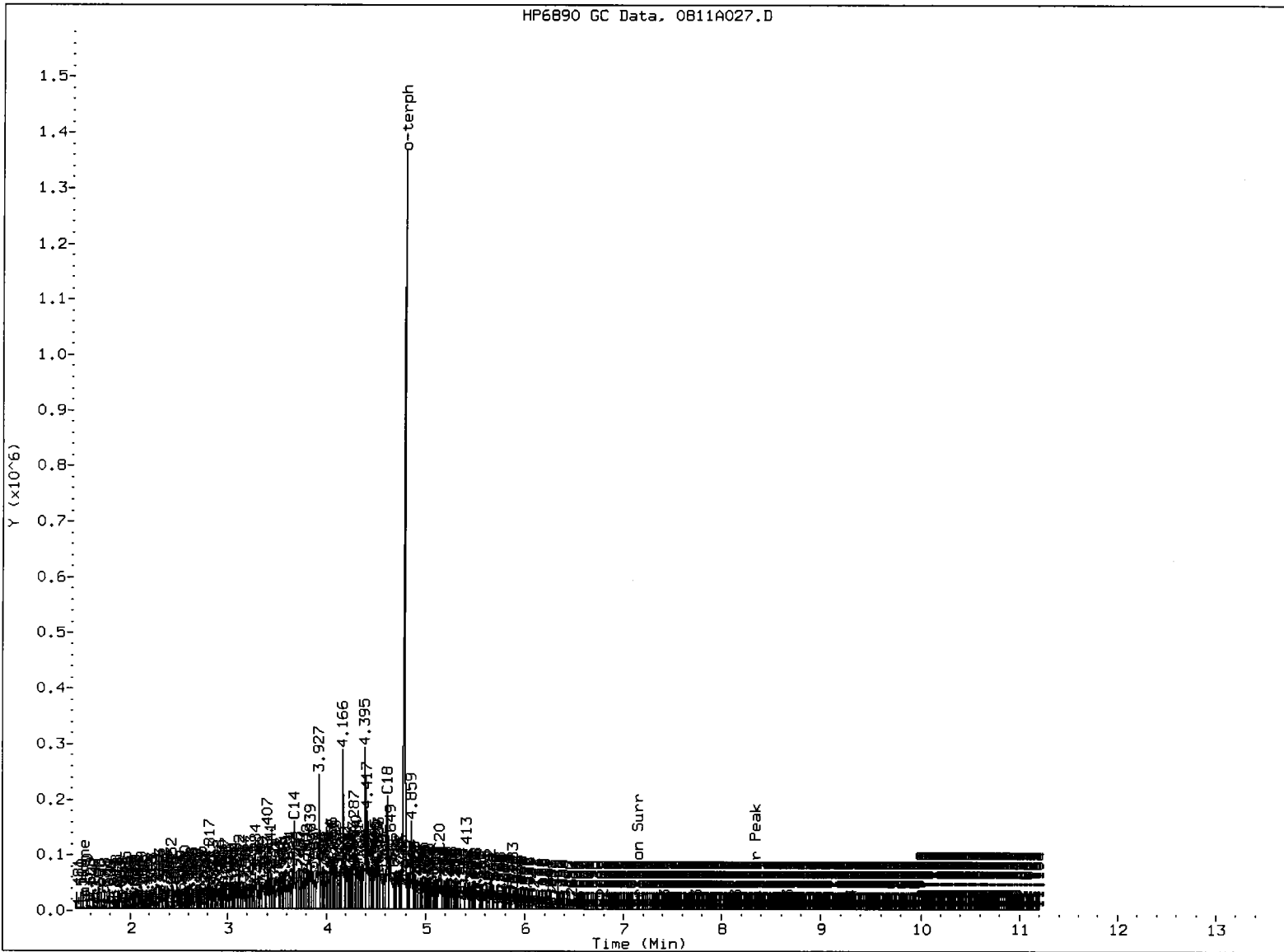
Data File: /chem2/fid9.i/20100811.B/0811A027.D
Date: 11-01-2010 23:03
Client ID:
Sample Info: DIESEL#3
Column phase: RTX-1

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



/chem2/fid9.i/20100811.B/0811A027.D

HP6890 GC Data, 0B11A027.D



MANUAL INTEGRATION

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

Analyst: ms

Date: 8/12/10

Analytical Resources Inc.
 NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811raw.b/0811A028.D ARI ID: MOIL#3
 Method: /chem2/fid9.i/20100811.B/ftphfid9a.m Client ID: LORA LAKE APTS.
 Instrument: fid9.i Injection: 11-AUG-2010 23:25
 Operator: MS Dilution Factor: 1
 Report Date: 08/12/2010 Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.562	0.011	1183	2270	GAS (Tol-C12)	27123	1
C8	1.713	-0.003	533	272	DIESEL (C12-C24)	761433	29
C10	2.485	0.004	860	496	M.OIL (C24-C38)	7300465	571
C12	3.116	-0.003	64	22	AK-102 (C10-C25)	926027	32
C14	3.673	-0.003	58	40	AK-103 (C25-C36)	6456315	1289
C16	4.158	0.002	68	52			
C18	4.618	0.012	552	639			
C20	5.144	-0.001	2596	4255			
C22	5.645	0.001	10291	3032			
C24	6.096	0.001	25877	9068			
C25	6.292	-0.002	33135	10317			
C26	6.475	-0.001	39252	16199			
C28	6.797	0.000	49933	12842			
C32	7.425	0.005	63088	45262	JP-4 (Tol-C14)	29443	2
C34	7.741	-0.002	51827	51113	BUNKERC (C10-C38)	8067250	920
Filter Peak	8.339	-0.004	26740	10365			
C36	8.144	-0.005	32578	17259			
C38	8.669	-0.002	18588	8333			
C40	9.310	0.002	9386	7520			
o-terph	4.783	-0.010	1790	2449	JET-A (C10-C18)	23621	2
Triacon Surr	7.161	0.016	62140	32532	JP8 (Tol-C16)	30986	2

M Indicates manual integration within range.

Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
 NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

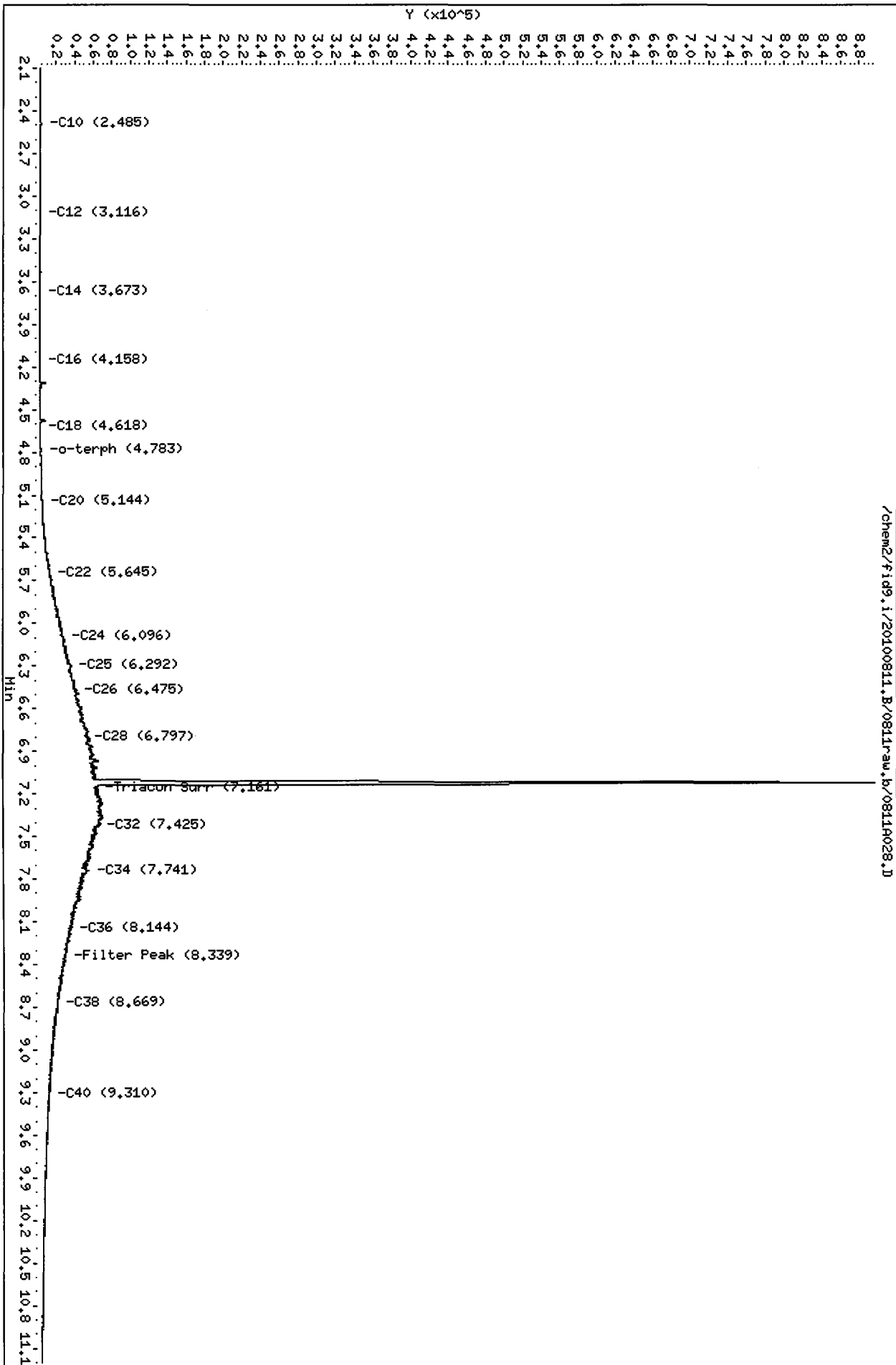
Surrogate	Area	Amount	%Rec
o-Terphenyl	2449	0.1	0.2
Triacotane	32532	1.6	3.6

M 8/12/10

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/0811raw.b/0811A028.D
Date: 11-AUG-2010 23:25
Client ID: LORA LAKE APTS.
Sample Info: M01L#3

Instrument: fid9.i
Operator: MS
Column diameter: 0.25
Column phase: RTX-1



/chem2/fid9.i/20100811.B/0811raw.b/0811A028.D

Analytical Resources Inc.
NWTPH Quantitation Report

Data file: /chem2/fid9.i/20100811.B/0811A028.D
Method: /chem2/fid9.i/20100811.B/ftphfid9a.m
Instrument: fid9.i
Operator: MS
Report Date: 08/12/2010

ARI ID: MOIL#3
Client ID:
Injection: 11-AUG-2010 23:25
Dilution Factor: 1
Macro: 28-JUN-2010

FID:9 RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	1.562	0.011	1183	2270	GAS (Tol-C12)	27123	1
C8	1.713	-0.003	533	272	DIESEL (C12-C24)	761433	29
C10	2.485	0.004	860	496	M.OIL (C24-C38)	6433330	503
C12	3.116	-0.003	64	22	AK-102 (C10-C25)	926027	32
C14	3.673	-0.003	58	40	AK-103 (C25-C36)	5589181	1116 M
C16	4.158	0.002	68	52			
C18	4.618	0.012	552	639			
C20	5.144	-0.001	2596	4255			
C22	5.645	0.001	10291	3032			
C24	6.096	0.001	25877	9068			
C25	6.292	-0.002	33135	10317			
C26	6.475	-0.001	39252	16199			
C28	6.797	0.000	49933	12842			
C32	7.425	0.005	63088	45262	JP-4 (Tol-C14)	29443	2
C34	7.741	-0.002	51827	51113	BUNKERC (C10-C38)	7200116	821 M
Filter Peak	8.339	-0.004	26740	10365			
C36	8.144	-0.005	32578	17259			
C38	8.669	-0.002	18588	8333			
C40	9.310	0.002	9386	7520			
o-terph	4.783	-0.010	1790	2449	JET-A (C10-C18)	23621	2
Triacon Surr	7.128	-0.017	831986	900822	JP8 (Tol-C16)	30986	2

M Indicates manual integration within range.

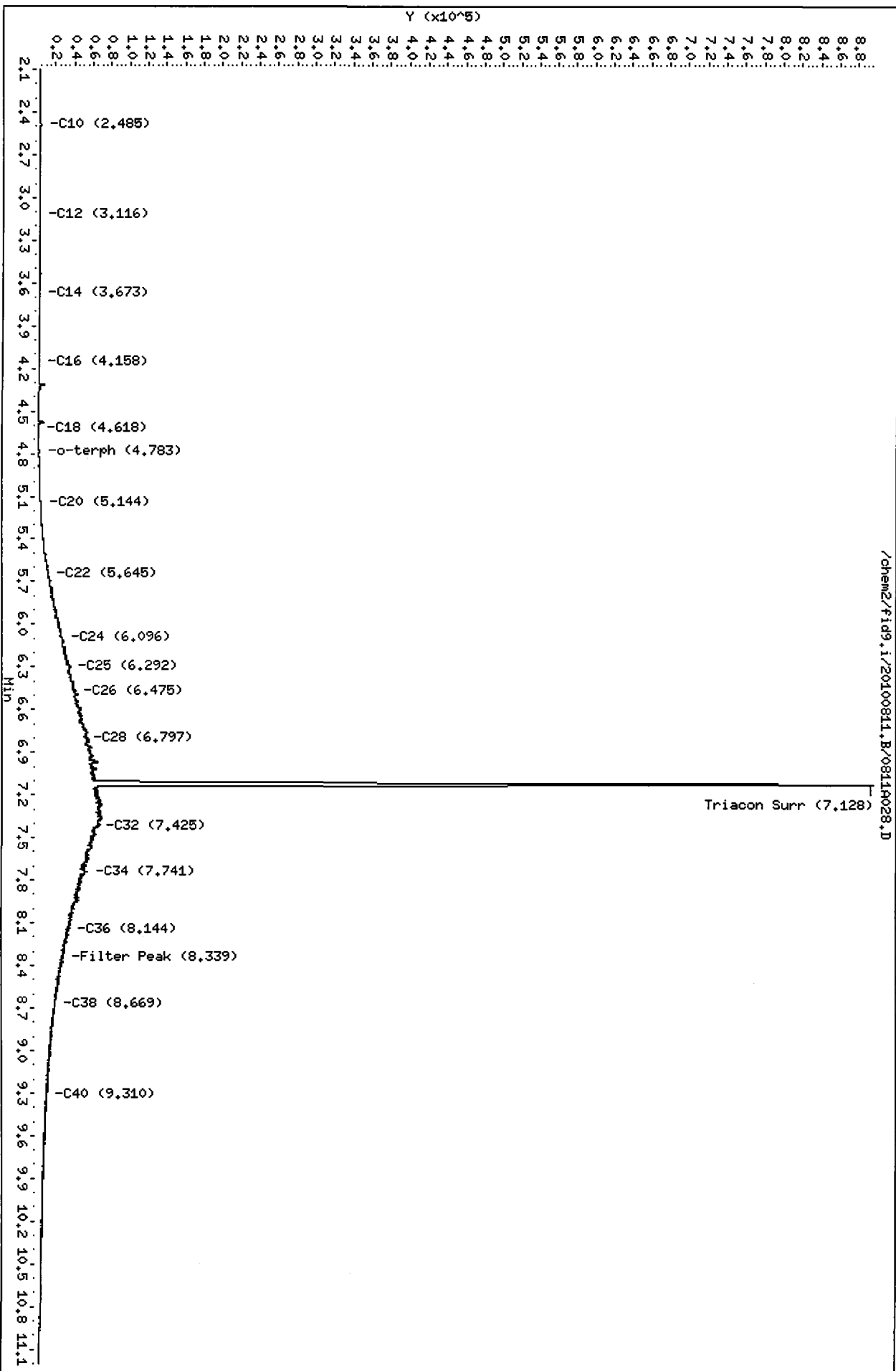
Range Times: NW Diesel(3.119 - 6.095) AK102(2.48 - 6.29) Jet A(2.48 - 4.61)
NW M.Oil(6.09 - 8.67) AK103(6.29 - 8.15) OR Diesel(2.48 - 6.80)

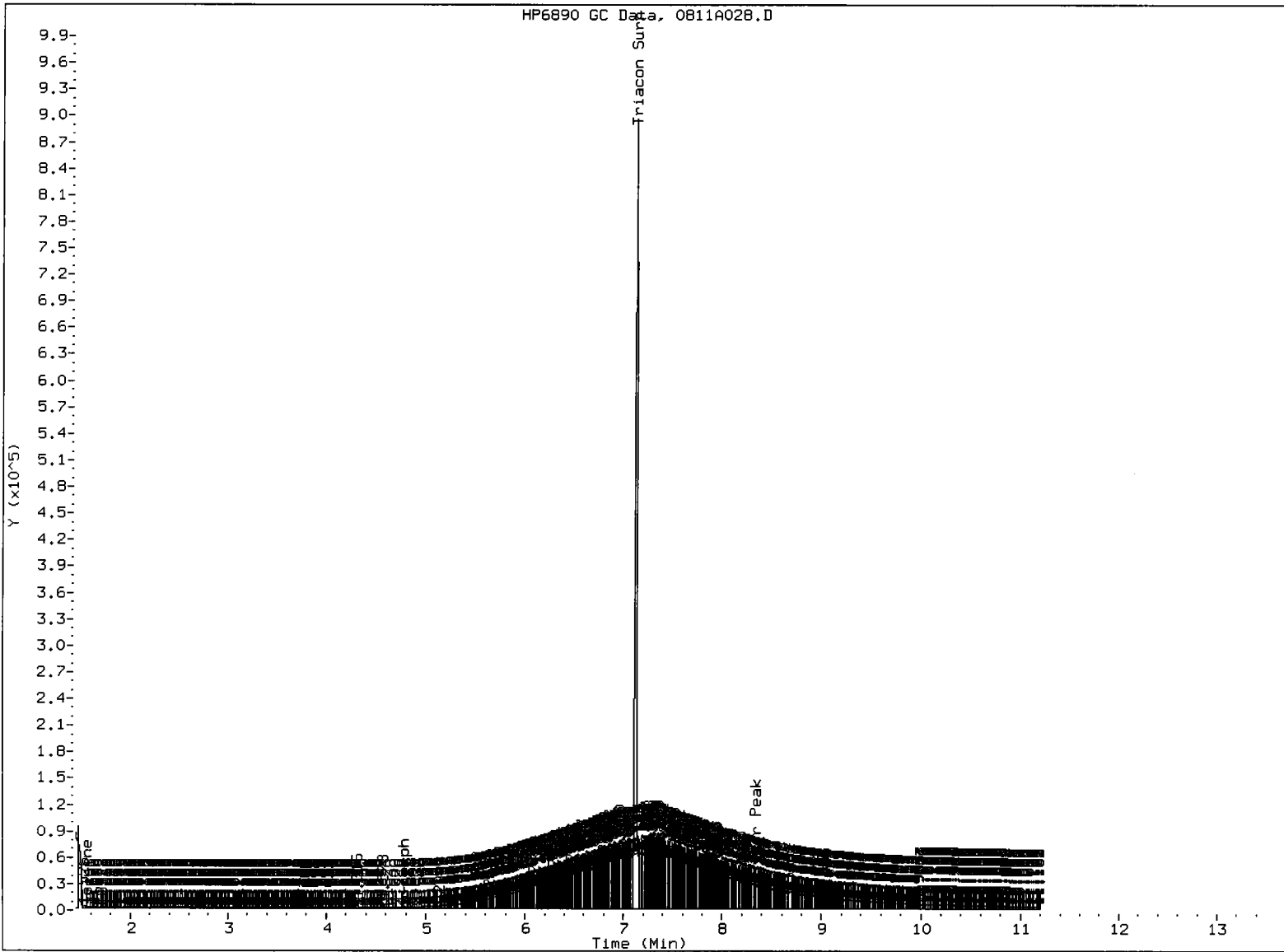
Surrogate	Area	Amount	%Rec
o-Terphenyl	2449	0.1	0.2
Triacontane	900822	45.4	100.9

Analyte	RF	Curve Date
o-Terph Surr	25762.2	28-JUL-2010
Triacon Surr	19832.1	28-JUL-2010
Gas	21009.8	15-JUN-2010
Diesel	26331.0	28-JUL-2010
Motor Oil	12787.0	28-JUL-2010
AK102	29053.0	28-JUL-2010
AK103	5009.0	26-JUL-2010
JP4	16396.5	09-JUN-2010
JetA	13819.1	11-JUN-2010
Bunker C	8770.6	05-JAN-2010
JP-8	17594.0	25-MAY-2010

Data File: /chem2/fid9.i/20100811.B/08110028.D
 Date : 11-AUG-2010 23:25
 Client ID:
 Sample Info: HDIL#3
 Column phase: RTX-1

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





MANUAL INTEGRATION

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

Analyst: Date: 8/12/10

**TPHG/BETX Raw Data
Preparation Log**

ARI Job ID: RG78



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Volatile Organics Extraction Bench Sheet

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

ARI Project No. _____

Client ID/Project _____

Extraction Date _____

MeOH Lot No. _____

Analyst _____

1st Extraction: 8/6/03

2nd Extraction: _____

Lab ID	Vial No.	Preservative		Method 5035 Sample Weight			MeOH Spill Volume	Comments	
		NaHSO ₃	CH ₃ OH	Vial Weight	Tare (from vial)	Sample Weight			Extract Volume
1	RG58 E 4		X	35.98	28.110	7.87	5	900	
2	F 7		X	38.51	28.158	10.352			
3	K S		X	39.00	27.673	11.327			
4	L S		X	37.14	27.696	9.444			
5	R 3		X	37.70	27.828	9.872			
6	S 5		X	40.01	28.188	11.825			
7									
8									
9	RG78 A 4		X	36.56	27.607	8.959	5	900	
10	B 4		X	37.37	27.847	9.523			
11	D 5		X	33.79	27.734	6.059			
12	F 1		X	37.66	28.074	9.586			
13	H 5		X	38.33	28.100	10.23			
14	I 1		X	37.95	28.111	9.839			
15	J 2		X	37.39	27.672	9.718			
16	K 3		X	38.23	28.045	10.185			
17	L 4		X	37.90	28.132	9.768			
18									
19									
20									
Balance ID:									

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

Surrogate: _____
Spike: _____



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Volatile Organics Extraction Bench Sheet

(8260B, 8260B-SIM, 802, KWTPH-GX, AK-101, TPH-G, VPH, TCLP-ZHE)

ARI Project No. _____

Client ID/Project _____

Extraction Date _____

MeOH Lot No. _____

Analyst _____

1st Extraction: 8/12/10

2nd Extraction: _____

Lab ID	Vial No.	Preservative		Method 5035 Sample Weight					Comments
		NaHSO ₃	CH ₃ OH	Vial Weight	Tare (from vial)	Sample Weight	Extract Volume	MeOH Spilt Volume	
1	1		A	36.98	27.751	9.229	S	900	
2	3		X	34.67	27.757	6.913	J	L	
3	3		X	36.51	28.003	8.507			
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
Balance ID:									

Surrogate: _____

Spike: _____

Solution ID _____

Concentration _____

Amount Spiked _____

Analyst _____

Witness _____

RG78 : 01298

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

ARI Job ID: RG78

Analytical Resources Inc.: Organics Instrument Log
PID-2 Serial No.: 33033A-33620

Date: 7/28/10 Analysis: NWTPRG/BETX Analyst: MH
 GC Program: BETX1 Column No: 832217 Column Type: RTX502-2
 Instrument Tune (.U or .CT.): _____ EM Voltage: _____
 Calibration File: _____ Curve Date: 7/28/10

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

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

MH 7/30/10

Maintenance / Comments

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



VOA Analyst Notes / Corrective Action Log

ARI Project ID: Gas/BTEX Curve Client ID: _____

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

Parameter(s): Gas/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: 7/28/10 Analysis Start Date: 7/28/10

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

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

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

Gas ICU Targeted 2.5
BTEX ICU Targeted 25

Additional Details on Reverse: Yes / No

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

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

Analytical Resources Inc.
 BETX/Gas Quantitation Report

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

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

FID Surrogates

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

PETROLEUM HYDROCARBONS (FID)

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

* Surrogate areas are subtracted from Total Area

PID Surrogates

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

AROMATICS (PID)

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

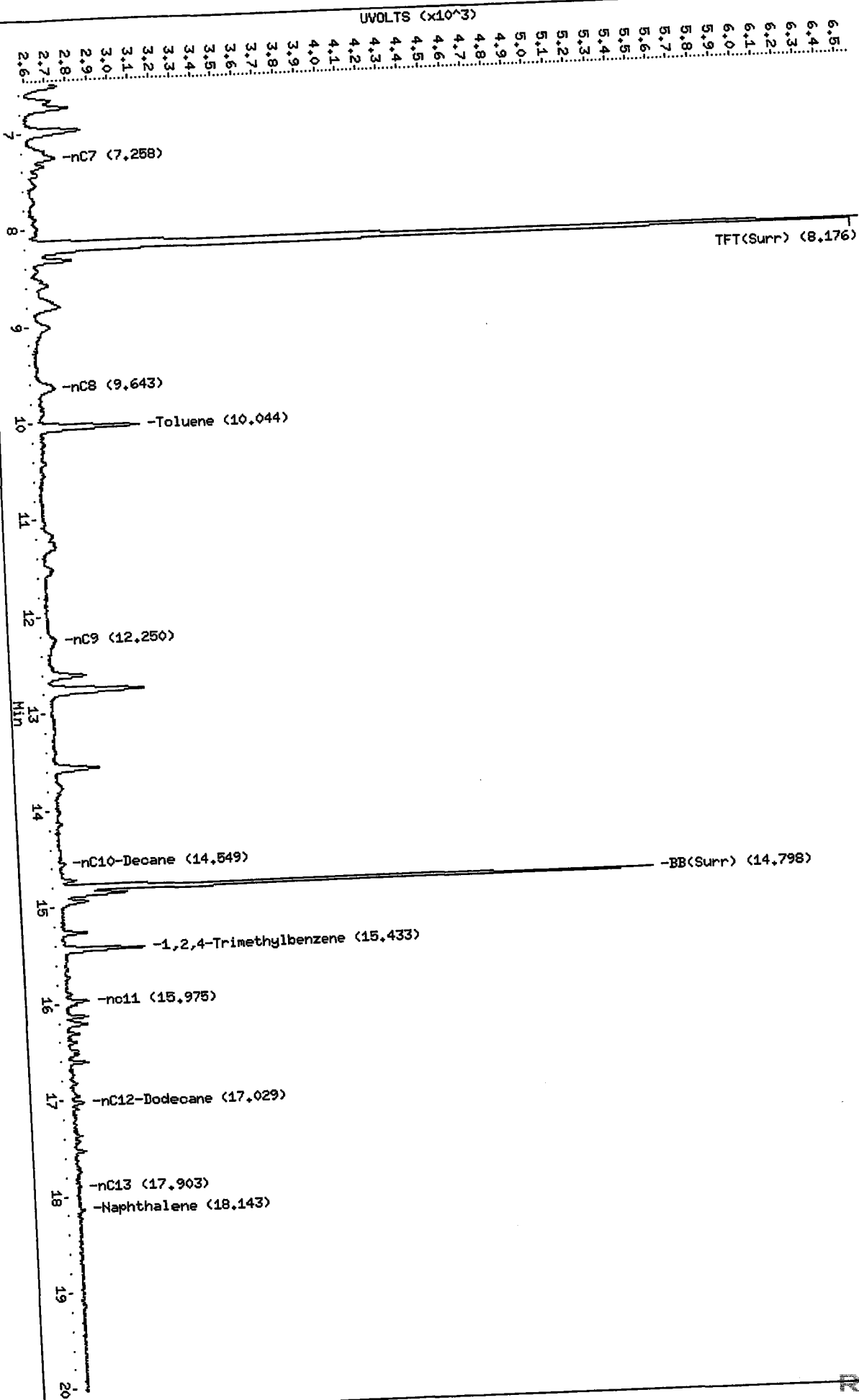
A Indicates Peak Area was used for quantitation instead of Height
 N Indicates peak peak was manually integrated

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

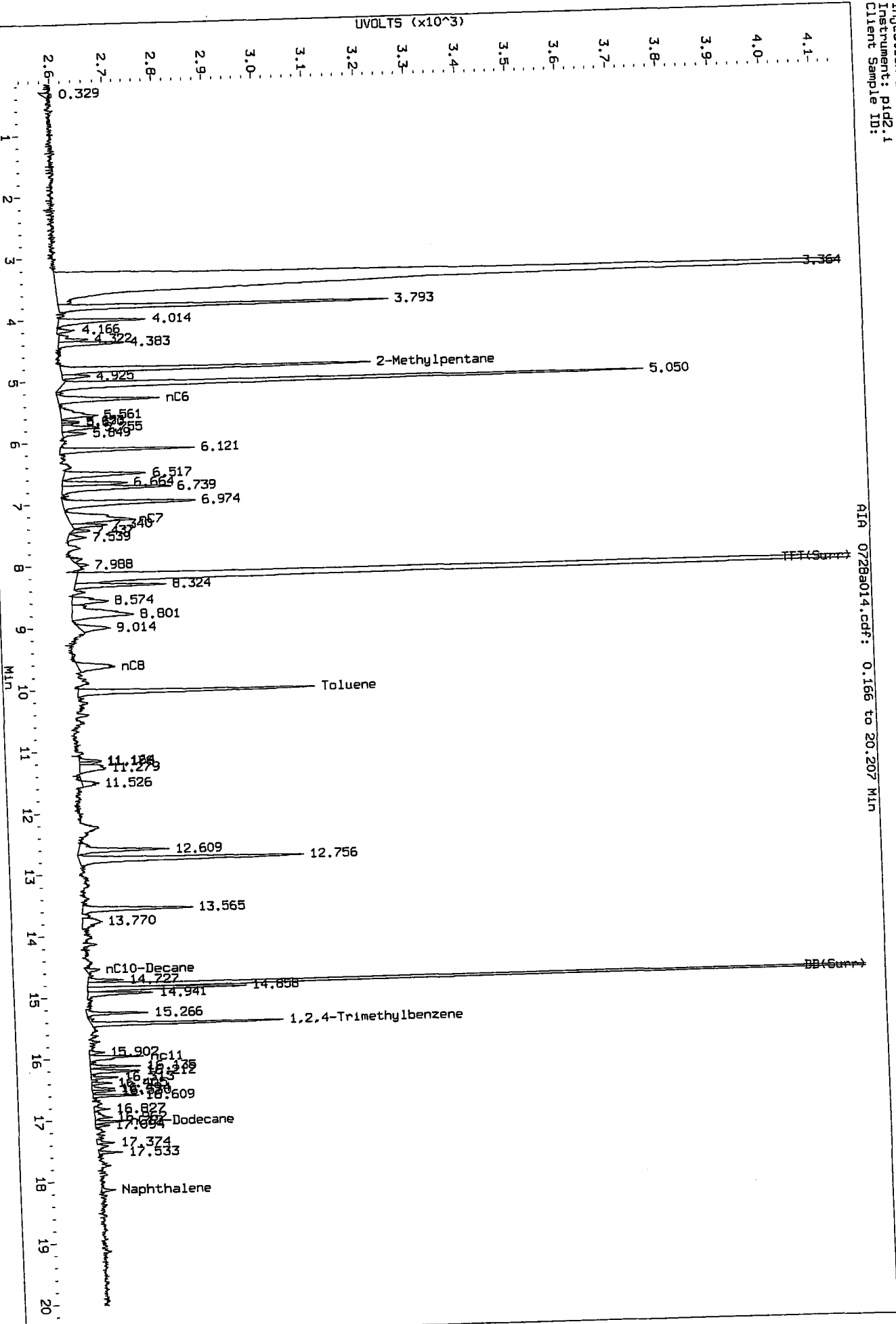
Column phase: RTX 502-2 FID

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

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



Data File: /chem3/p1d2.1/072810-1.b/0728a014.d/0728a014.cdf
Injection Date: 28-JUL-2010 13:24
Instrument: p1d2.1
Client Sample ID:



AIA 0728a014.cdf: 0.166 to 20.207 Min

Analytical Resources Inc.
 BETX/Gas Quantitation Report

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

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

=====

FID Surrogates

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

PETROLEUM HYDROCARBONS (FID)

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

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

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

AROMATICICS (PID)

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

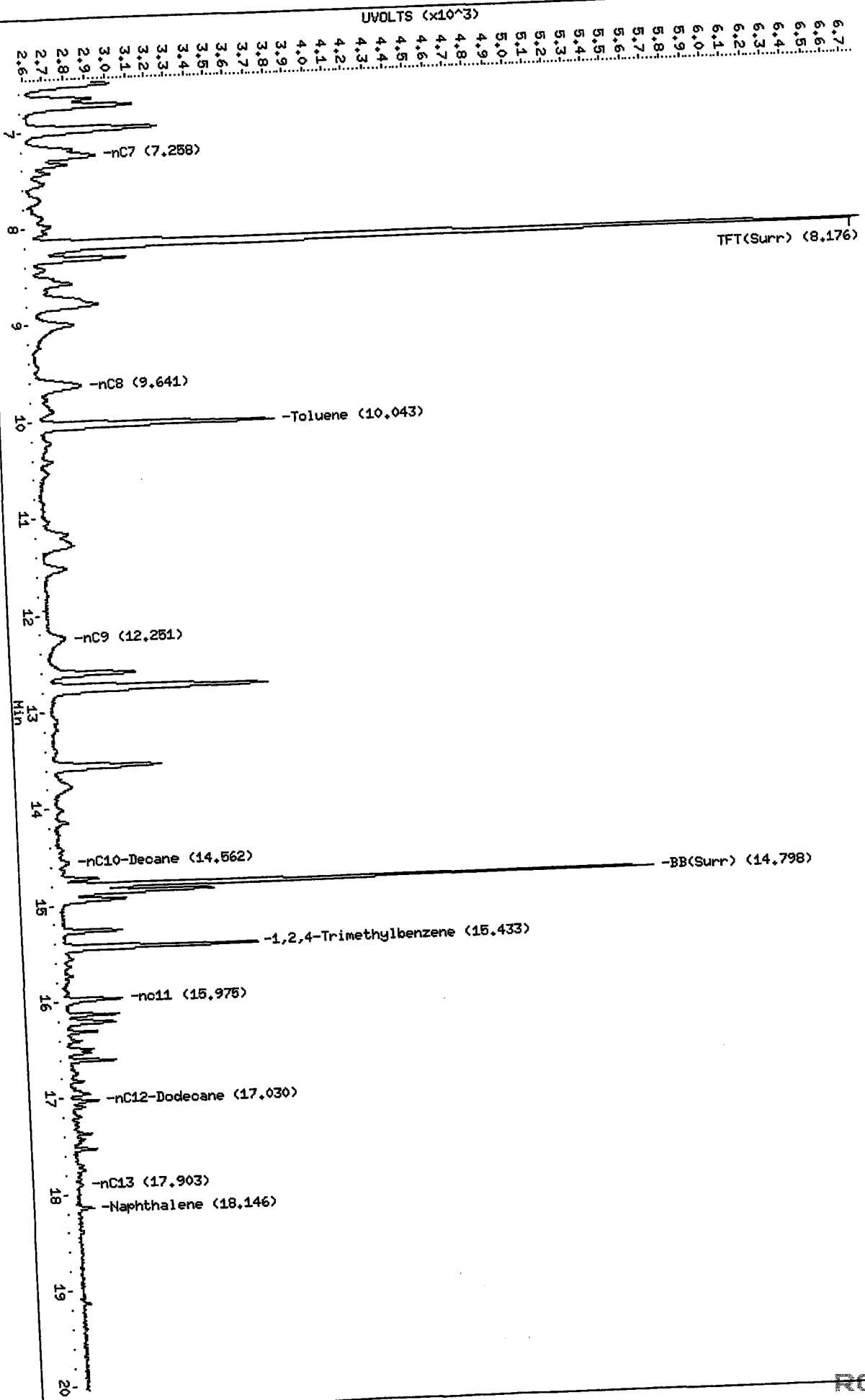
A Indicates Peak Area was used for quantitation instead of Height
 N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/072810-1.b/0728a015.d
Date : 28-JUL-2010 13:50
Client ID:
Sample Info: GNS .25

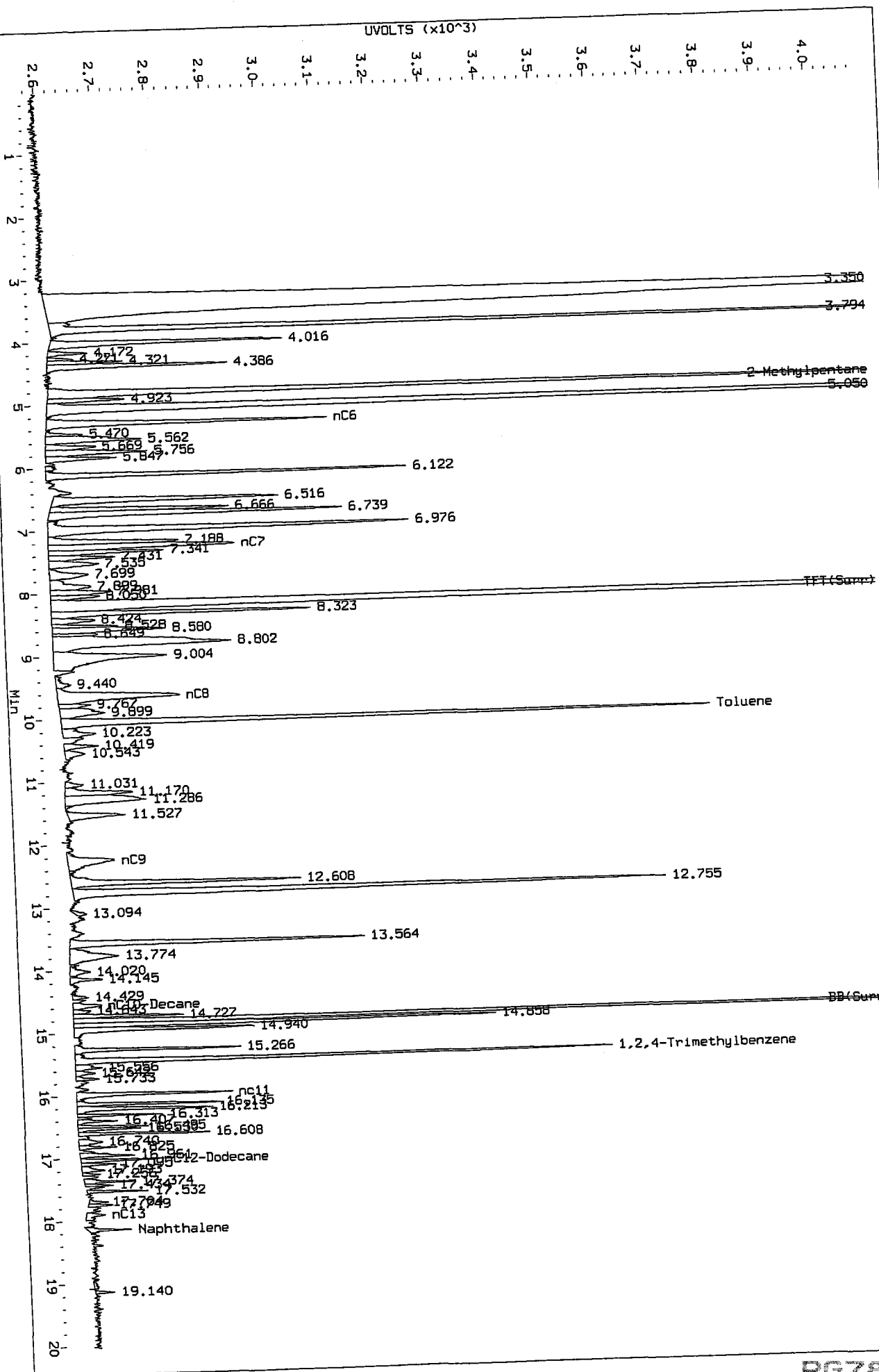
Instrument: pid2.i
Operator: HH
Column diameter: 0.18

Column phase: RTX 502-2 FID

/chem3/pid2.i/072810-1.b/0728a015.d/0728a015.pdf



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



AIN 0728a015.cdf: 0.024 to 20.173 Min

Analytical Resources Inc.
BETX/Gas Quantitation Report

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

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

=====
FID Surrogates

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

PETROLEUM HYDROCARBONS (FID)

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

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

PID Surrogates

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

AROMATICS (PID)

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

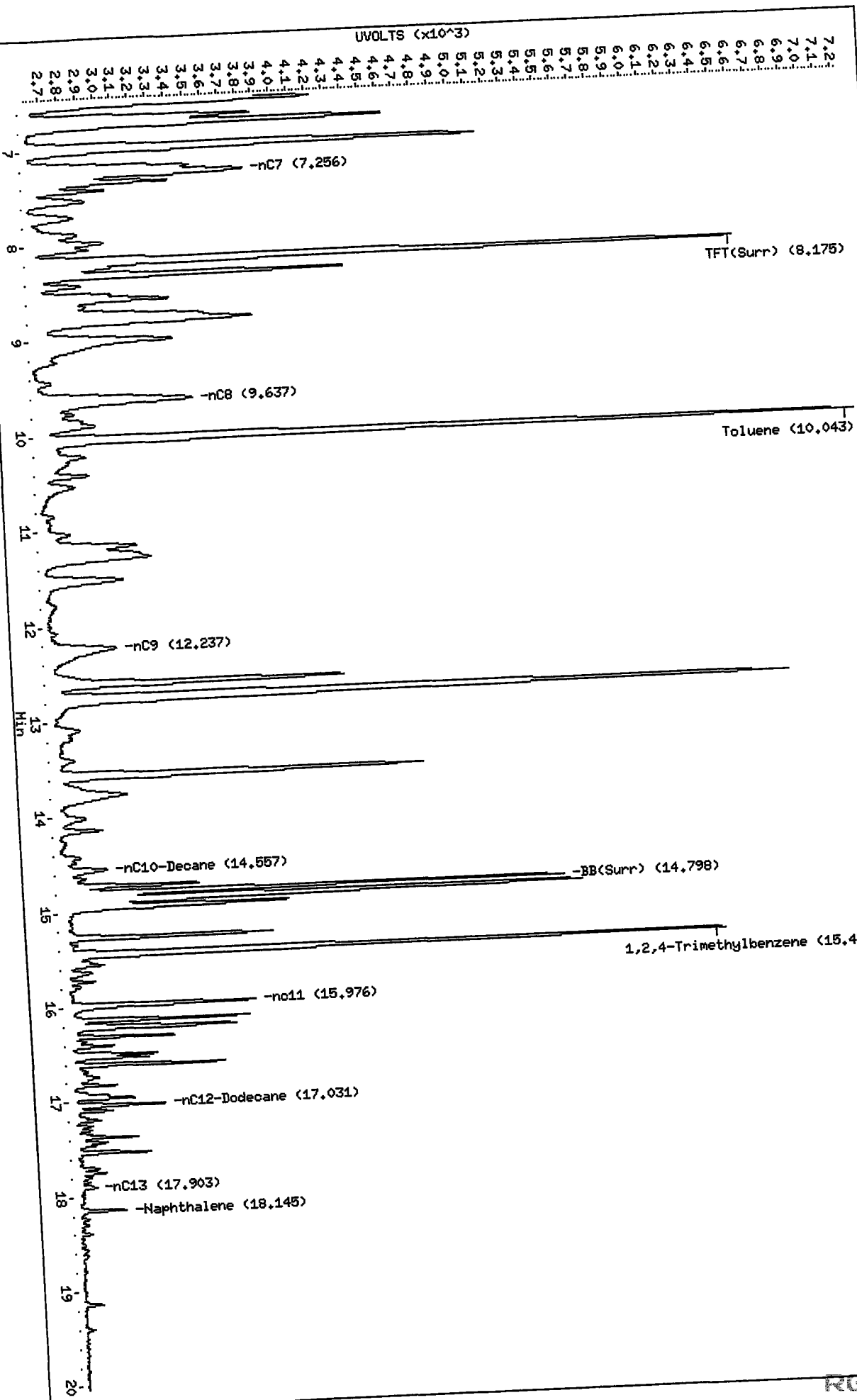
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

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

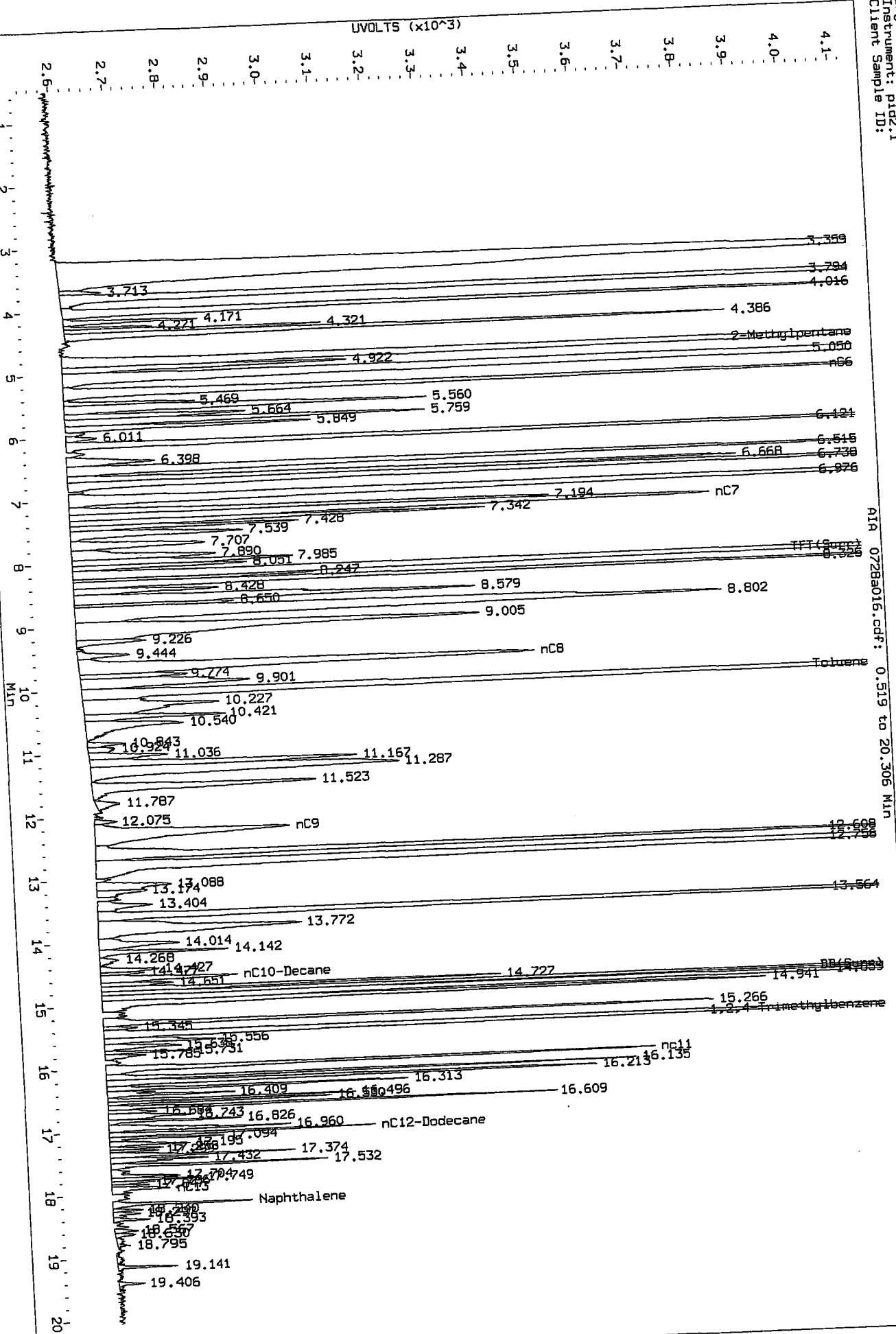
Column phase: RTX 502-2 FID

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

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



Data File: /chem3/pid2.1/072810-1.b/0728a016.d/0728a016.cdf
 Injection Date: 28-JUL-2010 14:15
 Instrument: pid2.1
 Client Sample ID:



RTA 0728a016.cdf: 0.519 to 20.306 Min

Analytical Resources Inc.
 BETX/Gas Quantitation Report

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

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

=====

FID Surrogates

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

PETROLEUM HYDROCARBONS (FID)

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

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

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

AROMATICS (PID)

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

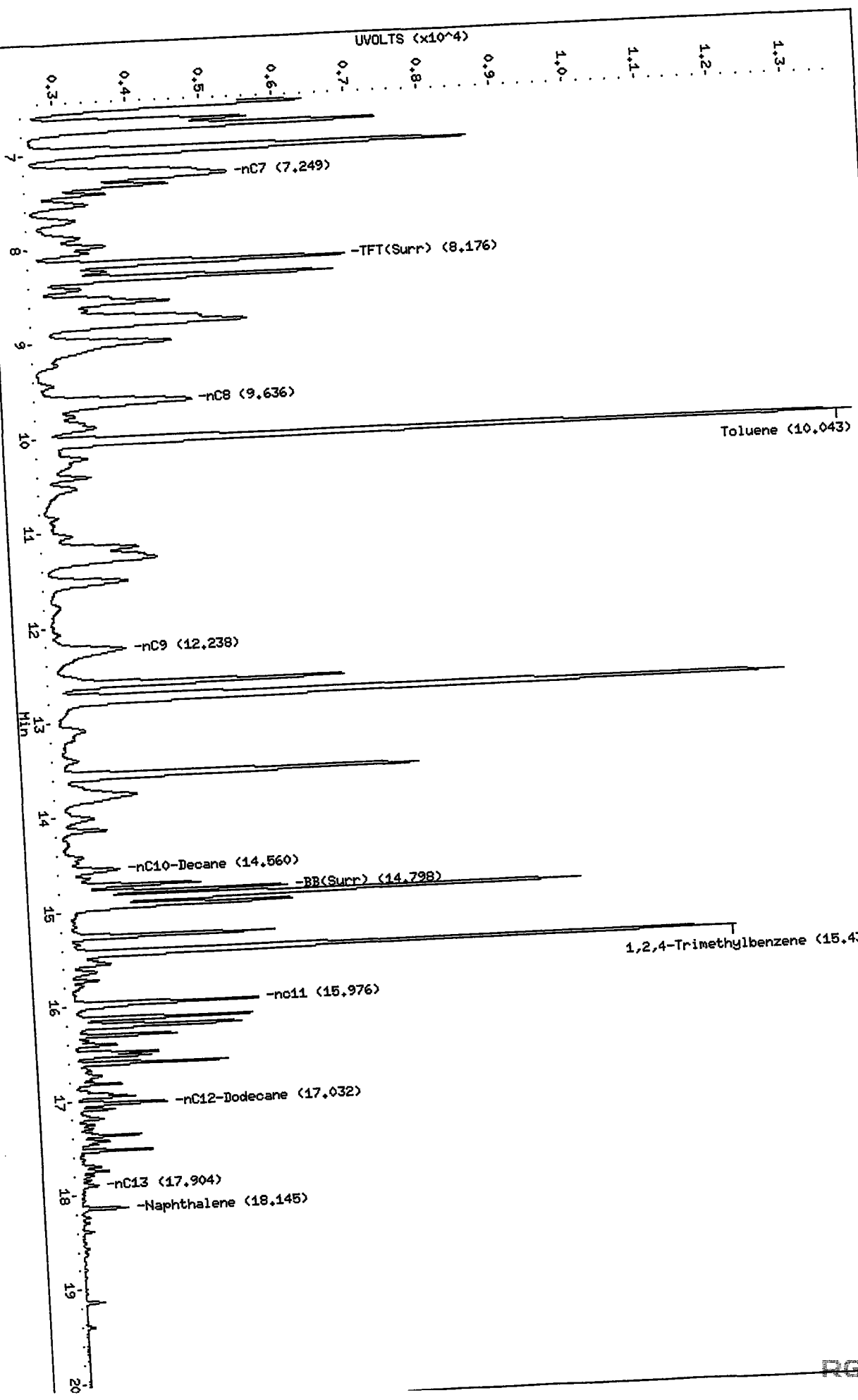
A Indicates Peak Area was used for quantitation instead of Height
 N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/072810-1.b/0728a017.d
Date: 28-JUL-2010 14:42
Client ID:
Sample Info: GAS 2.5

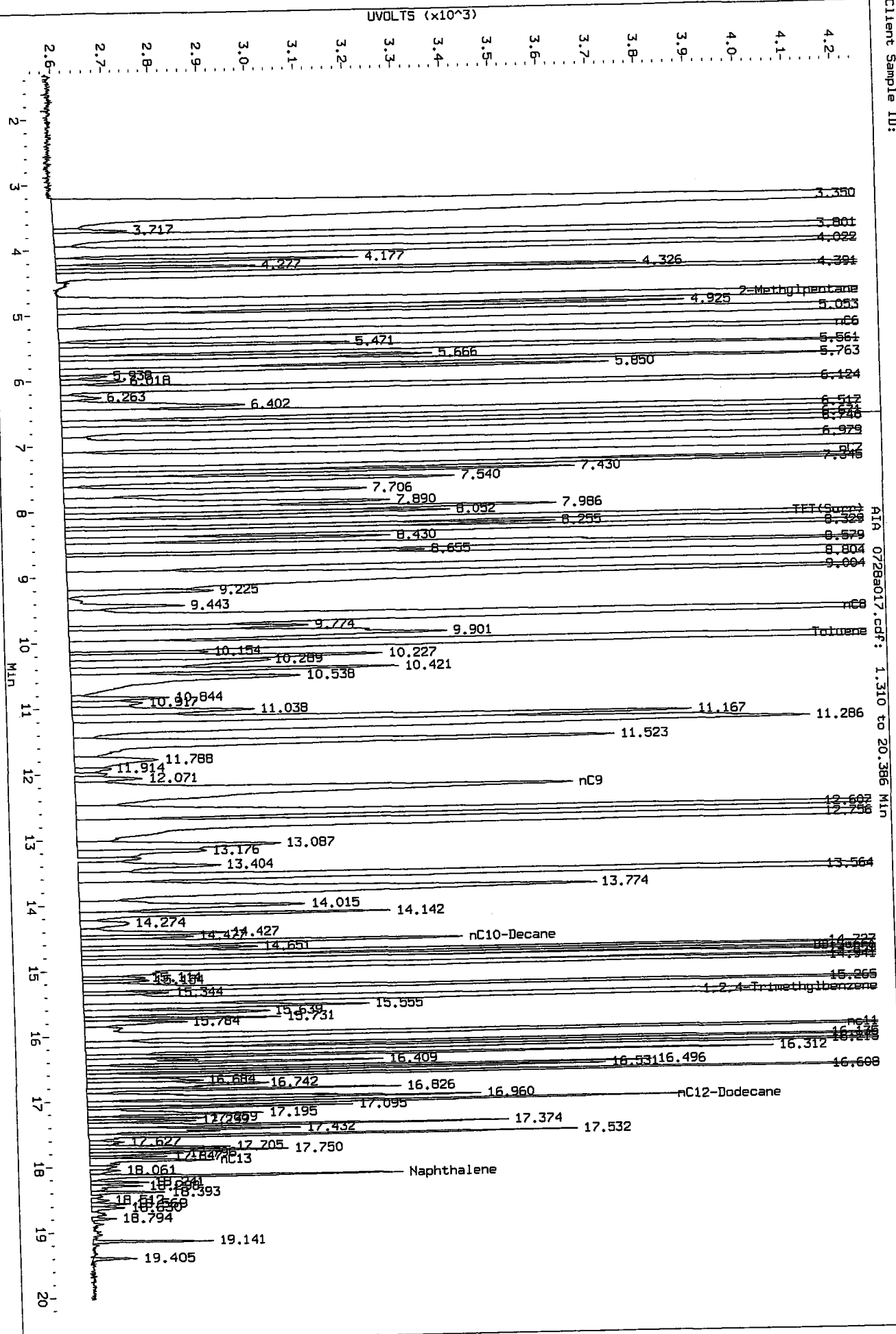
Instrument: pid2.i
Operator: MH
Column diameter: 0.18

Column phase: RTX 502-2 FID

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



Data File: /chem3/pld2.1/072810-1.b/0728a017.d/0728a017.cdf
 Injection Date: 28-JUL-2010 14:42
 Instrument: pld2.1
 Client Sample ID:



Analytical Resources Inc.
 BETX/Gas Quantitation Report

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

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

FID Surrogates

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

PETROLEUM HYDROCARBONS (FID)

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

* Surrogate areas are subtracted from Total Area

PID Surrogates

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

AROMATICS (PID)

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

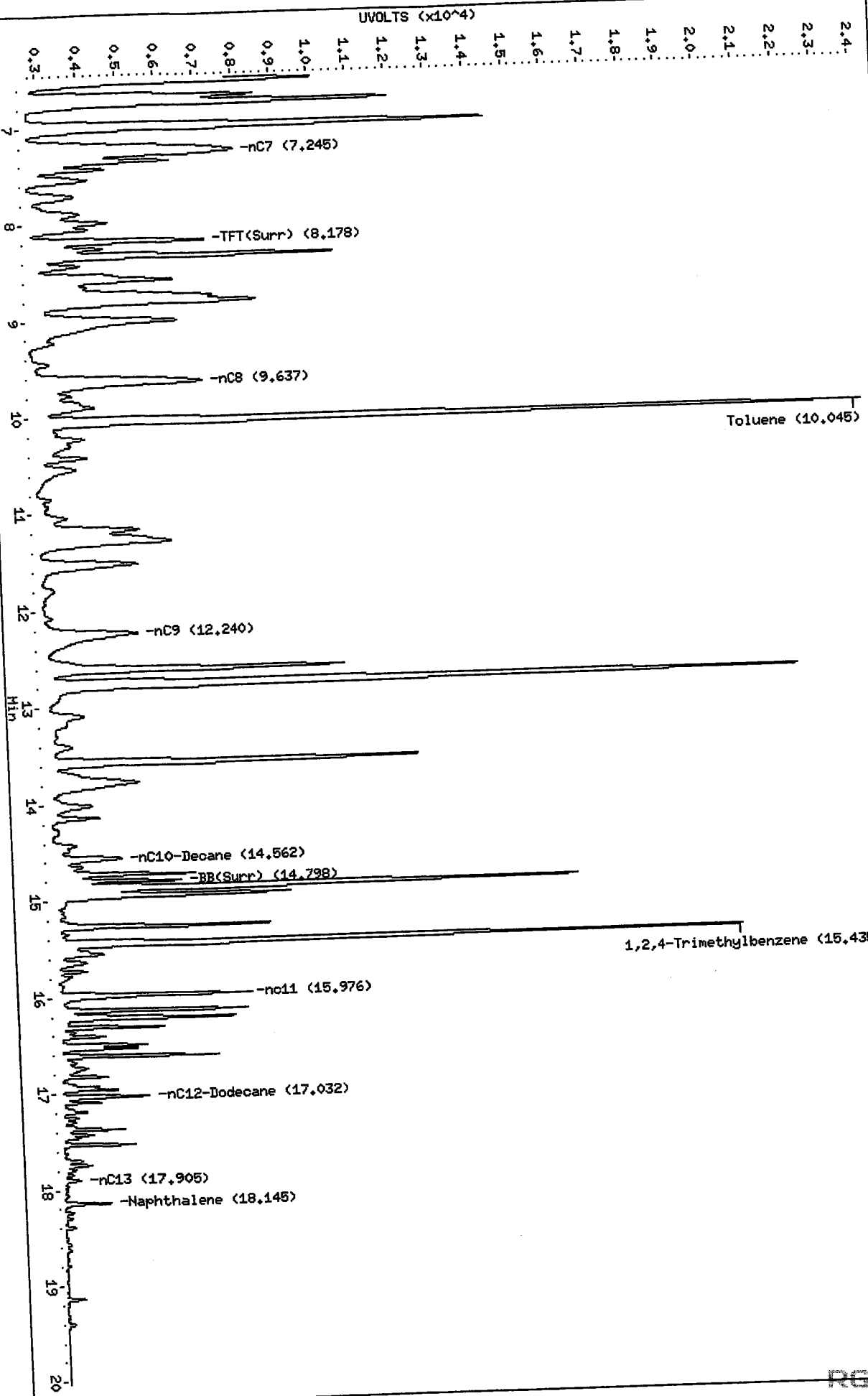
A Indicates Peak Area was used for quantitation instead of Height
 N Indicates peak peak was manually integrated

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

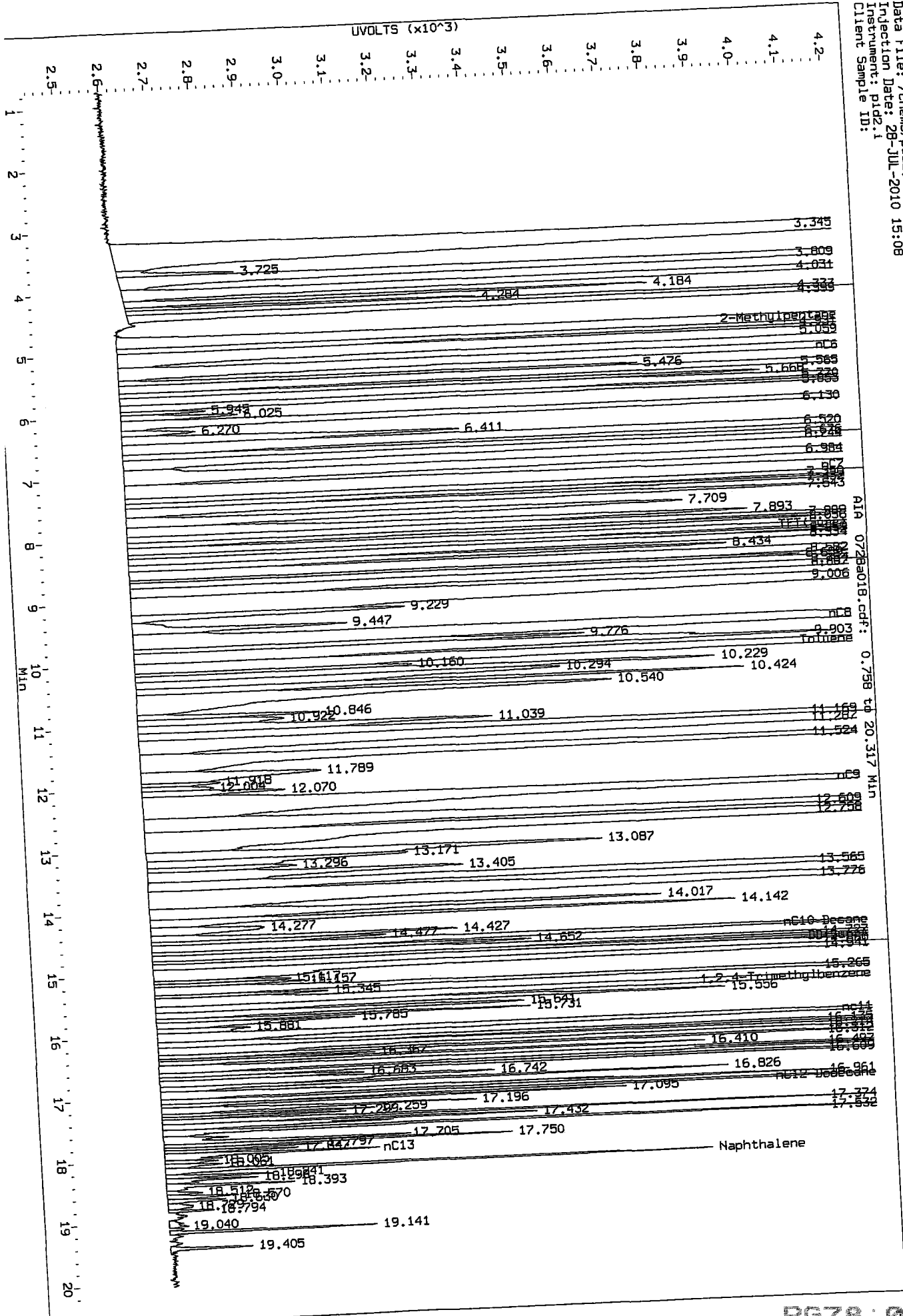
Instrument: pid2.i
Operator: MH
Column diameter: 0.18

Column phase: RTX 502-2 FID

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



Data File: /chem3/pid2.1/072810-1.b/0728a01B.d/0728a01B.cdf
 Injection Date: 28-JUL-2010 15:08
 Instrument: pid2.1
 Client Sample ID:



Analytical Resources Inc.
 BETX/Gas Quantitation Report

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

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

=====
 FID Surrogates

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

PETROLEUM HYDROCARBONS (FID)

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

* Surrogate areas are subtracted from Total Area

PID Surrogates

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

AROMATICICS (PID)

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

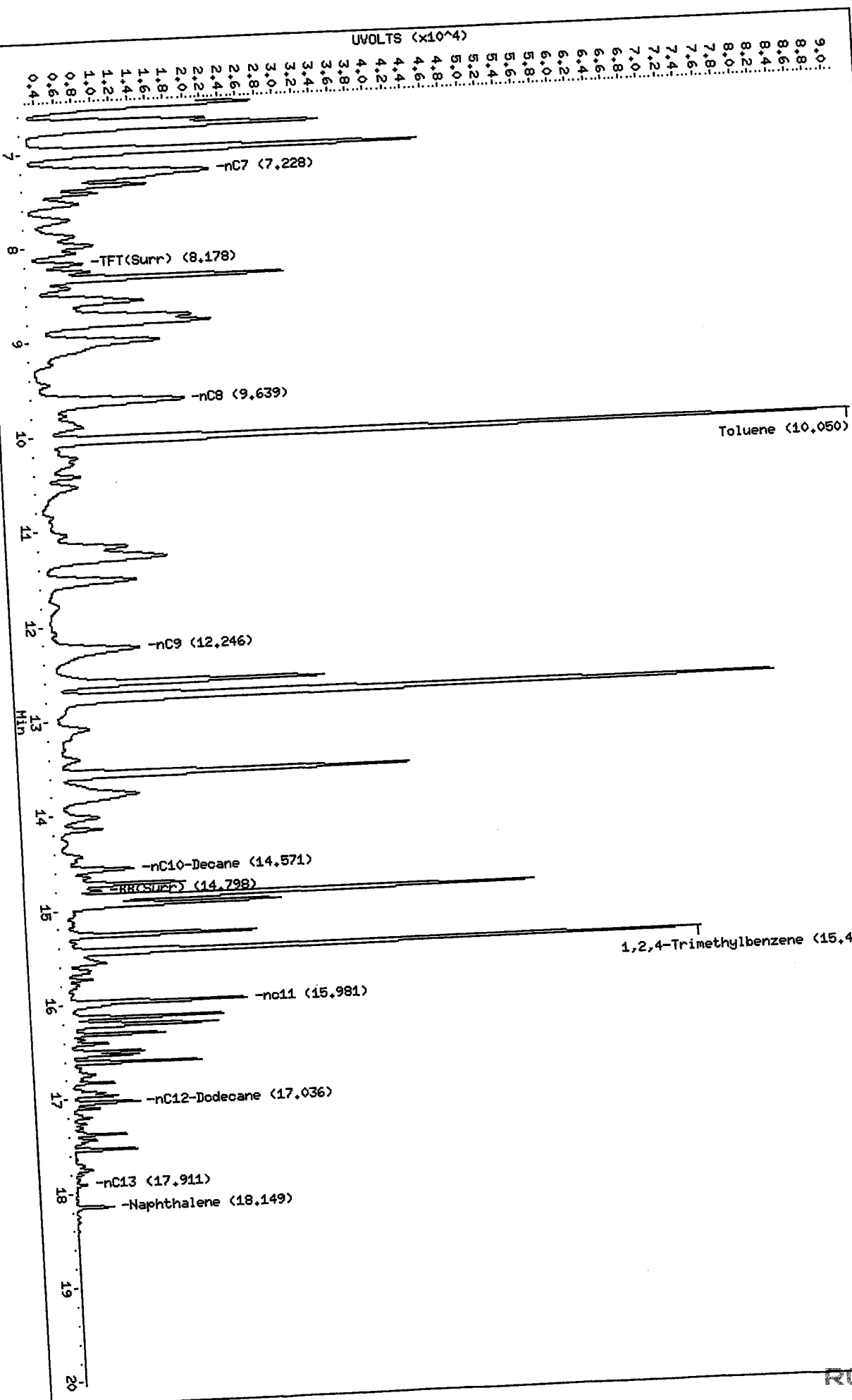
A Indicates Peak Area was used for quantitation instead of Height
 N Indicates peak peak was manually integrated

Data File: /chem3/pid2.1/072810-1.b/0728a019.d
Date: 28-JUL-2010 15:34
Client ID:
Sample Info: GAS 20

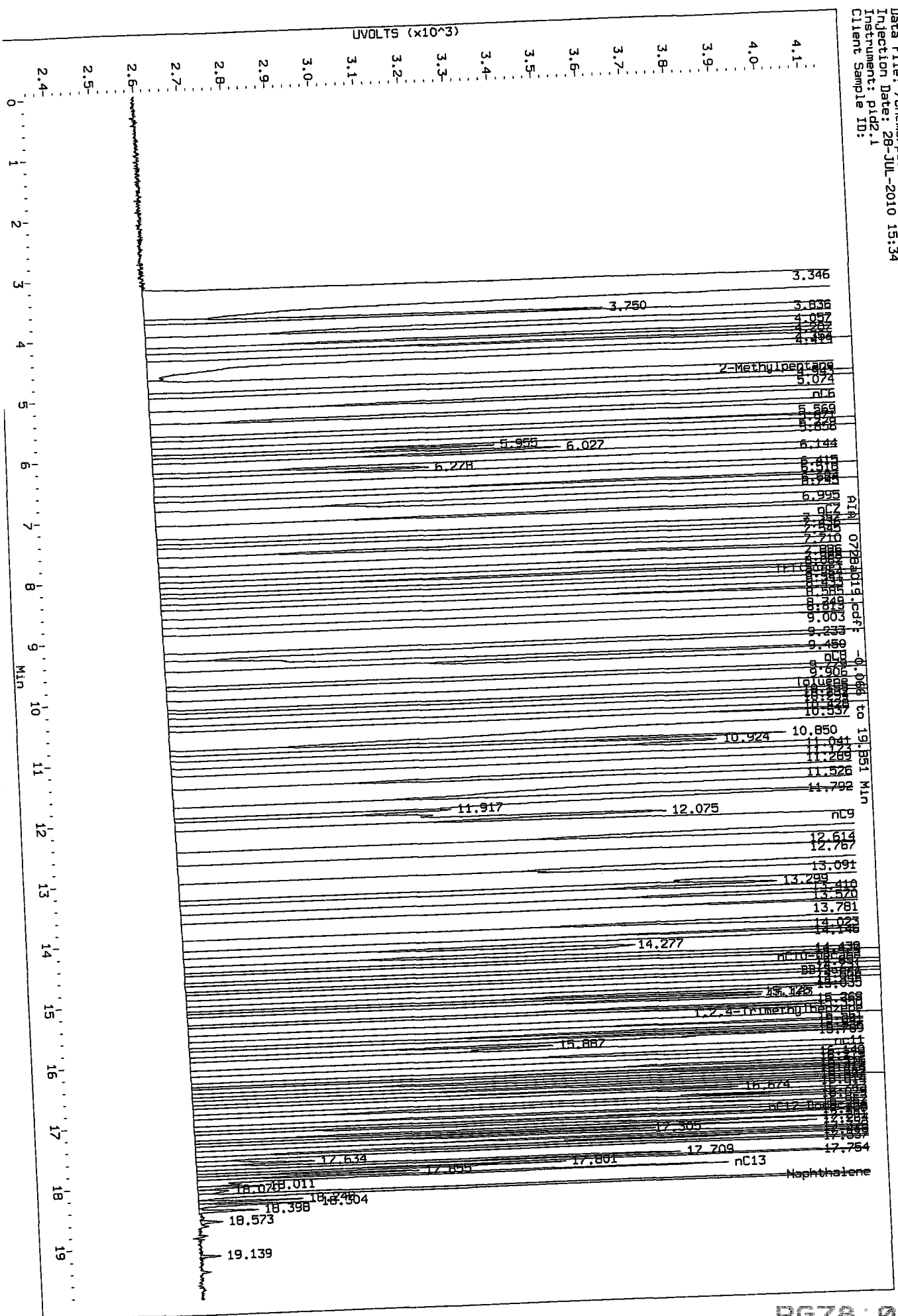
Column phase: RTX 502-2 FID

Instrument: pid2.1
Operator: MH
Column diameter: 0.18

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Data File: /chem3/p1d2.1/072810-1.b/0728a019.d/0728a019.cdf
Injection Date: 28-JUL-2010 15:34
Instrument: p1d2.1
Client Sample ID:



Analytical Resources Inc.
 BETX/Gas Quantitation Report

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

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

=====

FID Surrogates

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

PETROLEUM HYDROCARBONS (FID)

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

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

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

AROMATICS (PID)

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

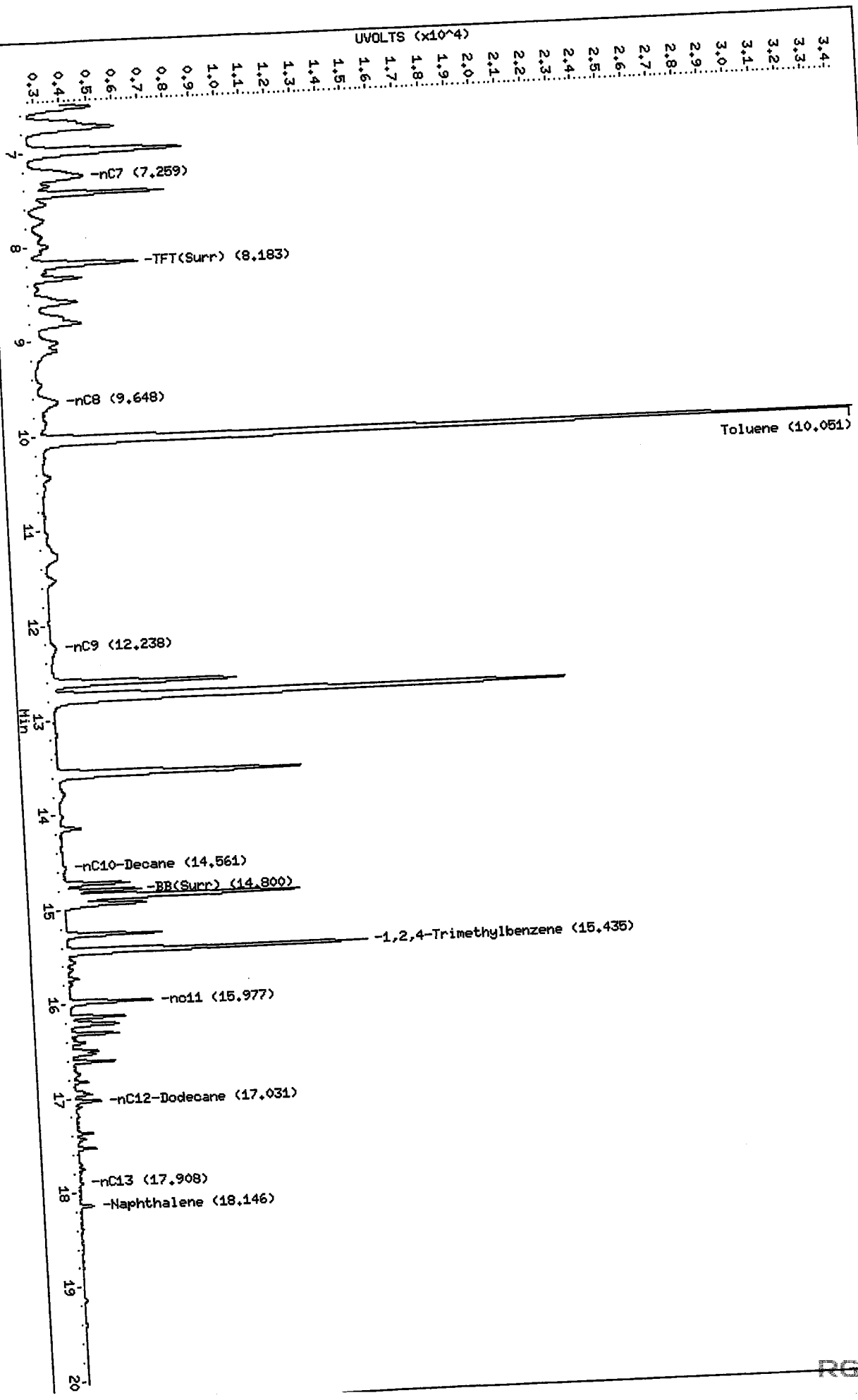
A Indicates Peak Area was used for quantitation instead of Height
 N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/072810-1.b/0728s021.d
Date: 28-JUL-2010 16:26
Client ID:
Sample Info: GAS ICV

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

Column phase: RTX 502-2 FID

/chem3/pid2.i/072810-1.b/0728s021.d/0728s021.cdf



Report Date : 29-Jul-2010 11:34

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

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

ID: RT01 RT02 RT03 RT04 RT05 RT06
FILENAME: 0728a014 0728a015 0728a016 0728a017 0728a018 0728a019
INJ. DATE: 28-JUL-2010 28-JUL-2010 28-JUL-2010 28-JUL-2010 28-JUL-2010 28-JUL-2010
INJ. TIME: 13:24 13:50 14:16 14:42 15:08 15:34

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

Reviewer 1
Reviewer 2

Date: 7/29/10

Report Date : 29-Jul-2010 11:34

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

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

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
13 nC13	17.903	17.903	17.903	17.904	17.905	17.911	17.890	17.820-17.960	17.905	0.003
14 Naphthalene	18.143	18.146	18.145	18.145	18.145	18.149	18.148	18.078-18.218	18.145	0.002

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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

Calibration File Names:

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

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

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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

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

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

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

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

MH
7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

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

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

FID Surrogates

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

PETROLEUM HYDROCARBONS (FID)

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

* Surrogate areas are subtracted from Total Area

PID Surrogates

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

AROMATIC (PID)

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

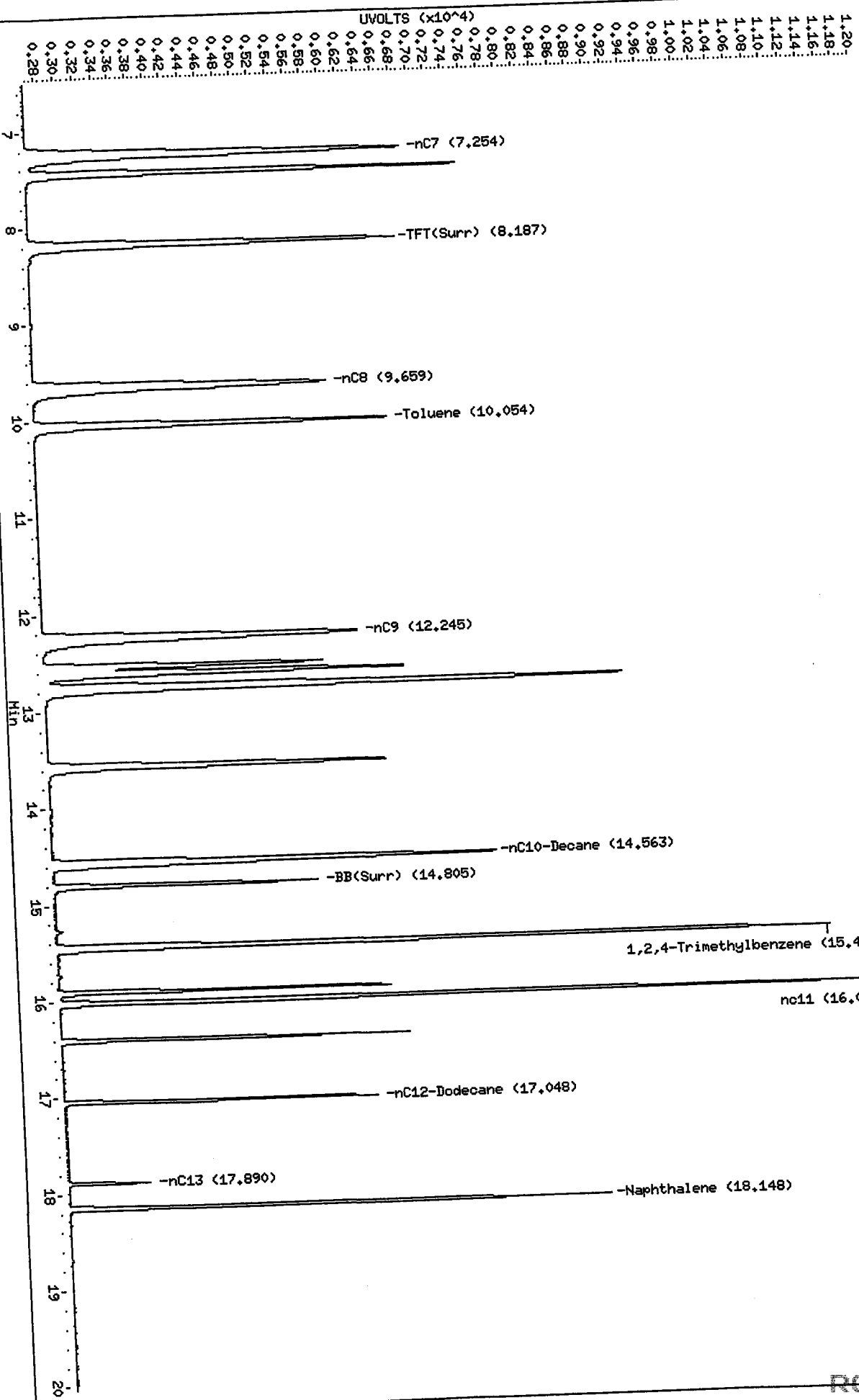
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/072810-1.b/0728a002.d
Date: 28-JUL-2010 06:29
Client ID:
Sample Info: RT+BCRL 1

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

Column phase: RTX B02-2 FID

/chem3/pid2.i/072810-1.b/0728a002.d/0728a002.cdf

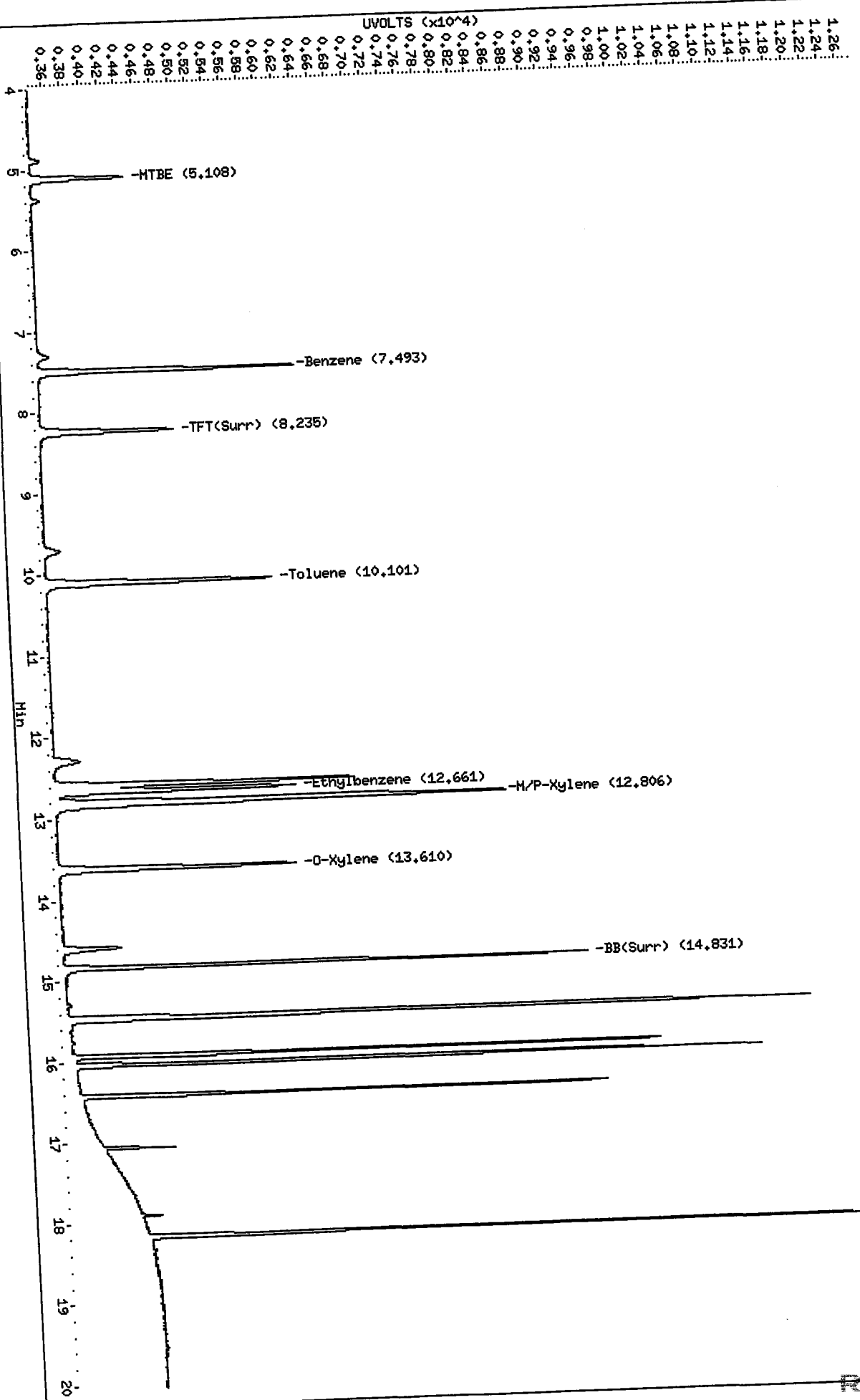


Data File: /chem3/pid2.i/072810-2.b/0728a002.d
Date: 28-JUL-2010 06:29
Client ID:
Sample Info: RT+BCAL 1

Column phase: RTX 502-2 PID

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

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



MH
7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

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

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

=====
FID Surrogates

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

PETROLEUM HYDROCARBONS (FID)

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

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

PID Surrogates

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

AROMATICS (PID)

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

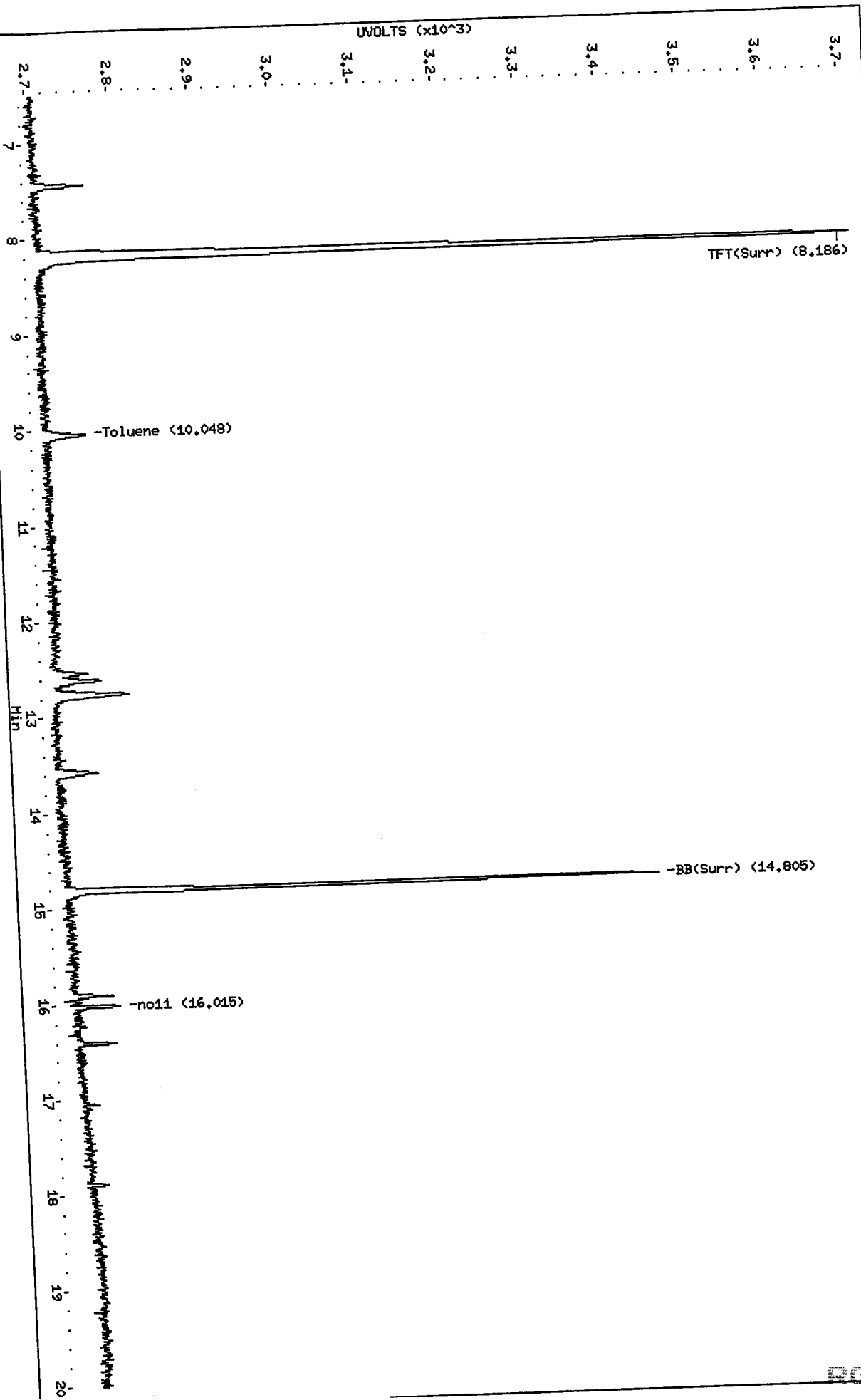
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/072810-1.b/0728a005.d
Date: 28-JUL-2010 09:30
Client ID:
Sample Info: BETX .25

Column phase: RTX 502-2 FID

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

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



Data File: /chem3/pid2.i/072810-2.b/0728a005.d

Date: 28-JUL-2010 09:30

Client ID:

Sample Info: BETX .25

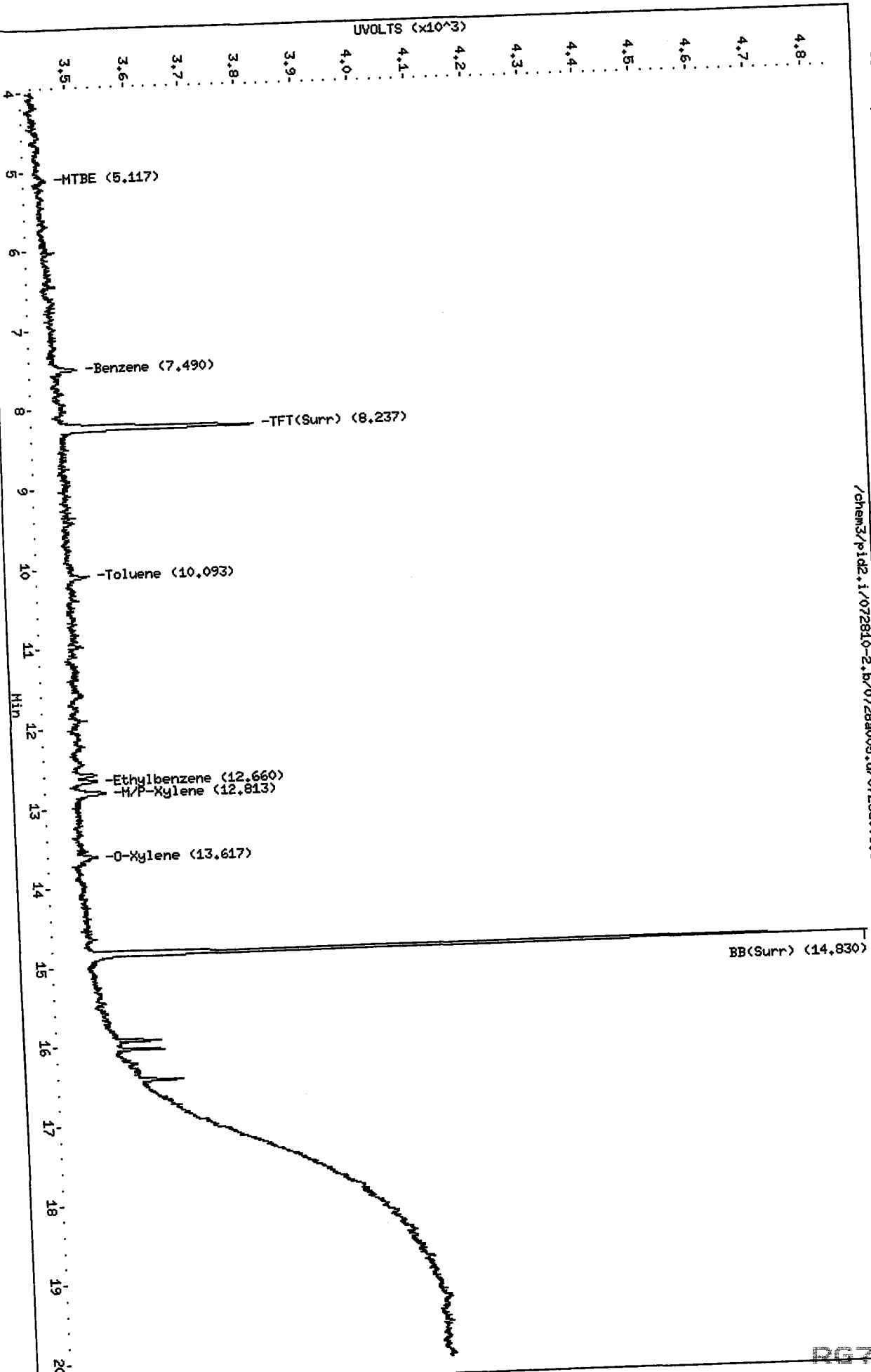
Instrument: pid2.i

Operator: MH

Column diameter: 0.18

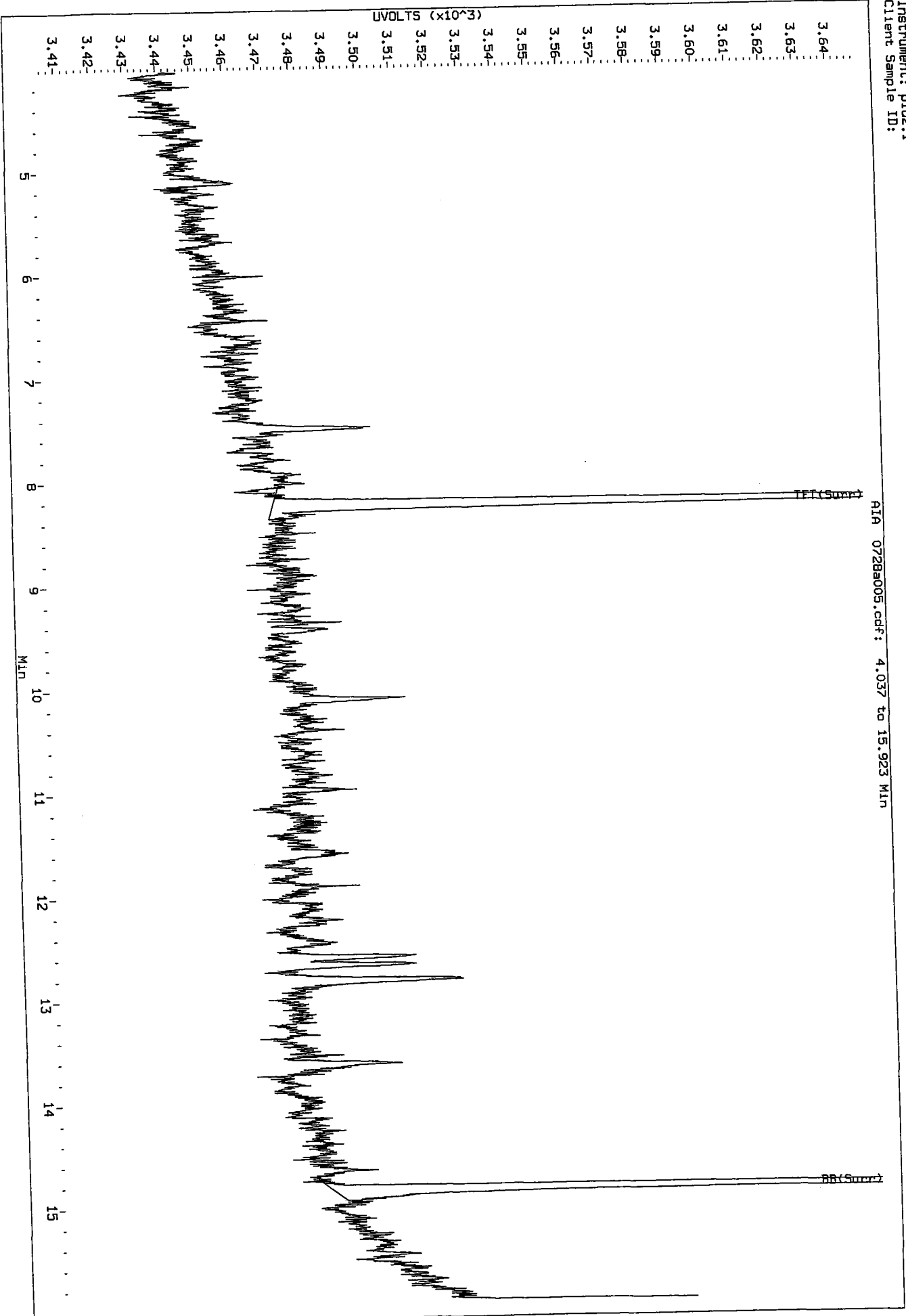
Column phase: RTX 502-2 PID

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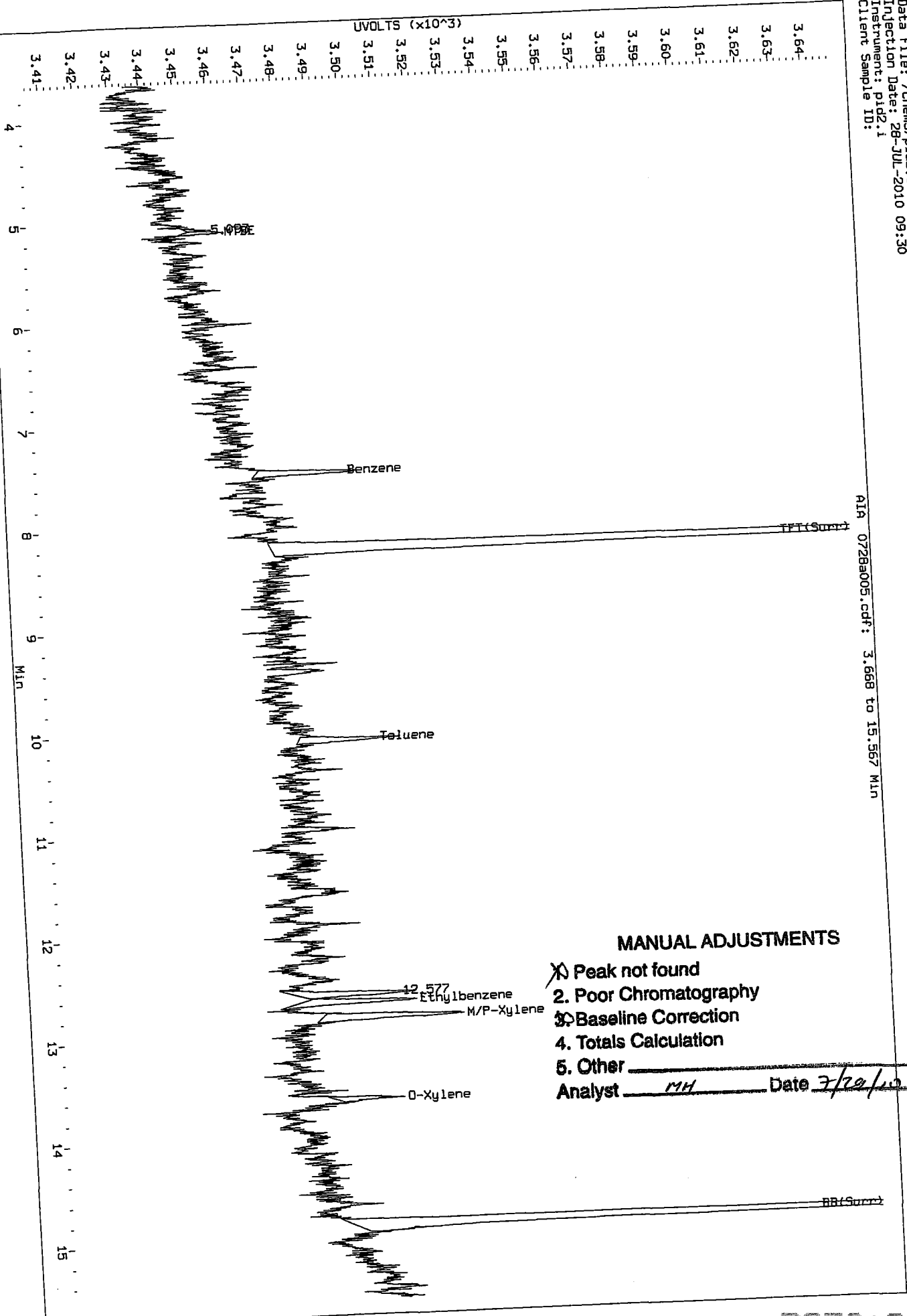


File # 21/62/12

Data File: /chem3/pid2_1/072810-2_b/0728a005.d/0728a005.cdf
Injection Date: 28-JUL-2010 09:30
Instrument: pid2.1
Client Sample ID:



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



AIA 0728a005.cdf: 3.668 to 15.567 MIN

MANUAL ADJUSTMENTS

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

Analyst MH Date 7/29/10

MH
7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

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

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

=====
FID Surrogates

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

PETROLEUM HYDROCARBONS (FID)

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

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

PID Surrogates

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

AROMATICS (PID)

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

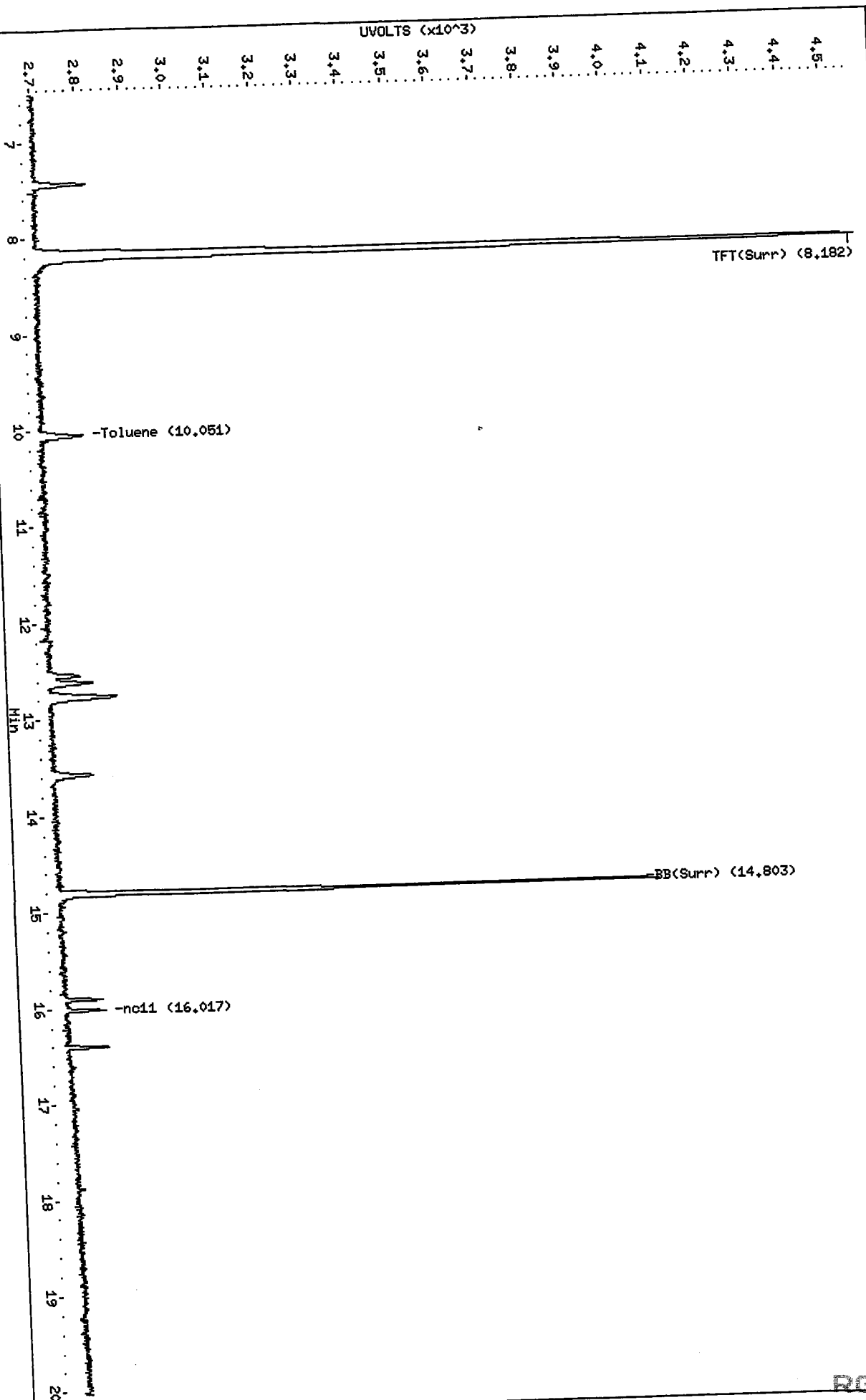
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/072810-1.b/0728a006.d
Date: 28-JUL-2010 09:56
Client ID:
Sample Info: BETX .5

Column phase: RTX 502-2 FID

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

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



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

Date: 28-JUL-2010 09:56

Client ID:

Sample Info: BETX .5

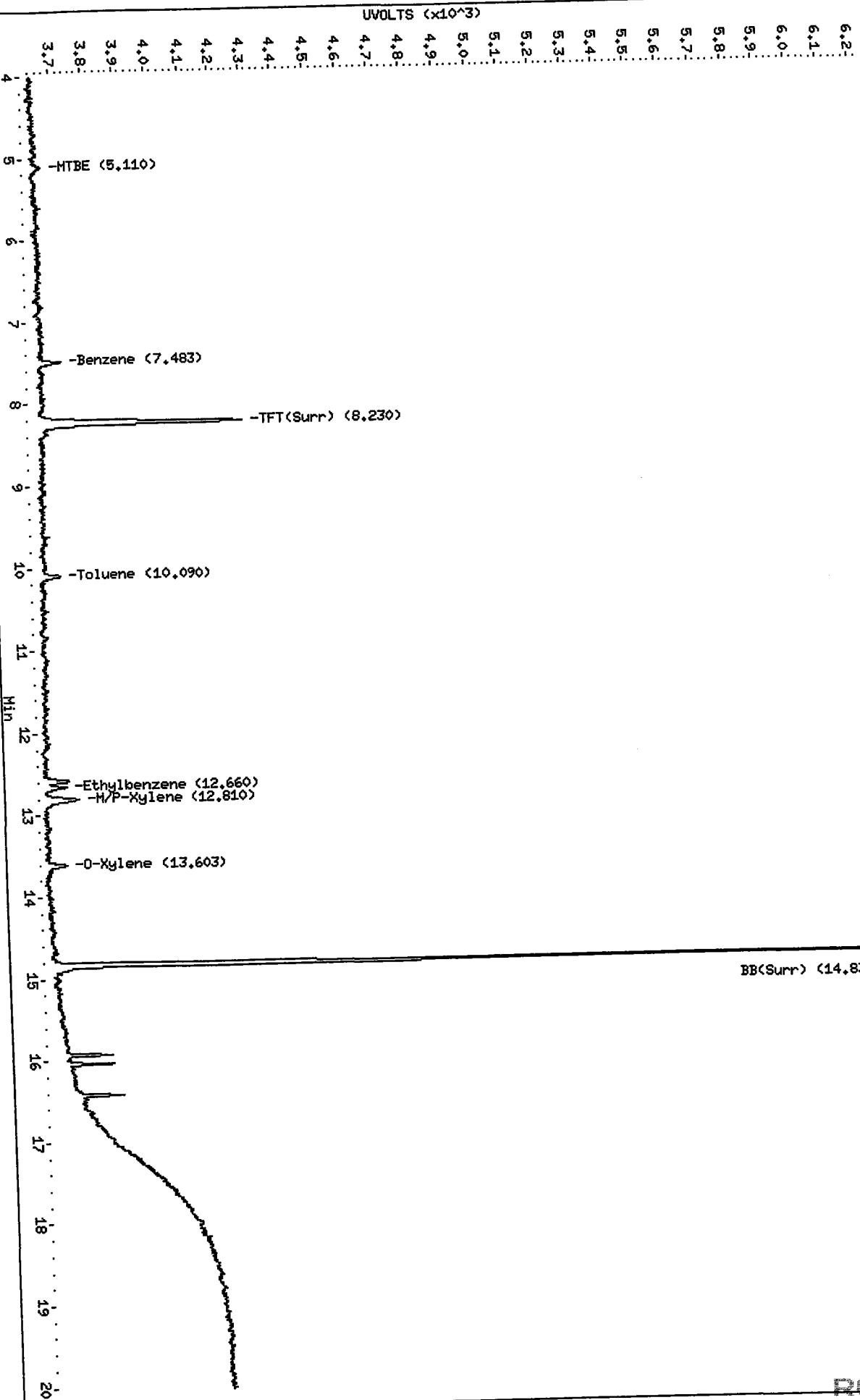
Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: MH

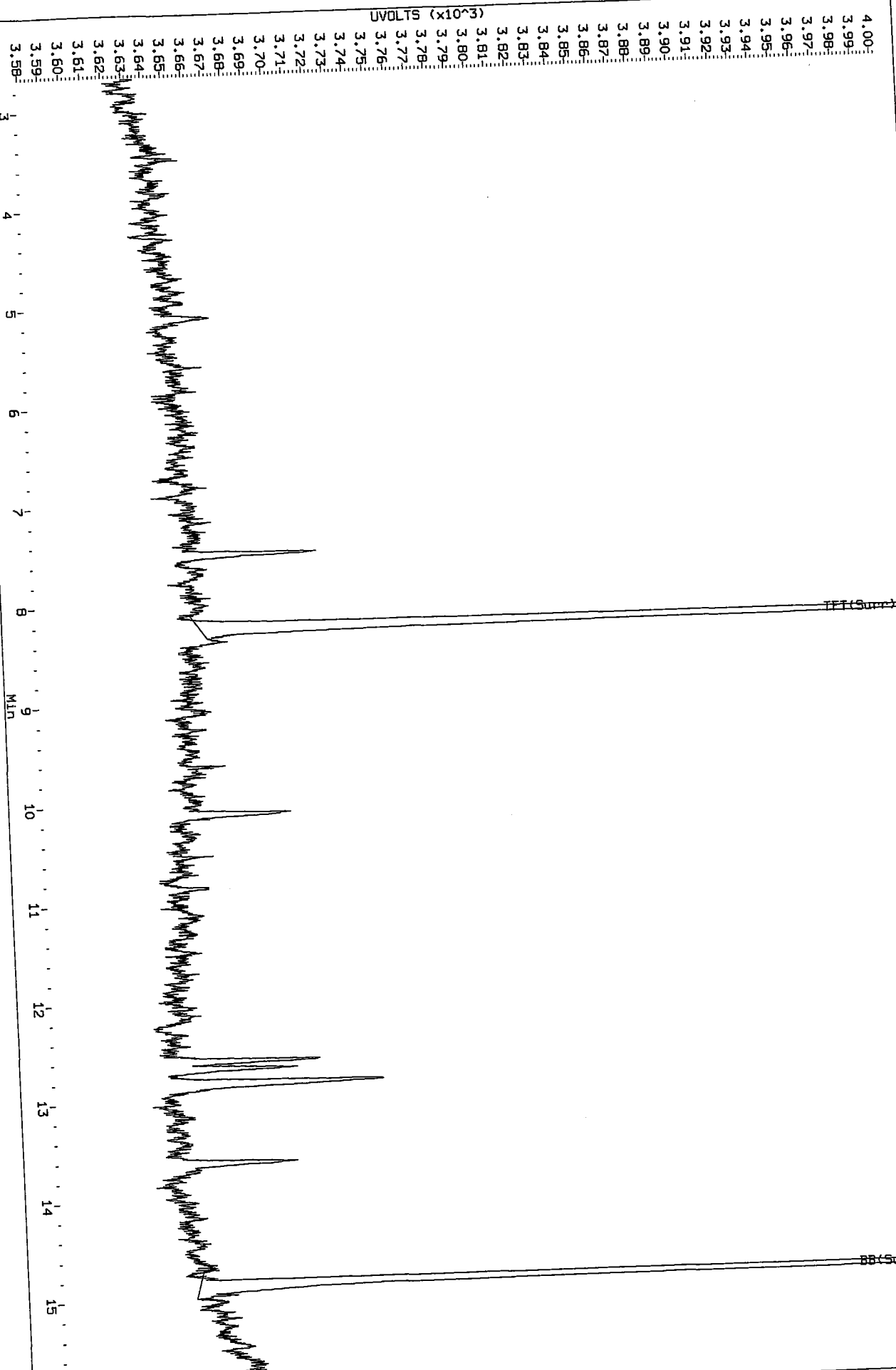
Column diameter: 0.18

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



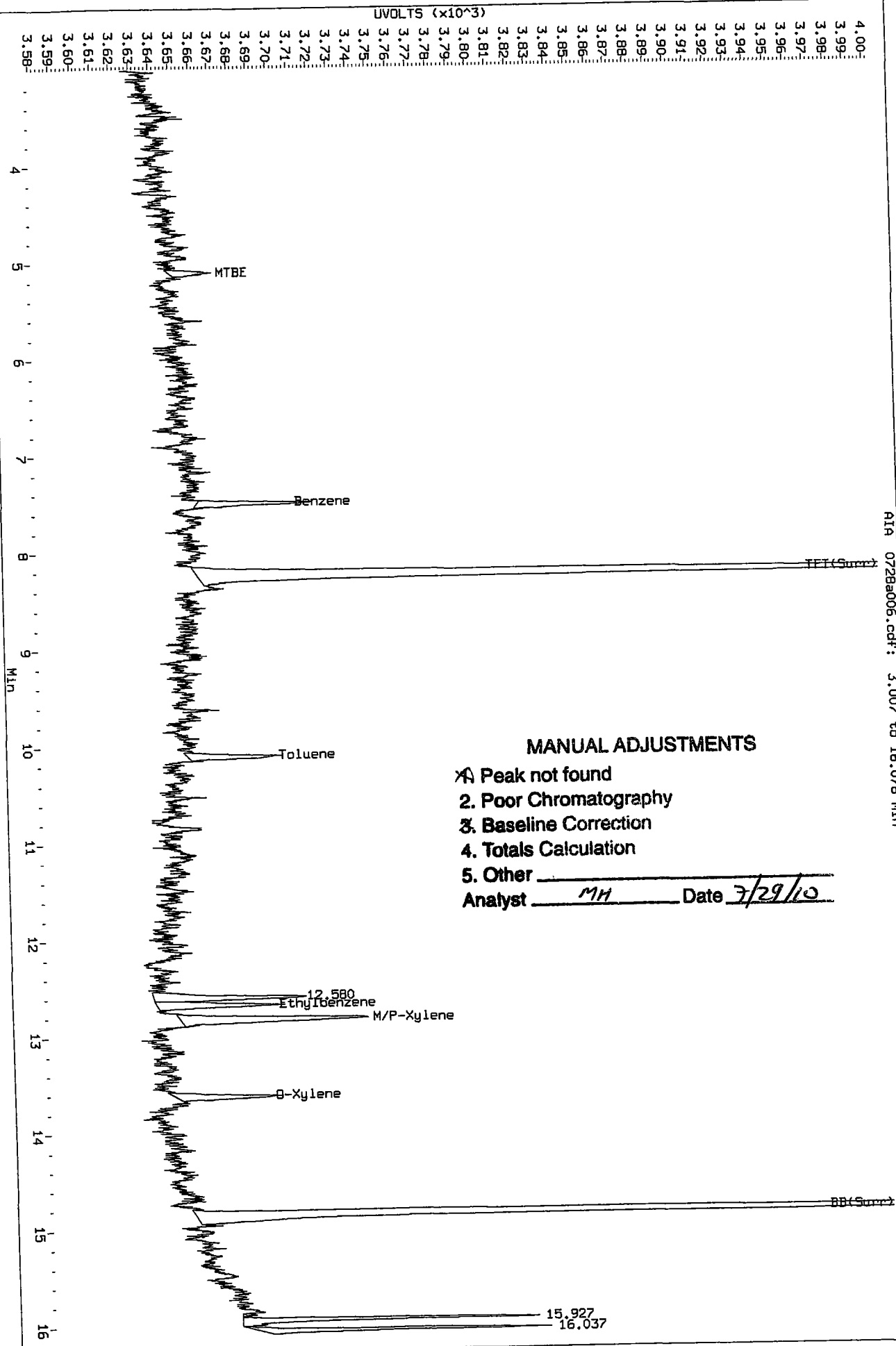
MH
7/21/10

Data File: /chem3/pid2.1/072810-2.b/0728a006.d/0728a006.cdf
Injection Date: 28-JUL-2010 09:56
Instrument: pid2.1
Client Sample ID:



AIA 0728a006.cdf: 2.681 to 15.749 Min

Data File: /chem3/pid2.1/072810-2.b/0728a006.d/0728a006.cdf
 Injection Date: 28-JUL-2010 09:56
 Instrument: pid2.1
 Client Sample ID:



AIA 0728a006.cdf: 3.007 to 16.076 Min

MANUAL ADJUSTMENTS

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

M4
7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

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

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

=====

FID Surrogates

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

PETROLEUM HYDROCARBONS (FID)

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

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

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

AROMATICS (PID)

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

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

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

Date: 28-JUL-2010 10:22

Client ID:

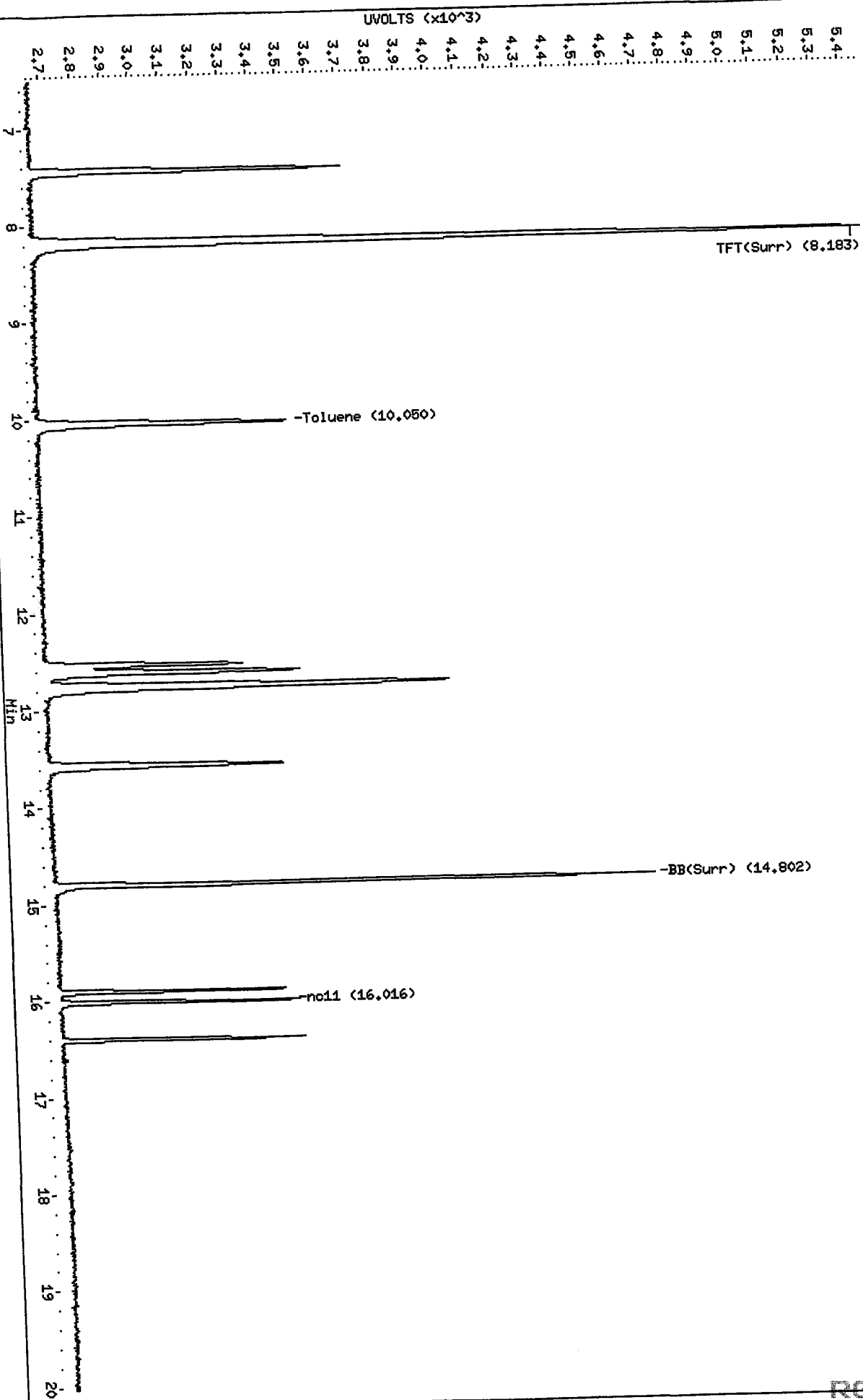
Sample Info: BETX 5

Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: MH
Column diameter: 0.18

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



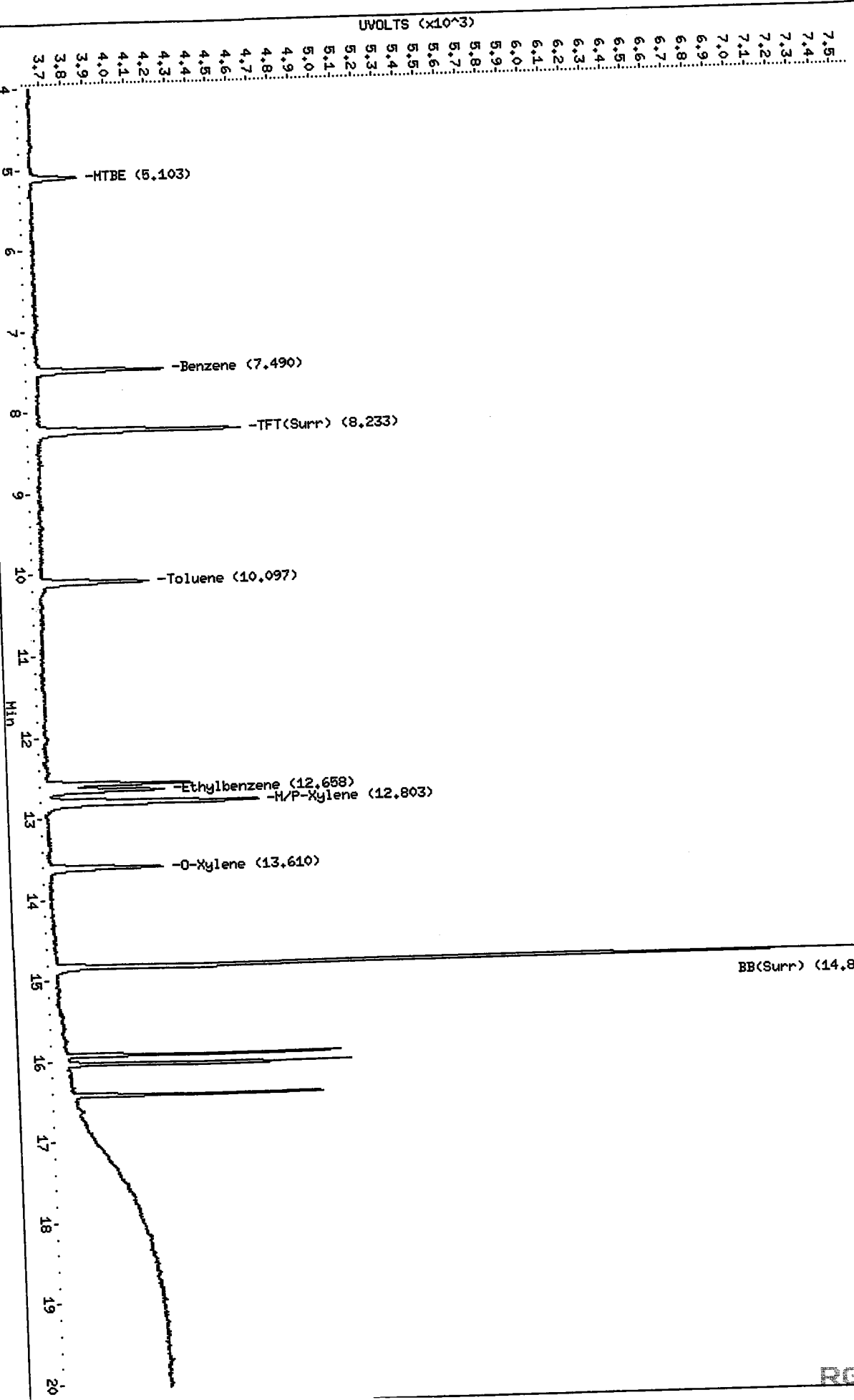
MM
01/16/17

Data File: /chem3/pid2.i/072810-2.b/0728a007.d
Date: 28-JUL-2010 10:22
Client ID:
Sample Info: BETX 5

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

Column phase: RTX 502-2 PID

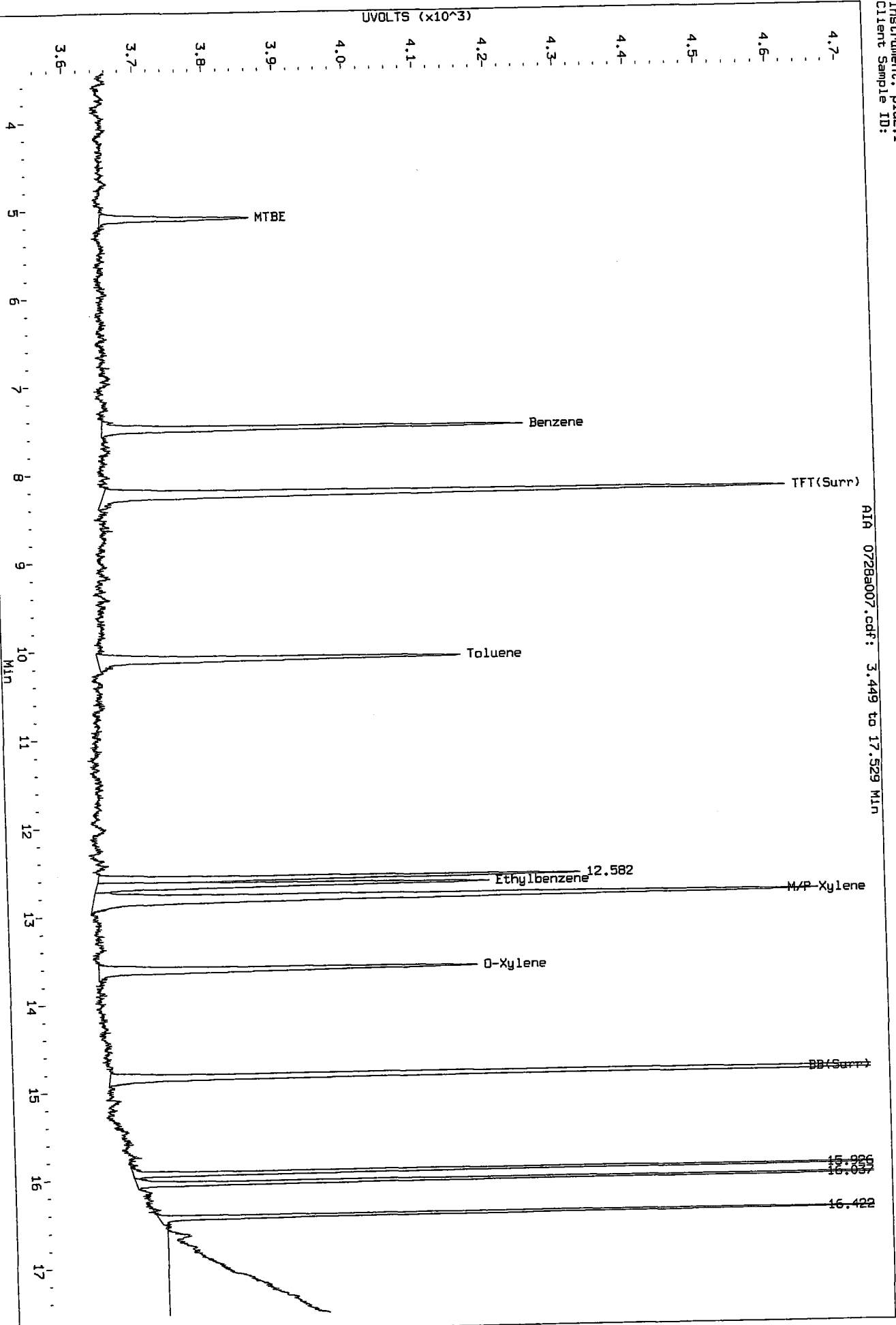
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MT
HT
01/22/10

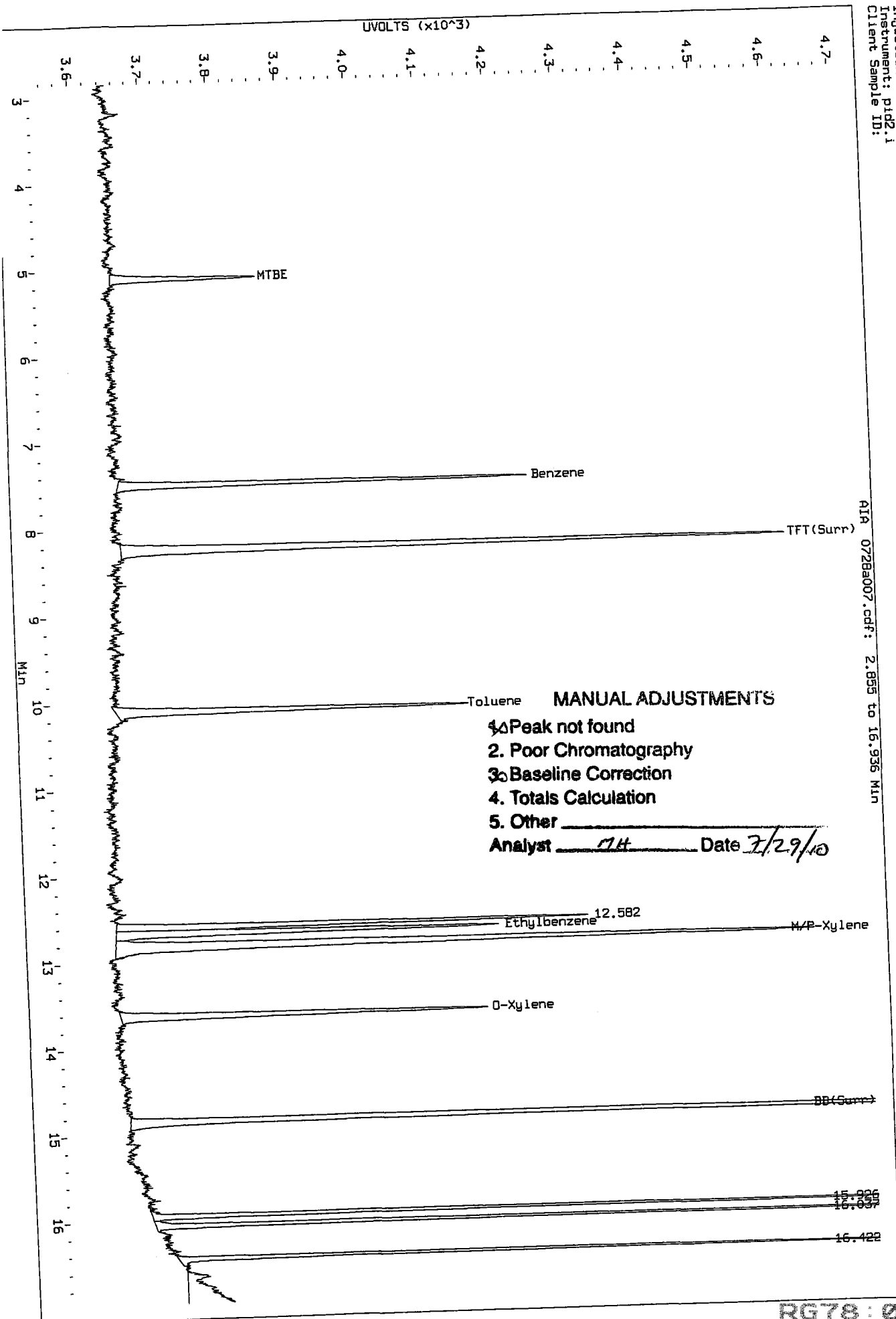
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Injection Date: 28-JUL-2010 10:22
Instrument: pid2.1
Client Sample ID:

AIA 0728a007.cdf: 3.449 to 17.529 Min



Data File: /chem3/pld2.1/072810-2.b/0728a007.d/0728a007.cdf
Injection Date: 28-JUL-2010 10:22
Instrument: pld2.1
Client Sample ID:

AIR 0728a007.cdf: 2.855 to 16.936 MIN



7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

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

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

FID Surrogates

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

PETROLEUM HYDROCARBONS (FID)

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

* Surrogate areas are subtracted from Total Area

PID Surrogates

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

AROMATICS (PID)

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

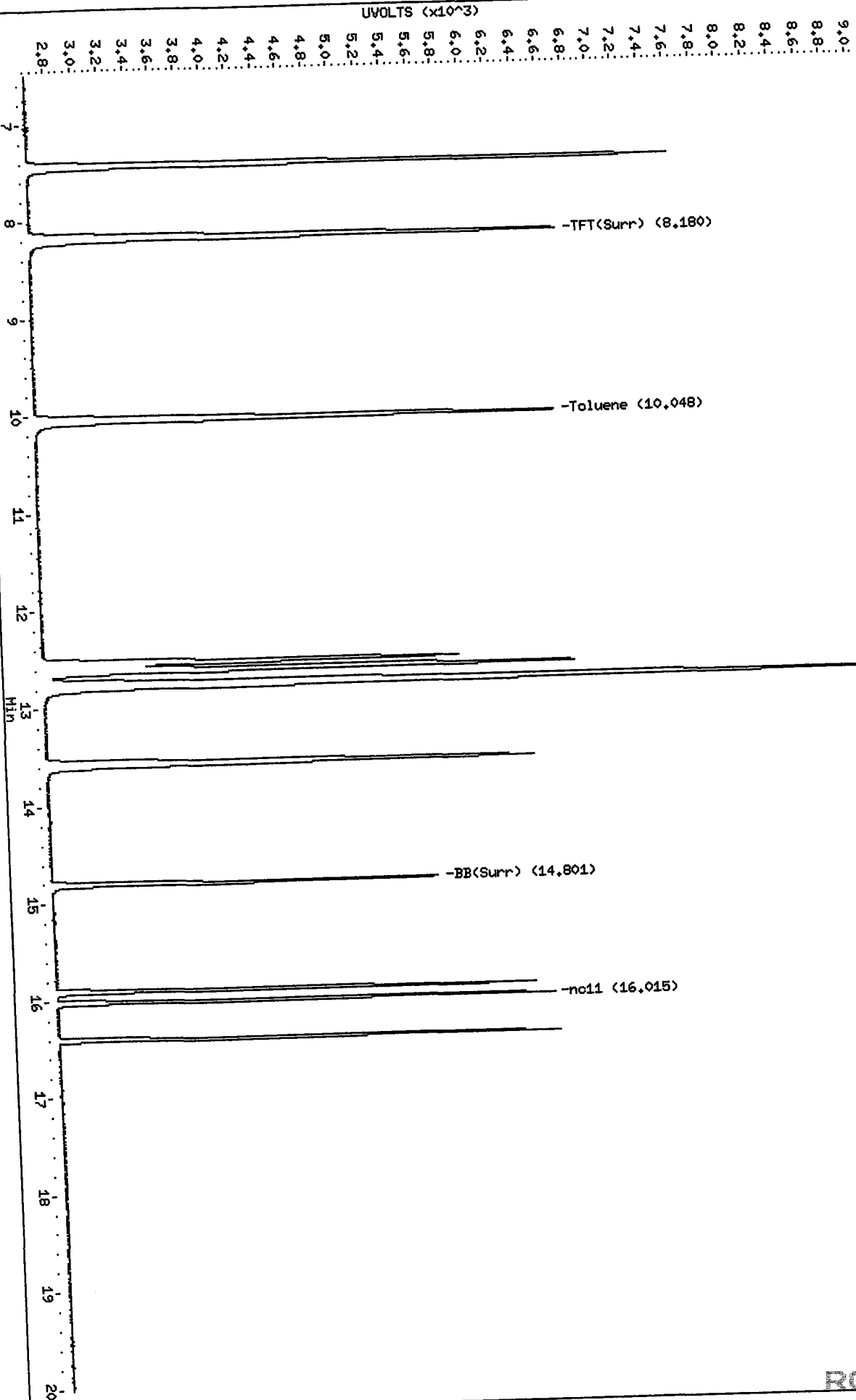
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

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

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

Column phase: RTX 502-2 FID

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

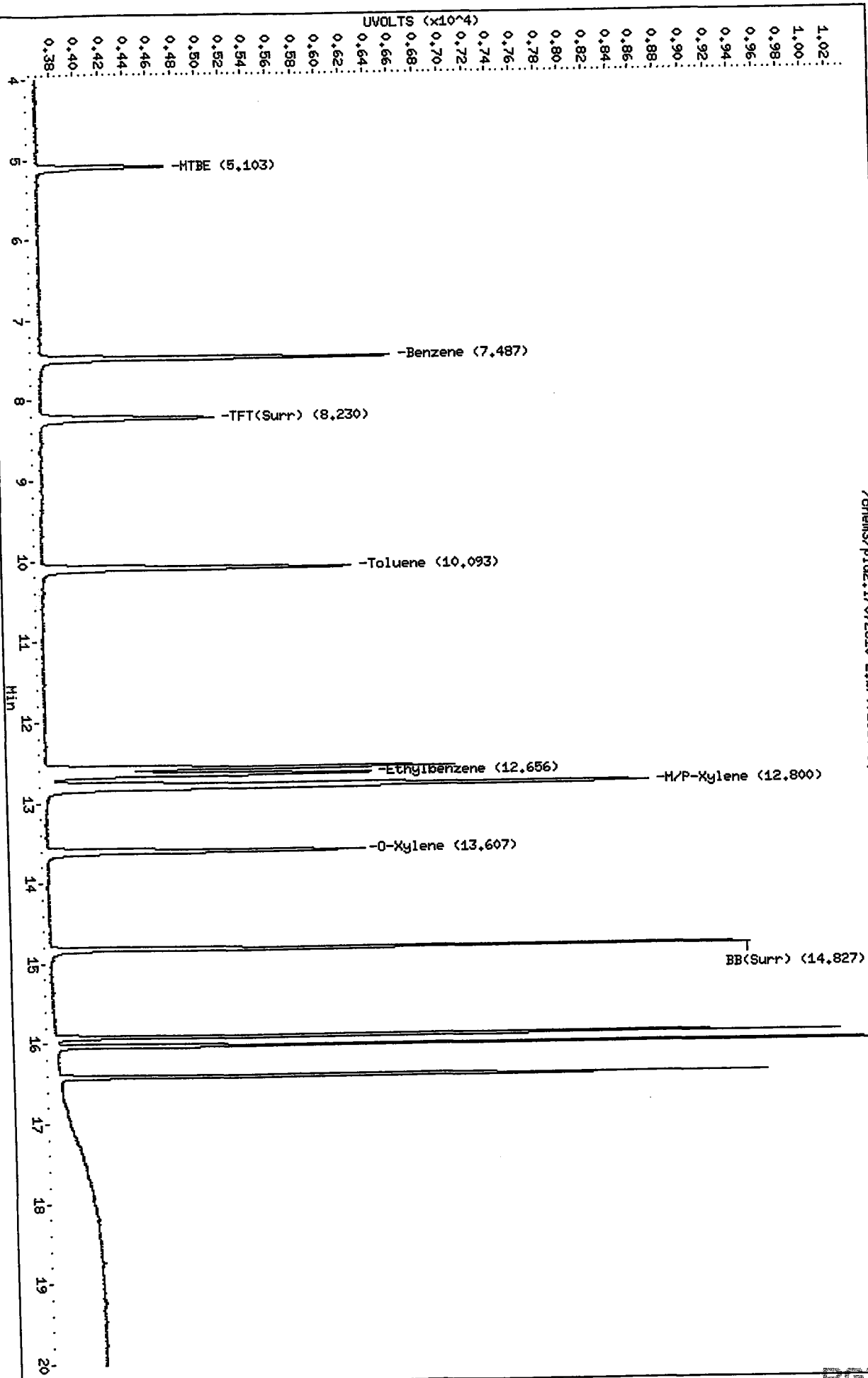


Data File: /chem3/pid2.i/072810-2.b/0728a008.d
Date: 28-JUL-2010 10:48
Client ID:
Sample Info: BETX 25

Column phase: RTX 502-2 PID

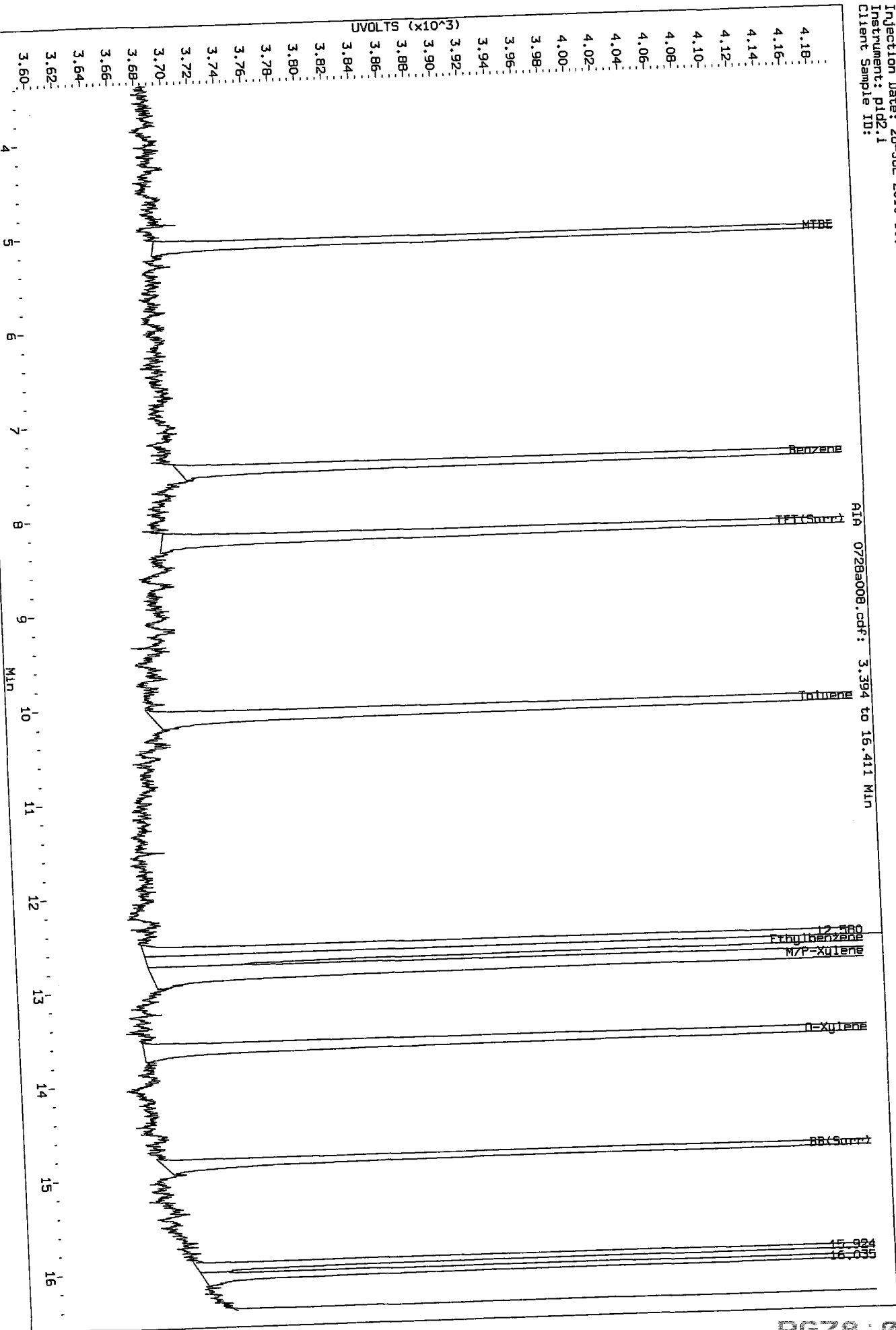
/chem3/pid2.i/072810-2.b/0728a008.d/0728a008.cdf

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



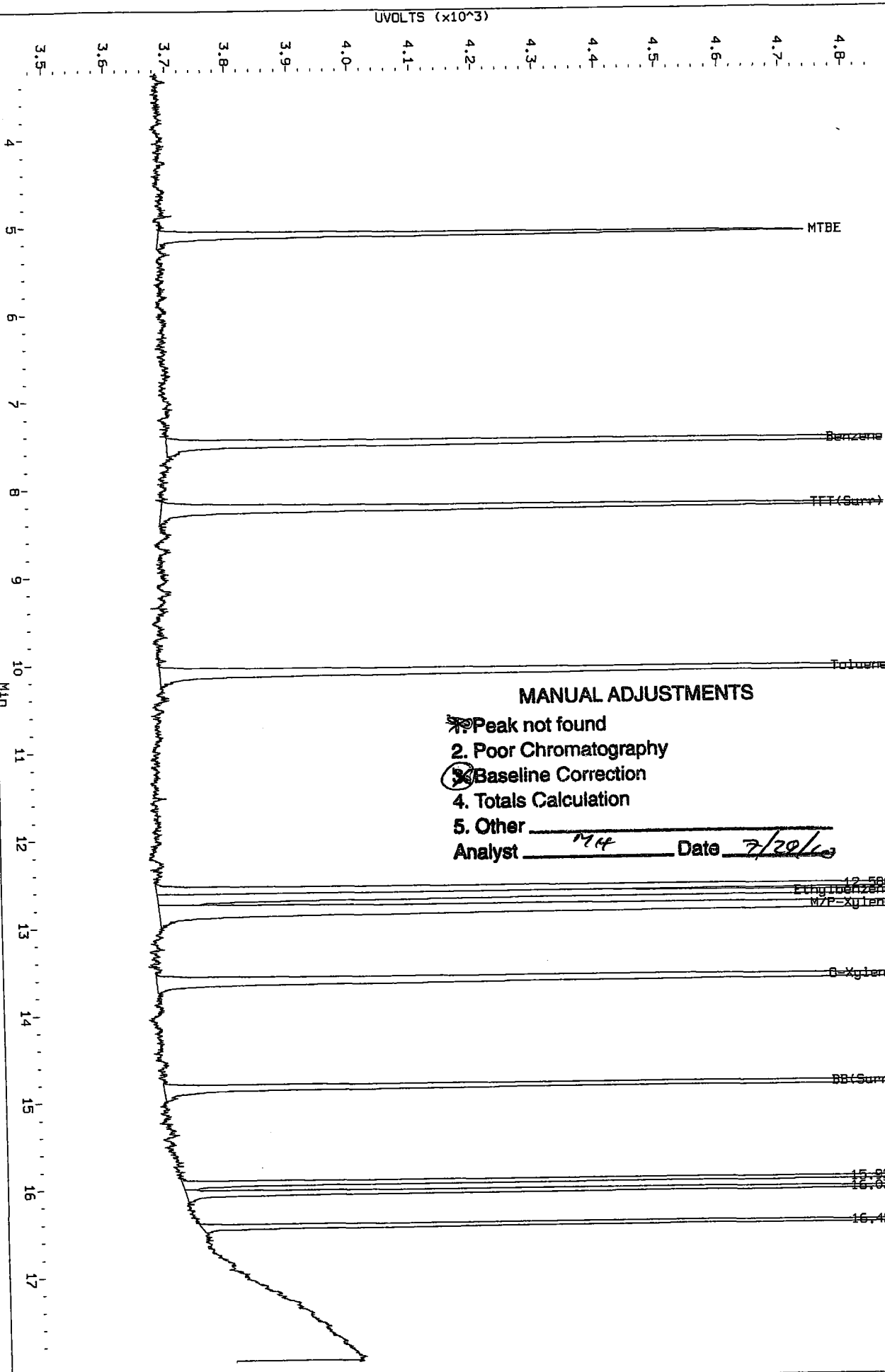
MK
2/29/10

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



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

AIA 0728a008.cdf: 3.248 to 17.976 Min



MANUAL ADJUSTMENTS

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

MH
7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

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

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

=====

FID Surrogates

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

PETROLEUM HYDROCARBONS (FID)

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

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

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

AROMATICS (PID)

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

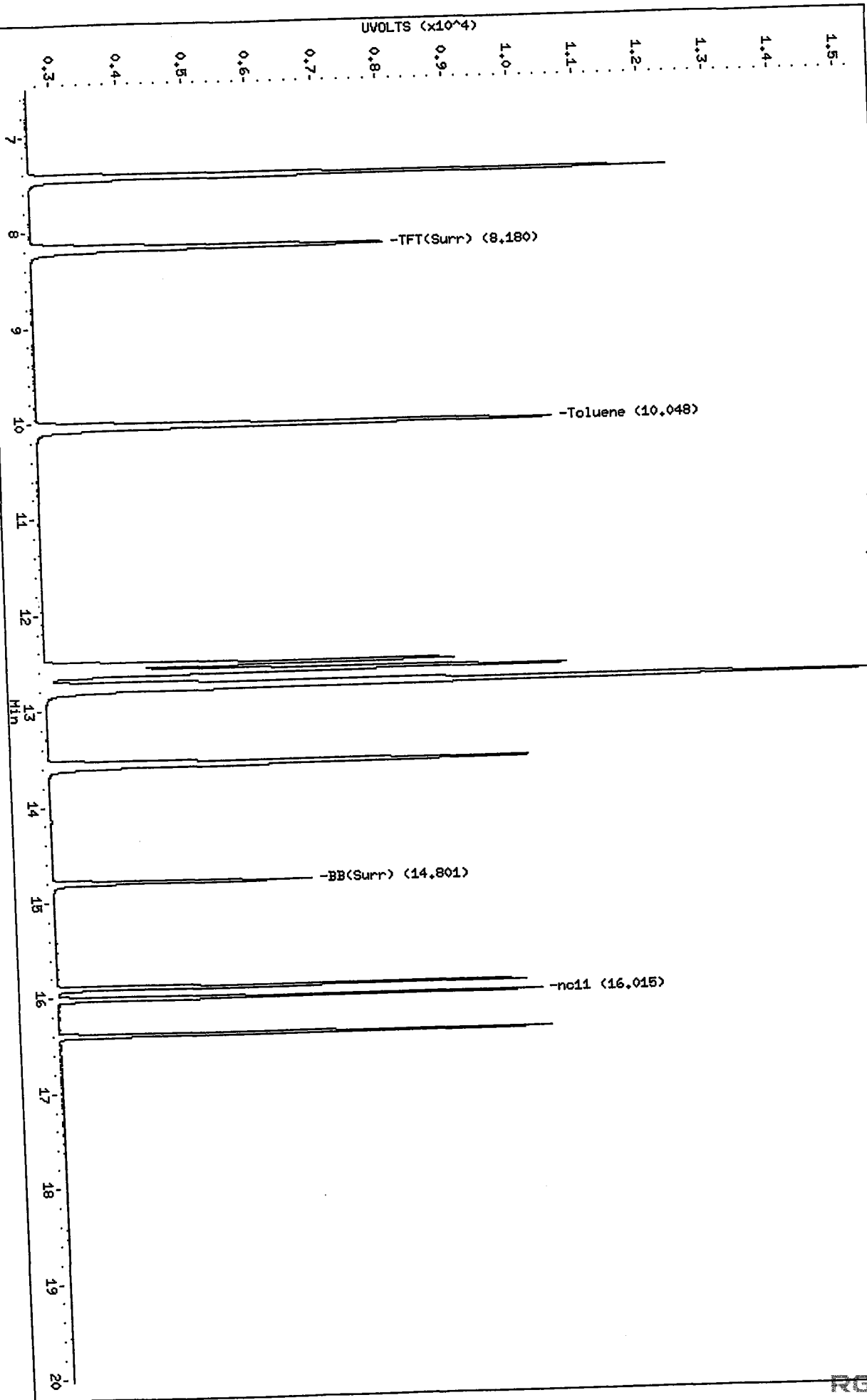
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/072810-1.b/0728a009.d
Date: 28-JUL-2010 11:14
Client ID:
Sample Info: BETX 50

Column phase: RTX 502-2 FID

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

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



Data File: /chem3/pid2.i/072810-2.b/0728a009.d

Date: 28-JUL-2010 11:14

Client ID:

Sample Info: BETX 50

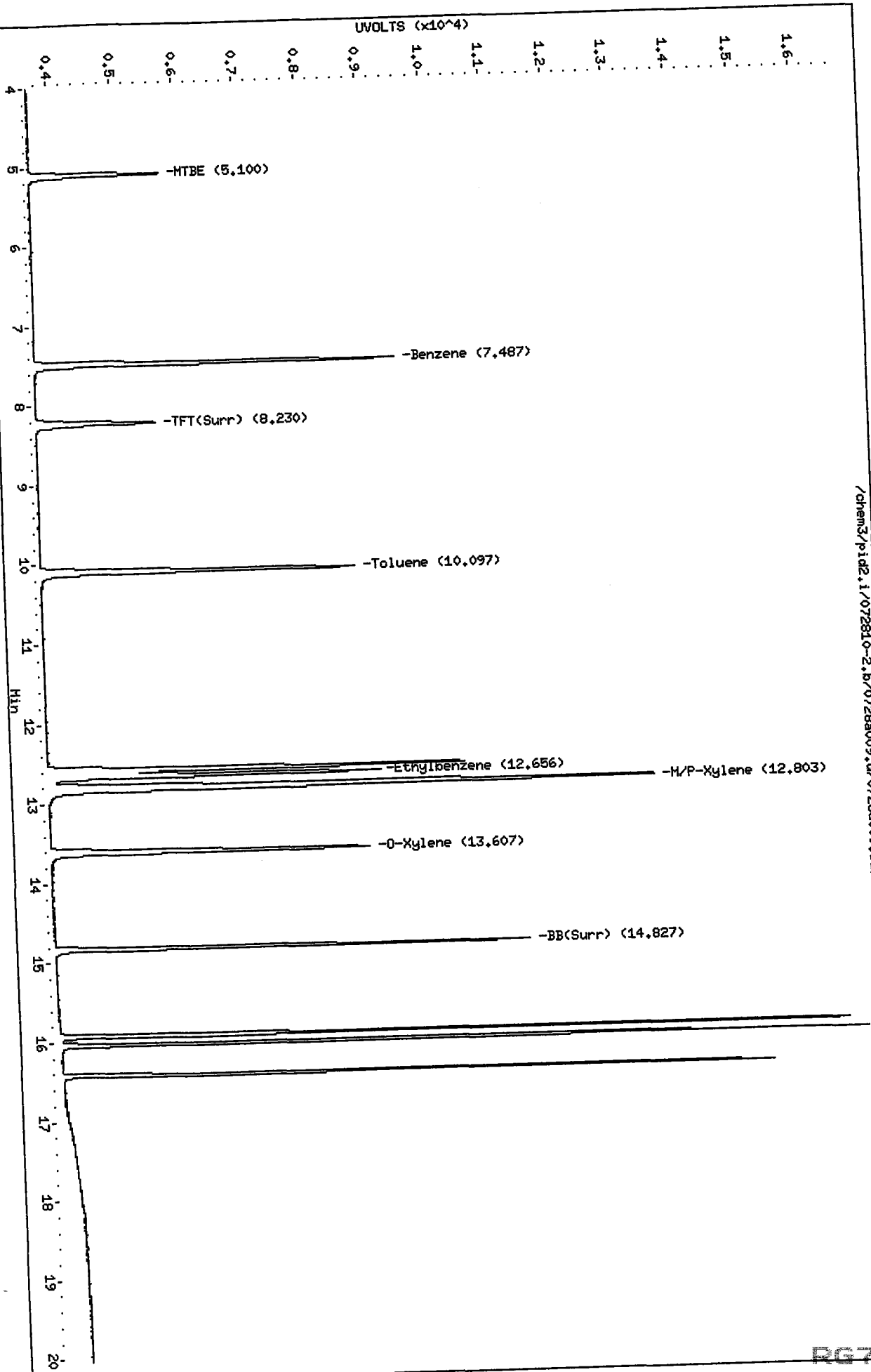
Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: HH

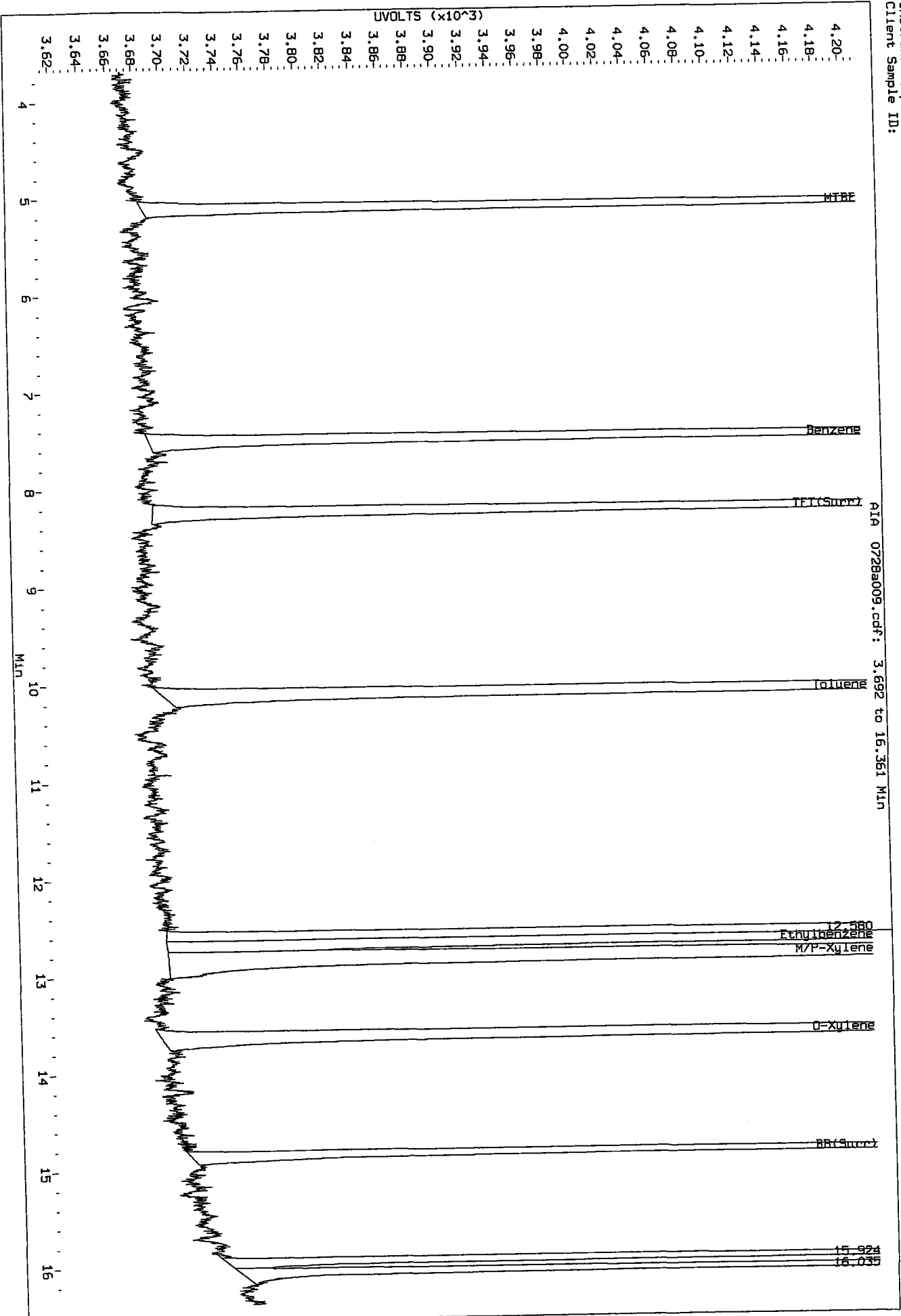
Column diameter: 0.18

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

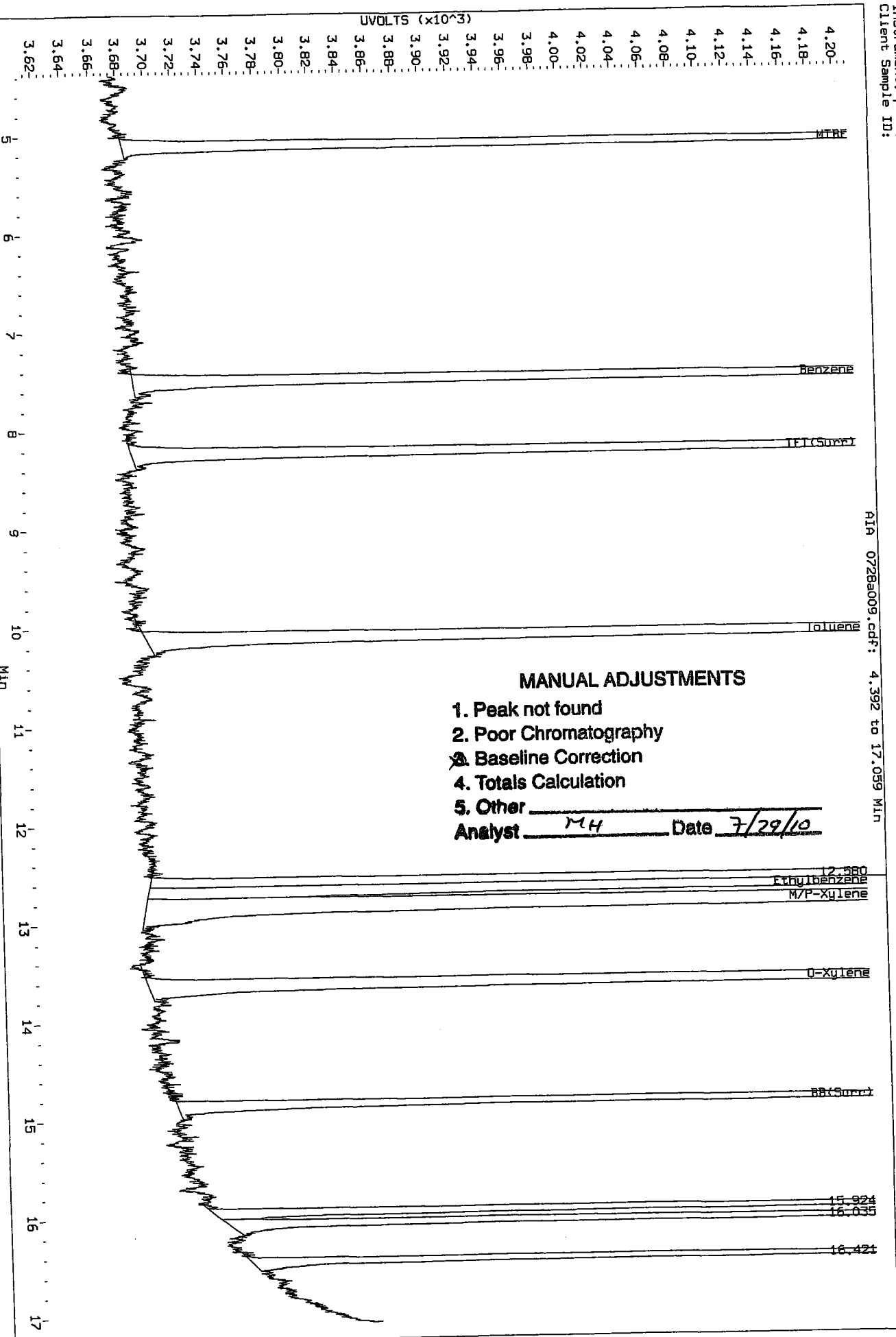


MH
7/28/10

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



Data File: /chem3/pid2_1/072810-2_b/0728a009_d/0728a009.cdf
 Injection Date: 28-JUL-2010 11:14
 Instrument: pid2.1
 Client Sample ID:



MH
7/27/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

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

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

=====

FID Surrogates

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

PETROLEUM HYDROCARBONS (FID)

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

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

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

AROMATICS (PID)

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

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

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

Date : 28-JUL-2010 11:40

Client ID:

Sample Info: BETX 100

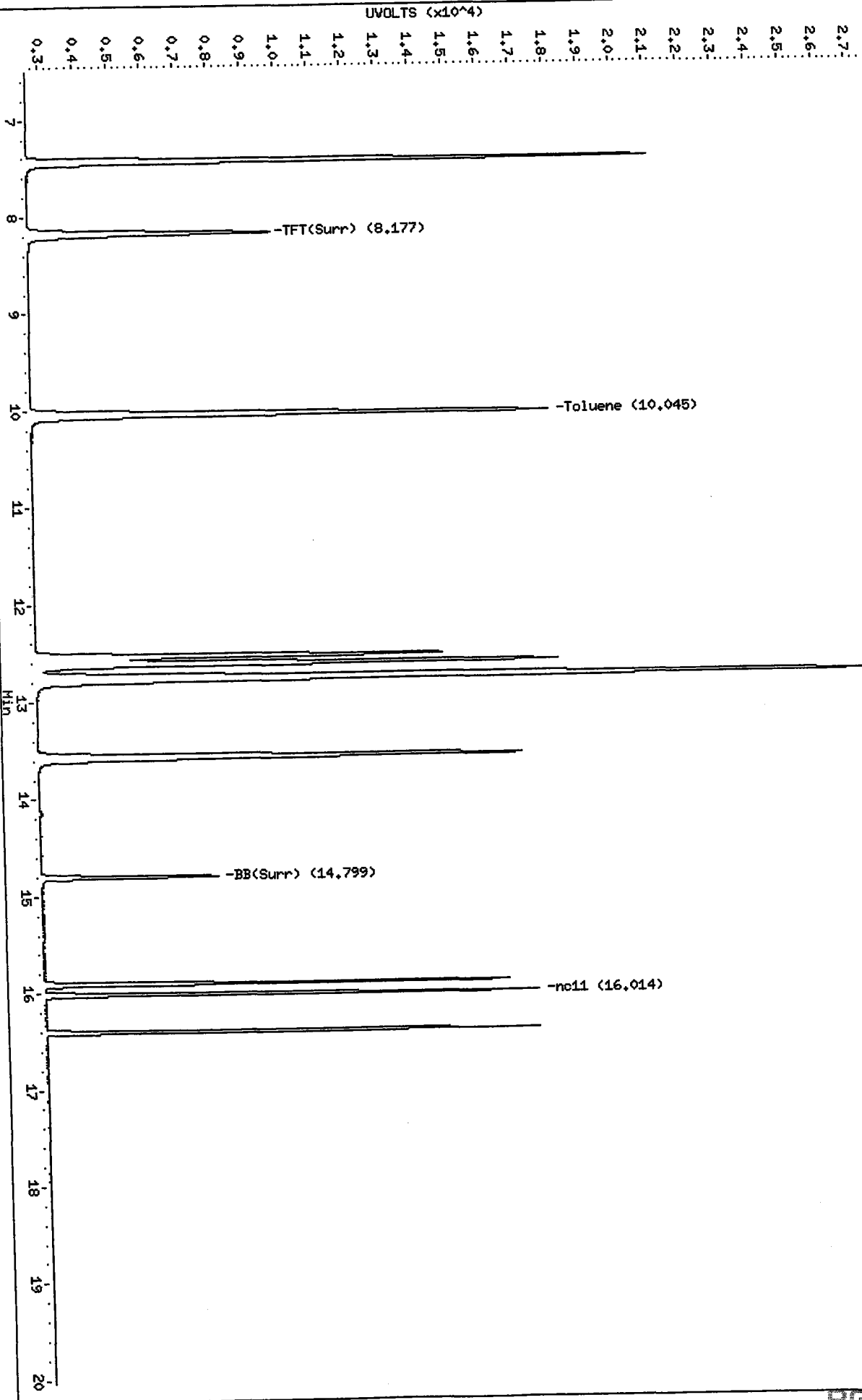
Instrument: pid2.i

Operator: MH

Column diameter: 0.18

Column phase: RTX 502-2 FID

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

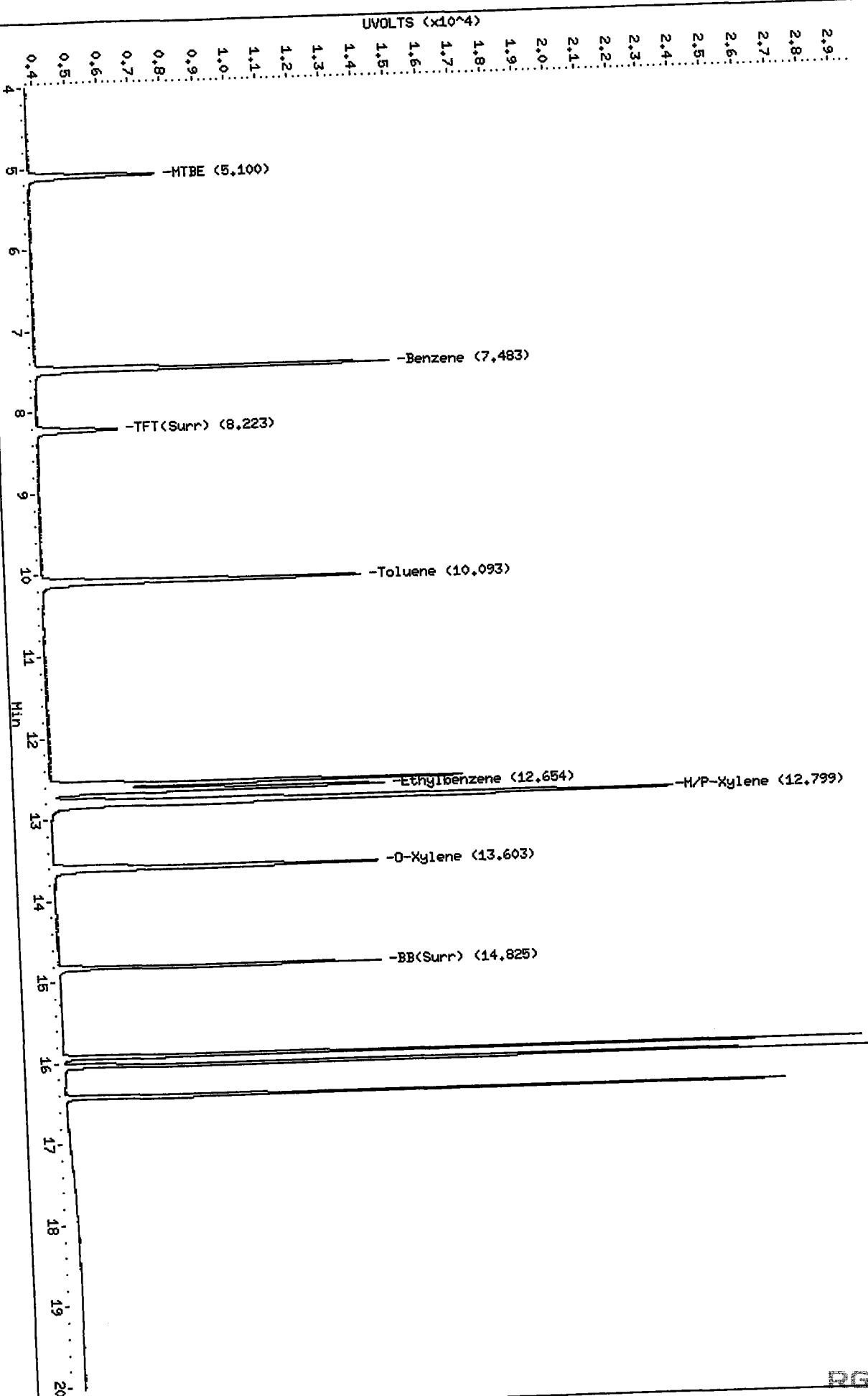


Data File: /chem3/pid2.i/072810-2.b/0728a010.d
Date: 28-JUL-2010 11:40
Client ID:
Sample Info: BETX 100

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

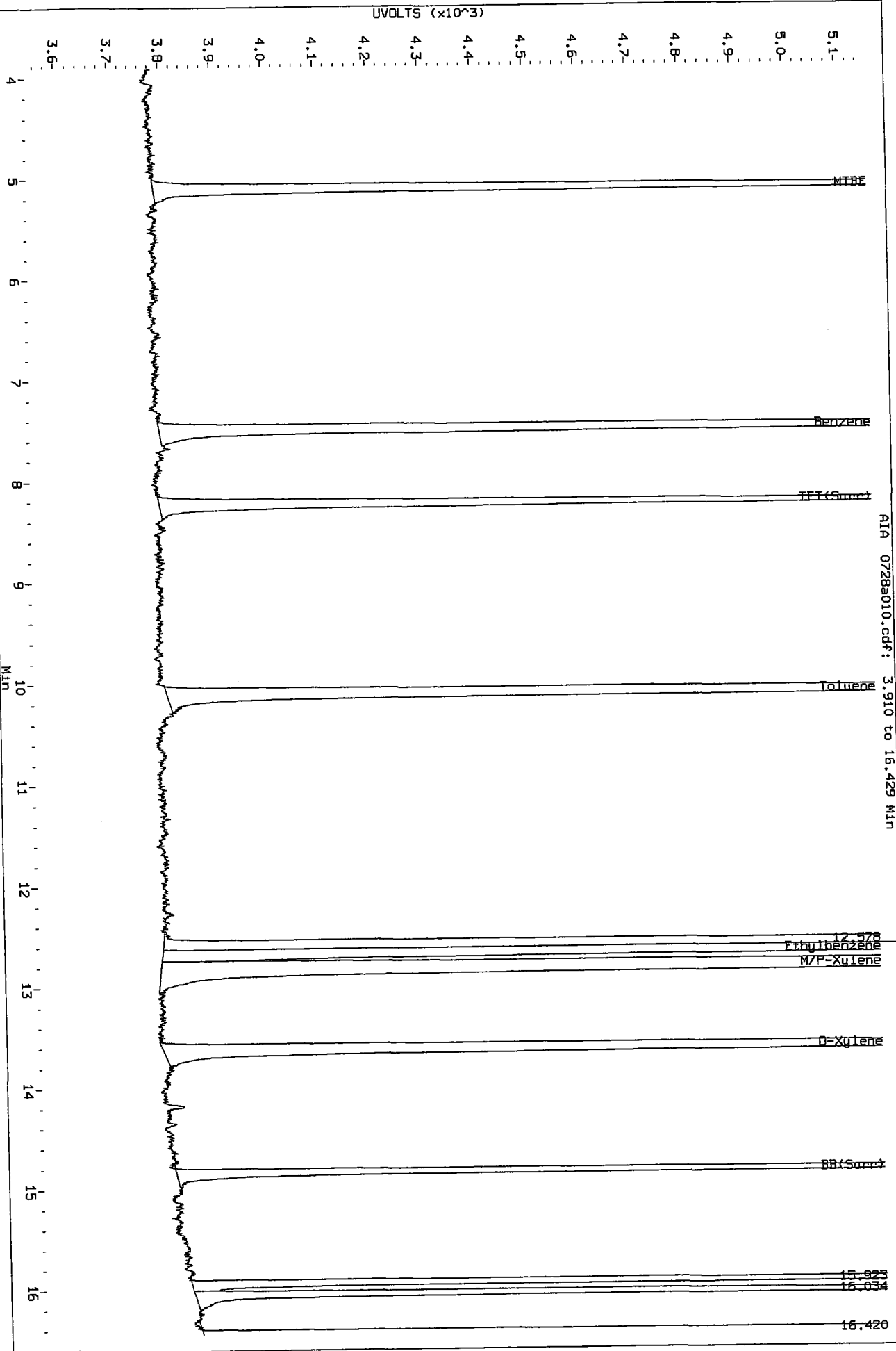
Column phase: RTX 502-2 PID

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



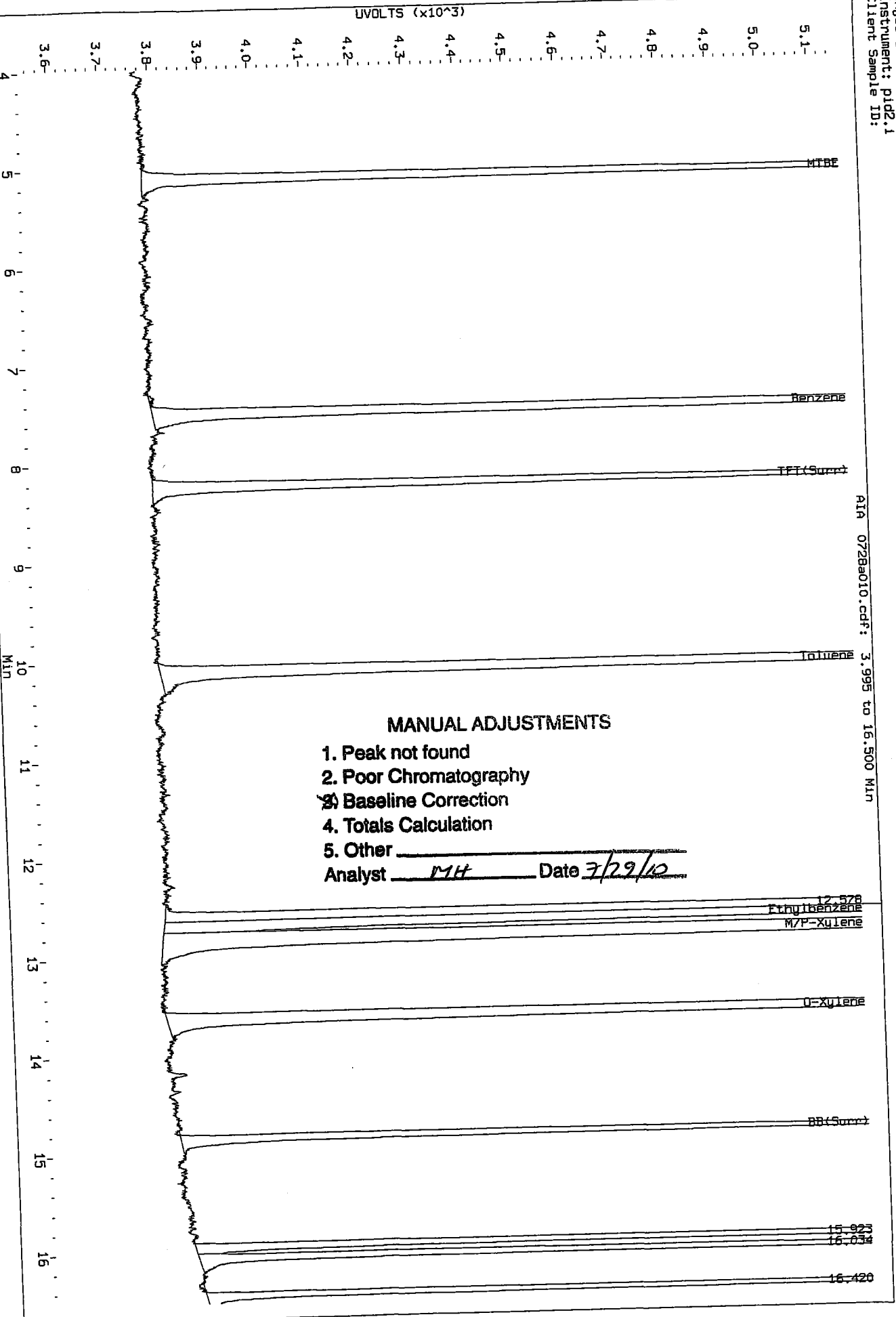
7H
7/20/10

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



AIQ 0728a010.cdf: 3.910 to 16.429 Min

Data File: /chem3/p102.1/072810-2.b/0728a010.d/0728a010.cdf
 Injection Date: 28-JUL-2010 11:40
 Instrument: p102.1
 Client Sample ID:



7/29/10
14

Analytical Resources Inc.
BETX/Gas Quantitation Report

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

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

FID Surrogates

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

PETROLEUM HYDROCARBONS (FID)

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

* Surrogate areas are subtracted from Total Area

PID Surrogates

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

AROMATICS (PID)

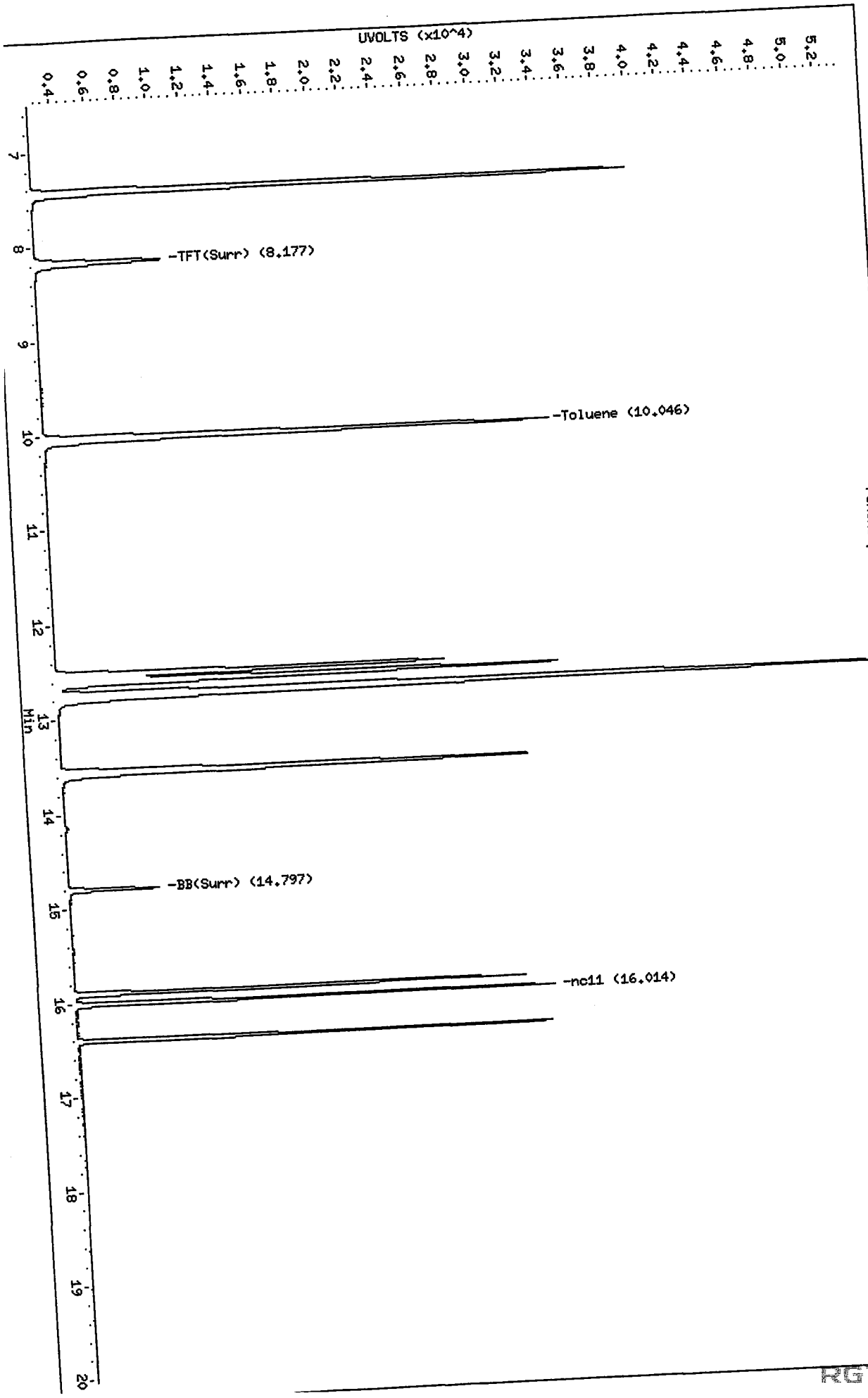
RT	Shift	Response	Amount	Compound
7.483	0.000	23086	198.25N	Benzene
10.093	0.000	21202	204.41N	Toluene
12.656	0.000	21813	190.31	Ethylbenzene
12.803	0.000	41531	428.60	M/P-Xylene
13.605	0.000	21257	209.37	O-Xylene
5.100	0.000	8206	195.45N	MTBE

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

Data File: /chem3/pid2.i/072810-1.b/0728a011.d
Date: 28-JUL-2010 12:06
Client ID:
Sample Info: BETX 200

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

Column phase: RTX 502-2 FID
/chem3/pid2.i/072810-1.b/0728a011.d/0728a011.cdf



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

Date: 28-JUL-2010 12:06

Client ID:

Sample Info: BETX 200

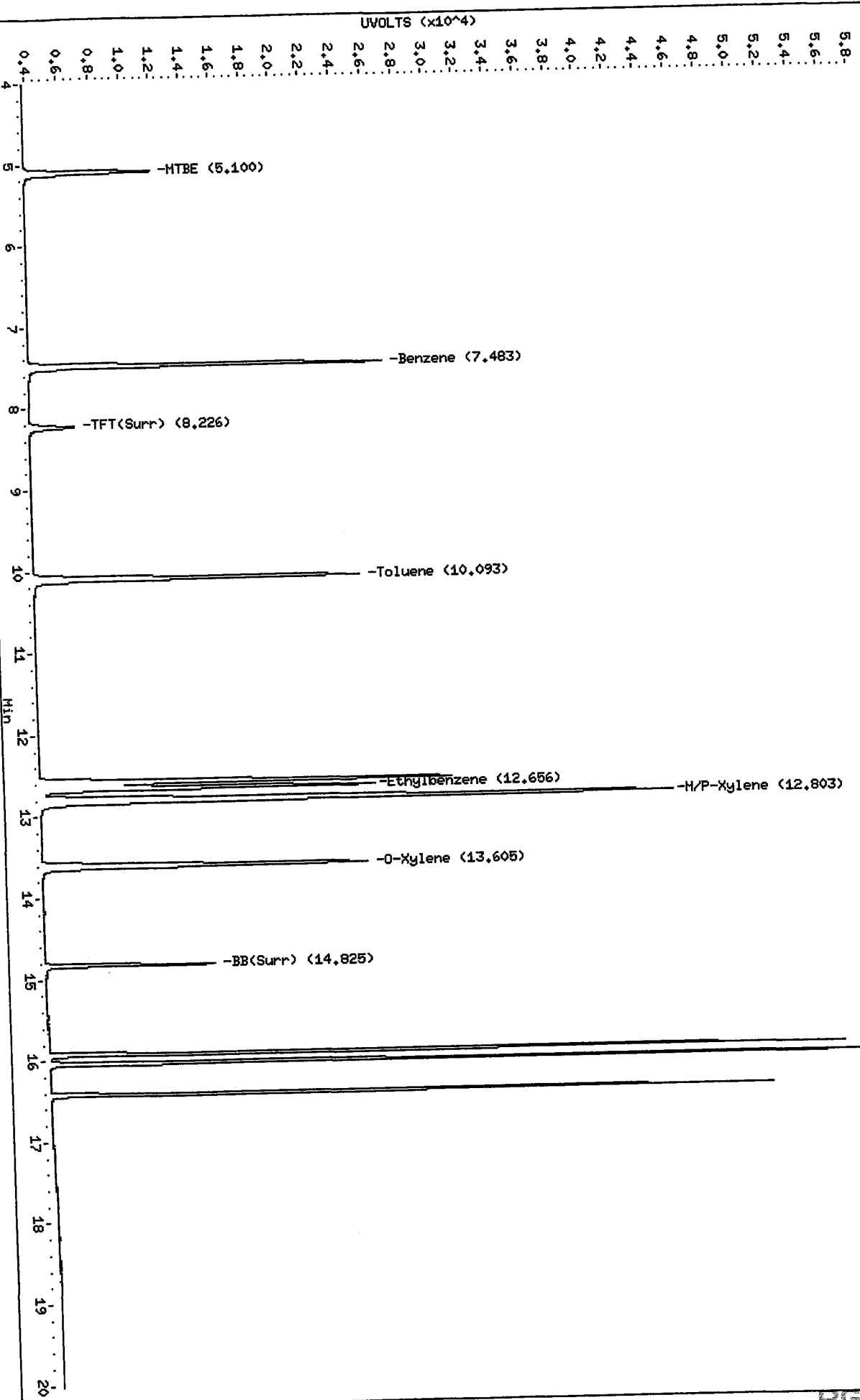
Instrument: pid2.i

Operator: MH

Column diameter: 0.18

Column phase: RTX 502-2 PID

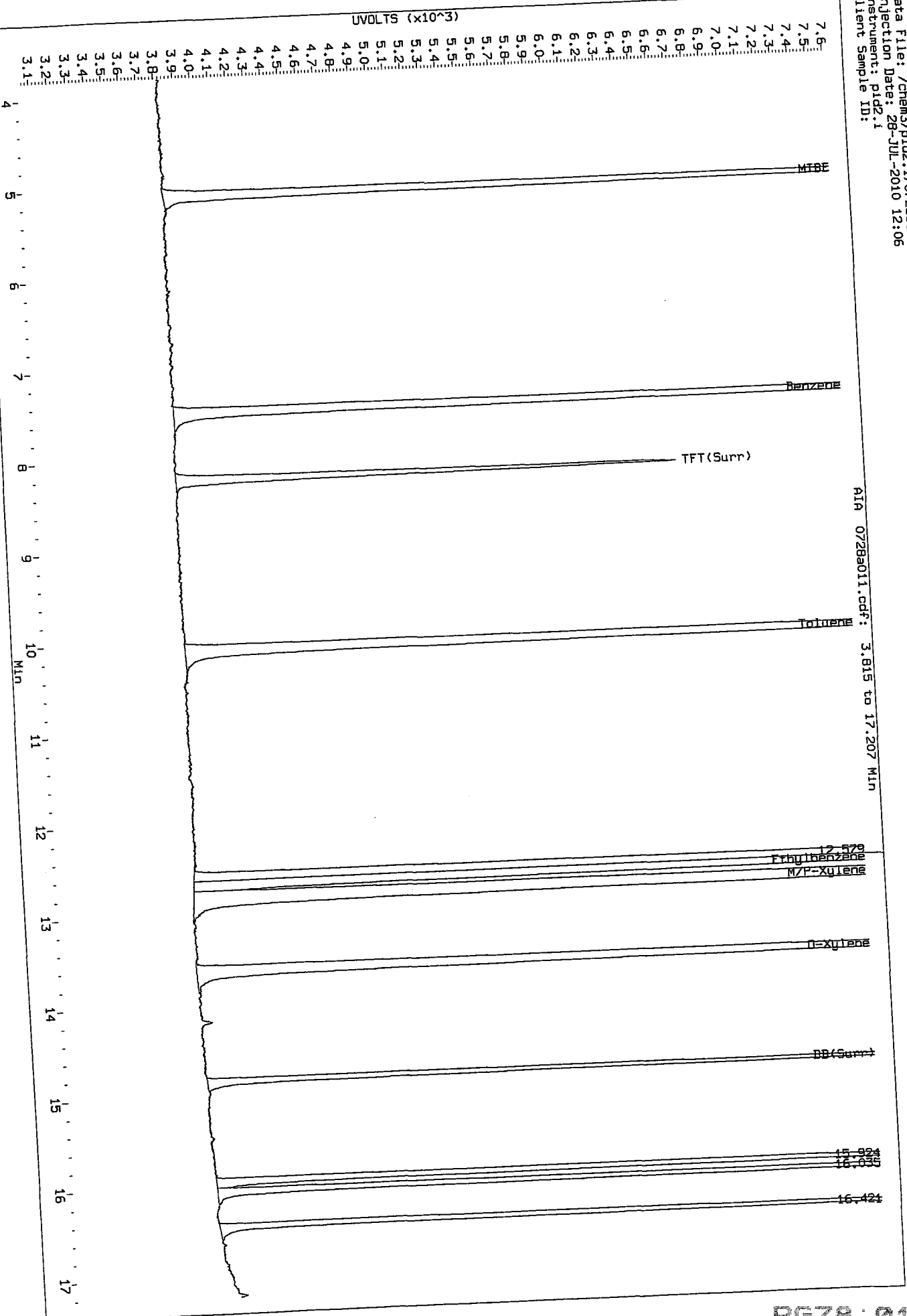
/chem3/pid2.i/072810-2.b/0728a011.d/0728a011.caf



MR
7/27/07

Data File: /chem3/p1d2.1/072810-2.b/0728a011.d/0728a011.cdf
Injection Date: 28-JUL-2010 12:06
Instrument: p1d2.1
Client Sample ID:

AIA 0728a011.cdf: 3.815 to 17.207 MIN

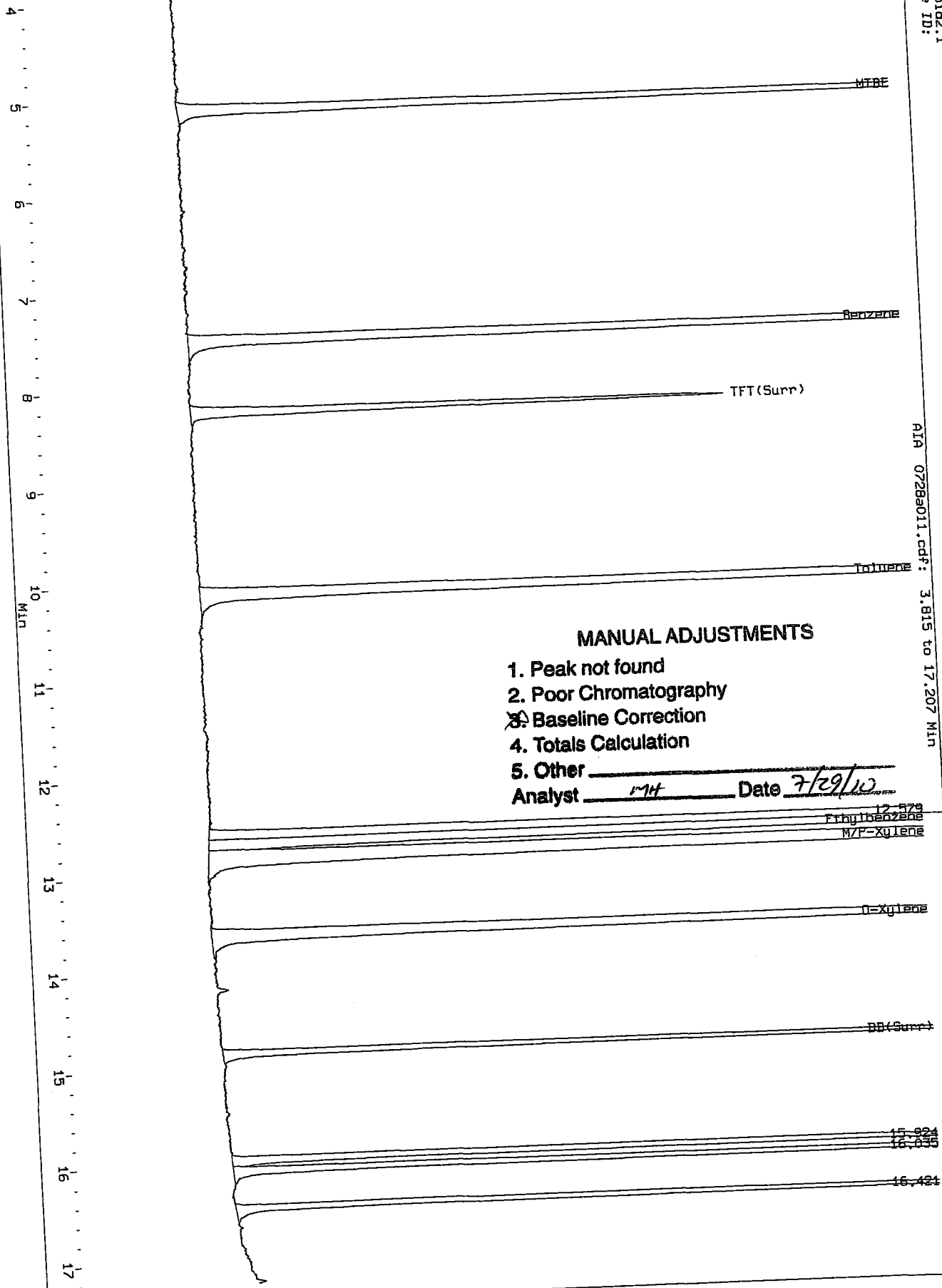


Data File: /chem3/pid2.1/072810-2.b/0728a011.d/0728a011.cdf
 Injection Date: 28-JUL-2010 12:06
 Instrument: pid2.1
 Client Sample ID:

R1A 0728a011.cdf: 3.815 to 17.207 Min

UVOLTS (x10³)

7.6
7.5
7.4
7.3
7.2
7.1
7.0
6.9
6.8
6.7
6.6
6.5
6.4
6.3
6.2
6.1
6.0
5.9
5.8
5.7
5.6
5.5
5.4
5.3
5.2
5.1
5.0
4.9
4.8
4.7
4.6
4.5
4.4
4.3
4.2
4.1
4.0
3.9
3.8
3.7
3.6
3.5
3.4
3.3
3.2
3.1



7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

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

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

FID Surrogates

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

PETROLEUM HYDROCARBONS (FID)

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

* Surrogate areas are subtracted from Total Area

PID Surrogates

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

AROMATICS (PID)

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

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

Data File: /chem3/pid2.i/072810-1.b/0728a012.d
Date: 28-JUL-2010 12:32

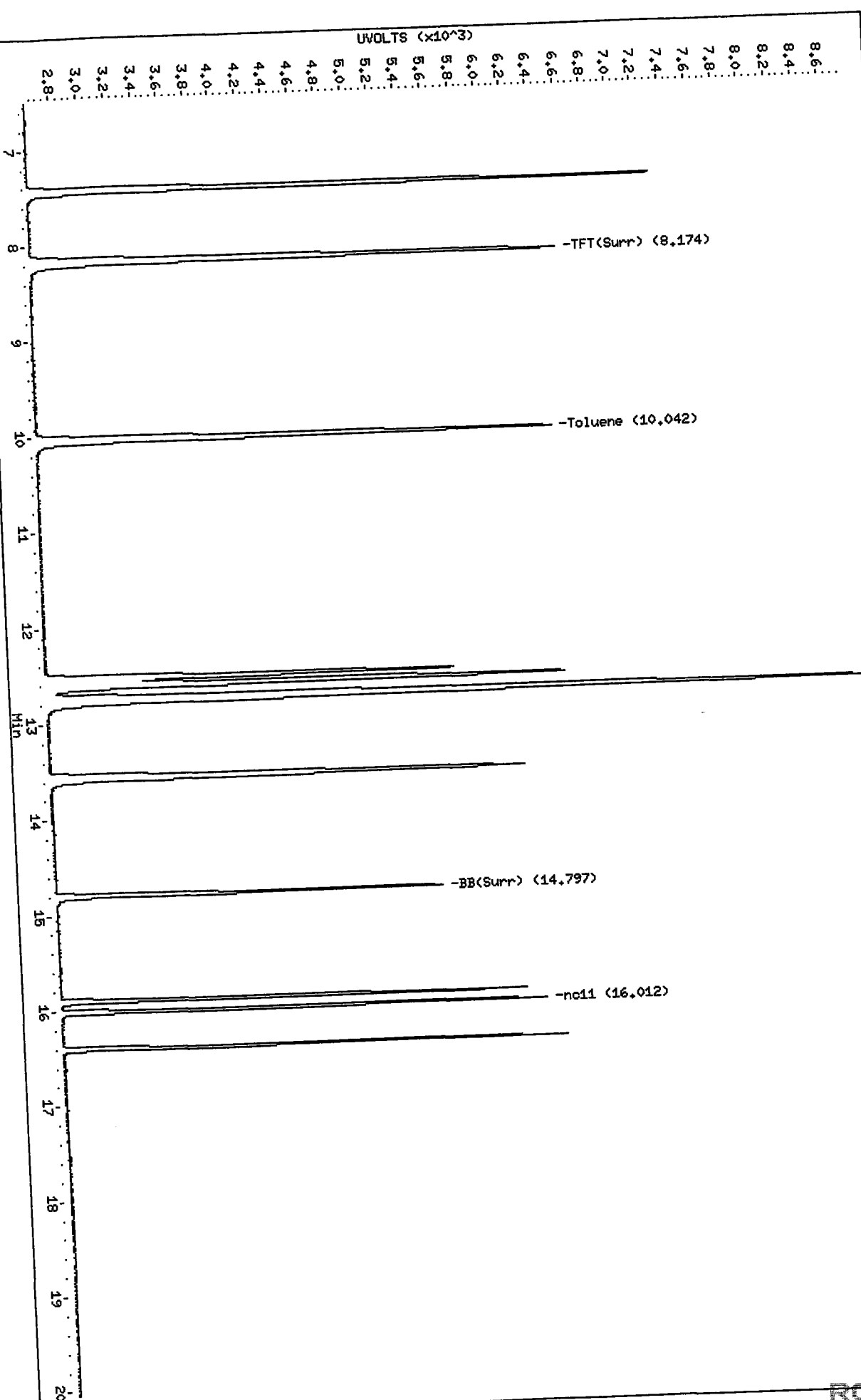
Client ID:
Sample Info: BETX ICV

Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: MH
Column diameter: 0.18

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



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

Date: 28-JUL-2010 12:32

Client ID:

Sample Info: BETX ICV

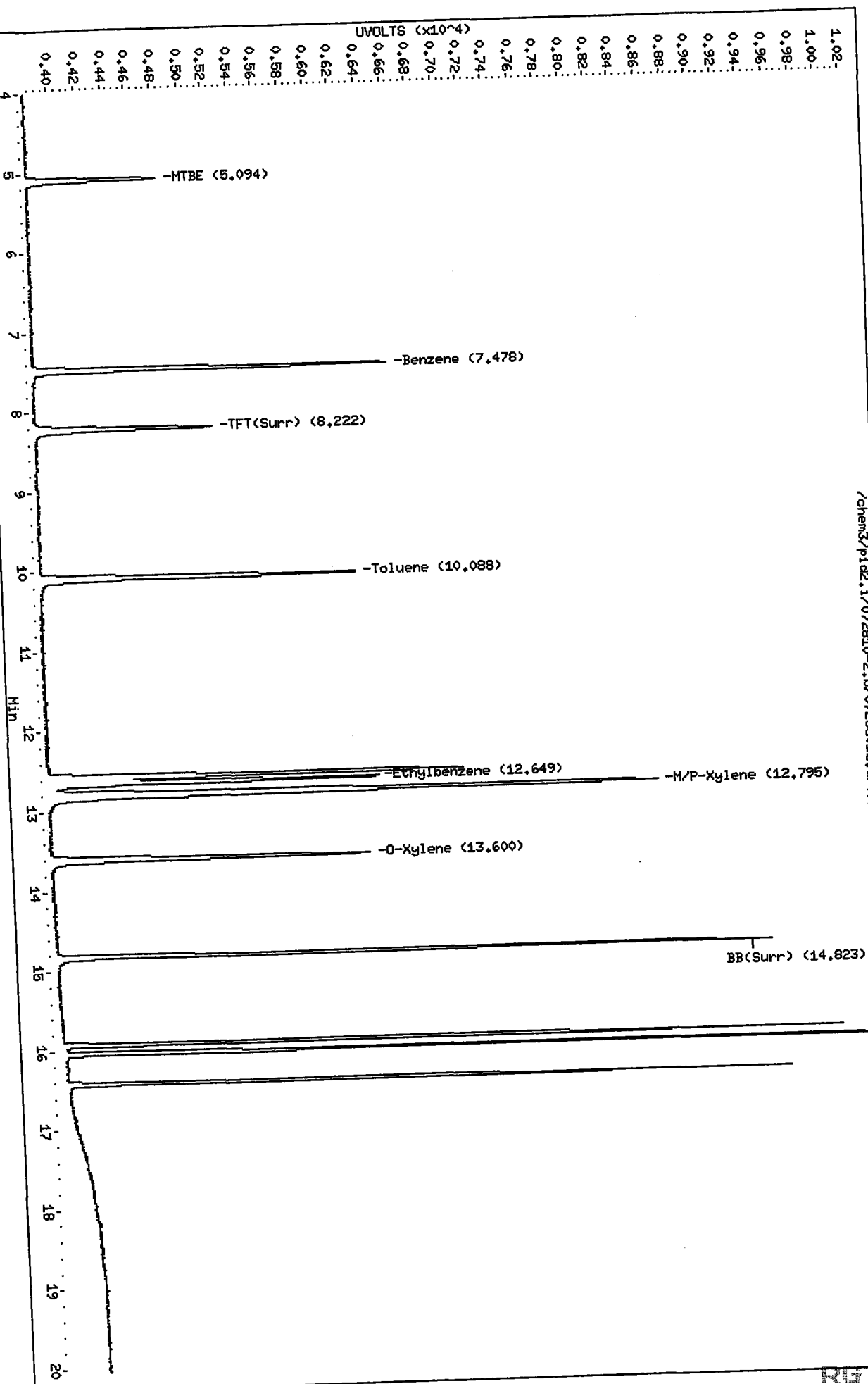
Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: HH

Column diameter: 0.18

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



Report Date : 29-Jul-2010 11:33

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

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

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
18 NWTPHG	+++++	+++++	+++++	+++++	+++++	+++++	+++++	0.492	0.422-0.562	+++++	+++++
20 WAGAS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	0.937	0.867-1.007	+++++	+++++
19 AK101	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.251	1.181-1.321	+++++	+++++
21 8015GAS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.539	1.469-1.609	+++++	+++++
1 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.834	4.764-4.904	+++++	+++++
2 nC6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.321	5.251-5.391	+++++	+++++
3 nC7	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.254	7.184-7.324	+++++	+++++
4 TFF (Surr)	8.186	8.182	8.183	8.180	8.180	8.177	8.177	8.186	8.116-8.256	8.181	0.003
5 nC8	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.659	9.589-9.729	+++++	+++++
6 Toluene	10.048	10.051	10.050	10.048	10.048	10.045	10.046	10.048	9.978-10.118	10.048	0.002
7 nC9	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.245	12.175-12.315	+++++	+++++
22 BFB (Surr)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.027	15.957-16.097	+++++	+++++
8 nC10-Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.563	14.493-14.633	+++++	+++++
9 BB (Surr)	14.805	14.803	14.802	14.801	14.801	14.799	14.797	14.805	14.735-14.875	14.801	0.003
10 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.438	15.368-15.508	+++++	+++++
11 nC11	16.015	16.017	16.016	16.015	16.015	16.014	16.014	16.015	15.945-16.085	16.015	0.001
12 nC12-Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.048	16.978-17.118	+++++	+++++

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

MH

Reviewer 1
Reviewer 2

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/pid2.i/072810-1.1.b

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

Time Filename LabID ClientId DF Manually Integrated Compounds

0604	0728a001.d	RINSE		1	NO MANUAL INTEGRATION
0629	0728a002.d	RT+BCAL 1		1	NO MANUAL INTEGRATION
0655	0728a003.d	GCAL 1		1	NO MANUAL INTEGRATION
0904	0728a004.d	RINSE		1	NO MANUAL INTEGRATION
0930	0728a005.d	BETX .25		1	NO MANUAL INTEGRATION
0956	0728a006.d	BETX .5		1	Toluene, TFT(Surr),
1022	0728a007.d	BETX 5		1	NO MANUAL INTEGRATION
1048	0728a008.d	BETX 25		1	NO MANUAL INTEGRATION
1114	0728a009.d	BETX 50		1	NO MANUAL INTEGRATION
1140	0728a010.d	BETX 100		1	NO MANUAL INTEGRATION
1206	0728a011.d	BETX 200		1	NO MANUAL INTEGRATION
1232	0728a012.d	BETX ICV		1	NO MANUAL INTEGRATION
1258	0728a013.d	RINSE		1	NO MANUAL INTEGRATION
1324	0728a014.d	GAS .1		1	nC9, Naphthalene, nCl3,
1350	0728a015.d	GAS .25		1	nCl3,
1416	0728a016.d	GAS 1		1	NO MANUAL INTEGRATION
1442	0728a017.d	GAS 2.5		1	NO MANUAL INTEGRATION
1508	0728a018.d	GAS 5		1	NO MANUAL INTEGRATION
1534	0728a019.d	GAS 20		1	NO MANUAL INTEGRATION
1600	0728a020.d	RINSE		1	NO MANUAL INTEGRATION
1626	0728a021.d	GAS ICV		1	NO MANUAL INTEGRATION

81 200

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

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

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0604	0728a001.d	RINSE		1	NO MANUAL INTEGRATION
0629	0728a002.d	RT+BCAL 1		1	NO MANUAL INTEGRATION
0655	0728a003.d	GCAL 1		1	NO MANUAL INTEGRATION
0904	0728a004.d	RINSE		1	NO MANUAL INTEGRATION
0930	0728a005.d	BETX .25		1	Benzene, Toluene, Ethylbenzene, M/P-Xylene, O-Xylene, MTBE, TFT(Surr), BB(Surr),
0956	0728a006.d	BETX .5		1	Benzene, Toluene, Ethylbenzene, M/P-Xylene, O-Xylene, MTBE, TFT(Surr), BB(Surr),
1022	0728a007.d	BETX 5		1	Benzene, Toluene, M/P-Xylene, O-Xylene, MTBE, TFT(Surr), BB(Surr),
1048	0728a008.d	BETX 25		1	Benzene, Toluene, M/P-Xylene, MTBE, TFT(Surr), BB(Surr),
1114	0728a009.d	BETX 50		1	Benzene, Toluene, M/P-Xylene, O-Xylene, MTBE, TFT(Surr), BB(Surr),
1140	0728a010.d	BETX 100		1	Benzene, Toluene, O-Xylene, MTBE, TFT(Surr),
1206	0728a011.d	BETX 200		1	Benzene, Toluene, MTBE,
1232	0728a012.d	BETX ICV		1	NO MANUAL INTEGRATION
1258	0728a013.d	RINSE		1	NO MANUAL INTEGRATION
1324	0728a014.d	GAS .1		1	NO MANUAL INTEGRATION
1350	0728a015.d	GAS .25		1	NO MANUAL INTEGRATION
1416	0728a016.d	GAS 1		1	NO MANUAL INTEGRATION
1442	0728a017.d	GAS 2.5		1	NO MANUAL INTEGRATION
1508	0728a018.d	GAS 5		1	NO MANUAL INTEGRATION
1534	0728a019.d	GAS 20		1	NO MANUAL INTEGRATION

1600 0728a020.d RINSE

1

NO MANUAL INTEGRATION

1626 0728a021.d GAS ICV

1

NO MANUAL INTEGRATION



VOA Analyst Notes / Corrective Action Log

ARI Project ID: Gas Curve Client ID: _____

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

Parameter(s): Gas

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

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

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

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

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

Gas ICU Targeted 2.5

Additional Details on Reverse: Yes / No

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

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

6a
GAS INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: 20100728-2

Instrument/Det: PID3.I/RTX 502-2 FID

Project:

Calibration Date: 28-JUL-2010

SDG No.: 20100728-2

Gas Range	RF1 0.1	RF2 0.25	RF3 1.0	RF4 2.5	RF5 5.0	RF6 20	Ave RF	%RSD
WA Gas	1009250	772696	761867	782843	800745	839442	827807	11.2
AK Gas	1342560	1066876	1050254	1042480	1063396	1225137	1131784	10.9
NW Gas	1102210	829838	811111	828987	844316	875713	882029	12.5
8015Gas	1959390	1600162	1564234	1551602	1571254	1738000	1664107	9.6

Surrogates Rel. Rec.	RF1 22	RF2 44	RF3 67	RF4 100	RF5 133	RF6 178	Ave RF	%RSD

<- Indicates %RSD outside limits
Surrogate areas are not included in RF calculation.

Quant Ranges : WA Gas Toluene - nC12
 AK Gas nC6 - nC10
 NW Gas Toluene - Naphthalene
 8015 Gas 2-Methylpentane - 1,2,4-Trimethylbenzene

Calibration Files Analysis Time

0728a012.d	28-JUL-2010 11:42
0728a004.d	28-JUL-2010 08:07
0728a005.d	28-JUL-2010 08:31
0728a006.d	28-JUL-2010 08:56
0728a007.d	28-JUL-2010 09:20
0728a008.d	28-JUL-2010 09:45

Mr.
7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

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

FID Surrogates

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

PETROLEUM HYDROCARBONS (FID)

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

M Indicates manual integration within range

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

PID Surrogates

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

SW8021 (PID)

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

A Indicates Peak Area was used for quantitation instead of Height

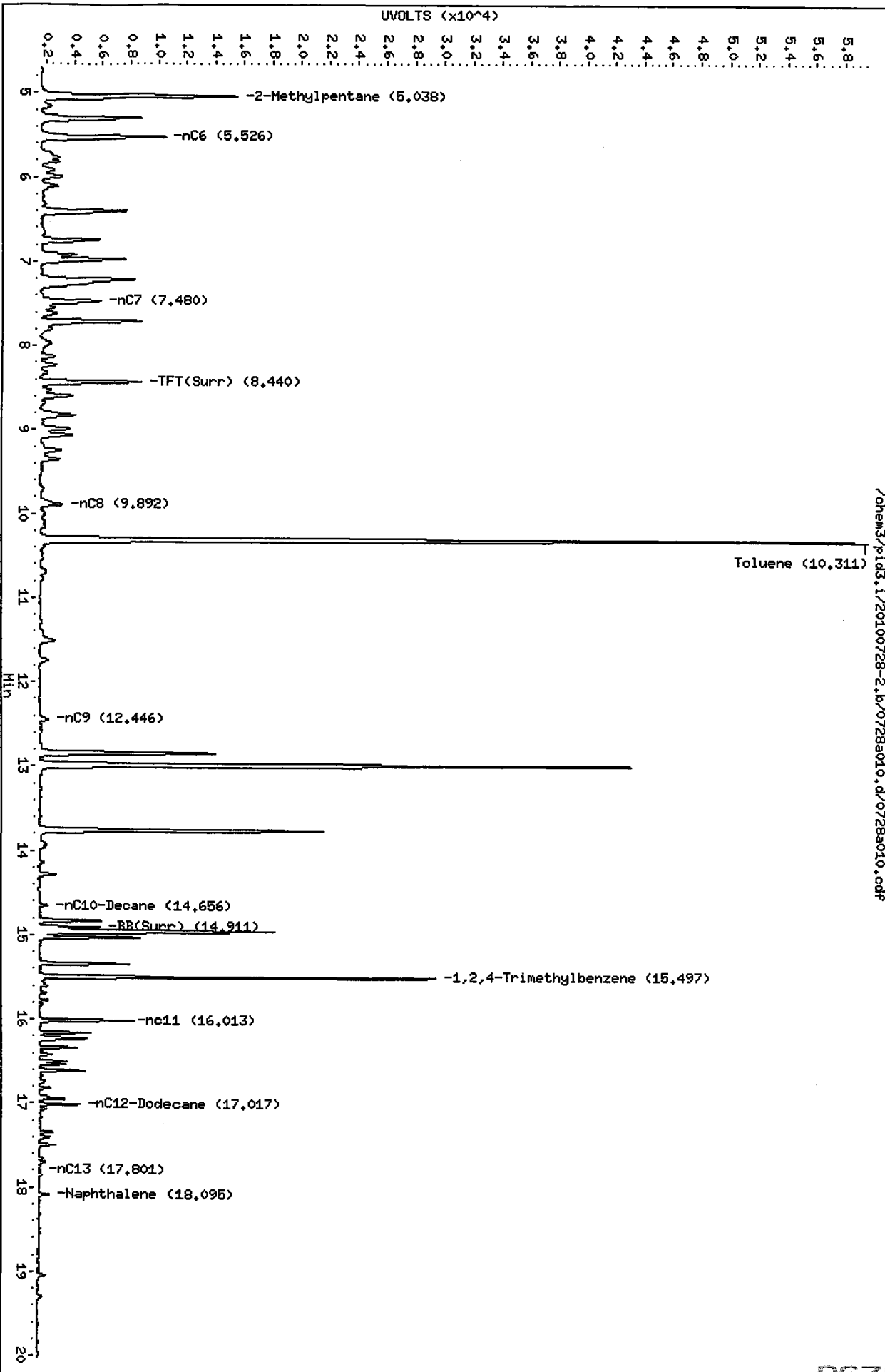
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100728-2.b/0728a010.d
Date: 28-JUL-2010 10:34

Client ID:
Sample Info: GAS ICV

Column phase: RTX 502-2 FID

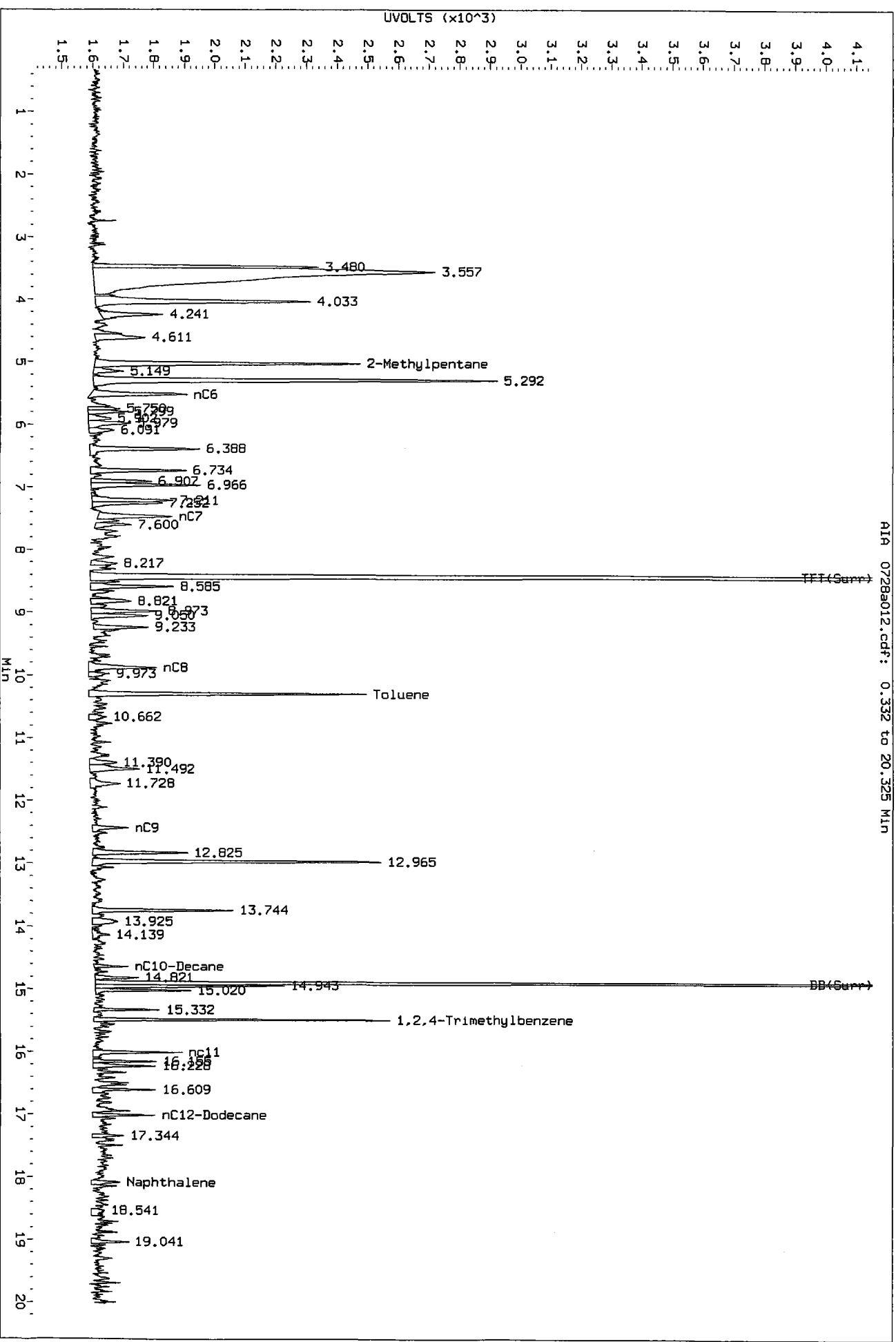
Instrument: pid3.i
Operator: HH
Column diameter: 0.18



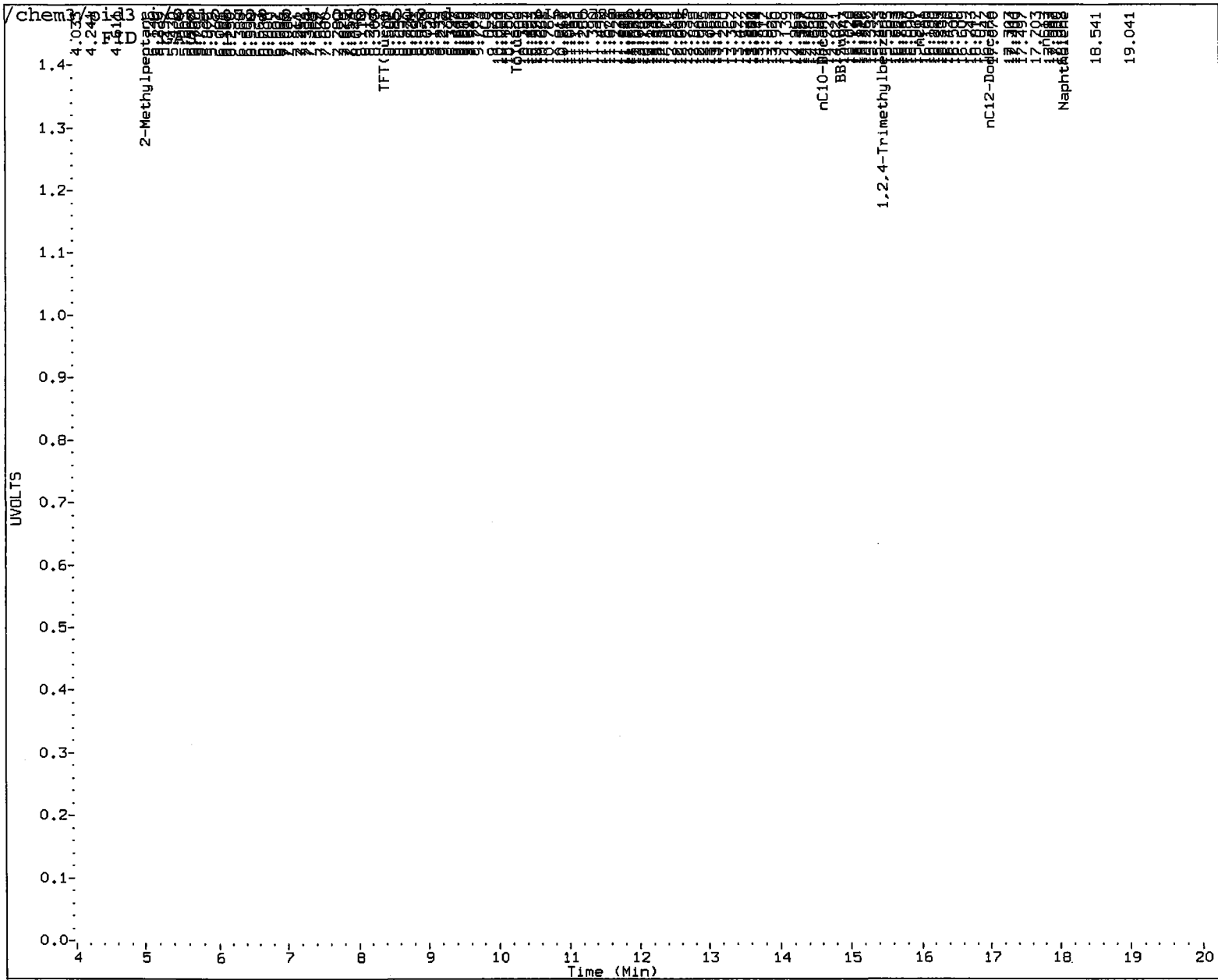
/chem3/pid3.i/20100728-2.b/0728a010.d/0728a010.cdf

MH
7/27/10
011627

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



AIA 0728a012.cdf: 0.332 to 20.325 MIN



MANUAL INTEGRATION

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

Analyst: MH Date: 7/29/10

MH
7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100728-2.b/0728a004.d
Data file 2: /chem3/pid3.i/20100728-1.b/0728a004.d
Method: /chem3/pid3.i/20100728-1.b/PIDB.m
Instrument: pid3.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 29-JUN-2010

ARI ID: GAS .25
Client ID:
Injection Date: 28-JUL-2010 08:07
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

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

PETROLEUM HYDROCARBONS (FID)

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

M Indicates manual integration within range

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

PID Surrogates

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

SW8021 (PID)

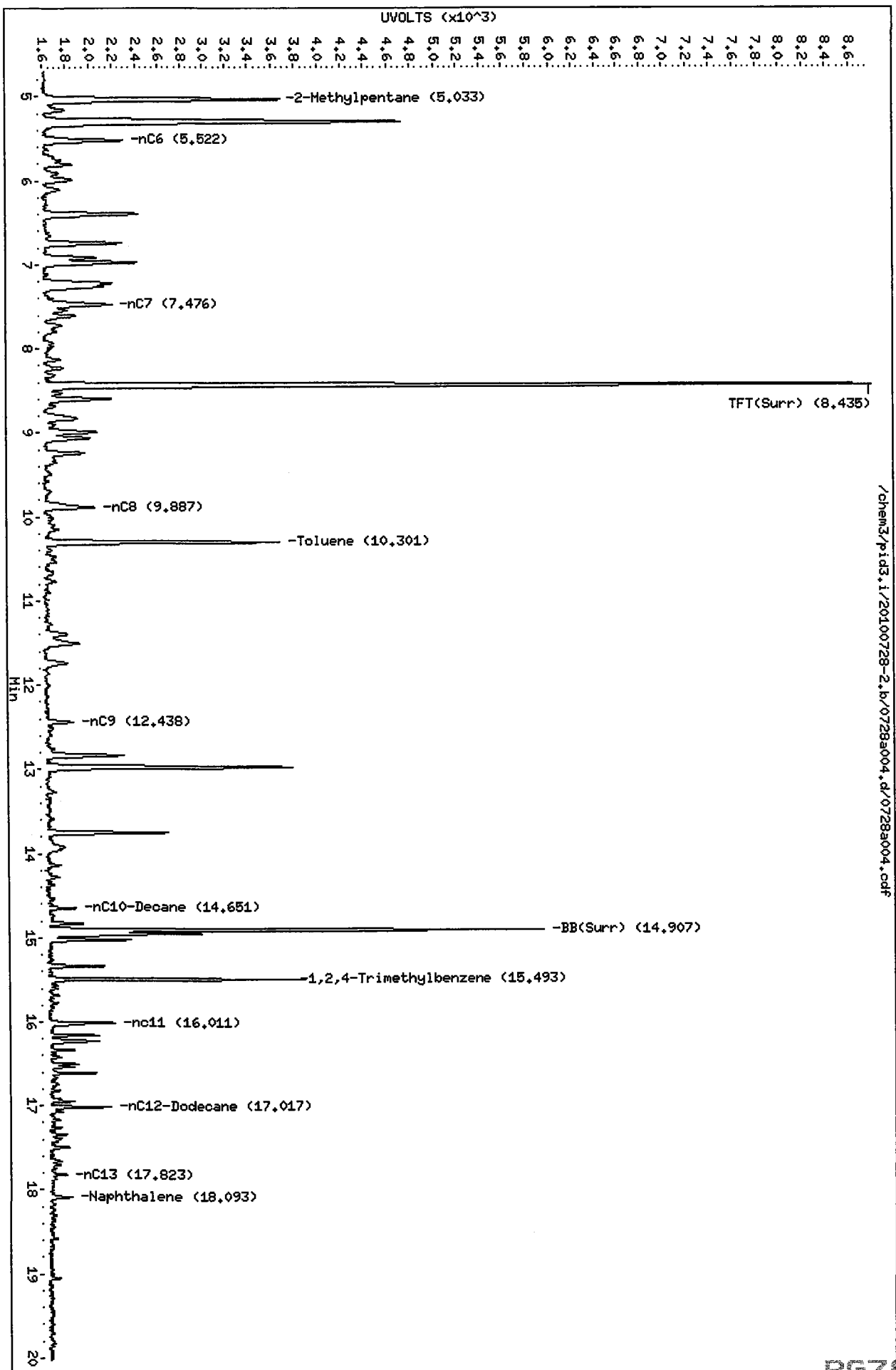
RT	Shift	Response	Amount	Compound
7.711	0.024	617	0.47	Benzene
10.300	0.029	9631	7.30	Toluene
12.835	0.030	2739	2.20	Ethylbenzene
12.974	0.032	10740	7.98	M/P-Xylene
13.751	0.027	4547	3.54	O-Xylene
5.301	0.013	9271	26.06	MTBE

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

Data File: /chem3/pid3.i/20100728-2.b/0728a004.d
Date : 28-JUL-2010 08:07
Client ID:
Sample Info: GAS .25
Column phase: RTX 502-2 FID

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

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



MH
7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100728-2.b/0728a005.d
Data file 2: /chem3/pid3.i/20100728-1.b/0728a005.d
Method: /chem3/pid3.i/20100728-1.b/PIDB.m
Instrument: pid3.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 29-JUN-2010

ARI ID: GAS 1
Client ID:
Injection Date: 28-JUL-2010 08:31
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.437	0.029	7240	85071	100.6	TFT(Surr)
14.910	0.022	4266	35061	99.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	761867	0.920 M
8015B 2MP-TMB (4.92 to 15.58)	1664107	1564234	0.940 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	1050254	0.928 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	811111	0.920 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.436	0.029	21131	96.1	TFT(Surr)
14.908	0.022	43950	96.4	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.713	0.026	2868	2.17	Benzene
10.303	0.032	37994	28.79	Toluene
12.838	0.033	10898	8.77	Ethylbenzene
12.978	0.036	42543	31.59	M/P-Xylene
13.754	0.029	17526	13.64	O-Xylene
5.302	0.015	35267	99.12	MTBE

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

Data File: /chem3/pid3.i/20100728-2.b/0728a005.d

Date : 28-JUL-2010 08:31

Client ID:

Sample Info: GAS 1

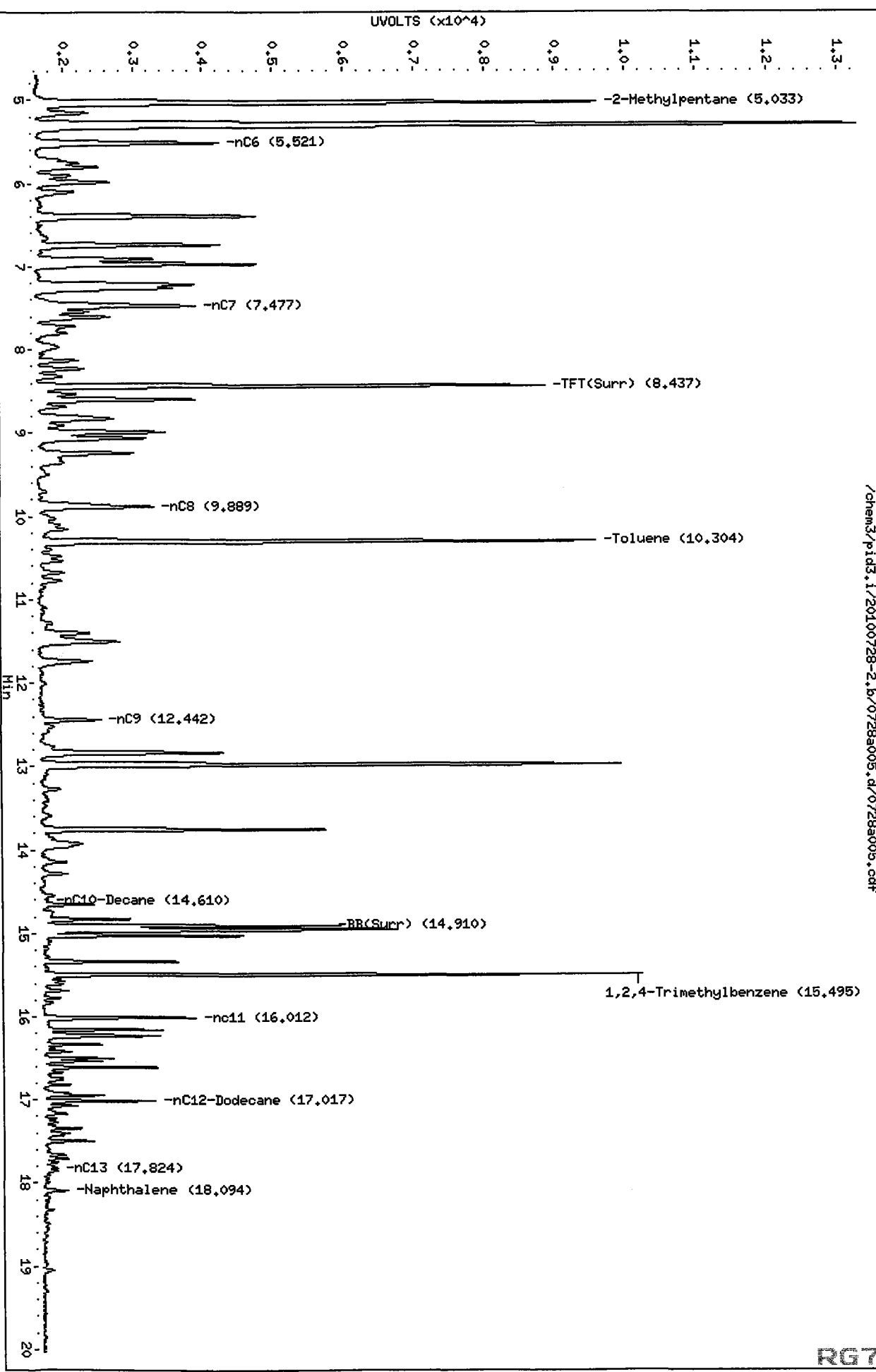
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HH

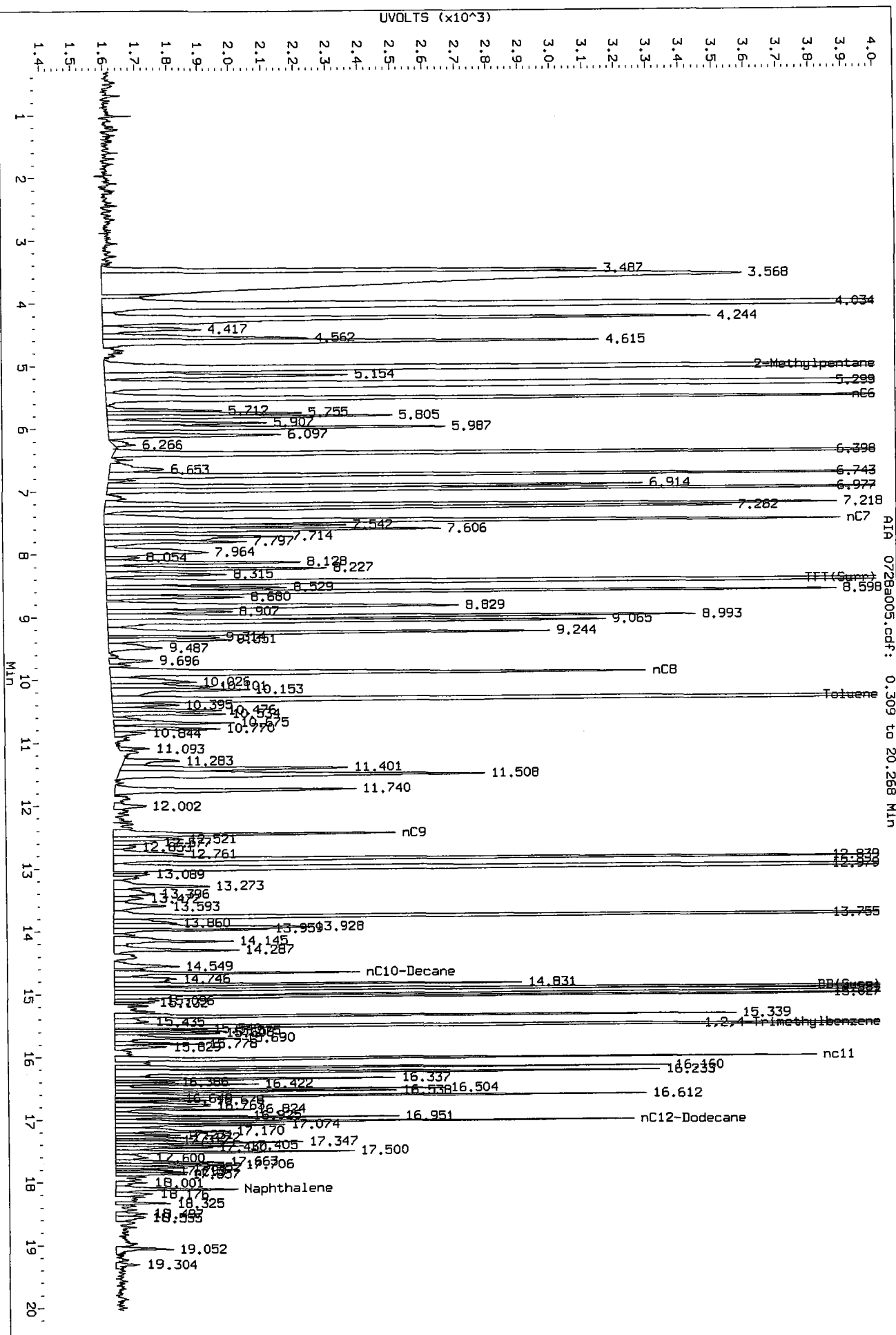
Column diameter: 0.18

/chem3/pid3.i/20100728-2.b/0728a005.d/0728a005.cdf

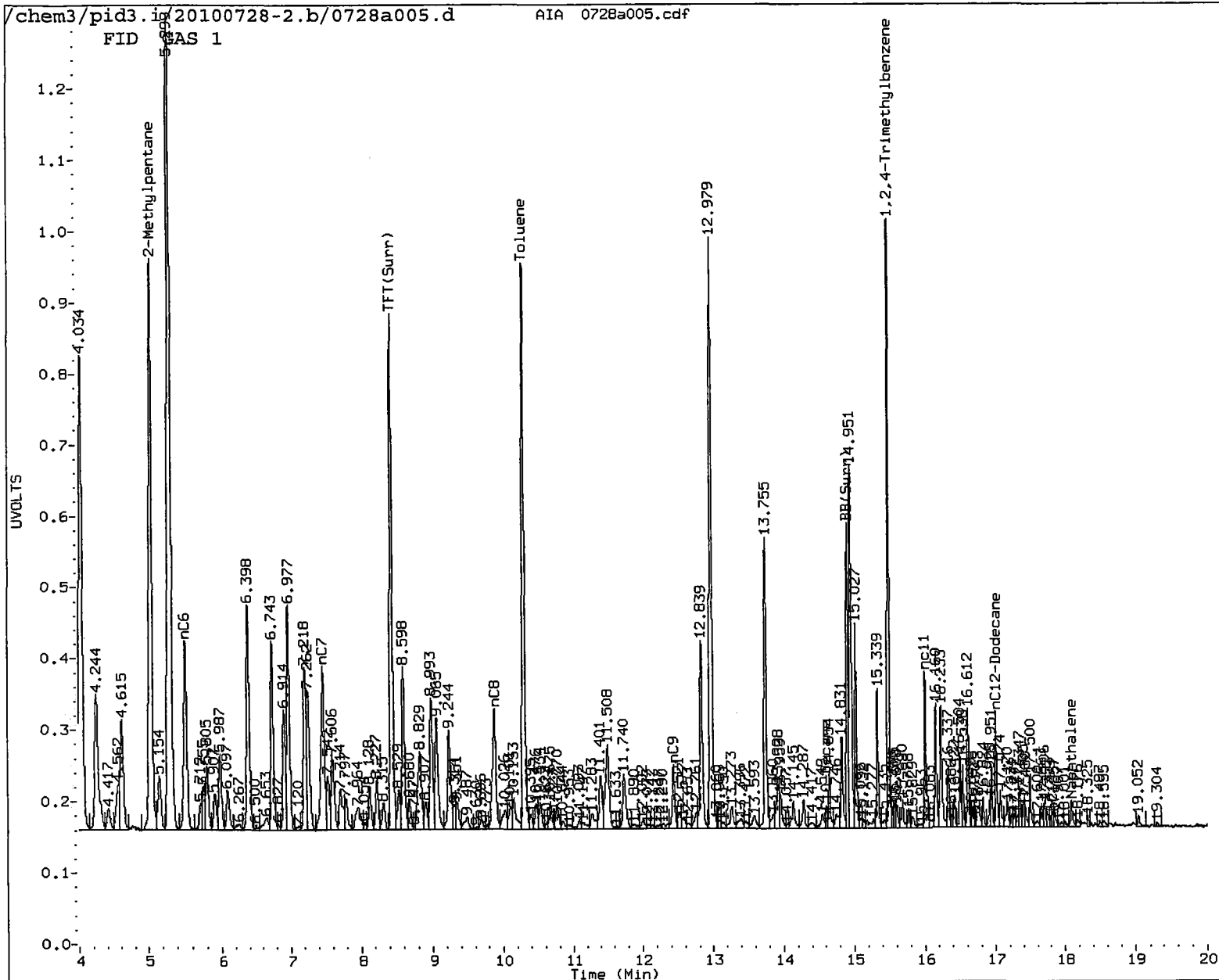


MH
7/21/10

Data File: /chem3/pid3.1/20100728-2.b/0728a005.d/0728a005.cdf
Injection Date: 28-JUL-2010 08:31
Instrument: pid3.1
Client Sample ID:



AIR 0728a005.cdf: 0.309 to 20.268 Min



MANUAL INTEGRATION

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

Analyst: MH

Date: 7/29/10

MH
7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100728-2.b/0728a006.d ARI ID: GAS 2.5
Data file 2: /chem3/pid3.i/20100728-1.b/0728a006.d Client ID:
Method: /chem3/pid3.i/20100728-1.b/PIDB.m Injection Date: 28-JUL-2010 08:56
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.439	0.031	7507	89299	104.3	TFT(Surr)
14.911	0.023	4475	36770	103.9	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	1957108	2.364 M
8015B 2MP-TMB (4.92 to 15.58)	1664107	3879004	2.331 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	2606200	2.303 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	2072468	2.350 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.438	0.031	21902	99.6	TFT(Surr)
14.909	0.023	45851	100.6	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.715	0.028	7095	5.37	Benzene
10.306	0.034	94086	71.29	Toluene
12.840	0.036	27296	21.97	Ethylbenzene
12.981	0.039	105425	78.29	M/P-Xylene
13.756	0.032	43640	33.97	O-Xylene
5.306	0.019	82935	233.09	MTBE

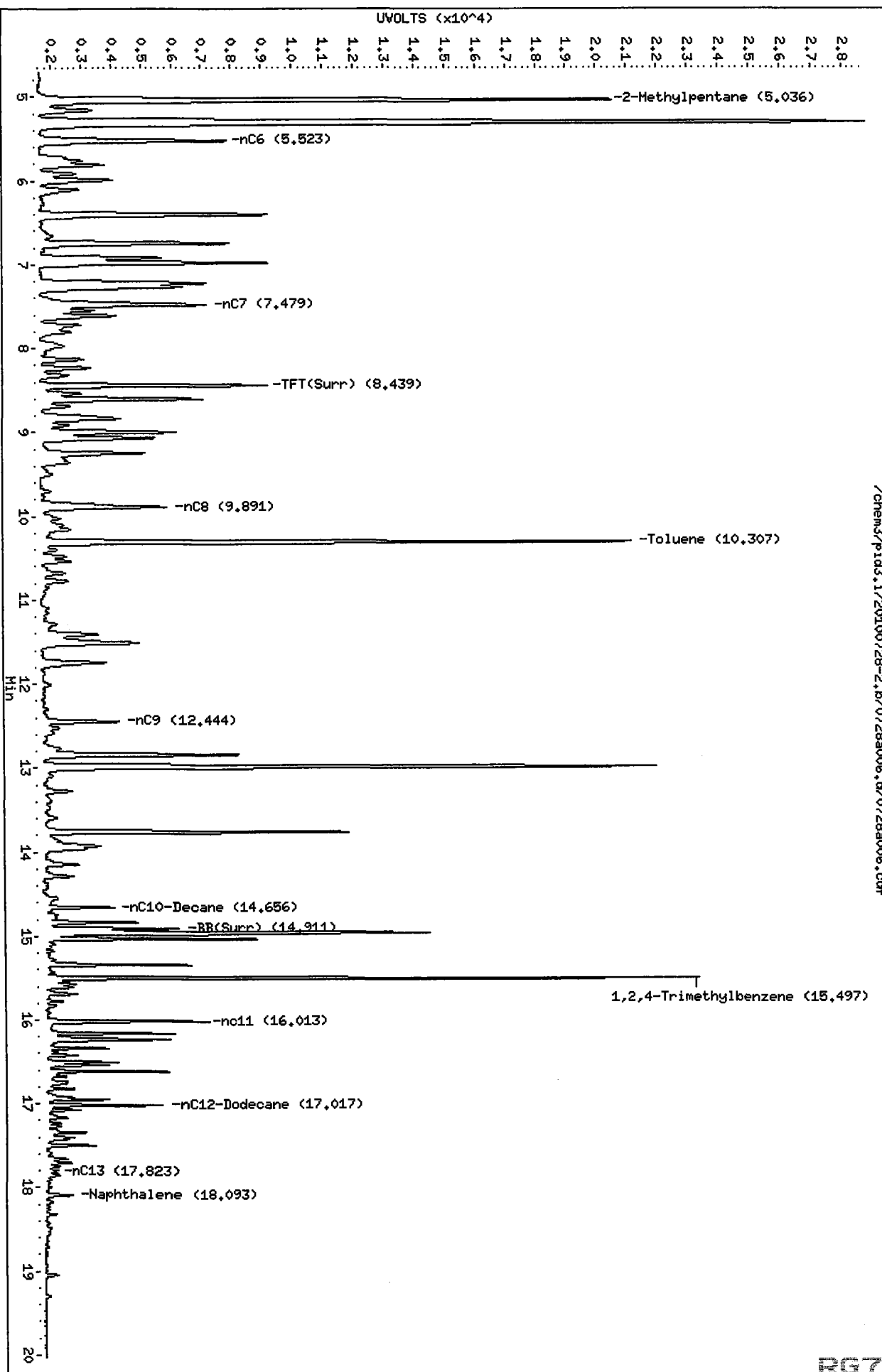
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100728-2.b/0728a006.d
Date: 28-JUL-2010 08:56
Client ID:
Sample Info: GAS 2.5

Column phase: RTX 502-2 FID

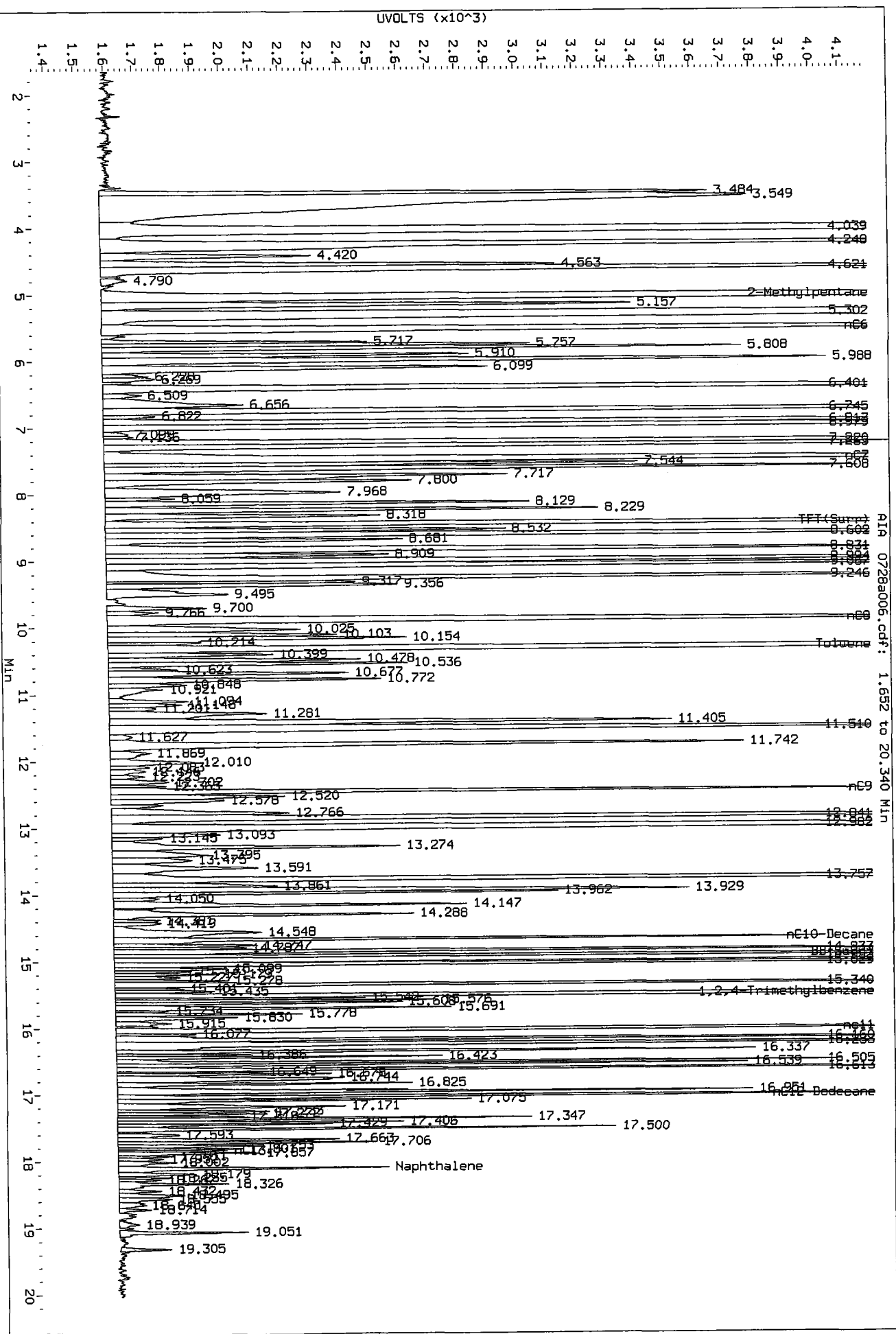
Instrument: pid3.i
Operator: MH
Column diameter: 0.18

/chem3/pid3.i/20100728-2.b/0728a006.d/0728a006.cdf

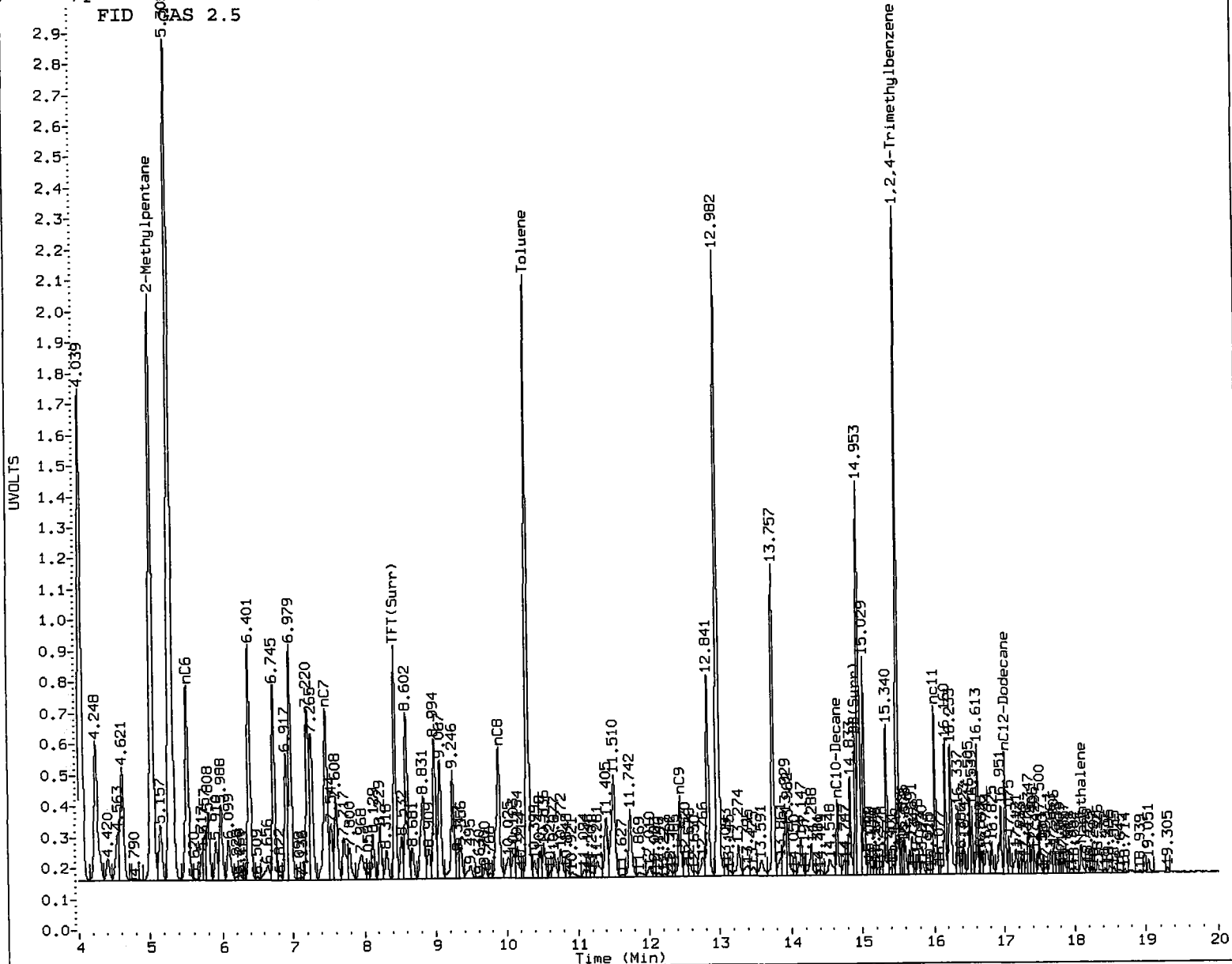


HH
7/29/10

Data File: /chem3/pid3.1/20100728-2.b/0728a006.d/0728a006.cdf
Injection Date: 28-JUL-2010 08:56
Instrument: pid3.1
Client Sample ID:



FID GAS 2.5



MANUAL INTEGRATION

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

Analyst: MH

Date: 7/29/10

MH
7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100728-2.b/0728a007.d ARI ID: GAS 5
Data file 2: /chem3/pid3.i/20100728-1.b/0728a007.d Client ID:
Method: /chem3/pid3.i/20100728-1.b/PIDB.m Injection Date: 28-JUL-2010 09:20
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.440	0.031	7878	94697	109.5	TFT(Surr)
14.912	0.024	4741	41421	110.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	4003725	4.837
8015B 2MP-TMB (4.92 to 15.58)	1664107	7856270	4.721 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	5316980	4.698 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	4221581	4.786

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.438	0.031	23349	106.2	TFT(Surr)
14.910	0.023	47815	104.9	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.716	0.029	14610	11.05	Benzene
10.308	0.037	191522	145.11	Toluene
12.842	0.038	56084	45.13	Ethylbenzene
12.985	0.043	209817	155.81	M/P-Xylene
13.758	0.033	88195	68.64	O-Xylene
5.308	0.021	162558	456.88	MTBE

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

Data File: /chem3/pid3.i/20100728-2.b/0728a007.d

Date : 28-JUL-2010 09:20

Client ID:

Sample Info: GAS 5

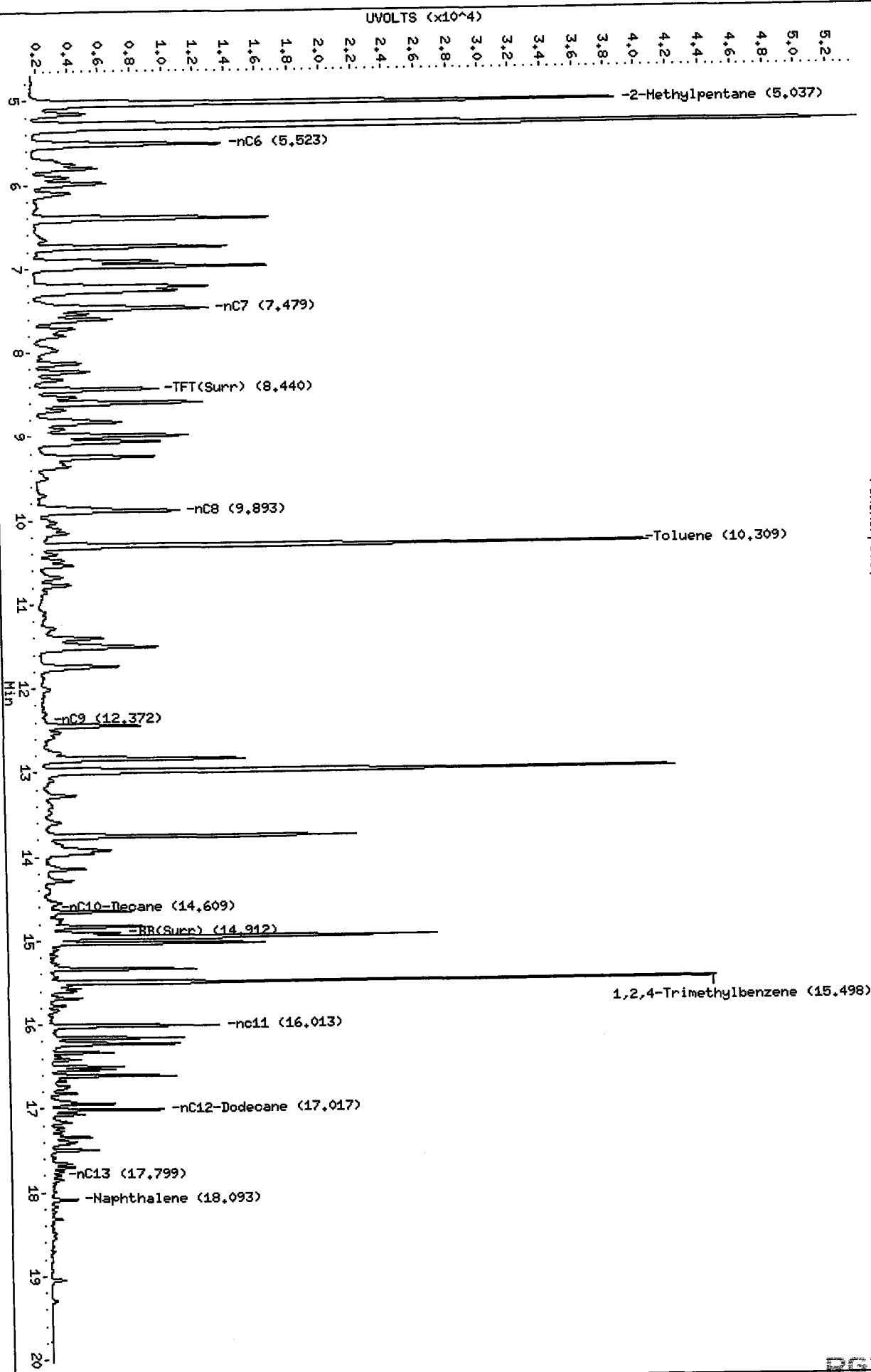
Column phaset: RTX 502-2 FID

Instrument: pid3.i

Operator: MH

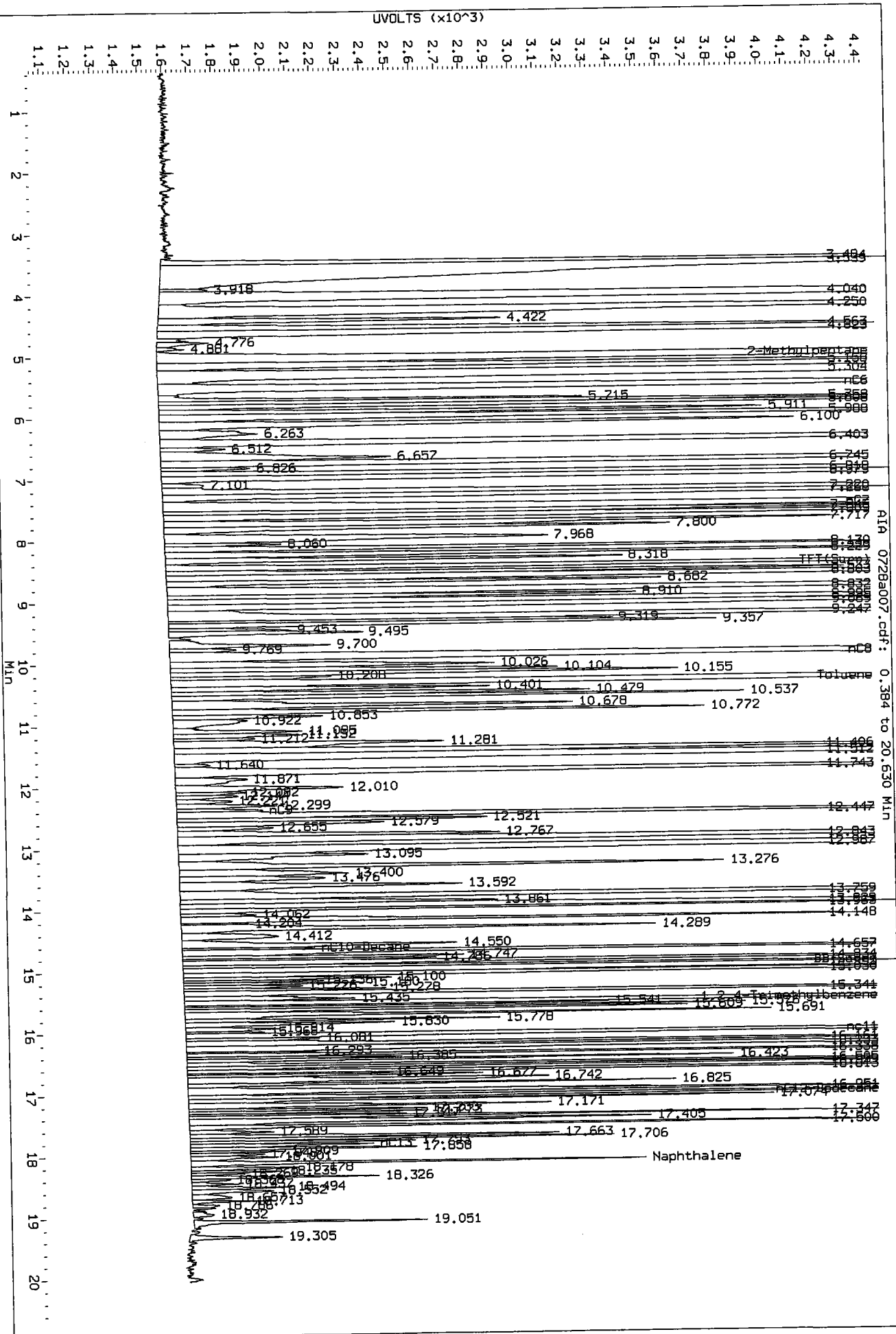
Column diameter: 0.18

/chem3/pid3.i/20100728-2.b/0728a007.d/0728a007.cdf



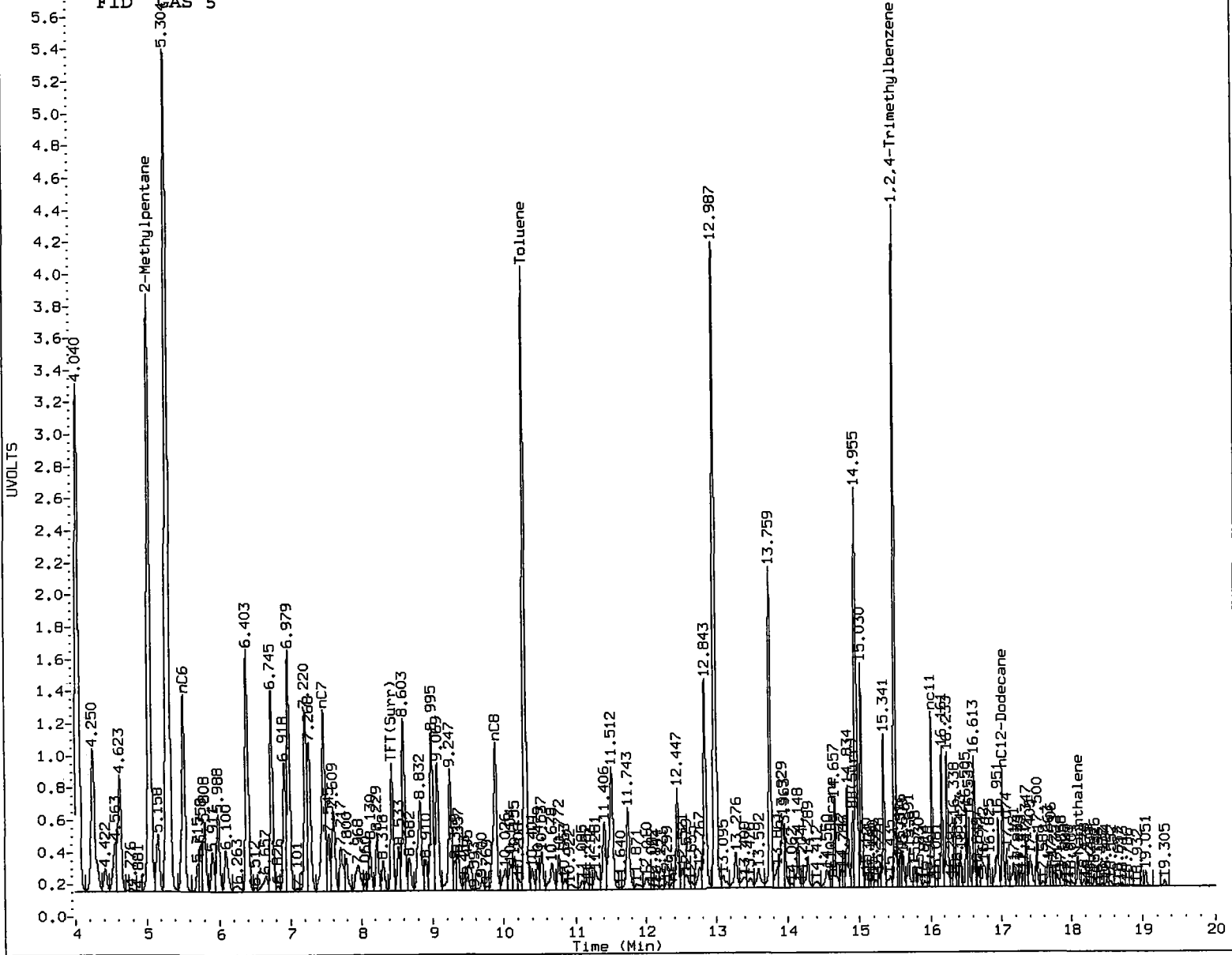
MH
7/29/10

Data File: /chem3/pid3.1/20100728-2.b/0728a007.d/0728a007.cdf
Injection Date: 28-JUL-2010 09:20
Instrument: pid3.1
Client Sample ID:



AIA 0728a007.cdf: 0.384 to 20.630 Min

FID GAS 5



MANUAL INTEGRATION

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

Analyst: MT Date: 7/29/10

MT
7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100728-2.b/0728a008.d
Data file 2: /chem3/pid3.i/20100728-1.b/0728a008.d
Method: /chem3/pid3.i/20100728-1.b/PIDB.m
Instrument: pid3.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 29-JUN-2010

ARI ID: GAS 20
Client ID:
Injection Date: 28-JUL-2010 09:45
Matrix: WATER
Dilution Factor: 1.000

=====
FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	----	----	-----
8.440	0.032	10794	142846	150.0	TFT(Surr)
14.914	0.026	6397	57315	148.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (10.17 to 17.11)	827807	16788832	20.281
8015B 2MP-TMB (4.92 to 15.58)	1664107	34760005	20.888
AK101 nC6-nC10 (5.41 to 14.53)	1131784	24502732	21.650
NWTPHG Tol-Nap (10.17 to 18.18)	882029	17514258	19.857

M Indicates manual integration within range

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

=====
PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
8.439	0.032	28146	128.0	TFT(Surr)
14.834	-0.052	109465	240.1	BB(Surr)

SW8021 (PID)

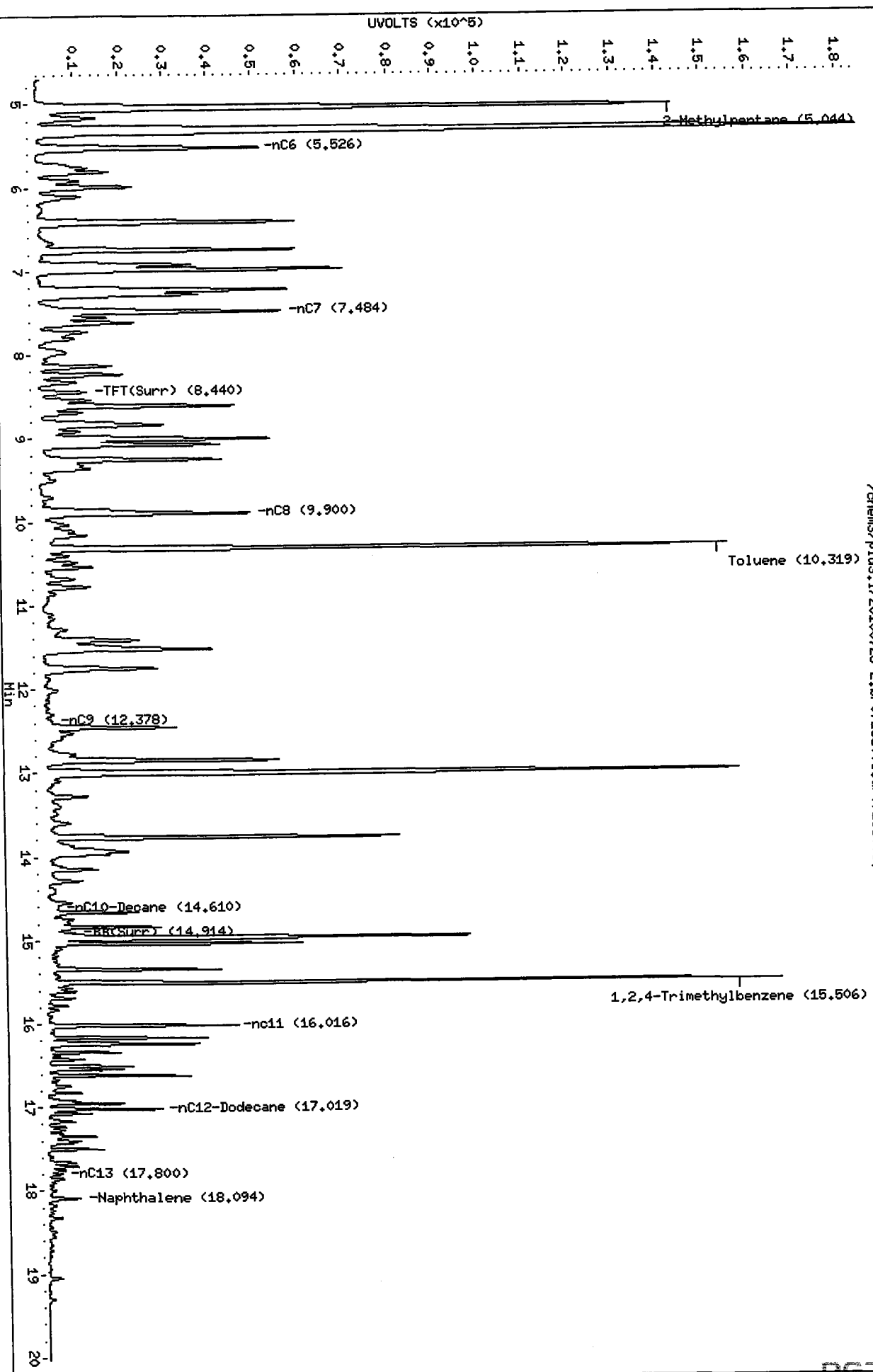
RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.719	0.032	57953	43.83	Benzene
10.317	0.046	742279	562.41	Toluene
12.772	-0.032	18288	14.72	Ethylbenzene
13.001	0.059	811732	602.78	M/P-Xylene
13.765	0.041	355553	276.74	O-Xylene
5.321	0.033	530538	1491.10	MTBE

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

Data File: /chem3/pid3.i/20100728-2.b/0728a008.d
Date: 28-JUL-2010 09:45
Client ID:
Sample Info: GAS 20

Column phase: RTX 502-2 FID

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



/chem3/pid3.i/20100728-2.b/0728a008.d/0728a008.cdf

Mt
7/29/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100728-2.b/0728a010.d ARI ID: GAS ICV
Data file 2: /chem3/pid3.i/20100728-1.b/0728a010.d Client ID:
Method: /chem3/pid3.i/20100728-1.b/PIDB.m Injection Date: 28-JUL-2010 10:34
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.440	0.032	7179	85915	99.7	TFT(Surr)
14.911	0.023	4354	33856	101.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	2492293	3.011 M
8015B 2MP-TMB (4.92 to 15.58)	1664107	3736060	2.245 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	2858584	2.526 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	2556570	2.899 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.439	0.032	21749	98.9	TFT(Surr)
14.909	0.023	46674	102.4	BB(Surr)

SW8021 (PID)

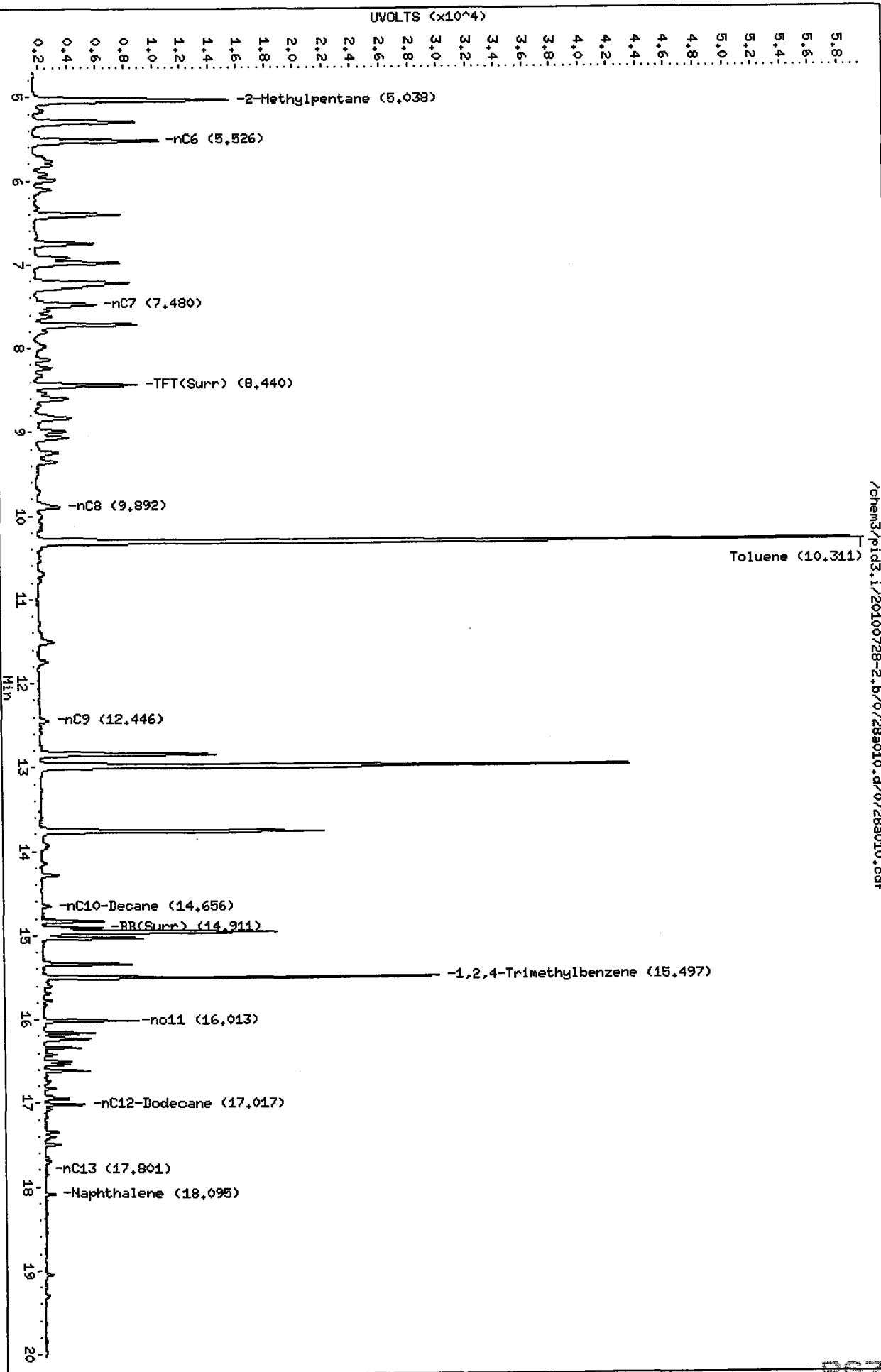
RT	Shift	Response	Amount	Compound
7.715	0.029	38928	29.44	Benzene
10.309	0.037	288200	218.36	Toluene
12.842	0.037	55963	45.04	Ethylbenzene
12.983	0.041	219824	163.24	M/P-Xylene
13.757	0.033	89384	69.57	O-Xylene
5.294	0.007	2620	7.36	MTBE

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

Data File: /chem3/pid3.i/20100728-2.b/0728a010.d
Date: 28-JUL-2010 10:34
Client ID:
Sample Info: GAS ICV

Column phase: RTX 502-2 FID

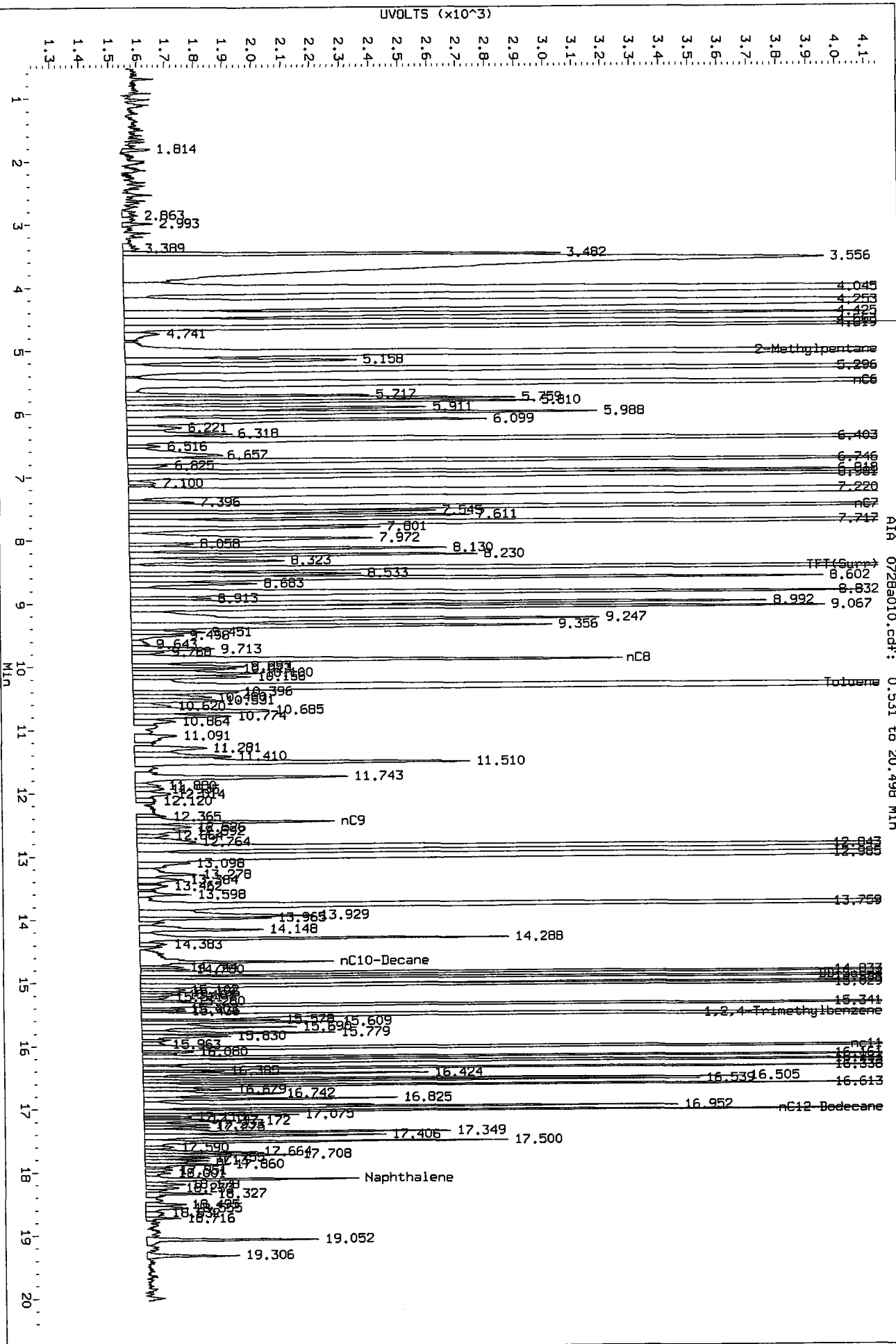
Instrument: pid3.i
Operator: MH
Column diameter: 0.18



/chem3/pid3.i/20100728-2.b/0728a010.d/0728a010.cdf

MA
7/27/10

Data File: /chem3/pid3.1/20100728-2.b/0728a010.d/0728a010.cdf
Injection Date: 28-JUL-2010 10:34
Instrument: pid3.1
Client Sample ID:

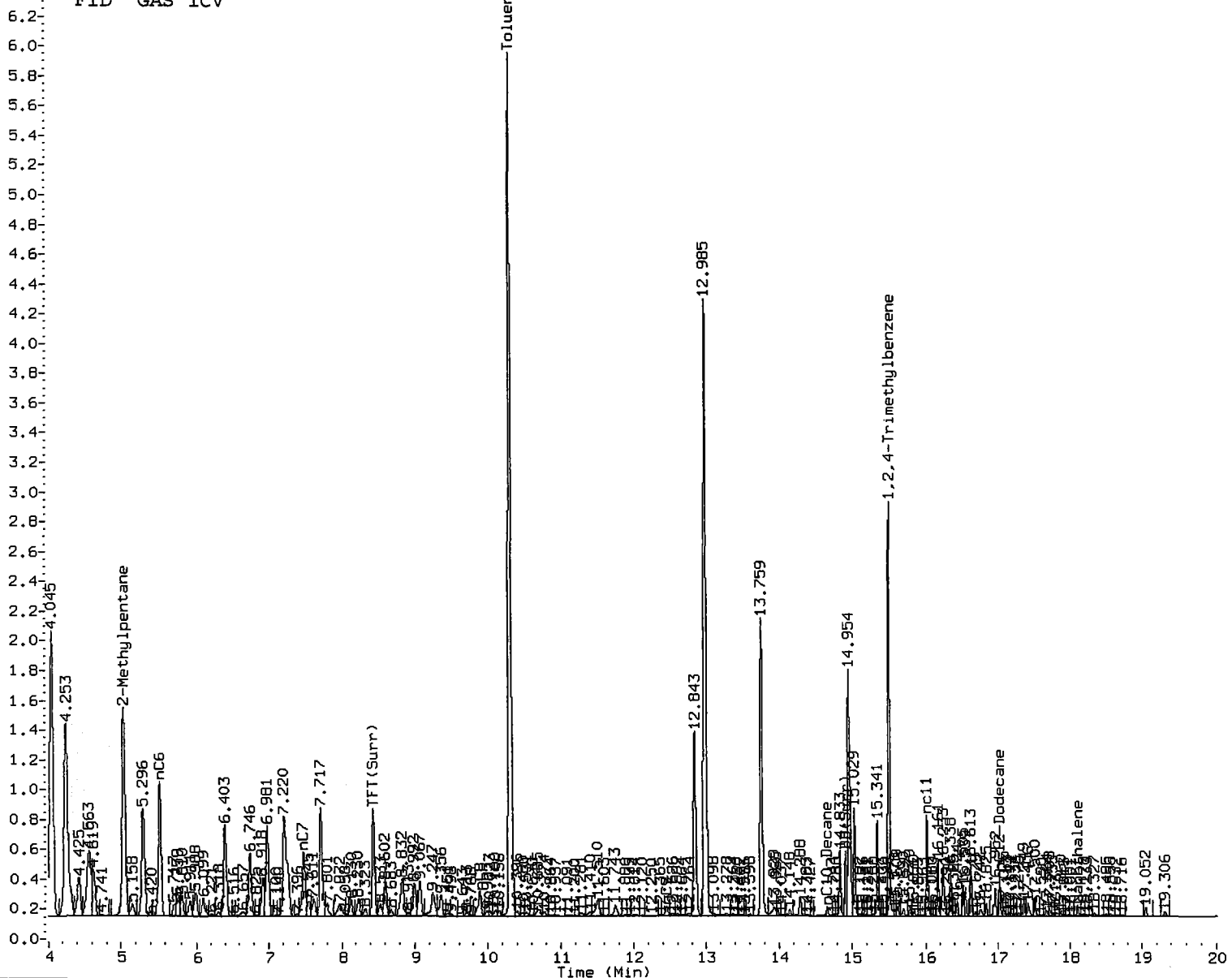


AIA 0728a010.cdf: 0.531 to 20.498 MIN

FID GAS ICV

UVOLTS

Toluene



MANUAL INTEGRATION

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

Analyst: MH

Date: 7/29/10

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid3.i/20100728-2.b/FID.m
Batch File: /chem3/pid3.i/20100728-2.b
Inst ID: pid3.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 2-Methylpentane	5.033	5.033	5.036	5.037	5.044	5.028	5.022	4.952-5.092	5.035	0.005
18 WAGAS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.027-1.167	+++++	+++++
19 8015B	+++++	+++++	+++++	+++++	+++++	+++++	0.833	0.763-0.903	+++++	+++++
20 AK101	+++++	+++++	+++++	+++++	+++++	+++++	0.989	0.919-1.059	+++++	+++++
21 NWGAS	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.930-1.070	+++++	+++++
2 nC6	5.522	5.521	5.523	5.523	5.526	5.520	5.507	5.437-5.577	5.523	0.002
3 nC7	7.476	7.477	7.479	7.479	7.484	7.469	7.454	7.384-7.524	7.477	0.005
4 TFT(Surr)	8.435	8.437	8.439	8.440	8.440	8.425	8.408	8.338-8.478	8.436	0.006
5 nC8	9.887	9.889	9.891	9.893	9.900	9.874	9.858	9.788-9.928	9.889	0.009
6 Toluene	10.301	10.304	10.307	10.309	10.319	10.292	10.273	10.203-10.343	10.306	0.009
7 nC9	12.438	12.442	12.444	12.447	12.456	12.430	12.409	12.339-12.479	12.443	0.009
8 nC10-Decane	14.651	14.610	14.656	14.609	14.663	14.644	14.632	14.562-14.702	14.639	0.024
9 BB(Surr)	14.907	14.910	14.911	14.912	14.914	14.901	14.888	14.818-14.958	14.909	0.005
10 1,2,4-Trimethylbenzene	15.493	15.495	15.497	15.498	15.506	15.488	15.477	15.407-15.547	15.496	0.006
11 nC11	16.011	16.012	16.013	16.013	16.016	16.007	16.020	15.950-16.090	16.012	0.003
12 nC12-Dodecane	17.017	17.017	17.017	17.017	17.019	17.014	17.008	16.938-17.078	17.017	0.002
13 nC13	17.823	17.824	17.823	17.799	17.860	17.823	17.814	17.744-17.884	17.825	0.019

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

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid3.i/20100728-2.b/FID.m
Batch File: /chem3/pid3.i/20100728-2.b
Inst ID: pid3.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
14 Naphthalene	18.093	18.094	18.093	18.093	18.094	18.089	18.082	18.012-18.152	18.093	0.002



VOA Analyst Notes / Corrective Action Log

ARI Project ID: BETX Curve Client ID: _____

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

Parameter(s): BETX

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

Purge Volume (mL) 5 Curve Date: 6/29/10 Analysis Start Date: 6/29/10

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

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

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

BETX ICW Targeted 25

Additional Details on Reverse: Yes / No

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

Reviewer: [Signature] Date: 7-10-10

Analytical Resources Inc.: Organics Instrument Log

Date: 6/29/10 ^{MH 7/1/10} PID-3 HP 5890 Series II - Serial No.: 2728A-13336
 Analysis: NWTPH6/BETX Analyst: MH
 GC Program: BETX Column No: 837213 Column Type: RTX-502-Z

Instrument Tune (.U or .CT.): _____ EM Voltage: _____
 Calibration File: _____ Curve Date: 2/2/10 6:5
6/29/10 BETX

IS/SS	Ical/Ccal	LCS/ICV
<u>VW632-2</u>	<u>VW607-1</u>	<u>VW629-4</u>
_____	<u>VW630-4</u>	_____
_____	<u>VW629-4</u>	_____
_____	_____	_____
_____	_____	_____

Time	Filename	LabID	ClientID	Vial#	pH	DF			
1	0548	0629a001.d	RINSE			1	23	1611	0629a023.d RB54H
2	0613	0629a002.d	RT+BCAL 1			1			02-1
3	0637	0629a003.d	GCAL 1			1	24	1636	0629a024.d RINSE
4	0735	0629a004.d	RINSE			1	25	1700	0629a025.d BCAL 3
5	0759	0629a005.d	BETX .25			1	26	1725	0629a026.d GCAL 2
6	0824	0629a006.d	BETX .5			1			
7	0848	0629a007.d	BETX 5			1			
8	0912	0629a008.d	BETX 25			1			
9	0937	0629a009.d	BETX 50			1			
10	1001	0629a010.d	BETX 100			1			
11	1026	0629a011.d	BETX 200			1			
12	1050	0629a012.d	BETX ICV			1			
13	1145	0629a013.d	GCAL 2			1			
14	1210	0629a014.d	LCS0629			1			
15	1234	0629a015.d	LCS0629			1			
16	1259	0629a016.d	MB0629			1			
17	1344	0629a017.d	RC18B	Trip Blank		2			
18	1408	0629a018.d	RC18A	Sample 1		2			
19	1433	0629a019.d	RB54D	92-8S		8			
20	1458	0629a020.d	RB54E	92-9S		4			
21	1522	0629a021.d	RB54F	92-10S		4			
22	1547	0629a022.d	RB54G	51-2		3			

[Large handwritten scribble]

MH
7/1/10

Maintenance / Comments

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

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-JUN-2010 07:59
 End Cal Date : 29-JUN-2010 10:26
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem3/pid3.i/20100629-1.b/PIDB.m
 Cal Date : 29-Jun-2010 11:12 monicah
 Curve Type : Average

Calibration File Names:

- Level 1: /chem3/pid3.i/20100629-1.b/0629a005.d/0629a005.cdf
- Level 2: /chem3/pid3.i/20100629-1.b/0629a006.d/0629a006.cdf
- Level 3: /chem3/pid3.i/20100629-1.b/0629a007.d
- Level 4: /chem3/pid3.i/20100629-1.b/0629a008.d
- Level 5: /chem3/pid3.i/20100629-1.b/0629a009.d
- Level 6: /chem3/pid3.i/20100629-1.b/0629a010.d
- Level 7: /chem3/pid3.i/20100629-1.b/0629a011.d

Compound	0.25000	0.50000	5.000	25.000	50.000	100.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	200.000							
	Level 7							
1 MTBE	464 343	288	367	346	348	334	356	15.046
2 Benzene	1564 1254	1462	1257	1240	1256	1221	1322	10.156
4 Toluene	1608 1294	1252	1288	1275	1275	1247	1320	9.717
15 Chlorobenzene	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
5 Ethylbenzene	1404 1183	1420	1164	1185	1190	1152	1243	9.380
6 M/P-Xylene	1614 1268	1381	1314	1300	1302	1247	1347	9.293

Report Date : 29-Jun-2010 11:12

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-JUN-2010 07:59
 End Cal Date : 29-JUN-2010 10:26
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem3/pid3.i/20100629-1.b/PIDB.m
 Cal Date : 29-Jun-2010 11:12 monicah
 Curve Type : Average

Compound	0.25000	0.50000	5.000	25.000	50.000	100.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	200.000							
	Level 7							
7 O-Xylene	1352 1307	1232	1295	1269	1282	1256	1285	3.016
13 1,3,5 Trimethylbenzene	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
14 1,2,4 Trimethyl benzene	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
16 1,3 Dichlorobenzene	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
17 1,4 Dichlorobenzene	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
18 1,2 Dichlorobenzene	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
\$ 3 TFT(Surr)	243 219	220	213	214	217	212	220	4.943
\$ 8 BB(Surr)	496 463	451	434	440	456	450	456	4.411

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-JUN-2010 07:59
 End Cal Date : 29-JUN-2010 10:26
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem3/pid3.i/20100629-2.b/FID.m
 Cal Date : 29-Jun-2010 11:13 monicah
 Curve Type : Average

Compound	0.000e+00	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)	78.13636 70.30000	73.54545	71.97015	70.36000	70.48120	69.03933	71.97607	4.271
\$ 9 BB(Surr)	48.72727 42.23000	43.22727	42.49254	41.18000	42.06767	41.53933	43.06630	5.994

MH
7/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100629-2.b/0629a005.d
Data file 2: /chem3/pid3.i/20100629-1.b/0629a005.d
Method: /chem3/pid3.i/20100629-1.b/PIDB.m
Instrument: pid3.i
Gas Ical Date: 02-FEB-2010
BETX Ical Date: 29-JUN-2010

ARI ID: BETX .25
Client ID:
Injection Date: 29-JUN-2010 07:59
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.418	-0.021	1719	20323	23.9	TFT (Surr)
14.897	-0.015	1072	10075	24.9	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas Tol-C12 (10.21 to 17.13)	23668	0.034
8015B 2MP-TMB (4.93 to 15.54)	22061	0.016
AK101 nC6-nC10 (5.50 to 14.63)	15306	0.014
NWTPHG Tol-Nap (10.21 to 18.23)	24708	0.033

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.417	-0.021	5356	24.4	TFT (Surr)
14.893	-0.016	10910	23.9	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.694	-0.019	391	0.30	Benzene
10.287	-0.021	402	0.30N	Toluene
12.817	-0.030	351	0.28N	Ethylbenzene
12.955	-0.034	807	0.60	M/P-Xylene
13.737	-0.025	338	0.26N	O-Xylene
5.283	-0.017	116	0.33N	MTBE

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

Data File: /chem3/pid3.i/20100629-2.b/0629a005.d

Date: 29-JUN-2010 07:59

Client ID:

Sample Info: BETX .25

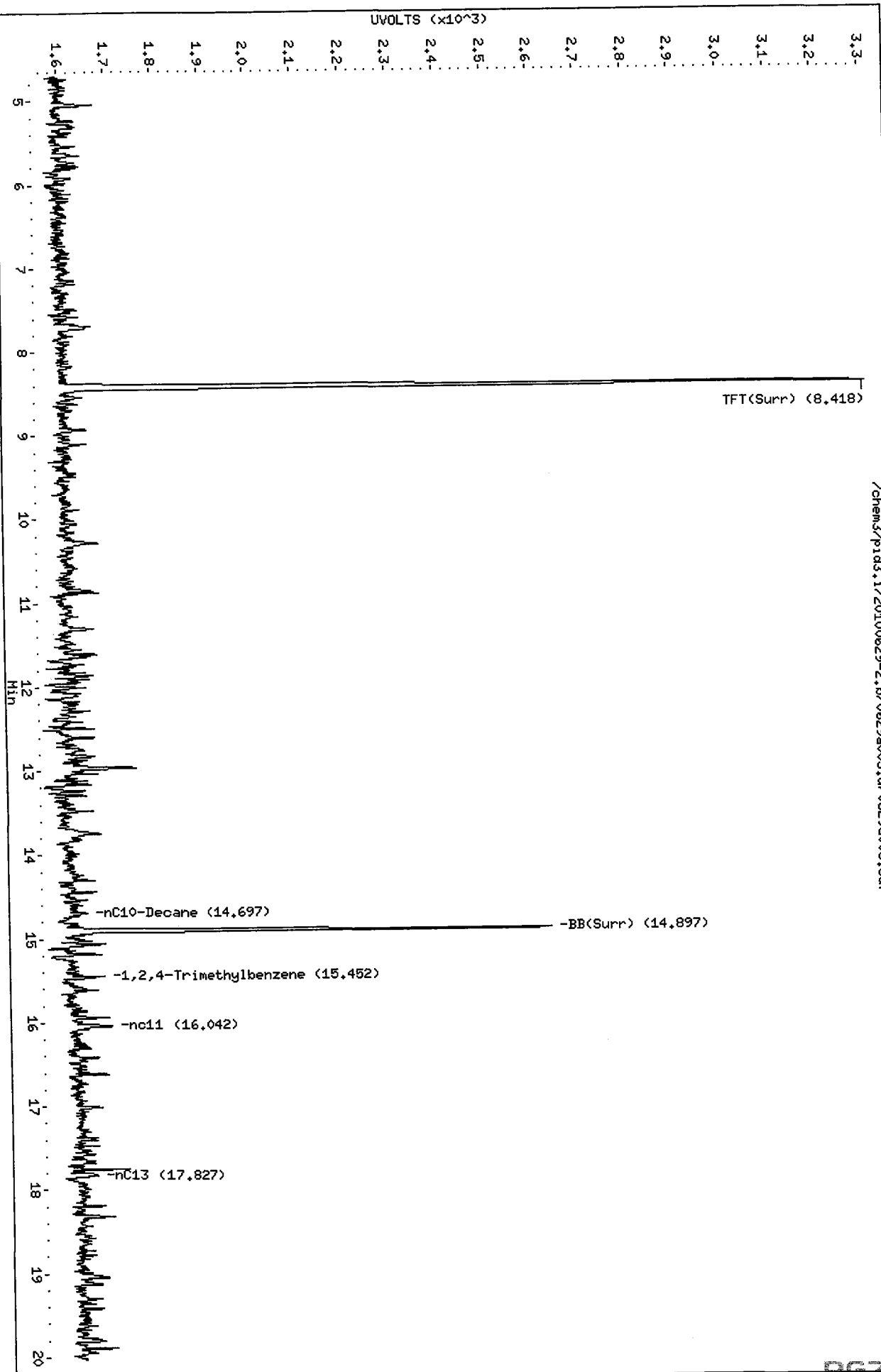
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

/chem3/pid3.i/20100629-2.b/0629a005.d/0629a005.cdf

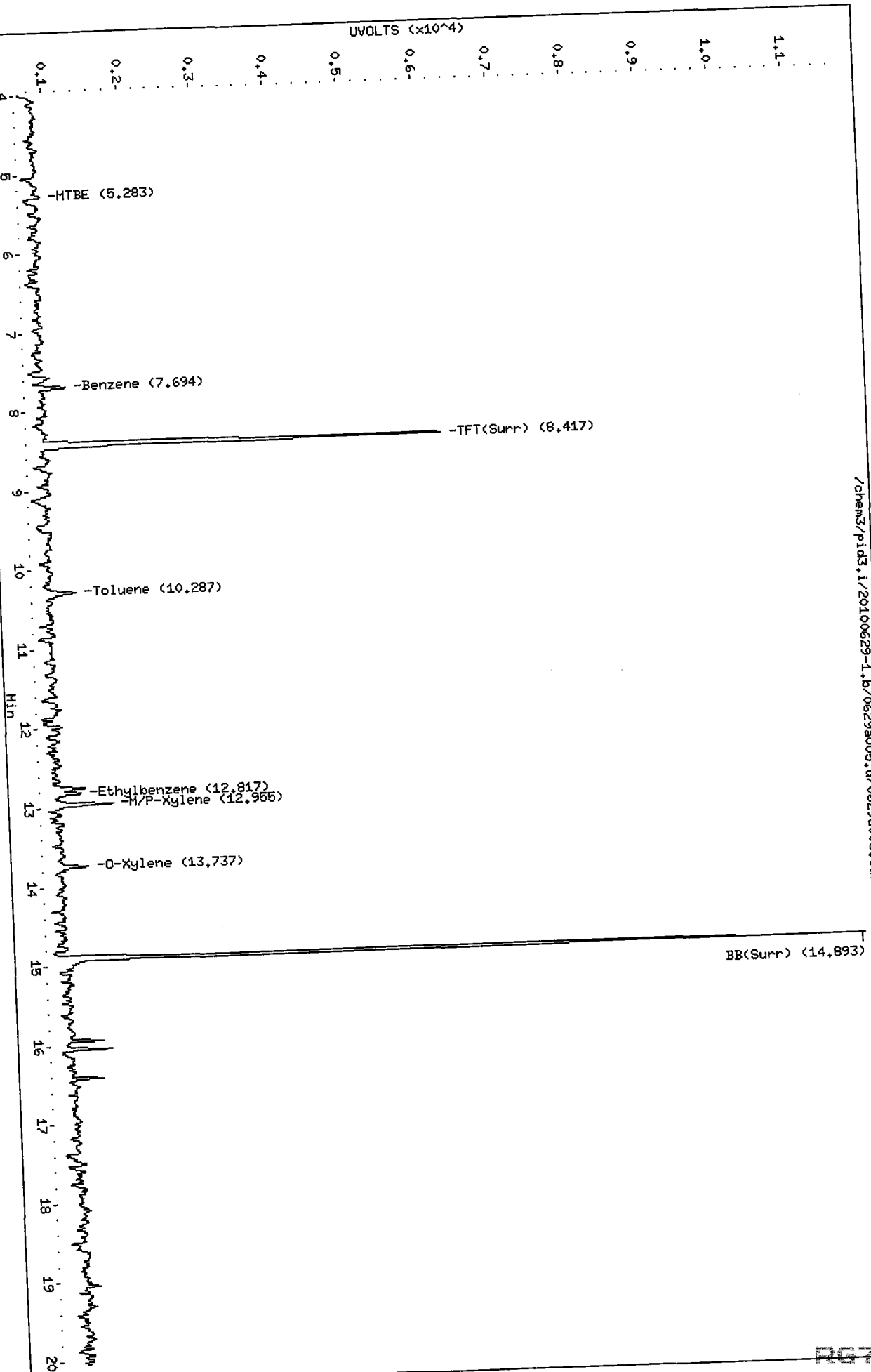


Data File: /chem3/pid3.i/20100629-1.b/0629a005.d
Date: 29-JUN-2010 07:59
Client ID:
Sample Info: BETX .25

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

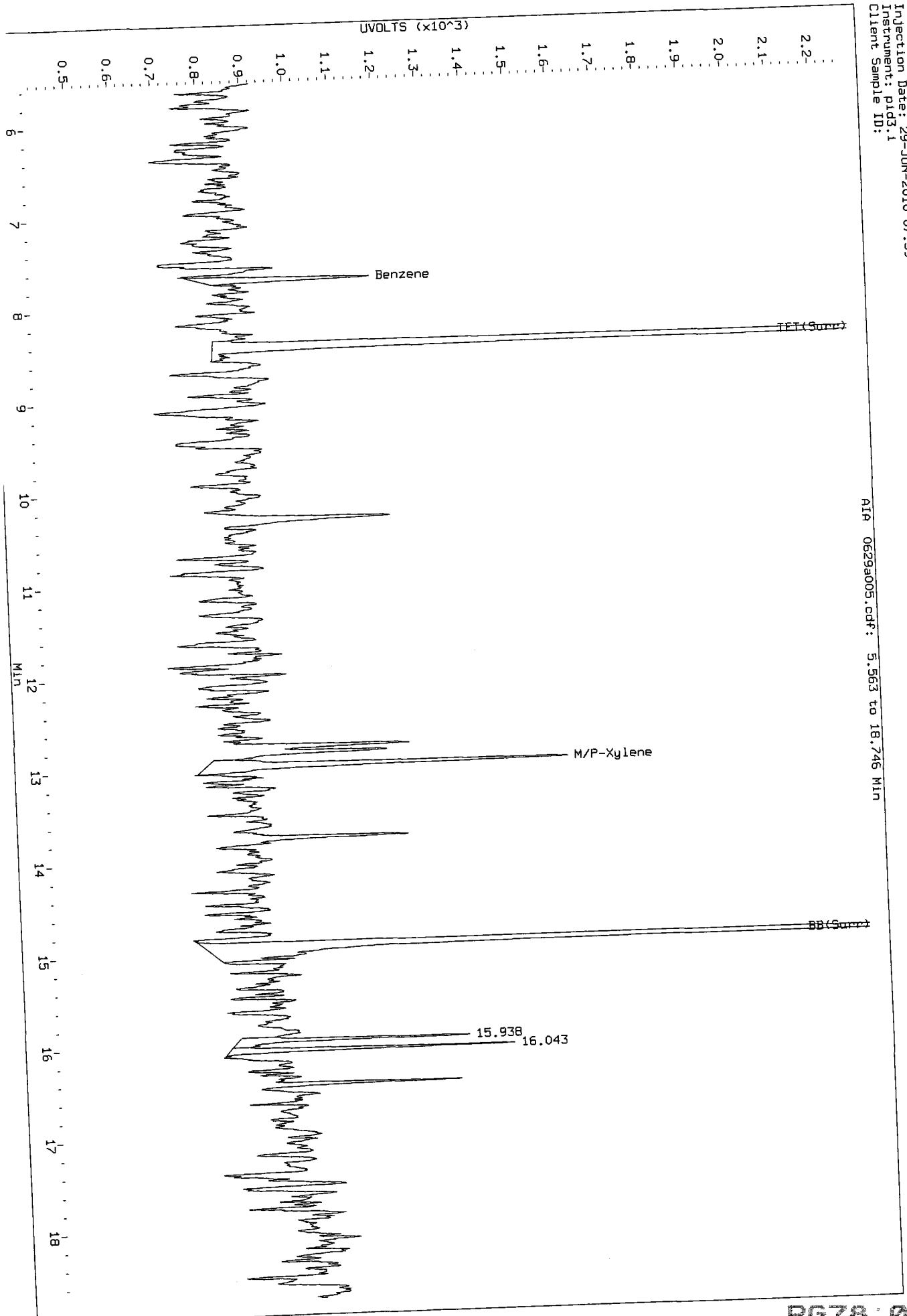
Column phase: RTX 502-2 PID

/chem3/pid3.i/20100629-1.b/0629a005.d/0629a005.cdf



MM
7/10/10

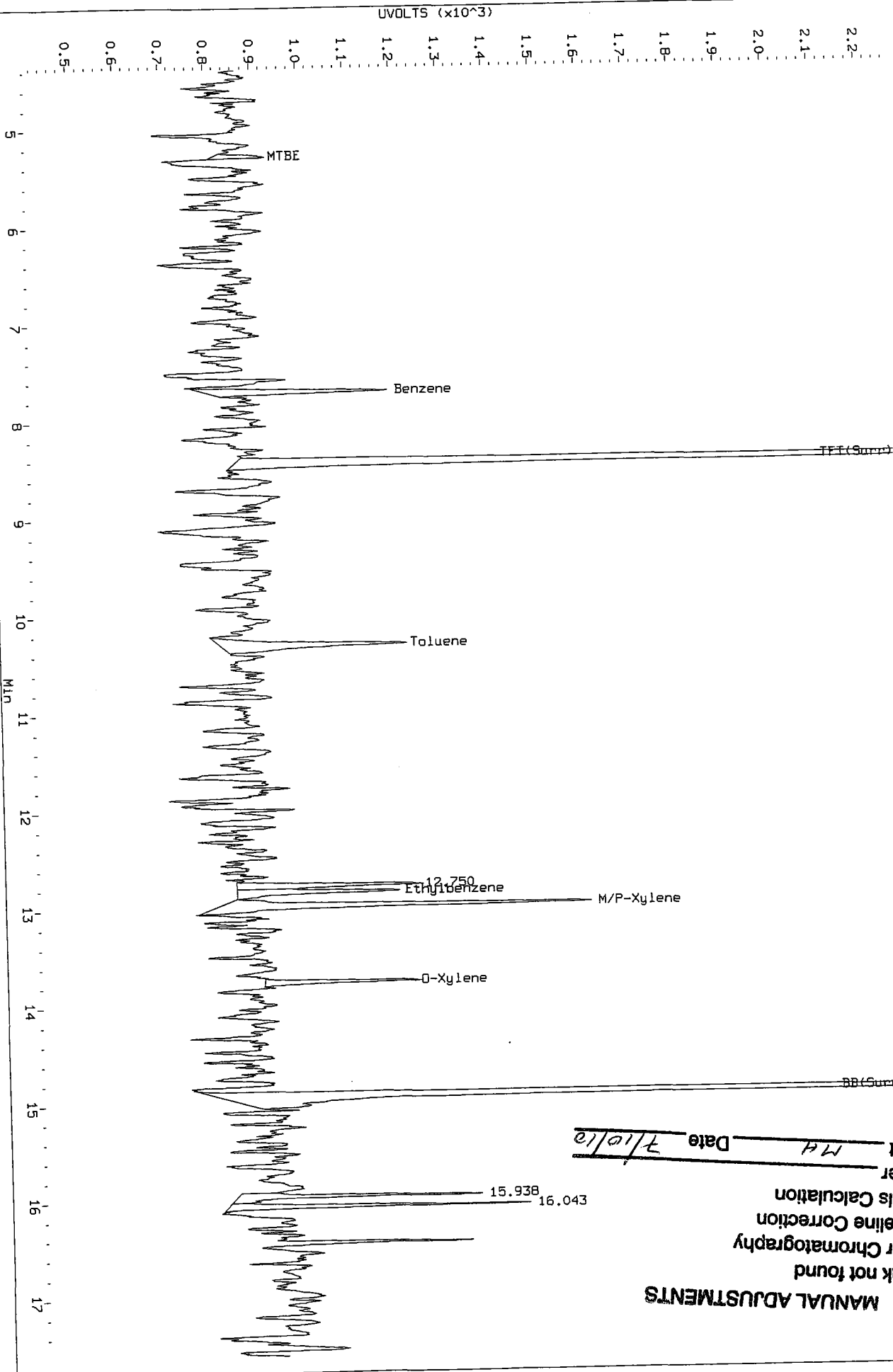
Data File: /chem3/pid3.1/20100629-1.b/0629a005.d/0629a005.cdf
Injection Date: 29-JUN-2010 07:59
Instrument: pid3.1
Client Sample ID:



AIR 0629a005.cdf: 5.563 to 18.746 MIN

Data File: /chem3/pid3_1/20100629-1.b/0629a005.d/0629a005.cdf
 Injection Date: 29-JUN-2010 07:59
 Instrument: pid3.1
 Client Sample ID:

RIR 0629a005.cdf: 4.391 to 17.575 Min



MANUAL ADJUSTMENTS

Peak not found
 Poor Chromatography
 Baseline Correction
 Totals Calculation
 Other
 Analyst MA Date 7/10/10

MH
7/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100629-2.b/0629a006.d ARI ID: BETX .5
Data file 2: /chem3/pid3.i/20100629-1.b/0629a006.d Client ID:
Method: /chem3/pid3.i/20100629-1.b/PIDB.m Injection Date: 29-JUN-2010 08:24
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 02-FEB-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.430	-0.008	3236	38151	45.0	TFT(Surr)
14.906	-0.006	1902	15702	44.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas Tol-C12 (10.21 to 17.13)	29425	0.042
8015B 2MP-TMB (4.93 to 15.54)	33980	0.025
AK101 nC6-nC10 (5.50 to 14.63)	33979	0.031
NWTPHG Tol-Nap (10.21 to 18.23)	34396	0.046

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.429	-0.008	9683	44.0	TFT(Surr)
14.904	-0.006	19865	43.6	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.706	-0.007	731	0.55	Benzene
10.297	-0.011	626	0.47N	Toluene
12.832	-0.015	710	0.57	Ethylbenzene
12.969	-0.020	1381	1.03	M/P-Xylene
13.750	-0.012	616	0.48N	O-Xylene
5.300	-0.001	144	0.40N	MTBE

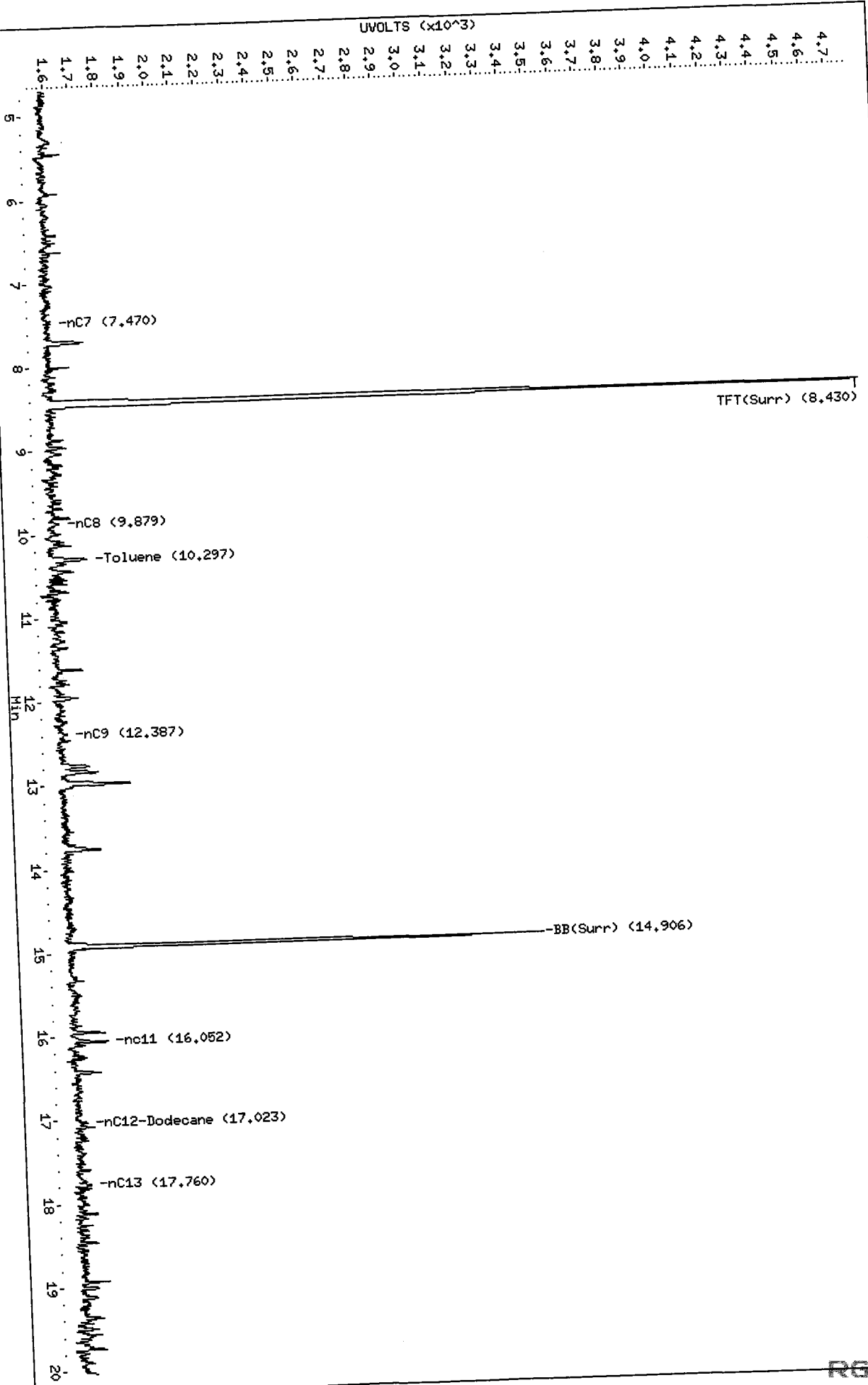
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100629-2.b/0629a006.d
Date: 29-JUN-2010 08:24
Client ID:
Sample Info: BETX .5

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

Column phase: RTX 502-2 FID

/chem3/pid3.i/20100629-2.b/0629a006.d/0629a006.cdf

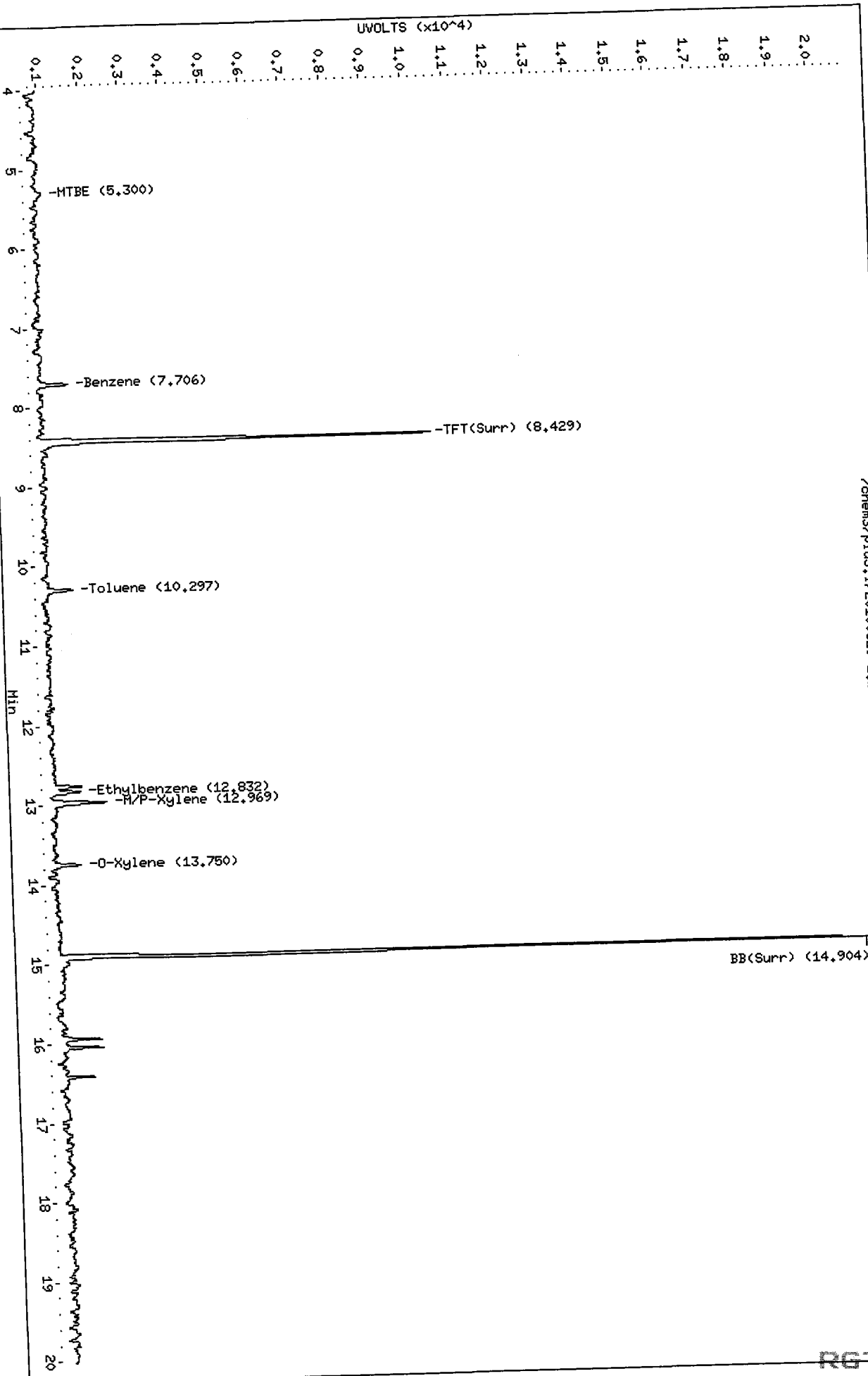


Data File: /chem3/pid3.i/20100629-1.b/0629a006.d
Date: 29-JUN-2010 08:24
Client ID:
Sample Info: BETX .5

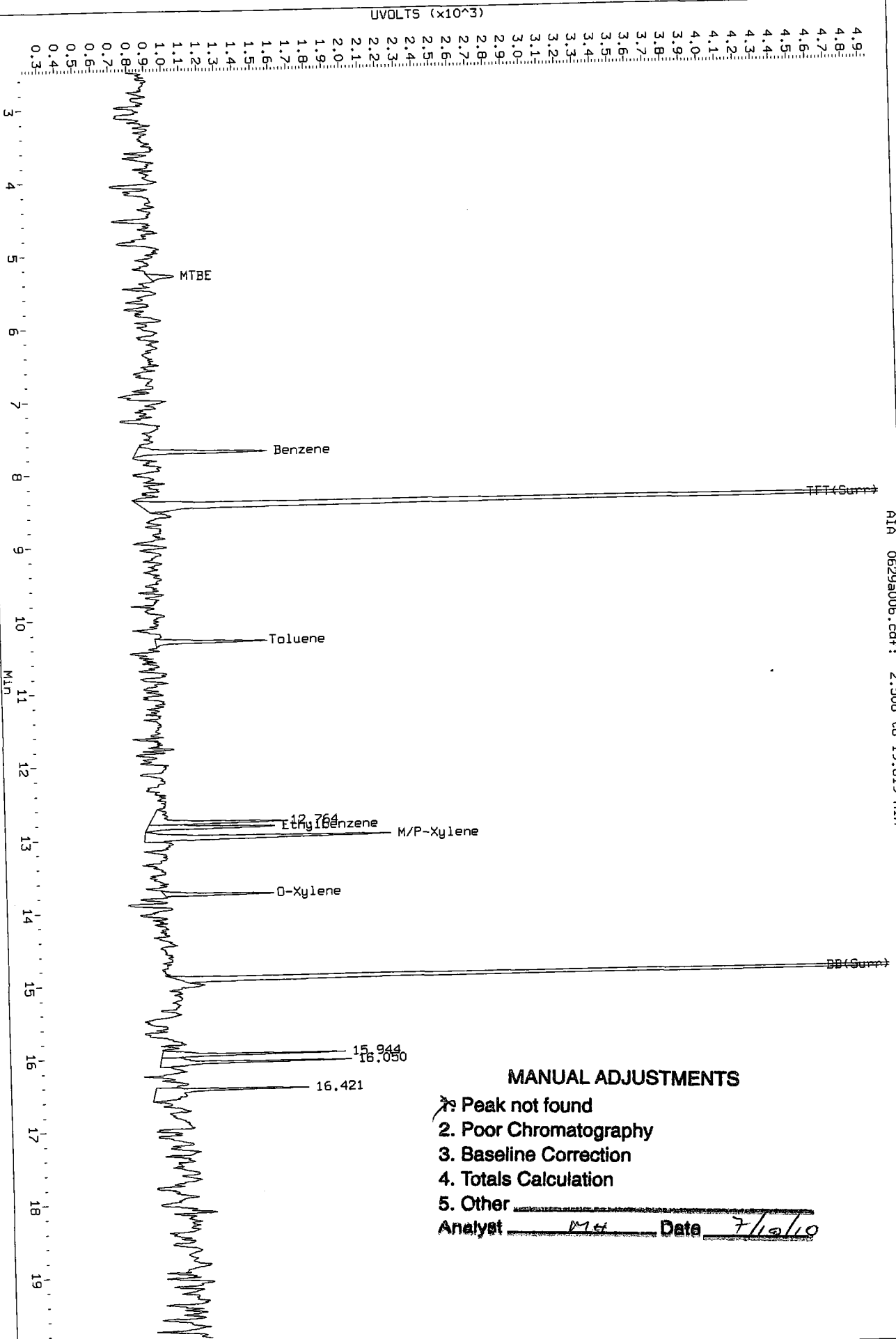
Instrument: pid3.i
Operator: MH
Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem3/pid3.i/20100629-1.b/0629a006.d/0629a006.cdf



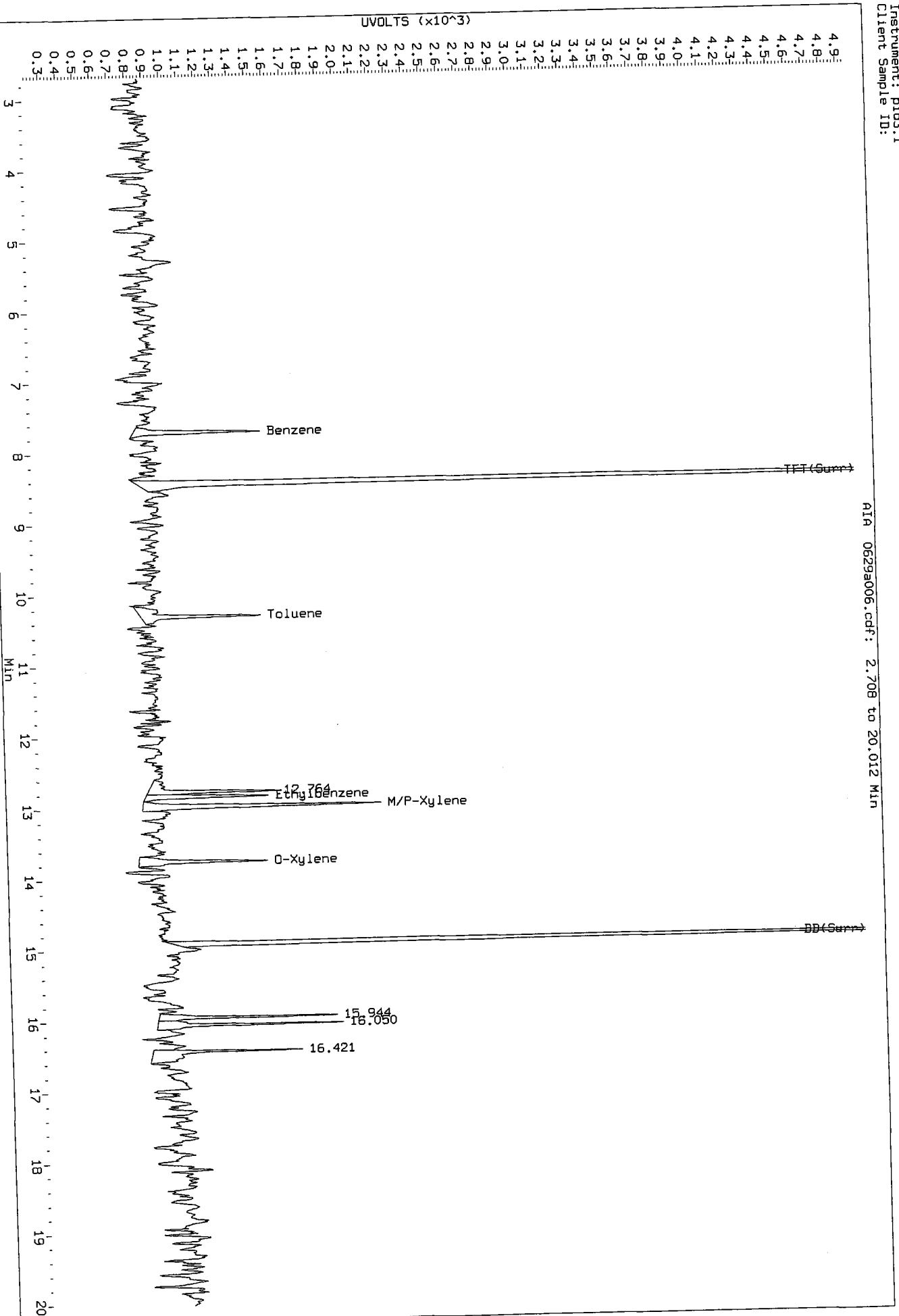
Data File: /chem3/pid3.1/20100629-1.b/0629a006.d/0629a006.cdf
 Injection Date: 29-JUN-2010 08:24
 Instrument: pid3.1
 Client Sample ID:



RI# 0629a006.cdf: 2.508 to 19.819 MIN

MH
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Data File: /chem3/pid3.1/20100629-1.1/b/0629a006.d/0629a006.cdf
Injection Date: 29-JUN-2010 08:24
Instrument: pid3.1
Client Sample ID:



ATN 0629a006.cdf: 2.708 to 20.012 Min

MH
7/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100629-2.b/0629a007.d
Data file 2: /chem3/pid3.i/20100629-1.b/0629a007.d
Method: /chem3/pid3.i/20100629-1.b/PIDB.m
Instrument: pid3.i
Gas Ical Date: 02-FEB-2010
BETX Ical Date: 29-JUN-2010

ARI ID: BETX 5
Client ID:
Injection Date: 29-JUN-2010 08:48
Matrix: WATER
Dilution Factor: 1.000

=====
FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.435	-0.003	4822	56817	67.0	TFT(Surr)
14.908	-0.003	2847	24157	66.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas Tol-C12 (10.21 to 17.13)	137046	0.197
8015B 2MP-TMB (4.93 to 15.54)	118984	0.088
AK101 nC6-nC10 (5.50 to 14.63)	107982	0.100
NWTPHG Tol-Nap (10.21 to 18.23)	152307	0.206

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

=====
PID Surrogates

RT	Shift	Response	%Rec	Compound
8.434	-0.003	14296	65.0	TFT(Surr)
14.907	-0.003	29105	63.8	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.709	-0.004	6287	4.76	Benzene
10.302	-0.006	6442	4.88	Toluene
12.837	-0.010	5819	4.68	Ethylbenzene
12.974	-0.015	13142	9.76	M/P-Xylene
13.753	-0.009	6477	5.04	O-Xylene
5.297	-0.003	1833	5.15	MTBE

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

Data File: /chem3/pid3.i/20100629-2.b/0629a007.d

Date: 29-JUN-2010 08:48

Client ID:

Sample Info: BETX 5

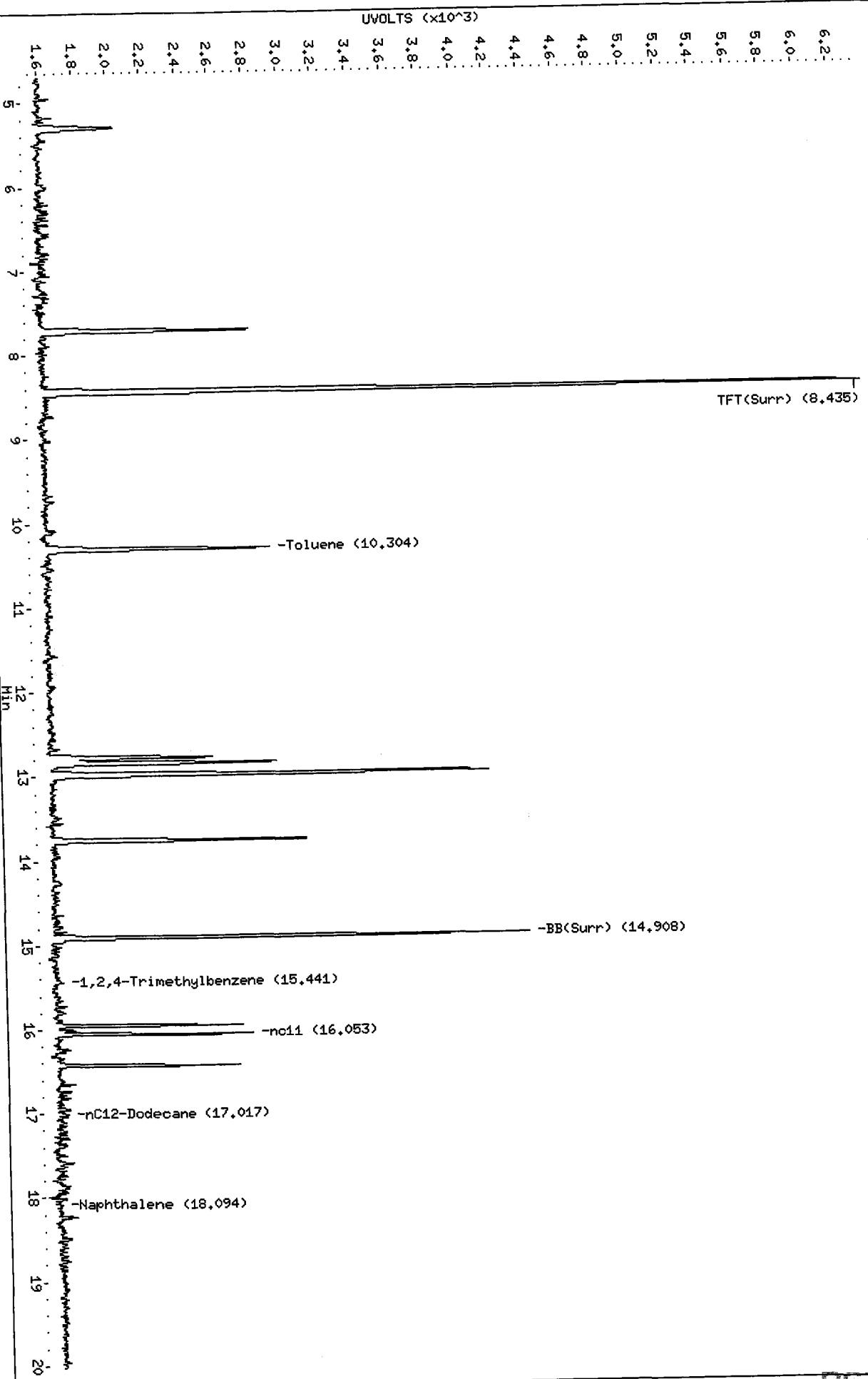
Instrument: pid3.i

Operator: HH

Column diameter: 0.18

Column phase: RTX 502-2 FID

/chem3/pid3.i/20100629-2.b/0629a007.d/0629a007.cdf

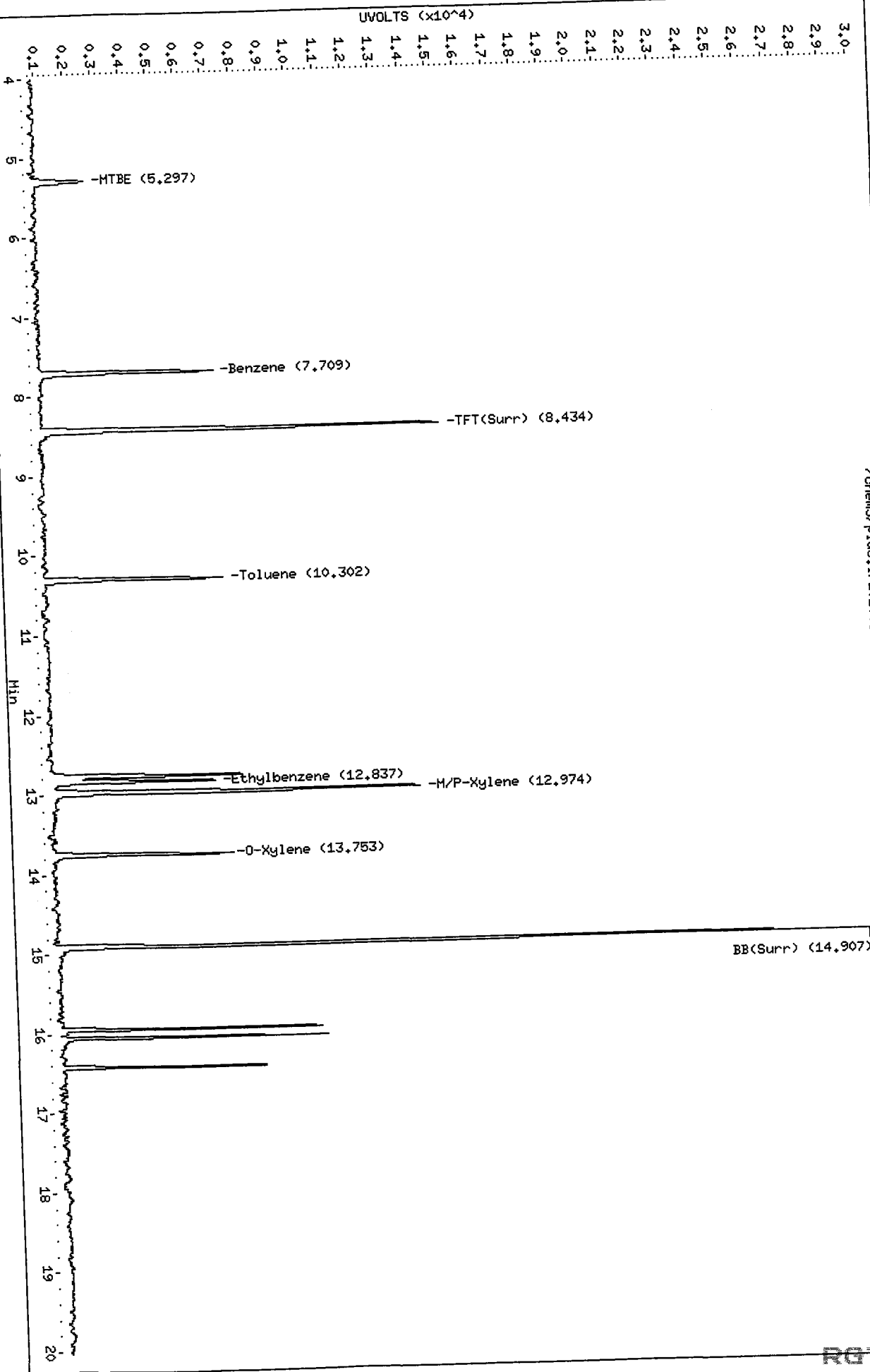


Data File: /chem3/pid3.i/20100629-1.b/0629a007.d
Date: 29-JUN-2010 08:48
Client ID:
Sample Info: BETX 5

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

Column phase: RTX 502-2 PID

/chem3/pid3.i/20100629-1.b/0629a007.d/0629a007.cdf



MH
7/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100629-2.b/0629a008.d
Data file 2: /chem3/pid3.i/20100629-1.b/0629a008.d
Method: /chem3/pid3.i/20100629-1.b/PIDB.m
Instrument: pid3.i
Gas Ical Date: 02-FEB-2010
BETX Ical Date: 29-JUN-2010

ARI ID: BETX 25
Client ID:
Injection Date: 29-JUN-2010 09:12
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	----	----	-----
8.439	0.000	7036	82252	97.8	TFT (Surr)
14.911	-0.001	4118	35649	95.6	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas Tol-C12 (10.21 to 17.13)	554289	0.797
8015B 2MP-TMB (4.93 to 15.54)	539482	0.398
AK101 nC6-nC10 (5.50 to 14.63)	505710	0.468
NWTPHG Tol-Nap (10.21 to 18.23)	562868	0.760

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
8.436	-0.001	21401	97.4	TFT (Surr)
14.908	-0.002	44020	96.6	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.712	-0.001	31003	23.45	Benzene
10.304	-0.004	31867	24.14	Toluene
12.840	-0.007	29632	23.85	Ethylbenzene
12.977	-0.012	65022	48.28	M/P-Xylene
13.755	-0.007	31715	24.68	O-Xylene
5.300	-0.001	8658	24.33	MTBE

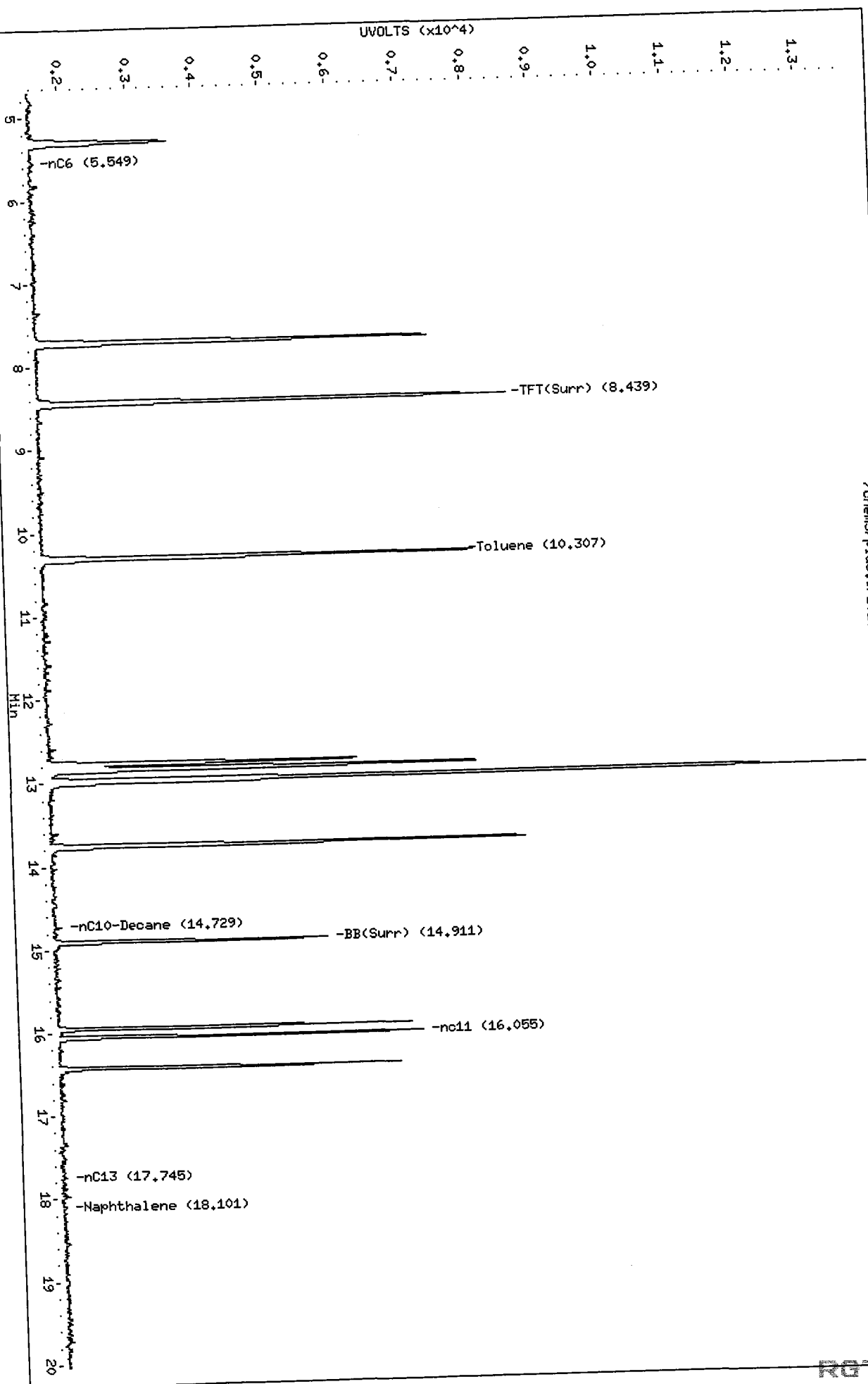
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100629-2.b/0629a008.d
Date: 29-JUN-2010 09:12
Client ID:
Sample Info: BETX 25

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

Column phase: RTX 502-2 FID

/chem3/pid3.i/20100629-2.b/0629a008.d/0629a008.cdf

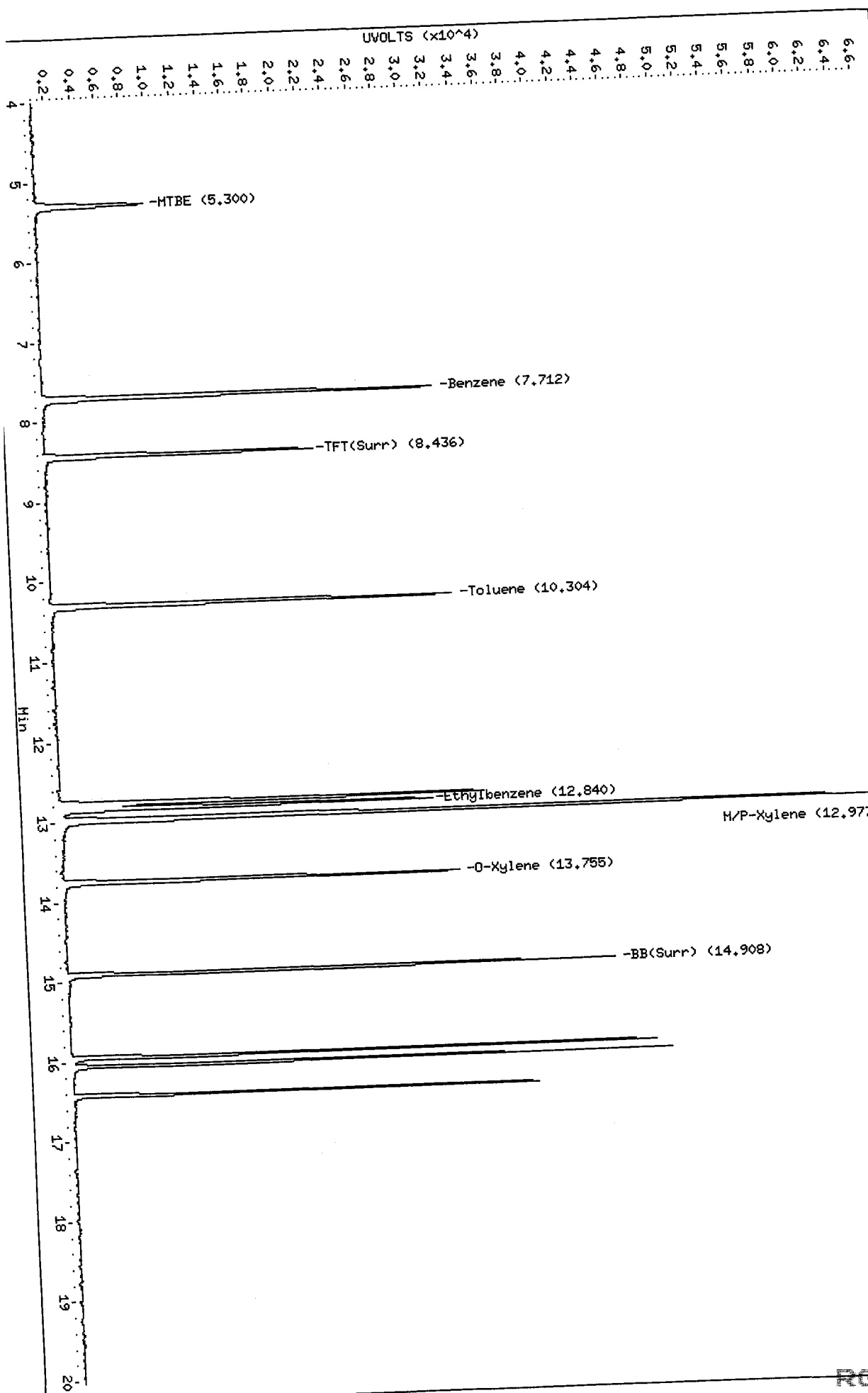


Data File: /chem3/pid3.i/20100629-1.b/0629a008.d
Date: 29-JUN-2010 09:12
Client ID:
Sample Info: BETX 25

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

Column phase: RTX 502-2 PID

/chem3/pid3.i/20100629-1.b/0629a008.d/0629a008.cdf



MH
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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100629-2.b/0629a009.d
Data file 2: /chem3/pid3.i/20100629-1.b/0629a009.d
Method: /chem3/pid3.i/20100629-1.b/PIDB.m
Instrument: pid3.i
Gas Ical Date: 02-FEB-2010
BETX Ical Date: 29-JUN-2010

ARI ID: BETX 50
Client ID:
Injection Date: 29-JUN-2010 09:37
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.438	-0.001	9374	110805	130.2	TFT (Surr)
14.911	-0.001	5595	46087	129.9	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas Tol-C12 (10.21 to 17.13)	1045595	1.504
8015B 2MP-TMB (4.93 to 15.54)	1041320	0.768
AK101 nC6-nC10 (5.50 to 14.63)	978534	0.906
NWTPHG Tol-Nap (10.21 to 18.23)	1053990	1.423

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.436	-0.001	28902	131.5	TFT (Surr)
14.909	-0.001	60660	133.1	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.711	-0.002	62822	47.52	Benzene
10.305	-0.003	63750	48.30	Toluene
12.841	-0.006	59507	47.89	Ethylbenzene
12.979	-0.010	130181	96.67	M/P-Xylene
13.757	-0.005	64099	49.89	O-Xylene
5.298	-0.003	17422	48.97	MTBE

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

Data File: /chem3/pid3.1/20100629-2.b/0629a009.d
Date : 29-JUN-2010 09:37

Instrument: pid3.1

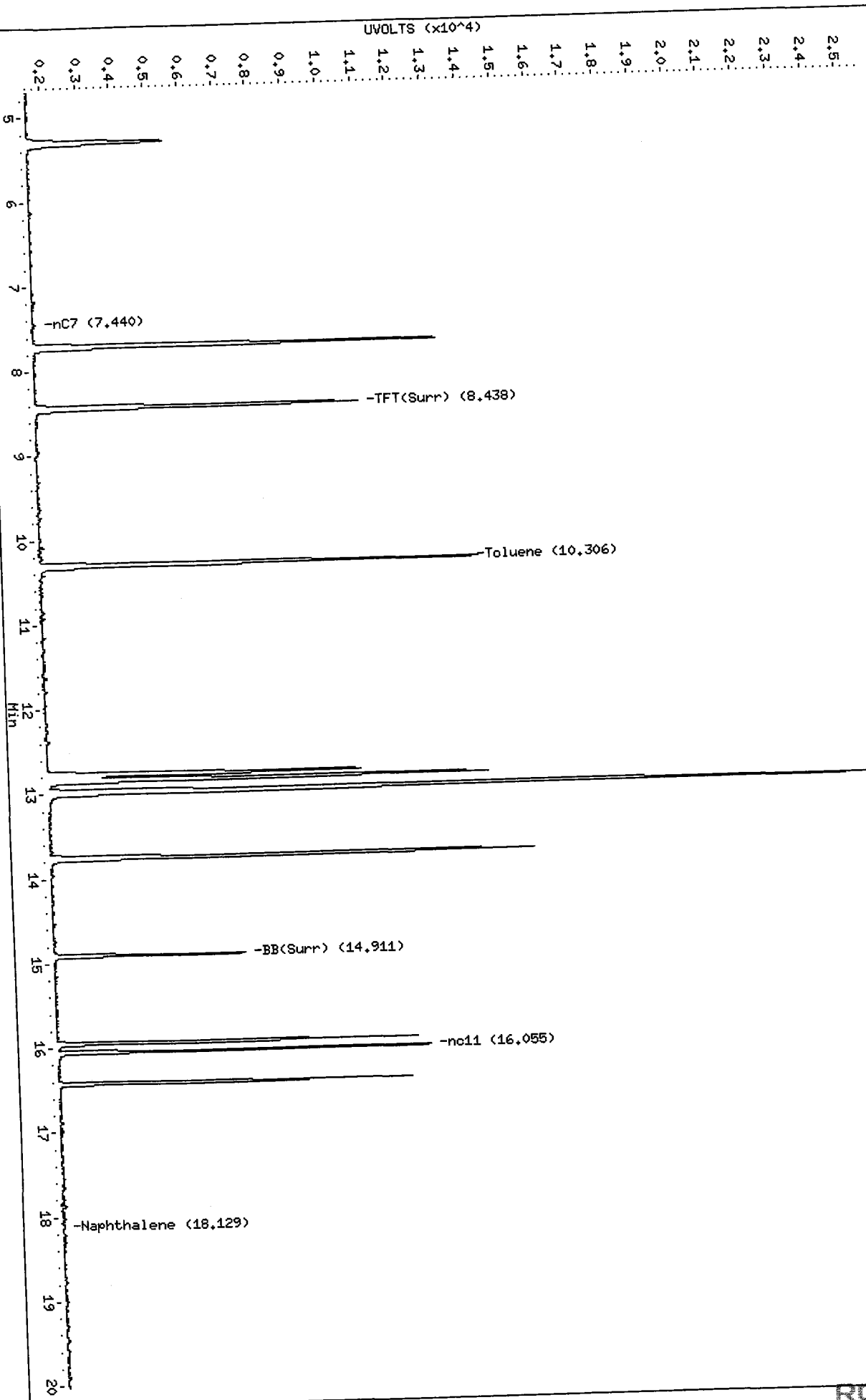
Client ID:

Sample Info: BETX 50

Operator: HH
Column diameter: 0.18

Column phase: RTX 502-2 FID

/chem3/pid3.1/20100629-2.b/0629a009.d/0629a009.cdf

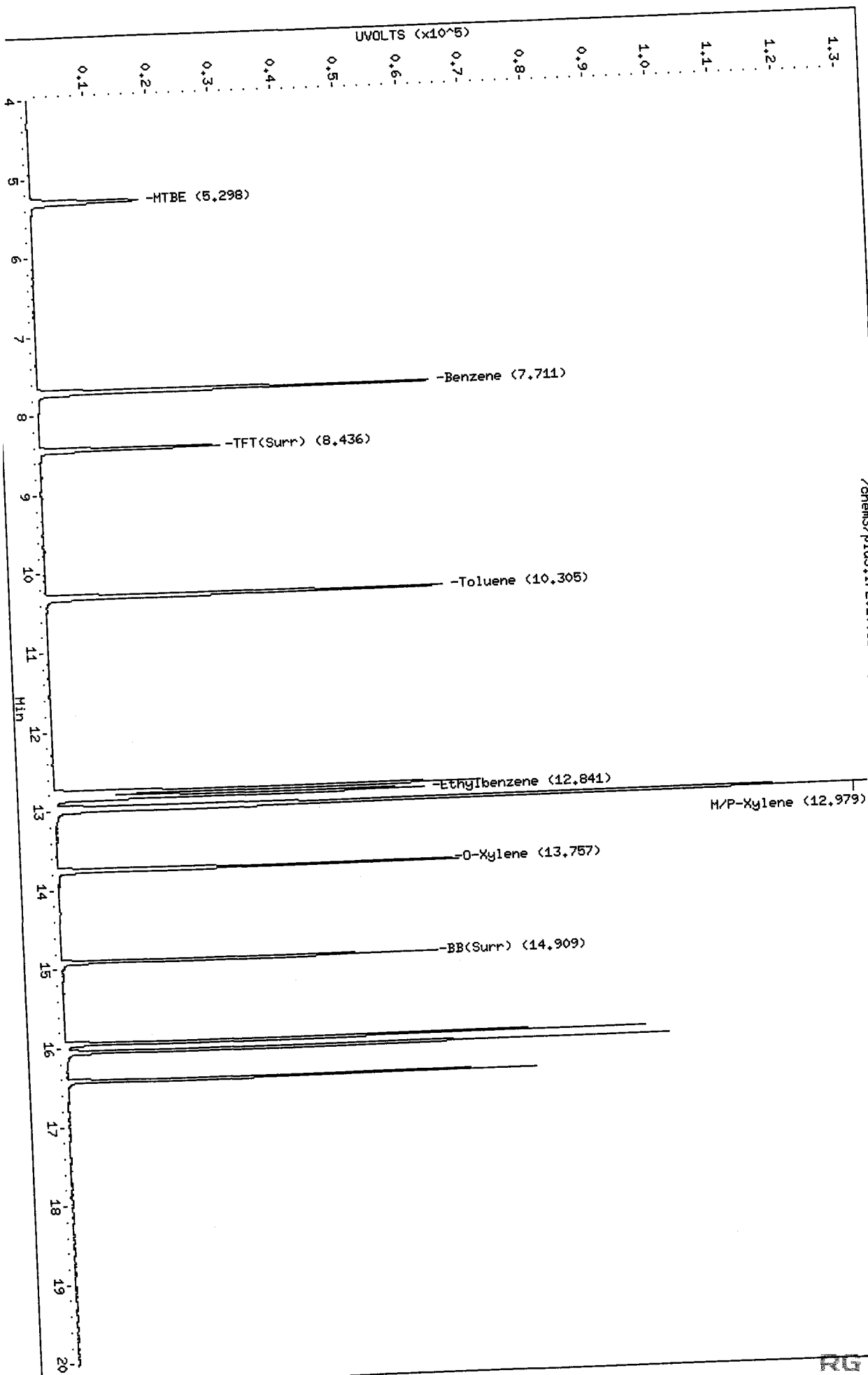


Data File: /chem3/pid3.i/20100629-1.b/0629a009.d
Date : 29-JUN-2010 09:37
Client ID:
Sample Info: BETX 50

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

Column phase: RTX 502-2 PID

/chem3/pid3.i/20100629-1.b/0629a009.d/0629a009.cdf



MH
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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100629-2.b/0629a010.d
Data file 2: /chem3/pid3.i/20100629-1.b/0629a010.d
Method: /chem3/pid3.i/20100629-1.b/PIDB.m
Instrument: pid3.i
Gas Ical Date: 02-FEB-2010
BETX Ical Date: 29-JUN-2010

ARI ID: BETX 100
Client ID:
Injection Date: 29-JUN-2010 10:01
Matrix: WATER
Dilution Factor: 1.000

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	-----	----	-----
8.440	0.001	12289	144775	170.7	TFT (Surr)
14.912	0.001	7394	58577	171.7	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
-----	-----	-----
WAGas Tol-C12 (10.21 to 17.13)	2011481	2.893
8015B 2MP-TMB (4.93 to 15.54)	1982095	1.462
AK101 nC6-nC10 (5.50 to 14.63)	1860428	1.722
NWTPHG Tol-Nap (10.21 to 18.23)	2014004	2.719

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

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
8.438	0.001	37664	171.3	TFT (Surr)
14.910	0.001	80033	175.6	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.714	0.001	122057	92.32	Benzene
10.307	-0.001	124686	94.47	Toluene
12.844	-0.003	115194	92.70	Ethylbenzene
12.984	-0.006	249433	185.23	M/P-Xylene
13.759	-0.003	125630	97.78	O-Xylene
5.302	0.001	33414	93.91	MTBE

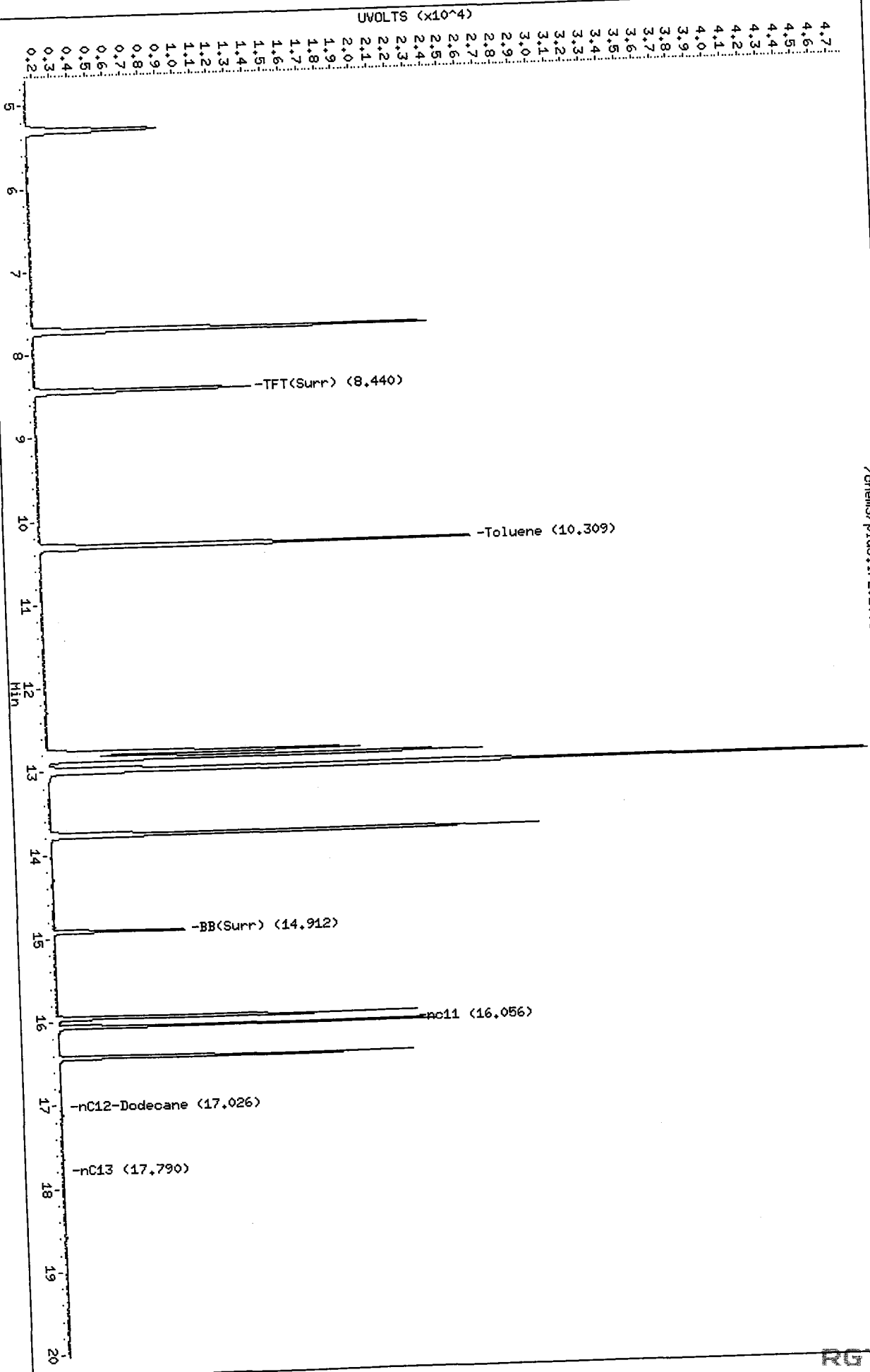
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100629-2.b/0629a010.d
Date : 29-JUN-2010 10:01
Client ID:
Sample Info: BETX 100

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

Column phase: RTX 502-2 FID

/chem3/pid3.i/20100629-2.b/0629a010.d/0629a010.cdf

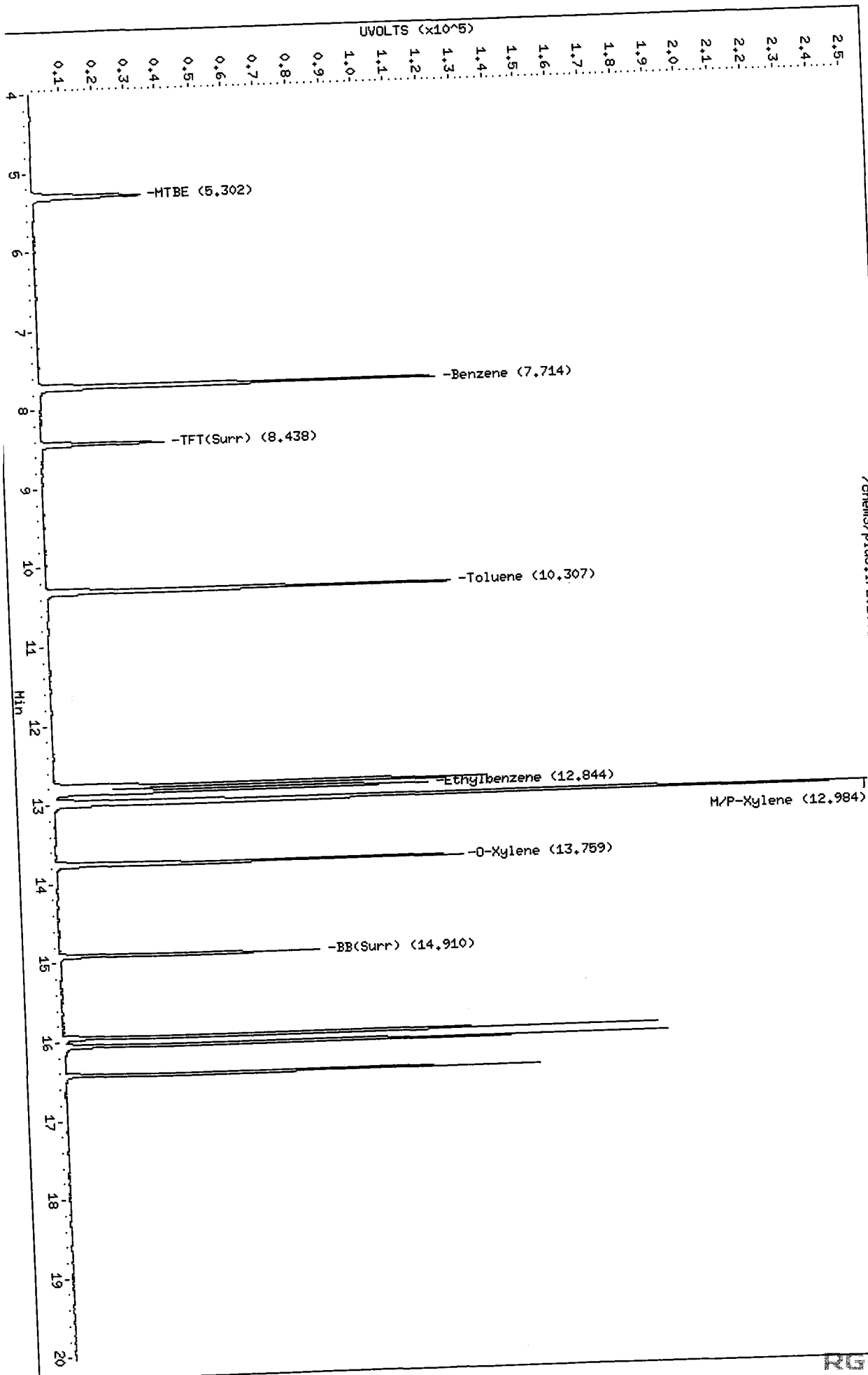


Data File: /chem3/pid3.i/20100629-1.b/0629a010.d
Date : 29-JUN-2010 10:01
Client ID:
Sample Info: BETX 100

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

Column phase: RTX 502-2 PID

/chem3/pid3.i/20100629-1.b/0629a010.d/0629a010.cdf



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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100629-2.b/0629a011.d
Data file 2: /chem3/pid3.i/20100629-1.b/0629a011.d
Method: /chem3/pid3.i/20100629-1.b/PIDB.m
Instrument: pid3.i
Gas Ical Date: 02-FEB-2010
BETX Ical Date: 29-JUN-2010

ARI ID: BETX 200
Client ID:
Injection Date: 29-JUN-2010 10:26
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.439	0.000	14060	165027	195.3	TFT (Surr)
14.911	0.000	8446	67516	196.1	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas Tol-C12 (10.21 to 17.13)	4138650	5.951
8015B 2MP-TMB (4.93 to 15.54)	4088735	3.015
AK101 nC6-nC10 (5.50 to 14.63)	3833098	3.547
NWTPHG Tol-Nap (10.21 to 18.23)	4139793	5.588

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.437	0.000	43804	199.3	TFT (Surr)
14.910	0.000	92698	203.3	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.713	0.000	250899	189.77	Benzene
10.308	0.000	258768	196.06	Toluene
12.847	0.000	236635	190.43	Ethylbenzene
12.989	0.000	507143	376.60	M/P-Xylene
13.762	0.000	261479	203.52	O-Xylene
5.301	0.000	68624	192.87	MTBE

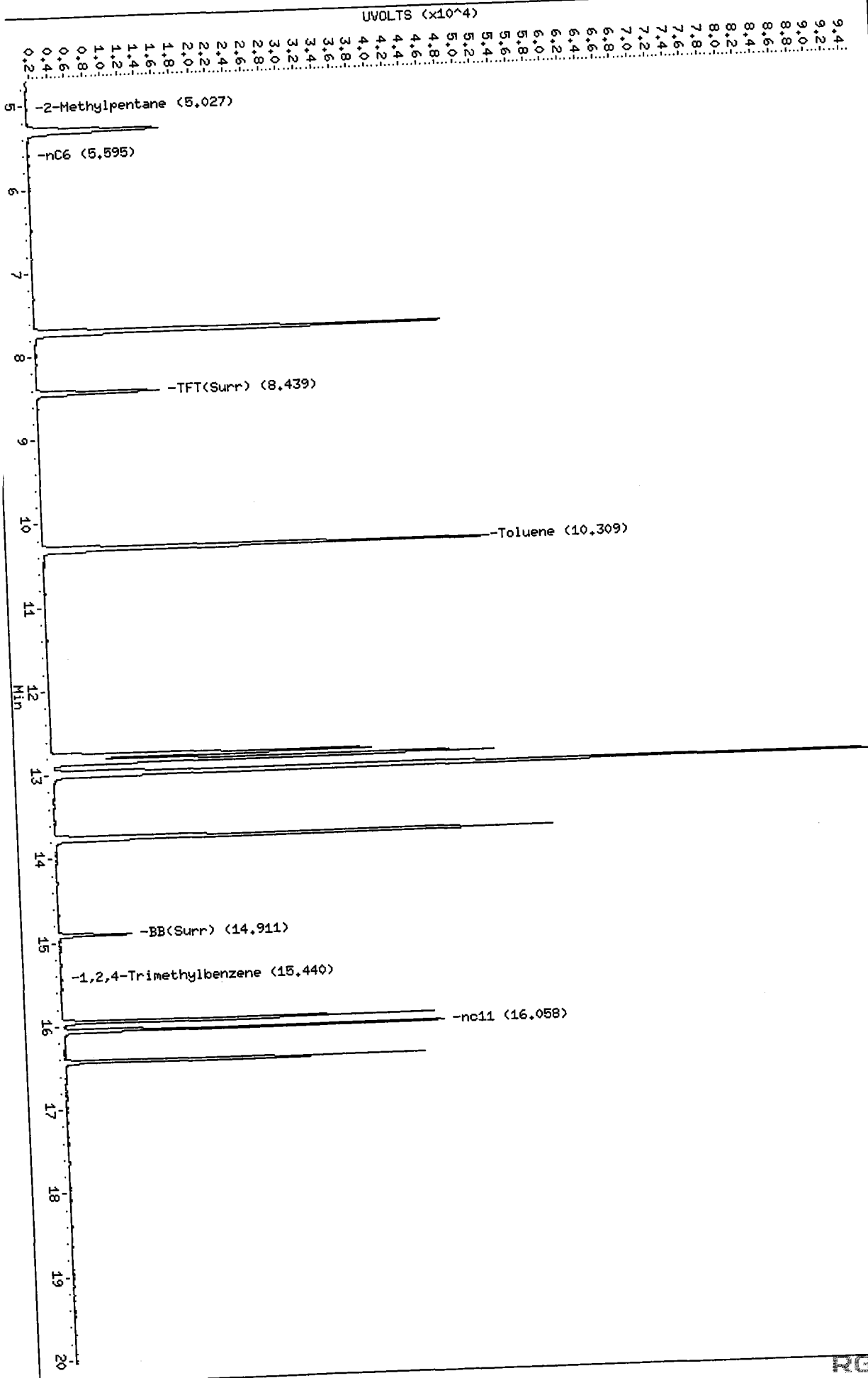
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100629-2.b/0629a011.d
Date : 29-JUN-2010 10:26
Client ID:
Sample Info: BETX 200

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

Column phase: RTX 502-2 FID

/chem3/pid3.i/20100629-2.b/0629a011.d/0629a011.cdf

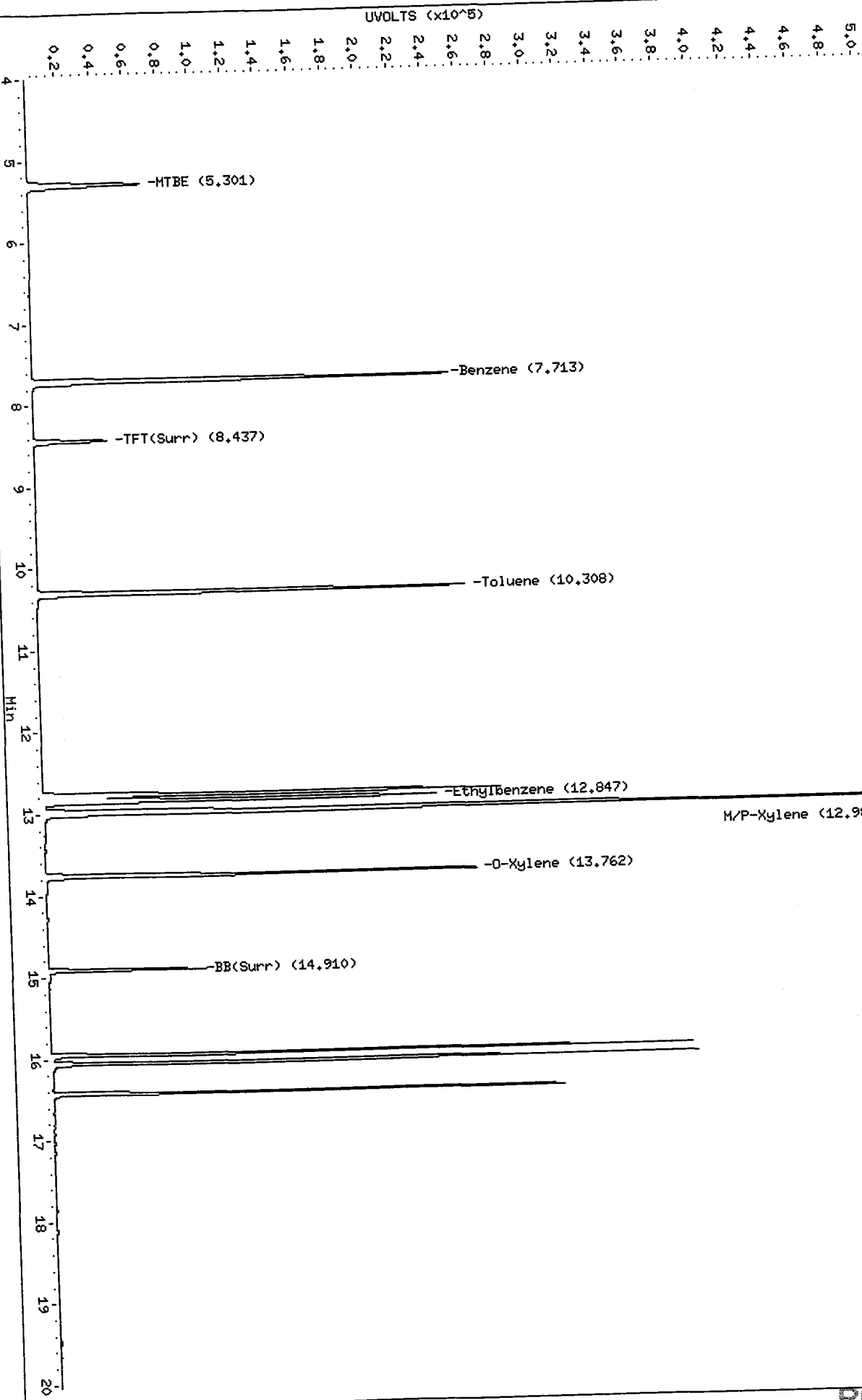


Data File: /chem3/pid3.i/20100629-1.b/0629a011.d
Date: 29-JUN-2010 10:26
Client ID:
Sample Info: BETX 200

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

Column phase: RTX 502-2 PID

/chem3/pid3.i/20100629-1.b/0629a011.d/0629a011.cdf



MH
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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100629-2.b/0629a012.d ARI ID: BETX ICV
Data file 2: /chem3/pid3.i/20100629-1.b/0629a012.d Client ID:
Method: /chem3/pid3.i/20100629-1.b/PIDB.m Injection Date: 29-JUN-2010 10:50
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 02-FEB-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.439	0.000	6906	81786	95.9	TFT(Surr)
14.911	0.000	4128	34996	95.9	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas Tol-C12 (10.21 to 17.13)	577743	0.831
8015B 2MP-TMB (4.93 to 15.54)	579812	0.428
AK101 nC6-nC10 (5.50 to 14.63)	541769	0.501
NWTPHG Tol-Nap (10.21 to 18.23)	580332	0.783

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.437	0.000	21036	95.7	TFT(Surr)
14.909	0.000	44825	98.3	BB(Surr)

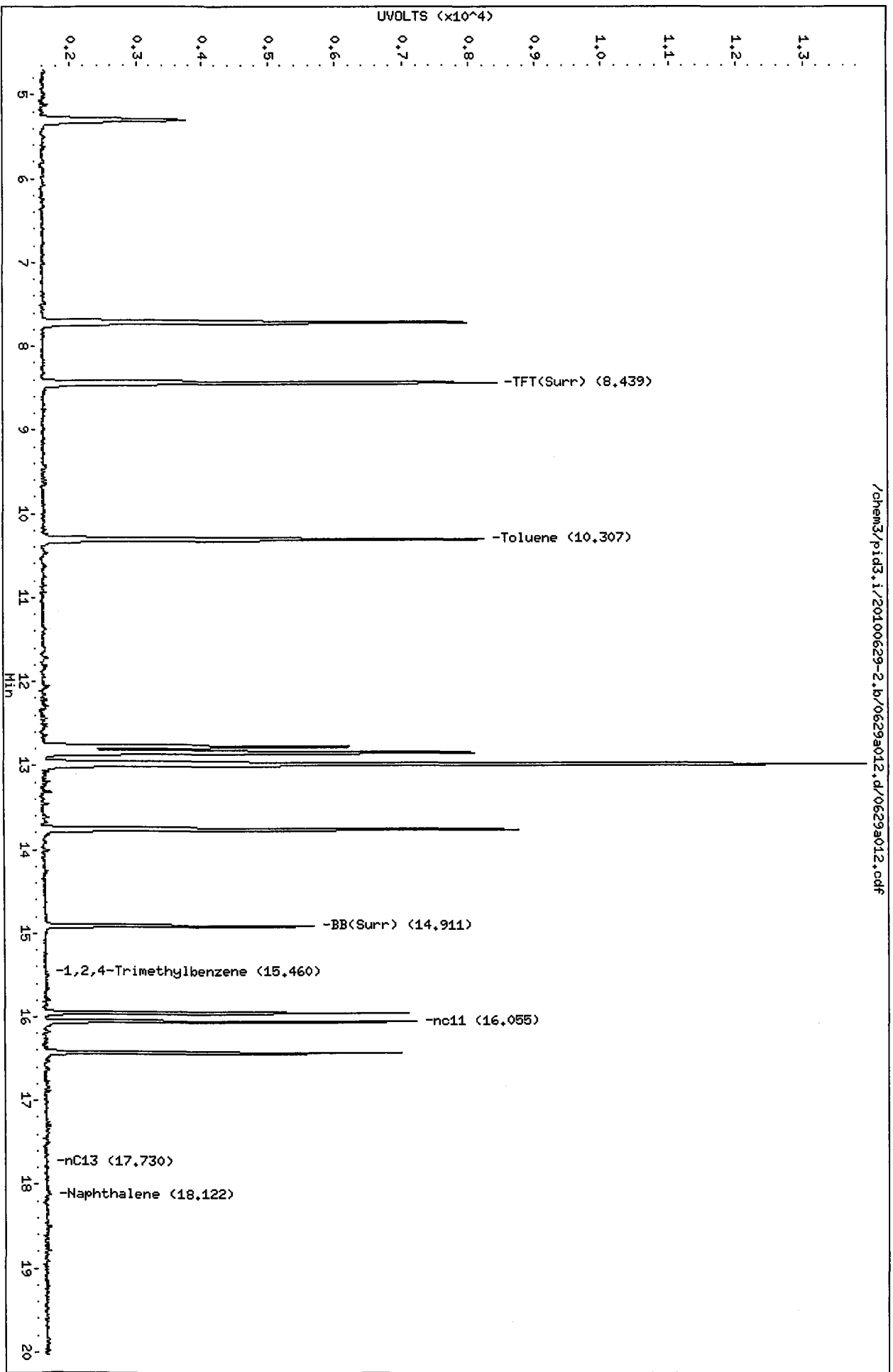
SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.712	-0.001	34297	25.94	Benzene
10.305	-0.002	33530	25.40	Toluene
12.841	-0.005	30482	24.53	Ethylbenzene
12.979	-0.010	67184	49.89	M/P-Xylene
13.757	-0.005	32583	25.36	O-Xylene
5.300	-0.001	9537	26.80	MTBE

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

Data File: /chem3/pid3.i/20100629-2.b/0629s012.d
Date : 29-JUN-2010 10:50
Client ID:
Sample Info: BETX ICV
Column phase: RTX 502-2 FID

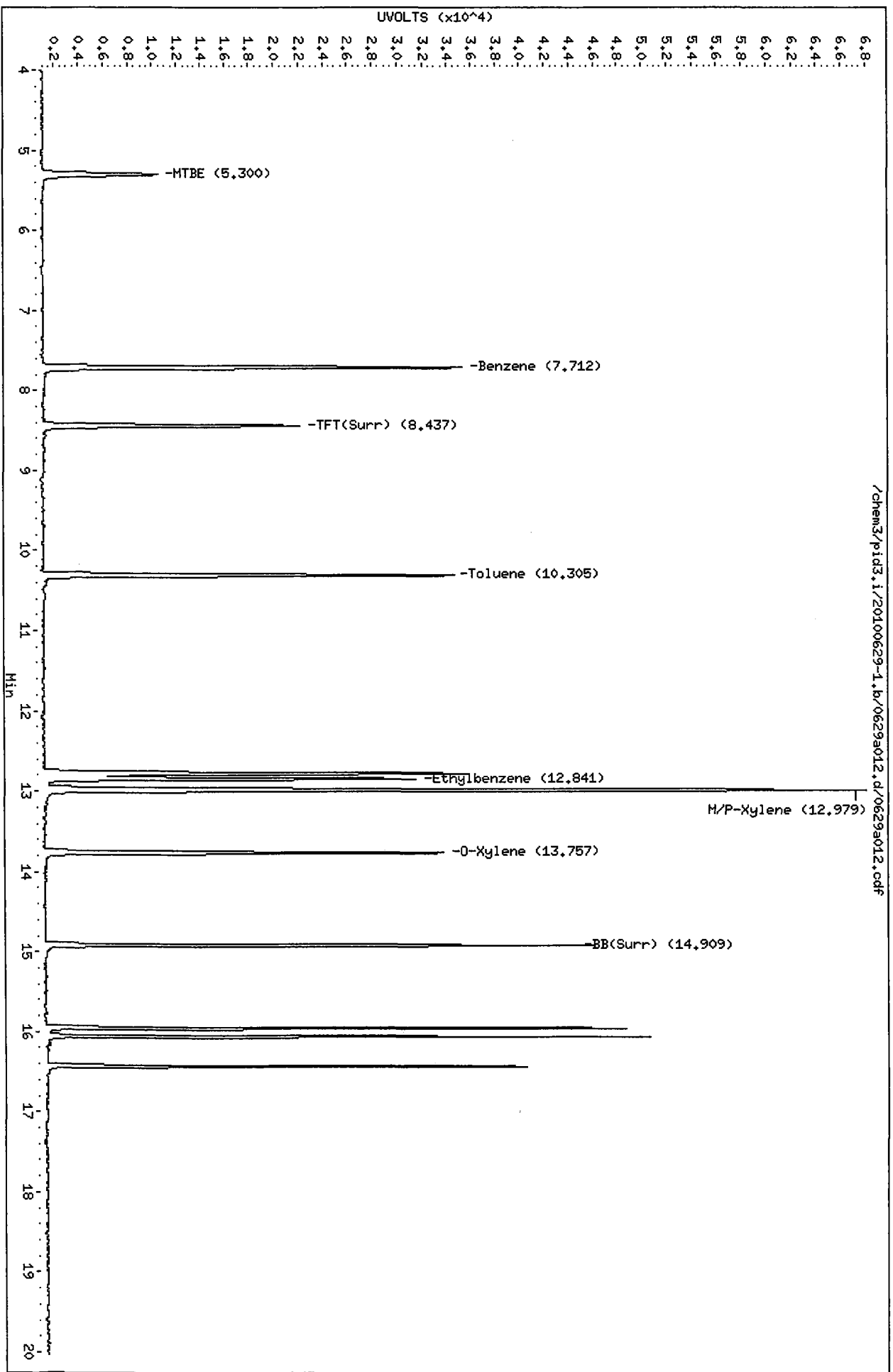
Instrument: pid3.i
Operator: MH
Column diameter: 0.18



/chem3/pid3.i/20100629-2.b/0629s012.d.cdf

Data File: /chem3/pid3.i/20100629-1.b/0629s012.d
Date : 29-JUN-2010 10:50
Client ID:
Sample Info: BETX ICV
Column phase: RTX 502-2 PID

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



/chem3/pid3.i/20100629-1.b/0629s012.d/0629s012.cdf

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid3.i/20100629-2.b/FID.m
Batch File: /chem3/pid3.i/20100629-2.b
Inst ID: pid3.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	5.027	5.027	4.957-5.097	5.027	0.000
18 WAGAS	+++++	+++++	+++++	+++++	+++++	+++++	1.097	1.097	1.027-1.167	+++++	+++++
19 8015B	+++++	+++++	+++++	+++++	+++++	+++++	0.891	0.891	0.821-0.961	+++++	+++++
20 AK101	+++++	+++++	+++++	+++++	+++++	+++++	1.000	1.000	0.930-1.070	+++++	+++++
21 NWGAS	+++++	+++++	+++++	+++++	+++++	+++++	1.000	1.000	0.930-1.070	+++++	+++++
2 nC6	+++++	+++++	+++++	5.549	+++++	+++++	5.595	5.595	5.525-5.665	5.572	0.032
3 nC7	+++++	7.470	+++++	+++++	7.440	+++++	+++++	7.440	7.370-7.510	7.455	0.021
4 TFF(Surr)	8.418	8.430	8.435	8.439	8.438	8.440	8.439	8.418	8.348-8.488	8.434	0.008
5 nC8	+++++	9.879	+++++	+++++	+++++	+++++	+++++	9.879	9.809-9.949	9.879	0.000
6 Toluene	+++++	10.297	10.304	10.307	10.306	10.309	10.309	10.309	10.239-10.379	10.305	0.005
7 nC9	+++++	12.387	+++++	+++++	+++++	+++++	+++++	12.387	12.317-12.457	12.387	0.000
8 nC10-Decane	14.697	+++++	+++++	14.729	+++++	+++++	+++++	14.697	14.627-14.767	14.713	0.023
9 BB(Surr)	14.897	14.906	14.908	14.911	14.911	14.912	14.911	14.897	14.827-14.967	14.908	0.005
10 1,2,4-Trimethylbenzene	15.452	+++++	15.441	+++++	+++++	+++++	15.440	15.452	15.382-15.522	15.444	0.007
11 nC11	16.042	16.052	16.053	16.055	16.055	16.056	16.058	16.042	15.972-16.112	16.053	0.005
12 nC12-Dodecane	+++++	17.023	17.017	+++++	+++++	17.026	+++++	17.026	16.956-17.096	17.022	0.005
13 nC13	17.827	17.760	+++++	17.745	+++++	17.790	+++++	17.827	17.757-17.897	17.781	0.036

Reviewer 1 AD Date: 7/10/10
Reviewer 2 M4 Date: 7.10.10

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid3.i/20100629-1.b/PIDB.m
Batch File: /chem3/pid3.i/20100629-1.b
Inst ID: pid3.i

ID	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
FILENAME: 0629a005	0629a006	0629a007	0629a008	0629a009	0629a010	0629a010	0629a011				
INJ DATE: 29-JUN-2010	29-JUN-2010	29-JUN-2010	29-JUN-2010	29-JUN-2010	29-JUN-2010	29-JUN-2010	29-JUN-2010				
INJ TIME: 07:59	08:24	08:48	09:12	09:37	10:01	10:26					
Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 MTBE	5.283	5.300	5.297	5.300	5.298	5.302	5.301	5.283	5.213-5.353	5.297	0.006
2 Benzene	7.694	7.706	7.709	7.712	7.711	7.714	7.713	7.694	7.624-7.764	7.708	0.007
3 TBT(Surr)	8.417	8.429	8.434	8.436	8.436	8.438	8.437	8.417	8.347-8.487	8.433	0.008
4 Toluene	10.287	10.297	10.302	10.304	10.305	10.307	10.308	10.287	10.217-10.357	10.301	0.007
15 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.835-12.905	+++++	+++++
5 Ethylbenzene	12.817	12.832	12.837	12.840	12.841	12.844	12.847	12.817	12.747-12.887	12.837	0.010
6 M/P-Xylene	12.955	12.969	12.974	12.977	12.979	12.984	12.989	12.955	12.885-13.025	12.975	0.011
7 O-Xylene	13.737	13.750	13.753	13.755	13.757	13.759	13.762	13.737	13.687-13.787	13.753	0.008
8 BB(Surr)	14.893	14.904	14.907	14.908	14.909	14.910	14.910	14.893	14.823-14.963	14.906	0.006
13 1,3,5 Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.421-12.491	+++++	+++++
14 1,2,4 Trimethyl benzen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.059-13.129	+++++	+++++
16 1,3 Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.034-16.104	+++++	+++++
17 1,4 Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.140-16.210	+++++	+++++
18 1,2 Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.513-16.583	+++++	+++++

Reviewer 1 MH Date: 7/10/10
Reviewer 2 VJ Date: 7-10-10

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/pid3.i/20100629-1.b

ARI Job No.: BETX Method: PIDB.m Instrument: pid3.i Date: 29-JUN-2010

Time Filename LabID ClientId DF Manually Integrated Compounds

0759 0629a005.d BETX .25 1 Toluene, Ethylbenzene, O-Xylene, MTBE, TFT(Surr), BB(Surr),

0824 0629a006.d BETX .5 1 Toluene, O-Xylene, MTBE,

0848 0629a007.d BETX 5 1 NO MANUAL INTEGRATION

0912 0629a008.d BETX 25 1 NO MANUAL INTEGRATION

0937 0629a009.d BETX 50 1 NO MANUAL INTEGRATION

1001 0629a010.d BETX 100 1 NO MANUAL INTEGRATION

1026 0629a011.d BETX 200 1 NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem3/pid3.i/20100629-2.b

ARI Job No.: BETX Method: FID.m Instrument: pid3.i Date: 29-JUN-2010

Time Filename LabID ClientId DF Manually Integrated Compounds

0759 0629a005.d BETX .25 1 NO MANUAL INTEGRATION

0824 0629a006.d BETX .5 1 NO MANUAL INTEGRATION

0848 0629a007.d BETX 5 1 NO MANUAL INTEGRATION

0912 0629a008.d BETX 25 1 NO MANUAL INTEGRATION

0937 0629a009.d BETX 50 1 NO MANUAL INTEGRATION

1001 0629a010.d BETX 100 1 NO MANUAL INTEGRATION

1026 0629a011.d BETX 200 1 NO MANUAL INTEGRATION

**TPHG/BETX Raw Data
Run Logs, Continuing Calibrations, and Raw Data**

ARI Job ID: RG78

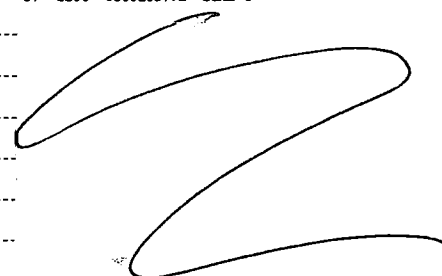
Analytical Resources Inc.: Organics Instrument Log

PID-2 Serial No.: 33033A-33620

Date: 8/6/10 Analysis: NWTPHG/BETA Analyst: MH
 GC Program: BETA1 Column No: 832217 Column Type: RTX502-Z
 Instrument Tune (.U or .CT.): _____ EM Voltage: _____
 Calibration File: _____ Curve Date: 7/28/10

IS/SS	Ical/Ccal	LCS/ICV
<u>VW632-3 MH 8/10/10</u>	<u>VW635-1</u>	<u>VW647-2</u>
<u>VW648-3</u>	<u>VW644-3</u>	
	<u>VW647-2</u>	

Time	Filename	LabID	ClientID	Vial#	pH	DF						
1	0559	0806a001.d	RINSE			1	23	1601	0806a023.d	RG78D	PSB9A-4-6-073010	0.00
2	0625	0806a002.d	RT-BCAL 1			1	24	1627	0806a024.d	RINSE		1
3	0651	0806a003.d	GCAL 1			1	25	1653	0806a025.d	BCAL 3		1
4	0717	0806a004.d	LCS0806			1	26	1718	0806a026.d	GCAL 3		1
5	0743	0806a005.d	LCSD0806			1	27	1744	0806a027.d	RG78F	PSB10-0-0.5-073010	0.00
6	0809	0806a006.d	MB0806			1	28	1810	0806a028.d	RG78H	PSB10-2-4-073010	0.00
7	0850	0806a007.d	RG58T	PSB22-TB		1	29	1836	0806a029.d	RG78I	PSB10-4-6-073010	0.00
8	0932	0806a008.d	RG58U	PSB23-TB		1	30	1902	0806a030.d	RG78J	PSB10-8.5-10-073010	0.00
9	0958	0806a009.d	RG58V	PSB24-TB		1	31	1928	0806a031.d	RG78JMS	PSB10-8.5-10-07 MS	0.00
10	1023	0806a010.d	RG78M	PSB9-TB		1	32	1954	0806a032.d	RG78JMSD	PSB10-8.5-10-07 MSD	0.00
11	1049	0806a011.d	RG78N	PSB10-TB		1	33	2020	0806a033.d	RG78K	PSB10-14-15-073010	0.00
12	1115	0806a012.d	RG58E	PSB22-17-19-072910		0.00	34	2046	0806a034.d	RG78L	PSB10-20-25-073010	0.00
13	1141	0806a013.d	RINSE			1	35	2112	0806a035.d	RINSE		1
14	1207	0806a014.d	BCAL 2			1	36	2138	0806a036.d	BCAL 4		1
15	1233	0806a015.d	GCAL 2			1	37	2204	0806a037.d	GCAL 4		1
16	1259	0806a016.d	RG58F	PSB22-19-20-072910		0.00						
17	1325	0806a017.d	RG58K	PSB23-14-16.5-07291		0.00						
18	1351	0806a018.d	RG58L	PSB23-16.5-19-07291		0.00						
19	1417	0806a019.d	RG58R	PSB24-14-16-072910		0.00						
20	1443	0806a020.d	RG58S	PSB24-16-17-072910		0.00						
21	1509	0806a021.d	RG78A	PSB9A-11-13.5-07301		0.00						
22	1535	0806a022.d	RG78B	PSB9A-1.5-2-073010		0.00						


 MH
 8/10/10

Maintenance / Comments BCal 2 Failed low for Ethylbenzene by 17.62.76% m/P Xylene by 2.12% & o-Xylene by 0.92% TB's reported no more val for re-runs, all soil samples re-run in PID 3 8/9/10.

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



VOA Analyst Notes / Corrective Action Log

ARI Project ID: RG 58/RG 78 Client ID: Floyd/Snyder

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

Parameter(s): NWTPHG/BETX

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

Purge Volume (mL) 5 Curve Date: 7/28/10 Analysis Start Date: 8/6/10

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

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

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

Bad 2 low for Ethylbenzene by 2.76%
m/p xylene by 2.12%
o-xylene by 0.92%
TB's reported no more wabs for 2nd runs. soils re-run on
PID 3 8/9/10

Additional Details on Reverse: Yes / No

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

Reviewer: [Signature] Date: 8/11/10

M4
8/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/080610-1.b/0806a002.d
Data file 2: /chem3/pid2.i/080610-2.b/0806a002.d
Method: /chem3/pid2.i/080610-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 28-JUL-2010

ARI ID: RT+BCAL 1
Client ID:
Injection Date: 06-AUG-2010 06:25
Matrix: WATER
Dilution Factor: 1.000

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.188	0.000	4096	67636	98.7	TFT (Surr)
14.802	0.000	2994	27506	99.2	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	706169	1.224
8015B (2MP-TMB)	1015260	0.778
AKGas (nC6-nC10)	733190	0.825
NWGas (Tol-Nap)	742685	1.234

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.235	0.010	1451	101.0	TFT (Surr)
14.828	0.003	5780	99.4	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
7.492	0.009	2869	24.64	Benzene
10.099	0.005	2510	24.20	Toluene
12.658	0.002	2621	22.87	Ethylbenzene
12.804	0.001	4670	48.19	M/P-Xylene
13.609	0.004	2434	23.97	O-Xylene
5.115	0.015	995	23.70	MTBE

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

Data File: /chem3/pid2.i/080610-1.b/0806a002.d

Date: 06-AUG-2010 06:25

Client ID:

Sample Info: RT+BCAL 1

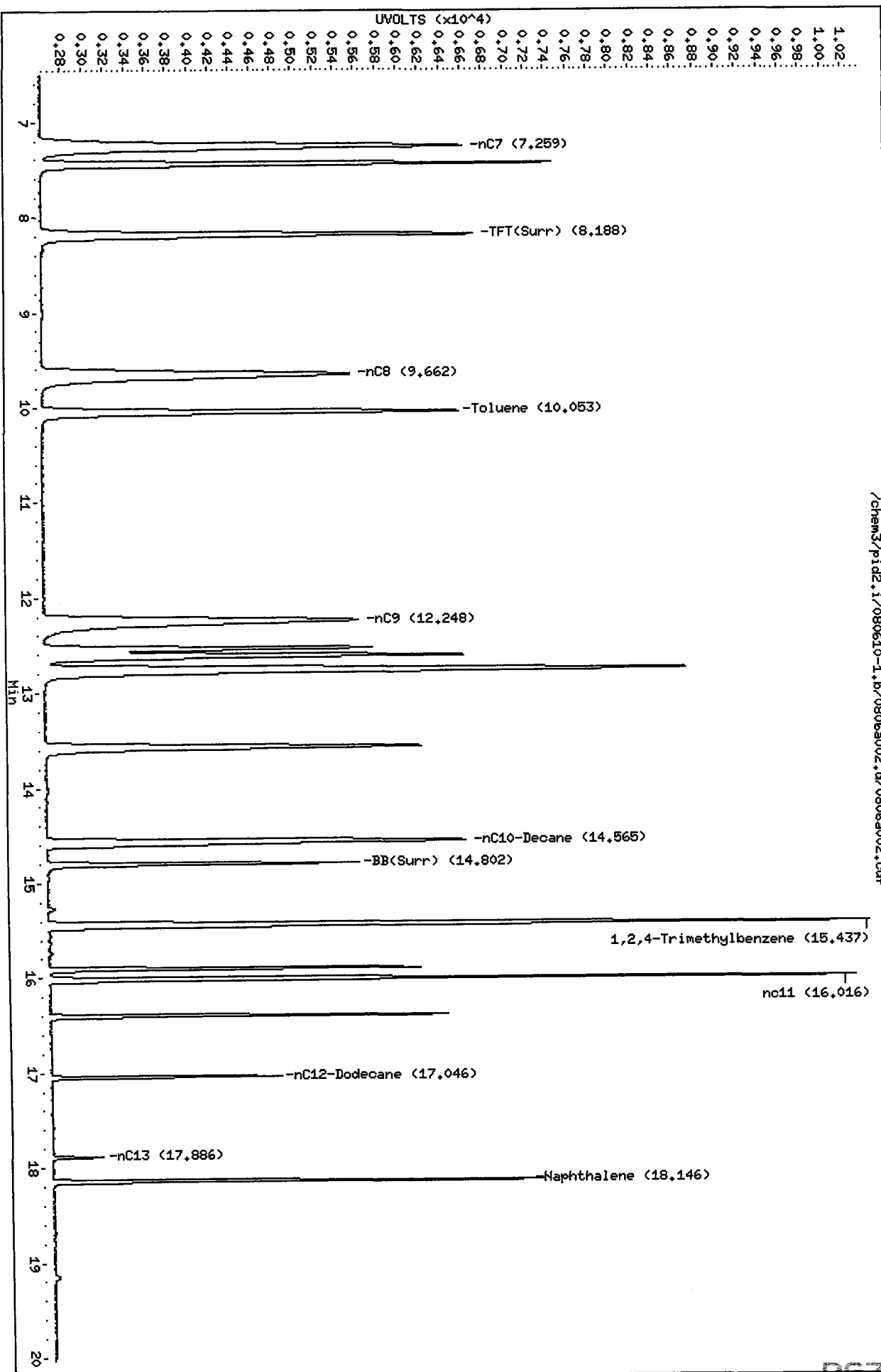
Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: MH

Column diameter: 0.18

/chem3/pid2.i/080610-1.b/0806a002.d/0806a002.cdf



Data File: /chem3/pid2.i/080610-2.b/0806a002.d

Date: 06-AUG-2010 06:25

Client ID:

Sample Info: RT+BCAL 1

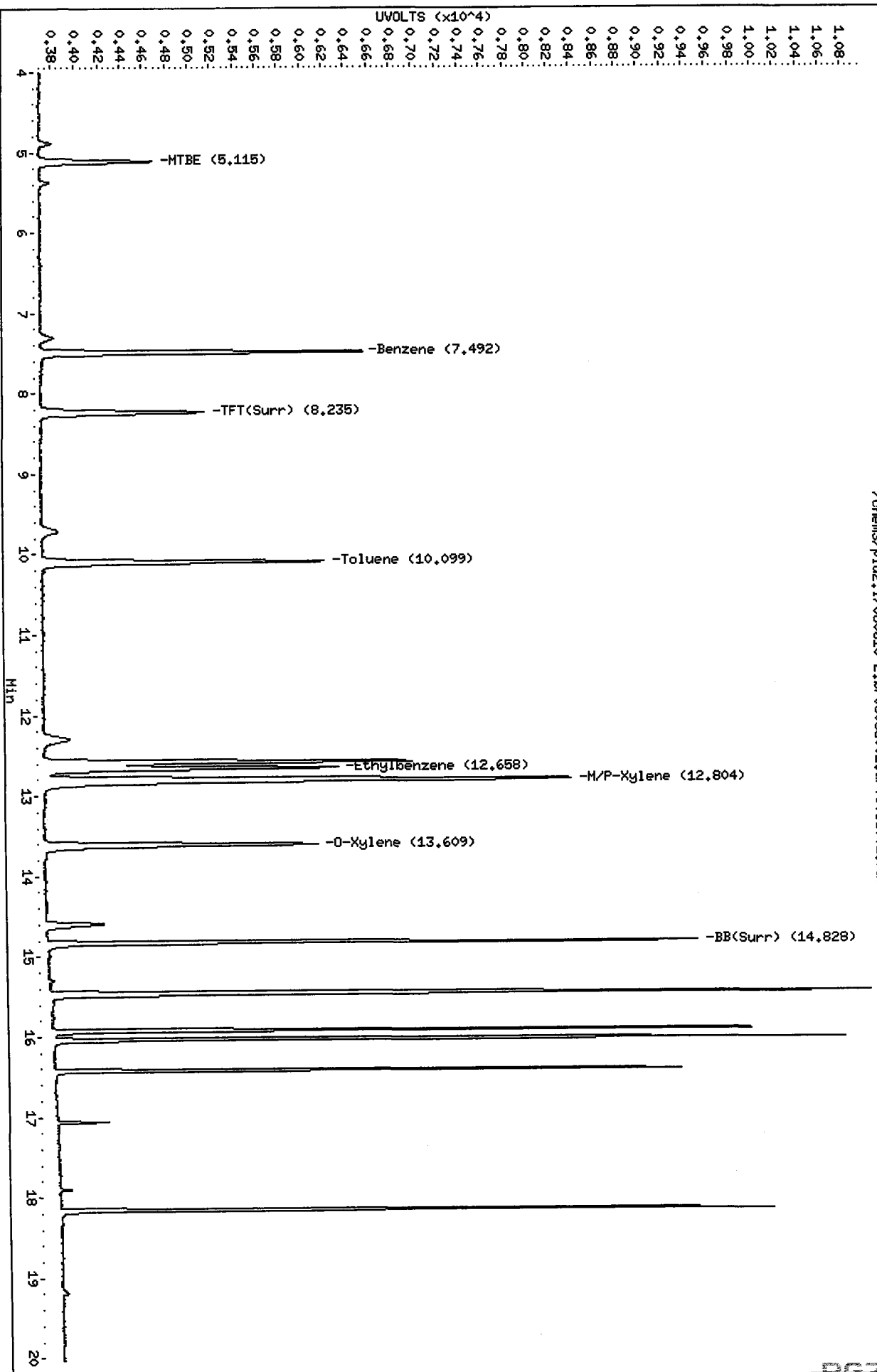
Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: HH

Column diameter: 0.18

/chem3/pid2.i/080610-2.b/0806a002.d/0806a002.cdf



MH
8/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/080610-1.b/0806a003.d
Data file 2: /chem3/pid2.i/080610-2.b/0806a003.d
Method: /chem3/pid2.i/080610-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 28-JUL-2010

ARI ID: GCAL 1
Client ID:
Injection Date: 06-AUG-2010 06:51
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.191	0.002	4238	72060	102.1	TFT(Surr)
14.803	0.001	3087	29826	102.3	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	1399696	2.426
8015B (2MP-TMB)	3181324	2.438
AKGas (nC6-nC10)	2176873	2.448
NWGas (Tol-Nap)	1448524	2.406

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.239	0.013	1403	97.6	TFT(Surr)
14.829	0.004	5746	98.8	BB(Surr)

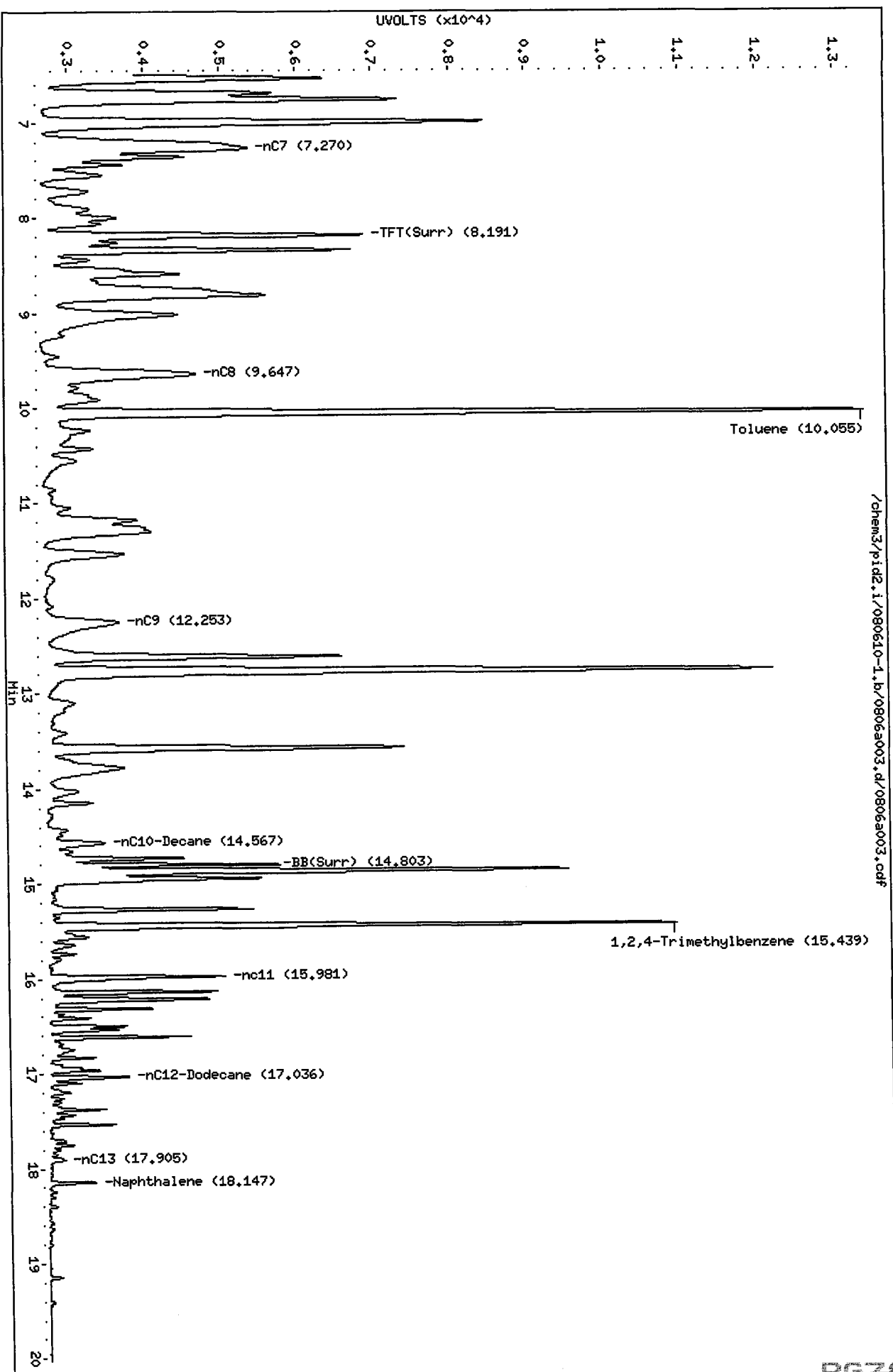
AROMATICS (PID)

RT	Shift	Response	Amount	Compound
7.494	0.011	511	4.39	Benzene
10.101	0.008	6913	66.65	Toluene
12.660	0.004	2328	20.31	Ethylbenzene
12.808	0.006	7291	75.24	M/P-Xylene
13.610	0.005	3220	31.71	O-Xylene
5.120	0.020	8621	205.33	MTBE

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

Data File: /chem3/pid2.i/080610-1.b/0806a003.d
Date : 06-01-2010 06:51
Client ID:
Sample Info: GCAL 1
Column phase: RTX 502-2 FID

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



/chem3/pid2.i/080610-1.b/0806a003.d/0806a003.cdf

Data File: /chem3/pid2.i/080610-2.b/0806a003.d

Date: 06-AUG-2010 06:51

Client ID:

Sample Info: GCAL 1

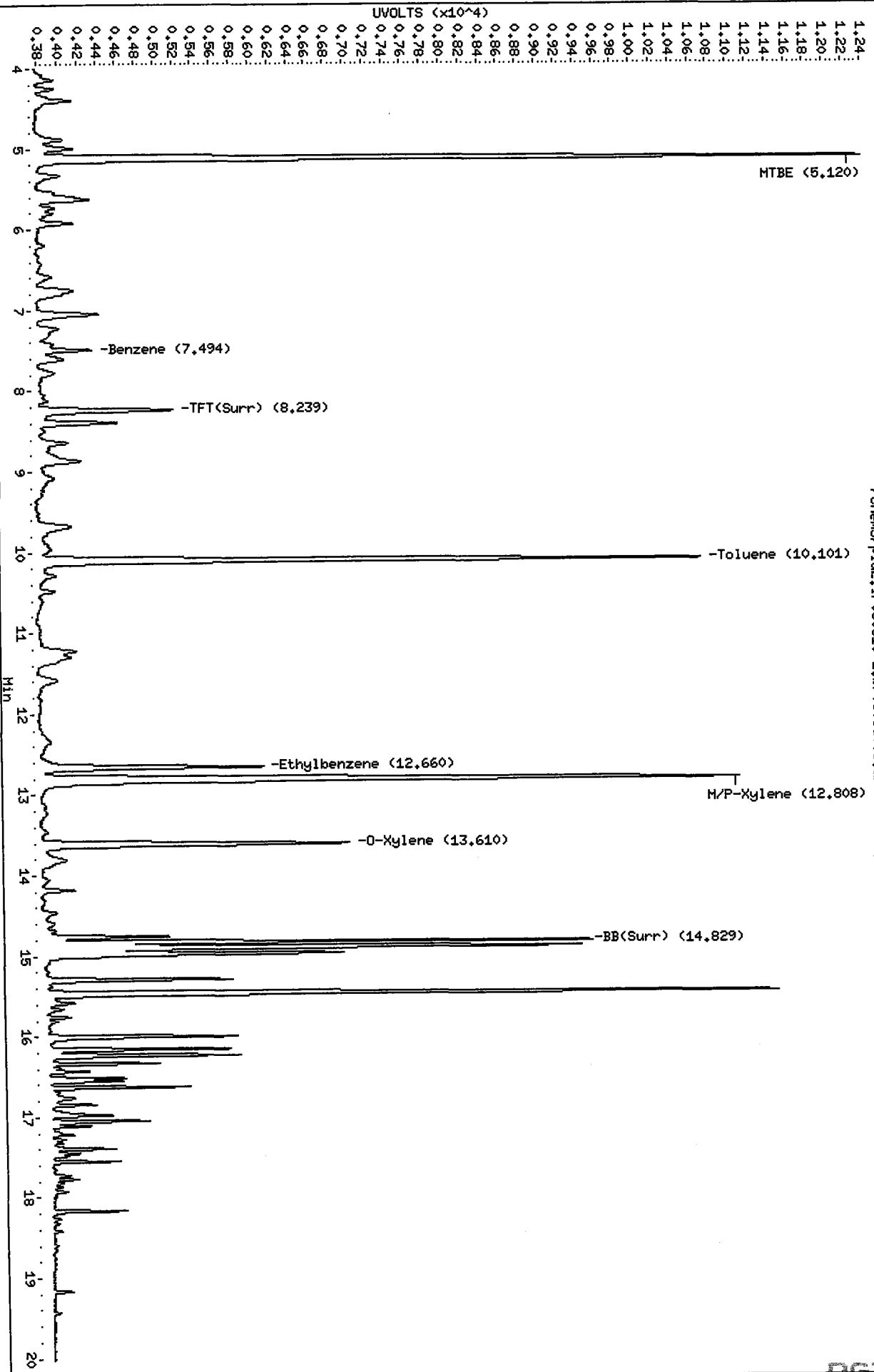
Column phase: RTX 502-2 PID

Instrument: pid2.i

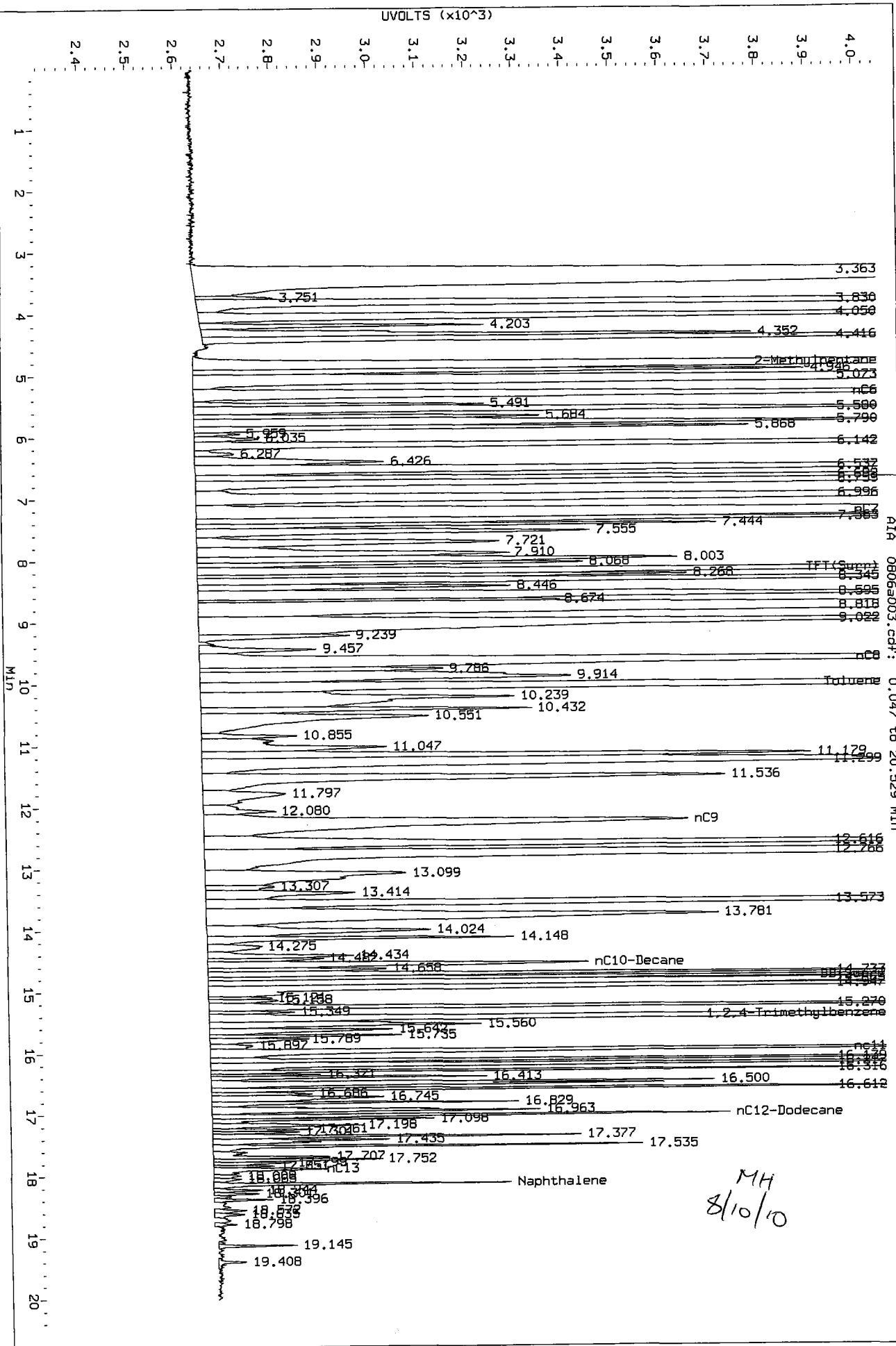
Operator: MH

Column diameter: 0.18

/chem3/pid2.i/080610-2.b/0806a003.d/0806a003.cdf

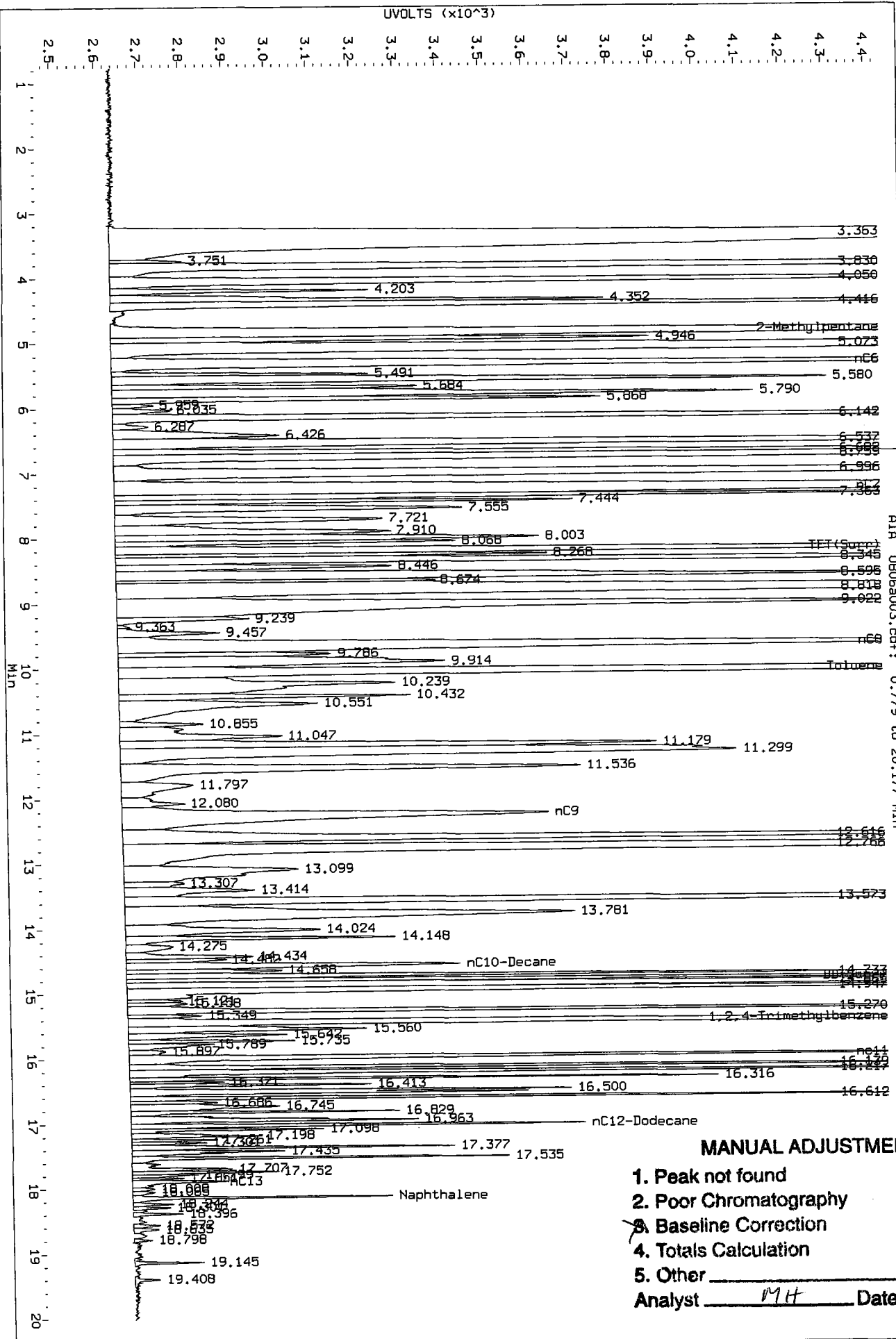


Data File: /chem3/pid2.1/080610-1.b/0806a003.d/0806a003.cdf
Injection Date: 06-AUG-2010 06:51
Instrument: pid2.1
Client Sample ID:



MH
8/10/10

Data File: /chem3/pid2.1/080610-1.b/0806003.d/0806003.cdf
 Injection Date: 06-AUG-2010 06:51
 Instrument: pid2.1
 Client Sample ID:



AIA 0806003.cdf: 0.779 to 20.177 Min

MANUAL ADJUSTMENTS

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

Analyst MH Date 8/10/10

8/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/080610-1.b/0806a004.d
Data file 2: /chem3/pid2.i/080610-2.b/0806a004.d
Method: /chem3/pid2.i/080610-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 28-JUL-2010

ARI ID: LCS0806
Client ID:
Injection Date: 06-AUG-2010 07:17
Matrix: WATER
Dilution Factor: 1.000

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	----	----	-----
8.188	0.000	4015	73783	96.7	TFT (Surr)
14.802	0.000	2944	27783	97.5	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
-----	-----	-----
WAGas (Tol-C12)	536276	0.930
8015B (2MP-TMB)	1251240	0.959
AKGas (nC6-nC10)	847990	0.954
NWGas (Tol-Nap)	557220	0.926

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
8.236	0.011	1378	95.9	TFT (Surr)
14.828	0.004	5635	96.9	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.491	0.008	197	1.69	Benzene
10.100	0.006	2721	26.23	Toluene
12.659	0.003	929	8.11	Ethylbenzene
12.808	0.005	2916	30.09	M/P-Xylene
13.610	0.005	1277	12.58	O-Xylene
5.115	0.015	3545	84.43	MTBE

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

Data File: /chem3/pid2.i/080610-1.b/0806a004.d

Date: 06-AUG-2010 07:17

Client ID:

Sample Info: LCS0806

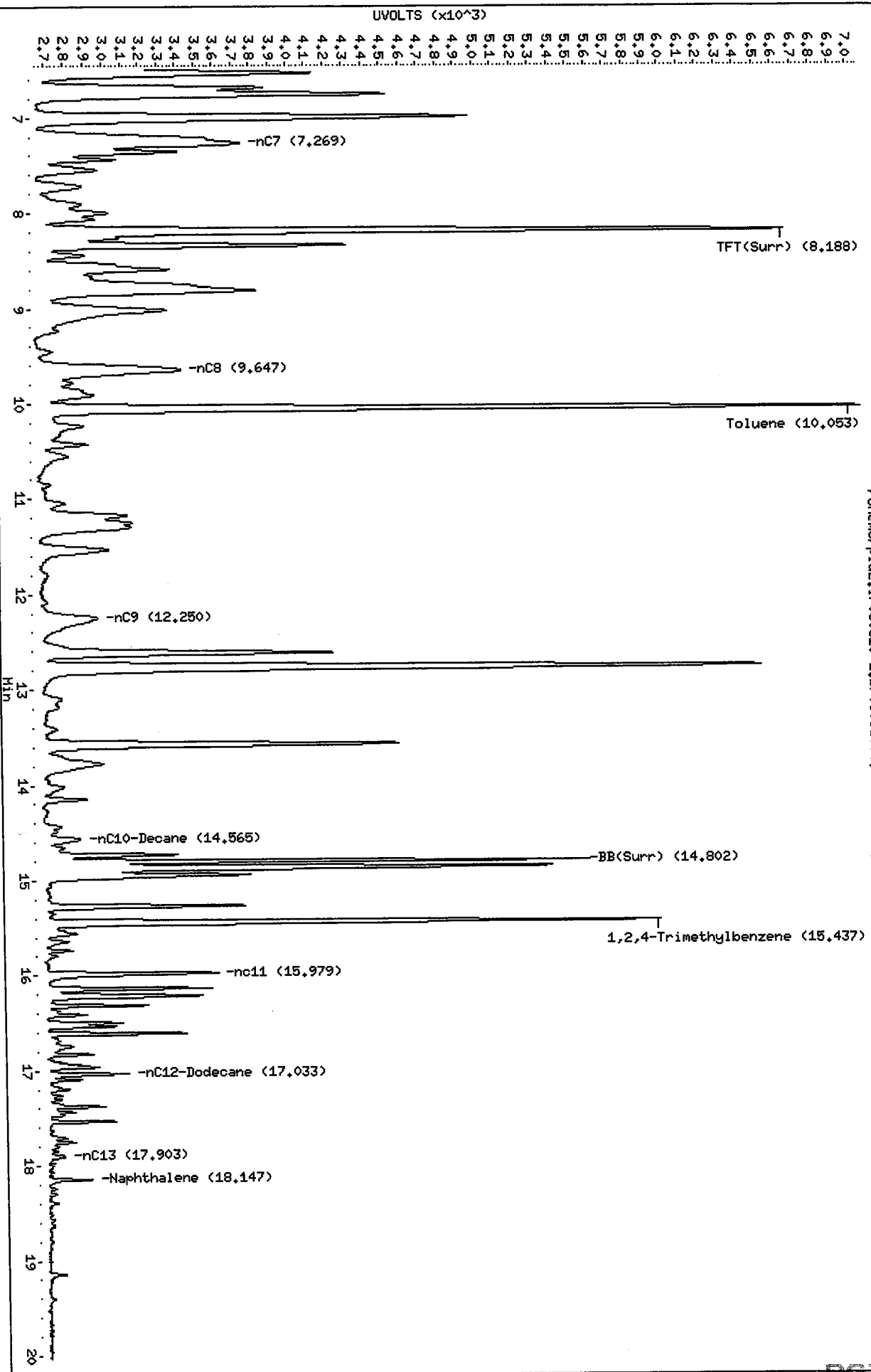
Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: MH

Column diameter: 0.18

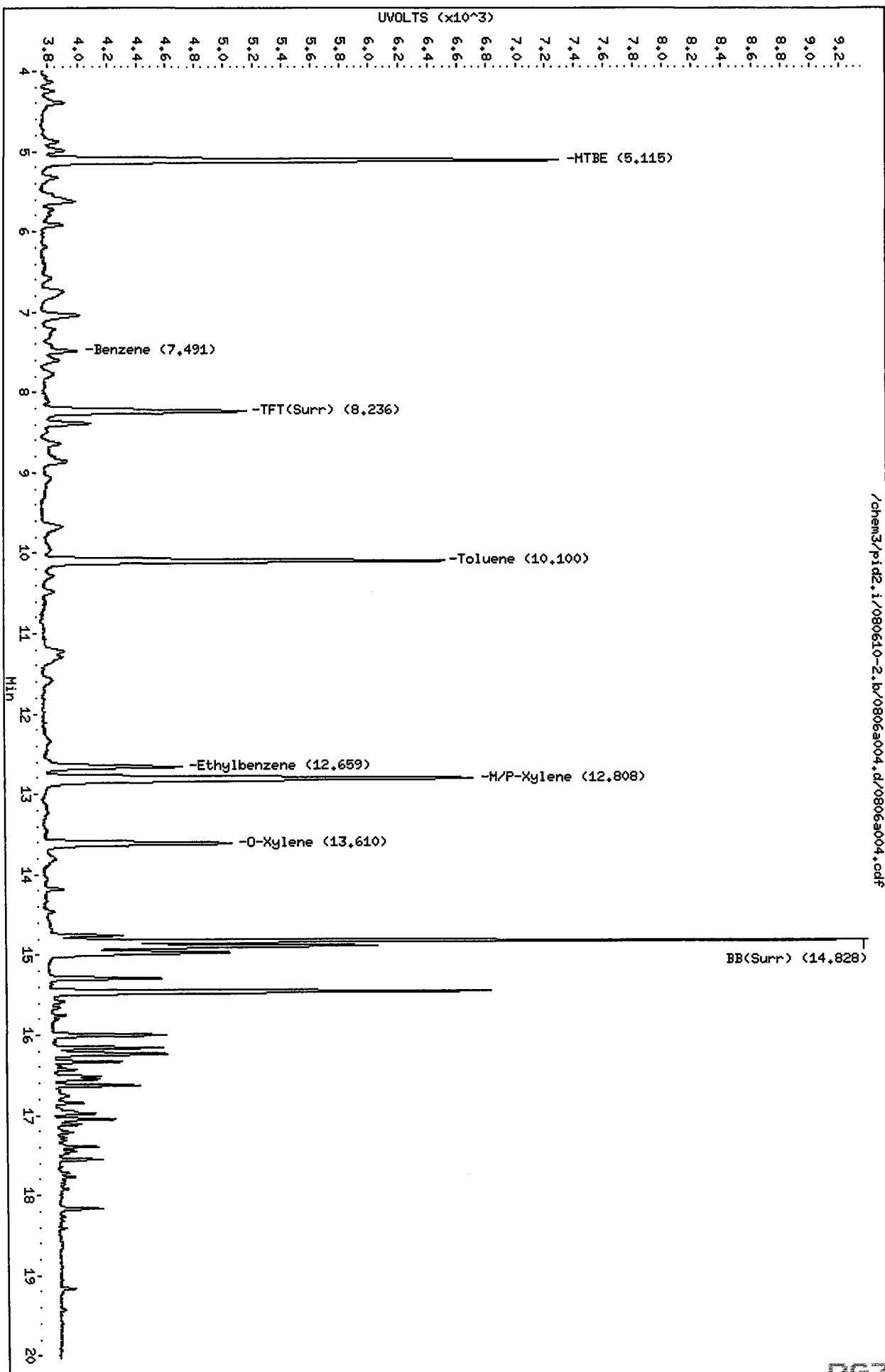
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Data File: /chem3/pid2.i/080610-2.b/0806a004.d
Date: 06-AUG-2010 07:17
Client ID:
Sample Info: LCS0806

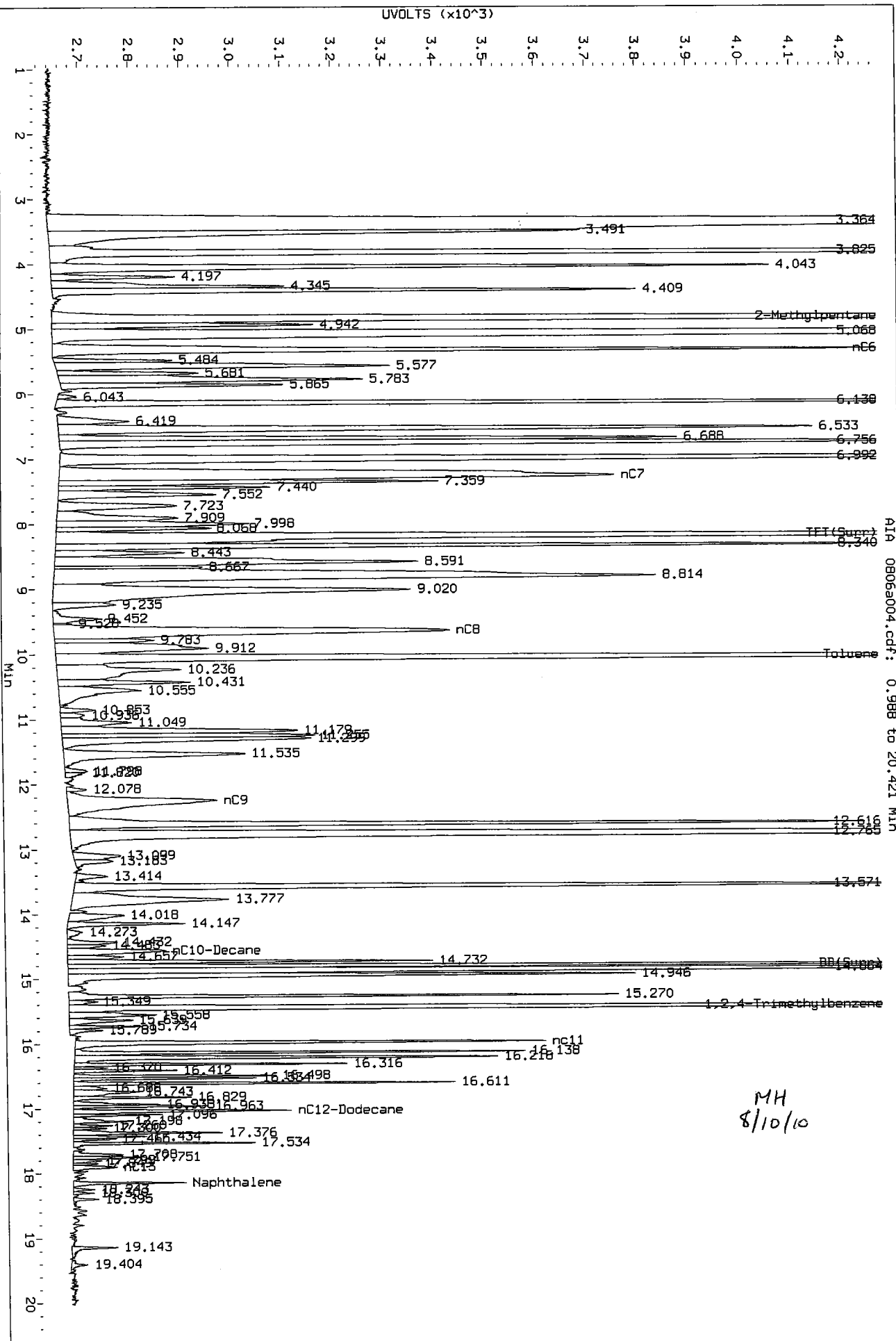
Column phases: RTX 502-2 PID

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



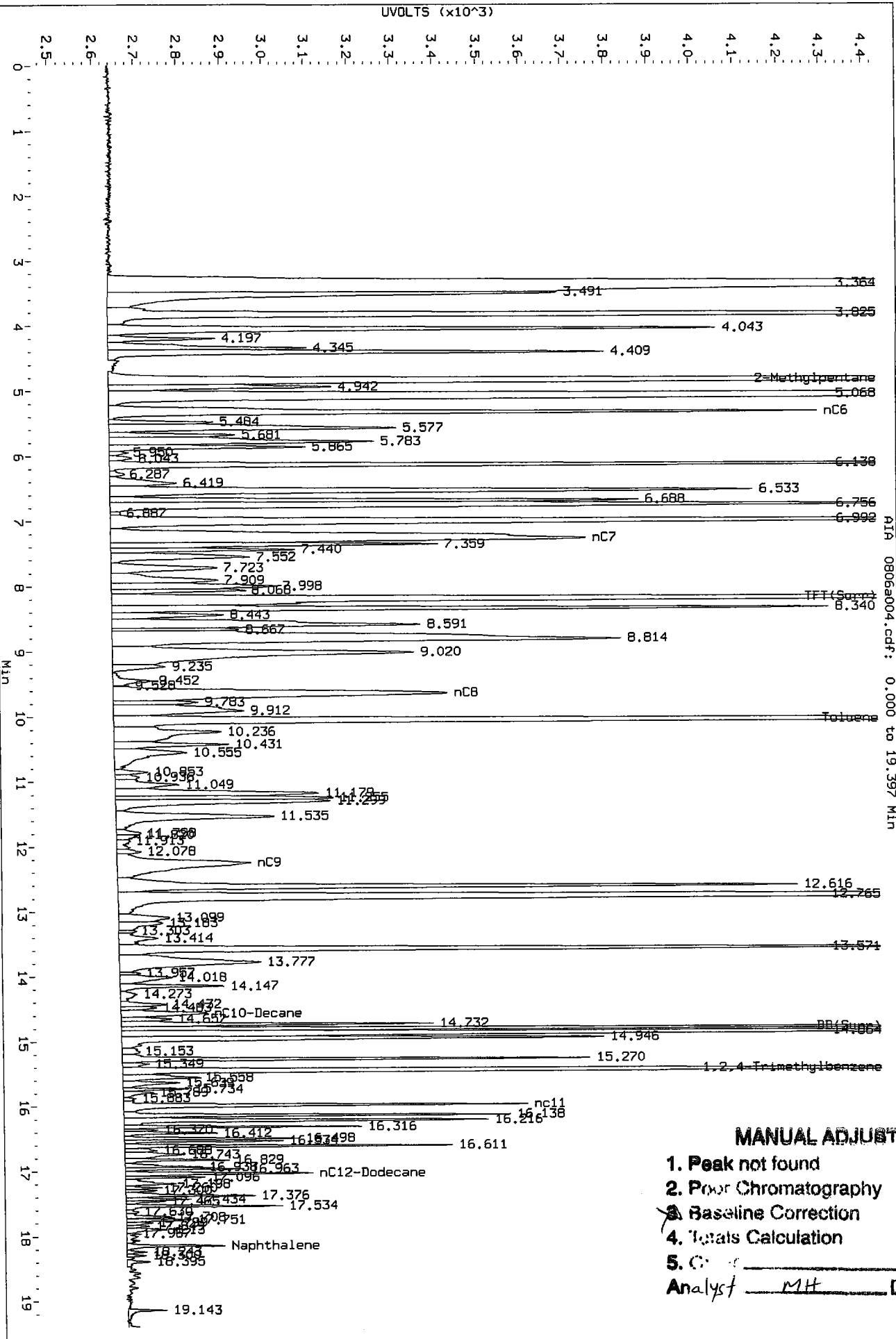
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Data File: /chem3/pid2.i/080610-1.b/0806a004.d/0806a004.cdf
 Injection Date: 06-AUG-2010 07:17
 Instrument: pid2.i
 Client Sample ID:



MH
8/10/10

Data File: /chem3/pid2.1/080610-1.b/0806a004.d/0806a004.cdf
 Injection Date: 06-AUG-2010 07:17
 Instrument: pid2.1
 Client Sample ID:



AIA 0806a004.cdf: 0.000 to 19.397 MIN

MANUAL ADJUSTMENTS

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

Analyst MH Date 8/10/10

MH
8/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/080610-1.b/0806a005.d
Data file 2: /chem3/pid2.i/080610-2.b/0806a005.d
Method: /chem3/pid2.i/080610-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 28-JUL-2010

ARI ID: LCSD0806
Client ID:
Injection Date: 06-AUG-2010 07:43
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.189	0.001	4026	73987	97.0	TFT (Surr)
14.802	0.000	2975	27927	98.6	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	551550	0.956
8015B (2MP-TMB)	1277734	0.979
AKGas (nC6-nC10)	865470	0.973
NWGas (Tol-Nap)	571891	0.950

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.237	0.012	1375	95.7	TFT (Surr)
14.828	0.004	5647	97.1	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
7.493	0.009	208	1.79	Benzene
10.100	0.007	2802	27.01	Toluene
12.659	0.003	960	8.38	Ethylbenzene
12.808	0.005	2991	30.87	M/P-Xylene
13.610	0.005	1305	12.85	O-Xylene
5.116	0.016	3630	86.46	MTBE

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

Data File: /chem3/pid2.i/080610-1.b/0806a005.d

Date: 06-AUG-2010 07:43

Client ID:

Sample Info: LCSD0806

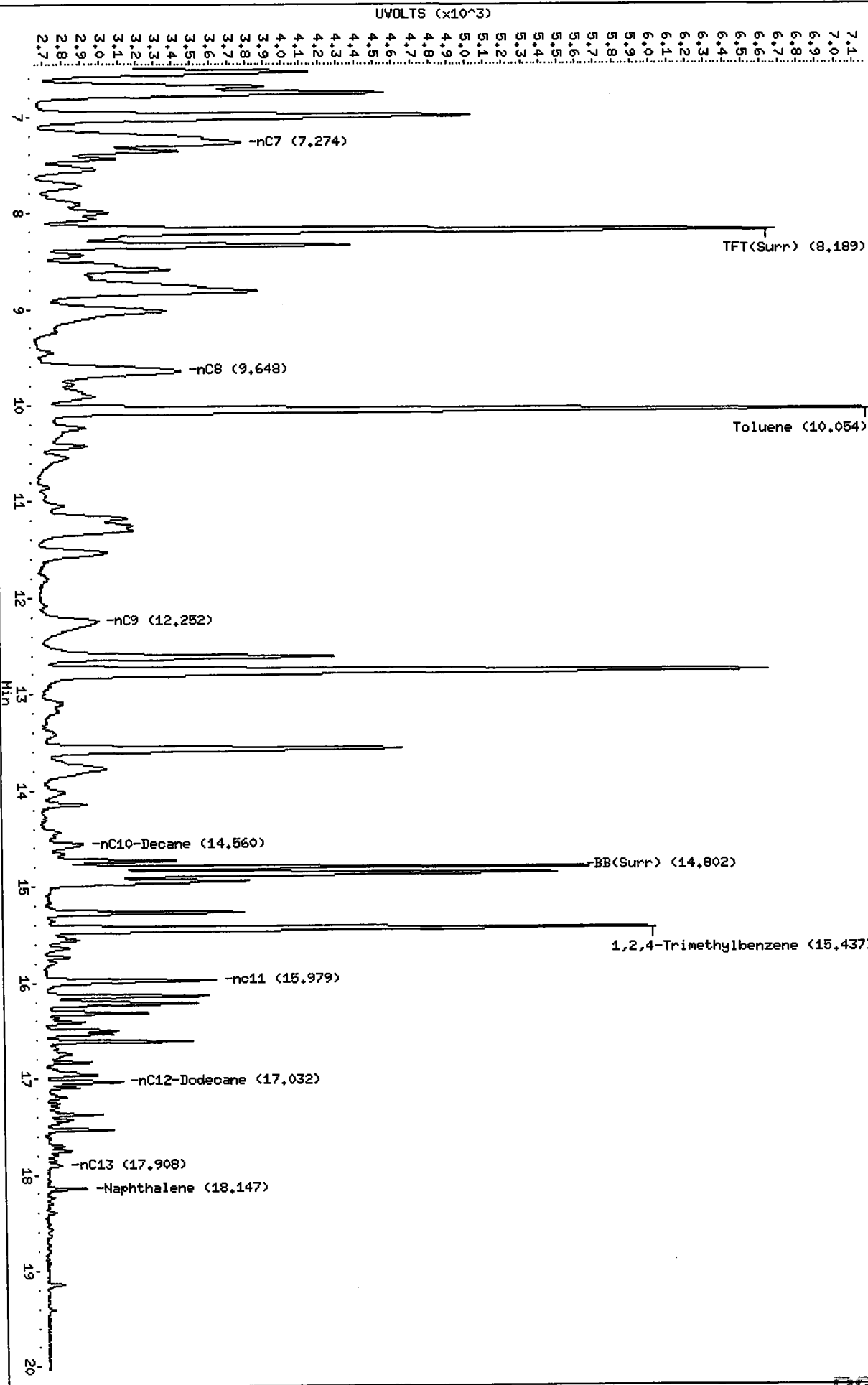
Instrument: pid2.i

Operator: HH

Column diameter: 0.18

Column phase: RTX 502-2 FID

/chem3/pid2.i/080610-1.b/0806a005.d/0806a005.cdf



Data File: /chem3/pid2.i/080610-2.b/0806a005.d

Date: 06-AUG-2010 07:43

Client ID:

Sample Info: LCSD0806

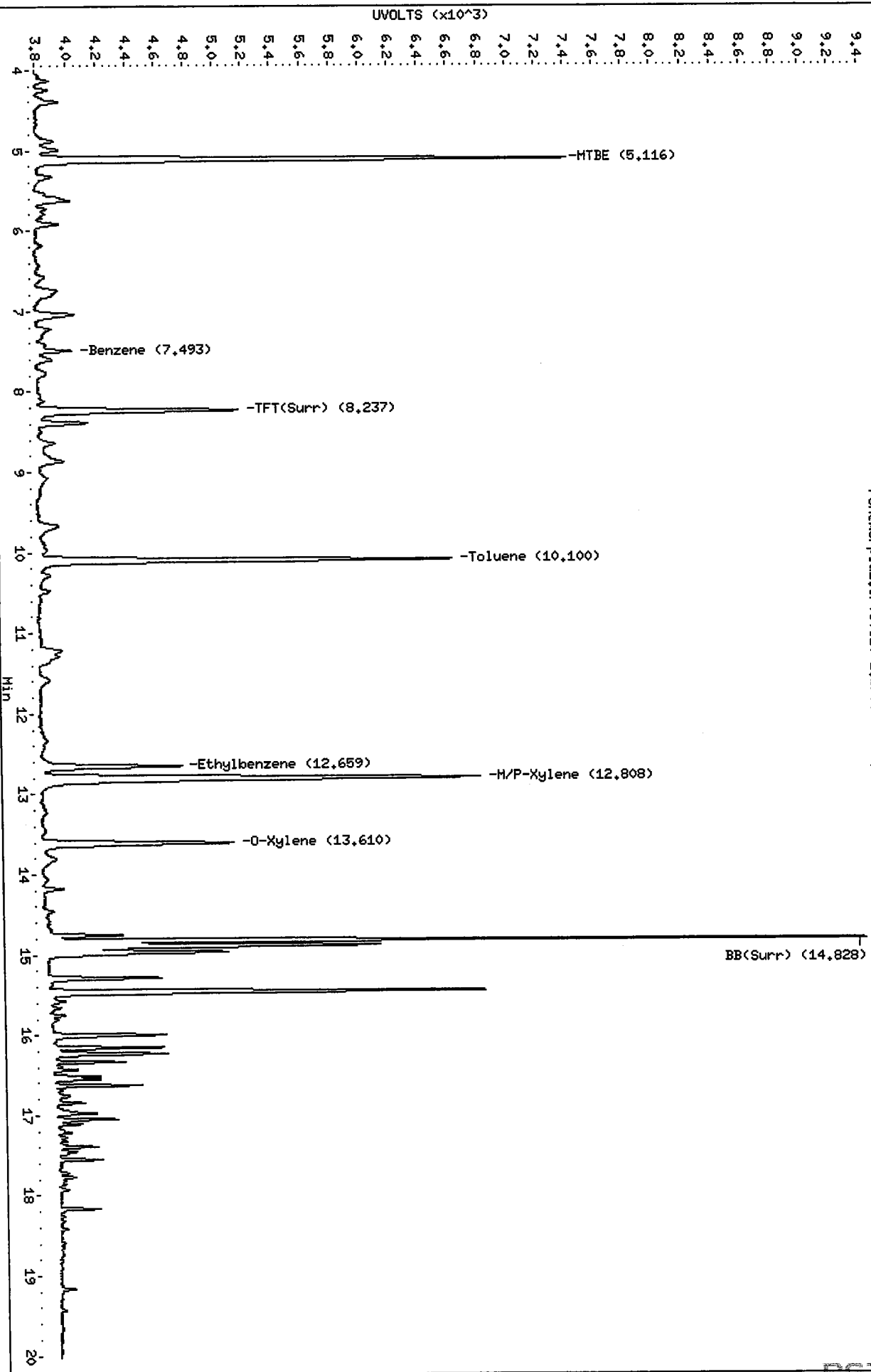
Column phase: RTX 502-2 P10

Instrument: pid2.i

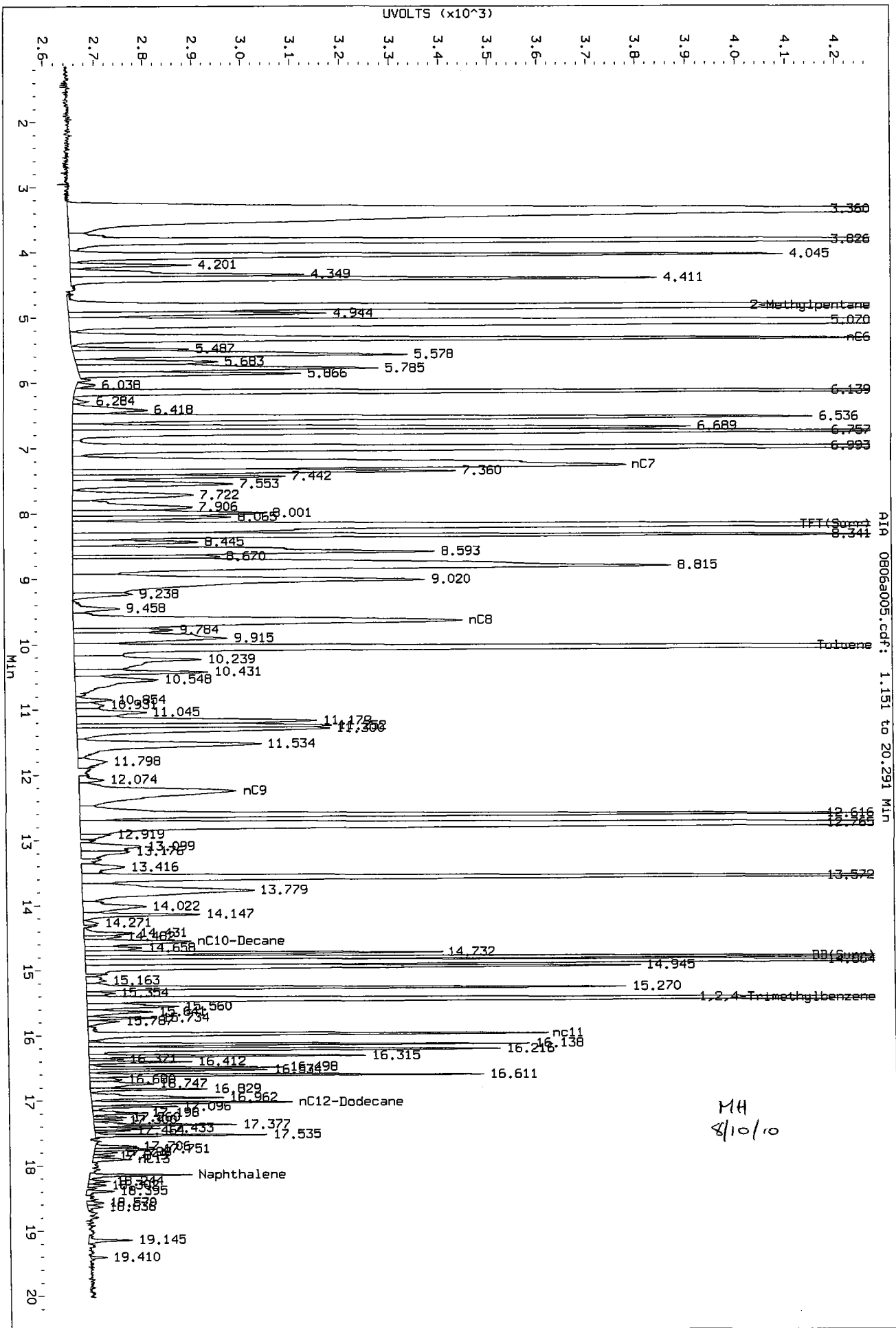
Operator: HH

Column diameter: 0.18

/chem3/pid2.i/080610-2.b/0806a005.d/0806a005.cdf

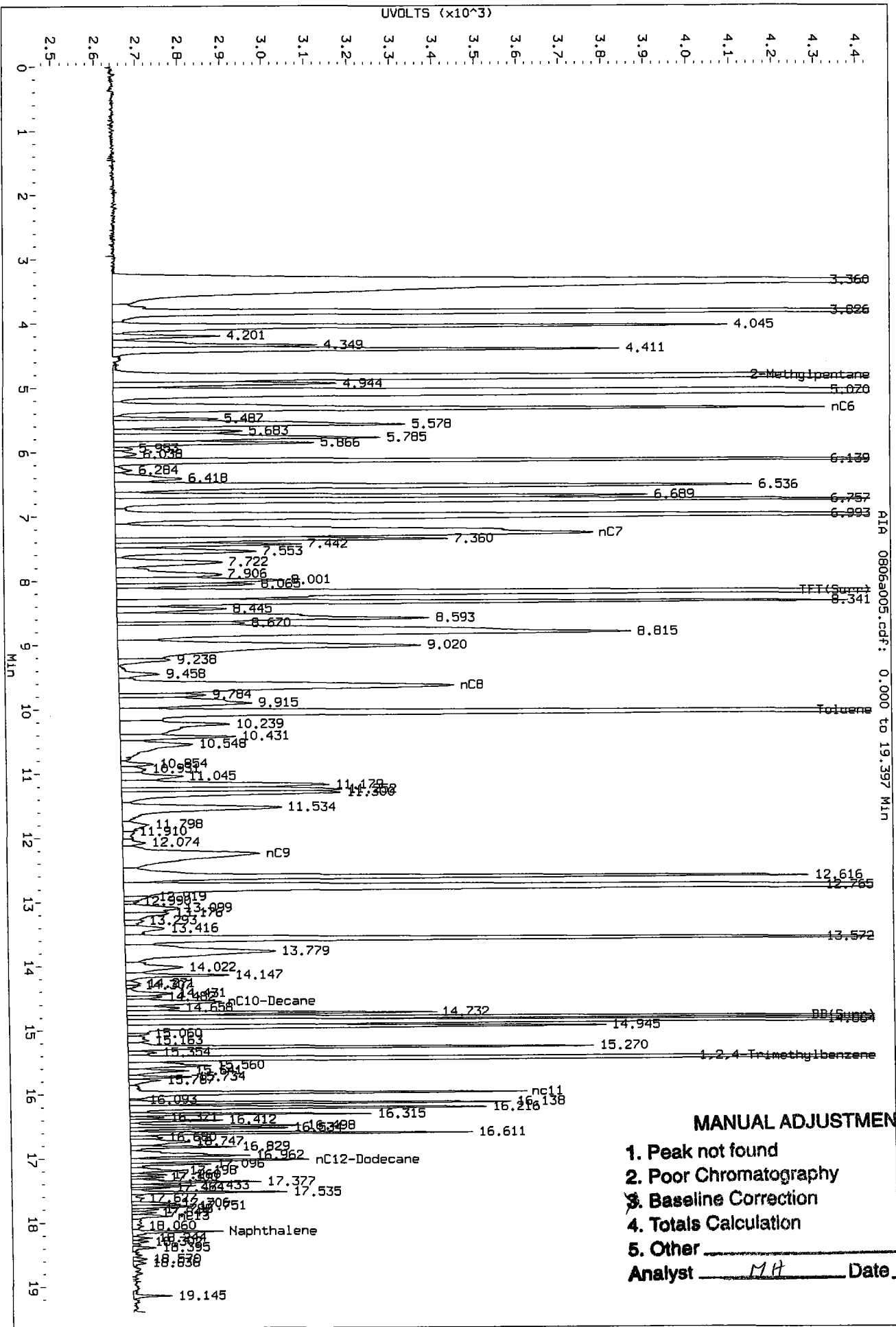


Data File: /chem3/pld2_1/080610-1.b/0806a005.d/0806a005.cdf
 Injection Date: 06-AUG-2010 07:43
 Instrument: pld2.1
 Client Sample ID:



MH
8/10/10

Data File: /chem3/pid2.1/080610-1.b/0806a005.d/0806a005.cdf
 Injection Date: 06-AUG-2010 07:43
 Instrument: pid2.1
 Client Sample ID:



AIA 0806a005.cdf: 0.000 to 19.397 Min

MANUAL ADJUSTMENTS

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

Analyst MA Date 8/10/10

8/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/080610-1.b/0806a006.d
Data file 2: /chem3/pid2.i/080610-2.b/0806a006.d
Method: /chem3/pid2.i/080610-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 28-JUL-2010

ARI ID: MB0806
Client ID:
Injection Date: 06-AUG-2010 08:09
Matrix: WATER
Dilution Factor: 1.000

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.190	0.002	3732	64955	89.9	TFT (Surr)
14.803	0.001	2799	26648	92.7	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	1	0.000
8015B (2MP-TMB)	699	0.001
AKGas (nC6-nC10)	0	0.000
NWGas (Tol-Nap)	1	0.000

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.239	0.014	1287	89.6	TFT (Surr)
14.829	0.004	5338	91.8	BB (Surr)

AROMATICICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

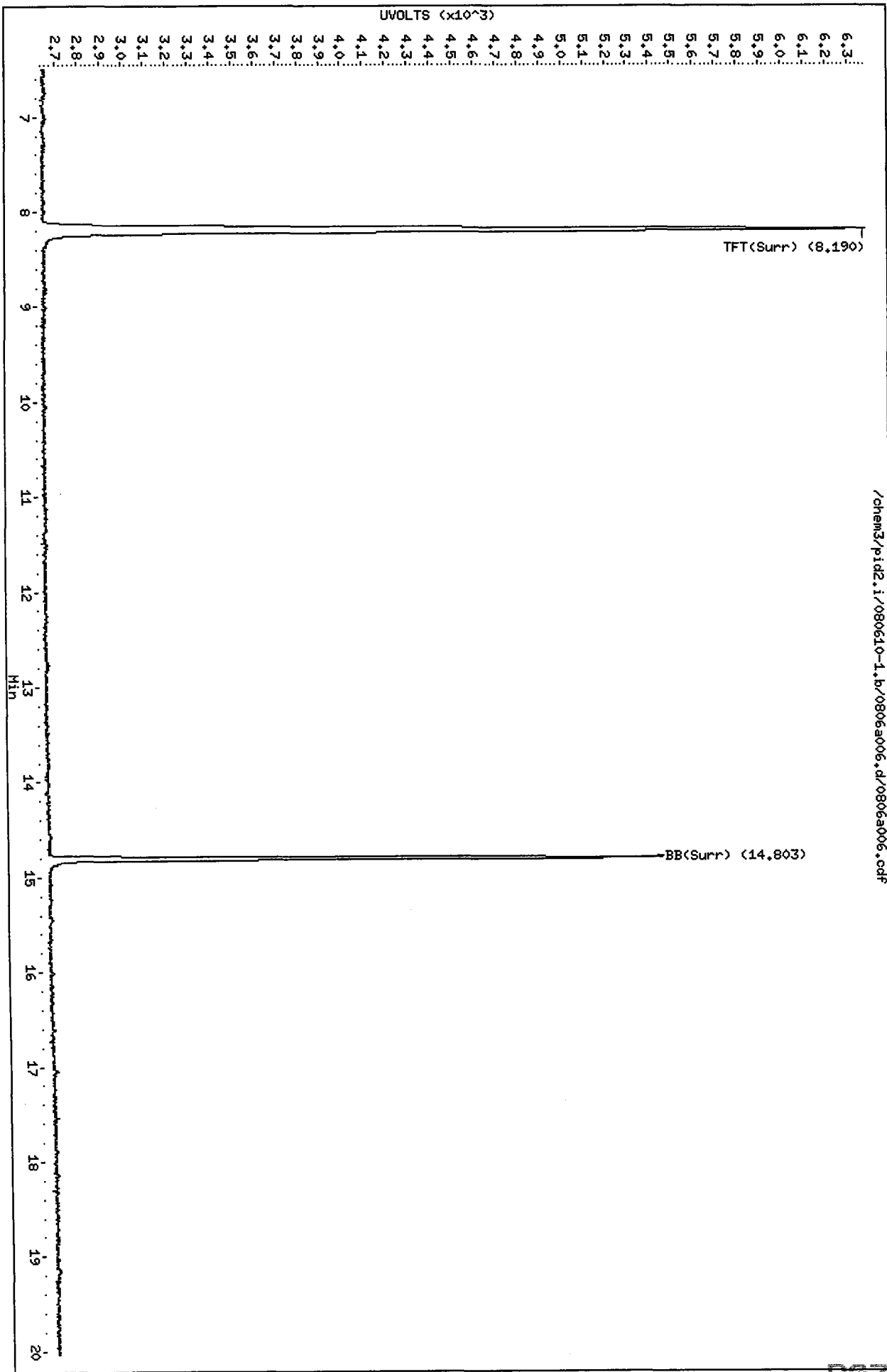
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid2.i/080610-1.b/0806a006.d
Date : 06-AUG-2010 08:09
Client ID:
Sample Info: HB0806

Column phase: RTX 502-2 FID

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

/chem3/pid2.i/080610-1.b/0806a006.d/0806a006.cdf



Data File: /chem3/pid2.i/080610-2.b/0806a006.d

Date : 06-JUL-2010 08:09

Client ID:

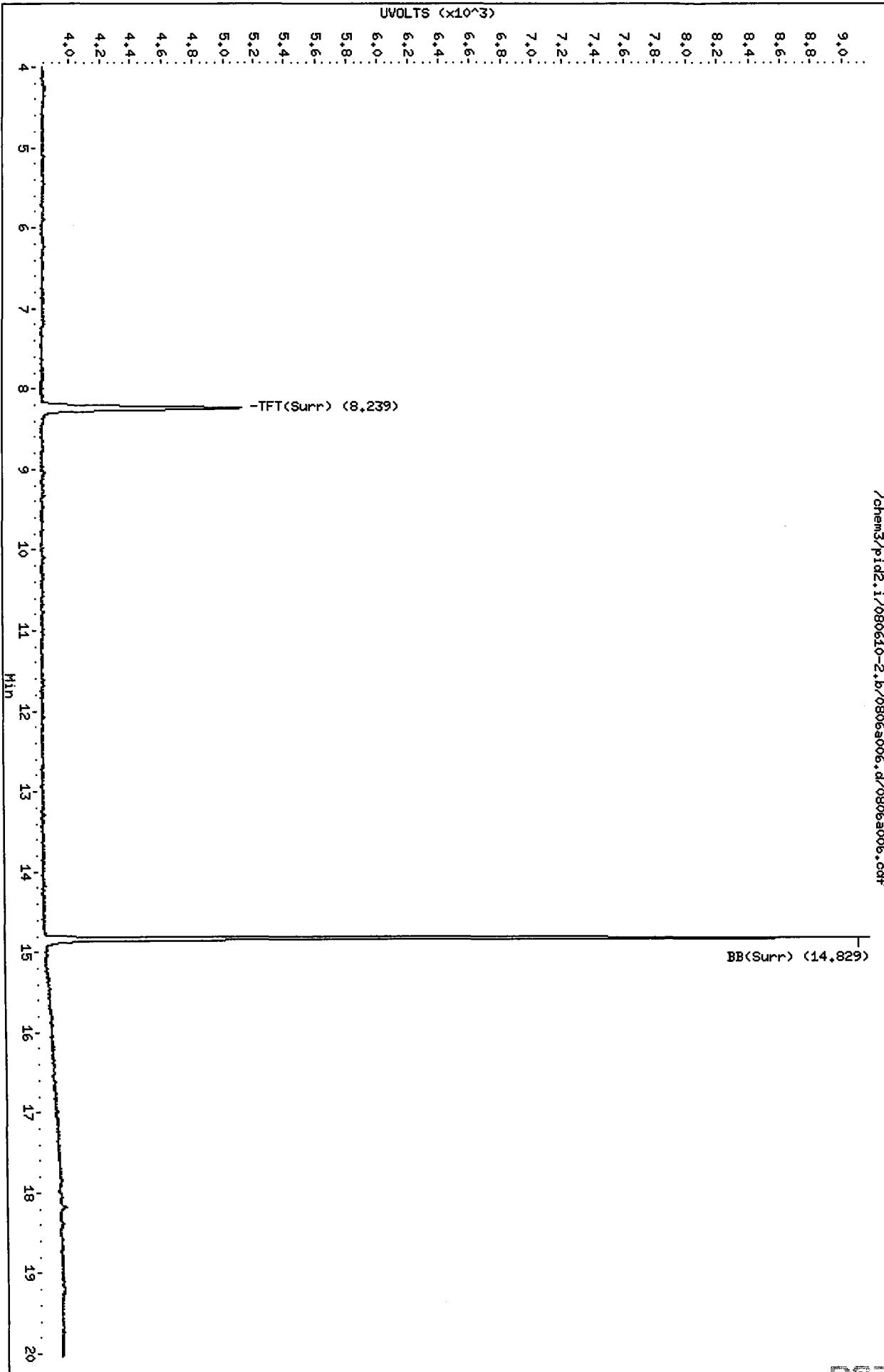
Sample Info: HB0806

Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: HH

Column diameter: 0.18



8/10/1

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/080610-1.b/0806a010.d
Data file 2: /chem3/pid2.i/080610-2.b/0806a010.d
Method: /chem3/pid2.i/080610-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 28-JUL-2010

ARI ID: RG78M
Client ID: PSB9-TB
Injection Date: 06-AUG-2010 10:23
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.192	0.003	3888	68384	93.6	TFT (Surr)
14.802	0.000	2864	27128	94.9	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	1	0.000
8015B (2MP-TMB)	2	0.000
AKGas (nC6-nC10)	1	0.000
NWGas (Tol-Nap)	1	0.000

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.240	0.015	1343	93.5	TFT (Surr)
14.828	0.004	5567	95.7	BB (Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

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

Data File: /chem3/pid2.i/080610-1.b/0806a010.d

Date : 06-AUG-2010 10:23

Client ID: PSB9-TB

Sample Info: RG78H

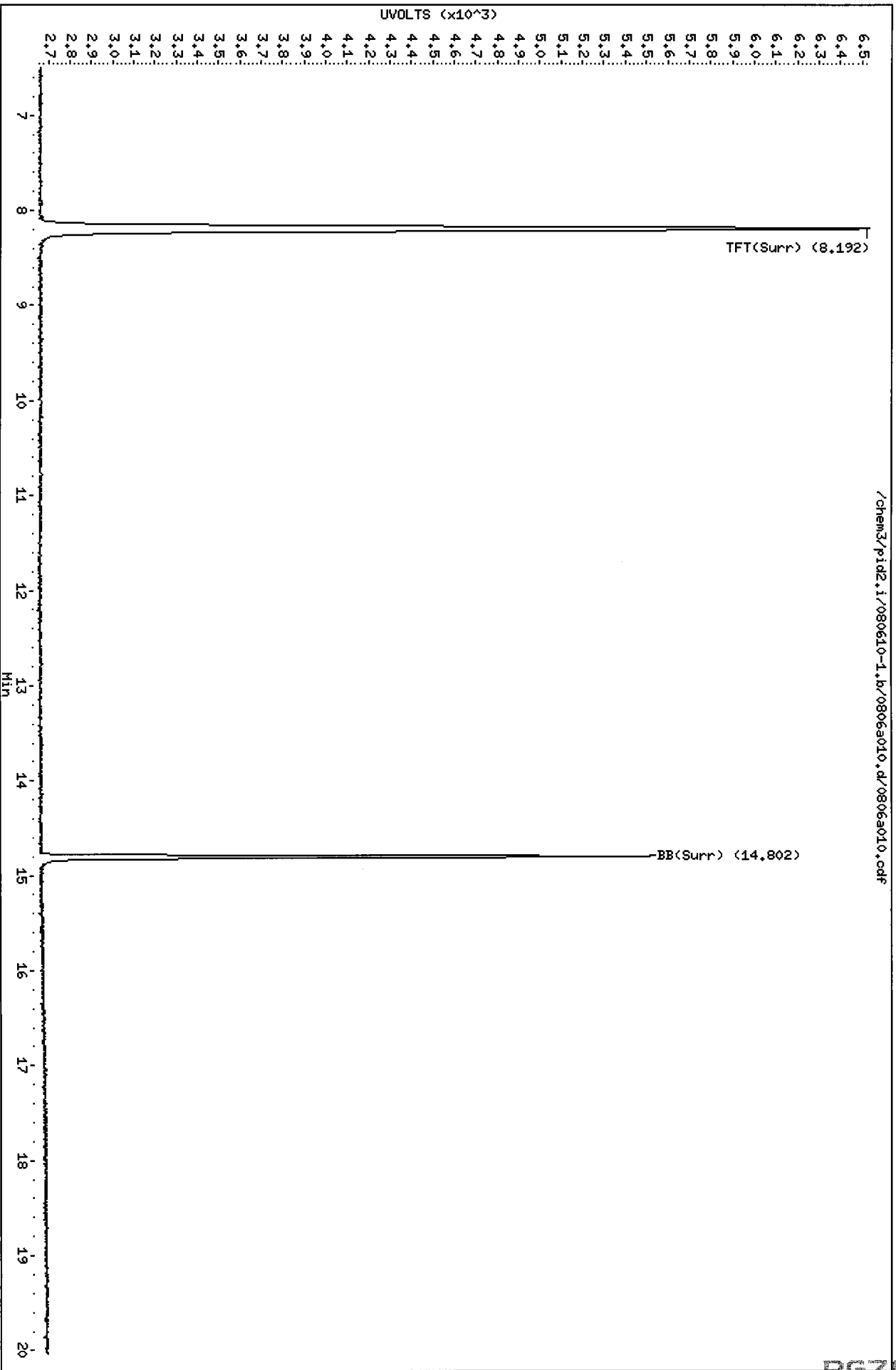
Page 1

Instrument: pid2.i

Operator: MH

Column diameter: 0.18

Column phase: RTX 502-2 FID



/chem3/pid2.i/080610-1.b/0806a010.d/0806a010.cdf

RG78 : 01464

Data File: /chem3/pid2.i/080610-2.b/0806a010.d

Date: 06-AUG-2010 10:23

Client ID: PSB9-TB

Sample Info: RG78H

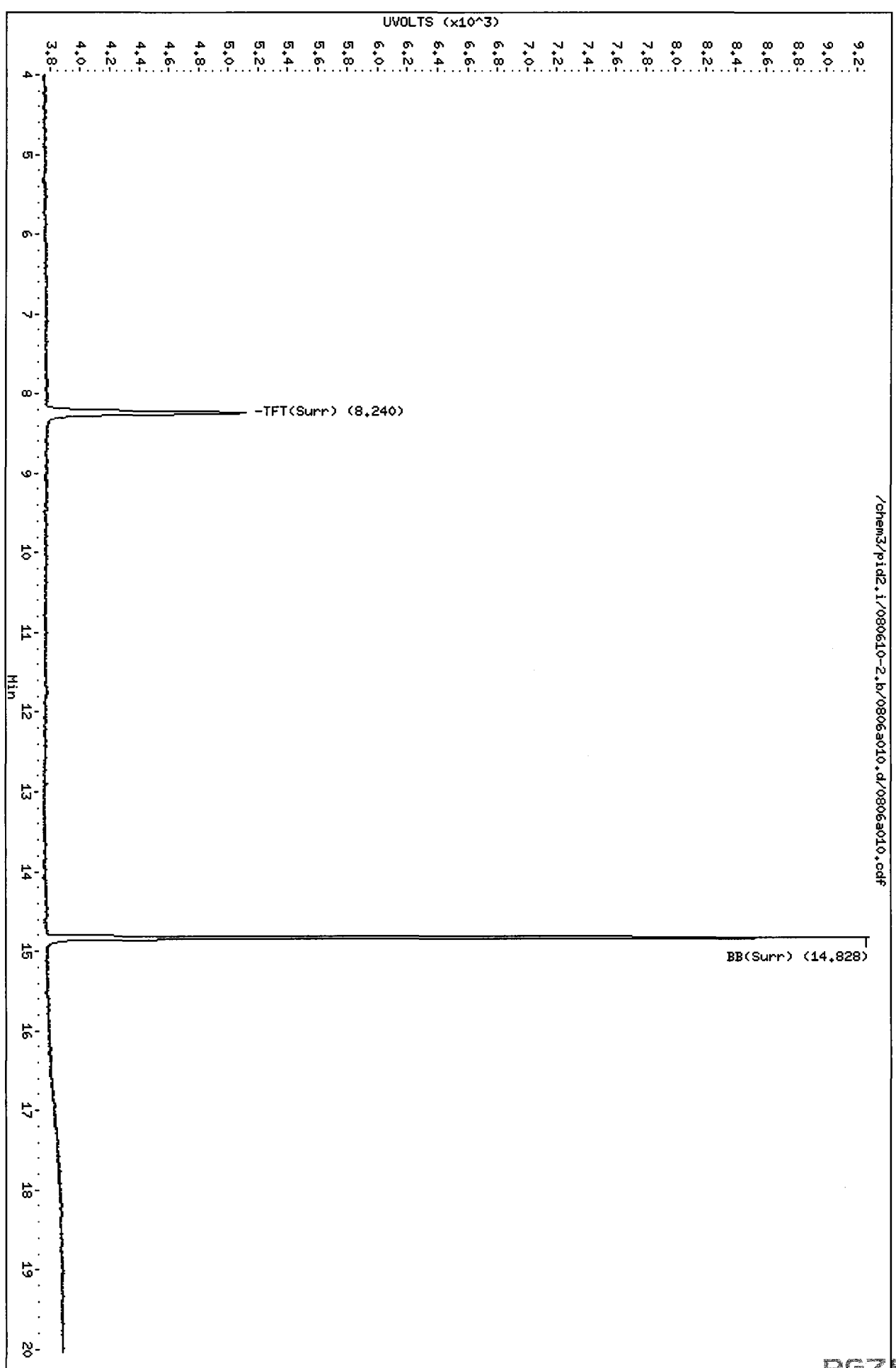
Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: MH

Column diameter: 0.18

/chem3/pid2.i/080610-2.b/0806a010.d/0806a010.cdf



8/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/080610-1.b/0806a011.d
Data file 2: /chem3/pid2.i/080610-2.b/0806a011.d
Method: /chem3/pid2.i/080610-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 28-JUL-2010

ARI ID: RG78N
Client ID: PSB10-TB
Injection Date: 06-AUG-2010 10:49
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.187	-0.001	4016	69003	96.7	TFT (Surr)
14.801	-0.001	2913	27455	96.5	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	1	0.000
8015B (2MP-TMB)	117	0.000
AKGas (nC6-nC10)	117	0.000
NWGas (Tol-Nap)	1	0.000

* Surrogate areas are subtracted from Total Area

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.235	0.010	1390	96.7	TFT (Surr)
14.827	0.003	5693	97.9	BB (Surr)

AROMATICS (PID)

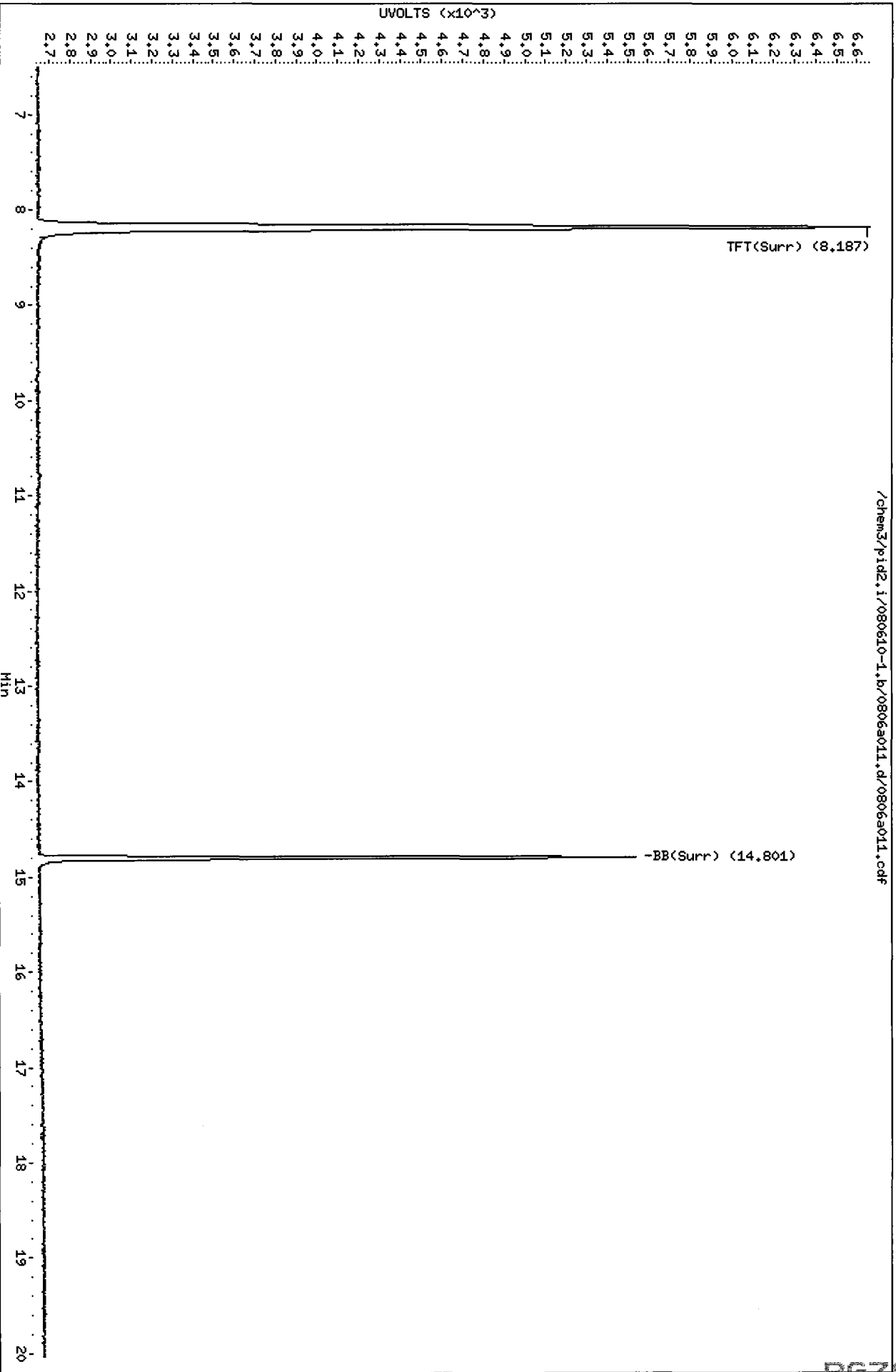
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

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

Data File: /chem3/pid2.i/080610-1.b/0806a011.d
Date: 06-AUG-2010 10:49
Client ID: PSB10-TB
Sample Info: RG78N

Column phase: RTX 502-2 FID

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



Data File: /chem3/pid2.i/080610-2.b/0806a011.d

Date: 06-AUG-2010 10:49

Client ID: PSB10-1B

Sample Info: RG78N

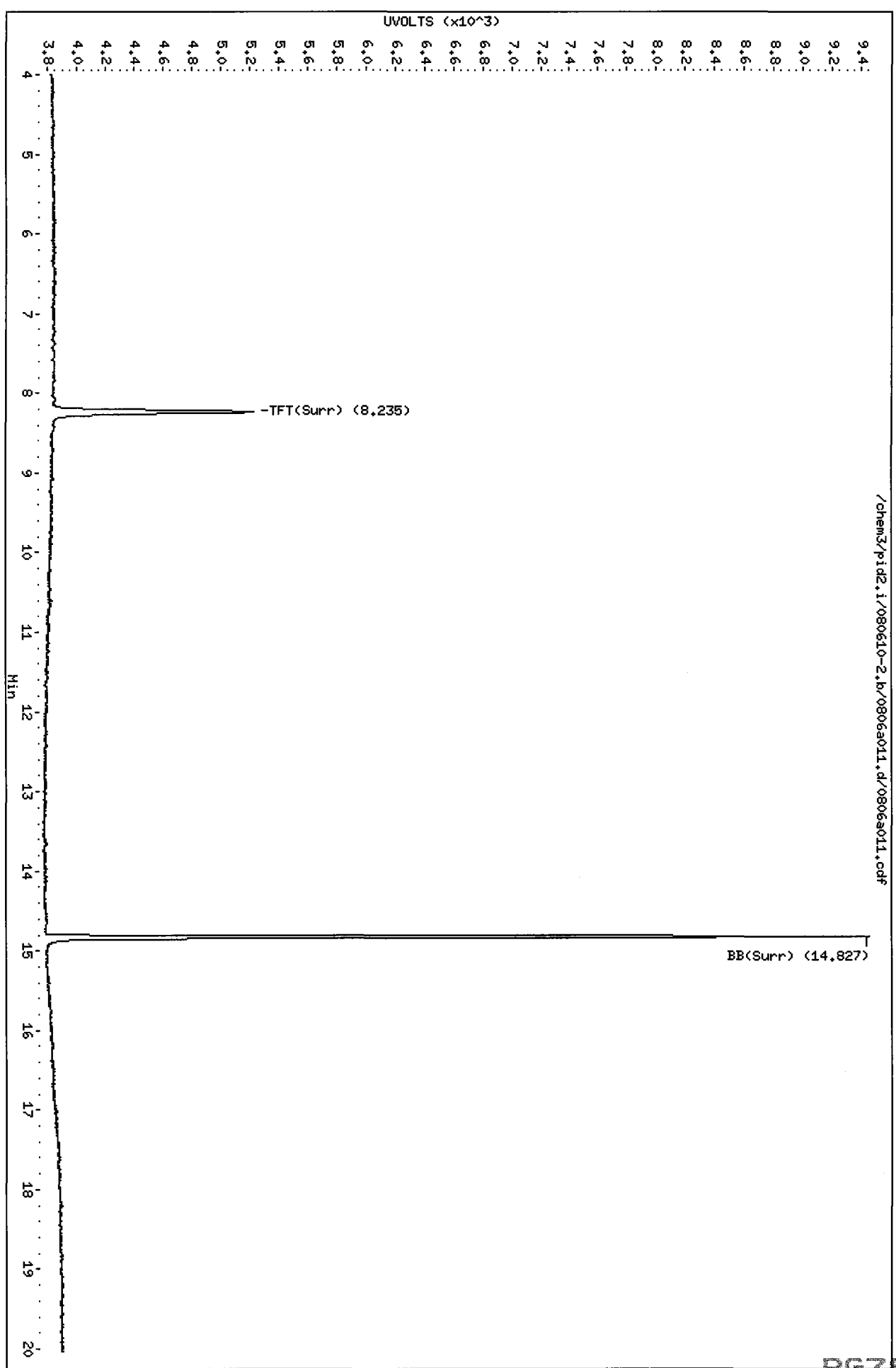
Column phase: RTX 502-2 PID

Instrument: pid2.i

Operator: MH

Column diameter: 0.18

/chem3/pid2.i/080610-2.b/0806a011.d/0806a011.cdf



M.
8/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/080610-1.b/0806a014.d
Data file 2: /chem3/pid2.i/080610-2.b/0806a014.d
Method: /chem3/pid2.i/080610-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 28-JUL-2010

ARI ID: BCAL 2
Client ID:
Injection Date: 06-AUG-2010 12:07
Matrix: WATER
Dilution Factor: 1.000

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	-----	-----
8.189	0.000	3710	65343	89.4	TFT(Surr)
14.801	-0.001	2770	26351	91.8	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
-----	-----	-----
WAGas (Tol-C12)	391896	0.679
8015B (2MP-TMB)	404607	0.310
AKGas (nC6-nC10)	371737	0.418
NWGas (Tol-Nap)	391896	0.651

* Surrogate areas are subtracted from Total Area

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	-----	-----
8.236	0.011	1305	90.8	TFT(Surr)
14.827	0.003	5362	92.2	BB(Surr)

AROMATICS (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
7.490	0.007	2667	22.90	Benzene
10.100	0.006	2253	21.72	Toluene
12.658	0.002	2354	20.54	Ethylbenzene
12.806	0.003	4019	41.48	M/P-Xylene
13.610	0.004	2134	21.02	O-Xylene
5.112	0.012	931	22.17	MTBE

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

Data File: /chem3/pid2.i/080610-1.b/0806a014.d

Date: 06-AUG-2010 12:07

Client ID:

Sample Info: BCL 2

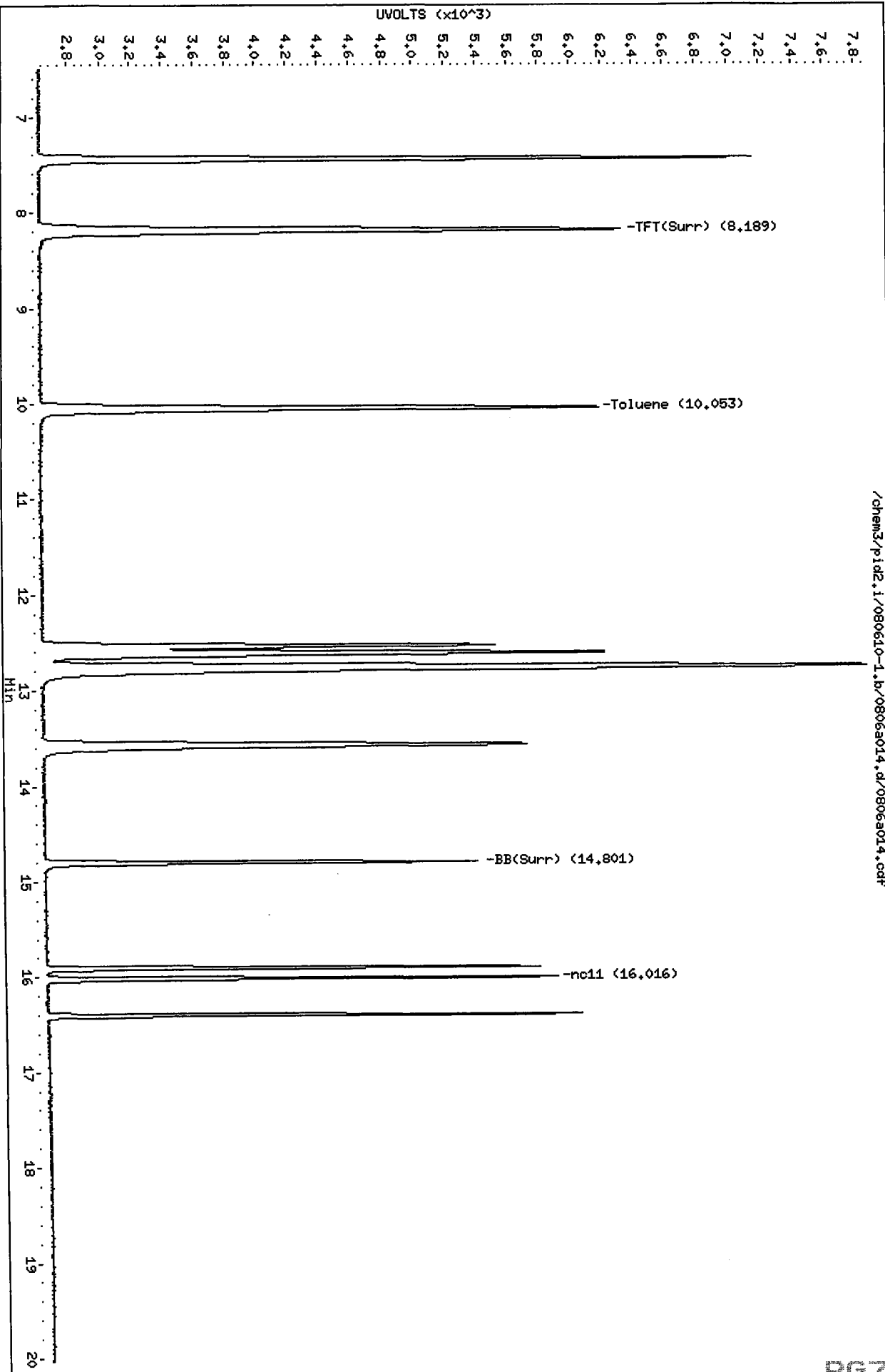
Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: MH

Column diameter: 0.18

/chem3/pid2.i/080610-1.b/0806a014.d/0806a014.cdf



Data File: /chem3/pid2.i/080610-2.b/0806a014.d

Date: 06-JUL-2010 12:07

Client ID:

Sample Info: BCAL 2

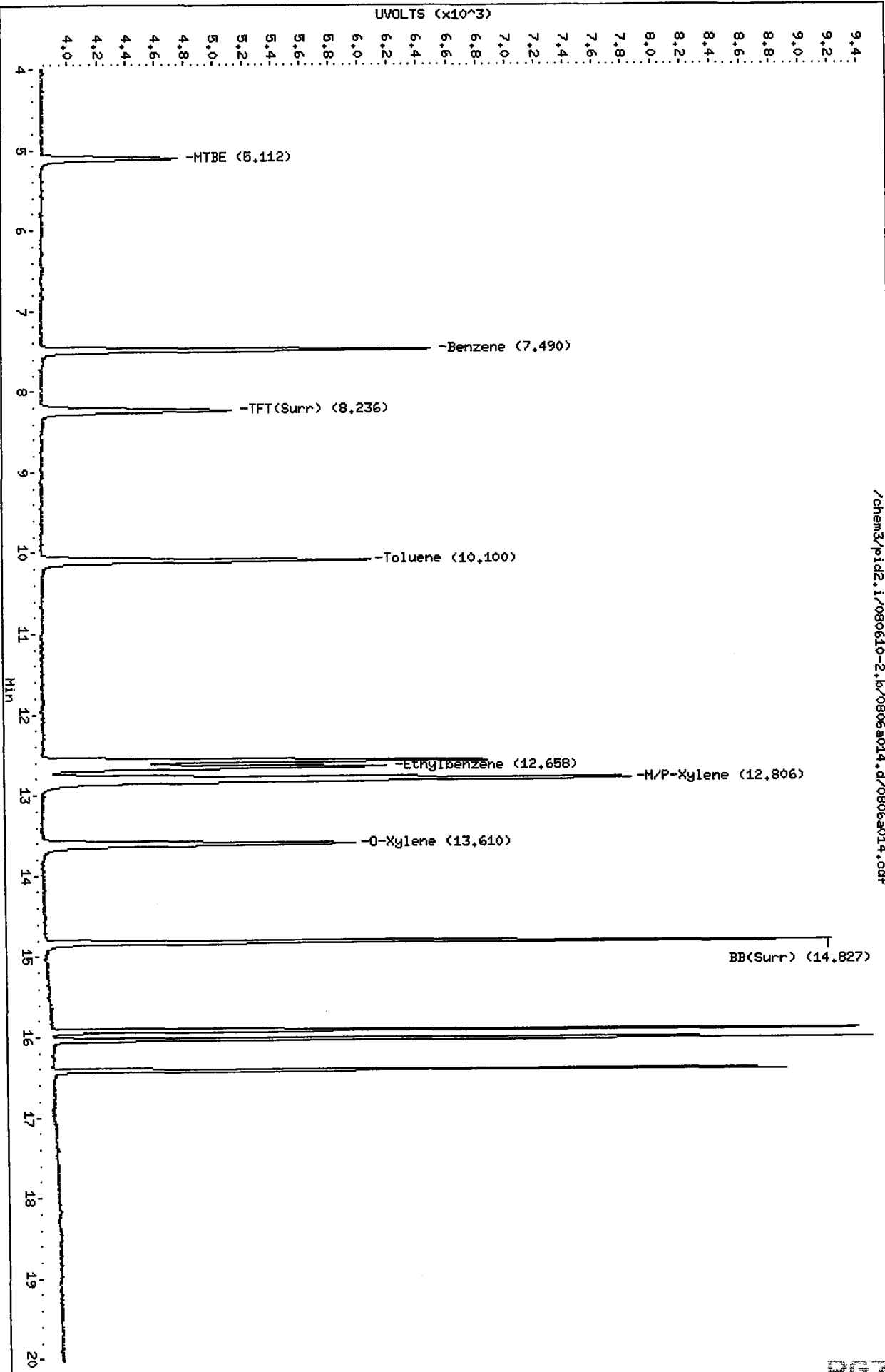
Column phases: RTX 502-2 PID

Instrument: pid2.i

Operator: MH

Column diameter: 0.18

/chem3/pid2.i/080610-2.b/0806a014.d/0806a014.cdf



MH
8/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid2.i/080610-1.b/0806a015.d
Data file 2: /chem3/pid2.i/080610-2.b/0806a015.d
Method: /chem3/pid2.i/080610-2.b/PIDB.m
Instrument: pid2.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 28-JUL-2010

ARI ID: GCAL 2
Client ID:
Injection Date: 06-AUG-2010 12:33
Matrix: WATER
Dilution Factor: 1.000

=====
FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.189	0.000	3965	70056	95.5	TFT(Surr)
14.801	-0.001	2953	29684	97.8	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	Total Area*	Amount
WAGas (Tol-C12)	1323520	2.294
8015B (2MP-TMB)	3034332	2.325
AKGas (nC6-nC10)	2081870	2.341
NWGas (Tol-Nap)	1362091	2.263

* Surrogate areas are subtracted from Total Area

=====
PID Surrogates

RT	Shift	Response	%Rec	Compound
8.236	0.011	1327	92.3	TFT(Surr)
14.827	0.002	5513	94.8	BB(Surr)

AROMATICICS (PID)

RT	Shift	Response	Amount	Compound
7.491	0.008	524	4.50	Benzene
10.099	0.006	6736	64.94	Toluene
12.658	0.002	2250	19.63	Ethylbenzene
12.809	0.006	6775	69.92	M/P-Xylene
13.610	0.005	3028	29.82	O-Xylene
5.114	0.014	8655	206.14	MTBE

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

Data File: /chem3/pid2.i/080610-1.b/0806a015.d

Date: 06-AUG-2010 12:33

Client ID:

Sample Info: GCAL 2

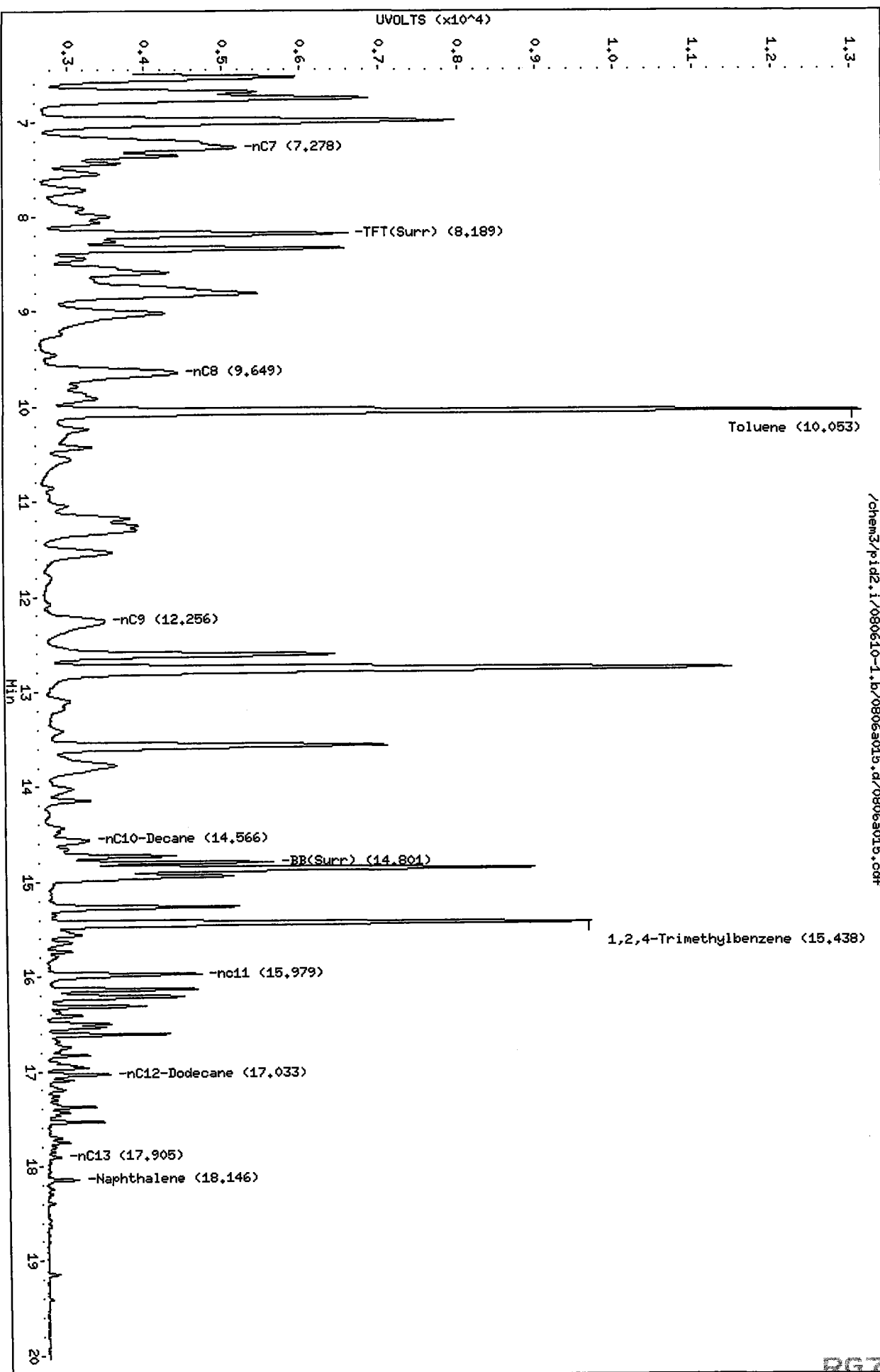
Column phase: RTX 502-2 FID

Instrument: pid2.i

Operator: MH

Column diameter: 0.18

/chem3/pid2.i/080610-1.b/0806a015.d/0806a015.cdf



Data File: /chem3/pid2.i/080610-2.b/0806a015.d

Date: 06-AUG-2010 12:33

Client ID:

Sample Info: CCL 2

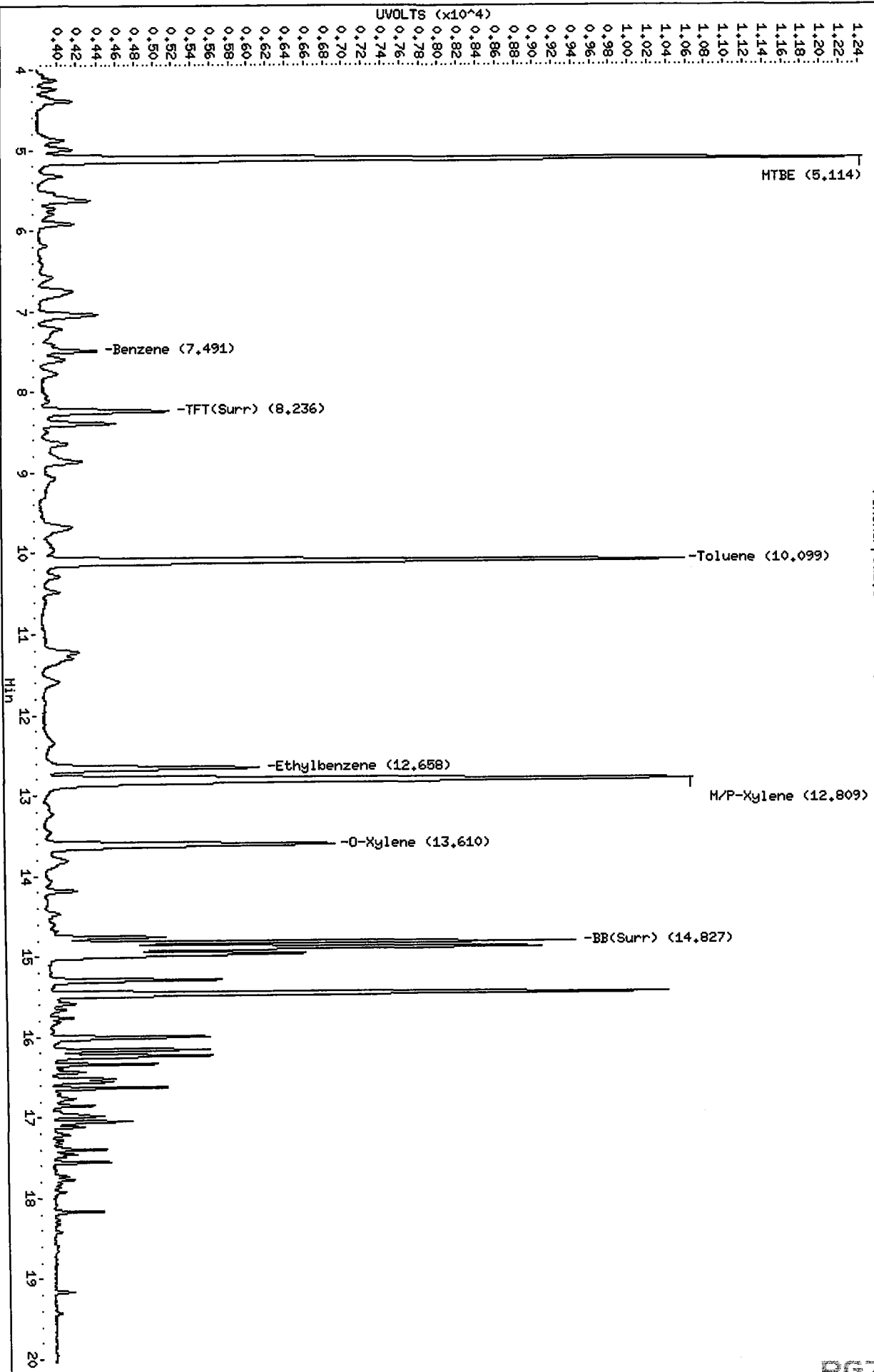
Column phase: RTX 502-2 PID

Instrument: pid2.i

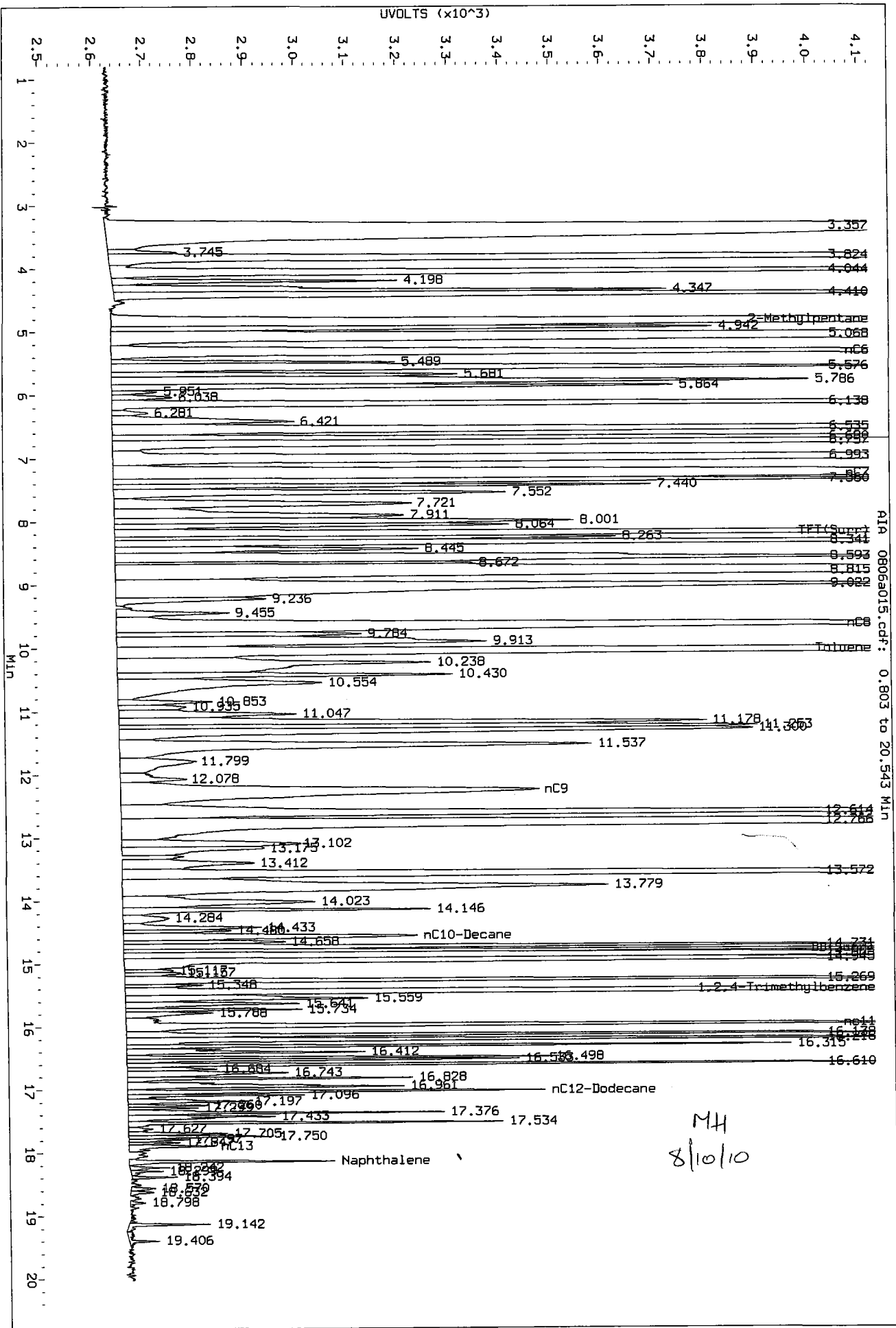
Operator: MH

Column diameter: 0.18

/chem3/pid2.i/080610-2.b/0806a015.d/0806a015.cdf

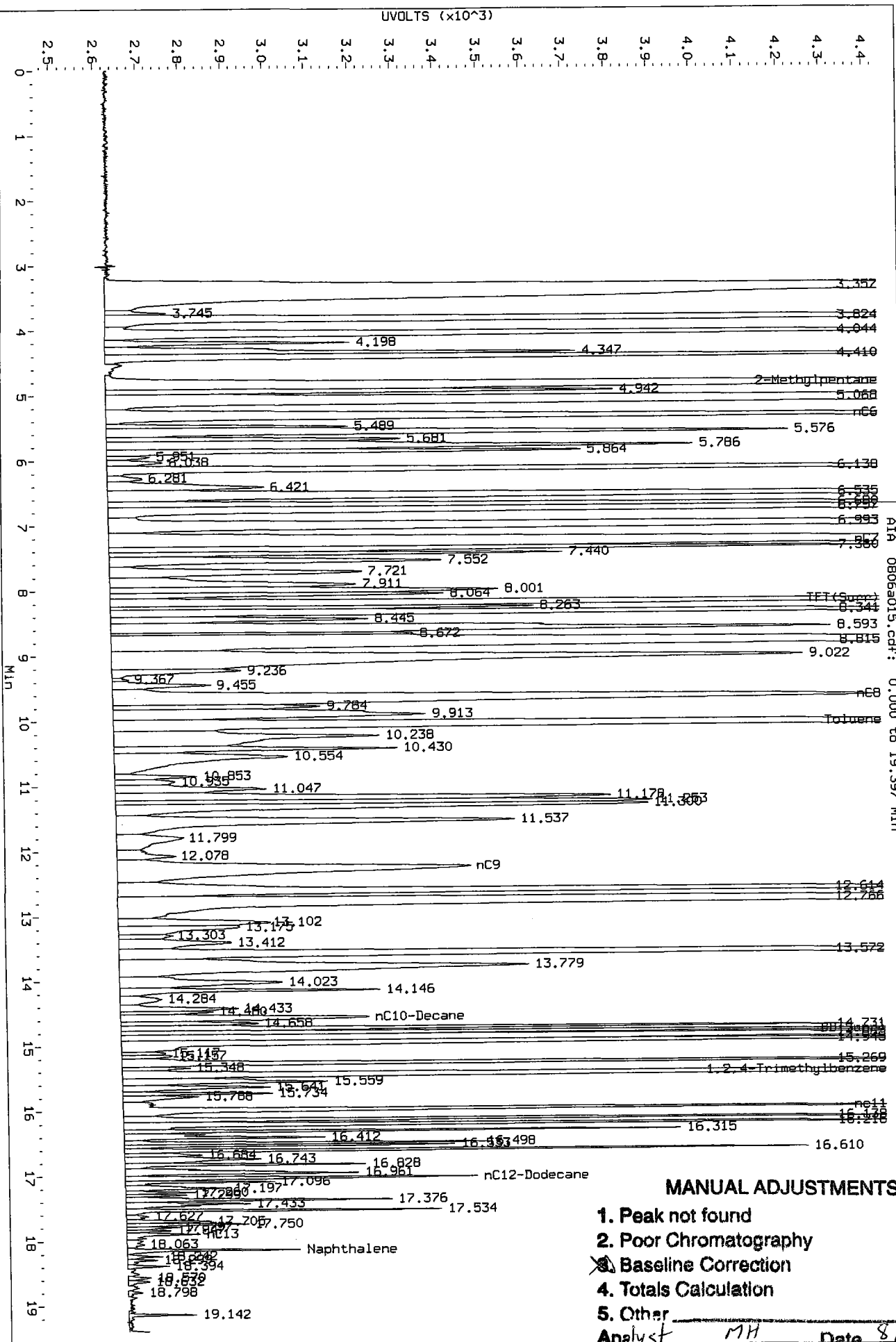


Data File: /chem3/pid2_1/080610-1.b/0806a015.d/0806a015.cdf
 Injection Date: 06-AUG-2010 12:33
 Instrument: pid2.1
 Client Sample ID:



MH
8/10/10

Data File: /chem3/pid2.1/080610-1.b/0806a015.d/0806a015.cdf
 Injection Date: 06-AUG-2010 12:33
 Instrument: pid2.1
 Client Sample ID:



AIA 0806a015.cdf: 0.000 to 19.397 Min

MANUAL ADJUSTMENTS

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

Analyst MH Date 8/10/10

Analytical Resources Inc.: Organics Instrument Log
PID-3 HP 5890 Series II - Serial No.: 2728A-13336

Date: 8/9/10 Analysis: NUTPH6/BETA Analyst: MH
 GC Program: BETA Column No: 832213 Column Type: RTX502-2
 Instrument Tune (.U or .CT.): _____ EM Voltage: _____
 Calibration File: _____ Curve Date: 6/29/10 BETA
7/28/10 GC-S

IS/SS	Ical/Ccal	LCS/ICV
VW648-3	VW635-1	VW647-2
	VW644-3	
	VW647-2	

Time	Filename	LabID	ClientID	Vial#	pH	DF
1 0639	0809a001.d	RINSE			1	
2 0703	0809a002.d	RT+BCAL 1			1	
3 0728	0809a003.d	GCAL 1			1	
4 0752	0809a004.d	LCS0809			1	
5 0817	0809a005.d	LCS0809			1	
6 0841	0809a006.d	MB0809			1	
7 0940	0809a007.d	RH05K	FTATW01-8		0.00	
8 1005	0809a008.d	RH30A	ICON TYPE 17		0.00	
9 1030	0809a009.d	RH30B	ICON TYPE 2-G		0.00	
10 1054	0809a010.d	RH30C	ICON TYPE 1-G		0.00	
11 1119	0809a011.d	RINSE			1	
12 1144	0809a012.d	BCAL 2			1	
13 1208	0809a013.d	GCAL 2			1	
14 1233	0809a014.d	RH30B	ICON TYPE 2-G		0.00	
15 1258	0809a015.d	RG58E	PSB22-17-19-072910		0.00	
16 1322	0809a016.d	RG58F	PSB22-19-20-072910		0.00	
17 1347	0809a017.d	RG58K	PSB23-14-16.5-07291		0.00	
18 1412	0809a018.d	RG58L	PSB23-16.5-19-07291		0.00	
19 1436	0809a019.d	RG58R	PSB24-14-16-072910		0.00	
20 1501	0809a020.d	RG58S	PSB24-16-17-072910		0.00	
21 1525	0809a021.d	RG78A	PSB9A-11-13.5-07301		0.00	
22 1550	0809a022.d	RG78B	PSB9A-1.5-2-073010		0.00	

(Large handwritten scribble)
 MH
 8/10/10

Maintenance / Comments

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

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



VOA Analyst Notes / Corrective Action Log

ARI Project ID: RG58/RG78 Client ID: Floyd/Snyder

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

Parameter(s): NWTP46/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: 7/28/10 6-5
6/29/10 BETA Analysis Start Date: 8/9/10

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

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

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

BETA Compounds in Gcal 3 & Gcal 4 used to validated BETA at the end of 2nd & 3rd bracket. Gcal 3 & Gcal 4 OK for BETA

Additional Details on Reverse: Yes / No

Analyst: [Signature] Date: 8/11/10

Reviewer: _____ Date: _____

8/10/10 Mn

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100809-2.b/0809a002.d ARI ID: RT+BCAL 1
Data file 2: /chem3/pid3.i/20100809-1.b/0809a002.d Client ID:
Method: /chem3/pid3.i/20100809-1.b/PIDB.m Injection Date: 09-AUG-2010 07:03
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	-----	-----
8.409	0.000	7250	85109	100.7	TFT(Surr)
14.888	0.000	4324	35188	100.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	-----	-----	-----
WAGas Tol-C12 (10.17 to 17.11)	827807	1008315	1.218
8015B 2MP-TMB (4.93 to 15.58)	1664107	1243055	0.747
AK101 nC6-nC10 (5.41 to 14.53)	1131784	868786	0.768
NWTPHG Tol-Nap (10.17 to 18.18)	882029	1065748	1.208

M Indicates manual integration within range

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

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	-----	-----
8.408	0.000	20561	93.5	TFT(Surr)
14.887	0.000	42952	94.2	BB(Surr)

SW8021 (PID)

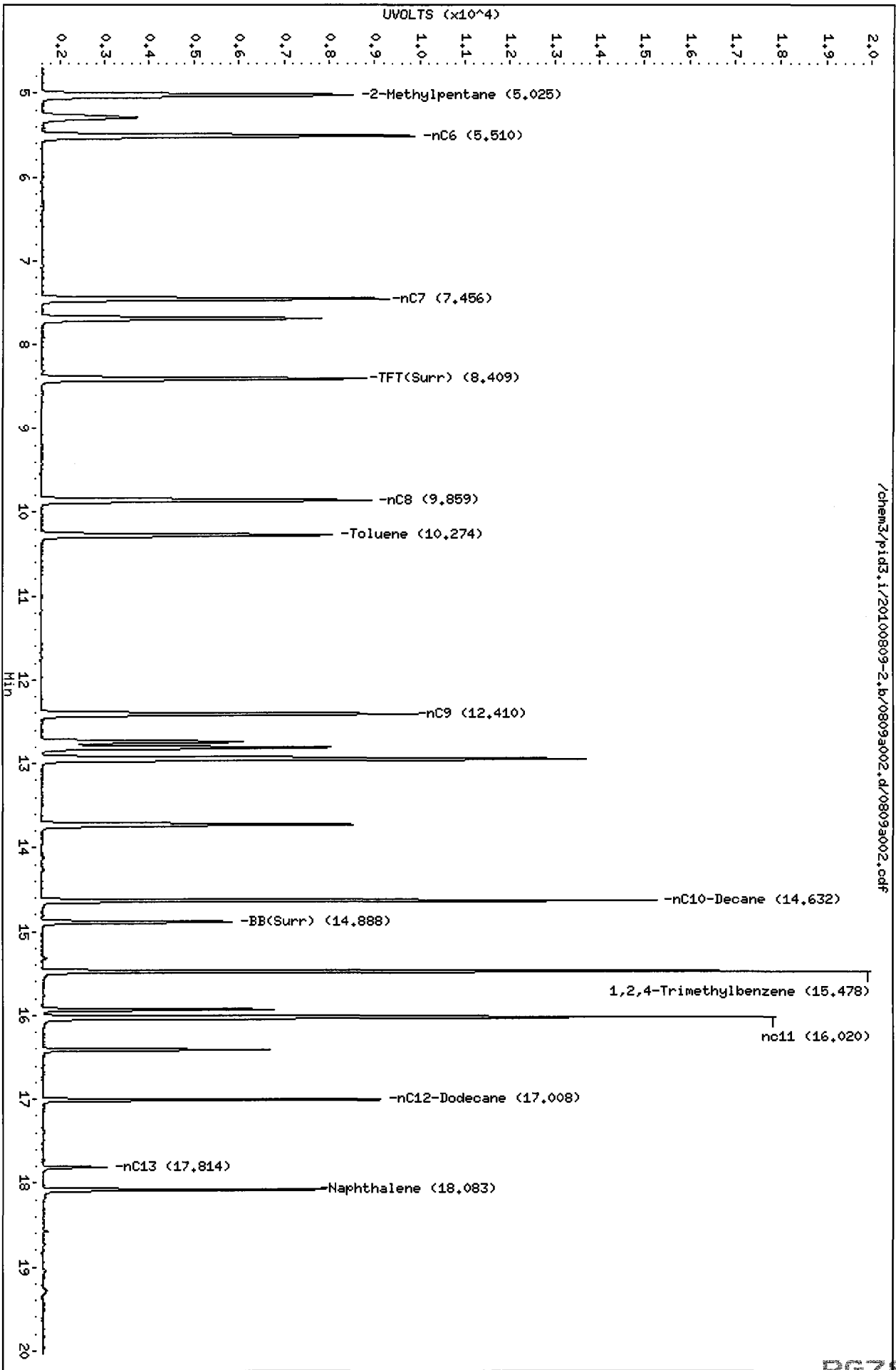
RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
7.689	0.000	31000	23.45	Benzene
10.273	0.000	30250	22.92	Toluene
12.805	0.000	27553	22.17	Ethylbenzene
12.943	0.000	60495	44.92	M/P-Xylene
13.725	0.000	28986	22.56	O-Xylene
5.291	0.000	8888	24.98	MTBE

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

MH
8/10/10

Data File: /chem3/pid3.i/20100809-2.b/0809a002.d
Date: 09-AUG-2010 07:03
Client ID:
Sample Info: RT+BCAL 1
Column phase: RTX 502-2 FID

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



/chem3/pid3.i/20100809-2.b/0809a002.d/0809a002.cdf

Data File: /chem3/pid3.i/20100809-1.b/0809a002.d

Date: 09-AUG-2010 07:03

Client ID:

Sample Info: RT+GCAL 1

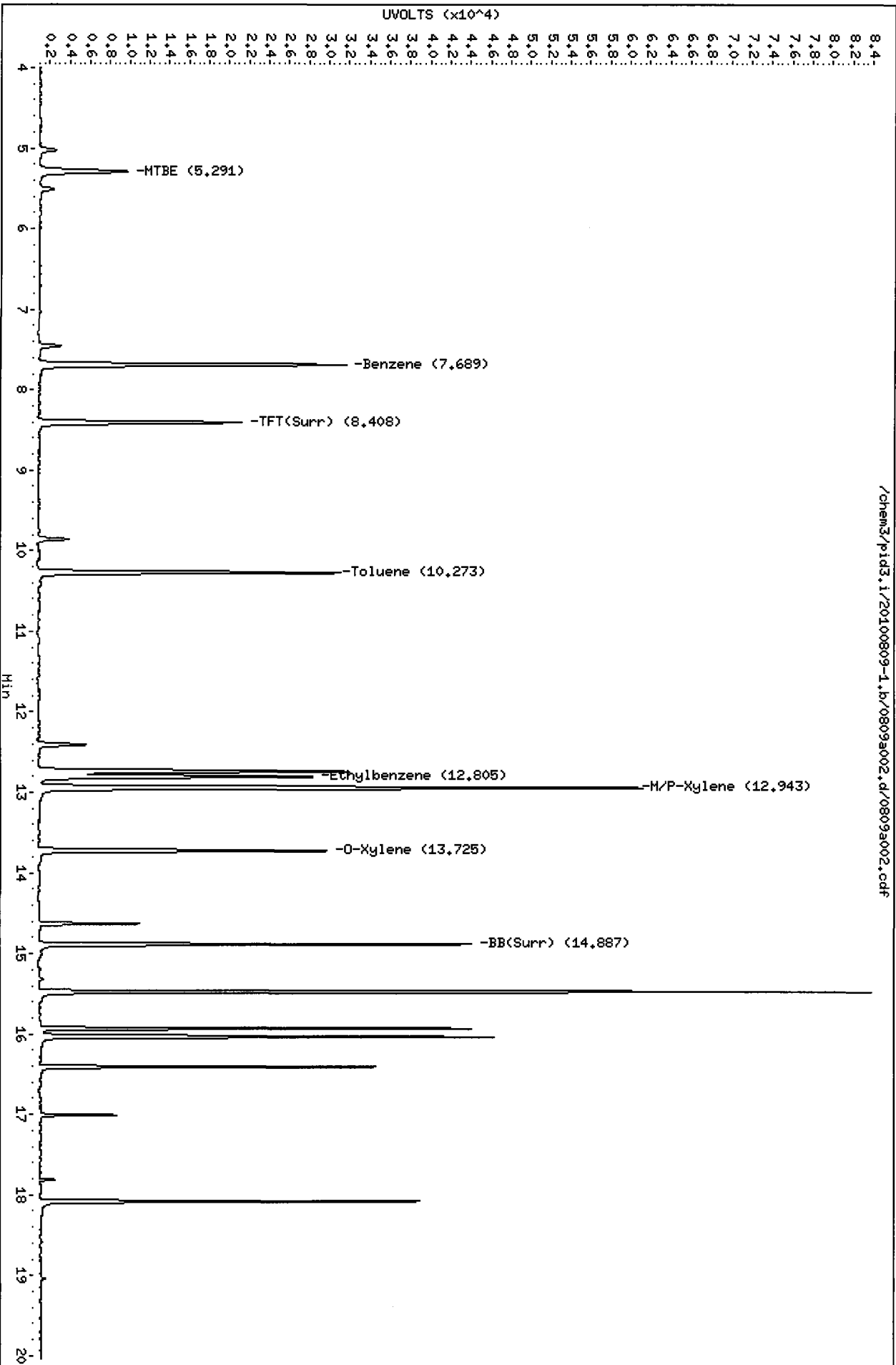
Instrument: pid3.i

Operator: MH

Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem3/pid3.i/20100809-1.b/0809a002.d/0809a002.cdf



Mt.
8/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100809-2.b/0809a003.d ARI ID: GCAL 1
Data file 2: /chem3/pid3.i/20100809-1.b/0809a003.d Client ID:
Method: /chem3/pid3.i/20100809-1.b/PIDB.m Injection Date: 09-AUG-2010 07:28
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	-----	-----
8.428	0.019	7438	88646	103.3	TFT(Surr)
14.902	0.013	4451	38121	103.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	-----	-----	-----
WAGas Tol-C12 (10.17 to 17.11)	827807	1840855	2.224 M
8015B 2MP-TMB (4.93 to 15.58)	1664107	3571983	2.146 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	2410004	2.129 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	1964102	2.227 M

M Indicates manual integration within range

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

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	-----	-----
8.427	0.019	20904	95.1	TFT(Surr)
14.900	0.013	43547	95.5	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
7.707	0.018	6364	4.81	Benzene
10.293	0.020	84327	63.89	Toluene
12.826	0.021	24475	19.70	Ethylbenzene
12.967	0.024	94934	70.50	M/P-Xylene
13.744	0.019	39248	30.55	O-Xylene
5.306	0.015	73864	207.60	MTBE

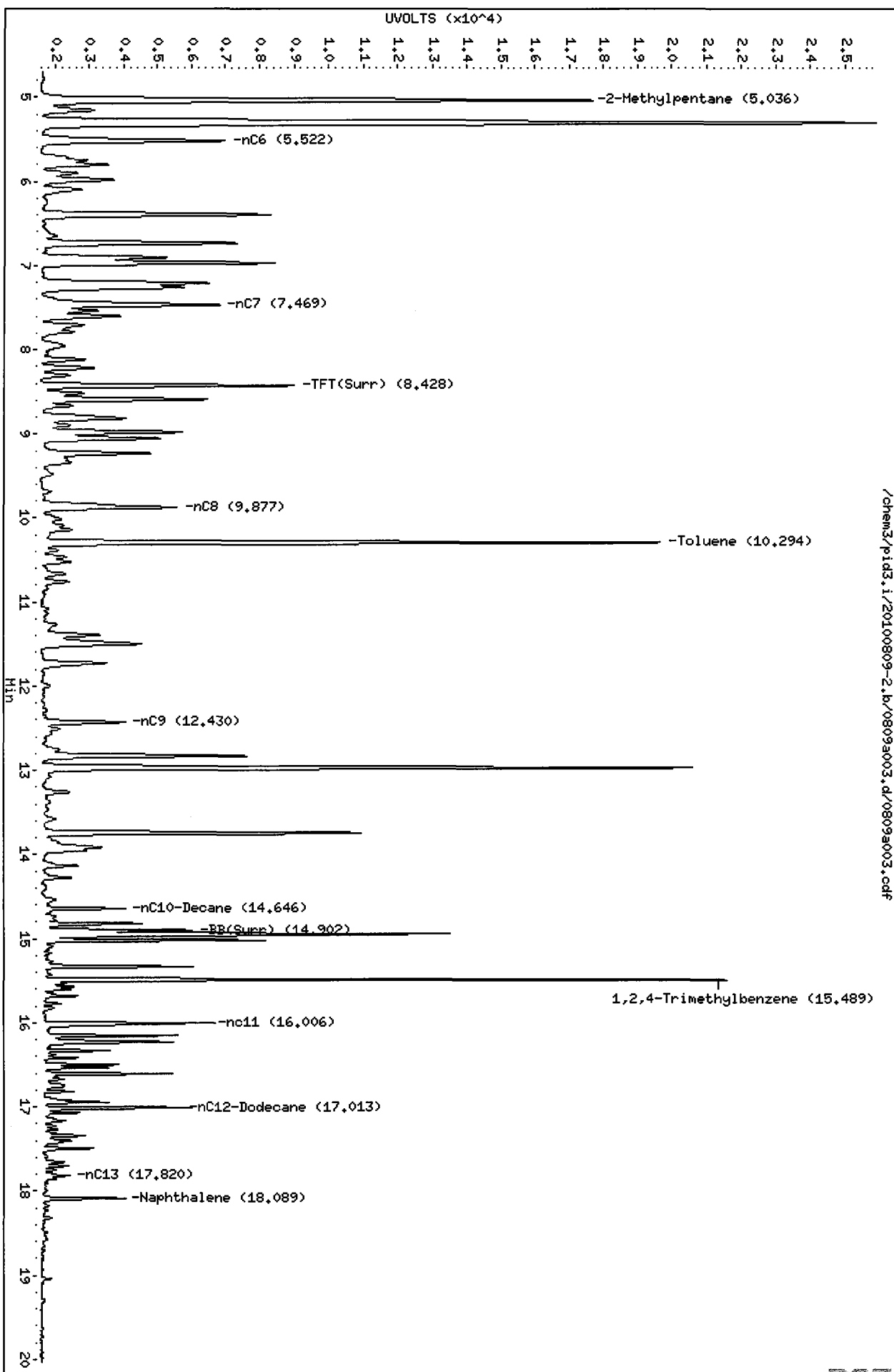
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100809-2.b/0809a003.d
Date: 09-AUG-2010 07:28
Client ID: LORA LAKE
Sample Info: GCAL 1

Column phase: RTX 502-2 FID

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

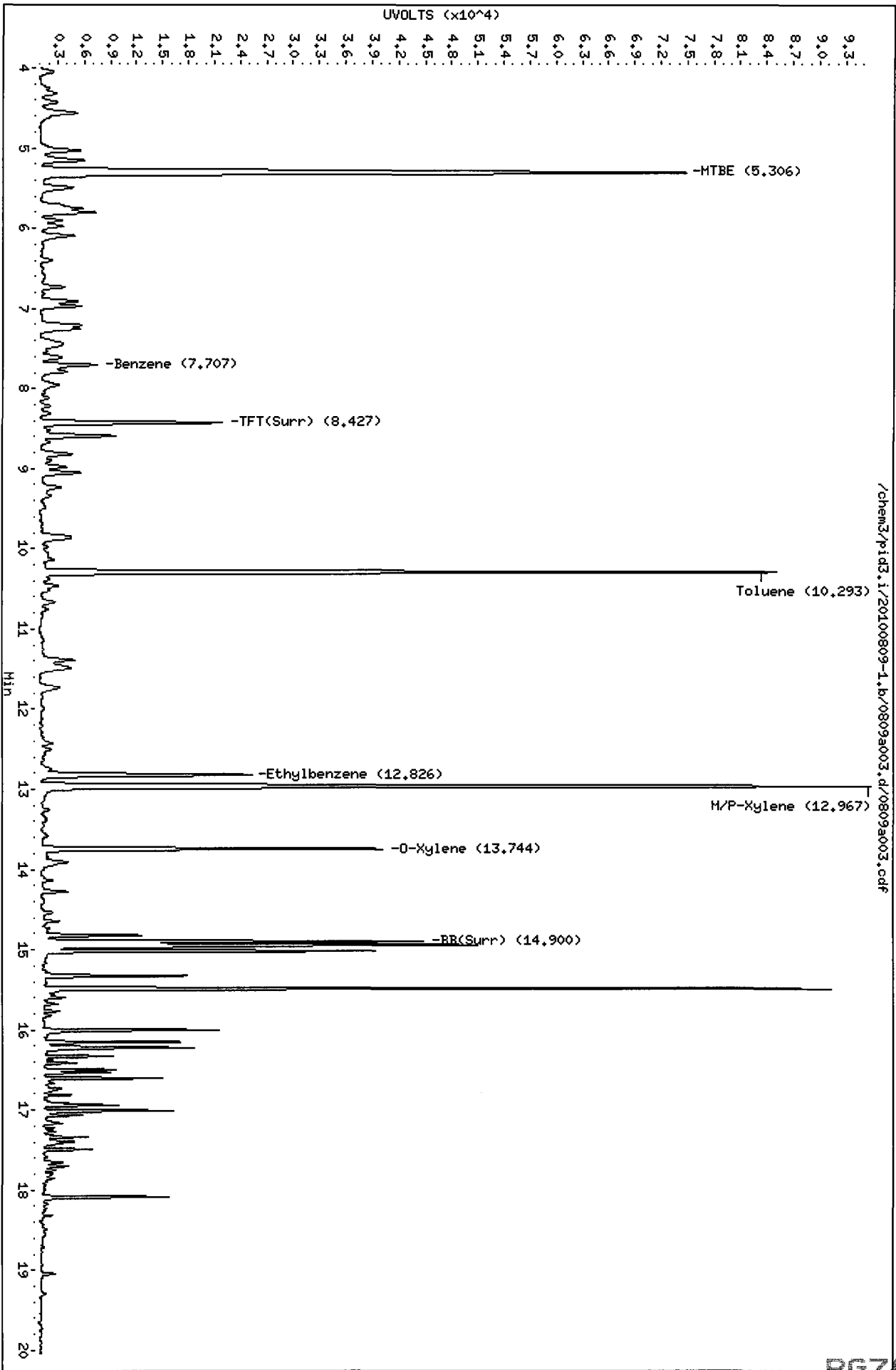
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Data File: /chem3/pid3.i/20100809-1.b/0809a003.d
Date: 09-AUG-2010 07:28
Client ID:
Sample Info: GCAL 1

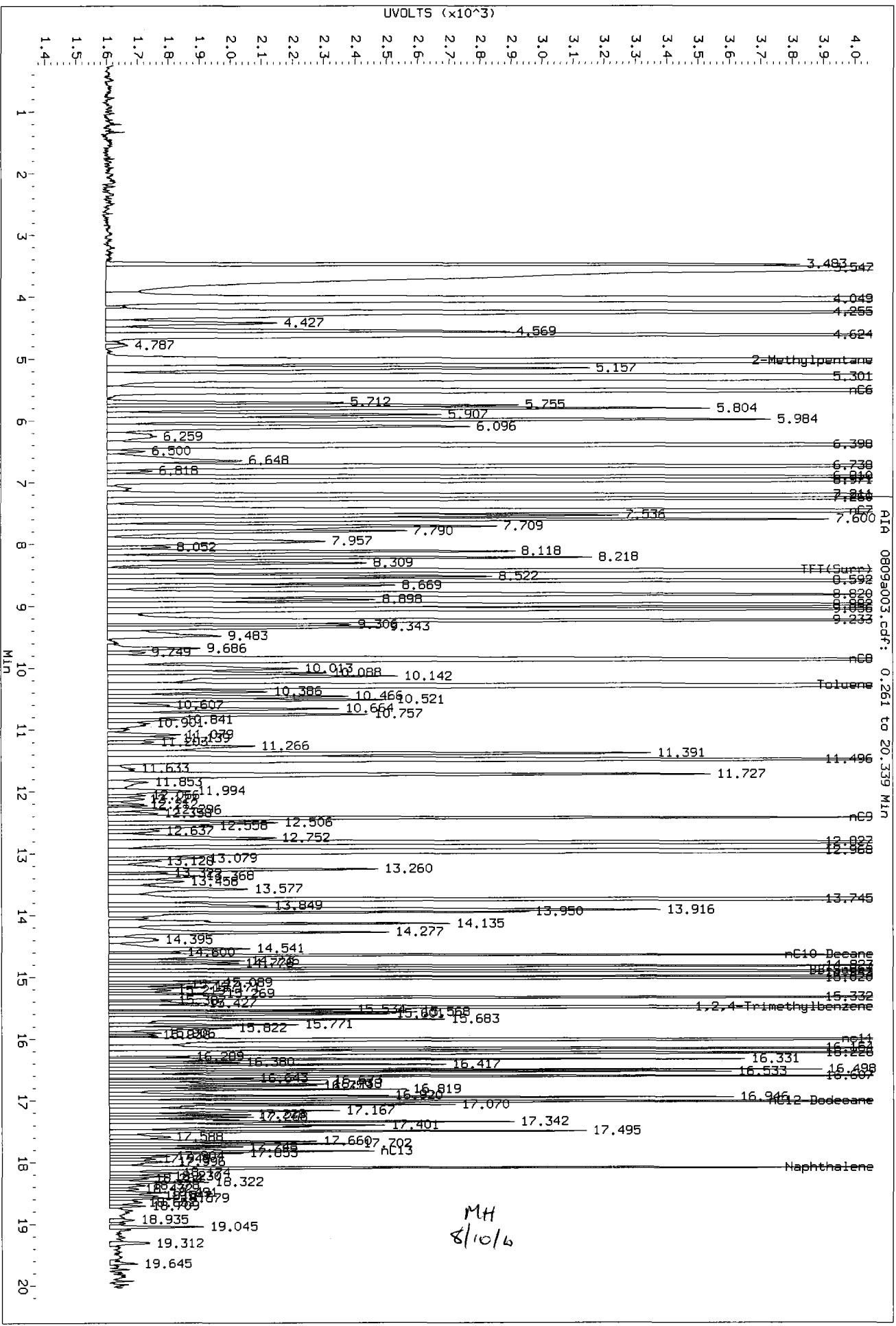
Column phase: RTX 502-2 PID

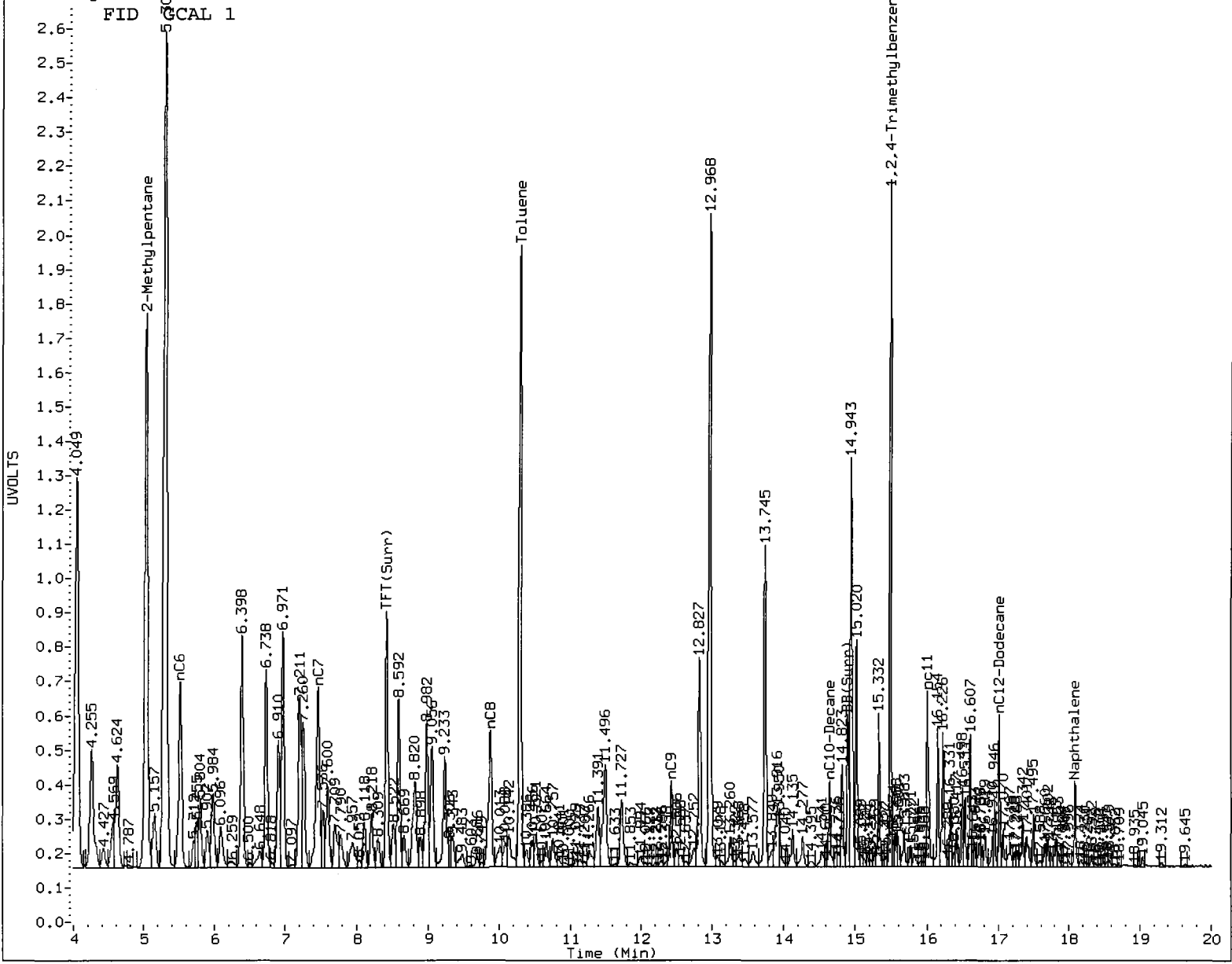
Instrument: pid3.i
Operator: MH
Column diameter: 0.18



/chem3/pid3.i/20100809-1.b/0809a003.d/0809a003.cdf

Data File: /chem3/pid3.1/20100809-2.b/0809a003.d/0809a003.cdf
 Injection Date: 09-AUG-2010 07:28
 Instrument: pid3.1
 Client Sample ID:





MANUAL INTEGRATION

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

Analyst: MH Date: 8/10/0

8/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100809-2.b/0809a004.d ARI ID: LCS0809
Data file 2: /chem3/pid3.i/20100809-1.b/0809a004.d Client ID:
Method: /chem3/pid3.i/20100809-1.b/PIDB.m Injection Date: 09-AUG-2010 07:52
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.436	0.027	7305	87319	101.5	TFT(Surr)
14.908	0.020	4450	37138	103.3	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	764186	0.923 M
8015B 2MP-TMB (4.93 to 15.58)	1664107	1485820	0.893 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	1006874	0.890 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	821450	0.931 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.435	0.027	20578	93.6	TFT(Surr)
14.907	0.020	44220	97.0	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.714	0.025	2622	1.98	Benzene
10.302	0.029	34735	26.32	Toluene
12.836	0.030	9877	7.95	Ethylbenzene
12.975	0.033	38777	28.80	M/P-Xylene
13.752	0.027	16065	12.50	O-Xylene
5.308	0.016	31403	88.26	MTBE

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

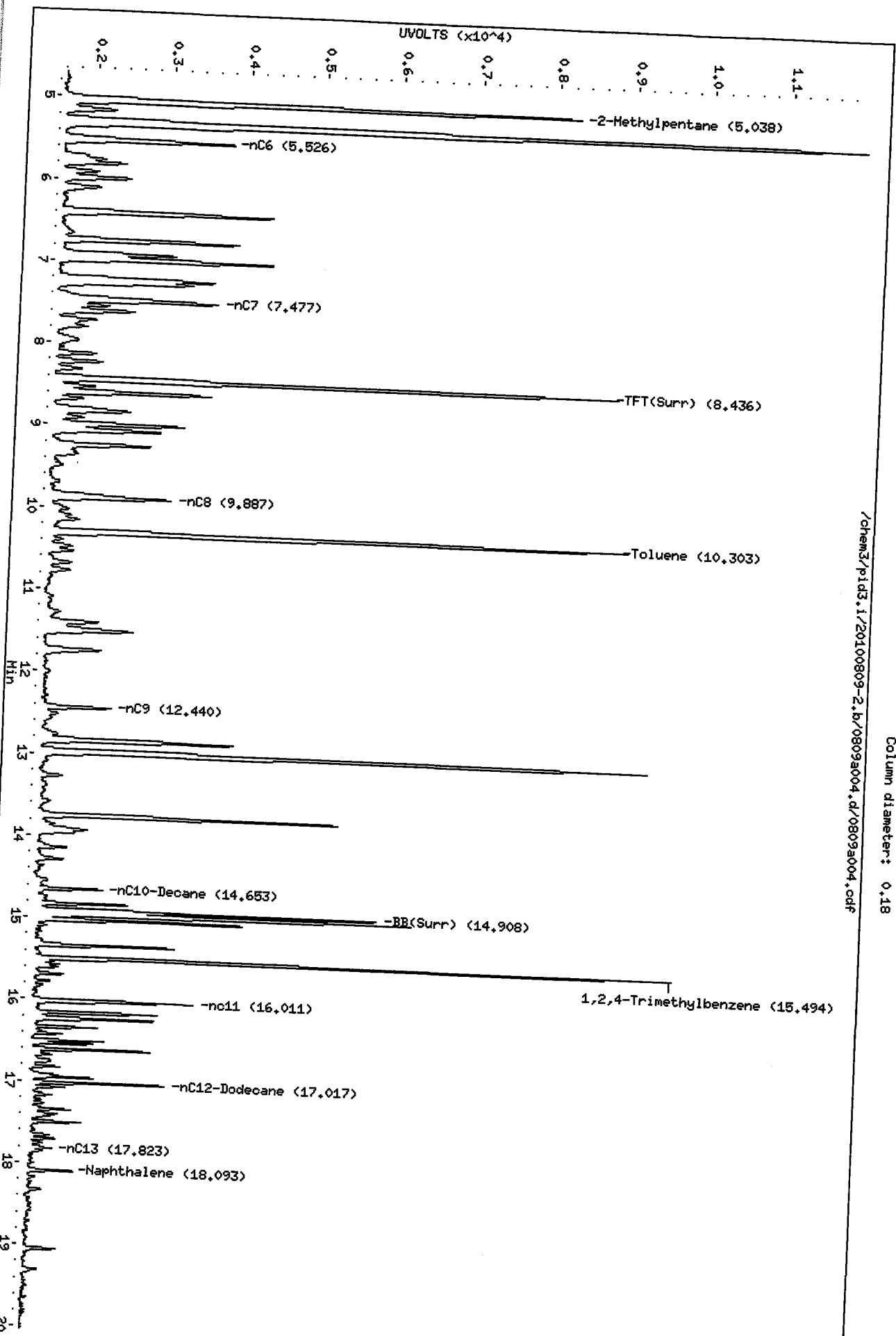
Data File: /chem3/pid3.i/20100809-2.b/0809a004.d
Date: 09-AUG-2010 07:52
Client ID:
Sample Info: LCS0809

Instrument: pid3.i

Column phase: RTX 502-2 FID

Operator: HH
Column diameter: 0.18

/chem3/pid3.i/20100809-2.b/0809a004.d/0809a004.cdf



Data File: /chem3/pid3.i/20100809-1.b/0809a004.d
Date: 09-AUG-2010 07:52

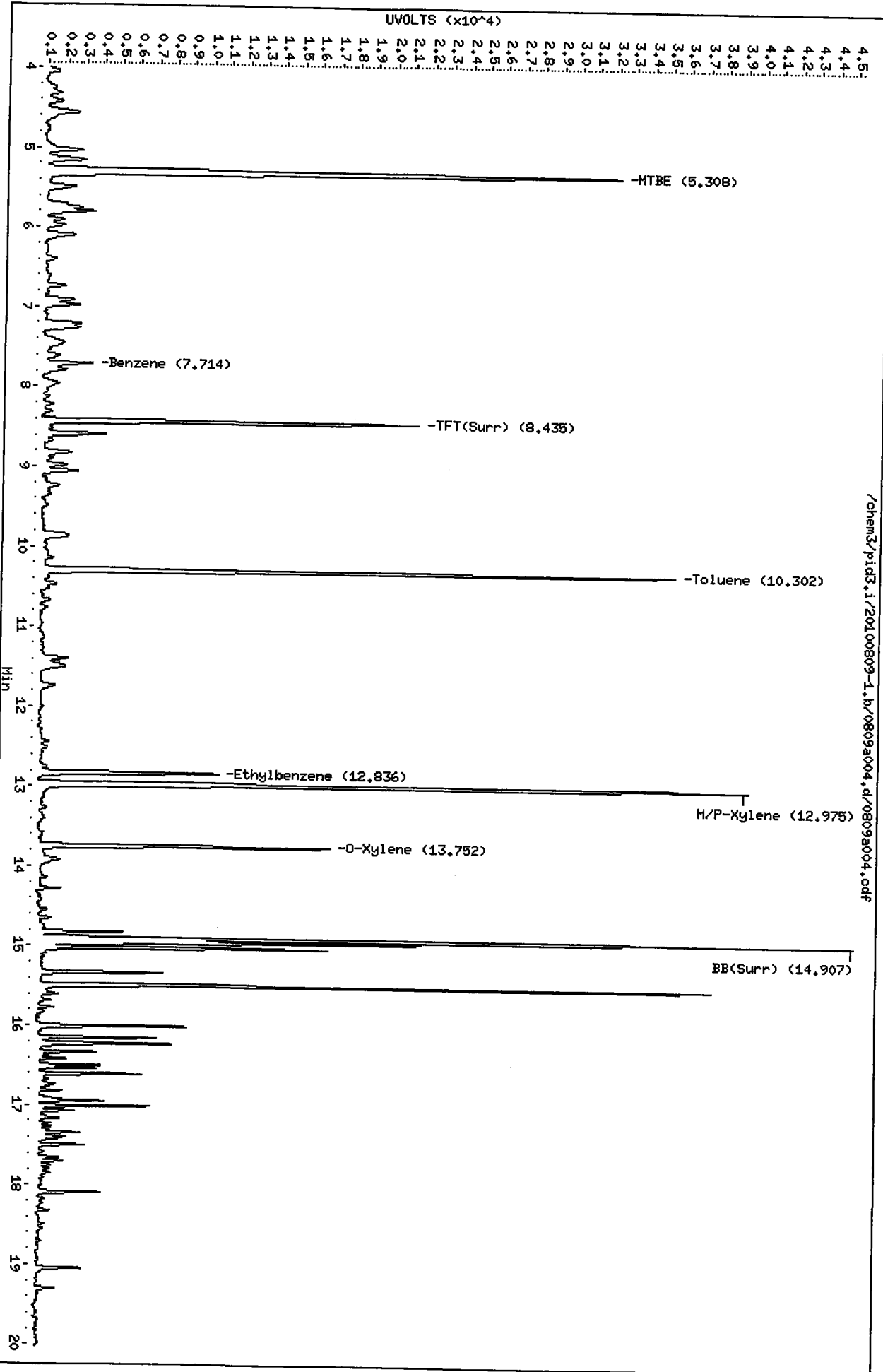
Client ID:
Sample Info: LCS0809

Column phase: RTX 502-2 PID

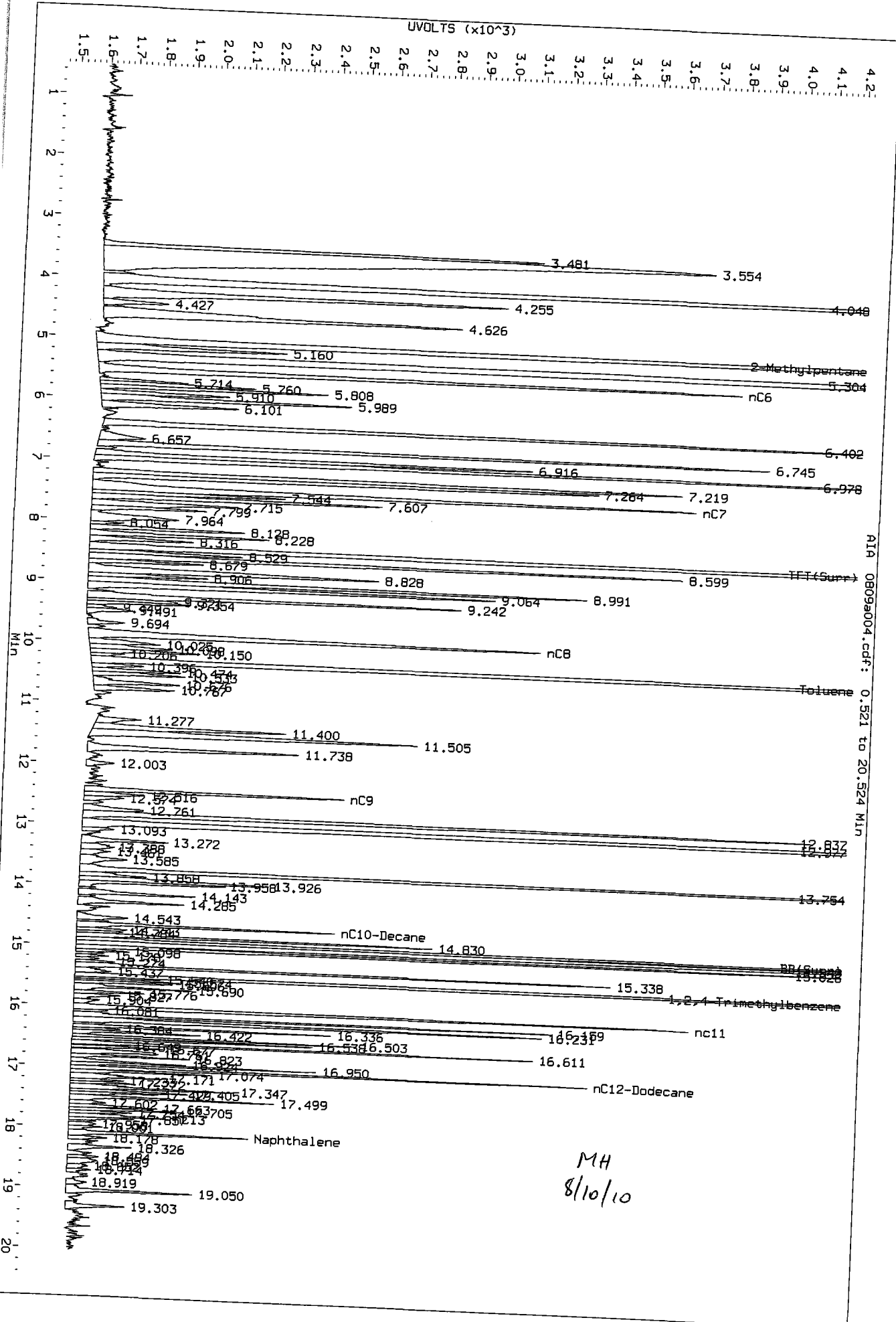
Instrument: pid3.i

Operator: MH
Column diameter: 0.18

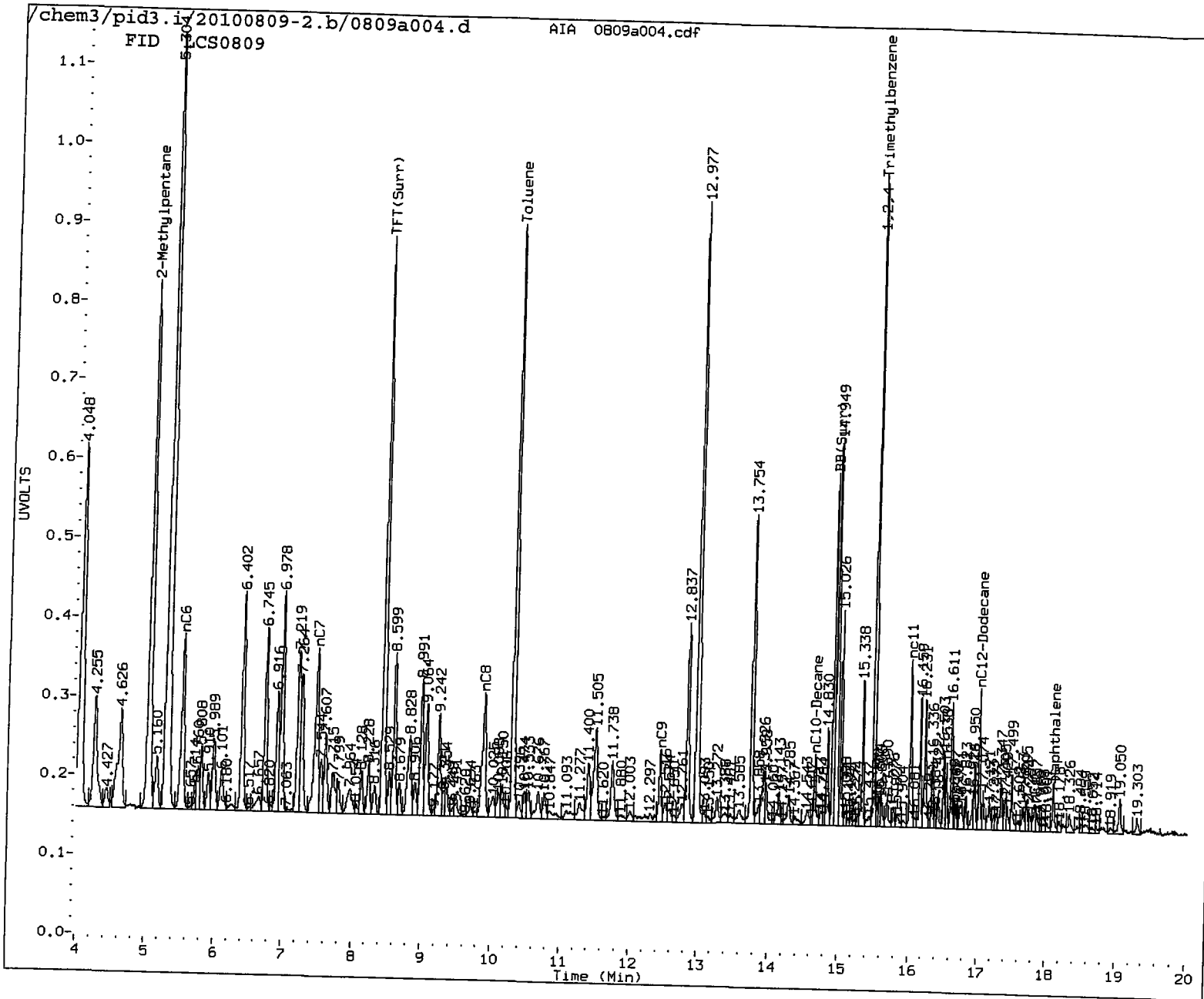
/chem3/pid3.i/20100809-1.b/0809a004.d/0809a004.cdf



Data File: /chem3/pid3.i/20100809-2.b/0809a004.d/0809a004.cdf
Injection Date: 09-AUG-2010 07:52
Instrument: pid3.i
Client Sample ID:



MH
8/10/10



MANUAL INTEGRATION

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

Analyst: MH

Date: 8/10/10

8/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100809-2.b/0809a005.d ARI ID: LCSD0809
Data file 2: /chem3/pid3.i/20100809-1.b/0809a005.d Client ID:
Method: /chem3/pid3.i/20100809-1.b/PIDB.m Injection Date: 09-AUG-2010 08:17
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.439	0.029	7232	85903	100.5	TFT(Surr)
14.910	0.022	4412	36162	102.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	760196	0.918 M
8015B 2MP-TMB (4.93 to 15.58)	1664107	1480522	0.890 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	1007446	0.890 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	813401	0.922 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.437	0.029	20475	93.1	TFT (Surr)
14.908	0.021	43782	96.0	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.715	0.026	2608	1.97	Benzene
10.304	0.031	34802	26.37	Toluene
12.839	0.033	10108	8.13	Ethylbenzene
12.978	0.036	38566	28.64	M/P-Xylene
13.754	0.029	16129	12.55	O-Xylene
5.306	0.015	31134	87.50	MTBE

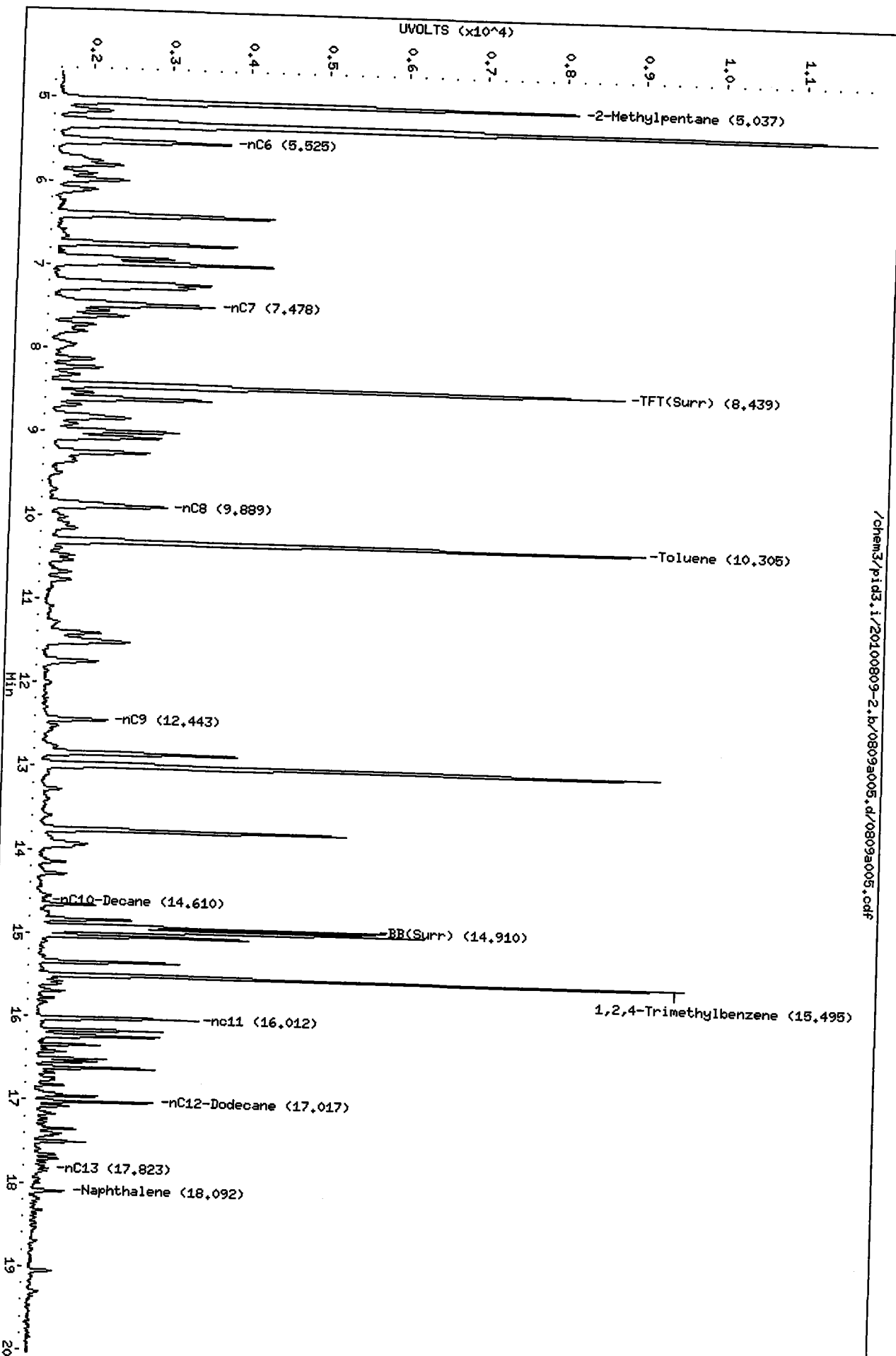
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100809-2.b/0809a005.d
Date : 09-AUG-2010 08:17
Client ID:
Sample Info: LCSD0809

Column phaset RTX 502-2 FID

Instrument: pid3.i

Operator: MH
Column diameter: 0.18



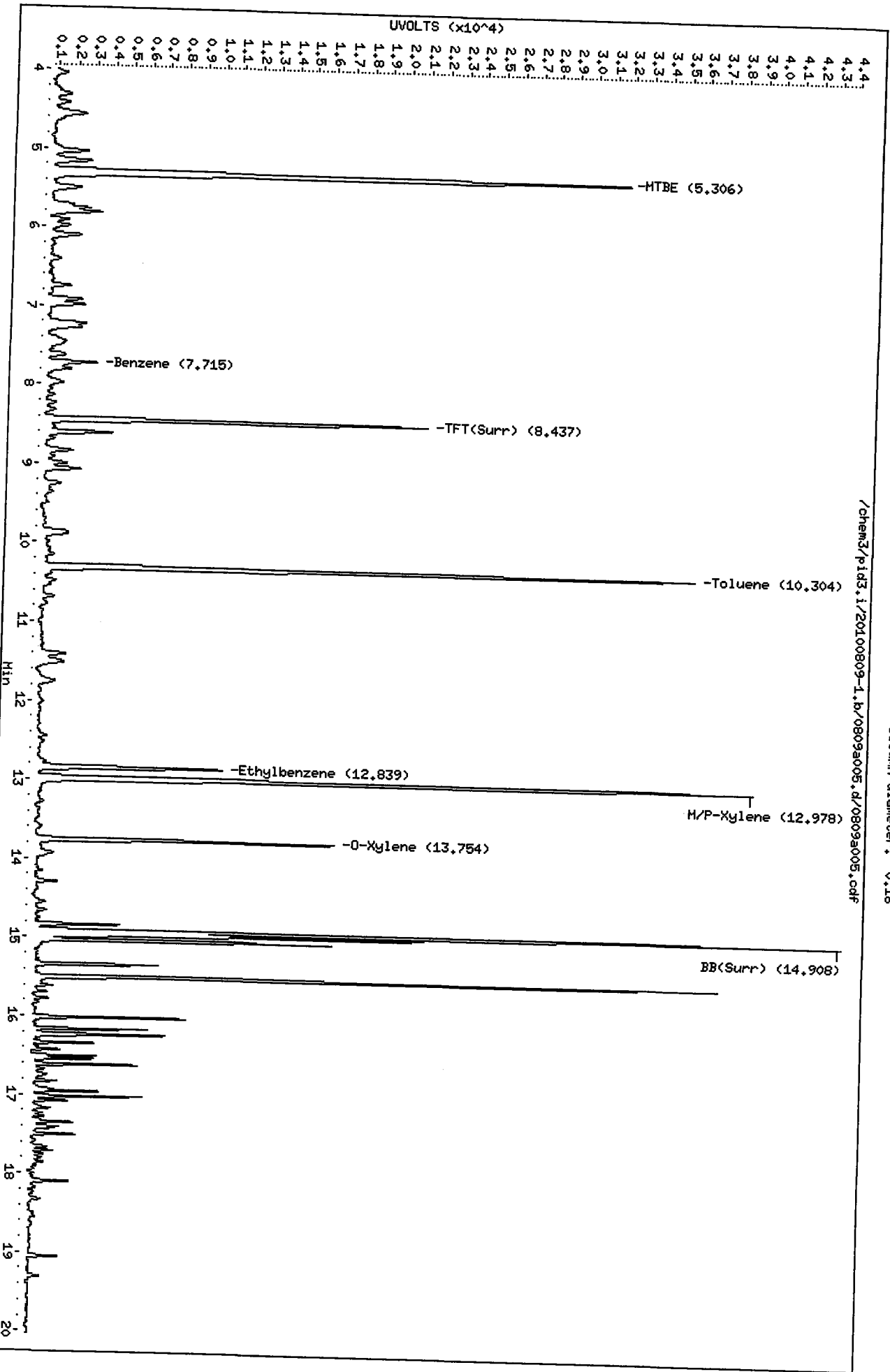
/chem3/pid3.i/20100809-2.b/0809a005.d/0809a005.cdf

Data File: /chem3/pid3.i/20100809-1.b/0809a005.d
Date: 09-AUG-2010 08:17
Client ID:
Sample Info: LCSD0809

Instrument: pid3.i

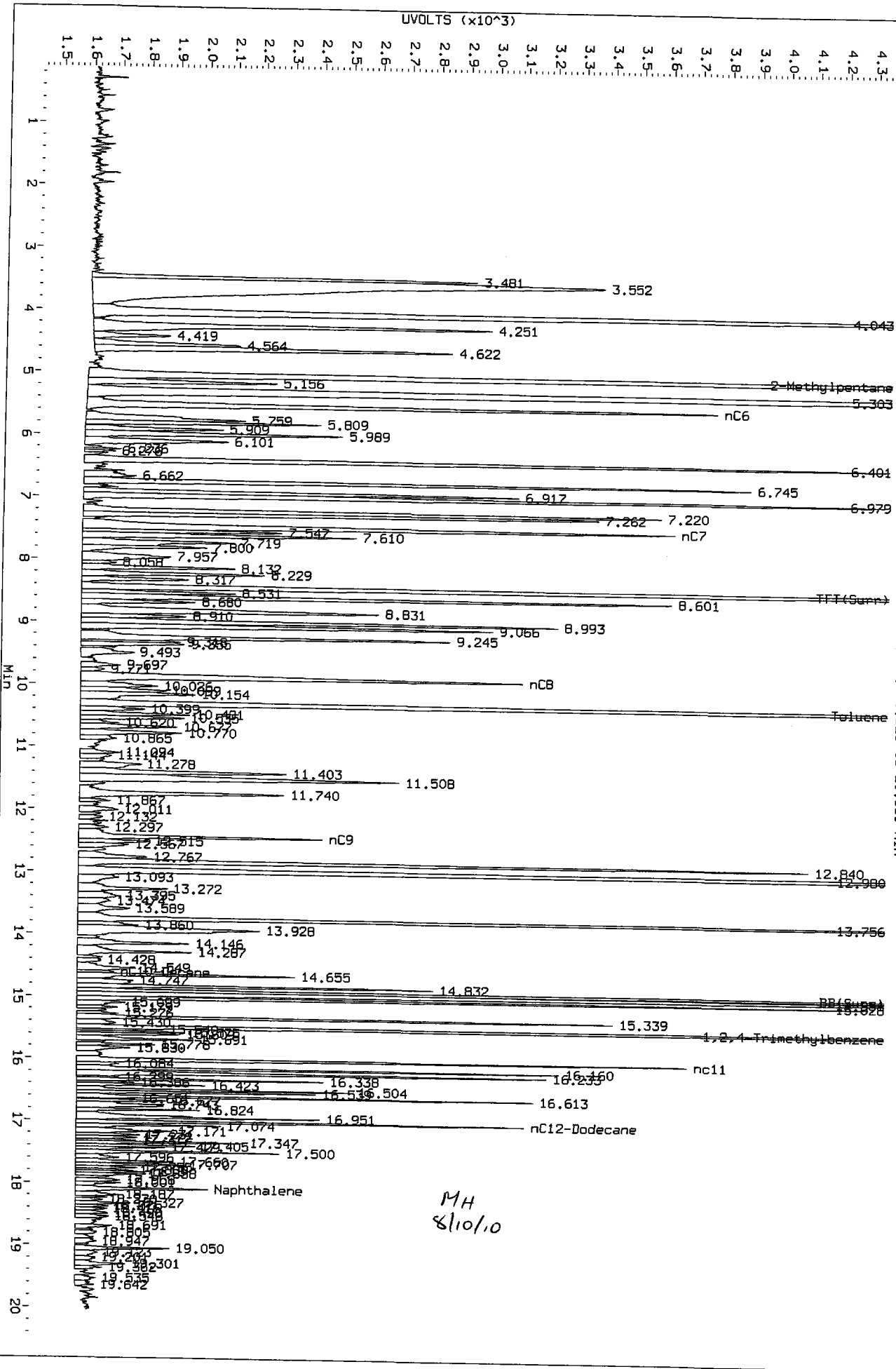
Column phase: RTX 502-2 PID

Operator: HH
Column diameter: 0.18



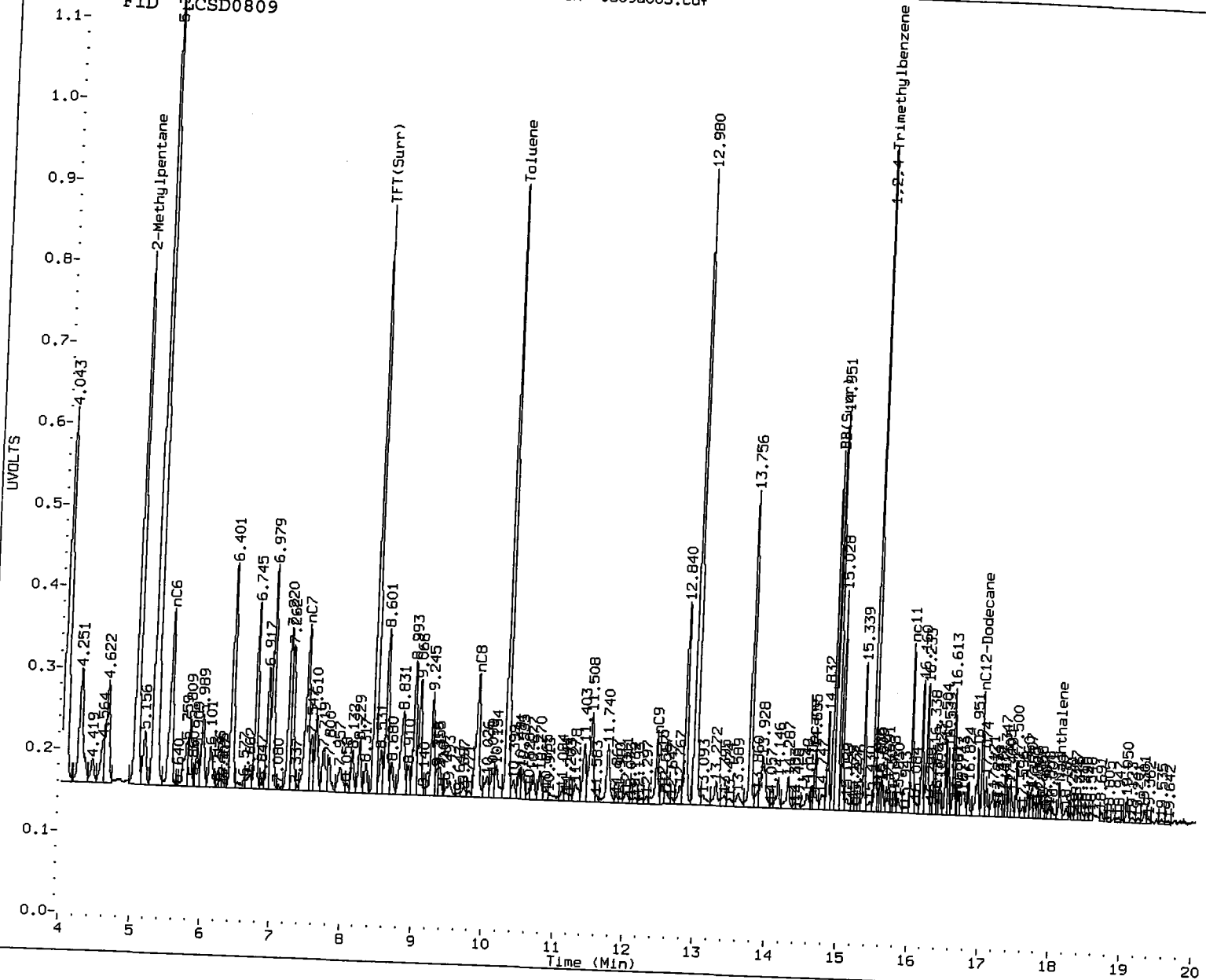
/chem3/pid3.i/20100809-1.b/0809a005.d/0809a005.cdf

Data File: /chem3/pid3_1/20100809-2-b/0809a005.d/0809a005.cdf
Injection Date: 09-AUG-2010 08:17
Instrument: PID3.1
Client Sample ID:



MH
8/10/10

A1A 0809a005.cdf: 0.125 to 20.539 Min



MANUAL INTEGRATION

- 0. Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation

5. Other _____

Analyst: MH

Date: 8/10/10

8/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100809-2.b/0809a006.d ARI ID: MB0809
Data file 2: /chem3/pid3.i/20100809-1.b/0809a006.d Client ID:
Method: /chem3/pid3.i/20100809-1.b/PIDB.m Injection Date: 09-AUG-2010 08:41
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.441	0.031	7115	84252	98.9	TFT (Surr)
14.911	0.023	4335	37189	100.7	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	11750	0.014
8015B 2MP-TMB (4.93 to 15.58)	1664107	11454	0.007
AK101 nC6-nC10 (5.41 to 14.53)	1131784	10391	0.009
NWTPHG Tol-Nap (10.17 to 18.18)	882029	15075	0.017

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.440	0.032	19870	90.4	TFT (Surr)
14.910	0.023	42600	93.4	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

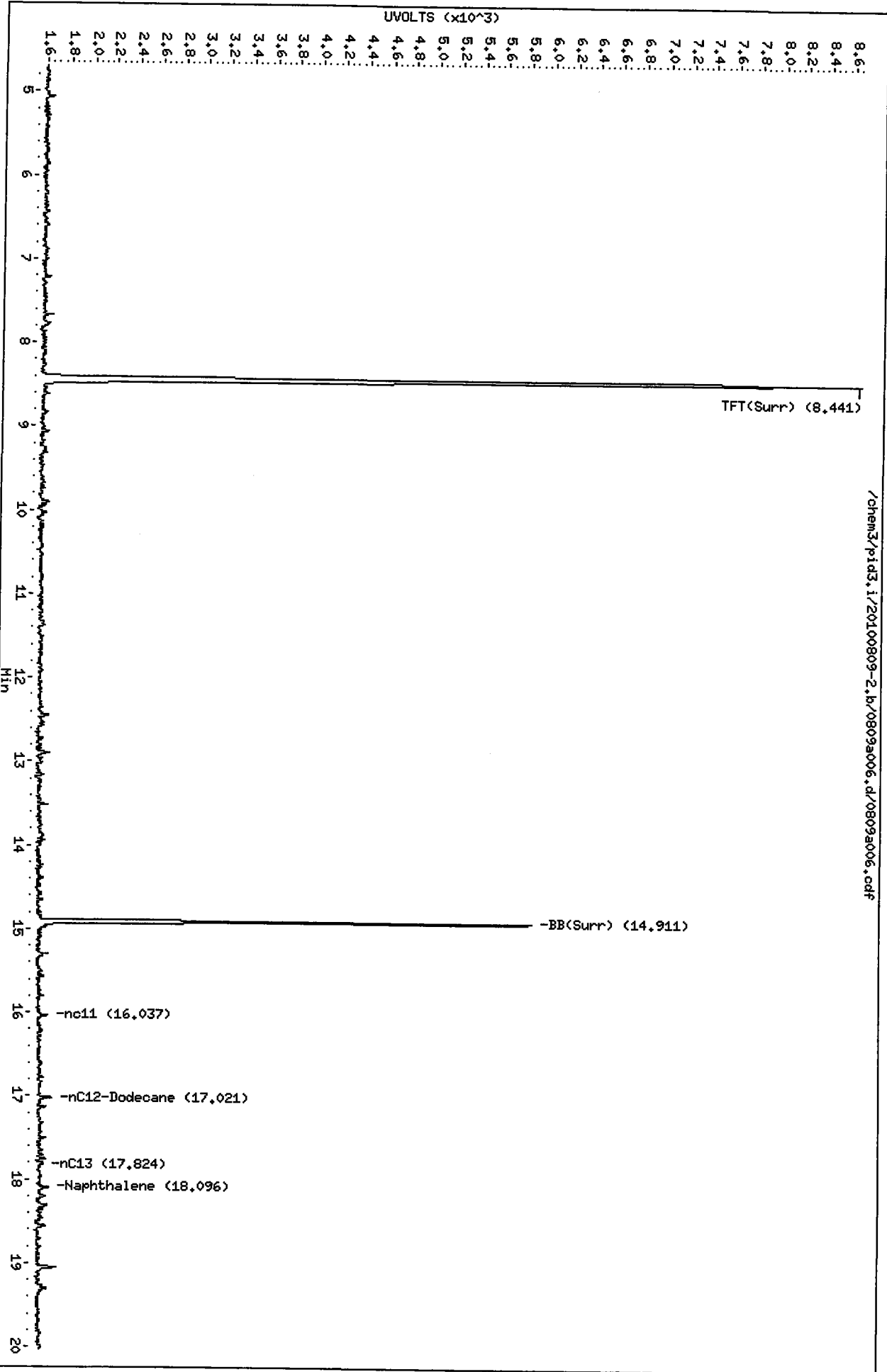
Data File: /chem3/pid3.i/20100809-2.b/0809a006.d
Date : 09-AUG-2010 08:41

Client ID:
Sample Info: MB0809

Column phase: RTX 502-2 FID

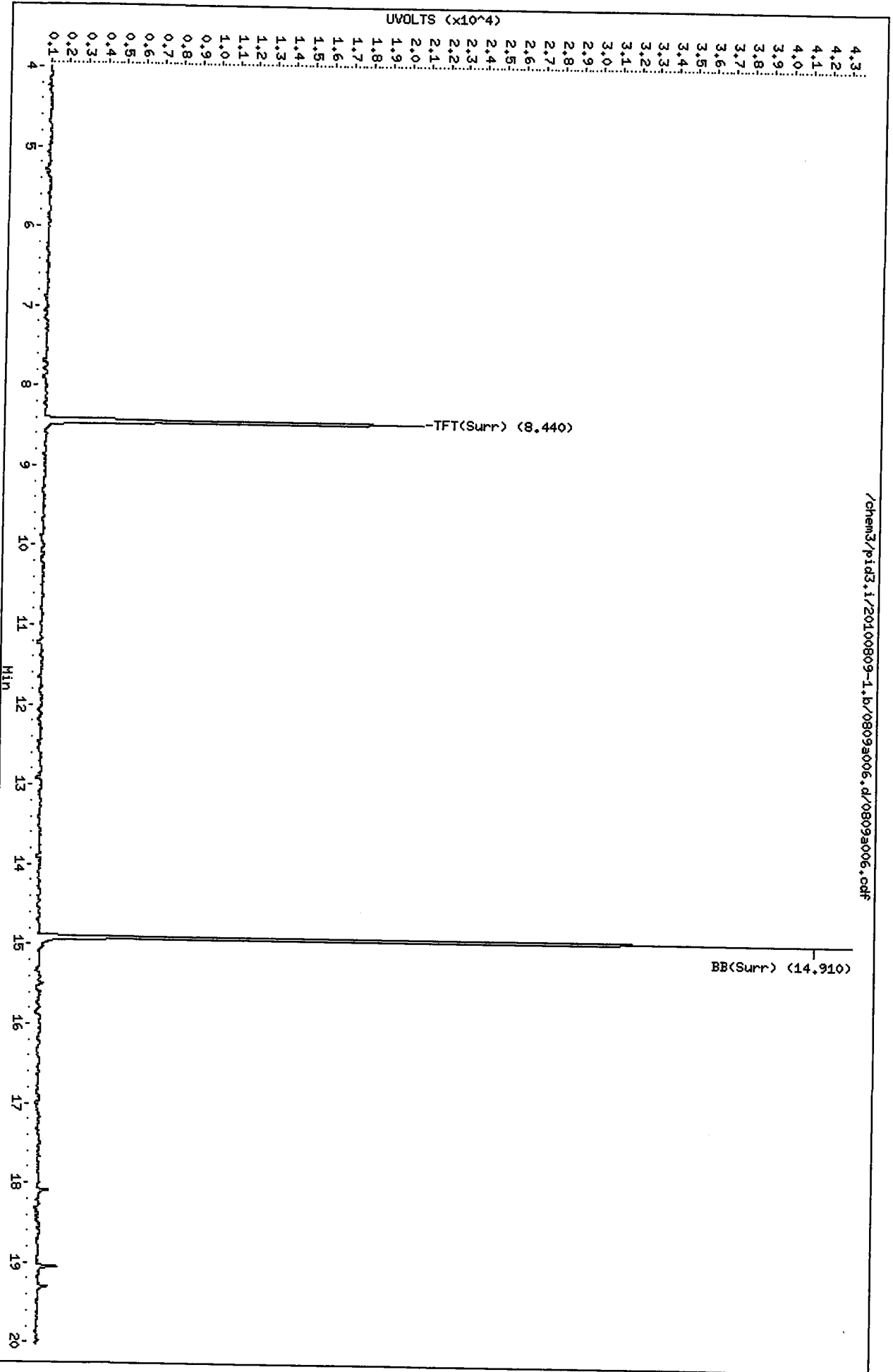
Instrument: pid3.i

Operator: MH
Column diameter: 0.18



Data File: /chem3/pid3.i/20100809-1.b/0809s006.d
Date : 09-AUG-2010 08:41
Client ID:
Sample Info: HB0809
Column phase: RTX 502-2 PID

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



/chem3/pid3.i/20100809-1.b/0809s006.d/0809s006.cdf

MH
8/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100809-2.b/0809a012.d ARI ID: BCAL 2
Data file 2: /chem3/pid3.i/20100809-1.b/0809a012.d Client ID: BCAL 2
Method: /chem3/pid3.i/20100809-1.b/PIDB.m Injection Date: 09-AUG-2010 11:44
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	-----	-----
8.439	0.030	7264	86055	100.9	TFT (Surr)
14.910	0.022	4438	36314	103.1	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	-----	-----	-----
WAGas Tol-C12 (10.17 to 17.11)	827807	571157	0.690
8015B 2MP-TMB (4.93 to 15.58)	1664107	572155	0.344
AK101 nC6-nC10 (5.41 to 14.53)	1131784	532312	0.470
NWTPHG Tol-Nap (10.17 to 18.18)	882029	571157	0.648

M Indicates manual integration within range

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

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	-----	-----
8.438	0.030	20187	91.8	TFT (Surr)
14.909	0.022	44066	96.7	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
7.714	0.025	33347	25.22	Benzene
10.305	0.032	32158	24.37	Toluene
12.841	0.035	29661	23.87	Ethylbenzene
12.978	0.035	63696	47.30	M/P-Xylene
13.756	0.031	31392	24.43	O-Xylene
5.305	0.014	9297	26.13	MTBE

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

Data File: /chem3/pid3.i/20100809-2.b/0809a012.d

Date: 09-AUG-2010 11:44

Client ID:

Sample Info: BCAL 2

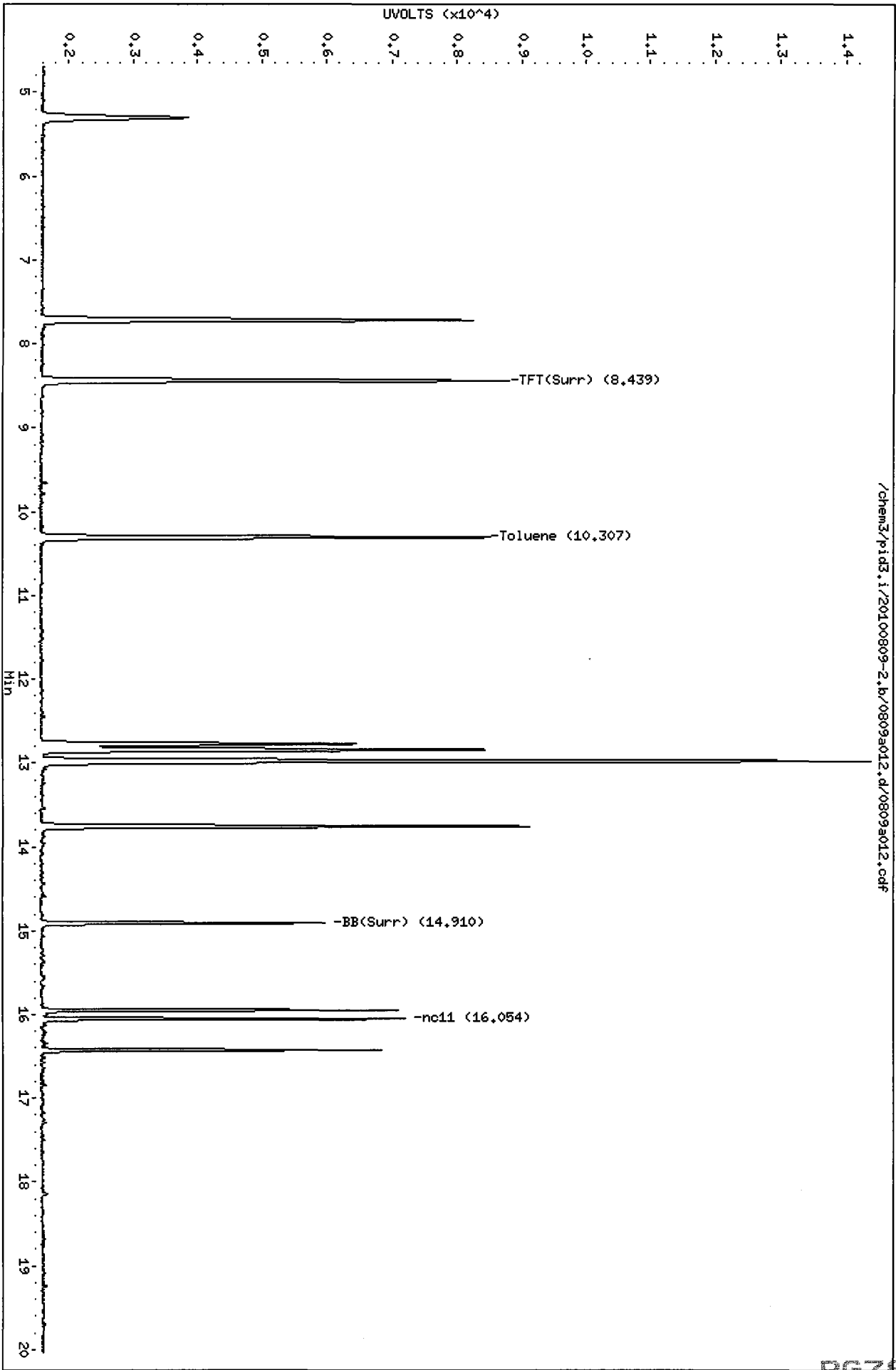
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

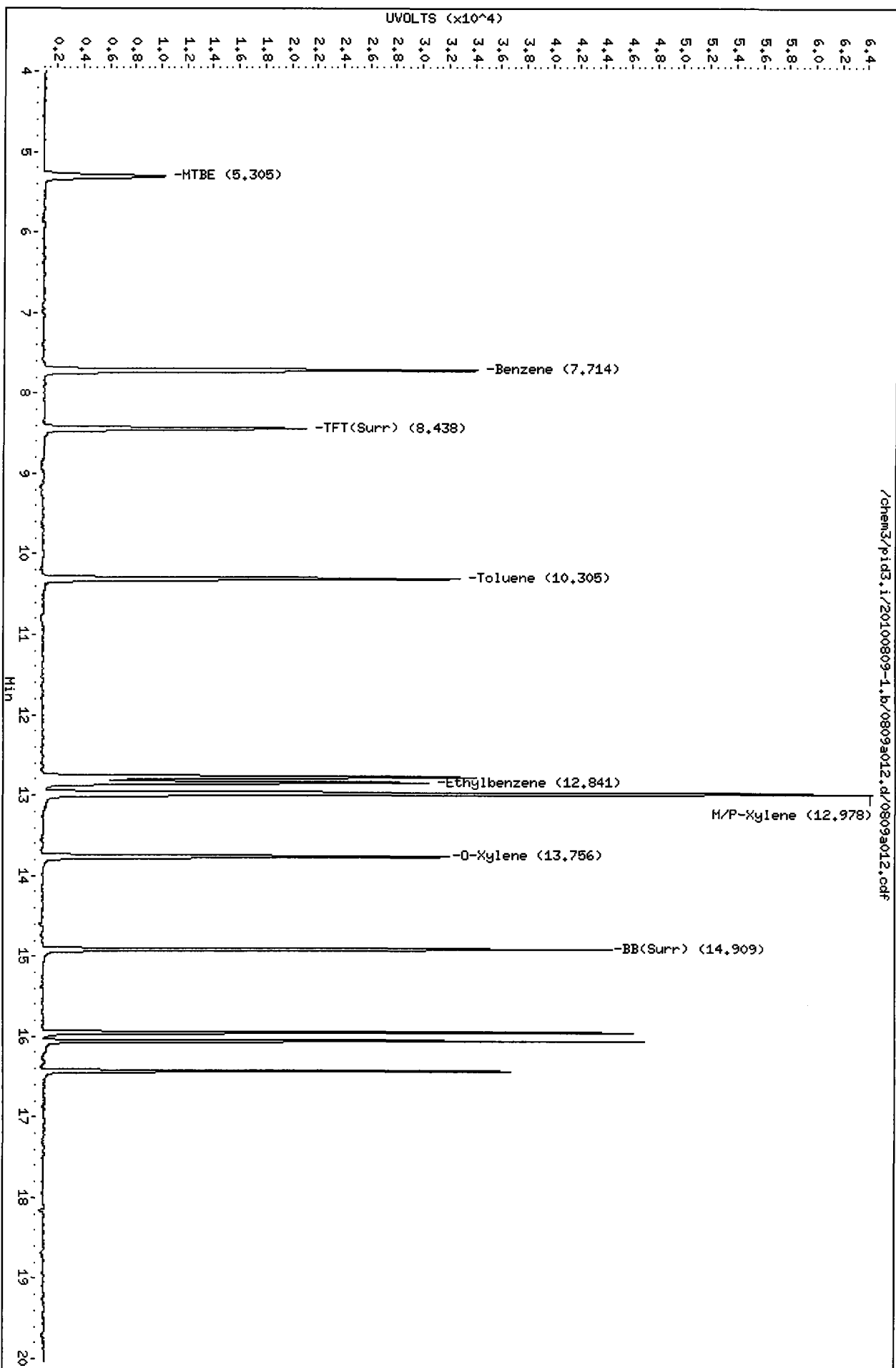
/chem3/pid3.i/20100809-2.b/0809a012.d/0809a012.cdf



Data File: /chem3/pid3.i/20100809-1.b/0809a012.d
Date: 09-AUG-2010 11:44
Client ID: BCAL 2
Sample Info: BCAL 2

Column phase: RTX 502-2 PID

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



/chem3/pid3.i/20100809-1.b/0809a012.d/0809a012.cdf

M.
8/8/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100809-2.b/0809a013.d ARI ID: GCAL 2
Data file 2: /chem3/pid3.i/20100809-1.b/0809a013.d Client ID:
Method: /chem3/pid3.i/20100809-1.b/PIDB.m Injection Date: 09-AUG-2010 12:08
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

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FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	-----	-----
8.440	0.031	7662	91799	106.5	TFT (Surr)
14.911	0.023	4747	37426	110.2	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	-----	-----	-----
WAGas Tol-C12 (10.17 to 17.11)	827807	2054503	2.482 M
8015B 2MP-TMB (4.93 to 15.58)	1664107	4042380	2.429 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	2717390	2.401 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	2171923	2.462 M

M Indicates manual integration within range

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

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	-----	-----
8.439	0.031	21505	97.8	TFT (Surr)
14.910	0.023	45773	100.4	BB (Surr)

SW8021 (PID)

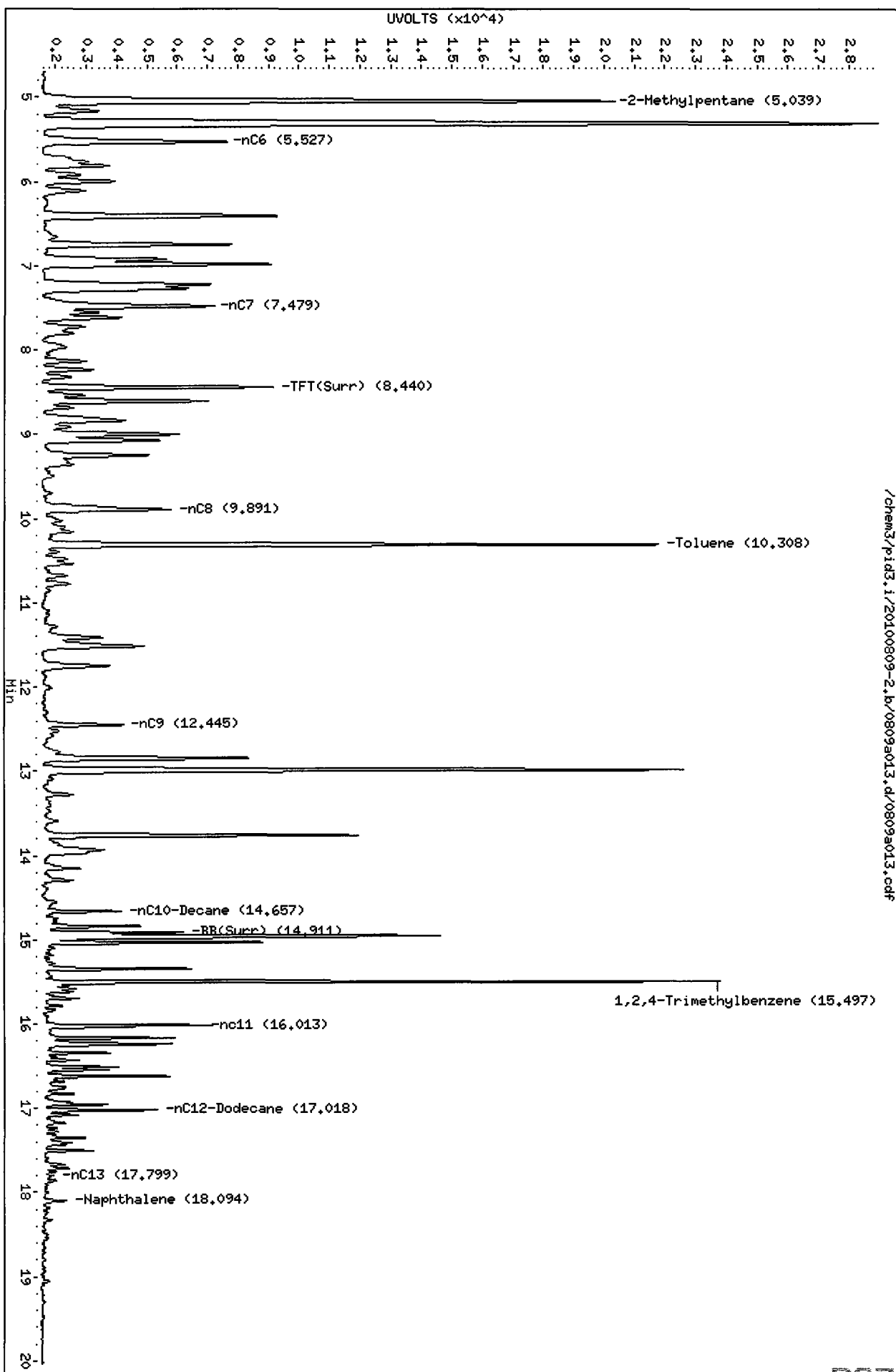
RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
7.717	0.028	7135	5.40	Benzene
10.307	0.034	95289	72.20	Toluene
12.841	0.036	27493	22.13	Ethylbenzene
12.982	0.039	105027	77.99	M/P-Xylene
13.757	0.032	43442	33.81	O-Xylene
5.310	0.019	82021	230.52	MTBE

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

Data File: /chem3/pid3.i/20100809-2.b/0809a013.d
Date: 09-AUG-2010 12:08
Client ID: LORA LAKE
Sample Info: GCAL 2

Column phase: RTX 502-2 FID

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

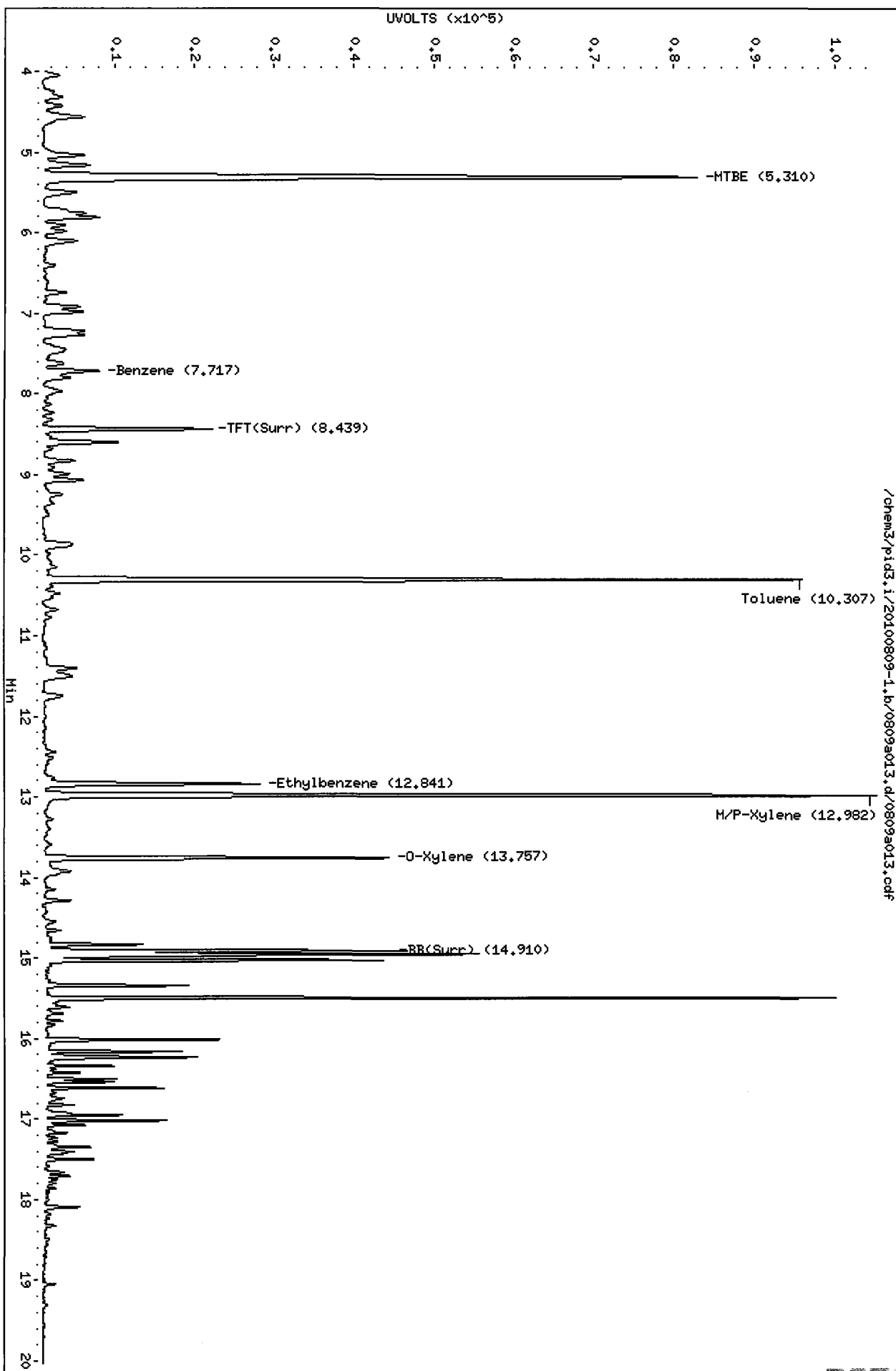


/chem3/pid3.i/20100809-2.b/0809a013.d/0809a013.cdf

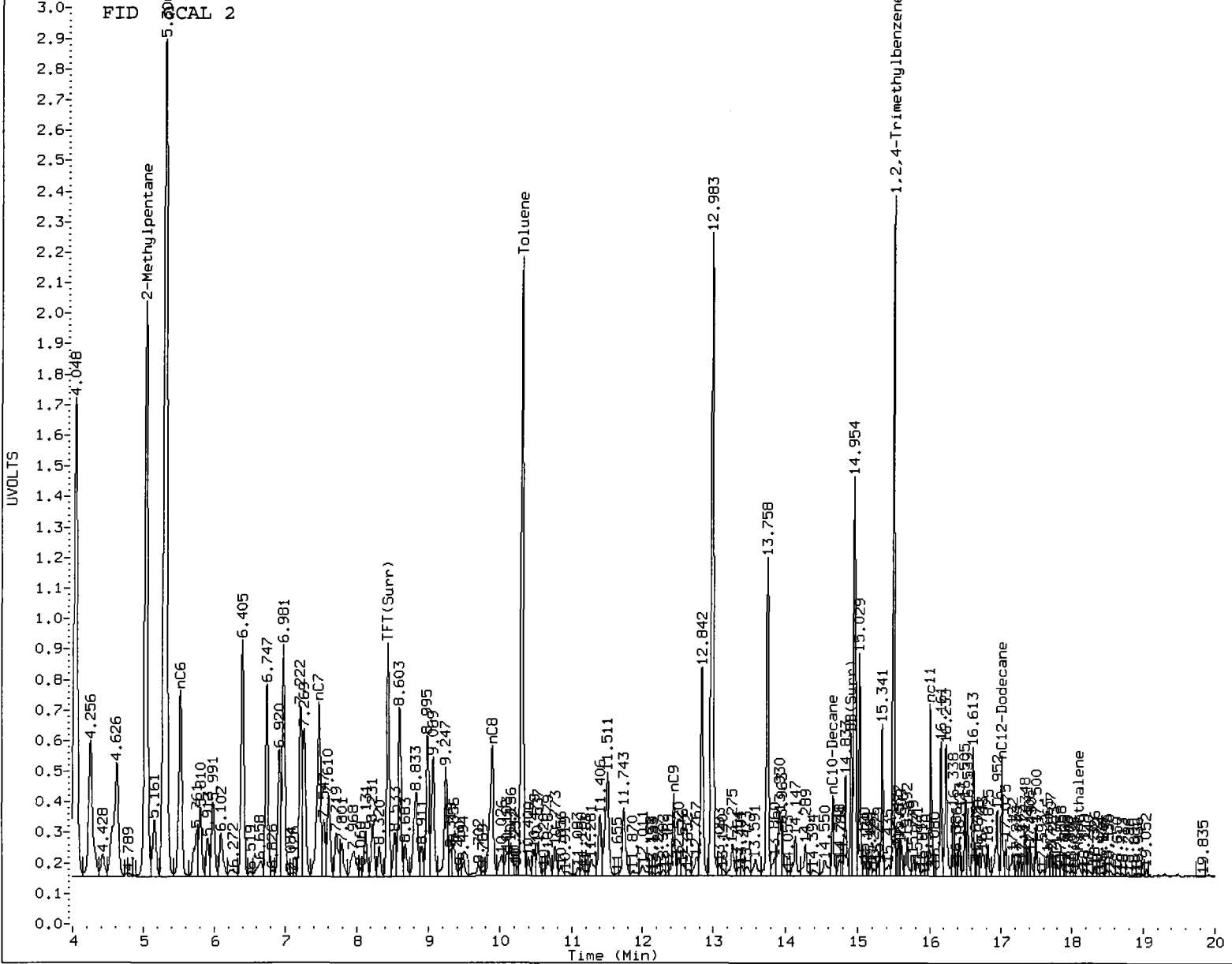
Data File: /chem3/pid3.i/20100809-1.b/0809a013.d
Date : 09-AUG-2010 12:08
Client ID:
Sample Info: GCAL 2

Column phase: RTX 502-2 PID

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



/chem3/pid3.i/20100809-1.b/0809a013.d/0809a013.cdf



MANUAL INTEGRATION

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

Analyst: MLH Date: 8/10/00

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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100809-2.b/0809a021.d ARI ID: RG78A
Data file 2: /chem3/pid3.i/20100809-1.b/0809a021.d Client ID: PSB9A-11-13.5-07301
Method: /chem3/pid3.i/20100809-1.b/PIDB.m Injection Date: 09-AUG-2010 15:25
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.441	0.032	7378	87567	102.5	TFT(Surr)
14.912	0.023	4432	35513	102.9	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	1043	0.001
8015B 2MP-TMB (4.93 to 15.58)	1664107	2108	0.001
AK101 nC6-nC10 (5.41 to 14.53)	1131784	2107	0.002
NWTPHG Tol-Nap (10.17 to 18.18)	882029	1043	0.001

M Indicates manual integration within range

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

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.440	0.032	20637	93.9	TFT(Surr)
14.910	0.023	43633	95.7	BB(Surr)

SW8021 (PID)

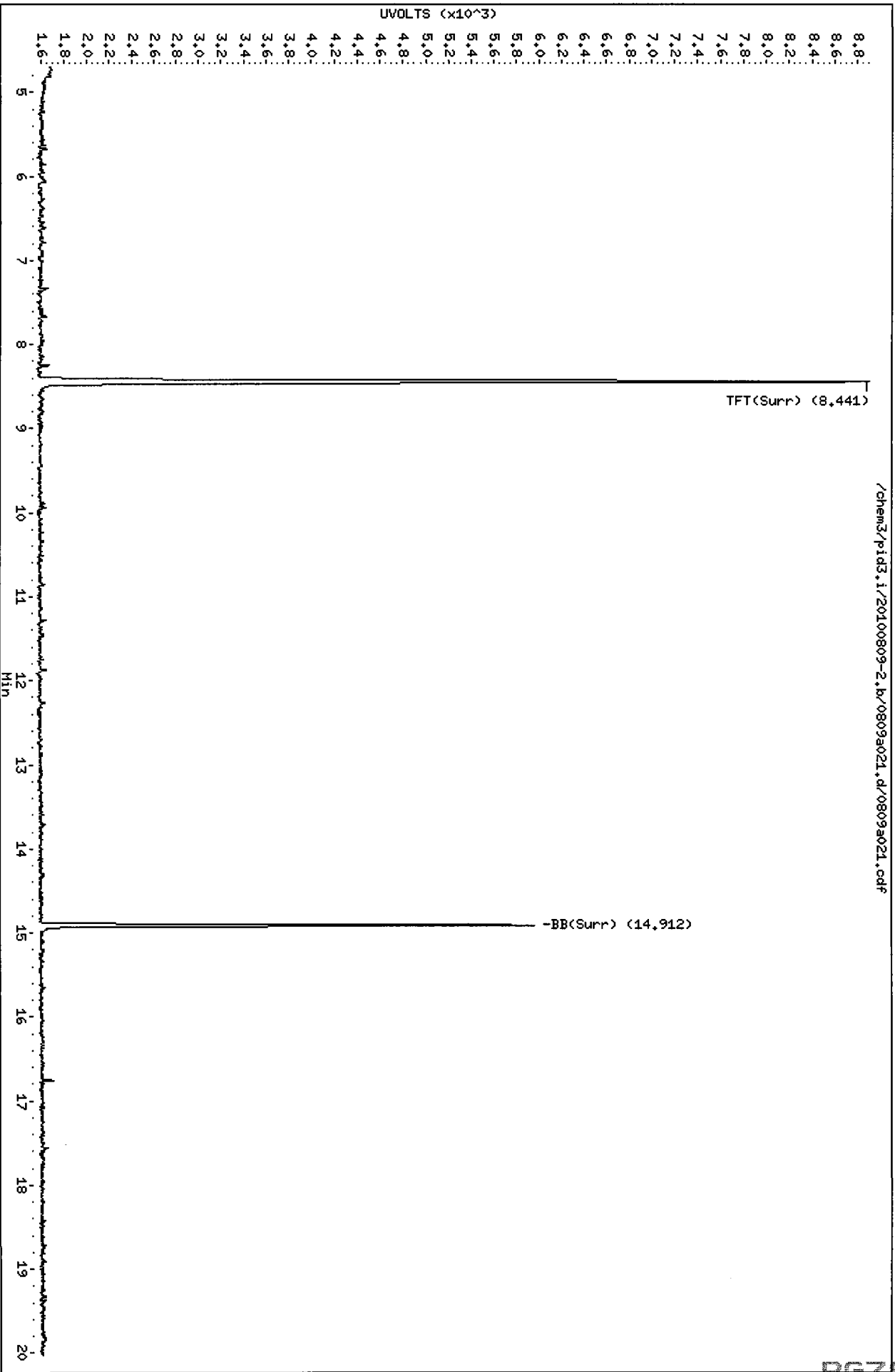
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

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

Data File: /chem3/pid3.i/20100809-2.b/0809a021.d
Date : 09-AUG-2010 15:25
Client ID: PSB9A-11-13.5-07301
Sample Info: RG78A

Column phase: RTX 502-2 FID

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

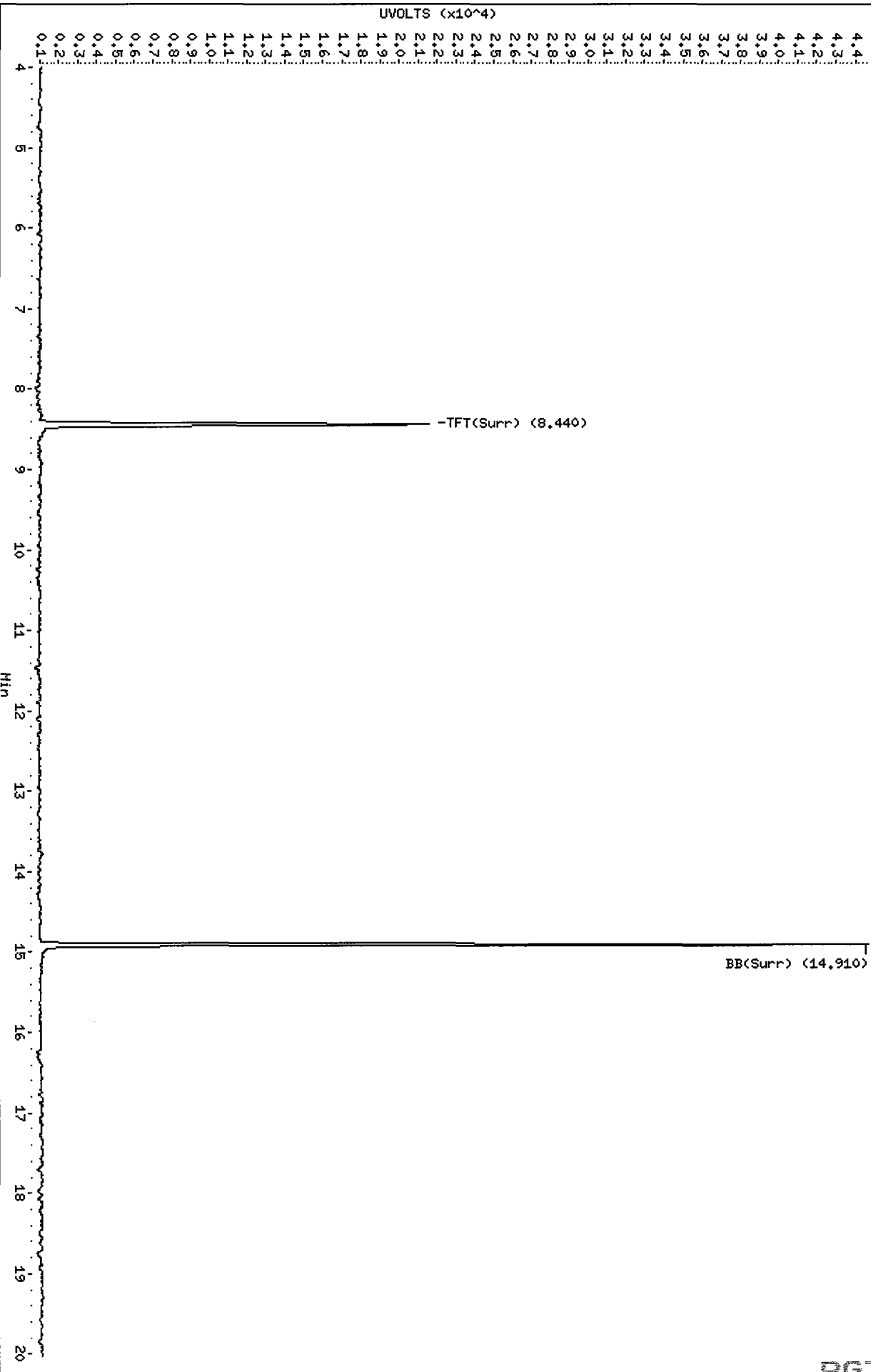


Data File: /chem3/pid3.i/20100809-1.b/0809a021.d
Date: 09-AUG-2010 15:25
Client ID: PSB90-11-13.5-07301
Sample Info: RG789

Column phase: RTX 502-2 PID

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

/chem3/pid3.i/20100809-1.b/0809a021.d/0809a021.cdf



4/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100809-2.b/0809a022.d ARI ID: RG78B
Data file 2: /chem3/pid3.i/20100809-1.b/0809a022.d Client ID: PSB9A-1.5-2-073010
Method: /chem3/pid3.i/20100809-1.b/PIDB.m Injection Date: 09-AUG-2010 15:50
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	-----	-----
8.441	0.032	7249	86117	100.7	TFT (Surr)
14.912	0.024	4352	36321	101.1	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	-----	-----	-----
WAGas Tol-C12 (10.17 to 17.11)	827807	3215	0.004
8015B 2MP-TMB (4.93 to 15.58)	1664107	3216	0.002
AK101 nC6-nC10 (5.41 to 14.53)	1131784	3216	0.003
NWTPHG Tol-Nap (10.17 to 18.18)	882029	3215	0.004

M Indicates manual integration within range

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

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	-----	-----
8.440	0.032	20361	92.6	TFT (Surr)
14.911	0.024	42569	93.4	BB (Surr)

SW8021 (PID)

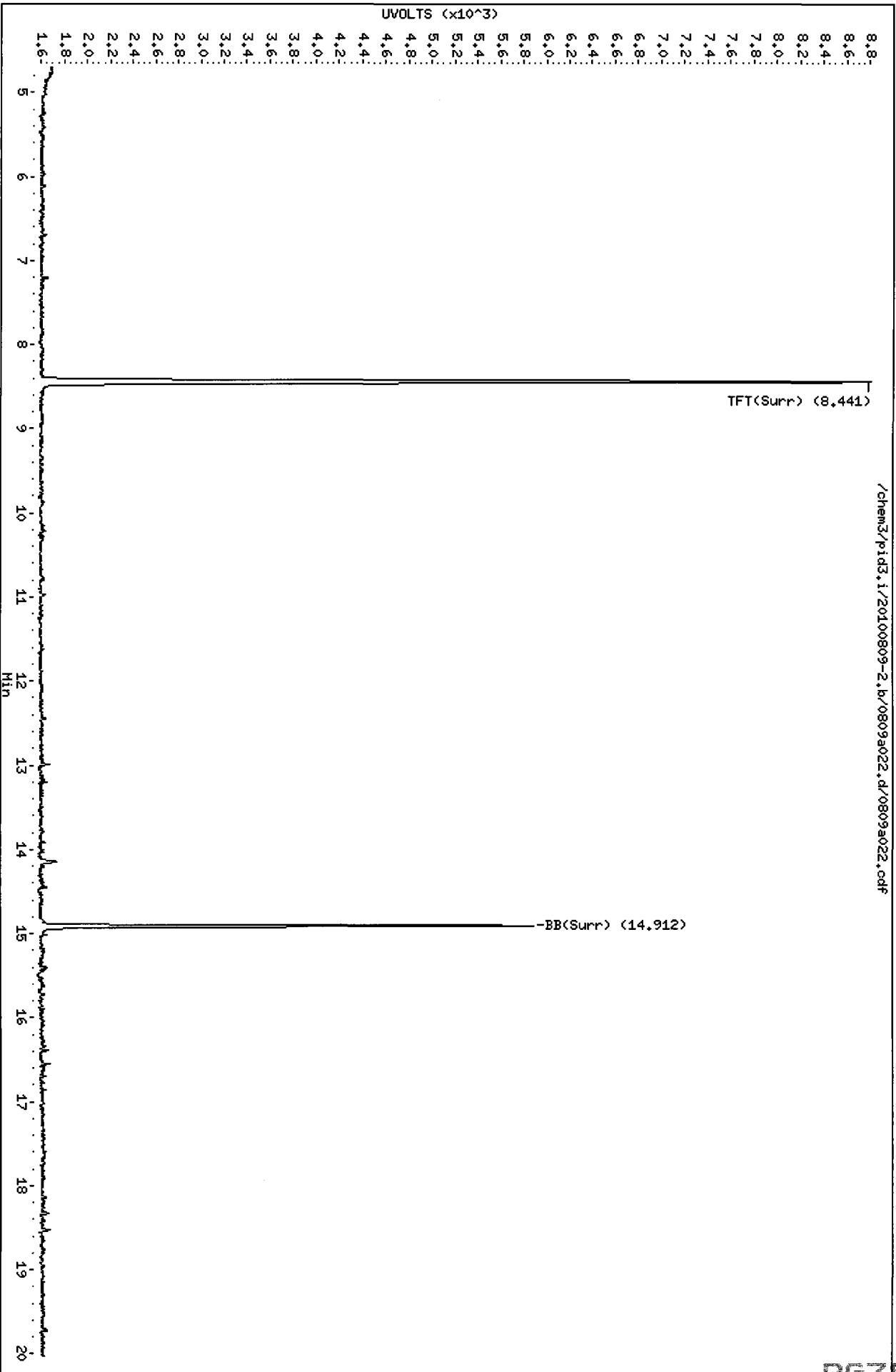
RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

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

Data File: /chem3/pid3.i/20100809-2.b/0809a022.d
Date: 09-AUG-2010 15:50
Client ID: PSB94-1.5-2-073010
Sample Info: RG788

Column phase: RTX 502-2 FID

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



Data File: /chem3/pid3.i/20100809-1.b/0809a022.d

Date : 09-AUG-2010 15:50

Client ID: PSB9A-1.5-2-073010

Sample Info: RG78B

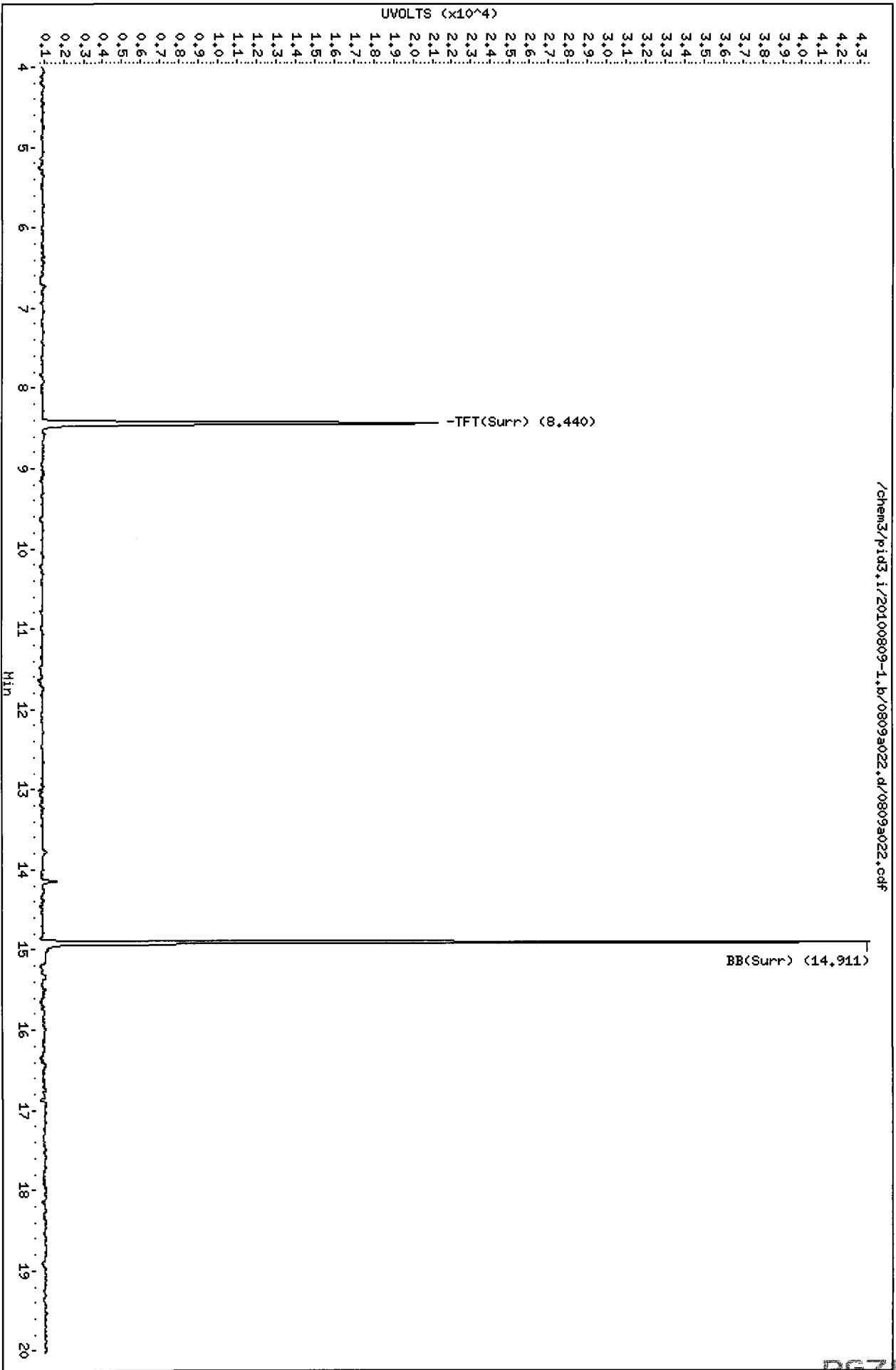
Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

/chem3/pid3.i/20100809-1.b/0809a022.d/0809a022.cdf



M
8/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100809-2.b/0809a024.d ARI ID: GCAL 3
Data file 2: /chem3/pid3.i/20100809-1.b/0809a024.d Client ID:
Method: /chem3/pid3.i/20100809-1.b/PIDB.m Injection Date: 09-AUG-2010 16:39
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.440	0.031	7390	87843	102.7	TFT(Surr)
14.912	0.024	4465	38342	103.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	1944532	2.349 M
8015B 2MP-TMB (4.93 to 15.58)	1664107	3873074	2.327 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	2595428	2.293 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	2053311	2.328 M

M Indicates manual integration within range

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

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.438	0.030	20639	93.9	TFT(Surr)
14.909	0.022	43897	96.3	BB(Surr)

SW8021 (PID)

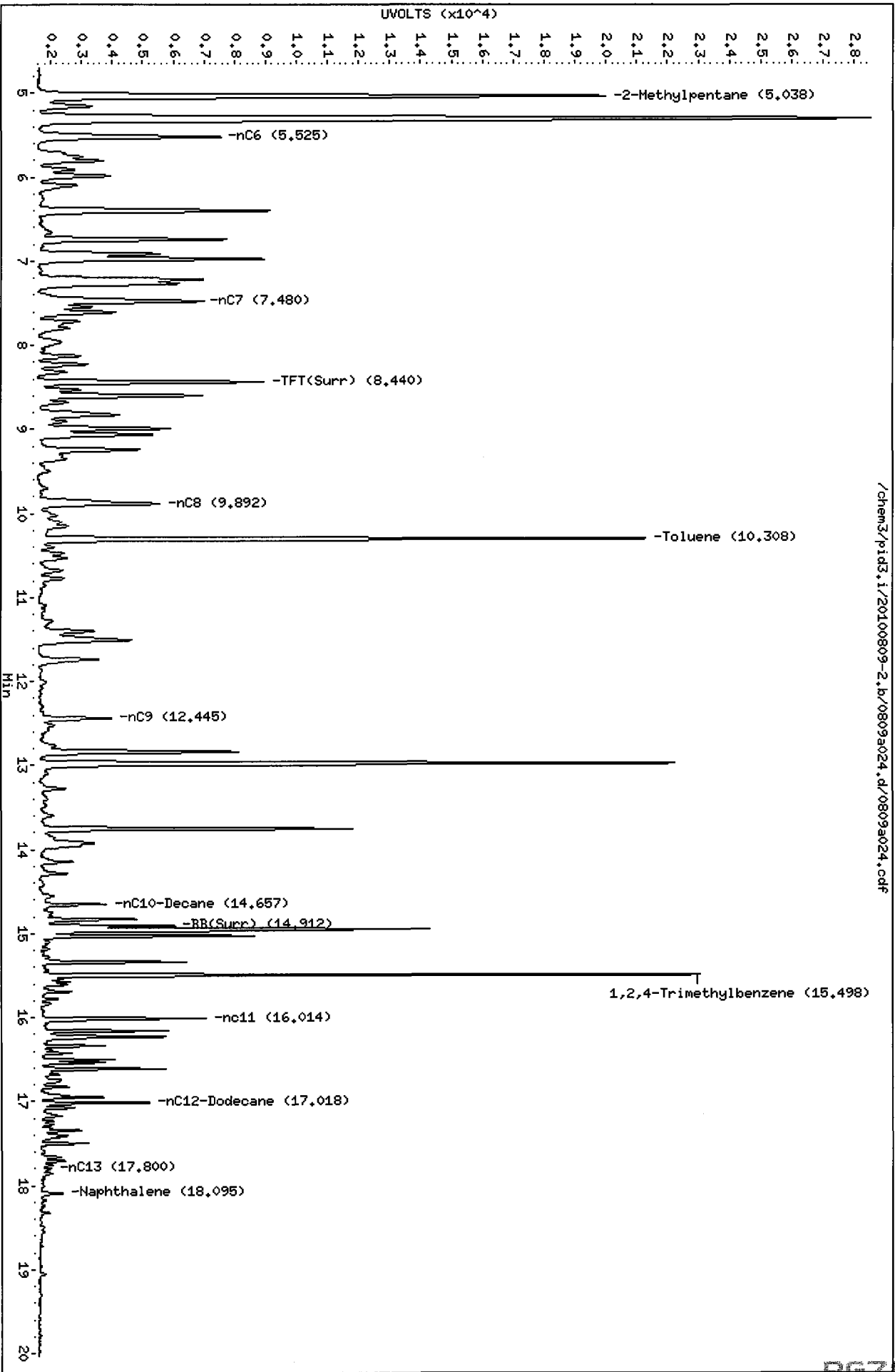
RT	Shift	Response	Amount	Compound
7.716	0.027	6826	5.16	Benzene
10.306	0.034	92315	69.94	Toluene
12.841	0.035	26557	21.37	Ethylbenzene
12.981	0.039	102949	76.45	M/P-Xylene
13.756	0.031	43013	33.48	O-Xylene
5.308	0.017	80767	227.00	MTBE

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

Data File: /chem3/pid3.i/20100809-2.b/0809a024.d
Date : 09-AUG-2010 16:39
Client ID: LORA LAKE
Sample Info: GCAL 3

Column phase: RTX 502-2 FID

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

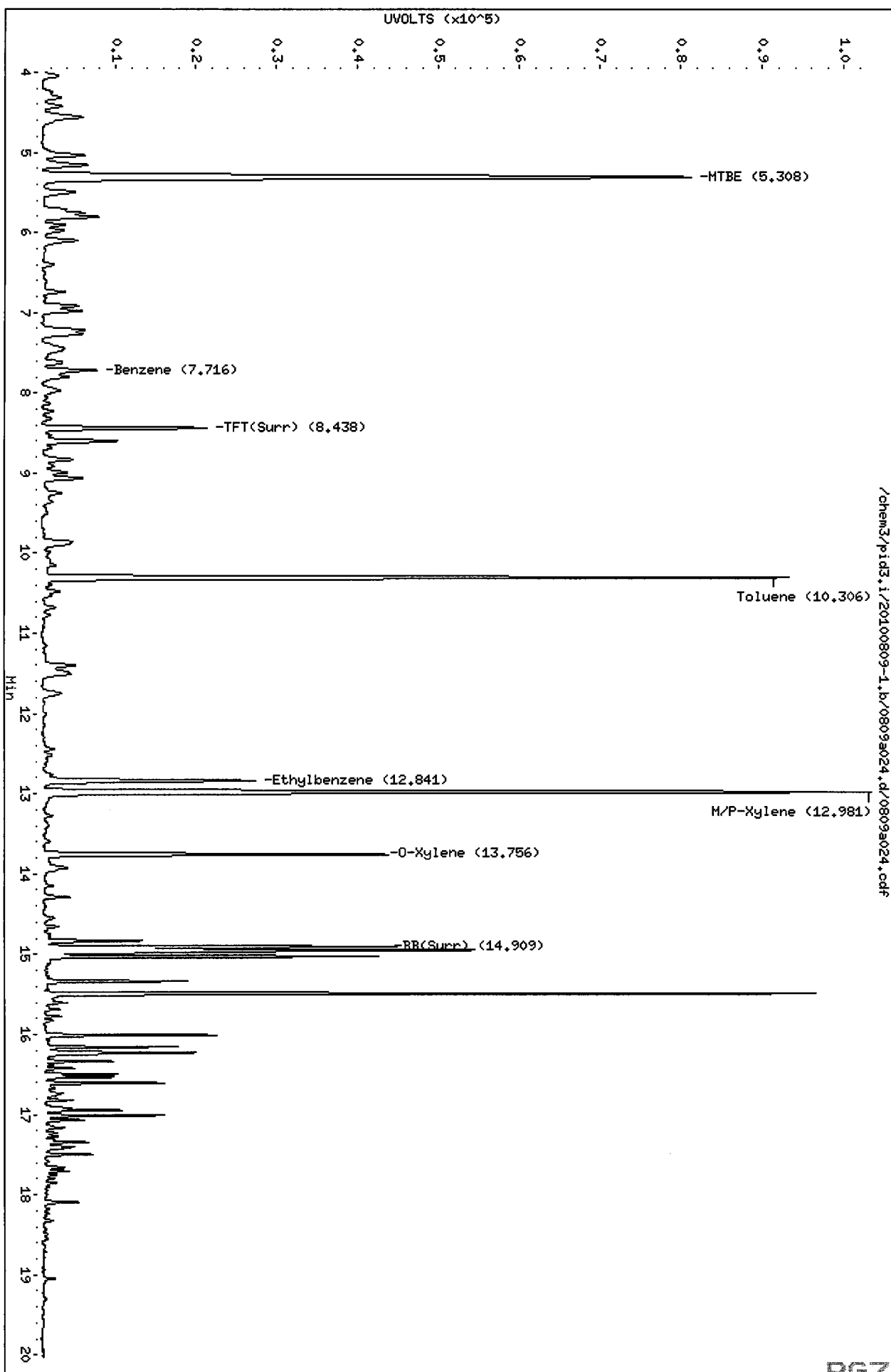


/chem3/pid3.i/20100809-2.b/0809a024.d/0809a024.cdf

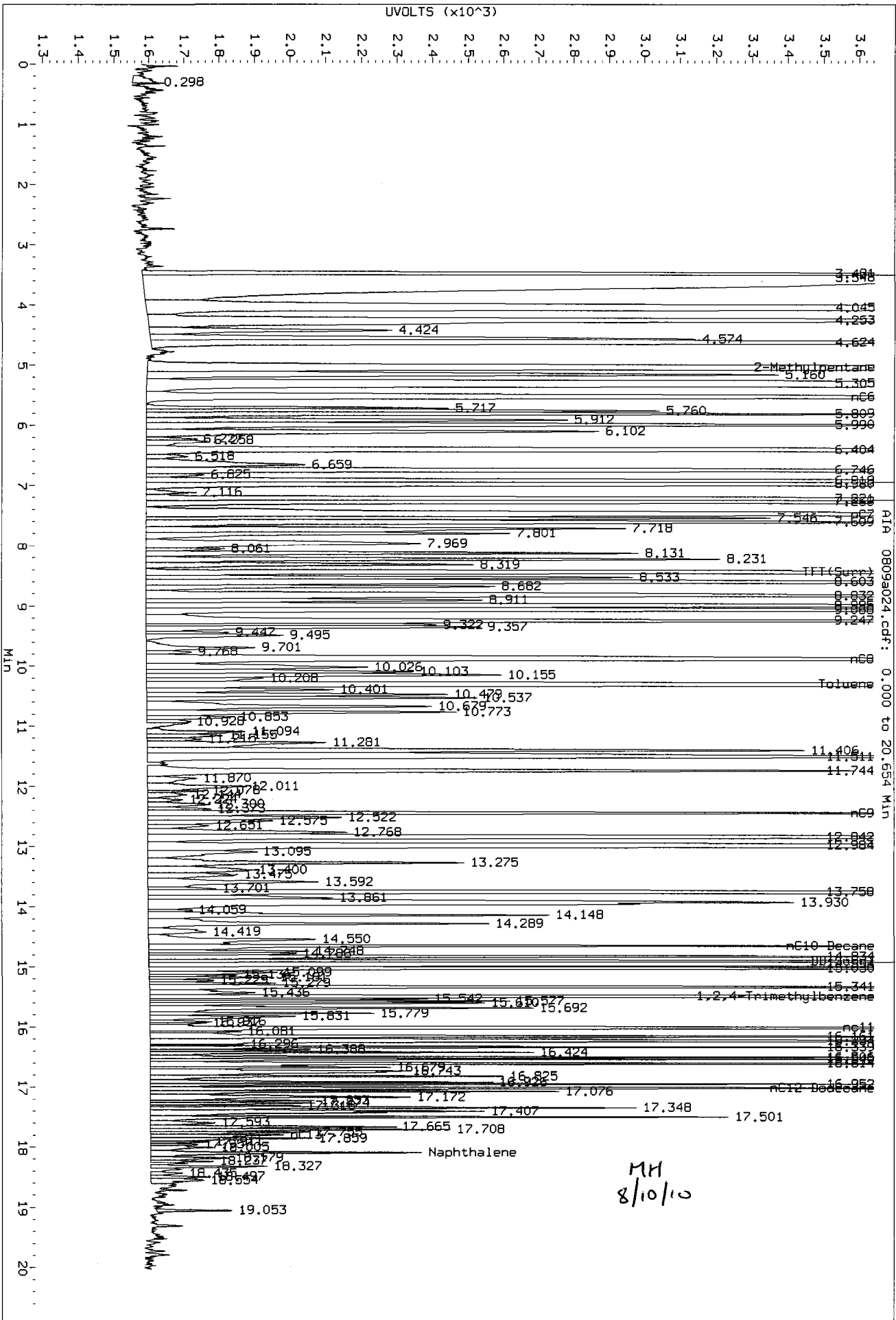
Data File: /chem3/pid3.i/20100809-1.b/0809s024.d
Date : 09-AUG-2010 16:39
Client ID:
Sample Info: GCAL 3

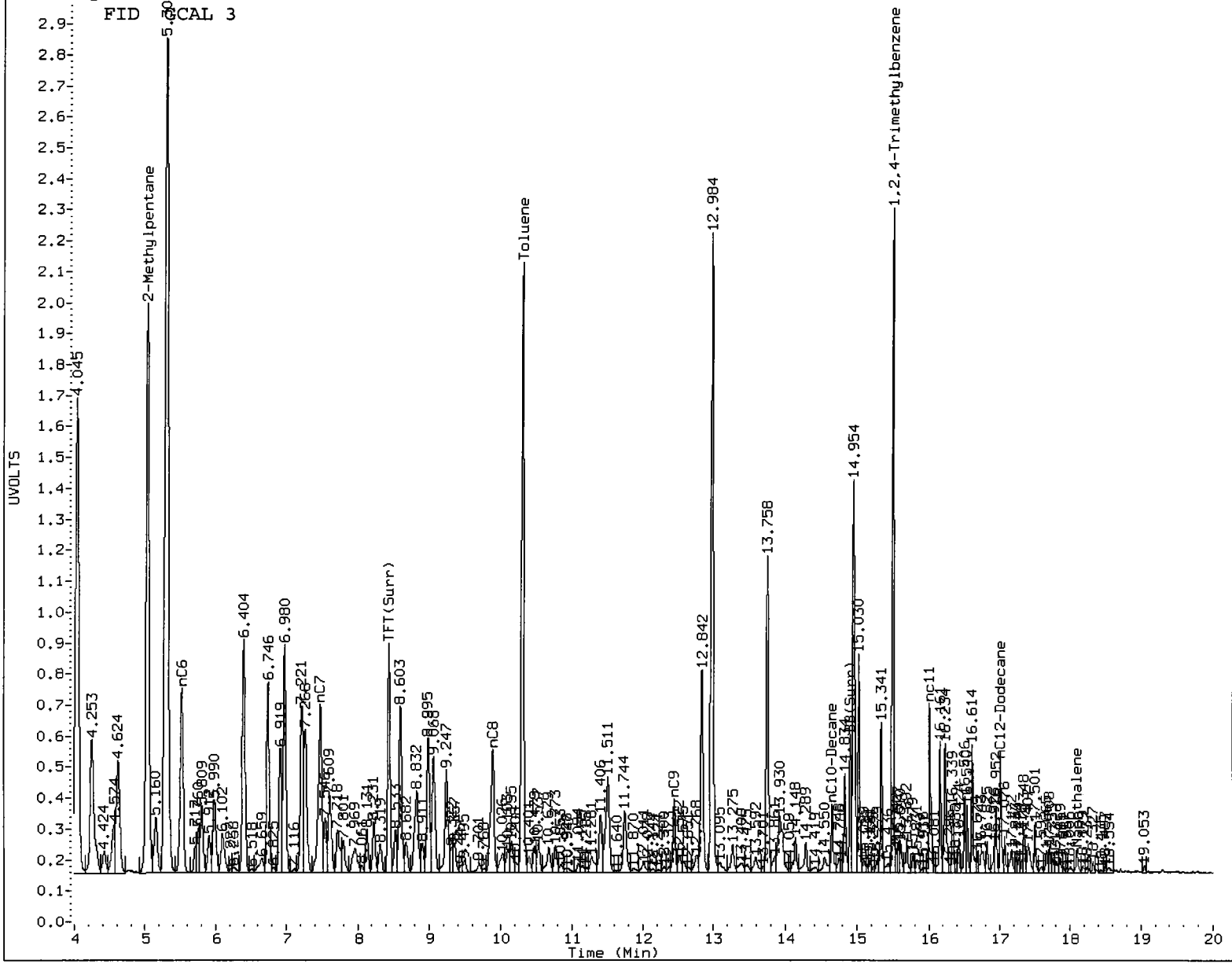
Column phase: RTX 502-2 PID

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



Data File: /chem3/p1d3.1/20100809-2.b/0809a024.d/0809a024.cdf
 Injection Date: 09-AUG-2010 16:39
 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: 8/10/10

M.
8/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100809-2.b/0809a025.d ARI ID: RG78D
Data file 2: /chem3/pid3.i/20100809-1.b/0809a025.d Client ID: PSB9A-4-6-073010
Method: /chem3/pid3.i/20100809-1.b/PIDB.m Injection Date: 09-AUG-2010 17:04
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	-----	-----
8.442	0.033	6990	82128	97.1	TFT (Surr)
14.912	0.024	4323	35977	100.4	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	-----	-----	-----
WAGas Tol-C12 (10.17 to 17.11)	827807	5348	0.006
8015B 2MP-TMB (4.93 to 15.58)	1664107	8745	0.005
AK101 nC6-nC10 (5.41 to 14.53)	1131784	7735	0.007
NWTPHG Tol-Nap (10.17 to 18.18)	882029	7234	0.008

M Indicates manual integration within range

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

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	-----	-----
8.441	0.033	19782	90.0	TFT (Surr)
14.910	0.023	42399	93.0	BB (Surr)

SW8021 (PID)

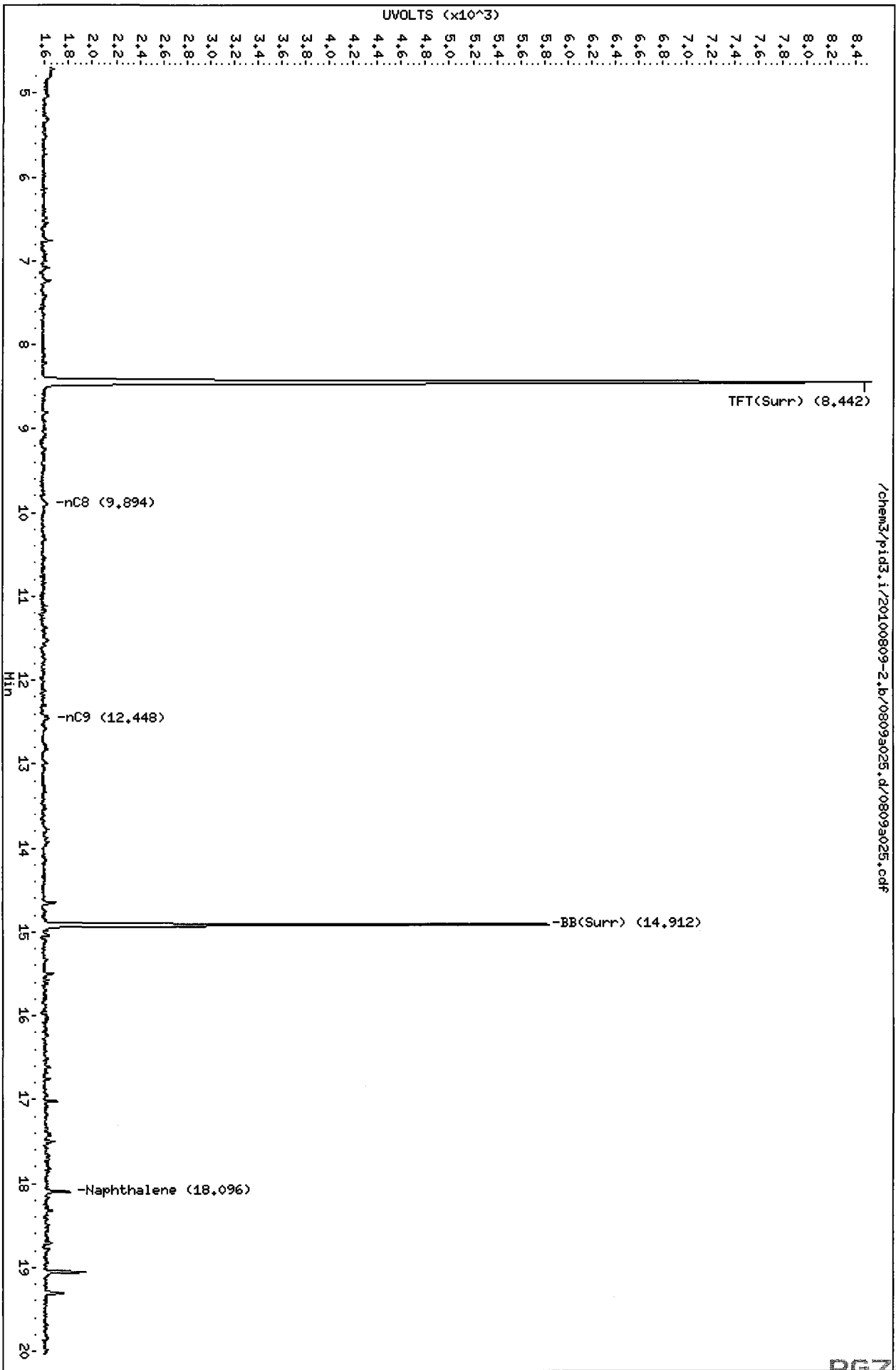
RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

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

Data File: /chem3/pid3.i/20100809-2.b/0809a025.d
Date: 09-AUG-2010 17:04
Client ID: PSB9A-4-6-073010
Sample Info: RG78D

Column phase: RTX 502-2 FID

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

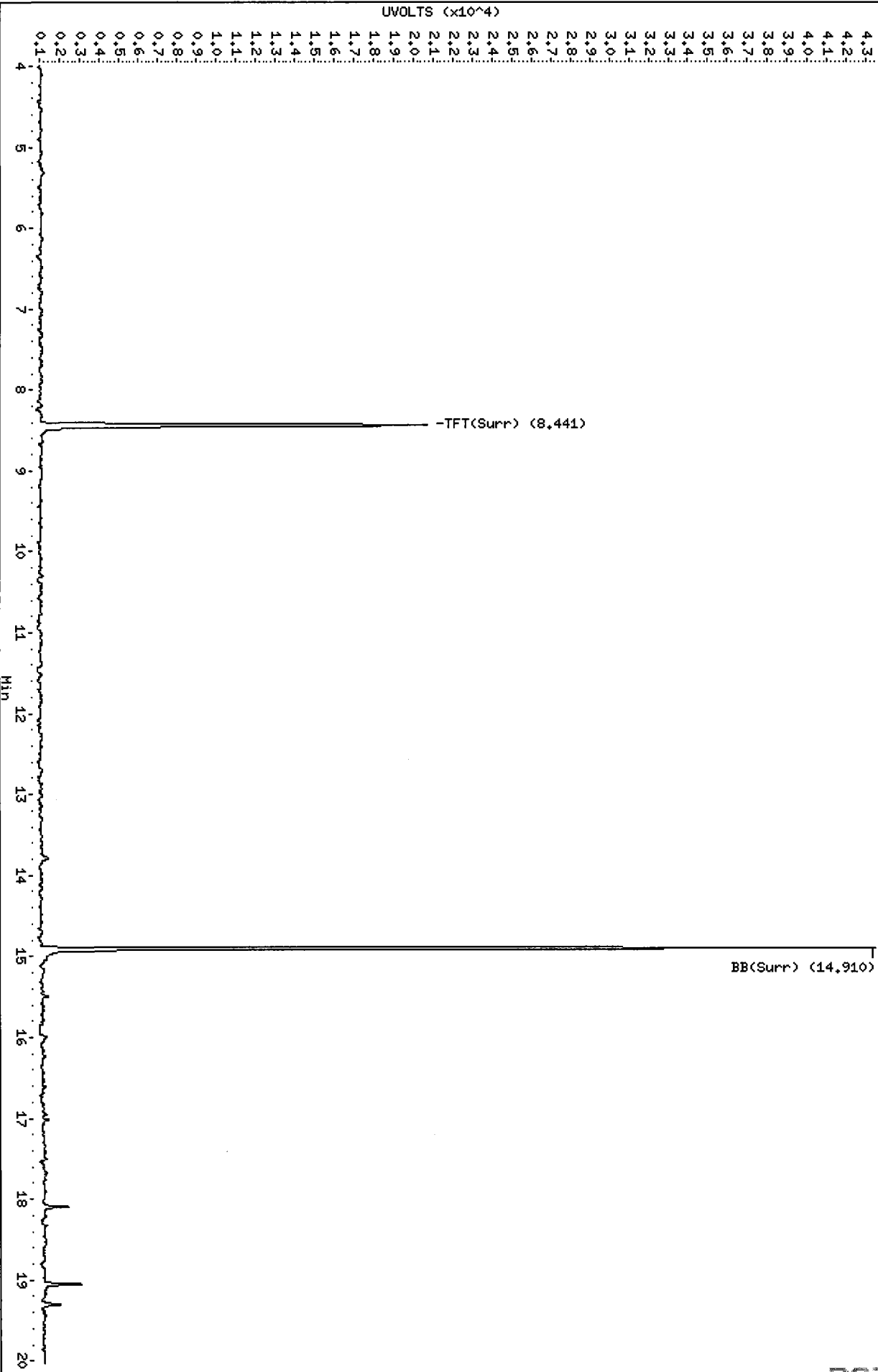


Data File: /chem3/pid3.i/20100809-1.b/0809a025.d
Date: 09-AUG-2010 17:04
Client ID: PSB9A-4-6-073010
Sample Info: RG78D

Column phase: RTX 502-2 PID

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

/chem3/pid3.i/20100809-1.b/0809a025.d/0809a025.cdf



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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100809-2.b/0809a026.d ARI ID: RG78F
Data file 2: /chem3/pid3.i/20100809-1.b/0809a026.d Client ID: PSB10-0-0.5-073010
Method: /chem3/pid3.i/20100809-1.b/PIDB.m Injection Date: 09-AUG-2010 17:28
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.442	0.032	6921	81643	96.2	TFT(Surr)
14.912	0.024	4277	34788	99.3	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	14913	0.018
8015B 2MP-TMB (4.93 to 15.58)	1664107	5881	0.004
AK101 nC6-nC10 (5.41 to 14.53)	1131784	3367	0.003
NWTPHG Tol-Nap (10.17 to 18.18)	882029	17167	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
8.440	0.032	19340	88.0	TFT(Surr)
14.910	0.023	42146	92.4	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

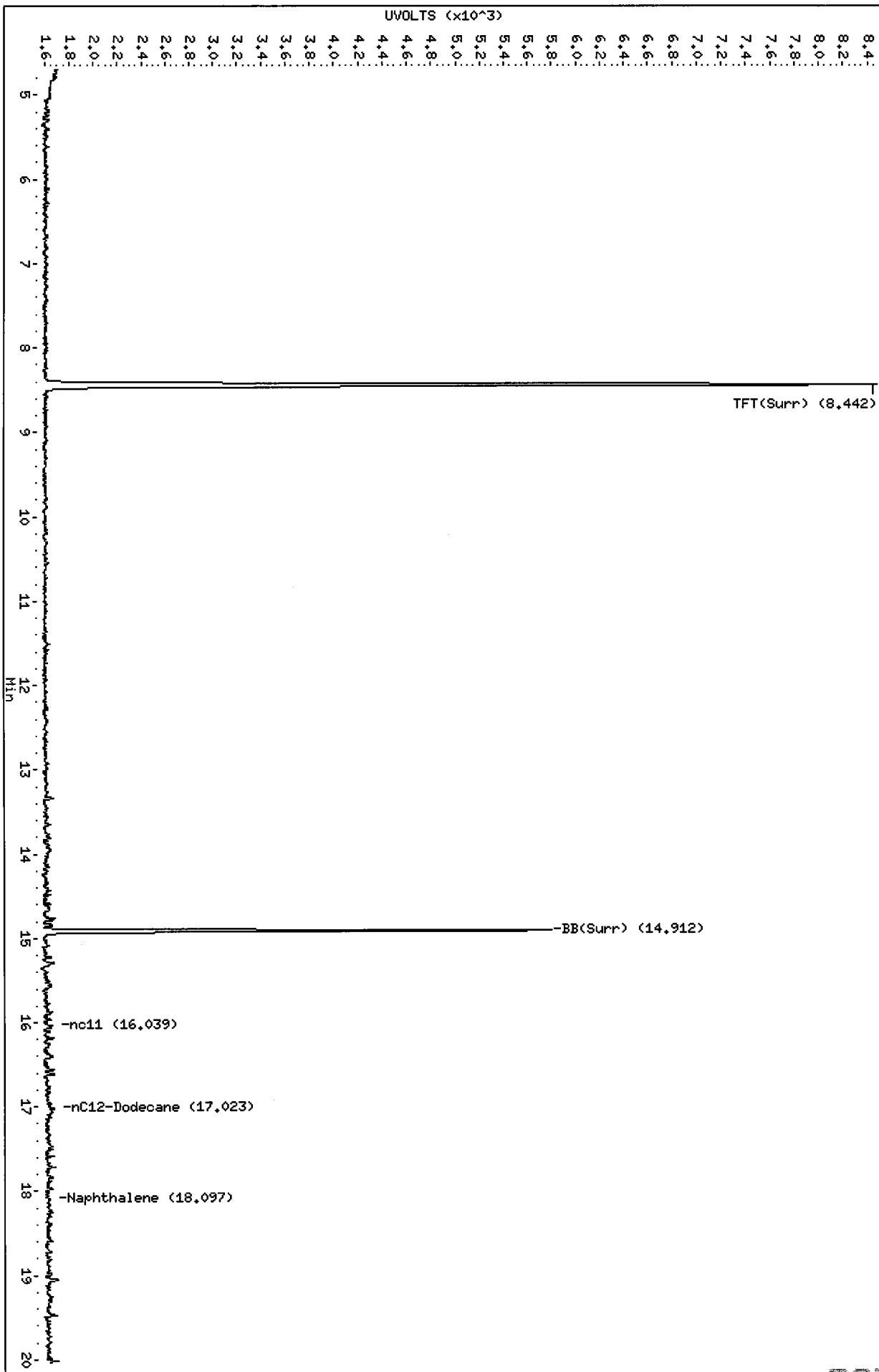
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100809-2.b/0809a026.d
Date: 09-AUG-2010 17:28
Client ID: PSB10-0-0,5-073010
Sample Info: RG78F

Column phase: RTX 502-2 FID

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

/chem3/pid3.i/20100809-2.b/0809a026.d/0809a026.cdf

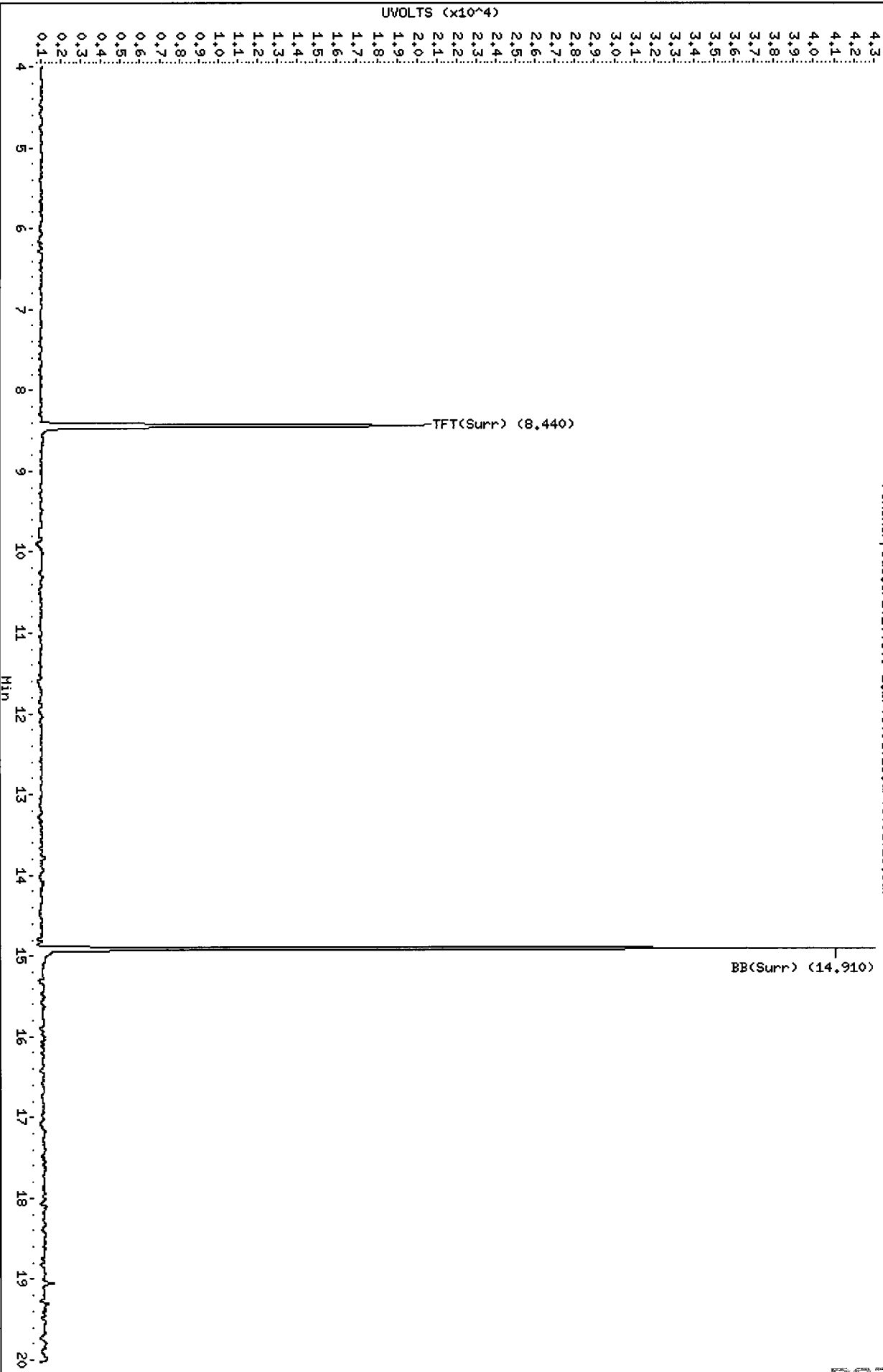


Data File: /chem3/pid3.i/20100809-1.b/0809a026.d
Date: 09-AUG-2010 17:28
Client ID: PSB10-0-0.5-073010
Sample Info: RC78F

Column phase: RTX 502-2 PID

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

/chem3/pid3.i/20100809-1.b/0809a026.d/0809a026.cdf



3
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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100809-2.b/0809a027.d ARI ID: RG78H
Data file 2: /chem3/pid3.i/20100809-1.b/0809a027.d Client ID: PSB10-2-4-073010
Method: /chem3/pid3.i/20100809-1.b/PIDB.m Injection Date: 09-AUG-2010 17:53
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	----	----	-----
8.441	0.032	7105	84607	98.7	TFT (Surr)
14.912	0.023	4324	36006	100.4	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (10.17 to 17.11)	827807	7314	0.009
8015B 2MP-TMB (4.93 to 15.58)	1664107	11901	0.007
AK101 nC6-nC10 (5.41 to 14.53)	1131784	10680	0.009
NWTPHG Tol-Nap (10.17 to 18.18)	882029	7314	0.008

M Indicates manual integration within range

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

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	----	-----
8.440	0.032	19864	90.4	TFT (Surr)
14.910	0.023	42887	94.1	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
12.985	0.042	481	0.36	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

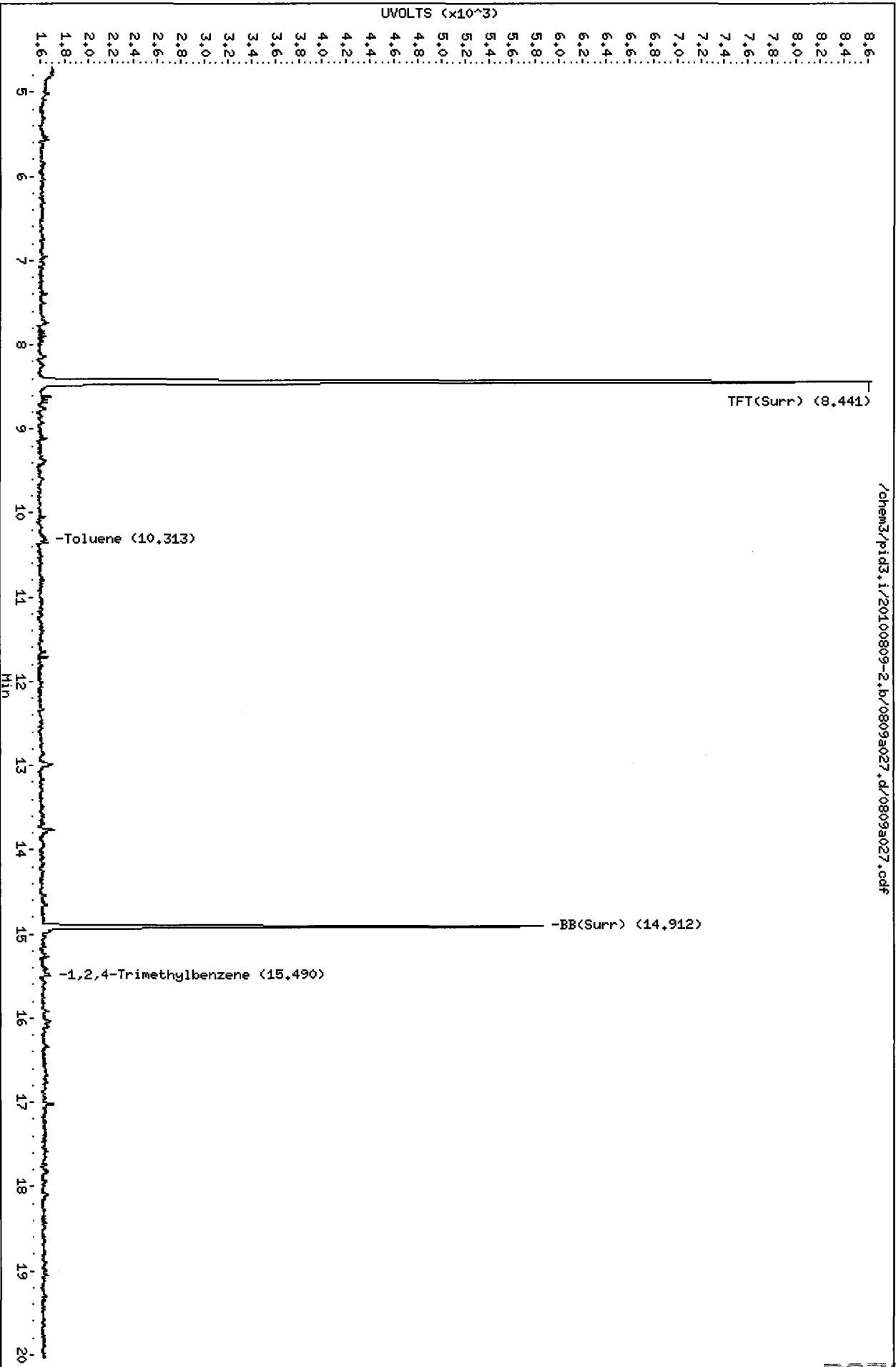
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100809-2.b/0809a027.d
Date: 09-AUG-2010 17:53
Client ID: PSB10-2-4-073010
Sample Info: RG78H

Column phase: RTX 502-2 FID

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

/chem3/pid3.i/20100809-2.b/0809a027.d/0809a027.cdf

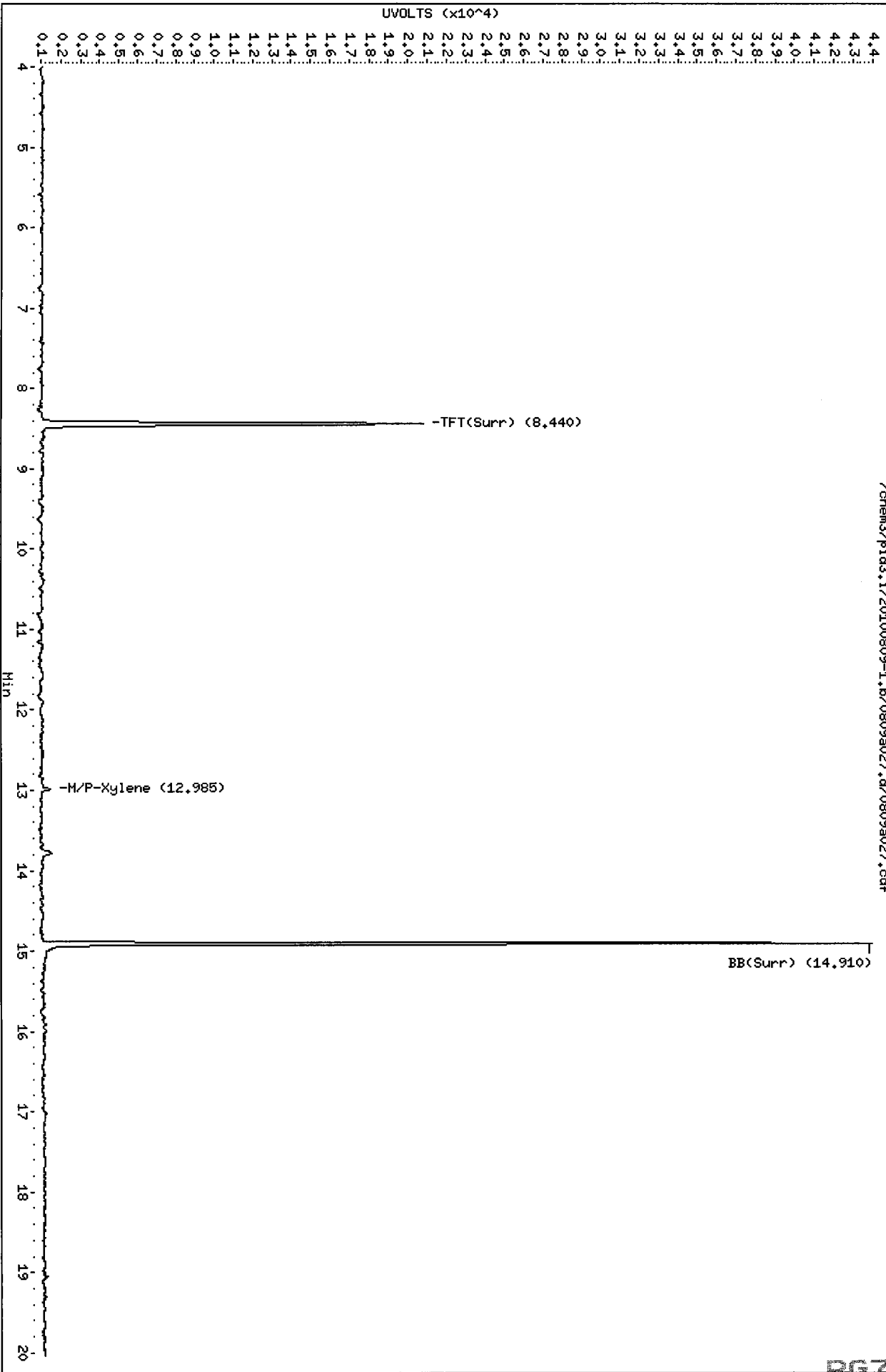


Data File: /chem3/pid3.i/20100809-1.b/0809a027.d
Date: 09-AUG-2010 17:53
Client ID: PSB10-2-4-073010
Sample Info: RG78H

Column phase: RTX 502-2 PID

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

/chem3/pid3.i/20100809-1.b/0809a027.d/0809a027.cdf



Mr. 8/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100809-2.b/0809a028.d ARI ID: RG78I
Data file 2: /chem3/pid3.i/20100809-1.b/0809a028.d Client ID: PSB10-4-6-073010
Method: /chem3/pid3.i/20100809-1.b/PIDB.m Injection Date: 09-AUG-2010 18:17
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	----	-----
8.445	0.036	6803	81256	94.5	TFT (Surr)
14.913	0.025	4251	34433	98.7	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (10.17 to 17.11)	827807	2049	0.002
8015B 2MP-TMB (4.93 to 15.58)	1664107	2	0.000
AK101 nC6-nC10 (5.41 to 14.53)	1131784	1	0.000
NWTPHG Tol-Nap (10.17 to 18.18)	882029	6042	0.007

M Indicates manual integration within range

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

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	----	-----
8.444	0.035	19104	86.9	TFT (Surr)
14.912	0.025	41363	90.7	BB (Surr)

SW8021 (PID)

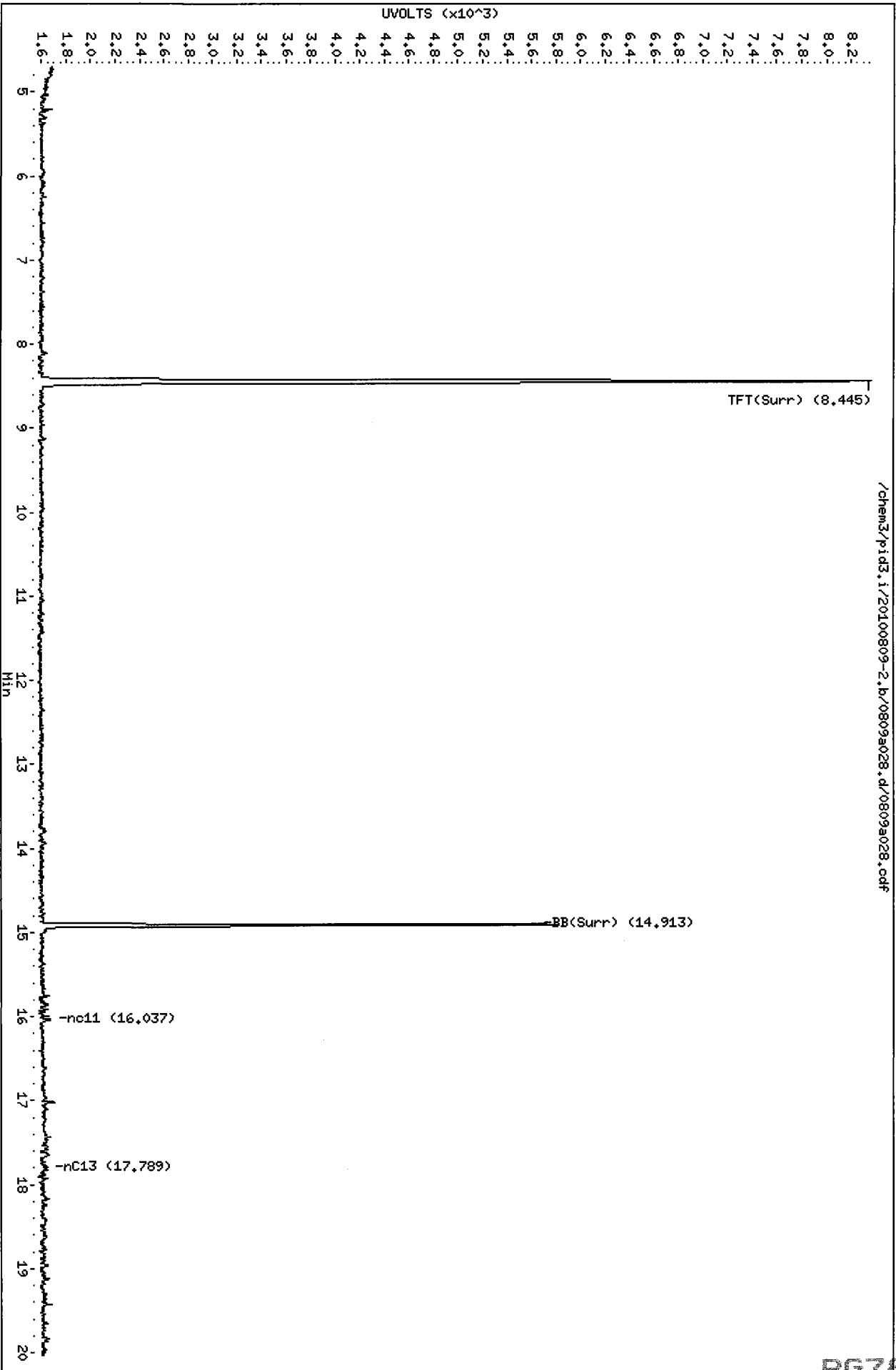
RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

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

Data File: /chem3/pid3.i/20100809-2.b/0809a028.d
Date : 09-AUG-2010 18:17
Client ID: PSB10-4-6-073010
Sample Info: RG781

Column phase: RTX 502-2 FID

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

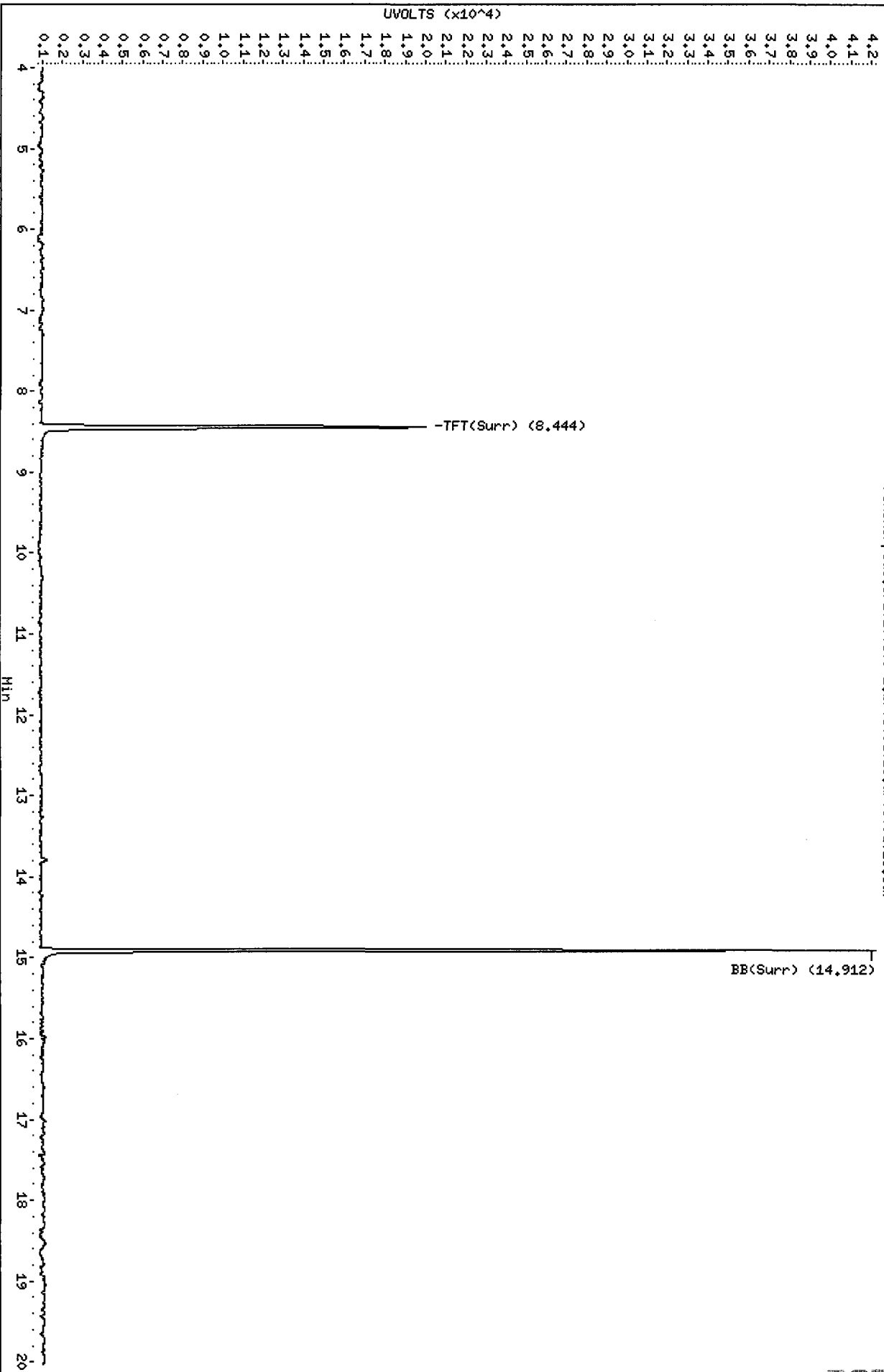


Data File: /chem3/pid3.i/20100809-1.b/0809a028.d
Date : 09-AUG-2010 18:17
Client ID: PSB10-4-6-073010
Sample Info: RG781

Column phase: RTX 502-2 PID

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

/chem3/pid3.i/20100809-1.b/0809a028.d/0809a028.cdf



8/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100809-2.b/0809a029.d
Data file 2: /chem3/pid3.i/20100809-1.b/0809a029.d
Method: /chem3/pid3.i/20100809-1.b/PIDB.m
Instrument: pid3.i
Gas Ical Date: 28-JUL-2010
BETX Ical Date: 29-JUN-2010

ARI ID: Rf78J
Client ID: ⁶MM s/o
Injection Date: 09-AUG-2010 18:42
Matrix: WATER
Dilution Factor: 1.000

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.442	0.033	6744	80029	93.7	TFT (Surr)
14.912	0.024	4174	34704	96.9	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	2686	0.003
8015B 2MP-TMB (4.93 to 15.58)	1664107	2687	0.002
AK101 nC6-nC10 (5.41 to 14.53)	1131784	2687	0.002
NWTPHG Tol-Nap (10.17 to 18.18)	882029	2686	0.003

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.441	0.033	18807	85.6	TFT (Surr)
14.911	0.024	40613	89.1	BB (Surr)

SW8021 (PID)

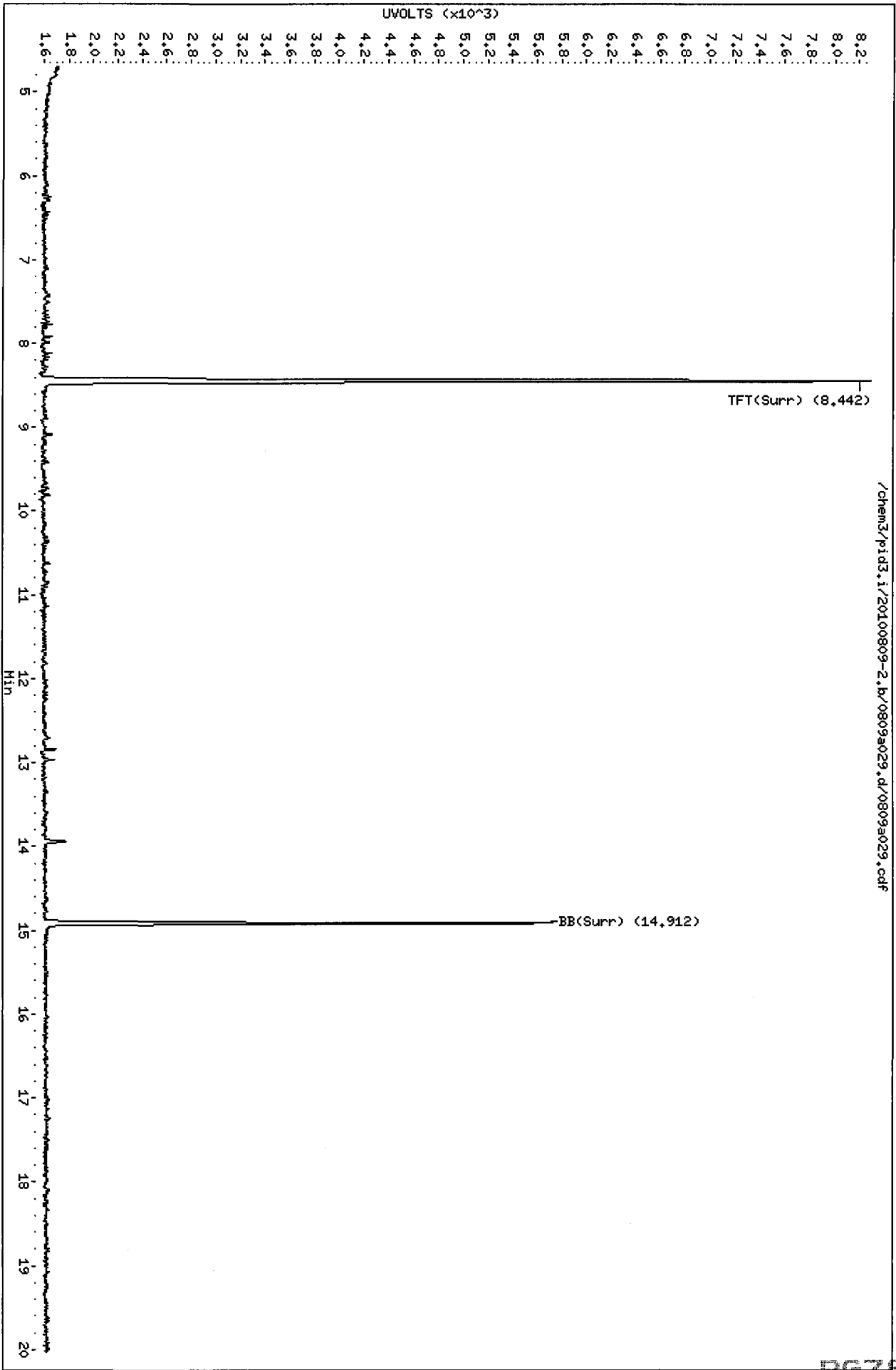
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

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

Data File: /chem3/pid3.i/20100809-2.b/0809a029.d
Date: 09-AUG-2010 18:42
Client ID: 5
Sample Info: R178J
5/14
Column phase: RTX 502-2 FID

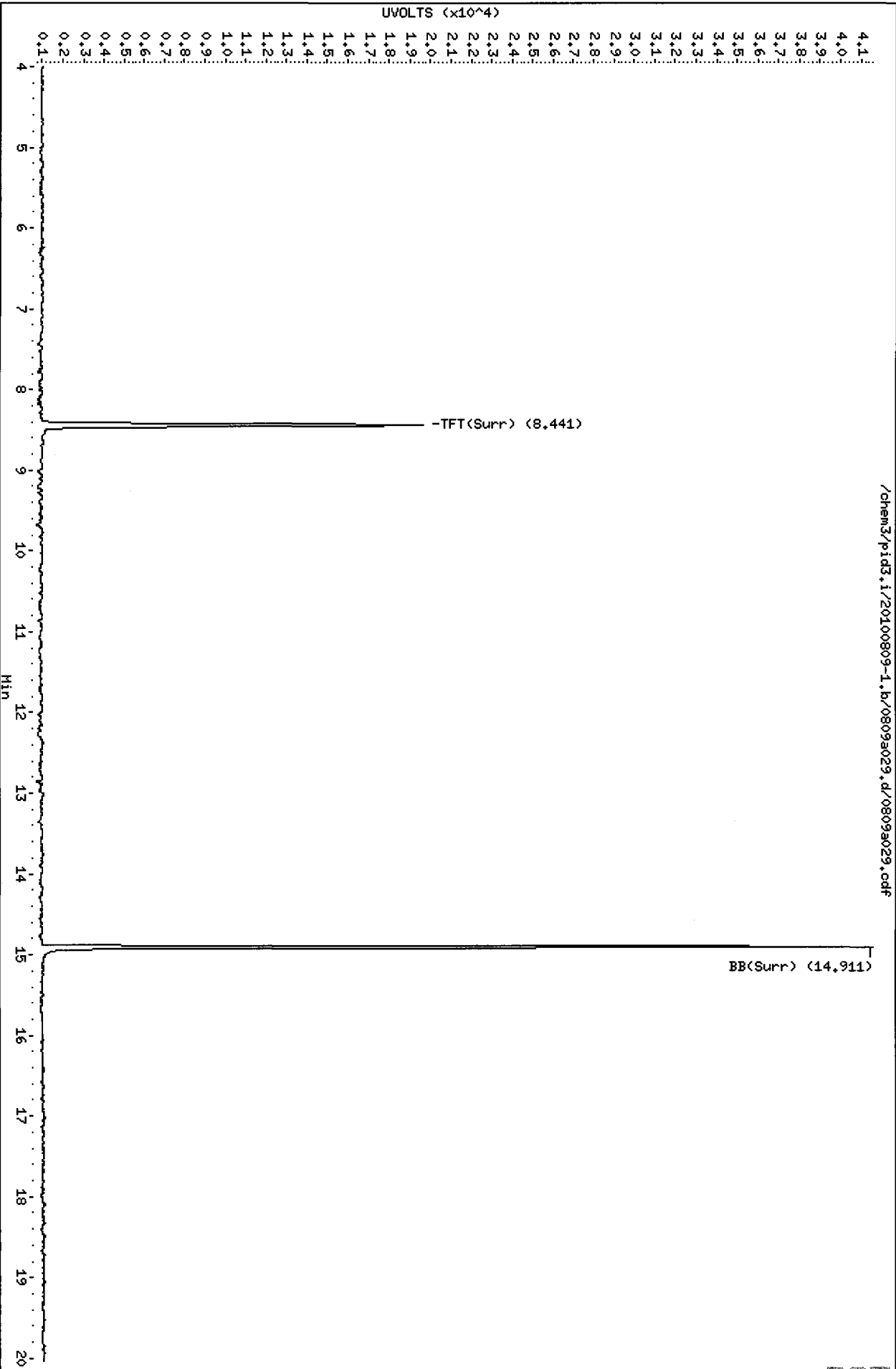
Instrument: pid3.i
Operator: MH
Column diameter: 0.18

/chem3/pid3.i/20100809-2.b/0809a029.d/0809a029.cdf



Data File: /chem3/pid3.i/20100809-1.b/0809a029.d
Date : 09-AUG-2010 18:42
Client ID: G
Sample Info: RM78J
MH
SLS
Column phase: RTX 502-2 PID

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



M
8/10/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100809-2.b/0809a030.d ARI ID: RG78JMS
Data file 2: /chem3/pid3.i/20100809-1.b/0809a030.d Client ID: PSB10-8.5-10-07 MS
Method: /chem3/pid3.i/20100809-1.b/PIDB.m Injection Date: 09-AUG-2010 19:07
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	----	-----
8.441	0.032	6961	82662	96.7	TFT (Surr)
14.912	0.023	4251	34674	98.7	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (10.17 to 17.11)	827807	873084	1.055 M
8015B 2MP-TMB (4.93 to 15.58)	1664107	1703219	1.024 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	1149732	1.016 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	922669	1.046 M

M Indicates manual integration within range

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

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	----	-----
8.440	0.032	19745	89.8	TFT (Surr)
14.910	0.023	42073	92.3	BB (Surr)

SW8021 (PID)

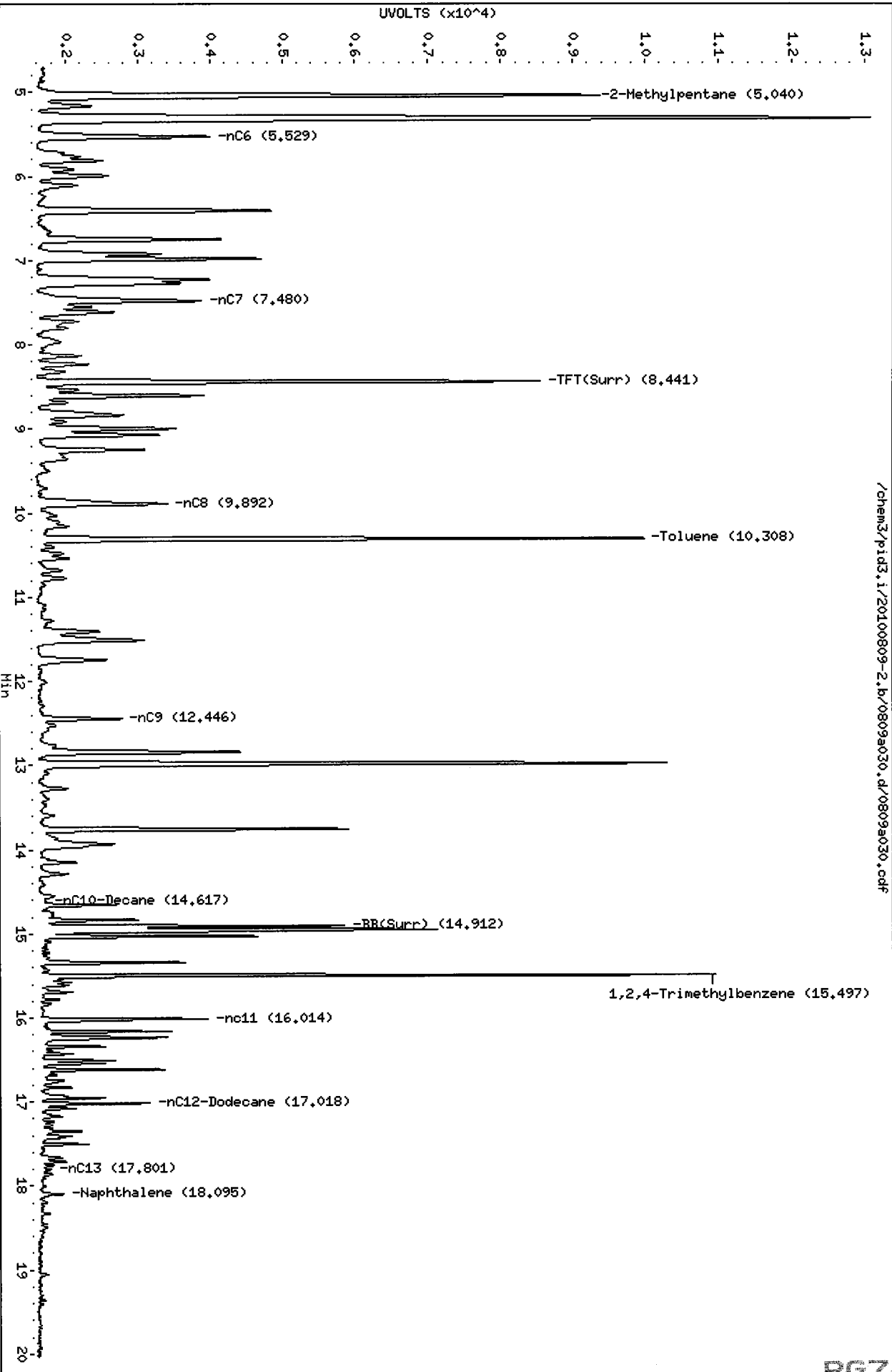
RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
7.718	0.029	2969	2.25	Benzene
10.307	0.034	39366	29.83	Toluene
12.841	0.036	11252	9.06	Ethylbenzene
12.981	0.039	42989	31.92	M/P-Xylene
13.757	0.032	17785	13.84	O-Xylene
5.311	0.020	34513	97.00	MTBE

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

Data File: /chem3/pid3.i/20100809-2.b/0809a030.d
Date: 09-AUG-2010 19:07
Client ID: PSB10-8,5-10-07 HS
Sample Info: RG78JHS

Column phase: RTX 502-2 FID

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

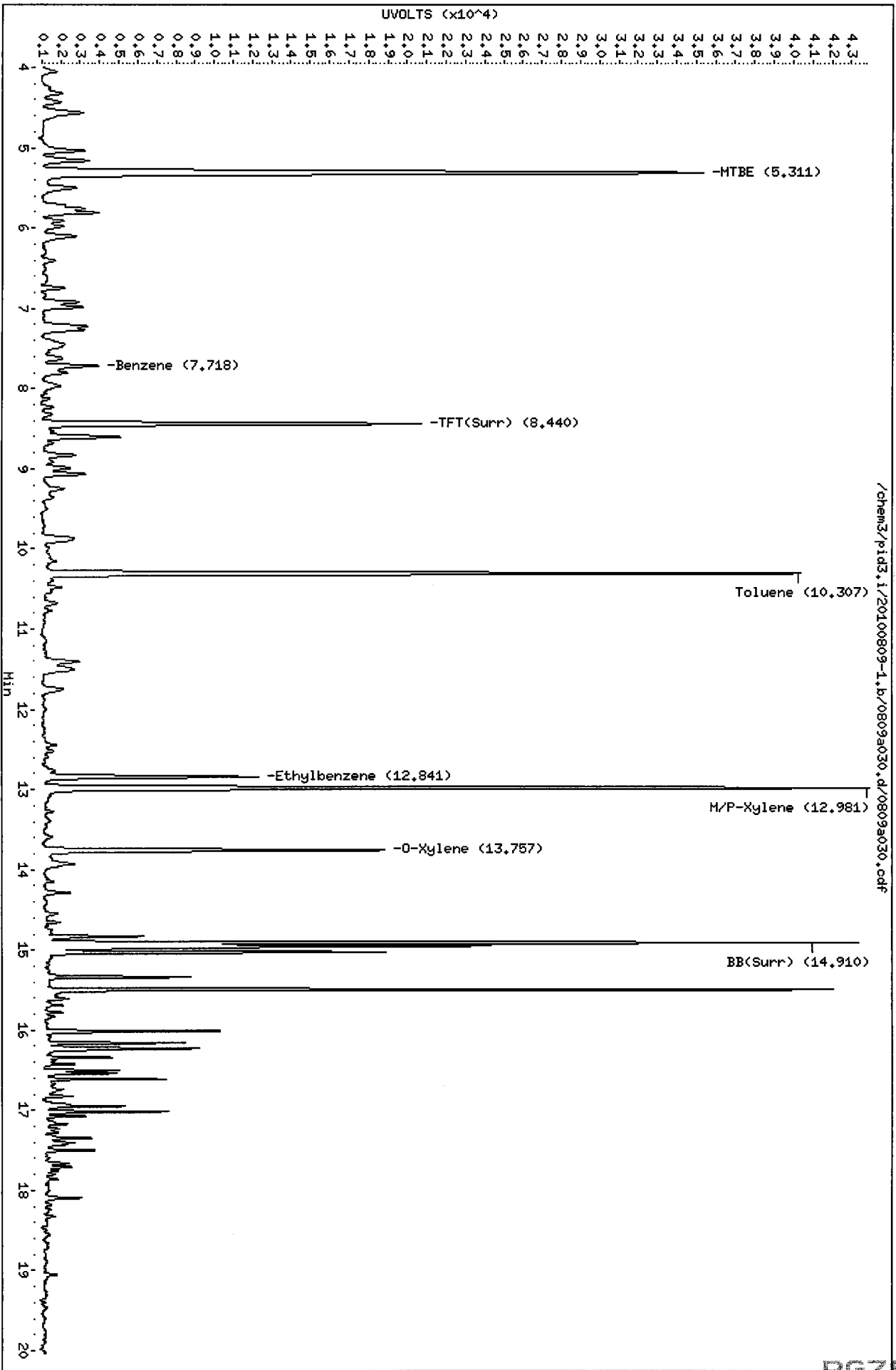


/chem3/pid3.i/20100809-2.b/0809a030.d/0809a030.cdf

Data File: /chem3/pid3.i/20100809-1.b/0809a030.d
Date: 09-AUG-2010 19:07
Client ID: PSB10-8,5-10-07 HS
Sample Info: RG78JMS

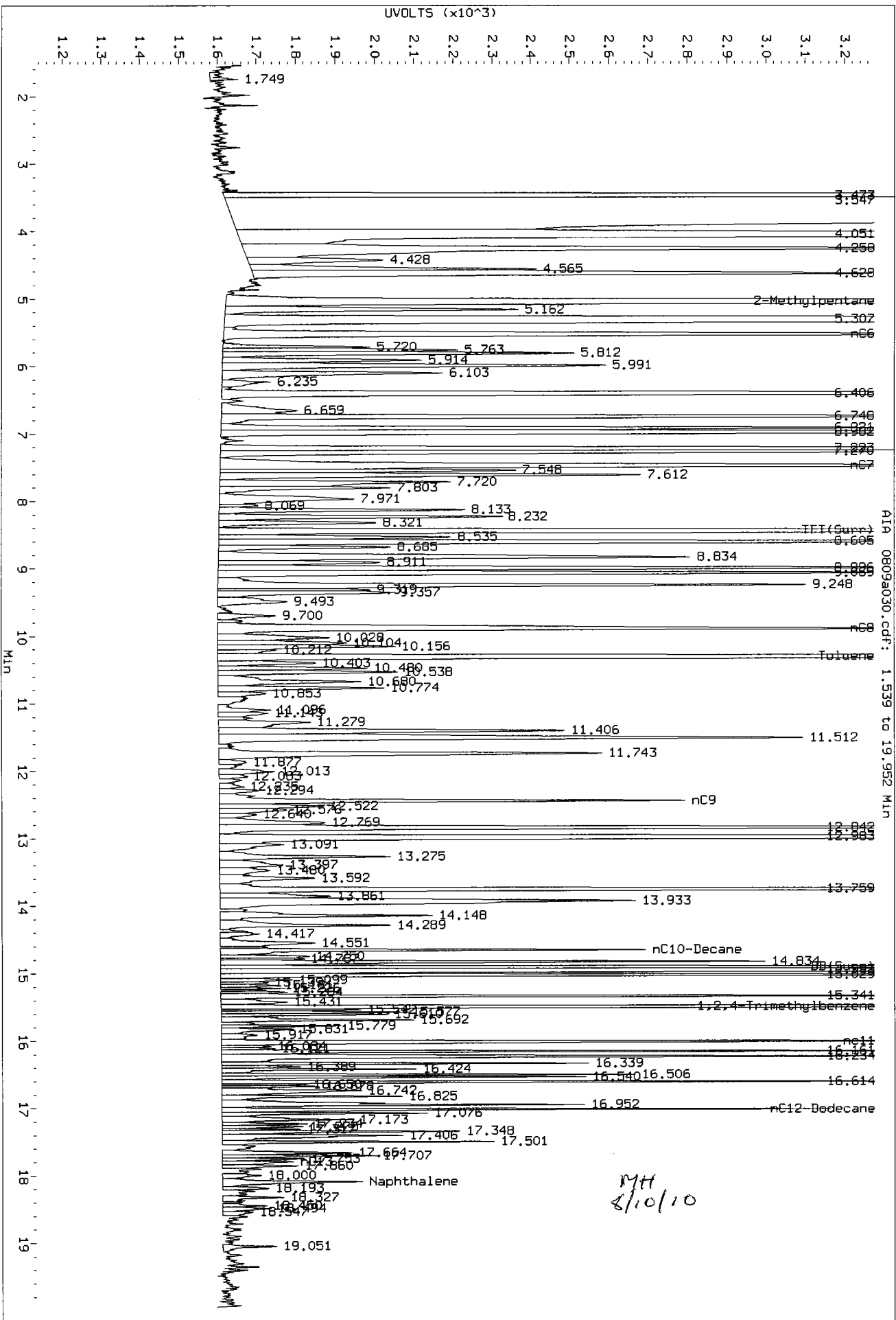
Column phase: RTX 502-2 PID

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



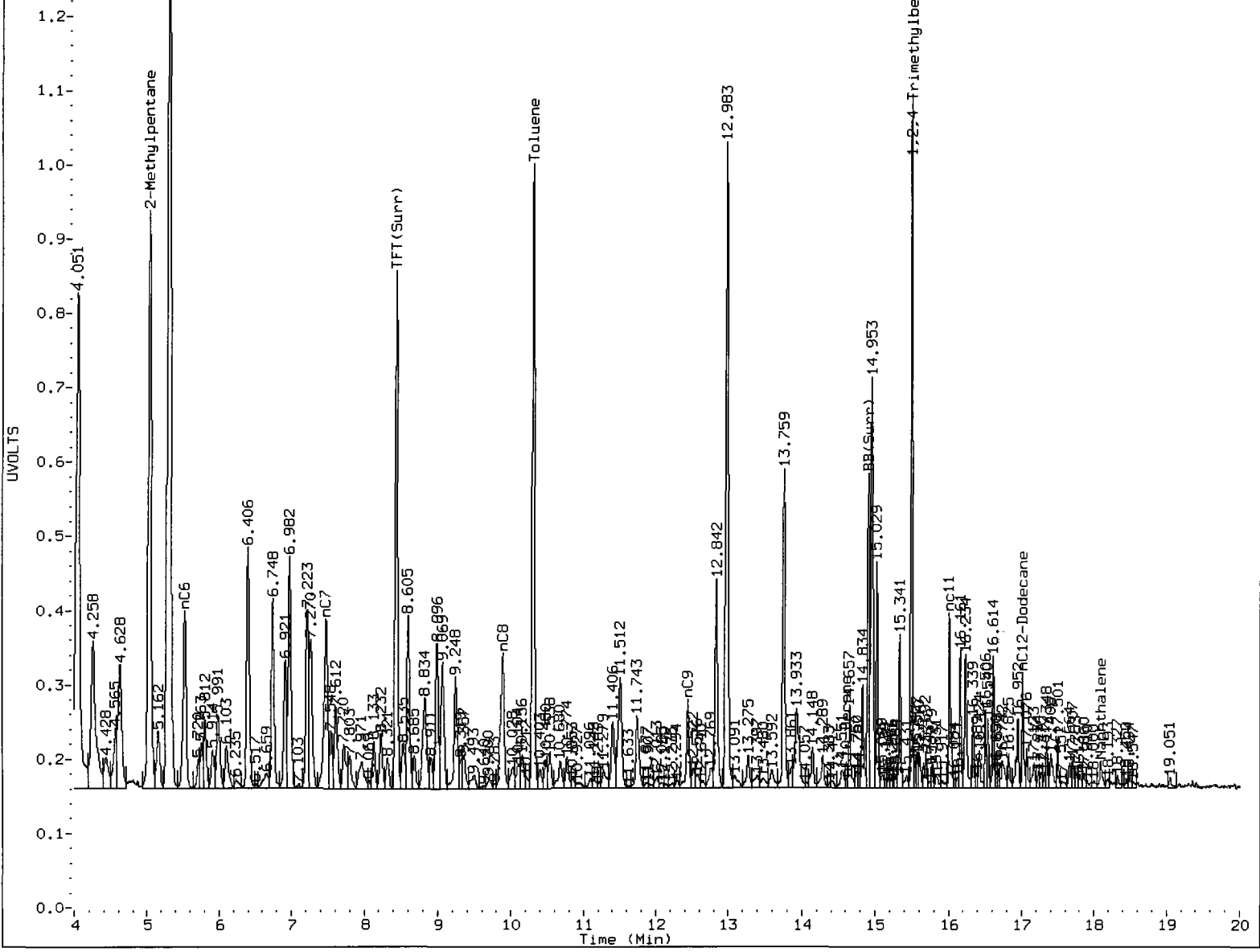
/chem3/pid3.i/20100809-1.b/0809a030.d/0809a030.cdf

Data File: /chem3/pid3.1/20100809-2.b/0809a030.d/0809a030.cdf
 Injection Date: 09-AUG-2010 19:07
 Instrument: pid3.i
 Client Sample ID: PSB10-8-5-10-07 MS



AIA 0809a030.cdf: 1.539 to 19.952 Min

FID RG78JMS



MANUAL INTEGRATION

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

Analyst: MH Date: 8/10/10

M.
8/10/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100809-2.b/0809a031.d ARI ID: RG78JMSD
Data file 2: /chem3/pid3.i/20100809-1.b/0809a031.d Client ID: PSB10-8.5-10-07 MSD
Method: /chem3/pid3.i/20100809-1.b/PIDB.m Injection Date: 09-AUG-2010 19:31
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.442	0.032	7055	84064	98.0	TFT (Surr)
14.912	0.023	4408	37587	102.4	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	830382	1.003 M
8015B 2MP-TMB (4.93 to 15.58)	1664107	1611246	0.968 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	1085116	0.959 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	878586	0.996 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.440	0.032	20120	91.5	TFT (Surr)
14.910	0.023	44217	97.0	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.718	0.029	2782	2.10	Benzene
10.307	0.035	37896	28.71	Toluene
12.842	0.037	10975	8.83	Ethylbenzene
12.982	0.039	42500	31.56	M/P-Xylene
13.757	0.032	17678	13.76	O-Xylene
5.311	0.020	33676	94.65	MTBE

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

Data File: /chem3/pid3.i/20100809-2.b/0809a031.d

Date: 09-AUG-2010 19:31

Client ID: PSB10-8.5-10-07 MSD

Sample Info: RG78JMSD

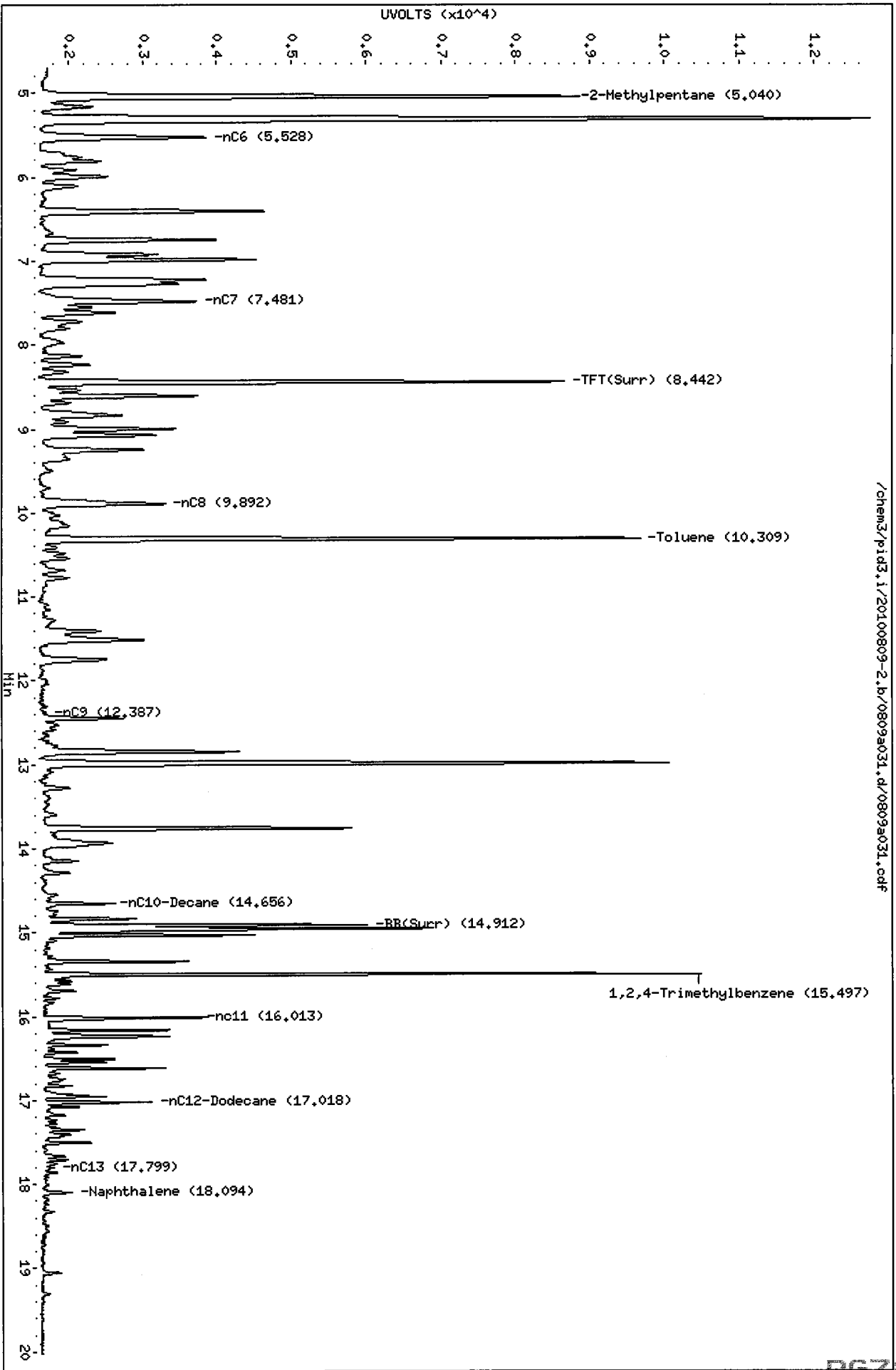
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

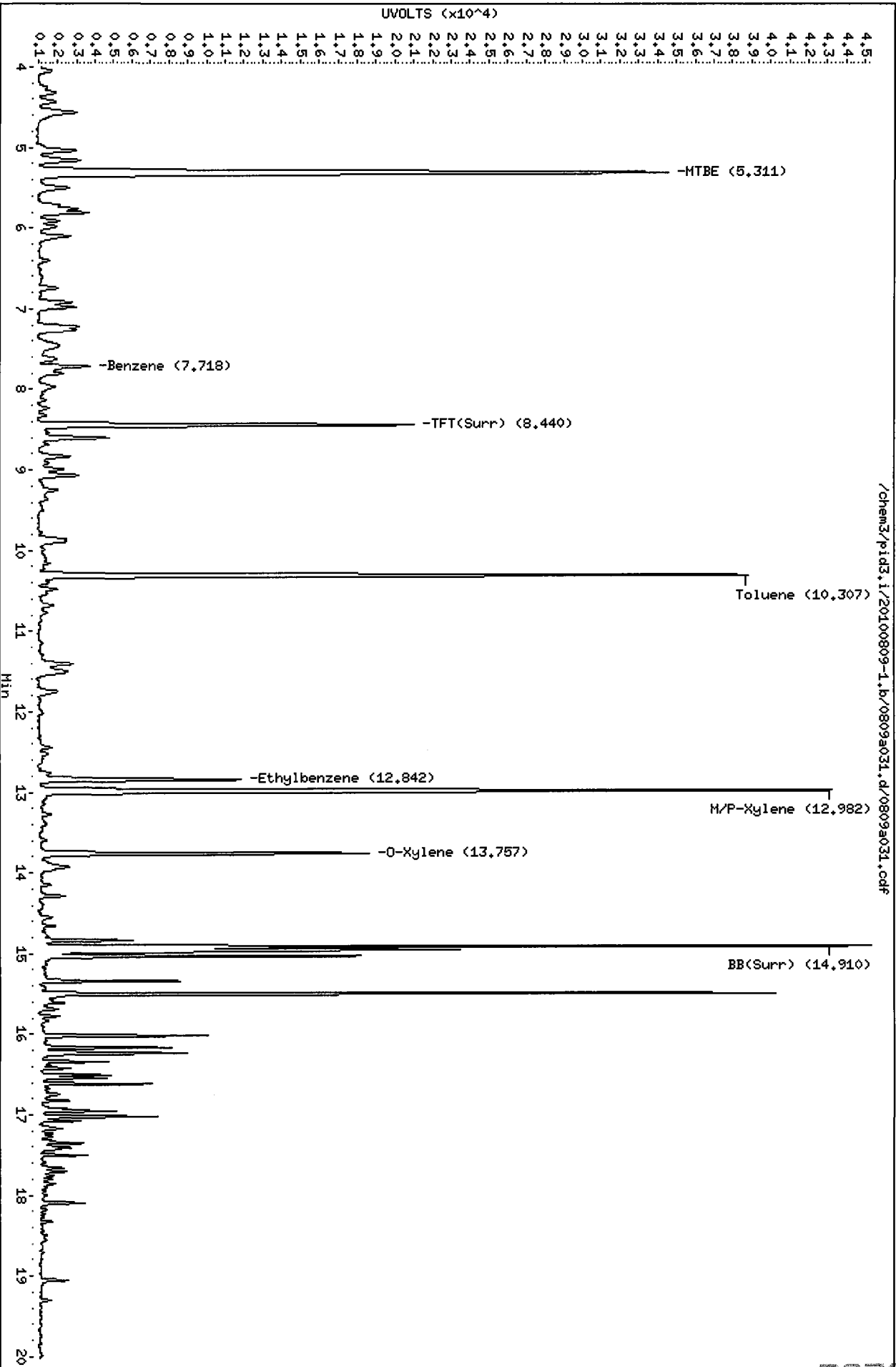
/chem3/pid3.i/20100809-2.b/0809a031.d/0809a031.cdf



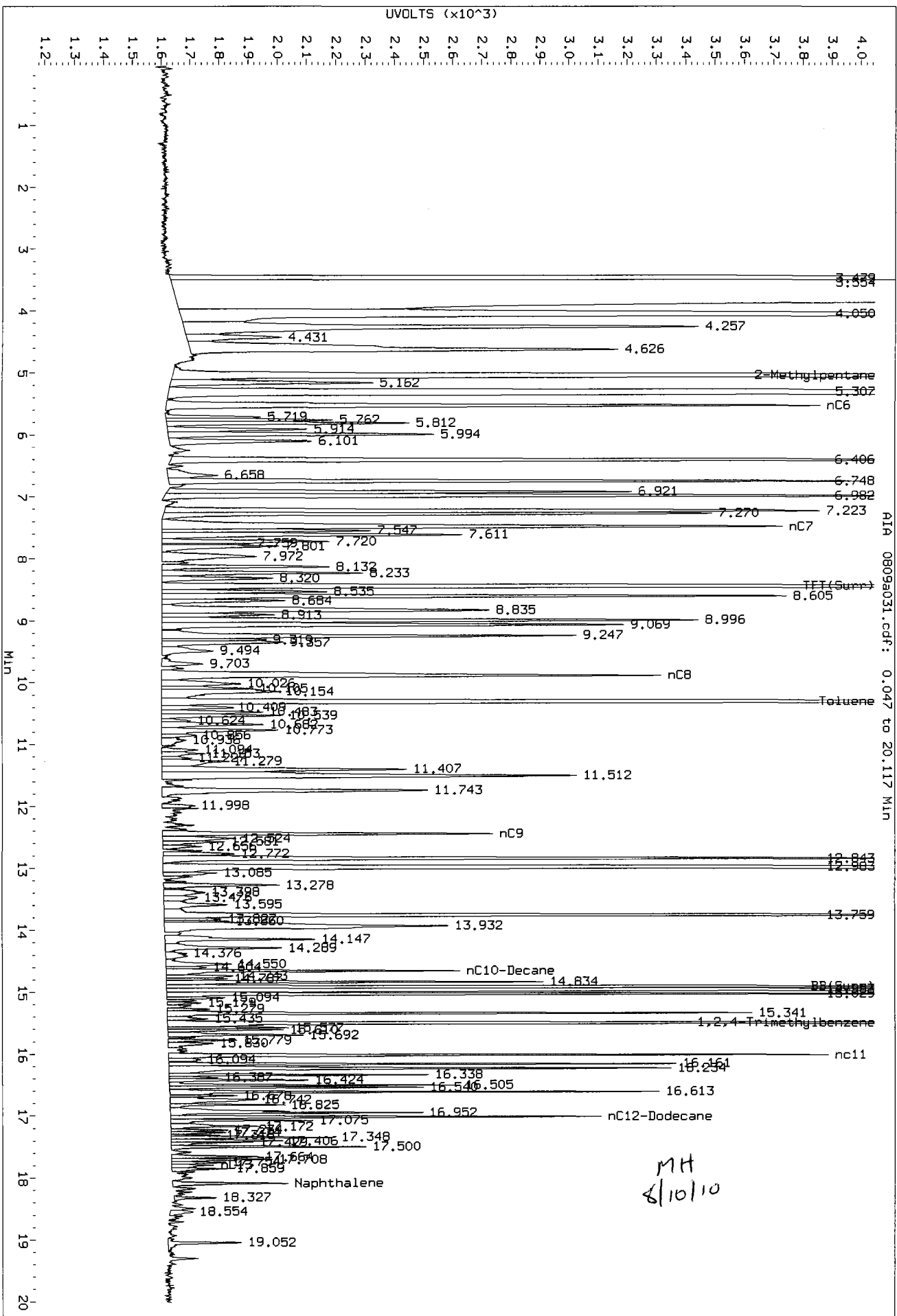
Data File: /chem3/pid3.i/20100809-1.b/0809a031.d
Date: 09-AUG-2010 19:31
Client ID: PSB10-8.5-10-07 MSD
Sample Info: RG78JMSD

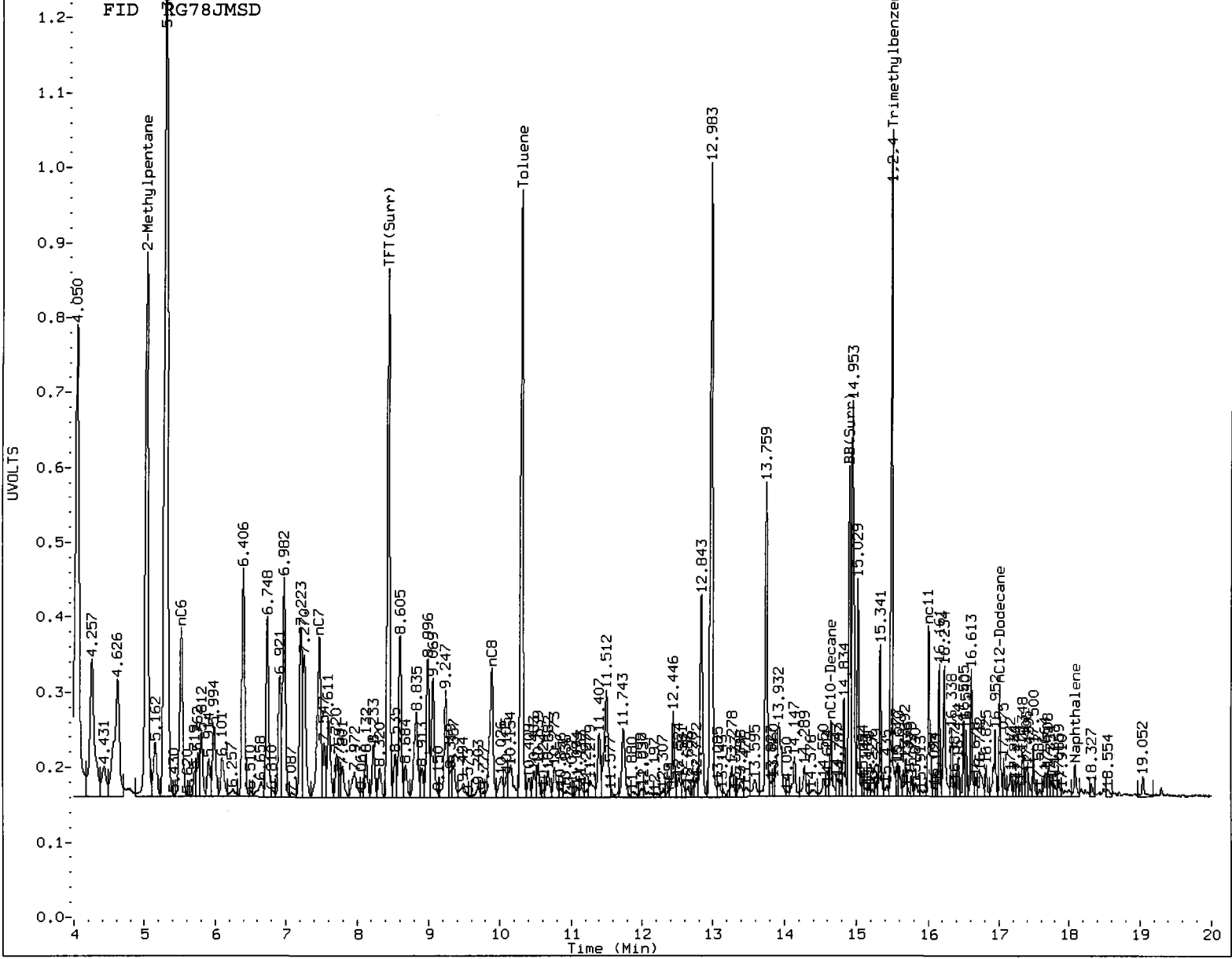
Column phase: RTX 502-2 PID

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



Data File: /chem3/pid3.1/20100809-2.b/0809a031.d/0809a031.cdf
 Injection Date: 09-AUG-2010 19:31
 Instrument: pid3.1
 Client Sample ID: PSB10-8.5-10-07 MSD





MANUAL INTEGRATION

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

Analyst: MH Date: 8/10/10

8/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100809-2.b/0809a032.d ARI ID: RG78K
Data file 2: /chem3/pid3.i/20100809-1.b/0809a032.d Client ID: PSB10-14-15-073010
Method: /chem3/pid3.i/20100809-1.b/PIDB.m Injection Date: 09-AUG-2010 19:56
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.445	0.035	6867	80666	95.4	TFT (Surr)
14.913	0.025	4371	35771	101.5	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	1	0.000
8015B 2MP-TMB (4.93 to 15.58)	1664107	1	0.000
AK101 nC6-nC10 (5.41 to 14.53)	1131784	0	0.000
NWTPHG Tol-Nap (10.17 to 18.18)	882029	2531	0.003

M Indicates manual integration within range

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

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.444	0.035	19372	88.1	TFT (Surr)
14.912	0.024	42840	94.0	BB (Surr)

SW8021 (PID)

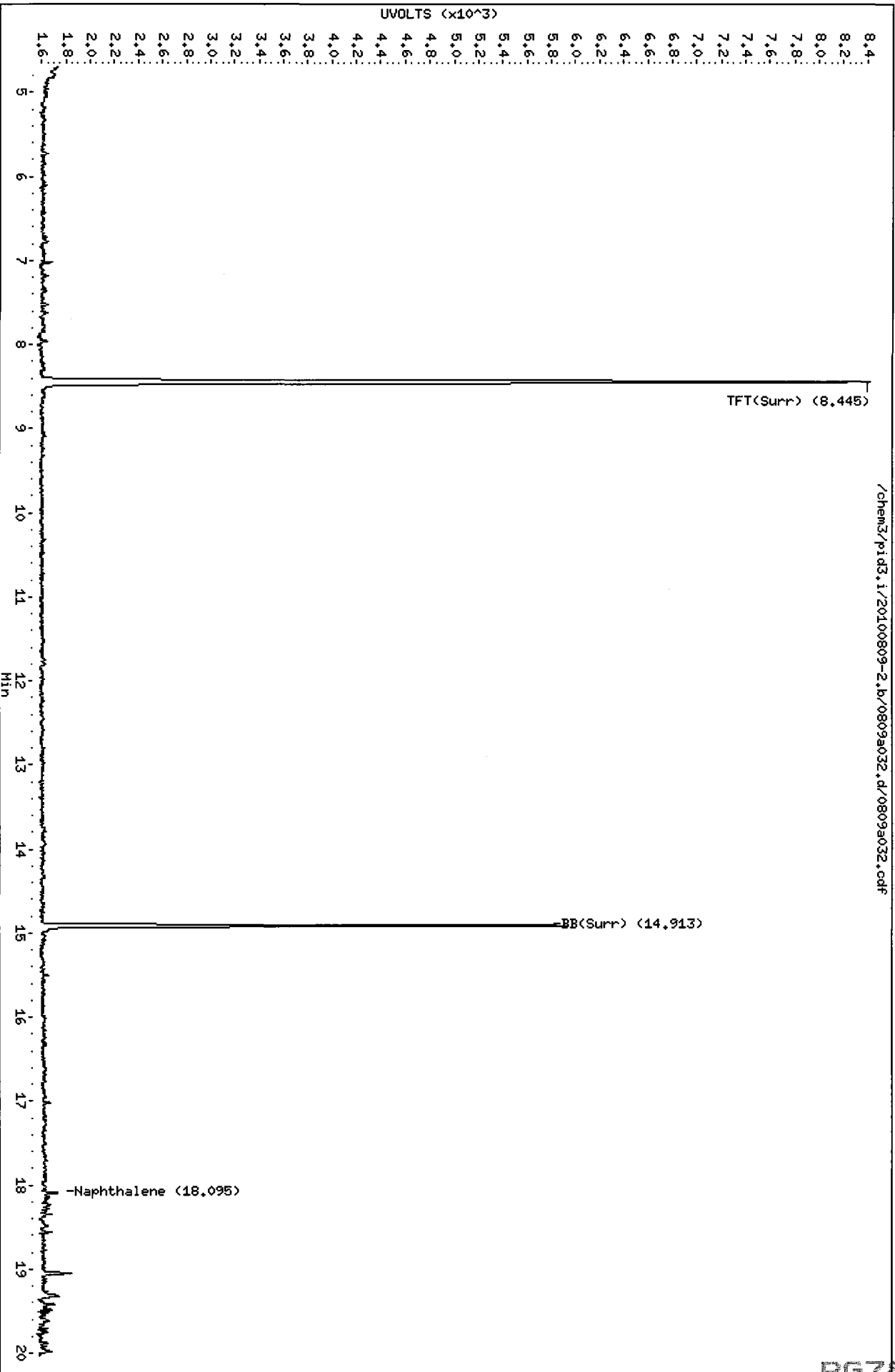
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

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

Data File: /chem3/pid3.i/20100809-2.b/0809a032.d
Date: 09-AUG-2010 19:56
Client ID: PSB10-14-15-073010
Sample Info: RG78K

Column phase: RTX 502-2 FID

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



Data File: /chem3/pid3.i/20100809-1.b/0809a032.d

Date: 09-AUG-2010 19:56

Client ID: PSB10-14-15-073010

Sample Info: RG78K

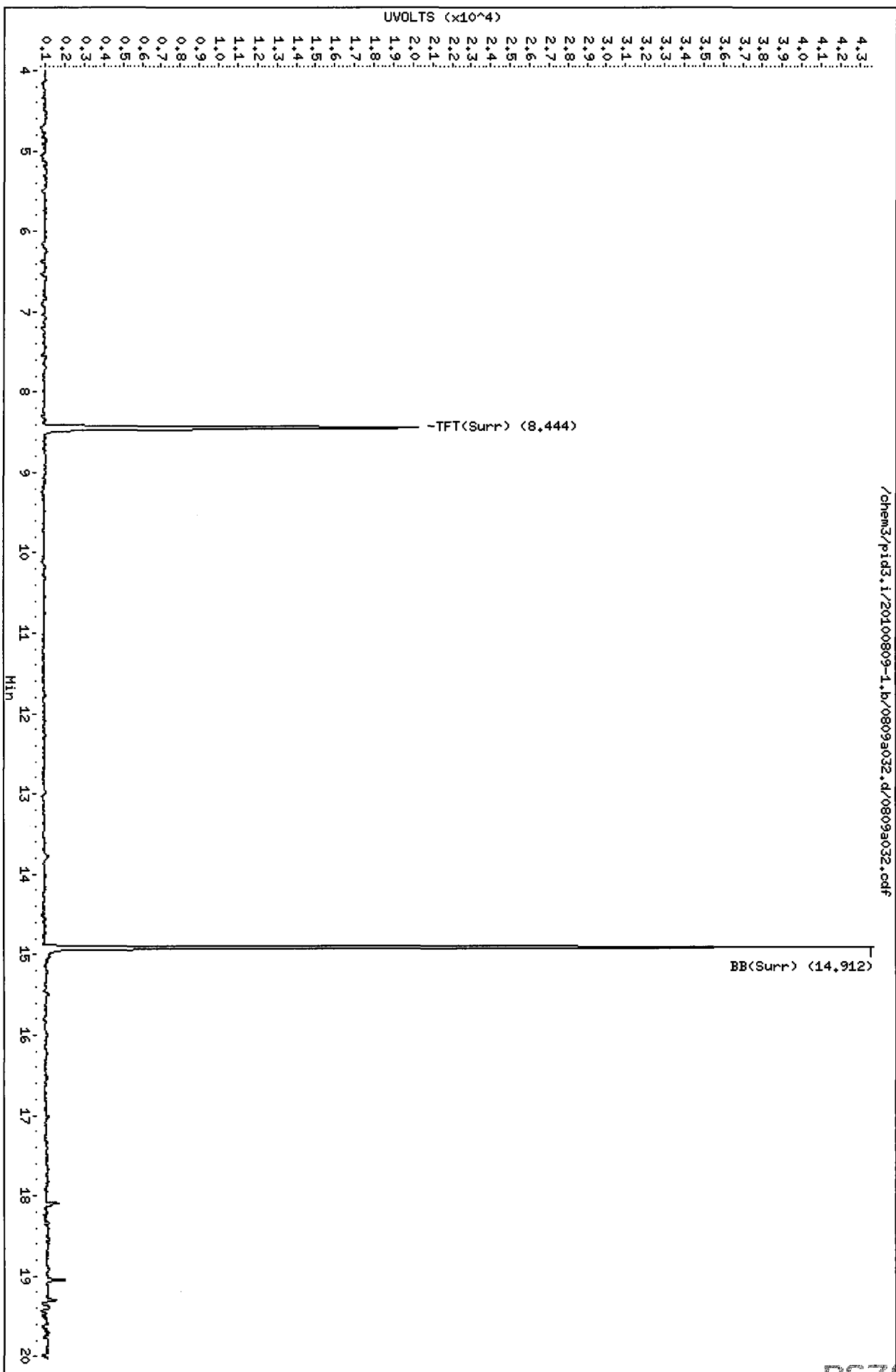
Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

Page 1



RG78 : 01545

Ms
8/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100809-2.b/0809a033.d ARI ID: RG78L
Data file 2: /chem3/pid3.i/20100809-1.b/0809a033.d Client ID: PSB10-20-25-073010
Method: /chem3/pid3.i/20100809-1.b/PIDB.m Injection Date: 09-AUG-2010 20:20
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

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FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	-----	-----
8.443	0.034	7027	82831	97.6	TFT(Surr)
14.912	0.024	4351	35099	101.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	-----	-----	-----
WAGas Tol-C12 (10.17 to 17.11)	827807	4849	0.006
8015B 2MP-TMB (4.93 to 15.58)	1664107	1133	0.001
AK101 nC6-nC10 (5.41 to 14.53)	1131784	1132	0.001
NWTPHG Tol-Nap (10.17 to 18.18)	882029	5896	0.007

M Indicates manual integration within range

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

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PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	-----	-----
8.442	0.034	19720	89.7	TFT(Surr)
14.911	0.024	43490	95.4	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/20100809-2.b/0809a033.d

Date: 09-AUG-2010 20:20

Client ID: PSB10-20-25-073010

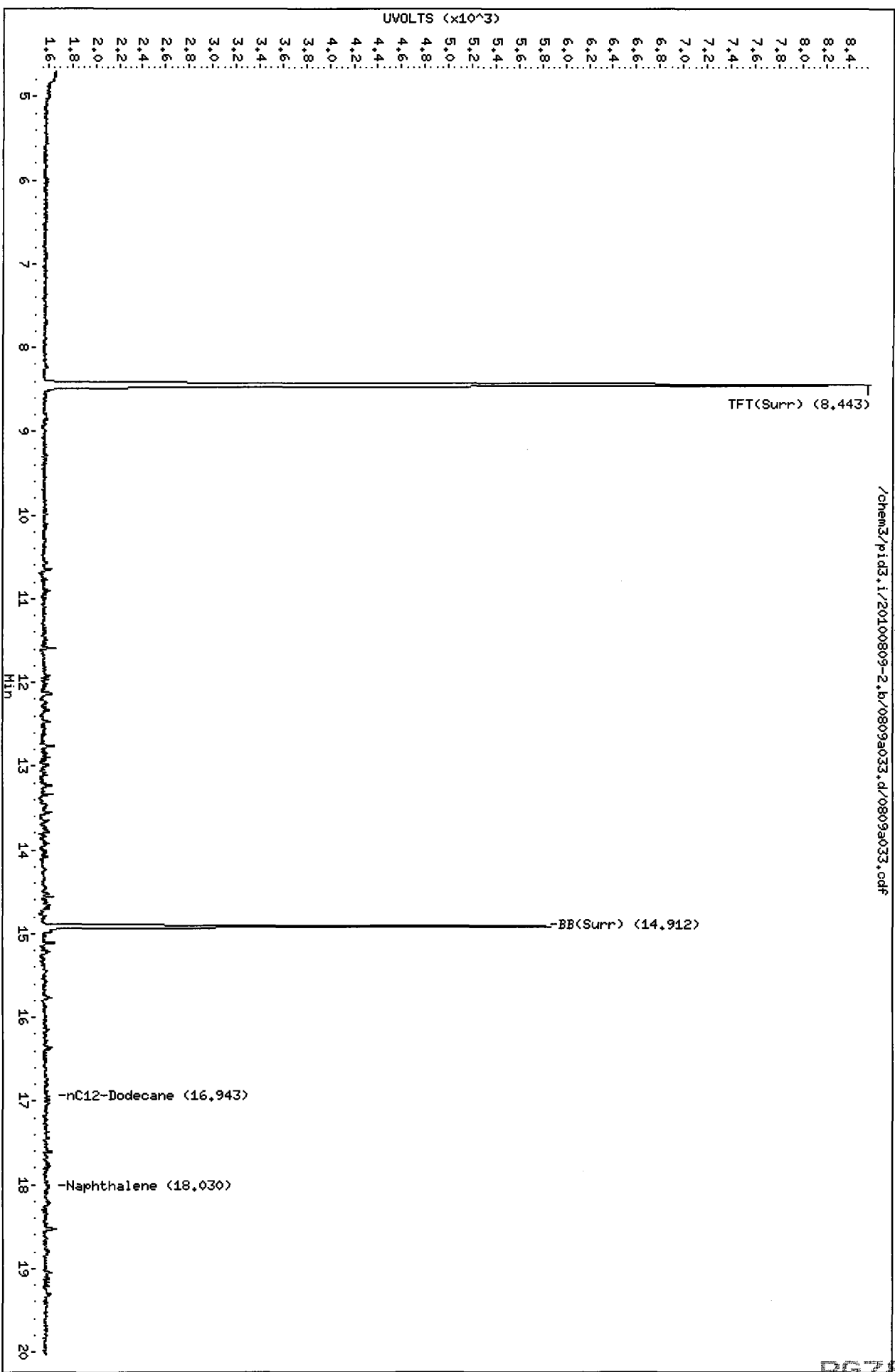
Sample Info: RG78L

Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18



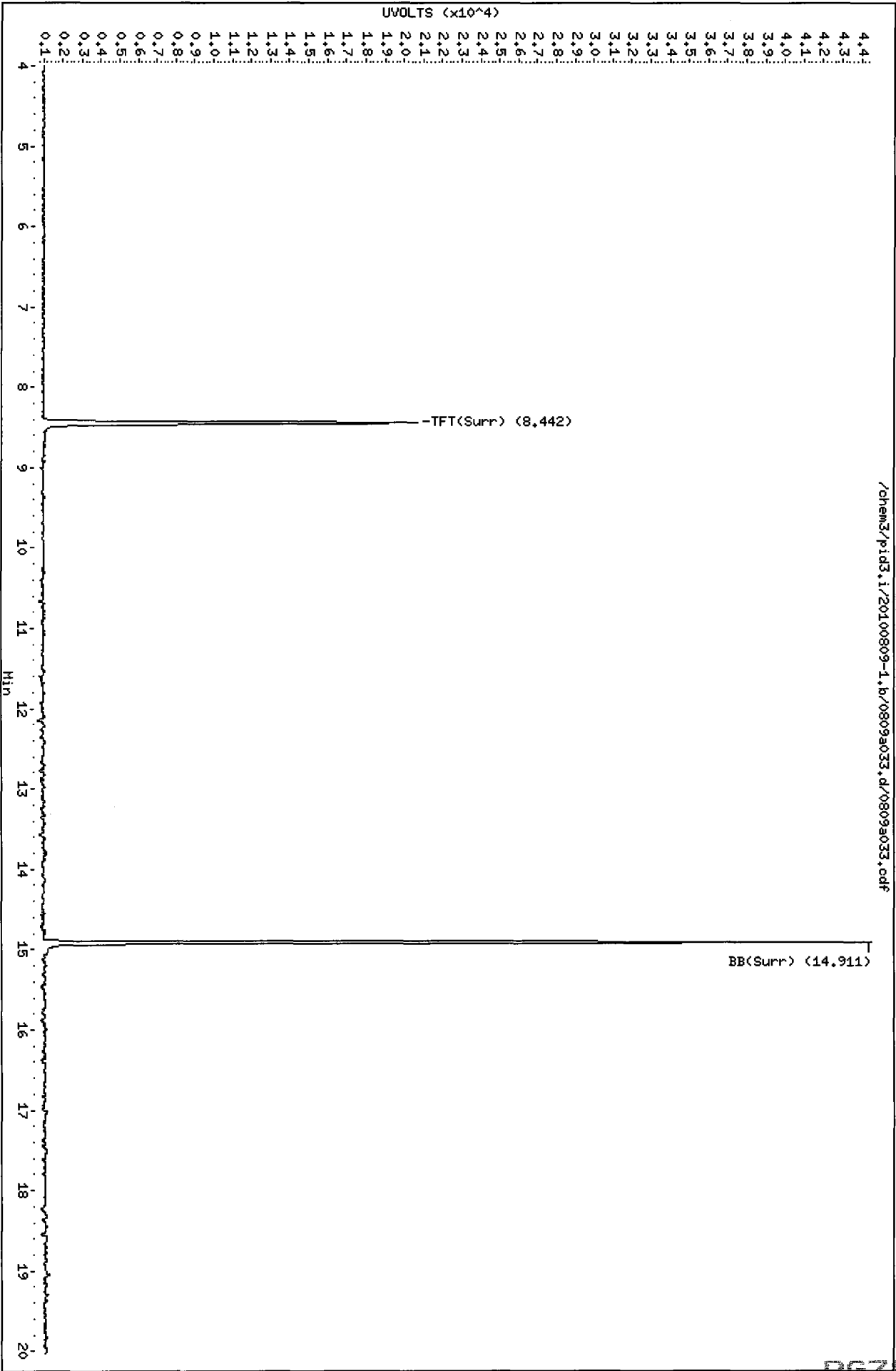
/chem3/pid3.i/20100809-2.b/0809a033.d/0809a033.cdf

Data File: /chem3/pid3.i/20100809-1.b/0809a033.d
Date : 09-AUG-2010 20:20
Client ID: PSB10-20-25-073010
Sample Info: RG78L

Column phase: RTX 502-2 PID

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

/chem3/pid3.i/20100809-1.b/0809a033.d/0809a033.cdf



Mr. 8/10/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100809-2.b/0809a035.d ARI ID: GCAL 4
Data file 2: /chem3/pid3.i/20100809-1.b/0809a035.d Client ID:
Method: /chem3/pid3.i/20100809-1.b/PIDB.m Injection Date: 09-AUG-2010 21:09
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.444	0.034	6973	83511	96.9	TFT(Surr)
14.913	0.025	4351	36034	101.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	1873948	2.264 M
8015B 2MP-TMB (4.93 to 15.58)	1664107	3704465	2.226 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	2469808	2.182 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	1979464	2.244 M

M Indicates manual integration within range

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

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.442	0.034	19786	90.0	TFT(Surr)
14.911	0.024	42560	93.4	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.720	0.031	6840	5.17	Benzene
10.310	0.037	91636	69.43	Toluene
12.844	0.038	26408	21.25	Ethylbenzene
12.984	0.042	101996	75.74	M/P-Xylene
13.759	0.034	42087	32.76	O-Xylene
5.314	0.022	79236	222.70	MTBE

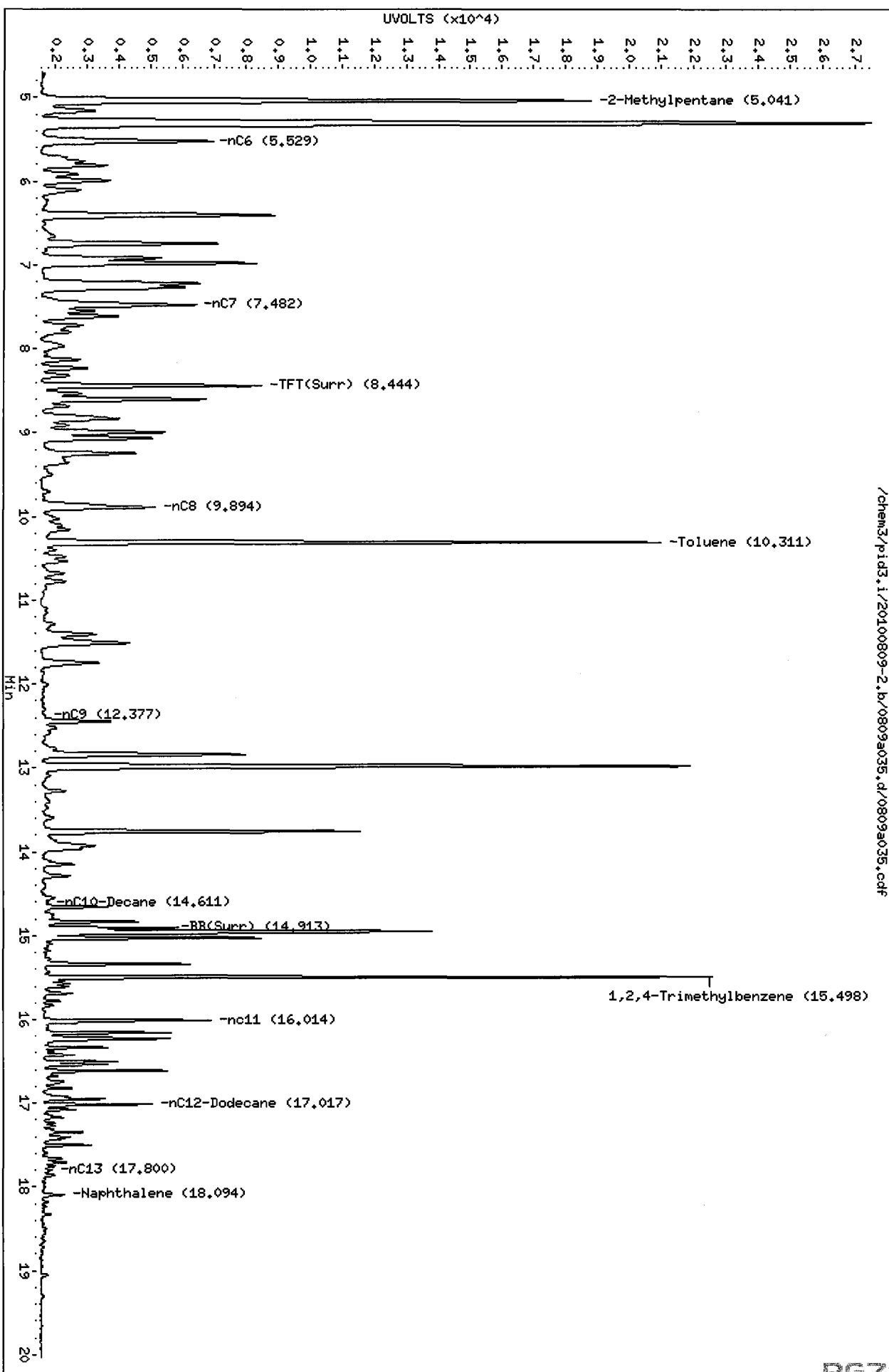
A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100809-2.b/0809a035.d
Date: 09-AUG-2010 21:09
Client ID: LORA LAKE
Sample Info: GCAL 4

Column phase: RTX 502-2 FID

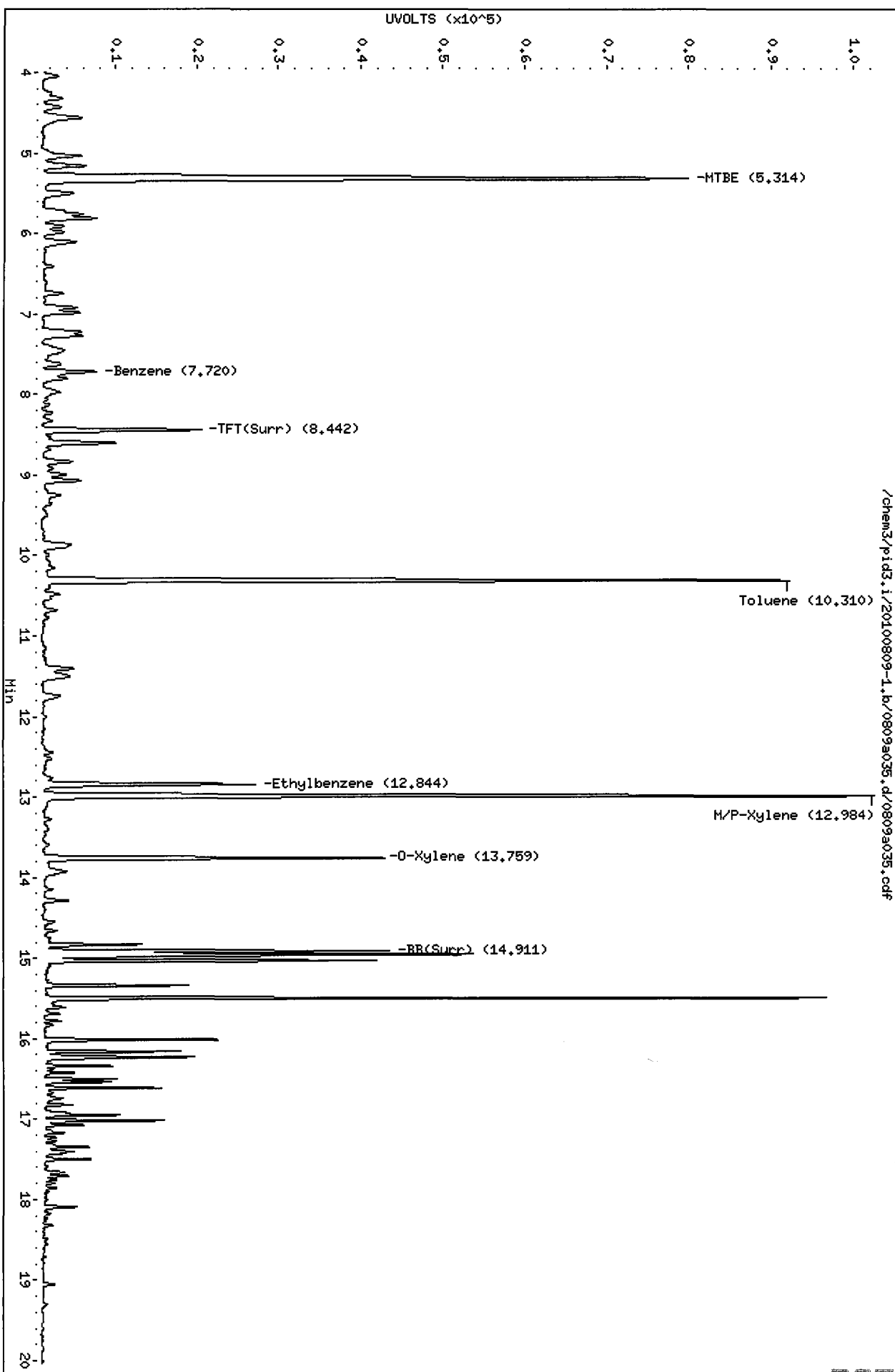
Instrument: pid3.i
Operator: MH
Column diameter: 0.18



Data File: /chem3/pid3.i/20100809-1.b/0809a035.d
Date : 09-AUG-2010 21:09
Client ID:
Sample Info: GCAL 4

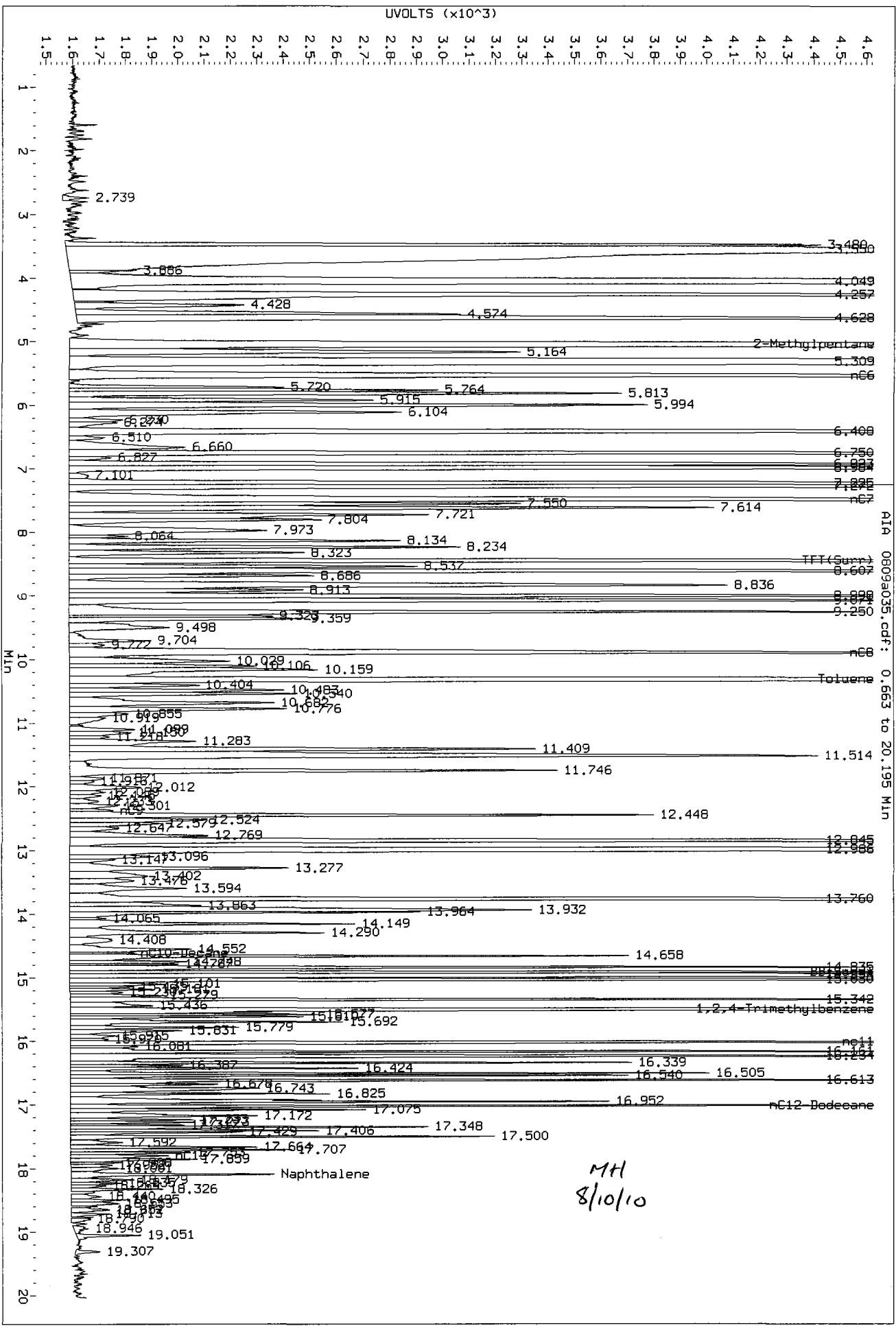
Column phase: RTX 502-2 PID

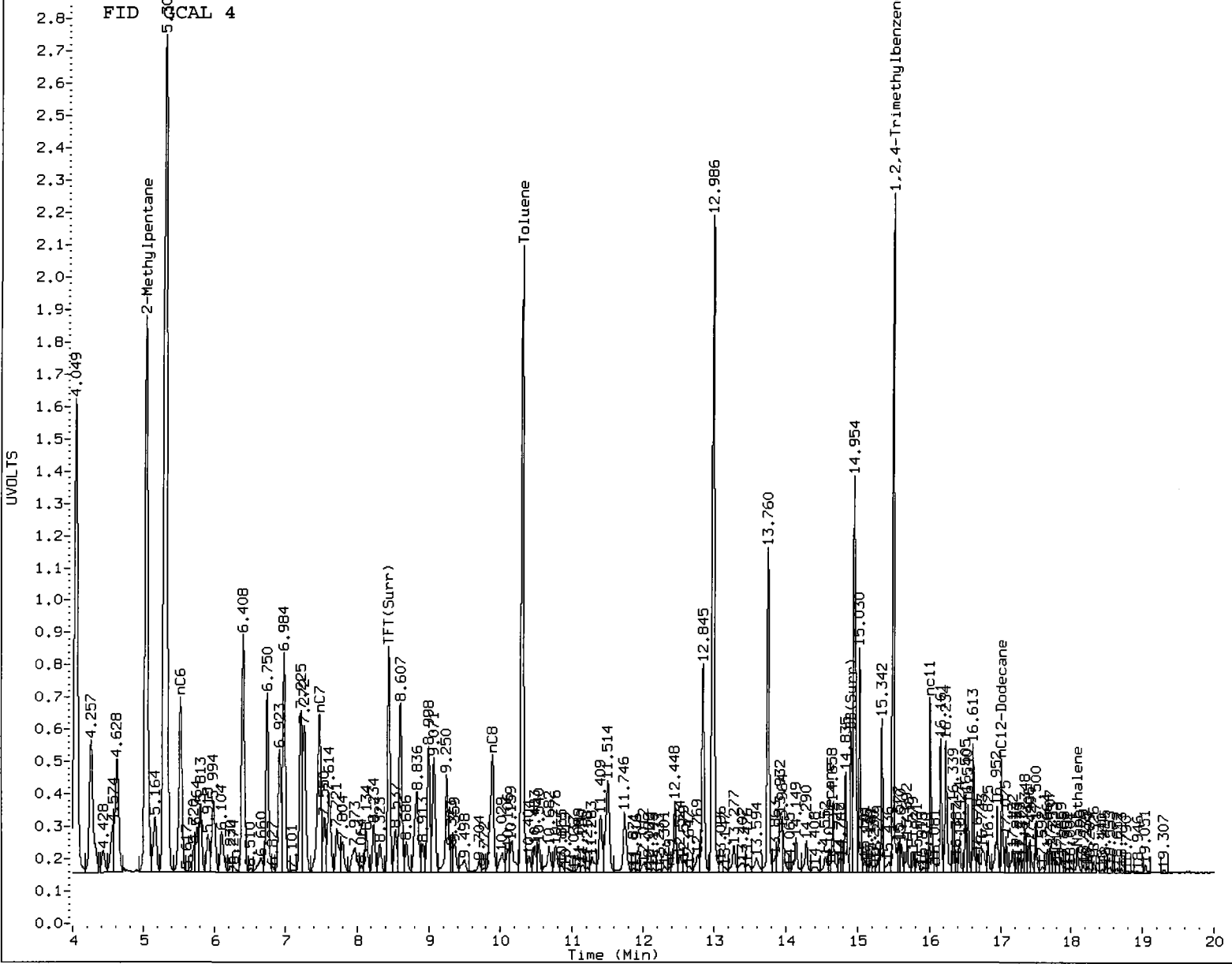
Instrument: pid3.i
Operator: HH
Column diameter: 0.18



/chem3/pid3.i/20100809-1.b/0809a035.d/0809a035.pdf

Data File: /chem3/pid3.1/20100809-2.b/0809a035.d/0809a035.cdf
 Injection Date: 09-AUG-2010 21:09
 Instrument: pid3.1
 Client Sample ID:





MANUAL INTEGRATION

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

Analyst: MH Date: 8/10/10

Analytical Resources Inc.: Organics Instrument Log

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

Date: 8/12/10 Analysis: NWTPHG/BETX Analyst: MH

GC Program: BETX Column No: 832213 Column Type: RTX502-Z

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

Calibration File: _____ Curve Date: 6/29/10 BETX
7/28/10 605

IS/SS	Ical/Ccal	LCS/ICV
<u>VW648-3</u>	<u>VW635-1</u>	<u>VW647-2</u>
	<u>VW644-3</u>	
	<u>VW647-2</u>	

Time	Filename	LabID	ClientID	Vial#	pH	DF			
1	0648	0812a001.d	RINSE			1			
2	0712	0812a002.d	RT+BCAL 1			1			
3	0737	0812a003.d	GCAL 1			1			
4	0801	0812a004.d	LCS0812			1			
5	0826	0812a005.d	LCS0812			1			
6	0850	0812a006.d	MB0812			1			
7	0935	0812a007.d	RI17G	Trip Blank		1			
8	1011	0812a008.d	RI11A	C.T.I. Type-17	0.00				
9	1036	0812a009.d	RH84B	IT-RRM-SSI-02-08101	0.00				
10	1100	0812a010.d	RH78B	MW-3		1			
11	1125	0812a011.d	RH78C	MW-2		1			
12	1150	0812a012.d	RH98A			1			
13	1214	0812a013.d	RINSE			1			
14	1239	0812a014.d	BCAL 2			1			
15	1304	0812a015.d	GCAL 2			1			
16	1328	0812a016.d	RH98C			1			
17	1353	0812a017.d	RI17A	MW-12-0810		1			
18	1417	0812a018.d	RI17B	MW-14-0810		1			
19	1442	0812a019.d	RI17C	MW-13-0810		1			
20	1507	0812a020.d	RI17D	MW-10-0810		1			
21	1531	0812a021.d	RI17E	MW-110-0810		1			
22	1556	0812a022.d	RI17F	MW-15-0810		1			
23	1621	0812a023.d	RI17FMS	MW-15-0810 MS		1			
24	1645	0812a024.d	RI17FMSD	MW-15-0810 MSD		1			
25	1710	0812a025.d	RINSE			1			
26	1735	0812a026.d	BCAL 3			1			
27	1759	0812a027.d	GCAL 3			1			
28	1824	0812a028.d	RG78C			1			
29	1848	0812a029.d	RG78E			1			
30	1912	0812a030.d	RG78G			1			
31	1937	0812a031.d	RG81A	PEO-010AK		1			
32	2002	0812a032.d	RG81E	PEO-114AK		1			
33	2026	0812a033.d	RG81H	SPE-008AK	0.00				
34	2051	0812a034.d	RG81J	SPE-025AK	0.00				
35	2116	0812a035.d	RINSE			1			
36	2140	0812a036.d	BCAL 4			1			
37	2205	0812a037.d	GCAL 4			1			

MH
8/13/10

Maintenance / Comments

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

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



VOA Analyst Notes / Corrective Action Log

ARI Project ID: RG78 Client ID: Floyd/Snyder

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

Parameter(s): NWTPH6/BETX

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

Purge Volume (mL) 5 Curve Date: 6/29/10 BETX
7/28/10 Gas Analysis Start Date: 8/12/10

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

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

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

Additional Details on Reverse: Yes / No

Analyst: [Signature] Date: 8/16/10

Reviewer: [Signature] Date: 8/16/10

8/16/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100812-2.b/0812a002.d ARI ID: RT+BCAL 1
Data file 2: /chem3/pid3.i/20100812-1.b/0812a002.d Client ID:
Method: /chem3/pid3.i/20100812-1.b/PIDB.m Injection Date: 12-AUG-2010 07:12
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.408	0.000	7239	85542	100.6	TFT (Surr)
14.887	0.000	4363	35382	101.3	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	1035785	1.251
8015B 2MP-TMB (4.92 to 15.58)	1664107	1263654	0.759
AK101 nC6-nC10 (5.41 to 14.53)	1131784	890198	0.787
NWTPHG Tol-Nap (10.17 to 18.18)	882029	1090242	1.236

M Indicates manual integration within range

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

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.407	0.000	21138	96.2	TFT (Surr)
14.885	0.000	44327	97.2	BB (Surr)

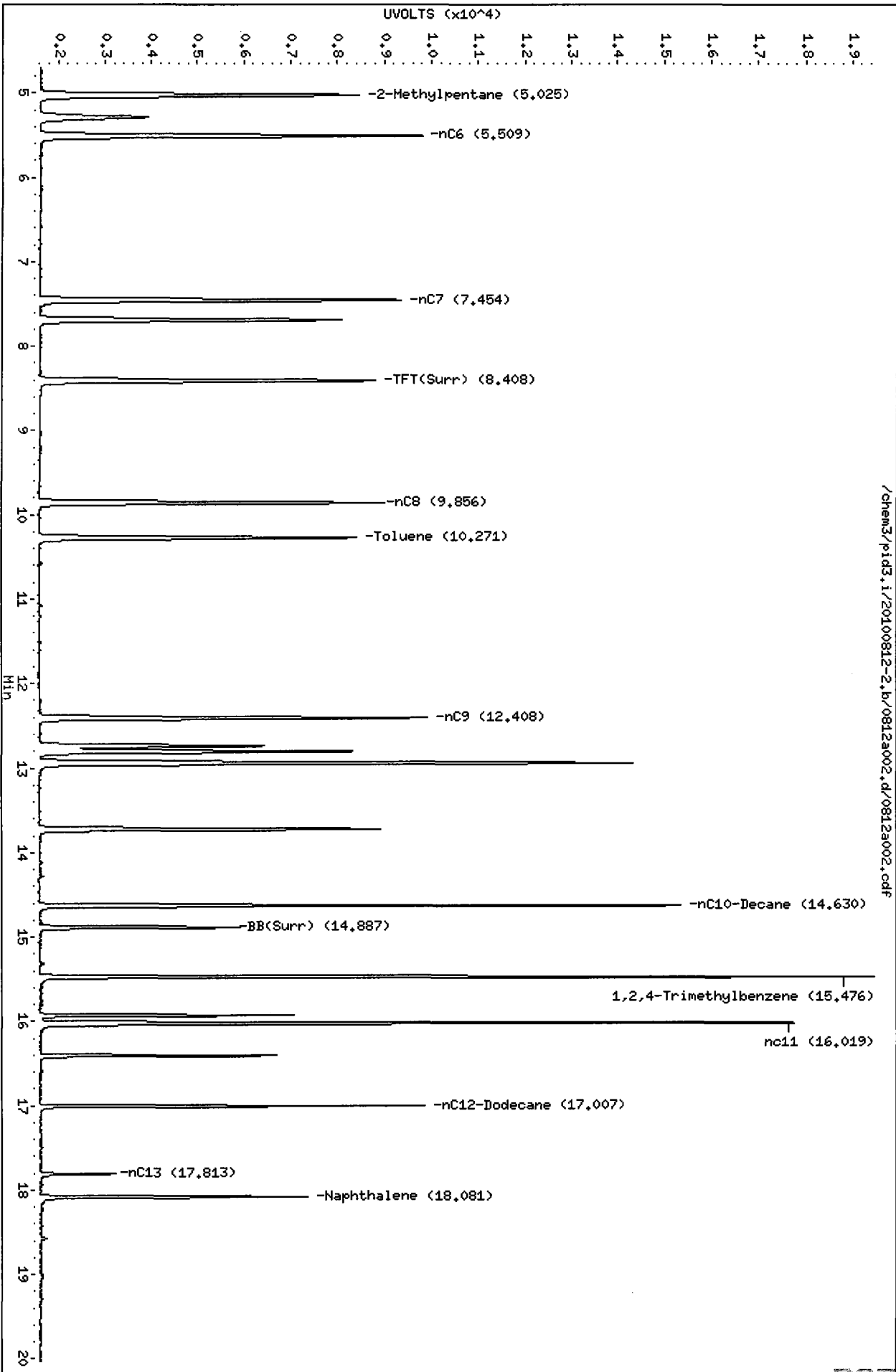
SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.687	0.000	33160	25.08	Benzene
10.270	0.000	32753	24.82	Toluene
12.803	0.000	29818	24.00	Ethylbenzene
12.941	0.000	65624	48.73	M/P-Xylene
13.723	0.000	31554	24.56	O-Xylene
5.289	0.000	9556	26.86	MTBE

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

Data File: /chem3/pid3.i/20100812-2.b/0812a002.d
Date: 12-AUG-2010 07:12
Client ID:
Sample Info: RT+BCAL 1
Column phase: RTX 502-2 FID

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

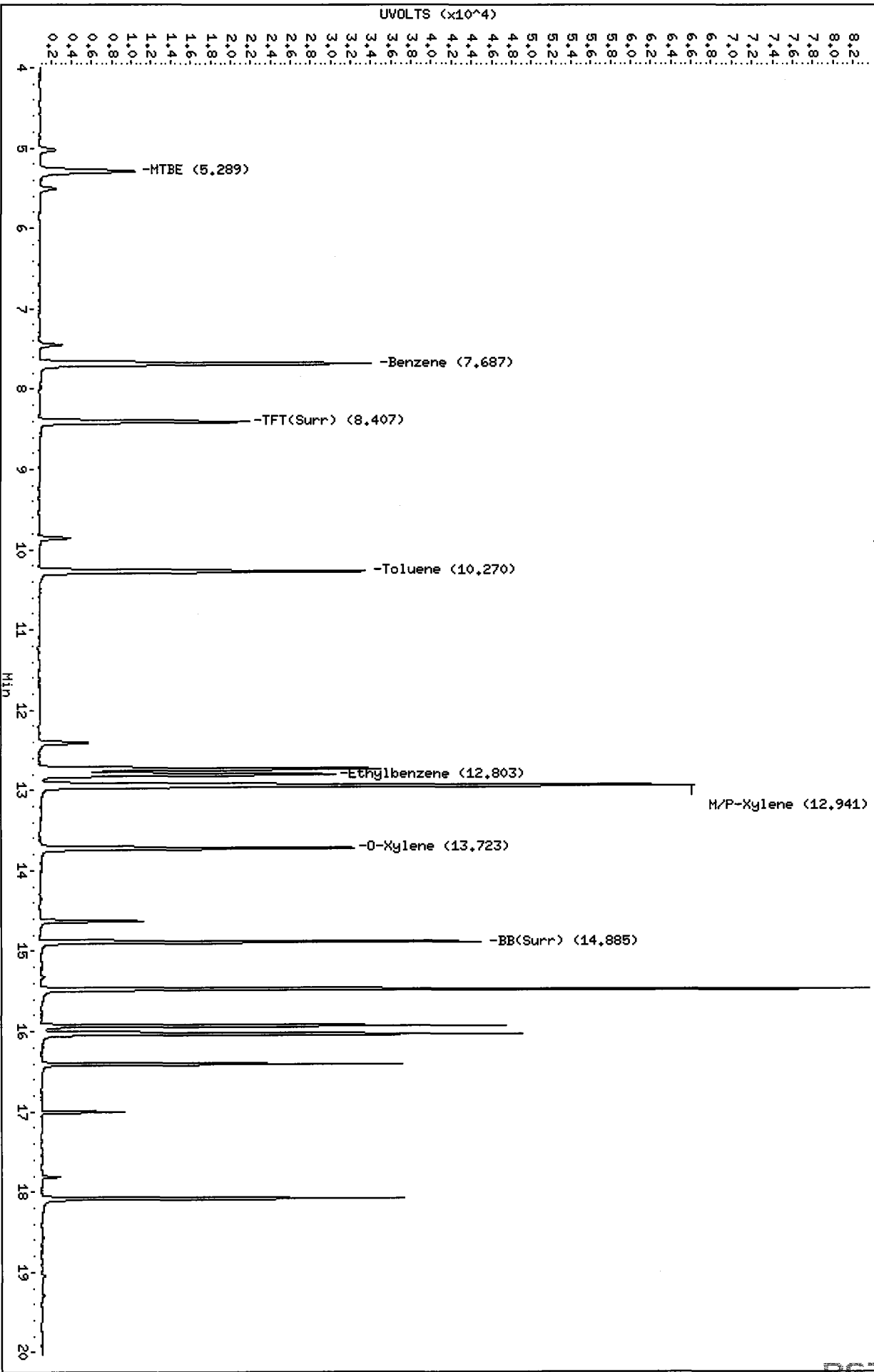


/chem3/pid3.i/20100812-2.b/0812a002.d/0812a002.cdf

Data File: /chem3/pid3.i/20100812-1.b/0812a002.d
Date: 12-AUG-2010 07:12
Client ID:
Sample Info: RT+BCAL 1
Column phase: RTX 502-2 PID

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

/chem3/pid3.i/20100812-1.b/0812a002.d/0812a002.cdf



Mr. 8/16/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100812-2.b/0812a003.d ARI ID: GCAL 1
Data file 2: /chem3/pid3.i/20100812-1.b/0812a003.d Client ID:
Method: /chem3/pid3.i/20100812-1.b/PIDB.m Injection Date: 12-AUG-2010 07:37
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	----	----	-----
8.425	0.018	7550	90091	104.9	TFT (Surr)
14.900	0.013	4580	36332	106.3	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (10.17 to 17.11)	827807	1948641	2.354
8015B 2MP-TMB (4.92 to 15.58)	1664107	3844742	2.310
AK101 nC6-nC10 (5.41 to 14.53)	1131784	2594181	2.292
NWTPHG Tol-Nap (10.17 to 18.18)	882029	2074055	2.351

M Indicates manual integration within range

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

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	----	-----
8.424	0.017	21673	98.6	TFT (Surr)
14.898	0.013	45798	100.5	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
7.704	0.016	6845	5.18	Benzene
10.290	0.020	91373	69.23	Toluene
12.823	0.020	26531	21.35	Ethylbenzene
12.964	0.024	102362	76.01	M/P-Xylene
13.741	0.019	42223	32.86	O-Xylene
5.301	0.012	81822	229.96	MTBE

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

Data File: /chem3/pid3.i/20100812-2.b/0812a003.d

Date: 12-AUG-2010 07:37

Client ID:

Sample Info: GCAL 1

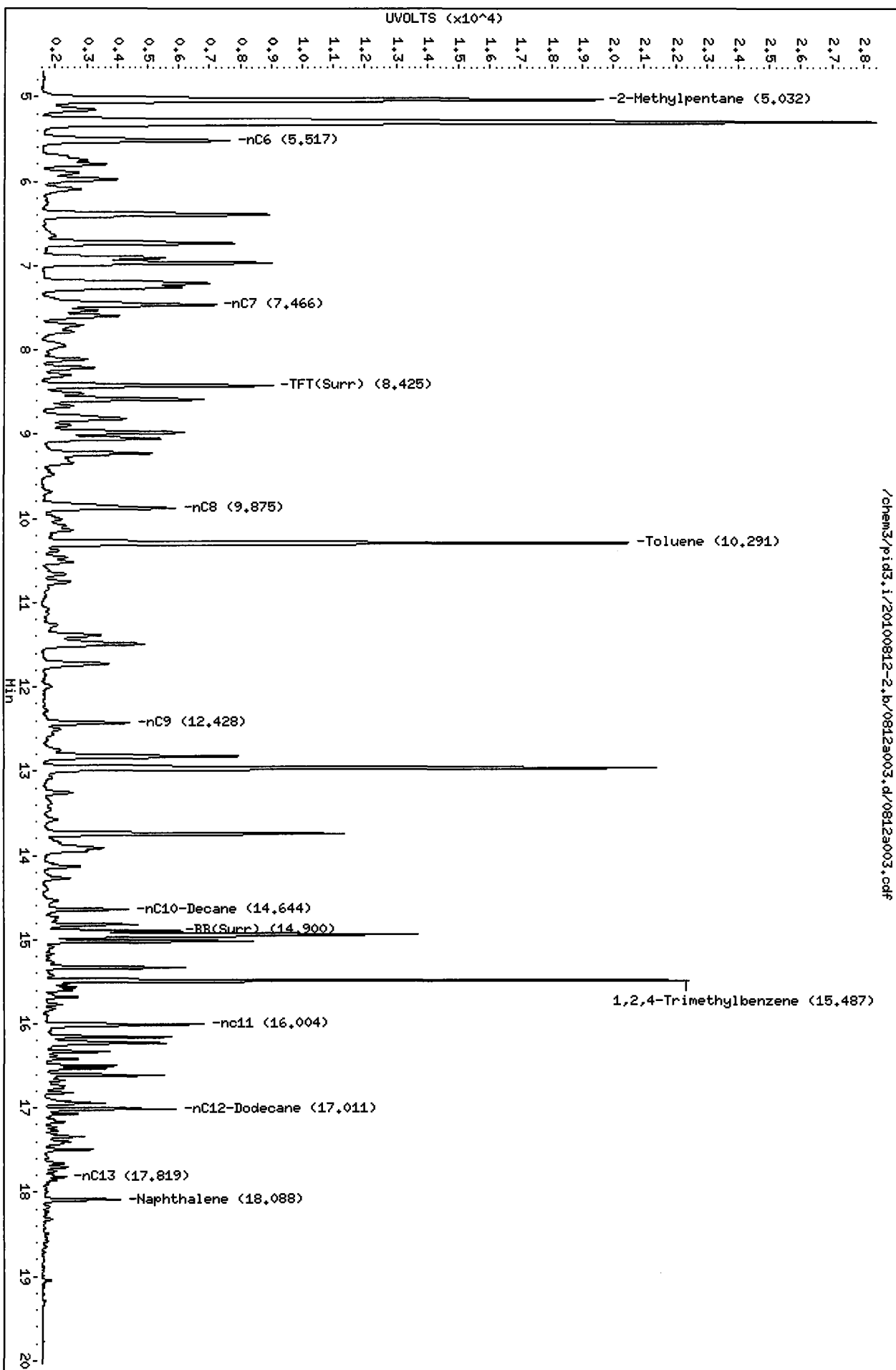
Column phaset: RTX 502-2 FID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

/chem3/pid3.i/20100812-2.b/0812a003.d/0812a003.cdf



Data File: /chem3/pid3.i/20100812-1.b/0812a003.d

Date: 12-AUG-2010 07:37

Client ID:

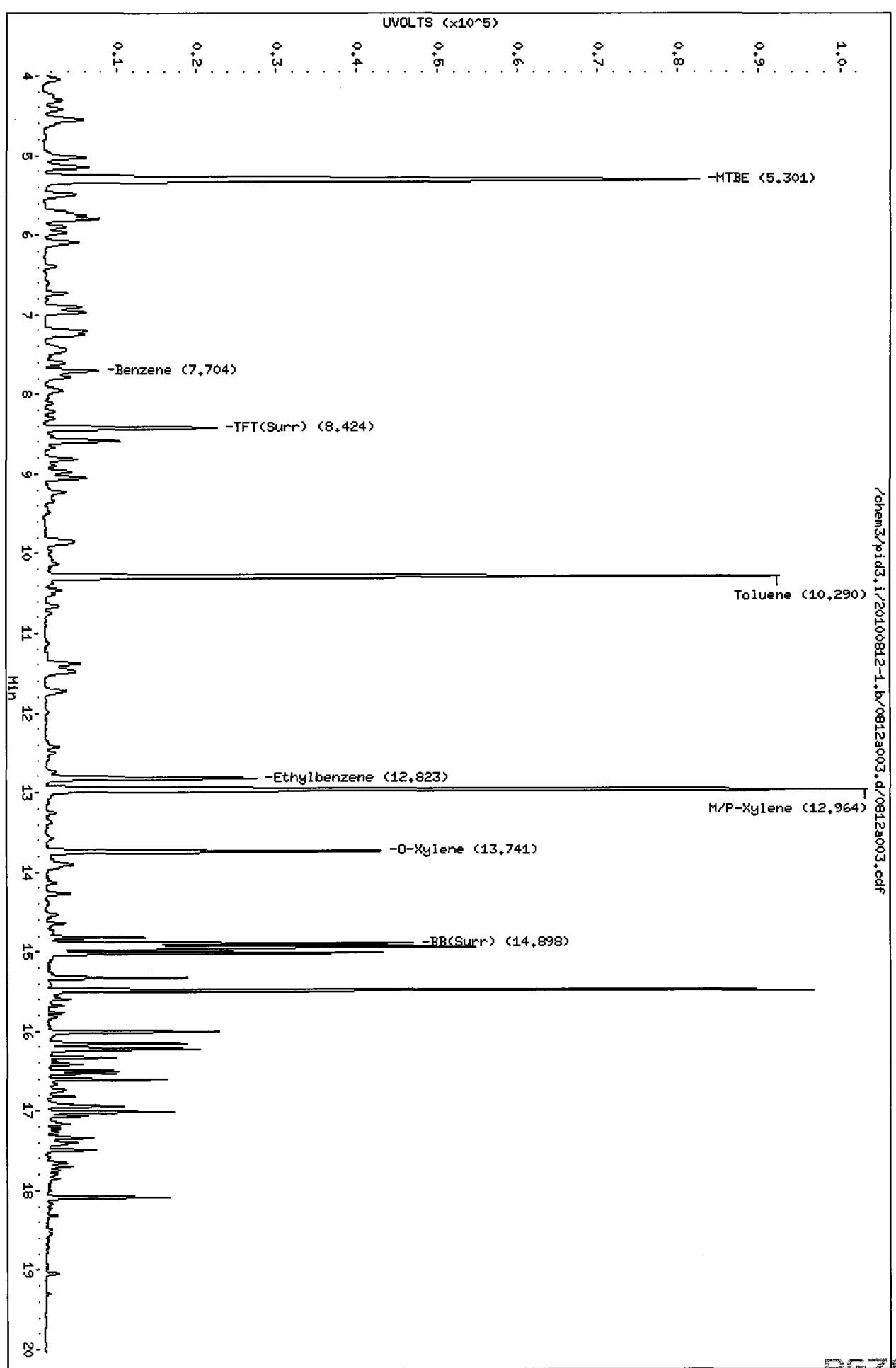
Sample Info: GCAL 1

Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18



8/16/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100812-2.b/0812a004.d ARI ID: LCS0812
Data file 2: /chem3/pid3.i/20100812-1.b/0812a004.d Client ID:
Method: /chem3/pid3.i/20100812-1.b/PIDB.m Injection Date: 12-AUG-2010 08:01
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.434	0.026	7261	85947	100.9	TFT (Surr)
14.906	0.020	4385	35853	101.8	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	788154	0.952 M
8015B 2MP-TMB (4.92 to 15.58)	1664107	1557490	0.936 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	1052386	0.930 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	844568	0.958 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.433	0.026	21345	97.1	TFT (Surr)
14.905	0.020	44638	97.9	BB (Surr)

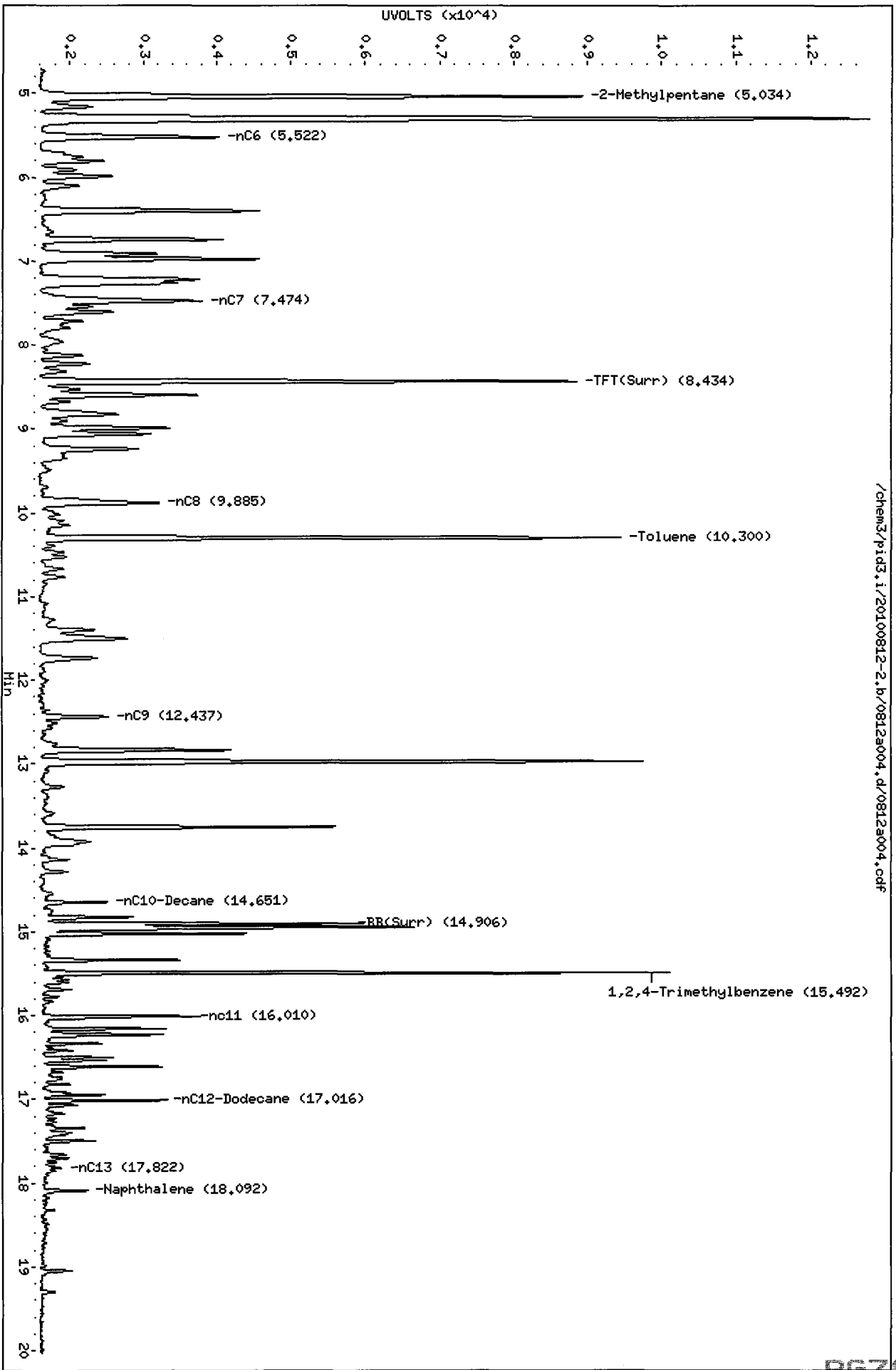
SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.710	0.023	2927	2.21	Benzene
10.299	0.029	37393	28.33	Toluene
12.834	0.031	10947	8.81	Ethylbenzene
12.973	0.033	41927	31.13	M/P-Xylene
13.750	0.027	17270	13.44	O-Xylene
5.303	0.014	34537	97.07	MTBE

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

Data File: /chem3/pid3.i/20100812-2.b/0812a004.d
Date: 12-AUG-2010 08:01
Client ID:
Sample Info: LCS0812
Column phaset: RTX 502-2 FID

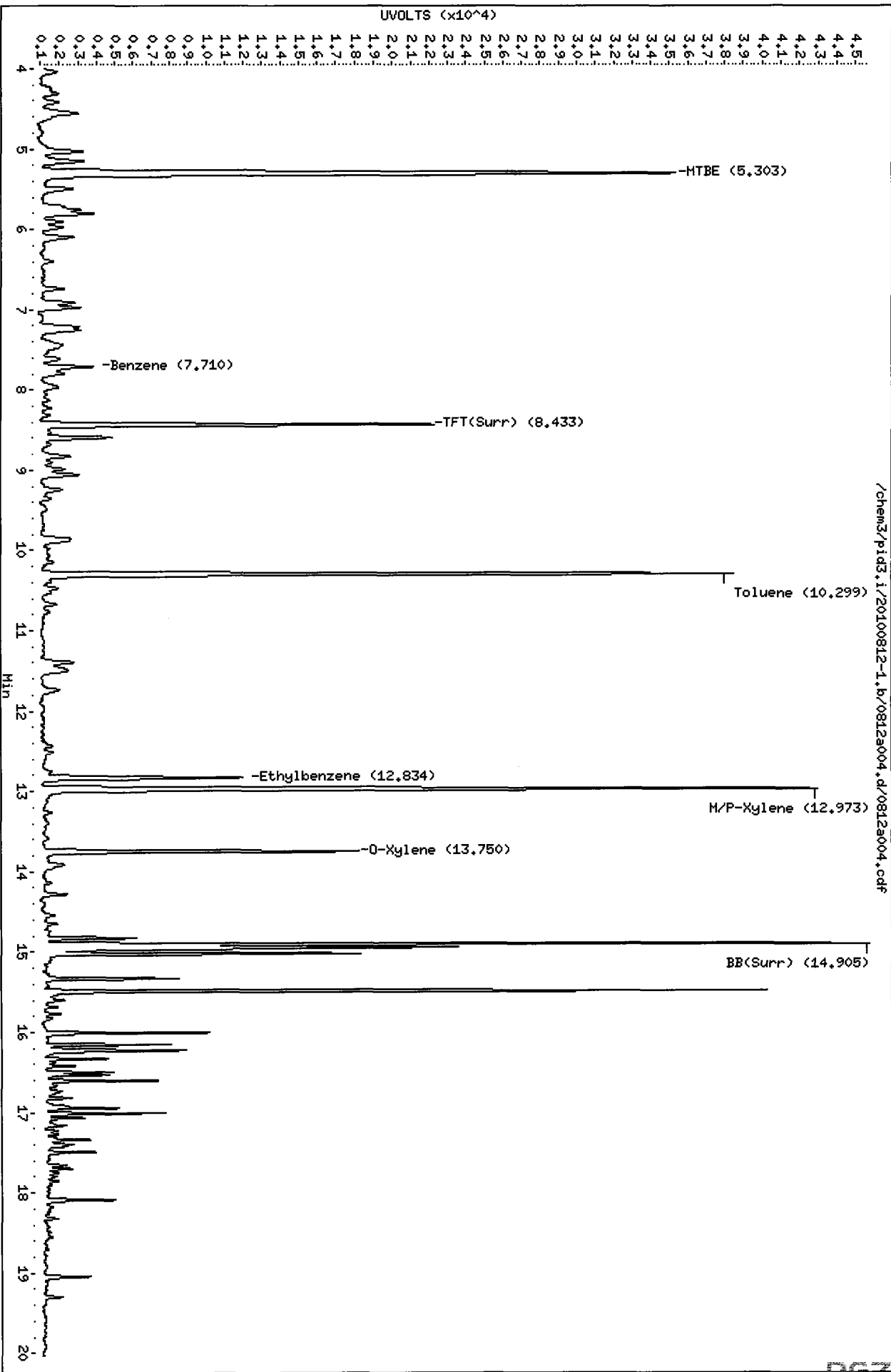
Instrument: pid3.i
Operator: MH
Column diameter: 0.18



/chem3/pid3.i/20100812-2.b/0812a004.d/0812a004.cdf

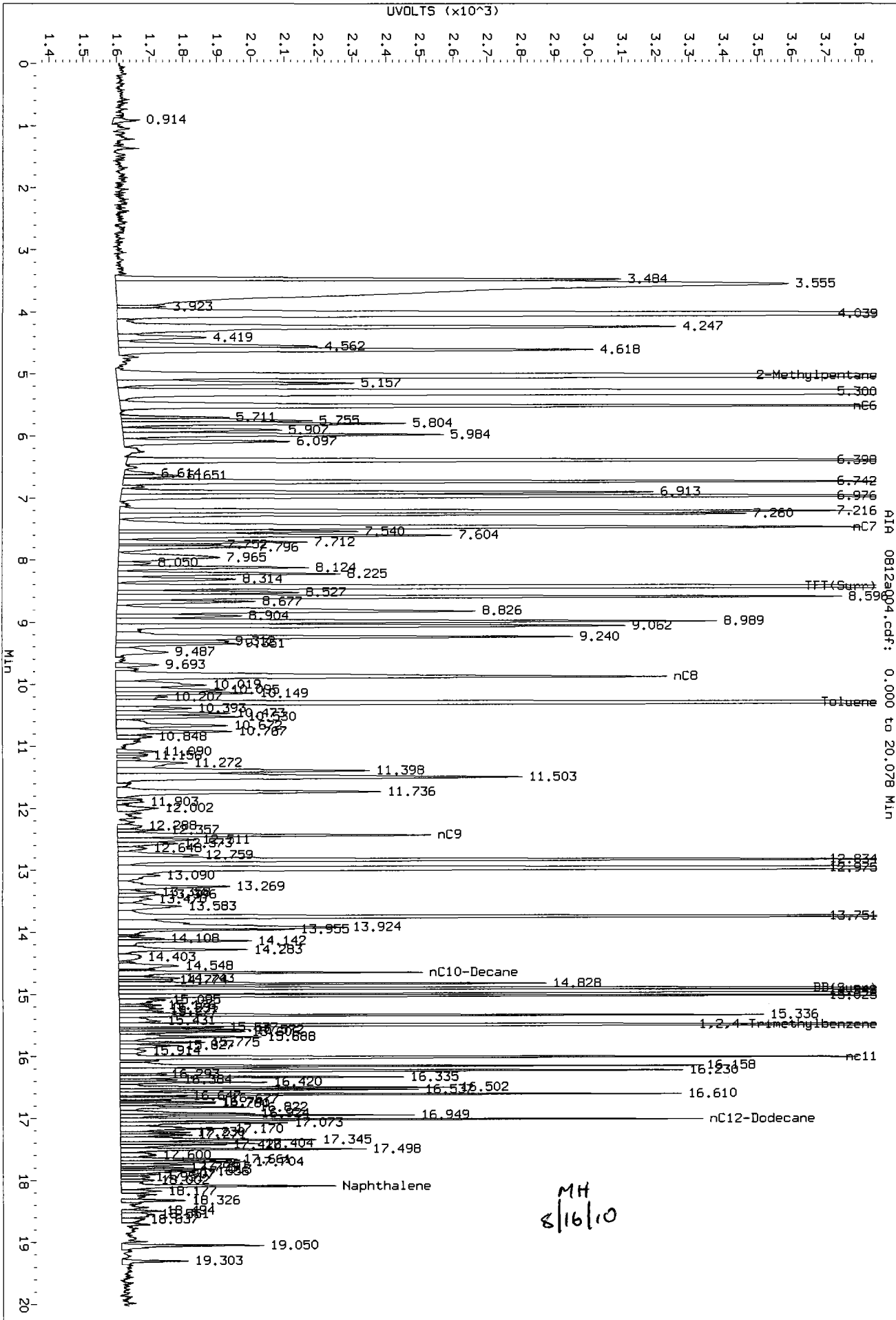
Data File: /chem3/pid3.i/20100812-1.b/0812a004.d
Date: 12-AUG-2010 08:01
Client ID:
Sample Info: LCS0812
Column phase: RTX 502-2 PID

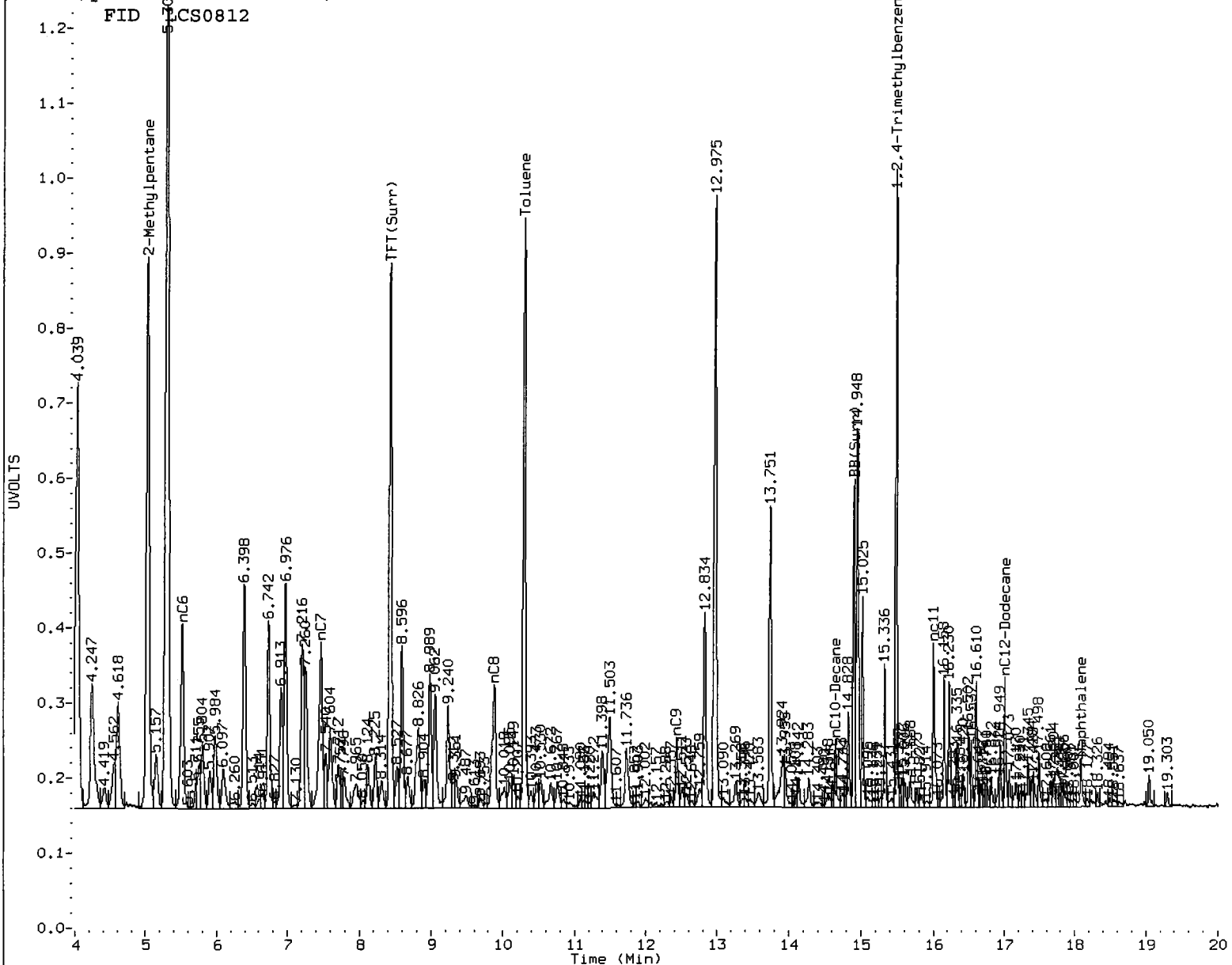
Instrument: pid3.i
Operator: MH
Column diameter: 0.18



/chem3/pid3.i/20100812-1.b/0812a004.d/0812a004.cdf

Data File: /chem3/pid3_1/20100812-2_b/0812a004.d/0812a004.cdf
Injection Date: 12-AUG-2010 08:01
Instrument: pid3.1
Client Sample ID:





MANUAL INTEGRATION

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

Analyst: MH Date: 8/16/10

M.
8/16/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100812-2.b/0812a005.d ARI ID: LCSD0812
Data file 2: /chem3/pid3.i/20100812-1.b/0812a005.d Client ID:
Method: /chem3/pid3.i/20100812-1.b/PIDB.m Injection Date: 12-AUG-2010 08:26
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	-----	-----
8.437	0.029	7161	84854	99.5	TFT(Surr)
14.908	0.022	4224	35453	98.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	-----	-----	-----
WAGas Tol-C12 (10.17 to 17.11)	827807	738692	0.892 M
8015B 2MP-TMB (4.92 to 15.58)	1664107	1492971	0.897 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	1005720	0.889 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	789534	0.895 M

M Indicates manual integration within range

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

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	-----	-----
8.436	0.029	20907	95.1	TFT(Surr)
14.907	0.022	43711	95.9	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
7.713	0.026	2859	2.16	Benzene
10.302	0.032	36978	28.02	Toluene
12.836	0.033	10629	8.55	Ethylbenzene
12.976	0.036	41424	30.76	M/P-Xylene
13.753	0.030	17007	13.24	O-Xylene
5.304	0.015	33219	93.36	MTBE

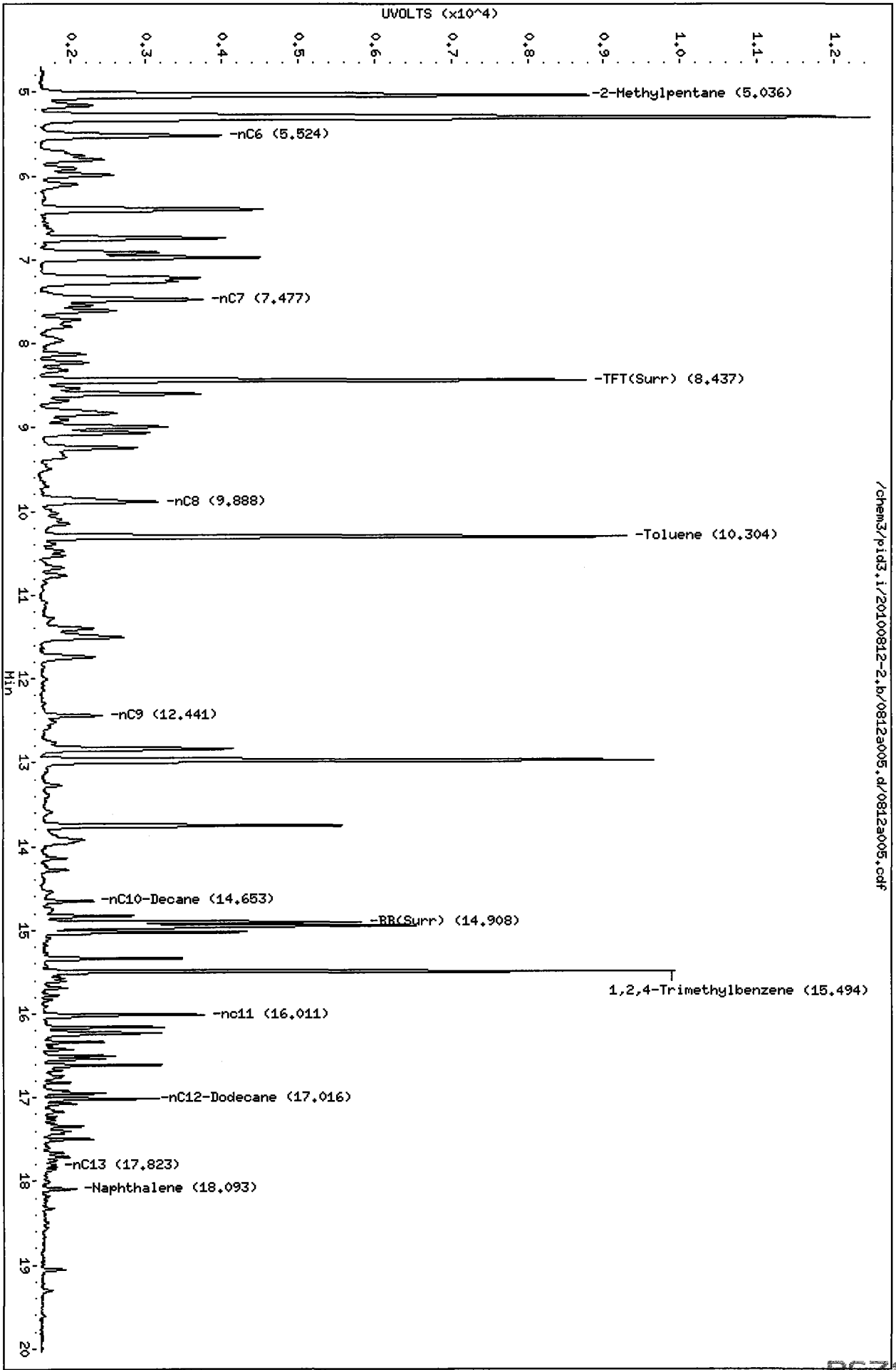
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid3.i/20100812-2.b/0812a005.d
Date: 12-AUG-2010 08:26
Client ID:
Sample Info: LCSD0812

Column phase: RTX 502-2 FID

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

/chem3/pid3.i/20100812-2.b/0812a005.d/0812a005.cdf



Data File: /chem3/pid3.i/20100812-1.b/0812a005.d

Date: 12-AUG-2010 08:26

Client ID:

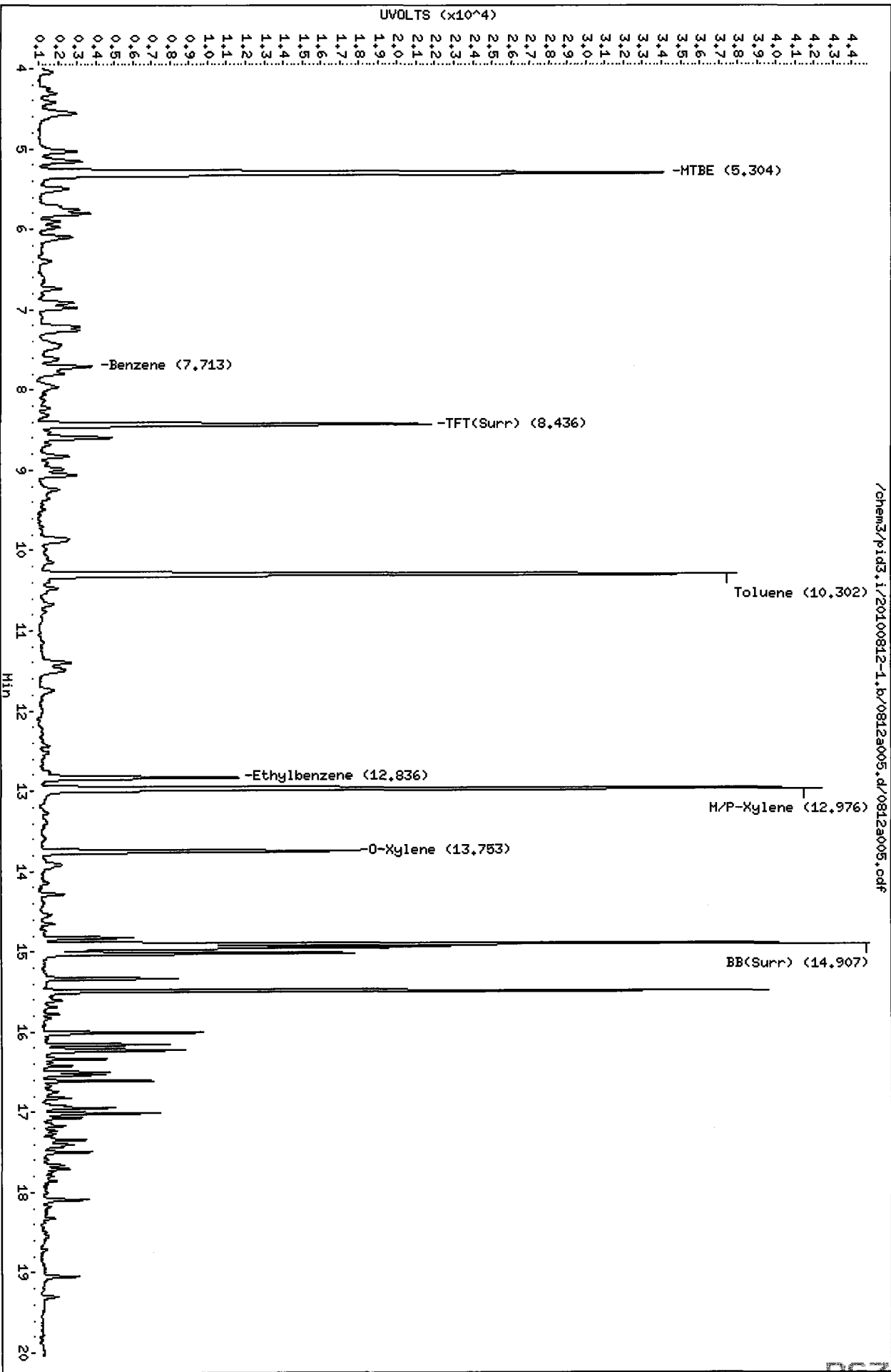
Sample Info: LCSD0812

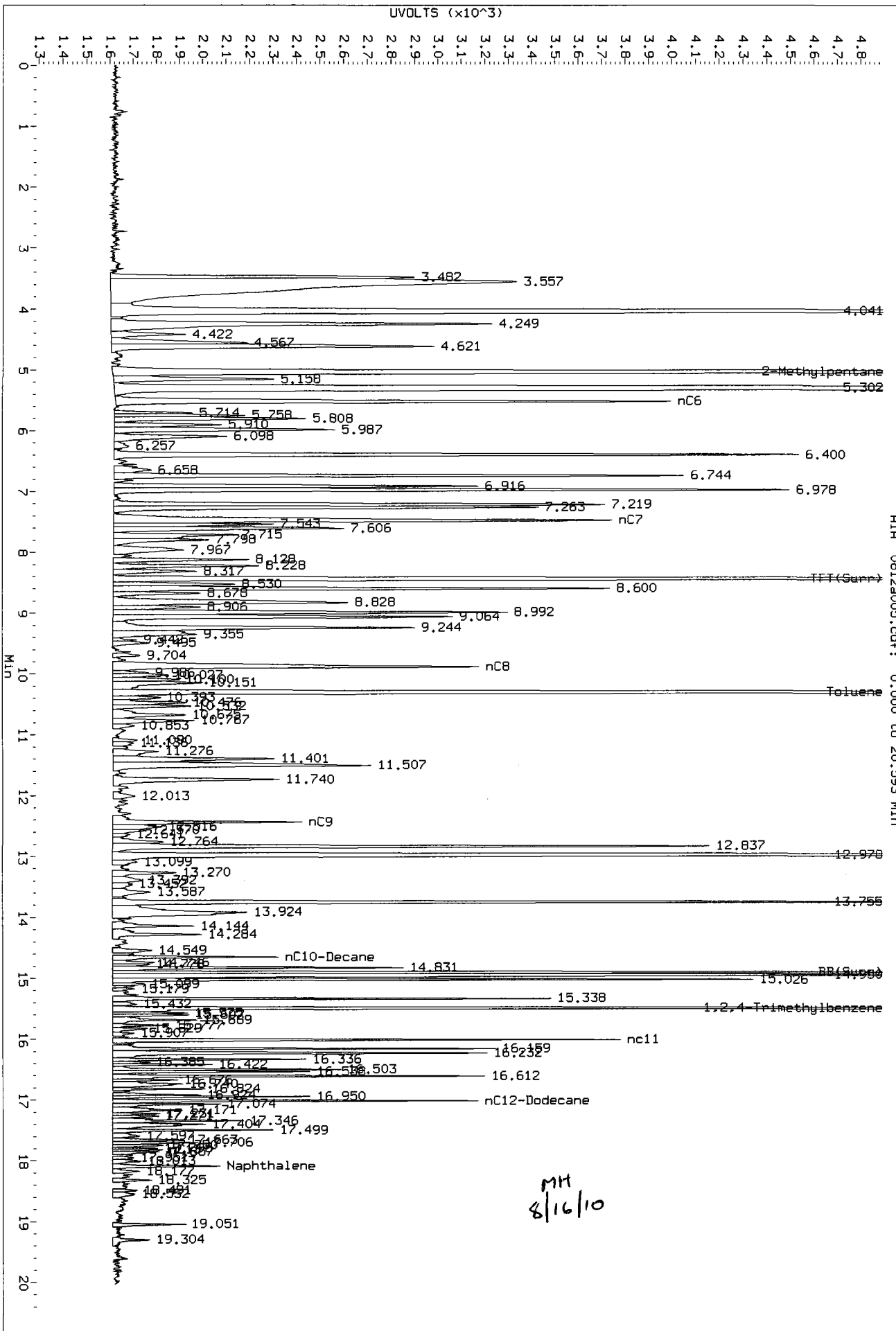
Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

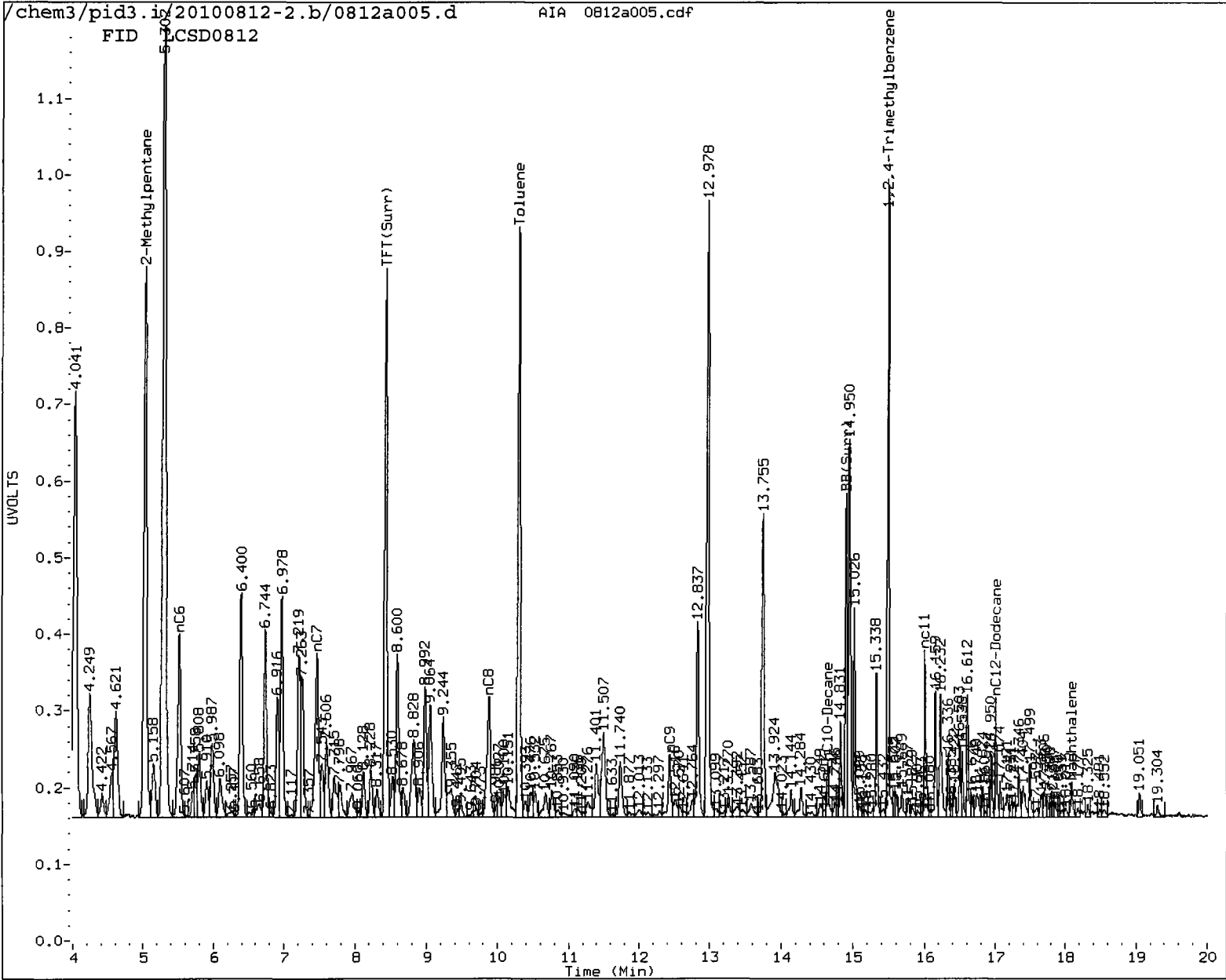




AIA 0812a005.cdf: 0.000 to 20.593 MIN

MH
8/16/10

FID LCSD0812



MANUAL INTEGRATION

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

Analyst: MM

Date: 8/16/10

8/16/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100812-2.b/0812a006.d ARI ID: MB0812
Data file 2: /chem3/pid3.i/20100812-1.b/0812a006.d Client ID:
Method: /chem3/pid3.i/20100812-1.b/PIDB.m Injection Date: 12-AUG-2010 08:50
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.439	0.031	6838	80586	95.0	TFT (Surr)
14.910	0.023	4124	33373	95.8	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	4876	0.006
8015B 2MP-TMB (4.92 to 15.58)	1664107	1507	0.001
AK101 nC6-nC10 (5.41 to 14.53)	1131784	1	0.000
NWTPHG Tol-Nap (10.17 to 18.18)	882029	7391	0.008

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.437	0.031	19839	90.2	TFT (Surr)
14.908	0.023	42358	92.9	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/20100812-2.b/0812a006.d

Date: 12-AUG-2010 08:50

Client ID:

Sample Info: HB0812

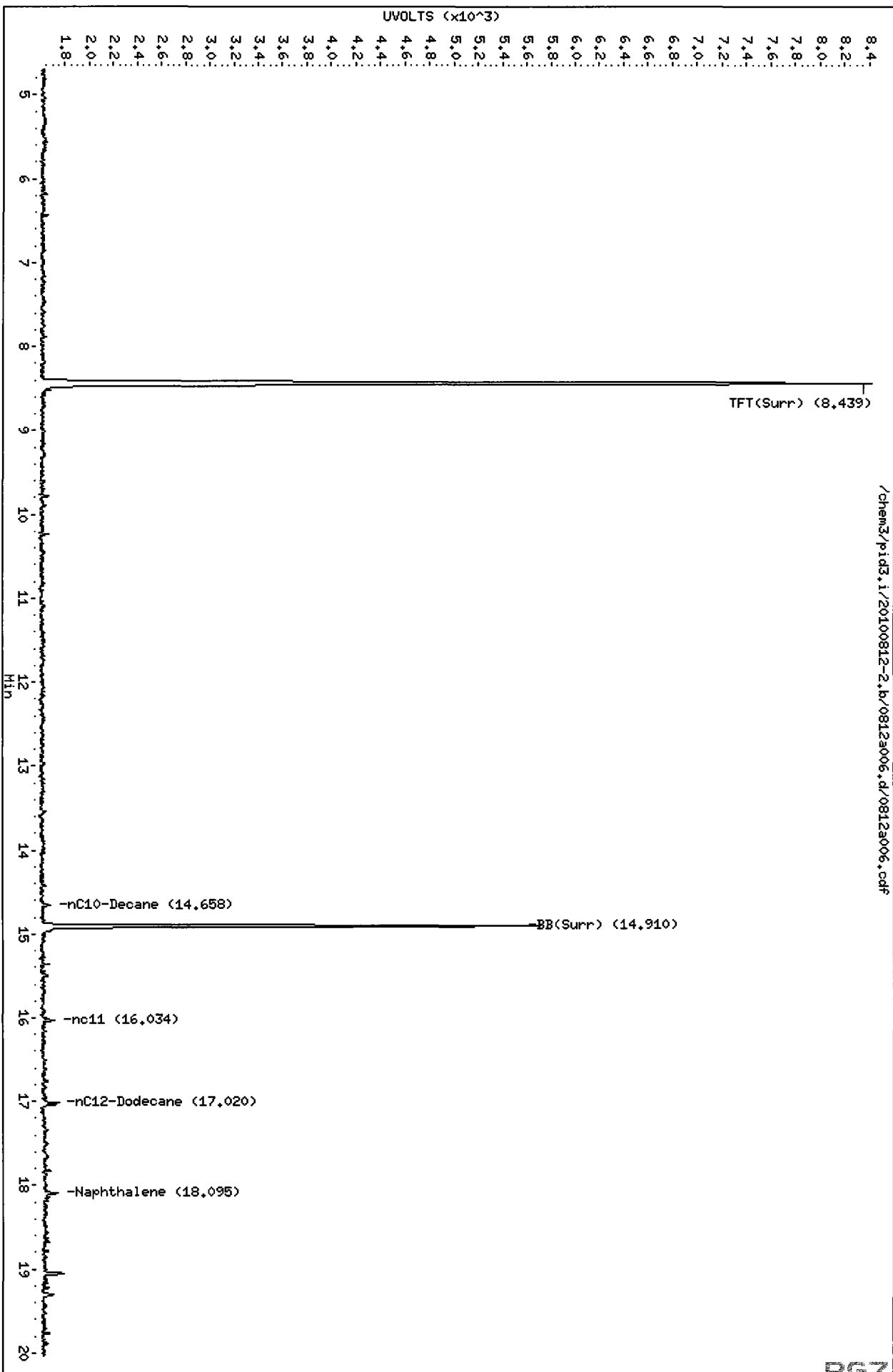
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

/chem3/pid3.i/20100812-2.b/0812a006.d/0812a006.cdf



Data File: /chem3/pid3.i/20100812-1.b/0812a006.d

Date: 12-AUG-2010 08:50

Client ID:

Sample Info: MB0812

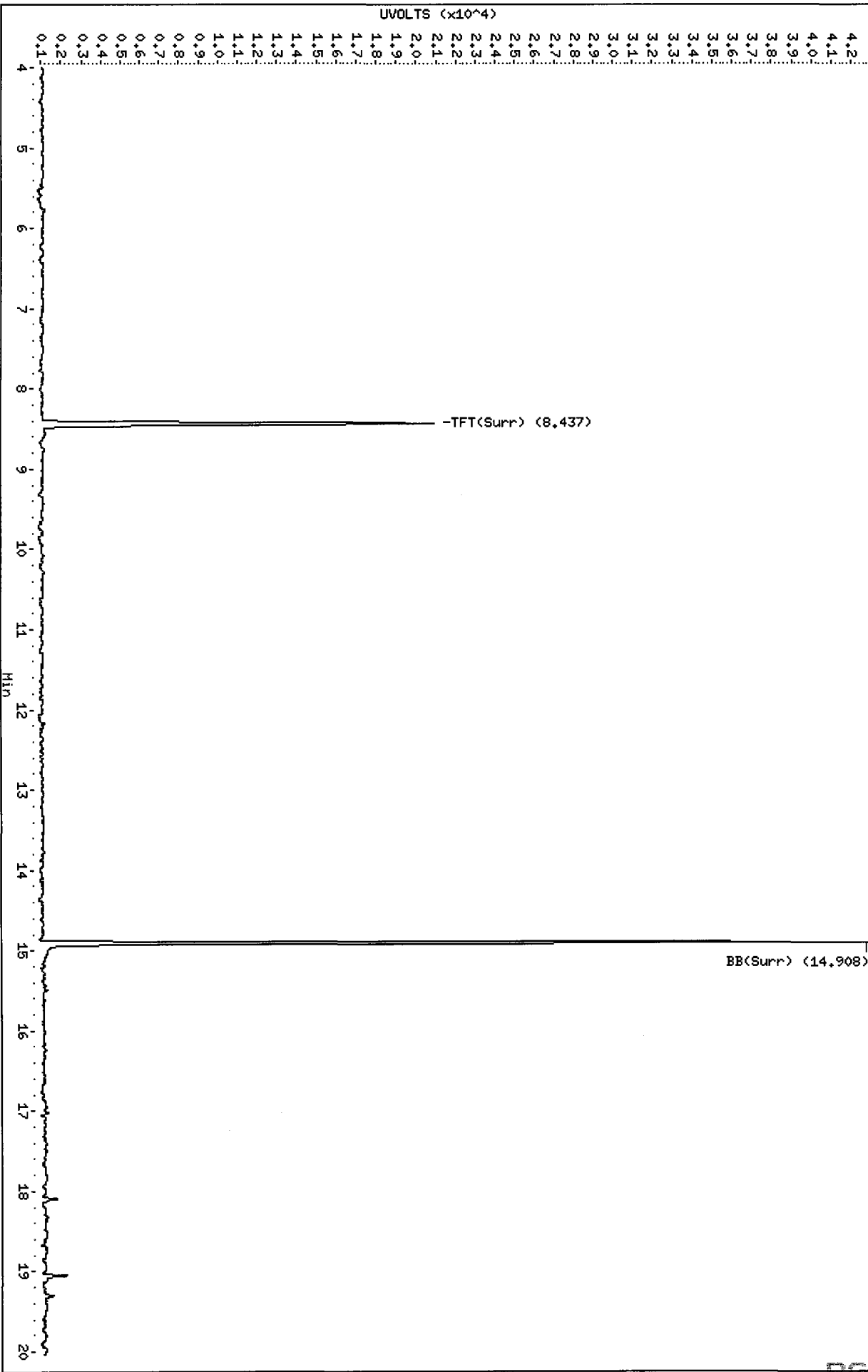
Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

/chem3/pid3.i/20100812-1.b/0812a006.d/0812a006.cdf



8/16/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100812-2.b/0812a014.d ARI ID: BCAL 2
Data file 2: /chem3/pid3.i/20100812-1.b/0812a014.d Client ID:
Method: /chem3/pid3.i/20100812-1.b/PIDB.m Injection Date: 12-AUG-2010 12:39
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.439	0.031	7155	84723	99.4	TFT (Surr)
14.910	0.023	4345	35153	100.9	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	552348	0.667
8015B 2MP-TMB (4.92 to 15.58)	1664107	557848	0.335
AK101 nC6-nC10 (5.41 to 14.53)	1131784	520451	0.460
NWTPHG Tol-Nap (10.17 to 18.18)	882029	552348	0.626

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.437	0.030	20968	95.4	TFT (Surr)
14.907	0.022	44853	98.4	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.713	0.026	34276	25.92	Benzene
10.303	0.033	33351	25.27	Toluene
12.838	0.035	30075	24.20	Ethylbenzene
12.976	0.035	66160	49.13	M/P-Xylene
13.754	0.032	32477	25.28	O-Xylene
5.303	0.014	9491	26.67	MTBE

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

Data File: /chem3/pid3.i/20100812-2.b/0812a014.d

Date: 12-AUG-2010 12:39

Client ID:

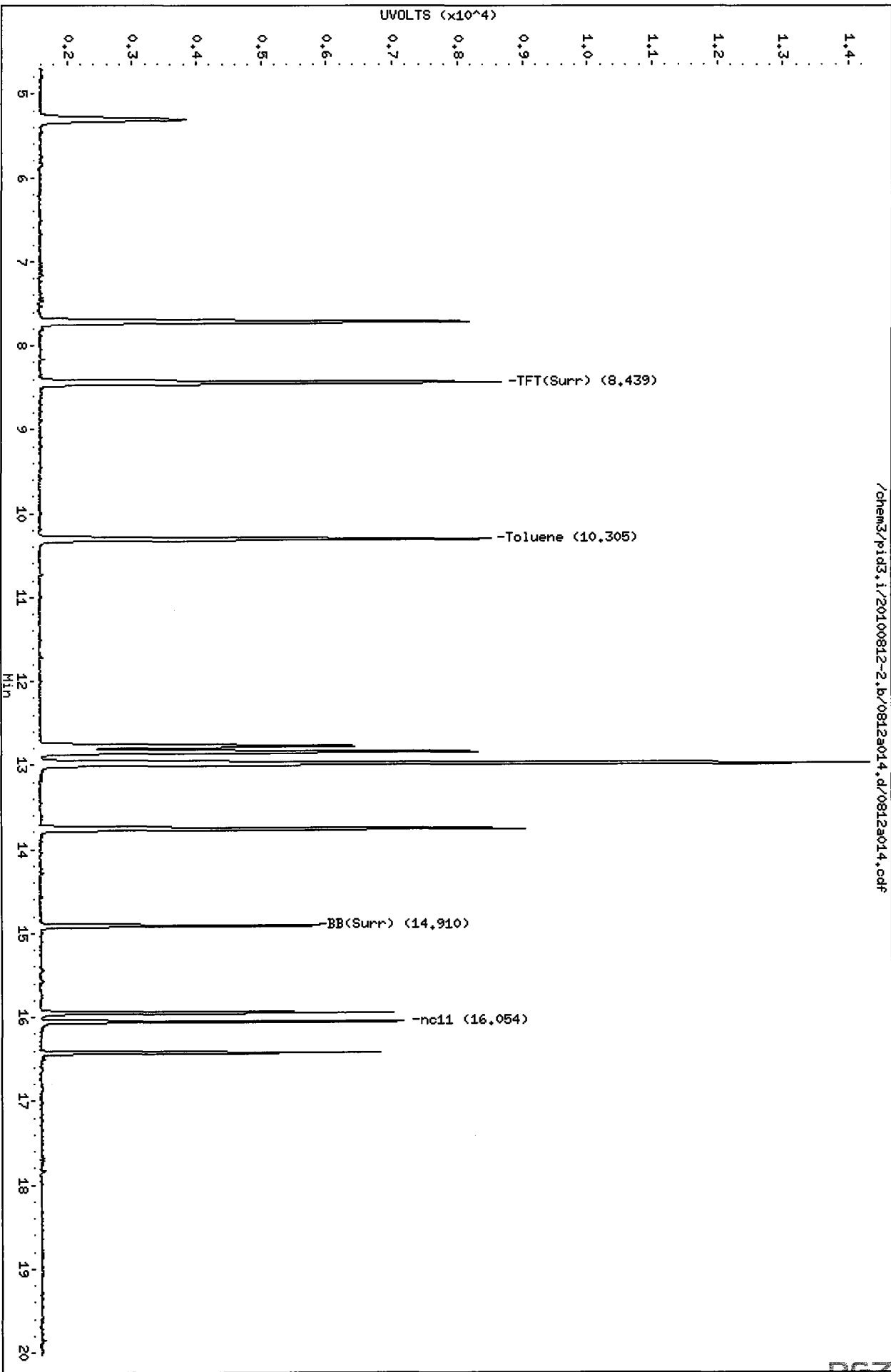
Sample Info: BCAL 2

Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: MH

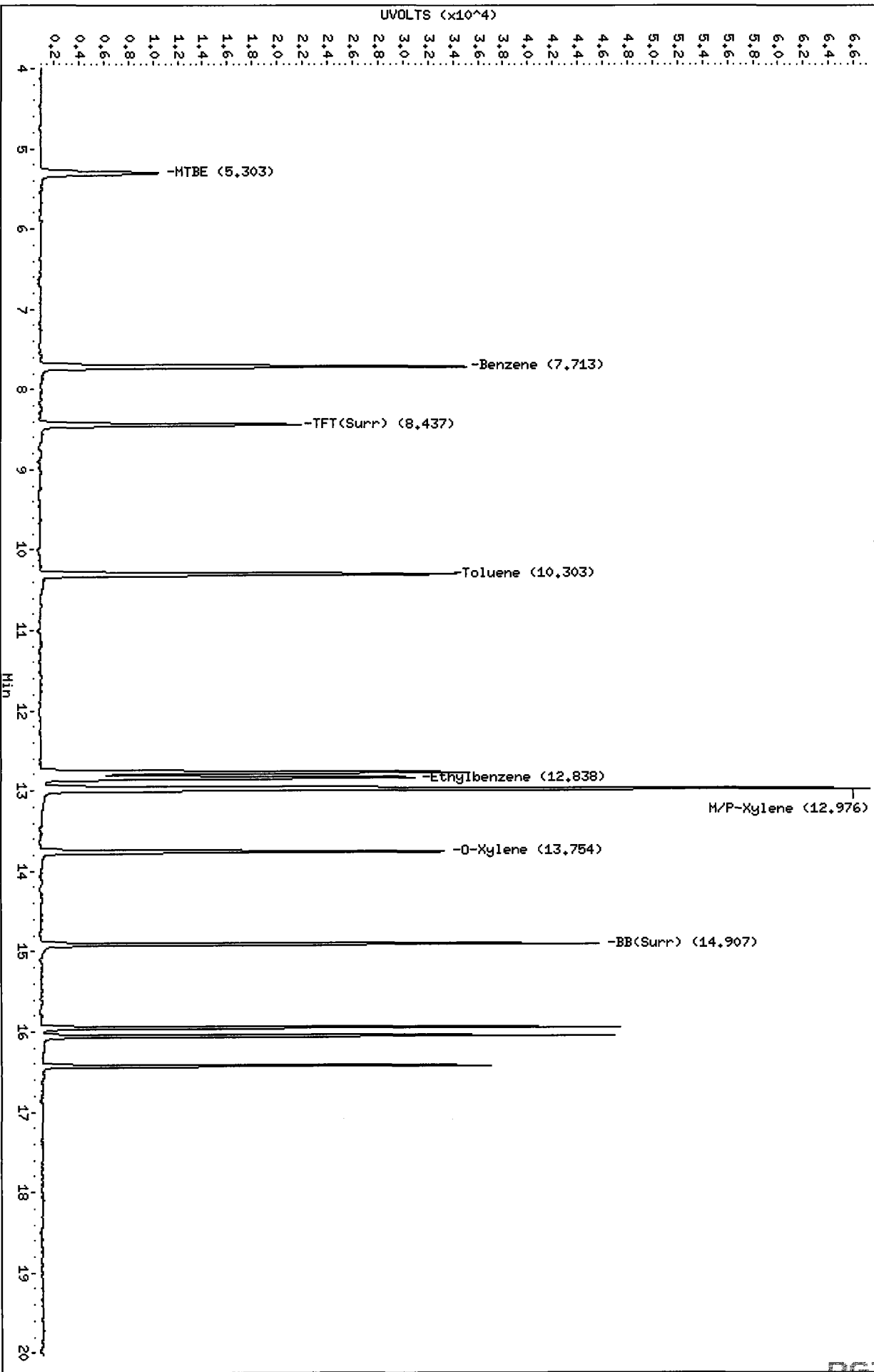
Column diameter: 0.18



Data File: /chem3/pid3.i/20100812-1.b/0812a014.d
Date: 12-AUG-2010 12:39
Client ID:
Sample Info: BCAL 2
Column phase: RTX 502-2 PID

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

/chem3/pid3.i/20100812-1.b/0812a014.d/0812a014.cdf



M.
8/16/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100812-2.b/0812a015.d ARI ID: GCAL 2
Data file 2: /chem3/pid3.i/20100812-1.b/0812a015.d Client ID:
Method: /chem3/pid3.i/20100812-1.b/PIDB.m Injection Date: 12-AUG-2010 13:04
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	----	----	-----
8.439	0.031	7069	84973	98.2	TFT (Surr)
14.910	0.023	4337	35744	100.7	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (10.17 to 17.11)	827807	1896198	2.291 M
8015B 2MP-TMB (4.92 to 15.58)	1664107	3767056	2.264 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	2529428	2.235 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	2005445	2.274 M

M Indicates manual integration within range

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

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	----	-----
8.437	0.031	20708	94.2	TFT (Surr)
14.908	0.023	43945	96.4	BB (Surr)

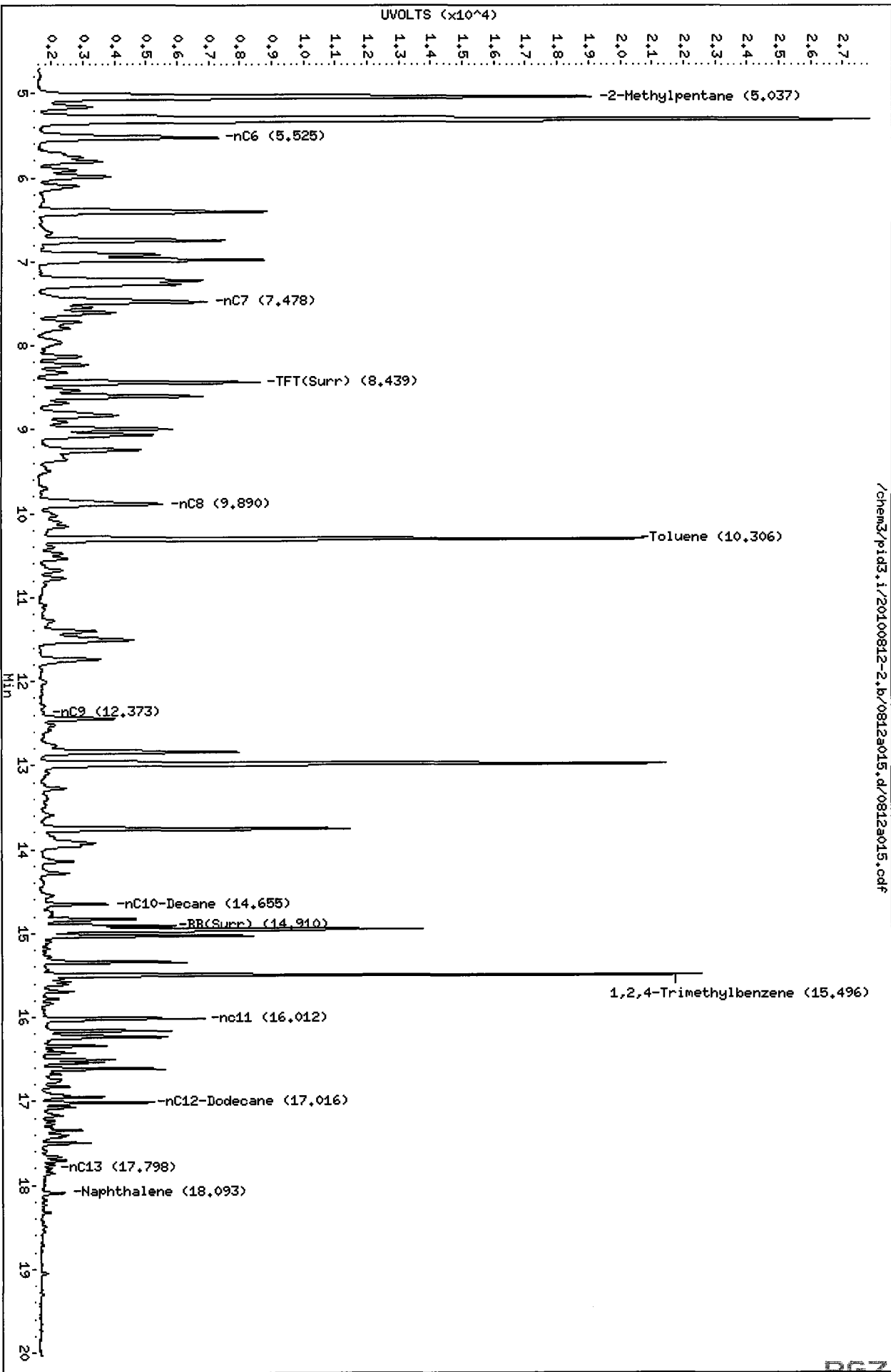
SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
7.715	0.028	6967	5.27	Benzene
10.305	0.035	92596	70.16	Toluene
12.839	0.036	26667	21.46	Ethylbenzene
12.980	0.039	103005	76.49	M/P-Xylene
13.755	0.033	42691	33.23	O-Xylene
5.309	0.020	82150	230.89	MTBE

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

Data File: /chem3/pid3.i/20100812-2.b/0812a015.d
Date: 12-AUG-2010 13:04
Client ID:
Sample Info: GCAL 2
Column phase: RTX 502-2 FID

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



/chem3/pid3.i/20100812-2.b/0812a015.d/0812a015.cdf

Data File: /chem3/pid3.i/20100812-1.b/0812a015.d

Date: 12-AUG-2010 13:04

Client ID:

Sample Info: GCAL 2

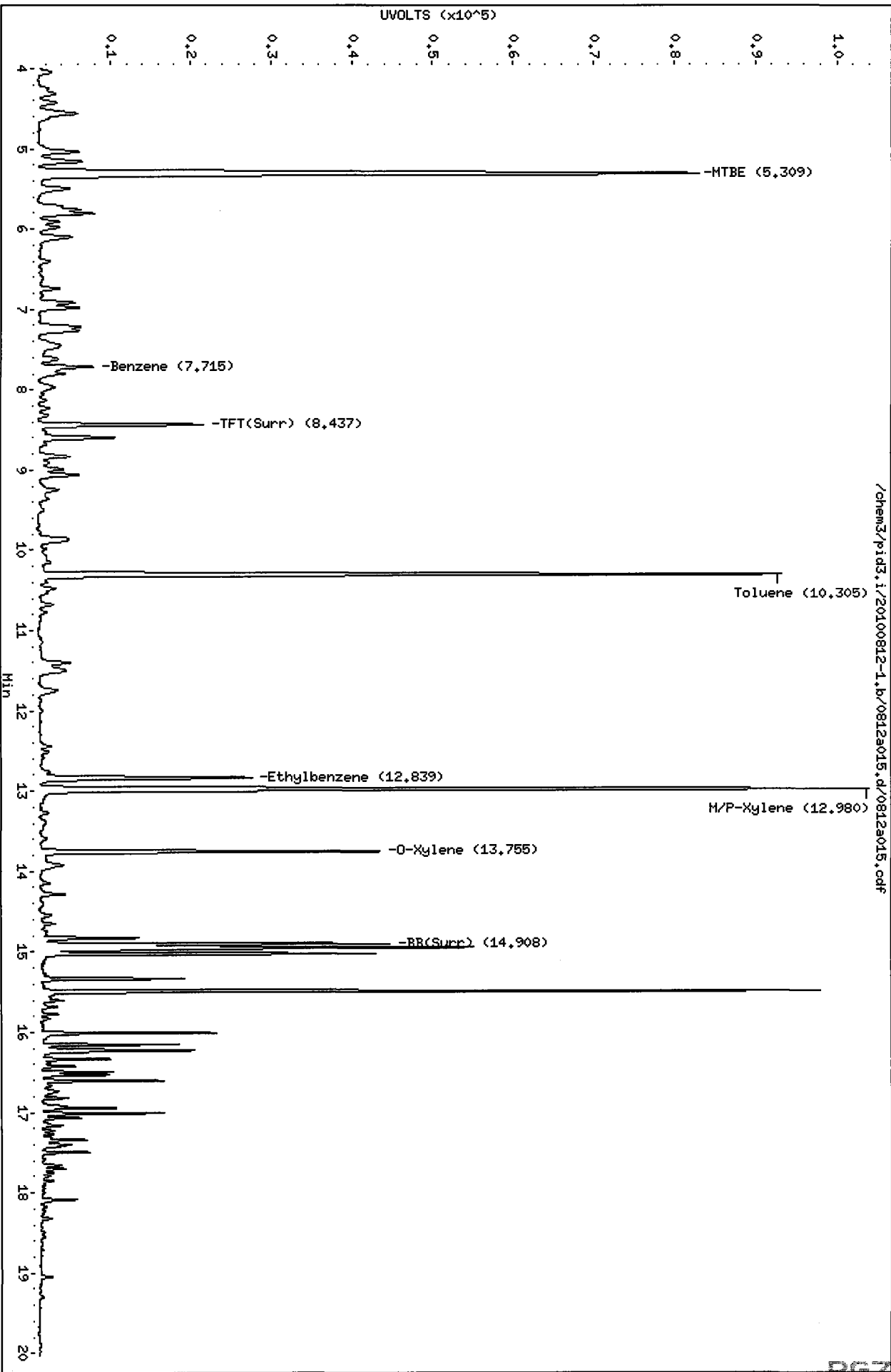
Column phase: RTX 502-2 PID

Instrument: pid3.i

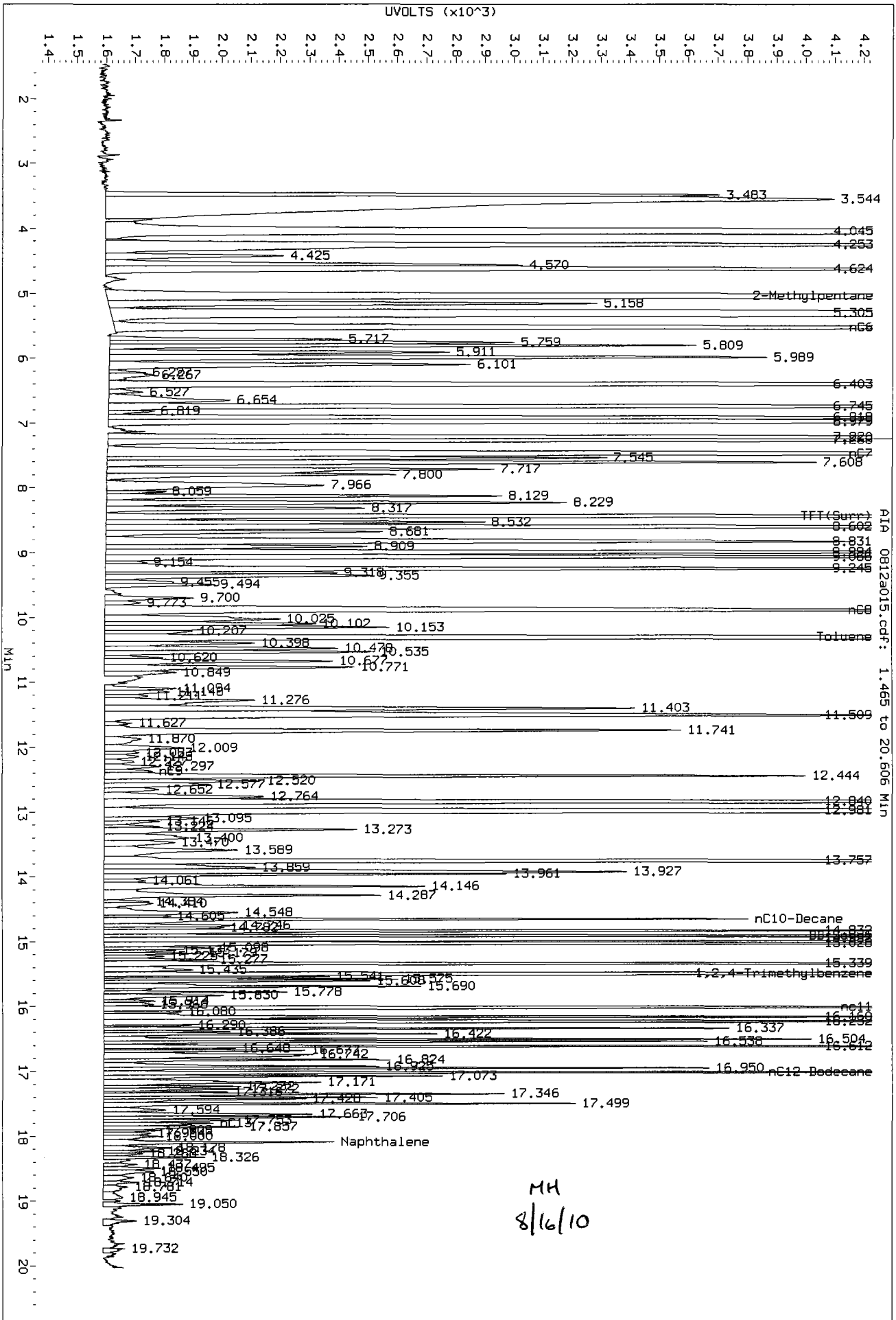
Operator: MH

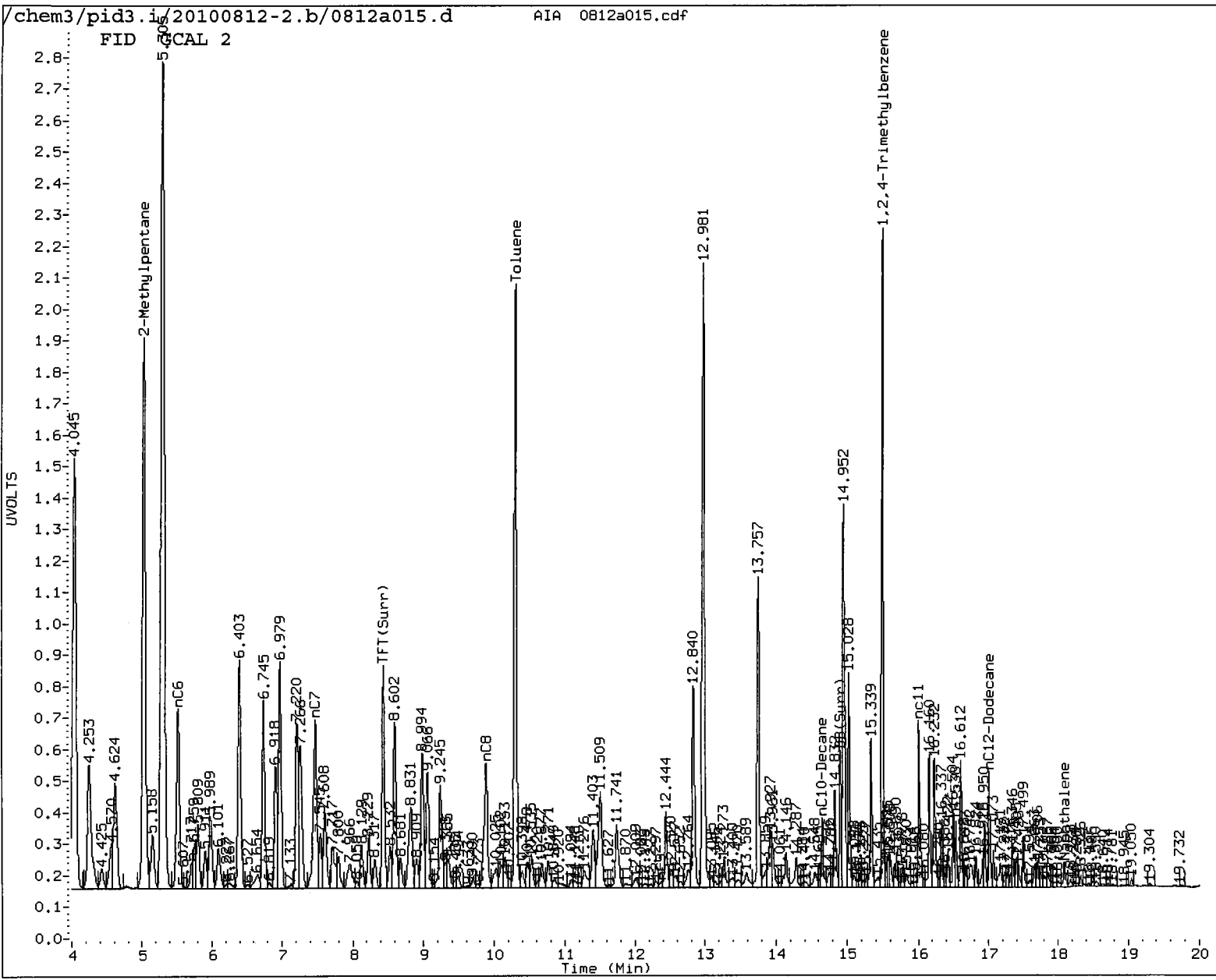
Column diameter: 0.18

Page 1



RG78 : 01580





8/16/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100812-2.b/0812a028.d ARI ID: RG78C
Data file 2: /chem3/pid3.i/20100812-1.b/0812a028.d Client ID: PSB9A-2-4-073010
Method: /chem3/pid3.i/20100812-1.b/PIDB.m Injection Date: 12-AUG-2010 18:24
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.445	0.038	7006	83202	97.3	TFT(Surr)
14.913	0.026	4324	36023	100.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	5009	0.006
8015B 2MP-TMB (4.92 to 15.58)	1664107	5015	0.003
AK101 nC6-nC10 (5.41 to 14.53)	1131784	3777	0.003
NWTPHG Tol-Nap (10.17 to 18.18)	882029	6451	0.007

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.444	0.038	20429	92.9	TFT(Surr)
14.911	0.026	43678	95.8	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

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

Data File: /chem3/pid3.i/20100812-2.b/0812a028.d

Date: 12-AUG-2010 18:24

Client ID: PSB9A-2-4-073010

Sample Info: RG79C

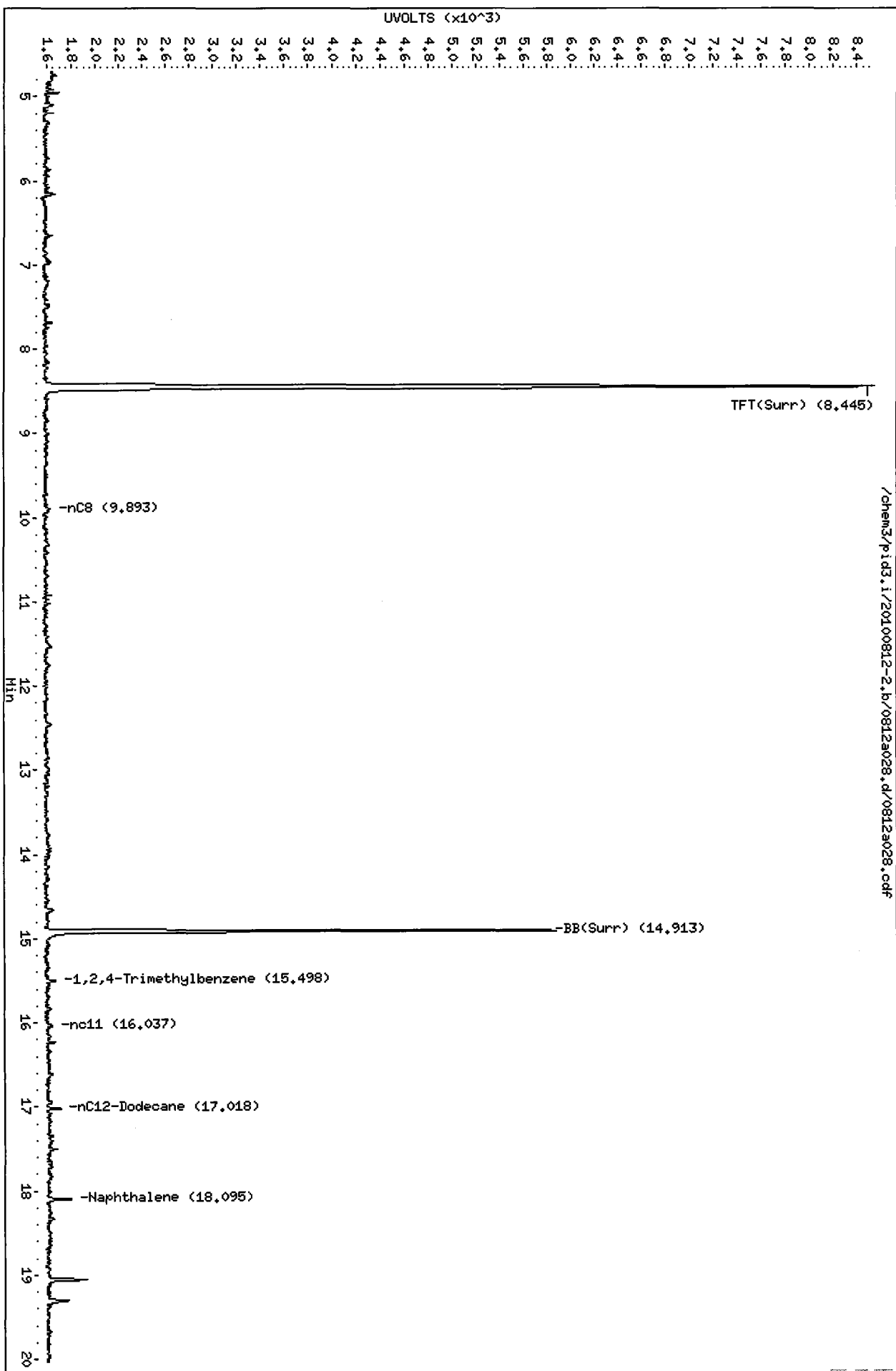
Column phase: RTX 502-2 FID

Instrument: pid3.i

Operator: HH

Column diameter: 0.18

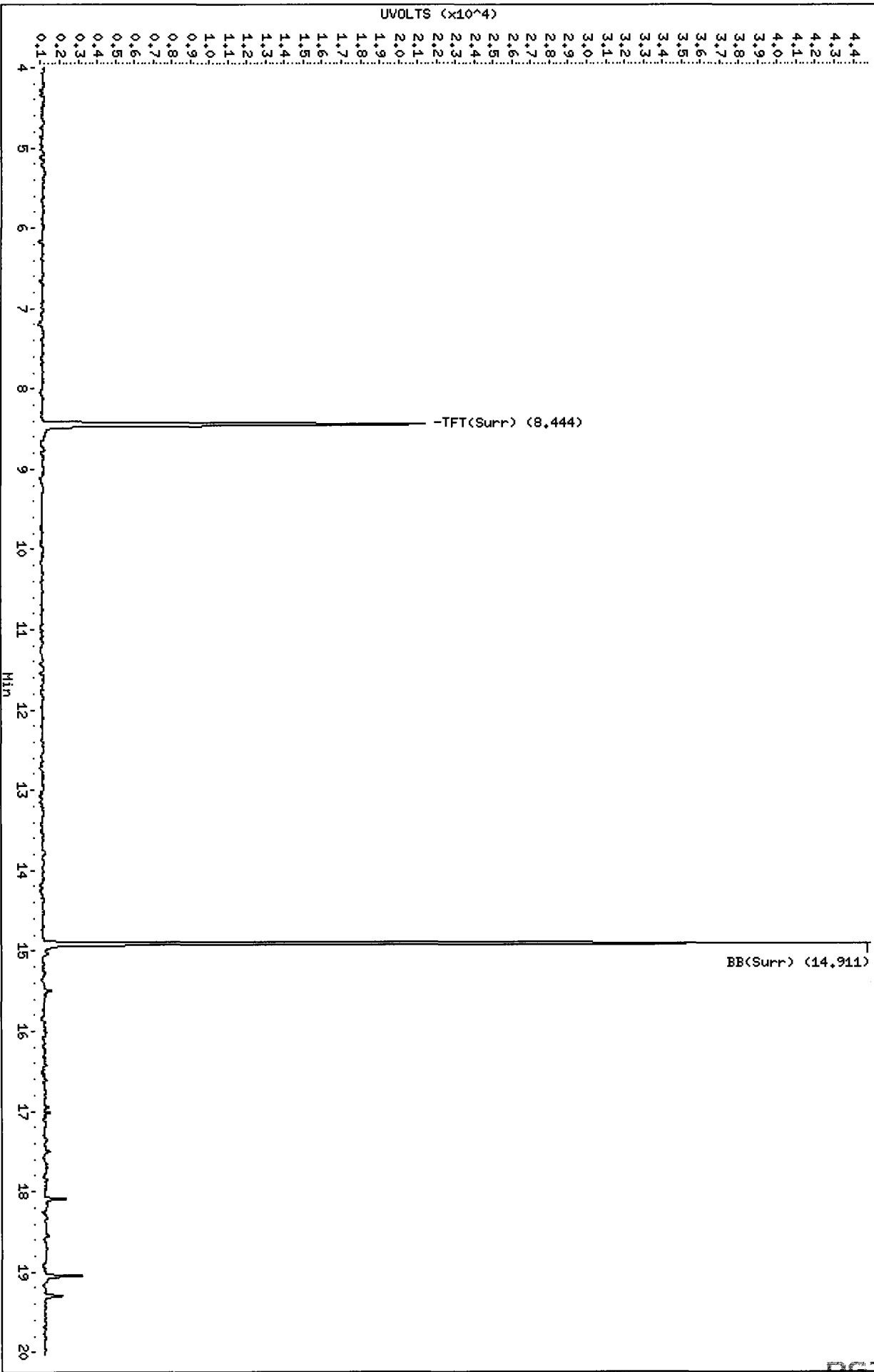
Page 1



Data File: /chem3/pid3.i/20100812-1.b/0812a028.d
Date: 12-AUG-2010 18:24
Client ID: PSB9A-2-4-073010
Sample Info: RG78C
Column phase: RTX 502-2 PID

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

/chem3/pid3.i/20100812-1.b/0812a028.d/0812a028.cdf



M.
8/16/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100812-2.b/0812a029.d ARI ID: RG78E
Data file 2: /chem3/pid3.i/20100812-1.b/0812a029.d Client ID: PSB9A-0-0.5-073010
Method: /chem3/pid3.i/20100812-1.b/PIDB.m Injection Date: 12-AUG-2010 18:48
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	----	----	-----
8.442	0.034	6934	82095	96.3	TFT (Surr)
14.912	0.026	4269	36270	99.1	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (10.17 to 17.11)	827807	193376	0.234 M
8015B 2MP-TMB (4.92 to 15.58)	1664107	179080	0.108 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	162375	0.143 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	194971	0.221 M

M Indicates manual integration within range

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

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	----	-----
8.441	0.034	20194	91.9	TFT (Surr)
14.910	0.025	44292	97.2	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/pid3.1/20100812-2.b/0812a029.d

Date: 12-AUG-2010 18:48

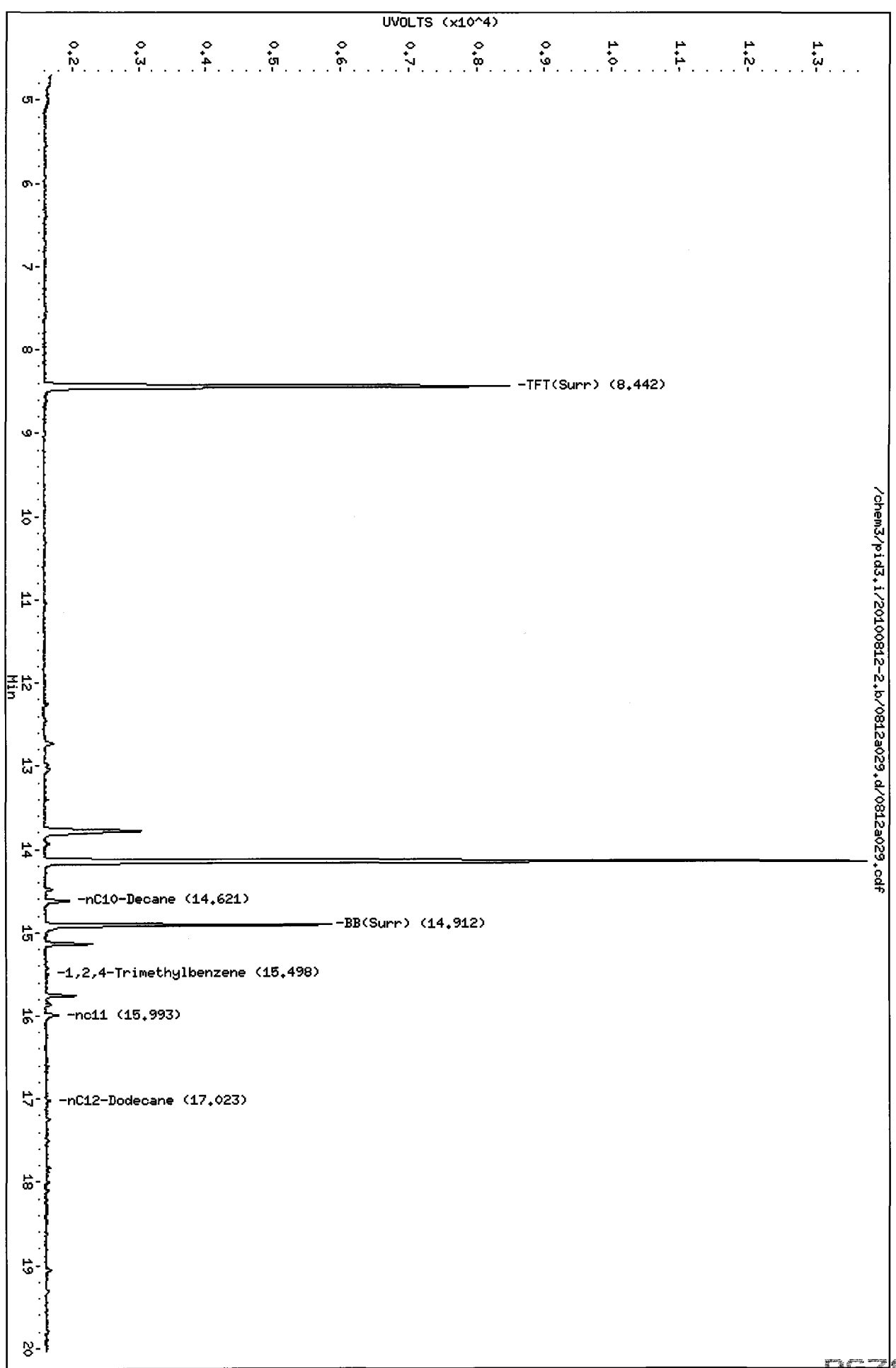
Client ID: PSB9A-0-0.5-073010

Sample Info: RC78E

Page 1

Column phase: RTX 502-2 FID

Instrument: pid3.1
Operator: MH
Column diameter: 0.18



/chem3/pid3.1/20100812-2.b/0812a029.d/0812a029.cdf

Data File: /chem3/pid3.i/20100812-1.b/0812a029.d

Date: 12-AUG-2010 18:48

Client ID: PSB9A-0-0.5-073010

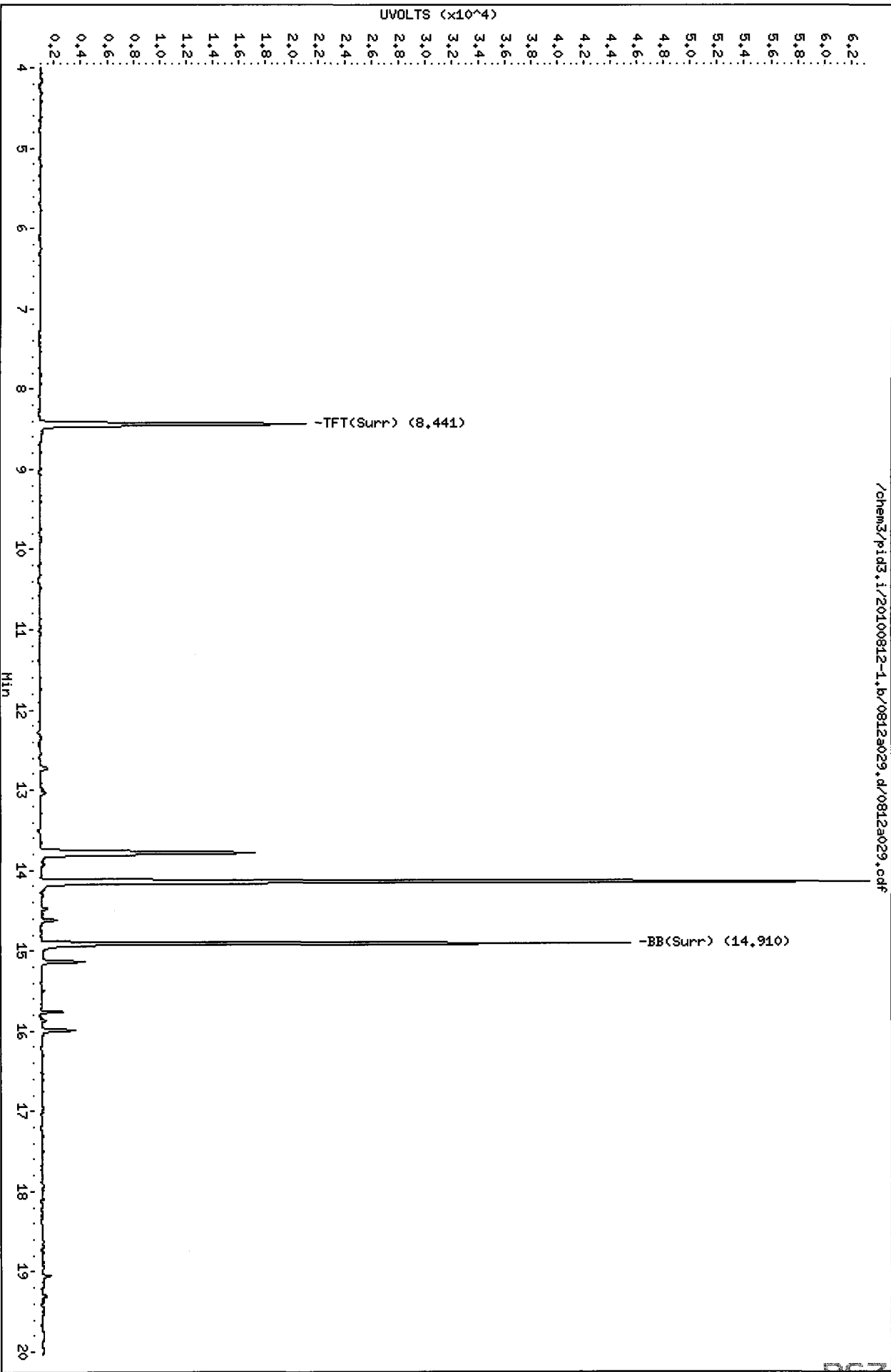
Sample Info: RG78E

Column phase: RTX 502-2 PID

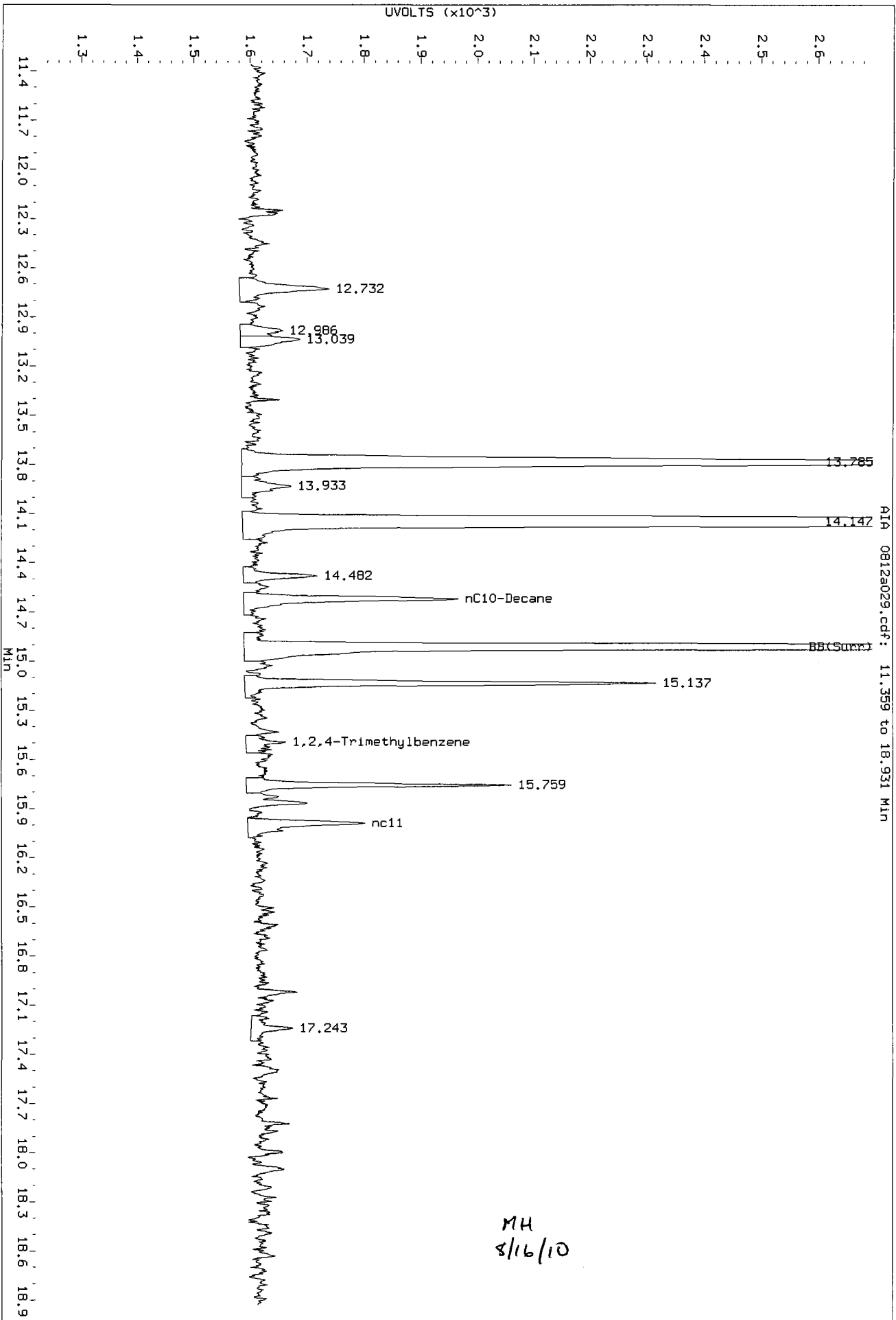
Instrument: pid3.i

Operator: MH

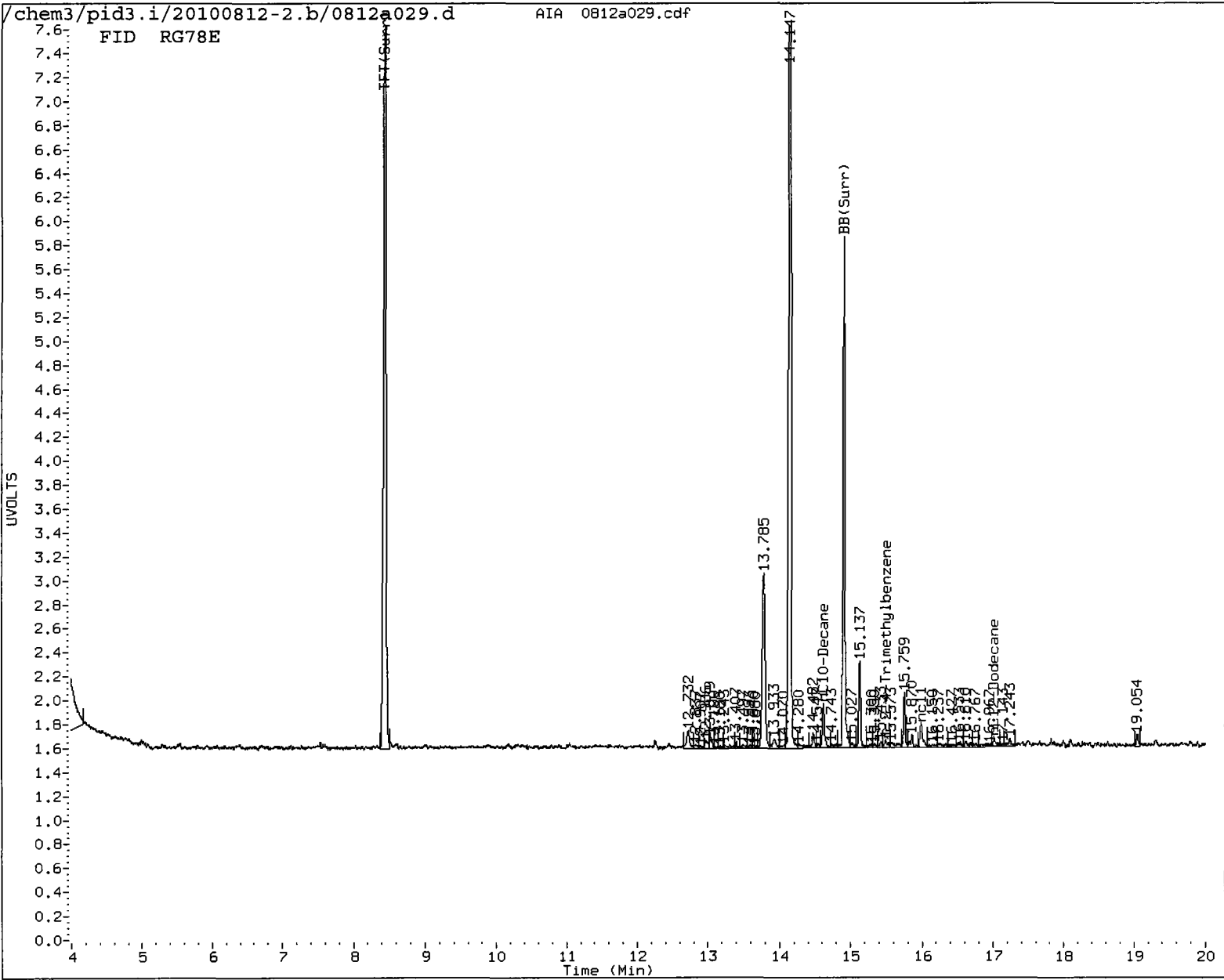
Column diameter: 0.18



Data File: /chem3/pid3.1/20100812-2.b/0812a029.d/0812a029.cdf
Injection Date: 12-AUG-2010 18:48
Instrument: pid3.1
Client Sample ID: PSB9A-0-0.5-073010



MH
8/16/10



MANUAL INTEGRATION

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

Analyst: MH Date: 8/16/10

8/16/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100812-2.b/0812a030.d ARI ID: RG78G
Data file 2: /chem3/pid3.i/20100812-1.b/0812a030.d Client ID: PSB10-1.5-2-073010
Method: /chem3/pid3.i/20100812-1.b/PIDB.m Injection Date: 12-AUG-2010 19:12
Instrument: pid3.i Matrix: SOIL
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	----	----	-----
8.446	0.038	7041	83096	97.8	TFT (Surr)
14.913	0.026	4322	34718	100.4	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (10.17 to 17.11)	827807	4855	0.006
8015B 2MP-TMB (4.92 to 15.58)	1664107	3658	0.002
AK101 nC6-nC10 (5.41 to 14.53)	1131784	3658	0.003
NWTPHG Tol-Nap (10.17 to 18.18)	882029	4855	0.006

M Indicates manual integration within range

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

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	----	-----
8.444	0.038	20366	92.6	TFT (Surr)
14.911	0.026	43766	96.0	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/20100812-2.b/0812a030.d

Date: 12-AUG-2010 19:12

Client ID: PSB10-1.5-2-073010

Sample Info: RG78G

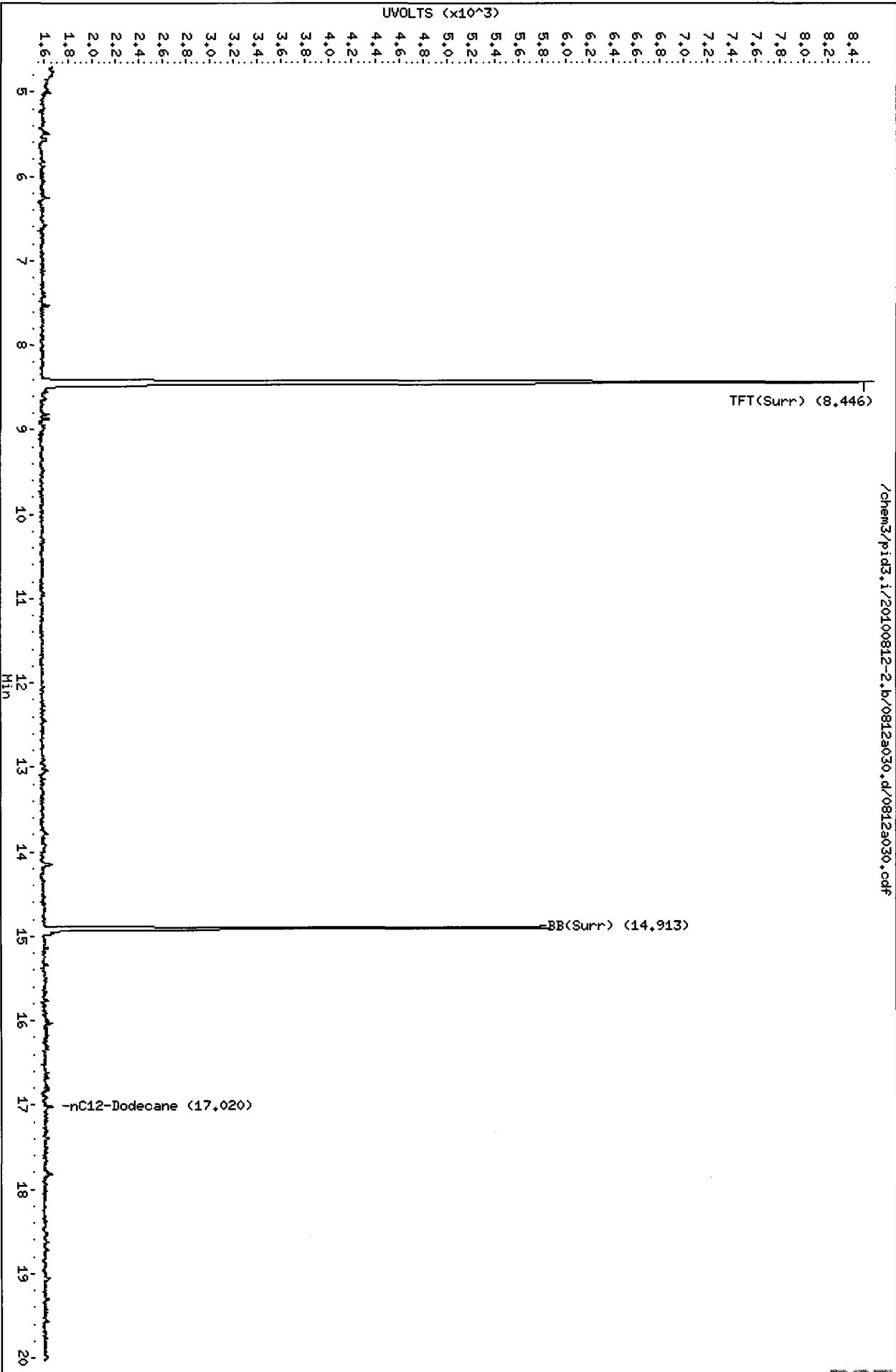
Page 1

Instrument: pid3.i

Operator: MH

Column diameter: 0.18

Column phase: RTX 502-2 FID



Data File: /chem3/pid3.i/20100812-1.b/0812a030.d

Date: 12-AUG-2010 19:12

Client ID: PS810-1.5-2-073010

Sample Info: RG786

Page 1

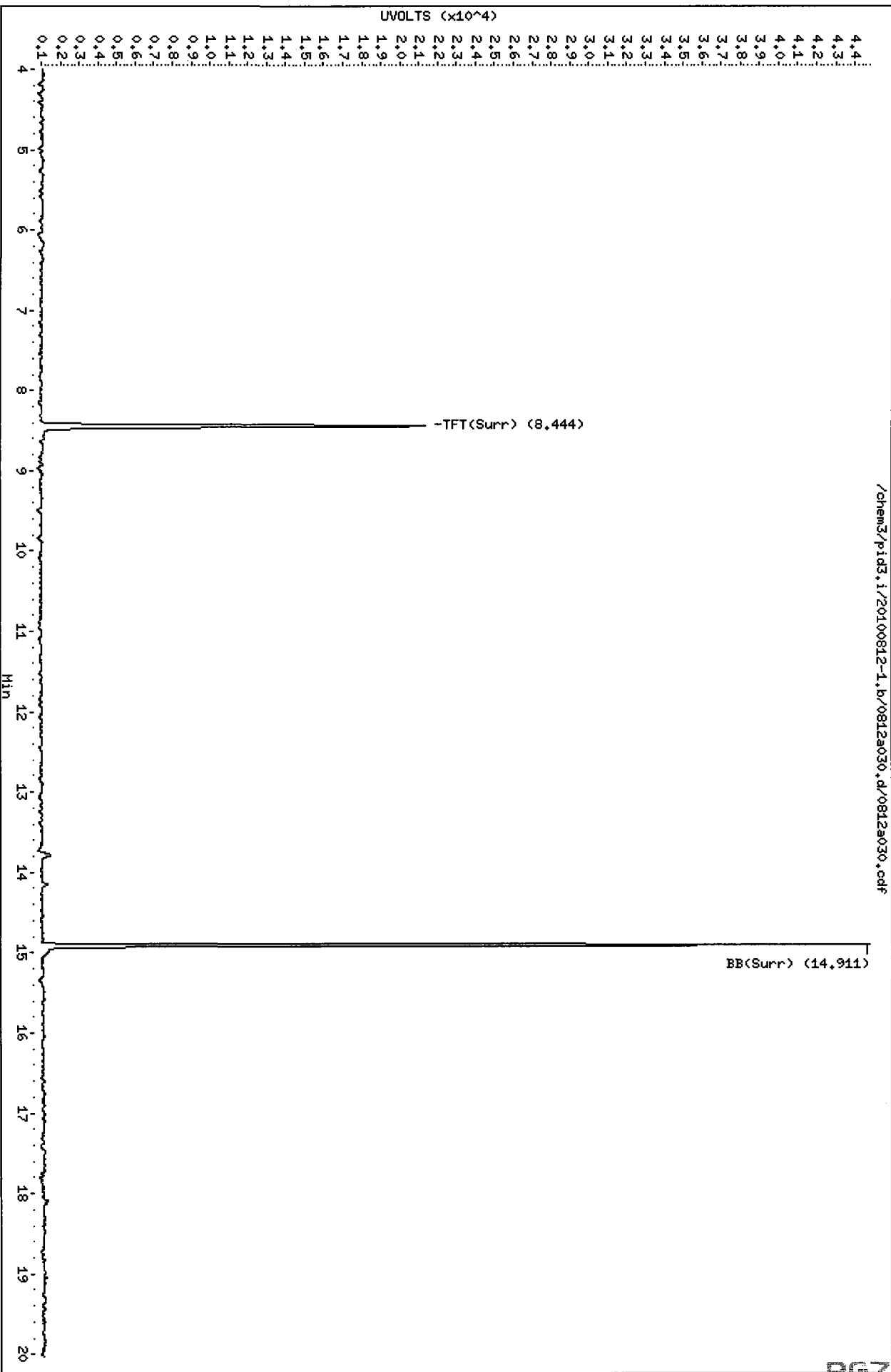
Instrument: pid3.i

Operator: MH

Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem3/pid3.i/20100812-1.b/0812a030.d/0812a030.cdf



RG78 : 01590

8/26/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100812-2.b/0812a036.d ARI ID: BCAL 4
Data file 2: /chem3/pid3.i/20100812-1.b/0812a036.d Client ID: BCAL 4
Method: /chem3/pid3.i/20100812-1.b/PIDB.m Injection Date: 12-AUG-2010 21:40
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.440	0.000	6546	78058	90.9	TFT(Surr)
14.911	-0.001	4180	34442	97.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.21 to 17.12)	827807	546979	0.661
8015B 2MP-TMB (4.94 to 15.60)	1664107	553310	0.332
AK101 nC6-nC10 (5.43 to 14.51)	1131784	516543	0.456
NWTPHG Tol-Nap (10.21 to 18.19)	882029	555634	0.630

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.439	0.000	19123	87.0	TFT(Surr)
14.909	0.000	43199	94.8	BB(Surr)

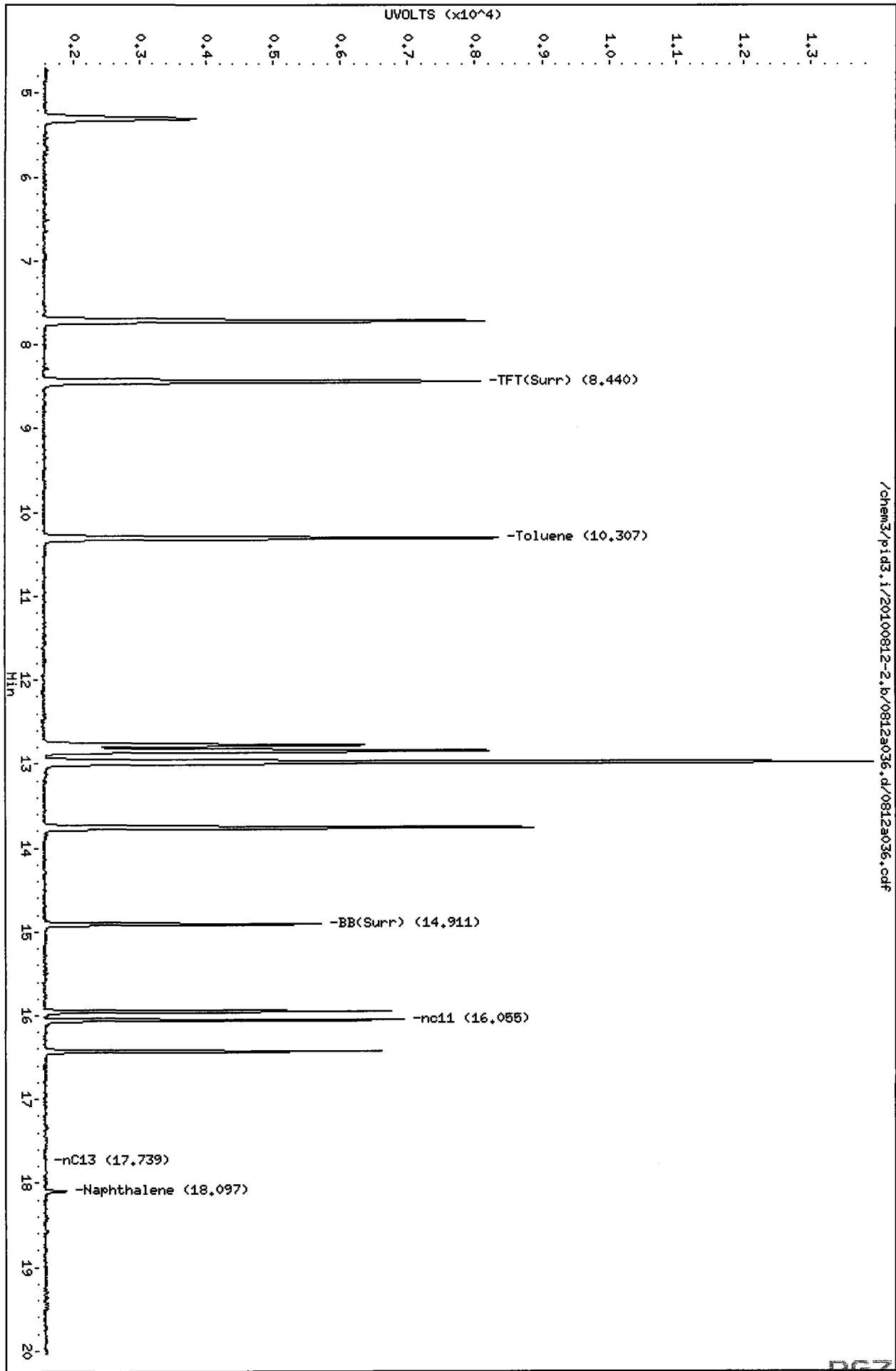
SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.715	0.000	34052	25.76	Benzene
10.306	0.000	32550	24.66	Toluene
12.841	0.000	29729	23.92	Ethylbenzene
12.978	0.000	63521	47.17	M/P-Xylene
13.756	0.000	31504	24.52	O-Xylene
5.305	0.000	9546	26.83	MTBE

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

Data File: /chem3/pid3.i/20100812-2.b/0812a036.d
Date: 12-AUG-2010 21:40
Client ID:
Sample Info: BCAL 4
Column phase: RTX 502-2 FID

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



Data File: /chem3/pid3.i/20100812-1.b/0812a036.d

Date: 12-AUG-2010 21:40

Client ID: BQAL 4

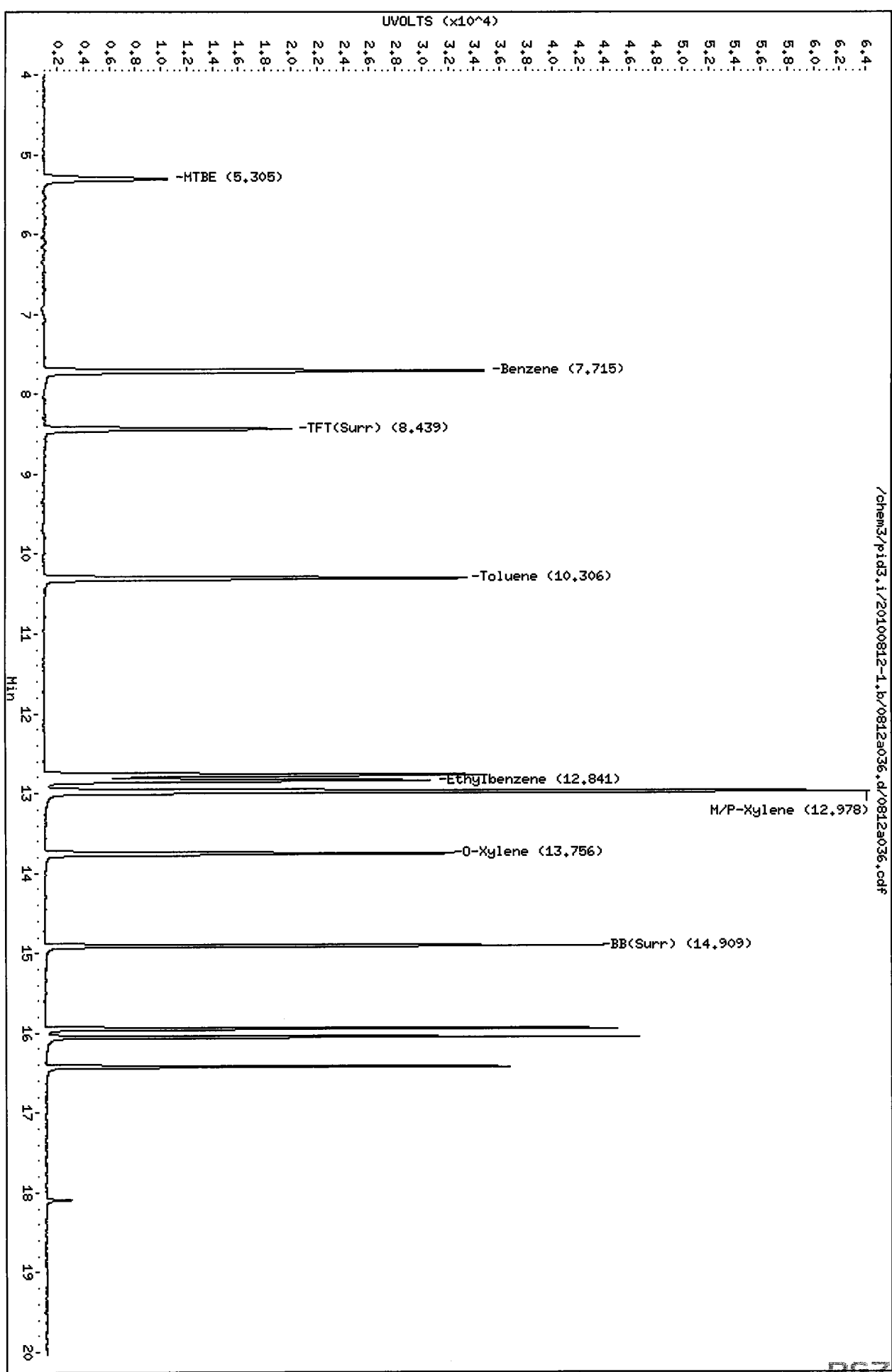
Sample Info: BQAL 4

Column phase: RTX 502-2 PID

Instrument: pid3.i

Operator: MH

Column diameter: 0.18



M
8/16/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid3.i/20100812-2.b/0812a037.d ARI ID: GCAL 4
Data file 2: /chem3/pid3.i/20100812-1.b/0812a037.d Client ID:
Method: /chem3/pid3.i/20100812-1.b/PIDB.m Injection Date: 12-AUG-2010 22:05
Instrument: pid3.i Matrix: WATER
Gas Ical Date: 28-JUL-2010 Dilution Factor: 1.000
BETX Ical Date: 29-JUN-2010

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
8.440	0.032	7087	84470	98.5	TFT(Surr)
14.912	0.025	4427	36074	102.8	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (10.17 to 17.11)	827807	1854166	2.240 M
8015B 2MP-TMB (4.92 to 15.58)	1664107	3564254	2.142 M
AK101 nC6-nC10 (5.41 to 14.53)	1131784	2366898	2.091 M
NWTPHG Tol-Nap (10.17 to 18.18)	882029	1959482	2.222 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
8.438	0.031	20558	93.5	TFT(Surr)
14.909	0.024	45313	99.4	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.716	0.029	7050	5.33	Benzene
10.306	0.036	93408	70.77	Toluene
12.840	0.037	26863	21.62	Ethylbenzene
12.981	0.040	104012	77.24	M/P-Xylene
13.756	0.033	43181	33.61	O-Xylene
5.309	0.020	81618	229.39	MTBE

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

Data File: /chem3/pid3.1/20100812-2.b/0812a037.d

Date: 12-AUG-2010 22:05

Client ID:

Sample Info: GCAL 4

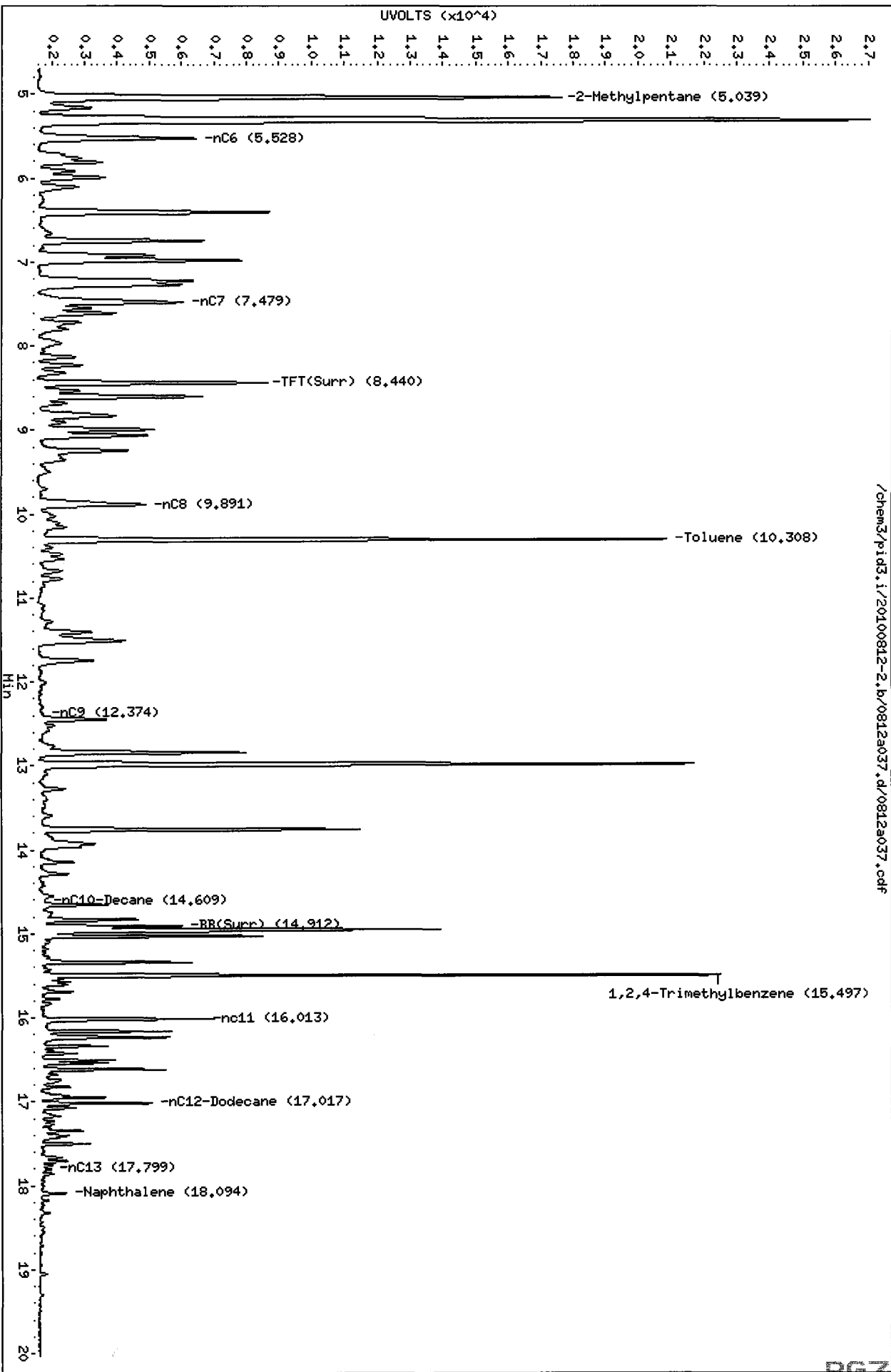
Column phase: RTX 502-2 FID

Instrument: pid3.1

Operator: MH

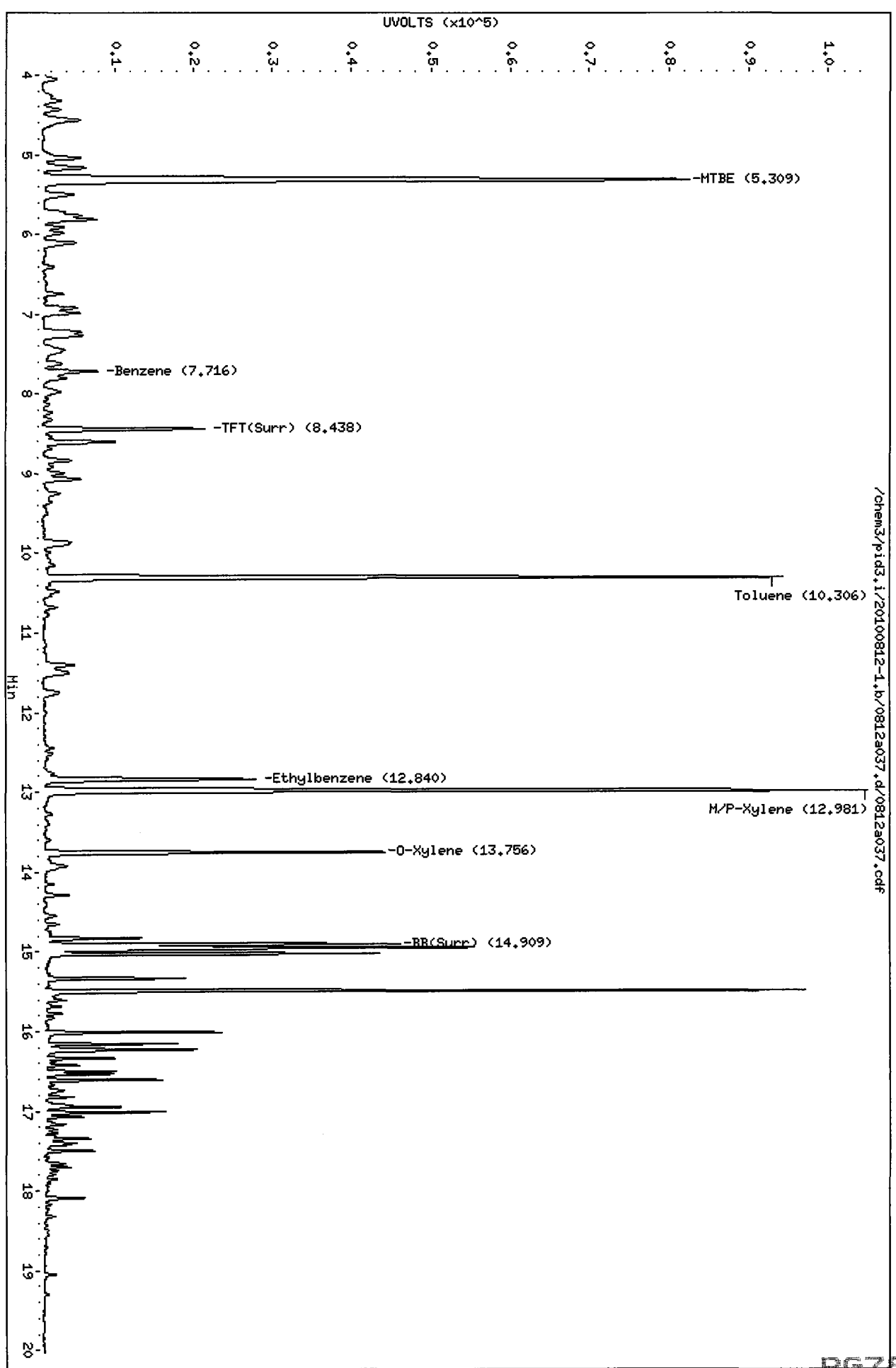
Column diameter: 0.18

/chem3/pid3.1/20100812-2.b/0812a037.d/0812a037.cdf



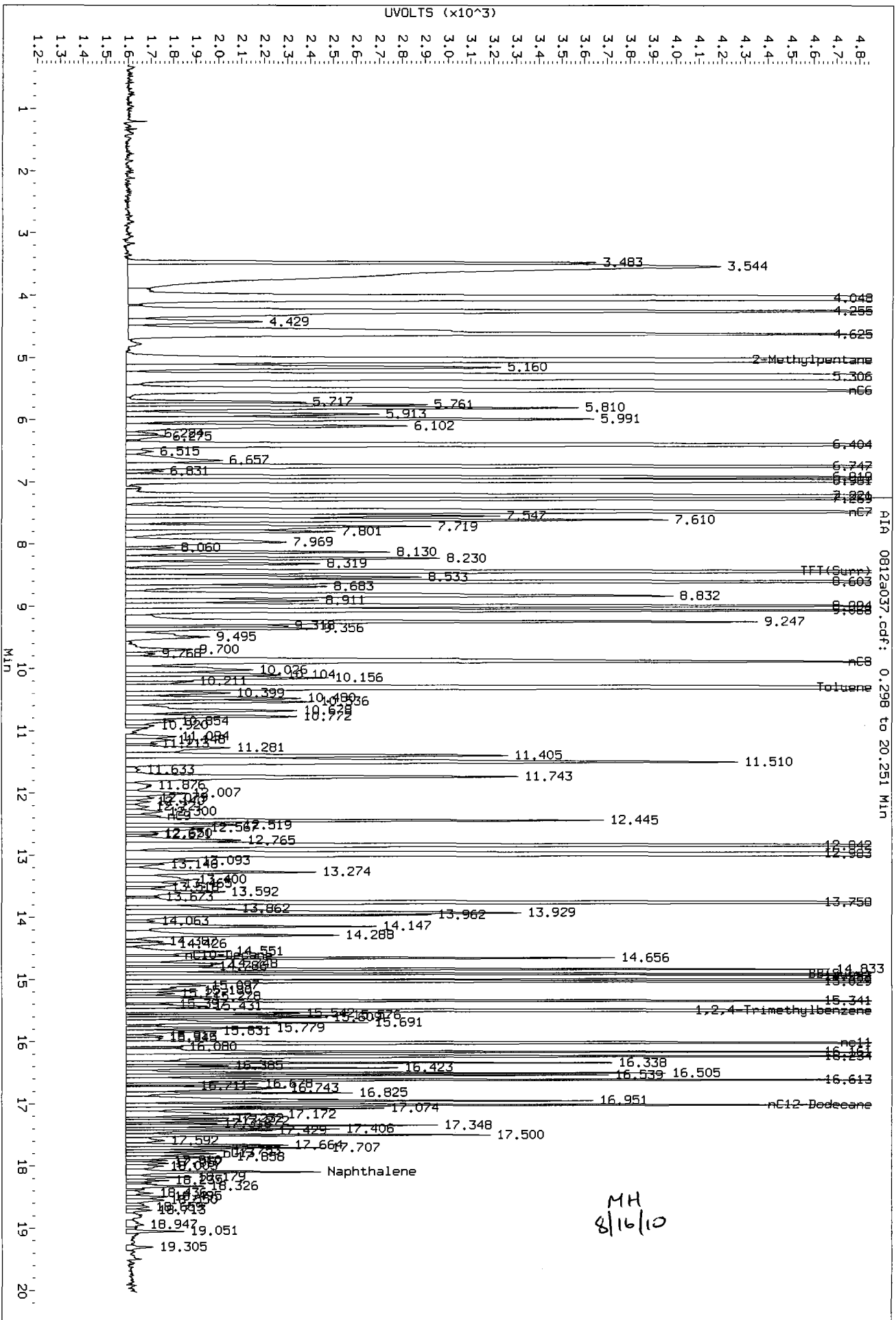
Data File: /chem3/pid3.i/20100812-1.b/0812a037.d
Date: 12-AUG-2010 22:05
Client ID:
Sample Info: GCAL 4
Column phase: RTX 502-2 PID

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

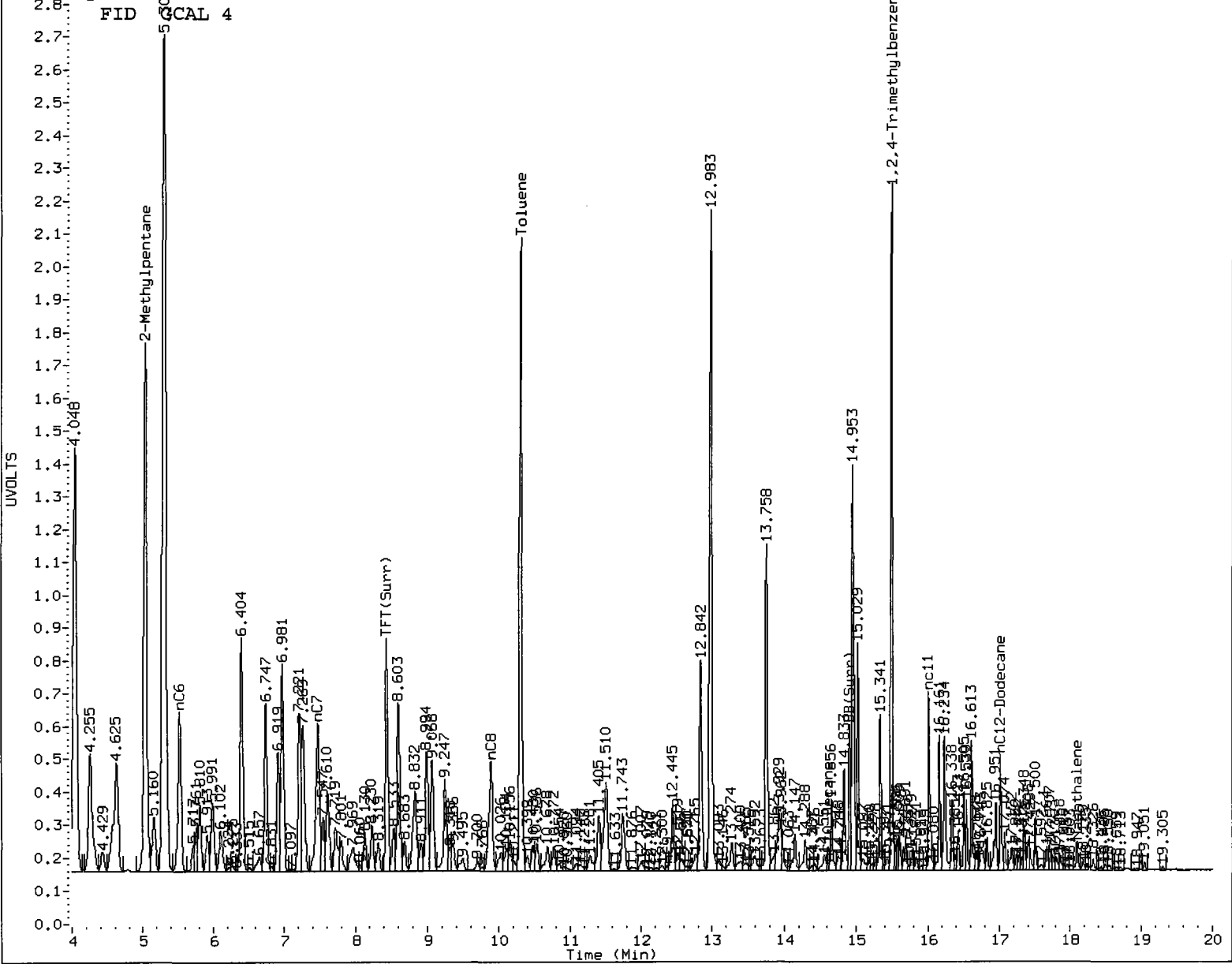


/chem3/pid3.i/20100812-1.b/0812a037.d/0812a037.cdf

Data File: /chem3/pid3.1/20100812-2.b/0812a037.d/0812a037.cdf
 Injection Date: 12-AUG-2010 22:05
 Instrument: pid3.1
 Client Sample ID:



MH
8/16/10



MANUAL INTEGRATION

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

Analyst: MH Date: 8/16/10

**Metals Raw Data
Preparation Bench Sheets and Notes**

ARI Job ID: RG78

SPIKING LOG

Analyst: KM

Final Volume 50

Sample ID RG78 JSPK, MBISPI

Date: 8/10/10

Final Volume (Hg): _____

	Prepcode:	ICP Routine	ICP No GFA	GFA
		<u>SWC</u>		
Spike Solution:				
Standard No.:		<u>2715-1</u>		
Vol Added (mL):		<u>1.0</u>		
Ag	50			2.0
Al	200		200	
As	200	<input checked="" type="checkbox"/>		10
Ba	200		200	
Be	50		50	
Ca	1000		1000	
Cd	50			2.0
Co	50		50	
Cr	50		50	
Cu	50		50	
Fe	200		200	
K	1000		1000	
Mg	1000		1000	
Mn	50		50	
Na	1000		1000	
Ni	50		50	
Pb	200	<input checked="" type="checkbox"/>		10
Se	200			10
Sr	50		50	
Tl	200			10
V	50		50	
Zn	50		50	

	ICP-MS #1	ICP-MS #2	ICP-MS Minerals
Ag	25		
Al			500
As	25		
Ba	25		
Be	25		
Ca			500
Cd	25		
Co	25		
Cr	25		
Cu	25		
Fe			500
K			500
Mg			500
Mn	25		
Mo		25	
Na			500
Ni	25		
Pb	25		
Sb		25	
Se	80		
Tl	25		
U	25		
V	25		
Zn	80		

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std No.
Hg		CVA	1.0		
Hg MBSPK		CVA	1.0		
Sb		ICP	2000		
Sb		GFA	100		
B		ICP	500		
Mo		ICP	500		
Si		ICP	10000		
Sn		ICP	500		
Ti		ICP	2000		

Additional Elements:

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std. No.

RG78 : 01603



Digestion Log

Analyst: KM
Matrix: Soil

Date: 8/10/10
Block Temp: 91°C

ARI Sample ID	Btl #	pH<2	Prep Code: <u>SNC</u>		Prep Code:		Comments
			Initial Wt (g) Vol (mL)	Final Vol (mL)	Initial Wt (g) Vol (mL)	Final Vol (mL)	
RG78 A	6	—	1.035	50.0			
" B	6	—	1.047				
" C	6	—	1.089				
" D	6	—	1.048				
" E	6	—	1.037				
" F	6	—	1.086				
" G	6	—	1.040				
" H	6	—	1.054				
" I	6	—	1.061				
" J	17	—	1.026				
" JDUP	17	—	1.022				
" JSPK	17	—	1.022				
" K	6	—	1.049				
" L	6	—	1.081				
" S	1	—	1.037				
" REFI	D053	—	1.000				
" MBI	—	—	—				
" MBISPK	—	—	—				
RH44 B	1	—	1.067				
" MB	—	—	—				
" MBSPK	—	—	—	50.0			
KM 8/10/10							

Chemical/Reagent ID:

HNO₃: MP1936 HCl: I5548 H₂O₂: I5512 Tube Lot #: 1005282
I5547

**Metals Raw Data
Run Logs, Calibrations, and Raw Data**

ARI Job ID: RG78



IEC Date: 7.6.10

Analysis Date: 8.11.10

Analyst: BW

LR Date: 7.12.10

Page: 1 of 6

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		std 0			2748-2
		↓ 2			↓ -11
		3			2749-1
		↓ 4			↓ -2
		5			↓ -3
		↓ 0			
		ICV			2732-14
		ICB			
		CR1			
		ICSA			
		ICSA B			
2		222222			radial noisy
↓		222222			
	✓	RG80 MB	20C	2	Peak
	✓	↓ D	↓	↓	↓
		CCV1			Sn low
		CCB1			
	✓	RG80 MB	20C	2	CV out
		↓			
		G			Fe high
		H			
		O			noisy
		P			
		↓ Cd	↓	↓	↓



IEC Date:

Analysis Date: 8.11.10

Analyst: RAW

LR Date:

Page: 2 of 6

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
	✓	RG80 C	200C	2	CV out noisy
	↓	↓ Csp	↓	↓	↓
	↓	RH55 MBsp	↓	↓	↓
		CCV2			Ag As Se Sn low
		CCB2			
		Std 2			
		↓ 3			
		↓ 0			
		CCV3			Mo Sn low
		CCB3			
		RG80 MB	200C	2	
		↓ D	↓	↓	
		↓ G	↓	5	
		↓ H	↓	2	
		↓ O	↓	↓	
		↓ P	↓	↓	
	✓	↓ Csp	↓	↓	radial noisy
		↓ C	↓	↓	Zn STL
		↓ Csp	↓	↓	
		RH55 MBsp	↓	↓	
		CCV4		MS-12	Al Fe ³⁺ K Mo Na 330 Sn Tl low
		CCB4			
		Std 0			see previous
		↓ 2			↓



IEC Date: _____ Analysis Date: 8.11.10 Analyst: BW

LR Date: _____ Page: 3 of 6

All corrections made by analyst unless otherwise noted. BW 8.12.10

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		std 3			see previous
		↓ 4			↓
		↓ 5			
		↓ 0			
		ICV			
		ICB			
		ICR1			
		ICSA			
		ICS AB			
		CCV1			
		CCB1			
		RG64 A	TuC		
		↓ B	↓		
		↓ D			
		↓ F			
		↓ Edep			✓
		↓ E			
		↓ Esph	↓		✓ Ca Mn Sr
		RG80 CV	guc	2	
✓		↓ 0	↓	↓	Fe high - rean '15
		↓ MBsph	↓	↓	✓
		CCV2			Sn low
		CCB2			
		RG4 RG64 MB2 WMA			



IEC Date: _____

Analysis Date: 8.12.10

Analyst: BW

LR Date: _____

Page: 4 of 6

All corrections made by analyst unless otherwise noted. BW 8.12.10

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		RG64 MBI	TWC		
		G	↓		
		H	↓		
		J	WAW		
		Mdep	↓		✓
		M	↓		✓
		Mspk	↓		0.08 ml ICP sph Ca Mn SK
		MB2 sph	↓		"
		MB3 sph	TWC		✓
		CCV3			Sn low
		CCB3			
✓		RG87 MB	TWC		CV out
		↓ B	↓		
		RG64 K	WAW		
		↓ L	↓		
		↓ N	↓		
		↓ O	↓		
		↓ P	↓		
		RG78 A	SJC	2	
		↓ B	↓	↓	
✓		RG87 MBSph	TWC		
		CCV4			Ag Sn low Radial noise
		CCB4			
		RG78 MBI	SJC	2	



IEC Date: _____

Analysis Date: ~~8.12.10~~ ¹¹ 8.12.10

Analyst: aw

LR Date: _____

Page: 5 of 6

All corrections made by analyst unless otherwise noted. aw 8.12.10

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		RG78 C	SWC	2	
		↓ D	↓	↓	
		E			
		F			
		Jsp			✓
		J			✓
		Jspk			✓
		Refin			✓
		↓ MBIsph	↓	↓	✓
		CCV5			Ti Zn Ag B Ba Be Co Cr Fe Mo Ni Sn low
		CCB5			
		RG78 G	SWC	2	
		↓ H	↓	↓	
		I			
		K			
		L			
		↓ S	↓	↓	
		RG79 A			
		↓ B	↓	↓	
		C			
	✓	↓ D	↓	↓	noisy
		CCU6			Ag B Ba Co Mo Ni Sn Ti low
		CCB6			Cu high
	✓	RG79 UBI	SWC	2	C/out

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA

Analysis Date: 8/11/10

ICP1	Analyst BWB/12	Peer H812	Comment
Logbook:			
Analyst, Date, Method info	/	/	
Sample ID's	/	/	
Standard/QC solution ID's recorded	/	/	
Prep codes	/	/	
Dilution factors	/	/	
Crossouts/Corrections/Deletions	/	/	
Calibration:			
Blank & Standard intensities	/	/	
Standard deviations	/	/	
Curve fit	/	/	
Calibration Verification:			
ICV/CCV	/	/	see log
ICB/CCB	/	/	
Samples:			
RSD's & SD's	/	/	see log
Internal Standards	/	/	
Carry-over	/	/	
Method QC:			
CRI/CRA	/	/	
ICSA/ICSAB	/	/	
Post Spikes/Serial Dilutions	/	/	
Analytic Spikes	/	/	
Matrix QC:			
SRM/LCS	/	/	
Matrix Spikes	/	/	
Matrix Duplicates	/	/	
Method Blanks	/	/	
Data Distribution:			
Requested elements/isotope identified	/	/	
Correct samples identified for distribution	/	/	
Raw data match distributed data	/	/	
Data filename correct	/	/	
Necessary Analysts Notes and CAF's	/	/	

Nebulizer Parameters: Hg ReAlign

Analyte	Back Pressure	Flow
All	174.0 kPa	0.55 L/min

```
8/11/2010 11:11:44 AM Hg ReAlign... Actual peak offset (nm): 0.000
Drift (nm): -0.000 Slit adjustment: 0
```

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	168844.7
-1.6	15.0	237863.4
-1.2	15.0	338972.0
-0.8	15.0	428027.9
-0.4	15.0	533761.0
0.0	15.0	583788.5
0.4	15.0	630113.5
0.8	15.0	580252.1
1.2	15.0	495866.8
1.6	15.0	415391.6
2.0	15.0	316631.1
0.4	10.0	11516.0
0.4	10.5	31913.9
0.4	11.0	53991.6
0.4	11.5	83428.4
0.4	12.0	127473.1
0.4	12.5	252176.9
0.4	13.0	346438.1
0.4	13.5	452988.1
0.4	14.0	550536.9
0.4	14.5	645334.2
0.4	15.0	617782.4
0.4	15.5	555925.4
0.4	16.0	445780.9
0.4	16.5	270251.3
0.4	17.0	192668.1
0.4	17.5	133526.7
0.4	18.0	92869.2
0.4	18.5	52882.8
0.4	19.0	13845.6
0.4	19.5	5930.3
0.4	20.0	2435.5
-0.4	14.5	565839.2
0.0	14.5	626361.0
0.4	14.5	659275.3
0.8	14.5	601843.1
1.2	14.5	524377.4
0.4	12.5	288069.8
0.4	13.0	362271.5
0.4	13.5	473494.4
0.4	14.0	560299.6
0.4	14.5	647257.4
0.4	15.0	613422.6
0.4	15.5	548393.6
0.4	16.0	449487.7
0.4	16.5	277203.2

```
8/11/2010 11:16:20 AM aligned for analyte Mn 257.610
```

```
X viewing position set to 0.4 mm having Peak intensity 647257.4 for Axial viewing
Y viewing position set to 14.5 mm having Peak intensity 647257.4 for Axial viewing
```

Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	1659.7
-6.5	15.0	2324.1
-6.0	15.0	3353.6
-5.5	15.0	5365.0
-5.0	15.0	9351.3
-4.5	15.0	17398.3

-4.0	15.0	28423.8
-3.5	15.0	55866.9
-3.0	15.0	99401.2
-2.5	15.0	175704.7
-2.0	15.0	269021.0
-1.5	15.0	331791.5
-1.0	15.0	389812.6
-0.5	15.0	399509.9
0.0	15.0	394589.6
0.5	15.0	350751.6
1.0	15.0	254794.7
1.5	15.0	159417.5
2.0	15.0	65504.6
2.5	15.0	58774.8
3.0	15.0	46359.9
3.5	15.0	30707.4
4.0	15.0	17201.6
4.5	15.0	10417.2
5.0	15.0	7981.2
5.5	15.0	6043.1
6.0	15.0	4092.3
6.5	15.0	2844.7
7.0	15.0	2634.2

8/11/2010 11:20:01 AM aligned for analyte Mn 257.610
 X viewing position set to -0.5 mm having Peak intensity 399509.9 for Radial viewing

Analysis Begun

Start Time: 8/11/2010 11:32:48 AM Plasma On Time: 8/11/2010 10:23:38 AM
 Logged In Analyst: metals Technique: ICP Continuous
 Spectrometer Model: Optima 4300 DV, S/N 077N0060101 Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\CRIS1.sif

Batch ID:

Results Data Set: PE100811

Results Library: C:\pe\metals\Results\Results.mdb

Method Loaded

Method Name: ARIIEC6AN.552AS

IEC File: IEC44.iec

Method Description: 12Axial Elements

Method Last Saved: 7/13/2010 9:41:26 AM

MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Al 308.215	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
B 249.677	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Be 313.042	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cd 228.802	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Cr 267.716	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Fe 273.955	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Mg 279.077	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Na 330.237	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ni 231.604	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Si 288.158	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	ScR 361.383	No

Peak	Retention	Integration	Area	Height	Area%	Height%	Integration	Integration
Ti	334.903	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes		
Tl	190.801	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes		
V	292.402	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes		
Zn	206.200	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes		
ScA	357.253	Lin, Calc Int	Peak Area	Axial	n/a	n/a		
ScR	361.383	Lin, Calc Int	Peak Area	Radial	n/a	n/a		

Sequence No.: 1

Sample ID: Calib Blank 1

Autosampler Location: 1

Date Collected: 8/11/2010 11:32:48 AM

Data Type: Original

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	175.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
ScA 357.253	1778440.2	3375.57	0.19%	100.0	%
ScR 361.383	205006.5	1480.84	0.72%	100.0	%
Ag 328.068†	-125.8	8.64	6.87%	[0.00]	mg/L
Al 308.215†	-225.9	21.38	9.46%	[0.00]	mg/L
As 188.979†	13.3	2.81	21.16%	[0.00]	mg/L
B 249.677†	-24.0	5.82	24.27%	[0.00]	mg/L
Ba 233.527†	26.0	4.28	16.43%	[0.00]	mg/L
Be 313.042†	565.1	13.06	2.31%	[0.00]	mg/L
Ca 317.933†	-117.1	13.82	11.80%	[0.00]	mg/L
Cd 228.802†	177.0	2.09	1.18%	[0.00]	mg/L
Co 228.616†	-166.3	3.75	2.26%	[0.00]	mg/L
Cr 267.716†	-42.5	0.92	2.16%	[0.00]	mg/L
Cu 324.752†	1108.0	42.44	3.83%	[0.00]	mg/L
Fe 273.955†	-28.0	0.48	1.70%	[0.00]	mg/L
K 766.490†	3573.2	58.95	1.65%	[0.00]	mg/L
Mg 279.077†	-58.3	7.07	12.12%	[0.00]	mg/L
Mn 257.610†	99.5	4.78	4.80%	[0.00]	mg/L
Mo 202.031†	24.6	2.09	8.49%	[0.00]	mg/L
Na 589.592†	1690.2	18.20	1.08%	[0.00]	mg/L
Na 330.237†	-260.5	6.58	2.52%	[0.00]	mg/L
Ni 231.604†	-65.5	1.88	2.87%	[0.00]	mg/L
Pb 220.353†	290.2	2.69	0.93%	[0.00]	mg/L
Sb 206.836†	166.4	3.26	1.96%	[0.00]	mg/L
Se 196.026†	-76.0	3.95	5.20%	[0.00]	mg/L
Si 288.158†	17.2	6.56	38.03%	[0.00]	mg/L
Sn 189.927†	-3.5	2.82	79.84%	[0.00]	mg/L
Sr 421.552†	444.0	44.00	9.91%	[0.00]	mg/L
Ti 334.903†	197.2	14.20	7.20%	[0.00]	mg/L
Tl 190.801†	-14.1	0.60	4.25%	[0.00]	mg/L
V 292.402†	501.6	42.43	8.46%	[0.00]	mg/L
Zn 206.200†	-16.7	2.00	11.98%	[0.00]	mg/L

Sequence No.: 2
Sample ID: STD2

Autosampler Location: 2
Date Collected: 8/11/2010 11:38:46 AM
Data Type: Original

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	175.0 kPa	0.55 L/min

Mean Data: STD2

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	1767206.6	9270.32	0.52%	99.37	%
ScR 361.383	210007.3	412.97	0.20%	102.4	%
Ba 233.527†	80418.3	113.71	0.14%	[10]	mg/L
Cd 228.802†	560158.5	1678.00	0.30%	[10]	mg/L
Co 228.616†	519822.5	781.14	0.15%	[10]	mg/L
Cr 267.716†	39905.4	126.86	0.32%	[10]	mg/L
Cu 324.752†	2152939.9	1339.80	0.06%	[10]	mg/L
Mn 257.610†	399924.4	226.11	0.06%	[10]	mg/L
V 292.402†	1220291.8	2761.08	0.23%	[10]	mg/L

Sequence No.: 3
Sample ID: STD3

Autosampler Location: 3
Date Collected: 8/11/2010 11:42:33 AM
Data Type: Original

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	175.0 kPa	0.55 L/min

Mean Data: STD3

Analyte	Mean Corrected		RSD	Calib	
	Intensity	Std.Dev.		Conc.	Units
ScA 357.253	1772120.4	3058.74	0.17%	99.64	%
ScR 361.383	208171.2	1842.98	0.89%	101.5	%
Ag 328.068†	199246.4	476.24	0.24%	[1.0]	mg/L
As 188.979†	16641.8	127.89	0.77%	[10]	mg/L
B 249.677†	21418.8	94.94	0.44%	[10]	mg/L
Be 313.042†	1455325.2	9400.57	0.65%	[5.0]	mg/L
Na 589.592†	313465.1	2072.41	0.66%	[50]	mg/L
Ni 231.604†	18294.4	43.46	0.24%	[10]	mg/L
Pb 220.353†	80133.2	271.25	0.34%	[10]	mg/L
Se 196.026†	10839.9	93.93	0.87%	[10]	mg/L
Sr 421.552†	2462182.7	14961.80	0.61%	[5]	mg/L
Tl 190.801†	20946.4	214.18	1.02%	[10]	mg/L
Zn 206.200†	23335.5	47.42	0.20%	[10]	mg/L

Sequence No.: 4
Sample ID: STD4

Autosampler Location: 4
Date Collected: 8/11/2010 11:46:54 AM
Data Type: Original

Nebulizer Parameters: STD4

Analyte	Back Pressure	Flow
All	176.0 kPa	0.55 L/min

Mean Data: STD4

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	1799073.2	11812.82	0.66%	101.2	%
ScR 361.383	210358.1	1316.48	0.63%	102.6	%
Mo 202.031†	114006.4	371.57	0.33%	[10]	mg/L
Sb 206.836†	20632.1	70.99	0.34%	[10]	mg/L
Si 288.158†	12633.3	33.99	0.27%	[10]	mg/L
Sn 189.927†	39017.4	237.35	0.61%	[10]	mg/L
Ti 334.903†	202874.1	2173.34	1.07%	[10]	mg/L

Sequence No.: 5
Sample ID: STD5

Autosampler Location: 5
Date Collected: 8/11/2010 11:51:07 AM
Data Type: Original

Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	176.0 kPa	0.55 L/min

Mean Data: STD5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
ScA 357.253	1762460.2	9837.20	0.56%	99.10 %
ScR 361.383	208247.6	1024.67	0.49%	101.6 %
Al 308.215†	41259.7	161.08	0.39%	[30] mg/L
Ca 317.933†	280812.8	417.34	0.15%	[30] mg/L
Fe 273.955†	114441.2	99.16	0.09%	[100] mg/L
K 766.490†	269081.5	1777.83	0.66%	[100] mg/L
Mg 279.077†	33074.6	174.80	0.53%	[30] mg/L
Na 330.237†	2362.6	5.83	0.25%	[100] mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	199200	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1375	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	1664	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	2142	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	8042	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	291100	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	9360	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	56020	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	51980	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	3991	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	215300	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	1144	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	2691	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	1102	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	39990	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	11400	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	6269	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	23.63	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	1829	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	8013	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	2063	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	1084	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1263	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	3902	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	492400	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	20290	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	2095	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	122000	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	2334	0.00000	1.000000	

=====
Analysis Begun

Start Time: 8/11/2010 12:05:42 PM

Plasma On Time: 8/11/2010 10:23:38 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\CRISSET1.sif

Batch ID:

Results Data Set: PE100811

Results Library: C:\pe\metals\Results\Results.mdb
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Sequence No.: 1

Sample ID: Calib Blank 1

Date Collected: 8/11/2010 12:05:44 PM

Data Type: Original

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	176.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1800097.8	2355.95	0.13%	101.2	%
ScR 361.383	210280.6	466.37	0.22%	102.6	%
Ag 328.068†	-143.0	75.68	52.91%	[0.00]	mg/L
Al 308.215†	-221.1	4.69	2.12%	[0.00]	mg/L
As 188.979†	18.8	1.08	5.76%	[0.00]	mg/L
B 249.677†	-9.9	3.14	31.72%	[0.00]	mg/L
Ba 233.527†	26.6	5.44	20.47%	[0.00]	mg/L
Be 313.042†	547.5	18.63	3.40%	[0.00]	mg/L
Ca 317.933†	-100.3	13.26	13.22%	[0.00]	mg/L
Cd 228.802†	187.3	2.60	1.39%	[0.00]	mg/L
Co 228.616†	-169.6	10.37	6.11%	[0.00]	mg/L
Cr 267.716†	-38.9	1.72	4.43%	[0.00]	mg/L
Cu 324.752†	1391.9	12.73	0.91%	[0.00]	mg/L
Fe 273.955†	-27.1	0.80	2.95%	[0.00]	mg/L
K 766.490†	3519.1	47.07	1.34%	[0.00]	mg/L
Mg 279.077†	-56.8	4.64	8.16%	[0.00]	mg/L
Mn 257.610†	93.0	3.69	3.96%	[0.00]	mg/L
Mo 202.031†	27.0	4.16	15.42%	[0.00]	mg/L
Na 589.592†	1698.5	45.77	2.69%	[0.00]	mg/L
Na 330.237†	-235.7	13.84	5.87%	[0.00]	mg/L
Ni 231.604†	-66.8	0.08	0.11%	[0.00]	mg/L
Pb 220.353†	281.4	2.70	0.96%	[0.00]	mg/L
Sb 206.836†	166.5	4.24	2.54%	[0.00]	mg/L
Se 196.026†	-71.1	5.34	7.50%	[0.00]	mg/L
Si 288.158†	15.7	3.08	19.59%	[0.00]	mg/L
Sn 189.927†	-2.9	2.62	89.16%	[0.00]	mg/L
Sr 421.552†	478.6	37.14	7.76%	[0.00]	mg/L
Ti 334.903†	212.8	10.70	5.03%	[0.00]	mg/L
Tl 190.801†	-17.6	2.24	12.78%	[0.00]	mg/L
V 292.402†	522.3	35.11	6.72%	[0.00]	mg/L
Zn 206.200†	-15.6	2.89	18.51%	[0.00]	mg/L

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Analysis Begun

Start Time: 8/11/2010 12:12:17 PM

Plasma On Time: 8/11/2010 10:23:38 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101 Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0811.sif

Batch ID:

Results Data Set: PE100811

Results Library: C:\pe\metals\Results\Results.mdb

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Sequence No.: 1

Autosampler Location: 7

Sample ID: CV

Date Collected: 8/11/2010 12:12:19 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	176.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1824264.7	102.6 %	1.87			1.82%
ScR 361.383	213270.1	104.0 %	0.26			0.25%
Ag 328.068†	190637.3	0.9568 mg/L	0.02385	0.9568 mg/L	0.02385	2.49%
Al 308.215†	2835.5	2.023 mg/L	0.0017	2.023 mg/L	0.0017	0.08%
As 188.979†	3262.2	1.960 mg/L	0.0272	1.960 mg/L	0.0272	1.39%
B 249.677†	2088.8	0.9737 mg/L	0.00750	0.9737 mg/L	0.00750	0.77%
Ba 233.527†	7942.2	0.9871 mg/L	0.00380	0.9871 mg/L	0.00380	0.39%
Be 313.042†	289423.0	0.9918 mg/L	0.00155	0.9918 mg/L	0.00155	0.16%
Ca 317.933†	19537.1	2.087 mg/L	0.0108	2.087 mg/L	0.0108	0.52%
Cd 228.802†	57006.2	1.014 mg/L	0.0196	1.014 mg/L	0.0196	1.93%
Co 228.616†	50861.9	0.9766 mg/L	0.01901	0.9766 mg/L	0.01901	1.95%
Cr 267.716†	3966.2	0.9939 mg/L	0.00336	0.9939 mg/L	0.00336	0.34%
Cu 324.752†	223650.0	1.039 mg/L	0.0194	1.039 mg/L	0.0194	1.87%
Fe 273.955†	2304.0	2.013 mg/L	0.0084	2.013 mg/L	0.0084	0.42%
K 766.490†	53508.0	19.89 mg/L	0.051	19.89 mg/L	0.051	0.26%
Mg 279.077†	2238.8	2.034 mg/L	0.0063	2.034 mg/L	0.0063	0.31%
Mn 257.610†	39442.5	0.9868 mg/L	0.00360	0.9868 mg/L	0.00360	0.37%
Mo 202.031†	11153.0	0.9781 mg/L	0.01461	0.9781 mg/L	0.01461	1.49%
Na 589.592†	305259.0	48.69 mg/L	0.187	48.69 mg/L	0.187	0.38%
Na 330.237†	1186.0	50.08 mg/L	0.141	50.08 mg/L	0.141	0.28%
Ni 231.604†	1815.0	0.9929 mg/L	0.00227	0.9929 mg/L	0.00227	0.23%
Pb 220.353†	15860.6	1.981 mg/L	0.0338	1.981 mg/L	0.0338	1.70%
Sb 206.836†	4401.1	2.130 mg/L	0.0332	2.130 mg/L	0.0332	1.56%
Se 196.026†	2119.5	1.953 mg/L	0.0137	1.953 mg/L	0.0137	0.70%
Si 288.158†	2714.9	2.152 mg/L	0.0059	2.152 mg/L	0.0059	0.27%
Sn 189.927†	3591.4	0.9210 mg/L	0.01158	0.9210 mg/L	0.01158	1.26%
Sr 421.552†	494750.8	1.005 mg/L	0.0004	1.005 mg/L	0.0004	0.04%
Ti 334.903†	19978.3	0.9835 mg/L	0.00272	0.9835 mg/L	0.00272	0.28%
Tl 190.801†	4086.3	1.937 mg/L	0.0251	1.937 mg/L	0.0251	1.30%
V 292.402†	119091.5	0.9875 mg/L	0.01579	0.9875 mg/L	0.01579	1.60%
Zn 206.200†	2323.5	0.9950 mg/L	0.00503	0.9950 mg/L	0.00503	0.51%

Sequence No.: 2

Sample ID: CB

Autosampler Location: 1

Date Collected: 8/11/2010 12:18:21 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	177.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1801497.2	101.3	%	0.41				0.40%
ScR 361.383	211051.2	102.9	%	0.95				0.92%
Ag 328.068†	28.1	0.00014	mg/L	0.000197	0.00014	mg/L	0.000197	139.66%
Al 308.215†	8.8	0.00641	mg/L	0.006333	0.00641	mg/L	0.006333	98.73%
As 188.979†	0.5	0.00030	mg/L	0.000405	0.00030	mg/L	0.000405	133.17%
B 249.677†	12.4	0.00581	mg/L	0.003682	0.00581	mg/L	0.003682	63.37%
Ba 233.527†	-1.3	-0.00016	mg/L	0.000495	-0.00016	mg/L	0.000495	306.38%
Be 313.042†	4.4	0.00001	mg/L	0.000089	0.00001	mg/L	0.000089	603.96%
Ca 317.933†	-12.8	-0.00136	mg/L	0.000948	-0.00136	mg/L	0.000948	69.52%
Cd 228.802†	-2.9	-0.00005	mg/L	0.000079	-0.00005	mg/L	0.000079	154.09%
Co 228.616†	8.9	0.00017	mg/L	0.000032	0.00017	mg/L	0.000032	18.47%
Cr 267.716†	-5.7	-0.00144	mg/L	0.000260	-0.00144	mg/L	0.000260	18.09%
Cu 324.752†	-37.1	-0.00017	mg/L	0.000131	-0.00017	mg/L	0.000131	76.06%
Fe 273.955†	-1.9	-0.00165	mg/L	0.002090	-0.00165	mg/L	0.002090	126.35%
K 766.490†	122.4	0.04547	mg/L	0.008302	0.04547	mg/L	0.008302	18.26%
Mg 279.077†	-5.0	-0.00450	mg/L	0.002780	-0.00450	mg/L	0.002780	61.72%
Mn 257.610†	3.0	0.00008	mg/L	0.000024	0.00008	mg/L	0.000024	32.10%
Mo 202.031†	2.2	0.00019	mg/L	0.000405	0.00019	mg/L	0.000405	208.71%
Na 589.592†	298.2	0.04757	mg/L	0.005578	0.04757	mg/L	0.005578	11.73%
Na 330.237†	-6.3	-0.2657	mg/L	0.65927	-0.2657	mg/L	0.65927	248.11%
Ni 231.604†	2.9	0.00156	mg/L	0.000930	0.00156	mg/L	0.000930	59.65%
Pb 220.353†	10.6	0.00132	mg/L	0.000828	0.00132	mg/L	0.000828	62.74%
Sb 206.836†	3.2	0.00158	mg/L	0.001883	0.00158	mg/L	0.001883	119.33%
Se 196.026†	-3.2	-0.00294	mg/L	0.002901	-0.00294	mg/L	0.002901	98.65%
Si 288.158†	9.8	0.00777	mg/L	0.006824	0.00777	mg/L	0.006824	87.84%
Sn 189.927†	5.8	0.00148	mg/L	0.000324	0.00148	mg/L	0.000324	21.84%
Sr 421.552†	0.1	0.00000	mg/L	0.000030	0.00000	mg/L	0.000030	>999.9%
Ti 334.903†	-18.8	-0.00093	mg/L	0.001112	-0.00093	mg/L	0.001112	119.67%
Tl 190.801†	4.5	0.00214	mg/L	0.001216	0.00214	mg/L	0.001216	56.79%
V 292.402†	13.5	0.00010	mg/L	0.000147	0.00010	mg/L	0.000147	141.58%
Zn 206.200†	0.3	0.00011	mg/L	0.000753	0.00011	mg/L	0.000753	681.41%

Sequence No.: 3
Sample ID: CRI

Autosampler Location: 21
Date Collected: 8/11/2010 12:24:20 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	177.0 kPa	0.55 L/min

Mean Data: CRI

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1817513.5	102.2	%	0.26				0.26%
ScR 361.383	211186.1	103.0	%	0.26				0.25%
Ag 328.068†	574.5	0.00288	mg/L	0.000077	0.00288	mg/L	0.000077	2.68%
Al 308.215†	87.8	0.06366	mg/L	0.009816	0.06366	mg/L	0.009816	15.42%
As 188.979†	78.2	0.04696	mg/L	0.001597	0.04696	mg/L	0.001597	3.40%
B 249.677†	43.4	0.02026	mg/L	0.000532	0.02026	mg/L	0.000532	2.62%
Ba 233.527†	24.1	0.00299	mg/L	0.000210	0.00299	mg/L	0.000210	7.03%
Be 313.042†	314.5	0.00107	mg/L	0.000056	0.00107	mg/L	0.000056	5.24%
Ca 317.933†	478.4	0.05111	mg/L	0.000604	0.05111	mg/L	0.000604	1.18%
Cd 228.802†	114.0	0.00195	mg/L	0.000071	0.00195	mg/L	0.000071	3.65%
Co 228.616†	165.5	0.00317	mg/L	0.000024	0.00317	mg/L	0.000024	0.77%
Cr 267.716†	17.3	0.00432	mg/L	0.001720	0.00432	mg/L	0.001720	39.77%
Cu 324.752†	346.3	0.00161	mg/L	0.000070	0.00161	mg/L	0.000070	4.36%
Fe 273.955†	57.2	0.04998	mg/L	0.001709	0.04998	mg/L	0.001709	3.42%
K 766.490†	1478.4	0.5494	mg/L	0.01656	0.5494	mg/L	0.01656	3.01%
Mg 279.077†	52.5	0.04765	mg/L	0.007874	0.04765	mg/L	0.007874	16.52%
Mn 257.610†	42.1	0.00106	mg/L	0.000161	0.00106	mg/L	0.000161	15.25%
Mo 202.031†	61.7	0.00541	mg/L	0.000211	0.00541	mg/L	0.000211	3.90%
Na 589.592†	3233.2	0.5157	mg/L	0.00660	0.5157	mg/L	0.00660	1.28%
Na 330.237†	18.7	0.7898	mg/L	0.39917	0.7898	mg/L	0.39917	50.54%
Ni 231.604†	21.7	0.01185	mg/L	0.002699	0.01185	mg/L	0.002699	22.77%
Pb 220.353†	156.7	0.01958	mg/L	0.000795	0.01958	mg/L	0.000795	4.06%
Sb 206.836†	112.9	0.05476	mg/L	0.001552	0.05476	mg/L	0.001552	2.83%
Se 196.026†	55.2	0.05090	mg/L	0.003319	0.05090	mg/L	0.003319	6.52%
Si 288.158†	94.1	0.07450	mg/L	0.001810	0.07450	mg/L	0.001810	2.43%
Sn 189.927†	42.9	0.01101	mg/L	0.000425	0.01101	mg/L	0.000425	3.86%
Sr 421.552†	471.2	0.00096	mg/L	0.000038	0.00096	mg/L	0.000038	4.02%
Ti 334.903†	93.7	0.00461	mg/L	0.000644	0.00461	mg/L	0.000644	13.97%
Tl 190.801†	108.4	0.05170	mg/L	0.001973	0.05170	mg/L	0.001973	3.82%
V 292.402†	338.6	0.00283	mg/L	0.000251	0.00283	mg/L	0.000251	8.88%
Zn 206.200†	23.5	0.01008	mg/L	0.000204	0.01008	mg/L	0.000204	2.03%

Sequence No.: 4
Sample ID: ICSA

Autosampler Location: 22
Date Collected: 8/11/2010 12:30:20 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	177.0 kPa	0.55 L/min

Mean Data: ICSA

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	1753111.4	98.58	%	0.674			0.68%
ScR 361.383	212701.6	103.8	%	0.56			0.54%
Ag 328.068†	-1324.8	0.00030	mg/L	0.000126	0.00030	mg/L	0.000126 42.04%
Al 308.215†	276281.3	200.9	mg/L	0.31	200.9	mg/L	0.31 0.15%
As 188.979†	-8.8	-0.00528	mg/L	0.003072	-0.00528	mg/L	0.003072 58.16%
B 249.677†	38.6	0.01801	mg/L	0.001030	0.01801	mg/L	0.001030 5.72%
Ba 233.527†	87.7	0.00154	mg/L	0.000739	0.00154	mg/L	0.000739 47.95%
Be 313.042†	-14.9	-0.00011	mg/L	0.000029	-0.00011	mg/L	0.000029 25.52%
Ca 317.933†	922968.9	98.60	mg/L	0.075	98.60	mg/L	0.075 0.08%
Cd 228.802†	46.5	0.00084	mg/L	0.000090	0.00084	mg/L	0.000090 10.68%
Co 228.616†	58.8	0.00112	mg/L	0.000058	0.00112	mg/L	0.000058 5.17%
Cr 267.716†	7.1	0.00129	mg/L	0.000658	0.00129	mg/L	0.000658 50.80%
Cu 324.752†	-3578.6	0.00107	mg/L	0.000126	0.00107	mg/L	0.000126 11.80%
Fe 273.955†	227383.3	198.7	mg/L	0.47	198.7	mg/L	0.47 0.23%
K 766.490†	-45.1	-0.01676	mg/L	0.021730	-0.01676	mg/L	0.021730 129.66%
Mg 279.077†	110110.5	99.76	mg/L	0.202	99.76	mg/L	0.202 0.20%
Mn 257.610†	35.7	-0.00046	mg/L	0.000043	-0.00046	mg/L	0.000043 9.41%
Mo 202.031†	33.6	0.00295	mg/L	0.000652	0.00295	mg/L	0.000652 22.15%
Na 589.592†	54.8	0.00874	mg/L	0.002251	0.00874	mg/L	0.002251 25.74%
Na 330.237†	17.4	0.08513	mg/L	0.543318	0.08513	mg/L	0.543318 638.25%
Ni 231.604†	-2.1	-0.00108	mg/L	0.003161	-0.00108	mg/L	0.003161 293.61%
Pb 220.353†	-301.6	0.00590	mg/L	0.000622	0.00590	mg/L	0.000622 10.54%
Sb 206.836†	149.1	-0.00640	mg/L	0.003167	-0.00640	mg/L	0.003167 49.49%
Se 196.026†	-93.4	-0.01184	mg/L	0.004106	-0.01184	mg/L	0.004106 34.69%
Si 288.158†	-21.9	-0.00399	mg/L	0.004510	-0.00399	mg/L	0.004510 112.91%
Sn 189.927†	-63.9	-0.00828	mg/L	0.000970	-0.00828	mg/L	0.000970 11.72%
Sr 421.552†	1874.6	0.00381	mg/L Cont.	0.000120	0.00381	mg/L	0.000120 3.15%
Ti 334.903†	64.8	-0.00066	mg/L	0.000767	-0.00066	mg/L	0.000767 116.90%
Tl 190.801†	-50.2	-0.02411	mg/L	0.003175	-0.02411	mg/L	0.003175 13.17%
V 292.402†	2941.2	0.00078	mg/L	0.000406	0.00078	mg/L	0.000406 51.94%
Zn 206.200†	-11.2	0.00012	mg/L	0.000680	0.00012	mg/L	0.000680 552.82%

Sequence No.: 5
Sample ID: ICSAB

Autosampler Location: 23
Date Collected: 8/11/2010 12:36:37 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	176.0 kPa	0.55 L/min

Mean Data: ICSAB

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD	
	Intensity	Conc.			Conc.	Units		Std.Dev.
ScA 357.253	1763591.5	99.17	%	0.484			0.49%	
ScR 361.383	215711.4	105.2	%	0.76			0.73%	
Ag 328.068†	201557.2	1.019	mg/L	0.0026	1.019	mg/L	0.0026	0.26%
Al 308.215†	274110.4	199.3	mg/L	0.67	199.3	mg/L	0.67	0.34%
As 188.979†	1628.2	0.9785	mg/L	0.00839	0.9785	mg/L	0.00839	0.86%
B 249.677†	45.4	0.01817	mg/L	0.000926	0.01817	mg/L	0.000926	5.10%
Ba 233.527†	7815.6	0.9621	mg/L	0.00428	0.9621	mg/L	0.00428	0.44%
Be 313.042†	298670.3	1.024	mg/L	0.0032	1.024	mg/L	0.0032	0.31%
Ca 317.933†	926001.8	98.93	mg/L	0.278	98.93	mg/L	0.278	0.28%
Cd 228.802†	56649.2	1.010	mg/L	0.0019	1.010	mg/L	0.0019	0.19%
Co 228.616†	48477.6	0.9322	mg/L	0.00092	0.9322	mg/L	0.00092	0.10%
Cr 267.716†	3883.0	0.9727	mg/L	0.00373	0.9727	mg/L	0.00373	0.38%
Cu 324.752†	225051.1	1.063	mg/L	0.0022	1.063	mg/L	0.0022	0.20%
Fe 273.955†	226186.8	197.6	mg/L	0.39	197.6	mg/L	0.39	0.20%
K 766.490†	-95.1	-0.03533	mg/L	0.020007	-0.03533	mg/L	0.020007	56.63%
Mg 279.077†	113259.5	102.6	mg/L	0.39	102.6	mg/L	0.39	0.38%
Mn 257.610†	39234.9	0.9800	mg/L	0.00289	0.9800	mg/L	0.00289	0.29%
Mo 202.031†	34.1	0.00284	mg/L	0.000247	0.00284	mg/L	0.000247	8.69%
Na 589.592†	99.5	0.01588	mg/L	0.005573	0.01588	mg/L	0.005573	35.11%
Na 330.237†	34.8	0.5288	mg/L	0.27506	0.5288	mg/L	0.27506	52.02%
Ni 231.604†	1734.4	0.9487	mg/L	0.00226	0.9487	mg/L	0.00226	0.24%
Pb 220.353†	7193.7	0.9418	mg/L	0.00674	0.9418	mg/L	0.00674	0.72%
Sb 206.836†	2392.0	1.069	mg/L	0.0057	1.069	mg/L	0.0057	0.53%
Se 196.026†	981.2	0.9764	mg/L	0.01172	0.9764	mg/L	0.01172	1.20%
Si 288.158†	-20.9	-0.00189	mg/L	0.008300	-0.00189	mg/L	0.008300	439.44%
Sn 189.927†	-68.4	-0.00933	mg/L	0.002674	-0.00933	mg/L	0.002674	28.67%
Sr 421.552†	2078.0	0.00422	mg/L	0.000046	0.00422	mg/L	0.000046	1.09%
Ti 334.903†	62.8	-0.00099	mg/L	0.000286	-0.00099	mg/L	0.000286	28.72%
Tl 190.801†	1959.4	0.9219	mg/L	0.00783	0.9219	mg/L	0.00783	0.85%
V 292.402†	124120.4	1.000	mg/L	0.0055	1.000	mg/L	0.0055	0.55%
Zn 206.200†	2150.0	0.9257	mg/L	0.00629	0.9257	mg/L	0.00629	0.68%

Sequence No.: 6
 Sample ID: CV

Autosampler Location: 7
 Date Collected: 8/11/2010 12:43:37 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte Back Pressure Flow
 All 177.0 kPa 0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1818154.0	102.2	%	0.24			0.23%
ScR 361.383	196157.7	95.68	%	14.414			15.06%
Ag 328.068†	188752.7	0.9473	mg/L	0.00823	0.9473 mg/L	0.00823	0.87%
Al 308.215†	3105.9	2.220	mg/L	0.3393	2.220 mg/L	0.3393	15.28%
As 188.979†	3247.8	1.951	mg/L	0.0067	1.951 mg/L	0.0067	0.34%
B 249.677†	2274.5	1.060	mg/L	0.1746	1.060 mg/L	0.1746	16.47%
Ba 233.527†	8659.1	1.076	mg/L	0.1747	1.076 mg/L	0.1747	16.24%
Be 313.042†	318168.7	1.091	mg/L	0.1883	1.091 mg/L	0.1883	17.27%
Ca 317.933†	21256.3	2.271	mg/L	0.3671	2.271 mg/L	0.3671	16.16%
Cd 228.802†	56540.5	1.006	mg/L	0.0101	1.006 mg/L	0.0101	1.01%
Co 228.616†	50404.1	0.9676	mg/L	0.00898	0.9676 mg/L	0.00898	0.93%
Cr 267.716†	4337.3	1.087	mg/L	0.1743	1.087 mg/L	0.1743	16.04%
Cu 324.752†	222946.4	1.036	mg/L	0.0094	1.036 mg/L	0.0094	0.91%
Fe 273.955†	2519.5	2.201	mg/L	0.3568	2.201 mg/L	0.3568	16.21%
K 766.490†	59972.8	22.29	mg/L	4.241	22.29 mg/L	4.241	19.03%
Mg 279.077†	2424.3	2.202	mg/L	0.3447	2.202 mg/L	0.3447	15.65%
Mn 257.610†	43617.8	1.091	mg/L	0.1911	1.091 mg/L	0.1911	17.51%
Mo 202.031†	11125.5	0.9757	mg/L	0.00586	0.9757 mg/L	0.00586	0.60%
Na 589.592†	337462.2	53.83	mg/L	9.432	53.83 mg/L	9.432	17.52%
Na 330.237†	1282.9	54.17	mg/L	7.372	54.17 mg/L	7.372	13.61%
Ni 231.604†	1971.2	1.078	mg/L	0.1671	1.078 mg/L	0.1671	15.50%
Pb 220.353†	15733.6	1.965	mg/L	0.0202	1.965 mg/L	0.0202	1.03%
Sb 206.836†	4365.3	2.111	mg/L	0.0071	2.111 mg/L	0.0071	0.34%
Se 196.026†	2109.0	1.943	mg/L	0.0056	1.943 mg/L	0.0056	0.29%
Si 288.158†	2977.4	2.360	mg/L	0.3885	2.360 mg/L	0.3885	16.47%
Sn 189.927†	3566.8	0.9148	mg/L	0.00499	0.9148 mg/L	0.00499	0.55%
Sr 421.552†	548011.9	1.113	mg/L	0.1966	1.113 mg/L	0.1966	17.67%
Ti 334.903†	21999.2	1.083	mg/L	0.1907	1.083 mg/L	0.1907	17.61%
Tl 190.801†	4069.6	1.929	mg/L	0.0102	1.929 mg/L	0.0102	0.53%
V 292.402†	118475.6	0.9829	mg/L	0.00656	0.9829 mg/L	0.00656	0.67%
Zn 206.200†	2517.1	1.078	mg/L	0.1727	1.078 mg/L	0.1727	16.02%

Sequence No.:]
 Sample ID: CB
 Dilution: 1X

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8/11

Autosampler Location: 1
 Date Collected: 8/11/2010 12:49:38 PM
 Data Type: Original

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 177.0 kPa 0.55 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1823615.7	102.5	%	0.67				0.65%
ScR 361.383	210236.1	102.6	%	1.30				1.27%
Ag 328.068†	36.2	0.00018	mg/L	0.000136	0.00018	mg/L	0.000136	74.70%
Al 308.215†	10.9	0.00789	mg/L	0.014034	0.00789	mg/L	0.014034	177.93%
As 188.979†	-3.2	-0.00194	mg/L	0.002126	-0.00194	mg/L	0.002126	109.45%
B 249.677†	9.6	0.00450	mg/L	0.001589	0.00450	mg/L	0.001589	35.35%
Ba 233.527†	-1.2	-0.00015	mg/L	0.000263	-0.00015	mg/L	0.000263	172.29%
Be 313.042†	12.8	0.00004	mg/L	0.000052	0.00004	mg/L	0.000052	118.37%
Ca 317.933†	7.7	0.00082	mg/L	0.002021	0.00082	mg/L	0.002021	245.40%
Cd 228.802†	-0.7	-0.00001	mg/L	0.000043	-0.00001	mg/L	0.000043	524.50%
Co 228.616†	7.8	0.00015	mg/L	0.000091	0.00015	mg/L	0.000091	60.69%
Cr 267.716†	3.3	0.00082	mg/L	0.000712	0.00082	mg/L	0.000712	86.85%
Cu 324.752†	175.9	0.00082	mg/L	0.000301	0.00082	mg/L	0.000301	36.82%
Fe 273.955†	1.8	0.00156	mg/L	0.003074	0.00156	mg/L	0.003074	196.62%
K 766.490†	75.0	0.02788	mg/L	0.018082	0.02788	mg/L	0.018082	64.86%
Mg 279.077†	1.0	0.00091	mg/L	0.001774	0.00091	mg/L	0.001774	195.94%
Mn 257.610†	-8.1	-0.00020	mg/L	0.000093	-0.00020	mg/L	0.000093	46.04%
Mo 202.031†	2.6	0.00023	mg/L	0.000111	0.00023	mg/L	0.000111	48.74%
Na 589.592†	180.6	0.02881	mg/L	0.004900	0.02881	mg/L	0.004900	17.01%
Na 330.237†	1.4	0.05835	mg/L	0.390990	0.05835	mg/L	0.390990	670.08%
Ni 231.604†	0.6	0.00030	mg/L	0.002721	0.00030	mg/L	0.002721	894.87%
Pb 220.353†	-0.1	-0.00001	mg/L	0.000511	-0.00001	mg/L	0.000511	>999.9%
Sb 206.836†	-0.6	-0.00029	mg/L	0.000948	-0.00029	mg/L	0.000948	323.12%
Se 196.026†	3.2	0.00299	mg/L	0.002245	0.00299	mg/L	0.002245	75.06%
Si 288.158†	8.0	0.00636	mg/L	0.002946	0.00636	mg/L	0.002946	46.31%
Sn 189.927†	4.5	0.00116	mg/L	0.000128	0.00116	mg/L	0.000128	11.04%
Sr 421.552†	2.3	0.00000	mg/L	0.000076	0.00000	mg/L	0.000076	>999.9%
Ti 334.903†	-10.1	-0.00050	mg/L	0.000495	-0.00050	mg/L	0.000495	99.37%
Tl 190.801†	9.8	0.00469	mg/L	0.001732	0.00469	mg/L	0.001732	36.95%
V 292.402†	-2.2	-0.00001	mg/L	0.000104	-0.00001	mg/L	0.000104	925.51%
Zn 206.200†	-0.6	-0.00026	mg/L	0.000716	-0.00026	mg/L	0.000716	270.40%

Sequence No.: 8

Autosampler Location: 24

Sample ID: RG80 MB SWC

Date Collected: 8/11/2010 12:55:37 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 MB SWC

Analyte	Back Pressure	Flow
All	177.0 kPa	0.55 L/min

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Mean Data: RG80 MB SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1841821.7	103.6	%	0.55				0.53%
ScR 361.383	214163.8	104.5	%	0.50				0.48%
Ag 328.068†	18.2	0.00009	mg/L	0.000304	0.00018	mg/L	0.000607	332.35%
Al 308.215†	15.5	0.01130	mg/L	0.008287	0.02260	mg/L	0.016573	73.32%
As 188.979†	-3.8	-0.00227	mg/L	0.000297	-0.00454	mg/L	0.000593	13.06%
B 249.677†	-0.8	-0.00039	mg/L	0.000445	-0.00078	mg/L	0.000890	114.00%
Ba 233.527†	4.9	0.00061	mg/L	0.000462	0.00123	mg/L	0.000924	75.29%
Be 313.042†	-6.2	-0.00002	mg/L	0.000054	-0.00004	mg/L	0.000108	251.84%
Ca 317.933†	106.1	0.01134	mg/L	0.001659	0.02268	mg/L	0.003319	14.63%
Cd 228.802†	-4.5	-0.00008	mg/L	0.000089	-0.00015	mg/L	0.000178	117.66%
Co 228.616†	4.2	0.00008	mg/L	0.000144	0.00016	mg/L	0.000289	175.59%
Cr 267.716†	0.8	0.00021	mg/L	0.000431	0.00042	mg/L	0.000862	205.12%
Cu 324.752†	-41.7	-0.00019	mg/L	0.000166	-0.00039	mg/L	0.000333	86.06%
Fe 273.955†	2.2	0.00188	mg/L	0.001183	0.00377	mg/L	0.002365	62.83%
K 766.490†	88.1	0.03273	mg/L	0.010568	0.06546	mg/L	0.021135	32.29%
Mg 279.077†	-2.5	-0.00231	mg/L	0.007031	-0.00462	mg/L	0.014062	304.42%
Mn 257.610†	-10.1	-0.00025	mg/L	0.000181	-0.00050	mg/L	0.000362	71.66%
Mo 202.031†	-0.4	-0.00003	mg/L	0.000318	-0.00007	mg/L	0.000636	918.22%
Na 589.592†	44.6	0.00711	mg/L	0.004540	0.01421	mg/L	0.009081	63.88%
Na 330.237†	6.5	0.2745	mg/L	0.51489	0.5491	mg/L	1.02977	187.55%
Ni 231.604†	2.6	0.00143	mg/L	0.001428	0.00285	mg/L	0.002856	100.16%
Pb 220.353†	-0.6	-0.00008	mg/L	0.000551	-0.00016	mg/L	0.001101	709.10%
Sb 206.836†	-3.4	-0.00163	mg/L	0.001513	-0.00327	mg/L	0.003026	92.54%
Se 196.026†	4.8	0.00441	mg/L	0.003899	0.00882	mg/L	0.007799	88.39%
Si 288.158†	6.6	0.00521	mg/L	0.003864	0.01042	mg/L	0.007727	74.16%
Sn 189.927†	6.5	0.00167	mg/L	0.000373	0.00335	mg/L	0.000746	22.29%
Sr 421.552†	-16.2	-0.00003	mg/L	0.000039	-0.00007	mg/L	0.000077	117.58%
Ti 334.903†	-10.7	-0.00053	mg/L	0.000871	-0.00106	mg/L	0.001743	164.35%
Tl 190.801†	4.9	0.00234	mg/L	0.001660	0.00468	mg/L	0.003320	71.01%
V 292.402†	5.2	0.00004	mg/L	0.000313	0.00009	mg/L	0.000626	717.50%
Zn 206.200†	2.4	0.00102	mg/L	0.001473	0.00203	mg/L	0.002947	145.10%

Sequence No.: 9
Sample ID: RG80 D SWC

Autosampler Location: 25
Date Collected: 8/11/2010 1:01:37 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 D SWC

Analyte Back Pressure Flow
All 177.0 kPa 0.55 L/min

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Mean Data: RG80 D SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1816859.7	102.2	%	1.16				1.14%
ScR 361.383	216576.9	105.6	%	0.66				0.62%
Ag 328.068†	-726.8	0.00169	mg/L	0.000187	0.00338	mg/L	0.000375	11.07%
Al 308.215†	33943.6	24.67	mg/L	0.022	49.35	mg/L	0.043	0.09%
As 188.979†	14.4	0.01136	mg/L	0.001063	0.02272	mg/L	0.002126	9.36%
B 249.677†	99.4	0.04630	mg/L	0.003553	0.09259	mg/L	0.007106	7.67%
Ba 233.527†	2223.3	0.2695	mg/L	0.00129	0.5391	mg/L	0.00259	0.48%
Be 313.042†	164.3	0.00014	mg/L	0.000049	0.00027	mg/L	0.000099	36.01%
Ca 317.933†	220591.2	23.57	mg/L	0.075	47.13	mg/L	0.150	0.32%
Cd 228.802†	1059.7	0.01894	mg/L	0.000258	0.03788	mg/L	0.000516	1.36%
Co 228.616†	1214.8	0.02070	mg/L	0.000435	0.04140	mg/L	0.000870	2.10%
Cr 267.716†	990.0	0.2502	mg/L	0.00055	0.5005	mg/L	0.00110	0.22%
Cu 324.752†	229900.2	1.080	mg/L	0.0181	2.161	mg/L	0.0362	1.68%
Fe 273.955†	166679.0	145.6	mg/L	0.19	291.3	mg/L	0.37	0.13%
K 766.490†	3504.0	1.302	mg/L	0.0250	2.604	mg/L	0.0499	1.92%
Mg 279.077†	9182.1	8.243	mg/L	0.0366	16.49	mg/L	0.073	0.44%
Mn 257.610†	39165.2	0.9793	mg/L	0.00210	1.959	mg/L	0.0042	0.21%
Mo 202.031†	288.9	0.02470	mg/L	0.000100	0.04941	mg/L	0.000200	0.41%
Na 589.592†	8587.2	1.370	mg/L	0.0072	2.739	mg/L	0.0145	0.53%
Na 330.237†	94.8	1.114	mg/L	0.1309	2.228	mg/L	0.2617	11.75%
Ni 231.604†	240.3	0.1314	mg/L	0.00207	0.2628	mg/L	0.00415	1.58%
Pb 220.353†	4633.2	0.5752	mg/L	0.00608	1.150	mg/L	0.0122	1.06%
Sb 206.836†	76.8	0.00729	mg/L	0.001538	0.01458	mg/L	0.003076	21.10%
Se 196.026†	-41.0	-0.00923	mg/L	0.003920	-0.01846	mg/L	0.007840	42.46%
Si 288.158†	4964.3	3.931	mg/L	0.0309	7.862	mg/L	0.0619	0.79%
Sn 189.927†	100.2	0.02777	mg/L	0.001527	0.05554	mg/L	0.003053	5.50%
Sr 421.552†	56079.4	0.1139	mg/L	0.00014	0.2278	mg/L	0.00027	0.12%
Ti 334.903†	30302.4	1.493	mg/L	0.0031	2.985	mg/L	0.0063	0.21%
Tl 190.801†	-19.3	-0.01397	mg/L	0.001902	-0.02794	mg/L	0.003803	13.61%
V 292.402†	19215.6	0.1410	mg/L	0.00318	0.2820	mg/L	0.00635	2.25%
Zn 206.200†	22514.0	9.649	mg/L	0.0873	19.30	mg/L	0.175	0.90%

User canceled analysis.

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Analysis Begun

Start Time: 8/11/2010 1:08:00 PM

Plasma On Time: 8/11/2010 10:23:38 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0811.sif

Batch ID:

Results Data Set: PE100811

Results Library: C:\pe\metals\Results\Results.mdb

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Sequence No.: 6

Autosampler Location: 7

Sample ID: CV

Date Collected: 8/11/2010 1:08:02 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	177.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1848163.9	103.9	%	0.41			0.40%
ScR 361.383	216295.8	105.5	%	1.83			1.74%
Ag 328.068†	186304.6	0.9350	mg/L	0.00626	0.9350 mg/L	0.00626	0.67%
Al 308.215†	2832.6	2.022	mg/L	0.0638	2.022 mg/L	0.0638	3.16%
As 188.979†	3176.8	1.909	mg/L	0.0152	1.909 mg/L	0.0152	0.80%
B 249.677†	2059.5	0.9600	mg/L	0.01187	0.9600 mg/L	0.01187	1.24%
Ba 233.527†	7807.1	0.9703	mg/L	0.01926	0.9703 mg/L	0.01926	1.99%
Be 313.042†	288625.5	0.9892	mg/L	0.00853	0.9892 mg/L	0.00853	0.86%
Ca 317.933†	19301.2	2.062	mg/L	0.0336	2.062 mg/L	0.0336	1.63%
Cd 228.802†	55454.6	0.9867	mg/L	0.00666	0.9867 mg/L	0.00666	0.67%
Co 228.616†	49953.8	0.9591	mg/L	0.00823	0.9591 mg/L	0.00823	0.86%
Cr 267.716†	3939.9	0.9873	mg/L	0.01677	0.9873 mg/L	0.01677	1.70%
Cu 324.752†	219739.5	1.021	mg/L	0.0091	1.021 mg/L	0.0091	0.90%
Fe 273.955†	2299.8	2.009	mg/L	0.0464	2.009 mg/L	0.0464	2.31%
K 766.490†	52768.9	19.61	mg/L	0.177	19.61 mg/L	0.177	0.90%
Mg 279.077†	2211.6	2.009	mg/L	0.0317	2.009 mg/L	0.0317	1.58%
Mn 257.610†	38822.5	0.9713	mg/L	0.01743	0.9713 mg/L	0.01743	1.79%
Mo 202.031†	10909.6	0.9568	mg/L	0.00807	0.9568 mg/L	0.00807	0.84%
Na 589.592†	298379.9	47.59	mg/L	0.365	47.59 mg/L	0.365	0.77%
Na 330.237†	1163.8	49.14	mg/L	0.459	49.14 mg/L	0.459	0.93%
Ni 231.604†	1795.8	0.9824	mg/L	0.01737	0.9824 mg/L	0.01737	1.77%
Pb 220.353†	15454.6	1.930	mg/L	0.0156	1.930 mg/L	0.0156	0.81%
Sb 206.836†	4287.9	2.074	mg/L	0.0129	2.074 mg/L	0.0129	0.62%
Se 196.026†	2059.0	1.898	mg/L	0.0151	1.898 mg/L	0.0151	0.80%
Si 288.158†	2692.9	2.134	mg/L	0.0384	2.134 mg/L	0.0384	1.80%
Sn 189.927†	3504.2	0.8986	mg/L	0.00664	0.8986 mg/L	0.00664	0.74%
Sr 421.552†	489122.7	0.9933	mg/L	0.00973	0.9933 mg/L	0.00973	0.98%
Ti 334.903†	19737.0	0.9716	mg/L	0.00890	0.9716 mg/L	0.00890	0.92%
Tl 190.801†	4012.4	1.902	mg/L	0.0130	1.902 mg/L	0.0130	0.68%
V 292.402†	115872.7	0.9609	mg/L	0.00905	0.9609 mg/L	0.00905	0.94%
Zn 206.200†	2315.6	0.9916	mg/L	0.01919	0.9916 mg/L	0.01919	1.94%

Sequence No.: 7
 Sample ID: CB |

Autosampler Location: 1
 Date Collected: 8/11/2010 1:14:03 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 178.0 kPa 0.55 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1846517.1	103.8	%	0.24				0.24%
ScR 361.383	214502.4	104.6	%	0.43				0.41%
Ag 328.068†	31.1	0.00016	mg/L	0.000115	0.00016	mg/L	0.000115	73.97%
Al 308.215†	23.6	0.01716	mg/L	0.011300	0.01716	mg/L	0.011300	65.86%
As 188.979†	-3.9	-0.00233	mg/L	0.002049	-0.00233	mg/L	0.002049	87.89%
B 249.677†	11.1	0.00519	mg/L	0.000906	0.00519	mg/L	0.000906	17.45%
Ba 233.527†	0.2	0.00002	mg/L	0.000270	0.00002	mg/L	0.000270	>999.9%
Be 313.042†	-11.3	-0.00004	mg/L	0.000043	-0.00004	mg/L	0.000043	114.40%
Ca 317.933†	-10.1	-0.00108	mg/L	0.001204	-0.00108	mg/L	0.001204	111.96%
Cd 228.802†	4.9	0.00009	mg/L	0.000057	0.00009	mg/L	0.000057	61.09%
Co 228.616†	5.8	0.00011	mg/L	0.000032	0.00011	mg/L	0.000032	28.84%
Cr 267.716†	2.0	0.00051	mg/L	0.001523	0.00051	mg/L	0.001523	300.53%
Cu 324.752†	-27.5	-0.00013	mg/L	0.000112	-0.00013	mg/L	0.000112	87.57%
Fe 273.955†	1.7	0.00146	mg/L	0.004093	0.00146	mg/L	0.004093	279.77%
K 766.490†	19.3	0.00718	mg/L	0.022354	0.00718	mg/L	0.022354	311.44%
Mg 279.077†	-6.7	-0.00610	mg/L	0.005097	-0.00610	mg/L	0.005097	83.52%
Mn 257.610†	-7.1	-0.00018	mg/L	0.000030	-0.00018	mg/L	0.000030	16.73%
Mo 202.031†	-0.6	-0.00005	mg/L	0.000243	-0.00005	mg/L	0.000243	464.38%
Na 589.592†	216.4	0.03451	mg/L	0.010713	0.03451	mg/L	0.010713	31.04%
Na 330.237†	-4.9	-0.2104	mg/L	0.33309	-0.2104	mg/L	0.33309	158.33%
Ni 231.604†	6.4	0.00347	mg/L	0.004304	0.00347	mg/L	0.004304	123.95%
Pb 220.353†	-6.4	-0.00080	mg/L	0.000532	-0.00080	mg/L	0.000532	66.79%
Sb 206.836†	-2.2	-0.00103	mg/L	0.001888	-0.00103	mg/L	0.001888	182.83%
Se 196.026†	4.8	0.00444	mg/L	0.004478	0.00444	mg/L	0.004478	100.78%
Si 288.158†	9.8	0.00773	mg/L	0.001904	0.00773	mg/L	0.001904	24.65%
Sn 189.927†	8.6	0.00220	mg/L	0.000253	0.00220	mg/L	0.000253	11.49%
Sr 421.552†	-5.4	-0.00001	mg/L	0.000020	-0.00001	mg/L	0.000020	185.00%
Ti 334.903†	0.0	0.00000	mg/L	0.001611	0.00000	mg/L	0.001611	>999.9%
Tl 190.801†	6.6	0.00315	mg/L	0.001634	0.00315	mg/L	0.001634	51.85%
V 292.402†	-39.6	-0.00032	mg/L	0.000043	-0.00032	mg/L	0.000043	13.38%
Zn 206.200†	6.9	0.00294	mg/L	0.000752	0.00294	mg/L	0.000752	25.61%

Sequence No.: 8

Autosampler Location: 24

Sample ID: RG80 MB SWC

Date Collected: 8/11/2010 1:20:01 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 MB SWC

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

DC

Mean Data: RG80 MB SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1893726.7	106.5	%	0.48				0.45%
ScR 361.383	217277.3	106.0	%	0.34				0.32%
Ag 328.068†	26.8	0.00013	mg/L	0.000167	0.00027	mg/L	0.000334	124.21%
Al 308.215†	21.5	0.01564	mg/L	0.008925	0.03128	mg/L	0.017850	57.07%
As 188.979†	-3.3	-0.00197	mg/L	0.000690	-0.00395	mg/L	0.001380	34.94%
B 249.677†	3.9	0.00181	mg/L	0.001462	0.00361	mg/L	0.002924	80.92%
Ba 233.527†	-0.7	-0.00008	mg/L	0.000179	-0.00017	mg/L	0.000359	213.02%
Be 313.042†	-9.6	-0.00003	mg/L	0.000095	-0.00007	mg/L	0.000190	290.73%
Ca 317.933†	88.2	0.00942	mg/L	0.003380	0.01884	mg/L	0.006759	35.87%
Cd 228.802†	-7.6	-0.00013	mg/L	0.000219	-0.00026	mg/L	0.000437	166.41%
Co 228.616†	15.6	0.00030	mg/L	0.000107	0.00060	mg/L	0.000214	35.39%
Cr 267.716†	0.9	0.00023	mg/L	0.002290	0.00046	mg/L	0.004580	992.38%
Cu 324.752†	-123.8	-0.00057	mg/L	0.000099	-0.00115	mg/L	0.000198	17.20%
Fe 273.955†	3.9	0.00339	mg/L	0.001441	0.00677	mg/L	0.002881	42.54%
K 766.490†	1.2	0.00045	mg/L	0.010365	0.00091	mg/L	0.020730	>999.9%
Mg 279.077†	0.3	0.00027	mg/L	0.006025	0.00054	mg/L	0.012049	>999.9%
Mn 257.610†	-8.0	-0.00020	mg/L	0.000053	-0.00040	mg/L	0.000106	26.31%
Mo 202.031†	-1.9	-0.00016	mg/L	0.000359	-0.00033	mg/L	0.000718	220.55%
Na 589.592†	19.2	0.00306	mg/L	0.004996	0.00611	mg/L	0.009991	163.41%
Na 330.237†	11.7	0.4930	mg/L	0.36678	0.9860	mg/L	0.73356	74.40%
Ni 231.604†	-0.2	-0.00013	mg/L	0.000512	-0.00027	mg/L	0.001024	386.00%
Pb 220.353†	-9.9	-0.00122	mg/L	0.000530	-0.00245	mg/L	0.001061	43.30%
Sb 206.836†	-9.4	-0.00457	mg/L	0.002320	-0.00915	mg/L	0.004640	50.74%
Se 196.026†	4.1	0.00375	mg/L	0.003233	0.00751	mg/L	0.006465	86.13%
Si 288.158†	2.1	0.00162	mg/L	0.005527	0.00325	mg/L	0.011054	340.43%
Sn 189.927†	6.0	0.00153	mg/L	0.000364	0.00305	mg/L	0.000727	23.81%
Sr 421.552†	-8.3	-0.00002	mg/L	0.000041	-0.00003	mg/L	0.000083	244.81%
Ti 334.903†	-21.0	-0.00103	mg/L	0.000883	-0.00207	mg/L	0.001767	85.46%
Tl 190.801†	3.7	0.00175	mg/L	0.001041	0.00349	mg/L	0.002081	59.63%
V 292.402†	-11.9	-0.00010	mg/L	0.000023	-0.00019	mg/L	0.000046	23.91%
Zn 206.200†	6.5	0.00280	mg/L	0.000993	0.00560	mg/L	0.001985	35.43%

Sequence No.: 9
Sample ID: RG80 D SWC

Autosampler Location: 25
Date Collected: 8/11/2010 1:26:01 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 D SWC

Analyte Back Pressure Flow
All 177.0 kPa 0.55 L/min

DC

Mean Data: RG80 D SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1893246.7	106.5	%	0.98				0.92%
ScR 361.383	221721.1	108.2	%	0.60				0.55%
Ag 328.068†	-660.5	0.00202	mg/L	0.000086	0.00403	mg/L	0.000172	4.27%
Al 308.215†	33328.0	24.23	mg/L	0.040	48.45	mg/L	0.080	0.16%
As 188.979†	12.6	0.01024	mg/L	0.001424	0.02049	mg/L	0.002848	13.90%
B 249.677†	92.1	0.04292	mg/L	0.000776	0.08584	mg/L	0.001552	1.81%
Ba 233.527†	2211.5	0.2681	mg/L	0.00122	0.5361	mg/L	0.00245	0.46%
Be 313.042†	164.6	0.00015	mg/L	0.000034	0.00030	mg/L	0.000069	23.07%
Ca 317.933†	219465.4	23.45	mg/L	0.024	46.89	mg/L	0.047	0.10%
Cd 228.802†	1022.1	0.01827	mg/L	0.000299	0.03654	mg/L	0.000599	1.64%
Co 228.616†	1188.1	0.02021	mg/L	0.000392	0.04042	mg/L	0.000784	1.94%
Cr 267.716†	992.7	0.2509	mg/L	0.00150	0.5018	mg/L	0.00300	0.60%
Cu 324.752†	223394.8	1.050	mg/L	0.0147	2.100	mg/L	0.0294	1.40%
Fe 273.955†	166337.1	145.3	mg/L	0.25	290.7	mg/L	0.51	0.17%
K 766.490†	3445.6	1.280	mg/L	0.0044	2.561	mg/L	0.0087	0.34%
Mg 279.077†	9173.7	8.235	mg/L	0.0290	16.47	mg/L	0.058	0.35%
Mn 257.610†	38733.4	0.9685	mg/L	0.00145	1.937	mg/L	0.0029	0.15%
Mo 202.031†	282.1	0.02411	mg/L	0.000679	0.04821	mg/L	0.001359	2.82%
Na 589.592†	8391.2	1.338	mg/L	0.0126	2.677	mg/L	0.0252	0.94%
Na 330.237†	97.0	1.199	mg/L	0.2571	2.398	mg/L	0.5141	21.44%
Ni 231.604†	242.6	0.1327	mg/L	0.00409	0.2653	mg/L	0.00819	3.09%
Pb 220.353†	4507.0	0.5594	mg/L	0.00778	1.119	mg/L	0.0156	1.39%
Sb 206.836†	66.6	0.00247	mg/L	0.000771	0.00494	mg/L	0.001542	31.21%
Se 196.026†	-35.7	-0.00448	mg/L	0.009380	-0.00895	mg/L	0.018759	209.52%
Si 288.158†	4981.7	3.945	mg/L	0.0149	7.890	mg/L	0.0299	0.38%
Sn 189.927†	97.6	0.02709	mg/L	0.001388	0.05418	mg/L	0.002775	5.12%
Sr 421.552†	55216.6	0.1121	mg/L	0.00005	0.2243	mg/L	0.00009	0.04%
Ti 334.903†	30019.6	1.479	mg/L	0.0010	2.957	mg/L	0.0021	0.07%
Tl 190.801†	-18.8	-0.01369	mg/L	0.003582	-0.02738	mg/L	0.007165	26.17%
V 292.402†	18687.1	0.1367	mg/L	0.00242	0.2734	mg/L	0.00483	1.77%
Zn 206.200†	22549.4	9.664	mg/L	0.0271	19.33	mg/L	0.054	0.28%

Sequence No.: 10
Sample ID: RG80 G SWC

Autosampler Location: 26
Date Collected: 8/11/2010 1:32:01 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 G SWC

Analyte Back Pressure Flow
All 177.0 kPa 0.55 L/min

DL

Mean Data: RG80 G SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1861346.9	104.7	%	0.34				0.33%
ScR 361.383	220375.7	107.5	%	0.70				0.65%
Ag 328.068†	-675.1	0.00795	mg/L	0.000199	0.01590	mg/L	0.000398	2.50%
Al 308.215†	182171.1	132.4	mg/L	0.11	264.8	mg/L	0.23	0.09%
As 188.979†	70.4	0.05823	mg/L	0.002448	0.1165	mg/L	0.00490	4.20%
B 249.677†	261.7	0.1215	mg/L	0.00218	0.2431	mg/L	0.00435	1.79%
Ba 233.527†	15793.4	1.948	mg/L	0.0070	3.895	mg/L	0.0139	0.36%
Be 313.042†	983.1	0.00127	mg/L	0.000025	0.00254	mg/L	0.000050	1.99%
Ca 317.933†	965017.1	103.1	mg/L	0.10	206.2	mg/L	0.21	0.10%
Cd 228.802†	3357.3	0.06012	mg/L	0.000339	0.1202	mg/L	0.00068	0.56%
Co 228.616†	6666.6	0.1124	mg/L	0.00070	0.2248	mg/L	0.00140	0.62%
Cr 267.716†	6600.0	1.657	mg/L	0.0063	3.314	mg/L	0.0127	0.38%
Cu 324.752†	486252.6	2.286	mg/L	0.0046	4.572	mg/L	0.0092	0.20%
Fe 273.955†	382825.5	334.5	mg/L	1.02	669.0	mg/L	2.04	0.30%
K 766.490†	21504.0	7.992	mg/L	0.0024	15.98	mg/L	0.005	0.03%
Mg 279.077†	58421.7	52.80	mg/L	0.114	105.6	mg/L	0.23	0.22%
Mn 257.610†	232200.2	5.806	mg/L	0.0059	11.61	mg/L	0.012	0.10%
Mo 202.031†	1673.1	0.1456	mg/L	0.00080	0.2913	mg/L	0.00160	0.55%
Na 589.592†	37735.6	6.019	mg/L	0.0164	12.04	mg/L	0.033	0.27%
Na 330.237†	218.3	5.584	mg/L	0.1733	11.17	mg/L	0.347	3.10%
Ni 231.604†	1755.7	0.9598	mg/L	0.00529	1.920	mg/L	0.0106	0.55%
Pb 220.353†	13395.3	1.689	mg/L	0.0107	3.377	mg/L	0.0215	0.64%
Sb 206.836†	201.3	0.00203	mg/L	0.002022	0.00406	mg/L	0.00405	99.72%
Se 196.026†	-103.2	-0.01885	mg/L	0.004316	-0.03770	mg/L	0.008632	22.90%
Si 288.158†	8281.4	6.564	mg/L	0.0211	13.13	mg/L	0.042	0.32%
Sn 189.927†	305.0	0.08858	mg/L	0.001589	0.1772	mg/L	0.00318	1.79%
Sr 421.552†	231993.2	0.4711	mg/L	0.00015	0.9422	mg/L	0.00030	0.03%
Ti 334.903†	178739.3	8.806	mg/L	0.0070	17.61	mg/L	0.014	0.08%
Tl 190.801†	-17.1	-0.03558	mg/L	0.003290	-0.07116	mg/L	0.006581	9.25%
V 292.402†	93816.4	0.7344	mg/L	0.00299	1.469	mg/L	0.0060	0.41%
Zn 206.200†	35524.0	15.23	mg/L	0.080	30.45	mg/L	0.160	0.53%

Sequence No.: 11
Sample ID: RG80 H SWC

Autosampler Location: 27
Date Collected: 8/11/2010 1:37:51 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 H SWC

Analyte Back Pressure Flow
All 177.0 kPa 0.55 L/min

Mean Data: RG80 H SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1889647.6	106.3	%	0.54				0.50%
ScR 361.383	223111.4	108.8	%	0.50				0.46%
Ag 328.068†	1283.0	0.01482	mg/L	0.000241	0.02964	mg/L	0.000482	1.63%
Al 308.215†	225979.2	164.3	mg/L	0.26	328.6	mg/L	0.53	0.16%
As 188.979†	373.0	0.2346	mg/L	0.00246	0.4692	mg/L	0.00493	1.05%
B 249.677†	117.7	0.05434	mg/L	0.002802	0.1087	mg/L	0.00560	5.16%
Ba 233.527†	8574.8	1.055	mg/L	0.0035	2.110	mg/L	0.0071	0.33%
Be 313.042†	840.1	0.00151	mg/L	0.000040	0.00302	mg/L	0.000080	2.64%
Ca 317.933†	382431.8	40.86	mg/L	0.036	81.71	mg/L	0.072	0.09%
Cd 228.802†	4475.9	0.07976	mg/L	0.000743	0.1595	mg/L	0.00149	0.93%
Co 228.616†	5085.9	0.08708	mg/L	0.000986	0.1742	mg/L	0.00197	1.13%
Cr 267.716†	6434.0	1.615	mg/L	0.0061	3.230	mg/L	0.0122	0.38%
Cu 324.752†	1076779.6	5.021	mg/L	0.0043	10.04	mg/L	0.009	0.09%
Fe 273.955†	266917.3	233.2	mg/L	1.07	466.5	mg/L	2.15	0.46%
K 766.490†	9537.3	3.544	mg/L	0.0070	7.089	mg/L	0.0140	0.20%
Mg 279.077†	41866.9	37.84	mg/L	0.097	75.68	mg/L	0.194	0.26%
Mn 257.610†	108347.2	2.711	mg/L	0.0025	5.422	mg/L	0.0050	0.09%
Mo 202.031†	1026.5	0.08923	mg/L	0.000666	0.1785	mg/L	0.00133	0.75%
Na 589.592†	22301.1	3.557	mg/L	0.0049	7.114	mg/L	0.0098	0.14%
Na 330.237†	142.9	3.744	mg/L	0.2755	7.489	mg/L	0.5510	7.36%
Ni 231.604†	1721.3	0.9410	mg/L	0.00447	1.882	mg/L	0.0089	0.48%
Pb 220.353†	87222.8	10.92	mg/L	0.015	21.83	mg/L	0.030	0.14%
Sb 206.836†	337.5	0.07303	mg/L	0.001695	0.1461	mg/L	0.00339	2.32%
Se 196.026†	-81.5	-0.00644	mg/L	0.001417	-0.01288	mg/L	0.002834	22.01%
Si 288.158†	8241.2	6.530	mg/L	0.0188	13.06	mg/L	0.038	0.29%
Sn 189.927†	600.0	0.1593	mg/L	0.00072	0.3187	mg/L	0.00144	0.45%
Sr 421.552†	110427.3	0.2242	mg/L	0.00069	0.4485	mg/L	0.00138	0.31%
Ti 334.903†	121957.0	6.009	mg/L	0.0062	12.02	mg/L	0.012	0.10%
Tl 190.801†	-15.0	-0.02433	mg/L	0.004452	-0.04867	mg/L	0.008904	18.30%
V 292.402†	60923.0	0.4780	mg/L	0.00048	0.9560	mg/L	0.00095	0.10%
Zn 206.200†	24260.8	10.40	mg/L	0.035	20.80	mg/L	0.070	0.34%

Sequence No.: 12
Sample ID: RG80 O SWC

Autosampler Location: 28
Date Collected: 8/11/2010 1:43:40 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 O SWC

Analyte Back Pressure Flow
All 177.0 kPa 0.55 L/min

Mean Data: RG80 O SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1910109.4	107.4	%	0.48				0.45%
ScR 361.383	211976.7	103.4	%	9.69				9.37%
Ag 328.068†	-918.1	0.00298	mg/L	0.000832	0.00595	mg/L	0.001664	27.97%
Al 308.215†	138365.2	100.6	mg/L	11.14	201.2	mg/L	22.28	11.08%
As 188.979†	42.3	0.03790	mg/L	0.002366	0.07580	mg/L	0.004732	6.24%
B 249.677†	242.9	0.1130	mg/L	0.01187	0.2259	mg/L	0.02374	10.51%
Ba 233.527†	10802.4	1.333	mg/L	0.1412	2.665	mg/L	0.2824	10.60%
Be 313.042†	696.1	0.00117	mg/L	0.000455	0.00234	mg/L	0.000910	38.96%
Ca 317.933†	757159.3	80.89	mg/L	9.182	161.8	mg/L	18.36	11.35%
Cd 228.802†	2752.5	0.04926	mg/L	0.000062	0.09852	mg/L	0.000123	0.12%
Co 228.616†	4363.3	0.07182	mg/L	0.001098	0.1436	mg/L	0.00220	1.53%
Cr 267.716†	4233.6	1.063	mg/L	0.1137	2.125	mg/L	0.2274	10.70%
Cu 324.752†	236718.8	1.118	mg/L	0.0092	2.235	mg/L	0.0184	0.82%
Fe 273.955†	254924.4	222.8	mg/L	24.92	445.5	mg/L	49.84	11.19%
K 766.490†	14413.3	5.356	mg/L	0.7178	10.71	mg/L	1.436	13.40%
Mg 279.077†	52773.5	47.74	mg/L	5.311	95.47	mg/L	10.622	11.13%
Mn 257.610†	121281.0	3.032	mg/L	0.3367	6.064	mg/L	0.6734	11.10%
Mo 202.031†	824.7	0.07180	mg/L	0.000325	0.1436	mg/L	0.00065	0.45%
Na 589.592†	29904.0	4.770	mg/L	0.5418	9.540	mg/L	1.0835	11.36%
Na 330.237†	132.7	4.270	mg/L	0.7964	8.541	mg/L	1.5928	18.65%
Ni 231.604†	1115.2	0.6096	mg/L	0.06539	1.219	mg/L	0.1308	10.73%
Pb 220.353†	7243.0	0.9189	mg/L	0.00323	1.838	mg/L	0.0065	0.35%
Sb 206.836†	123.7	-0.00514	mg/L	0.009011	-0.01027	mg/L	0.018021	175.45%
Se 196.026†	-70.1	-0.01045	mg/L	0.012075	-0.02089	mg/L	0.024150	115.60%
Si 288.158†	7869.5	6.237	mg/L	0.6445	12.47	mg/L	1.289	10.33%
Sn 189.927†	122.3	0.03962	mg/L	0.001214	0.07925	mg/L	0.002429	3.06%
Sr 421.552†	174482.1	0.3543	mg/L	0.03864	0.7086	mg/L	0.07729	10.91%
Ti 334.903†	137121.4	6.755	mg/L	0.7501	13.51	mg/L	1.500	11.10%
Tl 190.801†	-5.8	-0.02106	mg/L	0.005172	-0.04213	mg/L	0.010344	24.55%
V 292.402†	53301.5	0.4126	mg/L	0.00049	0.8252	mg/L	0.00099	0.12%
Zn 206.200†	16432.6	7.044	mg/L	0.7439	14.09	mg/L	1.488	10.56%

Sequence No.: 13
Sample ID: RG80 P SWC

Autosampler Location: 29
Date Collected: 8/11/2010 1:49:43 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 P SWC

Analyte Back Pressure Flow
All 178.0 kPa 0.55 L/min

Mean Data: RG80 P SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1932513.0	108.7	%	0.26				0.24%
ScR 361.383	225665.6	110.1	%	0.33				0.30%
Ag 328.068†	-809.8	0.00325	mg/L	0.000196	0.00649	mg/L	0.000392	6.05%
Al 308.215†	124386.1	90.42	mg/L	0.132	180.8	mg/L	0.26	0.15%
As 188.979†	97.2	0.06877	mg/L	0.004396	0.1375	mg/L	0.00879	6.39%
B 249.677†	90.3	0.04165	mg/L	0.000019	0.08331	mg/L	0.000039	0.05%
Ba 233.527†	5979.1	0.7336	mg/L	0.00286	1.467	mg/L	0.0057	0.39%
Be 313.042†	640.1	0.00104	mg/L	0.000031	0.00208	mg/L	0.000063	3.03%
Ca 317.933†	408700.0	43.66	mg/L	0.062	87.33	mg/L	0.125	0.14%
Cd 228.802†	1711.5	0.03068	mg/L	0.000208	0.06135	mg/L	0.000417	0.68%
Co 228.616†	4442.2	0.07534	mg/L	0.000435	0.1507	mg/L	0.00087	0.58%
Cr 267.716†	4542.1	1.140	mg/L	0.0029	2.281	mg/L	0.0059	0.26%
Cu 324.752†	223314.2	1.054	mg/L	0.0088	2.108	mg/L	0.0177	0.84%
Fe 273.955†	234467.9	204.9	mg/L	0.15	409.8	mg/L	0.30	0.07%
K 766.490†	11133.0	4.137	mg/L	0.0228	8.275	mg/L	0.0455	0.55%
Mg 279.077†	44589.0	40.32	mg/L	0.074	80.65	mg/L	0.147	0.18%
Mn 257.610†	92571.4	2.315	mg/L	0.0024	4.629	mg/L	0.0048	0.10%
Mo 202.031†	510.3	0.04428	mg/L	0.000514	0.08857	mg/L	0.001028	1.16%
Na 589.592†	18467.8	2.946	mg/L	0.0126	5.891	mg/L	0.0252	0.43%
Na 330.237†	104.9	3.505	mg/L	0.2707	7.009	mg/L	0.5414	7.72%
Ni 231.604†	1483.2	0.8108	mg/L	0.00124	1.622	mg/L	0.0025	0.15%
Pb 220.353†	18089.1	2.271	mg/L	0.0150	4.542	mg/L	0.0300	0.66%
Sb 206.836†	141.3	0.00610	mg/L	0.004503	0.01221	mg/L	0.009006	73.78%
Se 196.026†	-62.2	-0.00777	mg/L	0.002527	-0.01555	mg/L	0.005054	32.50%
Si 288.158†	9955.9	7.887	mg/L	0.0291	15.77	mg/L	0.058	0.37%
Sn 189.927†	224.8	0.06329	mg/L	0.000583	0.1266	mg/L	0.00117	0.92%
Sr 421.552†	123440.3	0.2507	mg/L	0.00023	0.5013	mg/L	0.00047	0.09%
Ti 334.903†	115413.2	5.687	mg/L	0.0064	11.37	mg/L	0.013	0.11%
Tl 190.801†	-14.3	-0.02239	mg/L	0.004403	-0.04477	mg/L	0.008806	19.67%
V 292.402†	51071.5	0.3975	mg/L	0.00285	0.7951	mg/L	0.00569	0.72%
Zn 206.200†	13548.3	5.807	mg/L	0.0132	11.61	mg/L	0.026	0.23%

Sequence No.: 14

Autosampler Location: 30

Sample ID: RG80 CDUP SWC

Date Collected: 8/11/2010 1:55:44 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 CDUP SWC

Analyte	Back Pressure	Flow
All	177.0 kPa	0.55 L/min

Mean Data: RG80 CDUP SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1912200.5	107.5	%	0.85				0.79%
ScR 361.383	222339.0	108.5	%	0.68				1.77%
Ag 328.068†	302.5	0.00626	mg/L	0.000111	0.01252	mg/L	0.000222	0.63%
Al 308.215†	96425.8	70.09	mg/L	0.172	140.2	mg/L	0.34	0.25%
As 188.979†	28.6	0.02682	mg/L	0.003599	0.05364	mg/L	0.007197	13.42%
B 249.677†	139.7	0.06494	mg/L	0.001474	0.1299	mg/L	0.00295	2.27%
Ba 233.527†	4743.6	0.5832	mg/L	0.00496	1.166	mg/L	0.0099	0.85%
Be 313.042†	477.6	0.00072	mg/L	0.000053	0.00144	mg/L	0.000106	7.37%
Ca 317.933†	374700.7	40.03	mg/L	0.144	80.06	mg/L	0.287	0.36%
Cd 228.802†	1308.5	0.02341	mg/L	0.000366	0.04681	mg/L	0.000732	1.56%
Co 228.616†	3020.9	0.04918	mg/L	0.000640	0.09837	mg/L	0.001280	1.30%
Cr 267.716†	1949.8	0.4899	mg/L	0.00253	0.9798	mg/L	0.00505	0.52%
Cu 324.752†	159703.1	0.7527	mg/L	0.00694	1.505	mg/L	0.0139	0.92%
Fe 273.955†	156787.2	137.0	mg/L	0.77	274.0	mg/L	1.55	0.56%
K 766.490†	10688.2	3.972	mg/L	0.0102	7.944	mg/L	0.0204	0.26%
Mg 279.077†	26997.9	24.41	mg/L	0.103	48.82	mg/L	0.205	0.42%
Mn 257.610†	77706.2	1.943	mg/L	0.0034	3.886	mg/L	0.0068	0.18%
Mo 202.031†	374.4	0.03227	mg/L	0.000244	0.06455	mg/L	0.000488	0.76%
Na 589.592†	20139.3	3.212	mg/L	0.0146	6.425	mg/L	0.0292	0.45%
Na 330.237†	129.8	3.699	mg/L	0.2713	7.398	mg/L	0.5426	7.33%
Ni 231.604†	531.6	0.2906	mg/L	0.00081	0.5813	mg/L	0.00162	0.28%
Pb 220.353†	7308.4	0.9232	mg/L	0.01173	1.846	mg/L	0.0235	1.27%
Sb 206.836†	76.8	-0.00034	mg/L	0.000174	-0.00069	mg/L	0.000349	50.65%
Se 196.026†	-40.8	-0.00260	mg/L	0.002134	-0.00520	mg/L	0.004267	82.01%
Si 288.158†	6515.4	5.161	mg/L	0.0244	10.32	mg/L	0.049	0.47%
Sn 189.927†	119.7	0.03544	mg/L	0.000896	0.07089	mg/L	0.001792	2.53%
Sr 421.552†	103094.0	0.2094	mg/L	0.00027	0.4187	mg/L	0.00053	0.13%
Ti 334.903†	102367.7	5.044	mg/L	0.0045	10.09	mg/L	0.009	0.09%
Tl 190.801†	5.5	-0.01056	mg/L	0.000405	-0.02112	mg/L	0.000810	3.84%
V 292.402†	40169.2	0.3124	mg/L	0.00361	0.6249	mg/L	0.00721	1.15%
Zn 206.200†	19079.5	8.178	mg/L	0.0840	16.36	mg/L	0.168	1.03%

Sequence No.: 15
Sample ID: RG80 C SWC

Autosampler Location: 31
Date Collected: 8/11/2010 2:01:45 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 C SWC

Analyte Back Pressure Flow
All 177.0 kPa 0.55 L/min

Mean Data: RG80 C SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1883683.0	105.9	%	0.30				0.28%
ScR 361.383	190657.6	93.00	%	24.336				26.17%
Ag 328.068†	37.2	0.00639	mg/L	0.001846	0.01278	mg/L	0.003693	28.90%
Al 308.215†	124176.0	90.27	mg/L	27.957	180.5	mg/L	55.91	30.97%
As 188.979†	32.2	0.02961	mg/L	0.004233	0.05921	mg/L	0.008467	14.30%
B 249.677†	157.3	0.07317	mg/L	0.018393	0.1463	mg/L	0.03679	25.14%
Ba 233.527†	5823.7	0.7156	mg/L	0.22435	1.431	mg/L	0.4487	31.35%
Be 313.042†	707.1	0.00152	mg/L	0.001334	0.00304	mg/L	0.002669	87.86%
Ca 317.933†	525847.7	56.18	mg/L	17.352	112.4	mg/L	34.70	30.89%
Cd 228.802†	1219.8	0.02183	mg/L	0.000112	0.04366	mg/L	0.000224	0.51%
Co 228.616†	2829.8	0.04489	mg/L	0.002583	0.08978	mg/L	0.005165	5.75%
Cr 267.716†	2215.0	0.5567	mg/L	0.16674	1.113	mg/L	0.3335	29.95%
Cu 324.752†	138979.7	0.6602	mg/L	0.00446	1.320	mg/L	0.0089	0.67%
Fe 273.955†	205631.0	179.7	mg/L	53.56	359.4	mg/L	107.12	29.81%
K 766.490†	16769.0	6.232	mg/L	2.3148	12.46	mg/L	4.630	37.14%
Mg 279.077†	35325.4	31.94	mg/L	9.825	63.87	mg/L	19.650	30.76%
Mn 257.610†	94075.5	2.352	mg/L	0.7293	4.704	mg/L	1.4585	31.01%
Mo 202.031†	325.3	0.02792	mg/L	0.000756	0.05583	mg/L	0.001512	2.71%
Na 589.592†	26493.3	4.226	mg/L	1.4108	8.452	mg/L	2.8215	33.38%
Na 330.237†	108.1	2.523	mg/L	2.5635	5.046	mg/L	5.1269	101.60%
Ni 231.604†	584.9	0.3198	mg/L	0.08835	0.6395	mg/L	0.17670	27.63%
Pb 220.353†	6225.3	0.7911	mg/L	0.00961	1.582	mg/L	0.0192	1.21%
Sb 206.836†	83.7	-0.00922	mg/L	0.014170	-0.01844	mg/L	0.028340	153.68%
Se 196.026†	-43.5	0.00580	mg/L	0.015192	0.01160	mg/L	0.030384	261.95%
Si 288.158†	8216.2	6.508	mg/L	2.0077	13.02	mg/L	4.015	30.85%
Sn 189.927†	86.6	0.02818	mg/L	0.001805	0.05635	mg/L	0.003611	6.41%
Sr 421.552†	138370.2	0.2810	mg/L	0.08689	0.5620	mg/L	0.17379	30.92%
Ti 334.903†	109109.4	5.376	mg/L	1.6688	10.75	mg/L	3.338	31.04%
Tl 190.801†	-9.1	-0.01859	mg/L	0.002986	-0.03719	mg/L	0.005972	16.06%
V 292.402†	39409.0	0.3014	mg/L	0.00719	0.6027	mg/L	0.01438	2.39%
Zn 206.200†	20682.0	8.865	mg/L	2.6469	17.73	mg/L	5.294	29.86%

Sequence No.: 16
Sample ID: RG80 CSPK SWC

Autosampler Location: 32
Date Collected: 8/11/2010 2:07:46 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 CSPK SWC

Analyte Back Pressure Flow
All 178.0 kPa 0.55 L/min

Dec

Mean Data: RG80 CSPK SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	1925704.7		108.3 %	0.90				0.83%
ScR 361.383	223446.6		109.0 %	0.71				0.65%
Ag 328.068†	89315.2		0.4535 mg/L	0.00088	0.9070 mg/L		0.00176	0.19%
Al 308.215†	89876.3		65.33 mg/L	0.218	130.7 mg/L		0.44	0.33%
As 188.979†	2963.6		1.789 mg/L	0.0233	3.578 mg/L		0.0465	1.30%
B 249.677†	151.5	0.06905	mg/L	0.002629	0.1381 mg/L		0.00526	3.81%
Ba 233.527†	18874.7		2.340 mg/L	0.0202	4.679 mg/L		0.0404	0.86%
Be 313.042†	138530.2		0.4739 mg/L	0.00064	0.9478 mg/L		0.00128	0.14%
Ca 317.933†	438875.3		46.89 mg/L	0.030	93.77 mg/L		0.060	0.06%
Cd 228.802†	27076.0		0.4803 mg/L	0.00148	0.9606 mg/L		0.00296	0.31%
Co 228.616†	25832.6		0.4889 mg/L	0.00103	0.9778 mg/L		0.00206	0.21%
Cr 267.716†	3678.3		0.9231 mg/L	0.00621	1.846 mg/L		0.0124	0.67%
Cu 324.752†	270823.6		1.270 mg/L	0.0016	2.541 mg/L		0.0032	0.13%
Fe 273.955†	171636.9		150.0 mg/L	1.27	300.0 mg/L		2.55	0.85%
K 766.490†	33792.3		12.56 mg/L	0.053	25.12 mg/L		0.107	0.43%
Mg 279.077†	35501.4		32.11 mg/L	0.256	64.23 mg/L		0.512	0.80%
Mn 257.610†	94054.2		2.352 mg/L	0.0032	4.704 mg/L		0.0064	0.14%
Mo 202.031†	403.5	0.03480	mg/L	0.000468	0.06960 mg/L		0.000936	1.35%
Na 589.592†	76103.3		12.14 mg/L	0.069	24.28 mg/L		0.138	0.57%
Na 330.237†	343.6		12.57 mg/L	0.124	25.14 mg/L		0.249	0.99%
Ni 231.604†	1371.2		0.7488 mg/L	0.00538	1.498 mg/L		0.0108	0.72%
Pb 220.353†	20887.0		2.616 mg/L	0.0320	5.232 mg/L		0.0639	1.22%
Sb 206.836†	92.1	-0.00061	mg/L	0.003005	-0.00123 mg/L		0.006011	488.85%
Se 196.026†	1864.5		1.755 mg/L	0.0207	3.510 mg/L		0.0415	1.18%
Si 288.158†	6612.0		5.239 mg/L	0.0488	10.48 mg/L		0.098	0.93%
Sn 189.927†	98.8	0.03036	mg/L	0.000931	0.06072 mg/L		0.001862	3.07%
Sr 421.552†	328562.7		0.6672 mg/L	0.00246	1.334 mg/L		0.0049	0.37%
Ti 334.903†	85745.8		4.224 mg/L	0.0062	8.449 mg/L		0.0125	0.15%
Tl 190.801†	3648.2		1.724 mg/L	0.0196	3.448 mg/L		0.0392	1.14%
V 292.402†	93688.0		0.7530 mg/L	0.00169	1.506 mg/L		0.0034	0.22%
Zn 206.200†	18768.2		8.044 mg/L	0.0729	16.09 mg/L		0.146	0.91%

Sequence No.: 17
Sample ID: RH55 MBSPK SWC

Autosampler Location: 33
Date Collected: 8/11/2010 2:13:37 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RH55 MBSPK SWC

Analyte Back Pressure Flow
All 178.0 kPa 0.55 L/min

Mean Data: RH55 MBSPK SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1955673.0	110.0	%	0.95			0.86%
ScR 361.383	230584.3	112.5	%	0.47			0.41%
Ag 328.068†	90789.1	0.4557	mg/L	0.00297	0.9114 mg/L	0.00595	0.65%
Al 308.215†	3018.0	2.187	mg/L	0.0184	4.374 mg/L	0.0368	0.84%
As 188.979†	3081.0	1.851	mg/L	0.0184	3.703 mg/L	0.0368	0.99%
B 249.677†	-2.1	-0.00250	mg/L	0.001554	-0.00500 mg/L	0.003107	62.10%
Ba 233.527†	14915.5	1.854	mg/L	0.0113	3.709 mg/L	0.0225	0.61%
Be 313.042†	142086.6	0.4869	mg/L	0.00057	0.9739 mg/L	0.00114	0.12%
Ca 317.933†	92977.3	9.933	mg/L	0.0099	19.87 mg/L	0.020	0.10%
Cd 228.802†	26412.3	0.4683	mg/L	0.00381	0.9365 mg/L	0.00761	0.81%
Co 228.616†	24032.5	0.4617	mg/L	0.00434	0.9235 mg/L	0.00867	0.94%
Cr 267.716†	1916.4	0.4800	mg/L	0.00306	0.9599 mg/L	0.00612	0.64%
Cu 324.752†	102135.6	0.4748	mg/L	0.00362	0.9496 mg/L	0.00724	0.76%
Fe 273.955†	2974.5	2.599	mg/L	0.0174	5.198 mg/L	0.0348	0.67%
K 766.490†	25606.8	9.516	mg/L	0.0403	19.03 mg/L	0.081	0.42%
Mg 279.077†	10873.1	9.862	mg/L	0.0648	19.72 mg/L	0.130	0.66%
Mn 257.610†	18755.3	0.4695	mg/L	0.00336	0.9389 mg/L	0.00671	0.72%
Mo 202.031†	11.1	0.00089	mg/L	0.000148	0.00179 mg/L	0.000297	16.60%
Na 589.592†	58082.6	9.265	mg/L	0.0125	18.53 mg/L	0.025	0.14%
Na 330.237†	243.4	10.08	mg/L	0.166	20.16 mg/L	0.332	1.64%
Ni 231.604†	863.1	0.4710	mg/L	0.00252	0.9420 mg/L	0.00504	0.54%
Pb 220.353†	14975.2	1.870	mg/L	0.0201	3.739 mg/L	0.0402	1.08%
Sb 206.836†	-0.1	-0.00717	mg/L	0.000987	-0.01435 mg/L	0.001974	13.76%
Se 196.026†	2034.7	1.877	mg/L	0.0205	3.753 mg/L	0.0409	1.09%
Si 288.158†	27.8	0.02383	mg/L	0.002363	0.04766 mg/L	0.004727	9.92%
Sn 189.927†	-12.9	-0.00248	mg/L	0.000519	-0.00497 mg/L	0.001037	20.89%
Sr 421.552†	236083.9	0.4794	mg/L	0.00051	0.9588 mg/L	0.00103	0.11%
Ti 334.903†	329.6	0.01574	mg/L	0.000405	0.03149 mg/L	0.000810	2.57%
Tl 190.801†	3932.9	1.871	mg/L	0.0139	3.742 mg/L	0.0278	0.74%
V 292.402†	57837.2	0.4768	mg/L	0.00559	0.9535 mg/L	0.01117	1.17%
Zn 206.200†	1180.6	0.5062	mg/L	0.00437	1.012 mg/L	0.0087	0.86%

Sequence No.: 18

Sample ID: CV 2

Autosampler Location: 7

Date Collected: 8/11/2010 2:19:41 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1936910.2	108.9 %	0.31			0.28%
ScR 361.383	224636.2	109.6 %	0.69			0.63%
Ag 328.068†	175754.6	0.8821 mg/L	0.01230	0.8821 mg/L	0.01230	1.39%
Al 308.215†	2682.6	1.915 mg/L	0.0133	1.915 mg/L	0.0133	0.69%
As 188.979†	2986.4	1.794 mg/L	0.0091	1.794 mg/L	0.0091	0.51%
B 249.677†	1957.1	0.9123 mg/L	0.00962	0.9123 mg/L	0.00962	1.05%
Ba 233.527†	7384.0	0.9177 mg/L	0.00648	0.9177 mg/L	0.00648	0.71%
Be 313.042†	272418.1	0.9336 mg/L	0.00141	0.9336 mg/L	0.00141	0.15%
Ca 317.933†	18231.7	1.948 mg/L	0.0124	1.948 mg/L	0.0124	0.64%
Cd 228.802†	52583.9	0.9357 mg/L	0.00963	0.9357 mg/L	0.00963	1.03%
Co 228.616†	47550.6	0.9130 mg/L	0.00810	0.9130 mg/L	0.00810	0.89%
Cr 267.716†	3739.9	0.9372 mg/L	0.00771	0.9372 mg/L	0.00771	0.82%
Cu 324.752†	210405.4	0.9773 mg/L	0.00752	0.9773 mg/L	0.00752	0.77%
Fe 273.955†	2189.3	1.912 mg/L	0.0128	1.912 mg/L	0.0128	0.67%
K 766.490†	50511.7	18.77 mg/L	0.045	18.77 mg/L	0.045	0.24%
Mg 279.077†	2091.7	1.900 mg/L	0.0172	1.900 mg/L	0.0172	0.91%
Mn 257.610†	37036.7	0.9266 mg/L	0.00210	0.9266 mg/L	0.00210	0.23%
Mo 202.031†	10291.5	0.9026 mg/L	0.00469	0.9026 mg/L	0.00469	0.52%
Na 589.592†	285256.9	45.50 mg/L	0.203	45.50 mg/L	0.203	0.45%
Na 330.237†	1120.1	47.29 mg/L	0.405	47.29 mg/L	0.405	0.86%
Ni 231.604†	1709.0	0.9349 mg/L	0.00782	0.9349 mg/L	0.00782	0.84%
Pb 220.353†	14710.7	1.837 mg/L	0.0198	1.837 mg/L	0.0198	1.08%
Sb 206.836†	4034.9	1.952 mg/L	0.0076	1.952 mg/L	0.0076	0.39%
Se 196.026†	1936.8	1.785 mg/L	0.0108	1.785 mg/L	0.0108	0.61%
Si 288.158†	2584.7	2.049 mg/L	0.0143	2.049 mg/L	0.0143	0.70%
Sn 189.927†	3286.7	0.8429 mg/L	0.00605	0.8429 mg/L	0.00605	0.72%
Sr 421.552†	467062.0	0.9485 mg/L	0.00270	0.9485 mg/L	0.00270	0.29%
Ti 334.903†	18712.7	0.9212 mg/L	0.00138	0.9212 mg/L	0.00138	0.15%
Tl 190.801†	3812.8	1.808 mg/L	0.0100	1.808 mg/L	0.0100	0.56%
V 292.402†	111316.2	0.9230 mg/L	0.00799	0.9230 mg/L	0.00799	0.87%
Zn 206.200†	2185.2	0.9358 mg/L	0.00419	0.9358 mg/L	0.00419	0.45%

Sequence No.: 19

Sample ID: CB 2

Autosampler Location: 1

Date Collected: 8/11/2010 2:25:43 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1968321.9	110.7	%	0.69				0.63%
ScR 361.383	222753.0	108.7	%	0.33				0.30%
Ag 328.068†	53.5	0.00027	mg/L	0.000248	0.00027	mg/L	0.000248	92.21%
Al 308.215†	28.5	0.02076	mg/L	0.006055	0.02076	mg/L	0.006055	29.17%
As 188.979†	-6.0	-0.00361	mg/L	0.001447	-0.00361	mg/L	0.001447	40.03%
B 249.677†	4.4	0.00205	mg/L	0.000930	0.00205	mg/L	0.000930	45.47%
Ba 233.527†	3.4	0.00042	mg/L	0.000420	0.00042	mg/L	0.000420	100.88%
Be 313.042†	-21.2	-0.00007	mg/L	0.000061	-0.00007	mg/L	0.000061	85.17%
Ca 317.933†	-1.8	-0.00019	mg/L	0.003297	-0.00019	mg/L	0.003297	>999.9%
Cd 228.802†	-2.0	-0.00003	mg/L	0.000055	-0.00003	mg/L	0.000055	195.15%
Co 228.616†	18.0	0.00035	mg/L	0.000164	0.00035	mg/L	0.000164	46.97%
Cr 267.716†	-6.2	-0.00155	mg/L	0.000946	-0.00155	mg/L	0.000946	61.07%
Cu 324.752†	422.2	0.00196	mg/L	0.000415	0.00196	mg/L	0.000415	21.16%
Fe 273.955†	9.3	0.00814	mg/L	0.001066	0.00814	mg/L	0.001066	13.09%
K 766.490†	-60.2	-0.02238	mg/L	0.001731	-0.02238	mg/L	0.001731	7.73%
Mg 279.077†	-6.7	-0.00606	mg/L	0.003849	-0.00606	mg/L	0.003849	63.54%
Mn 257.610†	-17.4	-0.00044	mg/L	0.000072	-0.00044	mg/L	0.000072	16.57%
Mo 202.031†	-1.6	-0.00014	mg/L	0.000076	-0.00014	mg/L	0.000076	53.69%
Na 589.592†	55.8	0.00889	mg/L	0.002983	0.00889	mg/L	0.002983	33.54%
Na 330.237†	18.0	0.7615	mg/L	0.21728	0.7615	mg/L	0.21728	28.53%
Ni 231.604†	5.4	0.00292	mg/L	0.002389	0.00292	mg/L	0.002389	81.78%
Pb 220.353†	-15.4	-0.00193	mg/L	0.000592	-0.00193	mg/L	0.000592	30.69%
Sb 206.836†	-16.1	-0.00780	mg/L	0.002700	-0.00780	mg/L	0.002700	34.64%
Se 196.026†	8.2	0.00758	mg/L	0.003961	0.00758	mg/L	0.003961	52.27%
Si 288.158†	7.8	0.00621	mg/L	0.001540	0.00621	mg/L	0.001540	24.82%
Sn 189.927†	1.8	0.00047	mg/L	0.000298	0.00047	mg/L	0.000298	63.78%
Sr 421.552†	7.8	0.00002	mg/L	0.000019	0.00002	mg/L	0.000019	121.86%
Ti 334.903†	-29.9	-0.00147	mg/L	0.001583	-0.00147	mg/L	0.001583	107.63%
Tl 190.801†	8.1	0.00389	mg/L	0.001088	0.00389	mg/L	0.001088	27.96%
V 292.402†	-42.4	-0.00036	mg/L	0.000155	-0.00036	mg/L	0.000155	43.30%
Zn 206.200†	10.4	0.00448	mg/L	0.000847	0.00448	mg/L	0.000847	18.92%

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Analysis Begun

Start Time: 8/11/2010 2:31:12 PM Plasma On Time: 8/11/2010 10:23:38 AM
Logged In Analyst: metals Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0060101 Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0811.sif
Batch ID:
Results Data Set: PE100811
Results Library: C:\pe\metals\Results\Results.mdb

=====
Sequence No.: 1
Sample ID: STD2

Date Collected: 8/11/2010 2:31:15 PM
Data Type: Original

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: STD2

Analyte	Mean Corrected		RSD	Calib	
	Intensity	Std.Dev.		Conc.	Units
ScA 357.253	1973349.2	3444.40	0.17%	111.0	%
ScR 361.383	226088.5	2182.83	0.97%	110.3	%
Ba 233.527†	74448.8	139.23	0.19%	[10]	mg/L
Cd 228.802†	504705.2	1768.51	0.35%	[10]	mg/L
Co 228.616†	479848.0	852.68	0.18%	[10]	mg/L
Cr 267.716†	37502.1	118.52	0.32%	[10]	mg/L
Cu 324.752†	1973989.9	3715.86	0.19%	[10]	mg/L
Mn 257.610†	367870.8	480.46	0.13%	[10]	mg/L
V 292.402†	1123411.7	7167.72	0.64%	[10]	mg/L

Sequence No.: 2
Sample ID: STD3

Date Collected: 8/11/2010 2:33:40 PM
Data Type: Original

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: STD3

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	1939862.4	4624.70	0.24%	109.1	%
ScR 361.383	223850.8	287.20	0.13%	109.2	%
Ag 328.068†	179069.9	1001.60	0.56%	[1.0]	mg/L
As 188.979†	14946.6	198.07	1.33%	[10]	mg/L
B 249.677†	20216.8	118.23	0.58%	[10]	mg/L
Be 313.042†	1388471.4	6257.89	0.45%	[5.0]	mg/L
Na 589.592†	288252.9	1765.80	0.61%	[50]	mg/L
Ni 231.604†	17194.0	85.98	0.50%	[10]	mg/L
Pb 220.353†	73010.4	45.50	0.06%	[10]	mg/L
Se 196.026†	9731.0	119.22	1.23%	[10]	mg/L
Sr 421.552†	2328526.3	14830.99	0.64%	[5]	mg/L
Tl 190.801†	19287.8	252.31	1.31%	[10]	mg/L
Zn 206.200†	22044.8	51.80	0.23%	[10]	mg/L

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Analysis Begun

Start Time: 8/11/2010 2:47:18 PM

Plasma On Time: 8/11/2010 10:23:38 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101 Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0811B.sif

Batch ID:

Results Data Set: PE100811

Results Library: C:\pe\metals\Results\Results.mdb
=====

Sequence No.: 3

Sample ID: Calib Blank 1

Date Collected: 8/11/2010 2:47:20 PM

Data Type: Original

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected		RSD		Conc. Units
	Intensity	Std.Dev.	RSD	Conc.	
ScA 357.253	1967237.2	3943.35	0.20%	110.6	%
ScR 361.383	224493.2	1188.19	0.53%	109.5	%
Ag 328.068†	-117.8	33.09	28.08%	[0.00]	mg/L
Al 308.215†	-188.0	5.18	2.75%	[0.00]	mg/L
As 188.979†	14.7	3.21	21.88%	[0.00]	mg/L
B 249.677†	5.9	6.10	102.67%	[0.00]	mg/L
Ba 233.527†	23.3	6.20	26.65%	[0.00]	mg/L
Be 313.042†	499.4	5.67	1.14%	[0.00]	mg/L
Ca 317.933†	-97.5	13.86	14.22%	[0.00]	mg/L
Cd 228.802†	186.5	2.65	1.42%	[0.00]	mg/L
Co 228.616†	-156.5	4.52	2.89%	[0.00]	mg/L
Cr 267.716†	-38.7	6.50	16.79%	[0.00]	mg/L
Cu 324.752†	1903.9	37.18	1.95%	[0.00]	mg/L
Fe 273.955†	-21.0	0.98	4.67%	[0.00]	mg/L
K 766.490†	3373.3	25.98	0.77%	[0.00]	mg/L
Mg 279.077†	-60.3	5.55	9.19%	[0.00]	mg/L
Mn 257.610†	72.2	3.05	4.23%	[0.00]	mg/L
Mo 202.031†	22.3	2.01	9.04%	[0.00]	mg/L
Na 589.592†	1541.4	5.18	0.34%	[0.00]	mg/L
Na 330.237†	-222.2	5.24	2.36%	[0.00]	mg/L
Ni 231.604†	-57.8	2.46	4.25%	[0.00]	mg/L
Pb 220.353†	256.8	5.26	2.05%	[0.00]	mg/L
Sb 206.836†	149.1	4.22	2.83%	[0.00]	mg/L
Se 196.026†	-63.1	2.85	4.51%	[0.00]	mg/L
Si 288.158†	19.4	4.61	23.70%	[0.00]	mg/L
Sn 189.927†	-6.6	5.11	77.78%	[0.00]	mg/L
Sr 421.552†	473.3	40.29	8.51%	[0.00]	mg/L
Ti 334.903†	185.5	8.97	4.84%	[0.00]	mg/L
Tl 190.801†	-13.9	3.92	28.32%	[0.00]	mg/L
V 292.402†	459.8	17.45	3.79%	[0.00]	mg/L
Zn 206.200†	-9.9	1.62	16.39%	[0.00]	mg/L

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Analysis Begun

Start Time: 8/11/2010 2:51:38 PM

Plasma On Time: 8/11/2010 10:23:38 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101 Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0811B.sif

Batch ID:

Results Data Set: PE100811

Results Library: C:\pe\metals\Results\Results.mdb

=====
Sequence No.: 1

Autosampler Location: 7

Sample ID: CV 3

Date Collected: 8/11/2010 2:51:40 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	1970030.4	110.8	%	0.72			0.65%
ScR 361.383	228209.9	111.3	%	1.56			1.40%
Ag 328.068†	172964.1	0.9659	mg/L	0.00338	0.9659 mg/L	0.00338	0.35%
Al 308.215†	2634.3	1.879	mg/L	0.0234	1.879 mg/L	0.0234	1.24%
As 188.979†	2934.7	1.963	mg/L	0.0035	1.963 mg/L	0.0035	0.18%
B 249.677†	1947.9	0.9619	mg/L	0.01276	0.9619 mg/L	0.01276	1.33%
Ba 233.527†	7362.8	0.9885	mg/L	0.01166	0.9885 mg/L	0.01166	1.18%
Be 313.042†	270671.6	0.9722	mg/L	0.01014	0.9722 mg/L	0.01014	1.04%
Ca 317.933†	18240.7	1.949	mg/L	0.0214	1.949 mg/L	0.0214	1.10%
Cd 228.802†	51615.1	1.019	mg/L	0.0074	1.019 mg/L	0.0074	0.72%
Co 228.616†	46792.8	0.9734	mg/L	0.00499	0.9734 mg/L	0.00499	0.51%
Cr 267.716†	3737.6	0.9966	mg/L	0.01091	0.9966 mg/L	0.01091	1.10%
Cu 324.752†	206119.5	1.044	mg/L	0.0062	1.044 mg/L	0.0062	0.59%
Fe 273.955†	2188.6	1.912	mg/L	0.0268	1.912 mg/L	0.0268	1.40%
K 766.490†	49914.8	18.55	mg/L	0.244	18.55 mg/L	0.244	1.32%
Mg 279.077†	2088.4	1.897	mg/L	0.0252	1.897 mg/L	0.0252	1.33%
Mn 257.610†	36641.1	0.9966	mg/L	0.01055	0.9966 mg/L	0.01055	1.06%
Mo 202.031†	10154.1	0.8905	mg/L	0.00309	0.8905 mg/L	0.00309	0.35%
Na 589.592†	281010.6	48.74	mg/L	0.555	48.74 mg/L	0.555	1.14%
Na 330.237†	1094.2	46.18	mg/L	0.076	46.18 mg/L	0.076	0.16%
Ni 231.604†	1695.5	0.9868	mg/L	0.00879	0.9868 mg/L	0.00879	0.89%
Pb 220.353†	14420.2	1.976	mg/L	0.0108	1.976 mg/L	0.0108	0.55%
Sb 206.836†	3988.7	1.929	mg/L	0.0079	1.929 mg/L	0.0079	0.41%
Se 196.026†	1907.1	1.958	mg/L	0.0097	1.958 mg/L	0.0097	0.50%
Si 288.158†	2570.0	2.037	mg/L	0.0219	2.037 mg/L	0.0219	1.07%
Sn 189.927†	3221.5	0.8262	mg/L	0.00264	0.8262 mg/L	0.00264	0.32%
Sr 421.552†	461838.4	0.9917	mg/L	0.01202	0.9917 mg/L	0.01202	1.21%
Ti 334.903†	18526.1	0.9120	mg/L	0.00983	0.9120 mg/L	0.00983	1.08%
Tl 190.801†	3744.4	1.928	mg/L	0.0086	1.928 mg/L	0.0086	0.44%
V 292.402†	109384.0	0.9848	mg/L	0.01068	0.9848 mg/L	0.01068	1.08%
Zn 206.200†	2175.3	0.9861	mg/L	0.01042	0.9861 mg/L	0.01042	1.06%

Sequence No.: 2

Sample ID: CB

3

Autosampler Location: 1

Date Collected: 8/11/2010 2:57:42 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	1983669.9	111.5	%	1.27				1.14%
ScR 361.383	226386.8	110.4	%	0.73				0.66%
Ag 328.068†	19.1	0.00011	mg/L	0.000200	0.00011	mg/L	0.000200	187.02%
Al 308.215†	-3.2	-0.00236	mg/L	0.001679	-0.00236	mg/L	0.001679	71.08%
As 188.979†	0.4	0.00027	mg/L	0.000777	0.00027	mg/L	0.000777	292.26%
B 249.677†	4.1	0.00202	mg/L	0.002376	0.00202	mg/L	0.002376	117.50%
Ba 233.527†	2.5	0.00034	mg/L	0.000721	0.00034	mg/L	0.000721	212.15%
Be 313.042†	39.7	0.00014	mg/L	0.000060	0.00014	mg/L	0.000060	42.42%
Ca 317.933†	-1.2	-0.00013	mg/L	0.003671	-0.00013	mg/L	0.003671	>999.9%
Cd 228.802†	-2.1	-0.00004	mg/L	0.000075	-0.00004	mg/L	0.000075	172.86%
Co 228.616†	8.3	0.00017	mg/L	0.000132	0.00017	mg/L	0.000132	76.24%
Cr 267.716†	3.6	0.00096	mg/L	0.000692	0.00096	mg/L	0.000692	72.28%
Cu 324.752†	-233.0	-0.00118	mg/L	0.000050	-0.00118	mg/L	0.000050	4.20%
Fe 273.955†	-1.6	-0.00141	mg/L	0.003810	-0.00141	mg/L	0.003810	270.53%
K 766.490†	-9.7	-0.00360	mg/L	0.018846	-0.00360	mg/L	0.018846	522.83%
Mg 279.077†	2.9	0.00264	mg/L	0.002505	0.00264	mg/L	0.002505	95.04%
Mn 257.610†	3.6	0.00010	mg/L	0.000105	0.00010	mg/L	0.000105	106.14%
Mo 202.031†	3.5	0.00031	mg/L	0.000225	0.00031	mg/L	0.000225	72.65%
Na 589.592†	202.9	0.03519	mg/L	0.004584	0.03519	mg/L	0.004584	13.02%
Na 330.237†	-0.8	-0.03432	mg/L	0.325610	-0.03432	mg/L	0.325610	948.62%
Ni 231.604†	-4.9	-0.00282	mg/L	0.001229	-0.00282	mg/L	0.001229	43.55%
Pb 220.353†	1.6	0.00022	mg/L	0.000971	0.00022	mg/L	0.000971	448.40%
Sb 206.836†	-1.4	-0.00066	mg/L	0.001159	-0.00066	mg/L	0.001159	174.57%
Se 196.026†	4.0	0.00408	mg/L	0.003374	0.00408	mg/L	0.003374	82.66%
Si 288.158†	2.4	0.00189	mg/L	0.002057	0.00189	mg/L	0.002057	108.55%
Sn 189.927†	7.9	0.00203	mg/L	0.000928	0.00203	mg/L	0.000928	45.74%
Sr 421.552†	-9.9	-0.00002	mg/L	0.000071	-0.00002	mg/L	0.000071	334.09%
Ti 334.903†	3.2	0.00016	mg/L	0.000608	0.00016	mg/L	0.000608	384.69%
Tl 190.801†	1.7	0.00086	mg/L	0.002390	0.00086	mg/L	0.002390	277.12%
V 292.402†	29.1	0.00027	mg/L	0.000406	0.00027	mg/L	0.000406	152.30%
Zn 206.200†	-1.5	-0.00067	mg/L	0.000756	-0.00067	mg/L	0.000756	112.50%

Sequence No.: 3
Sample ID: RG80 MB SWC

Autosampler Location: 24
Date Collected: 8/11/2010 3:03:40 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 MB SWC

Analyte Back Pressure Flow
All 178.0 kPa 0.55 L/min

Mean Data: RG80 MB SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2025063.1	113.9	%	0.98				0.86%
ScR 361.383	229892.2	112.1	%	1.25				1.11%
Ag 328.068†	-26.4	-0.00015	mg/L	0.000099	-0.00030	mg/L	0.000197	66.86%
Al 308.215†	9.8	0.00711	mg/L	0.007089	0.01421	mg/L	0.014177	99.75%
As 188.979†	-1.2	-0.00083	mg/L	0.002027	-0.00167	mg/L	0.004055	243.27%
B 249.677†	-8.0	-0.00396	mg/L	0.001101	-0.00793	mg/L	0.002201	27.77%
Ba 233.527†	6.1	0.00082	mg/L	0.000294	0.00164	mg/L	0.000587	35.75%
Be 313.042†	0.4	0.00000	mg/L	0.000051	0.00000	mg/L	0.000103	>999.9%
Ca 317.933†	82.1	0.00878	mg/L	0.000973	0.01755	mg/L	0.001946	11.09%
Cd 228.802†	-5.3	-0.00010	mg/L	0.000050	-0.00021	mg/L	0.000100	47.96%
Co 228.616†	9.1	0.00019	mg/L	0.000077	0.00038	mg/L	0.000154	40.59%
Cr 267.716†	1.5	0.00040	mg/L	0.001879	0.00080	mg/L	0.003758	469.36%
Cu 324.752†	-410.8	-0.00208	mg/L	0.000019	-0.00416	mg/L	0.000038	0.92%
Fe 273.955†	0.2	0.00020	mg/L	0.000890	0.00040	mg/L	0.001779	449.72%
K 766.490†	-57.7	-0.02144	mg/L	0.010436	-0.04287	mg/L	0.020873	48.69%
Mg 279.077†	5.8	0.00523	mg/L	0.001226	0.01046	mg/L	0.002451	23.44%
Mn 257.610†	1.3	0.00003	mg/L	0.000024	0.00007	mg/L	0.000048	68.87%
Mo 202.031†	3.5	0.00031	mg/L	0.000127	0.00062	mg/L	0.000255	41.10%
Na 589.592†	86.2	0.01495	mg/L	0.005020	0.02991	mg/L	0.010039	33.57%
Na 330.237†	8.3	0.3513	mg/L	0.38609	0.7026	mg/L	0.77218	109.91%
Ni 231.604†	-2.2	-0.00131	mg/L	0.001069	-0.00262	mg/L	0.002139	81.68%
Pb 220.353†	-4.0	-0.00055	mg/L	0.000456	-0.00109	mg/L	0.000911	83.53%
Sb 206.836†	-3.3	-0.00161	mg/L	0.001009	-0.00322	mg/L	0.002018	62.58%
Se 196.026†	4.2	0.00429	mg/L	0.003008	0.00858	mg/L	0.006015	70.14%
Si 288.158†	3.2	0.00251	mg/L	0.006864	0.00502	mg/L	0.013729	273.48%
Sn 189.927†	7.2	0.00185	mg/L	0.000338	0.00369	mg/L	0.000677	18.32%
Sr 421.552†	-44.9	-0.00010	mg/L	0.000102	-0.00019	mg/L	0.000205	106.19%
Ti 334.903†	5.4	0.00027	mg/L	0.000407	0.00053	mg/L	0.000814	153.13%
Tl 190.801†	3.7	0.00192	mg/L	0.001758	0.00385	mg/L	0.003516	91.37%
V 292.402†	-4.7	-0.00004	mg/L	0.000091	-0.00007	mg/L	0.000182	243.16%
Zn 206.200†	-1.2	-0.00053	mg/L	0.000820	-0.00105	mg/L	0.001641	156.18%

Sequence No.: 4

Sample ID: RG80 D SWC

Autosampler Location: 25

Date Collected: 8/11/2010 3:09:40 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 D SWC

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: RG80 D SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	2039248.6		114.7 %	0.36				0.31%
ScR 361.383	231631.5		113.0 %	0.87				0.77%
Ag 328.068†	-582.3	0.00168	mg/L	0.000108	0.00337	mg/L	0.000215	6.40%
Al 308.215†	31323.4	22.77	mg/L	0.010	45.54	mg/L	0.019	0.04%
As 188.979†	15.5	0.01289	mg/L	0.002308	0.02578	mg/L	0.004616	17.91%
B 249.677†	75.5	0.03722	mg/L	0.000140	0.07445	mg/L	0.000281	0.38%
Ba 233.527†	2074.4	0.2722	mg/L	0.00184	0.5444	mg/L	0.00368	0.68%
Be 313.042†	174.3	0.00021	mg/L	0.000019	0.00042	mg/L	0.000039	9.24%
Ca 317.933†	202940.3	21.68	mg/L	0.021	43.36	mg/L	0.043	0.10%
Cd 228.802†	948.9	0.01882	mg/L	0.000173	0.03763	mg/L	0.000346	0.92%
Co 228.616†	1096.0	0.02036	mg/L	0.000151	0.04072	mg/L	0.000301	0.74%
Cr 267.716†	928.9	0.2497	mg/L	0.00172	0.4994	mg/L	0.00344	0.69%
Cu 324.752†	207196.7	1.061	mg/L	0.0072	2.123	mg/L	0.0145	0.68%
Fe 273.955†	154323.9	134.8	mg/L	0.55	269.7	mg/L	1.10	0.41%
K 766.490†	3153.6	1.172	mg/L	0.0229	2.344	mg/L	0.0459	1.96%
Mg 279.077†	8564.3	7.689	mg/L	0.0695	15.38	mg/L	0.139	0.90%
Mn 257.610†	35956.2	0.9774	mg/L	0.00069	1.955	mg/L	0.0014	0.07%
Mo 202.031†	261.9	0.02236	mg/L	0.000403	0.04471	mg/L	0.000805	1.80%
Na 589.592†	7987.0	1.385	mg/L	0.0030	2.771	mg/L	0.0060	0.22%
Na 330.237†	88.4	0.9075	mg/L	0.27594	1.815	mg/L	0.5519	30.41%
Ni 231.604†	220.8	0.1284	mg/L	0.00163	0.2569	mg/L	0.00326	1.27%
Pb 220.353†	4167.4	0.5680	mg/L	0.00077	1.136	mg/L	0.0015	0.14%
Sb 206.836†	68.0	0.00498	mg/L	0.002109	0.00996	mg/L	0.004219	42.35%
Se 196.026†	-36.3	-0.01102	mg/L	0.003388	-0.02204	mg/L	0.006777	30.74%
Si 288.158†	4786.8	3.790	mg/L	0.0313	7.581	mg/L	0.0627	0.83%
Sn 189.927†	91.4	0.02534	mg/L	0.001271	0.05067	mg/L	0.002542	5.02%
Sr 421.552†	51796.0	0.1112	mg/L	0.00042	0.2224	mg/L	0.00084	0.38%
Ti 334.903†	28063.4	1.382	mg/L	0.0020	2.765	mg/L	0.0040	0.15%
Tl 190.801†	-20.3	-0.01510	mg/L	0.001692	-0.03019	mg/L	0.003383	11.21%
V 292.402†	17313.0	0.1390	mg/L	0.00136	0.2779	mg/L	0.00271	0.98%
Zn 206.200†	20723.2	9.401	mg/L	0.0238	18.80	mg/L	0.048	0.25%

Sequence No.: 5
Sample ID: RG80 G SWC

Autosampler Location: 26
Date Collected: 8/11/2010 3:15:40 PM
Data Type: Original

Dilution: 5X

Nebulizer Parameters: RG80 G SWC

Analyte Back Pressure Flow
All 178.0 kPa 0.55 L/min

Mean Data: RG80 G SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2023705.7	113.8	%	0.35			0.31%
ScR 361.383	233607.6	114.0	%	0.64			0.56%
Ag 328.068†	-291.8	0.00266	mg/L	0.000094	0.01330 mg/L	0.000471	3.55%
Al 308.215†	68226.5	49.59	mg/L	0.036	248.0 mg/L	0.18	0.07%
As 188.979†	28.3	0.02491	mg/L	0.000651	0.1245 mg/L	0.00326	2.61%
B 249.677†	81.1	0.03983	mg/L	0.002111	0.1991 mg/L	0.01056	5.30%
Ba 233.527†	6023.7	0.8029	mg/L	0.00458	4.015 mg/L	0.0229	0.57%
Be 313.042†	363.4	0.00046	mg/L	0.000007	0.00230 mg/L	0.000034	1.49%
Ca 317.933†	366819.6	39.19	mg/L	0.077	195.9 mg/L	0.38	0.20%
Cd 228.802†	1231.1	0.02447	mg/L	0.000205	0.1223 mg/L	0.00102	0.84%
Co 228.616†	2539.9	0.04694	mg/L	0.000026	0.2347 mg/L	0.00013	0.06%
Cr 267.716†	2522.6	0.6739	mg/L	0.00369	3.369 mg/L	0.0185	0.55%
Cu 324.752†	177418.0	0.9093	mg/L	0.00781	4.547 mg/L	0.0390	0.86%
Fe 273.955†	145739.9	127.3	mg/L	0.07	636.7 mg/L	0.36	0.06%
K 766.490†	8051.4	2.992	mg/L	0.0097	14.96 mg/L	0.048	0.32%
Mg 279.077†	21729.5	19.64	mg/L	0.121	98.18 mg/L	0.604	0.62%
Mn 257.610†	87997.9	2.392	mg/L	0.0007	11.96 mg/L	0.004	0.03%
Mo 202.031†	629.0	0.05473	mg/L	0.000619	0.2736 mg/L	0.00309	1.13%
Na 589.592†	14178.5	2.459	mg/L	0.0062	12.30 mg/L	0.031	0.25%
Na 330.237†	91.5	2.389	mg/L	0.0778	11.94 mg/L	0.389	3.26%
Ni 231.604†	670.3	0.3899	mg/L	0.00643	1.949 mg/L	0.0322	1.65%
Pb 220.353†	5099.5	0.7047	mg/L	0.00288	3.524 mg/L	0.0144	0.41%
Sb 206.836†	70.6	-0.00266	mg/L	0.000787	-0.01331 mg/L	0.003937	29.57%
Se 196.026†	-33.4	-0.00560	mg/L	0.014531	-0.02799 mg/L	0.072657	259.58%
Si 288.158†	3286.3	2.605	mg/L	0.0101	13.02 mg/L	0.050	0.39%
Sn 189.927†	112.0	0.03263	mg/L	0.000668	0.1632 mg/L	0.00334	2.05%
Sr 421.552†	86857.8	0.1865	mg/L	0.00010	0.9325 mg/L	0.00048	0.05%
Ti 334.903†	67269.4	3.314	mg/L	0.0004	16.57 mg/L	0.002	0.01%
Tl 190.801†	-7.6	-0.01469	mg/L	0.003228	-0.07347 mg/L	0.016142	21.97%
V 292.402†	34934.2	0.2982	mg/L	0.00283	1.491 mg/L	0.0142	0.95%
Zn 206.200†	13367.0	6.065	mg/L	0.0364	30.32 mg/L	0.182	0.60%

Sequence No.: 6
Sample ID: RG80 H SWC

Autosampler Location: 27
Date Collected: 8/11/2010 3:21:40 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 H SWC

Analyte Back Pressure Flow
All 178.0 kPa 0.55 L/min

Mean Data: RG80 H SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2007921.9	112.9	%	1.35				1.20%
ScR 361.383	236240.4	115.2	%	1.46				1.27%
Ag 328.068†	1233.8	0.01451	mg/L	0.000427	0.02902	mg/L	0.000855	2.94%
Al 308.215†	208889.1	151.9	mg/L	0.59	303.7	mg/L	1.19	0.39%
As 188.979†	344.3	0.2399	mg/L	0.00236	0.4798	mg/L	0.00473	0.99%
B 249.677†	94.6	0.04616	mg/L	0.002093	0.09231	mg/L	0.004187	4.54%
Ba 233.527†	7835.3	1.042	mg/L	0.0151	2.084	mg/L	0.0301	1.45%
Be 313.042†	770.7	0.00141	mg/L	0.000119	0.00282	mg/L	0.000238	8.42%
Ca 317.933†	350737.9	37.47	mg/L	0.093	74.94	mg/L	0.187	0.25%
Cd 228.802†	4126.7	0.08160	mg/L	0.001057	0.1632	mg/L	0.00211	1.30%
Co 228.616†	4696.1	0.08796	mg/L	0.001176	0.1759	mg/L	0.00235	1.34%
Cr 267.716†	5903.9	1.577	mg/L	0.0250	3.154	mg/L	0.0500	1.58%
Cu 324.752†	994115.7	5.054	mg/L	0.0085	10.11	mg/L	0.017	0.17%
Fe 273.955†	243692.2	212.9	mg/L	1.04	425.9	mg/L	2.09	0.49%
K 766.490†	8737.5	3.247	mg/L	0.0386	6.494	mg/L	0.0772	1.19%
Mg 279.077†	38451.1	34.75	mg/L	0.066	69.51	mg/L	0.132	0.19%
Mn 257.610†	99107.8	2.696	mg/L	0.0057	5.392	mg/L	0.0115	0.21%
Mo 202.031†	947.2	0.08231	mg/L	0.000928	0.1646	mg/L	0.00186	1.13%
Na 589.592†	20711.0	3.593	mg/L	0.0125	7.185	mg/L	0.0250	0.35%
Na 330.237†	130.2	3.251	mg/L	0.1114	6.501	mg/L	0.2229	3.43%
Ni 231.604†	1567.6	0.9119	mg/L	0.01101	1.824	mg/L	0.0220	1.21%
Pb 220.353†	79911.3	10.97	mg/L	0.015	21.95	mg/L	0.030	0.14%
Sb 206.836†	319.0	0.07003	mg/L	0.003353	0.1401	mg/L	0.00671	4.79%
Se 196.026†	-84.3	-0.02379	mg/L	0.009168	-0.04758	mg/L	0.018336	38.54%
Si 288.158†	7781.7	6.166	mg/L	0.0872	12.33	mg/L	0.174	1.41%
Sn 189.927†	558.6	0.1483	mg/L	0.00058	0.2965	mg/L	0.00117	0.39%
Sr 421.552†	101557.9	0.2181	mg/L	0.00093	0.4361	mg/L	0.00186	0.43%
Ti 334.903†	112089.4	5.523	mg/L	0.0130	11.05	mg/L	0.026	0.24%
Tl 190.801†	-15.0	-0.02411	mg/L	0.001081	-0.04821	mg/L	0.002162	4.48%
V 292.402†	55930.5	0.4791	mg/L	0.00112	0.9583	mg/L	0.00225	0.23%
Zn 206.200†	22074.4	10.02	mg/L	0.156	20.03	mg/L	0.312	1.56%

Sequence No.: 7

Autosampler Location: 28

Sample ID: RG80 O SWC

Date Collected: 8/11/2010 3:27:29 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 O SWC

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: RG80 O SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2050989.5	115.3	%	0.26			0.23%
ScR 361.383	242045.3	118.1	%	0.19			0.16%
Ag 328.068†	-828.7	0.00188	mg/L	0.000059	0.00376	mg/L	0.000118 3.15%
Al 308.215†	119336.2	86.75	mg/L	0.309	173.5	mg/L	0.62 0.36%
As 188.979†	41.1	0.03824	mg/L	0.001857	0.07647	mg/L	0.003713 4.86%
B 249.677†	201.6	0.09928	mg/L	0.001565	0.1986	mg/L	0.00313 1.58%
Ba 233.527†	9337.1	1.245	mg/L	0.0054	2.490	mg/L	0.0108 0.43%
Be 313.042†	572.5	0.00084	mg/L	0.000029	0.00168	mg/L	0.000058 3.46%
Ca 317.933†	652655.8	69.73	mg/L	0.133	139.5	mg/L	0.27 0.19%
Cd 228.802†	2538.5	0.05040	mg/L	0.000157	0.1008	mg/L	0.00031 0.31%
Co 228.616†	4047.1	0.07383	mg/L	0.000217	0.1477	mg/L	0.00043 0.29%
Cr 267.716†	3646.2	0.9737	mg/L	0.00373	1.947	mg/L	0.0075 0.38%
Cu 324.752†	218325.7	1.122	mg/L	0.0045	2.243	mg/L	0.0091 0.40%
Fe 273.955†	219552.7	191.8	mg/L	1.16	383.7	mg/L	2.31 0.60%
K 766.490†	12117.4	4.503	mg/L	0.0125	9.006	mg/L	0.0250 0.28%
Mg 279.077†	45370.8	41.04	mg/L	0.111	82.08	mg/L	0.223 0.27%
Mn 257.610†	104145.4	2.831	mg/L	0.0098	5.661	mg/L	0.0196 0.35%
Mo 202.031†	764.1	0.06652	mg/L	0.000842	0.1330	mg/L	0.00168 1.27%
Na 589.592†	25858.6	4.485	mg/L	0.0219	8.971	mg/L	0.0438 0.49%
Na 330.237†	137.4	4.546	mg/L	0.2829	9.092	mg/L	0.5658 6.22%
Ni 231.604†	959.1	0.5579	mg/L	0.00349	1.116	mg/L	0.0070 0.63%
Pb 220.353†	6616.4	0.9192	mg/L	0.00478	1.838	mg/L	0.0096 0.52%
Sb 206.836†	119.2	0.00102	mg/L	0.003621	0.00205	mg/L	0.007243 353.41%
Se 196.026†	-65.8	-0.02113	mg/L	0.003613	-0.04226	mg/L	0.007226 17.10%
Si 288.158†	7718.1	6.116	mg/L	0.0196	12.23	mg/L	0.039 0.32%
Sn 189.927†	114.3	0.03644	mg/L	0.001201	0.07288	mg/L	0.002402 3.30%
Sr 421.552†	150751.6	0.3237	mg/L	0.00150	0.6474	mg/L	0.00299 0.46%
Ti 334.903†	118653.5	5.846	mg/L	0.0145	11.69	mg/L	0.029 0.25%
Tl 190.801†	-13.2	-0.02337	mg/L	0.002500	-0.04674	mg/L	0.005001 10.70%
V 292.402†	49583.9	0.4209	mg/L	0.00209	0.8419	mg/L	0.00419 0.50%
Zn 206.200†	14164.8	6.428	mg/L	0.0294	12.86	mg/L	0.059 0.46%

Sequence No.: 8

Autosampler Location: 29

Sample ID: RG80 P SWC

Date Collected: 8/11/2010 3:33:31 PM

Dilution: 2X

Data Type: Original

Nebulizer Parameters: RG80 P SWC

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: RG80 P SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2066344.2	116.2	%	0.38				0.33%
ScR 361.383	238427.5	116.3	%	0.30				0.26%
Ag 328.068†	-708.8	0.00286	mg/L	0.000214	0.00571	mg/L	0.000428	7.50%
Al 308.215†	116290.2	84.53	mg/L	0.202	169.1	mg/L	0.40	0.24%
As 188.979†	91.4	0.07078	mg/L	0.002881	0.1416	mg/L	0.00576	4.07%
B 249.677†	71.1	0.03462	mg/L	0.004766	0.06925	mg/L	0.009532	13.77%
Ba 233.527†	5583.6	0.7407	mg/L	0.00163	1.481	mg/L	0.0033	0.22%
Be 313.042†	610.7	0.00104	mg/L	0.000020	0.00209	mg/L	0.000040	1.90%
Ca 317.933†	380708.7	40.67	mg/L	0.008	81.34	mg/L	0.015	0.02%
Cd 228.802†	1571.9	0.03126	mg/L	0.000200	0.06252	mg/L	0.000399	0.64%
Co 228.616†	4103.0	0.07602	mg/L	0.000412	0.1520	mg/L	0.00082	0.54%
Cr 267.716†	4249.0	1.135	mg/L	0.0007	2.270	mg/L	0.0014	0.06%
Cu 324.752†	205838.9	1.059	mg/L	0.0044	2.117	mg/L	0.0087	0.41%
Fe 273.955†	219318.4	191.6	mg/L	1.80	383.3	mg/L	3.61	0.94%
K 766.490†	10347.8	3.846	mg/L	0.0179	7.691	mg/L	0.0358	0.47%
Mg 279.077†	41600.8	37.62	mg/L	0.078	75.24	mg/L	0.156	0.21%
Mn 257.610†	86387.2	2.348	mg/L	0.0041	4.697	mg/L	0.0082	0.17%
Mo 202.031†	469.9	0.04075	mg/L	0.000116	0.08150	mg/L	0.000232	0.28%
Na 589.592†	17343.3	3.008	mg/L	0.0154	6.017	mg/L	0.0307	0.51%
Na 330.237†	94.9	3.044	mg/L	0.2689	6.088	mg/L	0.5379	8.84%
Ni 231.604†	1379.7	0.8025	mg/L	0.00157	1.605	mg/L	0.0031	0.20%
Pb 220.353†	16579.5	2.284	mg/L	0.0048	4.567	mg/L	0.0095	0.21%
Sb 206.836†	131.7	0.00444	mg/L	0.002608	0.00888	mg/L	0.005216	58.76%
Se 196.026†	-59.0	-0.01451	mg/L	0.006671	-0.02903	mg/L	0.013343	45.96%
Si 288.158†	9492.0	7.520	mg/L	0.0042	15.04	mg/L	0.008	0.06%
Sn 189.927†	210.9	0.05935	mg/L	0.001202	0.1187	mg/L	0.00240	2.03%
Sr 421.552†	115592.8	0.2482	mg/L	0.00098	0.4964	mg/L	0.00195	0.39%
Ti 334.903†	107954.6	5.319	mg/L	0.0066	10.64	mg/L	0.013	0.12%
Tl 190.801†	-15.1	-0.02280	mg/L	0.001509	-0.04560	mg/L	0.003017	6.62%
V 292.402†	46963.7	0.3989	mg/L	0.00085	0.7977	mg/L	0.00169	0.21%
Zn 206.200†	12674.0	5.751	mg/L	0.0114	11.50	mg/L	0.023	0.20%

Sequence No.: 9
 Sample ID: RG80 CDUP SWC

Autosampler Location: 30
 Date Collected: 8/11/2010 3:39:32 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 CDUP SWC

Analyte Back Pressure Flow
 All 179.0 kPa 0.55 L/min

Mean Data: RG80 CDUP SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
ScA 357.253	2057522.2	115.7 %		1.12			0.97%
ScR 361.383	234913.5	114.6 %		0.23			0.20%
Ag 328.068†	325.3	0.00624 mg/L		0.000345	0.01248 mg/L	0.000691	5.53%
Al 308.215†	89865.5	65.32 mg/L		0.043	130.6 mg/L	0.09	0.07%
As 188.979†	31.8	0.03020 mg/L		0.003419	0.06039 mg/L	0.006838	11.32%
B 249.677†	120.1	0.05916 mg/L		0.000569	0.1183 mg/L	0.00114	0.96%
Ba 233.527†	4416.6	0.5870 mg/L		0.00121	1.174 mg/L	0.0024	0.21%
Be 313.042†	459.8	0.00073 mg/L		0.000036	0.00147 mg/L	0.000072	4.93%
Ca 317.933†	345794.6	36.94 mg/L		0.043	73.88 mg/L	0.086	0.12%
Cd 228.802†	1206.0	0.02393 mg/L		0.000292	0.04787 mg/L	0.000584	1.22%
Co 228.616†	2801.6	0.05009 mg/L		0.000370	0.1002 mg/L	0.00074	0.74%
Cr 267.716†	1821.9	0.4870 mg/L		0.00254	0.9741 mg/L	0.00508	0.52%
Cu 324.752†	147131.0	0.7556 mg/L		0.00269	1.511 mg/L	0.0054	0.36%
Fe 273.955†	146711.9	128.2 mg/L		0.17	256.4 mg/L	0.35	0.13%
K 766.490†	9954.8	3.700 mg/L		0.0333	7.399 mg/L	0.0667	0.90%
Mg 279.077†	24968.4	22.57 mg/L		0.037	45.14 mg/L	0.074	0.16%
Mn 257.610†	71899.5	1.954 mg/L		0.0004	3.909 mg/L	0.0008	0.02%
Mo 202.031†	351.5	0.03028 mg/L		0.000130	0.06056 mg/L	0.000260	0.43%
Na 589.592†	18873.9	3.274 mg/L		0.0079	6.548 mg/L	0.0157	0.24%
Na 330.237†	115.9	3.100 mg/L		0.1986	6.201 mg/L	0.3971	6.40%
Ni 231.604†	487.2	0.2834 mg/L		0.00116	0.5668 mg/L	0.00231	0.41%
Pb 220.353†	6752.3	0.9352 mg/L		0.01031	1.870 mg/L	0.0206	1.10%
Sb 206.836†	76.4	0.00148 mg/L		0.001058	0.00296 mg/L	0.002115	71.40%
Se 196.026†	-38.6	-0.00709 mg/L		0.003412	-0.01419 mg/L	0.006823	48.08%
Si 288.158†	6218.6	4.926 mg/L		0.0082	9.852 mg/L	0.0163	0.17%
Sn 189.927†	113.4	0.03349 mg/L		0.001276	0.06698 mg/L	0.002551	3.81%
Sr 421.552†	96265.7	0.2067 mg/L		0.00022	0.4134 mg/L	0.00044	0.11%
Ti 334.903†	94937.6	4.678 mg/L		0.0008	9.356 mg/L	0.0017	0.02%
Tl 190.801†	-2.1	-0.01366 mg/L		0.005409	-0.02731 mg/L	0.010818	39.61%
V 292.402†	37266.8	0.3163 mg/L		0.00120	0.6326 mg/L	0.00240	0.38%
Zn 206.200†	17705.9	8.033 mg/L		0.0234	16.07 mg/L	0.047	0.29%

Sequence No.: 10
Sample ID: RG80 C SWC

Autosampler Location: 31
Date Collected: 8/11/2010 3:45:33 PM
Data Type: Original

Dilution: 2X

DR

Nebulizer Parameters: RG80 C SWC

Analyte Back Pressure Flow
All 179.0 kPa 0.55 L/min

Mean Data: RG80 C SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2023963.2	113.8	%	0.33				0.29%
ScR 361.383	229677.2	112.0	%	5.86				5.23%
Ag 328.068†	30.3	0.00503	mg/L	0.000220	0.01005	mg/L	0.000440	4.38%
Al 308.215†	96909.4	70.45	mg/L	4.174	140.9	mg/L	8.35	5.93%
As 188.979†	34.0	0.03069	mg/L	0.001881	0.06137	mg/L	0.003762	6.13%
B 249.677†	117.2	0.05771	mg/L	0.005300	0.1154	mg/L	0.01060	9.18%
Ba 233.527†	4545.8	0.6038	mg/L	0.03695	1.208	mg/L	0.0739	6.12%
Be 313.042†	481.5	0.00083	mg/L	0.000205	0.00166	mg/L	0.000410	24.66%
Ca 317.933†	408156.3	43.60	mg/L	2.556	87.21	mg/L	5.111	5.86%
Cd 228.802†	1125.8	0.02234	mg/L	0.000114	0.04468	mg/L	0.000227	0.51%
Co 228.616†	2623.6	0.04720	mg/L	0.000567	0.09439	mg/L	0.001135	1.20%
Cr 267.716†	1740.1	0.4653	mg/L	0.02662	0.9306	mg/L	0.05325	5.72%
Cu 324.752†	128829.1	0.6641	mg/L	0.00276	1.328	mg/L	0.0055	0.42%
Fe 273.955†	161257.9	140.9	mg/L	8.70	281.8	mg/L	17.40	6.17%
K 766.490†	12332.4	4.583	mg/L	0.3093	9.166	mg/L	0.6186	6.75%
Mg 279.077†	27588.1	24.94	mg/L	1.479	49.88	mg/L	2.957	5.93%
Mn 257.610†	73430.9	1.996	mg/L	0.1183	3.992	mg/L	0.2366	5.93%
Mo 202.031†	309.0	0.02659	mg/L	0.000162	0.05318	mg/L	0.000325	0.61%
Na 589.592†	20661.0	3.584	mg/L	0.2297	7.168	mg/L	0.4593	6.41%
Na 330.237†	116.0	3.168	mg/L	0.2672	6.336	mg/L	0.5344	8.43%
Ni 231.604†	462.0	0.2687	mg/L	0.01293	0.5375	mg/L	0.02585	4.81%
Pb 220.353†	5785.0	0.8034	mg/L	0.00189	1.607	mg/L	0.0038	0.24%
Sb 206.836†	80.8	0.00002	mg/L	0.002245	0.00005	mg/L	0.004490	>999.9%
Se 196.026†	-44.6	-0.01013	mg/L	0.004297	-0.02027	mg/L	0.008594	42.41%
Si 288.158†	6533.8	5.176	mg/L	0.3040	10.35	mg/L	0.608	5.87%
Sn 189.927†	86.0	0.02671	mg/L	0.000655	0.05343	mg/L	0.001309	2.45%
Sr 421.552†	107998.2	0.2319	mg/L	0.01380	0.4638	mg/L	0.02760	5.95%
Ti 334.903†	85354.3	4.205	mg/L	0.2478	8.411	mg/L	0.4956	5.89%
Tl 190.801†	-11.0	-0.01748	mg/L	0.000791	-0.03496	mg/L	0.001583	4.53%
V 292.402†	36700.4	0.3100	mg/L	0.00343	0.6200	mg/L	0.00686	1.11%
Zn 206.200†	16240.2	7.368	mg/L	0.4233	14.74	mg/L	0.847	5.75%

Sequence No.: 11

Autosampler Location: 32

Sample ID: RG80 CSPK SWC

Date Collected: 8/11/2010 3:51:36 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 CSPK SWC

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: RG80 CSPK SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2048507.2	115.2	%	0.61				0.53%
ScR 361.383	239290.8	116.7	%	0.46				0.39%
Ag 328.068†	82671.3	0.4665	mg/L	0.00190	0.9330	mg/L	0.00379	0.41%
Al 308.215†	83658.0	60.80	mg/L	0.125	121.6	mg/L	0.25	0.21%
As 188.979†	2763.5	1.856	mg/L	0.0130	3.713	mg/L	0.0260	0.70%
B 249.677†	131.3	0.06328	mg/L	0.002480	0.1266	mg/L	0.00496	3.92%
Ba 233.527†	17611.7	2.359	mg/L	0.0108	4.717	mg/L	0.0216	0.46%
Be 313.042†	128719.5	0.4615	mg/L	0.00103	0.9230	mg/L	0.00207	0.22%
Ca 317.933†	408236.6	43.61	mg/L	0.098	87.23	mg/L	0.197	0.23%
Cd 228.802†	25050.9	0.4932	mg/L	0.00106	0.9864	mg/L	0.00212	0.22%
Co 228.616†	23871.1	0.4900	mg/L	0.00244	0.9799	mg/L	0.00488	0.50%
Cr 267.716†	3421.0	0.9134	mg/L	0.00459	1.827	mg/L	0.0092	0.50%
Cu 324.752†	250759.3	1.282	mg/L	0.0027	2.564	mg/L	0.0053	0.21%
Fe 273.955†	159834.4	139.7	mg/L	0.68	279.3	mg/L	1.35	0.49%
K 766.490†	31329.4	11.64	mg/L	0.054	23.29	mg/L	0.108	0.46%
Mg 279.077†	33046.8	29.89	mg/L	0.138	59.79	mg/L	0.276	0.46%
Mn 257.610†	87468.5	2.378	mg/L	0.0024	4.756	mg/L	0.0048	0.10%
Mo 202.031†	380.4	0.03278	mg/L	0.000741	0.06556	mg/L	0.001481	2.26%
Na 589.592†	71156.5	12.34	mg/L	0.007	24.69	mg/L	0.015	0.06%
Na 330.237†	329.1	11.95	mg/L	0.147	23.90	mg/L	0.294	1.23%
Ni 231.604†	1270.1	0.7380	mg/L	0.00486	1.476	mg/L	0.0097	0.66%
Pb 220.353†	19535.2	2.684	mg/L	0.0185	5.369	mg/L	0.0371	0.69%
Sb 206.836†	91.0	0.00132	mg/L	0.002883	0.00263	mg/L	0.005765	219.09%
Se 196.026†	1729.4	1.810	mg/L	0.0130	3.619	mg/L	0.0259	0.72%
Si 288.158†	6226.5	4.934	mg/L	0.0412	9.867	mg/L	0.0823	0.83%
Sn 189.927†	96.9	0.02954	mg/L	0.001150	0.05908	mg/L	0.002299	3.89%
Sr 421.552†	306594.2	0.6583	mg/L	0.00133	1.317	mg/L	0.0027	0.20%
Ti 334.903†	79721.3	3.928	mg/L	0.0014	7.855	mg/L	0.0028	0.04%
Tl 190.801†	3406.7	1.749	mg/L	0.0113	3.498	mg/L	0.0226	0.65%
V 292.402†	86815.5	0.7594	mg/L	0.00134	1.519	mg/L	0.0027	0.18%
Zn 206.200†	17490.8	7.936	mg/L	0.0431	15.87	mg/L	0.086	0.54%

Sequence No.: 12

Autosampler Location: 33

Sample ID: RH55 MBSPK SWC

Date Collected: 8/11/2010 3:57:28 PM

Dilution: 2X

Data Type: Original

Nebulizer Parameters: RH55 MBSPK SWC

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: RH55 MBSPK SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2093882.8	117.7	%	0.18				0.15%
ScR 361.383	242232.1	118.2	%	0.86				0.72%
Ag 328.068†	84497.4	0.4719	mg/L	0.00281	0.9438	mg/L	0.00562	0.60%
Al 308.215†	2625.1	1.902	mg/L	0.0306	3.803	mg/L	0.0612	1.61%
As 188.979†	2851.9	1.908	mg/L	0.0069	3.816	mg/L	0.0138	0.36%
B 249.677†	-12.0	-0.00744	mg/L	0.001797	-0.01488	mg/L	0.003593	24.15%
Ba 233.527†	13967.2	1.876	mg/L	0.0251	3.752	mg/L	0.0503	1.34%
Be 313.042†	133365.4	0.4790	mg/L	0.00086	0.9581	mg/L	0.00173	0.18%
Ca 317.933†	86617.8	9.254	mg/L	0.0255	18.51	mg/L	0.051	0.28%
Cd 228.802†	24504.1	0.4822	mg/L	0.00190	0.9643	mg/L	0.00379	0.39%
Co 228.616†	22319.2	0.4646	mg/L	0.00257	0.9291	mg/L	0.00513	0.55%
Cr 267.716†	1780.8	0.4746	mg/L	0.00595	0.9492	mg/L	0.01190	1.25%
Cu 324.752†	94512.0	0.4791	mg/L	0.00191	0.9583	mg/L	0.00383	0.40%
Fe 273.955†	2423.8	2.118	mg/L	0.0345	4.235	mg/L	0.0690	1.63%
K 766.490†	24257.9	9.015	mg/L	0.0238	18.03	mg/L	0.048	0.26%
Mg 279.077†	10104.7	9.165	mg/L	0.1221	18.33	mg/L	0.244	1.33%
Mn 257.610†	17808.5	0.4846	mg/L	0.00119	0.9692	mg/L	0.00237	0.24%
Mo 202.031†	10.4	0.00084	mg/L	0.000330	0.00168	mg/L	0.000660	39.27%
Na 589.592†	55283.4	9.589	mg/L	0.0076	19.18	mg/L	0.015	0.08%
Na 330.237†	232.5	9.631	mg/L	0.2560	19.26	mg/L	0.512	2.66%
Ni 231.604†	799.8	0.4644	mg/L	0.00599	0.9287	mg/L	0.01198	1.29%
Pb 220.353†	13859.2	1.899	mg/L	0.0103	3.798	mg/L	0.0206	0.54%
Sb 206.836†	4.4	-0.00480	mg/L	0.001384	-0.00961	mg/L	0.002769	28.82%
Se 196.026†	1873.2	1.924	mg/L	0.0107	3.849	mg/L	0.0214	0.56%
Si 288.158†	10.0	0.00963	mg/L	0.001150	0.01926	mg/L	0.002301	11.95%
Sn 189.927†	-14.9	-0.00306	mg/L	0.002884	-0.00612	mg/L	0.005768	94.32%
Sr 421.552†	222375.7	0.4775	mg/L	0.00144	0.9550	mg/L	0.00288	0.30%
Ti 334.903†	152.6	0.00705	mg/L	0.000320	0.01410	mg/L	0.000640	4.54%
Tl 190.801†	3642.0	1.882	mg/L	0.0084	3.763	mg/L	0.0169	0.45%
V 292.402†	53515.8	0.4792	mg/L	0.00280	0.9584	mg/L	0.00559	0.58%
Zn 206.200†	1059.6	0.4809	mg/L	0.00521	0.9618	mg/L	0.01041	1.08%

Sequence No.: 13

Sample ID: CV 4

Autosampler Location: 7

Date Collected: 8/11/2010 4:03:31 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2047902.8	115.2 %	0.72			0.63%
ScR 361.383	239715.3	116.9 %	0.41			0.35%
Ag 328.068†	166294.1	0.9286 mg/L	0.00918	0.9286 mg/L	0.00918	0.99%
Al 308.215†	2497.1	1.781 mg/L	0.0115	1.781 mg/L	0.0115	0.65%
As 188.979†	2827.6	1.892 mg/L	0.0049	1.892 mg/L	0.0049	0.26%
B 249.677†	1824.3	0.9008 mg/L	0.00778	0.9008 mg/L	0.00778	0.86%
Ba 233.527†	6948.7	0.9329 mg/L	0.00330	0.9329 mg/L	0.00330	0.35%
Be 313.042†	257820.1	0.9260 mg/L	0.00024	0.9260 mg/L	0.00024	0.03%
Ca 317.933†	17153.1	1.833 mg/L	0.0062	1.833 mg/L	0.0062	0.34%
Cd 228.802†	49642.6	0.9804 mg/L	0.00903	0.9804 mg/L	0.00903	0.92%
Co 228.616†	44946.0	0.9350 mg/L	0.00849	0.9350 mg/L	0.00849	0.91%
Cr 267.716†	3517.9	0.9381 mg/L	0.00421	0.9381 mg/L	0.00421	0.45%
Cu 324.752†	198338.9	1.005 mg/L	0.0103	1.005 mg/L	0.0103	1.02%
Fe 273.955†	2063.1	1.802 mg/L	0.0040	1.802 mg/L	0.0040	0.22%
K 766.490†	47441.1	17.63 mg/L	0.046	17.63 mg/L	0.046	0.26%
Mg 279.077†	1975.6	1.795 mg/L	0.0051	1.795 mg/L	0.0051	0.29%
Mn 257.610†	34959.5	0.9508 mg/L	0.00189	0.9508 mg/L	0.00189	0.20%
Mo 202.031†	9735.7	0.8538 mg/L	0.00340	0.8538 mg/L	0.00340	0.40%
Na 589.592†	268915.4	46.65 mg/L	0.164	46.65 mg/L	0.164	0.35%
Na 330.237†	1044.0	44.06 mg/L	0.149	44.06 mg/L	0.149	0.34%
Ni 231.604†	1597.6	0.9298 mg/L	0.00189	0.9298 mg/L	0.00189	0.20%
Pb 220.353†	13861.3	1.900 mg/L	0.0184	1.900 mg/L	0.0184	0.97%
Sb 206.836†	3829.6	1.852 mg/L	0.0099	1.852 mg/L	0.0099	0.54%
Se 196.026†	1831.9	1.881 mg/L	0.0098	1.881 mg/L	0.0098	0.52%
Si 288.158†	2430.7	1.927 mg/L	0.0067	1.927 mg/L	0.0067	0.35%
Sn 189.927†	3106.6	0.7967 mg/L	0.00557	0.7967 mg/L	0.00557	0.70%
Sr 421.552†	439771.8	0.9443 mg/L	0.00193	0.9443 mg/L	0.00193	0.20%
Ti 334.903†	17687.5	0.8707 mg/L	0.00123	0.8707 mg/L	0.00123	0.14%
Tl 190.801†	3595.7	1.851 mg/L	0.0047	1.851 mg/L	0.0047	0.25%
V 292.402†	104654.4	0.9421 mg/L	0.00992	0.9421 mg/L	0.00992	1.05%
Zn 206.200†	2062.9	0.9351 mg/L	0.00422	0.9351 mg/L	0.00422	0.45%

Sequence No.: 14

Sample ID: CB 4

Autosampler Location: 1

Date Collected: 8/11/2010 4:09:32 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2078062.6	116.8	%	0.24			0.21%
ScR 361.383	234789.3	114.5	%	0.52			0.46%
Ag 328.068†	-3.4	-0.00002	mg/L	0.000081	-0.00002 mg/L	0.000081	422.30%
Al 308.215†	8.6	0.00624	mg/L	0.015576	0.00624 mg/L	0.015576	249.66%
As 188.979†	0.8	0.00053	mg/L	0.001092	0.00053 mg/L	0.001092	206.03%
B 249.677†	-8.6	-0.00427	mg/L	0.000864	-0.00427 mg/L	0.000864	20.24%
Ba 233.527†	0.9	0.00011	mg/L	0.000291	0.00011 mg/L	0.000291	254.69%
Be 313.042†	8.6	0.00003	mg/L	0.000045	0.00003 mg/L	0.000045	144.40%
Ca 317.933†	5.4	0.00057	mg/L	0.001824	0.00057 mg/L	0.001824	317.63%
Cd 228.802†	-5.8	-0.00012	mg/L	0.000038	-0.00012 mg/L	0.000038	32.55%
Co 228.616†	15.2	0.00032	mg/L	0.000129	0.00032 mg/L	0.000129	40.65%
Cr 267.716†	3.9	0.00104	mg/L	0.001224	0.00104 mg/L	0.001224	117.40%
Cu 324.752†	-75.3	-0.00038	mg/L	0.000343	-0.00038 mg/L	0.000343	90.05%
Fe 273.955†	3.2	0.00278	mg/L	0.000736	0.00278 mg/L	0.000736	26.44%
K 766.490†	-153.1	-0.05691	mg/L	0.012898	-0.05691 mg/L	0.012898	22.66%
Mg 279.077†	2.8	0.00255	mg/L	0.003433	0.00255 mg/L	0.003433	134.59%
Mn 257.610†	-1.0	-0.00003	mg/L	0.000128	-0.00003 mg/L	0.000128	449.50%
Mo 202.031†	3.5	0.00031	mg/L	0.000218	0.00031 mg/L	0.000218	70.27%
Na 589.592†	116.7	0.02025	mg/L	0.003381	0.02025 mg/L	0.003381	16.70%
Na 330.237†	8.1	0.3423	mg/L	0.56159	0.3423 mg/L	0.56159	164.07%
Ni 231.604†	1.6	0.00093	mg/L	0.002667	0.00093 mg/L	0.002667	288.14%
Pb 220.353†	1.3	0.00018	mg/L	0.000193	0.00018 mg/L	0.000193	106.20%
Sb 206.836†	-4.5	-0.00217	mg/L	0.001575	-0.00217 mg/L	0.001575	72.45%
Se 196.026†	4.9	0.00508	mg/L	0.001698	0.00508 mg/L	0.001698	33.43%
Si 288.158†	-2.6	-0.00204	mg/L	0.004310	-0.00204 mg/L	0.004310	210.80%
Sn 189.927†	5.4	0.00139	mg/L	0.000247	0.00139 mg/L	0.000247	17.74%
Sr 421.552†	-20.7	-0.00004	mg/L	0.000044	-0.00004 mg/L	0.000044	98.55%
Ti 334.903†	-1.0	-0.00005	mg/L	0.000934	-0.00005 mg/L	0.000934	>999.9%
Tl 190.801†	10.1	0.00521	mg/L	0.001883	0.00521 mg/L	0.001883	36.15%
V 292.402†	-2.1	-0.00001	mg/L	0.000311	-0.00001 mg/L	0.000311	>999.9%
Zn 206.200†	4.8	0.00219	mg/L	0.001038	0.00219 mg/L	0.001038	47.29%

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Analysis Begun

Start Time: 8/11/2010 4:14:41 PM

Plasma On Time: 8/11/2010 10:23:38 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101 Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0811B.sif

Batch ID:

Results Data Set: PE100811

Results Library: C:\pe\metals\Results\Results.mdb

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Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank 1

Date Collected: 8/11/2010 4:14:43 PM

Data Type: Original

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2087693.3	16448.05	0.79%	100.0	%
ScR 361.383	236827.4	1152.88	0.49%	100.0	%
Ag 328.068†	-177.8	56.74	31.91%	[0.00]	mg/L
Al 308.215†	-207.7	29.41	14.16%	[0.00]	mg/L
As 188.979†	17.4	3.47	19.91%	[0.00]	mg/L
B 249.677†	-11.7	4.83	41.23%	[0.00]	mg/L
Ba 233.527†	27.0	4.74	17.57%	[0.00]	mg/L
Be 313.042†	570.1	27.02	4.74%	[0.00]	mg/L
Ca 317.933†	-108.0	18.77	17.38%	[0.00]	mg/L
Cd 228.802†	214.6	3.06	1.42%	[0.00]	mg/L
Co 228.616†	-171.5	7.01	4.09%	[0.00]	mg/L
Cr 267.716†	-41.8	4.21	10.07%	[0.00]	mg/L
Cu 324.752†	1910.6	71.11	3.72%	[0.00]	mg/L
Fe 273.955†	-22.3	0.77	3.44%	[0.00]	mg/L
K 766.490†	3712.6	22.75	0.61%	[0.00]	mg/L
Mg 279.077†	-65.4	4.11	6.29%	[0.00]	mg/L
Mn 257.610†	79.0	4.32	5.47%	[0.00]	mg/L
Mo 202.031†	25.1	2.49	9.90%	[0.00]	mg/L
Na 589.592†	1775.6	15.95	0.90%	[0.00]	mg/L
Na 330.237†	-252.2	1.04	0.41%	[0.00]	mg/L
Ni 231.604†	-66.9	3.10	4.63%	[0.00]	mg/L
Pb 220.353†	296.5	4.46	1.50%	[0.00]	mg/L
Sb 206.836†	164.8	2.78	1.69%	[0.00]	mg/L
Se 196.026†	-67.7	4.00	5.91%	[0.00]	mg/L
Si 288.158†	20.7	4.03	19.45%	[0.00]	mg/L
Sn 189.927†	0.6	1.73	290.61%	[0.00]	mg/L
Sr 421.552†	488.3	7.65	1.57%	[0.00]	mg/L
Ti 334.903†	207.8	10.86	5.22%	[0.00]	mg/L
Tl 190.801†	-14.3	7.70	53.72%	[0.00]	mg/L
V 292.402†	552.3	14.40	2.61%	[0.00]	mg/L
Zn 206.200†	-7.5	2.38	31.92%	[0.00]	mg/L

Sequence No.: 2
Sample ID: STD2

Autosampler Location: 2
Date Collected: 8/11/2010 4:20:41 PM
Data Type: Original

Nebulizer Parameters: STD2

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: STD2

Analyte	Mean Corrected		RSD	Calib	
	Intensity	Std.Dev.		Conc.	Units
ScA 357.253	2097879.7	9713.78	0.46%	100.5	%
ScR 361.383	241519.7	503.09	0.21%	102.0	%
Ba 233.527†	80425.6	515.71	0.64%	[10]	mg/L
Cd 228.802†	553999.4	1391.72	0.25%	[10]	mg/L
Co 228.616†	526397.2	432.56	0.08%	[10]	mg/L
Cr 267.716†	40394.5	332.54	0.82%	[10]	mg/L
Cu 324.752†	2169805.1	2396.42	0.11%	[10]	mg/L
Mn 257.610†	397423.0	2694.90	0.68%	[10]	mg/L
V 292.402†	1230964.7	4263.30	0.35%	[10]	mg/L

Sequence No.: 3
Sample ID: STD3

Autosampler Location: 3
Date Collected: 8/11/2010 4:24:29 PM
Data Type: Original

Nebulizer Parameters: STD3

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: STD3

Analyte	Mean Corrected			Calib
	Intensity	Std.Dev.	RSD	
ScA 357.253	2067702.9	6213.01	0.30%	99.04 %
ScR 361.383	236797.8	1352.16	0.57%	99.99 %
Ag 328.068†	196727.8	874.45	0.44%	[1.0] mg/L
As 188.979†	16075.1	142.58	0.89%	[10] mg/L
B 249.677†	21702.1	99.10	0.46%	[10] mg/L
Be 313.042†	1466925.6	8434.67	0.57%	[5.0] mg/L
Na 589.592†	310841.8	1527.85	0.49%	[50] mg/L
Ni 231.604†	18458.5	99.67	0.54%	[10] mg/L
Pb 220.353†	79642.9	112.64	0.14%	[10] mg/L
Se 196.026†	10466.1	84.78	0.81%	[10] mg/L
Sr 421.552†	2486670.9	14033.51	0.56%	[5] mg/L
Tl 190.801†	20798.1	167.20	0.80%	[10] mg/L
Zn 206.200†	23642.0	176.09	0.74%	[10] mg/L

Sequence No.: 4
Sample ID: STD4

Autosampler Location: 4
Date Collected: 8/11/2010 4:29:35 PM
Data Type: Original

Nebulizer Parameters: STD4

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: STD4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	2118971.4	12588.66	0.59%	101.5	%
ScR 361.383	242365.7	2171.43	0.90%	102.3	%
Mo 202.031†	112721.0	1175.03	1.04%	[10]	mg/L
Sb 206.836†	20338.7	215.23	1.06%	[10]	mg/L
Si 288.158†	13034.1	39.51	0.30%	[10]	mg/L
Sn 189.927†	38153.3	404.19	1.06%	[10]	mg/L
Ti 334.903†	200059.5	4371.33	2.19%	[10]	mg/L

Sequence No.: 5
Sample ID: STD5

Autosampler Location: 5
Date Collected: 8/11/2010 4:33:48 PM
Data Type: Original

Nebulizer Parameters: STD5

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: STD5

Analyte	Mean Corrected		RSD		Calib
	Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	2034733.8	6818.47	0.34%	97.46	%
ScR 361.383	238317.8	2078.77	0.87%	100.6	%
Al 308.215†	41396.6	497.96	1.20%	[30]	mg/L
Ca 317.933†	284970.7	399.31	0.14%	[30]	mg/L
Fe 273.955†	118427.2	364.47	0.31%	[100]	mg/L
K 766.490†	267792.5	696.87	0.26%	[100]	mg/L
Mg 279.077†	33533.9	379.51	1.13%	[30]	mg/L
Na 330.237†	2335.7	18.18	0.78%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	196700	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1380	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	1608	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	2170	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	8043	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	293400	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	9499	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	55400	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	52640	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	4039	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	217000	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	1184	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	2678	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	1118	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	39740	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	11270	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	6217	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	23.36	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	1846	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	7964	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	2034	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	1047	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1303	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	3815	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	497300	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	20010	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	2080	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	123100	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	2364	0.00000	1.000000	

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Analysis Begun

Start Time: 8/11/2010 4:47:00 PM

Plasma On Time: 8/11/2010 10:23:38 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0805B.sif

Batch ID:

Results Data Set: PE100811

Results Library: C:\pe\metals\Results\Results.mdb
=====

Sequence No.: 1

Sample ID: Calib Blank 1

Date Collected: 8/11/2010 4:47:03 PM

Data Type: Original

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units
ScA 357.253	2093012.2	24664.86	1.18%	100.3 %
ScR 361.383	238427.3	1863.85	0.78%	100.7 %
Ag 328.068†	-140.1	34.03	24.30%	[0.00] mg/L
Al 308.215†	-209.0	5.75	2.75%	[0.00] mg/L
As 188.979†	17.5	2.87	16.42%	[0.00] mg/L
B 249.677†	-6.1	1.90	31.28%	[0.00] mg/L
Ba 233.527†	24.0	2.07	8.61%	[0.00] mg/L
Be 313.042†	539.9	18.07	3.35%	[0.00] mg/L
Ca 317.933†	-105.7	14.77	13.97%	[0.00] mg/L
Cd 228.802†	214.6	5.33	2.48%	[0.00] mg/L
Co 228.616†	-164.3	9.20	5.60%	[0.00] mg/L
Cr 267.716†	-43.8	1.84	4.19%	[0.00] mg/L
Cu 324.752†	1798.6	32.97	1.83%	[0.00] mg/L
Fe 273.955†	-19.8	1.28	6.49%	[0.00] mg/L
K 766.490†	3622.4	82.60	2.28%	[0.00] mg/L
Mg 279.077†	-60.5	4.06	6.72%	[0.00] mg/L
Mn 257.610†	73.1	0.60	0.82%	[0.00] mg/L
Mo 202.031†	26.3	1.83	6.96%	[0.00] mg/L
Na 589.592†	1716.2	6.12	0.36%	[0.00] mg/L
Na 330.237†	-244.2	13.74	5.63%	[0.00] mg/L
Ni 231.604†	-66.2	6.28	9.49%	[0.00] mg/L
Pb 220.353†	284.8	5.65	1.98%	[0.00] mg/L
Sb 206.836†	165.7	1.45	0.88%	[0.00] mg/L
Se 196.026†	-65.2	1.81	2.78%	[0.00] mg/L
Si 288.158†	12.7	10.90	85.94%	[0.00] mg/L
Sn 189.927†	-2.4	6.12	255.98%	[0.00] mg/L
Sr 421.552†	487.1	5.13	1.05%	[0.00] mg/L
Ti 334.903†	219.9	18.48	8.40%	[0.00] mg/L
Tl 190.801†	-9.0	1.96	21.73%	[0.00] mg/L
V 292.402†	533.0	14.71	2.76%	[0.00] mg/L
Zn 206.200†	-10.8	1.45	13.36%	[0.00] mg/L

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Analysis Begun

Start Time: 8/11/2010 4:51:26 PM

Plasma On Time: 8/11/2010 10:23:38 AM

Logged In Analyst: metals

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N0060101Autosampler Model: S10

Sample Information File: C:\pe\metals\Sample Information\0805B.sif

Batch ID:

Results Data Set: PE100811

Results Library: C:\pe\metals\Results\Results.mdb
=====

Sequence No.: 1

Autosampler Location: 7

Sample ID: CV

Date Collected: 8/11/2010 4:51:28 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2074199.1	99.35 %	0.959			0.97%
ScR 361.383	243396.5	102.8 %	0.95			0.93%
Ag 328.068†	191607.7	0.9740 mg/L	0.00322	0.9740 mg/L	0.00322	0.33%
Al 308.215†	2820.8	2.005 mg/L	0.0175	2.005 mg/L	0.0175	0.87%
As 188.979†	3242.7	2.017 mg/L	0.0169	2.017 mg/L	0.0169	0.84%
B 249.677†	2090.7	0.9618 mg/L	0.01032	0.9618 mg/L	0.01032	1.07%
Ba 233.527†	7861.7	0.9770 mg/L	0.00810	0.9770 mg/L	0.00810	0.83%
Be 313.042†	291002.6	0.9893 mg/L	0.00155	0.9893 mg/L	0.00155	0.16%
Ca 317.933†	19428.2	2.045 mg/L	0.0159	2.045 mg/L	0.0159	0.78%
Cd 228.802†	57341.8	1.032 mg/L	0.0084	1.032 mg/L	0.0084	0.81%
Co 228.616†	51941.0	0.9849 mg/L	0.00906	0.9849 mg/L	0.00906	0.92%
Cr 267.716†	3986.3	0.9868 mg/L	0.00455	0.9868 mg/L	0.00455	0.46%
Cu 324.752†	229132.0	1.056 mg/L	0.0050	1.056 mg/L	0.0050	0.47%
Fe 273.955†	2325.2	1.963 mg/L	0.0173	1.963 mg/L	0.0173	0.88%
K 766.490†	53574.9	20.01 mg/L	0.056	20.01 mg/L	0.056	0.28%
Mg 279.077†	2219.9	1.989 mg/L	0.0194	1.989 mg/L	0.0194	0.97%
Mn 257.610†	39327.5	0.9901 mg/L	0.00192	0.9901 mg/L	0.00192	0.19%
Mo 202.031†	11246.6	0.9976 mg/L	0.00999	0.9976 mg/L	0.00999	1.00%
Na 589.592†	304488.6	48.98 mg/L	0.117	48.98 mg/L	0.117	0.24%
Na 330.237†	1176.0	50.23 mg/L	0.151	50.23 mg/L	0.151	0.30%
Ni 231.604†	1812.3	0.9826 mg/L	0.00630	0.9826 mg/L	0.00630	0.64%
Pb 220.353†	16005.8	2.011 mg/L	0.0160	2.011 mg/L	0.0160	0.80%
Sb 206.836†	4405.4	2.163 mg/L	0.0206	2.163 mg/L	0.0206	0.95%
Se 196.026†	2093.8	1.999 mg/L	0.0107	1.999 mg/L	0.0107	0.54%
Si 288.158†	2755.4	2.117 mg/L	0.0217	2.117 mg/L	0.0217	1.02%
Sn 189.927†	3553.4	0.9319 mg/L	0.00856	0.9319 mg/L	0.00856	0.92%
Sr 421.552†	495267.6	0.9958 mg/L	0.00576	0.9958 mg/L	0.00576	0.58%
Ti 334.903†	19869.3	0.9919 mg/L	0.00215	0.9919 mg/L	0.00215	0.22%
Tl 190.801†	4129.1	1.972 mg/L	0.0167	1.972 mg/L	0.0167	0.85%
V 292.402†	121469.2	0.9984 mg/L	0.00450	0.9984 mg/L	0.00450	0.45%
Zn 206.200†	2319.7	0.9804 mg/L	0.00726	0.9804 mg/L	0.00726	0.74%

Sequence No.: 2
Sample ID: CB

Autosampler Location: 1
Date Collected: 8/11/2010 4:57:30 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2076523.5	99.46	%	0.479			0.48%
ScR 361.383	236797.2	99.99	%	2.087			2.09%
Ag 328.068†	3.1	0.00002	mg/L	0.000167	0.00002	mg/L	0.000167 >999.9%
Al 308.215†	4.1	0.00294	mg/L	0.009157	0.00294	mg/L	0.009157 311.09%
As 188.979†	1.9	0.00118	mg/L	0.002869	0.00118	mg/L	0.002869 243.01%
B 249.677†	13.1	0.00605	mg/L	0.000962	0.00605	mg/L	0.000962 15.92%
Ba 233.527†	3.8	0.00047	mg/L	0.000211	0.00047	mg/L	0.000211 44.83%
Be 313.042†	45.5	0.00015	mg/L	0.000007	0.00015	mg/L	0.000007 4.68%
Ca 317.933†	-0.5	-0.00005	mg/L	0.001685	-0.00005	mg/L	0.001685 >999.9%
Cd 228.802†	4.1	0.00007	mg/L	0.000080	0.00007	mg/L	0.000080 110.45%
Co 228.616†	-0.7	-0.00001	mg/L	0.000069	-0.00001	mg/L	0.000069 644.12%
Cr 267.716†	5.5	0.00137	mg/L	0.000916	0.00137	mg/L	0.000916 67.01%
Cu 324.752†	-19.5	-0.00009	mg/L	0.000288	-0.00009	mg/L	0.000288 320.35%
Fe 273.955†	-5.7	-0.00478	mg/L	0.001402	-0.00478	mg/L	0.001402 29.32%
K 766.490†	79.1	0.02955	mg/L	0.036021	0.02955	mg/L	0.036021 121.88%
Mg 279.077†	-2.6	-0.00231	mg/L	0.001720	-0.00231	mg/L	0.001720 74.57%
Mn 257.610†	11.1	0.00028	mg/L	0.000172	0.00028	mg/L	0.000172 61.83%
Mo 202.031†	0.9	0.00008	mg/L	0.000257	0.00008	mg/L	0.000257 317.63%
Na 589.592†	204.4	0.03288	mg/L	0.005049	0.03288	mg/L	0.005049 15.35%
Na 330.237†	4.4	0.1880	mg/L	0.34487	0.1880	mg/L	0.34487 183.40%
Ni 231.604†	1.7	0.00092	mg/L	0.000960	0.00092	mg/L	0.000960 104.04%
Pb 220.353†	2.2	0.00028	mg/L	0.000889	0.00028	mg/L	0.000889 316.68%
Sb 206.836†	-0.6	-0.00031	mg/L	0.003457	-0.00031	mg/L	0.003457 >999.9%
Se 196.026†	-5.4	-0.00520	mg/L	0.002288	-0.00520	mg/L	0.002288 43.98%
Si 288.158†	5.1	0.00393	mg/L	0.006176	0.00393	mg/L	0.006176 157.10%
Sn 189.927†	3.0	0.00079	mg/L	0.000657	0.00079	mg/L	0.000657 83.37%
Sr 421.552†	-13.8	-0.00003	mg/L	0.000056	-0.00003	mg/L	0.000056 200.59%
Ti 334.903†	-22.8	-0.00114	mg/L	0.000728	-0.00114	mg/L	0.000728 63.91%
Tl 190.801†	-0.4	-0.00019	mg/L	0.001976	-0.00019	mg/L	0.001976 >999.9%
V 292.402†	8.1	0.00008	mg/L	0.000206	0.00008	mg/L	0.000206 269.55%
Zn 206.200†	0.8	0.00035	mg/L	0.000509	0.00035	mg/L	0.000509 146.20%

Sequence No.: 3
Sample ID: CRI

Autosampler Location: 21
Date Collected: 8/11/2010 5:03:29 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: CRI

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: CRI

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2104178.1	100.8	%	0.29			0.29%
ScR 361.383	239975.9	101.3	%	0.77			0.76%
Ag 328.068†	566.1	0.00288	mg/L	0.000163	0.00288	mg/L	0.000163 5.68%
Al 308.215†	61.2	0.04419	mg/L	0.005322	0.04419	mg/L	0.005322 12.04%
As 188.979†	78.3	0.04870	mg/L	0.002689	0.04870	mg/L	0.002689 5.52%
B 249.677†	43.5	0.02002	mg/L	0.001456	0.02002	mg/L	0.001456 7.27%
Ba 233.527†	26.6	0.00330	mg/L	0.000740	0.00330	mg/L	0.000740 22.39%
Be 313.042†	317.3	0.00107	mg/L	0.000077	0.00107	mg/L	0.000077 7.17%
Ca 317.933†	473.1	0.04981	mg/L	0.002144	0.04981	mg/L	0.002144 4.30%
Cd 228.802†	118.6	0.00206	mg/L	0.000113	0.00206	mg/L	0.000113 5.52%
Co 228.616†	163.3	0.00309	mg/L	0.000028	0.00309	mg/L	0.000028 0.89%
Cr 267.716†	20.2	0.00500	mg/L	0.001090	0.00500	mg/L	0.001090 21.81%
Cu 324.752†	227.0	0.00105	mg/L	0.000093	0.00105	mg/L	0.000093 8.90%
Fe 273.955†	54.2	0.04575	mg/L	0.001333	0.04575	mg/L	0.001333 2.91%
K 766.490†	1447.6	0.5406	mg/L	0.03232	0.5406	mg/L	0.03232 5.98%
Mg 279.077†	57.4	0.05133	mg/L	0.001932	0.05133	mg/L	0.001932 3.76%
Mn 257.610†	43.8	0.00111	mg/L	0.000050	0.00111	mg/L	0.000050 4.53%
Mo 202.031†	61.6	0.00547	mg/L	0.000253	0.00547	mg/L	0.000253 4.63%
Na 589.592†	3225.8	0.5189	mg/L	0.00192	0.5189	mg/L	0.00192 0.37%
Na 330.237†	18.4	0.7869	mg/L	0.72037	0.7869	mg/L	0.72037 91.54%
Ni 231.604†	19.2	0.01043	mg/L	0.001671	0.01043	mg/L	0.001671 16.03%
Pb 220.353†	156.3	0.01964	mg/L	0.000232	0.01964	mg/L	0.000232 1.18%
Sb 206.836†	105.7	0.05198	mg/L	0.001334	0.05198	mg/L	0.001334 2.57%
Se 196.026†	52.1	0.04983	mg/L	0.002947	0.04983	mg/L	0.002947 5.91%
Si 288.158†	90.2	0.06920	mg/L	0.004060	0.06920	mg/L	0.004060 5.87%
Sn 189.927†	41.1	0.01079	mg/L	0.000323	0.01079	mg/L	0.000323 2.99%
Sr 421.552†	520.9	0.00105	mg/L	0.000064	0.00105	mg/L	0.000064 6.15%
Ti 334.903†	97.3	0.00486	mg/L	0.001223	0.00486	mg/L	0.001223 25.20%
Tl 190.801†	92.7	0.04454	mg/L	0.001660	0.04454	mg/L	0.001660 3.73%
V 292.402†	365.6	0.00303	mg/L	0.000177	0.00303	mg/L	0.000177 5.85%
Zn 206.200†	22.8	0.00964	mg/L	0.000157	0.00964	mg/L	0.000157 1.62%

Sequence No.: 4
Sample ID: ICSA

Autosampler Location: 22
Date Collected: 8/11/2010 5:09:29 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2030496.9	97.26	%	0.622			0.64%
ScR 361.383	241032.6	101.8	%	0.24			0.24%
Ag 328.068†	-1234.4	0.00045	mg/L	0.000369	0.00045 mg/L	0.000369	82.07%
Al 308.215†	274580.4	199.0	mg/L	0.04	199.0 mg/L	0.04	0.02%
As 188.979†	-7.9	-0.00493	mg/L	0.002270	-0.00493 mg/L	0.002270	46.03%
B 249.677†	31.7	0.01459	mg/L	0.001694	0.01459 mg/L	0.001694	11.61%
Ba 233.527†	85.7	0.00158	mg/L	0.000541	0.00158 mg/L	0.000541	34.15%
Be 313.042†	2.9	-0.00005	mg/L	0.000041	-0.00005 mg/L	0.000041	85.82%
Ca 317.933†	913430.9	96.16	mg/L	0.245	96.16 mg/L	0.245	0.25%
Cd 228.802†	49.3	0.00090	mg/L	0.000090	0.00090 mg/L	0.000090	10.01%
Co 228.616†	38.0	0.00071	mg/L	0.000138	0.00071 mg/L	0.000138	19.35%
Cr 267.716†	11.2	0.00226	mg/L	0.000901	0.00226 mg/L	0.000901	39.93%
Cu 324.752†	-3620.2	0.00045	mg/L	0.000306	0.00045 mg/L	0.000306	68.61%
Fe 273.955†	227882.7	192.4	mg/L	0.59	192.4 mg/L	0.59	0.31%
K 766.490†	-153.6	-0.05737	mg/L	0.005906	-0.05737 mg/L	0.005906	10.29%
Mg 279.077†	109645.4	97.98	mg/L	0.544	97.98 mg/L	0.544	0.55%
Mn 257.610†	29.8	-0.00059	mg/L	0.000032	-0.00059 mg/L	0.000032	5.41%
Mo 202.031†	19.9	0.00177	mg/L	0.000408	0.00177 mg/L	0.000408	23.10%
Na 589.592†	115.9	0.01864	mg/L	0.002517	0.01864 mg/L	0.002517	13.50%
Na 330.237†	18.8	0.1730	mg/L	0.15850	0.1730 mg/L	0.15850	91.61%
Ni 231.604†	-2.7	-0.00139	mg/L	0.000992	-0.00139 mg/L	0.000992	71.49%
Pb 220.353†	-304.3	0.00521	mg/L	0.000103	0.00521 mg/L	0.000103	1.97%
Sb 206.836†	148.0	-0.00450	mg/L	0.000669	-0.00450 mg/L	0.000669	14.86%
Se 196.026†	-96.0	-0.01888	mg/L	0.004361	-0.01888 mg/L	0.004361	23.10%
Si 288.158†	-22.4	-0.00410	mg/L	0.007873	-0.00410 mg/L	0.007873	192.16%
Sn 189.927†	-66.9	-0.00961	mg/L	0.000585	-0.00961 mg/L	0.000585	6.09%
Sr 421.552†	1825.8	0.00367	mg/L	0.000064	0.00367 mg/L	0.000064	1.75%
Ti 334.903†	86.7	0.00058	mg/L	0.000533	0.00058 mg/L	0.000533	91.67%
Tl 190.801†	-58.7	-0.02833	mg/L	0.001059	-0.02833 mg/L	0.001059	3.74%
V 292.402†	2723.7	-0.00046	mg/L	0.000629	-0.00046 mg/L	0.000629	136.72%
Zn 206.200†	-13.8	-0.00102	mg/L	0.001058	-0.00102 mg/L	0.001058	103.48%

Sequence No.: 5
Sample ID: ICSAB

Autosampler Location: 23
Date Collected: 8/11/2010 5:15:47 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2005056.6	96.04	%	0.630			0.66%
ScR 361.383	238291.3	100.6	%	0.79			0.79%
Ag 328.068†	198046.1	1.014	mg/L	0.0108	1.014 mg/L	0.0108	1.06%
Al 308.215†	275496.7	199.6	mg/L	0.88	199.6 mg/L	0.88	0.44%
As 188.979†	1601.7	0.9965	mg/L	0.00969	0.9965 mg/L	0.00969	0.97%
B 249.677†	42.2	0.01647	mg/L	0.000958	0.01647 mg/L	0.000958	5.82%
Ba 233.527†	7848.4	0.9664	mg/L	0.00694	0.9664 mg/L	0.00694	0.72%
Be 313.042†	294078.8	0.9998	mg/L	0.00329	0.9998 mg/L	0.00329	0.33%
Ca 317.933†	914837.0	96.31	mg/L	0.519	96.31 mg/L	0.519	0.54%
Cd 228.802†	55556.3	1.001	mg/L	0.0076	1.001 mg/L	0.0076	0.76%
Co 228.616†	48264.7	0.9165	mg/L	0.00456	0.9165 mg/L	0.00456	0.50%
Cr 267.716†	3927.2	0.9718	mg/L	0.01007	0.9718 mg/L	0.01007	1.04%
Cu 324.752†	224716.7	1.053	mg/L	0.0084	1.053 mg/L	0.0084	0.79%
Fe 273.955†	228251.0	192.7	mg/L	1.17	192.7 mg/L	1.17	0.61%
K 766.490†	-110.7	-0.04132	mg/L	0.025574	-0.04132 mg/L	0.025574	61.89%
Mg 279.077†	112335.6	100.4	mg/L	0.60	100.4 mg/L	0.60	0.60%
Mn 257.610†	38513.6	0.9680	mg/L	0.00739	0.9680 mg/L	0.00739	0.76%
Mo 202.031†	28.4	0.00238	mg/L	0.000097	0.00238 mg/L	0.000097	4.10%
Na 589.592†	160.8	0.02586	mg/L	0.005965	0.02586 mg/L	0.005965	23.06%
Na 330.237†	35.3	0.5862	mg/L	0.18281	0.5862 mg/L	0.18281	31.19%
Ni 231.604†	1743.6	0.9452	mg/L	0.00937	0.9452 mg/L	0.00937	0.99%
Pb 220.353†	7150.7	0.9423	mg/L	0.00868	0.9423 mg/L	0.00868	0.92%
Sb 206.836†	2375.4	1.078	mg/L	0.0098	1.078 mg/L	0.0098	0.91%
Se 196.026†	959.8	0.9875	mg/L	0.00536	0.9875 mg/L	0.00536	0.54%
Si 288.158†	-17.5	0.00089	mg/L	0.004419	0.00089 mg/L	0.004419	495.70%
Sn 189.927†	-68.8	-0.01002	mg/L	0.000737	-0.01002 mg/L	0.000737	7.35%
Sr 421.552†	2109.9	0.00424	mg/L	0.000147	0.00424 mg/L	0.000147	3.46%
Ti 334.903†	70.3	-0.00047	mg/L	0.000234	-0.00047 mg/L	0.000234	49.42%
Tl 190.801†	1945.3	0.9220	mg/L	0.00926	0.9220 mg/L	0.00926	1.00%
V 292.402†	123334.4	0.9856	mg/L	0.00714	0.9856 mg/L	0.00714	0.72%
Zn 206.200†	2155.1	0.9158	mg/L	0.00647	0.9158 mg/L	0.00647	0.71%

Sequence No.: 6

Autosampler Location: 7

Sample ID: CV

Date Collected: 8/11/2010 5:22:46 PM

Dilution: 1X

Data Type: Original

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2093866.3	100.3	%	0.40			0.39%
ScR 361.383	244428.6	103.2	%	0.35			0.33%
Ag 328.068†	188242.7	0.9568	mg/L	0.00945	0.9568 mg/L	0.00945	0.99%
Al 308.215†	2803.7	1.994	mg/L	0.0064	1.994 mg/L	0.0064	0.32%
As 188.979†	3188.0	1.983	mg/L	0.0225	1.983 mg/L	0.0225	1.13%
B 249.677†	2058.6	0.9471	mg/L	0.00558	0.9471 mg/L	0.00558	0.59%
Ba 233.527†	7797.8	0.9691	mg/L	0.00416	0.9691 mg/L	0.00416	0.43%
Be 313.042†	287579.9	0.9777	mg/L	0.00088	0.9777 mg/L	0.00088	0.09%
Ca 317.933†	19268.8	2.029	mg/L	0.0113	2.029 mg/L	0.0113	0.56%
Cd 228.802†	56205.7	1.011	mg/L	0.0060	1.011 mg/L	0.0060	0.60%
Co 228.616†	50804.7	0.9633	mg/L	0.00656	0.9633 mg/L	0.00656	0.68%
Cr 267.716†	3941.1	0.9756	mg/L	0.00076	0.9756 mg/L	0.00076	0.08%
Cu 324.752†	224515.7	1.035	mg/L	0.0049	1.035 mg/L	0.0049	0.48%
Fe 273.955†	2307.9	1.948	mg/L	0.0066	1.948 mg/L	0.0066	0.34%
K 766.490†	52891.2	19.75	mg/L	0.100	19.75 mg/L	0.100	0.51%
Mg 279.077†	2206.9	1.977	mg/L	0.0084	1.977 mg/L	0.0084	0.42%
Mn 257.610†	38928.2	0.9800	mg/L	0.00187	0.9800 mg/L	0.00187	0.19%
Mo 202.031†	11009.7	0.9766	mg/L	0.00928	0.9766 mg/L	0.00928	0.95%
Na 589.592†	301024.3	48.42	mg/L	0.128	48.42 mg/L	0.128	0.26%
Na 330.237†	1168.4	49.91	mg/L	0.294	49.91 mg/L	0.294	0.59%
Ni 231.604†	1790.8	0.9710	mg/L	0.00164	0.9710 mg/L	0.00164	0.17%
Pb 220.353†	15640.8	1.965	mg/L	0.0089	1.965 mg/L	0.0089	0.45%
Sb 206.836†	4338.6	2.130	mg/L	0.0207	2.130 mg/L	0.0207	0.97%
Se 196.026†	2059.7	1.966	mg/L	0.0236	1.966 mg/L	0.0236	1.20%
Si 288.158†	2724.3	2.093	mg/L	0.0093	2.093 mg/L	0.0093	0.45%
Sn 189.927†	3495.0	0.9166	mg/L	0.00900	0.9166 mg/L	0.00900	0.98%
Sr 421.552†	490554.6	0.9864	mg/L	0.00327	0.9864 mg/L	0.00327	0.33%
Ti 334.903†	19668.1	0.9819	mg/L	0.00136	0.9819 mg/L	0.00136	0.14%
Tl 190.801†	4060.7	1.939	mg/L	0.0149	1.939 mg/L	0.0149	0.77%
V 292.402†	118382.8	0.9731	mg/L	0.00429	0.9731 mg/L	0.00429	0.44%
Zn 206.200†	2297.0	0.9709	mg/L	0.00661	0.9709 mg/L	0.00661	0.68%

Sequence No.: 7
 Sample ID: CB

Autosampler Location: 1
 Date Collected: 8/11/2010 5:28:49 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 180.0 kPa 0.55 L/min

Mean Data: CB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2116377.9	101.4 %		0.66			0.65%
ScR 361.383	241732.6	102.1 %		0.88			0.86%
Ag 328.068†	2.3	0.00001 mg/L		0.000144	0.00001 mg/L	0.000144	>999.9%
Al 308.215†	5.1	0.00371 mg/L		0.001259	0.00371 mg/L	0.001259	33.92%
As 188.979†	-4.7	-0.00290 mg/L		0.001308	-0.00290 mg/L	0.001308	45.02%
B 249.677†	5.0	0.00229 mg/L		0.001962	0.00229 mg/L	0.001962	85.54%
Ba 233.527†	5.2	0.00064 mg/L		0.000272	0.00064 mg/L	0.000272	42.24%
Be 313.042†	30.6	0.00010 mg/L		0.000116	0.00010 mg/L	0.000116	110.86%
Ca 317.933†	6.9	0.00072 mg/L		0.000763	0.00072 mg/L	0.000763	105.45%
Cd 228.802†	-0.3	0.00000 mg/L		0.000127	0.00000 mg/L	0.000127	>999.9%
Co 228.616†	4.7	0.00009 mg/L		0.000070	0.00009 mg/L	0.000070	77.03%
Cr 267.716†	1.7	0.00041 mg/L		0.000680	0.00041 mg/L	0.000680	164.72%
Cu 324.752†	60.1	0.00028 mg/L		0.000324	0.00028 mg/L	0.000324	117.00%
Fe 273.955†	-4.1	-0.00345 mg/L		0.001568	-0.00345 mg/L	0.001568	45.44%
K 766.490†	-27.4	-0.01025 mg/L		0.005624	-0.01025 mg/L	0.005624	54.90%
Mg 279.077†	-1.1	-0.00098 mg/L		0.004450	-0.00098 mg/L	0.004450	454.85%
Mn 257.610†	7.1	0.00018 mg/L		0.000062	0.00018 mg/L	0.000062	34.93%
Mo 202.031†	6.0	0.00053 mg/L		0.000053	0.00053 mg/L	0.000053	9.98%
Na 589.592†	138.1	0.02222 mg/L		0.006480	0.02222 mg/L	0.006480	29.17%
Na 330.237†	12.6	0.5392 mg/L		0.34490	0.5392 mg/L	0.34490	63.96%
Ni 231.604†	3.5	0.00188 mg/L		0.002874	0.00188 mg/L	0.002874	152.82%
Pb 220.353†	-0.8	-0.00009 mg/L		0.001244	-0.00009 mg/L	0.001244	>999.9%
Sb 206.836†	-6.4	-0.00316 mg/L		0.001360	-0.00316 mg/L	0.001360	42.99%
Se 196.026†	0.2	0.00015 mg/L		0.004256	0.00015 mg/L	0.004256	>999.9%
Si 288.158†	4.4	0.00339 mg/L		0.004420	0.00339 mg/L	0.004420	130.31%
Sn 189.927†	5.1	0.00134 mg/L		0.000387	0.00134 mg/L	0.000387	28.95%
Sr 421.552†	30.5	0.00006 mg/L		0.000095	0.00006 mg/L	0.000095	155.46%
Ti 334.903†	-20.9	-0.00105 mg/L		0.000909	-0.00105 mg/L	0.000909	86.86%
Tl 190.801†	0.4	0.00021 mg/L		0.002202	0.00021 mg/L	0.002202	>999.9%
V 292.402†	-20.2	-0.00016 mg/L		0.000057	-0.00016 mg/L	0.000057	36.34%
Zn 206.200†	-0.6	-0.00024 mg/L		0.000843	-0.00024 mg/L	0.000843	348.82%

Sequence No.: 8
Sample ID: RG64 A TWC

Autosampler Location: 24
Date Collected: 8/11/2010 5:34:47 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 A TWC

Analyte Back Pressure Flow
All 180.0 kPa 0.55 L/min

Mean Data: RG64 A TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2090339.9	100.1 %		1.01			1.01%
ScR 361.383	243201.7	102.7 %		0.02			0.02%
Ag 328.068†	146.3	0.00008 mg/L		0.000147	0.00008 mg/L	0.000147	194.48%
Al 308.215†	208.5	0.1510 mg/L		0.00338	0.1510 mg/L	0.00338	2.24%
As 188.979†	-3.5	-0.00216 mg/L		0.000299	-0.00216 mg/L	0.000299	13.86%
B 249.677†	38.8	0.01789 mg/L		0.001930	0.01789 mg/L	0.001930	10.79%
Ba 233.527†	164.5	0.02042 mg/L		0.000646	0.02042 mg/L	0.000646	3.16%
Be 313.042†	24.8	0.00008 mg/L		0.000077	0.00008 mg/L	0.000077	95.23%
Ca 317.933†	560844.0	59.04 mg/L		0.079	59.04 mg/L	0.079	0.13%
Cd 228.802†	-4.6	-0.00008 mg/L		0.000070	-0.00008 mg/L	0.000070	91.69%
Co 228.616†	69.9	0.00131 mg/L		0.000105	0.00131 mg/L	0.000105	8.01%
Cr 267.716†	11.6	0.00099 mg/L		0.001906	0.00099 mg/L	0.001906	192.09%
Cu 324.752†	-19.7	-0.00004 mg/L		0.000102	-0.00004 mg/L	0.000102	230.18%
Fe 273.955†	650.0	0.5489 mg/L		0.00300	0.5489 mg/L	0.00300	0.55%
K 766.490†	8294.2	3.097 mg/L		0.0129	3.097 mg/L	0.0129	0.42%
Mg 279.077†	36990.4	33.09 mg/L		0.092	33.09 mg/L	0.092	0.28%
Mn 257.610†	49824.6	1.254 mg/L		0.0032	1.254 mg/L	0.0032	0.25%
Mo 202.031†	24.7	0.00219 mg/L		0.000416	0.00219 mg/L	0.000416	19.00%
Na 589.592†	68599.0	11.03 mg/L		0.035	11.03 mg/L	0.035	0.32%
Na 330.237†	280.1	11.61 mg/L		0.082	11.61 mg/L	0.082	0.70%
Ni 231.604†	23.1	0.01250 mg/L		0.001203	0.01250 mg/L	0.001203	9.62%
Pb 220.353†	-11.4	-0.00143 mg/L		0.000505	-0.00143 mg/L	0.000505	35.38%
Sb 206.836†	-7.8	-0.00412 mg/L		0.001432	-0.00412 mg/L	0.001432	34.76%
Se 196.026†	-1.5	-0.00256 mg/L		0.003455	-0.00256 mg/L	0.003455	134.85%
Si 288.158†	21852.2	16.77 mg/L		0.151	16.77 mg/L	0.151	0.90%
Sn 189.927†	-43.9	-0.00740 mg/L		0.000779	-0.00740 mg/L	0.000779	10.53%
Sr 421.552†	129486.7	0.2604 mg/L		0.00020	0.2604 mg/L	0.00020	0.08%
Ti 334.903†	162.7	0.00583 mg/L		0.001424	0.00583 mg/L	0.001424	24.43%
Tl 190.801†	-6.6	-0.00486 mg/L		0.003354	-0.00486 mg/L	0.003354	69.02%
V 292.402†	160.8	0.00145 mg/L		0.000065	0.00145 mg/L	0.000065	4.50%
Zn 206.200†	-10.0	-0.00186 mg/L		0.000271	-0.00186 mg/L	0.000271	14.51%

Sequence No.: 9

Autosampler Location: 25

Sample ID: RG64 B TWC

Date Collected: 8/11/2010 5:41:04 PM

Dilution: 1X

Data Type: Original

Nebulizer Parameters: RG64 B TWC

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: RG64 B TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2097841.9	100.5 %		1.00			1.00%
ScR 361.383	238546.8	100.7 %		0.61			0.60%
Ag 328.068†	123.8	0.00000 mg/L		0.000162	0.00000 mg/L	0.000162	>999.9%
Al 308.215†	16.3	0.01162 mg/L		0.003417	0.01162 mg/L	0.003417	29.41%
As 188.979†	1.9	0.00116 mg/L		0.003675	0.00116 mg/L	0.003675	318.12%
B 249.677†	69.8	0.03215 mg/L		0.003359	0.03215 mg/L	0.003359	10.45%
Ba 233.527†	210.1	0.02611 mg/L		0.000160	0.02611 mg/L	0.000160	0.61%
Be 313.042†	7.5	0.00001 mg/L		0.000043	0.00001 mg/L	0.000043	481.26%
Ca 317.933†	741842.7	78.10 mg/L		0.143	78.10 mg/L	0.143	0.18%
Cd 228.802†	-10.7	-0.00019 mg/L		0.000120	-0.00019 mg/L	0.000120	64.13%
Co 228.616†	43.9	0.00082 mg/L		0.000115	0.00082 mg/L	0.000115	14.08%
Cr 267.716†	15.0	0.00096 mg/L		0.001149	0.00096 mg/L	0.001149	119.84%
Cu 324.752†	-54.6	-0.00024 mg/L		0.000143	-0.00024 mg/L	0.000143	60.57%
Fe 273.955†	224.8	0.1898 mg/L		0.00132	0.1898 mg/L	0.00132	0.70%
K 766.490†	16258.5	6.071 mg/L		0.0388	6.071 mg/L	0.0388	0.64%
Mg 279.077†	60322.7	53.97 mg/L		0.079	53.97 mg/L	0.079	0.15%
Mn 257.610†	3996.6	0.1006 mg/L		0.00016	0.1006 mg/L	0.00016	0.16%
Mo 202.031†	26.6	0.00236 mg/L		0.000314	0.00236 mg/L	0.000314	13.34%
Na 589.592†	104114.3	16.75 mg/L		0.025	16.75 mg/L	0.025	0.15%
Na 330.237†	424.8	17.67 mg/L		0.343	17.67 mg/L	0.343	1.94%
Ni 231.604†	51.3	0.02777 mg/L		0.000900	0.02777 mg/L	0.000900	3.24%
Pb 220.353†	-13.7	-0.00172 mg/L		0.000616	-0.00172 mg/L	0.000616	35.76%
Sb 206.836†	-12.2	-0.00623 mg/L		0.002431	-0.00623 mg/L	0.002431	39.01%
Se 196.026†	-9.2	-0.00887 mg/L		0.007248	-0.00887 mg/L	0.007248	81.75%
Si 288.158†	21317.4	16.36 mg/L		0.112	16.36 mg/L	0.112	0.68%
Sn 189.927†	-59.4	-0.00986 mg/L		0.000435	-0.00986 mg/L	0.000435	4.42%
Sr 421.552†	241983.2	0.4866 mg/L		0.00106	0.4866 mg/L	0.00106	0.22%
Ti 334.903†	56.7	-0.00021 mg/L		0.001273	-0.00021 mg/L	0.001273	598.28%
Tl 190.801†	-7.1	-0.00359 mg/L		0.001378	-0.00359 mg/L	0.001378	38.39%
V 292.402†	800.1	0.00653 mg/L		0.000181	0.00653 mg/L	0.000181	2.78%
Zn 206.200†	-12.6	-0.00198 mg/L		0.001117	-0.00198 mg/L	0.001117	56.29%

Sequence No.: 10
Sample ID: RG64 D TWC

Autosampler Location: 26
Date Collected: 8/11/2010 5:47:05 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 D TWC

Analyte Back Pressure Flow
All 180.0 kPa 0.55 L/min

Mean Data: RG64 D TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2084596.4	99.85 %		0.478			0.48%
ScR 361.383	243106.5	102.7 %		0.78			0.76%
Ag 328.068†	257.9	0.00019 mg/L		0.000117	0.00019 mg/L	0.000117	60.52%
Al 308.215†	25.7	0.01856 mg/L		0.004503	0.01856 mg/L	0.004503	24.26%
As 188.979†	-0.9	-0.00059 mg/L		0.000891	-0.00059 mg/L	0.000891	150.93%
B 249.677†	36.2	0.01670 mg/L		0.001112	0.01670 mg/L	0.001112	6.66%
Ba 233.527†	496.1	0.06150 mg/L		0.000455	0.06150 mg/L	0.000455	0.74%
Be 313.042†	-10.6	-0.00004 mg/L		0.000044	-0.00004 mg/L	0.000044	119.06%
Ca 317.933†	840158.9	88.45 mg/L		0.141	88.45 mg/L	0.141	0.16%
Cd 228.802†	-8.2	-0.00015 mg/L		0.000119	-0.00015 mg/L	0.000119	81.91%
Co 228.616†	6.5	0.00010 mg/L		0.000022	0.00010 mg/L	0.000022	21.97%
Cr 267.716†	15.5	0.00127 mg/L		0.000707	0.00127 mg/L	0.000707	55.50%
Cu 324.752†	-291.8	-0.00101 mg/L		0.000148	-0.00101 mg/L	0.000148	14.73%
Fe 273.955†	4537.6	3.832 mg/L		0.0332	3.832 mg/L	0.0332	0.87%
K 766.490†	14705.9	5.492 mg/L		0.0345	5.492 mg/L	0.0345	0.63%
Mg 279.077†	47583.1	42.57 mg/L		0.119	42.57 mg/L	0.119	0.28%
Mn 257.610†	127565.2	3.210 mg/L		0.0075	3.210 mg/L	0.0075	0.23%
Mo 202.031†	23.5	0.00209 mg/L		0.000189	0.00209 mg/L	0.000189	9.05%
Na 589.592†	101077.8	16.26 mg/L		0.053	16.26 mg/L	0.053	0.32%
Na 330.237†	412.7	17.09 mg/L		0.087	17.09 mg/L	0.087	0.51%
Ni 231.604†	5.5	0.00299 mg/L		0.002269	0.00299 mg/L	0.002269	75.83%
Pb 220.353†	-14.5	-0.00206 mg/L		0.000755	-0.00206 mg/L	0.000755	36.66%
Sb 206.836†	-8.6	-0.00507 mg/L		0.003427	-0.00507 mg/L	0.003427	67.65%
Se 196.026†	-10.7	-0.01270 mg/L		0.006571	-0.01270 mg/L	0.006571	51.73%
Si 288.158†	23467.2	18.01 mg/L		0.217	18.01 mg/L	0.217	1.21%
Sn 189.927†	-57.5	-0.00909 mg/L		0.000219	-0.00909 mg/L	0.000219	2.41%
Sr 421.552†	234642.0	0.4718 mg/L		0.00186	0.4718 mg/L	0.00186	0.39%
Ti 334.903†	63.8	-0.00026 mg/L		0.000584	-0.00026 mg/L	0.000584	221.04%
Tl 190.801†	-5.2	-0.00673 mg/L		0.002217	-0.00673 mg/L	0.002217	32.95%
V 292.402†	26.2	0.00026 mg/L		0.000064	0.00026 mg/L	0.000064	24.24%
Zn 206.200†	-16.3	-0.00351 mg/L		0.000494	-0.00351 mg/L	0.000494	14.09%

Sequence No.: 11
Sample ID: RG64 F TWC

Autosampler Location: 27
Date Collected: 8/11/2010 5:53:07 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 F TWC

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: RG64 F TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2136469.7	102.3 %		0.70			0.68%
ScR 361.383	243043.2	102.6 %		0.34			0.33%
Ag 328.068†	93.8	0.00001 mg/L		0.000178	0.00001 mg/L	0.000178	>999.9%
Al 308.215†	6.3	0.00452 mg/L		0.006231	0.00452 mg/L	0.006231	137.79%
As 188.979†	-7.4	-0.00464 mg/L		0.002254	-0.00464 mg/L	0.002254	48.59%
B 249.677†	79.3	0.03652 mg/L		0.000935	0.03652 mg/L	0.000935	2.56%
Ba 233.527†	89.0	0.01106 mg/L		0.000634	0.01106 mg/L	0.000634	5.74%
Be 313.042†	2.3	0.00001 mg/L		0.000036	0.00001 mg/L	0.000036	414.33%
Ca 317.933†	321517.1	33.85 mg/L		0.045	33.85 mg/L	0.045	0.13%
Cd 228.802†	-8.3	-0.00014 mg/L		0.000040	-0.00014 mg/L	0.000040	28.54%
Co 228.616†	25.7	0.00048 mg/L		0.000081	0.00048 mg/L	0.000081	16.67%
Cr 267.716†	12.2	0.00188 mg/L		0.001495	0.00188 mg/L	0.001495	79.58%
Cu 324.752†	-129.9	-0.00059 mg/L		0.000031	-0.00059 mg/L	0.000031	5.34%
Fe 273.955†	135.8	0.1147 mg/L		0.00137	0.1147 mg/L	0.00137	1.20%
K 766.490†	2567.6	0.9588 mg/L		0.01500	0.9588 mg/L	0.01500	1.56%
Mg 279.077†	23742.8	21.24 mg/L		0.015	21.24 mg/L	0.015	0.07%
Mn 257.610†	45518.9	1.145 mg/L		0.0019	1.145 mg/L	0.0019	0.17%
Mo 202.031†	17.8	0.00158 mg/L		0.000634	0.00158 mg/L	0.000634	40.05%
Na 589.592†	97892.9	15.75 mg/L		0.075	15.75 mg/L	0.075	0.47%
Na 330.237†	399.3	16.87 mg/L		0.152	16.87 mg/L	0.152	0.90%
Ni 231.604†	9.5	0.00515 mg/L		0.002982	0.00515 mg/L	0.002982	57.90%
Pb 220.353†	-14.4	-0.00181 mg/L		0.000433	-0.00181 mg/L	0.000433	23.93%
Sb 206.836†	-9.0	-0.00456 mg/L		0.002210	-0.00456 mg/L	0.002210	48.46%
Se 196.026†	-1.9	-0.00295 mg/L		0.003962	-0.00295 mg/L	0.003962	134.20%
Si 288.158†	15270.2	11.72 mg/L		0.036	11.72 mg/L	0.036	0.31%
Sn 189.927†	-29.4	-0.00527 mg/L		0.000508	-0.00527 mg/L	0.000508	9.63%
Sr 421.552†	121187.3	0.2437 mg/L		0.00023	0.2437 mg/L	0.00023	0.09%
Ti 334.903†	8.6	-0.00089 mg/L		0.000729	-0.00089 mg/L	0.000729	81.51%
Tl 190.801†	-5.4	-0.00409 mg/L		0.001311	-0.00409 mg/L	0.001311	32.05%
V 292.402†	-49.2	-0.00022 mg/L		0.000096	-0.00022 mg/L	0.000096	44.26%
Zn 206.200†	-4.4	-0.00046 mg/L		0.000753	-0.00046 mg/L	0.000753	163.25%

Sequence No.: 12
Sample ID: RG64 EDUP TWC

Autosampler Location: 28
Date Collected: 8/11/2010 5:59:07 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 EDUP TWC

Analyte Back Pressure Flow
All 180.0 kPa 0.55 L/min

Mean Data: RG64 EDUP TWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2104534.4	100.8	%	0.91				0.91%
ScR 361.383	247497.7	104.5	%	0.24				0.23%
Ag 328.068†	426.0	0.00001	mg/L	0.000105	0.00001	mg/L	0.000105	710.00%
Al 308.215†	79.2	0.05735	mg/L	0.006218	0.05735	mg/L	0.006218	10.84%
As 188.979†	-1.9	-0.00116	mg/L	0.000491	-0.00116	mg/L	0.000491	42.43%
B 249.677†	54.8	0.02526	mg/L	0.000815	0.02526	mg/L	0.000815	3.23%
Ba 233.527†	200.6	0.02482	mg/L	0.000536	0.02482	mg/L	0.000536	2.16%
Be 313.042†	-15.6	-0.00005	mg/L	0.000039	-0.00005	mg/L	0.000039	77.31%
Ca 317.933†	740216.0	77.93	mg/L	0.255	77.93	mg/L	0.255	0.33%
Cd 228.802†	-15.0	-0.00027	mg/L	0.000015	-0.00027	mg/L	0.000015	5.73%
Co 228.616†	197.4	0.00374	mg/L	0.000143	0.00374	mg/L	0.000143	3.82%
Cr 267.716†	11.1	0.00077	mg/L	0.000899	0.00077	mg/L	0.000899	116.37%
Cu 324.752†	-323.9	-0.00127	mg/L	0.000247	-0.00127	mg/L	0.000247	19.52%
Fe 273.955†	3023.4	2.553	mg/L	0.0070	2.553	mg/L	0.0070	0.27%
K 766.490†	7697.2	2.874	mg/L	0.0260	2.874	mg/L	0.0260	0.90%
Mg 279.077†	28747.5	25.72	mg/L	0.061	25.72	mg/L	0.061	0.24%
Mn 257.610†	369242.6	9.291	mg/L	0.0276	9.291	mg/L	0.0276	0.30%
Mo 202.031†	27.9	0.00247	mg/L	0.000302	0.00247	mg/L	0.000302	12.20%
Na 589.592†	88285.7	14.20	mg/L	0.045	14.20	mg/L	0.045	0.31%
Na 330.237†	361.5	14.96	mg/L	0.437	14.96	mg/L	0.437	2.92%
Ni 231.604†	8.3	0.00447	mg/L	0.002124	0.00447	mg/L	0.002124	47.50%
Pb 220.353†	-6.5	-0.00096	mg/L	0.001700	-0.00096	mg/L	0.001700	176.85%
Sb 206.836†	-8.9	-0.00497	mg/L	0.001816	-0.00497	mg/L	0.001816	36.52%
Se 196.026†	0.7	-0.00790	mg/L	0.002032	-0.00790	mg/L	0.002032	25.74%
Si 288.158†	17862.4	13.71	mg/L	0.097	13.71	mg/L	0.097	0.71%
Sn 189.927†	-51.1	-0.00845	mg/L	0.000114	-0.00845	mg/L	0.000114	1.34%
Sr 421.552†	262208.5	0.5272	mg/L	0.00154	0.5272	mg/L	0.00154	0.29%
Ti 334.903†	69.7	0.00044	mg/L	0.000694	0.00044	mg/L	0.000694	157.47%
Tl 190.801†	15.0	-0.00508	mg/L	0.001413	-0.00508	mg/L	0.001413	27.80%
V 292.402†	-120.2	0.00010	mg/L	0.000035	0.00010	mg/L	0.000035	33.76%
Zn 206.200†	-12.9	-0.00276	mg/L	0.001520	-0.00276	mg/L	0.001520	55.03%

Sequence No.: 13
Sample ID: RG64 E TWC

Autosampler Location: 29
Date Collected: 8/11/2010 6:05:09 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 E TWC

Analyte Back Pressure Flow
All 180.0 kPa 0.55 L/min

Mean Data: RG64 E TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2129217.6	102.0 %	%	0.23			0.22%
ScR 361.383	247521.0	104.5 %	%	0.42			0.40%
Ag 328.068†	424.4	0.00006 mg/L	mg/L	0.000250	0.00006 mg/L	0.000250	392.56%
Al 308.215†	82.4	0.05965 mg/L	mg/L	0.014142	0.05965 mg/L	0.014142	23.71%
As 188.979†	-1.7	-0.00106 mg/L	mg/L	0.000950	-0.00106 mg/L	0.000950	89.87%
B 249.677†	51.3	0.02365 mg/L	mg/L	0.002241	0.02365 mg/L	0.002241	9.47%
Ba 233.527†	192.9	0.02387 mg/L	mg/L	0.000140	0.02387 mg/L	0.000140	0.59%
Be 313.042†	-0.2	0.00000 mg/L	mg/L	0.000027	0.00000 mg/L	0.000027	>999.9%
Ca 317.933†	720176.6	75.82 mg/L	mg/L	0.033	75.82 mg/L	0.033	0.04%
Cd 228.802†	-16.8	-0.00030 mg/L	mg/L	0.000026	-0.00030 mg/L	0.000026	8.83%
Co 228.616†	200.8	0.00380 mg/L	mg/L	0.000184	0.00380 mg/L	0.000184	4.83%
Cr 267.716†	15.7	0.00197 mg/L	mg/L	0.000732	0.00197 mg/L	0.000732	37.12%
Cu 324.752†	-389.7	-0.00158 mg/L	mg/L	0.000077	-0.00158 mg/L	0.000077	4.86%
Fe 273.955†	2941.4	2.484 mg/L	mg/L	0.0061	2.484 mg/L	0.0061	0.25%
K 766.490†	7607.6	2.841 mg/L	mg/L	0.0087	2.841 mg/L	0.0087	0.31%
Mg 279.077†	27564.2	24.66 mg/L	mg/L	0.135	24.66 mg/L	0.135	0.55%
Mn 257.610†	359563.0	9.047 mg/L	mg/L	0.0119	9.047 mg/L	0.0119	0.13%
Mo 202.031†	24.3	0.00215 mg/L	mg/L	0.000258	0.00215 mg/L	0.000258	11.99%
Na 589.592†	86243.6	13.87 mg/L	mg/L	0.049	13.87 mg/L	0.049	0.35%
Na 330.237†	356.8	14.78 mg/L	mg/L	0.547	14.78 mg/L	0.547	3.70%
Ni 231.604†	9.4	0.00510 mg/L	mg/L	0.000727	0.00510 mg/L	0.000727	14.26%
Pb 220.353†	-11.3	-0.00155 mg/L	mg/L	0.000311	-0.00155 mg/L	0.000311	20.05%
Sb 206.836†	-9.9	-0.00547 mg/L	mg/L	0.004385	-0.00547 mg/L	0.004385	80.11%
Se 196.026†	4.2	-0.00436 mg/L	mg/L	0.002606	-0.00436 mg/L	0.002606	59.72%
Si 288.158†	14233.1	10.92 mg/L	mg/L	0.040	10.92 mg/L	0.040	0.37%
Sn 189.927†	-51.2	-0.00864 mg/L	mg/L	0.000876	-0.00864 mg/L	0.000876	10.13%
Sr 421.552†	255559.0	0.5139 mg/L	mg/L	0.00078	0.5139 mg/L	0.00078	0.15%
Ti 334.903†	84.9	0.00128 mg/L	mg/L	0.001266	0.00128 mg/L	0.001266	98.52%
Tl 190.801†	14.7	-0.00488 mg/L	mg/L	0.001675	-0.00488 mg/L	0.001675	34.33%
V 292.402†	-125.1	0.00004 mg/L	mg/L	0.000068	0.00004 mg/L	0.000068	162.14%
Zn 206.200†	-6.6	-0.00015 mg/L	mg/L	0.000771	-0.00015 mg/L	0.000771	527.37%

Sequence No.: 14

Autosampler Location: 30

Sample ID: RG64 ESPK TWC

Date Collected: 8/11/2010 6:11:26 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 ESPK TWC

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: RG64 ESPK TWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2112179.7	101.2	%	0.53				0.53%
ScR 361.383	246383.6	104.0	%	0.50				0.49%
Ag 328.068†	95695.6	0.4842	mg/L	0.00208	0.4842	mg/L	0.00208	0.43%
Al 308.215†	2813.3	2.031	mg/L	0.0122	2.031	mg/L	0.0122	0.60%
As 188.979†	3222.8	2.005	mg/L	0.0059	2.005	mg/L	0.0059	0.29%
B 249.677†	57.8	0.02517	mg/L	0.000712	0.02517	mg/L	0.000712	2.83%
Ba 233.527†	15273.9	1.899	mg/L	0.0137	1.899	mg/L	0.0137	0.72%
Be 313.042†	144615.1	0.4917	mg/L	0.00123	0.4917	mg/L	0.00123	0.25%
Ca 317.933†	869585.8	91.54	mg/L <i>STL</i>	0.108	91.54	mg/L	0.108	0.12%
Cd 228.802†	27198.7	0.4874	mg/L	0.00224	0.4874	mg/L	0.00224	0.46%
Co 228.616†	24004.2	0.4554	mg/L	0.00253	0.4554	mg/L	0.00253	0.56%
Cr 267.716†	1939.3	0.4777	mg/L	0.00238	0.4777	mg/L	0.00238	0.50%
Cu 324.752†	102396.9	0.4725	mg/L	0.00194	0.4725	mg/L	0.00194	0.41%
Fe 273.955†	5511.6	4.654	mg/L	0.0333	4.654	mg/L	0.0333	0.72%
K 766.490†	34824.0	13.00	mg/L	0.090	13.00	mg/L	0.090	0.69%
Mg 279.077†	41114.7	36.78	mg/L	0.079	36.78	mg/L	0.079	0.21%
Mn 257.610†	410280.3	10.32	mg/L <i>STL</i>	0.024	10.32	mg/L	0.024	0.23%
Mo 202.031†	32.5	0.00281	mg/L	0.000270	0.00281	mg/L	0.000270	9.59%
Na 589.592†	153006.2	24.61	mg/L	0.070	24.61	mg/L	0.070	0.28%
Na 330.237†	619.4	25.77	mg/L	0.346	25.77	mg/L	0.346	1.34%
Ni 231.604†	848.0	0.4586	mg/L	0.00498	0.4586	mg/L	0.00498	1.09%
Pb 220.353†	15088.2	1.895	mg/L	0.0077	1.895	mg/L	0.0077	0.41%
Sb 206.836†	7.1	-0.00404	mg/L	0.003211	-0.00404	mg/L	0.003211	79.40%
Se 196.026†	2100.1	1.997	mg/L	0.0145	1.997	mg/L	0.0145	0.73%
Si 288.158†	17915.1	13.75	mg/L	0.115	13.75	mg/L	0.115	0.84%
Sn 189.927†	-62.7	-0.01046	mg/L	0.001064	-0.01046	mg/L	0.001064	10.18%
Sr 421.552†	519283.5	1.044	mg/L	0.0037	1.044	mg/L	0.0037	0.35%
Ti 334.903†	89.6	0.00079	mg/L	0.000408	0.00079	mg/L	0.000408	51.51%
Tl 190.801†	3898.5	1.855	mg/L	0.0018	1.855	mg/L	0.0018	0.10%
V 292.402†	60000.5	0.4914	mg/L	0.00275	0.4914	mg/L	0.00275	0.56%
Zn 206.200†	1046.1	0.4456	mg/L	0.00481	0.4456	mg/L	0.00481	1.08%

Sequence No.: 15

Autosampler Location: 31

Sample ID: RG80 C SWC

Date Collected: 8/11/2010 6:17:30 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 C SWC

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: RG80 C SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2134008.6	102.2	%	0.21			0.20%
ScR 361.383	246325.2	104.0	%	0.33			0.31%
Ag 328.068†	41.6	0.00512	mg/L	0.000545	0.01025 mg/L	0.001090	10.64%
Al 308.215†	102653.1	74.37	mg/L	0.113	148.7 mg/L	0.23	0.15%
As 188.979†	35.7	0.03072	mg/L	0.003716	0.06144 mg/L	0.007432	12.10%
B 249.677†	135.3	0.06209	mg/L	0.001724	0.1242 mg/L	0.00345	2.78%
Ba 233.527†	4784.3	0.5880	mg/L	0.00273	1.176 mg/L	0.0055	0.46%
Be 313.042†	505.7	0.00081	mg/L	0.000039	0.00163 mg/L	0.000078	4.78%
Ca 317.933†	427996.0	45.06	mg/L	0.026	90.11 mg/L	0.052	0.06%
Cd 228.802†	1244.5	0.02250	mg/L	0.000097	0.04499 mg/L	0.000194	0.43%
Co 228.616†	2865.8	0.04648	mg/L	0.000202	0.09296 mg/L	0.000404	0.43%
Cr 267.716†	1815.7	0.4508	mg/L	0.00037	0.9015 mg/L	0.00074	0.08%
Cu 324.752†	141344.0	0.6630	mg/L	0.00568	1.326 mg/L	0.0114	0.86%
Fe 273.955†	168631.2	142.4	mg/L	1.01	284.8 mg/L	2.02	0.71%
K 766.490†	13146.9	4.909	mg/L	0.0116	9.819 mg/L	0.0232	0.24%
Mg 279.077†	29042.4	25.90	mg/L	0.045	51.80 mg/L	0.090	0.17%
Mn 257.610†	77286.0	1.944	mg/L	0.0041	3.889 mg/L	0.0082	0.21%
Mo 202.031†	337.9	0.02948	mg/L	0.000503	0.05896 mg/L	0.001006	1.71%
Na 589.592†	22051.4	3.547	mg/L	0.0044	7.094 mg/L	0.0088	0.12%
Na 330.237†	141.1	4.405	mg/L	0.2857	8.811 mg/L	0.5715	6.49%
Ni 231.604†	491.9	0.2665	mg/L	0.00169	0.5331 mg/L	0.00338	0.63%
Pb 220.353†	6358.0	0.8103	mg/L	0.00098	1.621 mg/L	0.0020	0.12%
Sb 206.836†	91.9	0.00558	mg/L	0.002578	0.01117 mg/L	0.005155	46.15%
Se 196.026†	-55.3	-0.01602	mg/L	0.002303	-0.03204 mg/L	0.004606	14.38%
Si 288.158†	7066.1	5.425	mg/L	0.0150	10.85 mg/L	0.030	0.28%
Sn 189.927†	101.6	0.03151	mg/L	0.001620	0.06302 mg/L	0.003240	5.14%
Sr 421.552†	114178.2	0.2296	mg/L	0.00062	0.4592 mg/L	0.00125	0.27%
Ti 334.903†	89804.9	4.487	mg/L	0.0022	8.974 mg/L	0.0043	0.05%
Tl 190.801†	-10.3	-0.01715	mg/L	0.004178	-0.03430 mg/L	0.008355	24.36%
V 292.402†	40302.1	0.3102	mg/L	0.00240	0.6205 mg/L	0.00479	0.77%
Zn 206.200†	17001.1	7.193	mg/L	0.0212	14.39 mg/L	0.042	0.30%

Sequence No.: 16
 Sample ID: RG80 U SWC

Autosampler Location: 32
 Date Collected: 8/11/2010 6:23:33 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 U SWC

Analyte Back Pressure Flow
 All 180.0 kPa 0.55 L/min

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Mean Data: RG80 U SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2139067.6	102.5	%	1.03			1.01%
ScR 361.383	248930.0	105.1	%	0.62			0.59%
Ag 328.068†	10549.6	0.07159	mg/L	0.000898	0.1432	mg/L	1.25%
Al 308.215†	109692.0	79.46	mg/L	0.838	158.9	mg/L	1.05%
As 188.979†	215.2	0.1479	mg/L	0.00560	0.2958	mg/L	3.79%
B 249.677†	84.8	0.03842	mg/L	0.000450	0.07683	mg/L	1.17%
Ba 233.527†	4024.6	0.4772	mg/L	0.00233	0.9543	mg/L	0.49%
Be 313.042†	680.0	0.00064	mg/L	0.000058	0.00129	mg/L	8.99%
Ca 317.933†	400532.1	42.17	mg/L	0.508	84.33	mg/L	1.20%
Cd 228.802†	2737.3	0.04948	mg/L	0.000734	0.09895	mg/L	1.48%
Co 228.616†	5791.4	0.09631	mg/L	0.001773	0.1926	mg/L	1.84%
Cr 267.716†	6587.8	1.639	mg/L	0.0093	3.277	mg/L	0.57%
Cu 324.752†	728911.9	3.401	mg/L	0.0073	6.801	mg/L	0.21%
Fe 273.955†	575270.0	485.8	mg/L	5.78	971.5	mg/L	1.19%
K 766.490†	11395.8	4.255	mg/L	0.0553	8.511	mg/L	1.30%
Mg 279.077†	36204.0	32.10	mg/L	0.121	64.21	mg/L	0.38%
Mn 257.610†	164031.7	4.128	mg/L	0.0446	8.256	mg/L	1.08%
Mo 202.031†	1173.2	0.1032	mg/L	0.00230	0.2064	mg/L	2.23%
Na 589.592†	23379.9	3.761	mg/L	0.0337	7.521	mg/L	0.90%
Na 330.237†	140.7	3.675	mg/L	0.2060	7.350	mg/L	5.61%
Ni 231.604†	2025.9	1.098	mg/L	0.0021	2.195	mg/L	0.19%
Pb 220.353†	34658.1	4.343	mg/L	0.0155	8.686	mg/L	0.36%
Sb 206.836†	312.0	0.04895	mg/L	0.004572	0.09791	mg/L	9.34%
Se 196.026†	-144.4	-0.04499	mg/L	0.001931	-0.08998	mg/L	4.29%
Si 288.158†	8086.2	6.210	mg/L	0.0289	12.42	mg/L	0.47%
Sn 189.927†	1742.3	0.4628	mg/L	0.00634	0.9256	mg/L	1.37%
Sr 421.552†	115193.6	0.2316	mg/L	0.00243	0.4632	mg/L	1.05%
Ti 334.903†	155897.6	7.790	mg/L	0.0913	15.58	mg/L	1.17%
Tl 190.801†	-59.3	-0.05113	mg/L	0.001047	-0.1023	mg/L	2.05%
V 292.402†	74606.3	0.5541	mg/L	0.00179	1.108	mg/L	0.32%
Zn 206.200†	27650.7	11.70	mg/L	0.125	23.39	mg/L	1.06%

Sequence No.: 17

Autosampler Location: 33

Sample ID: RG80 MBSPK SWC

Date Collected: 8/11/2010 6:29:27 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG80 MBSPK SWC

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: RG80 MBSPK SWC

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2147646.0	102.9 %	0.49			0.48%
ScR 361.383	248270.5	104.8 %	0.21			0.20%
Ag 328.068†	93659.6	0.4761 mg/L	0.00178	0.9522 mg/L	0.00356	0.37%
Al 308.215†	2711.2	1.958 mg/L	0.0054	3.915 mg/L	0.0109	0.28%
As 188.979†	3135.4	1.951 mg/L	0.0224	3.901 mg/L	0.0448	1.15%
B 249.677†	-2.7	-0.00273 mg/L	0.001365	-0.00546 mg/L	0.002731	50.05%
Ba 233.527†	15071.5	1.874 mg/L	0.0066	3.747 mg/L	0.0133	0.35%
Be 313.042†	142887.8	0.4858 mg/L	0.00110	0.9716 mg/L	0.00220	0.23%
Ca 317.933†	92483.1	9.736 mg/L	0.0286	19.47 mg/L	0.057	0.29%
Cd 228.802†	26901.0	0.4821 mg/L	0.00291	0.9643 mg/L	0.00582	0.60%
Co 228.616†	24397.4	0.4629 mg/L	0.00208	0.9258 mg/L	0.00416	0.45%
Cr 267.716†	1930.2	0.4776 mg/L	0.00242	0.9551 mg/L	0.00485	0.51%
Cu 324.752†	103087.8	0.4754 mg/L	0.00211	0.9509 mg/L	0.00423	0.44%
Fe 273.955†	2327.1	1.965 mg/L	0.0069	3.929 mg/L	0.0137	0.35%
K 766.490†	26435.0	9.871 mg/L	0.0140	19.74 mg/L	0.028	0.14%
Mg 279.077†	10863.5	9.718 mg/L	0.0464	19.44 mg/L	0.093	0.48%
Mn 257.610†	18748.5	0.4723 mg/L	0.00208	0.9445 mg/L	0.00415	0.44%
Mo 202.031†	13.9	0.00116 mg/L	0.000274	0.00232 mg/L	0.000548	23.65%
Na 589.592†	60507.1	9.733 mg/L	0.0314	19.47 mg/L	0.063	0.32%
Na 330.237†	247.9	10.40 mg/L	0.122	20.80 mg/L	0.244	1.17%
Ni 231.604†	855.8	0.4628 mg/L	0.00379	0.9256 mg/L	0.00758	0.82%
Pb 220.353†	15151.6	1.903 mg/L	0.0066	3.807 mg/L	0.0133	0.35%
Sb 206.836†	2.2	-0.00586 mg/L	0.001315	-0.01172 mg/L	0.002630	22.44%
Se 196.026†	2047.1	1.955 mg/L	0.0242	3.911 mg/L	0.0485	1.24%
Si 288.158†	7.4	0.00747 mg/L	0.003886	0.01494 mg/L	0.007771	52.03%
Sn 189.927†	-12.3	-0.00242 mg/L	0.000783	-0.00485 mg/L	0.001566	32.29%
Sr 421.552†	240089.1	0.4828 mg/L	0.00091	0.9655 mg/L	0.00183	0.19%
Ti 334.903†	-4.5	-0.00072 mg/L	0.000476	-0.00144 mg/L	0.000952	66.11%
Tl 190.801†	3993.4	1.913 mg/L	0.0212	3.827 mg/L	0.0425	1.11%
V 292.402†	58974.7	0.4820 mg/L	0.00231	0.9639 mg/L	0.00462	0.48%
Zn 206.200†	1109.8	0.4697 mg/L	0.00194	0.9395 mg/L	0.00387	0.41%

Sequence No.: 18

Sample ID: CV 2

Autosampler Location: 7

Date Collected: 8/11/2010 6:35:30 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2148770.5	102.9 %	0.42			0.41%
ScR 361.383	250707.4	105.9 %	0.48			0.45%
Ag 328.068†	183855.5	0.9345 mg/L	0.00829	0.9345 mg/L	0.00829	0.89%
Al 308.215†	2726.2	1.939 mg/L	0.0126	1.939 mg/L	0.0126	0.65%
As 188.979†	3081.3	1.917 mg/L	0.0140	1.917 mg/L	0.0140	0.73%
B 249.677†	1995.0	0.9178 mg/L	0.01126	0.9178 mg/L	0.01126	1.23%
Ba 233.527†	7561.3	0.9397 mg/L	0.00482	0.9397 mg/L	0.00482	0.51%
Be 313.042†	279352.2	0.9497 mg/L	0.00197	0.9497 mg/L	0.00197	0.21%
Ca 317.933†	18715.2	1.970 mg/L	0.0095	1.970 mg/L	0.0095	0.48%
Cd 228.802†	54794.2	0.9858 mg/L	0.01068	0.9858 mg/L	0.01068	1.08%
Co 228.616†	49573.3	0.9400 mg/L	0.01064	0.9400 mg/L	0.01064	1.13%
Cr 267.716†	3826.3	0.9472 mg/L	0.00598	0.9472 mg/L	0.00598	0.63%
Cu 324.752†	219264.4	1.011 mg/L	0.0097	1.011 mg/L	0.0097	0.96%
Fe 273.955†	2230.6	1.883 mg/L	0.0140	1.883 mg/L	0.0140	0.74%
K 766.490†	51694.8	19.30 mg/L	0.070	19.30 mg/L	0.070	0.36%
Mg 279.077†	2138.7	1.916 mg/L	0.0129	1.916 mg/L	0.0129	0.67%
Mn 257.610†	37905.8	0.9543 mg/L	0.00167	0.9543 mg/L	0.00167	0.17%
Mo 202.031†	10638.4	0.9436 mg/L	0.00270	0.9436 mg/L	0.00270	0.29%
Na 589.592†	294612.1	47.39 mg/L	0.220	47.39 mg/L	0.220	0.46%
Na 330.237†	1146.6	48.98 mg/L	0.264	48.98 mg/L	0.264	0.54%
Ni 231.604†	1737.3	0.9420 mg/L	0.00599	0.9420 mg/L	0.00599	0.64%
Pb 220.353†	15258.8	1.917 mg/L	0.0228	1.917 mg/L	0.0228	1.19%
Sb 206.836†	4175.8	2.050 mg/L	0.0121	2.050 mg/L	0.0121	0.59%
Se 196.026†	1997.4	1.907 mg/L	0.0189	1.907 mg/L	0.0189	0.99%
Si 288.158†	2645.3	2.032 mg/L	0.0096	2.032 mg/L	0.0096	0.47%
Sn 189.927†	3385.1	0.8878 mg/L	0.00318	0.8878 mg/L	0.00318	0.36%
Sr 421.552†	476652.8	0.9584 mg/L	0.00216	0.9584 mg/L	0.00216	0.23%
Ti 334.903†	19140.3	0.9555 mg/L	0.00192	0.9555 mg/L	0.00192	0.20%
Tl 190.801†	3930.7	1.877 mg/L	0.0099	1.877 mg/L	0.0099	0.53%
V 292.402†	115602.9	0.9502 mg/L	0.01062	0.9502 mg/L	0.01062	1.12%
Zn 206.200†	2231.0	0.9430 mg/L	0.00475	0.9430 mg/L	0.00475	0.50%

Sequence No.: 19
 Sample ID: CB 2

Autosampler Location: 1
 Date Collected: 8/11/2010 6:41:31 PM
 Data Type: Original

Dilution: 1X

 Nebulizer Parameters: CB

Analyte Back Pressure Flow
 All 179.0 kPa 0.55 L/min

 Mean Data: CB

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2141006.7	102.6	%	0.42			0.41%
ScR 361.383	241411.5	101.9	%	0.40			0.39%
Ag 328.068†	-4.2	-0.00002	mg/L	0.000124	-0.00002 mg/L	0.000124	586.85%
Al 308.215†	11.1	0.00806	mg/L	0.011926	0.00806 mg/L	0.011926	148.01%
As 188.979†	-1.6	-0.00103	mg/L	0.002433	-0.00103 mg/L	0.002433	237.25%
B 249.677†	1.6	0.00072	mg/L	0.003766	0.00072 mg/L	0.003766	520.10%
Ba 233.527†	-0.1	-0.00002	mg/L	0.000818	-0.00002 mg/L	0.000818	>999.9%
Be 313.042†	21.4	0.00007	mg/L	0.000030	0.00007 mg/L	0.000030	41.07%
Ca 317.933†	9.3	0.00098	mg/L	0.001068	0.00098 mg/L	0.001068	109.04%
Cd 228.802†	0.1	0.00000	mg/L	0.000030	0.00000 mg/L	0.000030	642.87%
Co 228.616†	3.1	0.00006	mg/L	0.000155	0.00006 mg/L	0.000155	264.31%
Cr 267.716†	5.8	0.00144	mg/L	0.000676	0.00144 mg/L	0.000676	47.01%
Cu 324.752†	277.8	0.00128	mg/L	0.000394	0.00128 mg/L	0.000394	30.77%
Fe 273.955†	4.8	0.00402	mg/L	0.001439	0.00402 mg/L	0.001439	35.83%
K 766.490†	-106.4	-0.03972	mg/L	0.008080	-0.03972 mg/L	0.008080	20.34%
Mg 279.077†	0.6	0.00055	mg/L	0.006045	0.00055 mg/L	0.006045	>999.9%
Mn 257.610†	8.3	0.00021	mg/L	0.000095	0.00021 mg/L	0.000095	45.69%
Mo 202.031†	6.2	0.00055	mg/L	0.000263	0.00055 mg/L	0.000263	47.74%
Na 589.592†	105.3	0.01694	mg/L	0.005568	0.01694 mg/L	0.005568	32.87%
Na 330.237†	19.2	0.8225	mg/L	0.40125	0.8225 mg/L	0.40125	48.79%
Ni 231.604†	4.0	0.00216	mg/L	0.001551	0.00216 mg/L	0.001551	71.75%
Pb 220.353†	6.5	0.00082	mg/L	0.001397	0.00082 mg/L	0.001397	169.83%
Sb 206.836†	-9.4	-0.00465	mg/L	0.001506	-0.00465 mg/L	0.001506	32.37%
Se 196.026†	0.0	0.00000	mg/L	0.000561	0.00000 mg/L	0.000561	>999.9%
Si 288.158†	6.3	0.00482	mg/L	0.004549	0.00482 mg/L	0.004549	94.31%
Sn 189.927†	0.6	0.00015	mg/L	0.000894	0.00015 mg/L	0.000894	581.51%
Sr 421.552†	-13.9	-0.00003	mg/L	0.000089	-0.00003 mg/L	0.000089	318.76%
Ti 334.903†	-0.6	-0.00003	mg/L	0.000518	-0.00003 mg/L	0.000518	>999.9%
Tl 190.801†	-0.1	-0.00006	mg/L	0.000987	-0.00006 mg/L	0.000987	>999.9%
V 292.402†	-28.3	-0.00022	mg/L	0.000114	-0.00022 mg/L	0.000114	52.32%
Zn 206.200†	2.6	0.00111	mg/L	0.000586	0.00111 mg/L	0.000586	53.02%

Sequence No.: 20

Autosampler Location: 34

Sample ID: RG64 MB2 WMN

Date Collected: 8/11/2010 6:47:29 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 MB2 WMN

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: RG64 MB2 WMN

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2201186.3	105.4	%	0.14			0.13%
ScR 361.383	249476.2	105.3	%	0.67			0.63%
Ag 328.068†	-1.7	-0.00001	mg/L	0.000176	-0.00001	mg/L	0.000176 >999.9%
Al 308.215†	13.6	0.00989	mg/L	0.009595	0.00989	mg/L	0.009595 97.02%
As 188.979†	-3.6	-0.00224	mg/L	0.001376	-0.00224	mg/L	0.001376 61.31%
B 249.677†	-7.9	-0.00365	mg/L	0.000133	-0.00365	mg/L	0.000133 3.65%
Ba 233.527†	-1.6	-0.00020	mg/L	0.000044	-0.00020	mg/L	0.000044 21.57%
Be 313.042†	-2.9	-0.00001	mg/L	0.000011	-0.00001	mg/L	0.000011 124.43%
Ca 317.933†	6.2	0.00065	mg/L	0.001229	0.00065	mg/L	0.001229 189.57%
Cd 228.802†	-4.5	-0.00008	mg/L	0.000075	-0.00008	mg/L	0.000075 97.78%
Co 228.616†	8.4	0.00016	mg/L	0.000072	0.00016	mg/L	0.000072 44.91%
Cr 267.716†	2.4	0.00060	mg/L	0.001362	0.00060	mg/L	0.001362 226.44%
Cu 324.752†	-624.2	-0.00288	mg/L	0.000153	-0.00288	mg/L	0.000153 5.31%
Fe 273.955†	-13.6	-0.01147	mg/L	0.001791	-0.01147	mg/L	0.001791 15.61%
K 766.490†	-193.2	-0.07215	mg/L	0.024802	-0.07215	mg/L	0.024802 34.37%
Mg 279.077†	4.5	0.00400	mg/L	0.002178	0.00400	mg/L	0.002178 54.48%
Mn 257.610†	-7.1	-0.00018	mg/L	0.000086	-0.00018	mg/L	0.000086 48.03%
Mo 202.031†	-3.6	-0.00032	mg/L	0.000478	-0.00032	mg/L	0.000478 151.24%
Na 589.592†	-81.3	-0.01308	mg/L	0.006122	-0.01308	mg/L	0.006122 46.79%
Na 330.237†	25.9	1.110	mg/L	0.3073	1.110	mg/L	0.3073 27.67%
Ni 231.604†	4.6	0.00246	mg/L	0.002068	0.00246	mg/L	0.002068 84.00%
Pb 220.353†	-12.7	-0.00159	mg/L	0.000365	-0.00159	mg/L	0.000365 22.94%
Sb 206.836†	-15.7	-0.00768	mg/L	0.002095	-0.00768	mg/L	0.002095 27.29%
Se 196.026†	3.0	0.00289	mg/L	0.002230	0.00289	mg/L	0.002230 77.12%
Si 288.158†	-3.8	-0.00289	mg/L	0.003186	-0.00289	mg/L	0.003186 110.21%
Sn 189.927†	14.1	0.00370	mg/L	0.000589	0.00370	mg/L	0.000589 15.92%
Sr 421.552†	-1.6	0.00000	mg/L	0.000016	0.00000	mg/L	0.000016 511.92%
Ti 334.903†	-6.3	-0.00032	mg/L	0.000339	-0.00032	mg/L	0.000339 107.58%
Tl 190.801†	-4.1	-0.00198	mg/L	0.000274	-0.00198	mg/L	0.000274 13.87%
V 292.402†	-42.7	-0.00034	mg/L	0.000121	-0.00034	mg/L	0.000121 35.28%
Zn 206.200†	-1.9	-0.00079	mg/L	0.000810	-0.00079	mg/L	0.000810 102.46%

Sequence No.: 21
Sample ID: RG64 MB1 TWC

Autosampler Location: 35
Date Collected: 8/11/2010 6:53:31 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 MB1 TWC

Analyte Back Pressure Flow
All 179.0 kPa 0.55 L/min

Mean Data: RG64 MB1 TWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2176196.6	104.2	%	0.54			0.52%
ScR 361.383	242639.4	102.5	%	3.42			3.34%
Ag 328.068†	-6.1	-0.00003	mg/L	0.000154	-0.00003 mg/L	0.000154	495.61%
Al 308.215†	-4.2	-0.00301	mg/L	0.013230	-0.00301 mg/L	0.013230	439.68%
As 188.979†	-2.9	-0.00178	mg/L	0.000777	-0.00178 mg/L	0.000777	43.59%
B 249.677†	-9.5	-0.00439	mg/L	0.001653	-0.00439 mg/L	0.001653	37.69%
Ba 233.527†	7.4	0.00091	mg/L	0.000114	0.00091 mg/L	0.000114	12.47%
Be 313.042†	6.0	0.00002	mg/L	0.000115	0.00002 mg/L	0.000115	539.33%
Ca 317.933†	106.7	0.01124	mg/L	0.003001	0.01124 mg/L	0.003001	26.71%
Cd 228.802†	-8.5	-0.00015	mg/L	0.000071	-0.00015 mg/L	0.000071	47.26%
Co 228.616†	0.1	0.00000	mg/L	0.000062	0.00000 mg/L	0.000062	>999.9%
Cr 267.716†	3.5	0.00087	mg/L	0.001535	0.00087 mg/L	0.001535	176.79%
Cu 324.752†	-149.5	-0.00069	mg/L	0.000221	-0.00069 mg/L	0.000221	32.15%
Fe 273.955†	1.2	0.00099	mg/L	0.002630	0.00099 mg/L	0.002630	266.32%
K 766.490†	-45.4	-0.01697	mg/L	0.042426	-0.01697 mg/L	0.042426	250.02%
Mg 279.077†	0.7	0.00064	mg/L	0.001867	0.00064 mg/L	0.001867	290.29%
Mn 257.610†	10.8	0.00027	mg/L	0.000151	0.00027 mg/L	0.000151	55.44%
Mo 202.031†	-0.4	-0.00003	mg/L	0.000407	-0.00003 mg/L	0.000407	>999.9%
Na 589.592†	35.5	0.00571	mg/L	0.004185	0.00571 mg/L	0.004185	73.28%
Na 330.237†	11.4	0.4877	mg/L	0.38134	0.4877 mg/L	0.38134	78.20%
Ni 231.604†	1.3	0.00068	mg/L	0.002341	0.00068 mg/L	0.002341	342.71%
Pb 220.353†	-9.9	-0.00124	mg/L	0.000577	-0.00124 mg/L	0.000577	46.34%
Sb 206.836†	-9.7	-0.00478	mg/L	0.002836	-0.00478 mg/L	0.002836	59.38%
Se 196.026†	-3.1	-0.00292	mg/L	0.001986	-0.00292 mg/L	0.001986	67.97%
Si 288.158†	12.2	0.00937	mg/L	0.004433	0.00937 mg/L	0.004433	47.30%
Sn 189.927†	1.6	0.00041	mg/L	0.000539	0.00041 mg/L	0.000539	130.45%
Sr 421.552†	-22.9	-0.00005	mg/L	0.000077	-0.00005 mg/L	0.000077	167.74%
Ti 334.903†	-1.6	-0.00008	mg/L	0.000821	-0.00008 mg/L	0.000821	>999.9%
Tl 190.801†	-2.0	-0.00096	mg/L	0.000465	-0.00096 mg/L	0.000465	48.48%
V 292.402†	-37.3	-0.00030	mg/L	0.000166	-0.00030 mg/L	0.000166	55.93%
Zn 206.200†	0.1	0.00006	mg/L	0.000626	0.00006 mg/L	0.000626	>999.9%

Sequence No.: 22
Sample ID: RG64 G TWC

Autosampler Location: 36
Date Collected: 8/11/2010 6:59:33 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 G TWC

Analyte Back Pressure Flow
All 179.0 kPa 0.55 L/min

Mean Data: RG64 G TWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2157076.8	103.3	%	0.77			0.74%
ScR 361.383	249236.8	105.2	%	0.35			0.33%
Ag 328.068†	70.8	0.00013	mg/L	0.000213	0.00013 mg/L	0.000213	159.72%
Al 308.215†	18.5	0.01333	mg/L	0.006238	0.01333 mg/L	0.006238	46.78%
As 188.979†	-5.0	-0.00314	mg/L	0.003045	-0.00314 mg/L	0.003045	97.04%
B 249.677†	120.6	0.05557	mg/L	0.001044	0.05557 mg/L	0.001044	1.88%
Ba 233.527†	73.7	0.00916	mg/L	0.000200	0.00916 mg/L	0.000200	2.18%
Be 313.042†	-15.5	-0.00006	mg/L	0.000053	-0.00006 mg/L	0.000053	89.75%
Ca 317.933†	262745.9	27.66	mg/L	0.014	27.66 mg/L	0.014	0.05%
Cd 228.802†	-7.8	-0.00013	mg/L	0.000004	-0.00013 mg/L	0.000004	3.26%
Co 228.616†	39.3	0.00074	mg/L	0.000167	0.00074 mg/L	0.000167	22.52%
Cr 267.716†	13.0	0.00218	mg/L	0.000499	0.00218 mg/L	0.000499	22.88%
Cu 324.752†	-81.9	-0.00037	mg/L	0.000034	-0.00037 mg/L	0.000034	9.19%
Fe 273.955†	71.0	0.05997	mg/L	0.000538	0.05997 mg/L	0.000538	0.90%
K 766.490†	3723.5	1.390	mg/L	0.0160	1.390 mg/L	0.0160	1.15%
Mg 279.077†	24512.6	21.93	mg/L	0.022	21.93 mg/L	0.022	0.10%
Mn 257.610†	2126.6	0.05351	mg/L	0.000227	0.05351 mg/L	0.000227	0.42%
Mo 202.031†	16.9	0.00150	mg/L	0.000213	0.00150 mg/L	0.000213	14.19%
Na 589.592†	74109.7	11.92	mg/L	0.052	11.92 mg/L	0.052	0.44%
Na 330.237†	295.5	12.47	mg/L	0.390	12.47 mg/L	0.390	3.13%
Ni 231.604†	11.6	0.00630	mg/L	0.001603	0.00630 mg/L	0.001603	25.44%
Pb 220.353†	-11.7	-0.00147	mg/L	0.000179	-0.00147 mg/L	0.000179	12.17%
Sb 206.836†	-10.2	-0.00515	mg/L	0.003570	-0.00515 mg/L	0.003570	69.36%
Se 196.026†	-1.5	-0.00144	mg/L	0.004832	-0.00144 mg/L	0.004832	334.75%
Si 288.158†	19693.2	15.11	mg/L	0.100	15.11 mg/L	0.100	0.66%
Sn 189.927†	-26.6	-0.00488	mg/L	0.000938	-0.00488 mg/L	0.000938	19.23%
Sr 421.552†	95843.8	0.1927	mg/L	0.00028	0.1927 mg/L	0.00028	0.14%
Ti 334.903†	17.7	-0.00020	mg/L	0.000548	-0.00020 mg/L	0.000548	276.43%
Tl 190.801†	-4.2	-0.00209	mg/L	0.001897	-0.00209 mg/L	0.001897	90.81%
V 292.402†	299.8	0.00247	mg/L	0.000169	0.00247 mg/L	0.000169	6.87%
Zn 206.200†	-4.3	-0.00057	mg/L	0.000641	-0.00057 mg/L	0.000641	111.83%

Sequence No.: 23
Sample ID: RG64 H TWC

Autosampler Location: 37
Date Collected: 8/11/2010 7:05:33 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 H TWC

Analyte Back Pressure Flow
All 179.0 kPa 0.55 L/min

Mean Data: RG64 H TWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2142200.5	102.6	%	0.50			0.49%
ScR 361.383	249811.8	105.5	%	0.48			0.46%
Ag 328.068†	426.4	0.00007	mg/L	0.000297	0.00007 mg/L	0.000297	433.82%
Al 308.215†	90.6	0.06560	mg/L	0.003038	0.06560 mg/L	0.003038	4.63%
As 188.979†	-0.3	-0.00021	mg/L	0.000327	-0.00021 mg/L	0.000327	154.53%
B 249.677†	49.6	0.02286	mg/L	0.001550	0.02286 mg/L	0.001550	6.78%
Ba 233.527†	196.1	0.02425	mg/L	0.000943	0.02425 mg/L	0.000943	3.89%
Be 313.042†	-27.6	-0.00009	mg/L	0.000020	-0.00009 mg/L	0.000020	21.98%
Ca 317.933†	722712.7	76.08	mg/L	0.143	76.08 mg/L	0.143	0.19%
Cd 228.802†	-24.1	-0.00043	mg/L	0.000003	-0.00043 mg/L	0.000003	0.67%
Co 228.616†	204.2	0.00387	mg/L	0.000021	0.00387 mg/L	0.000021	0.54%
Cr 267.716†	11.8	0.00098	mg/L	0.000518	0.00098 mg/L	0.000518	52.74%
Cu 324.752†	-138.5	-0.00039	mg/L	0.000098	-0.00039 mg/L	0.000098	25.03%
Fe 273.955†	3300.1	2.787	mg/L	0.0196	2.787 mg/L	0.0196	0.70%
K 766.490†	7548.7	2.819	mg/L	0.0124	2.819 mg/L	0.0124	0.44%
Mg 279.077†	28103.1	25.14	mg/L	0.060	25.14 mg/L	0.060	0.24%
Mn 257.610†	363001.9	9.134	mg/L	0.0108	9.134 mg/L	0.0108	0.12%
Mo 202.031†	20.8	0.00185	mg/L	0.000359	0.00185 mg/L	0.000359	19.45%
Na 589.592†	87361.8	14.05	mg/L	0.028	14.05 mg/L	0.028	0.20%
Na 330.237†	373.9	15.51	mg/L	0.446	15.51 mg/L	0.446	2.88%
Ni 231.604†	9.1	0.00494	mg/L	0.001276	0.00494 mg/L	0.001276	25.81%
Pb 220.353†	-14.1	-0.00193	mg/L	0.001631	-0.00193 mg/L	0.001631	84.46%
Sb 206.836†	-13.7	-0.00738	mg/L	0.002603	-0.00738 mg/L	0.002603	35.29%
Se 196.026†	-6.2	-0.01438	mg/L	0.003290	-0.01438 mg/L	0.003290	22.88%
Si 288.158†	17609.7	13.51	mg/L	0.027	13.51 mg/L	0.027	0.20%
Sn 189.927†	-52.5	-0.00894	mg/L	0.000541	-0.00894 mg/L	0.000541	6.06%
Sr 421.552†	257617.3	0.5180	mg/L	0.00013	0.5180 mg/L	0.00013	0.02%
Ti 334.903†	78.2	0.00094	mg/L	0.000888	0.00094 mg/L	0.000888	94.46%
Tl 190.801†	12.9	-0.00588	mg/L	0.002341	-0.00588 mg/L	0.002341	39.79%
V 292.402†	-125.5	0.00001	mg/L	0.000105	0.00001 mg/L	0.000105	>999.9%
Zn 206.200†	-4.7	0.00065	mg/L	0.000975	0.00065 mg/L	0.000975	150.52%

Sequence No.: 24
Sample ID: RG64 J WMN

Autosampler Location: 38
Date Collected: 8/11/2010 7:11:35 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 J WMN

Analyte Back Pressure Flow
All 179.0 kPa 0.55 L/min

Mean Data: RG64 J WMN

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2208928.8	105.8	%	0.29				0.27%
ScR 361.383	254151.7	107.3	%	0.74				0.69%
Ag 328.068†	159.2	0.00015	mg/L	0.000175	0.00015	mg/L	0.000175	119.94%
Al 308.215†	20.8	0.01497	mg/L	0.001689	0.01497	mg/L	0.001689	11.28%
As 188.979†	-7.3	-0.00453	mg/L	0.001337	-0.00453	mg/L	0.001337	29.50%
B 249.677†	31.6	0.01455	mg/L	0.001593	0.01455	mg/L	0.001593	10.95%
Ba 233.527†	142.2	0.01768	mg/L	0.000325	0.01768	mg/L	0.000325	1.84%
Be 313.042†	-23.5	-0.00008	mg/L	0.000004	-0.00008	mg/L	0.000004	5.21%
Ca 317.933†	564322.7	59.41	mg/L	0.303	59.41	mg/L	0.303	0.51%
Cd 228.802†	-18.9	-0.00033	mg/L	0.000064	-0.00033	mg/L	0.000064	19.55%
Co 228.616†	39.8	0.00075	mg/L	0.000081	0.00075	mg/L	0.000081	10.75%
Cr 267.716†	9.6	0.00046	mg/L	0.001587	0.00046	mg/L	0.001587	341.99%
Cu 324.752†	-594.9	-0.00274	mg/L	0.000080	-0.00274	mg/L	0.000080	2.93%
Fe 273.955†	-0.2	-0.00015	mg/L	0.002777	-0.00015	mg/L	0.002777	>999.9%
K 766.490†	8183.0	3.056	mg/L	0.0421	3.056	mg/L	0.0421	1.38%
Mg 279.077†	38373.9	34.33	mg/L	0.200	34.33	mg/L	0.200	0.58%
Mn 257.610†	43100.7	1.085	mg/L	0.0075	1.085	mg/L	0.0075	0.69%
Mo 202.031†	38.8	0.00344	mg/L	0.000065	0.00344	mg/L	0.000065	1.89%
Na 589.592†	70187.2	11.29	mg/L	0.075	11.29	mg/L	0.075	0.67%
Na 330.237†	290.5	12.05	mg/L	0.535	12.05	mg/L	0.535	4.44%
Ni 231.604†	29.2	0.01581	mg/L	0.002281	0.01581	mg/L	0.002281	14.43%
Pb 220.353†	-23.9	-0.00299	mg/L	0.000926	-0.00299	mg/L	0.000926	30.97%
Sb 206.836†	-20.8	-0.01033	mg/L	0.000983	-0.01033	mg/L	0.000983	9.51%
Se 196.026†	-5.6	-0.00647	mg/L	0.005142	-0.00647	mg/L	0.005142	79.50%
Si 288.158†	24845.0	19.07	mg/L	0.161	19.07	mg/L	0.161	0.84%
Sn 189.927†	-21.3	-0.00141	mg/L	0.001516	-0.00141	mg/L	0.001516	107.86%
Sr 421.552†	132058.7	0.2655	mg/L	0.00193	0.2655	mg/L	0.00193	0.73%
Ti 334.903†	6.4	-0.00200	mg/L	0.000574	-0.00200	mg/L	0.000574	28.66%
Tl 190.801†	-8.4	-0.00545	mg/L	0.002992	-0.00545	mg/L	0.002992	54.85%
V 292.402†	-22.2	0.00001	mg/L	0.000129	0.00001	mg/L	0.000129	921.82%
Zn 206.200†	-16.8	-0.00469	mg/L	0.001451	-0.00469	mg/L	0.001451	30.91%

Sequence No.: 25

Sample ID: RG64 MDUP WMN

Autosampler Location: 39

Date Collected: 8/11/2010 7:17:37 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 MDUP WMN

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: RG64 MDUP WMN

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2183644.0	104.6	%	0.60				0.58%
ScR 361.383	258314.4	109.1	%	0.70				0.65%
Ag 328.068†	434.2	-0.00002	mg/L	0.000208	-0.00002	mg/L	0.000208	>999.9%
Al 308.215†	33.2	0.02402	mg/L	0.012345	0.02402	mg/L	0.012345	51.40%
As 188.979†	-0.5	-0.00029	mg/L	0.001156	-0.00029	mg/L	0.001156	396.39%
B 249.677†	48.2	0.02221	mg/L	0.001027	0.02221	mg/L	0.001027	4.63%
Ba 233.527†	194.0	0.02403	mg/L	0.000240	0.02403	mg/L	0.000240	1.00%
Be 313.042†	-28.9	-0.00010	mg/L	0.000012	-0.00010	mg/L	0.000012	12.67%
Ca 317.933†	752491.1	79.22	mg/L	0.404	79.22	mg/L	0.404	0.51%
Cd 228.802†	-23.6	-0.00042	mg/L	0.000075	-0.00042	mg/L	0.000075	17.70%
Co 228.616†	209.6	0.00397	mg/L	0.000049	0.00397	mg/L	0.000049	1.24%
Cr 267.716†	14.0	0.00144	mg/L	0.000457	0.00144	mg/L	0.000457	31.77%
Cu 324.752†	-670.3	-0.00291	mg/L	0.000047	-0.00291	mg/L	0.000047	1.63%
Fe 273.955†	2350.8	1.985	mg/L	0.0207	1.985	mg/L	0.0207	1.04%
K 766.490†	7763.0	2.899	mg/L	0.0166	2.899	mg/L	0.0166	0.57%
Mg 279.077†	29178.8	26.10	mg/L	0.209	26.10	mg/L	0.209	0.80%
Mn 257.610†	378629.0	9.527	mg/L	0.0185	9.527	mg/L	0.0185	0.19%
Mo 202.031†	23.5	0.00208	mg/L	0.000256	0.00208	mg/L	0.000256	12.26%
Na 589.592†	91396.7	14.70	mg/L	0.041	14.70	mg/L	0.041	0.28%
Na 330.237†	383.5	15.90	mg/L	0.262	15.90	mg/L	0.262	1.65%
Ni 231.604†	8.3	0.00448	mg/L	0.001542	0.00448	mg/L	0.001542	34.41%
Pb 220.353†	-26.8	-0.00348	mg/L	0.000724	-0.00348	mg/L	0.000724	20.80%
Sb 206.836†	-23.9	-0.01223	mg/L	0.002031	-0.01223	mg/L	0.002031	16.60%
Se 196.026†	-0.4	-0.00932	mg/L	0.004951	-0.00932	mg/L	0.004951	53.15%
Si 288.158†	18691.4	14.34	mg/L	0.078	14.34	mg/L	0.078	0.55%
Sn 189.927†	-35.1	-0.00419	mg/L	0.001209	-0.00419	mg/L	0.001209	28.82%
Sr 421.552†	269706.4	0.5423	mg/L	0.00121	0.5423	mg/L	0.00121	0.22%
Ti 334.903†	27.3	-0.00173	mg/L	0.000264	-0.00173	mg/L	0.000264	15.25%
Tl 190.801†	15.3	-0.00525	mg/L	0.002939	-0.00525	mg/L	0.002939	55.97%
V 292.402†	-166.4	-0.00017	mg/L	0.000061	-0.00017	mg/L	0.000061	36.60%
Zn 206.200†	-11.7	-0.00219	mg/L	0.000765	-0.00219	mg/L	0.000765	34.91%

Sequence No.: 26
Sample ID: RG64 M WMN

Autosampler Location: 40
Date Collected: 8/11/2010 7:23:56 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 M WMN

Analyte Back Pressure Flow
All 179.0 kPa 0.55 L/min

Mean Data: RG64 M WMN

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2211606.0	105.9 %		0.77			0.73%
ScR 361.383	256249.5	108.2 %		0.10			0.10%
Ag 328.068†	461.5	0.00012 mg/L		0.000182	0.00012 mg/L	0.000182	155.55%
Al 308.215†	26.4	0.01908 mg/L		0.002759	0.01908 mg/L	0.002759	14.46%
As 188.979†	-2.0	-0.00125 mg/L		0.002270	-0.00125 mg/L	0.002270	181.55%
B 249.677†	47.4	0.02183 mg/L		0.002882	0.02183 mg/L	0.002882	13.20%
Ba 233.527†	201.3	0.02493 mg/L		0.000311	0.02493 mg/L	0.000311	1.25%
Be 313.042†	-20.6	-0.00007 mg/L		0.000006	-0.00007 mg/L	0.000006	9.32%
Ca 317.933†	753688.7	79.34 mg/L		0.278	79.34 mg/L	0.278	0.35%
Cd 228.802†	-22.3	-0.00040 mg/L		0.000131	-0.00040 mg/L	0.000131	32.86%
Co 228.616†	218.0	0.00413 mg/L		0.000086	0.00413 mg/L	0.000086	2.08%
Cr 267.716†	19.9	0.00288 mg/L		0.000481	0.00288 mg/L	0.000481	16.71%
Cu 324.752†	-696.3	-0.00303 mg/L		0.000054	-0.00303 mg/L	0.000054	1.80%
Fe 273.955†	2335.2	1.972 mg/L		0.0129	1.972 mg/L	0.0129	0.66%
K 766.490†	7742.4	2.891 mg/L		0.0275	2.891 mg/L	0.0275	0.95%
Mg 279.077†	29516.9	26.41 mg/L		0.103	26.41 mg/L	0.103	0.39%
Mn 257.610†	379267.4	9.543 mg/L		0.0260	9.543 mg/L	0.0260	0.27%
Mo 202.031†	23.2	0.00206 mg/L		0.000318	0.00206 mg/L	0.000318	15.45%
Na 589.592†	91791.4	14.76 mg/L		0.012	14.76 mg/L	0.012	0.08%
Na 330.237†	386.8	16.04 mg/L		0.360	16.04 mg/L	0.360	2.24%
Ni 231.604†	12.8	0.00691 mg/L		0.001872	0.00691 mg/L	0.001872	27.11%
Pb 220.353†	-27.7	-0.00359 mg/L		0.001168	-0.00359 mg/L	0.001168	32.57%
Sb 206.836†	-21.6	-0.01117 mg/L		0.001167	-0.01117 mg/L	0.001167	10.45%
Se 196.026†	8.4	-0.00096 mg/L		0.004704	-0.00096 mg/L	0.004704	491.66%
Si 288.158†	18946.5	14.54 mg/L		0.050	14.54 mg/L	0.050	0.34%
Sn 189.927†	-45.1	-0.00679 mg/L		0.000458	-0.00679 mg/L	0.000458	6.74%
Sr 421.552†	270167.2	0.5432 mg/L		0.00191	0.5432 mg/L	0.00191	0.35%
Ti 334.903†	46.0	-0.00080 mg/L		0.001046	-0.00080 mg/L	0.001046	130.71%
Tl 190.801†	15.9	-0.00496 mg/L		0.000999	-0.00496 mg/L	0.000999	20.12%
V 292.402†	-185.9	-0.00031 mg/L		0.000102	-0.00031 mg/L	0.000102	32.66%
Zn 206.200†	-13.0	-0.00275 mg/L		0.001736	-0.00275 mg/L	0.001736	63.12%

Sequence No.: 27
 Sample ID: RG64 MSPK WMN

Autosampler Location: 41
 Date Collected: 8/11/2010 7:30:14 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 MSPK WMN

Analyte Back Pressure Flow
 All 179.0 kPa 0.55 L/min

Mean Data: RG64 MSPK WMN

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2178281.7	104.3	%	0.49			0.47%
ScR 361.383	253128.0	106.9	%	0.55			0.52%
Ag 328.068†	80743.6	0.4083	mg/L	0.01438	0.4083 mg/L	0.01438	3.52%
Al 308.215†	2839.9	2.051	mg/L	0.0118	2.051 mg/L	0.0118	0.58%
As 188.979†	3340.8	2.078	mg/L	0.0141	2.078 mg/L	0.0141	0.68%
B 249.677†	52.1	0.02247	mg/L	0.001878	0.02247 mg/L	0.001878	8.36%
Ba 233.527†	15462.2	1.922	mg/L	0.0138	1.922 mg/L	0.0138	0.72%
Be 313.042†	144576.6	0.4915	mg/L	0.00157	0.4915 mg/L	0.00157	0.32%
Ca 317.933†	828012.8	87.17	mg/L	0.365	87.17 mg/L	0.365	0.42%
Cd 228.802†	28653.0	0.5135	mg/L	0.00118	0.5135 mg/L	0.00118	0.23%
Co 228.616†	25032.1	0.4750	mg/L	0.00054	0.4750 mg/L	0.00054	0.11%
Cr 267.716†	1990.9	0.4906	mg/L	0.00235	0.4906 mg/L	0.00235	0.48%
Cu 324.752†	102370.6	0.4723	mg/L	0.00026	0.4723 mg/L	0.00026	0.05%
Fe 273.955†	4627.5	3.907	mg/L	0.0232	3.907 mg/L	0.0232	0.59%
K 766.490†	34931.2	13.04	mg/L	0.037	13.04 mg/L	0.037	0.29%
Mg 279.077†	39810.8	35.61	mg/L	0.172	35.61 mg/L	0.172	0.48%
Mn 257.610†	392064.0	9.866	mg/L	0.0350	9.866 mg/L	0.0350	0.35%
Mo 202.031†	27.8	0.00239	mg/L	0.000485	0.00239 mg/L	0.000485	20.30%
Na 589.592†	152121.8	24.47	mg/L	0.088	24.47 mg/L	0.088	0.36%
Na 330.237†	612.9	25.52	mg/L	0.094	25.52 mg/L	0.094	0.37%
Ni 231.604†	859.8	0.4649	mg/L	0.00343	0.4649 mg/L	0.00343	0.74%
Pb 220.353†	15428.2	1.938	mg/L	0.0055	1.938 mg/L	0.0055	0.29%
Sb 206.836†	-3.5	-0.00931	mg/L	0.000482	-0.00931 mg/L	0.000482	5.17%
Se 196.026†	2319.8	2.207	mg/L	0.0288	2.207 mg/L	0.0288	1.31%
Si 288.158†	18599.8	14.28	mg/L	0.103	14.28 mg/L	0.103	0.72%
Sn 189.927†	-53.7	-0.00837	mg/L	0.000685	-0.00837 mg/L	0.000685	8.19%
Sr 421.552†	510150.4	1.026	mg/L	0.0030	1.026 mg/L	0.0030	0.29%
Ti 334.903†	36.8	-0.00168	mg/L	0.000655	-0.00168 mg/L	0.000655	39.06%
Tl 190.801†	4124.2	1.964	mg/L	0.0159	1.964 mg/L	0.0159	0.81%
V 292.402†	60692.0	0.4972	mg/L	0.00160	0.4972 mg/L	0.00160	0.32%
Zn 206.200†	1053.8	0.4487	mg/L	0.00360	0.4487 mg/L	0.00360	0.80%

Sequence No.: 28
 Sample ID: RG64 MB2SPK WMN

Autosampler Location: 42
 Date Collected: 8/11/2010 7:36:18 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 MB2SPK WMN

Analyte Back Pressure Flow
 All 179.0 kPa 0.55 L/min

Mean Data: RG64 MB2SPK WMN

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2216011.3	106.1 %	%	0.55			0.52%
ScR 361.383	256770.0	108.4 %	%	0.40			0.37%
Ag 328.068†	85658.9	0.4354 mg/L	mg/L	0.00802	0.4354 mg/L	0.00802	1.84%
Al 308.215†	2791.2	2.015 mg/L	mg/L	0.0130	2.015 mg/L	0.0130	0.64%
As 188.979†	3284.3	2.043 mg/L	mg/L	0.0136	2.043 mg/L	0.0136	0.67%
B 249.677†	-6.9	-0.00479 mg/L	mg/L	0.001673	-0.00479 mg/L	0.001673	34.96%
Ba 233.527†	15607.7	1.940 mg/L	mg/L	0.0072	1.940 mg/L	0.0072	0.37%
Be 313.042†	145978.6	0.4963 mg/L	mg/L	0.00257	0.4963 mg/L	0.00257	0.52%
Ca 317.933†	93650.9	9.859 mg/L	mg/L	0.0478	9.859 mg/L	0.0478	0.48%
Cd 228.802†	28834.3	0.5169 mg/L	mg/L	0.00590	0.5169 mg/L	0.00590	1.14%
Co 228.616†	25844.8	0.4904 mg/L	mg/L	0.00478	0.4904 mg/L	0.00478	0.98%
Cr 267.716†	1994.2	0.4934 mg/L	mg/L	0.00259	0.4934 mg/L	0.00259	0.53%
Cu 324.752†	106305.4	0.4903 mg/L	mg/L	0.00334	0.4903 mg/L	0.00334	0.68%
Fe 273.955†	2341.0	1.976 mg/L	mg/L	0.0031	1.976 mg/L	0.0031	0.16%
K 766.490†	26979.1	10.07 mg/L	mg/L	0.023	10.07 mg/L	0.023	0.23%
Mg 279.077†	10954.4	9.800 mg/L	mg/L	0.0173	9.800 mg/L	0.0173	0.18%
Mn 257.610†	19539.5	0.4922 mg/L	mg/L	0.00095	0.4922 mg/L	0.00095	0.19%
Mo 202.031†	7.9	0.00062 mg/L	mg/L	0.000088	0.00062 mg/L	0.000088	14.07%
Na 589.592†	61740.0	9.931 mg/L	mg/L	0.0309	9.931 mg/L	0.0309	0.31%
Na 330.237†	258.4	10.84 mg/L	mg/L	0.463	10.84 mg/L	0.463	4.27%
Ni 231.604†	904.8	0.4893 mg/L	mg/L	0.00495	0.4893 mg/L	0.00495	1.01%
Pb 220.353†	15788.0	1.983 mg/L	mg/L	0.0175	1.983 mg/L	0.0175	0.88%
Sb 206.836†	-3.6	-0.00892 mg/L	mg/L	0.002190	-0.00892 mg/L	0.002190	24.57%
Se 196.026†	2314.4	2.211 mg/L	mg/L	0.0147	2.211 mg/L	0.0147	0.67%
Si 288.158†	-5.6	-0.00251 mg/L	mg/L	0.003149	-0.00251 mg/L	0.003149	125.53%
Sn 189.927†	-11.2	-0.00214 mg/L	mg/L	0.000381	-0.00214 mg/L	0.000381	17.82%
Sr 421.552†	244760.0	0.4921 mg/L	mg/L	0.00069	0.4921 mg/L	0.00069	0.14%
Ti 334.903†	-24.1	-0.00170 mg/L	mg/L	0.000307	-0.00170 mg/L	0.000307	18.00%
Tl 190.801†	4206.9	2.016 mg/L	mg/L	0.0150	2.016 mg/L	0.0150	0.74%
V 292.402†	60698.8	0.4961 mg/L	mg/L	0.00376	0.4961 mg/L	0.00376	0.76%
Zn 206.200†	1139.2	0.4822 mg/L	mg/L	0.00264	0.4822 mg/L	0.00264	0.55%

Sequence No.: 29
 Sample ID: RG64 MB1SPK TWC

Autosampler Location: 43
 Date Collected: 8/11/2010 7:42:20 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 MB1SPK TWC

Analyte Back Pressure Flow
 All 178.0 kPa 0.55 L/min

Mean Data: RG64 MB1SPK TWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2188226.0	104.8	%	0.27				0.25%
ScR 361.383	246297.0	104.0	%	0.62				0.60%
Ag 328.068†	91907.3	0.4672	mg/L	0.00400	0.4672	mg/L	0.00400	0.86%
Al 308.215†	2685.2	1.939	mg/L	0.0144	1.939	mg/L	0.0144	0.74%
As 188.979†	3070.3	1.910	mg/L	0.0073	1.910	mg/L	0.0073	0.38%
B 249.677†	-5.0	-0.00381	mg/L	0.000890	-0.00381	mg/L	0.000890	23.39%
Ba 233.527†	15067.5	1.873	mg/L	0.0092	1.873	mg/L	0.0092	0.49%
Be 313.042†	140684.7	0.4783	mg/L	0.00159	0.4783	mg/L	0.00159	0.33%
Ca 317.933†	91100.4	9.590	mg/L	0.0416	9.590	mg/L	0.0416	0.43%
Cd 228.802†	26557.6	0.4760	mg/L	0.00473	0.4760	mg/L	0.00473	0.99%
Co 228.616†	24049.8	0.4563	mg/L	0.00459	0.4563	mg/L	0.00459	1.01%
Cr 267.716†	1910.7	0.4727	mg/L	0.00506	0.4727	mg/L	0.00506	1.07%
Cu 324.752†	102660.3	0.4735	mg/L	0.00311	0.4735	mg/L	0.00311	0.66%
Fe 273.955†	2292.3	1.935	mg/L	0.0130	1.935	mg/L	0.0130	0.67%
K 766.490†	26320.9	9.829	mg/L	0.0269	9.829	mg/L	0.0269	0.27%
Mg 279.077†	10844.2	9.701	mg/L	0.0549	9.701	mg/L	0.0549	0.57%
Mn 257.610†	18884.6	0.4757	mg/L	0.00091	0.4757	mg/L	0.00091	0.19%
Mo 202.031†	11.4	0.00094	mg/L	0.000196	0.00094	mg/L	0.000196	20.96%
Na 589.592†	60389.5	9.714	mg/L	0.0154	9.714	mg/L	0.0154	0.16%
Na 330.237†	249.9	10.49	mg/L	0.056	10.49	mg/L	0.056	0.53%
Ni 231.604†	858.7	0.4644	mg/L	0.00403	0.4644	mg/L	0.00403	0.87%
Pb 220.353†	15022.9	1.887	mg/L	0.0209	1.887	mg/L	0.0209	1.11%
Sb 206.836†	1.5	-0.00612	mg/L	0.001656	-0.00612	mg/L	0.001656	27.07%
Se 196.026†	1998.8	1.909	mg/L	0.0057	1.909	mg/L	0.0057	0.30%
Si 288.158†	6.8	0.00696	mg/L	0.000955	0.00696	mg/L	0.000955	13.73%
Sn 189.927†	-12.5	-0.00249	mg/L	0.001276	-0.00249	mg/L	0.001276	51.28%
Sr 421.552†	238332.5	0.4792	mg/L	0.00107	0.4792	mg/L	0.00107	0.22%
Ti 334.903†	-7.9	-0.00088	mg/L	0.000359	-0.00088	mg/L	0.000359	40.77%
Tl 190.801†	3912.0	1.874	mg/L	0.0101	1.874	mg/L	0.0101	0.54%
V 292.402†	58437.2	0.4776	mg/L	0.00396	0.4776	mg/L	0.00396	0.83%
Zn 206.200†	1081.9	0.4579	mg/L	0.00308	0.4579	mg/L	0.00308	0.67%

Sequence No.: 30

Sample ID: CV

Autosampler Location: 7

Date Collected: 8/11/2010 7:48:22 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2163928.7	103.7	%	0.70				0.67%
ScR 361.383	247645.5	104.6	%	0.67				0.64%
Ag 328.068†	178530.8	0.9075	mg/L	0.00264	0.9075	mg/L	0.00264	0.29%
Al 308.215†	2693.0	1.915	mg/L	0.0116	1.915	mg/L	0.0116	0.61%
As 188.979†	3037.6	1.889	mg/L	0.0111	1.889	mg/L	0.0111	0.59%
B 249.677†	1960.5	0.9020	mg/L	0.00183	0.9020	mg/L	0.00183	0.20%
Ba 233.527†	7421.1	0.9223	mg/L	0.00436	0.9223	mg/L	0.00436	0.47%
Be 313.042†	271063.0	0.9215	mg/L	0.00336	0.9215	mg/L	0.00336	0.36%
Ca 317.933†	18207.9	1.917	mg/L	0.0086	1.917	mg/L	0.0086	0.45%
Cd 228.802†	53547.8	0.9633	mg/L	0.00461	0.9633	mg/L	0.00461	0.48%
Co 228.616†	48414.9	0.9180	mg/L	0.00256	0.9180	mg/L	0.00256	0.28%
Cr 267.716†	3739.6	0.9257	mg/L	0.00594	0.9257	mg/L	0.00594	0.64%
Cu 324.752†	214553.4	0.9888	mg/L	0.00434	0.9888	mg/L	0.00434	0.44%
Fe 273.955†	2175.9	1.837	mg/L	0.0103	1.837	mg/L	0.0103	0.56%
K 766.490†	51526.6	19.24	mg/L	0.044	19.24	mg/L	0.044	0.23%
Mg 279.077†	2094.3	1.877	mg/L	0.0082	1.877	mg/L	0.0082	0.44%
Mn 257.610†	37180.1	0.9360	mg/L	0.00282	0.9360	mg/L	0.00282	0.30%
Mo 202.031†	10502.1	0.9315	mg/L	0.00601	0.9315	mg/L	0.00601	0.64%
Na 589.592†	293408.0	47.20	mg/L	0.197	47.20	mg/L	0.197	0.42%
Na 330.237†	1129.0	48.23	mg/L	0.357	48.23	mg/L	0.357	0.74%
Ni 231.604†	1701.1	0.9223	mg/L	0.00859	0.9223	mg/L	0.00859	0.93%
Pb 220.353†	14902.0	1.872	mg/L	0.0078	1.872	mg/L	0.0078	0.42%
Sb 206.836†	4117.2	2.021	mg/L	0.0130	2.021	mg/L	0.0130	0.65%
Se 196.026†	1966.9	1.877	mg/L	0.0080	1.877	mg/L	0.0080	0.42%
Si 288.158†	2625.6	2.017	mg/L	0.0054	2.017	mg/L	0.0054	0.27%
Sn 189.927†	3342.1	0.8765	mg/L	0.00445	0.8765	mg/L	0.00445	0.51%
Sr 421.552†	470531.5	0.9461	mg/L	0.00074	0.9461	mg/L	0.00074	0.08%
Ti 334.903†	18794.8	0.9383	mg/L	0.00221	0.9383	mg/L	0.00221	0.24%
Tl 190.801†	3879.0	1.852	mg/L	0.0076	1.852	mg/L	0.0076	0.41%
V 292.402†	113187.8	0.9304	mg/L	0.00519	0.9304	mg/L	0.00519	0.56%
Zn 206.200†	2160.1	0.9130	mg/L	0.00758	0.9130	mg/L	0.00758	0.83%

Sequence No.: 31

Sample ID: CB 3

Autosampler Location: 1

Date Collected: 8/11/2010 7:54:24 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2172633.1	104.1	%	0.44				0.42%
ScR 361.383	246579.8	104.1	%	0.84				0.81%
Ag 328.068†	7.2	0.00004	mg/L	0.000149	0.00004	mg/L	0.000149	413.18%
Al 308.215†	6.6	0.00480	mg/L	0.002864	0.00480	mg/L	0.002864	59.68%
As 188.979†	-1.4	-0.00086	mg/L	0.002838	-0.00086	mg/L	0.002838	331.01%
B 249.677†	0.3	0.00014	mg/L	0.003265	0.00014	mg/L	0.003265	>999.9%
Ba 233.527†	1.0	0.00013	mg/L	0.000313	0.00013	mg/L	0.000313	247.41%
Be 313.042†	10.7	0.00004	mg/L	0.000044	0.00004	mg/L	0.000044	118.29%
Ca 317.933†	12.5	0.00132	mg/L	0.001424	0.00132	mg/L	0.001424	107.82%
Cd 228.802†	2.4	0.00005	mg/L	0.000085	0.00005	mg/L	0.000085	186.01%
Co 228.616†	5.5	0.00011	mg/L	0.000064	0.00011	mg/L	0.000064	60.51%
Cr 267.716†	1.3	0.00032	mg/L	0.000679	0.00032	mg/L	0.000679	212.87%
Cu 324.752†	137.5	0.00063	mg/L	0.000124	0.00063	mg/L	0.000124	19.56%
Fe 273.955†	0.2	0.00014	mg/L	0.001365	0.00014	mg/L	0.001365	956.94%
K 766.490†	-133.3	-0.04978	mg/L	0.027577	-0.04978	mg/L	0.027577	55.40%
Mg 279.077†	-0.7	-0.00064	mg/L	0.002791	-0.00064	mg/L	0.002791	433.78%
Mn 257.610†	31.1	0.00078	mg/L	0.000022	0.00078	mg/L	0.000022	2.81%
Mo 202.031†	5.5	0.00048	mg/L	0.000116	0.00048	mg/L	0.000116	24.05%
Na 589.592†	179.1	0.02881	mg/L	0.006512	0.02881	mg/L	0.006512	22.60%
Na 330.237†	17.8	0.7625	mg/L	0.18197	0.7625	mg/L	0.18197	23.86%
Ni 231.604†	8.5	0.00462	mg/L	0.001989	0.00462	mg/L	0.001989	43.00%
Pb 220.353†	5.5	0.00069	mg/L	0.000737	0.00069	mg/L	0.000737	107.48%
Sb 206.836†	-14.6	-0.00720	mg/L	0.000385	-0.00720	mg/L	0.000385	5.35%
Se 196.026†	-0.3	-0.00029	mg/L	0.003015	-0.00029	mg/L	0.003015	>999.9%
Si 288.158†	9.5	0.00730	mg/L	0.001525	0.00730	mg/L	0.001525	20.91%
Sn 189.927†	3.0	0.00078	mg/L	0.000910	0.00078	mg/L	0.000910	116.08%
Sr 421.552†	-20.9	-0.00004	mg/L	0.000065	-0.00004	mg/L	0.000065	154.05%
Ti 334.903†	-27.3	-0.00137	mg/L	0.001079	-0.00137	mg/L	0.001079	79.00%
Tl 190.801†	-1.1	-0.00055	mg/L	0.000800	-0.00055	mg/L	0.000800	146.40%
V 292.402†	-34.5	-0.00027	mg/L	0.000093	-0.00027	mg/L	0.000093	34.11%
Zn 206.200†	0.1	0.00003	mg/L	0.000594	0.00003	mg/L	0.000594	>999.9%

Sequence No.: 32
Sample ID: RG87 MB TWC

Autosampler Location: 44
Date Collected: 8/11/2010 8:00:22 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG87 MB TWC

Analyte Back Pressure Flow
All 179.0 kPa 0.55 L/min

Doc

Mean Data: RG87 MB TWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	2222689.2		106.5 %	0.76				0.72%
ScR 361.383	247733.2		104.6 %	0.91				0.87%
Ag 328.068†	39.6	0.00020	mg/L	0.000145	0.00020	mg/L	0.000145	72.33%
Al 308.215†	-5.3	-0.00380	mg/L	0.004925	-0.00380	mg/L	0.004925	129.63%
As 188.979†	-0.5	-0.00032	mg/L	0.001327	-0.00032	mg/L	0.001327	414.87%
B 249.677†	-3.5	-0.00162	mg/L	0.003028	-0.00162	mg/L	0.003028	186.75%
Ba 233.527†	-6.6	-0.00082	mg/L	0.000121	-0.00082	mg/L	0.000121	14.80%
Be 313.042†	-4.5	-0.00001	mg/L	0.000029	-0.00001	mg/L	0.000029	198.22%
Ca 317.933†	99.1	0.01043	mg/L	0.000159	0.01043	mg/L	0.000159	1.52%
Cd 228.802†	-4.9	-0.00009	mg/L	0.000054	-0.00009	mg/L	0.000054	61.41%
Co 228.616†	8.6	0.00017	mg/L	0.000062	0.00017	mg/L	0.000062	37.13%
Cr 267.716†	2.2	0.00054	mg/L	0.001103	0.00054	mg/L	0.001103	205.21%
Cu 324.752†	-107.0	-0.00049	mg/L	0.000142	-0.00049	mg/L	0.000142	28.84%
Fe 273.955†	0.4	0.00038	mg/L	0.003174	0.00038	mg/L	0.003174	837.75%
K 766.490†	-160.0	-0.05973	mg/L	0.018428	-0.05973	mg/L	0.018428	30.85%
Mg 279.077†	-2.5	-0.00221	mg/L	0.001629	-0.00221	mg/L	0.001629	73.81%
Mn 257.610†	33.7	0.00085	mg/L	0.000092	0.00085	mg/L	0.000092	10.90%
Mo 202.031†	-0.9	-0.00008	mg/L	0.000680	-0.00008	mg/L	0.000680	882.52%
Na 589.592†	32.8	0.00527	mg/L	0.000994	0.00527	mg/L	0.000994	18.87%
Na 330.237†	10.9	0.4658	mg/L	0.33450	0.4658	mg/L	0.33450	71.81%
Ni 231.604†	1.1	0.00058	mg/L	0.002030	0.00058	mg/L	0.002030	350.21%
Pb 220.353†	-4.2	-0.00053	mg/L	0.000932	-0.00053	mg/L	0.000932	175.10%
Sb 206.836†	-11.1	-0.00548	mg/L	0.000576	-0.00548	mg/L	0.000576	10.52%
Se 196.026†	0.7	0.00068	mg/L	0.004020	0.00068	mg/L	0.004020	594.84%
Si 288.158†	4.4	0.00334	mg/L	0.004632	0.00334	mg/L	0.004632	138.50%
Sn 189.927†	-0.8	-0.00020	mg/L	0.000843	-0.00020	mg/L	0.000843	423.61%
Sr 421.552†	-42.4	-0.00009	mg/L	0.000092	-0.00009	mg/L	0.000092	107.43%
Ti 334.903†	-29.4	-0.00147	mg/L	0.000888	-0.00147	mg/L	0.000888	60.32%
Tl 190.801†	-4.4	-0.00210	mg/L	0.001535	-0.00210	mg/L	0.001535	73.24%
V 292.402†	-37.3	-0.00030	mg/L	0.000170	-0.00030	mg/L	0.000170	56.91%
Zn 206.200†	-0.4	-0.00018	mg/L	0.000627	-0.00018	mg/L	0.000627	357.78%

Sequence No.: 33
Sample ID: RG87 B TWC

Autosampler Location: 45
Date Collected: 8/11/2010 8:06:23 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG87 B TWC

Analyte Back Pressure Flow
All 178.0 kPa 0.55 L/min

Mean Data: RG87 B TWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2132066.5	102.1	%	0.87				0.86%
ScR 361.383	247053.7	104.3	%	0.89				0.85%
Ag 328.068†	223.7	0.00016	mg/L	0.000340	0.00016	mg/L	0.000340	212.23%
Al 308.215†	20.0	0.01439	mg/L	0.007998	0.01439	mg/L	0.007998	55.59%
As 188.979†	17.6	0.01094	mg/L	0.002842	0.01094	mg/L	0.002842	25.98%
B 249.677†	1453.7	0.6698	mg/L	0.00238	0.6698	mg/L	0.00238	0.36%
Ba 233.527†	782.5	0.09715	mg/L	0.000957	0.09715	mg/L	0.000957	0.98%
Be 313.042†	-20.3	-0.00007	mg/L	0.000029	-0.00007	mg/L	0.000029	39.45%
Ca 317.933†	776434.3	81.74	mg/L	0.148	81.74	mg/L	0.148	0.18%
Cd 228.802†	-2.2	-0.00005	mg/L	0.000038	-0.00005	mg/L	0.000038	72.79%
Co 228.616†	486.9	0.00921	mg/L	0.000016	0.00921	mg/L	0.000016	0.17%
Cr 267.716†	26.9	0.00387	mg/L	0.000549	0.00387	mg/L	0.000549	14.18%
Cu 324.752†	-24.6	0.00016	mg/L	0.000171	0.00016	mg/L	0.000171	110.54%
Fe 273.955†	3560.5	3.006	mg/L	0.0224	3.006	mg/L	0.0224	0.75%
K 766.490†	145019.4	54.15	mg/L	0.198	54.15	mg/L	0.198	0.37%
Mg 279.077†	61516.2	55.03	mg/L	0.400	55.03	mg/L	0.400	0.73%
Mn 257.610†	100363.3	2.525	mg/L	0.0171	2.525	mg/L	0.0171	0.68%
Mo 202.031†	36.6	0.00325	mg/L	0.000149	0.00325	mg/L	0.000149	4.59%
Na 589.592†	1172835.4	188.7	mg/L	0.96	188.7	mg/L	0.96	0.51%
Na 330.237†	4506.9	192.4	mg/L	0.66	192.4	mg/L	0.66	0.35%
Ni 231.604†	51.6	0.02797	mg/L	0.001438	0.02797	mg/L	0.001438	5.14%
Pb 220.353†	-14.6	-0.00202	mg/L	0.001337	-0.00202	mg/L	0.001337	66.17%
Sb 206.836†	-14.3	-0.00773	mg/L	0.000600	-0.00773	mg/L	0.000600	7.76%
Se 196.026†	-5.5	-0.00725	mg/L	0.005681	-0.00725	mg/L	0.005681	78.38%
Si 288.158†	10482.3	8.050	mg/L	0.0257	8.050	mg/L	0.0257	0.32%
Sn 189.927†	-55.2	-0.00851	mg/L	0.000811	-0.00851	mg/L	0.000811	9.53%
Sr 421.552†	339121.5	0.6819	mg/L	0.00191	0.6819	mg/L	0.00191	0.28%
Ti 334.903†	113.1	0.00246	mg/L	0.001752	0.00246	mg/L	0.001752	71.16%
Tl 190.801†	-8.2	-0.00736	mg/L	0.002958	-0.00736	mg/L	0.002958	40.17%
V 292.402†	148.2	0.00128	mg/L	0.000053	0.00128	mg/L	0.000053	4.12%
Zn 206.200†	-4.3	0.00165	mg/L	0.001214	0.00165	mg/L	0.001214	73.49%

Sequence No.: 34
Sample ID: RG64 K WMN

Autosampler Location: 46
Date Collected: 8/11/2010 8:12:44 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 K WMN

Analyte Back Pressure Flow
All 178.0 kPa 0.55 L/min

Mean Data: RG64 K WMN

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2239544.9	107.3	%	0.50				0.46%
ScR 361.383	260728.3	110.1	%	0.77				0.70%
Ag 328.068†	96.3	-0.00016	mg/L	0.000135	-0.00016	mg/L	0.000135	84.84%
Al 308.215†	26.8	0.01922	mg/L	0.004576	0.01922	mg/L	0.004576	23.81%
As 188.979†	-0.1	-0.00006	mg/L	0.001003	-0.00006	mg/L	0.001003	>999.9%
B 249.677†	76.7	0.03537	mg/L	0.002006	0.03537	mg/L	0.002006	5.67%
Ba 233.527†	204.3	0.02540	mg/L	0.000705	0.02540	mg/L	0.000705	2.78%
Be 313.042†	-27.0	-0.00011	mg/L	0.000024	-0.00011	mg/L	0.000024	22.15%
Ca 317.933†	758999.1	79.90	mg/L	0.452	79.90	mg/L	0.452	0.57%
Cd 228.802†	-16.1	-0.00028	mg/L	0.000026	-0.00028	mg/L	0.000026	9.09%
Co 228.616†	64.4	0.00121	mg/L	0.000094	0.00121	mg/L	0.000094	7.75%
Cr 267.716†	18.1	0.00168	mg/L	0.000639	0.00168	mg/L	0.000639	38.01%
Cu 324.752†	-429.8	-0.00197	mg/L	0.000166	-0.00197	mg/L	0.000166	8.41%
Fe 273.955†	136.0	0.1149	mg/L	0.00280	0.1149	mg/L	0.00280	2.44%
K 766.490†	16012.2	5.979	mg/L	0.0504	5.979	mg/L	0.0504	0.84%
Mg 279.077†	61286.8	54.83	mg/L	0.556	54.83	mg/L	0.556	1.01%
Mn 257.610†	4070.2	0.1024	mg/L	0.00116	0.1024	mg/L	0.00116	1.13%
Mo 202.031†	49.3	0.00437	mg/L	0.000199	0.00437	mg/L	0.000199	4.56%
Na 589.592†	106936.7	17.20	mg/L	0.074	17.20	mg/L	0.074	0.43%
Na 330.237†	444.1	18.49	mg/L	0.034	18.49	mg/L	0.034	0.19%
Ni 231.604†	54.2	0.02934	mg/L	0.001986	0.02934	mg/L	0.001986	6.77%
Pb 220.353†	-28.3	-0.00355	mg/L	0.000674	-0.00355	mg/L	0.000674	18.98%
Sb 206.836†	-26.2	-0.01309	mg/L	0.000751	-0.01309	mg/L	0.000751	5.74%
Se 196.026†	-4.8	-0.00470	mg/L	0.006317	-0.00470	mg/L	0.006317	134.50%
Si 288.158†	26082.7	20.02	mg/L	0.183	20.02	mg/L	0.183	0.91%
Sn 189.927†	-47.4	-0.00656	mg/L	0.001532	-0.00656	mg/L	0.001532	23.33%
Sr 421.552†	247229.1	0.4971	mg/L	0.00288	0.4971	mg/L	0.00288	0.58%
Ti 334.903†	53.2	-0.00046	mg/L	0.000332	-0.00046	mg/L	0.000332	71.79%
Tl 190.801†	-13.0	-0.00640	mg/L	0.001450	-0.00640	mg/L	0.001450	22.65%
V 292.402†	772.1	0.00633	mg/L	0.000146	0.00633	mg/L	0.000146	2.30%
Zn 206.200†	-20.6	-0.00530	mg/L	0.000517	-0.00530	mg/L	0.000517	9.76%

Sequence No.: 35
 Sample ID: RG64 L WMN

Autosampler Location: 47
 Date Collected: 8/11/2010 8:19:03 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 L WMN

Analyte Back Pressure Flow
 All 178.0 kPa 0.55 L/min

Mean Data: RG64 L WMN

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2224345.1	106.5	%	0.22				0.21%
ScR 361.383	257852.4	108.9	%	0.11				0.10%
Ag 328.068†	258.8	0.00015	mg/L	0.000067	0.00015	mg/L	0.000067	45.27%
Al 308.215†	30.4	0.02197	mg/L	0.004179	0.02197	mg/L	0.004179	19.02%
As 188.979†	-0.3	-0.00021	mg/L	0.002690	-0.00021	mg/L	0.002690	>999.9%
B 249.677†	35.6	0.01641	mg/L	0.001420	0.01641	mg/L	0.001420	8.65%
Ba 233.527†	517.5	0.06416	mg/L	0.000529	0.06416	mg/L	0.000529	0.82%
Be 313.042†	-18.3	-0.00006	mg/L	0.000011	-0.00006	mg/L	0.000011	18.18%
Ca 317.933†	872569.9	91.86	mg/L	0.221	91.86	mg/L	0.221	0.24%
Cd 228.802†	-18.9	-0.00034	mg/L	0.000019	-0.00034	mg/L	0.000019	5.55%
Co 228.616†	17.2	0.00031	mg/L	0.000035	0.00031	mg/L	0.000035	11.54%
Cr 267.716†	15.8	0.00124	mg/L	0.000967	0.00124	mg/L	0.000967	78.01%
Cu 324.752†	-657.2	-0.00267	mg/L	0.000070	-0.00267	mg/L	0.000070	2.62%
Fe 273.955†	4799.2	4.052	mg/L	0.0328	4.052	mg/L	0.0328	0.81%
K 766.490†	14715.4	5.495	mg/L	0.0250	5.495	mg/L	0.0250	0.45%
Mg 279.077†	49526.9	44.31	mg/L	0.142	44.31	mg/L	0.142	0.32%
Mn 257.610†	134370.5	3.381	mg/L	0.0104	3.381	mg/L	0.0104	0.31%
Mo 202.031†	42.5	0.00377	mg/L	0.000320	0.00377	mg/L	0.000320	8.48%
Na 589.592†	105275.5	16.93	mg/L	0.047	16.93	mg/L	0.047	0.28%
Na 330.237†	438.3	18.16	mg/L	0.299	18.16	mg/L	0.299	1.64%
Ni 231.604†	11.1	0.00602	mg/L	0.001745	0.00602	mg/L	0.001745	28.97%
Pb 220.353†	-33.7	-0.00449	mg/L	0.000868	-0.00449	mg/L	0.000868	19.36%
Sb 206.836†	-27.6	-0.01441	mg/L	0.001460	-0.01441	mg/L	0.001460	10.13%
Se 196.026†	-5.3	-0.00769	mg/L	0.004036	-0.00769	mg/L	0.004036	52.48%
Si 288.158†	25859.0	19.85	mg/L	0.109	19.85	mg/L	0.109	0.55%
Sn 189.927†	-48.5	-0.00650	mg/L	0.000669	-0.00650	mg/L	0.000669	10.30%
Sr 421.552†	246634.6	0.4959	mg/L	0.00100	0.4959	mg/L	0.00100	0.20%
Ti 334.903†	48.2	-0.00118	mg/L	0.000379	-0.00118	mg/L	0.000379	32.14%
Tl 190.801†	-2.9	-0.00583	mg/L	0.000492	-0.00583	mg/L	0.000492	8.43%
V 292.402†	-18.1	-0.00009	mg/L	0.000030	-0.00009	mg/L	0.000030	35.07%
Zn 206.200†	-17.3	-0.00382	mg/L	0.000068	-0.00382	mg/L	0.000068	1.78%

Sequence No.: 36
Sample ID: RG64 N WMN

Autosampler Location: 48
Date Collected: 8/11/2010 8:25:23 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 N WMN

Analyte Back Pressure Flow
All 178.0 kPa 0.55 L/min

Mean Data: RG64 N WMN

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2265799.9	108.5	%	1.45				1.34%
ScR 361.383	257601.8	108.8	%	0.56				0.52%
Ag 328.068†	111.2	0.00010	mg/L	0.000145	0.00010	mg/L	0.000145	137.94%
Al 308.215†	4.7	0.00339	mg/L	0.010870	0.00339	mg/L	0.010870	320.66%
As 188.979†	-3.3	-0.00209	mg/L	0.000696	-0.00209	mg/L	0.000696	33.36%
B 249.677†	78.9	0.03634	mg/L	0.002702	0.03634	mg/L	0.002702	7.44%
Ba 233.527†	86.7	0.01077	mg/L	0.000231	0.01077	mg/L	0.000231	2.14%
Be 313.042†	-33.2	-0.00011	mg/L	0.000025	-0.00011	mg/L	0.000025	22.03%
Ca 317.933†	319075.7	33.59	mg/L	0.154	33.59	mg/L	0.154	0.46%
Cd 228.802†	-11.0	-0.00019	mg/L	0.000120	-0.00019	mg/L	0.000120	62.23%
Co 228.616†	35.8	0.00068	mg/L	0.000097	0.00068	mg/L	0.000097	14.39%
Cr 267.716†	11.3	0.00166	mg/L	0.000903	0.00166	mg/L	0.000903	54.54%
Cu 324.752†	-445.6	-0.00205	mg/L	0.000132	-0.00205	mg/L	0.000132	6.43%
Fe 273.955†	32.1	0.02707	mg/L	0.001270	0.02707	mg/L	0.001270	4.69%
K 766.490†	2298.6	0.8584	mg/L	0.01655	0.8584	mg/L	0.01655	1.93%
Mg 279.077†	23605.8	21.12	mg/L	0.074	21.12	mg/L	0.074	0.35%
Mn 257.610†	43876.6	1.104	mg/L	0.0012	1.104	mg/L	0.0012	0.11%
Mo 202.031†	21.4	0.00190	mg/L	0.000211	0.00190	mg/L	0.000211	11.14%
Na 589.592†	98173.2	15.79	mg/L	0.041	15.79	mg/L	0.041	0.26%
Na 330.237†	394.0	16.65	mg/L	0.704	16.65	mg/L	0.704	4.23%
Ni 231.604†	7.3	0.00396	mg/L	0.001753	0.00396	mg/L	0.001753	44.26%
Pb 220.353†	-21.0	-0.00264	mg/L	0.001616	-0.00264	mg/L	0.001616	61.29%
Sb 206.836†	-25.7	-0.01273	mg/L	0.001785	-0.01273	mg/L	0.001785	14.02%
Se 196.026†	-4.2	-0.00511	mg/L	0.002838	-0.00511	mg/L	0.002838	55.49%
Si 288.158†	16121.5	12.37	mg/L	0.011	12.37	mg/L	0.011	0.09%
Sn 189.927†	-23.6	-0.00378	mg/L	0.000654	-0.00378	mg/L	0.000654	17.32%
Sr 421.552†	120367.0	0.2420	mg/L	0.00055	0.2420	mg/L	0.00055	0.23%
Ti 334.903†	18.9	-0.00037	mg/L	0.000903	-0.00037	mg/L	0.000903	243.89%
Tl 190.801†	-10.4	-0.00648	mg/L	0.002948	-0.00648	mg/L	0.002948	45.49%
V 292.402†	-90.2	-0.00055	mg/L	0.000058	-0.00055	mg/L	0.000058	10.61%
Zn 206.200†	-10.0	-0.00285	mg/L	0.001295	-0.00285	mg/L	0.001295	45.42%

Sequence No.: 37
 Sample ID: RG64 O WMN

Autosampler Location: 49
 Date Collected: 8/11/2010 8:31:25 PM
 Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 O WMN

Analyte Back Pressure Flow
 All 178.0 kPa 0.55 L/min

Mean Data: RG64 O WMN

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2258574.8	108.2	%	0.17				0.16%
ScR 361.383	255691.6	108.0	%	0.44				0.41%
Ag 328.068†	67.5	0.00012	mg/L	0.000235	0.00012	mg/L	0.000235	201.22%
Al 308.215†	18.3	0.01322	mg/L	0.004907	0.01322	mg/L	0.004907	37.12%
As 188.979†	-5.3	-0.00333	mg/L	0.002151	-0.00333	mg/L	0.002151	64.65%
B 249.677†	120.4	0.05546	mg/L	0.001745	0.05546	mg/L	0.001745	3.15%
Ba 233.527†	70.4	0.00875	mg/L	0.000394	0.00875	mg/L	0.000394	4.50%
Be 313.042†	-11.0	-0.00004	mg/L	0.000027	-0.00004	mg/L	0.000027	64.38%
Ca 317.933†	261381.6	27.52	mg/L	0.062	27.52	mg/L	0.062	0.22%
Cd 228.802†	-10.9	-0.00019	mg/L	0.000078	-0.00019	mg/L	0.000078	41.57%
Co 228.616†	55.4	0.00105	mg/L	0.000068	0.00105	mg/L	0.000068	6.48%
Cr 267.716†	12.8	0.00212	mg/L	0.000670	0.00212	mg/L	0.000670	31.57%
Cu 324.752†	-667.5	-0.00307	mg/L	0.000223	-0.00307	mg/L	0.000223	7.24%
Fe 273.955†	53.4	0.04512	mg/L	0.002982	0.04512	mg/L	0.002982	6.61%
K 766.490†	3641.3	1.360	mg/L	0.0136	1.360	mg/L	0.0136	1.00%
Mg 279.077†	24440.9	21.87	mg/L	0.032	21.87	mg/L	0.032	0.15%
Mn 257.610†	2142.1	0.05390	mg/L	0.000251	0.05390	mg/L	0.000251	0.47%
Mo 202.031†	12.0	0.00107	mg/L	0.000247	0.00107	mg/L	0.000247	23.16%
Na 589.592†	74363.3	11.96	mg/L	0.046	11.96	mg/L	0.046	0.39%
Na 330.237†	304.9	12.88	mg/L	0.435	12.88	mg/L	0.435	3.38%
Ni 231.604†	16.3	0.00885	mg/L	0.002456	0.00885	mg/L	0.002456	27.75%
Pb 220.353†	-24.5	-0.00307	mg/L	0.001057	-0.00307	mg/L	0.001057	34.40%
Sb 206.836†	-21.8	-0.01084	mg/L	0.002648	-0.01084	mg/L	0.002648	24.43%
Se 196.026†	3.5	0.00327	mg/L	0.005191	0.00327	mg/L	0.005191	158.54%
Si 288.158†	20888.2	16.03	mg/L	0.075	16.03	mg/L	0.075	0.47%
Sn 189.927†	-21.4	-0.00350	mg/L	0.001529	-0.00350	mg/L	0.001529	43.63%
Sr 421.552†	95355.9	0.1917	mg/L	0.00020	0.1917	mg/L	0.00020	0.11%
Ti 334.903†	0.5	-0.00105	mg/L	0.001726	-0.00105	mg/L	0.001726	164.58%
Tl 190.801†	-5.9	-0.00294	mg/L	0.001299	-0.00294	mg/L	0.001299	44.24%
V 292.402†	252.9	0.00208	mg/L	0.000056	0.00208	mg/L	0.000056	2.70%
Zn 206.200†	-10.5	-0.00320	mg/L	0.000390	-0.00320	mg/L	0.000390	12.17%

Sequence No.: 38

Sample ID: RG64 P WMN

Autosampler Location: 50

Date Collected: 8/11/2010 8:37:27 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG64 P WMN

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: RG64 P WMN

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2244586.9	107.5	%	0.99			0.92%
ScR 361.383	260616.4	110.0	%	1.71			1.56%
Ag 328.068†	455.9	0.00012	mg/L	0.000141	0.00012	mg/L	0.000141 120.10%
Al 308.215†	25.3	0.01824	mg/L	0.006958	0.01824	mg/L	0.006958 38.15%
As 188.979†	-3.7	-0.00231	mg/L	0.001272	-0.00231	mg/L	0.001272 55.11%
B 249.677†	46.2	0.02128	mg/L	0.000368	0.02128	mg/L	0.000368 1.73%
Ba 233.527†	192.9	0.02390	mg/L	0.000404	0.02390	mg/L	0.000404 1.69%
Be 313.042†	-34.9	-0.00012	mg/L	0.000010	-0.00012	mg/L	0.000010 8.56%
Ca 317.933†	745753.1	78.51	mg/L	1.082	78.51	mg/L	1.082 1.38%
Cd 228.802†	-22.7	-0.00040	mg/L	0.000042	-0.00040	mg/L	0.000042 10.51%
Co 228.616†	213.2	0.00404	mg/L	0.000089	0.00404	mg/L	0.000089 2.21%
Cr 267.716†	17.9	0.00242	mg/L	0.000486	0.00242	mg/L	0.000486 20.04%
Cu 324.752†	-685.7	-0.00299	mg/L	0.000242	-0.00299	mg/L	0.000242 8.09%
Fe 273.955†	2289.0	1.933	mg/L	0.0406	1.933	mg/L	0.0406 2.10%
K 766.490†	7636.3	2.852	mg/L	0.1179	2.852	mg/L	0.1179 4.14%
Mg 279.077†	29132.6	26.06	mg/L	0.409	26.06	mg/L	0.409 1.57%
Mn 257.610†	373839.1	9.407	mg/L	0.0847	9.407	mg/L	0.0847 0.90%
Mo 202.031†	44.7	0.00397	mg/L	0.000188	0.00397	mg/L	0.000188 4.73%
Na 589.592†	90263.7	14.52	mg/L	0.140	14.52	mg/L	0.140 0.96%
Na 330.237†	376.7	15.61	mg/L	0.517	15.61	mg/L	0.517 3.31%
Ni 231.604†	14.5	0.00782	mg/L	0.002611	0.00782	mg/L	0.002611 33.39%
Pb 220.353†	-30.2	-0.00391	mg/L	0.001971	-0.00391	mg/L	0.001971 50.44%
Sb 206.836†	-22.9	-0.01176	mg/L	0.002520	-0.01176	mg/L	0.002520 21.43%
Se 196.026†	4.4	-0.00467	mg/L	0.002602	-0.00467	mg/L	0.002602 55.66%
Si 288.158†	18654.6	14.32	mg/L	0.198	14.32	mg/L	0.198 1.38%
Sn 189.927†	-39.2	-0.00530	mg/L	0.001379	-0.00530	mg/L	0.001379 26.00%
Sr 421.552†	265109.0	0.5331	mg/L	0.00456	0.5331	mg/L	0.00456 0.86%
Ti 334.903†	22.5	-0.00194	mg/L	0.000341	-0.00194	mg/L	0.000341 17.58%
Tl 190.801†	17.0	-0.00428	mg/L	0.001294	-0.00428	mg/L	0.001294 30.24%
V 292.402†	-178.6	-0.00026	mg/L	0.000065	-0.00026	mg/L	0.000065 25.00%
Zn 206.200†	-14.1	-0.00324	mg/L	0.000565	-0.00324	mg/L	0.000565 17.43%

Sequence No.: 39

Sample ID: RG78 A SWC

Autosampler Location: 51

Date Collected: 8/11/2010 8:43:47 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG78 A SWC

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: RG78 A SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2242409.9	107.4	%	0.23			0.21%
ScR 361.383	254598.2	107.5	%	0.43			0.40%
Ag 328.068†	-876.4	0.00020	mg/L	0.000353	0.00020 mg/L	0.000353	178.49%
Al 308.215†	132669.8	96.13	mg/L	0.155	96.13 mg/L	0.155	0.16%
As 188.979†	30.3	0.02932	mg/L	0.001442	0.02932 mg/L	0.001442	4.92%
B 249.677†	27.4	0.01231	mg/L	0.002513	0.01231 mg/L	0.002513	20.40%
Ba 233.527†	3246.9	0.3973	mg/L	0.00274	0.3973 mg/L	0.00274	0.69%
Be 313.042†	571.5	0.00100	mg/L	0.000021	0.00100 mg/L	0.000021	2.11%
Ca 317.933†	311257.3	32.77	mg/L	0.046	32.77 mg/L	0.046	0.14%
Cd 228.802†	46.8	0.00091	mg/L	0.000023	0.00091 mg/L	0.000023	2.48%
Co 228.616†	3736.7	0.06156	mg/L	0.000370	0.06156 mg/L	0.000370	0.60%
Cr 267.716†	1116.9	0.2773	mg/L	0.00256	0.2773 mg/L	0.00256	0.92%
Cu 324.752†	27155.7	0.1356	mg/L	0.00061	0.1356 mg/L	0.00061	0.45%
Fe 273.955†	156437.5	132.1	mg/L	0.85	132.1 mg/L	0.85	0.65%
K 766.490†	12957.4	4.839	mg/L	0.0149	4.839 mg/L	0.0149	0.31%
Mg 279.077†	51420.9	45.92	mg/L	0.050	45.92 mg/L	0.050	0.11%
Mn 257.610†	69113.6	1.738	mg/L	0.0019	1.738 mg/L	0.0019	0.11%
Mo 202.031†	30.6	0.00267	mg/L	0.000445	0.00267 mg/L	0.000445	16.68%
Na 589.592†	11319.0	1.821	mg/L	0.0061	1.821 mg/L	0.0061	0.34%
Na 330.237†	47.7	2.872	mg/L	0.3040	2.872 mg/L	0.3040	10.58%
Ni 231.604†	699.7	0.3791	mg/L	0.00217	0.3791 mg/L	0.00217	0.57%
Pb 220.353†	-22.2	0.01603	mg/L	0.000500	0.01603 mg/L	0.000500	3.12%
Sb 206.836†	63.4	-0.00806	mg/L	0.000450	-0.00806 mg/L	0.000450	5.59%
Se 196.026†	-54.8	-0.01285	mg/L	0.009316	-0.01285 mg/L	0.009316	72.52%
Si 288.158†	1655.4	1.276	mg/L	0.0084	1.276 mg/L	0.0084	0.66%
Sn 189.927†	-34.7	-0.00401	mg/L	0.001467	-0.00401 mg/L	0.001467	36.59%
Sr 421.552†	111599.2	0.2244	mg/L	0.00055	0.2244 mg/L	0.00055	0.25%
Ti 334.903†	106966.3	5.345	mg/L	0.0079	5.345 mg/L	0.0079	0.15%
Tl 190.801†	-13.1	-0.01983	mg/L	0.001023	-0.01983 mg/L	0.001023	5.16%
V 292.402†	41447.4	0.3187	mg/L	0.00196	0.3187 mg/L	0.00196	0.62%
Zn 206.200†	576.1	0.2454	mg/L	0.00163	0.2454 mg/L	0.00163	0.66%

Sequence No.: 40
Sample ID: RG78 B SWC

Autosampler Location: 52
Date Collected: 8/11/2010 8:49:47 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG78 B SWC

Analyte Back Pressure Flow
All 178.0 kPa 0.55 L/min

Mean Data: RG78 B SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2224367.5	106.5 %	%	0.42			0.39%
ScR 361.383	254806.8	107.6 %	%	0.80			0.74%
Ag 328.068†	-939.6	0.00038 mg/L	mg/L	0.000226	0.00038 mg/L	0.000226	59.63%
Al 308.215†	170523.6	123.6 mg/L	mg/L	0.23	123.6 mg/L	0.23	0.19%
As 188.979†	10.6	0.01939 mg/L	mg/L	0.001286	0.01939 mg/L	0.001286	6.63%
B 249.677†	33.2	0.01496 mg/L	mg/L	0.002125	0.01496 mg/L	0.002125	14.21%
Ba 233.527†	3384.7	0.4135 mg/L	mg/L	0.00418	0.4135 mg/L	0.00418	1.01%
Be 313.042†	692.0	0.00129 mg/L	mg/L	0.000020	0.00129 mg/L	0.000020	1.53%
Ca 317.933†	358866.2	37.78 mg/L	mg/L	0.096	37.78 mg/L	0.096	0.25%
Cd 228.802†	52.9	0.00105 mg/L	mg/L	0.000020	0.00105 mg/L	0.000020	1.90%
Co 228.616†	4267.8	0.06962 mg/L	mg/L	0.000664	0.06962 mg/L	0.000664	0.95%
Cr 267.716†	1142.3	0.2837 mg/L	mg/L	0.00283	0.2837 mg/L	0.00283	1.00%
Cu 324.752†	30363.6	0.1518 mg/L	mg/L	0.00058	0.1518 mg/L	0.00058	0.38%
Fe 273.955†	179299.8	151.4 mg/L	mg/L	1.10	151.4 mg/L	1.10	0.73%
K 766.490†	13979.3	5.220 mg/L	mg/L	0.0035	5.220 mg/L	0.0035	0.07%
Mg 279.077†	59445.6	53.09 mg/L	mg/L	0.156	53.09 mg/L	0.156	0.29%
Mn 257.610†	118511.8	2.981 mg/L	mg/L	0.0056	2.981 mg/L	0.0056	0.19%
Mo 202.031†	42.1	0.00369 mg/L	mg/L	0.000094	0.00369 mg/L	0.000094	2.55%
Na 589.592†	9088.6	1.462 mg/L	mg/L	0.0076	1.462 mg/L	0.0076	0.52%
Na 330.237†	33.3	2.454 mg/L	mg/L	0.2306	2.454 mg/L	0.2306	9.40%
Ni 231.604†	707.9	0.3836 mg/L	mg/L	0.00099	0.3836 mg/L	0.00099	0.26%
Pb 220.353†	-53.9	0.01850 mg/L	mg/L	0.000927	0.01850 mg/L	0.000927	5.01%
Sb 206.836†	78.1	-0.00866 mg/L	mg/L	0.002439	-0.00866 mg/L	0.002439	28.17%
Se 196.026†	-63.2	-0.01332 mg/L	mg/L	0.000545	-0.01332 mg/L	0.000545	4.09%
Si 288.158†	1885.5	1.454 mg/L	mg/L	0.0129	1.454 mg/L	0.0129	0.89%
Sn 189.927†	-46.0	-0.00605 mg/L	mg/L	0.000099	-0.00605 mg/L	0.000099	1.63%
Sr 421.552†	133699.3	0.2688 mg/L	mg/L	0.00067	0.2688 mg/L	0.00067	0.25%
Ti 334.903†	130290.7	6.511 mg/L	mg/L	0.0156	6.511 mg/L	0.0156	0.24%
Tl 190.801†	-10.6	-0.02249 mg/L	mg/L	0.000784	-0.02249 mg/L	0.000784	3.49%
V 292.402†	46644.9	0.3579 mg/L	mg/L	0.00068	0.3579 mg/L	0.00068	0.19%
Zn 206.200†	658.4	0.2805 mg/L	mg/L	0.00187	0.2805 mg/L	0.00187	0.67%

Sequence No.: 41
Sample ID: RG87 MBSPK TWC

Autosampler Location: 53
Date Collected: 8/11/2010 8:55:50 PM
Data Type: Original

Dilution: 1X

Nebulizer Parameters: RG87 MBSPK TWC

Analyte Back Pressure Flow
All 178.0 kPa 0.55 L/min

Mean Data: RG87 MBSPK TWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	2231197.0		106.9 %	0.73				0.68%
ScR 361.383	254764.4		107.6 %	1.55				1.44%
Ag 328.068†	90539.8		0.4603 mg/L	0.00367	0.4603 mg/L	0.00367		0.80%
Al 308.215†	2575.6		1.860 mg/L	0.0152	1.860 mg/L	0.0152		0.82%
As 188.979†	2975.1		1.851 mg/L	0.0236	1.851 mg/L	0.0236		1.27%
B 249.677†	-4.2	-0.00335	mg/L	0.002270	-0.00335 mg/L	0.002270		67.71%
Ba 233.527†	14333.9		1.782 mg/L	0.0178	1.782 mg/L	0.0178		1.00%
Be 313.042†	134815.7		0.4583 mg/L	0.00129	0.4583 mg/L	0.00129		0.28%
Ca 317.933†	87106.1		9.170 mg/L	0.0265	9.170 mg/L	0.0265		0.29%
Cd 228.802†	25824.3		0.4629 mg/L	0.00291	0.4629 mg/L	0.00291		0.63%
Co 228.616†	23162.9		0.4395 mg/L	0.00207	0.4395 mg/L	0.00207		0.47%
Cr 267.716†	1827.8		0.4522 mg/L	0.00446	0.4522 mg/L	0.00446		0.99%
Cu 324.752†	98242.9		0.4531 mg/L	0.00249	0.4531 mg/L	0.00249		0.55%
Fe 273.955†	2206.9		1.863 mg/L	0.0237	1.863 mg/L	0.0237		1.27%
K 766.490†	25296.0		9.446 mg/L	0.0650	9.446 mg/L	0.0650		0.69%
Mg 279.077†	10327.5		9.239 mg/L	0.0823	9.239 mg/L	0.0823		0.89%
Mn 257.610†	17820.5		0.4489 mg/L	0.00442	0.4489 mg/L	0.00442		0.98%
Mo 202.031†	8.1	0.00065	mg/L	0.000124	0.00065 mg/L	0.000124		19.07%
Na 589.592†	58028.9		9.334 mg/L	0.0544	9.334 mg/L	0.0544		0.58%
Na 330.237†	252.2		10.60 mg/L	0.253	10.60 mg/L	0.253		2.38%
Ni 231.604†	823.0		0.4451 mg/L	0.00531	0.4451 mg/L	0.00531		1.19%
Pb 220.353†	14536.9		1.826 mg/L	0.0112	1.826 mg/L	0.0112		0.62%
Sb 206.836†	1.8	-0.00568	mg/L	0.002408	-0.00568 mg/L	0.002408		42.37%
Se 196.026†	1959.5		1.872 mg/L	0.0228	1.872 mg/L	0.0228		1.22%
Si 288.158†	7.3	0.00727	mg/L	0.008626	0.00727 mg/L	0.008626		118.68%
Sn 189.927†	-12.8	-0.00259	mg/L	0.000625	-0.00259 mg/L	0.000625		24.12%
Sr 421.552†	226946.9		0.4563 mg/L	0.00298	0.4563 mg/L	0.00298		0.65%
Ti 334.903†	-20.6	-0.00150	mg/L	0.000284	-0.00150 mg/L	0.000284		18.98%
Tl 190.801†	3822.0		1.831 mg/L	0.0201	1.831 mg/L	0.0201		1.10%
V 292.402†	56172.1		0.4591 mg/L	0.00323	0.4591 mg/L	0.00323		0.70%
Zn 206.200†	1035.0		0.4381 mg/L	0.00333	0.4381 mg/L	0.00333		0.76%

Sequence No.: 42

Sample ID: CV 4

Dilution: 1X

Autosampler Location: 7

Date Collected: 8/11/2010 9:01:52 PM

Data Type: Original

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2220895.9	106.4	%	0.09				0.08%
ScR 361.383	239386.9	101.1	%	10.38				0.78%
Ag 328.068†	175755.2	0.8934	mg/L	0.00693	0.8934	mg/L	0.00693	10.27%
Al 308.215†	2836.5	2.020	mg/L	0.2088	2.020	mg/L	0.2088	10.34%
As 188.979†	2980.8	1.854	mg/L	0.0054	1.854	mg/L	0.0054	0.29%
B 249.677†	2075.6	0.9550	mg/L	0.10184	0.9550	mg/L	0.10184	10.66%
Ba 233.527†	7862.5	0.9771	mg/L	0.11120	0.9771	mg/L	0.11120	11.38%
Be 313.042†	287029.3	0.9760	mg/L	0.11572	0.9760	mg/L	0.11572	11.86%
Ca 317.933†	19326.7	2.035	mg/L	0.2300	2.035	mg/L	0.2300	11.30%
Cd 228.802†	52491.0	0.9443	mg/L	0.00924	0.9443	mg/L	0.00924	0.98%
Co 228.616†	47508.2	0.9006	mg/L	0.00971	0.9006	mg/L	0.00971	1.08%
Cr 267.716†	3960.9	0.9805	mg/L	0.10640	0.9805	mg/L	0.10640	10.85%
Cu 324.752†	209885.3	0.9673	mg/L	0.01018	0.9673	mg/L	0.01018	1.05%
Fe 273.955†	2320.0	1.958	mg/L	0.2182	1.958	mg/L	0.2182	11.14%
K 766.490†	54311.5	20.28	mg/L	2.603	20.28	mg/L	2.603	12.83%
Mg 279.077†	2212.6	1.982	mg/L	0.2290	1.982	mg/L	0.2290	11.55%
Mn 257.610†	39300.1	0.9894	mg/L	0.11932	0.9894	mg/L	0.11932	12.06%
Mo 202.031†	10296.3	0.9133	mg/L	0.00406	0.9133	mg/L	0.00406	0.44%
Na 589.592†	309663.1	49.81	mg/L	5.929	49.81	mg/L	5.929	11.90%
Na 330.237†	1179.6	50.39	mg/L	4.425	50.39	mg/L	4.425	8.78%
Ni 231.604†	1807.3	0.9799	mg/L	0.10697	0.9799	mg/L	0.10697	10.92%
Pb 220.353†	14625.4	1.838	mg/L	0.0219	1.838	mg/L	0.0219	1.19%
Sb 206.836†	4034.6	1.980	mg/L	0.0072	1.980	mg/L	0.0072	0.36%
Se 196.026†	1927.3	1.840	mg/L	0.0026	1.840	mg/L	0.0026	0.14%
Si 288.158†	2778.4	2.134	mg/L	0.2386	2.134	mg/L	0.2386	11.18%
Sn 189.927†	3278.3	0.8598	mg/L	0.00195	0.8598	mg/L	0.00195	0.23%
Sr 421.552†	496136.2	0.9976	mg/L	0.12028	0.9976	mg/L	0.12028	12.06%
Ti 334.903†	19869.4	0.9920	mg/L	0.12045	0.9920	mg/L	0.12045	12.14%
Tl 190.801†	3803.8	1.816	mg/L	0.0073	1.816	mg/L	0.0073	0.40%
V 292.402†	111153.8	0.9140	mg/L	0.01065	0.9140	mg/L	0.01065	1.17%
Zn 206.200†	2304.8	0.9742	mg/L	0.10848	0.9742	mg/L	0.10848	11.14%

Sequence No.: 43

Sample ID: CB

Autosampler Location: 1

Date Collected: 8/11/2010 9:07:54 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2257890.2	108.2	%	0.73				0.68%
ScR 361.383	252119.2	106.5	%	0.83				0.78%
Ag 328.068†	43.3	0.00022	mg/L	0.000081	0.00022	mg/L	0.000081	37.04%
Al 308.215†	-8.1	-0.00584	mg/L	0.009640	-0.00584	mg/L	0.009640	164.95%
As 188.979†	-4.4	-0.00273	mg/L	0.001133	-0.00273	mg/L	0.001133	41.49%
B 249.677†	7.0	0.00322	mg/L	0.001670	0.00322	mg/L	0.001670	51.81%
Ba 233.527†	-0.0	0.00000	mg/L	0.000627	0.00000	mg/L	0.000627	>999.9%
Be 313.042†	-5.9	-0.00002	mg/L	0.000053	-0.00002	mg/L	0.000053	272.64%
Ca 317.933†	15.6	0.00164	mg/L	0.001977	0.00164	mg/L	0.001977	120.47%
Cd 228.802†	-5.8	-0.00010	mg/L	0.000088	-0.00010	mg/L	0.000088	88.92%
Co 228.616†	1.6	0.00003	mg/L	0.000090	0.00003	mg/L	0.000090	264.25%
Cr 267.716†	5.0	0.00124	mg/L	0.001131	0.00124	mg/L	0.001131	91.06%
Cu 324.752†	-225.9	-0.00104	mg/L	0.000101	-0.00104	mg/L	0.000101	9.74%
Fe 273.955†	5.6	0.00471	mg/L	0.000832	0.00471	mg/L	0.000832	17.69%
K 766.490†	-164.3	-0.06134	mg/L	0.018607	-0.06134	mg/L	0.018607	30.34%
Mg 279.077†	1.4	0.00125	mg/L	0.000580	0.00125	mg/L	0.000580	46.30%
Mn 257.610†	37.3	0.00094	mg/L	0.000095	0.00094	mg/L	0.000095	10.15%
Mo 202.031†	-0.0	0.00000	mg/L	0.000461	0.00000	mg/L	0.000461	>999.9%
Na 589.592†	135.6	0.02182	mg/L	0.007964	0.02182	mg/L	0.007964	36.50%
Na 330.237†	13.8	0.5890	mg/L	0.39149	0.5890	mg/L	0.39149	66.47%
Ni 231.604†	2.0	0.00109	mg/L	0.001749	0.00109	mg/L	0.001749	159.72%
Pb 220.353†	-13.2	-0.00166	mg/L	0.000751	-0.00166	mg/L	0.000751	45.23%
Sb 206.836†	-12.8	-0.00631	mg/L	0.001087	-0.00631	mg/L	0.001087	17.22%
Se 196.026†	5.4	0.00511	mg/L	0.001507	0.00511	mg/L	0.001507	29.46%
Si 288.158†	4.0	0.00306	mg/L	0.001472	0.00306	mg/L	0.001472	48.14%
Sn 189.927†	4.8	0.00127	mg/L	0.000444	0.00127	mg/L	0.000444	35.06%
Sr 421.552†	-32.5	-0.00007	mg/L	0.000010	-0.00007	mg/L	0.000010	15.19%
Ti 334.903†	-41.8	-0.00209	mg/L	0.001101	-0.00209	mg/L	0.001101	52.72%
Tl 190.801†	-2.4	-0.00115	mg/L	0.001918	-0.00115	mg/L	0.001918	166.82%
V 292.402†	-31.1	-0.00024	mg/L	0.000123	-0.00024	mg/L	0.000123	50.50%
Zn 206.200†	-3.7	-0.00158	mg/L	0.000483	-0.00158	mg/L	0.000483	30.62%

Sequence No.: 44

Autosampler Location: 54

Sample ID: RG78 MB1 SWC

Date Collected: 8/11/2010 9:13:52 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 MB1 SWC

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: RG78 MB1 SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2290175.1	109.7	%	0.53			0.48%
ScR 361.383	256847.4	108.5	%	1.39			1.29%
Ag 328.068†	12.6	0.00006	mg/L	0.000271	0.00013	mg/L	0.000543 425.84%
Al 308.215†	10.9	0.00794	mg/L	0.003337	0.01589	mg/L	0.006674 42.01%
As 188.979†	-3.6	-0.00223	mg/L	0.002023	-0.00447	mg/L	0.004045 90.57%
B 249.677†	-7.5	-0.00347	mg/L	0.001854	-0.00694	mg/L	0.003709 53.45%
Ba 233.527†	-1.6	-0.00020	mg/L	0.000585	-0.00040	mg/L	0.001170 294.91%
Be 313.042†	-11.3	-0.00004	mg/L	0.000004	-0.00008	mg/L	0.000008 10.77%
Ca 317.933†	118.8	0.01250	mg/L	0.002406	0.02501	mg/L	0.004811 19.24%
Cd 228.802†	-4.1	-0.00007	mg/L	0.000078	-0.00014	mg/L	0.000157 113.54%
Co 228.616†	9.4	0.00018	mg/L	0.000105	0.00036	mg/L	0.000209 58.01%
Cr 267.716†	5.7	0.00141	mg/L	0.000727	0.00283	mg/L	0.001453 51.40%
Cu 324.752†	-380.3	-0.00175	mg/L	0.000152	-0.00350	mg/L	0.000304 8.69%
Fe 273.955†	4.2	0.00352	mg/L	0.001224	0.00703	mg/L	0.002449 34.82%
K 766.490†	-253.0	-0.09448	mg/L	0.016339	-0.1890	mg/L	0.03268 17.29%
Mg 279.077†	4.0	0.00355	mg/L	0.005975	0.00711	mg/L	0.011950 168.15%
Mn 257.610†	32.9	0.00083	mg/L	0.000097	0.00165	mg/L	0.000195 11.79%
Mo 202.031†	-1.9	-0.00017	mg/L	0.000392	-0.00034	mg/L	0.000784 231.51%
Na 589.592†	110.8	0.01783	mg/L	0.000238	0.03565	mg/L	0.000475 1.33%
Na 330.237†	22.0	0.9414	mg/L	0.52157	1.883	mg/L	1.0431 55.40%
Ni 231.604†	6.0	0.00325	mg/L	0.001224	0.00650	mg/L	0.002448 37.67%
Pb 220.353†	-20.4	-0.00256	mg/L	0.001055	-0.00512	mg/L	0.002110 41.22%
Sb 206.836†	-14.0	-0.00691	mg/L	0.000340	-0.01381	mg/L	0.000681 4.93%
Se 196.026†	4.9	0.00464	mg/L	0.002836	0.00927	mg/L	0.005672 61.18%
Si 288.158†	4.4	0.00338	mg/L	0.007955	0.00676	mg/L	0.015911 235.48%
Sn 189.927†	0.6	0.00015	mg/L	0.000351	0.00029	mg/L	0.000701 241.30%
Sr 421.552†	-40.1	-0.00008	mg/L	0.000112	-0.00016	mg/L	0.000224 139.28%
Ti 334.903†	-30.7	-0.00153	mg/L	0.000608	-0.00307	mg/L	0.001215 39.62%
Tl 190.801†	-2.6	-0.00123	mg/L	0.000310	-0.00247	mg/L	0.000620 25.10%
V 292.402†	-38.9	-0.00031	mg/L	0.000037	-0.00061	mg/L	0.000074 11.98%
Zn 206.200†	-2.1	-0.00088	mg/L	0.000412	-0.00177	mg/L	0.000824 46.54%

Sequence No.: 45

Sample ID: RG78 C SWC

Autosampler Location: 55

Date Collected: 8/11/2010 9:19:52 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 C SWC

Analyte	Back Pressure	Flow
All	178.0 kPa	0.55 L/min

Mean Data: RG78 C SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2254395.1	108.0	%	0.71				0.66%
ScR 361.383	260908.3	110.2	%	0.72				0.65%
Ag 328.068†	-997.5	0.00015	mg/L	0.000229	0.00030	mg/L	0.000458	152.53%
Al 308.215†	180050.0	130.5	mg/L	0.14	260.9	mg/L	0.27	0.11%
As 188.979†	13.6	0.02106	mg/L	0.000697	0.04212	mg/L	0.001395	3.31%
B 249.677†	33.7	0.01520	mg/L	0.001492	0.03040	mg/L	0.002984	9.82%
Ba 233.527†	3546.8	0.4336	mg/L	0.00225	0.8672	mg/L	0.00450	0.52%
Be 313.042†	742.6	0.00141	mg/L	0.000054	0.00283	mg/L	0.000109	3.84%
Ca 317.933†	362450.6	38.16	mg/L	0.073	76.31	mg/L	0.146	0.19%
Cd 228.802†	51.9	0.00103	mg/L	0.000110	0.00207	mg/L	0.000221	10.66%
Co 228.616†	4247.0	0.06938	mg/L	0.000523	0.1388	mg/L	0.00105	0.75%
Cr 267.716†	1139.4	0.2829	mg/L	0.00213	0.5659	mg/L	0.00425	0.75%
Cu 324.752†	28589.4	0.1437	mg/L	0.00175	0.2875	mg/L	0.00350	1.22%
Fe 273.955†	180494.9	152.4	mg/L	0.92	304.8	mg/L	1.84	0.60%
K 766.490†	14562.0	5.438	mg/L	0.0173	10.88	mg/L	0.035	0.32%
Mg 279.077†	60744.9	54.25	mg/L	0.140	108.5	mg/L	0.28	0.26%
Mn 257.610†	113034.8	2.843	mg/L	0.0029	5.687	mg/L	0.0058	0.10%
Mo 202.031†	32.2	0.00281	mg/L	0.000305	0.00563	mg/L	0.000611	10.86%
Na 589.592†	7320.8	1.178	mg/L	0.0040	2.355	mg/L	0.0080	0.34%
Na 330.237†	29.0	2.248	mg/L	0.2658	4.496	mg/L	0.5316	11.82%
Ni 231.604†	762.5	0.4132	mg/L	0.00452	0.8263	mg/L	0.00904	1.09%
Pb 220.353†	-73.2	0.01795	mg/L	0.000636	0.03590	mg/L	0.001272	3.54%
Sb 206.836†	77.7	-0.01069	mg/L	0.004446	-0.02138	mg/L	0.008892	41.58%
Se 196.026†	-64.8	-0.01317	mg/L	0.005400	-0.02634	mg/L	0.010801	41.00%
Si 288.158†	2890.0	2.225	mg/L	0.0063	4.450	mg/L	0.0126	0.28%
Sn 189.927†	-44.8	-0.00571	mg/L	0.001413	-0.01143	mg/L	0.002827	24.73%
Sr 421.552†	124876.6	0.2511	mg/L	0.00061	0.5022	mg/L	0.00122	0.24%
Ti 334.903†	128382.4	6.416	mg/L	0.0032	12.83	mg/L	0.006	0.05%
Tl 190.801†	-10.3	-0.02207	mg/L	0.002066	-0.04415	mg/L	0.004131	9.36%
V 292.402†	48891.7	0.3761	mg/L	0.00526	0.7522	mg/L	0.01051	1.40%
Zn 206.200†	655.2	0.2792	mg/L	0.00335	0.5583	mg/L	0.00671	1.20%

Sequence No.: 46
Sample ID: RG78 D SWC

Autosampler Location: 56
Date Collected: 8/11/2010 9:25:55 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 D SWC

Analyte Back Pressure Flow
All 179.0 kPa 0.55 L/min

Mean Data: RG78 D SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2282326.1	109.3	%	0.52			0.48%
ScR 361.383	260724.1	110.1	%	0.81			0.74%
Ag 328.068†	-994.5	0.00017	mg/L	0.000648	0.00034 mg/L	0.001296	376.16%
Al 308.215†	183284.9	132.8	mg/L	0.29	265.6 mg/L	0.59	0.22%
As 188.979†	14.1	0.02004	mg/L	0.003040	0.04008 mg/L	0.006079	15.17%
B 249.677†	31.2	0.01404	mg/L	0.003002	0.02807 mg/L	0.006003	21.38%
Ba 233.527†	3619.4	0.4427	mg/L	0.00138	0.8854 mg/L	0.00277	0.31%
Be 313.042†	715.6	0.00143	mg/L	0.000054	0.00287 mg/L	0.000108	3.75%
Ca 317.933†	324903.8	34.20	mg/L	0.163	68.41 mg/L	0.327	0.48%
Cd 228.802†	48.0	0.00096	mg/L	0.000038	0.00192 mg/L	0.000077	4.00%
Co 228.616†	4450.5	0.07443	mg/L	0.000232	0.1489 mg/L	0.00046	0.31%
Cr 267.716†	1130.6	0.2809	mg/L	0.00143	0.5618 mg/L	0.00285	0.51%
Cu 324.752†	32525.8	0.1620	mg/L	0.00076	0.3241 mg/L	0.00153	0.47%
Fe 273.955†	180207.3	152.2	mg/L	0.84	304.3 mg/L	1.67	0.55%
K 766.490†	15387.1	5.746	mg/L	0.0385	11.49 mg/L	0.077	0.67%
Mg 279.077†	57370.1	51.23	mg/L	0.254	102.5 mg/L	0.51	0.50%
Mn 257.610†	114154.4	2.871	mg/L	0.0091	5.743 mg/L	0.0183	0.32%
Mo 202.031†	96.5	0.00852	mg/L	0.000311	0.01703 mg/L	0.000623	3.66%
Na 589.592†	7774.5	1.251	mg/L	0.0022	2.501 mg/L	0.0043	0.17%
Na 330.237†	37.4	2.490	mg/L	0.1401	4.980 mg/L	0.2802	5.63%
Ni 231.604†	757.1	0.4102	mg/L	0.00255	0.8204 mg/L	0.00510	0.62%
Pb 220.353†	-76.3	0.01821	mg/L	0.001348	0.03643 mg/L	0.002697	7.40%
Sb 206.836†	80.7	-0.01082	mg/L	0.002039	-0.02163 mg/L	0.004079	18.85%
Se 196.026†	-70.3	-0.01802	mg/L	0.000957	-0.03604 mg/L	0.001915	5.31%
Si 288.158†	3130.2	2.409	mg/L	0.0099	4.817 mg/L	0.0199	0.41%
Sn 189.927†	-42.5	-0.00568	mg/L	0.000584	-0.01136 mg/L	0.001168	10.28%
Sr 421.552†	129752.5	0.2609	mg/L	0.00052	0.5218 mg/L	0.00104	0.20%
Ti 334.903†	114809.3	5.737	mg/L	0.0163	11.47 mg/L	0.033	0.28%
Tl 190.801†	-10.5	-0.02091	mg/L	0.002172	-0.04183 mg/L	0.004345	10.39%
V 292.402†	44016.6	0.3371	mg/L	0.00230	0.6743 mg/L	0.00460	0.68%
Zn 206.200†	667.4	0.2842	mg/L	0.00219	0.5683 mg/L	0.00438	0.77%

Sequence No.: 47
 Sample ID: RG78 E SWC

Autosampler Location: 57
 Date Collected: 8/11/2010 9:31:56 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 E SWC

Analyte Back Pressure Flow
 All 179.0 kPa 0.55 L/min

Mean Data: RG78 E SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2276252.8	109.0	%	0.48			0.44%
ScR 361.383	261528.2	110.4	%	0.68			0.61%
Ag 328.068†	-939.3	0.00026	mg/L	0.000146	0.00053 mg/L	0.000292	55.61%
Al 308.215†	206591.4	149.7	mg/L	0.18	299.4 mg/L	0.37	0.12%
As 188.979†	101.5	0.07619	mg/L	0.001324	0.1524 mg/L	0.00265	1.74%
B 249.677†	35.4	0.01605	mg/L	0.000748	0.03211 mg/L	0.001496	4.66%
Ba 233.527†	6103.0	0.7518	mg/L	0.00259	1.504 mg/L	0.0052	0.34%
Be 313.042†	904.3	0.00202	mg/L	0.000023	0.00404 mg/L	0.000046	1.14%
Ca 317.933†	267096.5	28.12	mg/L	0.064	56.24 mg/L	0.129	0.23%
Cd 228.802†	188.1	0.00337	mg/L	0.000064	0.00674 mg/L	0.000127	1.89%
Co 228.616†	3584.5	0.05632	mg/L	0.000395	0.1126 mg/L	0.00079	0.70%
Cr 267.716†	1100.8	0.2738	mg/L	0.00164	0.5476 mg/L	0.00328	0.60%
Cu 324.752†	34610.0	0.1707	mg/L	0.00140	0.3415 mg/L	0.00280	0.82%
Fe 273.955†	171428.6	144.8	mg/L	0.91	289.5 mg/L	1.82	0.63%
K 766.490†	10463.0	3.907	mg/L	0.0088	7.814 mg/L	0.0177	0.23%
Mg 279.077†	43564.2	38.89	mg/L	0.079	77.78 mg/L	0.159	0.20%
Mn 257.610†	103852.8	2.612	mg/L	0.0009	5.225 mg/L	0.0019	0.04%
Mo 202.031†	79.4	0.00698	mg/L	0.000780	0.01395 mg/L	0.001561	11.19%
Na 589.592†	7394.1	1.189	mg/L	0.0047	2.379 mg/L	0.0095	0.40%
Na 330.237†	29.9	2.274	mg/L	0.0783	4.547 mg/L	0.1567	3.45%
Ni 231.604†	592.9	0.3212	mg/L	0.00104	0.6425 mg/L	0.00208	0.32%
Pb 220.353†	3388.6	0.4585	mg/L	0.00243	0.9170 mg/L	0.00486	0.53%
Sb 206.836†	88.6	-0.00821	mg/L	0.001522	-0.01642 mg/L	0.003044	18.54%
Se 196.026†	-60.2	-0.00583	mg/L	0.001461	-0.01166 mg/L	0.002923	25.06%
Si 288.158†	4037.0	3.103	mg/L	0.0151	6.205 mg/L	0.0302	0.49%
Sn 189.927†	-14.2	0.00143	mg/L	0.000382	0.00285 mg/L	0.000765	26.81%
Sr 421.552†	92648.6	0.1863	mg/L	0.00066	0.3726 mg/L	0.00132	0.35%
Ti 334.903†	133033.4	6.649	mg/L	0.0101	13.30 mg/L	0.020	0.15%
Tl 190.801†	-5.6	-0.01973	mg/L	0.001770	-0.03945 mg/L	0.003541	8.97%
V 292.402†	46150.5	0.3545	mg/L	0.00294	0.7090 mg/L	0.00588	0.83%
Zn 206.200†	1616.6	0.6853	mg/L	0.00205	1.371 mg/L	0.0041	0.30%

Sequence No.: 48
Sample ID: RG78 F SWC

Autosampler Location: 58
Date Collected: 8/11/2010 9:37:58 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 F SWC

Analyte Back Pressure Flow
All 178.0 kPa 0.55 L/min

Mean Data: RG78 F SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	2270303.8		108.7 %	0.40				0.37%
ScR 361.383	264559.8		111.7 %	0.78				0.70%
Ag 328.068†	-946.8	0.00012	mg/L	0.000099	0.00025	mg/L	0.000199	80.48%
Al 308.215†	170531.7		123.6 mg/L	0.26	247.1	mg/L	0.51	0.21%
As 188.979†	31.3	0.03275	mg/L	0.002886	0.06549	mg/L	0.005772	8.81%
B 249.677†	32.4	0.01466	mg/L	0.001782	0.02931	mg/L	0.003564	12.16%
Ba 233.527†	5230.2	0.6434	mg/L	0.00269	1.287	mg/L	0.0054	0.42%
Be 313.042†	698.2	0.00135	mg/L	0.000034	0.00269	mg/L	0.000069	2.55%
Ca 317.933†	311597.2		32.80 mg/L	0.064	65.61	mg/L	0.128	0.20%
Cd 228.802†	169.8	0.00309	mg/L	0.000118	0.00619	mg/L	0.000236	3.81%
Co 228.616†	3668.3	0.05778	mg/L	0.000363	0.1156	mg/L	0.00073	0.63%
Cr 267.716†	1011.5	0.2515	mg/L	0.00195	0.5030	mg/L	0.00390	0.78%
Cu 324.752†	39259.5	0.1920	mg/L	0.00148	0.3840	mg/L	0.00296	0.77%
Fe 273.955†	169861.0		143.4 mg/L	0.24	286.9	mg/L	0.48	0.17%
K 766.490†	13224.6	4.938	mg/L	0.0135	9.877	mg/L	0.0270	0.27%
Mg 279.077†	46905.0	41.88	mg/L	0.047	83.76	mg/L	0.094	0.11%
Mn 257.610†	105981.9	2.666	mg/L	0.0027	5.332	mg/L	0.0054	0.10%
Mo 202.031†	85.0	0.00748	mg/L	0.000299	0.01495	mg/L	0.000598	4.00%
Na 589.592†	12854.4	2.068	mg/L	0.0042	4.135	mg/L	0.0084	0.20%
Na 330.237†	52.7	3.245	mg/L	0.1870	6.489	mg/L	0.3739	5.76%
Ni 231.604†	452.1	0.2450	mg/L	0.00104	0.4899	mg/L	0.00208	0.42%
Pb 220.353†	3100.4	0.4150	mg/L	0.00123	0.8300	mg/L	0.00247	0.30%
Sb 206.836†	68.9	-0.01088	mg/L	0.003322	-0.02175	mg/L	0.006644	30.54%
Se 196.026†	-58.2	-0.00942	mg/L	0.002592	-0.01883	mg/L	0.005183	27.52%
Si 288.158†	1223.2	0.9443	mg/L	0.00586	1.889	mg/L	0.0117	0.62%
Sn 189.927†	48.8	0.01831	mg/L	0.000734	0.03663	mg/L	0.001468	4.01%
Sr 421.552†	98874.6	0.1988	mg/L	0.00037	0.3976	mg/L	0.00075	0.19%
Ti 334.903†	134992.2	6.746	mg/L	0.0008	13.49	mg/L	0.002	0.01%
Tl 190.801†	-5.2	-0.01970	mg/L	0.001338	-0.03940	mg/L	0.002676	6.79%
V 292.402†	44626.1	0.3420	mg/L	0.00305	0.6841	mg/L	0.00611	0.89%
Zn 206.200†	1590.4	0.6744	mg/L	0.00187	1.349	mg/L	0.0037	0.28%

Sequence No.: 49
 Sample ID: RG78 JDUP SWC

Autosampler Location: 59
 Date Collected: 8/11/2010 9:44:00 PM
 Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 JDUP SWC

Analyte Back Pressure Flow
 All 179.0 kPa 0.55 L/min

Mean Data: RG78 JDUP SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	2263566.2		108.4 %	0.96				0.88%
ScR 361.383	260399.4		110.0 %	0.76				0.69%
Ag 328.068†	-851.8	0.00033	mg/L	0.000035	0.00065	mg/L	0.000070	10.71%
Al 308.215†	202227.8		146.5 mg/L	0.28	293.1	mg/L	0.55	0.19%
As 188.979†	77.8	0.05879	mg/L	0.001256	0.1176	mg/L	0.00251	2.14%
B 249.677†	42.4	0.01932	mg/L	0.001124	0.03864	mg/L	0.002247	5.82%
Ba 233.527†	5072.0	0.6240	mg/L	0.00242	1.248	mg/L	0.0048	0.39%
Be 313.042†	882.2	0.00205	mg/L	0.000034	0.00410	mg/L	0.000068	1.66%
Ca 317.933†	274403.7		28.89 mg/L	0.067	57.78	mg/L	0.133	0.23%
Cd 228.802†	178.5	0.00321	mg/L	0.000134	0.00642	mg/L	0.000269	4.19%
Co 228.616†	3156.8	0.05060	mg/L	0.000533	0.1012	mg/L	0.00107	1.05%
Cr 267.716†	807.1	0.2010	mg/L	0.00062	0.4019	mg/L	0.00124	0.31%
Cu 324.752†	30984.8	0.1538	mg/L	0.00255	0.3076	mg/L	0.00511	1.66%
Fe 273.955†	163997.1		138.5 mg/L	0.42	277.0	mg/L	0.83	0.30%
K 766.490†	11486.6	4.289	mg/L	0.0277	8.579	mg/L	0.0554	0.65%
Mg 279.077†	43424.7	38.77	mg/L	0.068	77.53	mg/L	0.136	0.18%
Mn 257.610†	131671.2	3.312	mg/L	0.0036	6.624	mg/L	0.0072	0.11%
Mo 202.031†	51.7	0.00452	mg/L	0.000094	0.00903	mg/L	0.000188	2.08%
Na 589.592†	7411.3	1.192	mg/L	0.0057	2.384	mg/L	0.0114	0.48%
Na 330.237†	38.6	2.311	mg/L	0.2724	4.622	mg/L	0.5447	11.79%
Ni 231.604†	513.6	0.2783	mg/L	0.00068	0.5565	mg/L	0.00135	0.24%
Pb 220.353†	2103.9	0.2966	mg/L	0.00221	0.5932	mg/L	0.00442	0.75%
Sb 206.836†	83.8	-0.00962	mg/L	0.002898	-0.01924	mg/L	0.005796	30.12%
Se 196.026†	-63.6	-0.01138	mg/L	0.003084	-0.02275	mg/L	0.006169	27.11%
Si 288.158†	1394.1	1.075	mg/L	0.0069	2.150	mg/L	0.0138	0.64%
Sn 189.927†	-11.6	0.00163	mg/L	0.000112	0.00325	mg/L	0.000224	6.90%
Sr 421.552†	60849.0	0.1224	mg/L	0.00042	0.2447	mg/L	0.00085	0.35%
Ti 334.903†	105664.8	5.280	mg/L	0.0064	10.56	mg/L	0.013	0.12%
Tl 190.801†	-11.8	-0.02110	mg/L	0.002687	-0.04220	mg/L	0.005375	12.74%
V 292.402†	42154.6	0.3235	mg/L	0.00752	0.6471	mg/L	0.01504	2.32%
Zn 206.200†	1938.8	0.8216	mg/L	0.00316	1.643	mg/L	0.0063	0.38%

Sequence No.: 50
Sample ID: RG78 J SWC

Autosampler Location: 60
Date Collected: 8/11/2010 9:50:01 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 J SWC

Analyte Back Pressure Flow
All 179.0 kPa 0.55 L/min

Mean Data: RG78 J SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2224093.9	106.5	%	0.49			0.46%
ScR 361.383	255374.6	107.8	%	0.54			0.50%
Ag 328.068†	-883.2	0.00028	mg/L	0.000128	0.00056 mg/L	0.000256	46.05%
Al 308.215†	219119.8	158.8	mg/L	0.60	317.6 mg/L	1.21	0.38%
As 188.979†	82.9	0.06162	mg/L	0.001039	0.1232 mg/L	0.00208	1.69%
B 249.677†	46.5	0.02117	mg/L	0.002352	0.04235 mg/L	0.004704	11.11%
Ba 233.527†	5955.0	0.7336	mg/L	0.00763	1.467 mg/L	0.0153	1.04%
Be 313.042†	932.6	0.00223	mg/L	0.000056	0.00445 mg/L	0.000112	2.52%
Ca 317.933†	255490.0	26.90	mg/L	0.167	53.79 mg/L	0.335	0.62%
Cd 228.802†	191.8	0.00345	mg/L	0.000118	0.00691 mg/L	0.000236	3.41%
Co 228.616†	3465.3	0.05670	mg/L	0.000309	0.1134 mg/L	0.00062	0.55%
Cr 267.716†	977.5	0.2432	mg/L	0.00226	0.4863 mg/L	0.00452	0.93%
Cu 324.752†	32199.6	0.1597	mg/L	0.00232	0.3194 mg/L	0.00465	1.46%
Fe 273.955†	167228.3	141.2	mg/L	0.44	282.4 mg/L	0.88	0.31%
K 766.490†	10993.7	4.105	mg/L	0.0371	8.211 mg/L	0.0741	0.90%
Mg 279.077†	45726.1	40.82	mg/L	0.216	81.65 mg/L	0.432	0.53%
Mn 257.610†	134198.0	3.376	mg/L	0.0143	6.751 mg/L	0.0286	0.42%
Mo 202.031†	54.4	0.00475	mg/L	0.000397	0.00950 mg/L	0.000794	8.36%
Na 589.592†	10456.4	1.682	mg/L	0.0037	3.364 mg/L	0.0075	0.22%
Na 330.237†	51.5	2.814	mg/L	0.0627	5.627 mg/L	0.1253	2.23%
Ni 231.604†	578.6	0.3135	mg/L	0.00296	0.6270 mg/L	0.00591	0.94%
Pb 220.353†	1806.4	0.2626	mg/L	0.00101	0.5252 mg/L	0.00201	0.38%
Sb 206.836†	102.1	-0.00492	mg/L	0.003955	-0.00983 mg/L	0.007911	80.45%
Se 196.026†	-70.2	-0.01484	mg/L	0.001928	-0.02969 mg/L	0.003855	12.99%
Si 288.158†	1416.4	1.092	mg/L	0.0101	2.185 mg/L	0.0201	0.92%
Sn 189.927†	-12.6	0.00125	mg/L	0.000128	0.00249 mg/L	0.000256	10.29%
Sr 421.552†	73959.3	0.1487	mg/L	0.00060	0.2974 mg/L	0.00120	0.40%
Ti 334.903†	102577.4	5.126	mg/L	0.0241	10.25 mg/L	0.048	0.47%
Tl 190.801†	-4.9	-0.01763	mg/L	0.000069	-0.03526 mg/L	0.000137	0.39%
V 292.402†	41887.2	0.3214	mg/L	0.00543	0.6429 mg/L	0.01086	1.69%
Zn 206.200†	2152.1	0.9118	mg/L	0.01063	1.824 mg/L	0.0213	1.17%

Sequence No.: 51

Sample ID: RG78 JSPK SWC

Autosampler Location: 61

Date Collected: 8/11/2010 9:56:02 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 JSPK SWC

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: RG78 JSPK SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2249574.8	107.8	%	0.53			0.49%
ScR 361.383	260496.4	110.0	%	0.20			0.18%
Ag 328.068†	86508.9	0.4442	mg/L	0.00077	0.8885	mg/L	0.00154 0.17%
Al 308.215†	204212.9	148.0	mg/L	0.53	295.9	mg/L	1.06 0.36%
As 188.979†	2927.4	1.831	mg/L	0.0091	3.662	mg/L	0.0181 0.50%
B 249.677†	47.2	0.02011	mg/L	0.002234	0.04023	mg/L	0.004467 11.10%
Ba 233.527†	18805.1	2.332	mg/L	0.0056	4.663	mg/L	0.0113 0.24%
Be 313.042†	133553.8	0.4532	mg/L	0.00137	0.9064	mg/L	0.00273 0.30%
Ca 317.933†	319162.3	33.60	mg/L	0.100	67.20	mg/L	0.200 0.30%
Cd 228.802†	25258.2	0.4528	mg/L	0.00155	0.9056	mg/L	0.00310 0.34%
Co 228.616†	25356.4	0.4722	mg/L	0.00214	0.9445	mg/L	0.00427 0.45%
Cr 267.716†	2754.2	0.6826	mg/L	0.00385	1.365	mg/L	0.0077 0.56%
Cu 324.752†	129920.3	0.6096	mg/L	0.00096	1.219	mg/L	0.0019 0.16%
Fe 273.955†	158597.6	133.9	mg/L	1.17	267.8	mg/L	2.33 0.87%
K 766.490†	33208.1	12.40	mg/L	0.023	24.80	mg/L	0.045 0.18%
Mg 279.077†	54939.0	49.07	mg/L	0.148	98.14	mg/L	0.295 0.30%
Mn 257.610†	139506.4	3.510	mg/L	0.0076	7.020	mg/L	0.0152 0.22%
Mo 202.031†	62.1	0.00537	mg/L	0.000774	0.01073	mg/L	0.001548 14.43%
Na 589.592†	63308.6	10.18	mg/L	0.040	20.37	mg/L	0.080 0.40%
Na 330.237†	253.5	11.30	mg/L	0.082	22.60	mg/L	0.165 0.73%
Ni 231.604†	1300.1	0.7036	mg/L	0.00199	1.407	mg/L	0.0040 0.28%
Pb 220.353†	15259.7	1.950	mg/L	0.0055	3.899	mg/L	0.0110 0.28%
Sb 206.836†	103.2	-0.00651	mg/L	0.002203	-0.01303	mg/L	0.004407 33.83%
Se 196.026†	1825.2	1.792	mg/L	0.0040	3.584	mg/L	0.0079 0.22%
Si 288.158†	1455.0	1.123	mg/L	0.0100	2.247	mg/L	0.0200 0.89%
Sn 189.927†	6.6	0.00685	mg/L	0.001016	0.01370	mg/L	0.002031 14.83%
Sr 421.552†	281241.4	0.5655	mg/L	0.00259	1.131	mg/L	0.0052 0.46%
Ti 334.903†	100845.6	5.039	mg/L	0.0145	10.08	mg/L	0.029 0.29%
Tl 190.801†	3602.2	1.711	mg/L	0.0073	3.423	mg/L	0.0146 0.43%
V 292.402†	93165.3	0.7418	mg/L	0.00128	1.484	mg/L	0.0026 0.17%
Zn 206.200†	2904.7	1.230	mg/L	0.0085	2.461	mg/L	0.0170 0.69%

Sequence No.: 52
Sample ID: RG78 REF1 SWC

Autosampler Location: 62
Date Collected: 8/11/2010 10:01:53 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 REF1 SWC

Analyte	Back Pressure	Flow
All	179.0 kPa	0.55 L/min

Mean Data: RG78 REF1 SWC

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2291739.1	109.8	%	0.98			0.89%
ScR 361.383	270915.1	114.4	%	0.55			0.48%
Ag 328.068†	181844.7	0.9283	mg/L	0.01347	1.857 mg/L	0.0269	1.45%
Al 308.215†	110130.6	79.79	mg/L	0.439	159.6 mg/L	0.88	0.55%
As 188.979†	1911.5	1.192	mg/L	0.0120	2.383 mg/L	0.0240	1.01%
B 249.677†	2105.9	0.9689	mg/L	0.01214	1.938 mg/L	0.0243	1.25%
Ba 233.527†	22264.7	2.762	mg/L	0.0178	5.525 mg/L	0.0355	0.64%
Be 313.042†	236508.6	0.8042	mg/L	0.00465	1.608 mg/L	0.0093	0.58%
Ca 317.933†	347276.5	36.56	mg/L	0.202	73.12 mg/L	0.405	0.55%
Cd 228.802†	35367.9	0.6363	mg/L	0.01132	1.273 mg/L	0.0226	1.78%
Co 228.616†	34061.3	0.6433	mg/L	0.00866	1.287 mg/L	0.0173	1.35%
Cr 267.716†	2618.0	0.6493	mg/L	0.00612	1.299 mg/L	0.0122	0.94%
Cu 324.752†	132217.2	0.6201	mg/L	0.00763	1.240 mg/L	0.0153	1.23%
Fe 273.955†	146669.9	123.8	mg/L	1.10	247.7 mg/L	2.20	0.89%
K 766.490†	83543.6	31.20	mg/L	0.143	62.39 mg/L	0.285	0.46%
Mg 279.077†	26500.7	23.64	mg/L	0.149	47.27 mg/L	0.299	0.63%
Mn 257.610†	159751.5	4.019	mg/L	0.0172	8.039 mg/L	0.0344	0.43%
Mo 202.031†	4584.3	0.4065	mg/L	0.00192	0.8131 mg/L	0.00385	0.47%
Na 589.592†	31316.7	5.037	mg/L	0.0156	10.07 mg/L	0.031	0.31%
Na 330.237†	149.0	6.019	mg/L	0.2026	12.04 mg/L	0.405	3.37%
Ni 231.604†	907.7	0.4917	mg/L	0.00475	0.9834 mg/L	0.00950	0.97%
Pb 220.353†	8971.2	1.141	mg/L	0.0065	2.283 mg/L	0.0130	0.57%
Sb 206.836†	1001.6	0.4633	mg/L	0.00506	0.9266 mg/L	0.01011	1.09%
Se 196.026†	1520.0	1.485	mg/L	0.0120	2.969 mg/L	0.0239	0.81%
Si 288.158†	2263.3	1.741	mg/L	0.0104	3.482 mg/L	0.0209	0.60%
Sn 189.927†	5483.8	1.441	mg/L	0.0066	2.881 mg/L	0.0133	0.46%
Sr 421.552†	248057.8	0.4988	mg/L	0.00321	0.9975 mg/L	0.00643	0.64%
Ti 334.903†	35004.9	1.748	mg/L	0.0069	3.496 mg/L	0.0139	0.40%
Tl 190.801†	2546.9	1.208	mg/L	0.0074	2.417 mg/L	0.0148	0.61%
V 292.402†	91096.7	0.7313	mg/L	0.01339	1.463 mg/L	0.0268	1.83%
Zn 206.200†	3625.6	1.535	mg/L	0.0094	3.069 mg/L	0.0189	0.61%

Sequence No.: 53

Autosampler Location: 63

Sample ID: RG78 MB1SPK SWC

Date Collected: 8/11/2010 10:07:45 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 MB1SPK SWC

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: RG78 MB1SPK SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.		
ScA 357.253	2297139.9	110.0 %		0.76				0.70%
ScR 361.383	261089.1	110.2 %		0.76				0.69%
Ag 328.068†	89915.5	0.4571 mg/L		0.00351	0.9142 mg/L		0.00702	0.77%
Al 308.215†	2662.5	1.922 mg/L		0.0105	3.845 mg/L		0.0210	0.55%
As 188.979†	3018.2	1.878 mg/L		0.0125	3.755 mg/L		0.0250	0.67%
B 249.677†	5.6	0.00111 mg/L		0.001550	0.00221 mg/L		0.003100	140.17%
Ba 233.527†	14645.3	1.821 mg/L		0.0123	3.641 mg/L		0.0247	0.68%
Be 313.042†	137894.2	0.4688 mg/L		0.00153	0.9376 mg/L		0.00306	0.33%
Ca 317.933†	89164.3	9.387 mg/L		0.0317	18.77 mg/L		0.063	0.34%
Cd 228.802†	26061.1	0.4671 mg/L		0.00584	0.9342 mg/L		0.01168	1.25%
Co 228.616†	23688.5	0.4495 mg/L		0.00493	0.8989 mg/L		0.00986	1.10%
Cr 267.716†	1880.9	0.4653 mg/L		0.00440	0.9307 mg/L		0.00879	0.94%
Cu 324.752†	99115.3	0.4571 mg/L		0.00480	0.9143 mg/L		0.00960	1.05%
Fe 273.955†	2294.9	1.937 mg/L		0.0165	3.875 mg/L		0.0329	0.85%
K 766.490†	25350.4	9.466 mg/L		0.0431	18.93 mg/L		0.086	0.46%
Mg 279.077†	10579.4	9.464 mg/L		0.0409	18.93 mg/L		0.082	0.43%
Mn 257.610†	18210.1	0.4587 mg/L		0.00225	0.9174 mg/L		0.00451	0.49%
Mo 202.031†	8.1	0.00065 mg/L		0.000551	0.00130 mg/L		0.001102	84.82%
Na 589.592†	58118.8	9.349 mg/L		0.0346	18.70 mg/L		0.069	0.37%
Na 330.237†	250.9	10.53 mg/L		0.073	21.07 mg/L		0.145	0.69%
Ni 231.604†	839.2	0.4538 mg/L		0.00444	0.9077 mg/L		0.00889	0.98%
Pb 220.353†	14701.3	1.847 mg/L		0.0223	3.694 mg/L		0.0447	1.21%
Sb 206.836†	1.6	-0.00599 mg/L		0.001636	-0.01199 mg/L		0.003273	27.30%
Se 196.026†	1984.2	1.895 mg/L		0.0081	3.791 mg/L		0.0162	0.43%
Si 288.158†	4.5	0.00516 mg/L		0.002145	0.01032 mg/L		0.004290	41.59%
Sn 189.927†	-8.4	-0.00143 mg/L		0.000541	-0.00286 mg/L		0.001083	37.84%
Sr 421.552†	231478.4	0.4654 mg/L		0.00150	0.9309 mg/L		0.00300	0.32%
Ti 334.903†	-8.5	-0.00090 mg/L		0.000471	-0.00180 mg/L		0.000942	52.32%
Tl 190.801†	3842.6	1.841 mg/L		0.0070	3.682 mg/L		0.0140	0.38%
V 292.402†	57030.6	0.4661 mg/L		0.00503	0.9322 mg/L		0.01005	1.08%
Zn 206.200†	1067.5	0.4518 mg/L		0.00219	0.9036 mg/L		0.00437	0.48%

Sequence No.: 54

Sample ID: CV 5

Autosampler Location: 7

Date Collected: 8/11/2010 10:13:48 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc. Units			
ScA 357.253	2287720.4		109.6 %	0.19				0.17%
ScR 361.383	263339.4		111.2 %	1.07				0.96%
Ag 328.068†	173935.7		0.8841 mg/L	0.00379	0.8841 mg/L	0.00379		0.43%
Al 308.215†	2605.4		1.853 mg/L	0.0108	1.853 mg/L	0.0108		0.58%
As 188.979†	2931.9		1.824 mg/L	0.0093	1.824 mg/L	0.0093		0.51%
B 249.677†	1901.1		0.8746 mg/L	0.00947	0.8746 mg/L	0.00947		1.08%
Ba 233.527†	7194.9		0.8942 mg/L	0.00842	0.8942 mg/L	0.00842		0.94%
Be 313.042†	264179.4		0.8981 mg/L	0.00165	0.8981 mg/L	0.00165		0.18%
Ca 317.933†	17704.2		1.864 mg/L	0.0165	1.864 mg/L	0.0165		0.88%
Cd 228.802†	52174.6		0.9387 mg/L	0.00786	0.9387 mg/L	0.00786		0.84%
Co 228.616†	47245.1		0.8958 mg/L	0.00657	0.8958 mg/L	0.00657		0.73%
Cr 267.716†	3634.8		0.8998 mg/L	0.00880	0.8998 mg/L	0.00880		0.98%
Cu 324.752†	207861.3		0.9580 mg/L	0.00628	0.9580 mg/L	0.00628		0.66%
Fe 273.955†	2123.6		1.792 mg/L	0.0194	1.792 mg/L	0.0194		1.08%
K 766.490†	49393.7		18.44 mg/L	0.018	18.44 mg/L	0.018		0.10%
Mg 279.077†	2039.7		1.828 mg/L	0.0167	1.828 mg/L	0.0167		0.92%
Mn 257.610†	36054.8		0.9077 mg/L	0.00173	0.9077 mg/L	0.00173		0.19%
Mo 202.031†	10080.3		0.8941 mg/L	0.00429	0.8941 mg/L	0.00429		0.48%
Na 589.592†	282044.6		45.37 mg/L	0.092	45.37 mg/L	0.092		0.20%
Na 330.237†	1096.3		46.83 mg/L	0.278	46.83 mg/L	0.278		0.59%
Ni 231.604†	1658.8		0.8994 mg/L	0.00737	0.8994 mg/L	0.00737		0.82%
Pb 220.353†	14567.2		1.830 mg/L	0.0159	1.830 mg/L	0.0159		0.87%
Sb 206.836†	3955.9		1.942 mg/L	0.0124	1.942 mg/L	0.0124		0.64%
Se 196.026†	1899.4		1.813 mg/L	0.0102	1.813 mg/L	0.0102		0.56%
Si 288.158†	2535.4		1.948 mg/L	0.0218	1.948 mg/L	0.0218		1.12%
Sn 189.927†	3222.6		0.8451 mg/L	0.00637	0.8451 mg/L	0.00637		0.75%
Sr 421.552†	453800.1		0.9125 mg/L	0.00264	0.9125 mg/L	0.00264		0.29%
Ti 334.903†	18193.2		0.9083 mg/L	0.00276	0.9083 mg/L	0.00276		0.30%
Tl 190.801†	3732.6		1.782 mg/L	0.0069	1.782 mg/L	0.0069		0.38%
V 292.402†	110231.7		0.9060 mg/L	0.00754	0.9060 mg/L	0.00754		0.83%
Zn 206.200†	2125.3		0.8983 mg/L	0.00697	0.8983 mg/L	0.00697		0.78%

Sequence No.: 55

Sample ID: CB

Autosampler Location: 1

Date Collected: 8/11/2010 10:19:49 PM

Data Type: Original

Dilution: 1X

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2250720.4	107.8	%	2.94				2.73%
ScR 361.383	260954.6	110.2	%	0.62				0.56%
Ag 328.068†	-22.8	-0.00012	mg/L	0.000154	-0.00012	mg/L	0.000154	132.44%
Al 308.215†	7.4	0.00535	mg/L	0.012828	0.00535	mg/L	0.012828	239.57%
As 188.979†	-0.9	-0.00055	mg/L	0.001509	-0.00055	mg/L	0.001509	274.57%
B 249.677†	3.2	0.00146	mg/L	0.002839	0.00146	mg/L	0.002839	195.07%
Ba 233.527†	-2.8	-0.00034	mg/L	0.000029	-0.00034	mg/L	0.000029	8.48%
Be 313.042†	-18.7	-0.00006	mg/L	0.000072	-0.00006	mg/L	0.000072	115.32%
Ca 317.933†	6.8	0.00071	mg/L	0.002268	0.00071	mg/L	0.002268	317.84%
Cd 228.802†	-1.2	-0.00002	mg/L	0.000159	-0.00002	mg/L	0.000159	854.86%
Co 228.616†	11.8	0.00023	mg/L	0.000108	0.00023	mg/L	0.000108	47.84%
Cr 267.716†	6.2	0.00152	mg/L	0.000900	0.00152	mg/L	0.000900	59.10%
Cu 324.752†	-84.1	-0.00039	mg/L	0.000222	-0.00039	mg/L	0.000222	57.30%
Fe 273.955†	6.1	0.00515	mg/L	0.001614	0.00515	mg/L	0.001614	31.35%
K 766.490†	-267.7	-0.09996	mg/L	0.013128	-0.09996	mg/L	0.013128	13.13%
Mg 279.077†	2.6	0.00231	mg/L	0.001461	0.00231	mg/L	0.001461	63.29%
Mn 257.610†	17.0	0.00043	mg/L	0.000026	0.00043	mg/L	0.000026	6.15%
Mo 202.031†	-0.1	-0.00001	mg/L	0.000296	-0.00001	mg/L	0.000296	>999.9%
Na 589.592†	46.6	0.00750	mg/L	0.007062	0.00750	mg/L	0.007062	94.21%
Na 330.237†	24.6	1.054	mg/L	0.1859	1.054	mg/L	0.1859	17.64%
Ni 231.604†	10.0	0.00542	mg/L	0.001719	0.00542	mg/L	0.001719	31.75%
Pb 220.353†	-9.8	-0.00122	mg/L	0.000358	-0.00122	mg/L	0.000358	29.28%
Sb 206.836†	-10.4	-0.00514	mg/L	0.004252	-0.00514	mg/L	0.004252	82.65%
Se 196.026†	-0.4	-0.00038	mg/L	0.004394	-0.00038	mg/L	0.004394	>999.9%
Si 288.158†	3.1	0.00237	mg/L	0.000538	0.00237	mg/L	0.000538	22.66%
Sn 189.927†	3.2	0.00083	mg/L	0.000542	0.00083	mg/L	0.000542	65.39%
Sr 421.552†	-71.7	-0.00014	mg/L	0.000086	-0.00014	mg/L	0.000086	59.39%
Ti 334.903†	-19.2	-0.00096	mg/L	0.000893	-0.00096	mg/L	0.000893	92.99%
Tl 190.801†	-3.1	-0.00151	mg/L	0.000893	-0.00151	mg/L	0.000893	59.15%
V 292.402†	-47.7	-0.00038	mg/L	0.000204	-0.00038	mg/L	0.000204	54.11%
Zn 206.200†	0.3	0.00015	mg/L	0.000736	0.00015	mg/L	0.000736	504.29%

Sequence No.: 56
Sample ID: RG78 G SWC

Autosampler Location: 64
Date Collected: 8/11/2010 10:25:47 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 G SWC

Analyte Back Pressure Flow
All 180.0 kPa 0.55 L/min

Mean Data: RG78 G SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2272755.5	108.9	%	1.32				1.21%
ScR 361.383	260947.4	110.2	%	1.78				1.61%
Ag 328.068†	-895.2	0.00057	mg/L	0.000513	0.00113	mg/L	0.001027	90.70%
Al 308.215†	197850.2	143.4	mg/L	2.32	286.7	mg/L	4.65	1.62%
As 188.979†	30.7	0.03233	mg/L	0.000507	0.06466	mg/L	0.001013	1.57%
B 249.677†	55.3	0.02517	mg/L	0.002757	0.05034	mg/L	0.005515	10.95%
Ba 233.527†	5863.9	0.7218	mg/L	0.00921	1.444	mg/L	0.0184	1.28%
Be 313.042†	821.7	0.00170	mg/L	0.000063	0.00340	mg/L	0.000127	3.73%
Ca 317.933†	364075.4	38.33	mg/L	0.522	76.66	mg/L	1.045	1.36%
Cd 228.802†	181.9	0.00333	mg/L	0.000122	0.00666	mg/L	0.000244	3.67%
Co 228.616†	3926.5	0.06267	mg/L	0.000555	0.1253	mg/L	0.00111	0.89%
Cr 267.716†	1179.8	0.2931	mg/L	0.00211	0.5861	mg/L	0.00423	0.72%
Cu 324.752†	35324.6	0.1746	mg/L	0.00289	0.3493	mg/L	0.00577	1.65%
Fe 273.955†	179842.5	151.9	mg/L	2.80	303.7	mg/L	5.60	1.84%
K 766.490†	16102.6	6.013	mg/L	0.1058	12.03	mg/L	0.212	1.76%
Mg 279.077†	54694.6	48.84	mg/L	0.726	97.68	mg/L	1.453	1.49%
Mn 257.610†	130978.1	3.295	mg/L	0.0537	6.590	mg/L	0.1074	1.63%
Mo 202.031†	50.5	0.00440	mg/L	0.000188	0.00881	mg/L	0.000377	4.28%
Na 589.592†	11366.3	1.828	mg/L	0.0319	3.657	mg/L	0.0638	1.74%
Na 330.237†	49.3	3.035	mg/L	0.2023	6.069	mg/L	0.4046	6.67%
Ni 231.604†	559.3	0.3030	mg/L	0.00184	0.6061	mg/L	0.00368	0.61%
Pb 220.353†	2484.6	0.3428	mg/L	0.00222	0.6856	mg/L	0.00444	0.65%
Sb 206.836†	87.7	-0.00833	mg/L	0.002874	-0.01666	mg/L	0.005748	34.51%
Se 196.026†	-61.1	-0.00739	mg/L	0.002458	-0.01478	mg/L	0.004916	33.26%
Si 288.158†	2149.8	1.656	mg/L	0.0182	3.312	mg/L	0.0363	1.10%
Sn 189.927†	12.1	0.00917	mg/L	0.000841	0.01835	mg/L	0.001682	9.17%
Sr 421.552†	104823.9	0.2108	mg/L	0.00364	0.4215	mg/L	0.00729	1.73%
Ti 334.903†	134844.1	6.739	mg/L	0.1011	13.48	mg/L	0.202	1.50%
Tl 190.801†	-2.5	-0.01941	mg/L	0.001866	-0.03881	mg/L	0.003731	9.61%
V 292.402†	47799.9	0.3672	mg/L	0.00614	0.7344	mg/L	0.01228	1.67%
Zn 206.200†	1770.0	0.7506	mg/L	0.00763	1.501	mg/L	0.0153	1.02%

Sequence No.: 57
Sample ID: RG78 H SWC

Autosampler Location: 65
Date Collected: 8/11/2010 10:31:50 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 H SWC

Analyte Back Pressure Flow
All 180.0 kPa 0.55 L/min

Mean Data: RG78 H SWC

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity				Conc.	Units		
ScA 357.253	2269434.5		108.7 %	0.84				0.77%
ScR 361.383	264824.4		111.8 %	1.32				1.18%
Ag 328.068†	-926.6	0.00066	mg/L	0.000328	0.00132	mg/L	0.000657	49.69%
Al 308.215†	200164.9	0.00166	mg/L	0.32	290.1	mg/L	0.63	0.22%
As 188.979†	37.6	0.03641	mg/L	0.002551	0.07283	mg/L	0.005102	7.01%
B 249.677†	57.4	0.02616	mg/L	0.001894	0.05232	mg/L	0.003788	7.24%
Ba 233.527†	6063.7	0.7464	mg/L	0.00744	1.493	mg/L	0.0149	1.00%
Be 313.042†	822.2	0.00166	mg/L	0.000032	0.00332	mg/L	0.000063	1.90%
Ca 317.933†	396624.5	41.75	mg/L	0.071	83.51	mg/L	0.142	0.17%
Cd 228.802†	199.0	0.00363	mg/L	0.000142	0.00726	mg/L	0.000284	3.92%
Co 228.616†	3656.4	0.05772	mg/L	0.000838	0.1154	mg/L	0.00168	1.45%
Cr 267.716†	1159.0	0.2878	mg/L	0.00153	0.5756	mg/L	0.00306	0.53%
Cu 324.752†	36758.1	0.1817	mg/L	0.00054	0.3633	mg/L	0.00109	0.30%
Fe 273.955†	185093.9	156.3	mg/L	0.86	312.6	mg/L	1.73	0.55%
K 766.490†	14234.0	5.315	mg/L	0.0639	10.63	mg/L	0.128	1.20%
Mg 279.077†	60648.9	54.17	mg/L	0.107	108.3	mg/L	0.21	0.20%
Mn 257.610†	107260.0	2.698	mg/L	0.0023	5.396	mg/L	0.0047	0.09%
Mo 202.031†	54.7	0.00477	mg/L	0.000185	0.00954	mg/L	0.000369	3.87%
Na 589.592†	23336.9	3.754	mg/L	0.0196	7.508	mg/L	0.0392	0.52%
Na 330.237†	99.0	5.090	mg/L	0.1330	10.18	mg/L	0.266	2.61%
Ni 231.604†	542.5	0.2939	mg/L	0.00350	0.5879	mg/L	0.00700	1.19%
Pb 220.353†	2545.5	0.3506	mg/L	0.00447	0.7012	mg/L	0.00894	1.27%
Sb 206.836†	90.1	-0.00825	mg/L	0.000386	-0.01649	mg/L	0.000773	4.68%
Se 196.026†	-63.9	-0.00842	mg/L	0.002633	-0.01684	mg/L	0.005266	31.27%
Si 288.158†	2023.0	1.560	mg/L	0.0152	3.119	mg/L	0.0303	0.97%
Sn 189.927†	7.8	0.00834	mg/L	0.001550	0.01668	mg/L	0.003100	18.58%
Sr 421.552†	131711.6	0.2648	mg/L	0.00085	0.5297	mg/L	0.00169	0.32%
Ti 334.903†	132685.0	6.631	mg/L	0.0070	13.26	mg/L	0.014	0.11%
Tl 190.801†	-6.9	-0.02060	mg/L	0.000418	-0.04120	mg/L	0.000837	2.03%
V 292.402†	49947.0	0.3841	mg/L	0.00152	0.7682	mg/L	0.00305	0.40%
Zn 206.200†	1997.2	0.8469	mg/L	0.00744	1.694	mg/L	0.0149	0.88%

Sequence No.: 58
Sample ID: RG78 I SWC

Autosampler Location: 66
Date Collected: 8/11/2010 10:37:54 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 I SWC

Analyte Back Pressure Flow
All 180.0 kPa 0.55 L/min

Mean Data: RG78 I SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2274915.2	109.0	%	0.28				0.25%
ScR 361.383	264448.6	111.7	%	0.54				0.48%
Ag 328.068†	-865.6	0.00040	mg/L	0.000182	0.00081	mg/L	0.000364	44.95%
Al 308.215†	200616.1	145.4	mg/L	0.83	290.7	mg/L	1.67	0.57%
As 188.979†	39.2	0.03631	mg/L	0.000666	0.07262	mg/L	0.001332	1.83%
B 249.677†	52.5	0.02391	mg/L	0.001084	0.04782	mg/L	0.002168	4.53%
Ba 233.527†	6576.2	0.8107	mg/L	0.00796	1.621	mg/L	0.0159	0.98%
Be 313.042†	783.4	0.00166	mg/L	0.000011	0.00332	mg/L	0.000022	0.66%
Ca 317.933†	347913.4	36.63	mg/L	0.238	73.25	mg/L	0.476	0.65%
Cd 228.802†	205.3	0.00374	mg/L	0.000068	0.00749	mg/L	0.000137	1.83%
Co 228.616†	3681.8	0.05917	mg/L	0.000412	0.1183	mg/L	0.00082	0.70%
Cr 267.716†	1097.4	0.2725	mg/L	0.00144	0.5450	mg/L	0.00289	0.53%
Cu 324.752†	41541.1	0.2028	mg/L	0.00121	0.4056	mg/L	0.00242	0.60%
Fe 273.955†	170896.5	144.3	mg/L	0.93	288.6	mg/L	1.86	0.64%
K 766.490†	15296.6	5.712	mg/L	0.0253	11.42	mg/L	0.051	0.44%
Mg 279.077†	55930.0	49.95	mg/L	0.335	99.90	mg/L	0.671	0.67%
Mn 257.610†	136304.2	3.429	mg/L	0.0213	6.858	mg/L	0.0426	0.62%
Mo 202.031†	103.7	0.00913	mg/L	0.000135	0.01826	mg/L	0.000271	1.48%
Na 589.592†	12586.2	2.025	mg/L	0.0041	4.049	mg/L	0.0082	0.20%
Na 330.237†	58.0	3.286	mg/L	0.2798	6.571	mg/L	0.5597	8.52%
Ni 231.604†	570.4	0.3091	mg/L	0.00263	0.6182	mg/L	0.00526	0.85%
Pb 220.353†	2373.9	0.3299	mg/L	0.00027	0.6598	mg/L	0.00054	0.08%
Sb 206.836†	89.0	-0.00777	mg/L	0.000998	-0.01553	mg/L	0.001995	12.84%
Se 196.026†	-60.1	-0.00749	mg/L	0.002973	-0.01497	mg/L	0.005945	39.71%
Si 288.158†	1570.4	1.212	mg/L	0.0091	2.424	mg/L	0.0181	0.75%
Sn 189.927†	-5.5	0.00425	mg/L	0.000956	0.00849	mg/L	0.001912	22.50%
Sr 421.552†	114303.1	0.2298	mg/L	0.00119	0.4597	mg/L	0.00239	0.52%
Ti 334.903†	121281.3	6.061	mg/L	0.0373	12.12	mg/L	0.075	0.62%
Tl 190.801†	-11.3	-0.02247	mg/L	0.002721	-0.04495	mg/L	0.005442	12.11%
V 292.402†	43919.7	0.3370	mg/L	0.00153	0.6741	mg/L	0.00306	0.45%
Zn 206.200†	1713.0	0.7265	mg/L	0.00739	1.453	mg/L	0.0148	1.02%

Sequence No.: 59
Sample ID: RG78 K SWC

Autosampler Location: 67
Date Collected: 8/11/2010 10:43:57 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 K SWC

Analyte Back Pressure Flow
All 179.0 kPa 0.55 L/min

Mean Data: RG78 K SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2336839.1	111.9	%	0.14				0.12%
ScR 361.383	266459.0	112.5	%	0.39				0.35%
Ag 328.068†	-985.3	0.00057	mg/L	0.000139	0.00113	mg/L	0.000277	24.49%
Al 308.215†	162531.5	117.8	mg/L	0.23	235.5	mg/L	0.47	0.20%
As 188.979†	25.4	0.02904	mg/L	0.002482	0.05807	mg/L	0.004964	8.55%
B 249.677†	35.3	0.01596	mg/L	0.002141	0.03193	mg/L	0.004283	13.41%
Ba 233.527†	3698.7	0.4522	mg/L	0.00094	0.9043	mg/L	0.00188	0.21%
Be 313.042†	726.2	0.00128	mg/L	0.000041	0.00257	mg/L	0.000082	3.22%
Ca 317.933†	352376.4	37.10	mg/L	0.171	74.19	mg/L	0.342	0.46%
Cd 228.802†	47.1	0.00089	mg/L	0.000048	0.00178	mg/L	0.000096	5.40%
Co 228.616†	3705.0	0.05851	mg/L	0.000163	0.1170	mg/L	0.00033	0.28%
Cr 267.716†	1201.7	0.2987	mg/L	0.00079	0.5974	mg/L	0.00159	0.27%
Cu 324.752†	22724.0	0.1173	mg/L	0.00078	0.2345	mg/L	0.00155	0.66%
Fe 273.955†	189021.1	159.6	mg/L	0.31	319.2	mg/L	0.61	0.19%
K 766.490†	17665.9	6.597	mg/L	0.0141	13.19	mg/L	0.028	0.21%
Mg 279.077†	53049.0	47.36	mg/L	0.067	94.73	mg/L	0.134	0.14%
Mn 257.610†	99609.6	2.506	mg/L	0.0042	5.011	mg/L	0.0084	0.17%
Mo 202.031†	61.9	0.00545	mg/L	0.000425	0.01091	mg/L	0.000849	7.79%
Na 589.592†	10225.3	1.645	mg/L	0.0011	3.290	mg/L	0.0022	0.07%
Na 330.237†	45.4	3.041	mg/L	0.0655	6.082	mg/L	0.1309	2.15%
Ni 231.604†	491.2	0.2662	mg/L	0.00282	0.5323	mg/L	0.00565	1.06%
Pb 220.353†	-7.4	0.02225	mg/L	0.001593	0.04450	mg/L	0.003185	7.16%
Sb 206.836†	67.8	-0.01339	mg/L	0.003178	-0.02677	mg/L	0.006356	23.74%
Se 196.026†	-59.2	-0.00868	mg/L	0.007059	-0.01735	mg/L	0.014119	81.37%
Si 288.158†	2216.9	1.707	mg/L	0.0200	3.415	mg/L	0.0399	1.17%
Sn 189.927†	-43.1	-0.00539	mg/L	0.000399	-0.01078	mg/L	0.000798	7.41%
Sr 421.552†	89104.0	0.1792	mg/L	0.00015	0.3583	mg/L	0.00030	0.08%
Ti 334.903†	135139.0	6.753	mg/L	0.0098	13.51	mg/L	0.020	0.15%
Tl 190.801†	-9.4	-0.02184	mg/L	0.001694	-0.04368	mg/L	0.003389	7.76%
V 292.402†	52264.6	0.4025	mg/L	0.00392	0.8049	mg/L	0.00784	0.97%
Zn 206.200†	580.1	0.2472	mg/L	0.00304	0.4944	mg/L	0.00607	1.23%

Sequence No.: 60
Sample ID: RG78 L SWC

Autosampler Location: 68
Date Collected: 8/11/2010 10:49:58 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 L SWC

Analyte Back Pressure Flow
All 180.0 kPa 0.55 L/min

Mean Data: RG78 L SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2335680.0	111.9	%	0.54				0.48%
ScR 361.383	268398.0	113.3	%	1.03				0.91%
Ag 328.068†	-902.2	0.00037	mg/L	0.000035	0.00073	mg/L	0.000070	9.61%
Al 308.215†	156994.4	113.8	mg/L	0.41	227.5	mg/L	0.82	0.36%
As 188.979†	12.6	0.01741	mg/L	0.001153	0.03481	mg/L	0.002306	6.62%
B 249.677†	35.4	0.01601	mg/L	0.001348	0.03201	mg/L	0.002696	8.42%
Ba 233.527†	3736.3	0.4575	mg/L	0.00420	0.9150	mg/L	0.00841	0.92%
Be 313.042†	621.6	0.00115	mg/L	0.000057	0.00229	mg/L	0.000115	5.01%
Ca 317.933†	358799.7	37.77	mg/L	0.070	75.54	mg/L	0.140	0.19%
Cd 228.802†	47.8	0.00095	mg/L	0.000068	0.00190	mg/L	0.000136	7.16%
Co 228.616†	4181.2	0.07079	mg/L	0.000393	0.1416	mg/L	0.00079	0.56%
Cr 267.716†	1115.0	0.2768	mg/L	0.00254	0.5536	mg/L	0.00509	0.92%
Cu 324.752†	35702.0	0.1763	mg/L	0.00221	0.3527	mg/L	0.00442	1.25%
Fe 273.955†	172850.7	146.0	mg/L	0.68	291.9	mg/L	1.35	0.46%
K 766.490†	15980.0	5.967	mg/L	0.0220	11.93	mg/L	0.044	0.37%
Mg 279.077†	60881.4	54.38	mg/L	0.115	108.8	mg/L	0.23	0.21%
Mn 257.610†	115017.1	2.893	mg/L	0.0077	5.787	mg/L	0.0154	0.27%
Mo 202.031†	37.5	0.00328	mg/L	0.000243	0.00656	mg/L	0.000485	7.40%
Na 589.592†	14097.4	2.268	mg/L	0.0154	4.535	mg/L	0.0308	0.68%
Na 330.237†	76.6	3.970	mg/L	0.2482	7.940	mg/L	0.4964	6.25%
Ni 231.604†	683.9	0.3706	mg/L	0.00177	0.7411	mg/L	0.00355	0.48%
Pb 220.353†	-52.6	0.01622	mg/L	0.000405	0.03244	mg/L	0.000810	2.50%
Sb 206.836†	69.2	-0.01215	mg/L	0.001147	-0.02429	mg/L	0.002294	9.44%
Se 196.026†	-58.4	-0.01146	mg/L	0.001775	-0.02291	mg/L	0.003549	15.49%
Si 288.158†	1934.1	1.491	mg/L	0.0100	2.983	mg/L	0.0200	0.67%
Sn 189.927†	-44.3	-0.00619	mg/L	0.001021	-0.01237	mg/L	0.002041	16.50%
Sr 421.552†	160006.7	0.3217	mg/L	0.00123	0.6435	mg/L	0.00246	0.38%
Ti 334.903†	97784.6	4.886	mg/L	0.0116	9.772	mg/L	0.0233	0.24%
Tl 190.801†	-16.4	-0.02230	mg/L	0.002905	-0.04460	mg/L	0.005810	13.03%
V 292.402†	43004.6	0.3303	mg/L	0.00311	0.6606	mg/L	0.00622	0.94%
Zn 206.200†	643.3	0.2741	mg/L	0.00116	0.5483	mg/L	0.00232	0.42%

Sequence No.: 61
Sample ID: RG78 S SWC

Autosampler Location: 69
Date Collected: 8/11/2010 10:56:00 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG78 S SWC

Analyte Back Pressure Flow
All 181.0 kPa 0.55 L/min

Mean Data: RG78 S SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2325401.3	111.4	%	0.35			0.32%
ScR 361.383	267534.3	113.0	%	0.76			0.67%
Ag 328.068†	1024.6	0.00043	mg/L	0.000327	0.00085 mg/L	0.000654	76.82%
Al 308.215†	149207.3	108.1	mg/L	0.41	216.2 mg/L	0.81	0.38%
As 188.979†	15.4	0.02177	mg/L	0.000215	0.04354 mg/L	0.000429	0.99%
B 249.677†	33.8	0.01525	mg/L	0.001740	0.03050 mg/L	0.003481	11.41%
Ba 233.527†	10334.9	1.276	mg/L	0.0140	2.552 mg/L	0.0279	1.09%
Be 313.042†	619.7	0.00111	mg/L	0.000055	0.00223 mg/L	0.000110	4.93%
Ca 317.933†	339657.5	35.76	mg/L	0.042	71.51 mg/L	0.085	0.12%
Cd 228.802†	60.1	0.00133	mg/L	0.000039	0.00266 mg/L	0.000078	2.94%
Co 228.616†	5157.6	0.08675	mg/L	0.000316	0.1735 mg/L	0.00063	0.36%
Cr 267.716†	1144.3	0.2849	mg/L	0.00303	0.5698 mg/L	0.00605	1.06%
Cu 324.752†	29340.5	0.1499	mg/L	0.00113	0.2998 mg/L	0.00226	0.75%
Fe 273.955†	215477.2	181.9	mg/L	0.46	363.9 mg/L	0.92	0.25%
K 766.490†	13820.2	5.161	mg/L	0.0174	10.32 mg/L	0.035	0.34%
Mg 279.077†	55190.2	49.27	mg/L	0.148	98.53 mg/L	0.296	0.30%
Mn 257.610†	2642264.1	66.48	mg/L	0.649	133.0 mg/L	1.30	0.98%
Mo 202.031†	181.1	0.01602	mg/L	0.000416	0.03204 mg/L	0.000831	2.59%
Na 589.592†	7803.9	1.255	mg/L	0.0098	2.511 mg/L	0.0197	0.78%
Na 330.237†	34.3	2.444	mg/L	0.1953	4.888 mg/L	0.3905	7.99%
Ni 231.604†	1718.7	0.9311	mg/L	0.00794	1.862 mg/L	0.0159	0.85%
Pb 220.353†	27.0	0.02217	mg/L	0.000391	0.04434 mg/L	0.000783	1.76%
Sb 206.836†	82.0	-0.00840	mg/L	0.000975	-0.01679 mg/L	0.001951	11.62%
Se 196.026†	-39.5	-0.05105	mg/L	0.005055	-0.1021 mg/L	0.01011	9.90%
Si 288.158†	1676.9	1.293	mg/L	0.0191	2.587 mg/L	0.0382	1.48%
Sn 189.927†	-76.8	-0.01446	mg/L	0.000493	-0.02891 mg/L	0.000986	3.41%
Sr 421.552†	143114.6	0.2878	mg/L	0.00192	0.5755 mg/L	0.00384	0.67%
Ti 334.903†	124268.1	6.210	mg/L	0.0595	12.42 mg/L	0.119	0.96%
Tl 190.801†	159.0	-0.02423	mg/L	0.001218	-0.04846 mg/L	0.002437	5.03%
V 292.402†	43315.0	0.3369	mg/L	0.00224	0.6737 mg/L	0.00447	0.66%
Zn 206.200†	680.5	0.2897	mg/L	0.00408	0.5794 mg/L	0.00816	1.41%

Sequence No.: 62

Autosampler Location: 70

Sample ID: RG79 A SWC

Date Collected: 8/11/2010 11:02:22 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG79 A SWC

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: RG79 A SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2325844.8	111.4	%	0.69				0.62%
ScR 361.383	271339.2	114.6	%	0.44				0.38%
Ag 328.068†	-1023.2	0.00012	mg/L	0.000152	0.00024	mg/L	0.000304	125.26%
Al 308.215†	189099.1	137.0	mg/L	0.45	274.0	mg/L	0.91	0.33%
As 188.979†	34.3	0.03588	mg/L	0.002675	0.07176	mg/L	0.005349	7.45%
B 249.677†	40.9	0.01853	mg/L	0.003485	0.03706	mg/L	0.006971	18.81%
Ba 233.527†	5564.9	0.6843	mg/L	0.00492	1.369	mg/L	0.0098	0.72%
Be 313.042†	820.8	0.00163	mg/L	0.000065	0.00326	mg/L	0.000131	4.01%
Ca 317.933†	435679.4	45.87	mg/L	0.088	91.73	mg/L	0.175	0.19%
Cd 228.802†	96.9	0.00177	mg/L	0.000063	0.00355	mg/L	0.000126	3.55%
Co 228.616†	3938.8	0.06176	mg/L	0.000579	0.1235	mg/L	0.00116	0.94%
Cr 267.716†	1315.2	0.3268	mg/L	0.00176	0.6536	mg/L	0.00353	0.54%
Cu 324.752†	32081.2	0.1601	mg/L	0.00105	0.3202	mg/L	0.00211	0.66%
Fe 273.955†	187455.9	158.3	mg/L	1.29	316.6	mg/L	2.57	0.81%
K 766.490†	13994.3	5.226	mg/L	0.0240	10.45	mg/L	0.048	0.46%
Mg 279.077†	45920.9	40.99	mg/L	0.129	81.98	mg/L	0.258	0.31%
Mn 257.610†	128381.2	3.229	mg/L	0.0076	6.459	mg/L	0.0151	0.23%
Mo 202.031†	128.4	0.01134	mg/L	0.000486	0.02268	mg/L	0.000972	4.28%
Na 589.592†	19621.5	3.156	mg/L	0.0094	6.312	mg/L	0.0188	0.30%
Na 330.237†	77.3	4.440	mg/L	0.3337	8.880	mg/L	0.6675	7.52%
Ni 231.604†	440.7	0.2388	mg/L	0.00054	0.4776	mg/L	0.00107	0.23%
Pb 220.353†	636.7	0.1087	mg/L	0.00091	0.2173	mg/L	0.00181	0.83%
Sb 206.836†	78.9	-0.01186	mg/L	0.005839	-0.02372	mg/L	0.011678	49.23%
Se 196.026†	-67.7	-0.01379	mg/L	0.006850	-0.02758	mg/L	0.013701	49.67%
Si 288.158†	8748.3	6.718	mg/L	0.0627	13.44	mg/L	0.125	0.93%
Sn 189.927†	-36.0	-0.00299	mg/L	0.000373	-0.00599	mg/L	0.000747	12.48%
Sr 421.552†	199347.5	0.4008	mg/L	0.00150	0.8017	mg/L	0.00299	0.37%
Ti 334.903†	148175.2	7.405	mg/L	0.0139	14.81	mg/L	0.028	0.19%
Tl 190.801†	-6.0	-0.02220	mg/L	0.003350	-0.04440	mg/L	0.006700	15.09%
V 292.402†	50513.4	0.3882	mg/L	0.00144	0.7763	mg/L	0.00287	0.37%
Zn 206.200†	927.5	0.3943	mg/L	0.00144	0.7885	mg/L	0.00289	0.37%

Sequence No.: 63

Autosampler Location: 71

Sample ID: RG79 B SWC

Date Collected: 8/11/2010 11:08:25 PM

Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG79 B SWC

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: RG79 B SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2310931.6	110.7	%	1.24				1.12%
ScR 361.383	267830.9	113.1	%	0.40				0.36%
Ag 328.068†	-960.2	0.00028	mg/L	0.000268	0.00057	mg/L	0.000536	94.40%
Al 308.215†	175425.5	127.1	mg/L	0.21	254.2	mg/L	0.41	0.16%
As 188.979†	54.5	0.04508	mg/L	0.000742	0.09016	mg/L	0.001484	1.65%
B 249.677†	58.8	0.02671	mg/L	0.001630	0.05341	mg/L	0.003259	6.10%
Ba 233.527†	23794.0	2.951	mg/L	0.0096	5.902	mg/L	0.0192	0.33%
Be 313.042†	763.6	0.00164	mg/L	0.000010	0.00328	mg/L	0.000021	0.63%
Ca 317.933†	347904.0	36.63	mg/L	0.037	73.25	mg/L	0.074	0.10%
Cd 228.802†	1115.5	0.02016	mg/L	0.000122	0.04031	mg/L	0.000244	0.61%
Co 228.616†	5078.1	0.08567	mg/L	0.000640	0.1713	mg/L	0.00128	0.75%
Cr 267.716†	1751.6	0.4347	mg/L	0.00206	0.8695	mg/L	0.00412	0.47%
Cu 324.752†	102932.3	0.4865	mg/L	0.00401	0.9731	mg/L	0.00802	0.82%
Fe 273.955†	180583.4	152.5	mg/L	0.60	305.0	mg/L	1.20	0.39%
K 766.490†	10180.6	3.802	mg/L	0.0300	7.603	mg/L	0.0599	0.79%
Mg 279.077†	50759.3	45.32	mg/L	0.056	90.64	mg/L	0.112	0.12%
Mn 257.610†	125984.2	3.170	mg/L	0.0039	6.340	mg/L	0.0077	0.12%
Mo 202.031†	59.5	0.00499	mg/L	0.000275	0.00998	mg/L	0.000550	5.51%
Na 589.592†	7826.4	1.259	mg/L	0.0095	2.518	mg/L	0.0189	0.75%
Na 330.237†	63.5	2.450	mg/L	0.1133	4.901	mg/L	0.2265	4.62%
Ni 231.604†	576.9	0.3126	mg/L	0.00210	0.6252	mg/L	0.00420	0.67%
Pb 220.353†	22359.0	2.834	mg/L	0.0195	5.667	mg/L	0.0390	0.69%
Sb 206.836†	93.1	-0.00570	mg/L	0.002461	-0.01139	mg/L	0.004922	43.20%
Se 196.026†	-70.9	-0.01984	mg/L	0.009276	-0.03968	mg/L	0.018552	46.76%
Si 288.158†	6935.6	5.328	mg/L	0.0151	10.66	mg/L	0.030	0.28%
Sn 189.927†	99.0	0.03138	mg/L	0.001296	0.06276	mg/L	0.002592	4.13%
Sr 421.552†	92314.8	0.1856	mg/L	0.00028	0.3712	mg/L	0.00057	0.15%
Ti 334.903†	114809.7	5.737	mg/L	0.0068	11.47	mg/L	0.014	0.12%
Tl 190.801†	-9.9	-0.02110	mg/L	0.003599	-0.04220	mg/L	0.007199	17.06%
V 292.402†	41955.4	0.3214	mg/L	0.00252	0.6427	mg/L	0.00504	0.78%
Zn 206.200†	9191.9	3.890	mg/L	0.0123	7.780	mg/L	0.0246	0.32%

Sequence No.: 64
Sample ID: RG79 C SWC

Autosampler Location: 72
Date Collected: 8/11/2010 11:14:28 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG79 C SWC

Analyte Back Pressure Flow
All 180.0 kPa 0.55 L/min

Mean Data: RG79 C SWC

Analyte	Mean Corrected		Calib. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
ScA 357.253	2323153.0	111.3	%	0.72				0.64%
ScR 361.383	268996.8	113.6	%	0.92				0.81%
Ag 328.068†	-1238.4	0.00163	mg/L	0.000187	0.00327	mg/L	0.000375	11.47%
Al 308.215†	175928.1	127.5	mg/L	0.18	254.9	mg/L	0.36	0.14%
As 188.979†	77.6	0.06057	mg/L	0.002586	0.1211	mg/L	0.00517	4.27%
B 249.677†	83.3	0.03788	mg/L	0.004832	0.07575	mg/L	0.009663	12.76%
Ba 233.527†	30226.7	3.747	mg/L	0.0199	7.495	mg/L	0.0397	0.53%
Be 313.042†	1123.1	0.00176	mg/L	0.000051	0.00351	mg/L	0.000102	2.89%
Ca 317.933†	418398.6	44.05	mg/L	0.027	88.09	mg/L	0.055	0.06%
Cd 228.802†	6112.7	0.1105	mg/L	0.00075	0.2210	mg/L	0.00151	0.68%
Co 228.616†	6286.3	0.1070	mg/L	0.00065	0.2140	mg/L	0.00130	0.61%
Cr 267.716†	3171.1	0.7873	mg/L	0.00182	1.575	mg/L	0.0036	0.23%
Cu 324.752†	761658.4	3.529	mg/L	0.0040	7.057	mg/L	0.0079	0.11%
Fe 273.955†	265186.2	223.9	mg/L	0.55	447.8	mg/L	1.10	0.25%
K 766.490†	16323.9	6.096	mg/L	0.0073	12.19	mg/L	0.015	0.12%
Mg 279.077†	52162.1	46.53	mg/L	0.013	93.07	mg/L	0.026	0.03%
Mn 257.610†	138189.4	3.480	mg/L	0.0031	6.961	mg/L	0.0061	0.09%
Mo 202.031†	407.6	0.03562	mg/L	0.000216	0.07125	mg/L	0.000433	0.61%
Na 589.592†	27932.2	4.493	mg/L	0.0136	8.986	mg/L	0.0273	0.30%
Na 330.237†	158.8	5.569	mg/L	0.1126	11.14	mg/L	0.225	2.02%
Ni 231.604†	1670.5	0.9051	mg/L	0.00355	1.810	mg/L	0.0071	0.39%
Pb 220.353†	121103.4	15.23	mg/L	0.090	30.45	mg/L	0.181	0.59%
Sb 206.836†	155.2	0.01270	mg/L	0.002377	0.02540	mg/L	0.004754	18.72%
Se 196.026†	-76.9	-0.01458	mg/L	0.003742	-0.02915	mg/L	0.007485	25.67%
Si 288.158†	4880.4	3.751	mg/L	0.0146	7.503	mg/L	0.0291	0.39%
Sn 189.927†	919.1	0.2471	mg/L	0.00127	0.4941	mg/L	0.00254	0.51%
Sr 421.552†	120614.0	0.2425	mg/L	0.00058	0.4850	mg/L	0.00116	0.24%
Ti 334.903†	130581.0	6.525	mg/L	0.0071	13.05	mg/L	0.014	0.11%
Tl 190.801†	-16.9	-0.02846	mg/L	0.003765	-0.05692	mg/L	0.007531	13.23%
V 292.402†	94505.1	0.7417	mg/L	0.00400	1.483	mg/L	0.0080	0.54%
Zn 206.200†	17239.0	7.295	mg/L	0.0372	14.59	mg/L	0.074	0.51%

Sequence No.: 65
Sample ID: RG79 D SWC

Autosampler Location: 73
Date Collected: 8/11/2010 11:20:32 PM
Data Type: Original

Dilution: 2X

Nebulizer Parameters: RG79 D SWC

Analyte Back Pressure Flow
All 180.0 kPa 0.55 L/min

rem

Mean Data: RG79 D SWC

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2265190.9	108.5	%	4.88			4.50%
ScR 361.383	270090.7	114.0	%	1.16			1.01%
Ag 328.068†	-1215.7	0.00144	mg/L	0.000405	0.00289 mg/L	0.000809	28.03%
Al 308.215†	157523.4	114.1	mg/L	0.33	228.3 mg/L	0.66	0.29%
As 188.979†	67.7	0.05278	mg/L	0.002151	0.1056 mg/L	0.00430	4.08%
B 249.677†	85.3	0.03891	mg/L	0.002521	0.07781 mg/L	0.005041	6.48%
Ba 233.527†	26455.7	3.279	mg/L	0.0542	6.558 mg/L	0.1084	1.65%
Be 313.042†	707.0	0.00141	mg/L	0.000044	0.00283 mg/L	0.000088	3.12%
Ca 317.933†	421791.7	44.40	mg/L	0.099	88.81 mg/L	0.198	0.22%
Cd 228.802†	8502.9	0.1535	mg/L	0.00688	0.3070 mg/L	0.01376	4.48%
Co 228.616†	5273.7	0.08960	mg/L	0.004516	0.1792 mg/L	0.00903	5.04%
Cr 267.716†	2171.8	0.5400	mg/L	0.00964	1.080 mg/L	0.0193	1.79%
Cu 324.752†	854637.1	3.957	mg/L	0.1975	7.914 mg/L	0.3950	4.99%
Fe 273.955†	258730.1	218.5	mg/L	0.16	436.9 mg/L	0.32	0.07%
K 766.490†	13677.8	5.108	mg/L	0.0133	10.22 mg/L	0.027	0.26%
Mg 279.077†	47215.1	42.11	mg/L	0.131	84.22 mg/L	0.261	0.31%
Mn 257.610†	136707.7	3.445	mg/L	0.0068	6.890 mg/L	0.0135	0.20%
Mo 202.031†	271.2	0.02358	mg/L	0.000947	0.04716 mg/L	0.001893	4.01%
Na 589.592†	13769.8	2.215	mg/L	0.0180	4.430 mg/L	0.0360	0.81%
Na 330.237†	108.1	3.355	mg/L	0.1450	6.711 mg/L	0.2901	4.32%
Ni 231.604†	625.8	0.3391	mg/L	0.00664	0.6782 mg/L	0.01328	1.96%
Pb 220.353†	177953.1	22.36	mg/L	1.049	44.72 mg/L	2.099	4.69%
Sb 206.836†	163.1	0.02275	mg/L	0.006030	0.04549 mg/L	0.012060	26.51%
Se 196.026†	-80.0	-0.02021	mg/L	0.004163	-0.04042 mg/L	0.008326	20.60%
Si 288.158†	6241.1	4.795	mg/L	0.0769	9.589 mg/L	0.1537	1.60%
Sn 189.927†	1317.5	0.3510	mg/L	0.01702	0.7021 mg/L	0.03403	4.85%
Sr 421.552†	111376.1	0.2239	mg/L	0.00048	0.4479 mg/L	0.00097	0.22%
Ti 334.903†	111268.3	5.560	mg/L	0.0103	11.12 mg/L	0.021	0.18%
Tl 190.801†	-24.7	-0.02834	mg/L	0.003254	-0.05667 mg/L	0.006509	11.48%
V 292.402†	43714.2	0.3289	mg/L	0.01738	0.6577 mg/L	0.03475	5.28%
Zn 206.200†	16004.5	6.773	mg/L	0.1117	13.55 mg/L	0.223	1.65%

Sequence No.: 66

Autosampler Location: 7

Sample ID: CV

Date Collected: 8/11/2010 11:26:37 PM

Dilution: 1X

Data Type: Original

Nebulizer Parameters: CV

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: CV

Analyte	Mean Corrected		Calib.		Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
ScA 357.253	2298047.2	110.1	%	0.98				0.89%
ScR 361.383	265521.0	112.1	%	0.07				0.07%
Ag 328.068†	173168.9	0.8802	mg/L	0.00675	0.8802	mg/L	0.00675	0.77%
Al 308.215†	2598.1	1.848	mg/L	0.0095	1.848	mg/L	0.0095	0.51%
As 188.979†	2921.4	1.817	mg/L	0.0199	1.817	mg/L	0.0199	1.10%
B 249.677†	1892.5	0.8706	mg/L	0.00924	0.8706	mg/L	0.00924	1.06%
Ba 233.527†	7207.2	0.8957	mg/L	0.00142	0.8957	mg/L	0.00142	0.16%
Be 313.042†	264795.7	0.9002	mg/L	0.00251	0.9002	mg/L	0.00251	0.28%
Ca 317.933†	17776.5	1.871	mg/L	0.0039	1.871	mg/L	0.0039	0.21%
Cd 228.802†	51919.3	0.9341	mg/L	0.00637	0.9341	mg/L	0.00637	0.68%
Co 228.616†	47250.2	0.8959	mg/L	0.00467	0.8959	mg/L	0.00467	0.52%
Cr 267.716†	3650.0	0.9036	mg/L	0.00186	0.9036	mg/L	0.00186	0.21%
Cu 324.752†	209663.0	0.9663	mg/L	0.00619	0.9663	mg/L	0.00619	0.64%
Fe 273.955†	2147.2	1.812	mg/L	0.0063	1.812	mg/L	0.0063	0.35%
K 766.490†	48827.0	18.23	mg/L	0.015	18.23	mg/L	0.015	0.08%
Mg 279.077†	2044.0	1.832	mg/L	0.0050	1.832	mg/L	0.0050	0.27%
Mn 257.610†	35967.7	0.9055	mg/L	0.00226	0.9055	mg/L	0.00226	0.25%
Mo 202.031†	10053.0	0.8917	mg/L	0.00804	0.8917	mg/L	0.00804	0.90%
Na 589.592†	279316.9	44.93	mg/L	0.137	44.93	mg/L	0.137	0.31%
Na 330.237†	1089.7	46.54	mg/L	0.165	46.54	mg/L	0.165	0.36%
Ni 231.604†	1662.2	0.9012	mg/L	0.00387	0.9012	mg/L	0.00387	0.43%
Pb 220.353†	14554.2	1.829	mg/L	0.0098	1.829	mg/L	0.0098	0.53%
Sb 206.836†	3944.1	1.936	mg/L	0.0141	1.936	mg/L	0.0141	0.73%
Se 196.026†	1887.5	1.802	mg/L	0.0177	1.802	mg/L	0.0177	0.98%
Si 288.158†	2534.8	1.947	mg/L	0.0044	1.947	mg/L	0.0044	0.22%
Sn 189.927†	3201.5	0.8396	mg/L	0.00723	0.8396	mg/L	0.00723	0.86%
Sr 421.552†	452061.5	0.9090	mg/L	0.00122	0.9090	mg/L	0.00122	0.13%
Ti 334.903†	18132.4	0.9052	mg/L	0.00265	0.9052	mg/L	0.00265	0.29%
Tl 190.801†	3718.3	1.775	mg/L	0.0208	1.775	mg/L	0.0208	1.17%
V 292.402†	110196.6	0.9057	mg/L	0.00644	0.9057	mg/L	0.00644	0.71%
Zn 206.200†	2165.2	0.9152	mg/L	0.00267	0.9152	mg/L	0.00267	0.29%

Sequence No.: 67

Sample ID: CB

Dilution: 1X

Autosampler Location: 1

Date Collected: 8/11/2010 11:32:39 PM

Data Type: Original

Nebulizer Parameters: CB

Analyte	Back Pressure	Flow
All	180.0 kPa	0.55 L/min

Mean Data: CB

Analyte	Mean Corrected		Calib. Conc. Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
ScA 357.253	2319887.2	111.1 %		1.03			0.92%
ScR 361.383	263109.2	111.1 %		0.21			0.19%
Ag 328.068†	-5.0	-0.00003 mg/L		0.000039	-0.00003 mg/L	0.000039	152.24%
Al 308.215†	26.5	0.01922 mg/L		0.006931	0.01922 mg/L	0.006931	36.05%
As 188.979†	-2.7	-0.00169 mg/L		0.000469	-0.00169 mg/L	0.000469	27.70%
B 249.677†	1.8	0.00083 mg/L		0.000076	0.00083 mg/L	0.000076	9.15%
Ba 233.527†	3.5	0.00044 mg/L		0.000506	0.00044 mg/L	0.000506	115.12%
Be 313.042†	-22.9	-0.00008 mg/L		0.000059	-0.00008 mg/L	0.000059	76.77%
Ca 317.933†	19.9	0.00210 mg/L		0.000427	0.00210 mg/L	0.000427	20.36%
Cd 228.802†	-2.3	-0.00004 mg/L		0.000077	-0.00004 mg/L	0.000077	205.92%
Co 228.616†	9.9	0.00019 mg/L		0.000051	0.00019 mg/L	0.000051	26.87%
Cr 267.716†	4.9	0.00121 mg/L		0.000837	0.00121 mg/L	0.000837	69.30%
Cu 324.752†	1162.9	0.00536 mg/L		0.000286	0.00536 mg/L	0.000286	5.33%
Fe 273.955†	5.0	0.00418 mg/L		0.001482	0.00418 mg/L	0.001482	35.45%
K 766.490†	-285.5	-0.1066 mg/L		0.01539	-0.1066 mg/L	0.01539	14.43%
Mg 279.077†	-2.6	-0.00233 mg/L		0.006462	-0.00233 mg/L	0.006462	277.07%
Mn 257.610†	29.7	0.00075 mg/L		0.000048	0.00075 mg/L	0.000048	6.47%
Mo 202.031†	-3.4	-0.00030 mg/L		0.000197	-0.00030 mg/L	0.000197	64.82%
Na 589.592†	9.5	0.00152 mg/L		0.007408	0.00152 mg/L	0.007408	486.51%
Na 330.237†	23.9	1.023 mg/L		0.0826	1.023 mg/L	0.0826	8.08%
Ni 231.604†	6.5	0.00354 mg/L		0.003304	0.00354 mg/L	0.003304	93.44%
Pb 220.353†	7.3	0.00091 mg/L		0.001684	0.00091 mg/L	0.001684	184.30%
Sb 206.836†	-17.1	-0.00844 mg/L		0.000810	-0.00844 mg/L	0.000810	9.60%
Se 196.026†	5.7	0.00541 mg/L		0.005521	0.00541 mg/L	0.005521	101.97%
Si 288.158†	1.3	0.00099 mg/L		0.001761	0.00099 mg/L	0.001761	177.49%
Sn 189.927†	0.9	0.00025 mg/L		0.000344	0.00025 mg/L	0.000344	140.38%
Sr 421.552†	-43.4	-0.00009 mg/L		0.000050	-0.00009 mg/L	0.000050	57.06%
Ti 334.903†	-30.1	-0.00151 mg/L		0.001129	-0.00151 mg/L	0.001129	75.03%
Tl 190.801†	-2.4	-0.00115 mg/L		0.001701	-0.00115 mg/L	0.001701	147.79%
V 292.402†	-76.8	-0.00062 mg/L		0.000252	-0.00062 mg/L	0.000252	40.89%
Zn 206.200†	8.3	0.00352 mg/L		0.000740	0.00352 mg/L	0.000740	21.04%

**General Chemistry Raw Data
Analyst Notes and Raw Data**

ARI Job ID: RG78

W
8-6-10

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

SOLIDS (dry at 104 (12-24 hr) then combust at 550 (30 min))
DATE: 8/3/10 (B)
ANALYST: KE 17:28 (A)
Analytical Balance: 1123230597

Instrumentation
Drying Ovens: 12
Muffle Furnace: N / A

Batch drying time
 record times as mm/dd/yy hh:mm
 8/3/2010 17:28 KE
 8/4/2010 10:14 KE
 elapsed hrs = 16.8

TS (%) calculated as:
 Final dry wt (g) = (Dry Wt - Tare Wt)
 TS = (Final Dry Wt)/(grams Sample-Tare)
 if ash wt > dry wt, "Chk for Err"
 if dry wt-ash wt < 0.001 g, "< (1/dry wt) *1,000,000"

SAMPLE ID	DISH #	Cal Weight ID	CV-02	CV-02	CV-02	CV-02	DRY WT 104C (grams)		dry Wt (g)	TS (%)	ASH WT 550C (grams)		Ash Wt (g)	TVS (mg/kg) (%)
							TARE WT (grams)	1			2	1		
Blank							1.1526	1.1524	0.00					
RG78 A9			8/3/10 16:28 KE	8/3/10 15:42 KE	8/4/10 10:38 KE	10.0000	1.1360	5.7112	4.58	84.5%				
RG78 C9			10.0000	10.0000	10.0000	Cal:OKI	1.1350	5.8964	4.76	95.2%				
RG78 J9			Cal:OKI	Cal:OKI	Cal:OKI	10.0000	1.0999	5.5068	4.41	87.1%				
RG78 J9 dup							1.1402	5.5756	4.44	88.0%				

RPD = 1.04%
 RPD = 4.44
 RPD = 5.786

SAMPLE ID	DISH #	Cal Weight ID	CV-02	CV-02	CV-02	CV-02	DRY WT 104C (grams)		dry Wt (g)	TS (%)	ASH WT 550C (grams)		Ash Wt (g)	TVS (mg/kg) (%)
							TARE WT (grams)	1			2	1		
RG78 K9							1.1132	5.9154	4.80	95.1%				
RG79 G9							1.1244	5.5354	4.41	87.1%				
RG79 H9							1.0894	5.4739	4.38	82.4%				
RG79 O9							1.0584	6.0689	5.01	85.5%				
RG79 P9							1.0962	5.5806	4.48	84.2%				
RG79 Q9							1.1075	5.9864	4.88	83.2%				
RG85 A2							1.1431	2.4724	1.33	25.1%				
RG85 A2 dup							1.1263	2.3926	1.27	24.6%				

RPD = 1.83%
 RPD = 1.32
 RPD = 2.4455

SAMPLE ID	DISH #	Cal Weight ID	CV-02	CV-02	CV-02	CV-02	DRY WT 104C (grams)		dry Wt (g)	TS (%)	ASH WT 550C (grams)		Ash Wt (g)	TVS (mg/kg) (%)
							TARE WT (grams)	1			2	1		
RG85 B2							1.1221	3.1484	2.03	35.0%				
RG94 A8							1.1181	5.7070	4.59	84.6%				
RG94 B8							1.1143	5.6330	4.52	82.4%				

RPD = 1.76%
 RPD = 2.03
 RPD = 4.59

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET

SOLIDS (dry at 104 (12-24 hr) then combust at 550 (30 min)) **DATE:** 8/3/10 (B) **ANALYST:** KE 17:28 (A)

Instrumentation **Drying Ovens:** 12 **Analytical Balance:** 1123230597

Muffle Furnace: N / A

Batch drying time
 record times as mm/dd/yy hh:mm
 8/3/2010 17:28 KE
 8/4/2010 10:14 KE
 elapsed hrs = 16.8

TS (%) calculated as:
 Final dry wt (g) = (Dry Wt - Tare Wt)
 TS = (Final Dry Wt)/(grams Sample-Tare)

TVS (mg/kg dry wt) calculated as:
 Final ash wt (g) = (min ash wt - tare wt)
 TVS (mg/kg) = [(Dry wt-Ash wt)/(dry weight)] *1,000,000
 if ash wt > dry wt, "Chk for Err"
 if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000"

SAMPLE ID	DISH #	Cal Weight ID	CV-02	CV-02	CV-02	CV-02	CV-02	DRY WT 104C (grams)		TS (%)	ASH WT 550C (grams)		TVS (mg/kg) (%)
								TARE WT (grams)	DRY WT (g)		1	2	
RG94 C8		10.0000	8/3/10 16:28 KE	10.0000	10.0000	8/3/10 15:42 KE	10.0000	5.4849	4.37	85.5%			
RG94 D8		10.0000	Cal/OK!	10.0000	10.0000	Cal/OK!	10.0000	5.5550	4.43	85.8%			
RG94 E8		10.0000	Cal/OK!	10.0000	10.0000	Cal/OK!	10.0000	5.9972	4.89	86.9%			
RG94 H20		10.0000	Cal/OK!	10.0000	10.0000	Cal/OK!	10.0000	5.8644	4.76	83.2%			
RG94 H20 dup		10.0000	Cal/OK!	10.0000	10.0000	Cal/OK!	10.0000	5.9862	4.85	83.7%			

RPD = 0.64% RPD = NA
 4.50 83.6%
 RSD = 0.35% RSD = NA
 4.02 81.5%
 3.98 76.1%

RG94 H20 trp	6.4831	1.1024	5.6030										
RG94 I 8	6.0664	1.1359	5.1530										
RG94 J 8	6.2985	1.0752	5.0522										

RG78 : 01735

TOTAL / VOLATILE SOLIDS (TS/TVS) BENCHSHEET

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Page 1 of 2

Analyst: <u>MD</u>		Date: <u>8-3-10</u>	Oven ID: <u>12</u>	Balance ID: <u>1123230597</u>	
Time in Oven: <u>17:23</u>		Time Out of Oven: <u>12:14</u>	Elapsed Time (> 12 Hrs): <u>16.8</u>		
TS (%) calculated as: Final Dry Weight (g) = (Dry Weight - Tare Weight) TS = (Final Dry Weight) / (Grams Sample - Tare Weight)		TVS (mg/kg dry weight) calculated as: Final Ash Weight (g) = (Minimum Ash Weight - Tare Weight) TVS (mg/kg) = ((Dry Weight - Ash Weight) / (Dry Weight)) * 1,000,000 If Ash Weight > Dry Weight then "Check for Error" If Dry Weight - Ash Weight < 0.001 < (1/Dry Weight) * 1,000,000			
Cal Weight ID	CV-02	CV-02	CV-02	CV-02	
Date & Time: <u>8/3/10 16:38</u>	<u>8370 15:42</u>	<u>8370 16:36</u>			
Cal Weight (10.0000): <u>10.22000 (MD)</u>	<u>10.22000 (MD)</u>	<u>10.22000 (MD)</u>			
Sample ID	Dish #	Sample	Tare	Dry Weight 104°C	
				Dry Weight 550°C	
BLANK	1			grams	1
RG78 A1	2	1.1526	1.1524		2
RG78 A2	3	1.1360	5.7112		3
RG78 A3	4	1.1350	5.8964		
RG78 A4	5	1.0999	5.5068		
RG78 A5	6	1.1402	5.5756		
RG78 A6	7	1.1866	5.5786		
RG78 A7	8	1.1137	5.9154		
RG78 A8	9	1.1244	5.5354		
RG78 A9	10	1.0894	5.4739		
RG78 A10	11	1.0584	6.0689		
RG78 A11	12	1.0962	5.5806		
RG78 A12	13	1.1075	5.9864		
RG78 A13	14	1.1431	2.4724		
RG78 A14	15	1.1263	2.3926		
RG78 A15	16	1.1256	2.4455		
RG78 A16	17	1.1221	3.1484		
RG78 A17	18	1.1181	5.7070		
RG78 A18	19	1.1143	5.6330		
RG78 A19	20	1.1123	5.4849		
RG78 A20	21	1.1260	5.5550		
RG78 A21	22	1.1076	5.9972		
RG78 A22	23	1.1031	5.8644		

Revision 002
12/28/09

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② 6.2659 (MD) 8-3-10

6053F



Analytical Resources, Incorporated
Analytical Chemists and Consultants

08-3-10

TOTAL / VOLATILE SOLIDS (TS/TVS) BENCHSHEET

Page 2 of 2

Analyst: <u>AD</u>		Date: <u>8-3-10</u>	Oven ID: <u>12</u>	Balance ID: <u>1123230597</u>
Time in Oven: <u>17.25</u>		Time Out of Oven: <u>12:14</u>		
<p>Dry at 104 °C (12-24 hrs) then combust at 550 °C for 30 min. Record Weights to 4 places</p>		<p>TVS (mg/kg dry weight) calculated as: Final Ash Weight (g) = (Minimum Ash Weight - Tare Weight) TVS (mg/kg) = [(Dry Weight - Ash Weight) / (Dry Weight) * 1,000,000 If Ash Weight > Dry Weight then "Check for Error" If Dry Weight - Ash Weight < 0.001 < (1/Dry Weight) * 1,000,000</p>		
Cal Weight ID	CV-02	CV-02	CV-02	CV-02
Date & Time:	<u>8-2-10 16:27</u>	<u>8-2-10 15:42</u>	<u>8-2-10 10:24</u>	
Cal Weight (10.0000):	<u>10.0220</u>	<u>10.0200</u>	<u>10.0200</u>	
Sample ID	Sample	Tare	Dry Weight 104°C	Ash Weight 550°C
			1	2
			3	3
<u>2594BLANK</u>	<u>6.9814</u>	<u>1.1314</u>	<u>5.9862</u>	
<u>4012</u>	<u>6.4831</u>	<u>1.1024</u>	<u>5.6058</u>	<u>5.6030</u>
<u>45</u>	<u>6.8664</u>	<u>1.1359</u>	<u>5.1530</u>	
<u>46</u>	<u>6.2285</u>	<u>1.0752</u>	<u>5.0999</u>	<u>5.0522</u>

8-3-10
(W)

RG78 : 01737

W
8-5-10

TOC Solids Prep Log						DATE:	8/3/2010
acid purging to remove IC and drying at 70°C for TOC analysis General notes regarding prep method and samples (identify the acid used)						ANALYST:	KE 17:54
						<i>make no entry to shaded cells, they are calculated</i>	
Sample ID		IC Test + / -	Gravimetric Data (grams)			% Solids	Sample description & notes (homogeneity and exclusions)
ARI #	Client		Tare Wt.	Wet wt.	70°C dry wt		
Blank			13.1109		13.1108	-0.1 mg	
RG78 A9		-	13.2455	18.6691	17.9413	86.58%	
RG78 C9		-	13.1876	18.1132	18.0303	98.32%	
RG78 J9		-	13.2777	18.3712	18.1538	95.73%	
RG78 J9 DUP		-	13.1916	18.1631	17.9212	95.13%	
RG78 J9 TRIP		-	13.1317	18.1559	17.8638	94.19%	
RG78 K9		-	13.0920	18.6683	18.5407	97.71%	
RG79 G9		-	13.1888	18.4005	17.9773	91.88%	
RG79 H9		-	13.2063	18.4675	17.7708	86.76%	
RH79 O9		-	13.2377	18.4247	17.8194	88.33%	
RG79 P9		-	13.2839	18.2859	17.6659	87.60%	
RG79 Q9		-	13.1550	18.8680	18.1901	88.13%	
RG85 A2		+-	13.1024	18.0707	14.6417	30.98%	
RG85 A2 DUP		+-	13.2481	18.0808	14.7059	30.17%	
RG85 A2 TRIP		+-	13.2432	18.4061	14.8372	30.87%	
RG85 B2		+-	13.3016	18.5076	15.3838	40.00%	
RG94 A8		-	13.1438	18.2742	17.6506	87.85%	
RG94 B8		-	13.2481	18.8851	18.0143	84.55%	
RG94 C7		-	13.1111	18.7059	18.0453	88.19%	
RG94 D8		-	13.1426	18.8222	18.1309	87.83%	
RG94 E8		-	13.2496	18.8319	18.3632	91.60%	
RG94 H8		-	13.2717	18.7901	17.9970	85.63%	
RG94 H8 DUP		-	13.1499	18.9721	18.1171	85.31%	
RG94 H8 TRIP		-	13.1472	18.5836	17.8248	86.04%	
RG94 I 8		-	13.1807	19.1775	18.1284	82.51%	
RG94 J 8			13.2580	18.4594	17.5026	81.60%	



TOC Solids Preparation Log

Acid purge to remove IC and drying 70 °C for TOC analysis
Add general notes regarding samples and preparation and identify the acid used

8-3-10

Analyst

W

Date

8-3-10

17:54

Sample Identification		IC Test	Gravimetric Data			% Solids	Sample description & notes
ARI #	Client ID		Tare	Wet	70 °C		
Blank			13.1109	Ø	13.1109		
R678	A9	-	13.2455	18.6691	17.9413		Fine Sand
	C9	-	13.1876	18.1132	18.0303		wet ↓ Gray clay 15 to fine sand
	J22	-	13.2777	18.3712	18.1538		
	op J22	-	13.1916	18.1631	17.9212		
	4 J22	-	13.1317	18.1559	17.8638		
	K9	-	13.0920	18.6683	18.5407		
R679	G9	-	13.1888	18.4005	17.9773		
	H9	-	13.2063	18.4675	17.7708		
	O9	-	13.2377	18.4247	17.8194		
	P9	-	13.2839	18.2859	17.6659		
	Q9	-	13.1550	18.8680	18.1901		
R685	A2	+ -	13.1024	18.0707	17.6524	14.6417	Very wet silt
	op A2	+ -	13.2481	18.0808	14.7059		
	4 A2	+ -	13.2432	18.4061	14.8372		
	B2	+ -	13.3016	18.5076	15.3838		
R694	A6	-	13.1438	18.2742	18.5836	17.6506	Sand
	B6	-	13.2481	18.8851	18.0143		
	C7	-	13.1111	18.7059	18.0453		Clayish -
	D8	-	13.1426	18.8222	18.1309		
	E9	-	13.2496	18.8379	18.3632		
	H20	-	13.2717	18.7901	18.0179	97.0	
	op H20	-	13.1499	18.9721	18.1171		
	4 H20	-	13.1472	18.5836	18.5836	17.8248	
	I8	-	13.1807	19.1775	18.1284		wet sandy silt
	J8	-	13.2580	18.4594	17.5026		wet sand
			8-3-10				
			W				

18.5836 8-3-10

TOC, Solids Data Analysis

DATE: 8/12/2010

Instrument: Apollo 2

ANALYST: CR 9:14

Mode: NPOC Inlet: Boat

Spike Std = 2,500 ppm C

Calibration Data

Cal Curve ID: CAL 08112010

Conc: 5,000 ppm

Calibration Curve Standard: ARI # 00103 - 1

Curve Date: 08/11/10

CalFact: 2.401E+05 intercept: -709220

r2: 0.99466

Curve Range (µgC): 8 to 100

Verification Standard

Source: ERA# 0513 - 10 - 06

Conc: 5,000 ppm

dilution: 10 mL to 50

1,000 ppm

Standard Reference Material

Source: NIST 8704

Conc: 33,510 ppm

Silica Blanks

Replicate determinations					Mean	RSD	condition
62.9	56.0	40.2			53.0	22.0%	OK

Sample Data

"C corr" (with dilution) = ("C obs" - (Mean silica Blank * %Silica)) * Dilution Factor

Sample ID	Dilution Data				Spike (µL Std)	Combustion Data			comments
	Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor		Burn wt. (mg)	C obs (ppm C)	C corr (ppm C)	
ICV			-	1.00		40.0	1028	1,028	102.80%
ICV				1.00		40.0	980	980	98.00%
Blank				1.00		40.0	95	95	Blank OK
Blank				1.00		40.0	82.65	83	Blank OK
NIST 8704				1.00		2.5	34731	34,731	103.64%
RG78 A9				1.00		3.7	782	782	Range OK!
RG78 C9				1.00		4.1	940	940	Range OK!
RG78 J22				1.00		2.3	16694	16,694	Range OK!
RG78 J22 dup				1.00		2.5	23274	23,274	RPD=32.9%
RG78 J22 trp				1.00		2.4	20035	20,035	RSD=16.4%
RG78 J22 ms				1.00	10	1.5	32404	32,404	Range OK!
Spike = 0.025 mg C to 1.5 mg samp= 16,667 ppm 94%									
RG78 K9				1.00		2.8	849	849	Range OK!
RG94 A8				1.00		3.5	1028	1,028	Range OK!
RG94 B8				1.00		5.8	415	415	Range OK!
CCV				1.00		40.0	1034	1,034	103.40%
Blank				1.00		40.0	89.34	89	Blank OK

Sample Data

"C corr" (with dilution) = ("C obs" - (Mean silica Blank * %Silica)) * Dilution Factor

Sample ID	Dilution Data				Spike (μ L Std)	Combustion Data			comments
	Sample wt. (mg)	Final wt. (mg)	Silica (%)	Dilution Factor		Burn wt. (mg)	C obs (ppm C)	C corr (ppm C)	
RG94 C8				1.00		4.5	872	872	Range OK!
RG94 D8				1.00		4.0	1287	1,287	Range OK!
RG94 E8				1.00		4.0	350	350	Range OK!
RG94 H20				1.00		5.4	1464	1,464	Range OK!
RG94 H20 dup				1.00		5.4	1053	1,053	RPD=32.7%
RG94 H20 trp				1.00		5.5	1942	1,942	RSD=29.9%
RG94 H20 ms				1.00	10	5.5	6417	6,417	Range OK!
Spike = 0.025 mg C to 5.5 mg samp= 4,545 ppm 109%									
RG94 I8				1.00		4.5	1140	1,140	Range OK!
RG94 J8				1.00		5.8	581	581	Range OK!
CCV				1.00		40.0	1076	1,076	107.60%
Blank				1.00		40.0	78.78	79	Blank OK
RG85 A2				1.00		1.0	85269	85,269	Range OK!
SB 1				1.00		40.0	62.85	63	Range OK!
SB 2				1.00		42.3	56	56	Range OK!
SB 3				1.00		43.5	40.16	40	Range OK!
RG85 A1	10.9	102.5	89.37%	9.40		2.1	12600	118,041	Range OK!
RG85 A1 dup	11.0	109.3	89.94%	9.94		2.1	11113	109,949	RPD=7.1%
RG85 A1 trp	10.7	107.6	90.06%	10.06		2.2	8256	82,543	RSD=18%
RG85 A1 ms	10.9	102.5	89.37%	9.40	10	2.0	24278	227,857	Range OK!
Spike = 0.025 mg C to 0.2 mg samp= 117,546 ppm 93%									
RG85 B2	10.8	107.1	89.92%	9.92		2.9	8767	86,467	Range OK!
NIST 8704				1.00		2.3	32985	32,985	98.43%
CCV				1.00		40.0	1008	1,008	100.80%
Blank				1.00		40.0	82.41	82	Blank OK



1/2 on

8-12-10

**TOC Solids Sample Run Log
Apollo 9000**

Set-Up Parameters MODE: <i>NPOC BOAT</i>		INLET: <i>BOAT SAMPLE</i>
Standards:	Source	Conc (ppm)
Calibration:	<i>ARD 00105-11</i>	<i>5000</i>
Verification:	<i>EDA 1514-10-06</i>	<i>5000 NPOC POCUS</i>
SRM:	<i>NBS 8904</i>	<i>33570</i>

Sample ID	Dilution Data (mg)		Burn Wt mg	Matrix Spike Data		Comments
	Sample	+ Silica Gel		mg/L	µL added	
<i>1CV</i>			<i>4.0</i>			<i>Low Silica Plus</i>
<i>1CV</i>			<i>4.0</i>			
<i>1CB/1CB</i>			<i>4.0/4.0</i>			
<i>NBS 8904</i>			<i>2.5</i>			
<i>RG98 A9</i>			<i>3.7</i>			
<i>C9</i>			<i>4.1</i>			
<i>J22</i>			<i>2.3</i>			
<i>J22 DW</i>			<i>2.5</i>			
<i>J22 PP</i>			<i>2.4</i>			
<i>J22 MS</i>			<i>1.5</i>	<i>2500</i>	<i>10</i>	
<i>K9</i>			<i>2.8</i>			
<i>RG94 A8</i>			<i>3.5</i>			
<i>B8</i>			<i>5.8</i>			
<i>CCV</i>			<i>4.0</i>			
<i>CCB</i>			<i>4.0</i>			
<i>RG94 C8</i>			<i>4.5</i>			
<i>D8</i>			<i>4.0</i>			
<i>E8</i>			<i>4.0</i>			
<i>H2O</i>			<i>5.4</i>			
<i>H2O DW</i>			<i>5.4</i>			
<i>H2O PP</i>			<i>5.5</i>			
<i>H2O MS</i>			<i>5.5</i>	<i>2500</i>	<i>10</i>	
<i>J8</i>			<i>4.5</i>			
<i>J8</i>			<i>3.8</i>			
<i>CCV</i>			<i>4.0</i>			
<i>CCB</i>			<i>4.0</i>			
<i>RG85 A2</i>			<i>1.0</i>			
<i>SB1</i>			<i>40.0</i>			
<i>SB2</i>			<i>42.3</i>			
<i>SB3</i>			<i>43.5</i>			
<i>RG85 A2</i>	<i>10-9</i>	<i>102-5</i>	<i>2.1</i>			
<i>A2 DW</i>	<i>11-0</i>	<i>109.3</i>	<i>2.1</i>			



2/2
or
8-12-10

**TOC Solids Sample Run Log
Apollo 9000**

Set-Up Parameters		MODE:	NPOC BOAT		INLET:	Boat Sample	
Standards:	APC	Source			Conc (ppm)		
Calibration:	APC 00705-11				5000		
Verification:	GVA 1513-10-06		5000 to 10000 FULCUS				
SRM:	NBS-8704		33520				
Sample Sequence:							
Sample ID	Dilution Data (mg)		Burn Wt mg	Matrix Spike Data		Comments	
	Sample	+ Silica Gel		mg/L	µL added		
RG75 ATMP	10.7	102.6	2.2				
ATMS	10.9	102.5	2.0				
B2	10.8	102.1	2.9				
NBS 8704			2.3				
CCV			40				
CCB			40				
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p>or 8-12-10</p> </div>							

Sample ID: CVS BOAT 1000 Mode: TOC
 Method: Boat Sampler Filename: 08120906
 Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 09:10
 Operator ID: CARLOS Sample Type: Cal. Verification

OK
9-12-10
Low
ML
PL

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1028.3962	41.1359	9169528	19.006	20.002	181

Sample ID: CVS BOAT 1000 Mode: TOC
 Method: Boat Sampler Filename: 08120952
 Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 09:55
 Operator ID: CARLOS Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	980.7195	39.2288	8711546	21.119	22.113	123

Sample ID: ICB BOAT Mode: TOC
 Method: Boat Sampler Filename: 08121002
 Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 10:04
 Operator ID: CARLOS Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	94.7239	3.7890	200696	20.915	21.914	66

Sample ID: ICB BOAT Mode: TOC
 Method: Boat Sampler Filename: 08121016
 Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 10:18
 Operator ID: CARLOS Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	82.6548	3.3062	84760	20.824	21.822	54

Sample ID: NBS 8704 Mode: TOC
 Method: Boat Sampler Filename: 08121026
 Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 10:31
 Operator ID: CARLOS Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	34731.0391	86.8276	20142372	20.728	21.728	206

Sample ID: RG78 A9 Mode: TOC
 Method: Boat Sampler Filename: 08121152
 Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 11:55
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	782.2000	2.8941	695026	21.121	22.121	95

Sample ID: RG78 C9 Mode: TOC
 Method: Boat Sampler Filename: 08121158
 Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 12:01
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	939.9782	3.8539	925514	21.093	22.087	94

Sample ID: RG78 J22 Mode: TOC
Method: Boat Sampler Filename: 08121205
Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 12:09
Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	16694.1602	38.3966	9220911	21.003	21.997	139

Sample ID: RG78 J22 DUP Mode: TOC
Method: Boat Sampler Filename: 08121212
Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 12:16
Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	23274.9590	58.1874	13973667	21.066	22.064	149

Sample ID: RG78 J22 TRP Mode: TOC
Method: Boat Sampler Filename: 08121218
Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 12:22
Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	20035.1797	48.0844	11547445	21.037	22.033	135

Sample ID: RG78 J22 MS Mode: TOC
Method: Boat Sampler Filename: 08121225
Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 12:29
Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	32404.2129	48.6063	11672776	20.664	21.663	137

Sample ID: RG78 K9 Mode: TOC
Method: Boat Sampler Filename: 08121236
Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 12:38
Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	849.7103	2.3792	571361	20.293	21.292	77

Sample ID: RG94 A8 Mode: TOC
Method: Boat Sampler Filename: 08121241
Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 12:43
Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1028.8062	3.6008	864735	20.144	21.144	93

Sample ID: RG94 B8 Mode: TOC
Method: Boat Sampler Filename: 08121246
Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 12:48
Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	414.6611	2.4050	577568	20.154	21.154	92

Sample ID: CVS BOAT 1000 Mode: TOC
 Method: Boat Sampler Filename: 08121252
 Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 12:55
 Operator ID: CARLOS Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1034.2053	41.3682	9225330	20.255	21.254	138

Sample ID: ICB BOAT Mode: TOC
 Method: Boat Sampler Filename: 08121257
 Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 12:59
 Operator ID: CARLOS Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	89.3368	3.5735	148947	20.189	21.179	61

Sample ID: RG94 C8 Mode: TOC
 Method: Boat Sampler Filename: 08121302
 Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 13:05
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	872.2397	3.9251	942605	20.086	21.082	107

Sample ID: RG94 D8 Mode: TOC
 Method: Boat Sampler Filename: 08121307
 Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 13:10
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1286.6051	5.1464	1235910	19.950	20.948	144

Sample ID: RG94 E8 Mode: TOC
 Method: Boat Sampler Filename: 08121313
 Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 13:15
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	350.5534	1.4022	336741	20.144	21.143	77

Sample ID: RG94 H20 Mode: TOC
 Method: Boat Sampler Filename: 08121318
 Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 13:21
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1463.7434	7.9042	1898192	20.229	21.228	128

Sample ID: RG94 H20 DUP Mode: TOC
 Method: Boat Sampler Filename: 08121324
 Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 13:27
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1053.3115	5.6879	1365941	20.341	21.341	115

Sample ID: RG94 H2O TRP Mode: TOC
 Method: Boat Sampler Filename: 08121330
 Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 13:33
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1942.5012	10.6838	2565697	20.478	21.477	121

Sample ID: RG94 H2O MS Mode: TOC
 Method: Boat Sampler Filename: 08121342
 Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 13:45
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6416.5889	35.2912	8475168	20.459	21.458	164

Sample ID: RG94 I8 Mode: TOC
 Method: Boat Sampler Filename: 08121411
 Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 14:16
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1139.8992	5.1295	1231857	19.827	20.827	122

Sample ID: RG94 J8 Mode: TOC
 Method: Boat Sampler Filename: 08121419
 Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 14:23
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	580.9600	3.3696	809200	19.875	20.875	118

Sample ID: CVS BOAT 1000 Mode: TOC
 Method: Boat Sampler Filename: 08121425
 Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 14:28
 Operator ID: CARLOS Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1076.3853	43.0554	9630509	20.116	21.113	131

Sample ID: ICB BOAT Mode: TOC
 Method: Boat Sampler Filename: 08121432
 Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 14:33
 Operator ID: CARLOS Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	78.7767	3.1511	47506	19.826	20.820	46

Sample ID: RG85 A1 Mode: TOC
 Method: Boat Sampler Filename: 08121438
 Cal. Curve: BOAT CAL 08112010 Timestamp: 2010/08/12 14:42
 Operator ID: CARLOS Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	85269.1875	85.2692	20477340	19.503	20.500	188

Sample ID: SB 1 Mode: TOC

Method: Boat Sampler
 Cal. Curve: BOAT CAL 08112010
 Operator ID: CARLOS

Filename: 08121452
 Timestamp: 2010/08/12 14:54
 Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	62.8533	2.5141	603768	19.505	20.500	81

Sample ID: SB 2
 Method: Boat Sampler
 Cal. Curve: BOAT CAL 08112010
 Operator ID: CARLOS

Mode: TOC
 Filename: 08121503
 Timestamp: 2010/08/12 15:07
 Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	56.0011	2.3688	568876	19.778	20.769	79

Sample ID: SB 3
 Method: Boat Sampler
 Cal. Curve: BOAT CAL 08112010
 Operator ID: CARLOS

Mode: TOC
 Filename: 08121513
 Timestamp: 2010/08/12 15:16
 Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	40.1570	1.8191	436859	19.849	20.843	73

Sample ID: RG85 A2
 Method: Boat Sampler
 Cal. Curve: BOAT CAL 08112010
 Operator ID: CARLOS

Mode: TOC
 Filename: 08121525
 Timestamp: 2010/08/12 15:29
 Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	12599.6465	26.4593	6354174	19.804	20.804	118

Sample ID: RG85 A2 DUP
 Method: Boat Sampler
 Cal. Curve: BOAT CAL 08112010
 Operator ID: CARLOS

Mode: TOC
 Filename: 08121532
 Timestamp: 2010/08/12 15:35
 Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	11113.3076	23.3379	5604593	19.680	20.677	114

Sample ID: RG85 A2 TRP
 Method: Boat Sampler
 Cal. Curve: BOAT CAL 08112010
 Operator ID: CARLOS

Mode: TOC
 Filename: 08121544
 Timestamp: 2010/08/12 15:47
 Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8256.0518	18.1633	4361908	19.370	20.369	105

Sample ID: RG85 A2 MS
 Method: Boat Sampler
 Cal. Curve: BOAT CAL 08112010
 Operator ID: CARLOS

Mode: TOC
 Filename: 08121549
 Timestamp: 2010/08/12 15:52
 Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	24277.5820	48.5552	11660491	19.557	20.548	134

Sample ID: RG85 B2
 Method: Boat Sampler

Mode: TOC
 Filename: 08121555

Cal. Curve: BOAT CAL 08112010
Operator ID: CARLOS

Timestamp: 2010/08/12 15:58
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8767.1660	25.4248	6105745	19.242	20.237	113

Sample ID: NBS 8704
Method: Boat Sampler
Cal. Curve: BOAT CAL 08112010
Operator ID: CARLOS

Mode: TOC
Filename: 08121602
Timestamp: 2010/08/12 16:06
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	32984.9336	75.8653	17509794	19.108	20.106	231

Sample ID: CVS BOAT 1000
Method: Boat Sampler
Cal. Curve: BOAT CAL 08112010
Operator ID: CARLOS

Mode: TOC
Filename: 08121610
Timestamp: 2010/08/12 16:13
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1007.5974	40.3039	8969735	19.364	20.362	132

Sample ID: ICB BOAT
Method: Boat Sampler
Cal. Curve: BOAT CAL 08112010
Operator ID: CARLOS

Mode: TOC
Filename: 08121623
Timestamp: 2010/08/12 16:25
Sample Type: Cal. Verification

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	82.4119	3.2965	82427	19.150	20.149	56



ARI Job No.: RG78 J22 / RG94 1420

Client ID: _____

Parameter: TOC SOIL

Client Project: _____

List problems, concerns, corrective actions and any other pertinent information

BOTH THE SAMPLES ON DUP AND TRIP RESULTS WERE ~~AND~~ OUT
OF CONTROL LIMITS CAUSE IS VARIANCE IN THE SAMPLE.
ALL OTHER QC'S ARE WITHIN CONTROL LIMITS.

Analyst Initials:

CR

Date:

8-12-10

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Client: Floyd/Snyder

Project: POS-LLA POS-LLA (Lora Lake Apartments)

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Signature

August-13-2010
Date

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Client: Floyd/Snider

Project: POS-LLA POS-LLA (Lora Lake Apartments)

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BC
Signature

August-13-2010
Date



Analytical Resources, Incorporated
Analytical Chemists and Consultants

September 8, 2010

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

RE: Client Project: Lora Lake RI, POS-LLA
ARI Job No: RG94

Dear Ms. Massingale:

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

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

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

Sincerely,

ANALYTICAL RESOURCES, INC.

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

Enclosures

cc: eFile RG94

SD/co✓

Chain of Custody Documentation

ARI Job ID: RG94

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: _____ Turn-around Requested: Standard

ARI Client Company: Flayell Snider Phone: 206-292-2078

Client Contact: Megan McCullough / Jessi Massingale

Client Project Name: POS-LLA (Lova Lova Apartments)

Client Project #: POS-LLA

Samplers: M. McCullough, K. Anderson, T. Stevens

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



Page: 1 of 3

Date: 8/2/2010 Ice Present? yes

No. of Coolers: 2 Cooler Temps: 7.1, 1.6

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested					Notes/Comments									
					PCP (8041)	NW-TPH-MN	NW-TPH-GP + BTEX (8021)	AS + PB (6010)	VOCs - PAHs (8270)		VOCs - PAHs (8260)	TOC (9103)	Dioxin (613)	RECIPIENT (9103)					
MWH-0-0.5-080210	8/2/10	0835	S	1															
MWH-1.5-2-080210		0842		1															
MWH-2-4-080210		0855		1															
MWH-15-16.5-080210		1000		9	X	X	X	X	X										
MWH-22.5-24-080210		1015		9	X	X	X	X	X										
MW13-0-0.5-080210	8/2/10	1140	S	1															
MW13-1.5-2-080210		1150		1															
MW13-2-4-080210		1155		1															
MW13-4-6-080210		1200		1															
MW13-10-11.5-080210		1225		9	X	X	X	X	X										
Comments/Special Instructions	See project - specific VOC 1154				Relinquished by: <u>[Signature]</u> (Signature) Printed Name: <u>Jennifer Millsap</u> Company: <u>ARI</u>		Relinquished by: <u>[Signature]</u> (Signature) Printed Name: <u>Jennifer Millsap</u> Company: <u>ARI</u>		Received by: <u>[Signature]</u> (Signature) Printed Name: <u>Jennifer Millsap</u> Company: <u>ARI</u>		Received by: <u>[Signature]</u> (Signature) Printed Name: <u>Jennifer Millsap</u> Company: <u>ARI</u>		Date & Time: <u>8/2/10 17:25</u>		Date & Time: <u>8/2/10 1725</u>				

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

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

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: Turn-around Requested: Standard

ARI Client Company: Floyd Snider Phone: 206-292-2078

Client Contact: Megan McCullough/Jessi Massingale

Client Project Name: Loro Lake Apks RI

Client Project #: POS-LLA

Samples: K. Anderson, M. McCullough, T. Stevens

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



Page: 2 of 3

Date: 8/2/10 Ice Present? Yes

No. of Coolers: 2 Cooler Temps: 7.1, 1.6

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested						Notes/Comments			
					PATHS (6270)	PCD (8041)	NMTPH-DX	NMTPH-6x (6012)	As + Pb (6010)	VOCs - see Pgs. 134 (8260c)		TOC (P1MB)	DRKIN (613)	ARCHIVE (for DRKIN)
MW13-14-14.5-080210	8/2/10	1240	S	8	X	X	X	X	X	X	X			
MW13-18.5-14.5-080210	↓	1245	↓	8	X	X	X	X	X	X	X			
MW13-18.5-14.5-080210-D	↓	1250	↓	7	X	X	X	X	X	X	X			
MW12-0-0.5-080210	8/2/10	1405	S	1	X	X	X	X	X	X	X			
MW12-1.5-2-080210	↓	1408	↓	1	X	X	X	X	X	X	X			
MW12-2-4-090210	↓	1420	↓	1	X	X	X	X	X	X	X			
MW12-4-5.5-080210	↓	1422	↓	1	X	X	X	X	X	X	X			
MW12-5.5-7.5-080210	↓	1525	↓	8	X	X	X	X	X	X	X			
MW12-8-9.5-080210	↓	1455	↓	21	X	X	X	X	X	X	X			MS/MSD
MW12-10-11.5-080210	↓	1445	↓	8	X	X	X	X	X	X	X			
Comments/Special Instructions	See Project - Specific VOC 134				Received by: <u>[Signature]</u> Printed Name: <u>Jessie Massingale</u> Company: <u>ARI</u>				Relinquished by: <u>[Signature]</u> Printed Name: <u>Jennifer Millsap</u> Company: <u>ARI</u>				Received by: <u>[Signature]</u> Printed Name: <u>[Signature]</u> Company: <u>[Signature]</u>	
Date & Time: <u>8/2/10 17:25</u>				Date & Time: <u>8/2/10 17:25</u>				Date & Time: <u>8/2/10 17:25</u>				Date & Time: <u> </u>		

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

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

REG-100004



Cooler Receipt Form

ARI Client: Floyd Snider

Project Name: POS-LLA

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: RG94

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO
 Were custody papers included with the cooler? YES NO
 Were custody papers properly filled out (ink, signed, etc.) YES NO
 Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 7.1 1.6
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90877952

Cooler Accepted by: JM Date: 8/2/10 Time: 1730

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
 What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Fram Block Paper Other: _____
 Was sufficient ice used (if appropriate)? NA YES NO
 Were all bottles sealed in individual plastic bags? YES NO
 Did all bottles arrive in good condition (unbroken)? YES NO
 Were all bottle labels complete and legible? YES NO
 Did the number of containers listed on COC match with the number of containers received? YES NO
 Did all bottle labels and tags agree with custody papers? YES NO
 Were all bottles used correct for the requested analyses? YES NO
 Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO
 Were all VOC vials free of air bubbles? NA YES NO
 Was sufficient amount of sample sent in each bottle? YES NO
 Date VOC Trip Blank was made at ARI..... NA 7/23/10
 Was Sample Split by ARI : NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JM Date: 8/3/10 Time: 1400

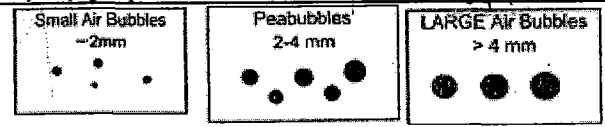
**** Notify Project Manager of discrepancies or concerns ****

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

Additional Notes, Discrepancies, & Resolutions:

9 containers received for MW13-10-11-5-080210, but 1 Methanol vial received empty with no sample.

By: JM Date: 8/3/10



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



ARI Job No: RG94

PC: Sue D.

VTSR: 08/02/10

Inquiry Number: NONE

Analysis Requested: 08/03/10

Contact: Massingale, Jessi

Client: Floyd/Snider

Logged by: MM

Sample Set Used: Yes-490

Validatable Package: ~~NO~~ **YES**

Deliverables:

Project #: POS-LLA
 Project: POS-LLA (Lora Lake Apartments)
 Sample Site:
 SDG No:
 Analytical Protocol: In-house

LOGNUM	ARI ID	CLIENT ID	CN	WAD	NH3	COD	FOG	MET	PHEN	PHOS	TKN	NO23	TOC	S2	AK102	Fe2+	DMET	DOC	FLT	FLT	PARAMETER	ADJUSTED	LOT	AMOUNT	DATE/BY
10-18604	RG94K	MW12-ER-080210	>12	>12	<2	<2	<2	<2	<2	<2	<2	<2	<2	>9	<2	<2									
								TOT																	

Checked By *[Signature]* Date 8/3/10

Case Narrative, Data Qualifiers, Control Limits

ARI Job ID: RG94



Case Narrative

Client: Floyd Snider
Project: Lora Lake RI, POS-LLA
ARI Job No.: RG94

Sample receipt

Analytical Resources, Inc. (ARI) accepted twenty-one soil samples, one water sample, and a trip blank on August 17, 2010 under ARI job RG94. Select sample containers were archived upon receipt. The cooler temperatures measured by IR thermometer following ARI SOP were 1.6 and 7.1°C. For details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

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

Volatiles by SW8260C

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

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

The surrogate percent recoveries were within control limits.

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

The matrix spike duplicate percent recovery of 1,2-Dichloroethane fell outside the advisory control limits low for sample **MW12-8-9.5-080210**. No corrective action is required for matrix QC.

PAHs by SW8270D

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

Sample **MW12-ER-080210** was re-extracted outside method recommended holding times due to a failing LCS. Both sets of data have been included for review. No further corrective action was taken.



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

The surrogate percent recoveries were within control limits.

The method blanks were clean at the reporting limits. The LCS and LCSD percent recoveries of Benzo(a)pyrene fell outside the control limits low for **LCS-080510**. The associated sample and all associated quality control were re-extracted. No further corrective action was taken.

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

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

Pentachlorophenol by SW8041

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

Samples **MW14-15-16.5-080210**, **MW13-18.5-19.5-080210**, and **MW13-18.5-19.5-080210-D** were re-extracted within method recommended holding times for samples stored frozen, due to failing QC.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries of 2,4,6-Tribromophenol were undetected for samples **MW14-15-16.5-080210**, **MW13-18.5-19.5-080210**, and **MW13-18.5-19.5-080210-D**. The samples were re-extracted and all surrogate percent recoveries were within control limits. Only the re-extract data have been reported. No further corrective action was taken.

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

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

Acid/Silica Cleaned NWTPH-Dx

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

Initial and continuing calibrations were within method requirements.



The surrogate percent recoveries were within control limits.

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

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

BETX by SW8021B Mod and NWTPH-Gx

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

Initial and continuing calibrations were within method requirements. .

The surrogate percent recoveries were within control limits.

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

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

Total Arsenic and Lead by SW846 6010B

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

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

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

General Chemistry (TOC/TS)

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

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

The SRM percent recovery was within limits.

The matrix spike percent recovery and replicate RSDs were within control limits.



Data Reporting Qualifiers

Effective 7/10/2009

Inorganic Data

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

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria ($< 20\%$ RSD, $< 20\%$ Drift or minimum RRF).
- S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte



- NA The flagged analyte was not analyzed for
- NR Spiked compound recovery is not reported due to chromatographic interference
- NS The flagged analyte was not spiked into the sample
- M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- M2 The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference

Geotechnical Data

- A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F Samples were frozen prior to particle size determination
- SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W Weight of sample in some pipette aliquots was below the level required for accurate weighting

SURR SOLUTIONS

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
A	1752-2	ABN	100/150	MEOH	01/22/11
B	1747-2	SIM PNA	15/75	MEOH	10/07/10
C	1705-4	SIM ABN	25/37.5	MEOH	03/08/11
D	1751-1	LOW PCB	0.2	HEXANE	12/29/10
E	1661-2	HERB	62.5	MEOH	10/02/10
F	1683-3	PCP	12.5	ACETONE	12/09/10
G	1707-2	1,4DIOXANE	100	MEOH	03/19/11
H	1723-2	OP-PEST	25	MEOH	04/02/11
I	1747-1	LOW S. PNA	1.5	MEOH	10/07/10
J	1681-2	TBT-PORE	0.125	MECL2	12/01/10
K	1689-1	MED PCB	20	ACETONE	12/29/10
L	1681-1	TBT	2.5	MECL2	12/01/10
M	1682-1	EPH	1500	MECL2	09/17/10
N	1689-3	PCB	2	ACETONE	12/29/10
O	1755-1	TPH	450	MECL2	06/02/11
P	1742-2	HCID	2250	MECL2	05/13/11
Q	1620-2	EDB	1	MEOH	06/22/10
R	1615-1	RESIN ACID	250	ACETONE	06/17/10
S*	1568-5	PBDE	.25	MEOH	01/13/11
T	1674-2	ALKYL PNA	10	MEOH	07/30/10
U	1633-1	CONGENER	2.5	ACETONE	08/11/10
V					
	*reverified solution				

LCS SOLUTIONS

8/12/2010

LABL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
1	1754-4	PCB 1660	20	ACETONE	03/30/11
2#		BCOC PEST	10	ACETONE	NA
3	1705-3	PEST	02/04/20	ACETONE	03/08/11
4	1744-3	LOW PEST	0.2/0.4/2	ACETONE	03/08/11
5	1677-1	EPH	1500	MECL2	11/12/10
6	1702-2	PCP	12.5/125	ACETONE	02/18/11
7	1750-1	ABN	100	ACETONE	01/31/11
8	1681-4	TBT	2.5	MECL2	12/01/10
9	1682-2	PORE TBT	.125/.25	MECL2	12/01/10
10	1749-1	ABN ACID	100/200	MECL2	01/28/11
11	1730-2	TPHD	15000	ACETONE	04/26/11
12	1749-2	ABN BASE	200	MEOH	01/29/11
13	1716-2	LOW PCB	2	ACETONE	03/30/11
14	1753-3	LOW ABN ACID	10/20	MEOH	01/28/11
15	1726-3	SIM PNA	15/75	MEOH	10/07/10
16	1707-1	DIOXANE	100	MEOH	11/05/10
17	1644-1	1248 PCB	10	ACETONE	09/10/10
18	1726-4	LOW SIM PNA	1.5	ACETONE	10/07/10
19	1746-3	AK103	7500	ACETONE	12/01/10
20	1682-4	PNA	100	ACETONE	12/04/10
21	1725-1	SKY/BHT	100	MEOH	03/18/11
22	1728-1	HERB	12.5/12500	MEOH	10/20/10
23	1753-4	LW ABN BASE	20	MEOH	01/29/11
24	1696-1	LOW ABN	10	ACETONE	01/13/11
25#		DIPHENYL	100	MEOH	NA
26	1723-3	OP-PEST	25	MEOH	11/20/10
27	1668-3	STEROLS	200	MEOH	10/30/10
28#	1750-2	ADD. PEST	4	ACETONE	09/03/10
29#		DECANES	100	MEOH	NA
30	1620-1	EDB/DBCP	0.2	MEOH	06/22/10

LCS SOLUTIONS

8/12/2010

31	1707-3	TERPINEOL	100	MEOH	03/19/11
32	1619-3	GUAIACOL	50-200	ACETONE	04/30/10
33	1639-3	RETENE	100	MEOH	09/03/10
34	1633-1	CONGENERS	2.5	ACETONE	08/11/10
35	1674-3	ALKYL PNA A	10	MEOH	10/28/10
36	1601-3	ALKYL PNA B	10	MEOH	05/13/10
50	1617-1	FULL RESIN	250	ACETONE	06/17/10
51	1696-3	DDTS	2.5	ACETONE	06/03/10
52	1613-5	1232 PCB	20	ACETONE	06/16/10
53	1703-3	DALAPON	50	MEOH	09/11/10
53	1701-2	PBDE	0.5	ACETONE	02/10/11
54	1753-1	T-CHLORDANE	10	ACETONE	07/21/11
55	1753-2	TOXAPHENE	50	ACETONE	07/21/11
#=PROJECT SPECIFIC SOLUTION					
*=REVERIFIED SOLUTION					



**Spike Recovery Control Limits for Analysis of Solid Samples
Volatile Organic Compounds (VOA) EPA SW-846 Methods 8260C
5 mL Purge Volume ⁽⁷⁾
Effective:5/18/09**

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

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



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

Effective:5/18/09

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

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



**Spike Recovery Control Limits for Analysis of Solid Samples
Volatile Organic Compounds (VOA) EPA SW-846 Methods 8260C
5 mL Purge Volume ⁽⁷⁾
Effective:5/18/09**

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

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

(1) Control Limits calculated using all data generated 1/1/08 through 12/31/08.

(2) Control Limits calculated using all data generated 3/1/07 through 11/15/07.

(3) ME = A marginal exceedance defined in the NELAC Standard⁽⁵⁾ as beyond the LCS-CL but still within the ME limits. ME limits are between 3 and 4 standard deviations around the mean. A maximum of four marginal exceedances are acceptable. Five or more marginal exceedances require corrective action.

(4) Marginal Exceedances not allowed for surrogate standards

(5) 2003 NELAC Standard (EPA/600/R-04/003), July 2003, Chapter 5, pages 251-252.

(6) 30 – 160 are default, advisory control limits used when there is insufficient data to calculate historic control limits. **DO NOT** use these limits as the sole reason to reject the data from a batch of analyses

(7) Highlighted control limits (**bold font**) are adjusted from the calculated values as follows:

a) ARI does not use control limits < 10

b) Control limits for analyzes with no separate preparation procedure are adjusted to reflect the minimum uncertainty in the calibration of the instrument allowed by the referenced analytical method.

(8) Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.



Spike Recovery Control Limits for Polycyclic Aromatic Hydrocarbons EPA Method SW-846-8270D ^(1,2)

Effective 5/1/09

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

Sample Matrix	Water		Soil	
Sample Volume / Final Volume	500 mL to 0.5 mL		7.5 g / 0.5 mL	
LCS Spike Recovery ⁽⁶⁾	Control Limits	ME Limits ⁽³⁾	Control Limits	ME Limits ⁽³⁾
Napthalene	30 - 100	21 - 100	37 - 100	31 - 100
2-Methylnapthalene	33 - 108	21 - 121	43 - 101	33 - 111
1-Methylnapthalene	34 - 100	26 - 100	39 - 100	32 - 100
Acenaphthylene	45 - 100	38 - 100	44 - 100	37 - 100
Acenaphthene	40 - 100	32 - 100	41 - 100	35 - 100
Dibenzofuran	45 - 100	37 - 100	44 - 100	37 - 100
Fluorene	45 - 100	37 - 105	49 - 100	43 - 100
Phenanthrene	47 - 101	38 - 110	48 - 100	42 - 100
Anthracene	47 - 100	38 - 108	50 - 100	44 - 100
Fluoranthene	48 - 110	38 - 120	54 - 100	47 - 107
Pyrene	48 - 109	38 - 119	41 - 105	30 - 116
Benz(a)anthracene	44 - 105	34 - 115	49 - 100	42 - 102
Chrysene	50 - 103	41 - 112	50 - 100	43 - 101
Benzofluoranthene(s) (Total)	30 - 160 ⁽⁷⁾	30 - 160 ⁽⁷⁾	30 - 160 ⁽⁷⁾	30 - 160 ⁽⁷⁾
Benzo(a)pyrene	44 - 107	34 - 118	50 - 100	42 - 105
Indeno(1,2,3-cd)pyrene	30 - 106	17 - 119	33 - 101	22 - 112
Dibenzo(a,h)anthracene	42 - 103	32 - 113	37 - 104	26 - 115
Benzo(g,h,i)Perylene	42 - 102	32 - 112	33 - 107	21 - 119
MB / LCS Surrogate Recovery		-		
d14-p-Terphenyl	52 - 110	(5)	47 - 112	(5)
2-Fluorobiphenyl	36 - 100	(5)	40 - 100	(5)
Sample Surrogate Recovery				
d14-p-Terphenyl	23 - 120	(5)	35 - 112	(5)
2-Fluorobiphenyl	38 - 100	(5)	34 - 100	(5)

(1) Control limits calculated using all available spike recovery data from 7/1/07 through 2/27/09.

(2) Highlighted control limits (**bold font**) adjusted to demonstrate that ARI does not use control limits < 10 for the lower limit or < 100 for the upper limit.

(3) **ME** = A marginal exceedance defined in the NELAC Standard (4) as beyond the LCS-CL but still within the ME limits. ME limits are between 3 and 4 standard deviations around the mean. A maximum of one marginal exceedance is acceptable. Two or more marginal exceedances require corrective action.

(4) **2003 NELAC Standard (EPA/600/R-04/003), July 2003, Chapter 5, pages 251-252.**

(5) Marginal Exceedances are not allowed for surrogate standards.

(6) Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.

(7) Default limits pending generation of historic limits for total benzofluoranthrenes (7/29/10)



Spike Recovery Control Limits for Chlorinated Phenols EPA Method SW-846-8041^(1,2)

Effective 5/1/09

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

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

(1) ARI's Control limits calculated using all available spike recovery data from 1/1/08 through 12/1/08.

(2) Highlighted control limits (**bold font**) adjusted to demonstrate that ARI does not use control limits < 10.

(3) Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.



**Spike Recovery Control Limits Hydrocarbon Identification (NWTPH-HCID)
and Diesel Range Petroleum Hydrocarbons (NWTPH-D & AK-102) ⁽¹⁾**
Effective 5/1/09

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

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

1. Control Limits calculated using all data generated 1/1/08 through 12/31/08
2. Method specified, non-prescriptive limits. The NWTPH-HCID Method does not include LCS or MS analyses.
3. Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.
4. Alaska State UST Methods do not allow acid cleanup of sample extracts.



**Spike Recovery Control Limits BTEX – EPA Method 8021 &
Gasoline – Methods NWTPH-G and AK101^(1,2)**

Effective 5/1/09

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

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

(1) Control Limits calculated using all data generated 1/1/08 through 12/31/08.

(2) Highlighted control limits (bold font) are adjusted from the calculated values as follows:

a) Highlighted control limits (**bold font**) adjusted to demonstrate that ARI does not use control limits < 10 for the lower limit or < 100 for the upper limit.

b) Control limits for analytes with no separate preparation procedure are adjusted to reflect the minimum uncertainty in the calibration of the instrument allowed by the referenced analytical method.

(3) Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.



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

Effective 5/1/09

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

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



Spike Recovery Control Limits for Conventional Wet Chemistry		
Effective 5/1/09		
Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip		
Sample Matrix:	ARI's Control Limits	
	Water	Soil / Sediment
Matrix Spike Recoveries	% Recovery	% Recovery
Ammonia	75 - 125	75 - 125
Bromide	75 - 125	75 - 125
Chloride	75 - 125	75 - 125
Cyanide	75 - 125	75 - 125
Ferrous Iron	75 - 125	75 - 125
Fluoride	75 - 125	75 - 125
Formaldehyde	75 - 125	75 - 125
Hexane Extractable Material	-- - --	78 - 114
Hexavalent Chromium	75 - 125	75 - 125
Nitrate/Nitrite	75 - 125	75 - 125
Oil and Grease	75 - 125	75 - 125
Phenol	75 - 125	75 - 125
Phosphorous	75 - 125	75 - 125
Sulfate	75 - 125	75 - 125
Sulfide	75 - 125	75 - 125
Total Kjeldahl Nitrogen	75 - 125	75 - 125
Total Organic Carbon	75 - 125	75 - 125
Duplicate RPDs		
Acidity	±20%	±20%
Alkalinity	±20%	±20%
BOD	±20%	±20%
Cation Exchange	±20%	±20%
COD	±20%	±20%
Conductivity	±20%	±20%
Salinity	±20%	±20%
Solids	±20%	±20%
Turbidity	±20%	±20%

**Volatile Analysis
Report and Summary QC Forms**

ARI Job ID: RG94

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MW14-15-16.5-080210

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SAMPLE

Lab Sample ID: RG94A


QC Report No: RG94-Floyd/Snider

LIMS ID: 10-18594

Project: POS-LLA (Lora Lake Apartments)

Matrix: Soil

POS-LLA

Data Release Authorized: 

Date Sampled: 08/02/10

Reported: 08/16/10

Date Received: 08/02/10

Instrument/Analyst: FINN5/PAB

Sample Amount: 8.81 g-dry-wt

Date Analyzed: 08/10/10 14:31

Purge Volume: 5.0 mL

Moisture: 16.1%

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

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	112%
d8-Toluene	100%
Bromofluorobenzene	94.4%
d4-1,2-Dichlorobenzene	101%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MW14-22.5-24-080210

Page 1 of 1

SAMPLE

Lab Sample ID: RG94B


QC Report No: RG94-Floyd/Snider

LIMS ID: 10-18595

Project: POS-LLA (Lora Lake Apartments)

Matrix: Soil

POS-LLA

Data Release Authorized: 

Date Sampled: 08/02/10

Reported: 08/16/10

Date Received: 08/02/10

Instrument/Analyst: FINN5/PAB

Sample Amount: 8.11 g-dry-wt

Date Analyzed: 08/10/10 14:55

Purge Volume: 5.0 mL

Moisture: 18.7%

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

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	107%
d8-Toluene	102%
Bromofluorobenzene	94.5%
d4-1,2-Dichlorobenzene	102%