

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20110505.b/0505b029.d
Method: /chem3/fid3b.i/20110505.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 05/06/2011
Macro: FID:3B040711

ARI ID: SU21C
Client ID: MW10-042711
Injection: 05-MAY-2011 18:14
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.874	-0.002	44538	11171	GAS (Tol-C12)	645925	40.43
C8	0.954	0.005	21707	16394	DIESEL (C12-C24)	254544	14.58
C10	1.491	-0.005	6458	8345	M.OIL (C24-C38)	163636	17.62
C12	2.242	0.010	1548	1394	AK-102 (C10-C25)	397509	19.66
C14	2.943	-0.009	796	1339	AK-103 (C25-C36)	153196	17.55
C16	3.606	-0.003	1077	1594	OR.DIES (C10-C28)	407083	16.03
C18	4.217	-0.002	828	678	OR.MOIL (C28-C40)	163870	14.54
C20	4.814	0.008	596	193	MIN.OIL (C24-C38)	163636	25.42
C22	5.364	-0.005	636	363	STODDARD (C8-C12)	452985	16.37
C24	5.893	-0.003	334	401			
C25	6.154	0.003	873	850			
C26	6.390	0.000	181	199			
C28	6.855	-0.006	381	405			
C32	7.843	-0.011	1630	1820			
C34	8.369	0.008	86	19	CREOSOT (C8-C22)	246061	38.47
Filter Peak	11.364	0.004	832	115			
C36	8.871	0.012	921	1071	BUNKERC (C10-C38)	558520	65.54
o-terph	4.359	-0.004	731967	528006	JET-A (C10-C18)	280948	54.47
Triacon Surr	7.356	-0.009	475392	517609	IT.MOIL (C24-C40)	693679	32.28

Range Times: NW Diesel(2.283 - 5.946) NW Gas(0.827 - 2.283) NW M.Oil(5.946 - 9.397)
AK102(1.446 - 6.101) AK103(6.101 - 8.909) Jet A(1.446 - 4.269)

Surrogate	Area	Amount	%Rec
o-Terphenyl	528006	33.5	74.5
Triacontane	517609	40.3	89.6

MS 5/6/11

Analyte	RF	Curve Date
o-Terph Surr	15759.4	07-APR-2011
Triacon Surr	12836.6	07-APR-2011
Gas	15975.0	20-OCT-2010
Diesel	17461.0	07-APR-2011
Motor Oil	9285.7	07-APR-2011
AK102	20219.0	07-APR-2011
AK103	8727.5	29-SEPT-2010
JetA	5157.9	13-JAN-2011
Min Oil	6438.5	20-JAN-2011
OR Diesel	25401.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8522.1	20-SEP-2010
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20110505.b/0505b029.d

Date: 05-MAY-2011 18:14

Client ID: MML0-042711

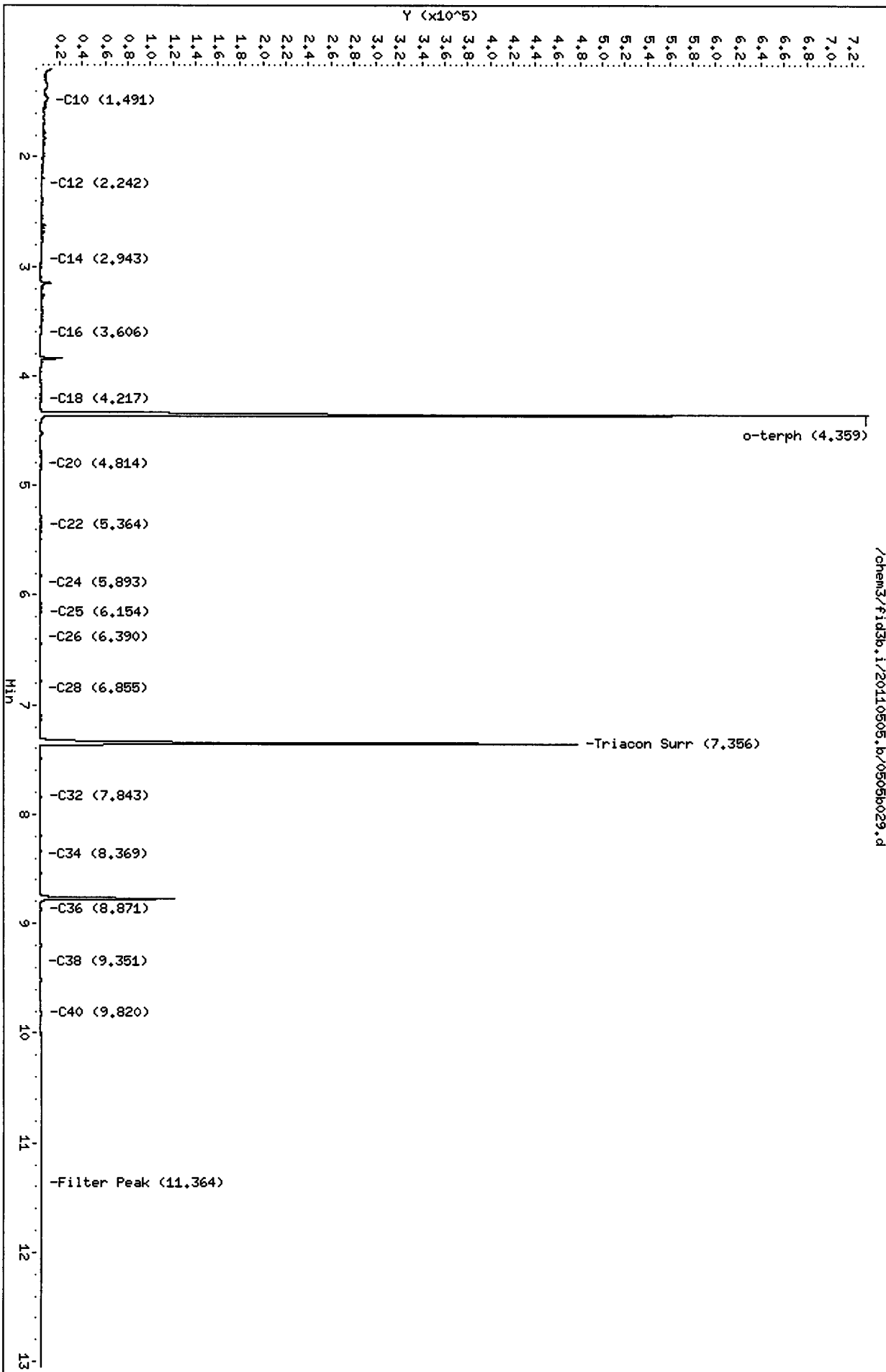
Sample Info: SU21C

Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 0.25



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20110505.b/0505b030.d
Method: /chem3/fid3b.i/20110505.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 05/06/2011
Macro: FID:3B040711

ARI ID: SU21D
Client ID: MW09-042711
Injection: 05-MAY-2011 18:36
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.875	-0.002	45917	11519	GAS (Tol-C12)	686990	43.00
C8	0.948	-0.001	23203	6814	DIESEL (C12-C24)	285479	16.35
C10	1.489	-0.007	6922	5468	M.OIL (C24-C38)	240779	25.93
C12	2.243	0.010	1646	2063	AK-102 (C10-C25)	430126	21.27
C14	2.941	-0.011	906	1554	AK-103 (C25-C36)	230354	26.39
C16	3.603	-0.006	1381	2026	OR.DIES (C10-C28)	441837	17.39
C18	4.215	-0.005	1065	810	OR.MOIL (C28-C40)	237590	21.07
C20	4.816	0.009	691	230	MIN.OIL (C24-C38)	240779	37.40
C22	5.366	-0.003	774	511	STODDARD (C8-C12)	488106	17.64
C24	5.892	-0.005	422	385			
C25	6.153	0.002	907	889			
C26	6.388	-0.002	227	191			
C28	6.855	-0.006	384	593			
C32	7.841	-0.013	1530	1729			
C34	8.371	0.010	61	29	CREOSOT (C8-C22)	275803	43.12
Filter Peak	11.357	-0.003	804	333			
C36	8.855	-0.004	327	44	BUNKERC (C10-C38)	667822	78.36
o-terph	4.357	-0.006	745185	559674	JET-A (C10-C18)	318286	61.71
Triacon Surr	7.357	-0.009	495060	526374	IT.MOIL (C24-C40)	778759	36.24

Range Times: NW Diesel(2.283 - 5.946) NW Gas(0.827 - 2.283) NW M.Oil(5.946 - 9.397)
AK102(1.446 - 6.101) AK103(6.101 - 8.909) Jet A(1.446 - 4.269)

Surrogate	Area	Amount	%Rec
o-Terphenyl	559674	35.5	78.9
Triacontane	526374	41.0	91.1

ms/6/11

Analyte	RF	Curve Date
o-Terph Surr	15759.4	07-APR-2011
Triacon Surr	12836.6	07-APR-2011
Gas	15975.0	20-OCT-2010
Diesel	17461.0	07-APR-2011
Motor Oil	9285.7	07-APR-2011
AK102	20219.0	07-APR-2011
AK103	8727.5	29-SEPT-2010
JetA	5157.9	13-JAN-2011
Min Oil	6438.5	20-JAN-2011
OR Diesel	25401.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8522.1	20-SEP-2010
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20110505.b/0505b030.d

Date: 05-MAY-2011 18:36

Client ID: HM09-042711

Sample Info: SU21D

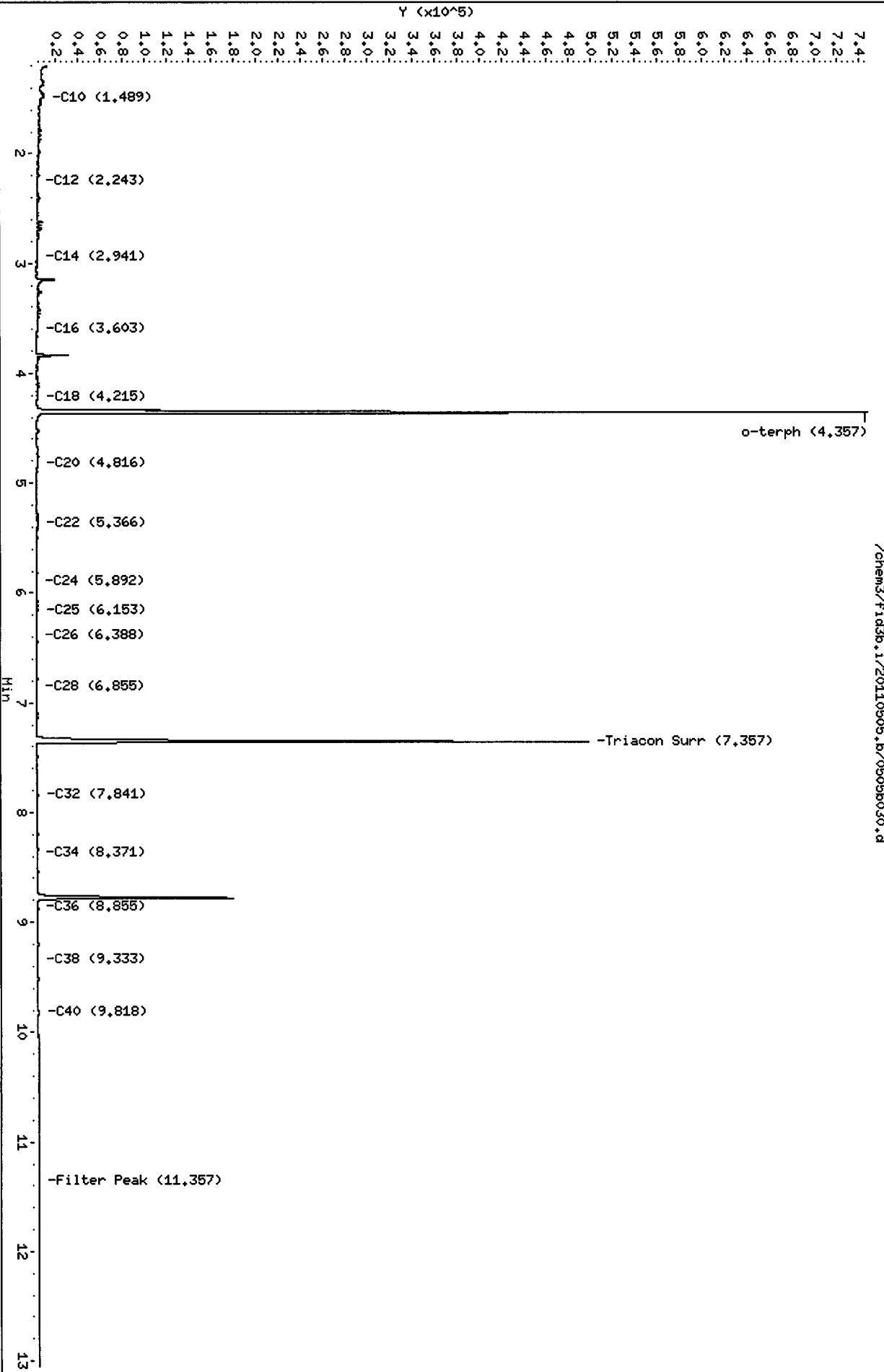
Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 0.25

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Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20110505.b/0505b031.d
Method: /chem3/fid3b.i/20110505.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 05/06/2011
Macro: FID:3B040711

ARI ID: SU21E
Client ID: MW08-042711
Injection: 05-MAY-2011 18:59
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.880	0.003	64000	27574	GAS (Tol-C12)	632634	39.60
C8	0.952	0.003	21435	8276	DIESEL (C12-C24)	257437	14.74
C10	1.490	-0.007	6421	8027	M.OIL (C24-C38)	192093	20.69
C12	2.242	0.009	1508	2338	AK-102 (C10-C25)	396574	19.61
C14	2.942	-0.011	767	820	AK-103 (C25-C36)	179539	20.57
C16	3.604	-0.005	1224	1819	OR.DIES (C10-C28)	407693	16.05
C18	4.216	-0.003	912	688	OR.MOIL (C28-C40)	191204	16.96
C20	4.815	0.008	620	324	MIN.OIL (C24-C38)	192093	29.84
C22	5.363	-0.007	712	556	STODDARD (C8-C12)	442873	16.01
C24	5.904	0.007	297	207			
C25	6.151	0.000	958	874			
C26	6.385	-0.005	220	222			
C28	6.854	-0.007	462	459			
C32	7.841	-0.013	1596	1914			
C34	8.366	0.005	130	60	CREOSOT (C8-C22)	248755	38.89
Filter Peak	11.358	-0.003	791	219			
C36	8.873	0.014	798	1033	BUNKERC (C10-C38)	585726	68.73
o-terph	4.359	-0.005	800124	577438	JET-A (C10-C18)	279822	54.25
Triacon Surr	7.355	-0.010	501088	548764	IT.MOIL (C24-C40)	754027	35.09

Range Times: NW Diesel(2.283 - 5.946) NW Gas(0.827 - 2.283) NW M.Oil(5.946 - 9.397)
AK102(1.446 - 6.101) AK103(6.101 - 8.909) Jet A(1.446 - 4.269)

Surrogate	Area	Amount	%Rec
o-Terphenyl	577438	36.6	81.4
Triacontane	548764	42.8	95.0

ms/6/4

Analyte	RF	Curve Date
o-Terph Surr	15759.4	07-APR-2011
Triacon Surr	12836.6	07-APR-2011
Gas	15975.0	20-OCT-2010
Diesel	17461.0	07-APR-2011
Motor Oil	9285.7	07-APR-2011
AK102	20219.0	07-APR-2011
AK103	8727.5	29-SEPT-2010
JetA	5157.9	13-JAN-2011
Min Oil	6438.5	20-JAN-2011
OR Diesel	25401.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8522.1	20-SEP-2010
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20110505.b/0505b031.d

Date : 05-MAY-2011 18:59

Client ID: MM08-042711

Sample Info: SU21E

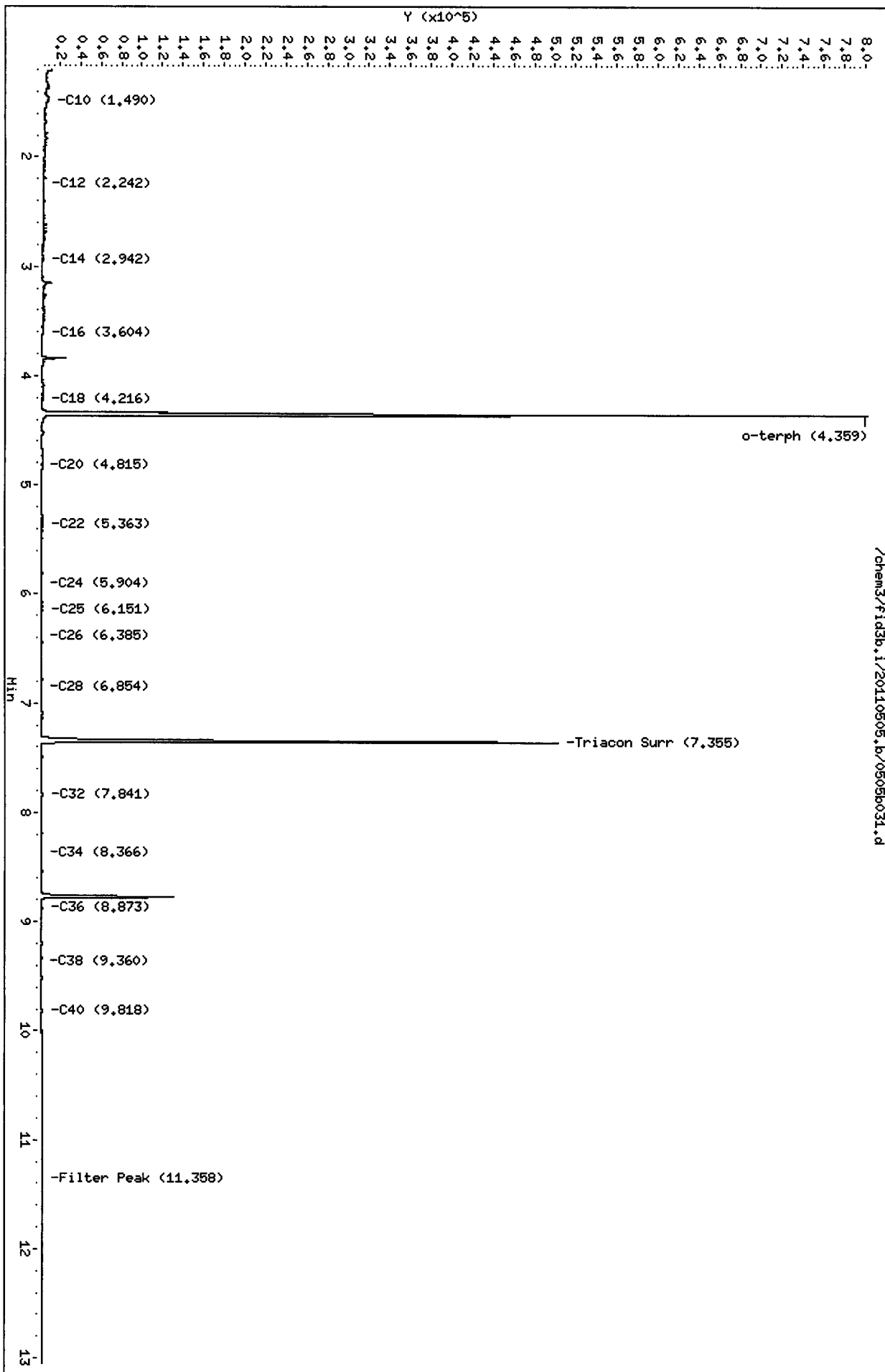
Column phase: RTX-1

Instrument: fid3b.i

Operator: HS

Column diameter: 0.25

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Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20110505.b/0505b032.d
Method: /chem3/fid3b.i/20110505.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 05/06/2011
Macro: FID:3B040711

ARI ID: SU21F
Client ID: MW12-042711
Injection: 05-MAY-2011 19:22
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.885	0.008	56613	60768	GAS (Tol-C12)	649255	40.64
C8	0.957	0.008	22009	22126	DIESEL (C12-C24)	262755	15.05
C10	1.490	-0.006	6877	4793	M.OIL (C24-C38)	164273	17.69
C12	2.242	0.009	1521	1975	AK-102 (C10-C25)	400252	19.80
C14	2.958	0.005	661	91	AK-103 (C25-C36)	155322	17.80
C16	3.605	-0.003	1236	1840	OR.DIES (C10-C28)	411550	16.20
C18	4.215	-0.004	916	686	OR.MOIL (C28-C40)	160000	14.19
C20	4.811	0.004	617	468	MIN.OIL (C24-C38)	164273	25.51
C22	5.364	-0.005	727	519	STODDARD (C8-C12)	460339	16.64
C24	5.899	0.003	293	57			
C25	6.151	0.000	811	898			
C26	6.387	-0.003	211	234			
C28	6.854	-0.007	436	638			
C32	7.841	-0.013	1478	1693			
C34	8.365	0.004	104	21	CREOSOT (C8-C22)	253319	39.61
Filter Peak	11.358	-0.002	753	285			
C36	8.854	-0.006	323	119	BUNKERC (C10-C38)	561707	65.91
o-terph	4.358	-0.005	737335	552142	JET-A (C10-C18)	290862	56.39
Triacon Surr	7.355	-0.010	504917	530552	IT.MOIL (C24-C40)	704668	32.79

Range Times: NW Diesel(2.283 - 5.946) NW Gas(0.827 - 2.283) NW M.Oil(5.946 - 9.397)
AK102(1.446 - 6.101) AK103(6.101 - 8.909) Jet A(1.446 - 4.269)

Surrogate	Area	Amount	%Rec
o-Terphenyl	552142	35.0	77.9
Triacontane	530552	41.3	91.8

Analyte	RF	Curve Date
o-Terph Surr	15759.4	07-APR-2011
Triacon Surr	12836.6	07-APR-2011
Gas	15975.0	20-OCT-2010
Diesel	17461.0	07-APR-2011
Motor Oil	9285.7	07-APR-2011
AK102	20219.0	07-APR-2011
AK103	8727.5	29-SEPT-2010
JetA	5157.9	13-JAN-2011
Min Oil	6438.5	20-JAN-2011
OR Diesel	25401.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8522.1	20-SEP-2010
Creosote	6396.0	17-JAN-2009

MS 16/11

Data File: /chem3/fid3b.i/20110505.b/0505b032.d

Date: 05-MAY-2011 19:22

Client ID: MML2-042711

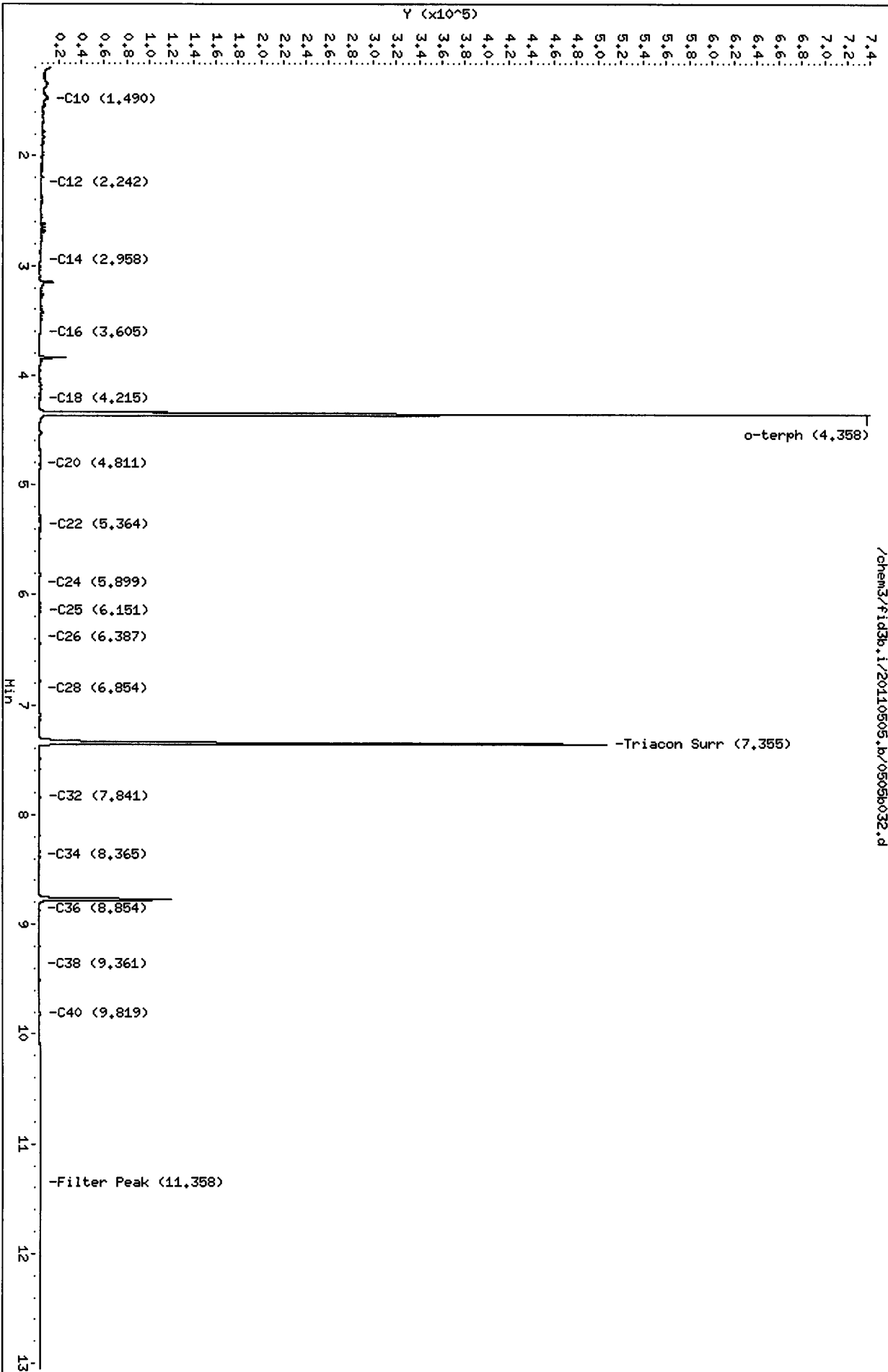
Sample Info: SU21F

Column phase: RTX-1

Instrument: fid3b.i

Operator: NS

Column diameter: 0.25



Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20110505.b/0505b033.d
Method: /chem3/fid3b.i/20110505.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 05/06/2011
Macro: FID:3B040711

ARI ID: DIESEL#3
Client ID: LORA LAKE APTS. RI
Injection: 05-MAY-2011 19:45
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.879	0.002	36363	10086	GAS (Tol-C12)	1262602	79.04
C8	0.949	0.001	25706	8944	DIESEL (C12-C24)	4483981	256.80
C10	1.499	0.002	33517	20445	M.OIL (C24-C38)	56559	6.09
C12	2.232	0.000	51592	46397	AK-102 (C10-C25)	5146162	254.52 M
C14	2.951	-0.002	87447	80619	AK-103 (C25-C36)	35751	4.10
C16	3.607	-0.002	151052	125227	OR.DIES (C10-C28)	5172125	203.62 M
C18	4.217	-0.003	125591	124941	OR.MOIL (C28-C40)	24605	2.18
C20	4.802	-0.005	74679	75077	MIN.OIL (C24-C38)	56559	8.78
C22	5.362	-0.007	34699	36652	STODDARD (C8-C12)	1126472	40.72
C24	5.889	-0.008	9474	11520			
C25	6.141	-0.010	4276	5684			
C26	6.384	-0.006	1593	2203			
C28	6.854	-0.007	213	175			
C32	7.867	0.013	31	8			
C34	8.357	-0.004	73	38	CREOSOT (C8-C22)	4345326	679.39
Filter Peak	11.365	0.005	825	164			
C36	8.851	-0.008	134	55	BUNKERC (C10-C38)	5186926	608.64
o-terph	4.359	-0.004	846633	732530	JET-A (C10-C18)	3894126	754.99
Triacon Surr	7.367	0.002	49	18	IT.MOIL (C24-C40)	66382	3.09

Range Times: NW Diesel(2.283 - 5.946) NW Gas(0.827 - 2.283) NW M.Oil(5.946 - 9.397)
AK102(1.446 - 6.101) AK103(6.101 - 8.909) Jet A(1.446 - 4.269)

Surrogate	Area	Amount	%Rec
o-Terphenyl	732530	46.5	103.3
Triacontane	18	0.0	0.0

Analyte	RF	Curve Date
o-Terph Surr	15759.4	07-APR-2011
Triacon Surr	12836.6	07-APR-2011
Gas	15975.0	20-OCT-2010
Diesel	17461.0	07-APR-2011
Motor Oil	9285.7	07-APR-2011
AK102	20219.0	07-APR-2011
AK103	8727.5	29-SEPT-2010
JetA	5157.9	13-JAN-2011
Min Oil	6438.5	20-JAN-2011
OR Diesel	25401.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8522.1	20-SEP-2010
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20110505.br/0505b033.d

Date: 05-MAY-2011 19:45

Client ID: LORA LAKE APTS. RI

Sample Info: DIESEL#3

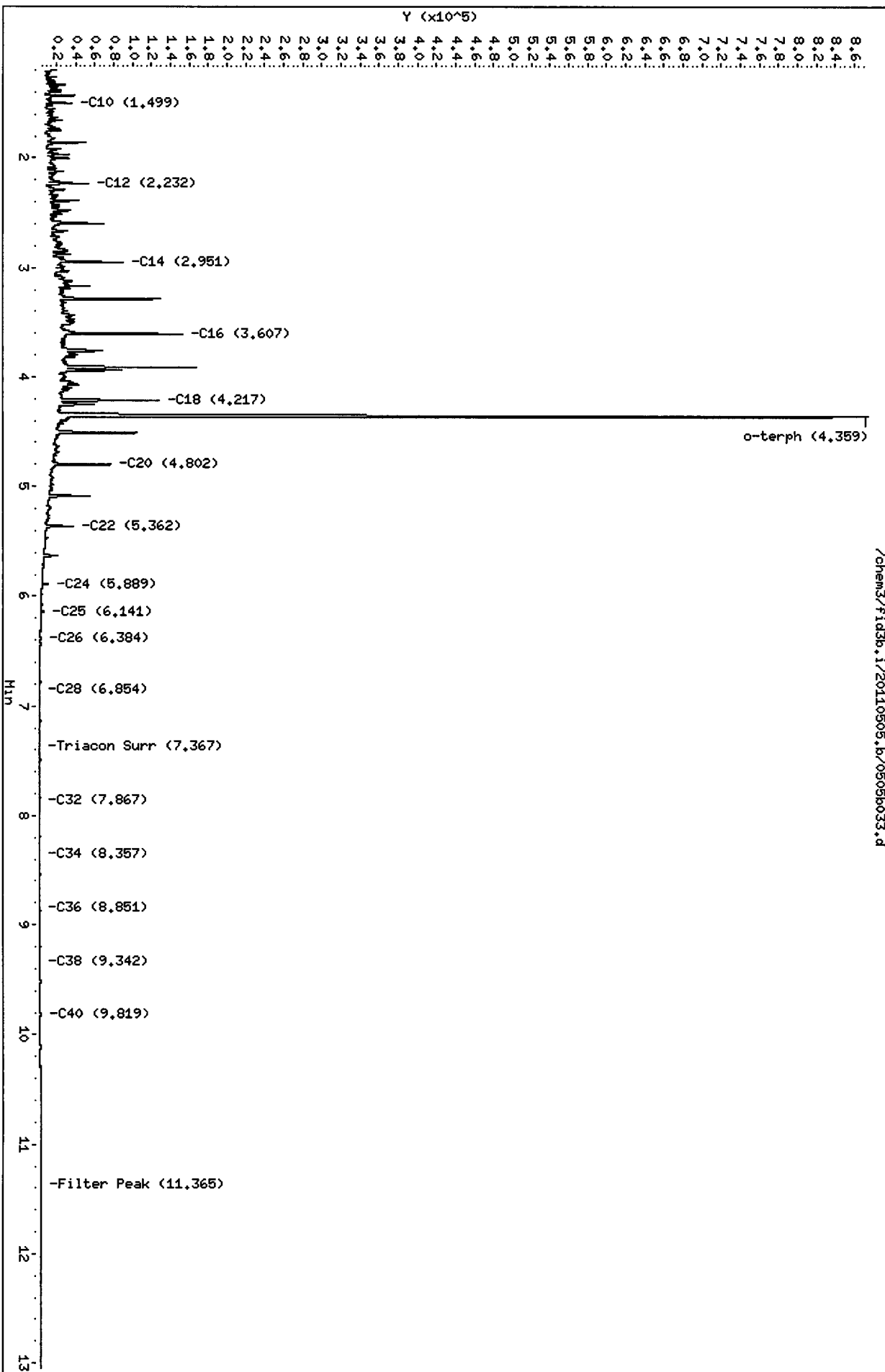
Column phase: RTX-1

Instrument: fid3b.i

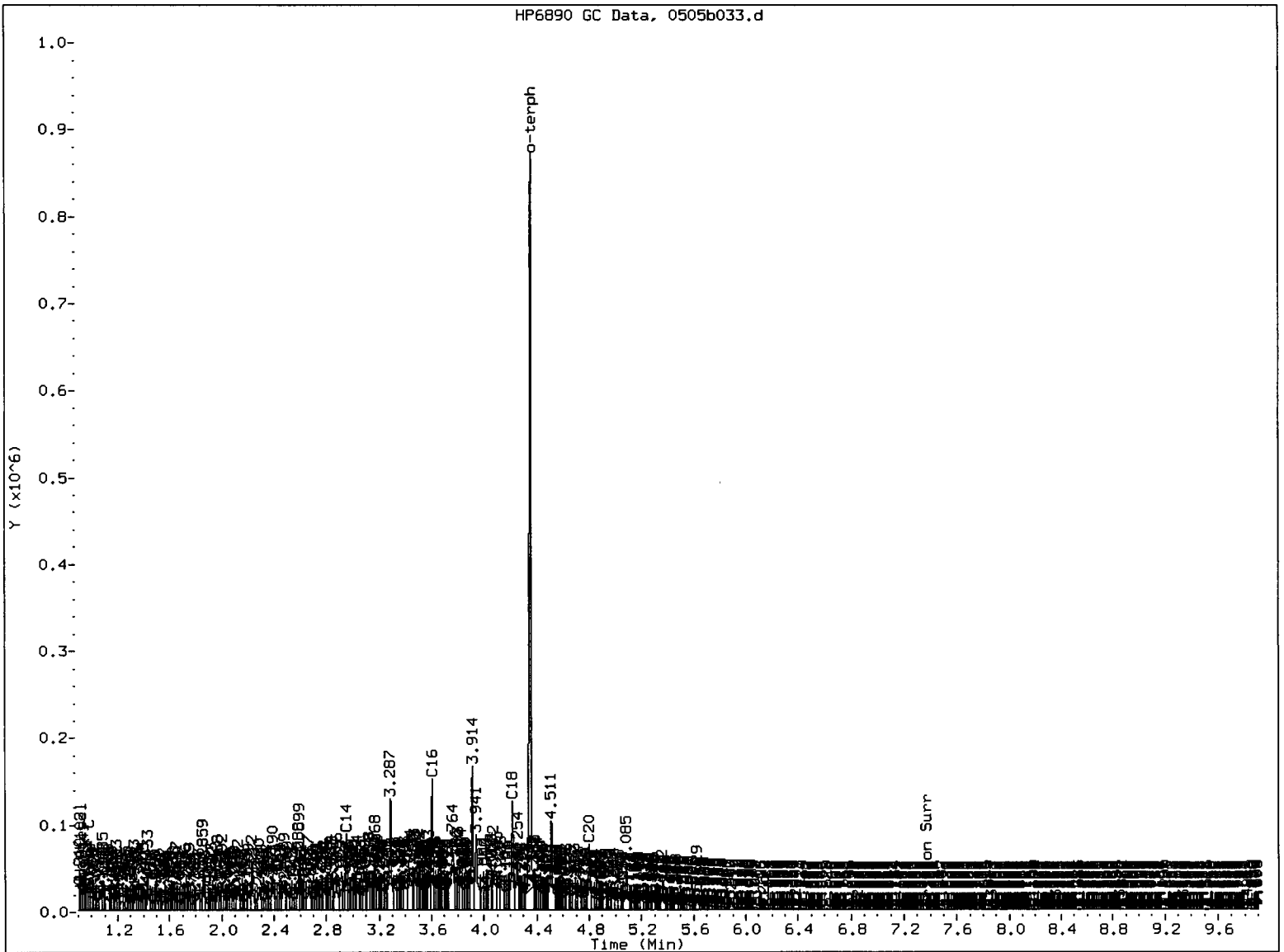
Operator: HS

Column diameter: 0.25

/chem3/fid3b.i/20110505.br/0505b033.d



HP6890 GC Data, 0505b033.d



MANUAL INTEGRATION

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

Analyst: *AM*

Date: *5/16/11*

Analytical Resources Inc.
407S TPH Quantitation Report

Data file: /chem3/fid3b.i/20110505.b/0505b034.d
Method: /chem3/fid3b.i/20110505.b/ftphfid3b.m
Instrument: fid3b.i
Operator: MS
Report Date: 05/06/2011
Macro: FID:3B040711

ARI ID: MOIL#3
Client ID: LORA LAKE APTS. RI
Injection: 05-MAY-2011 20:08
Dilution Factor: 1

FID:3B RESULTS

Compound	RT	Shift	Height	Area	Range	Total Area	Conc
Toluene	0.872	-0.005	78031	32020	GAS (Tol-C12)	789670	49.43
C8	0.993	0.044	14285	9163	DIESEL (C12-C24)	619224	35.46
C10	1.492	-0.004	6684	7710	M.OIL (C24-C38)	5051411	544.00
C12	2.234	0.001	1428	989	AK-102 (C10-C25)	894902	44.26
C14	2.949	-0.003	737	1039	AK-103 (C25-C36)	4214549	482.91 M
C16	3.604	-0.004	346	375	OR.DIES (C10-C28)	1966144	77.40
C18	4.214	-0.005	463	463	OR.MOIL (C28-C40)	4386510	389.08 M
C20	4.803	-0.004	2202	2808	MIN.OIL (C24-C38)	5051411	784.57 M
C22	5.366	-0.003	7647	4416	STODDARD (C8-C12)	437509	15.81
C24	5.894	-0.002	14588	3159			
C25	6.147	-0.004	18523	9514			
C26	6.393	0.003	22065	9066			
C28	6.863	0.002	26467	9343			
C32	7.858	0.004	28155	15630			
C34	8.364	0.003	28949	28684	CREOSOT (C8-C22)	259049	40.50
Filter Peak	11.360	0.000	5014	1294			
C36	8.858	-0.002	26820	11782	BUNKERC (C10-C38)	5796420	680.16
o-terph	4.348	-0.015	1742	1649	JET-A (C10-C18)	190877	37.01
Triacon Surr	7.359	-0.006	554050	614191	IT.MOIL (C24-C40)	6221836	289.55

Range Times: NW Diesel(2.283 - 5.946) NW Gas(0.827 - 2.283) NW M.Oil(5.946 - 9.397)
AK102(1.446 - 6.101) AK103(6.101 - 8.909) Jet A(1.446 - 4.269)

Surrogate	Area	Amount	%Rec
o-Terphenyl	1649	0.1	0.2
Triacontane	614191	47.8	106.3

Analyte	RF	Curve Date
o-Terph Surr	15759.4	07-APR-2011
Triacon Surr	12836.6	07-APR-2011
Gas	15975.0	20-OCT-2010
Diesel	17461.0	07-APR-2011
Motor Oil	9285.7	07-APR-2011
AK102	20219.0	07-APR-2011
AK103	8727.5	29-SEPT-2010
JetA	5157.9	13-JAN-2011
Min Oil	6438.5	20-JAN-2011
OR Diesel	25401.0	
OR M.Oil	11274.0	
IT M.Oil	21488.2	
Bunker C	8522.1	20-SEP-2010
Creosote	6396.0	17-JAN-2009

Data File: /chem3/fid3b.i/20110505.b/0505b034.d

Date: 05-MAY-2011 20:08

Client ID: LORA LAKE APPTS. RI

Sample Info: M01L#3

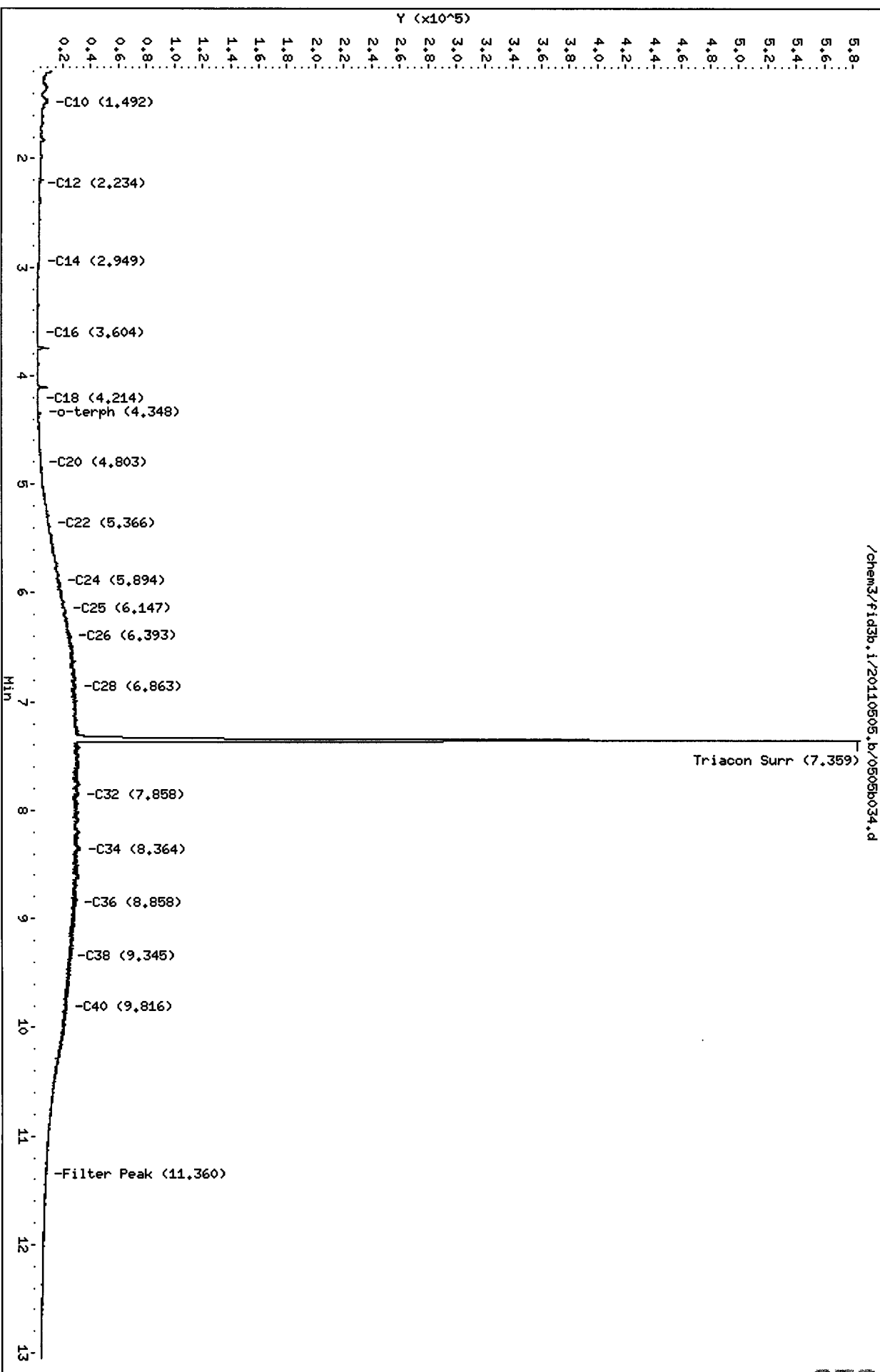
Column phase: RTX-1

Instrument: fid3b.i

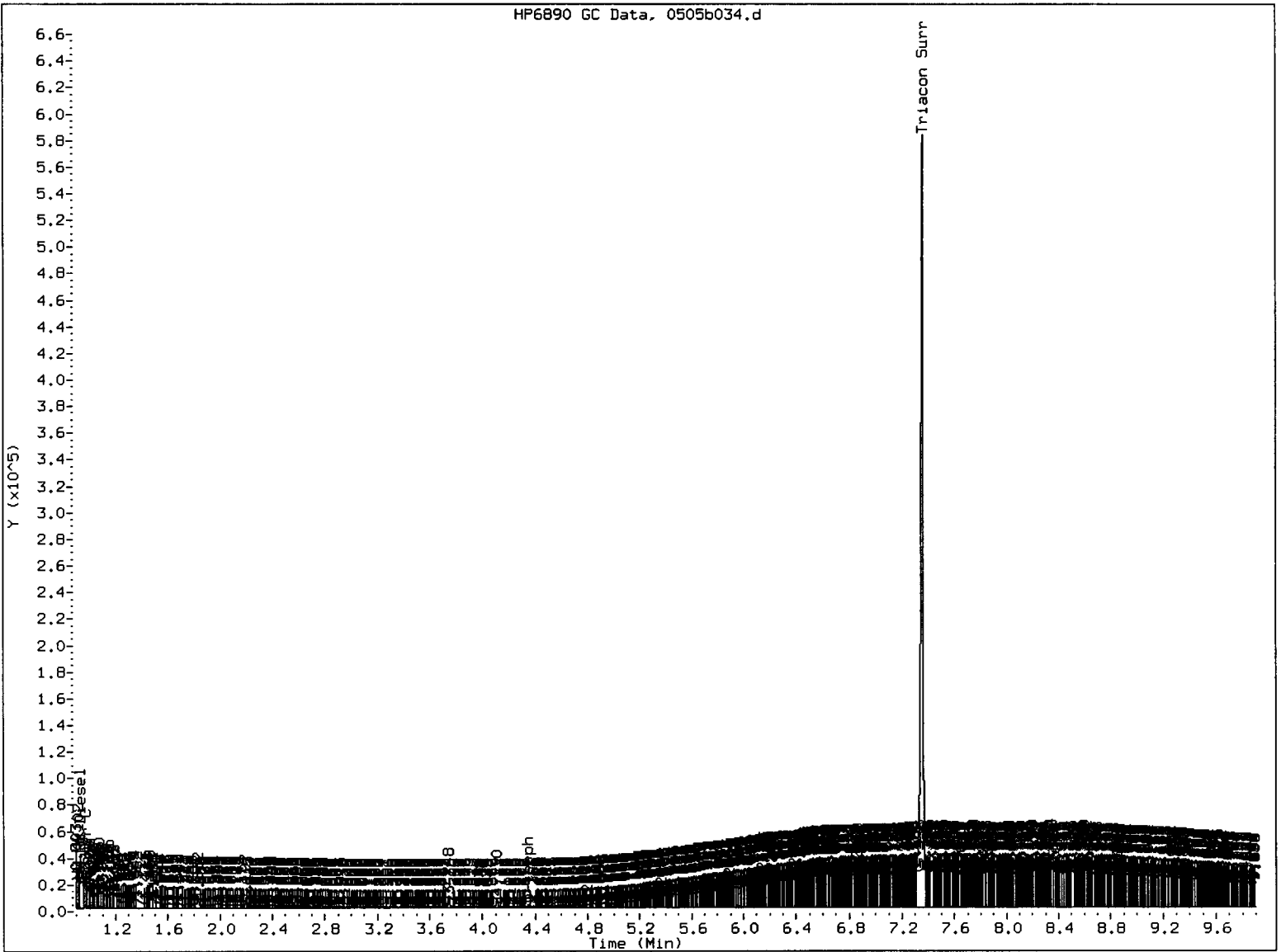
Operator: HS

Column diameter: 0.25

/chem3/fid3b.i/20110505.b/0505b034.d



HP6890 GC Data, 0505b034.d



MANUAL INTEGRATION

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

Analyst: *[Signature]*

Date: *5/28/16*

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

ARI Job ID: ST98, SU21



VOA Analyst Notes / Corrective Action Log

ARI Project ID: GAS/BETX CURVE Client ID: _____

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

Parameter(s): GAS/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: 4/16/11 Analysis Start Date: 4/16/11

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 / 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):

Gas Icu Targeted 2.5 WAGA9 2.724 108.96% 801S 2.069 87.76%
 BETX Icu Targeted 25 AK101 1.934 77.4% NWTPH6 2.623 104.92%

TFT Gas 20 Taken out due to saturation, no a curve point, Surrogates curved from BETX curve -
 Icu acceptance limit for AR101 ≤ 25%

Additional Details on Reverse: Yes / No

Analyst: [Signature] Date: 4/18/11

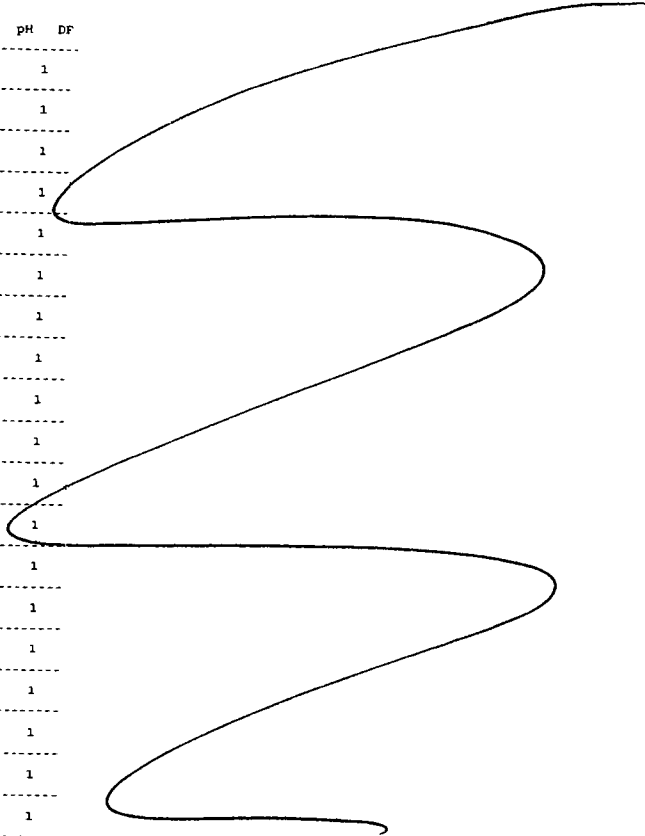
Reviewer: [Signature] Date: 4/18/11

Analytical Resources Inc.: Organics Instrument Log
PID-1 Serial No.: 2750A-17141

Date: 4/16/11 Analysis: NWTPHC/BETX Analyst: MH
 GC Program: BETX Column No: 821726 Column Type: RTX502-Z
 Instrument Tune (.U or .CT.): _____ EM Voltage: _____
 Calibration File: _____ Curve Date: 4/16/11

IS/SS	Ical/Ccal	LCS/ICV
<u>VW683-2</u>	<u>VW666-1</u>	<u>VW681-3</u>
_____	<u>VW683-3</u>	_____
_____	<u>VW681-3</u>	_____
_____	_____	_____
_____	_____	_____

Time	Filename	LabID	ClientID	Vial#	pH	DF
1	0900	0416a001 d	RINSE			1
2	0929	0416a002.d	RT+BCAL 1			1
3	0958	0416a003.d	RINSE			1
4	1027	0416a004.d	BETX .25			1
5	1056	0416a005 d	BETX 5			1
6	1126	0416a006 d	BETX 5			1
7	1155	0416a007 d	BETX 25			1
8	1224	0416a008 d	BETX 50			1
9	1253	0416a009 d	BETX 100			1
10	1322	0416a010 d	BETX 200			1
11	1352	0416a011 d	BETX ICV			1
12	1421	0416a012 d	RINSE			1
13	1450	0416a013.d	GAS 1			1
14	1519	0416a014.d	GAS 25			1
15	1548	0416a015 d	GAS 1			1
16	1617	0416a016.d	GAS 2 5			1
17	1647	0416a017 d	GAS 5			1
18	1716	0416a018.d	GAS 20			1
19	1745	0416a019 d	RINSE			1
20	1814	0416a020 d	GAS ICV			1



MH
4/18/11

Maintenance / Comments

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

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

MH
4/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0416-1.b/0416a002.d ARI ID: RT+BCAL 1
Data file 2: /chem3/pid1.i/vpcc0416-2.b/0416a002.d Client ID:
Method: /chem3/pid1.i/vpcc0416-2.b/PIDB.m Injection Date: 16-APR-2011 09:29
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	----	-----	-----
7.903	0.000	2860	38897	101.1	TFT(Surr)
15.449	-0.001	2053	17468	98.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (9.85 to 17.94)	374773	522809	1.395
8015B 2MP-TMB (4.17 to 16.23)	747017	592583	0.793
AK101 nC6-nC10 (4.67 to 15.17)	604063	416924	0.690
NWTPHG Tol-Nap (9.85 to 18.95)	403422	595802	1.477

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	-----	-----
7.901	0.000	6694	102.8	TFT(Surr)
15.449	-0.001	13426	99.6	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.060	-0.002	10845	24.74	Benzene
9.946	-0.004	10051	25.70	Toluene
12.851	-0.007	9018	26.40	Ethylbenzene
13.012	-0.013	19467	53.01	M/P-Xylene
13.970	-0.007	7735	27.01	O-Xylene
4.530	0.000	4689	27.62	MTBE

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

Data File: /chem3/pid1.i/vpcc0416-1.b/0416a002.d
Date: 16-APR-2011 09:29

Client ID:

Sample Info: RT+BCRL 1

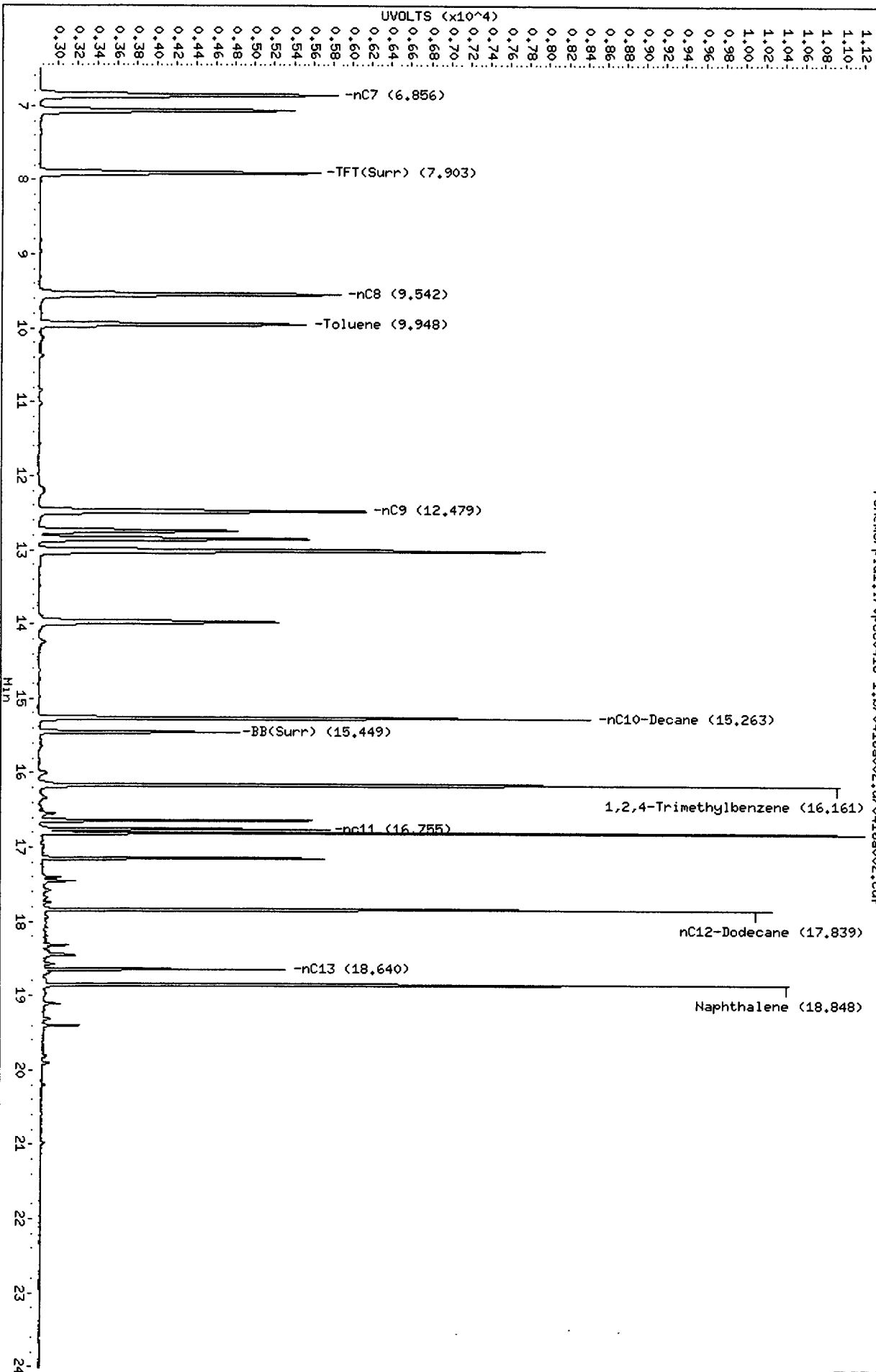
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

/chem3/pid1.i/vpcc0416-1.b/0416a002.d/0416a002.cdf



Data File: /chem3/pid1.i/vpcc0416-2.b/0416a002.d

Date: 16-APR-2011 09:29

Client ID:

Sample Info: RT+BCAL 1

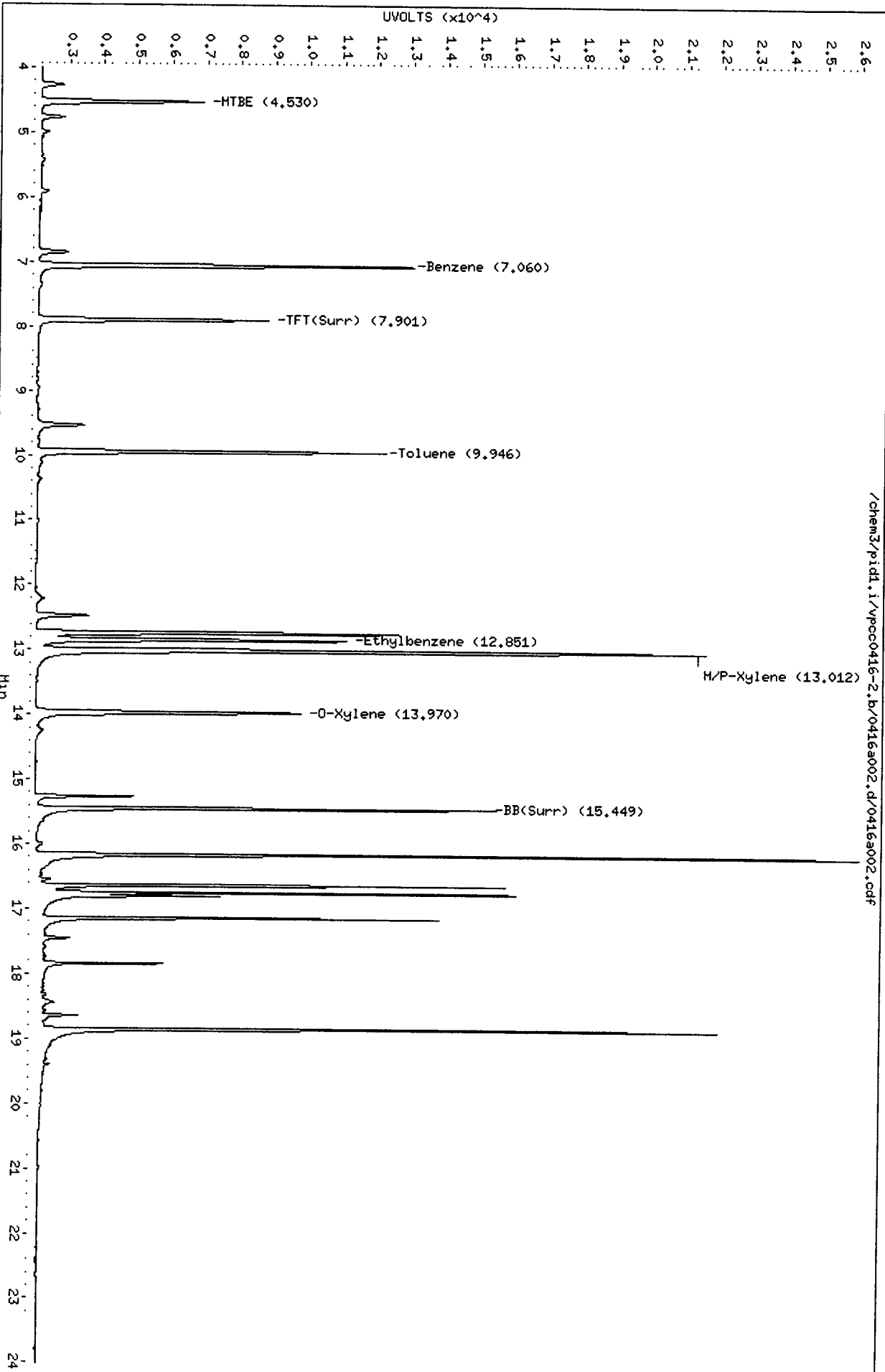
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

/chem3/pid1.i/vpcc0416-2.b/0416a002.d/0416a002.cdf



MH
4/15/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0416-1.b/0416a013.d ARI ID: GAS .1
Data file 2: /chem3/pid1.i/vpcc0416-2.b/0416a013.d Client ID:
Method: /chem3/pid1.i/vpcc0416-2.b/PIDB.m Injection Date: 16-APR-2011 14:50
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.903	0.000	2771	38384	97.9	TFT(Surr)
15.450	0.000	2043	17440	98.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.94)	374773	47325	0.126 M
8015B 2MP-TMB (4.17 to 16.23)	747017	88180	0.118 M
AK101 nC6-nC10 (4.67 to 15.17)	604063	72761	0.120 M
NWTPHG Tol-Nap (9.85 to 18.95)	403422	52064	0.129 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.901	0.000	6335	97.3	TFT(Surr)
15.450	-0.001	13443	99.7	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.047	-0.015	193	0.44	Benzene
9.947	-0.003	1481	3.79	Toluene
12.851	-0.008	380	1.11	Ethylbenzene
13.013	-0.012	1466	3.99	M/P-Xylene
13.970	-0.008	516	1.80	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/pid1.i/vpcc0416-1.b/0416a013.d
Date: 16-APR-2011 14:50

Client ID:

Sample Info: GAS .1

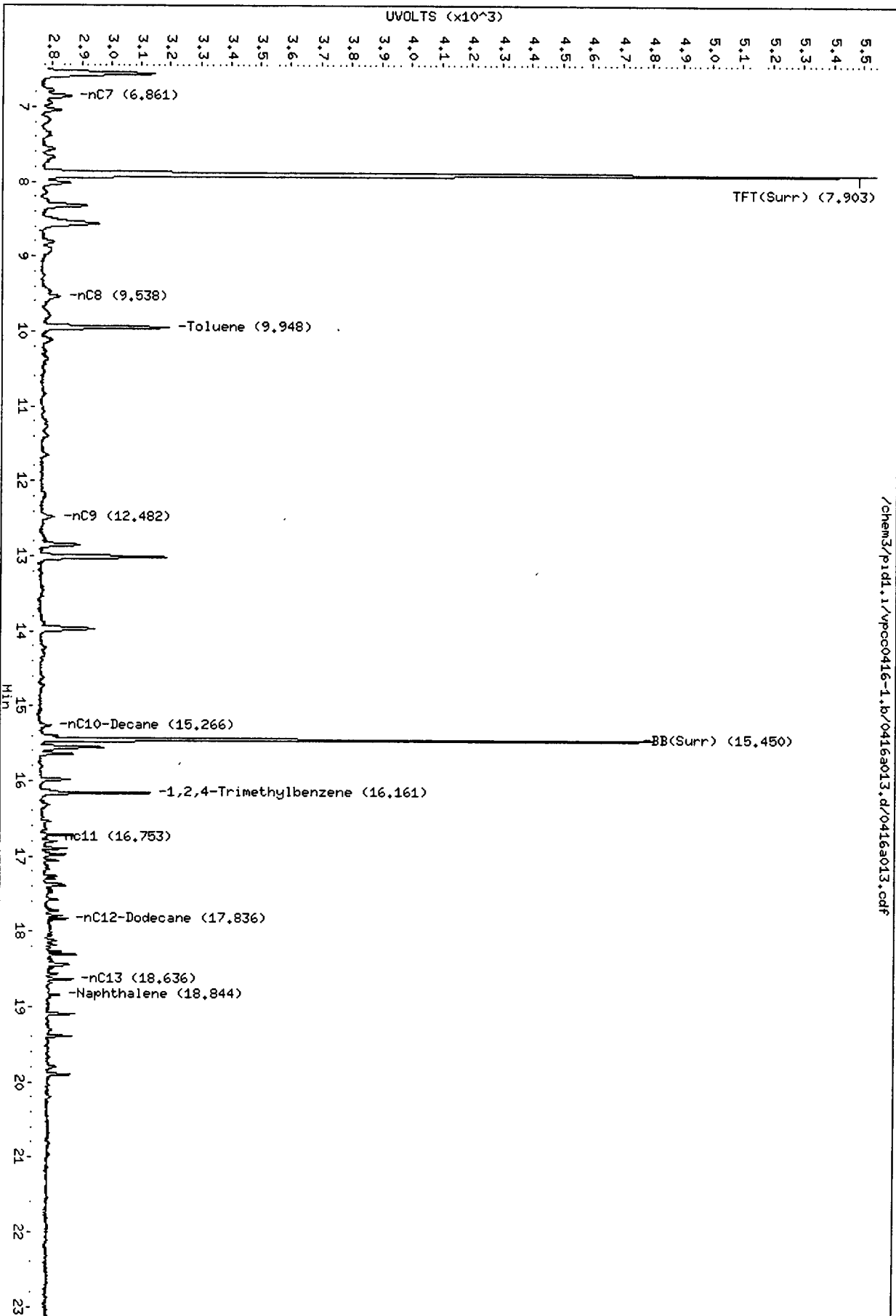
Column phase: RTX 502-2 FID

Instrument: pid1.1

Operator: HH

Column diameter: 0.18

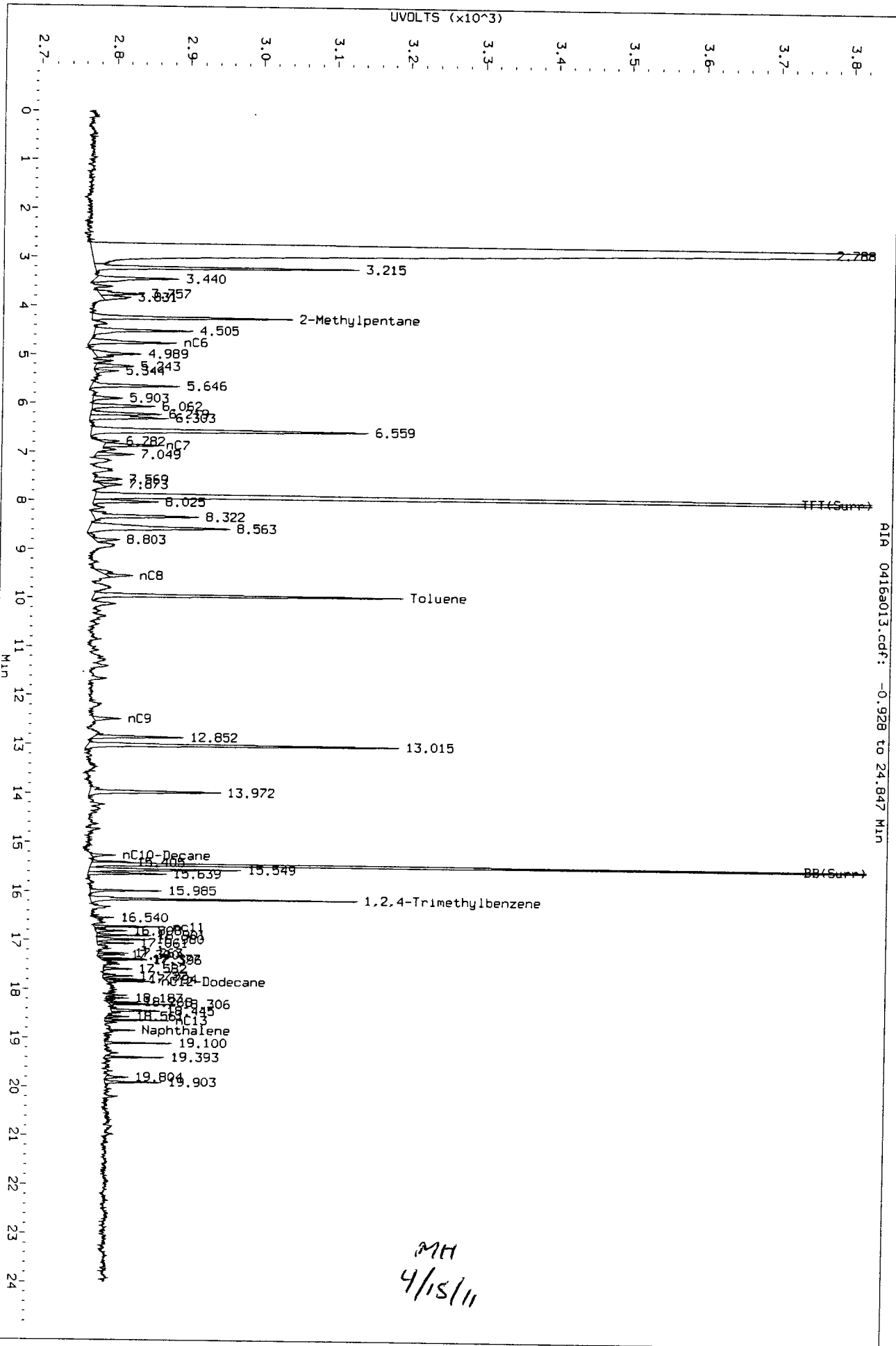
Page 1



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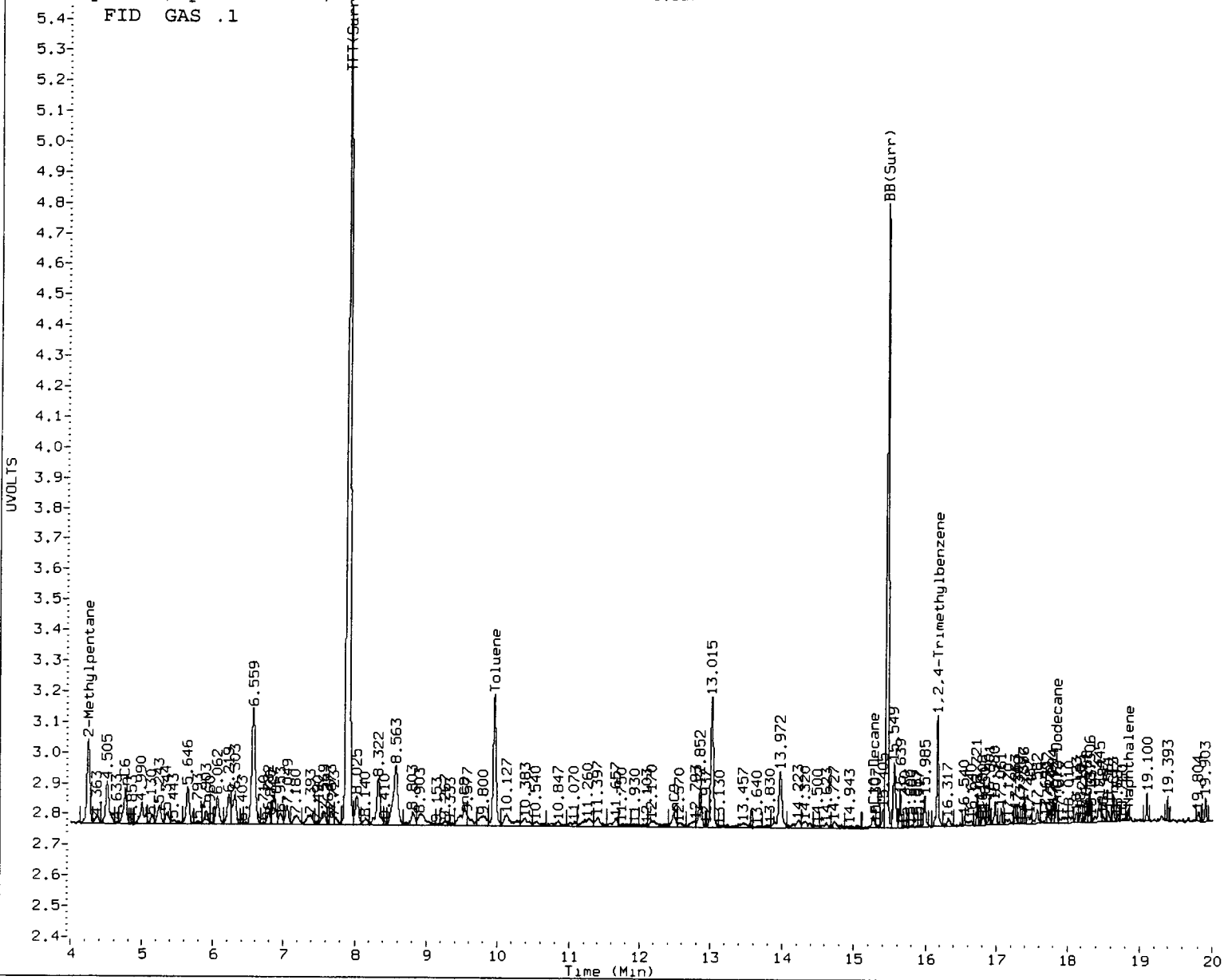
ST98 : 00958

Data File: /chem3/pid1.1/vpcc0416-1.b/0416a013.d/0416a013.cdf
Injection Date: 16-APR-2011 14:50
Instrument: pid1.1
Client Sample ID:



A1A 0416a013.cdf: -0.928 to 24.847 MIN

FID GAS .1



MANUAL INTEGRATION

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

Analyst: MH Date: 4/18/11

24
4/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0416-1.b/0416a014.d ARI ID: GAS .25
Data file 2: /chem3/pid1.i/vpcc0416-2.b/0416a014.d Client ID:
Method: /chem3/pid1.i/vpcc0416-2.b/PIDB.m Injection Date: 16-APR-2011 15:19
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	----	----	-----
7.903	0.000	2677	38042	94.6	TFT (Surr)
15.450	0.000	2012	17210	96.5	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.94)	374773	95246	0.254 M
8015B 2MP-TMB (4.17 to 16.23)	747017	192190	0.257 M
AK101 nC6-nC10 (4.67 to 15.17)	604063	155402	0.257 M
NWTPHG Tol-Nap (9.85 to 18.95)	403422	105233	0.261 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
7.901	0.000	6153	94.5	TFT (Surr)
15.450	-0.001	13197	97.9	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	----	-----
7.048	-0.014	421	0.96	Benzene
9.946	-0.004	3686	9.43	Toluene
12.851	-0.008	923	2.70	Ethylbenzene
13.014	-0.012	3623	9.87	M/P-Xylene
13.970	-0.008	1313	4.59	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/pid1.i/vpcc0416-1.b/0416a014.d

Date: 16-APR-2011 15:19

Client ID:

Sample Info: GAS .25

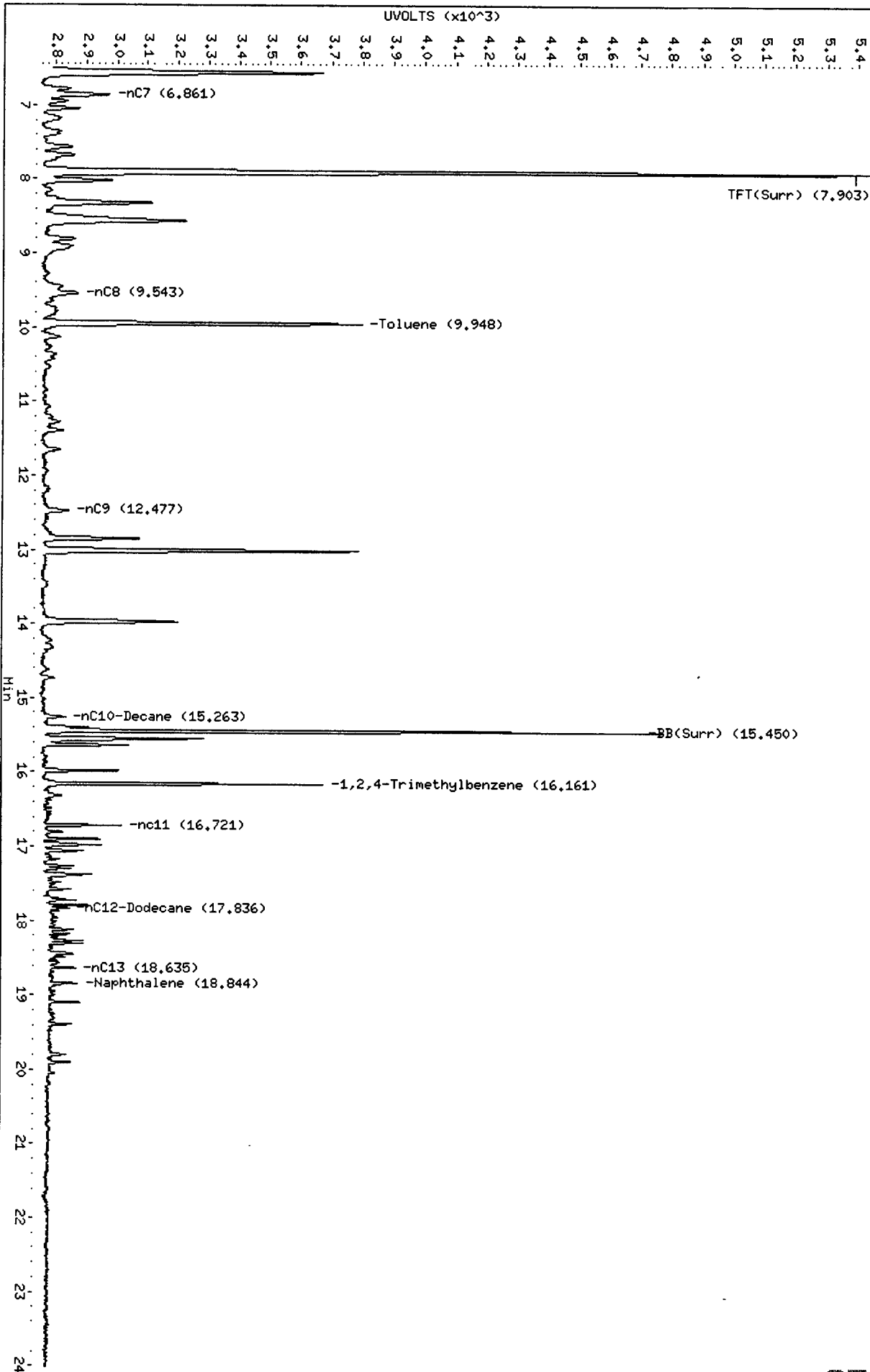
Column phase: RTX 502-2 FID

Instrument: pid1.i

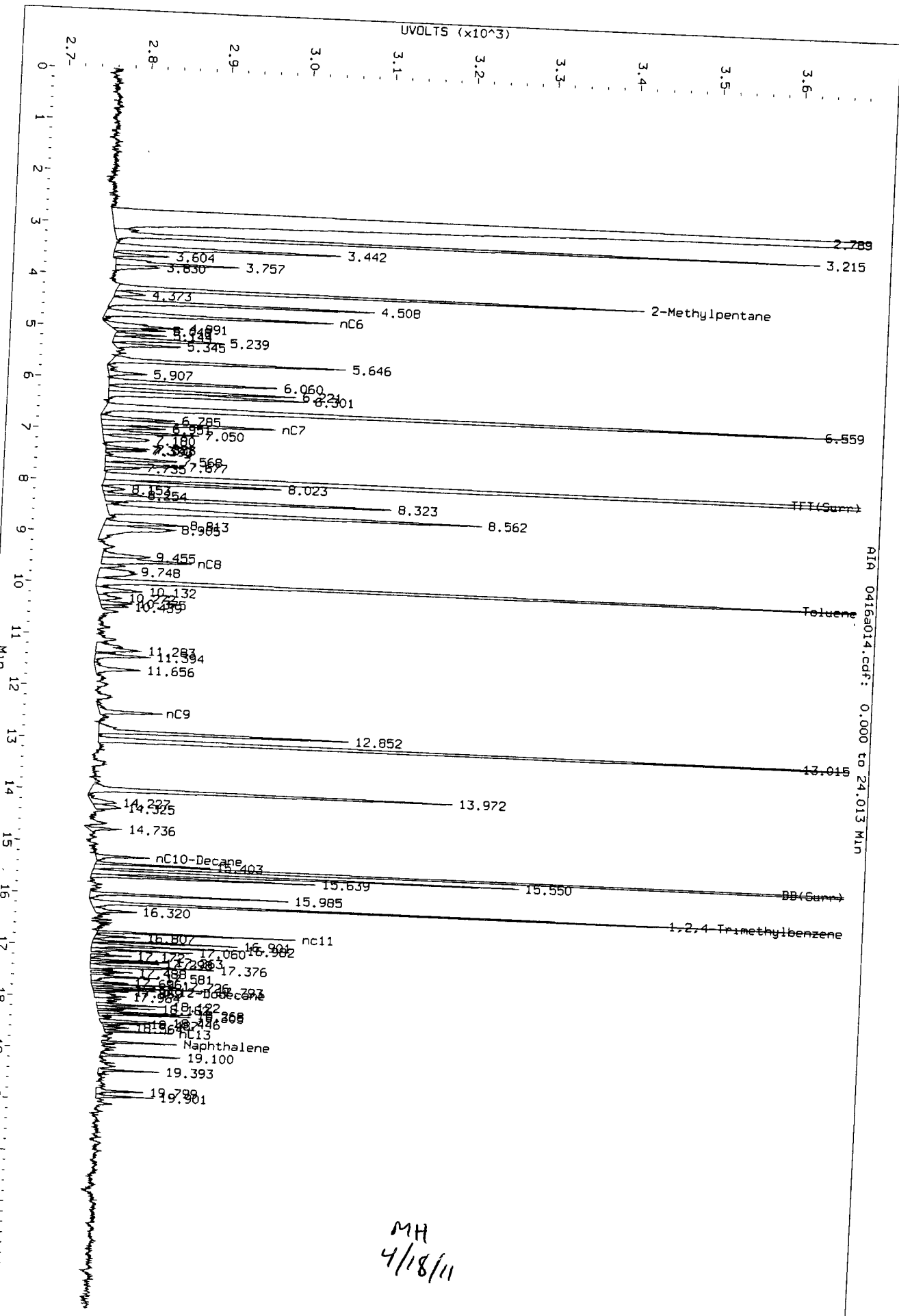
Operator: HH

Column diameter: 0.18

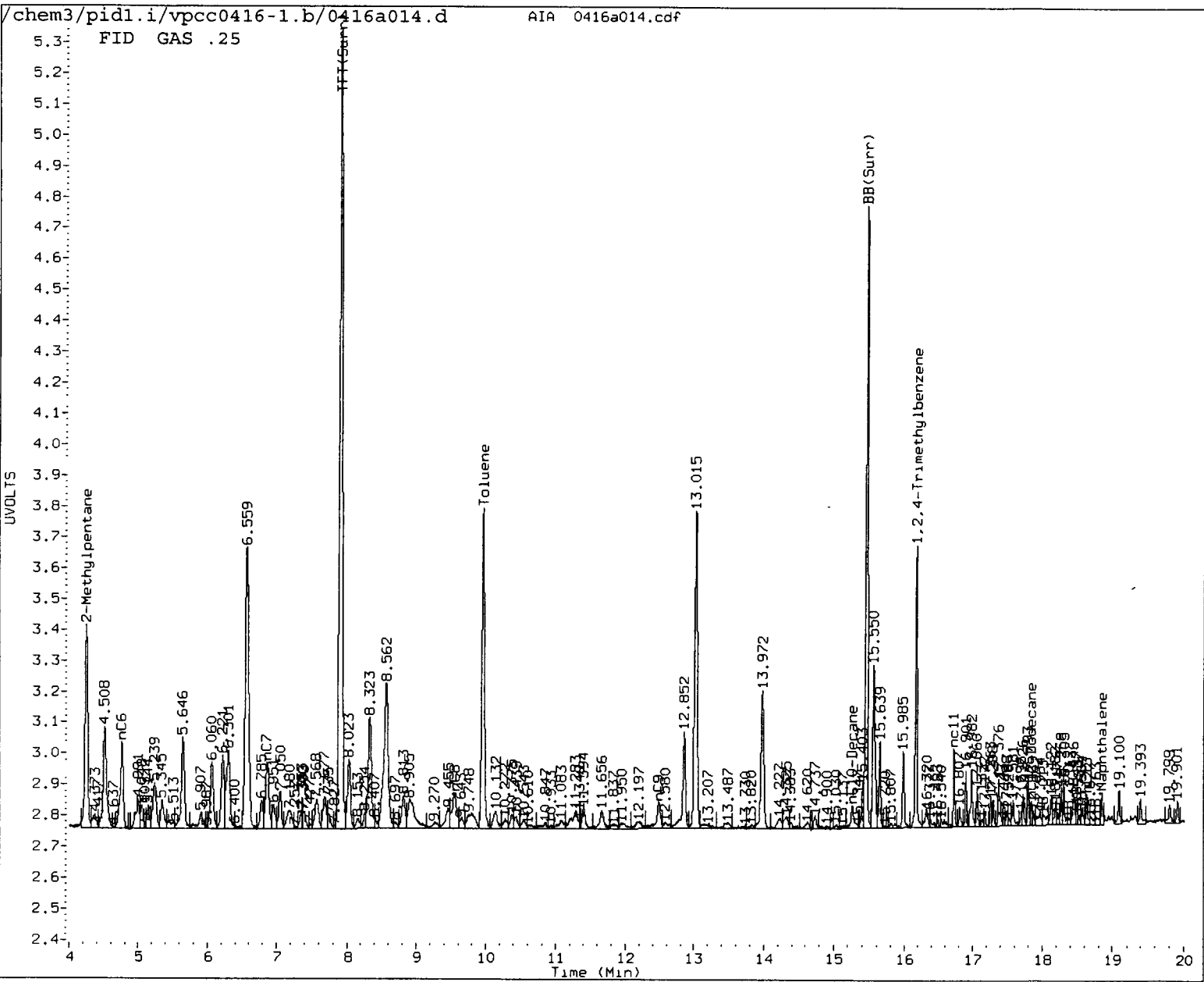
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Data File: /chem3/pid1.1/vpcc0416-1.b/0416a014.d/0416a014.cdf
Injection Date: 16-APR-2011 15:19
Instrument: pid1.1
Client Sample ID:



MH
4/18/11



MANUAL INTEGRATION

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

Analyst: MH Date: 4/18/11

MH
4/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0416-1.b/0416a015.d ARI ID: GAS 1
Data file 2: /chem3/pid1.i/vpcc0416-2.b/0416a015.d Client ID:
Method: /chem3/pid1.i/vpcc0416-2.b/PIDB.m Injection Date: 16-APR-2011 15:48
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

=====
FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	----	----	-----
7.903	0.000	2766	42400	97.8	TFT(Surr)
15.449	-0.001	2003	17577	96.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (9.85 to 17.94)	374773	347138	0.926 M
8015B 2MP-TMB (4.17 to 16.23)	747017	703324	0.942 M
AK101 nC6-nC10 (4.67 to 15.17)	604063	562218	0.931 M
NWTPHG Tol-Nap (9.85 to 18.95)	403422	370573	0.919 M

M Indicates manual integration within range

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

=====
PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
7.902	0.000	6233	95.7	TFT(Surr)
15.449	-0.001	13119	97.3	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.055	-0.007	1513	3.45	Benzene
9.947	-0.003	14957	38.25	Toluene
12.850	-0.008	3706	10.85	Ethylbenzene
13.014	-0.011	14647	39.89	M/P-Xylene
13.970	-0.008	5266	18.39	O-Xylene
4.520	-0.010	293	1.73	MTBE

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

Data File: /chem3/pid1.1/vpcc0416-1.b/0416a015.d

Date: 16-APR-2011 15:48

Client ID:

Sample Info: G05 1

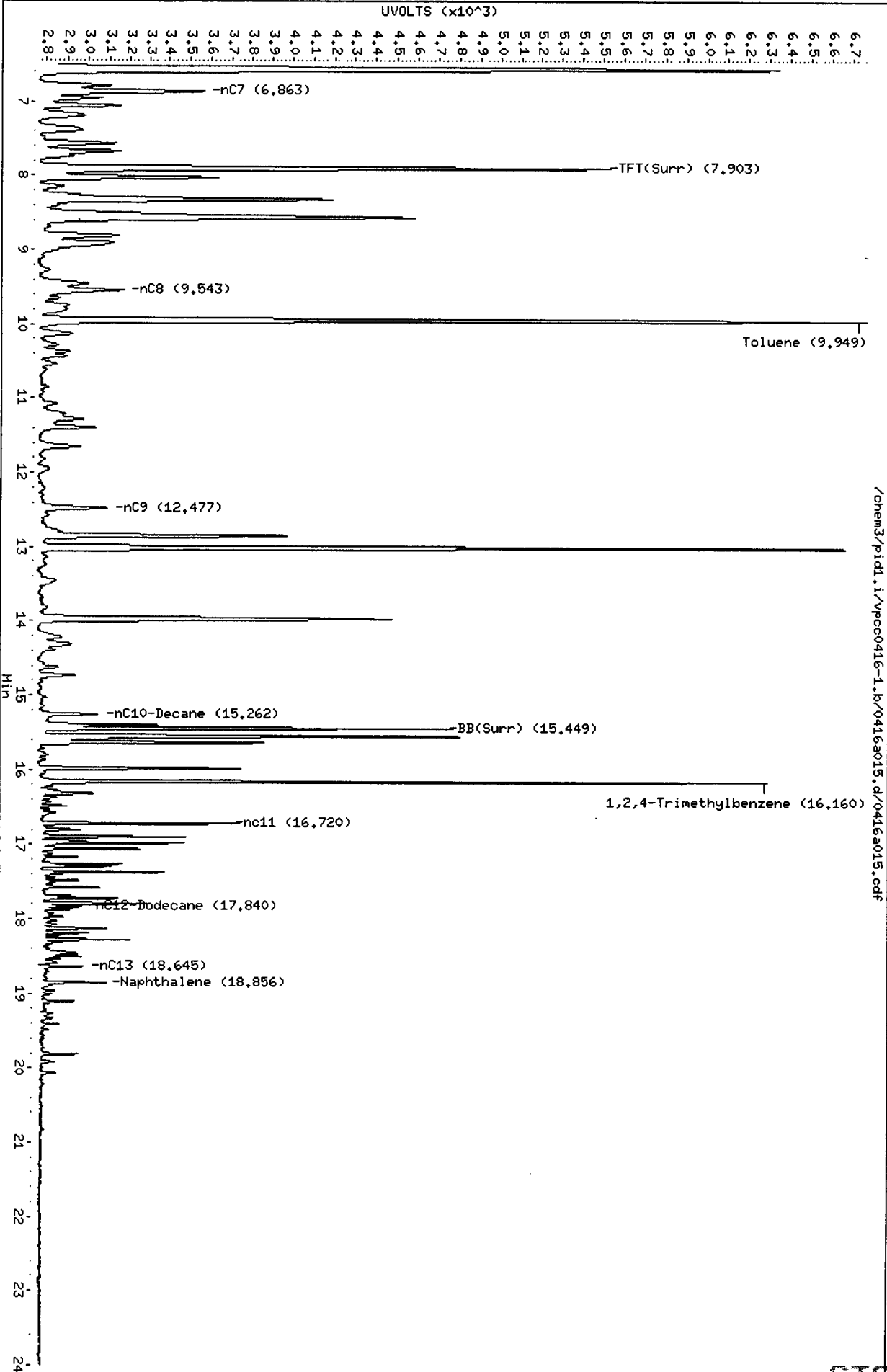
Instrument: pid1.1

Page 1

Column phase: RTX 502-2 FID

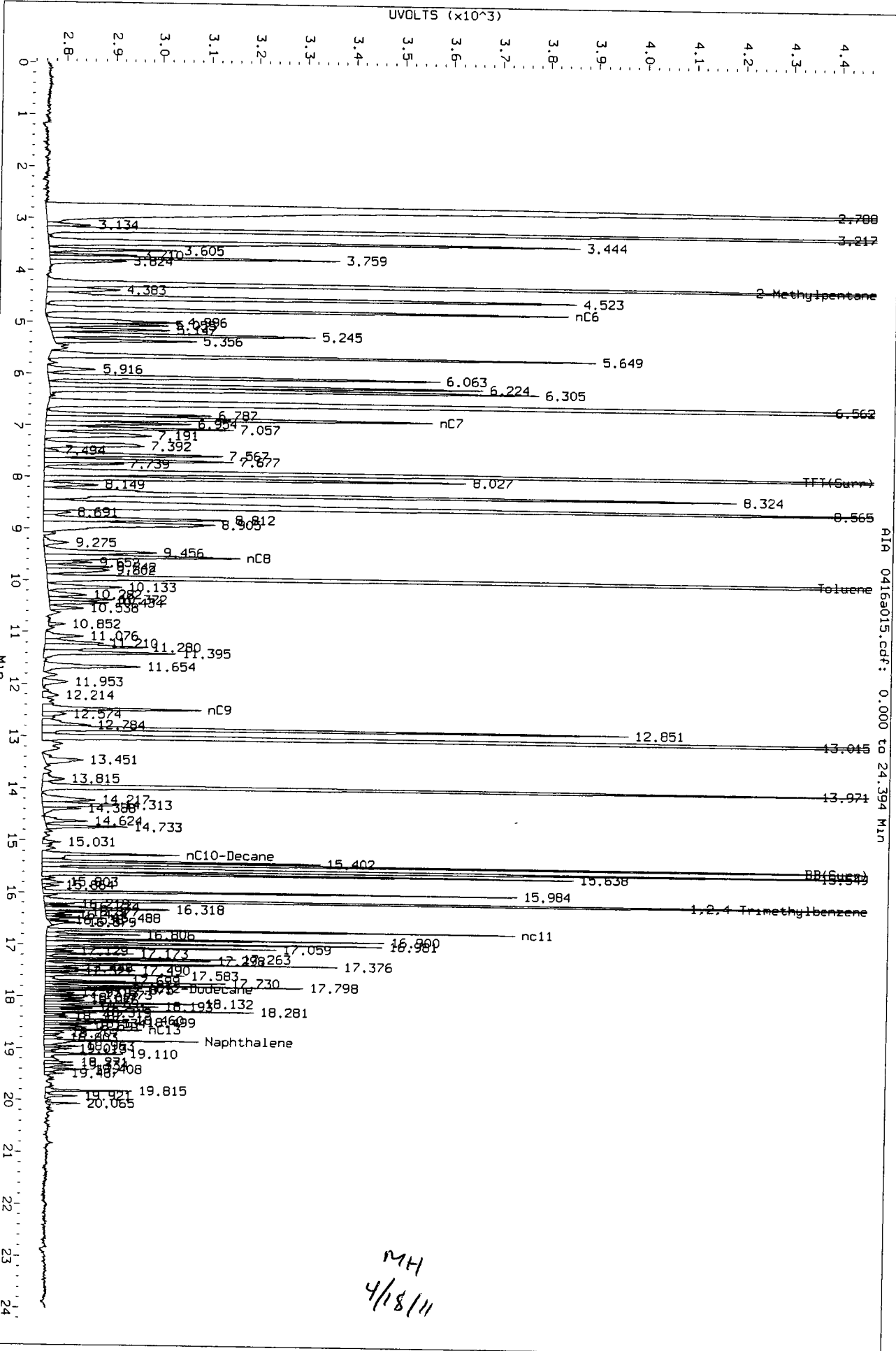
Operator: HH
Column diameter: 0.18

/chem3/pid1.1/vpcc0416-1.b/0416a015.d/0416a015.cdf



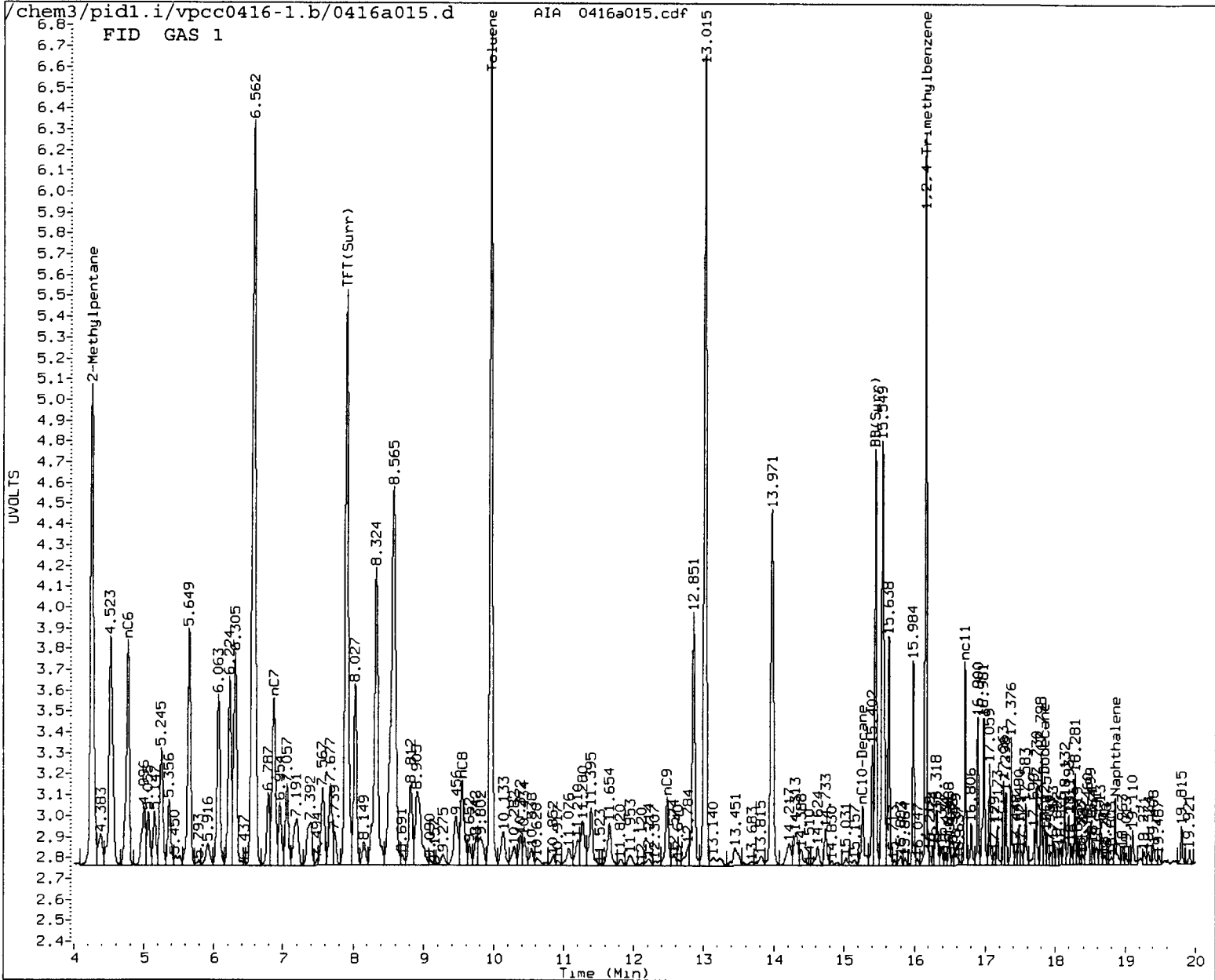
ST98 : 00966

Data File: /chem3/pid1.1/vpcc0416-1.b/0416a015.d/0416a015.cdf
 Injection Date: 16-APR-2011 15:48
 Instrument: pid1.1
 Client Sample ID:



MH
4/18/11

FID GAS 1



MANUAL INTEGRATION

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

Analyst: MH Date: 4/18/11

MH
4/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0416-1.b/0416a016.d ARI ID: GAS 2.5
Data file 2: /chem3/pid1.i/vpcc0416-2.b/0416a016.d Client ID:
Method: /chem3/pid1.i/vpcc0416-2.b/PIDB.m Injection Date: 16-APR-2011 16:17
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	-----	-----	-----
7.901	-0.002	3070	53283	108.5	TFT(Surr)
15.449	-0.001	2096	19504	100.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.94)	374773	857874	2.289 M
8015B 2MP-TMB (4.17 to 16.23)	747017	1723866	2.308 M
AK101 nC6-nC10 (4.67 to 15.17)	604063	1375148	2.276 M
NWTPHG Tol-Nap (9.85 to 18.95)	403422	908701	2.252 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	-----	-----
7.901	-0.001	6775	104.0	TFT(Surr)
15.450	-0.001	13761	102.1	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.059	-0.002	3597	8.21	Benzene
9.948	-0.002	37082	94.84	Toluene
12.851	-0.007	9206	26.95	Ethylbenzene
13.016	-0.009	36727	100.01	M/P-Xylene
13.971	-0.007	13172	46.00	O-Xylene
4.529	-0.002	724	4.26	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0416-1.b/0416a016.d
Date: 16-APR-2011 16:17

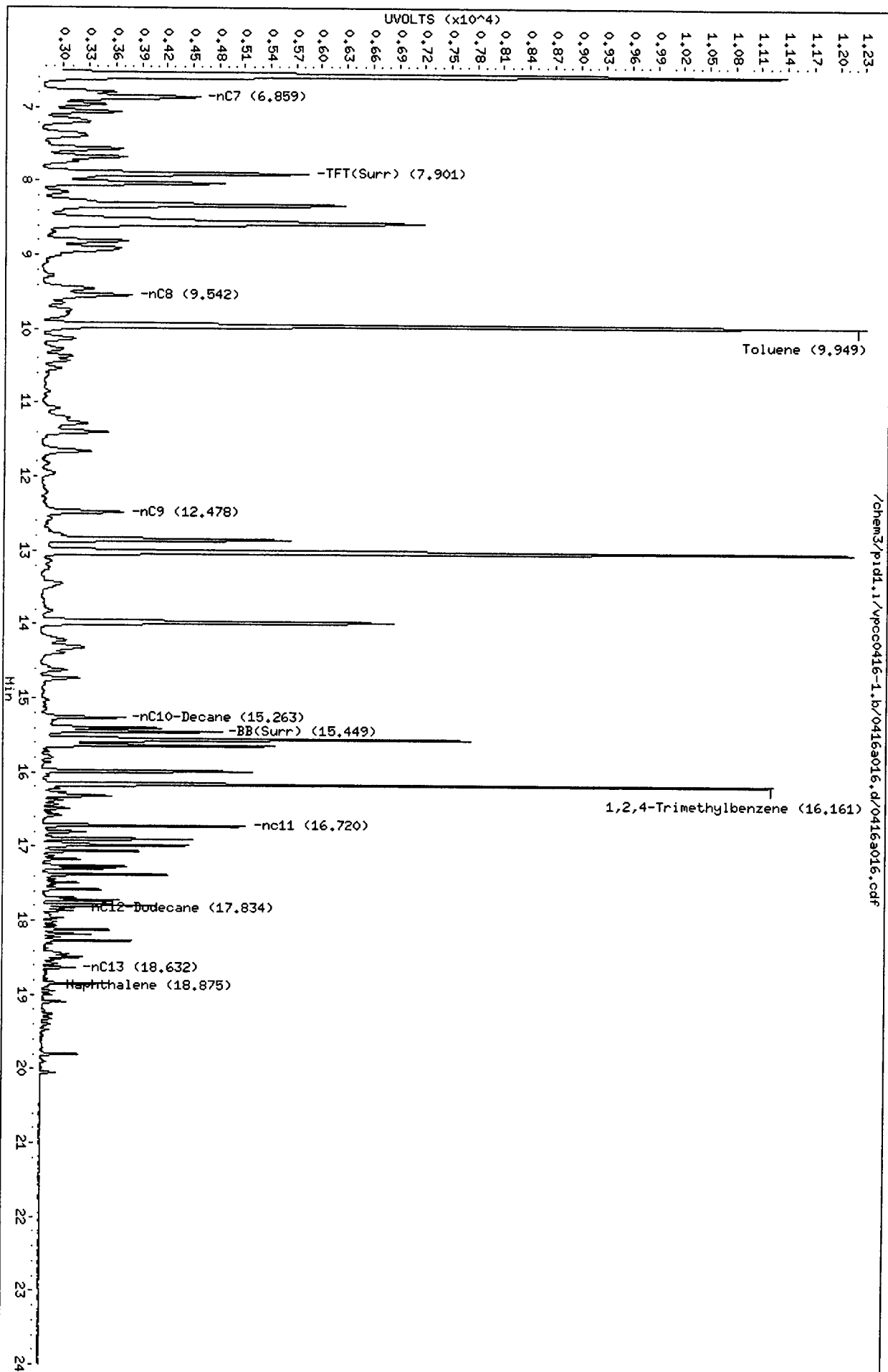
Client ID:
Sample Info: GAS 2.5

Column phase: RTX 502-2 FID

Instrument: pid1.i

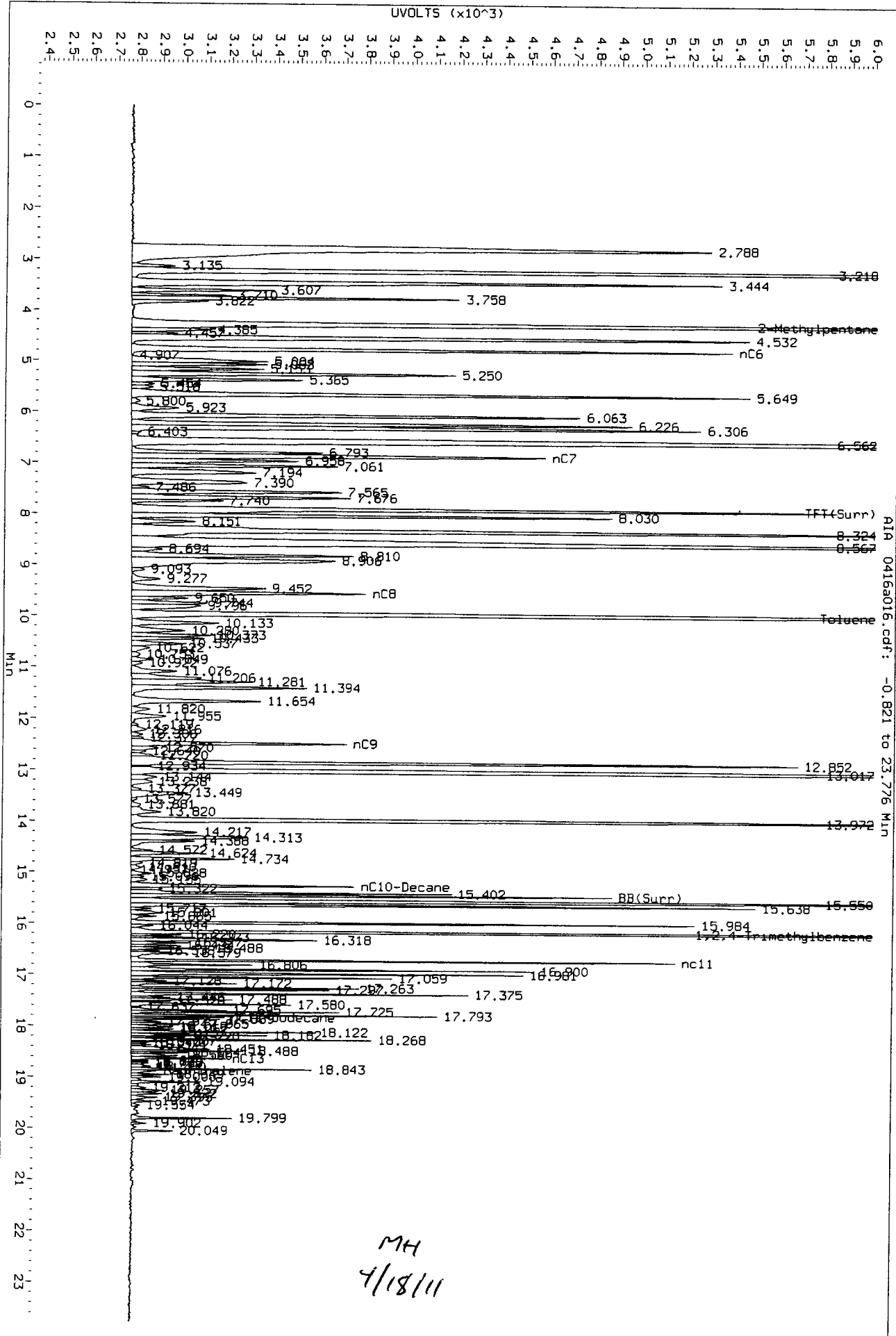
Operator: MH
Column diameter: 0.18

Page 1

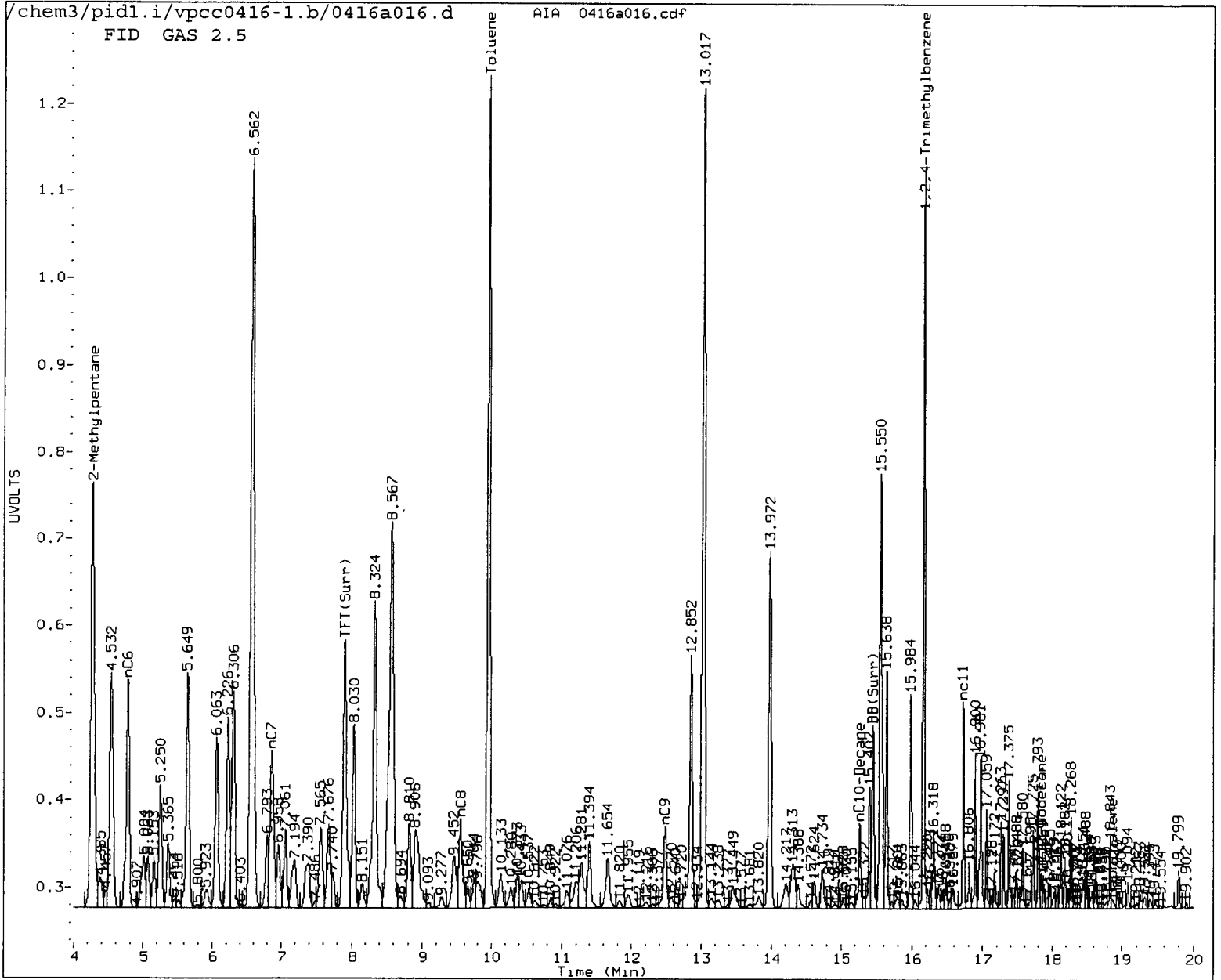


ST98 : 00970

Data File: /chem3/pidl.1/vpcc0416-1.b/0416a016.d/0416a016.cdf
Injection Date: 16-APR-2011 16:17
Instrument: pidl.1
Client Sample ID:



MH
4/18/11



MANUAL INTEGRATION

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

Analyst: MH Date: 4/18/11

MA
4/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0416-1.b/0416a017.d ARI ID: GAS 5
Data file 2: /chem3/pid1.i/vpcc0416-2.b/0416a017.d Client ID:
Method: /chem3/pid1.i/vpcc0416-2.b/PIDB.m Injection Date: 16-APR-2011 16:47
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.900	-0.003	3412	56035	120.6	TFT(Surr)
15.450	0.000	2226	20622	106.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.94)	374773	1721114	4.592
8015B 2MP-TMB (4.17 to 16.23)	747017	3429189	4.591 M
AK101 nC6-nC10 (4.67 to 15.17)	604063	2742657	4.540 M
NWTPHG Tol-Nap (9.85 to 18.95)	403422	1819633	4.510

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.900	-0.002	7158	109.9	TFT(Surr)
15.450	-0.001	14426	107.0	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.061	-0.001	7211	16.45	Benzene
9.950	0.000	74619	190.83	Toluene
12.852	-0.006	18578	54.39	Ethylbenzene
13.020	-0.006	74830	203.77	M/P-Xylene
13.973	-0.004	26653	93.07	O-Xylene
4.530	0.000	1424	8.39	MTBE

A Indicates Peak Area was used for quantitation instead of Height

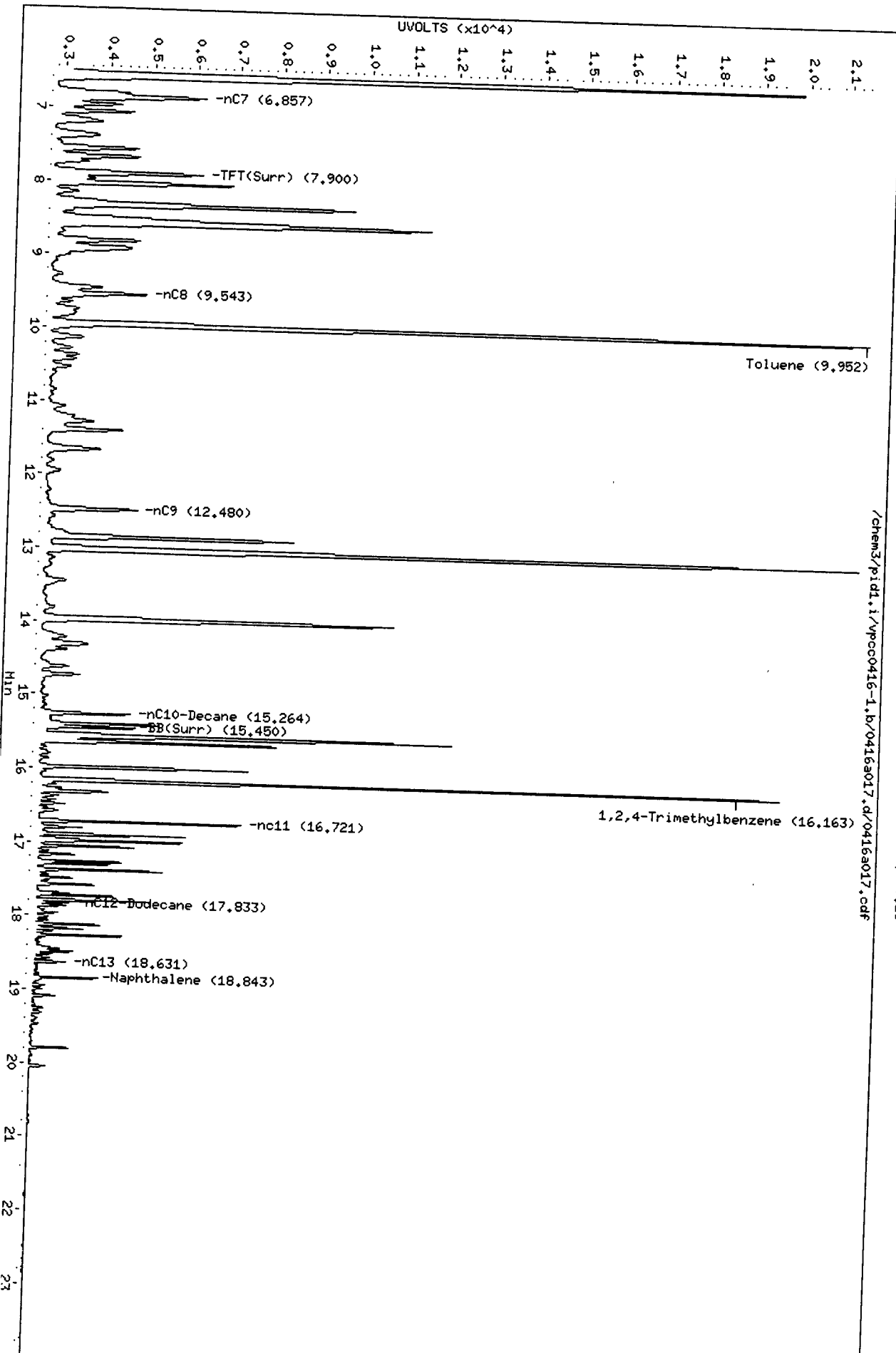
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0416-1.b/0416a017.d
Date: 16-APR-2011 16:47
Client ID:
Sample Info: GAS 5

Column phase: RTX 502-2 FID

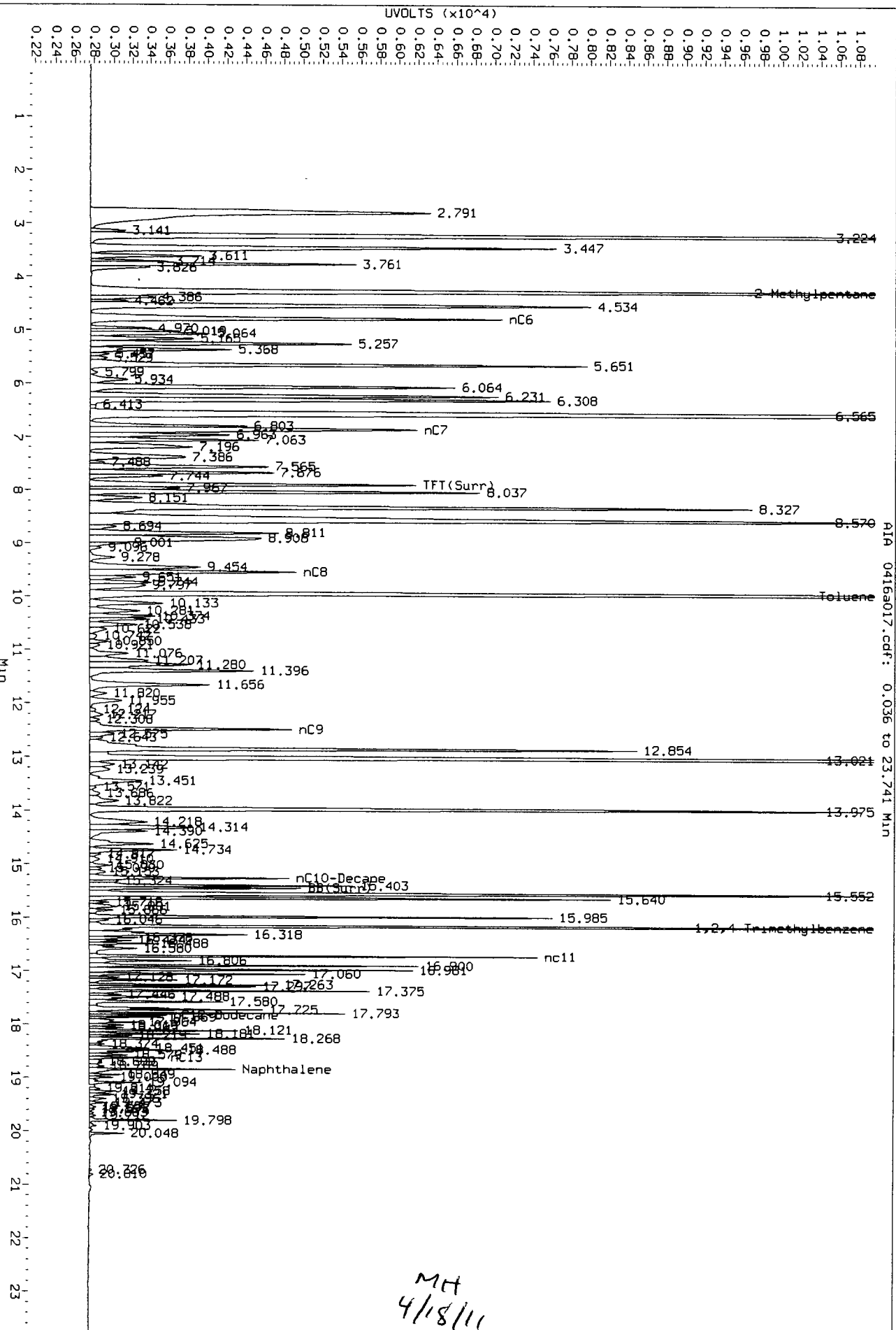
Instrument: pid1.1

Operator: HH
Column diameter: 0.18



/chem3/pid1.i/vpcc0416-1.b/0416a017.d/0416a017.cdf

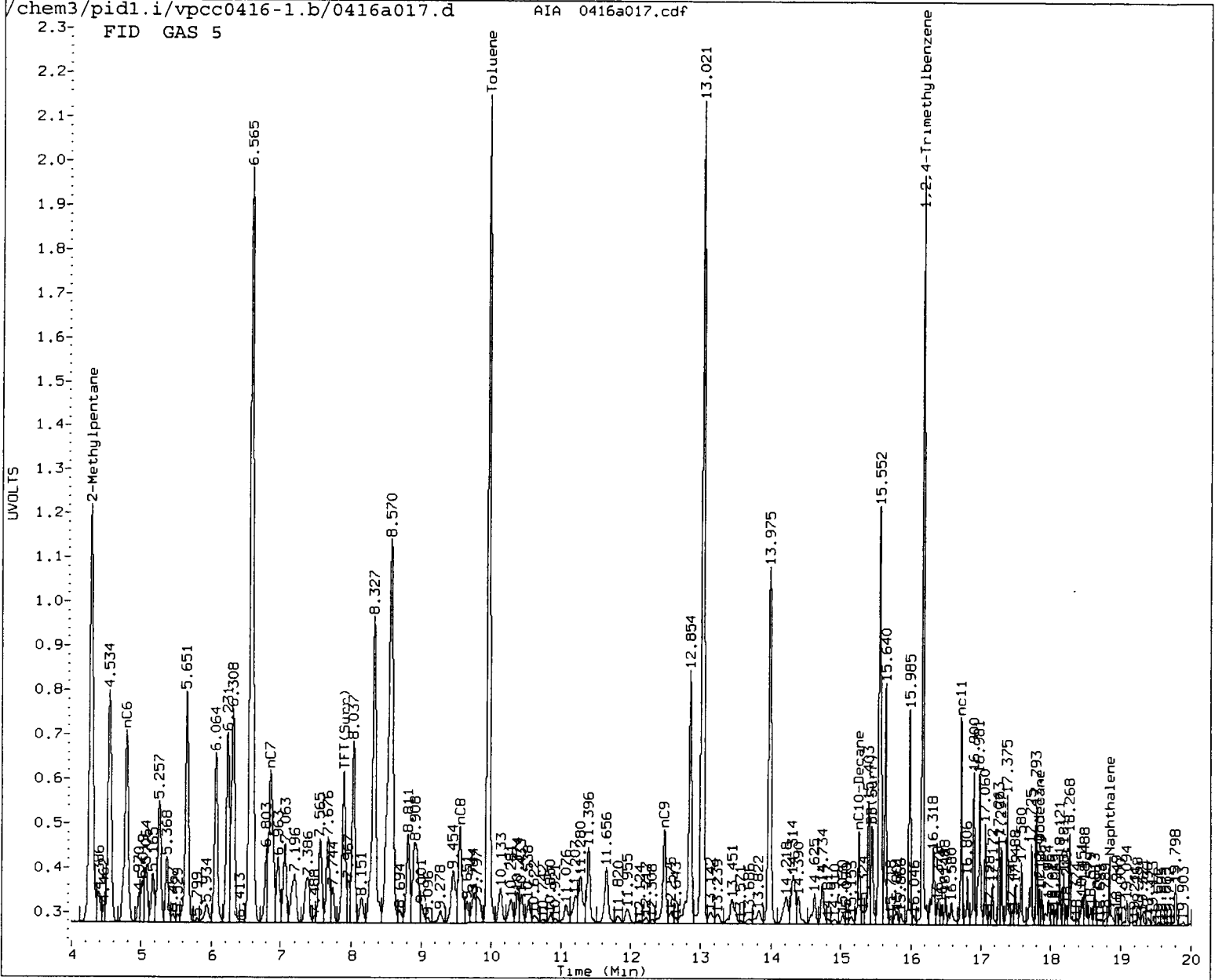
Data File: /chem3/pid1.1/vpcc0416-1.b/0416a017.d/0416a017.cdf
Injection Date: 16-APR-2011 15:47
Instrument: pid1.1
Client Sample ID:



AIA 0416a017.cdf: 0.036 to 23.741 Min

MT
4/18/11

2.3- FID GAS 5



MANUAL INTEGRATION

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

Analyst: MH

Date: 4/18/11

M4
4/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0416-1.b/0416a018.d ARI ID: GAS 20
Data file 2: /chem3/pid1.i/vpcc0416-2.b/0416a018.d Client ID:
Method: /chem3/pid1.i/vpcc0416-2.b/PIDB.m Injection Date: 16-APR-2011 17:16
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
ND	---	---	---	TFT (Surr)	
15.450	0.000	1985	15553	95.2	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.94)	374773	7197871	19.206 M
8015B 2MP-TMB (4.17 to 16.23)	747017	15056764	20.156 M
AK101 nC6-nC10 (4.67 to 15.17)	604063	12286971	20.341 M
NWTPHG Tol-Nap (9.85 to 18.95)	403422	7578599	18.786 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.896	-0.006	11999	184.2	TFT (Surr)
15.450	0.000	17429	129.3	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.067	0.005	28653	65.36	Benzene
9.964	0.014	283233	724.35	Toluene
12.862	0.004	74550	218.26	Ethylbenzene
13.043	0.018	274298	746.95	M/P-Xylene
13.987	0.009	106639	372.39	O-Xylene
4.537	0.006	5593	32.95	MTBE

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

Data File: /chem3/pid1.i/vpcc0416-1.b/0416s018.d
Date: 16-APR-2011 17:16

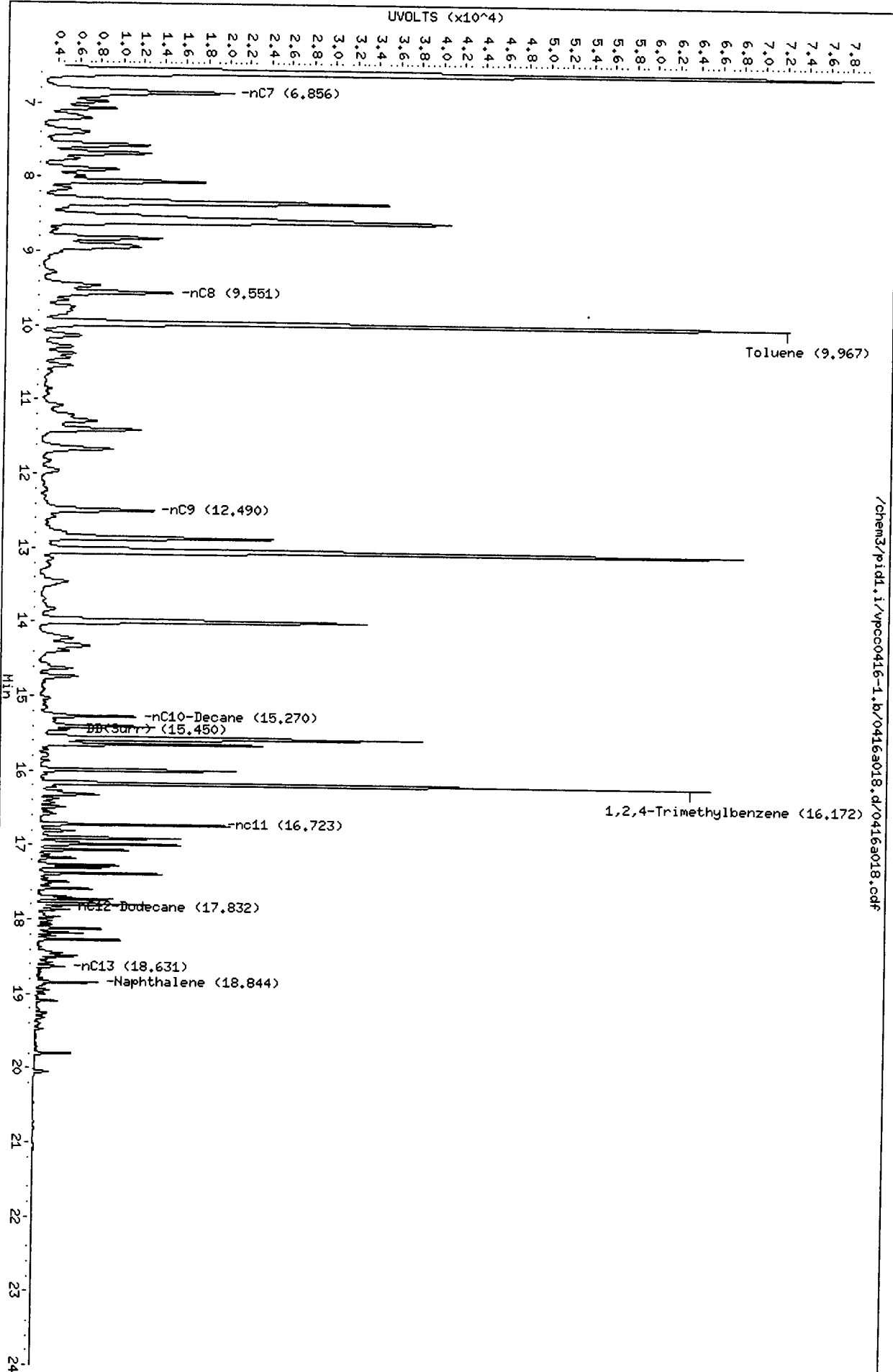
Client ID:
Sample Info: GAS 20

Column phase: RTX 502-2 FID

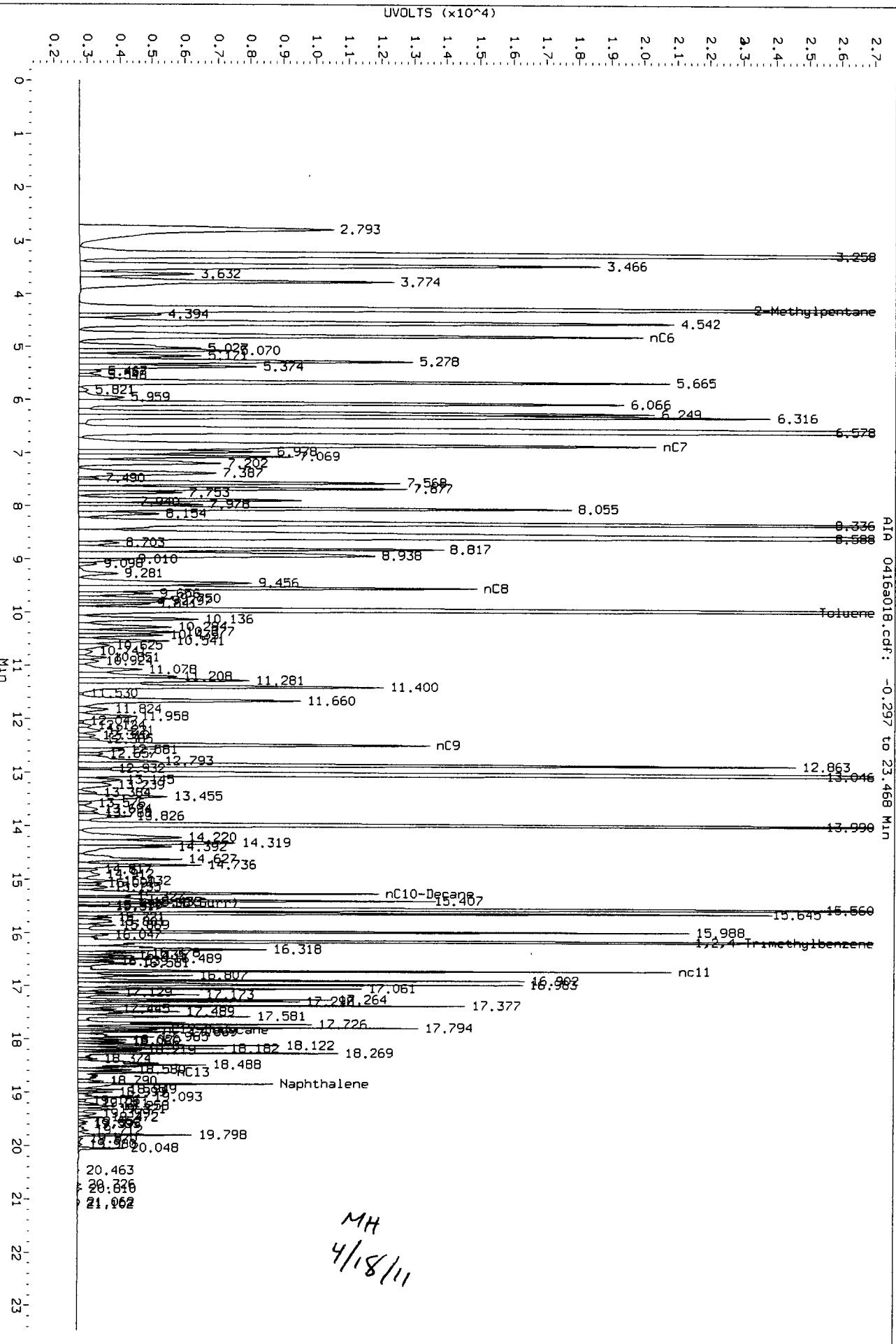
Instrument: pid1.i

Operator: MH
Column diameter: 0.18

/chem3/pid1.i/vpcc0416-1.b/0416s018.d/0416s018.cdf

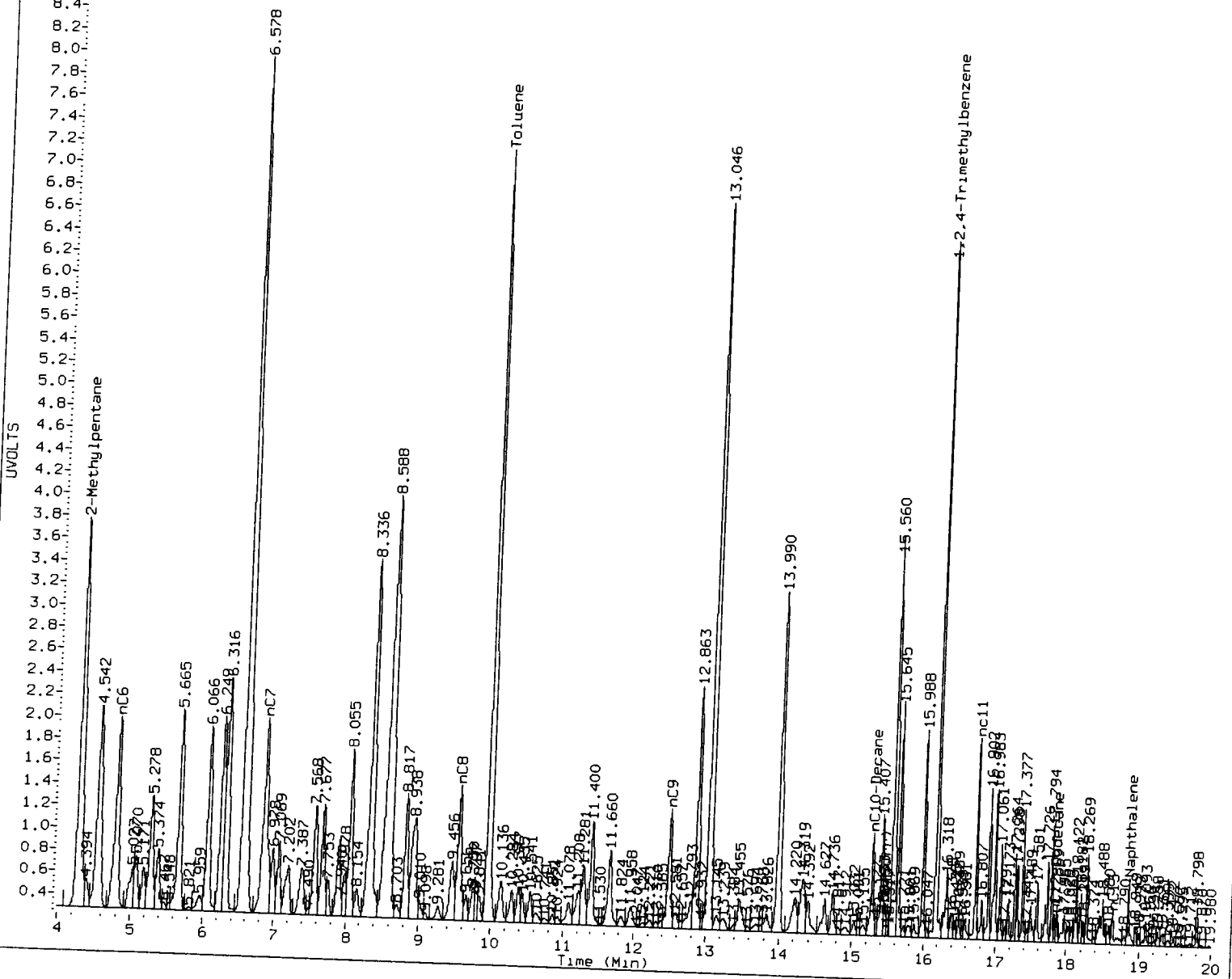


Data File: /chem3/pid1.1/vpcc0416-1.b/0416a018.d/0416a018.cdf
Injection Date: 16-APR-2011 17:16
Instrument: pid1.1
Client Sample ID:



A19 0416a018.cdf: -0.297 to 23.468 Min

FID GAS 20



MANUAL INTEGRATION

- Baseline correction
- 2. Poor chromatography
- 3. Peak not found
- 4. Totals calculation

5. Other _____

Analyst: MH

Date: 4/18/11

MH
4/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0416-1.b/0416a020.d ARI ID: GAS ICV
Data file 2: /chem3/pid1.i/vpcc0416-2.b/0416a020.d Client ID:
Method: /chem3/pid1.i/vpcc0416-2.b/PIDB.m Injection Date: 16-APR-2011 18:14
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.904	0.001	2756	42761	97.4	TFT (Surr)
15.450	0.000	2078	18061	99.6	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.94)	374773	1020774	2.724 M
8015B 2MP-TMB (4.17 to 16.23)	747017	1545334	2.069 M
AK101 nC6-nC10 (4.67 to 15.17)	604063	1168472	1.934 M
NWTPHG Tol-Nap (9.85 to 18.95)	403422	1058178	2.623 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.902	0.001	6301	96.8	TFT (Surr)
15.449	-0.001	13925	103.3	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.062	0.000	10567	24.10	Benzene
9.951	0.001	78751	201.40	Toluene
12.852	-0.006	14691	43.01	Ethylbenzene
13.018	-0.008	58588	159.54	M/P-Xylene
13.971	-0.006	19252	67.23	O-Xylene
4.530	0.000	697	4.11	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0416-1.b/0416a020.d

Date: 16-APR-2011 18:14

Client ID:

Sample Info: GAS ICV

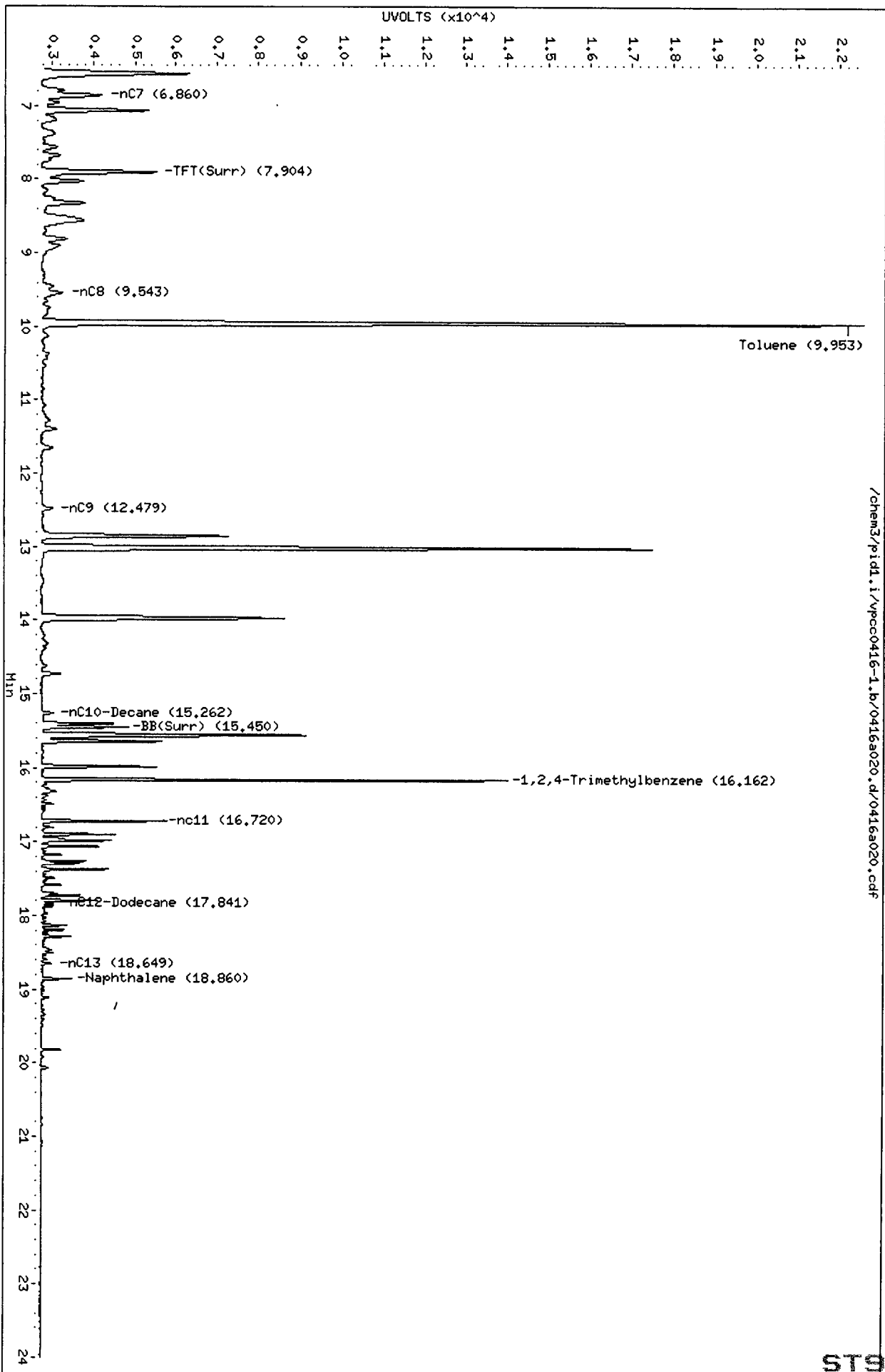
Column phase: RTX 502-2 FID

Instrument: pid1.i

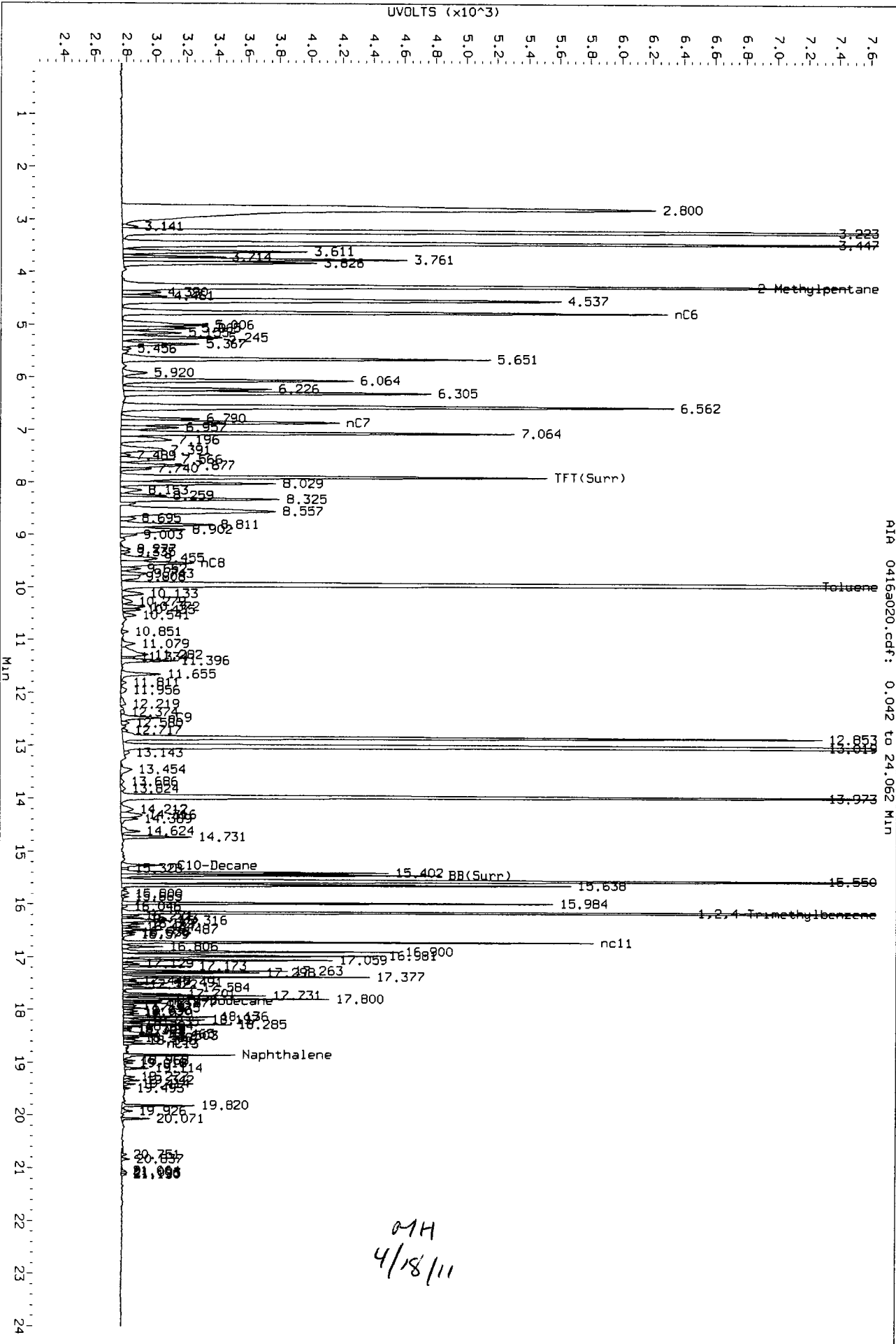
Operator: HH

Column diameter: 0.18

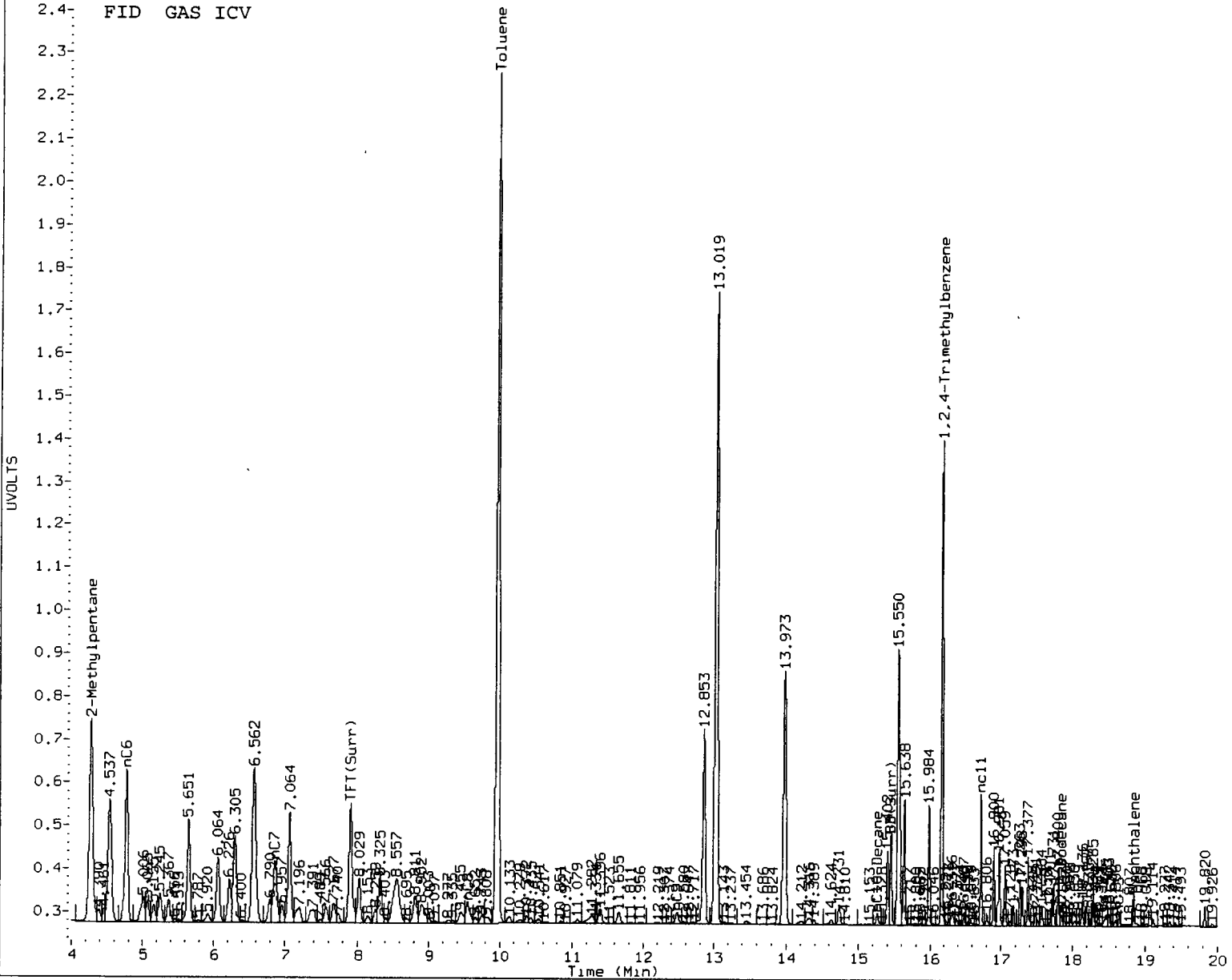
/chem3/pid1.i/vpcc0416-1.b/0416a020.d/0416a020.cdf



Data File: /chem3/pid1.1/vpcc0416-1.b/0416a020.d/0416a020.cdf
Injection Date: 16-APR-2011 18:14
Instrument: pid1.1
Client Sample ID:



MH
4/18/11



MANUAL INTEGRATION

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

Analyst: MH

Date: 4/18/11

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid1.i/vpcc0416-1.b/FID.m
Batch File: /chem3/pid1.i/vpcc0416-1.b
Inst ID: pid1.i

ID: RT01 RT02 RT03 RT04 RT05 RT06
FILENAME: 0416a013 0416a014 0416a015 0416a016 0416a017 0416a018
INJ.DATE: 16-APR-2011 16-APR-2011 16-APR-2011 16-APR-2011 16-APR-2011 16-APR-2011
INJ.TIME: 14:50 15:19 15:48 16:17 16:47 17:16

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC 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	4.242	4.245	4.258	4.266	4.270	4.280	4.269	4.199-4.339	4.260	0.015
2 nC6	4.753	4.757	4.765	4.771	4.781	4.794	4.770	4.700-4.840	4.770	0.015
3 nC7	6.861	6.861	6.863	6.859	6.857	6.856	6.856	6.786-6.926	6.860	0.002
4 TFT(Surr)	7.903	7.903	7.903	7.901	7.900	0.000	7.903	7.833-7.973	6.585	3.226
5 nC8	9.538	9.543	9.543	9.542	9.543	9.551	9.527	9.457-9.597	9.544	0.004
6 Toluene	9.948	9.948	9.949	9.949	9.952	9.967	9.952	9.882-10.022	9.952	0.007
7 nC9	12.482	12.477	12.477	12.478	12.480	12.490	12.483	12.413-12.553	12.481	0.005
22 BB(Surr)	+++++	+++++	+++++	+++++	+++++	+++++	16.027	15.957-16.097	+++++	+++++
8 nC10-Decane	15.266	15.263	15.262	15.263	15.264	15.270	15.265	15.195-15.335	15.265	0.003
9 BB(Surr)	15.450	15.450	15.449	15.449	15.450	15.450	15.450	15.380-15.520	15.450	0.000
10 1,2,4-Trimethylbenzene	16.161	16.161	16.160	16.161	16.163	16.172	16.125	16.055-16.195	16.163	0.004
11 nC11	16.753	16.721	16.720	16.720	16.721	16.723	16.759	16.689-16.829	16.726	0.013
12 nC12-Dodecane	17.836	17.836	17.840	17.834	17.833	17.832	17.837	17.767-17.907	17.835	0.003

cut due to separation.

Reviewer 1 MH Date: 4/18/11
Reviewer 2 _____ Date: _____

MH

000085

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2011 10:27
 End Cal Date : 16-APR-2011 13:22
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem3/pid1.i/vpcc0416-2.b/PIDB.m
 Cal Date : 18-Apr-2011 05:11 monicah
 Curve Type : Average

Calibration File Names:

Level 1: /chem3/pid1.i/vpcc0416-2.b/0416a004.d/0416a004.cdf
 Level 2: /chem3/pid1.i/vpcc0416-2.b/0416a005.d/0416a005.cdf
 Level 3: /chem3/pid1.i/vpcc0416-2.b/0416a006.d/0416a006.cdf
 Level 4: /chem3/pid1.i/vpcc0416-2.b/0416a007.d/0416a007.cdf
 Level 5: /chem3/pid1.i/vpcc0416-2.b/0416a008.d
 Level 6: /chem3/pid1.i/vpcc0416-2.b/0416a009.d/0416a009.cdf
 Level 7: /chem3/pid1.i/vpcc0416-2.b/0416a010.d/0416a010.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	148 173	166	172	178	177	174	170	6.118
2 Benzene	524 397	488	441	415	406	398	438	11.305
4 Toluene	412 377	408	378	389	387	386	391	3.521
15 Chlorobenzene	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <
5 Ethylbenzene	352 334	340	331	350	345	340	342	2.265
6 M/P-Xylene	376 360	364	353	374	372	372	367	2.344

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2011 10:27
 End Cal Date : 16-APR-2011 13:22
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem3/pid1.i/vpcc0416-2.b/PIDB.m
 Cal Date : 18-Apr-2011 05:11 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	260 296	270	284	300	298	297	286	5.518
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 TPT(Surr)	69.36364 63.05000	66.95455	62.01493	64.69000	64.92481	64.88202	65.12571	3.739
\$ 19 BFB(Surr)	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
\$ 8 BB(Surr)	138 134	135	127	134	136	138	135	2.699

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2011 10:27
 End Cal Date : 16-APR-2011 13:22
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem3/pid1.i/vpcc0416-1.b/FID.m
 Cal Date : 18-Apr-2011 05:23 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)	31.27273 26.40500	29.79545	27.23881	28.27000	27.63910	27.41011	28.29017	5.953
\$ 22 BFB(Surr)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
\$ 9 BB(Surr)	22.59091 19.74500	21.52273	20.02985	21.00000	20.45113	20.64607	20.85510	4.632

MH
4/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pidl.i/vpcc0416-1.b/0416a004.d ARI ID: BETX .25
Data file 2: /chem3/pidl.i/vpcc0416-2.b/0416a004.d Client ID:
Method: /chem3/pidl.i/vpcc0416-2.b/PIDB.m Injection Date: 16-APR-2011 10:27
Instrument: pidl.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	-----	----	-----
7.903	0.000	688	9351	24.3	TFT(Surr)
15.450	0.000	497	4134	23.8	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (9.85 to 17.94)	374773	16938	0.045 M
8015B 2MP-TMB (4.17 to 16.23)	747017	10607	0.014 M
AK101 nC6-nC10 (4.67 to 15.17)	604063	7824	0.013 M
NWTPHG Tol-Nap (9.85 to 18.95)	403422	23346	0.058 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
7.903	0.002	1526	23.4	TFT(Surr)
15.450	0.000	3047	22.6	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.053	-0.008	131	0.30N	Benzene
9.947	-0.003	103	0.26N	Toluene
12.850	-0.008	88	0.26N	Ethylbenzene
13.013	-0.012	188	0.51N	M/P-Xylene
13.970	-0.008	65	0.23N	O-Xylene
4.527	-0.004	37	0.22N	MTBE

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

Data File: /chem3/pid1.i/vpcc0416-1.b/0416a004.d
Date : 16-APR-2014 10:27

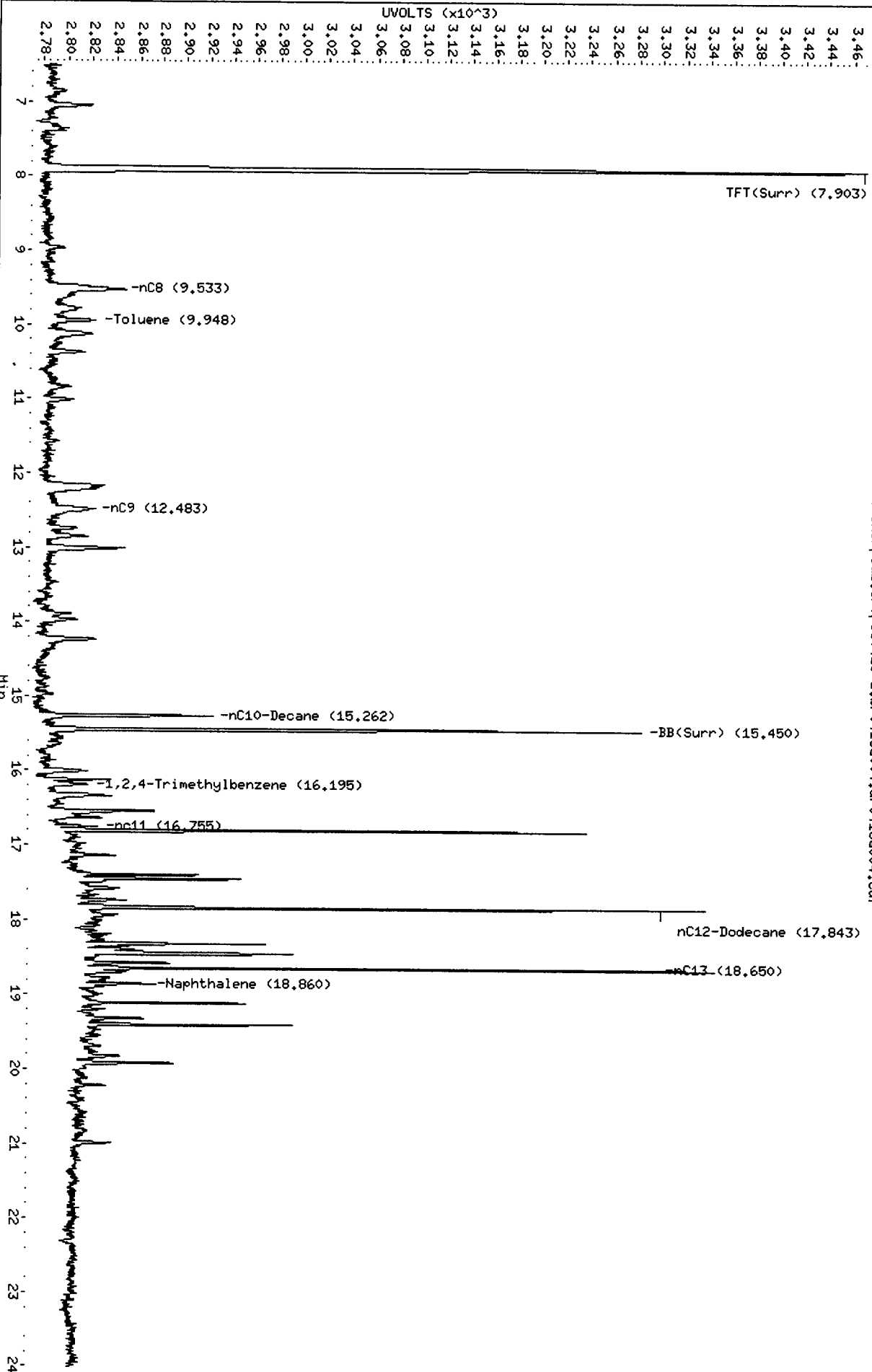
Client ID:
Sample Info: BETX .25

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH
Column diameter: 0.18

/chem3/pid1.i/vpcc0416-1.b/0416a004.d/0416a004.cdf



Data File: /chem3/pid1.1/vpcc0416-2.b/0416a004.d

Date: 16-APR-2011 10:27

Client ID:

Sample Info: BETX .25

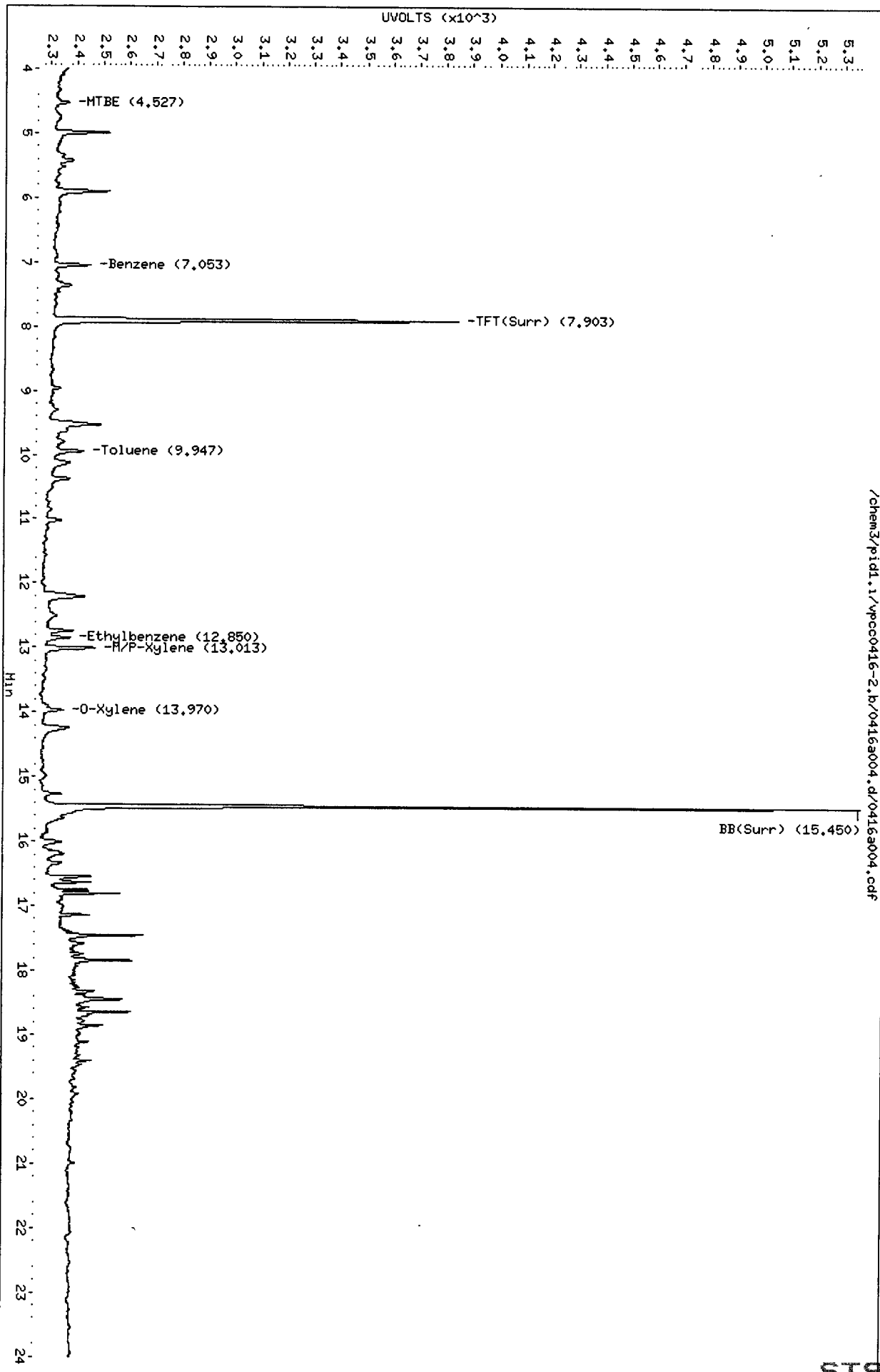
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

/chem3/pid1.1/vpcc0416-2.b/0416a004.d/0416a004.cdf



MH
4/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0416-1.b/0416a005.d ARI ID: BETX .5
Data file 2: /chem3/pid1.i/vpcc0416-2.b/0416a005.d Client ID:
Method: /chem3/pid1.i/vpcc0416-2.b/PIDB.m Injection Date: 16-APR-2011 10:56
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	-----	-----	-----
7.903	0.000	1311	17666	46.3	TFT(Surr)
15.450	0.000	947	7848	45.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (9.85 to 17.94)	374773	15132	0.040 M
8015B 2MP-TMB (4.17 to 16.23)	747017	10419	0.014 M
AK101 nC6-nC10 (4.67 to 15.17)	604063	9266	0.015 M
NWTPHG Tol-Nap (9.85 to 18.95)	403422	20842	0.052 M

M Indicates manual integration within range

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

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	-----	-----
7.903	0.002	2946	45.2	TFT(Surr)
15.450	0.000	5945	44.1	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.050	-0.011	244	0.56N	Benzene
9.947	-0.003	204	0.52N	Toluene
12.850	-0.008	170	0.50	Ethylbenzene
13.012	-0.014	364	0.99	M/P-Xylene
13.967	-0.011	135	0.47N	O-Xylene
4.533	0.003	83	0.49N	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

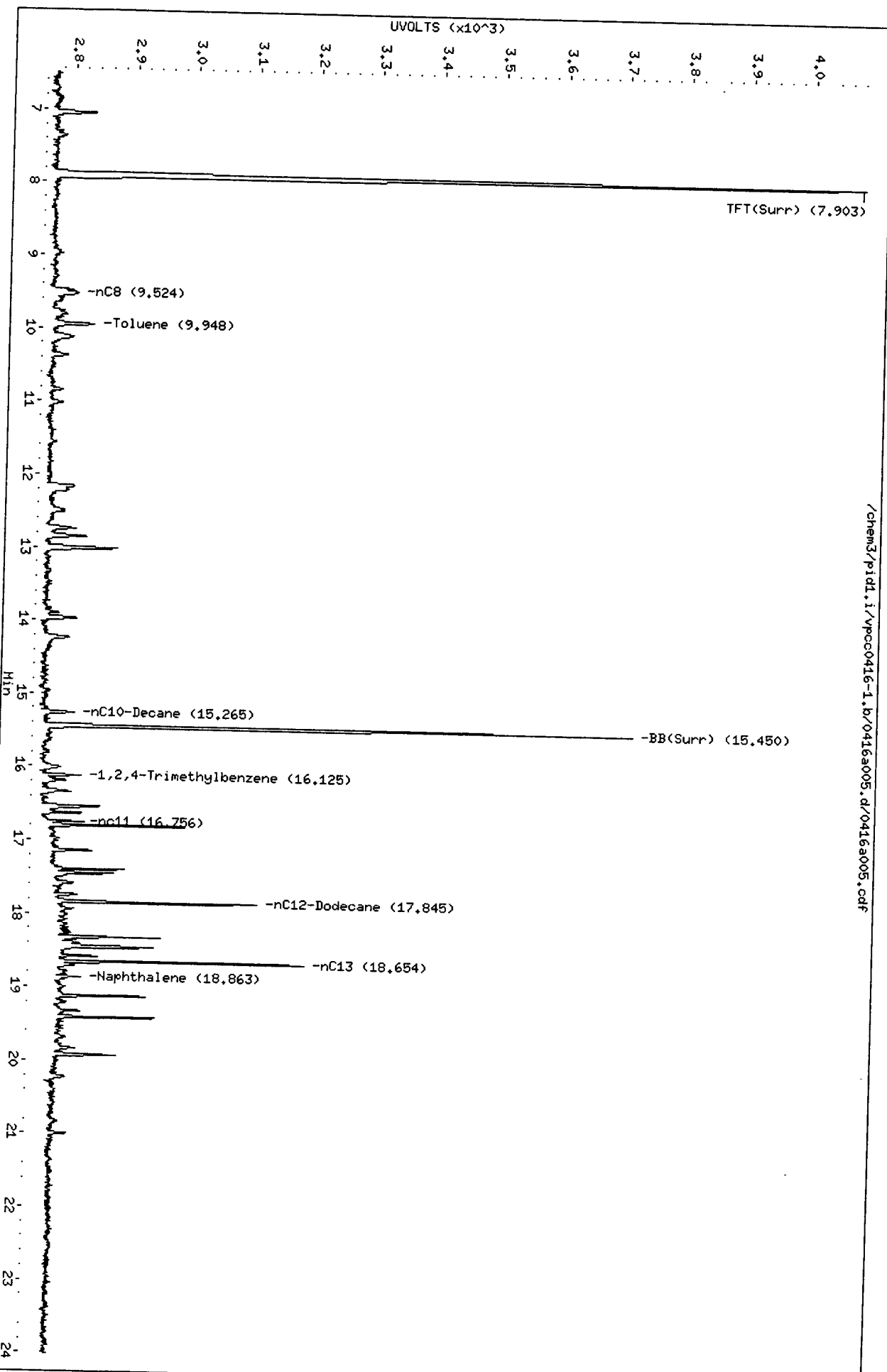
Data File: /chem3/pid1.i/vpcc0416-1.b/0416a005.d
Date: 16-APR-2011 10:56
Client ID:
Sample Info: BETX .5

Column phase: RTX 502-2 FID

Operator: MH
Column diameter: 0.18

Instrument: pid1.i

Page 1



/chem3/pid1.i/vpcc0416-1.b/0416a005.d/0416a005.cdf

ST98 : 00993

Data File: /chem3/pid1.i/vpcc0416-2.b/0416a005.d

Date: 16-APR-2011 10:56

Client ID:

Sample Info: BETX .5

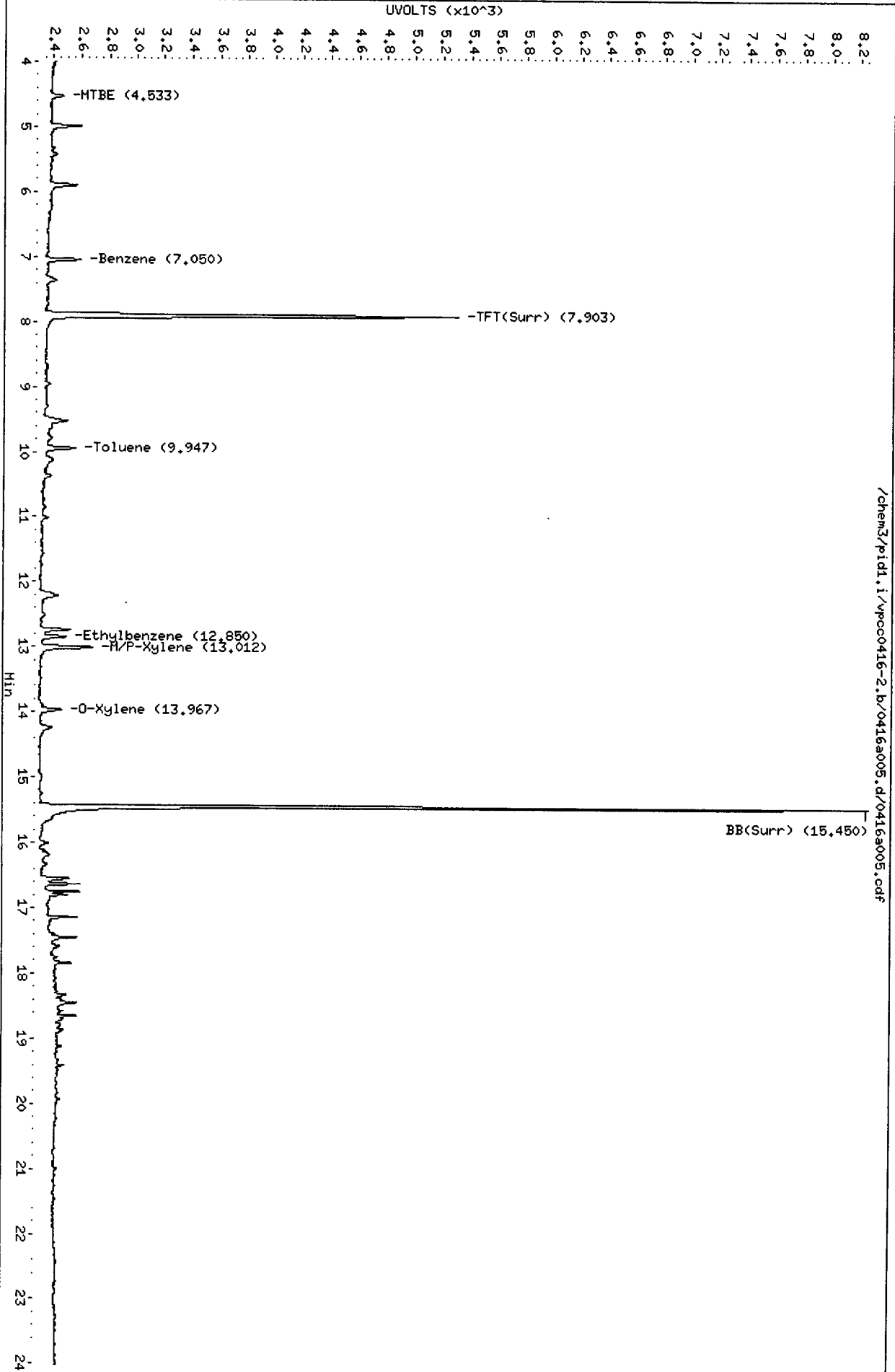
Column phase: RTX 502-2 PID

Instrument: pid1.1

Operator: HH

Column diameter: 0.18

/chem3/pid1.i/vpcc0416-2.b/0416a005.d/0416a005.cdf



MH
4/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0416-1.b/0416a006.d ARI ID: BETX 5
Data file 2: /chem3/pid1.i/vpcc0416-2.b/0416a006.d Client ID:
Method: /chem3/pid1.i/vpcc0416-2.b/PIDB.m Injection Date: 16-APR-2011 11:26
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	-----	-----	-----
7.903	0.000	1825	24761	64.5	TFT(Surr)
15.450	0.000	1342	11132	64.3	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	-----	-----	-----
WAGas Tol-C12 (9.85 to 17.94)	374773	58606	0.156
8015B 2MP-TMB (4.17 to 16.23)	747017	54443	0.073
AK101 nC6-nC10 (4.67 to 15.17)	604063	49754	0.082
NWTPHG Tol-Nap (9.85 to 18.95)	403422	63476	0.157

M Indicates manual integration within range

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

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	-----	-----
7.900	-0.002	4155	63.8	TFT(Surr)
15.450	0.000	8542	63.4	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.050	-0.011	2204	5.03N	Benzene
9.947	-0.003	1890	4.83N	Toluene
12.851	-0.007	1655	4.85	Ethylbenzene
13.011	-0.014	3528	9.61	M/P-Xylene
13.970	-0.007	1418	4.95	O-Xylene
4.530	0.000	861	5.07N	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

MH
4/18/11

Data File: /chem3/pid1.i/vpcc0416-1.b/0416a006.d

Date: 16-APR-2011 11:26

Client ID:

Sample Info: BETX 5

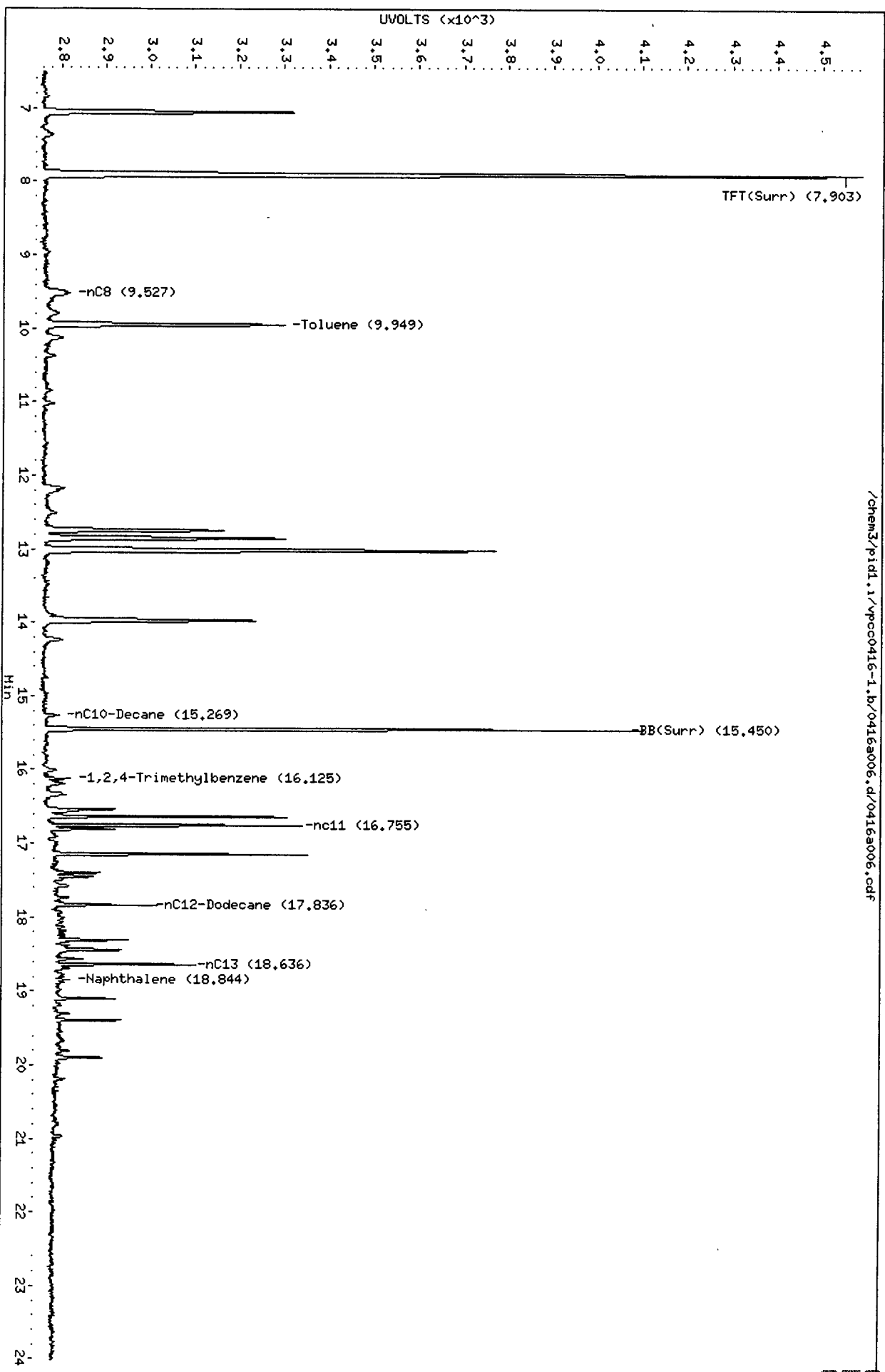
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

/chem3/pid1.i/vpcc0416-1.b/0416a006.d/0416a006.cdf



Data File: /chem3/pid1.1/vpcc0416-2.b/0416a006.d

Date: 16-APR-2011 11:26

Client ID:

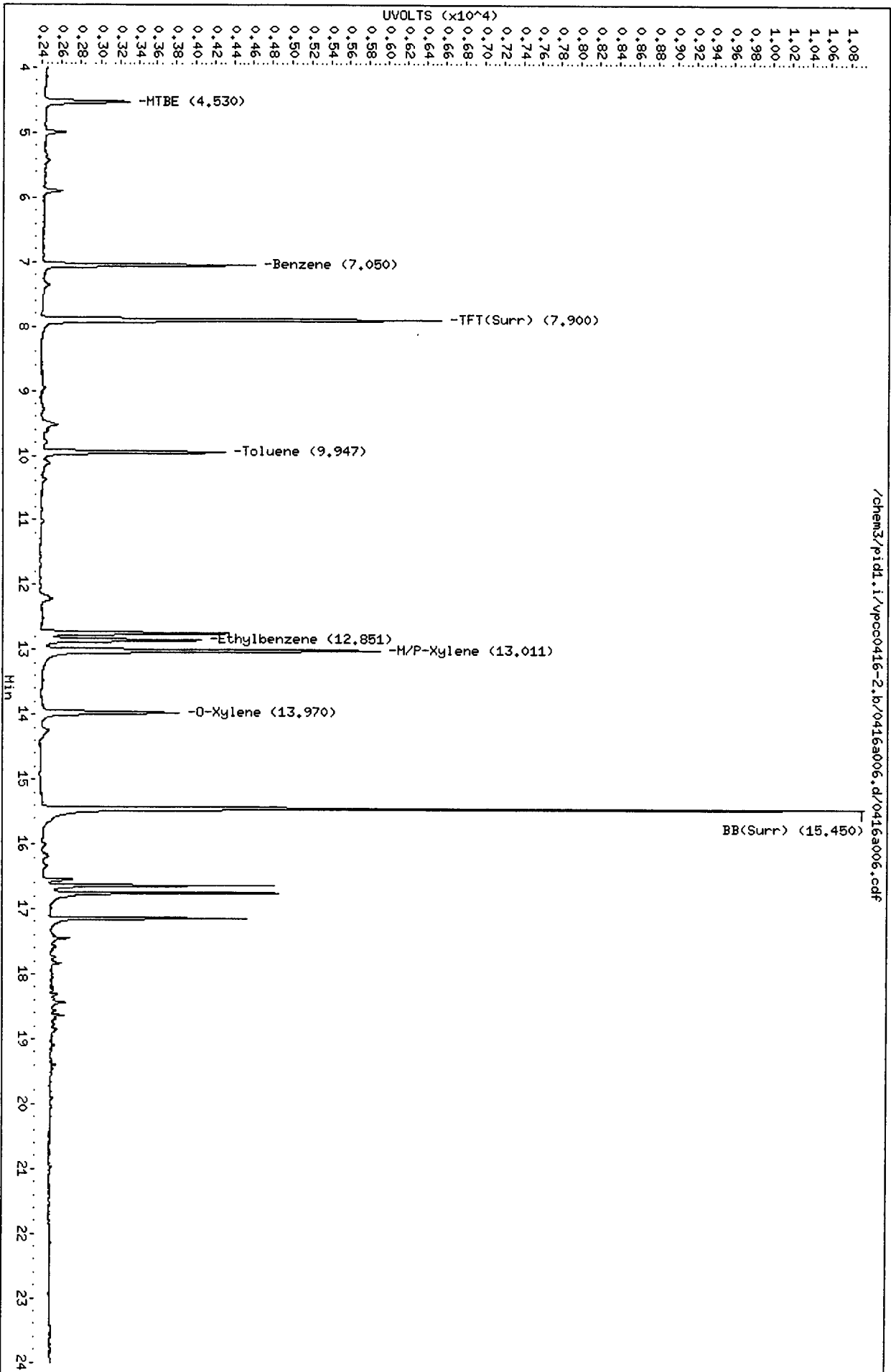
Sample Info: BETX 5

Column phase: RTX 502-2 PID

Instrument: pid1.1

Operator: HH

Column diameter: 0.18



23H
4/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0416-1.b/0416a007.d ARI ID: BETX 25
 Data file 2: /chem3/pid1.i/vpcc0416-2.b/0416a007.d Client ID:
 Method: /chem3/pid1.i/vpcc0416-2.b/PIDB.m Injection Date: 16-APR-2011 11:55
 Instrument: pid1.i Matrix: WATER
 Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
 BETX Ical Date: 16-APR-2011

=====

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	-----	----	-----
7.903	0.000	2827	38759	99.9	TFT(Surr)
15.449	-0.001	2100	17338	100.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (9.85 to 17.94)	374773	253075	0.675
8015B 2MP-TMB (4.17 to 16.23)	747017	247048	0.331
AK101 nC6-nC10 (4.67 to 15.17)	604063	226561	0.375
NWTPHG Tol-Nap (9.85 to 18.95)	403422	257190	0.638

M Indicates manual integration within range

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

=====

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
7.900	-0.002	6469	99.3	TFT(Surr)
15.450	0.000	13448	99.8	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.053	-0.008	10368	23.65N	Benzene
9.947	-0.003	9730	24.88N	Toluene
12.851	-0.008	8739	25.59	Ethylbenzene
13.012	-0.013	18703	50.93	M/P-Xylene
13.970	-0.008	7502	26.20N	O-Xylene
4.527	-0.004	4461	26.28N	MTBE

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

Data File: /chem3/pid1.i/vpcc0416-1.b/0416a007.d

Date: 16-APR-2011 11:55

Client ID:

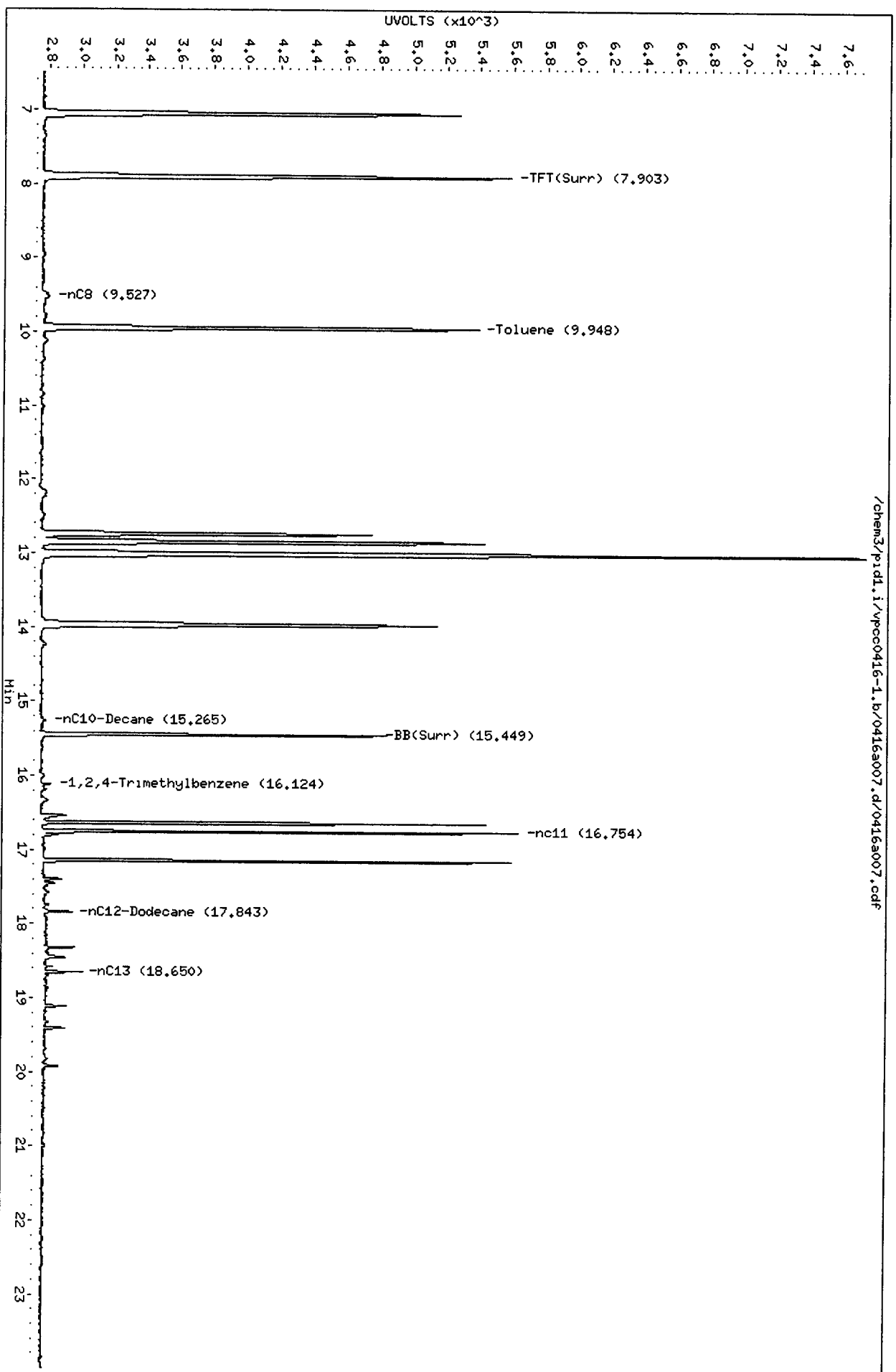
Sample Info: BETX 25

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

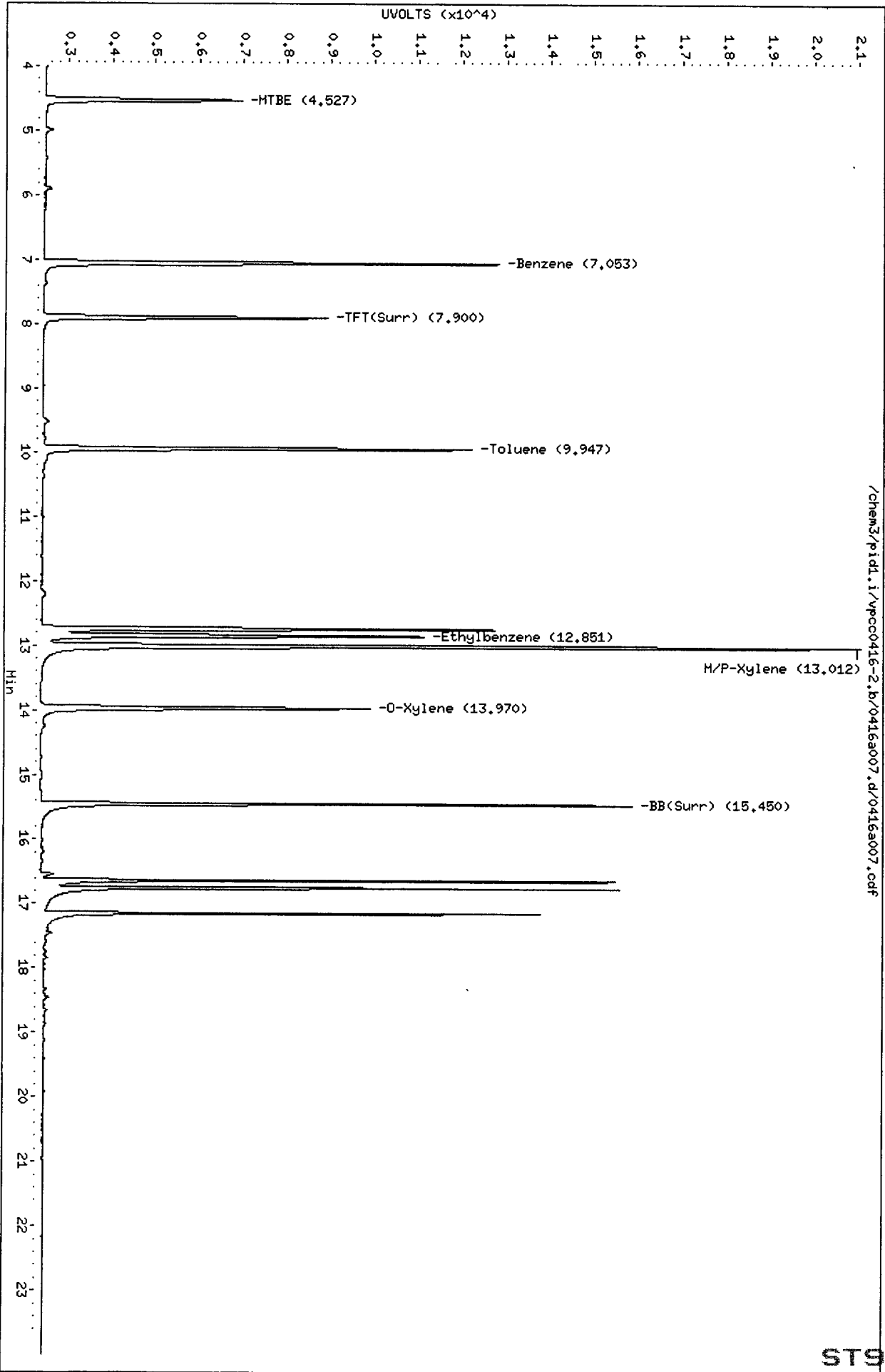


/chem3/pid1.i/vpcc0416-1.b/0416a007.d/0416a007.cdf

Data File: /chem3/pid1.i/vpcc0416-2.b/0416a007.d
Date: 16-APR-2011 11:55
Client ID:
Sample Info: BETX 25

Column phase: RTX 502-2 PID

Instrument: pid1.i
Operator: HH
Column diameter: 0.18



/chem3/pid1.i/vpcc0416-2.b/0416a007.d/0416a007.cdf

MH
4/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0416-1.b/0416a008.d ARI ID: BETX 50
Data file 2: /chem3/pid1.i/vpcc0416-2.b/0416a008.d Client ID:
Method: /chem3/pid1.i/vpcc0416-2.b/PIDB.m Injection Date: 16-APR-2011 12:24
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	-----	----	-----
7.905	0.001	3676	50314	129.9	TFT(Surr)
15.449	-0.001	2720	22778	130.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.94)	374773	473088	1.262
8015B 2MP-TMB (4.17 to 16.23)	747017	469500	0.628
AK101 nC6-nC10 (4.67 to 15.17)	604063	433539	0.718
NWTPHG Tol-Nap (9.85 to 18.95)	403422	475864	1.180

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
7.903	0.001	8635	132.6	TFT(Surr)
15.449	-0.001	18039	133.8	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.058	-0.003	20297	46.30	Benzene
9.948	-0.002	19342	49.47	Toluene
12.851	-0.007	17231	50.45	Ethylbenzene
13.013	-0.012	37198	101.30	M/P-Xylene
13.970	-0.007	14916	52.09	O-Xylene
4.530	0.000	8842	52.08	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0416-1.b/0416a008.d
Date: 16-APR-2011 12:24

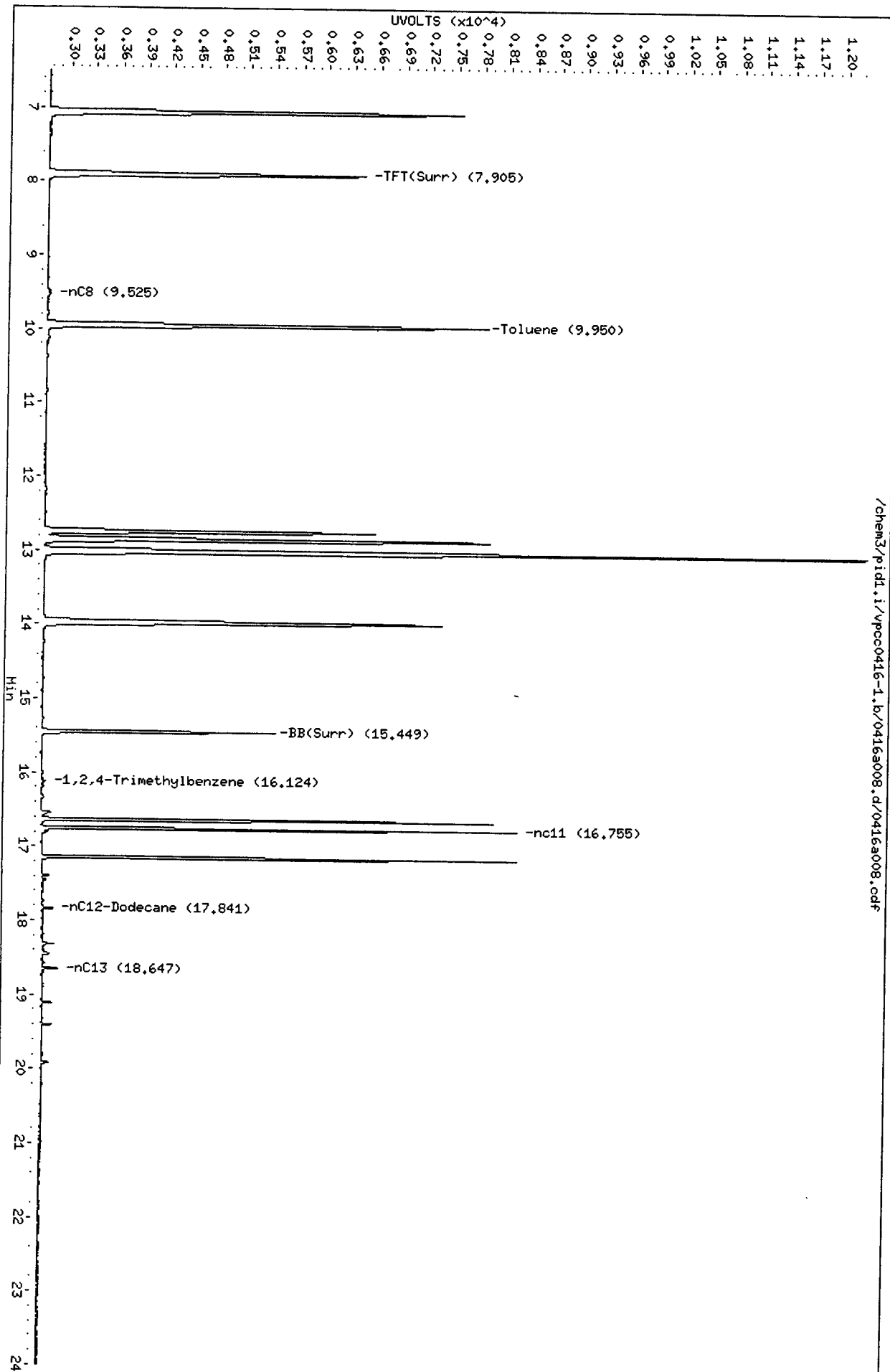
Client ID:
Sample Info: BETX 50

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH
Column diameter: 0.18

Page 1



ST98 : 01002

Data File: /chem3/pid1.i/vpcc0416-2.b/0416a008.d
Date: 16-APR-2011 12:24
Client ID:
Sample Info: BETX 50

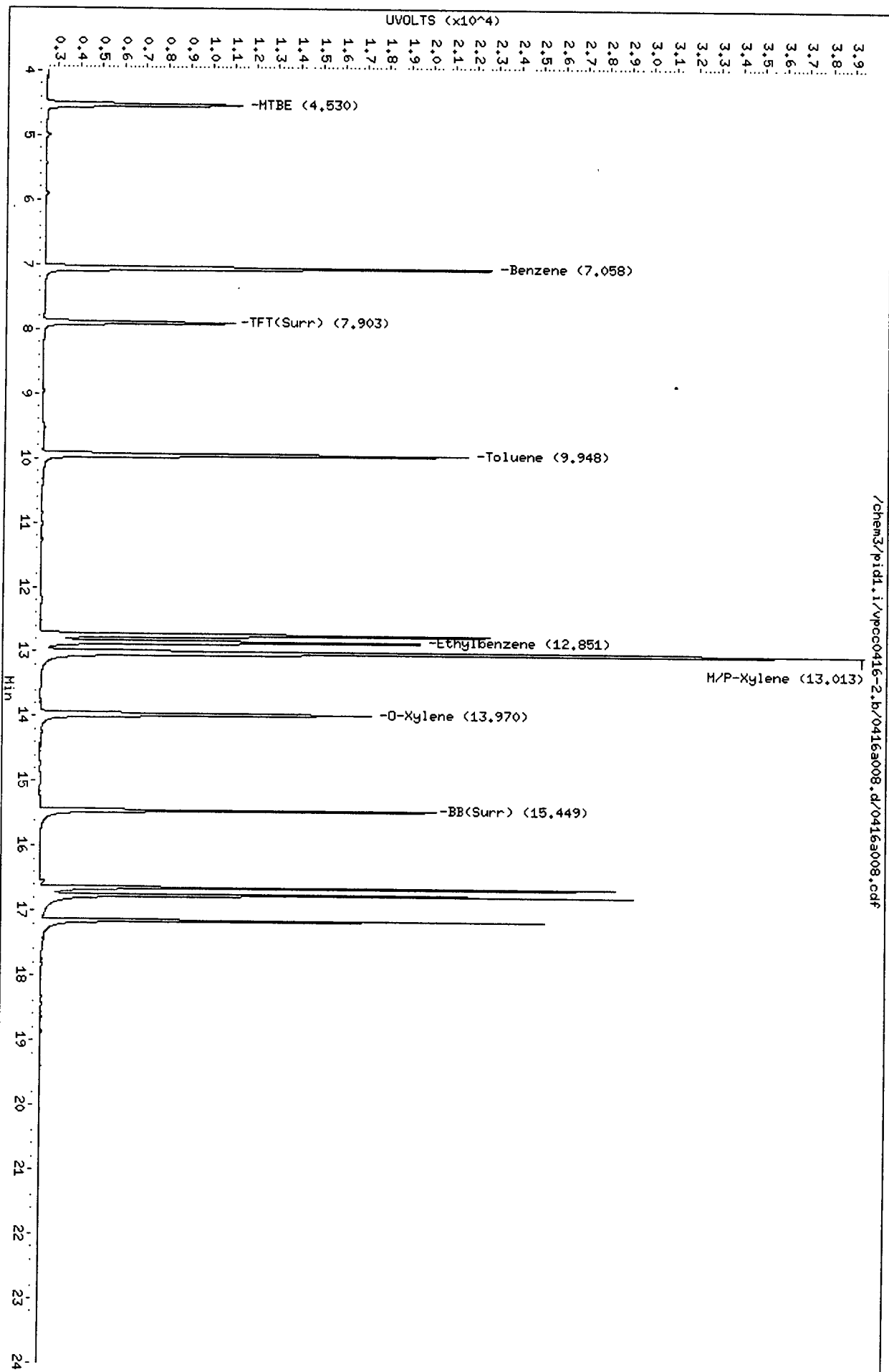
Instrument: pid1.1

Page 1

Column phase: RTX 502-2 PID

Operator: HH
Column diameter: 0.18

/chem3/pid1.i/vpcc0416-2.b/0416a008.d/0416a008.cdf



ST98 : 01003

MA
4/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0416-1.b/0416a009.d ARI ID: BETX 100
Data file 2: /chem3/pid1.i/vpcc0416-2.b/0416a009.d Client ID:
Method: /chem3/pid1.i/vpcc0416-2.b/PIDB.m Injection Date: 16-APR-2011 12:53
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.905	0.001	4879	66504	172.5	TFT (Surr)
15.451	0.001	3675	30850	176.2	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.94)	374773	907784	2.422
8015B 2MP-TMB (4.17 to 16.23)	747017	902434	1.208
AK101 nC6-nC10 (4.67 to 15.17)	604063	832432	1.378
NWTPHG Tol-Nap (9.85 to 18.95)	403422	910944	2.258

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.903	0.001	11549	177.3	TFT (Surr)
15.451	0.000	24587	182.4	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.061	-0.001	39795	90.78	Benzene
9.949	-0.001	38591	98.69	Toluene
12.855	-0.003	33997	99.53	Ethylbenzene
13.019	-0.007	74404	202.61	M/P-Xylene
13.973	-0.004	29669	103.61N	O-Xylene
4.530	0.000	17418	102.60	MTBE

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

Data File: /chem3/pid1.i/vpcc0416-1.b/0416a009.d
Date: 16-APR-2011 12:53

Client ID:

Sample Info: BETX 100

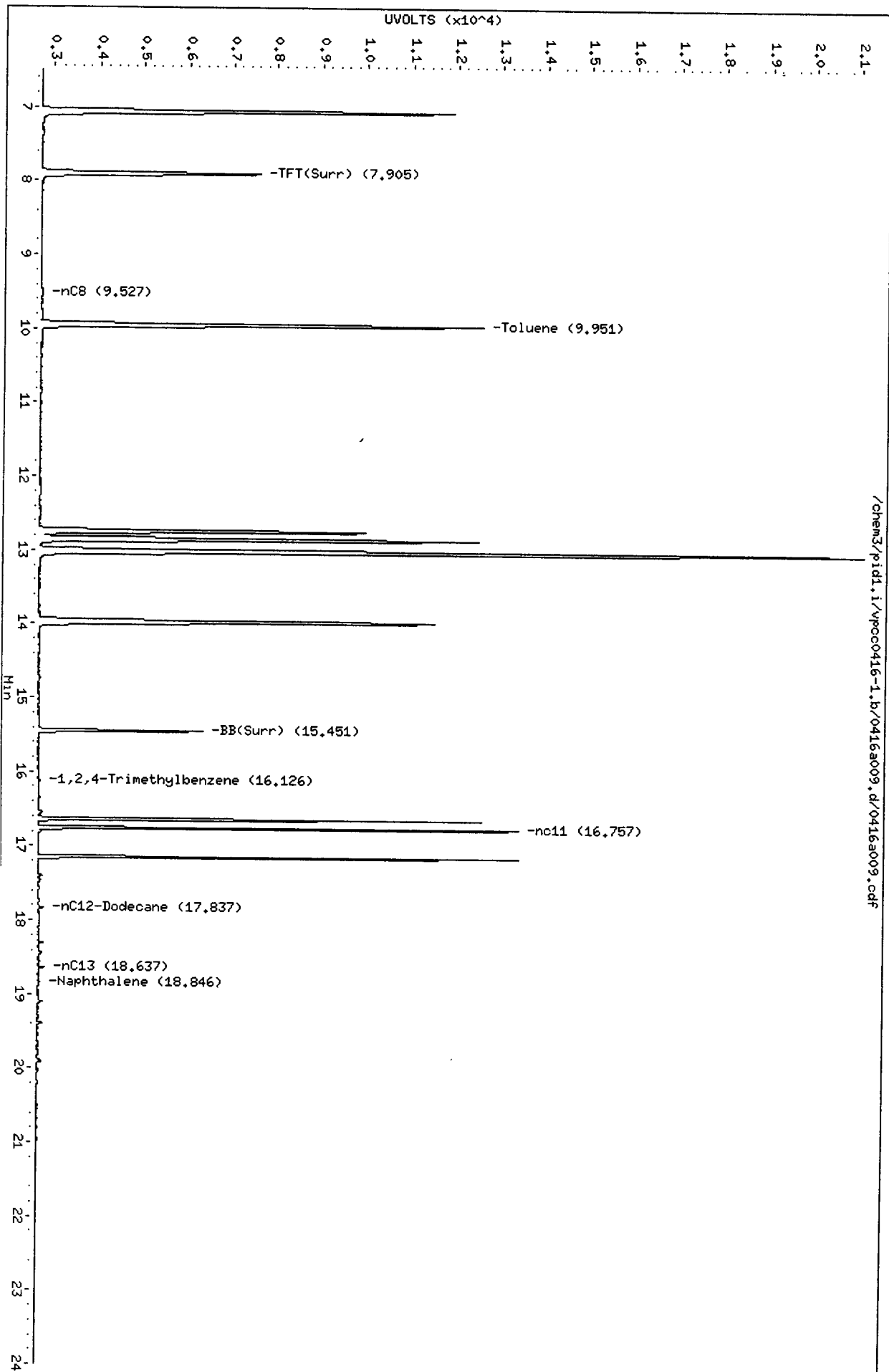
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

Page 1



ST98:01005

Data File: /chem3/pid1.i/vpcc0416-2.b/0416a009.d
Date: 16-APR-2011 12:53
Client ID:
Sample Info: BETX 100

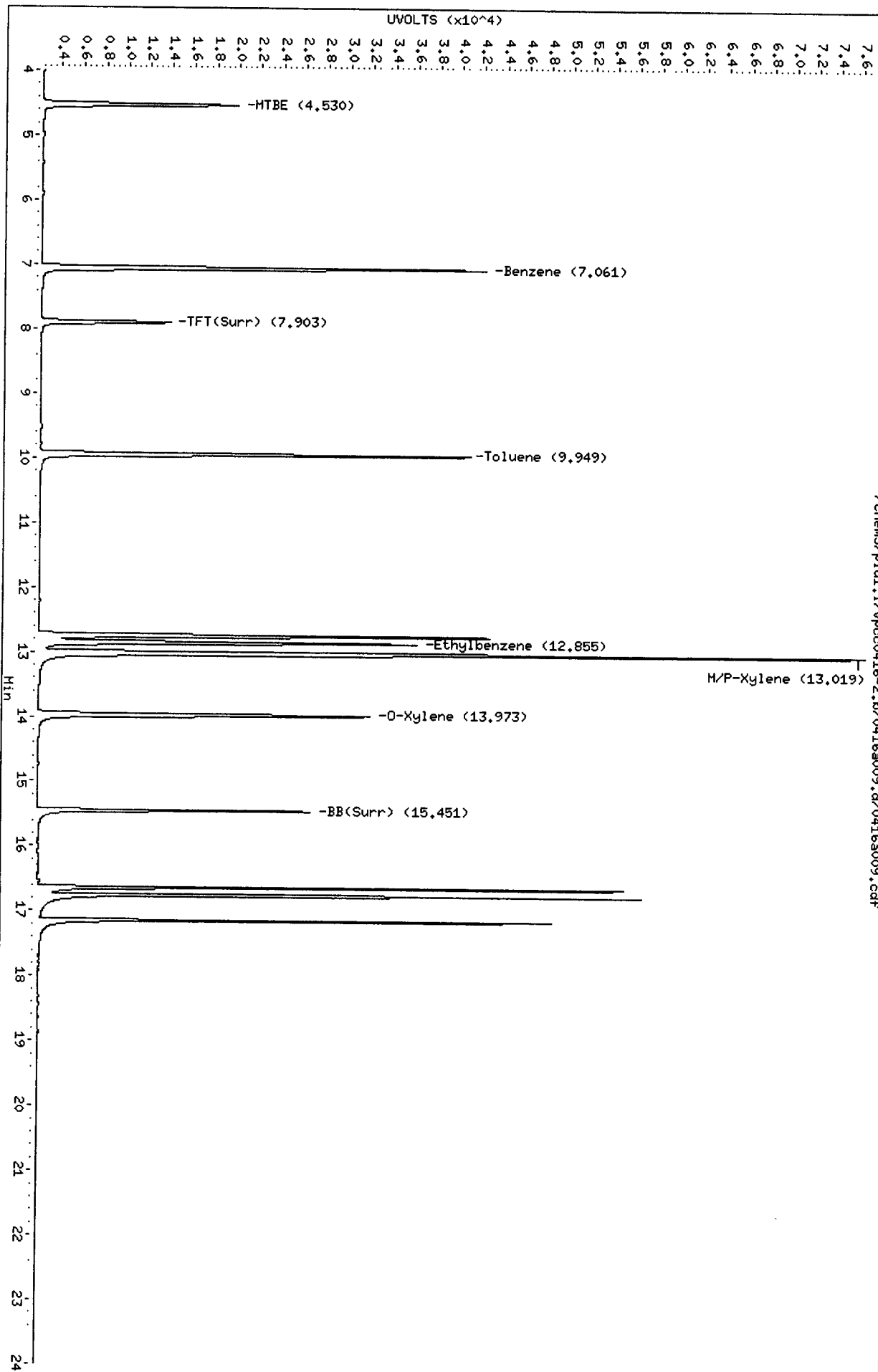
Instrument: pid1.i

Page 1

Column phase: RTX 502-2 PID

Operator: HH
Column diameter: 0.18

/chem3/pid1.i/vpcc0416-2.b/0416a009.d/0416a009.cdf



ST98 : 01006

MA
4/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0416-1.b/0416a010.d ARI ID: BETX 200
Data file 2: /chem3/pid1.i/vpcc0416-2.b/0416a010.d Client ID:
Method: /chem3/pid1.i/vpcc0416-2.b/PIDB.m Injection Date: 16-APR-2011 13:22
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

=====
FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	-----	-----	-----
7.903	0.000	5281	71709	186.7	TFT(Surr)
15.450	0.000	3949	33007	189.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	-----	-----	-----
WAGas Tol-C12 (9.85 to 17.94)	374773	1751023	4.672 M
8015B 2MP-TMB (4.17 to 16.23)	747017	1742510	2.333 M
AK101 nC6-nC10 (4.67 to 15.17)	604063	1607931	2.662 M
NWTPHG Tol-Nap (9.85 to 18.95)	403422	1754965	4.350 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
--	----	-----	-----	-----
7.902	0.000	12610	193.6	TFT(Surr)
15.450	0.000	26845	199.2	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.061	0.000	79451	181.24	Benzene
9.950	0.000	75431	192.91N	Toluene
12.858	0.000	66759	195.45	Ethylbenzene
13.025	0.000	143877	391.80	M/P-Xylene
13.978	0.000	59171	206.63	O-Xylene
4.530	0.000	34540	203.46	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0416-1.b/0416a010.d

Date: 16-APR-2011 13:22

Client ID:

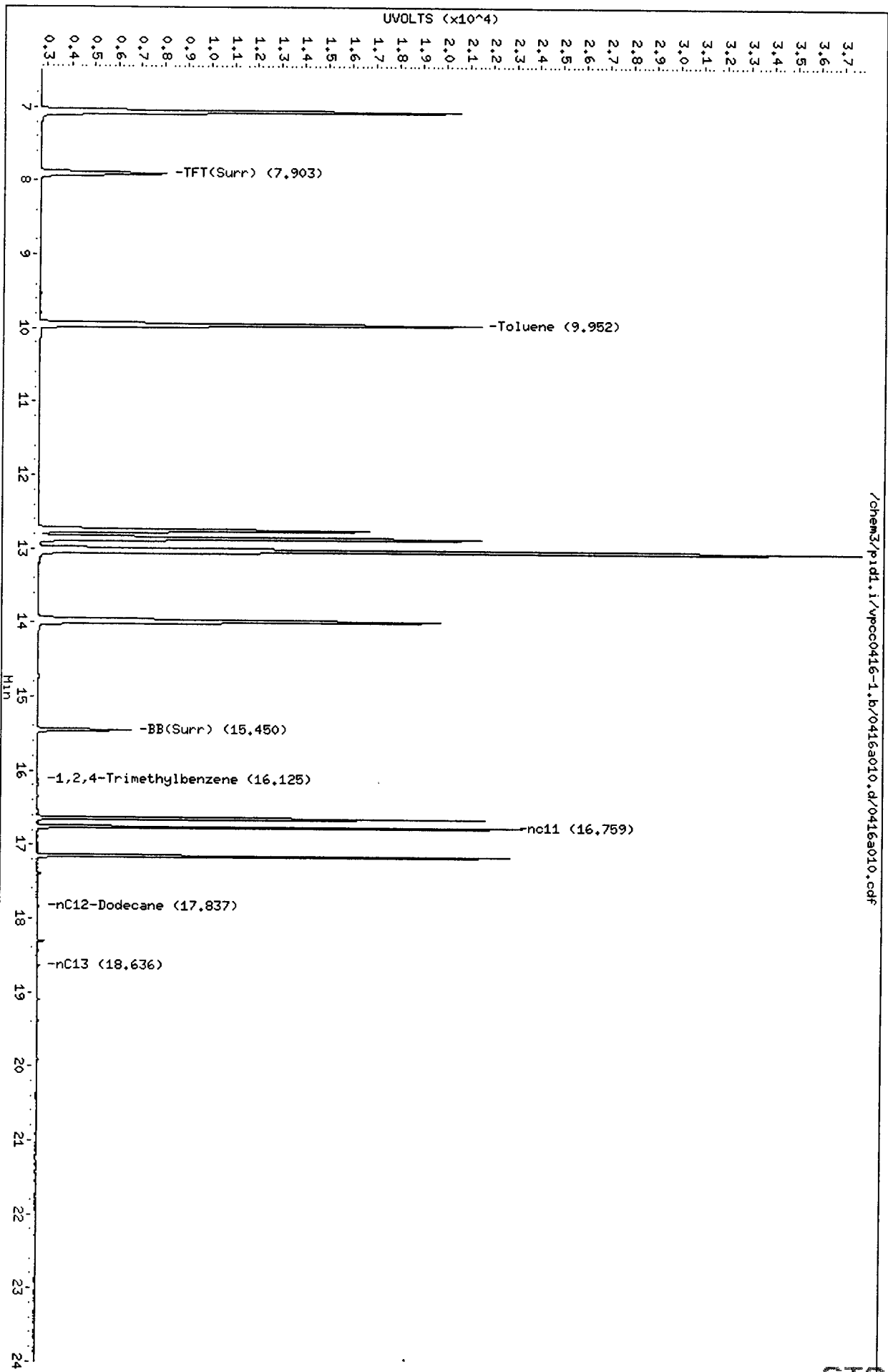
Sample Info: BETX 200

Instrument: pid1.1

Page 1

Column phase: RTX 502-2 FID

Operator: HH
Column diameter: 0.18



ST98 : 01008

Data File: /chem3/pid1.i/vpcc0416-2.b/0416a010.d

Date: 16-APR-2011 13:22

Client ID:

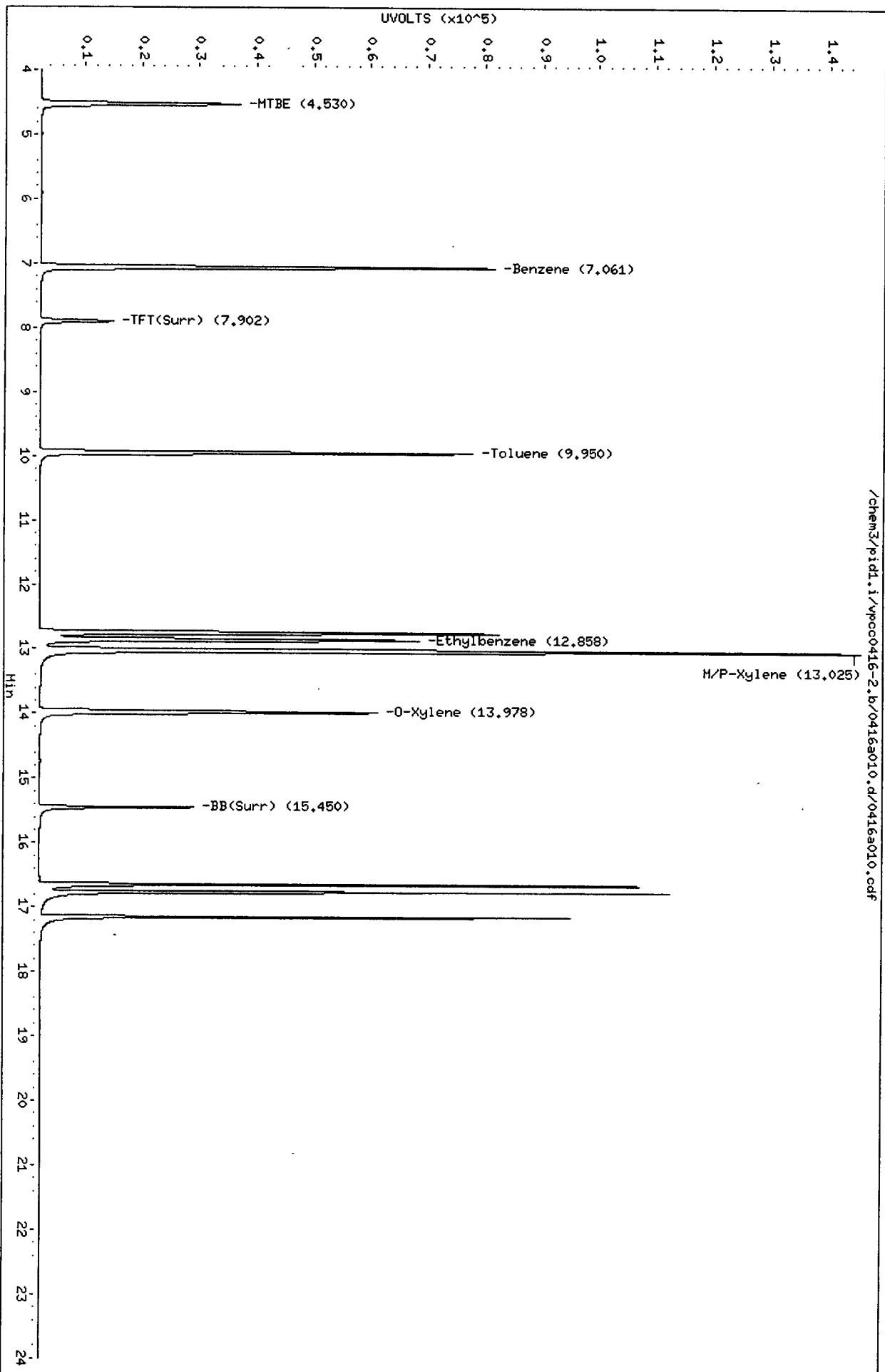
Sample Info: BETX 200

Page 1

Column phase: RTX 502-2 PID

Operator: HH
Column diameter: 0.18

/chem3/pid1.i/vpcc0416-2.b/0416a010.d/0416a010.cdf



MH
4/18/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0416-1.b/0416a011.d ARI ID: BETX ICV
Data file 2: /chem3/pid1.i/vpcc0416-2.b/0416a011.d Client ID:
Method: /chem3/pid1.i/vpcc0416-2.b/PIDB.m Injection Date: 16-APR-2011 13:52
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	----	----	-----
7.903	0.000	2782	38131	98.3	TFT(Surr)
15.450	0.000	2065	17204	99.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (9.85 to 17.94)	374773	251158	0.670
8015B 2MP-TMB (4.17 to 16.23)	747017	247104	0.331
AK101 nC6-nC10 (4.67 to 15.17)	604063	228011	0.377
NWTPHG Tol-Nap (9.85 to 18.95)	403422	253630	0.629

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	----	-----
7.902	0.001	6397	98.2	TFT(Surr)
15.451	0.001	13527	100.4	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	----	-----
7.053	-0.008	10805	24.65	Benzene
9.948	-0.002	9895	25.31	Toluene
12.853	-0.006	8895	26.04	Ethylbenzene
13.014	-0.012	19031	51.82	M/P-Xylene
13.972	-0.005	7643	26.69	O-Xylene
4.529	-0.001	4606	27.13	MTBE

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

Data File: /chem3/pidl.1/vpcc0416-1.b/0416a011.d
Date: 16-APR-2011 13:52

Client ID:

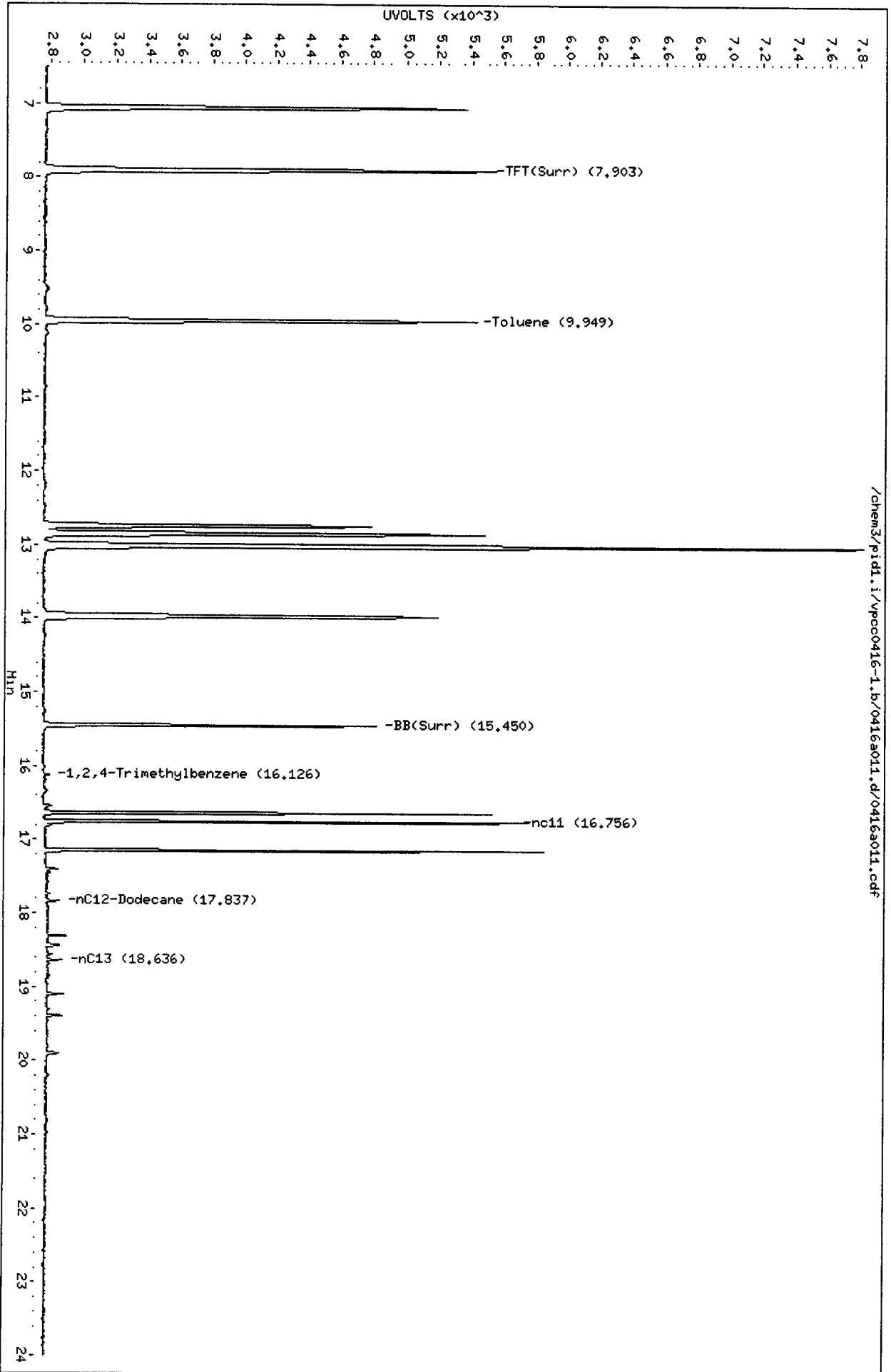
Sample Info: BETX ICV

Column phase: RTX 502-2 FID

Instrument: pidl.1

Operator: HH

Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0416-2.b/0416a011.d

Date: 16-APR-2011 13:52

Client ID:

Sample Info: BETX ICV

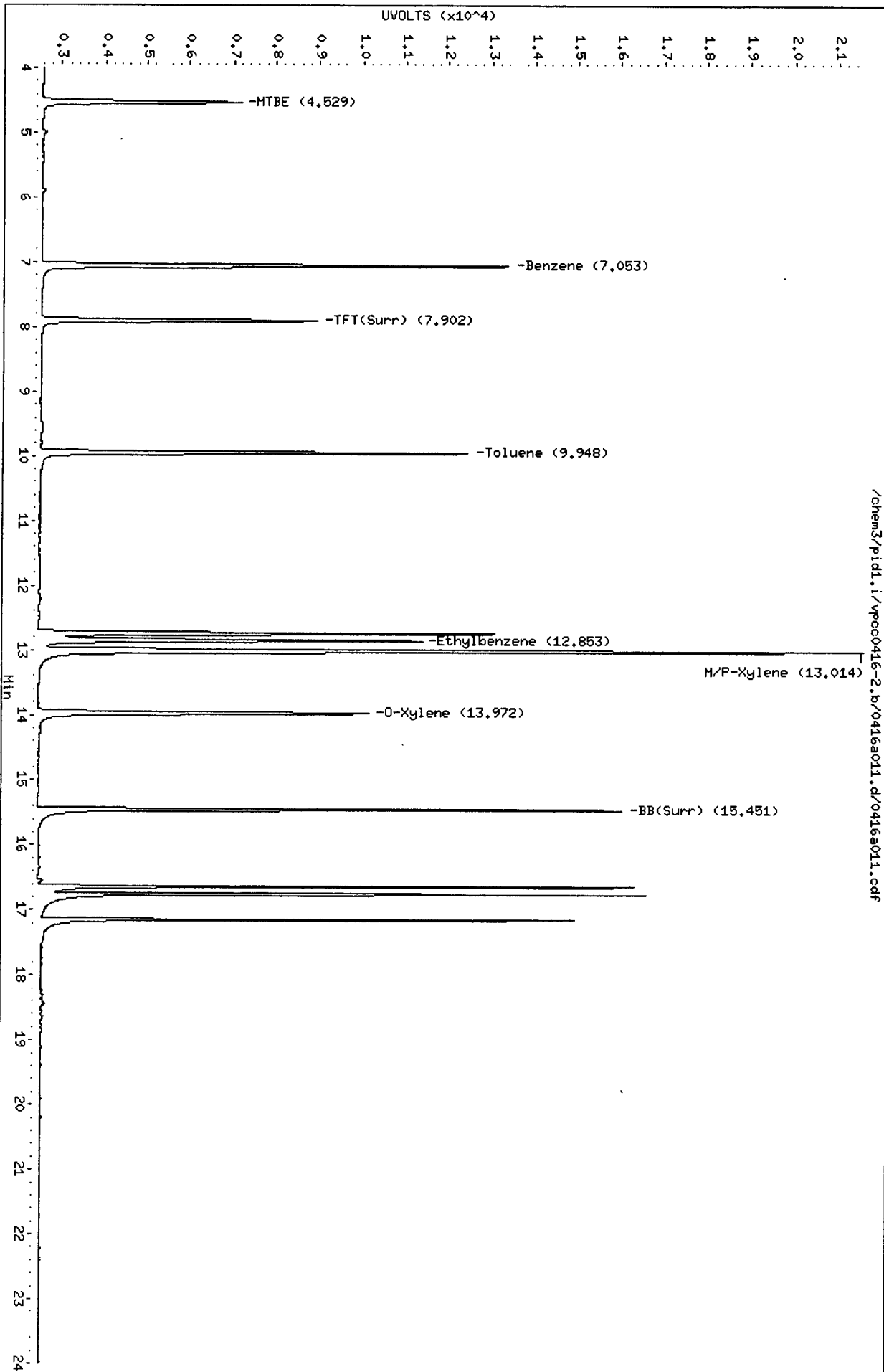
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

Page 1



/chem3/pid1.i/vpcc0416-2.b/0416a011.d/0416a011.cdf

ST98 : 01012

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid1.i/vpcc0416-2.b/PIDB.m
Batch File: /chem3/pid1.i/vpcc0416-2.b
Inst ID: pid1.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 MTBE	4.527	4.533	4.530	4.527	4.530	4.530	4.530	4.527	4.477-4.577	4.530	0.002
2 Benzene	7.053	7.050	7.050	7.053	7.058	7.061	7.061	7.053	7.003-7.103	7.055	0.005
3 TFF(Surr)	7.903	7.903	7.900	7.900	7.903	7.903	7.902	7.903	7.853-7.953	7.902	0.001
4 Toluene	9.947	9.947	9.947	9.947	9.948	9.949	9.950	9.947	9.897-9.997	9.948	0.001
15 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.068	13.018-13.118	+++++	+++++
5 Ethylbenzene	12.850	12.850	12.851	12.851	12.851	12.855	12.858	12.850	12.800-12.900	12.852	0.003
6 M/P-Xylene	13.013	13.012	13.011	13.012	13.013	13.019	13.025	13.013	12.963-13.063	13.015	0.005
7 O-Xylene	13.970	13.967	13.970	13.970	13.970	13.973	13.978	13.970	13.940-14.000	13.971	0.003
19 BFB(Surr)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.006	15.976-16.036	+++++	+++++
8 BB(Surr)	15.450	15.450	15.450	15.450	15.449	15.451	15.450	15.450	15.400-15.500	15.450	0.000
13 1,3,5 Trimethyl Benzen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.433	16.403-16.463	+++++	+++++
14 1,2,4 Trimethyl Benzen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.905	16.875-16.935	+++++	+++++
16 1,3 Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.863	16.833-16.893	+++++	+++++
17 1,4 Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.979	16.949-17.009	+++++	+++++
18 1,2 Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.371	17.341-17.401	+++++	+++++

Reviewer 1 MH Date: 4/18/11
 Reviewer 2 [Signature] Date: 4/18/11

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid1.i/vpcc0416-1.b/FID.m
Batch File: /chem3/pid1.i/vpcc0416-1.b
Inst ID: pid1.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC 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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.269	4.199-4.339	+++++	+++++
2 nC6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.770	4.700-4.840	+++++	+++++
3 nC7	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.856	6.786-6.926	+++++	+++++
\$ 4 TET (Surr)	7.903	7.903	7.903	7.903	7.905	7.905	7.903	7.903	7.833-7.973	7.904	0.001
5 nC8	9.533	9.524	9.527	9.527	9.525	9.527	9.533	9.533	9.463-9.603	9.527	0.003
6 Toluene	9.948	9.948	9.949	9.948	9.950	9.951	9.952	9.948	9.878-10.018	9.949	0.002
7 nC9	12.483	+++++	+++++	+++++	+++++	+++++	+++++	12.483	12.413-12.553	12.483	0.000
\$ 22 BFB (Surr)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.027	15.957-16.097	+++++	+++++
8 nC10-Decane	15.262	15.265	15.269	15.265	15.265	15.265	15.262	15.262	15.192-15.332	15.265	0.003
\$ 9 BB (Surr)	15.450	15.450	15.450	15.449	15.449	15.451	15.450	15.450	15.380-15.520	15.450	0.001
10 1,2,4-Trimethylbenzene	16.195	16.125	16.125	16.124	16.124	16.126	16.125	16.195	16.125-16.265	16.135	0.027
11 nC11	16.755	16.756	16.755	16.754	16.755	16.757	16.759	16.755	16.685-16.825	16.756	0.002
12 nC12-Dodecane	17.843	17.845	17.836	17.843	17.841	17.837	17.837	17.843	17.773-17.913	17.840	0.003

Reviewer 1 MH Date: 4/18/11
Reviewer 2 [Signature] Date: 4/18/11



VOA Analyst Notes / Corrective Action Log

ARI Project ID: GAS/BETX Curve Client ID: _____

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

Parameter(s): GAS/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: 5/5/11 Analysis Start Date: 5/5/11

pH ≤ 2.0	YES / NO <u>(NA)</u>	Method Blank In Control?	YES / NO
BFB Tune Meets Criteria?	YES / NO <u>(NA)</u>	LCS / LCSD Recovery In Control?	YES / NO
Internal Standard Meets Criteria?	YES / NO / <u>(NA)</u>	Surrogate Recovery In Control?	YES / 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 / 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 0.25
BETX ICU Targeted 25

Additional Details on Reverse: Yes / No

Analyst: [Signature] Date: 5/9/11

Reviewer: [Signature] Date: 5/9/11

Analytical Resources Inc.: Organics Instrument Log

PID-1 Serial No.: 2750A-17141

Date: 5/5/11 Analysis: NWTPHC/BETX Analyst: MH

GC Program: BETX Column No: 821726 Column Type: RTX502-2

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

Calibration File: Curve Date: 5/5/11

IS/SS	Ical/Ccal	LCS/ICV
<u>VW 683-2</u>	<u>VW 666-1</u>	<u>VW 687-3</u>
	<u>VW 683-3</u>	
	<u>VW 687-3</u>	

Time	Filename	LabID	ClientID	Vial#	pH	DP
1	0517 0505a001.d	RINSE				1
2	0546 0505a002.d	RT-BCAL 1				1
3	0901 0505a003.d	GCAL 1				1
4	1139 0505a004.d	RINSE				1
5	1209 0505a005.d	BETX .25				1
6	1238 0505a006.d	BETX 5				1
7	1307 0505a007.d	BETX 5				1
8	1336 0505a008.d	BETX 25				1
9	1405 0505a009.d	BETX 50				1
10	1434 0505a010.d	BETX 100				1
11	1504 0505a011.d	BETX 200				1
12	1533 0505a012.d	BETX ICV				1
13	1602 0505a013.d	RINSE				1
14	1631 0505a014.d	GAS .1				1
15	1700 0505a015.d	GAS .25				1
16	1730 0505a016.d	GAS 1				1
17	1759 0505a017.d	GAS 2.5				1
18	1828 0505a018.d	GAS 5				1
19	1857 0505a019.d	GAS 20				1
20	1927 0505a020.d	RINSE				1
21	1956 0505a021.d	GAS ICV				1

[Large handwritten scribble]

MH
5/9/11

Maintenance / Comments

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

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2011 12:09
 End Cal Date : 05-MAY-2011 15:04
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem3/pid1.i/vpcc0505-2.b/PIDB.m
 Cal Date : 06-May-2011 05:29 monicah
 Curve Type : Average

Calibration File Names:

Level 1: /chem3/pid1.i/vpcc0505-2.b/0505a005.d/0505a005.cdf
 Level 2: /chem3/pid1.i/vpcc0505-2.b/0505a006.d/0505a006.cdf
 Level 3: /chem3/pid1.i/vpcc0505-2.b/0505a007.d
 Level 4: /chem3/pid1.i/vpcc0505-2.b/0505a008.d
 Level 5: /chem3/pid1.i/vpcc0505-2.b/0505a009.d
 Level 6: /chem3/pid1.i/vpcc0505-2.b/0505a010.d
 Level 7: /chem3/pid1.i/vpcc0505-2.b/0505a011.d

Compound	0.25000 Level 1	0.50000 Level 2	5.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	RRF	% RSD
1 MTBE	124 113	114	121	110	114	111		115	4.576
2 Benzene	432 340	400	403	349	344	337		372	10.372
4 Toluene	396 326	342	346	321	326	324		340	7.781
15 Chlorobenzene	++++ ++++	++++	++++	++++	++++	++++		++++	++++ <-
5 Ethylbenzene	284 294	272	311	287	295	291		291	4.130
6 M/P-Xylene	358 315	311	330	308	318	317		322	5.309

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2011 12:09
 End Cal Date : 05-MAY-2011 15:04
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem3/pid1.i/vpcc0505-2.b/PIDB.m
 Cal Date : 06-May-2011 05:29 monicah
 Curve Type : Average

Compound	0.25000 Level 1	0.50000 Level 2	5.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
7 O-Xylene	240 258	242	270	246	255	254	252	4.165
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)	60.54545 55.18500	56.15909	54.10448	54.63000	55.97744	55.27528	55.98239	3.813
\$ 19 BFB(Surr)	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
\$ 8 BB(Surr)	123 121	117	115	117	120	120	119	2.225

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-MAY-2011 12:09
 End Cal Date : 05-MAY-2011 15:04
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /chem3/pid1.i/vpcc0505-1.b/FID.m
 Cal Date : 06-May-2011 05:36 monicah
 Curve Type : Average

Compound	0.000e+00 Level 1	0.000e+00 Level 2	0.000e+00 Level 3	0.000e+00 Level 4	0.000e+00 Level 5	0.000e+00 Level 6	RRF	% RSD
	0.000e+00 Level 7							
14 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	+++++						+++++	+++++
\$ 4 TFT(Surr)	28.77273	26.50000	25.56716	25.53000	25.92481	25.32022		
	25.11500						26.10428	4.826
\$ 22 BFB(Surr)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	+++++						+++++	+++++
\$ 9 BB(Surr)	20.36364	19.04545	18.50746	18.56000	18.72180	18.53933		
	18.39500						18.87610	3.649

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a002.d ARI ID: RT+BCAL 1
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a002.d Client ID:
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m Injection Date: 05-MAY-2011 05:46
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.904	-0.002	2694	36421	103.2	TFT(Surr)
15.447	-0.001	1909	15987	101.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.96)	319505	456964	1.430
8015B 2MP-TMB (4.17 to 16.26)	652210	517504	0.793
AK101 nC6-nC10 (4.67 to 15.16)	527526	369517	0.700
NWTPHG Tol-Nap (9.85 to 18.98)	340084	509066	1.497

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.902	-0.002	5860	104.7	TFT(Surr)
15.447	-0.001	12143	102.1	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.062	-0.004	9443	25.37	Benzene
9.945	-0.005	8851	26.03	Toluene
12.848	-0.007	7942	27.32	Ethylbenzene
13.010	-0.012	17038	52.83	M/P-Xylene
13.968	-0.007	6851	27.16	O-Xylene
4.538	-0.001	2895	25.11	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0505-1.b/0505a002.d
Date: 05-MAY-2011 05:46

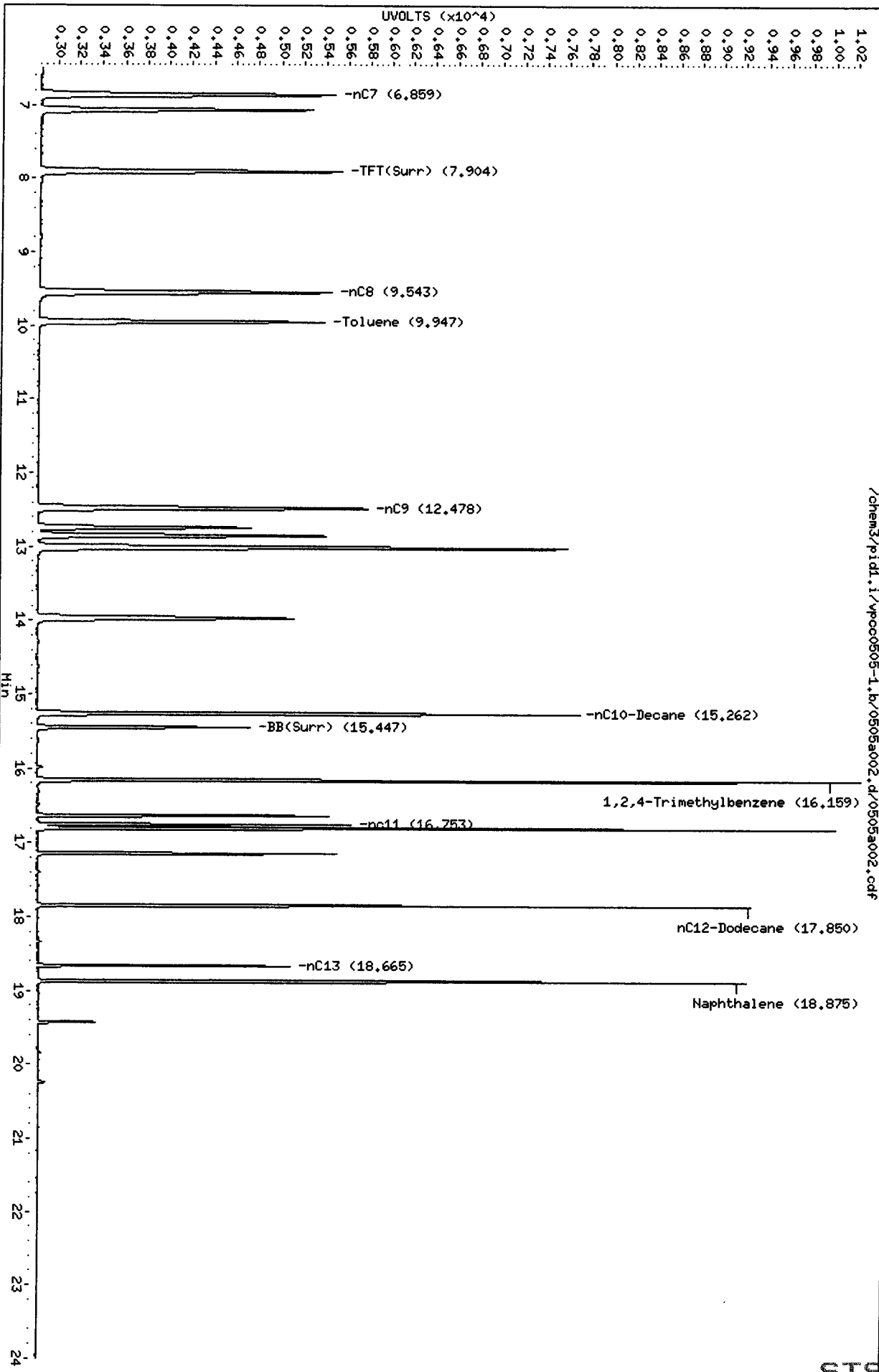
Client ID:
Sample Info: RT+BCAL 1

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH
Column diameter: 0.18

Page 1



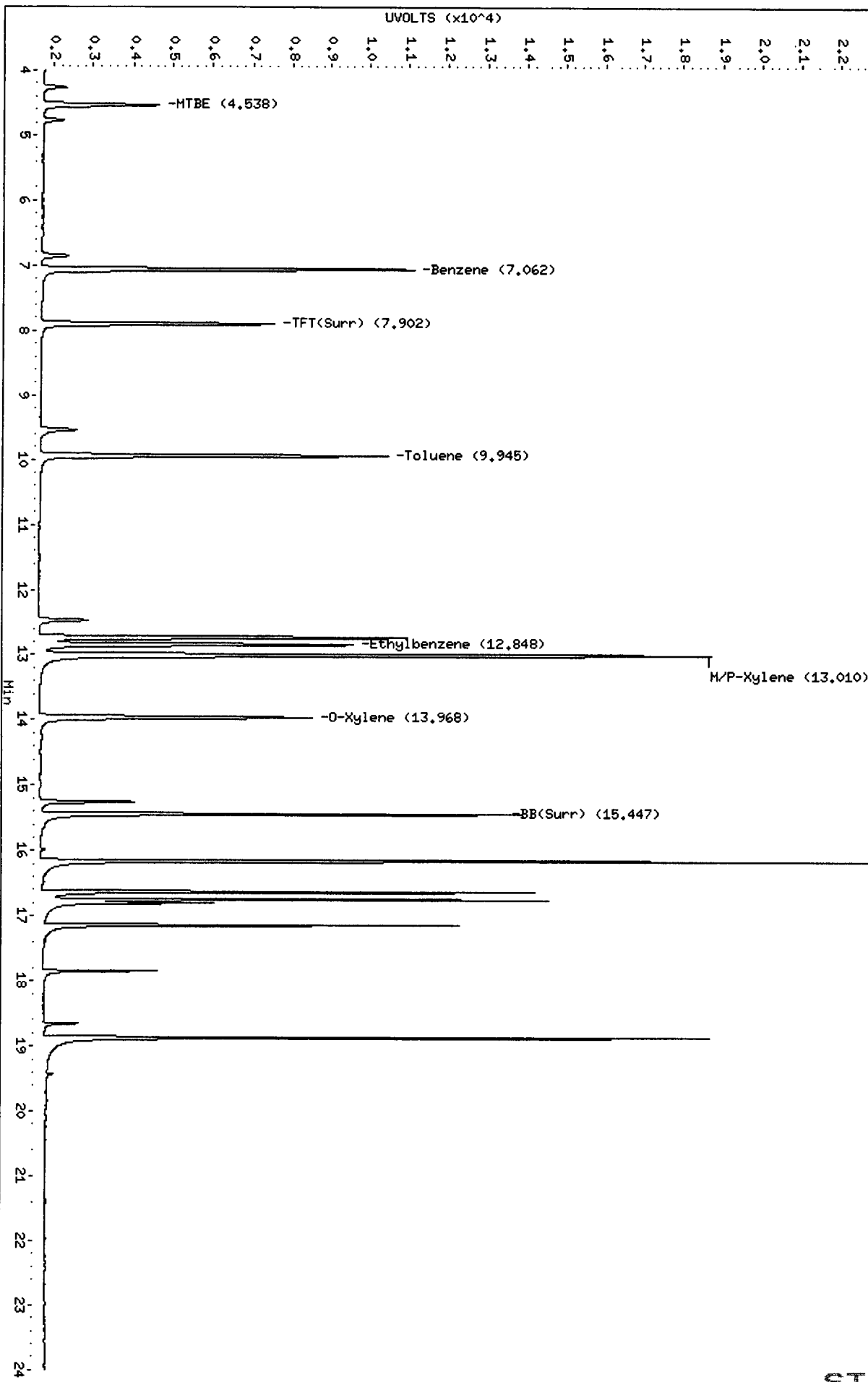
ST98: 01021

Data File: /chem3/pidl.i/vpoc0505-2.b/0505a002.d
Date: 05-MAY-2011 05:46
Client ID:
Sample Info: RT+GCAL 1

Column phase: RTX 502-2 PID

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

/chem3/pidl.i/vpoc0505-2.b/0505a002.d/0505a002.cdf



MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a005.d ARI ID: BETX .25
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a005.d Client ID:
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m Injection Date: 05-MAY-2011 12:09
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.905	-0.001	633	8568	24.2	TFT(Surr)
15.449	0.001	448	3718	23.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.96)	319505	4488	0.014
8015B 2MP-TMB (4.17 to 16.26)	652210	2674	0.004
AK101 nC6-nC10 (4.67 to 15.16)	527526	2305	0.004
NWTPHG Tol-Nap (9.85 to 18.98)	340084	5368	0.016

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.903	-0.001	1332	23.8	TFT(Surr)
15.450	0.002	2699	22.7	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.053	-0.013	108	0.29N	Benzene
9.947	-0.003	99	0.29N	Toluene
12.847	-0.009	71	0.24N	Ethylbenzene
13.013	-0.009	179	0.56N	M/P-Xylene
13.973	-0.001	60	0.24N	O-Xylene
4.537	-0.002	31	0.27N	MTBE

A Indicates Peak Area was used for quantitation instead of Height

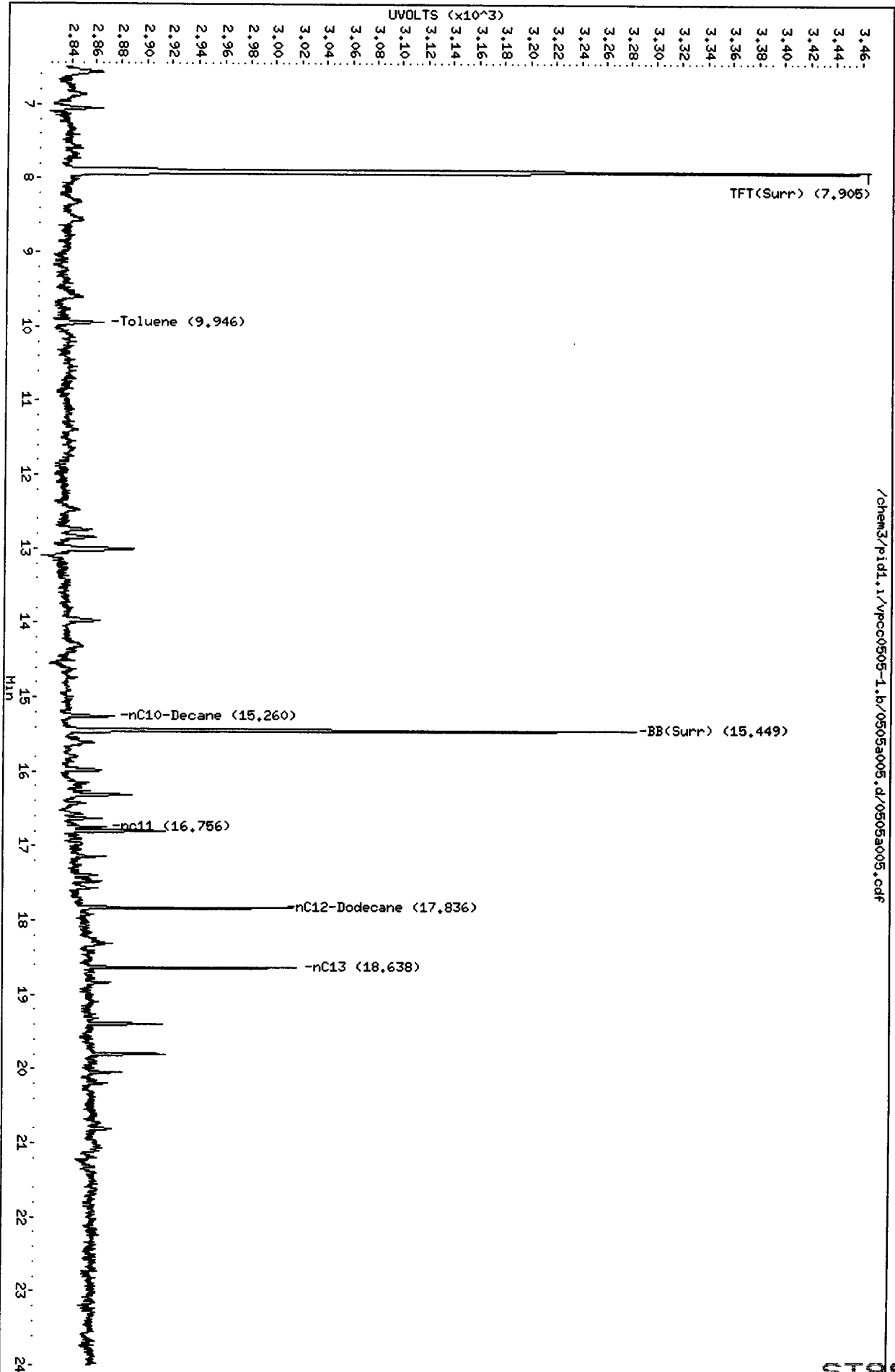
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0505-1.b/0505a005.d
Date : 05-MAY-2011 12:09
Client ID:
Sample Info: BETX .25

Column phase: RTX 502-2 FID

/chem3/pid1.i/vpcc0505-1.b/0505a005.d/0505a005.cdf

Instrument: pid1.i
Operator: MH
Column diameter: 0.18



Data File: /chem3/pidl.i/vpoc0505-2.b/0505a005.d
Date : 05-MAY-2011 12:09

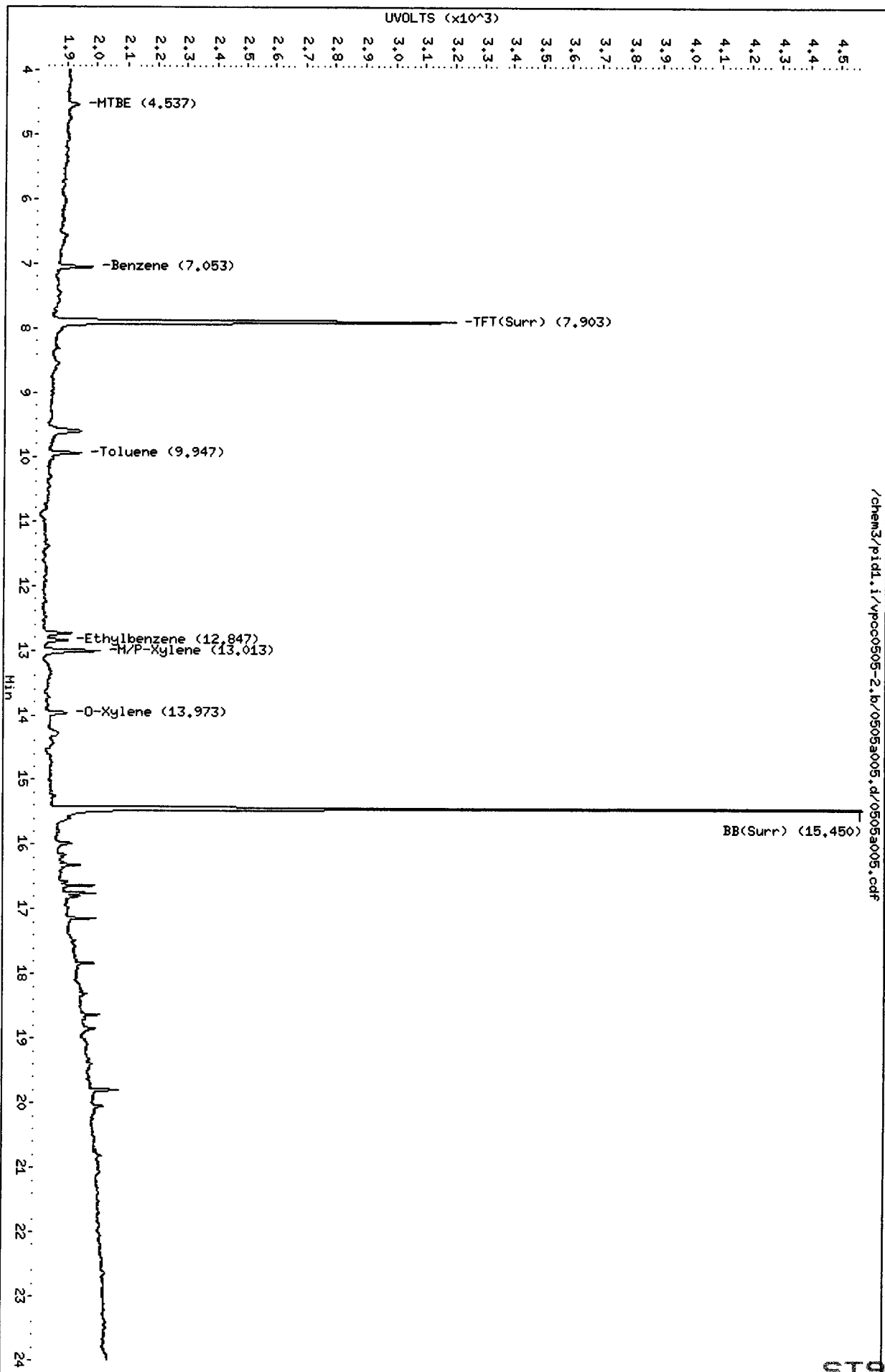
Page 1

Client ID:
Sample Info: BETX .25

Instrument: pidl.i

Column phase: RTX 502-2 PID

Operator: MH
Column diameter: 0.18



ST98 : 01025

MT
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a006.d ARI ID: BETX .5
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a006.d Client ID:
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m Injection Date: 05-MAY-2011 12:38
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.904	-0.002	1166	15840	44.7	TFT(Surr)
15.448	0.000	838	6989	44.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.96)	319505	6148	0.019
8015B 2MP-TMB (4.17 to 16.26)	652210	4649	0.007
AK101 nC6-nC10 (4.67 to 15.16)	527526	4648	0.009
NWTPHG Tol-Nap (9.85 to 18.98)	340084	7297	0.021

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.902	-0.003	2471	44.1	TFT(Surr)
15.447	-0.001	5144	43.3	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.053	-0.013	200	0.54N	Benzene
9.947	-0.003	171	0.50N	Toluene
12.850	-0.005	136	0.47N	Ethylbenzene
13.011	-0.012	311	0.96	M/P-Xylene
13.967	-0.008	121	0.48N	O-Xylene
4.533	-0.005	57	0.49N	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

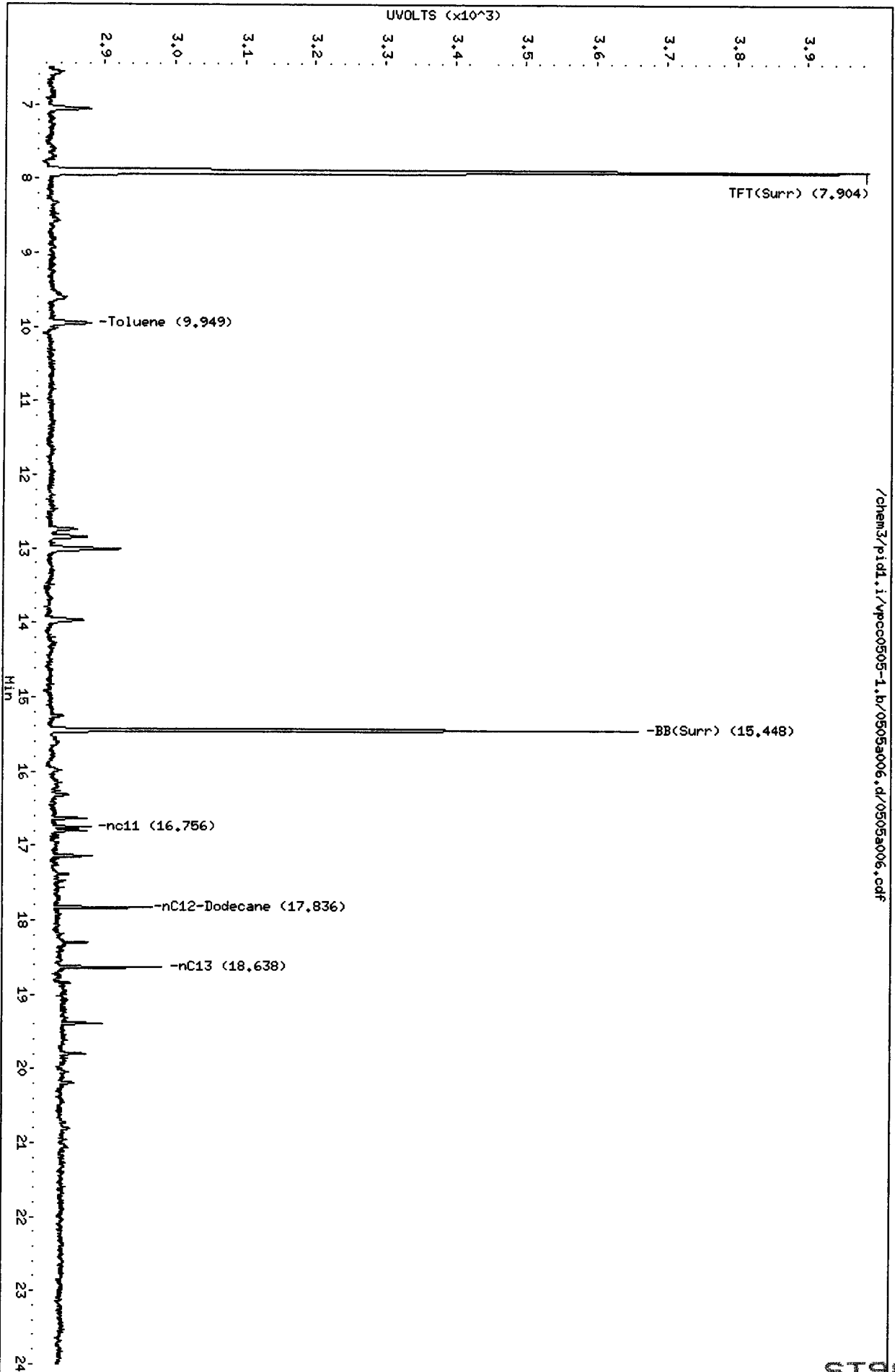
Data File: /chem3/pid1.i/vpcc0505-1.b/0505a006.d
Date: 05-MAY-2011 12:38
Client ID:
Sample Info: BETX .5

Column phase: RTX 502-2 FID

/chem3/pid1.i/vpcc0505-1.b/0505a006.d/0505a006.cdf

Instrument: pid1.i

Operator: HH
Column diameter: 0.18

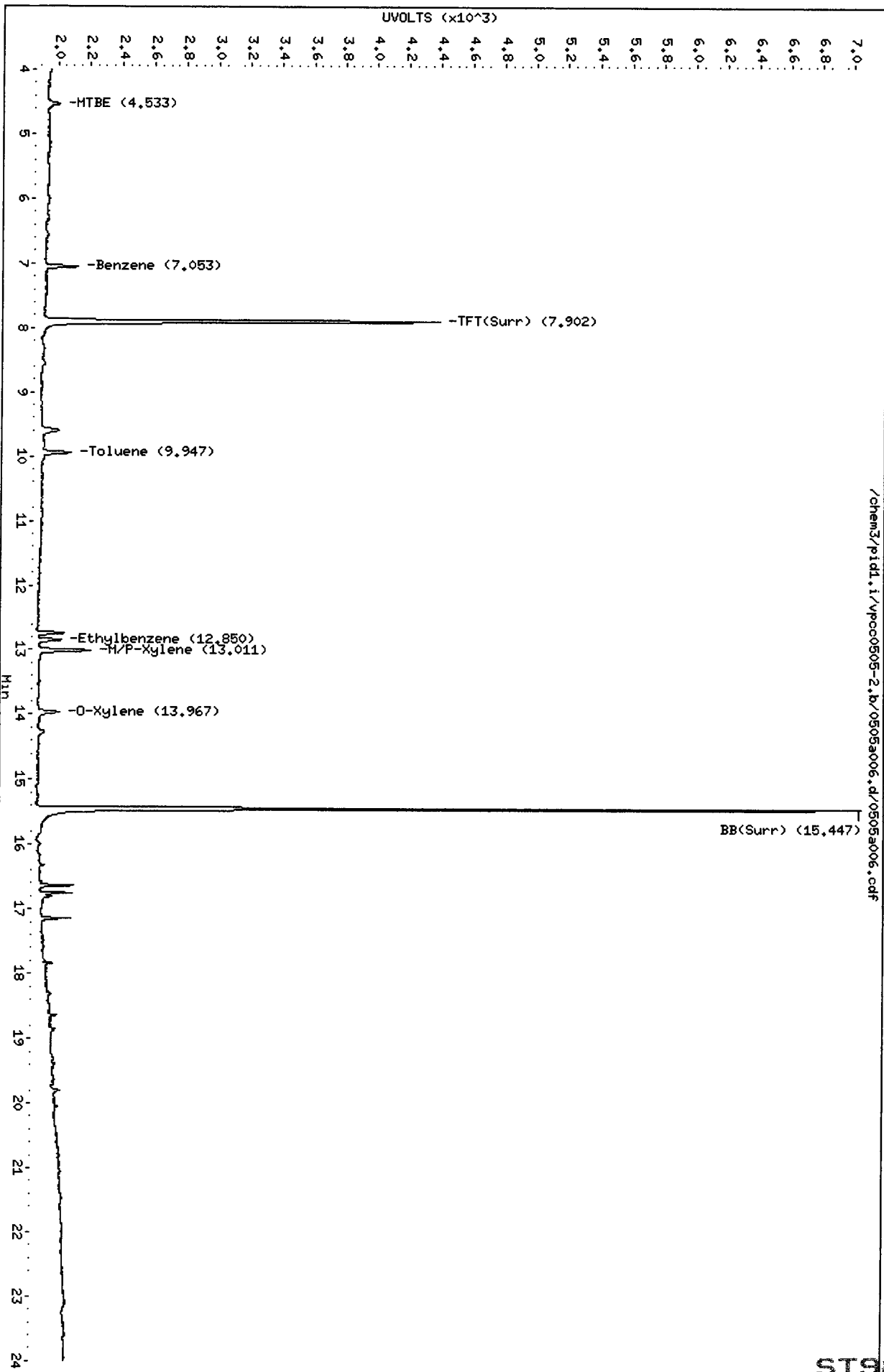


Data File: /chem3/pid1.i/vpcc0505-2.b/0505a006.d
Date: 05-MAY-2011 12:38
Client ID:
Sample Info: BETX .5

Column phase: RTX 502-2 PID

Instrument: pid1.i
Operator: HH
Column diameter: 0.18

/chem3/pid1.i/vpcc0505-2.b/0505a006.d/0505a006.cdf



M4
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a007.d ARI ID: BETX 5
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a007.d Client ID:
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m Injection Date: 05-MAY-2011 13:07
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	----	----	-----
7.905	-0.001	1713	23242	65.6	TFT(Surr)
15.449	0.000	1240	10442	65.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (9.85 to 17.96)	319505	49311	0.154
8015B 2MP-TMB (4.17 to 16.26)	652210	47516	0.073
AK101 nC6-nC10 (4.67 to 15.16)	527526	44551	0.084
NWTPHG Tol-Nap (9.85 to 18.98)	340084	50121	0.147

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
7.903	-0.001	3625	64.8	TFT(Surr)
15.448	0.000	7732	65.0	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.054	-0.012	2016	5.42	Benzene
9.946	-0.004	1729	5.08	Toluene
12.849	-0.006	1557	5.36	Ethylbenzene
13.010	-0.012	3299	10.23	M/P-Xylene
13.969	-0.005	1351	5.35	O-Xylene
4.534	-0.005	606	5.26	MTBE

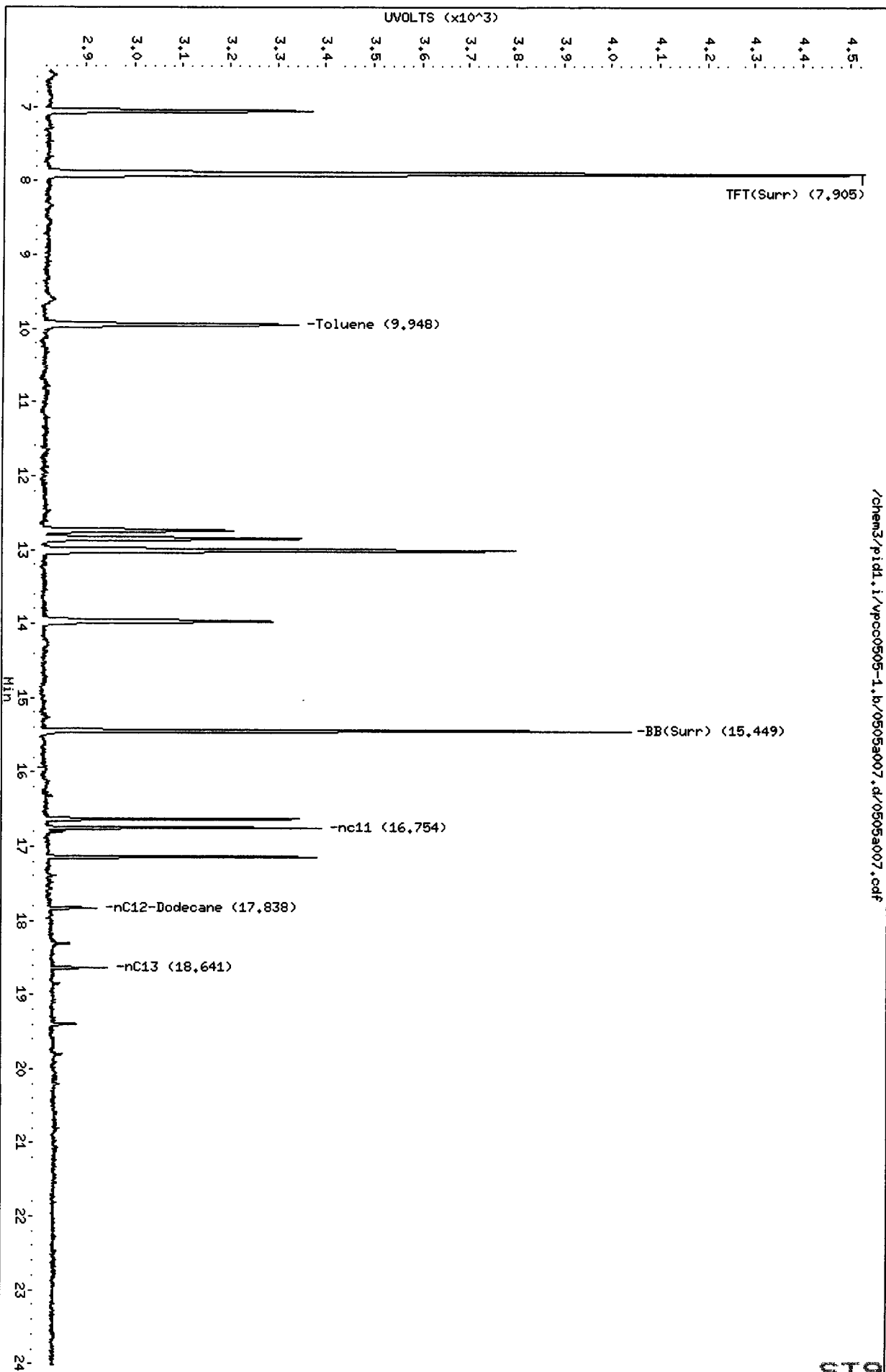
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pidl.i/vpcc0505-1.b/0505a007.d
Date : 05-MAY-2011 13:07
Client ID:
Sample Info: BETX 5

Column phase: RTX 502-2 FID

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

/chem3/pidl.i/vpcc0505-1.b/0505a007.d/0505a007.caf



Data File: /chem3/pidl.1/vpcc0505-2.b/0505a007.d
Date : 05-MAY-2011 13:07
Client ID:
Sample Info: BETX 5

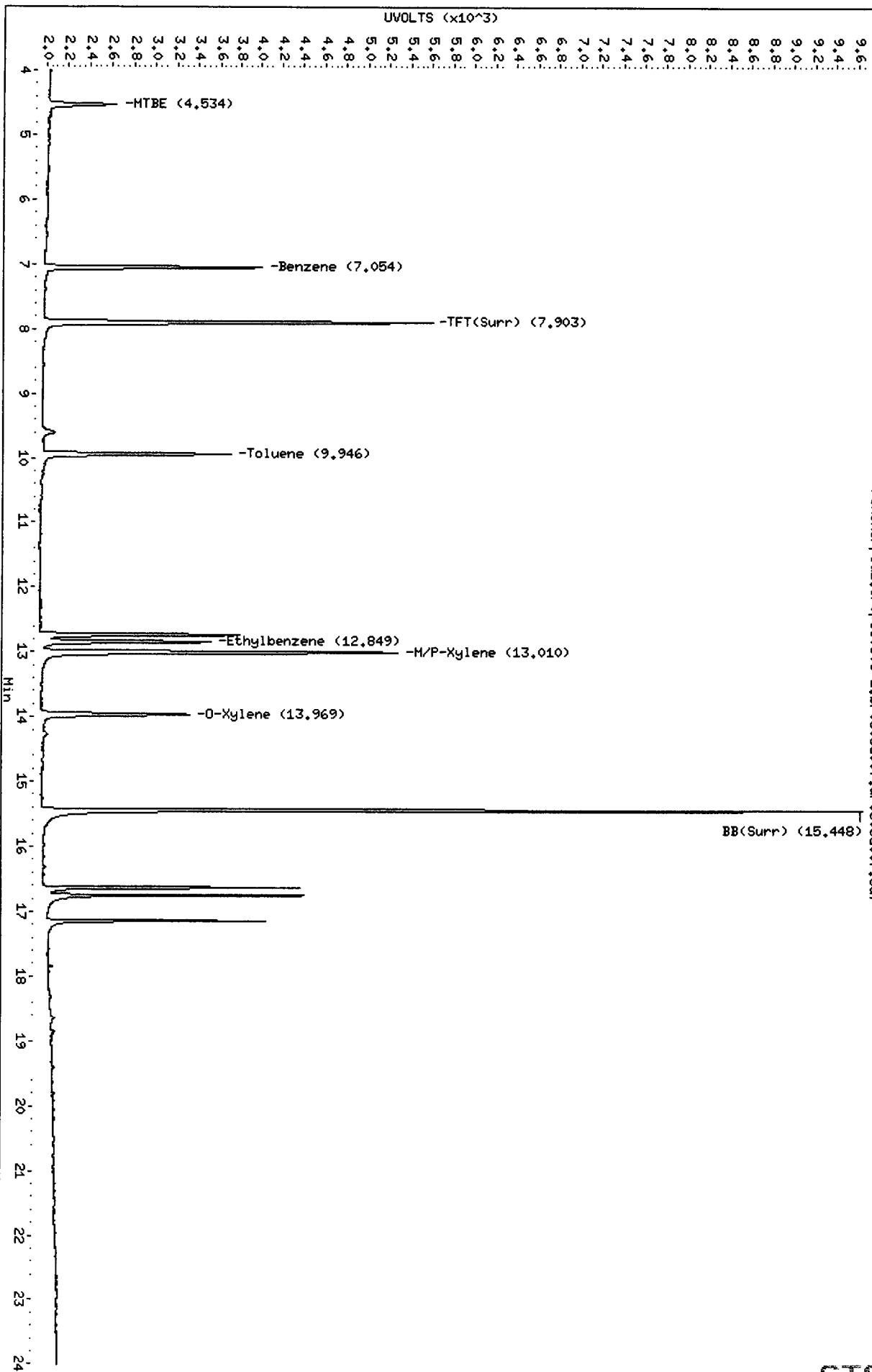
Instrument: pidl.1

Page 1

Column phase: RTX 502-2 PID

Operator: MH
Column diameter: 0.18

/chem3/pidl.1/vpcc0505-2.b/0505a007.d/0505a007.cdf



ST98 : 01031

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a008.d ARI ID: BETX 25
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a008.d Client ID:
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m Injection Date: 05-MAY-2011 13:36
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	----	----	-----
7.906	-0.001	2553	34707	97.8	TFT(Surr)
15.449	0.001	1856	15512	98.3	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (9.85 to 17.96)	319505	213583	0.668
8015B 2MP-TMB (4.17 to 16.26)	652210	208113	0.319
AK101 nC6-nC10 (4.67 to 15.16)	527526	195796	0.371
NWTPHG Tol-Nap (9.85 to 18.98)	340084	214356	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
--	----	-----	----	-----
7.904	-0.001	5463	97.6	TFT(Surr)
15.449	0.001	11655	98.0	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.058	-0.008	8734	23.47	Benzene
9.947	-0.003	8029	23.61	Toluene
12.850	-0.005	7183	24.71	Ethylbenzene
13.012	-0.010	15396	47.74	M/P-Xylene
13.969	-0.005	6153	24.39	O-Xylene
4.536	-0.003	2742	23.78	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0505-1.b/0505a008.d

Date: 05-MAY-2011 13:36

Client ID:

Sample Info: BETX 25

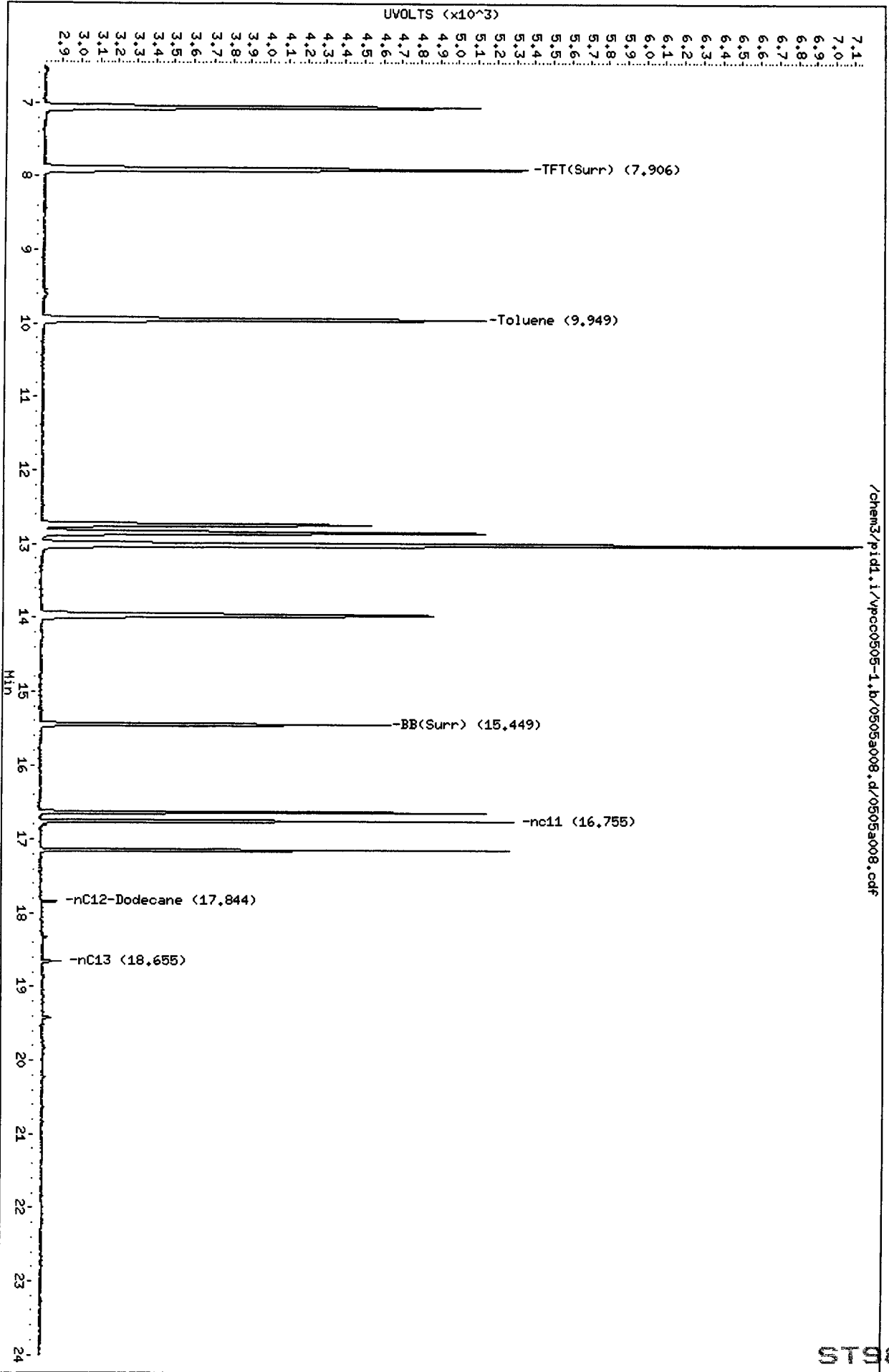
Instrument: pid1.i

Operator: HH

Column diameter: 0.18

Column phase: RTX 502-2 FID

/chem3/pid1.i/vpcc0505-1.b/0505a008.d/0505a008.cdf



Data File: /chem3/pid1.i/vpcc0505-2.b/0505a008.d
Date : 05-MAY-2011 13:36

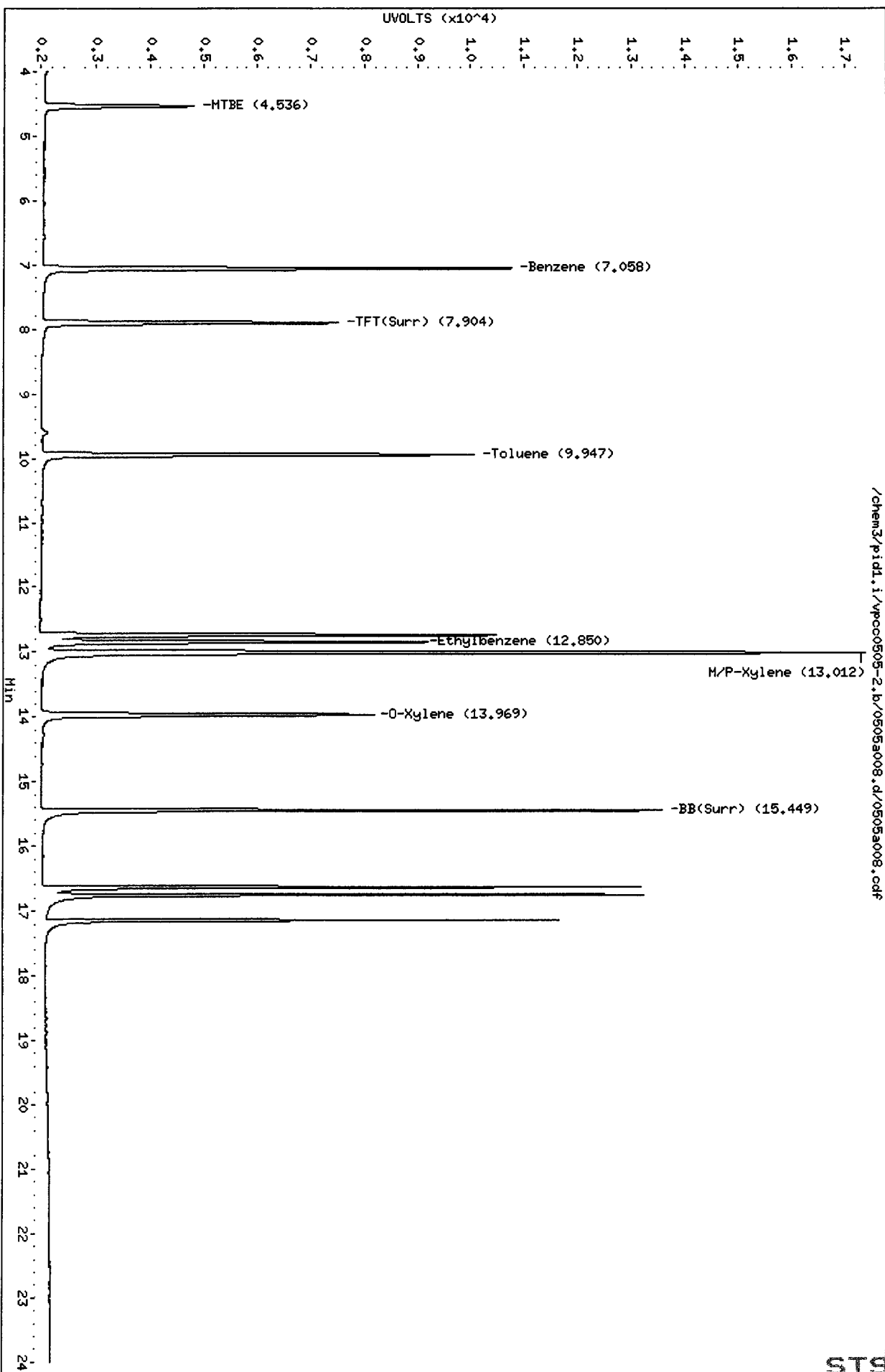
Client ID:
Sample Info: BETX 25

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: HH
Column diameter: 0.18

Page 1



/chem3/pid1.i/vpcc0505-2.b/0505a008.d/0505a008.cdf

ST98 : 01034

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a009.d ARI ID: BETX 50
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a009.d Client ID:
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m Injection Date: 05-MAY-2011 14:05
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.908	0.002	3448	46899	132.1	TFT(Surr)
15.450	0.001	2490	20749	131.9	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.96)	319505	427894	1.339
8015B 2MP-TMB (4.17 to 16.26)	652210	418865	0.642
AK101 nC6-nC10 (4.67 to 15.16)	527526	393029	0.745
NWTPHG Tol-Nap (9.85 to 18.98)	340084	428397	1.260

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.906	0.002	7445	133.0	TFT(Surr)
15.449	0.001	15947	134.1	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.063	-0.003	17208	46.24	Benzene
9.949	-0.001	16279	47.88	Toluene
12.852	-0.003	14766	50.79	Ethylbenzene
13.015	-0.008	31808	98.63	M/P-Xylene
13.972	-0.003	12759	50.57	O-Xylene
4.538	-0.001	5691	49.35	MTBE

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

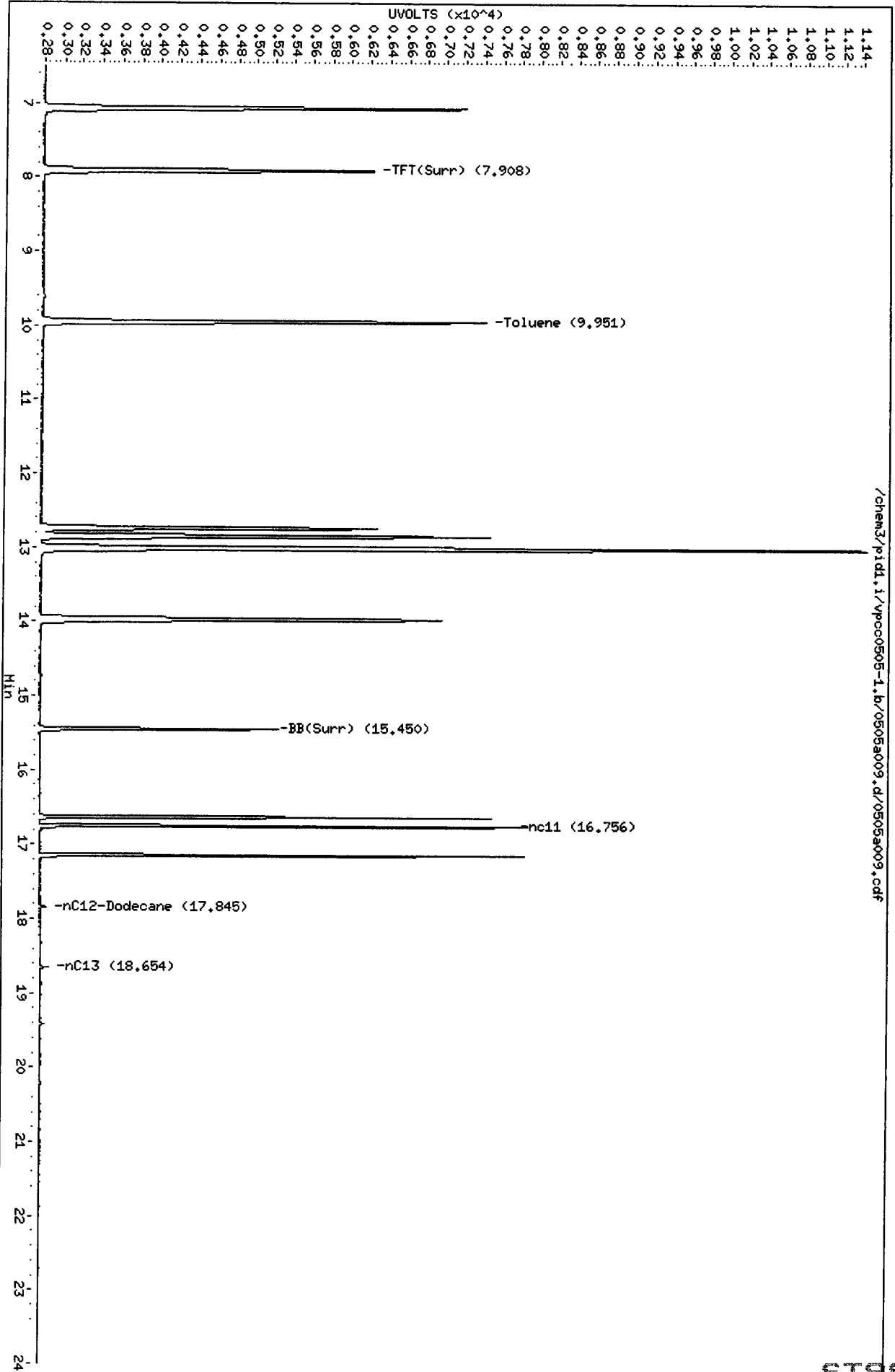
Data File: /chem3/pid1.i/vpcc0505-1.b/0505a009.d
Date : 05-MAY-2011 14:05
Client ID:
Sample Info: BETX 50

Instrument: pid1.i

Page 1

Column phase: RTX 502-2 FID

Operator: MH
Column diameter: 0.18



ST98: 01036

Data File: /chem3/pidl.i/vpcc0505-2.b/0505a009.d
Date : 05-MAY-2011 14:05

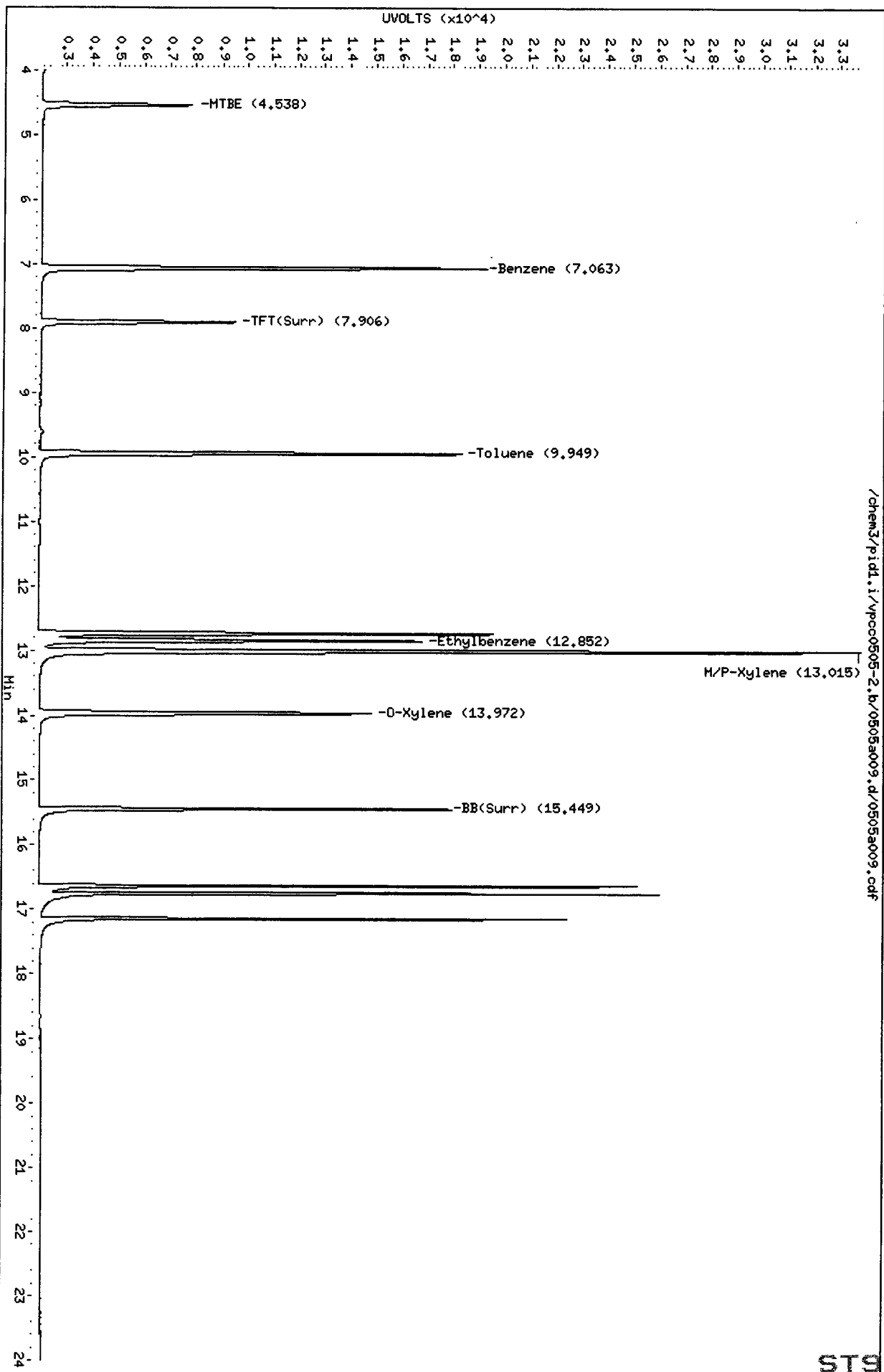
Client ID:
Sample Info: BETX 50

Column phase: RTX 502-2 PID

Instrument: pidl.i

Operator: HH
Column diameter: 0.18

Page 1



/chem3/pidl.i/vpcc0505-2.b/0505a009.d/0505a009.cdf

ST98 : 01037

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a010.d ARI ID: BETX 100
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a010.d Client ID:
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m Injection Date: 05-MAY-2011 14:34
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.907	0.001	4507	60824	172.7	TFT(Surr)
15.450	0.002	3300	27406	174.8	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.96)	319505	819951	2.566
8015B 2MP-TMB (4.17 to 16.26)	652210	803865	1.233
AK101 nC6-nC10 (4.67 to 15.16)	527526	754184	1.430
NWTPHG Tol-Nap (9.85 to 18.98)	340084	820643	2.413

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.905	0.001	9839	175.8	TFT(Surr)
15.450	0.002	21394	179.9	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.064	-0.002	33669	90.47	Benzene
9.949	-0.001	32365	95.18	Toluene
12.853	-0.002	29127	100.19	Ethylbenzene
13.017	-0.005	63418	196.65	M/P-Xylene
13.973	-0.001	25443	100.85	O-Xylene
4.537	-0.001	11113	96.37	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pidl.1/vpcc0505-1.b/0505a010.d
Date : 05-MAY-2011 14:34

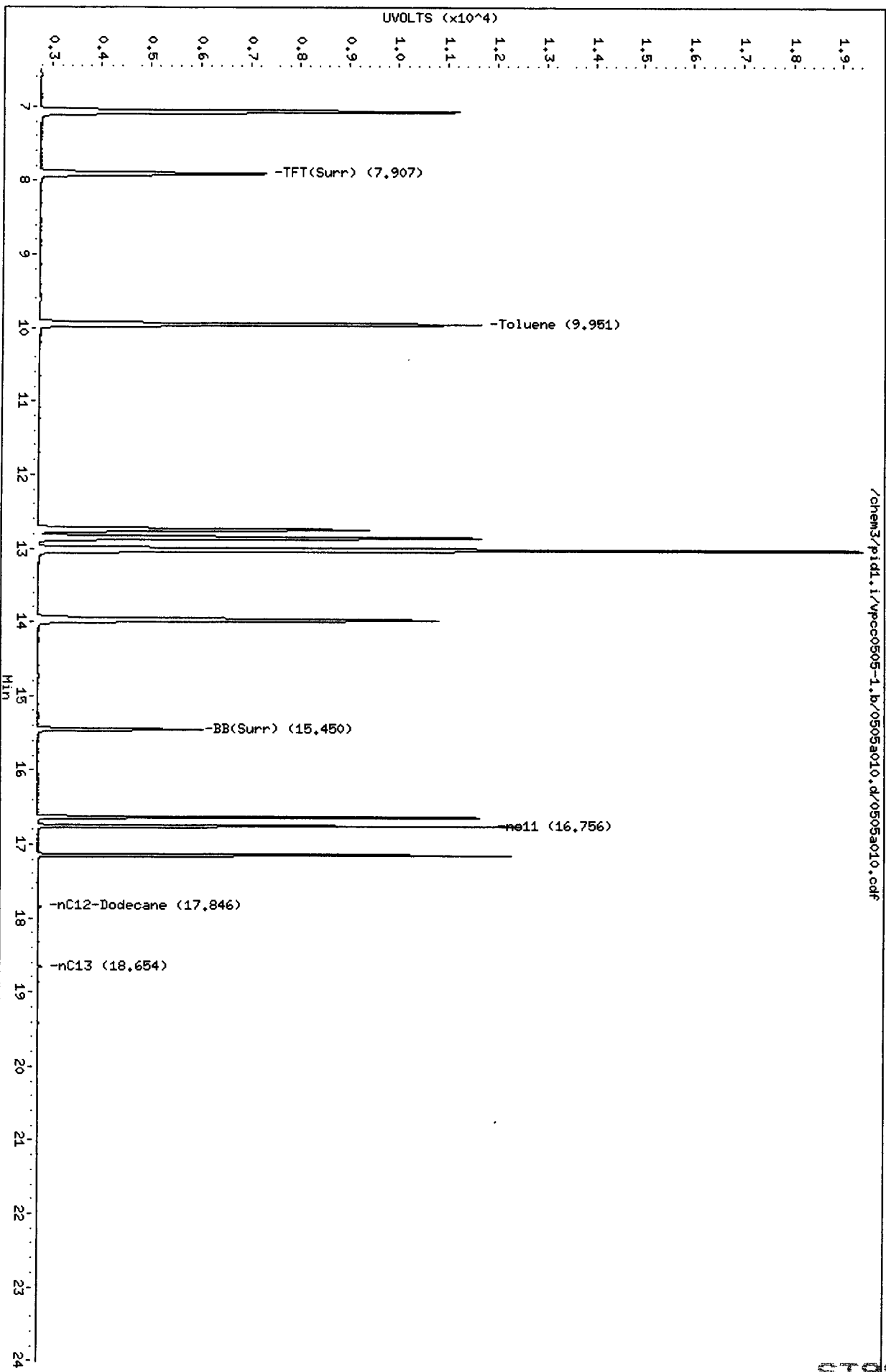
Page 1

Client ID:
Sample Info: BETX 100

Instrument: pidl.1

Column phase: RTX 502-2 FID

Operator: MH
Column diameter: 0.18



Data File: /chem3/pidl.i/vpcc0505-2.b/0505a010.d
Date : 05-MAY-2011 14:34

Page 1

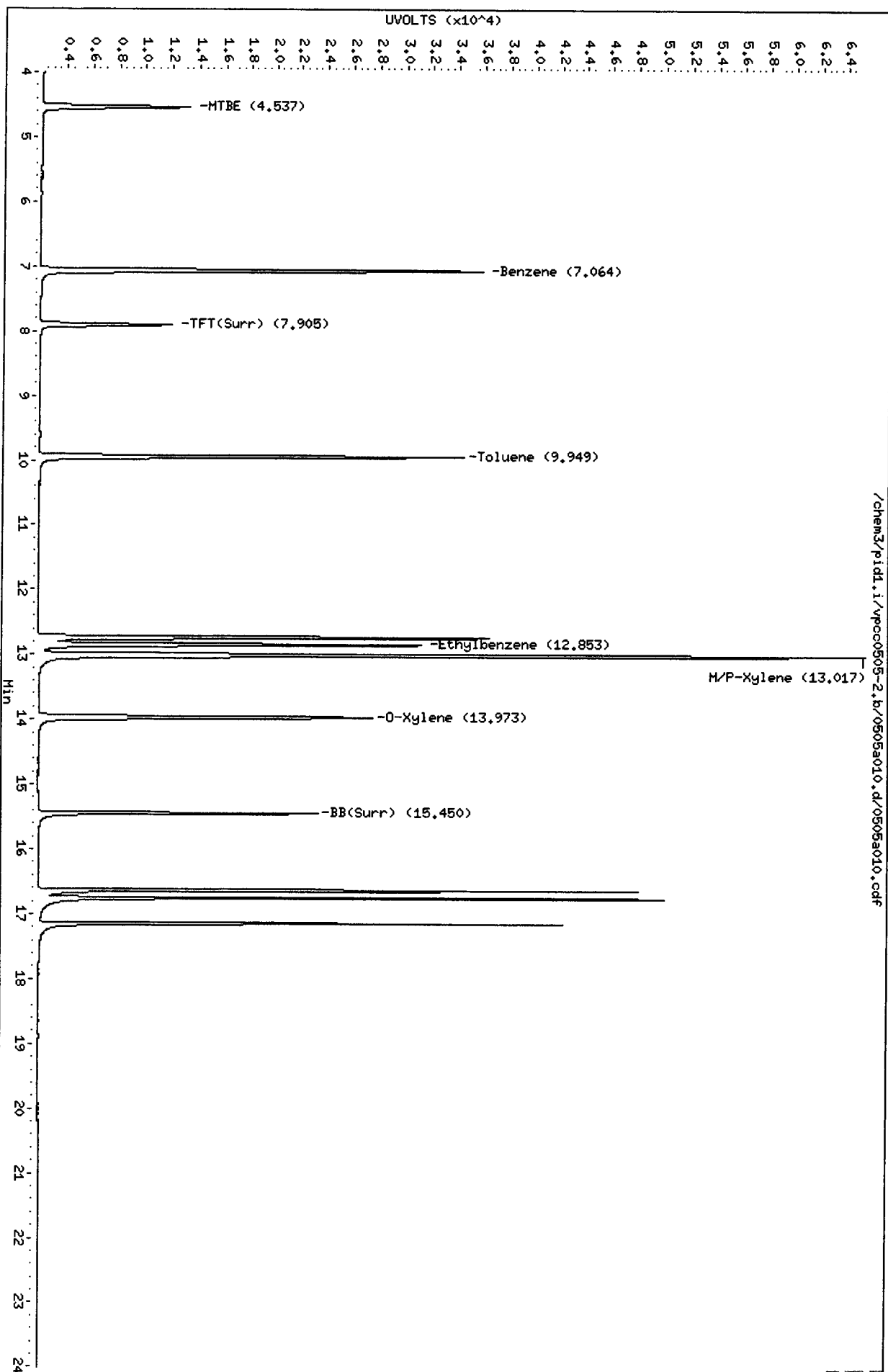
Client ID:

Instrument: pidl.i

Sample Info: BETX 100

Column phase: RTX 502-2 PID

Operator: HH
Column diameter: 0.18



ST98 : 01040

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a011.d ARI ID: BETX 200
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a011.d Client ID:
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m Injection Date: 05-MAY-2011 15:04
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.906	0.000	5023	68038	192.4	TFT(Surr)
15.448	0.000	3679	30529	194.9	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.96)	319505	1629344	5.100
8015B 2MP-TMB (4.17 to 16.26)	652210	1596899	2.448
AK101 nC6-nC10 (4.67 to 15.16)	527526	1497960	2.840
NWTPHG Tol-Nap (9.85 to 18.98)	340084	1629964	4.793

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.904	0.000	11037	197.2	TFT(Surr)
15.448	0.000	24144	203.0	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.066	0.000	67927	182.53	Benzene
9.950	0.000	65202	191.75	Toluene
12.855	0.000	58728	202.02	Ethylbenzene
13.022	0.000	126175	391.25	M/P-Xylene
13.974	0.000	51620	204.61	O-Xylene
4.539	0.000	22675	196.64	MTBE

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

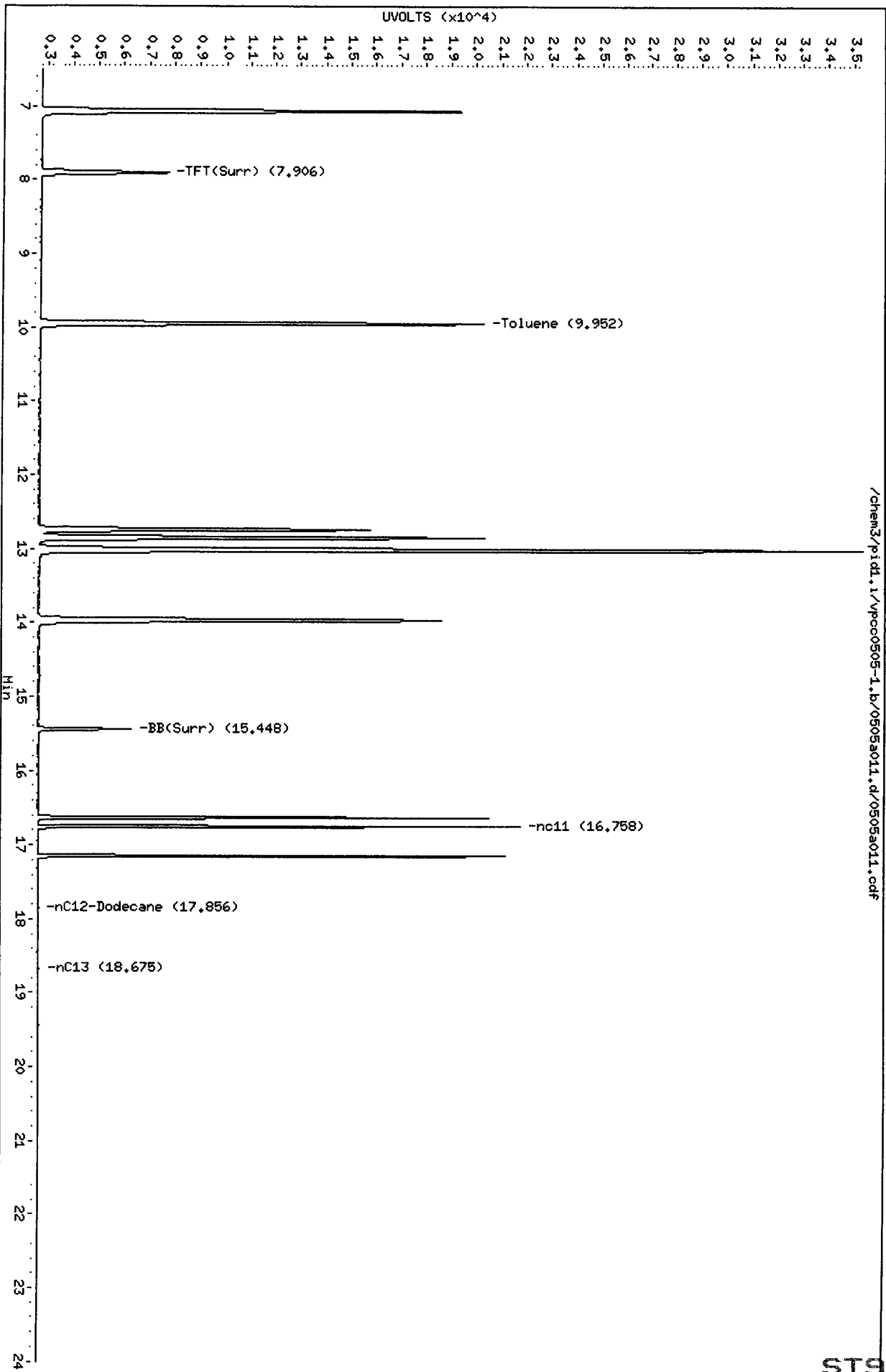
Data File: /chem3/pid1.1/vpcc0505-1.b/0505a011.d
Date: 05-MAY-2011 15:04

Client ID:
Sample Info: BETX 200

Instrument: pid1.i

Column phase: RTX 502-2 FID

Operator: HH
Column diameter: 0.18

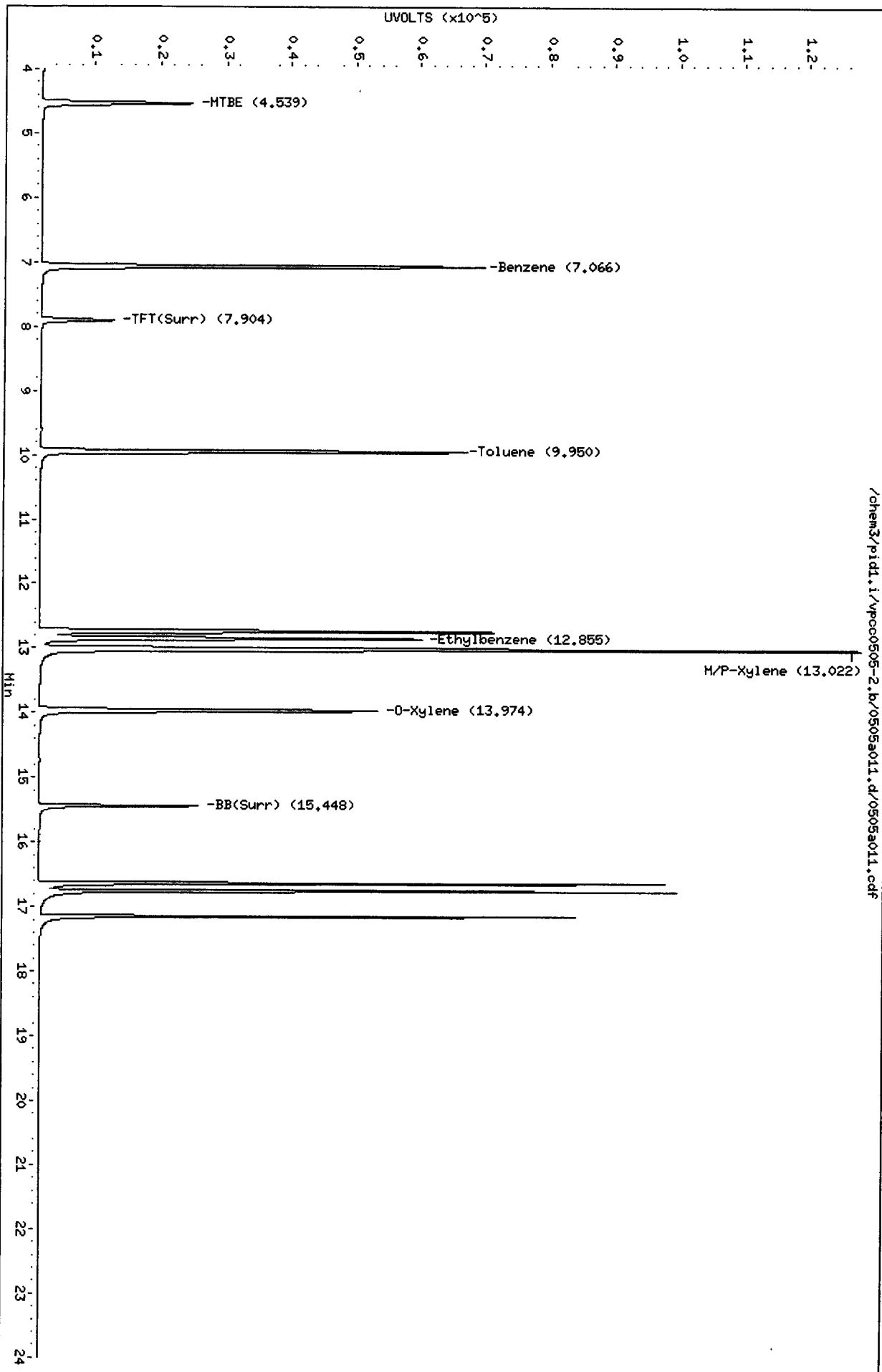


Data File: /chem3/pidl.1/vpcc0505-2.b/0505a011.d
Date: 05-MAY-2011 15:04
Client ID:
Sample Info: BETX 200

Column phase: RTX 502-2 PID

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

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ST98: 01043

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a012.d ARI ID: BETX ICV
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a012.d Client ID:
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m Injection Date: 05-MAY-2011 15:33
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	-----	-----
7.907	0.000	2508	33725	96.1	TFT(Surr)
15.449	0.001	1879	15537	99.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	-----	-----	-----
WAGas Tol-C12 (9.85 to 17.96)	319505	226315	0.708
8015B 2MP-TMB (4.17 to 16.26)	652210	219810	0.337
AK101 nC6-nC10 (4.67 to 15.16)	527526	205657	0.390
NWTPHG Tol-Nap (9.85 to 18.98)	340084	226943	0.667

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	-----	-----
7.904	0.000	5373	96.0	TFT(Surr)
15.448	0.001	11815	99.4	BB(Surr)

SW8021 (PID)

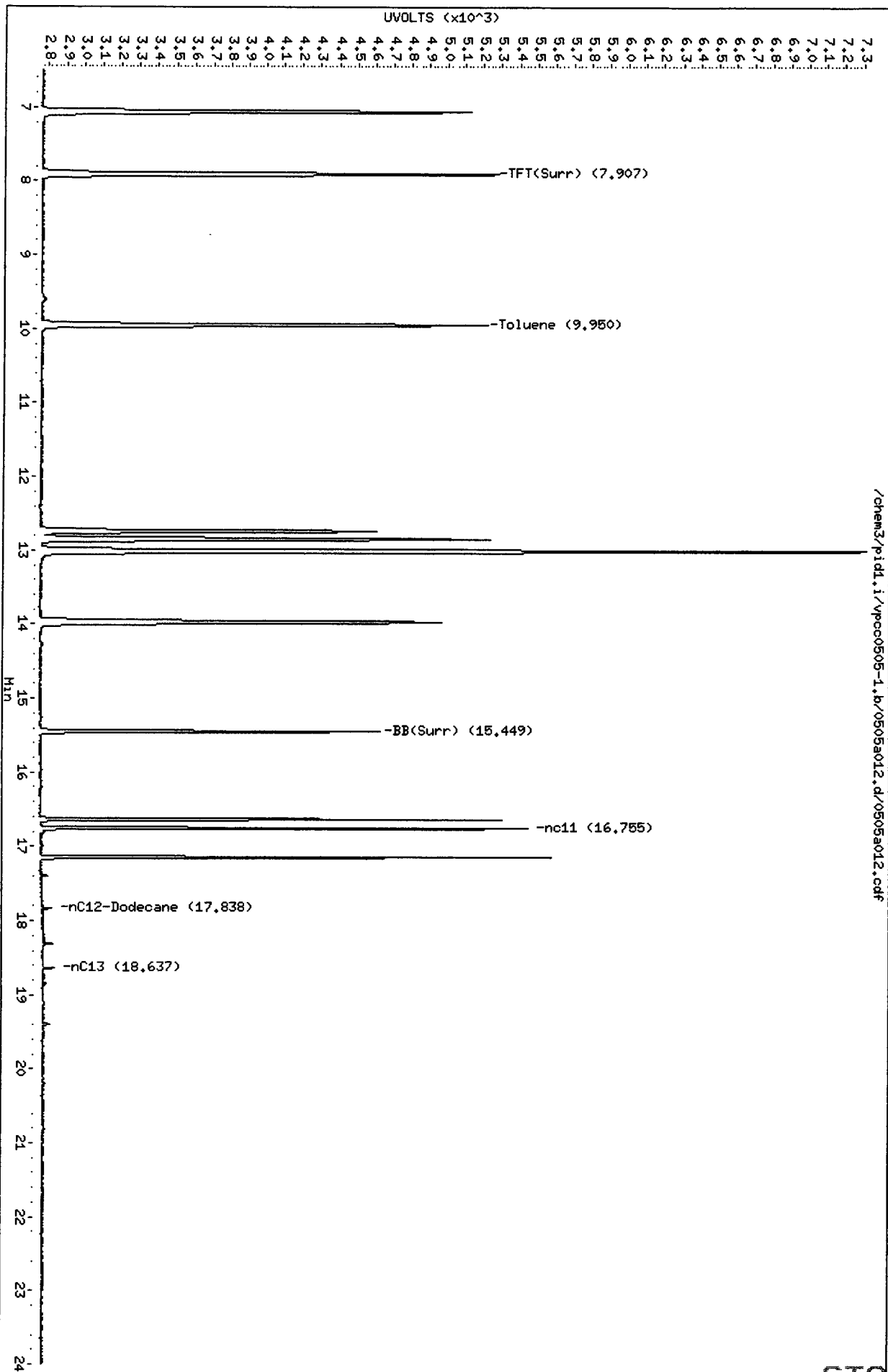
RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
7.059	-0.007	9096	24.44	Benzene
9.948	-0.002	8417	24.75	Toluene
12.850	-0.005	7584	26.09	Ethylbenzene
13.012	-0.010	16238	50.35	M/P-Xylene
13.970	-0.004	6546	25.95	O-Xylene
4.537	-0.002	3123	27.08	MTBE

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

Data File: /chem3/pidl.i/vpcc0505-1.b/0505a012.d
Date : 05-MAY-2011 15:33
Client ID:
Sample Info: BETX ICV

Column phase: RTX 502-2 FID

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

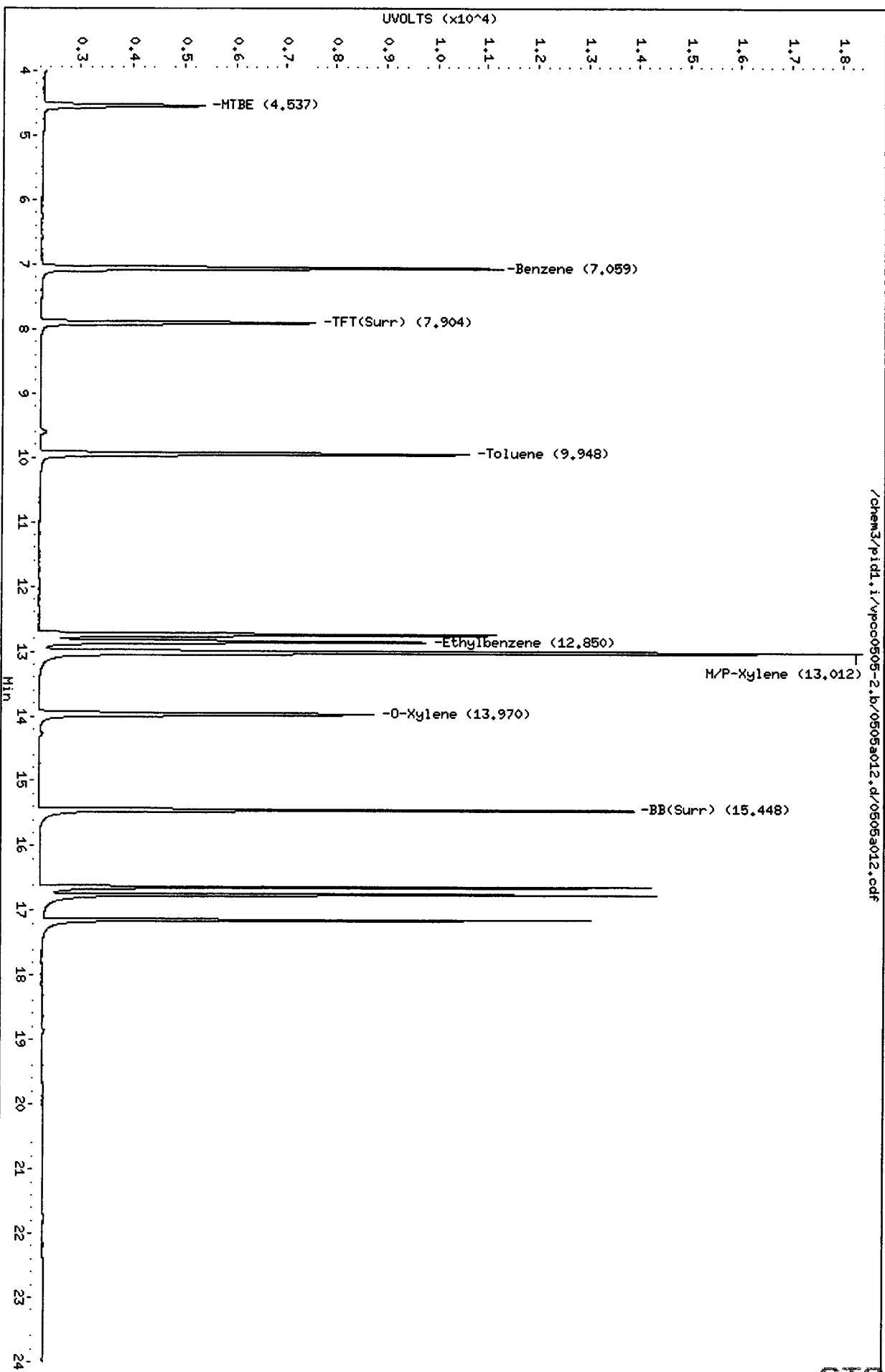


Data File: /chem3/pidl.i/vpcc0505-2.b/0505a012.d
Date: 05-MAY-2011 15:33
Client ID:
Sample Info: BETX ICV

Column phase: RTX 502-2 PID

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

Page 1



ST98: 01046

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid1.i/vpcc0505-1.b/FID.m
Batch File: /chem3/pid1.i/vpcc0505-1.b
Inst ID: pid1.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT WINDOW	AVG RT	STD DEV
FILENAME:	0505a005	0505a006	0505a007	0505a008	0505a009	0505a010	0505a011			
INJ. DATE:	05-MAY-2011	05-MAY-2011	05-MAY-2011	05-MAY-2011	05-MAY-2011	05-MAY-2011	05-MAY-2011			
INJ. TIME:	12:09	12:38	13:07	13:36	14:05	14:34	15:04			
Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	AVG RT	STD DEV
18 NWTPHG	++++	++++	++++	++++	++++	++++	++++	0.492	7.906	0.002
20 WAGAS	++++	++++	++++	++++	++++	++++	++++	0.937	7.906	0.002
19 AK101	++++	++++	++++	++++	++++	++++	++++	1.251	7.906	0.002
21 801SGAS	++++	++++	++++	++++	++++	++++	++++	1.539	7.906	0.002
1 2-Methylpentane	++++	++++	++++	++++	++++	++++	++++	4.268	7.906	0.002
2 nC6	++++	++++	++++	++++	++++	++++	++++	4.774	7.906	0.002
3 nC7	++++	++++	++++	++++	++++	++++	++++	6.859	7.906	0.002
\$ 4 TFT(Surr)	7.905	7.904	7.905	7.906	7.908	7.907	7.905	7.905	7.906	0.002
5 nC8	++++	++++	++++	++++	++++	++++	++++	9.543	7.906	0.002
6 Toluene	9.946	9.949	9.948	9.949	9.951	9.951	9.952	9.946	7.906	0.002
7 nC9	++++	++++	++++	++++	++++	++++	++++	12.478	7.906	0.002
\$ 22 BFB(Surr)	++++	++++	++++	++++	++++	++++	++++	16.027	7.906	0.002
8 nC10-Decane	15.260	++++	++++	++++	++++	++++	++++	15.260	7.906	0.002
\$ 9 BB(Surr)	15.449	15.448	15.449	15.449	15.450	15.450	15.448	15.449	7.906	0.002
10 1,2,4-Trimethylbenzene	++++	++++	++++	++++	++++	++++	++++	16.159	7.906	0.002
11 nC11	16.756	16.756	16.754	16.755	16.756	16.756	16.758	16.756	7.906	0.002
12 nC12-Dodecane	17.836	17.836	17.838	17.844	17.845	17.846	17.856	17.836	7.906	0.002

Reviewer 1 RTH
Reviewer 2 [Signature]
Date: 5/9/11
Date: 5/9/11

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid1.i/vpcc0505-2.b/PIDB.m
Batch File: /chem3/pid1.i/vpcc0505-2.b
Inst ID: pid1.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV	
FILENAME: 0505a005	0505a006	0505a007	0505a008	0505a009	0505a010	0505a011	05-MAY-2011 12:38	05-MAY-2011 13:07	05-MAY-2011 13:36	05-MAY-2011 14:05	05-MAY-2011 14:34	05-MAY-2011 15:04
INJ.DATE: 05-MAY-2011	05-MAY-2011	05-MAY-2011	05-MAY-2011	05-MAY-2011	05-MAY-2011	05-MAY-2011	13:07	13:07	13:36	14:05	14:34	15:04
INJ.TIME: 12:09	12:38	13:07	13:36	14:05	14:34	15:04						
Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV	
1 MTBE	4.537	4.533	4.534	4.536	4.538	4.537	4.539	4.537	4.487-4.587	4.536	0.002	
2 Benzene	7.053	7.053	7.054	7.058	7.063	7.064	7.066	7.053	7.003-7.103	7.059	0.006	
3 TBT(Surr)	7.903	7.902	7.903	7.904	7.906	7.905	7.904	7.903	7.853-7.953	7.904	0.001	
4 Toluene	9.947	9.947	9.946	9.947	9.949	9.949	9.949	9.947	9.897-9.997	9.948	0.002	
15 Chlorobenzene	12.847	12.850	12.849	12.850	12.852	12.853	12.855	12.847	12.797-12.897	12.851	0.003	
5 Ethylbenzene	13.013	13.011	13.010	13.012	13.015	13.017	13.022	13.013	12.963-13.063	13.014	0.004	
7 O-Xylene	13.973	13.967	13.969	13.969	13.972	13.973	13.974	13.973	13.943-14.003	13.971	0.003	
19 BFB(Surr)	15.450	15.447	15.448	15.449	15.449	15.450	15.448	16.006	15.976-16.036	15.449	0.001	
8 BB(Surr)	15.450	15.447	15.448	15.449	15.449	15.450	15.448	16.433	16.403-16.463	15.449	0.001	
13 1,3,5 Trimethyl Benzen	16.905	16.905	16.905	16.905	16.905	16.905	16.905	16.905	16.875-16.935	16.905	0.001	
14 1,2,4 Trimethyl Benzen	16.863	16.863	16.863	16.863	16.863	16.863	16.863	16.863	16.833-16.893	16.863	0.001	
16 1,3 Dichlorobenzene	16.979	16.979	16.979	16.979	16.979	16.979	16.979	16.979	16.949-17.009	16.979	0.001	
17 1,4 Dichlorobenzene	17.371	17.371	17.371	17.371	17.371	17.371	17.371	17.371	17.341-17.401	17.371	0.001	
18 1,2 Dichlorobenzene	17.371	17.371	17.371	17.371	17.371	17.371	17.371	17.371	17.341-17.401	17.371	0.001	

Reviewer 1 M H Date: 5/9/11
Reviewer 2 Date:

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a014.d ARI ID: GAS .1
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a014.d Client ID:
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m Injection Date: 05-MAY-2011 16:31
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.907	0.001	2443	33830	93.6	TFT(Surr)
15.450	0.002	1822	15867	96.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.96)	319505	33623	0.105 M
8015B 2MP-TMB (4.17 to 16.26)	652210	69378	0.106 M
AK101 nC6-nC10 (4.67 to 15.16)	527526	56916	0.108 M
NWTPHG Tol-Nap (9.85 to 18.98)	340084	36506	0.107 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.905	0.001	5135	91.7	TFT(Surr)
15.449	0.001	11482	96.6	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.056	-0.011	154	0.41	Benzene
9.949	-0.001	1233	3.63	Toluene
12.851	-0.005	307	1.06	Ethylbenzene
13.014	-0.008	1240	3.85	M/P-Xylene
13.971	-0.003	447	1.77	O-Xylene
ND	---	---	---	MTBE

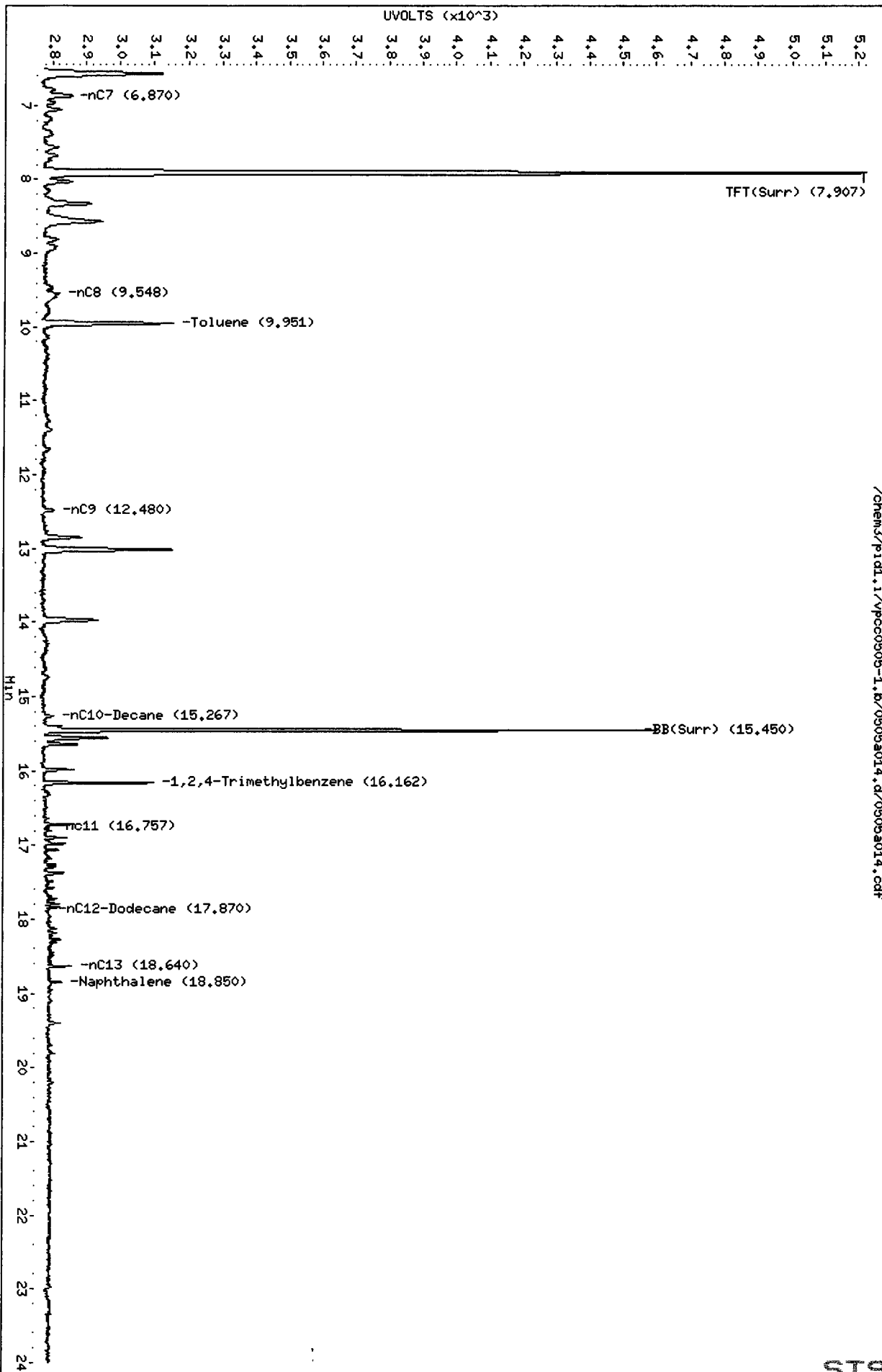
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0505-1.b/0505a014.d
Date : 05-MAY-2011 16:31
Client ID:
Sample Info: GAS .1

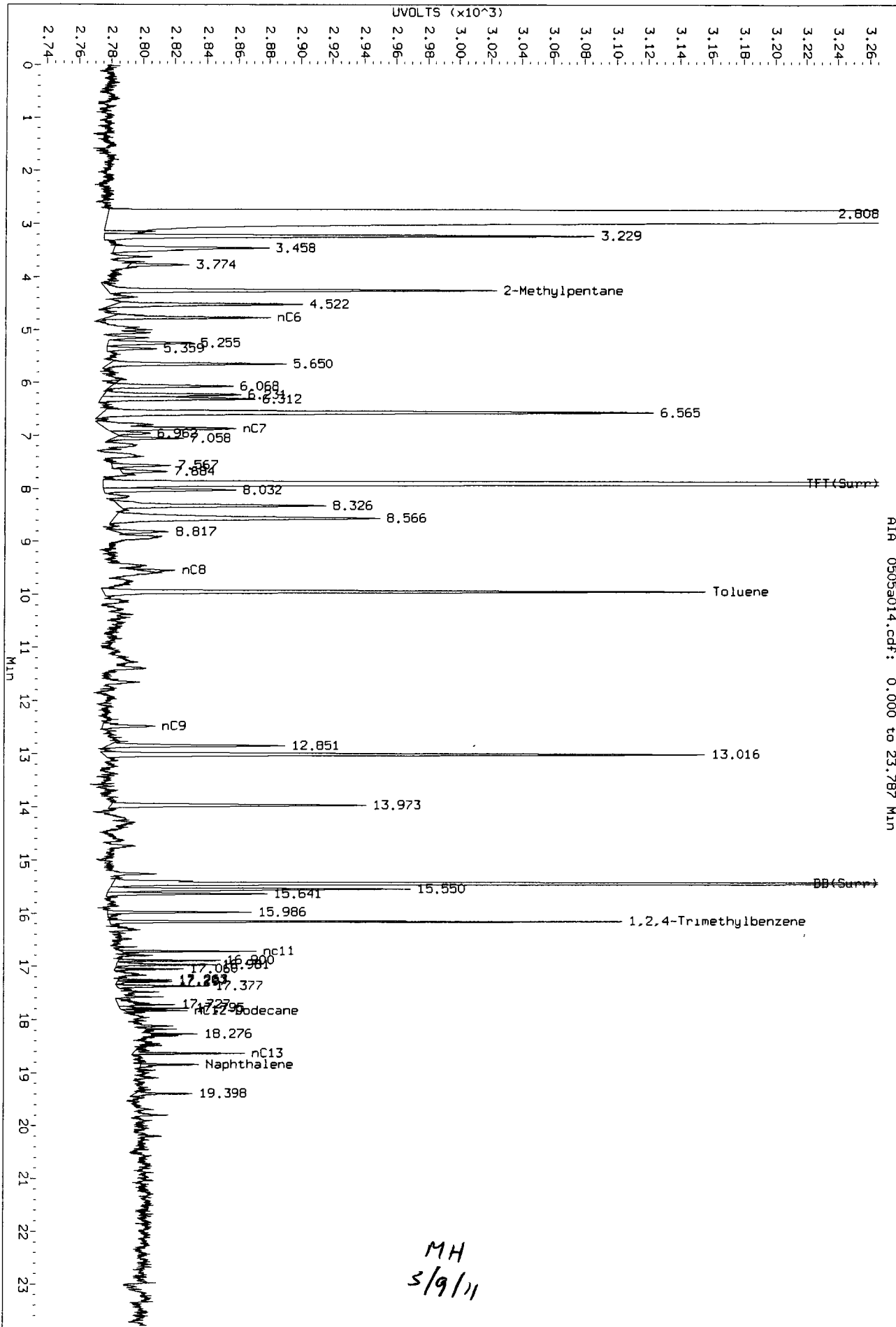
Column phase: RTX 502-2 FID

/chem3/pid1.i/vpcc0505-1.b/0505a014.d/0505a014.cdf

Instrument: pid1.1
Operator: MH
Column diameter: 0.18



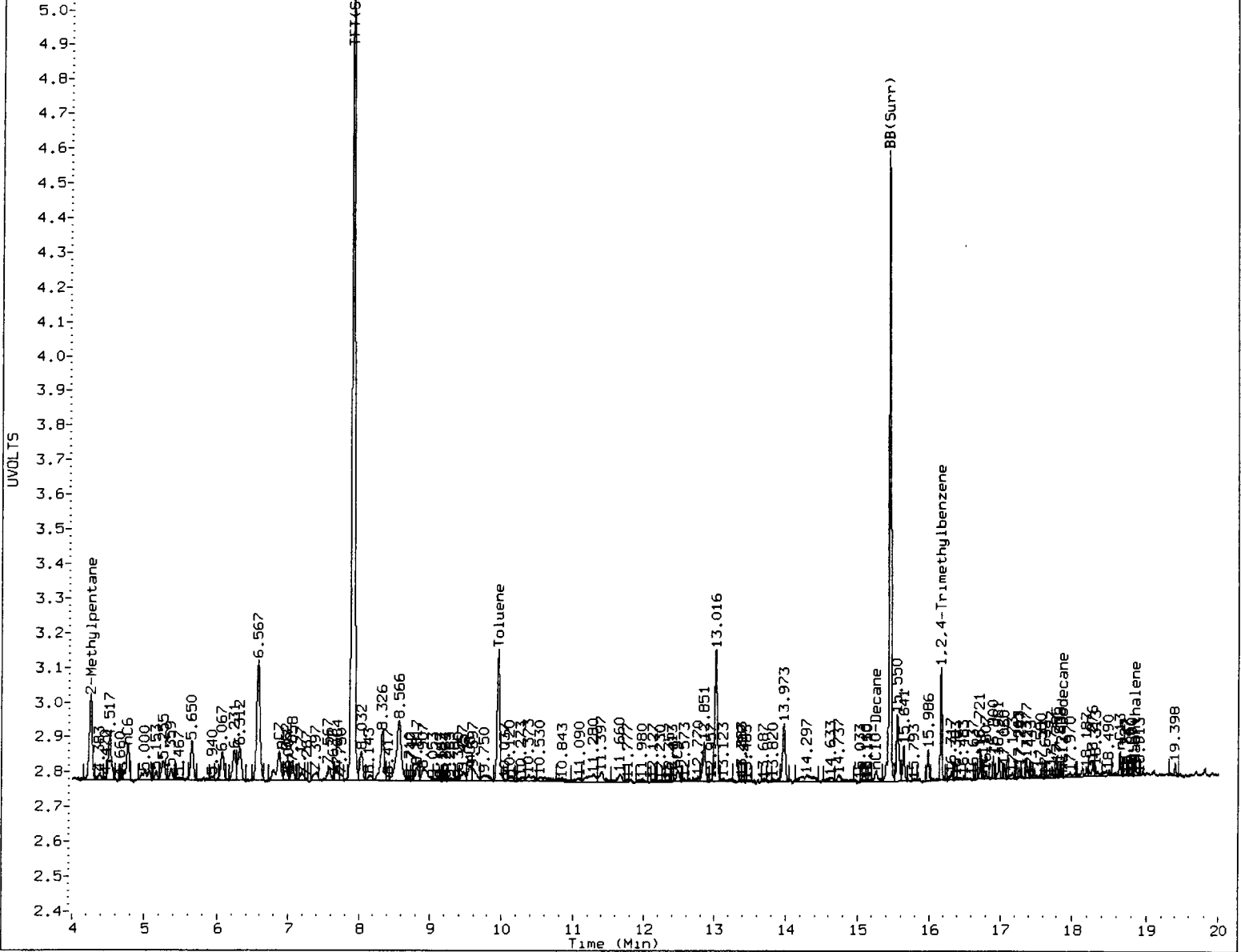
Data File: /chem3/pid1.1/vpcc0505-1.b/0505a014.d/0505a014.cdf
Injection Date: 05-MAY-2011 16:31
Instrument: pid1.1
Client Sample ID:



AIA 0505a014.cdf: 0.000 to 23.787 Min

MH
5/9/11

FID GAS .1



MANUAL INTEGRATION

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

Analyst: MH

Date: 5/9/11

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a015.d ARI ID: GAS .25
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a015.d Client ID:
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m Injection Date: 05-MAY-2011 17:00
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.907	0.000	2475	34823	94.8	TFT(Surr)
15.449	0.001	1831	15591	97.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.96)	319505	80415	0.252 M
8015B 2MP-TMB (4.17 to 16.26)	652210	163176	0.250 M
AK101 nC6-nC10 (4.67 to 15.16)	527526	131016	0.248 M
NWTPHG Tol-Nap (9.85 to 18.98)	340084	86074	0.253 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.905	0.001	5240	93.6	TFT(Surr)
15.449	0.001	11642	97.9	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.056	-0.011	347	0.93	Benzene
9.948	-0.002	3055	8.98	Toluene
12.850	-0.005	787	2.71	Ethylbenzene
13.014	-0.008	3080	9.55	M/P-Xylene
13.971	-0.004	1125	4.46	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

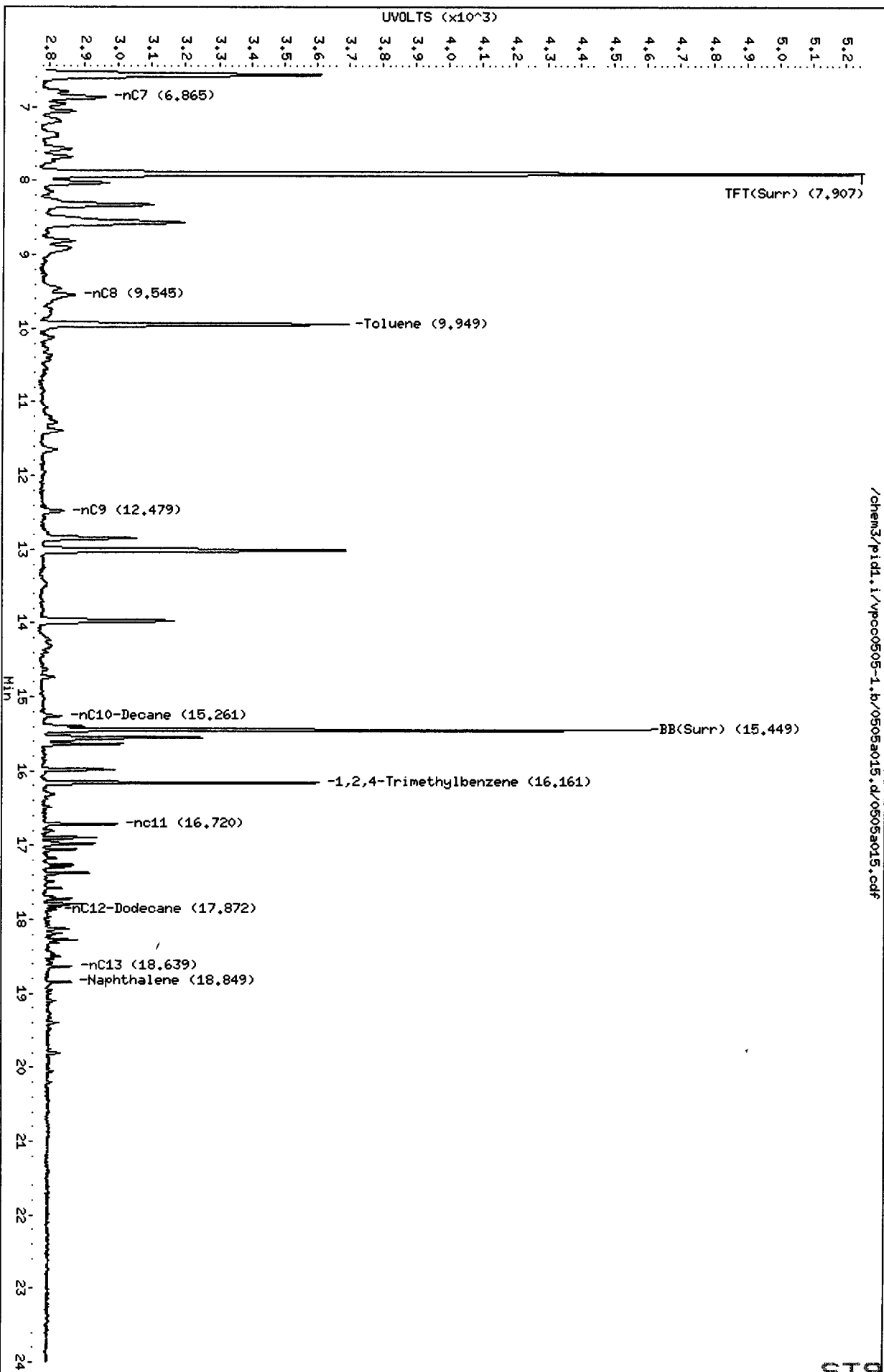
Data File: /chem3/pid1.i/vpcc0505-1.b/0505a015.d
Date : 05-MAY-2011 17:00
Client ID:
Sample Info: GAS .25

Column phase: RTX 502-2 FID

/chem3/pid1.i/vpcc0505-1.b/0505a015.d/0505a015.cdf

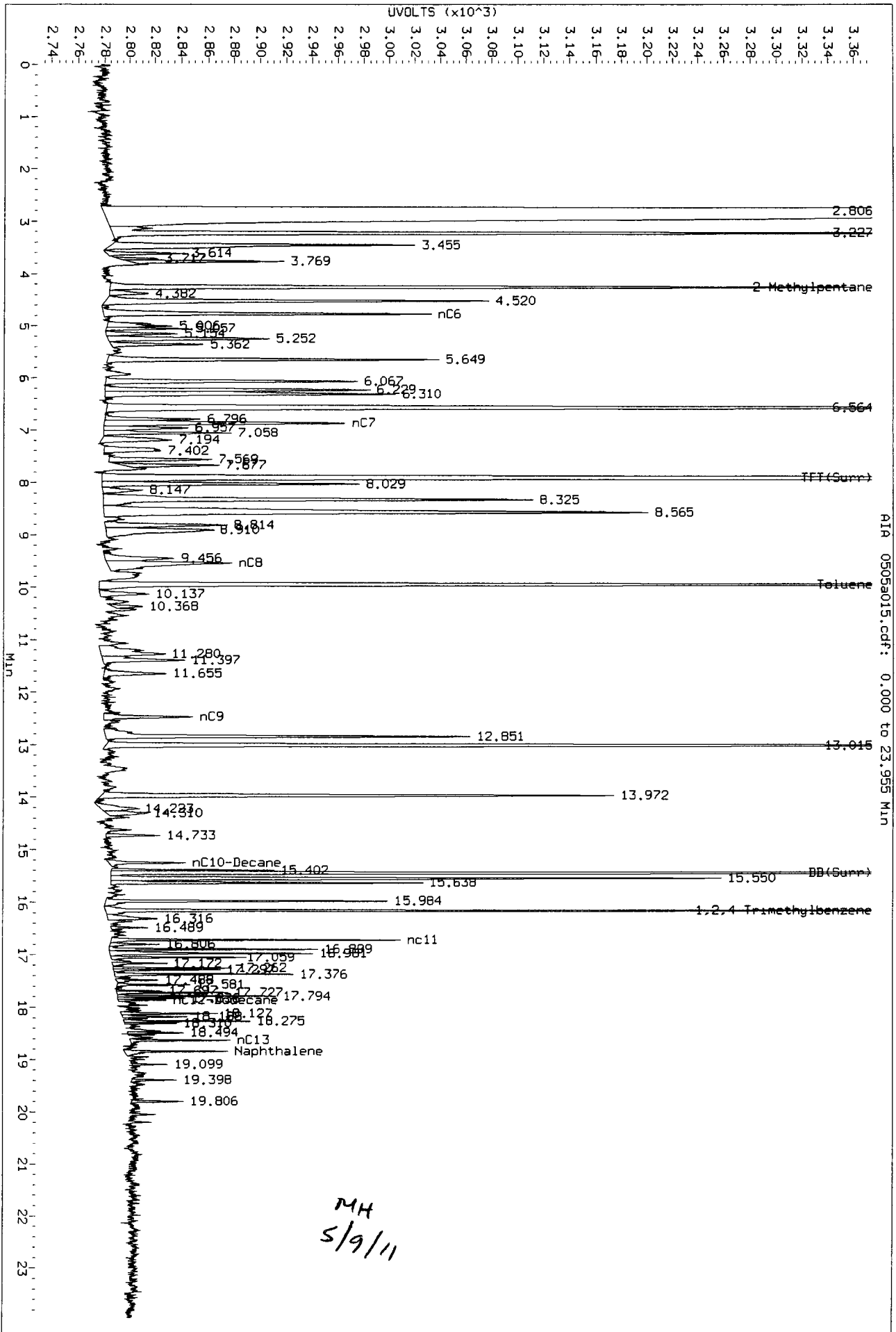
Instrument: pid1.i
Operator: HH
Column diameter: 0.18

Page 1



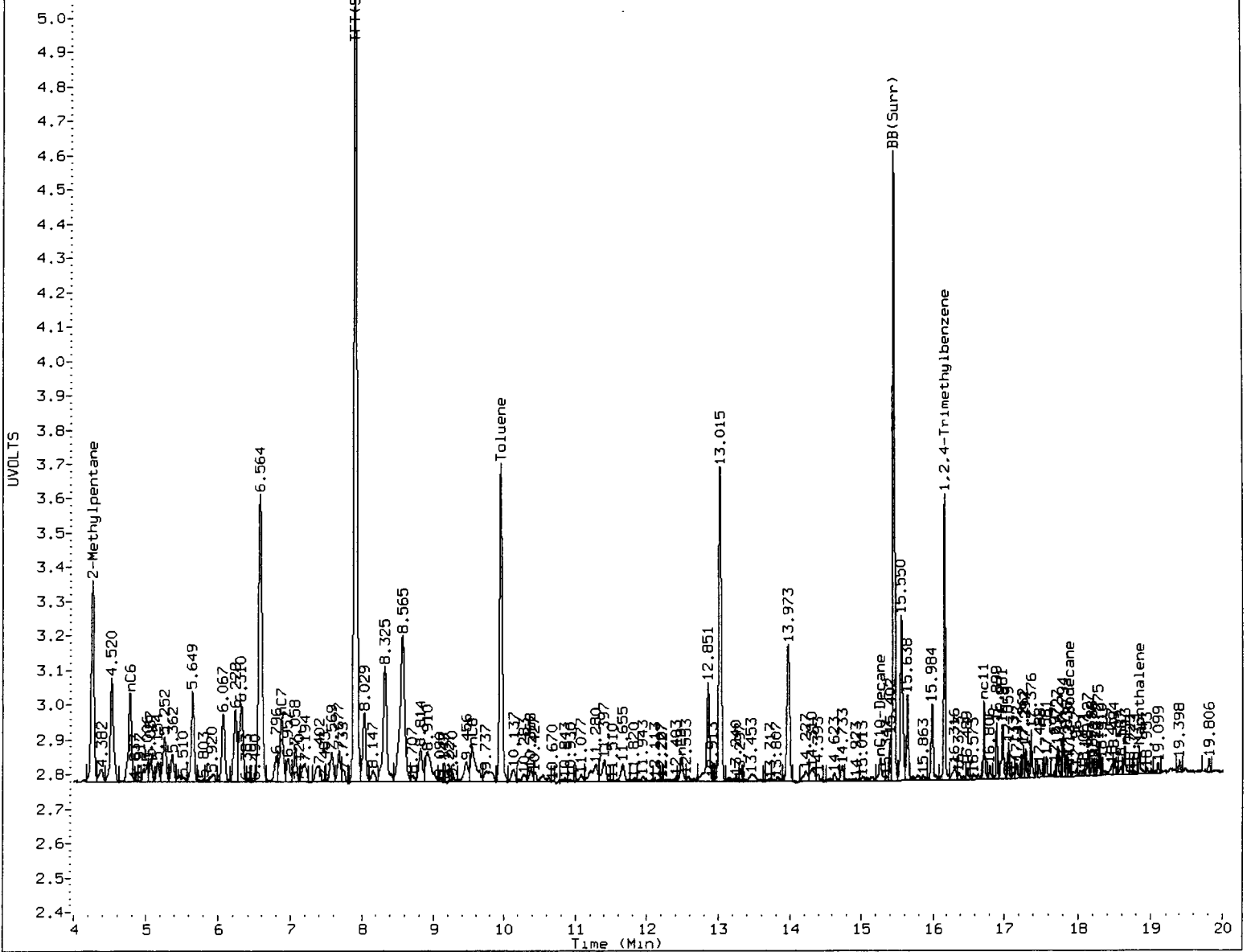
ST98 : 01054

Data File: /chem3/pid1.1/vpcc0505-1.b/0505a015.d/0505a015.cdf
Injection Date: 05-MAY-2011 17:00
Instrument: pid1.1
Client Sample ID:



MH
5/9/11

5.1 FID GAS .25



MANUAL INTEGRATION

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

Analyst: MH

Date: 5/9/11

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a016.d ARI ID: GAS 1
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a016.d Client ID:
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m Injection Date: 05-MAY-2011 17:30
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.906	0.000	2644	40335	101.3	TFT(Surr)
15.449	0.001	1868	16342	99.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.96)	319505	304072	0.952 M
8015B 2MP-TMB (4.17 to 16.26)	652210	630988	0.967 M
AK101 nC6-nC10 (4.67 to 15.16)	527526	506656	0.960 M
NWTPHG Tol-Nap (9.85 to 18.98)	340084	323980	0.953 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.904	0.000	5514	98.5	TFT(Surr)
15.449	0.001	11873	99.9	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.063	-0.003	1246	3.35	Benzene
9.948	-0.002	12410	36.50	Toluene
12.850	-0.005	3161	10.87	Ethylbenzene
13.014	-0.008	12525	38.84	M/P-Xylene
13.970	-0.004	4509	17.87	O-Xylene
4.528	-0.010	238	2.06	MTBE

A Indicates Peak Area was used for quantitation instead of Height

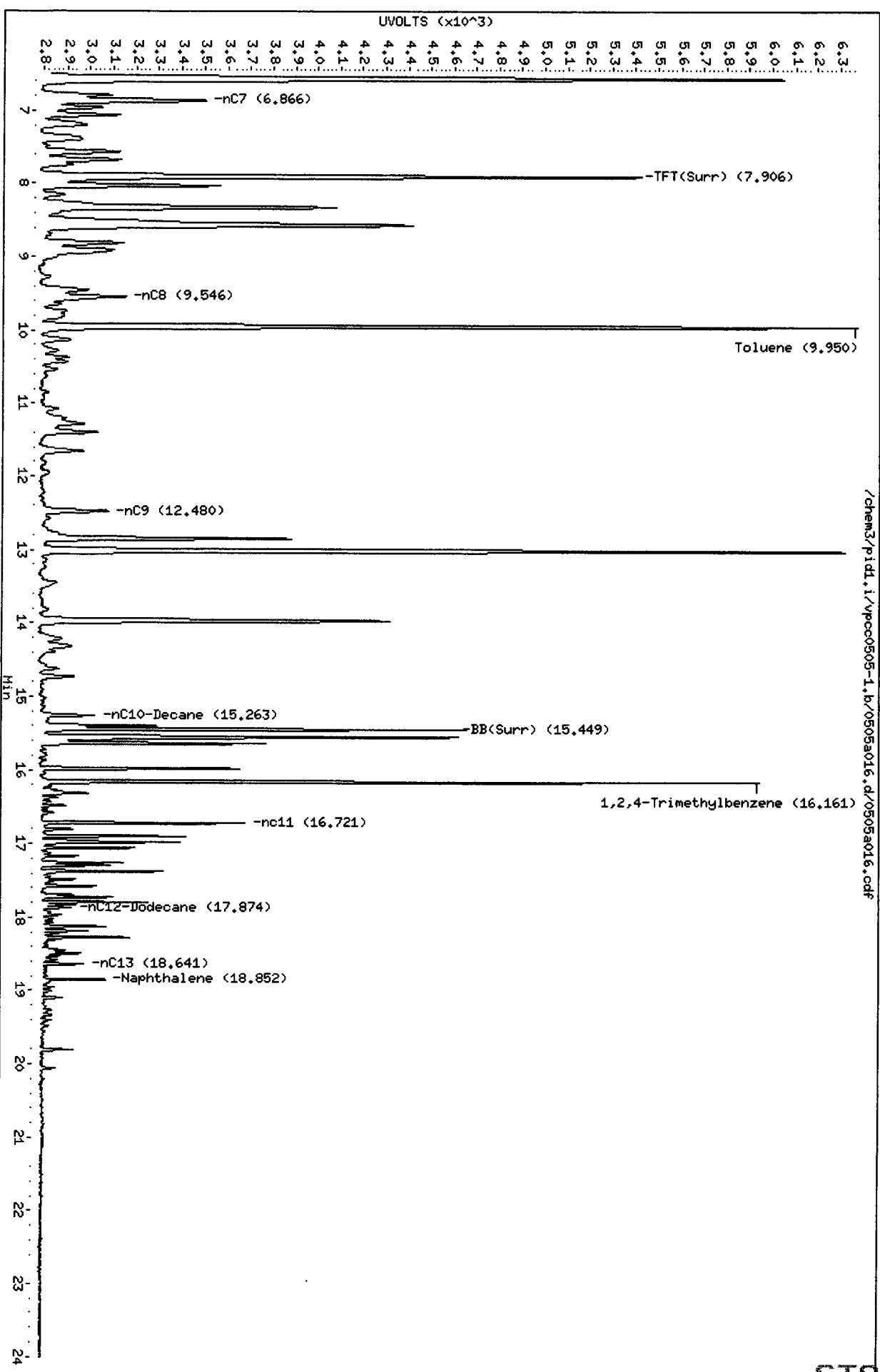
N Indicates peak peak was manually integrated

Data File: /chem3/pidl.i/vpcc0505-1.b/0505a016.d
Date : 05-MAY-2011 17:30
Client ID:
Sample Info: GAS 1

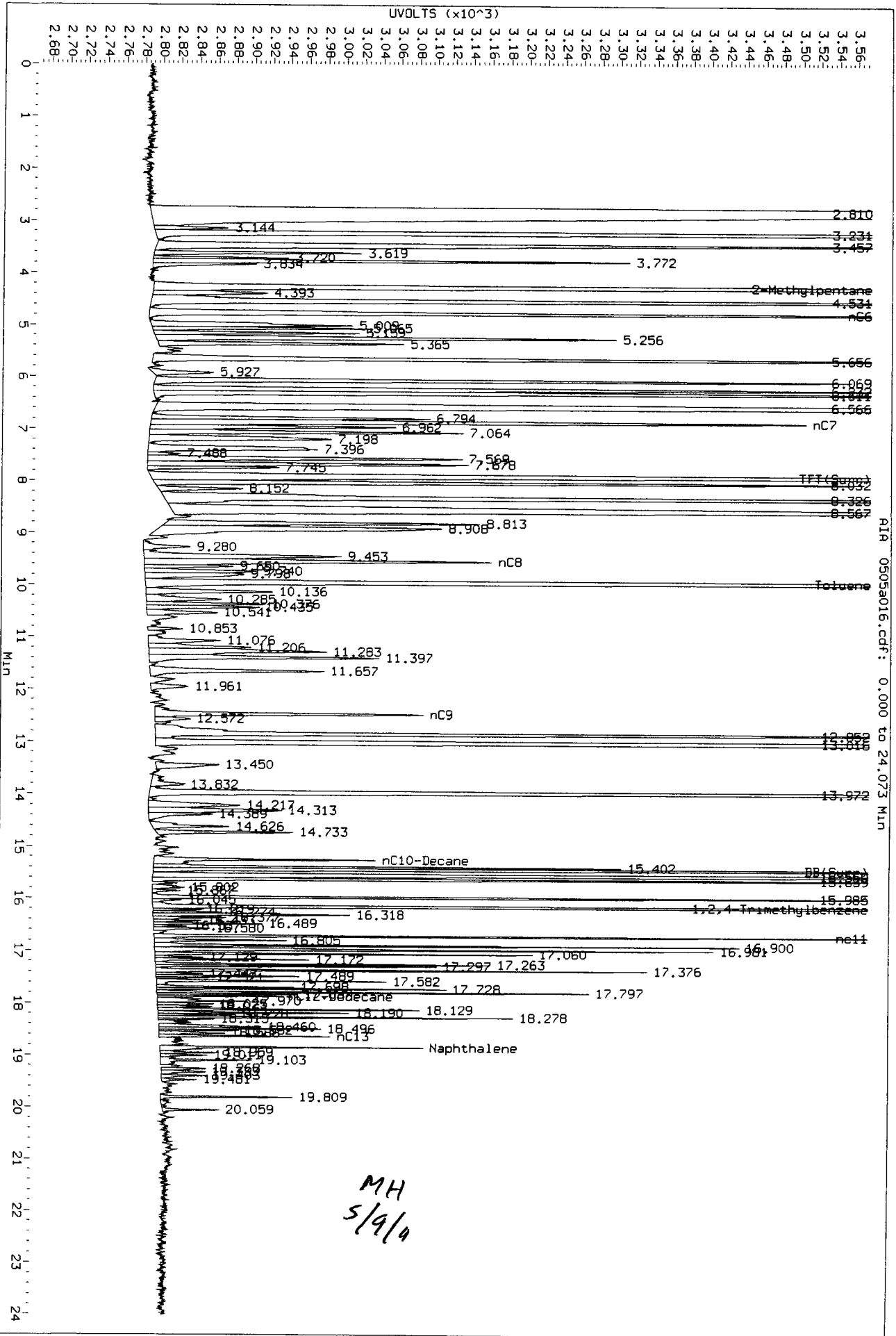
Column phase: RTX 502-2 FID

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

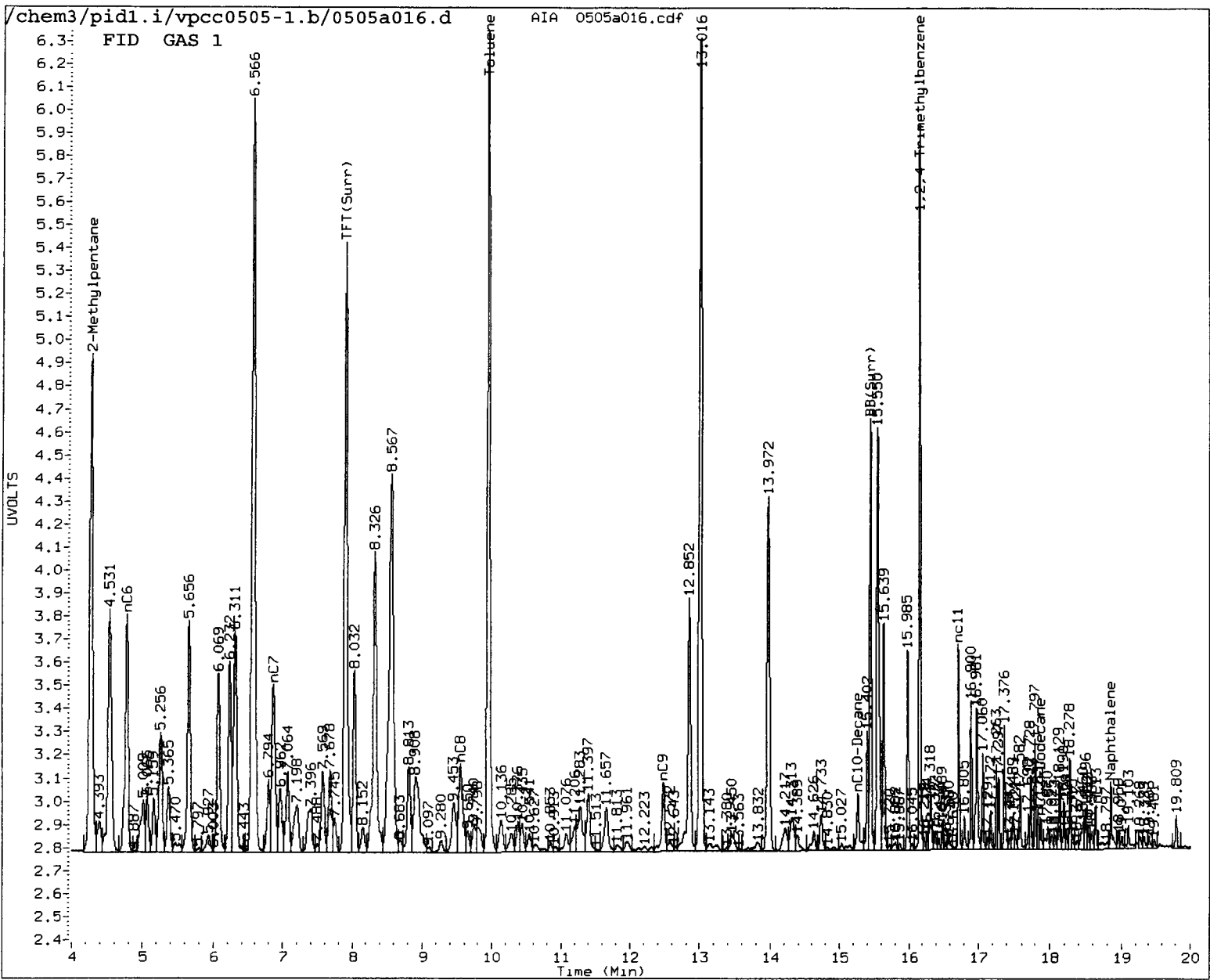
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Data File: /chem3/pld1.1/vpcc0505-1.b/0505a016.d/0505a016.cdf
 Injection Date: 05-MAY-2011 17:30
 Instrument: pld1.1
 Client Sample ID:



MH
5/9/11



MANUAL INTEGRATION

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

Analyst: MH Date: 5/9/77

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a017.d ARI ID: GAS 2.5
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a017.d Client ID:
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m Injection Date: 05-MAY-2011 17:59
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.905	-0.002	2757	47854	105.6	TFT(Surr)
15.449	0.001	1900	17377	100.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.96)	319505	781992	2.448 M
8015B 2MP-TMB (4.17 to 16.26)	652210	1565032	2.400 M
AK101 nC6-nC10 (4.67 to 15.16)	527526	1252284	2.374 M
NWTPHG Tol-Nap (9.85 to 18.98)	340084	825391	2.427 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.903	-0.001	5602	100.1	TFT(Surr)
15.449	0.001	12013	101.0	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.065	-0.001	3015	8.10	Benzene
9.948	-0.002	31092	91.44	Toluene
12.850	-0.005	7917	27.23	Ethylbenzene
13.016	-0.006	31311	97.09	M/P-Xylene
13.970	-0.004	11316	44.85	O-Xylene
4.539	0.000	569	4.93	MTBE

A Indicates Peak Area was used for quantitation instead of Height

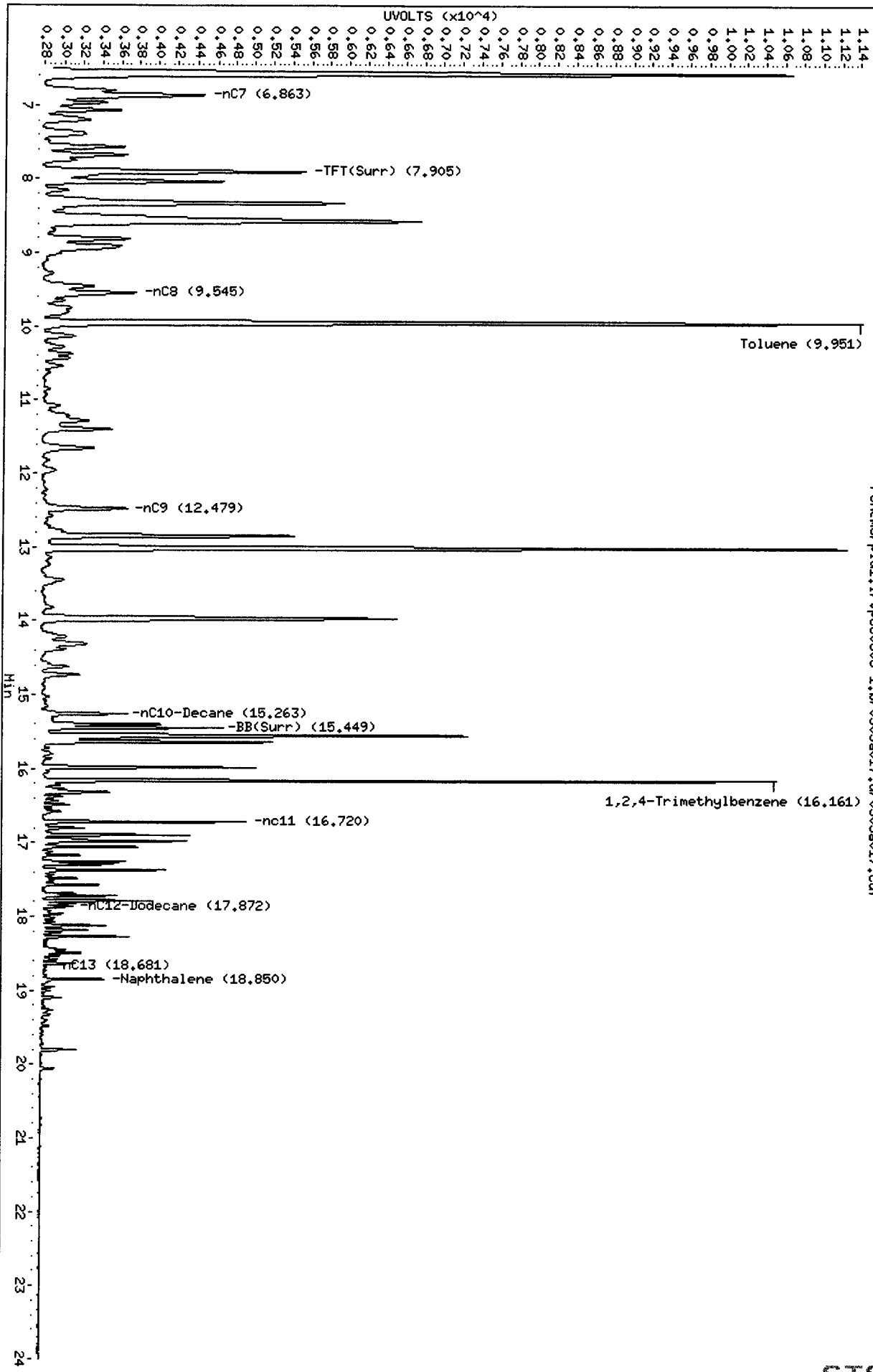
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0505-1.b/0505a017.d
Date: 05-MAY-2011 17:59
Client ID:
Sample Info: GAS 2.5

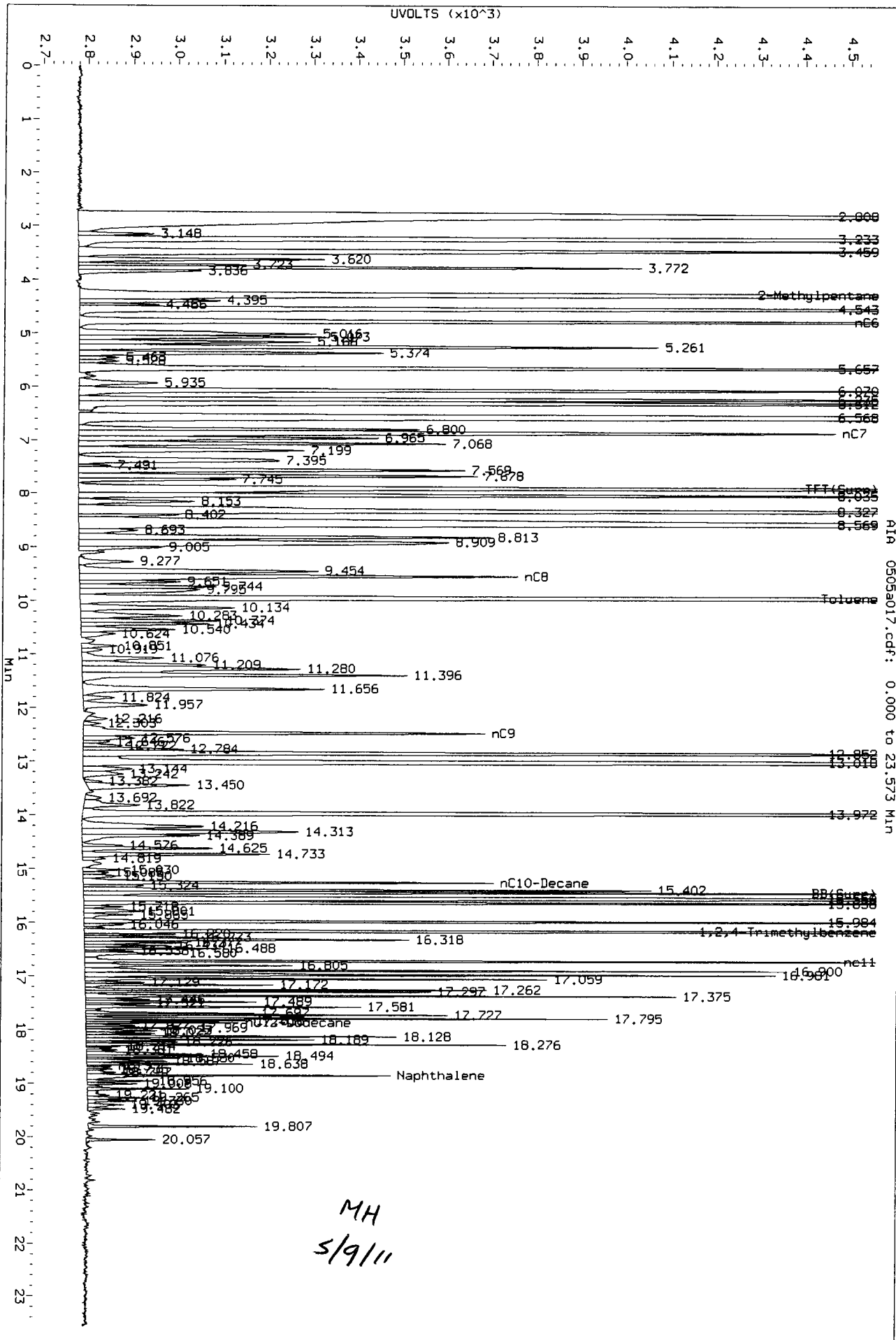
Column phase: RTX 502-2 FID

Instrument: pid1.i
Operator: HH
Column diameter: 0.18

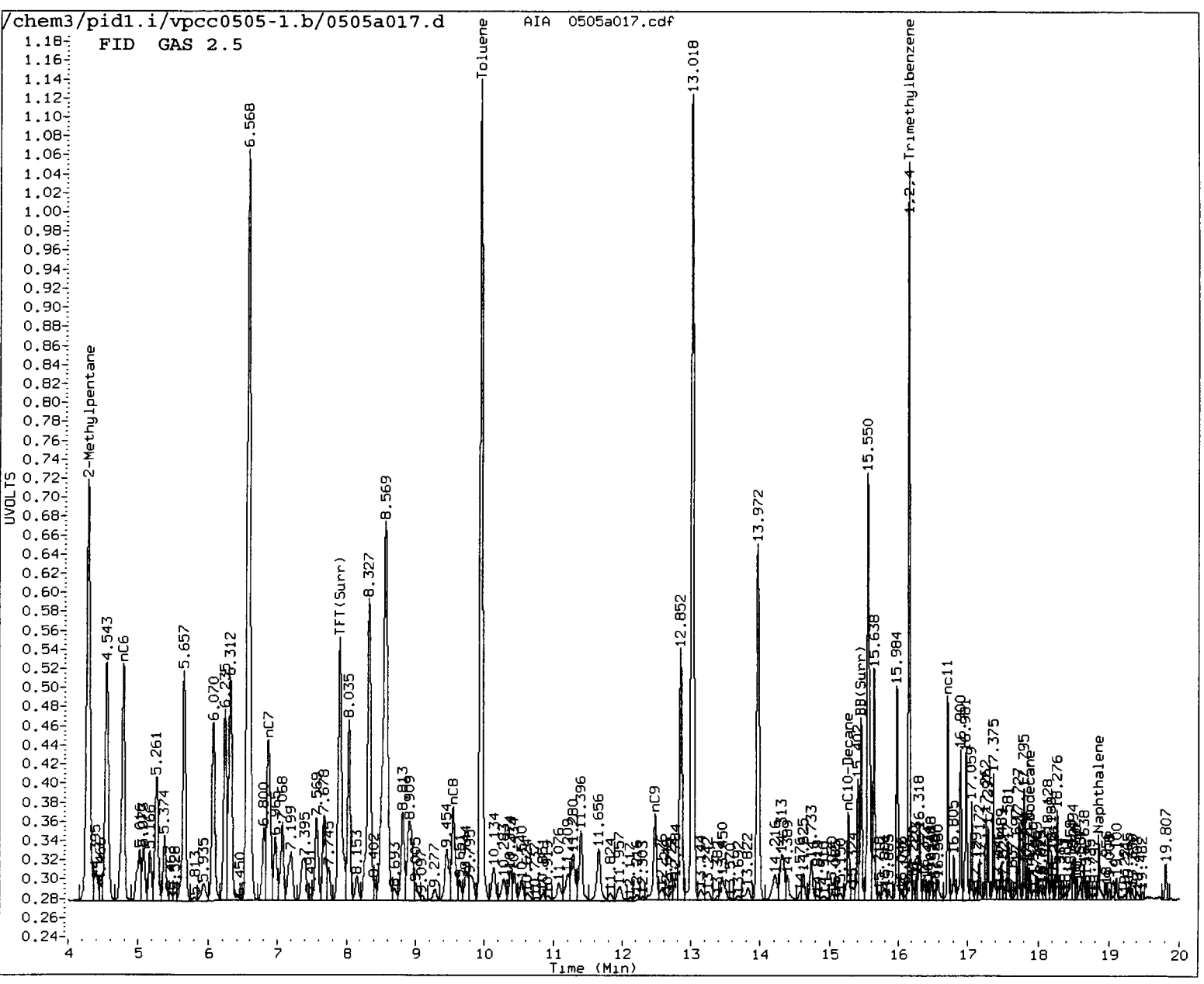
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Data File: /chem3/pid1.1/vpcc0505-1.b/0505a017.d/0505a017.cdf
Injection Date: 05-MAY-2011 17:59
Instrument: pid1.1
Client Sample ID:



MH
5/9/11



MANUAL INTEGRATION

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

Analyst: MH Date: 5/9/11

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a018.d ARI ID: GAS 5
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a018.d Client ID:
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m Injection Date: 05-MAY-2011 18:28
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.904	-0.002	3139	51298	120.2	TFT(Surr)
15.449	0.001	1983	18851	105.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.96)	319505	1598812	5.004
8015B 2MP-TMB (4.17 to 16.26)	652210	3190190	4.891 M
AK101 nC6-nC10 (4.67 to 15.16)	527526	2563780	4.860 M
NWTPHG Tol-Nap (9.85 to 18.98)	340084	1684838	4.954

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.904	0.000	6045	108.0	TFT(Surr)
15.449	0.001	12357	103.9	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.067	0.001	6006	16.14	Benzene
9.951	0.001	62220	182.98	Toluene
12.852	-0.004	15924	54.78	Ethylbenzene
13.020	-0.003	63217	196.03	M/P-Xylene
13.973	-0.002	22813	90.42	O-Xylene
4.543	0.005	1117	9.69	MTBE

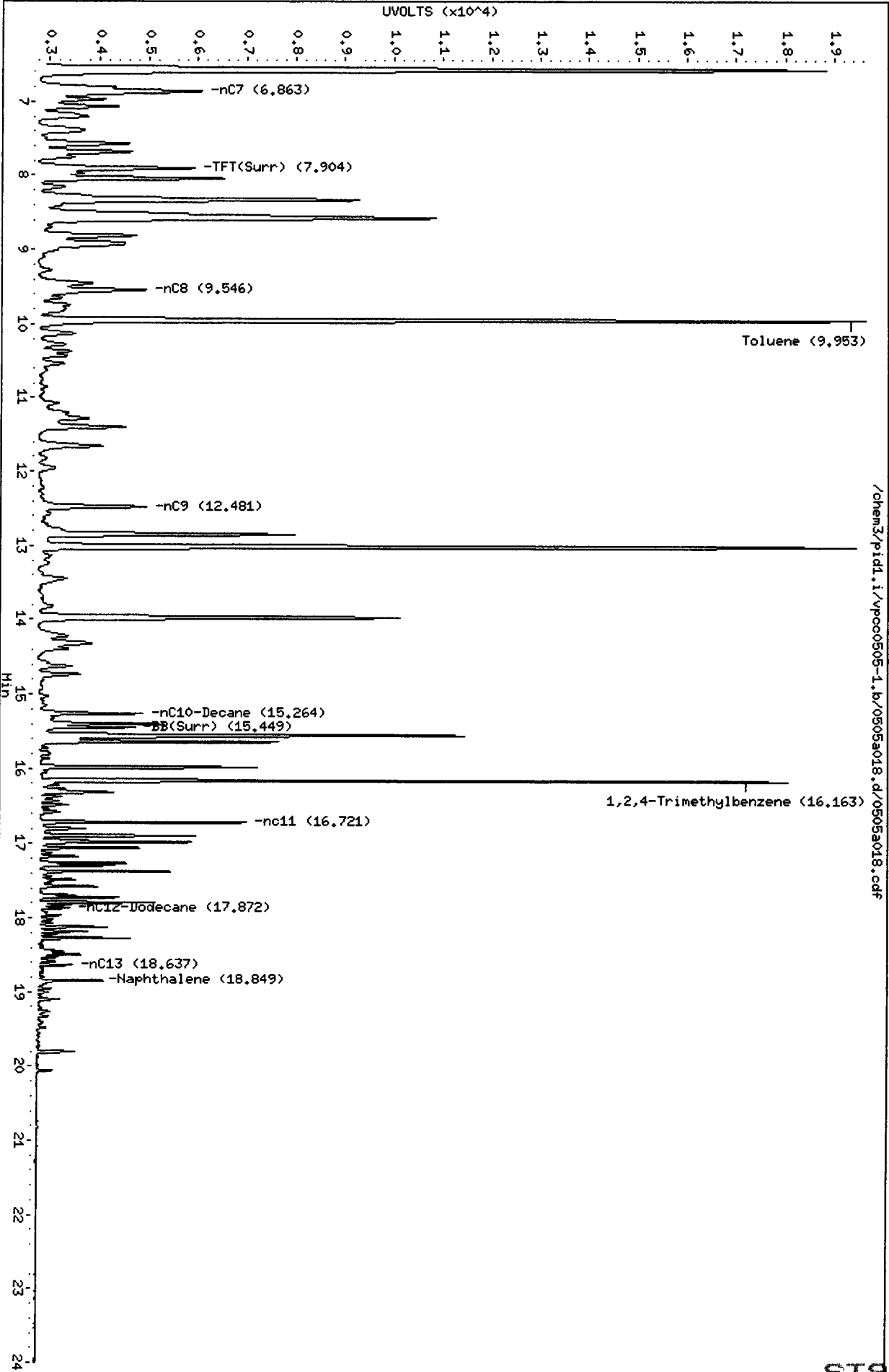
A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0505-1.b/0505a018.d
Date: 05-MAY-2011 18:28
Client ID:
Sample Info: GAS 5

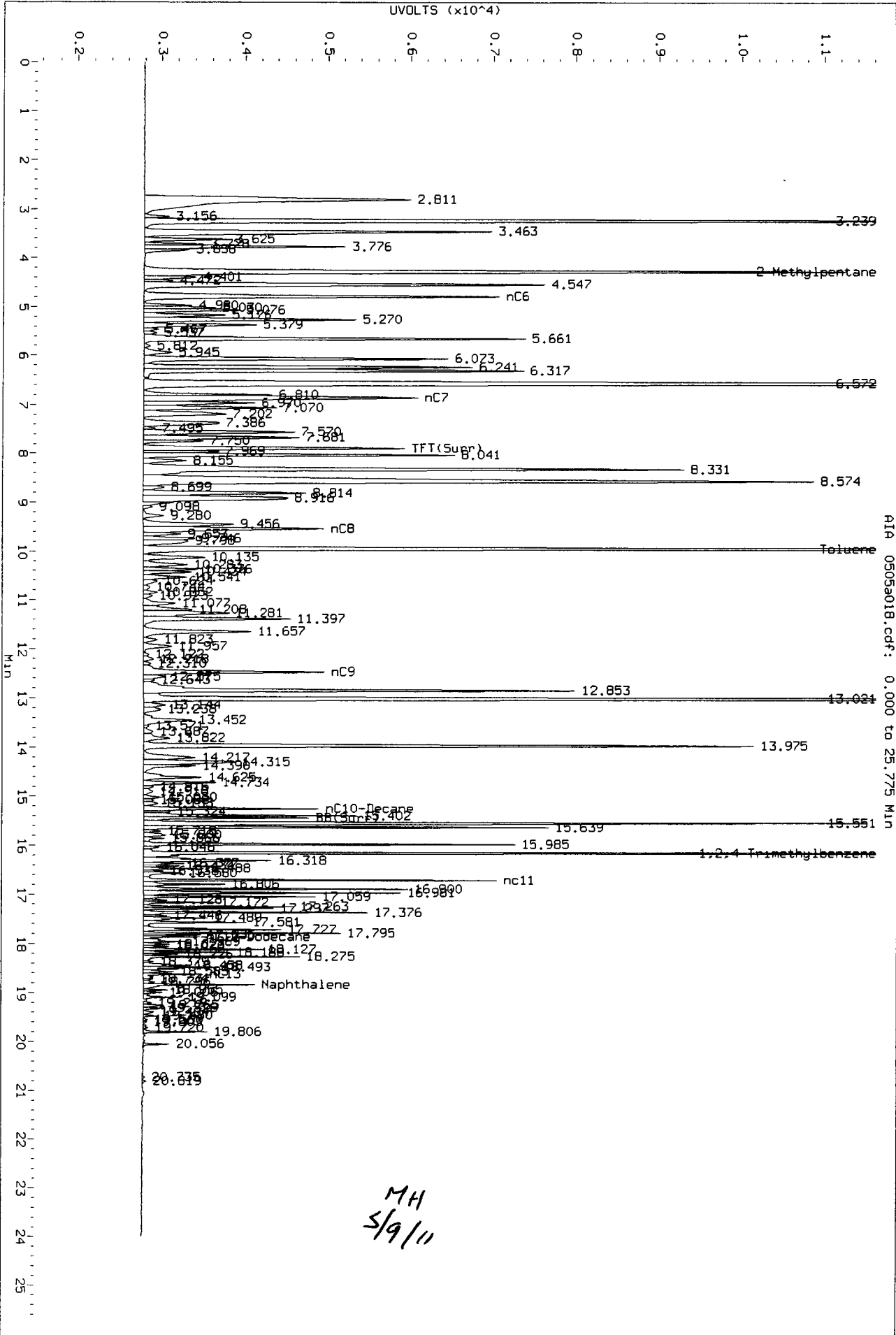
Column phase: RTX 502-2 FID

Instrument: pid1.i
Operator: HH
Column diameter: 0.18



/chem3/pid1.i/vpcc0505-1.b/0505a018.d/cdf

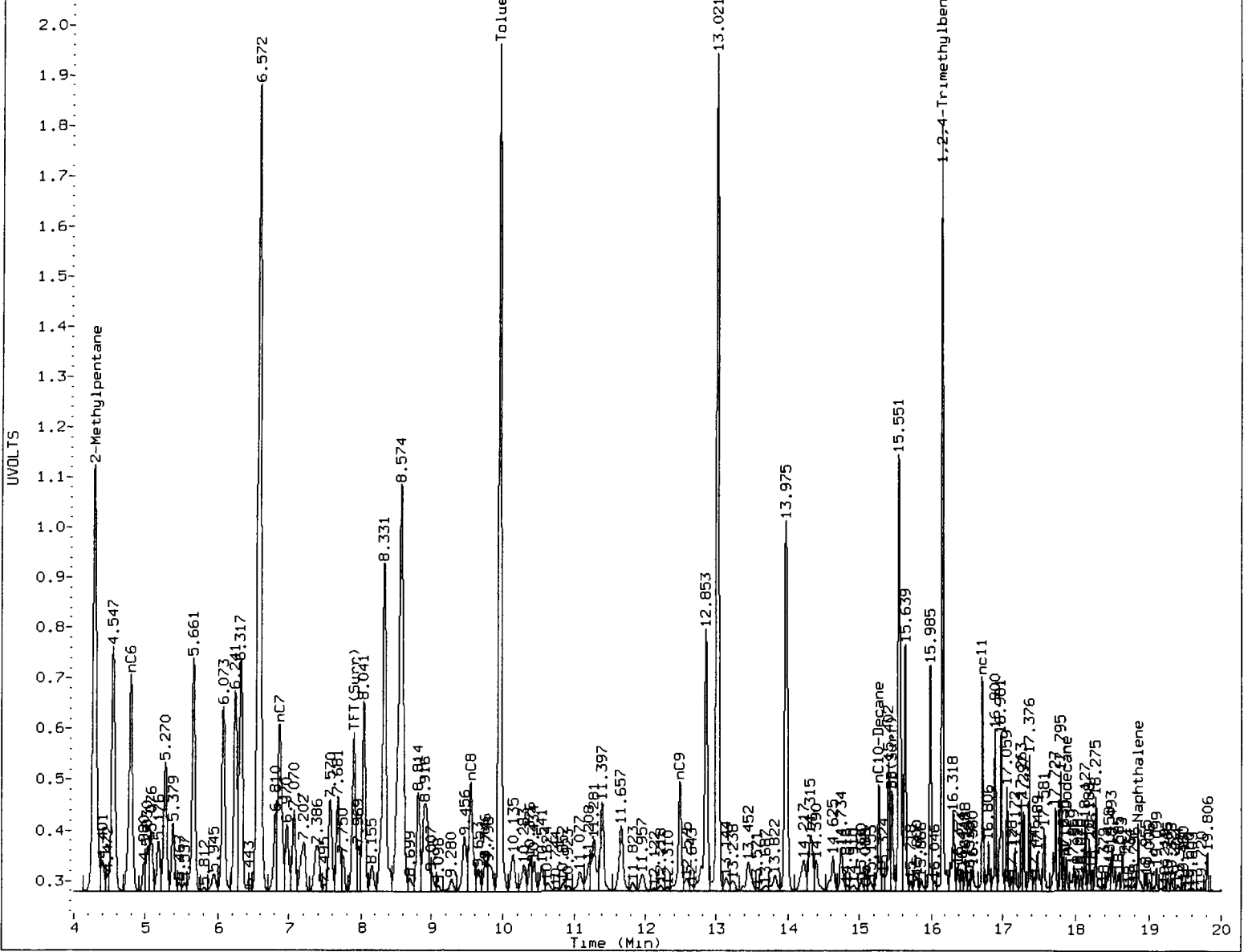
Data File: /chem3/pid1.1/vpcc0505-1.b/0505a018.d/0505a018.cdf
Injection Date: 05-MAY-2011 18:28
Instrument: pid1.1
Client Sample ID:



RI# 0505a018.cdf: 0.000 to 25.775 Min

MH
5/9/11

FID GAS 5



MANUAL INTEGRATION

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

Analyst: MH Date: 5/9/11

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a019.d ARI ID: GAS 20
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a019.d Client ID:
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m Injection Date: 05-MAY-2011 18:57
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	----	----	-----
7.897	-0.010	4779	68256	183.1	TFT(Surr)
15.450	0.002	1831	14140	97.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.96)	319505	6450142	20.188 M
8015B 2MP-TMB (4.17 to 16.26)	652210	13434654	20.599 M
AK101 nC6-nC10 (4.67 to 15.16)	527526	11032097	20.913 M
NWTPHG Tol-Nap (9.85 to 18.98)	340084	6800775	19.997 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
7.897	-0.007	10042	179.4	TFT(Surr)
15.449	0.001	14719	123.8	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	----	-----
7.070	0.004	24431	65.65	Benzene
9.963	0.013	242571	713.38	Toluene
12.860	0.004	64158	220.70	Ethylbenzene
13.040	0.018	239180	741.67	M/P-Xylene
13.984	0.010	91766	363.73	O-Xylene
4.545	0.006	4433	38.44	MTBE

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

Data File: /chem3/pid1.i/vpcc0505-1.b/0505a019.d

Date: 05-MAY-2011 18:57

Client ID:

Sample Info: GAS 20

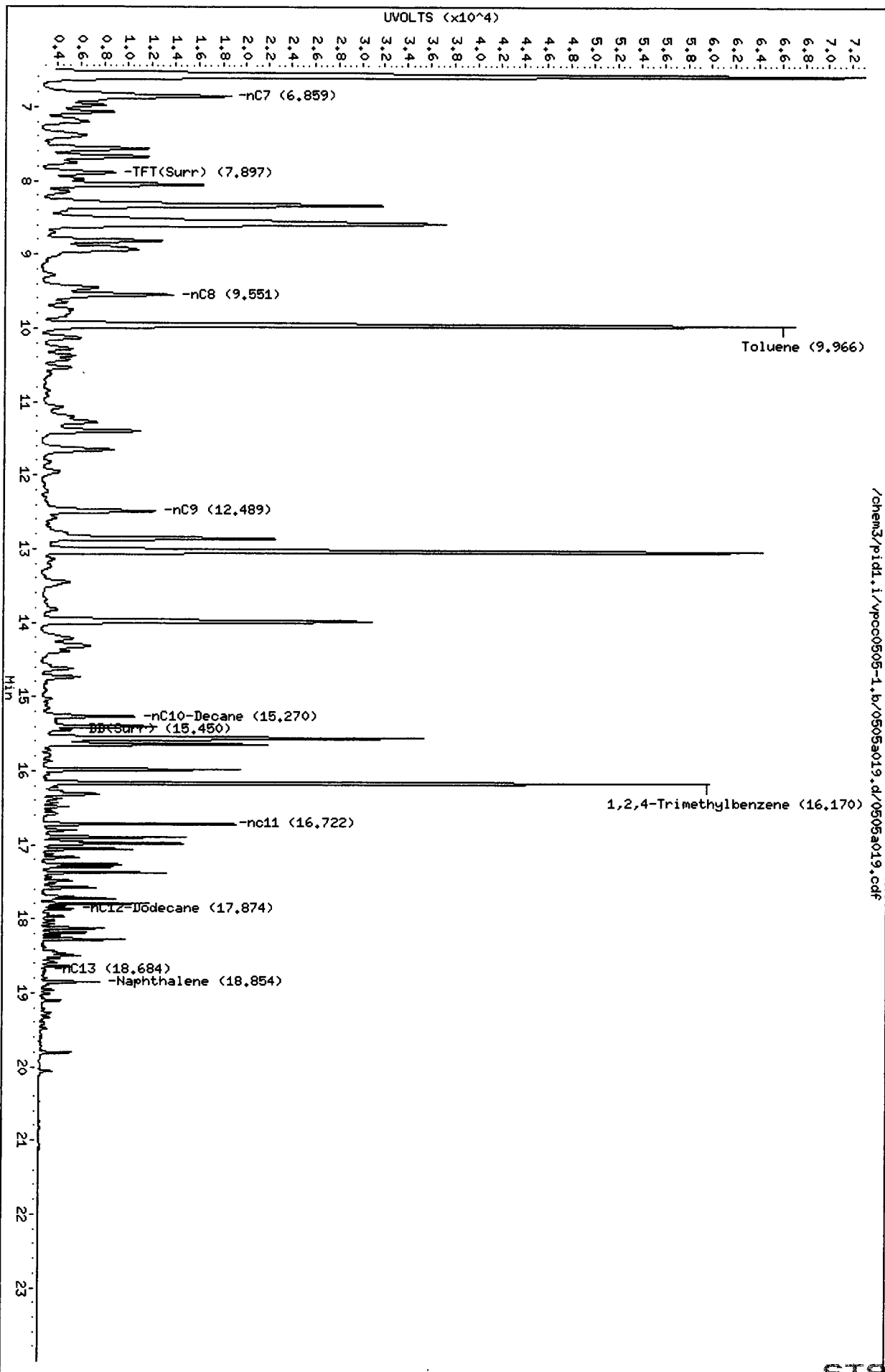
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

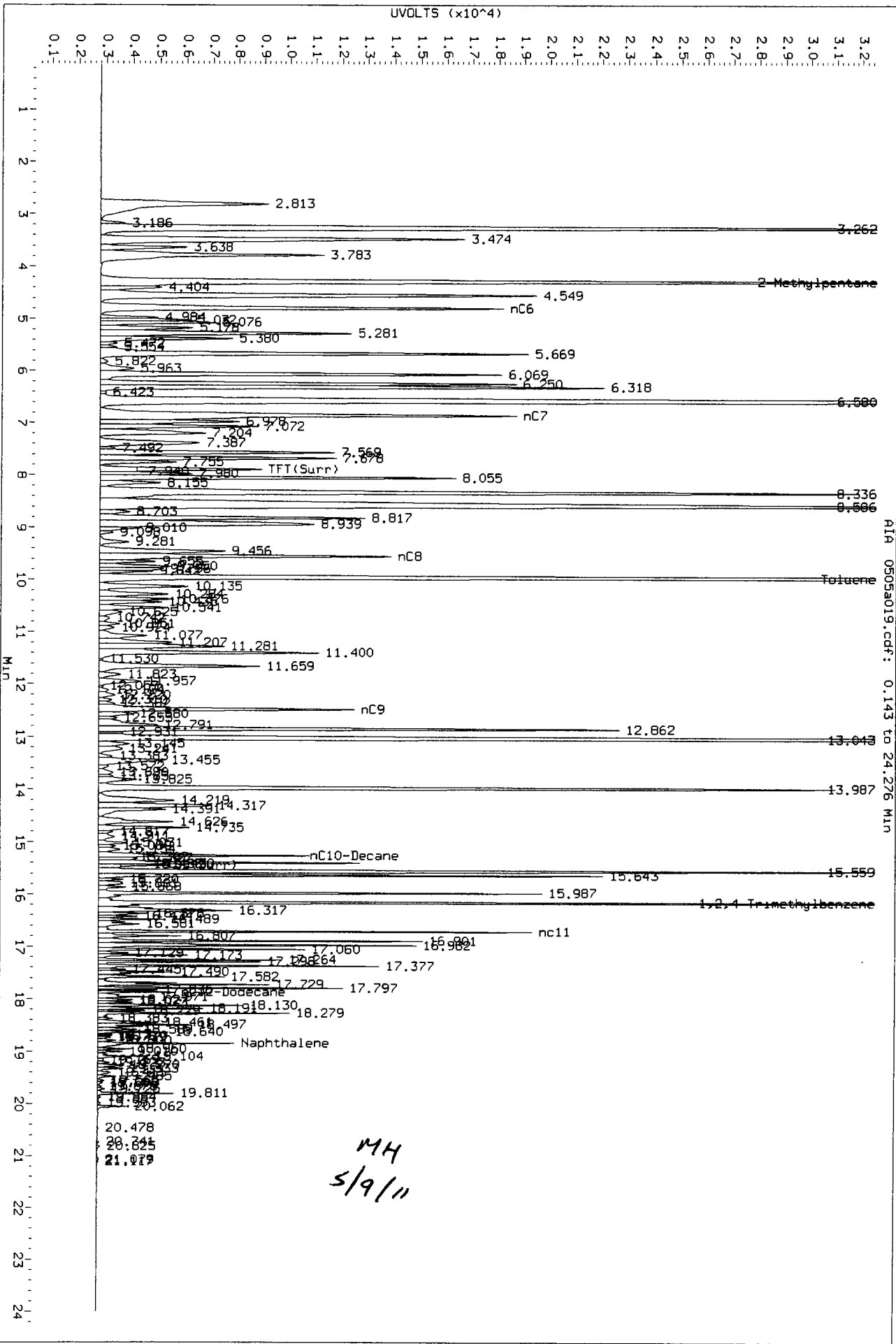
Column diameter: 0.18

Page 1

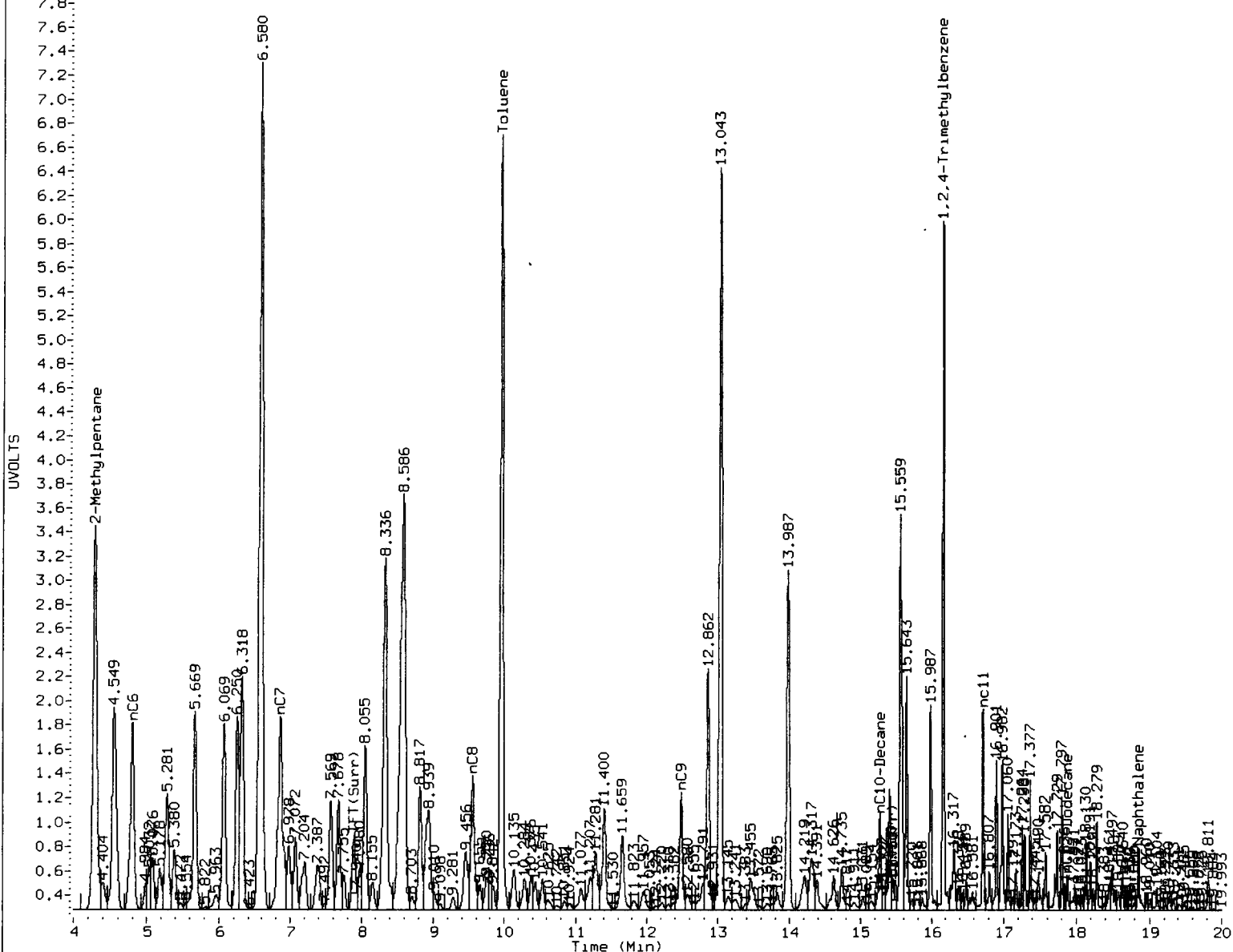


ST98: 01070

Data File: /chem3/pid1.1/vpcc0505-1.b/0505a019.d/0505a019.cdf
Injection Date: 05-MAY-2011 18:57
Instrument: pid1.1
Client Sample ID:



FID GAS 20



MANUAL INTEGRATION

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

Analyst: MH Date: 5/9/11

214
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0505-1.b/0505a021.d ARI ID: GAS ICV
Data file 2: /chem3/pid1.i/vpcc0505-2.b/0505a021.d Client ID:
Method: /chem3/pid1.i/vpcc0505-2.b/PIDB.m Injection Date: 05-MAY-2011 19:56
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.906	0.000	2398	33961	91.9	TFT(Surr)
15.449	0.001	1831	15736	97.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.96)	319505	93767	0.293 M
8015B 2MP-TMB (4.17 to 16.26)	652210	174494	0.268 M
AK101 nC6-nC10 (4.67 to 15.16)	527526	137910	0.261 M
NWTPHG Tol-Nap (9.85 to 18.98)	340084	103475	0.304 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.904	0.000	5077	90.7	TFT(Surr)
15.449	0.001	11458	96.4	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.055	-0.011	358	0.96	Benzene
9.948	-0.002	3166	9.31	Toluene
12.851	-0.005	794	2.73	Ethylbenzene
13.014	-0.008	3148	9.76	M/P-Xylene
13.971	-0.004	1138	4.51	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/pid1.i/vpcc0505-1.b/0505a021.d
Date : 05-MAY-2011 19:56

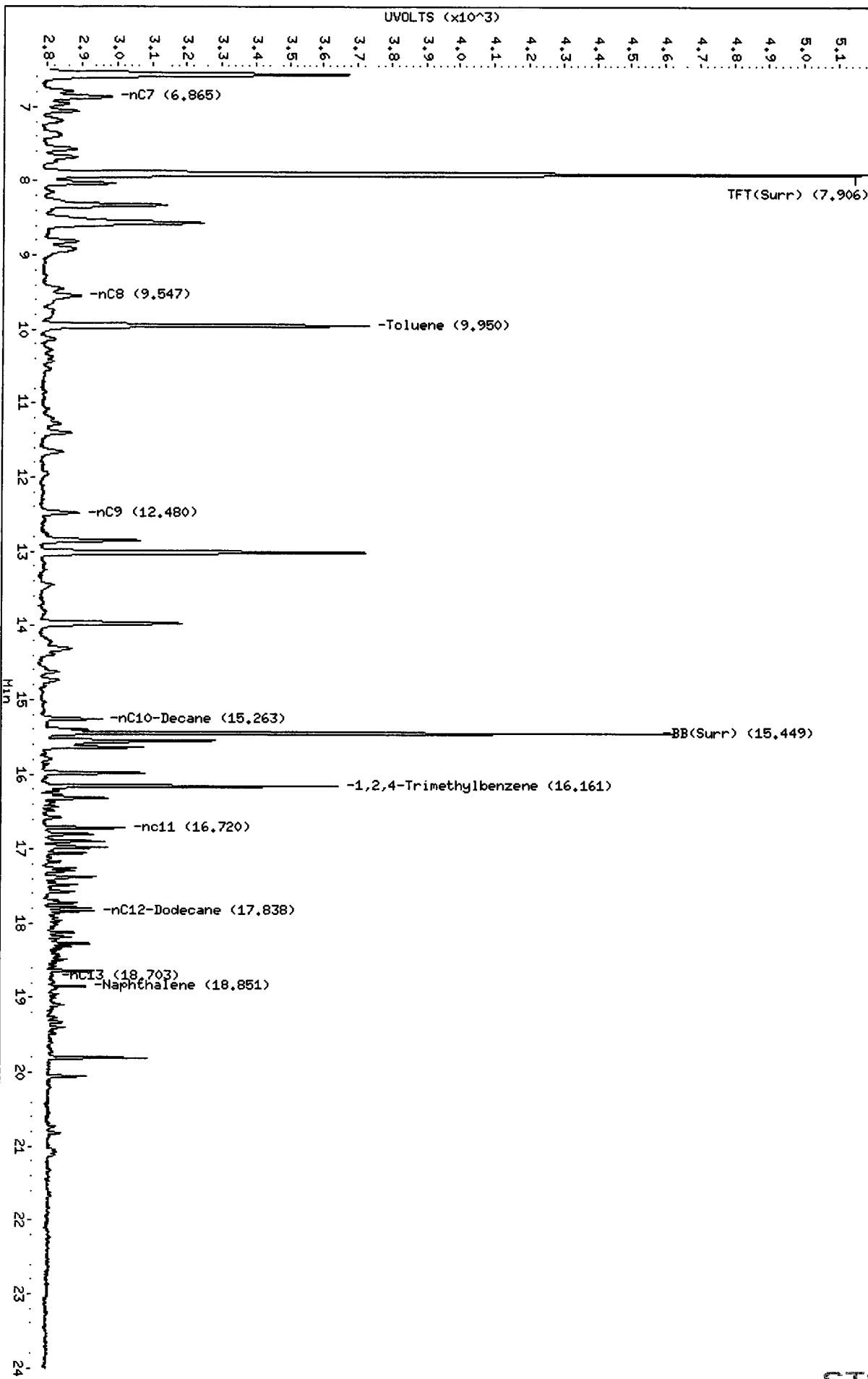
Client ID:
Sample Info: GAS ICV

Column phase: RTX 502-2 FID

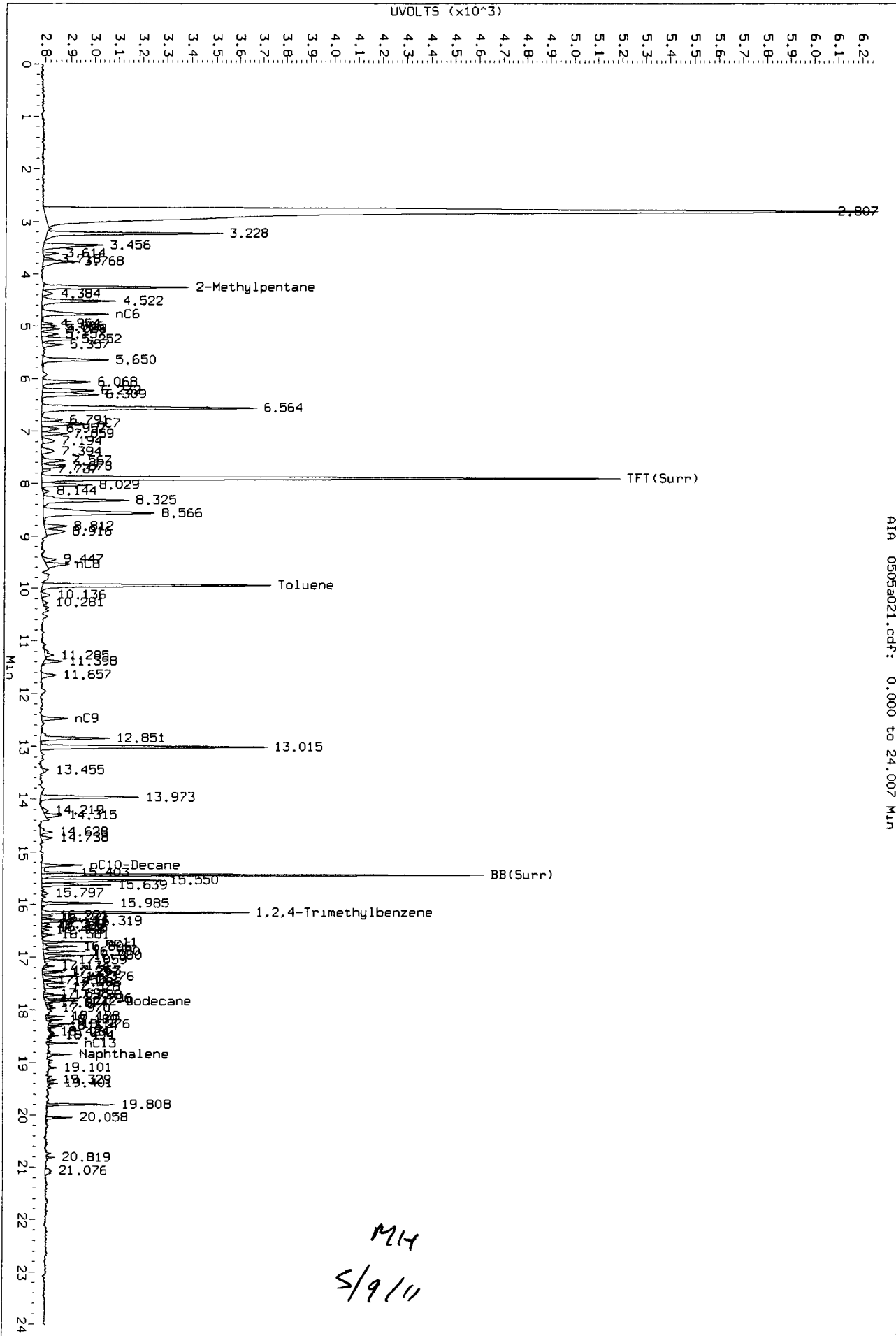
Instrument: pid1.i

Operator: HH
Column diameter: 0.18

/chem3/pid1.i/vpcc0505-1.b/0505a021.d/0505a021.cdf

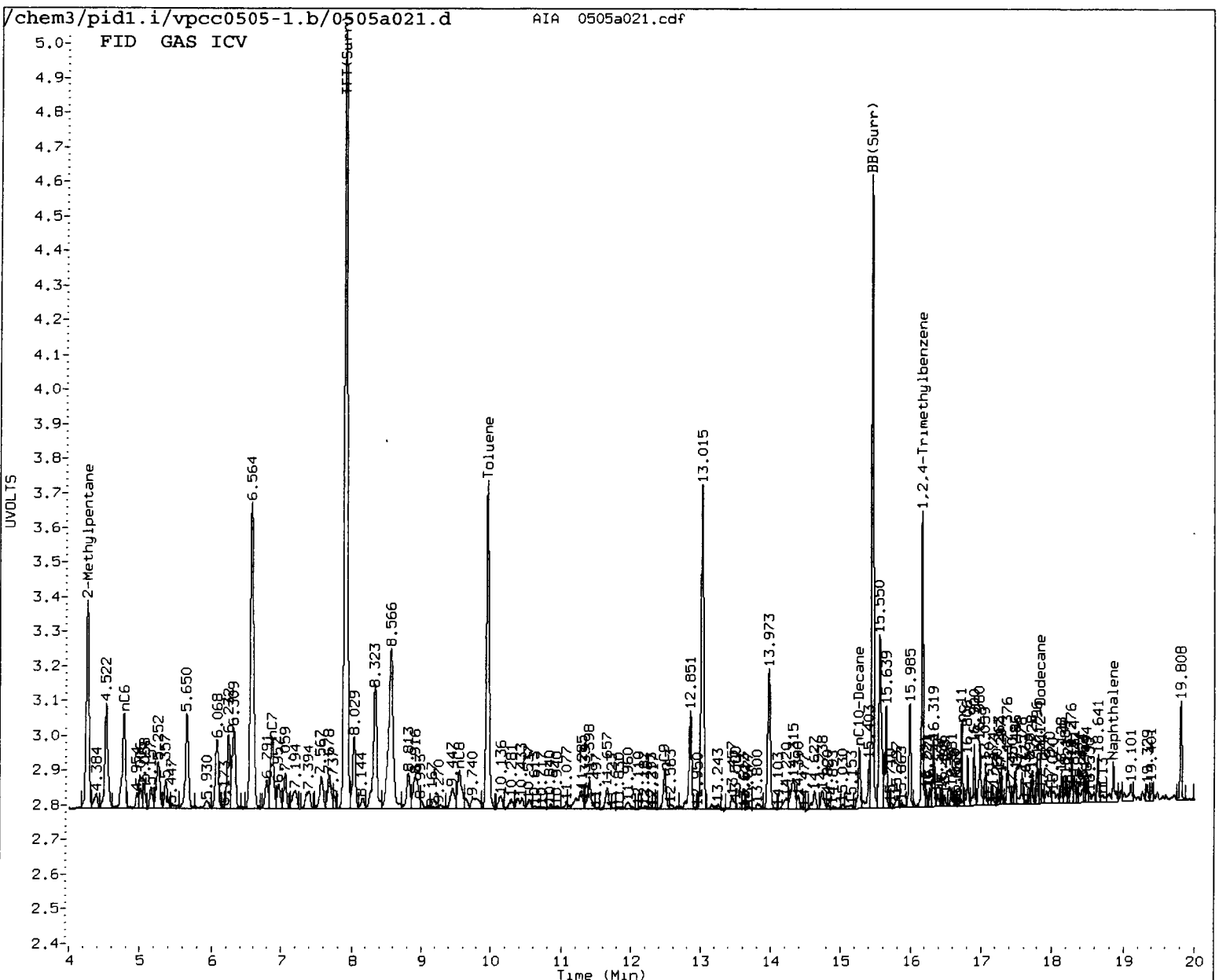


Data File: /chem3/p1d1.1/vpcc0505-1.b/0505a021.d/0505a021.cdf
Injection Date: 05-MAY-2011 19:56
Instrument: p1d1.1
Client Sample ID:



AIA 0505a021.cdf: 0.000 to 24.007 Min

M14
5/9/11



MANUAL INTEGRATION

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

Analyst: MH Date: 5/9/11

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid1.i/vpcc0505-1.b/FID.m
Batch File: /chem3/pid1.i/vpcc0505-1.b
Inst ID: pid1.i

ID: RT01 RT02 RT03 RT04 RT05 RT06 RT06
FILENAME: 0505a014 0505a015 0505a016 0505a017 0505a018 0505a019 0505a019
INJ.DATE: 05-MAY-2011 05-MAY-2011 05-MAY-2011 05-MAY-2011 05-MAY-2011 05-MAY-2011 05-MAY-2011
INJ.TIME: 16:31 17:00 17:30 17:59 18:28 18:57 18:57

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
18 NWTPEG	+++++	+++++	+++++	+++++	+++++	+++++	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	4.260	4.258	4.268	4.278	4.284	4.288	4.268	4.198-4.338	4.273	0.012
2 nC6	4.770	4.772	4.777	4.783	4.793	4.800	4.774	4.704-4.844	4.782	0.012
3 nC7	6.870	6.865	6.866	6.863	6.863	6.859	6.859	6.789-6.929	6.864	0.003
4 TFT(Surr)	7.907	7.907	7.906	7.905	7.904	7.897	7.906	7.836-7.976	7.904	0.004
5 nC8	9.548	9.545	9.546	9.545	9.546	9.551	9.543	9.473-9.613	9.547	0.002
6 Toluene	9.951	9.949	9.950	9.951	9.953	9.966	9.952	9.882-10.022	9.953	0.006
7 nC9	12.480	12.479	12.480	12.479	12.481	12.489	12.478	12.408-12.548	12.481	0.004
22 BFB(Surr)	+++++	+++++	+++++	+++++	+++++	+++++	16.027	15.957-16.097	+++++	+++++
8 nC10-Decane	15.267	15.261	15.263	15.263	15.264	15.270	15.260	15.190-15.330	15.265	0.003
9 BB(Surr)	15.450	15.449	15.449	15.449	15.449	15.450	15.448	15.378-15.518	15.449	0.000
10 1,2,4-Trimethylbenzene	16.162	16.161	16.161	16.161	16.163	16.170	16.159	16.089-16.229	16.163	0.004
11 nC11	16.757	16.720	16.721	16.720	16.721	16.722	16.758	16.688-16.828	16.727	0.015
12 nC12-Dodecane	17.870	17.872	17.874	17.872	17.872	17.874	17.856	17.786-17.926	17.872	0.001

Reviewer 1 MH Date: 5/9/11
Reviewer 2 [Signature] Date: 5/11/11

Analytical Resources, Inc.
RETENTION TIME SUMMARY REPORT

Method File: /chem3/pid1.i/vpcc0505-2.b/PIDB.m
Batch File: /chem3/pid1.i/vpcc0505-2.b
Inst ID: pid1.i

ID: RT01 RT02 RT03 RT04 RT05 RT06 RT05 RT06
FILENAME: 0505a014 0505a015 0505a016 0505a017 0505a018 0505a019
INJ.DATE: 05-MAY-2011 05-MAY-2011 05-MAY-2011 05-MAY-2011 05-MAY-2011 05-MAY-2011
INJ.TIME: 16:31 17:00 17:30 17:59 18:28 18:57

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 MTBE	+++++	+++++	4.528	4.539	4.543	4.545	4.539	4.489-4.589	4.539	0.007
2 Benzene	7.056	7.056	7.063	7.065	7.067	7.070	7.066	7.016-7.116	7.063	0.006
3 TFR (Surr)	7.905	7.905	7.904	7.903	7.904	7.897	7.904	7.854-7.954	7.903	0.003
4 Toluene	9.949	9.948	9.948	9.948	9.951	9.963	9.950	9.900-10.000	9.951	0.006
15 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	13.068	13.018-13.118	+++++	+++++
5 Ethylbenzene	12.851	12.850	12.850	12.850	12.852	12.860	12.855	12.805-12.905	12.852	0.004
6 M/P-Xylene	13.014	13.014	13.014	13.016	13.020	13.040	13.022	12.972-13.072	13.020	0.010
7 O-Xylene	13.971	13.971	13.970	13.970	13.973	13.984	13.974	13.944-14.004	13.973	0.006
19 BFB (Surr)	+++++	+++++	+++++	+++++	+++++	+++++	16.006	15.976-16.036	+++++	+++++
8 BB (Surr)	15.449	15.449	15.449	15.449	15.449	15.449	15.448	15.398-15.498	15.449	0.000
13 1,3,5 Trimethyl Benzen	+++++	+++++	+++++	+++++	+++++	+++++	16.433	16.403-16.463	+++++	+++++
14 1,2,4 Trimethyl Benzen	+++++	+++++	+++++	+++++	+++++	+++++	16.905	16.875-16.935	+++++	+++++
16 1,3 Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	16.863	16.833-16.893	+++++	+++++
17 1,4 Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	16.979	16.949-17.009	+++++	+++++
18 1,2 Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	17.371	17.341-17.401	+++++	+++++

Reviewer 1 MA Date: 5/9/11
Reviewer 2 _____ Date: _____

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

ARI Job ID: ST98, SU21



VOA Analyst Notes / Corrective Action Log

ARI Project ID: SU21 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 / 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: 4/16/11 Analysis Start Date: 5/4/11

pH ≤ 2.0	<u>YES</u> / NO / NA	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):

Additional Details on Reverse: Yes / No

Analyst: [Signature] Date: 5/9/11

Reviewer: [Signature] Date: 5/9/11

Analytical Resources Inc.: Organics Instrument Log

PID-1 Serial No.: 2750A-17141

Date: 5/4/11 Analysis: NWTPHG/BETX Analyst: MH

GC Program: BETX Column No: 827726 Column Type: RTX502-Z

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

Calibration File: _____ Curve Date: 4/16/11

IS/SS	Ical/CCal	LCS/ICV
<u>VW683-2</u>	<u>VW666-1</u>	<u>VW687-3</u>
	<u>VW683-3</u>	
	<u>VW687-3</u>	

Time	Filename	LabID	ClientID	Vial#	pH	DP						
1	0526	0504a001.d	RINSE			1	23	1626	0504a023.d	SU53B	MW15042811	1
2	0555	0504a002.d	RT+BCAL 1			1	24	1655	0504a024.d	RINSE		1
3	0625	0504a003.d	GCAL 1			1	25	1724	0504a025.d	BCAL 3	<i>Benzene low by 1.17%</i>	
4	0654	0504a004.d	LCS0504			1	26	1754	0504a026.d	GCAL 3		1
5	0723	0504a005.d	LCSD0504			1	27	1823	0504a027.d	SU53C	MW4042811	1
6	0752	0504a006.d	MB0504			1	28	1852	0504a028.d	SU53D	MW17042811	1
7	0840	0504a007.d	SU21A	MW07-042711		1	29	1921	0504a029.d	SU5E		1
8	0909	0504a008.d	SU21B	MW11-042711		1	30	1950	0504a030.d	SU53F	MW16042811	1
9	0939	0504a009.d	SU21C	MW10-042711		1	31	2019	0504a031.d	SU73A	MW-01-042911	1
10	1008	0504a010.d	SU21D	MW09-042711		1	32	2048	0504a032.d	SU73B	MW-01-042911-D	1
11	1037	0504a011.d	SU21E	MW08-042711		1	33	2118	0504a033.d	SU74A	B312-042911	1
12	1106	0504a012.d	SU21F	MW12-042711		1	34	2147	0504a034.d	SU74B	B310-042911	1
13	1135	0504a013.d	RINSE			1	35	2216	0504a035.d	RINSE		1
14	1205	0504a014.d	BCAL 2			1	36	2245	0504a036.d	BCAL 4		1
15	1233	0504a015.d	GCAL 2			1	37	2314	0504a037.d	GCAL 4		1
16	1302	0504a016.d	ST98A	MW02-042611		1	38	2343	0504a038.d	LCS0504S2		1
17	1332	0504a017.d	ST98B	MW03-042611		1	39	0012	0504a039.d	LCSD0504S2		1
18	1401	0504a018.d	ST98C	MW13-042611		1	40	0041	0504a040.d	MB0504S2		1
19	1430	0504a019.d	ST98D	MW06-042611		1	41	0110	0504a041.d	SU74C	B311-042911	1
20	1459	0504a020.d	ST98DMS	MW06-042611	MS	1	42	0139	0504a042.d	RINSE		1
21	1528	0504a021.d	ST98DMSD	MW06-042611	MSD	1	43	0208	0504a043.d	BCAL 5		1
22	1557	0504a022.d	SU53A	MW5042811		1	44	0237	0504a044.d	GCAL 5		1

MH 5/9/11

Maintenance / Comments *re-run from Cal 2 on. MH 5/9/11 new curve 5/5/11*

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

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0504-1.b/0504a002.d ARI ID: RT+BCAL 1
Data file 2: /chem3/pid1.i/vpcc0504-2.b/0504a002.d Client ID:
Method: /chem3/pid1.i/vpcc0504-2.b/PIDB.m Injection Date: 04-MAY-2011 05:55
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	----	----	-----
7.901	0.000	2589	35138	91.5	TFT(Surr)
15.445	0.000	1903	15692	91.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.84 to 17.93)	374773	456175	1.217
8015B 2MP-TMB (4.17 to 16.26)	747017	519064	0.695
AK101 nC6-nC10 (4.67 to 15.16)	604063	368012	0.609
NWTPHG Tol-Nap (9.84 to 18.94)	403422	508706	1.261

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
7.899	0.000	5712	87.7	TFT(Surr)
15.445	0.000	12175	90.3	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.060	0.000	9520	21.72	Benzene
9.942	0.000	8890	22.74	Toluene
12.845	0.000	8014	23.46	Ethylbenzene
13.007	0.000	17191	46.81	M/P-Xylene
13.964	0.000	6882	24.03	O-Xylene
4.534	0.000	3388	19.96	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0504-1.b/0504a002.d

Date: 04-MAY-2011 05:55

Client ID:

Sample Info: RT+BCAL 1

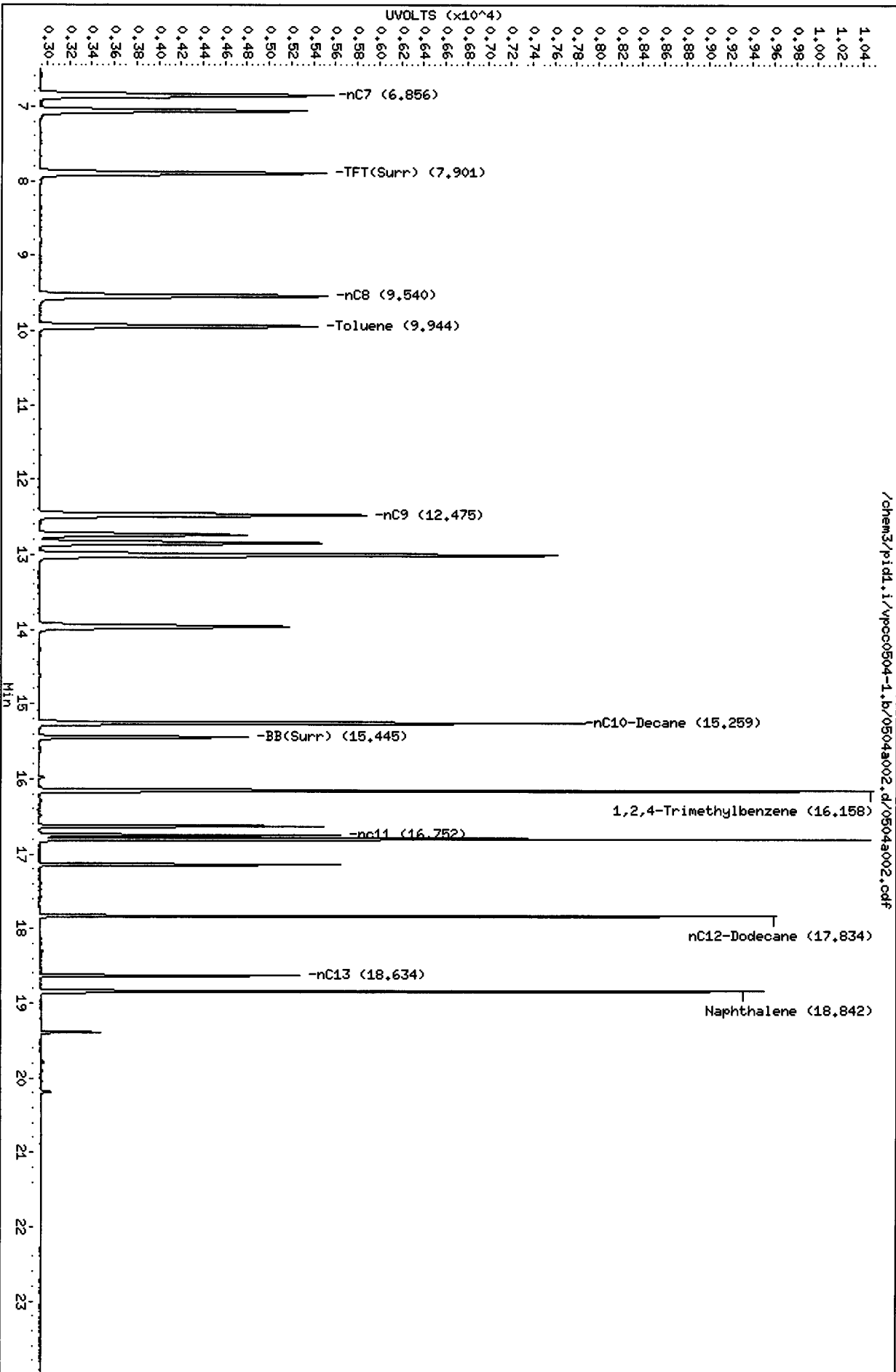
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

Page 1



/chem3/pid1.i/vpcc0504-1.b/0504a002.d/0504a002.cdf

Data File: /chem3/pid1.i/vpcc0504-2.b/0504a002.d

Date: 04-MAY-2011 05:55

Client ID:

Sample Info: RT+BCAL 1

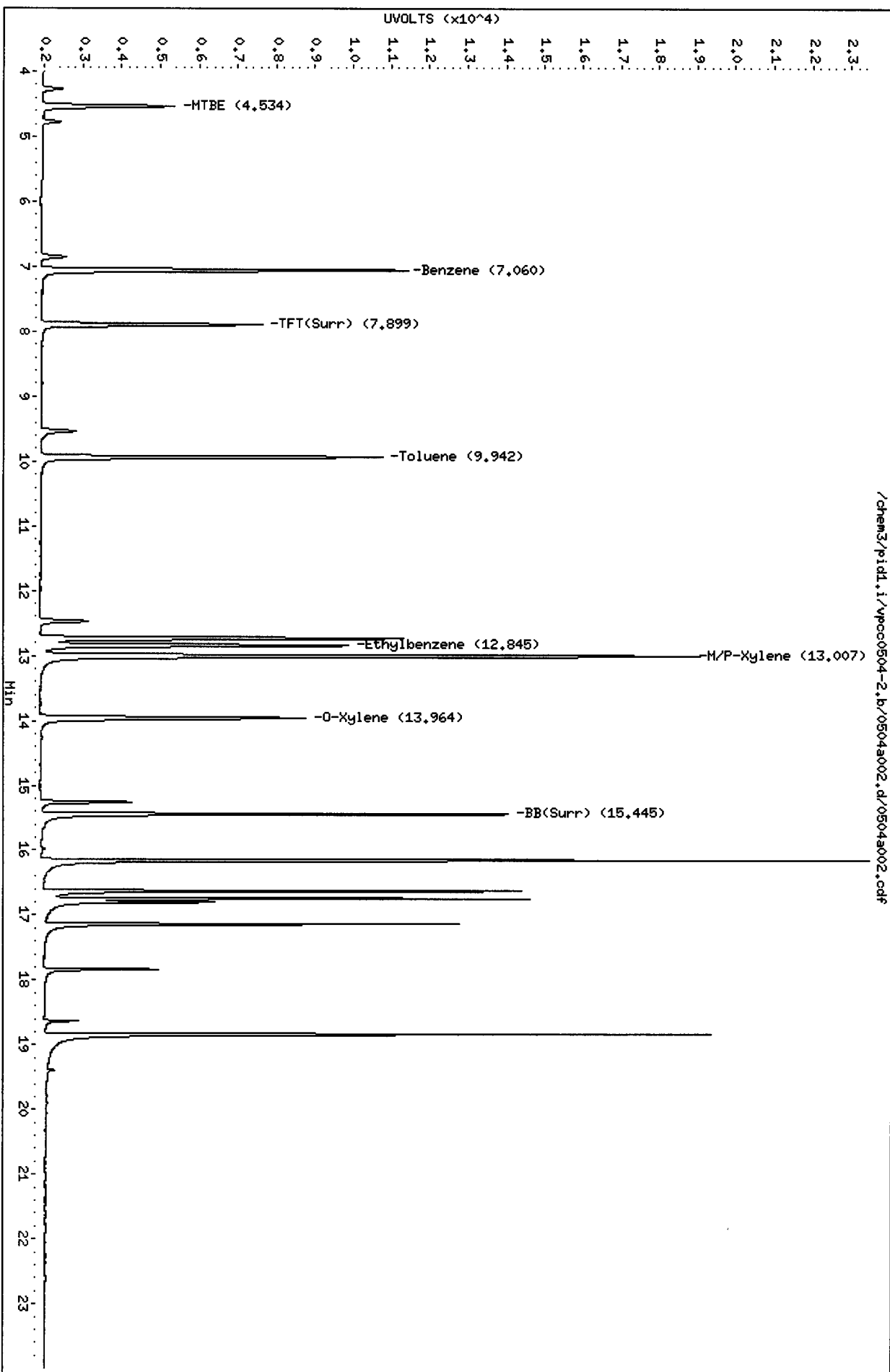
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

Page 1



/chem3/pid1.i/vpcc0504-2.b/0504a002.d/0504a002.cdf

ST98 : 01084

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0504-1.b/0504a003.d ARI ID: GCAL 1
Data file 2: /chem3/pid1.i/vpcc0504-2.b/0504a003.d Client ID:
Method: /chem3/pid1.i/vpcc0504-2.b/PIDB.m Injection Date: 04-MAY-2011 06:25
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	----	----	-----
7.899	-0.002	2868	50080	101.4	TFT (Surr)
15.445	0.000	1937	17761	92.9	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.84 to 17.93)	374773	863714	2.305 M
8015B 2MP-TMB (4.17 to 16.26)	747017	1746060	2.337 M
AK101 nC6-nC10 (4.67 to 15.16)	604063	1397515	2.314 M
NWTPHG Tol-Nap (9.84 to 18.94)	403422	918138	2.276 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	----	-----
7.898	-0.001	5986	91.9	TFT (Surr)
15.445	0.000	12566	93.2	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	----	-----
7.061	0.001	3256	7.43	Benzene
9.943	0.001	33082	84.61	Toluene
12.845	0.000	8466	24.79	Ethylbenzene
13.010	0.004	33690	91.74	M/P-Xylene
13.964	0.000	12037	42.03	O-Xylene
4.536	0.002	710	4.18	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0504-1.b/0504a003.d
Date: 04-May-2011 06:25

Client ID:

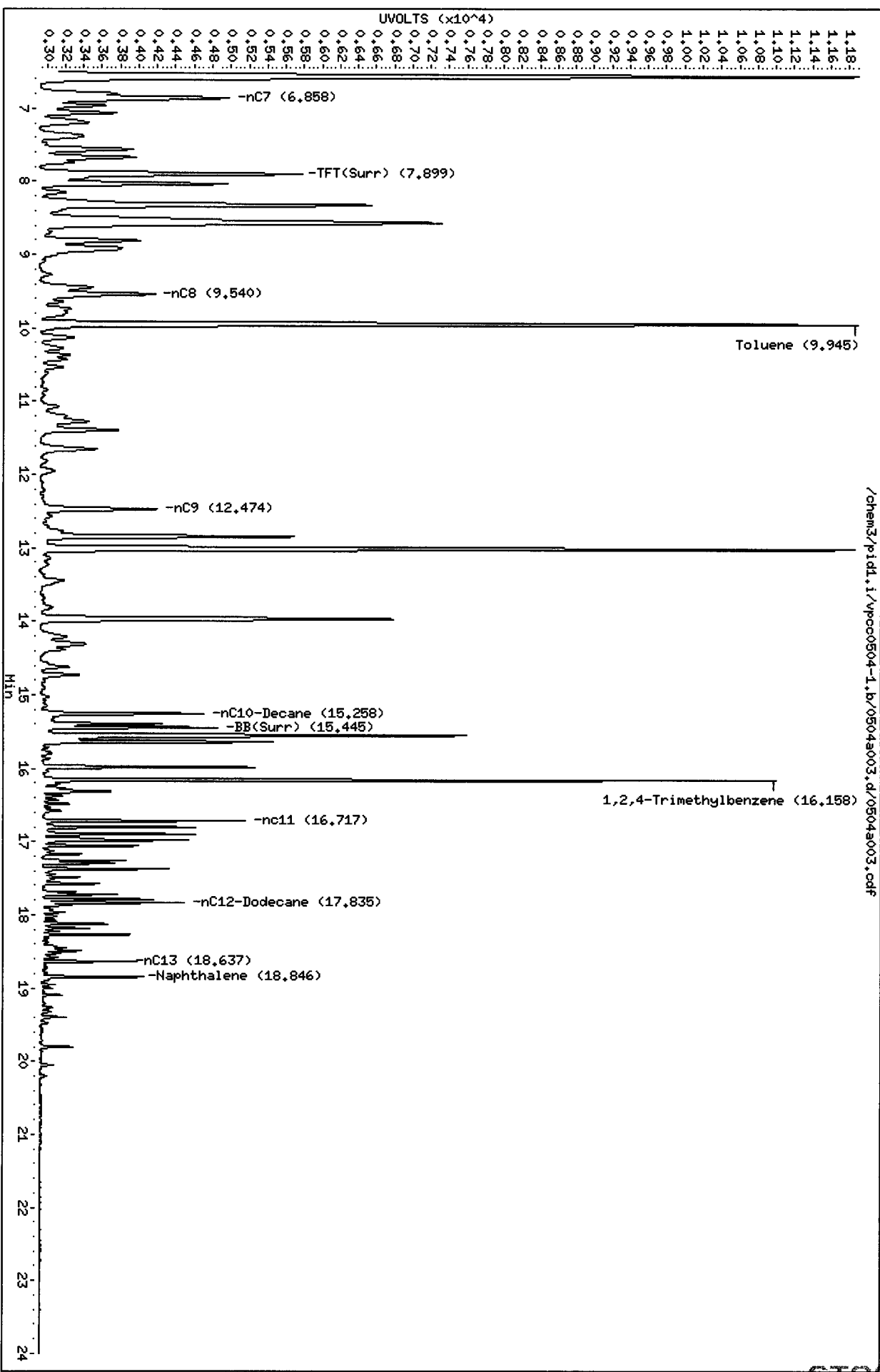
Sample Info: GCAL 1

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0504-2.br/0504a003.d

Date: 04-MAY-2011 06:25

Client ID:

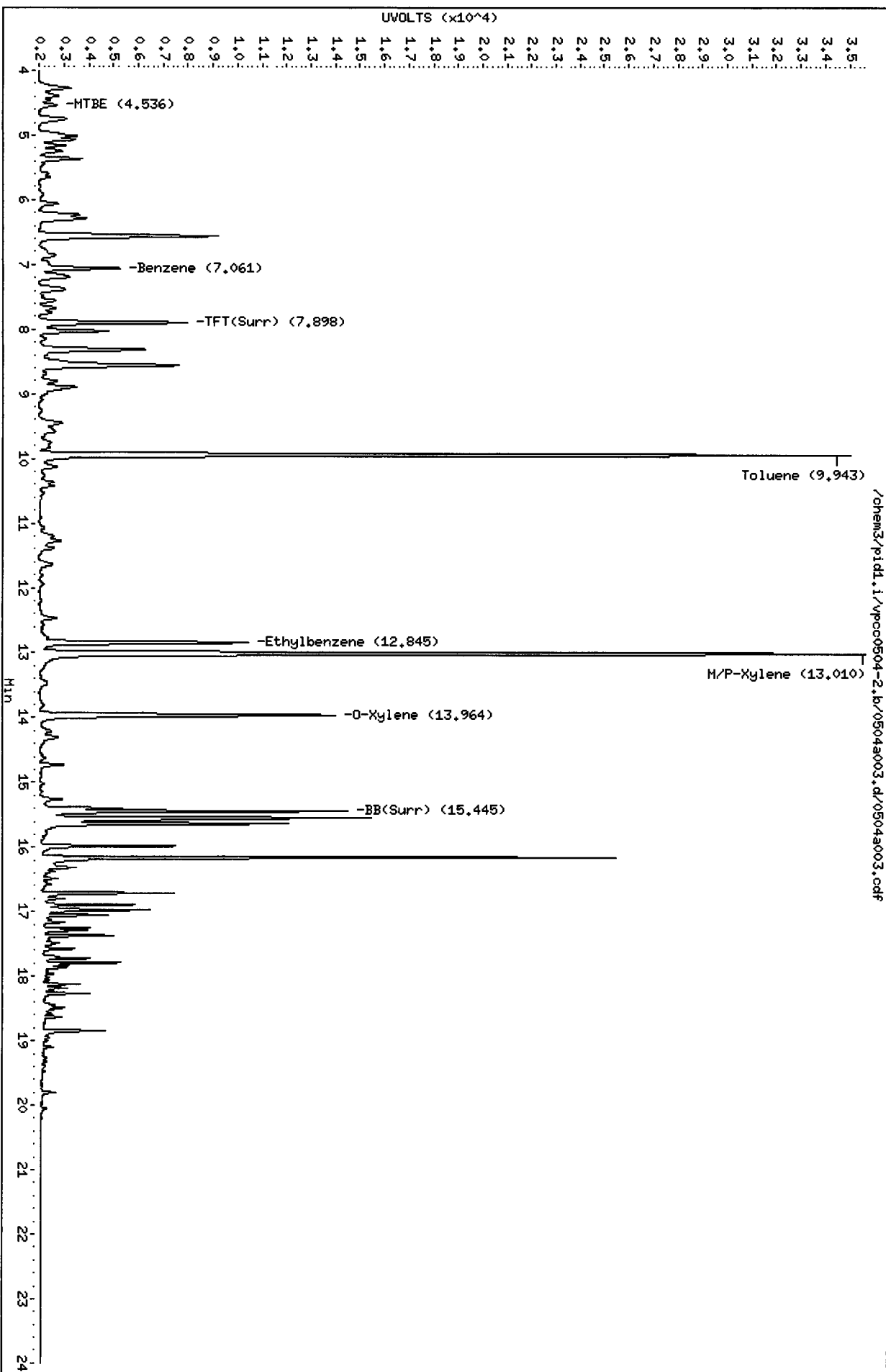
Sample Info: GCAL 1

Column phase: RTX 502-2 PID

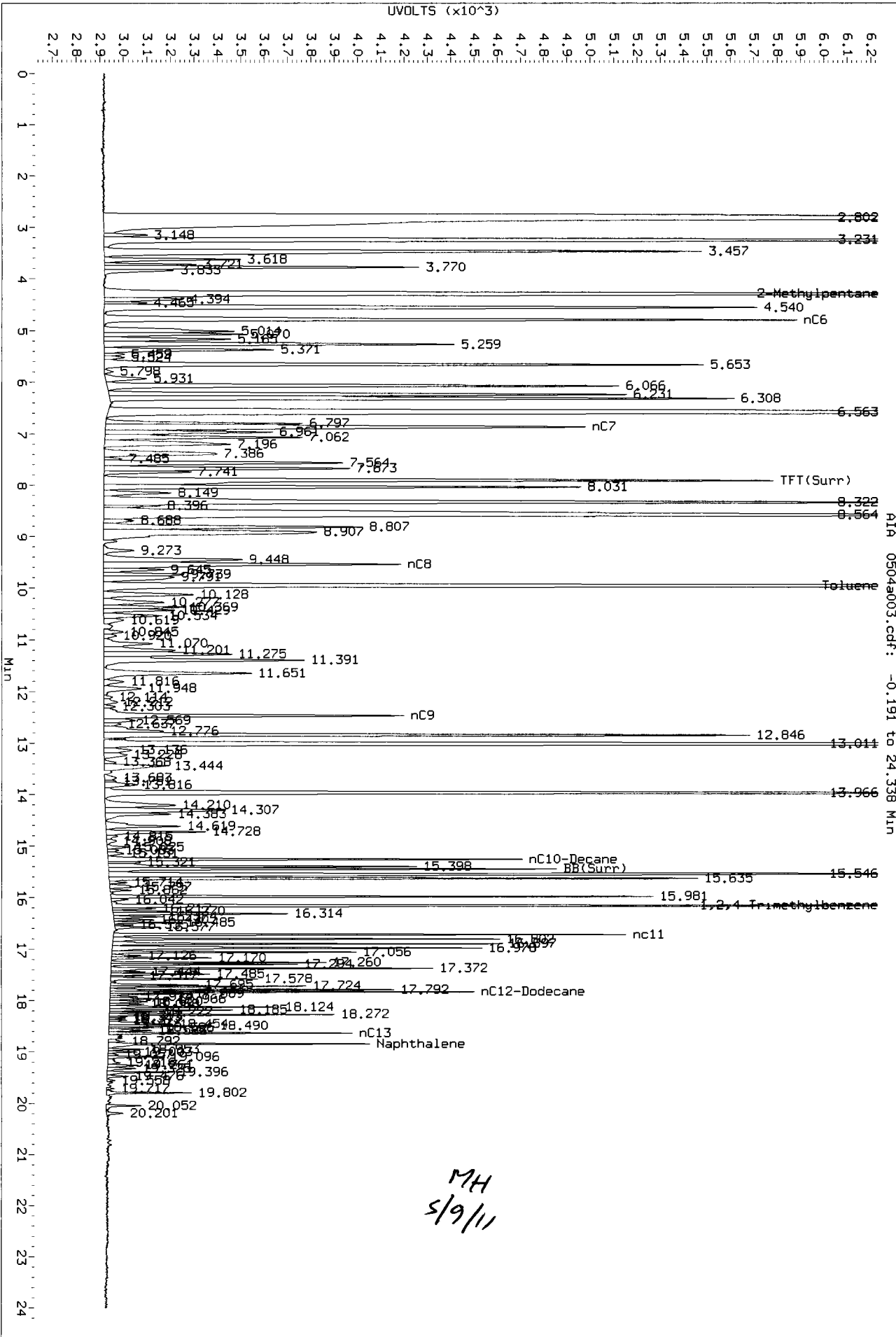
Instrument: pid1.i

Operator: MH

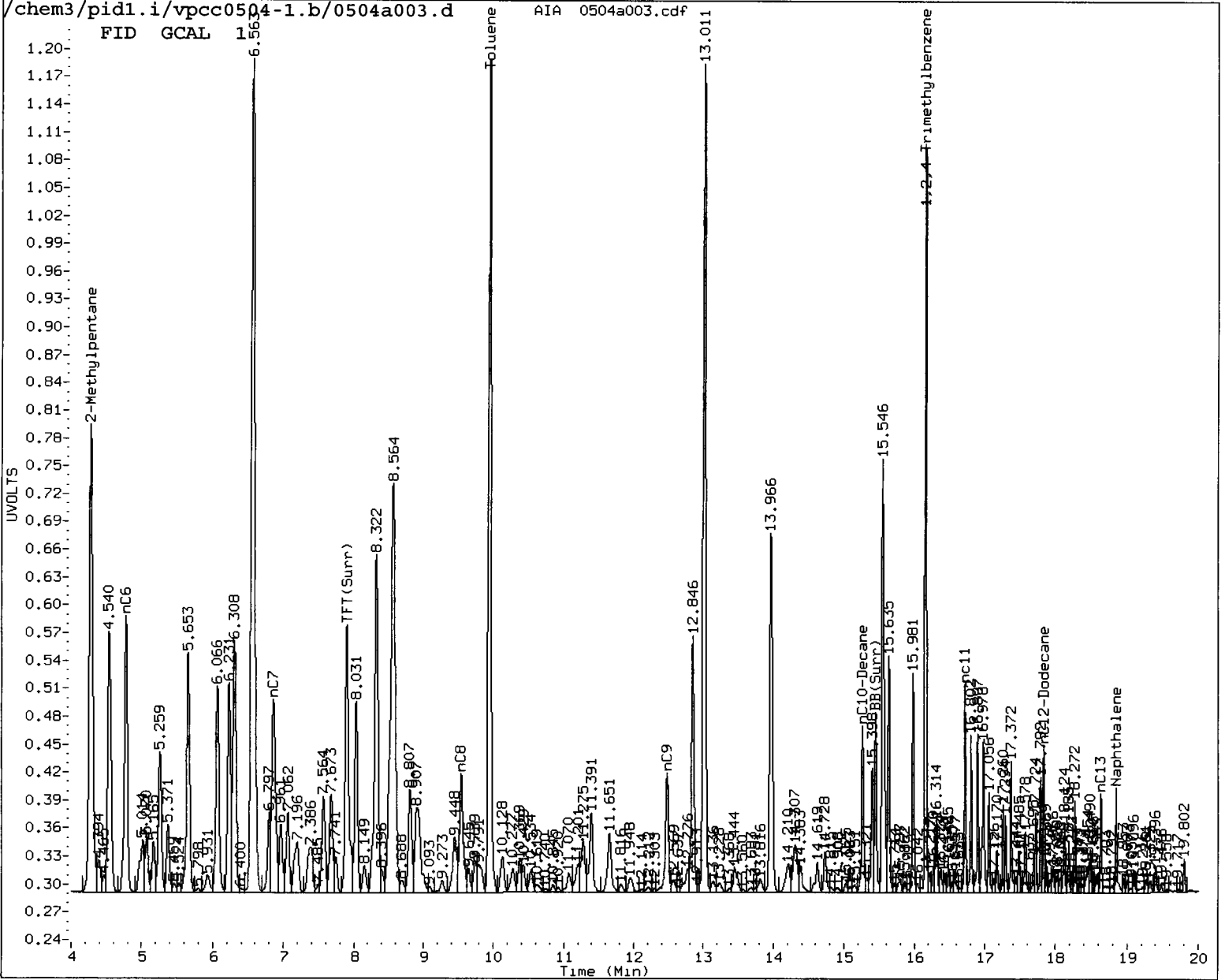
Column diameter: 0.18



Data File: /chem3/pid1.1/vpcc0504-1.b/0504a003.d/0504a003.cdf
 Injection Date: 04-MAY-2011 06:25
 Instrument: pid1.1
 Client Sample ID:



FID GCAL 15.6



MANUAL INTEGRATION

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

Analyst: MH Date: 5/9/11

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0504-1.b/0504a004.d ARI ID: LCS0504
Data file 2: /chem3/pid1.i/vpcc0504-2.b/0504a004.d Client ID:
Method: /chem3/pid1.i/vpcc0504-2.b/PIDB.m Injection Date: 04-MAY-2011 06:54
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.902	0.001	2694	41508	95.2	TFT (Surr)
15.445	0.001	1903	16952	91.2	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.84 to 17.93)	374773	372886	0.995 M
8015B 2MP-TMB (4.17 to 16.26)	747017	742102	0.993 M
AK101 nC6-nC10 (4.67 to 15.16)	604063	595373	0.986 M
NWTPHG Tol-Nap (9.84 to 18.94)	403422	397501	0.985 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.900	0.001	5804	89.1	TFT (Surr)
15.445	0.001	12308	91.3	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.059	0.000	1364	3.11	Benzene
9.943	0.001	13549	34.65	Toluene
12.845	0.000	3431	10.04	Ethylbenzene
13.009	0.003	13736	37.41	M/P-Xylene
13.964	0.000	4897	17.10	O-Xylene
4.531	-0.003	282	1.66	MTBE

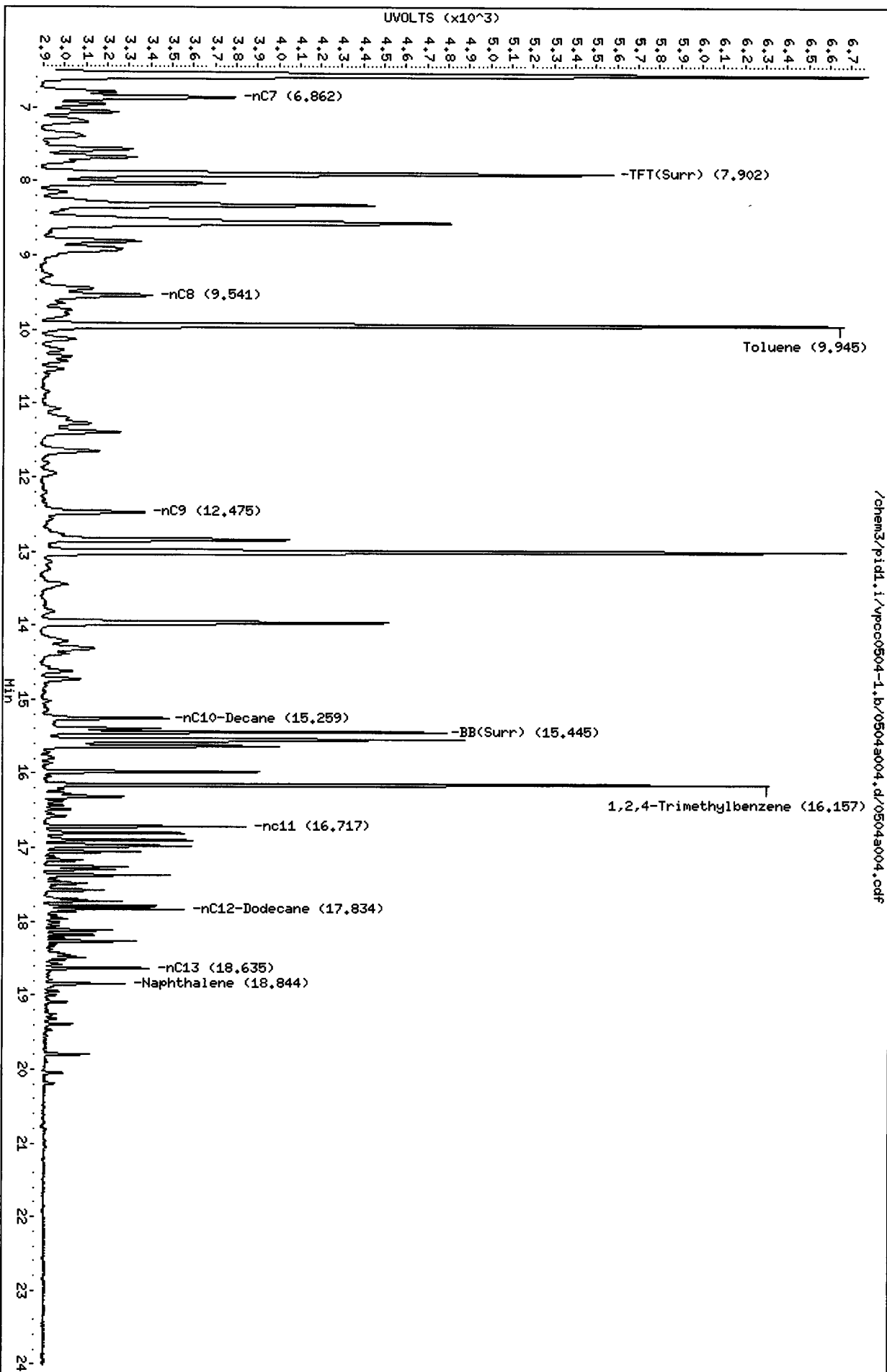
A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0504-1.b/0504a004.d
Date: 04-MAY-2011 06:54
Client ID:
Sample Info: LCS0504

Column phase: RTX 502-2 FID

Instrument: pid1.i
Operator: HH
Column diameter: 0.18



/chem3/pid1.i/vpcc0504-1.b/0504a004.d/0504a004.cdf

Data File: /chem3/pid1.i/vpcc0504-2.b/0504a004.d

Date: 04-MAY-2011 06:54

Client ID:

Sample Info: LCS0504

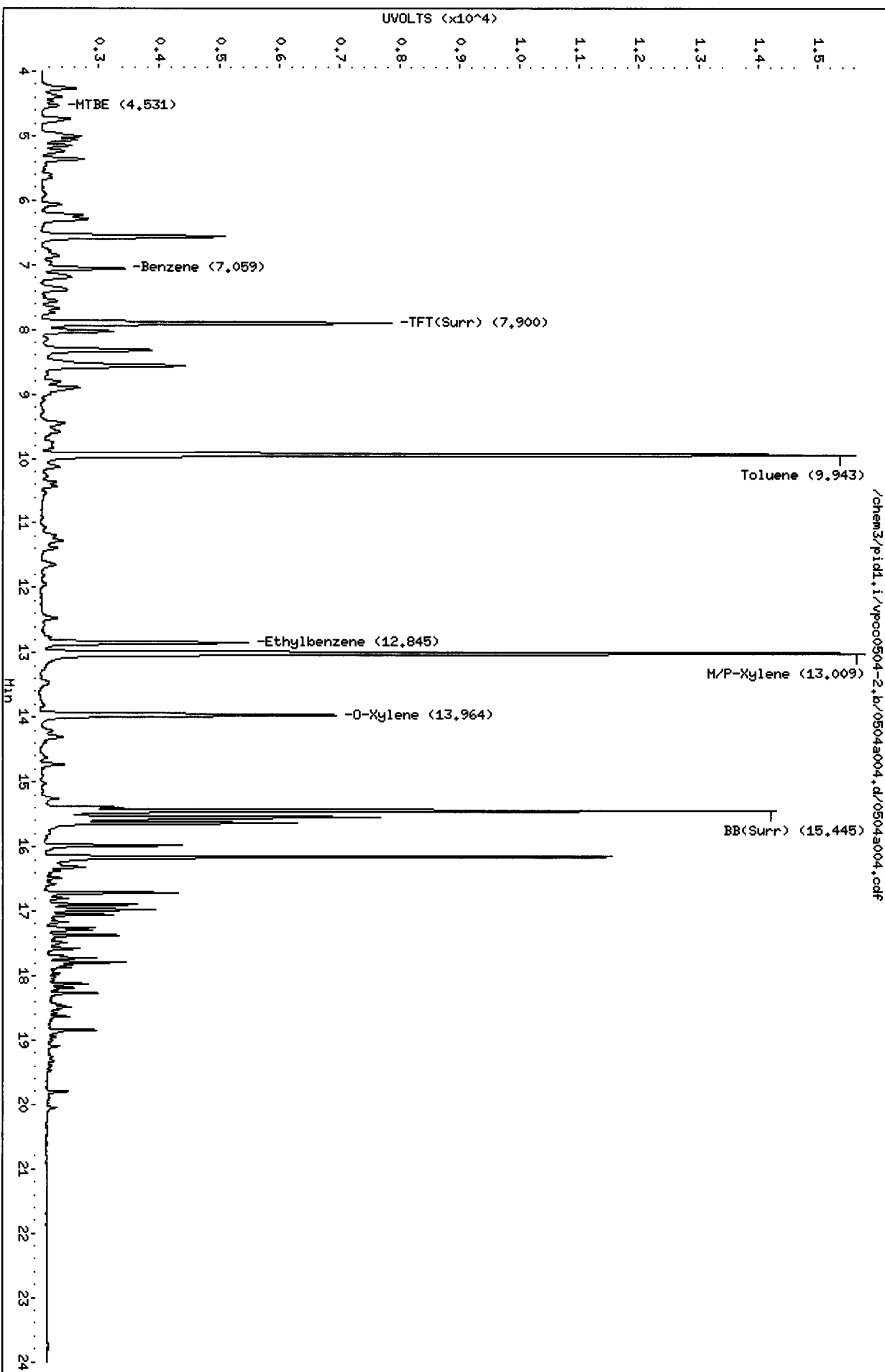
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: HH

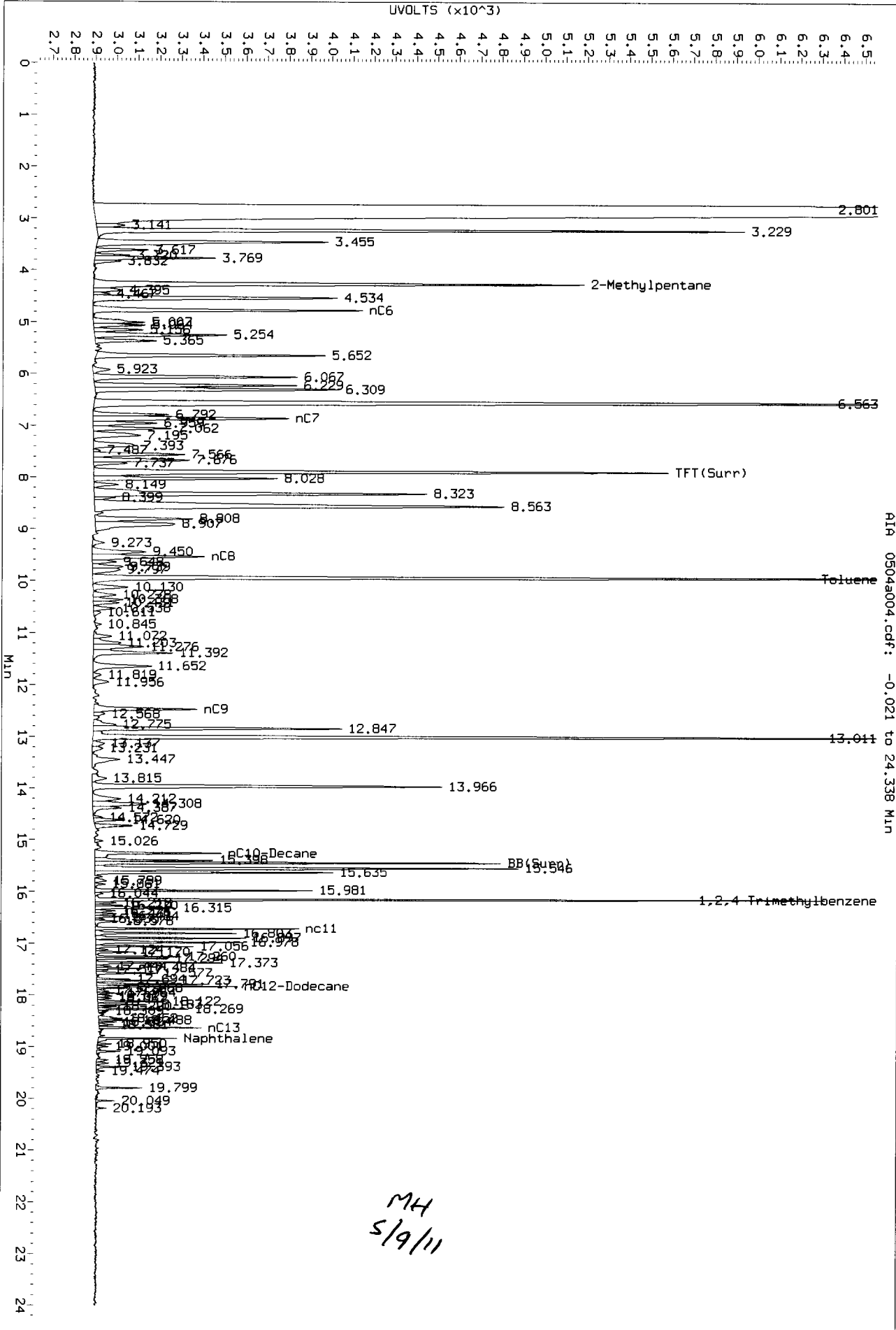
Column diameter: 0.18

Page 1

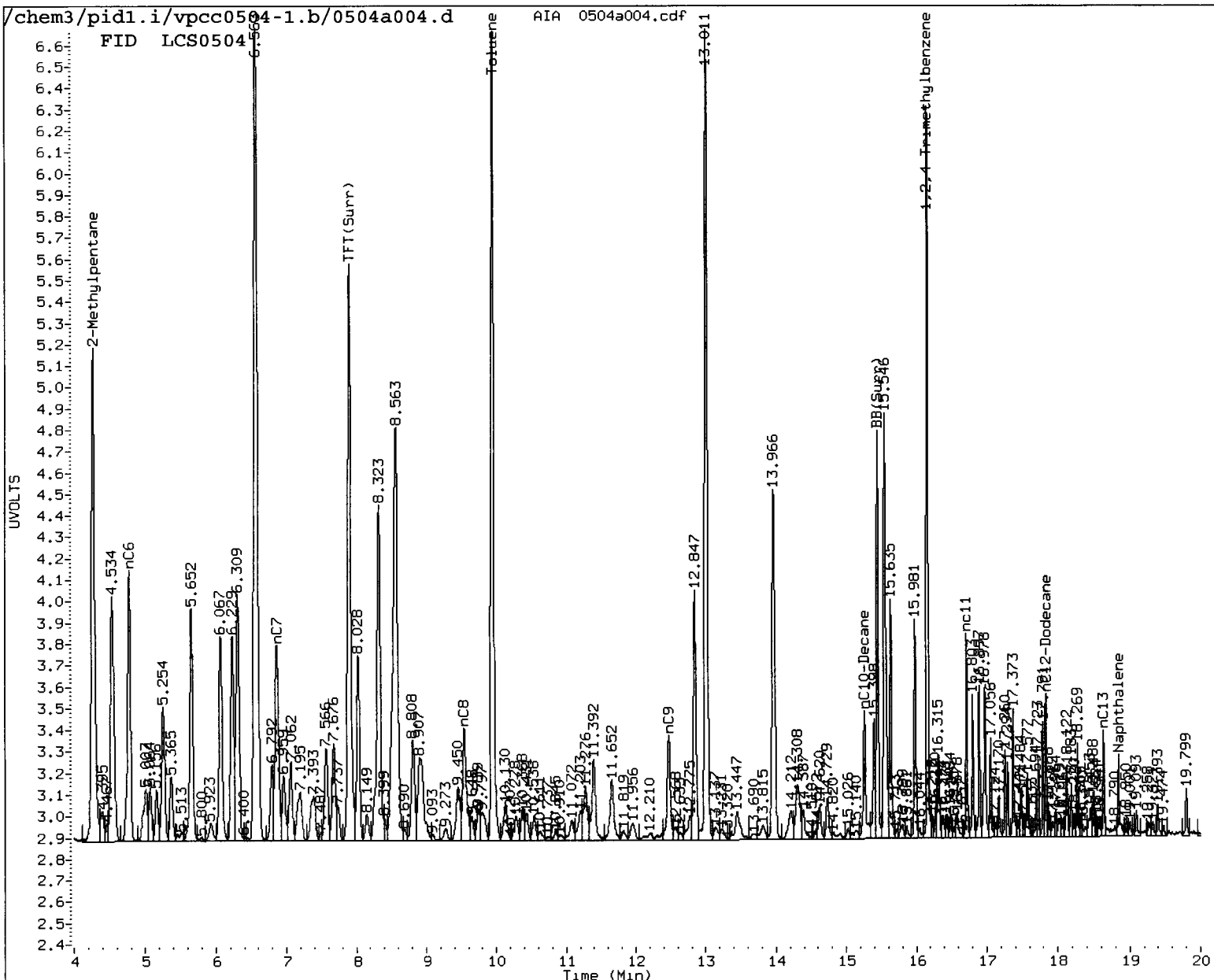


ST58 : 01092

Data File: /chem3/pid1.1/vpcc0504-1.b/0504a004.d/0504a004.cdf
Injection Date: 04-MAY-2011 06:54
Instrument: pid1.1
Client Sample ID:



MH
5/9/11



MANUAL INTEGRATION

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

Analyst: MH Date: 5/9/11

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0504-1.b/0504a005.d ARI ID: LCSD0504
Data file 2: /chem3/pid1.i/vpcc0504-2.b/0504a005.d Client ID:
Method: /chem3/pid1.i/vpcc0504-2.b/PIDB.m Injection Date: 04-MAY-2011 07:23
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	----	----	-----
7.901	0.000	2722	42025	96.2	TFT(Surr)
15.445	0.000	1940	17147	93.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (9.84 to 17.93)	374773	364222	0.972 M
8015B 2MP-TMB (4.17 to 16.26)	747017	741702	0.993 M
AK101 nC6-nC10 (4.67 to 15.16)	604063	595041	0.985 M
NWTPHG Tol-Nap (9.84 to 18.94)	403422	387336	0.960 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
7.900	0.001	5852	89.9	TFT(Surr)
15.445	0.001	12624	93.7	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.059	-0.001	1386	3.16	Benzene
9.943	0.001	13887	35.52	Toluene
12.845	0.000	3515	10.29	Ethylbenzene
13.009	0.003	13810	37.61	M/P-Xylene
13.964	0.000	5007	17.48	O-Xylene
4.530	-0.005	279	1.64	MTBE

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

Data File: /chem3/pid1.i/vpcc0504-1.b/0504a005.d

Date: 04-MAY-2011 07:23

Client ID:

Sample Info: LCSD0504

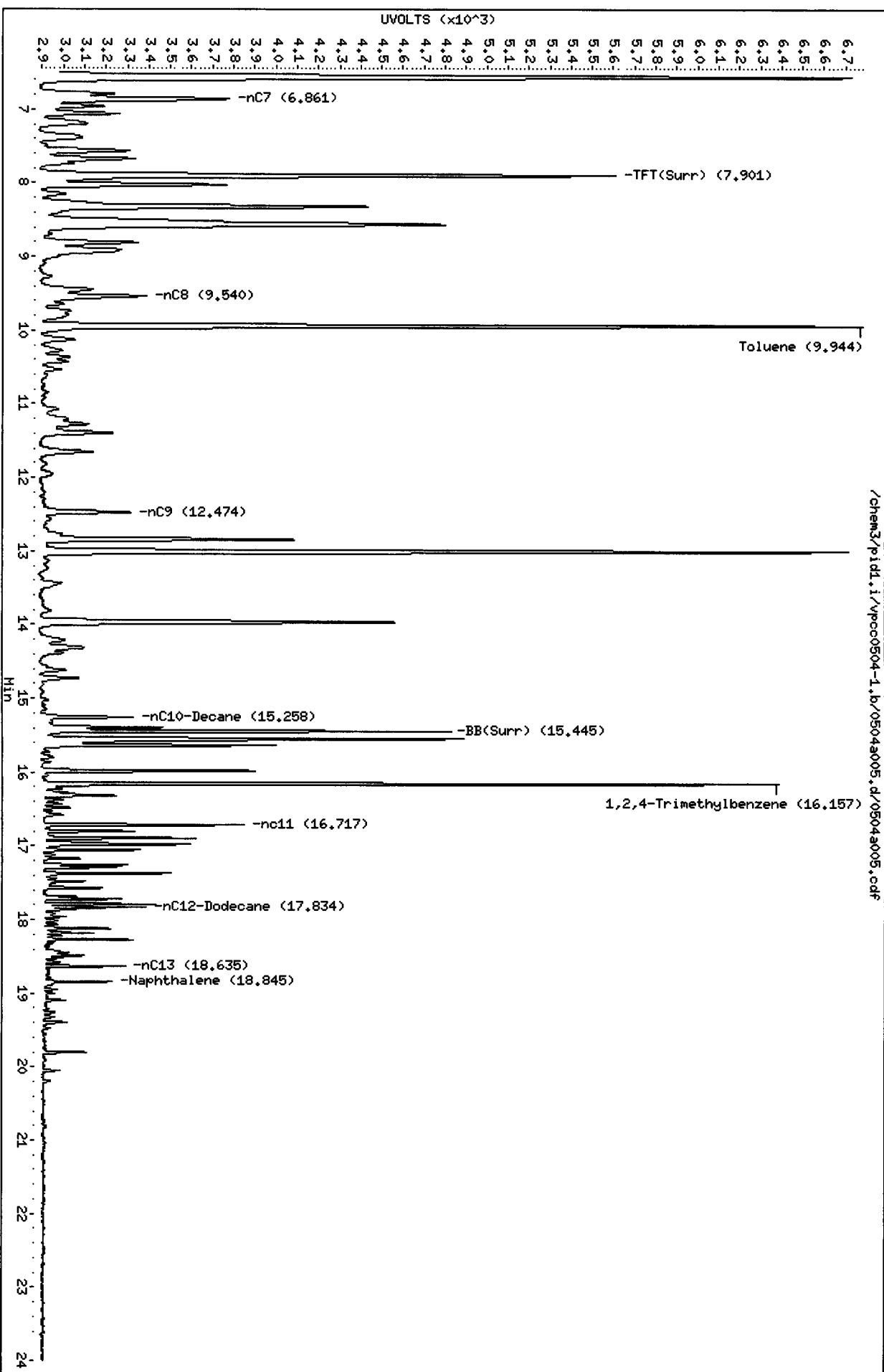
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

Page 1



ST98: 01096

Data File: /chem3/pid1.i/vpcc0504-2.b/0504a005.d
Date: 04-MAY-2011 07:23

Client ID:

Sample Info: LCSD0504

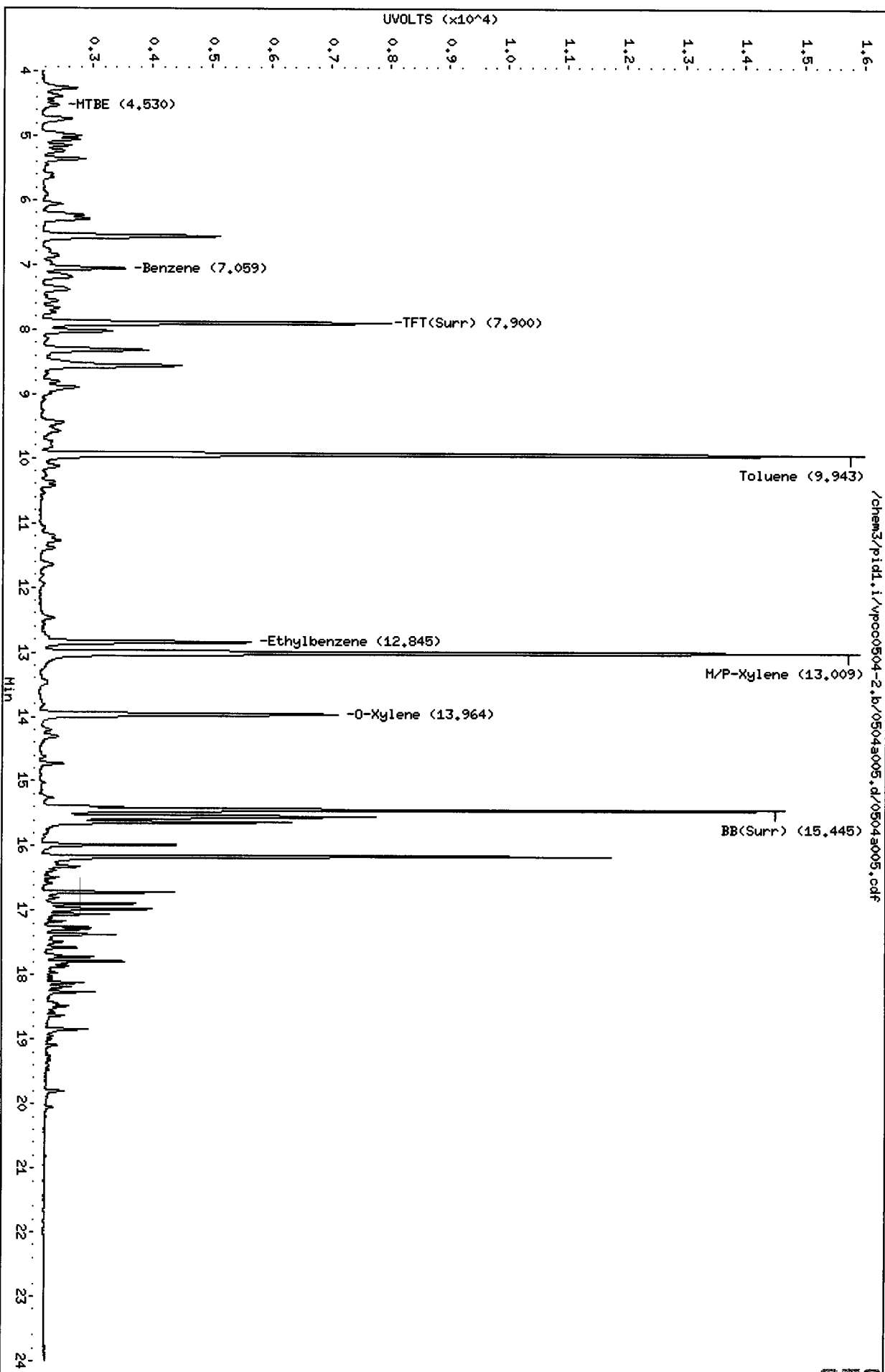
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

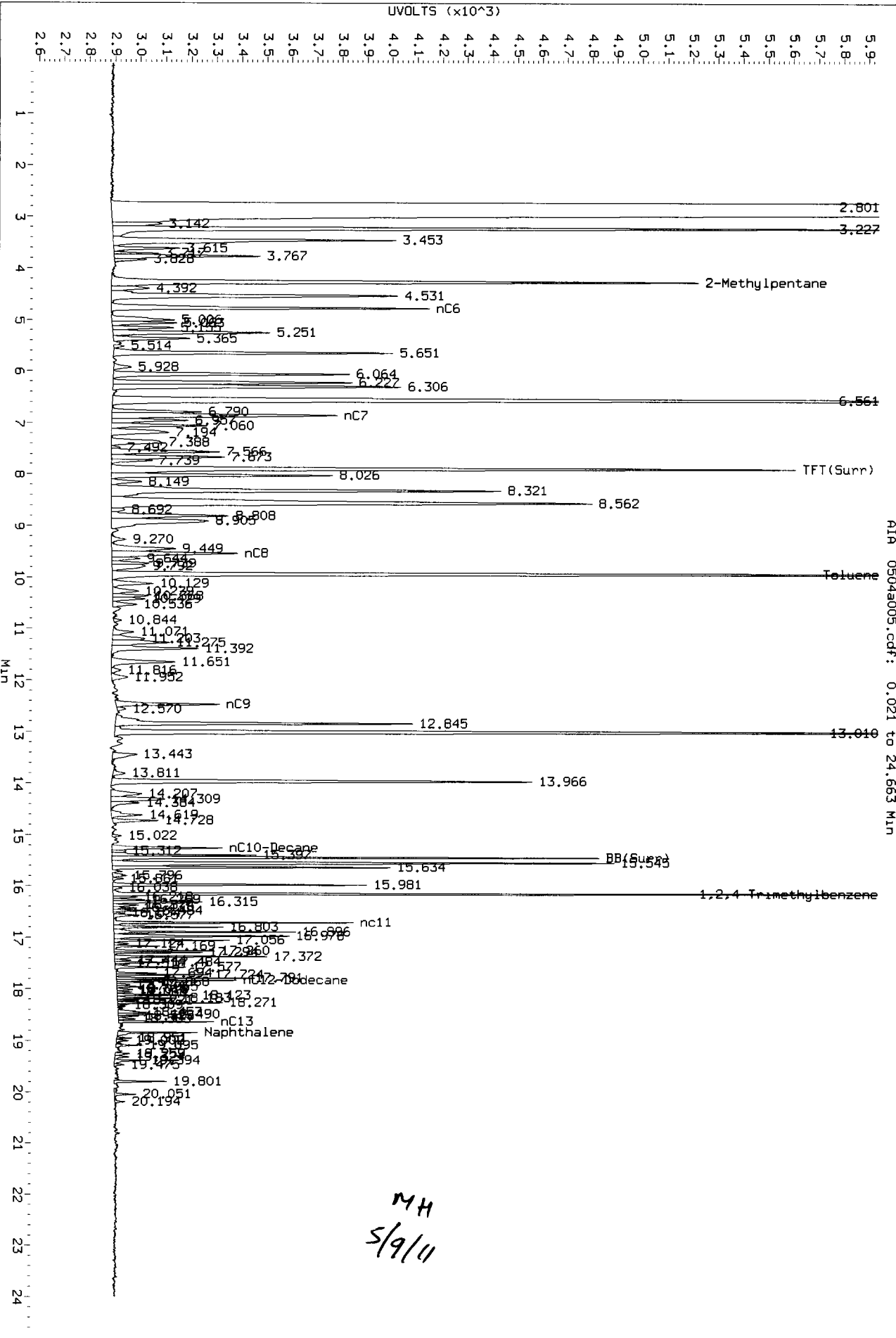
Column diameter: 0.18

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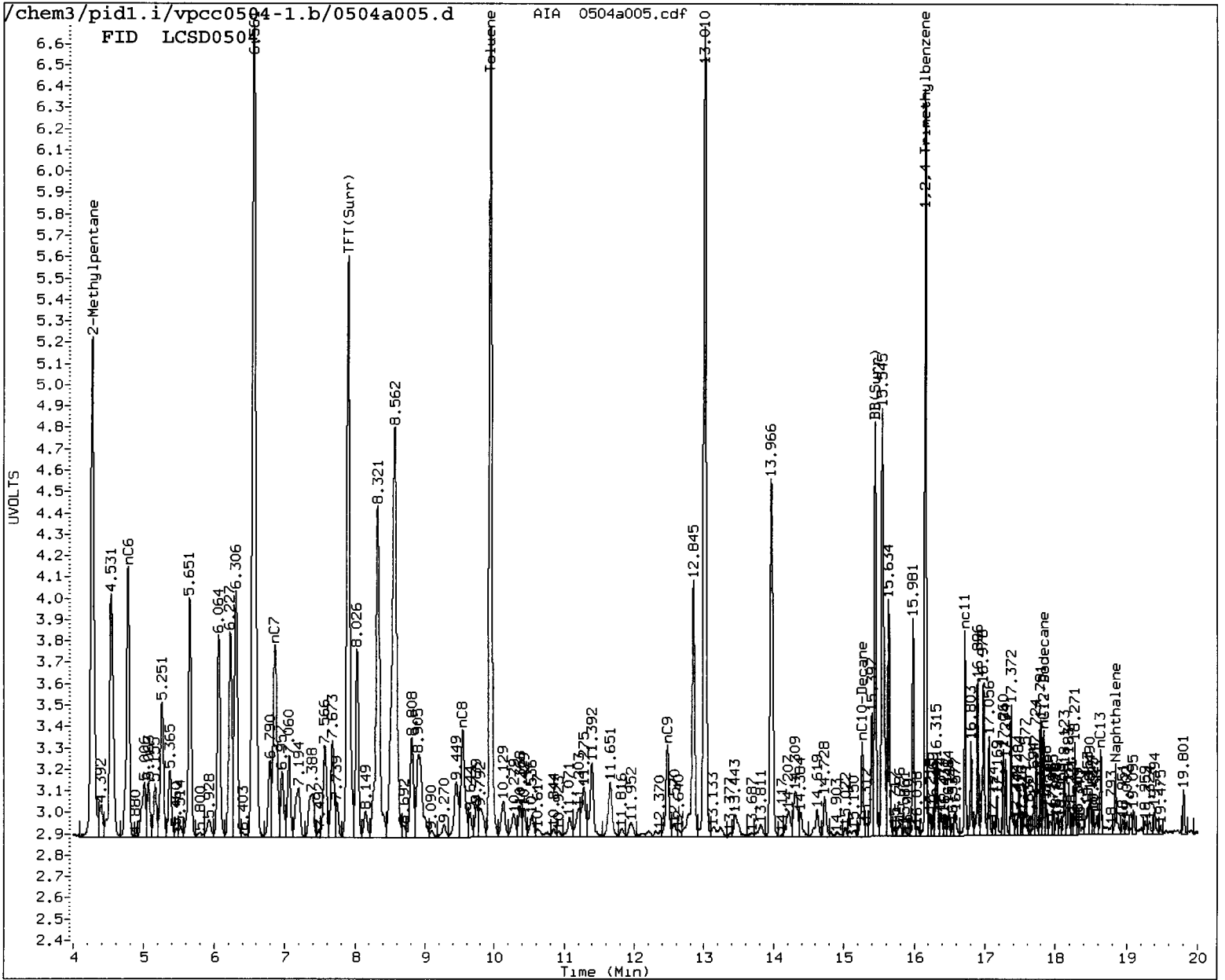


ST98:01097

Data File: /chem3/pid1.1/vpcc0504-1.b/0504a005.d/0504a005.cdf
 Injection Date: 04-MAY-2011 07:23
 Instrument: pid1.1
 Client Sample ID:



MH
5/9/11



MANUAL INTEGRATION

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

Analyst: MH Date: 5/9/4

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0504-1.b/0504a006.d ARI ID: MB0504
Data file 2: /chem3/pid1.i/vpcc0504-2.b/0504a006.d Client ID:
Method: /chem3/pid1.i/vpcc0504-2.b/PIDB.m Injection Date: 04-MAY-2011 07:52
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.900	-0.001	2448	33026	86.5	TFT(Surr)
15.444	0.000	1801	15127	86.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.84 to 17.93)	374773	7142	0.019
8015B 2MP-TMB (4.17 to 16.26)	747017	4959	0.007
AK101 nC6-nC10 (4.67 to 15.16)	604063	2368	0.004
NWTPHG Tol-Nap (9.84 to 18.94)	403422	8737	0.022

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.898	-0.001	5338	82.0	TFT(Surr)
15.444	0.000	11587	86.0	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/pid1.i/vpcc0504-1.b/0504a006.d

Date: 04-MAY-2011 07:52

Client ID:

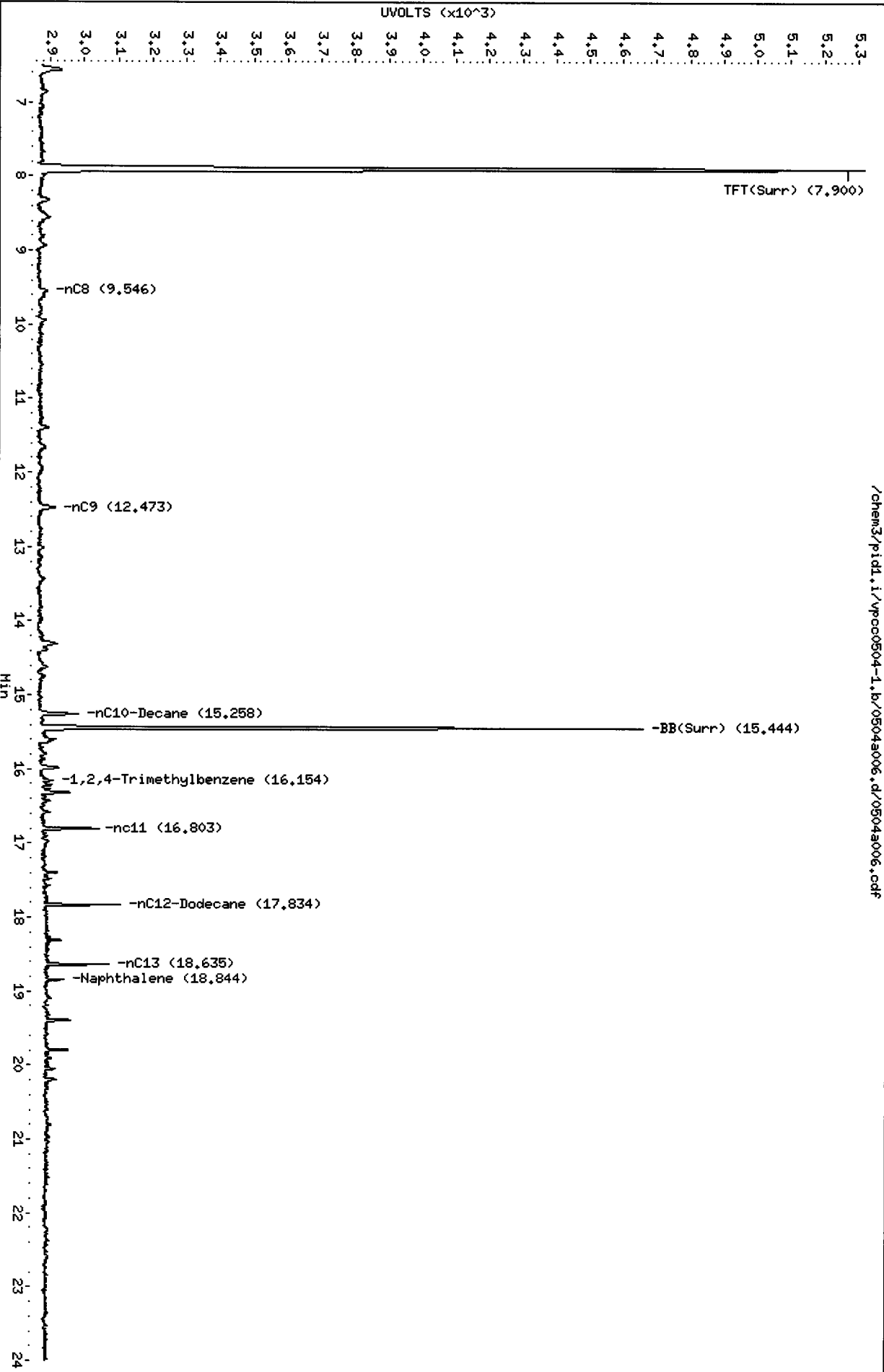
Sample Info: HB0504

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0504-2.b/0504a006.d

Date: 04-MAY-2011 07:52

Client ID:

Sample Info: HB0504

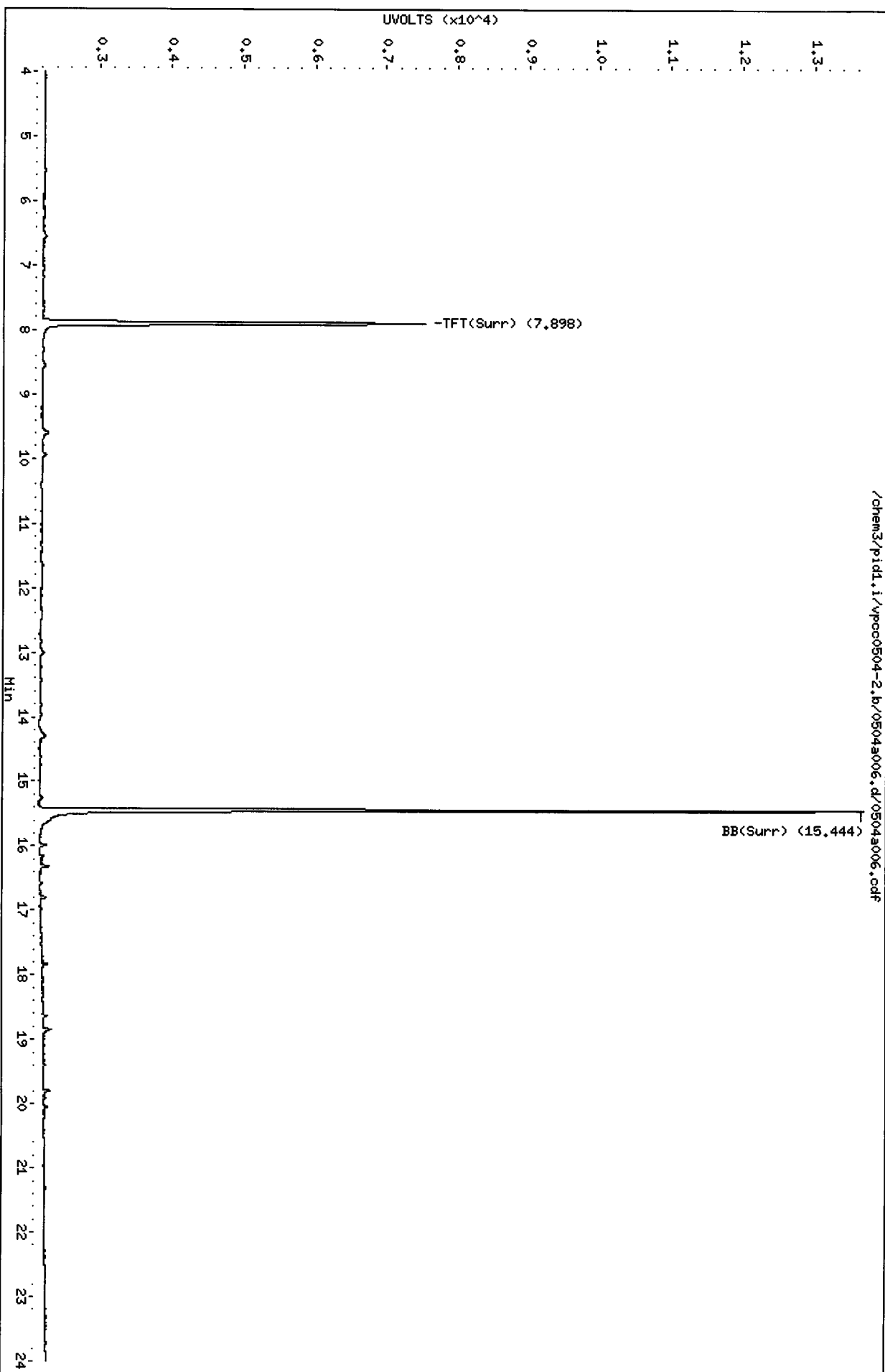
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

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MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pidl.i/vpcc0504-1.b/0504a007.d ARI ID: SU21A
Data file 2: /chem3/pidl.i/vpcc0504-2.b/0504a007.d Client ID: MW07-042711
Method: /chem3/pidl.i/vpcc0504-2.b/PIDB.m Injection Date: 04-MAY-2011 08:40
Instrument: pidl.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.902	0.001	2655	36008	93.8	TFT(Surr)
15.445	0.000	1903	15971	91.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.84 to 17.93)	374773	2274	0.006
8015B 2MP-TMB (4.17 to 16.26)	747017	333	0.000
AK101 nC6-nC10 (4.67 to 15.16)	604063	0	0.000
NWTPHG Tol-Nap (9.84 to 18.94)	403422	3343	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
7.899	0.001	5907	90.7	TFT(Surr)
15.445	0.000	12287	91.2	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/pid1.i/vpcc0504-1.b/0504a007.d

Date: 04-MAY-2011 08:40

Client ID: MW07-042711

Sample Info: SU21A

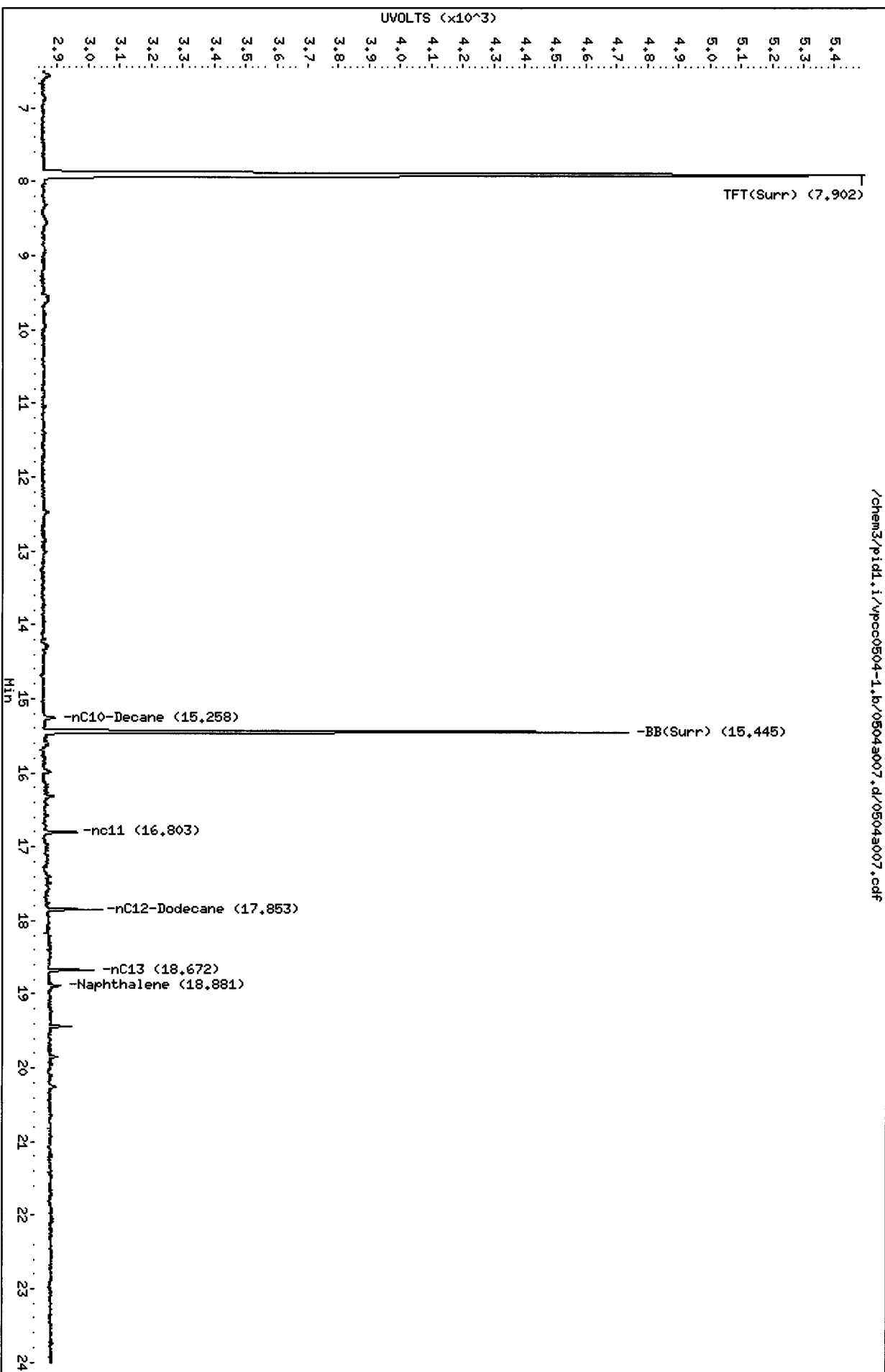
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

/chem3/pid1.i/vpcc0504-1.b/0504a007.d/0504a007.cdf

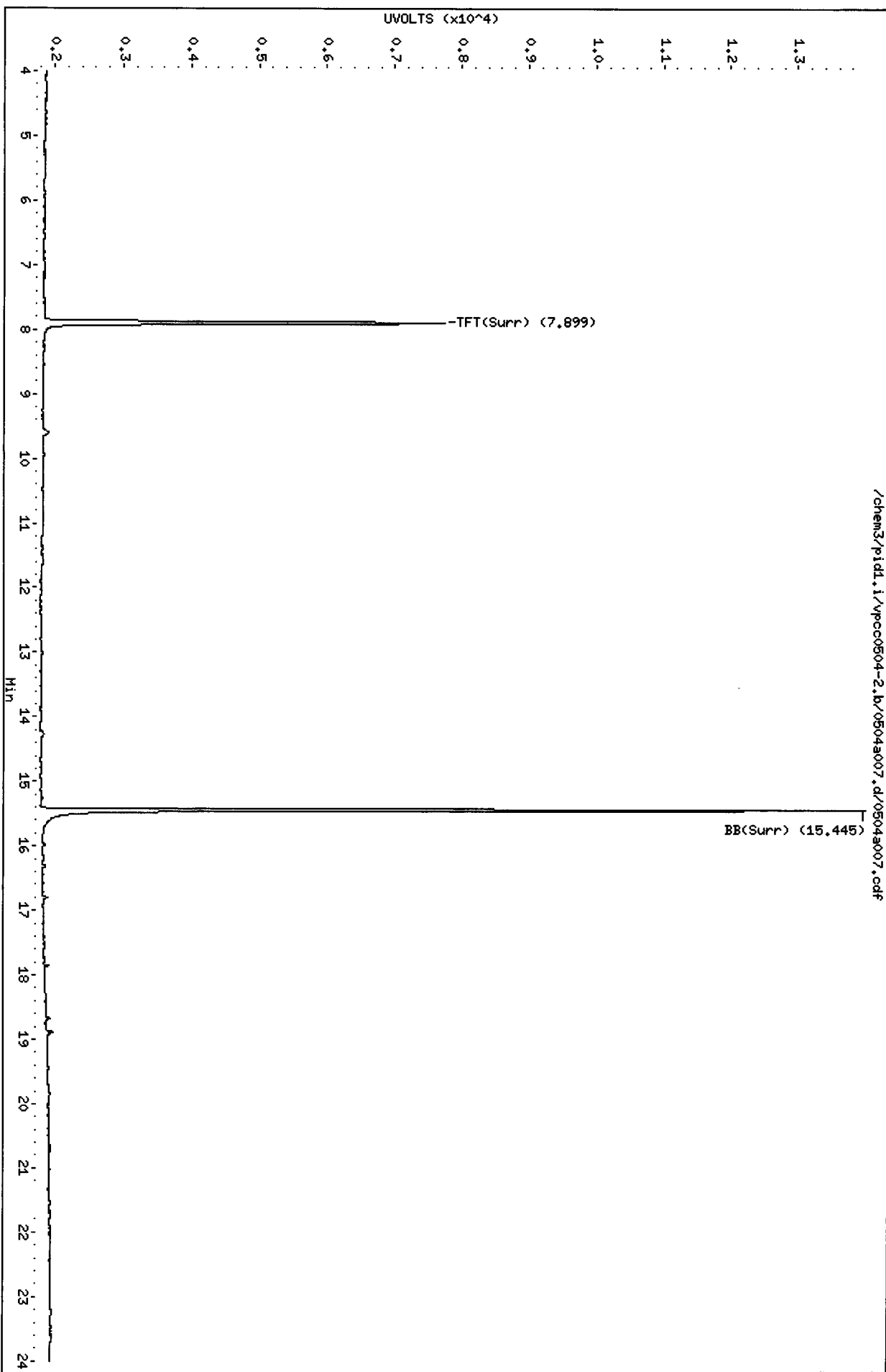


Data File: /chem3/pid1.i/vpcc0504-2.b/0504a007.d
Date: 04-MAY-2011 08:40
Client ID: MW07-042711
Sample Info: SU21A

Column phase: RTX 502-2 PID

/chem3/pid1.i/vpcc0504-2.b/0504a007.d/0504a007.cdf

Instrument: pid1.i
Operator: MH
Column diameter: 0.18



MH
5/9/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0504-1.b/0504a008.d ARI ID: SU21B
Data file 2: /chem3/pid1.i/vpcc0504-2.b/0504a008.d Client ID: MW11-042711
Method: /chem3/pid1.i/vpcc0504-2.b/PIDB.m Injection Date: 04-MAY-2011 09:09
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.901	0.000	2648	36317	93.6	TFT(Surr)
15.445	0.000	1919	15929	92.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.84 to 17.93)	374773	965	0.003
8015B 2MP-TMB (4.17 to 16.26)	747017	0	0.000
AK101 nC6-nC10 (4.67 to 15.16)	604063	0	0.000
NWTPHG Tol-Nap (9.84 to 18.94)	403422	1505	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
7.899	0.001	5873	90.2	TFT(Surr)
15.445	0.000	12381	91.8	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

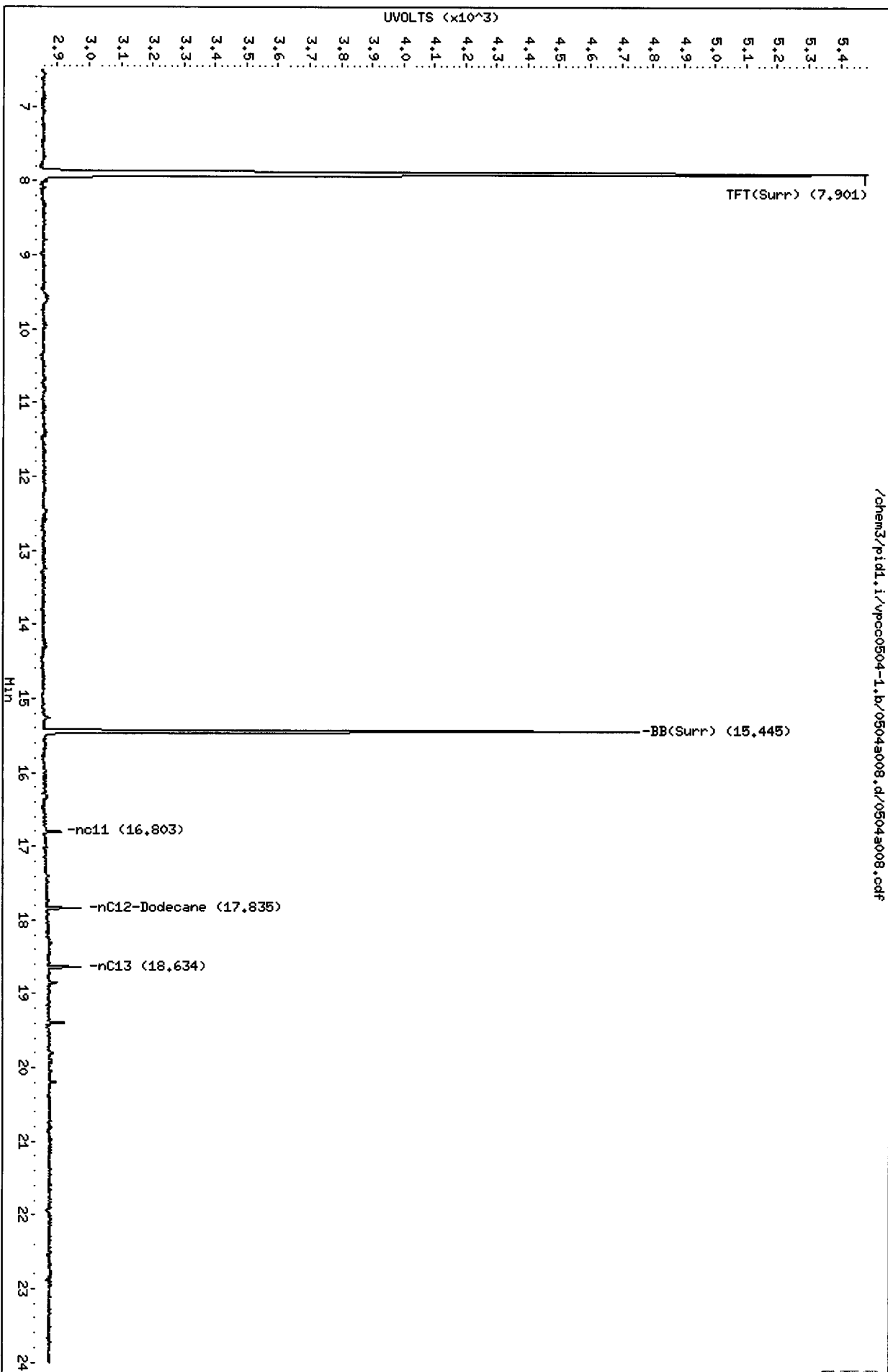
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0504-1.b/0504a008.d
Date: 04-MAY-2011 09:09
Client ID: M411-042711
Sample Info: SU21B

Column phase: RTX 502-2 FID

/chem3/pid1.i/vpcc0504-1.b/0504a008.d/0504a008.cdf

Instrument: pid1.i
Operator: MH
Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0504-2.b/0504a008.d

Date: 04-MAY-2011 09:09

Client ID: M41-042714

Sample Info: SU21B

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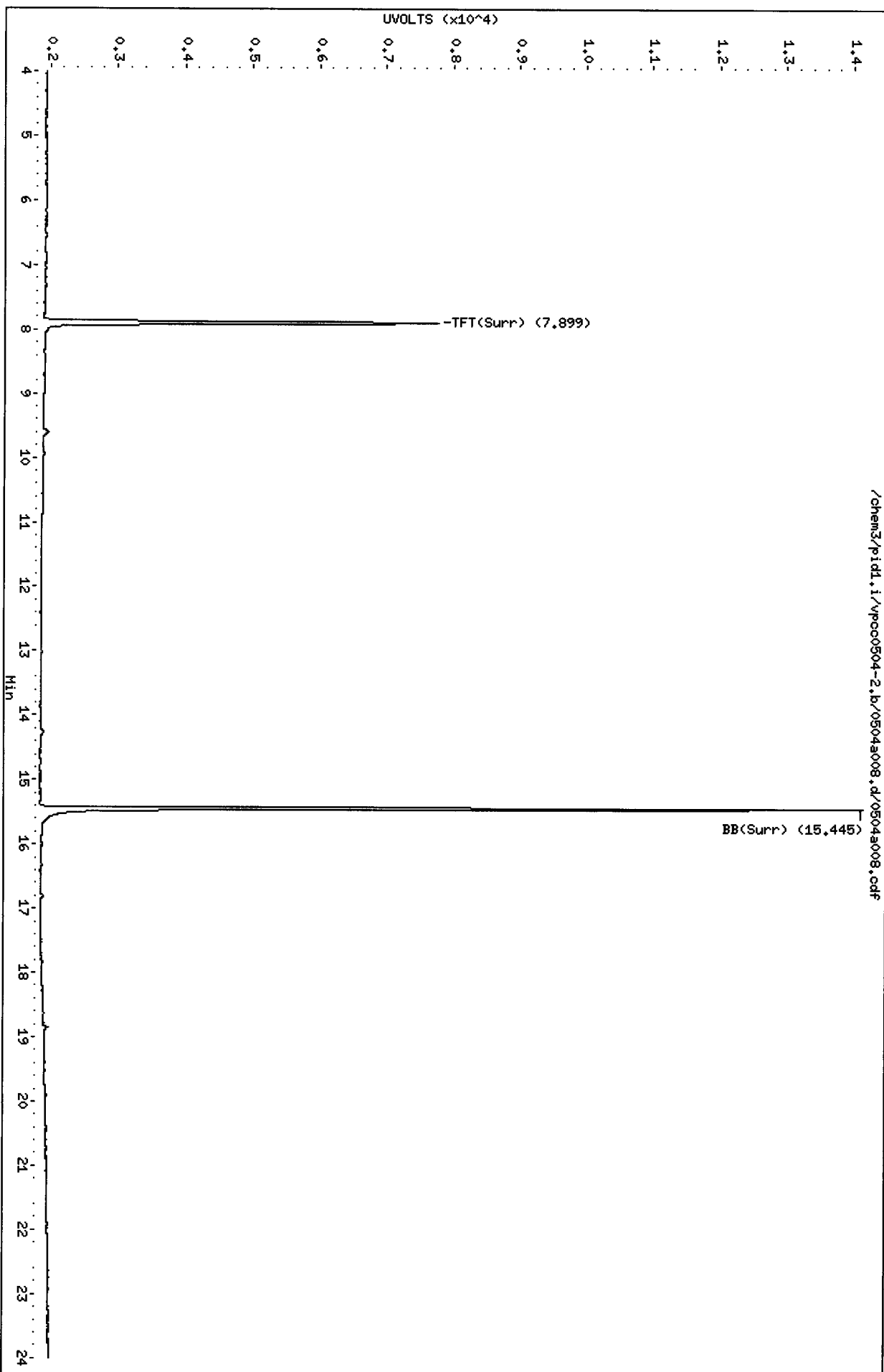
Instrument: pid1.i

Operator: HH

Column diameter: 0.18

Column phase: RTX 502-2 PID

/chem3/pid1.i/vpcc0504-2.b/0504a008.d/0504a008.cdf



ST98 : 01108

MH
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Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0504-1.b/0504a009.d ARI ID: SU21C
Data file 2: /chem3/pid1.i/vpcc0504-2.b/0504a009.d Client ID: MW10-042711
Method: /chem3/pid1.i/vpcc0504-2.b/PIDB.m Injection Date: 04-MAY-2011 09:39
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	----	----	-----
7.902	0.001	2702	36526	95.5	TFT(Surr)
15.445	0.000	1942	16184	93.1	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.84 to 17.93)	374773	760	0.002
8015B 2MP-TMB (4.17 to 16.26)	747017	1	0.000
AK101 nC6-nC10 (4.67 to 15.16)	604063	1	0.000
NWTPHG Tol-Nap (9.84 to 18.94)	403422	1452	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
--	----	-----	----	-----
7.899	0.001	5917	90.9	TFT(Surr)
15.445	0.001	12412	92.1	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

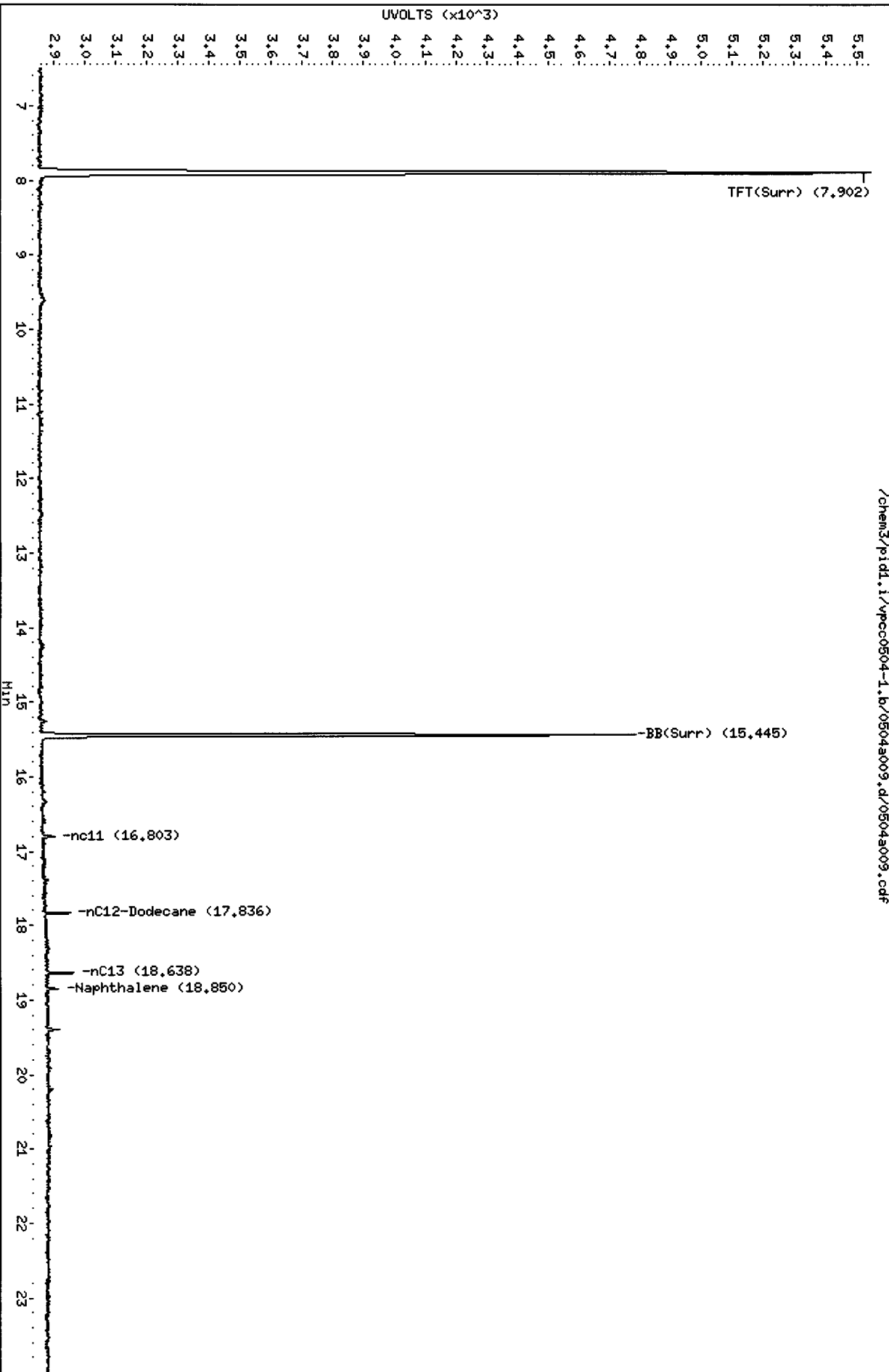
A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0504-1.b/0504a009.d
Date: 04-MAY-2011 09:39
Client ID: MML0-042711
Sample Info: SU21C

Column phase: RTX 502-2 FID

Instrument: pid1.i
Operator: HH
Column diameter: 0.18



/chem3/pid1.i/vpcc0504-1.b/0504a009.d/0504a009.cdf

Data File: /chem3/pid1.i/vpcc0504-2.b/0504a009.d

Date : 04-MAY-2011 09:39

Client ID: MM40-042711

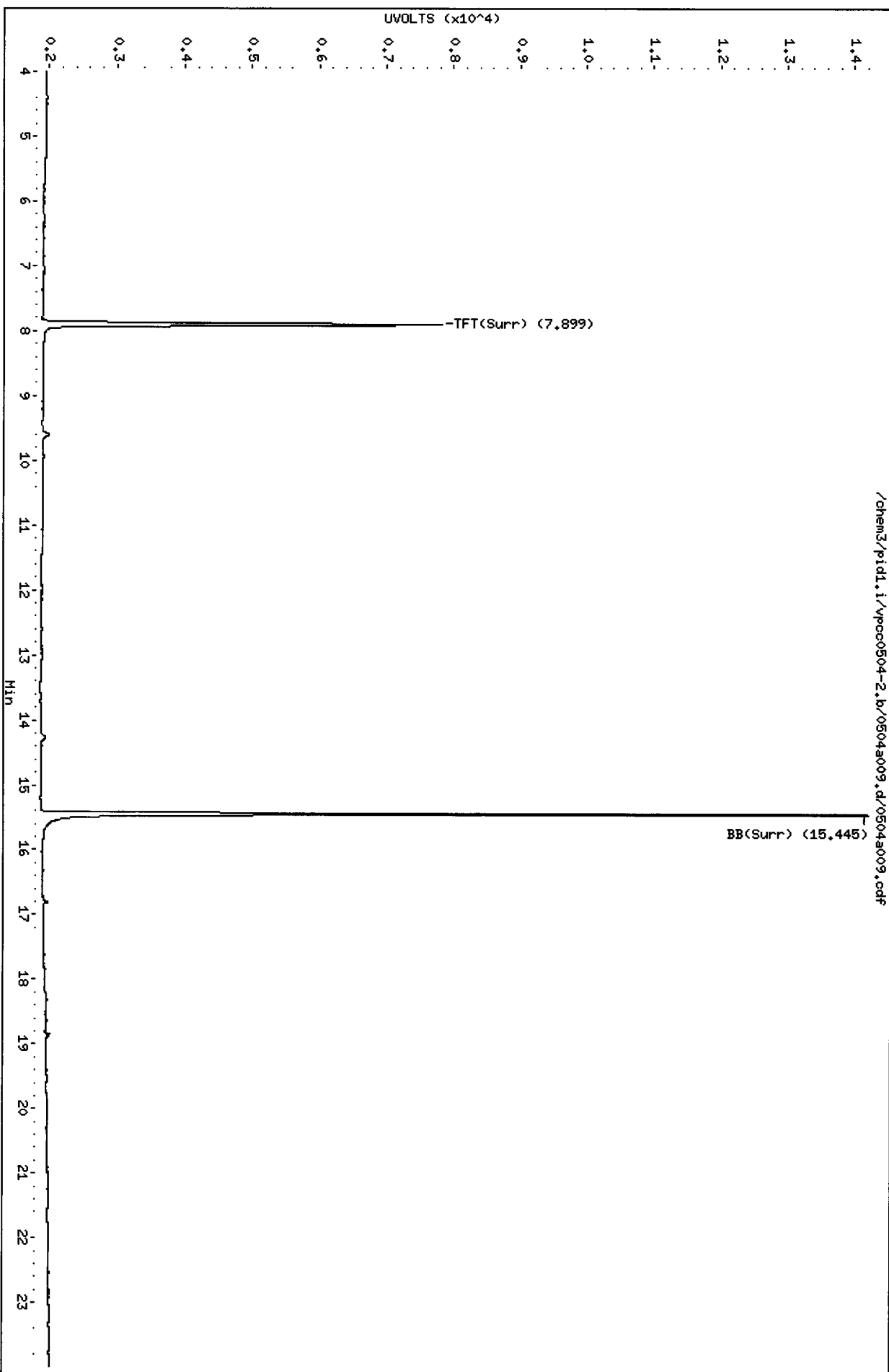
Sample Info: SU21C

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18



MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0504-1.b/0504a010.d ARI ID: SU21D
Data file 2: /chem3/pid1.i/vpcc0504-2.b/0504a010.d Client ID: MW09-042711
Method: /chem3/pid1.i/vpcc0504-2.b/PIDB.m Injection Date: 04-MAY-2011 10:08
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.901	0.000	2656	36246	93.9	TFT(Surr)
15.446	0.001	1912	15972	91.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.84 to 17.93)	374773	575	0.002
8015B 2MP-TMB (4.17 to 16.26)	747017	1	0.000
AK101 nC6-nC10 (4.67 to 15.16)	604063	1	0.000
NWTPHG Tol-Nap (9.84 to 18.94)	403422	1154	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
7.899	0.001	5815	89.3	TFT(Surr)
15.446	0.001	12313	91.3	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0504-1.b/0504a010.d

Date : 04-MAY-2011 10:08

Client ID: MW09-042711

Sample Info: SU21D

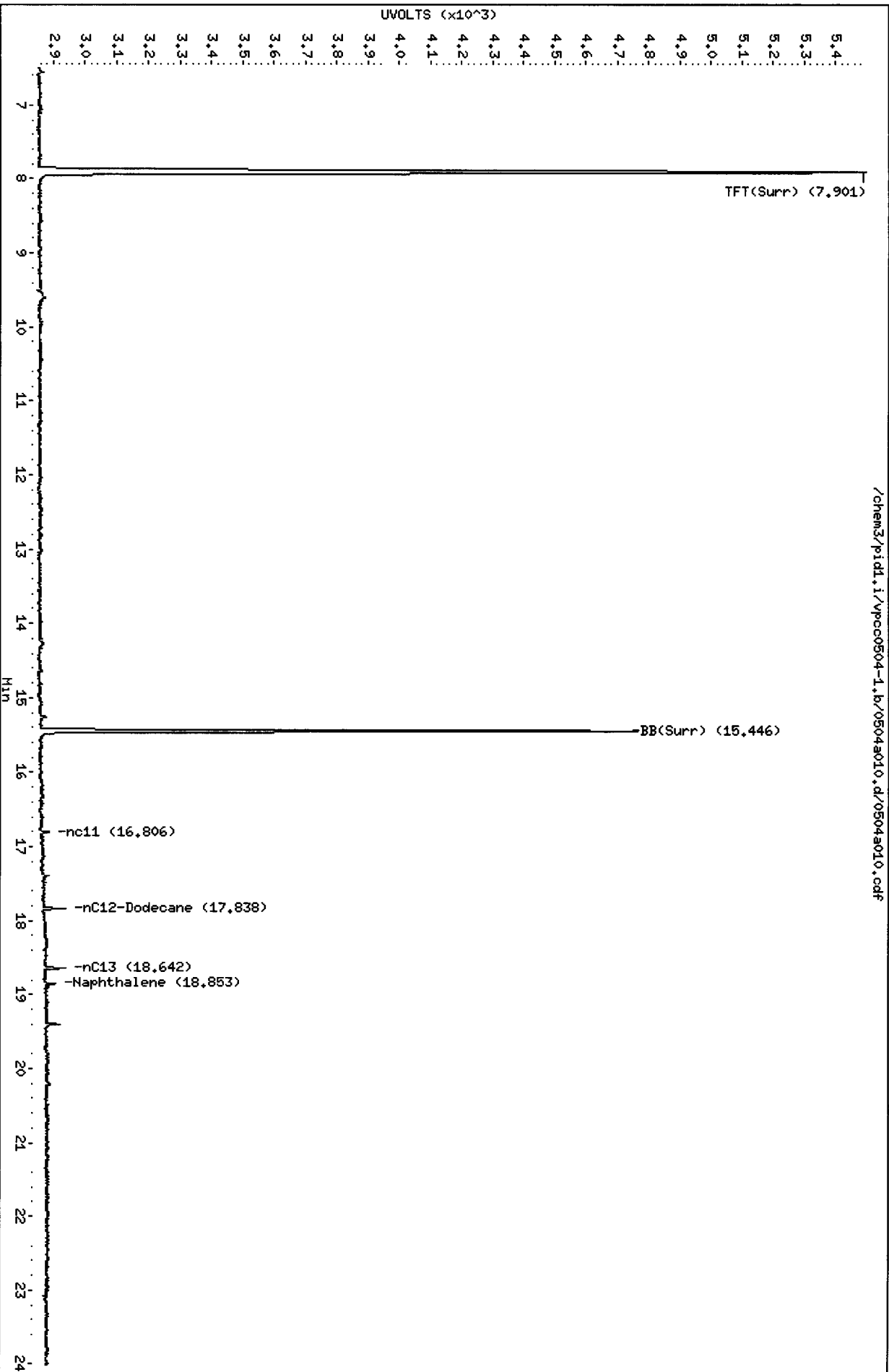
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

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Data File: /chem3/pid1.i/vpcc0504-2.b/0504a010.d

Date: 04-MAY-2011 10:08

Client ID: MM09-042714

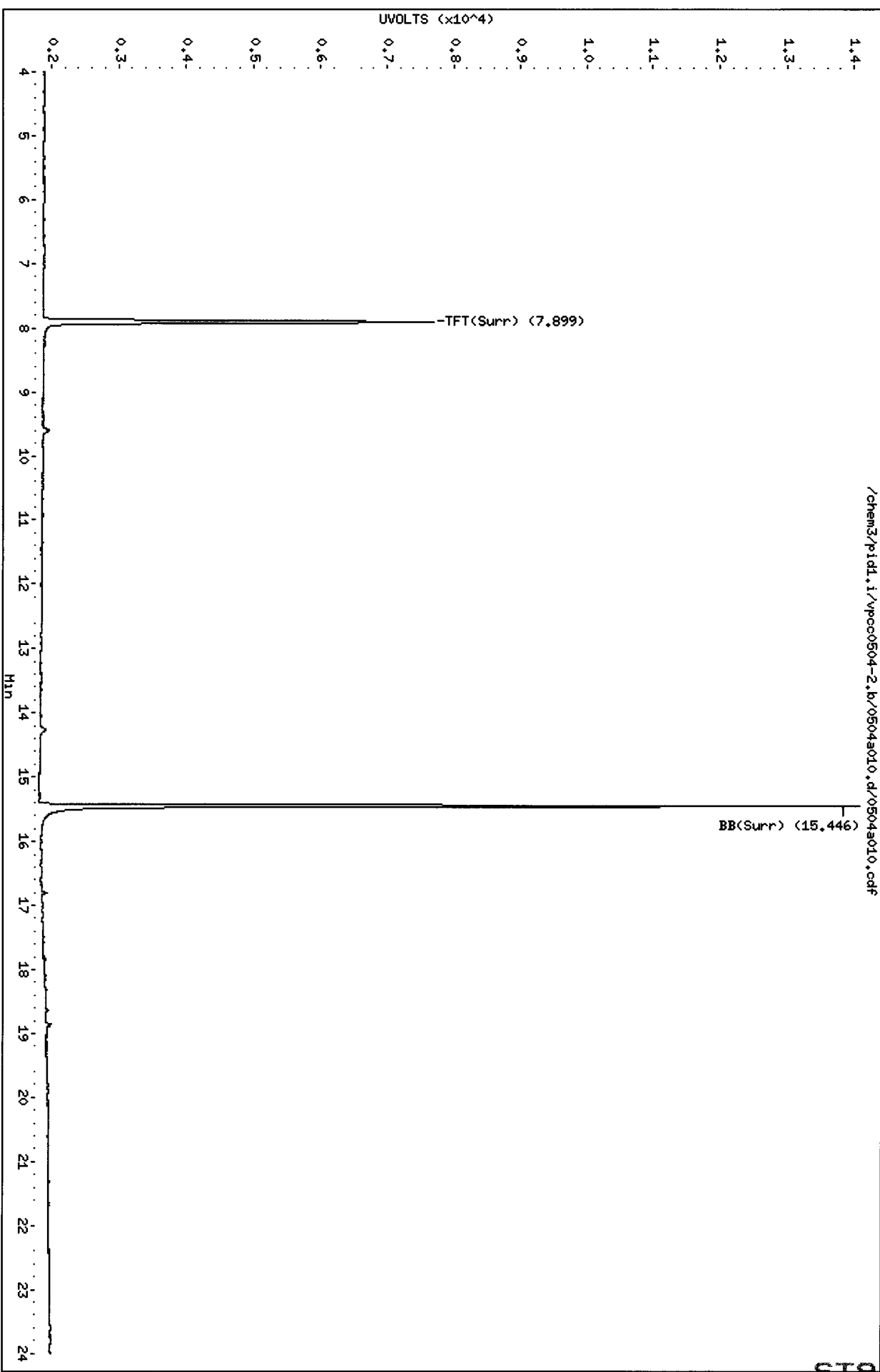
Sample Info: SU21D

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18



MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0504-1.b/0504a011.d ARI ID: SU21E
Data file 2: /chem3/pid1.i/vpcc0504-2.b/0504a011.d Client ID: MW08-042711
Method: /chem3/pid1.i/vpcc0504-2.b/PIDB.m Injection Date: 04-MAY-2011 10:37
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	----	----	-----
7.901	0.000	2689	36241	95.1	TFT(Surr)
15.446	0.001	1968	16293	94.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.84 to 17.93)	374773	665	0.002
8015B 2MP-TMB (4.17 to 16.26)	747017	1	0.000
AK101 nC6-nC10 (4.67 to 15.16)	604063	1	0.000
NWTPHG Tol-Nap (9.84 to 18.94)	403422	1215	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
--	-----	-----	----	-----
7.899	0.000	5896	90.5	TFT(Surr)
15.446	0.001	12558	93.2	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/pid1.i/vpcc0504-1.b/0504a011.d

Date: 04-MAY-2011 10:37

Client ID: HM08-042711

Sample Info: SU21E

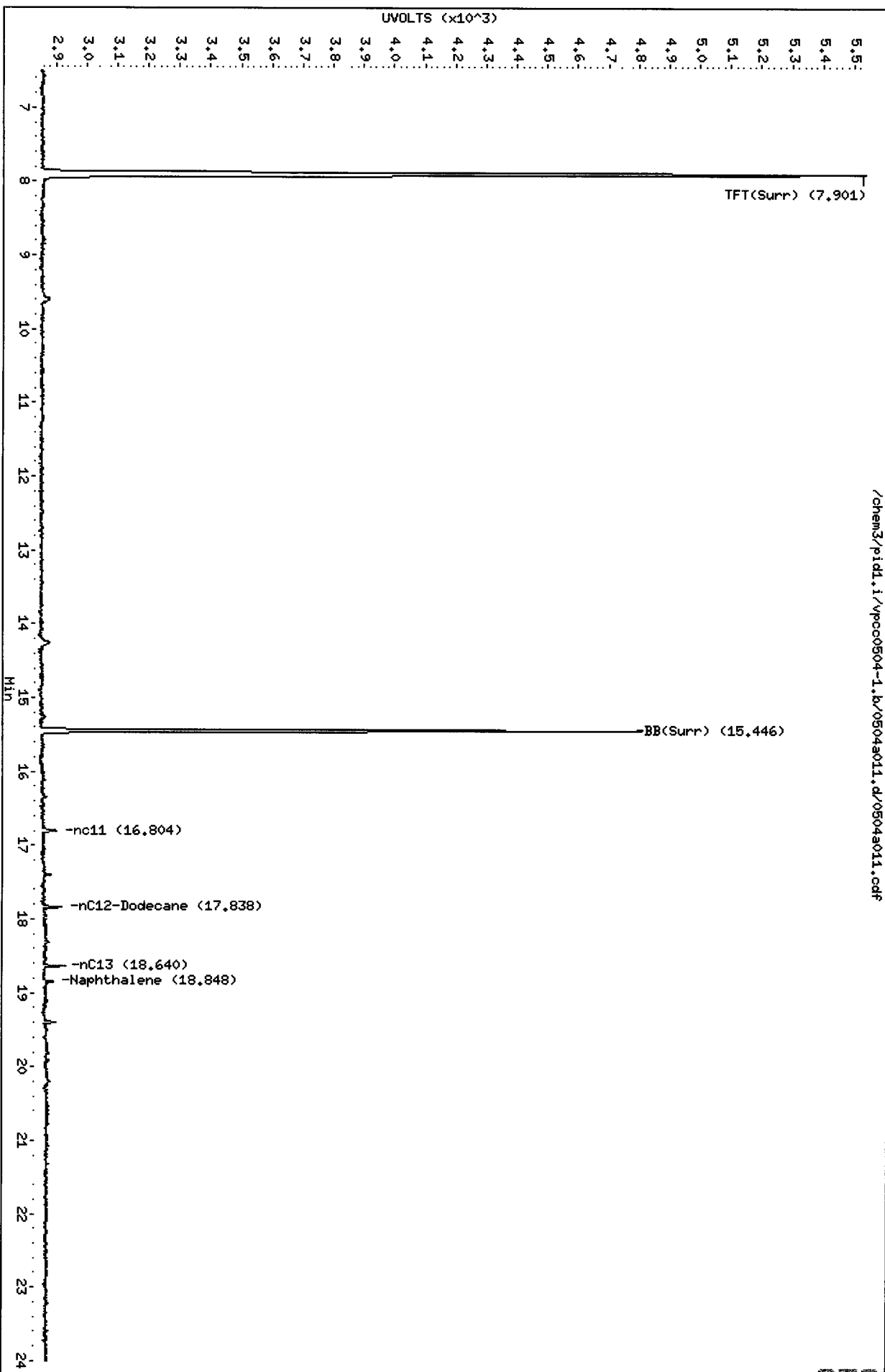
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

Page 1



/chem3/pid1.i/vpcc0504-1.b/0504a011.d/0504a011.cdf

ST98: 01116

Data File: /chem3/pidd.i/vpcc0504-2.b/0504a011.d

Date : 04-MAY-2011 10:37

Client ID: MM08-042711

Sample Info: SU21E

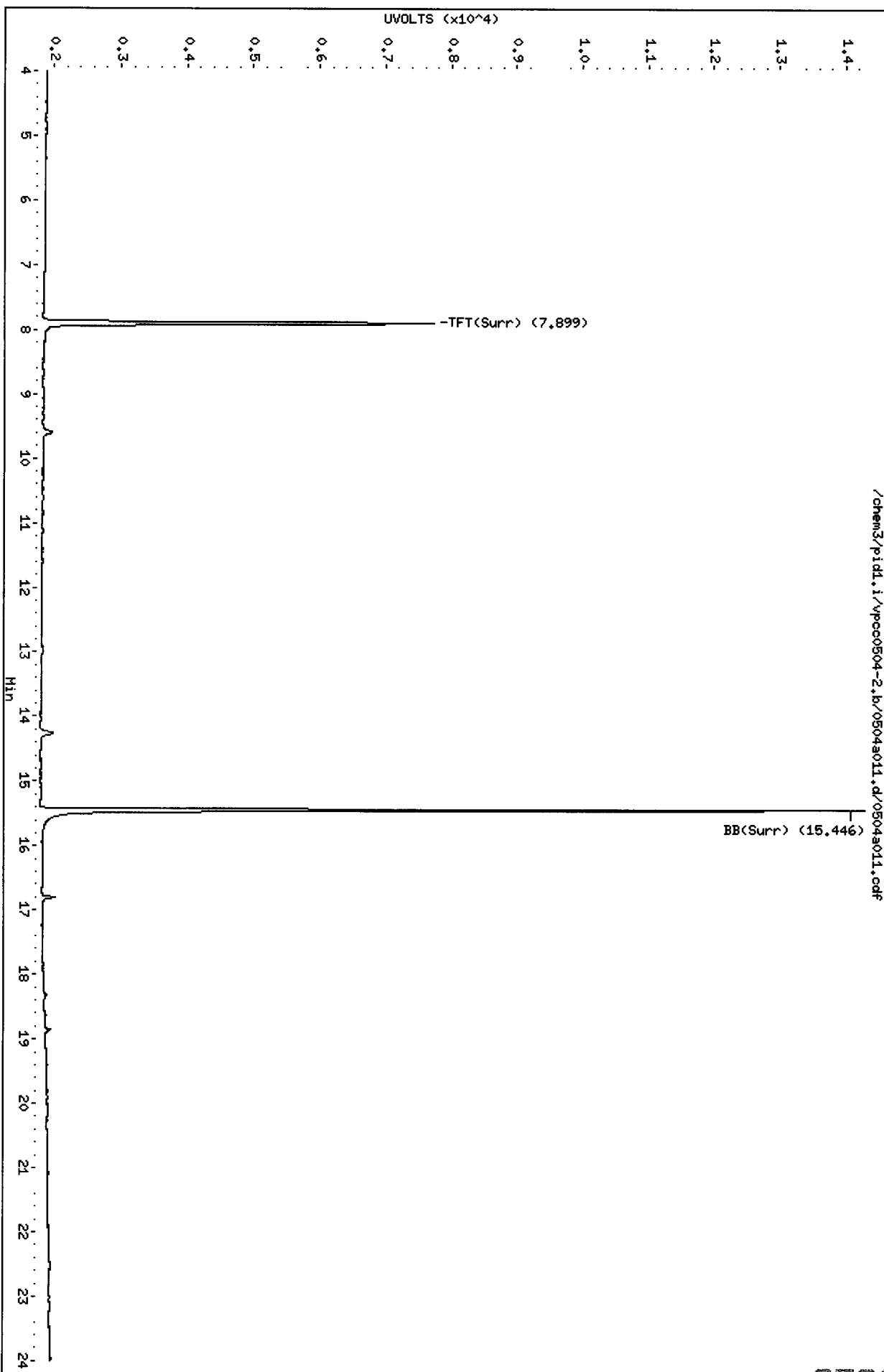
Column phase: RTX 502-2 PID

Page 1

Instrument: pidd.i

Operator: MH

Column diameter: 0.18



/chem3/pidd.i/vpcc0504-2.b/0504a011.d/0504a011.cdf

ST98: 01117

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0504-1.b/0504a012.d ARI ID: SU21F
Data file 2: /chem3/pid1.i/vpcc0504-2.b/0504a012.d Client ID: MW12-042711
Method: /chem3/pid1.i/vpcc0504-2.b/PIDB.m Injection Date: 04-MAY-2011 11:06
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	----	----	-----
7.902	0.001	2683	36460	94.8	TFT(Surr)
15.446	0.001	1961	16359	94.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (9.84 to 17.93)	374773	713	0.002
8015B 2MP-TMB (4.17 to 16.26)	747017	0	0.000
AK101 nC6-nC10 (4.67 to 15.16)	604063	0	0.000
NWTPHG Tol-Nap (9.84 to 18.94)	403422	1270	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
--	----	-----	----	-----
7.900	0.001	5859	90.0	TFT(Surr)
15.445	0.001	12524	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

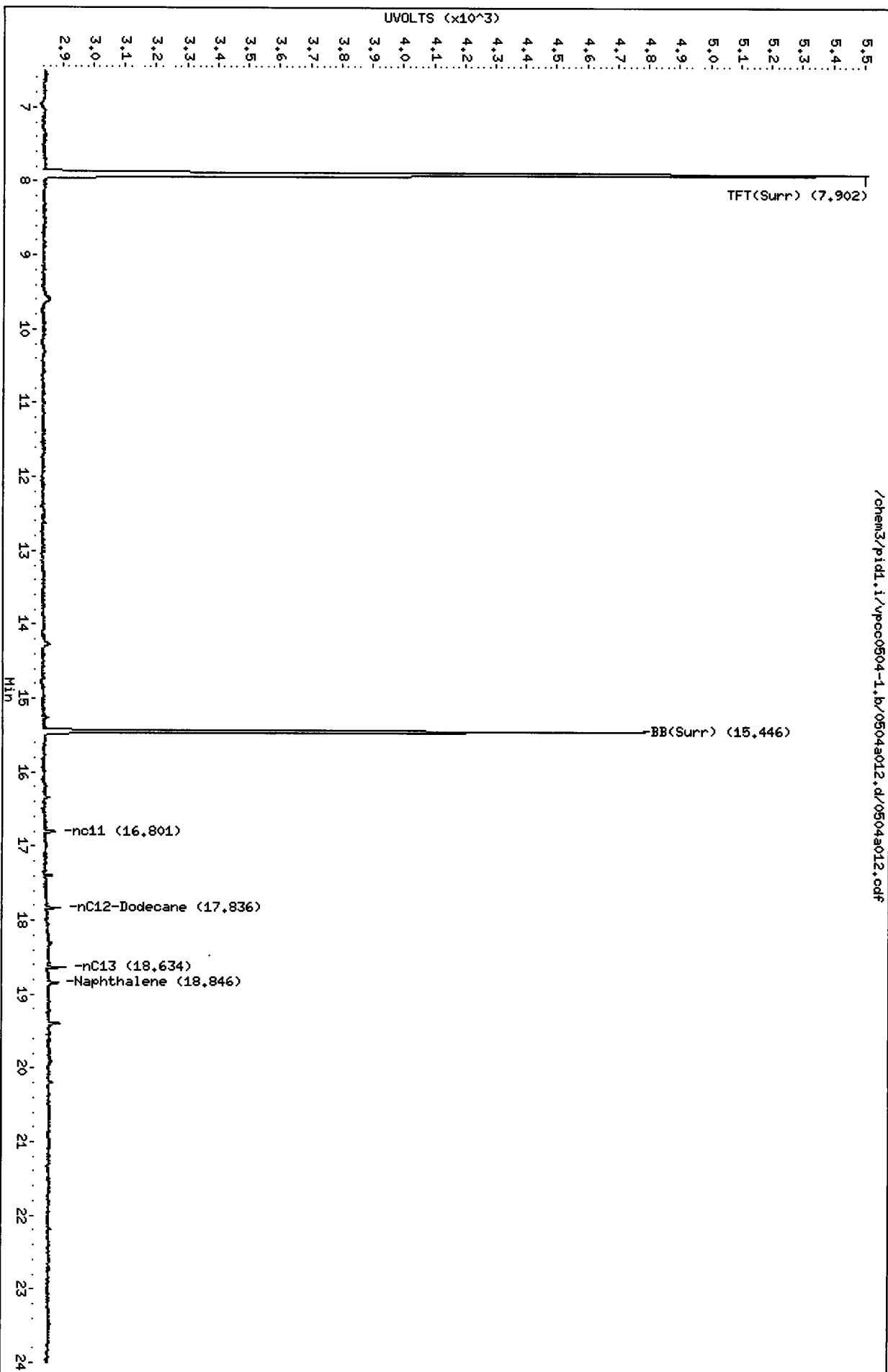
A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0504-1.b/0504a012.d
Date: 04-MAY-2011 11:06
Client ID: HM12-042711
Sample Info: SU21F

Column phase: RTX 502-2 FID

Instrument: pid1.i
Operator: HH
Column diameter: 0.18



/chem3/pid1.i/vpcc0504-1.b/0504a012.d/0504a012.cdf

Data File: /chem3/pid1.i/vpcc0504-2.b/0504a012.d

Date: 04-MAY-2011 11:06

Client ID: MM12-042711

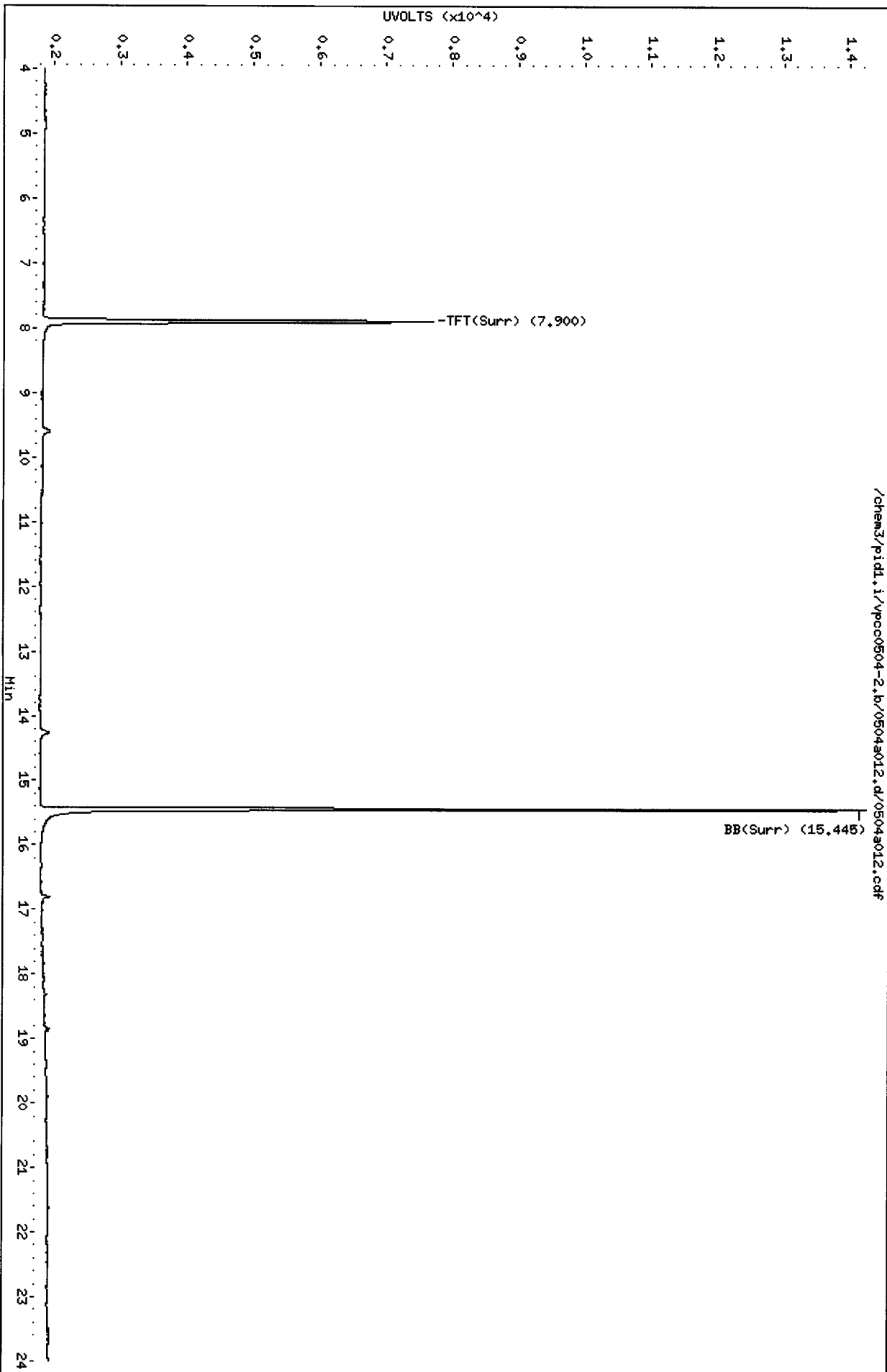
Sample Info: SU21F

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0504-1.b/0504a014.d ARI ID: BCAL 2
Data file 2: /chem3/pid1.i/vpcc0504-2.b/0504a014.d Client ID:
Method: /chem3/pid1.i/vpcc0504-2.b/PIDB.m Injection Date: 04-MAY-2011 12:05
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.903	0.002	2866	39040	101.3	TFT(Surr)
15.446	0.001	2059	17252	98.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.84 to 17.93)	374773	231866	0.619
8015B 2MP-TMB (4.17 to 16.26)	747017	228038	0.305
AK101 nC6-nC10 (4.67 to 15.16)	604063	213043	0.353
NWTPHG Tol-Nap (9.84 to 18.94)	403422	232531	0.576

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.901	0.002	6286	96.5	TFT(Surr)
15.446	0.001	13095	97.1	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.057	-0.003	9560	21.81	Benzene
9.944	0.002	8840	22.61	Toluene
12.847	0.002	7943	23.25	Ethylbenzene
13.009	0.002	17148	46.70	M/P-Xylene
13.966	0.002	6855	23.94	O-Xylene
4.534	0.000	3333	19.63	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0504-1.b/0504a014.d

Date: 04-May-2014 12:05

Client ID:

Sample Info: BCAL 2

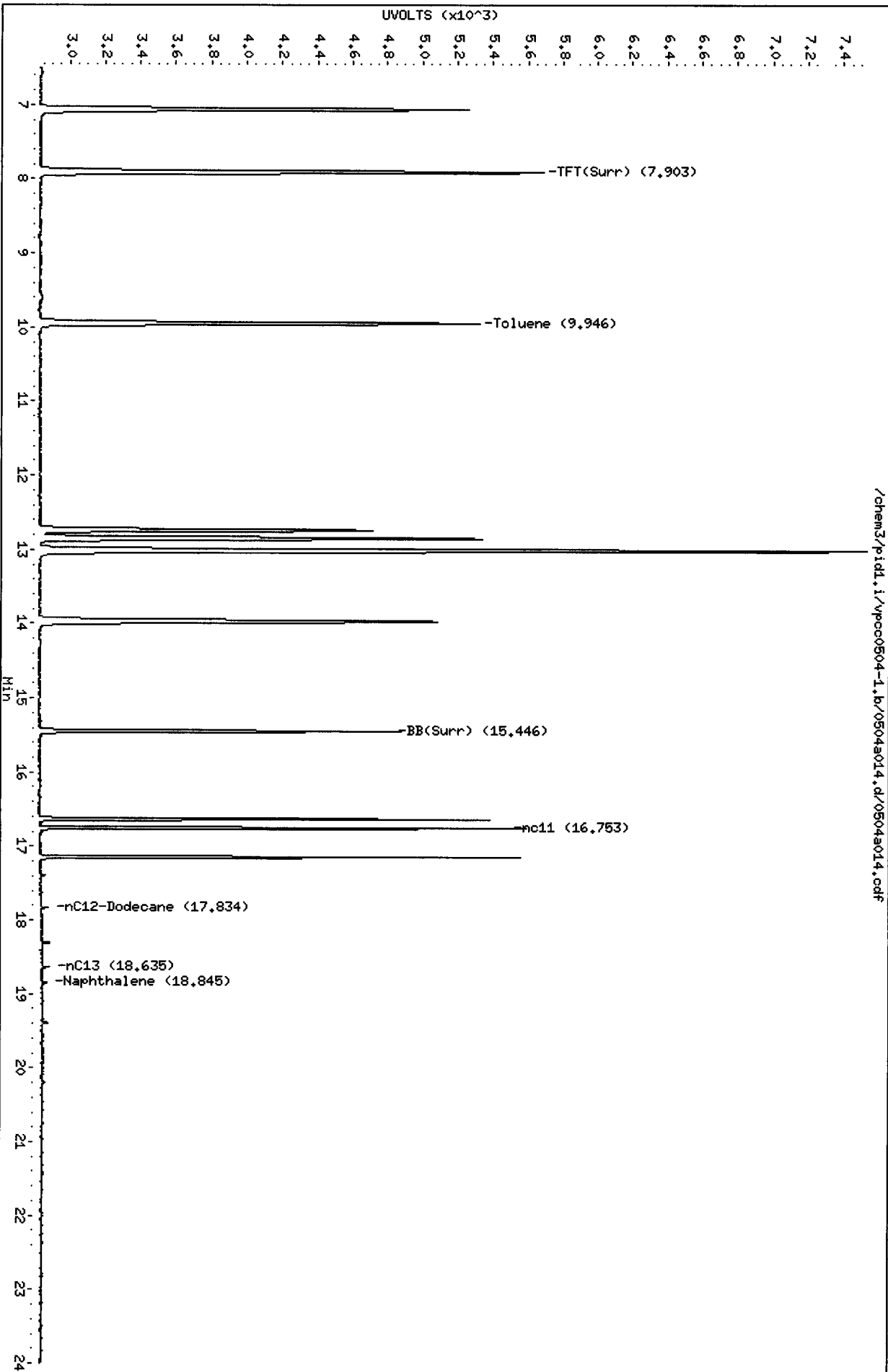
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

Page 1



ST98 : 01122

Data File: /chem3/pid1.i/vpcc0504-2.b/0504a014.d

Date: 04-MAY-2011 12:05

Client ID:

Sample Info: BCAL 2

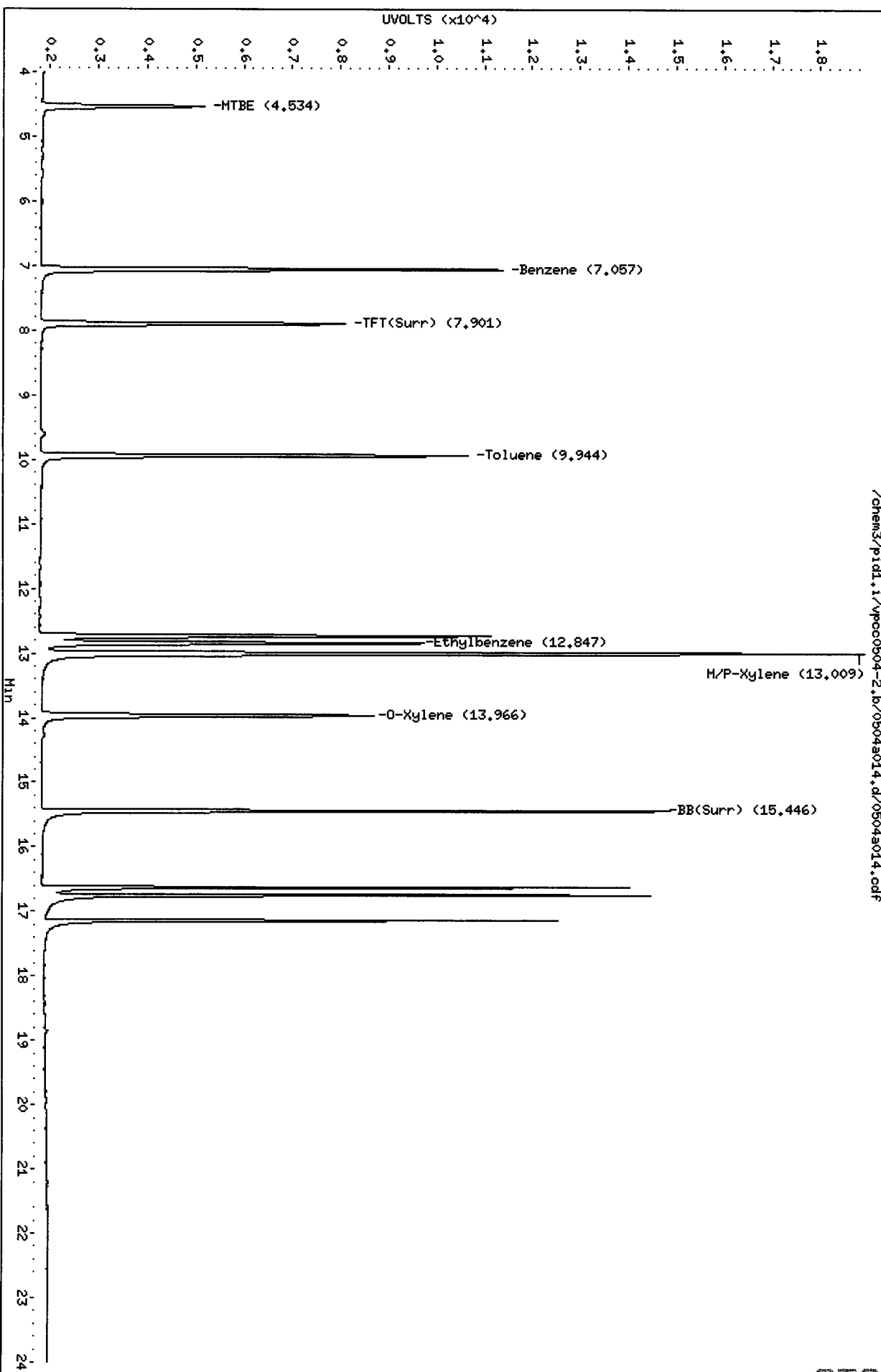
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

Page 1



ST98 : 01123

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0504-1.b/0504a015.d ARI ID: GCAL 2
Data file 2: /chem3/pid1.i/vpcc0504-2.b/0504a015.d Client ID:
Method: /chem3/pid1.i/vpcc0504-2.b/PIDB.m Injection Date: 04-MAY-2011 12:33
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 16-APRIL-2011 Dilution Factor: 1.000
BETX Ical Date: 16-APR-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.903	0.002	3068	54005	108.4	TFT(Surr)
15.446	0.001	2047	19246	98.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.84 to 17.93)	374773	879012	2.345 M
8015B 2MP-TMB (4.17 to 16.26)	747017	1829659	2.449 M
AK101 nC6-nC10 (4.67 to 15.16)	604063	1472108	2.437 M
NWTPHG Tol-Nap (9.84 to 18.94)	403422	929143	2.303 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.901	0.003	6397	98.2	TFT(Surr)
15.446	0.001	13140	97.5	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.062	0.003	3380	7.71	Benzene
9.946	0.004	34307	87.74	Toluene
12.847	0.002	8682	25.42	Ethylbenzene
13.012	0.006	34601	94.22	M/P-Xylene
13.966	0.002	12392	43.27	O-Xylene
4.537	0.003	726	4.28	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0504-1.b/0504s015.d

Date: 04-MAY-2011 12:33

Client ID:

Sample Info: GCAL 2

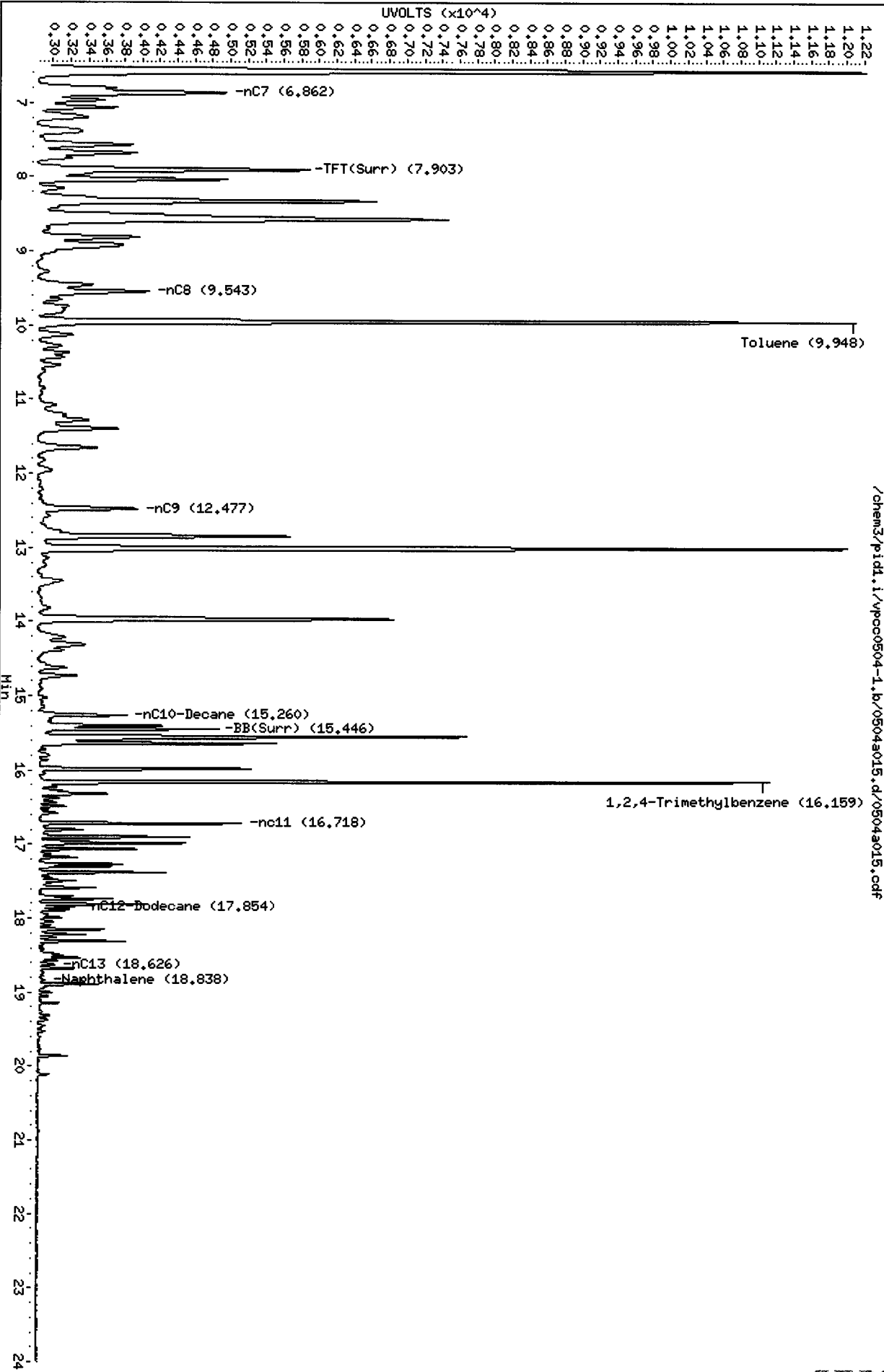
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

Page 1



Data File: /chem3/pid1.i/vpcc0504-2.b/0504a015.d

Date: 04-MAY-2011 12:33

Client ID:

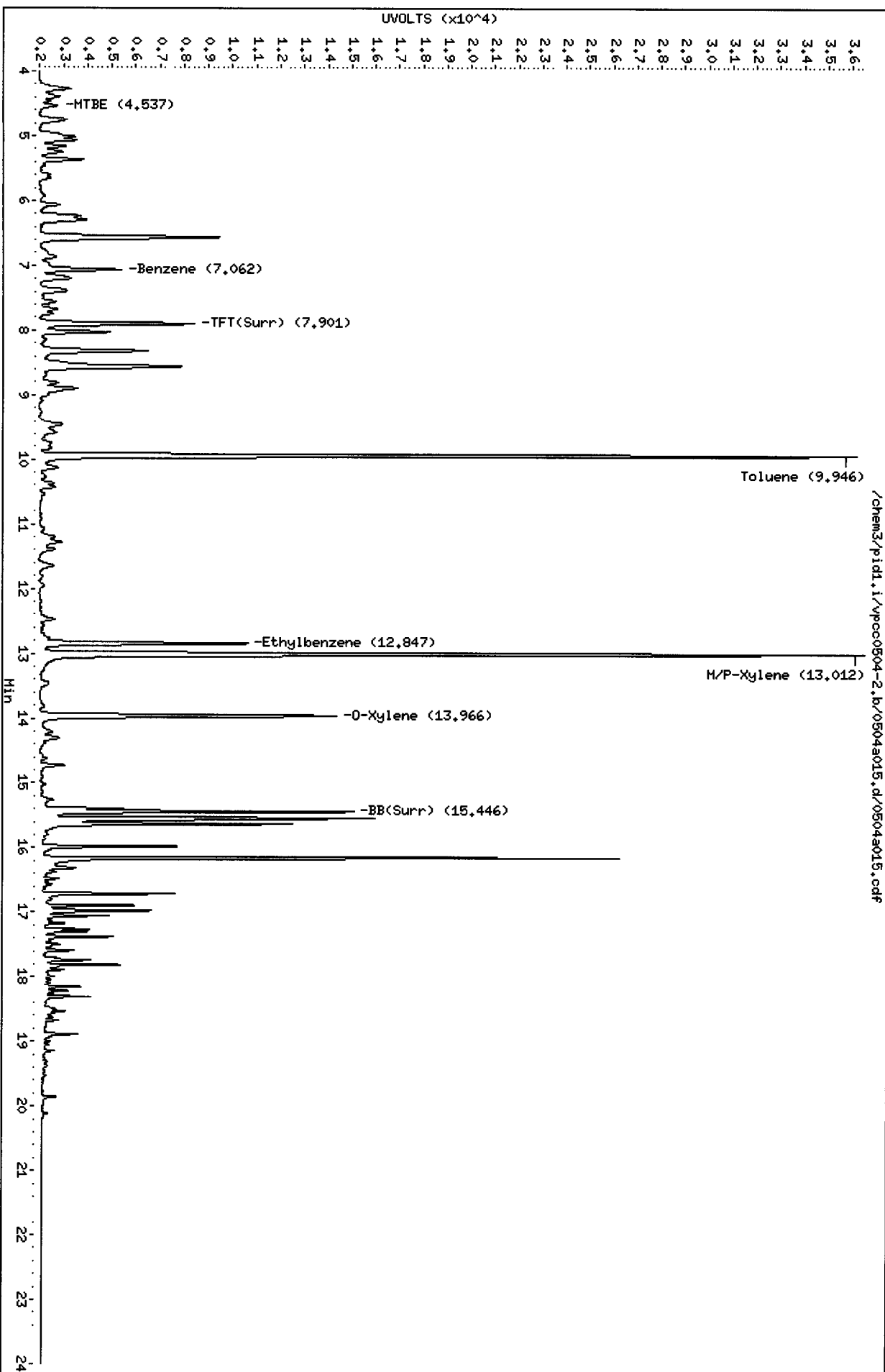
Sample Info: GCAL 2

Column phase: RTX 502-2 PID

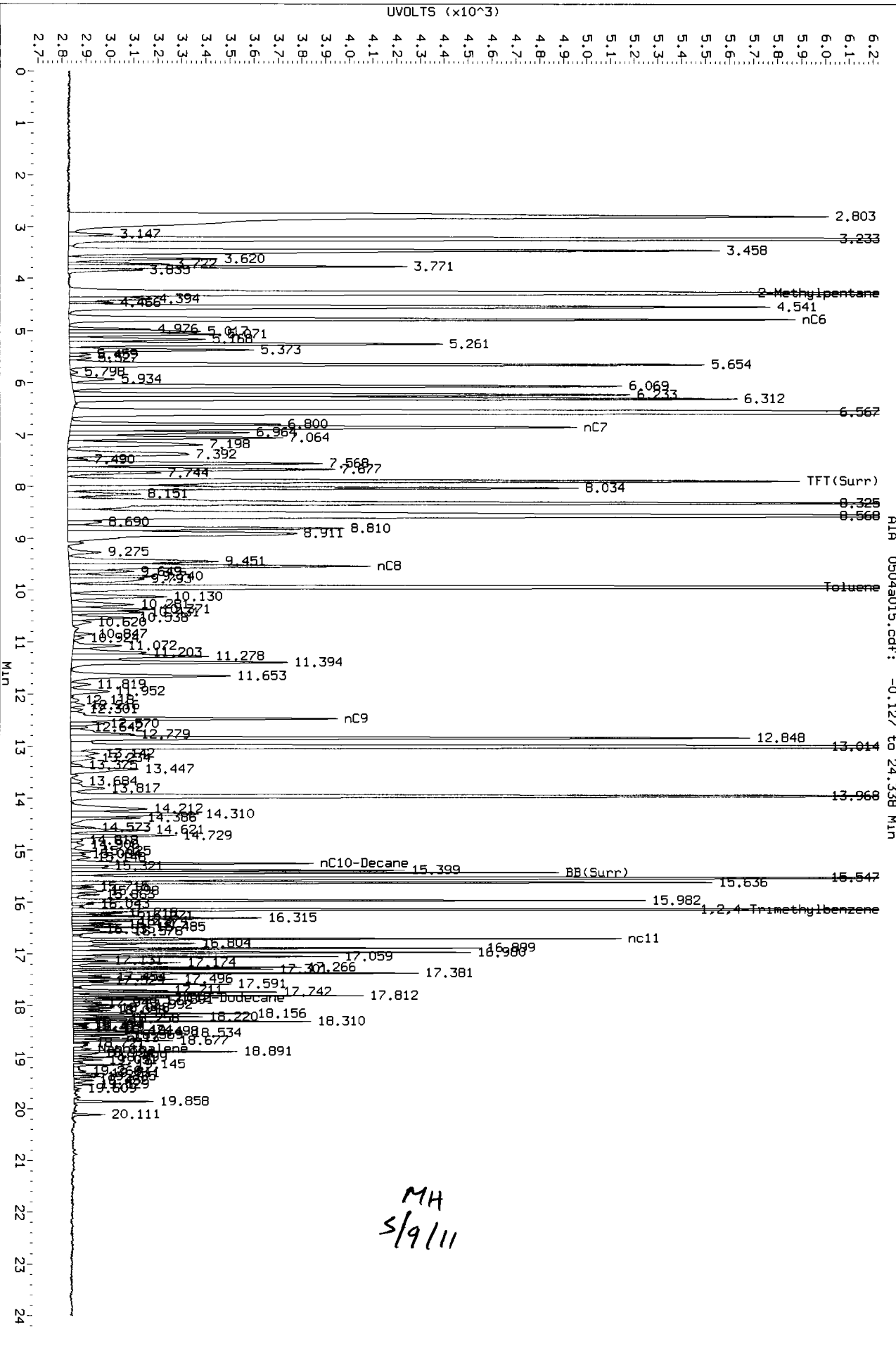
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

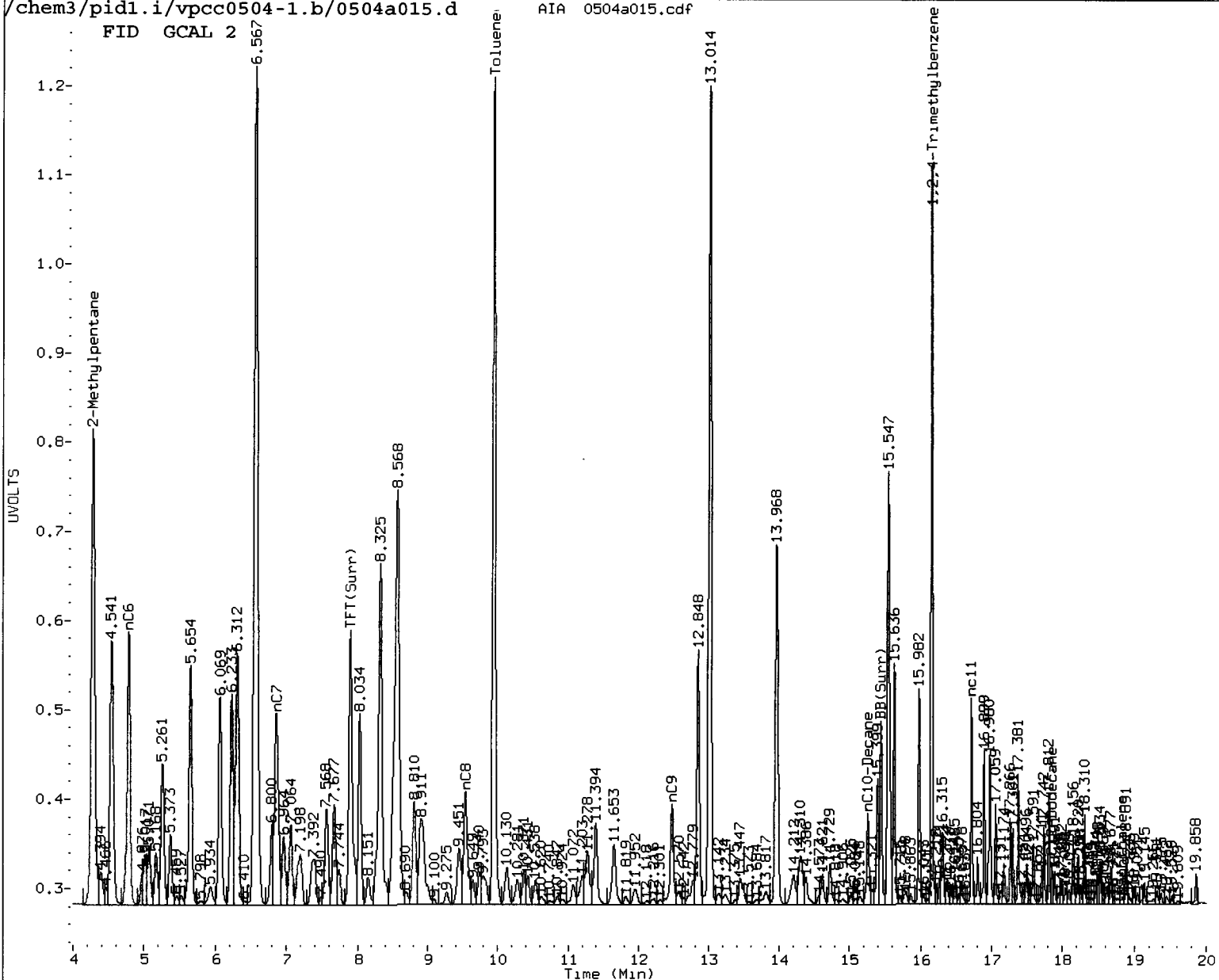


Data File: /chem3/p1d1.1/vpcc0504-1.b/0504a015.d/0504a015.cdf
 Injection Date: 04-MAY-2011 12:33
 Instrument: p1d1.1
 Client Sample ID:



AIA 0504a015.cdf: -0.127 to 24.338 MIN

FID GCAL 2



MANUAL INTEGRATION

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

Analyst: MH

Date: 5/9/11



VOA Analyst Notes / Corrective Action Log

ARI Project ID: ST98-SUS3-SU73-SU74 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: 5/5/11 Analysis Start Date: 5/6/11

pH ≤ 2.0 YES NO / NA Method Blank In Control? YES NO

BFB Tune Meets Criteria? YES / NO NA LCS / LCSD Recovery In Control? YES / NO

Internal Standard Meets Criteria? YES / NO NA Surrogate Recovery In Control? YES / NO

ICal acceptable? YES / NO CCal acceptable? YES / NO

Q flag applied? YES / NO NA Q flag applied? YES / NO NA

Manual Integrations for ICal? YES / NO Manual Integrations for Samples? Yes / NO

Special Analysis Criteria Met? YES / NO NA

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

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

Additional Details on Reverse: Yes / No

Analyst: [Signature] Date: 5/9/11

Reviewer: [Signature] Date: 5/9/11

Analytical Resources Inc.: Organics Instrument Log

PID-1 Serial No.: 2750A-17141

Date: 5/6/11

Analysis: NWTPHG/BETX

Analyst: MH

GC Program: BETX

Column No: 821726

Column Type: RTX502-Z

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

EM Voltage: _____

Calibration File: _____

Curve Date: 5/5/11

IS/SS

Ical/Ccal

LCS/ICV

VW683-2

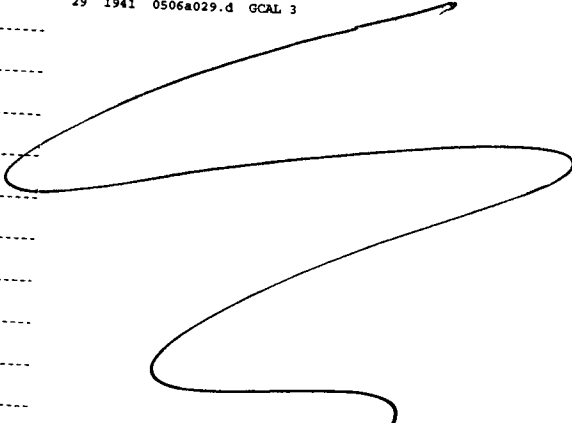
VW666-1

VW687-3

VW683-3

VW687-3

Time	Filename	LabID	ClientID	Vial#	pH	DP
1	0544 0506a001.d	RINSE				1
2	0613 0506a002.d	RT+BCAL 1				1
3	0642 0506a003.d	GCAL 1				1
4	0711 0506a004.d	LCS0506				1
5	0741 0506a005.d	LCSD0506				1
6	0810 0506a006.d	MB0506				1
7	0901 0506a007.d	ST98A	MW02-042611			1
8	0930 0506a008.d	ST98B	MW03-042611			1
9	0959 0506a009.d	ST98C	MW13-042611			1
10	1028 0506a010.d	ST98D	MW06-042611			1
11	1057 0506a011.d	ST98DMS	MW06-042611 MS			1
12	1126 0506a012.d	ST98DMSD	MW06-042611 MSD			1
13	1155 0506a013.d	SU53A	MW5042811			1
14	1224 0506a014.d	RINSE				1
15	1253 0506a015.d	BCAL 2				1
16	1322 0506a016.d	GCAL 2				1
17	1351 0506a017.d	SU53B	MW15042811			1
18	1420 0506a018.d	SU53C	MW4042811			1
19	1449 0506a019.d	SU53D	MW17042811			1
20	1518 0506a020.d	SU53E	MW14042811			1
21	1547 0506a021.d	SU53F	MW16042811			1
22	1616 0506a022.d	SU73A	MW-01-042911			1
23	1645 0506a023.d	SU73B	MW-01-042911-D			1
24	1715 0506a024.d	SU74A	B312-042911			1
25	1744 0506a025.d	SU74B	B310-042911			1
26	1813 0506a026.d	SU74C	B311-042911			1
27	1842 0506a027.d	RINSE				1
28	1911 0506a028.d	BCAL 3				1
29	1941 0506a029.d	GCAL 3				1



MH
5/9/11

Maintenance / Comments

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

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

114
5/6/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a002.d ARI ID: RT+BCAL 1
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a002.d Client ID:
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m Injection Date: 06-MAY-2011 06:13
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	----	-----	----	----	-----
7.906	0.000	2577	35118	98.7	TFT(Surr)
15.450	0.000	1893	15639	100.3	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.94)	319505	427454	1.338
8015B 2MP-TMB (4.17 to 16.26)	652210	480142	0.736
AK101 nC6-nC10 (4.68 to 15.16)	527526	341926	0.648
NWTPHG Tol-Nap (9.85 to 18.95)	340084	478734	1.408

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
7.904	0.000	5480	97.9	TFT(Surr)
15.449	0.000	11768	99.0	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.063	0.000	8561	23.00	Benzene
9.948	0.000	8045	23.66	Toluene
12.851	0.000	7245	24.92	Ethylbenzene
13.013	0.000	15581	48.31	M/P-Xylene
13.971	0.000	6239	24.73	O-Xylene
4.539	0.000	2668	23.14	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a002.d

Date: 06-MAY-2011 06:13

Client ID:

Sample Info: RT+BCRL 1

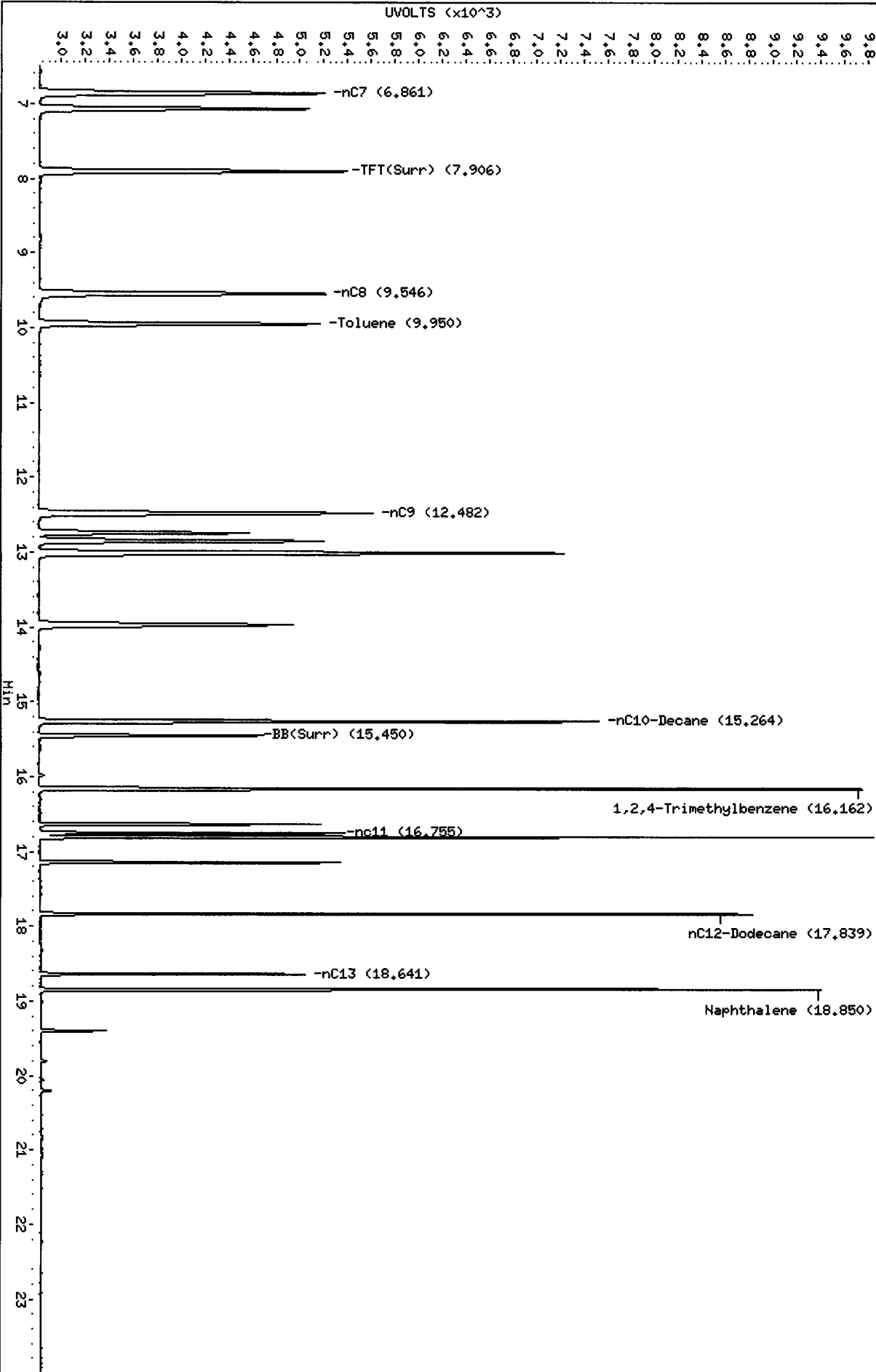
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

/chem3/pid1.i/vpcc0506-1.b/0506a002.d/0506a002.cdf



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a002.d

Date: 06-MAY-2011 06:13

Client ID:

Sample Info: RT+BCAL 1

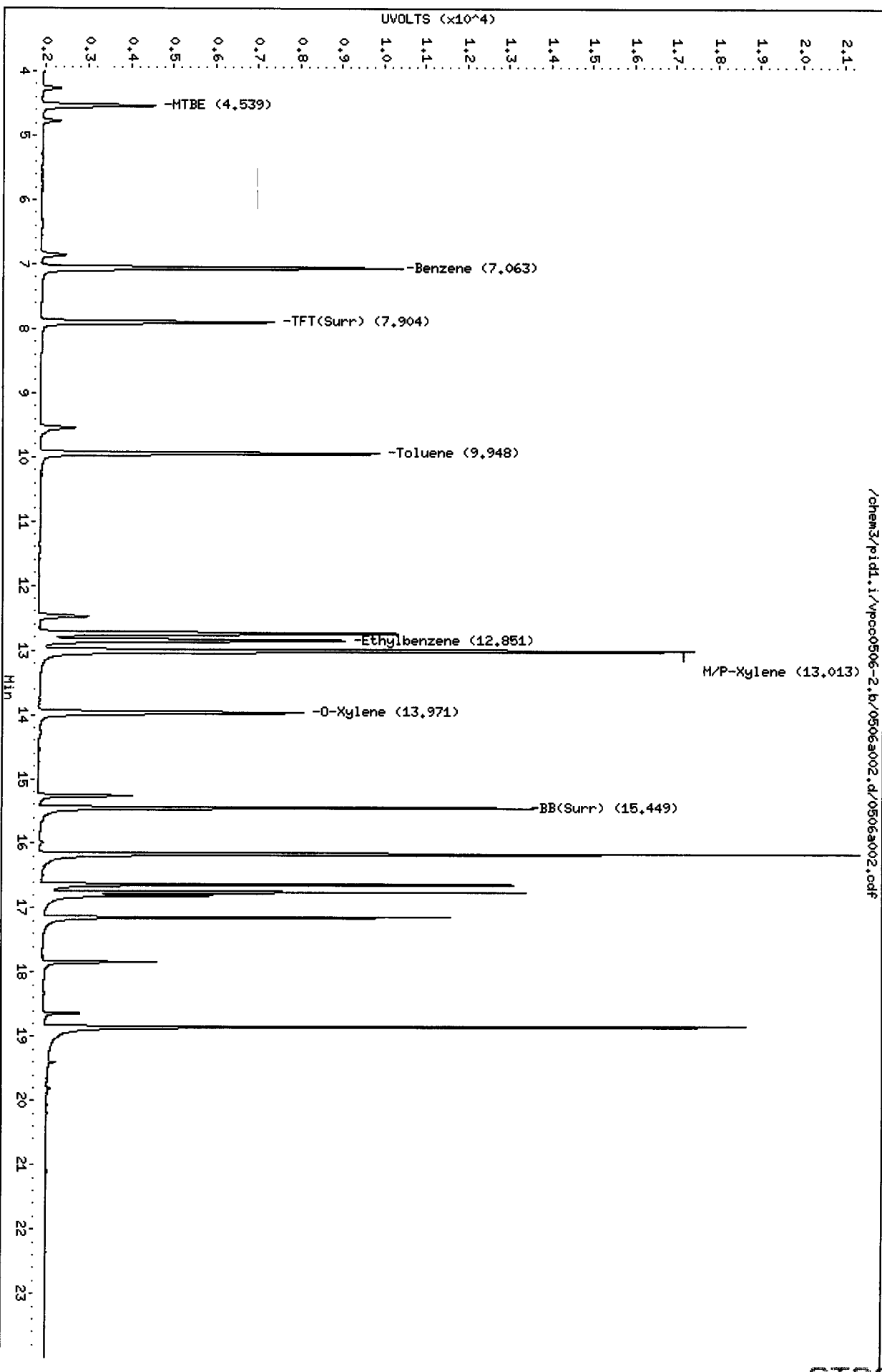
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

Page 1



/chem3/pid1.i/vpcc0506-2.b/0506a002.d/0506a002.cdf

ST98 : 01130

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a003.d ARI ID: GCAL 1
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a003.d Client ID:
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m Injection Date: 06-MAY-2011 06:42
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.906	0.000	2859	49638	109.5	TFT(Surr)
15.449	-0.001	1906	17630	101.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.94)	319505	834602	2.612 M
8015B 2MP-TMB (4.17 to 16.26)	652210	1687232	2.587 M
AK101 nC6-nC10 (4.68 to 15.16)	527526	1354554	2.568 M
NWTPHG Tol-Nap (9.85 to 18.95)	340084	885484	2.604 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.905	0.000	5784	103.3	TFT(Surr)
15.449	-0.001	11868	99.8	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.067	0.003	3015	8.10	Benzene
9.949	0.001	30793	90.56	Toluene
12.851	0.000	7880	27.11	Ethylbenzene
13.016	0.003	31565	97.88	M/P-Xylene
13.971	0.000	11257	44.62	O-Xylene
4.541	0.002	619	5.37	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a003.d

Date: 06-MAY-2011 06:42

Client ID:

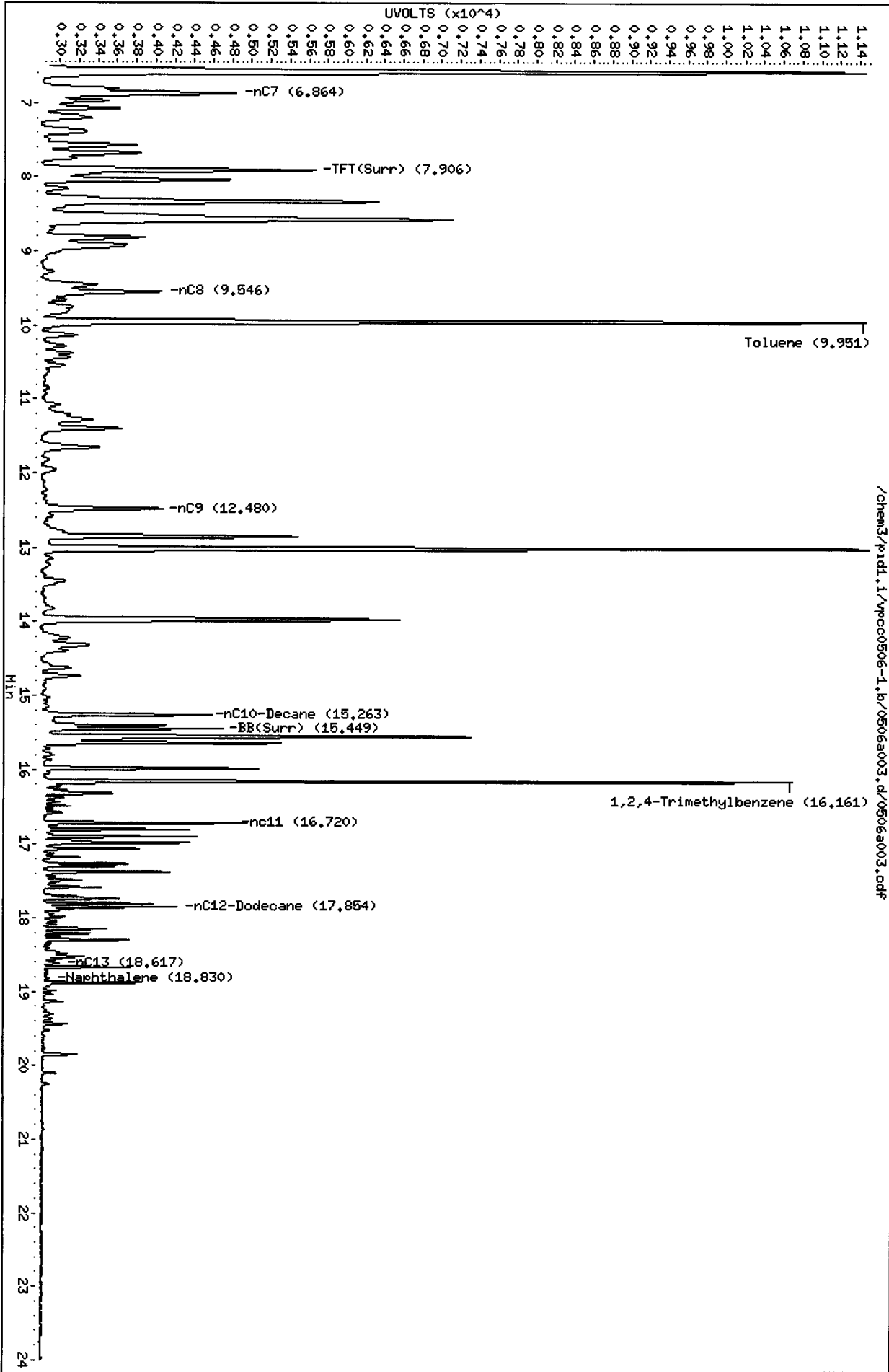
Sample Info: GCAL 1

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0506-2.l/0506a003.d
Date: 06-MAY-2011 06:42

Client ID:

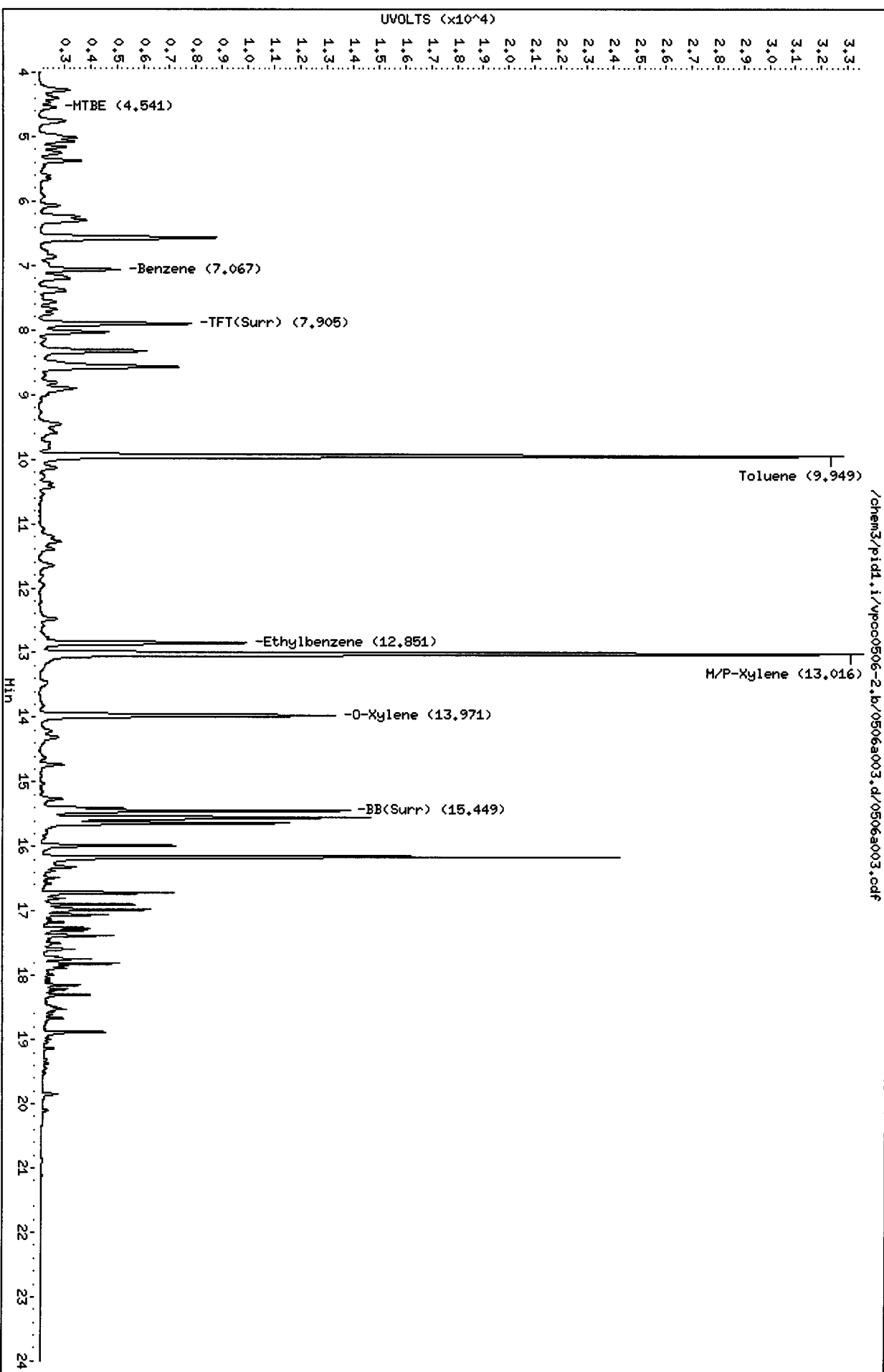
Sample Info: GCAL 1

Column Phase: RTX 502-2 PID

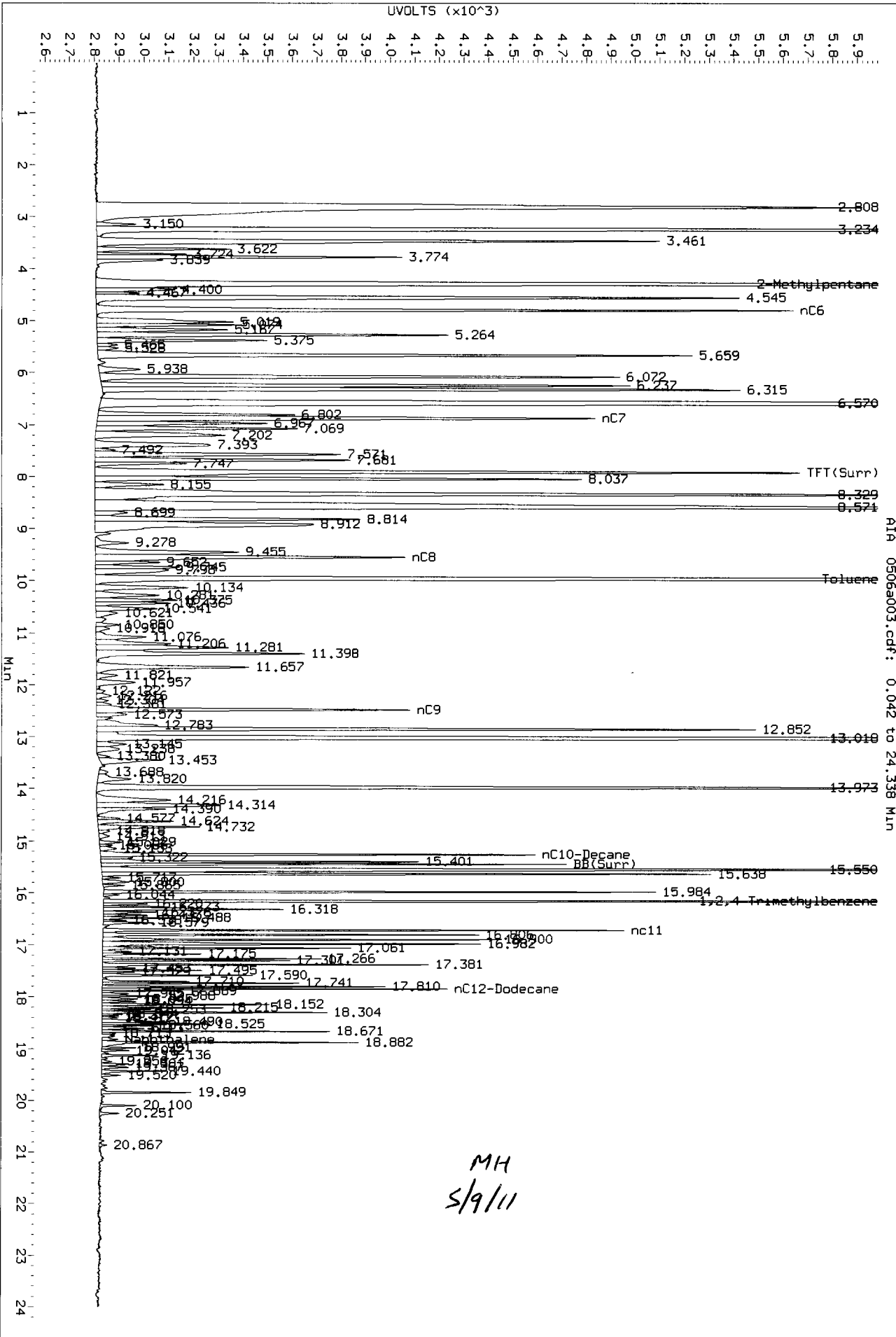
Instrument: pid1.i

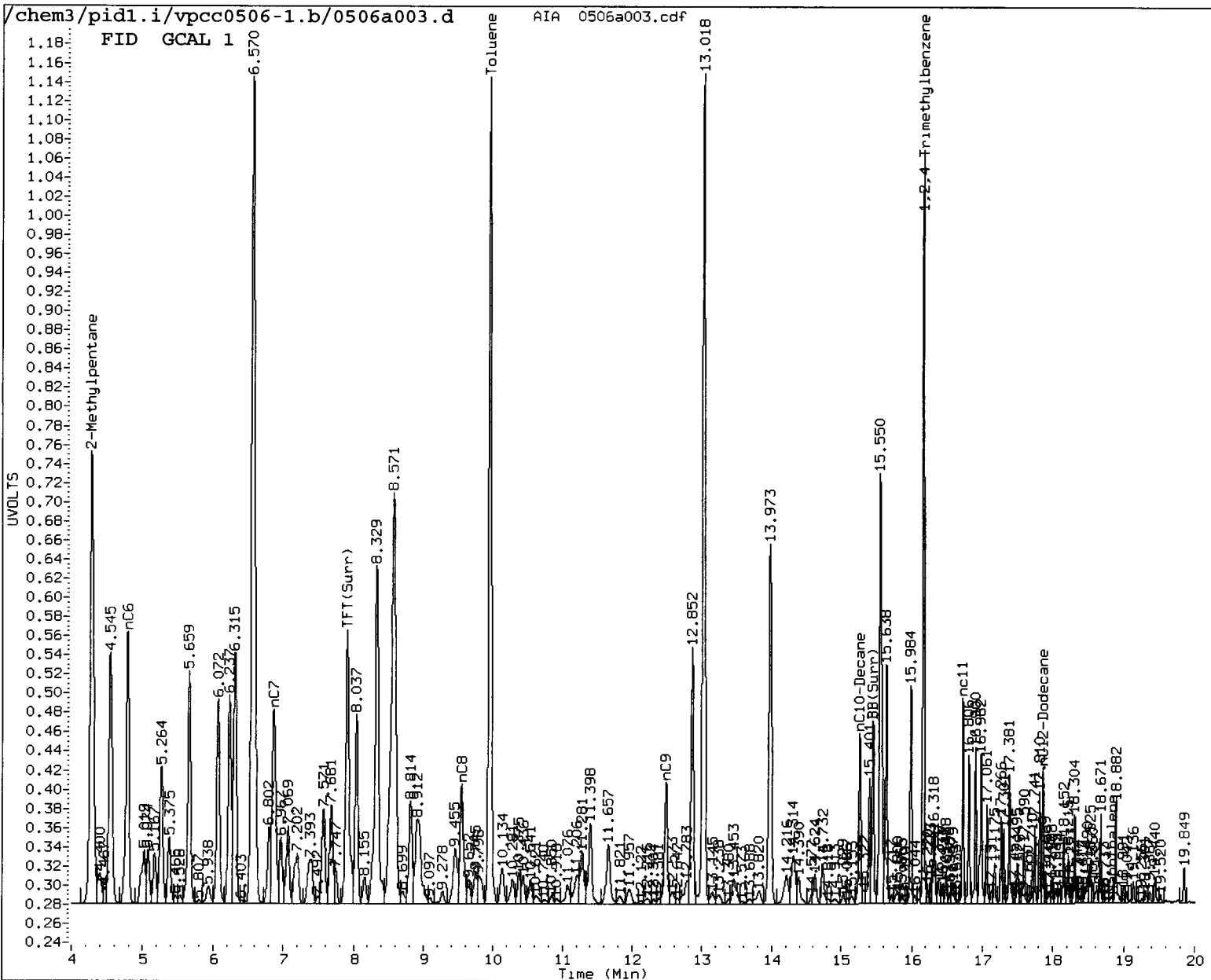
Operator: MH

Column diameter: 0.18



Data File: /chem3/pid1.1/vpcc0506-1.b/0506a003.d/0506a003.cdf
 Injection Date: 06-MAY-2011 06:42
 Instrument: pid1.1
 Client Sample ID:





MANUAL INTEGRATION

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

5. Other _____

Analyst: MH

Date: 5/9/11

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a004.d ARI ID: LCS0506
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a004.d Client ID:
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m Injection Date: 06-MAY-2011 07:11
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.907	0.000	2557	39190	98.0	TFT(Surr)
15.450	0.000	1810	16111	95.9	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.94)	319505	339244	1.062 M
8015B 2MP-TMB (4.17 to 16.26)	652210	677626	1.039 M
AK101 nC6-nC10 (4.68 to 15.16)	527526	544860	1.033 M
NWTPHG Tol-Nap (9.85 to 18.95)	340084	361886	1.064 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.905	0.001	5298	94.6	TFT(Surr)
15.449	0.000	11284	94.9	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.064	0.001	1199	3.22	Benzene
9.948	0.000	11971	35.21	Toluene
12.851	0.000	3030	10.42	Ethylbenzene
13.015	0.002	11964	37.10	M/P-Xylene
13.971	0.000	4279	16.96	O-Xylene
4.530	-0.008	252	2.19	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

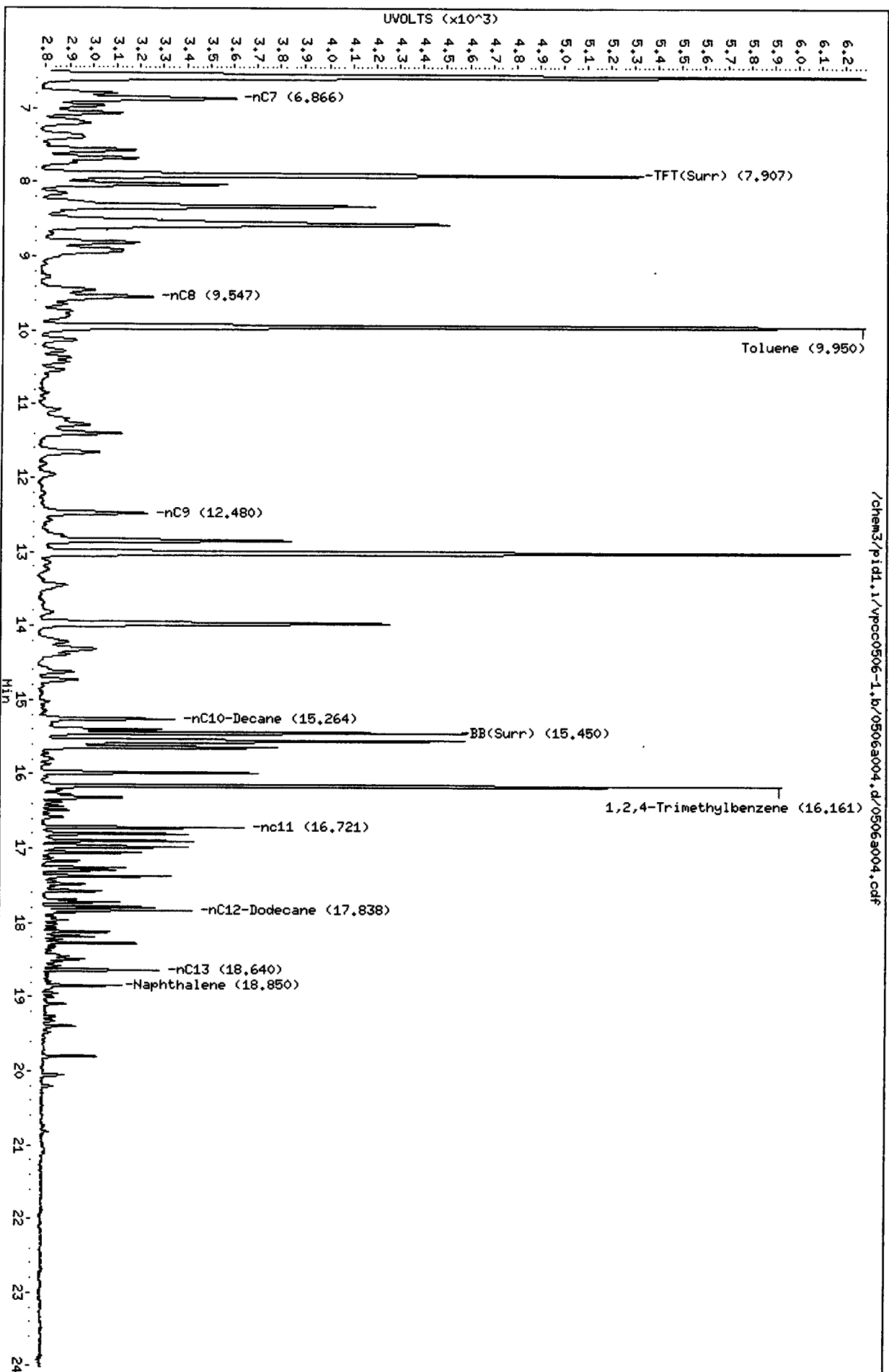
Data File: /chem3/pid1.i/vpcc0506-1.b/0506a004.d
Date: 06-MAY-2011 07:11
Client ID:
Sample Info: LCS0506

Instrument: pid1.i

Page 1

Column phase: RTX 502-2 FID

Operator: HH
Column diameter: 0.18



ST98: 01140

Data File: /chem3/pid1.i/vpcc0506-2.l/0506a004.d

Date: 06-MAY-2011 07:11

Client ID:

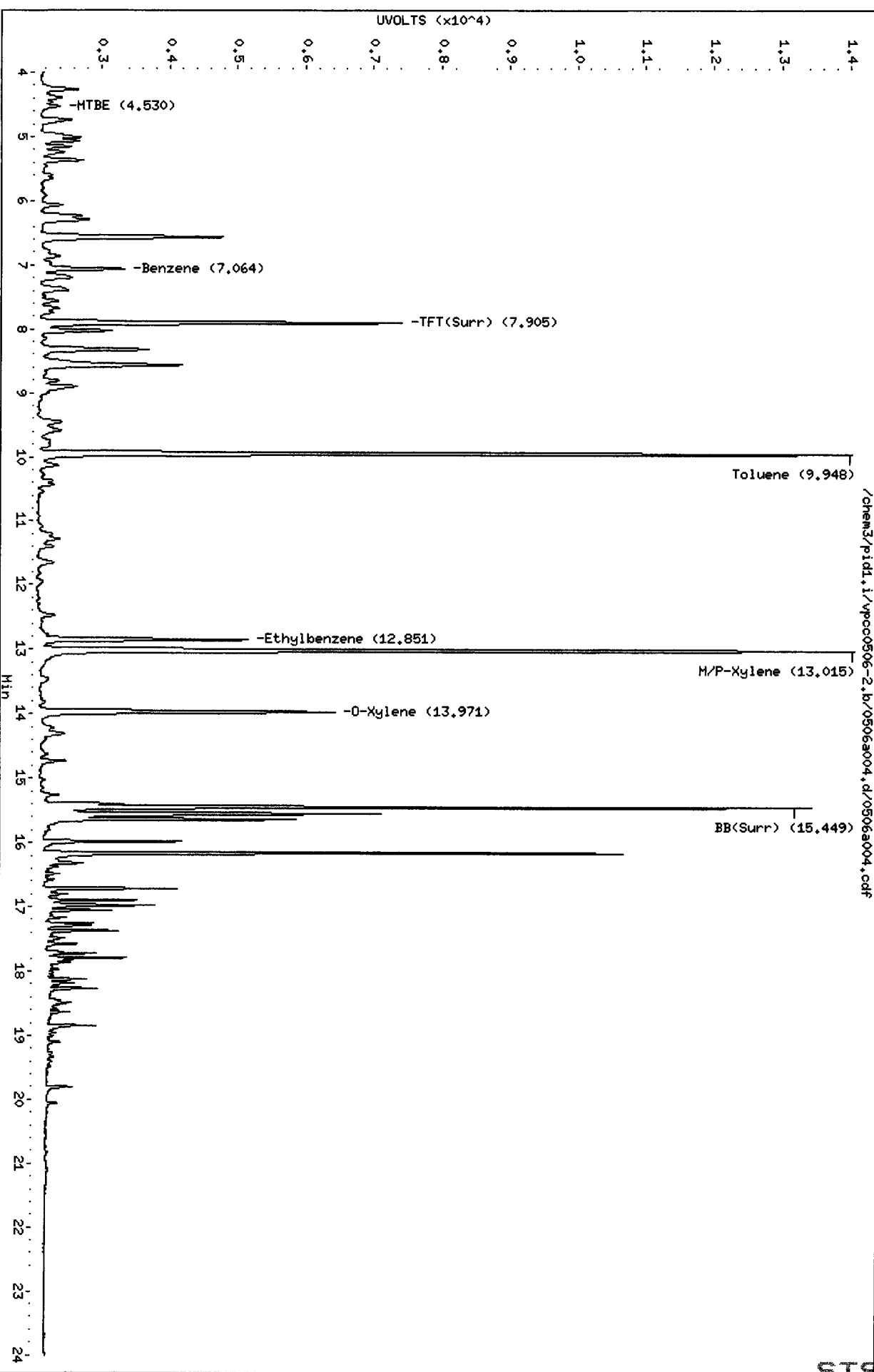
Sample Info: LCS0506

Column phase: RTX 502-2 PID

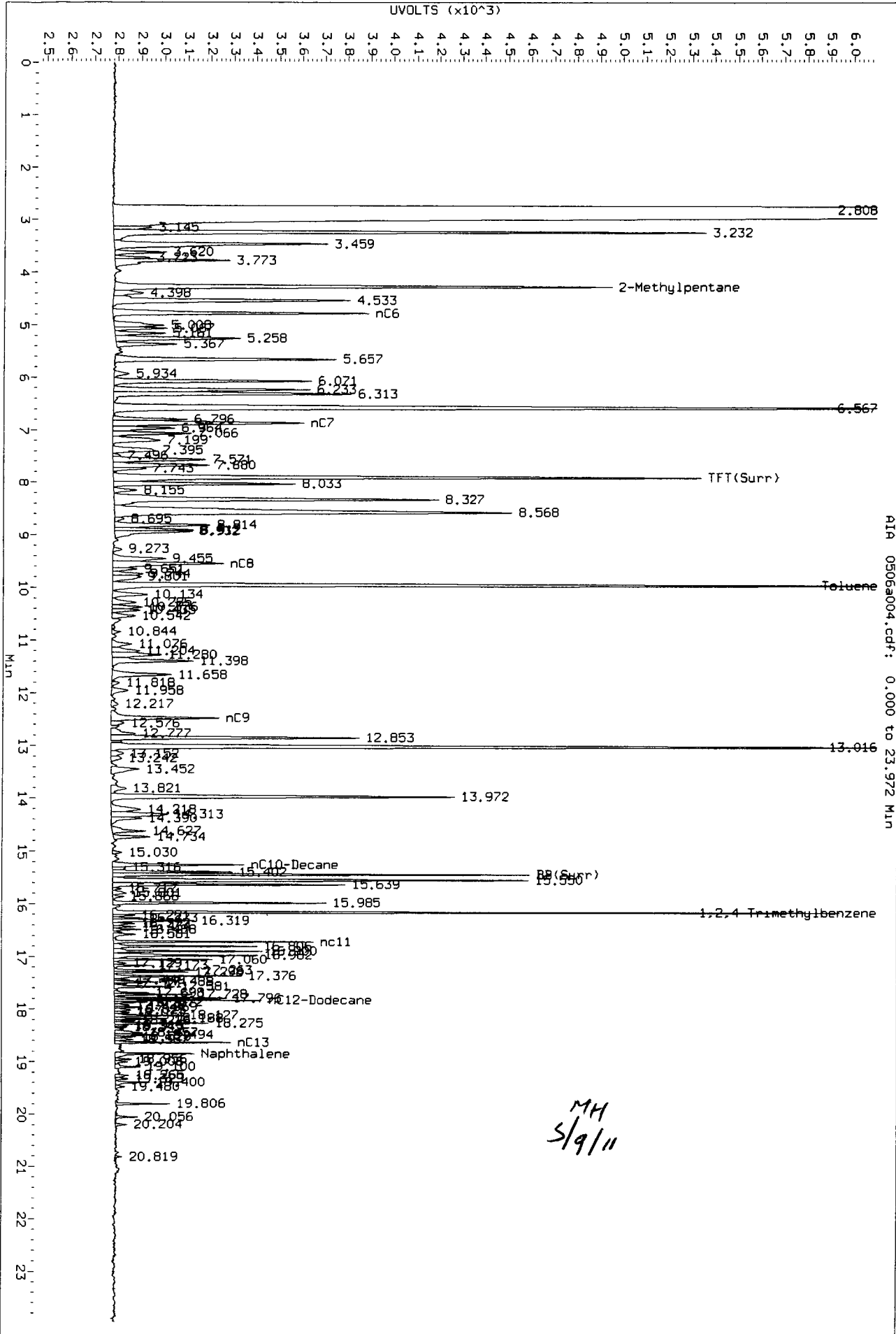
Instrument: pid1.i

Operator: MH

Column diameter: 0.18



Data File: /chem3/pud1.1/vpcc0506-1.b/0506a004.d/0506a004.cdf
Injection Date: 06-MAY-2011 07:11
Instrument: pud1.1
Client Sample ID:



MH
5/9/11

AIR 0506a004.cdf: 0.000 to 23.972 MIN

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a005.d ARI ID: LCSD0506
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a005.d Client ID:
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m Injection Date: 06-MAY-2011 07:41
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	----	----	-----
7.908	0.002	2587	39532	99.1	TFT(Surr)
15.451	0.001	1834	15953	97.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.94)	319505	313487	0.981 M
8015B 2MP-TMB (4.17 to 16.26)	652210	645648	0.990 M
AK101 nC6-nC10 (4.68 to 15.16)	527526	522016	0.990 M
NWTPHG Tol-Nap (9.85 to 18.95)	340084	334184	0.983 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	----	-----
7.906	0.002	5365	95.8	TFT(Surr)
15.450	0.001	11390	95.8	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	----	-----
7.065	0.001	1138	3.06	Benzene
9.949	0.001	11424	33.60	Toluene
12.852	0.001	2905	9.99	Ethylbenzene
13.016	0.003	11479	35.59	M/P-Xylene
13.972	0.001	4132	16.38	O-Xylene
4.530	-0.009	237	2.06	MTBE

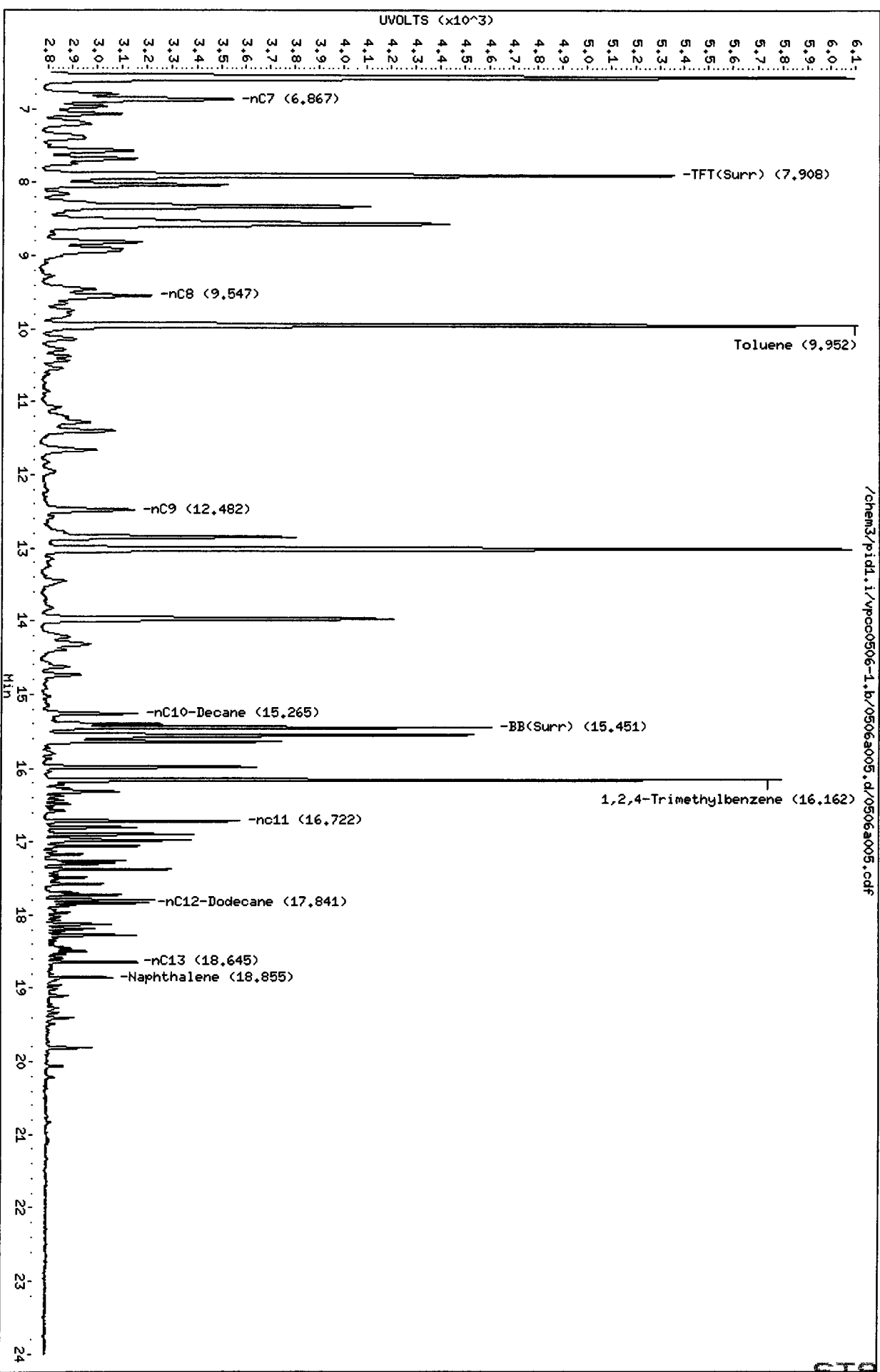
A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a005.d
Date : 06-MAY-2011 07:41
Client ID:
Sample Info: LCSD0506

Column phase: RTX 502-2 FID

Instrument: pid1.i
Operator: MH
Column diameter: 0.18



/chem3/pid1.i/vpcc0506-1.b/0506a005.d/0506a005.cdf

Data File: /chem3/pid1.i/vpcc0506-2.b/0506a005.d

Date: 06-MAY-2011 07:41

Client ID:

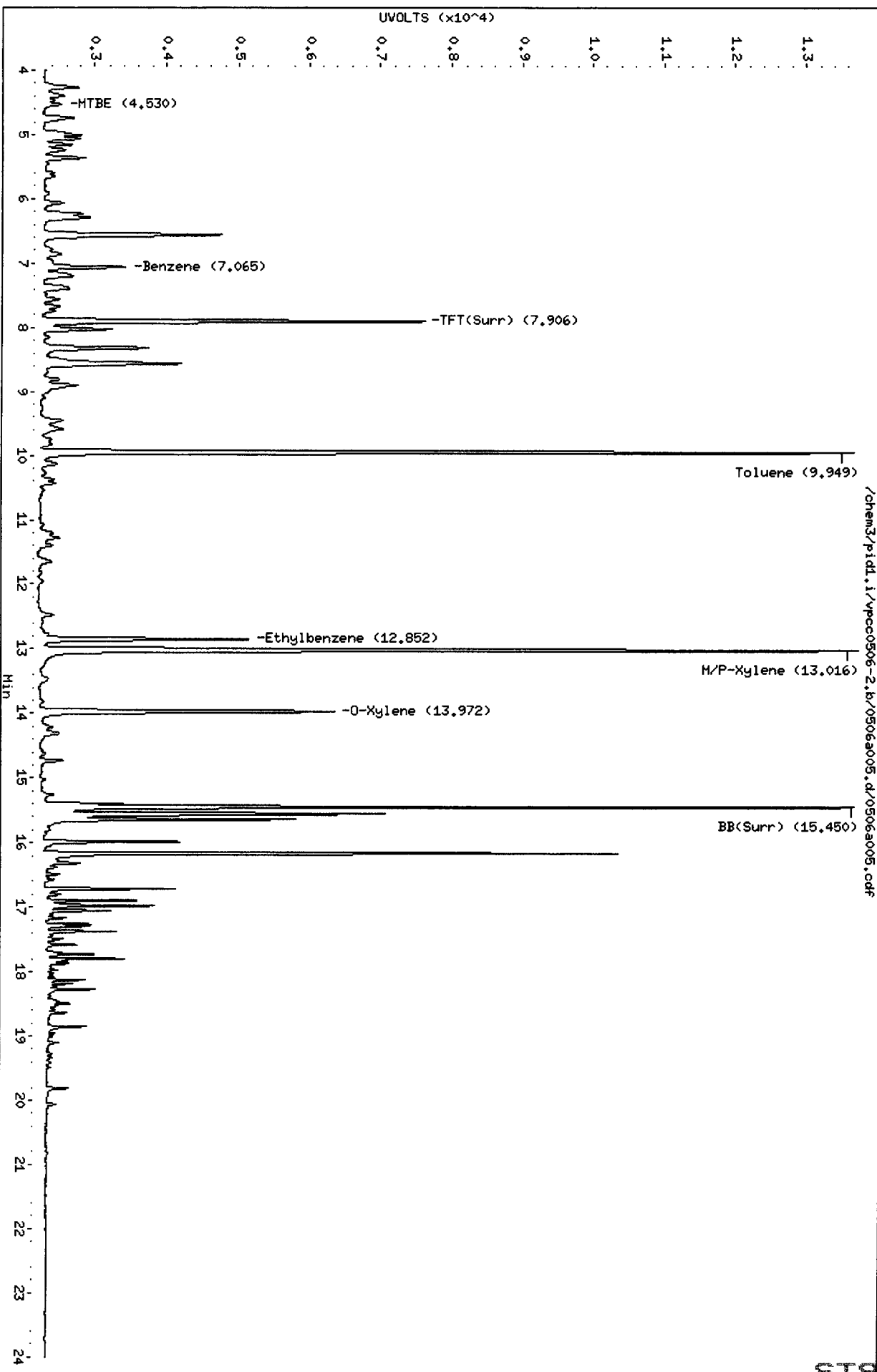
Sample Info: LCSD0506

Instrument: pid1.i

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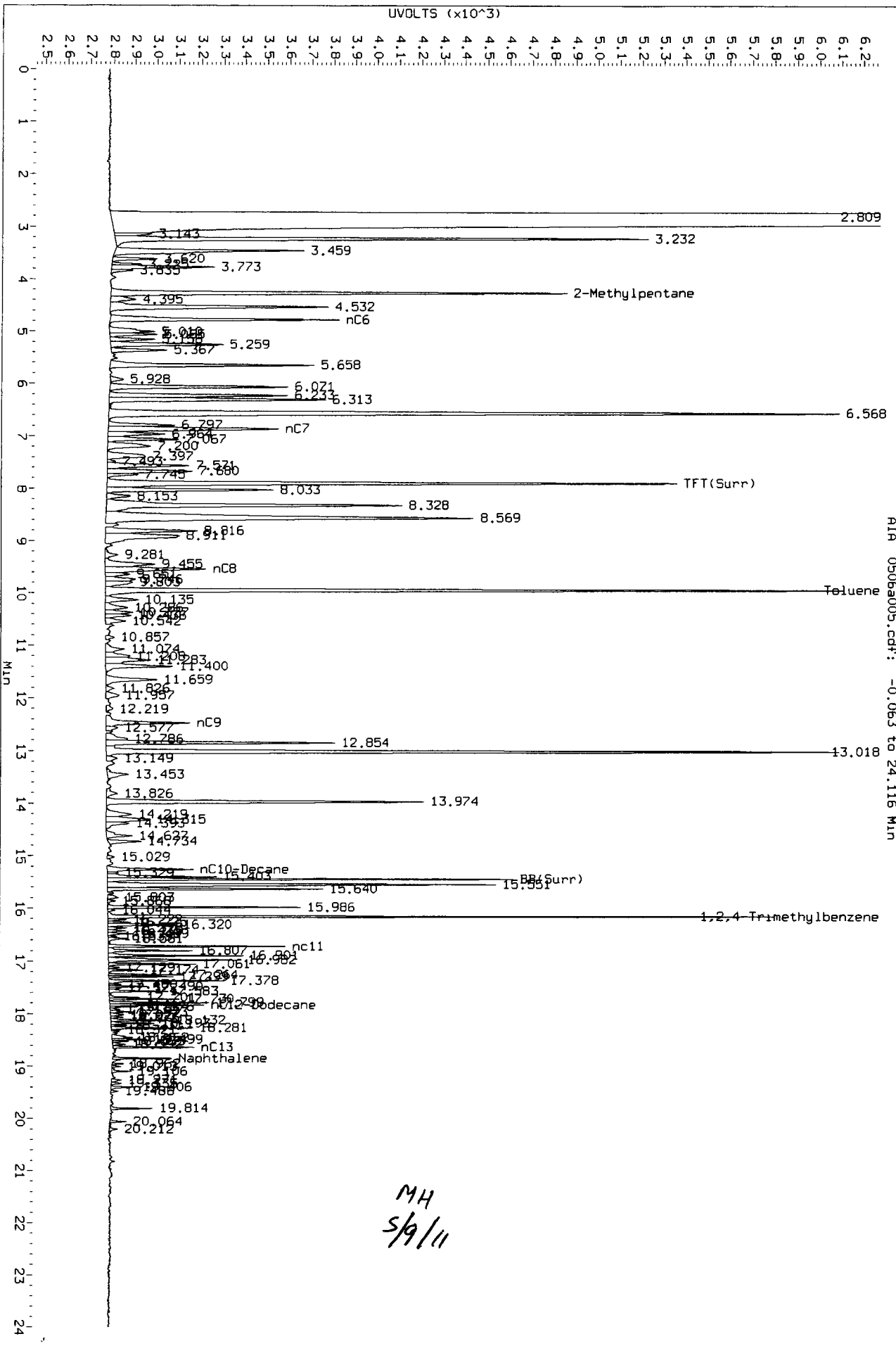
Column phase: RTX 502-2 PID

Operator: HH
Column diameter: 0.18



ST98: 01146

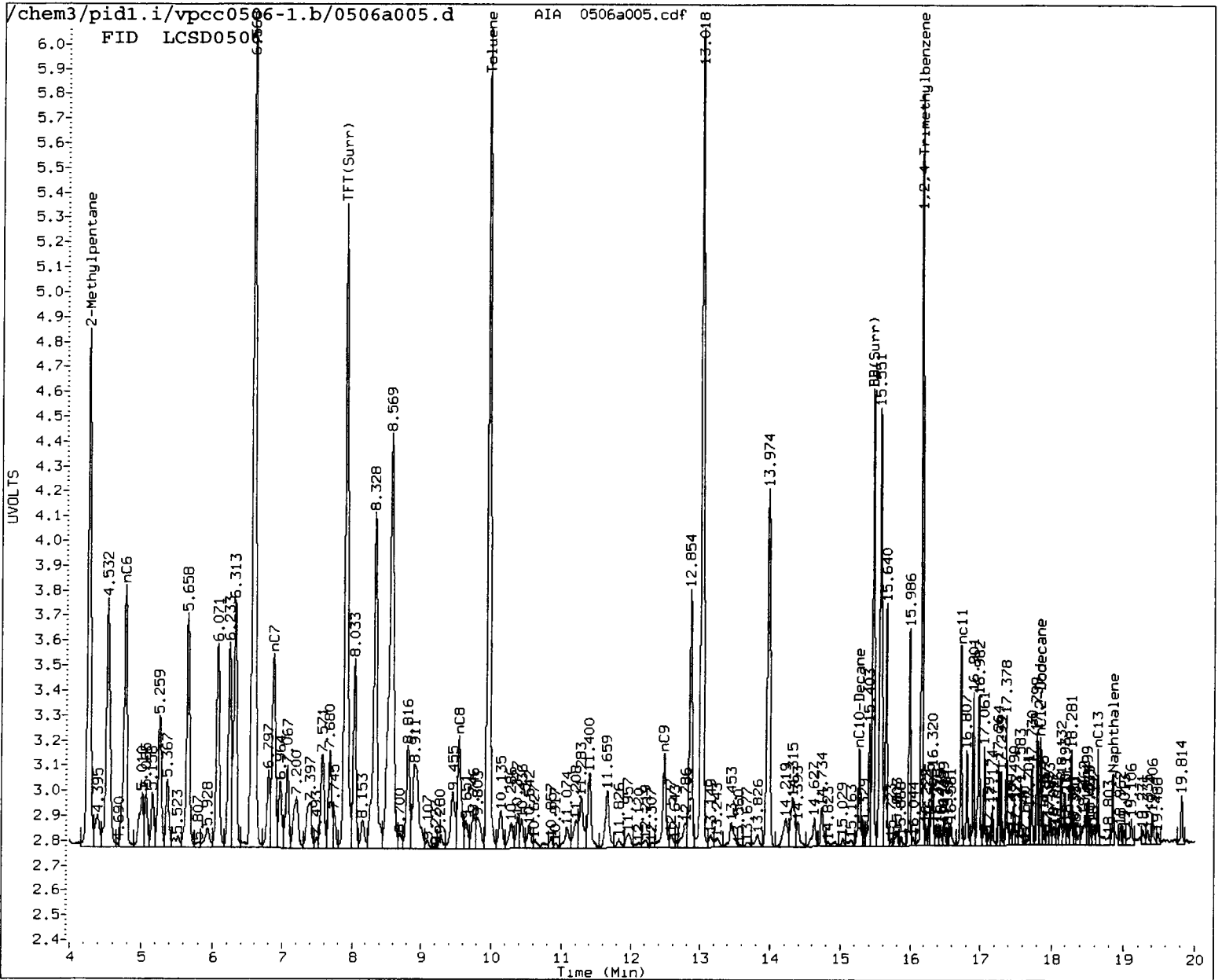
Data File: /chem3/pud1.1/vpcc0506-1.b/0506a005.d/0506a005.cdf
Injection Date: 06-MAY-2011 07:41
Instrument: pud1.1
Client Sample ID:



AIA 0506a005.cdf: -0.063 to 24.116 MIN

MH
5/9/11

FID LCSD0506



MANUAL INTEGRATION

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

Analyst: MH

Date: 5/9/11

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a006.d ARI ID: MB0506
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a006.d Client ID:
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m Injection Date: 06-MAY-2011 08:10
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.907	0.001	2512	33982	96.2	TFT(Surr)
15.449	-0.001	1847	15317	97.8	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.94)	319505	7524	0.024
8015B 2MP-TMB (4.17 to 16.26)	652210	6480	0.010
AK101 nC6-nC10 (4.68 to 15.16)	527526	4258	0.008
NWTPHG Tol-Nap (9.85 to 18.95)	340084	8948	0.026

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.905	0.001	5283	94.4	TFT(Surr)
15.449	0.000	11518	96.9	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/pid1.i/vpcc0506-1.b/0506a006.d

Date : 06-MAY-2011 09:10

Client ID:

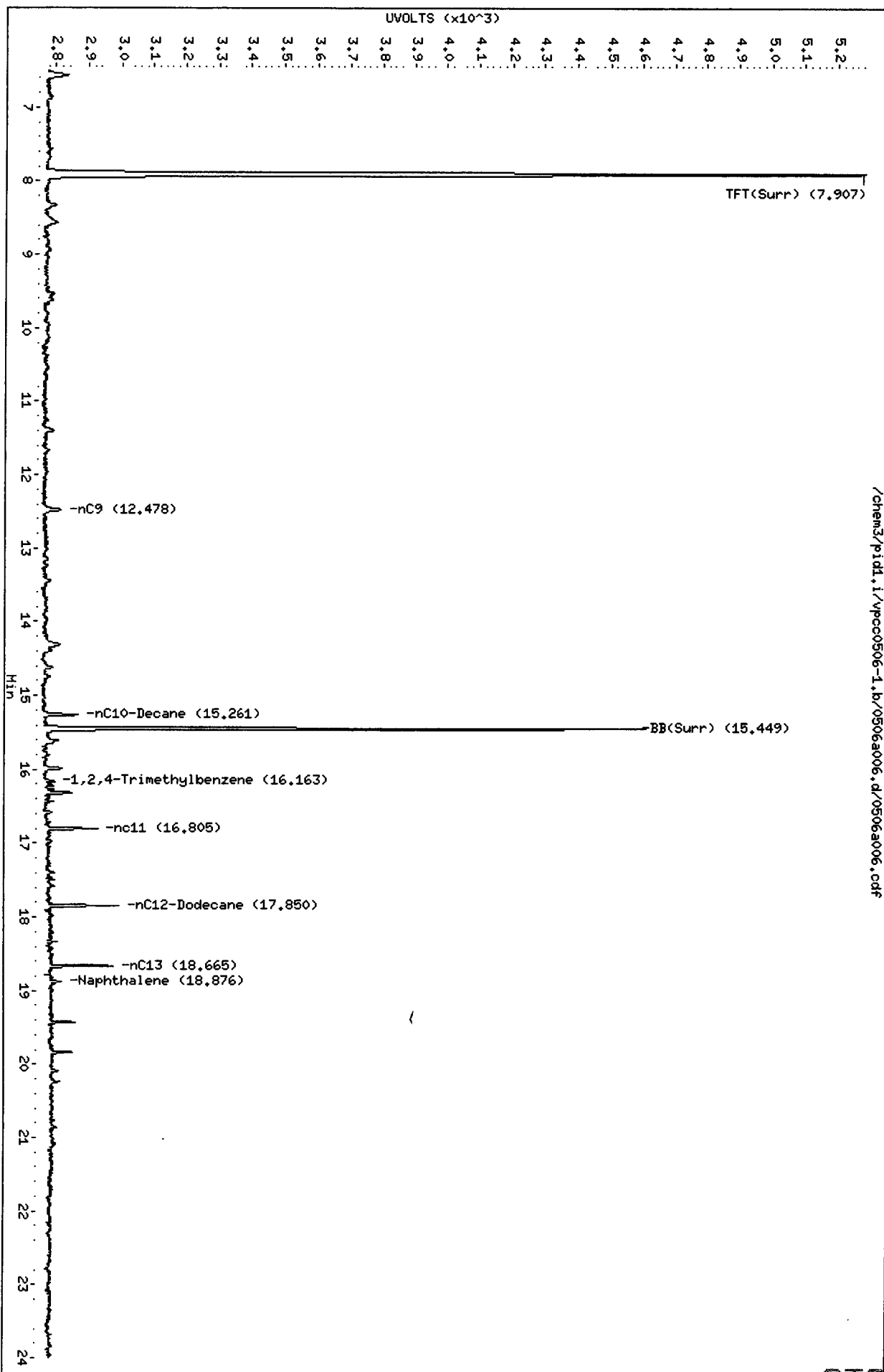
Sample Info: MB0506

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18



/chem3/pid1.i/vpcc0506-1.b/0506a006.d/0506a006.cdf

Data File: /chem3/pid1.i/vpcc0506-2.b/0506a006.d
Date : 06-MAY-2011 08:10

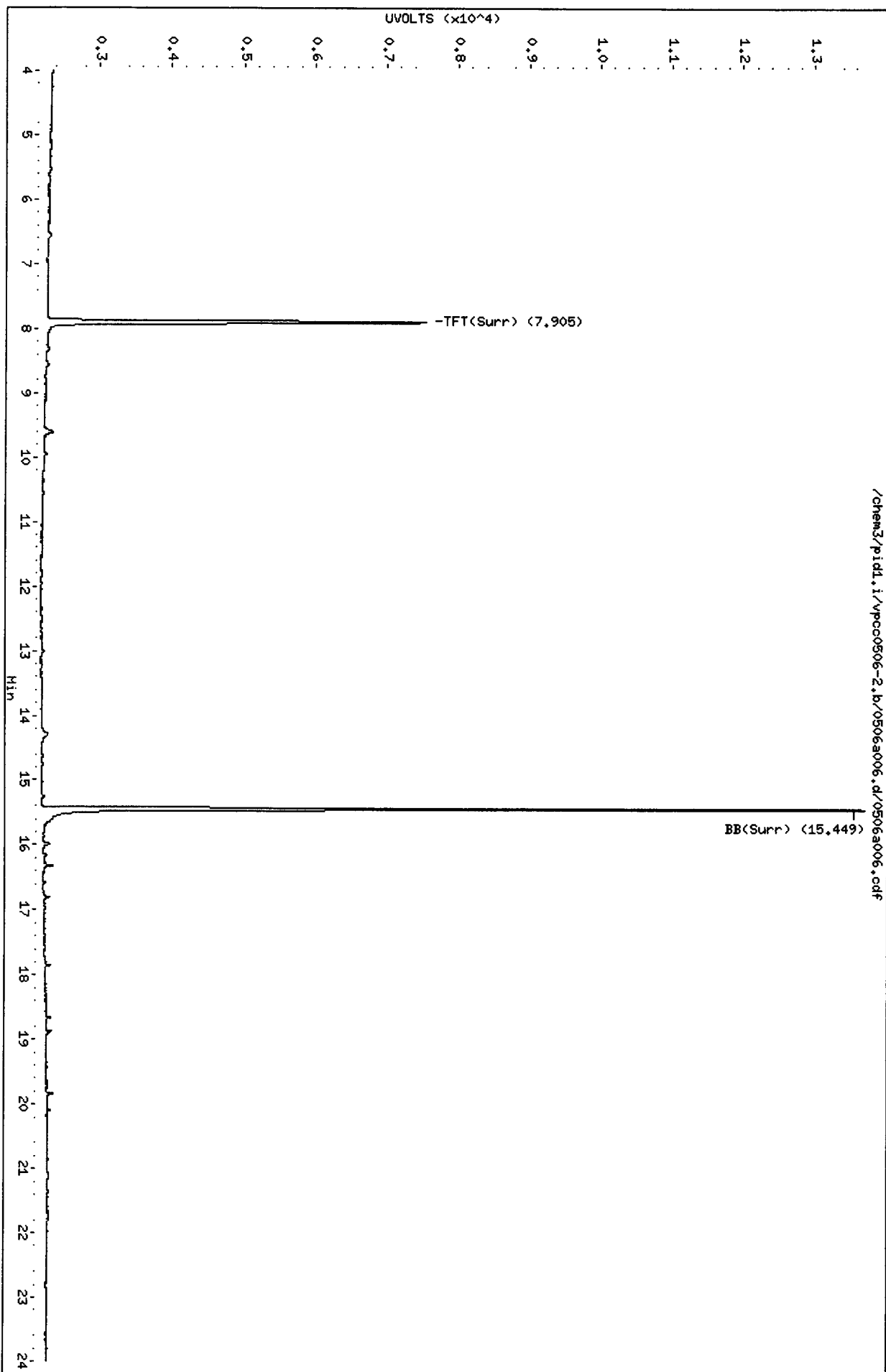
Client ID:
Sample Info: HB0506

Column phase: RTX 502-2 PID

Instrument: pid1.1

Operator: MH
Column diameter: 0.18

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MH
5/9/10

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a007.d ARI ID: ST98A
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a007.d Client ID: MW02-042611
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m Injection Date: 06-MAY-2011 09:01
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	-----	-----
7.908	0.002	2548	34565	97.6	TFT(Surr)
15.450	0.001	1817	15148	96.3	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	-----	-----	-----
WAGas Tol-C12 (9.85 to 17.94)	319505	2506	0.008
8015B 2MP-TMB (4.17 to 16.26)	652210	408	0.001
AK101 nC6-nC10 (4.68 to 15.16)	527526	0	0.000
NWTPHG Tol-Nap (9.85 to 18.95)	340084	3520	0.010

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	-----	-----
7.907	0.003	5472	97.7	TFT(Surr)
15.451	0.002	11339	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

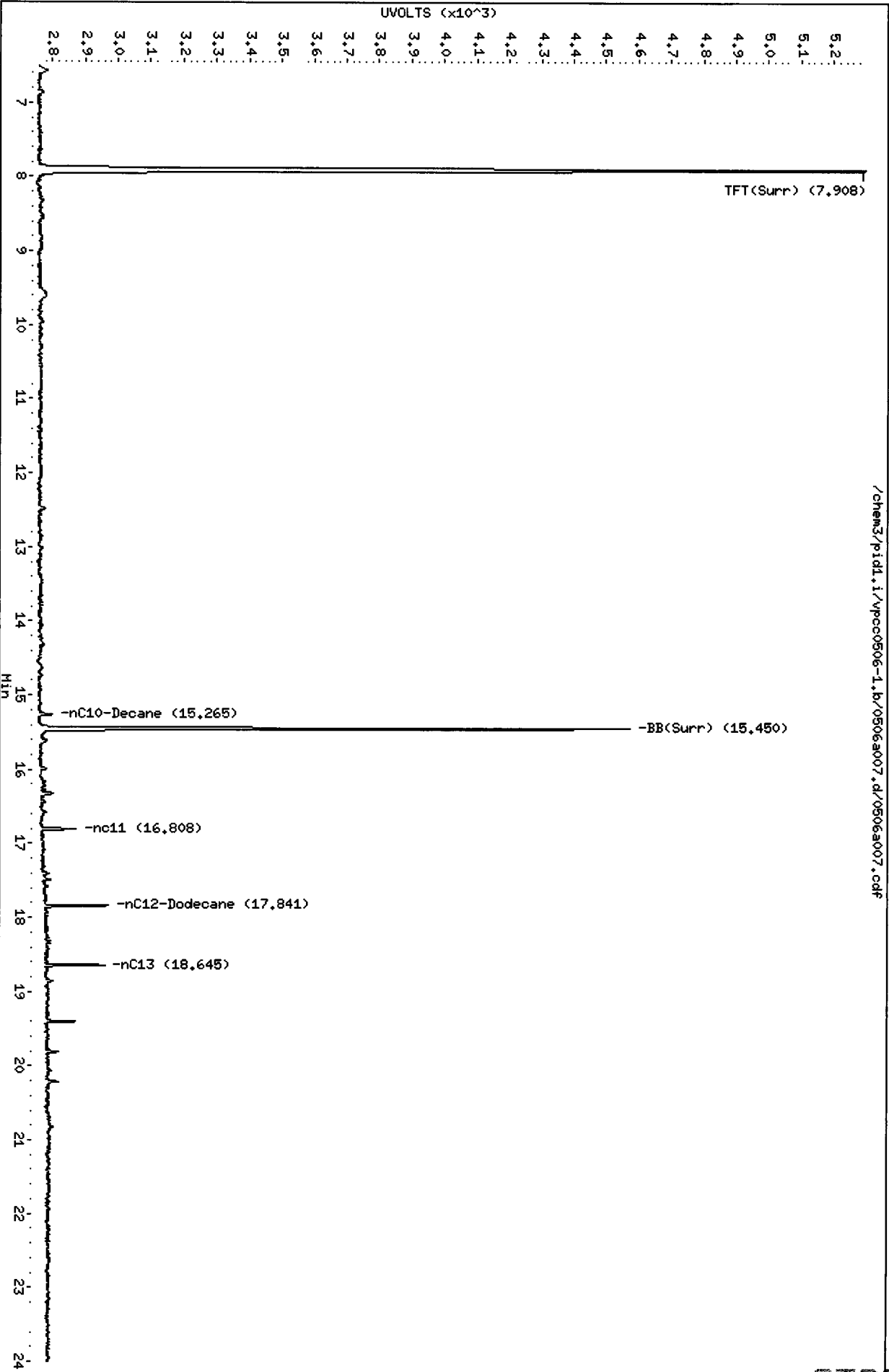
Data File: /chem3/pid1.i/vpcc0506-1.b/0506a007.d
Date: 06-MAY-2011 09:01
Client ID: MM02-042611
Sample Info: ST98A

Instrument: pid1.i

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Column phase: RTX 502-2 FID

Operator: HH
Column diameter: 0.18



/chem3/pid1.i/vpcc0506-1.b/0506a007.d/0506a007.cdf

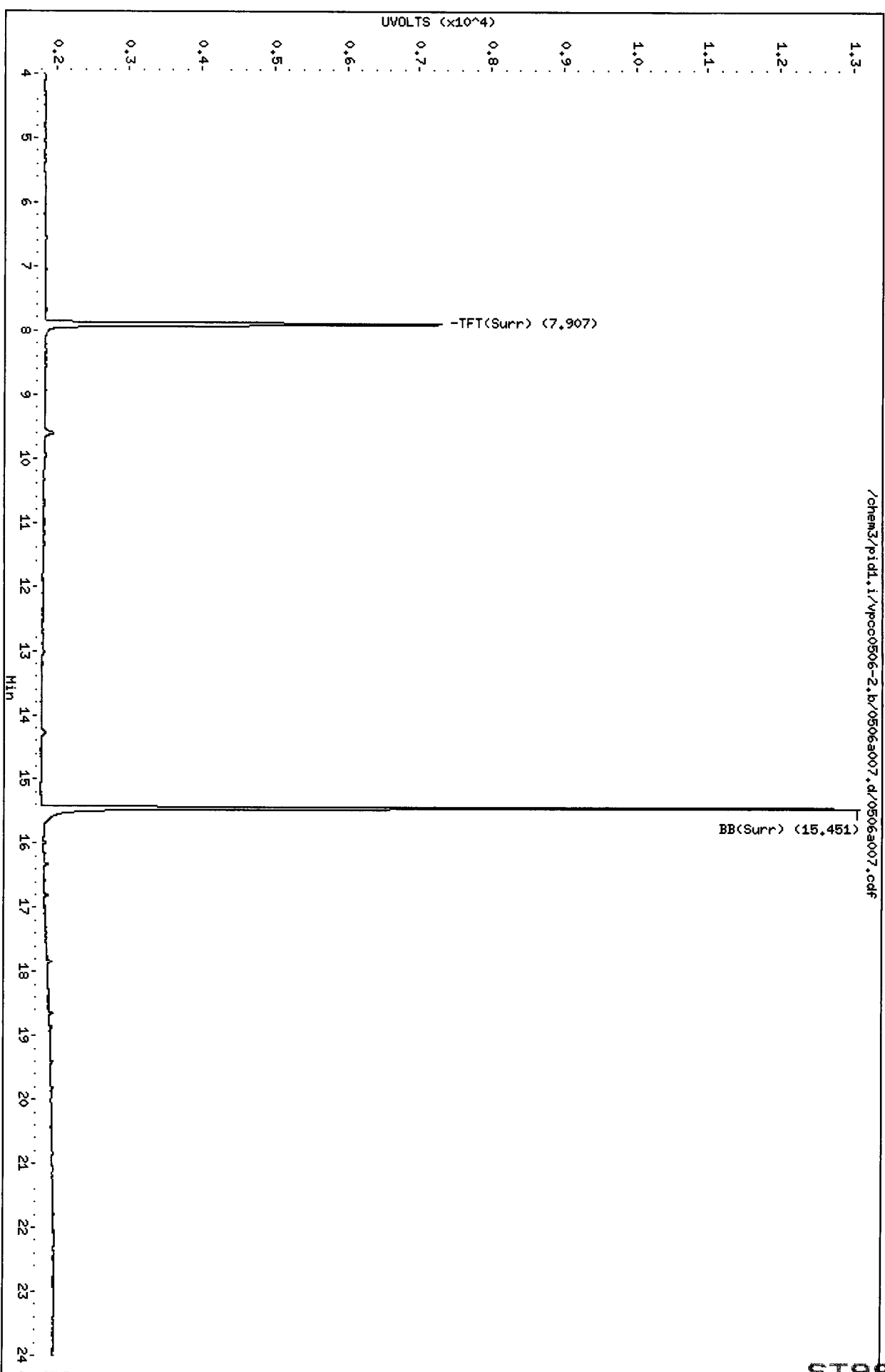
ST98 : 01153

Data File: /chem3/pid1.i/vpcc0506-2.b/0506a007.d
Date: 06-May-2011 09:01
Client ID: MM02-042611
Sample Info: ST98A

Instrument: pid1.i

Column phase: RTX 502-2 PID

Operator: MH
Column diameter: 0.18



/chem3/pid1.i/vpcc0506-2.b/0506a007.d/0506a007.cdf

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a008.d ARI ID: ST98B
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a008.d Client ID: MW03-042611
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m Injection Date: 06-MAY-2011 09:30
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.906	0.000	2539	34461	97.3	TFT (Surr)
15.450	0.000	1819	15185	96.4	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.94)	319505	1080	0.003
8015B 2MP-TMB (4.17 to 16.26)	652210	2	0.000
AK101 nC6-nC10 (4.68 to 15.16)	527526	1	0.000
NWTPHG Tol-Nap (9.85 to 18.95)	340084	1733	0.005

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.904	0.000	5408	96.6	TFT(Surr)
15.449	0.000	11401	95.9	BB(Surr)

SW8021 (PID)

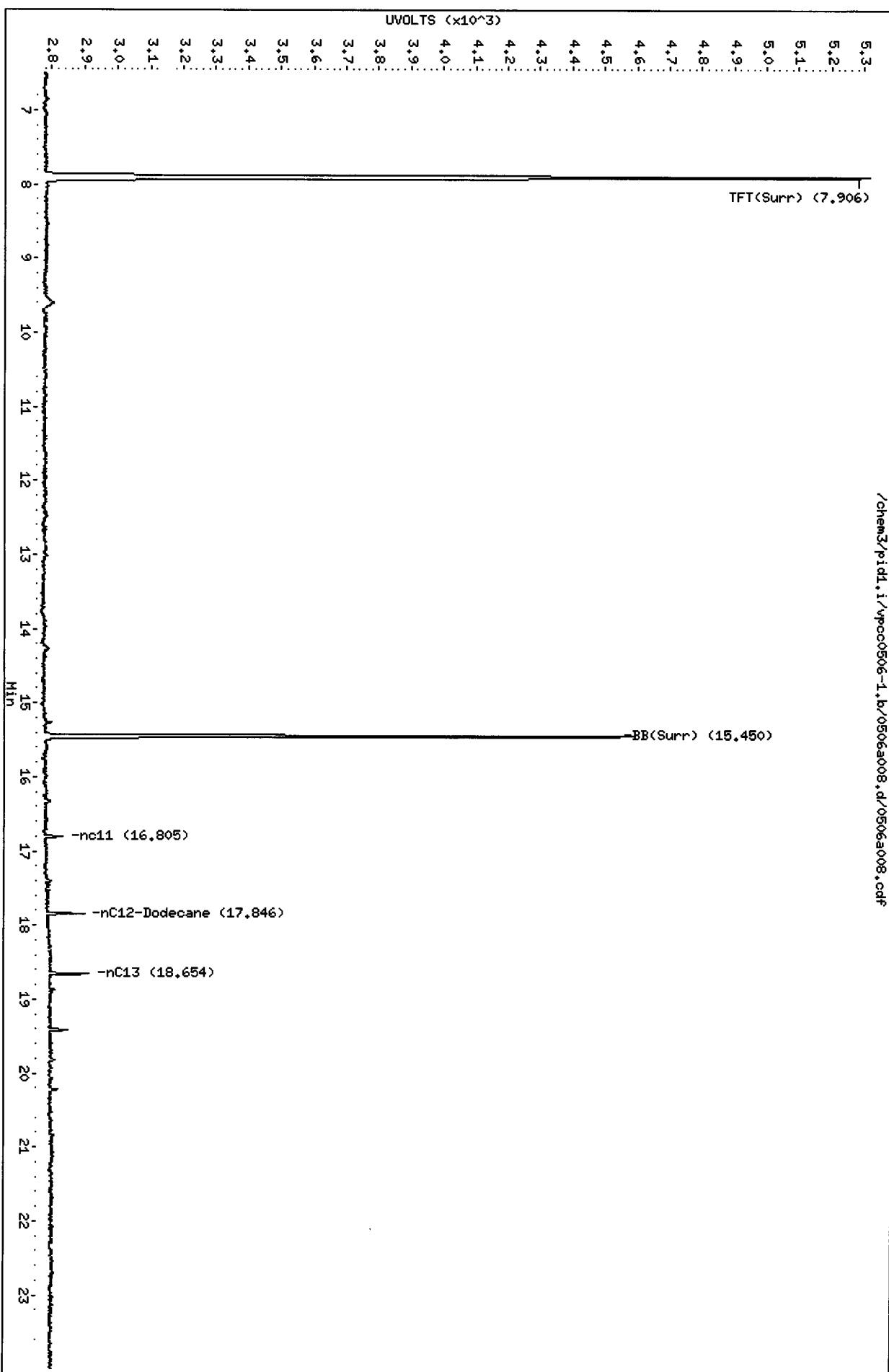
RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
ND	---	---	---	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

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

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a008.d
Date: 06-MAY-2011 09:30
Client ID: MM03-042614
Sample Info: ST98B

Column phase: RTX 502-2 FID

Instrument: pid1.i
Operator: MH
Column diameter: 0.18



/chem3/pid1.i/vpcc0506-1.b/0506a008.d/0506a008.cdf

Data File: /chem3/pid1.i/vpcc0506-2.b/0506a008.d

Date : 06-MAY-2011 09:30

Client ID: MM03-042611

Sample Info: ST988

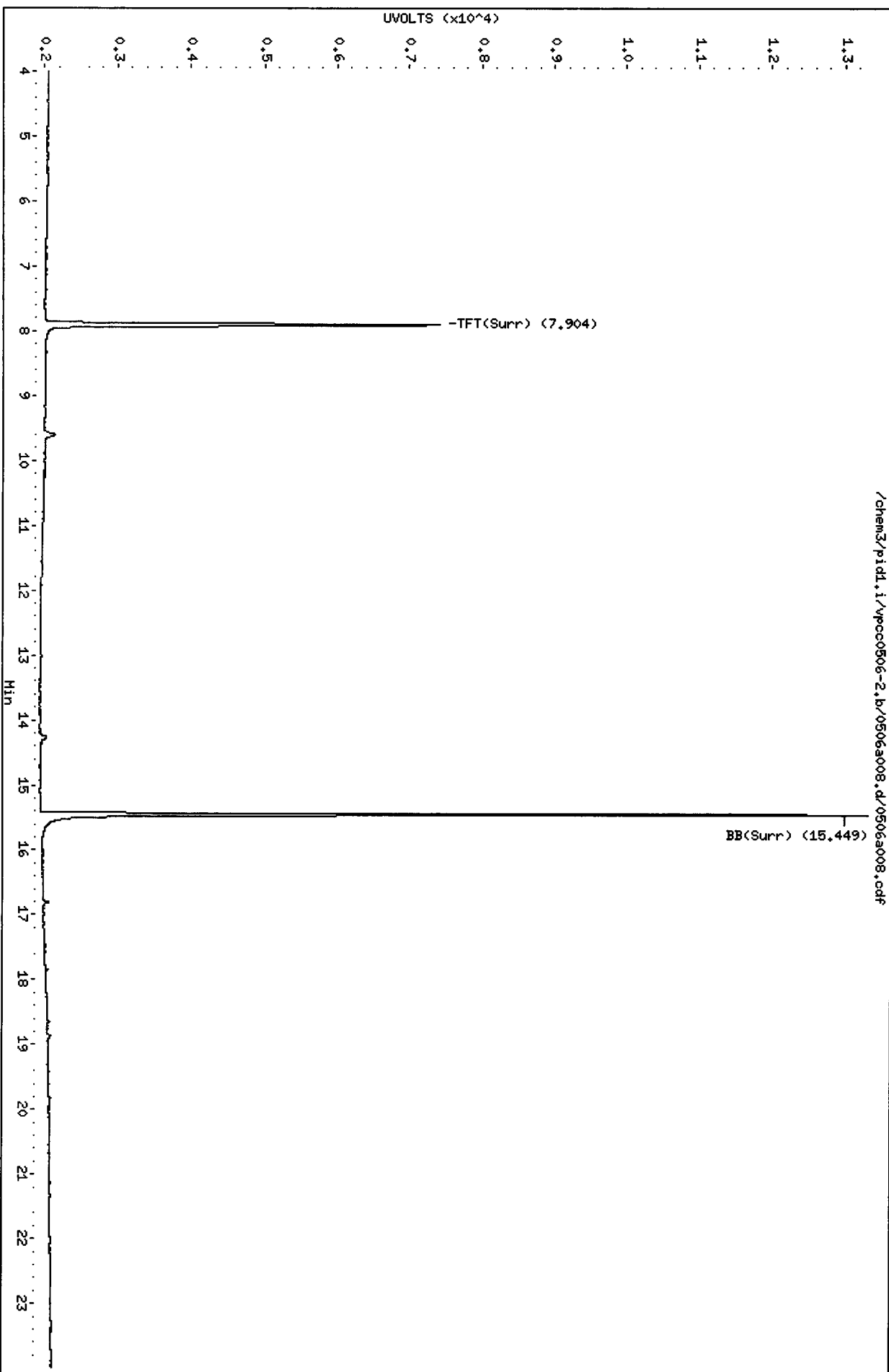
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

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ST988 : 01157

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a009.d ARI ID: ST98C
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a009.d Client ID: MW13-042611
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m Injection Date: 06-MAY-2011 09:59
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	----	----	-----
7.909	0.002	2572	35077	98.5	TFT(Surr)
15.449	-0.001	1865	15547	98.8	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.94)	319505	772	0.002
8015B 2MP-TMB (4.17 to 16.26)	652210	1	0.000
AK101 nC6-nC10 (4.68 to 15.16)	527526	0	0.000
NWTPHG Tol-Nap (9.85 to 18.95)	340084	1367	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
--	-----	-----	----	-----
7.906	0.002	5434	97.1	TFT(Surr)
15.449	-0.001	11633	97.8	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

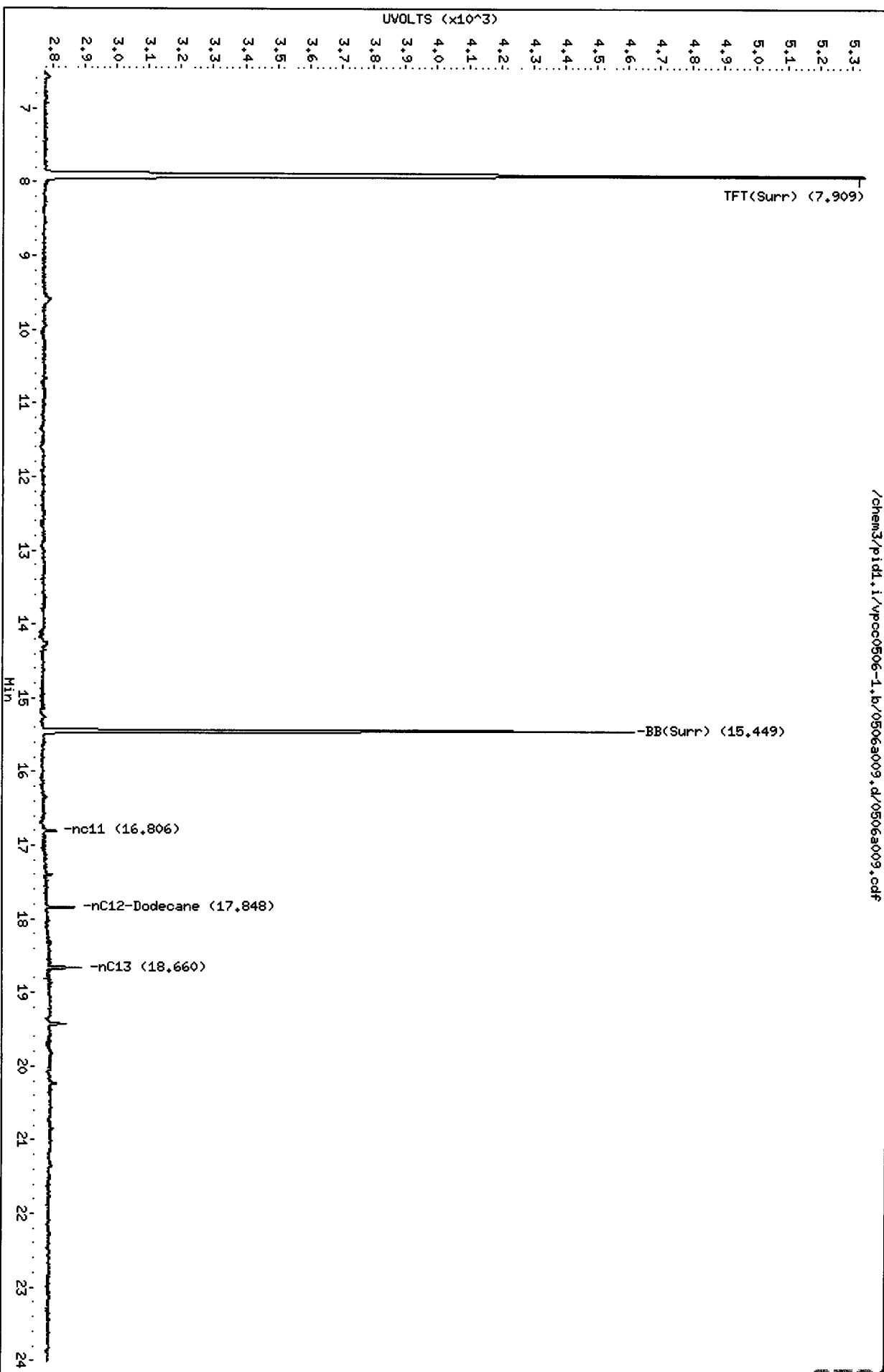
Data File: /chem3/pid1.i/vpcc0506-1.b/0506a009.d
Date: 06-MAY-2011 09:59
Client ID: HML3-042611
Sample Info: ST98C

Column phase: RTX 502-2 FID

/chem3/pid1.i/vpcc0506-1.b/0506a009.d/0506a009.cdf

Instrument: pid1.i
Operator: HH
Column diameter: 0.18

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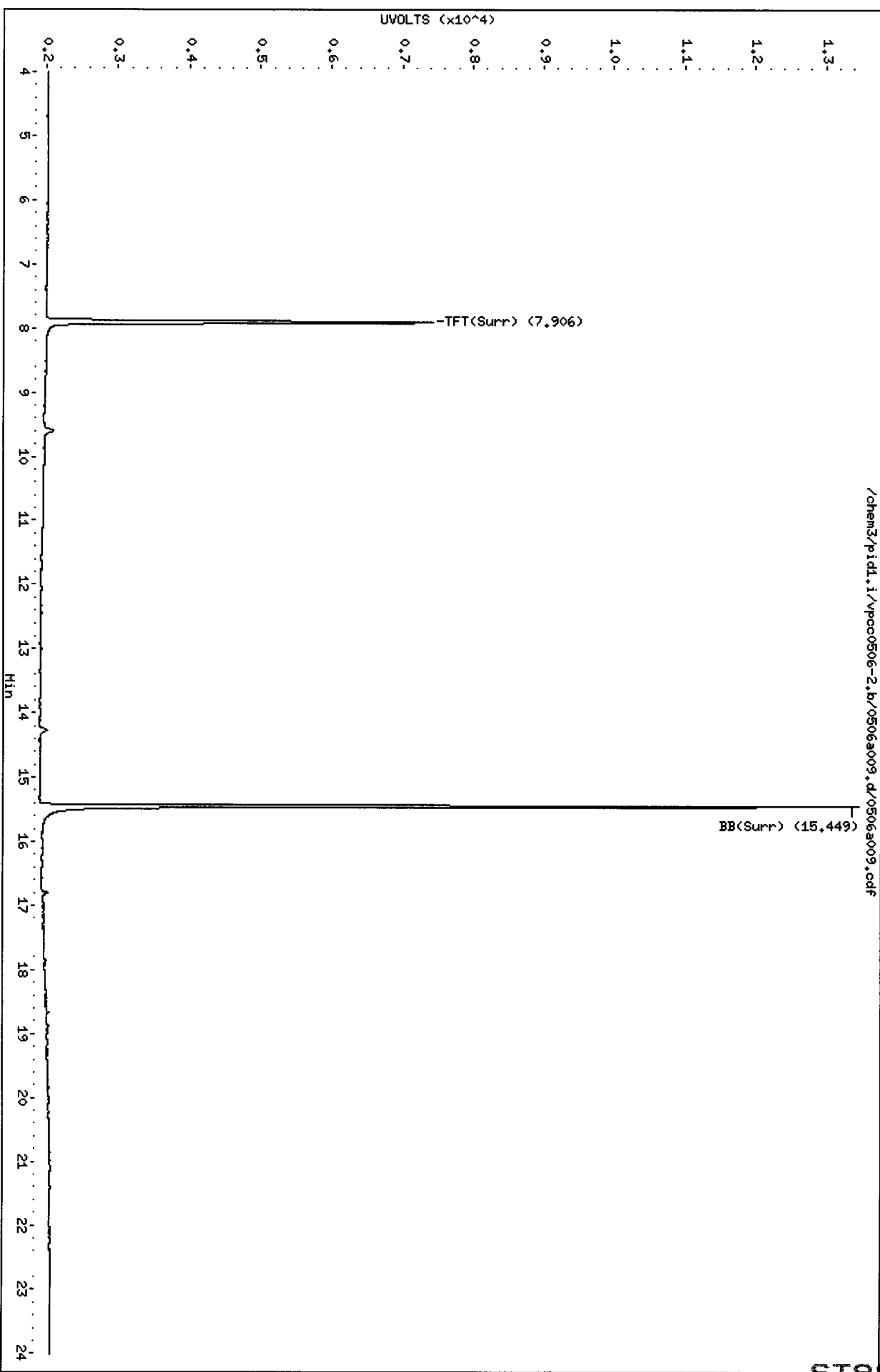


ST98 : 01159

Data File: /chem3/pid1.i/vpcc0506-2.b/0506a009.d
Date : 06-MAY-2011 09:59
Client ID: M43-042614
Sample Info: ST98C

Column phase: RTX 502-2 PID

Instrument: pid1.i
Operator: MH
Column diameter: 0.18



MH
5/6/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a010.d ARI ID: ST98D
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a010.d Client ID: MW06-042611
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m Injection Date: 06-MAY-2011 10:28
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	-----	-----	-----
7.908	0.002	2569	35060	98.4	TFT(Surr)
15.450	0.000	1892	15762	100.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.94)	319505	40132	0.126 M
8015B 2MP-TMB (4.17 to 16.26)	652210	5215	0.008 M
AK101 nC6-nC10 (4.68 to 15.16)	527526	2856	0.005
NWTPHG Tol-Nap (9.85 to 18.95)	340084	55154	0.162 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	-----	-----
7.906	0.002	5408	96.6	TFT(Surr)
15.450	0.000	11736	98.7	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
ND	---	---	---	Benzene
ND	---	---	---	Toluene
12.852	0.001	328	1.13	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

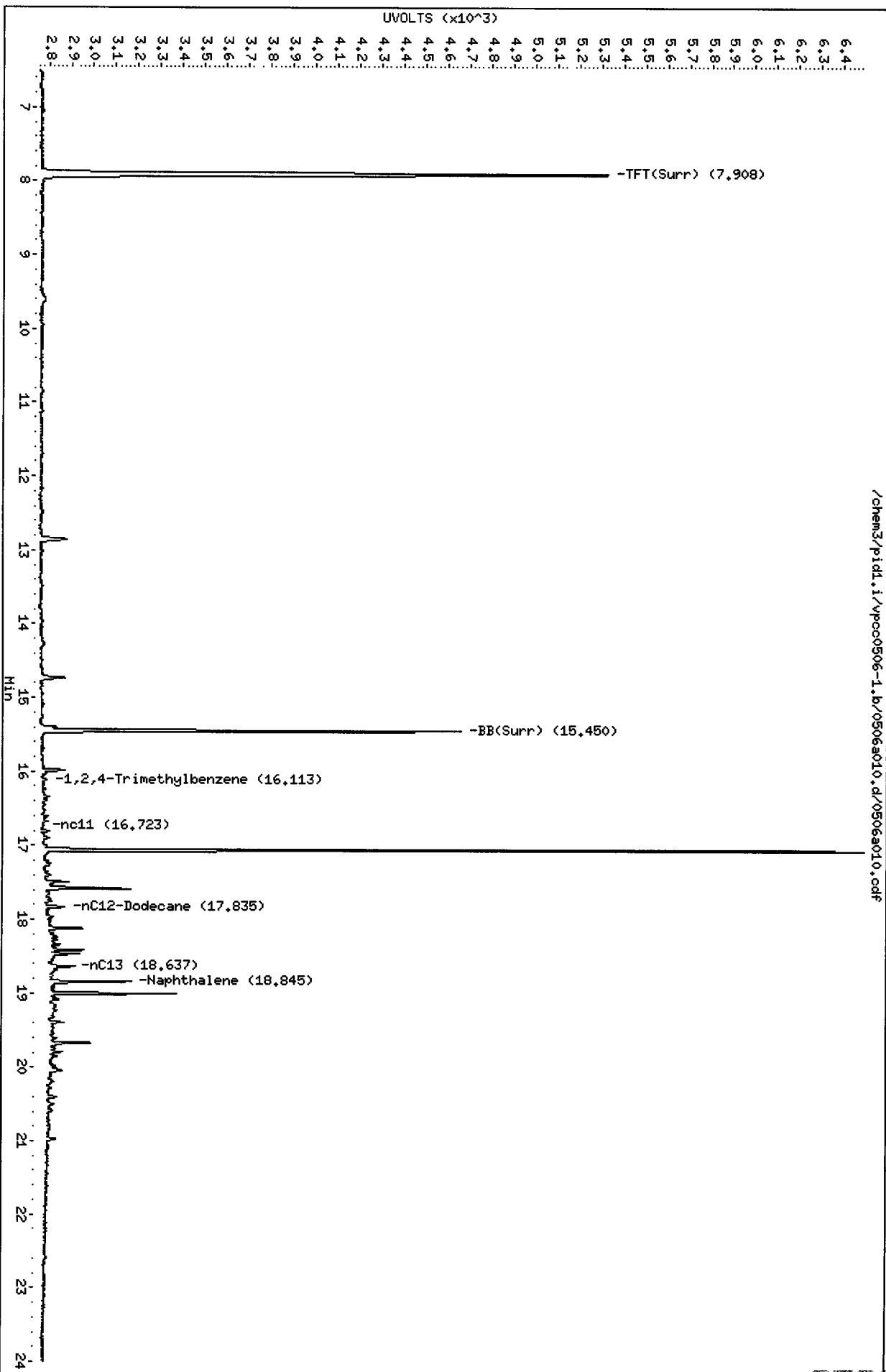
A Indicates Peak Area was used for quantitation instead of Height
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a010.d
Date: 06-MAY-2011 10:28
Client ID: HM06-042611
Sample Info: ST98D

Column phase: RTX 502-2 FID

Instrument: pid1.i
Operator: MH
Column diameter: 0.18

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ST98 : 01162

Data File: /chem3/pid1.i/vpcc0506-2.b/0506a010.d

Date: 06-MAY-2011 10:28

Client ID: MK06-042611

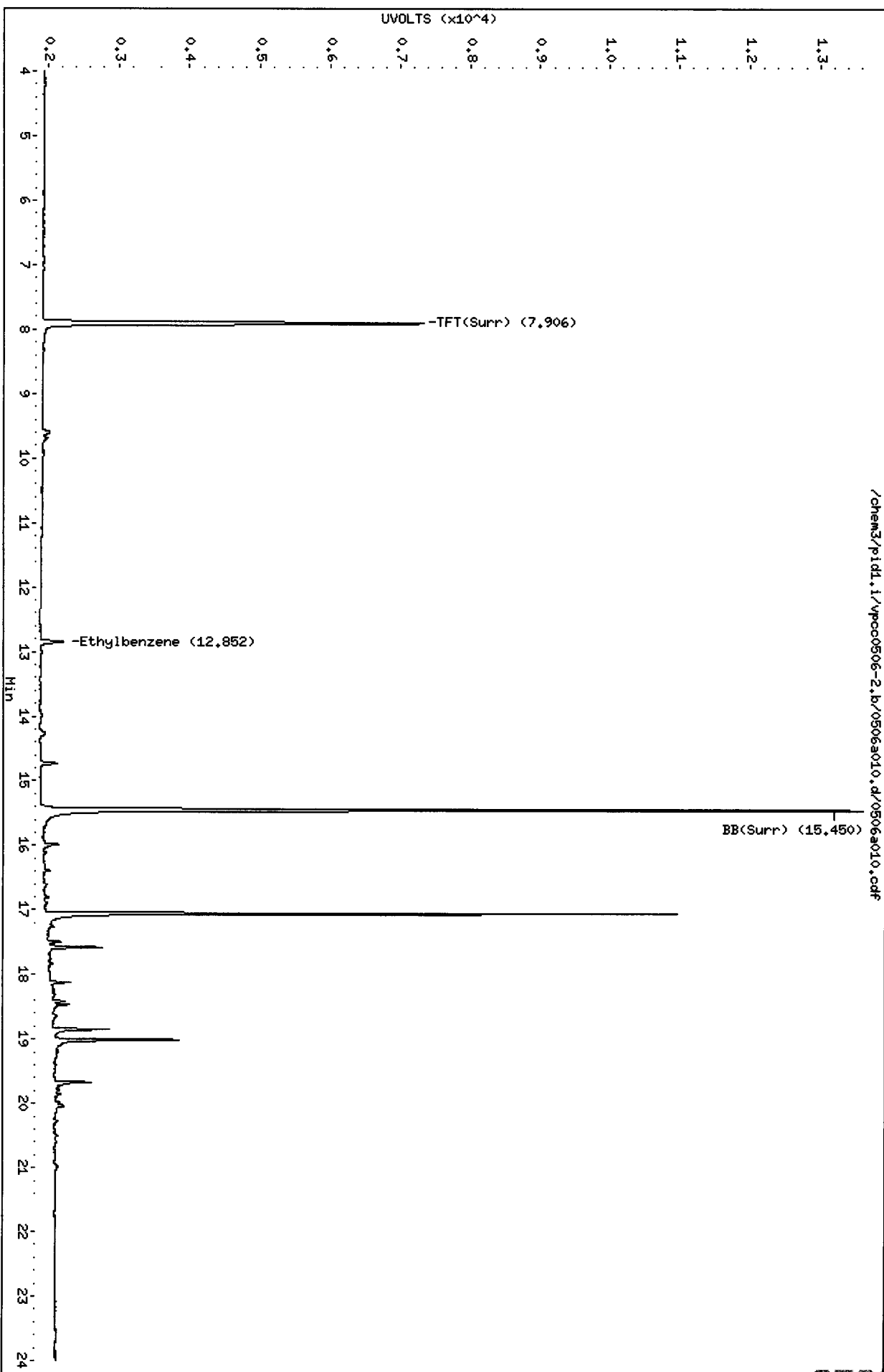
Sample Info: ST98D

Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: HH

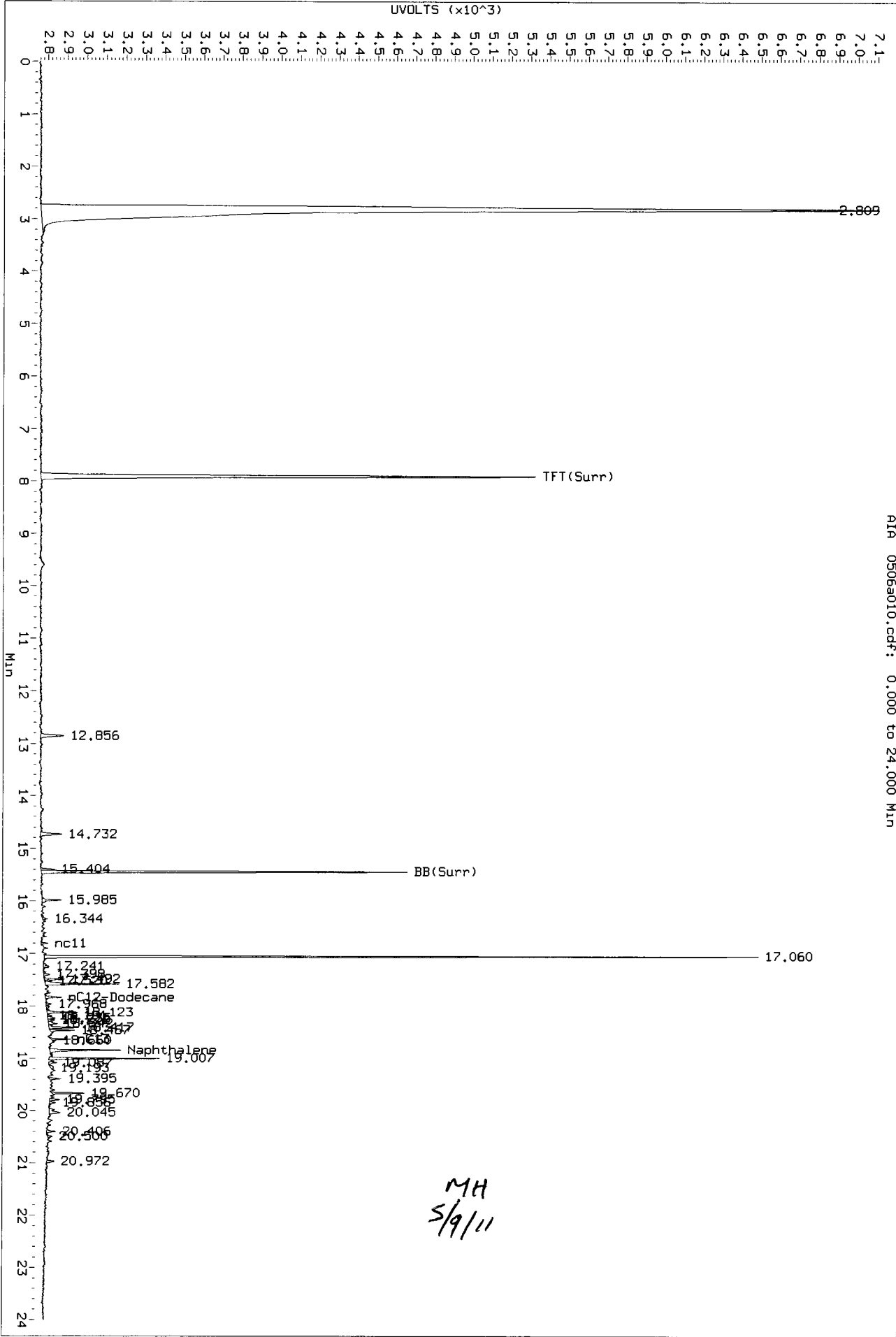
Column diameter: 0.18



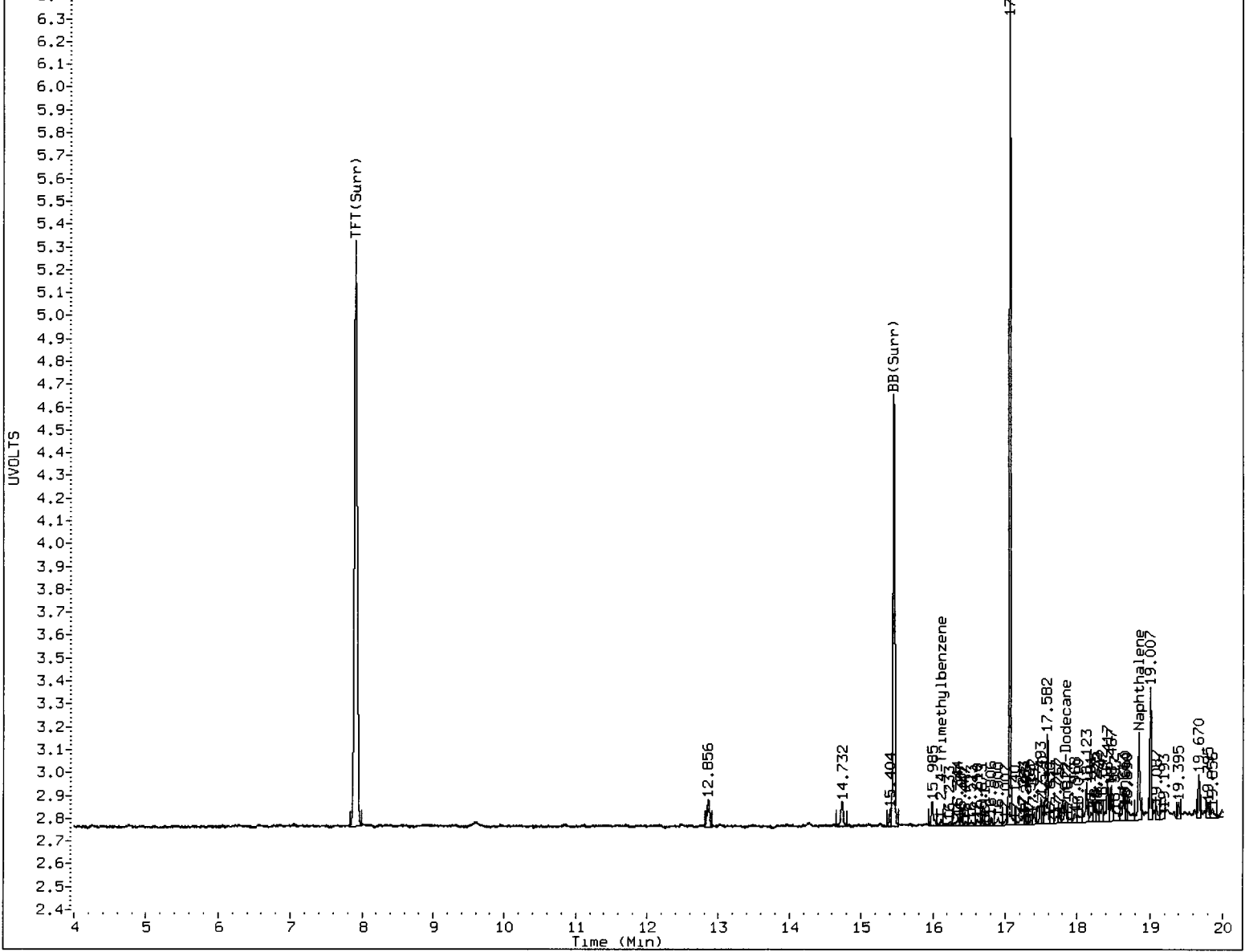
/chem3/pid1.i/vpcc0506-2.b/0506a010.d/0506a010.cdf

Data File: /chem3/pid1.1/vpcc0506-1.b/0506a010.d/0506a010.cdf
Injection Date: 06-MAY-2011 10:28
Instrument: pid1.1
Client Sample ID: MW06-042611

AIA 0506a010.cdf: 0.000 to 24.000 Min



FID ST98D



MANUAL INTEGRATION

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

Analyst: MH Date: 5/9/11

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a011.d ARI ID: ST98DMS
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a011.d Client ID: MW06-042611 MS
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m Injection Date: 06-MAY-2011 10:57
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.910	0.003	2734	42133	104.7	TFT(Surr)
15.450	0.000	1930	16743	102.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.94)	319505	367426	1.150 M
8015B 2MP-TMB (4.17 to 16.26)	652210	697441	1.069 M
AK101 nC6-nC10 (4.68 to 15.16)	527526	562847	1.067 M
NWTPHG Tol-Nap (9.85 to 18.95)	340084	400622	1.178 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.908	0.003	5691	101.7	TFT(Surr)
15.450	0.001	12067	101.5	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.066	0.003	1156	3.11	Benzene
9.951	0.003	12482	36.71	Toluene
12.852	0.001	3471	11.94	Ethylbenzene
13.017	0.004	12607	39.09	M/P-Xylene
13.972	0.001	4525	17.94	O-Xylene
4.534	-0.005	250	2.17	MTBE

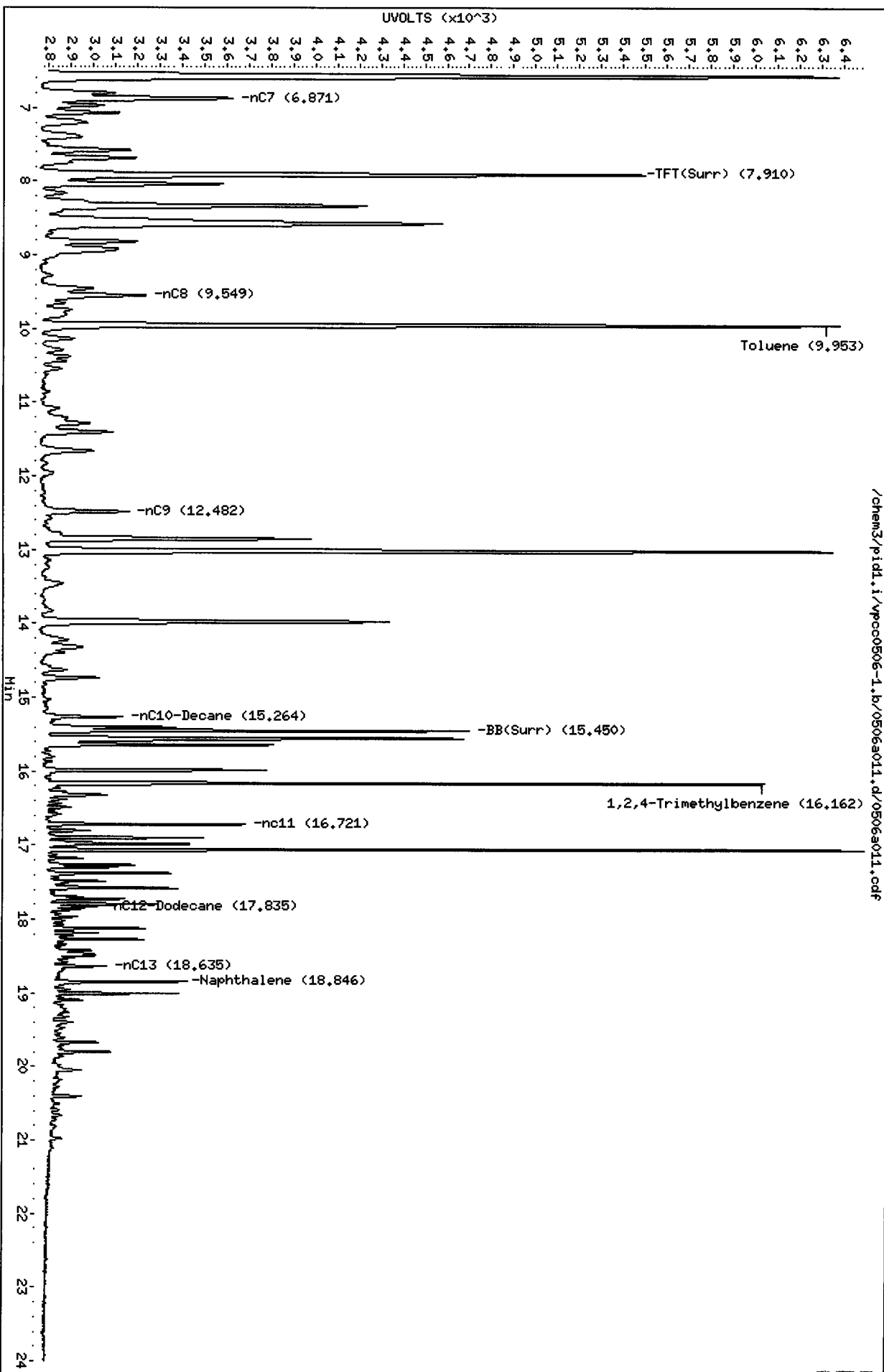
A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a011.d
Date: 06-MAY-2011 10:57
Client ID: MM06-042611 HS
Sample Info: ST98DMS

Column phase: RTX 502-2 FID

Instrument: pid1.i
Operator: HH
Column diameter: 0.18



/chem3/pid1.i/vpcc0506-1.b/0506a011.d/0506a011.cdf

Data File: /chem3/pid1.i/vpcc0506-2.b/0506a011.d

Date: 06-MAY-2011 10:57

Client ID: MM06-042611 HS

Sample Info: ST98DMS

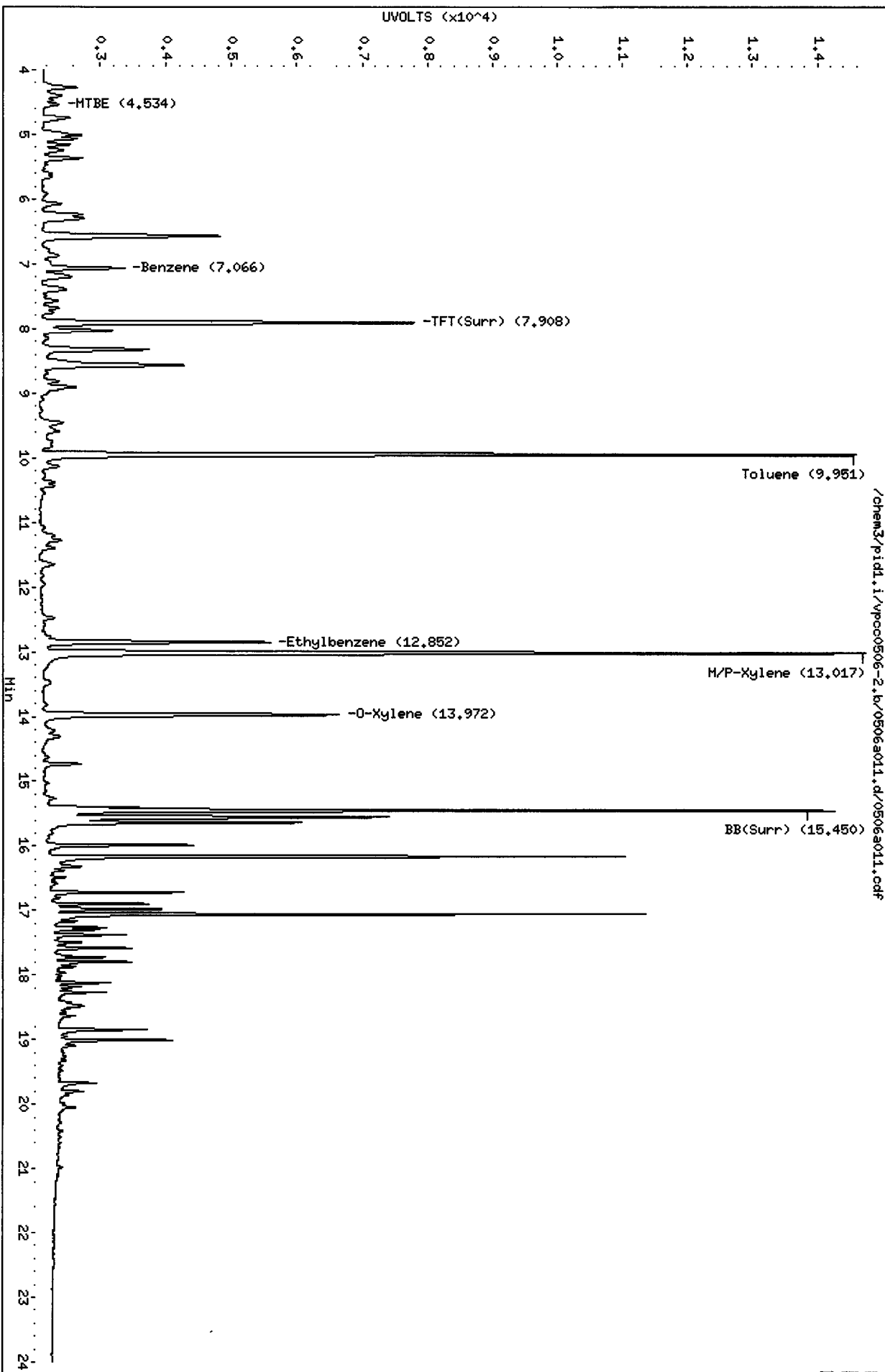
Column phase: RTX 502-2 PID

Instrument: pid1.i

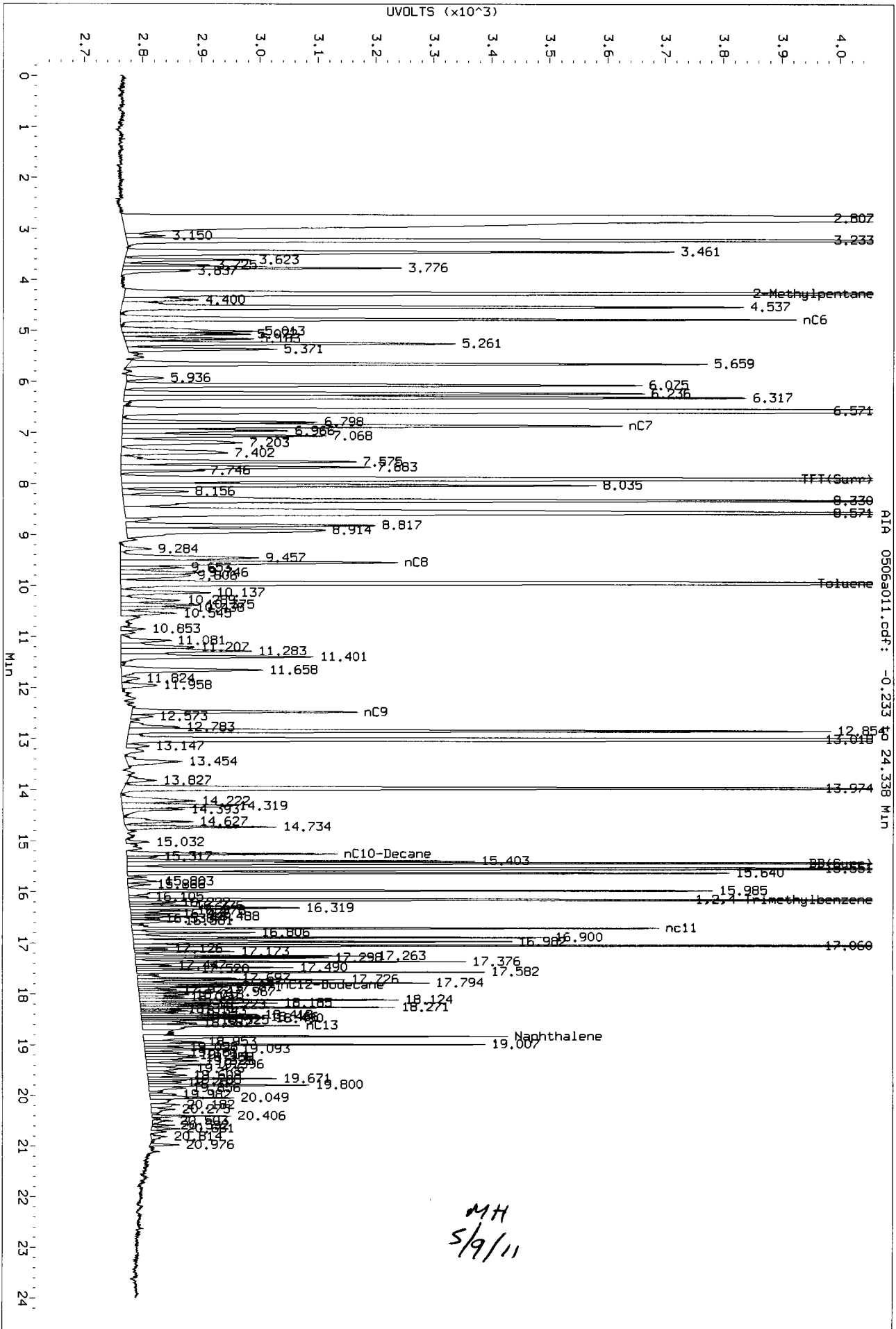
Operator: MH

Column diameter: 0.18

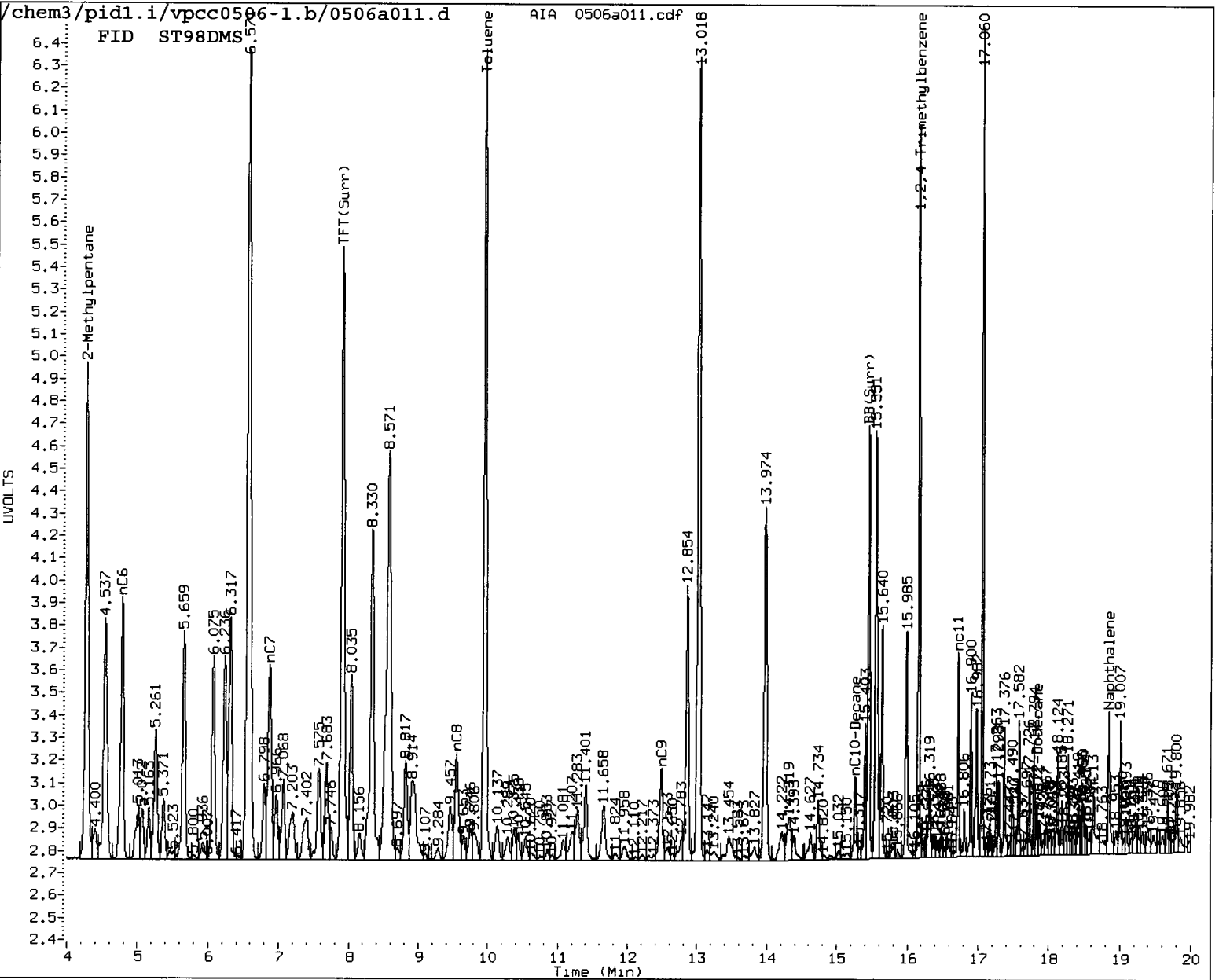
Page 1



Data File: /chem3/pid1.1/vpcc0506-1.b/0506a011.d/0506a011.cdf
 Injection Date: 06-MAY-2011 10:57
 Instrument: pid1.1
 Client Sample ID: MW06-042611 MS



MH
5/9/11



MANUAL INTEGRATION

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

Analyst: MH Date: 5/9/11

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a012.d ARI ID: ST98DMSD
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a012.d Client ID: MW06-042611 MSD
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m Injection Date: 06-MAY-2011 11:26
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	----	----	-----
7.908	0.002	2692	41100	103.1	TFT(Surr)
15.450	0.001	1920	16595	101.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 (9.85 to 17.94)	319505	368840	1.154 M
8015B 2MP-TMB (4.17 to 16.26)	652210	690642	1.059 M
AK101 nC6-nC10 (4.68 to 15.16)	527526	556736	1.055 M
NWTPHG Tol-Nap (9.85 to 18.95)	340084	402574	1.184 M

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	----	-----
7.907	0.002	5629	100.5	TFT(Surr)
15.450	0.001	12039	101.2	BB(Surr)

SW8021 (PID)

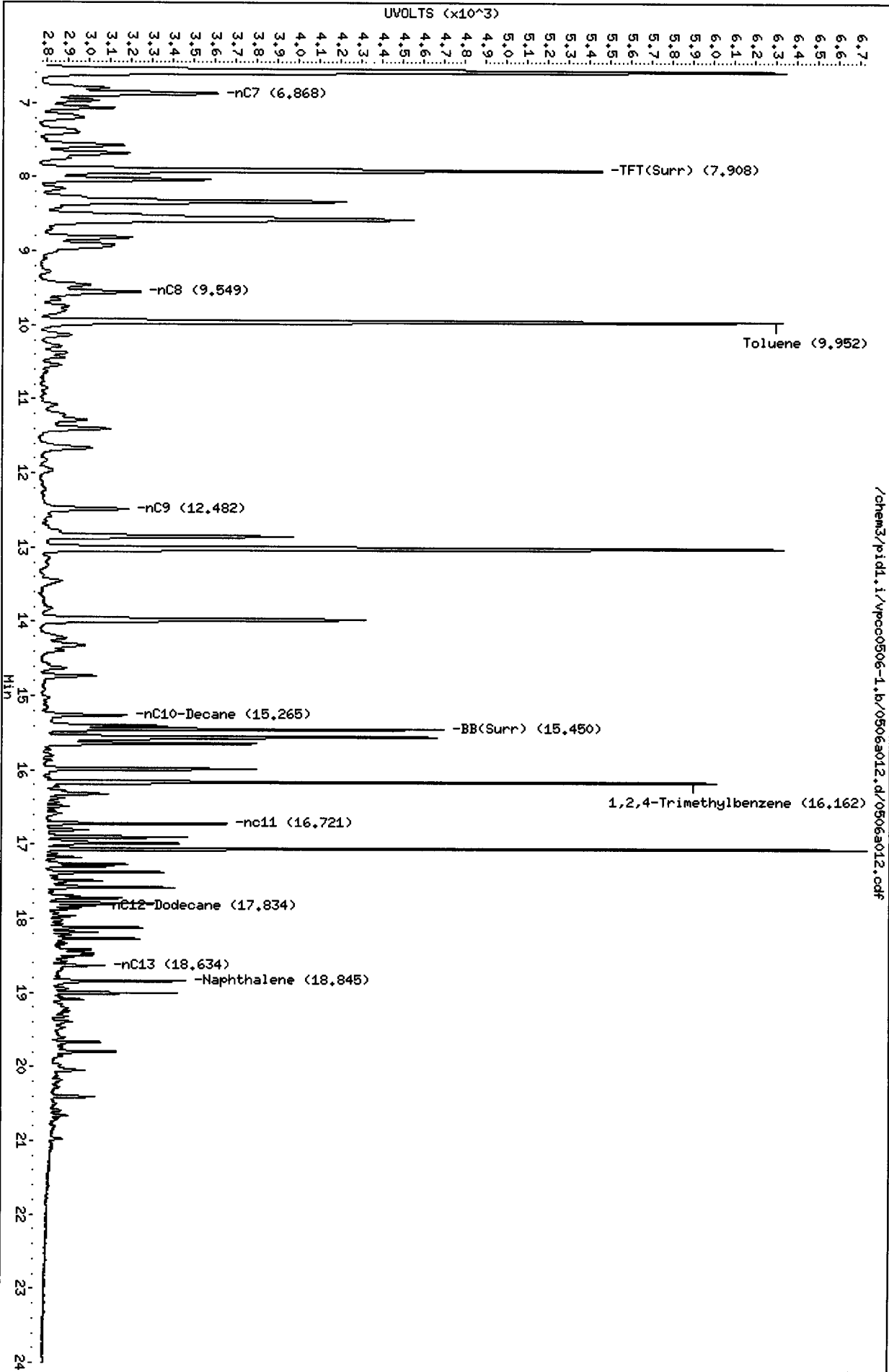
RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
7.065	0.002	1234	3.32	Benzene
9.950	0.002	12283	36.12	Toluene
12.852	0.001	3469	11.93	Ethylbenzene
13.017	0.004	12470	38.67	M/P-Xylene
13.972	0.001	4476	17.74	O-Xylene
4.532	-0.006	244	2.12	MTBE

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

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a012.d
Date: 06-May-2011 11:26
Client ID: MK06-042611 HSD
Sample Info: ST98DMSD

Column phase: RTX 502-2 FID

Instrument: pid1.i
Operator: HH
Column diameter: 0.18

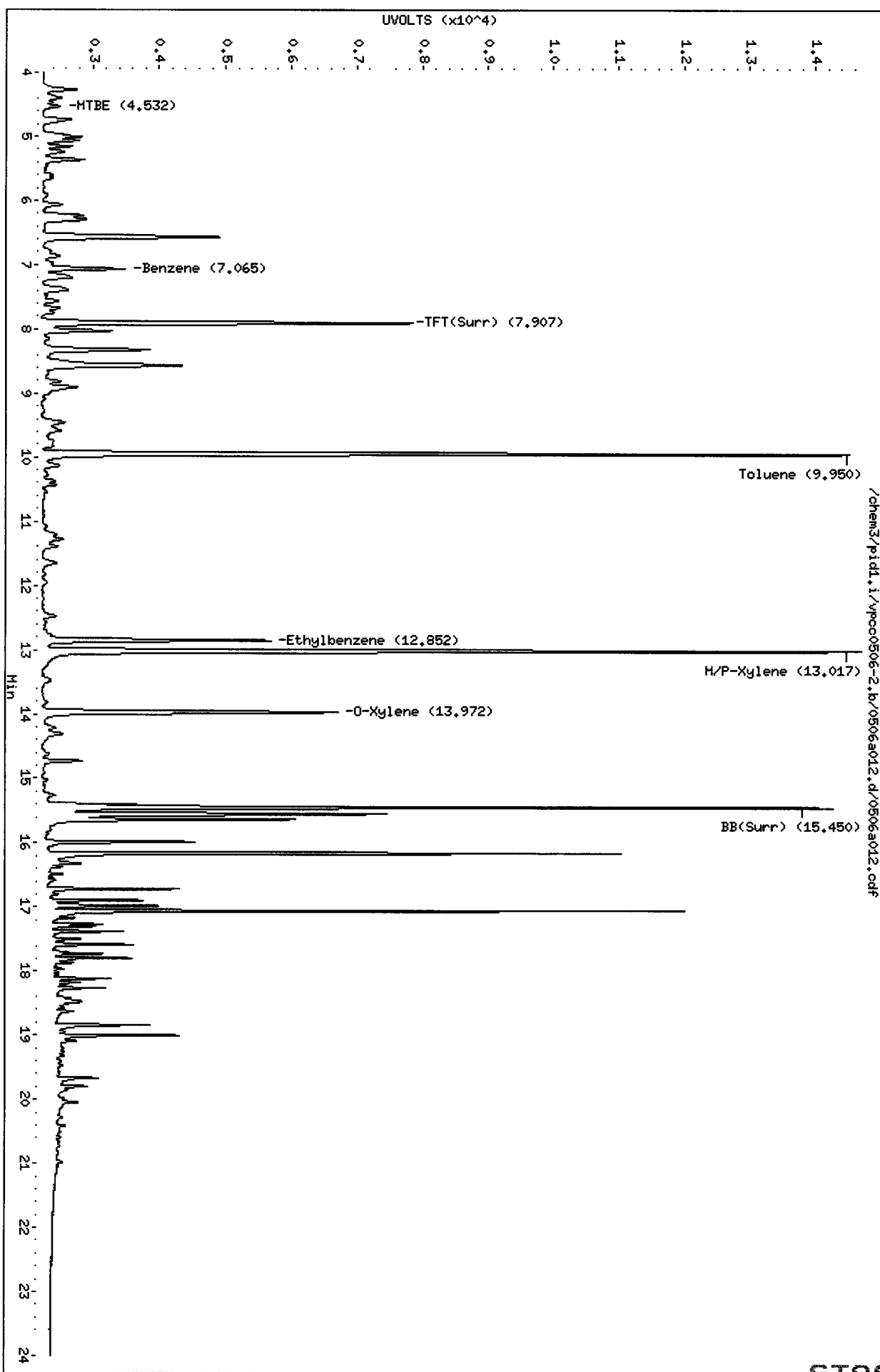


/chem3/pid1.i/vpcc0506-1.b/0506a012.d/0506a012.caf

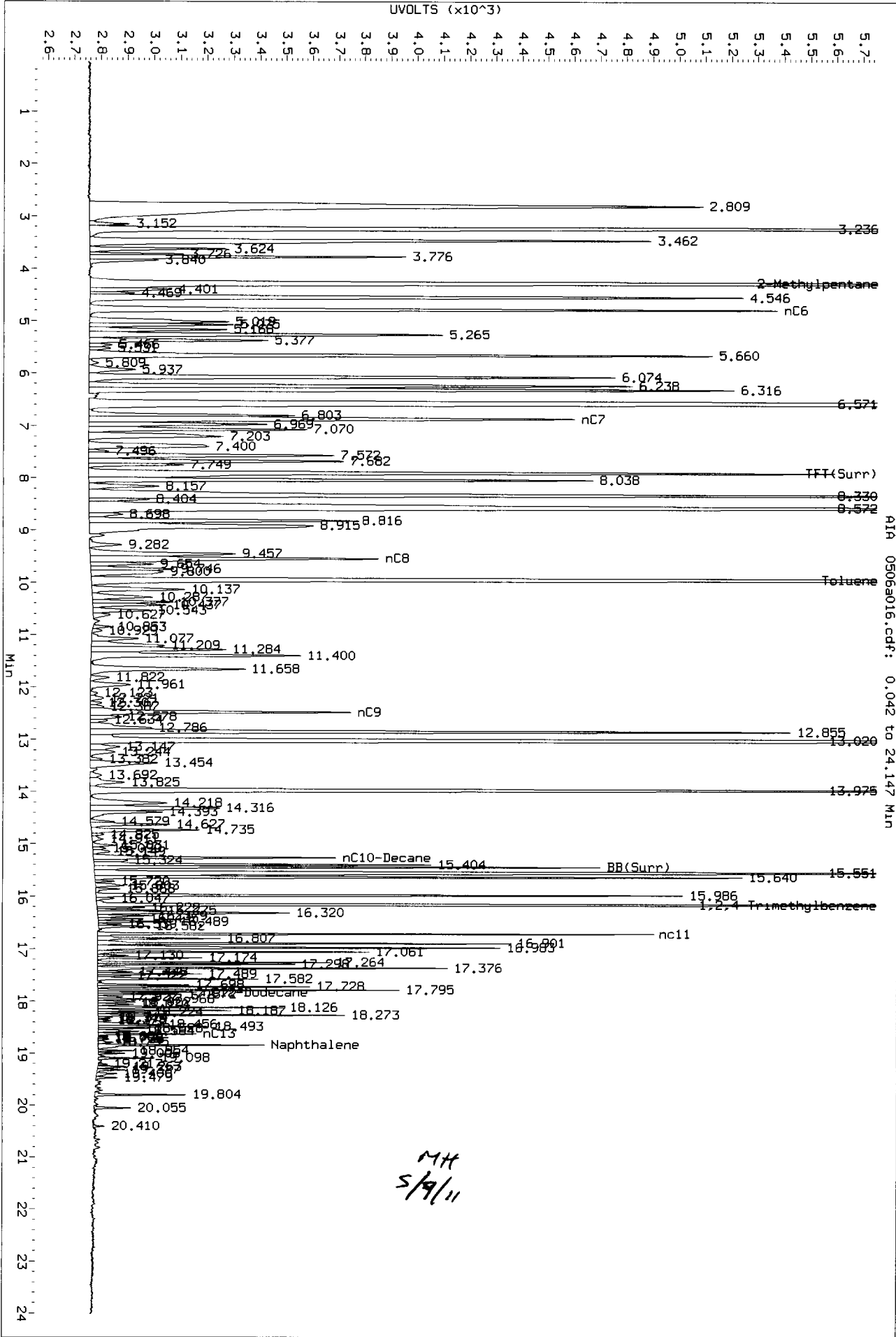
Data File: /chem3/pid1.i/vpcc0506-2.l/0506a012.d
Date: 06-MAY-2011 11:26
Client ID: MM06-042611 HSD
Sample Info: ST98DHSD

Column phase: RTX 502-2 PID

Instrument: pid1.i
Operator: MH
Column diameter: 0.18



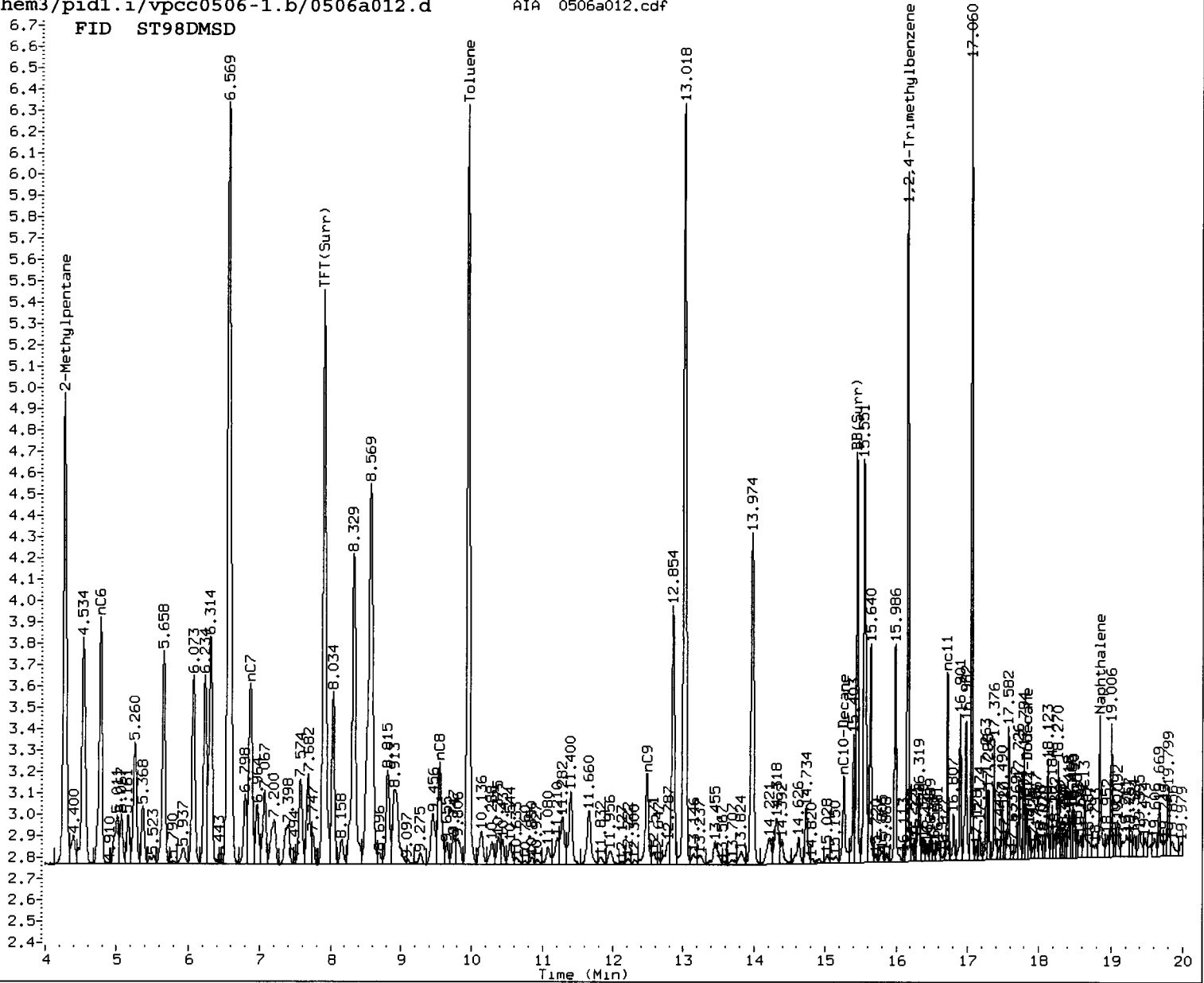
Data File: /chem3/pid1.1/vpcc0506-1.b/0506a016.d/0506a016.cdf
Injection Date: 06-MAY-2011 13:22
Instrument: pid1.1
Client Sample ID:



MH
5/9/11

FID ST98DMSD

UVOLTS



MANUAL INTEGRATION

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

Analyst: MT Date: 5/9/11

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a015.d ARI ID: BCAL 2
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a015.d Client ID:
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m Injection Date: 06-MAY-2011 12:53
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
7.907	0.001	2495	34075	95.6	TFT(Surr)
15.451	0.001	1818	15382	96.3	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.94)	319505	211234	0.661
8015B 2MP-TMB (4.17 to 16.26)	652210	206863	0.317
AK101 nC6-nC10 (4.68 to 15.16)	527526	194664	0.369
NWTPHG Tol-Nap (9.85 to 18.95)	340084	211505	0.622

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.905	0.001	5235	93.5	TFT(Surr)
15.450	0.001	11387	95.8	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
7.059	-0.004	8623	23.17	Benzene
9.949	0.001	7882	23.18	Toluene
12.852	0.001	7016	24.13	Ethylbenzene
13.014	0.001	15153	46.99	M/P-Xylene
13.972	0.001	6118	24.25	O-Xylene
4.536	-0.003	2599	22.54	MTBE

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

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a015.d

Date: 06-MAY-2011 12:53

Client ID:

Sample Info: BCAL 2

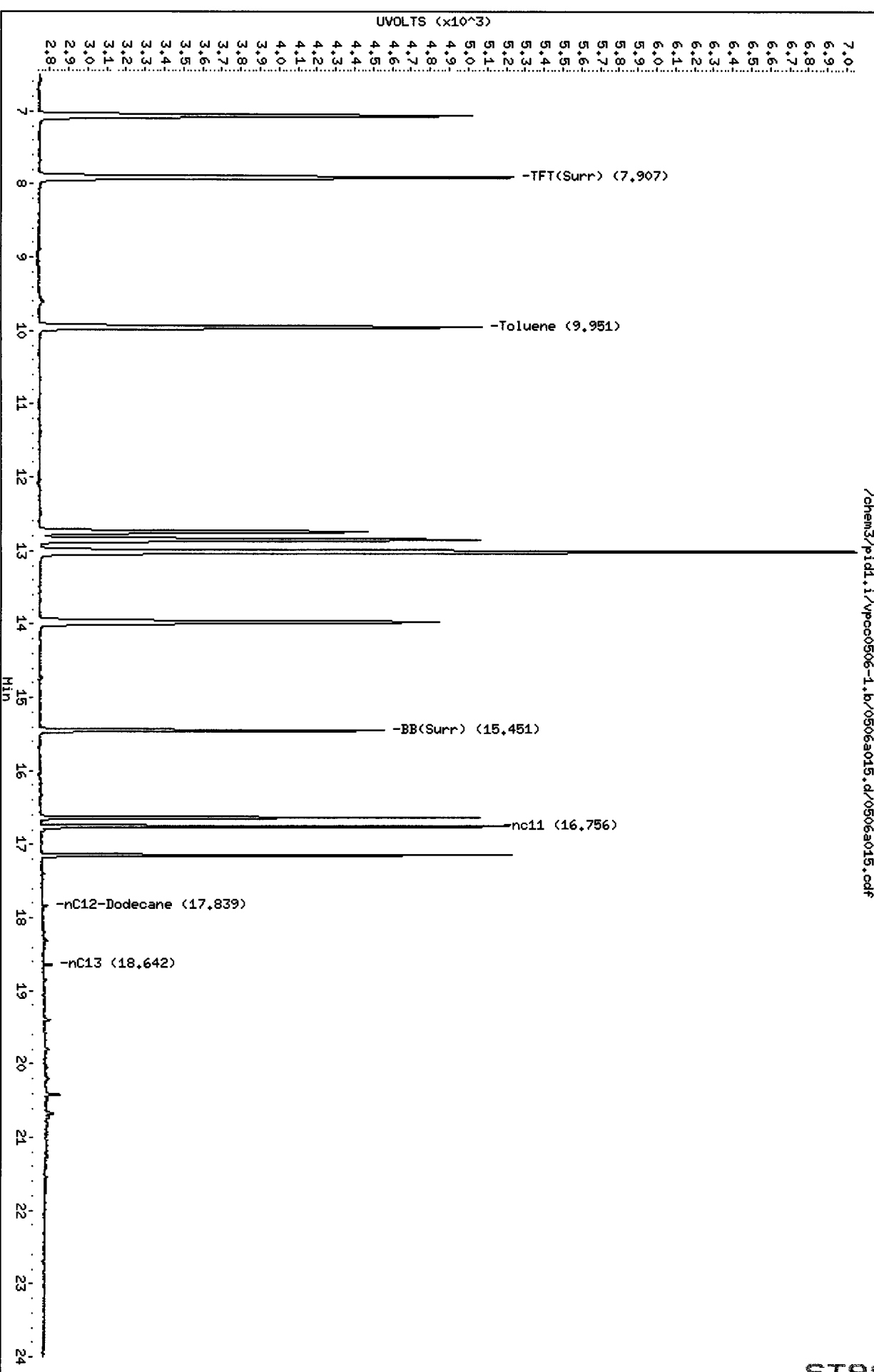
Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

/chem3/pid1.i/vpcc0506-1.b/0506a015.d/0506a015.cdf



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a015.d

Date: 06-MAY-2011 12:53

Client ID:

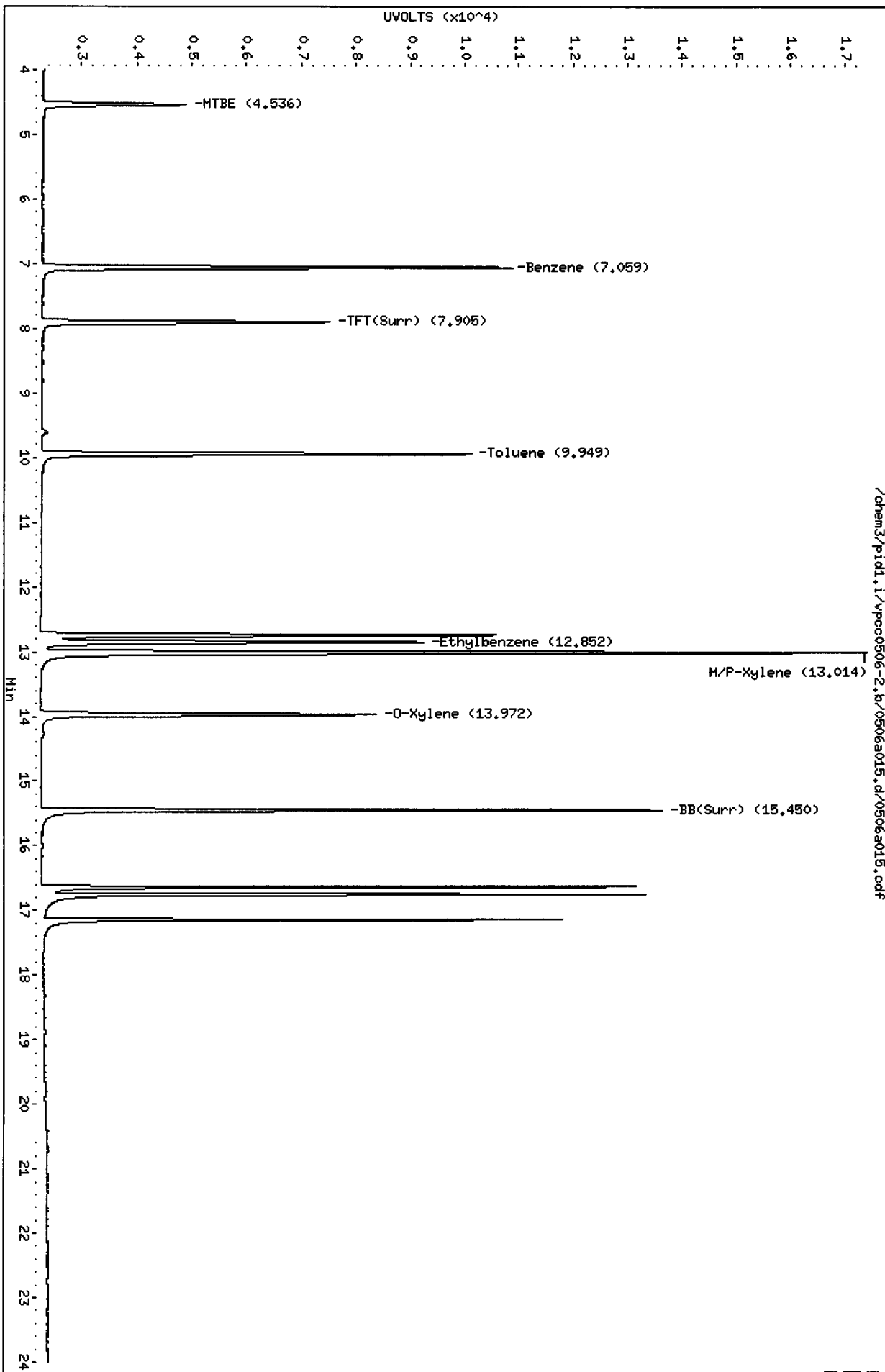
Sample Info: BCAL 2

Instrument: pid1.i

Page 1

Column phase: RTX 502-2 PID

Operator: MH
Column diameter: 0.18



/chem3/pid1.i/vpcc0506-2.b/0506a015.d/0506a015.cdf

MH
5/9/11

Analytical Resources Inc.
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a016.d ARI ID: GCAL 2
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a016.d Client ID:
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m Injection Date: 06-MAY-2011 13:22
Instrument: pid1.i Matrix: WATER
Gas Ical Date: 05-MAY-2011 Dilution Factor: 1.000
BETX Ical Date: 05-MAY-2011

FID Surrogates

RT	Shift	Height	Area	%Rec	Compound
--	-----	-----	----	----	-----
7.908	0.001	2834	48653	108.6	TFT(Surr)
15.451	0.001	1937	17527	102.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 (9.85 to 17.94)	319505	795463	2.490 M
8015B 2MP-TMB (4.17 to 16.26)	652210	1612176	2.472 M
AK101 nC6-nC10 (4.68 to 15.16)	527526	1295895	2.457 M
NWTPHG Tol-Nap (9.85 to 18.95)	340084	837278	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
--	-----	-----	----	-----
7.906	0.002	5728	102.3	TFT(Surr)
15.450	0.001	12013	101.0	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	----	-----
7.068	0.004	3007	8.08	Benzene
9.951	0.003	30694	90.27	Toluene
12.853	0.002	7826	26.92	Ethylbenzene
13.018	0.006	30954	95.98	M/P-Xylene
13.973	0.002	11175	44.29	O-Xylene
4.542	0.003	581	5.04	MTBE

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

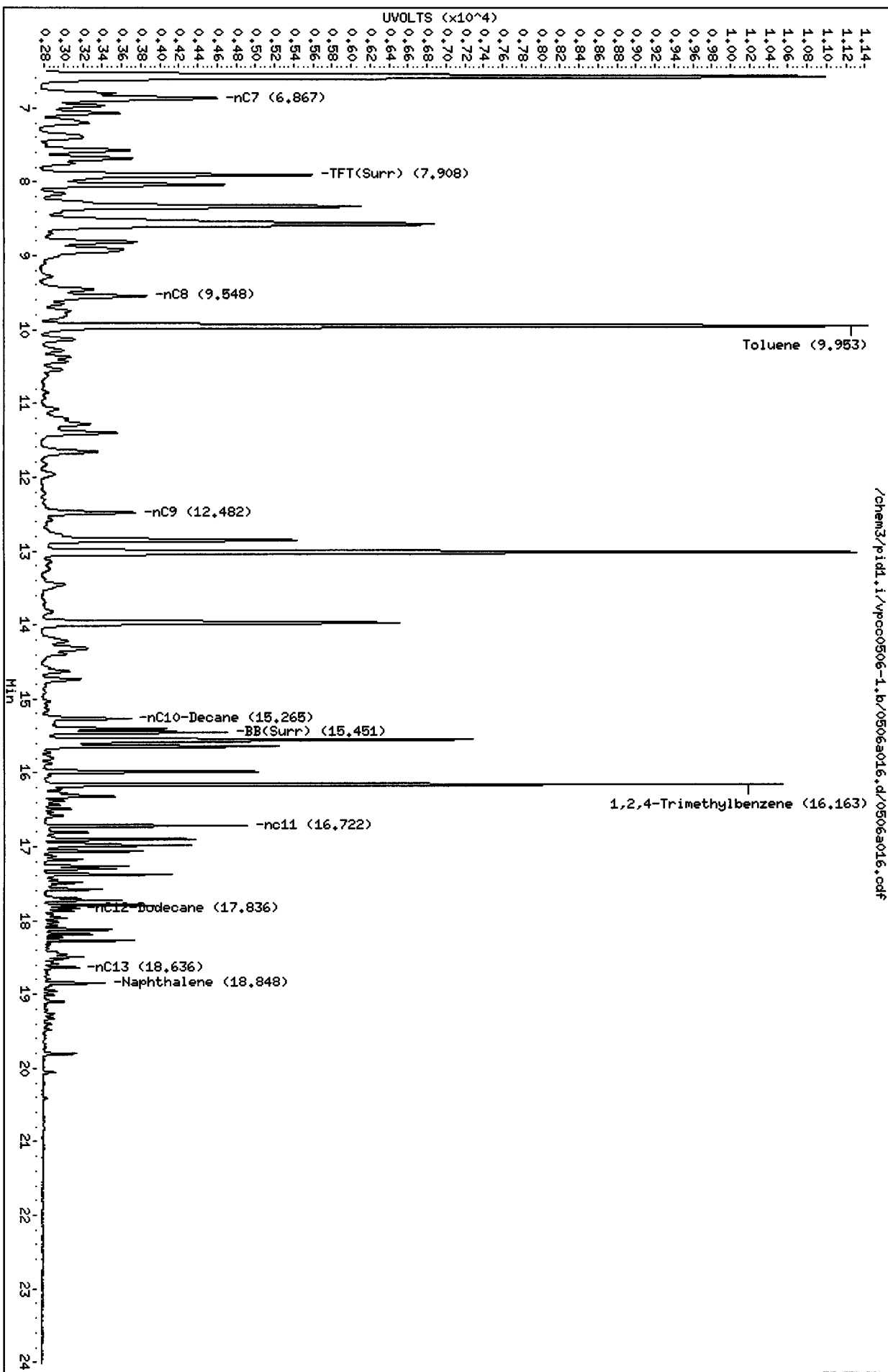
Data File: /chem3/pidd.i/vpcc0506-1.b/0506a016.d
Date: 06-MAY-2011 13:22

Client ID:
Sample Info: CCL 2

Column phase: RTX 502-2 FID

Instrument: pidd.i

Operator: HH
Column diameter: 0.18



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a016.d

Date : 06-MAY-2011 13:22

Client ID:

Sample Info: GCAL 2

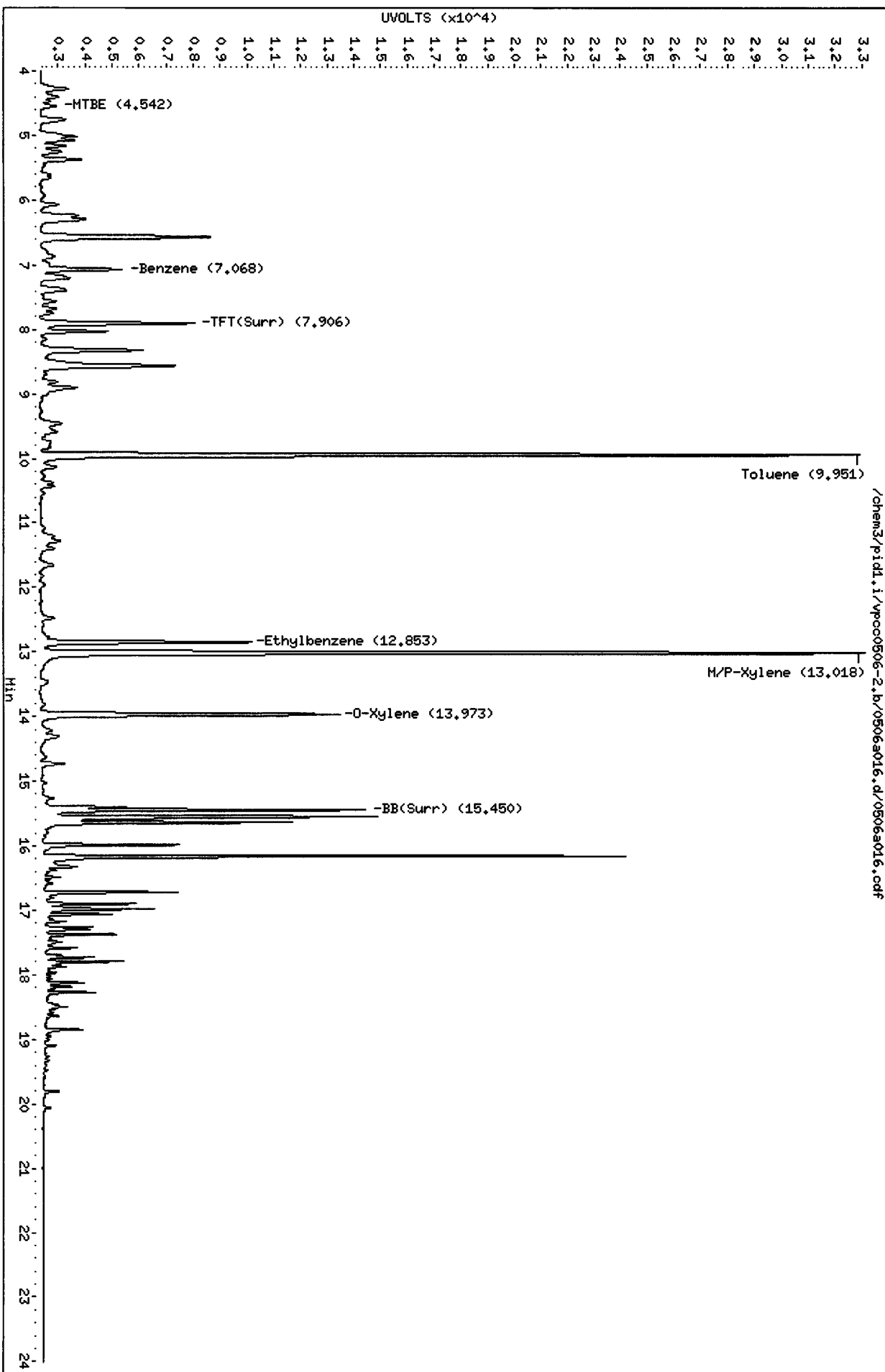
Column phase: RTX 502-2 PID

Instrument: pid1.i

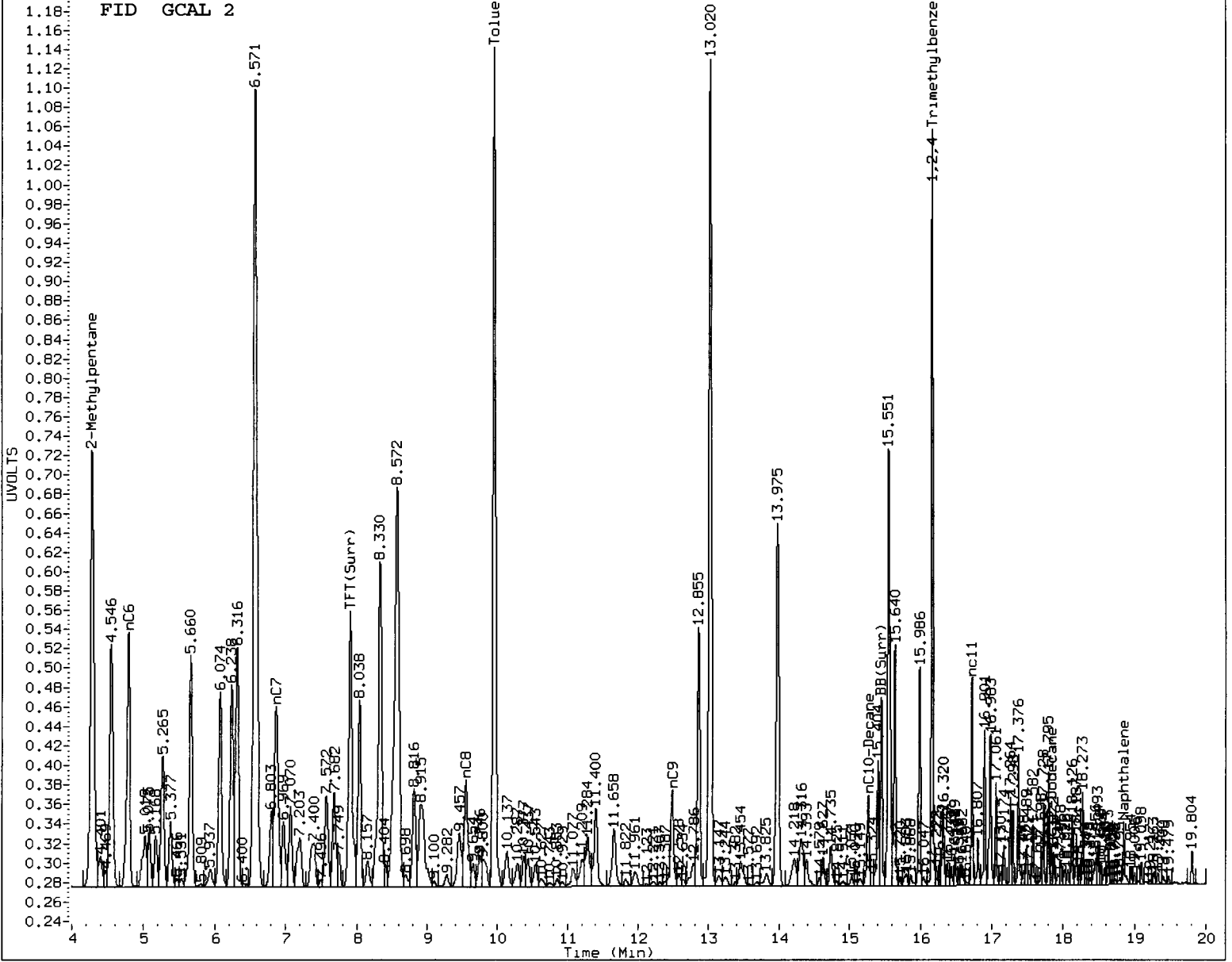
Operator: HH

Column diameter: 0.18

Page 1



ST98 : 01181



MANUAL INTEGRATION

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

Analyst: MH Date: 5/9/11

**Metals Raw Data
Preparation Bench Sheets and Notes**

ARI Job ID: ST98, SU21



Digestion Log

Analyst: KM

Date: 5/03/11

Matrix: Water Block ID: #12 Block Temp: 93°C Thermometer: MP24

ARI Sample ID	Btl #	pH<2	Prep Code: <u>REN</u>		Prep Code:		Comments	
			Initial Wt (g) Vol (mL)	Final Vol (mL)	Initial Wt (g) Vol (mL)	Final Vol (mL)		
ST98 A	9	—	50.0	25.0			- Batched Filtered in lab	
" B	9	—						
" C	9	—						
" D	23	—						
" DDUP	23	—						
" DSPK	23	—						
" MBI	—	—						
" MBISPK	—	—						
SU21 A	9	—						
" B	9	—						
" C	9	—						
" D	9	—						
" E	9	—						
" F	9	—						
SU27 A	6	✓					- Filtered in lab	
" B	6	✓						
" C	6	✓						
" MBI	—	✓						
" MBISPK	—	✓						
" D	1	—						
" E	1	—						
" F	1	—						
" MB2	—	—	✓	✓				
" MB2SPK	—	—	50.0	25.0				
				KM	5/03/11			

Chemical/Reagent ID:

HNO₃: MP2088 HCl: — H₂O₂: I6129 Tube Lot #: 1010191

**Metals Raw Data
Run Logs, Calibrations, and Raw Data**

ARI Job ID: ST98, SU21



ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 5/6/04 Analyst: AT 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			2828-5
		↓ 1			↓ -7
		2			↓ -5
		3			2829-5
		↓ 4			2829-1
		Rinse Sample			
		ICV			2819-4
		ICB			
		CCV1			
		CCB1			
		Low Check			
		ICSA			
		ICSAm			64 Ni high
		LR200			
		LR300			
		CerZ			
		CCBZ			
		SU04 A-L	REN	10	As
		↓ A.		2	↓
		E-L		10	↓
		↓ E.		2-	↓
		SU02 N.			Be
		ST73 CDup			As, Se
		↓ C.			↓



ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 5-6-11 Analyst: AT Page: 2 of 4

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		ST73 B	REN	Z	As, Se
		↓ F	↓	↓	↓
		↓ I	↓	↓	↓
		CCV3			
		CCB3			
		SW11 ADup	REN	Z	Be
		↓ A	↓	↓	↓
		↓ Aspl	↓	↓	✓
		↓ ADup	↓	↓	✓
		↓ F	↓	↓	↓
		↓ Fspl	↓	↓	✓
		↓ B	↓	↓	↓
		↓ C	↓	↓	↓
		↓ D	↓	↓	↓
		↓ G	↓	↓	↓
		CCV4			
		CCB4			
		ST77 MB	SWN	Z0	Be
		↓ MBspl	↓	↓	↓
		SW11 H	REN	Z	↓
		↓ I	↓	↓	↓
		ST89 A	↓	↓	Be or MnAs Cd & Ba
		ST77 A	SWN	Z0	Be
		↓ B	↓	↓	↓



ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 5-6-11 Analyst: AT Page: 3 of 6

All corrections made by analyst unless otherwise noted.

#5 fill

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		ST77 C	SWN	20	Be
		↓ D	↓	↓	↓
		↓ E	↓	↓	↓
		CCV5			
		CCB5			
		ST89 MB	REN	2	Cr Ag Cd Sb Ba ^{As} <u>CAF</u> Hs 0.7
		↓ MB SPL	↓	↓	Be Cr Ag Cd Sb Ba
		ST77 F	SWN	100	Cr
		↓ F	↓	20	Be
		ST89 B	REN	2	^{Be} Cr Mn Ag Cd Sb Ba
		ST65 A	↑	5	As
<u>E</u>		↓ E	↓	↓	↓
		ST98 A		2	
		↓ B	↓	↓	
<u>DIL</u>		↓ C	↓	↓	
		CCV6			
		CCB6			
		ST98 MB1	REN	2	
		↓ MB SPL	↓	↓	✓
		↓ DDup	↓	↓	✓
		↓ D	↓	↓	
		↓ D SPL	↓	↓	✓
		Suz, A			
		↓ B	↓	↓	



ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 5-6-11 Analyst: AT Page: 4 of 6

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SUZ1 C	REN	2	
		↓ D	↓	↓	
		↓ E	↓	↓	
		CCV7			
		CCB7			
		SU15 MBI	REN	2	
		↓ MBZ	↓	↓	
		↓ MB1spl	↓	↓	✓
		↓ MBZspl	↓	↓	✓
		SUZ1 F			
		SU15 A			
		↓ B	↓	↓	
		↓ C	↓	↓	
		↓ D	↓	↓	
Label	✓	↓ E	↓	↓	RR 1/50
		CCV8			
		CCB8			end pkg
		SU15 HDup	REN	2	✓
		↓ H	↓	↓	
		↓ Hspl	↓	↓	✓
		↓ PDup	↓	↓	✓ 712 Diff
		↓ P	↓	↓	CAF
		↓ Psolc	↓	↓	✓
	✓	↓ F	↓	↓	RR 1/50

Metals Data Review Checklist

Method: ICP ICP-MS GFA CVA

Analysis Date: 5-6-11

	Analyst	Peer	Comment
Logbook	<u>A 5-9</u>	<u>JP 5.9.11</u>	
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	✓	✓	
Internal Standards	✓	✓	see log
Carry-over	/	✓	
Method QC			
CRI/CRA	✓	✓	
ICSA/ICSAB	/	✓	see log
Post Spikes/Serial Dilutions	✓	/	5104
Analytic Spikes	—	—	
Matrix QC			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	
Matrix Duplicates	✓	✓	5115
Method Blanks	/	/	5789
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	✓	✓	CAF 5115 5789

Instrument Tuning Report

File Name: 2008.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	9.075	2041	2163	0.728	
Mg	23.985	23.929	5648	2275	0.719	
Co	58.933	58.928	14148	2544	0.688	
In	114.904	114.878	27762	2995	0.693	
Pb	207.977	207.976	50424	3749	0.710	

Instrument Tuning Report

File Name: 2008.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	8.875	2009	2163	0.744	
Mg	23.985	24.029	5658	2275	0.704	
Co	58.933	58.929	14146	2544	0.684	
In	114.904	114.928	27767	2995	0.686	
Pb	207.977	207.976	50423	3749	0.708	

300

Instrument Tuning Report

File Name: 2008.tun
File Path: c:\elandata\Tuning

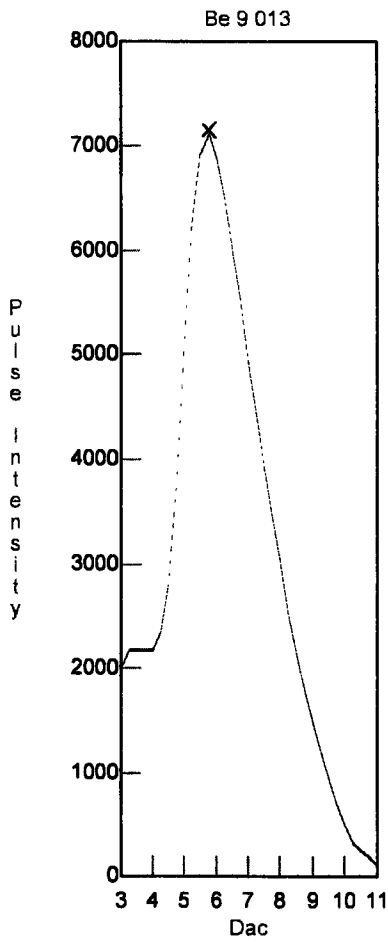
Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	9.076	2023	2168	0.690	
Mg	23.985	23.929	5644	2275	0.694	
Co	58.933	58.929	14144	2544	0.681	
In	114.904	114.928	27772	2995	0.679	
Pb	207.977	207.976	50422	3749	0.705	

4/4

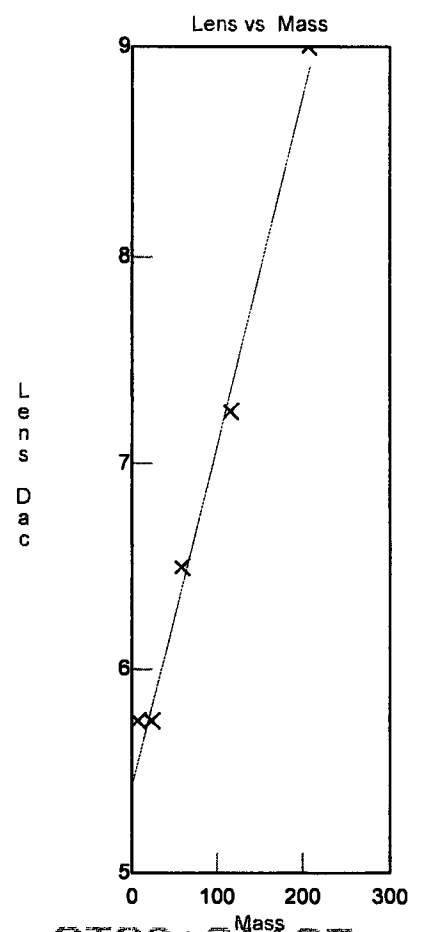
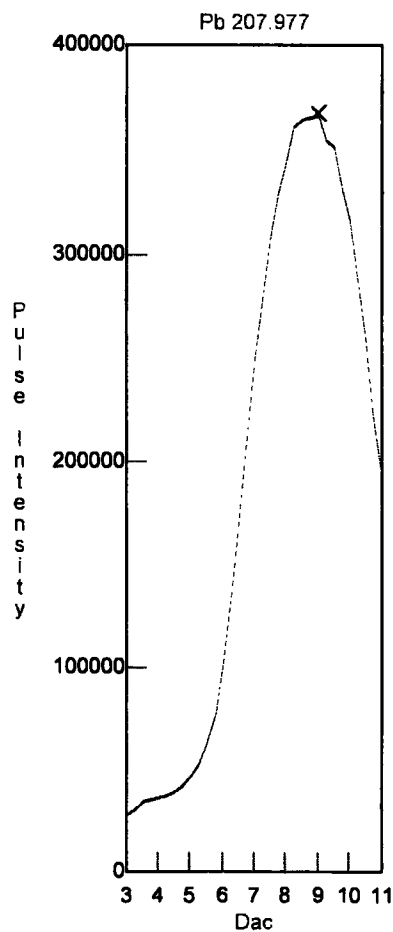
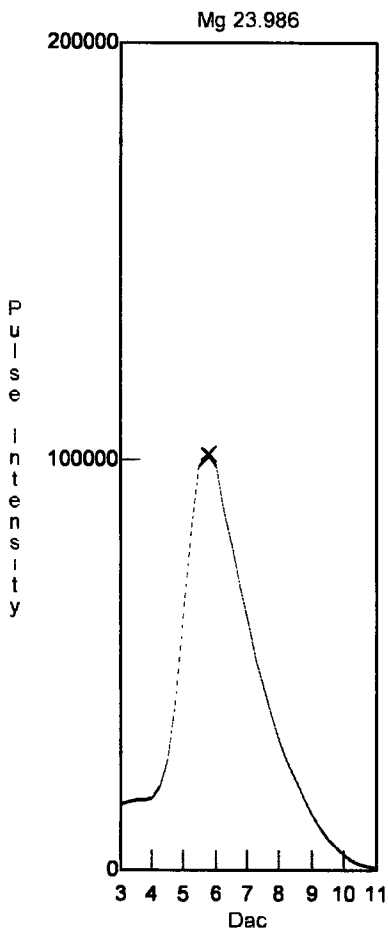
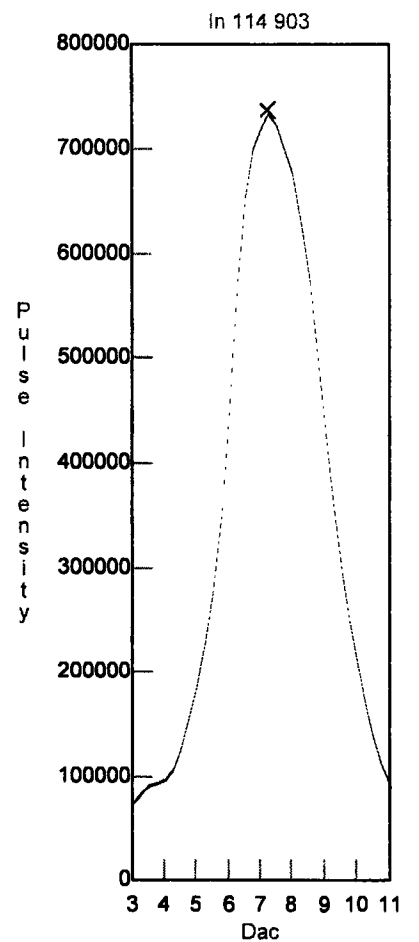
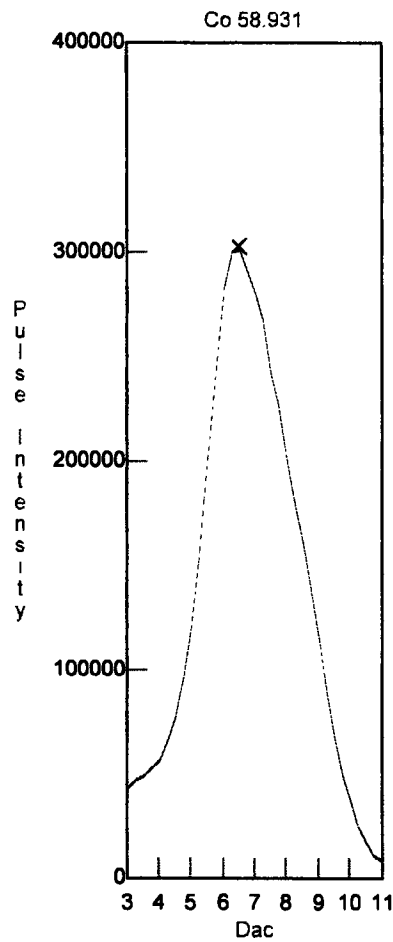
Instrument Tuning Report

File Name: 2008.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	9.025	2025	2168	0.695	
Mg	23.985	24.029	5654	2275	0.695	
Co	58.933	58.929	14142	2544	0.685	
In	114.904	114.878	27765	2995	0.678	
Pb	207.977	207.976	50421	3749	0.704	



576-4



Daily Performance Report

Sample ID: Sample

Sample Date/Time: Friday, May 06, 2011 08:31:57

Sample Description:

Sample File: 1120.sam

Method File: c:\elandata\Method\aridailyperf.mth

Dataset File: c:\elandata\Dataset\daily performance\Sample.7530

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Number of Replicates: 5

Dual Detector Mode: Pulse

D. 96

Summary

Analyte	Mass	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Mg	24	67070.865	417.219	0.622
In	115	554757.715	6576.320	1.185
Pb	208	285681.565	2103.420	0.736
[> Ba	138	404731.328	3086.265	0.763
[Ba++	69	0.014	0.000	2.687
[> Ce	140	481778.830	4434.490	0.920
[CeO	156	0.027	0.001	2.482
Bkgd	220	6.001	3.469	57.810

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 08:59:32

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>	Li	6		ug/L				483935	0
[	Be	9		ug/L				3	21
	C	13		mg/L				4400	0
	Cl	37		mg/L				2975540	0
[>	Sc	45		ug/L				341467	0
|	V-1	51		ug/L				3084	4
|	V	51		ug/L				1073	7
|	Cr	52		ug/L				9261	0
|	Cr	53		ug/L				403	4
|	Mn	55		ug/L				325	4
[	Co	59		ug/L				45	24
[>	Ge	72		ug/L				509437	0
|	Ni	60		ug/L				52	27
|	Ni	62		ug/L				74	6
|	Cu	63		ug/L				202	6
|	Cu	65		ug/L				104	5
|	Zn	66		ug/L				1041	22
|	Zn	67		ug/L				189	13
|	Zn	68		ug/L				10219	0
|	As-1	75		ug/L				-97	13
|	As	75		ug/L				11864	0
|	Se	82		ug/L				9	88
|	Se	78		ug/L				12167	0
[	Mo	98		ug/L				548	4
	Y	89		ug/L				375211	0
	Kr	83		ug/L				87	5
[>	In	115		ug/L				546264	1
|	Ag	107		ug/L				46	10
|	Cd	111		ug/L				251	7
|	Cd	114		ug/L				14	19
|	Sb	121		ug/L				50	15
|	Sb	123		ug/L				33	4
|	Ba	135		ug/L				13	15
[	Ba	137		ug/L				17	51
[>	Tb	159		ug/L				525338	1
|	Tl	205		ug/L				41	16
|	Pb	208		ug/L				298	14
|	Bi	209		ug/L				449045	0
|	Th	232		ug/L				195	16
[	U	238		ug/L				30	16

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 09:07:19

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	472979	0
[Be	9	10.000	ug/L	0.131	1	3	5082	0
C	13		mg/L			4400	5100	0
Cl	37		mg/L			2975540	2973685	0
> Sc	45		ug/L			341467	331587	0
V-1	51	10.000	ug/L	0.179	1	3084	161068	1
V	51	10.000	ug/L	0.142	1	1073	163542	1
Cr	52	10.000	ug/L	0.058	0	9261	150383	0
Cr	53	10.000	ug/L	0.160	1	403	17784	1
Mn	55	10.000	ug/L	0.179	1	325	242516	1
Co	59	10.000	ug/L	0.018	0	45	193528	0
> Ge	72		ug/L			509437	496774	0
Ni	60	10.000	ug/L	0.040	0	52	42016	0
Ni	62	10.000	ug/L	0.091	0	74	6482	1
Cu	63	10.000	ug/L	0.135	1	202	98525	0
Cu	65	10.000	ug/L	0.192	1	104	47828	1
Zn	66	10.000	ug/L	0.096	0	1041	32545	1
Zn	67	10.000	ug/L	0.149	1	189	5528	1
Zn	68	10.000	ug/L	0.031	0	10219	32754	0
As-1	75	10.000	ug/L	0.063	0	-97	26910	0
As	75	10.000	ug/L	0.087	0	11864	39054	0
Se	82	10.000	ug/L	0.064	0	9	2798	0
Se	78	10.000	ug/L	0.142	1	12167	19416	0
Mo	98	10.000	ug/L	0.067	0	548	89138	0
Y	89		ug/L			375211	367772	0
Kr	83		ug/L			87	81	5
> In	115		ug/L			546264	537662	0
Ag	107	10.000	ug/L	0.114	1	46	177581	0
Cd	111	10.000	ug/L	0.103	1	251	43444	1
Cd	114	10.000	ug/L	0.064	0	14	103827	0
Sb	121	10.000	ug/L	0.024	0	50	147577	0
Sb	123	10.000	ug/L	0.047	0	33	111429	0
Ba	135	10.000	ug/L	0.069	0	13	34292	0
Ba	137	10.000	ug/L	0.060	0	17	58537	0
> Tb	159		ug/L			525338	513419	1
Ti	205	10.000	ug/L	0.092	0	41	374615	0
Pb	208	10.000	ug/L	0.144	1	298	517288	0
Bi	209		ug/L			449045	437130	1
Th	232	10.000	ug/L	0.266	2	195	621906	0
U	238	10.000	ug/L	0.096	0	30	695910	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 09:15:07

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	472774	1
[Be	9	20.175	ug/L	0.360	1	3	10617	0
C	13		mg/L			4400	5633	0
Cl	37		mg/L			2975540	3009714	0
> Sc	45		ug/L			341467	339143	0
V-1	51	19.992	ug/L	0.093	0	3084	325739	0
V	51	19.963	ug/L	0.070	0	1073	330414	0
Cr	52	19.992	ug/L	0.217	1	9261	297844	0
Cr	53	19.905	ug/L	0.118	0	403	35151	0
Mn	55	20.012	ug/L	0.181	0	325	497203	0
Co	59	19.961	ug/L	0.204	1	45	391944	0
> Ge	72		ug/L			509437	502204	0
Ni	60	20.006	ug/L	0.121	0	52	85035	0
Ni	62	20.025	ug/L	0.275	1	74	13114	0
Cu	63	19.998	ug/L	0.183	0	202	198935	0
Cu	65	19.972	ug/L	0.194	0	104	95929	0
Zn	66	19.957	ug/L	0.041	0	1041	64091	0
Zn	67	19.975	ug/L	0.227	1	189	10923	1
Zn	68	19.942	ug/L	0.191	0	10219	55491	0
As-1	75	19.979	ug/L	0.161	0	-97	54220	1
As	75	19.955	ug/L	0.200	1	11864	66657	1
Se	82	19.963	ug/L	0.188	0	9	5597	1
Se	78	19.884	ug/L	0.172	0	12167	26831	0
Mo	98	19.975	ug/L	0.096	0	548	178571	0
Y	89		ug/L			375211	366704	0
Kr	83		ug/L			87	87	6
> In	115		ug/L			546264	533938	0
Ag	107	20.093	ug/L	0.322	1	46	360982	1
Cd	111	20.121	ug/L	0.161	0	251	88709	0
Cd	114	20.050	ug/L	0.050	0	14	208797	0
Sb	121	20.078	ug/L	0.094	0	50	298872	0
Sb	123	20.075	ug/L	0.177	0	33	225508	0
Ba	135	20.088	ug/L	0.019	0	13	69623	0
Ba	137	20.093	ug/L	0.033	0	17	118991	0
> Tb	159		ug/L			525338	513313	1
Tl	205	20.014	ug/L	0.175	0	41	751788	0
Pb	208	20.018	ug/L	0.112	0	298	1038930	0
Bi	209		ug/L			449045	438865	0
Th	232	20.117	ug/L	0.239	1	195	1280801	0
U	238	20.040	ug/L	0.033	0	30	1405848	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 09:22:55

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	476777	0
[Be	9	49.930	ug/L	0.437	0	3	26315	0
C	13		mg/L			4400	5174	0
Cl	37		mg/L			2975540	3022294	0
> Sc	45		ug/L			341467	337720	1
V-1	51	50.083	ug/L	0.915	1	3084	814634	0
V	51	50.071	ug/L	1.054	2	1073	829372	0
Cr	52	49.973	ug/L	1.046	2	9261	725675	1
Cr	53	49.943	ug/L	0.870	1	403	86714	0
Mn	55	49.852	ug/L	0.773	1	325	1214786	0
[Co	59	49.964	ug/L	1.150	2	45	973176	0
> Ge	72		ug/L			509437	500332	0
Ni	60	49.831	ug/L	0.260	0	52	207434	0
Ni	62	49.836	ug/L	0.354	0	74	31889	0
Cu	63	49.770	ug/L	0.508	1	202	481879	0
Cu	65	49.857	ug/L	0.151	0	104	235083	0
Zn	66	49.855	ug/L	0.236	0	1041	155740	0
Zn	67	49.941	ug/L	0.628	1	189	26773	1
Zn	68	49.802	ug/L	0.186	0	10219	120843	0
As-1	75	50.002	ug/L	0.427	0	-97	135356	0
As	75	49.988	ug/L	0.395	0	11864	148653	0
Se	82	49.913	ug/L	0.600	1	9	13808	0
Se	78	49.870	ug/L	0.396	0	12167	48542	0
[Mo	98	49.962	ug/L	0.754	1	548	442486	1
Y	89		ug/L			375211	362842	0
Kr	83		ug/L			87	87	0
> In	115		ug/L			546264	538083	1
Ag	107	49.752	ug/L	0.654	1	46	878824	0
Cd	111	49.877	ug/L	0.253	0	251	218538	0
Cd	114	49.898	ug/L	0.657	1	14	518302	0
Sb	121	50.010	ug/L	0.532	1	50	750865	0
Sb	123	49.983	ug/L	0.429	0	33	564831	0
Ba	135	49.965	ug/L	1.132	2	13	173860	1
[Ba	137	49.926	ug/L	1.003	2	17	295714	1
> Tb	159		ug/L			525338	508344	0
Tl	205	49.966	ug/L	0.274	0	41	1852417	0
Pb	208	49.996	ug/L	0.481	0	298	2568283	0
Bi	209		ug/L			449045	432301	0
Th	232	50.574	ug/L	0.520	1	195	3382928	0
[U	238	50.505	ug/L	0.260	0	30	3695358	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 09:30:45

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	466623	0
[Be	9	100.003	ug/L	0.054	0	3	51585	0
C	13		mg/L			4400	5783	1
Cl	37		mg/L			2975540	3107518	0
> Sc	45		ug/L			341467	340734	0
V-1	51	99.907	ug/L	0.275	0	3084	1631767	0
V	51	99.955	ug/L	0.246	0	1073	1667264	0
Cr	52	99.735	ug/L	1.004	1	9261	1439517	0
Cr	53	99.896	ug/L	1.325	1	403	174017	0
Mn	55	100.368	ug/L	1.873	1	325	2498177	1
[Co	59	99.341	ug/L	0.902	0	45	1910645	0
> Ge	72		ug/L			509437	505884	0
Ni	60	99.405	ug/L	1.030	1	52	410204	1
Ni	62	99.538	ug/L	0.751	0	74	63349	0
Cu	63	99.255	ug/L	0.568	0	202	947935	0
Cu	65	99.263	ug/L	0.477	0	104	461789	0
Zn	66	99.307	ug/L	0.270	0	1041	305604	0
Zn	67	99.550	ug/L	0.461	0	189	52982	0
Zn	68	99.354	ug/L	0.259	0	10219	228948	0
As-1	75	99.803	ug/L	0.280	0	-97	271481	0
As	75	99.789	ug/L	0.194	0	11864	286376	0
Se	82	99.398	ug/L	0.651	0	9	27248	0
Se	78	99.376	ug/L	0.747	0	12167	84308	0
[Mo	98	99.743	ug/L	0.231	0	548	885092	0
Y	89		ug/L			375211	362192	0
Kr	83		ug/L			87	103	4
> In	115		ug/L			546264	539005	0
Ag	107	99.525	ug/L	1.539	1	46	1733541	0
Cd	111	99.501	ug/L	0.250	0	251	429336	0
Cd	114	99.760	ug/L	2.197	2	14	1029747	1
Sb	121	99.824	ug/L	1.117	1	50	1492531	0
Sb	123	99.928	ug/L	1.093	1	33	1128376	0
Ba	135	100.084	ug/L	1.364	1	13	349848	0
[Ba	137	99.856	ug/L	2.054	2	17	589617	1
> Tb	159		ug/L			525338	504759	0
Tl	205	101.063	ug/L	0.322	0	41	3857019	0
Pb	208	100.434	ug/L	0.121	0	298	5197802	0
Bi	209		ug/L			449045	428326	0
Th	232	100.225	ug/L	0.297	0	195	6707037	0
[U	238	100.343	ug/L	0.526	0	30	7374212	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: Rinse Sample

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 09:38:18

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	488607	1
[Be	9	0.001	ug/L	0.001	83	3	4	17
C	13		mg/L			4400	4596	1
Cl	37		mg/L			2975540	3141235	0
> Sc	45		ug/L			341467	353692	0
V-1	51	-0.000	ug/L	0.007	1584	3084	3188	3
V	51	-0.005	ug/L	0.003	70	1073	1032	5
Cr	52	-0.002	ug/L	0.003	161	9261	9564	0
Cr	53	-0.015	ug/L	0.021	145	403	391	9
Mn	55	0.002	ug/L	0.001	57	325	377	6
Co	59	0.003	ug/L	0.000	10	45	110	6
> Ge	72		ug/L			509437	522367	0
Ni	60	0.001	ug/L	0.001	138	52	57	9
Ni	62	0.024	ug/L	0.009	36	74	91	5
Cu	63	0.002	ug/L	0.002	70	202	229	5
Cu	65	0.005	ug/L	0.001	19	104	130	3
Zn	66	-0.257	ug/L	0.002	0	1041	253	3
Zn	67	-0.213	ug/L	0.017	8	189	77	12
Zn	68	-0.297	ug/L	0.067	22	10219	9801	0
As-1	75	-0.009	ug/L	0.007	75	-97	-125	15
As	75	0.045	ug/L	0.054	119	11864	12293	0
Se	82	0.001	ug/L	0.015	1374	9	10	41
Se	78	0.179	ug/L	0.212	118	12167	12609	0
Mo	98	-0.027	ug/L	0.002	7	548	320	5
Y	89		ug/L			375211	380684	0
Kr	83		ug/L			87	81	1
> In	115		ug/L			546264	570976	0
Ag	107	0.013	ug/L	0.001	7	46	285	6
Cd	111	0.009	ug/L	0.003	33	251	305	4
Cd	114	0.003	ug/L	0.001	24	14	43	15
Sb	121	0.055	ug/L	0.008	15	50	920	13
Sb	123	0.057	ug/L	0.003	5	33	713	4
Ba	135	0.004	ug/L	0.001	17	13	27	7
Ba	137	0.004	ug/L	0.001	16	17	45	10
> Tb	159		ug/L			525338	531191	0
Ti	205	0.005	ug/L	0.000	4	41	227	3
Pb	208	0.005	ug/L	0.001	25	298	547	11
Bi	209		ug/L			449045	461216	1
Th	232	0.047	ug/L	0.004	8	195	3502	8
U	238	0.006	ug/L	0.001	18	30	480	16

Quantitative Analysis - Calibration Report

Sample Date/Time: Friday, May 06, 2011 09:30:45

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldat\050611.cal

Analyte	Mass	r Corr Coeff	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
Li	6							
Be	9	1.0000	0.0011	10	20	50	100	
C	13							
Cl	37							
Sc	45							
V-1	51	1.0000	0.0478	10	20	50	100	
V	51	1.0000	0.0489	10	20	50	100	
Cr	52	1.0000	0.0421	10	20	50	100	
Cr	53	1.0000	0.0051	10	20	50	100	
Mn	55	1.0000	0.0730	10	20	50	100	
Co	59	0.9999	0.0564	10	20	50	100	
Ge	72							
Ni	60	0.9999	0.0082	10	20	50	100	
Ni	62	1.0000	0.0013	10	20	50	100	
Cu	63	0.9999	0.0189	10	20	50	100	
Cu	65	0.9999	0.0092	10	20	50	100	
Zn	66	0.9999	0.0061	10	20	50	100	
Zn	67	1.0000	0.0010	10	20	50	100	
Zn	68	0.9999	0.0044	10	20	50	100	
As-1	75	1.0000	0.0054	10	20	50	100	
As	75	1.0000	0.0054	10	20	50	100	
Se	82	0.9999	0.0005	10	20	50	100	
Se	78	0.9999	0.0014	10	20	50	100	
Mo	98	1.0000	0.0175	10	20	50	100	
Y	89							
Kr	83							
In	115							
Ag	107	0.9999	0.0323	10	20	50	100	
Cd	111	1.0000	0.0080	10	20	50	100	
Cd	114	1.0000	0.0192	10	20	50	100	
Sb	121	1.0000	0.0277	10	20	50	100	
Sb	123	1.0000	0.0210	10	20	50	100	
Ba	135	1.0000	0.0065	10	20	50	100	
Ba	137	1.0000	0.0110	10	20	50	100	
Tb	159							
Tl	205	0.9998	0.0756	10	20	50	100	
Pb	208	1.0000	0.1025	10	20	50	100	
Bi	209							
Th	232	0.9999	0.1326	10	20	50	100	
U	238	0.9999	0.1456	10	20	50	100	

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICV

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 09:45:33

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	482425	1
[Be	9	49.741	ug/L	0.262	0	3	26527	1
C	13		mg/L			4400	6643	1
Cl	37		mg/L			2975540	3104050	0
> Sc	45		ug/L			341467	348544	0
V-1	51	50.006	ug/L	0.222	0	3084	837023	0
V	51	50.097	ug/L	0.189	0	1073	855321	0
Cr	52	50.152	ug/L	0.409	0	9261	745165	0
Cr	53	50.421	ug/L	0.252	0	403	90055	1
Mn	55	49.103	ug/L	0.046	0	325	1250457	0
[Co	59	51.023	ug/L	0.235	0	45	1003875	0
> Ge	72		ug/L			509437	513739	0
Ni	60	51.451	ug/L	0.482	0	52	215643	1
Ni	62	50.352	ug/L	0.395	0	74	32581	0
Cu	63	50.934	ug/L	0.279	0	202	494108	0
Cu	65	51.460	ug/L	0.758	1	104	243172	1
Zn	66	50.057	ug/L	0.245	0	1041	156955	0
Zn	67	50.545	ug/L	0.371	0	189	27413	0
Zn	68	50.430	ug/L	0.462	0	10219	123088	1
As-1	75	49.355	ug/L	0.067	0	-97	136291	0
As	75	49.644	ug/L	0.043	0	11864	150693	0
Se	82	79.261	ug/L	0.264	0	9	22067	0
Se	78	79.097	ug/L	0.094	0	12167	70650	0
[Mo	98	49.733	ug/L	0.352	0	548	448438	0
Y	89		ug/L			375211	372638	0
Kr	83		ug/L			87	99	10
> In	115		ug/L			546264	558703	0
Ag	107	49.130	ug/L	0.510	1	46	887076	0
Cd	111	49.523	ug/L	0.381	0	251	221639	1
Cd	114	49.648	ug/L	0.362	0	14	531256	0
Sb	121	48.818	ug/L	0.079	0	50	756653	0
Sb	123	48.880	ug/L	0.220	0	33	572155	0
Ba	135	49.563	ug/L	0.575	1	13	179588	0
[Ba	137	49.782	ug/L	0.302	0	17	304723	0
> Tb	159		ug/L			525338	521183	1
Tl	205	48.044	ug/L	0.632	1	41	1893006	0
Pb	208	48.882	ug/L	0.626	1	298	2611951	0
Bi	209		ug/L			449045	447307	0
Th	232	51.003	ug/L	0.732	1	195	3523800	0
[U	238	49.416	ug/L	0.697	1	30	3749326	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICB

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 09:52:47

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	480391	1
[Be	9	0.006	ug/L	0.002	42	3	6	20
C	13		mg/L			4400	4677	2
Cl	37		mg/L			2975540	3166633	0
> Sc	45		ug/L			341467	353331	0
V-1	51	-0.005	ug/L	0.005	113	3084	3115	2
V	51	-0.008	ug/L	0.002	20	1073	969	2
Cr	52	0.000	ug/L	0.016	37602	9261	9582	1
Cr	53	-0.011	ug/L	0.002	16	403	396	0
Mn	55	0.001	ug/L	0.000	62	325	355	2
Co	59	0.003	ug/L	0.000	15	45	96	7
> Ge	72		ug/L			509437	524637	0
Ni	60	0.001	ug/L	0.001	88	52	60	9
Ni	62	0.009	ug/L	0.012	124	74	82	9
Cu	63	0.002	ug/L	0.002	152	202	225	10
Cu	65	0.004	ug/L	0.002	40	104	126	6
Zn	66	-0.259	ug/L	0.012	4	1041	247	15
Zn	67	-0.220	ug/L	0.012	5	189	73	8
Zn	68	-0.315	ug/L	0.040	12	10219	9804	1
As-1	75	-0.010	ug/L	0.018	175	-97	-128	38
As	75	-0.001	ug/L	0.044	3282	11864	12214	0
Se	82	0.013	ug/L	0.027	209	9	13	55
Se	78	0.014	ug/L	0.151	1107	12167	12540	0
Mo	98	-0.039	ug/L	0.003	8	548	210	13
Y	89		ug/L			375211	379424	0
Kr	83		ug/L			87	80	5
> In	115		ug/L			546264	570606	0
Ag	107	0.010	ug/L	0.002	21	46	227	16
Cd	111	0.009	ug/L	0.005	52	251	305	7
Cd	114	0.002	ug/L	0.001	41	14	37	24
Sb	121	0.020	ug/L	0.001	4	50	372	4
Sb	123	0.019	ug/L	0.002	10	33	265	8
Ba	135	0.003	ug/L	0.001	28	13	24	11
Ba	137	0.003	ug/L	0.001	30	17	36	15
> Tb	159		ug/L			525338	526655	0
Tl	205	0.003	ug/L	0.001	25	41	167	18
Pb	208	0.003	ug/L	0.001	19	298	464	6
Bi	209		ug/L			449045	456300	0
Th	232	0.027	ug/L	0.000	1	195	2107	0
U	238	0.004	ug/L	0.001	15	30	315	13

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 10:00:00

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	468453	0
[Be	9	50.398	ug/L	0.595	1	3	26099	0
C	13		mg/L			4400	2443	2
Cl	37		mg/L			2975540	3135704	0
> Sc	45		ug/L			341467	344909	0
V-1	51	49.685	ug/L	0.190	0	3084	823015	0
V	51	49.791	ug/L	0.088	0	1073	841254	0
Cr	52	49.612	ug/L	0.516	1	9261	729533	0
Cr	53	49.941	ug/L	0.321	0	403	88269	0
Mn	55	49.273	ug/L	0.623	1	325	1241633	0
[Co	59	49.741	ug/L	0.043	0	45	968457	0
> Ge	72		ug/L			509437	508051	0
Ni	60	50.672	ug/L	0.506	0	52	210020	1
Ni	62	50.455	ug/L	0.707	1	74	32283	0
Cu	63	51.016	ug/L	0.734	1	202	489375	0
Cu	65	50.560	ug/L	0.406	0	104	236264	0
Zn	66	50.359	ug/L	0.642	1	1041	156136	0
Zn	67	50.216	ug/L	0.485	0	189	26933	0
Zn	68	50.425	ug/L	1.014	2	10219	121701	0
As-1	75	49.667	ug/L	0.567	1	-97	135626	0
As	75	49.787	ug/L	0.440	0	11864	149415	0
Se	82	50.246	ug/L	0.720	1	9	13836	0
Se	78	50.694	ug/L	0.233	0	12167	49135	0
[Mo	98	49.972	ug/L	0.736	1	548	445567	0
Y	89		ug/L			375211	363609	0
Kr	83		ug/L			87	99	3
> In	115		ug/L			546264	546439	0
Ag	107	50.869	ug/L	0.426	0	46	898354	0
Cd	111	50.653	ug/L	0.196	0	251	221703	0
Cd	114	50.365	ug/L	0.233	0	14	527113	0
Sb	121	49.197	ug/L	0.388	0	50	745784	0
Sb	123	49.397	ug/L	0.726	1	33	565524	1
Ba	135	49.964	ug/L	0.386	0	13	177074	0
[Ba	137	50.082	ug/L	0.723	1	17	299830	1
> Tb	159		ug/L			525338	508539	1
Tl	205	48.006	ug/L	0.568	1	41	1845751	0
Pb	208	49.247	ug/L	0.607	1	298	2567714	0
Bi	209		ug/L			449045	436760	0
Th	232	50.599	ug/L	0.526	1	195	3411392	0
[U	238	51.157	ug/L	0.753	1	30	3787373	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB1

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 10:07:13

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	476132	0
[Be	9	0.003	ug/L	0.007	292	3	4	83
C	13		mg/L			4400	4603	0
Cl	37		mg/L			2975540	3196159	0
> Sc	45		ug/L			341467	355849	0
V-1	51	-0.004	ug/L	0.004	105	3084	3152	2
V	51	-0.006	ug/L	0.001	16	1073	1011	1
Cr	52	-0.011	ug/L	0.003	30	9261	9486	0
Cr	53	-0.018	ug/L	0.008	46	403	387	3
Mn	55	0.001	ug/L	0.000	16	325	378	2
[Co	59	0.003	ug/L	0.001	43	45	101	24
> Ge	72		ug/L			509437	525786	0
Ni	60	0.002	ug/L	0.003	180	52	60	20
Ni	62	0.018	ug/L	0.010	53	74	88	7
Cu	63	0.002	ug/L	0.002	99	202	233	10
Cu	65	0.005	ug/L	0.003	52	104	132	9
Zn	66	-0.259	ug/L	0.011	4	1041	250	13
Zn	67	-0.214	ug/L	0.010	4	189	77	7
Zn	68	-0.292	ug/L	0.078	26	10219	9877	1
As-1	75	-0.009	ug/L	0.004	43	-97	-125	8
As	75	0.002	ug/L	0.018	1147	11864	12249	0
Se	82	-0.018	ug/L	0.010	59	9	5	58
Se	78	0.012	ug/L	0.066	538	12167	12566	0
[Mo	98	-0.037	ug/L	0.005	13	548	221	21
Y	89		ug/L			375211	381112	0
Kr	83		ug/L			87	87	3
> In	115		ug/L			546264	564292	0
Ag	107	0.011	ug/L	0.002	18	46	257	15
Cd	111	0.009	ug/L	0.006	69	251	299	9
Cd	114	0.003	ug/L	0.001	23	14	46	16
Sb	121	0.067	ug/L	0.013	18	50	1106	17
Sb	123	0.069	ug/L	0.011	16	33	853	16
Ba	135	0.002	ug/L	0.002	105	13	22	37
[Ba	137	0.003	ug/L	0.001	20	17	39	11
> Tb	159		ug/L			525338	520965	0
Tl	205	0.004	ug/L	0.001	27	41	198	22
Pb	208	0.004	ug/L	0.000	9	298	504	4
Bi	209		ug/L			449045	454478	1
Th	232	0.042	ug/L	0.003	6	195	3070	6
[U	238	0.005	ug/L	0.001	25	30	396	23

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LOW CHECK

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 10:14:24

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	466958	1
[Be	9	0.222	ug/L	0.019	8	3	117	9
C	13		mg/L			4400	7428	2
Cl	37		mg/L			2975540	3175523	0
> Sc	45		ug/L			341467	342661	0
V-1	51	0.218	ug/L	0.017	7	3084	6668	3
V	51	0.205	ug/L	0.001	0	1073	4520	0
Cr	52	0.593	ug/L	0.035	5	9261	17836	2
Cr	53	0.528	ug/L	0.013	2	403	1328	2
Mn	55	0.540	ug/L	0.008	1	325	13834	1
Co	59	0.219	ug/L	0.004	1	45	4279	1
> Ge	72		ug/L			509437	507724	0
Ni	60	0.533	ug/L	0.012	2	52	2260	1
Ni	62	0.540	ug/L	0.062	11	74	418	8
Cu	63	0.568	ug/L	0.010	1	202	5648	1
Cu	65	0.577	ug/L	0.009	1	104	2798	1
Zn	66	4.091	ug/L	0.026	0	1041	13628	0
Zn	67	3.565	ug/L	0.038	1	189	2086	0
Zn	68	4.154	ug/L	0.141	3	10219	19366	1
As-1	75	0.182	ug/L	0.012	6	-97	399	8
As	75	0.404	ug/L	0.027	6	11864	12941	0
Se	82	0.465	ug/L	0.051	10	9	137	10
Se	78	1.319	ug/L	0.109	8	12167	13087	0
Mo	98	0.153	ug/L	0.005	3	548	1911	2
Y	89		ug/L			375211	368038	0
Kr	83		ug/L			87	94	6
> In	115		ug/L			546264	552040	0
Ag	107	0.207	ug/L	0.008	3	46	3741	3
Cd	111	0.129	ug/L	0.004	2	251	824	1
Cd	114	0.119	ug/L	0.004	3	14	1269	3
Sb	121	0.229	ug/L	0.002	0	50	3560	0
Sb	123	0.228	ug/L	0.007	2	33	2669	2
Ba	135	0.533	ug/L	0.015	2	13	1920	2
Ba	137	0.521	ug/L	0.010	1	17	3165	2
> Tb	159		ug/L			525338	507731	0
Tl	205	0.211	ug/L	0.002	1	41	8131	0
Pb	208	0.112	ug/L	0.002	1	298	6141	1
Bi	209		ug/L			449045	441431	1
Th	232	0.211	ug/L	0.003	1	195	14383	0
U	238	0.202	ug/L	0.003	1	30	14937	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSA

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 10:21:35

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	478255 ✓	1
[Be	9	0.001	ug/L	0.000	10	3	3	
C	13		mg/L			4400	23337	0
Cl	37		mg/L			2975540	4775580	2
> Sc	45		ug/L			341467	319764	1
V-1	51	-0.021	ug/L	0.033	158	3084	2577	21
V	51	0.806	ug/L	0.018	2	1073	13620	2
Cr	52	0.652	ug/L	0.007	1	9261	17449	1
Cr	53	3.144	ug/L	0.121	3	403	5503	1
Mn	55	0.048	ug/L	0.003	6	325	1419	3
[Co	59	0.040	ug/L	0.002	4	45	768	3
> Ge	72		ug/L			509437	466660 ✓	1
Ni	60	0.693	ug/L	0.022	3	52	2685	4
Ni	62	4.312	ug/L	0.050	1	74	2596	2
Cu	63	0.525	ug/L	0.002	0	202	4807	1
Cu	65	0.639	ug/L	0.021	3	104	2837	4
Zn	66	1.080	ug/L	0.049	4	1041	4008	3
Zn	67	1.799	ug/L	0.030	1	189	1053	0
Zn	68	0.421	ug/L	0.039	9	10219	10217	2
As-1	75	0.026	ug/L	0.008	29	-97	-25	77
As	75	0.177	ug/L	0.028	15	11864	11317	1
Se	82	-0.014	ug/L	0.029	212	9	5	136
Se	78	0.664	ug/L	0.128	19	12167	11590	2
[Mo	98	437.507	ug/L	3.529	0	548	3579430	1
Y	89		ug/L			375211	344816	1
Kr	83		ug/L			87	107	5
> In	115		ug/L			546264	507449 ✓	2
Ag	107	0.032	ug/L	0.003	9	46	570	10
Cd	111	0.069	ug/L	0.038	56	251	511	30
Cd	114	0.796	ug/L	0.014	1	14	7749	0
Sb	121	0.061	ug/L	0.002	3	50	899	5
Sb	123	0.059	ug/L	0.003	5	33	657	6
Ba	135	0.040	ug/L	0.001	3	13	145	4
[Ba	137	0.040	ug/L	0.006	14	17	237 ✓	15
> Tb	159		ug/L			525338	490194	1
Tl	205	0.003	ug/L	0.000	11	41	150	10
Pb	208	0.043	ug/L	0.001	3	298	2436	2
Bi	209		ug/L			449045	405334	1
Th	232	0.062	ug/L	0.005	8	195	4187	9
[U	238	0.002	ug/L	0.000	16	30	162	13

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSAB

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 10:29:07

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	471425	1
[Be	9	0.003	ug/L	0.003	108	3	4	31
C	13		mg/L			4400	22439	0
Cl	37		mg/L			2975540	4482327	0
> Sc	45		ug/L			341467	302735	1
V-1	51	-0.577	ug/L	0.072	12	3084	-5622	18
V	51	0.839	ug/L	0.042	5	1073	13374	3
Cr	52	20.925	ug/L	0.191	0	9261	274826	1
Cr	53	23.816	ug/L	0.269	1	403	37130	0
Mn	55	20.019	ug/L	0.338	1	325	442920	1
[Co	59	20.647	ug/L	0.064	0	45	352853	1
> Ge	72		ug/L			509437	447251	1
Ni	60	21.170	ug/L	0.104	0	52	77267	0
Ni	62	24.618	ug/L	0.272	1	74	13900	0
Cu	63	20.539	ug/L	0.128	0	202	173558	0
Cu	65	20.383	ug/L	0.143	0	104	83903	0
Zn	66	20.531	ug/L	0.194	0	1041	56581	0
Zn	67	18.578	ug/L	0.127	0	189	8876	0
Zn	68	19.173	ug/L	0.362	1	10219	46296	0
As-1	75	19.672	ug/L	0.019	0	-97	47240	1
As	75	19.601	ug/L	0.013	0	11864	58101	1
Se	82	-0.045	ug/L	0.037	82	9	-2	374
Se	78	0.646	ug/L	0.060	9	12167	11096	1
[Mo	98	439.527	ug/L	0.879	0	548	3446494	1
Y	89		ug/L			375211	340201	0
Kr	83		ug/L			87	110	2
> In	115		ug/L			546264	483992	0
Ag	107	19.105	ug/L	0.053	0	46	298867	0
Cd	111	19.353	ug/L	0.060	0	251	75163	0
Cd	114	20.071	ug/L	0.108	0	14	186067	0
Sb	121	0.055	ug/L	0.004	6	50	778	6
Sb	123	0.054	ug/L	0.004	7	33	572	7
Ba	135	0.065	ug/L	0.007	10	13	216	10
[Ba	137	0.070	ug/L	0.002	2	17	386	2
> Tb	159		ug/L			525338	484648	1
Tl	205	0.002	ug/L	0.000	17	41	95	11
Pb	208	0.047	ug/L	0.000	0	298	2614	1
Bi	209		ug/L			449045	396829	0
Th	232	0.033	ug/L	0.000	0	195	2285	2
[U	238	0.001	ug/L	0.000	15	30	66	9

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LR200

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 10:36:37

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	468400	0
[Be	9	196.125	ug/L	3.469	1	3	101540	0
C	13		mg/L			4400	5632	2
Cl	37		mg/L			2975540	2926266	1
> Sc	45		ug/L			341467	324922	1
V-1	51	208.483	ug/L	1.113	0	3084	3243915	1
V	51	206.467	ug/L	0.596	0	1073	3282997	1
Cr	52	205.808	ug/L	2.545	1	9261	2823082	0
Cr	53	199.807	ug/L	2.004	1	403	331506	0
Mn	55	200.821	ug/L	1.244	0	325	4766244	1
[Co	59	205.625	ug/L	0.680	0	45	3771267	1
> Ge	72		ug/L			509437	479597	0
Ni	60	197.865	ug/L	1.927	0	52	774007	0
Ni	62	195.787	ug/L	1.737	0	74	118062	0
Cu	63	194.463	ug/L	3.526	1	202	1760472	1
Cu	65	192.714	ug/L	3.402	1	104	849845	1
Zn	66	193.018	ug/L	0.686	0	1041	562190	0
Zn	67	191.498	ug/L	1.635	0	189	96458	0
Zn	68	191.859	ug/L	3.023	1	10219	410170	1
As-1	75	198.181	ug/L	1.541	0	-97	511163	0
As	75	197.437	ug/L	1.718	0	11864	526233	0
Se	82	197.580	ug/L	0.808	0	9	51339	0
Se	78	194.856	ug/L	1.347	0	12167	145717	0
[Mo	98	203.894	ug/L	1.565	0	548	1714725	0
Y	89		ug/L			375211	348843	0
Kr	83		ug/L			87	122	2
> In	115		ug/L			546264	507056	1
Ag	107	205.539	ug/L	1.369	0	46	3368107	1
Cd	111	199.277	ug/L	2.683	1	251	808574	0
Cd	114	197.720	ug/L	0.849	0	14	1920117	1
Sb	121	209.835	ug/L	1.135	0	50	2951432	0
Sb	123	209.371	ug/L	1.517	0	33	2224042	0
Ba	135	197.040	ug/L	2.965	1	13	647891	0
[Ba	137	197.910	ug/L	2.409	1	17	1099380	1
> Tb	159		ug/L			525338	488759	0
Tl	205	200.675	ug/L	2.324	1	41	7415752	1
Pb	208	204.269	ug/L	0.328	0	298	10236252	0
Bi	209		ug/L			449045	398858	0
Th	232	204.224	ug/L	1.516	0	195	13233166	0
[U	238	204.194	ug/L	1.735	0	30	14530589	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: LR300

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 10:44:05

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	454173	1
[Be	9	294.983	ug/L	2.378	0	3	148091	1
C	13		mg/L			4400	6083	1
Cl	37		mg/L			2975540	3051968	0
> Sc	45		ug/L			341467	332817	0
V-1	51	314.089	ug/L	3.712	1	3084	5004189	0
V	51	310.671	ug/L	4.337	1	1073	5059243	1
Cr	52	307.607	ug/L	4.073	1	9261	4317923	1
Cr	53	297.561	ug/L	4.164	1	403	505531	1
Mn	55	300.561	ug/L	4.195	1	325	7306797	1
[Co	59	304.453	ug/L	3.267	1	45	5719476	0
> Ge	72		ug/L			509437	493375	0
Ni	60	288.217	ug/L	2.324	0	52	1159843	0
Ni	62	287.424	ug/L	1.037	0	74	178272	0
Cu	63	297.592	ug/L	0.275	0	202	2771521	0
Cu	65	282.524	ug/L	0.707	0	104	1281677	0
Zn	66	279.943	ug/L	0.429	0	1041	838347	0
Zn	67	281.084	ug/L	1.974	0	189	145566	0
Zn	68	280.074	ug/L	2.323	0	10219	611430	0
As-1	75	291.538	ug/L	1.329	0	-97	773610	0
As	75	291.638	ug/L	1.712	0	11864	794164	0
Se	82	286.368	ug/L	1.114	0	9	76544	0
Se	78	287.046	ug/L	2.626	0	12167	215250	0
[Mo	98	313.513	ug/L	0.245	0	548	2712092	0
Y	89		ug/L			375211	349907	0
Kr	83		ug/L			87	143	1
> In	115		ug/L			546264	520564	1
Ag	107	305.194	ug/L	3.122	1	46	5134222	1
Cd	111	291.794	ug/L	2.472	0	251	1215460	0
Cd	114	306.091	ug/L	4.170	1	14	3051510	0
Sb	121	311.889	ug/L	1.503	0	50	4503817	0
Sb	123	312.334	ug/L	3.022	0	33	3406199	1
Ba	135	292.046	ug/L	4.389	1	13	985891	0
[Ba	137	294.115	ug/L	3.026	1	17	1677293	0
> Tb	159		ug/L			525338	477019	0
Tl	205	308.462	ug/L	3.535	1	41	11124541	0
Pb	208	314.371	ug/L	3.539	1	298	15374217	0
Bi	209		ug/L			449045	372151	0
Th	232	316.052	ug/L	3.469	1	195	19986318	0
[U	238	314.980	ug/L	4.945	1	30	21874245	0

ST98: 01214

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV2

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 10:51:37

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			483935	468910	0
[Be	9	50.999	ug/L	0.403	0	3	26437	0
C	13		mg/L			4400	4198	0
Cl	37		mg/L			2975540	3189576	0
[> Sc	45		ug/L			341467	339908	0
V-1	51	50.017	ug/L	0.545	1	3084	816467	1
V	51	50.112	ug/L	0.446	0	1073	834379	1
Cr	52	50.112	ug/L	0.642	1	9261	726124	1
Cr	53	50.397	ug/L	0.331	0	403	87780	0
Mn	55	49.417	ug/L	0.370	0	325	1227224	0
[Co	59	49.976	ug/L	0.423	0	45	958885	0
[> Ge	72		ug/L			509437	501177	0
Ni	60	50.917	ug/L	0.448	0	52	208186	1
Ni	62	50.294	ug/L	0.466	0	74	31746	0
Cu	63	50.807	ug/L	0.249	0	202	480836	1
Cu	65	50.659	ug/L	0.207	0	104	233532	0
Zn	66	51.837	ug/L	0.149	0	1041	158524	0
Zn	67	51.518	ug/L	0.356	0	189	27254	1
Zn	68	51.686	ug/L	0.367	0	10219	122816	0
As-1	75	50.202	ug/L	0.354	0	-97	135234	0
As	75	50.154	ug/L	0.334	0	11864	148394	0
Se	82	50.567	ug/L	0.466	0	9	13737	0
Se	78	50.390	ug/L	0.494	0	12167	48251	0
[Mo	98	50.442	ug/L	0.347	0	548	443690	0
Y	89		ug/L			375211	364395	0
Kr	83		ug/L			87	97	0
[> In	115		ug/L			546264	540993	0
Ag	107	50.376	ug/L	0.351	0	46	880781	0
Cd	111	50.351	ug/L	0.200	0	251	218185	0
Cd	114	50.720	ug/L	0.351	0	14	525553	1
Sb	121	49.836	ug/L	0.212	0	50	747952	0
Sb	123	49.937	ug/L	0.107	0	33	566018	0
Ba	135	49.126	ug/L	0.423	0	13	172374	0
[Ba	137	49.257	ug/L	0.271	0	17	291964	0
[> Tb	159		ug/L			525338	502080	0
Tl	205	48.589	ug/L	0.107	0	41	1844533	0
Pb	208	50.030	ug/L	0.295	0	298	2575559	0
Bi	209		ug/L			449045	434297	0
Th	232	51.992	ug/L	0.150	0	195	3460906	0
[U	238	52.067	ug/L	0.276	0	30	3806130	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB2

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 10:58:49

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	482508	0
[Be	9	0.006	ug/L	0.007	114	3	6	57
C	13		mg/L			4400	4554	1
Cl	37		mg/L			2975540	3180573	0
> Sc	45		ug/L			341467	347801	0
V-1	51	0.001	ug/L	0.009	747	3084	3160	3
V	51	0.030	ug/L	0.005	17	1073	1610	5
Cr	52	-0.004	ug/L	0.008	191	9261	9369	1
Cr	53	0.086	ug/L	0.027	31	403	562	8
Mn	55	0.005	ug/L	0.000	4	325	462	2
Co	59	0.004	ug/L	0.002	47	45	127	29
> Ge	72		ug/L			509437	511700	0
Ni	60	0.001	ug/L	0.003	241	52	57	23
Ni	62	0.012	ug/L	0.010	84	74	82	8
Cu	63	0.011	ug/L	0.005	44	202	305	14
Cu	65	0.011	ug/L	0.002	17	104	155	6
Zn	66	-0.261	ug/L	0.007	2	1041	237	7
Zn	67	-0.170	ug/L	0.058	33	189	98	30
Zn	68	-0.365	ug/L	0.011	2	10219	9452	0
As-1	75	0.006	ug/L	0.007	123	-97	-82	22
As	75	-0.029	ug/L	0.009	30	11864	11837	0
Se	82	-0.001	ug/L	0.026	2873	9	9	75
Se	78	-0.140	ug/L	0.022	15	12167	12118	0
Mo	98	-0.018	ug/L	0.003	18	548	386	8
Y	89		ug/L			375211	375545	0
Kr	83		ug/L			87	85	4
> In	115		ug/L			546264	553448	1
Ag	107	0.020	ug/L	0.002	12	46	406	9
Cd	111	0.011	ug/L	0.003	31	251	301	4
Cd	114	0.004	ug/L	0.000	11	14	59	7
Sb	121	0.090	ug/L	0.015	16	50	1433	15
Sb	123	0.091	ug/L	0.014	14	33	1092	13
Ba	135	0.004	ug/L	0.000	10	13	28	4
Ba	137	0.005	ug/L	0.002	37	17	49	24
> Tb	159		ug/L			525338	515448	0
Tl	205	0.007	ug/L	0.001	16	41	307	13
Pb	208	0.007	ug/L	0.002	28	298	672	15
Bi	209		ug/L			449045	449049	0
Th	232	0.072	ug/L	0.007	9	195	5087	8
U	238	0.008	ug/L	0.002	28	30	635	26

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU04 A-L REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Friday, May 06, 2011 11:08:07

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	482444	0
[Be	9	0.012	ug/L	0.004	30	3	9	19
C	13		mg/L			4400	6815	1
Cl	37		mg/L			2975540	3110692	0
> Sc	45		ug/L			341467	366636	0
V-1	51	6.533	ug/L	0.048	0	3084	117908	0
V	51	6.457	ug/L	0.061	0	1073	116970	0
Cr	52	1.117	ug/L	0.009	0	9261	27182	0
Cr	53	1.251	ug/L	0.048	3	403	2771	2
Mn	55	153.612	ug/L	2.030	1	325	4114216	1
[Co	59	0.115	ug/L	0.002	1	45	2420	1
> Ge	72		ug/L			509437	508179	0
Ni	60	0.591	ug/L	0.028	4	52	2499	4
Ni	62	0.944	ug/L	0.045	4	74	676	4
Cu	63	1.888	ug/L	0.003	0	202	18313	0
Cu	65	1.634	ug/L	0.026	1	104	7737	1
Zn	66	2.495	ug/L	0.014	0	1041	8725	0
Zn	67	2.925	ug/L	0.131	4	189	1746	3
Zn	68	2.486	ug/L	0.071	2	10219	15693	0
As-1	75	0.615	ug/L	0.016	2	-97	1585	3
As	75	0.429	ug/L	0.008	1	11864	13019	0
Se	82	0.412	ug/L	0.016	3	9	123	3
Se	78	-0.282	ug/L	0.086	30	12167	11931	0
[Mo	98	1.448	ug/L	0.019	1	548	13442	0
Y	89		ug/L			375211	388477	0
Kr	83		ug/L			87	88	1
> In	115		ug/L			546264	543170	1
Ag	107	0.010	ug/L	0.001	7	46	226	5
Cd	111	0.007	ug/L	0.014	210	251	278	21
Cd	114	0.010	ug/L	0.001	6	14	114	6
Sb	121	0.063	ug/L	0.002	2	50	1006	1
Sb	123	0.063	ug/L	0.002	3	33	751	3
Ba	135	5.643	ug/L	0.145	2	13	19888	1
[Ba	137	5.727	ug/L	0.049	0	17	34098	1
> Tb	159		ug/L			525338	515066	0
Tl	205	0.005	ug/L	0.001	13	41	248	11
Pb	208	0.242	ug/L	0.003	1	298	13067	0
Bi	209		ug/L			449045	436966	0
Th	232	0.085	ug/L	0.002	2	195	5983	2
[U	238	0.119	ug/L	0.001	0	30	8972	1

ST98 : 01217

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU04 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 11:14:39

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	468535	1
[Be	9	0.095	ug/L	0.008	8	3	52	8
C	13		mg/L			4400	10027	1
Cl	37		mg/L			2975540	3098698	0
> Sc	45		ug/L			341467	428948	1
V-1	51	28.410	ug/L	0.340	1	3084	586860	0
V	51	27.970	ug/L	0.350	1	1073	588248	0
Cr	52	4.769	ug/L	0.120	2	9261	97726	1
Cr	53	5.019	ug/L	0.135	2	403	11486	1
Mn	55	646.300	ug/L	6.114	0	325	20248836	0
[Co	59	0.546	ug/L	0.007	1	45	13275	1
> Ge	72		ug/L			509437	481210	0
Ni	60	3.059	ug/L	0.060	1	52	12056	1
Ni	62	4.797	ug/L	0.252	5	74	2970	4
Cu	63	9.538	ug/L	0.138	1	202	86817	0
Cu	65	8.140	ug/L	0.068	0	104	36112	0
Zn	66	11.791	ug/L	0.041	0	1041	35382	0
Zn	67	14.125	ug/L	0.075	0	189	7304	0
Zn	68	12.856	ug/L	0.125	0	10219	36583	1
As-1	75	3.127	ug/L	0.033	1	-97	8003	1
As	75	2.828	ug/L	0.033	1	11864	18608	0
Se	82	2.235	ug/L	0.032	1	9	591	1
Se	78	1.218	ug/L	0.151	12	12167	12334	0
[Mo	98	7.882	ug/L	0.039	0	548	67011	0
Y	89		ug/L			375211	425235	0
Kr	83		ug/L			87	103	8
> In	115		ug/L			546264	511176	1
Ag	107	0.032	ug/L	0.002	6	46	567	4
Cd	111	0.052	ug/L	0.031	59	251	447	29
Cd	114	0.044	ug/L	0.002	4	14	444	5
Sb	121	0.195	ug/L	0.004	1	50	2817	1
Sb	123	0.196	ug/L	0.006	2	33	2125	1
Ba	135	29.268	ug/L	0.098	0	13	97042	1
[Ba	137	29.444	ug/L	0.262	0	17	164906	0
> Tb	159		ug/L			525338	480466	1
Tl	205	0.008	ug/L	0.000	3	41	342	2
Pb	208	1.199	ug/L	0.021	1	298	59302	0
Bi	209		ug/L			449045	388318	0
Th	232	0.350	ug/L	0.007	2	195	22473	1
[U	238	0.610	ug/L	0.004	0	30	42726	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU04 E-L REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Friday, May 06, 2011 11:21:12

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	490115	1
[Be	9	0.008	ug/L	0.005	62	3	7	33
C	13		mg/L			4400	7192	1
Cl	37		mg/L			2975540	2949646	0
> Sc	45		ug/L			341467	347404	1
V-1	51	7.241	ug/L	0.039	0	3084	123494	0
V	51	7.146	ug/L	0.027	0	1073	122547	0
Cr	52	1.334	ug/L	0.044	3	9261	28925	1
Cr	53	1.442	ug/L	0.034	2	403	2965	2
Mn	55	146.913	ug/L	1.499	1	325	3728300	1
[Co	59	0.089	ug/L	0.003	3	45	1780	2
> Ge	72		ug/L			509437	491009	0
Ni	60	0.495	ug/L	0.015	3	52	2033	2
Ni	62	0.660	ug/L	0.049	7	74	478	5
Cu	63	0.994	ug/L	0.010	0	202	9411	1
Cu	65	0.691	ug/L	0.023	3	104	3221	3
Zn	66	0.988	ug/L	0.013	1	1041	3945	1
Zn	67	1.572	ug/L	0.095	6	189	991	5
Zn	68	1.193	ug/L	0.045	3	10219	12401	1
As-1	75	0.609	ug/L	0.022	3	-97	1513	3
As	75	0.531	ug/L	0.039	7	11864	12852	0
Se	82	0.524	ug/L	0.056	10	9	148	9
Se	78	0.228	ug/L	0.105	46	12167	11887	0
[Mo	98	1.655	ug/L	0.023	1	548	14774	1
Y	89		ug/L			375211	368940	1
Kr	83		ug/L			87	83	4
> In	115		ug/L			546264	525732	1
Ag	107	0.007	ug/L	0.001	15	46	165	11
Cd	111	0.000	ug/L	0.006	1923	251	243	10
Cd	114	0.005	ug/L	0.001	23	14	62	17
Sb	121	0.048	ug/L	0.002	3	50	750	2
Sb	123	0.049	ug/L	0.002	4	33	576	4
Ba	135	3.920	ug/L	0.031	0	13	13377	0
[Ba	137	3.972	ug/L	0.052	1	17	22890	0
> Tb	159		ug/L			525338	502316	0
Tl	205	0.003	ug/L	0.000	7	41	155	5
Pb	208	0.090	ug/L	0.001	1	298	4913	1
Bi	209		ug/L			449045	416756	0
Th	232	0.044	ug/L	0.001	2	195	3086	2
[U	238	0.094	ug/L	0.002	2	30	6919	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU04 E REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 11:27:46

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	435727	0
[Be	9	0.058	ug/L	0.006	10	3	30	10
C	13		mg/L			4400	11954	1
Cl	37		mg/L			2975540	3122791	0
> Sc	45		ug/L			341467	398108	0
V-1	51	30.739	ug/L	0.242	0	3084	589086	0
V	51	30.289	ug/L	0.223	0	1073	591175	0
Cr	52	5.478	ug/L	0.018	0	9261	102584	0
Cr	53	5.806	ug/L	0.053	0	403	12259	0
Mn	55	606.630	ug/L	3.799	0	325	17640770	0
Co	59	0.423	ug/L	0.007	1	45	9550	1
> Ge	72		ug/L			509437	462893	0
Ni	60	2.425	ug/L	0.019	0	52	9200	0
Ni	62	3.434	ug/L	0.153	4	74	2065	4
Cu	63	4.775	ug/L	0.071	1	202	41901	1
Cu	65	3.215	ug/L	0.030	0	104	13775	1
Zn	66	5.206	ug/L	0.069	1	1041	15556	1
Zn	67	7.971	ug/L	0.363	4	189	4040	4
Zn	68	6.433	ug/L	0.089	1	10219	22247	0
As-1	75	2.877	ug/L	0.006	0	-97	7075	0
As	75	2.738	ug/L	0.054	1	11864	17673	0
Se	82	2.365	ug/L	0.100	4	9	601	4
Se	78	1.918	ug/L	0.119	6	12167	12330	0
Mo	98	8.514	ug/L	0.016	0	548	69590	0
Y	89		ug/L			375211	380368	0
Kr	83		ug/L			87	95	3
> In	115		ug/L			546264	486146	0
Ag	107	0.024	ug/L	0.001	3	46	415	3
Cd	111	0.012	ug/L	0.020	173	251	268	29
Cd	114	0.025	ug/L	0.001	5	14	241	6
Sb	121	0.197	ug/L	0.001	0	50	2700	1
Sb	123	0.197	ug/L	0.009	4	33	2033	4
Ba	135	20.115	ug/L	0.071	0	13	63433	0
[Ba	137	19.962	ug/L	0.145	0	17	106338	1
> Tb	159		ug/L			525338	453843	0
Tl	205	0.006	ug/L	0.000	4	41	225	4
Pb	208	0.432	ug/L	0.003	0	298	20360	0
Bi	209		ug/L			449045	373521	0
Th	232	0.196	ug/L	0.004	1	195	11979	1
U	238	0.490	ug/L	0.004	0	30	32383	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU02 N REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 11:34:19

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	429606	1
[Be	9	0.018	ug/L	0.004	20	3	11	16
C	13		mg/L			4400	9052	2
Cl	37		mg/L			2975540	3014149	0
> Sc	45		ug/L			341467	325224	0
V-1	51	0.567	ug/L	0.013	2	3084	11756	1
V	51	0.596	ug/L	0.009	1	1073	10505	1
Cr	52	0.104	ug/L	0.016	15	9261	10239	1
Cr	53	0.225	ug/L	0.004	1	403	757	1
Mn	55	210.381	ug/L	2.460	1	325	4997752	0
[Co	59	0.840	ug/L	0.009	1	45	15464	1
> Ge	72		ug/L			509437	468104	0
Ni	60	2.608	ug/L	0.040	1	52	10005	1
Ni	62	2.248	ug/L	0.071	3	74	1390	2
Cu	63	0.566	ug/L	0.000	0	202	5183	0
Cu	65	0.515	ug/L	0.023	4	104	2312	4
Zn	66	0.671	ug/L	0.013	1	1041	2859	1
Zn	67	0.784	ug/L	0.020	2	189	558	1
Zn	68	1.204	ug/L	0.008	0	10219	11844	0
As-1	75	0.792	ug/L	0.005	0	-97	1905	0
As	75	0.741	ug/L	0.071	9	11864	12788	1
Se	82	1.371	ug/L	0.072	5	9	356	4
Se	78	1.197	ug/L	0.189	15	12167	11985	1
[Mo	98	0.032	ug/L	0.004	10	548	769	4
Y	89		ug/L			375211	355475	0
Kr	83		ug/L			87	92	4
> In	115		ug/L			546264	485507	0
Ag	107	0.003	ug/L	0.001	20	46	90	11
Cd	111	0.009	ug/L	0.002	23	251	256	2
Cd	114	0.016	ug/L	0.001	7	14	161	7
Sb	121	0.113	ug/L	0.003	2	50	1572	3
Sb	123	0.118	ug/L	0.008	6	33	1232	5
Ba	135	7.377	ug/L	0.035	0	13	23240	0
[Ba	137	7.369	ug/L	0.102	1	17	39210	0
> Tb	159		ug/L			525338	459429	0
Tl	205	0.008	ug/L	0.000	2	41	302	2
Pb	208	0.013	ug/L	0.001	5	298	892	4
Bi	209		ug/L			449045	390757	0
Th	232	0.007	ug/L	0.001	10	195	598	7
[U	238	0.064	ug/L	0.001	2	30	4327	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST73 CDUP REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 11:40:53

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	433816	1
[Be	9	0.002	ug/L	0.005	281	3	3	57
C	13		mg/L			4400	8592	1
Cl	37		mg/L			2975540	2991196	0
> Sc	45		ug/L			341467	321255	0
V-1	51	0.835	ug/L	0.013	1	3084	15736	1
V	51	0.866	ug/L	0.007	0	1073	14618	1
Cr	52	0.209	ug/L	0.010	4	9261	11544	0
Cr	53	0.346	ug/L	0.016	4	403	947	3
Mn	55	0.983	ug/L	0.002	0	325	23370	0
Co	59	0.070	ug/L	0.002	3	45	1306	2
> Ge	72		ug/L			509437	453297	1
Ni	60	1.117	ug/L	0.021	1	52	4175	0
Ni	62	0.368	ug/L	0.023	6	74	275	5
Cu	63	1.043	ug/L	0.009	0	202	9100	0
Cu	65	1.041	ug/L	0.029	2	104	4432	2
Zn	66	0.076	ug/L	0.021	27	1041	1136	4
Zn	67	0.394	ug/L	0.046	11	189	355	6
Zn	68	0.789	ug/L	0.080	10	10219	10647	0
As-1	75	0.301	ug/L	0.015	4	-97	647	4
As	75	0.539	ug/L	0.028	5	11864	11885	0
Se	82	0.348	ug/L	0.015	4	9	94	3
Se	78	1.265	ug/L	0.074	5	12167	11650	1
Mo	98	0.380	ug/L	0.008	2	548	3507	0
Y	89		ug/L			375211	336845	0
Kr	83		ug/L			87	83	2
> In	115		ug/L			546264	484669	0
Ag	107	0.003	ug/L	0.001	23	46	82	11
Cd	111	0.010	ug/L	0.009	84	251	262	13
Cd	114	0.006	ug/L	0.002	25	14	71	20
Sb	121	0.126	ug/L	0.002	1	50	1744	1
Sb	123	0.126	ug/L	0.003	2	33	1311	2
Ba	135	10.557	ug/L	0.046	0	13	33194	0
Ba	137	10.631	ug/L	0.085	0	17	56463	0
> Tb	159		ug/L			525338	458563	1
Tl	205	0.004	ug/L	0.000	2	41	173	1
Pb	208	0.006	ug/L	0.000	8	298	520	3
Bi	209		ug/L			449045	388377	0
Th	232	0.004	ug/L	0.000	11	195	440	5
U	238	0.041	ug/L	0.001	2	30	2765	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST73 C REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 11:47:26

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	433795	1
[Be	9	0.014	ug/L	0.008	56	3	9	39
C	13		mg/L			4400	8450	0
Cl	37		mg/L			2975540	2960906	0
> Sc	45		ug/L			341467	310392	0
V-1	51	0.843	ug/L	0.007	0	3084	15321	0
V	51	0.860	ug/L	0.004	0	1073	14042	0
Cr	52	0.244	ug/L	0.021	8	9261	11609	1
Cr	53	0.339	ug/L	0.011	3	403	902	1
Mn	55	1.003	ug/L	0.008	0	325	23031	1
[Co	59	0.072	ug/L	0.005	7	45	1301	7
> Ge	72		ug/L			509437	440723	1
Ni	60	1.083	ug/L	0.033	3	52	3937	3
Ni	62	0.388	ug/L	0.040	10	74	279	8
Cu	63	1.057	ug/L	0.010	0	202	8966	1
Cu	65	1.044	ug/L	0.013	1	104	4319	0
Zn	66	0.116	ug/L	0.006	4	1041	1209	0
Zn	67	0.485	ug/L	0.051	10	189	387	6
Zn	68	0.832	ug/L	0.083	10	10219	10435	0
As-1	75	0.271	ug/L	0.008	2	-97	559	3
As	75	0.564	ug/L	0.027	4	11864	11617	1
Se	82	0.253	ug/L	0.028	11	9	68	8
Se	78	1.391	ug/L	0.105	7	12167	11406	1
[Mo	98	0.385	ug/L	0.011	2	548	3447	1
Y	89		ug/L			375211	332992	1
Kr	83		ug/L			87	83	0
> In	115		ug/L			546264	465079	1
Ag	107	0.002	ug/L	0.001	45	46	75	20
Cd	111	0.008	ug/L	0.000	5	251	243	1
Cd	114	0.007	ug/L	0.001	12	14	72	11
Sb	121	0.127	ug/L	0.007	5	50	1680	6
Sb	123	0.126	ug/L	0.002	1	33	1254	2
Ba	135	10.468	ug/L	0.140	1	13	31581	0
[Ba	137	10.688	ug/L	0.057	0	17	54469	0
> Tb	159		ug/L			525338	447559	1
Tl	205	0.004	ug/L	0.000	10	41	173	8
Pb	208	0.008	ug/L	0.000	4	298	642	2
Bi	209		ug/L			449045	382732	0
Th	232	0.004	ug/L	0.001	19	195	425	10
[U	238	0.041	ug/L	0.001	1	30	2681	0

ST98: 01223

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST73 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 11:54:01

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	423990	1
[Be	9	0.003	ug/L	0.004	151	3	4	45
C	13		mg/L			4400	8908	1
Cl	37		mg/L			2975540	2967588	0
> Sc	45		ug/L			341467	334468	0
V-1	51	0.672	ug/L	0.017	2	3084	13768	1
V	51	0.701	ug/L	0.006	0	1073	12524	0
Cr	52	0.116	ug/L	0.007	6	9261	10710	0
Cr	53	0.244	ug/L	0.023	9	403	812	5
Mn	55	1905.031	ug/L	13.004	0	325	46541621	0
[Co	59	0.571	ug/L	0.007	1	45	10831	1
> Ge	72		ug/L			509437	432944	0
Ni	60	4.360	ug/L	0.033	0	52	15438	0
Ni	62	2.984	ug/L	0.052	1	74	1686	1
Cu	63	0.420	ug/L	0.004	0	202	3606	1
Cu	65	0.367	ug/L	0.017	4	104	1550	4
Zn	66	0.265	ug/L	0.023	8	1041	1580	4
Zn	67	1.208	ug/L	0.079	6	189	709	5
Zn	68	1.814	ug/L	0.063	3	10219	12102	0
As-1	75	3.673	ug/L	0.040	1	-97	8471	0
As	75	3.747	ug/L	0.044	1	11864	18905	0
Se	82	1.125	ug/L	0.060	5	9	272	4
Se	78	1.576	ug/L	0.110	6	12167	11320	0
[Mo	98	1.128	ug/L	0.010	0	548	9025	1
Y	89		ug/L			375211	329498	0
Kr	83		ug/L			87	91	5
> In	115		ug/L			546264	461136	0
Ag	107	0.001	ug/L	0.000	36	46	49	8
Cd	111	0.011	ug/L	0.011	99	251	254	15
Cd	114	0.004	ug/L	0.000	5	14	43	4
Sb	121	0.056	ug/L	0.001	1	50	761	2
Sb	123	0.058	ug/L	0.002	2	33	591	3
Ba	135	35.626	ug/L	0.240	0	13	106554	0
[Ba	137	36.129	ug/L	0.366	1	17	182531	0
> Tb	159		ug/L			525338	437488	0
Tl	205	0.001	ug/L	0.000	15	41	79	8
Pb	208	0.006	ug/L	0.000	6	298	508	4
Bi	209		ug/L			449045	372978	0
Th	232	0.005	ug/L	0.001	14	195	448	9
[U	238	0.820	ug/L	0.002	0	30	52234	0

ST98: 01224

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST73 F REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 12:00:37

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	429714	0
[Be	9	0.008	ug/L	0.013	166	3	6	92
C	13		mg/L			4400	9163	1
Cl	37		mg/L			2975540	2932239	0
> Sc	45		ug/L			341467	313205	0
V-1	51	0.455	ug/L	0.010	2	3084	9648	1
V	51	0.458	ug/L	0.006	1	1073	8000	1
Cr	52	0.171	ug/L	0.016	9	9261	10752	2
Cr	53	0.199	ug/L	0.019	9	403	688	4
Mn	55	2400.605	ug/L	11.037	0	325	54920859	0
[Co	59	5.418	ug/L	0.018	0	45	95829	0
> Ge	72		ug/L			509437	433879	0
Ni	60	6.993	ug/L	0.078	1	52	24790	1
Ni	62	5.165	ug/L	0.068	1	74	2879	1
Cu	63	0.682	ug/L	0.006	0	202	5755	0
Cu	65	0.703	ug/L	0.003	0	104	2891	0
Zn	66	2.346	ug/L	0.030	1	1041	7059	1
Zn	67	3.313	ug/L	0.137	4	189	1668	3
Zn	68	3.778	ug/L	0.071	1	10219	15839	1
As-1	75	1.191	ug/L	0.011	0	-97	2697	0
As	75	1.146	ug/L	0.064	5	11864	12809	1
Se	82	1.880	ug/L	0.080	4	9	450	3
Se	78	1.738	ug/L	0.219	12	12167	11446	1
[Mo	98	0.203	ug/L	0.009	4	548	2011	3
Y	89		ug/L			375211	367187	0
Kr	83		ug/L			87	89	8
> In	115		ug/L			546264	462618	1
Ag	107	0.006	ug/L	0.001	14	46	130	9
Cd	111	0.049	ug/L	0.012	24	251	393	11
Cd	114	0.026	ug/L	0.001	5	14	239	3
Sb	121	0.217	ug/L	0.007	3	50	2828	3
Sb	123	0.214	ug/L	0.006	2	33	2106	1
Ba	135	41.342	ug/L	0.948	2	13	124031	1
[Ba	137	41.344	ug/L	0.508	1	17	209540	0
> Tb	159		ug/L			525338	442990	0
Tl	205	0.031	ug/L	0.001	2	41	1063	1
Pb	208	0.058	ug/L	0.002	3	298	2886	3
Bi	209		ug/L			449045	374594	0
Th	232	0.005	ug/L	0.001	12	195	463	8
[U	238	0.192	ug/L	0.002	1	30	12412	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST73 I REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 12:07:13

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	433530	2
[Be	9	0.010	ug/L	0.007	74	3	7	44
C	13		mg/L			4400	7864	1
Cl	37		mg/L			2975540	2867825	0
> Sc	45		ug/L			341467	327858	0
V-1	51	0.639	ug/L	0.005	0	3084	12979	0
V	51	0.661	ug/L	0.012	1	1073	11632	1
Cr	52	0.107	ug/L	0.013	12	9261	10363	2
Cr	53	0.211	ug/L	0.012	5	403	740	2
Mn	55	1862.007	ug/L	26.246	1	325	44593640	1
Co	59	0.571	ug/L	0.009	1	45	10610	1
> Ge	72		ug/L			509437	424022	0
Ni	60	4.324	ug/L	0.058	1	52	14997	0
Ni	62	2.769	ug/L	0.061	2	74	1536	2
Cu	63	0.402	ug/L	0.011	2	202	3383	2
Cu	65	0.364	ug/L	0.013	3	104	1506	3
Zn	66	0.365	ug/L	0.015	4	1041	1806	2
Zn	67	1.419	ug/L	0.019	1	189	788	1
Zn	68	1.816	ug/L	0.048	2	10219	11857	0
As-1	75	3.462	ug/L	0.014	0	-97	7815	0
As	75	3.494	ug/L	0.057	1	11864	17934	1
Se	82	1.107	ug/L	0.038	3	9	262	3
Se	78	1.377	ug/L	0.231	16	12167	10966	1
Mo	98	1.076	ug/L	0.028	2	548	8457	2
Y	89		ug/L			375211	330648	0
Kr	83		ug/L			87	84	6
> In	115		ug/L			546264	454329	0
Ag	107	0.002	ug/L	0.001	31	46	69	14
Cd	111	0.018	ug/L	0.003	19	251	274	4
Cd	114	0.004	ug/L	0.002	42	14	43	31
Sb	121	0.055	ug/L	0.004	6	50	737	5
Sb	123	0.054	ug/L	0.003	5	33	541	5
Ba	135	35.322	ug/L	0.341	0	13	104082	0
[Ba	137	35.966	ug/L	0.530	1	17	179030	1
> Tb	159		ug/L			525338	445452	1
Tl	205	0.001	ug/L	0.000	17	41	79	8
Pb	208	0.007	ug/L	0.000	6	298	576	1
Bi	209		ug/L			449045	373752	0
Th	232	0.009	ug/L	0.004	42	195	712	33
U	238	0.808	ug/L	0.013	1	30	52410	0

ST98: 01226

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV3

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 12:13:48

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	439185	0
[Be	9	49.564	ug/L	0.420	0	3	24064	0
C	13		mg/L			4400	4177	1
Cl	37		mg/L			2975540	2985918	0
> Sc	45		ug/L			341467	291244	0
V-1	51	50.019	ug/L	0.506	1	3084	699594	0
V	51	50.193	ug/L	0.415	0	1073	716058	0
Cr	52	50.518	ug/L	0.233	0	9261	627147	0
Cr	53	51.016	ug/L	0.477	0	403	76132	0
Mn	55	49.598	ug/L	0.233	0	325	1055412	0
Co	59	50.560	ug/L	0.484	0	45	831215	0
> Ge	72		ug/L			509437	439496	0
Ni	60	50.619	ug/L	0.370	0	52	181493	0
Ni	62	50.009	ug/L	0.297	0	74	27683	1
Cu	63	51.126	ug/L	0.161	0	202	424294	0
Cu	65	50.651	ug/L	0.404	0	104	204752	0
Zn	66	51.622	ug/L	0.351	0	1041	138443	0
Zn	67	51.227	ug/L	0.121	0	189	23765	0
Zn	68	51.756	ug/L	0.246	0	10219	107836	0
As-1	75	50.210	ug/L	0.326	0	-97	118615	0
As	75	50.326	ug/L	0.301	0	11864	130547	0
Se	82	50.822	ug/L	0.234	0	9	12108	0
Se	78	51.256	ug/L	0.240	0	12167	42860	0
Mo	98	51.491	ug/L	0.720	1	548	397166	0
Y	89		ug/L			375211	324000	0
Kr	83		ug/L			87	86	8
> In	115		ug/L			546264	465249	0
Ag	107	51.078	ug/L	0.094	0	46	768032	0
Cd	111	50.717	ug/L	0.462	0	251	188993	0
Cd	114	50.636	ug/L	0.524	1	14	451185	0
Sb	121	50.272	ug/L	0.186	0	50	648842	0
Sb	123	49.939	ug/L	0.257	0	33	486775	0
Ba	135	49.148	ug/L	0.486	0	13	148307	1
[Ba	137	49.549	ug/L	0.156	0	17	252578	1
> Tb	159		ug/L			525338	454573	1
Tl	205	48.123	ug/L	0.844	1	41	1653792	1
Pb	208	49.158	ug/L	0.602	1	298	2291021	0
Bi	209		ug/L			449045	391061	0
Th	232	51.276	ug/L	0.766	1	195	3089942	0
[U	238	50.997	ug/L	0.522	1	30	3375008	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB3

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 12:21:01

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	456470	0
[Be	9	0.004	ug/L	0.002	66	3	5	25
C	13		mg/L			4400	4419	1
Cl	37		mg/L			2975540	3052430	0
> Sc	45		ug/L			341467	300584	0
V-1	51	0.008	ug/L	0.001	6	3084	2836	0
V	51	0.016	ug/L	0.002	9	1073	1186	2
Cr	52	0.042	ug/L	0.012	28	9261	8680	1
Cr	53	0.064	ug/L	0.010	15	403	452	2
Mn	55	0.029	ug/L	0.002	8	325	927	5
Co	59	0.001	ug/L	0.000	10	45	52	2
> Ge	72		ug/L			509437	447925	0
Ni	60	-0.001	ug/L	0.000	33	52	42	2
Ni	62	0.021	ug/L	0.015	70	74	77	10
Cu	63	0.001	ug/L	0.001	107	202	186	4
Cu	65	0.004	ug/L	0.002	55	104	109	8
Zn	66	-0.265	ug/L	0.007	2	1041	195	9
Zn	67	-0.195	ug/L	0.013	6	189	74	7
Zn	68	0.045	ug/L	0.022	48	10219	9072	0
As-1	75	0.019	ug/L	0.014	74	-97	-39	84
As	75	0.281	ug/L	0.012	4	11864	11116	0
Se	82	0.039	ug/L	0.014	35	9	18	18
Se	78	1.053	ug/L	0.031	2	12167	11375	0
Mo	98	-0.043	ug/L	0.002	3	548	141	8
Y	89		ug/L			375211	336502	0
Kr	83		ug/L			87	83	3
> In	115		ug/L			546264	481085	0
Ag	107	0.007	ug/L	0.002	22	46	154	17
Cd	111	0.011	ug/L	0.002	19	251	263	2
Cd	114	0.001	ug/L	0.001	77	14	19	27
Sb	121	0.063	ug/L	0.010	15	50	881	15
Sb	123	0.066	ug/L	0.009	13	33	695	13
Ba	135	0.001	ug/L	0.000	42	13	15	8
Ba	137	0.002	ug/L	0.001	77	17	23	26
> Tb	159		ug/L			525338	463266	0
Tl	205	0.004	ug/L	0.000	13	41	161	11
Pb	208	0.002	ug/L	0.001	32	298	359	9
Bi	209		ug/L			449045	400503	0
Th	232	0.036	ug/L	0.001	2	195	2371	2
U	238	0.003	ug/L	0.001	15	30	255	14

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU11 ADUP REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 12:28:14

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	429590	0
[Be	9	0.003	ug/L	0.004	116	3	4	41
C	13		mg/L			4400	7663	1
Cl	37		mg/L			2975540	2742792	1
> Sc	45		ug/L			341467	325400	1
V-1	51	0.807	ug/L	0.016	1	3084	15507	1
V	51	0.822	ug/L	0.014	1	1073	14113	1
Cr	52	0.256	ug/L	0.009	3	9261	12325	1
Cr	53	0.339	ug/L	0.011	3	403	946	0
Mn	55	107.137	ug/L	0.576	0	325	2546979	2
[Co	59	0.111	ug/L	0.001	0	45	2078	1
> Ge	72		ug/L			509437	399613	2
Ni	60	7.759	ug/L	0.052	0	52	25329	2
Ni	62	6.396	ug/L	0.059	0	74	3269	1
Cu	63	0.938	ug/L	0.010	1	202	7238	3
Cu	65	0.969	ug/L	0.022	2	104	3642	3
Zn	66	0.387	ug/L	0.019	4	1041	1753	2
Zn	67	0.674	ug/L	0.045	6	189	430	2
Zn	68	1.540	ug/L	0.047	3	10219	10694	2
As-1	75	0.775	ug/L	0.018	2	-97	1589	3
As	75	1.083	ug/L	0.056	5	11864	11659	1
Se	82	0.518	ug/L	0.043	8	9	120	10
Se	78	1.740	ug/L	0.135	7	12167	10541	2
[Mo	98	0.069	ug/L	0.004	5	548	912	0
Y	89		ug/L			375211	313216	2
Kr	83		ug/L			87	79	1
> In	115		ug/L			546264	439209	2
Ag	107	0.003	ug/L	0.000	12	46	75	5
Cd	111	0.022	ug/L	0.003	12	251	277	1
Cd	114	0.011	ug/L	0.002	13	14	104	11
Sb	121	0.085	ug/L	0.002	2	50	1072	4
Sb	123	0.087	ug/L	0.003	3	33	831	5
Ba	135	12.815	ug/L	0.093	0	13	36509	1
[Ba	137	12.986	ug/L	0.195	1	17	62495	2
> Tb	159		ug/L			525338	435081	2
Tl	205	0.006	ug/L	0.000	6	41	236	4
Pb	208	0.007	ug/L	0.001	10	298	540	7
Bi	209		ug/L			449045	362576	1
Th	232	0.021	ug/L	0.002	8	195	1359	7
[U	238	0.769	ug/L	0.010	1	30	48753	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU11 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 12:34:51

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	433119	0
[Be	9	0.007	ug/L	0.009	137	3	6	72
C	13		mg/L			4400	7732	1
Cl	37		mg/L			2975540	2660252	0
> Sc	45		ug/L			341467	318047	0
V-1	51	0.796	ug/L	0.014	1	3084	14979	1
V	51	0.817	ug/L	0.013	1	1073	13711	1
Cr	52	0.260	ug/L	0.005	1	9261	12101	0
Cr	53	0.361	ug/L	0.010	2	403	961	1
Mn	55	104.069	ug/L	1.523	1	325	2417824	0
[Co	59	0.114	ug/L	0.002	1	45	2089	2
> Ge	72		ug/L			509437	392285	0
Ni	60	7.707	ug/L	0.210	2	52	24696	2
Ni	62	6.376	ug/L	0.180	2	74	3199	2
Cu	63	0.880	ug/L	0.007	0	202	6671	0
Cu	65	0.929	ug/L	0.012	1	104	3432	0
Zn	66	0.371	ug/L	0.018	4	1041	1684	3
Zn	67	0.642	ug/L	0.036	5	189	409	3
Zn	68	1.405	ug/L	0.034	2	10219	10268	1
As-1	75	0.748	ug/L	0.020	2	-97	1503	2
As	75	0.967	ug/L	0.027	2	11864	11199	0
Se	82	0.532	ug/L	0.050	9	9	120	8
Se	78	1.423	ug/L	0.080	5	12167	10171	1
[Mo	98	0.065	ug/L	0.004	5	548	866	2
Y	89		ug/L			375211	312273	1
Kr	83		ug/L			87	79	9
> In	115		ug/L			546264	431963	0
Ag	107	0.001	ug/L	0.000	24	46	57	9
Cd	111	0.020	ug/L	0.010	47	251	268	13
Cd	114	0.012	ug/L	0.002	18	14	108	16
Sb	121	0.073	ug/L	0.002	2	50	908	1
Sb	123	0.074	ug/L	0.002	2	33	697	3
Ba	135	12.537	ug/L	0.116	0	13	35130	0
[Ba	137	12.620	ug/L	0.131	1	17	59735	0
> Tb	159		ug/L			525338	431159	0
Tl	205	0.005	ug/L	0.000	6	41	192	5
Pb	208	0.004	ug/L	0.000	4	298	402	1
Bi	209		ug/L			449045	359458	0
Th	232	0.009	ug/L	0.001	11	195	699	9
[U	238	0.747	ug/L	0.005	0	30	46916	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU11 ASPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 12:41:25

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	433928	1
[Be	9	23.845	ug/L	0.494	2	3	11438	0
C	13		mg/L			4400	7896	1
Cl	37		mg/L			2975540	2670828	0
> Sc	45		ug/L			341467	320497	0
V-1	51	22.465	ug/L	0.154	0	3084	347382	1
V	51	22.460	ug/L	0.057	0	1073	353171	0
Cr	52	21.596	ug/L	0.184	0	9261	300022	1
Cr	53	21.639	ug/L	0.262	1	403	35754	0
Mn	55	128.278	ug/L	0.581	0	325	3003348	0
[Co	59	21.428	ug/L	0.191	0	45	387683	0
> Ge	72		ug/L			509437	395852	0
Ni	60	32.811	ug/L	0.394	1	52	105973	1
Ni	62	31.460	ug/L	0.219	0	74	15706	0
Cu	63	26.554	ug/L	0.208	0	202	198562	1
Cu	65	26.172	ug/L	0.182	0	104	95337	1
Zn	66	77.077	ug/L	0.514	0	1041	185785	0
Zn	67	69.495	ug/L	0.778	1	189	28985	0
Zn	68	75.751	ug/L	0.365	0	10219	138479	0
As-1	75	25.343	ug/L	0.113	0	-97	53887	0
As	75	25.475	ug/L	0.182	0	11864	64071	0
Se	82	78.441	ug/L	0.492	0	9	16827	0
Se	78	76.729	ug/L	0.868	1	12167	53090	0
[Mo	98	27.322	ug/L	0.289	1	548	190018	0
Y	89		ug/L			375211	312093	0
Kr	83		ug/L			87	80	4
> In	115		ug/L			546264	435325	0
Ag	107	24.630	ug/L	0.233	0	46	346542	0
Cd	111	24.879	ug/L	0.222	0	251	86854	1
Cd	114	24.529	ug/L	0.208	0	14	204516	0
Sb	121	24.622	ug/L	0.085	0	50	297375	0
Sb	123	24.533	ug/L	0.237	0	33	223759	0
Ba	135	37.604	ug/L	0.650	1	13	106166	1
[Ba	137	37.863	ug/L	0.450	1	17	180598	1
> Tb	159		ug/L			525338	439923	0
Tl	205	23.840	ug/L	0.109	0	41	792984	0
Pb	208	24.180	ug/L	0.064	0	298	1090836	0
Bi	209		ug/L			449045	362565	0
Th	232	24.023	ug/L	0.139	0	195	1401265	0
[U	238	24.984	ug/L	0.169	0	30	1600239	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU11 FDUP REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 12:47:55

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	437280	0
[Be	9	0.001	ug/L	0.007	452	3	3	88
C	13		mg/L			4400	7590	0
Cl	37		mg/L			2975540	2647156	0
> Sc	45		ug/L			341467	322888	2
V-1	51	0.822	ug/L	0.023	2	3084	15612	2
V	51	0.835	ug/L	0.027	3	1073	14198	2
Cr	52	0.259	ug/L	0.016	6	9261	12281	2
Cr	53	0.337	ug/L	0.011	3	403	935	0
Mn	55	106.434	ug/L	0.715	0	325	2510327	1
[Co	59	0.114	ug/L	0.003	2	45	2119	1
> Ge	72		ug/L			509437	393172	1
Ni	60	8.108	ug/L	0.023	0	52	26041	1
Ni	62	6.684	ug/L	0.098	1	74	3360	2
Cu	63	0.983	ug/L	0.013	1	202	7448	0
Cu	65	1.049	ug/L	0.006	0	104	3873	1
Zn	66	1.383	ug/L	0.028	1	1041	4099	0
Zn	67	1.674	ug/L	0.069	4	189	835	3
Zn	68	2.427	ug/L	0.087	3	10219	12042	2
As-1	75	0.776	ug/L	0.012	1	-97	1566	2
As	75	0.944	ug/L	0.063	6	11864	11174	0
Se	82	0.535	ug/L	0.005	0	9	121	2
Se	78	1.217	ug/L	0.220	18	12167	10076	0
[Mo	98	0.057	ug/L	0.002	3	548	817	2
Y	89		ug/L			375211	314867	0
Kr	83		ug/L			87	76	8
> In	115		ug/L			546264	439990	1
Ag	107	0.004	ug/L	0.001	16	46	98	10
Cd	111	0.019	ug/L	0.005	25	251	267	5
Cd	114	0.013	ug/L	0.002	12	14	120	12
Sb	121	0.076	ug/L	0.001	1	50	971	0
Sb	123	0.076	ug/L	0.005	6	33	725	7
Ba	135	13.122	ug/L	0.180	1	13	37452	1
[Ba	137	13.371	ug/L	0.131	0	17	64460	0
> Tb	159		ug/L			525338	438518	1
Tl	205	0.006	ug/L	0.000	1	41	230	0
Pb	208	0.006	ug/L	0.001	9	298	533	3
Bi	209		ug/L			449045	362114	1
Th	232	0.028	ug/L	0.002	8	195	1814	8
[U	238	0.784	ug/L	0.011	1	30	50046	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU11 F REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 12:54:25

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>] Li	6		ug/L			483935	456860	1
[] Be	9	0.002	ug/L	0.006	283	3	4	69
[] C	13		mg/L			4400	7596	1
[] Cl	37		mg/L			2975540	2606335	0
[>] Sc	45		ug/L			341467	336968	1
[] V-1	51	0.824	ug/L	0.018	2	3084	16320	0
[] V	51	0.825	ug/L	0.014	1	1073	14655	0
[] Cr	52	0.271	ug/L	0.025	9	9261	12981	1
[] Cr	53	0.312	ug/L	0.012	3	403	934	1
[] Mn	55	105.379	ug/L	2.192	2	325	2593676	0
[] Co	59	0.112	ug/L	0.004	3	45	2177	3
[>] Ge	72		ug/L			509437	396001	0
[] Ni	60	8.313	ug/L	0.246	2	52	26889	2
[] Ni	62	6.746	ug/L	0.209	3	74	3414	2
[] Cu	63	1.018	ug/L	0.016	1	202	7765	1
[] Cu	65	1.066	ug/L	0.037	3	104	3962	3
[] Zn	66	0.638	ug/L	0.033	5	1041	2342	3
[] Zn	67	0.980	ug/L	0.048	4	189	553	3
[] Zn	68	1.706	ug/L	0.088	5	10219	10884	1
[] As-1	75	0.759	ug/L	0.013	1	-97	1541	1
[] As	75	0.938	ug/L	0.019	2	11864	11242	0
[] Se	82	0.577	ug/L	0.068	11	9	131	11
[] Se	78	1.313	ug/L	0.120	9	12167	10205	0
[] Mo	98	0.061	ug/L	0.007	11	548	849	6
[] Y	89		ug/L			375211	323284	0
[] Kr	83		ug/L			87	80	8
[>] In	115		ug/L			546264	457931	0
[] Ag	107	0.003	ug/L	0.001	36	46	77	17
[] Cd	111	0.019	ug/L	0.008	44	251	279	10
[] Cd	114	0.013	ug/L	0.001	9	14	125	8
[] Sb	121	0.067	ug/L	0.002	2	50	888	3
[] Sb	123	0.072	ug/L	0.002	2	33	718	2
[] Ba	135	12.809	ug/L	0.122	0	13	38051	0
[] Ba	137	12.867	ug/L	0.075	0	17	64567	0
[>] Tb	159		ug/L			525338	457262	0
[] Tl	205	0.005	ug/L	0.001	12	41	210	10
[] Pb	208	0.004	ug/L	0.000	5	298	429	2
[] Bi	209		ug/L			449045	369518	0
[] Th	232	0.011	ug/L	0.001	5	195	854	3
[] U	238	0.759	ug/L	0.008	1	30	50557	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU11 FSPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 13:00:56

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	472723	0
[Be	9	23.560	ug/L	0.388	1	3	12313	1
C	13		mg/L			4400	8149	1
Cl	37		mg/L			2975540	2650872	0
> Sc	45		ug/L			341467	354667	0
V-1	51	22.648	ug/L	0.167	0	3084	387514	1
V	51	22.609	ug/L	0.119	0	1073	393413	0
Cr	52	21.916	ug/L	0.125	0	9261	336776	1
Cr	53	21.848	ug/L	0.220	1	403	39942	0
Mn	55	127.418	ug/L	0.986	0	325	3301238	0
Co	59	21.498	ug/L	0.114	0	45	430420	0
> Ge	72		ug/L			509437	411105	0
Ni	60	35.490	ug/L	0.280	0	52	119039	0
Ni	62	33.311	ug/L	0.276	0	74	17267	0
Cu	63	27.533	ug/L	0.148	0	202	213812	0
Cu	65	27.171	ug/L	0.298	1	104	102778	0
Zn	66	79.498	ug/L	0.660	0	1041	198967	0
Zn	67	71.992	ug/L	0.563	0	189	31178	0
Zn	68	77.646	ug/L	0.669	0	10219	147200	0
As-1	75	25.803	ug/L	0.256	0	-97	56978	0
As	75	25.693	ug/L	0.294	1	11864	67025	0
Se	82	81.653	ug/L	0.617	0	9	18190	0
Se	78	78.862	ug/L	0.697	0	12167	56395	0
Mo	98	28.605	ug/L	0.499	1	548	206573	0
Y	89		ug/L			375211	341044	0
Kr	83		ug/L			87	72	8
> In	115		ug/L			546264	479309	0
Ag	107	24.760	ug/L	0.238	0	46	383558	0
Cd	111	24.858	ug/L	0.139	0	251	95545	0
Cd	114	24.737	ug/L	0.186	0	14	227088	0
Sb	121	23.905	ug/L	0.183	0	50	317897	1
Sb	123	23.782	ug/L	0.180	0	33	238837	0
Ba	135	37.335	ug/L	0.192	0	13	116066	0
Ba	137	37.966	ug/L	0.218	0	17	199380	0
> Tb	159		ug/L			525338	479071	0
Tl	205	23.541	ug/L	0.220	0	41	852703	0
Pb	208	24.050	ug/L	0.222	0	298	1181459	0
Bi	209		ug/L			449045	384548	0
Th	232	23.878	ug/L	0.055	0	195	1516694	0
U	238	24.998	ug/L	0.313	1	30	1743512	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU11 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 13:07:28

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	471755	0
[Be	9	0.003	ug/L	0.005	141	3	5	50
C	13		mg/L			4400	10094	0
Cl	37		mg/L			2975540	2674484	0
> Sc	45		ug/L			341467	314632	0
V-1	51	0.835	ug/L	0.008	0	3084	15417	1
V	51	0.803	ug/L	0.008	0	1073	13348	1
Cr	52	0.372	ug/L	0.011	2	9261	13456	0
Cr	53	0.304	ug/L	0.014	4	403	858	2
Mn	55	32.444	ug/L	0.216	0	325	745905	0
[Co	59	0.245	ug/L	0.001	0	45	4389	1
> Ge	72		ug/L			509437	409661	0
Ni	60	4.673	ug/L	0.044	0	52	15654	0
Ni	62	2.790	ug/L	0.117	4	74	1495	3
Cu	63	1.587	ug/L	0.040	2	202	12437	3
Cu	65	1.316	ug/L	0.027	2	104	5041	2
Zn	66	0.764	ug/L	0.040	5	1041	2735	3
Zn	67	1.554	ug/L	0.024	1	189	819	0
Zn	68	1.577	ug/L	0.068	4	10219	11029	1
As-1	75	0.649	ug/L	0.019	2	-97	1351	2
As	75	0.477	ug/L	0.058	12	11864	10602	0
Se	82	1.194	ug/L	0.047	3	9	272	3
Se	78	0.564	ug/L	0.225	39	12167	10115	0
[Mo	98	-0.002	ug/L	0.003	200	548	429	6
Y	89		ug/L			375211	400589	0
Kr	83		ug/L			87	80	8
> In	115		ug/L			546264	468630	0
Ag	107	0.009	ug/L	0.002	17	46	178	13
Cd	111	0.043	ug/L	0.012	29	251	375	12
Cd	114	0.029	ug/L	0.002	5	14	276	5
Sb	121	0.140	ug/L	0.003	2	50	1858	3
Sb	123	0.142	ug/L	0.002	1	33	1425	1
Ba	135	31.848	ug/L	0.090	0	13	96808	1
[Ba	137	32.311	ug/L	0.270	0	17	165901	0
> Tb	159		ug/L			525338	477592	1
Tl	205	0.006	ug/L	0.000	6	41	241	6
Pb	208	0.014	ug/L	0.000	2	298	969	2
Bi	209		ug/L			449045	378242	1
Th	232	0.036	ug/L	0.004	10	195	2489	10
[U	238	0.086	ug/L	0.001	1	30	5998	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU11 C REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 13:14:00

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	471022	0
[Be	9	0.004	ug/L	0.010	239	3	5	96
C	13		mg/L			4400	8806	2
Cl	37		mg/L			2975540	2678726	1
> Sc	45		ug/L			341467	309423	0
V-1	51	0.970	ug/L	0.010	1	3084	17159	0
V	51	0.980	ug/L	0.004	0	1073	15807	0
Cr	52	0.629	ug/L	0.025	3	9261	16586	2
Cr	53	0.682	ug/L	0.019	2	403	1441	2
Mn	55	67.600	ug/L	0.776	1	325	1528174	1
Co	59	0.155	ug/L	0.004	2	45	2753	3
> Ge	72		ug/L			509437	410187	0
Ni	60	2.533	ug/L	0.011	0	52	8517	0
Ni	62	1.991	ug/L	0.026	1	74	1086	1
Cu	63	2.928	ug/L	0.027	0	202	22836	1
Cu	65	2.850	ug/L	0.032	1	104	10830	1
Zn	66	6.424	ug/L	0.061	0	1041	16813	1
Zn	67	5.836	ug/L	0.147	2	189	2661	2
Zn	68	6.689	ug/L	0.090	1	10219	20172	1
As-1	75	1.221	ug/L	0.015	1	-97	2615	1
As	75	1.272	ug/L	0.071	5	11864	12390	1
Se	82	0.279	ug/L	0.017	5	9	69	5
Se	78	0.520	ug/L	0.250	48	12167	10103	1
Mo	98	0.393	ug/L	0.003	0	548	3270	0
Y	89		ug/L			375211	325379	0
Kr	83		ug/L			87	73	7
> In	115		ug/L			546264	470312	0
Ag	107	0.006	ug/L	0.000	7	46	135	5
Cd	111	0.023	ug/L	0.002	7	251	302	1
Cd	114	0.013	ug/L	0.001	4	14	129	3
Sb	121	0.315	ug/L	0.007	2	50	4149	2
Sb	123	0.318	ug/L	0.007	2	33	3162	1
Ba	135	10.731	ug/L	0.150	1	13	32743	1
Ba	137	10.801	ug/L	0.055	0	17	55666	0
> Tb	159		ug/L			525338	474557	0
Tl	205	0.002	ug/L	0.000	14	41	118	9
Pb	208	0.651	ug/L	0.003	0	298	31926	0
Bi	209		ug/L			449045	389599	1
Th	232	0.018	ug/L	0.000	1	195	1308	1
U	238	0.052	ug/L	0.001	1	30	3631	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU11 D REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 13:20:32

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	466249	0
[Be	9	0.003	ug/L	0.005	138	3	5	50
C	13		mg/L			4400	8531	0
Cl	37		mg/L			2975540	2620279	0
> Sc	45		ug/L			341467	303284	0
V-1	51	0.971	ug/L	0.020	2	3084	16826	1
V	51	0.990	ug/L	0.009	0	1073	15640	0
Cr	52	0.642	ug/L	0.009	1	9261	16416	1
Cr	53	0.722	ug/L	0.041	5	403	1475	4
Mn	55	59.370	ug/L	0.736	1	325	1315567	1
[Co	59	0.151	ug/L	0.004	2	45	2624	3
> Ge	72		ug/L			509437	401241	1
Ni	60	2.538	ug/L	0.075	2	52	8347	3
Ni	62	2.044	ug/L	0.039	1	74	1088	2
Cu	63	2.703	ug/L	0.031	1	202	20633	0
Cu	65	2.634	ug/L	0.036	1	104	9799	0
Zn	66	5.665	ug/L	0.084	1	1041	14600	0
Zn	67	5.387	ug/L	0.102	1	189	2415	2
Zn	68	6.095	ug/L	0.132	2	10219	18693	0
As-1	75	1.258	ug/L	0.008	0	-97	2638	1
As	75	1.387	ug/L	0.031	2	11864	12372	0
Se	82	0.310	ug/L	0.055	17	9	75	16
Se	78	0.854	ug/L	0.111	13	12167	10074	0
[Mo	98	0.399	ug/L	0.001	0	548	3237	0
Y	89		ug/L			375211	323641	0
Kr	83		ug/L			87	72	10
> In	115		ug/L			546264	457179	1
Ag	107	0.005	ug/L	0.001	11	46	112	8
Cd	111	0.021	ug/L	0.002	11	251	288	1
Cd	114	0.013	ug/L	0.001	9	14	128	8
Sb	121	0.321	ug/L	0.006	1	50	4116	2
Sb	123	0.319	ug/L	0.005	1	33	3080	2
Ba	135	10.868	ug/L	0.083	0	13	32233	1
[Ba	137	11.008	ug/L	0.141	1	17	55147	0
> Tb	159		ug/L			525338	472629	1
Tl	205	0.002	ug/L	0.000	10	41	110	8
Pb	208	0.612	ug/L	0.009	1	298	29903	0
Bi	209		ug/L			449045	386174	0
Th	232	0.013	ug/L	0.001	5	195	995	5
[U	238	0.053	ug/L	0.001	2	30	3663	1

ST98 : 01237

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU11 G REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 13:27:10

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	456947	1
[Be	9	0.003	ug/L	0.008	264	3	4	83
C	13		mg/L			4400	9454	1
Cl	37		mg/L			2975540	2599390	0
> Sc	45		ug/L			341467	303224	0
V-1	51	0.777	ug/L	0.013	1	3084	14011	1
V	51	0.738	ug/L	0.002	0	1073	11904	0
Cr	52	0.349	ug/L	0.019	5	9261	12673	2
Cr	53	0.259	ug/L	0.023	8	403	758	5
Mn	55	32.091	ug/L	0.564	1	325	711061	1
[Co	59	0.238	ug/L	0.005	2	45	4110	1
> Ge	72		ug/L			509437	397494	0
Ni	60	4.409	ug/L	0.053	1	52	14336	1
Ni	62	2.627	ug/L	0.068	2	74	1370	3
Cu	63	1.515	ug/L	0.027	1	202	11520	0
Cu	65	1.258	ug/L	0.039	3	104	4677	3
Zn	66	0.694	ug/L	0.014	2	1041	2485	2
Zn	67	1.496	ug/L	0.031	2	189	770	1
Zn	68	1.579	ug/L	0.118	7	10219	10704	1
As-1	75	0.578	ug/L	0.016	2	-97	1160	3
As	75	0.559	ug/L	0.060	10	11864	10464	0
Se	82	0.936	ug/L	0.037	3	9	209	4
Se	78	0.892	ug/L	0.254	28	12167	10002	0
[Mo	98	-0.002	ug/L	0.004	194	548	412	7
Y	89		ug/L			375211	389320	0
Kr	83		ug/L			87	78	4
> In	115		ug/L			546264	455014	1
Ag	107	0.001	ug/L	0.001	63	46	58	22
Cd	111	0.031	ug/L	0.010	33	251	322	10
Cd	114	0.030	ug/L	0.002	5	14	269	5
Sb	121	0.130	ug/L	0.002	1	50	1682	0
Sb	123	0.129	ug/L	0.006	4	33	1255	6
Ba	135	31.052	ug/L	0.227	0	13	91640	0
[Ba	137	31.556	ug/L	0.121	0	17	157323	1
> Tb	159		ug/L			525338	461226	1
Tl	205	0.004	ug/L	0.000	9	41	170	7
Pb	208	0.007	ug/L	0.000	3	298	598	3
Bi	209		ug/L			449045	371386	1
Th	232	0.004	ug/L	0.001	19	195	409	12
[U	238	0.082	ug/L	0.002	2	30	5557	2

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV4

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 13:33:44

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	476212	1
[Be	9	48.801	ug/L	1.203	2	3	25687	1
C	13		mg/L			4400	4025	1
Cl	37		mg/L			2975540	2786337	0
> Sc	45		ug/L			341467	291387	0
V-1	51	50.812	ug/L	0.601	1	3084	710987	0
V	51	50.911	ug/L	0.570	1	1073	726646	0
Cr	52	51.521	ug/L	0.340	0	9261	639770	0
Cr	53	51.777	ug/L	0.414	0	403	77301	0
Mn	55	50.589	ug/L	0.388	0	325	1076986	0
[Co	59	51.388	ug/L	0.222	0	45	845264	0
> Ge	72		ug/L			509437	425576	0
Ni	60	52.922	ug/L	0.510	0	52	183738	0
Ni	62	52.042	ug/L	0.566	1	74	27892	0
Cu	63	52.735	ug/L	0.474	0	202	423777	0
Cu	65	51.823	ug/L	0.828	1	104	202865	1
Zn	66	52.947	ug/L	0.490	0	1041	137479	1
Zn	67	52.395	ug/L	0.053	0	189	23534	0
Zn	68	52.051	ug/L	0.571	1	10219	104966	0
As-1	75	50.439	ug/L	0.336	0	-97	115382	0
As	75	50.114	ug/L	0.356	0	11864	125921	0
Se	82	52.914	ug/L	0.232	0	9	12206	0
Se	78	51.601	ug/L	0.360	0	12167	41714	0
[Mo	98	53.936	ug/L	0.128	0	548	402846	0
Y	89		ug/L			375211	331642	0
Kr	83		ug/L			87	83	2
> In	115		ug/L			546264	473626	0
Ag	107	50.879	ug/L	0.052	0	46	778813	0
Cd	111	51.166	ug/L	0.994	1	251	194090	1
Cd	114	50.984	ug/L	0.445	0	14	462467	0
Sb	121	49.817	ug/L	0.680	1	50	654520	0
Sb	123	49.715	ug/L	0.461	0	33	493309	0
Ba	135	49.304	ug/L	0.185	0	13	151454	0
[Ba	137	49.619	ug/L	0.629	1	17	257467	0
> Tb	159		ug/L			525338	475980	0
Tl	205	47.539	ug/L	0.511	1	41	1710830	0
Pb	208	48.672	ug/L	0.144	0	298	2375450	0
Bi	209		ug/L			449045	399405	0
Th	232	50.834	ug/L	0.688	1	195	3207836	1
[U	238	51.039	ug/L	0.204	0	30	3537022	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB4

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 13:40:56

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	490176	1
[Be	9	-0.001	ug/L	0.006	756	3	2	107
C	13		mg/L			4400	4269	1
Cl	37		mg/L			2975540	2874914	0
> Sc	45		ug/L			341467	303304	0
V-1	51	0.012	ug/L	0.004	36	3084	2909	1
V	51	-0.003	ug/L	0.003	90	1073	912	4
Cr	52	0.044	ug/L	0.004	8	9261	8782	0
Cr	53	-0.003	ug/L	0.014	484	403	353	6
Mn	55	0.003	ug/L	0.000	6	325	349	1
Co	59	0.002	ug/L	0.001	63	45	78	31
> Ge	72		ug/L			509437	443777	0
Ni	60	0.001	ug/L	0.002	162	52	50	15
Ni	62	0.035	ug/L	0.017	47	74	84	11
Cu	63	0.000	ug/L	0.001	275	202	180	4
Cu	65	0.006	ug/L	0.001	22	104	114	5
Zn	66	-0.264	ug/L	0.005	1	1041	197	6
Zn	67	-0.211	ug/L	0.023	11	189	66	16
Zn	68	-0.147	ug/L	0.023	15	10219	8618	1
As-1	75	-0.012	ug/L	0.020	164	-97	-113	42
As	75	0.084	ug/L	0.068	80	11864	10537	0
Se	82	0.016	ug/L	0.042	255	9	12	81
Se	78	0.376	ug/L	0.235	62	12167	10837	0
Mo	98	-0.043	ug/L	0.004	9	548	140	23
Y	89		ug/L			375211	347251	0
Kr	83		ug/L			87	75	8
> In	115		ug/L			546264	495890	1
Ag	107	0.009	ug/L	0.000	0	46	182	1
Cd	111	0.014	ug/L	0.002	15	251	283	1
Cd	114	0.002	ug/L	0.000	9	14	34	5
Sb	121	0.052	ug/L	0.014	26	50	765	23
Sb	123	0.052	ug/L	0.011	21	33	570	19
Ba	135	0.001	ug/L	0.001	124	13	15	25
Ba	137	0.002	ug/L	0.001	25	17	28	11
> Tb	159		ug/L			525338	490621	0
Tl	205	0.003	ug/L	0.001	17	41	157	13
Pb	208	0.002	ug/L	0.000	20	298	389	4
Bi	209		ug/L			449045	422735	0
Th	232	0.044	ug/L	0.005	10	195	3032	8
U	238	0.004	ug/L	0.001	32	30	304	28

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST77 MB SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Friday, May 06, 2011 13:48:39

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	475247	0
[Be	9	-0.003	ug/L	0.001	45	3	1	43
C	13		mg/L			4400	5912	0
Cl	37		mg/L			2975540	2944824	0
> Sc	45		ug/L			341467	299592	1
V-1	51	0.026	ug/L	0.003	12	3084	3083	1
V	51	-0.001	ug/L	0.002	134	1073	921	3
Cr	52	0.108	ug/L	0.011	10	9261	9490	1
Cr	53	0.018	ug/L	0.005	27	403	380	1
Mn	55	0.005	ug/L	0.000	7	325	401	1
Co	59	0.001	ug/L	0.000	23	45	50	5
> Ge	72		ug/L			509437	427349	0
Ni	60	0.003	ug/L	0.002	64	52	54	12
Ni	62	0.055	ug/L	0.021	38	74	91	12
Cu	63	0.004	ug/L	0.001	34	202	203	5
Cu	65	0.010	ug/L	0.002	22	104	126	7
Zn	66	-0.050	ug/L	0.005	9	1041	743	1
Zn	67	-0.044	ug/L	0.040	91	189	139	12
Zn	68	0.344	ug/L	0.075	21	10219	9211	1
As-1	75	-0.014	ug/L	0.009	62	-97	-114	17
As	75	0.323	ug/L	0.029	8	11864	10702	0
Se	82	-0.001	ug/L	0.034	2356	9	7	99
Se	78	1.287	ug/L	0.129	10	12167	10996	0
Mo	98	-0.056	ug/L	0.001	1	548	44	11
Y	89		ug/L			375211	335773	1
Kr	83		ug/L			87	77	6
> In	115		ug/L			546264	483817	1
Ag	107	0.002	ug/L	0.001	38	46	65	15
Cd	111	0.011	ug/L	0.005	43	251	264	8
Cd	114	0.001	ug/L	0.001	46	14	24	21
Sb	121	0.013	ug/L	0.002	13	50	223	11
Sb	123	0.014	ug/L	0.002	16	33	171	14
Ba	135	0.005	ug/L	0.003	48	13	28	28
Ba	137	0.004	ug/L	0.001	23	17	39	13
> Tb	159		ug/L			525338	473006	0
Tl	205	0.001	ug/L	0.000	21	41	60	8
Pb	208	0.002	ug/L	0.001	27	298	363	6
Bi	209		ug/L			449045	405548	0
Th	232	0.011	ug/L	0.001	6	195	845	5
U	238	0.000	ug/L	0.000	13	30	60	7

ST98: 01241

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST77 MBSPK SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Friday, May 06, 2011 13:55:13

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	491664	1
[Be	9	23.195	ug/L	0.643	2	3	12607	2
C	13		mg/L			4400	5516	0
Cl	37		mg/L			2975540	2973060	0
> Sc	45		ug/L			341467	308301	0
V-1	51	24.753	ug/L	0.209	0	3084	367908	1
V	51	24.856	ug/L	0.101	0	1073	375876	0
Cr	52	25.655	ug/L	0.078	0	9261	341266	0
Cr	53	25.911	ug/L	0.292	1	403	41110	0
Mn	55	25.207	ug/L	0.094	0	325	567947	0
[Co	59	26.062	ug/L	0.018	0	45	453581	0
> Ge	72		ug/L			509437	448250	0
Ni	60	26.861	ug/L	0.291	1	52	98248	1
Ni	62	26.524	ug/L	0.225	0	74	15006	1
Cu	63	27.392	ug/L	0.291	1	202	231931	0
Cu	65	27.218	ug/L	0.221	0	104	112266	0
Zn	66	82.333	ug/L	0.525	0	1041	224660	0
Zn	67	74.066	ug/L	0.383	0	189	34972	0
Zn	68	79.543	ug/L	1.047	1	10219	164207	1
As-1	75	24.423	ug/L	0.102	0	-97	58802	0
As	75	24.506	ug/L	0.169	0	11864	70193	0
Se	82	81.239	ug/L	0.481	0	9	19734	0
Se	78	79.177	ug/L	0.295	0	12167	61695	0
[Mo	98	26.247	ug/L	0.353	1	548	206724	0
Y	89		ug/L			375211	347492	0
Kr	83		ug/L			87	88	3
> In	115		ug/L			546264	501448	0
Ag	107	25.413	ug/L	0.378	1	46	411843	0
Cd	111	25.053	ug/L	0.407	1	251	100733	0
Cd	114	24.897	ug/L	0.325	1	14	239108	0
Sb	121	24.233	ug/L	0.136	0	50	337123	0
Sb	123	24.336	ug/L	0.257	1	33	255676	0
Ba	135	24.183	ug/L	0.173	0	13	78660	1
[Ba	137	24.345	ug/L	0.117	0	17	133755	0
> Tb	159		ug/L			525338	490626	0
Tl	205	24.133	ug/L	0.182	0	41	895238	0
Pb	208	24.681	ug/L	0.163	0	298	1241736	0
Bi	209		ug/L			449045	425600	0
Th	232	23.759	ug/L	0.157	0	195	1545588	0
[U	238	23.979	ug/L	0.171	0	30	1712940	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU11 H REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 14:01:47

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	476109	1
[Be	9	0.003	ug/L	0.005	148	3	5	50
C	13		mg/L			4400	8113	0
Cl	37		mg/L			2975540	2777422	1
> Sc	45		ug/L			341467	317676	2
V-1	51	0.768	ug/L	0.030	3	3084	14541	1
V	51	0.785	ug/L	0.033	4	1073	13192	1
Cr	52	0.507	ug/L	0.002	0	9261	15392	2
Cr	53	0.576	ug/L	0.014	2	403	1308	0
Mn	55	46.587	ug/L	0.325	0	325	1081196	1
[Co	59	0.124	ug/L	0.007	5	45	2270	5
> Ge	72		ug/L			509437	423473	1
Ni	60	2.379	ug/L	0.013	0	52	8258	1
Ni	62	1.854	ug/L	0.037	1	74	1048	3
Cu	63	2.161	ug/L	0.030	1	202	17445	2
Cu	65	2.108	ug/L	0.042	1	104	8290	0
Zn	66	4.402	ug/L	0.079	1	1041	12163	0
Zn	67	4.161	ug/L	0.136	3	189	2004	4
Zn	68	4.557	ug/L	0.114	2	10219	16894	2
As-1	75	1.074	ug/L	0.010	0	-97	2366	1
As	75	1.032	ug/L	0.063	6	11864	12239	1
Se	82	0.304	ug/L	0.024	7	9	77	7
Se	78	0.177	ug/L	0.235	132	12167	10221	1
[Mo	98	0.387	ug/L	0.010	2	548	3330	1
Y	89		ug/L			375211	338757	1
Kr	83		ug/L			87	73	4
> In	115		ug/L			546264	475602	1
Ag	107	0.053	ug/L	0.002	3	46	857	3
Cd	111	0.319	ug/L	0.035	11	251	1432	10
Cd	114	0.012	ug/L	0.001	9	14	117	7
Sb	121	0.327	ug/L	0.002	0	50	4355	1
Sb	123	0.320	ug/L	0.009	2	33	3212	1
Ba	135	9.943	ug/L	0.134	1	13	30676	0
[Ba	137	10.115	ug/L	0.074	0	17	52717	1
> Tb	159		ug/L			525338	480608	1
Tl	205	0.006	ug/L	0.001	9	41	254	9
Pb	208	0.250	ug/L	0.006	2	298	12595	2
Bi	209		ug/L			449045	401753	1
Th	232	0.055	ug/L	0.002	3	195	3690	4
[U	238	0.054	ug/L	0.001	1	30	3833	3

ST98 : 01243

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU11 I REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 14:08:22

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	472526	1
[Be	9	0.007	ug/L	0.001	19	3	7	10
C	13		mg/L			4400	8545	1
Cl	37		mg/L			2975540	2721938	0
> Sc	45		ug/L			341467	306973	1
V-1	51	0.769	ug/L	0.028	3	3084	14066	3
V	51	0.786	ug/L	0.008	0	1073	12772	1
Cr	52	0.505	ug/L	0.027	5	9261	14847	2
Cr	53	0.576	ug/L	0.059	10	403	1263	6
Mn	55	46.141	ug/L	0.059	0	325	1034890	1
Co	59	0.116	ug/L	0.004	3	45	2056	2
> Ge	72		ug/L			509437	413327	0
Ni	60	2.309	ug/L	0.045	1	52	7826	1
Ni	62	1.778	ug/L	0.043	2	74	983	2
Cu	63	2.252	ug/L	0.026	1	202	17731	0
Cu	65	2.170	ug/L	0.015	0	104	8331	1
Zn	66	4.140	ug/L	0.099	2	1041	11218	1
Zn	67	3.983	ug/L	0.103	2	189	1879	1
Zn	68	4.478	ug/L	0.105	2	10219	16346	0
As-1	75	1.073	ug/L	0.012	1	-97	2305	1
As	75	1.046	ug/L	0.027	2	11864	11978	0
Se	82	0.296	ug/L	0.022	7	9	74	7
Se	78	0.256	ug/L	0.130	50	12167	10023	0
[Mo	98	0.361	ug/L	0.012	3	548	3059	1
Y	89		ug/L			375211	325201	0
Kr	83		ug/L			87	77	0
> In	115		ug/L			546264	466882	0
Ag	107	0.006	ug/L	0.000	4	46	122	1
Cd	111	0.018	ug/L	0.008	42	251	283	11
Cd	114	0.010	ug/L	0.001	13	14	100	10
Sb	121	0.305	ug/L	0.001	0	50	3992	1
Sb	123	0.304	ug/L	0.008	2	33	3000	3
Ba	135	9.779	ug/L	0.117	1	13	29619	1
[Ba	137	9.927	ug/L	0.141	1	17	50795	2
> Tb	159		ug/L			525338	470796	1
Tl	205	0.003	ug/L	0.000	3	41	143	2
Pb	208	0.250	ug/L	0.002	0	298	12358	0
Bi	209		ug/L			449045	394780	0
Th	232	0.021	ug/L	0.001	2	195	1472	1
[U	238	0.052	ug/L	0.001	1	30	3578	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST89 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 14:14:57

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	469203	0
[Be	9	V 0.002	ug/L	0.006	308	3	4	69
C	13		mg/L			4400	6763	0
Cl	37		mg/L			2975540	2637999	0
> Sc	45		ug/L			341467	327118	0
V-1	51	0.535	ug/L	0.007	1	3084	11334	0
V	51	0.561	ug/L	0.003	0	1073	10000	0
Cr	52	0.162	ug/L	0.009	5	9261	11097	1
Cr	53	✓ 0.264	ug/L	0.016	5	403	827	3
Mn	55	35.490	ug/L	0.513	1	325	848359	2
Co	59	0.179	ug/L	0.001	0	45	3342	0
> Ge	72		ug/L			509437	410419	0
Ni	60	1.109	ug/L	0.027	2	52	3753	2
Ni	62	0.666	ug/L	0.031	4	74	403	4
Cu	63	1.369	ug/L	0.008	0	202	10768	1
Cu	65	1.301	ug/L	0.012	0	104	4992	0
Zn	66	8.225	ug/L	0.178	2	1041	21304	2
Zn	67	7.246	ug/L	0.058	0	189	3270	1
Zn	68	8.508	ug/L	0.114	1	10219	23433	0
As-1	75	0.175	ug/L	0.006	3	-97	307	3
As	75	0.191	ug/L	0.071	37	11864	9984	1
Se	82	0.162	ug/L	0.040	24	9	43	19
Se	78	0.228	ug/L	0.267	116	12167	9936	1
Mo	98	-0.002	ug/L	0.005	250	548	428	8
Y	89		ug/L			375211	329211	0
Kr	83		ug/L			87	71	10
> In	115		ug/L			546264	466821	0
Ag	107	0.002	ug/L	0.001	31	46	66	12
Cd	111	0.002	ug/L	0.004	179	251	223	6
Cd	114	0.005	ug/L	0.001	24	14	57	18
Sb	121	0.018	ug/L	0.002	9	50	272	8
Sb	123	0.016	ug/L	0.002	11	33	189	9
Ba	135	3.804	ug/L	0.041	1	13	11527	0
Ba	137	3.820	ug/L	0.039	1	17	19549	0
> Tb	159		ug/L			525338	474980	0
Tl	205	0.003	ug/L	0.001	21	41	137	15
Pb	208	0.009	ug/L	0.000	3	298	716	2
Bi	209		ug/L			449045	395743	0
Th	232	0.010	ug/L	0.001	12	195	828	9
U	238	0.011	ug/L	0.001	4	30	822	4

ST98 : 01245

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST77 A SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Friday, May 06, 2011 14:21:33

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	471324	0
[Be	9	0.274	ug/L	0.024	8	3	145	9
C	13		mg/L			4400	7138	1
Cl	37		mg/L			2975540	2698186	0
> Sc	45		ug/L			341467	353327	0
V-1	51	42.811	ug/L	0.221	0	3084	726887	0
V	51	42.178	ug/L	0.188	0	1073	730162	0
Cr	52	13.597	ug/L	0.185	1	9261	211776	1
Cr	53	13.628	ug/L	0.113	0	403	24978	0
Mn	55	126.758	ug/L	1.488	1	325	3271641	0
Co	59	5.346	ug/L	0.087	1	45	106666	1
> Ge	72		ug/L			509437	428860	0
Ni	60	13.589	ug/L	0.129	0	52	47574	0
Ni	62	19.590	ug/L	0.029	0	74	10620	0
Cu	63	27.225	ug/L	0.170	0	202	220543	0
Cu	65	27.326	ug/L	0.238	0	104	107832	0
Zn	66	44.191	ug/L	0.404	0	1041	115774	1
Zn	67	44.556	ug/L	0.056	0	189	20191	0
Zn	68	42.729	ug/L	0.549	1	10219	88378	1
As-1	75	4.945	ug/L	0.033	0	-97	11324	1
As	75	4.866	ug/L	0.018	0	11864	21338	0
Se	82	0.144	ug/L	0.038	26	9	41	20
Se	78	0.249	ug/L	0.210	84	12167	10395	0
Mo	98	0.309	ug/L	0.004	1	548	2787	0
Y	89		ug/L			375211	588114	0
Kr	83		ug/L			87	122	4
> In	115		ug/L			546264	479910	0
Ag	107	0.124	ug/L	0.003	2	46	1963	2
Cd	111	0.685	ug/L	0.022	3	251	2851	2
Cd	114	0.102	ug/L	0.003	3	14	952	3
Sb	121	0.015	ug/L	0.000	2	50	240	1
Sb	123	0.016	ug/L	0.003	16	33	187	14
Ba	135	45.859	ug/L	0.134	0	13	142744	0
Ba	137	46.300	ug/L	0.264	0	17	243449	0
> Tb	159		ug/L			525338	486240	0
Tl	205	0.064	ug/L	0.000	0	41	2375	0
Pb	208	6.023	ug/L	0.021	0	298	300537	0
Bi	209		ug/L			449045	412187	0
Th	232	1.265	ug/L	0.007	0	195	81741	0
U	238	0.427	ug/L	0.002	0	30	30230	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST77 B SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Friday, May 06, 2011 14:28:10

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	481835	0
[Be	9	0.147	ug/L	0.016	11	3	81	11
C	13	V	mg/L			4400	5611	2
Cl	37		mg/L			2975540	2714492	0
> Sc	45		ug/L			341467	335292	0
V-1	51	29.281	ug/L	0.414	1	3084	472725	1
V	51	28.846	ug/L	0.418	1	1073	474209	1
Cr	52	9.200	ug/L	0.155	1	9261	138912	1
Cr	53	9.225	ug/L	0.258	2	403	16171	2
Mn	55	114.677	ug/L	1.482	1	325	2808869	1
[Co	59	3.777	ug/L	0.020	0	45	71528	0
> Ge	72		ug/L			509437	438590	0
Ni	60	9.504	ug/L	0.073	0	52	34042	0
Ni	62	14.392	ug/L	0.274	1	74	7996	2
Cu	63	14.418	ug/L	0.066	0	202	119538	1
Cu	65	14.450	ug/L	0.172	1	104	58364	2
Zn	66	30.131	ug/L	0.092	0	1041	81015	1
Zn	67	30.247	ug/L	0.241	0	189	14069	0
Zn	68	29.027	ug/L	0.106	0	10219	64219	0
As-1	75	3.004	ug/L	0.027	0	-97	7002	0
As	75	2.938	ug/L	0.054	1	11864	17223	0
Se	82	0.079	ug/L	0.024	30	9	27	20
Se	78	0.056	ug/L	0.157	280	12167	10509	0
[Mo	98	0.122	ug/L	0.008	6	548	1407	4
Y	89		ug/L			375211	493730	0
Kr	83		ug/L			87	100	7
> In	115		ug/L			546264	483732	1
Ag	107	0.052	ug/L	0.002	3	46	853	4
Cd	111	0.316	ug/L	0.017	5	251	1446	5
Cd	114	0.048	ug/L	0.001	1	14	456	0
Sb	121	0.016	ug/L	0.001	5	50	260	3
Sb	123	0.018	ug/L	0.003	14	33	213	11
Ba	135	31.522	ug/L	0.405	1	13	98893	0
[Ba	137	31.579	ug/L	0.787	2	17	167338	1
> Tb	159		ug/L			525338	490174	0
Tl	205	0.038	ug/L	0.002	3	41	1460	3
Pb	208	4.004	ug/L	0.029	0	298	201501	0
Bi	209		ug/L			449045	416133	0
Th	232	0.856	ug/L	0.004	0	195	55833	0
[U	238	0.228	ug/L	0.001	0	30	16311	1

ST98 : 01247

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST77 C SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Friday, May 06, 2011 14:34:46

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	478564	1
[Be	9	0.134	ug/L	0.007	4	3	74	4
C	13		mg/L			4400	5994	0
Cl	37		mg/L			2975540	2728104	0
> Sc	45		ug/L			341467	324968	0
V-1	51	30.590	ug/L	0.387	1	3084	478514	0
V	51	30.147	ug/L	0.347	1	1073	480273	0
Cr	52	8.845	ug/L	0.043	0	9261	129799	1
Cr	53	8.956	ug/L	0.171	1	403	15229	2
Mn	55	160.909	ug/L	1.529	0	325	3819750	1
Co	59	3.702	ug/L	0.018	0	45	67959	1
> Ge	72		ug/L			509437	440938	0
Ni	60	8.402	ug/L	0.155	1	52	30260	1
Ni	62	12.783	ug/L	0.275	2	74	7147	2
Cu	63	12.030	ug/L	0.135	1	202	100296	1
Cu	65	12.225	ug/L	0.090	0	104	49650	0
Zn	66	21.229	ug/L	0.022	0	1041	57651	0
Zn	67	22.317	ug/L	0.350	1	189	10479	1
Zn	68	20.487	ug/L	0.088	0	10219	48170	0
As-1	75	1.731	ug/L	0.023	1	-97	4021	1
As	75	1.692	ug/L	0.025	1	11864	14327	0
Se	82	0.082	ug/L	0.025	31	9	28	21
Se	78	0.087	ug/L	0.080	92	12167	10586	0
Mo	98	0.113	ug/L	0.006	5	548	1346	3
Y	89		ug/L			375211	478671	1
Kr	83		ug/L			87	96	4
> In	115		ug/L			546264	491476	1
Ag	107	0.042	ug/L	0.002	3	46	711	4
Cd	111	0.273	ug/L	0.013	4	251	1298	4
Cd	114	0.034	ug/L	0.003	9	14	329	8
Sb	121	0.005	ug/L	0.001	16	50	118	10
Sb	123	0.007	ug/L	0.002	30	33	100	21
Ba	135	28.011	ug/L	0.291	1	13	89288	0
Ba	137	28.248	ug/L	0.413	1	17	152102	0
> Tb	159		ug/L			525338	490753	0
Tl	205	0.030	ug/L	0.000	0	41	1141	1
Pb	208	1.411	ug/L	0.011	0	298	71270	0
Bi	209		ug/L			449045	415656	0
Th	232	0.805	ug/L	0.010	1	195	52521	0
U	238	0.182	ug/L	0.002	1	30	13014	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST77 D SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Friday, May 06, 2011 14:41:20

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldat\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	477903	0
[Be	9	0.182	ug/L	0.022	12	3	99	11
C	13		mg/L			4400	5861	0
Cl	37		mg/L			2975540	2722831	0
> Sc	45		ug/L			341467	346657	1
V-1	51	33.590	ug/L	0.625	1	3084	560154	0
V	51	33.332	ug/L	0.572	1	1073	566296	0
Cr	52	18.598	ug/L	0.205	1	9261	280732	0
Cr	53	18.820	ug/L	0.078	0	403	33687	1
Mn	55	188.268	ug/L	1.907	1	325	4767112	0
Co	59	5.938	ug/L	0.030	0	45	116243	1
> Ge	72		ug/L			509437	437865	0
Ni	60	29.132	ug/L	0.203	0	52	104080	0
Ni	62	35.556	ug/L	0.229	0	74	19627	0
Cu	63	16.603	ug/L	0.274	1	202	137384	1
Cu	65	16.784	ug/L	0.042	0	104	67659	0
Zn	66	31.334	ug/L	0.190	0	1041	84073	0
Zn	67	32.125	ug/L	0.395	1	189	14908	0
Zn	68	30.717	ug/L	0.413	1	10219	67329	0
As-1	75	2.847	ug/L	0.039	1	-97	6621	1
As	75	2.855	ug/L	0.025	0	11864	16998	0
Se	82	0.063	ug/L	0.033	52	9	23	34
Se	78	0.334	ug/L	0.072	21	12167	10667	0
Mo	98	0.127	ug/L	0.002	1	548	1444	0
Y	89		ug/L			375211	512430	0
Kr	83		ug/L			87	105	3
> In	115		ug/L			546264	484022	0
Ag	107	0.068	ug/L	0.002	2	46	1108	2
Cd	111	0.333	ug/L	0.014	4	251	1510	3
Cd	114	0.059	ug/L	0.001	2	14	562	2
Sb	121	0.014	ug/L	0.002	15	50	227	12
Sb	123	0.014	ug/L	0.002	12	33	172	10
Ba	135	42.460	ug/L	0.067	0	13	133297	0
[Ba	137	42.849	ug/L	0.399	0	17	227231	0
> Tb	159		ug/L			525338	485095	0
Tl	205	0.042	ug/L	0.001	3	41	1587	2
Pb	208	3.462	ug/L	0.016	0	298	172445	0
Bi	209		ug/L			449045	410050	0
Th	232	0.965	ug/L	0.009	0	195	62238	0
[U	238	0.246	ug/L	0.004	1	30	17374	1

ST98 : 01249

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST77 E SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Friday, May 06, 2011 14:47:49

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	470407	0
[Be	9	0.186	ug/L	0.034	18	3	100	18
C	13		mg/L			4400	6377	1
Cl	37		mg/L			2975540	2693226	0
> Sc	45		ug/L			341467	340267	1
V-1	51	34.593	ug/L	0.325	0	3084	566225	1
V	51	34.076	ug/L	0.288	0	1073	568304	1
Cr	52	13.032	ug/L	0.300	2	9261	195829	1
Cr	53	12.903	ug/L	0.241	1	403	22793	0
Mn	55	119.685	ug/L	1.413	1	325	2974765	0
Co	59	4.796	ug/L	0.057	1	45	92160	0
> Ge	72		ug/L			509437	430295	0
Ni	60	14.353	ug/L	0.122	0	52	50418	1
Ni	62	19.726	ug/L	0.512	2	74	10728	2
Cu	63	18.174	ug/L	0.160	0	202	147772	0
Cu	65	18.287	ug/L	0.181	0	104	72436	1
Zn	66	37.975	ug/L	0.128	0	1041	99943	0
Zn	67	37.831	ug/L	0.140	0	189	17225	0
Zn	68	37.272	ug/L	0.386	1	10219	78448	0
As-1	75	3.186	ug/L	0.009	0	-97	7291	0
As	75	3.241	ug/L	0.037	1	11864	17606	0
Se	82	0.053	ug/L	0.022	41	9	20	24
Se	78	0.538	ug/L	0.136	25	12167	10609	1
Mo	98	0.181	ug/L	0.002	1	548	1828	0
Y	89		ug/L			375211	521510	0
Kr	83		ug/L			87	109	5
> In	115		ug/L			546264	481055	1
Ag	107	0.068	ug/L	0.001	2	46	1090	1
Cd	111	0.375	ug/L	0.024	6	251	1664	4
Cd	114	0.096	ug/L	0.005	5	14	897	6
Sb	121	0.020	ug/L	0.000	2	50	307	1
Sb	123	0.020	ug/L	0.002	9	33	231	9
Ba	135	45.140	ug/L	0.569	1	13	140827	0
[Ba	137	45.753	ug/L	0.428	0	17	241132	0
> Tb	159		ug/L			525338	485523	0
Tl	205	0.047	ug/L	0.000	0	41	1762	0
Pb	208	4.897	ug/L	0.012	0	298	244031	0
Bi	209		ug/L			449045	412018	0
Th	232	0.992	ug/L	0.009	0	195	64008	0
[U	238	0.289	ug/L	0.004	1	30	20432	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV5

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 14:54:21

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	460092	1
[Be	9	49.941	ug/L	0.669	1	3	25398	0
C	13		mg/L			4400	3990	2
Cl	37		mg/L			2975540	2790801	0
> Sc	45		ug/L			341467	294000	0
| V-1	51	51.219	ug/L	0.516	1	3084	723118	1
| V	51	51.206	ug/L	0.503	0	1073	737416	0
| Cr	52	51.645	ug/L	0.336	0	9261	647039	0
| Cr	53	51.578	ug/L	1.056	2	403	77687	1
| Mn	55	50.978	ug/L	0.252	0	325	1095060	1
[Co	59	51.563	ug/L	0.472	0	45	855716	0
> Ge	72		ug/L			509437	428867	0
| Ni	60	53.389	ug/L	0.333	0	52	186791	0
| Ni	62	52.458	ug/L	0.314	0	74	28334	1
| Cu	63	52.938	ug/L	0.333	0	202	428689	0
| Cu	65	52.323	ug/L	0.237	0	104	206396	0
| Zn	66	52.930	ug/L	0.445	0	1041	138491	0
| Zn	67	52.094	ug/L	0.577	1	189	23581	1
| Zn	68	52.574	ug/L	0.058	0	10219	106756	0
| As-1	75	50.722	ug/L	0.141	0	-97	116926	0
| As	75	50.500	ug/L	0.088	0	11864	127796	0
| Se	82	52.533	ug/L	0.404	0	9	12212	0
| Se	78	51.664	ug/L	0.234	0	12167	42076	0
[Mo	98	53.893	ug/L	0.314	0	548	405643	1
| Y	89		ug/L			375211	333840	0
| Kr	83		ug/L			87	89	4
> In	115		ug/L			546264	474807	0
| Ag	107	51.251	ug/L	0.308	0	46	786454	0
| Cd	111	51.287	ug/L	0.208	0	251	195052	1
| Cd	114	50.975	ug/L	0.298	0	14	463582	1
| Sb	121	49.854	ug/L	0.141	0	50	656684	0
| Sb	123	49.468	ug/L	0.285	0	33	492123	1
| Ba	135	49.125	ug/L	0.108	0	13	151283	0
[Ba	137	49.351	ug/L	0.432	0	17	256741	1
> Tb	159		ug/L			525338	471243	1
| Tl	205	47.770	ug/L	0.787	1	41	1702090	2
| Pb	208	48.821	ug/L	0.488	0	298	2358895	0
| Bi	209		ug/L			449045	398278	0
| Th	232	51.416	ug/L	0.892	1	195	3212023	1
[U	238	51.708	ug/L	0.753	1	30	3547410	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB5

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 15:01:34

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	491071	2
[Be	9	-0.000	ug/L	0.003	3871	3	3	43
C	13		mg/L			4400	4202	0
Cl	37		mg/L			2975540	2844009	0
> Sc	45		ug/L			341467	313863	1
V-1	51	0.010	ug/L	0.004	37	3084	2986	2
V	51	-0.006	ug/L	0.000	6	1073	890	1
Cr	52	0.037	ug/L	0.016	42	9261	9005	2
Cr	53	-0.014	ug/L	0.007	51	403	347	2
Mn	55	0.003	ug/L	0.001	27	325	370	6
Co	59	0.002	ug/L	0.001	41	45	75	17
> Ge	72		ug/L			509437	448829	0
Ni	60	0.003	ug/L	0.002	74	52	57	14
Ni	62	0.024	ug/L	0.012	49	74	78	8
Cu	63	0.003	ug/L	0.002	56	202	207	8
Cu	65	0.003	ug/L	0.004	132	104	102	14
Zn	66	-0.264	ug/L	0.008	2	1041	199	10
Zn	67	-0.208	ug/L	0.011	5	189	68	7
Zn	68	-0.013	ug/L	0.011	84	10219	8978	0
As-1	75	-0.017	ug/L	0.016	98	-97	-126	31
As	75	0.202	ug/L	0.017	8	11864	10944	0
Se	82	0.002	ug/L	0.017	1015	9	8	45
Se	78	0.833	ug/L	0.024	2	12167	11256	0
Mo	98	-0.040	ug/L	0.005	13	548	170	24
Y	89		ug/L			375211	353873	0
Kr	83		ug/L			87	79	6
> In	115		ug/L			546264	505907	0
Ag	107	0.010	ug/L	0.001	9	46	214	7
Cd	111	0.013	ug/L	0.007	57	251	283	10
Cd	114	0.002	ug/L	0.001	44	14	34	28
Sb	121	0.051	ug/L	0.008	16	50	759	15
Sb	123	0.054	ug/L	0.008	14	33	601	13
Ba	135	0.001	ug/L	0.001	97	13	16	22
Ba	137	0.003	ug/L	0.001	28	17	30	13
> Tb	159		ug/L			525338	497492	0
Tl	205	0.003	ug/L	0.001	22	41	162	17
Pb	208	0.003	ug/L	0.001	47	298	411	15
Bi	209		ug/L			449045	425206	0
Th	232	0.042	ug/L	0.002	5	195	2938	5
U	238	0.004	ug/L	0.001	29	30	338	27

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST89 MB REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 15:18:14

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	492237	0
[Be	9	↵ -0.001	ug/L	0.005	537	3	2	89
C	13		mg/L			4400	6418	1
Cl	37		mg/L			2975540	2878178	0
> Sc	45		ug/L			341467	313942	0
V-1	51	0.022	ug/L	0.002	10	3084	3173	0
V	51	-0.004	ug/L	0.001	32	1073	923	2
Cr	52	↵ 0.082	ug/L	0.010	12	9261	9603	0
Cr	53	-0.003	ug/L	0.008	239	403	365	3
Mn	55	↵ 0.113	ug/L	0.001	1	325	2896	1
Co	59	0.001	ug/L	0.000	39	45	55	9
> Ge	72		ug/L			509437	456505	1
Ni	60	0.011	ug/L	0.001	13	52	87	6
Ni	62	0.035	ug/L	0.023	65	74	86	15
Cu	63	0.036	ug/L	0.001	2	202	494	2
Cu	65	0.040	ug/L	0.004	9	104	260	4
Zn	66	0.215	ug/L	0.009	4	1041	1527	2
Zn	67	0.180	ug/L	0.046	25	189	255	8
Zn	68	0.401	ug/L	0.109	27	10219	9953	1
As-1	75	↵ 0.713	ug/L	0.014	1	-97	1663	1
As	75	0.877	ug/L	0.074	8	11864	12808	0
Se	82	-0.002	ug/L	0.032	1917	9	8	95
Se	78	0.692	ug/L	0.232	33	12167	11355	0
Mo	98	-0.050	ug/L	0.001	1	548	92	6
Y	89		ug/L			375211	355276	0
Kr	83		ug/L			87	89	8
> In	115		ug/L			546264	507686	0
Ag	107	↵ 0.002	ug/L	0.001	30	46	76	13
Cd	111	↵ 0.008	ug/L	0.004	48	251	265	5
Cd	114	↵ 0.001	ug/L	0.000	81	14	18	23
Sb	121	↵ 0.004	ug/L	0.001	12	50	107	6
Sb	123	↵ 0.004	ug/L	0.001	24	33	69	13
Ba	135	↵ 0.010	ug/L	0.001	7	13	45	5
Ba	137	↵ 0.009	ug/L	0.001	7	17	67	5
> Tb	159		ug/L			525338	490730	1
Tl	205	0.000	ug/L	0.000	96	41	50	21
Pb	208	0.003	ug/L	0.001	18	298	430	5
Bi	209		ug/L			449045	426027	0
Th	232	0.004	ug/L	0.001	19	195	423	10
U	238	0.000	ug/L	0.000	151	30	32	18

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST89 MBSPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 15:24:50

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldat\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	492993	1
[Be	9	23.993	ug/L	0.136	0	3	13078	0
C	13		mg/L			4400	7729	2
Cl	37		mg/L			2975540	2860652	0
> Sc	45		ug/L			341467	312458	1
V-1	51	25.754	ug/L	0.404	1	3084	387808	2
V	51	25.798	ug/L	0.354	1	1073	395318	1
Cr	52	25.809	ug/L	0.458	1	9261	347826	0
Cr	53	25.941	ug/L	0.486	1	403	41705	0
Mn	55	26.073	ug/L	0.316	1	325	595301	0
Co	59	26.698	ug/L	0.198	0	45	470917	1
> Ge	72		ug/L			509437	446344	0
Ni	60	28.192	ug/L	0.361	1	52	102672	0
Ni	62	27.667	ug/L	0.347	1	74	15582	1
Cu	63	28.661	ug/L	0.191	0	202	241643	0
Cu	65	28.250	ug/L	0.404	1	104	116014	0
Zn	66	82.125	ug/L	1.245	1	1041	223130	1
Zn	67	74.433	ug/L	0.917	1	189	34992	0
Zn	68	80.135	ug/L	0.971	1	10219	164652	0
As-1	75	25.437	ug/L	0.216	0	-97	60984	0
As	75	25.497	ug/L	0.236	0	11864	72297	0
Se	82	80.352	ug/L	0.914	1	9	19435	0
Se	78	78.283	ug/L	0.825	1	12167	60858	0
Mo	98	27.272	ug/L	0.382	1	548	213859	0
Y	89		ug/L			375211	354484	0
Kr	83		ug/L			87	87	3
> In	115		ug/L			546264	507852	1
Ag	107	26.192	ug/L	0.249	0	46	429880	0
Cd	111	25.370	ug/L	0.225	0	251	103307	0
Cd	114	25.297	ug/L	0.512	2	14	246019	0
Sb	121	24.353	ug/L	0.328	1	50	343090	0
Sb	123	24.299	ug/L	0.392	1	33	258524	0
Ba	135	24.972	ug/L	0.652	2	13	82243	1
[Ba	137	25.279	ug/L	0.465	1	17	140645	0
> Tb	159		ug/L			525338	498712	0
Tl	205	24.192	ug/L	0.200	0	41	912243	0
Pb	208	25.188	ug/L	0.145	0	298	1288150	0
Bi	209		ug/L			449045	427007	0
Th	232	24.247	ug/L	0.154	0	195	1603332	0
[U	238	24.334	ug/L	0.129	0	30	1766889	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST77 F SWN

Sample Dil Factor: 100

Comments:

Sample Date/Time: Friday, May 06, 2011 15:31:21

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	491219	2
[Be	9	0.065	ug/L	0.020	30	3	38	26
C	13		mg/L			4400	6052	0
Cl	37		mg/L			2975540	2824186	0
> Sc	45		ug/L			341467	323268	0
V-1	51	8.613	ug/L	0.116	1	3084	136129	0
V	51	8.497	ug/L	0.095	1	1073	135398	0
Cr	52	4.068	ug/L	0.058	1	9261	64113	0
Cr	53	4.020	ug/L	0.028	0	403	7011	1
Mn	55	51.162	ug/L	0.547	1	325	1208344	0
Co	59	1.368	ug/L	0.021	1	45	25009	1
> Ge	72		ug/L			509437	448565	0
Ni	60	3.313	ug/L	0.024	0	52	12167	0
Ni	62	4.331	ug/L	0.186	4	74	2506	3
Cu	63	5.774	ug/L	0.045	0	202	49061	0
Cu	65	5.773	ug/L	0.033	0	104	23901	0
Zn	66	12.810	ug/L	0.050	0	1041	35751	0
Zn	67	12.060	ug/L	0.353	2	189	5838	3
Zn	68	12.538	ug/L	0.275	2	10219	33482	1
As-1	75	1.570	ug/L	0.008	0	-97	3702	0
As	75	1.675	ug/L	0.021	1	11864	14533	0
Se	82	0.048	ug/L	0.035	71	9	20	41
Se	78	0.591	ug/L	0.098	16	12167	11094	0
Mo	98	0.001	ug/L	0.003	506	548	488	5
Y	89		ug/L			375211	404300	0
Kr	83		ug/L			87	98	5
> In	115		ug/L			546264	499813	0
Ag	107	0.044	ug/L	0.001	2	46	755	2
Cd	111	0.244	ug/L	0.017	6	251	1204	5
Cd	114	0.116	ug/L	0.005	4	14	1119	4
Sb	121	0.012	ug/L	0.001	11	50	216	9
Sb	123	0.013	ug/L	0.002	18	33	162	15
Ba	135	11.785	ug/L	0.170	1	13	38211	1
Ba	137	12.005	ug/L	0.102	0	17	65756	1
> Tb	159		ug/L			525338	492798	0
Tl	205	0.016	ug/L	0.002	10	41	651	10
Pb	208	2.123	ug/L	0.016	0	298	107525	0
Bi	209		ug/L			449045	423709	0
Th	232	0.295	ug/L	0.007	2	195	19433	1
U	238	0.098	ug/L	0.002	1	30	7033	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST77 F SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Friday, May 06, 2011 15:37:53

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	486463	0
[Be	9	0.344	ug/L	0.025	7	3	188	6
C	13		mg/L			4400	10431	0
Cl	37		mg/L			2975540	2690755	0
> Sc	45		ug/L			341467	376390	0
V-1	51	36.497	ug/L	0.314	0	3084	660631	1
V	51	36.011	ug/L	0.224	0	1073	664271	0
Cr	52	16.936	ug/L	0.167	0	9261	278508	1
Cr	53	16.768	ug/L	0.273	1	403	32635	0
Mn	55	222.895	ug/L	0.819	0	325	6128378	0
[Co	59	5.682	ug/L	0.112	1	45	120750	1
> Ge	72		ug/L			509437	444652	0
Ni	60	15.850	ug/L	0.223	1	52	57526	1
Ni	62	20.961	ug/L	0.036	0	74	11776	0
Cu	63	27.658	ug/L	0.139	0	202	232308	0
Cu	65	27.810	ug/L	0.372	1	104	113779	0
Zn	66	61.113	ug/L	0.383	0	1041	165654	0
Zn	67	59.524	ug/L	0.991	1	189	27913	2
Zn	68	60.161	ug/L	0.273	0	10219	125370	0
As-1	75	7.731	ug/L	0.011	0	-97	18404	0
As	75	7.637	ug/L	0.038	0	11864	28826	0
Se	82	0.155	ug/L	0.009	5	9	45	4
Se	78	0.343	ug/L	0.109	31	12167	10838	0
[Mo	98	0.229	ug/L	0.010	4	548	2266	3
Y	89		ug/L			375211	609528	0
Kr	83		ug/L			87	132	1
> In	115		ug/L			546264	499166	0
Ag	107	0.200	ug/L	0.001	0	46	3271	1
Cd	111	1.202	ug/L	0.019	1	251	5029	1
Cd	114	0.554	ug/L	0.012	2	14	5313	1
Sb	121	0.024	ug/L	0.002	9	50	382	8
Sb	123	0.022	ug/L	0.003	12	33	264	10
Ba	135	58.099	ug/L	0.724	1	13	188092	0
[Ba	137	59.203	ug/L	0.227	0	17	323778	0
> Tb	159		ug/L			525338	497171	1
Tl	205	0.070	ug/L	0.002	3	41	2689	4
Pb	208	10.270	ug/L	0.094	0	298	523723	0
Bi	209		ug/L			449045	419604	0
Th	232	1.339	ug/L	0.018	1	195	88420	0
[U	238	0.465	ug/L	0.005	1	30	33706	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST89 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 15:44:25

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	492051	0
[Be	9	0.002	ug/L	0.007	270	3	2	173
C	13		mg/L			4400	7260	1
Cl	37		mg/L			2975540	2609649	1
> Sc	45		ug/L			341467	324373	0
V-1	51	0.403	ug/L	0.008	2	3084	9185	2
V	51	0.421	ug/L	0.005	1	1073	7696	1
Cr	52	0.108	ug/L	0.003	2	9261	10272	1
Cr	53	0.182	ug/L	0.011	6	403	684	2
Mn	55	28.624	ug/L	0.314	1	325	678498	0
Co	59	0.037	ug/L	0.002	6	45	723	5
> Ge	72		ug/L			509437	432156	1
Ni	60	0.403	ug/L	0.020	4	52	1462	3
Ni	62	0.204	ug/L	0.010	4	74	173	3
Cu	63	0.890	ug/L	0.016	1	202	7428	0
Cu	65	0.847	ug/L	0.024	2	104	3451	1
Zn	66	3.295	ug/L	0.082	2	1041	9515	1
Zn	67	2.982	ug/L	0.216	7	189	1510	5
Zn	68	3.562	ug/L	0.130	3	10219	15367	0
As-1	75	0.307	ug/L	0.029	9	-97	631	10
As	75	0.320	ug/L	0.096	29	11864	10814	1
Se	82	0.104	ug/L	0.040	38	9	32	28
Se	78	0.198	ug/L	0.304	153	12167	10442	0
Mo	98	0.124	ug/L	0.005	3	548	1404	2
Y	89		ug/L			375211	342215	0
Kr	83		ug/L			87	83	7
> In	115		ug/L			546264	488616	0
Ag	107	0.002	ug/L	0.000	26	46	70	11
Cd	111	0.003	ug/L	0.005	198	251	235	8
Cd	114	0.003	ug/L	0.001	28	14	42	20
Sb	121	0.040	ug/L	0.001	2	50	592	2
Sb	123	0.042	ug/L	0.002	5	33	459	4
Ba	135	1.885	ug/L	0.035	1	13	5984	1
Ba	137	1.902	ug/L	0.015	0	17	10199	1
> Tb	159		ug/L			525338	491304	0
Tl	205	0.004	ug/L	0.001	16	41	170	12
Pb	208	0.016	ug/L	0.000	2	298	1078	1
Bi	209		ug/L			449045	407969	0
Th	232	0.012	ug/L	0.001	5	195	971	4
U	238	0.004	ug/L	0.000	12	30	286	11

ST98 : 01257

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST65 A REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Friday, May 06, 2011 15:50:58

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	472609	0
[Be	9	0.128	ug/L	0.024	18	3	70	17
C	13		mg/L			4400	7566	0
Cl	37		mg/L			2975540	2668452	0
> Sc	45		ug/L			341467	342076	0
V-1	51	76.062	ug/L	0.684	0	3084	1247967	1
V	51	74.648	ug/L	0.627	0	1073	1250338	1
Cr	52	11.761	ug/L	0.105	0	9261	178613	0
Cr	53	11.770	ug/L	0.110	0	403	20941	0
Mn	55	79.075	ug/L	0.706	0	325	1976103	0
Co	59	0.232	ug/L	0.004	1	45	4523	1
> Ge	72		ug/L			509437	413533	0
Ni	60	0.707	ug/L	0.011	1	52	2426	1
Ni	62	2.440	ug/L	0.083	3	74	1328	3
Cu	63	8.953	ug/L	0.061	0	202	70043	0
Cu	65	7.991	ug/L	0.015	0	104	30468	0
Zn	66	2.836	ug/L	0.063	2	1041	7955	2
Zn	67	9.867	ug/L	0.249	2	189	4431	2
Zn	68	3.128	ug/L	0.093	2	10219	13926	0
As-1	75	4.372	ug/L	0.038	0	-97	9645	1
As	75	4.357	ug/L	0.036	0	11864	19431	0
Se	82	0.862	ug/L	0.012	1	9	200	1
Se	78	1.061	ug/L	0.066	6	12167	10507	0
Mo	98	1.035	ug/L	0.011	1	548	7951	0
Y	89		ug/L			375211	454547	1
Kr	83		ug/L			87	96	1
> In	115		ug/L			546264	460785	0
Ag	107	0.056	ug/L	0.003	4	46	871	4
Cd	111	0.225	ug/L	0.010	4	251	1042	3
Cd	114	0.030	ug/L	0.002	6	14	272	5
Sb	121	0.077	ug/L	0.003	3	50	1026	3
Sb	123	0.075	ug/L	0.003	3	33	755	3
Ba	135	3.785	ug/L	0.016	0	13	11321	0
Ba	137	3.817	ug/L	0.050	1	17	19284	1
> Tb	159		ug/L			525338	475539	0
Ti	205	0.002	ug/L	0.000	10	41	100	6
Pb	208	0.483	ug/L	0.005	1	298	23811	0
Bi	209		ug/L			449045	382436	0
Th	232	0.338	ug/L	0.001	0	195	21471	0
U	238	0.232	ug/L	0.003	1	30	16088	1

ST98
M 54-11

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST65 REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Friday, May 06, 2011 15:57:31

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	485983	2
[Be	9	0.079	ug/L	0.016	20	3	45	20
C	13		mg/L			4400	7754	2
Cl	37		mg/L			2975540	2630429	0
> Sc	45		ug/L			341467	337818	0
V-1	51	57.624	ug/L	0.685	1	3084	934394	0
V	51	56.554	ug/L	0.683	1	1073	935702	0
Cr	52	9.394	ug/L	0.099	1	9261	142733	0
Cr	53	9.371	ug/L	0.118	1	403	16546	1
Mn	55	77.433	ug/L	1.075	1	325	1911012	1
Co	59	0.202	ug/L	0.002	0	45	3897	0
> Ge	72		ug/L			509437	416849	0
Ni	60	1.052	ug/L	0.030	2	52	3618	3
Ni	62	2.188	ug/L	0.061	2	74	1206	3
Cu	63	3.477	ug/L	0.057	1	202	27526	2
Cu	65	2.655	ug/L	0.052	1	104	10260	2
Zn	66	0.791	ug/L	0.038	4	1041	2851	4
Zn	67	6.118	ug/L	0.098	1	189	2828	1
Zn	68	1.120	ug/L	0.127	11	10219	10393	1
As-1	75	3.839	ug/L	0.035	0	-97	8527	1
As	75	3.779	ug/L	0.084	2	11864	18275	0
Se	82	0.724	ug/L	0.021	2	9	171	3
Se	78	0.705	ug/L	0.267	37	12167	10376	0
Mo	98	0.802	ug/L	0.014	1	548	6312	2
Y	89		ug/L			375211	427867	0
Kr	83		ug/L			87	89	0
> In	115		ug/L			546264	473443	1
Ag	107	0.039	ug/L	0.004	9	46	636	10
Cd	111	0.162	ug/L	0.024	14	251	828	9
Cd	114	0.005	ug/L	0.002	27	14	61	21
Sb	121	0.042	ug/L	0.002	5	50	595	3
Sb	123	0.039	ug/L	0.002	5	33	415	3
Ba	135	2.413	ug/L	0.028	1	13	7419	0
Ba	137	2.440	ug/L	0.049	2	17	12670	0
> Tb	159		ug/L			525338	482647	1
Tl	205	0.001	ug/L	0.000	7	41	65	2
Pb	208	0.159	ug/L	0.001	0	298	8142	0
Bi	209		ug/L			449045	383961	0
Th	232	0.186	ug/L	0.001	0	195	12112	1
U	238	0.149	ug/L	0.003	2	30	10475	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST98 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 16:04:04

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	507973	2
[Be	9	-0.002	ug/L	0.002	117	3	2	50
C	13		mg/L			4400	7080	3
Cl	37		mg/L			2975540	2492027	0
> Sc	45		ug/L			341467	322975	1
V-1	51	0.256	ug/L	0.008	3	3084	6879	2
V	51	0.265	ug/L	0.005	1	1073	5198	2
Cr	52	0.442	ug/L	0.031	6	9261	14762	1
Cr	53	0.455	ug/L	0.018	3	403	1130	1
Mn	55	2.023	ug/L	0.023	1	325	48041	2
Co	59	0.067	ug/L	0.002	2	45	1263	2
> Ge	72		ug/L			509437	420117	1
Ni	60	0.974	ug/L	0.031	3	52	3378	2
Ni	62	0.753	ug/L	0.078	10	74	458	8
Cu	63	0.386	ug/L	0.007	1	202	3226	2
Cu	65	0.350	ug/L	0.009	2	104	1437	1
Zn	66	1.784	ug/L	0.045	2	1041	5402	3
Zn	67	1.696	ug/L	0.034	2	189	903	0
Zn	68	1.981	ug/L	0.062	3	10219	12049	0
As-1	75	0.187	ug/L	0.018	9	-97	341	12
As	75	0.163	ug/L	0.050	30	11864	10155	0
Se	82	0.091	ug/L	0.031	33	9	28	24
Se	78	0.045	ug/L	0.197	432	12167	10060	0
Mo	98	0.004	ug/L	0.002	62	548	480	2
Y	89		ug/L			375211	337130	1
Kr	83		ug/L			87	81	6
> In	115		ug/L			546264	482198	2
Ag	107	0.001	ug/L	0.001	72	46	63	24
Cd	111	0.008	ug/L	0.001	7	251	253	2
Cd	114	0.009	ug/L	0.001	12	14	96	11
Sb	121	0.053	ug/L	0.000	0	50	757	2
Sb	123	0.051	ug/L	0.001	2	33	544	2
Ba	135	4.501	ug/L	0.063	1	13	14086	0
Ba	137	4.546	ug/L	0.060	1	17	24029	0
> Tb	159		ug/L			525338	498278	2
Tl	205	0.002	ug/L	0.000	19	41	130	13
Pb	208	0.008	ug/L	0.000	4	298	709	2
Bi	209		ug/L			449045	404534	2
Th	232	0.007	ug/L	0.001	9	195	663	5
U	238	0.005	ug/L	0.000	3	30	373	4

ST98 : 01260

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST98 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 16:10:38

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldat\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	514582	0
[Be	9	0.003	ug/L	0.002	85	3	5	25
C	13		mg/L			4400	6744	0
Cl	37		mg/L			2975540	2434013	0
> Sc	45		ug/L			341467	327998	1
V-1	51	1.134	ug/L	0.015	1	3084	20760	0
V	51	1.123	ug/L	0.015	1	1073	19056	0
Cr	52	0.447	ug/L	0.008	1	9261	15064	1
Cr	53	0.460	ug/L	0.007	1	403	1157	1
Mn	55	0.844	ug/L	0.005	0	325	20532	2
Co	59	0.055	ug/L	0.002	3	45	1062	4
> Ge	72		ug/L			509437	417375	0
Ni	60	2.341	ug/L	0.054	2	52	8011	2
Ni	62	2.134	ug/L	0.033	1	74	1180	1
Cu	63	0.337	ug/L	0.014	4	202	2819	4
Cu	65	0.354	ug/L	0.002	0	104	1442	0
Zn	66	0.812	ug/L	0.037	4	1041	2907	2
Zn	67	0.877	ug/L	0.035	3	189	538	2
Zn	68	1.038	ug/L	0.116	11	10219	10258	2
As-1	75	0.356	ug/L	0.024	6	-97	718	7
As	75	0.271	ug/L	0.039	14	11864	10336	1
Se	82	0.091	ug/L	0.022	24	9	28	17
Se	78	-0.187	ug/L	0.086	46	12167	9856	0
Mo	98	-0.029	ug/L	0.002	7	548	234	6
Y	89		ug/L			375211	340395	0
Kr	83		ug/L			87	78	4
> In	115		ug/L			546264	486399	0
Ag	107	-0.000	ug/L	0.000	378	46	40	11
Cd	111	0.006	ug/L	0.006	103	251	248	10
Cd	114	0.008	ug/L	0.001	9	14	82	8
Sb	121	0.030	ug/L	0.002	8	50	443	6
Sb	123	0.028	ug/L	0.002	8	33	316	8
Ba	135	4.170	ug/L	0.042	1	13	13166	1
[Ba	137	4.189	ug/L	0.033	0	17	22337	0
> Tb	159		ug/L			525338	504667	0
Tl	205	0.003	ug/L	0.000	14	41	160	11
Pb	208	0.008	ug/L	0.000	5	298	680	2
Bi	209		ug/L			449045	403531	0
Th	232	0.006	ug/L	0.000	0	195	619	0
[U	238	0.005	ug/L	0.000	5	30	414	4

ST98 : 01261

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST98 C REN

Sample Dil Factor: *5.0* *5.0*

Comments:

Sample Date/Time: Friday, May 06, 2011 16:17:13

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	513980	2
[Be	9	0.003	ug/L	0.002	92	3	5	25
C	13		mg/L			4400	6863	2
Cl	37		mg/L			2975540	2555553	1
> Sc	45		ug/L			341467	337791	1
V-1	51	0.534	ug/L	0.019	3	3084	11676	2
V	51	0.715	ug/L	0.004	0	1073	12876	1
Cr	52	1.173	ug/L	0.025	2	9261	25838	1
Cr	53	1.686	ug/L	0.037	2	403	3303	2
Mn	55	31.393	ug/L	0.544	1	325	774882	2
[Co	59	0.085	ug/L	0.002	2	45	1658	3
> Ge	72		ug/L			509437	412068	2
Ni	60	5.593	ug/L	0.053	0	52	18837	1
Ni	62	5.214	ug/L	0.244	4	74	2758	3
Cu	63	0.639	ug/L	0.021	3	202	5136	4
Cu	65	0.578	ug/L	0.005	0	104	2273	2
Zn	66	59.382	ug/L	0.522	0	1041	149174	1
Zn	67	51.523	ug/L	0.717	1	189	22406	1
Zn	68	57.954	ug/L	0.736	1	10219	112215	2
As-1	75	0.206	ug/L	0.019	9	-97	378	9
As	75	0.112	ug/L	0.073	65	11864	9845	0
Se	82	0.069	ug/L	0.043	61	9	23	38
Se	78	-0.238	ug/L	0.223	93	12167	9698	1
[Mo	98	0.005	ug/L	0.005	107	548	477	5
Y	89		ug/L			375211	338535	1
Kr	83		ug/L			87	81	13
> In	115		ug/L			546264	480447	1
Ag	107	0.007	ug/L	0.001	13	46	150	8
Cd	111	0.031	ug/L	0.003	10	251	338	4
Cd	114	0.028	ug/L	0.003	10	14	266	11
Sb	121	0.027	ug/L	0.003	9	50	407	9
Sb	123	0.028	ug/L	0.001	1	33	314	2
Ba	135	4.220	ug/L	0.093	2	13	13160	3
[Ba	137	4.265	ug/L	0.057	1	17	22464	1
> Tb	159		ug/L			525338	499880	0
Tl	205	0.002	ug/L	0.001	22	41	126	14
Pb	208	0.030	ug/L	0.000	0	298	1818	0
Bi	209		ug/L			449045	403756	1
Th	232	0.004	ug/L	0.001	27	195	436	16
[U	238	0.007	ug/L	0.000	4	30	505	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV6

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 16:23:47

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	482382	1
[Be	9	47.438	ug/L	0.747	1	3	25300	2
C	13		mg/L			4400	3310	0
Cl	37		mg/L			2975540	2512535	0
> Sc	45		ug/L			341467	284164	0
V-1	51	50.885	ug/L	0.794	1	3084	694382	1
V	51	51.127	ug/L	0.469	0	1073	711655	1
Cr	52	51.302	ug/L	0.210	0	9261	621308	1
Cr	53	52.016	ug/L	0.871	1	403	75731	1
Mn	55	50.527	ug/L	0.337	0	325	1049080	1
[Co	59	51.125	ug/L	0.179	0	45	820080	0
> Ge	72		ug/L			509437	405978	1
Ni	60	54.214	ug/L	0.684	1	52	179545	1
Ni	62	52.846	ug/L	0.798	1	74	27022	2
Cu	63	53.282	ug/L	0.279	0	202	408438	0
Cu	65	52.702	ug/L	1.051	1	104	196775	1
Zn	66	52.710	ug/L	0.457	0	1041	130556	0
Zn	67	51.654	ug/L	0.360	0	189	22133	0
Zn	68	51.288	ug/L	0.310	0	10219	98786	1
As-1	75	50.478	ug/L	0.244	0	-97	110150	0
As	75	50.173	ug/L	0.145	0	11864	120251	0
Se	82	53.285	ug/L	0.721	1	9	11724	0
Se	78	52.105	ug/L	0.440	0	12167	40085	0
[Mo	98	54.901	ug/L	0.148	0	548	391157	1
Y	89		ug/L			375211	324041	0
Kr	83		ug/L			87	95	4
> In	115		ug/L			546264	465610	1
Ag	107	50.560	ug/L	0.286	0	46	760828	1
Cd	111	50.769	ug/L	0.487	0	251	189330	0
Cd	114	50.691	ug/L	0.731	1	14	452009	0
Sb	121	49.255	ug/L	0.477	0	50	636180	0
Sb	123	49.377	ug/L	0.478	0	33	481651	0
Ba	135	49.425	ug/L	0.424	0	13	149249	0
[Ba	137	49.562	ug/L	0.572	1	17	252815	0
> Tb	159		ug/L			525338	476720	0
Tl	205	46.500	ug/L	0.473	1	41	1675981	0
Pb	208	47.573	ug/L	0.139	0	298	2325426	0
Bi	209		ug/L			449045	391813	0
Th	232	49.282	ug/L	0.080	0	195	3114827	0
[U	238	50.525	ug/L	0.101	0	30	3506848	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB6

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 16:31:00

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	503090	0
[Be	9	-0.002	ug/L	0.000	0	3	2	
C	13		mg/L			4400	4017	2
Cl	37		mg/L			2975540	2556754	0
> Sc	45		ug/L			341467	294636	1
V-1	51	0.005	ug/L	0.012	253	3084	2725	4
V	51	-0.011	ug/L	0.002	17	1073	761	2
Cr	52	0.026	ug/L	0.019	72	9261	8307	2
Cr	53	-0.025	ug/L	0.014	54	403	310	7
Mn	55	0.002	ug/L	0.001	46	325	324	5
Co	59	0.002	ug/L	0.000	31	45	64	11
> Ge	72		ug/L			509437	421532	0
Ni	60	0.002	ug/L	0.003	124	52	51	19
Ni	62	0.012	ug/L	0.015	121	74	67	11
Cu	63	0.002	ug/L	0.001	55	202	185	5
Cu	65	0.004	ug/L	0.004	103	104	100	14
Zn	66	-0.264	ug/L	0.002	0	1041	187	2
Zn	67	-0.225	ug/L	0.035	15	189	57	27
Zn	68	-0.239	ug/L	0.087	36	10219	8016	2
As-1	75	0.011	ug/L	0.005	44	-97	-54	21
As	75	0.050	ug/L	0.042	84	11864	9930	0
Se	82	0.028	ug/L	0.014	49	9	14	21
Se	78	0.180	ug/L	0.159	88	12167	10176	0
Mo	98	-0.045	ug/L	0.002	5	548	119	14
Y	89		ug/L			375211	337952	0
Kr	83		ug/L			87	74	3
> In	115		ug/L			546264	491458	1
Ag	107	0.007	ug/L	0.001	8	46	147	5
Cd	111	0.002	ug/L	0.004	191	251	234	6
Cd	114	0.002	ug/L	0.001	40	14	27	22
Sb	121	0.046	ug/L	0.005	11	50	678	11
Sb	123	0.046	ug/L	0.003	7	33	508	7
Ba	135	0.000	ug/L	0.001	2253	13	12	26
Ba	137	0.001	ug/L	0.001	57	17	23	18
> Tb	159		ug/L			525338	498826	0
Tl	205	0.003	ug/L	0.000	1	41	152	1
Pb	208	0.002	ug/L	0.000	15	298	365	2
Bi	209		ug/L			449045	414967	0
Th	232	0.030	ug/L	0.003	10	195	2189	8
U	238	0.003	ug/L	0.000	5	30	255	4

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST98 MB1 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 16:38:13

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldat\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	510051	1
[Be	9	-0.002	ug/L	0.000	2	3	2	
C	13		mg/L			4400	5856	4
Cl	37		mg/L			2975540	2551570	0
> Sc	45		ug/L			341467	300866	0
V-1	51	0.024	ug/L	0.008	34	3084	3061	3
V	51	-0.005	ug/L	0.001	26	1073	867	1
Cr	52	0.091	ug/L	0.014	14	9261	9309	1
Cr	53	-0.003	ug/L	0.010	300	403	350	5
Mn	55	0.072	ug/L	0.003	4	325	1859	3
Co	59	0.001	ug/L	0.001	58	45	60	20
> Ge	72		ug/L			509437	423477	0
Ni	60	0.014	ug/L	0.004	28	52	90	15
Ni	62	0.017	ug/L	0.017	99	74	70	12
Cu	63	0.055	ug/L	0.005	8	202	611	5
Cu	65	0.051	ug/L	0.003	6	104	285	4
Zn	66	0.058	ug/L	0.020	35	1041	1014	4
Zn	67	0.056	ug/L	0.050	89	189	182	12
Zn	68	0.089	ug/L	0.035	39	10219	8658	0
As-1	75	0.027	ug/L	0.007	25	-97	-19	77
As	75	0.072	ug/L	0.054	75	11864	10027	1
Se	82	0.079	ug/L	0.017	21	9	26	14
Se	78	0.290	ug/L	0.207	71	12167	10290	1
Mo	98	-0.040	ug/L	0.006	13	548	157	25
Y	89		ug/L			375211	343699	1
Kr	83		ug/L			87	83	5
> In	115		ug/L			546264	490137	1
Ag	107	0.002	ug/L	0.001	52	46	69	20
Cd	111	0.006	ug/L	0.003	48	251	247	4
Cd	114	0.001	ug/L	0.000	52	14	21	20
Sb	121	0.015	ug/L	0.002	14	50	252	11
Sb	123	0.017	ug/L	0.004	22	33	199	20
Ba	135	0.022	ug/L	0.002	8	13	82	5
Ba	137	0.022	ug/L	0.001	3	17	132	1
> Tb	159		ug/L			525338	504288	0
Tl	205	0.001	ug/L	0.000	11	41	95	6
Pb	208	0.007	ug/L	0.000	4	298	662	2
Bi	209		ug/L			449045	417300	0
Th	232	0.016	ug/L	0.003	15	195	1275	13
U	238	0.001	ug/L	0.000	17	30	112	13

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST98 MB1SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 16:44:48

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	512321	0
[Be	9	23.458	ug/L	0.178	0	3	13288	1
C	13		mg/L			4400	7084	2
Cl	37		mg/L			2975540	2556803	0
> Sc	45		ug/L			341467	300781	0
V-1	51	25.735	ug/L	0.553	2	3084	373008	1
V	51	25.755	ug/L	0.590	2	1073	379880	1
Cr	52	25.959	ug/L	0.237	0	9261	336777	0
Cr	53	26.008	ug/L	0.510	1	403	40253	1
Mn	55	25.892	ug/L	0.492	1	325	569087	1
Co	59	26.365	ug/L	0.442	1	45	447627	0
> Ge	72		ug/L			509437	423597	0
Ni	60	28.142	ug/L	0.276	0	52	97271	0
Ni	62	27.445	ug/L	0.420	1	74	14670	1
Cu	63	28.623	ug/L	0.074	0	202	229019	0
Cu	65	28.257	ug/L	0.054	0	104	110137	0
Zn	66	80.341	ug/L	0.911	1	1041	207184	0
Zn	67	72.005	ug/L	0.762	1	189	32132	1
Zn	68	77.422	ug/L	1.139	1	10219	151258	1
As-1	75	24.552	ug/L	0.084	0	-97	55860	0
As	75	24.287	ug/L	0.168	0	11864	65825	0
Se	82	79.092	ug/L	0.201	0	9	18156	0
Se	78	75.809	ug/L	0.180	0	12167	56252	0
Mo	98	-0.047	ug/L	0.002	4	548	107	14
Y	89		ug/L			375211	346010	0
Kr	83		ug/L			87	82	5
> In	115		ug/L			546264	491891	0
Ag	107	26.142	ug/L	0.220	0	46	415589	0
Cd	111	25.204	ug/L	0.372	1	251	99412	1
Cd	114	24.893	ug/L	0.244	0	14	234520	0
Sb	121	0.009	ug/L	0.001	15	50	162	11
Sb	123	0.009	ug/L	0.002	23	33	128	18
Ba	135	25.235	ug/L	0.278	1	13	80509	0
Ba	137	25.556	ug/L	0.219	0	17	137741	1
> Tb	159		ug/L			525338	507047	0
Tl	205	23.788	ug/L	0.244	1	41	911980	0
Pb	208	24.584	ug/L	0.281	1	298	1278262	0
Bi	209		ug/L			449045	421804	0
Th	232	23.473	ug/L	0.184	0	195	1578019	0
U	238	23.744	ug/L	0.332	1	30	1752845	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST98 DDUP REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 16:51:24

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	472892	0
[Be	9	0.021	ug/L	0.008	36	3	14	28
C	13		mg/L			4400	13014	0
Cl	37		mg/L			2975540	2464302	0
> Sc	45		ug/L			341467	347643	1
V-1	51	0.366	ug/L	0.013	3	3084	9234	1
V	51	0.355	ug/L	0.005	1	1073	7139	2
Cr	52	0.939	ug/L	0.034	3	9261	23171	1
Cr	53	0.867	ug/L	0.027	3	403	1948	3
Mn	55	7903.176	ug/L	177.088	2	325	200651960	1
[Co	59	3.591	ug/L	0.047	1	45	70512	0
> Ge	72		ug/L			509437	401878	0
Ni	60	14.974	ug/L	0.023	0	52	49123	0
Ni	62	13.369	ug/L	0.326	2	74	6809	2
Cu	63	5.908	ug/L	0.012	0	202	44974	0
Cu	65	5.948	ug/L	0.065	1	104	22059	0
Zn	66	1.732	ug/L	0.039	2	1041	5042	2
Zn	67	1.770	ug/L	0.086	4	189	894	3
Zn	68	2.465	ug/L	0.069	2	10219	12373	0
As-1	75	0.453	ug/L	0.006	1	-97	901	1
As	75	0.542	ug/L	0.090	16	11864	10543	1
Se	82	0.316	ug/L	0.022	6	9	76	6
Se	78	0.688	ug/L	0.342	49	12167	9994	1
[Mo	98	0.054	ug/L	0.003	5	548	815	2
Y	89		ug/L			375211	366164	0
Kr	83		ug/L			87	75	2
> In	115		ug/L			546264	469604	0
Ag	107	0.009	ug/L	0.001	6	46	182	4
Cd	111	0.105	ug/L	0.005	5	251	609	2
Cd	114	0.069	ug/L	0.004	5	14	631	4
Sb	121	0.121	ug/L	0.003	2	50	1619	1
Sb	123	0.119	ug/L	0.003	2	33	1203	2
Ba	135	16.684	ug/L	0.265	1	13	50822	1
[Ba	137	16.801	ug/L	0.058	0	17	86451	0
> Tb	159		ug/L			525338	490432	0
Tl	205	0.016	ug/L	0.001	7	41	618	6
Pb	208	0.012	ug/L	0.001	9	298	858	6
Bi	209		ug/L			449045	390390	1
Th	232	0.040	ug/L	0.009	21	195	2778	20
[U	238	0.088	ug/L	0.003	3	30	6302	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST98 D REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 16:57:56

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	481632	2
[Be	9	0.011	ug/L	0.014	126	3	9	78
C	13		mg/L			4400	12896	2
Cl	37		mg/L			2975540	2445769	0
> Sc	45		ug/L			341467	353595	3
V-1	51	0.371	ug/L	0.008	2	3084	9468	2
V	51	0.358	ug/L	0.010	2	1073	7295	3
Cr	52	0.943	ug/L	0.022	2	9261	23614	2
Cr	53	0.863	ug/L	0.032	3	403	1973	3
Mn	55	8047.256	ug/L	72.665	0	325	207801683	2
[Co	59	3.580	ug/L	0.031	0	45	71494	3
> Ge	72		ug/L			509437	399650	2
Ni	60	15.325	ug/L	0.157	1	52	50000	3
Ni	62	13.715	ug/L	0.455	3	74	6944	2
Cu	63	6.498	ug/L	0.080	1	202	49185	3
Cu	65	6.622	ug/L	0.086	1	104	24416	3
Zn	66	1.768	ug/L	0.044	2	1041	5101	3
Zn	67	1.937	ug/L	0.146	7	189	960	7
Zn	68	2.325	ug/L	0.066	2	10219	12060	1
As-1	75	0.452	ug/L	0.032	7	-97	893	6
As	75	0.542	ug/L	0.119	21	11864	10481	0
Se	82	0.285	ug/L	0.009	3	9	69	2
Se	78	0.670	ug/L	0.363	54	12167	9926	0
[Mo	98	0.063	ug/L	0.001	1	548	874	2
Y	89		ug/L			375211	374442	3
Kr	83		ug/L			87	77	4
> In	115		ug/L			546264	481153	3
Ag	107	0.006	ug/L	0.000	6	46	132	7
Cd	111	0.111	ug/L	0.008	7	251	649	2
Cd	114	0.069	ug/L	0.003	4	14	651	0
Sb	121	0.119	ug/L	0.002	1	50	1633	4
Sb	123	0.117	ug/L	0.005	4	33	1203	5
Ba	135	16.542	ug/L	0.261	1	13	51613	1
[Ba	137	16.672	ug/L	0.267	1	17	87878	2
> Tb	159		ug/L			525338	498624	2
Tl	205	0.012	ug/L	0.002	14	41	484	10
Pb	208	0.009	ug/L	0.000	1	298	745	2
Bi	209		ug/L			449045	394791	1
Th	232	0.019	ug/L	0.002	12	195	1420	8
[U	238	0.085	ug/L	0.001	1	30	6225	2

ST98 : 01268

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ST98 DSPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 17:04:26

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	507592	0
[Be	9	23.234	ug/L	0.366	1	3	13038	0
C	13		mg/L			4400	12052	0
Cl	37		mg/L			2975540	2488843	0
> Sc	45		ug/L			341467	377164	1
V-1	51	22.248	ug/L	0.295	1	3084	404855	1
V	51	22.284	ug/L	0.280	1	1073	412334	0
Cr	52	22.671	ug/L	0.327	1	9261	370086	0
Cr	53	22.752	ug/L	0.347	1	403	44211	0
Mn	55	8138.876	ug/L	46.967	0	325	224215182	0
Co	59	25.029	ug/L	0.383	1	45	532886	1
> Ge	72		ug/L			509437	423794	0
Ni	60	43.298	ug/L	0.551	1	52	149698	0
Ni	62	41.455	ug/L	0.423	1	74	22140	1
Cu	63	33.201	ug/L	0.155	0	202	265737	0
Cu	65	32.641	ug/L	0.232	0	104	127263	0
Zn	66	80.867	ug/L	0.413	0	1041	208632	0
Zn	67	72.777	ug/L	0.497	0	189	32491	1
Zn	68	78.379	ug/L	1.237	1	10219	153109	2
As-1	75	25.848	ug/L	0.080	0	-97	58840	0
As	75	25.329	ug/L	0.099	0	11864	68257	0
Se	82	83.008	ug/L	0.082	0	9	19064	0
Se	78	78.641	ug/L	0.053	0	12167	58004	0
Mo	98	0.060	ug/L	0.005	7	548	900	3
Y	89		ug/L			375211	392108	1
Kr	83		ug/L			87	79	11
> In	115		ug/L			546264	506860	1
Ag	107	23.750	ug/L	0.220	0	46	389071	1
Cd	111	24.778	ug/L	0.091	0	251	100715	1
Cd	114	24.762	ug/L	0.184	0	14	240405	1
Sb	121	0.119	ug/L	0.005	4	50	1716	3
Sb	123	0.123	ug/L	0.001	0	33	1333	1
Ba	135	41.341	ug/L	0.311	0	13	135901	0
Ba	137	42.128	ug/L	0.103	0	17	233952	0
> Tb	159		ug/L			525338	521466	0
Tl	205	23.435	ug/L	0.261	1	41	924032	1
Pb	208	23.809	ug/L	0.155	0	298	1273253	0
Bi	209		ug/L			449045	410734	1
Th	232	23.274	ug/L	0.210	0	195	1609194	1
U	238	24.201	ug/L	0.092	0	30	1837459	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU21 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 17:10:55

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	481517	0
[Be	9	0.002	ug/L	0.005	204	3	4	56
C	13		mg/L			4400	6956	0
Cl	37		mg/L			2975540	2575961	1
> Sc	45		ug/L			341467	327620	1
V-1	51	0.029	ug/L	0.001	4	3084	3412	1
V	51	0.116	ug/L	0.008	6	1073	2890	2
Cr	52	0.059	ug/L	0.007	11	9261	9693	2
Cr	53	0.324	ug/L	0.020	6	403	928	2
Mn	55	291.408	ug/L	1.566	0	325	6973887	1
[Co	59	0.125	ug/L	0.004	3	45	2348	3
> Ge	72		ug/L			509437	391270	1
Ni	60	2.115	ug/L	0.007	0	52	6790	1
Ni	62	1.501	ug/L	0.027	1	74	795	0
Cu	63	0.279	ug/L	0.009	3	202	2215	2
Cu	65	0.268	ug/L	0.005	1	104	1045	1
Zn	66	1.427	ug/L	0.023	1	1041	4183	0
Zn	67	1.670	ug/L	0.028	1	189	830	2
Zn	68	2.237	ug/L	0.086	3	10219	11658	1
As-1	75	0.467	ug/L	0.017	3	-97	908	4
As	75	0.631	ug/L	0.047	7	11864	10456	1
Se	82	0.083	ug/L	0.050	60	9	25	42
Se	78	0.748	ug/L	0.134	17	12167	9765	1
Mo	98	0.241	ug/L	0.005	1	548	2077	0
Y	89		ug/L			375211	325176	1
Kr	83		ug/L			87	73	9
> In	115		ug/L			546264	461852	0
Ag	107	0.005	ug/L	0.001	11	46	112	7
Cd	111	0.007	ug/L	0.004	57	251	237	6
Cd	114	0.005	ug/L	0.001	16	14	58	13
Sb	121	0.010	ug/L	0.000	3	50	173	3
Sb	123	0.012	ug/L	0.001	4	33	143	3
Ba	135	18.677	ug/L	0.109	0	13	55955	0
[Ba	137	18.710	ug/L	0.220	1	17	94689	1
> Tb	159		ug/L			525338	480592	0
Tl	205	0.005	ug/L	0.001	19	41	215	15
Pb	208	u 0.013	ug/L	0.000	3	298	933	2
Bi	209		ug/L			449045	385078	0
Th	232	0.028	ug/L	0.006	21	195	1930	19
U	238	0.015	ug/L	0.001	6	30	1068	6

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU21 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 17:17:25

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	484507	1
[Be	9	-0.001	ug/L	0.004	443	3	2	65
C	13		mg/L			4400	6897	2
Cl	37		mg/L			2975540	2453959	0
> Sc	45		ug/L			341467	327294	0
V-1	51	0.477	ug/L	0.007	1	3084	10434	1
V	51	0.541	ug/L	0.004	0	1073	9689	1
Cr	52	0.380	ug/L	0.007	1	9261	14111	0
Cr	53	0.581	ug/L	0.018	3	403	1356	1
Mn	55	2.964	ug/L	0.023	0	325	71168	0
Co	59	0.063	ug/L	0.003	4	45	1209	5
> Ge	72		ug/L			509437	388410	0
Ni	60	5.411	ug/L	0.160	2	52	17178	2
Ni	62	4.970	ug/L	0.056	1	74	2482	1
Cu	63	0.371	ug/L	0.013	3	202	2877	2
Cu	65	0.363	ug/L	0.018	5	104	1375	5
Zn	66	1.820	ug/L	0.018	1	1041	5078	1
Zn	67	1.733	ug/L	0.066	3	189	849	2
Zn	68	2.299	ug/L	0.124	5	10219	11677	1
As-1	75	0.153	ug/L	0.023	14	-97	244	20
As	75	0.252	ug/L	0.054	21	11864	9577	0
Se	82	0.129	ug/L	0.017	12	9	34	10
Se	78	0.527	ug/L	0.238	45	12167	9569	0
Mo	98	-0.016	ug/L	0.002	15	548	311	5
Y	89		ug/L			375211	323640	0
Kr	83		ug/L			87	71	2
> In	115		ug/L			546264	462456	0
Ag	107	0.003	ug/L	0.001	51	46	82	26
Cd	111	0.014	ug/L	0.001	4	251	265	1
Cd	114	0.012	ug/L	0.001	10	14	121	8
Sb	121	0.019	ug/L	0.003	18	50	289	15
Sb	123	0.020	ug/L	0.002	10	33	220	9
Ba	135	6.731	ug/L	0.034	0	13	20200	0
Ba	137	6.879	ug/L	0.048	0	17	34869	0
> Tb	159		ug/L			525338	483477	1
Tl	205	0.002	ug/L	0.000	13	41	106	9
Pb	208	0.036	ug/L	0.002	4	298	2070	4
Bi	209		ug/L			449045	384482	0
Th	232	0.013	ug/L	0.003	22	195	1010	17
U	238	0.009	ug/L	0.000	4	30	690	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU21 C REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 17:24:00

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	520239	2
[Be	9	-0.005	ug/L	0.001	26	3	0	86
C	13		mg/L			4400	6681	1
Cl	37		mg/L			2975540	2496135	0
> Sc	45		ug/L			341467	360488	3
V-1	51	1.874	ug/L	0.025	1	3084	35580	3
V	51	1.911	ug/L	0.021	1	1073	34829	3
Cr	52	0.536	ug/L	0.023	4	9261	17899	1
Cr	53	0.739	ug/L	0.037	5	403	1782	0
Mn	55	0.497	ug/L	0.008	1	325	13434	1
[Co	59	0.059	ug/L	0.001	1	45	1239	3
> Ge	72		ug/L			509437	408096	2
Ni	60	3.342	ug/L	0.053	1	52	11167	3
Ni	62	2.867	ug/L	0.080	2	74	1530	4
Cu	63	0.431	ug/L	0.001	0	202	3483	2
Cu	65	0.393	ug/L	0.005	1	104	1559	2
Zn	66	0.657	ug/L	0.019	2	1041	2460	4
Zn	67	0.890	ug/L	0.073	8	189	531	3
Zn	68	1.092	ug/L	0.131	12	10219	10121	0
As-1	75	0.550	ug/L	0.005	0	-97	1128	1
As	75	0.481	ug/L	0.107	22	11864	10568	0
Se	82	0.192	ug/L	0.020	10	9	50	8
Se	78	-0.071	ug/L	0.402	569	12167	9701	0
[Mo	98	0.128	ug/L	0.008	6	548	1352	6
Y	89		ug/L			375211	346646	3
Kr	83		ug/L			87	66	2
> In	115		ug/L			546264	494139	2
Ag	107	0.004	ug/L	0.001	31	46	100	18
Cd	111	0.024	ug/L	0.002	9	251	320	4
Cd	114	0.019	ug/L	0.001	7	14	188	4
Sb	121	0.042	ug/L	0.001	2	50	624	4
Sb	123	0.040	ug/L	0.003	6	33	444	4
Ba	135	6.311	ug/L	0.034	0	13	20236	2
[Ba	137	6.429	ug/L	0.060	0	17	34823	3
> Tb	159		ug/L			525338	517490	2
Tl	205	0.002	ug/L	0.000	9	41	110	4
Pb	208	0.009	ug/L	0.001	11	298	782	8
Bi	209		ug/L			449045	406236	1
Th	232	0.020	ug/L	0.005	27	195	1574	25
[U	238	0.018	ug/L	0.001	4	30	1358	3

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU21 D REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 17:30:32

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	522717	0
[Be	9	-0.001	ug/L	0.001	105	3	2	24
C	13		mg/L			4400	7116	0
Cl	37		mg/L			2975540	2494304	0
> Sc	45		ug/L			341467	359692	1
V-1	51	0.893	ug/L	0.021	2	3084	18618	0
V	51	0.955	ug/L	0.016	1	1073	17936	0
Cr	52	0.136	ug/L	0.013	9	9261	11807	0
Cr	53	0.377	ug/L	0.007	1	403	1116	1
Mn	55	3.289	ug/L	0.017	0	325	86750	1
Co	59	0.079	ug/L	0.007	8	45	1642	8
> Ge	72		ug/L			509437	407444	0
Ni	60	8.791	ug/L	0.038	0	52	29253	0
Ni	62	7.749	ug/L	0.222	2	74	4027	2
Cu	63	0.749	ug/L	0.010	1	202	5923	1
Cu	65	0.689	ug/L	0.013	1	104	2664	1
Zn	66	0.771	ug/L	0.031	3	1041	2736	2
Zn	67	0.983	ug/L	0.049	4	189	571	3
Zn	68	1.206	ug/L	0.056	4	10219	10312	1
As-1	75	0.217	ug/L	0.017	7	-97	397	9
As	75	0.100	ug/L	0.058	58	11864	9709	1
Se	82	0.215	ug/L	0.017	8	9	55	6
Se	78	-0.216	ug/L	0.225	104	12167	9604	1
Mo	98	0.009	ug/L	0.002	23	548	500	3
Y	89		ug/L			375211	351011	0
Kr	83		ug/L			87	72	3
> In	115		ug/L			546264	495135	1
Ag	107	0.002	ug/L	0.000	5	46	69	2
Cd	111	0.019	ug/L	0.001	6	251	303	2
Cd	114	0.016	ug/L	0.001	3	14	164	3
Sb	121	0.034	ug/L	0.002	5	50	507	4
Sb	123	0.034	ug/L	0.000	1	33	378	1
Ba	135	12.555	ug/L	0.174	1	13	40326	1
Ba	137	12.813	ug/L	0.080	0	17	69517	0
> Tb	159		ug/L			525338	521912	1
Tl	205	0.002	ug/L	0.000	22	41	115	14
Pb	208	✓0.008	ug/L	0.001	6	298	710	3
Bi	209		ug/L			449045	401081	0
Th	232	0.007	ug/L	0.000	6	195	669	5
U	238	0.054	ug/L	0.001	1	30	4155	1

ST98 : 01273

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU21 E REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 17:37:03

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	514298	0
[Be	9	0.011	ug/L	0.012	101	3	10	66
C	13		mg/L			4400	7700	0
Cl	37		mg/L			2975540	2424741	0
> Sc	45		ug/L			341467	359295	0
V-1	51	1.212	ug/L	0.036	2	3084	24080	1
V	51	1.269	ug/L	0.026	2	1073	23433	1
Cr	52	0.786	ug/L	0.026	3	9261	21624	1
Cr	53	0.989	ug/L	0.031	3	403	2236	3
Mn	55	98.616	ug/L	0.799	0	325	2588369	0
Co	59	0.097	ug/L	0.001	1	45	2011	0
> Ge	72		ug/L			509437	403392	0
Ni	60	6.298	ug/L	0.072	1	52	20761	0
Ni	62	5.540	ug/L	0.139	2	74	2866	2
Cu	63	1.464	ug/L	0.016	1	202	11308	1
Cu	65	1.454	ug/L	0.006	0	104	5476	0
Zn	66	0.589	ug/L	0.011	1	1041	2265	1
Zn	67	0.608	ug/L	0.051	8	189	406	5
Zn	68	0.882	ug/L	0.110	12	10219	9640	1
As-1	75	0.534	ug/L	0.012	2	-97	1081	2
As	75	0.388	ug/L	0.017	4	11864	10245	0
Se	82	0.319	ug/L	0.063	19	9	77	17
Se	78	-0.229	ug/L	0.044	19	12167	9501	0
Mo	98	0.020	ug/L	0.003	15	548	575	4
Y	89		ug/L			375211	341707	0
Kr	83		ug/L			87	68	10
> In	115		ug/L			546264	482426	1
Ag	107	0.001	ug/L	0.000	33	46	60	11
Cd	111	0.029	ug/L	0.005	17	251	333	5
Cd	114	0.019	ug/L	0.002	8	14	190	8
Sb	121	0.081	ug/L	0.003	3	50	1130	4
Sb	123	0.084	ug/L	0.001	0	33	877	1
Ba	135	3.268	ug/L	0.005	0	13	10237	1
Ba	137	3.288	ug/L	0.057	1	17	17392	0
> Tb	159		ug/L			525338	510938	1
Tl	205	0.001	ug/L	0.000	18	41	90	8
Pb	208	0.011	ug/L	0.001	6	298	861	4
Bi	209	↘	ug/L			449045	399305	0
Th	232	0.007	ug/L	0.000	4	195	657	5
U	238	0.024	ug/L	0.001	5	30	1798	4

ST98 : 01274

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV7

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 17:43:36

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldat\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	441034	2
[Be	9	47.679	ug/L	1.262	2	3	23235	0
C	13		mg/L			4400	3346	1
Cl	37		mg/L			2975540	2487166	1
> Sc	45		ug/L			341467	257048	2
V-1	51	50.798	ug/L	0.244	0	3084	627003	1
V	51	50.911	ug/L	0.234	0	1073	640999	1
Cr	52	51.318	ug/L	0.123	0	9261	562200	2
Cr	53	51.630	ug/L	0.326	0	403	68004	2
Mn	55	50.605	ug/L	0.039	0	325	950395	2
Co	59	51.140	ug/L	0.238	0	45	742078	2
> Ge	72		ug/L			509437	370313	0
Ni	60	53.413	ug/L	1.129	2	52	161367	2
Ni	62	52.182	ug/L	1.384	2	74	24335	2
Cu	63	52.806	ug/L	0.843	1	202	369269	2
Cu	65	52.005	ug/L	0.561	1	104	177148	1
Zn	66	52.806	ug/L	0.884	1	1041	119311	2
Zn	67	51.487	ug/L	0.408	0	189	20125	1
Zn	68	51.610	ug/L	0.887	1	10219	90633	2
As-1	75	50.428	ug/L	0.339	0	-97	100379	1
As	75	50.254	ug/L	0.315	0	11864	109853	1
Se	82	53.289	ug/L	0.351	0	9	10696	1
Se	78	52.556	ug/L	0.291	0	12167	36805	1
Mo	98	54.773	ug/L	0.585	1	548	355981	1
Y	89		ug/L			375211	294164	2
Kr	83		ug/L			87	77	9
> In	115		ug/L			546264	427890	2
Ag	107	49.702	ug/L	0.411	0	46	687273	1
Cd	111	50.382	ug/L	0.401	0	251	172674	2
Cd	114	50.153	ug/L	0.413	0	14	410986	1
Sb	121	49.507	ug/L	0.156	0	50	587652	1
Sb	123	49.193	ug/L	0.197	0	33	441008	1
Ba	135	49.212	ug/L	0.279	0	13	136564	1
Ba	137	49.640	ug/L	0.325	0	17	232697	1
> Tb	159		ug/L			525338	441691	1
Tl	205	46.511	ug/L	0.579	1	41	1553198	1
Pb	208	47.842	ug/L	0.360	0	298	2166690	0
Bi	209		ug/L			449045	363498	1
Th	232	49.340	ug/L	0.675	1	195	2889373	1
U	238	50.441	ug/L	0.542	1	30	3243753	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB7

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 17:50:49

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	463988	0
[Be	9	0.007	ug/L	0.006	84	3	6	43
C	13		mg/L			4400	3851	1
Cl	37		mg/L			2975540	2552130	0
> Sc	45		ug/L			341467	270913	0
V-1	51	0.012	ug/L	0.004	37	3084	2600	2
V	51	-0.002	ug/L	0.002	119	1073	828	3
Cr	52	0.042	ug/L	0.000	1	9261	7823	0
Cr	53	-0.002	ug/L	0.010	581	403	317	4
Mn	55	0.018	ug/L	0.002	8	325	620	4
Co	59	0.002	ug/L	0.000	10	45	67	5
> Ge	72		ug/L			509437	383605	0
Ni	60	0.003	ug/L	0.002	48	52	49	9
Ni	62	0.014	ug/L	0.028	202	74	62	21
Cu	63	0.004	ug/L	0.001	26	202	180	3
Cu	65	0.006	ug/L	0.003	41	104	101	9
Zn	66	-0.258	ug/L	0.007	2	1041	183	9
Zn	67	-0.209	ug/L	0.020	9	189	58	14
Zn	68	0.032	ug/L	0.075	237	10219	7747	1
As-1	75	-0.011	ug/L	0.013	116	-97	-96	27
As	75	0.361	ug/L	0.021	5	11864	9687	0
Se	82	0.006	ug/L	0.057	982	9	8	139
Se	78	1.419	ug/L	0.089	6	12167	9943	0
Mo	98	-0.041	ug/L	0.002	4	548	135	9
Y	89		ug/L			375211	311989	0
Kr	83		ug/L			87	68	6
> In	115		ug/L			546264	445928	0
Ag	107	0.014	ug/L	0.002	12	46	233	10
Cd	111	0.011	ug/L	0.006	56	251	243	8
Cd	114	0.003	ug/L	0.001	30	14	35	19
Sb	121	0.052	ug/L	0.006	12	50	688	10
Sb	123	0.055	ug/L	0.006	11	33	541	10
Ba	135	0.005	ug/L	0.002	36	13	25	20
Ba	137	0.005	ug/L	0.002	43	17	36	26
> Tb	159		ug/L			525338	457846	0
Tl	205	0.006	ug/L	0.001	11	41	227	9
Pb	208	0.005	ug/L	0.001	27	298	475	11
Bi	209		ug/L			449045	385616	0
Th	232	0.044	ug/L	0.001	2	195	2816	1
U	238	0.005	ug/L	0.001	13	30	332	12

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU15 MB1 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 17:58:01

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	462825	1
[Be	9	-0.001	ug/L	0.004	306	3	2	86
C	13		mg/L			4400	5670	2
Cl	37		mg/L			2975540	2576502	0
> Sc	45		ug/L			341467	270593	0
V-1	51	0.029	ug/L	0.006	21	3084	2822	2
V	51	-0.004	ug/L	0.001	21	1073	793	1
Cr	52	0.098	ug/L	0.019	19	9261	8457	1
Cr	53	-0.009	ug/L	0.015	160	403	307	6
Mn	55	0.049	ug/L	0.002	3	325	1230	3
Co	59	0.001	ug/L	0.001	60	45	49	17
> Ge	72		ug/L			509437	380520	0
Ni	60	0.009	ug/L	0.006	69	52	67	29
Ni	62	0.032	ug/L	0.005	13	74	70	3
Cu	63	0.034	ug/L	0.001	3	202	395	2
Cu	65	0.038	ug/L	0.004	10	104	211	6
Zn	66	-0.071	ug/L	0.003	4	1041	612	0
Zn	67	-0.031	ug/L	0.013	41	189	128	3
Zn	68	0.250	ug/L	0.026	10	10219	8047	0
As-1	75	0.161	ug/L	0.016	9	-97	255	13
As	75	0.604	ug/L	0.047	7	11864	10111	0
Se	82	0.053	ug/L	0.016	30	9	18	18
Se	78	1.744	ug/L	0.197	11	12167	10041	0
Mo	98	-0.049	ug/L	0.002	3	548	83	12
Y	89		ug/L			375211	309194	0
Kr	83		ug/L			87	68	2
> In	115		ug/L			546264	445509	0
Ag	107	0.004	ug/L	0.000	6	46	97	4
Cd	111	0.007	ug/L	0.003	46	251	229	4
Cd	114	0.001	ug/L	0.000	27	14	18	9
Sb	121	0.015	ug/L	0.003	16	50	229	13
Sb	123	0.015	ug/L	0.001	9	33	171	7
Ba	135	0.014	ug/L	0.002	14	13	50	11
Ba	137	0.011	ug/L	0.001	6	17	65	5
> Tb	159		ug/L			525338	454690	1
Tl	205	0.002	ug/L	0.001	38	41	96	25
Pb	208	0.004	ug/L	0.000	12	298	436	6
Bi	209		ug/L			449045	382909	0
Th	232	0.014	ug/L	0.001	4	195	1037	3
U	238	0.001	ug/L	0.000	38	30	82	27

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU15 MB2 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 18:04:34

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	468152	2
[Be	9	-0.002	ug/L	0.003	131	3	2	69
C	13		mg/L			4400	5703	0
Cl	37		mg/L			2975540	2617670	0
> Sc	45		ug/L			341467	272618	1
V-1	51	0.032	ug/L	0.011	34	3084	2875	5
V	51	0.000	ug/L	0.002	1028	1073	859	3
Cr	52	0.097	ug/L	0.003	3	9261	8512	1
Cr	53	-0.003	ug/L	0.027	783	403	317	10
Mn	55	0.069	ug/L	0.003	5	325	1627	3
Co	59	0.015	ug/L	0.001	4	45	264	4
> Ge	72		ug/L			509437	387532	0
Ni	60	0.010	ug/L	0.002	22	52	72	10
Ni	62	0.032	ug/L	0.019	57	74	72	12
Cu	63	0.044	ug/L	0.003	5	202	473	3
Cu	65	0.037	ug/L	0.001	2	104	212	1
Zn	66	0.080	ug/L	0.010	11	1041	979	2
Zn	67	0.084	ug/L	0.025	30	189	177	5
Zn	68	0.361	ug/L	0.116	32	10219	8382	2
As-1	75	0.024	ug/L	0.003	12	-97	-23	26
As	75	0.418	ug/L	0.016	3	11864	9905	0
Se	82	0.040	ug/L	0.052	128	9	15	68
Se	78	1.547	ug/L	0.039	2	12167	10116	0
Mo	98	-0.054	ug/L	0.001	2	548	49	16
Y	89		ug/L			375211	314286	0
Kr	83		ug/L			87	71	12
> In	115		ug/L			546264	450530	0
Ag	107	0.001	ug/L	0.001	62	46	58	21
Cd	111	0.007	ug/L	0.002	24	251	232	3
Cd	114	0.000	ug/L	0.000	51	14	14	11
Sb	121	0.007	ug/L	0.001	16	50	123	10
Sb	123	0.007	ug/L	0.001	8	33	93	6
Ba	135	0.014	ug/L	0.004	27	13	52	21
Ba	137	0.016	ug/L	0.002	10	17	92	7
> Tb	159		ug/L			525338	462371	0
Tl	205	0.001	ug/L	0.000	47	41	54	15
Pb	208	0.004	ug/L	0.000	8	298	450	3
Bi	209		ug/L			449045	388932	0
Th	232	0.007	ug/L	0.000	6	195	606	4
U	238	0.000	ug/L	0.000	41	30	51	19

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU15 MB1SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 18:11:07

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	463506	0
[Be	9	22.848	ug/L	0.293	1	3	11708	0
C	13		mg/L			4400	6601	2
Cl	37		mg/L			2975540	2602213	0
> Sc	45		ug/L			341467	273458	0
V-1	51	24.475	ug/L	0.108	0	3084	322682	0
V	51	24.441	ug/L	0.150	0	1073	327831	0
Cr	52	24.660	ug/L	0.255	1	9261	291234	0
Cr	53	24.543	ug/L	0.253	1	403	34555	0
Mn	55	25.015	ug/L	0.217	0	325	499900	0
Co	59	25.703	ug/L	0.326	1	45	396760	0
> Ge	72		ug/L			509437	387082	0
Ni	60	26.794	ug/L	0.404	1	52	84628	1
Ni	62	26.664	ug/L	0.535	2	74	13025	1
Cu	63	27.518	ug/L	0.305	1	202	201204	0
Cu	65	27.285	ug/L	0.248	0	104	97181	0
Zn	66	81.355	ug/L	0.839	1	1041	191707	1
Zn	67	73.358	ug/L	0.770	1	189	29910	0
Zn	68	78.943	ug/L	0.445	0	10219	140789	0
As-1	75	24.380	ug/L	0.189	0	-97	50688	0
As	75	24.490	ug/L	0.249	1	11864	60577	0
Se	82	80.094	ug/L	0.297	0	9	16801	0
Se	78	78.165	ug/L	0.557	0	12167	52713	0
Mo	98	26.651	ug/L	0.156	0	548	181260	0
Y	89		ug/L			375211	311190	0
Kr	83		ug/L			87	73	4
> In	115		ug/L			546264	448188	0
Ag	107	25.174	ug/L	0.281	1	46	364664	0
Cd	111	24.774	ug/L	0.211	0	251	89040	0
Cd	114	24.498	ug/L	0.150	0	14	210301	0
Sb	121	23.684	ug/L	0.174	0	50	294494	0
Sb	123	23.762	ug/L	0.083	0	33	223140	0
Ba	135	24.210	ug/L	0.334	1	13	70379	1
Ba	137	24.415	ug/L	0.215	0	17	119898	0
> Tb	159		ug/L			525338	456971	0
Tl	205	23.216	ug/L	0.289	1	41	802138	0
Pb	208	24.053	ug/L	0.166	0	298	1127169	0
Bi	209		ug/L			449045	387932	0
Th	232	22.913	ug/L	0.275	1	195	1388258	1
U	238	23.327	ug/L	0.145	0	30	1552011	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU15 MB2SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 18:17:41

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	464073	0
[Be	9	23.878	ug/L	0.317	1	3	12252	1
C	13		mg/L			4400	6334	2
Cl	37		mg/L			2975540	2615234	0
> Sc	45		ug/L			341467	271724	1
V-1	51	26.222	ug/L	0.286	1	3084	343325	0
V	51	26.162	ug/L	0.249	0	1073	348605	0
Cr	52	26.338	ug/L	0.299	1	9261	308569	0
Cr	53	26.145	ug/L	0.376	1	403	36557	1
Mn	55	26.806	ug/L	0.370	1	325	532301	1
Co	59	26.870	ug/L	0.210	0	45	412153	1
> Ge	72		ug/L			509437	386888	0
Ni	60	28.540	ug/L	0.138	0	52	90098	0
Ni	62	27.802	ug/L	0.094	0	74	13573	0
Cu	63	28.944	ug/L	0.304	1	202	211525	1
Cu	65	28.241	ug/L	0.221	0	104	100535	0
Zn	66	85.569	ug/L	0.045	0	1041	201495	0
Zn	67	76.332	ug/L	0.629	0	189	31103	1
Zn	68	82.870	ug/L	0.242	0	10219	147330	0
As-1	75	25.653	ug/L	0.250	0	-97	53311	0
As	75	25.693	ug/L	0.140	0	11864	63082	0
Se	82	84.225	ug/L	1.191	1	9	17658	0
Se	78	81.908	ug/L	0.178	0	12167	54767	0
Mo	98	27.878	ug/L	0.435	1	548	189481	1
Y	89		ug/L			375211	311260	0
Kr	83		ug/L			87	72	5
> In	115		ug/L			546264	449269	0
Ag	107	26.562	ug/L	0.119	0	46	385710	1
Cd	111	26.174	ug/L	0.423	1	251	94283	1
Cd	114	25.812	ug/L	0.147	0	14	222120	1
Sb	121	24.933	ug/L	0.238	0	50	310767	0
Sb	123	24.924	ug/L	0.194	0	33	234615	0
Ba	135	25.475	ug/L	0.252	0	13	74233	0
Ba	137	25.827	ug/L	0.340	1	17	127126	0
> Tb	159		ug/L			525338	457487	0
Tl	205	24.534	ug/L	0.140	0	41	848636	0
Pb	208	25.416	ug/L	0.129	0	298	1192359	0
Bi	209		ug/L			449045	387727	0
Th	232	24.246	ug/L	0.214	0	195	1470643	0
U	238	24.575	ug/L	0.317	1	30	1636840	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU21 F REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 18:24:15

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	457979	2
[Be	9	0.013	ug/L	0.001	10	3	9	7
C	13		mg/L			4400	6690	1
Cl	37		mg/L			2975540	2439608	1
> Sc	45		ug/L			341467	322137	3
V-1	51	0.631	ug/L	0.018	2	3084	12627	2
V	51	0.696	ug/L	0.010	1	1073	11980	2
Cr	52	0.902	ug/L	0.032	3	9261	20960	2
Cr	53	1.084	ug/L	0.008	0	403	2161	2
Mn	55	21.693	ug/L	0.214	0	325	510631	2
[Co	59	0.161	ug/L	0.002	1	45	2973	3
> Ge	72		ug/L			509437	373063	1
Ni	60	6.586	ug/L	0.149	2	52	20080	3
Ni	62	6.045	ug/L	0.040	0	74	2888	1
Cu	63	0.499	ug/L	0.003	0	202	3659	1
Cu	65	0.532	ug/L	0.009	1	104	1901	1
Zn	66	0.675	ug/L	0.036	5	1041	2290	4
Zn	67	0.847	ug/L	0.113	13	189	469	9
Zn	68	1.409	ug/L	0.066	4	10219	9771	1
As-1	75	0.397	ug/L	0.008	2	-97	725	3
As	75	0.697	ug/L	0.089	12	11864	10102	2
Se	82	0.163	ug/L	0.027	16	9	40	14
Se	78	1.330	ug/L	0.301	22	12167	9622	1
[Mo	98	-0.034	ug/L	0.002	6	548	181	9
Y	89		ug/L			375211	312123	2
Kr	83		ug/L			87	69	2
> In	115		ug/L			546264	438782	2
Ag	107	0.015	ug/L	0.003	17	46	249	15
Cd	111	0.034	ug/L	0.005	14	251	320	4
Cd	114	0.029	ug/L	0.000	1	14	252	3
Sb	121	0.059	ug/L	0.002	2	50	759	3
Sb	123	0.058	ug/L	0.006	10	33	565	11
Ba	135	9.048	ug/L	0.111	1	13	25758	2
[Ba	137	9.138	ug/L	0.112	1	17	43946	3
> Tb	159		ug/L			525338	455015	2
Tl	205	0.012	ug/L	0.003	23	41	438	22
Pb	208	0.020	ug/L	0.003	15	298	1189	13
Bi	209		ug/L			449045	365795	2
Th	232	0.087	ug/L	0.026	29	195	5421	29
[U	238	0.028	ug/L	0.002	6	30	1851	8

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU15 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 18:30:49

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	461231	2
[Be	9	0.004	ug/L	0.005	136	3	5	50
C	13		mg/L			4400	7081	2
Cl	37		mg/L			2975540	2455274	0
> Sc	45		ug/L			341467	306286	3
V-1	51	1.556	ug/L	0.050	3	3084	25556	1
V	51	1.527	ug/L	0.042	2	1073	23835	2
Cr	52	0.192	ug/L	0.034	17	9261	10770	1
Cr	53	0.195	ug/L	0.006	2	403	666	4
Mn	55	2.532	ug/L	0.035	1	325	56922	2
Co	59	0.111	ug/L	0.003	2	45	1962	3
> Ge	72		ug/L			509437	375330	1
Ni	60	2.440	ug/L	0.023	0	52	7506	0
Ni	62	0.895	ug/L	0.046	5	74	476	4
Cu	63	2.934	ug/L	0.005	0	202	20932	1
Cu	65	2.869	ug/L	0.049	1	104	9975	0
Zn	66	8.038	ug/L	0.114	1	1041	19058	2
Zn	67	6.823	ug/L	0.185	2	189	2823	1
Zn	68	8.063	ug/L	0.159	1	10219	20700	0
As-1	75	56.493	ug/L	0.412	0	-97	113977	1
As	75	56.114	ug/L	0.446	0	11864	123297	1
Se	82	0.319	ug/L	0.033	10	9	72	10
Se	78	1.261	ug/L	0.199	15	12167	9642	0
[Mo	98	11.204	ug/L	0.141	1	548	74124	2
Y	89		ug/L			375211	313434	2
Kr	83		ug/L			87	68	8
> In	115		ug/L			546264	449751	1
Ag	107	0.012	ug/L	0.000	2	46	217	3
Cd	111	0.049	ug/L	0.005	9	251	384	4
Cd	114	0.061	ug/L	0.001	2	14	539	3
Sb	121	3.155	ug/L	0.030	0	50	39407	1
Sb	123	3.150	ug/L	0.019	0	33	29711	2
Ba	135	1.044	ug/L	0.023	2	13	3054	1
[Ba	137	1.056	ug/L	0.023	2	17	5216	1
> Tb	159		ug/L			525338	459055	1
Tl	205	0.006	ug/L	0.001	13	41	255	12
Pb	208	0.018	ug/L	0.001	3	298	1124	4
Bi	209		ug/L			449045	372391	1
Th	232	0.022	ug/L	0.001	5	195	1534	5
[U	238	0.309	ug/L	0.002	0	30	20659	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU15 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 18:37:24

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	438468	1
[Be	9	0.006	ug/L	0.004	67	3	5	32
C	13		mg/L			4400	7300	1
Cl	37		mg/L			2975540	2534669	0
> Sc	45		ug/L			341467	324550	0
V-1	51	2.165	ug/L	0.022	1	3084	36542	1
V	51	2.159	ug/L	0.025	1	1073	35293	1
Cr	52	0.279	ug/L	0.010	3	9261	12610	0
Cr	53	0.388	ug/L	0.005	1	403	1025	1
Mn	55	234.063	ug/L	3.835	1	325	5548991	1
[Co	59	0.211	ug/L	0.003	1	45	3916	1
> Ge	72		ug/L			509437	375625	1
Ni	60	1.145	ug/L	0.027	2	52	3545	3
Ni	62	0.651	ug/L	0.042	6	74	362	6
Cu	63	2.958	ug/L	0.024	0	202	21123	1
Cu	65	2.399	ug/L	0.066	2	104	8358	1
Zn	66	2.632	ug/L	0.031	1	1041	6762	2
Zn	67	2.533	ug/L	0.101	3	189	1137	4
Zn	68	3.411	ug/L	0.131	3	10219	13111	0
As-1	75	164.498	ug/L	1.395	0	-97	332291	1
As	75	163.049	ug/L	1.416	0	11864	341886	1
Se	82	0.281	ug/L	0.021	7	9	64	6
Se	78	1.729	ug/L	0.293	16	12167	9903	0
[Mo	98	81.848	ug/L	0.322	0	548	539374	1
Y	89		ug/L			375211	303545	1
Kr	83		ug/L			87	70	4
> In	115		ug/L			546264	427508	1
Ag	107	0.026	ug/L	0.002	6	46	389	5
Cd	111	0.250	ug/L	0.012	4	251	1051	5
Cd	114	0.373	ug/L	0.006	1	14	3068	2
Sb	121	1.198	ug/L	0.024	2	50	14244	1
Sb	123	1.186	ug/L	0.011	0	33	10652	2
Ba	135	2.733	ug/L	0.020	0	13	7586	1
[Ba	137	2.737	ug/L	0.071	2	17	12829	1
> Tb	159		ug/L			525338	440775	2
Tl	205	0.002	ug/L	0.000	17	41	107	11
Pb	208	0.154	ug/L	0.002	1	298	7192	0
Bi	209		ug/L			449045	356438	1
Th	232	0.042	ug/L	0.001	2	195	2644	0
[U	238	1.605	ug/L	0.011	0	30	103042	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU15 C REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 18:44:00

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	443109	0
[Be	9	0.014	ug/L	0.007	47	3	10	33
C	13		mg/L			4400	7043	3
Cl	37		mg/L			2975540	2624079	0
> Sc	45		ug/L			341467	342520	0
V-1	51	0.897	ug/L	0.005	0	3084	17795	0
V	51	0.895	ug/L	0.004	0	1073	16073	0
Cr	52	0.245	ug/L	0.014	5	9261	12823	1
Cr	53	0.283	ug/L	0.010	3	403	898	2
Mn	55	454.540	ug/L	5.859	1	325	11372245	1
[Co	59	0.486	ug/L	0.012	2	45	9444	2
> Ge	72		ug/L			509437	395791	0
Ni	60	2.621	ug/L	0.029	1	52	8500	1
Ni	62	0.548	ug/L	0.046	8	74	330	7
Cu	63	0.496	ug/L	0.014	2	202	3865	2
Cu	65	0.342	ug/L	0.010	2	104	1323	3
Zn	66	1.333	ug/L	0.013	0	1041	4007	1
Zn	67	1.228	ug/L	0.061	4	189	656	4
Zn	68	2.136	ug/L	0.051	2	10219	11619	1
As-1	75	4.680	ug/L	0.073	1	-97	9887	0
As	75	4.959	ug/L	0.106	2	11864	19892	0
Se	82	0.329	ug/L	0.005	1	9	78	0
Se	78	1.614	ug/L	0.198	12	12167	10370	1
[Mo	98	2.075	ug/L	0.033	1	548	14819	1
Y	89		ug/L			375211	313250	0
Kr	83		ug/L			87	79	1
> In	115		ug/L			546264	447153	0
[Ag	107	0.003	ug/L	0.001	44	46	75	22
Cd	111	0.263	ug/L	0.011	4	251	1146	3
Cd	114	0.251	ug/L	0.009	3	14	2158	3
Sb	121	0.063	ug/L	0.001	0	50	820	0
Sb	123	0.060	ug/L	0.005	7	33	593	7
Ba	135	4.150	ug/L	0.031	0	13	12046	0
[Ba	137	4.162	ug/L	0.030	0	17	20406	1
> Tb	159		ug/L			525338	436877	0
Tl	205	0.002	ug/L	0.000	5	41	88	4
Pb	208	0.020	ug/L	0.001	5	298	1161	4
Bi	209		ug/L			449045	364790	0
Th	232	0.014	ug/L	0.000	0	195	976	0
[U	238	0.784	ug/L	0.006	0	30	49902	0

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU15 D REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 18:50:36

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	452119	0
[Be	9	0.011	ug/L	0.004	38	3	8	24
C	13		mg/L			4400	8272	1
Cl	37		mg/L			2975540	2848776	0
> Sc	45		ug/L			341467	357202	0
V-1	51	0.674	ug/L	0.012	1	3084	14748	2
V	51	0.744	ug/L	0.015	2	1073	14125	2
Cr	52	0.150	ug/L	0.016	10	9261	11945	2
Cr	53	0.400	ug/L	0.015	3	403	1150	3
Mn	55	438.409	ug/L	2.242	0	325	11438760	0
Co	59	0.134	ug/L	0.004	3	45	2755	3
> Ge	72		ug/L			509437	400709	0
Ni	60	1.586	ug/L	0.046	2	52	5226	3
Ni	62	0.818	ug/L	0.018	2	74	470	1
Cu	63	0.585	ug/L	0.003	0	202	4581	0
Cu	65	0.327	ug/L	0.012	3	104	1285	3
Zn	66	0.478	ug/L	0.007	1	1041	1979	0
Zn	67	0.564	ug/L	0.049	8	189	385	5
Zn	68	1.418	ug/L	0.109	7	10219	10510	1
As-1	75	0.664	ug/L	0.012	1	-97	1355	1
As	75	1.100	ug/L	0.017	1	11864	11730	0
Se	82	0.274	ug/L	0.035	12	9	67	11
Se	78	1.949	ug/L	0.086	4	12167	10692	0
Mo	98	-0.031	ug/L	0.003	9	548	216	9
Y	89		ug/L			375211	316960	0
Kr	83		ug/L			87	71	6
> In	115		ug/L			546264	451734	0
Ag	107	0.002	ug/L	0.000	11	46	67	4
Cd	111	0.019	ug/L	0.006	33	251	277	8
Cd	114	0.004	ug/L	0.001	22	14	43	16
Sb	121	0.017	ug/L	0.001	3	50	257	2
Sb	123	0.021	ug/L	0.003	12	33	222	11
Ba	135	3.839	ug/L	0.036	0	13	11257	0
Ba	137	3.853	ug/L	0.058	1	17	19081	1
> Tb	159		ug/L			525338	444663	0
Tl	205	0.000	ug/L	0.000	33	41	45	8
Pb	208	0.013	ug/L	0.000	1	298	838	1
Bi	209		ug/L			449045	373584	0
Th	232	0.012	ug/L	0.001	6	195	862	5
U	238	0.001	ug/L	0.000	8	30	105	6

SUS *2011-05-06*
ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU4 E REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Friday, May 06, 2011 18:57:08

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

T/BL

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	470403	1
[Be	9	0.000	ug/L	0.001	774	3	3	21
C	13		mg/L			4400	7187	2
Cl	37		mg/L			2975540	2682114	0
> Sc	45		ug/L			341467	357275	0
V-1	51	0.867	ug/L	0.012	1	3084	18040	1
V	51	0.889	ug/L	0.003	0	1073	16665	0
Cr	52	0.317	ug/L	0.007	2	9261	14455	0
Cr	53	0.423	ug/L	0.026	6	403	1193	3
Mn	55	326.555	ug/L	2.755	0	325	8522392	0
Co	59	0.210	ug/L	0.017	7	45	4279	7
> Ge	72		ug/L			509437	419927	0
Ni	60	1.295	ug/L	0.036	2	52	4477	3
Ni	62	0.556	ug/L	0.022	3	74	354	2
Cu	63	0.920	ug/L	0.011	1	202	7457	1
Cu	65	0.652	ug/L	0.026	3	104	2604	3
Zn	66	26.402	ug/L	0.154	0	1041	68073	0
Zn	67	22.770	ug/L	0.256	1	189	10179	1
Zn	68	26.292	ug/L	0.252	0	10219	56485	0
As-1	75	3256.076	ug/L	20.544	0	-97	7354543	0
As	75	3220.151	ug/L	20.369	0	11864	7365056	0
Se	82	0.117	ug/L	0.032	27	9	34	20
Se	78	1.227	ug/L	0.254	20	12167	10768	0
Mo	98	11.294	ug/L	0.072	0	548	83594	1
Y	89		ug/L			375211	331796	1
Kr	83		ug/L			87	80	5
> In	115		ug/L			546264	472798	0
Ag	107	0.002	ug/L	0.001	37	46	63	14
Cd	111	0.074	ug/L	0.008	10	251	498	6
Cd	114	0.096	ug/L	0.002	2	14	882	2
Sb	121	0.042	ug/L	0.002	4	50	588	4
Sb	123	0.041	ug/L	0.003	8	33	439	8
Ba	135	2.736	ug/L	0.042	1	13	8401	1
Ba	137	2.745	ug/L	0.031	1	17	14236	1
> Tb	159		ug/L			525338	469052	1
Tl	205	0.000	ug/L	0.000	29	41	49	7
Pb	208	0.020	ug/L	0.001	3	298	1225	3
Bi	209		ug/L			449045	392922	0
Th	232	0.012	ug/L	0.001	7	195	917	6
U	238	0.008	ug/L	0.001	6	30	542	5

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV8

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 19:03:40

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	512736	1
[Be	9	48.016	ug/L	0.630	1	3	27214	0
C	13		mg/L			4400	3696	0
Cl	37		mg/L			2975540	2755516	0
> Sc	45		ug/L			341467	309495	1
V-1	51	50.881	ug/L	0.554	1	3084	756124	0
V	51	51.069	ug/L	0.486	0	1073	774133	1
Cr	52	50.830	ug/L	0.438	0	9261	670486	1
Cr	53	51.409	ug/L	0.370	0	403	81524	1
Mn	55	50.596	ug/L	0.100	0	325	1144076	1
Co	59	51.227	ug/L	0.621	1	45	894960	2
> Ge	72		ug/L			509437	435137	1
Ni	60	54.473	ug/L	0.407	0	52	193372	1
Ni	62	52.987	ug/L	0.368	0	74	29037	1
Cu	63	53.330	ug/L	0.403	0	202	438213	2
Cu	65	52.564	ug/L	0.417	0	104	210392	2
Zn	66	52.950	ug/L	0.384	0	1041	140579	2
Zn	67	52.006	ug/L	0.134	0	189	23885	1
Zn	68	51.981	ug/L	0.283	0	10219	107189	1
As-1	75	50.775	ug/L	0.084	0	-97	118760	1
As	75	50.316	ug/L	0.070	0	11864	129226	1
Se	82	53.376	ug/L	0.198	0	9	12589	1
Se	78	51.548	ug/L	0.436	0	12167	42616	1
Mo	98	55.167	ug/L	0.691	1	548	421324	2
Y	89		ug/L			375211	342513	1
Kr	83		ug/L			87	84	6
> In	115		ug/L			546264	500881	1
Ag	107	50.387	ug/L	0.573	1	46	815663	2
Cd	111	51.063	ug/L	0.310	0	251	204876	2
Cd	114	50.756	ug/L	0.777	1	14	486836	0
Sb	121	49.105	ug/L	0.282	0	50	682308	1
Sb	123	48.912	ug/L	0.406	0	33	513246	1
Ba	135	48.705	ug/L	0.608	1	13	158203	0
Ba	137	49.194	ug/L	0.654	1	17	269932	0
> Tb	159		ug/L			525338	497201	0
Tl	205	47.318	ug/L	0.208	0	41	1778824	0
Pb	208	48.549	ug/L	0.109	0	298	2475134	0
Bi	209		ug/L			449045	415525	0
Th	232	50.459	ug/L	0.273	0	195	3326247	0
U	238	51.464	ug/L	0.208	0	30	3725600	1

ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB8

Sample Dil Factor:

Comments:

Sample Date/Time: Friday, May 06, 2011 19:10:52

Number of Replicates: 3

Method File: c:\elandata\Method\2008LoNoMinNoRh.mth

Tuning File: c:\elandata\Tuning\2008.tun

Optimization File: c:\elandata\Optimize\arioptimize.dac

Calibration File: C:\Elandata\Caldata\050611.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			483935	522092	0
[Be	9	0.002	ug/L	0.001	73	3	4	15
C	13		mg/L			4400	4121	1
Cl	37		mg/L			2975540	2798128	0
> Sc	45		ug/L			341467	320017	0
V-1	51	0.013	ug/L	0.005	42	3084	3086	2
V	51	-0.010	ug/L	0.001	5	1073	848	1
Cr	52	0.028	ug/L	0.007	24	9261	9057	1
Cr	53	-0.043	ug/L	0.015	34	403	307	8
Mn	55	0.012	ug/L	0.001	12	325	580	6
Co	59	0.003	ug/L	0.000	15	45	88	8
> Ge	72		ug/L			509437	449417	1
Ni	60	0.003	ug/L	0.001	26	52	57	5
Ni	62	0.038	ug/L	0.021	55	74	87	14
Cu	63	0.003	ug/L	0.000	8	202	206	0
Cu	65	0.007	ug/L	0.003	40	104	121	9
Zn	66	-0.259	ug/L	0.004	1	1041	213	5
Zn	67	-0.241	ug/L	0.005	2	189	53	3
Zn	68	-0.385	ug/L	0.064	16	10219	8261	0
As-1	75	0.043	ug/L	0.002	5	-97	17	32
As	75	0.066	ug/L	0.073	110	11864	10627	0
Se	82	0.003	ug/L	0.005	172	9	9	13
Se	78	0.072	ug/L	0.286	397	12167	10778	0
Mo	98	-0.037	ug/L	0.002	4	548	195	8
Y	89		ug/L			375211	360458	1
Kr	83		ug/L			87	71	3
> In	115		ug/L			546264	518796	1
Ag	107	0.012	ug/L	0.001	9	46	247	6
Cd	111	0.012	ug/L	0.002	17	251	287	3
Cd	114	0.003	ug/L	0.001	17	14	46	10
Sb	121	0.054	ug/L	0.005	9	50	822	10
Sb	123	0.053	ug/L	0.007	12	33	607	13
Ba	135	0.003	ug/L	0.001	30	13	24	13
Ba	137	0.005	ug/L	0.001	21	17	43	12
> Tb	159		ug/L			525338	509583	1
Tl	205	0.005	ug/L	0.001	10	41	242	8
Pb	208	0.004	ug/L	0.000	13	298	487	6
Bi	209		ug/L			449045	434864	1
Th	232	0.044	ug/L	0.003	6	195	3157	5
U	238	0.005	ug/L	0.000	8	30	436	7

Good copy

**General Chemistry Raw Data
Analyst Notes and Raw Data**

ARI Job ID: ST98, SU21



Calibration

Date:	4-26-11	Buffer	Source	Lot #	pH	Temp.
Time:	10:45	2.00	RICCA	1006441	2.00	22.1
Analyst:	W/W	4.00	Fisher	102497	4.00	22.0
		7.00	RICCA	1008595	7.01	22.1
		10.00	Fisher	101681	10.04	22.0
		12.00	RICCA	1008411	11.96	21.7
		Verification	Fisher	106255		
Electrolyte Check (analysts initials):						

Sample pH

Sample ID	1	2	3	4	5	Temperature
ICV	7.05	7.04				22.1
ST53A2	8.80	8.80				18.6
ST72A1	6.20	6.20			BOD	17.8
CCV	7.05	7.04				22.0
CCU	7.04	7.04				22.5
ST97 C2	10.54	10.54				19.8
CCU	7.04	7.04				22.5
ST98 A'	6.69	6.68				19.6
B'	6.52	6.52				18.9
C'	6.21	6.21				19.0
D'	6.02	6.01				19.1
ST99 CCV A'	6.40	6.41			Color	19.9
B'	6.65	6.65			Color	19.8
Su00	7.06	7.06			BOD	19.2
CCU	7.04	7.05				22.5
CCV						

4-26-11
(A)

TOTAL SUSPENDED SOLIDS / VOLATILE SUSPENDED SOLIDS (TSS / TVSS)															
Methods : SM 2540 D-97, 2540 E-97			Drying Ovens: 12			Analytical Balance: 1123230597			DATE: 4/27/2011						
Instrumentation			Muffle Furnace: NA						ANALYST: CDE 14:15						
TSS (mg/l) calculated as: Final dry wt (mg) = (minimum Dry Wt - Tare Wt)*1000 TSS = [(Final Dry Wt)/ ml Sample] * 1000 if dy wt < 1mg, TSS = <1mg / mL sample * 1000 with "<" flag															
Loss on ignition (LOI) = TVSS (mg/L) calculated as: LOI (mg) = Dry wt(mg) -(min ash wt - tare wt) * 1000 TVSS (mg/L) = LOI / mL sample * 1000 if LOI <1mg, TVSS = <1mg / mL sample * 1000 with "<" flag															
LCS source: Cellulose, MP Biomedicals Lot# 6399J mg/L TSS															
SAMPLE ID	DISH #	filtered (mL)	TARE WT (grams)	DRY WT 104C (grams)				1000 DryWT (mg)	TSS (mg/L)	ASH WT 550C (grams)				LOI (mg)	TVSS (mg/l)
				1	2	3	4			1	2	3	4		
	Cal Weight ID		CV-02	CV-02	CV-02	CV-02	CV-02			CV-02	CV-02	CV-02	CV-02		
	Date & Time			4/27/11 18:42	4/27/11 18:18										
	Cal Wt (g)	10.0000		10.0000	10.0000										
	record weights to 4 places			Cal OK!	Cal OK!										
BLANK		1000	0.1146	0.1143	0.1143	STOP	-0.3	< 1							
LCS #		1000	0.1151	0.1632	0.1632	STOP	48.1	48.1	96.2%	% Recovery					
ST53 A2		200	0.1131	0.1448	0.1448	STOP	31.7	158.5							
ST53 A2 dup		200	0.1133	0.1430	0.1431	STOP	29.7	148.5							
								RPD =	6.5%						
ST59 A2		250	0.1154	0.1222	0.1222	STOP	6.8	27.2							
ST59 A2 dup		250	0.1159	0.1231	0.1232	STOP	7.2	28.8							
								RPD =	5.7%						
ST64 A4		930	0.1159	0.1219	0.1219	STOP	6.0	6.5							
ST64 B2		450	0.1160	0.1245	0.1245	STOP	8.5	18.9							
ST64 B2 dup		450	0.1148	0.1233	0.1233	STOP	8.5	18.9							
								RPD =	0.0%						
ST66 B1		895	0.1142	0.1140	0.1139	STOP	-0.3	< 1.1							
ST71 A5		965	0.1140	0.1156	0.1156	STOP	1.6	1.7							
ST71 B5		460	0.1151	0.1220	0.1220	STOP	6.9	15.0							
ST71 B5 dup		460	0.1136	0.1204	0.1204	STOP	6.8	14.8							
								RPD =	1.3%						
ST72 A5		950	0.1154	0.1289	0.1288	STOP	13.4	14.1							
ST86 A3		910	0.1159	0.1167	0.1167	STOP	0.8	< 1.1							
ST86 B1		965	0.1147	0.1208	0.1209	STOP	6.1	6.3							
ST86 B2 DUP		945	0.1151	0.1171	0.1171	STOP	2.0	2.1							
								RPD =	100.0%						
ST98 A8		950	0.1158	0.1165	0.1164	STOP	0.6	< 1.1							
ST98 B8		900	0.1141	0.1139	0.1139	STOP	-0.2	< 1.1							
ST98 C8		940	0.1148	0.1303	0.1302	STOP	15.4	16.4							
ST98 D21		910	0.1148	0.1164	0.1163	STOP	1.5	1.6							
ST98 D22 DUP		840	0.1148	0.1161	0.1160	STOP	1.2	1.4							
								RPD =	13.3%						
								RPD =	13.3%						



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TOTAL SUSPENDED (TSS) / TOTAL VOLATILE SUSPENDED SOLID (TVSS) BENCHSHEET

Sample ID	Dish #	Filtered mL	Tare	Dry Weight 104°C (grams)		Dry Wt mg	TSS	Ash Weight 550°C		LOI - mg	TVSS mg/L
				1	2			1	2		
BLANK	20376	1000	0.1146	0.1143	0.1143						
LCS# 574-5	77	✓	0.1151	0.1632	0.1632						
ST53 A ²	78	200	0.1131	0.1448	0.1448						
↓ A ² W	79	✓	0.1133	0.1430	0.1431						
ST59 A ²	80	250	0.1154	0.1222	0.1222						
↓ A ² W	91	✓	0.1159	0.1231	0.1232						
ST64 A ⁴	82	930	0.1159	0.1219	0.1219						
↓ B ²	83	450	0.1160	0.1245	0.1245						
↓ B ² W	84	✓	0.1148	0.1233	0.1233						
ST66 B ¹	85	895	0.1142	0.1140	0.1139						
ST71 A ⁵	86	965	0.1140	0.1156	0.1156						
↓ B ⁵	87	460	0.1151	0.1220	0.1220						
↓ B ⁵ W	88	✓	0.1136	0.1204	0.1204						
ST72 A ⁵	89	950	0.1154	0.1289	0.1288						
ST86 A ³	90	910	0.1159	0.1167	0.1167						
↓ B ¹	91	965	0.1147	0.1208	0.1209						
↓ B ² W	92	945	0.1151	0.1171	0.1171						
ST99 A ⁹	93	950	0.1158	0.1165	0.1164						
↓ B ⁸	94	900	0.1141	0.1139	0.1139						
C ⁸	95	940	0.1148	0.1303	0.1302						
D ²¹	96	910	0.1148	0.1169	0.1163						
✓ 6054F D ²² W	97	840	0.1169	0.1161	0.1160						

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4-27-11
504

ST98 : 81292



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pH Logbook

Analyst: (D) Date: 4.27-11
Meter ID: Accumet AR60 Time: 13:48

Calibration						
Date:	Time:	Analyst:	Buffer	Source	Lot #	Temp.
4.27-11	13:48	(D)	2.00	Ricca	1006441	21.7
			4.00	Fisher	102493	21.8
			7.00	Ricca	1008595	21.7
			10.00	Fisher	107681	21.8
			12.00	Ricca	1008411	21.9
			Verification	Fisher	106355	21.6
Electrolyte Check (analysts initials):						

Sample pH						
Sample ID	1	2	3	4	5	Temperature
ICV	7.03	7.04				21.6
SU10 A'	6.59	6.59				19.8
↓ B'	6.61	6.61				19.6
CCU	7.04	7.04				21.6
CCV	7.03	7.04				21.7
SU12 D'	7.37	7.35	7.64 7.41			16.5
SU16 A'	7.68	7.95	7.72			16.0
↓ B'	8.17	8.19				
CCV	7.05	7.05				14.2
SU21 A'	6.86	6.86				12.7
B'	6.34	6.34				12.8
CCV C'	6.74	6.74				14.1
D'	6.25	6.25				14.7
E'	6.20	6.20				15.9
F'	5.90	5.90				21.9
CCV	7.05	7.05				
CCV						

15:20
KBT

4/27/11

4/27/11
18:30

KBT
4/27/11

KBT
4/27/11

Instrumentation
Drying Ovens: 12
Muffle Furnace: NA
Analytical Balance: 1123230597

LCS source: Cellulose, MP Biomedicals Lot# 6399J
50 mg/L TSS
 Loss on ignition (LOI) = TVSS (mg/L) calculated as:
 LOI (mg) = Dry wt(mg) - (min ash wt - tare wt) * 1000
 TVSS (mg/L) = LOI / mL sample * 1000
 if LOI < 1mg, TVSS = < 1mg / mL sample * 1000
 with "<" flag

SAMPLE ID	DISH #	filtered (mL)	TARE WT (grams)	DRY WT 104C (grams)				1000 DryWT (mg)	TSS (mg/L)	LOI (mg)	TVSS (mg/l)
				1	2	3	4				
BLANK		1000	0.1155	0.1151	STOP	STOP	-0.4	< 1			
LCS # 574-7		1000	0.1156	0.1644	STOP	STOP	48.8	48.8	97.6%		
ST73 A4		950	0.1152	0.1156	STOP	STOP	0.4	< 1.1			
ST73 B4		945	0.1155	0.1176	STOP	STOP	2.1	2.2			
ST73 C10		970	0.1149	0.1147	STOP	STOP	-0.2	< 1			
ST73 C11 dup		985	0.1158	0.1156	STOP	STOP	-0.2	< 1			

SAMPLE ID	DISH #	filtered (mL)	TARE WT (grams)	DRY WT 104C (grams)				1000 DryWT (mg)	TSS (mg/L)	LOI (mg)	TVSS (mg/l)
				1	2	3	4				
ST73 D4		950	0.1166	0.1170	STOP	STOP	0.3	< 1.1			
ST73 E4		950	0.1164	0.1164	STOP	STOP	0.0	< 1.1			
ST73 F4		940	0.1154	0.1158	STOP	STOP	0.4	< 1.1			
ST73 G4		930	0.1160	0.1158	STOP	STOP	-0.2	< 1.1			
SU02 A5		940	0.1155	0.1156	STOP	STOP	0.1	< 1.1			
SU02 B5		945	0.1153	0.1170	STOP	STOP	1.7	1.8			
SU02 C6		930	0.1146	0.1178	STOP	STOP	3.2	3.4			
SU02 C7 dup		950	0.1148	0.1180	STOP	STOP	3.1	3.3			

SAMPLE ID	DISH #	filtered (mL)	TARE WT (grams)	DRY WT 104C (grams)				1000 DryWT (mg)	TSS (mg/L)	LOI (mg)	TVSS (mg/l)
				1	2	3	4				
SU02 D5		970	0.1150	0.1148	STOP	STOP	-0.2	< 1			
SU02 E5		960	0.1145	0.1146	STOP	STOP	0.1	< 1			
SU02 F5		950	0.1153	0.1181	STOP	STOP	2.8	2.9			
SU02 G5		960	0.1156	0.1158	STOP	STOP	0.2	< 1			
SU21 A2		880	0.1161	0.1173	STOP	STOP	1.2	1.4			
SU21 B2		960	0.1150	0.1150	STOP	STOP	-0.1	< 1			
SU21 C2		960	0.1147	0.1145	STOP	STOP	-0.2	< 1			
SU21 D2		940	0.1143	0.1141	STOP	STOP	-0.2	< 1.1			
SU21 E2		915	0.1157	0.1158	STOP	STOP	0.1	< 1.1			
SU21 F2		975	0.1137	0.1140	STOP	STOP	0.3	< 1			



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TOTAL SUSPENDED (TSS) / TOTAL VOLATILE SUSPENDED SOLID (TVSS) BENCHSHEET

Analyst: <i>WAL</i>	Date/Time: <i>4-28-11 15:54</i>	Oven #:	Muffle Furnance: <i>M/A</i>	Balance: <i>1123230597</i>					
Dry at 104 °C (12-24 hrs) then combust at 550 °C for 30 min. Record Weights to 4 places	TSS (mg/L) calculated as: Final Dry Weight (mg) = (Min Dry Weight - Tare Weight) * 1000 TSS = (Final Dry Weight) / (mL Sample) * 1000 If dry wt < 1 mg/mL sample * 1000 use "c" flag	Loss on Ignition (LOI) = TVSS (mg / L) is calculated as: LOI (mg / L) = Dry Weight (mg) - ((Minimum Ash Weight - Tare Weight) * 1000) TVSS (mg / L) = LOI / mL sample * 1,000 If LOI < 1 mg, TVSS = < 1 mg / mL sample * 1000 use "c" flag							
	LCS (Cellulose from MP Biochemicals) Lott # <i>6399J</i>	0.0500 Gram to 1000 mL = 50 mg / L TSS							
Sample ID	Dish #	Filtered mL	Tare	Dry Weight 104°C (grams)	Dry Wt mg	TSS	Ash Weight 550°C	LOI - mg	TVSS mg/L
BLANK	<i>24201</i>	<i>1000</i>	<i>0.1155</i>	<i>0.1151</i>	<i>0.1151</i>				
<i>LCS#574-7</i>	<i>12</i>	<i>N</i>	<i>0.1156</i>	<i>0.1644</i>	<i>0.1644</i>				
<i>ST73 A4</i>	<i>3</i>	<i>950</i>	<i>0.1152</i>	<i>0.1156</i>	<i>0.1156</i>				
	<i>4</i>	<i>945</i>	<i>0.1155</i>	<i>0.1176</i>	<i>0.1176</i>				
	<i>5</i>	<i>970</i>	<i>0.1149</i>	<i>0.1147</i>	<i>0.1147</i>				
	<i>6</i>	<i>985</i>	<i>0.1158</i>	<i>0.1156</i>	<i>0.1156</i>				
	<i>7</i>	<i>950</i>	<i>0.1166</i>	<i>0.1170</i>	<i>0.1169</i>				
	<i>8</i>	<i>950</i>	<i>0.1164</i>	<i>0.1164</i>	<i>0.1164</i>				
	<i>9</i>	<i>940</i>	<i>0.1154</i>	<i>0.1158</i>	<i>0.1158</i>				
	<i>10</i>	<i>930</i>	<i>0.1160</i>	<i>0.1158</i>	<i>0.1159</i>				
<i>SU02 A5</i>	<i>11</i>	<i>940</i>	<i>0.1155</i>	<i>0.1156</i>	<i>0.1156</i>				
	<i>12</i>	<i>945</i>	<i>0.1153</i>	<i>0.1170</i>	<i>0.1171</i>				
	<i>13</i>	<i>950</i>	<i>0.1146</i>	<i>0.1178</i>	<i>0.1178</i>				
	<i>14</i>	<i>950</i>	<i>0.1148</i>	<i>0.1180</i>	<i>0.1179</i>				
	<i>15</i>	<i>970</i>	<i>0.1150</i>	<i>0.1148</i>	<i>0.1148</i>				
	<i>16</i>	<i>960</i>	<i>0.1145</i>	<i>0.1146</i>	<i>0.1146</i>				
	<i>17</i>	<i>950</i>	<i>0.1153</i>	<i>0.1181</i>	<i>0.1181</i>				
	<i>18</i>	<i>960</i>	<i>0.1156</i>	<i>0.1158</i>	<i>0.1158</i>				
<i>SU21 A2</i>	<i>19</i>	<i>880</i>	<i>0.1161</i>	<i>0.1173</i>	<i>0.1174</i>				
	<i>20</i>	<i>960</i>	<i>0.1150</i>	<i>0.1150</i>	<i>0.1149</i>				
	<i>21</i>	<i>960</i>	<i>0.1147</i>	<i>0.1145</i>	<i>0.1145</i>				
<i>6054F D2</i>	<i>22</i>	<i>940</i>	<i>0.1143</i>	<i>0.1141</i>	<i>0.1141</i>				
	<i>23</i>	<i>915</i>	<i>0.1157</i>	<i>0.1158</i>	<i>0.1158</i>				
	<i>24</i>	<i>975</i>	<i>0.1137</i>	<i>0.1140</i>	<i>0.1140</i>				

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
STOP : 012905

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Client: Floyd Snider

Project: POS-LL.4010 Lora Lake Parcel

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 Signature

May-16-2011


 Date

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Client: Floyd Snider

Project: POS-LL.4010 Lora Lake Parcel

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Signature 

May-16-2011
Date



Analytical Resources, Incorporated
Analytical Chemists and Consultants

May 27, 2011

Megan McCullough
Floyd-Snyder Inc.
601 Union Street, Suite 600
Seattle, WA 98101-2341

RE: Lora Lake Parcel, POS-LL 4010
ARI Jobs: SU53, SU73 & SU74

Dear Megan:

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. Dunning
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures

cc: eFile SU53

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Chain of Custody Documentation

ARI Job ID: SU53, SU73, SU74

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: **SUS3**
 Turn-around Requested: **std**
 ARI Client Company: **Floyd Snider**
 Phone: _____
 Client Contact: **Megan McCullough**
 Client Project Name: **Lora Lake Apts RI**
 Client Project #: **MS-LA 44010**
 Samplers: **L. Gramala/K Anderson**

Page: **1** of **1**
 Date: **4/28/11**
 Ice Present? **Y**
 No. of Coolers: **3**
 Cooler Temps: **5.6, 3.8, 5.2**

Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)



Sample ID	Date	Time	Matrix	No Containers	Analysis Requested				Notes/Comments			
					TPH-DX	TPH-G	BTK (801)	VOC (8260)		TSS (SM 2540D)	PH (150.1)	Dioma/Myron (1413)
MW-5042811	4/28/11	915	GW	16	X	X	X	X	X	X	X	See project * Diss Asst specific VOC LIST
MW15042811	4/28/11	1115	GW	12	X	X	X	X	X	X	X	
MW4042811	4/28/11	1300	GW	16	X	X	X	X	X	X	X	
MW17042811	4/28/11	1405	GW	12	X	X	X	X	X	X	X	
MW14042811	4/28/11	1530	GW	16	X	X	X	X	X	X	X	
MW16042811	4/28/11	1630	GW	12	X	X	X	X	X	X	X	
TB-042811	4/7/11	000	W	2	X	X	X	X	X	X	X	

Comments/Special Instructions: _____

Relinquished by: (Signature) _____
 Printed Name: **Kath Anderson**
 Company: **ARI**

Received by: (Signature) _____
 Printed Name: **Floyd Snider**
 Company: **ARI**

Date & Time: **4/28/11 1800**

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.

SUS3: 00000



Cooler Receipt Form

ARI Client: Floyd Snider
 COC No(s): _____
 Assigned ARI Job No: SU53 NA

Project Name: Loralake Apt RI
 Delivered by: Fed-Ex UPS Courier Mand Delivered Other: _____
 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)..... 5.6 3.2 5.2
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90941619
 Cooler Accepted by: AV Date: 4/28/11 Time: 1800

Complete custody forms and attach all shipping documents

Log-In Phase:


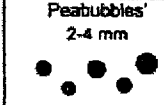
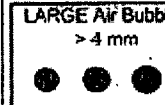
Was a temperature blank included in the cooler? YES NO
 What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other:
 Was sufficient ice used (if appropriate)? NA YES NO
 Were all bottles sealed in individual plastic bags? YES NO
 Did all bottles arrive in good condition (unbroken)? YES NO
 Were all bottle labels complete and legible? YES NO
 Did the number of containers listed on COC match with the number of containers received? YES NO
 Did all bottle labels and tags agree with custody papers? YES NO
 Were all bottles used correct for the requested analyses? YES NO
 Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO
 Were all VOC vials free of air bubbles? NA YES NO
 Was sufficient amount of sample sent in each bottle? YES NO
 Date VOC Trip Blank was made at ARI..... NA 4/7/11
 Was Sample Split by ARI : NA YES Date/Time: _____ Equipment: _____ Split by: _____
 Samples Logged by: MM Date: 4/29/11 Time: 0900

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

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC
MW5042811	MW5042811		
MW04042811	MW4042811		

Additional Notes, Discrepancies, & Resolutions: for 13 containers were sent MW15, MW14, MW16 each; VOC reads reads 12.

By: _____ Date: _____

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

PRESERVATION VERIFICATION 04/29/11

Page 1 of 1



ARI Job No: SU53

PC: Sue D.
VTSR: 04/28/11

Inquiry Number: NONE
Analysis Requested: 04/29/11
Contact: McCullough, Megan
Client: Floyd Snider
Logged by: MM
Sample Set Used: Yes-482
Validatable Package:
Deliverables:

Project #: POS-LLA
Project: Lora Lake Apts RI
Sample Site:
SDG No:
Analytical Protocol: In-house

LOGNUM ARI ID	CLIENT ID	CN >12	WAD >12	NH3 <2	COD <2	FOG <2	MET <2	PHEN <2	PHOS <2	TKN <2	NO23 <2	TOC <2	S2 >9	AK102 <2	Fe2+ <2	DMET FLT	DOC FLT	PARAMETER	ADJUSTED TO	LOT NUMBER	AMOUNT ADDED	DATE/BY
11-9621 SU53A	MW5042811						DIS NP									N						
11-9622 SU53B	MW15042811						DIS NP									N						
11-9623 SU53C	MW4042811						DIS NP									N						
11-9624 SU53D	MW17042811																					
11-9625 SU53E	MW14042811						DIS NP									N						
11-9626 SU53F	MW16042811																					

NP - Not Preserved

Filtered + Preserved
In Lab (HNO₃ → I6167)
MH 5/02/11

SU53 : 00005

Checked By MM Date 4/29/11

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: **SUT3** Turn-around Requested: **Standard**

ARI Client Company: **Floyd/Snyder** Phone: **206-292-2078**

Client Contact: **Megan McCullough**

Client Project Name: **Lova Lake Apts RI**

Client Project #: **POS-LLA.4010** Samplers: **Erin Murray/Tucker**

Page: **1** of **1**

Date: **4/29/11** Ice Present? **Y**

No. of Coolers: **3** Cooler Temps: **31.4, 4.7, 3.2**

Analysis Requested

Analysis Requested	CPH/PCP (8270D-SIM) (8041)	NMTPH-DX	NMTPH-GX	BTEX (8021) (2008)	VOCs* (8260C-SIM) (8260C)	TSS(SM) (2590D)	PH (150.1)	Dioxin (1613)	Notes/Comments
MW-01-042911	X	X	X	X	X	X	X	X	* See project specific VOC list.
MW-01-042911-D	X	X	X	X	X	X	X	X	
TB-042911					X				

Sample ID	Date	Time	Matrix	No. Containers	Relinquished by: (Signature)	Received by: (Signature)
MW-01-042911	4/29/11	0955	W	14	<i>[Signature]</i>	<i>[Signature]</i>
MW-01-042911-D	4/29/11	1000	W	14	<i>[Signature]</i>	<i>[Signature]</i>
TB-042911	4/29/11	1030	W	2	<i>[Signature]</i>	<i>[Signature]</i>

Comments/Special Instructions

Relinquished by: **Erin Murray** (Signature) **Erin Murray** (Printed Name) **ARI** (Company)

Received by: **A. Volgardsen** (Signature) **A. Volgardsen** (Printed Name) **ARI** (Company)

Date & Time: **4/29/11 1625**

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.



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

00000535



Cooler Receipt Form

ARI Client: Floyd Snider

Project Name: Lora Lake Apts RI

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: SU73

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 3.9 4.7 3.2

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90941619

Cooler Accepted by: AV Date: 4/29/11 Time: 1625

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI..... NA 4/26/11

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

Samples Logged by: _____ Date: _____ Time: _____

**** 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:
Trip Blank on Lora Lakes Apt RI Job MW-01-042911-D = sm in 10/6.

By: AV Date: 4/29/11

Small Air Bubbles → 2mm	Peabubbles 2-4 mm	LARGE Air Bubbles → 4 mm	Small → "sm"
			Peabubbles → "pb"
			Large → "lg"
			Headspace → "hs"

PRESERVATION VERIFICATION 04/29/11

Page 1 of 1

Inquiry Number: NONE
 Analysis Requested: 05/02/11
 Contact: McCullough, Megan
 Client: Floyd Snider
 Logged by: JM
 Sample Set Used: Yes-481
 Validatable Package: Yes
 Deliverables:



ARI Job No: **SU73**

PC: Sue D.
 VTSR: 04/29/11

Project #: POS-LIA.4010
 Project: Lora Lake Apts RI
 Sample Site:
 SDG No:
 Analytical Protocol: In-house

LOGNUM ARI ID	CLIENT ID	CN >12	WAD >12	NH3 <2	COD <2	FOG <2	MET <2	PHEN <2	PHOS <2	TKN <2	NO23 <2	TOC <2	S2 >9	AK102 <2	Fe2+ <2	DMET DOC FLT FLT	PARAMETER	ADJUSTED TO	LOT NUMBER	AMOUNT ADDED	DATE/BY
11-9762 SU73A	MW-01-042911						DTS b/s									Y					
11-9763 SU73B	MW-01-042911-D															Y					

SU53 : 00008

Checked By JM Date 4/29/11

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: SUPY Turn-around Requested: STANDARD Page: 1 of 1
 ARI Client Company: Floyd/Snyder Phone: 206-292-2078 Date: 04/29/11
 Client Contact: Megan McCullough Cooler Temps: 5X
 Client Project Name: Lora Lake Parcel

Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)



Sample ID	Date	Time	Matrix	No Containers	Analysis Requested			Notes/Comments	
					BTEX (8024)	DISS. PH/TS (200.8)	VOCs (8260C - SIM + 755 (SM) 2540D)		
B312-042911	4/29/11	1230	W	16	X	X	X	X	* See project specific VOC list. Dioxin (163) PH(157.1)
B310-042911	4/29/11	1345	W	16	X	X	X	X	
B311-042911	4/29/11	1455	W	16	X	X	X	X	

Client Project #: 4010 Samplers: SMMurray/Tucker Evans
 No. of Coolers: (2270D-SIM) 8041 NWTPH-DX
 Ice Present? 5X NW-TPH-
 Cooler Temps: 5X

Comments/Special Instructions: Relinquished by: [Signature] Date & Time: 4/29/11 1625
Received by: [Signature] Date & Time: 4/29/11 1625
 Printed Name: Swin Murray Company: Floyd/Snyder
 Printed Name: A. Valgardson Company: ARP

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.

5053:00000



Cooler Receipt Form

ARI Client: Floyd Shider

Project Name: Lora Lake Parcel

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: SU74

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 3.9 4.7 3.2

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90941619

Cooler Accepted by: AV Date: 4/29/11 Time: 1625

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI..... NA

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

Samples Logged by: JM Date: 4/27/11 Time: 1734

**** 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:
Trip Blank on Lora Lakes Apt RI Job

By: AV Date: 4/29/11



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

PRESERVATION VERIFICATION 04/29/11

Page 1 of 1



ARI Job No: **SU74**

PC: Sue D.
VTSR: 04/29/11

Inquiry Number: NONE
Analysis Requested: 05/02/11
Contact: McCullough, Megan
Client: Floyd Snider
Logged by: JM
Sample Set Used: Yes-481
Validatable Package: Yes
Deliverables:

Project #: POS-LL.4010
Project: Lora Lake Parcel
Sample Site:
SDG No:
Analytical Protocol: In-house

LOGNUM ARI ID	CLIENT ID	CN >12	WAD >12	NH3 <2	COD <2	FOG <2	MET <2	PHEN <2	PHOS <2	TKN <2	NO23 <2	TOC <2	S2 >9	AK102 <2	Fe2+ <2	DMET DOC FLT FLT	PARAMETER	ADJUSTED TO	LOT NUMBER	AMOUNT ADDED	DATE/BY
11-9772 SU74A	B312-042911						DJS									Y					
11-9773 SU74B	B310-042911						DJS									Y					
11-9774 SU74C	B311-042911						DJS									Y					

SU53 : 00011

Checked By JM Date 4/29/11

Case Narrative, Data Qualifiers, Control Limits

ARI Job ID: SU53, SU73, SU74

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Case Narrative

Client: Floyd Snider
Project: Lora Lake Parcel, POS-LL 4010
ARI Job No.: SU53, SU73, SU74

Sample receipt

Analytical Resources, Inc. (ARI) accepted six groundwater samples and one trip blank on April 28, 2011 under ARI job SU53. The cooler temperatures measured by IR thermometer following ARI SOP were between 3.8 and 5.6°C.

Five additional samples and one trip blank were accepted on April 29, 2011 under ARI jobs SU73 and SU74. The cooler temperatures measured by IR thermometer following ARI SOP were between 3.2 and 4.7°C. For details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

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

Volatiles by SW8260-SIM

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

Initial and continuing calibrations were within method requirements for requested compounds. Internal standard areas were within limits.

The surrogate percent recoveries were within limits.

The method blanks were clean at the reporting limit. The LCS and LCSD percent recoveries were within control limits, with an allowed outlier for cis-1,2-Dichloroethene in the 05/03/11 LCSD at 79.4% (limit 80%).

The batch matrix spike and matrix spike duplicate percent recoveries were within advisory control limits for sample **MW06-042611** (ARI Job ST98). A copy of the summary form is included here.

SIM PAHs by SW8270D

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

The 'total' benzofluoranthenes result includes the response of the b, k and j isomers.

Pentachlorophenol by SW8041

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

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

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

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



NWTPH-Gx and BETX by SW8021

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

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

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

The batch matrix spike and matrix spike duplicate (run under ARI Job ST98) had percent recoveries were within advisory control limits. A copy of the summary form is included in this report.

Total Arsenic and Lead by EPA 200.8

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

Calibrations were within control limits.

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

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 recoveries were within control limits.

The matrix replicate RSDs were within control limits.

Sample ID Cross Reference Report



ARI Job No: SU53
Client: Floyd Snider
Project Event: POS-LLA
Project Name: Lora Lake Apts RI

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. MW5042811	SU53A	11-9621	Groundwater	04/28/11 09:15	04/28/11 18:00
2. MW15042811	SU53B	11-9622	Groundwater	04/28/11 11:15	04/28/11 18:00
3. MW4042811	SU53C	11-9623	Groundwater	04/28/11 13:30	04/28/11 18:00
4. MW17042811	SU53D	11-9624	Groundwater	04/28/11 14:05	04/28/11 18:00
5. MW14042811	SU53E	11-9625	Groundwater	04/28/11 15:10	04/28/11 18:00
6. MW16042811	SU53F	11-9626	Groundwater	04/28/11 16:30	04/28/11 18:00
7. TB-042811	SU53G	11-9627	Water	04/28/11	04/28/11 18:00

Printed 04/29/11

Sample ID Cross Reference Report



ARI Job No: SU73
Client: Floyd Snider
Project Event: POS-LLA.4010
Project Name: Lora Lake Apts RI

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. MW-01-042911	SU73A	11-9762	Water	04/29/11 09:55	04/29/11 16:24
2. MW-01-042911-D	SU73B	11-9763	Water	04/29/11 10:00	04/29/11 16:24
3. TB-042911	SU73C	11-9764	Water	04/29/11	04/29/11 16:24

Printed 04/29/11

Sample ID Cross Reference Report



ARI Job No: SU74
Client: Floyd Snider
Project Event: POS-LL.4010
Project Name: Lora Lake Parcel

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. B312-042911	SU74A	11-9772	Water	04/29/11 12:30	04/29/11 16:25
2. B310-042911	SU74B	11-9773	Water	04/29/11 13:45	04/29/11 16:25
3. B311-042911	SU74C	11-9774	Water	04/29/11 14:55	04/29/11 16:25

Printed 04/29/11



Data Reporting Qualifiers

Effective 2/14/2011

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.
- EMPC** Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria" (Dioxin/Furan analysis only)
- 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
- X** Analyte signal includes interference from polychlorinated diphenyl ethers. (Dioxin/Furan analysis only)
- Z** Analyte signal includes interference from the sample matrix or perfluorokerosene ions. (Dioxin/Furan analysis only)



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	1824-2	ABN	100/150	MEOH	07/22/11
B	1834-6	SIM PNA	15/75	ACETONE	10/05/11
C	NA	SIM ABN	25/37.5	MEOH	03/08/11
D	1795-4	LOW PCB	0.2	ACETONE	12/16/11
E	1771-3	HERB	62.5	MEOH	10/06/11
F	1791-3	PCP	12.5	ACETONE	12/09/11
G	1824-1	d8-DIOXANE	100	MEOH	08/14/11
H	1847-2	OP-PEST	25	ACETONE	03/23/12
I	1835-1	LOW S. PNA	1.5	ACETONE	10/05/11
J	1787-2	TBT-PORE	0.125	MECL2	11/27/11
K	1795-2	MED PCB	20	ACETONE	12/16/11
L	1785-4	TBT	2.5	MECL2	11/27/11
M	1767-1	EPH	1500	MECL2	06/02/11
N	1795-3	PCB	2	ACETONE	12/16/11
O	1821-3	TPH	450	MECL2	09/07/11
P	1813-2	HCID	2250	MECL2	08/05/11
Q	NA	EDB	1	MEOH	NA
R	1757-3	RESIN ACID	250	ACETONE	08/14/11
S*	NA	PBDE	.25	MEOH	NA
T	1768-2	ALKYL PNA	10	MEOH	07/22/11
U	NA	CONGENER	2.5	ACETONE	NA
V	1791-4	LOW PCP	1.25	ACETONE	12/09/11
*reverified solution					

LCS SOLUTIONS

LABL SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
1	1837-2	PCB 1660	20	ACETONE 01/01/12
2#	NA	BCOC PEST	10	ACETONE NA
3	1793-3	PEST	01/02/10	ACETONE 12/15/11
4	1806-2	LOW PEST	.1/.2/1	ACETONE 12/15/11
5	1779-1	EPH	1500	MECL2 11/11/11
6	1791-5	PCP	12.5/125	ACETONE 12/10/11
7	1834-4	ABN	100	MEOH 08/21/11
8	1785-3	TBT	2.5	MECL2 11/27/11
9	1786-3	PORE TBT	.125/.25	MECL2 11/27/11
10	1790-1	ABN ACID	100/200	MEOH 06/07/11
11	1777-2	TPHD	15000	ACETONE 11/01/11
12	1790-2	ABN BASE	200	MEOH 06/07/11
13	1838-4	LOW PCB	2	ACETONE 01/31/12
14	1822-2	LOW ABN ACID	10/20	MEOH 06/07/11
15	1814-2	SIM PNA	15/75	MEOH 01/04/12
16	1834-5	1,4-DIOXANE	100	MEOH 08/25/11
17	1772-3	1248 PCB	10	ACETONE 05/01/11
18	1814-3	LOW SIM PNA	1.5	ACETONE 01/04/12
19	1815-2	AK103	7500	ACETONE 06/02/11
20	1843-3	PNA	100	ACETONE 08/14/11
21	1844-3	SKY/BHT	100	MEOH 09/24/11
22	1781-1	HERB	05 to 4000	MEOH 04/15/11
23	1822-3	LW ABN BASE	20	MEOH 06/07/11
24	1822-4	LOW ABN	10	ACETONE 10/01/11
25#	NA	DIPHENYL	100	MEOH NA
26	1823-1	OP-PEST	25	MEOH 07/01/11
27	NA	STEROLS	200	MEOH NA
28#	1807-1	ADD. PEST	2	ACETONE 08/31/11
29#	NA	DECANES	100	MEOH NA

LCS SOLUTIONS

30	NA	EDB/DBCP	0.2	MEOH	NA
31	1835-2	TERPINEOL	100	MEOH	09/02/11
32	NA	GUAIACOL	50-200	ACETONE	NA
33	NA	RETENE	100	MEOH	NA
34	1842-1	CONGENERS	0.5	ACETONE	03/14/12
35	NA	ALKYL PNA A	10	MEOH	NA
36	NA	ALKYL PNA B	10	MEOH	NA
37	1773-1	CAR/PERY	100	ACETONE	10/14/11
38	1846-2	ABN ACID	200-450	MEOH	09/25/11
50	1757-4	FULL RESIN	250	ACETONE	08/14/11
51	1772-1	DDTS	0.01	ACETONE	04/24/11
52	NA	1232 PCB	20	ACETONE	NA
53	1780-1	DALAPON	50	MEOH	05/07/11
54	1753-1	T-CHLORDANE	10	ACETONE	07/21/11
55	1753-2	TOXAPHENE	50	ACETONE	07/21/11
56	1846-3	ABN BASE	50-200	MEOH	09/25/11
		#=PROJECT SPECIFIC SOLUTION			
		*=REVERIFIED SOLUTION			



Spike Recovery Control Limits for SIM VOA EPA Method SW-846-8260C ^(1,2) Effective 8/30/2010	
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
Purge Volume:	10 mL
LCS Spike Recovery ⁽³⁾	
Vinyl Chloride	76 - 120
1,1-Dichloroethene	80 - 120
1,2-Dichloroethane	80 - 128
<i>cis</i> -1,2-Dichloroethene	80 - 120
<i>trans</i> -1,2-Dichloroethene	80 - 120
Trichloroethene	80 - 120
Benzene	80 - 120
Tetrachloroethene	80 - 122
1,1,2,2-Tetrachloroethane	80 - 128
Method Blank/LCS Surrogate Recovery	
d4-1,2-Dichloroethane	78 - 126
d8-Toluene	80 - 120
Sample Surrogate Recovery	
d4-1,2-Dichloroethane	80 - 129
d8-Toluene	80 - 120

(1) Control limits calculated using historic data collected from 1/1/10 to 8/23/10

(2) Highlighted control limits (**bold font**) adjusted from the calculated values as follows:

a) ARI does not use control limits < 10

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) analytes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.



**Spike Recovery Control Limits for Polycyclic Aromatic Hydrocarbons
Selected Ion Monitoring (SIM) EPA Method SW-846-8270D-Modified
Low Level Aqueous Samples^(1,7)
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 Volume / Final Volume	500 mL to 0.5 mL	
	Control Limits	ME Limits ⁽²⁾
LCS Spike Recovery ⁽⁶⁾		
Napthalene	41 - 101	31 - 111
2-Methylnapthalene	47 - 100	39 - 103
1-Methylnapthalene	30 - 160 ⁽³⁾	30 - 160 ⁽³⁾
Acenaphthylene	35 - 100	25 - 104
Acenaphthene	43 - 104	33 - 114
Dibenzofuran	37 - 100	27 - 108
Fluorene	51 - 103	42 - 112
Phenanthrene	55 - 109	46 - 118
Anthracene	30 - 101	18 - 113
Fluoranthene	49 - 123	37 - 135
Pyrene	48 - 120	36 - 132
Benz(a)anthracene	43 - 113	31 - 125
Chrysene	59 - 112	50 - 121
Benzofluoranthene(s) (Total)	30 - 160 ⁽⁸⁾	30 - 160 ⁽⁸⁾
Benzo(a)pyrene	10 - 100	10 - 109
Indeno(1,2,3-cd)pyrene	43 - 112	32 - 124
Dibenzo(a,h)anthracene	42 - 114	30 - 126
Benzo(g,h,i)perylene	31 - 118	17 - 133
MB / LCS Surrogate Recovery		
d10-2-Methylnaphthalene	42 - 100	(4)
d14-Dibenzo(a,h)anthracene	40 - 125	(4)
Sample Surrogate Recovery		
d10-2-Methylnaphthalene	31 - 109	(4)
d14-Dibenzo(a,h)anthracene	10 - 133	(4)

(1) ARI's Control limits calculated using all available spike recovery data from 1/1/08 through 12/1/08.

(2) **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 one marginal exceedance is acceptable. Two or more marginal exceedances require corrective action.

(3) 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.

(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) 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) 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.

(8) 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>

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

(1) ARI's Control limits calculated using all available spike recovery data from 1/1/08 through 12/1/08.

(2) Highlighted control limits (**bold font**) adjusted to demonstrate that ARI does not use control limits < 10.

(3) Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.



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

Effective 10/4/10

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 ⁽³⁾	Soil ⁽⁴⁾	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 ⁽⁵⁾				
Diesel	-	60 - 111	64 - 116	75 - 125
Diesel with Acid & Silica Clean-up	-	49 - 107	59 - 108	(6)
Diesel with Silica Clean-up		49 - 107	59 - 108	75 - 125
Method Blank/LCS Surrogate Recovery				
o-Terphenyl	-	56 - 130	64 - 134	60 - 120
o-Terphenyl with Acid & Silica Clean-up	-	53 - 123	59 - 134	(6)
o-Terphenyl Silica Clean-up		53 - 123	59 - 134	60 - 120
Sample Surrogate Recovery				
o-Terphenyl	50 - 150	52 - 134	52 - 130	50 - 150
o-Terphenyl with Acid & Silica Clean-up	-	49 - 118	43 - 137	(6)
o-Terphenyl with Silica Clean-up	-	49 - 118	43 - 137	50 - 150

1. Control Limits calculated using all data generated 1/1/10 through 9/1/10
2. Method specified, non-prescriptive limits. The NWTPH-HCID Method does not include LCS or MS analyses.
3. Separatory Funnel Extraction – EPA Method 3510C
4. Microwave Extraction – EPA Method 3546
5. 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.
6. 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) analytes. 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		
	ARI's Control Limits	
Sample Matrix:	Water	Soil / Sediment
Matrix Spike Recoveries	% Recovery	% Recovery
Ammonia	75 - 125	75 - 125
Bromide	75 - 125	75 - 125
Chloride	75 - 125	75 - 125
Cyanide	75 - 125	75 - 125
Ferrous Iron	75 - 125	75 - 125
Fluoride	75 - 125	75 - 125
Formaldehyde	75 - 125	75 - 125
Hexane Extractable Material	-- - --	78 - 114
Hexavalent Chromium	75 - 125	75 - 125
Nitrate/Nitrite	75 - 125	75 - 125
Oil and Grease	75 - 125	75 - 125
Phenol	75 - 125	75 - 125
Phosphorous	75 - 125	75 - 125
Sulfate	75 - 125	75 - 125
Sulfide	75 - 125	75 - 125
Total Kjeldahl Nitrogen	75 - 125	75 - 125
Total Organic Carbon	75 - 125	75 - 125
Duplicate RPDs		
Acidity	±20%	±20%
Alkalinity	±20%	±20%
BOD	±20%	±20%
Cation Exchange	±20%	±20%
COD	±20%	±20%
Conductivity	±20%	±20%
Salinity	±20%	±20%
Solids	±20%	±20%
Turbidity	±20%	±20%

**SIM Volatile Analysis
Report and Summary QC Forms**

ARI Job ID: SU53, SU73, SU74

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW5042811

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SAMPLE

Lab Sample ID: SU53A


QC Report No: SU53-Floyd Snider

LIMS ID: 11-9621

Project: Lora Lake Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: 

Date Sampled: 04/28/11

Reported: 05/05/11

Date Received: 04/28/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/04/11 14:55

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	105%
d8-Toluene	97.9%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW15042811

Page 1 of 1

SAMPLE

Lab Sample ID: SU53B


QC Report No: SU53-Floyd Snider

LIMS ID: 11-9622

Project: Lora Lake Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: 

Date Sampled: 04/28/11

Reported: 05/05/11

Date Received: 04/28/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/03/11 20:39

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	99.0%
d8-Toluene	96.4%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW4042811

Page 1 of 1

SAMPLE

Lab Sample ID: SU53C


QC Report No: SU53-Floyd Snider

LIMS ID: 11-9623

Project: Lora Lake Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: 

Date Sampled: 04/28/11

Reported: 05/05/11

Date Received: 04/28/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/03/11 21:04

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.1%
d8-Toluene	95.1%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW17042811

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SAMPLE

Lab Sample ID: SU53D

QC Report No: SU53-Floyd Snider

LIMS ID: 11-9624

Project: Lora Lake Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: *B*

Date Sampled: 04/28/11

Reported: 05/05/11

Date Received: 04/28/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/03/11 21:30

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	105%
d8-Toluene	95.9%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW14042811

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SAMPLE

Lab Sample ID: SU53E

QC Report No: SU53-Floyd Snider

LIMS ID: 11-9625

Project: Lora Lake Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: *B*

Date Sampled: 04/28/11

Reported: 05/05/11

Date Received: 04/28/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/03/11 21:56

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	101%
d8-Toluene	95.8%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW16042811

Page 1 of 1

SAMPLE

Lab Sample ID: SU53F


QC Report No: SU53-Floyd Snider

LIMS ID: 11-9626

Project: Lora Lake Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: 

Date Sampled: 04/28/11

Reported: 05/05/11

Date Received: 04/28/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/04/11 16:09

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	94.7%
d8-Toluene	96.8%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: TB-042811
 Page 1 of 1 **Trip Blank**

Lab Sample ID: SU53G


QC Report No: SU53-Floyd Snider

LIMS ID: 11-9627

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA

Data Release Authorized: 

Date Sampled: 04/28/11

Reported: 05/05/11

Date Received: 04/28/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/03/11 14:40

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	99.0%
d8-Toluene	99.6%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW-01-042911

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SAMPLE

Lab Sample ID: SU73A


QC Report No: SU73-Floyd Snider

LIMS ID: 11-9762

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA.4010

Data Release Authorized: 

Date Sampled: 04/29/11

Reported: 05/05/11

Date Received: 04/29/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/04/11 16:35

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	0.028	
156-59-2	cis-1,2-Dichloroethene	0.020	0.16	
156-60-5	trans-1,2-Dichloroethene	0.020	0.041	
79-01-6	Trichloroethene	0.020	0.12	
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	97.4%
d8-Toluene	98.8%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW-01-042911-D

Page 1 of 1

SAMPLE

Lab Sample ID: SU73B

QC Report No: SU73-Floyd Snider

LIMS ID: 11-9763

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA.4010

Data Release Authorized: *AS*

Date Sampled: 04/29/11

Reported: 05/05/11

Date Received: 04/29/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/04/11 17:01

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	0.026	
156-59-2	cis-1,2-Dichloroethene	0.020	0.16	
156-60-5	trans-1,2-Dichloroethene	0.020	0.042	
79-01-6	Trichloroethene	0.020	0.12	
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	99.2%
d8-Toluene	94.9%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: TB-042911

Page 1 of 1

SAMPLE

Lab Sample ID: SU73C


QC Report No: SU73-Floyd Snider

LIMS ID: 11-9764

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA.4010

Data Release Authorized: 

Date Sampled: 04/29/11

Reported: 05/05/11

Date Received: 04/29/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/04/11 13:12

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	97.6%
d8-Toluene	99.2%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: B312-042911
 Page 1 of 1 **SAMPLE**

Lab Sample ID: SU74A

QC Report No: SU74-Floyd Snider

LIMS ID: 11-9772

Project: Lora Lake Parcel

Matrix: Water

POS-LL.4010

Data Release Authorized: *[Signature]*

Date Sampled: 04/29/11

Reported: 05/05/11

Date Received: 04/29/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/04/11 17:26

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	90.3%
d8-Toluene	96.0%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: B310-042911
 Page 1 of 1 **SAMPLE**

Lab Sample ID: SU74B


QC Report No: SU74-Floyd Snider

LIMS ID: 11-9773

Project: Lora Lake Parcel

Matrix: Water

POS-LL.4010

Data Release Authorized: 

Date Sampled: 04/29/11

Reported: 05/05/11

Date Received: 04/29/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/04/11 17:52

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	92.8%
d8-Toluene	97.2%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: B311-042911

Page 1 of 1

SAMPLE

Lab Sample ID: SU74C

QC Report No: SU74-Floyd Snider

LIMS ID: 11-9774

Project: Lora Lake Parcel

Matrix: Water

POS-LL.4010

Data Release Authorized: *[Signature]*

Date Sampled: 04/29/11

Reported: 05/05/11

Date Received: 04/29/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/04/11 18:18

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	97.4%
d8-Toluene	97.0%

SW8260-SIM SURROGATE RECOVERY SUMMARY

Matrix: Groundwater

QC Report No: SU53-Floyd Snider
Project: Lora Lake Apts RI
POS-LLA

<u>Client ID</u>	<u>DCE</u>	<u>TOL</u>	<u>TOT OUT</u>
MB-050411	104%	97.4%	0
LCS-050411	87.8%	99.6%	0
LCSD-050411	84.8%	98.4%	0
MW5042811	105%	97.9%	0
MB-050311	90.8%	95.2%	0
LCS-050311	86.0%	98.7%	0
LCSD-050311	86.6%	99.7%	0
MW15042811	99.0%	96.4%	0
MW4042811	98.1%	95.1%	0
MW17042811	105%	95.9%	0
MW14042811	101%	95.8%	0
MW16042811	94.7%	96.8%	0
TB-042811	99.0%	99.6%	0

LCS/MB LIMITS QC LIMITS

(DCE) = d4-1,2-Dichloroethane (78-126) (80-129)
(TOL) = d8-Toluene (80-120) (80-120)

Prep Method: SW5030
Log Number Range: 11-9621 to 11-9627

SW8260-SIM SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SU73-Floyd Snider
Project: Lora Lake Apts RI
POS-LLA.4010

<u>Client ID</u>	<u>DCE</u>	<u>TOL</u>	<u>TOT OUT</u>
MB-050411	104%	97.4%	0
LCS-050411	87.8%	99.6%	0
LCSD-050411	84.8%	98.4%	0
MW-01-042911	97.4%	98.8%	0
MW-01-042911-D	99.2%	94.9%	0
TB-042911	97.6%	99.2%	0

LCS/MB LIMITS QC LIMITS

(DCE) = d4-1,2-Dichloroethane (78-126) (80-129)
(TOL) = d8-Toluene (80-120) (80-120)

Prep Method: SW5030
Log Number Range: 11-9762 to 11-9764

SW8260-SIM SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SU74-Floyd Snider
Project: Lora Lake Parcel
POS-LL.4010

<u>Client ID</u>	<u>DCE</u>	<u>TOL</u>	<u>TOT OUT</u>
MB-050411	104%	97.4%	0
LCS-050411	87.8%	99.6%	0
LCSD-050411	84.8%	98.4%	0
B312-042911	90.3%	96.0%	0
B310-042911	92.8%	97.2%	0
B311-042911	97.4%	97.0%	0

LCS/MB LIMITS QC LIMITS

(DCE) = d4-1,2-Dichloroethane (78-126) (80-129)
(TOL) = d8-Toluene (80-120) (80-120)

Prep Method: SW5030
Log Number Range: 11-9772 to 11-9774

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW06-042611

Page 1 of 1

MATRIX SPIKE

Lab Sample ID: ST98D

QC Report No: ST98-Floyd Snider

LIMS ID: 11-9412

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA T.4010

Data Release Authorized: *AS*

Date Sampled: 04/26/11

Reported: 05/05/11

Date Received: 04/26/11

Instrument/Analyst MS: NT7/PKC

Sample Amount MS: 10.0 mL

MSD: NT7/PKC

MSD: 10.0 mL

Date Analyzed MS: 05/03/11 16:48

Purge Volume MS: 10.0 mL

MSD: 05/03/11 17:14

MSD: 10.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
1,2-Dichloroethane	< 0.020 U	0.919	1.00	91.9%	0.868	1.00	86.8%	5.7%
cis-1,2-Dichloroethene	< 0.020 U	0.839	1.00	83.9%	0.822	1.00	82.2%	2.0%
trans-1,2-Dichloroethene	< 0.020 U	0.884	1.00	88.4%	0.869	1.00	86.9%	1.7%
Trichloroethene	< 0.020 U	0.956	1.00	95.6%	0.933	1.00	93.3%	2.4%
Tetrachloroethene	< 0.020 U	0.989	1.00	98.9%	0.933	1.00	93.3%	5.8%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: LCS-050311

Page 1 of 1

LAB CONTROL SAMPLE

Lab Sample ID: LCS-050311

QC Report No: SU53-Floyd Snider

LIMS ID: 11-9622

Project: Lora Lake Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: *AS*

Date Sampled: NA

Reported: 05/05/11

Date Received: NA

Instrument/Analyst LCS: NT7/PKC

Sample Amount LCS: 10.0 mL

LCSD: NT7/PKC

LCSD: 10.0 mL

Date Analyzed LCS: 05/03/11 12:06

Purge Volume LCS: 10.0 mL

LCSD: 05/03/11 12:32

LCSD: 10.0 mL

Analyte	LCS	Spike	LCS	LCSD	Spike	LCS	RPD
		Added-LCS	Recovery		Added-LCSD	Recovery	
1,2-Dichloroethane	0.948	1.00	94.8%	0.872	1.00	87.2%	8.4%
cis-1,2-Dichloroethene	0.838	1.00	83.8%	0.794	1.00	79.4%	5.4%
trans-1,2-Dichloroethene	0.908	1.00	90.8%	0.832	1.00	83.2%	8.7%
Trichloroethene	0.986	1.00	98.6%	0.896	1.00	89.6%	9.6%
Tetrachloroethene	0.850	1.00	85.0%	0.867	1.00	86.7%	2.0%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	86.0%	86.6%
d8-Toluene	98.7%	99.7%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: LCS-050411

Page 1 of 1

LAB CONTROL SAMPLE

Lab Sample ID: LCS-050411
 LIMS ID: 11-9621
 Matrix: Groundwater
 Data Release Authorized: *[Signature]*
 Reported: 05/05/11

QC Report No: SU53-Floyd Snider
 Project: Lora Lake Apts RI
 POS-LLA
 Date Sampled: NA
 Date Received: NA

Instrument/Analyst LCS: NT7/PKC
 LCSD: NT7/PKC
 Date Analyzed LCS: 05/04/11 11:21
 LCSD: 05/04/11 11:47

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

Analyte	LCS	Spike	LCS	LCS	Spike	LCS	RPD
		Added-LCS	Recovery		Added-LCS	Recovery	
1,2-Dichloroethane	1.17	1.00	117%	0.894	1.00	89.4%	26.7%
cis-1,2-Dichloroethene	1.08	1.00	108%	0.827	1.00	82.7%	26.5%
trans-1,2-Dichloroethene	1.15	1.00	115%	0.887	1.00	88.7%	25.8%
Trichloroethene	1.18	1.00	118%	0.947	1.00	94.7%	21.9%
Tetrachloroethene	1.16	1.00	116%	0.945	1.00	94.5%	20.4%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	87.8%	84.8%
d8-Toluene	99.6%	98.4%

4A
VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

MB0503

Lab Name: ANALYTICAL RESOURCES, INC
 ARI Job No: SU21
 Lab File ID: MB0503A
 Date Analyzed: 05/03/11
 Instrument ID: NT7

Client: FLOYD SNIDER
 Project: LORA LAKE APARTMENTS RI
 Lab Sample ID: MB0503
 Time Analyzed: 1323
 Heated Purge: (Y/N) N

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	-----	-----	-----	-----
01	LCS0503	LCS0503	LCS0503A	1206
02	LCS0503	LCS0503	LCS0503B	1232
03	TB-042611	ST98E	ST98E	1348
04	TB-042711	SU21G	SU21G	1414
05	TB-042811	SU53G	SU53G	1440
06	MW02-042611	ST98A	ST98A	1505
07	MW03-042611	ST98B	ST98B	1531
08	MW13-042611	ST98C	ST98C	1557
09	MW06-042611	ST98D	ST98D	1622
10	MW06-042611	ST98DMS	ST98DMS	1648
11	MW06-042611	ST98DMSD	ST98DMSD	1714
12	MW07-042711	SU21A	SU21A	1739
13	MW10-042711	SU21C	SU21C	1831
14	MW09-042711	SU21D	SU21D	1856
15	MW12-042711	SU21F	SU21F	1947
16	MW15042811	SU53B	SU53B	2039
17	MW4042811	SU53C	SU53C	2104
18	MW17042811	SU53D	SU53D	2130
19	MW14042811	SU53E	SU53E	2156
20	_____	_____	_____	_____
21	_____	_____	_____	_____
22	_____	_____	_____	_____
23	_____	_____	_____	_____
24	_____	_____	_____	_____
25	_____	_____	_____	_____
26	_____	_____	_____	_____
27	_____	_____	_____	_____
28	_____	_____	_____	_____
29	_____	_____	_____	_____
30	_____	_____	_____	_____

COMMENTS:

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MB-050311

Page 1 of 1

METHOD BLANK

Lab Sample ID: MB-050311

QC Report No: SU53-Floyd Snider

LIMS ID: 11-9622

Project: Lora Lake Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: *JS*

Date Sampled: NA

Reported: 05/05/11

Date Received: NA

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/03/11 13:23

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	90.8%
d8-Toluene	95.2%

4A
VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

MB0504

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU21

Project: LORA LAKE APARTMENTS RI

Lab File ID: MB0504

Lab Sample ID: MB0504

Date Analyzed: 05/04/11

Time Analyzed: 1213

Instrument ID: NT7

Heated Purge: (Y/N) N

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	LCS0504	LCS0504	LCS0504X	1121
02	LCS0504	LCS0504	LCS0504Y	1147
03	TB-042911	SU73C	SU73C	1312
04	MW11-042711	SU21B	SU21B2	1403
05	MW08-042711	SU21E	SU21E2	1429
06	MW5042811	SU53A	SU53A2	1455
07	MW16042811	SU53F	SU53F3	1609
08	MW-01-042911	SU73A	SU73A	1635
09	MW-01-042911	SU73B	SU73B	1701
10	B312-042911	SU74A	SU74A	1726
11	B310-042911	SU74B	SU74B	1752
12	B311-042911	SU74C	SU74C	1818
13				
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COMMENTS:

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MB-050411

Page 1 of 1

METHOD BLANK

Lab Sample ID: MB-050411


QC Report No: SU53-Floyd Snider

LIMS ID: 11-9621

Project: Lora Lake Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: 

Date Sampled: NA

Reported: 05/05/11

Date Received: NA

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/04/11 12:13

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	97.4%

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD SNIDER

Lab Code: ARI Case No.: LORA LAKE APARTMENTS RI SDG No.: SU21

Lab File ID: 0426001

BFB Injection Date: 04/26/11

Instrument ID: NT7

BFB Injection Time: 0607

GC Column: RTXVMS ID: 0.18 (mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.9
75	30.0 - 66.0% of mass 95	55.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.3 (0.4)1
174	50.0 - 101.0% of mass 95	63.8
175	4.0 - 9.0% of mass 174	4.7 (7.4)1
176	93.0 - 101.0% of mass 174	60.1 (94.2)1
177	5.0 - 9.0% of mass 176	4.3 (7.1)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	50	00500426	0426011	04/26/11	1130
02	100	01000426	0426012	04/26/11	1155
03	500	05000426	0426013	04/26/11	1221
04	1000	1000426	0426014	04/26/11	1247
05	2000	20000426	0426016	04/26/11	1337
06	4000	40000426	0426017	04/26/11	1403
07	ICV	ICV0426	0426018	04/26/11	1429
08	20	00200426	0426019	04/26/11	1500
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD SNIDER

Lab Code: ARI Case No.: LORA LAKE APARTMENTS RI SDG No.: SU21

Lab File ID: BFB0503 BFB Injection Date: 05/03/11

Instrument ID: NT7 BFB Injection Time: 1025

GC Column: RTXVMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.9
75	30.0 - 66.0% of mass 95	51.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 101.0% of mass 95	59.2
175	4.0 - 9.0% of mass 174	4.4 (7.4)1
176	93.0 - 101.0% of mass 174	57.1 (96.5)1
177	5.0 - 9.0% of mass 176	3.2 (5.6)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CC0503	CC0503	CC0503A	05/03/11	1129
02	LCS0503	LCS0503	LCS0503A	05/03/11	1206
03	LCS0503	LCS0503	LCS0503B	05/03/11	1232
04	MB0503	MB0503	MB0503A	05/03/11	1323
05	TB-042611	ST98E	ST98E	05/03/11	1348
06	TB-042711	SU21G	SU21G	05/03/11	1414
07	TB-042811	SU53G	SU53G	05/03/11	1440
08	MW02-042611	ST98A	ST98A	05/03/11	1505
09	MW03-042611	ST98B	ST98B	05/03/11	1531
10	MW13-042611	ST98C	ST98C	05/03/11	1557
11	MW06-042611	ST98D	ST98D	05/03/11	1622
12	MW06-042611 MS	ST98DMS	ST98DMS	05/03/11	1648
13	MW06-042611 MSD	ST98DMSD	ST98DMSD	05/03/11	1714
14	MW07-042711	SU21A	SU21A	05/03/11	1739
15	MW10-042711	SU21C	SU21C	05/03/11	1831
16	MW09-042711	SU21D	SU21D	05/03/11	1856
17	MW12-042711	SU21F	SU21F	05/03/11	1947
18	MW15042811	SU53B	SU53B	05/03/11	2039
19	MW4042811	SU53C	SU53C	05/03/11	2104
20	MW17042811	SU53D	SU53D	05/03/11	2130
21	MW14042811	SU53E	SU53E	05/03/11	2156
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD SNIDER

Lab Code: ARI Case No.: LORA LAKE APARTMENTS RI SDG No.: SU21

Lab File ID: BFB0504 BFB Injection Date: 05/04/11

Instrument ID: NT7 BFB Injection Time: 0918

GC Column: RTXVMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	26.2
75	30.0 - 66.0% of mass 95	53.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 101.0% of mass 95	62.6
175	4.0 - 9.0% of mass 174	5.0 (8.0)1
176	93.0 - 101.0% of mass 174	61.8 (98.7)1
177	5.0 - 9.0% of mass 176	3.6 (5.9)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CC0504	CC0504	CC0504B	05/04/11	1045
02	LCS0504	LCS0504	LCS0504X	05/04/11	1121
03	LCS0504	LCS0504	LCS0504Y	05/04/11	1147
04	MB0504	MB0504	MB0504	05/04/11	1213
05	TB-042911	SU73C	SU73C	05/04/11	1312
06	MW11-042711	SU21B	SU21B2	05/04/11	1403
07	MW08-042711	SU21E	SU21E2	05/04/11	1429
08	MW5042811	SU53A	SU53A2	05/04/11	1455
09	MW16042811	SU53F	SU53F3	05/04/11	1609
10	MW-01-042911	SU73A	SU73A	05/04/11	1635
11	MW-01-042911-D	SU73B	SU73B	05/04/11	1701
12	B312-042911	SU74A	SU74A	05/04/11	1726
13	B310-042911	SU74B	SU74B	05/04/11	1752
14	B311-042911	SU74C	SU74C	05/04/11	1818
15					
16					
17					
18					
19					
20					
21					
22					

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU21

Project: LORA LAKE APARTMENTS RI

Instrument ID: NT7

Calibration Date: 04/26/11

LAB FILE ID: RF20: 0426019

RF50: 0426011

RF100: 0426012

RF500: 0426013

RF1000: 0426014

COMPOUND	RF20	RF50	RF100	RF500	RF1000
Vinyl Chloride	1.072	1.110	1.234	1.281	1.136
1,1-Dichloroethene	0.842	0.928	1.000	1.047	0.878
cis-1,2-dichloroethene	0.750	0.995	1.083	1.158	0.998
Benzene	2.663	2.358	2.527	2.587	2.276
Trichloroethene	0.399	0.419	0.418	0.454	0.391
Tetrachloroethene	0.277	0.294	0.345	0.364	0.317
1,1,2,2-Tetrachloroethane	0.319	0.370	0.363	0.427	0.397
Trans-1,2-Dichloroethene	0.946	0.892	0.992	1.053	0.881
1,2-Dichloroethane	1.298	1.424	1.544	1.780	1.482
d4-1,2-Dichloroethane	0.874	0.934	0.949	0.942	0.893
d8-Toluene	1.238	1.284	1.259	1.277	1.285

FORM VI VOA

SU53: 00060

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU21

Project: LORA LAKE APARTMENTS RI

Instrument ID: NT7

Calibration Date: 04/26/11

LAB FILE ID: RF2000: 0426016 RF4000: 0426017

COMPOUND	TYPE	RF	CURVE OR R ²	AVE	%RSD
Vinyl Chloride	0.973	0.897	AVRG	1.100	12.3
1,1-Dichloroethene	0.749	0.684	AVRG	0.876	14.8
cis-1,2-dichloroethene	0.859	0.805	AVRG	0.950	15.8
Benzene	1.919	1.696	AVRG	2.289	15.7
Trichloroethene	0.340	0.323	AVRG	0.392	11.8
Tetrachloroethene	0.272	0.249	AVRG	0.302	13.7
1,1,2,2-Tetrachloroethane	0.339	0.321	AVRG	0.362	11.0
Trans-1,2-Dichloroethene	0.750	0.714	AVRG	0.890	13.8
1,2-Dichloroethane	1.256	1.185	AVRG	1.424	14.2
d4-1,2-Dichloroethane	0.869	0.847	AVRG	0.901	4.5
d8-Toluene	1.280	1.295	AVRG	1.274	1.5

<- Indicates value outside QC limits:
(%RSD < 20% or R² > 0.990)

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU21

Project: LORA LAKE APARTMENTS RI

Instrument ID: NT7

Cont. Calib. Date: 05/03/11

Init. Calib. Date: 04/26/11

Cont. Calib. Time: 1129

COMPOUND	CalAmt or ARF	CC Amt 1000	MIN RRF	CURVE TYPE	%D or Drift
Vinyl Chloride	1.100	0.991	0.010	AVRG	-9.9
1,1-Dichloroethene	0.875	0.749	0.010	AVRG	-14.4
cis-1,2-dichloroethene	0.950	0.773	0.010	AVRG	-18.6
Benzene	2.289	1.976	0.010	AVRG	-13.7
Trichloroethene	0.392	0.359	0.010	AVRG	-8.4
Tetrachloroethene	0.302	0.255	0.010	AVRG	-15.6
1,1,2,2-Tetrachloroethane	0.362	0.340	0.300	AVRG	-6.1
Trans-1,2-Dichloroethene	0.890	0.771	0.010	AVRG	-13.4
1,2-Dichloroethane	1.424	1.259	0.010	AVRG	-11.6
d4-1,2-Dichloroethane	0.901	0.784	0.010	AVRG	-13.0
d8-Toluene	1.274	1.302	0.010	AVRG	2.2

<- Exceeds QC limit of 20% D

* RF less than minimum RF

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU21

Project: LORA LAKE APARTMENTS RI

Instrument ID: NT7

Cont. Calib. Date: 05/04/11

Init. Calib. Date: 04/26/11

Cont. Calib. Time: 1045

COMPOUND	CalAmt or ARF	CC Amt 1000	MIN RRF	CURVE TYPE	%D or Drift
Vinyl Chloride	1.100	1.132	0.010	AVRG	2.9
1,1-Dichloroethene	0.875	0.896	0.010	AVRG	2.4
cis-1,2-dichloroethene	0.950	0.904	0.010	AVRG	-4.8
Benzene	2.289	2.260	0.010	AVRG	-1.3
Trichloroethene	0.392	0.423	0.010	AVRG	7.9
Tetrachloroethene	0.302	0.313	0.010	AVRG	3.6
1,1,2,2-Tetrachloroethane	0.362	0.379	0.300	AVRG	4.7
Trans-1,2-Dichloroethene	0.890	0.917	0.010	AVRG	3.0
1,2-Dichloroethane	1.424	1.470	0.010	AVRG	3.2
d4-1,2-Dichloroethane	0.901	0.786	0.010	AVRG	-12.8
d8-Toluene	1.274	1.281	0.010	AVRG	0.5

<- Exceeds QC limit of 20% D

* RF less than minimum RF

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU21

Project: LORA LAKE APARTMENTS RI

Ical Midpoint ID: 0426013

Ical Date: 04/26/11

Instrument ID: NT7

Project Run Date: 04/26/11

	IS1 (PFB) AREA #	RT #	IS2 (DFB) AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	310955	5.32	577506	5.76		
UPPER LIMIT	621910	5.82	1155012	6.26		
LOWER LIMIT	155478	4.82	288753	5.26		
=====	=====	=====	=====	=====	=====	=====
Sample ID						
=====	=====	=====	=====	=====	=====	=====
01 ICV	428287	5.33	783828	5.75		
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene

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

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU21

Project: LORA LAKE APARTMENTS RI

Ical Midpoint ID: 0426013

Ical Date: 04/26/11

Instrument ID: NT7

Project Run Date: 05/03/11

	IS1 (PFB) AREA #	RT #	IS2 (DFB) AREA #	RT #	AREA #	RT #
ICAL MIDPT	310955	5.32	577506	5.76		
UPPER LIMIT	621910	5.82	1155012	6.26		
LOWER LIMIT	155478	4.82	288753	5.26		
Sample ID						
01 LCS0503	371235	5.32	691618	5.75		
02 LCS0503	368545	5.32	688280	5.76		
03 MB0503	374268	5.33	671582	5.75		
04 TB-042611	360193	5.33	635546	5.75		
05 TB-042711	342984	5.32	622310	5.76		
06 TB-042811	334355	5.33	617379	5.75		
07 MW02-042611	337272	5.33	605168	5.75		
08 MW03-042611	345206	5.32	603420	5.76		
09 MW13-042611	332326	5.33	598780	5.77		
10 MW06-042611	329307	5.33	596467	5.75		
11 MW06-042611	381200	5.32	696898	5.76		
12 MW06-042611	412190	5.33	751697	5.75		
13 MW07-042711	396604	5.32	753683	5.76		
14 MW10-042711	354061	5.33	661517	5.77		
15 MW09-042711	378093	5.32	644456	5.77		
16 MW12-042711	266113	5.33	458881	5.77		
17 MW15042811	320598	5.33	566633	5.77		
18 MW4042811	324280	5.33	565886	5.77		
19 MW17042811	291433	5.33	551688	5.77		
20 MW14042811	307760	5.33	551825	5.77		
21						
22						

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene

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

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU21

Project: LORA LAKE APARTMENTS RI

Ical Midpoint ID: 0426013

Ical Date: 04/26/11

Instrument ID: NT7

Project Run Date: 05/04/11

	IS1 (PFB) AREA #	RT #	IS2 (DFB) AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	310955	5.32	577506	5.76		
UPPER LIMIT	621910	5.82	1155012	6.26		
LOWER LIMIT	155478	4.82	288753	5.26		
=====	=====	=====	=====	=====	=====	=====
Sample ID						
=====	=====	=====	=====	=====	=====	=====
01 LCS0504	262777	5.32	496109	5.76		
02 LCS0504	332174	5.33	613837	5.75		
03 MB0504	288519	5.32	540873	5.76		
04 TB-042911	318932	5.32	579037	5.75		
05 MW11-042711	314236	5.33	566832	5.77		
06 MW08-042711	306214	5.32	555326	5.77		
07 MW5042811	284721	5.32	537725	5.77		
08 MW16042811	329558	5.32	559059	5.77		
09 MW-01-042911	327319	5.32	616507	5.77		
10 MW-01-042911	358815	5.32	671821	5.77		
11 B312-042911	376103	5.32	682816	5.77		
12 B310-042911	361270	5.32	654245	5.77		
13 B311-042911	341470	5.33	625591	5.77		
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene

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

* Values outside of QC limits.

**SIM PAH Analysis
Report and Summary QC Forms**

ARI Job ID: SU53, SU73, SU74



ORGANICS ANALYSIS DATA SHEET
 PNAs by Low Level SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: MW5042811
 SAMPLE

Lab Sample ID: SU53A
 LIMS ID: 11-9621
 Matrix: Groundwater
 Data Release Authorized: *WW*
 Reported: 05/20/11

QC Report No: SU53-Floyd Snider
 Project: Lora Lake Apts RI
 Event: POS-LLA
 Date Sampled: 04/28/11
 Date Received: 04/28/11

Date Extracted: 05/04/11
 Date Analyzed: 05/16/11 15:58
 Instrument/Analyst: NT11/YZ

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

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 56.7%
 d14-Dibenzo(a,h)anthracene 65.7%

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: MW15042811

SAMPLE

Lab Sample ID: SU53B

LIMS ID: 11-9622

Matrix: Groundwater

Data Release Authorized: *www*

Reported: 05/20/11

QC Report No: SU53-Floyd Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: 04/28/11

Date Received: 04/28/11

Date Extracted: 05/04/11

Date Analyzed: 05/16/11 16:23

Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 54.7%
d14-Dibenzo(a,h)anthracene 61.3%

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: MW4042811

SAMPLE

Lab Sample ID: SU53C

LIMS ID: 11-9623

Matrix: Groundwater

Data Release Authorized: *mm*

Reported: 05/20/11

QC Report No: SU53-Floyd Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: 04/28/11

Date Received: 04/28/11

Date Extracted: 05/04/11

Date Analyzed: 05/16/11 16:47

Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	58.3%
d14-Dibenzo(a,h)anthracene	57.0%



ORGANICS ANALYSIS DATA SHEET
 PNAs by Low Level SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: MW17042811
 SAMPLE

Lab Sample ID: SU53D
 LIMS ID: 11-9624
 Matrix: Groundwater
 Data Release Authorized: *MW*
 Reported: 05/20/11

QC Report No: SU53-Floyd Snider
 Project: Lora Lake Apts RI
 Event: POS-LLA
 Date Sampled: 04/28/11
 Date Received: 04/28/11

Date Extracted: 05/04/11
 Date Analyzed: 05/16/11 18:00
 Instrument/Analyst: NT11/YZ

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

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 64.0%
 d14-Dibenzo(a,h)anthracene 69.3%

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: MW14042811

SAMPLE

Lab Sample ID: SU53E

LIMS ID: 11-9625

Matrix: Groundwater

Data Release Authorized: *MWJ*

Reported: 05/20/11

QC Report No: SU53-Floyd Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: 04/28/11

Date Received: 04/28/11

Date Extracted: 05/04/11

Date Analyzed: 05/16/11 18:24

Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 54.0%
d14-Dibenzo(a,h)anthracene 61.3%

ORGANICS ANALYSIS DATA SHEET

PNA's by Low Level SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: MW16042811

SAMPLE

Lab Sample ID: SU53F

LIMS ID: 11-9626

Matrix: Groundwater

Data Release Authorized: *WWW*

Reported: 05/20/11

QC Report No: SU53-Floyd Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: 04/28/11

Date Received: 04/28/11

Date Extracted: 05/04/11

Date Analyzed: 05/16/11 18:48

Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U


Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 64.0%
d14-Dibenzo(a,h)anthracene 69.0%

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: MW-01-042911
SAMPLE

Lab Sample ID: SU73A
 LIMS ID: 11-9762
 Matrix: Water
 Data Release Authorized: 
 Reported: 05/23/11

QC Report No: SU73-Floyd Snider
 Project: Lora Lake Apts RI
 Event: POS-LLA.4010
 Date Sampled: 04/29/11
 Date Received: 04/29/11

Date Extracted: 05/05/11
 Date Analyzed: 05/19/11 14:25
 Instrument/Analyst: NT11/VTS

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

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	0.0080 J
50-32-8	Benzo(a)pyrene	0.010	0.0057 J
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 62.0%
 d14-Dibenzo(a,h)anthracene 64.3%

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: MW-01-042911-D
SAMPLE

Lab Sample ID: SU73B
 LIMS ID: 11-9763
 Matrix: Water
 Data Release Authorized: *[Signature]*
 Reported: 05/23/11

QC Report No: SU73-Floyd Snider
 Project: Lora Lake Apts RI
 Event: POS-LLA.4010
 Date Sampled: 04/29/11
 Date Received: 04/29/11

Date Extracted: 05/05/11
 Date Analyzed: 05/19/11 14:49
 Instrument/Analyst: NT11/VTS

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

CAS Number	Analyte	RL	Result
56-55-3	Benzo (a) anthracene	0.010	0.0058 J
218-01-9	Chrysene	0.010	0.011
50-32-8	Benzo (a) pyrene	0.010	0.0086 J
193-39-5	Indeno (1,2,3-cd) pyrene	0.010	< 0.010 U
53-70-3	Dibenz (a,h) anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 62.0%
 d14-Dibenzo(a,h)anthracene 65.3%

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: B312-042911
SAMPLE

Lab Sample ID: SU74A
 LIMS ID: 11-9772
 Matrix: Water
 Data Release Authorized: *JA*
 Reported: 05/23/11

QC Report No: SU74-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL.4010
 Date Sampled: 04/29/11
 Date Received: 04/29/11

Date Extracted: 05/05/11
 Date Analyzed: 05/19/11 15:13
 Instrument/Analyst: NT11/VTS

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

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 55.3%
 d14-Dibenzo(a,h)anthracene 70.3%

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: B310-042911

SAMPLE

Lab Sample ID: SU74B

LIMS ID: 11-9773

Matrix: Water

Data Release Authorized: *AB*

Reported: 05/23/11

QC Report No: SU74-Floyd Snider

Project: Lora Lake Parcel

Event: POS-LL.4010

Date Sampled: 04/29/11

Date Received: 04/29/11

Date Extracted: 05/05/11

Date Analyzed: 05/19/11 16:26

Instrument/Analyst: NT11/VTS

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 63.0%
d14-Dibenzo(a,h)anthracene 71.7%

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: B311-042911

SAMPLE

Lab Sample ID: SU74C

LIMS ID: 11-9774

Matrix: Water

Data Release Authorized: *AS*

Reported: 05/23/11

QC Report No: SU74-Floyd Snider

Project: Lora Lake Parcel

Event: POS-LL.4010

Date Sampled: 04/29/11

Date Received: 04/29/11

Date Extracted: 05/05/11

Date Analyzed: 05/19/11 16:50

Instrument/Analyst: NT11/VTS

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 66.0%
d14-Dibenzo(a,h)anthracene 71.7%

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Groundwater

QC Report No: SU53-Floyd Snider
Project: Lora Lake Apts RI
POS-LLA

<u>Client ID</u>	<u>MNP</u>	<u>DBA</u>	<u>TOT OUT</u>
MW5042811	56.7%	65.7%	0
MW15042811	54.7%	61.3%	0
MB-050411	58.7%	74.3%	0
LCS-050411	59.0%	67.7%	0
LCSD-050411	65.7%	76.3%	0
MW4042811	58.3%	57.0%	0
MW4042811 MS	58.3%	65.7%	0
MW4042811 MSD	61.0%	69.7%	0
MW17042811	64.0%	69.3%	0
MW14042811	54.0%	61.3%	0
MW16042811	64.0%	69.0%	0

LCS/MB LIMITS QC LIMITS

(MNP) = d10-2-Methylnaphthalene (42-100) (31-109)
(DBA) = d14-Dibenzo(a,h)anthracene (40-125) (10-133)

Prep Method: SW3510C
Log Number Range: 11-9621 to 11-9626

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SU73-Floyd Snider
Project: Lora Lake Apts RI
POS-LLA.4010

<u>Client ID</u>	<u>MNP</u>	<u>DBA</u>	<u>TOT OUT</u>
MB-050511	67.0%	64.3%	0
LCS-050511	57.7%	59.7%	0
MW-01-042911	62.0%	64.3%	0
MW-01-042911-D	62.0%	65.3%	0

LCS/MB LIMITS QC LIMITS

(MNP) = d10-2-Methylnaphthalene (42-100) (31-109)
(DBA) = d14-Dibenzo(a,h)anthracene (40-125) (10-133)

Prep Method: SW3510C
Log Number Range: 11-9762 to 11-9763

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SU74-Floyd Snider
Project: Lora Lake Parcel
POS-LL.4010

<u>Client ID</u>	<u>MNP</u>	<u>DBA</u>	<u>TOT OUT</u>
MB-050511	67.0%	64.3%	0
LCS-050511	57.7%	59.7%	0
B312-042911	55.3%	70.3%	0
B312-042911 MS	53.7%	71.3%	0
B312-042911 MSD	53.3%	70.3%	0
B310-042911	63.0%	71.7%	0
B311-042911	66.0%	71.7%	0

LCS/MB LIMITS QC LIMITS

(MNP) = d10-2-Methylnaphthalene (42-100) (31-109)
(DBA) = d14-Dibenzo(a,h)anthracene (40-125) (10-133)

Prep Method: SW3510C
Log Number Range: 11-9772 to 11-9774

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: MW4042811
MATRIX SPIKE

Lab Sample ID: SU53C
 LIMS ID: 11-9623
 Matrix: Groundwater
 Data Release Authorized: *mmw*
 Reported: 05/20/11

QC Report No: SU53-Floyd Snider
 Project: Lora Lake Apts RI
 Event: POS-LLA
 Date Sampled: 04/28/11
 Date Received: 04/28/11

Date Extracted MS/MSD: 05/04/11
 Date Analyzed MS: 05/16/11 17:11
 MSD: 05/16/11 17:36
 Instrument/Analyst MS: NT11/YZ
 MSD: NT11/YZ

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

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Benzo(a)anthracene	< 0.0100 U	0.194	0.300	64.7%	0.209	0.300	69.7%	7.4%
Chrysene	< 0.0100 U	0.194	0.300	64.7%	0.213	0.300	71.0%	9.3%
Benzo(a)pyrene	< 0.0100 U	0.164	0.300	54.7%	0.175	0.300	58.3%	6.5%
Indeno(1,2,3-cd)pyrene	< 0.0100 U	0.193	0.300	64.3%	0.209	0.300	69.7%	8.0%
Dibenz(a,h)anthracene	< 0.0100 U	0.196	0.300	65.3%	0.210	0.300	70.0%	6.9%
Total Benzofluoranthenes	< 0.0100 U	0.394	0.600	65.7%	0.422	0.600	70.3%	6.9%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
PNA's by Low Level SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: MW4042811
MATRIX SPIKE

Lab Sample ID: SU53C
 LIMS ID: 11-9623
 Matrix: Groundwater
 Data Release Authorized: *WV*
 Reported: 05/20/11

QC Report No: SU53-Floyd Snider
 Project: Lora Lake Apts RI
 Event: POS-LLA
 Date Sampled: 04/28/11
 Date Received: 04/28/11

Date Extracted: 05/04/11
 Date Analyzed: 05/16/11 17:11
 Instrument/Analyst: NT11/YZ

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

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	---
218-01-9	Chrysene	0.010	---
50-32-8	Benzo(a)pyrene	0.010	---
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	---
53-70-3	Dibenz(a,h)anthracene	0.010	---
TOTBFA	Total Benzofluoranthenes	0.010	---

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 58.3%
 d14-Dibenzo(a,h)anthracene 65.7%

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: MW4042811
MATRIX SPIKE DUPLICATE

Lab Sample ID: SU53C
 LIMS ID: 11-9623
 Matrix: Groundwater
 Data Release Authorized: *YW*
 Reported: 05/20/11

QC Report No: SU53-Floyd Snider
 Project: Lora Lake Apts RI
 Event: POS-LLA
 Date Sampled: 04/28/11
 Date Received: 04/28/11

Date Extracted: 05/04/11
 Date Analyzed: 05/16/11 17:36
 Instrument/Analyst: NT11/YZ

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

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	---
218-01-9	Chrysene	0.010	---
50-32-8	Benzo(a)pyrene	0.010	---
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	---
53-70-3	Dibenz(a,h)anthracene	0.010	---
TOTBFA	Total Benzofluoranthenes	0.010	---

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	61.0%
d14-Dibenzo(a,h)anthracene	69.7%

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: B312-042911
MATRIX SPIKE

Lab Sample ID: SU74A
 LIMS ID: 11-9772
 Matrix: Water
 Data Release Authorized: *[Signature]*
 Reported: 05/23/11

QC Report No: SU74-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL.4010
 Date Sampled: 04/29/11
 Date Received: 04/29/11

Date Extracted MS/MSD: 05/05/11
 Date Analyzed MS: 05/19/11 15:38
 MSD: 05/19/11 16:02
 Instrument/Analyst MS: NT11/VTS
 MSD: NT11/VTS

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

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Benzo(a)anthracene	< 0.0100 U	0.212	0.300	70.7%	0.216	0.300	72.0%	1.9%
Chrysene	< 0.0100 U	0.209	0.300	69.7%	0.216	0.300	72.0%	3.3%
Benzo(a)pyrene	< 0.0100 U	0.187	0.300	62.3%	0.185	0.300	61.7%	1.1%
Indeno(1,2,3-cd)pyrene	< 0.0100 U	0.204	0.300	68.0%	0.207	0.300	69.0%	1.5%
Dibenz(a,h)anthracene	< 0.0100 U	0.205	0.300	68.3%	0.212	0.300	70.7%	3.4%
Total Benzofluoranthenes	< 0.0100 U	0.422	0.600	70.3%	0.437	0.600	72.8%	3.5%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
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Sample ID: B312-042911
MATRIX SPIKE

Lab Sample ID: SU74A
 LIMS ID: 11-9772
 Matrix: Water
 Data Release Authorized: *AS*
 Reported: 05/23/11

QC Report No: SU74-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL.4010
 Date Sampled: 04/29/11
 Date Received: 04/29/11

Date Extracted: 05/05/11
 Date Analyzed: 05/19/11 15:38
 Instrument/Analyst: NT11/VTS

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

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	---
218-01-9	Chrysene	0.010	---
50-32-8	Benzo(a)pyrene	0.010	---
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	---
53-70-3	Dibenz(a,h)anthracene	0.010	---
TOTBFA	Total Benzofluoranthenes	0.010	---

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 53.7%
 d14-Dibenzo(a,h)anthracene 71.3%

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: B312-042911
MATRIX SPIKE DUPLICATE

Lab Sample ID: SU74A
 LIMS ID: 11-9772
 Matrix: Water
 Data Release Authorized: *[Signature]*
 Reported: 05/23/11

QC Report No: SU74-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL.4010
 Date Sampled: 04/29/11
 Date Received: 04/29/11

Date Extracted: 05/05/11
 Date Analyzed: 05/19/11 16:02
 Instrument/Analyst: NT11/VTS

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

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	---
218-01-9	Chrysene	0.010	---
50-32-8	Benzo(a)pyrene	0.010	---
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	---
53-70-3	Dibenz(a,h)anthracene	0.010	---
TOTBFA	Total Benzofluoranthenes	0.010	---

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 53.3%
 d14-Dibenzo(a,h)anthracene 70.3%

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
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Sample ID: LCS-050411
LAB CONTROL SAMPLE

Lab Sample ID: LCS-050411
 LIMS ID: 11-9623
 Matrix: Groundwater
 Data Release Authorized: *mm*
 Reported: 05/20/11

QC Report No: SU53-Floyd Snider
 Project: Lora Lake Apts RI
 Event: POS-LLA
 Date Sampled: NA
 Date Received: NA

Date Extracted LCS/LCSD: 05/04/11
 Date Analyzed LCS: 05/16/11 12:44
 LCSD: 05/16/11 13:08
 Instrument/Analyst LCS: NT11/YZ
 LCSD: NT11/YZ

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

Analyte	LCS	Spike	LCS	LCS	Spike	LCSD	RPD
		Added-LCS	Recovery		Added-LCSD	Recovery	
Benzo(a)anthracene	0.202	0.300	67.3%	0.231	0.300	77.0%	13.4%
Chrysene	0.209	0.300	69.7%	0.233	0.300	77.7%	10.9%
Benzo(a)pyrene	0.172	0.300	57.3%	0.201	0.300	67.0%	15.5%
Indeno(1,2,3-cd)pyrene	0.190	0.300	63.3%	0.220	0.300	73.3%	14.6%
Dibenz(a,h)anthracene	0.196	0.300	65.3%	0.226	0.300	75.3%	14.2%
Total Benzofluoranthenes	0.399	0.600	66.5%	0.457	0.600	76.2%	13.6%

Reported in µg/L (ppb)


RPD calculated using sample concentrations per SW846.

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	59.0%	65.7%
d14-Dibenzo(a,h)anthracene	67.7%	76.3%

ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
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Sample ID: LCS-050511
LAB CONTROL SAMPLE

Lab Sample ID: LCS-050511
 LIMS ID: 11-9762
 Matrix: Water
 Data Release Authorized: 
 Reported: 05/23/11

QC Report No: SU73-Floyd Snider
 Project: Lora Lake Apts RI
 Event: POS-LLA.4010
 Date Sampled: NA
 Date Received: NA

Date Extracted LCS/LCSD: 05/05/11
 Date Analyzed LCS: 05/19/11 13:36
 Instrument/Analyst LCS: NT11/VTS

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

Analyte	LCS	Spike Added	Recovery
Benzo(a)anthracene	0.179	0.300	59.7%
Chrysene	0.194	0.300	64.7%
Benzo(a)pyrene	0.0905	0.300	30.2%
Indeno(1,2,3-cd)pyrene	0.166	0.300	55.3%
Dibenz(a,h)anthracene	0.176	0.300	58.7%
Total Benzofluoranthenes	0.390	0.600	65.0%

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	57.7%
d14-Dibenzo(a,h)anthracene	59.7%

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

SU45MBW1

Lab Name: ANALYTICAL RESOURCES, INC

Client: NEWFIELDS

ARI Job No: SU53

Project: LATERAL LOAD

Lab File ID: SU45MB

Date Extracted: 05/04/11

Instrument ID: NT11

Date Analyzed: 05/16/11

Matrix: LIQUID

Time Analyzed: 1220

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	=====	=====	=====	=====
01	SU45LCSW1	SU45LCSW1	SU45SB	05/16/11
02	SU45LCSDW1	SU45LCSDW1	SU45SBD	05/16/11
03	MW5042811	SU53A	SU53A	05/16/11
04	MW15042811	SU53B	SU53B	05/16/11
05	MW4042811	SU53C	SU53C	05/16/11
06	MW4042811 MS	SU53CMS	SU53CMS	05/16/11
07	MW4042811 MSD	SU53CMSD	SU53CMSD	05/16/11
08	MW17042811	SU53D	SU53D	05/16/11
09	MW14042811	SU53E	SU53E	05/16/11
10	MW16042811	SU53F	SU53F	05/16/11
11				
12				
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ORGANICS ANALYSIS DATA SHEET
PNAs by Low Level SW8270D-SIM GC/MS
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Sample ID: MB-050411
METHOD BLANK

Lab Sample ID: MB-050411
 LIMS ID: 11-9623
 Matrix: Groundwater
 Data Release Authorized: *YRW*
 Reported: 05/20/11

QC Report No: SU53-Floyd Snider
 Project: Lora Lake Apts RI
 Event: POS-LLA
 Date Sampled: NA
 Date Received: NA

Date Extracted: 05/04/11
 Date Analyzed: 05/16/11 12:20
 Instrument/Analyst: NT11/YZ

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

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 58.7%
 d14-Dibenzo(a,h)anthracene 74.3%

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

SU73MBW1

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU74

Project: LORA LAKE APTS RI

Lab File ID: SU73MB

Date Extracted: 05/05/11

Instrument ID: NT11

Date Analyzed: 05/19/11

Matrix: LIQUID

Time Analyzed: 1312

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	=====	=====	=====	=====
01	SU73LCSW1	SU73LCSW1	SU73SB	05/19/11
02	MW-01-042911	SU73A	SU73A	05/19/11
03	MW-01-042911-D	SU73B	SU73B	05/19/11
04	B312-042911	SU74A	SU74A	05/19/11
05	B312-042911 MS	SU74AMS	SU74AMS	05/19/11
06	B312-042911 MSD	SU74AMSD	SU74AMSD	05/19/11
07	B310-042911	SU74B	SU74B	05/19/11
08	B311-042911	SU74C	SU74C	05/19/11
09				
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ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

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Sample ID: MB-050511

METHOD BLANK

Lab Sample ID: MB-050511

QC Report No: SU73-Floyd Snider

LIMS ID: 11-9762

Project: Lora Lake Apts RI

Matrix: Water

Event: POS-LLA.4010

Data Release Authorized: *AS*

Date Sampled: NA

Reported: 05/23/11

Date Received: NA

Date Extracted: 05/05/11

Sample Amount: 500 mL

Date Analyzed: 05/19/11 13:12

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT11/VTS

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 67.0%

d14-Dibenzo(a,h)anthracene 64.3%

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

Instrument ID: NT11

Project: LORA LAKE APTS RI

DFTPP Injection Date: 04/30/11

DFTPP Injection Time: 0952

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	21.3
68	Less than 2.0% of mass 69	0.2 (0.4)1
69	Mass 69 relative abundance	57.2
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	10.0 - 80.0% of mass 198	55.0
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	8.9
275	10.0 - 60.0% of mass 198	28.1
365	Greater than 1.0% of mass 198	3.78
441	0.0 - 24.0% of mass 442	17.4 (18.3)2
442	50.0 - 200.0% of mass 198	95.1
443	15.0 - 24.0% of mass 442	22.2 (23.3)2

1-Value is % mass 69

2-Value is % mass 442

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SIM250	IC0430A	04/30/11	1012
02		SIM1000	IC0430B	04/30/11	1037
03		SIM10	IC0430C	04/30/11	1102
04		SIM500	IC0430D	04/30/11	1126
05		SIM50	IC0430E	04/30/11	1151
06		SIM100	IC0430F	04/30/11	1215
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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

Instrument ID: NT11

Project: LORA LAKE APTS RI

DFTPP Injection Date: 05/16/11

DFTPP Injection Time: 1004

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	17.4
68	Less than 2.0% of mass 69	0.9 (1.6)1
69	Mass 69 relative abundance	56.1
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	10.0 - 80.0% of mass 198	53.0
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	8.9
275	10.0 - 60.0% of mass 198	27.7
365	Greater than 1.0% of mass 198	3.52
441	0.0 - 24.0% of mass 442	16.0 (18.1)2
442	50.0 - 200.0% of mass 198	88.0
443	15.0 - 24.0% of mass 442	20.9 (23.8)2

1-Value is % mass 69

2-Value is % mass 442

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		CC0514	CC0516	05/16/11	1019
02	SU45MBW1	SU45MBW1	SU45MB	05/16/11	1220
03	SU45LCSW1	SU45LCSW1	SU45SB	05/16/11	1244
04	SU45LCSDW1	SU45LCSDW1	SU45SBD	05/16/11	1308
05	MW5042811	SU53A	SU53A	05/16/11	1558
06	MW15042811	SU53B	SU53B	05/16/11	1623
07	MW4042811	SU53C	SU53C	05/16/11	1647
08	MW4042811 MS	SU53CMS	SU53CMS	05/16/11	1711
09	MW4042811 MSD	SU53CMSD	SU53CMSD	05/16/11	1736
10	MW17042811	SU53D	SU53D	05/16/11	1800
11	MW14042811	SU53E	SU53E	05/16/11	1824
12	MW16042811	SU53F	SU53F	05/16/11	1848
13					
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18					
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22					

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

Instrument ID: NT11

Project: LORA LAKE APTS RI

DFTPP Injection Date: 05/19/11

DFTPP Injection Time: 0921

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	17.6
68	Less than 2.0% of mass 69	0.7 (1.3)1
69	Mass 69 relative abundance	54.3
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	10.0 - 80.0% of mass 198	51.9
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	8.4
275	10.0 - 60.0% of mass 198	29.2
365	Greater than 1.0% of mass 198	3.59
441	0.0 - 24.0% of mass 442	17.2 (18.6)2
442	50.0 - 200.0% of mass 198	92.4
443	15.0 - 24.0% of mass 442	21.5 (23.3)2

1-Value is % mass 69

2-Value is % mass 442

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		CC0519	CC0519	05/19/11	0935
02	SU73MBW1	SU73MBW1	SU73MB	05/19/11	1312
03	SU73LCSW1	SU73LCSW1	SU73SB	05/19/11	1336
04	MW-01-042911	SU73A	SU73A	05/19/11	1425
05	MW-01-042911-D	SU73B	SU73B	05/19/11	1449
06	B312-042911	SU74A	SU74A	05/19/11	1513
07	B312-042911 MS	SU74AMS	SU74AMS	05/19/11	1538
08	B312-042911 MSD	SU74AMSD	SU74AMSD	05/19/11	1602
09	B310-042911	SU74B	SU74B	05/19/11	1626
10	B311-042911	SU74C	SU74C	05/19/11	1650
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6B

SEMIVOLATILE 8270-D INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU53

Project: LORA LAKE APTS RI

Instrument ID: NT11

Calibration Date: 04/30/11

LAB FILE ID:	RRF10 =IC0430C	RRF50 =IC0430E	RRF100=IC0430F
	RRF250=IC0430A	RRF500=IC0430D	RRF1000=IC0430B

COMPOUND	RRF 10	RRF 50	RRF 100	RRF 250	RRF 500	RRF 1000	RRF	%RSD /R^2
=====	=====	=====	=====	=====	=====	=====	=====	=====
Naphthalene	1.081	1.024	1.033	0.972	0.899	0.746	0.959	12.7
2-Methylnaphthalene	0.591	0.584	0.610	0.603	0.587	0.520	0.582	5.5
Acenaphthylene	1.668	1.557	1.666	1.593	1.530	1.347	1.560	7.6
Acenaphthene	1.030	0.962	1.046	1.012	0.951	0.896	0.983	5.8
Dibenzofuran	1.555	1.438	1.545	1.509	1.392	1.244	1.447	8.1
Fluorene	1.072	0.999	1.069	1.055	0.995	0.941	1.022	5.1
Phenanthrene	1.117	1.039	1.066	1.019	0.967	0.824	1.005	10.1
Anthracene	0.999	0.939	1.016	0.973	0.948	0.835	0.952	6.7
Fluoranthene	1.072	0.946	1.050	1.009	0.993	0.858	0.988	7.8
Pyrene	1.947	1.721	1.835	1.734	1.551	1.294	1.680	13.7
Benzo (a) anthracene	1.700	1.395	1.499	1.372	1.304	1.134	1.401	13.5
Chrysene	1.676	1.434	1.521	1.391	1.298	1.130	1.408	13.3
Benzo (a) pyrene	1.504	1.388	1.479	1.460	1.419	1.357	1.434	3.9
Indeno (1, 2, 3-cd) pyrene	1.796	1.693	1.775	1.780	1.706	1.640	1.732	3.5
Dibenzo (a, h) anthracene	1.418	1.314	1.373	1.372	1.322	1.295	1.349	3.4
Benzo (g, h, i) perylene	1.639	1.527	1.592	1.568	1.496	1.435	1.543	4.7
1-Methylnaphthalene	0.585	0.578	0.610	0.596	0.585	0.514	0.578	5.8
Total Benzofluoranthenes	1.726	1.603	1.706	1.641	1.571	1.446	1.616	6.3
=====	=====	=====	=====	=====	=====	=====	=====	=====
2-Methylnaphthalene-d10	0.614	0.585	0.606	0.596	0.571	0.514	0.581	6.2
Dibenzo (a, h) anthracene-d14	1.353	1.198	1.302	1.276	1.196	1.191	1.253	5.4

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

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU53

Project: LORA LAKE APTS RI

Instrument ID: NT11

Cont. Calib. Date: 05/16/11

Init. Calib. Date: 04/30/11

Cont. Calib. Time: 1019

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
=====	=====	=====	=====	=====	=====
Naphthalene	0.959	0.969	0.700	AVRG	1.0
2-Methylnaphthalene	0.582	0.604	0.400	AVRG	3.8
Acenaphthylene	1.560	1.628	0.900	AVRG	4.4
Acenaphthene	0.983	1.002	0.900	AVRG	1.9
Dibenzofuran	1.447	1.523	0.800	AVRG	5.2
Fluorene	1.022	1.079	0.900	AVRG	5.6
Phenanthrene	1.005	0.977	0.700	AVRG	-2.8
Anthracene	0.952	0.970	0.700	AVRG	1.9
Fluoranthene	0.988	1.052	0.600	AVRG	6.5
Pyrene	1.680	1.621	0.600	AVRG	-3.5
Benzo (a) anthracene	1.401	1.357	0.800	AVRG	-3.1
Chrysene	1.408	1.380	0.700	AVRG	-2.0
Benzo (a) pyrene	1.434	1.385	0.700	AVRG	-3.4
Indeno (1, 2, 3-cd) pyrene	1.732	1.707	0.500	AVRG	-1.4
Dibenzo (a, h) anthracene	1.349	1.346	0.400	AVRG	-0.2
Benzo (g, h, i) perylene	1.543	1.500	0.500	AVRG	-2.8
1-Methylnaphthalene	0.578	0.615	0.010	AVRG	6.4
Total Benzofluoranthenes	1.616	1.534	0.010	AVRG	-5.1
=====	=====	=====	=====	=====	=====
2-Methylnaphthalene-d10	0.581	0.604	0.010	AVRG	4.0
Dibenzo (a, h) anthracene-d14	1.253	1.228	0.010	AVRG	-2.0

<- Exceeds QC limit of 20% D

* RF less than minimum RF

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU74

Project: LORA LAKE APTS RI

Instrument ID: NT11

Cont. Calib. Date: 05/19/11

Init. Calib. Date: 04/30/11

Cont. Calib. Time: 0935

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
Naphthalene	0.959	0.971	0.700	AVRG	1.2
2-Methylnaphthalene	0.582	0.609	0.400	AVRG	4.6
Acenaphthylene	1.560	1.609	0.900	AVRG	3.1
Acenaphthene	0.983	1.005	0.900	AVRG	2.2
Dibenzofuran	1.447	1.531	0.800	AVRG	5.8
Fluorene	1.022	1.055	0.900	AVRG	3.2
Phenanthrene	1.005	1.012	0.700	AVRG	0.7
Anthracene	0.952	0.961	0.700	AVRG	0.9
Fluoranthene	0.988	1.038	0.600	AVRG	5.1
Pyrene	1.680	1.599	0.600	AVRG	-4.8
Benzo(a)anthracene	1.401	1.349	0.800	AVRG	-3.7
Chrysene	1.408	1.404	0.700	AVRG	-0.3
Benzo(a)pyrene	1.434	1.437	0.700	AVRG	0.2
Indeno(1,2,3-cd)pyrene	1.732	1.760	0.500	AVRG	1.6
Dibenzo(a,h)anthracene	1.349	1.370	0.400	AVRG	1.6
Benzo(g,h,i)perylene	1.543	1.491	0.500	AVRG	-3.4
1-Methylnaphthalene	0.578	0.602	0.010	AVRG	4.2
Total Benzofluoranthenes	1.616	1.600	0.010	AVRG	-1.0
2-Methylnaphthalene-d10	0.581	0.603	0.010	AVRG	3.8
Dibenzo(a,h)anthracene-d14	1.253	1.264	0.010	AVRG	0.9

<- Exceeds QC limit of 20% D

* RF less than minimum RF

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU53

Project: LORA LAKE APTS RI

Ical Midpoint ID: IC0430A

Ical Date: 04/30/11

Instrument ID: NT11

Cont. Cal Date: 05/16/11

	IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 (PHN) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	129326	6.27	70573	8.47	113741	10.30
UPPER LIMIT	258652		141146		227482	
LOWER LIMIT	64663		35286		56870	
=====	=====	=====	=====	=====	=====	=====
CCAL	121727	6.27	69884	8.47	116143	10.30
UPPER LIMIT		6.77		8.97		10.80
LOWER LIMIT		5.77		7.97		9.80
01 SU45MBW1	114372	6.27	63779	8.45	101283	10.30
02 SU45LCSW1	122313	6.27	72780	8.45	119298	10.30
03 SU45LCSDW1	118073	6.27	69478	8.45	106510	10.30
04 MW5042811	118071	6.27	70065	8.47	113950	10.30
05 MW15042811	121196	6.27	70575	8.47	118974	10.30
06 MW4042811	120343	6.27	72423	8.47	123589	10.30
07 MW4042811 MS	120332	6.27	72647	8.47	120641	10.30
08 MW4042811 MS	123172	6.27	72829	8.45	121870	10.30
09 MW17042811	124759	6.27	72222	8.47	122396	10.30
10 MW14042811	121662	6.27	70080	8.45	118353	10.30
11 MW16042811	122354	6.27	68437	8.45	113162	10.30
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IS1 = Naphthalene-d8
 IS2 = Acenaphthene-d10
 IS3 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

SU53:00100

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU53

Project: LORA LAKE APTS RI

Ical Midpoint ID: IC0430A

Ical Date: 04/30/11

Instrument ID: NT11

Cont. Cal Date: 05/16/11

	IS4 (CRY)		IS5 (PRY)			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	70763	13.63	54896	15.61		
UPPER LIMIT	141526		109792			
LOWER LIMIT	35382		27448			
=====	=====	=====	=====	=====	=====	=====
CCAL	77816	13.63	64337	15.61		
UPPER LIMIT		14.13		16.11		
LOWER LIMIT		13.13		15.11		
01 SU45MBW1	66352	13.63	57382	15.61		
02 SU45LCSW1	78581	13.63	65906	15.61		
03 SU45LCSDW1	71825	13.63	60831	15.61		
04 MW5042811	77577	13.63	66676	15.61		
05 MW15042811	78241	13.63	66146	15.61		
06 MW4042811	81508	13.63	68851	15.61		
07 MW4042811 MS	83655	13.63	69114	15.61		
08 MW4042811 MS	81868	13.63	69858	15.61		
09 MW17042811	80713	13.63	66914	15.61		
10 MW14042811	78044	13.63	67186	15.61		
11 MW16042811	75098	13.63	65013	15.61		
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IS4 = Chrysene-d12

IS5 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint

AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint

RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal

RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU74

Project: LORA LAKE APTS RI

Ical Midpoint ID: IC0430A

Ical Date: 04/30/11

Instrument ID: NT11

Cont. Cal Date: 05/19/11

	IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 (PHN) AREA #	RT #
ICAL MIDPT	129326	6.27	70573	8.47	113741	10.30
UPPER LIMIT	258652		141146		227482	
LOWER LIMIT	64663		35286		56870	
CCAL	114549	6.27	64310	8.47	104174	10.30
UPPER LIMIT		6.77		8.97		10.80
LOWER LIMIT		5.77		7.97		9.80
01 SU73MBW1	124138	6.27	70204	8.45	114479	10.30
02 SU73LCSW1	118038	6.27	69817	8.47	118403	10.30
03 MW-01-042911	125849	6.27	79455	8.45	124833	10.30
04 MW-01-042911	120625	6.27	76759	8.47	123762	10.30
05 B312-042911	119557	6.27	70279	8.47	120326	10.30
06 B312-042911	115311	6.27	68463	8.47	116747	10.30
07 B312-042911	116649	6.27	69292	8.47	119369	10.30
08 B310-042911	115855	6.27	68143	8.45	111834	10.30
09 B311-042911	114081	6.27	66837	8.47	111242	10.30
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IS1 = Naphthalene-d8

IS2 = Acenaphthene-d10

IS3 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU74

Project: LORA LAKE APTS RI

Ical Midpoint ID: IC0430A

Ical Date: 04/30/11

Instrument ID: NT11

Cont. Cal Date: 05/19/11

	IS4 (CRY) AREA #	RT #	IS5 (PRY) AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	70763	13.63	54896	15.61		
UPPER LIMIT	141526		109792			
LOWER LIMIT	35382		27448			
=====	=====	=====	=====	=====	=====	=====
CCAL	70778	13.63	59638	15.61		
UPPER LIMIT		14.13		16.11		
LOWER LIMIT		13.13		15.11		
01 SU73MBW1	73529	13.63	64698	15.61		
02 SU73LCSW1	80682	13.63	63399	15.61		
03 MW-01-042911	77890	13.63	65588	15.61		
04 MW-01-042911	76395	13.63	61863	15.61		
05 B312-042911	77405	13.63	63881	15.61		
06 B312-042911	77009	13.63	63699	15.61		
07 B312-042911	81533	13.63	64909	15.61		
08 B310-042911	71589	13.63	61430	15.61		
09 B311-042911	75124	13.63	62191	15.61		
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25						

IS4 = Chrysene-d12
IS5 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

**PCP/Chlorophenols Analysis
Report and Summary QC Forms**

ARI Job ID: SU53, SU73, SU74

ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1


Sample ID: MW5042811

SAMPLE

Lab Sample ID: SU53A

LIMS ID: 11-9621

Matrix: Groundwater

Data Release Authorized: 

Reported: 05/18/11

QC Report No: SU53-Floyd Snider

Project: Lora Lake Apts RI

POS-LLA

Date Sampled: 04/28/11

Date Received: 04/28/11

Date Extracted: 05/04/11

Date Analyzed: 05/16/11 17:25

Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL

Final Extract Volume: 50 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	1.4

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	66.4%
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ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1


Sample ID: MW15042811

SAMPLE

Lab Sample ID: SU53B

LIMS ID: 11-9622

Matrix: Groundwater

Data Release Authorized: 

Reported: 05/18/11

QC Report No: SU53-Floyd Snider

Project: Lora Lake Apts RI

POS-LLA

Date Sampled: 04/28/11

Date Received: 04/28/11

Date Extracted: 05/04/11

Date Analyzed: 05/16/11 18:01

Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL

Final Extract Volume: 50 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol 68.0%

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

Sample ID: MW4042811
SAMPLE

Lab Sample ID: SU53C
 LIMS ID: 11-9623
 Matrix: Groundwater
 Data Release Authorized: *AB*
 Reported: 05/18/11

QC Report No: SU53-Floyd Snider
 Project: Lora Lake Apts RI
 POS-LLA
 Date Sampled: 04/28/11
 Date Received: 04/28/11

Date Extracted: 05/04/11
 Date Analyzed: 05/16/11 21:03
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U


Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	55.2%
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ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: MW17042811
SAMPLE

Lab Sample ID: SU53D
 LIMS ID: 11-9624
 Matrix: Groundwater
 Data Release Authorized: 
 Reported: 05/18/11

QC Report No: SU53-Floyd Snider
 Project: Lora Lake Apts RI
 POS-LLA
 Date Sampled: 04/28/11
 Date Received: 04/28/11

Date Extracted: 05/04/11
 Date Analyzed: 05/16/11 21:39
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U
Reported in µg/L (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	69.2%	

ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1

Sample ID: MW14042811

SAMPLE

Lab Sample ID: SU53E

LIMS ID: 11-9625

Matrix: Groundwater

Data Release Authorized: *AS*

Reported: 05/18/11

QC Report No: SU53-Floyd Snider

Project: Lora Lake Apts RI

POS-LLA

Date Sampled: 04/28/11

Date Received: 04/28/11

Date Extracted: 05/04/11

Date Analyzed: 05/16/11 22:16

Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL

Final Extract Volume: 50 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U


Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	67.2%
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ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Page 1 of 1

Sample ID: MW16042811
SAMPLE

Lab Sample ID: SU53F
LIMS ID: 11-9626
Matrix: Groundwater
Data Release Authorized: 
Reported: 05/18/11

QC Report No: SU53-Floyd Snider
Project: Lora Lake Apts RI
POS-LLA
Date Sampled: 04/28/11
Date Received: 04/28/11

Date Extracted: 05/04/11
Date Analyzed: 05/16/11 22:52
Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	66.8%
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ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: MW-01-042911
SAMPLE

Lab Sample ID: SU73A
 LIMS ID: 11-9762
 Matrix: Water
 Data Release Authorized: *AS*
 Reported: 05/18/11

QC Report No: SU73-Floyd Snider
 Project: Lora Lake Apts RI
 POS-LLA.4010
 Date Sampled: 04/29/11
 Date Received: 04/29/11

Date Extracted: 05/05/11
 Date Analyzed: 05/17/11 02:29
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	0.41

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	78.8%
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ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: MW-01-042911-D
SAMPLE

Lab Sample ID: SU73B
 LIMS ID: 11-9763
 Matrix: Water
 Data Release Authorized: *[Signature]*
 Reported: 05/18/11

QC Report No: SU73-Floyd Snider
 Project: Lora Lake Apts RI
 POS-LLA.4010
 Date Sampled: 04/29/11
 Date Received: 04/29/11


Date Extracted: 05/05/11
 Date Analyzed: 05/17/11 03:06
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	0.42
Reported in µg/L (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	79.6%	

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

Sample ID: B312-042911
SAMPLE

Lab Sample ID: SU74A
 LIMS ID: 11-9772
 Matrix: Water
 Data Release Authorized: 
 Reported: 05/18/11

QC Report No: SU74-Floyd Snider
 Project: Lora Lake Parcel
 POS-LL.4010
 Date Sampled: 04/29/11
 Date Received: 04/29/11


Date Extracted: 05/05/11
 Date Analyzed: 05/17/11 04:54
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U
Reported in µg/L (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	61.6%	

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

Sample ID: B310-042911
SAMPLE

Lab Sample ID: SU74B
 LIMS ID: 11-9773
 Matrix: Water
 Data Release Authorized: 
 Reported: 05/18/11

QC Report No: SU74-Floyd Snider
 Project: Lora Lake Parcel
 POS-LL.4010
 Date Sampled: 04/29/11
 Date Received: 04/29/11

Date Extracted: 05/05/11
 Date Analyzed: 05/17/11 05:31
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U
Reported in µg/L (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	72.8%	

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

Sample ID: B311-042911
SAMPLE

Lab Sample ID: SU74C
 LIMS ID: 11-9774
 Matrix: Water
 Data Release Authorized: *AB*
 Reported: 05/18/11

QC Report No: SU74-Floyd Snider
 Project: Lora Lake Parcel
 POS-LL.4010
 Date Sampled: 04/29/11
 Date Received: 04/29/11

Date Extracted: 05/05/11
 Date Analyzed: 05/17/11 06:07
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U
Reported in µg/L (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	64.8%	

SW8041 CHLOROPHENOLICS SURROGATE RECOVERY SUMMARY

Matrix: Groundwater

QC Report No: SU53-Floyd Snider
Project: Lora Lake Apts RI
POS-LLA

<u>Client ID</u>	<u>TBP</u>	<u>TOT OUT</u>
MW5042811	66.4%	0
MB-050411	56.4%	0
LCS-050411	63.0%	0
MW15042811	68.0%	0
MW15042811 MS	67.6%	0
MW15042811 MSD	67.8%	0
MW4042811	55.2%	0
MW17042811	69.2%	0
MW14042811	67.2%	0
MW16042811	66.8%	0

LCS/MB LIMITS QC LIMITS

(TBP) = 2,4,6-Tribromophenol

(40-130)

(11-156)

Prep Method: SW3510C
Log Number Range: 11-9621 to 11-9626

SW8041 CHLOROPHENOLICS SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SU73-Floyd Snider
Project: Lora Lake Apts RI
POS-LLA.4010

<u>Client ID</u>	<u>TBP</u>	<u>TOT OUT</u>
MW-01-042911	78.8%	0
MB-050511	66.8%	0
LCS-050511	68.0%	0
MW-01-042911-D	79.6%	0
MW-01-042911-D MS	71.6%	0
MW-01-042911-D MSD	70.2%	0

LCS/MB LIMITS QC LIMITS

(TBP) = 2,4,6-Tribromophenol (40-130) (11-156)

Prep Method: SW3510C
Log Number Range: 11-9762 to 11-9763

SW8041 CHLOROPHENOLICS SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SU74-Floyd Snider
Project: Lora Lake Parcel
POS-LL.4010

<u>Client ID</u>	<u>TBP</u>	<u>TOT OUT</u>
MB-050511	66.8%	0
LCS-050511	68.0%	0
B312-042911	61.6%	0
B310-042911	72.8%	0
B311-042911	64.8%	0

LCS/MB LIMITS QC LIMITS

(TBP) = 2,4,6-Tribromophenol

(40-130)

(11-156)

Prep Method: SW3510C
Log Number Range: 11-9772 to 11-9774

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

Sample ID: MW15042811
MS/MSD

Lab Sample ID: SU53B
 LIMS ID: 11-9622
 Matrix: Groundwater
 Data Release Authorized: *[Signature]*
 Reported: 05/18/11

QC Report No: SU53-Floyd Snider
 Project: Lora Lake Apts RI
 POS-LLA
 Date Sampled: 04/28/11
 Date Received: 04/28/11

Date Extracted MS/MSD: 05/04/11
 Date Analyzed MS: 05/16/11 18:37
 MSD: 05/16/11 19:14
 Instrument/Analyst MS: ECD1/AAR
 MSD: ECD1/AAR


Sample Amount MS: 500 mL
 MSD: 500 mL
 Final Extract Volume MS: 50 mL
 MSD: 50 mL
 Dilution Factor MS: 1.00
 MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Pentachlorophenol	< 0.25 U	1.70	2.50	68.0%	1.65	2.50	66.0%	3.0%

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

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

Sample ID: MW15042811
MATRIX SPIKE

Lab Sample ID: SU53B
 LIMS ID: 11-9622
 Matrix: Groundwater
 Data Release Authorized: 
 Reported: 05/18/11

QC Report No: SU53-Floyd Snider
 Project: Lora Lake Apts RI
 POS-LLA
 Date Sampled: 04/28/11
 Date Received: 04/28/11

Date Extracted: 05/04/11
 Date Analyzed: 05/16/11 18:37
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	---
Reported in µg/L (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	67.6%	

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

Sample ID: MW15042811
MATRIX SPIKE DUP

Lab Sample ID: SU53B
 LIMS ID: 11-9622
 Matrix: Groundwater
 Data Release Authorized: *AB*
 Reported: 05/18/11

QC Report No: SU53-Floyd Snider
 Project: Lora Lake Apts RI
 POS-LLA
 Date Sampled: 04/28/11
 Date Received: 04/28/11


Date Extracted: 05/04/11
 Date Analyzed: 05/16/11 19:14
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	---
Reported in µg/L (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	67.8%	

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

Sample ID: MW-01-042911-D
MS/MSD

Lab Sample ID: SU73B
 LIMS ID: 11-9763
 Matrix: Water
 Data Release Authorized: 
 Reported: 05/18/11

QC Report No: SU73-Floyd Snider
 Project: Lora Lake Apts RI
 POS-LLA.4010
 Date Sampled: 04/29/11
 Date Received: 04/29/11

Date Extracted MS/MSD: 05/05/11
 Date Analyzed MS: 05/17/11 03:42
 MSD: 05/17/11 04:18
 Instrument/Analyst MS: ECD1/AAR
 MSD: ECD1/AAR


Sample Amount MS: 500 mL
 MSD: 500 mL
 Final Extract Volume MS: 50 mL
 MSD: 50 mL
 Dilution Factor MS: 1.00
 MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Pentachlorophenol	0.42	2.35	2.50	77.2%	2.31	2.50	75.6%	1.7%

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

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

Sample ID: MW-01-042911-D
MATRIX SPIKE

Lab Sample ID: SU73B
LIMS ID: 11-9763
Matrix: Water
Data Release Authorized: 
Reported: 05/18/11

QC Report No: SU73-Floyd Snider
Project: Lora Lake Apts RI
POS-LLA.4010
Date Sampled: 04/29/11
Date Received: 04/29/11

Date Extracted: 05/05/11
Date Analyzed: 05/17/11 03:42
Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	---
Reported in µg/L (ppb)			
Chlorophenol Surrogate Recovery			
2,4,6-Tribromophenol		71.6%	

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

Sample ID: MW-01-042911-D
MATRIX SPIKE DUP

Lab Sample ID: SU73B
 LIMS ID: 11-9763
 Matrix: Water
 Data Release Authorized: *AB*
 Reported: 05/18/11

QC Report No: SU73-Floyd Snider
 Project: Lora Lake Apts RI
 POS-LLA.4010
 Date Sampled: 04/29/11
 Date Received: 04/29/11


Date Extracted: 05/05/11
 Date Analyzed: 05/17/11 04:18
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	---
Reported in µg/L (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	70.2%	

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

Sample ID: LCS-050411
LAB CONTROL

Lab Sample ID: LCS-050411
 LIMS ID: 11-9622
 Matrix: Groundwater
 Data Release Authorized: 
 Reported: 05/18/11

QC Report No: SU53-Floyd Snider
 Project: Lora Lake Apts RI
 POS-LLA
 Date Sampled: 04/28/11
 Date Received: 04/28/11

Date Extracted: 05/04/11
 Date Analyzed: 05/16/11 16:12
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

Analyte	Lab Control	Spike Added	Recovery
Pentachlorophenol	1.65	2.50	66.0%


Chlorophenols Surrogate Recovery

2,4,6-Tribromophenol 63.0%

Results reported in µg/L

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

Sample ID: LCS-050511
LAB CONTROL

Lab Sample ID: LCS-050511
 LIMS ID: 11-9772
 Matrix: Water
 Data Release Authorized: 
 Reported: 05/18/11

QC Report No: SU74-Floyd Snider
 Project: Lora Lake Parcel
 POS-LL.4010
 Date Sampled: 04/29/11
 Date Received: 04/29/11

Date Extracted: 05/05/11
 Date Analyzed: 05/17/11 01:17
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

Analyte	Lab Control	Spike Added	Recovery
Pentachlorophenol	1.64	2.50	65.6%

Chlorophenols Surrogate Recovery

2,4,6-Tribromophenol 68.0%

Results reported in µg/L

4
CHLOROPHENOL METHOD BLANK SUMMARY

SAMPLE NO.

SU53MBW1

Lab Name: ANALYTICAL RESOURCES, INC	Client: FLOYD SNIDER
ARI Job No.: SU53	Project: LORA LAKE APTS RI
Lab Sample ID: SU53MBW1	Lab File ID: 0516A007
Matrix (soil/water) LIQUID	Extraction: (SepF/Cont/Sonc) SW3510C
Sulfur Cleanup (Y/N) Y	Date Extracted: 05/04/11
Date Analyzed (1): 05/16/11	Date Analyzed (2): 05/16/11
Time Analyzed (1): 1536	Time Analyzed (2): 1536
Instrument ID (1): ECD1	Instrument ID (2): ECD1
GC Column (1): STX CLP1 ID: 0.53 (mm)	GC Column (2): STX CLP2 ID: 0.53 (mm)

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
=====				
01	MW4042811	SU53C	05/16/11	05/16/11
02	SU53LCSW1	SU53LCSW1	05/16/11	05/16/11
03	MW5042811	SU53A	05/16/11	05/16/11
04	MW15042811	SU53B	05/16/11	05/16/11
05	MW15042811 M	SU53BMS	05/16/11	05/16/11
06	MW15042811 M	SU53BMSD	05/16/11	05/16/11
07	MW4042811	SU53C	05/16/11	05/16/11
08	MW17042811	SU53D	05/16/11	05/16/11
09	MW14042811	SU53E	05/16/11	05/16/11
10	MW16042811	SU53F	05/16/11	05/16/11

ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1

Sample ID: MB-050411

METHOD BLANK

Lab Sample ID: MB-050411

QC Report No: SU53-Floyd Snider

LIMS ID: 11-9622

Project: Lora Lake Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: *B*

Date Sampled: NA

Reported: 05/18/11

Date Received: NA

Date Extracted: 05/04/11

Sample Amount: 500 mL

Date Analyzed: 05/16/11 15:36

Final Extract Volume: 50 mL

Instrument/Analyst: ECD1/AAR

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	56.4%
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4
CHLOROPHENOL METHOD BLANK SUMMARY

SAMPLE NO.

SU73MBW1

Lab Name: ANALYTICAL RESOURCES, INC	Client: FLOYD SNIDER
ARI Job No.: SU73	Project: LORA LAKE PARCEL
Lab Sample ID: SU73MBW1	Lab File ID: 0516A022
Matrix (soil/water) LIQUID	Extraction: (SepF/Cont/Sonc) SW3510C
Sulfur Cleanup (Y/N) Y	Date Extracted: 05/05/11
Date Analyzed (1): 05/17/11	Date Analyzed (2): 05/17/11
Time Analyzed (1): 0041	Time Analyzed (2): 0041
Instrument ID (1): ECD1	Instrument ID (2): ECD1
GC Column (1): STX CLP1 ID: 0.53 (mm)	GC Column (2): STX CLP2 ID: 0.53 (mm)

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	=====	=====	=====	=====
01	SU73LCSW1	SU73LCSW1	05/17/11	05/17/11
02	MW-01-042911	SU73A	05/17/11	05/17/11
03	MW-01-042911	SU73B	05/17/11	05/17/11
04	MW-01-042911	SU73BMS	05/17/11	05/17/11
05	MW-01-042911	SU73BMSD	05/17/11	05/17/11
06	B312-042911	SU74A	05/17/11	05/17/11
07	B310-042911	SU74B	05/17/11	05/17/11
08	B311-042911	SU74C	05/17/11	05/17/11

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

Sample ID: MB-050511
METHOD BLANK

Lab Sample ID: MB-050511
 LIMS ID: 11-9772
 Matrix: Water
 Data Release Authorized: *AS*
 Reported: 05/18/11

QC Report No: SU74-Floyd Snider
 Project: Lora Lake Parcel
 POS-LL.4010
 Date Sampled: NA
 Date Received: NA

Date Extracted: 05/05/11
 Date Analyzed: 05/17/11 00:41
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	66.8%
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6D
 CHLOROPHENOL INITIAL CALIBRATION
 RETENTION TIME WINDOWS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SU53

Project: LORA LAKE APTS RI

GC Column: STX CLP1 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 05/04/11

COMPOUND	RT OF STANDARDS						MEAN RT	RT WINDOW	
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6		FROM	TO
Pentachlorophenol	21.00	21.00	21.00	21.00	21.00	21.00	21.00	20.93	21.07
2,4,6-Trichloropheno	13.10	13.10	13.10	13.10	13.10	13.10	13.10	13.03	13.17
2,3,6-Trichloropheno	14.10	14.10	14.10	14.10	14.10	14.10	14.10	14.03	14.17
2,4,5-Trichloropheno	15.85	15.85	15.85	15.84	15.85	15.85	15.84	15.78	15.91
2,3,4-Trichloropheno	17.36	17.35	17.35	17.35	17.35	17.35	17.35	17.28	17.42
2,3,5,6-Tetrachlorop	17.16	17.15	17.15	17.15	17.15	17.15	17.15	17.08	17.22
2,3,4,5-Tetrachlorop	20.16	20.16	20.16	20.15	20.15	20.16	20.16	20.08	20.22
2,4-Dichlorophenol	12.56	12.56	12.56	12.56	12.56	12.56	12.56	12.48	12.62
2,4,6-Tribromophenol	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.53	18.67

6D
 CHLOROPHENOL INITIAL CALIBRATION
 RETENTION TIME WINDOWS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SU53

Project: LORA LAKE APTS RI

GC Column: STX CLP2 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 05/04/11

COMPOUND	RT OF STANDARDS						MEAN RT	RT WINDOW	
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6		FROM	TO
Pentachlorophenol	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.90	23.04
2,4,6-Trichloropheno	14.31	14.31	14.31	14.31	14.31	14.31	14.31	14.24	14.38
2,3,6-Trichloropheno	15.56	15.56	15.56	15.56	15.56	15.56	15.56	15.49	15.63
2,4,5-Trichloropheno	17.48	17.47	17.47	17.47	17.47	17.47	17.47	17.40	17.54
2,3,4-Trichloropheno	19.03	19.02	19.02	19.02	19.02	19.02	19.02	18.95	19.09
2,3,5,6-Tetrachlorop	18.82	18.81	18.81	18.81	18.81	18.81	18.81	18.74	18.88
2,3,4,5-Tetrachlorop	22.08	22.08	22.08	22.08	22.08	22.08	22.08	22.01	22.15
2,4-Dichlorophenol	13.82	13.82	13.82	13.82	13.82	13.82	13.82	13.75	13.89
2,4,6-Tribromophenol	20.94	20.94	20.94	20.94	20.94	20.94	20.94	20.87	21.01

6E
 CHLOROPHENOL INITIAL CALIBRATION
 CALIBRATION FACTORS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SU53

Project: LORA LAKE APTS RI

GC Column: STX CLP1 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 05/04/11

COMPOUND	CALIBRATION FACTORS						R ² / %RSD	CT
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6		
Pentachlorophenol	24557	22356	20781	19124	17785	16292	15.1	A
2,4,6-Trichlorophenol	15281	13835	12795	11181	10412	9532	17.9	A
2,3,6-Trichlorophenol	14259	12818	11863	10765	9925	9085	16.7	A
2,4,5-Trichlorophenol	12140	8082	7421	6534	5905	5130	0.9996	Q
2,3,4-Trichlorophenol	10565	9519	8778	7811	7138	6322	18.8	A
2,3,5,6-Tetrachloroph	20194	18565	17499	16125	15182	13876	13.7	A
2,3,4,5-Tetrachloroph	16824	14772	13475	11938	10977	9904	19.7	A
2,4-Dichlorophenol	1040	896	796	655	559	482	0.9992	Q
2,4,6-Tribromophenol	18340	16896	15885	15230	14566	13549	10.8	A
AVE RSD							19.4	

CT stands for Curve Types:

- A Indicates an Average Response Factor Curve
- L Indicates a Linear Curve
- Q Indicates a Quadratic Curve

CALIBRATION FILES

LVL 1: /chem2/ecdl.i/PCP20110504.b/ical-1.b/0504A010.d
 LVL 2: /chem2/ecdl.i/PCP20110504.b/ical-1.b/0504A011.d
 LVL 3: /chem2/ecdl.i/PCP20110504.b/ical-1.b/0504A012.d
 LVL 4: /chem2/ecdl.i/PCP20110504.b/ical-1.b/0504A009.d
 LVL 5: /chem2/ecdl.i/PCP20110504.b/ical-1.b/0504A013.d
 LVL 6: /chem2/ecdl.i/PCP20110504.b/ical-1.b/0504A014.d

6E
 CHLOROPHENOL INITIAL CALIBRATION
 CALIBRATION FACTORS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SU53

Project: LORA LAKE APTS RI

GC Column: STX CLP2 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 05/04/11

COMPOUND	CALIBRATION FACTORS						R ² / %RSD	CT
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6		
Pentachlorophenol	35686	31408	28958	26156	24465	22293	17.4	A
2,4,6-Trichlorophenol	18173	16199	15364	13872	12302	11052	18.0	A
2,3,6-Trichlorophenol	17538	16304	15194	13812	12444	10948	17.1	A
2,4,5-Trichlorophenol	10375	9203	8375	7827	6888	5906	19.8	A
2,3,4-Trichlorophenol	13793	11382	10368	9080	8182	7194	0.9997	Q
2,3,5,6-Tetrachloroph	28198	24060	22545	20410	19063	17352	17.7	A
2,3,4,5-Tetrachloroph	21700	18848	16677	15352	13827	12342	0.9998	Q
2,4-Dichlorophenol	1124	962	835	702	594	505	0.9994	Q
2,4,6-Tribromophenol	26776	22121	21311	19850	18746	17341	15.7	A
AVE RSD							20.0	

CT stands for Curve Types:

- A Indicates an Average Response Factor Curve
- L Indicates a Linear Curve
- Q Indicates a Quadratic Curve

CALIBRATION FILES

- LVL 1: /chem2/ecdl.i/PCP20110504.b/ical-2.b/0504A010.d
- LVL 2: /chem2/ecdl.i/PCP20110504.b/ical-2.b/0504A011.d
- LVL 3: /chem2/ecdl.i/PCP20110504.b/ical-2.b/0504A012.d
- LVL 4: /chem2/ecdl.i/PCP20110504.b/ical-2.b/0504A009.d
- LVL 5: /chem2/ecdl.i/PCP20110504.b/ical-2.b/0504A013.d
- LVL 6: /chem2/ecdl.i/PCP20110504.b/ical-2.b/0504A014.d

7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SU53

Project: LORA LAKE APTS RI

GC Column: STX CLP1 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/16/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :1459

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	21.00	20.93	21.07	23.0	25.0	-8.0
2,4,6-Trichlorophenol	13.10	13.03	13.17	23.0	25.0	-8.0
2,3,6-Trichlorophenol	14.10	14.03	14.17	22.6	25.0	-9.6
2,4,5-Trichlorophenol	15.85	15.78	15.91	23.8	25.0	-4.8
2,3,4-Trichlorophenol	17.35	17.28	17.42	22.7	25.0	-9.2
2,3,5,6-Tetrachlorophenol	17.15	17.08	17.22	23.2	25.0	-7.2
2,3,4,5-Tetrachlorophenol	20.16	20.08	20.22	22.3	25.0	-10.8
2,4-Dichlorophenol	12.56	12.48	12.62	267	250	6.8
2,4,6-Tribromophenol (surr	18.60	18.53	18.67	22.8	25.0	-8.8

AVERAGE %D = 8.1

7E
CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SU53

Project: LORA LAKE APTS RI

GC Column: STX CLP2 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/16/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :1459

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	22.97	22.90	23.04	21.5	25.0	-14.0
2,4,6-Trichlorophenol	14.31	14.24	14.38	21.9	25.0	-12.4
2,3,6-Trichlorophenol	15.56	15.49	15.63	21.4	25.0	-14.4
2,4,5-Trichlorophenol	17.48	17.40	17.54	23.2	25.0	-7.2
2,3,4-Trichlorophenol	19.02	18.95	19.09	23.6	25.0	-5.6
2,3,5,6-Tetrachlorophenol	18.82	18.74	18.88	21.7	25.0	-13.2
2,3,4,5-Tetrachlorophenol	22.08	22.01	22.15	23.4	25.0	-6.4
2,4-Dichlorophenol	13.82	13.75	13.89	230	250	-8.0
2,4,6-Tribromophenol (surr	20.94	20.87	21.01	22.1	25.0	-11.6

AVERAGE %D = 10.3

7E
CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SU53

Project: LORA LAKE APTS RI

GC Column: STX CLP1 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/16/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :2027

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	21.00	20.93	21.07	23.1	25.0	-7.6
2,4,6-Trichlorophenol	13.10	13.03	13.17	23.1	25.0	-7.6
2,3,6-Trichlorophenol	14.10	14.03	14.17	22.7	25.0	-9.2
2,4,5-Trichlorophenol	15.85	15.78	15.91	24.2	25.0	-3.2
2,3,4-Trichlorophenol	17.36	17.28	17.42	23.0	25.0	-8.0
2,3,5,6-Tetrachlorophenol	17.16	17.08	17.22	23.5	25.0	-6.0
2,3,4,5-Tetrachlorophenol	20.16	20.08	20.22	22.2	25.0	-11.2
2,4-Dichlorophenol	12.56	12.48	12.62	269	250	7.6
2,4,6-Tribromophenol (surr	18.60	18.53	18.67	23.6	25.0	-5.6

AVERAGE %D = 7.3

7E
CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SU53

Project: LORA LAKE APTS RI

GC Column: STX CLP2 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No.(PCP):

Date Analyzed :05/16/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :2027

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	22.97	22.90	23.04	22.5	25.0	-10.0
2,4,6-Trichlorophenol	14.31	14.24	14.38	22.1	25.0	-11.6
2,3,6-Trichlorophenol	15.56	15.49	15.63	21.8	25.0	-12.8
2,4,5-Trichlorophenol	17.48	17.40	17.54	23.5	25.0	-6.0
2,3,4-Trichlorophenol	19.03	18.95	19.09	24.0	25.0	-4.0
2,3,5,6-Tetrachlorophenol	18.82	18.74	18.88	22.1	25.0	-11.6
2,3,4,5-Tetrachlorophenol	22.08	22.01	22.15	23.8	25.0	-4.8
2,4-Dichlorophenol	13.82	13.75	13.89	232	250	-7.2
2,4,6-Tribromophenol (surr	20.94	20.87	21.01	22.3	25.0	-10.8

AVERAGE %D = 8.8

7E
CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SU74

Project: LORA LAKE PARCEL

GC Column: STX CLP1 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No.(PCP):

Date Analyzed :05/16/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :2027

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	21.00	20.93	21.07	23.1	25.0	-7.6
2,4,6-Trichlorophenol	13.10	13.03	13.17	23.1	25.0	-7.6
2,3,6-Trichlorophenol	14.10	14.03	14.17	22.7	25.0	-9.2
2,4,5-Trichlorophenol	15.85	15.78	15.91	24.2	25.0	-3.2
2,3,4-Trichlorophenol	17.36	17.28	17.42	23.0	25.0	-8.0
2,3,5,6-Tetrachlorophenol	17.16	17.08	17.22	23.5	25.0	-6.0
2,3,4,5-Tetrachlorophenol	20.16	20.08	20.22	22.2	25.0	-11.2
2,4-Dichlorophenol	12.56	12.48	12.62	269	250	7.6
2,4,6-Tribromophenol (surr	18.60	18.53	18.67	23.6	25.0	-5.6

AVERAGE %D = 7.3

7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SU74

Project: LORA LAKE PARCEL

GC Column: STX CLP2 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/16/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :2027

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	22.97	22.90	23.04	22.5	25.0	-10.0
2,4,6-Trichlorophenol	14.31	14.24	14.38	22.1	25.0	-11.6
2,3,6-Trichlorophenol	15.56	15.49	15.63	21.8	25.0	-12.8
2,4,5-Trichlorophenol	17.48	17.40	17.54	23.5	25.0	-6.0
2,3,4-Trichlorophenol	19.03	18.95	19.09	24.0	25.0	-4.0
2,3,5,6-Tetrachlorophenol	18.82	18.74	18.88	22.1	25.0	-11.6
2,3,4,5-Tetrachlorophenol	22.08	22.01	22.15	23.8	25.0	-4.8
2,4-Dichlorophenol	13.82	13.75	13.89	232	250	-7.2
2,4,6-Tribromophenol (surr	20.94	20.87	21.01	22.3	25.0	-10.8

AVERAGE %D = 8.8

7E
CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SU53

Project: LORA LAKE APTS RI

GC Column: STX CLP1 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/17/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :0004

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	21.00	20.93	21.07	23.1	25.0	-7.6
2,4,6-Trichlorophenol	13.11	13.03	13.17	23.1	25.0	-7.6
2,3,6-Trichlorophenol	14.10	14.03	14.17	22.6	25.0	-9.6
2,4,5-Trichlorophenol	15.85	15.78	15.91	23.9	25.0	-4.4
2,3,4-Trichlorophenol	17.36	17.28	17.42	22.9	25.0	-8.4
2,3,5,6-Tetrachlorophenol	17.16	17.08	17.22	23.3	25.0	-6.8
2,3,4,5-Tetrachlorophenol	20.16	20.08	20.22	22.5	25.0	-10.0
2,4-Dichlorophenol	12.56	12.48	12.62	272	250	8.8
2,4,6-Tribromophenol (surr	18.60	18.53	18.67	23.6	25.0	-5.6

AVERAGE %D = 7.6

7E
CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SU53

Project: LORA LAKE APTS RI

GC Column: STX CLP2 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/17/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :0004

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	22.97	22.90	23.04	22.6	25.0	-9.6
2,4,6-Trichlorophenol	14.32	14.24	14.38	22.2	25.0	-11.2
2,3,6-Trichlorophenol	15.56	15.49	15.63	21.8	25.0	-12.8
2,4,5-Trichlorophenol	17.48	17.40	17.54	23.5	25.0	-6.0
2,3,4-Trichlorophenol	19.03	18.95	19.09	23.8	25.0	-4.8
2,3,5,6-Tetrachlorophenol	18.82	18.74	18.88	22.0	25.0	-12.0
2,3,4,5-Tetrachlorophenol	22.09	22.01	22.15	24.2	25.0	-3.2
2,4-Dichlorophenol	13.83	13.75	13.89	231	250	-7.6
2,4,6-Tribromophenol (surr	20.94	20.87	21.01	22.5	25.0	-10.0

AVERAGE %D = 8.6

7E
CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SU53

Project: LORA LAKE APTS RI

GC Column: STX CLP1 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No.(PCP):

Date Analyzed :05/17/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :0719

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	21.00	20.93	21.07	23.8	25.0	-4.8
2,4,6-Trichlorophenol	13.10	13.03	13.17	24.0	25.0	-4.0
2,3,6-Trichlorophenol	14.10	14.03	14.17	23.5	25.0	-6.0
2,4,5-Trichlorophenol	15.85	15.78	15.91	24.8	25.0	-0.8
2,3,4-Trichlorophenol	17.36	17.28	17.42	23.7	25.0	-5.2
2,3,5,6-Tetrachlorophenol	17.16	17.08	17.22	24.1	25.0	-3.6
2,3,4,5-Tetrachlorophenol	20.16	20.08	20.22	23.0	25.0	-8.0
2,4-Dichlorophenol	12.56	12.48	12.62	285	250	14.0
2,4,6-Tribromophenol (surr	18.60	18.53	18.67	24.3	25.0	-2.8

AVERAGE %D = 5.5

7E
CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: SU53

Project: LORA LAKE APTS RI

GC Column: STX CLP2 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/17/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :0719

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	22.97	22.90	23.04	23.2	25.0	-7.2
2,4,6-Trichlorophenol	14.32	14.24	14.38	23.1	25.0	-7.6
2,3,6-Trichlorophenol	15.56	15.49	15.63	22.6	25.0	-9.6
2,4,5-Trichlorophenol	17.48	17.40	17.54	24.4	25.0	-2.4
2,3,4-Trichlorophenol	19.03	18.95	19.09	24.8	25.0	-0.8
2,3,5,6-Tetrachlorophenol	18.82	18.74	18.88	22.8	25.0	-8.8
2,3,4,5-Tetrachlorophenol	22.08	22.01	22.15	24.5	25.0	-2.0
2,4-Dichlorophenol	13.82	13.75	13.89	242	250	-3.2
2,4,6-Tribromophenol (surr	20.94	20.87	21.01	23.2	25.0	-7.2

AVERAGE %D = 5.4

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER
 ARI Job No.: SU53 Project: LORA LAKE APTS RI
 GC Column: STX CLP1 ID: 0.53 (mm) Instrument ID: ECD1
 Init. Calib. Date(s): 05/04/11 05/04/11

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION S1 : 18.60					
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#
=====	=====	=====	=====	=====	=====
01	PCPD	05/04/11	1356	18.60	
02	PCPA	05/04/11	1432	18.60	
03	PCPB	05/04/11	1508	18.60	
04	PCPC	05/04/11	1544	18.60	
05	PCPE	05/04/11	1621	18.60	
06	PCPF	05/04/11	1657	18.60	
07	ZZZZZ	05/04/11	1733	18.60	
08	ZZZZZ	05/16/11	1246	----	
09	MW4042811	SU53C	1306	18.60	
10	ZZZZZ	ZZZZZ	1343	----	
11	ZZZZZ	ZZZZZ	1403	----	
12	ZZZZZ	ZZZZZ	1423	18.60	
13		PCP CCAL	1459	18.60	
14	SU53MBW1	SU53MBW1	1536	18.60	
15	SU53LCSW1	SU53LCSW1	1612	18.60	
16	ZZZZZ	ZZZZZ	1648	18.60	
17	MW5042811	SU53A	1725	18.60	
18	MW15042811	SU53B	1801	18.60	
19	MW15042811 M	SU53BMS	1837	18.60	
20	MW15042811 M	SU53BMSD	1914	18.60	
21	ZZZZZ	ZZZZZ	1950	18.60	
22		PCP CCAL	2027	18.60	
23	MW4042811	SU53C	2103	18.60	
24	MW17042811	SU53D	2139	18.60	
25	MW14042811	SU53E	2216	18.60	
26	MW16042811	SU53F	2252	18.60	
27	ZZZZZ	ZZZZZ	2328	18.60	
28		PCP CCAL	0004	18.60	
29	ZZZZZ	ZZZZZ	0041	18.60	
30	ZZZZZ	ZZZZZ	0117	18.60	
31	ZZZZZ	ZZZZZ	0153	18.60	
32	ZZZZZ	ZZZZZ	0229	18.60	

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

* Values outside of QC limits.

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER
 ARI Job No.: SU53 Project: LORA LAKE APTS RI
 GC Column: STX CLP1 ID: 0.53 (mm) Instrument ID: ECD1
 Init. Calib. Date(s): 05/04/11 05/04/11

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 18.60					
	CLIENT	LAB	DATE	TIME	S1
	SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT #
	=====	=====	=====	=====	=====
01	ZZZZZ	ZZZZZ	05/17/11	0306	18.60
02	ZZZZZ	ZZZZZ	05/17/11	0342	18.60
03	ZZZZZ	ZZZZZ	05/17/11	0418	18.60
04	ZZZZZ	ZZZZZ	05/17/11	0454	18.61
05	ZZZZZ	ZZZZZ	05/17/11	0531	18.60
06	ZZZZZ	ZZZZZ	05/17/11	0607	18.60
07	ZZZZZ	ZZZZZ	05/17/11	0643	18.60
08		PCP CCAL	05/17/11	0719	18.60

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

* Values outside of QC limits.

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER
 ARI Job No.: SU53 Project: LORA LAKE APTS RI
 GC Column: STX CLP2 ID: 0.53 (mm) Instrument ID: ECD1
 Init. Calib. Date(s): 05/04/11 05/04/11

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION S1 : 20.94					
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT	#
=====	=====	=====	=====	=====	=====
01	PCPD	05/04/11	1356	20.94	
02	PCPA	05/04/11	1432	20.94	
03	PCPB	05/04/11	1508	20.94	
04	PCPC	05/04/11	1544	20.94	
05	PCPE	05/04/11	1621	20.94	
06	PCPF	05/04/11	1657	20.94	
07	ZZZZZ	05/04/11	1733	20.94	
08	ZZZZZ	05/16/11	1246	----	
09	MW4042811	SU53C	05/16/11	1306	20.94
10	ZZZZZ	ZZZZZ	05/16/11	1343	----
11	ZZZZZ	ZZZZZ	05/16/11	1403	----
12	ZZZZZ	ZZZZZ	05/16/11	1423	20.94
13		PCP CCAL	05/16/11	1459	20.94
14	SU53MBW1	SU53MBW1	05/16/11	1536	20.94
15	SU53LCSW1	SU53LCSW1	05/16/11	1612	20.94
16	ZZZZZ	ZZZZZ	05/16/11	1648	20.94
17	MW5042811	SU53A	05/16/11	1725	20.94
18	MW15042811	SU53B	05/16/11	1801	20.94
19	MW15042811 M	SU53BMS	05/16/11	1837	20.94
20	MW15042811 M	SU53BMSD	05/16/11	1914	20.94
21	ZZZZZ	ZZZZZ	05/16/11	1950	20.94
22		PCP CCAL	05/16/11	2027	20.94
23	MW4042811	SU53C	05/16/11	2103	20.94
24	MW17042811	SU53D	05/16/11	2139	20.94
25	MW14042811	SU53E	05/16/11	2216	20.94
26	MW16042811	SU53F	05/16/11	2252	20.94
27	ZZZZZ	ZZZZZ	05/16/11	2328	20.94
28		PCP CCAL	05/17/11	0004	20.94
29	ZZZZZ	ZZZZZ	05/17/11	0041	20.94
30	ZZZZZ	ZZZZZ	05/17/11	0117	20.94
31	ZZZZZ	ZZZZZ	05/17/11	0153	20.94
32	ZZZZZ	ZZZZZ	05/17/11	0229	20.94

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

* Values outside of QC limits.

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER
 ARI Job No.: SU53 Project: LORA LAKE APTS RI
 GC Column: STX CLP2 ID: 0.53 (mm) Instrument ID: ECD1
 Init. Calib. Date(s): 05/04/11 05/04/11

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 20.94					
	CLIENT	LAB	DATE	TIME	S1
	SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT #
	=====	=====	=====	=====	=====
01	ZZZZZ	ZZZZZ	05/17/11	0306	20.94
02	ZZZZZ	ZZZZZ	05/17/11	0342	20.94
03	ZZZZZ	ZZZZZ	05/17/11	0418	20.94
04	ZZZZZ	ZZZZZ	05/17/11	0454	20.95
05	ZZZZZ	ZZZZZ	05/17/11	0531	20.94
06	ZZZZZ	ZZZZZ	05/17/11	0607	20.94
07	ZZZZZ	ZZZZZ	05/17/11	0643	20.94
08		PCP CCAL	05/17/11	0719	20.94

QC LIMITS

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

* Values outside of QC limits.

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER
 ARI Job No.: SU73 Project: LORA LAKE PARCEL
 GC Column: STX CLP1 ID: 0.53 (mm) Instrument ID: ECD1
 Init. Calib. Date(s): 05/04/11 05/04/11

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION S1 : 18.60					
CLIENT	LAB	DATE	TIME	S1	#
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	
=====	=====	=====	=====	=====	=====
01	PCPD	05/04/11	1356	18.60	
02	PCPA	05/04/11	1432	18.60	
03	PCPB	05/04/11	1508	18.60	
04	PCPC	05/04/11	1544	18.60	
05	PCPE	05/04/11	1621	18.60	
06	PCPF	05/04/11	1657	18.60	
07	ZZZZZ	05/04/11	1733	18.60	
08	ZZZZZ	05/16/11	1246	----	
09	ZZZZZ	05/16/11	1306	18.60	
10	ZZZZZ	05/16/11	1343	----	
11	ZZZZZ	05/16/11	1403	----	
12	ZZZZZ	05/16/11	1423	18.60	
13	PCP CCAL	05/16/11	1459	18.60	
14	ZZZZZ	05/16/11	1536	18.60	
15	ZZZZZ	05/16/11	1612	18.60	
16	ZZZZZ	05/16/11	1648	18.60	
17	ZZZZZ	05/16/11	1725	18.60	
18	ZZZZZ	05/16/11	1801	18.60	
19	ZZZZZ	05/16/11	1837	18.60	
20	ZZZZZ	05/16/11	1914	18.60	
21	ZZZZZ	05/16/11	1950	18.60	
22	PCP CCAL	05/16/11	2027	18.60	
23	ZZZZZ	05/16/11	2103	18.60	
24	ZZZZZ	05/16/11	2139	18.60	
25	ZZZZZ	05/16/11	2216	18.60	
26	ZZZZZ	05/16/11	2252	18.60	
27	ZZZZZ	05/16/11	2328	18.60	
28	PCP CCAL	05/17/11	0004	18.60	
29	SU73MBW1	05/17/11	0041	18.60	
30	SU73LCSW1	05/17/11	0117	18.60	
31	ZZZZZ	05/17/11	0153	18.60	
32	MW-01-042911	05/17/11	0229	18.60	

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

* Values outside of QC limits.

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER
 ARI Job No.: SU73 Project: LORA LAKE PARCEL
 GC Column: STX CLP1 ID: 0.53 (mm) Instrument ID: ECD1
 Init. Calib. Date(s): 05/04/11 05/04/11

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 18.60					
CLIENT	LAB	DATE	TIME	S1	
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	#
=====	=====	=====	=====	=====	=====
01 MW-01-042911	SU73B	05/17/11	0306	18.60	
02 MW-01-042911	SU73BMS	05/17/11	0342	18.60	
03 MW-01-042911	SU73BMSD	05/17/11	0418	18.60	
04 B312-042911	SU74A	05/17/11	0454	18.61	
05 B310-042911	SU74B	05/17/11	0531	18.60	
06 B311-042911	SU74C	05/17/11	0607	18.60	
07 ZZZZZ	ZZZZZ	05/17/11	0643	18.60	
08	PCP CCAL	05/17/11	0719	18.60	

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

* Values outside of QC limits.

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER
 ARI Job No.: SU73 Project: LORA LAKE PARCEL
 GC Column: STX CLP2 ID: 0.53 (mm) Instrument ID: ECD1
 Init. Calib. Date(s): 05/04/11 05/04/11

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 20.94					
CLIENT	LAB	DATE	TIME	S1	#
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	#
=====	=====	=====	=====	=====	=====
01	PCPD	05/04/11	1356	20.94	
02	PCPA	05/04/11	1432	20.94	
03	PCPB	05/04/11	1508	20.94	
04	PCPC	05/04/11	1544	20.94	
05	PCPE	05/04/11	1621	20.94	
06	PCPF	05/04/11	1657	20.94	
07	ZZZZZ	05/04/11	1733	20.94	
08	ZZZZZ	05/16/11	1246	----	
09	ZZZZZ	05/16/11	1306	20.94	
10	ZZZZZ	05/16/11	1343	----	
11	ZZZZZ	05/16/11	1403	----	
12	ZZZZZ	05/16/11	1423	20.94	
13	PCP CCAL	05/16/11	1459	20.94	
14	ZZZZZ	05/16/11	1536	20.94	
15	ZZZZZ	05/16/11	1612	20.94	
16	ZZZZZ	05/16/11	1648	20.94	
17	ZZZZZ	05/16/11	1725	20.94	
18	ZZZZZ	05/16/11	1801	20.94	
19	ZZZZZ	05/16/11	1837	20.94	
20	ZZZZZ	05/16/11	1914	20.94	
21	ZZZZZ	05/16/11	1950	20.94	
22	PCP CCAL	05/16/11	2027	20.94	
23	ZZZZZ	05/16/11	2103	20.94	
24	ZZZZZ	05/16/11	2139	20.94	
25	ZZZZZ	05/16/11	2216	20.94	
26	ZZZZZ	05/16/11	2252	20.94	
27	ZZZZZ	05/16/11	2328	20.94	
28	PCP CCAL	05/17/11	0004	20.94	
29	SU73MBW1	05/17/11	0041	20.94	
30	SU73LCSW1	05/17/11	0117	20.94	
31	ZZZZZ	05/17/11	0153	20.94	
32	MW-01-042911	05/17/11	0229	20.94	

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

* Values outside of QC limits.

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER
 ARI Job No.: SU73 Project: LORA LAKE PARCEL
 GC Column: STX CLP2 ID: 0.53 (mm) Instrument ID: ECD1
 Init. Calib. Date(s): 05/04/11 05/04/11

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

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 20.94					
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #
	=====	=====	=====	=====	=====
01	MW-01-042911	SU73B	05/17/11	0306	20.94
02	MW-01-042911	SU73BMS	05/17/11	0342	20.94
03	MW-01-042911	SU73BMSD	05/17/11	0418	20.94
04	B312-042911	SU74A	05/17/11	0454	20.95
05	B310-042911	SU74B	05/17/11	0531	20.94
06	B311-042911	SU74C	05/17/11	0607	20.94
07	ZZZZZ	ZZZZZ	05/17/11	0643	20.94
08		PCP CCAL	05/17/11	0719	20.94

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

* Values outside of QC limits.


**TPHD Analysis
Report and Summary QC Forms**

ARI Job ID: SU53, SU73, SU74

**ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS**

NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1
Matrix: Groundwater

QC Report No: SU53-Floyd Snider
Project: Lora Lake Apts RI
POS-LLA

Data Release Authorized: 
Reported: 05/09/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-050411 11-9621	Method Blank HC ID: ---	05/04/11	05/05/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 91.1%
SU53A 11-9621	MW5042811 HC ID: ---	05/04/11	05/05/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 88.0%
SU53B 11-9622	MW15042811 HC ID: ---	05/04/11	05/05/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 94.0%
SU53C 11-9623	MW4042811 HC ID: ---	05/04/11	05/05/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 90.8%
SU53D 11-9624	MW17042811 HC ID: ---	05/04/11	05/05/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 81.9%
SU53E 11-9625	MW14042811 HC ID: ---	05/04/11	05/05/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 90.2%
SU53F 11-9626	MW16042811 HC ID: ---	05/04/11	05/05/11 FID9	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 95.0%

Reported in mg/L (ppm)

EFV-Effective Final Volume in mL.

DL-Dilution of extract prior to analysis.

RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.

Motor Oil quantitation on total peaks in the range from C24 to C38.


HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

ORGANICS ANALYSIS DATA SHEET

TOTAL DIESEL RANGE HYDROCARBONS

NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1
Matrix: Water

QC Report No: SU73-Floyd Snider
Project: Lora Lake Apts RI
POS-LLA.4010

Data Release Authorized: 
Reported: 05/12/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-050511 11-9762	Method Blank HC ID: ---	05/05/11	05/10/11 FID9	1.00 1.0	Diesel	0.10	< 0.10 U
					Motor Oil	0.20	< 0.20 U
					o-Terphenyl		79.2%
SU73A 11-9762	MW-01-042911 HC ID: ---	05/05/11	05/10/11 FID9	1.00 1.0	Diesel	0.10	< 0.10 U
					Motor Oil	0.20	< 0.20 U
					o-Terphenyl		80.5%
SU73B 11-9763	MW-01-042911-D HC ID: ---	05/05/11	05/10/11 FID9	1.00 1.0	Diesel	0.10	< 0.10 U
					Motor Oil	0.20	< 0.20 U
					o-Terphenyl		75.9%

Reported in mg/L (ppm)


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

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

**ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS**

NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1
Matrix: Water

QC Report No: SU74-Floyd Snider
Project: Lora Lake Parcel
POS-LL.4010

Data Release Authorized: 
Reported: 05/12/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
MB-050511 11-9772	Method Blank HC ID: ---	05/05/11	05/10/11 FID9	1.00 1.0	Diesel	0.10	< 0.10 U
					Motor Oil	0.20	< 0.20 U
					o-Terphenyl		79.2%
SU74A 11-9772	B312-042911 HC ID: ---	05/05/11	05/10/11 FID9	1.00 1.0	Diesel	0.10	< 0.10 U
					Motor Oil	0.20	< 0.20 U
					o-Terphenyl		50.1%
SU74B 11-9773	B310-042911 HC ID: ---	05/05/11	05/10/11 FID9	1.00 1.0	Diesel	0.10	< 0.10 U
					Motor Oil	0.20	< 0.20 U
					o-Terphenyl		75.1%
SU74C 11-9774	B311-042911 HC ID: ---	05/05/11	05/10/11 FID9	1.00 1.0	Diesel	0.10	< 0.10 U
					Motor Oil	0.20	< 0.20 U
					o-Terphenyl		79.0%

Reported in mg/L (ppm)

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

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

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SU73-Floyd Snider
Project: Lora Lake Apts RI
POS-LLA.4010

<u>Client ID</u>	<u>OTER</u>	<u>TOT OUT</u>
MB-050511	79.2%	0
LCS-050511	76.0%	0
MW-01-042911	80.5%	0
MW-01-042911 MS	82.7%	0
MW-01-042911 MSD	74.2%	0
MW-01-042911-D	75.9%	0

LCS/MB LIMITS QCLIMITS

(OTER) = o-Terphenyl

(53-123)

(49-118)

Prep Method: SW3510C
Log Number Range: 11-9762 to 11-9763

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Groundwater

QC Report No: SU53-Floyd Snider
Project: Lora Lake Apts RI
POS-LLA

<u>Client ID</u>	<u>OTER</u>	<u>TOT OUT</u>
MB-050411	91.1%	0
LCS-050411	92.9%	0
MW5042811	88.0%	0
MW5042811 MS	84.9%	0
MW5042811 MSD	88.0%	0
MW15042811	94.0%	0
MW4042811	90.8%	0
MW17042811	81.9%	0
MW14042811	90.2%	0
MW16042811	95.0%	0

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl

(53-123)

(49-118)

Prep Method: SW3510C
Log Number Range: 11-9621 to 11-9626

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SU74-Floyd Snider
Project: Lora Lake Parcel
POS-LL.4010

<u>Client ID</u>	<u>OTER</u>	<u>TOT OUT</u>
MB-050511	79.2%	0
LCS-050511	76.0%	0
B312-042911	50.1%	0
B310-042911	75.1%	0
B311-042911	79.0%	0

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl

(53-123)

(49-118)

Prep Method: SW3510C
Log Number Range: 11-9772 to 11-9774

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID-Silica and Acid Cleaned

Sample ID: MW5042811

Page 1 of 1

MS/MSD

Lab Sample ID: SU53A

QC Report No: SU53-Floyd Snider

LIMS ID: 11-9621

Project: Lora Lake Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: *[Signature]*

Date Sampled: 04/28/11

Reported: 05/09/11

Date Received: 04/28/11

Date Extracted MS/MSD: 05/04/11

Sample Amount MS: 500 mL

MSD: 500 mL

Date Analyzed MS: 05/05/11 18:42

Final Extract Volume MS: 1.0 mL

MSD: 05/05/11 19:03

MSD: 1.0 mL

Instrument/Analyst MS: FID/MS

Dilution Factor MS: 1.00

MSD: FID/MS

MSD: 1.00

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	< 0.10	2.71	3.00	90.3%	2.62	3.00	87.3%	3.4%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	84.9%	88.0%

Results reported in mg/L

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned
 Page 1 of 1

Sample ID: MW-01-042911
 MS/MSD

Lab Sample ID: SU73A
 LIMS ID: 11-9762
 Matrix: Water
 Data Release Authorized: *RB*
 Reported: 05/12/11

QC Report No: SU73-Floyd Snider
 Project: Lora Lake Apts RI
 POS-LLA.4010
 Date Sampled: 04/29/11
 Date Received: 04/29/11

Date Extracted MS/MSD: 05/05/11
 Date Analyzed MS: 05/10/11 19:58
 MSD: 05/10/11 20:20
 Instrument/Analyst MS: FID/MS
 MSD: FID/MS

Sample Amount MS: 500 mL
 MSD: 500 mL
 Final Extract Volume MS: 1.0 mL
 MSD: 1.0 mL
 Dilution Factor MS: 1.00
 MSD: 1.00

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	< 0.10	2.39	3.00	79.7%	2.31	3.00	77.0%	3.4%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	82.7%	74.2%

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

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned
 Page 1 of 1

Sample ID: LCS-050411
LAB CONTROL

Lab Sample ID: LCS-050411
 LIMS ID: 11-9621
 Matrix: Groundwater
 Data Release Authorized: *[Signature]*
 Reported: 05/09/11

QC Report No: SU53-Floyd Snider
 Project: Lora Lake Apts RI
 POS-LLA
 Date Sampled: 04/28/11
 Date Received: 04/28/11

Date Extracted: 05/04/11
 Date Analyzed: 05/05/11 17:36
 Instrument/Analyst: FID/MS

Sample Amount: 500 mL
 Final Extract Volume: 1.0 mL
 Dilution Factor: 1.00

Range	Lab Control	Spike Added	Recovery
Diesel	2.72	3.00	90.7%

TPHD Surrogate Recovery

o-Terphenyl	92.9%
-------------	-------

Results reported in mg/L

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID-Silica and Acid Cleaned

Page 1 of 1


Sample ID: LCS-050511

LAB CONTROL

Lab Sample ID: LCS-050511

LIMS ID: 11-9762

Matrix: Water

Data Release Authorized: 

Reported: 05/12/11

QC Report No: SU73-Floyd Snider

Project: Lora Lake Apts RI

POS-LLA.4010

Date Sampled: 04/29/11

Date Received: 04/29/11

Date Extracted: 05/05/11

Date Analyzed: 05/10/11 18:52

Instrument/Analyst: FID/MS

Sample Amount: 500 mL

Final Extract Volume: 1.0 mL

Dilution Factor: 1.00

Range	Lab Control	Spike Added	Recovery
Diesel	2.23	3.00	74.3%

TPHD Surrogate Recovery

o-Terphenyl	76.0%
-------------	-------

Results reported in mg/L

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

Matrix: Groundwater
Date Received: 04/28/11

ARI Job: SU53
Project: Lora Lake Apts RI
POS-LLA

ARI ID	Client ID	Samp Amt	Final Vol	Prep Date
11-9621-050411MB1	Method Blank	500 mL	1.00 mL	05/04/11
11-9621-050411LCS1	Lab Control	500 mL	1.00 mL	05/04/11
11-9621-SU53A	MW5042811	500 mL	1.00 mL	05/04/11
11-9621-SU53AMS	MW5042811	500 mL	1.00 mL	05/04/11
11-9621-SU53AMSD	MW5042811	500 mL	1.00 mL	05/04/11
11-9622-SU53B	MW15042811	500 mL	1.00 mL	05/04/11
11-9623-SU53C	MW4042811	500 mL	1.00 mL	05/04/11
11-9624-SU53D	MW17042811	500 mL	1.00 mL	05/04/11
11-9625-SU53E	MW14042811	500 mL	1.00 mL	05/04/11
11-9626-SU53F	MW16042811	500 mL	1.00 mL	05/04/11

Diesel Extraction Report

SU53:00164

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

Matrix: Water
Date Received: 04/29/11

ARI Job: SU73
Project: Lora Lake Apts RI
POS-LLA.4010

ARI ID	Client ID	Samp Amt	Final Vol	Prep Date
11-9762-050511MB1	Method Blank	500 mL	1.00 mL	05/05/11
11-9762-050511LCS1	Lab Control	500 mL	1.00 mL	05/05/11
11-9762-SU73A	MW-01-042911	500 mL	1.00 mL	05/05/11
11-9762-SU73AMS	MW-01-042911	500 mL	1.00 mL	05/05/11
11-9762-SU73AMSD	MW-01-042911	500 mL	1.00 mL	05/05/11
11-9763-SU73B	MW-01-042911-D	500 mL	1.00 mL	05/05/11

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

Matrix: Water
Date Received: 04/29/11

ARI Job: SU74
Project: Lora Lake Parcel
POS-LL.4010

<u>ARI ID</u>	<u>Client ID</u>	<u>Samp Amt</u>	<u>Final Vol</u>	<u>Prep Date</u>
11-9772-050511MB1	Method Blank	500 mL	1.00 mL	05/05/11
11-9772-050511LCS1	Lab Control	500 mL	1.00 mL	05/05/11
11-9772-SU74A	B312-042911	500 mL	1.00 mL	05/05/11
11-9773-SU74B	B310-042911	500 mL	1.00 mL	05/05/11
11-9774-SU74C	B311-042911	500 mL	1.00 mL	05/05/11

4
TPH METHOD BLANK SUMMARY

BLANK NO.

SU53MBW1

Lab Name: ANALYTICAL RESOURCES, INC
 SDG No.: SU53
 Date Extracted: 05/04/11
 Date Analyzed : 05/05/11
 Time Analyzed : 1715

Client: FLOYD SNIDER
 Project No.: LORA LAKES APTS. RI
 Matrix: LIQUID
 Instrument ID : FID9

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
	=====	=====	=====
01	SU53LCSW1	SU53LCSW1	05/05/11
02	MW5042811	SU53A	05/05/11
03	MW5042811 MS	SU53AMS	05/05/11
04	MW5042811 MS	SU53AMSD	05/05/11
05	MW15042811	SU53B	05/05/11
06	MW4042811	SU53C	05/05/11
07	MW17042811	SU53D	05/05/11
08	MW14042811	SU53E	05/05/11
09	MW16042811	SU53F	05/05/11
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11			
12			
13			
14			
15			
16			
17			
18			
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4
TPH METHOD BLANK SUMMARY

BLANK NO.

SU73MBW1

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

SDG No.: SU73,SU74

Project No.: LORA LAKES

Date Extracted: 05/05/11

Matrix: LIQUID

Date Analyzed : 05/10/11

Instrument ID : FID9

Time Analyzed : 1830

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
	=====	=====	=====
01	SU73LCSW1	SU73LCSW1	05/10/11
02	MW-01-042911	SU73A	05/10/11
03	MW-01-042911	SU73AMS	05/10/11
04	MW-01-042911	SU73AMSD	05/10/11
05	MW-01-042911	SU73B	05/10/11
06	B312-042911	SU74A	05/10/11
07	B310-042911	SU74B	05/10/11
08	B311-042911	SU74C	05/10/11
09			
10			
11			
12			
13			
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15			
16			
17			
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20			
21			
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6a
NW DIESEL INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD SNIDER

Instrument: FID9.I

Project: LORA LAKES APTS. RI

Calibration Date: 20-JAN-2011

SDG No.: SU53

Diesel Range	RF1 50	RF2 100	RF3 250	RF4 500	RF5 1000	RF6 2500	Ave RF	%RSD
WA Diesel	24039	22507	22451	22137	23038	21746	22653	3.5
AK Diesel	27229	25485	25276	24857	25838	24470	25526	3.8
OR Diesel	27318	25588	25386	24978	25964	24607	25641	3.7
o-Terph	21882	20885	21247	21247	21987	21255	21417	2.0

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

Quant Ranges : WA Diesel C12-C24 (2.623-5.324)
 AK Diesel C10-C25 (1.988-5.548)
 OR Diesel C10-C28 (1.988-6.104)

Calibration Files Analysis Time

0120A007.D	20-JAN-2011 16:13
0120A008.D	20-JAN-2011 16:34
0120A009.D	20-JAN-2011 16:56
0120A010.D	20-JAN-2011 17:17
0120A011.D	20-JAN-2011 17:39
0120A014.D	20-JAN-2011 18:43

6a
NW MOTOR OIL RANGE INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.
Instrument: FID9.I
Calibration Date: 20-JAN-2011

Client: FLOYD SNIDER
Project: LORA LAKES APTS. RI
SDG No.: SU53

Product Range	RF1 100	RF2 250	RF3 500	RF4 1000	RF5 2500	RF6 5000	Ave RF	%RSD
WA M.Oil C24-C38	11365	12494	12640	13320	13928	15835	13264	11.5
Triac Surr	14163	16198	16626	17913	19039	21819	17626	14.9

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

Calibration Files Analysis Time

0120A015.D	20-JAN-2011 19:04
0120A016.D	20-JAN-2011 19:26
0120A017.D	20-JAN-2011 19:47
0120A018.D	20-JAN-2011 20:08
0120A019.D	20-JAN-2011 20:30
0120A020.D	20-JAN-2011 20:51

7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD SNIDER

ICal Date: 20-JAN-2011

Project: LORA LAKES APT. RI

CCal Date: 05-MAY-2011

SDG No.: SU53

Analysis Time: 16:31

Lab ID: DIESEL#2

Instrument: FID9.I

Lab File Name: 0505A013.D

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies (C12-C24)	5690895	251.2	250	0.5
AK102 (C10-C25)	6337542	248.3	250	-0.7
Terphenyl	971488	45.4	45	0.8

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
 AK Diesel C10-C25

7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD SNIDER
 ICal Date: 20-JAN-2011 Project: LORA LAKES APT. RI
 CCal Date: 05-MAY-2011 SDG No.: SU53
 Analysis Time: 16:53 Lab ID: MOIL#2
 Instrument: FID9.I Lab File Name: 0505A014.D

M.oil Range	Area*	CalcAmnt	NomAmnt	% D	
WAMoil (C24-C38)	6546657	493.6	500	-1.3	
AK103 (C25-C36)	5938010	698.7	500	39.7	<-
n-Triacontane	976210	55.4	45	23.1	<-

* Surrogate areas are subtracted from range areas
 <- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
 AK M.Oil C25-C36

7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD SNIDER

ICal Date: 20-JAN-2011

Project: LORA LAKES APT. RI

CCal Date: 05-MAY-2011

SDG No.: SU53

Analysis Time: 21:14

Lab ID: DIESEL#3

Instrument: FID9.I

Lab File Name: 0505A026.D

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies (C12-C24)	5858139	258.6	250	3.4
AK102 (C10-C25)	6529881	255.8	250	2.3
Terphenyl	995507	46.5	45	3.3

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
 AK Diesel C10-C25

7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD SNIDER
 ICal Date: 20-JAN-2011 Project: LORA LAKES APT. RI
 CCal Date: 05-MAY-2011 SDG No.: SU53
 Analysis Time: 21:35 Lab ID: MOIL#3
 Instrument: FID9.I Lab File Name: 0505A027.D

M.oil Range	Area*	CalcAmnt	NomAmnt	% D	
WAMoil (C24-C38)	6640060	500.6	500	0.1	
AK103 (C25-C36)	6035987	710.3	500	42.1	<-
n-Triacontane	1018277	57.8	45	28.4	<-

* Surrogate areas are subtracted from range areas
 <- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
 AK M.Oil C25-C36

7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD SNIDER
 ICal Date: 20-JAN-2011 Project: LORA LAKES
 CCal Date: 10-MAY-2011 SDG No.: SU73,SU74
 Analysis Time: 15:36 Lab ID: DIESEL#3
 Instrument: FID9.I Lab File Name: 0510A016.D

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies (C12-C24)	5657168	249.7	250	-0.1
AK102 (C10-C25)	6255450	245.1	250	-2.0
Terphenyl	971292	45.4	45	0.8

* Surrogate areas are subtracted from range areas
 <- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
 AK Diesel C10-C25

7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD SNIDER
 ICal Date: 20-JAN-2011 Project: LORA LAKES
 CCal Date: 10-MAY-2011 SDG No.: SU73,SU74
 Analysis Time: 15:58 Lab ID: MOIL#3
 Instrument: FID9.I Lab File Name: 0510A017.D

M.oil Range	Area*	CalcAmnt	NomAmnt	% D	
WAMoil (C24-C38)	6184273	466.3	500	-6.7	
AK103 (C25-C36)	5660369	666.1	500	33.2	<-
n-Triacontane	979156	55.6	45	23.4	<-

* Surrogate areas are subtracted from range areas
 <- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
 AK M.Oil C25-C36

7a
DIESEL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD SNIDER
ICal Date: 20-JAN-2011 Project: LORA LAKES
CCal Date: 10-MAY-2011 SDG No.: SU73,SU74
Analysis Time: 22:09 Lab ID: DIESEL#3
Instrument: FID9.I Lab File Name: 0510A031.D

Diesel Range	Area*	CalcAmnt	NomAmnt	% D
WADies (C12-C24)	5681320	250.8	250	0.3
AK102 (C10-C25)	6289982	246.4	250	-1.4
Terphenyl	972029	45.4	45	0.9

* Surrogate areas are subtracted from range areas
<- Indicates a %D outside QC limits

Quant Ranges : WA Diesel C12-C24
 AK Diesel C10-C25

7a
MOTOR OIL CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC. Client: FLOYD SNIDER
 ICal Date: 20-JAN-2011 Project: LORA LAKES
 CCal Date: 10-MAY-2011 SDG No.: SU73,SU74
 Analysis Time: 22:30 Lab ID: MOIL#3
 Instrument: FID9.I Lab File Name: 0510A032.D

M.oil Range	Area*	CalcAmnt	NomAmnt	% D	
WAMoil (C24-C38)	6494116	489.6	500	-2.1	
AK103 (C25-C36)	5907935	695.2	500	39.0	<-
n-Triacontane	992098	56.3	45	25.1	<-

* Surrogate areas are subtracted from range areas
 <- Indicates a %D outside QC limits

Quant Ranges : WA M.Oil C24-C38
 AK M.Oil C25-C36

8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

SDG No.: SU53

Project: LORA LAKES APTS. RI

Instrument ID: FID9

GC Column: RTX-1

Run Date: 05/05/11

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

SURROGATE RT FROM DAILY STANDARD						
		TERPH: 4.15	TRIAC: 6.41			
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #	
01	RT	05/05/11	1047	4.15	6.41	
02	IB	05/05/11	1109	4.15	6.41	
03	LORA LAKES A DIESEL#2	05/05/11	1631	4.16	6.40	
04	LORA LAKES A MOIL#2	05/05/11	1653	4.14	6.41	
05	SU53MBW1	05/05/11	1715	4.15	6.41	
06	SU53LCSW1	05/05/11	1736	4.16	6.41	
07	ZZZZZ	05/05/11	1758	4.16	6.41	
08	MW5042811	05/05/11	1820	4.15	6.41	
09	MW5042811 MS	05/05/11	1842	4.16	6.41	
10	MW5042811 MS	05/05/11	1903	4.16	6.41	
11	MW15042811	05/05/11	1925	4.15	6.41	
12	MW4042811	05/05/11	1947	4.15	6.41	
13	MW17042811	05/05/11	2009	4.16	6.41	
14	MW14042811	05/05/11	2030	4.15	6.41	
15	MW16042811	05/05/11	2052	4.16	6.41	
16	LORA LAKES A DIESEL#3	05/05/11	2114	4.16	6.41	
17	LORA LAKES A MOIL#3	05/05/11	2135	4.14	6.42	

QC LIMITS
 (+/- 0.05 MINUTES)
 (+/- 0.05 MINUTES)

* Values outside of QC limits.

8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

SDG No.: SU53

Project: LORA LAKES APTS. RI

Instrument ID: FID9

GC Column: RTX-1

Run Date: 01/20/11

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

SURROGATE RT FROM DAILY STANDARD						
		TERPH: 4.17		TRIAC: 6.42		
CLIENT	LAB	DATE	TIME	TERPH	TRIAC	
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	RT	#
=====	=====	=====	=====	=====	=====	=====
01	RT	01/20/11	1530	4.17	6.42	
02	IB	01/20/11	1552	4.17	6.42	
03	DIESEL 50	01/20/11	1613	4.16	6.41	
04	DIESEL 100	01/20/11	1634	4.16	6.41	
05	DIESEL 250	01/20/11	1656	4.17	6.41	
06	DIESEL 500	01/20/11	1717	4.18	6.42	
07	DIESEL 1000	01/20/11	1739	4.19	6.42	
08	DIESEL ICV	01/20/11	1822	4.17	6.41	
09	DIESEL 2500	01/20/11	1843	4.21	6.41	

TERPH = o-terph
TRIAC = Triacon Surr

QC LIMITS
(+/- 0.05 MINUTES)
(+/- 0.05 MINUTES)

* Values outside of QC limits.

8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER
 SDG No.: SU53 Project: LORA LAKES APTS. RI
 Instrument ID: FID9 GC Column: RTX-1
 Run Date: 01/20/11

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

SURROGATE RT FROM DAILY STANDARD						
		TERPH: 4.17		TRIAC: 6.42		
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #	
-----	-----	-----	-----	-----	-----	-----
01	RT	01/20/11	1530	4.17	6.42	
02	IB	01/20/11	1552	4.17	6.42	
03	MOIL 100	01/20/11	1904	4.17	6.41	
04	MOIL 250	01/20/11	1926	4.17	6.42	
05	MOIL 500	01/20/11	1947	4.17	6.42	
06	MOIL 1000	01/20/11	2008	4.17	6.44	
07	MOIL 2500	01/20/11	2030	4.17	6.46	
08	MOIL 5000	01/20/11	2051	4.17	6.50*	
09	MOIL ICV	01/20/11	2112	4.17	6.42	

TERPH = o-terph QC LIMITS
 TRIAC = Triacon Surr (+/- 0.05 MINUTES)
 (+/- 0.05 MINUTES)

* Values outside of QC limits.

*Peak shifting occurs when column plates are close to overloaded.
 Sample surrogates are spiked at 45ppm. n-Triacontane quants %14.9 RSD and
 meets 1cal criteria. No further corrective action needed.

8
TPH ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

SDG No.: SU73,SU74

Project: LORA LAKES

Instrument ID: FID9

GC Column: RTX-1

Run Date: 05/10/11

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

SURROGATE RT FROM DAILY STANDARD					
TERPH: 4.16		TRIAC: 6.42			
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TERPH RT #	TRIAC RT #
01	RT	05/10/11	1026	4.16	6.42
02	IB	05/10/11	1048	4.16	6.41
03	LORA LAKES DIESEL#3	05/10/11	1536	4.16	6.42
04	LORA LAKES MOIL#3	05/10/11	1558	4.17	6.42
05	ZZZZZ	05/10/11	1620	4.16	6.42
06	ZZZZZ	05/10/11	1642	4.16	6.41
07	ZZZZZ	05/10/11	1809	4.16	6.43
08	SU73MBW1	05/10/11	1830	4.16	6.41
09	SU73LCSW1	05/10/11	1852	4.16	6.41
10	ZZZZZ	05/10/11	1914	4.16	6.41
11	MW-01-042911 SU73A	05/10/11	1936	4.16	6.41
12	MW-01-042911 SU73AMS	05/10/11	1958	4.16	6.41
13	MW-01-042911 SU73AMSD	05/10/11	2020	4.16	6.41
14	MW-01-042911 SU73B	05/10/11	2041	4.16	6.41
15	B312-042911 SU74A	05/10/11	2103	4.15	6.41
16	B310-042911 SU74B	05/10/11	2125	4.16	6.41
17	B311-042911 SU74C	05/10/11	2147	4.16	6.41
18	LORA LAKES DIESEL#3	05/10/11	2209	4.16	6.42
19	LORA LAKES MOIL#3	05/10/11	2230	4.15	6.42

TERPH = o-terph (QC LIMITS +/- 0.05 MINUTES)
 TRIAC = Triacon Surr (QC LIMITS +/- 0.05 MINUTES)

* Values outside of QC limits.

**TPHG/BETX Analysis
Report and Summary QC Forms**

ARI Job ID: SU53, SU73, SU74

ORGANICS ANALYSIS DATA SHEET

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW06-042611

MATRIX SPIKE

Lab Sample ID: ST98D

LIMS ID: 11-9412

Matrix: Water

Data Release Authorized: *SB*

Reported: 05/09/11

QC Report No: ST98-Floyd Snider

Project: Lora Lake Apts RI

Event: POS-LLA T.4010

Date Sampled: 04/26/11

Date Received: 04/26/11

Date Analyzed MS: 05/06/11 10:57

MSD: 05/06/11 11:26

Instrument/Analyst MS: PID1/MH

MSD: PID1/MH

Purge Volume: 5.0 mL

Dilution Factor MS: 1.0

MSD: 1.0

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Gasoline Range Hydrocarbons	< 0.25 U	1.18	1.00	118%	1.18	1.00	118%	0.0%

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	MS	MSD
Trifluorotoluene	105%	103%
Bromobenzene	102%	102%

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

Page 1 of 1

Sample ID: MW06-042611

MATRIX SPIKE

Lab Sample ID: ST98D

LIMS ID: 11-9412

Matrix: Water

Data Release Authorized: *AS*

Reported: 05/09/11

QC Report No: ST98-Floyd Snider

Project: Lora Lake Apts RI

Event: POS-LLA T.4010

Date Sampled: 04/26/11

Date Received: 04/26/11

Date Analyzed MS: 05/06/11 10:57

MSD: 05/06/11 11:26

Instrument/Analyst MS: PID1/MH

MSD: PID1/MH

Purge Volume: 5.0 mL

Dilution Factor MS: 1.0

MSD: 1.0

Analyte	Sample	Spike		MS		Spike		MSD	
		MS	Added-MS	Recovery	MSD	Added-MSD	Recovery	RPD	
Benzene	< 1.00 U	3.11	3.70	84.1%	3.32	3.70	89.7%	6.5%	
Toluene	< 1.00 U	36.7	36.5	101%	36.1	36.5	98.9%	1.6%	
Ethylbenzene	1.13	11.9	10.7	101%	11.9	10.7	101%	0.0%	
m,p-Xylene	< 1.00 U	39.1	40.1	97.5%	38.7	40.1	96.5%	1.0%	
o-Xylene	< 1.00 U	17.9	18.1	98.9%	17.7	18.1	97.8%	1.1%	

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	MS	MSD
Trifluorotoluene	102%	100%
Bromobenzene	102%	101%

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW5042811

SAMPLE

Lab Sample ID: SU53A

LIMS ID: 11-9621

Matrix: Groundwater

Data Release Authorized: *[Signature]*

Reported: 05/09/11

QC Report No: SU53-Floyd Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: 04/28/11

Date Received: 04/28/11

Date Analyzed: 05/06/11 11:55

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	94.4%
Bromobenzene	96.4%

Gasoline Surrogate Recovery

Trifluorotoluene	97.0%
Bromobenzene	97.6%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW15042811

SAMPLE

Lab Sample ID: SU53B

LIMS ID: 11-9622

Matrix: Groundwater

Data Release Authorized: 

Reported: 05/09/11

QC Report No: SU53-Floyd Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: 04/28/11

Date Received: 04/28/11

Date Analyzed: 05/06/11 13:51

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID	---
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BETX Surrogate Recovery

Trifluorotoluene	96.4%
Bromobenzene	97.8%

Gasoline Surrogate Recovery

Trifluorotoluene	98.2%
Bromobenzene	99.0%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: MW4042811

SAMPLE

Lab Sample ID: SU53C

LIMS ID: 11-9623

Matrix: Groundwater

Data Release Authorized: *AS*

Reported: 05/09/11

QC Report No: SU53-Floyd Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: 04/28/11

Date Received: 04/28/11

Date Analyzed: 05/06/11 14:20

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	96.0%
Bromobenzene	97.4%

Gasoline Surrogate Recovery

Trifluorotoluene	98.2%
Bromobenzene	98.4%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021BMod

TPHG by Method NWTPHG

Page 1 of 1


Sample ID: MW17042811

SAMPLE

Lab Sample ID: SU53D

LIMS ID: 11-9624

Matrix: Groundwater

Data Release Authorized: 

Reported: 05/09/11

QC Report No: SU53-Floyd Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: 04/28/11

Date Received: 04/28/11

Date Analyzed: 05/06/11 14:49

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	95.3%
Bromobenzene	95.1%

Gasoline Surrogate Recovery

Trifluorotoluene	97.4%
Bromobenzene	96.2%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021EMod
TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MW14042811
SAMPLE

Lab Sample ID: SU53E
 LIMS ID: 11-9625
 Matrix: Groundwater
 Data Release Authorized: *RS*
 Reported: 05/09/11

QC Report No: SU53-Floyd Snider
 Project: Lora Lake Apts RI
 Event: POS-LLA
 Date Sampled: 04/28/11
 Date Received: 04/28/11

Date Analyzed: 05/06/11 15:18
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	93.7%
Bromobenzene	96.2%

Gasoline Surrogate Recovery

Trifluorotoluene	96.1%
Bromobenzene	98.2%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.
 Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

TPHG by Method NWTPHG

Page 1 of 1


Sample ID: MW16042811

SAMPLE

Lab Sample ID: SU53F

LIMS ID: 11-9626

Matrix: Groundwater

Data Release Authorized: 

Reported: 05/09/11

QC Report No: SU53-Floyd Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: 04/28/11

Date Received: 04/28/11

Date Analyzed: 05/06/11 15:47

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	95.2%
Bromobenzene	95.9%

Gasoline Surrogate Recovery

Trifluorotoluene	98.1%
Bromobenzene	97.1%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MW-01-042911
SAMPLE

Lab Sample ID: SU73A
 LIMS ID: 11-9762
 Matrix: Water
 Data Release Authorized: *[Signature]*
 Reported: 05/09/11

QC Report No: SU73-Floyd Snider
 Project: Lora Lake Apts RI
 Event: POS-LLA.4010
 Date Sampled: 04/29/11
 Date Received: 04/29/11

Date Analyzed: 05/06/11 16:16
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	2.5
179601-23-1	m,p-Xylene	1.0	1.8
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	0.38	GAS ID GRO
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BETX Surrogate Recovery

Trifluorotoluene	92.7%
Bromobenzene	94.5%

Gasoline Surrogate Recovery

Trifluorotoluene	95.8%
Bromobenzene	96.7%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021EMod
TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MW-01-042911-D
SAMPLE

Lab Sample ID: SU73B
 LIMS ID: 11-9763
 Matrix: Water
 Data Release Authorized: *[Signature]*
 Reported: 05/09/11

QC Report No: SU73-Floyd Snider
 Project: Lora Lake Apts RI
 Event: POS-LLA.4010
 Date Sampled: 04/29/11
 Date Received: 04/29/11

Date Analyzed: 05/06/11 16:45
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	2.5
179601-23-1	m,p-Xylene	1.0	1.8
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	0.40	GAS ID GRO
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BETX Surrogate Recovery

Trifluorotoluene	93.6%
Bromobenzene	96.5%

Gasoline Surrogate Recovery

Trifluorotoluene	96.6%
Bromobenzene	98.6%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021EMod
TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: B312-042911
SAMPLE

Lab Sample ID: SU74A
 LIMS ID: 11-9772
 Matrix: Water
 Data Release Authorized: *[Signature]*
 Reported: 05/09/11

QC Report No: SU74-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL.4010
 Date Sampled: 04/29/11
 Date Received: 04/29/11

Date Analyzed: 05/06/11 17:15
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	94.8%
Bromobenzene	97.3%

Gasoline Surrogate Recovery

Trifluorotoluene	97.3%
Bromobenzene	98.5%


BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021EMod
TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: B310-042911
SAMPLE

Lab Sample ID: SU74B
 LIMS ID: 11-9773
 Matrix: Water
 Data Release Authorized: 
 Reported: 05/09/11

QC Report No: SU74-Floyd Snider
 Project: Lora Lake Parcel
 Event: POS-LL.4010
 Date Sampled: 04/29/11
 Date Received: 04/29/11

Date Analyzed: 05/06/11 17:44
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	92.9%
Bromobenzene	96.1%

Gasoline Surrogate Recovery

Trifluorotoluene	96.2%
Bromobenzene	98.4%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: B311-042911

SAMPLE

Lab Sample ID: SU74C

LIMS ID: 11-9774

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 05/09/11

QC Report No: SU74-Floyd Snider

Project: Lora Lake Parcel

Event: POS-LL.4010

Date Sampled: 04/29/11

Date Received: 04/29/11

Date Analyzed: 05/06/11 18:13

Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
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BETX Surrogate Recovery

Trifluorotoluene	96.0%
Bromobenzene	96.1%

Gasoline Surrogate Recovery

Trifluorotoluene	97.8%
Bromobenzene	97.6%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.

GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: SU53
Matrix: Groundwater

QC Report No: SU53-Floyd Snider
Project: Lora Lake Apts RI
Event: POS-LLA

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT OUT</u>
MB-050611	96.2%	97.8%	0
LCS-050611	98.0%	95.9%	0
LCSD-050611	99.1%	97.2%	0
MW5042811	97.0%	97.6%	0
MW15042811	98.2%	99.0%	0
MW4042811	98.2%	98.4%	0
MW17042811	97.4%	96.2%	0
MW14042811	96.1%	98.2%	0
MW16042811	98.1%	97.1%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-120)	(80-120)
(BBZ) = Bromobenzene	(80-120)	(80-120)

Log Number Range: 11-9621 to 11-9626

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: SU73
Matrix: Water

QC Report No: SU73-Floyd Snider
Project: Lora Lake Apts RI
Event: POS-LLA.4010

Client ID	TFT	BBZ	TOT OUT
MB-050611	96.2%	97.8%	0
LCS-050611	98.0%	95.9%	0
LCSD-050611	99.1%	97.2%	0
MW-01-042911	95.8%	96.7%	0
MW-01-042911-D	96.6%	98.6%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-120)	(80-120)
(BBZ) = Bromobenzene	(80-120)	(80-120)

Log Number Range: 11-9762 to 11-9763

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: SU74
Matrix: Water

QC Report No: SU74-Floyd Snider
Project: Lora Lake Parcel
Event: POS-LL.4010

Client ID	TFT	BBZ	TOT OUT
MB-050611	96.2%	97.8%	0
LCS-050611	98.0%	95.9%	0
LCSD-050611	99.1%	97.2%	0
B312-042911	97.3%	98.5%	0
B310-042911	96.2%	98.4%	0
B311-042911	97.8%	97.6%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-120)	(80-120)
(BBZ) = Bromobenzene	(80-120)	(80-120)

Log Number Range: 11-9772 to 11-9774

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: SU53
Matrix: Groundwater

QC Report No: SU53-Floyd Snider
Project: Lora Lake Apts RI
Event: POS-LLA

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT OUT</u>
MB-050611	94.4%	96.9%	0
LCS-050611	94.6%	94.9%	0
LCSD-050611	95.8%	95.8%	0
MW5042811	94.4%	96.4%	0
MW15042811	96.4%	97.8%	0
MW4042811	96.0%	97.4%	0
MW17042811	95.3%	95.1%	0
MW14042811	93.7%	96.2%	0
MW16042811	95.2%	95.9%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(79-120)	(80-120)
(BBZ) = Bromobenzene	(79-120)	(80-120)

Log Number Range: 11-9621 to 11-9626

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: SU73
Matrix: Water

QC Report No: SU73-Floyd Snider
Project: Lora Lake Apts RI
Event: POS-LLA.4010

Client ID	TFT	BBZ	TOT OUT
MB-050611	94.4%	96.9%	0
LCS-050611	94.6%	94.9%	0
LCSD-050611	95.8%	95.8%	0
MW-01-042911	92.7%	94.5%	0
MW-01-042911-D	93.6%	96.5%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(79-120)	(80-120)
(BBZ) = Bromobenzene	(79-120)	(80-120)

Log Number Range: 11-9762 to 11-9763

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: SU74
Matrix: Water

QC Report No: SU74-Floyd Snider
Project: Lora Lake Parcel
Event: POS-LL.4010

<u>Client ID</u>	<u>TFT</u>	<u>BBZ</u>	<u>TOT OUT</u>
MB-050611	94.4%	96.9%	0
LCS-050611	94.6%	94.9%	0
LCS-050611	95.8%	95.8%	0
B312-042911	94.8%	97.3%	0
B310-042911	92.9%	96.1%	0
B311-042911	96.0%	96.1%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(79-120)	(80-120)
(BBZ) = Bromobenzene	(79-120)	(80-120)

Log Number Range: 11-9772 to 11-9774

ORGANICS ANALYSIS DATA SHEET

TPHG by Method NWTPHG

Page 1 of 1

Sample ID: LCS-050611

LAB CONTROL SAMPLE

Lab Sample ID: LCS-050611

LIMS ID: 11-9621

Matrix: Groundwater

Data Release Authorized: *AP*

Reported: 05/09/11

QC Report No: SU53-Floyd Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 05/06/11 07:11

LCSD: 05/06/11 07:41

Instrument/Analyst LCS: PID1/MH

LCSD: PID1/MH

Purge Volume: 5.0 mL

Dilution Factor LCS: 1.0

LCSD: 1.0

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	1.06	1.00	106%	0.98	1.00	98.0%	7.8%

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	98.0%	99.1%
Bromobenzene	95.9%	97.2%

ORGANICS ANALYSIS DATA SHEET

BETX by Method SW8021EMod

Page 1 of 1

Sample ID: LCS-050611

LAB CONTROL SAMPLE

Lab Sample ID: LCS-050611

LIMS ID: 11-9621

Matrix: Groundwater

Data Release Authorized: *AS*

Reported: 05/09/11

QC Report No: SU53-Floyd Snider

Project: Lora Lake Apts RI

Event: POS-LLA

Date Sampled: NA

Date Received: NA

Date Analyzed LCS: 05/06/11 07:11

Purge Volume: 5.0 mL

LCSD: 05/06/11 07:41

Instrument/Analyst LCS: PID1/MH

Dilution Factor LCS: 1.0

LCSD: PID1/MH

LCSD: 1.0

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	3.22	3.70	87.0%	3.06	3.70	82.7%	5.1%
Toluene	35.2	36.5	96.4%	33.6	36.5	92.1%	4.7%
Ethylbenzene	10.4	10.7	97.2%	9.99	10.7	93.4%	4.0%
m,p-Xylene	37.1	40.1	92.5%	35.6	40.1	88.8%	4.1%
o-Xylene	17.0	18.1	93.9%	16.4	18.1	90.6%	3.6%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	94.6%	95.8%
Bromobenzene	94.9%	95.8%

4
BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB0506S1

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

SDG No.: ST98-SU53-SU73-SU74

Project No.: LORA LAKE

Date Analyzed : 05/06/11

Matrix: WATER

Time Analyzed : 0810


Instrument ID : PID1

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
	=====	=====	=====
01	LCS0506S1	LCS0506	05/06/11
02	LCSD0506S1	LCSD0506	05/06/11
03	MW02-042611	ST98A	05/06/11
04	MW03-042611	ST98B	05/06/11
05	MW13-042611	ST98C	05/06/11
06	MW06-042611	ST98D	05/06/11
07	MW06-042611	ST98DMS	05/06/11
08	MW06-042611	ST98DMSD	05/06/11
09	MW5042811	SU53A	05/06/11
10	MW15042811	SU53B	05/06/11
11	MW4042811	SU53C	05/06/11
12	MW17042811	SU53D	05/06/11
13	MW14042811	SU53E	05/06/11
14	MW16042811	SU53F	05/06/11
15	MW-01-042911	SU73A	05/06/11
16	MW-01-042911	SU73B	05/06/11
17	B312-042911	SU74A	05/06/11
18	B310-042911	SU74B	05/06/11
19	B311-042911	SU74C	05/06/11
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021EMod
TPHG by Method NWTPHG
 Page 1 of 1

Sample ID: MB-050611
METHOD BLANK

Lab Sample ID: MB-050611
 LIMS ID: 11-9621
 Matrix: Groundwater
 Data Release Authorized: 
 Reported: 05/09/11

QC Report No: SU53-Floyd Snider
 Project: Lora Lake Apts RI
 Event: POS-LLA
 Date Sampled: NA
 Date Received: NA

Date Analyzed: 05/06/11 08:10
 Instrument/Analyst: PID1/MH

Purge Volume: 5.0 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
179601-23-1	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

Gasoline Range Hydrocarbons	0.25	< 0.25 U	GAS ID ---
-----------------------------	------	----------	---------------

BETX Surrogate Recovery

Trifluorotoluene	94.4%
Bromobenzene	96.9%

Gasoline Surrogate Recovery

Trifluorotoluene	96.2%
Bromobenzene	97.8%

BETX values reported in µg/L (ppb)
 Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
 GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

6a
GAS INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD SNIDER

Instrument/Det: PID1.I/RTX 502-2 FID

Project: LORA LAKE

Calibration Date: 05-MAY-2011

SDG No.: ST98-SU53-SU73-SU74

Gas Range	RF1 0.1	RF2 0.25	RF3 1.0	RF4 2.5	RF5 5.0	RF6 20	Ave RF	%RSD
WA Gas	336230	321660	304072	312797	319762	322507	319505	3.4
AK Gas	569160	524066	506656	500913	512756	551605	527526	5.1
NW Gas	365065	344296	323980	330156	336968	340039	340084	4.2
Cal Gas	683430	650156	625526	626200	638532	671902	649291	3.7
8015Gas	693780	652706	630988	626013	638038	671733	652210	4.0
\$TFT(Surr)	28.77273 25.11500	26.50000	25.56716	25.53000	25.92481	25.32022	26.10428	4.826
\$BB(Surr)	20.36364 18.39500	19.04545	18.50746	18.56000	18.72180	18.53933	18.87610	3.649

<- 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
 Cal Gas nC6 - nC12
 8015 Gas 2-Methylpentane - 1,2,4-Trimethylbenzene

Calibration Files Analysis Time

0505a014.d	05-MAY-2011 16:31
0505a015.d	05-MAY-2011 17:00
0505a016.d	05-MAY-2011 17:30
0505a017.d	05-MAY-2011 17:59
0505a018.d	05-MAY-2011 18:28
0505a019.d	05-MAY-2011 18:57

SURR Calibration Files Analysis Time

0505a005.d	05-MAY-2011 12:09
0505a006.d	05-MAY-2011 12:38
0505a007.d	05-MAY-2011 13:07
0505a008.d	05-MAY-2011 13:36
0505a009.d	05-MAY-2011 14:05
0505a010.d	05-MAY-2011 14:34
0505a011.d	05-MAY-2011 15:04

SU53:00209

6
BETX INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

SDG No.: VPCC0505-2

Project No.: LORA LAKE

Instrument/Det: PID1 /RTX 502-2 PID

Calibration Date: 05/05/11

COMPOUND	CALIBRATION FACTORS					MEAN	%RSD
	0.25	0.5	5	25	50		
Benzene	432	400	403	349	344		
Toluene	396	342	346	321	326		
Ethylbenzene	284	272	311	287	295		
M/P-Xylene	358	311	330	308	318		
O-Xylene	240	242	270	246	255		
MTBE	124	114	121	110	114		
TFT(Surr)	60	56	54	55	56		
BB(Surr)	123	117	115	116	120		

Calibration Files

```

/chem3/pid1.i/vpcc0505-2.b/0505a005.d
/chem3/pid1.i/vpcc0505-2.b/0505a006.d
/chem3/pid1.i/vpcc0505-2.b/0505a007.d
/chem3/pid1.i/vpcc0505-2.b/0505a008.d
/chem3/pid1.i/vpcc0505-2.b/0505a009.d
/chem3/pid1.i/vpcc0505-2.b/0505a010.d
/chem3/pid1.i/vpcc0505-2.b/0505a011.d

```

BETX INITIAL CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

SDG No.: VPCC0505-2

Project No.: LORA LAKE

Instrument/Det: PID1 /RTX 502-2 PID

Calibration Date: 05/05/11

COMPOUND	CALIBRATION FACTORS						
	100	200	MEAN	%RSD			
=====	=====	=====	=====	=====	=====	=====	=====
Benzene	337	340	372	10.37			
Toluene	324	326	340	7.78			
Ethylbenzene	291	294	290	4.13			
M/P-Xylene	317	315	322	5.31			
O-Xylene	254	258	252	4.16			
MTBE	111	113	115	4.58			
=====	=====	=====	=====	=====	=====	=====	=====
TFT (Surr)	55	55	56	3.81			
BB (Surr)	120	121	119	2.22			

BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

SDG No.: ST98-SU53-SU73-SU74

Project No.: LORA LAKE

Instrument/Det: PID1/RTX 502-2 PID

Calibration Date: 05/06/11

Init. Calib. Date(s): 05/05/11

Calib. File: 0506A002.D

COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Benzene	7.06	7.01	7.11	23.00	25.00	-8.0
Toluene	9.95	9.90	10.00	23.66	25.00	-5.4
Ethylbenzene	12.85	12.80	12.90	24.92	25.00	-0.3
M/P-Xylene	13.01	12.96	13.06	48.31	50.00	-3.4
O-Xylene	13.97	13.94	14.00	24.73	25.00	-1.1
MTBE	4.54	4.49	4.59	23.14	25.00	-7.4
TFT (Surr)	7.90	7.85	7.95	97.89	100.0	-2.1
BB (Surr)	15.45	15.40	15.50	98.97	100.0	-1.0

7a
GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD SNIDER

ICal Date: 05-MAY-2011

Project: LORA LAKE

CCal Date: 06-MAY-2011

SDG No.: ST98-SU53-SU73-SU74

Lab File Name: 0506a003.d

Inst/Det: PID1.I/RTX 502-2 FID

Gas Range	Area*	CalcAmnt	NomAmnt	%D
WAGas (Tol-C12)	836004	2.62	2.50	4.7
AKGas (C6-C10)	1354554	2.57	2.50	2.7
NWGas (Tol-Nap)	885484	2.60	2.50	4.1
8015B (2MP-TMB)	1687232	2.59	2.50	3.5

* Surrogate areas are subtracted from Total Area
<- Indicates an RPD outside QC limits

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD SNIDER

ICal Date: 05-MAY-2011

Project: LORA LAKE

CCal Date: 06-MAY-2011

SDG No.: ST98-SU53-SU73-SU74

Lab File Name: 0506a003.d

Inst/Det: PID1.I/RTX 502-2 FID

Surrogate	Area	CalcAmnt	NomAmnt	RPD
Trifluorotol	49638	109.5	100.0	9.5
Bromoflrbenz	17630	101.0	100.0	1.0

BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

SDG No.: ST98-SU53-SU73-SU74

Project No.: LORA LAKE

Instrument/Det: PID1/RTX 502-2 PID

Calibration Date: 05/06/11

Init. Calib. Date(s): 05/05/11

Calib. File: 0506A015.D

COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	%D
		FROM	TO			
=====	=====	=====	=====	=====	=====	=====
Benzene	7.06	7.01	7.11	23.17	25.00	-7.3
Toluene	9.95	9.90	10.00	23.18	25.00	-7.3
Ethylbenzene	12.85	12.80	12.90	24.13	25.00	-3.5
M/P-Xylene	13.01	12.96	13.06	46.99	50.00	-6.0
O-Xylene	13.97	13.94	14.00	24.25	25.00	-3.0
MTBE	4.54	4.49	4.59	22.54	25.00	-9.8
TFT (Surr)	7.91	7.85	7.95	93.51	100.0	-6.5
BB (Surr)	15.45	15.40	15.50	95.76	100.0	-4.2

7a
GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD SNIDER

ICal Date: 05-MAY-2011

Project: LORA LAKE

CCal Date: 06-MAY-2011

SDG No.: ST98-SU53-SU73-SU74

Lab File Name: 0506a016.d

Inst/Det: PID1.I/RTX 502-2 FID

Gas Range	Area*	CalcAmt	NomAmt	%D
WAGas (Tol-C12)	795463	2.49	2.50	-0.4
AKGas (C6-C10)	1295895	2.46	2.50	-1.7
NWGas (Tol-Nap)	837278	2.46	2.50	-1.5
8015B (2MP-TMB)	1612176	2.47	2.50	-1.1

* Surrogate areas are subtracted from Total Area
<- Indicates an RPD outside QC limits

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD SNIDER

ICal Date: 05-MAY-2011

Project: LORA LAKE

CCal Date: 06-MAY-2011

SDG No.: ST98-SU53-SU73-SU74

Lab File Name: 0506a016.d

Inst/Det: PID1.I/RTX 502-2 FID

Surrogate	Area	CalcAmt	NomAmt	RPD
Trifluorotol	48653	108.6	100.0	8.6
Bromoflrbenz	17527	102.6	100.0	2.6

BETX CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER

SDG No.: ST98-SU53-SU73-SU74

Project No.: LORA LAKE

Instrument/Det: PID1/RTX 502-2 PID

Calibration Date: 05/06/11

Init. Calib. Date(s): 05/05/11

Calib. File: 0506A028.D

COMPOUND	RT	RT WINDOW		CALC AMOUNT (ng/mL)	NOM AMOUNT (ng/mL)	%D
		FROM	TO			
Benzene	7.06	7.01	7.11	23.67	25.00	-5.3
Toluene	9.95	9.90	10.00	23.40	25.00	-6.4
Ethylbenzene	12.85	12.80	12.90	24.37	25.00	-2.5
M/P-Xylene	13.02	12.96	13.06	46.68	50.00	-6.6
O-Xylene	13.97	13.94	14.00	24.38	25.00	-2.5
MTBE	4.54	4.49	4.59	16.67	25.00	-33.3
TFT (Surr)	7.91	7.85	7.95	90.89	100.0	-9.1
BB (Surr)	15.45	15.40	15.50	98.37	100.0	-1.6

7a
GAS CONTINUING CALIBRATION VERIFICATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD SNIDER

ICal Date: 05-MAY-2011

Project: LORA LAKE

CCal Date: 06-MAY-2011

SDG No.: ST98-SU53-SU73-SU74

Lab File Name: 0506a029.d

Inst/Det: PID1.I/RTX 502-2 FID

Gas Range	Area*	CalcAmt	NomAmt	%D
WAGas (Tol-C12)	744514	2.33	2.50	-6.8
AKGas (C6-C10)	1151000	2.18	2.50	-12.7
NWGas (Tol-Nap)	786908	2.31	2.50	-7.4
8015B (2MP-TMB)	1442588	2.21	2.50	-11.5

* Surrogate areas are subtracted from Total Area
<- Indicates an RPD outside QC limits

7b
FID SURROGATE CONTINUING CALIBRATION

Lab Name: ANALYTICAL RESOURCES, INC.

Client: FLOYD SNIDER

ICal Date: 05-MAY-2011

Project: LORA LAKE

CCal Date: 06-MAY-2011

SDG No.: ST98-SU53-SU73-SU74

Lab File Name: 0506a029.d

Inst/Det: PID1.I/RTX 502-2 FID

Surrogate	Area	CalcAmnt	NomAmnt	RPD
Trifluorotol	45710	101.1	100.0	1.1
Bromoflrbenz	16863	99.6	100.0	-0.4

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

SDG No.: ST98-SU53-SU73-SU74

Project: LORA LAKE

Instrument ID: PID1

GC Detector: RTX 502-2 PID

Run Date: 05/06/11

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

METHOD SURROGATE RT					
S1 : 7.90		S2 : 15.45			
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	ZZZZZ	ZZZZZ	05/06/11	0544	
02	RT+BCAL 1	RT+BCAL 1	05/06/11	0613	7.90 15.45
03	GCAL 1	GCAL 1	05/06/11	0642	7.90 15.45
04	LCS0506S1	LCS0506	05/06/11	0711	7.90 15.45
05	LCSD0506S1	LCSD0506	05/06/11	0741	7.91 15.45
06	MB0506S1	MB0506	05/06/11	0810	7.91 15.45
07	MW02-042611	ST98A	05/06/11	0901	7.91 15.45
08	MW03-042611	ST98B	05/06/11	0930	7.90 15.45
09	MW13-042611	ST98C	05/06/11	0959	7.91 15.45
10	MW06-042611	ST98D	05/06/11	1028	7.91 15.45
11	MW06-042611	ST98DMS	05/06/11	1057	7.91 15.45
12	MW06-042611	ST98DMSD	05/06/11	1126	7.91 15.45
13	MW5042811	SU53A	05/06/11	1155	7.91 15.45
14	ZZZZZ	ZZZZZ	05/06/11	1224	
15	BCAL 2	BCAL 2	05/06/11	1253	7.91 15.45
16	GCAL 2	GCAL 2	05/06/11	1322	7.91 15.45
17	MW15042811	SU53B	05/06/11	1351	7.91 15.45
18	MW4042811	SU53C	05/06/11	1420	7.91 15.45
19	MW17042811	SU53D	05/06/11	1449	7.91 15.45
20	MW14042811	SU53E	05/06/11	1518	7.91 15.45
21	MW16042811	SU53F	05/06/11	1547	7.91 15.45
22	MW-01-042911	SU73A	05/06/11	1616	7.91 15.45
23	MW-01-042911	SU73B	05/06/11	1645	7.91 15.45
24	B312-042911	SU74A	05/06/11	1715	7.91 15.45
25	B310-042911	SU74B	05/06/11	1744	7.91 15.45
26	B311-042911	SU74C	05/06/11	1813	7.91 15.45
27	ZZZZZ	ZZZZZ	05/06/11	1842	
28	BCAL 3	BCAL 3	05/06/11	1911	7.91 15.45
29	GCAL 3	GCAL 3	05/06/11	1941	7.91 15.45

QC LIMITS

S1 = TFT(Surr)

(+/- 0.05 MINUTES)

S2 = BB(Surr)

(+/- 0.05 MINUTES)

* Values outside of QC limits.

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

SDG No.: VPCC0505-2

Project: LORA LAKE

Instrument ID: PID1

GC Detector: RTX 502-2 PID

Run Date: 05/05/11

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

METHOD SURROGATE RT					
S1 : 7.90		S2 : 15.45			
CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	RINSE	05/05/11	0517		
02	RT+BCAL 1	05/05/11	0546	7.90	15.45
03	GCAL 1	05/05/11	0901	7.90	15.45
04	RINSE	05/05/11	1139		
05	BETX .25	05/05/11	1209	7.90	15.45
06	BETX .5	05/05/11	1238	7.90	15.45
07	BETX 5	05/05/11	1307	7.90	15.45
08	BETX 25	05/05/11	1336	7.90	15.45
09	BETX 50	05/05/11	1405	7.91	15.45
10	BETX 100	05/05/11	1434	7.90	15.45
11	BETX 200	05/05/11	1504	7.90	15.45
12	BETX ICV	05/05/11	1533	7.90	15.45
13	RINSE	05/05/11	1602		
14	GAS .1	05/05/11	1631	7.91	15.45
15	GAS .25	05/05/11	1700	7.90	15.45
16	GAS 1	05/05/11	1730	7.90	15.45
17	GAS 2.5	05/05/11	1759	7.90	15.45
18	GAS 5	05/05/11	1828	7.90	15.45
19	GAS 20	05/05/11	1857	7.90	15.45
20	RINSE	05/05/11	1927		
21	GAS ICV	05/05/11	1956	7.90	15.45

S1 = TFT(Surr) (+/- 0.05 MINUTES)
S2 = BB(Surr) (+/- 0.05 MINUTES)

QC LIMITS

* Values outside of QC limits.

**Metals Analysis
Report and Summary QC Forms**

ARI Job ID: SU53, SU73, SU74

Cover Page

INORGANIC ANALYSIS DATA PACKAGE



CLIENT: Floyd Snider

PROJECT: Lora Lake Apts RI

SDG: SU53

CLIENT ID	ARI ID	ARI LIMS ID	REPREP
MW5042811	SU53A	11-9621	
MW5042811D	SU53ADUP	11-9621	
MW5042811S	SU53ASPK	11-9621	
MW4042811	SU53C	11-9623	
PBW	SU53MB1	11-9623	
LCSW	SU53MB1SPK	11-9623	
MW14042811	SU53E	11-9625	

Were ICP interelement corrections applied ? Yes/No YES
Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before
application of background corrections ? Yes/No NO

Comments: _____

THIS DATA PACKAGE HAS BEEN REVIEWED AND AUTHORIZED FOR RELEASE BY:

Signature: Jay Kuhn Name: Jay Kuhn
Date: 5/10/11 Title: Inorganics Director

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW5042811
SAMPLE

Lab Sample ID: SU53A
LIMS ID: 11-9621
Matrix: Groundwater
Data Release Authorized:
Reported: 05/10/11

QC Report No: SU53-Floyd Snider
Project: Lora Lake Apts RI
POS-LLA
Date Sampled: 04/28/11
Date Received: 04/28/11

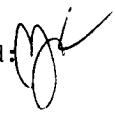


Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/03/11	200.8	05/09/11	7440-38-2	Arsenic	0.2	4.6	
200.8	05/03/11	200.8	05/09/11	7439-92-1	Lead	0.1	0.1	U

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW4042811
SAMPLE

Lab Sample ID: SU53C
LIMS ID: 11-9623
Matrix: Groundwater
Data Release Authorized: 
Reported: 05/10/11

QC Report No: SU53-Floyd Snider
Project: Lora Lake Apts RI
POS-LLA
Date Sampled: 04/28/11
Date Received: 04/28/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/03/11	200.8	05/09/11	7440-38-2	Arsenic	0.2	0.4	
200.8	05/03/11	200.8	05/09/11	7439-92-1	Lead	0.1	0.1	U

U-Analyte undetected at given RL
RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

Page 1 of 1


Sample ID: MW14042811

SAMPLE

Lab Sample ID: SU53E

LIMS ID: 11-9625

Matrix: Groundwater

Data Release Authorized: 

Reported: 05/10/11

QC Report No: SU53-Floyd Snider

Project: Lora Lake Apts RI

POS-LLA

Date Sampled: 04/28/11

Date Received: 04/28/11


Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/03/11	200.8	05/09/11	7440-38-2	Arsenic	0.2	0.4	
200.8	05/03/11	200.8	05/09/11	7439-92-1	Lead	0.1	0.1	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW5042811
MATRIX SPIKE

Lab Sample ID: SU53A
LIMS ID: 11-9621
Matrix: Groundwater
Data Release Authorized 
Reported: 05/10/11

QC Report No: SU53-Floyd Snider
Project: Lora Lake Apts RI
POS-LLA
Date Sampled: 04/28/11
Date Received: 04/28/11

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	200.8	4.55	30.0	25.0	102%	
Lead	200.8	0.100 U	24.4	25.0	97.6%	

Reported in µg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

Page 1 of 1


Sample ID: MW5042811

DUPLICATE

Lab Sample ID: SU53A

LIMS ID: 11-9621

Matrix: Groundwater

Data Release Authorized 

Reported: 05/10/11

QC Report No: SU53-Floyd Snider

Project: Lora Lake Apts RI

POS-LLA

Date Sampled: 04/28/11

Date Received: 04/28/11

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	200.8	4.6	4.5	2.2%	+/- 20%	
Lead	200.8	0.1 U	0.1 U	0.0%	+/- 0.1	L

Reported in µg/L

*-Control Limit Not Met

L-RPD Invalid, Limit = Detection Limit

**INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS**

Sample ID: LAB CONTROL

Page 1 of 1

Lab Sample ID: SU53LCS


QC Report No: SU53-Floyd Snider

LIMS ID: 11-9623

Project: Lora Lake Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: 

Date Sampled: NA

Reported: 05/10/11

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	25.6	25.0	102%	
Lead	200.8	25.8	25.0	103%	

Reported in µg/L

N-Control limit not met

Control Limits: 80-120%

INORGANICS ANALYSIS DATA SHEET

DISSOLVED METALS

Sample ID: METHOD BLANK

Page 1 of 1

Lab Sample ID: SU53MB


QC Report No: SU53-Floyd Snider

LIMS ID: 11-9623

Project: Lora Lake Apts RI

Matrix: Groundwater

POS-LLA

Data Release Authorized: 

Date Sampled: NA

Reported: 05/10/11

Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/03/11	200.8	05/09/11	7440-38-2	Arsenic	0.2	0.2	U
200.8	05/03/11	200.8	05/09/11	7439-92-1	Lead	0.1	0.1	U

U-Analyte undetected at given RL

RL-Reporting Limit

Calibration Verification



CLIENT: Floyd Snider

PROJECT: Lora Lake Apts RI

SDG: SU53

UNITS: ug/L

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Arsenic	AS	PMS	MS050981	50.0	49.86	99.7	50.0	50.42	100.8	50.15	100.3	50.26	100.5	50.30	100.6	50.19	100.4
Lead	PB	PMS	MS050981	50.0	49.27	98.5	50.0	49.80	99.6	50.03	100.1	50.48	101.0	49.97	99.9	48.64	97.3

Control Limits: Mercury 80-120; Other Metals 90-110

Calibration Verification



CLIENT: Floyd Snider

PROJECT: Lora Lake Apts RI

SDG: SU53

UNITS: ug/L

ANALYTE	EL	M	RUN	CCVTV	CCV6	%R	CCV7	%R	CCV8	%R	CCV9	%R	CCV10	%R	CCV11	%R
Arsenic	AS	PMS	MS050981	50.0	50.57	101.1										
Lead	PB	PMS	MS050981	50.0	47.91	95.8										

Control Limits: Mercury 80-120; Other Metals 90-110

CRDL Standard

CLIENT: Floyd Snider

PROJECT: Lora Lake Apts RI

SDG: SU53



ANALYTICAL
RESOURCES
INCORPORATED

UNITS:ug/L

ANALYTE	EL	M	RUN	CRA/I	TV	CR-1	%R	CR-2	%R	CR-3	%R	CR-4	%R	CR-5	%R	CR-6	%R
Arsenic	AS	PMS	MS050981	0.2		0.23	115.0										
Lead	PB	PMS	MS050981	0.1		0.11	110.0										

Control Limits: no control limits have been established by the EPA at this time.

Calibration Blanks

CLIENT: Floyd Snider

PROJECT: Lora Lake Apts RI

SDG: SU53



UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	ICB	ICB	CCB1	CCB2	CCB3	CCB4	CCB5	C
Arsenic	AS	PMS	MS050981	10.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	U
Lead	PB	PMS	MS050981	3.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	U

Calibration Blanks

CLIENT: Floyd Snider

PROJECT: Lora Lake Apts RI

SDG: SU53



UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	CCB6	CCB7	CCB8	CCB9	CCB10	CCB11	C
Arsenic	AS	PMS	MS050981	10.0	0.2	0.2	0					
Lead	PB	PMS	MS050981	3.0	0.1	0.1	0					

SU53 : 00236



ICP Interference Check Sample

CLIENT: Floyd Snider
PROJECT: Lora Lake Apts RI
SDG: SU53

ICS SOURCE: I.V.
RUNID: MS050981
INSTRUMENT ID: PE ELAN 6000
UNITS: ug/L

ANALYTE	ICSA TV	ICSAB TV	ICSA1	ICSAB1	%R	ICSA2	ICSAB2	%R	ICSA3	ICSAB3	%R
Antimony			0.1		0.1						
Arsenic		20	0.0		19.7	98.5					
Barium			0.0		0.1						
Cadmium		20	0.1		19.4	97.0					
Chromium		20	0.7		20.9	104.5					
Cobalt		20	0.0		20.8	104.0					
Copper		20	0.5		20.4	102.0					
Manganese		20	0.1		20.7	103.5					
Molybdenum	400	400	433.0		431.4	107.9					
Nickel		20	0.5		20.6	103.0					
Silver		20	0.0		19.1	95.5					
Vanadium			0.0		-0.4						
Zinc		20	1.2		20.3	101.5					

IDLs and ICP Linear Ranges



CLIENT: Floyd Snider

PROJECT: Lora Lake Apts RI

SDG: SU53

UNITS: ug/L

ANALYTE	EL	METH	INSTRUMENT	WAVELENGTH (nm)	GFA BACK- GROUND	CLP CRDL	RL	RL DATE	ICP LINEAR RANGE (ug/L)	ICP LR DATE
Arsenic	AS	PMS	PE ELAN 6000 MS	0.00		10	0.2	4/1/2011		
Lead	PB	PMS	PE ELAN 6000 MS	0.00		3	0.1	4/1/2011		

Preparation Log



CLIENT: Floyd Snider
PROJECT: Lora Lake Apts RI
SDG: SU53

ANALYSIS METHOD: PMS
ARI PREP CODE: REN
PREPDATE: 5/3/2011

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
MW5042811	SU53A	0.000	50.0	25.0
MW5042811D	SU53ADUP	0.000	50.0	25.0
MW5042811S	SU53ASPK	0.000	50.0	25.0
MW4042811	SU53C	0.000	50.0	25.0
MW14042811	SU53E	0.000	50.0	25.0
PBW	SU53MB1	0.000	50.0	25.0
LCSW	SU53MB1SPK	0.000	50.0	25.0

Analysis Run Log

CLIENT: Floyd Snider
 PROJECT: Lora Lake Apts RI
 SDG: SU53
 INSTRUMENT ID: PE ELAN 6000 MS
 RUNID: MS050981 METHOD: PMS
 START DATE: 5/9/2011
 END DATE: 5/9/2011

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN		
S0	S0	1.00	11390																																X
S1	S1	1.00	11470																																X
S2	S2	1.00	11540																																X
S3	S3	1.00	12020																																X
S4	S4	1.00	12100																																X
zzzzzz	Rinse Sampl	1.00	12180																															X	
ICV	MICV	1.00	12250																															X	
ICB	ICB	1.00	12320																																X
CCV	MCCV1	1.00	12390																																X
CCB	CCB1	1.00	12470																																X
CRI	MCRI	1.00	12540																																X
ICSA	ICSAI	1.00	13010																																X
ICSAB	ICSABI	1.00	13080																																X
zzzzzz	IR200	1.00	13160																																X
zzzzzz	IR300	1.00	13230																																X
CCV	MCCV2	1.00	13310																																X
CCB	CCB2	1.00	13380																																X
zzzzzz	SU15P	2.00	13450																																X
zzzzzz	SU15PDUP	2.00	13520																																X
zzzzzz	SU13E	2.00	13580																																X
zzzzzz	SU13K	2.00	14050																																X
zzzzzz	SU15O	20.00	14120																																X
zzzzzz	SU15O	5.00	14180																																X
zzzzzz	SU15M	5.00	14250																																X
zzzzzz	SU15N	5.00	14310																																X
zzzzzz	SU15E	50.00	14380																																X
zzzzzz	SU15F	50.00	14450																																X
CCV	MCCV3	1.00	14510																																X
CCB	CCB3	1.00	14580																																X
zzzzzz	SU59MB1	20.00	15070																																X
zzzzzz	SU59MB1SPK	20.00	15130																																X
zzzzzz	SU13D	10.00	15200																																X
zzzzzz	SU13J	10.00	15260																																X
zzzzzz	SU13L	10.00	15330																																X
zzzzzz	SU13F	20.00	15390																																X



Analysis Run Log

CLIENT: Floyd Snider

PROJECT: Lora Lake Apts RI

SDG: SU53

INSTRUMENT ID: PE ELAN 6000 MS

RUNID: MS050981 METHOD: PMS

START DATE: 5/9/2011

END DATE: 5/9/2011

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN		
ZZZZZZ	SU15G	20.00	15460																																
ZZZZZZ	SU59ADUP	20.00	15520																																
ZZZZZZ	SU59A	20.00	15590																																
ZZZZZZ	SU59ASPK	20.00	16050																																
CCV	MCCV4	1.00	16120					X																										X	
CCB	CCB4	1.00	16190					X																										X	
ZZZZZZ	SU27MB1	2.00	16260																																
ZZZZZZ	SU27ME2	2.00	16330																																
ZZZZZZ	SU27ME2SPK	2.00	16400																																
ZZZZZZ	SU27MB1SPK	2.00	16460																																
ZZZZZZ	SU27A	2.00	16530																																
ZZZZZZ	SU27B	2.00	16590																																
ZZZZZZ	SU27C	2.00	17060																																
ZZZZZZ	SU27D	2.00	17130																																
ZZZZZZ	SU27E	2.00	17190																																
ZZZZZZ	SU59B	20.00	17260																																
CCV	MCCV5	1.00	17320						X																									X	
CCB	CCB5	1.00	17390						X																										X
PBW	SU53MB1	2.00	17570						X																										X
LCSW	SU53MB1SPK	2.00	18040						X																										X
MW5042811D	SU53ADUP	2.00	18100						X																										X
MW5042811	SU53A	2.00	18170						X																										X
MW5042811S	SU53ASPK	2.00	18230						X																										X
MW4042811	SU53C	2.00	18300						X																										X
MW14042811	SU53E	2.00	18360						X																										X
ZZZZZZ	SU45A	2.00	18430																																
ZZZZZZ	SU45B	2.00	18490																																
ZZZZZZ	SU27F	2.00	18560																																
CCV	MCCV6	1.00	19030						X																										X
CCB	CCB6	1.00	19100						X																										X

Cover Page

INORGANIC ANALYSIS DATA PACKAGE



CLIENT: Floyd Snider

PROJECT: Lora Lake Apts RI

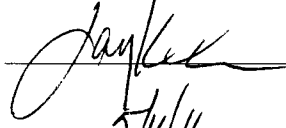
SDG: SU73

CLIENT ID	ARI ID	ARI LIMS ID	REPREP
MW-01-042911	SU73A	11-9762	
MW-01-042911D	SU73ADUP	11-9762	
MW-01-042911S	SU73ASPK	11-9762	
MW-01-042911-D	SU73B	11-9763	
PBW	SU73MB1	11-9763	
LCSW	SU73MB1SPK	11-9763	
B312-042911	SU74A	11-9772	
B310-042911	SU74B	11-9773	
B311-042911	SU74C	11-9774	

Were ICP interelement corrections applied ? Yes/No YES
Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before
application of background corrections ? Yes/No NO

Comments: _____

THIS DATA PACKAGE HAS BEEN REVIEWED AND AUTHORIZED FOR RELEASE BY:

Signature:  Name: Jay Kuhn
Date: 5/11/11 Title: Inorganics Director

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MW-01-042911

SAMPLE

Lab Sample ID: SU73A

QC Report No: SU73-Floyd Snider

LIMS ID: 11-9762

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA.4010

Data Release Authorized: *aw*

Date Sampled: 04/29/11

Reported: 08/29/11

Date Received: 04/29/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/05/11	200.8	05/10/11	7440-38-2	Arsenic	0.2	14.2	
200.8	05/05/11	200.8	05/10/11	7439-92-1	Lead	0.1	0.1	U

U-Analyte undetected at given RL

RL-Reporting Limit

SU73: 243R *bc 8/29/11*

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MW-01-042911-D
SAMPLE

Lab Sample ID: SU73B

QC Report No: SU73-Floyd Snider

LIMS ID: 11-9763

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA.4010

Data Release Authorized: *aw*

Date Sampled: 04/29/11

Reported: 08/29/11

Date Received: 04/29/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/05/11	200.8	05/10/11	7440-38-2	Arsenic	0.2	13.4	
200.8	05/05/11	200.8	05/10/11	7439-92-1	Lead	0.1	0.1	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: B312-042911
SAMPLE

Lab Sample ID: SU74A

QC Report No: SU74-Floyd Snider

LIMS ID: 11-9772

Project: Lora Lake Parcel

Matrix: Water

POS-LL.4010

Data Release Authorized: *AW*

Date Sampled: 04/29/11

Reported: 08/29/11

Date Received: 04/29/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/05/11	200.8	05/10/11	7440-38-2	Arsenic	0.2	0.3	
200.8	05/05/11	200.8	05/10/11	7439-92-1	Lead	0.1	0.1	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: B310-042911

SAMPLE

Lab Sample ID: SU74B


QC Report No: SU74-Floyd Snider

LIMS ID: 11-9773

Project: Lora Lake Parcel

Matrix: Water

POS-LL.4010

Data Release Authorized: 

Date Sampled: 04/29/11

Reported: 08/29/11

Date Received: 04/29/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/05/11	200.8	05/10/11	7440-38-2	Arsenic	0.2	0.7	
200.8	05/05/11	200.8	05/10/11	7439-92-1	Lead	0.1	0.1	U

U-Analyte undetected at given RL

RL-Reporting Limit

SU53: 246R ^{13C8/30/11}

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: B311-042911
SAMPLE

Lab Sample ID: SU74C

QC Report No: SU74-Floyd Snider

LIMS ID: 11-9774

Project: Lora Lake Parcel

Matrix: Water

POS-LL.4010

Data Release Authorized: *[Signature]*

Date Sampled: 04/29/11

Reported: 08/29/11

Date Received: 04/29/11

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/05/11	200.8	05/10/11	7440-38-2	Arsenic	0.2	0.4	
200.8	05/05/11	200.8	05/10/11	7439-92-1	Lead	0.1	0.1	U

U-Analyte undetected at given RL

RL-Reporting Limit

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MW-01-042911

MATRIX SPIKE

Lab Sample ID: SU73A

LIMS ID: 11-9762

Matrix: Water

Data Release Authorized: *NO*

Reported: 08/29/11

QC Report No: SU73-Floyd Snider

Project: Lora Lake Apts RI

POS-LLA.4010

Date Sampled: 04/29/11

Date Received: 04/29/11

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	200.8	14.2	39.3	25.0	100%	
Lead	200.8	0.100 U	23.6	25.0	94.4%	

Reported in µg/L

N-Control Limit Not Met

H-% Recovery Not Applicable, Sample Concentration Too High

NA-Not Applicable, Analyte Not Spiked

NR-Not Recovered

Percent Recovery Limits: 75-125%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: MW-01-042911

DUPLICATE

Lab Sample ID: SU73A

QC Report No: SU73-Floyd Snider

LIMS ID: 11-9762

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA.4010

Data Release Authorized: *W*

Date Sampled: 04/29/11

Reported: 08/29/11

Date Received: 04/29/11

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	200.8	14.2	14.2	0.0%	+/- 20%	
Lead	200.8	0.1 U	0.1	0.0%	+/- 0.1	L

Reported in µg/L

*-Control Limit Not Met

L-RPD Invalid, Limit = Detection Limit

SU53: 249R BCL 8/25/11

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: SU73LCS


QC Report No: SU73-Floyd Snider

LIMS ID: 11-9763

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA.4010

Data Release Authorized: 

Date Sampled: NA

Reported: 08/29/11

Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	25.6	25.0	102%	
Lead	200.8	24.3	25.0	97.2%	

Reported in µg/L

N-Control limit not met

Control Limits: 80-120%

INORGANICS ANALYSIS DATA SHEET

TOTAL METALS

Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: SU73MB

QC Report No: SU73-Floyd Snider

LIMS ID: 11-9763

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA.4010

Data Release Authorized: *aw*

Date Sampled: NA

Reported: 08/29/11

Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/05/11	200.8	05/10/11	7440-38-2	Arsenic	0.2	0.2	U
200.8	05/05/11	200.8	05/10/11	7439-92-1	Lead	0.1	0.1	U

U-Analyte undetected at given RL

RL-Reporting Limit

SU 53: 2512 BC 8/30/11

Calibration Verification



CLIENT: Floyd Snider

PROJECT: Lora Lake Apts RI

SDG: SU73

UNITS: ug/L

ANALYTE	EL	M	RUN	ICVTV	ICV	%R	CCVTV	CCV1	%R	CCV2	%R	CCV3	%R	CCV4	%R	CCV5	%R
Arsenic	AS	PMS	MS051081	50.0	50.12	100.2	50.0	50.17	100.3	50.50	101.0	50.84	101.7	50.57	101.1	50.54	101.1
Lead	PB	PMS	MS051081	50.0	48.85	97.7	50.0	48.87	97.7	48.85	97.7	47.20	94.4	46.07	92.1	46.67	93.3

Control Limits: Mercury 80-120; Other Metals 90-110

Calibration Verification

CLIENT: Floyd Snider

PROJECT: Lora Lake Apts RI

SDG: SU73

UNITS: ug/L

ANALYTE	EL	M	RUN	CCVTV	CCV6	CCV7	CCV8	CCV9	CCV10	CCV11
				%R	%R	%R	%R	%R	%R	%R
Arsenic	AS	PMS	MS051081	50.0	49.98	100.0	50.49	101.0	49.65	99.3
Lead	PB	PMS	MS051081	50.0	47.27	94.5	47.07	94.1	46.95	93.9

Control Limits: Mercury 80-120; Other Metals 90-110

CRDI Standard

CLIENT: Floyd Snider
PROJECT: Lora Lake Apts RI
SDG: SU73



UNITS: ug/L

ANALYTE EL M RUN CRA/I TV CR-1 %R CR-2 %R CR-3 %R CR-4 %R CR-5 %R CR-6 %R

Arsenic	AS	PMS	MS051081	0.2	0.18	90.0									
Lead	PB	PMS	MS051081	0.1	0.11	110.0									

Control Limits: no control limits have been established by the EPA at this time.

Calibration Blanks

CLIENT: Floyd Snider
 PROJECT: Lora Lake Apts RI
 SDG: SU73



UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	ICB	C	CCB1	C	CCB2	C	CCB3	C	CCB4	C	CCB5	C
Arsenic	AS	PMS	MS051081	10.0	0.2	0.2	u	0.2	u	0.2	u	0.2	u	0.2	u	0.2	u
Lead	PB	PMS	MS051081	3.0	0.1	0.1	u	0.1	u	0.1	u	0.1	u	0.1	u	0.1	u

Calibration Blanks

CLIENT: Floyd Snider

PROJECT: Lora Lake Apts RI

SDG: SU73



UNITS: ug/L

ANALYTE	EL	METH	RUN	CRDL	IDL	CCB6	CCB7	CCB8	CCB9	CCB10	CCB11	C
Arsenic	AS	PMS	MS051081	10.0	0.2	0.2	0.2	0.2				U
Lead	PB	PMS	MS051081	3.0	0.1	0.1	0.1	0.1				U

**ICP Interference
Check Sample**



CLIENT: Floyd Snider

ICS SOURCE: I.V.

PROJECT: Lora Lake Apts RI

RUNID: MS051081

SDG: SU73

INSTRUMENT ID: PE ELAN 6000

UNITS: ug/L

ANALYTE	ICSA TV	ICSAB TV	ICSA1	ICSAB1	%R	ICSA2	ICSAB2	%R	ICSA3	ICSAB3	%R
Arsenic		20	0.0	19.8	99.0						
Barium			0.0	0.1							
Cadmium		20	0.1	19.3	96.5						
Chromium		20	0.6	20.5	102.5						
Cobalt		20	0.0	20.2	101.0						
Copper		20	0.5	20.0	100.0						
Manganese		20	0.0	20.1	100.5						
Molybdenum	400	400	429.4	427.1	106.8						
Nickel		20	0.7	20.4	102.0						
Selenium			0.0	0.1							
Silver		20	0.0	18.9	94.5						
Vanadium			0.0	-0.5							
Zinc		20	1.2	20.5	102.5						

IDLs and ICP Linear Ranges



CLIENT: Floyd Snider

PROJECT: Lora Lake Apts RI

SDG: SU73

UNITS: ug/L

ANALYTE	EL	METH	INSTRUMENT	WAVELENGTH (nm)	GFA BACK- GROUND	CLP CRDL	RL	RL DATE	ICP LINEAR RANGE (ug/L)	ICP LR DATE
Arsenic	AS	PMS	PE ELAN 6000 MS	0.00		10	0.2	4/1/2011		
Lead	PB	PMS	PE ELAN 6000 MS	0.00		3	0.1	4/1/2011		

Preparation Log



CLIENT: Floyd Snider
PROJECT: Lora Lake Apts RI
SDG: SU73

ANALYSIS METHOD: PMS
ARI PREP CODE: REN
PREPDATE: 5/5/2011

CLIENT ID	ARI ID	MASS (g)	INITIAL VOLUME (mL)	FINAL VOLUME (mL)
MW-01-042911	SU73A	0.000	50.0	25.0
MW-01-042911D	SU73ADUP	0.000	50.0	25.0
MW-01-042911S	SU73ASPK	0.000	50.0	25.0
MW-01-042911-D	SU73B	0.000	50.0	25.0
PBW	SU73MB1	0.000	50.0	25.0
LCSW	SU73MB1SPK	0.000	50.0	25.0
B312-042911	SU74A	0.000	50.0	25.0
B310-042911	SU74B	0.000	50.0	25.0
B311-042911	SU74C	0.000	50.0	25.0

Analysis Run Log



CLIENT: Floyd Snider
PROJECT: Lora Lake Apts RI
SDG: SU73
INSTRUMENT ID: PE ELAN 6000 MS
RINID: MS051081
METHOD: PMS
START DATE: 5/10/2011
END DATE: 5/10/2011

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN						
S0		1.00	11310																																	X			
S1		1.00	11390																																	X			
S2		1.00	11470																																	X			
S3		1.00	11550																																	X			
S4		1.00	12020																																	X			
ZZZZZZ	Rinse Samp1	1.00	12100																																	X			
ICV	MICV	1.00	12170																																	X			
ICB	ICB	1.00	12250																																		X		
CCV	MCCV1	1.00	12320																																		X		
CCB	CCB1	1.00	12390																																		X		
CRI	MCRI	1.00	12460																																		X		
ICSA	ICSAI	1.00	12530																																		X		
ICSAB	ICSABI	1.00	13010																																		X		
ZZZZZZ	LR200	1.00	13080																																		X		
ZZZZZZ	LR300	1.00	13160																																			X	
CCV	MCCV2	1.00	13230																																		X		
CCB	CCB2	1.00	13310																																			X	
ZZZZZZ	SU14MB1	2.00	13380																																			X	
ZZZZZZ	SU14MB2	2.00	13440																																			X	
ZZZZZZ	SU14MB2SPK	2.00	13510																																			X	
ZZZZZZ	SU14MB1SPK	2.00	13580																																			X	
ZZZZZZ	SU14A-L	10.00	14040																																			X	
ZZZZZZ	SU14A	2.00	14110																																			X	
ZZZZZZ	SU14ADUP	2.00	14170																																				X
ZZZZZZ	SU14ASPK	2.00	14240																																				X
ZZZZZZ	ZZZZZZ	2.00	14310																																				X
ZZZZZZ	SU14B	2.00	14370																																			X	
CCV	MCCV3	1.00	14440																																			X	
CCB	CCB3	1.00	14510																																			X	
ZZZZZZ	SU14F-L	10.00	14580																																				X
ZZZZZZ	SU14F	2.00	15050																																				X
ZZZZZZ	SU14FDUP	2.00	15110																																				X
ZZZZZZ	SU14FSPK	2.00	15180																																				X
ZZZZZZ	ZZZZZZ	2.00	15240																																				X
ZZZZZZ	SU14C	2.00	15310																																				X

Analysis Run Log



CLIENT: Floyd Snider

PROJECT: Lora Lake Apts RI

SDG: SU73

INSTRUMENT ID: PE ELAN 6000 MS

RUNID: MS051081 METHOD: PMS

START DATE: 5/10/2011

END DATE: 5/10/2011

CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN			
ZZZZZZ	SU14D		2.00	15370																																
ZZZZZZ	SU14E		2.00	15440																																
ZZZZZZ	SU14G		2.00	15510																																
ZZZZZZ	SU14H		2.00	15570																																
CCV	MCCV4		1.00	16040				X																												
CCB	CCB4		1.00	16110				X																												
ZZZZZZ	SU57ADUP		50.00	16180																																
ZZZZZZ	SU57A		50.00	16250																																
ZZZZZZ	SU57ASPK		50.00	16310																																
ZZZZZZ	SU57KDUP		50.00	16380																																
ZZZZZZ	SU57K		50.00	16440																																
ZZZZZZ	SU57KSPK		50.00	16510																																
ZZZZZZ	SU57B		50.00	16580																																
ZZZZZZ	SU57L		50.00	17040																																
ZZZZZZ	SU14I		2.00	17110																																
ZZZZZZ	SU14J		2.00	17170																																
CCV	MCCV5		1.00	17240				X																												
CCB	CCB5		1.00	17310				X																												
ZZZZZZ	SU57D		2.00	17410																																
ZZZZZZ	SU57D		10.00	17480																																
ZZZZZZ	SU57F		2.00	17540																																
ZZZZZZ	SU57G		2.00	18010																																
ZZZZZZ	SU57G		10.00	18080																																
ZZZZZZ	SU57J		2.00	18140																																
ZZZZZZ	SU57N		2.00	18210																																
ZZZZZZ	SU57N		10.00	18270																																
ZZZZZZ	SU57Q		2.00	18340																																
ZZZZZZ	SU57Q		20.00	18400																																
CCV	MCCV6		1.00	18470				X																												
CCB	CCB6		1.00	18540				X																												
ZZZZZZ	SU58MB1		2.00	19010																																
ZZZZZZ	SU58MB2		2.00	19080																																
ZZZZZZ	SU58MB2SPK		2.00	19150																																
ZZZZZZ	SU58MB1SPK		2.00	19210																																
ZZZZZZ	SU58A		2.00	19280																																

Analysis Run Log



CLIENT: Floyd Snider
 PROJECT: Lora Lake Apts RI
 SDG: SU73
 INSTRUMENT ID: PE ELAN 6000 MS
 RUNID: MS051081
 METHOD: PMS
 START DATE: 5/10/2011
 END DATE: 5/10/2011


CLIENT ID	ARI ID	DIL.	TIME	%R	AG	AL	AS	B	BA	BE	CA	CD	CO	CR	CU	FE	HG	K	MG	MN	MO	NA	NI	PB	SB	SE	SI	SN	TI	TL	U	V	ZN	
ZZZZZZ	SU58B	2.00	19340																															
ZZZZZZ	SU58C	2.00	19410																															
ZZZZZZ	SU58D	2.00	19470																															
ZZZZZZ	SU57P	2.00	19540																															
ZZZZZZ	SU57T	2.00	20000																															
CCV	MCCV7	1.00	20070					X																										X
CCB	CCB7	1.00	20140					X																										X
PBW	SU73MB1	2.00	20210					X																										X
LCSW	SU73MB1SPK	2.00	20280					X																										X
MW-01-042911D	SU73ADUP	2.00	20340					X																										X
MW-01-042911	SU73A	2.00	20410					X																										X
MW-01-042911S	SU73ASPK	2.00	20470					X																										X
MW-01-042911-D	SU73B	2.00	20540					X																										X
B312-042911	SU74A	2.00	21010					X																										X
B310-042911	SU74B	2.00	21070					X																										X
B311-042911	SU74C	2.00	21140					X																										X
ZZZZZZ	SU14I	5.00	21200					X																										X
CCV	MCCV8	1.00	21270					X																										X
CCB	CCB8	1.00	21340					X																										X

**General Chemistry Analysis
Report and Summary QC Forms**

ARI Job ID: SU53, SU73, SU74

INORGANICS ANALYSIS DATA SHEET
pH by Method EPA 150.1



Data Release Authorized: 
Reported: 05/04/11
Date Received: 04/28/11
Page 1 of 1

QC Report No: SU53-Floyd Snider
Project: Lora Lake Apts RI
POS-LLA


Client/ ARI ID	Date Sampled	Matrix	Analysis Date & Batch	RL	Result
MW5042811 SU53A 11-9621	04/28/11	Groundwat	04/28/11 12:10 042811#1	0.01	6.30
MW15042811 SU53B 11-9622	04/28/11	Groundwat	04/28/11 12:10 042811#1	0.01	7.45
MW4042811 SU53C 11-9623	04/28/11	Groundwat	04/28/11 12:10 042811#1	0.01	6.51
MW17042811 SU53D 11-9624	04/28/11	Groundwat	04/28/11 12:10 042811#1	0.01	7.63
MW14042811 SU53E 11-9625	04/28/11	Groundwat	04/28/11 12:10 042811#1	0.01	6.55
MW16042811 SU53F 11-9626	04/28/11	Groundwat	04/28/11 12:10 042811#1	0.01	6.75

Reported in std units

RL-Analytical reporting limit
U-Undetected at reported detection limit

INORGANICS ANALYSIS DATA SHEET
Total Suspended Solids by Method EPA 160.2



Data Release Authorized: 
Reported: 05/04/11
Date Received: 04/28/11
Page 1 of 1

QC Report No: SU53-Floyd Snider
Project: Lora Lake Apts RI
POS-LLA


Client/ ARI ID	Date Sampled	Matrix	Analysis Date & Batch	RL	Result
MW5042811 SU53A 11-9621	04/28/11	Groundwat	05/03/11 14:25 050311#1	1.1	4.2
MW15042811 SU53B 11-9622	04/28/11	Groundwat	05/03/11 14:25 050311#1	1.0	4.1
MW4042811 SU53C 11-9623	04/28/11	Groundwat	05/03/11 14:25 050311#1	1.1	2.6
MW17042811 SU53D 11-9624	04/28/11	Groundwat	05/03/11 14:25 050311#1	1.0	12.0
MW14042811 SU53E 11-9625	04/28/11	Groundwat	05/03/11 14:25 050311#1	1.0	2.2
MW16042811 SU53F 11-9626	04/28/11	Groundwat	05/03/11 14:25 050311#1	1.7	23.2

Reported in mg/L

RL-Analytical reporting limit
U-Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
SU53-Floyd Snider



Matrix: Groundwater
Data Release Authorized: 
Reported: 05/04/11

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: 04/28/11
Date Received: 04/28/11

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
<hr/>					
ARI ID: SU53A	Client ID: MW5042811				
pH	04/28/11	std units	6.30	6.31	0.01

pH is evaluated as the Absolute Difference between the values rather than Relative Percent Difference

LAB CONTROL RESULTS-CONVENTIONALS
SU53-Floyd Snider



Matrix: Groundwater
Data Release Authorized: *[Signature]*
Reported: 05/04/11

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte	Date/Time	Units	LCS	Spike Added	Recovery
pH	04/28/11	std units	7.03	7.00	0.03
Total Suspended Solids	05/03/11 14:25	mg/L	49.6	50.0	99.2%

pH is evaluated as the Absolute Difference between the values rather than Percent Recovery.

METHOD BLANK RESULTS-CONVENTIONALS
SU53-Floyd Snider




Matrix: Groundwater
Data Release Authorized: *[Signature]*
Reported: 05/04/11

Project: Lora Lake Apts RI
Event: POS-LLA
Date Sampled: NA
Date Received: NA

Analyte	Date/Time	Units	Blank
Total Suspended Solids	05/03/11 14:25	mg/L	< 1.0 U

SAMPLE RESULTS-CONVENTIONAL
SU73-Floyd Snider



Matrix: Water
Data Release Authorized: 
Reported: 05/10/11

Project: Lora Lake Apts RI
Event: POS-LLA.4010
Date Sampled: 04/29/11
Date Received: 04/29/11


Client ID: MW-01-042911
ARI ID: 11-9762 SU73A

Analyte	Date Batch	Method	Units	RL	Sample
pH	04/29/11 042911#1	EPA 150.1	std units	0.01	6.92
Total Suspended Solids	05/04/11 050411#1	EPA 160.2	mg/L	1.1	7.0

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
SU73-Floyd Snider



Matrix: Water
Data Release Authorized: 
Reported: 05/10/11

Project: Lora Lake Apts RI
Event: POS-LLA.4010
Date Sampled: 04/29/11
Date Received: 04/29/11

Client ID: MW-01-042911-D
ARI ID: 11-9763 SU73B

Analyte	Date Batch	Method	Units	RL	Sample
pH	04/29/11 042911#1	EPA 150.1	std units	0.01	6.94
Total Suspended Solids	05/04/11 050411#1	EPA 160.2	mg/L	1.1	6.9

RL Analytical reporting limit
U Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
SU73-Floyd Snider



Matrix: Water
Data Release Authorized:
Reported: 05/10/11

A handwritten signature in black ink, appearing to be 'F. Snider', written over the 'Data Release Authorized' line.


Project: Lora Lake Apts RI
Event: POS-LLA.4010
Date Sampled: 04/29/11
Date Received: 04/29/11

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: SU73A Client ID: MW-01-042911						
pH	EPA 150.1	04/29/11	std units	6.92	6.94	0.02

pH is evaluated as the Absolute Difference between the values rather than Relative Percent Difference

LAB CONTROL RESULTS-CONVENTIONALS
SU73-Floyd Snider



Matrix: Water
Data Release Authorized: 
Reported: 05/10/11


Project: Lora Lake Apts RI
Event: POS-LLA.4010
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
pH EPA 150.1	ICVL	04/29/11	std units	6.98	7.00	0.02
Total Suspended Solids EPA 160.2	ICVL	05/04/11	mg/L	48.4	50.0	96.8%

pH is evaluated as the Absolute Difference between the values rather than Percent Recovery.

METHOD BLANK RESULTS-CONVENTIONALS
SU73-Floyd Snider



Matrix: Water
Data Release Authorized: 
Reported: 05/10/11

Project: Lora Lake Apts RI
Event: POS-LLA.4010
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Total Suspended Solids	EPA 160.2	05/04/11	mg/L	< 1.0 U	

INORGANICS ANALYSIS DATA SHEET
pH by Method EPA 150.1



Data Release Authorized: *MS*
Reported: 05/04/11
Date Received: 04/29/11
Page 1 of 1

QC Report No: SU74-Floyd Snider
Project: Lora Lake Parcel
POS-LL.4010


Client/ ARI ID	Date Sampled	Matrix	Analysis Date & Batch	RL	Result
B312-042911 SU74A 11-9772	04/29/11	Water	04/29/11 17:12 042911#1	0.01	5.91
B310-042911 SU74B 11-9773	04/29/11	Water	04/29/11 17:12 042911#1	0.01	6.02
B311-042911 SU74C 11-9774	04/29/11	Water	04/29/11 17:12 042911#1	0.01	5.87

Reported in std units

RL-Analytical reporting limit
U-Undetected at reported detection limit

INORGANICS ANALYSIS DATA SHEET
Total Suspended Solids by Method EPA 160.2



Data Release Authorized: 
Reported: 05/04/11
Date Received: 04/29/11
Page 1 of 1

QC Report No: SU74-Floyd Snider
Project: Lora Lake Parcel
POS-LL.4010

Client/ ARI ID	Date Sampled	Matrix	Analysis Date & Batch	RL	Result
B312-042911 SU74A 11-9772	04/29/11	Water	05/03/11 14:25 050311#1	1.1	3.5
B310-042911 SU74B 11-9773	04/29/11	Water	05/03/11 14:25 050311#1	1.1	2.4
B311-042911 SU74C 11-9774	04/29/11	Water	05/03/11 14:25 050311#1	1.1	3.7

Reported in mg/L

RL-Analytical reporting limit
U-Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
SU74-Floyd Snider



Matrix: Water
Data Release Authorized: *MS*
Reported: 05/04/11

Project: Lora Lake Parcel
Event: POS-LL.4010
Date Sampled: 04/29/11
Date Received: 04/29/11

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
<hr/>					
ARI ID: SU74A	Client ID: B312-042911				
pH	04/29/11	std units	5.91	5.91	0.00

pH is evaluated as the Absolute Difference between the values rather than Relative Percent Difference

LAB CONTROL RESULTS-CONVENTIONALS
SU74-Floyd Snider



Matrix: Water
Data Release Authorized: *[Signature]*
Reported: 05/04/11

Project: Lora Lake Parcel
Event: POS-LL.4010
Date Sampled: NA
Date Received: NA

Analyte	Date/Time	Units	LCS	Spike Added	Recovery
pH	04/29/11	std units	6.98	7.00	0.02
Total Suspended Solids	05/03/11 14:25	mg/L	49.6	50.0	99.2%

pH is evaluated as the Absolute Difference between the values rather than Percent Recovery.

METHOD BLANK RESULTS-CONVENTIONALS
SU74-Floyd Snider



Matrix: Water
Data Release Authorized:
Reported: 05/04/11

A handwritten signature in black ink, appearing to be 'MS' or similar, written over the 'Data Release Authorized:' line.

Project: Lora Lake Parcel
Event: POS-LL.4010
Date Sampled: NA
Date Received: NA

Analyte	Date/Time	Units	Blank
Total Suspended Solids	05/03/11 14:25	mg/L	< 1.0 U

**SIM Volatile Raw Data
Initial Calibration Notes and Raw Data**

ARI Job ID: SU53, SU73, SU74



VOA Analyst Notes / Corrective Action Log

ARI Project ID: NT7 SIM Curve Client ID: _____

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

Parameter(s): SIM

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

Purge Volume (mL) 10 Curve Date: 4/26/11 Analysis Start Date: 4/26/11

pH ≤ 2.0 YES / NO / NA Method Blank In Control? YES / NO

BFB Tune Meets Criteria? YES / NO / NA LCS / LCSD Recovery In Control? YES / NO

Internal Standard Meets Criteria? YES / NO / NA Surrogate Recovery In Control? YES / NO

ICal acceptable? YES / NO CCal acceptable? YES / NO

Q flag applied? YES / NO / NA Q flag applied? YES / NO / NA

Manual Integrations for ICal? YES / NO Manual Integrations for Samples? Yes / NO

Special Analysis Criteria Met? YES / NO NA

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

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

all averaged

Additional Details on Reverse: Yes / No

Analyst: [Signature] Date: 5/4/11

Reviewer: [Signature] Date: 5/4/11

Analytical Resources Inc.: Volatile Organics Instrument Log

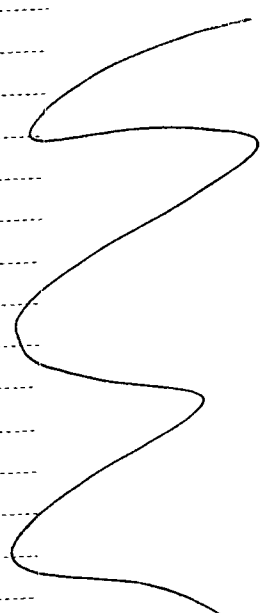
NT-7 Serial No.: GC=US00024417, MS=US72821196

Date: 4/26/11 Analysis: SM VOA Analyst: MH
 GC Program: VC Column No: 850322 Column Type: RTX VMS
 Instrument Tune (.U or .CT.): 0426001 EM Voltage: 1647
 Calibration File: 0426014 Curve Date: 4/26/11

IS/SS	Ical/Ccal	LCS/ICV
<u>VW 685-1</u>	<u>VW 682-2</u>	<u>VW 682-2</u>

INTERNAL STANDARD SUMMARY FOR DATABATCH - /chem1/nt7.i/26APR2011.b

Time	Filename	LabID	ClientID	WT
1 0607	0426001.d	BFB0426	BFB0426	0.00 | 0.00 | 0.00 | 0.00
2 0642	0426002.d	CC0426		1 | 5.32 | 332515 | 5.76 | 634854
3 0708	0426003.d	LCS0426		1 | 5.33 | 347755 | 5.75 | 657907
4 0849	0426004.d	40000426		1 | 5.32 | 417755 | 6.15 | 46790
5 0911	0426005.d	20000426		1 | 4.85 | 457 | 6.16 | 5993
6 0934	0426006.d	10000426		1 | 4.90 | 102 | 6.16 | 2762
7 0956	0426007.d	05000426		1 | 4.88 | 51 | 6.16 | 1307
8 1019	0426008.d	01000426		1 | 4.93 | 59 | 6.17 | 265
9 1042	0426009.d	00500426		1 | 4.93 | 40 | 6.11 | 21
10 1104	0426010.d	00200426		1 | 5.33 | 260930 | 5.77 | 507355
11 1130	0426011.d	00500426	50	1 | 5.33 | 338988 | 5.77 | 623089
12 1155	0426012.d	01000426	100	1 | 5.32 | 311045 | 5.76 | 572143
13 1221	0426013.d	05000426	500	1 | 5.32 | 310955 | 5.76 | 577506
14 1247	0426014.d	1000426	1000	1 | 5.33 | 363407 | 5.75 | 667797
15 1312	0426015.d	10000426		1 | 5.32 | 411992 | 5.76 | 753329
16 1337	0426016.d	20000426	2000	1 | 5.33 | 430008 | 5.75 | 798217
17 1403	0426017.d	40000426	4000	1 | 5.32 | 457509 | 5.76 | 848269
18 1429	0426018.d	ICV0426	ICV	1 | 5.33 | 428287 | 5.75 | 783828
19 1500	0426019.d	00200426	20	1 | 5.32 | 391217 | 5.76 | 742226


 MH
 5/4/11

Maintenance / Comments

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

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

MANUAL INTEGRATION SUMMARY FOR DATABATCH - /chem1/nt7.i/26APR2011.b

ARI Job No.: 0050 Method: sim042611.m Instrument: nt7.i Date: 26-APR-2011

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1130	0426011.d	00500426	50	1	cis-1,2-dichloroethene, Benzene, Trichloroethene, Trans-1,2-Dichloroethene, d4-1,2-Dichloroethane,
1155	0426012.d	01000426	100	1	cis-1,2-dichloroethene, Benzene, Trichloroethene, 1,1,2,2-Tetrachloroethane, Trans-1,2-Dichloroethene, d4-1,2-Dichloroethane,
1221	0426013.d	05000426	500	1	cis-1,2-dichloroethene, Benzene, Trichloroethene, Trans-1,2-Dichloroethene, d4-1,2-Dichloroethane,
1247	0426014.d	1000426	1000	1	cis-1,2-dichloroethene, Benzene, Trichloroethene, Trans-1,2-Dichloroethene, d4-1,2-Dichloroethane,
1337	0426016.d	20000426	2000	1	cis-1,2-dichloroethene, Benzene, Trichloroethene, Trans-1,2-Dichloroethene, d4-1,2-Dichloroethane,
1403	0426017.d	40000426	4000	1	cis-1,2-dichloroethene, Benzene, Trichloroethene, Trans-1,2-Dichloroethene, d4-1,2-Dichloroethane,
1429	0426018.d	ICV0426	ICV	1	NO MANUAL INTEGRATION
1500	0426019.d	00200426	20	1	NO MANUAL INTEGRATION

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-APR-2011 08:49
 End Cal Date : 26-APR-2011 15:00
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt7.i/26APR2011.b/sim042611.m
 Cal Date : 27-Apr-2011 06:43 monicah
 Curve Type : Average

Calibration File Names:

- Level 1: /chem1/nt7.i/26APR2011.b/0426019.d
- Level 2: /chem1/nt7.i/26APR2011.b/0426011.d
- Level 3: /chem1/nt7.i/26APR2011.b/0426012.d
- Level 4: /chem1/nt7.i/26APR2011.b/0426013.d
- Level 5: /chem1/nt7.i/26APR2011.b/0426014.d
- Level 6: /chem1/nt7.i/26APR2011.b/0426016.d
- Level 7: /chem1/nt7.i/26APR2011.b/0426017.d

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	500.000 Level 4	1000.000 Level 5	2000.000 Level 6	RRF	% RSD
4000.000 Level 7								
1 Vinyl Chloride	1.07153 0.89746	1.11025	1.23426	1.28098	1.13636	0.97283	1.10052	12.315
2 1,1-Dichloroethene	0.84199 0.68456	0.92800	1.00031	1.04732	0.87812	0.74915	0.87564	14.847
175 Trans-1,2-Dichloroethene	0.94564 0.71381	0.89189	0.99191	1.05283	0.88071	0.75035	0.88961	13.816
177 Acrylonitrile	++++ ++++	++++	++++	++++	++++	++++	++++	++++ <-
3 cis-1,2-dichloroethene	0.74971 0.80519	0.99537	1.08296	1.15781	0.99803	0.85897	0.94974	15.768
6 Benzene	2.66327 1.69591	2.35806	2.52669	2.58728	2.27560	1.91901	2.28941	15.740

Analytical Resources, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-APR-2011 08:49
 End Cal Date : 26-APR-2011 15:00
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem1/nt7.i/26APR2011.b/sim042611.m
 Cal Date : 27-Apr-2011 06:43 monicah
 Curve Type : Average

Compound	20.000	50.000	100.000	500.000	1000.000	2000.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	4000.000							
	Level 7							
176 1,2-Dichloroethane	1.29800 1.18539	1.42459	1.54399	1.77958	1.48203	1.25650	1.42431	14.189
8 Trichloroethene	0.39927 0.32332	0.41875	0.41799	0.45439	0.39069	0.34008	0.39208	11.758
10 Tetrachloroethene	0.27674 0.24911	0.29367	0.34493	0.36431	0.31698	0.27205	0.30255	13.727
11 1,1,2,2-Tetrachloroethane	0.31891 0.32125	0.36964	0.36276	0.42701	0.39667	0.33913	0.36220	11.002
\$ 5 d4-1,2-Dichloroethane	0.87402 0.84712	0.93416	0.94934	0.94171	0.89275	0.86897	0.90115	4.489
\$ 9 d8-Toluene	1.23795 1.29474	1.28407	1.25861	1.27736	1.28470	1.28000	1.27392	1.513

MH
5/4/11

Data File: /chem1/nt7.1/26APR2011.b/0426001.d

Date: 26-APR-2011 06:07

Client ID: BFB0426

Sample Info: BFB0426,BFB0426,1,26APR2011,,

Page 1

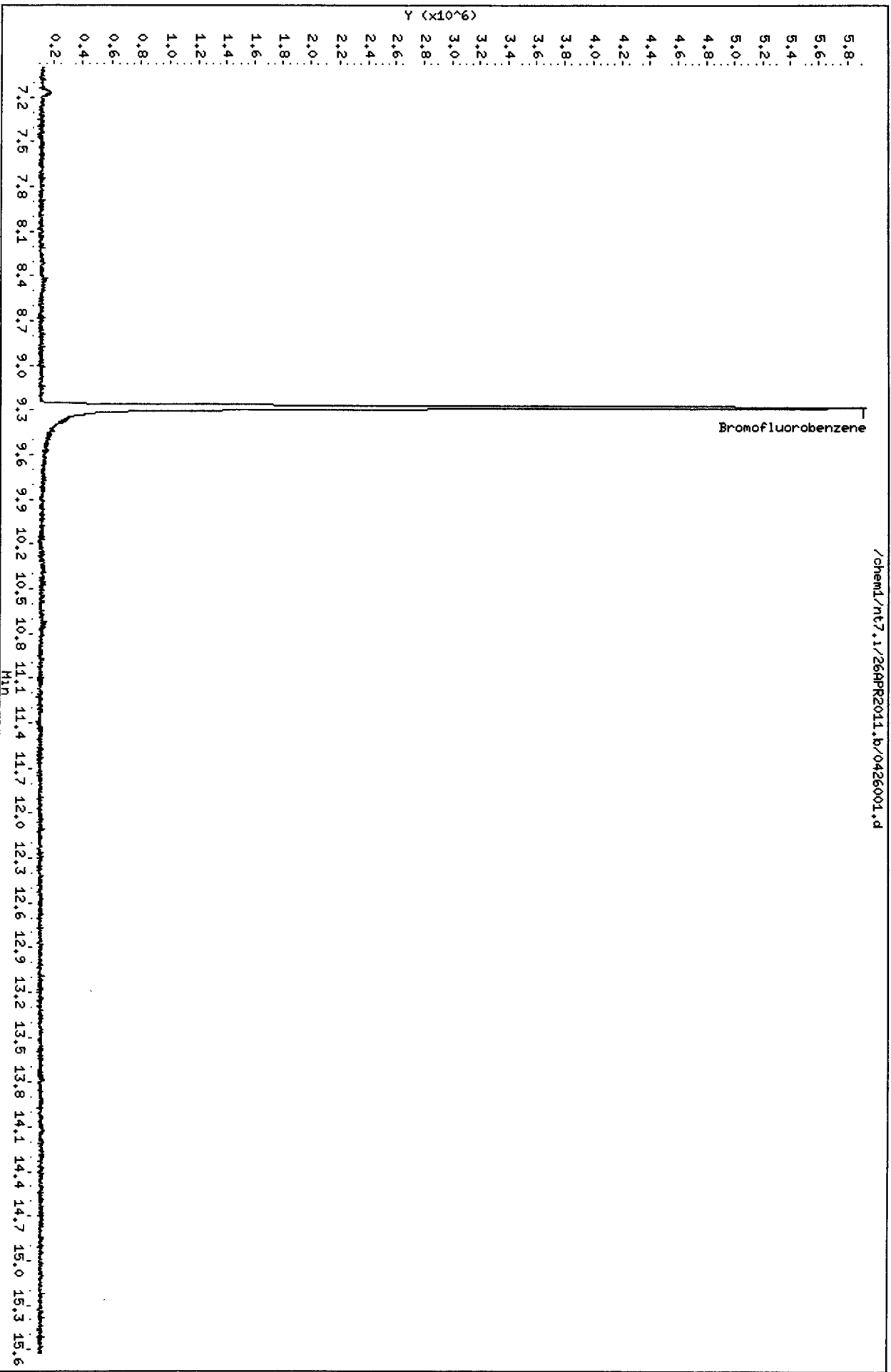
Instrument: nt7.i

Operator: MH

Column diameter: 0.18

Column phase: RTXVHS

/chem1/nt7.1/26APR2011.b/0426001.d



SU53 : 00285

Date : 26-APR-2011 06:07

Client ID: BFB0426

Instrument: nt7.i

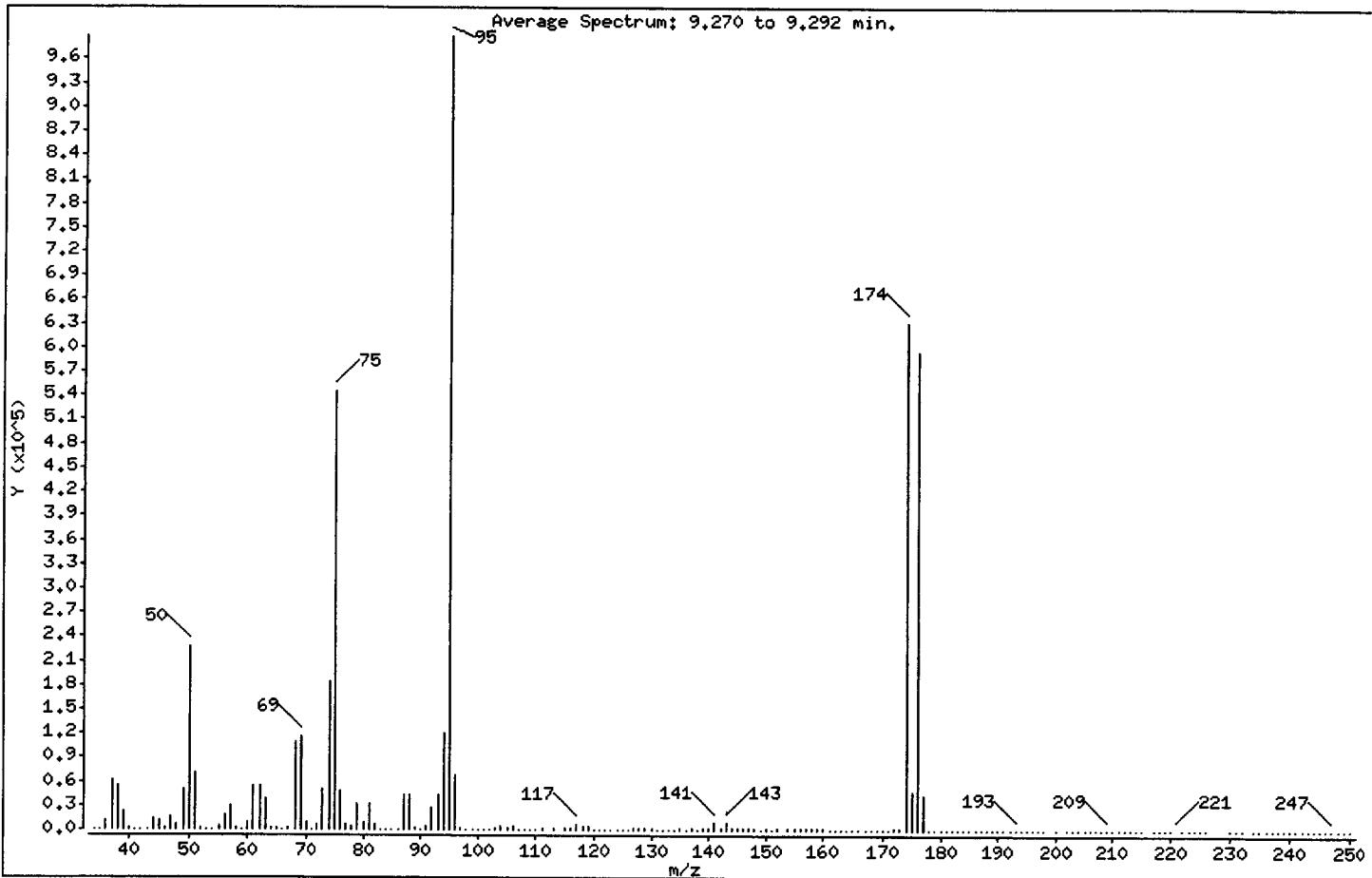
Sample Info: BFB0426,BFB0426,1,26APR2011,,

Operator: MH

Column phase: RTXVMS

Column diameter: 0,18

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100,00
50	8,00 - 40,00% of mass 95	22,92
75	30,00 - 66,00% of mass 95	55,15
96	5,00 - 9,00% of mass 95	6,93
173	Less than 2,00% of mass 174	0,26 (0,40)
174	50,00 - 101,00% of mass 95	63,80
175	4,00 - 9,00% of mass 174	4,72 (7,40)
176	93,00 - 101,00% of mass 174	60,13 (94,25)
177	5,00 - 9,00% of mass 176	4,28 (7,11)

Date : 26-APR-2011 06:07

Client ID: BFB0426

Instrument: nt7.1

Sample Info: BFB0426,BFB0426,1,26APR2011,,

Operator: MH

Column phase: RTXVMS

Column diameter: 0.18

Data File: 0426001.d

Spectrum: Average Spectrum: 9.270 to 9.292 min.

Location of Maximum: 95.00

Number of points: 217

m/z	Y	m/z	Y	m/z	Y	m/z	Y
| 34.00	568	| 89.00	1160	| 144.00	1839	| 199.00	267
| 35.00	681	| 90.00	901	| 145.00	1400	| 200.00	472
| 36.00	10929	| 91.00	4136	| 146.00	1776	| 201.00	348
| 37.00	61224	| 92.00	28256	| 147.00	1738	| 202.00	242
| 38.00	53952	| 93.00	43728	| 148.00	1774	| 203.00	273
| 39.00	22624	| 94.00	120184	| 149.00	954	| 204.00	342
| 40.00	1720	| 95.00	988096	| 150.00	1690	| 205.00	292
| 41.00	529	| 96.00	68488	| 151.00	777	| 206.00	441
| 42.00	381	| 97.00	2154	| 152.00	1598	| 207.00	466
| 43.00	716	| 98.00	273	| 153.00	776	| 208.00	287
| 44.00	13293	| 99.00	337	| 154.00	1441	| 209.00	630
| 45.00	11189	| 100.00	298	| 155.00	1607	| 210.00	511
| 46.00	1165	| 101.00	467	| 156.00	2252	| 211.00	404
| 47.00	17016	| 102.00	284	| 157.00	1272	| 212.00	351
| 48.00	6413	| 103.00	1310	| 158.00	1665	| 213.00	315
| 49.00	50088	| 104.00	4898	| 159.00	1422	| 214.00	395
| 50.00	226432	| 105.00	1262	| 160.00	1246	| 215.00	291
| 51.00	71136	| 106.00	4261	| 161.00	829	| 216.00	464
| 52.00	2624	| 107.00	1055	| 162.00	476	| 217.00	543
| 53.00	594	| 108.00	336	| 163.00	558	| 218.00	341
| 54.00	396	| 109.00	716	| 164.00	308	| 219.00	568
| 55.00	3576	| 110.00	967	| 165.00	505	| 220.00	302
| 56.00	18800	| 111.00	1577	| 166.00	458	| 221.00	598
| 57.00	29656	| 112.00	1017	| 167.00	169	| 222.00	202
| 58.00	2235	| 113.00	1145	| 168.00	260	| 223.00	595
| 59.00	432	| 114.00	968	| 169.00	497	| 224.00	484
| 60.00	9638	| 115.00	1360	| 170.00	865	| 225.00	349
| 61.00	53672	| 116.00	3284	| 171.00	668	| 226.00	498
| 62.00	54616	| 117.00	6319	| 172.00	3003	| 227.00	492
| 63.00	39296	| 118.00	3461	| 173.00	2538	| 228.00	270
| 64.00	2998	| 119.00	5181	| 174.00	630400	| 229.00	473
| 65.00	2794	| 120.00	927	| 175.00	46648	| 230.00	376
| 66.00	542	| 121.00	621	| 176.00	594112	| 231.00	311
| 67.00	1923	| 122.00	884	| 177.00	42264	| 232.00	20
| 68.00	109472	| 123.00	627	| 178.00	805	| 233.00	379

Date : 26-APR-2011 06:07

Client ID: BFB0426

Instrument: nt7.i

Sample Info: BFB0426,BFB0426,1,26APR2011,,

Operator: MH

Column phase: RTXVMS

Column diameter: 0.18

Data File: 0426001.d

Spectrum: Average Spectrum: 9.270 to 9.292 min.

Location of Maximum: 95.00

Number of points: 217

m/z	Y	m/z	Y	m/z	Y	m/z	Y
| 69.00	116808	| 124.00	846	| 179.00	592	| 234.00	117
| 70.00	8820	| 125.00	914	| 180.00	386	| 235.00	417
| 71.00	241	| 126.00	1100	| 181.00	428	| 236.00	421
| 72.00	6461	| 127.00	1845	| 182.00	297	| 237.00	570
| 73.00	50000	| 128.00	3004	| 183.00	231	| 238.00	558
| 74.00	184704	| 129.00	1219	| 184.00	369	| 239.00	417
| 75.00	544896	| 130.00	3227	| 185.00	488	| 240.00	181
| 76.00	48264	| 131.00	1042	| 186.00	603	| 241.00	249
| 77.00	6928	| 132.00	589	| 187.00	343	| 242.00	421
| 78.00	5213	| 133.00	852	| 188.00	644	| 243.00	425
| 79.00	31016	| 134.00	825	| 189.00	314	| 244.00	166
| 80.00	9237	| 135.00	1920	| 190.00	149	| 245.00	434
| 81.00	31840	| 136.00	580	| 191.00	605	| 246.00	632
| 82.00	6066	| 137.00	2101	| 192.00	573	| 247.00	695
| 83.00	1050	| 138.00	344	| 193.00	787	| 248.00	449
| 84.00	686	| 139.00	1142	| 194.00	474	| 249.00	410
| 85.00	484	| 140.00	1434	| 195.00	583	| 250.00	189
| 86.00	799	| 141.00	8345	| 196.00	476		
| 87.00	43920	| 142.00	2106	| 197.00	203		
| 88.00	42736	| 143.00	8004	| 198.00	155		

MH
5/4/11

Data File: /chem1/nt7.i/26APR2011.b/0426011.d
Report Date: 04-May-2011 09:21

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/26APR2011.b/0426011.d
Lab Smp Id: 00500426 Client Smp ID: 50
Inj Date : 26-APR-2011 11:30
Operator : MH Inst ID: nt7.i
Smp Info : 00500426,10,10,0,
Misc Info : 11-
Comment :
Method : /chem1/nt7.i/26APR2011.b/sim042611.m
Meth Date : 04-May-2011 06:35 monicah Quant Type: ISTD
Cal Date : 26-APR-2011 11:30 Cal File: 0426011.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			AMOUNTS		
	MASS	RT	EXP RT REL RT	RESPONSE	CAL-AMT (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62	1.552	1.554 (0.291)	18818	50.0000	50.442
2 1,1-Dichloroethene	96	2.510	2.510 (0.471)	15729	50.0000	52.990
175 Trans-1,2-Dichloroethene	96	3.289	3.289 (0.618)	15117	50.0000	50.129 (M)
3 cis-1,2-dichloroethene	96	4.444	4.444 (0.835)	16871	50.0000	52.403 (M)
6 Benzene	78	5.221	5.212 (0.906)	73464	50.0000	51.499 (M)
* 4 Pentafluorobenzene	168	5.325	5.326 (1.000)	338988	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.335	5.335 (1.002)	316669	1000.00	1036.6 (M)
176 1,2-Dichloroethane	62	5.392	5.392 (1.012)	24146	50.0000	50.010
8 Trichloroethene	130	5.720	5.720 (0.992)	13046	50.0000	53.403 (M)
* 7 1,4-Difluorobenzene	114	5.766	5.754 (1.000)	623089	1000.00	
\$ 9 d8-Toluene	98	6.915	6.914 (1.199)	800088	1000.00	1008.0
10 Tetrachloroethene	166	7.283	7.271 (1.263)	9149	50.0000	48.533
11 1,1,2,2-Tetrachloroethane	83	9.481	9.458 (1.644)	11516	50.0000	51.028

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0426011.d
Lab Smp Id: 00500426
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem1/nt7.i/26APR2011.b/sim042611.m
Misc Info: 11-

Calibration Date: 26-APR-2011
Calibration Time: 12:47
Client Smp ID: 50
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	363407	181704	726814	338988	-6.72
7 1,4-Difluorobenze	667797	333898	1335594	623089	-6.69

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.33	4.83	5.83	5.33	-0.01
7 1,4-Difluorobenze	5.75	5.25	6.25	5.77	0.20

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

Data File: /chem1/nt7.i/26APR2011.b/0426011.d

Date: 26-APR-2011 11:30

Client ID: 50

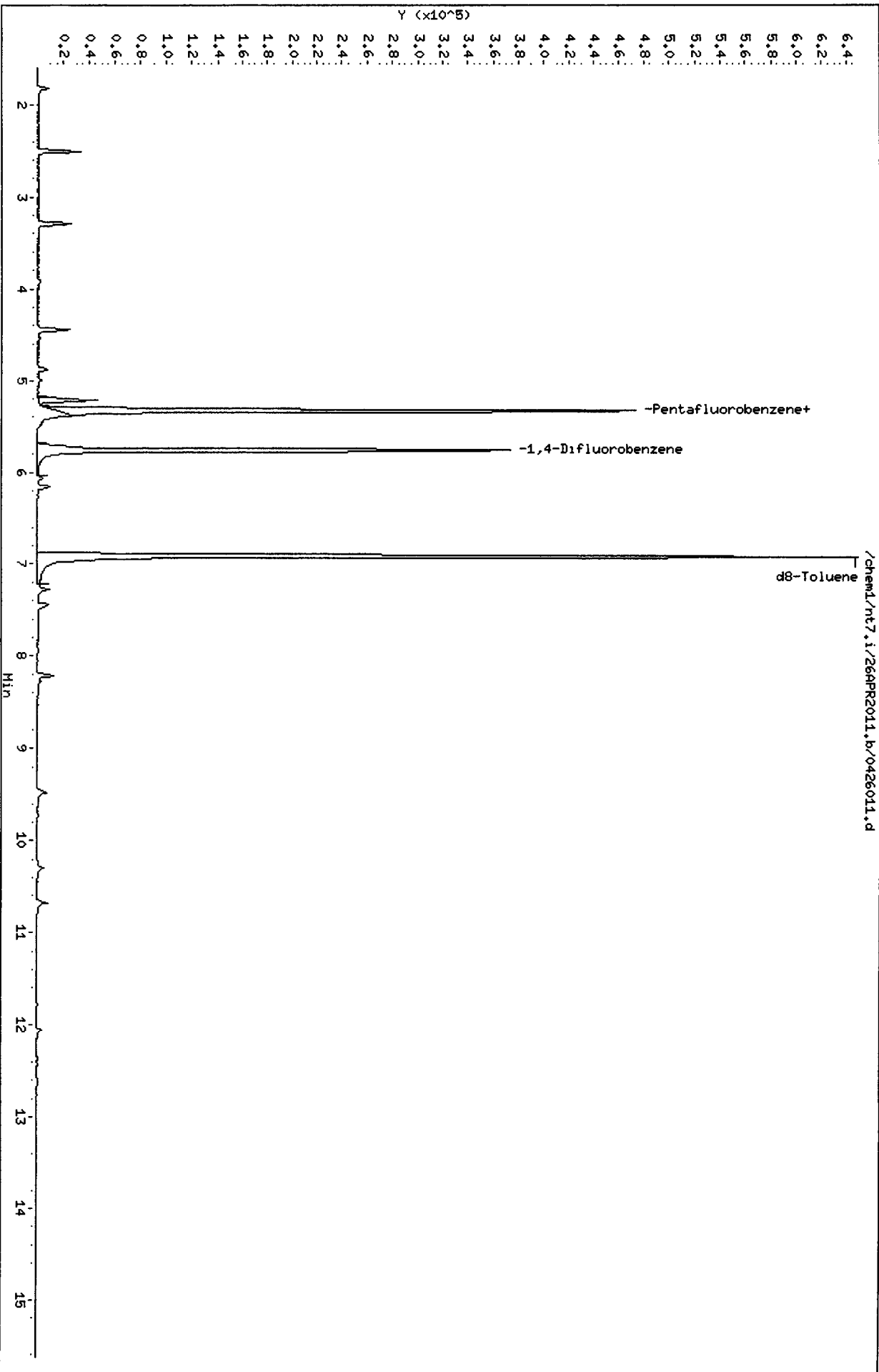
Sample Info: 00500426,10,10,0,

Column phase: RTXVHS

Instrument: nt7.i

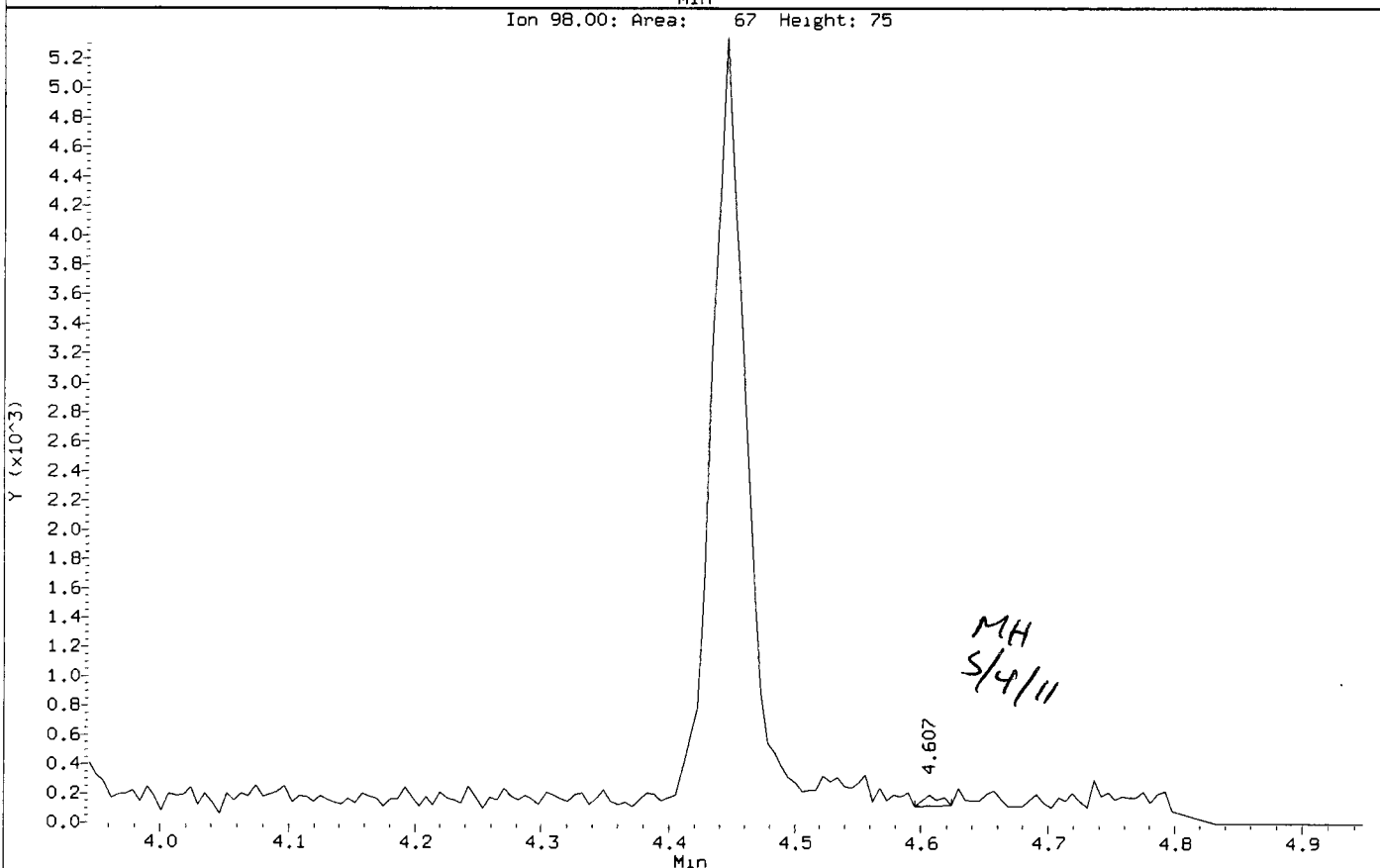
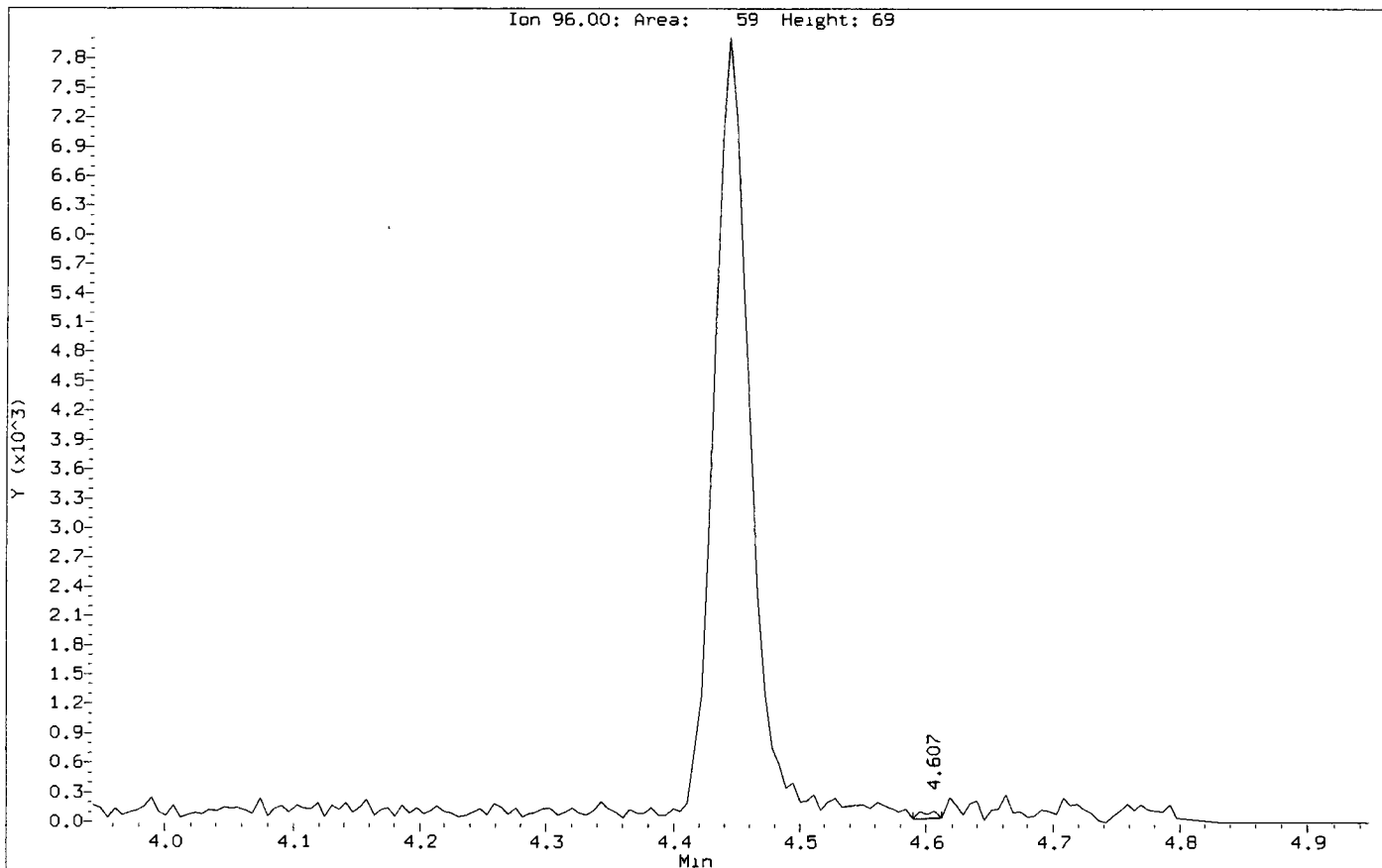
Operator: MH

Column diameter: 0.18



Data File: /chem1/nt7.1/26APR2011.b/0426011.d
Injection Date: 26-APR-2011 11:30
Instrument: nt7.1
Client Sample ID: 50

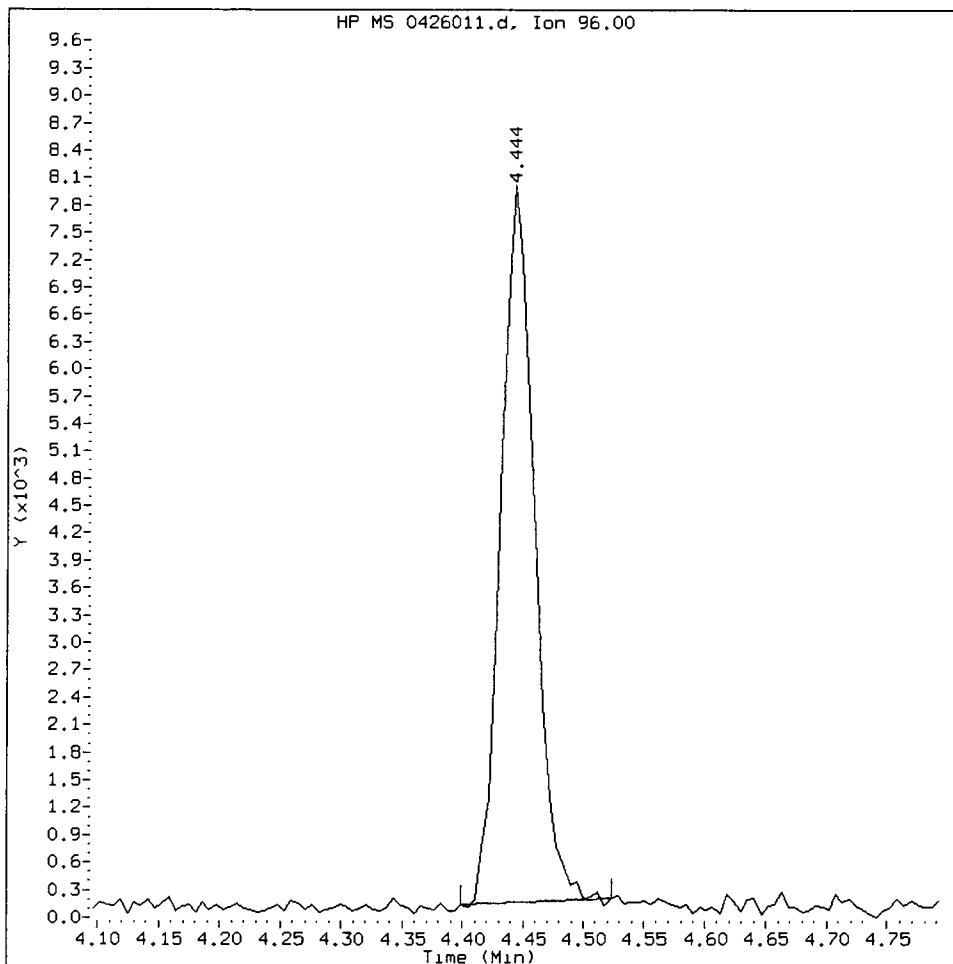
Compound: cis-1,2-dichloroethene
CAS Number:



SU53: 00293

00500426, /chem1/nt7.i/26APR2011.b/0426011.d

cis-1,2-dichloroethene Amount: 52.40 Area: 16871



MANUAL INTEGRATION for cis-1,2-dichloroethene

1. Baseline correction
2. Poor chromatography
- ~~3~~ Peak not found
4. Totals calculation

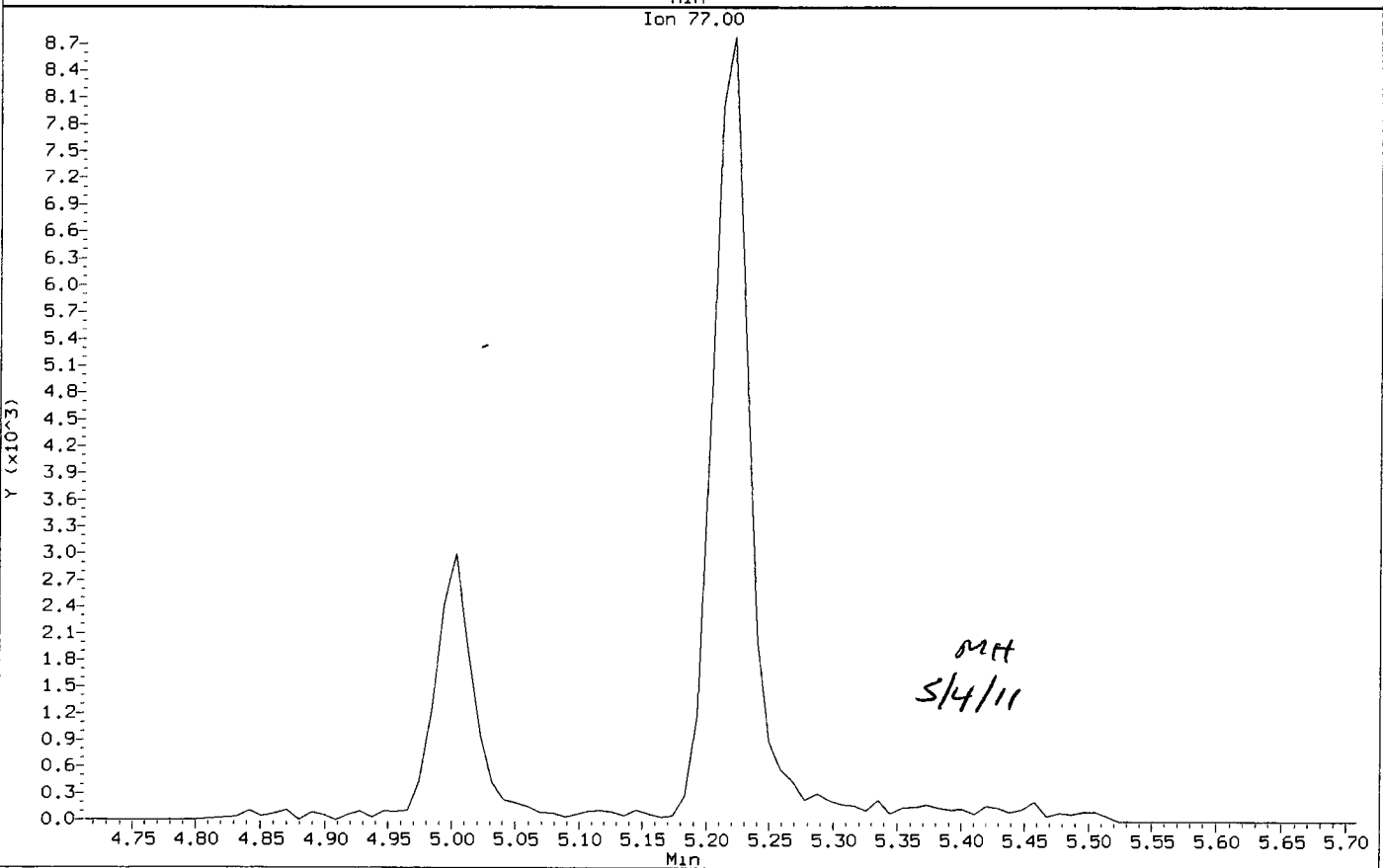
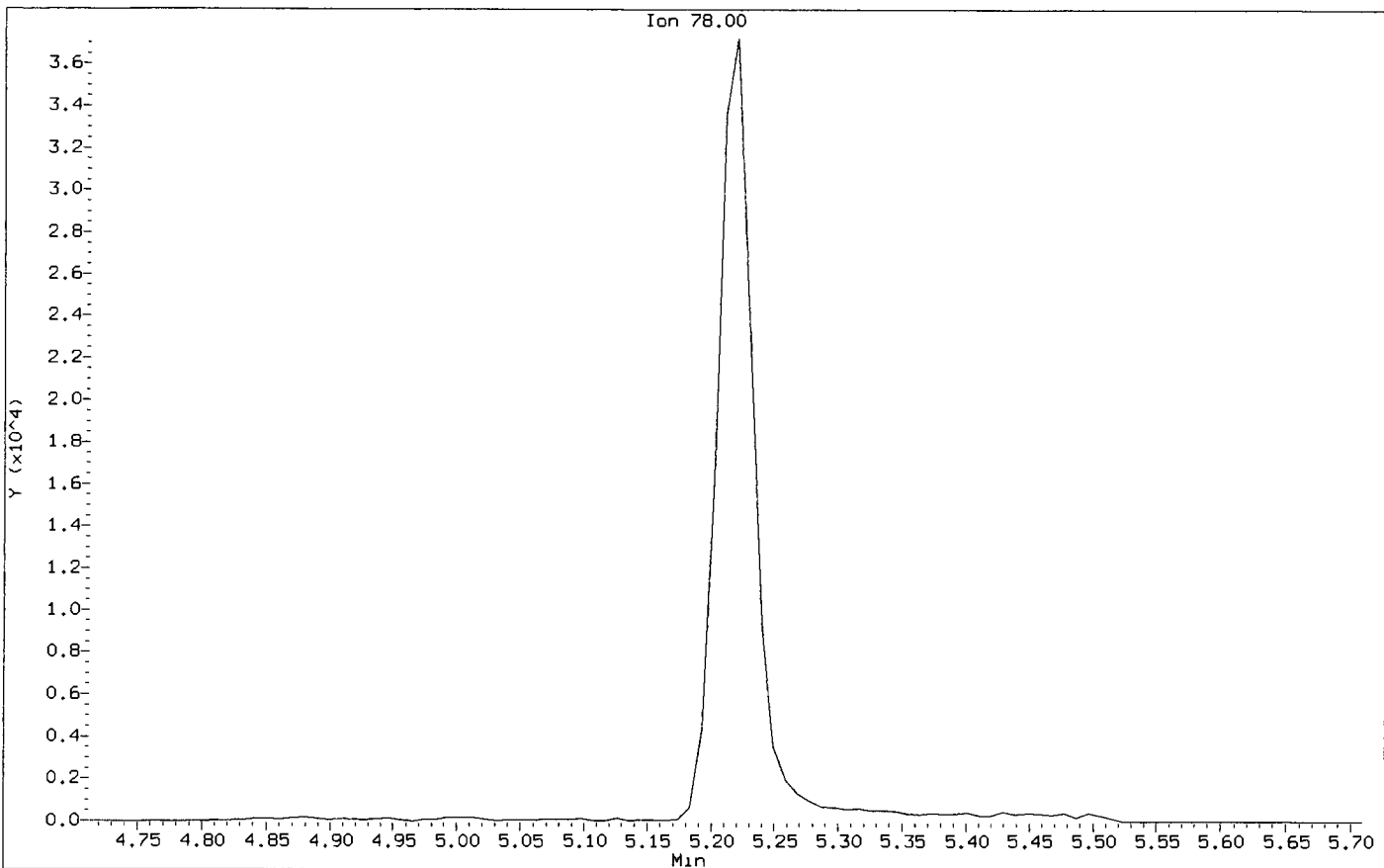
5. Other _____

Analyst: M4

Date: 5/4/11

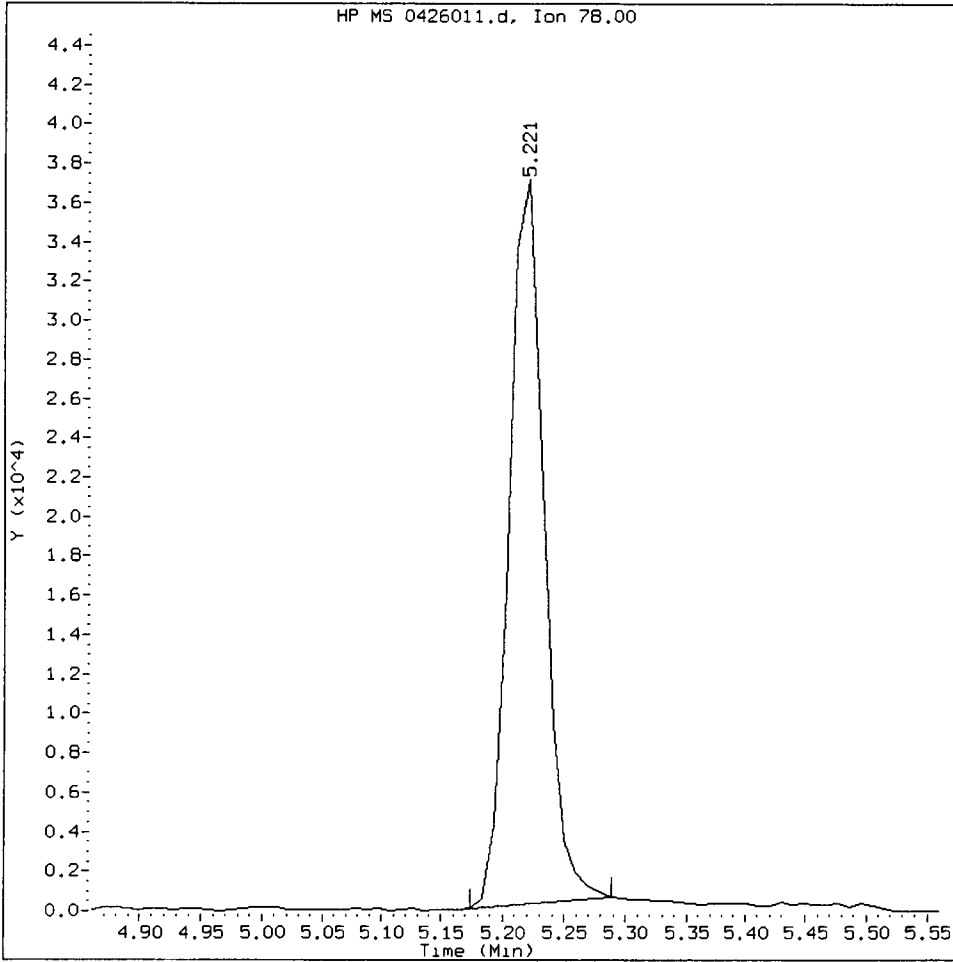
Data File: /chem1/nt7.1/26APR2011.b/0426011.d
Injection Date: 26-APR-2011 11:30
Instrument: nt7.1
Client Sample ID: 50

Compound: Benzene
CAS Number:



00500426, /chem1/nt7.i/26APR2011.b/0426011.d

Benzene Amount: 51.50 Area: 73464



MANUAL INTEGRATION for Benzene

1. Baseline correction
2. Poor chromatography
- ~~3.~~ Peak not found
4. Totals calculation

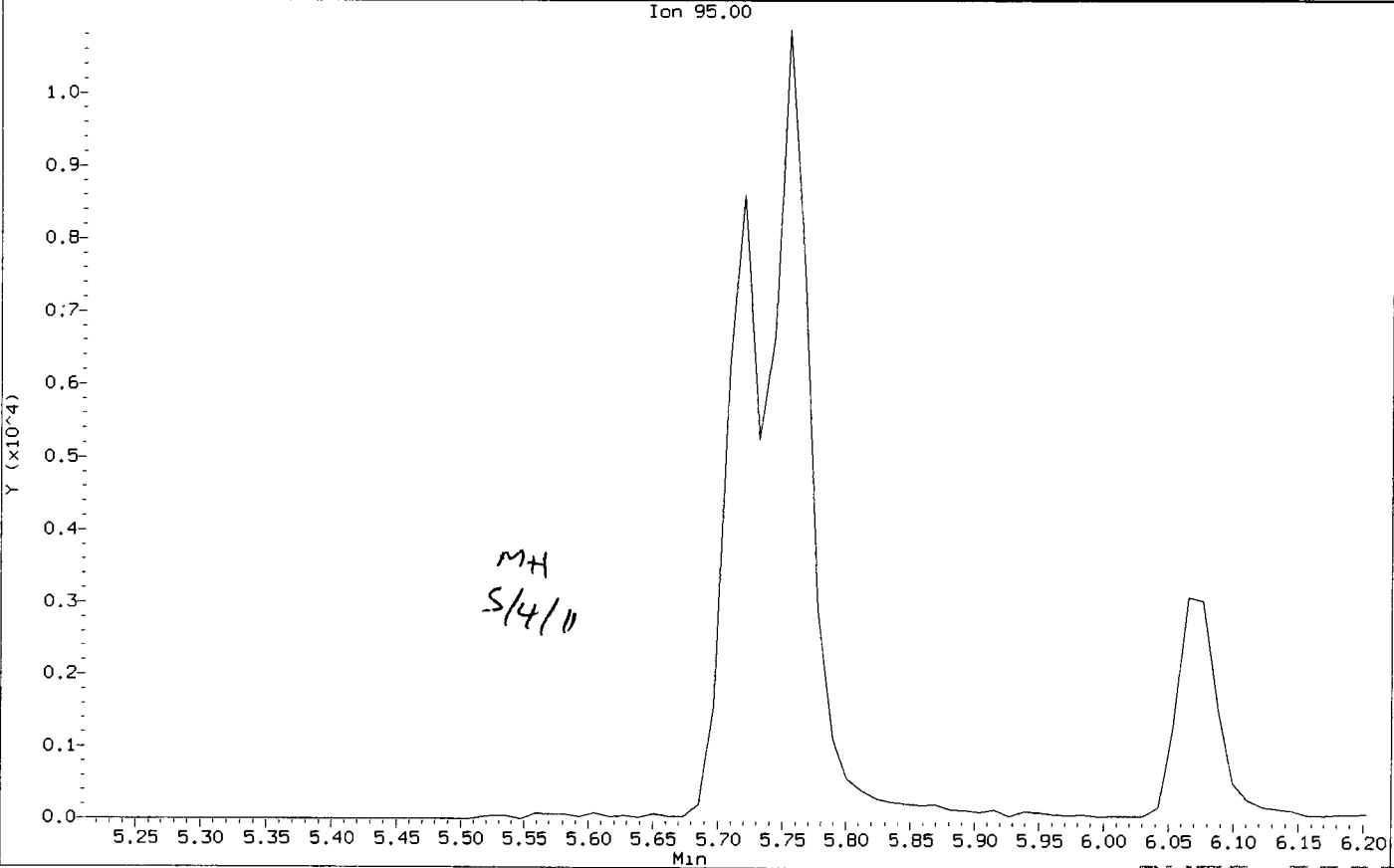
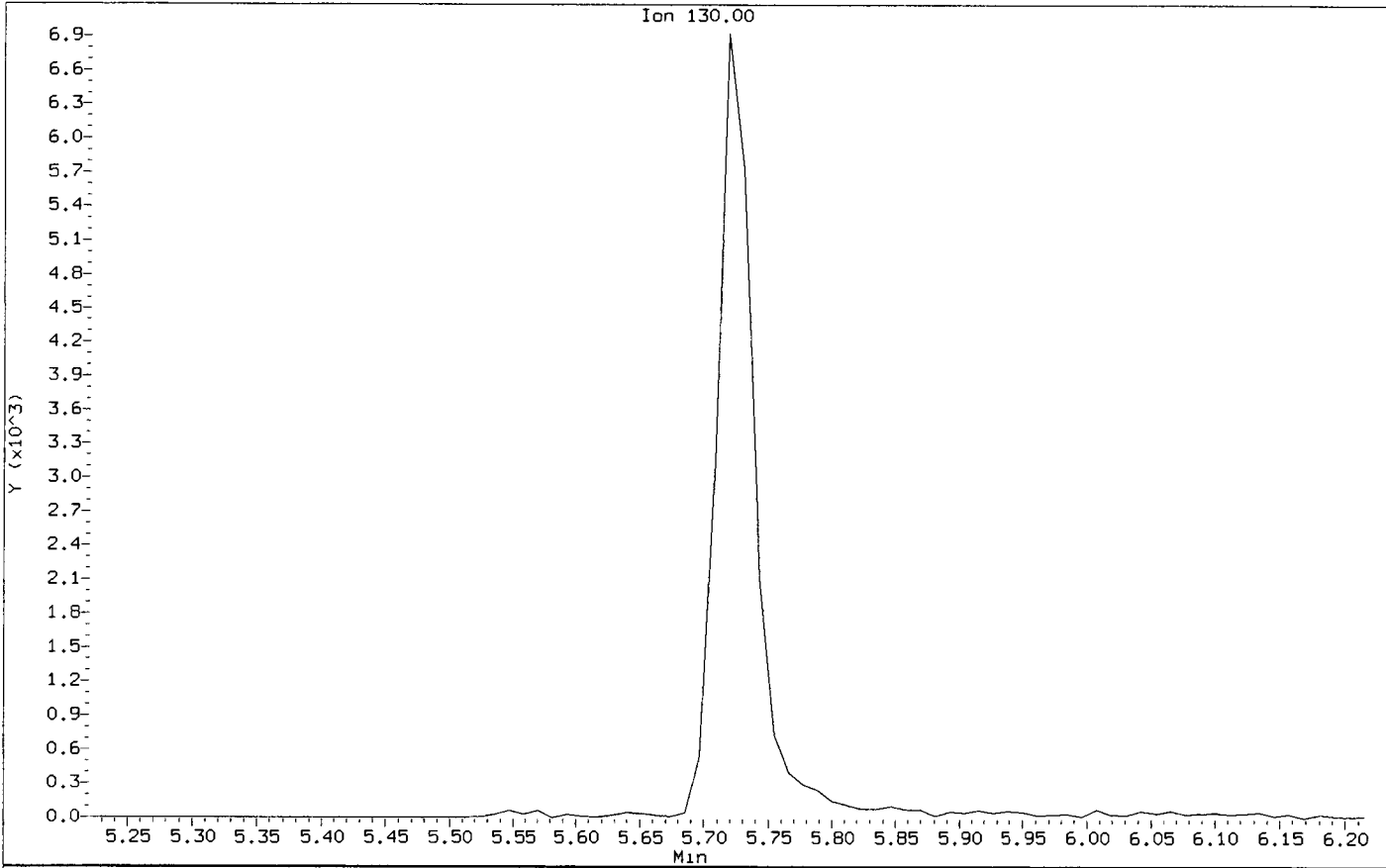
5. Other _____

Analyst: MH

Date: 5/4/11

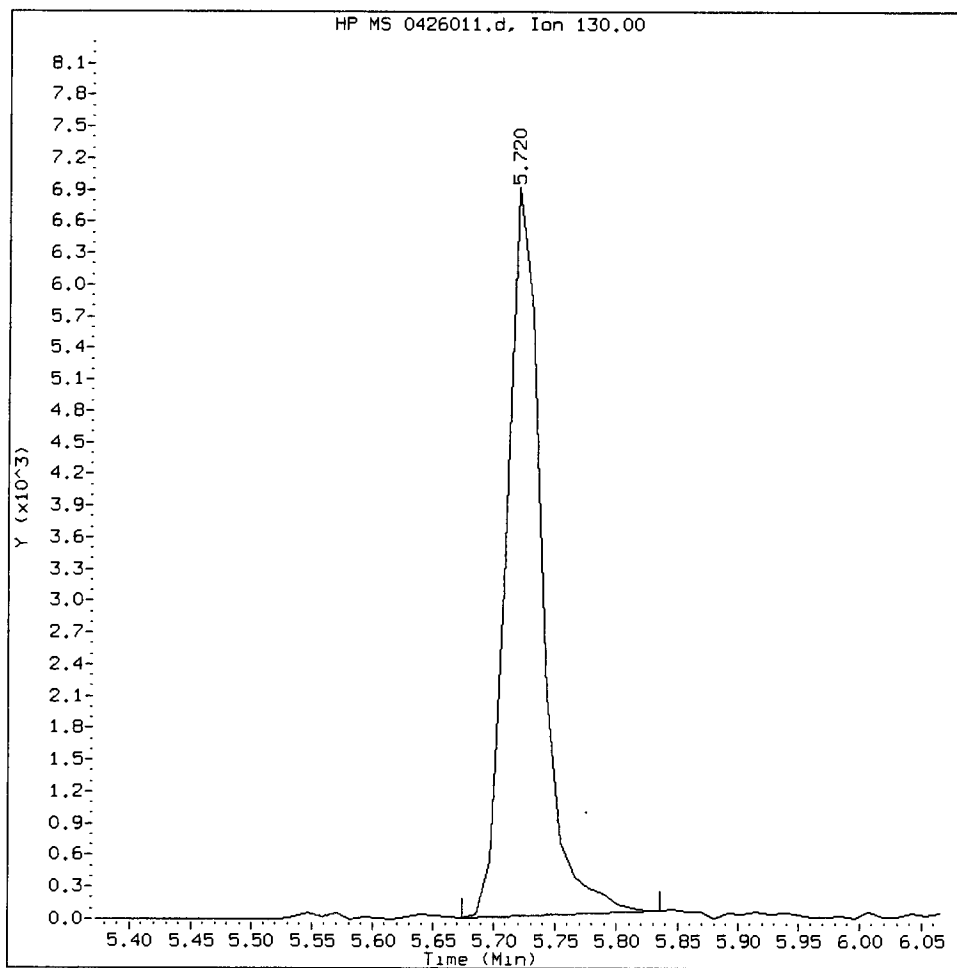
Data File: /chem1/nt7.i/26APR2011.b/0426011.d
Injection Date: 26-APR-2011 11:30
Instrument: nt7.1
Client Sample ID: 50

Compound: Trichloroethene
CAS Number:



00500426, /chem1/nt7.i/26APR2011.b/0426011.d

Trichloroethene Amount: 53.40 Area: 13046



MANUAL INTEGRATION for Trichloroethene

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

5. Other _____

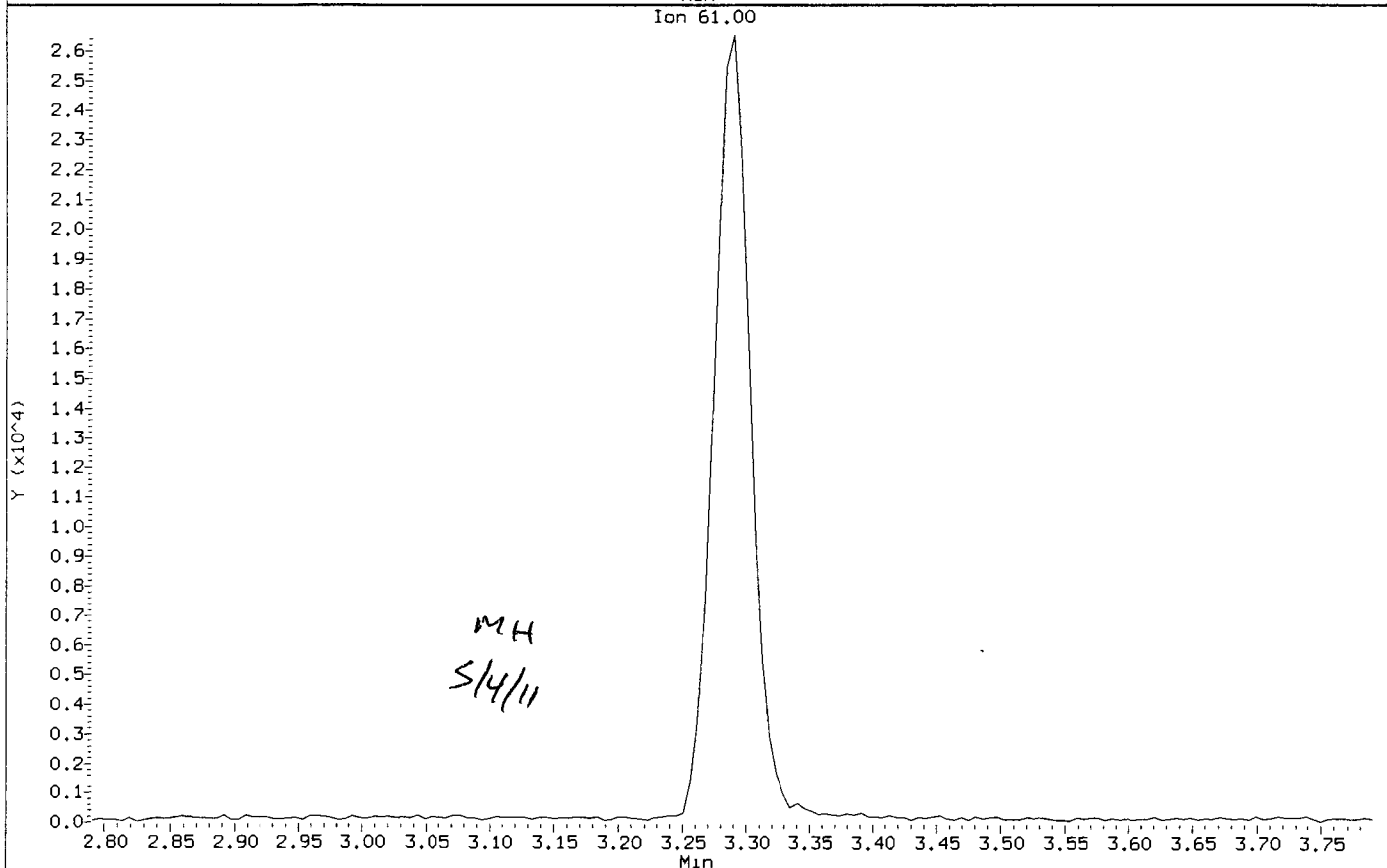
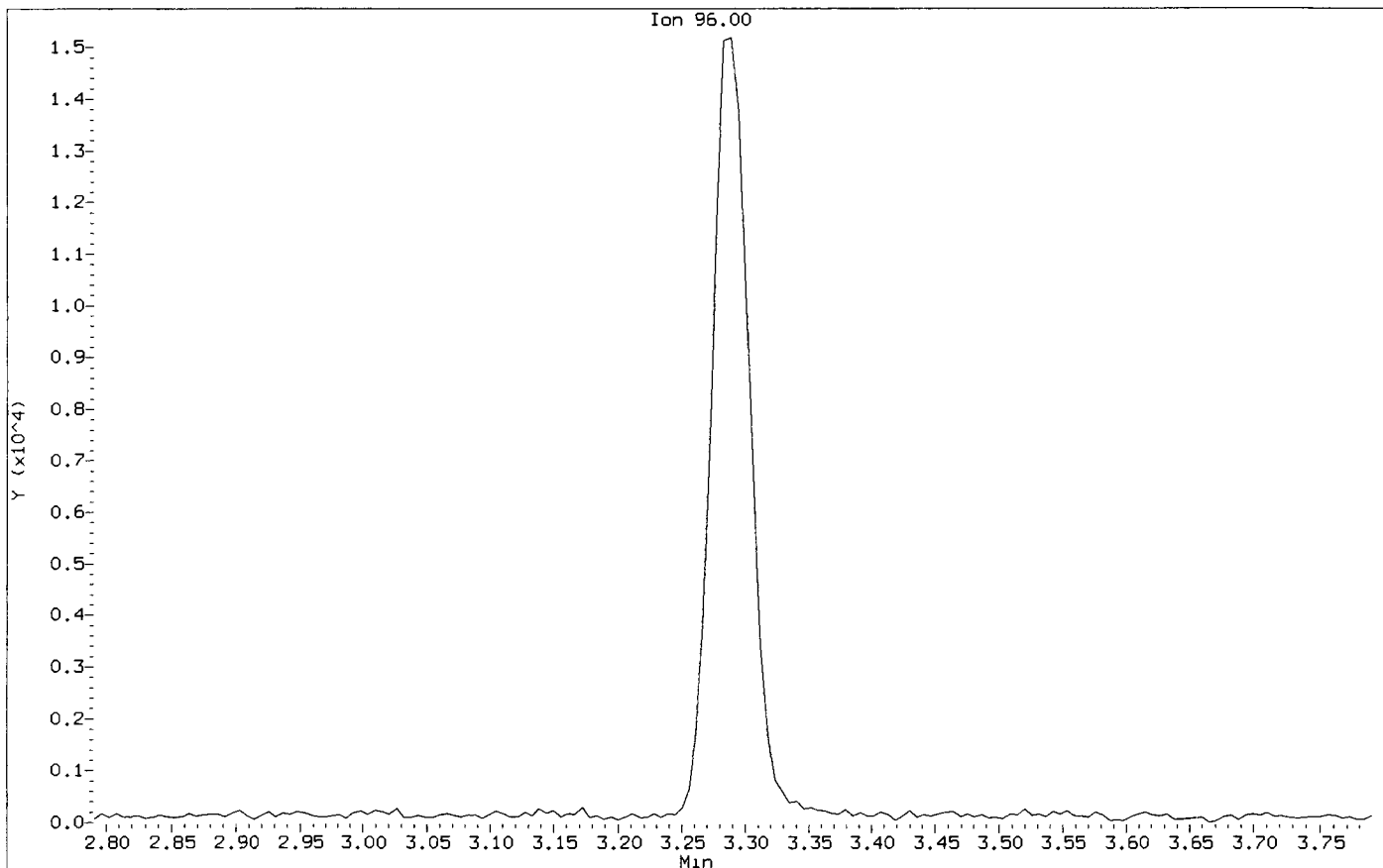
Analyst: MH

Date: 5/4/11

SU53:00298

Data File: /chem1/nt7.1/26APR2011.b/0426012.d
Injection Date: 26-APR-2011 11:55
Instrument: nt7.1
Client Sample ID: 100

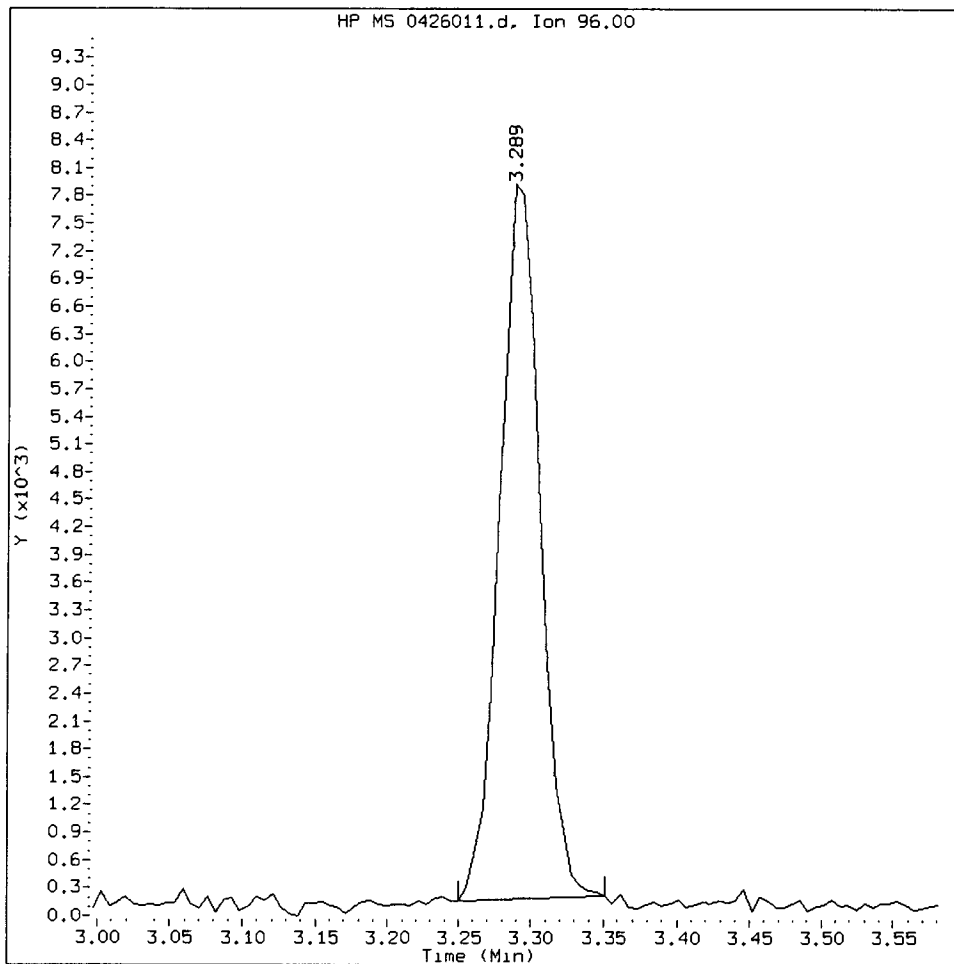
Compound: Trans-1,2-Dichloroethene
CAS Number:



SU53: 00299

00500426, /chem1/nt7.i/26APR2011.b/0426011.d

Trans-1,2-Dichloroethene Amount: 50.13 Area: 15117



MANUAL INTEGRATION for Trans-1,2-Dichloroethene

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

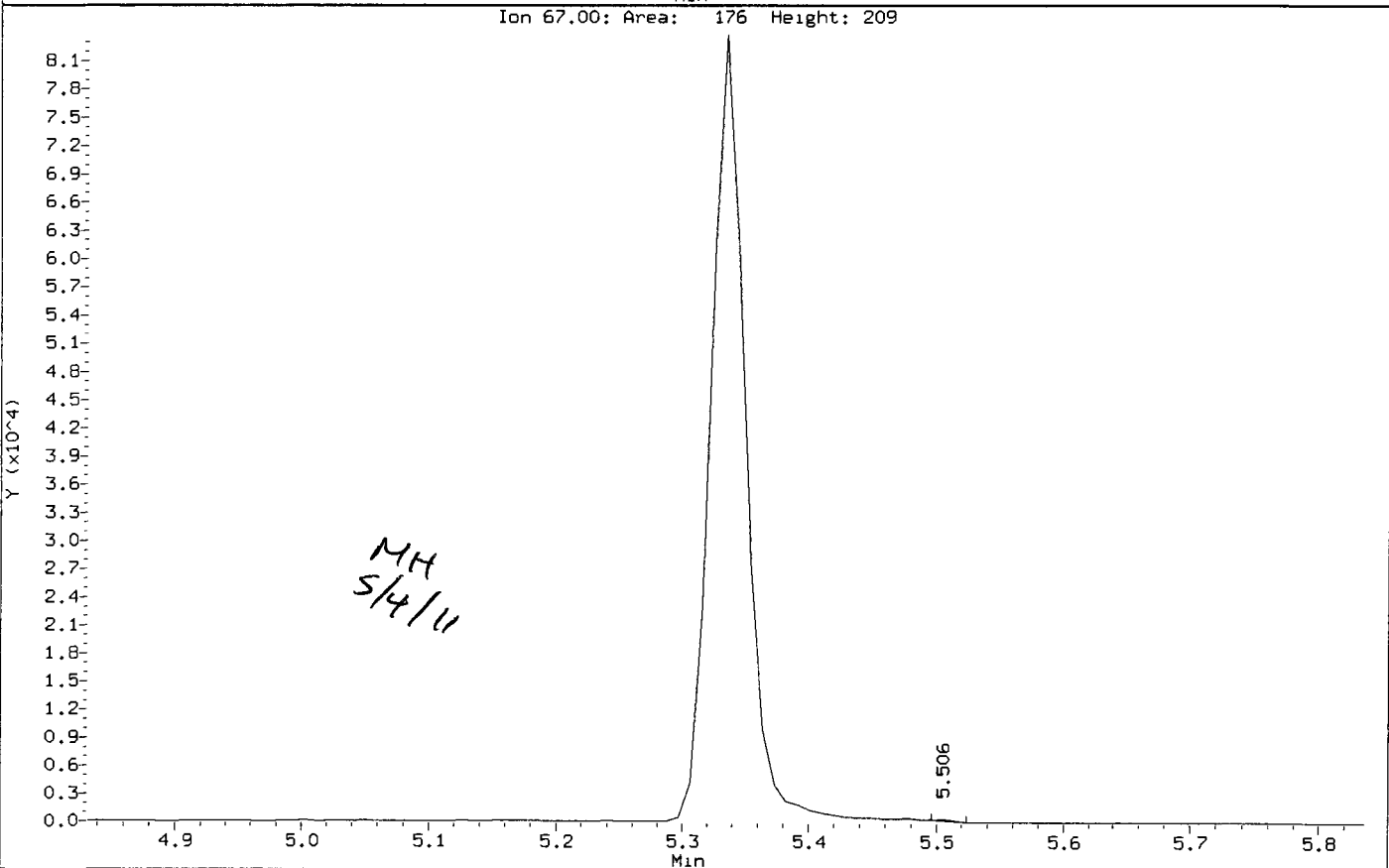
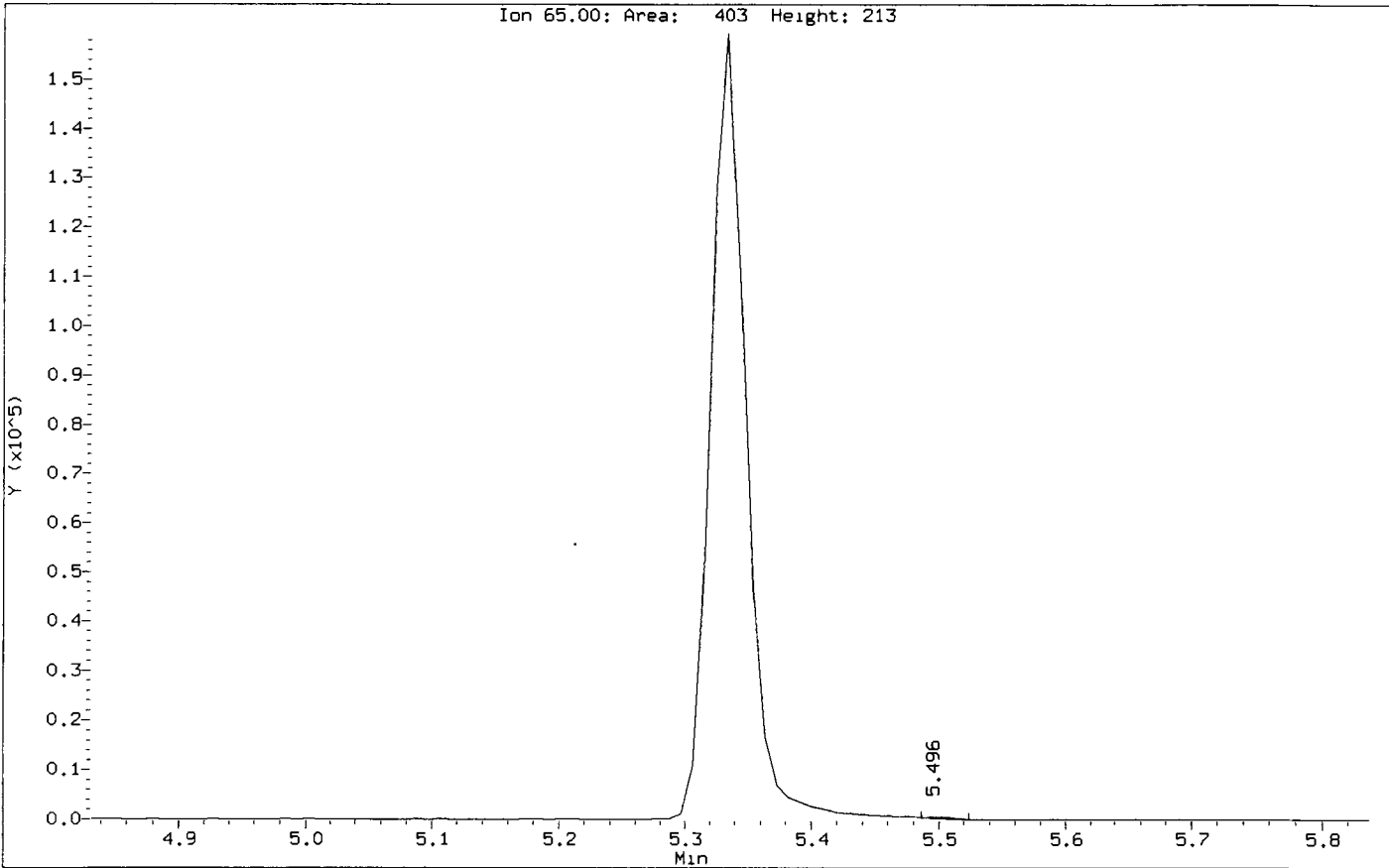
5. Other _____

Analyst: MH

Date: 5/4/11

Data File: /chem1/nt7.1/26APR2011.b/0426011.d
Injection Date: 26-APR-2011 11:30
Instrument: nt7.1
Client Sample ID: 50

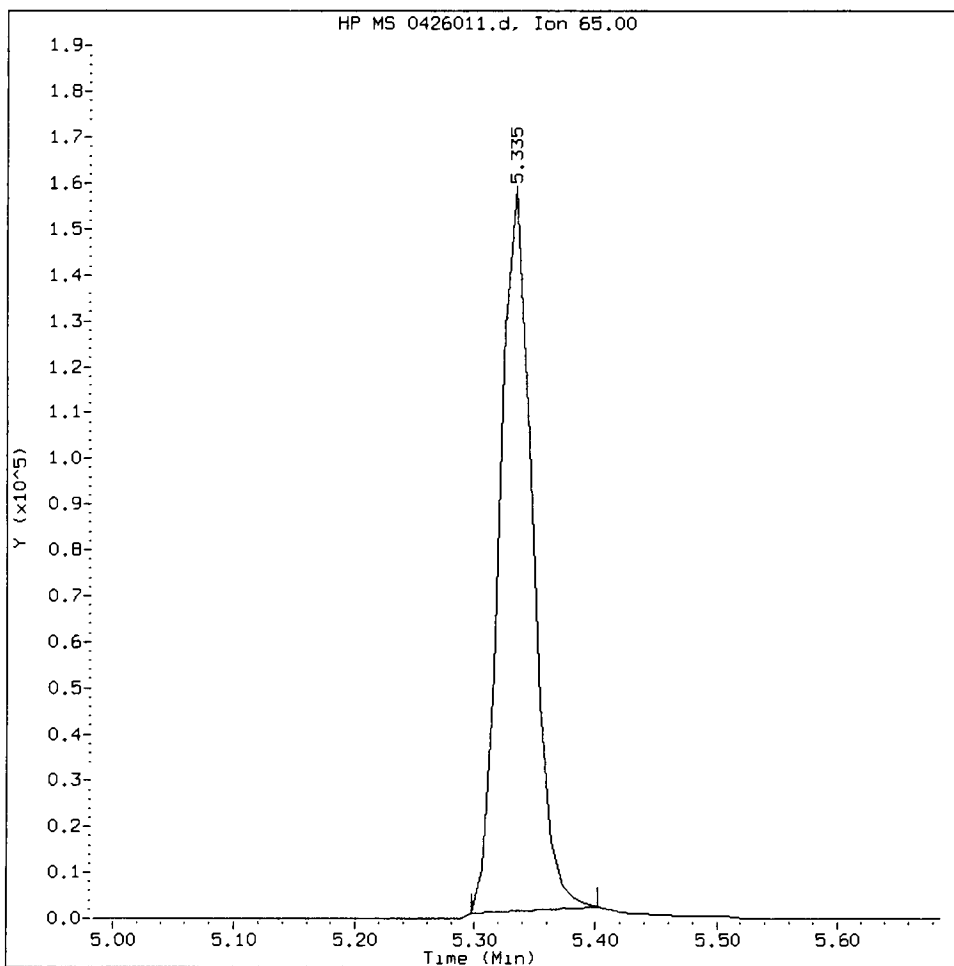
Compound: d4-1,2-Dichloroethane
CAS Number:



SU53: 00301

00500426, /chem1/nt7.i/26APR2011.b/0426011.d

d4-1,2-Dichloroethane Amount: 1036.63 Area: 316669



MANUAL INTEGRATION for d4-1,2-Dichloroethane

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

5. Other _____

Analyst: MH

Date: 5/4/11

CO-ELUTION SUMMARY FOR FILE - 0426011.d

Lab ID: 00500426, Method: sim042611.m, Instrument: nt7.i, Date: 26-APR-2011

RT CO-ELUTION COMPOUNDS

MH
5/4/11

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/26APR2011.b/0426012.d
 Lab Smp Id: 01000426 Client Smp ID: 100
 Inj Date : 26-APR-2011 11:55
 Operator : MH Inst ID: nt7.i
 Smp Info : 01000426,10,10,0,
 Misc Info : 11-
 Comment :
 Method : /chem1/nt7.i/26APR2011.b/sim042611.m
 Meth Date : 04-May-2011 06:35 monicah Quant Type: ISTD
 Cal Date : 26-APR-2011 11:55 Cal File: 0426012.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sim12dca.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG			AMOUNTS		
	MASS	RT	EXP RT REL RT	RESPONSE	CAL-AMT (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62	1.552	1.554 (0.292)	38391	100.000	112.15
2 1,1-Dichloroethene	96	2.505	2.510 (0.470)	31114	100.000	114.24
175 Trans-1,2-Dichloroethene	96	3.290	3.289 (0.618)	30853	100.000	111.50 (M)
3 cis-1,2-dichloroethene	96	4.439	4.444 (0.834)	33685	100.000	114.03 (M)
6 Benzene	78	5.220	5.212 (0.907)	144563	100.000	110.36 (M)
* 4 Pentafluorobenzene	168	5.324	5.326 (1.000)	311045	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.333	5.335 (1.002)	295289	1000.00	1053.5 (M)
176 1,2-Dichloroethane	62	5.390	5.392 (1.012)	48025	100.000	108.40
8 Trichloroethene	130	5.721	5.720 (0.994)	23915	100.000	106.61 (M)
* 7 1,4-Difluorobenzene	114	5.755	5.754 (1.000)	572143	1000.00	
\$ 9 d8-Toluene	98	6.913	6.914 (1.201)	720104	1000.00	987.98
10 Tetrachloroethene	166	7.281	7.271 (1.265)	19735	100.000	114.01
11 1,1,2,2-Tetrachloroethane	83	9.468	9.458 (1.645)	20755	100.000	100.16 (M)

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 0426012.d
 Lab Smp Id: 01000426
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: MH
 Method File: /chem1/nt7.i/26APR2011.b/sim042611.m
 Misc Info: 11-

Calibration Date: 26-APR-2011
 Calibration Time: 12:47
 Client Smp ID: 100
 Level: LOW
 Sample Type: WATER

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	363407	181704	726814	311045	-14.41
7 1,4-Difluorobenze	667797	333898	1335594	572143	-14.32

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.33	4.83	5.83	5.32	-0.03
7 1,4-Difluorobenze	5.75	5.25	6.25	5.76	0.02

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

Data File: /chem1/nt7.i/26APR2011.b/0426012.d

Date : 26-APR-2011 11:55

Client ID: 100

Sample Info: 01000426,10,10,0,

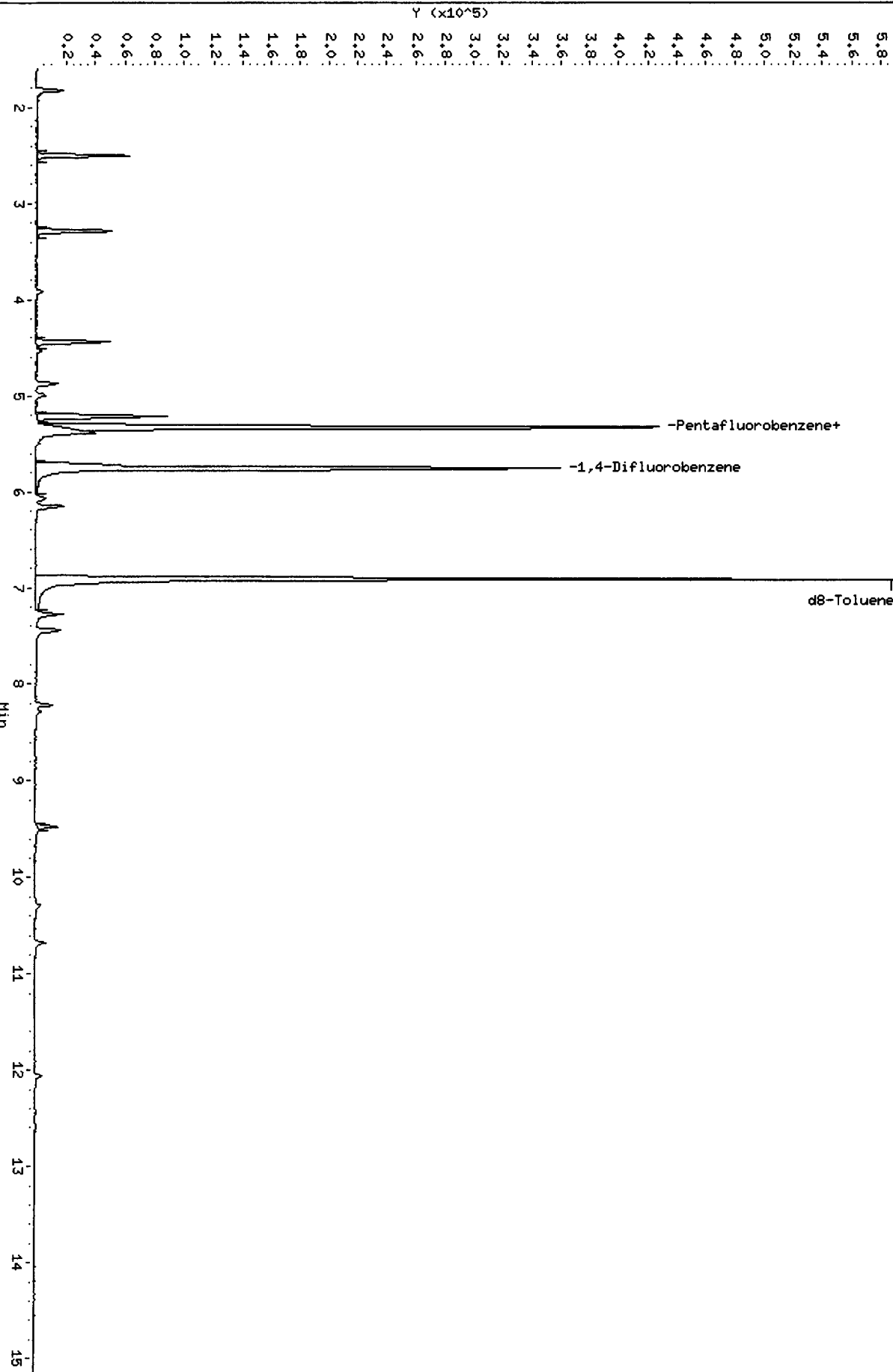
Column phase: RTXVHS

Instrument: nt7.i

Operator: HH

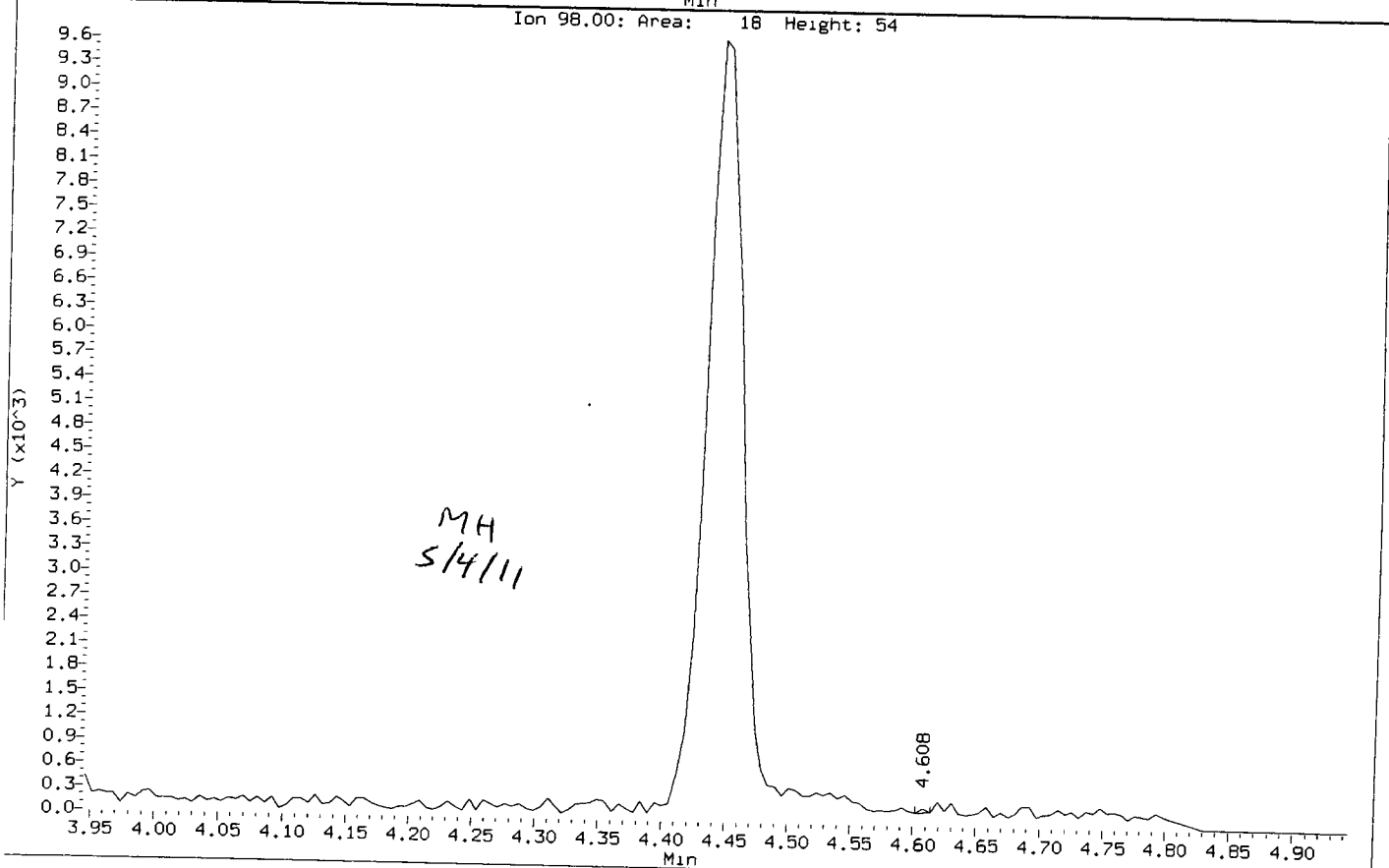
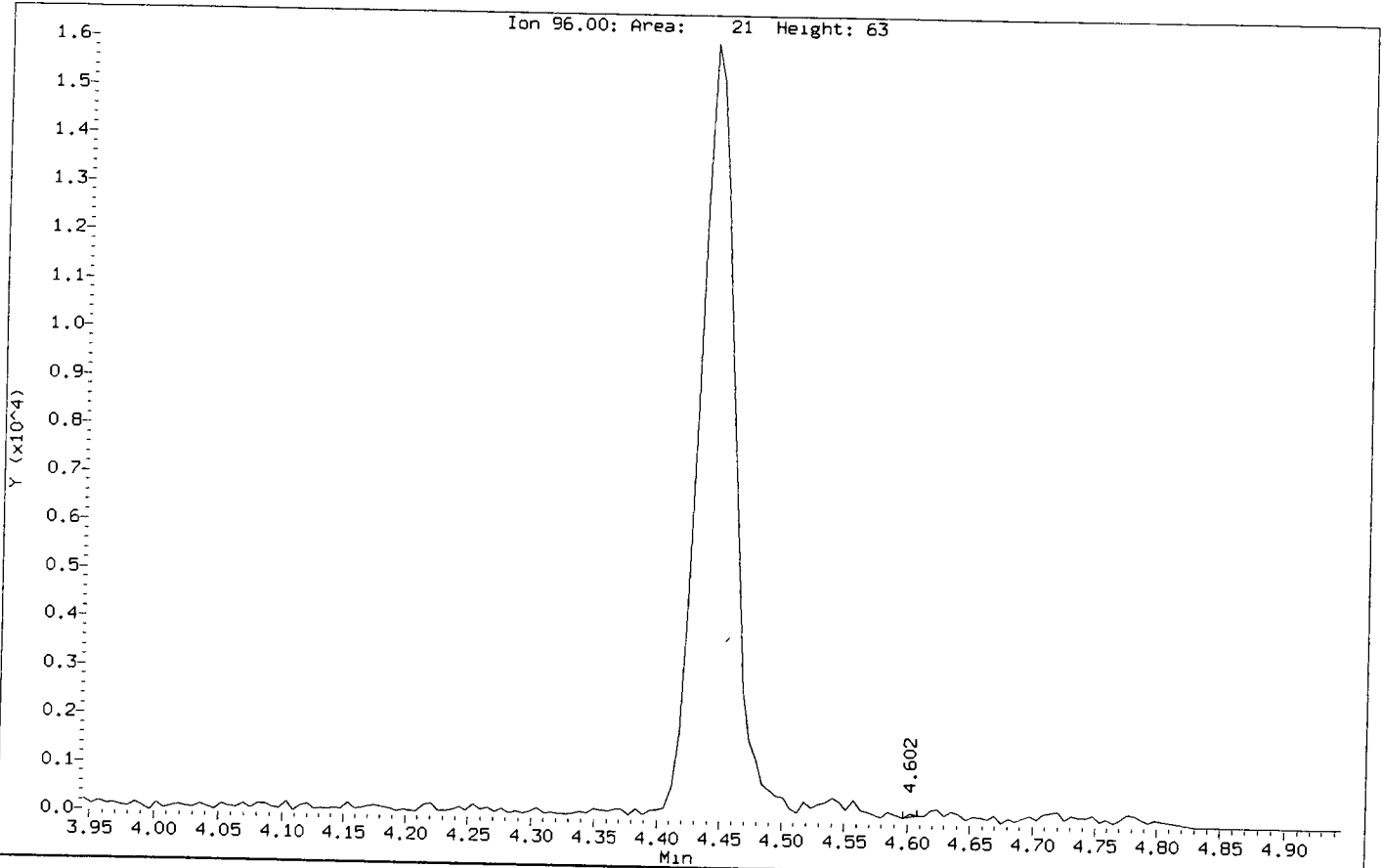
Column diameter: 0.18

/chem1/nt7.i/26APR2011.b/0426012.d



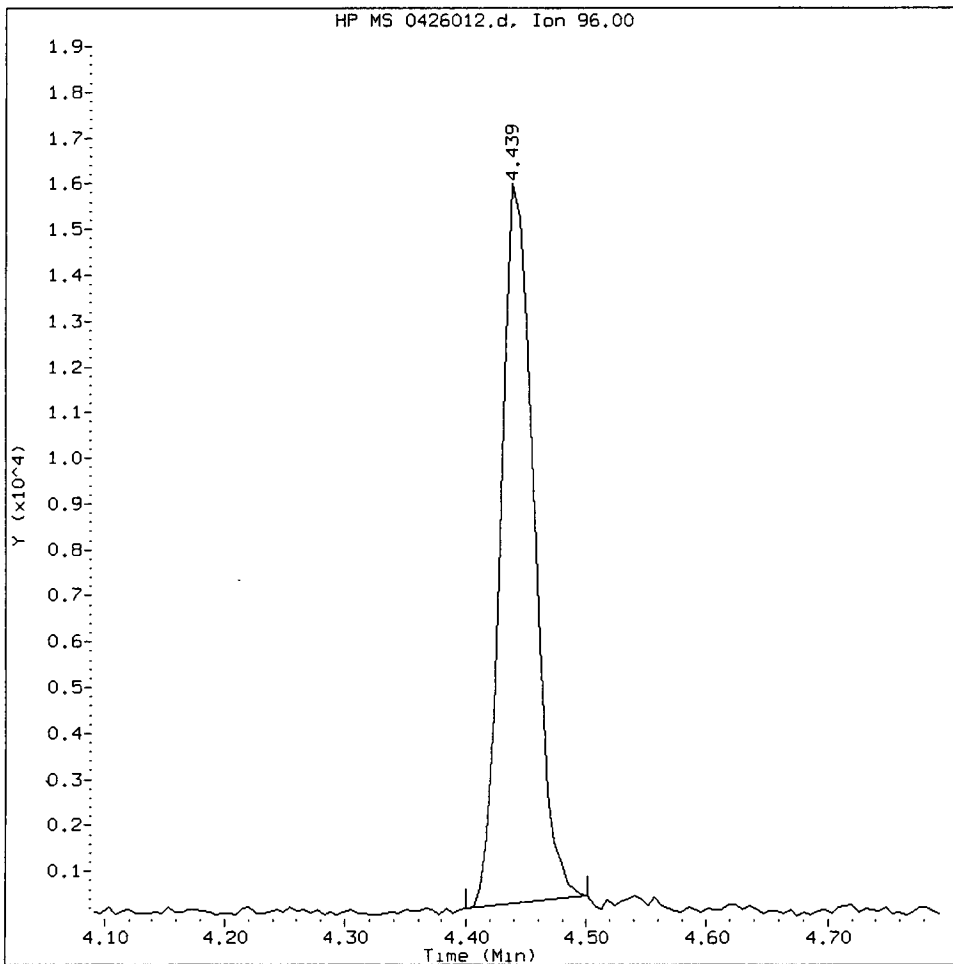
Data File: /chem1/nt7.1/26APR2011.b/0426012.d
Injection Date: 26-APR-2011 11:55
Instrument: nt7.1
Client Sample ID: 100

Compound: cis-1,2-dichloroethene
CAS Number:



01000426, /chem1/nt7.i/26APR2011.b/0426012.d

cis-1,2-dichloroethene Amount: 114.03 Area: 33685



MANUAL INTEGRATION for cis-1,2-dichloroethene

1. Baseline correction
2. Poor chromatography
- ~~3.~~ Peak not found
4. Totals calculation

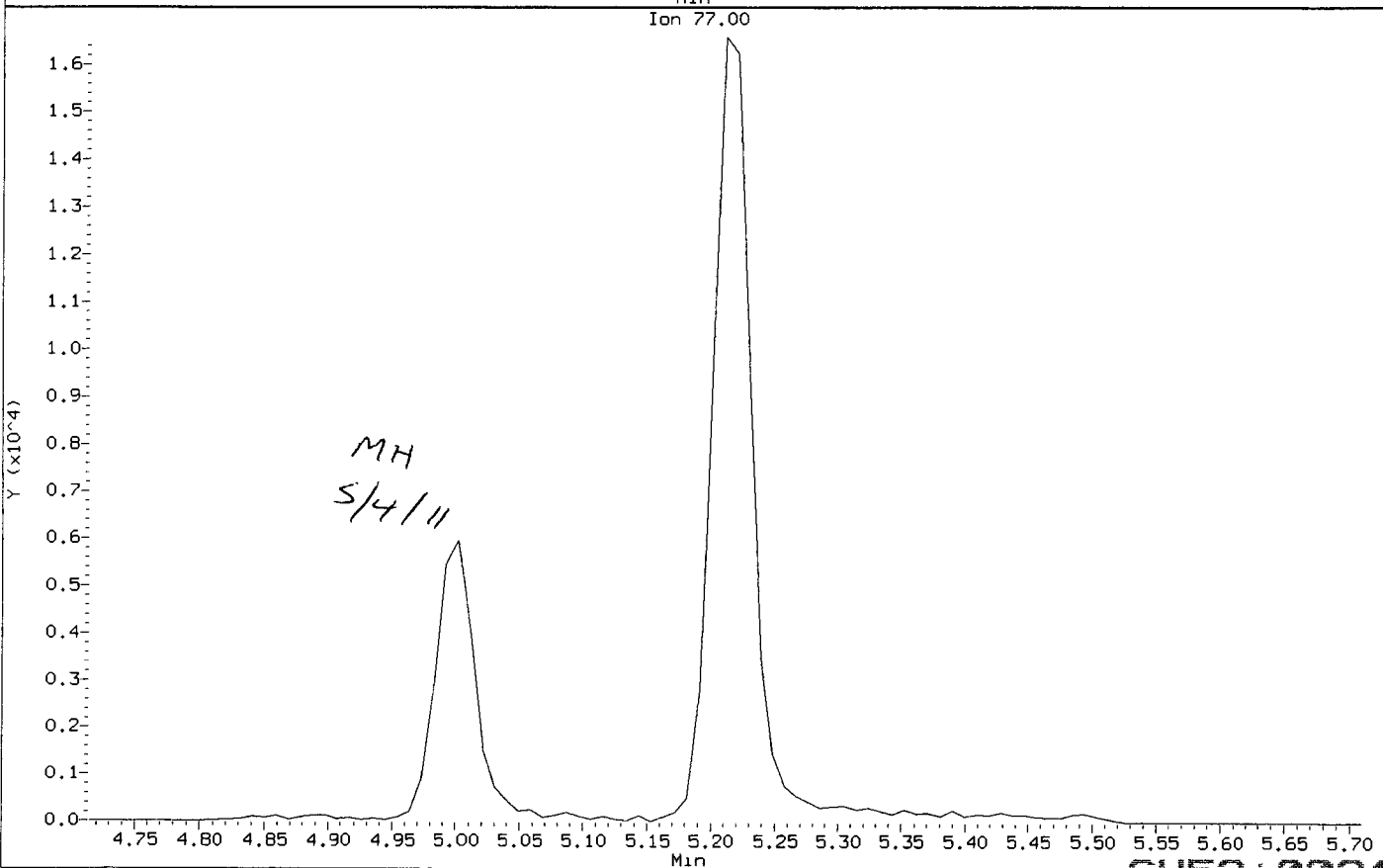
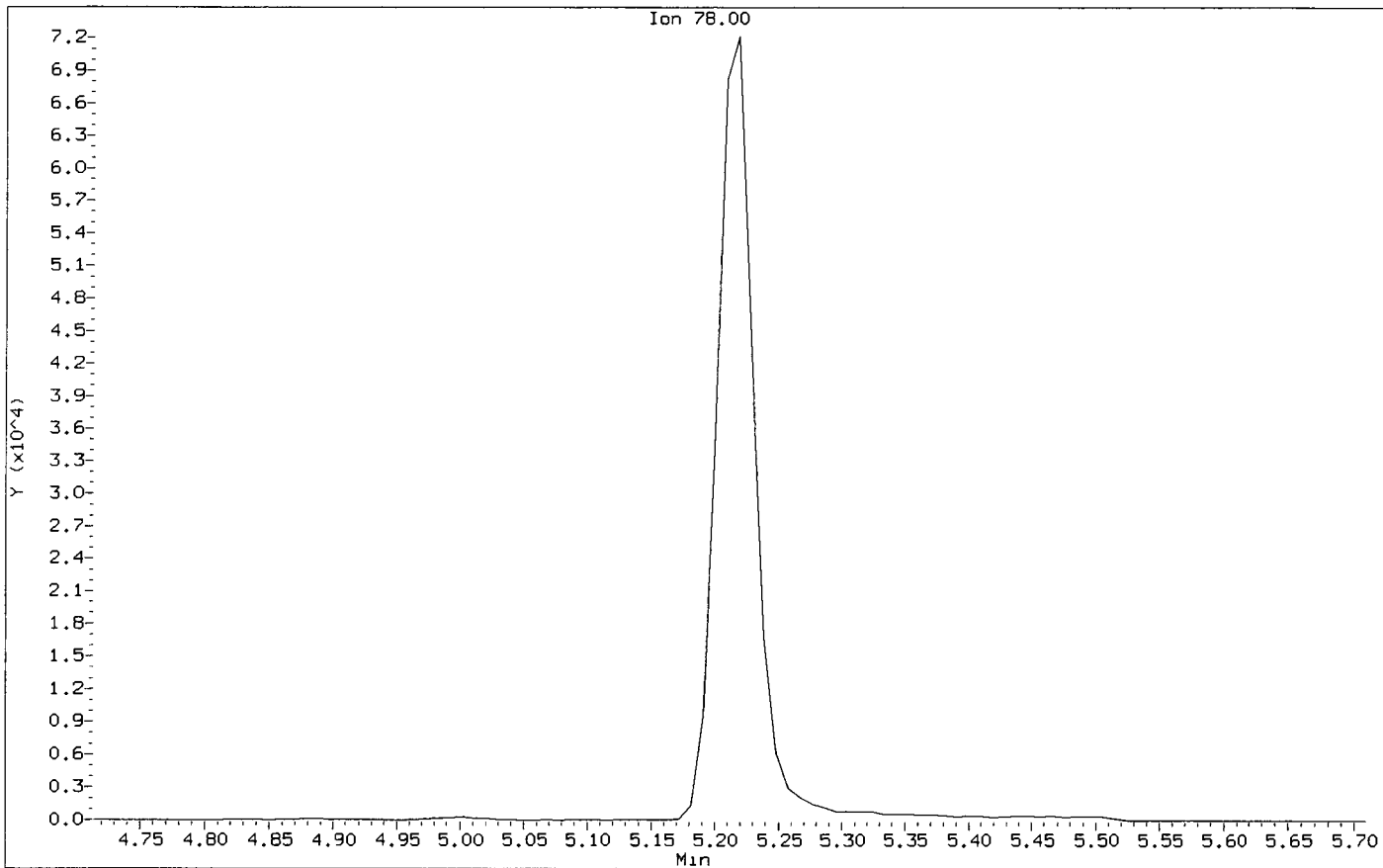
5. Other _____

Analyst: MH

Date: 5/4/11

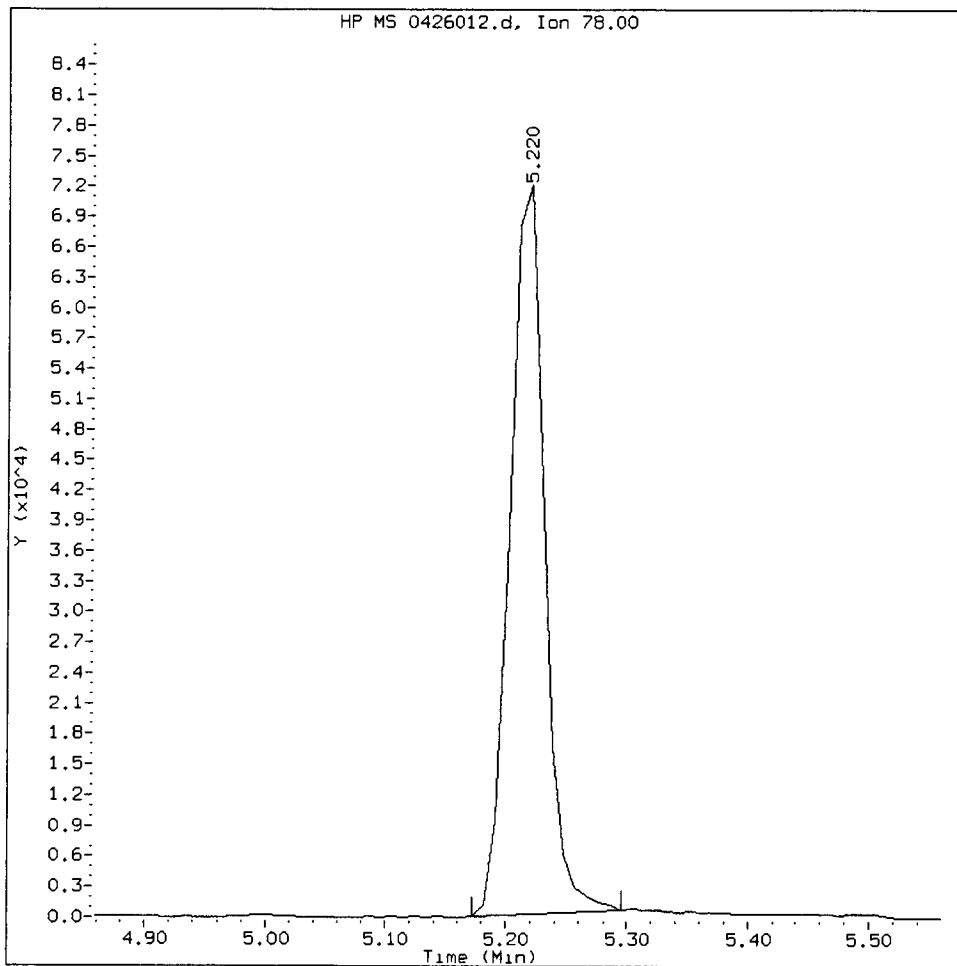
Data File: /chem1/nt7.1/26APR2011.b/0426012.d
Injection Date: 26-APR-2011 11:55
Instrument: nt7.1
Client Sample ID: 100

Compound: Benzene
CAS Number:



01000426, /chem1/nt7.i/26APR2011.b/0426012.d

Benzene Amount: 110.36 Area: 144563



MANUAL INTEGRATION for Benzene

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

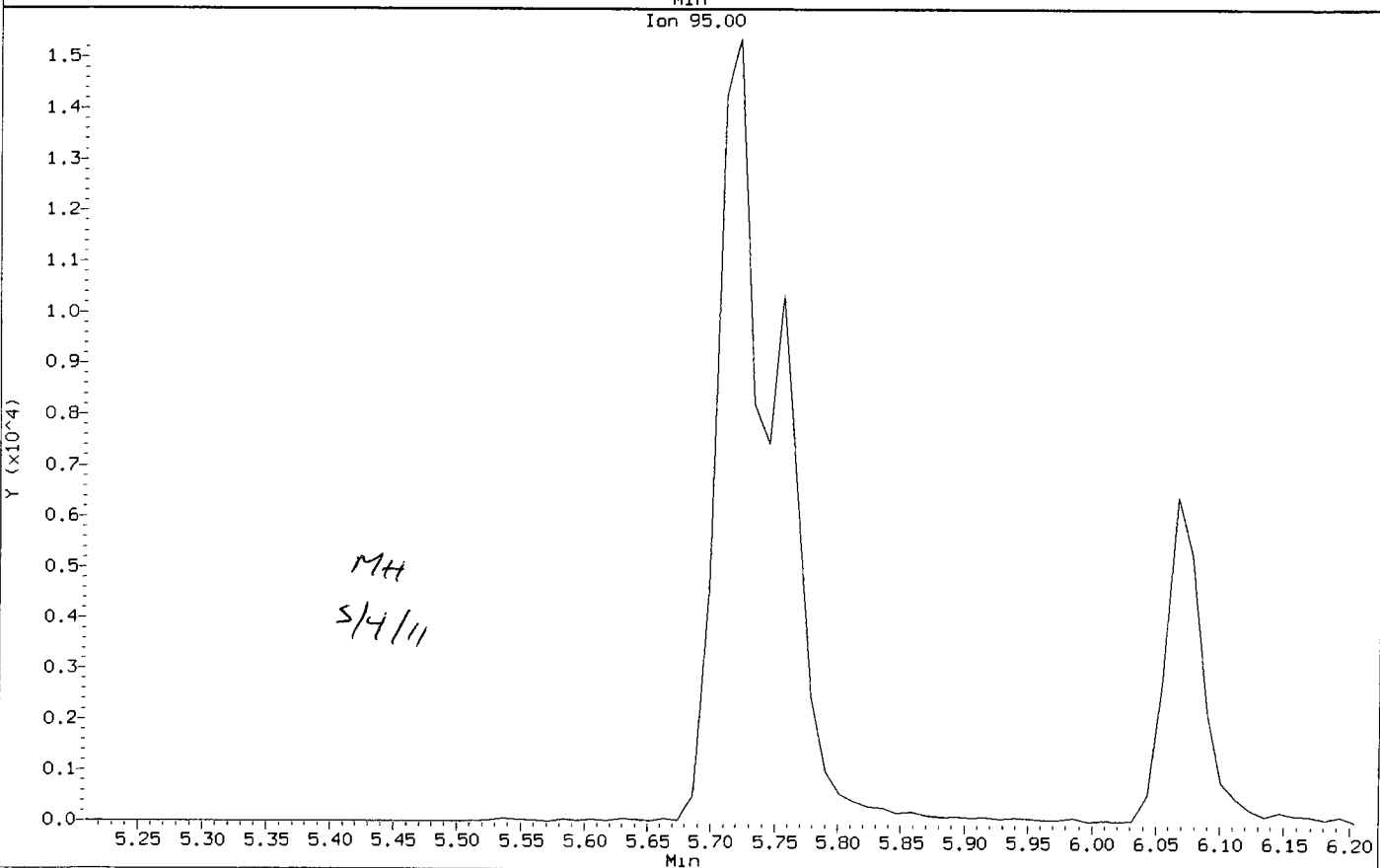
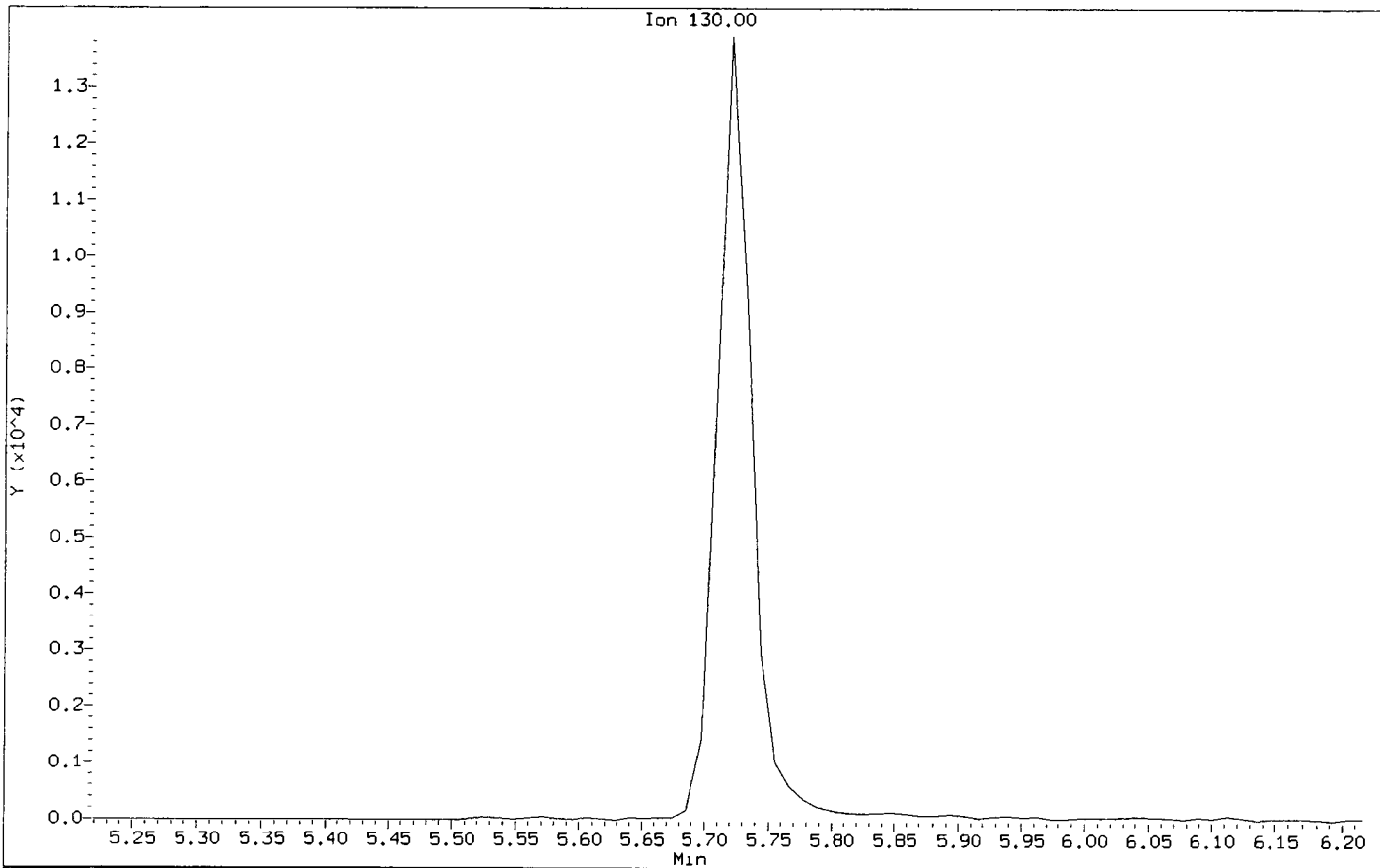
5. Other _____

Analyst: MH

Date: 5/4/11

Data File: /chem1/nt7.1/26APR2011.b/0426012.d
Injection Date: 26-APR-2011 11:55
Instrument: nt7.1
Client Sample ID: 100

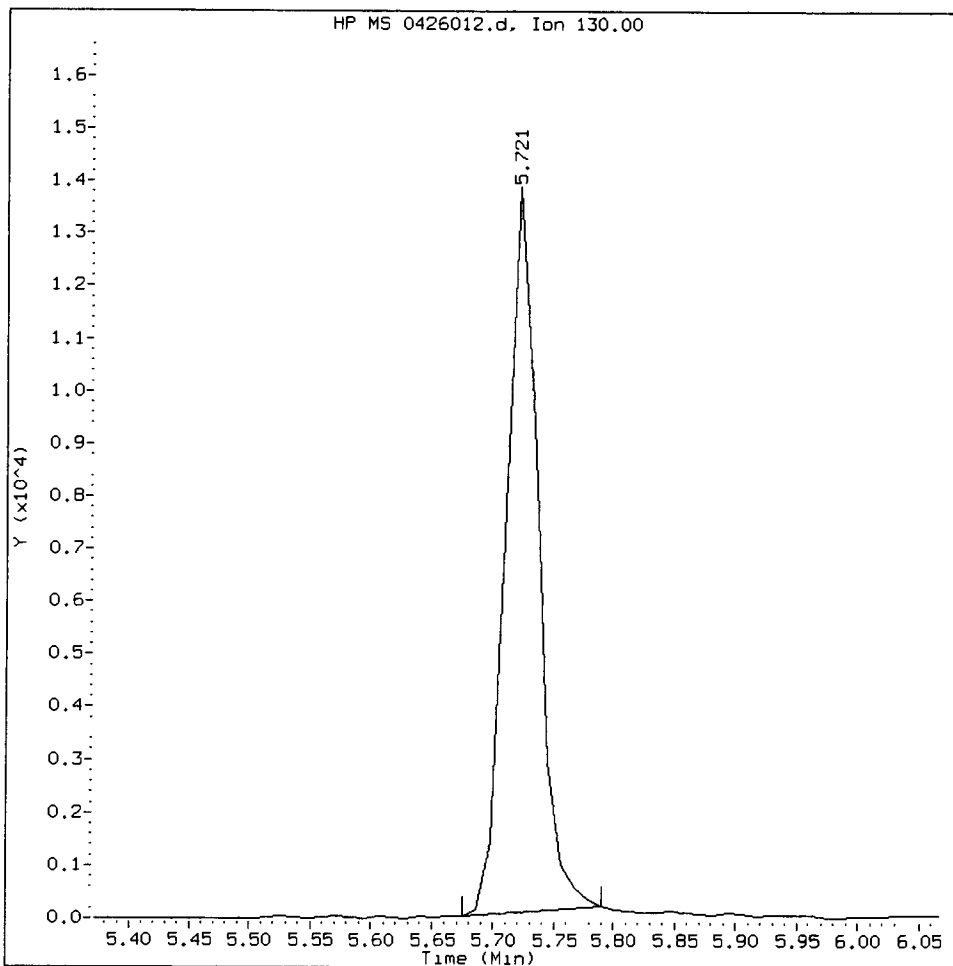
Compound: Trichloroethene
CAS Number:



SU53:00312

01000426, /chem1/nt7.i/26APR2011.b/0426012.d

Trichloroethene Amount: 106.61 Area: 23915



MANUAL INTEGRATION for Trichloroethene

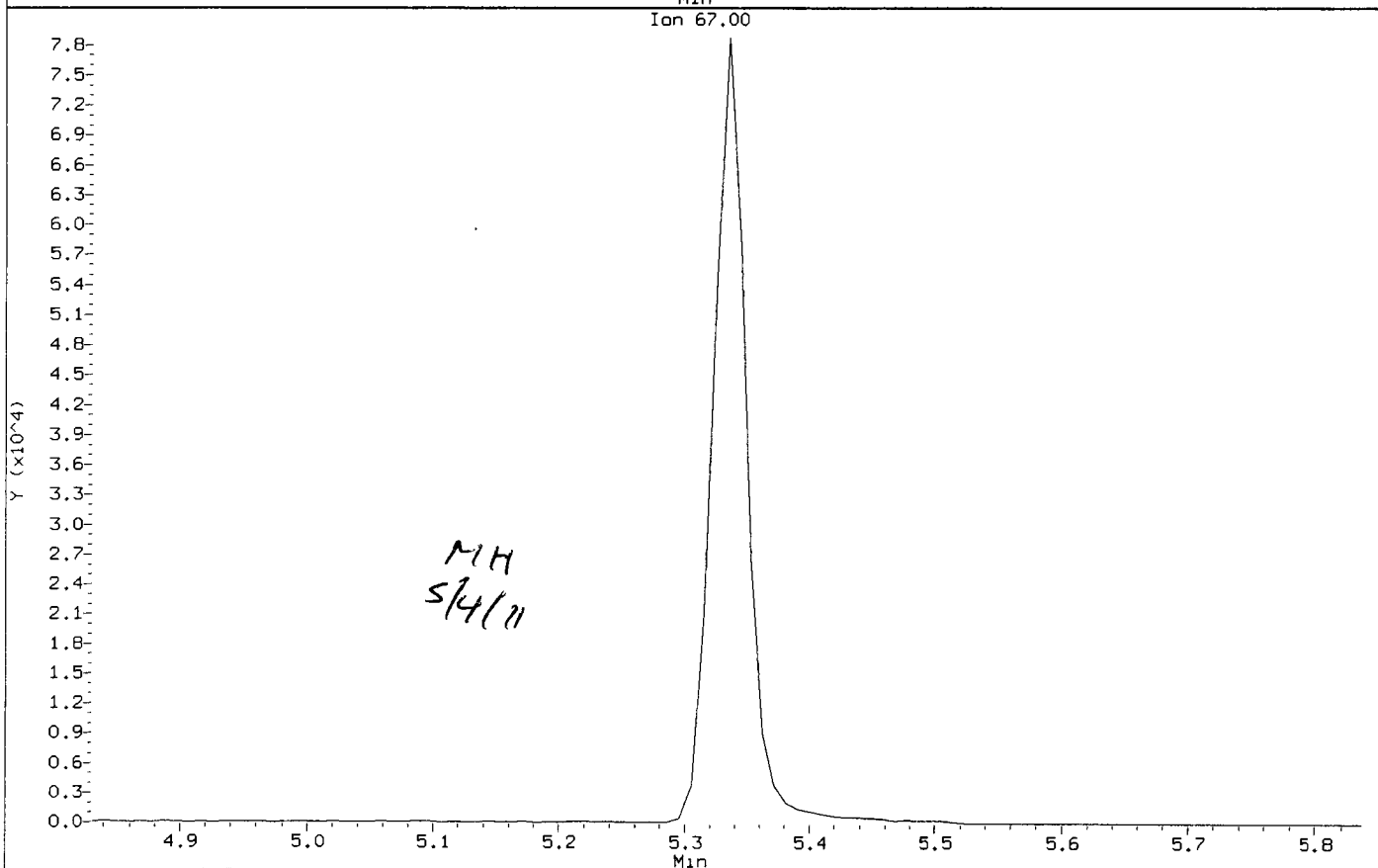
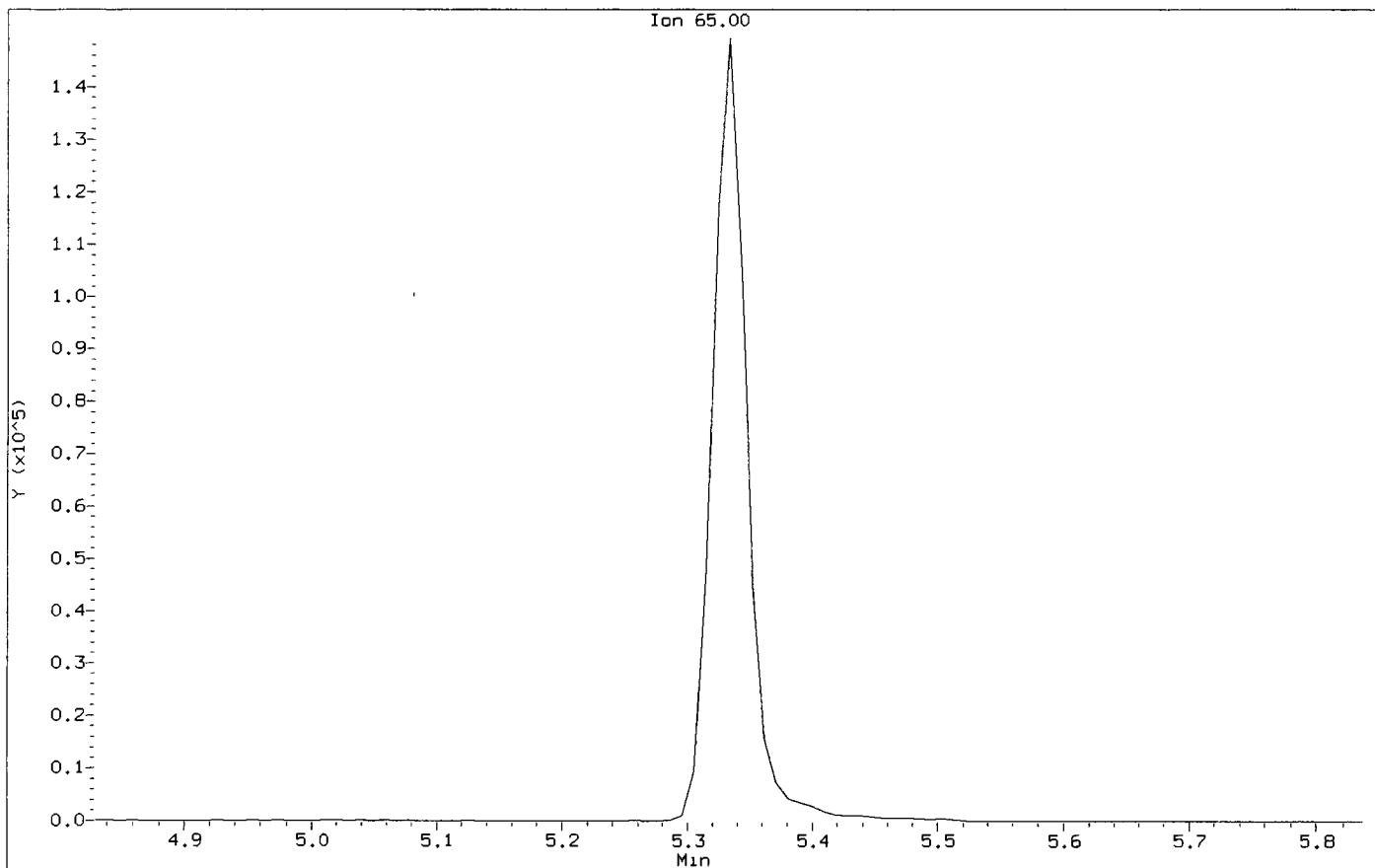
1. Baseline correction
2. Poor chromatography
- ~~3.~~ Peak not found
4. Totals calculation
5. Other _____

Analyst: m4

Date: 5/4/11

Data File: /chem1/nt7.1/26APR2011.b/0426012.d
Injection Date: 26-APR-2011 11:55
Instrument: nt7.1
Client Sample ID: 100

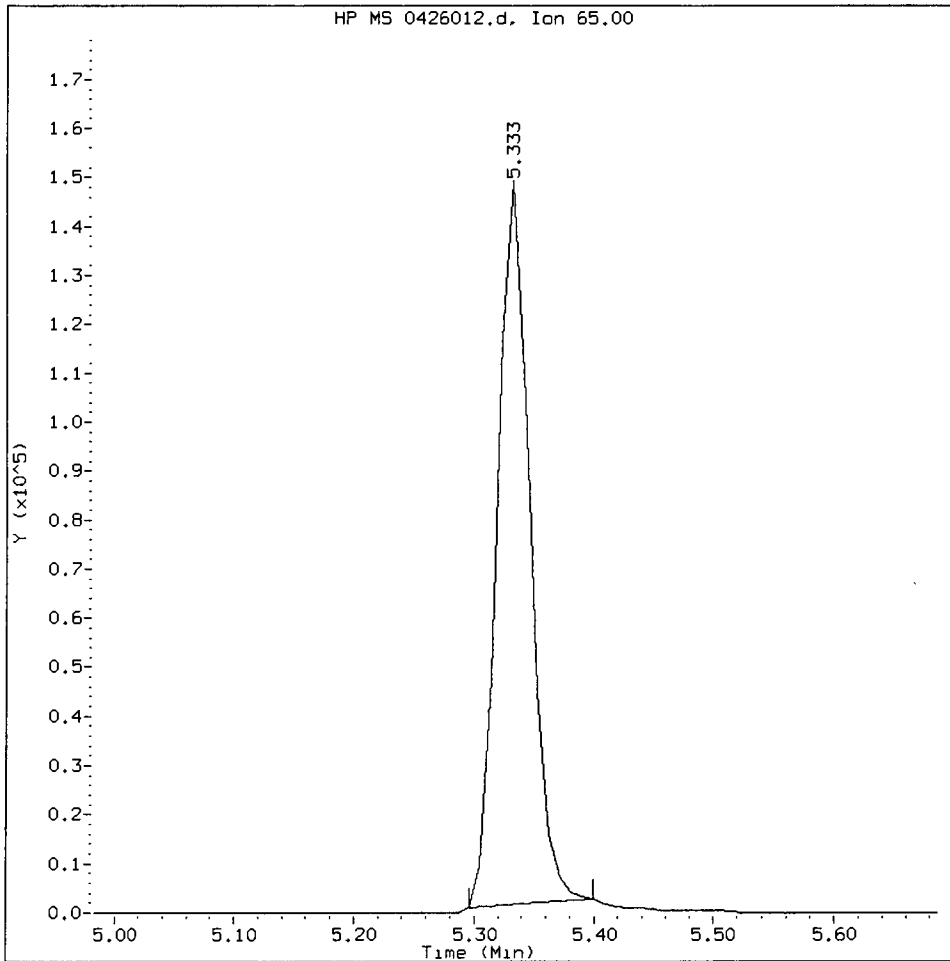
Compound: d4-1,2-Dichloroethane
CAS Number:



SU53:00314

01000426, /chem1/nt7.i/26APR2011.b/0426012.d

d4-1,2-Dichloroethane Amount: 1053.48 Area: 295289



MANUAL INTEGRATION for d4-1,2-Dichloroethane

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

5. Other _____

Analyst: MH

Date: 5/4/11

SU53 : 00315

CO-ELUTION SUMMARY FOR FILE - 0426012.d

Lab ID: 01000426, Method: sim042611.m, Instrument: nt7.i, Date: 26-APR-2011

RT CO-ELUTION COMPOUNDS

MH
5/4/11

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/26APR2011.b/0426013.d
 Lab Smp Id: 05000426 Client Smp ID: 500
 Inj Date : 26-APR-2011 12:21
 Operator : MH Inst ID: nt7.i
 Smp Info : 05000426,10,10,0,
 Misc Info : 11-
 Comment :
 Method : /chem1/nt7.i/26APR2011.b/sim042611.m
 Meth Date : 04-May-2011 06:35 monicah Quant Type: ISTD
 Cal Date : 26-APR-2011 12:21 Cal File: 0426013.d
 Als bottle: 1 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sim12dca.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62		1.551	1.554	(0.291)	199163	500.000	581.99
2 1,1-Dichloroethene	96		2.505	2.510	(0.471)	162834	500.000	598.03
175 Trans-1,2-Dichloroethene	96		3.290	3.289	(0.618)	163691	500.000	591.75 (M)
3 cis-1,2-dichloroethene	96		4.440	4.444	(0.834)	180014	500.000	609.55 (M)
6 Benzene	78		5.211	5.212	(0.905)	747086	500.000	565.06 (M)
* 4 Pentafluorobenzene	168		5.324	5.326	(1.000)	310955	1000.00	
\$ 5 d4-1,2-Dichloroethane	65		5.334	5.335	(1.002)	292830	1000.00	1045.0 (M)
176 1,2-Dichloroethane	62		5.391	5.392	(1.012)	276684	500.000	624.72
8 Trichloroethene	130		5.721	5.720	(0.994)	131207	500.000	579.48 (M)
* 7 1,4-Difluorobenzene	114		5.756	5.754	(1.000)	577506	1000.00	
\$ 9 d8-Toluene	98		6.914	6.914	(1.201)	737681	1000.00	1002.7
10 Tetrachloroethene	166		7.270	7.271	(1.263)	105197	500.000	602.09
11 1,1,2,2-Tetrachloroethane	83		9.469	9.458	(1.645)	123301	500.000	589.48

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 0426013.d
 Lab Smp Id: 05000426
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: MH
 Method File: /chem1/nt7.i/26APR2011.b/sim042611.m
 Misc Info: 11-

Calibration Date: 26-APR-2011
 Calibration Time: 12:47
 Client Smp ID: 500
 Level: LOW
 Sample Type: WATER

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	363407	181704	726814	310955	-14.43
7 1,4-Difluorobenze	667797	333898	1335594	577506	-13.52

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.33	4.83	5.83	5.32	-0.03
7 1,4-Difluorobenze	5.75	5.25	6.25	5.76	0.03

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

Data File: /chem1/nt7.i/26APR2011.b/0426013.d

Date: 26-APR-2011 12:21

Client ID: 500

Sample Info: 05000426,10,10,0,

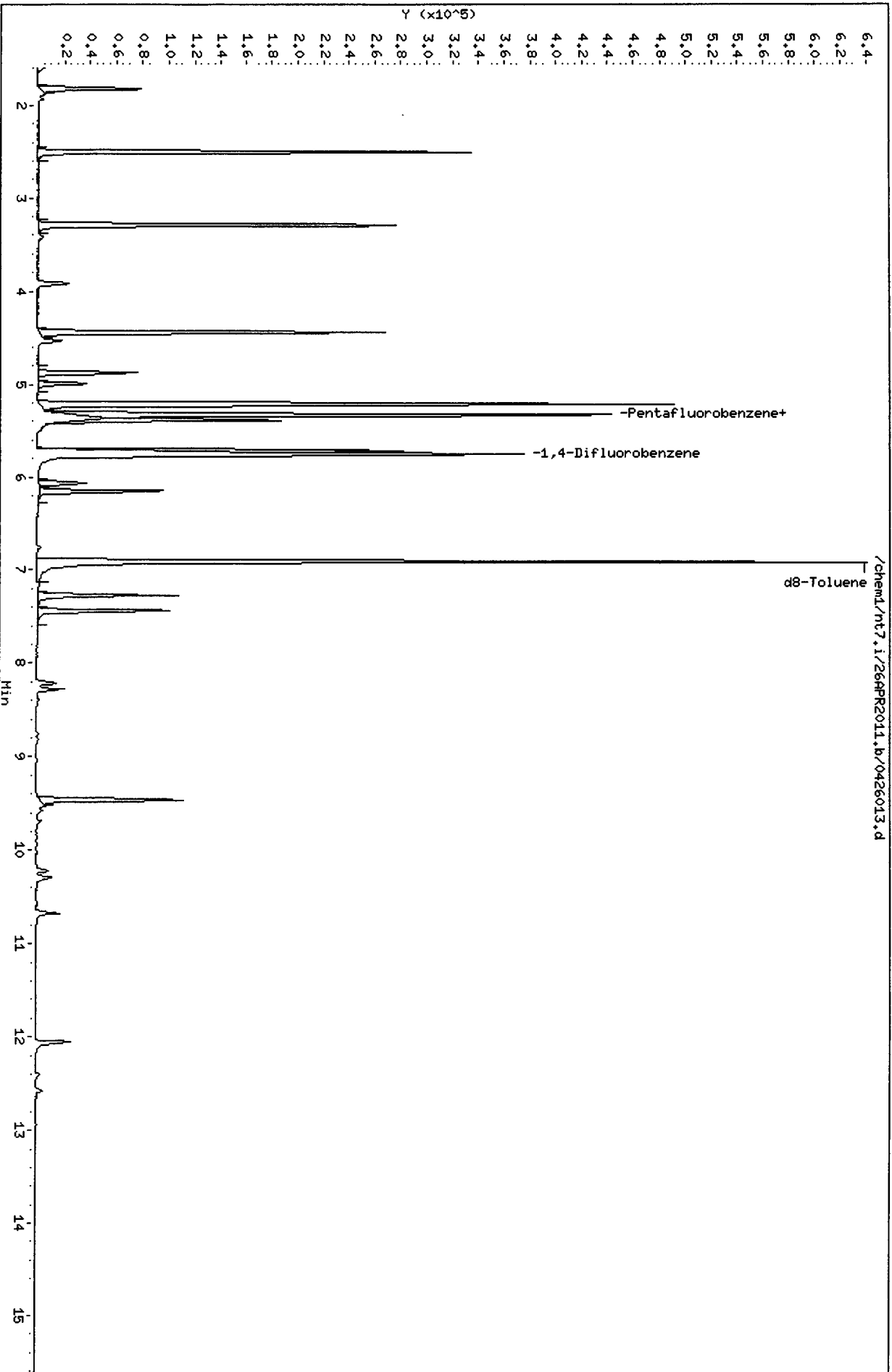
Column phase: RTXVHS

Instrument: nt7.i

Operator: NH

Column diameter: 0.18

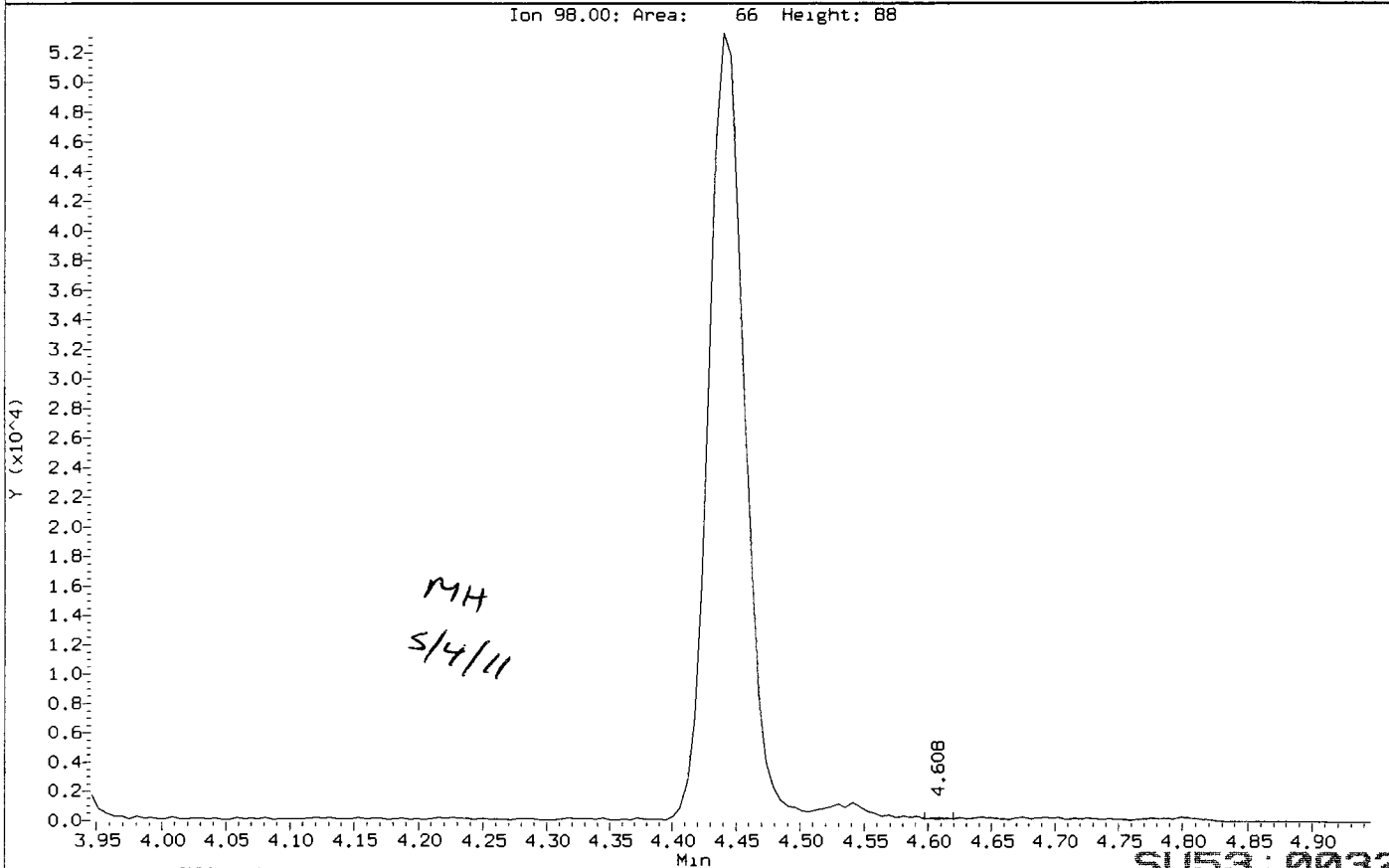
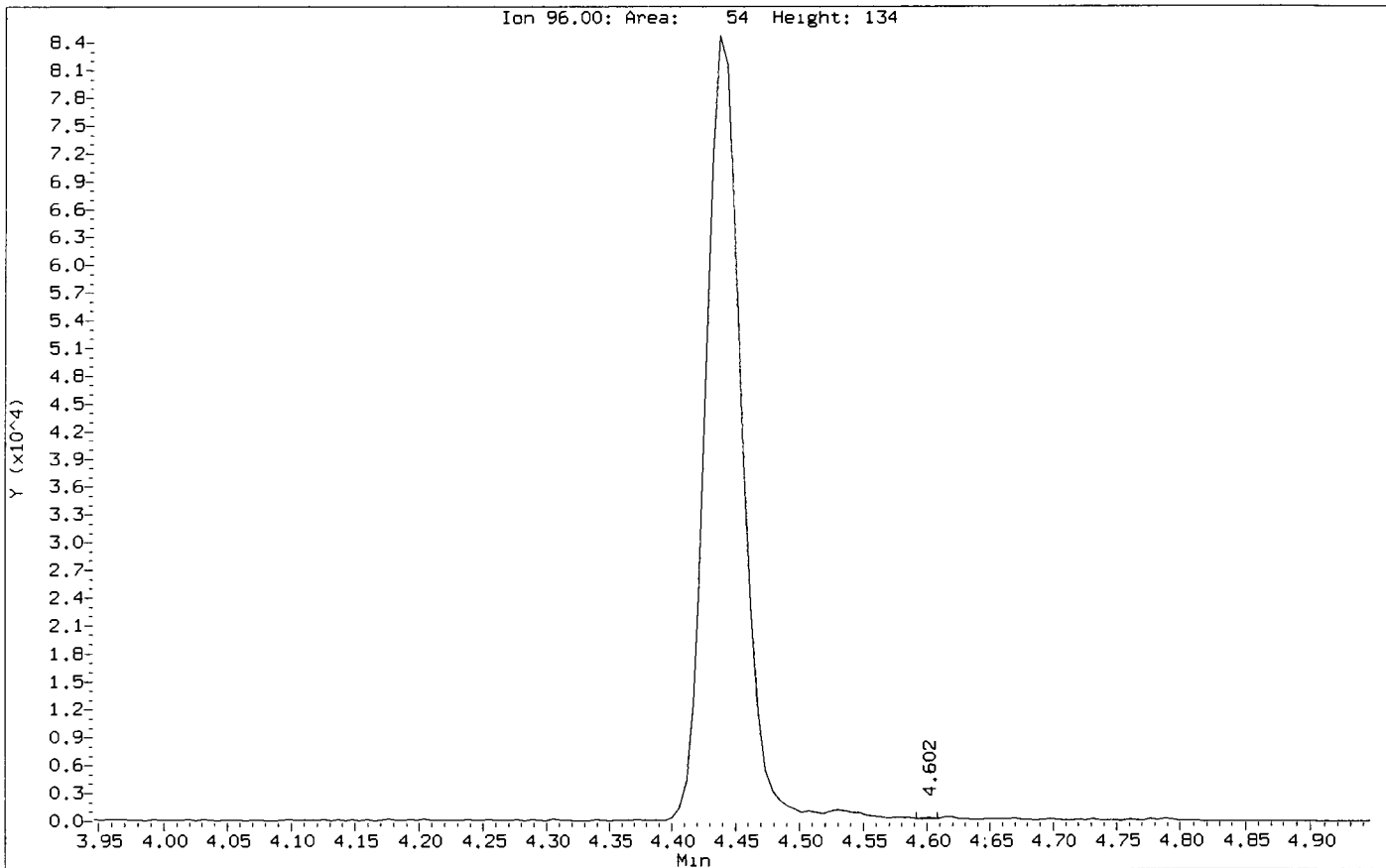
Page 4



SU53 : 00320

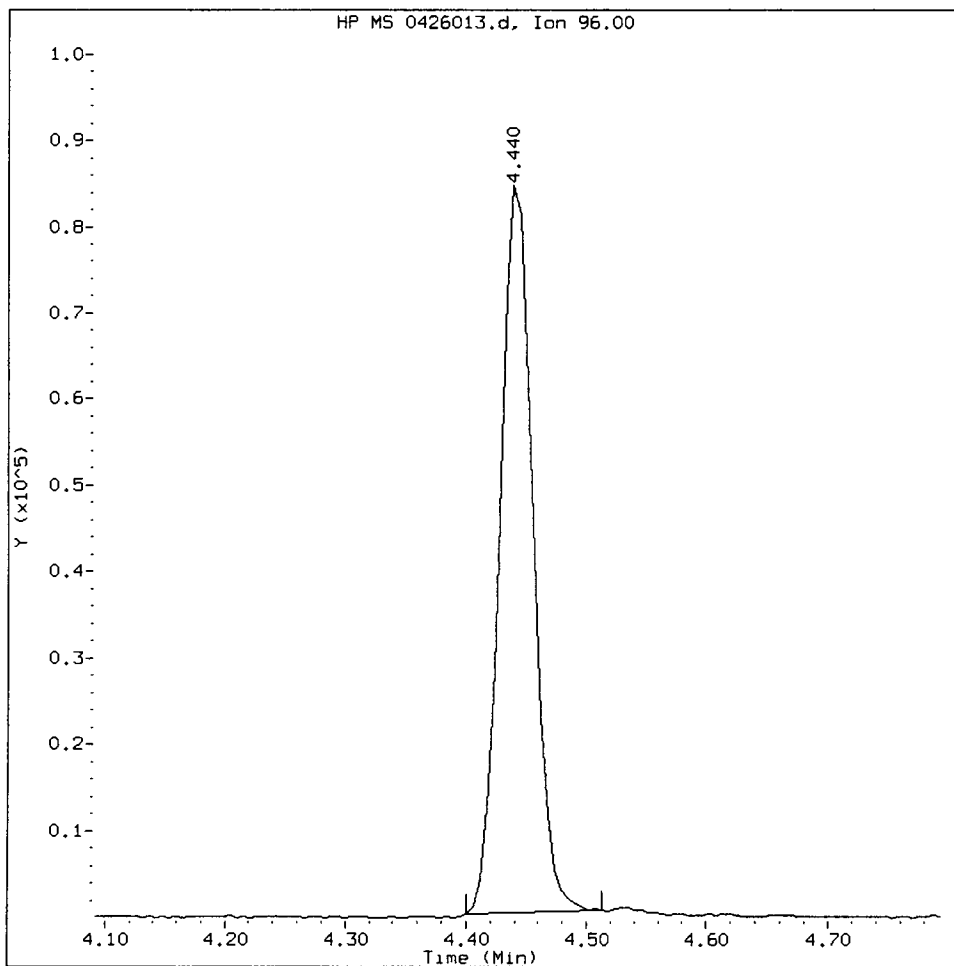
Data File: /chem1/nt7.1/26APR2011.b/0426013.d
Injection Date: 26-APR-2011 12:21
Instrument: nt7.1
Client Sample ID: 500

Compound: cis-1,2-dichloroethene
CAS Number:



05000426, /chem1/nt7.i/26APR2011.b/0426013.d

cis-1,2-dichloroethene Amount: 609.55 Area: 180014



MANUAL INTEGRATION for cis-1,2-dichloroethene

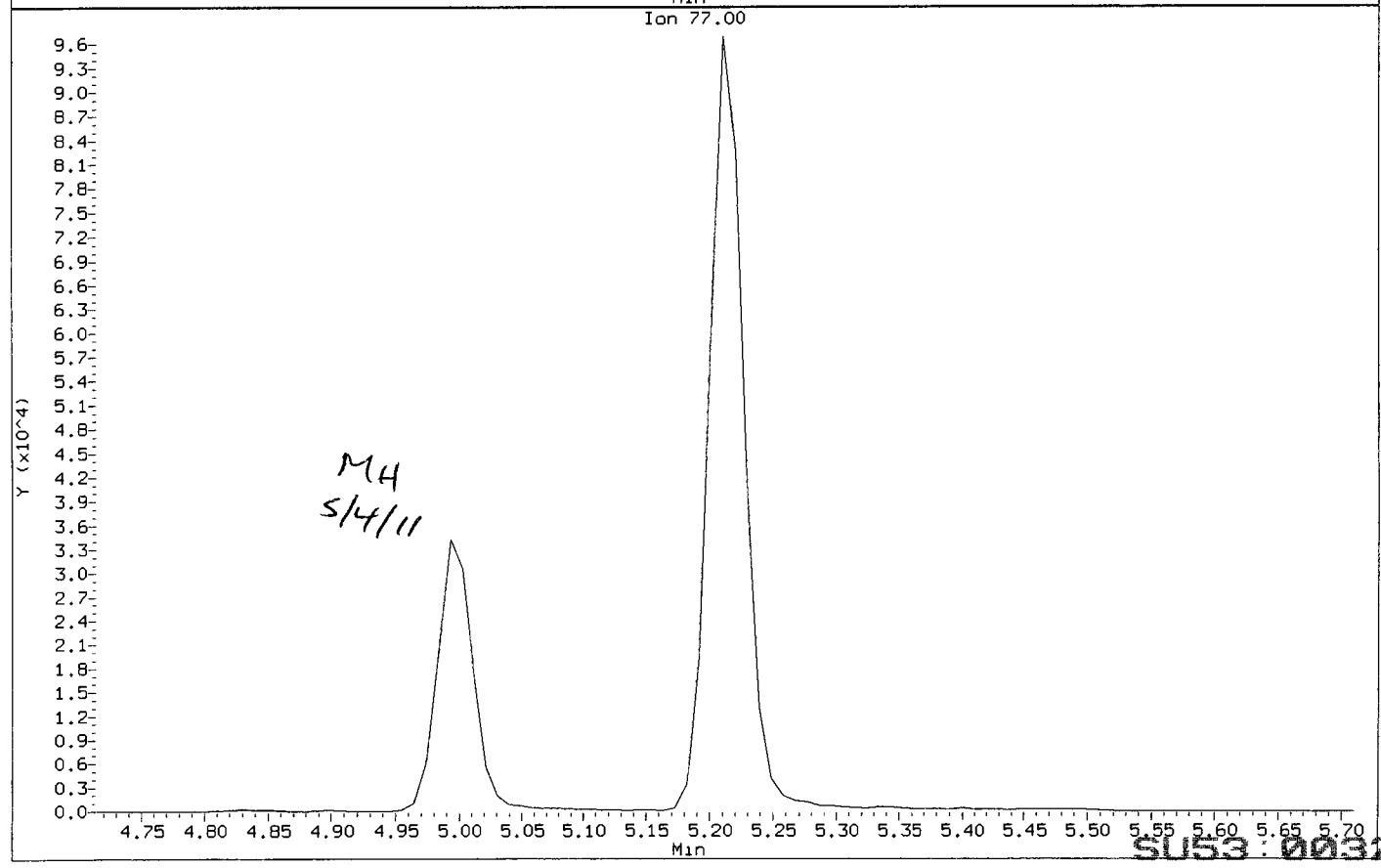
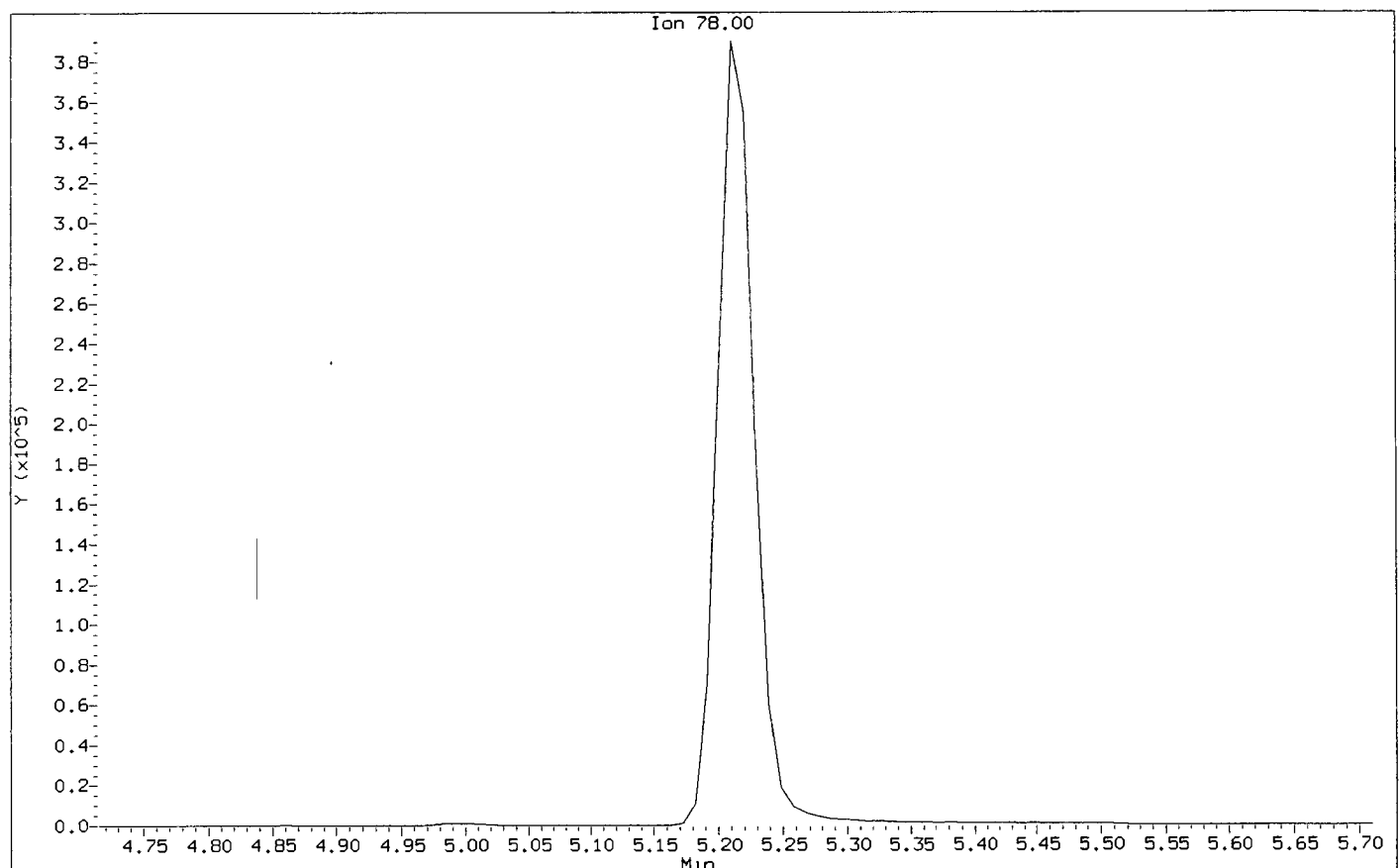
1. Baseline correction
2. Poor chromatography
- ~~3.~~ Peak not found
4. Totals calculation
5. Other _____

Analyst: MH

Date: 5/4/11

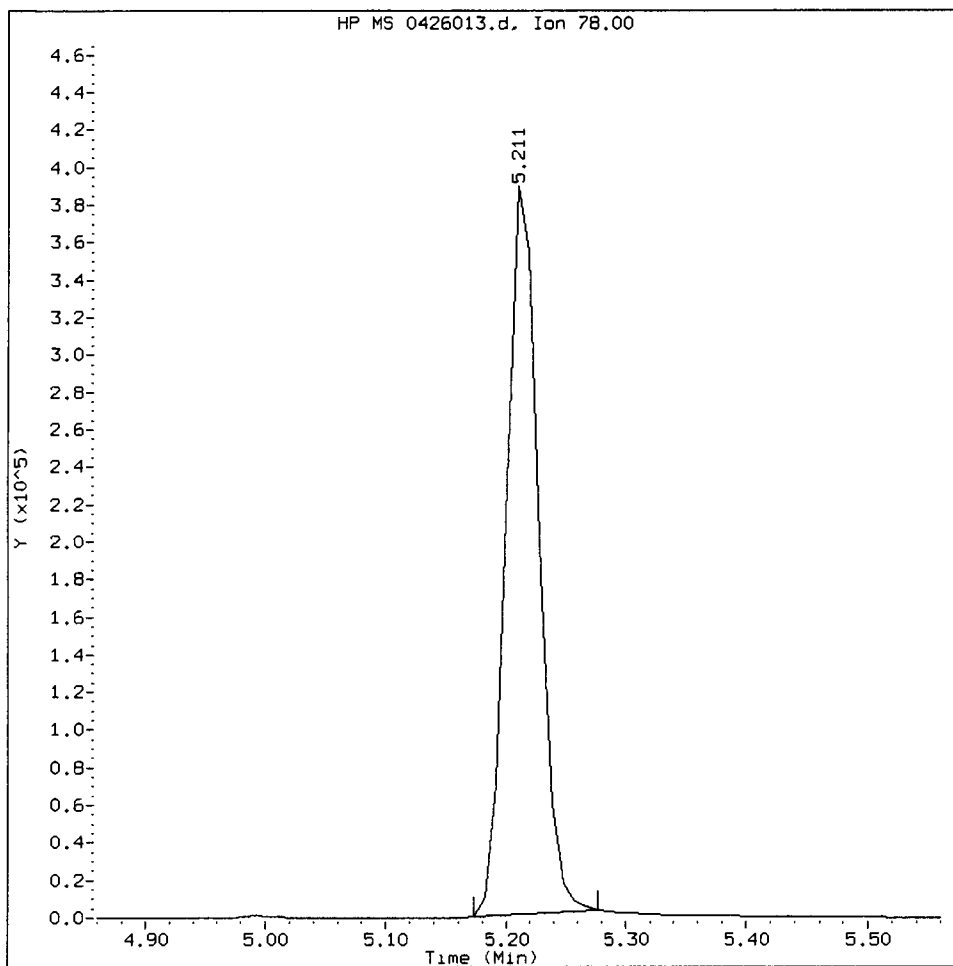
Data File: /chem1/nt7.1/26APR2011.b/0426013.d
Injection Date: 26-APR-2011 12:21
Instrument: nt7.1
Client Sample ID: 500

Compound: Benzene
CAS Number:



05000426, /chem1/nt7.i/26APR2011.b/0426013.d

Benzene Amount: 565.06 Area: 747086



MANUAL INTEGRATION for Benzene

1. Baseline correction
2. Poor chromatography
- ~~3.~~ Peak not found
4. Totals calculation

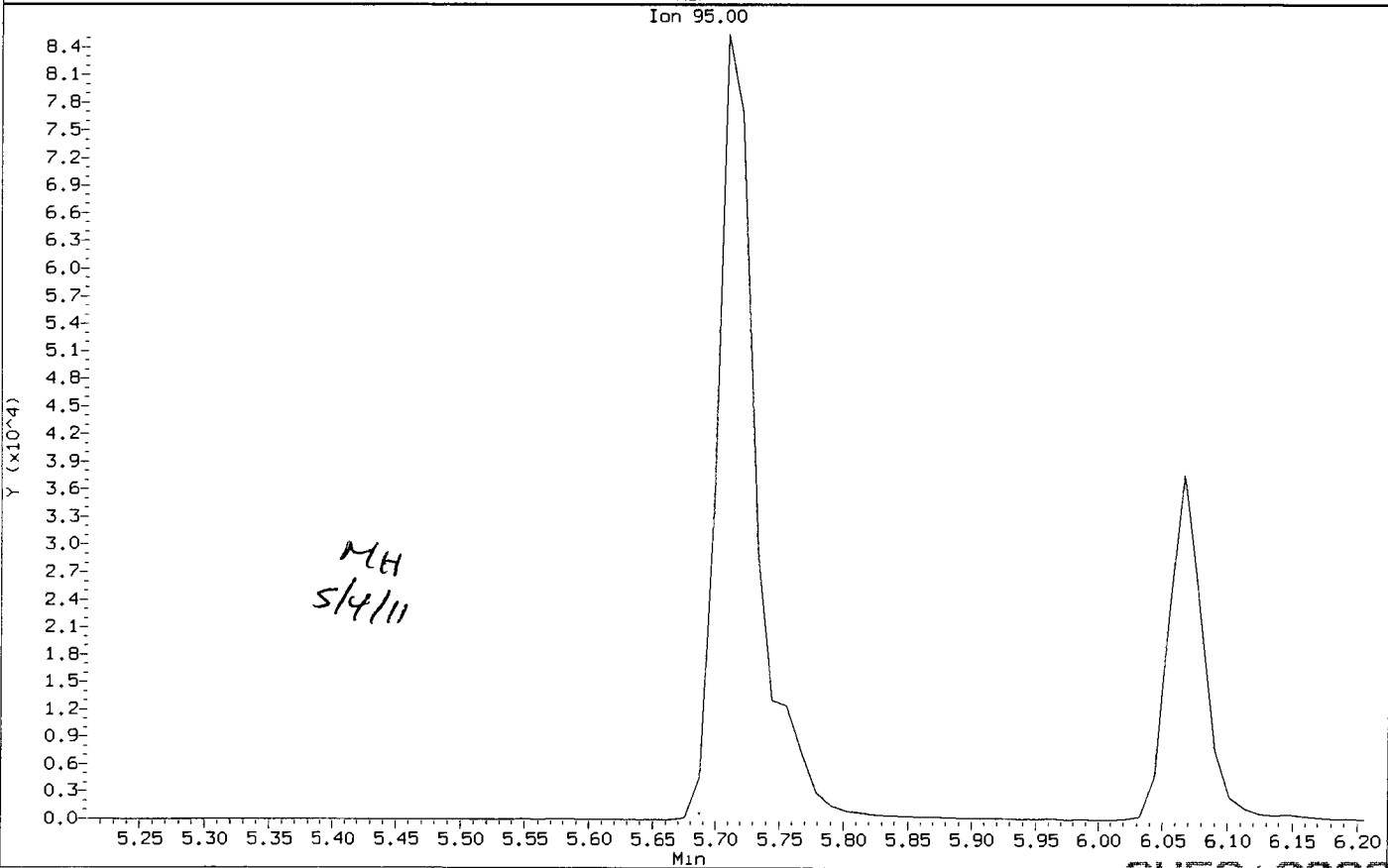
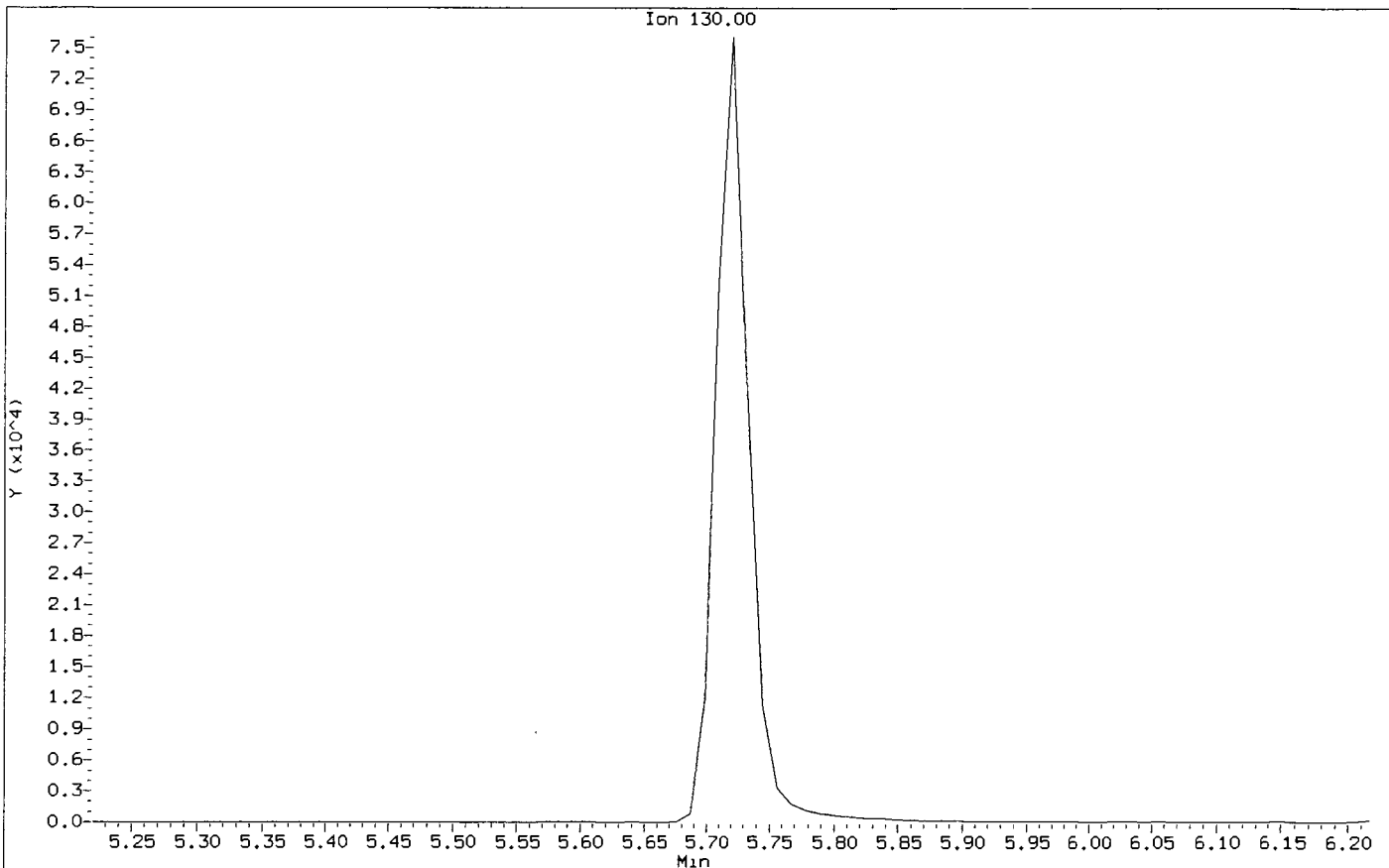
5. Other _____

Analyst: MH

Date: 5/4/11

Data File: /chem1/nt7.1/26APR2011.b/0426013.d
Injection Date: 26-APR-2011 12:21
Instrument: nt7.1
Client Sample ID: 500

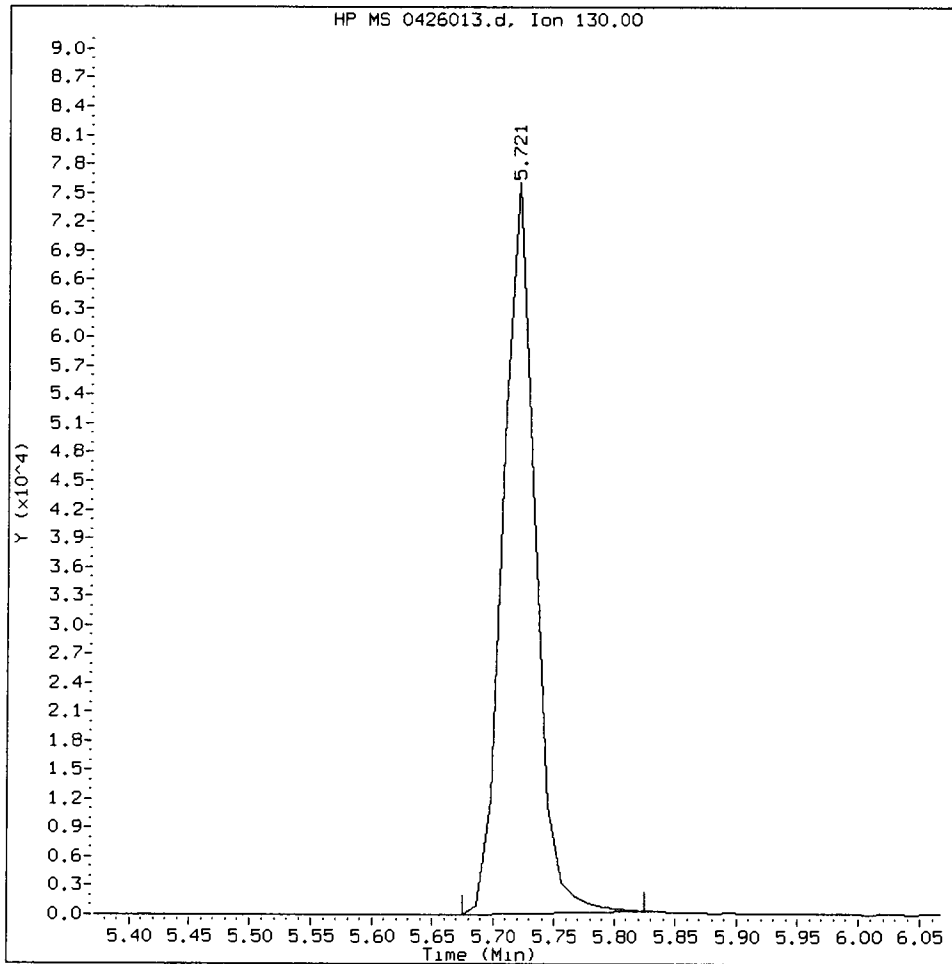
Compound: Trichloroethene
CAS Number:



SU53: 00325

05000426, /chem1/nt7.i/26APR2011.b/0426013.d

Trichloroethene Amount: 579.48 Area: 131207



MANUAL INTEGRATION for Trichloroethene

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

5. Other _____

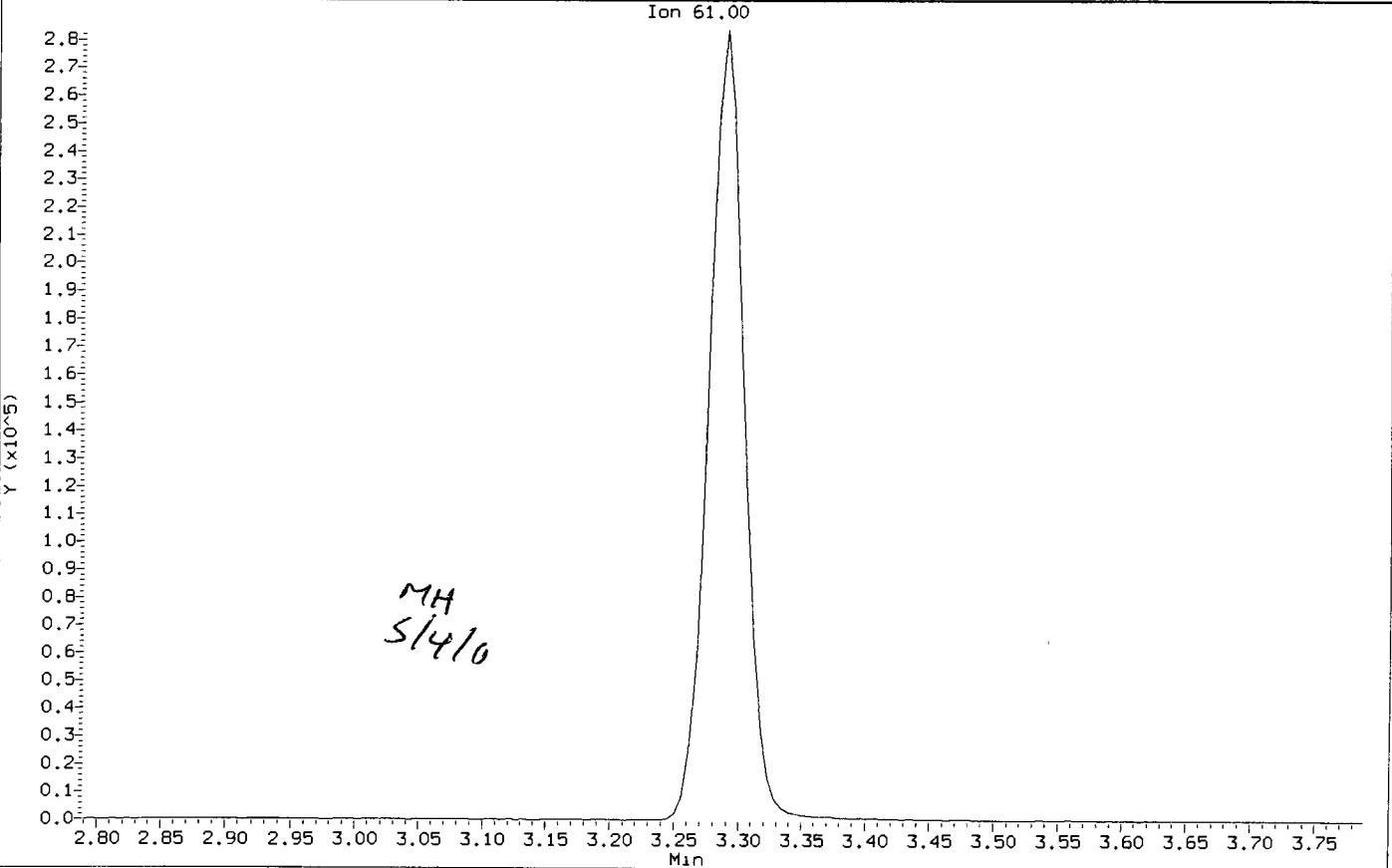
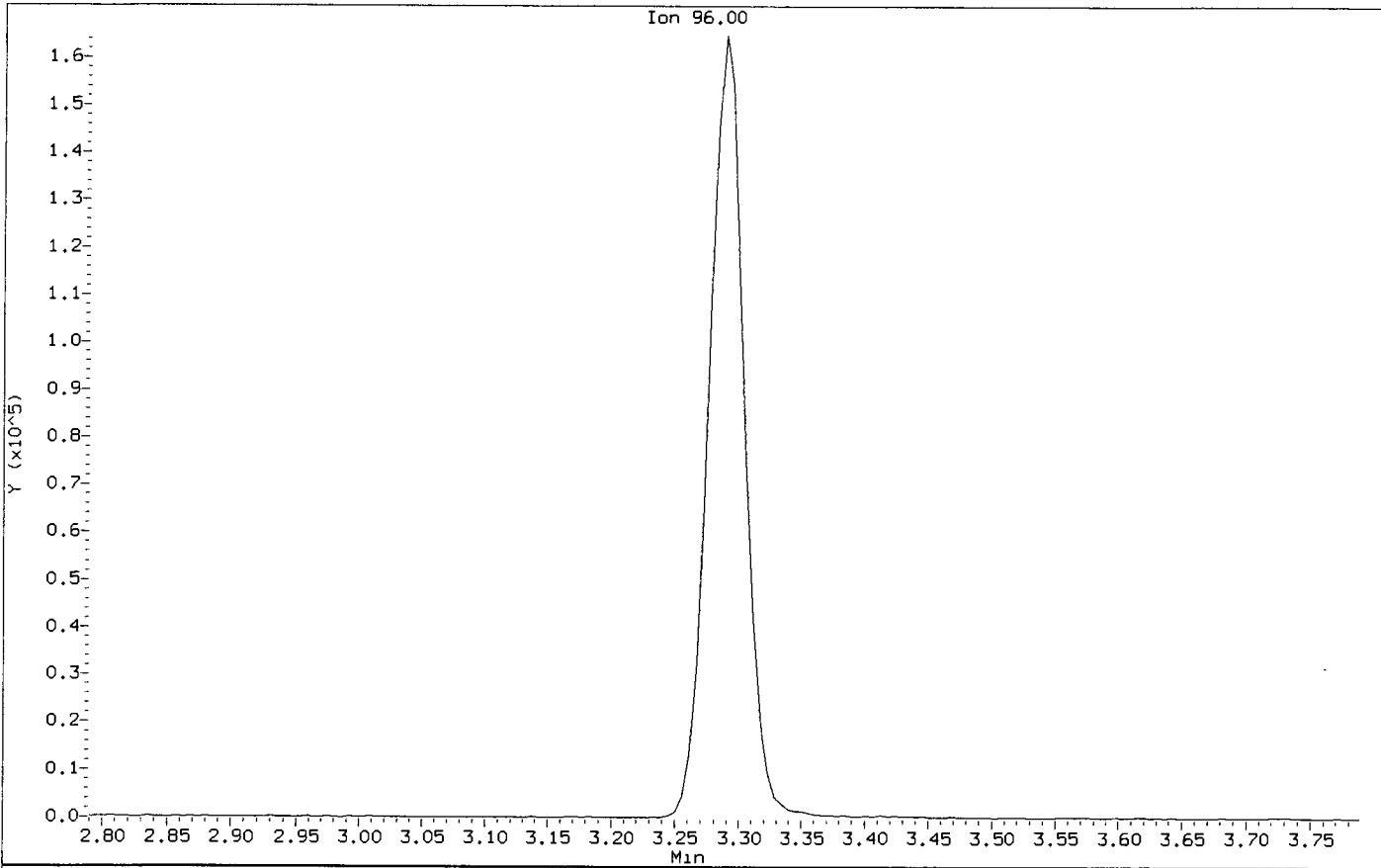
Analyst: MH

Date: 5/4/11

SU53 : 00326

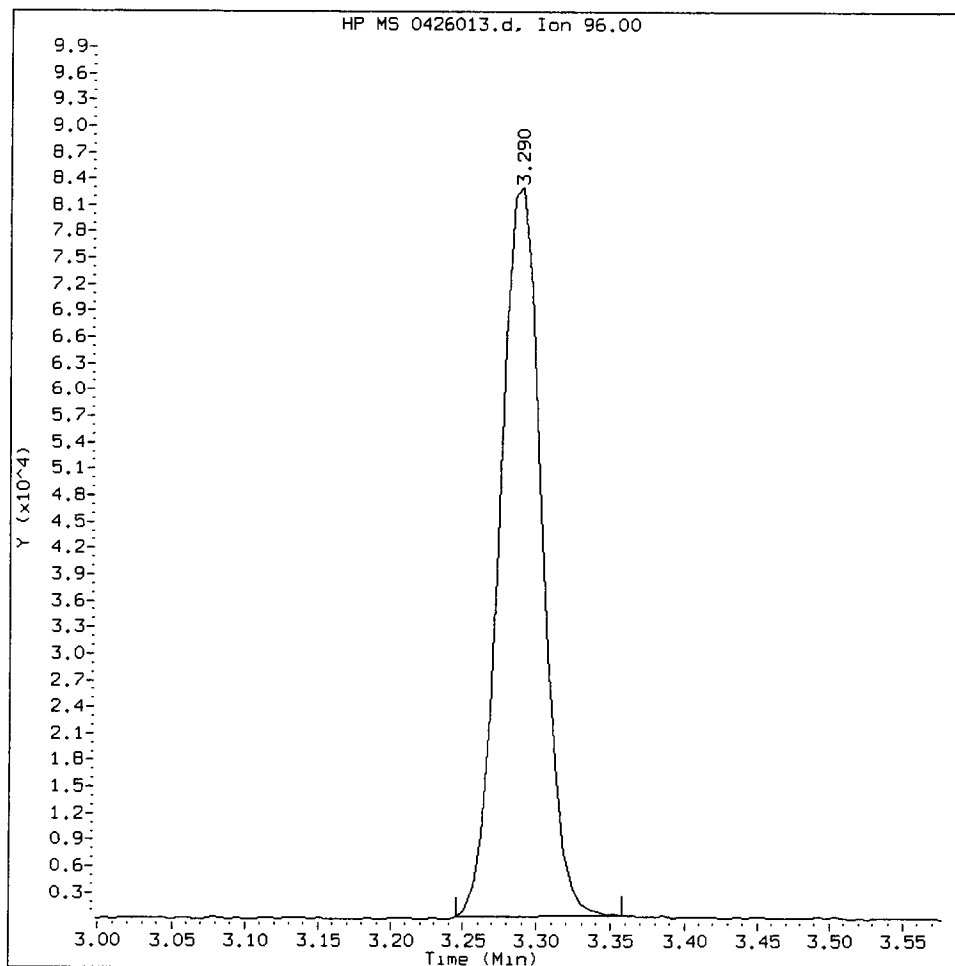
Data File: /chem1/nt7.1/26APR2011.b/0426014.d
Injection Date: 26-APR-2011 12:47
Instrument: nt7.1
Client Sample ID: 1000

Compound: Trans-1,2-Dichloroethene
CAS Number:



05000426, /chem1/nt7.i/26APR2011.b/0426013.d

Trans-1,2-Dichloroethene Amount: 591.75 Area: 163691



MANUAL INTEGRATION for Trans-1,2-Dichloroethene

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

5. Other _____

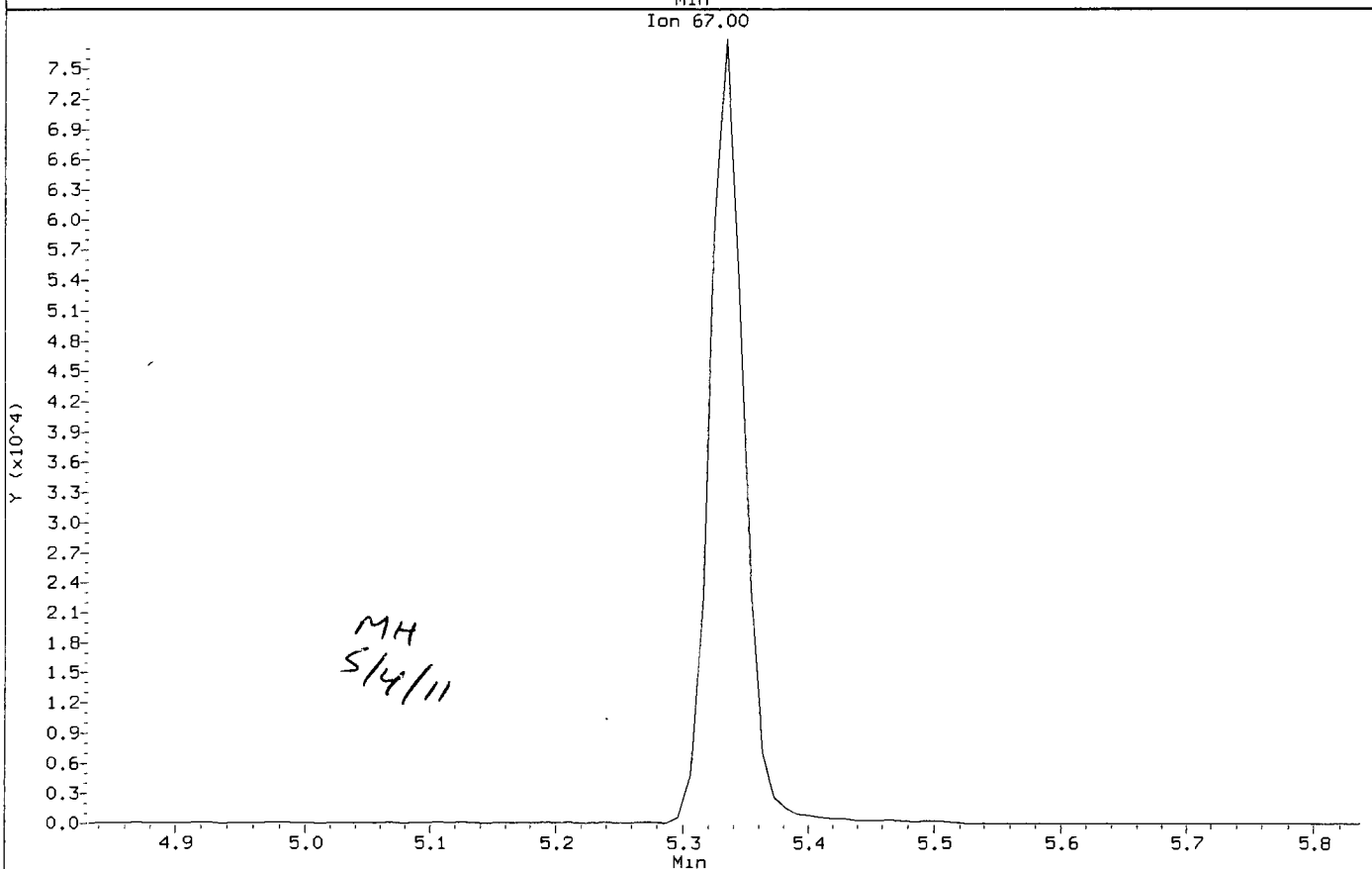
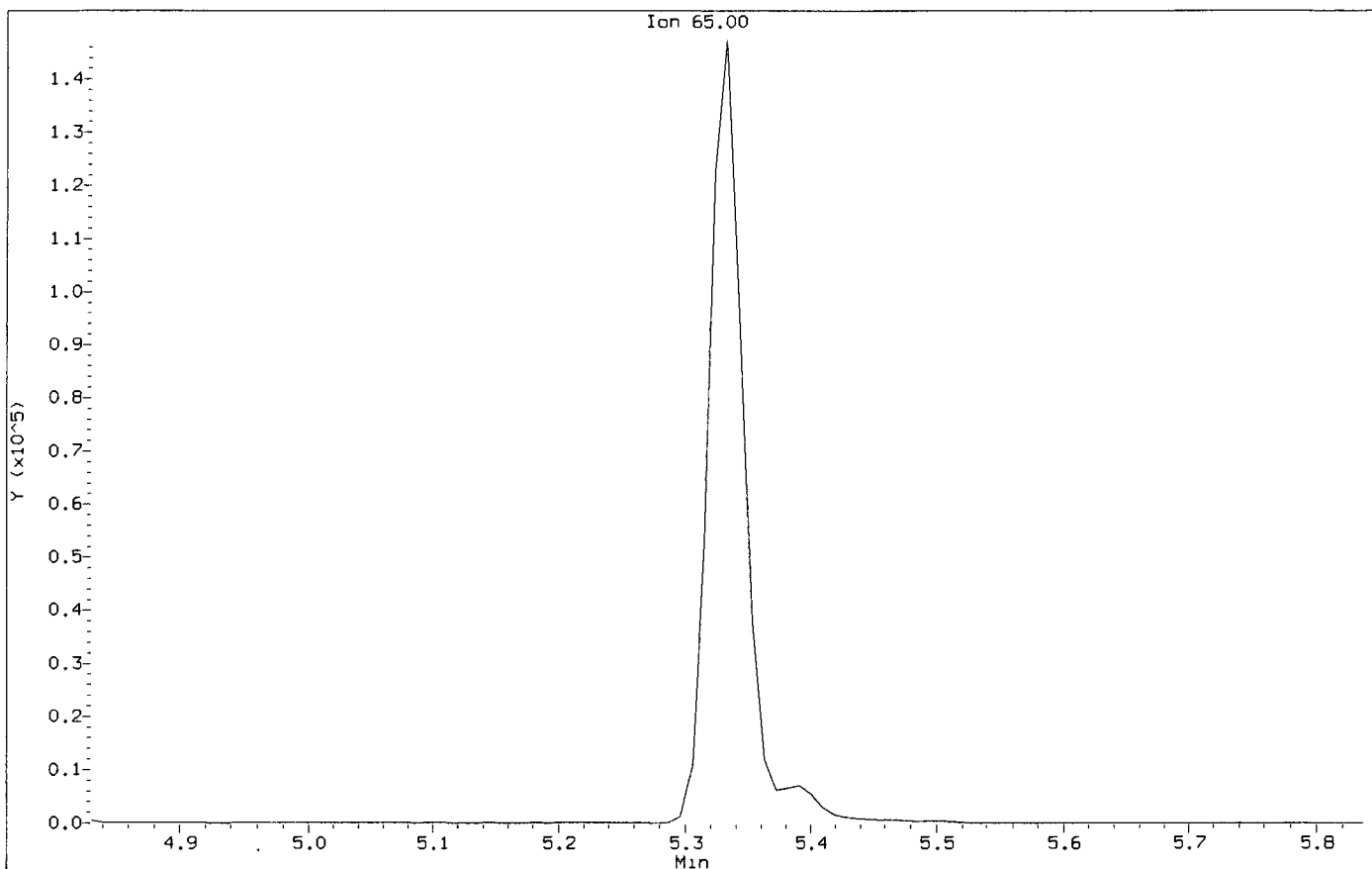
Analyst: MT

Date: 5/4/11

SU53: 00328

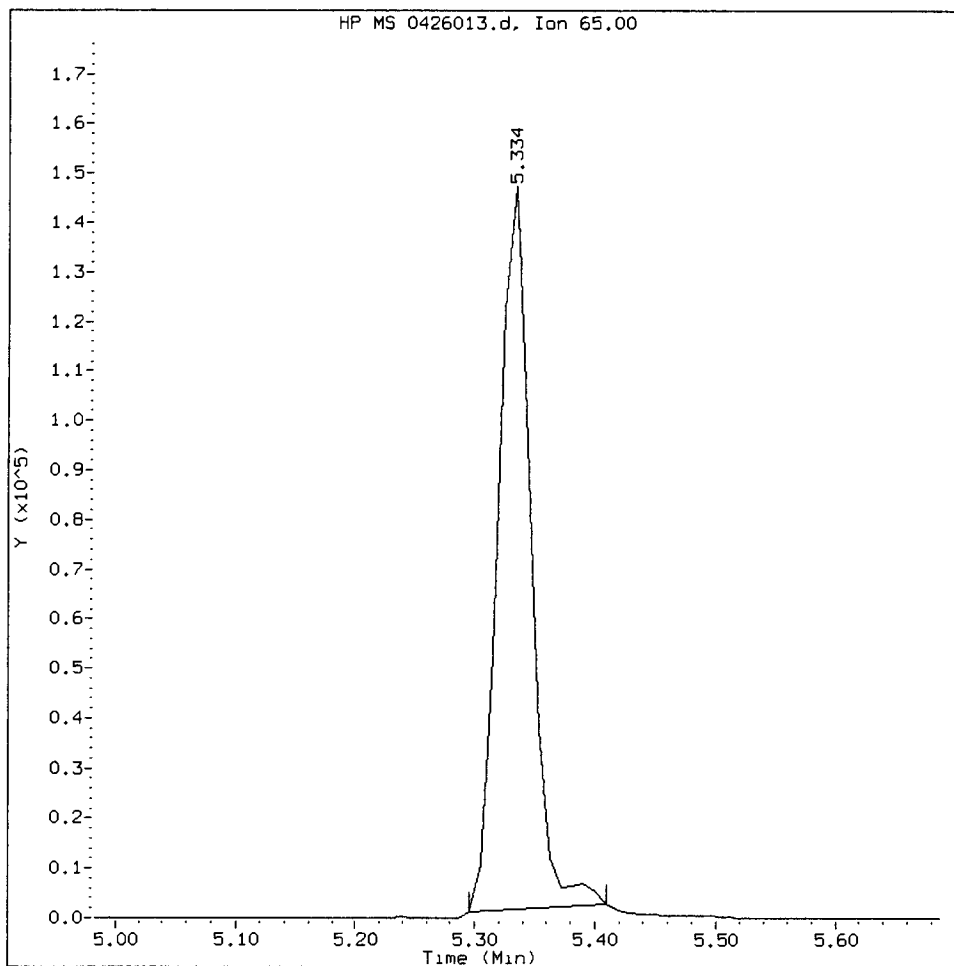
Data File: /chem1/nt7.1/26APR2011.b/0426013.d
Injection Date: 26-APR-2011 12:21
Instrument: nt7.1
Client Sample ID: 500

Compound: d4-1,2-Dichloroethane
CAS Number:



05000426, /chem1/nt7.i/26APR2011.b/0426013.d

d4-1,2-Dichloroethane Amount: 1045.01 Area: 292830



MANUAL INTEGRATION for d4-1,2-Dichloroethane

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

5. Other _____

Analyst: MH

Date: 5/4/11

CO-ELUTION SUMMARY FOR FILE - 0426013.d

Lab ID: 05000426, Method: sim042611.m, Instrument: nt7.i, Date: 26-APR-2011

RT CO-ELUTION COMPOUNDS

SU53 : 00331

MH
5/4/11

Data File: /chem1/nt7.i/26APR2011.b/0426014.d
Report Date: 04-May-2011 09:21

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/26APR2011.b/0426014.d
Lab Smp Id: 1000426 Client Smp ID: 1000
Inj Date : 26-APR-2011 12:47
Operator : MH Inst ID: nt7.i
Smp Info : 1000426,10,10,0,
Misc Info : 11-
Comment :
Method : /chem1/nt7.i/26APR2011.b/sim042611.m
Meth Date : 04-May-2011 06:35 monicah Quant Type: ISTD
Cal Date : 26-APR-2011 12:47 Cal File: 0426014.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT	SIG	AMOUNTS					
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62		1.554	1.554	(0.292)	412962	1000.00	1032.6
2 1,1-Dichloroethene	96		2.510	2.510	(0.471)	319114	1000.00	1002.8
175 Trans-1,2-Dichloroethene	96		3.289	3.289	(0.618)	320056	1000.00	990.01 (M)
3 cis-1,2-dichloroethene	96		4.444	4.444	(0.834)	362692	1000.00	1050.9 (M)
6 Benzene	78		5.212	5.212	(0.906)	1519641	1000.00	993.97 (M)
* 4 Pentafluorobenzene	168		5.326	5.326	(1.000)	363407	1000.00	
\$ 5 d4-1,2-Dichloroethane	65		5.335	5.335	(1.002)	324433	1000.00	990.68 (M)
176 1,2-Dichloroethane	62		5.392	5.392	(1.012)	538579	1000.00	1040.5
8 Trichloroethene	130		5.720	5.720	(0.994)	260900	1000.00	996.47 (M)
* 7 1,4-Difluorobenzene	114		5.754	5.754	(1.000)	667797	1000.00	
\$ 9 d8-Toluene	98		6.914	6.914	(1.202)	857919	1000.00	1008.5
10 Tetrachloroethene	166		7.271	7.271	(1.264)	211681	1000.00	1047.7
11 1,1,2,2-Tetrachloroethane	83		9.458	9.458	(1.644)	264894	1000.00	1095.2

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0426014.d
Lab Smp Id: 1000426
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem1/nt7.i/26APR2011.b/sim042611.m
Misc Info: 11-

Calibration Date: 26-APR-2011
Calibration Time: 12:47
Client Smp ID: 1000
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	363407	181704	726814	363407	0.00
7 1,4-Difluorobenze	667797	333898	1335594	667797	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.33	4.83	5.83	5.33	0.00
7 1,4-Difluorobenze	5.75	5.25	6.25	5.75	0.00

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

Data File: /chem1/nt7.i/26APR2011.b/0426014.d

Date: 26-APR-2011 12:47

Client ID: 1000

Sample Info: 1000426,10,10,0,

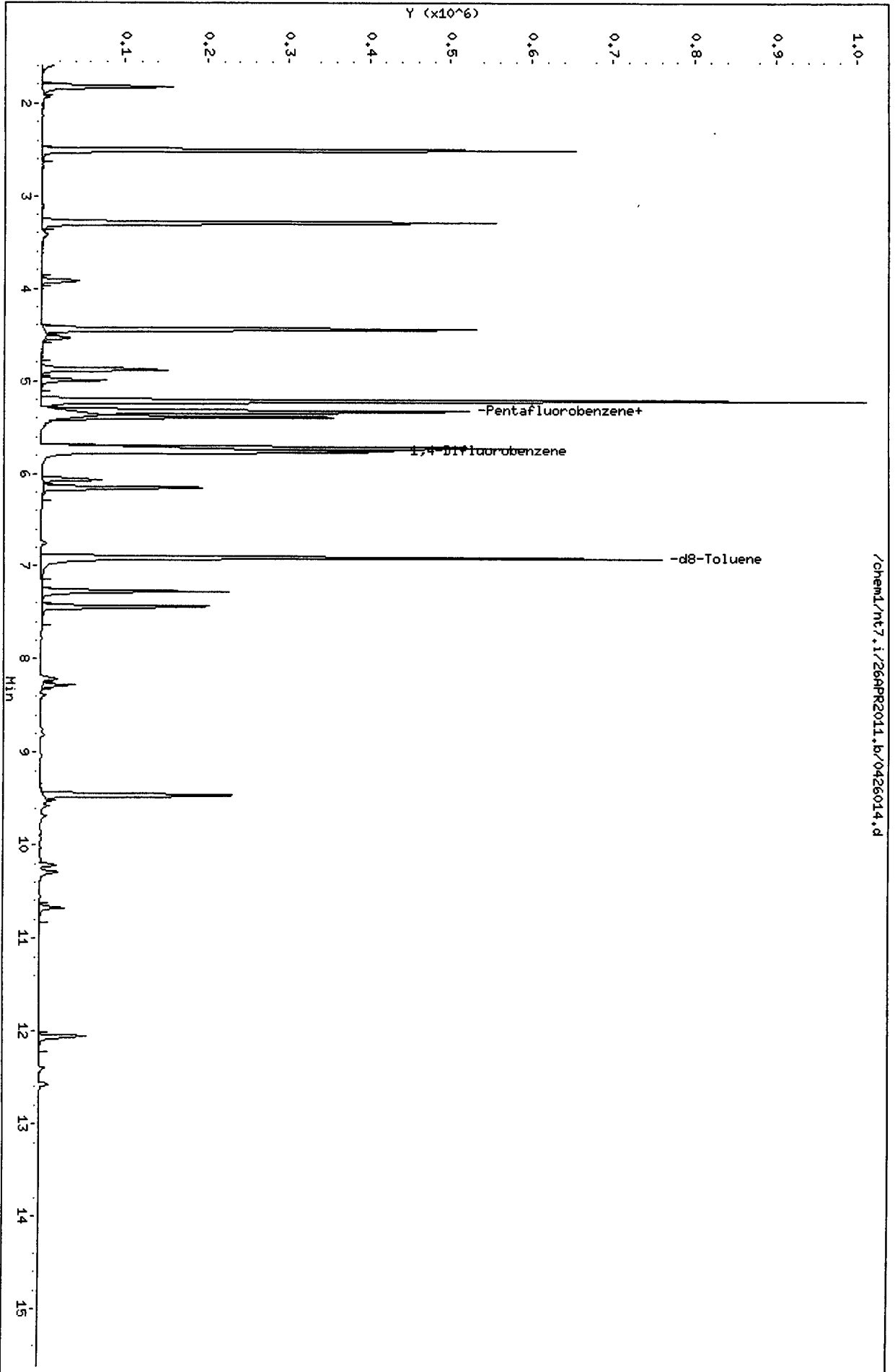
Column phase: RTXVMS

Instrument: nt7.i

Operator: HH

Column diameter: 0.18

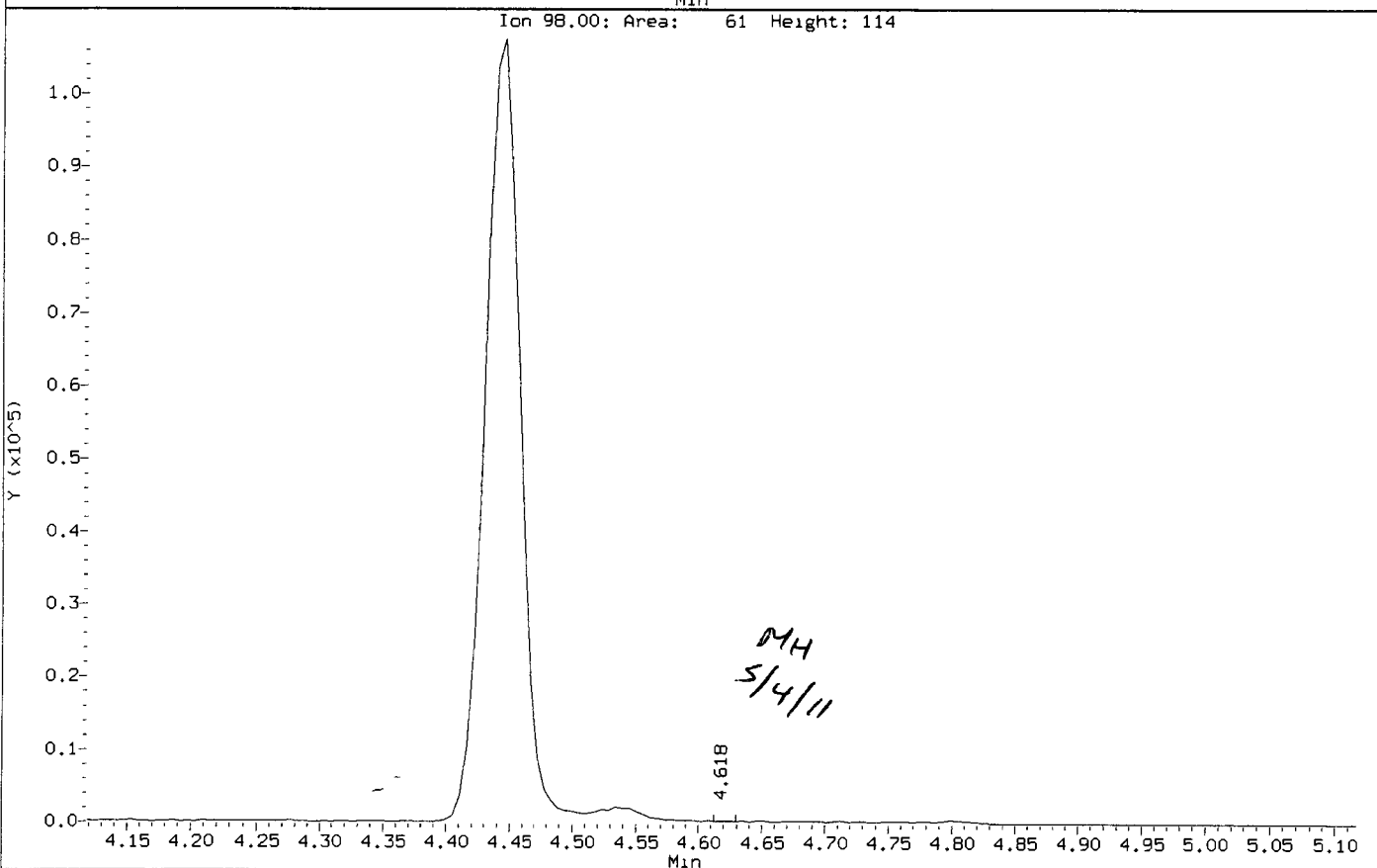
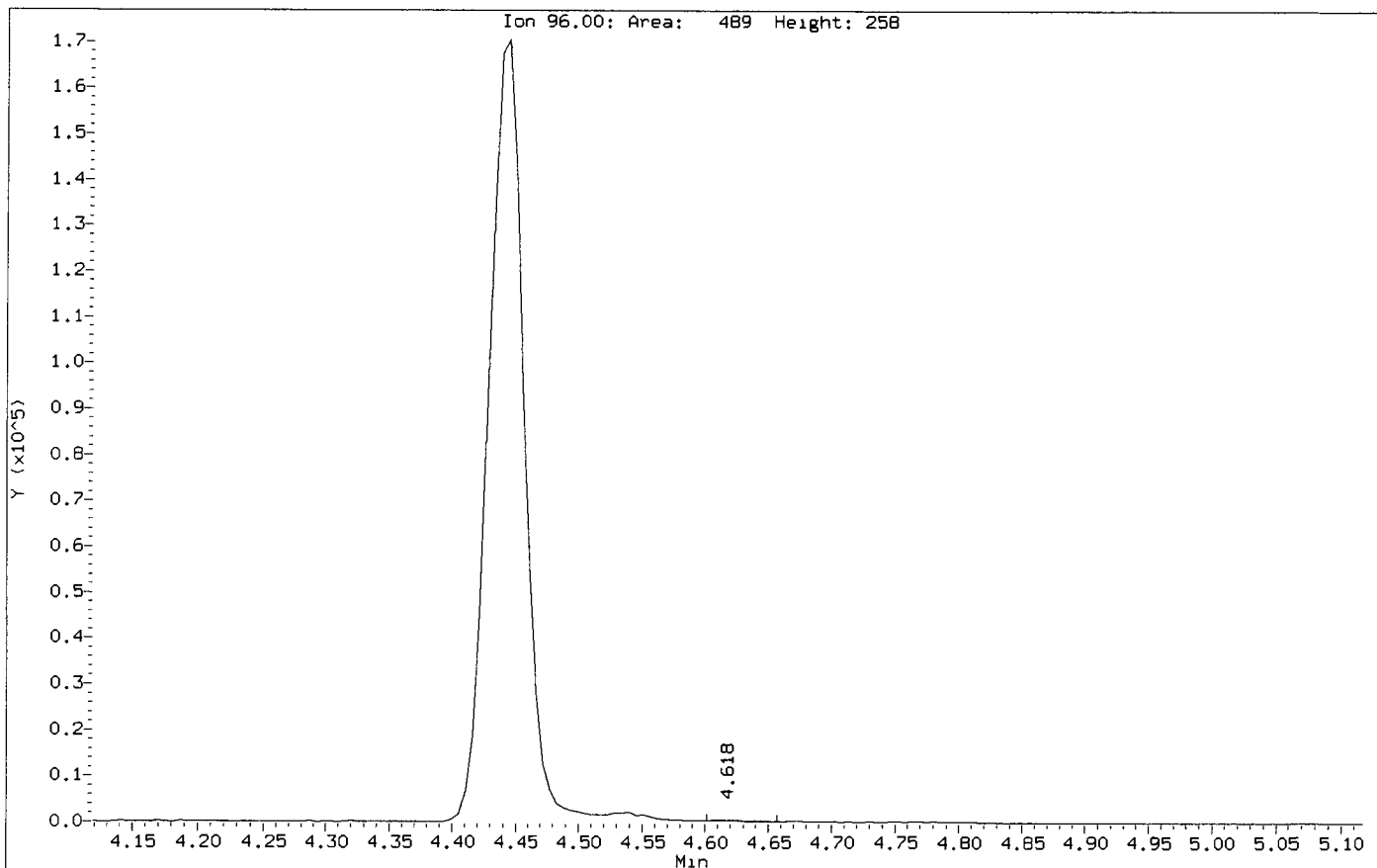
/chem1/nt7.i/26APR2011.b/0426014.d



000000 : 000000

Data File: /chem1/nt7.1/26APR2011.b/0426014.d
Injection Date: 26-APR-2011 12:47
Instrument: nt7.1
Client Sample ID: 1000

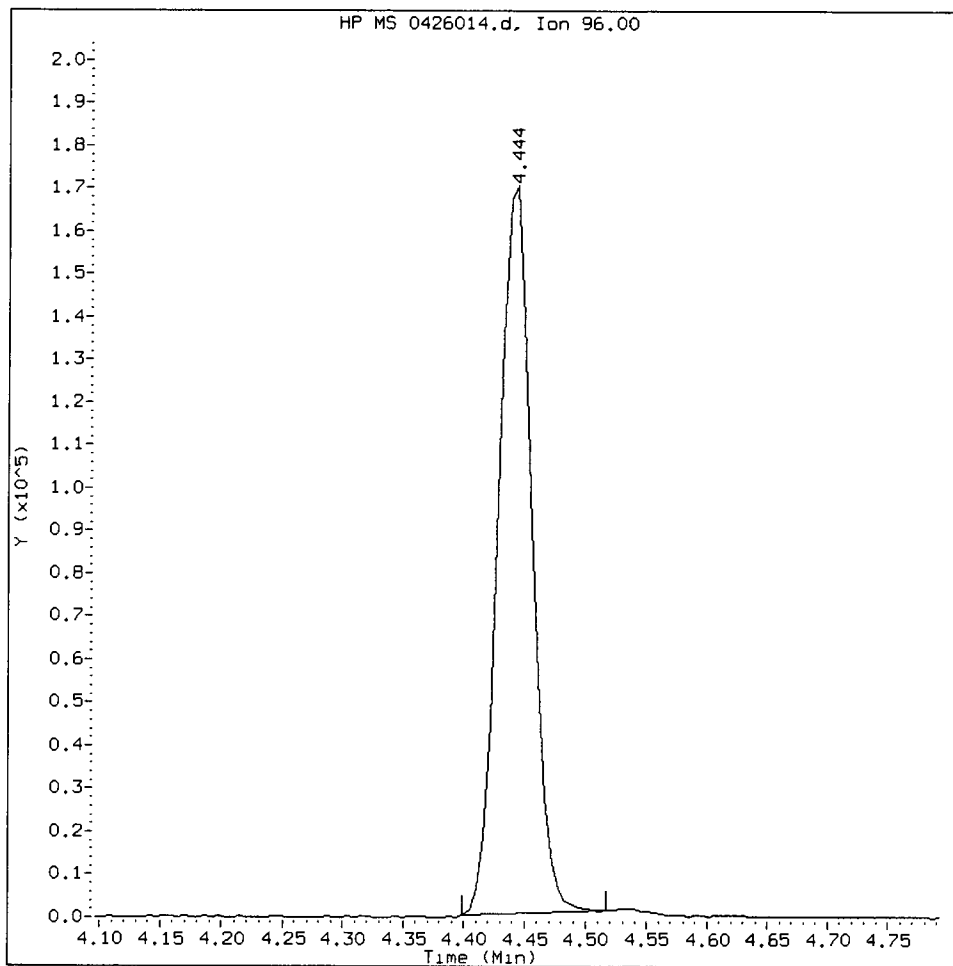
Compound: cis-1,2-dichloroethene
CAS Number:



SU53: 00336

1000426, /chem1/nt7.i/26APR2011.b/0426014.d

cis-1,2-dichloroethene Amount: 1050.87 Area: 362692



MANUAL INTEGRATION for cis-1,2-dichloroethene

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

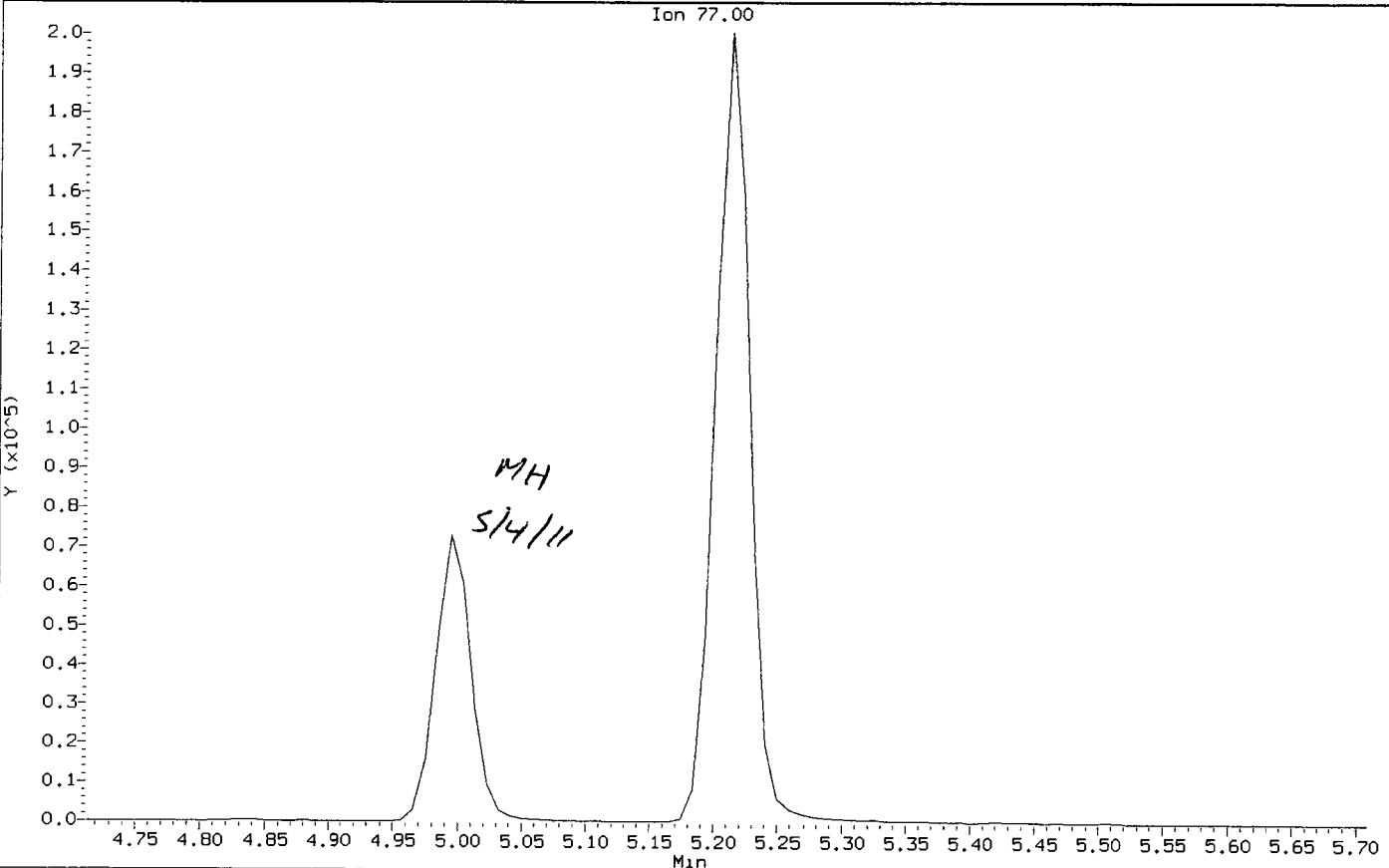
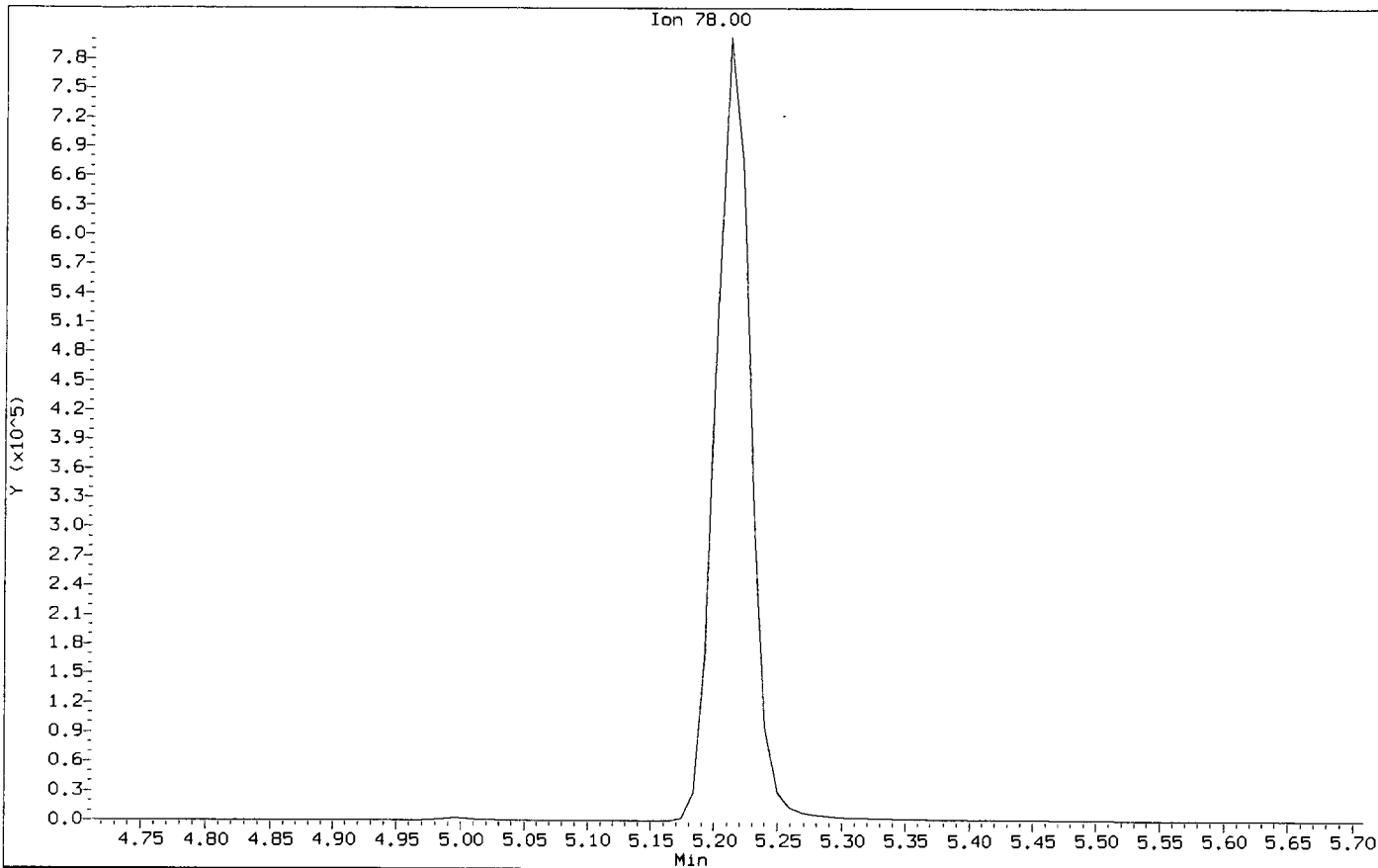
5. Other _____

Analyst: MH

Date: 5/4/11

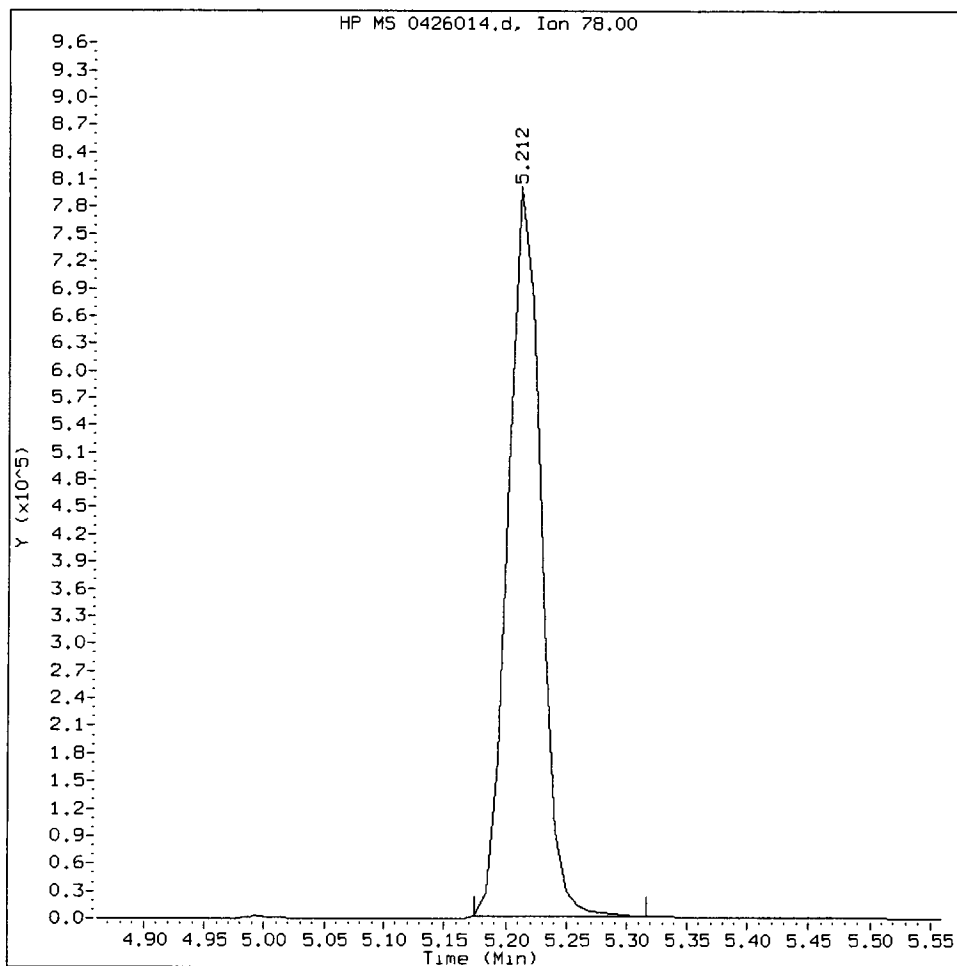
Data File: /chem1/nt7.1/26APR2011.b/0426014.d
Injection Date: 26-APR-2011 12:47
Instrument: nt7.1
Client Sample ID: 1000

Compound: Benzene
CAS Number:



1000426, /chem1/nt7.i/26APR2011.b/0426014.d

Benzene Amount: 993.97 Area: 1519641



MANUAL INTEGRATION for Benzene

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

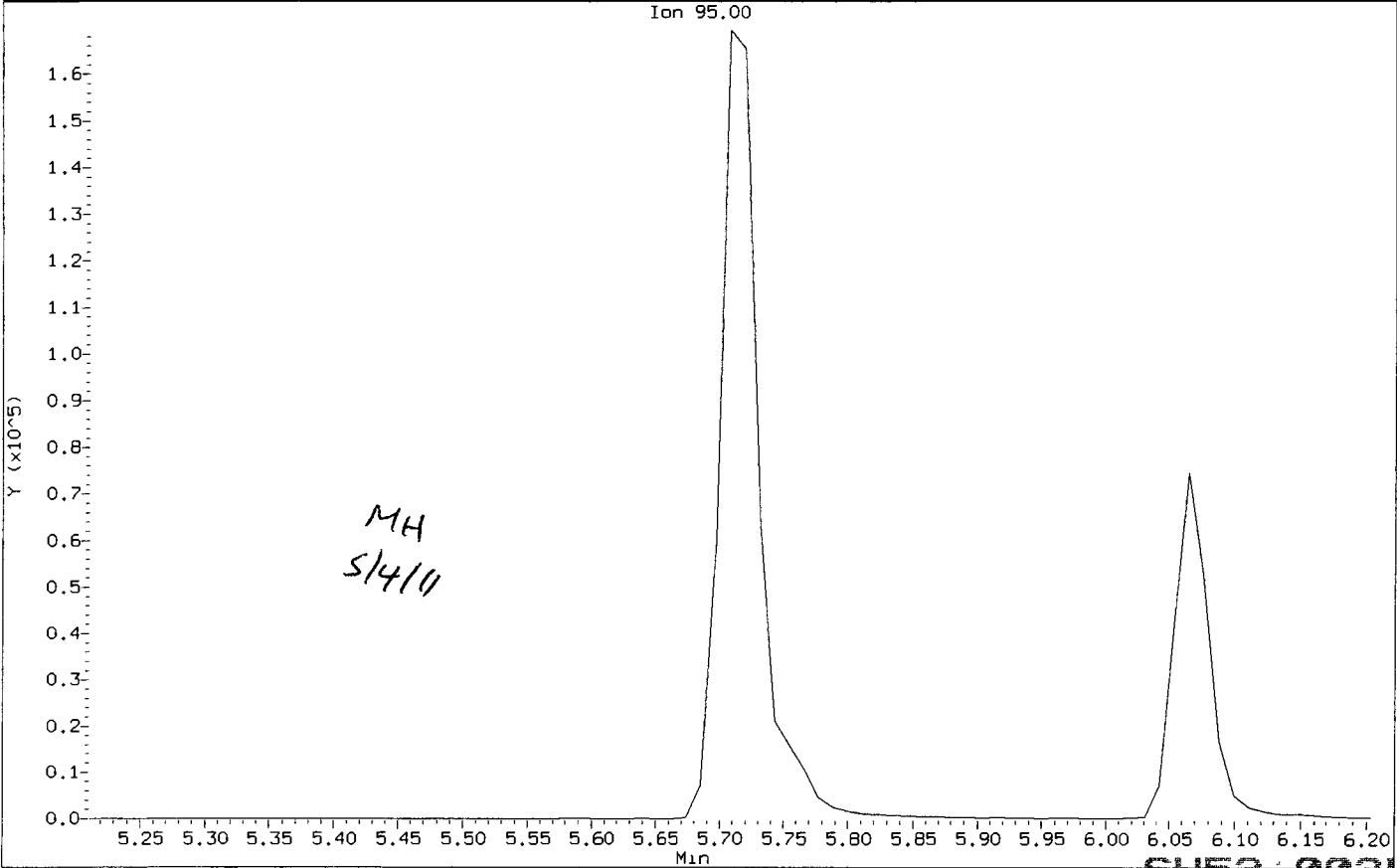
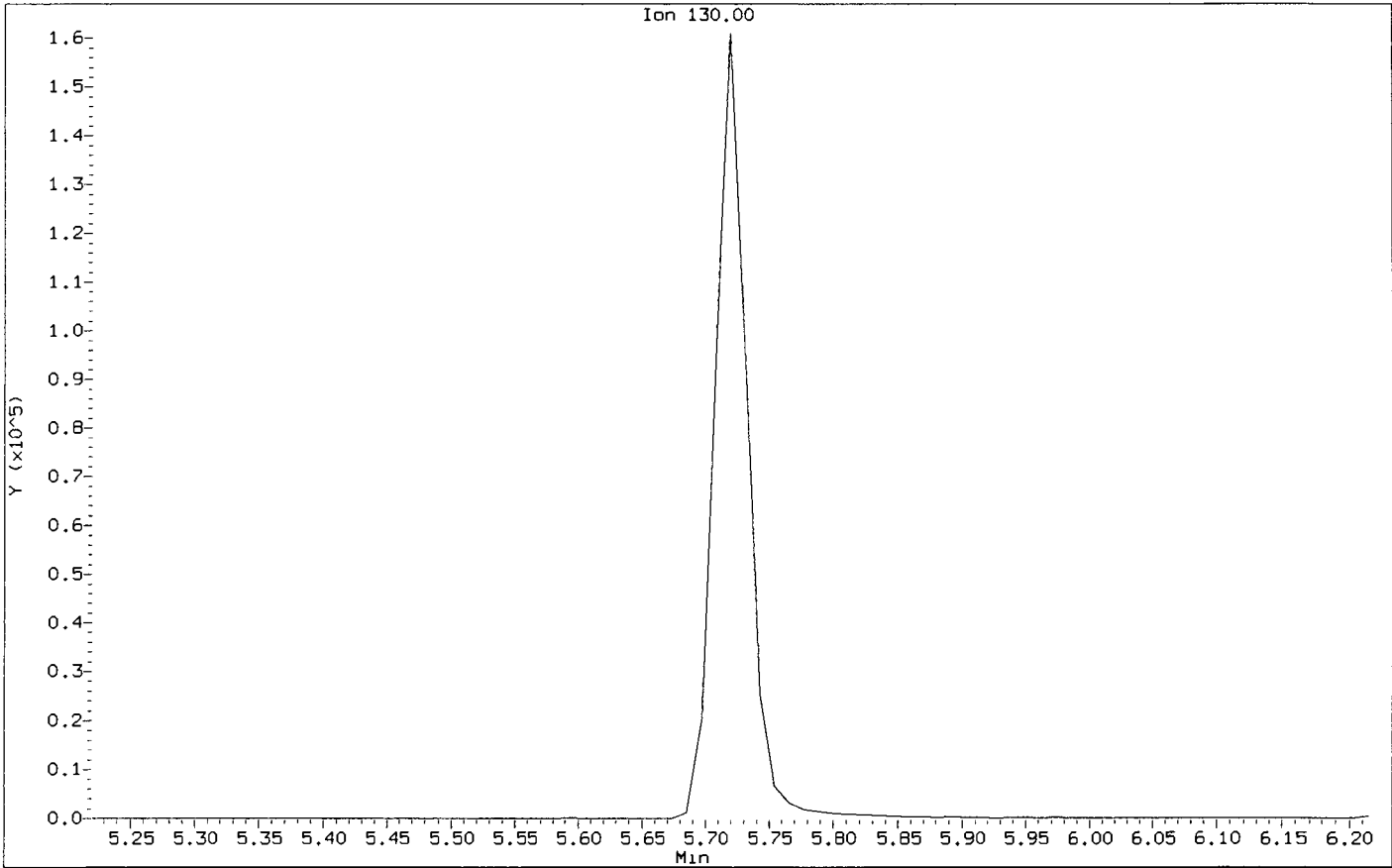
5. Other _____

Analyst: MH

Date: 5/4/11

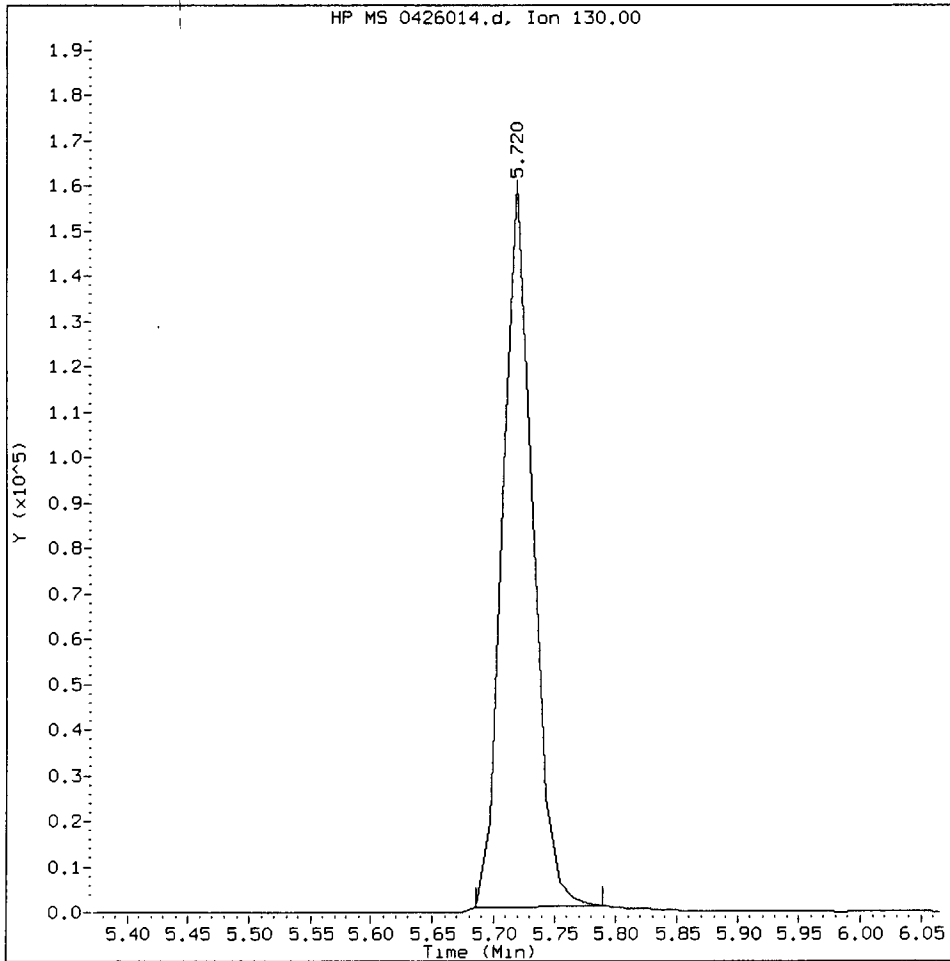
Data File: /chem1/nt7.1/26APR2011.b/0426014.d
Injection Date: 26-APR-2011 12:47
Instrument: nt7.1
Client Sample ID: 1000

Compound: Trichloroethene
CAS Number:



1000426, /chem1/nt7.i/26APR2011.b/0426014.d

Trichloroethene Amount: 996.47 Area: 260900



MANUAL INTEGRATION for Trichloroethene

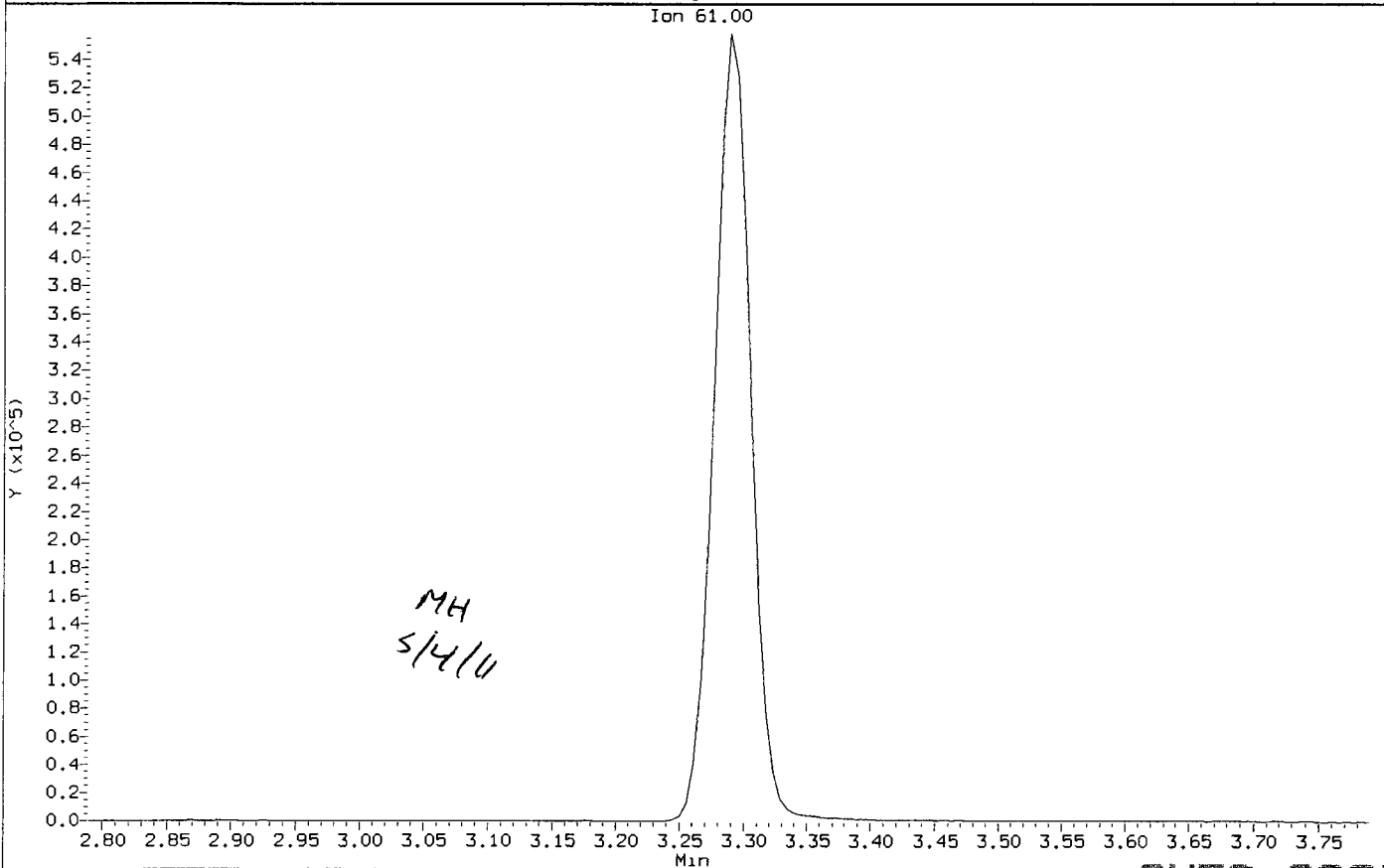
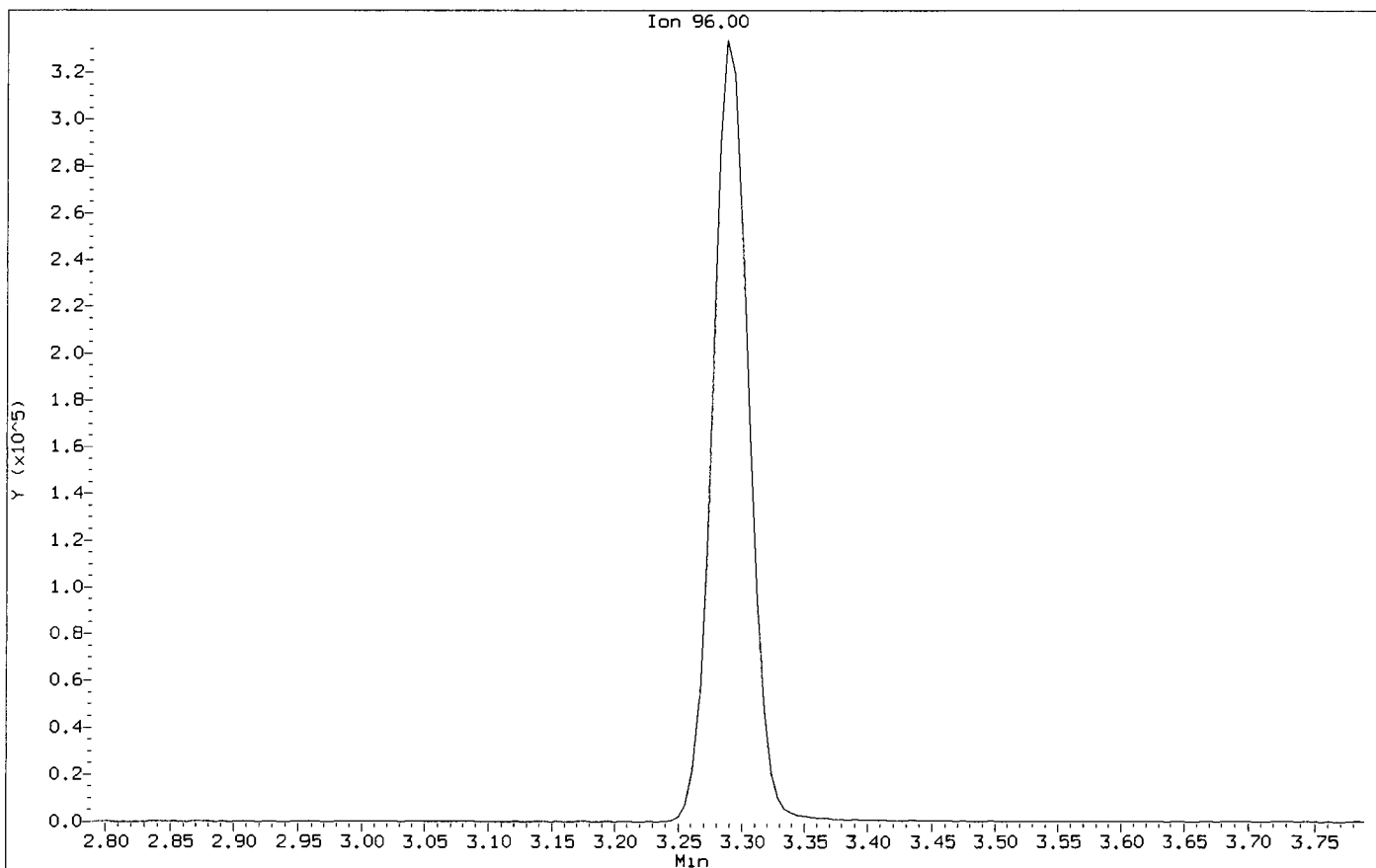
1. Baseline correction
2. Poor chromatography
3. Peak not found
4. Totals calculation

5. Other _____

Analyst: MH Date: 5/4/11

Data File: /chem1/nt7.1/26APR2011.b/0426016.d
Injection Date: 26-APR-2011 13:37
Instrument: nt7.1
Client Sample ID: 2000

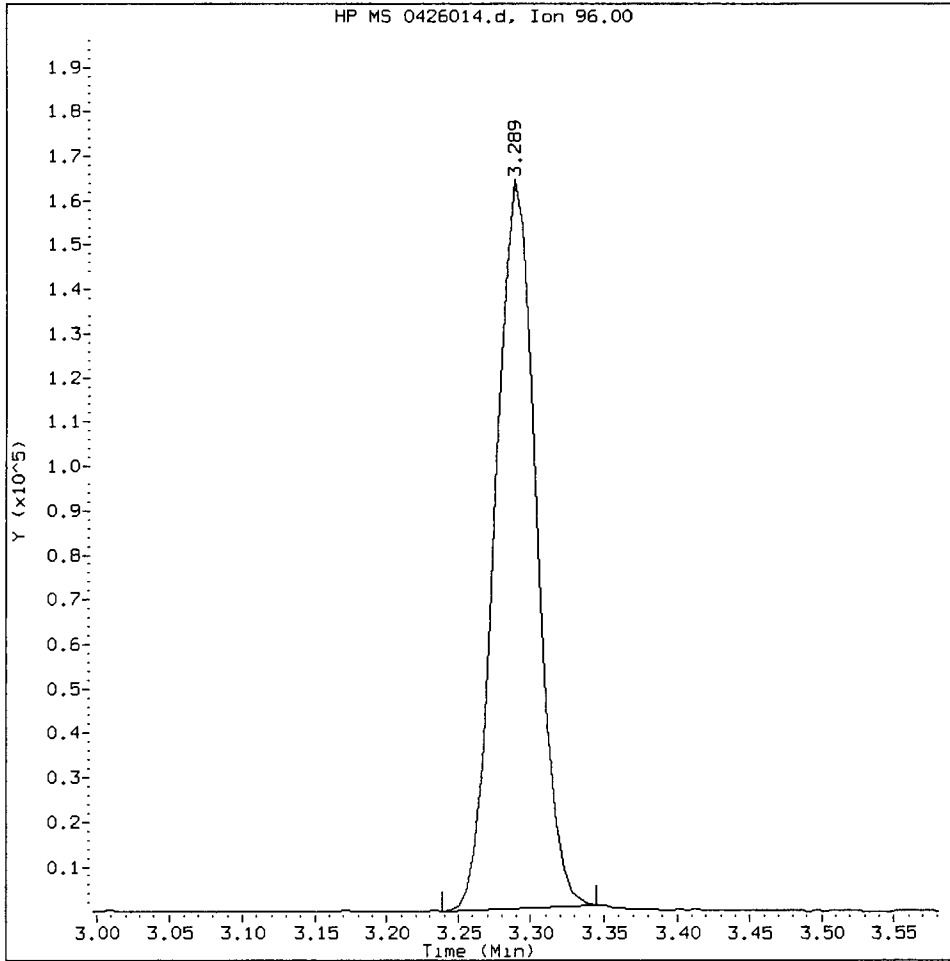
Compound: Trans-1,2-Dichloroethene
CAS Number:



SU53:00342

1000426, /chem1/nt7.i/26APR2011.b/0426014.d

Trans-1,2-Dichloroethene Amount: 990.01 Area: 320056



MANUAL INTEGRATION for Trans-1,2-Dichloroethene

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

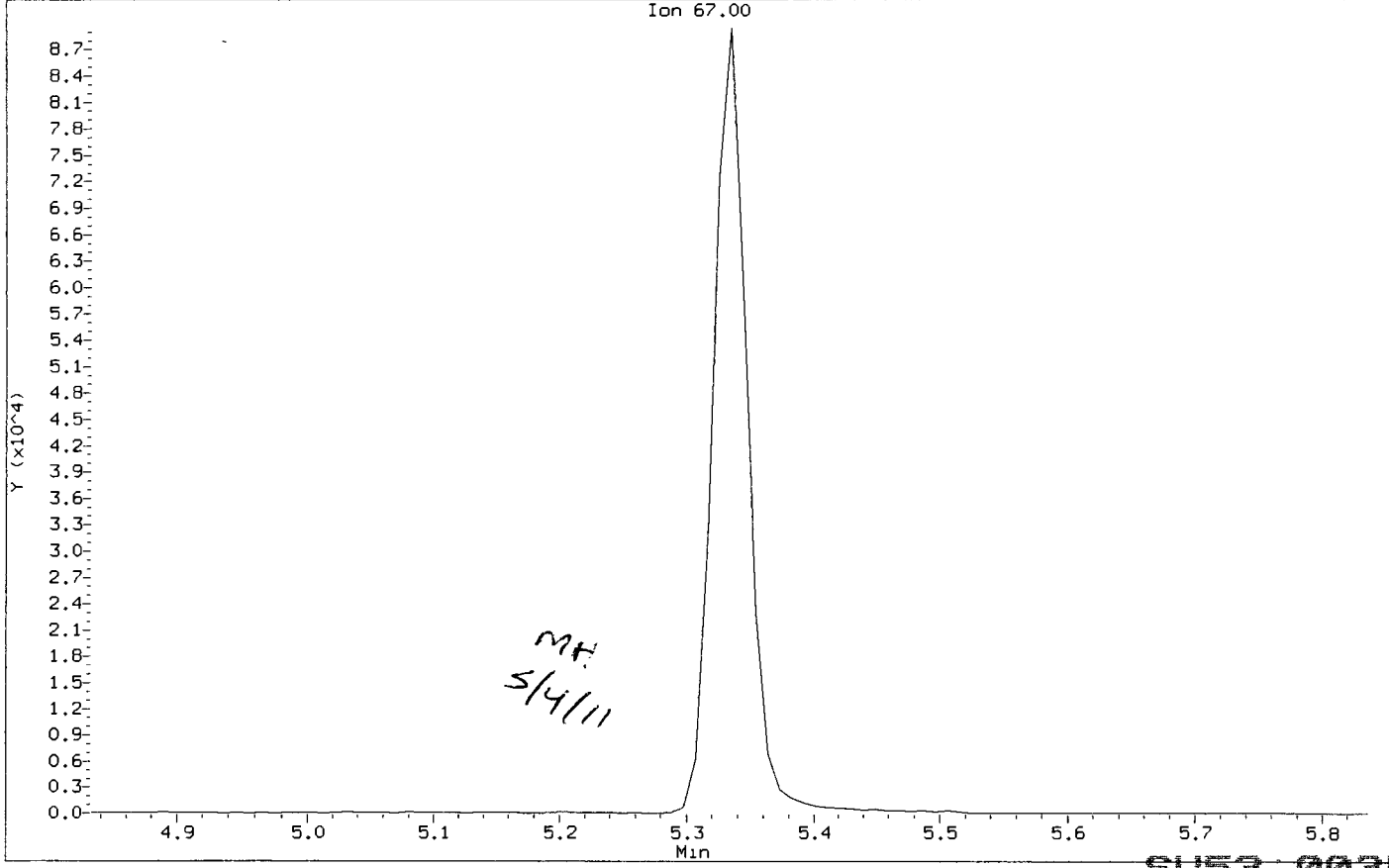
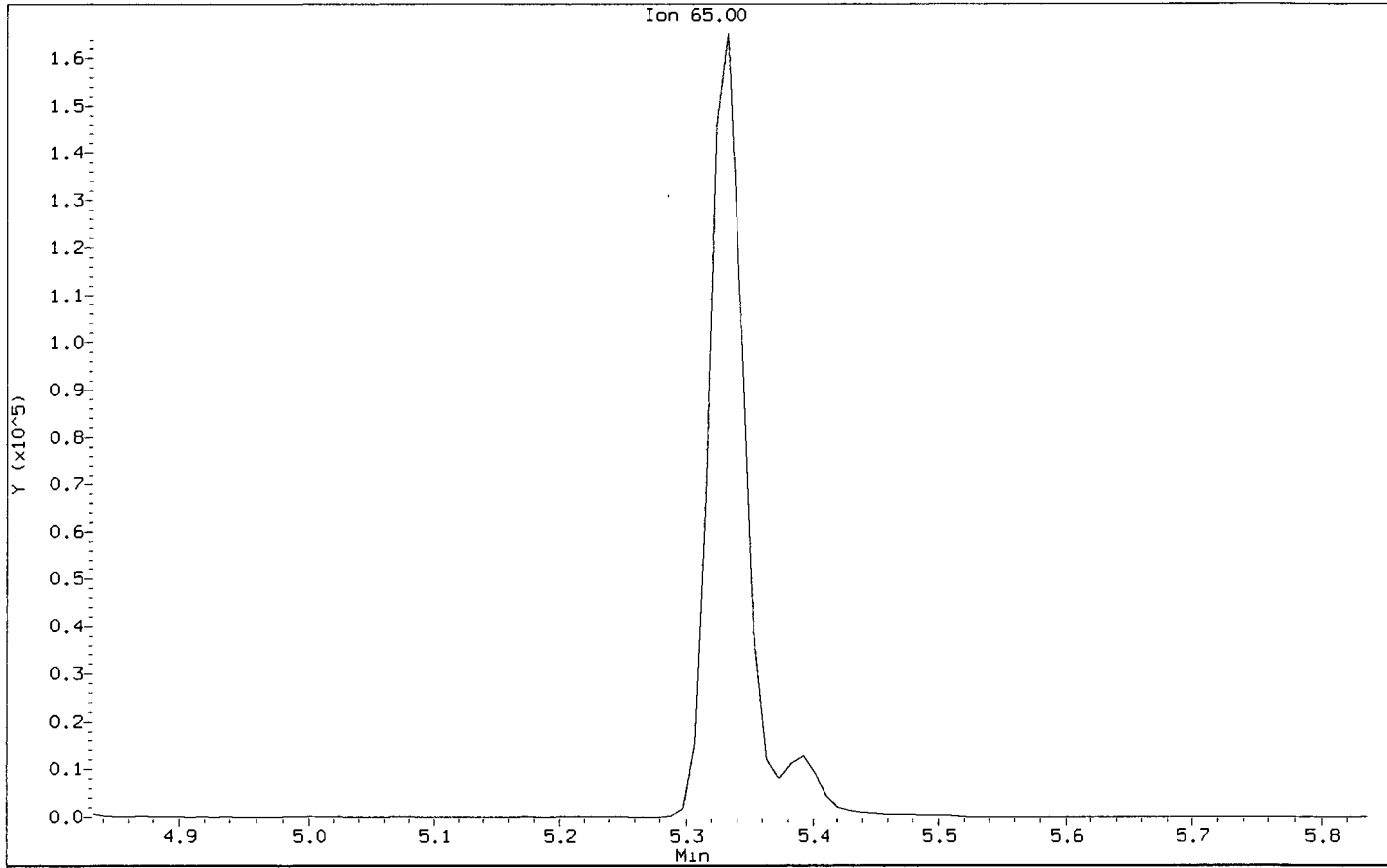
Analyst: MH

Date: 5/4/11

SU53: 00343

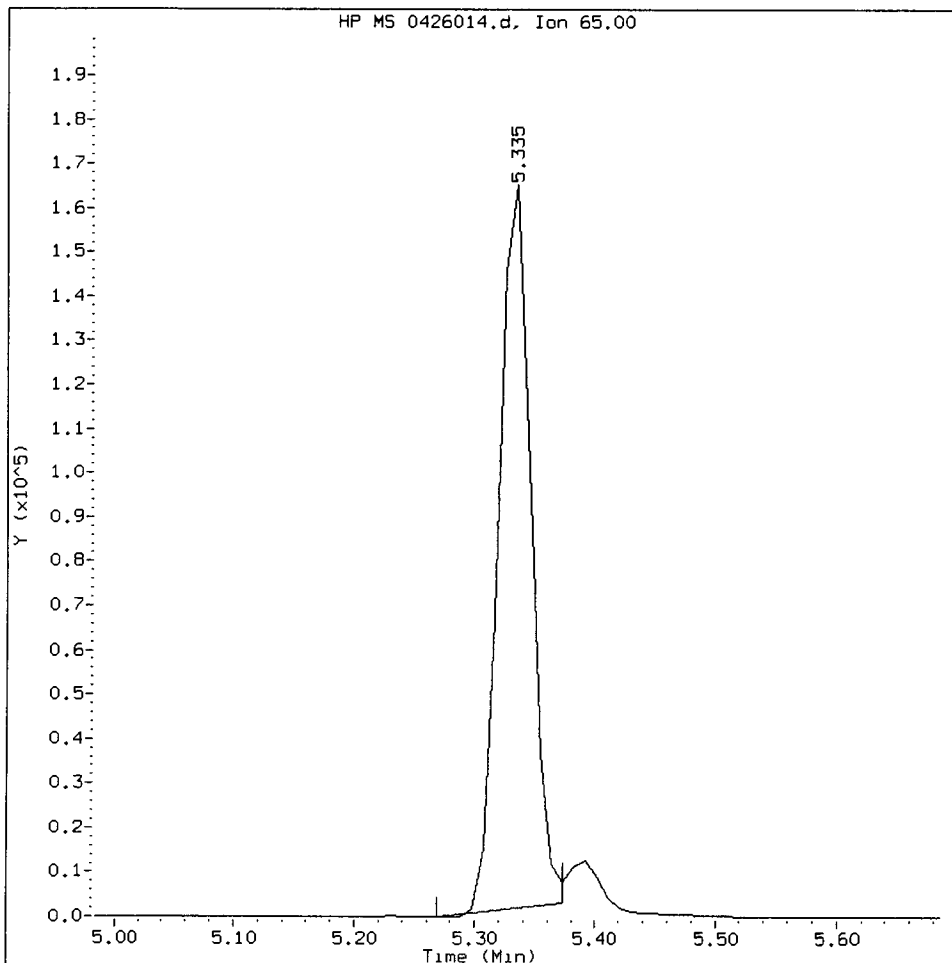
Data File: /chem1/nt7.1/26APR2011.b/0426014.d
Injection Date: 26-APR-2011 12:47
Instrument: nt7.1
Client Sample ID: 1000

Compound: d4-1,2-Dichloroethane
CAS Number:



1000426, /chem1/nt7.i/26APR2011.b/0426014.d

d4-1,2-Dichloroethane Amount: 990.68 Area: 324433



MANUAL INTEGRATION for d4-1,2-Dichloroethane

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

5. Other _____

Analyst: MH

Date: 5/4/11

CO-ELUTION SUMMARY FOR FILE - 0426014.d

Lab ID: 1000426, Method: sim042611.m, Instrument: nt7.i, Date: 26-APR-2011

RT CO-ELUTION COMPOUNDS

SU53:00346

MH
5/4/11

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/26APR2011.b/0426016.d
 Lab Smp Id: 20000426 Client Smp ID: 2000
 Inj Date : 26-APR-2011 13:37
 Operator : MH Inst ID: nt7.i
 Smp Info : 20000426,10,10,0,
 Misc Info : 11-
 Comment :
 Method : /chem1/nt7.i/26APR2011.b/sim042611.m
 Meth Date : 04-May-2011 06:35 monicah Quant Type: ISTD
 Cal Date : 26-APR-2011 13:37 Cal File: 0426016.d
 Als bottle: 1 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sim12dca.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT	SIG	AMOUNTS					
			RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/L)	ON-COL (ng/L)
1 Vinyl Chloride	62		1.552	1.554	(0.291)	836647	2000.00	1767.9
2 1,1-Dichloroethene	96		2.510	2.510	(0.471)	644283	2000.00	1711.1
175 Trans-1,2-Dichloroethene	96		3.289	3.289	(0.618)	645317	2000.00	1687.0 (M)
3 cis-1,2-dichloroethene	96		4.444	4.444	(0.835)	738732	2000.00	1808.9 (M)
6 Benzene	78		5.212	5.212	(0.906)	3063572	2000.00	1676.4 (M)
* 4 Pentafluorobenzene	168		5.326	5.326	(1.000)	430008	1000.00	
\$ 5 d4-1,2-Dichloroethane	65		5.335	5.335	(1.002)	373663	1000.00	964.28 (M)
176 1,2-Dichloroethane	62		5.392	5.392	(1.012)	1080610	2000.00	1764.4
8 Trichloroethene	130		5.720	5.720	(0.994)	542909	2000.00	1734.8 (M)
* 7 1,4-Difluorobenzene	114		5.754	5.754	(1.000)	798217	1000.00	
\$ 9 d8-Toluene	98		6.915	6.914	(1.202)	1021719	1000.00	1004.8
10 Tetrachloroethene	166		7.271	7.271	(1.264)	434314	2000.00	1798.4
11 1,1,2,2-Tetrachloroethane	83		9.458	9.458	(1.644)	541391	2000.00	1872.6

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0426016.d
Lab Smp Id: 20000426
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem1/nt7.i/26APR2011.b/sim042611.m
Misc Info: 11-

Calibration Date: 26-APR-2011
Calibration Time: 12:47
Client Smp ID: 2000
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	363407	181704	726814	430008	18.33
7 1,4-Difluorobenze	667797	333898	1335594	798217	19.53

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.33	4.83	5.83	5.33	0.00
7 1,4-Difluorobenze	5.75	5.25	6.25	5.75	0.00

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

Data File: /chem1/nt7.i/26APR2011.b/0426016.d

Date : 26-APR-2011 13:37

Client ID: 2000

Sample Info: 20000426,10,10,0,

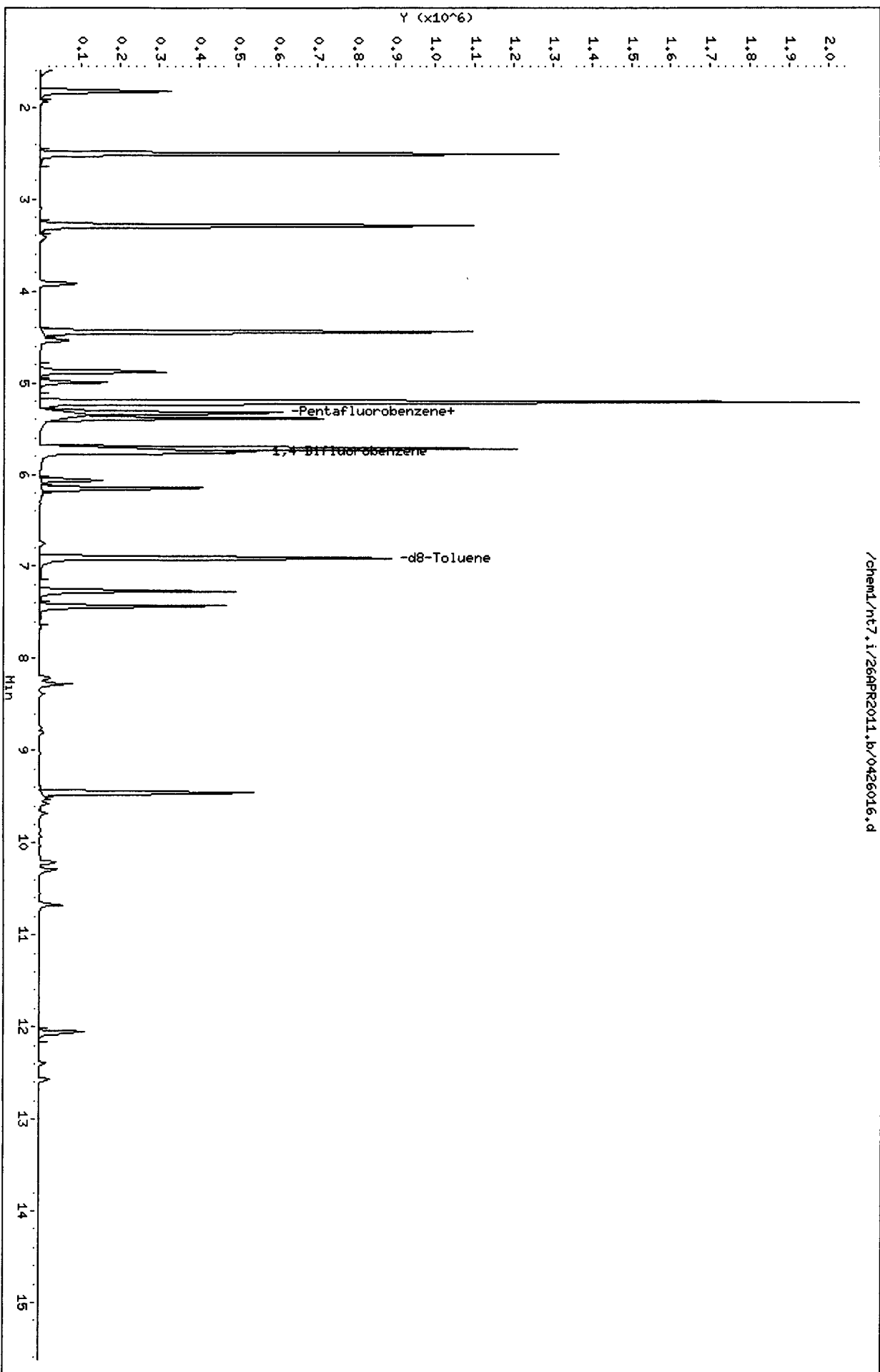
Column phase: RTXVMS

Instrument: nt7.i

Operator: MH

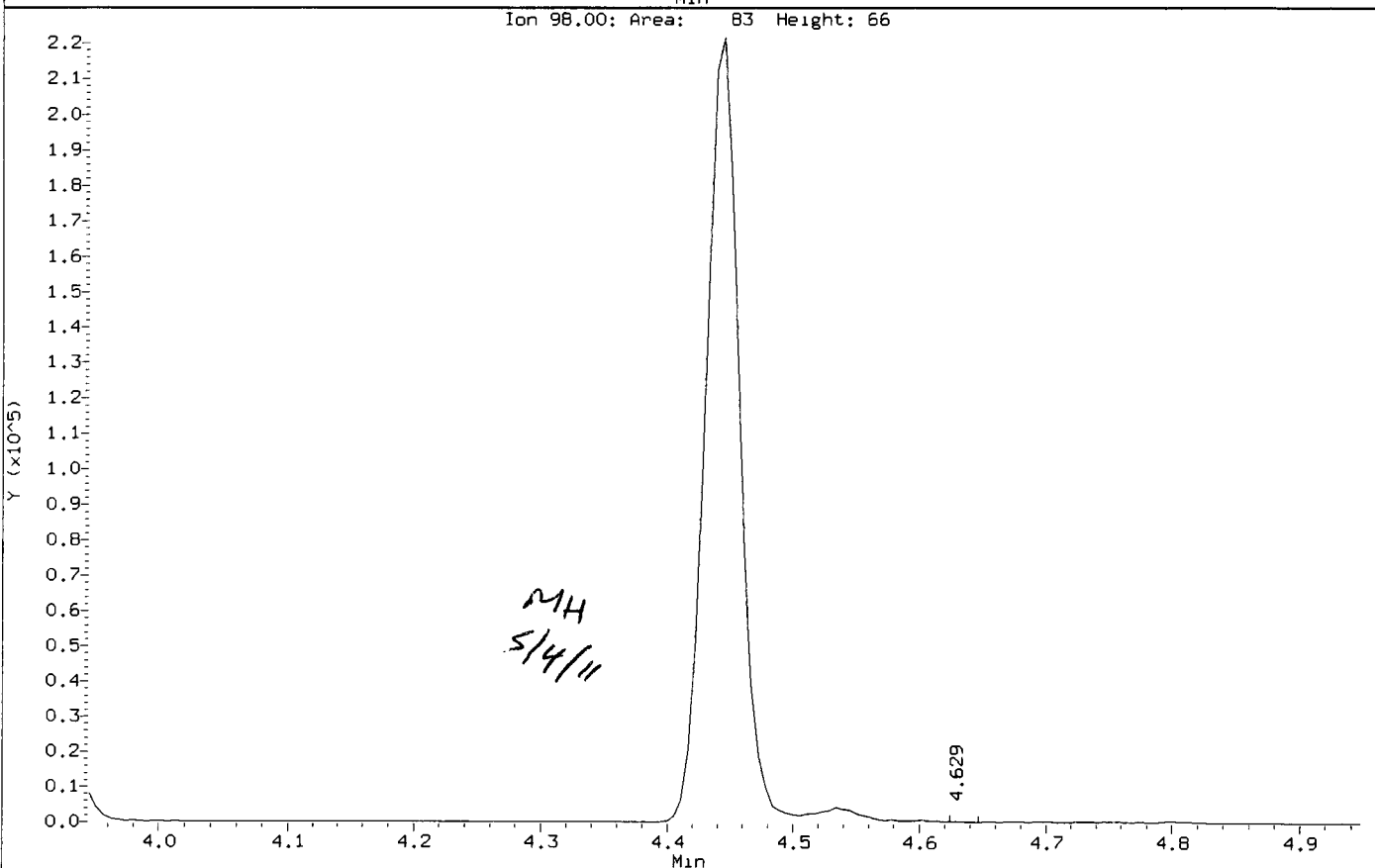
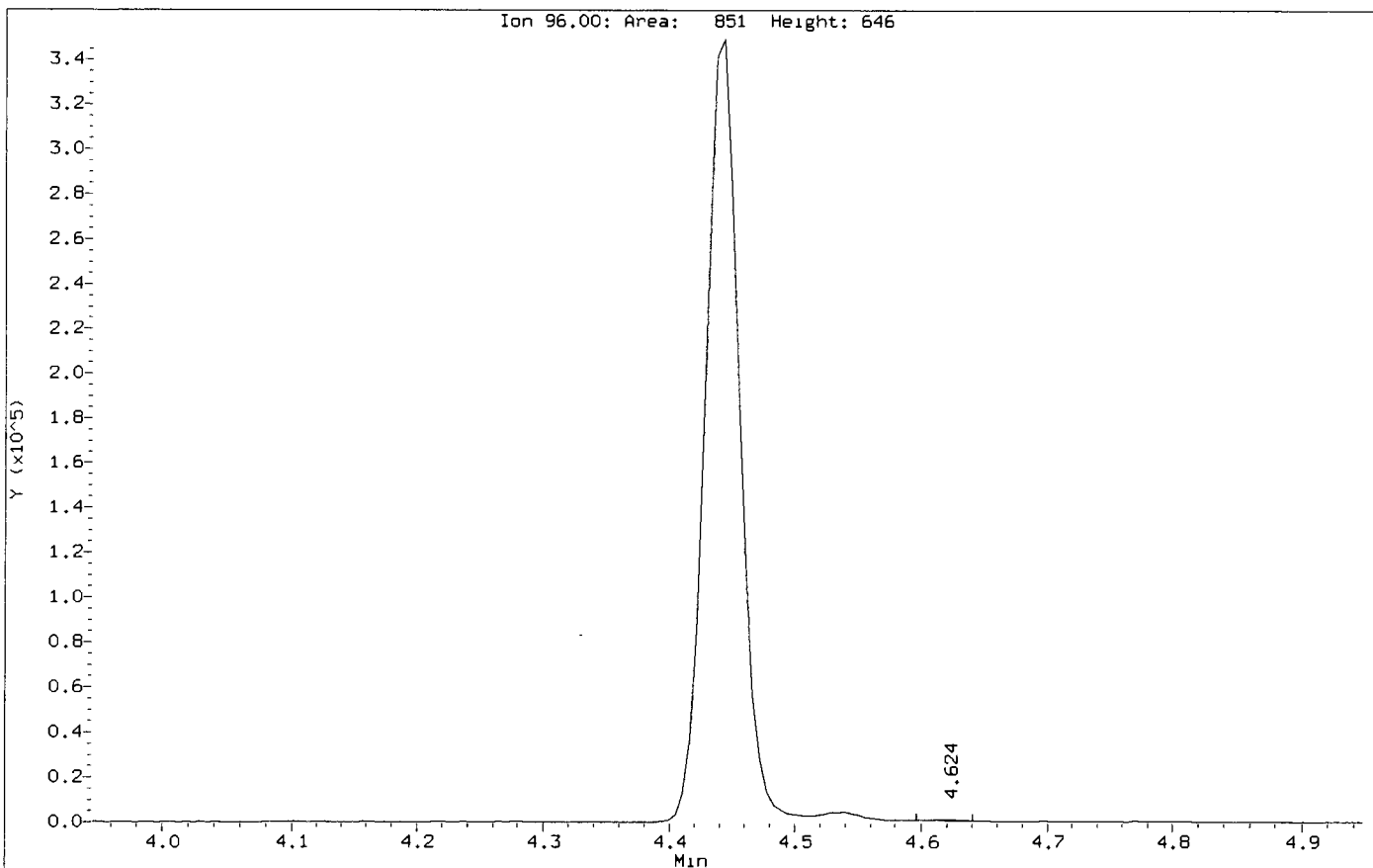
Column diameter: 0.18

/chem1/nt7.i/26APR2011.b/0426016.d



Data File: /chem1/nt7.1/26APR2011.b/0426016.d
Injection Date: 26-APR-2011 13:37
Instrument: nt7.1
Client Sample ID: 2000

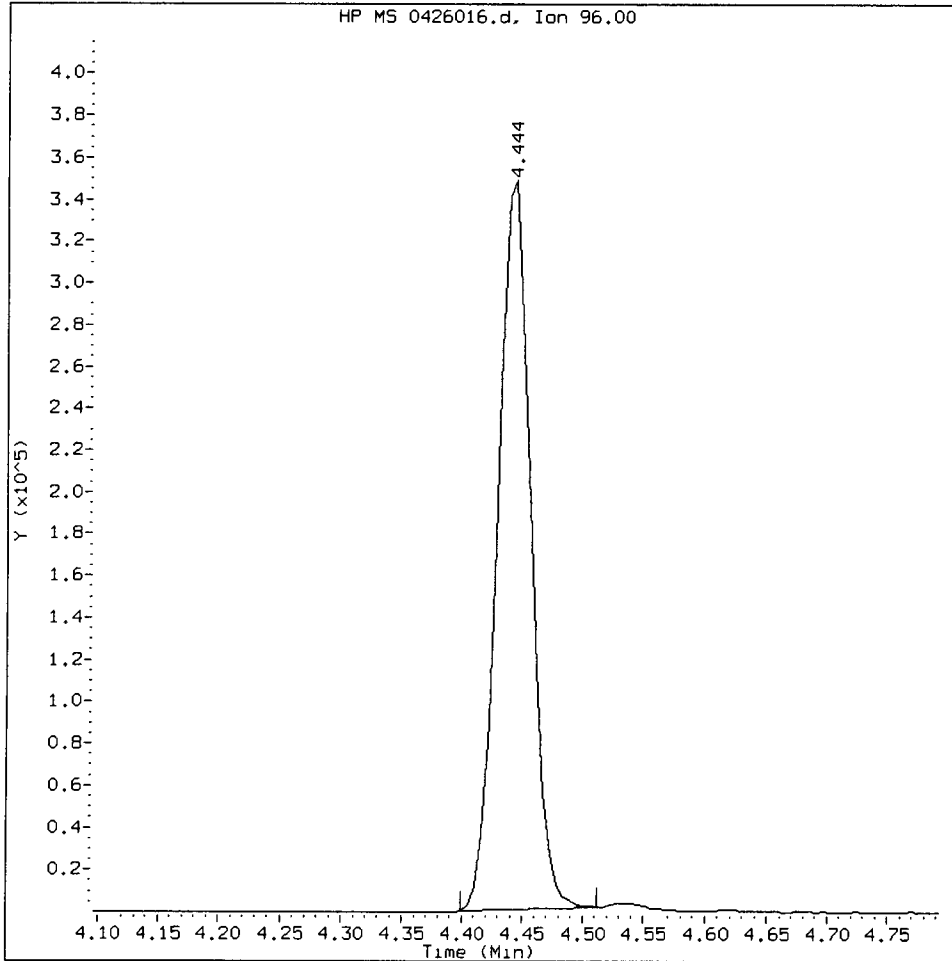
Compound: cis-1,2-dichloroethene
CAS Number:



SU53:00351

20000426, /chem1/nt7.i/26APR2011.b/0426016.d

cis-1,2-dichloroethene Amount: 1808.90 Area: 738732



MANUAL INTEGRATION for cis-1,2-dichloroethene

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

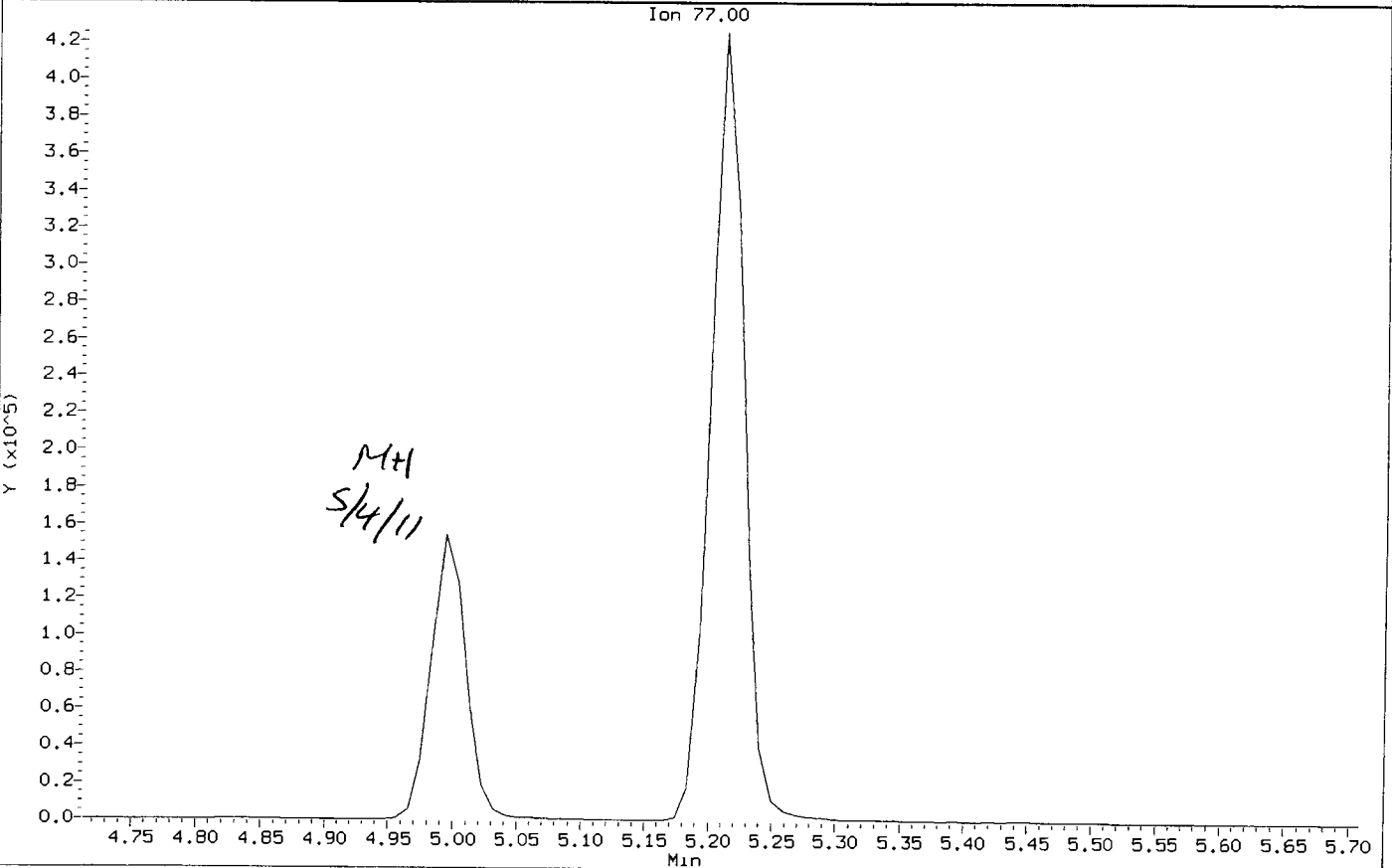
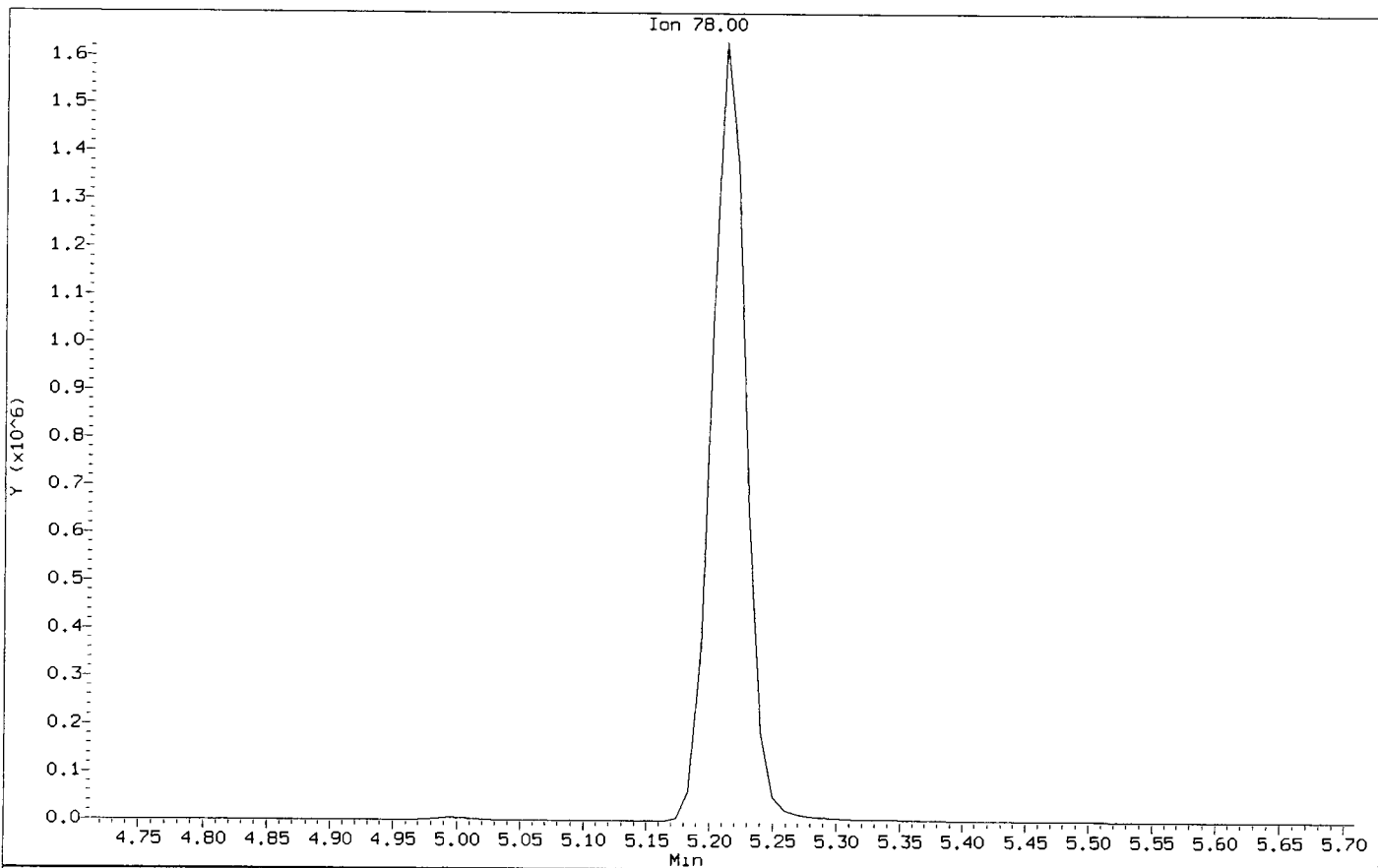
5. Other _____

Analyst: MH

Date: 5/4/11

Data File: /chem1/nt7.1/26APR2011.b/0426016.d
Injection Date: 26-APR-2011 13:37
Instrument: nt7.1
Client Sample ID: 2000

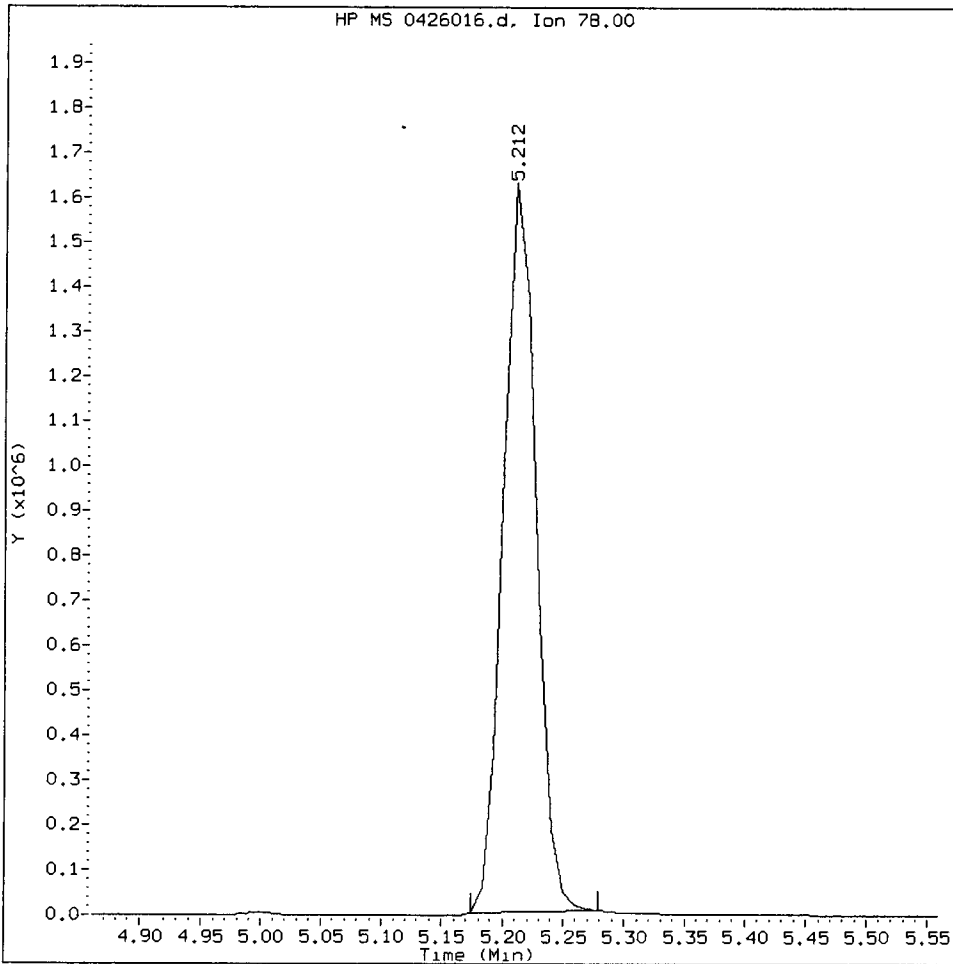
Compound: Benzene
CAS Number:



SU53 : 00353

20000426, /chem1/nt7.i/26APR2011.b/0426016.d

Benzene Amount: 1676.43 Area: 3063572



MANUAL INTEGRATION for Benzene

1. Baseline correction
2. Poor chromatography
- ~~3.~~ Peak not found
4. Totals calculation

5. Other _____

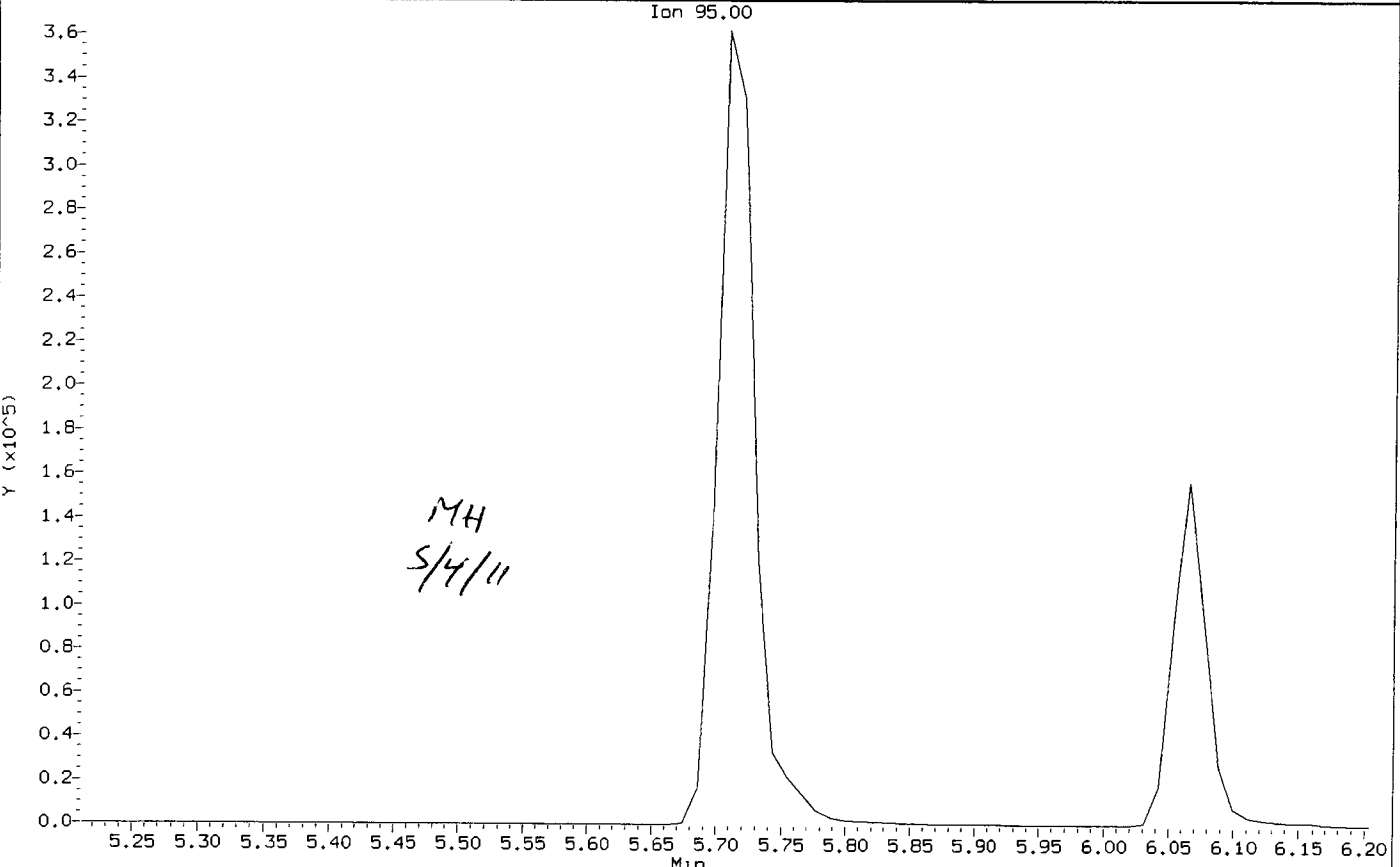
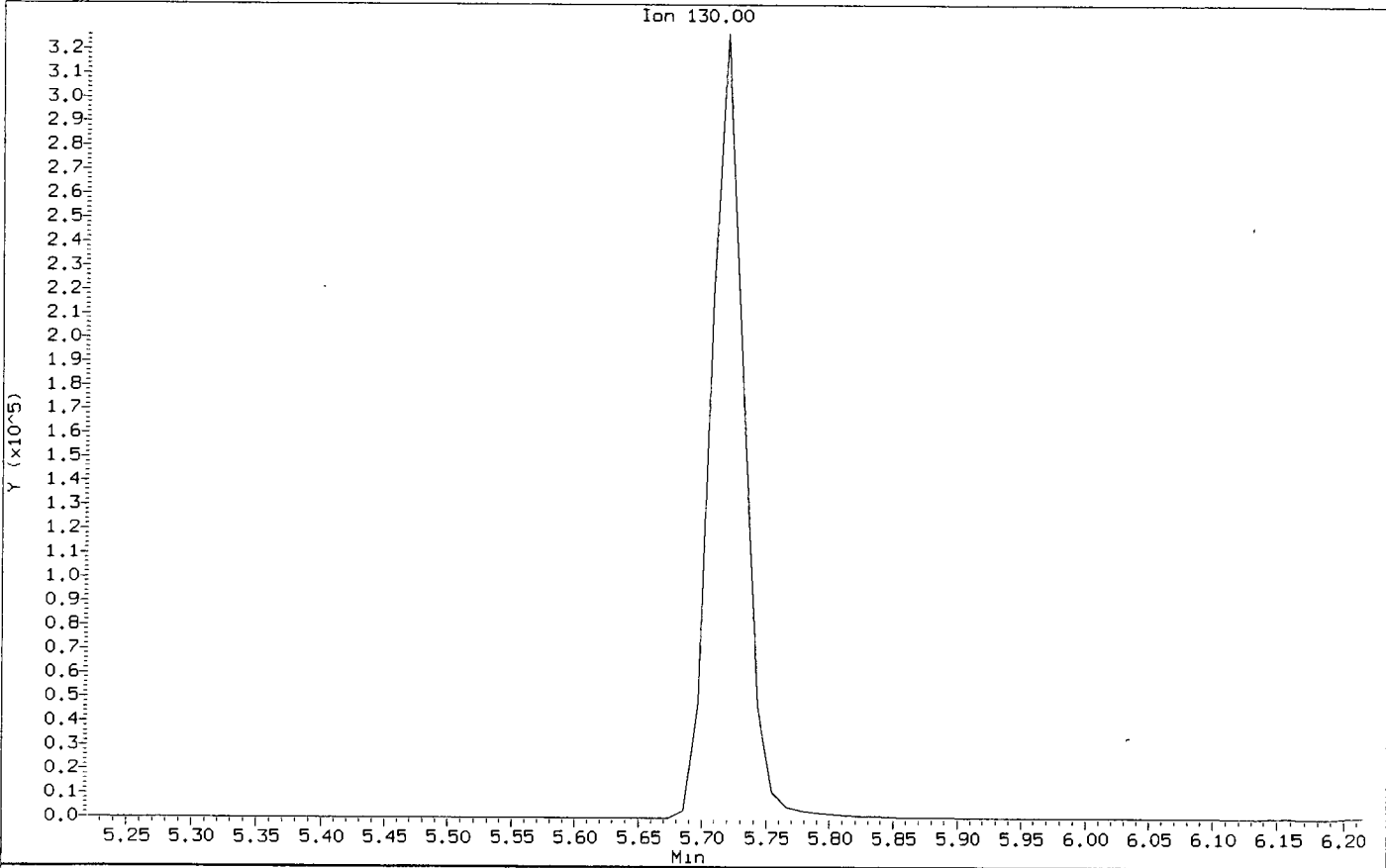
Analyst: MH

Date: 5/4/11

SU53 : 00354

Data File: /chem1/nt7.1/26APR2011.b/0426016.d
Injection Date: 26-APR-2011 13:37
Instrument: nt7.1
Client Sample ID: 2000

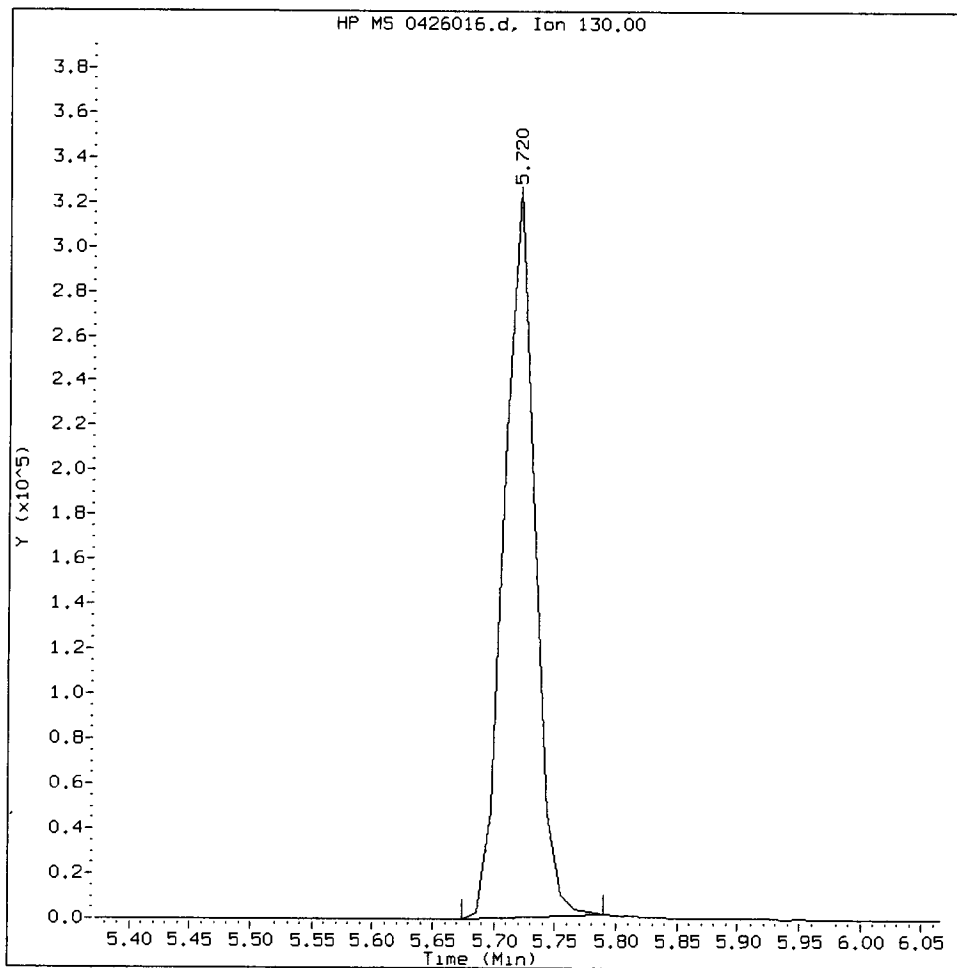
Compound: Trichloroethene
CAS Number:



SU53: 00355

20000426, /chem1/nt7.i/26APR2011.b/0426016.d

Trichloroethene Amount: 1734.77 Area: 542909



MANUAL INTEGRATION for Trichloroethene

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

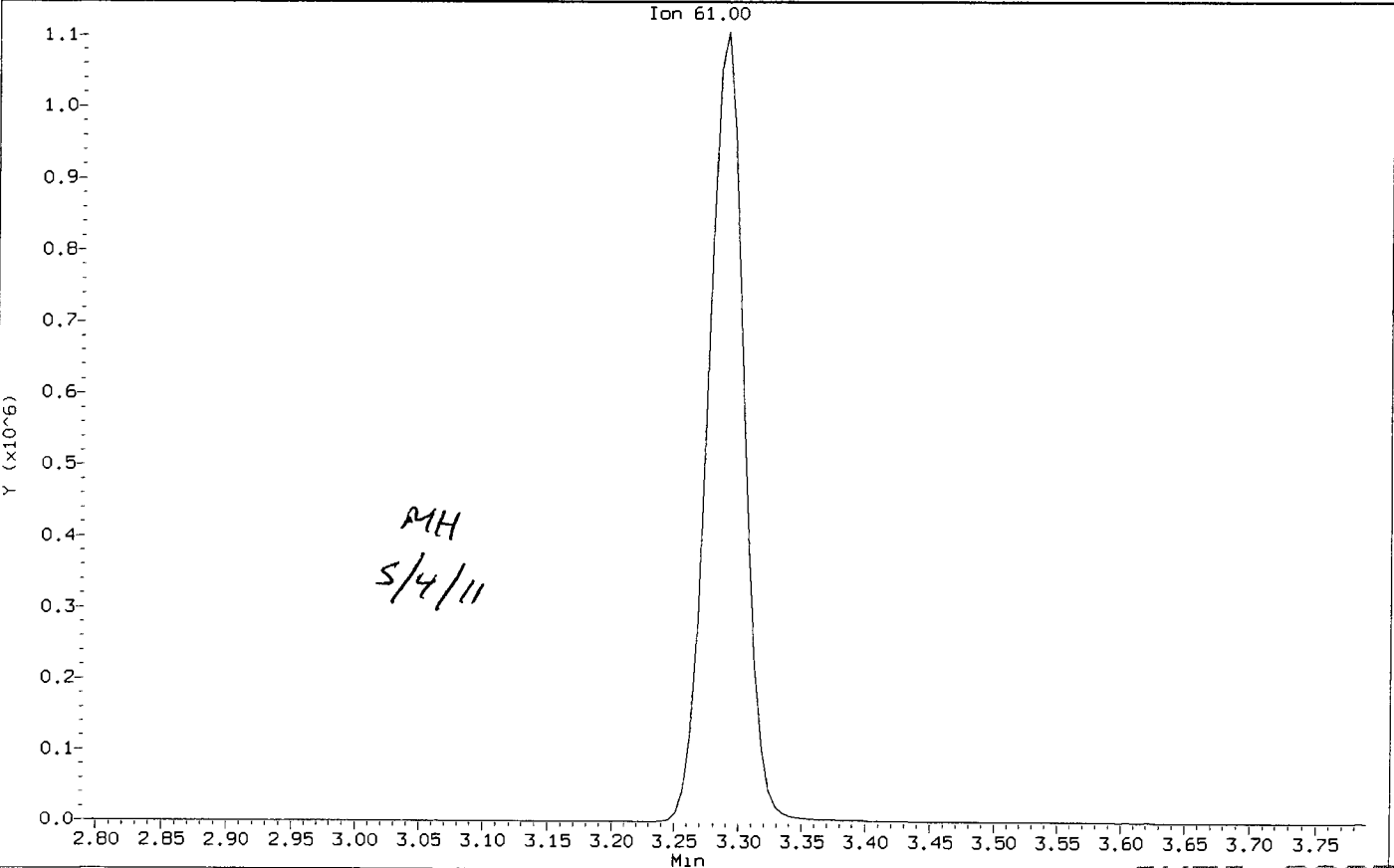
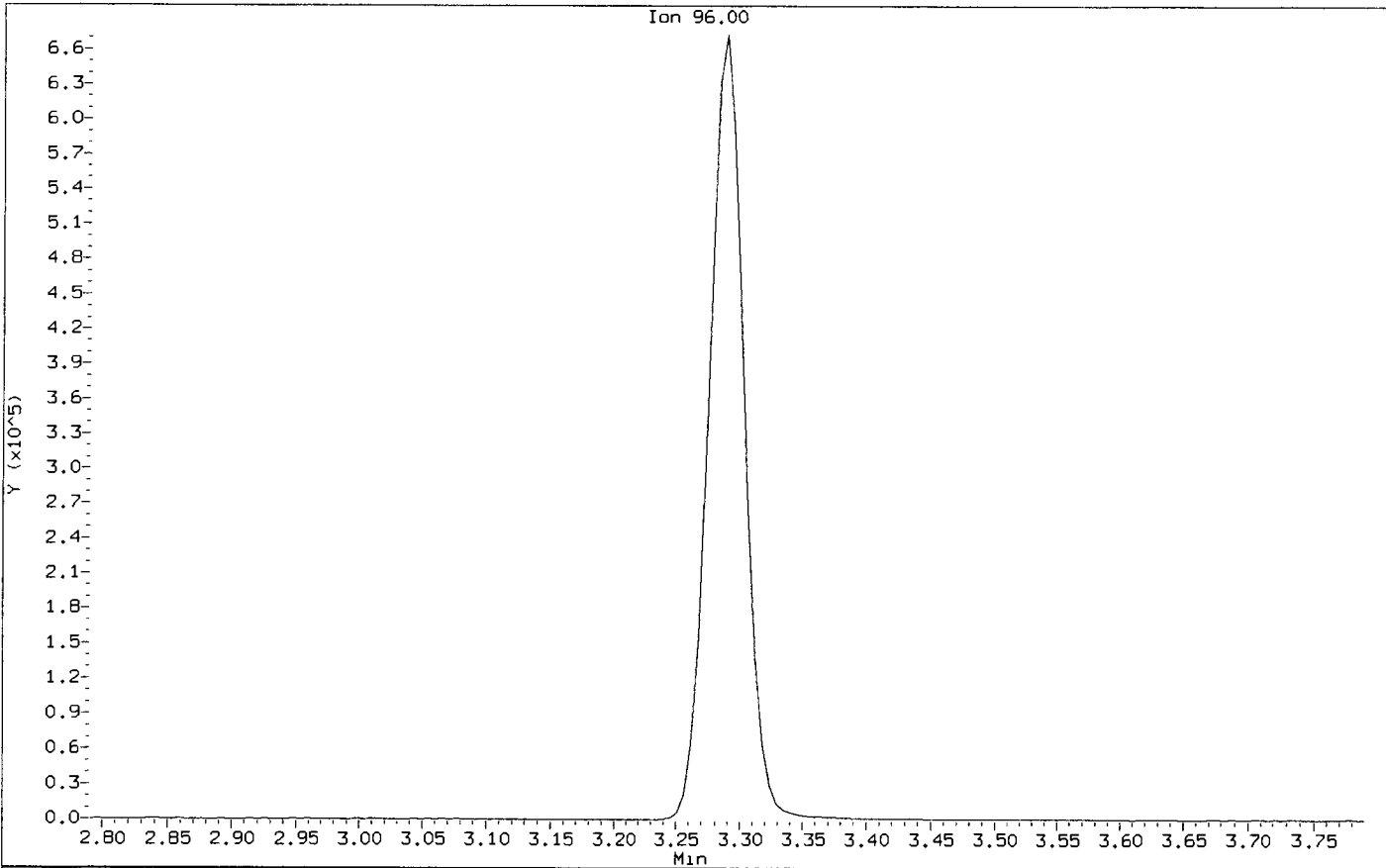
5. Other _____

Analyst: MH

Date: 5/4/11

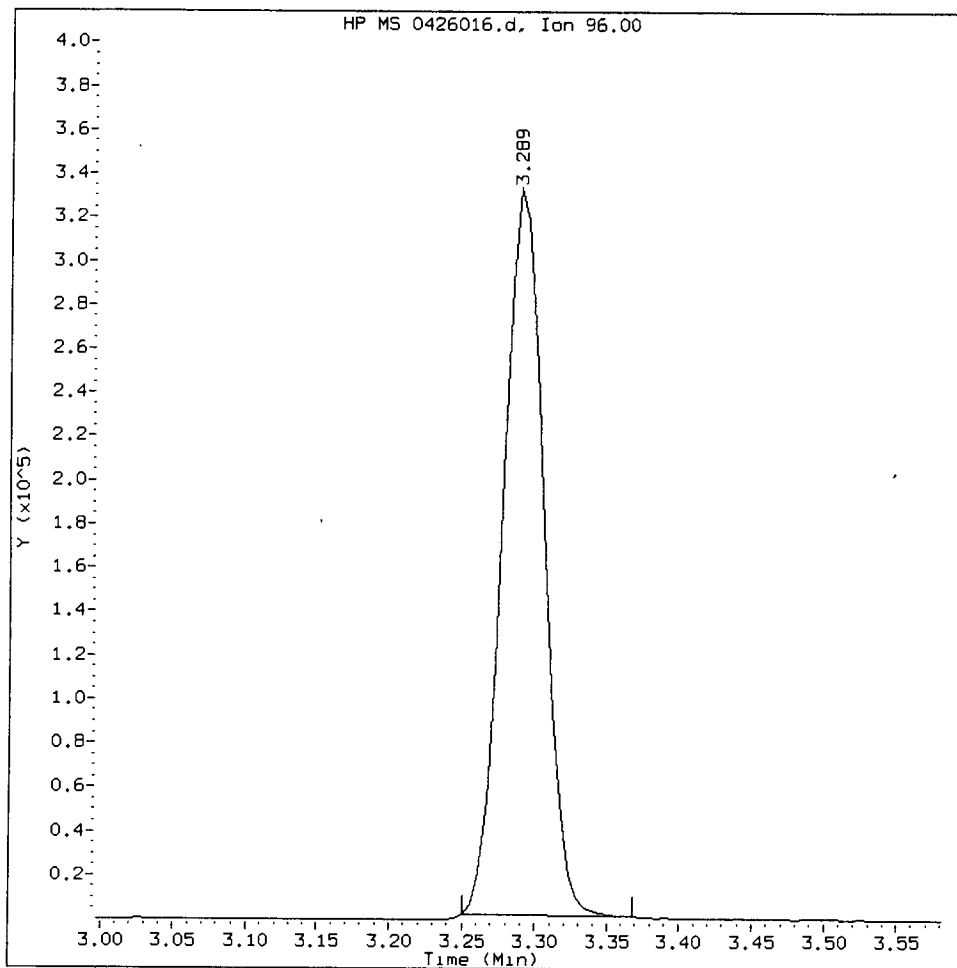
Data File: /chem1/nt7.1/26APR2011.b/0426017.d
Injection Date: 26-APR-2011 14:03
Instrument: nt7.1
Client Sample ID: 4000

Compound: Trans-1,2-Dichloroethene
CAS Number:



20000426, /chem1/nt7.i/26APR2011.b/0426016.d

Trans-1,2-Dichloroethene Amount: 1686.96 Area: 645317



MANUAL INTEGRATION for Trans-1,2-Dichloroethene

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

5. Other _____

Analyst: MH

Date: 5/4/11

Data File: /chem1/nt7.1/26APR2011.b/0426016.d

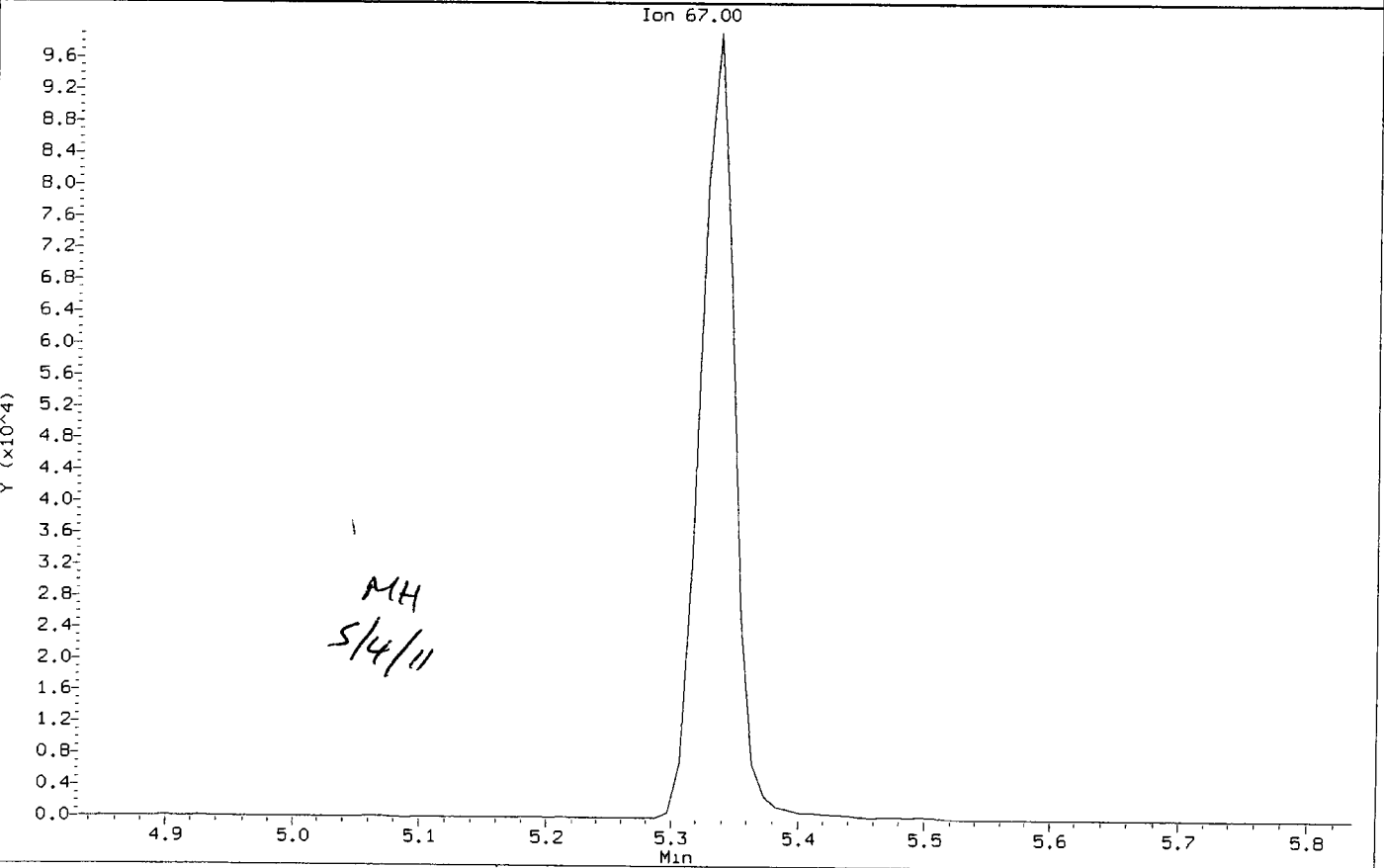
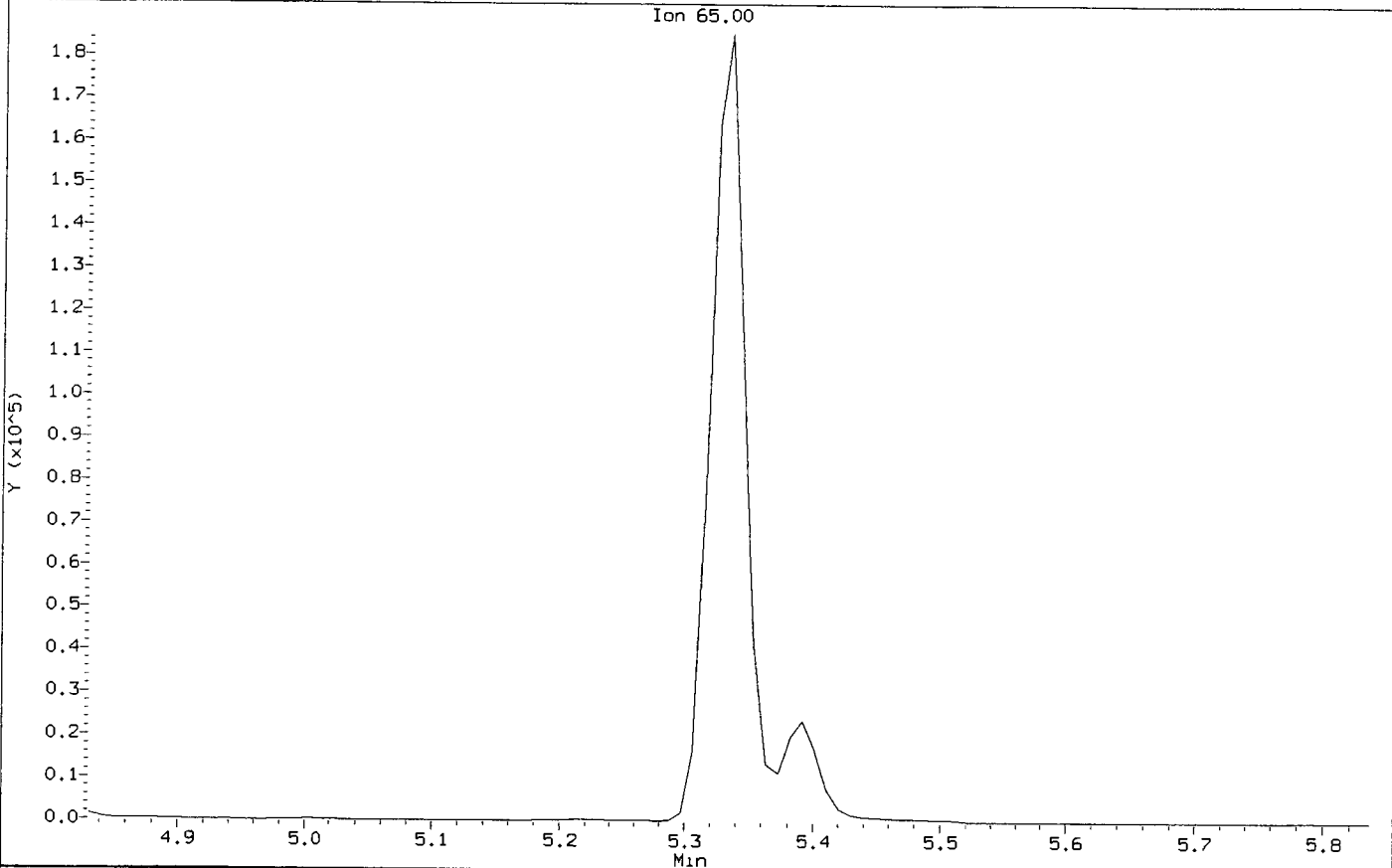
Injection Date: 26-APR-2011 13:37

Instrument: nt7.1

Client Sample ID: 2000

Compound: d4-1,2-Dichloroethane

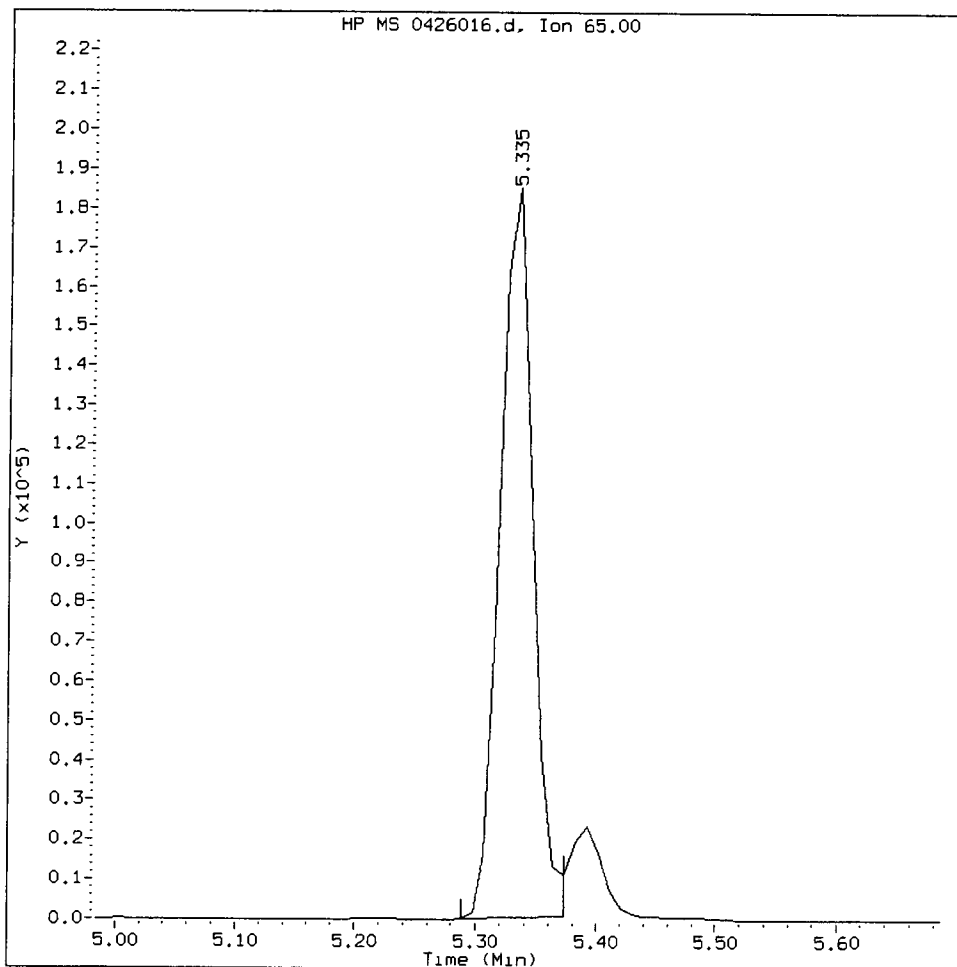
CAS Number:



SU53 : 00359

20000426, /chem1/nt7.i/26APR2011.b/0426016.d

d4-1,2-Dichloroethane Amount: 964.28 Area: 373663



MANUAL INTEGRATION for d4-1,2-Dichloroethane

1. Baseline correction
2. Poor chromatography
- ~~3~~ Peak not found
4. Totals calculation

5. Other _____

Analyst: MH

Date: 5/4/11

CO-ELUTION SUMMARY FOR FILE - 0426016.d

Lab ID: 20000426, Method: sim042611.m, Instrument: nt7.i, Date: 26-APR-2011

RT CO-ELUTION COMPOUNDS

MH
5/4/11

Data File: /chem1/nt7.i/26APR2011.b/0426017.d
Report Date: 04-May-2011 09:21

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/26APR2011.b/0426017.d
Lab Smp Id: 40000426 Client Smp ID: 4000
Inj Date : 26-APR-2011 14:03
Operator : MH Inst ID: nt7.i
Smp Info : 40000426,10,10,0,
Misc Info : 11-
Comment :
Method : /chem1/nt7.i/26APR2011.b/sim042611.m
Meth Date : 04-May-2011 06:35 monicah Quant Type: ISTD
Cal Date : 26-APR-2011 14:03 Cal File: 0426017.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/L)	ON-COL (ng/L)
=====	====	==	=====	=====	=====	=====	=====
1 Vinyl Chloride	62	1.553	1.554	(0.292)	1642377	4000.00	3261.9
2 1,1-Dichloroethene	96	2.511	2.510	(0.472)	1252775	4000.00	3127.2
175 Trans-1,2-Dichloroethene	96	3.290	3.289	(0.618)	1306300	4000.00	3209.6 (M)
3 cis-1,2-dichloroethene	96	4.440	4.444	(0.834)	1473521	4000.00	3391.3 (M)
6 Benzene	78	5.210	5.212	(0.905)	5754348	4000.00	2963.1 (M)
* 4 Pentafluorobenzene	168	5.324	5.326	(1.000)	457509	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.334	5.335	(1.002)	387566	1000.00	940.04 (M)
176 1,2-Dichloroethane	62	5.390	5.392	(1.012)	2169305	4000.00	3329.1
8 Trichloroethene	130	5.721	5.720	(0.994)	1097065	4000.00	3298.6 (M)
* 7 1,4-Difluorobenzene	114	5.755	5.754	(1.000)	848269	1000.00	
\$ 9 d8-Toluene	98	6.913	6.914	(1.201)	1098285	1000.00	1016.3
10 Tetrachloroethene	166	7.270	7.271	(1.263)	845233	4000.00	3293.5
11 1,1,2,2-Tetrachloroethane	83	9.457	9.458	(1.643)	1090025	4000.00	3547.8

QC Flag Legend

M - Compound response manually integrated.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 0426017.d
 Lab Smp Id: 40000426
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: MH
 Method File: /chem1/nt7.i/26APR2011.b/sim042611.m
 Misc Info: 11-

Calibration Date: 26-APR-2011
 Calibration Time: 12:47
 Client Smp ID: 4000
 Level: LOW
 Sample Type: WATER

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	363407	181704	726814	457509	25.89
7 1,4-Difluorobenze	667797	333898	1335594	848269	27.02

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.33	4.83	5.83	5.32	-0.03
7 1,4-Difluorobenze	5.75	5.25	6.25	5.76	0.02

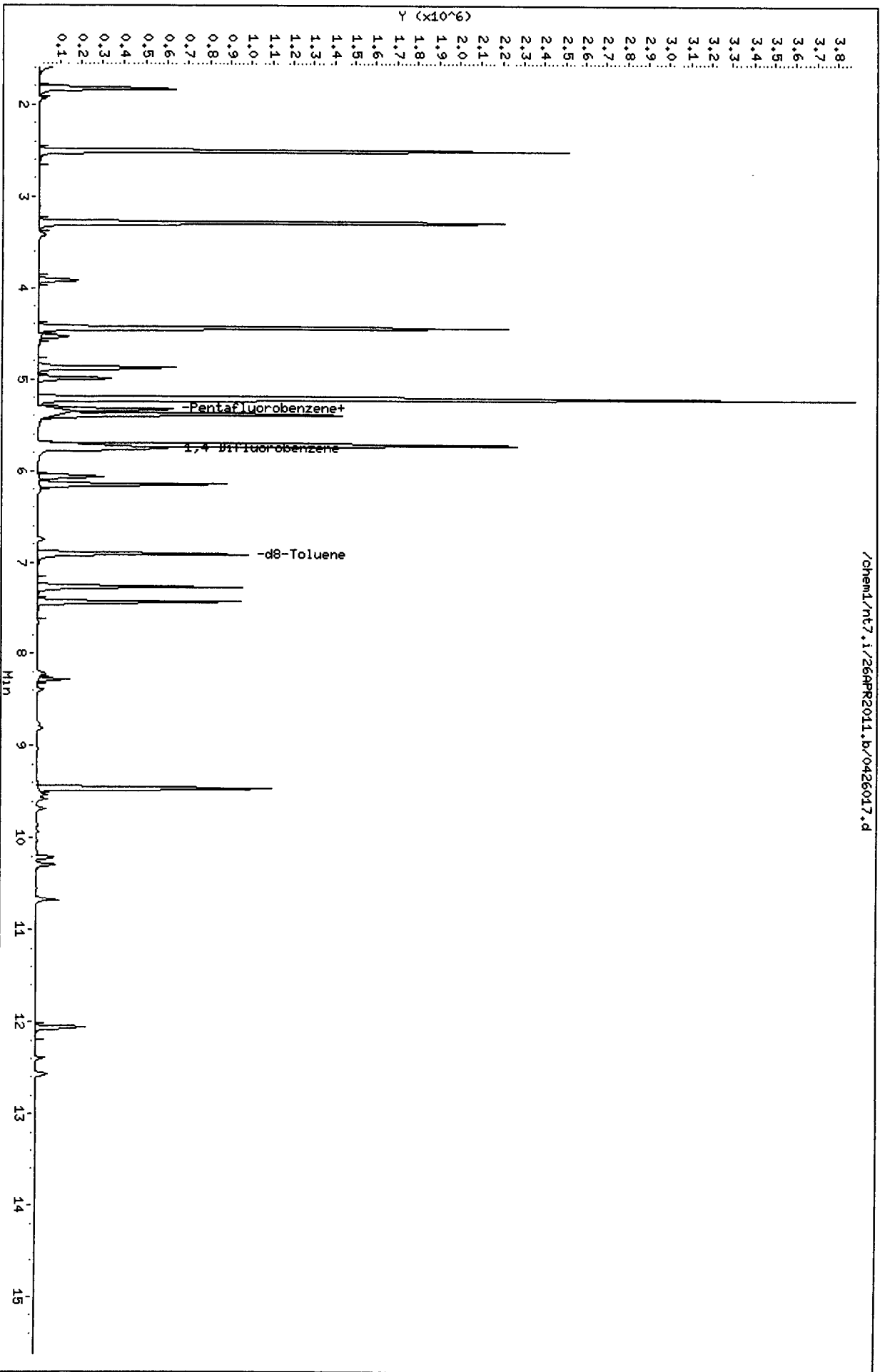
AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = - 50% of internal standard area.
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem1/nt7.i/26APR2011.b/0426017.d
Date : 26-APR-2011 14:03
Client ID: 4000
Sample Info: 40000426,10,10,0,

Column phase: RTXVMS

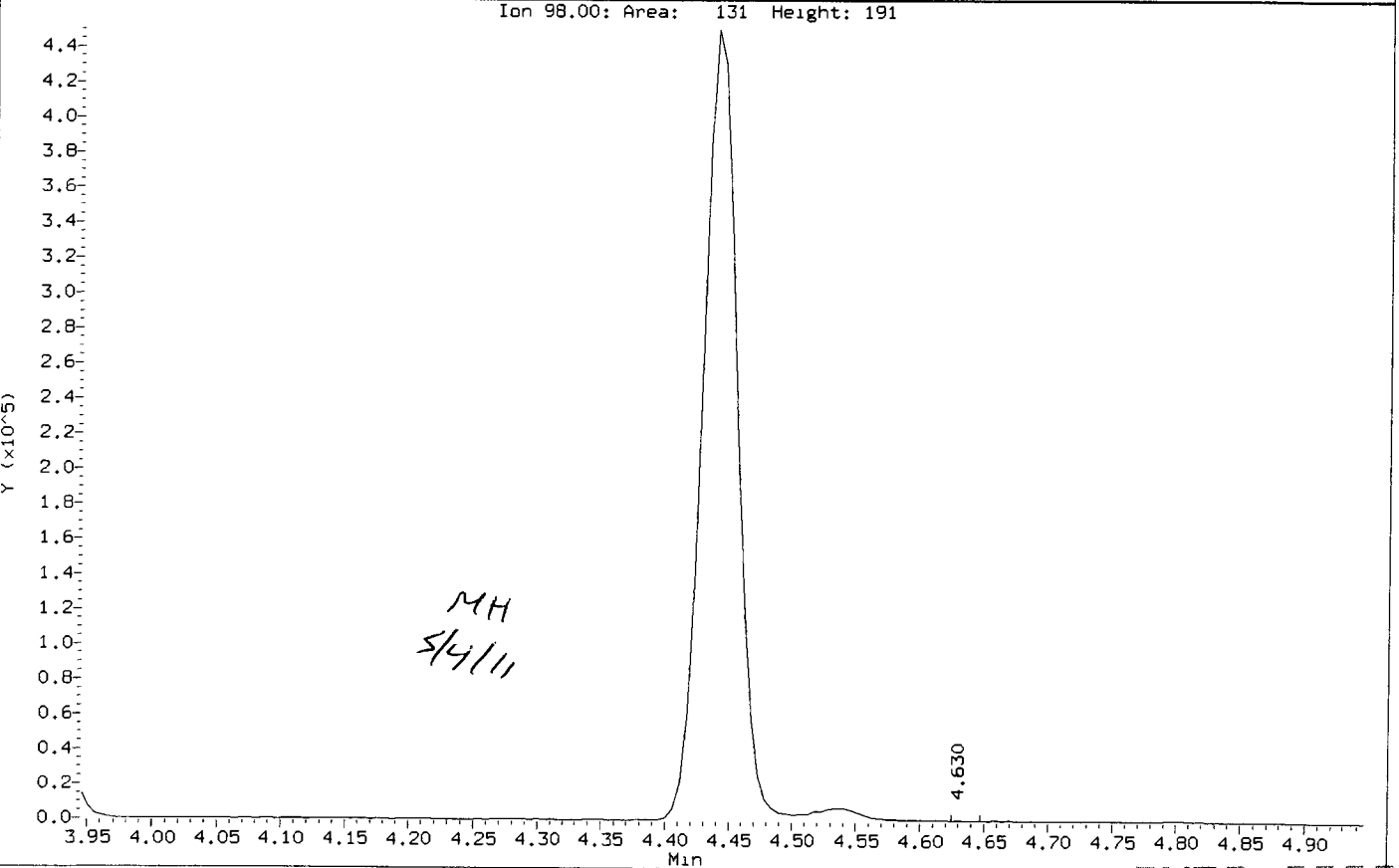
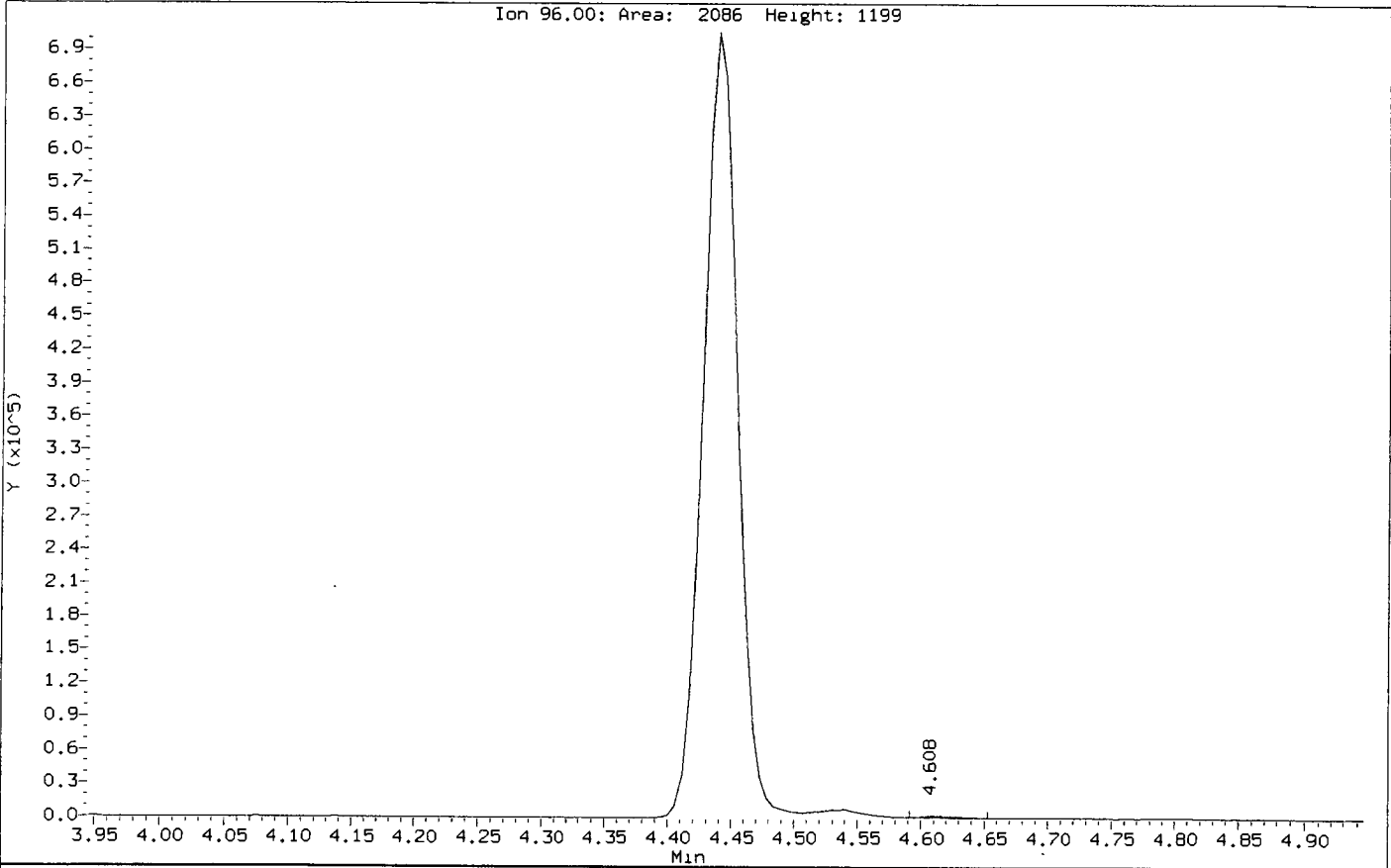
Instrument: nt7.1
Operator: HH
Column diameter: 0.18

/chem1/nt7.i/26APR2011.b/0426017.d



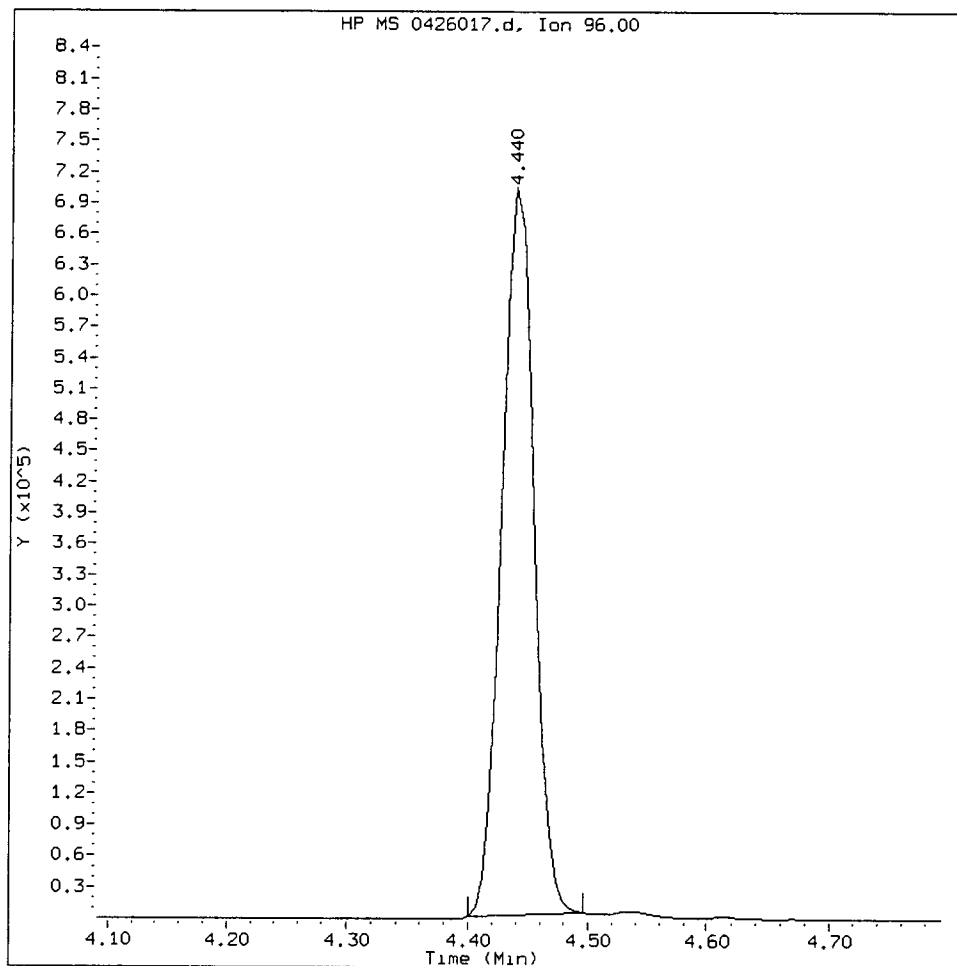
Data File: /chem1/nt7.1/26APR2011.b/0426017.d
Injection Date: 26-APR-2011 14:03
Instrument: nt7.1
Client Sample ID: 4000

Compound: cis-1,2-dichloroethene
CAS Number:



40000426, /chem1/nt7.i/26APR2011.b/0426017.d

cis-1,2-dichloroethene Amount: 3391.25 Area: 1473521



MANUAL INTEGRATION for cis-1,2-dichloroethene

1. Baseline correction
2. Poor chromatography
- ~~3. Peak not found~~
4. Totals calculation

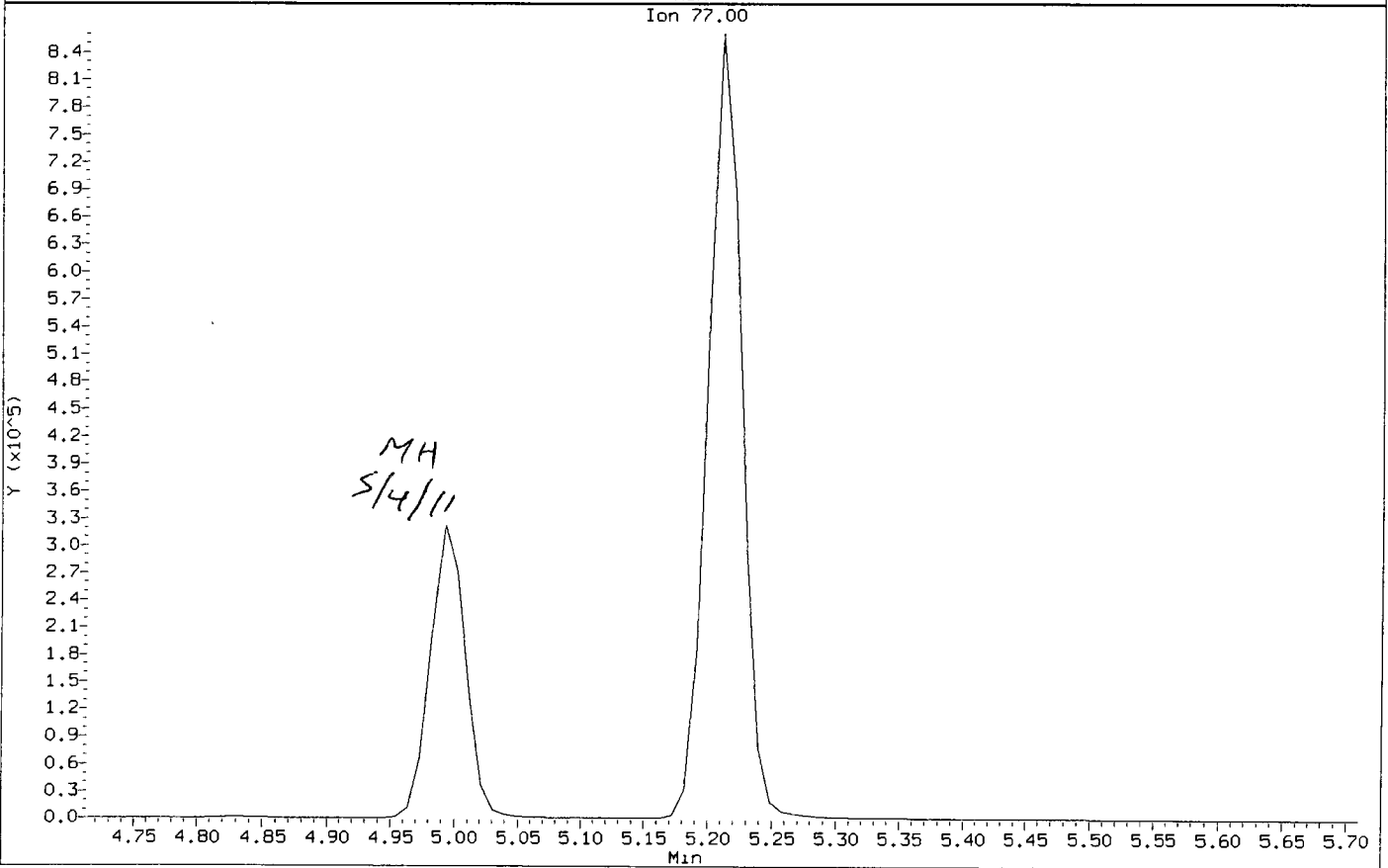
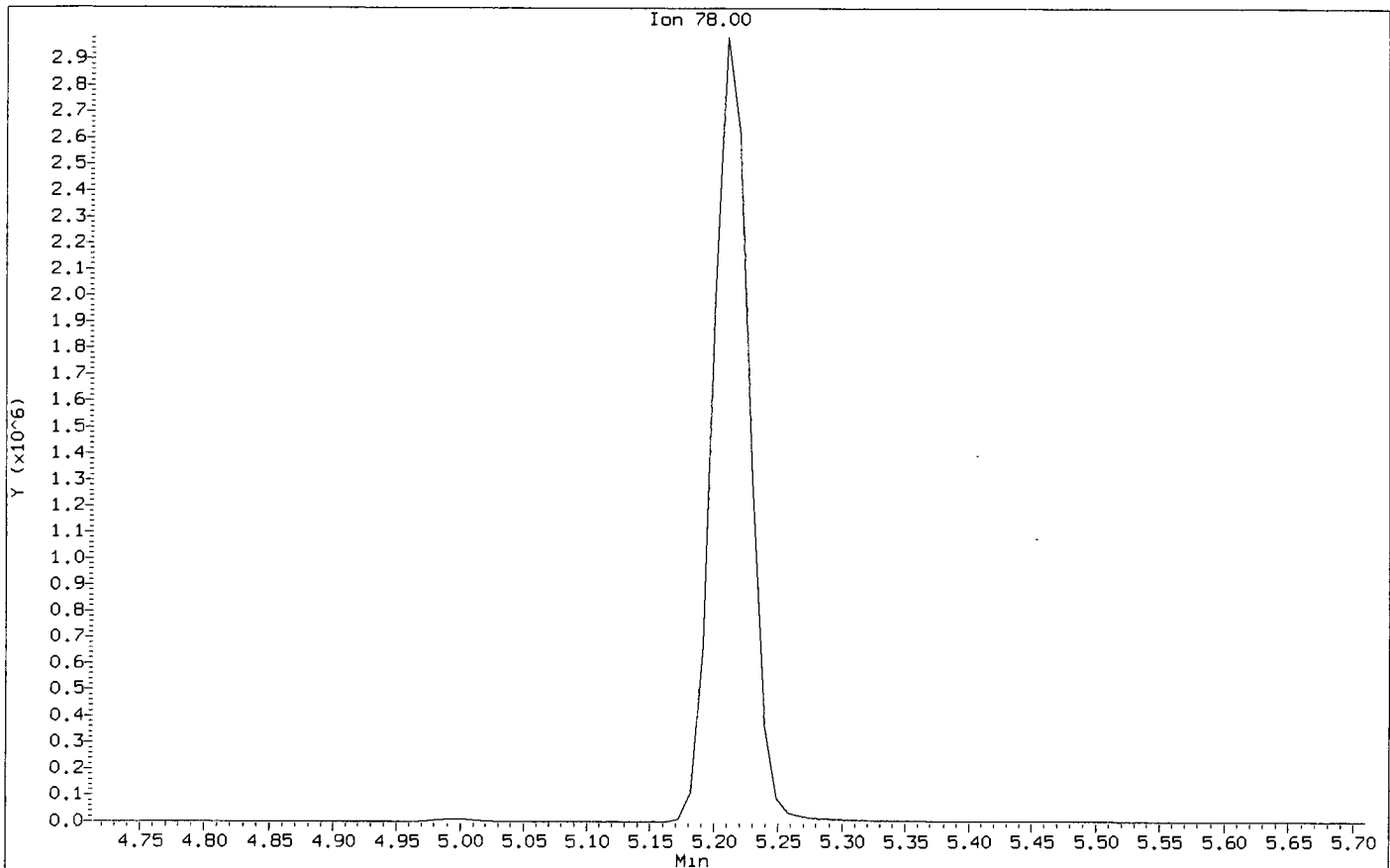
5. Other _____

Analyst: MH

Date: 5/4/11

Data File: /chem1/nt7.1/26APR2011.b/0426017.d
Injection Date: 26-APR-2011 14:03
Instrument: nt7.1
Client Sample ID: 4000

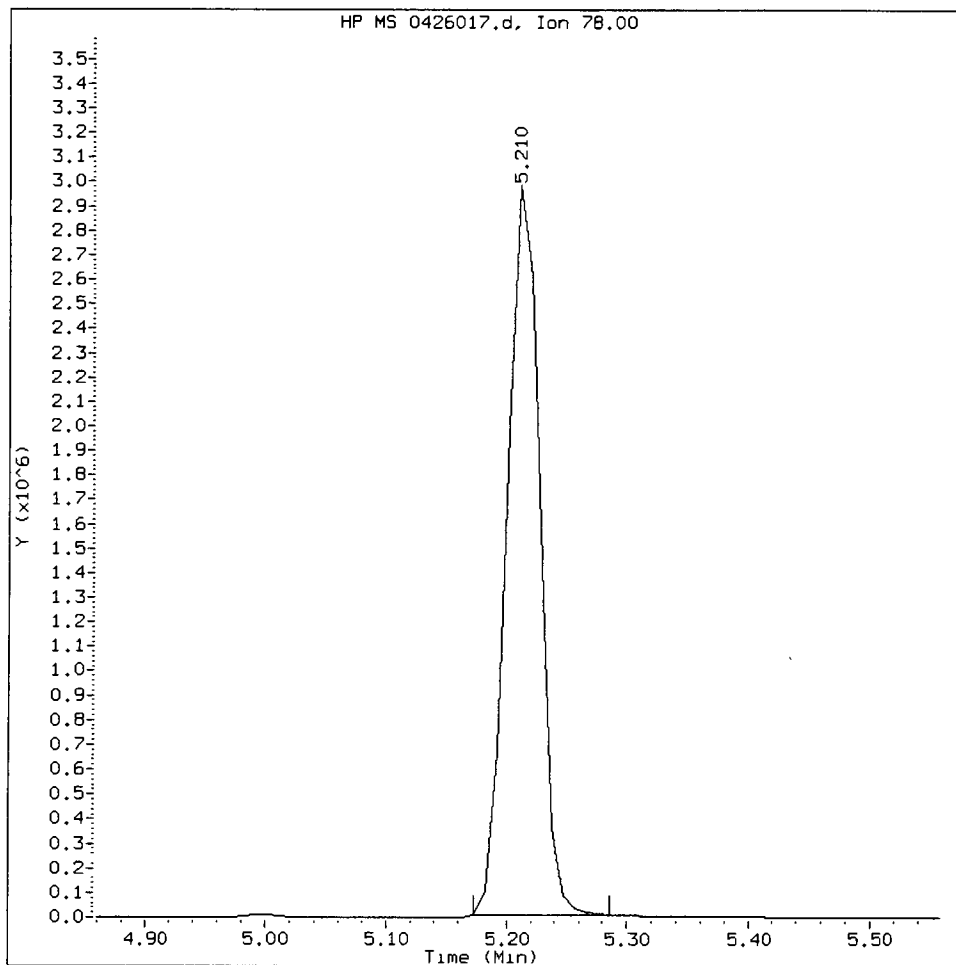
Compound: Benzene
CAS Number:



SU53 : 00368

40000426, /chem1/nt7.i/26APR2011.b/0426017.d

Benzene Amount: 2963.06 Area: 5754348



MANUAL INTEGRATION for Benzene

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

5. Other _____

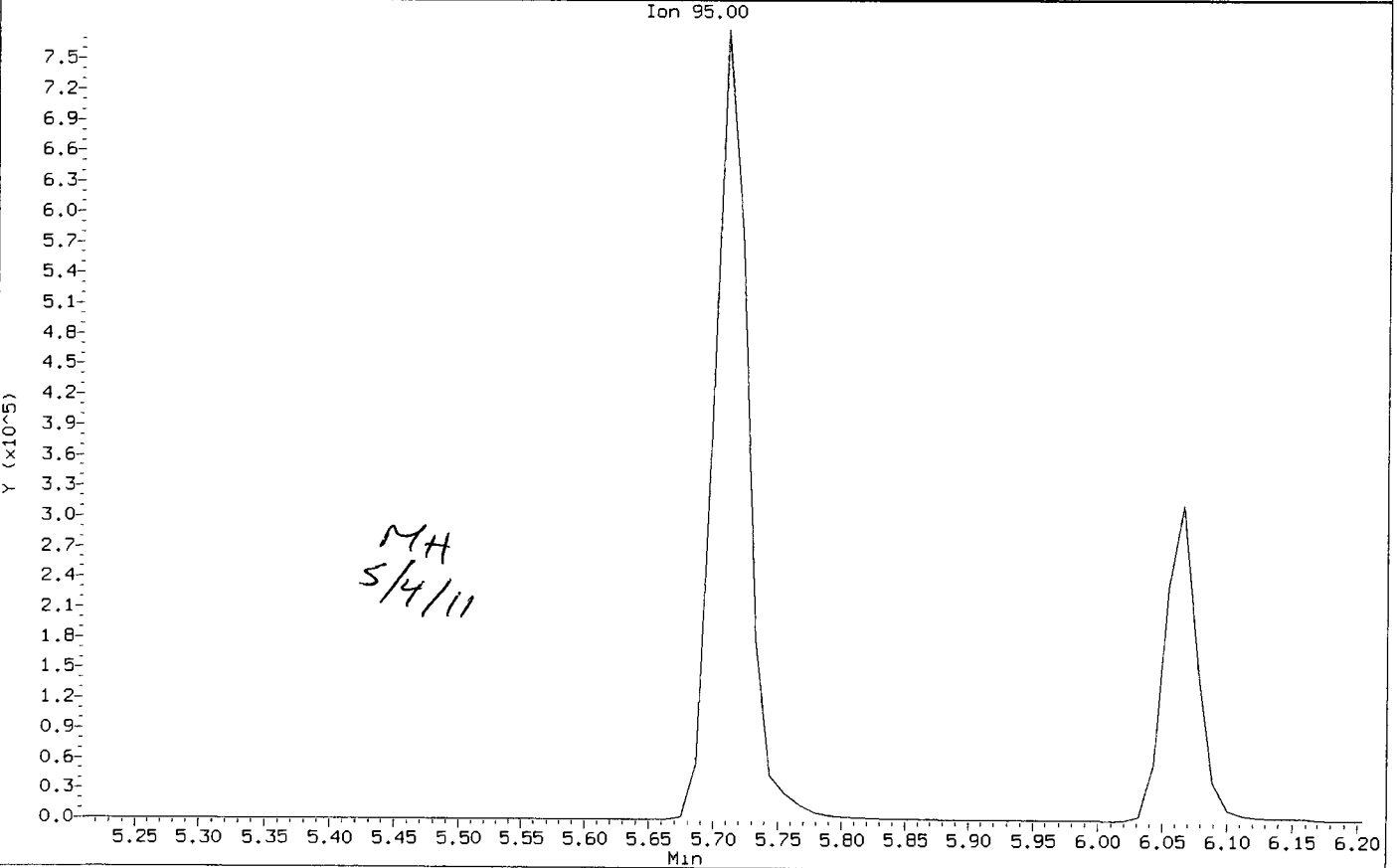
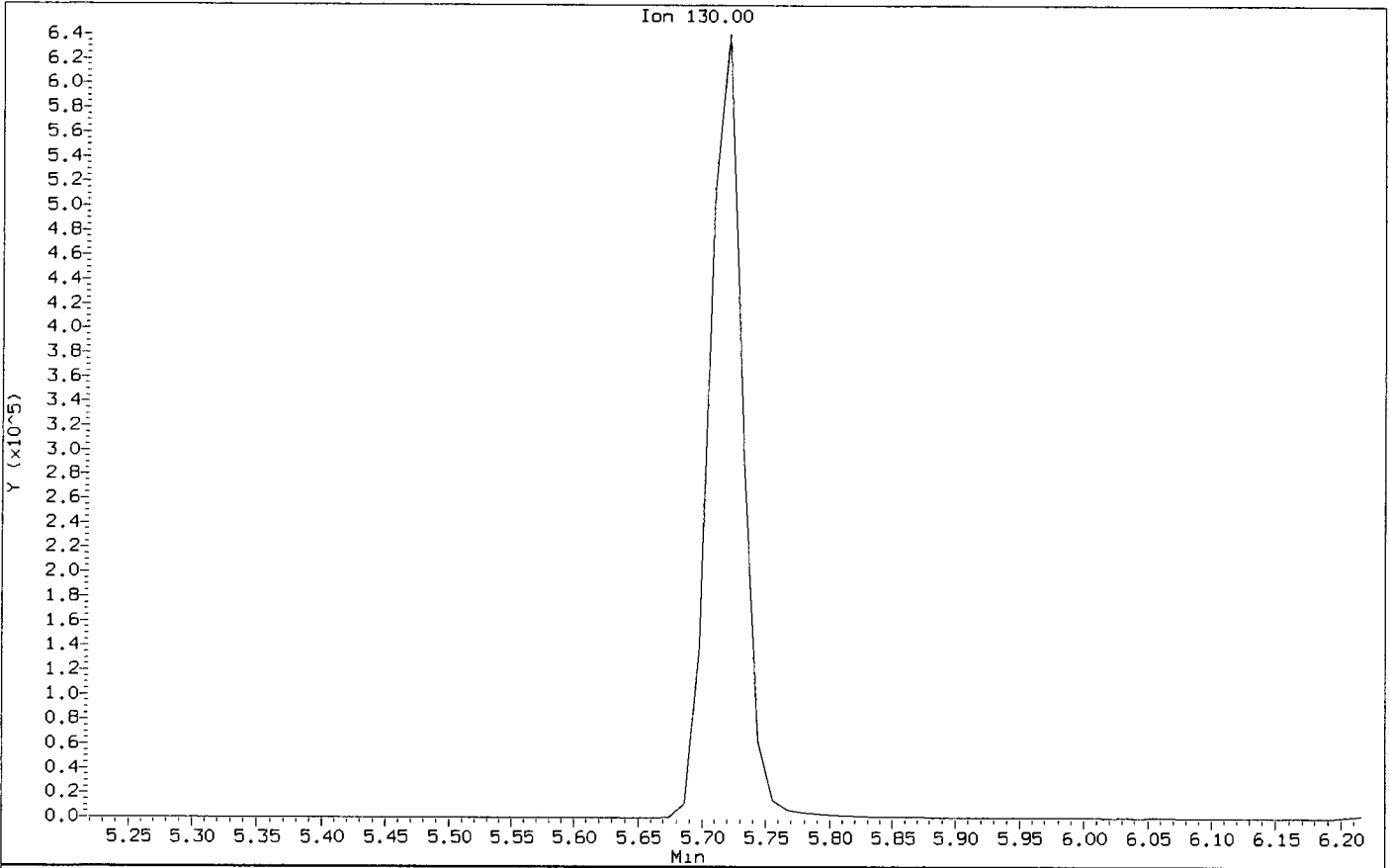
Analyst: MH

Date: 5/4/11

SU53 : 00369

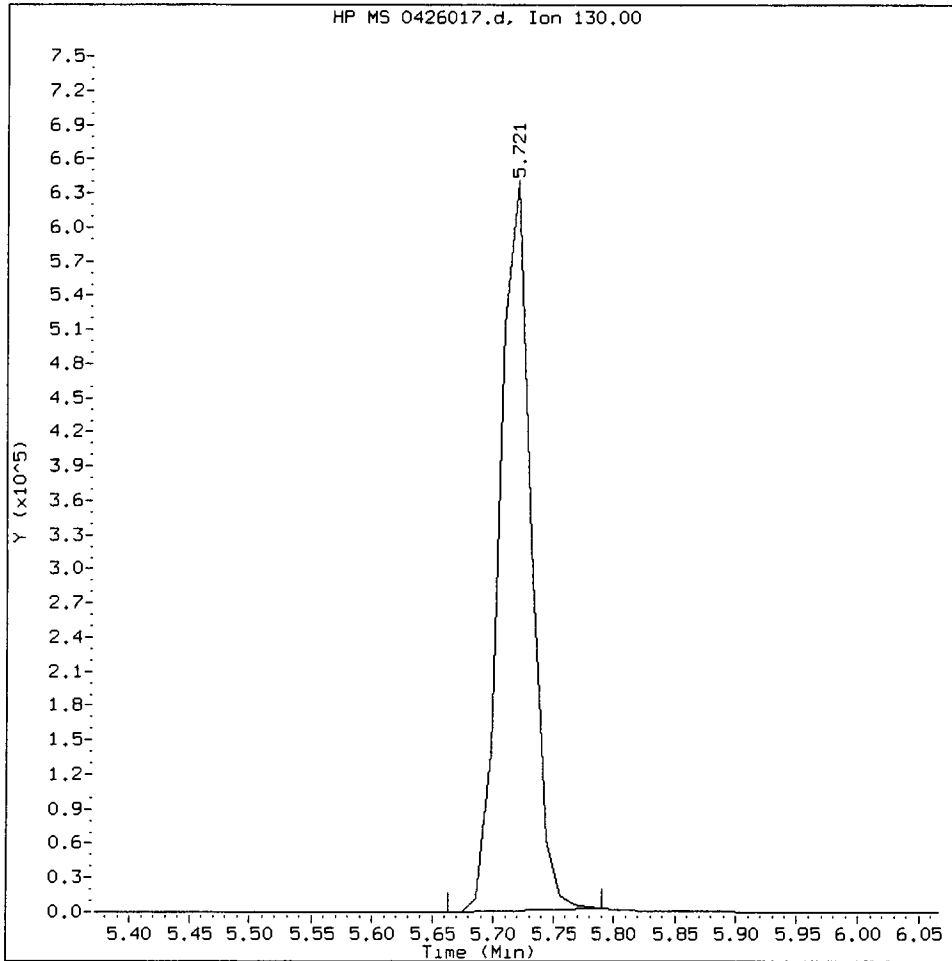
Data File: /chem1/nt7.1/26APR2011.b/0426017.d
Injection Date: 26-APR-2011 14:03
Instrument: nt7.1
Client Sample ID: 4000

Compound: Trichloroethene
CAS Number:



40000426, /chem1/nt7.i/26APR2011.b/0426017.d

Trichloroethene Amount: 3298.64 Area: 1097065



MANUAL INTEGRATION for Trichloroethene

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

5. Other _____

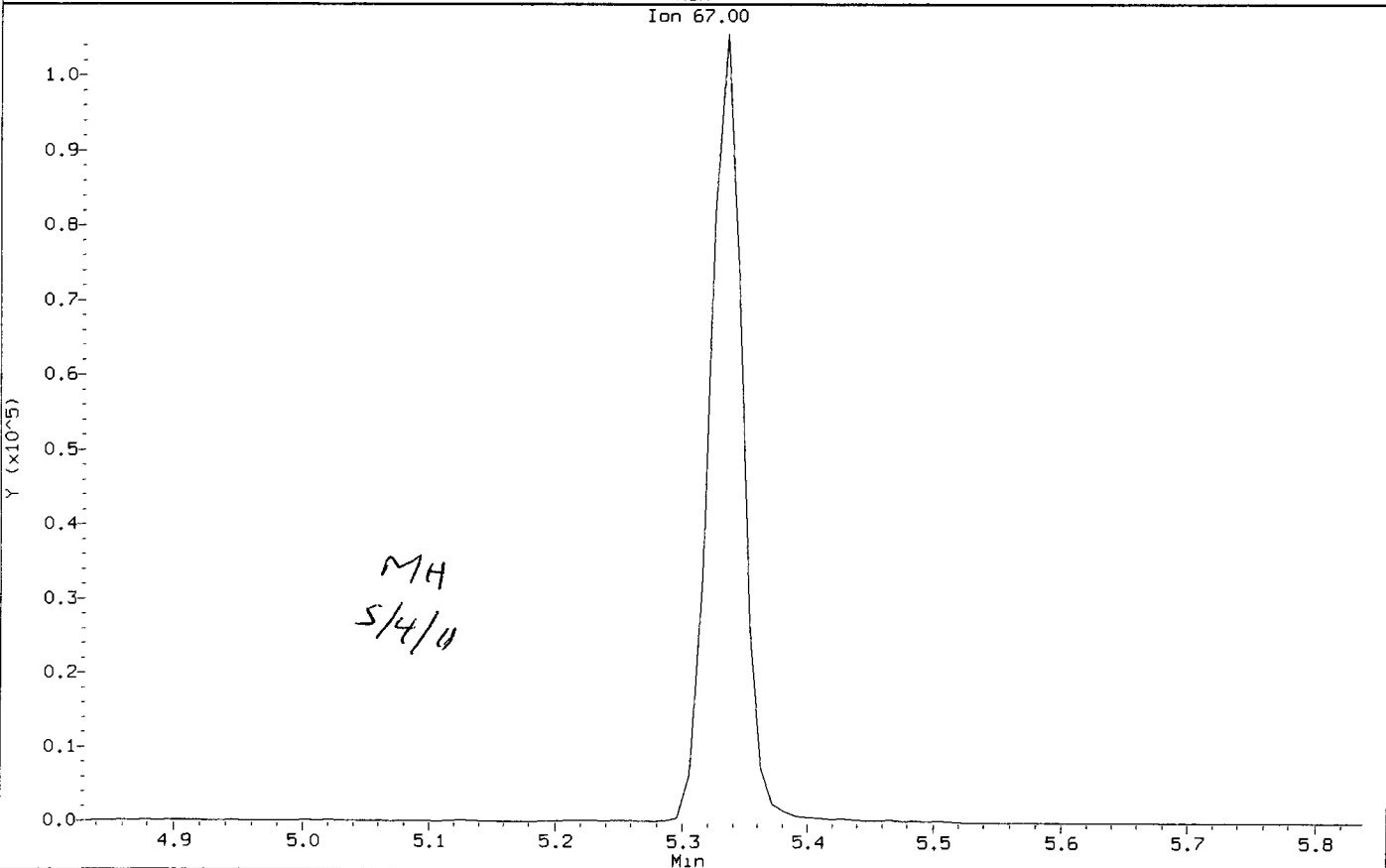
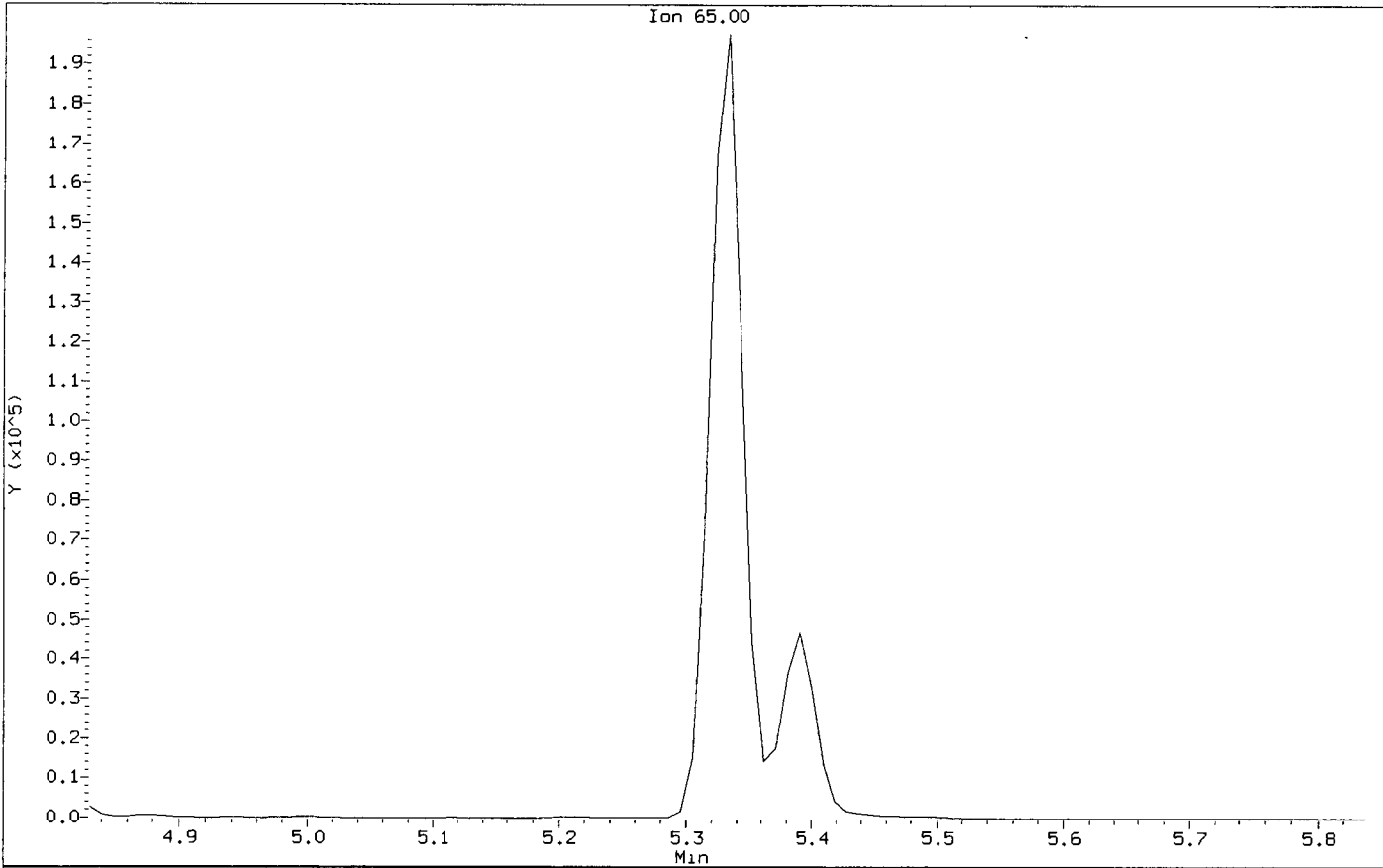
Analyst: MH

Date: 5/4/11

SU53:00371

Data File: /chem1/nt7.1/26APR2011.b/0426017.d
Injection Date: 26-APR-2011 14:03
Instrument: nt7.1
Client Sample ID: 4000

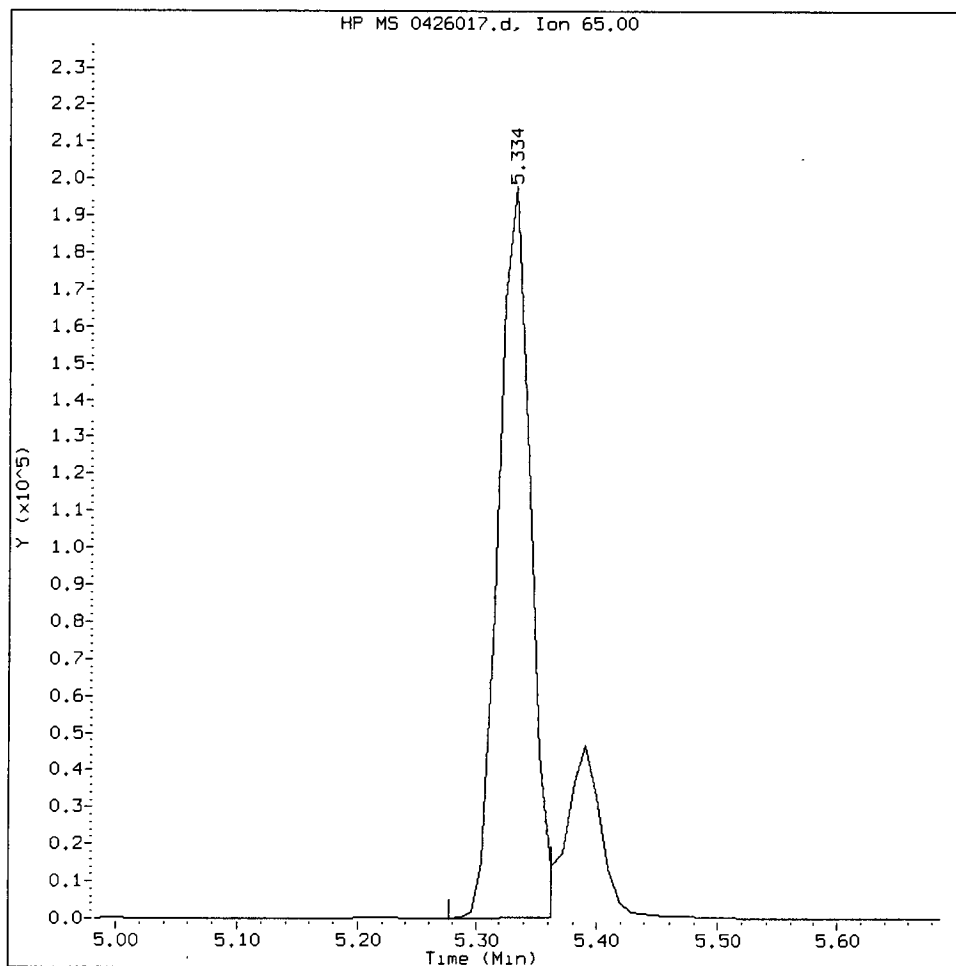
Compound: d4-1,2-Dichloroethane
CAS Number:



SU53 : 00372

40000426, /chem1/nt7.i/26APR2011.b/0426017.d

d4-1,2-Dichloroethane Amount: 940.04 Area: 387566



MANUAL INTEGRATION for d4-1,2-Dichloroethane

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

5. Other _____

Analyst: MH

Date: 5/4/11

CO-ELUTION SUMMARY FOR FILE - 0426017.d

Lab ID: 40000426, Method: sim042611.m, Instrument: nt7.i, Date: 26-APR-2011

RT CO-ELUTION COMPOUNDS

SU53 : 00374

MH
5/4/11

Data File: /chem1/nt7.i/26APR2011.b/0426019.d
Report Date: 04-May-2011 09:21

Page 1

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/26APR2011.b/0426019.d
Lab Smp Id: 00200426 Client Smp ID: 20
Inj Date : 26-APR-2011 15:00
Operator : MH Inst ID: nt7.i
Smp Info : 00200426,10,10,0,
Misc Info : 11-
Comment :
Method : /chem1/nt7.i/26APR2011.b/sim042611.m
Meth Date : 04-May-2011 06:35 monicah Quant Type: ISTD
Cal Date : 26-APR-2011 15:00 Cal File: 0426019.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ng/L)	ON-COL (ng/L)
=====	====	==	=====	=====	=====	=====	=====
1 Vinyl Chloride	62	1.551	1.554	(0.291)	8384	20.0000	19.473
2 1,1-Dichloroethene	96	2.509	2.510	(0.471)	6588	20.0000	19.232
175 Trans-1,2-Dichloroethene	96	3.289	3.289	(0.618)	7399	20.0000	21.260
3 cis-1,2-dichloroethene	96	4.444	4.444	(0.835)	5866	20.0000	15.788
6 Benzene	78	5.220	5.212	(0.907)	39535	20.0000	23.266
* 4 Pentafluorobenzene	168	5.325	5.326	(1.000)	391217	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.334	5.335	(1.002)	341930	1000.00	969.89
176 1,2-Dichloroethane	62	5.391	5.392	(1.012)	10156	20.0000	18.227
8 Trichloroethene	130	5.721	5.720	(0.994)	5927	20.0000	20.367
* 7 1,4-Difluorobenzene	114	5.756	5.754	(1.000)	742226	1000.00	
\$ 9 d8-Toluene	98	6.914	6.914	(1.201)	918839	1000.00	971.77
10 Tetrachloroethene	166	7.282	7.271	(1.265)	4108	20.0000	18.294
11 1,1,2,2-Tetrachloroethane	83	9.480	9.458	(1.647)	4734	20.0000	17.610

SU53:00375

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt7.i
Lab File ID: 0426019.d
Lab Smp Id: 00200426
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem1/nt7.i/26APR2011.b/sim042611.m
Misc Info: 11-

Calibration Date: 26-APR-2011
Calibration Time: 12:47
Client Smp ID: 20
Level: LOW
Sample Type: WATER

Test Mode:
Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	363407	181704	726814	391217	7.65
7 1,4-Difluorobenze	667797	333898	1335594	742226	11.15

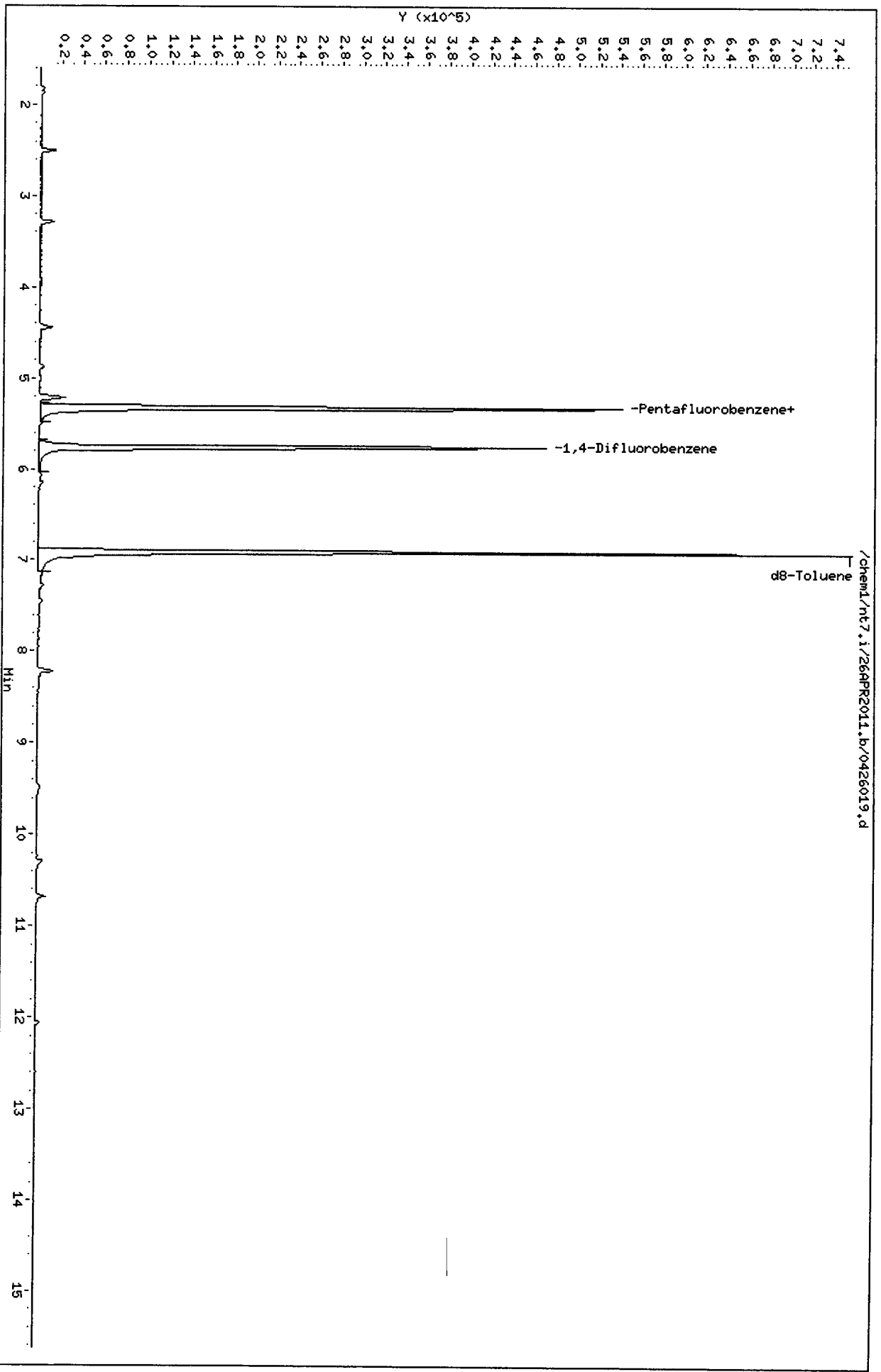
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.33	4.83	5.83	5.32	-0.02
7 1,4-Difluorobenze	5.75	5.25	6.25	5.76	0.02

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

Data File: /chem1/nt7.1/26APR2011.b/0426019.d
Date : 26-APR-2011 15:00
Client ID: 20
Sample Info: 00200426,10,10,0,

Column phase: RTXVHS

Instrument: nt7.i
Operator: HH
Column diameter: 0.18



CO-ELUTION SUMMARY FOR FILE - 0426019.d

Lab ID: 00200426, Method: sim042611.m, Instrument: nt7.i, Date: 26-APR-2011

RT CO-ELUTION COMPOUNDS

MH
5/4/11

Analytical Resources, Inc.

SW8260C SIM

Data file : /chem1/nt7.i/26APR2011.b/0426018.d
Lab Smp Id: ICV0426 Client Smp ID: ICV
Inj Date : 26-APR-2011 14:29
Operator : MH Inst ID: nt7.i
Smp Info : ICV0426,10,10,0,
Misc Info : 11-
Comment :
Method : /chem1/nt7.i/26APR2011.b/sim042611.m
Meth Date : 04-May-2011 06:35 monicah Quant Type: ISTD
Cal Date : 26-APR-2011 14:03 Cal File: 0426017.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sim12dca.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Pv / Sa * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Pv	10.00000	Purge Volume (mL)
Sa	10.00000	Sample Amount (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng/L)	FINAL (ug/L)
1 Vinyl Chloride	62	1.551	1.554	(0.291)	525106	1114.07	1114.1
2 1,1-Dichloroethene	96	2.509	2.510	(0.471)	363363	968.909	968.91
175 Trans-1,2-Dichloroethene	96	3.289	3.289	(0.618)	320050	840.024	840.02
3 cis-1,2-dichloroethene	96	4.438	4.444	(0.833)	360970	887.441	887.44
6 Benzene	78	5.212	5.212	(0.906)	1595599	889.161	889.16
* 4 Pentafluorobenzene	168	5.325	5.326	(1.000)	428287	1000.00	
\$ 5 d4-1,2-Dichloroethane	65	5.335	5.335	(1.002)	321187	832.193	832.19
176 1,2-Dichloroethane	62	5.392	5.392	(1.012)	556573	912.403	912.40
8 Trichloroethene	130	5.720	5.720	(0.994)	297091	966.728	966.73 (Q)
* 7 1,4-Difluorobenzene	114	5.755	5.754	(1.000)	783828	1000.00	
\$ 9 d8-Toluene	98	6.914	6.914	(1.202)	1002333	1003.81	1003.8
10 Tetrachloroethene	166	7.271	7.271	(1.264)	214228	903.381	903.38
11 1,1,2,2-Tetrachloroethane	83	9.458	9.458	(1.644)	265381	934.775	934.77

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Analytical Resources, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt7.i
 Lab File ID: 0426018.d
 Lab Smp Id: ICV0426
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: MH
 Method File: /chem1/nt7.i/26APR2011.b/sim042611.m
 Misc Info: 11-

Calibration Date: 26-APR-2011
 Calibration Time: 12:47
 Client Smp ID: ICV
 Level: LOW
 Sample Type: WATER

Test Mode:
 Use Initial Calibration Level 5.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	363407	181704	726814	428287	17.85
7 1,4-Difluorobenze	667797	333898	1335594	783828	17.38

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Pentafluorobenzen	5.33	4.83	5.83	5.33	-0.01
7 1,4-Difluorobenze	5.75	5.25	6.25	5.75	0.00

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

Analytical Resources, Inc.

RECOVERY REPORT

Client Name: Client SDG: 26APR2011
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: ICV0426 Client Smp ID: ICV
 Level: LOW Operator: MH
 Data Type: MS DATA SampleType: LCS
 SpikeList File: special.spk Quant Type: ISTD
 Sublist File: sim12dca.sub
 Method File: /chem1/nt7.i/26APR2011.b/sim042611.m
 Misc Info: 11-

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Vinyl Chloride	1000.0	1114.1	111.41	76-120
176 1,2-Dichloroethane	1000.0	912.40	91.24	80-128
175 Trans-1,2-Dichloro	1000.0	840.02	84.00	80-120
2 1,1-Dichloroethene	1000.0	968.91	96.89	80-120
3 cis-1,2-dichloroet	1000.0	887.44	88.74	80-120
6 Benzene	1000.0	889.16	88.92	80-120
8 Trichloroethene	1000.0	966.73	96.67	80-120
10 Tetrachloroethene	1000.0	903.38	90.34	80-122
11 1,1,2,2-Tetrachlor	1000.0	934.77	93.48	80-128

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 5 d4-1,2-Dichloroeth	1000.0	832.19	83.22	80-126
\$ 9 d8-Toluene	1000.0	1003.8	100.38	80-120