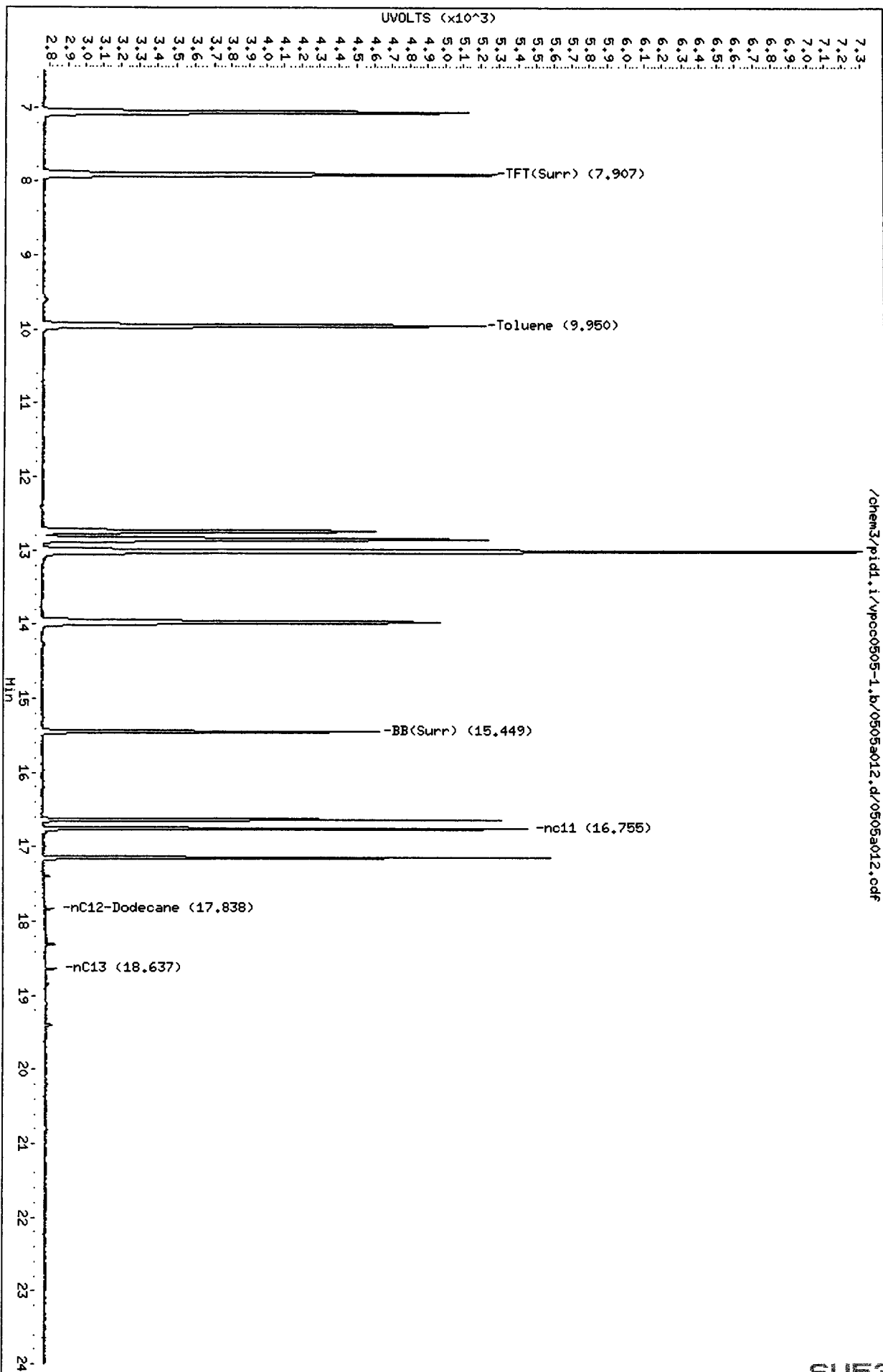


Data File: /chem3/pid1.i/vpcc0505-1.b/0505a012.d  
Date: 05-MAY-2011 15:33  
Client ID:  
Sample Info: BETX ICV

Column phase: RTX 502-2 FID

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



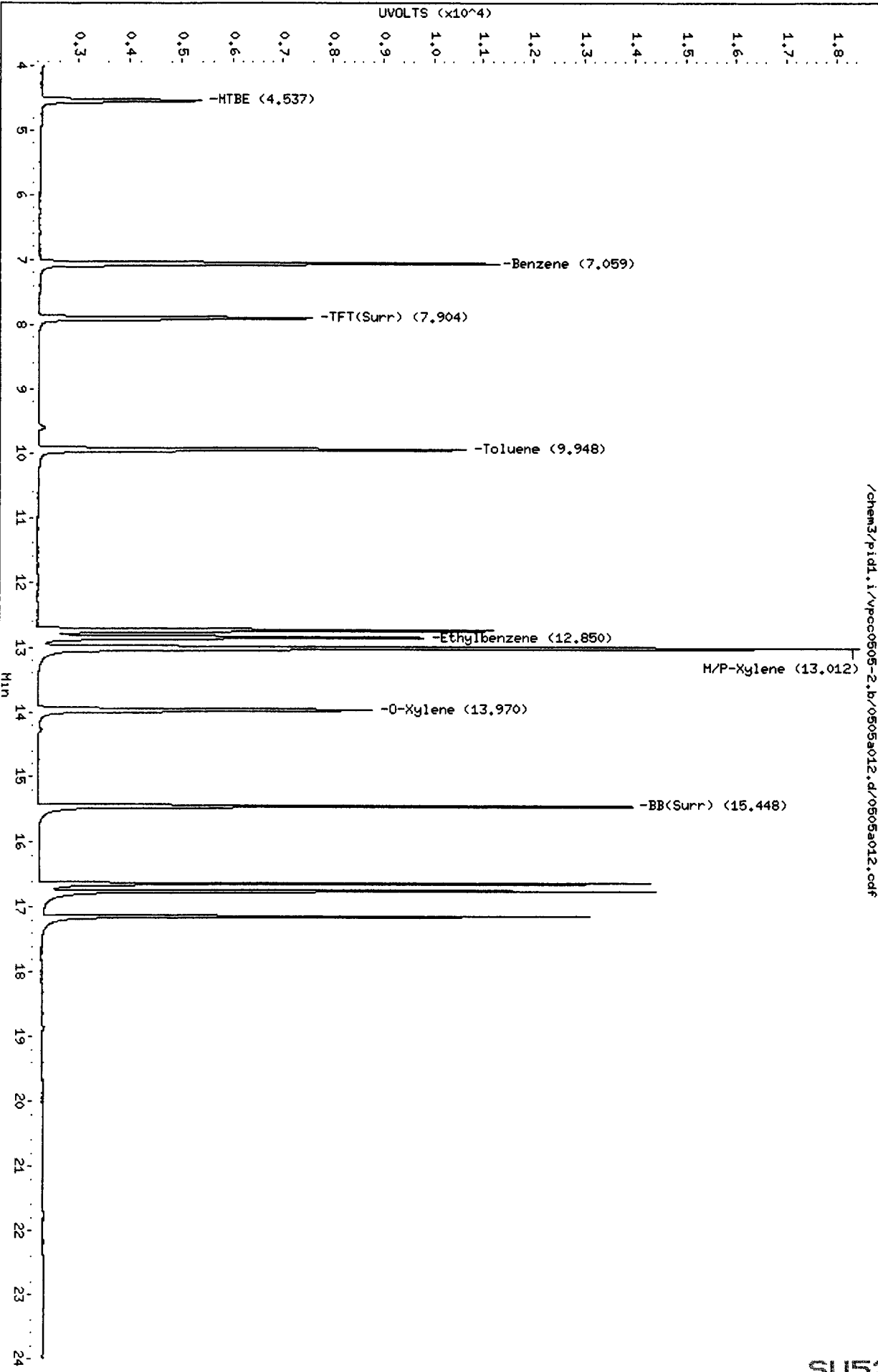
Data File: /chem3/pid1.i/vpcc0505-2.b/0505a012.d  
Date: 05-MAY-2011 15:33  
Client ID:  
Sample Info: BETX ICV

Column phase: RTX 502-2 PID

/chem3/pid1.i/vpcc0505-2.b/0505a012.d/0505a012.cdf

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

Page 1



SU53 : 01142

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	EXPEC RT	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	RT WINDOW	AVG RT	STD DEV
18 NWTPHG	++++	++++	++++	++++	++++	++++	++++	0.492	0.422-0.562	++++	++++
20 WAGAS	++++	++++	++++	++++	++++	++++	++++	0.937	0.867-1.007	++++	++++
19 AK101	++++	++++	++++	++++	++++	++++	++++	1.251	1.181-1.321	++++	++++
21 8015GAS	++++	++++	++++	++++	++++	++++	++++	1.539	1.469-1.609	++++	++++
1 2-Methylpentane	++++	++++	++++	++++	++++	++++	++++	4.268	4.198-4.338	++++	++++
2 nC6	++++	++++	++++	++++	++++	++++	++++	4.774	4.704-4.844	++++	++++
3 nC7	++++	++++	++++	++++	++++	++++	++++	6.859	6.789-6.929	++++	++++
\$ 4 TET (Surr)	7.905	7.904	7.905	7.906	7.908	7.907	7.906	7.905	7.835-7.975	7.906	0.002
5 nC8	++++	++++	++++	++++	++++	++++	++++	9.543	9.473-9.613	++++	++++
6 Toluene	9.946	9.949	9.948	9.949	9.951	9.951	9.952	9.946	9.876-10.016	9.950	0.002
7 nC9	++++	++++	++++	++++	++++	++++	++++	12.478	12.408-12.548	++++	++++
\$ 22 BFB (Surr)	++++	++++	++++	++++	++++	++++	++++	16.027	15.957-16.097	++++	++++
8 nC10-Decane	15.260	15.448	15.449	15.449	15.450	15.450	15.448	15.260	15.190-15.330	15.260	0.000
\$ 9 BB (Surr)	15.449	15.448	15.449	15.449	15.450	15.450	15.448	15.449	15.379-15.519	15.449	0.001
10 1,2,4-Trimethylbenzene	++++	++++	++++	++++	++++	++++	++++	16.159	16.089-16.229	++++	++++
11 nC11	16.756	16.756	16.754	16.755	16.756	16.756	16.758	16.756	16.686-16.826	16.756	0.001
12 nC12-Dodecane	17.836	17.836	17.838	17.844	17.845	17.846	17.856	17.836	17.766-17.906	17.843	0.007

Reviewer 1        Date: 5/9/11  
 Reviewer 2        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

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 Tft(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	9.950	9.947	9.897-9.997	9.948	0.002
15 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.068	13.018-13.118	+++++	+++++
5 Ethylbenzene	12.847	12.850	12.849	12.850	12.852	12.853	12.855	12.847	12.797-12.897	12.851	0.003
6 M/P-Xylene	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)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.006	15.976-16.036	+++++	+++++
8 BB(Surr)	15.450	15.447	15.448	15.449	15.449	15.450	15.448	15.450	15.400-15.500	15.449	0.001
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          Date: 5/9/11  
 Reviewer 2 MH 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

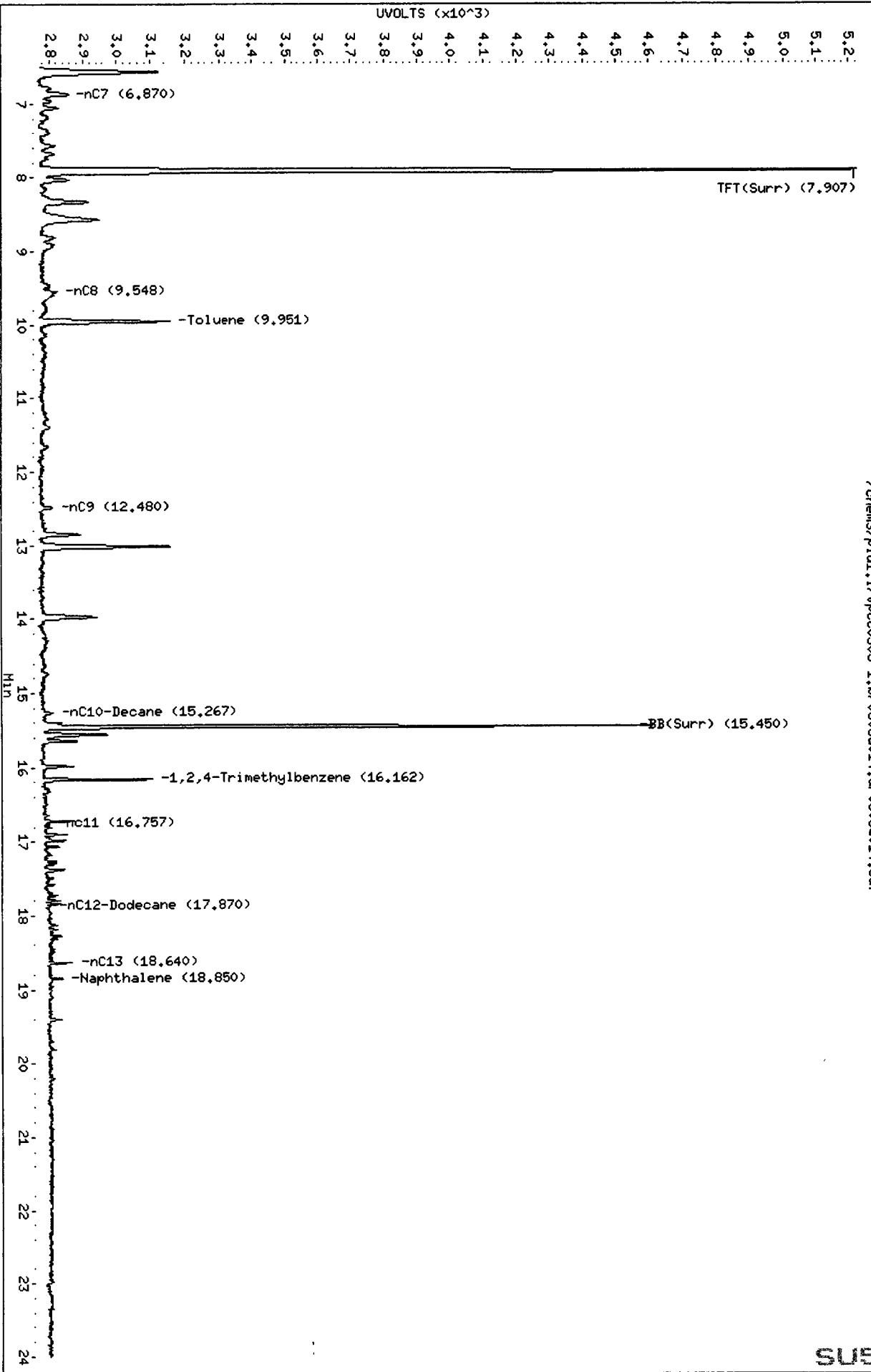
Instrument: pid1.i

Operator: MH

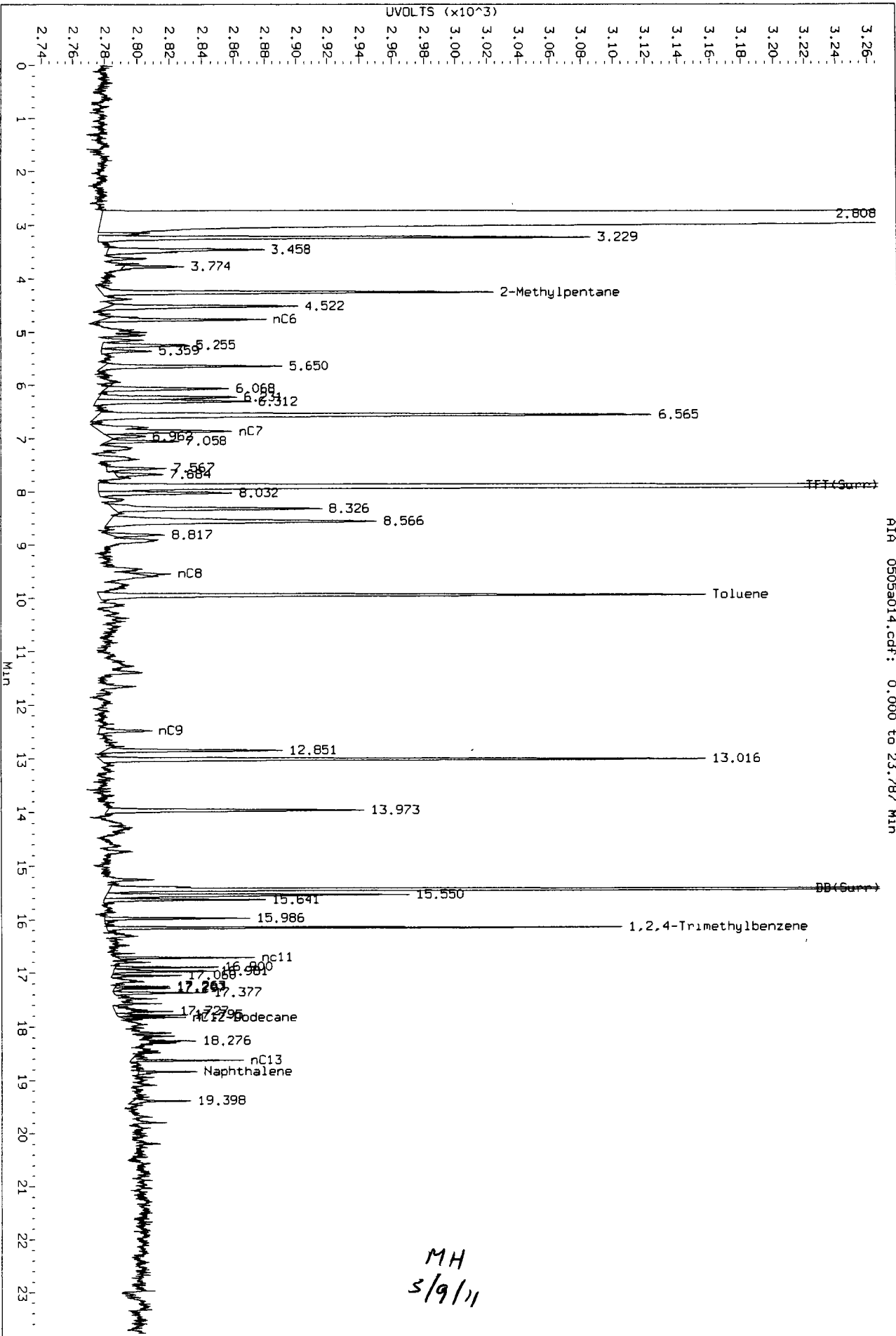
Column diameter: 0.18

Column phase: RTX 502-2 FID

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



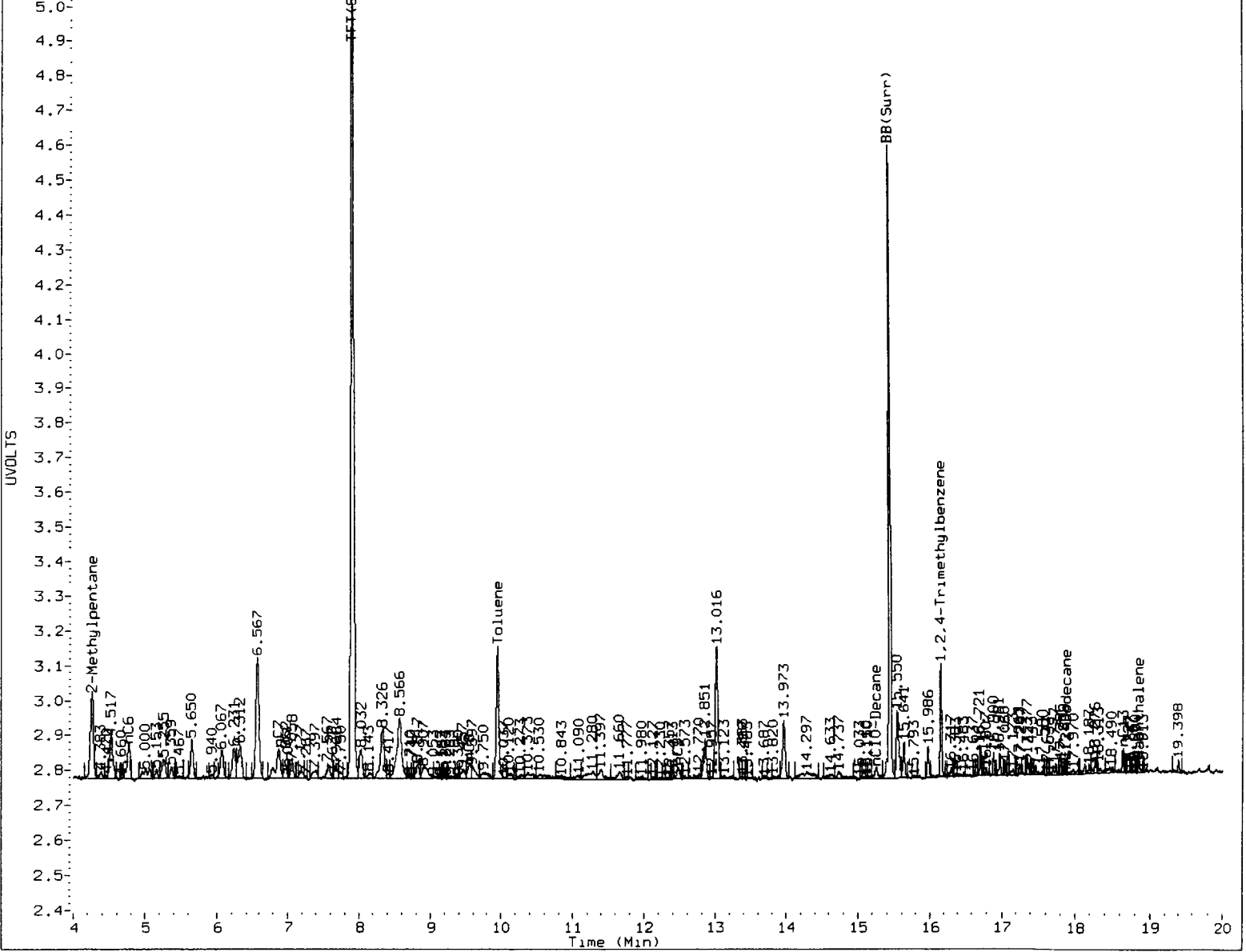
Data File: /chem3/pud1.1/vpcc0505-1.b/0505a014.d/0505a014.cdf  
Injection Date: 05-MAY-2011 16:31  
Instrument: pud1.1  
Client Sample ID:



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

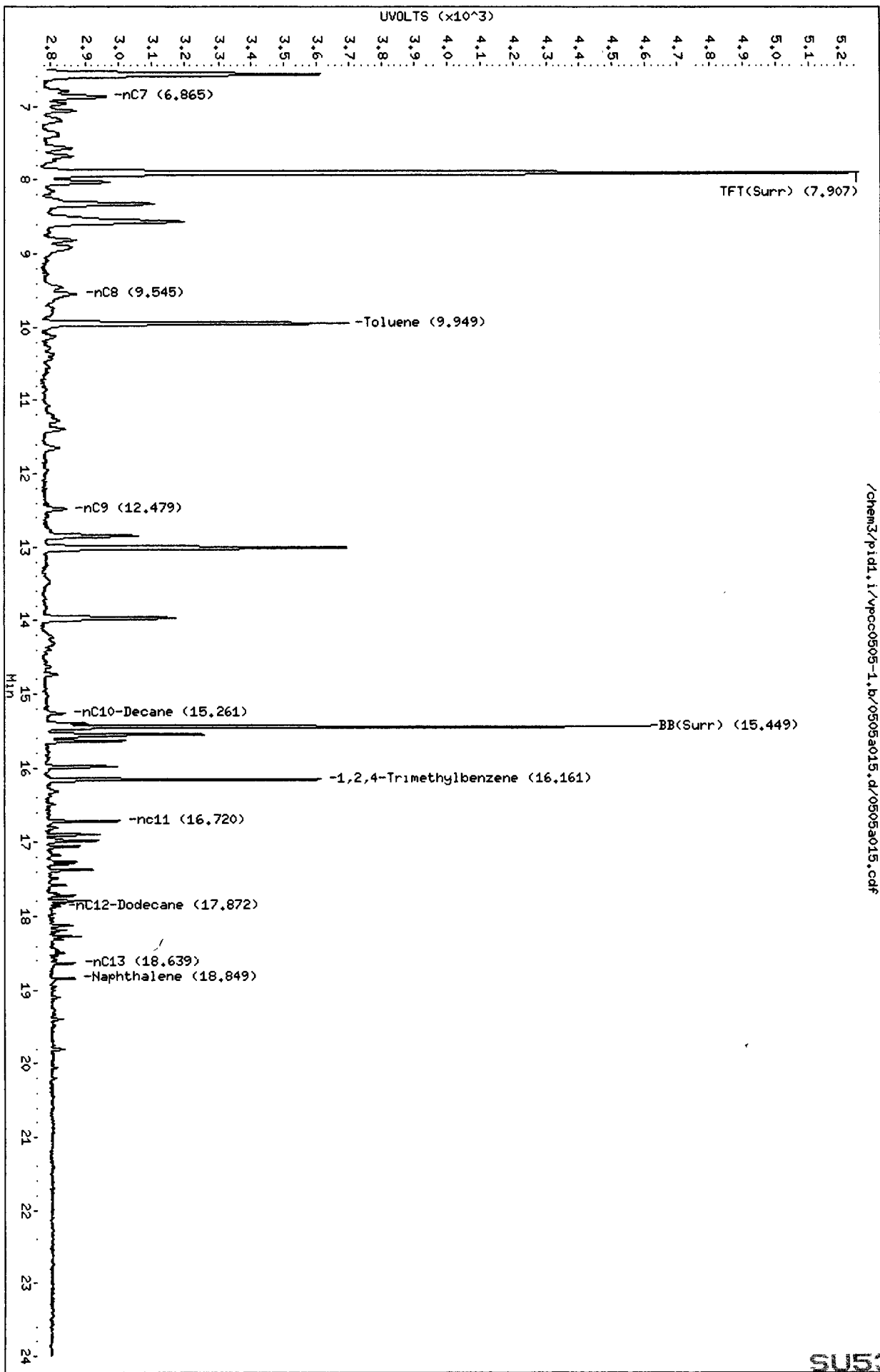
N Indicates peak peak was manually integrated

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

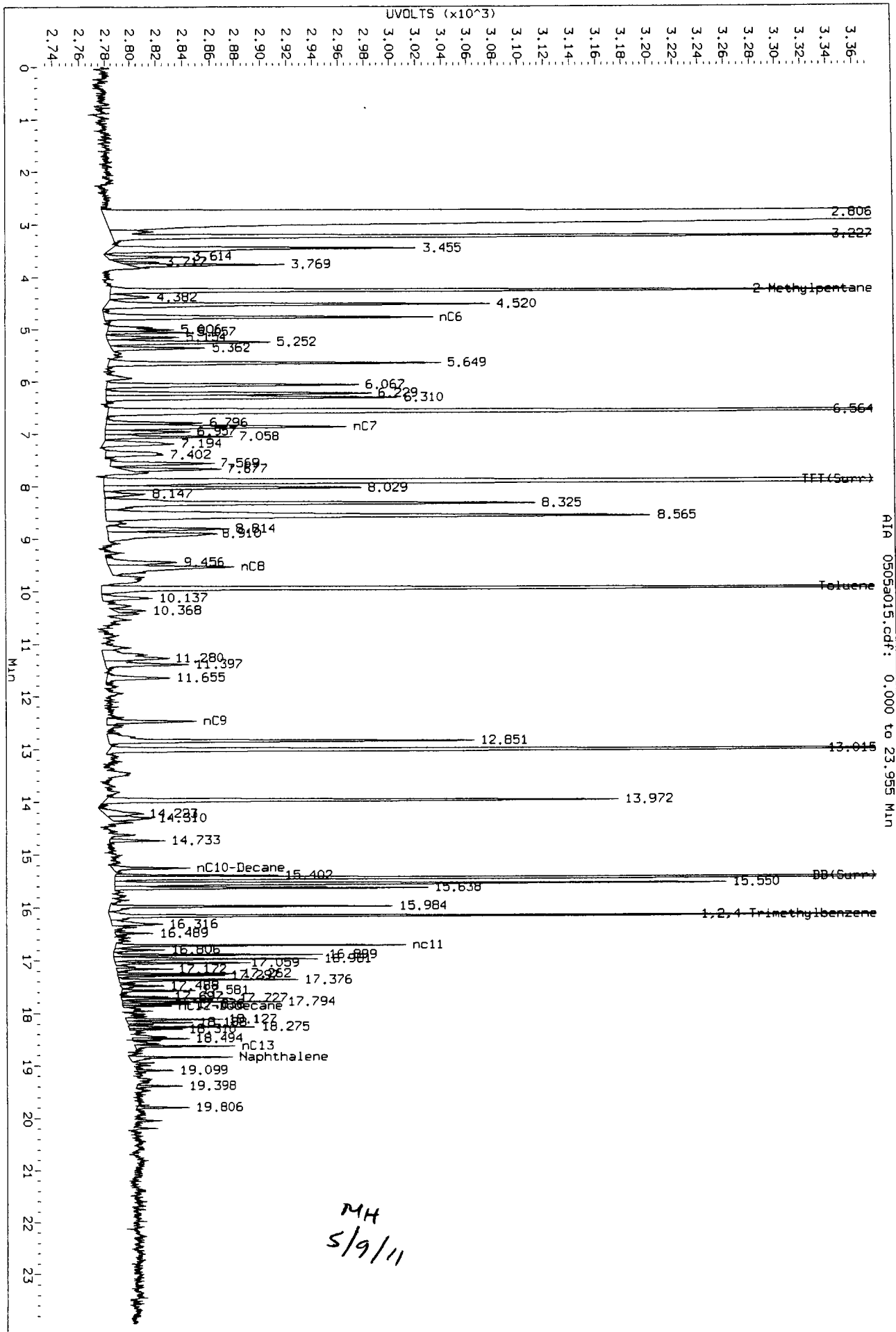
Column phase: RTX 502-2 FID

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

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



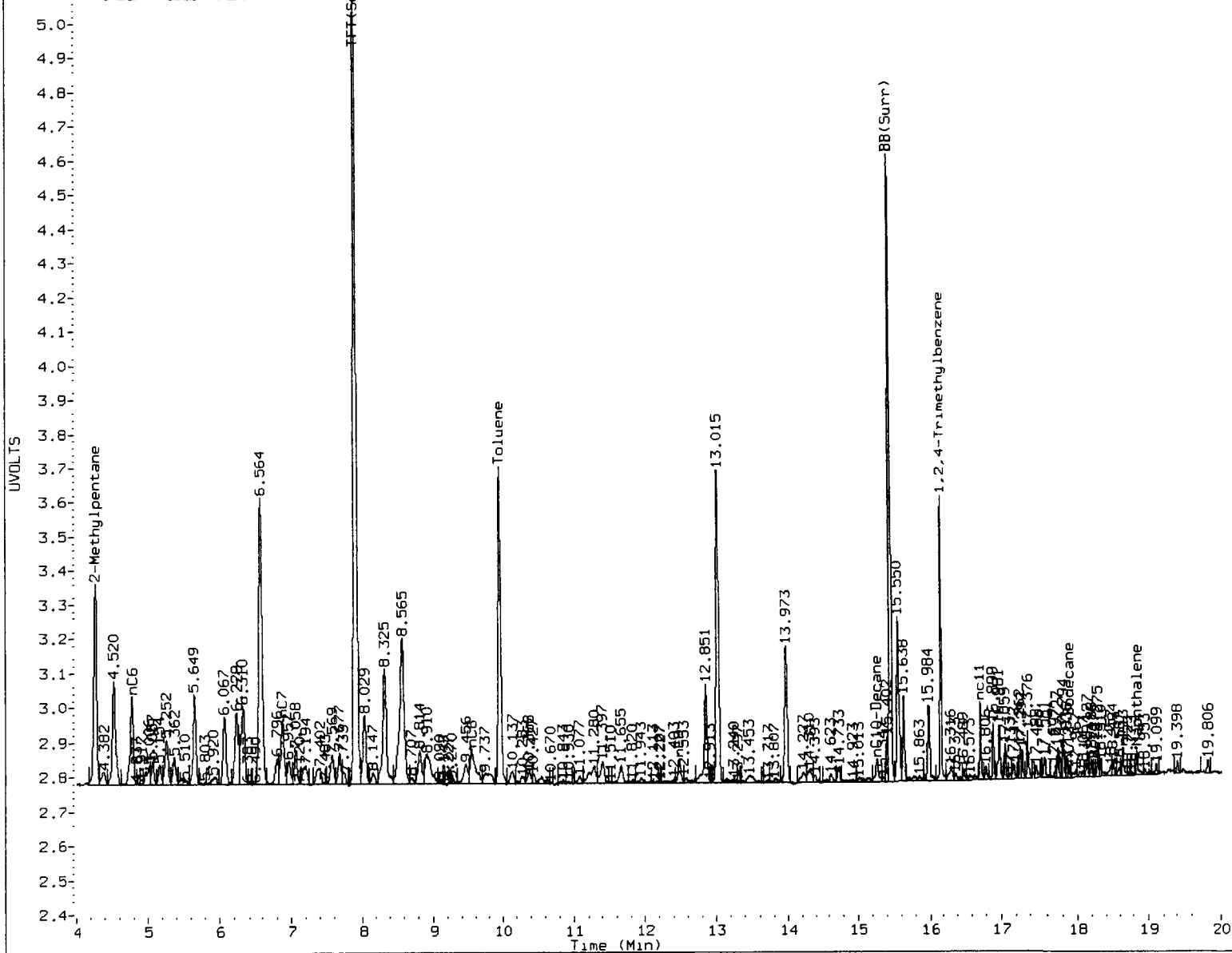
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 Injection Date: 05-MAY-2011 17:00  
 Instrument: pid1.1  
 Client Sample ID:



AIA 0505a015.cdf: 0.000 to 23.955 MIN

MH  
5/9/11

FID GAS .25



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/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

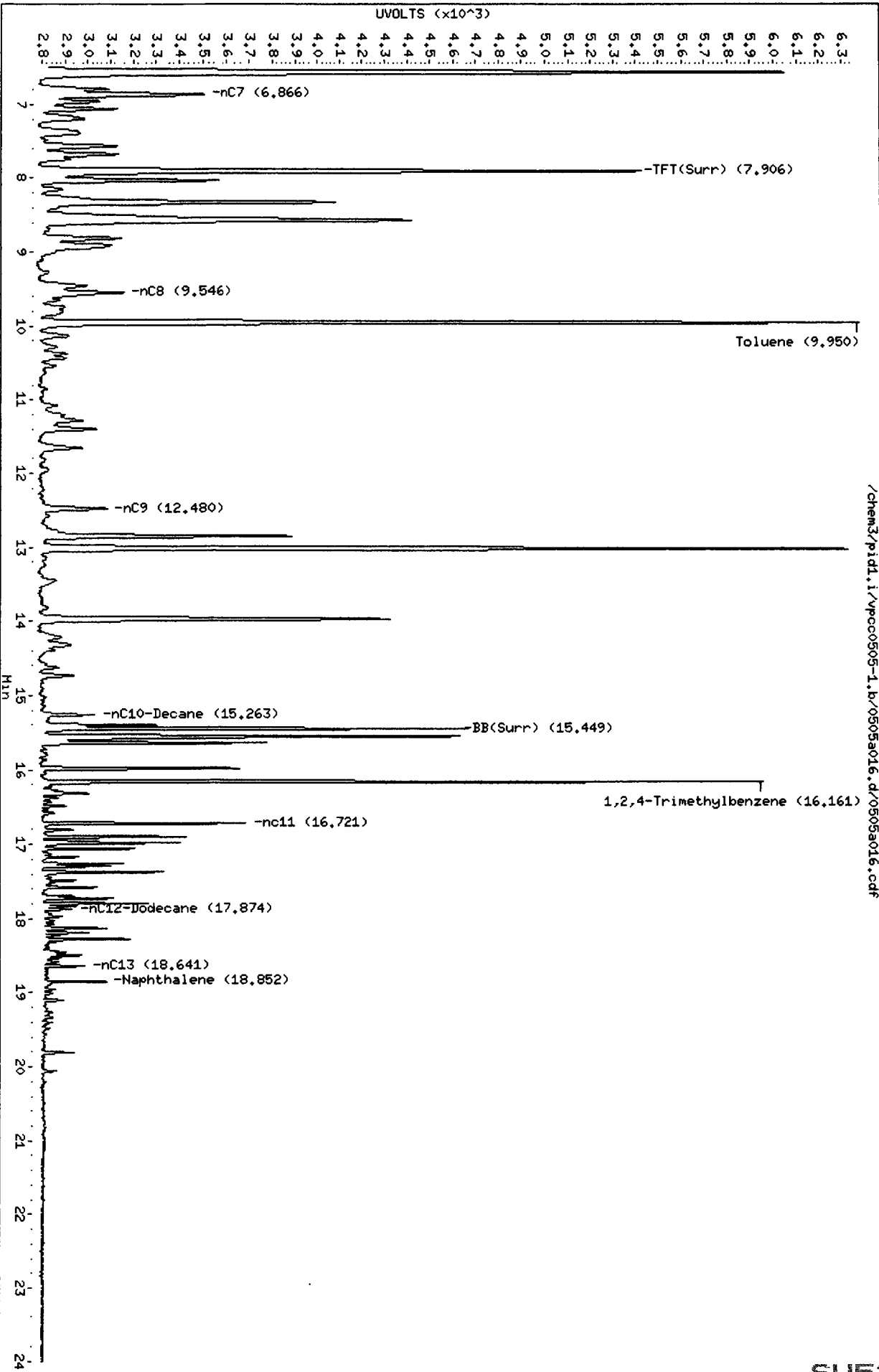
A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0505-1.b/0505a016.d  
Date: 05-MAY-2011 17:30  
Client ID:  
Sample Info: GAS 1

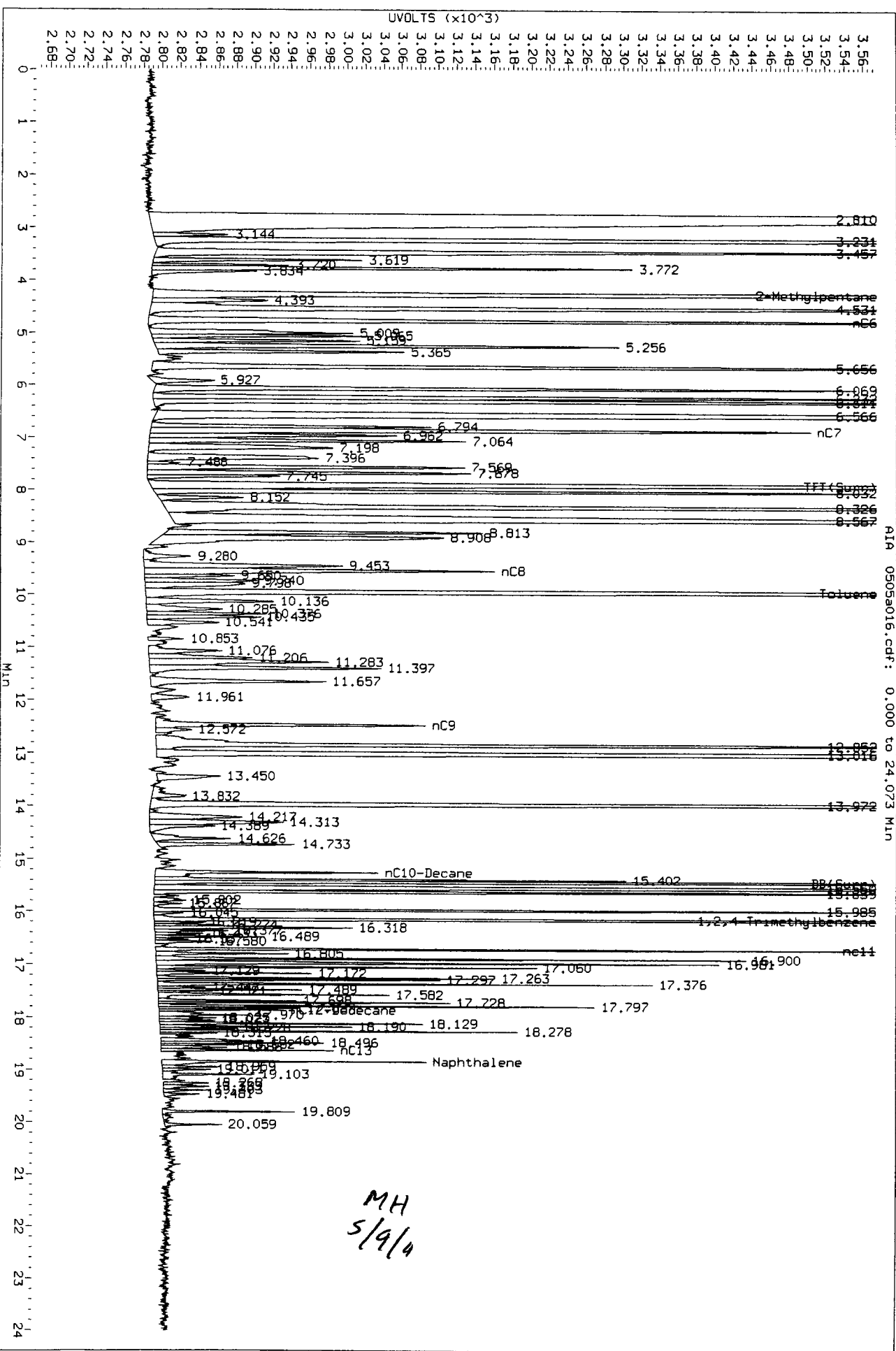
Column phase: RTX 502-2 FID

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



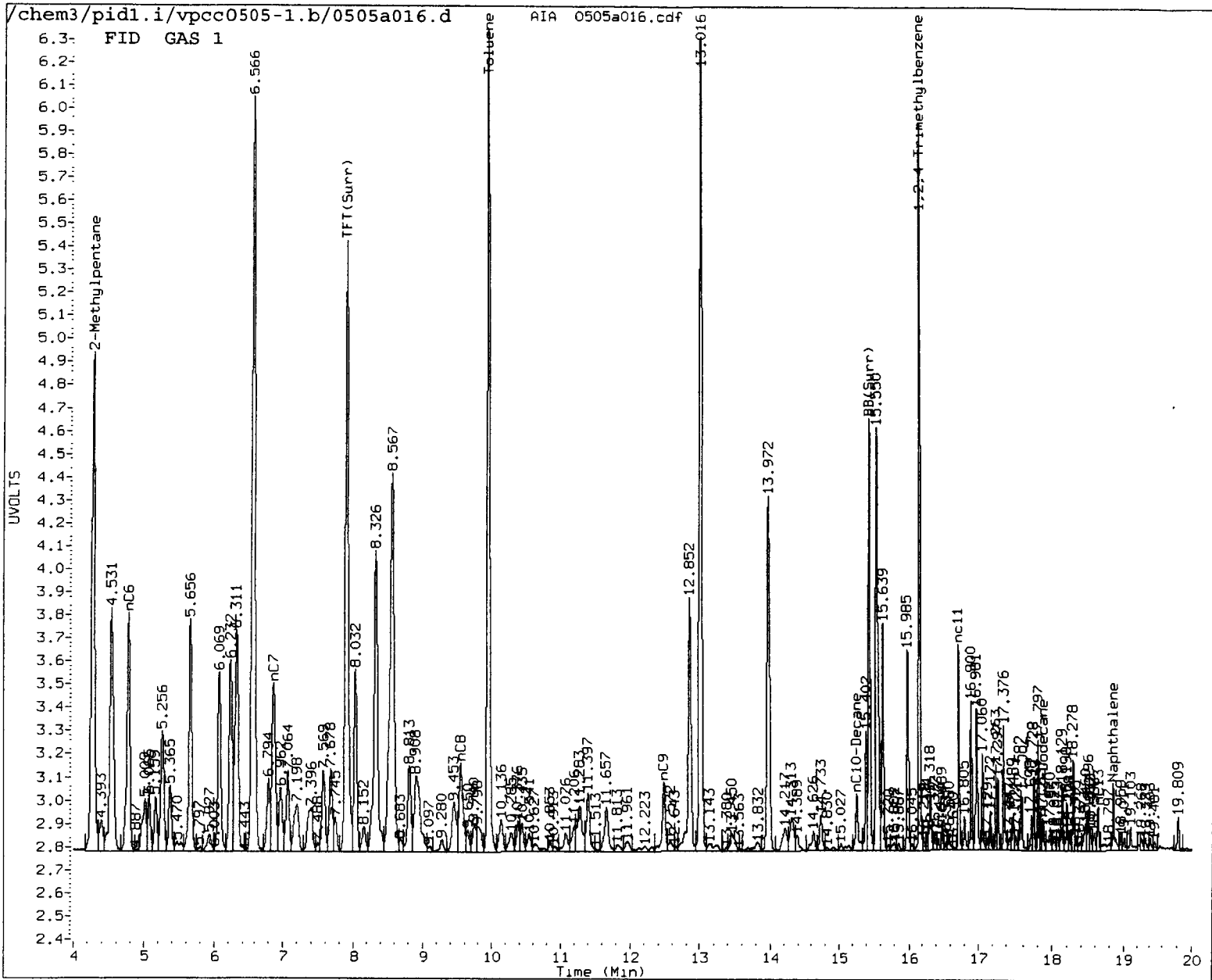
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Data File: /chem3/pid1.1/vpcc0505-1.b/0505a016.d/0505a016.cdf  
 Injection Date: 05-MAY-2011 17:30  
 Instrument: pid1.1  
 Client Sample ID:



AIA 0505a016.cdf: 0.000 to 24.073 MIN

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

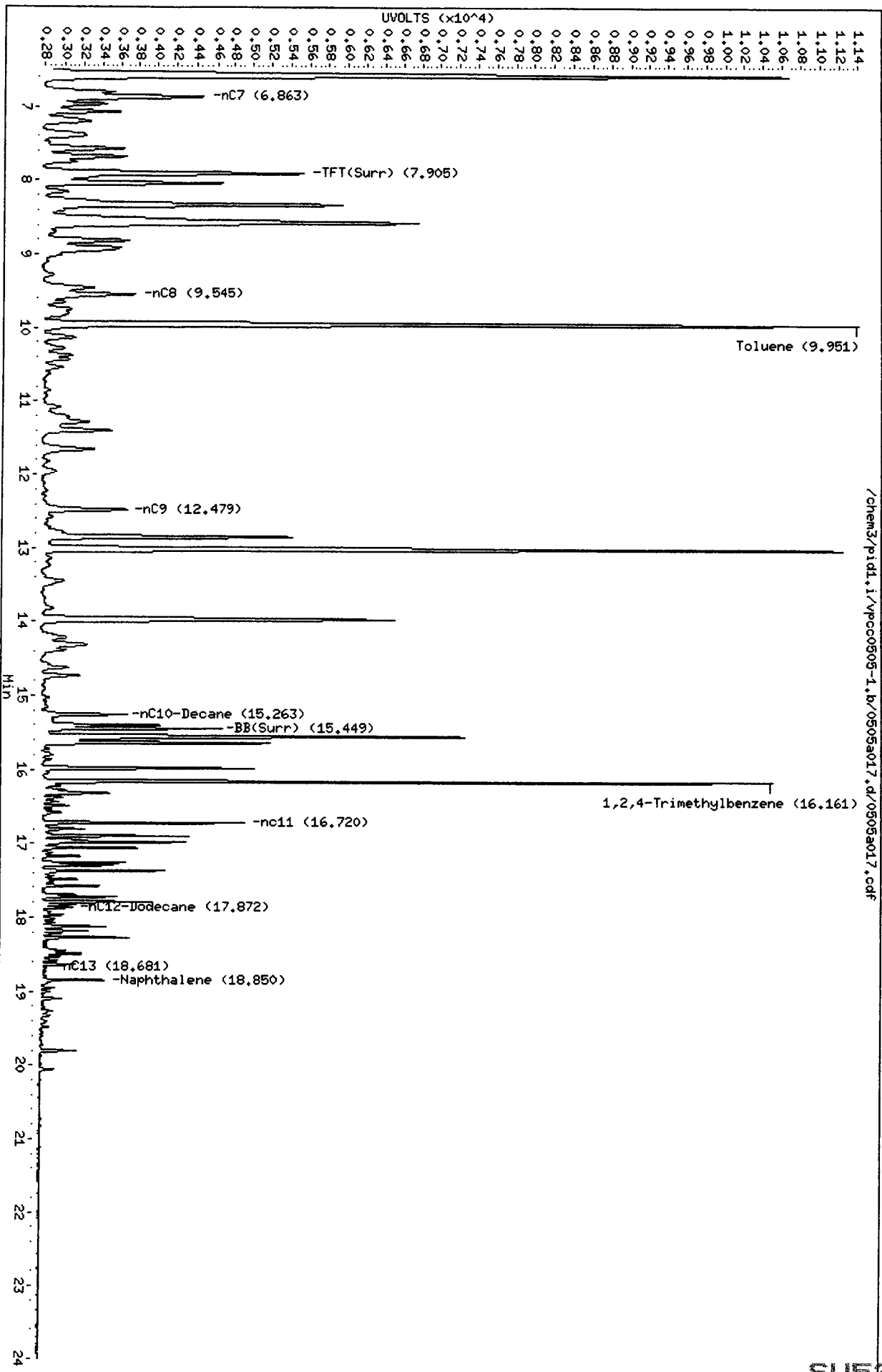
A Indicates Peak Area was used for quantitation instead of Height

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

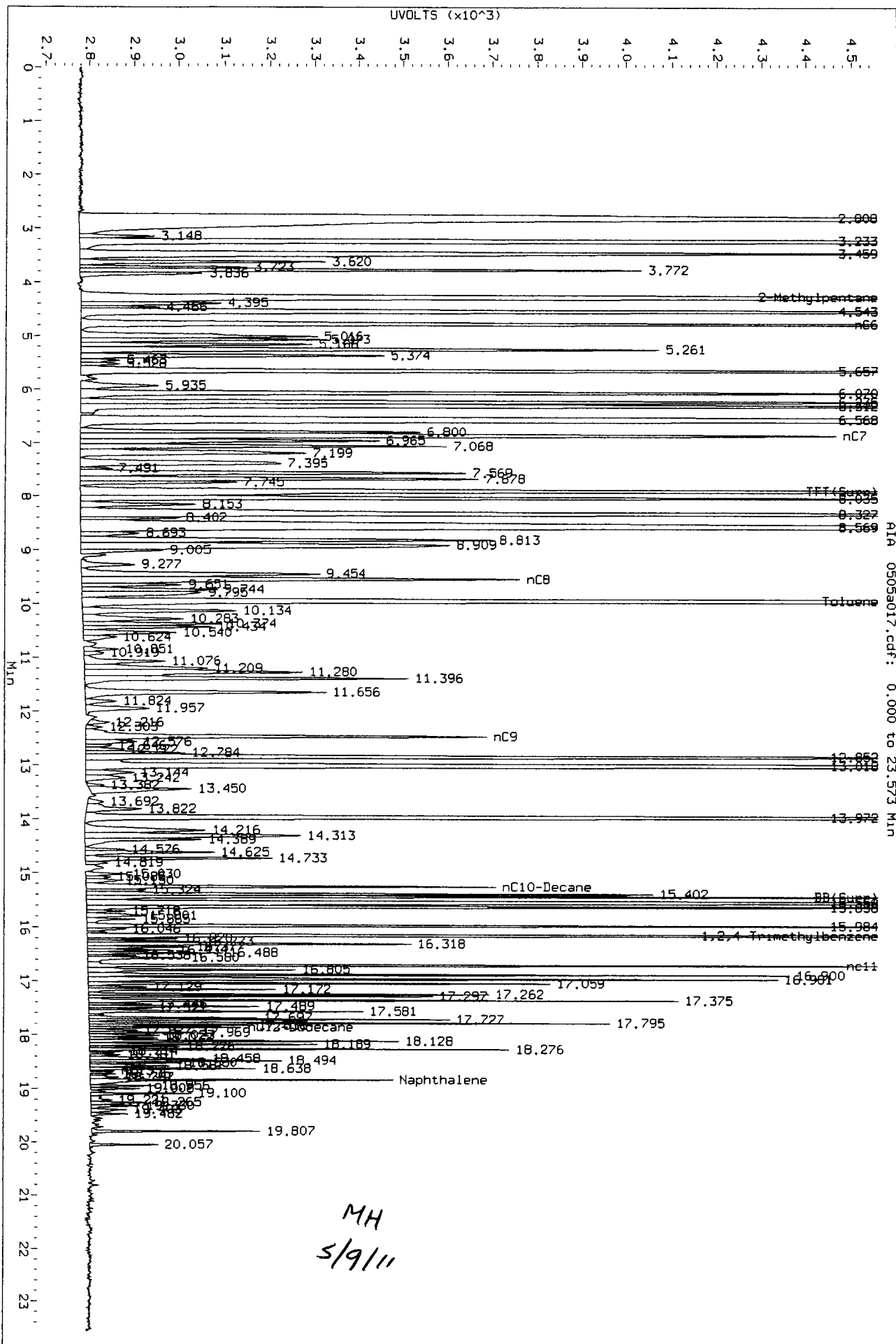
Column phase: RTX 502-2 FID

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



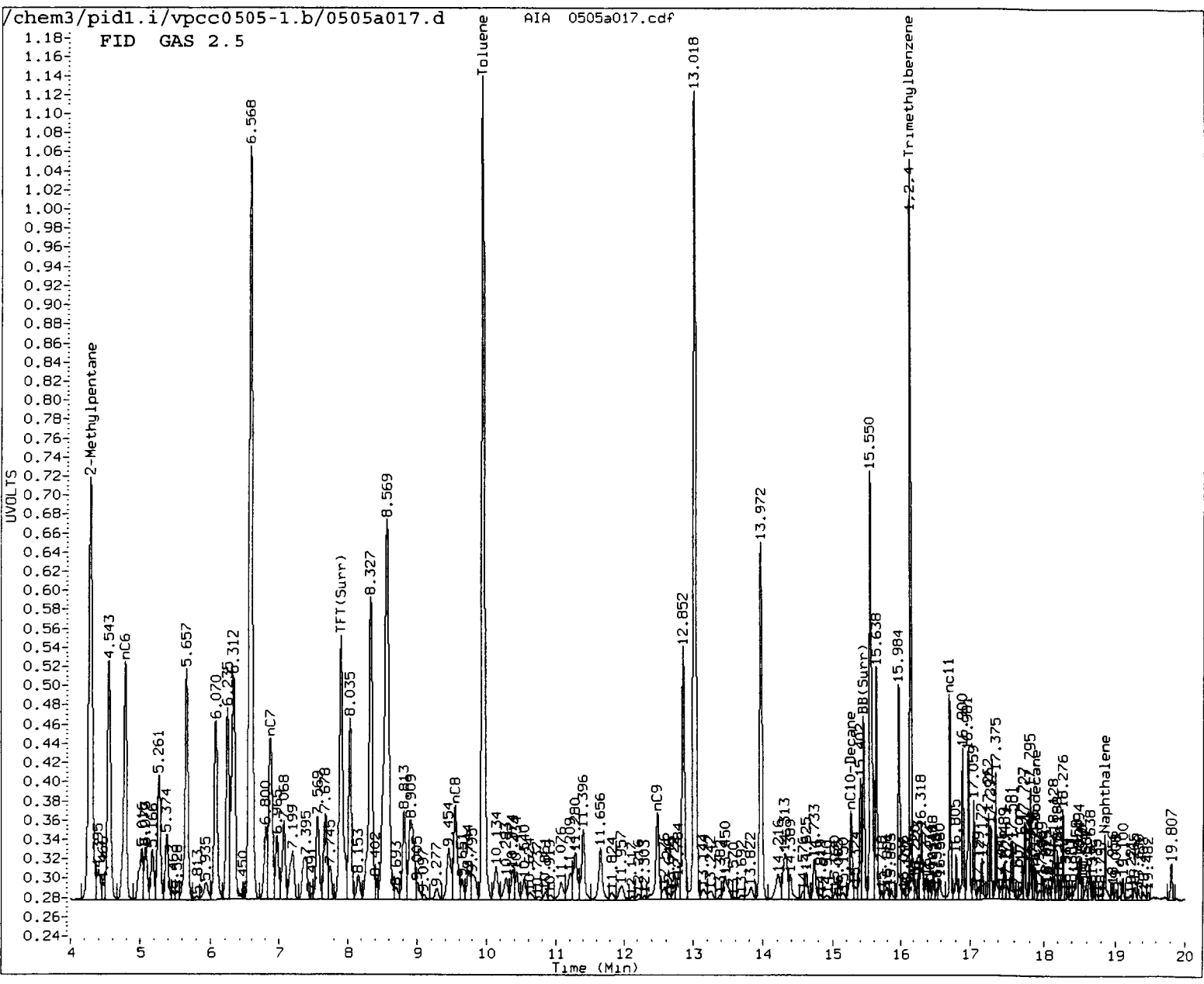
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Data File: /chem3/p1d1.1/vpcc0505-1.1.b/0505a017.d/0505a017.cdf  
Injection Date: 05-MAY-2011 17:59  
Instrument: p1d1.1  
Client Sample ID:



AIA 0505a017.cdf: 0.000 to 23.573 MIN

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

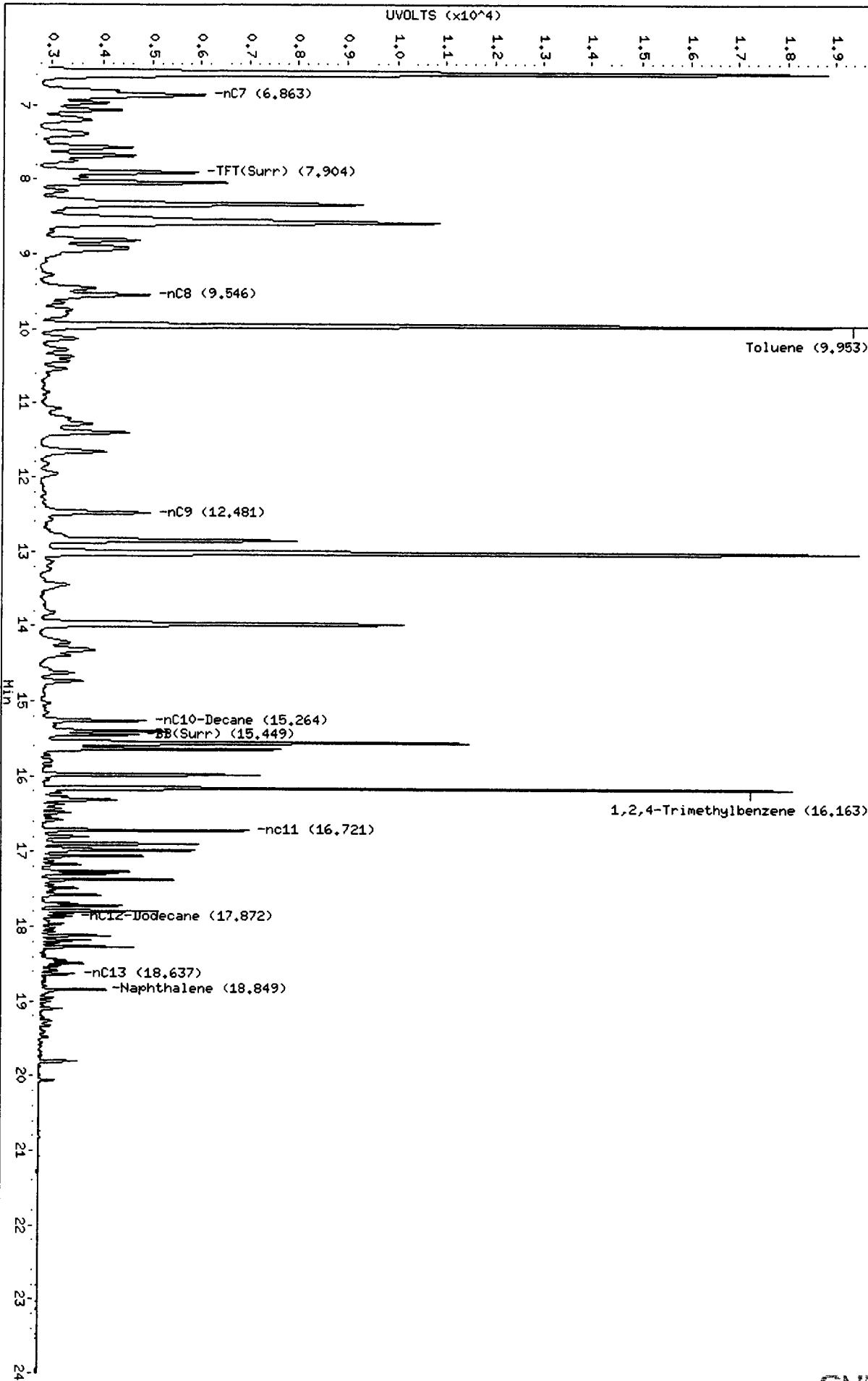
Instrument: pid1.i

Page 1

Column phase: RTX 502-2 FID

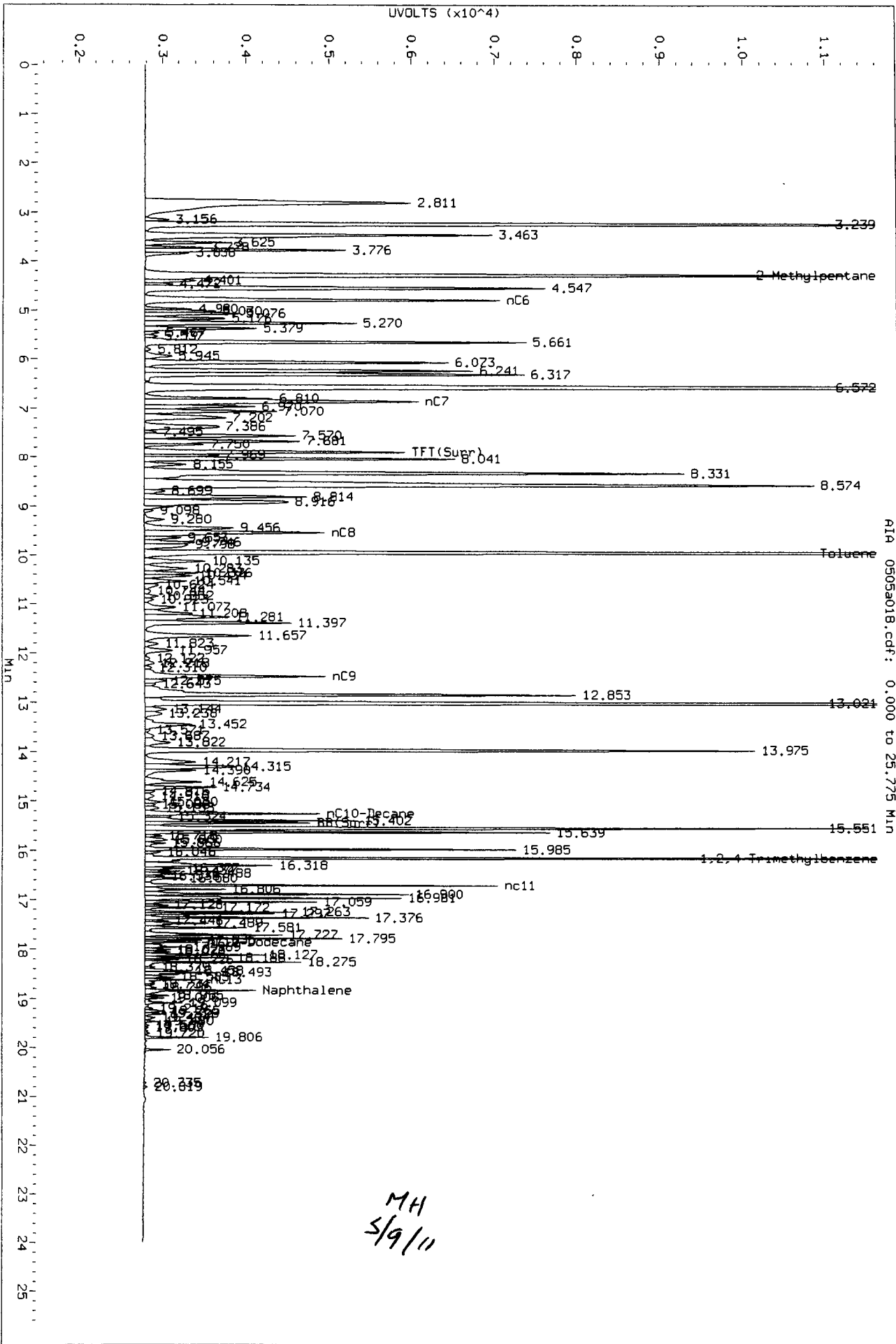
Operator: HH  
Column diameter: 0.18

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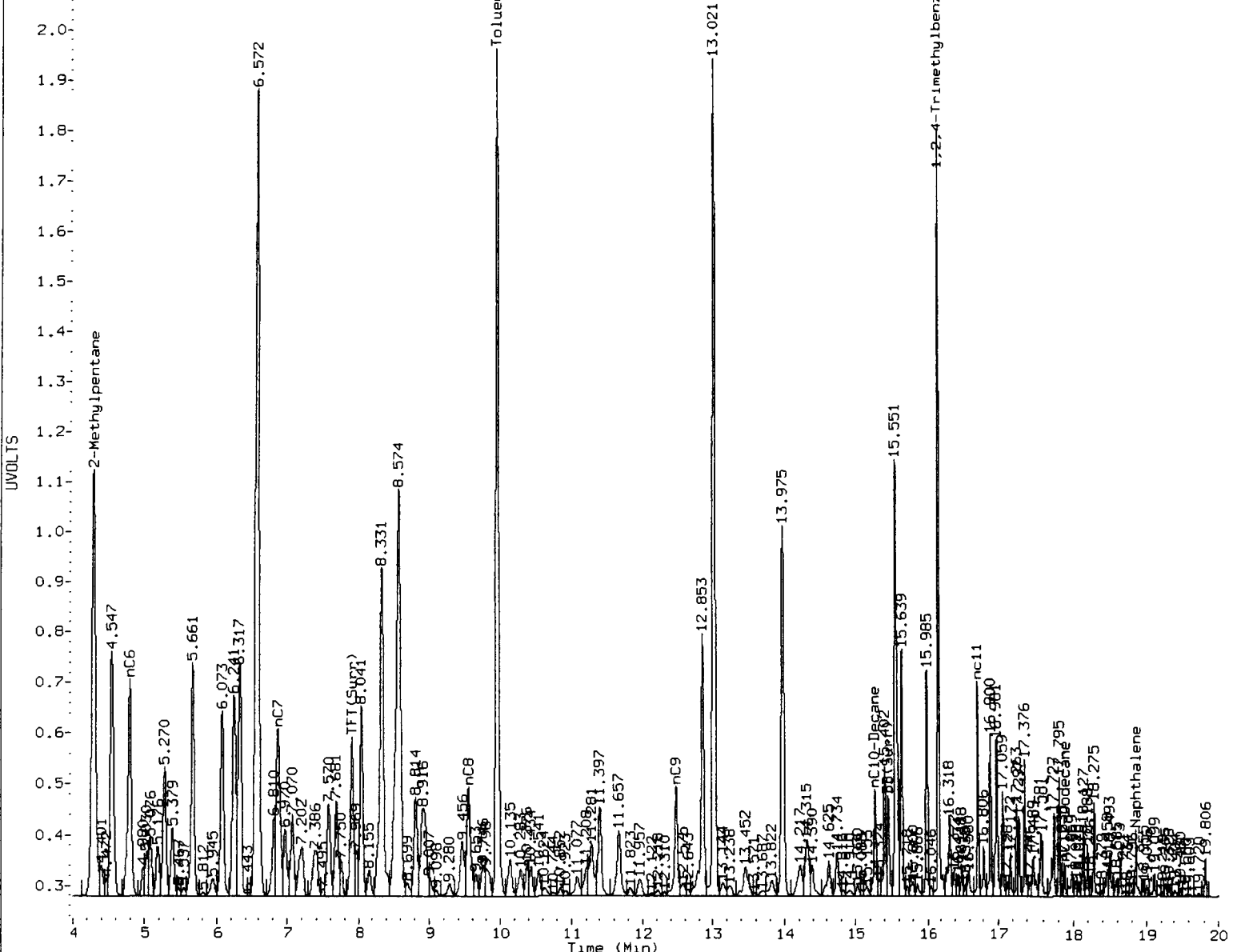


SU53: 01162

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:



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



44  
5/9/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pidl.i/vpcc0505-1.b/0505a019.d    ARI ID: GAS 20  
Data file 2: /chem3/pidl.i/vpcc0505-2.b/0505a019.d    Client ID:  
Method: /chem3/pidl.i/vpcc0505-2.b/PIDB.m            Injection Date: 05-MAY-2011 18:57  
Instrument: pidl.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

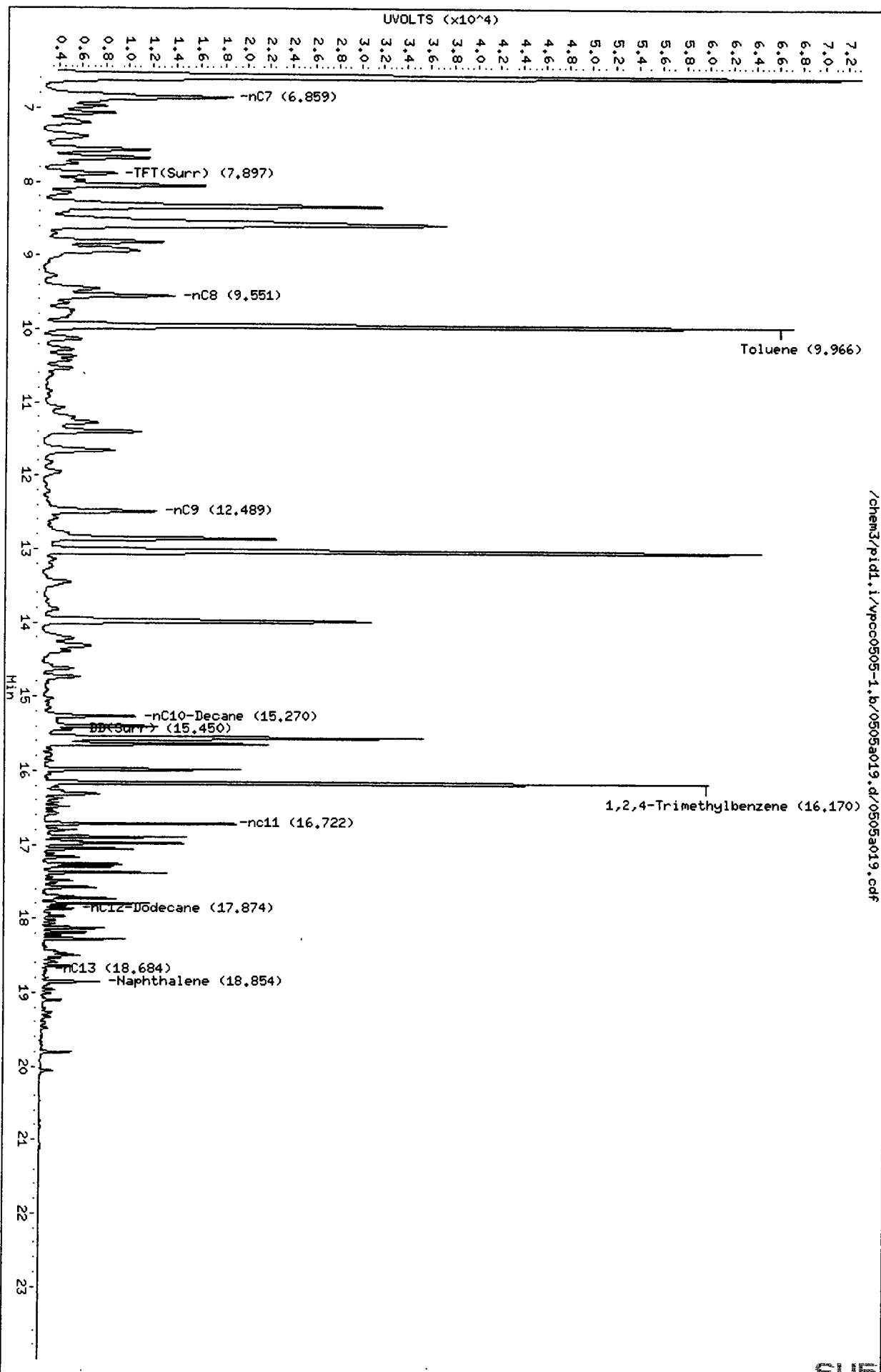
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0505-1.b/0505a019.d  
Date: 05-MAY-2011 18:57  
Client ID:  
Sample Info: GAS 20

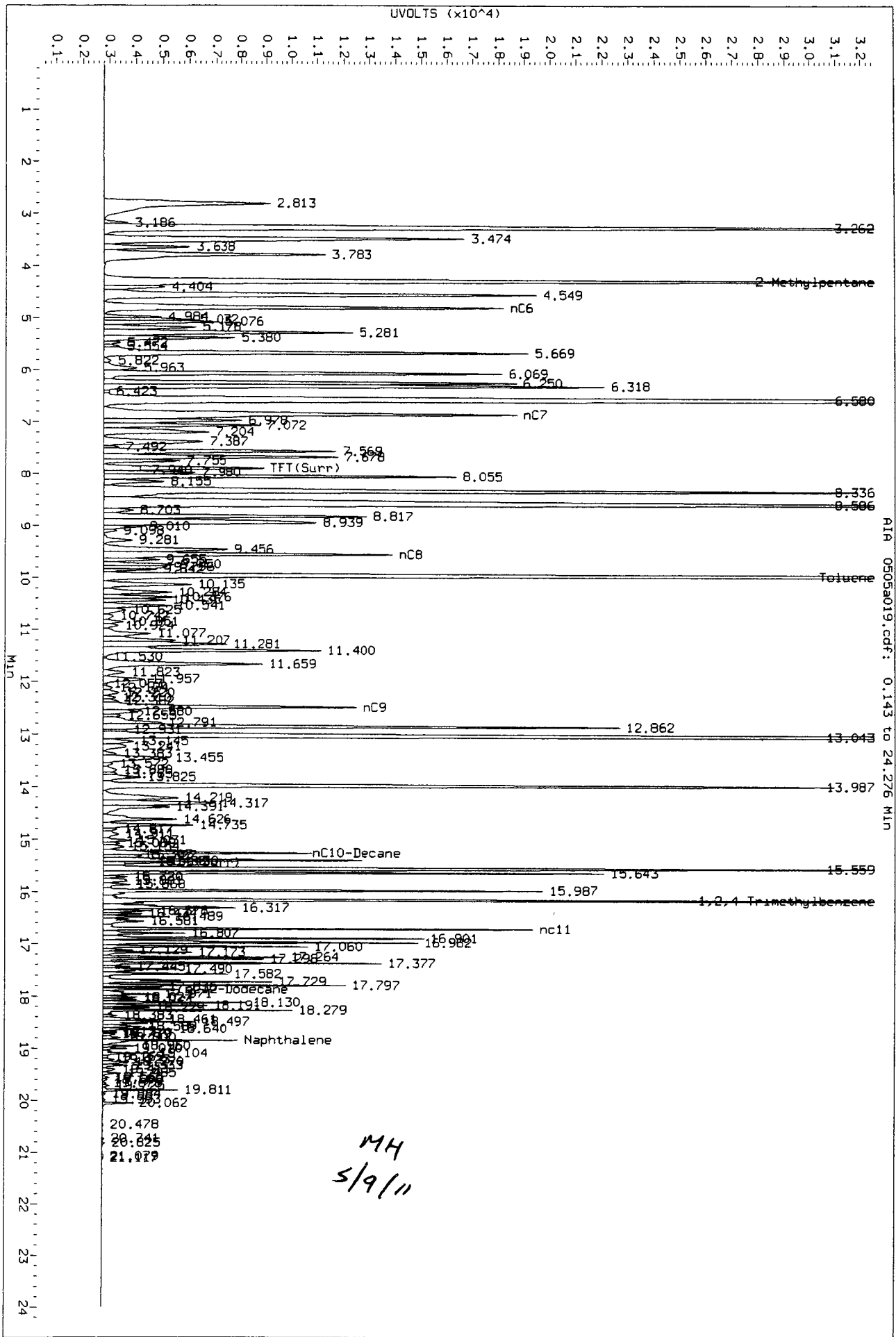
Column phase: RTX 502-2 FID

/chem3/pid1.i/vpcc0505-1.b/0505a019.d/0505a019.cdf

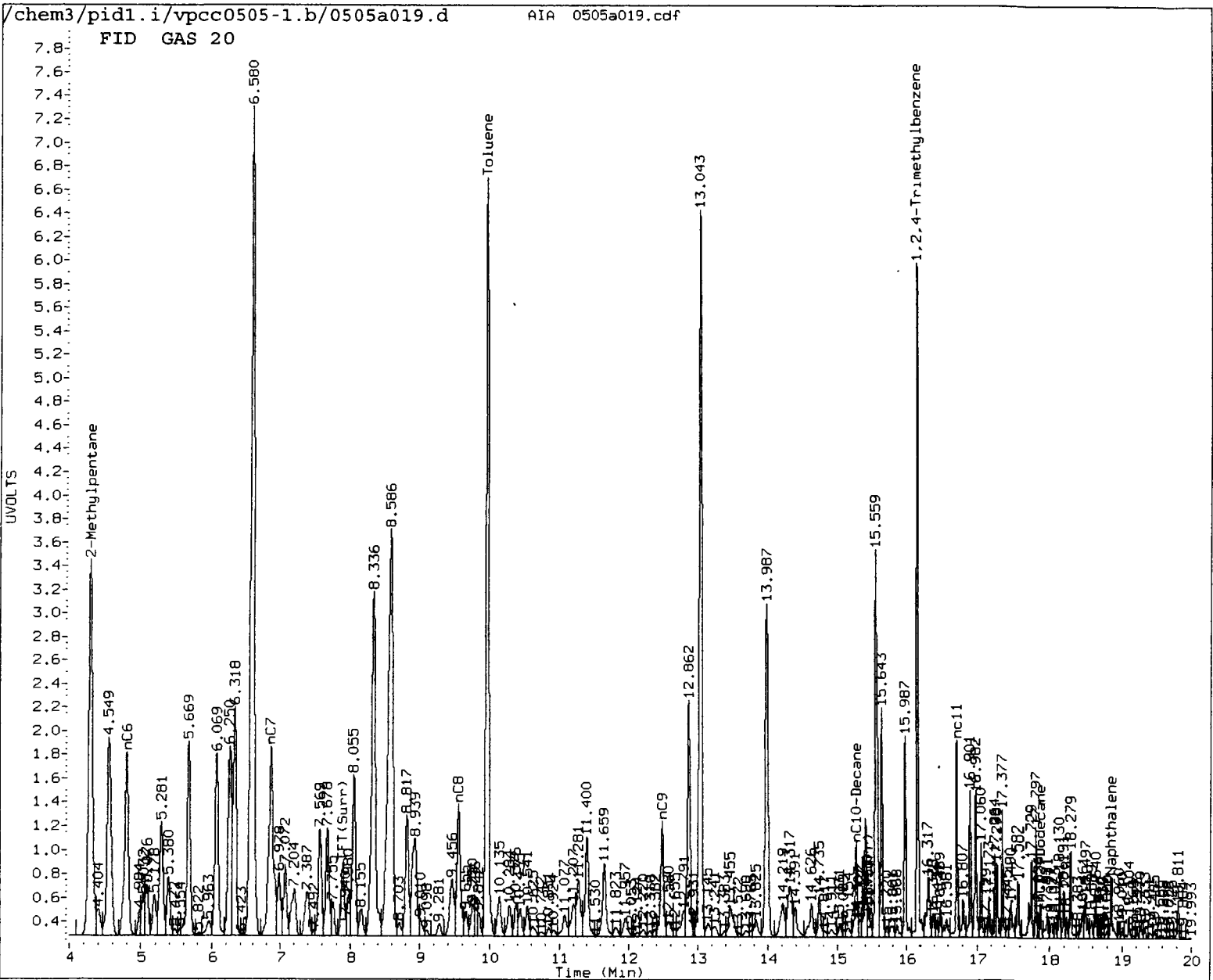
Instrument: pid1.i  
Operator: MH  
Column diameter: 0.18



Data File: /chem3/pd1.1/vpc0505-1.b/0505a019.d/0505a019.cdf  
 Injection Date: 05-MAY-2011 18:57  
 Instrument: pd1.1  
 Client Sample ID:



AIA 0505a019.cdf: 0.143 to 24.276 MIN



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/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

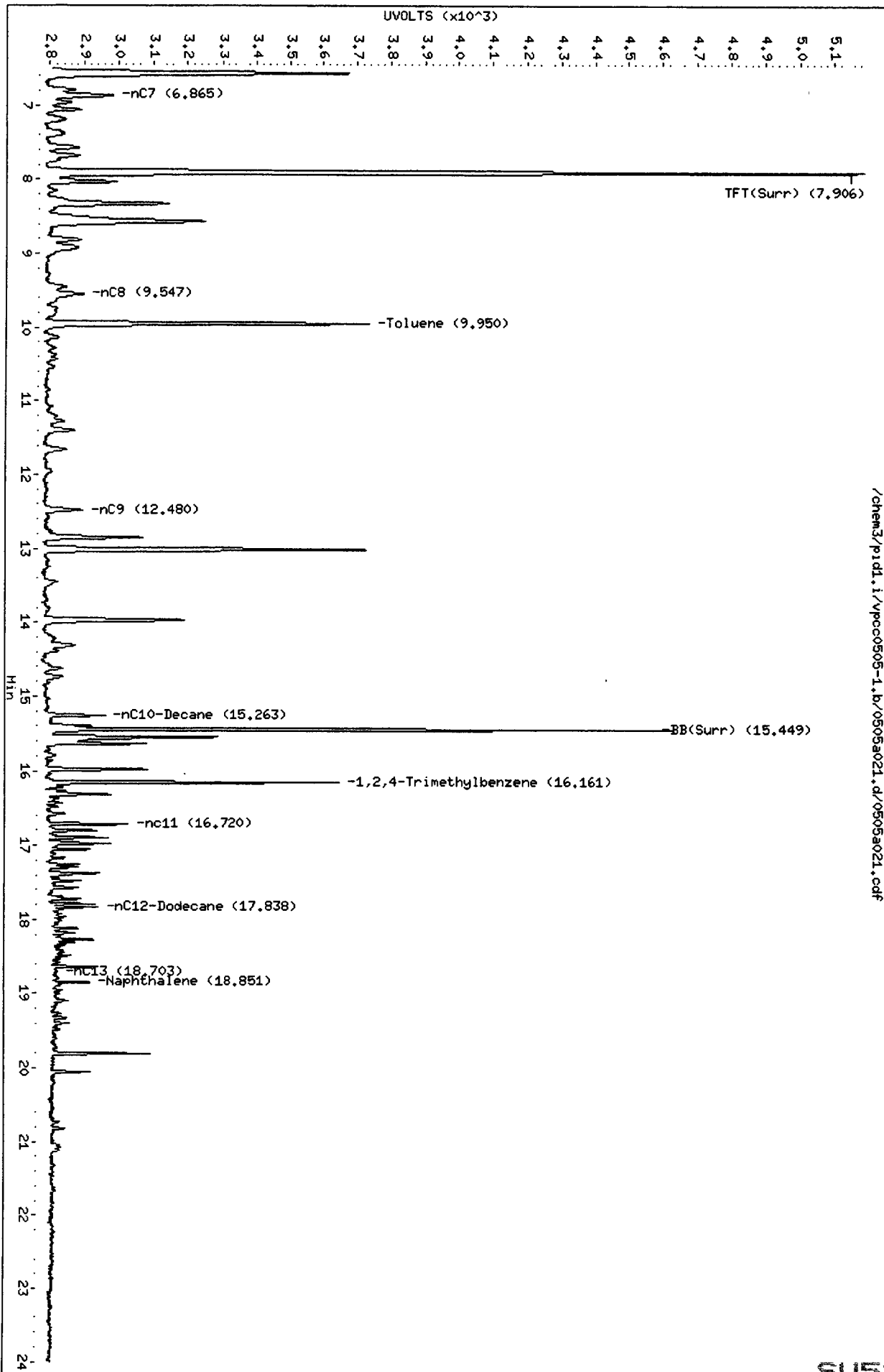
Column phase: RTX 502-2 FID

Instrument: pid1.1

Operator: MH

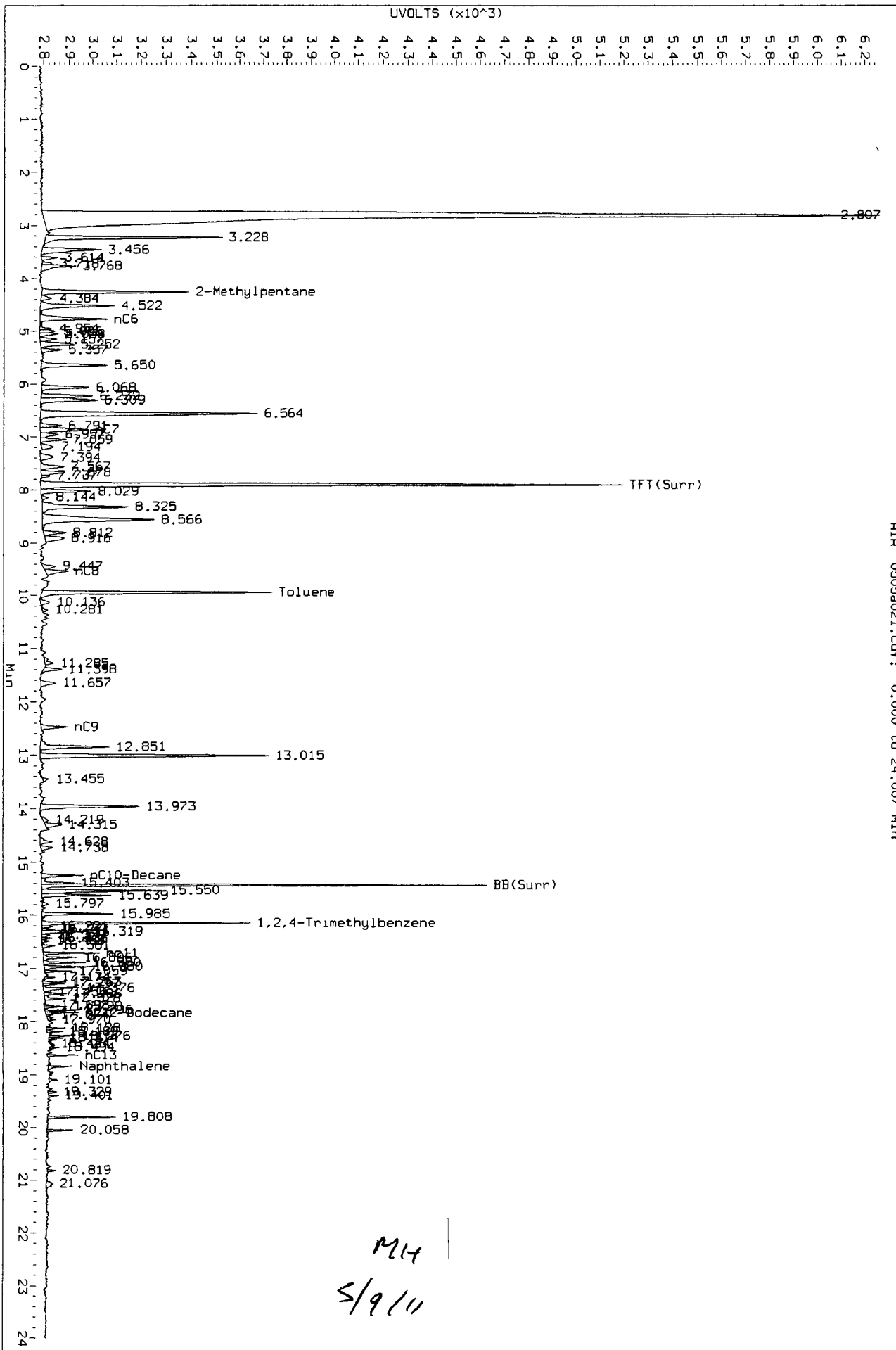
Column diameter: 0.18

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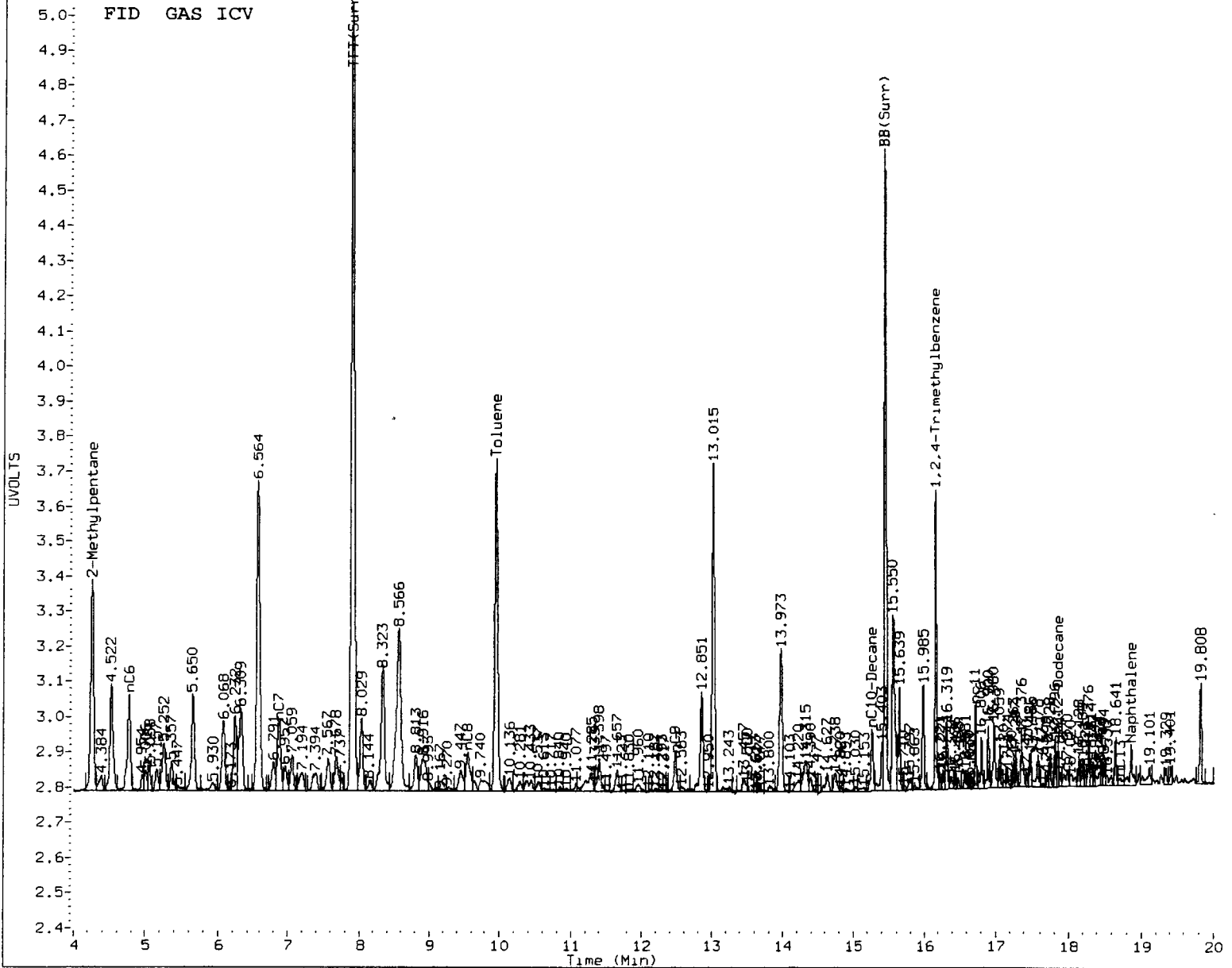


Data File: /chem3/prd1.1/vpcc0505-1.b/0505a021.d/0505a021.cdf  
Injection Date: 05-MAY-2011 19:56  
Instrument: prd1.1  
Client Sample ID:

AIA 0505a021.cdf: 0.000 to 24.007 Min



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



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

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
18 NWTPHG	+++++	+++++	+++++	+++++	+++++	+++++	0.492	0.422-0.562	+++++	+++++
20 WAGAS	+++++	+++++	+++++	+++++	+++++	+++++	0.937	0.867-1.007	+++++	+++++
19 AK101	+++++	+++++	+++++	+++++	+++++	+++++	1.251	1.181-1.321	+++++	+++++
21 8015GAS	+++++	+++++	+++++	+++++	+++++	+++++	1.539	1.469-1.609	+++++	+++++
1 2-Methylpentane	4.260	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

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 TBT(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: SU53, SU73, SU74**



### VOA Analyst Notes / Corrective Action Log

ARI Project ID: ST98-SU53-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: 5/5/11

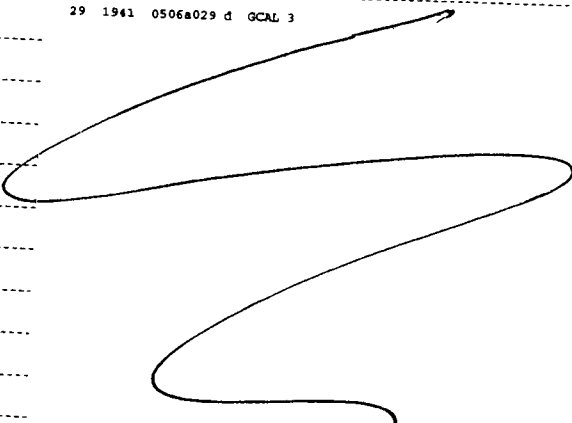
# Analytical Resources Inc.: Organics Instrument Log

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
<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	DF
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):  
 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/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

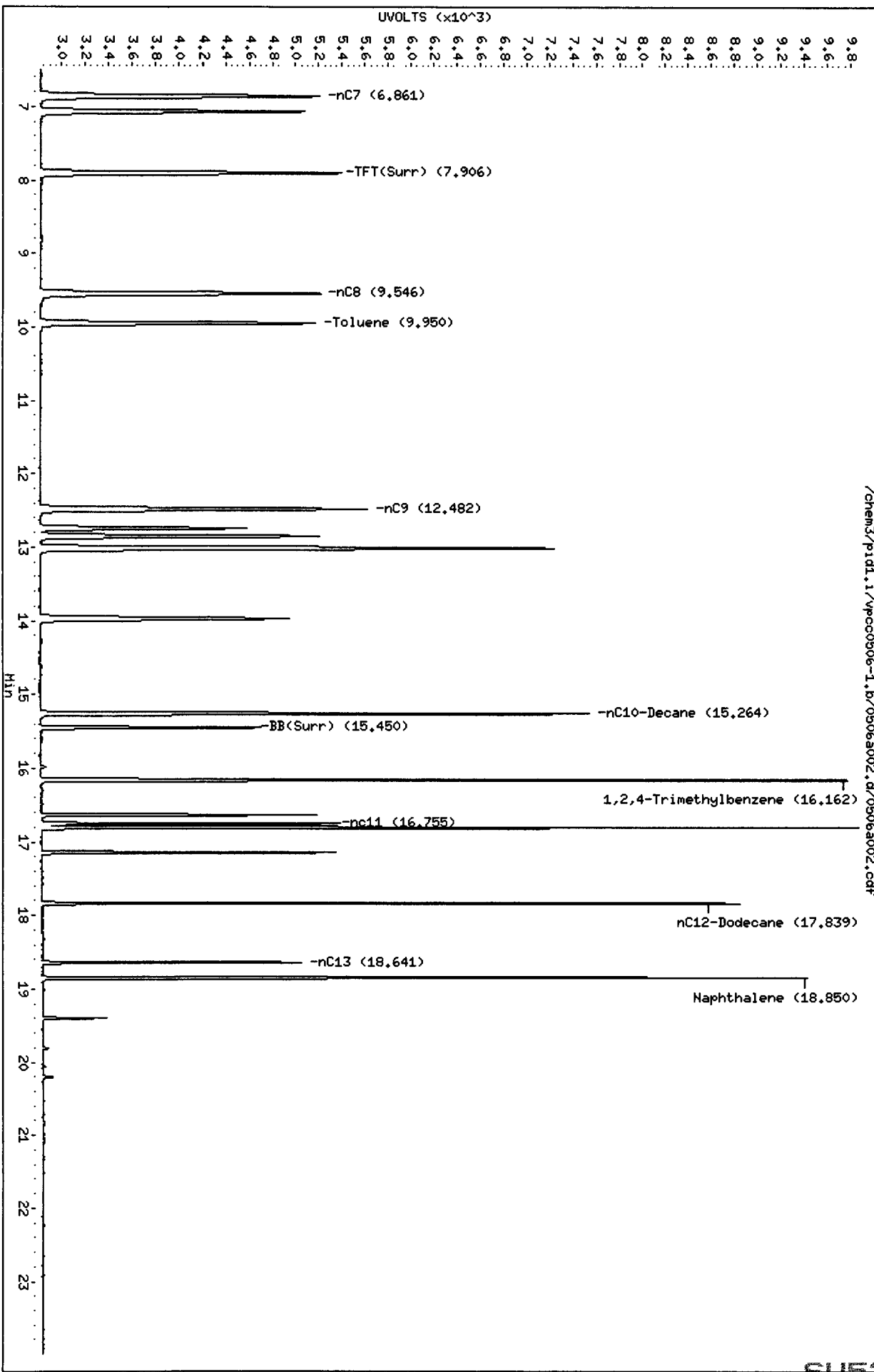
A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a002.d  
Date : 06-MAY-2011 06:13  
Client ID:  
Sample Info: RT+BCAL 1

Column phase: RTX 502-2 FID

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

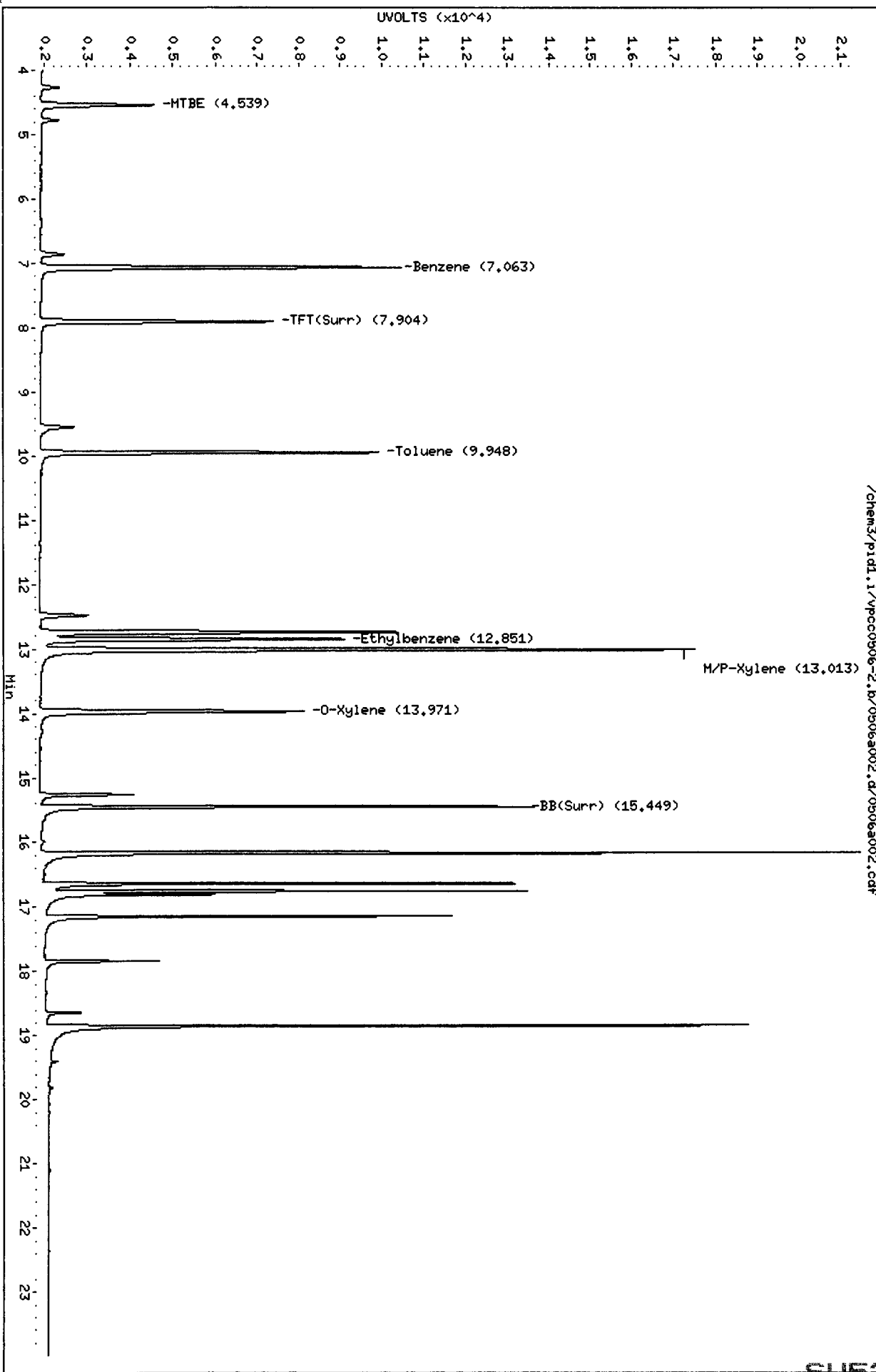
/chem3/pid1.i/vpcc0506-1.b/0506a002.d/0506a002.cdf



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a002.d  
Date : 06-MAY-2011 06:13  
Client ID:  
Sample Info: RT+GCAL 1

Column phase: RTX 502-2 PID

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



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



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:

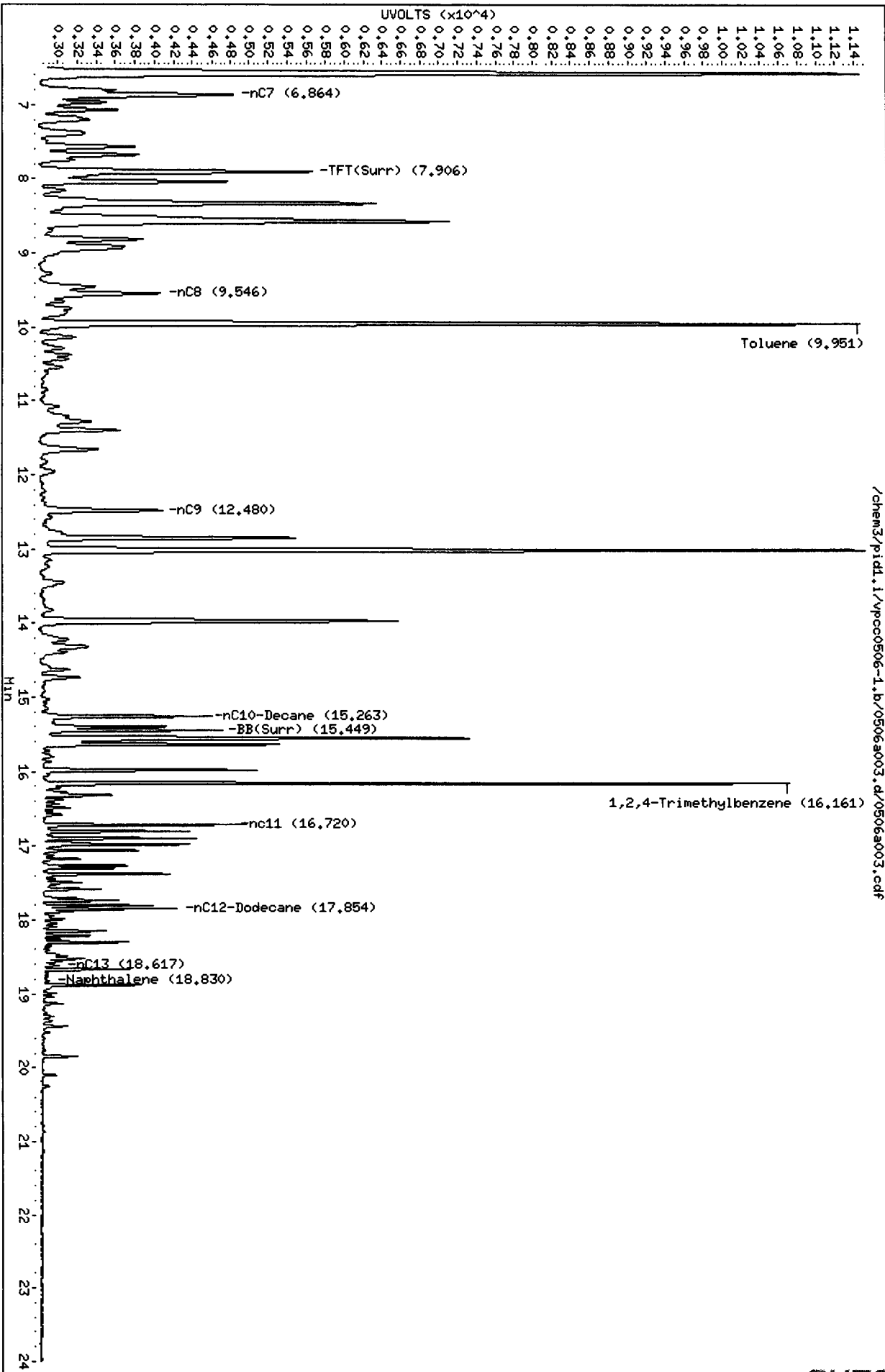
Sample Info: GCAL 1

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

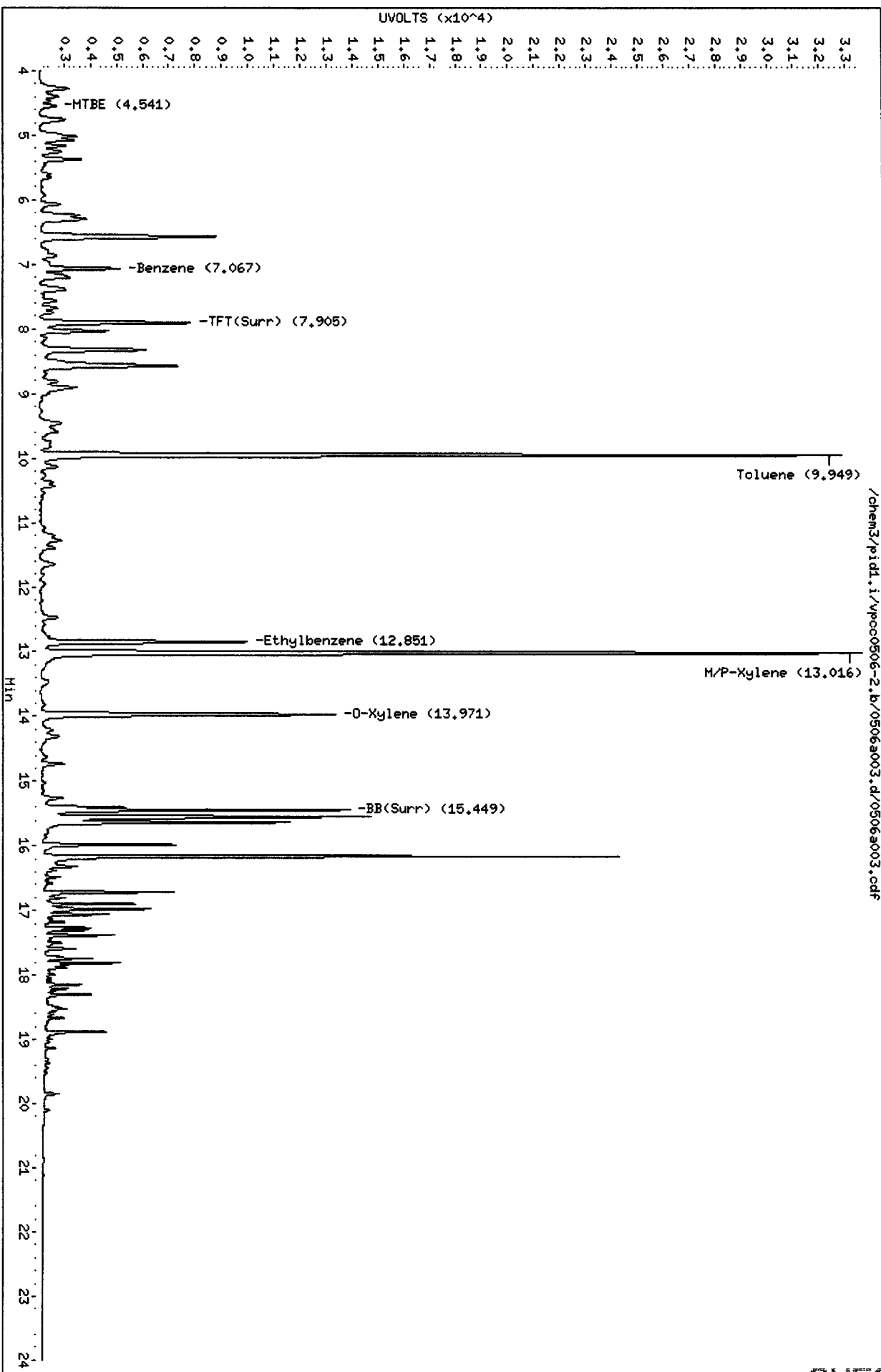


/chem3/pid1.i/vpcc0506-1.b/0506a003.d/0506a003.cdf

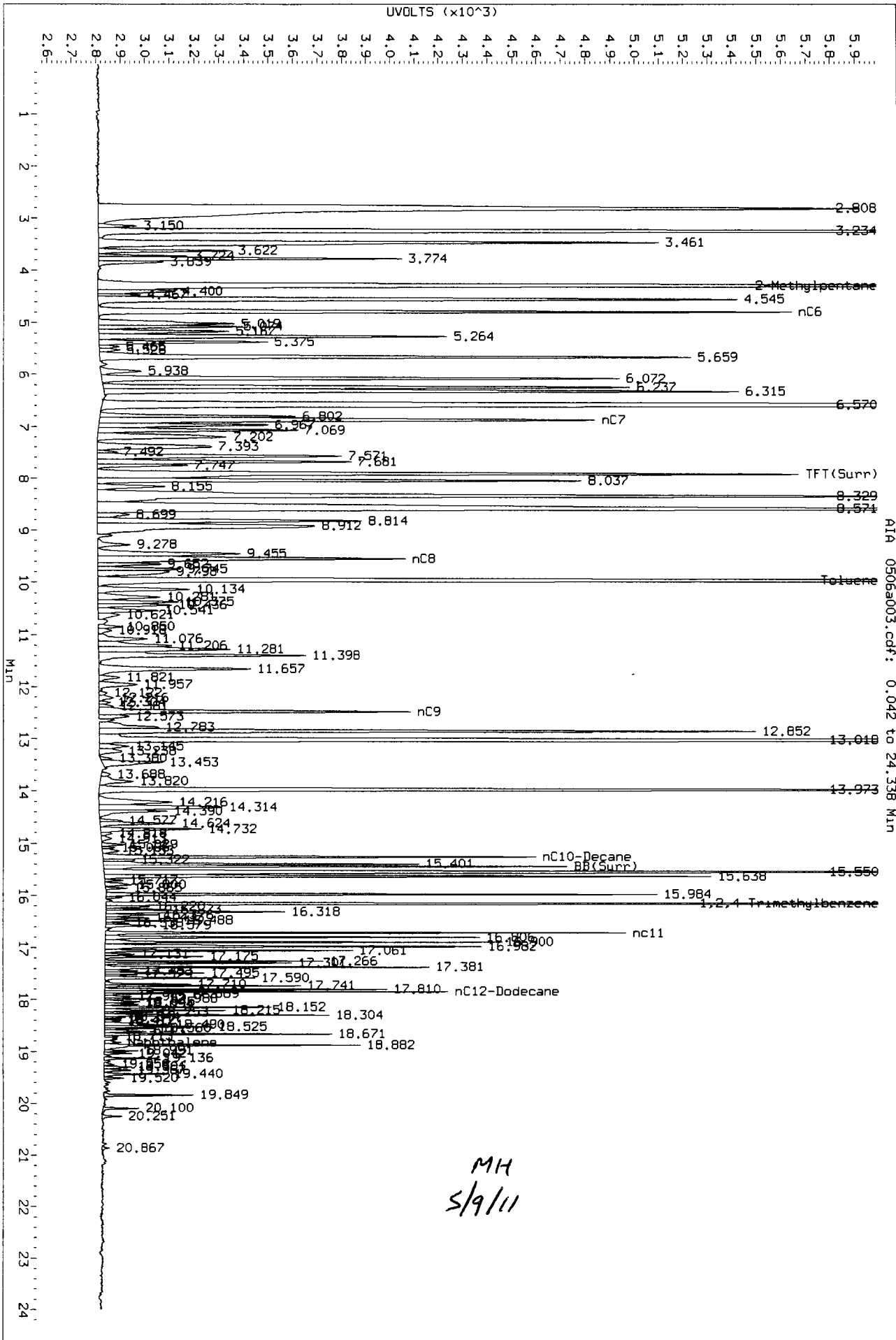
Data File: /chem3/pid1.i/vpcc0506-2.b/0506a003.d  
Date : 06-MAY-2011 06:42  
Client ID:  
Sample Info: GCAL 1

Column phase: RTX 502-2 PID

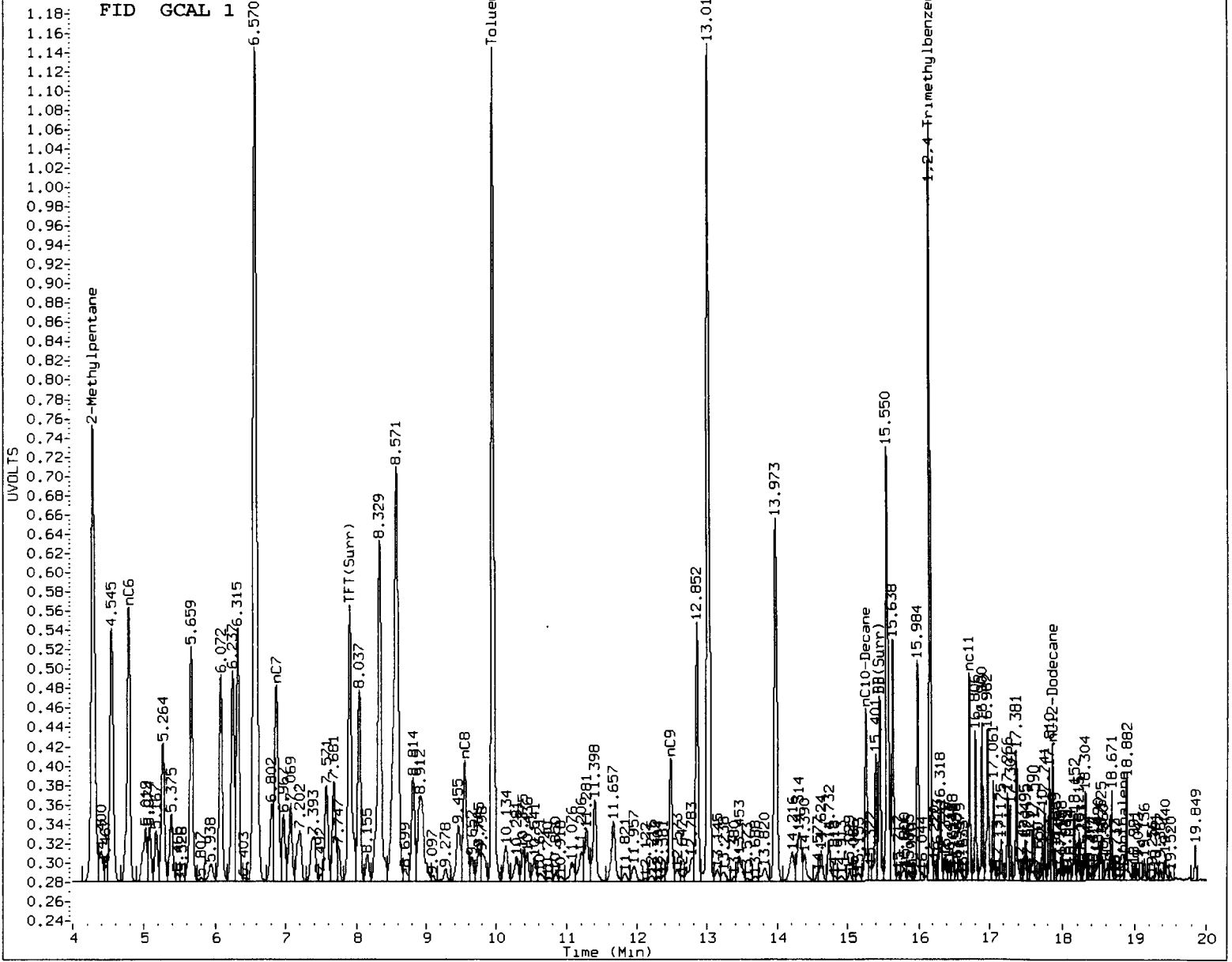
Instrument: pid1.i  
Operator: MH  
Column diameter: 0.18



Data File: /chem3/p1d1.1/vpcc0506-1.b/0506a003.d/0506a003.cdf  
Injection Date: 06-May-2011 06:42  
Instrument: p1d1.1  
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/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:

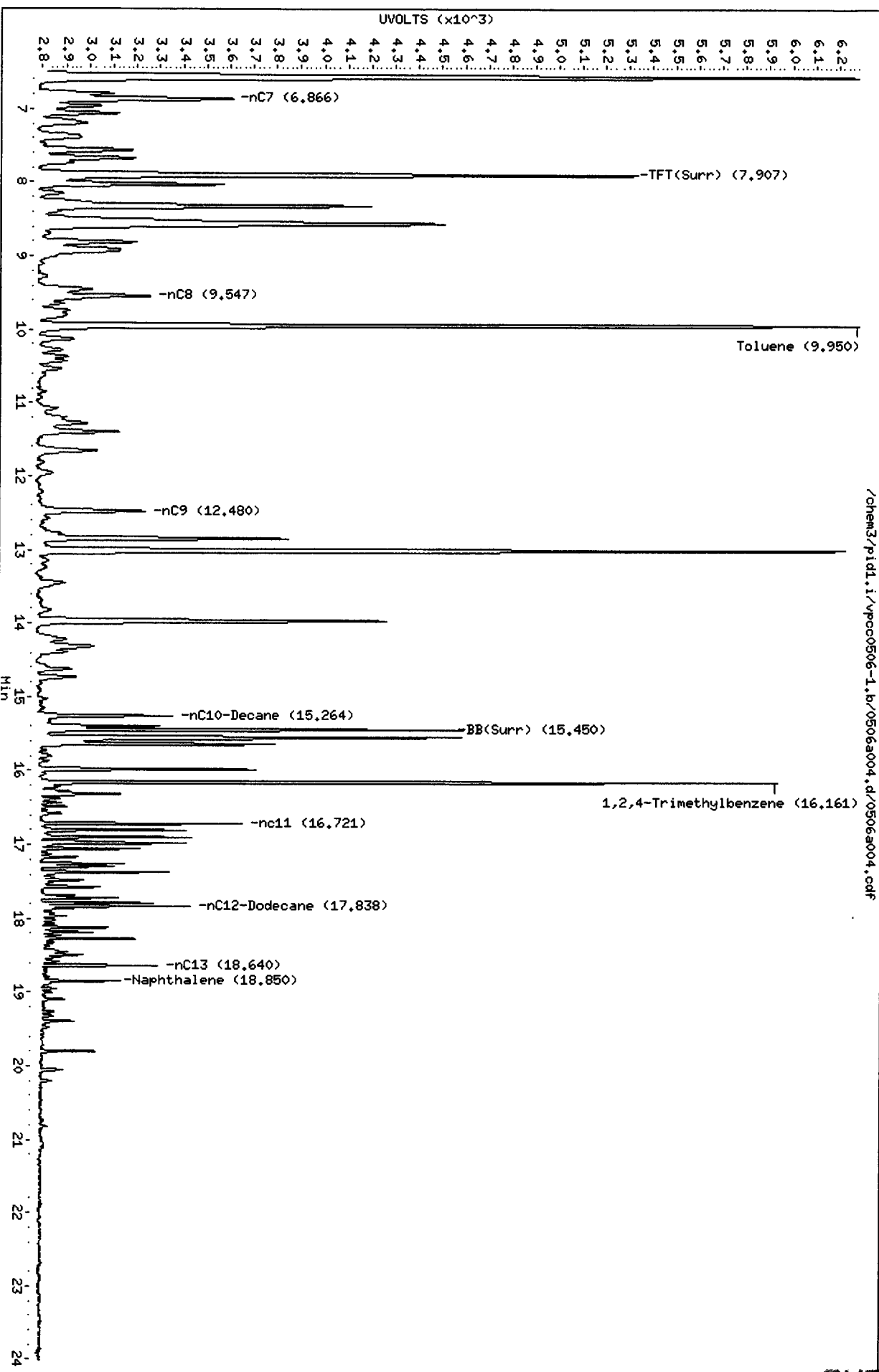
Sample Info: LCS0506

Instrument: pid1.i

Page 1

Column phase: RTX 502-2 FID

Operator: HH  
Column diameter: 0.18



/chem3/pid1.i/vpcc0506-1.b/0506a004.d/0506a004.cdf

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

Date: 06-MAY-2011 07:11

Client ID:

Sample Info: LCS0506

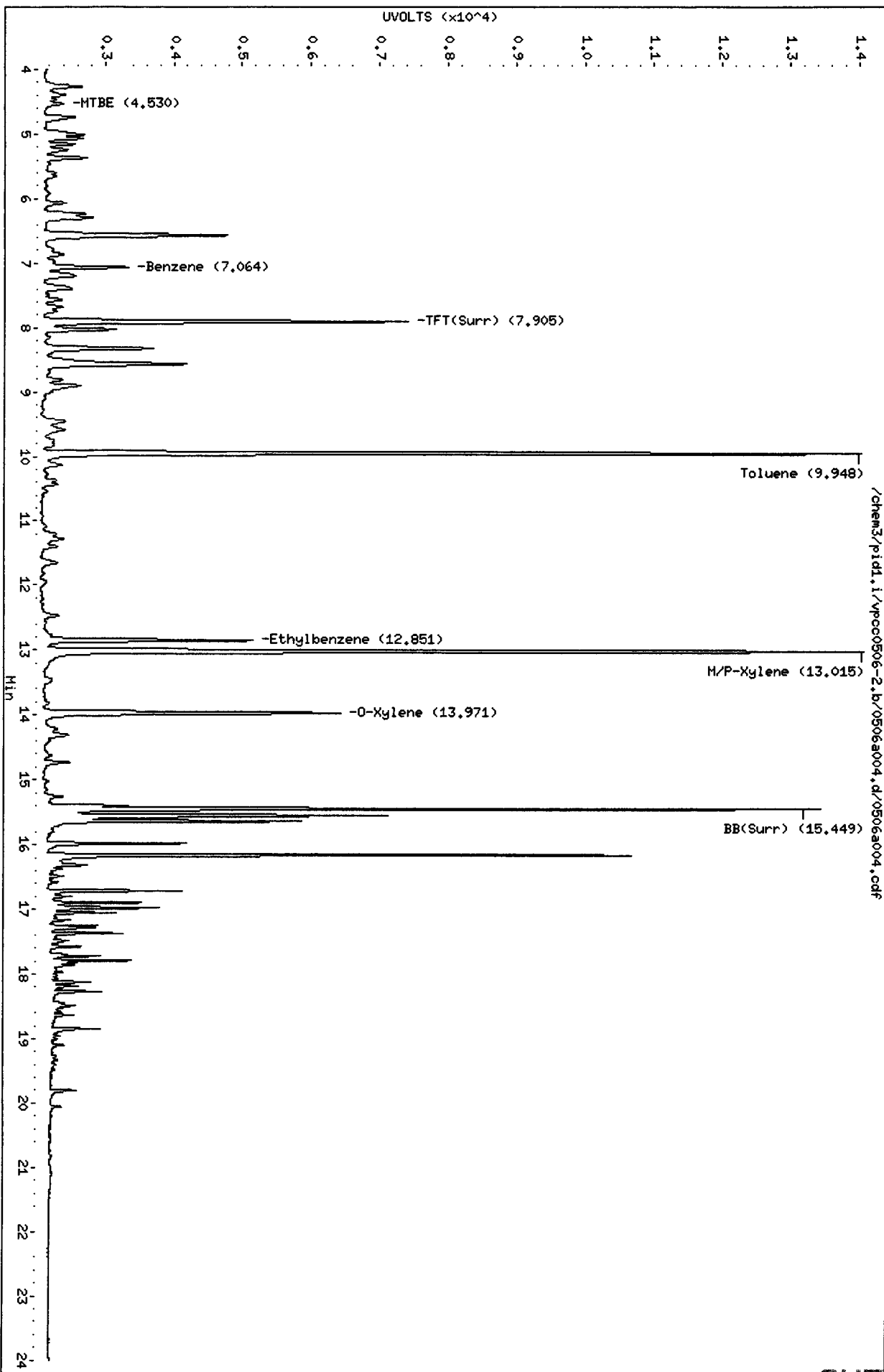
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

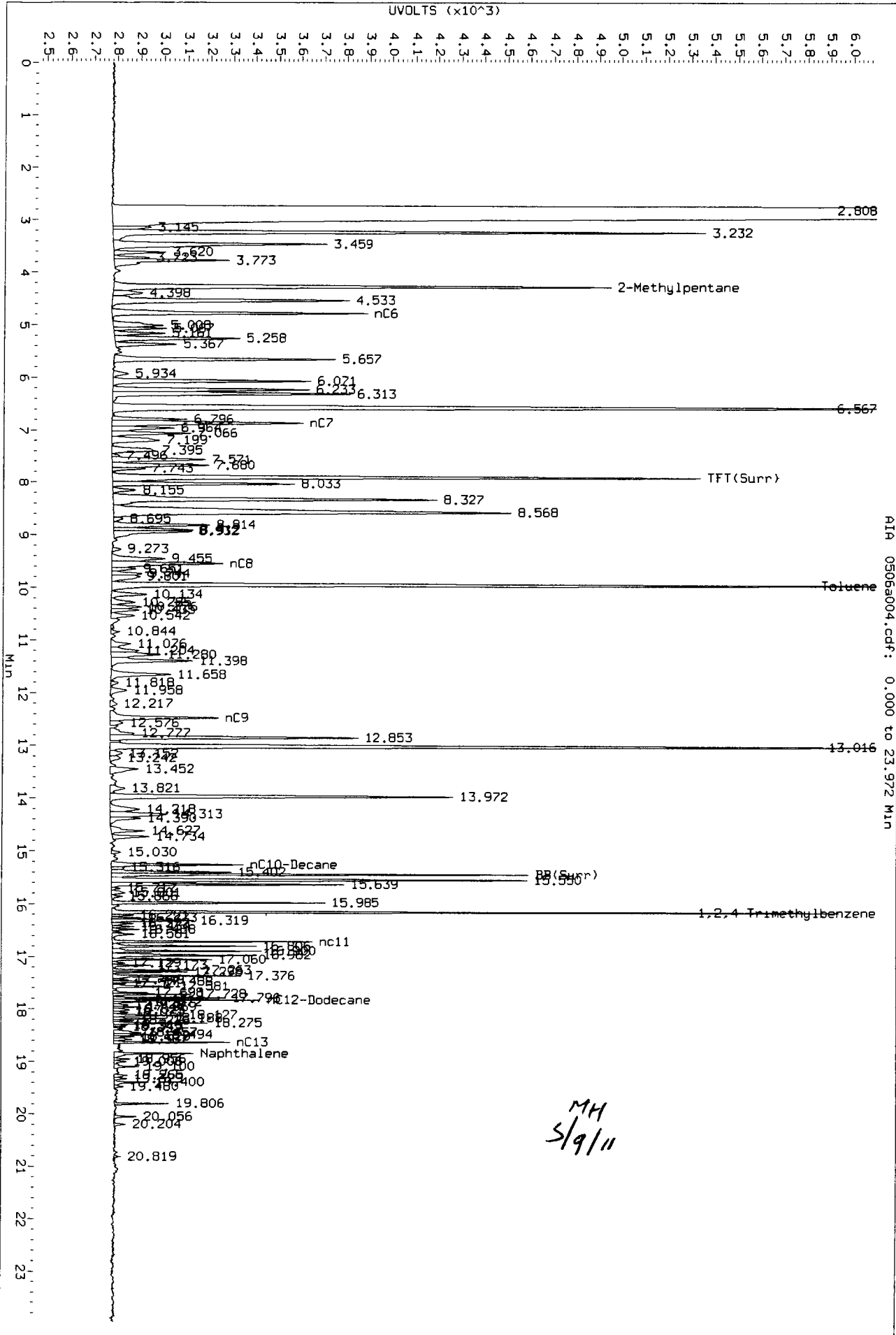
Page 1



SU53: 01188

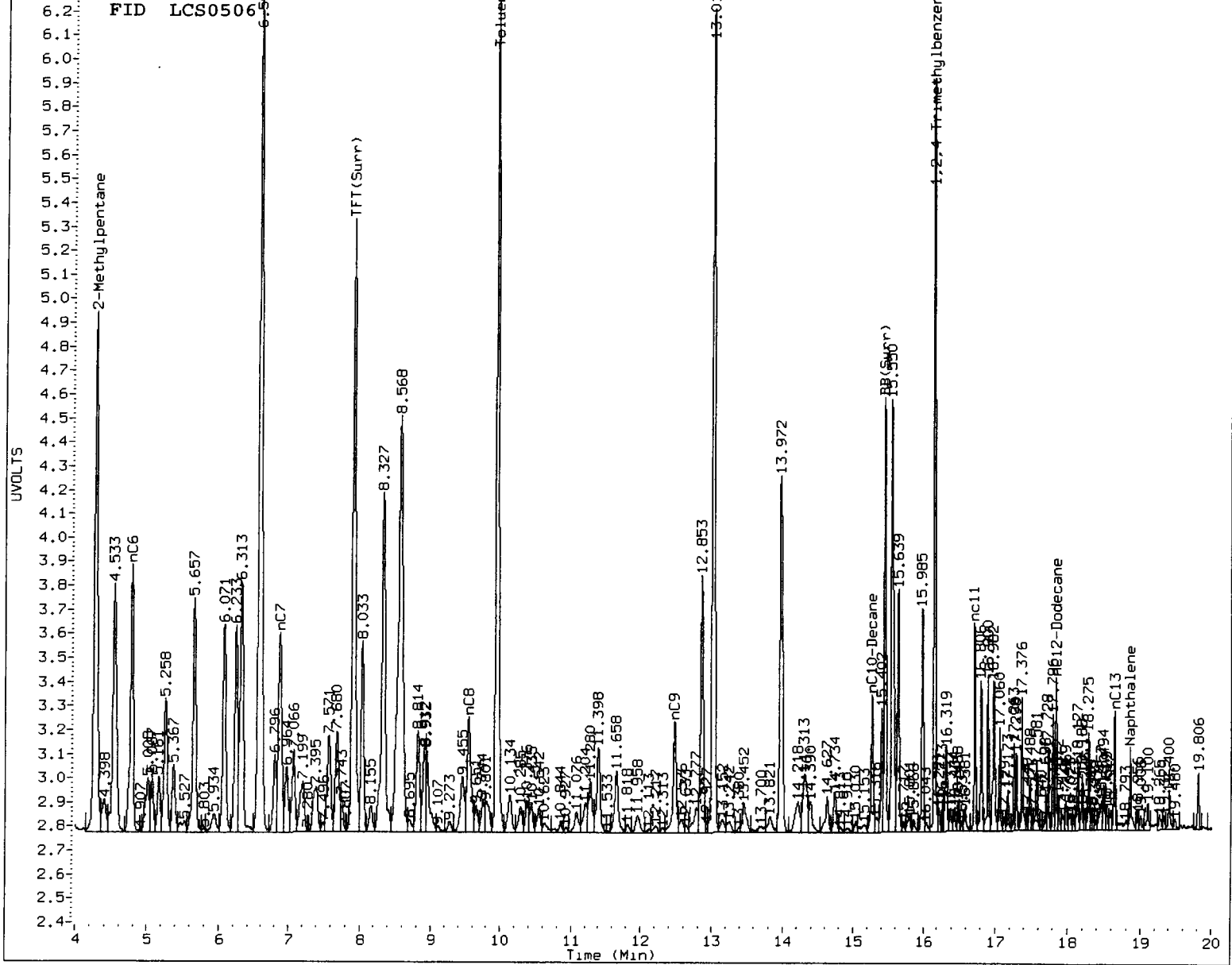


Data File: /chem3/pid1.1/vpcc0506-1.b/0506a004.d/0506a004.cdf  
Injection Date: 06-MAY-2011 07:11  
Instrument: pid1.1  
Client Sample ID:



AIA 0506a004.cdf: 0.000 to 23.972 Min

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/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:

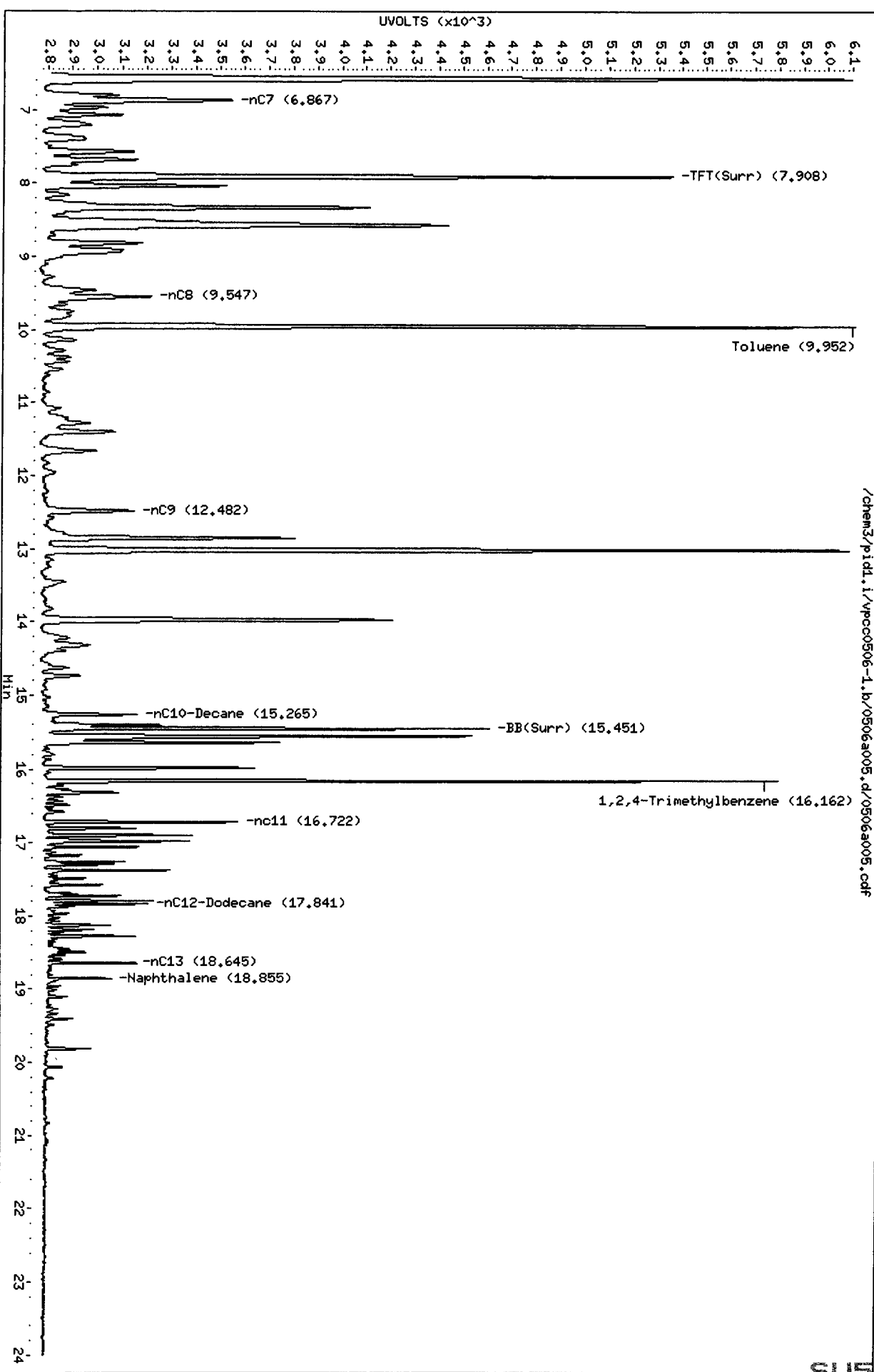
Sample Info: LCSD0506

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18



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

Date: 06-MAY-2011 07:41

Client ID:

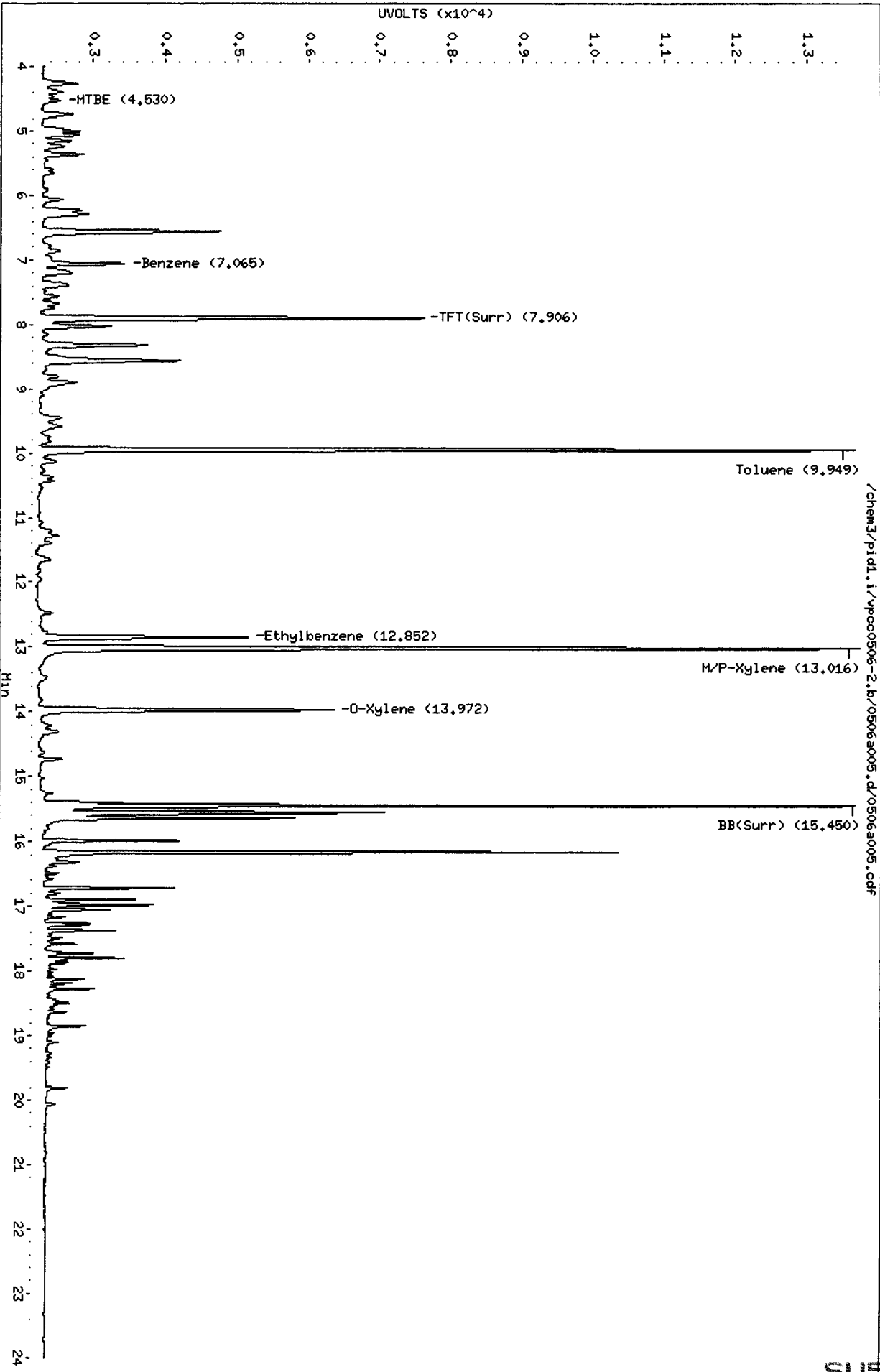
Sample Info: LCSD0506

Instrument: pid1.i

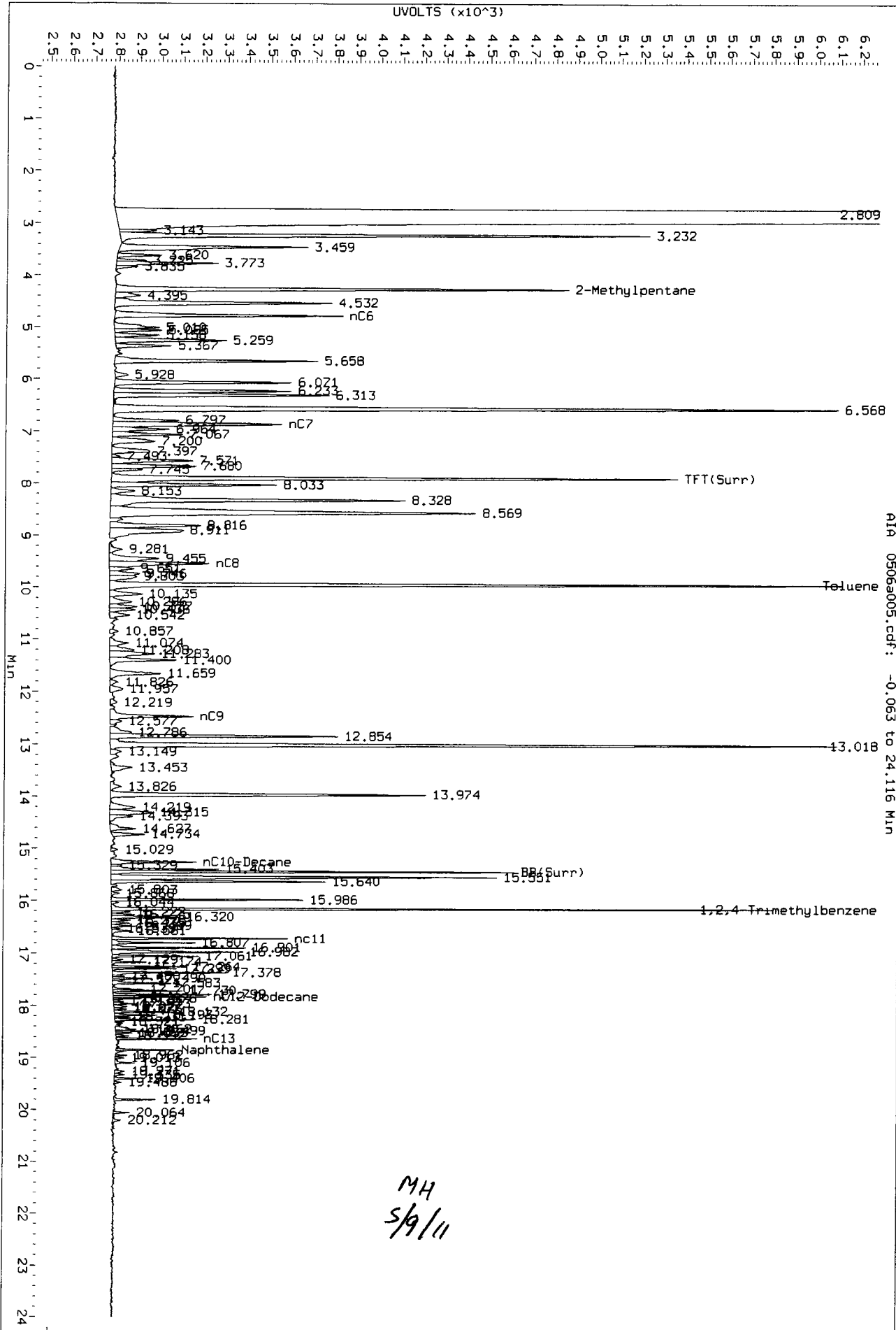
Page 1

Column phase: RTX 502-2 PID

Operator: MH  
Column diameter: 0.18



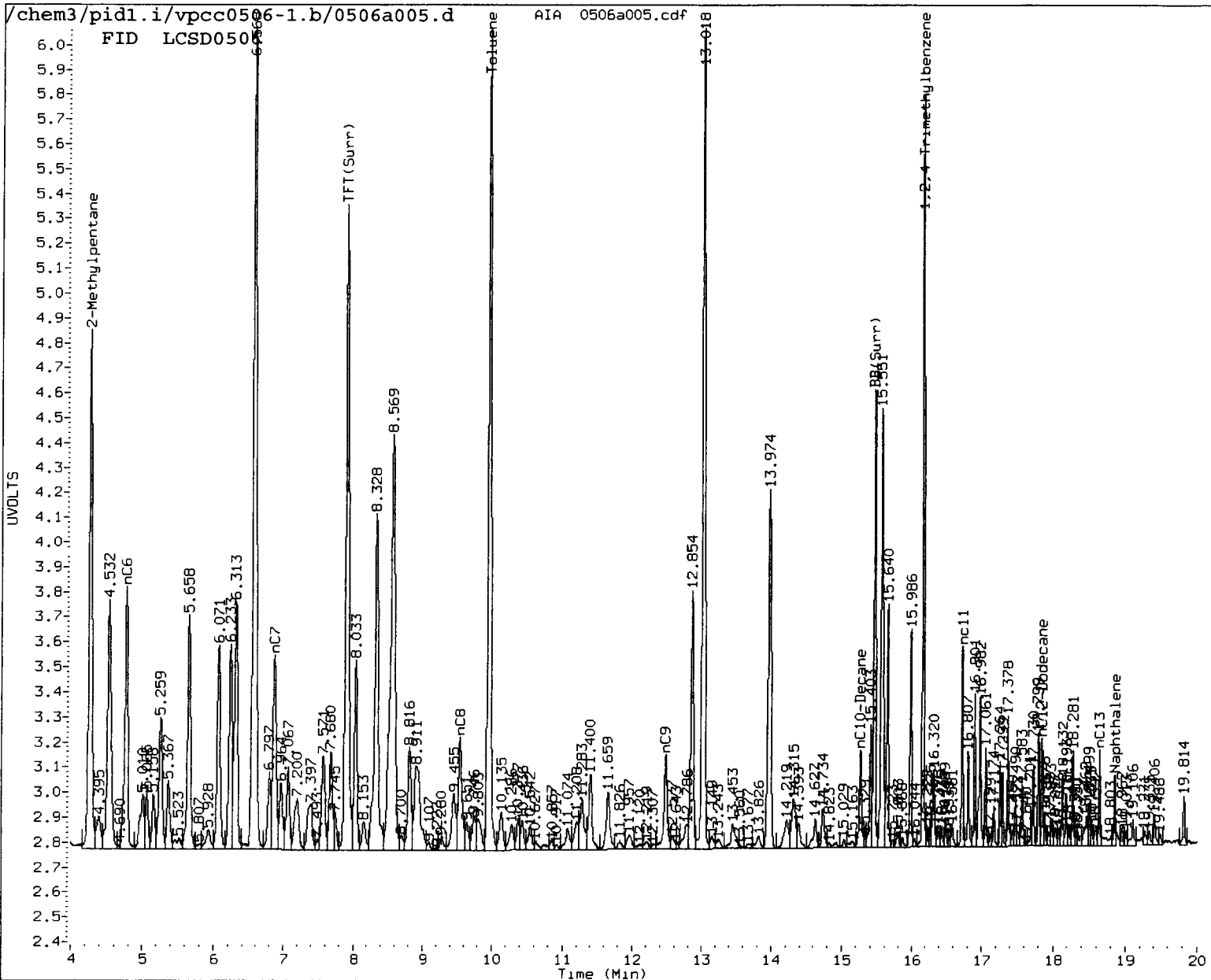
Data File: /chem3/pwd1\_1/vpcc0506-1.b/0506a005.d/0506a005.cdf  
Injection Date: 06-MAY-2011 07:41  
Instrument: pld1.1  
Client Sample ID:



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 08:10

Client ID:

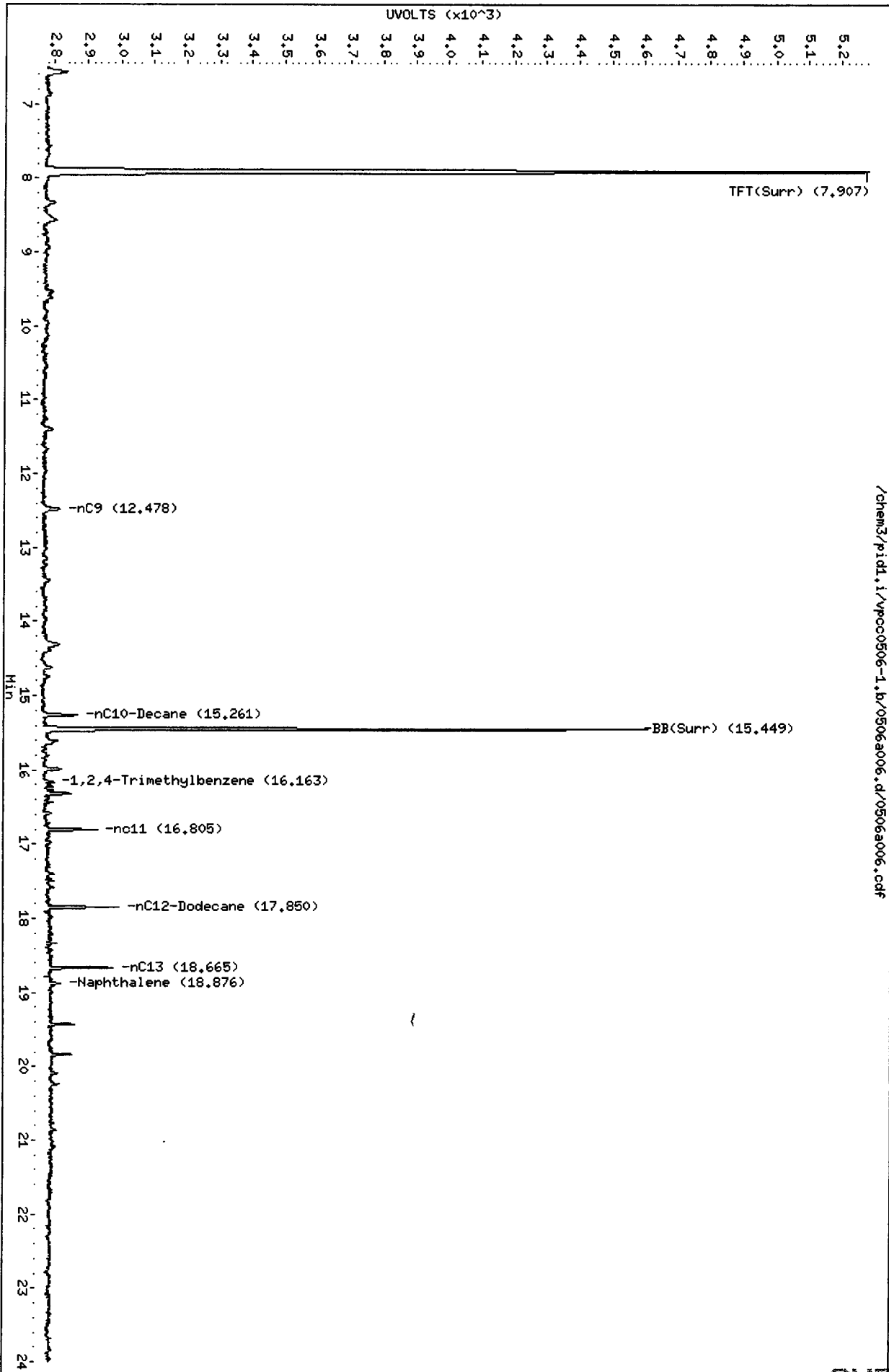
Sample Info: HB0506

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

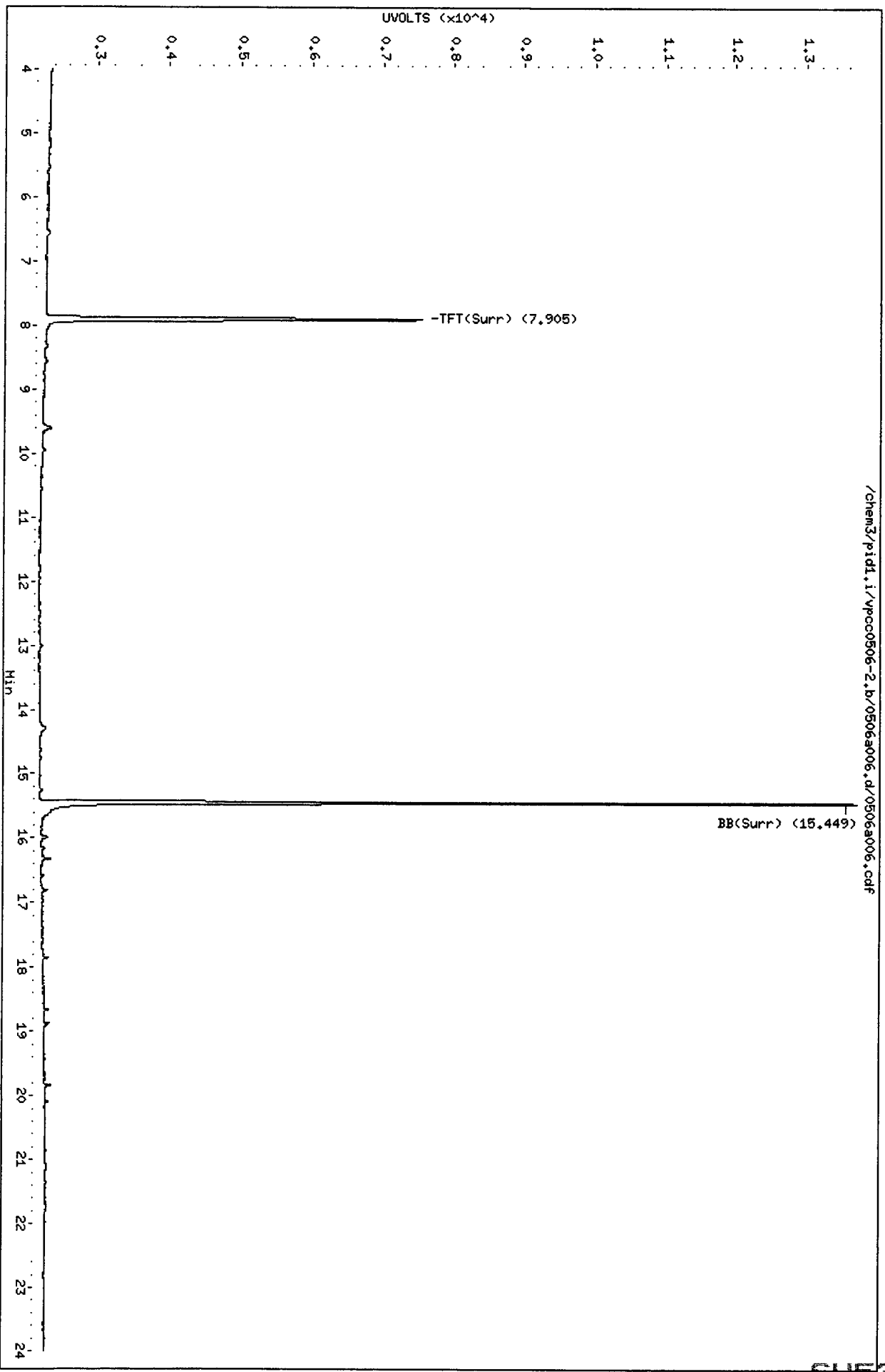


/chem3/pid1.i/vpcc0506-1.b/0506a006.d/0506a006.cdf

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.i  
Operator: MH  
Column diameter: 0.18



/chem3/pid1.i/vpcc0506-2.b/0506a006.d/0506a006.cdf

5/6/11  
MH

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a013.d    ARI ID: SU53A  
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a013.d    Client ID: MW5042811  
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m            Injection Date: 06-MAY-2011 11:55  
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	2532	34512	97.0	TFT(Surr)
15.451	0.001	1843	15281	97.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 ( 9.85 to 17.94)	319505	3800	0.012
8015B 2MP-TMB ( 4.17 to 16.26)	652210	2868	0.004
AK101 nC6-nC10 ( 4.68 to 15.16)	527526	1723	0.003
NWTPHG Tol-Nap ( 9.85 to 18.95)	340084	4774	0.014

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.906	0.002	5282	94.4	TFT(Surr)
15.450	0.001	11464	96.4	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

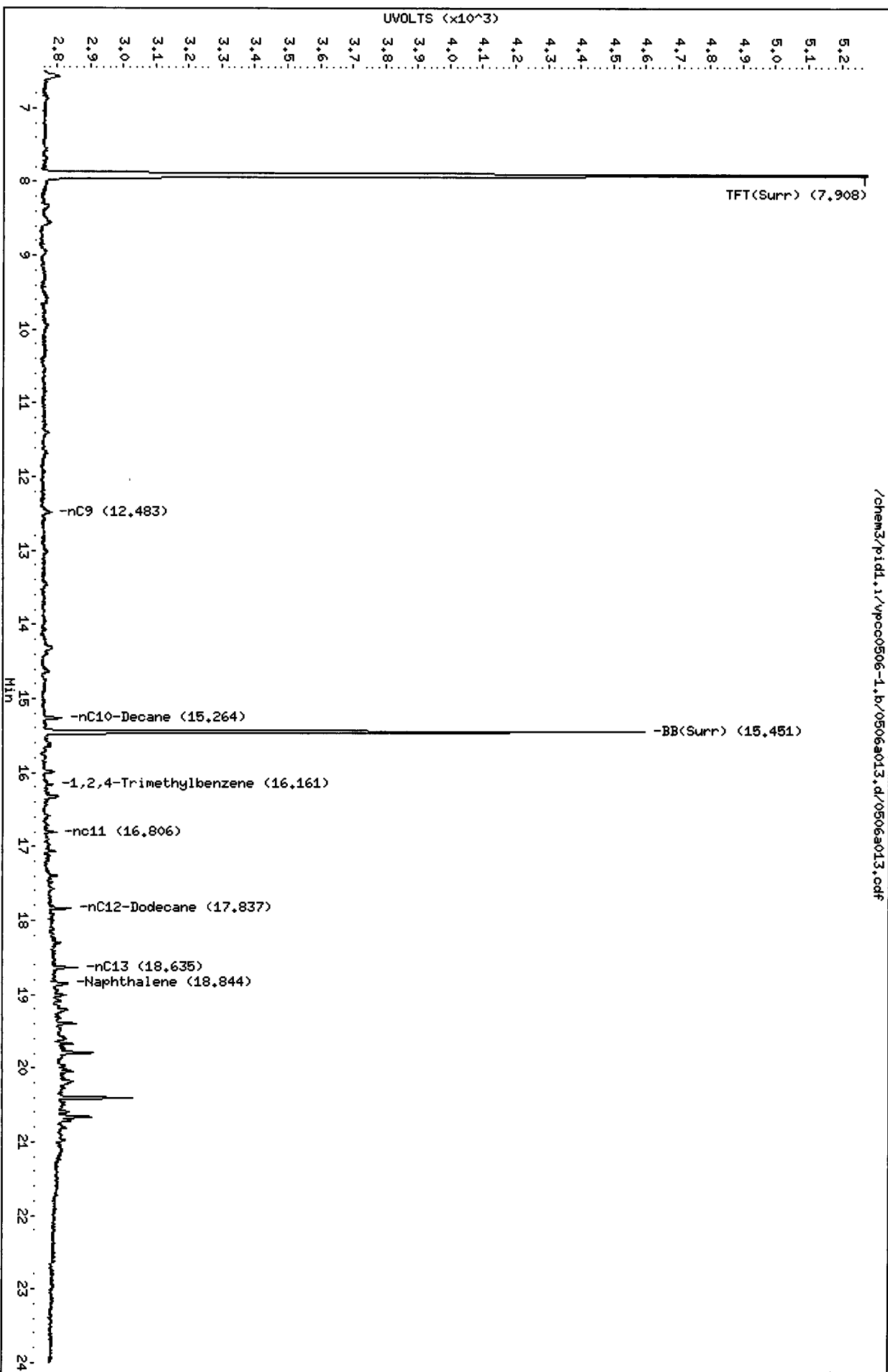
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a013.d  
Date: 06-MAY-2011 11:55  
Client ID: MM5042811  
Sample Info: SUG3A

Column phase: RTX 502-2 FID

/chem3/pid1.i/vpcc0506-1.b/0506a013.d/0506a013.cdf

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



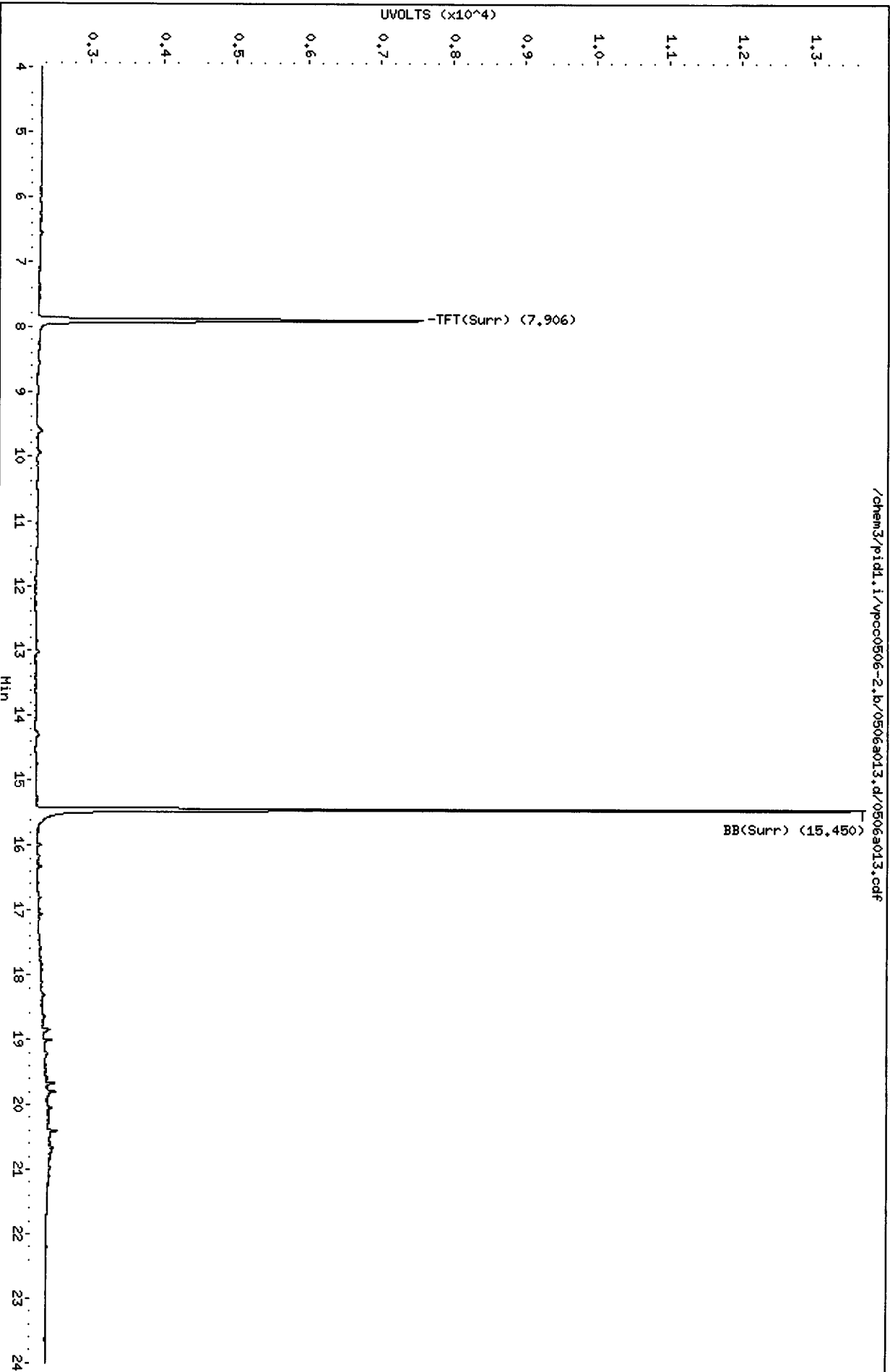
Data File: /chem3/pid1.i/vpcc0506-2.b/0506a013.d  
Date: 06-MAY-2011 11:55  
Client ID: MMS042811  
Sample Info: SUG3A

Instrument: pid1.i

Page 1

Column phase: RTX 502-2 PID

Operator: HH  
Column diameter: 0.18



SUG3 : 01201

24H  
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

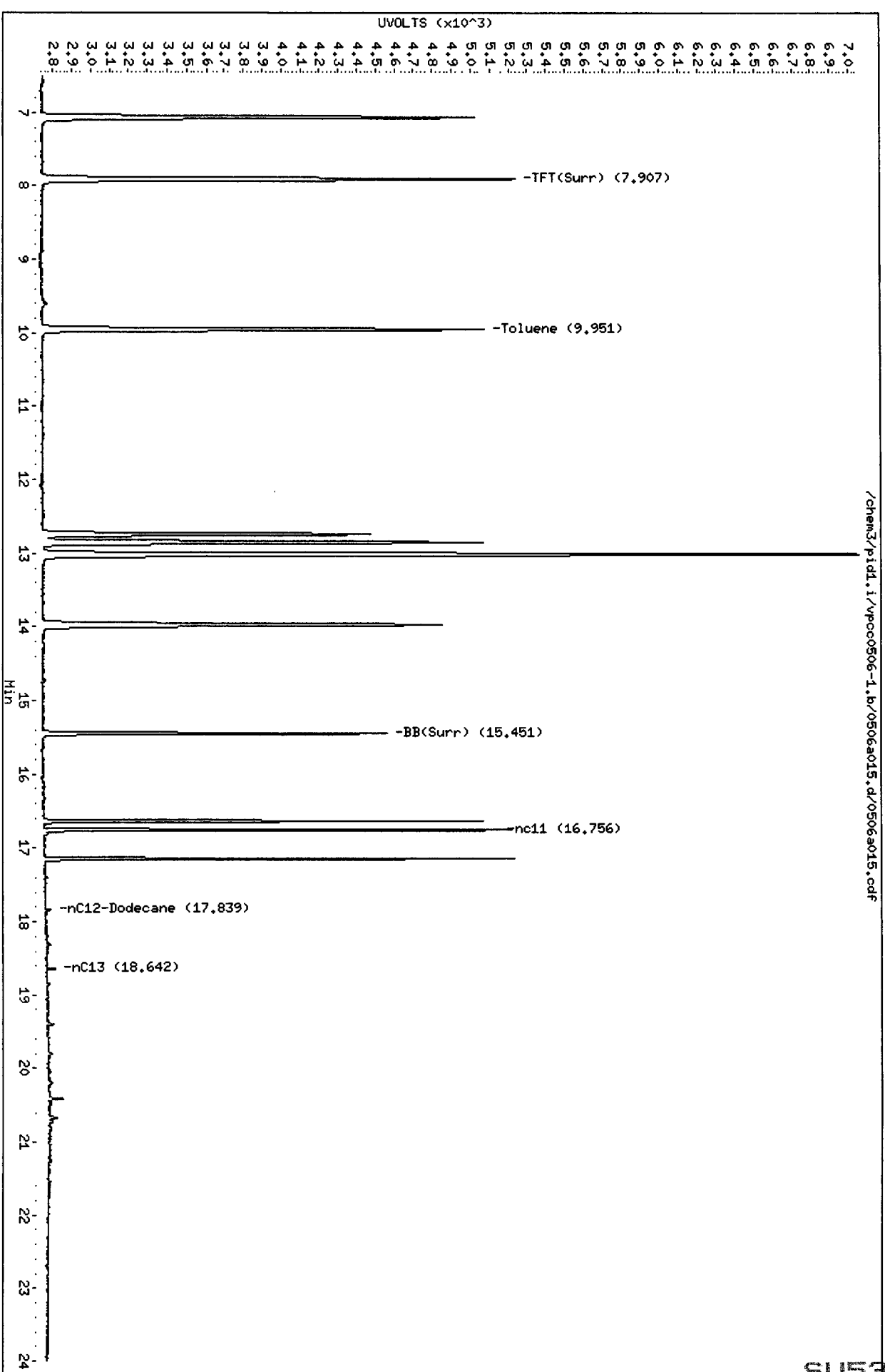
A Indicates Peak Area was used for quantitation instead of Height

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: BCL 2

Column phase: RTX 502-2 FID

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

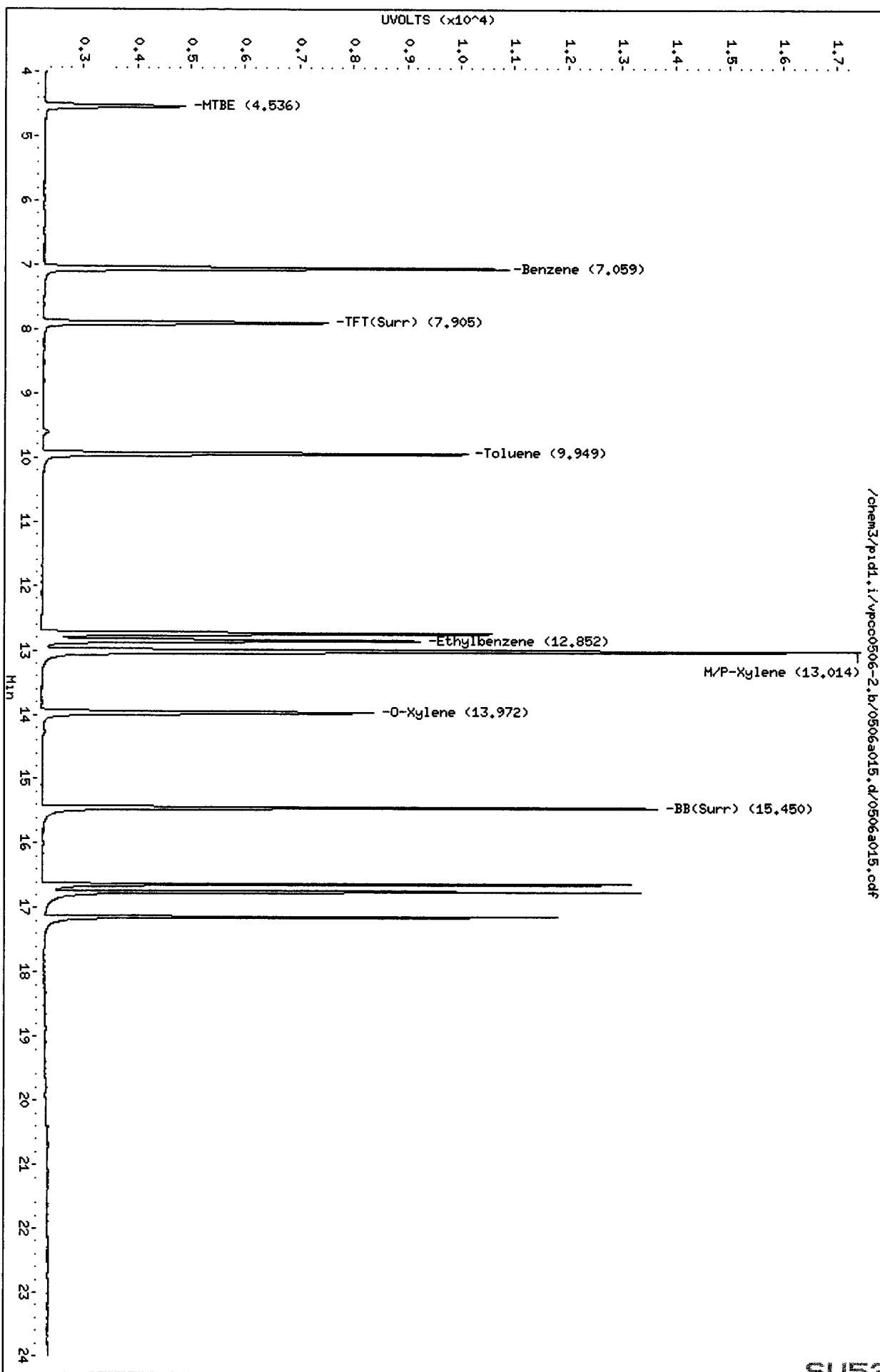


/chem3/pid1.i/vpcc0506-1.b/0506a015.d/0506a015.cdf

Data File: /chem3/pid1.i/vpcc0506-2.b/0506a015.d  
Date: 06-MAY-2011 12:53  
Client ID:  
Sample Info: BQAL 2

Column phase: RTX 502-2 PID

Instrument: pid1.i  
Operator: NH  
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

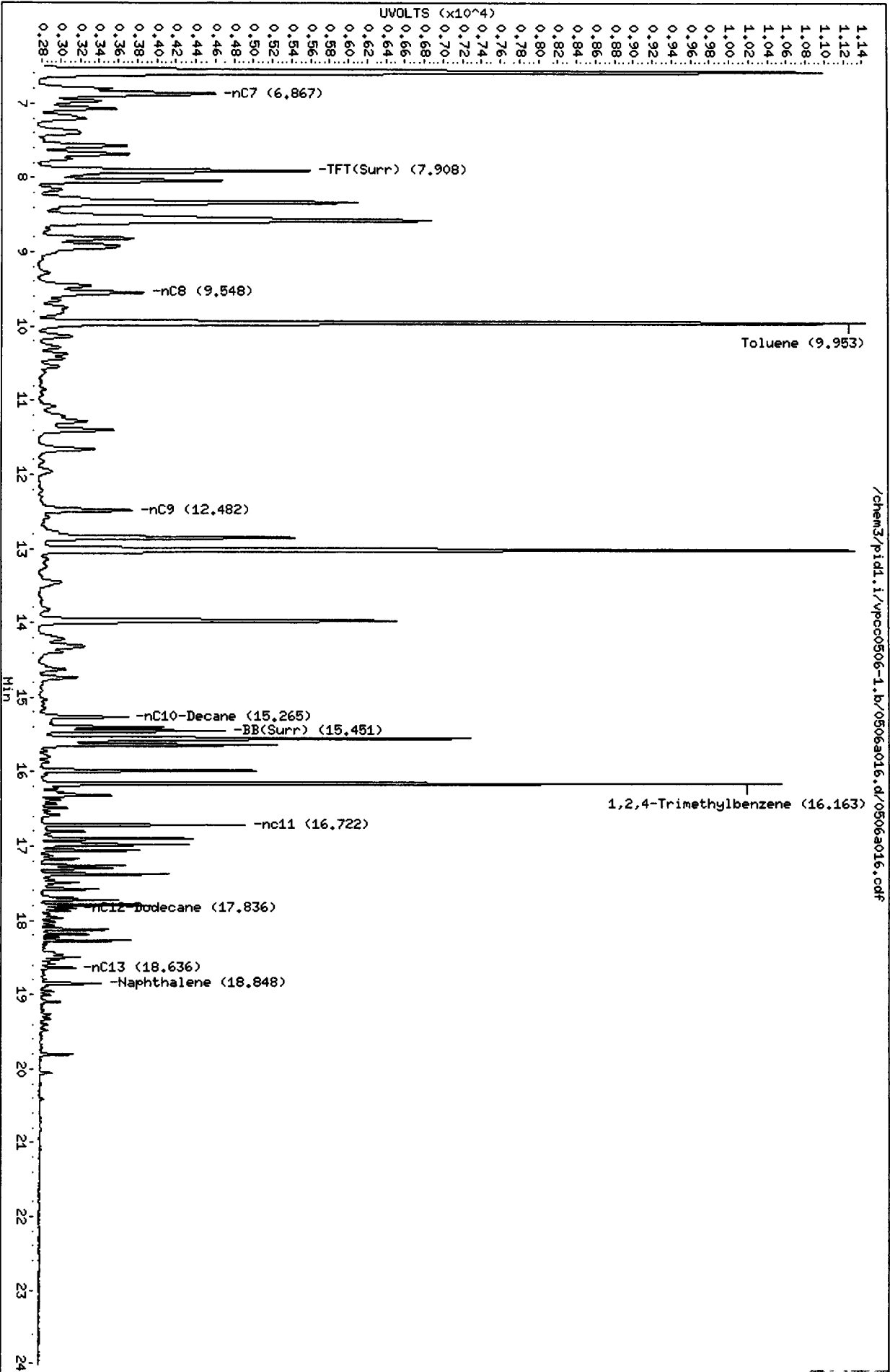
Data File: /chem3/pid1.1/vpcc0506-1.b/0506a016.d  
Date: 06-MAY-2011 13:22  
Client ID:  
Sample Info: CCAL 2

Instrument: pid1.i

Page 1

Column phase: RTX 502-2 FID

Operator: HH  
Column diameter: 0.18



Data File: /chem3/pid1.1/vpcc0506-2.b/0506a016.d

Date : 06-MAY-2011 13:22

Client ID:

Sample Info: GCAL 2

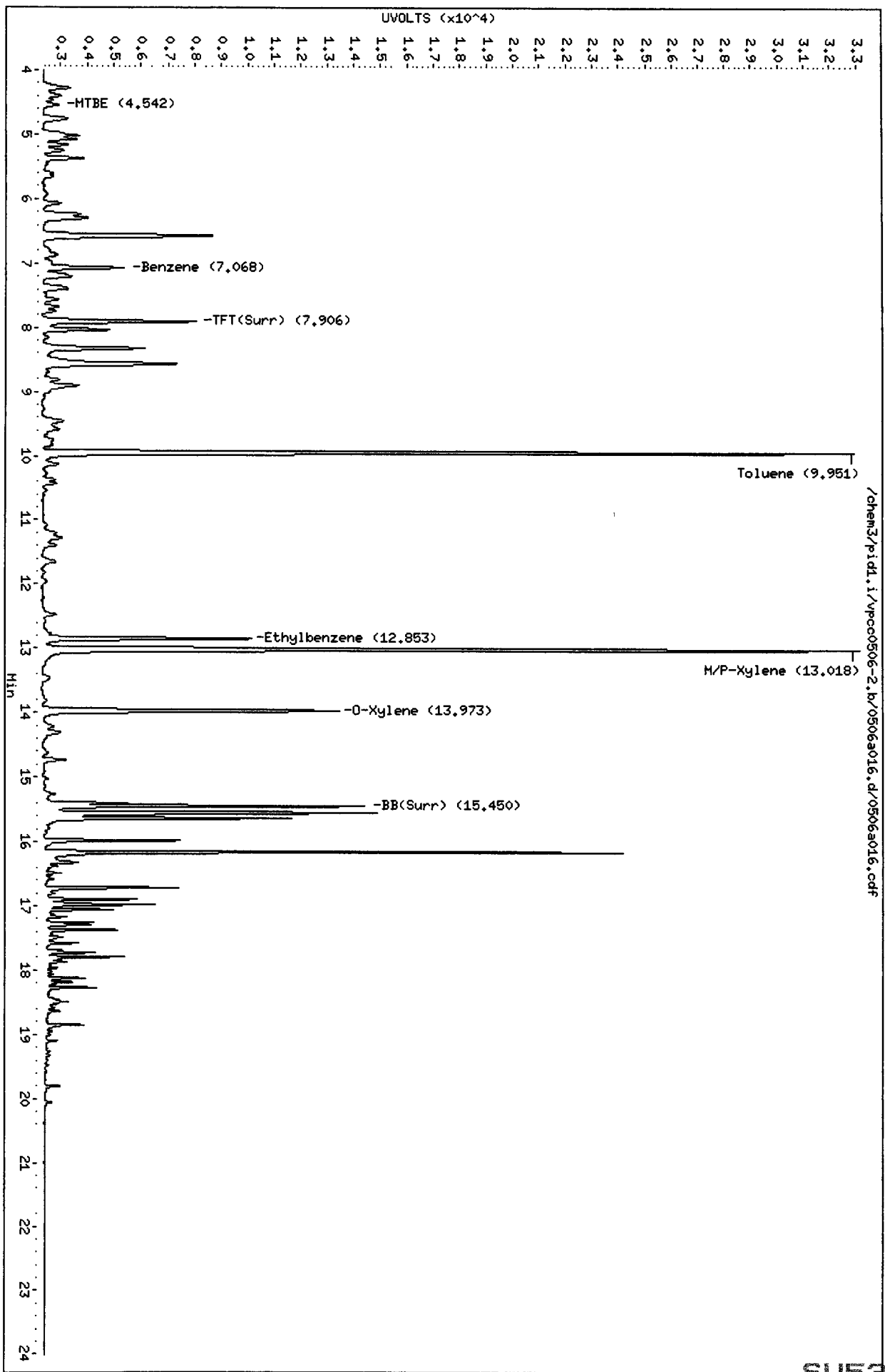
Column phase: RTX 502-2 PID

Instrument: pid1.i

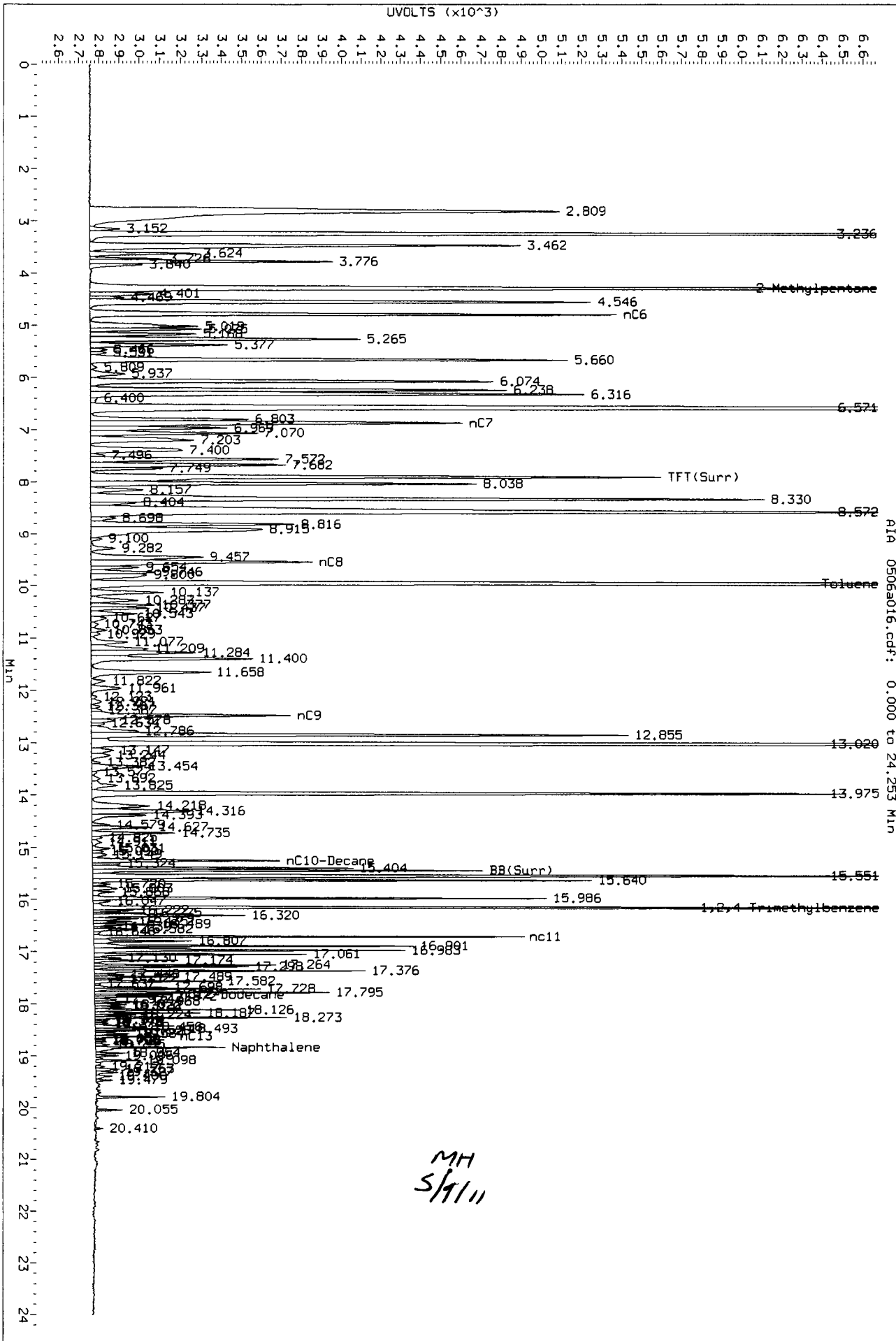
Operator: HH

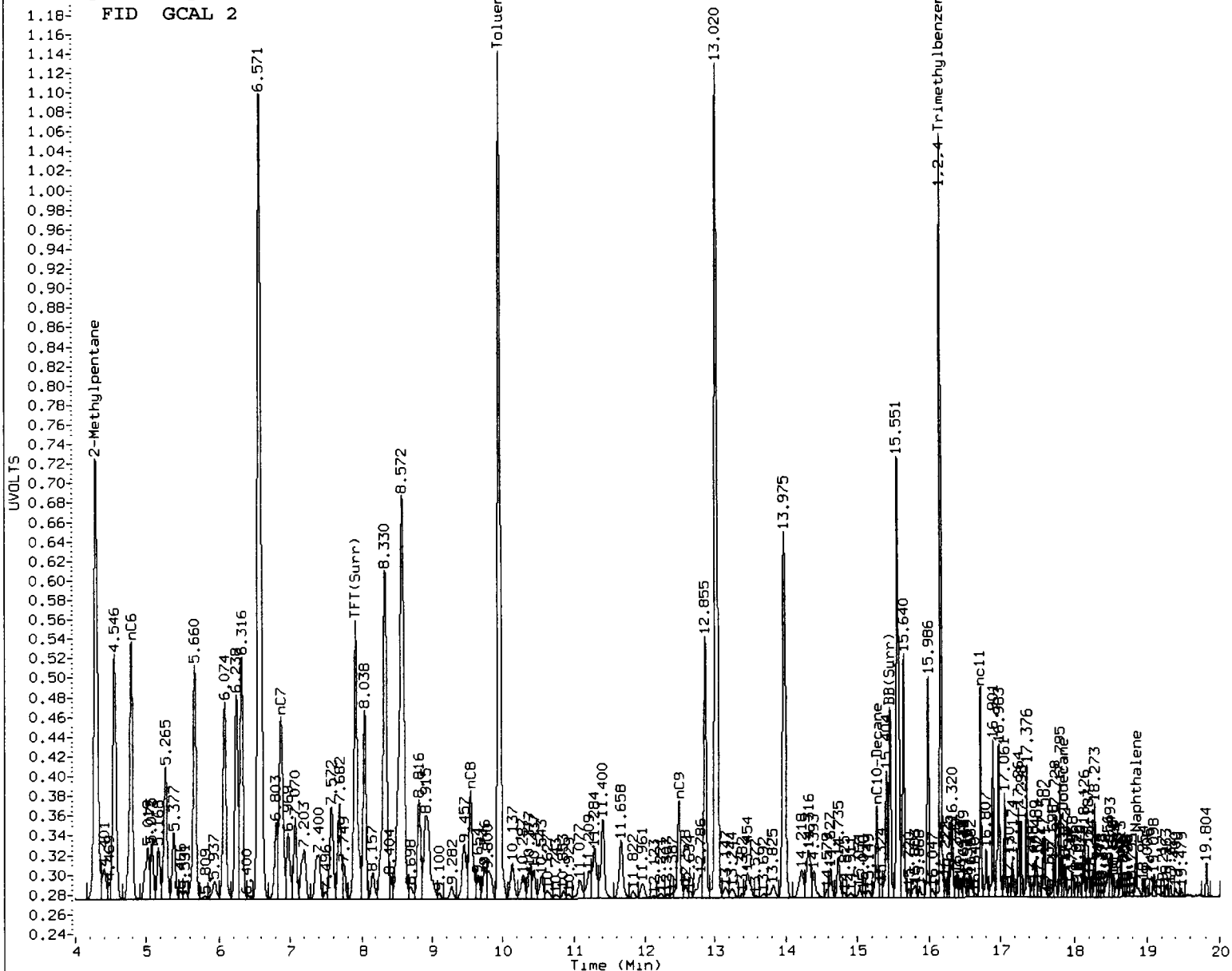
Column diameter: 0.18

/chem3/pid1.1/vpcc0506-2.b/0506a016.d/0506a016.cdf



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:





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/0506a017.d      ARI ID: SU53B  
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a017.d      Client ID: MW15042811  
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m              Injection Date: 06-MAY-2011 13:51  
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	0.004	2563	34798	98.2	TFT(Surr)
15.451	0.002	1869	15560	99.0	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 ( 9.85 to 17.94)	319505	16441	0.051
8015B 2MP-TMB ( 4.17 to 16.26)	652210	18097	0.028
AK101 nC6-nC10 ( 4.68 to 15.16)	527526	13157	0.025
NWTPHG Tol-Nap ( 9.85 to 18.95)	340084	17224	0.051

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	5397	96.4	TFT(Surr)
15.451	0.002	11624	97.8	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
ND	---	---	---	Benzene
9.951	0.003	208	0.61	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/0506a017.d

Date: 06-MAY-2011 13:51

Client ID: MM15042811

Sample Info: SU53B

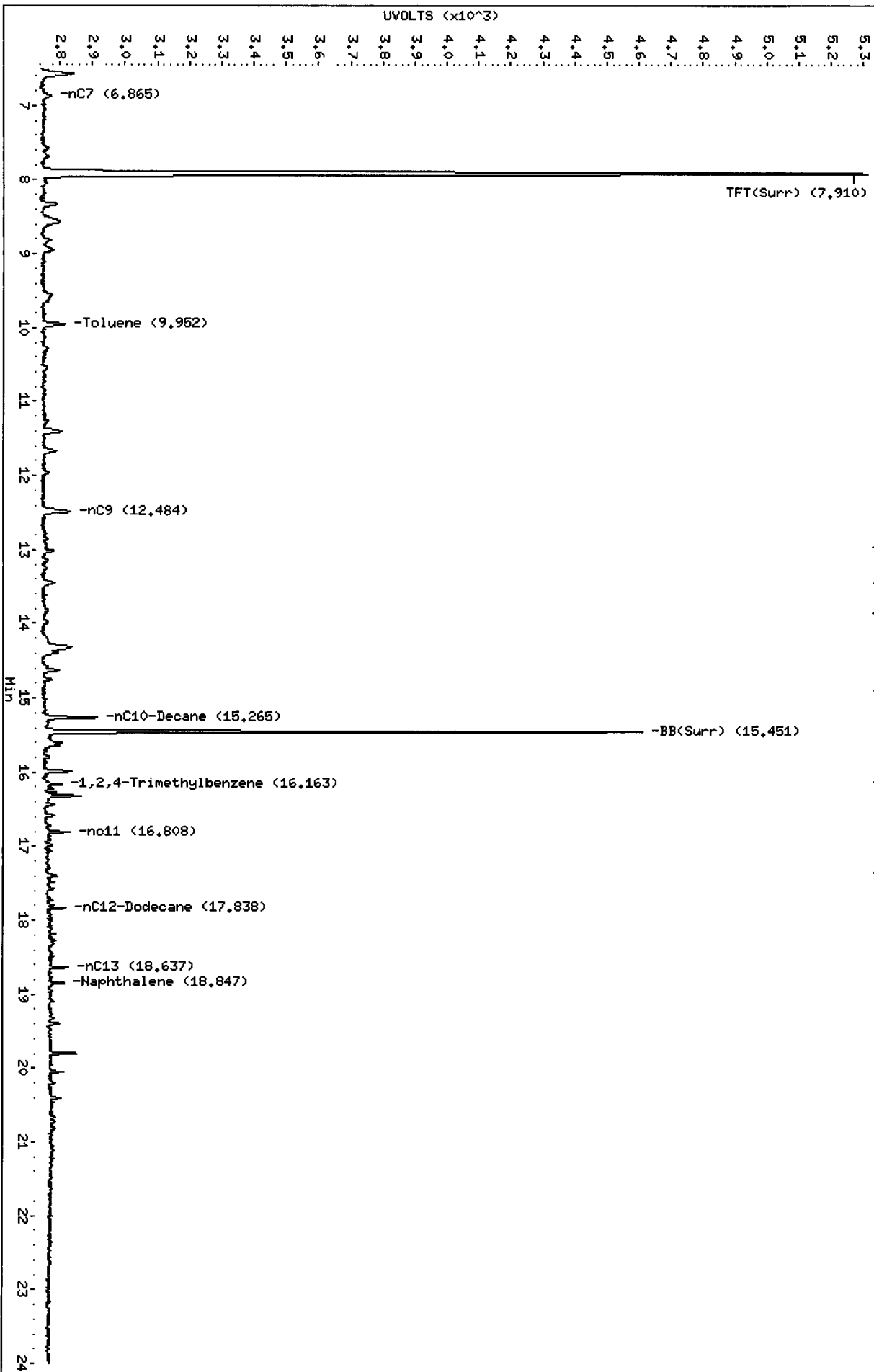
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

Column phase: RTX 502-2 FID

/chem3/pid1.i/vpcc0506-1.b/0506a017.d/0506a017.cdf



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a017.d

Date : 06-MAY-2011 13:51

Client ID: MM45042811

Sample Info: SU538

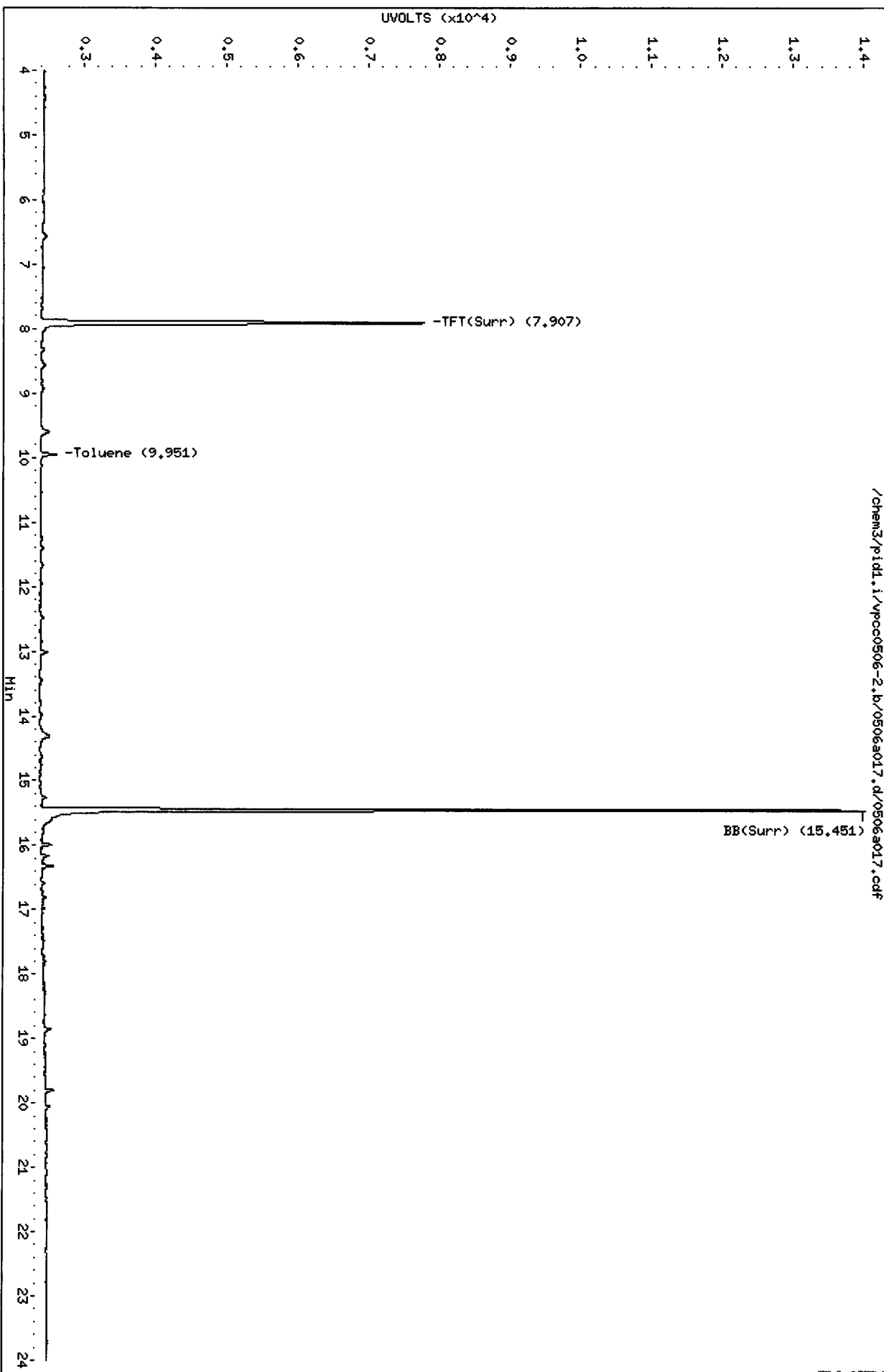
Column phase: RTX 502-2 PID

Page 1

Instrument: pid1.i

Operator: HH

Column diameter: 0.18



/chem3/pid1.i/vpcc0506-2.b/0506a017.d/0506a017.cdf



MH  
5/9/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a018.d      ARI ID: SU53C  
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a018.d      Client ID: MW4042811  
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m              Injection Date: 06-MAY-2011 14:20  
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	2563	34815	98.2	TFT(Surr)
15.450	0.000	1858	15613	98.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 ( 9.85 to 17.94)	319505	1156	0.004
8015B 2MP-TMB ( 4.17 to 16.26)	652210	192	0.000
AK101 nC6-nC10 ( 4.68 to 15.16)	527526	1	0.000
NWTPHG Tol-Nap ( 9.85 to 18.95)	340084	1395	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
--	----	-----	----	-----
7.907	0.003	5375	96.0	TFT(Surr)
15.450	0.001	11577	97.4	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

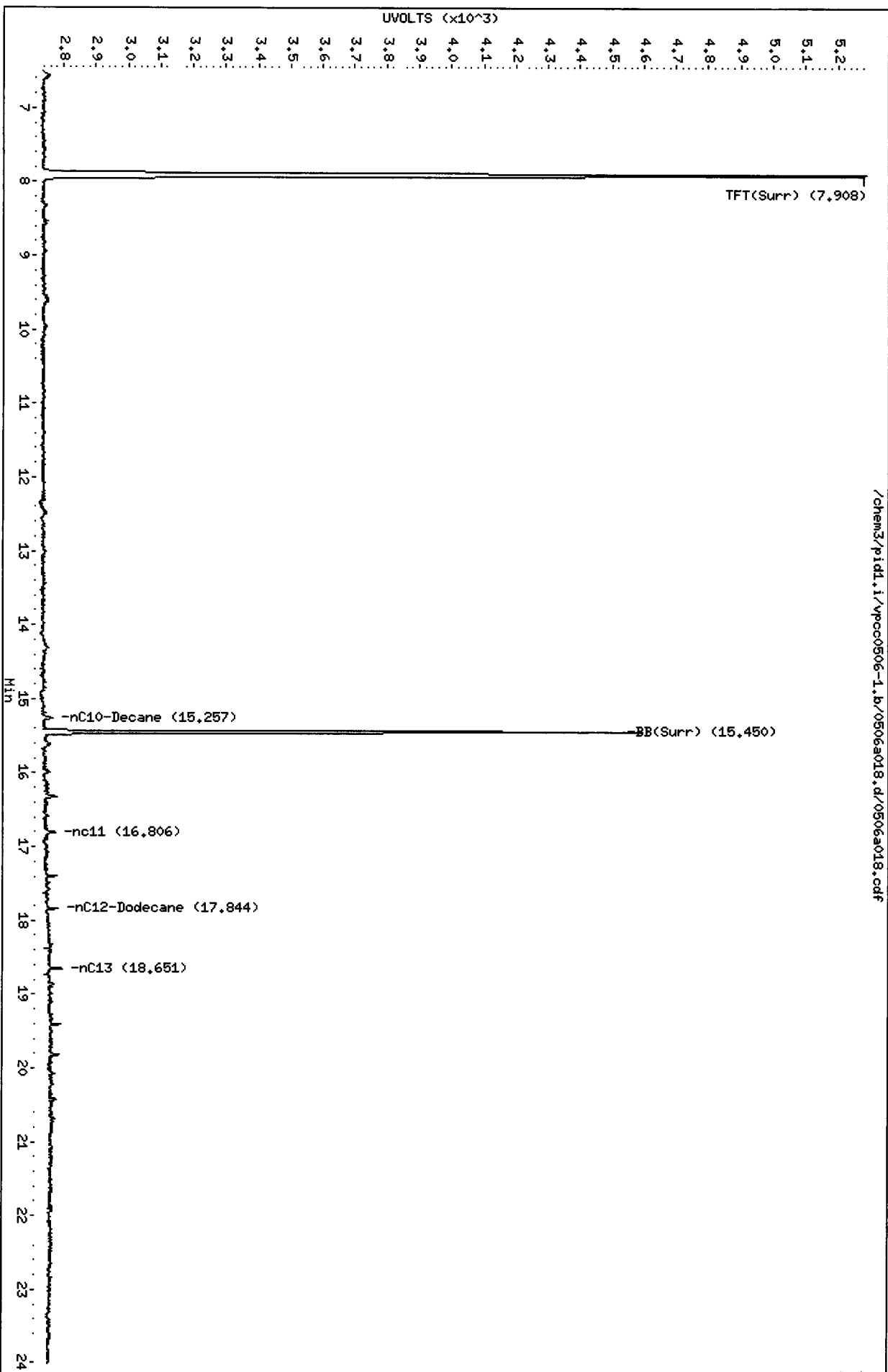
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Date: 06-MAY-2011 14:20  
Client ID: MM4042811  
Sample Info: SUG3C

Column phase: RTX 502-2 FID

/chem3/pid1.i/vpcc0506-1.b/0506a018.d/0506a018.cdf

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

Page 1



SU58 : 01214

Data File: /chem3/pid1.i/vpcc0506-2.b/0506a018.d

Date : 06-HAY-2011 14:20

Client ID: MW4042811

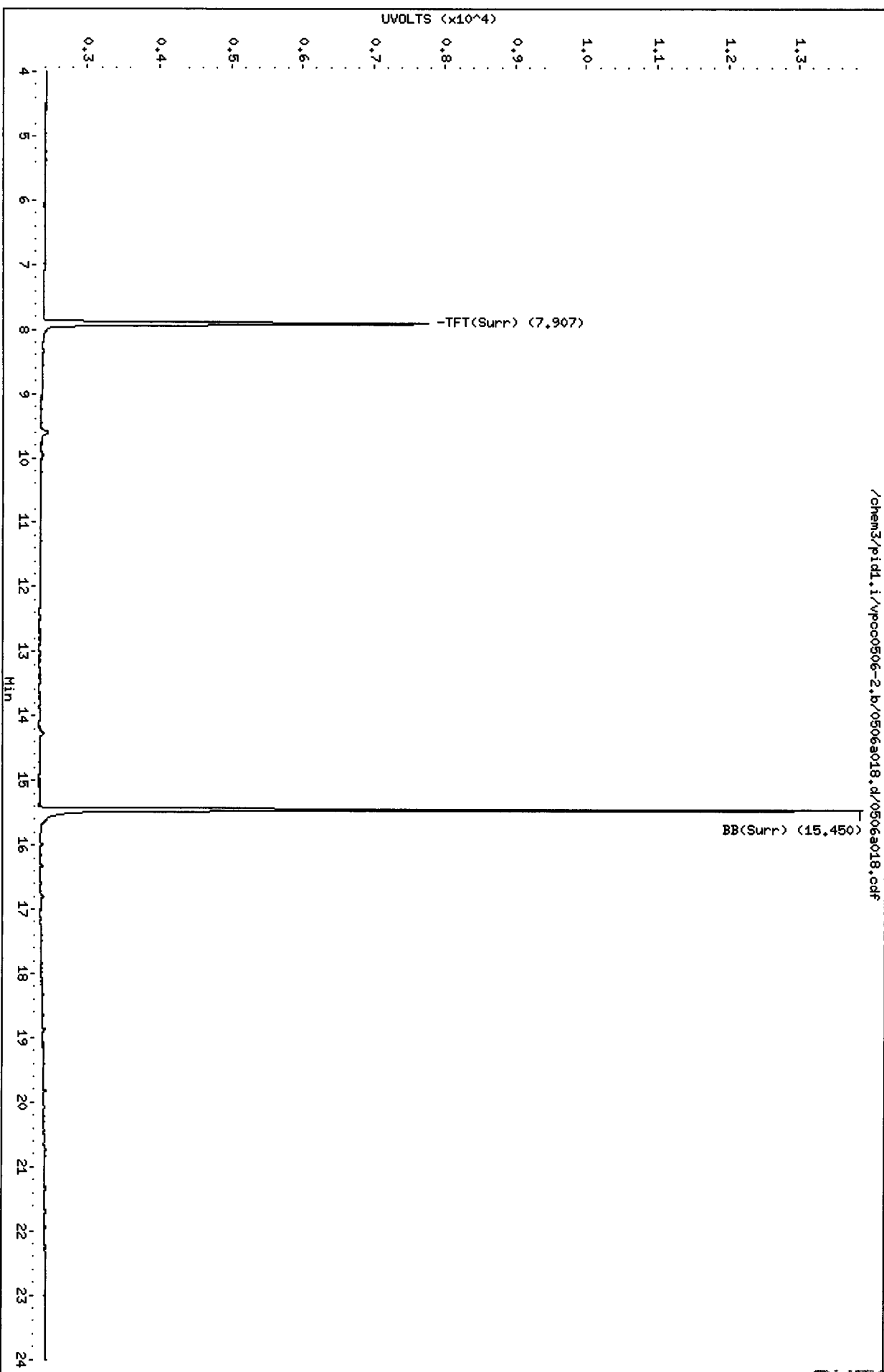
Sample Info: SU53C

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/vpcc0506-1.b/0506a019.d    ARI ID: SU53D  
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a019.d    Client ID: MW17042811  
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m            Injection Date: 06-MAY-2011 14:49  
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	2543	34541	97.4	TFT (Surr)
15.451	0.001	1816	15397	96.2	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 ( 9.85 to 17.94)	319505	1347	0.004
8015B 2MP-TMB ( 4.17 to 16.26)	652210	891	0.001
AK101 nC6-nC10 ( 4.68 to 15.16)	527526	891	0.002
NWTPHG Tol-Nap ( 9.85 to 18.95)	340084	1573	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
7.906	0.002	5337	95.3	TFT (Surr)
15.450	0.001	11308	95.1	BB (Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
ND	---	---	---	Benzene
9.950	0.002	218	0.64	Toluene
ND	---	---	---	Ethylbenzene
ND	---	---	---	M/P-Xylene
ND	---	---	---	O-Xylene
ND	---	---	---	MTBE

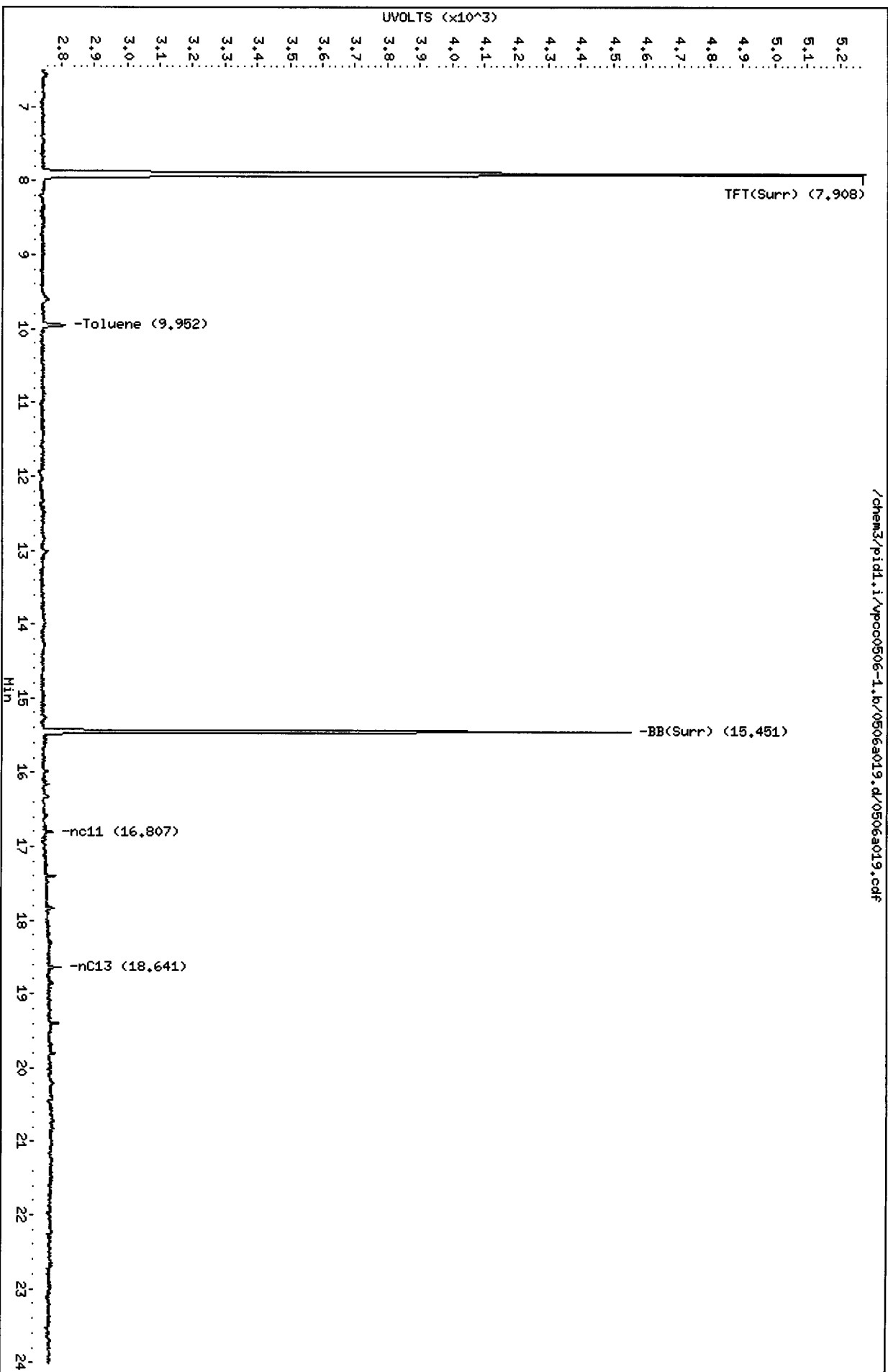
A Indicates Peak Area was used for quantitation instead of Height  
N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a019.d  
Date: 06-MAY-2011 14:49  
Client ID: MW17042811  
Sample Info: SU53D

Page 1

Column phase: RTX 502-2 FID

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



/chem3/pid1.i/vpcc0506-1.b/0506a019.d/0506a019.cdf

SU53 : 01217

Data File: /chem3/pid1.i/vpcc0506-2.b/0506a019.d

Date: 06-MAY-2011 14:49

Client ID: M417042841

Sample Info: SU53D

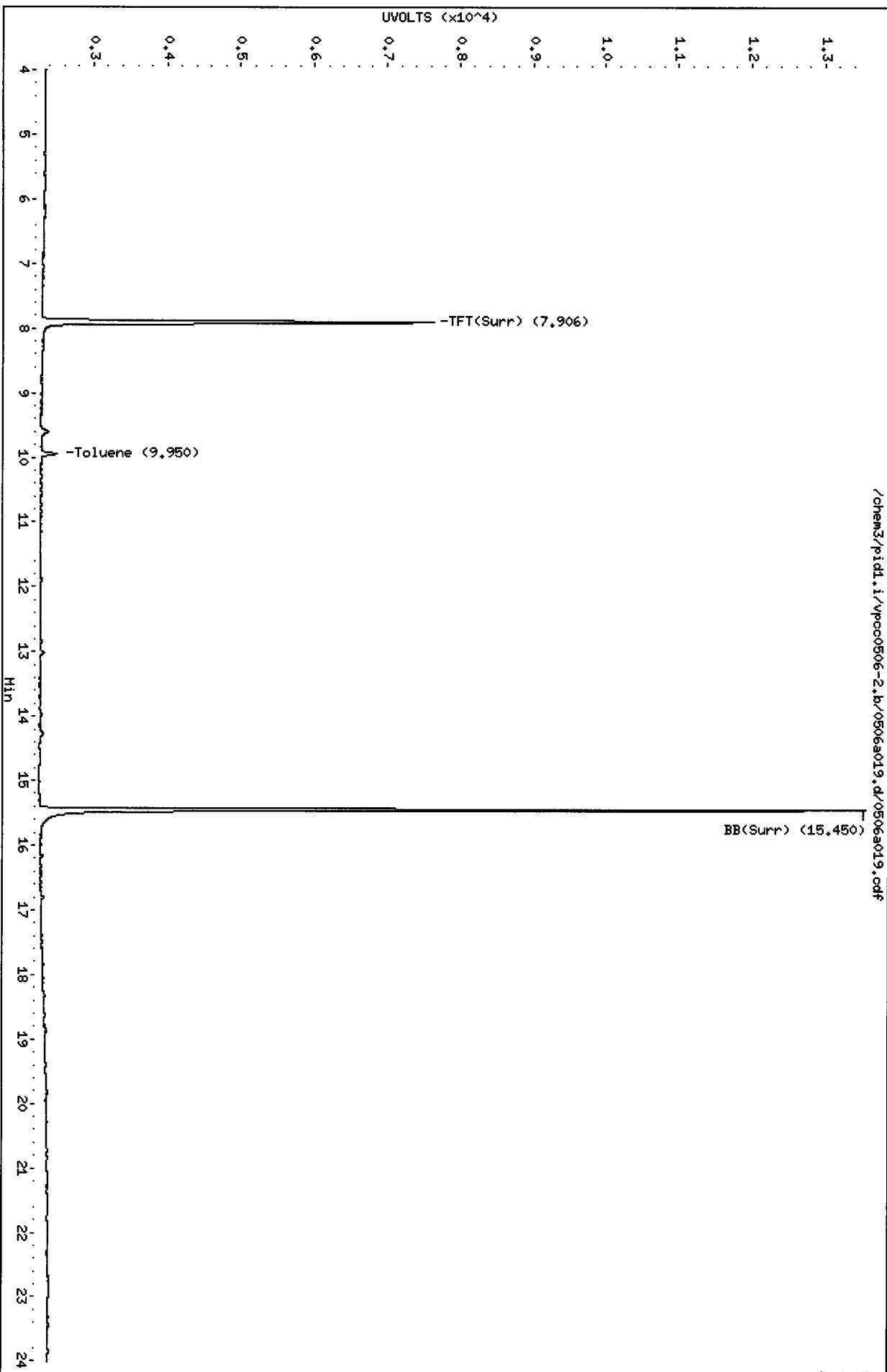
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: MH

Column diameter: 0.18

Page 1



SU53 : 01218

MH  
5/9/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a020.d      ARI ID: SU53E  
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a020.d      Client ID: MW14042811  
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m              Injection Date: 06-MAY-2011 15:18  
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	0.003	2509	34356	96.1	TFT(Surr)
15.451	0.001	1854	15402	98.2	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 ( 9.85 to 17.94)	319505	571	0.002
8015B 2MP-TMB ( 4.17 to 16.26)	652210	325	0.000
AK101 nC6-nC10 ( 4.68 to 15.16)	527526	324	0.001
NWTPHG Tol-Nap ( 9.85 to 18.95)	340084	772	0.002

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
7.907	0.002	5247	93.7	TFT(Surr)
15.451	0.002	11438	96.2	BB(Surr)

SW8021 (PID)

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

A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/p1d1.i/vpcc0506-1.b/0506a020.d

Date : 06-MAY-2011 15:18

Client ID: MM14042811

Sample Info: SU53E

Page 1

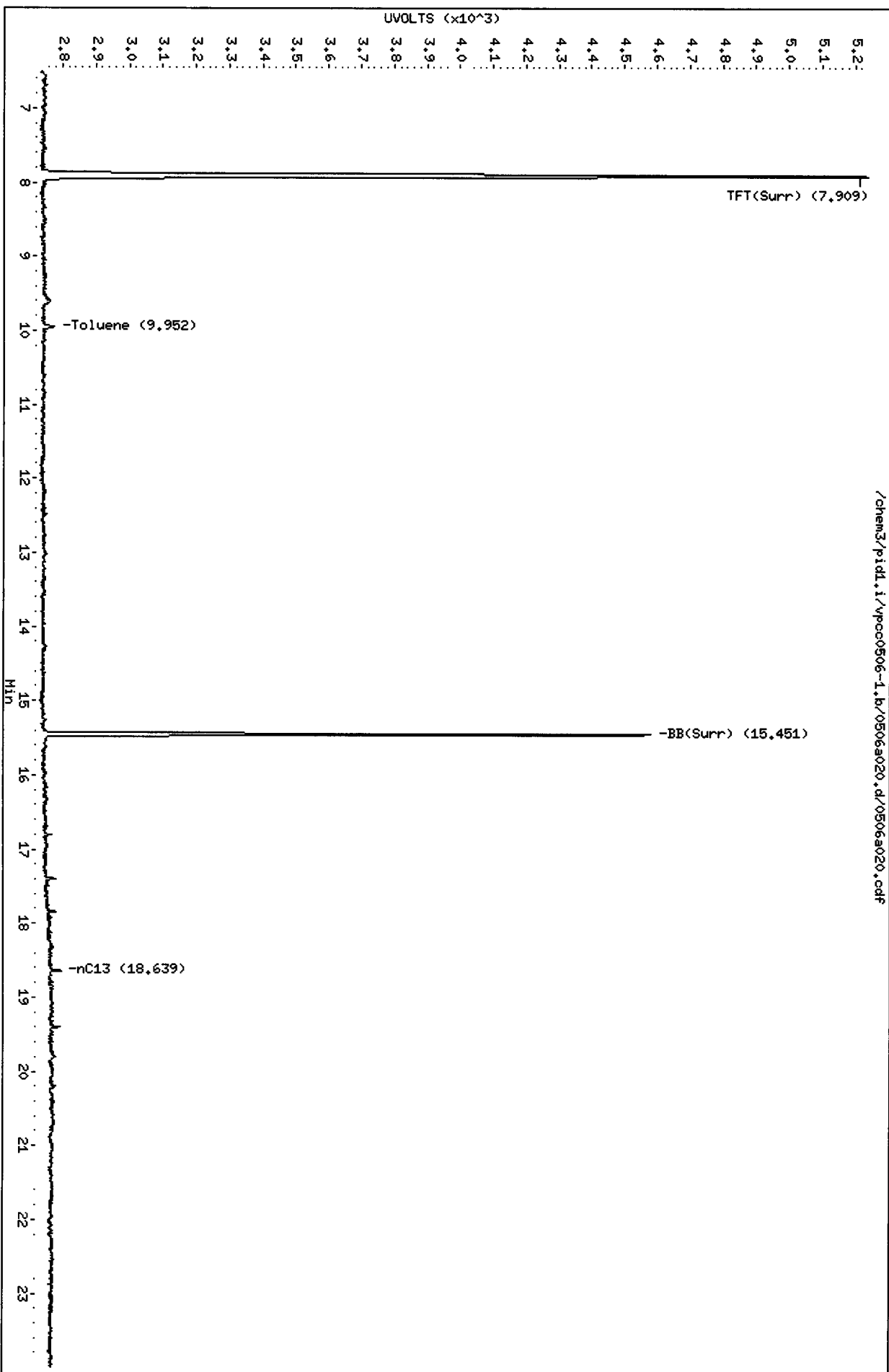
Instrument: p1d1.i

Operator: HH

Column diameter: 0.18

Column phase: RTX 502-2 FID

/chem3/p1d1.i/vpcc0506-1.b/0506a020.d/0506a020.cdf





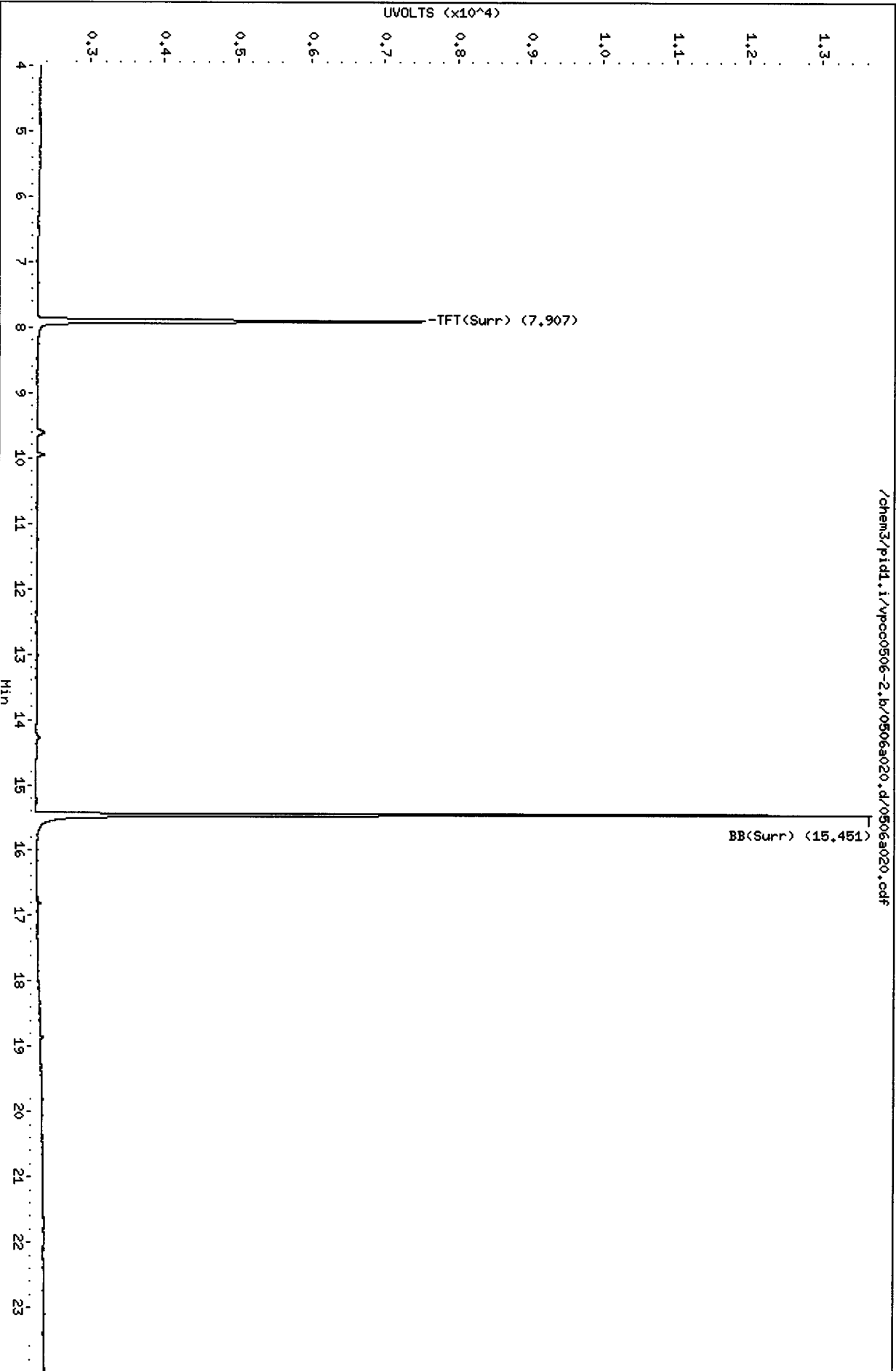
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Date: 06-MAY-2011 15:18  
Client ID: MM14042811  
Sample Info: SU53E

Instrument: pid1.i

Page 1

Column phase: RTX 502-2 PID

Operator: HH  
Column diameter: 0.18



SU53 : 01221

MH  
5/9/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a021.d    ARI ID: SU53F  
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a021.d    Client ID: MW16042811  
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m            Injection Date: 06-MAY-2011 15:47  
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	2561	34867	98.1	TFT (Surr)
15.451	0.001	1833	15372	97.1	BB (Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 ( 9.85 to 17.94)	319505	857	0.003
8015B 2MP-TMB ( 4.17 to 16.26)	652210	397	0.001
AK101 nC6-nC10 ( 4.68 to 15.16)	527526	396	0.001
NWTPHG Tol-Nap ( 9.85 to 18.95)	340084	1114	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
--	-----	-----	-----	-----
7.906	0.001	5330	95.2	TFT (Surr)
15.451	0.002	11398	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

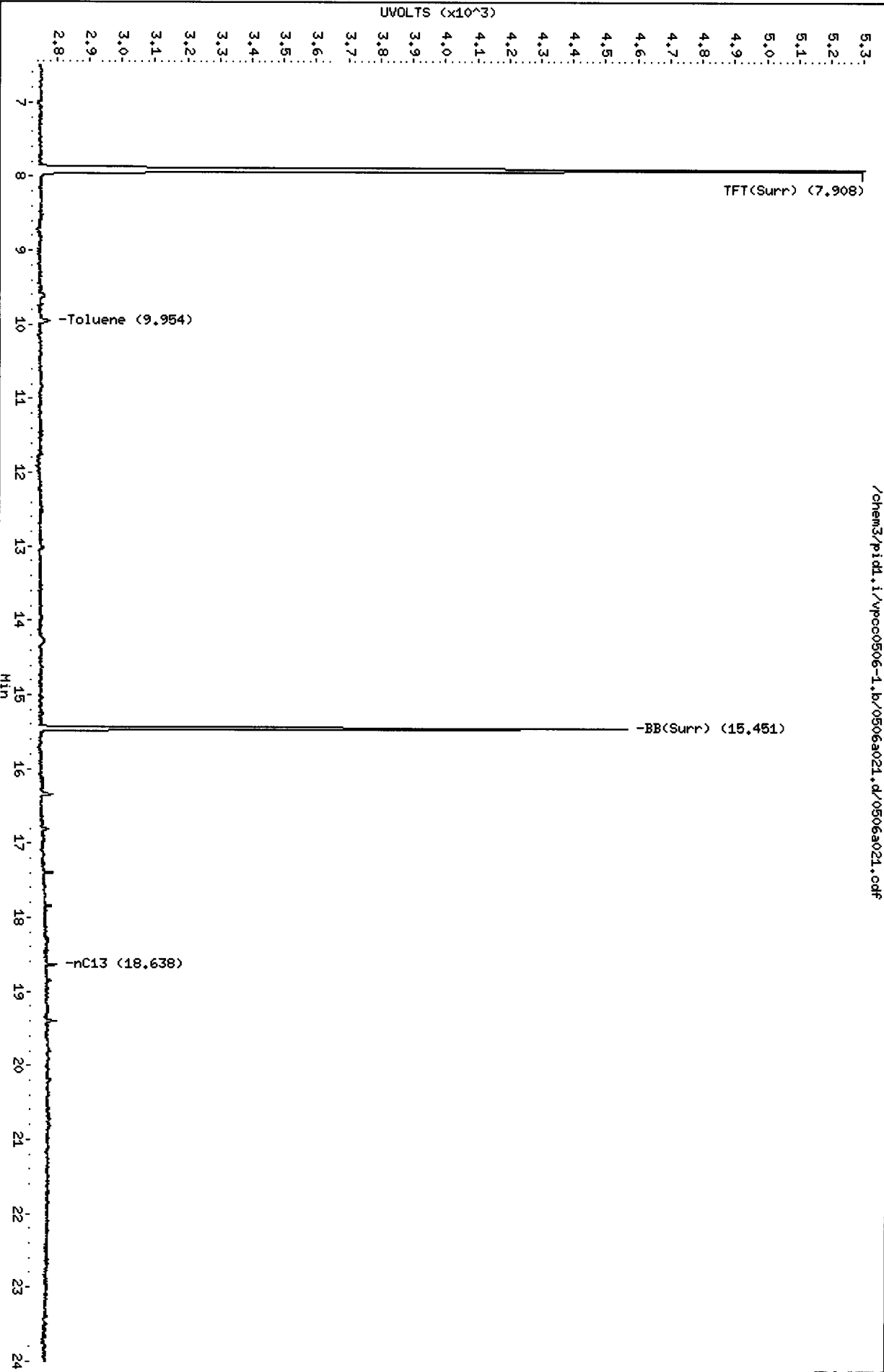
Data File: /chem3/pid1.i/vpcc0506-1.b/0506a021.d  
Date : 06-MAY-2011 15:47  
Client ID: HM16042811  
Sample Info: SU53F

Instrument: pid1.i

Page 1

Column phase: RTX 502-2 FID

Operator: HH  
Column diameter: 0.18



/chem3/pid1.i/vpcc0506-1.b/0506a021.d/0506a021.cdf

Data File: /chem3/piddl.i/vpcc0506-2.b/0506a021.d

Date : 06-MAY-2011 15:47

Client ID: MM16042811

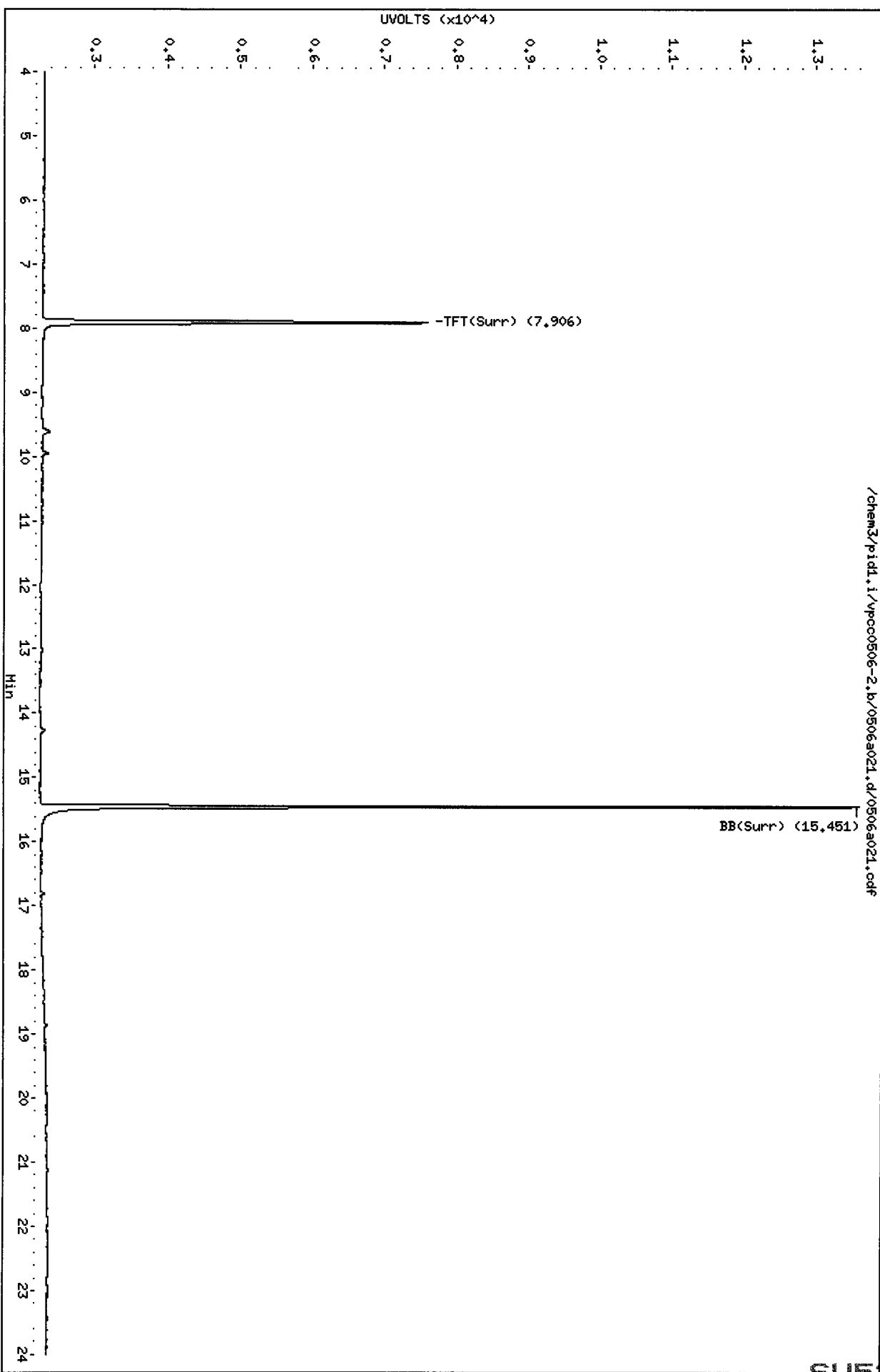
Sample Info: SU53F

Column phase: RTX 502-2 PID

Instrument: piddl.i

Operator: HH

Column diameter: 0.18



MH  
5/9/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a022.d      ARI ID: SU73A  
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a022.d      Client ID: MW-01-042911  
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m              Injection Date: 06-MAY-2011 16:16  
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	0.004	2502	34327	95.8	TFT(Surr)
15.450	0.000	1826	15799	96.7	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 ( 9.85 to 17.94)	319505	88316	0.276 M
8015B 2MP-TMB ( 4.17 to 16.26)	652210	27206	0.042 M
AK101 nC6-nC10 ( 4.68 to 15.16)	527526	13300	0.025 M
NWTPHG Tol-Nap ( 9.85 to 18.95)	340084	129178	0.380 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	0.003	5189	92.7	TFT(Surr)
15.450	0.001	11239	94.5	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	----	-----	-----	-----
7.057	-0.006	161	0.43	Benzene
ND	---	---	---	Toluene
12.852	0.001	734	2.52	Ethylbenzene
13.010	-0.003	579	1.80	M/P-Xylene
13.973	0.002	235	0.93	O-Xylene
ND	---	---	---	MTBE

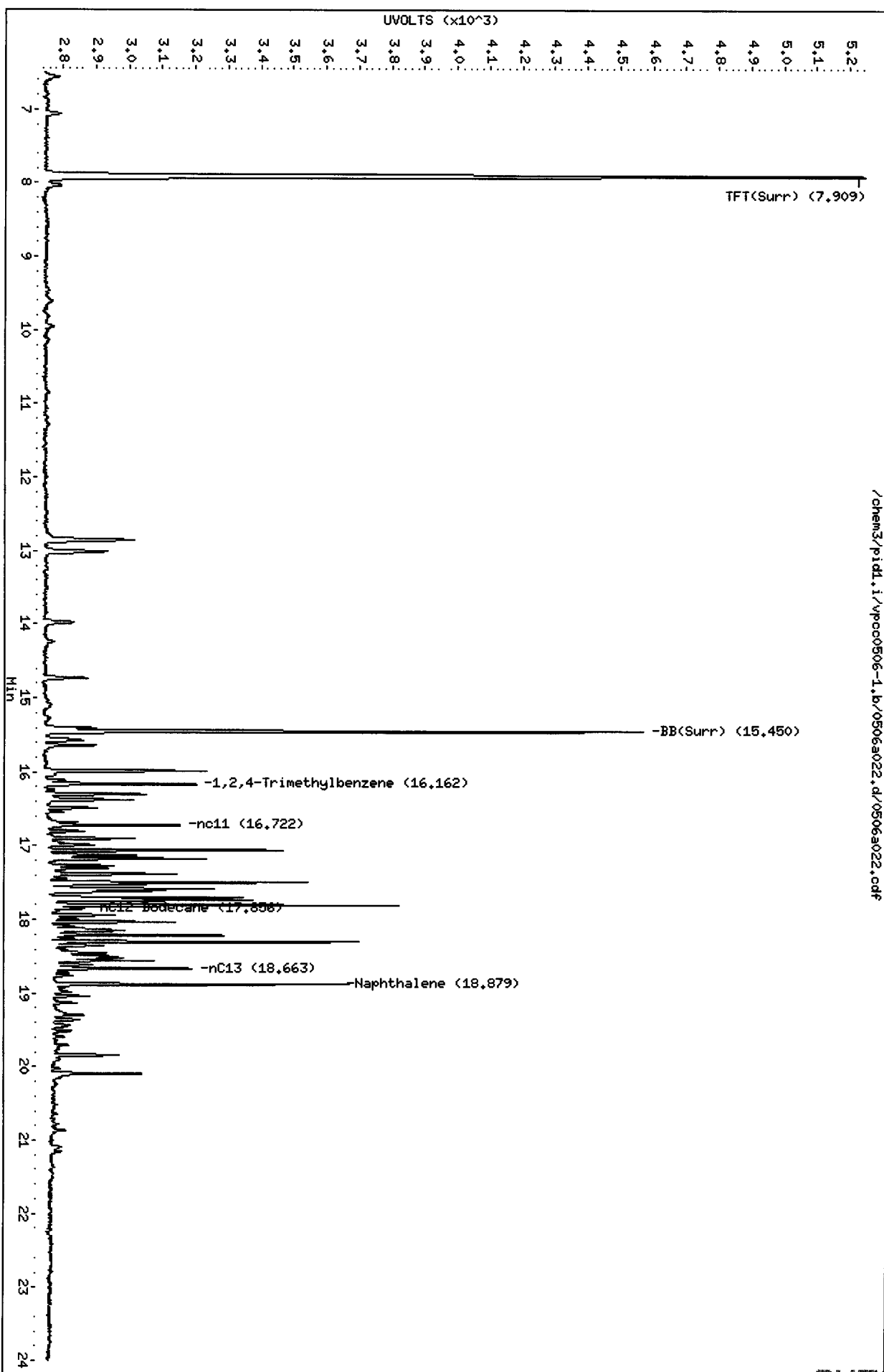
A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a022.d  
Date: 06-MAY-2011 16:16  
Client ID: MH-01-042911  
Sample Info: SU73A

Column phase: RTX 502-2 FID

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



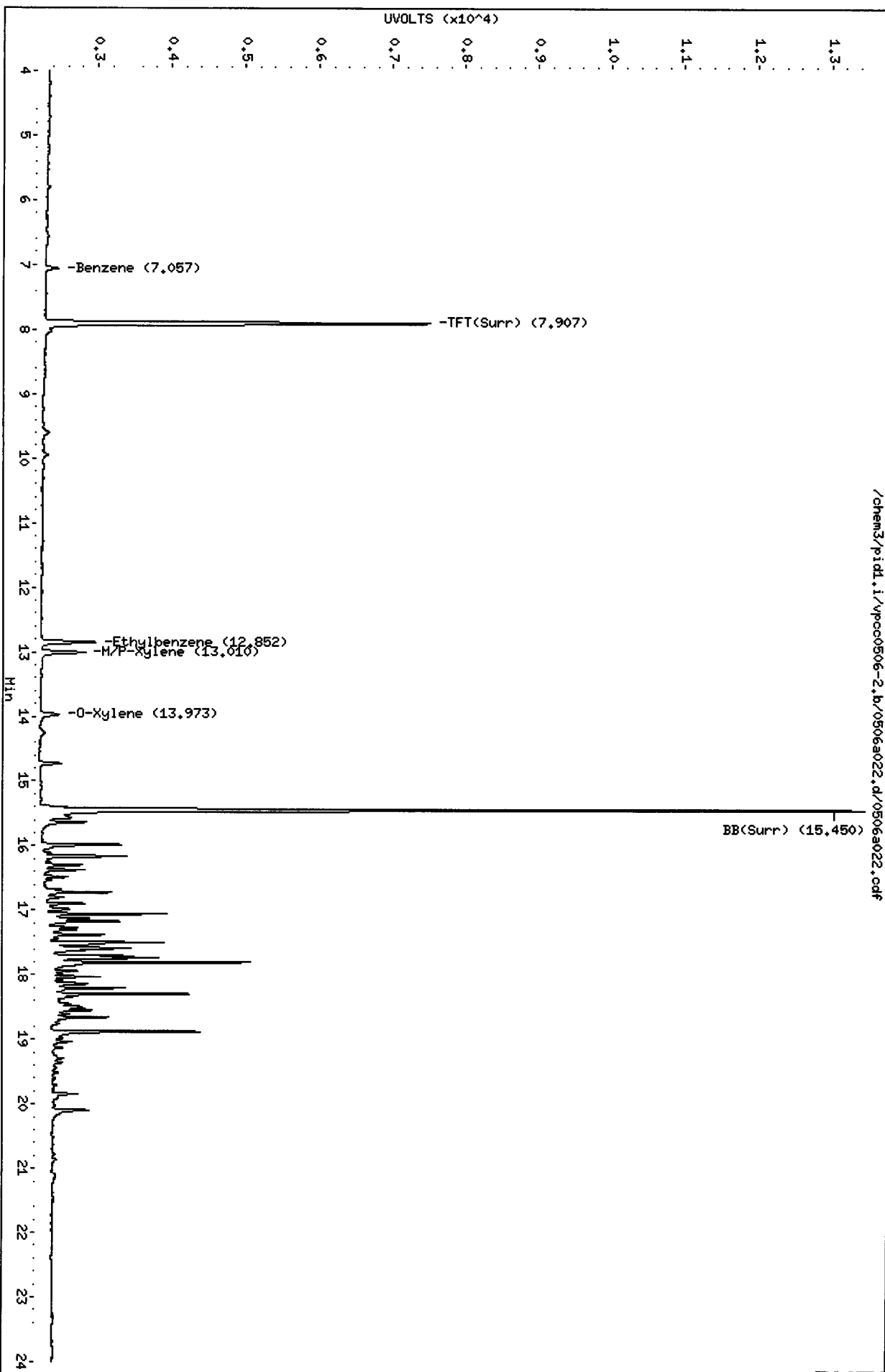
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Data File: /chem3/pid1.i/vpcc0506-2.b/0506a022.d  
Date: 06-MAY-2011 16:16  
Client ID: MM-01-042911  
Sample Info: SU73A

Column phase: RTX 502-2 PID

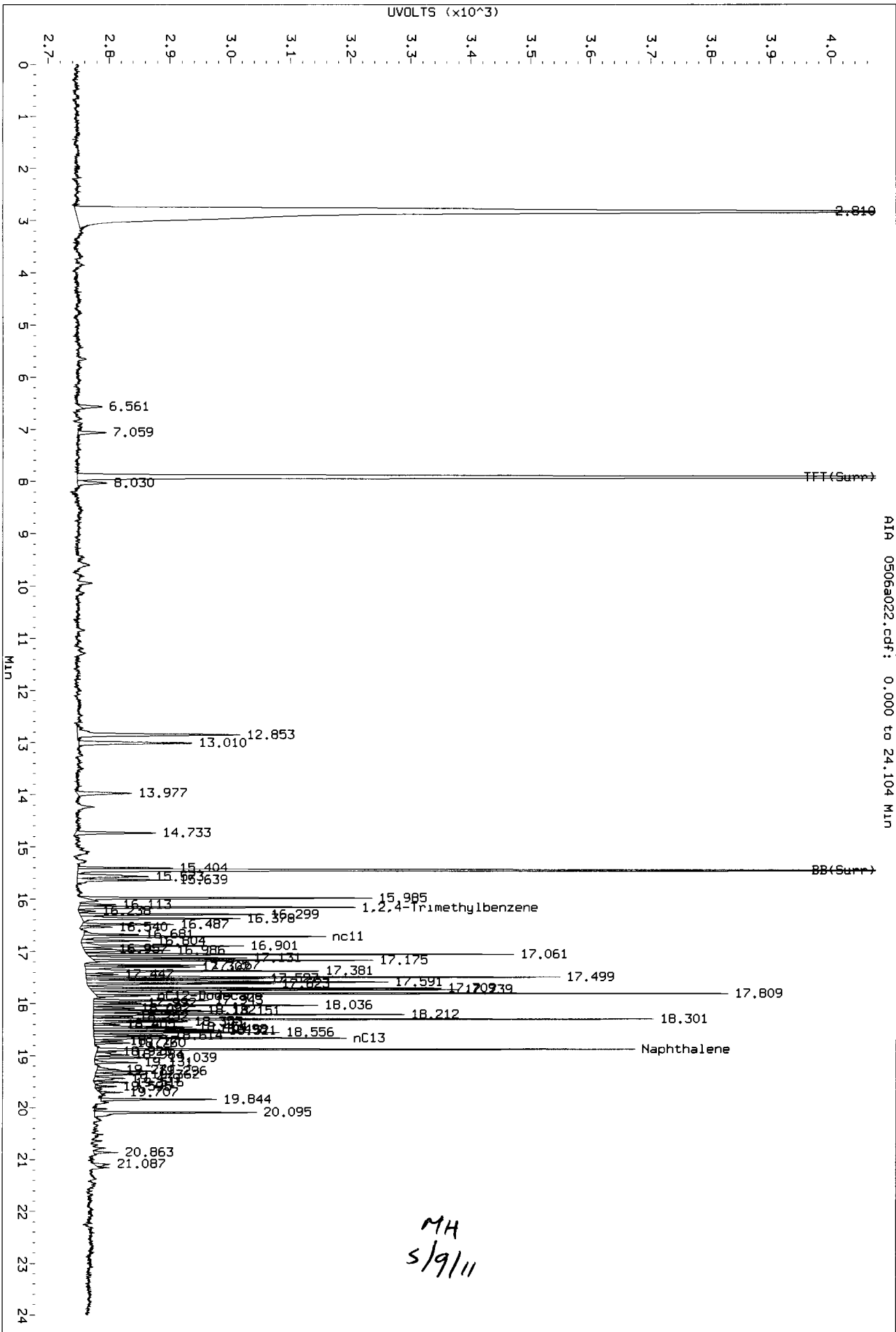
Instrument: pid1.i

Operator: HH  
Column diameter: 0.18



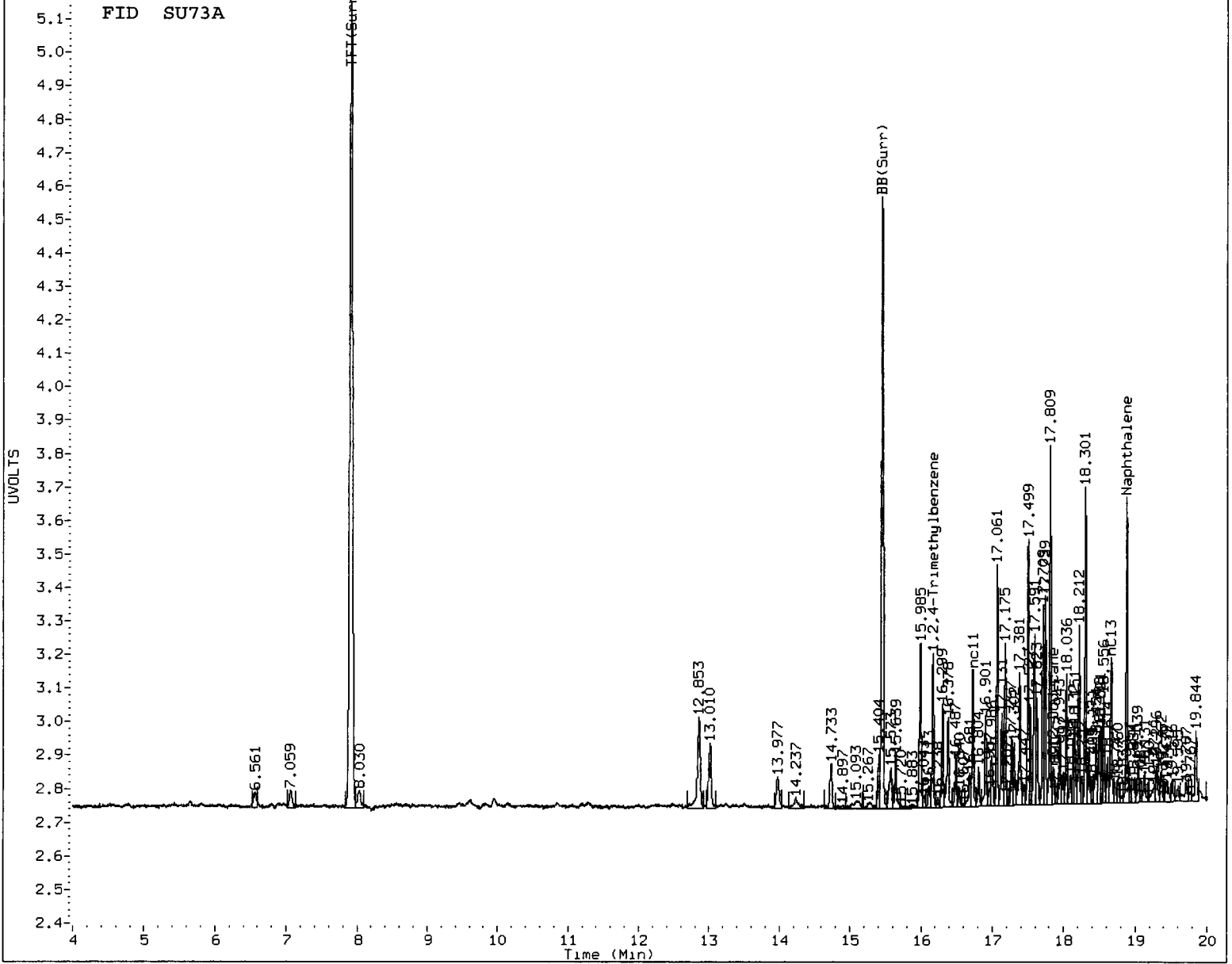
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Data File: /chem3/prd1.1/vpcc0506-1.b/0506a022.d/0506a022.cdf  
Injection Date: 06-May-2011 16:16  
Instrument: prd1.1  
Client Sample ID: MW-01-042911



AIA 0506a022.cdf: 0.000 to 24.104 MIN





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/0506a023.d      ARI ID: SU73B  
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a023.d      Client ID: MW-01-042911-D  
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m              Injection Date: 06-MAY-2011 16:45  
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	2521	34478	96.6	TFT(Surr)
15.450	0.001	1862	15769	98.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
-----	----	-----	-----
WAGas Tol-C12 ( 9.85 to 17.94)	319505	91440	0.286 M
8015B 2MP-TMB ( 4.17 to 16.26)	652210	28542	0.044 M
AK101 nC6-nC10 ( 4.68 to 15.16)	527526	13709	0.026 M
NWTPHG Tol-Nap ( 9.85 to 18.95)	340084	134846	0.397 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	0.001	5238	93.6	TFT(Surr)
15.450	0.001	11476	96.5	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
7.056	-0.008	160	0.43	Benzene
ND	---	---	---	Toluene
12.852	0.001	734	2.52	Ethylbenzene
13.010	-0.003	589	1.83	M/P-Xylene
13.973	0.002	238	0.94	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/0506a023.d

Date: 06-MAY-2011 16:45

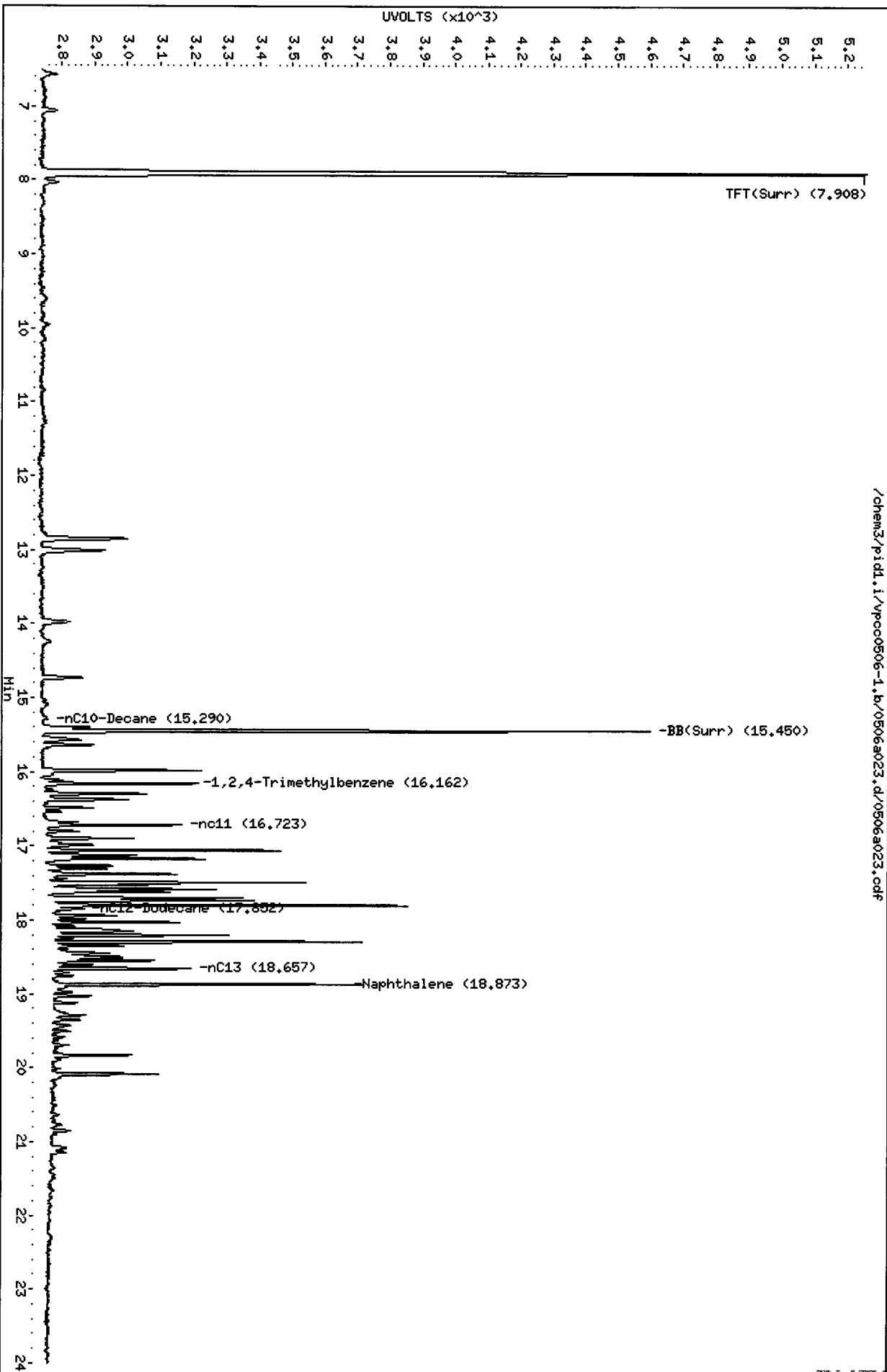
Client ID: MH-01-042911-D

Sample Info: SU73B

Page 1

Column phase: RTX 502-2 FID

Operator: MH  
Column diameter: 0.18



/chem3/pid1.i/vpcc0506-1.b/0506a023.d/0506a023.cdf

SU58 : 01231

Data File: /chem3/pid1.i/vpcc0506-2.b/0506a023.d

Date : 06-MAY-2011 16:45

Client ID: MM-01-042911-D

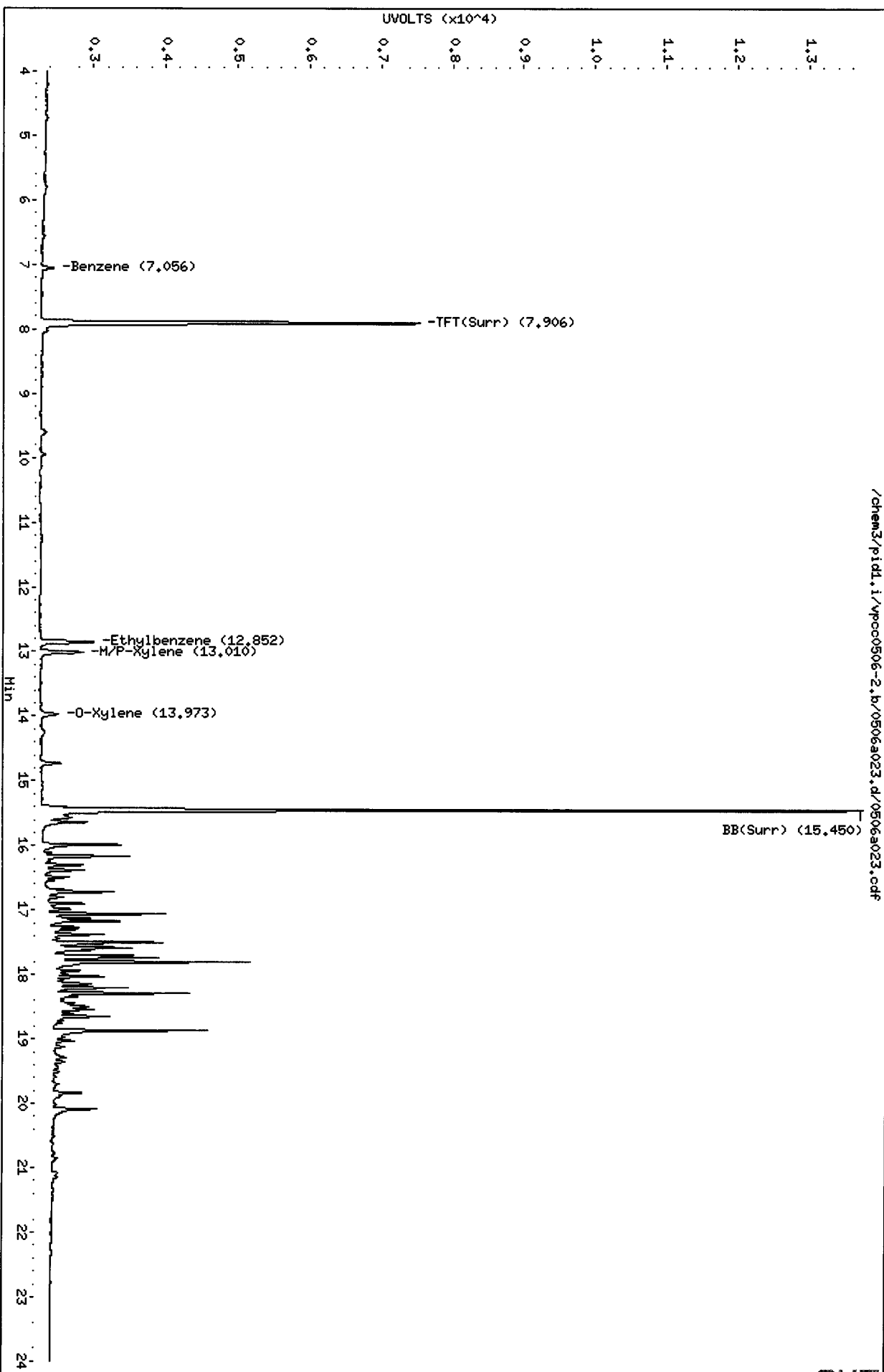
Sample Info: SU738

Column phase: RTX 502-2 PID

Instrument: pid1.i

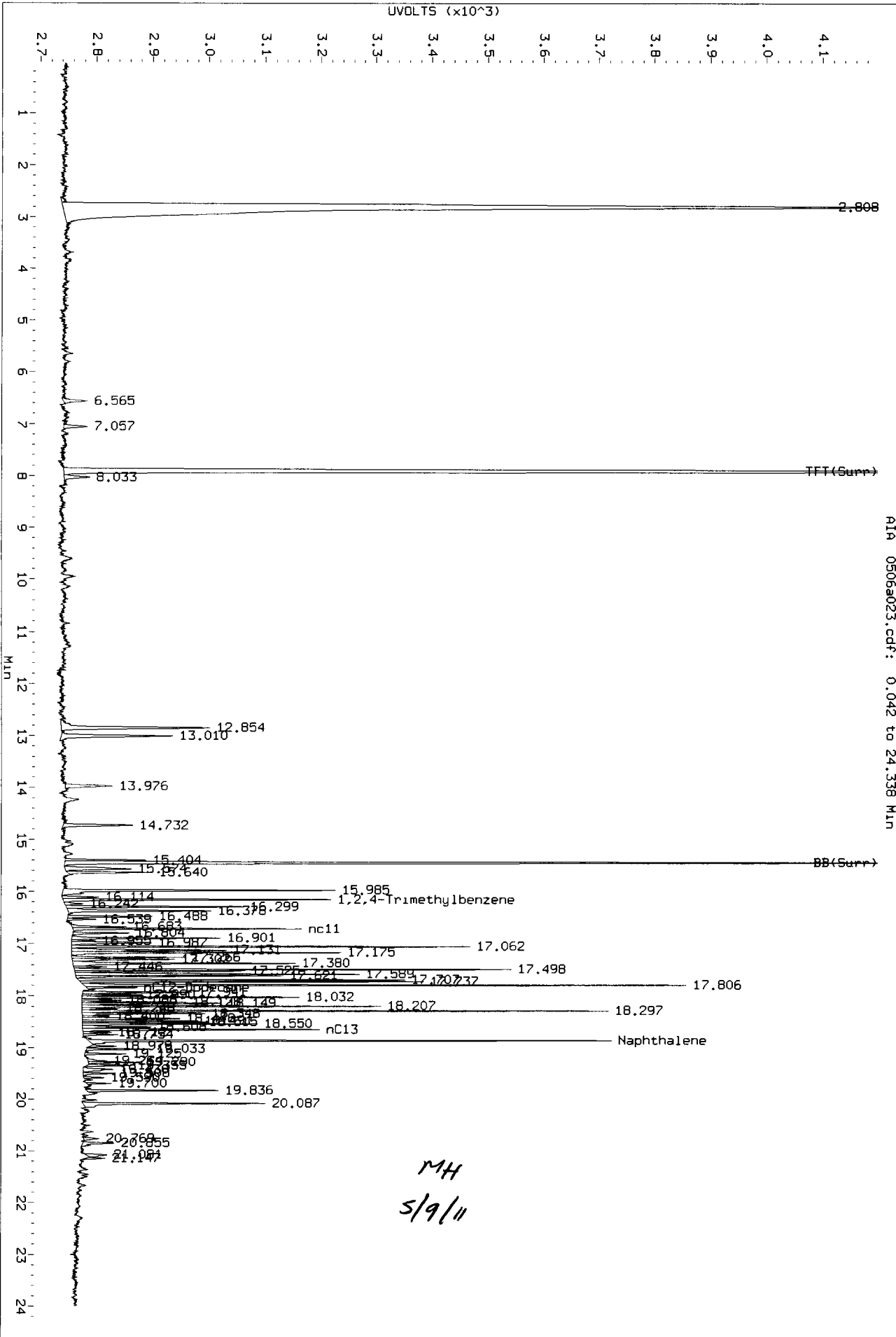
Operator: MH

Column diameter: 0.18



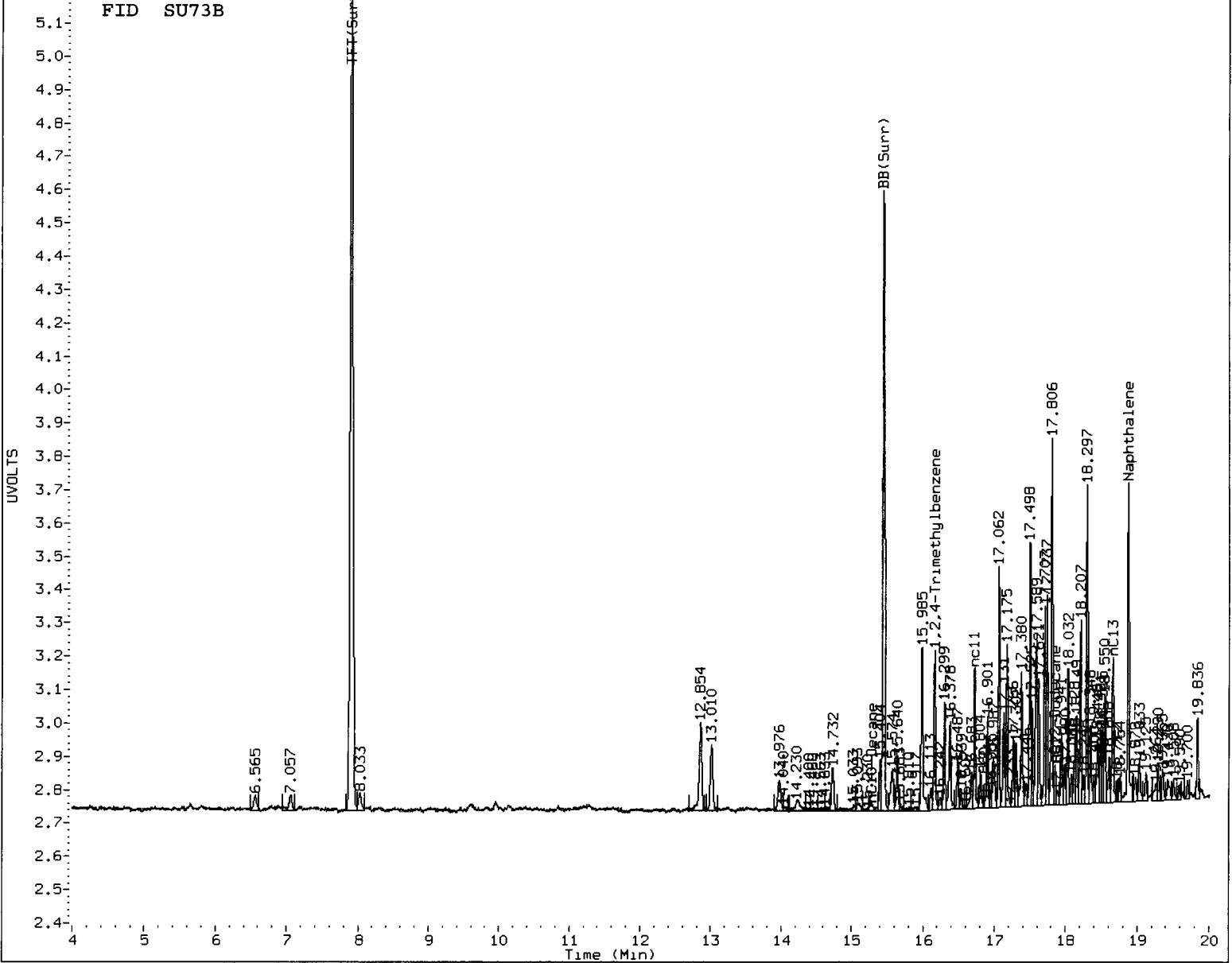
/chem3/pid1.i/vpcc0506-2.b/0506a023.d/0506a023.cdf

Data File: /chem3/p1d1.1/vpcc0506-1.b/0506a023.d/0506a023.cdf  
 Injection Date: 06-MAY-2011 16:45  
 Instrument: p1d1.1  
 Client Sample ID: MH-01-042911-D



AIA 0506a023.cdf: 0.042 to 24.338 MIN

FID SU73B



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/0506a024.d    ARI ID: SU74A  
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a024.d    Client ID: B312-042911  
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m            Injection Date: 06-MAY-2011 17:15  
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	2540	34448	97.3	TFT(Surr)
15.452	0.002	1859	15430	98.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 ( 9.85 to 17.94)	319505	247	0.001
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	1869	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
--	----	-----	----	-----
7.906	0.002	5308	94.8	TFT(Surr)
15.451	0.002	11574	97.3	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/vpcc0506-1.b/0506a024.d

Date: 06-MAY-2011 17:15

Client ID: B312-042911

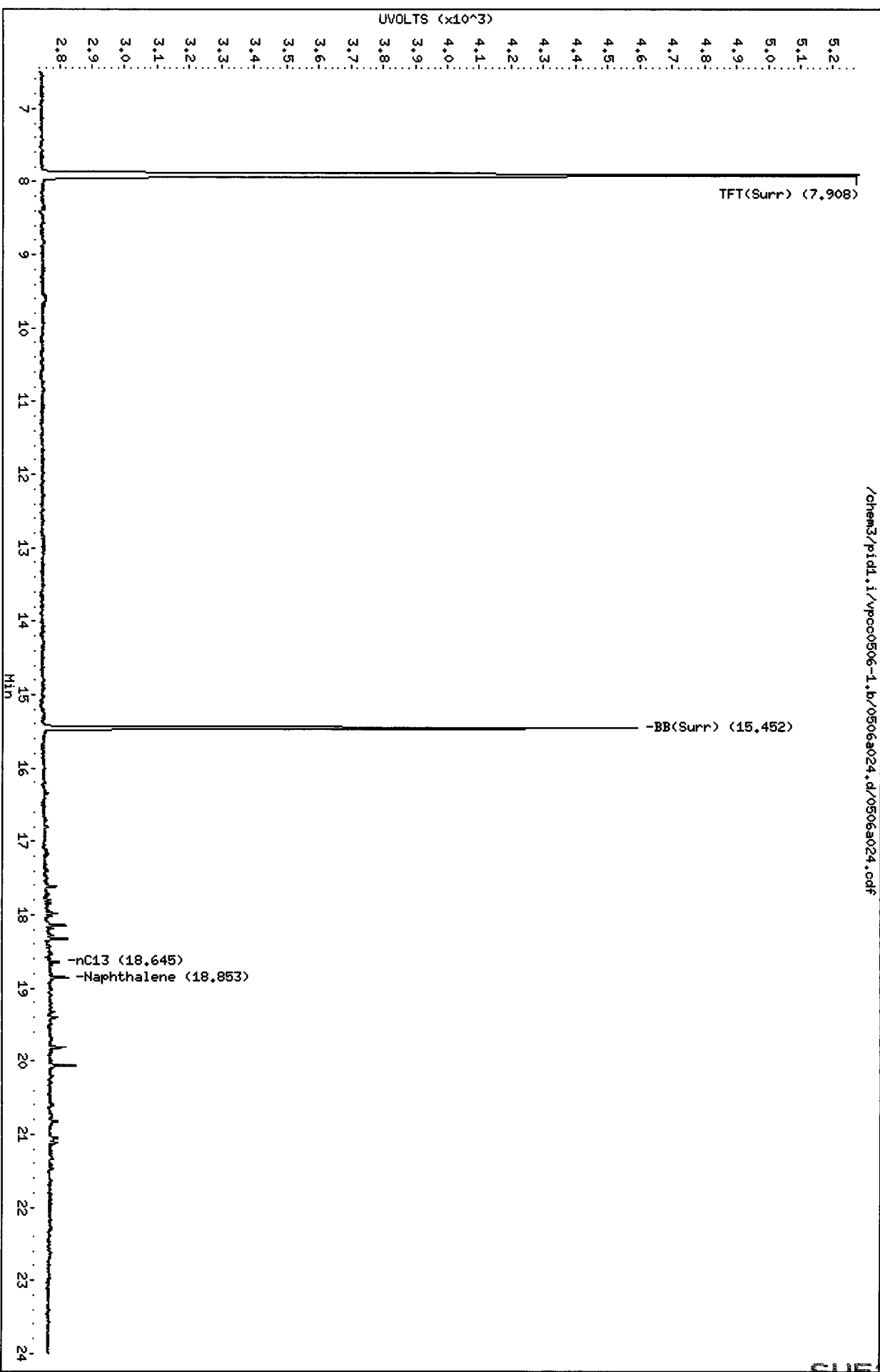
Sample Info: SU74A

Column phase: RTX 502-2 FID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18



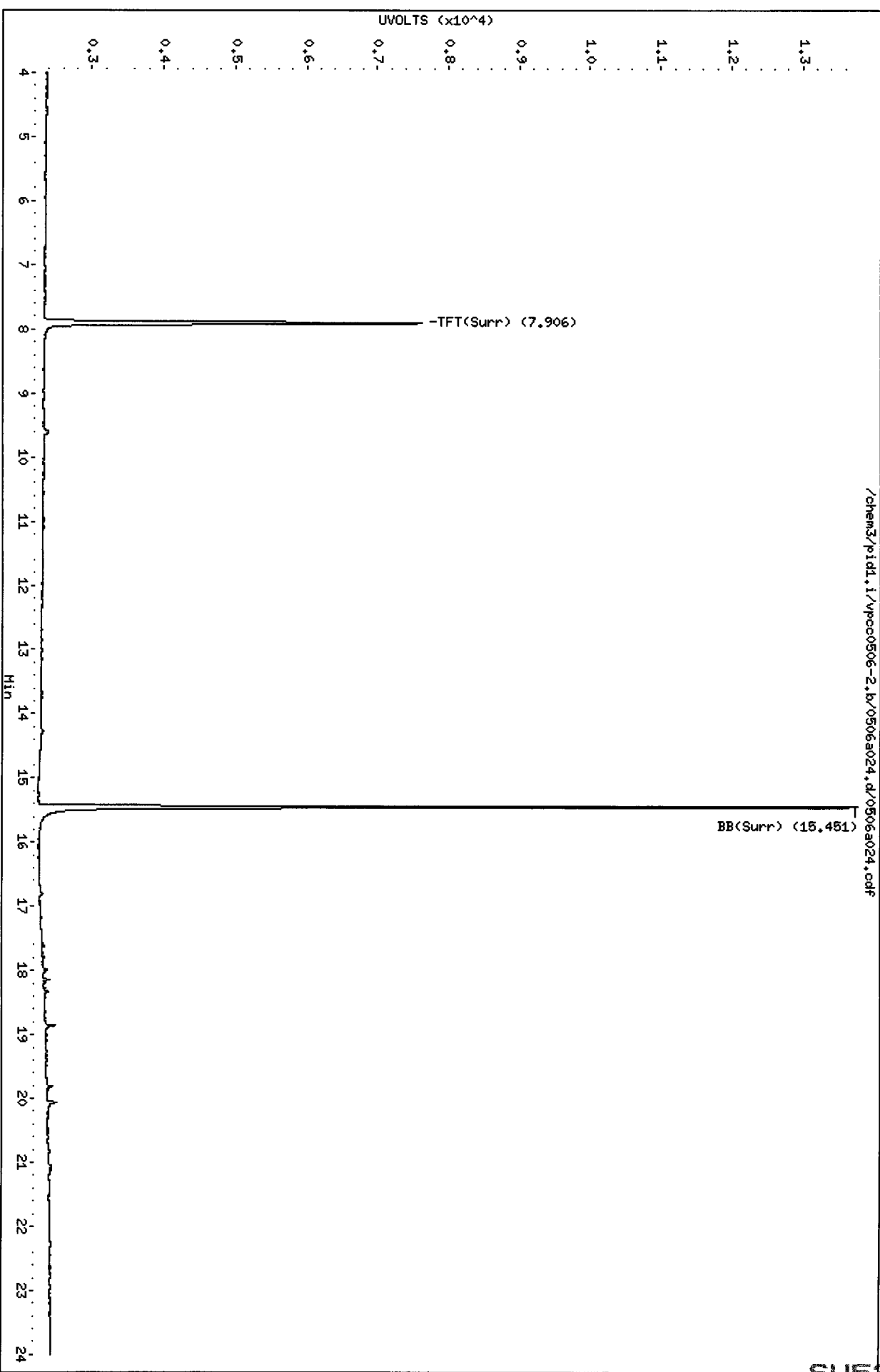
/chem3/pid1.i/vpcc0506-1.b/0506a024.d/0506a024.cdf



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a024.d  
Date : 06-MAY-2011 17:15  
Client ID: B312-042911  
Sample Info: SU74A

Column phase: RTX 502-2 PID

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



/chem3/pid1.i/vpcc0506-2.b/0506a024.d/0506a024.cdf

MH  
5/9/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a025.d    ARI ID: SU74B  
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a025.d    Client ID: B310-042911  
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m            Injection Date: 06-MAY-2011 17:44  
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	0.003	2510	34740	96.2	TFT(Surr)
15.452	0.002	1858	15598	98.4	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 ( 9.85 to 17.94)	319505	153	0.000
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	424	0.001

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	----	-----	----	-----
7.907	0.003	5203	92.9	TFT(Surr)
15.451	0.002	11432	96.1	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/p1d1.i/vpcc0506-1.b/0506a025.d

Date : 06-MAY-2011 17:44

Client ID: B310-042911

Sample Info: SU748

Page 1

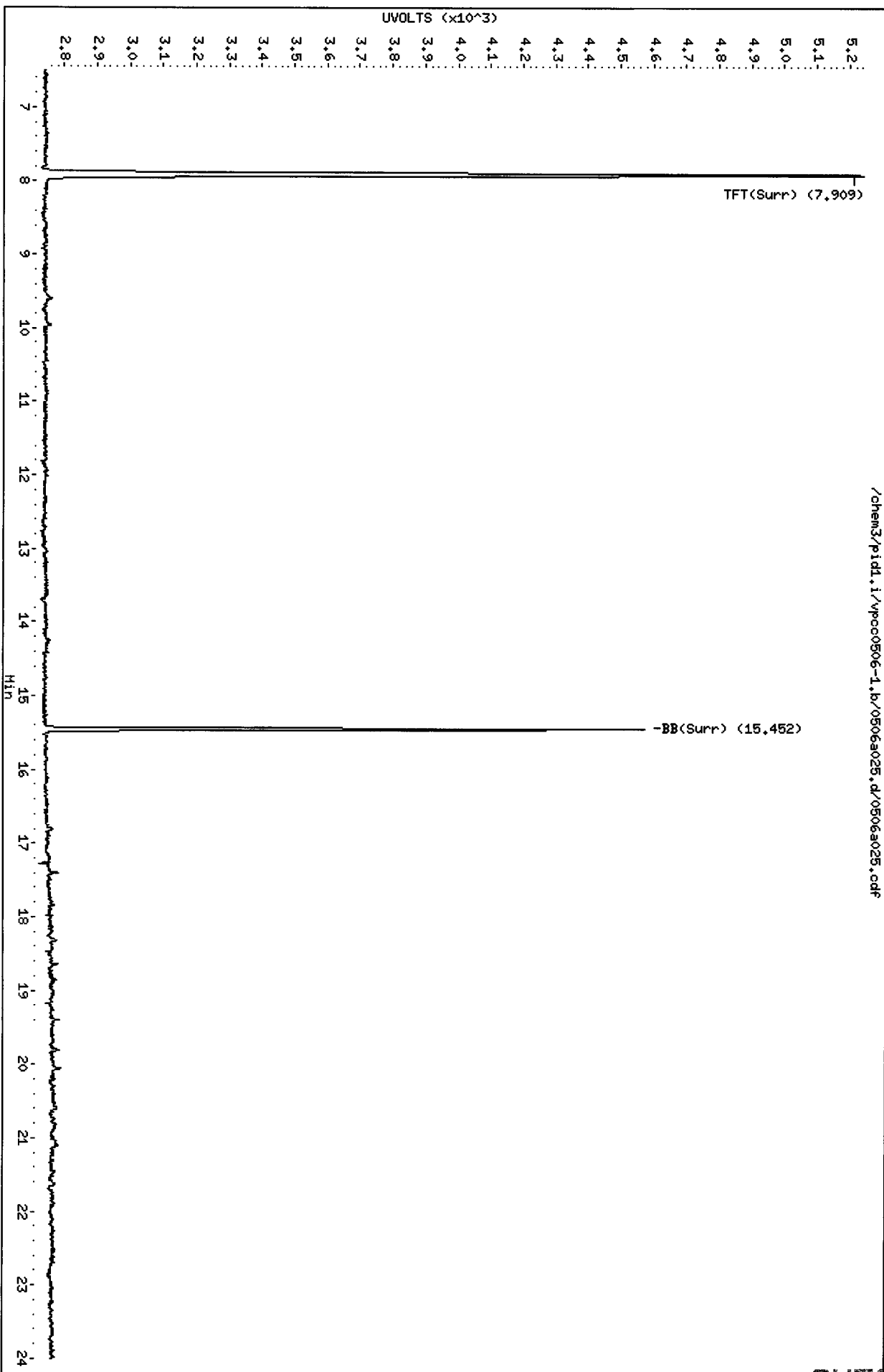
Instrument: p1d1.i

Operator: HH

Column diameter: 0.18

Column phase: RTX 502-2 FID

/chem3/p1d1.i/vpcc0506-1.b/0506a025.d/0506a025.cdf



Data File: /chem3/pid1.i/vpcc0506-2.b/0506a025.d

Date: 06-MAY-2011 17:44

Client ID: B310-042911

Sample Info: SU748

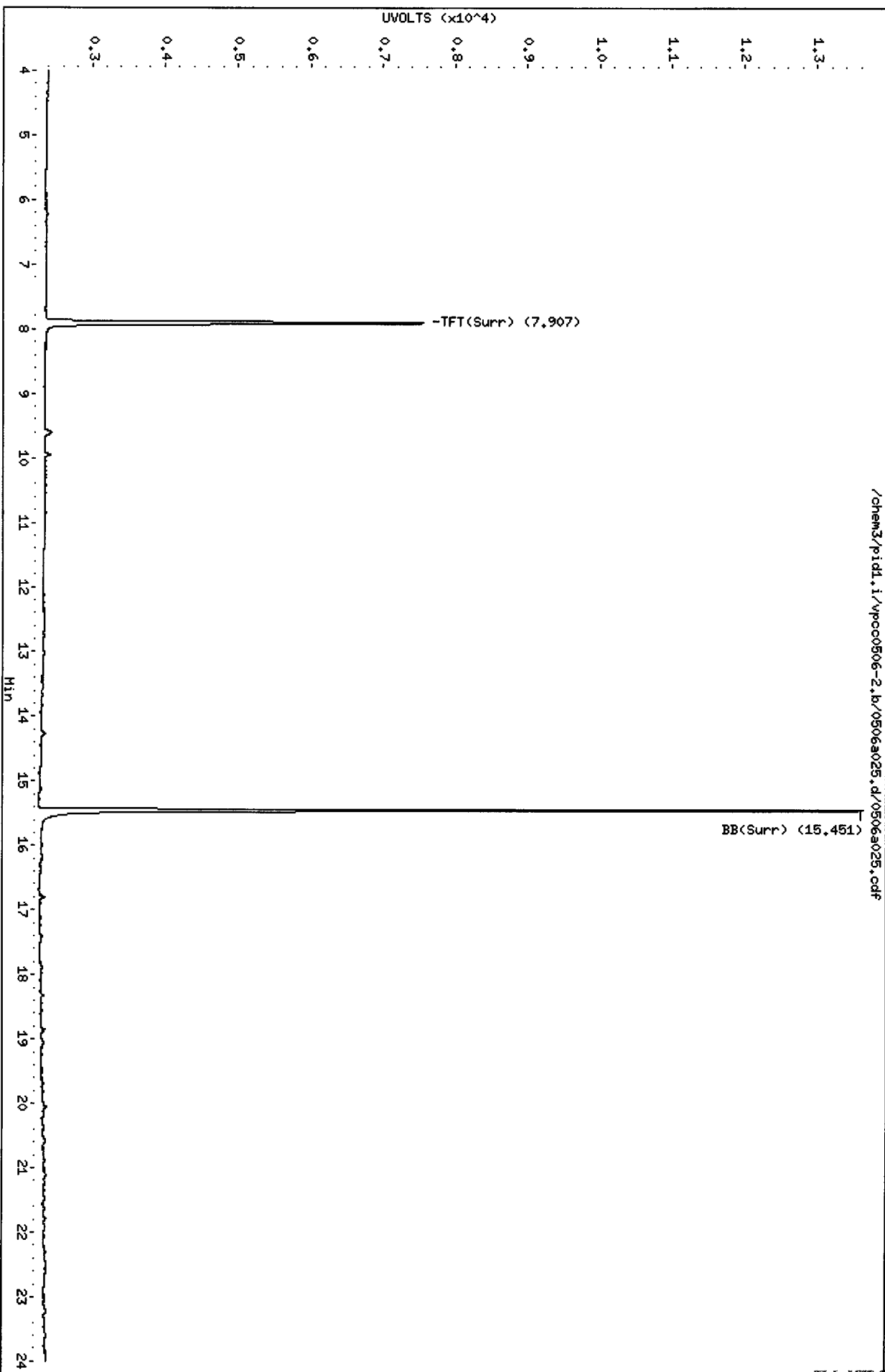
Column phase: RTX 502-2 PID

Instrument: pid1.i

Operator: HH

Column diameter: 0.18

Page 1



0506 : 01240

MH  
5/9/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a026.d      ARI ID: SU74C  
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a026.d      Client ID: B311-042911  
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m              Injection Date: 06-MAY-2011 18:13  
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
--	-----	-----	----	----	-----
7.909	0.003	2553	34790	97.8	TFT(Surr)
15.450	0.001	1842	15424	97.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 ( 9.85 to 17.94)	319505	500	0.002
8015B 2MP-TMB ( 4.17 to 16.26)	652210	668	0.001
AK101 nC6-nC10 ( 4.68 to 15.16)	527526	667	0.001
NWTPHG Tol-Nap ( 9.85 to 18.95)	340084	500	0.001

M Indicates manual integration within range

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

PID Surrogates

RT	Shift	Response	%Rec	Compound
--	-----	-----	----	-----
7.907	0.003	5372	96.0	TFT(Surr)
15.450	0.001	11429	96.1	BB(Surr)

SW8021 (PID)

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

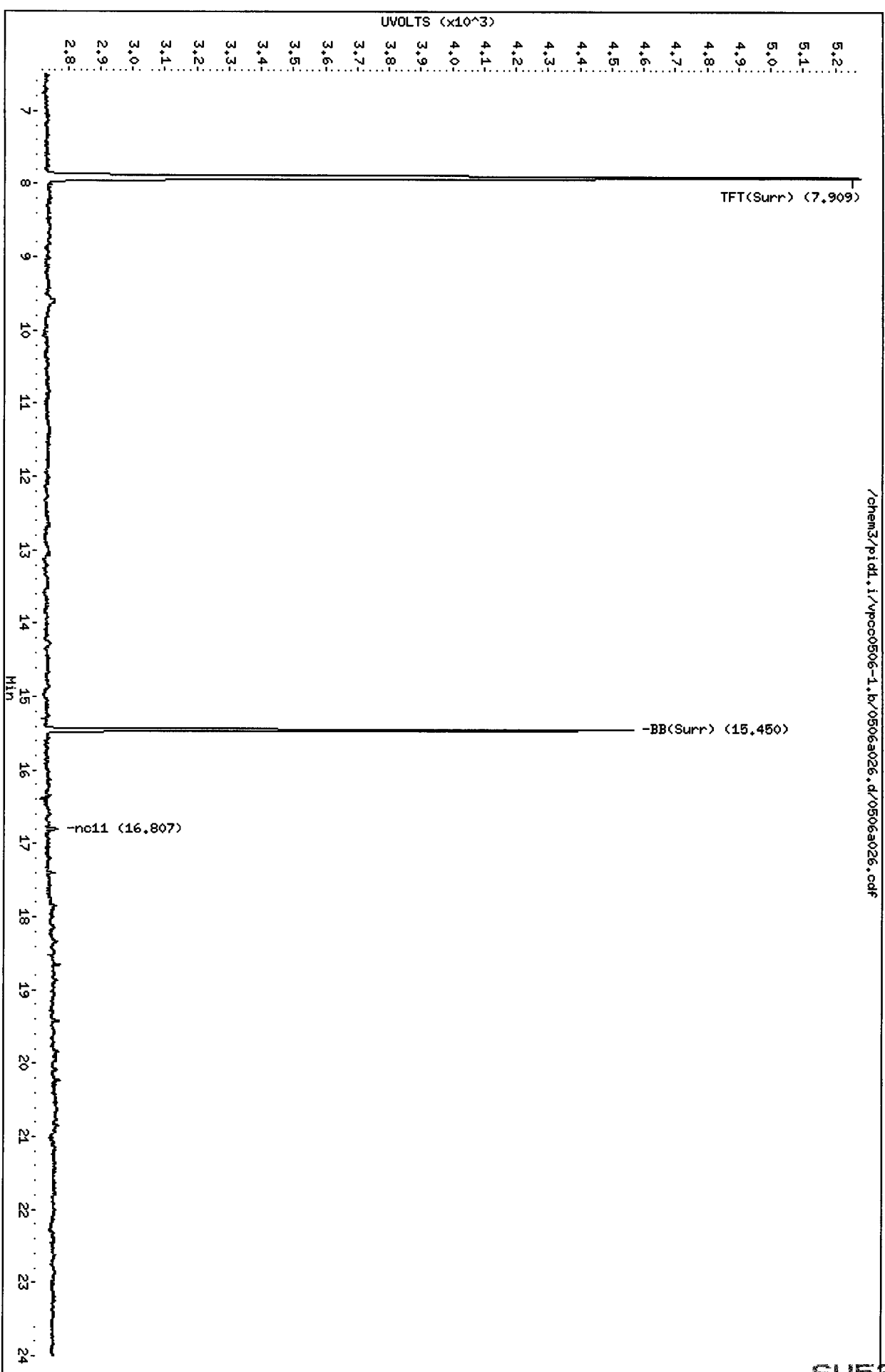
A Indicates Peak Area was used for quantitation instead of Height

N Indicates peak peak was manually integrated

Data File: /chem3/pid1.i/vpcc0506-1.b/0506a026.d  
Date: 06-MAY-2011 18:13  
Client ID: B311-042911  
Sample Info: SU74C

Column phase: RTX 502-2 FID

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

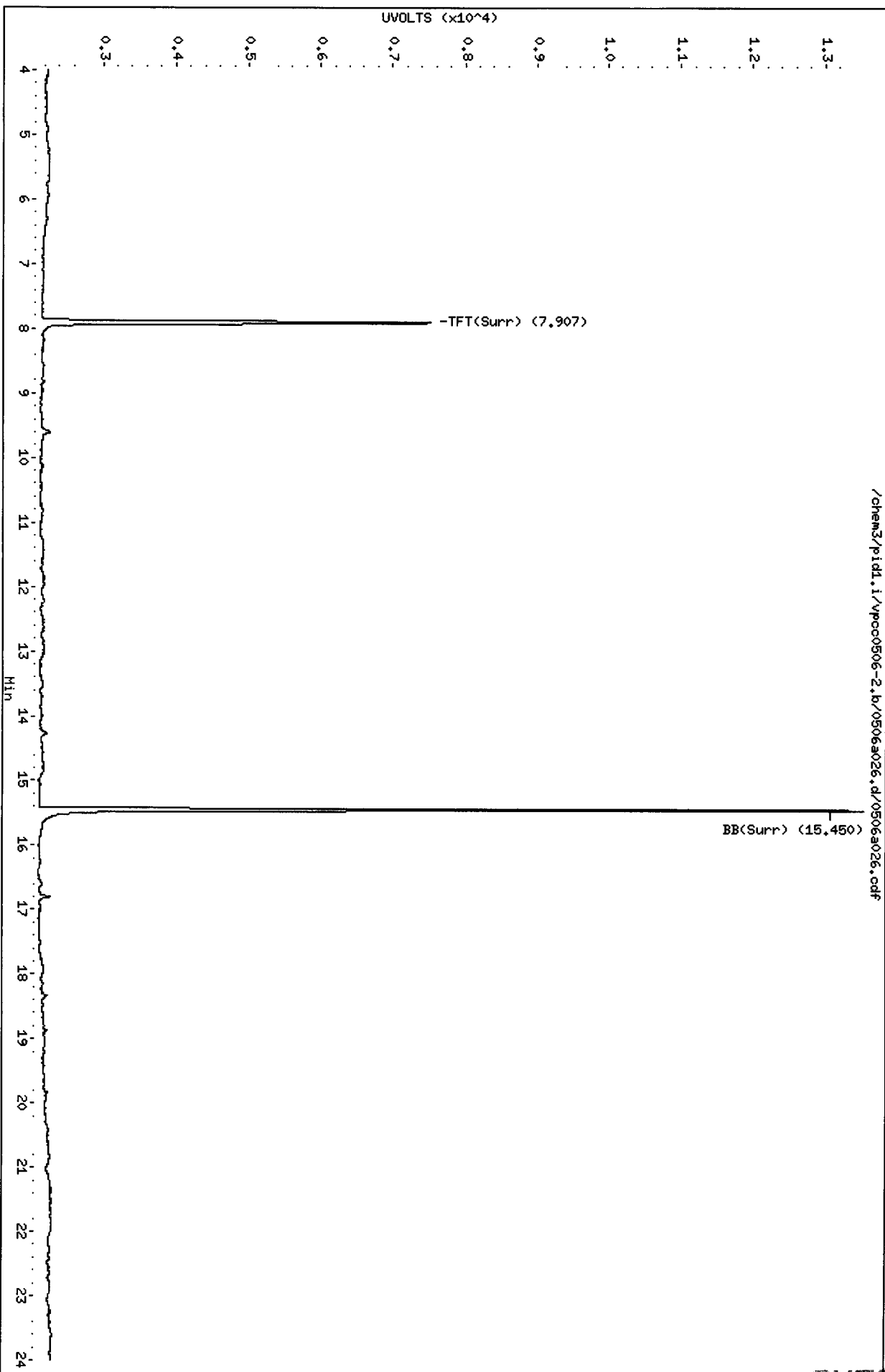


/chem3/pid1.i/vpcc0506-1.b/0506a026.d/0506a026.cdf

Data File: /chem3/pid1.i/vpcc0506-2.b/0506a026.d  
Date: 06-MAY-2011 18:13  
Client ID: B311-042911  
Sample Info: SU74C

Column phase: RTX 502-2 PID

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



44  
5/9/11

Analytical Resources Inc.  
BETX/Gas Quantitation Report

Data file 1: /chem3/pid1.i/vpcc0506-1.b/0506a028.d    ARI ID: BCAL 3  
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a028.d    Client ID:  
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m            Injection Date: 06-MAY-2011 19:11  
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	0.001	2403	32636	92.1	TFT(Surr)
15.451	0.001	1878	15465	99.5	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 ( 9.85 to 17.94)	319505	210021	0.657
8015B 2MP-TMB ( 4.17 to 16.26)	652210	202754	0.311
AK101 nC6-nC10 ( 4.68 to 15.16)	527526	193579	0.367
NWTPHG Tol-Nap ( 9.85 to 18.95)	340084	210298	0.618

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	5088	90.9	TFT(Surr)
15.451	0.002	11697	98.4	BB(Surr)

SW8021 (PID)

RT	Shift	Response	Amount	Compound
--	-----	-----	-----	-----
7.060	-0.003	8808	23.67	Benzene
9.950	0.002	7956	23.40	Toluene
12.853	0.003	7084	24.37	Ethylbenzene
13.016	0.003	15053	46.68	M/P-Xylene
13.973	0.002	6150	24.38	O-Xylene
4.537	-0.002	1922	16.67	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/0506a028.d

Date: 06-MAY-2011 19:11

Client ID:

Sample Info: BCL 3

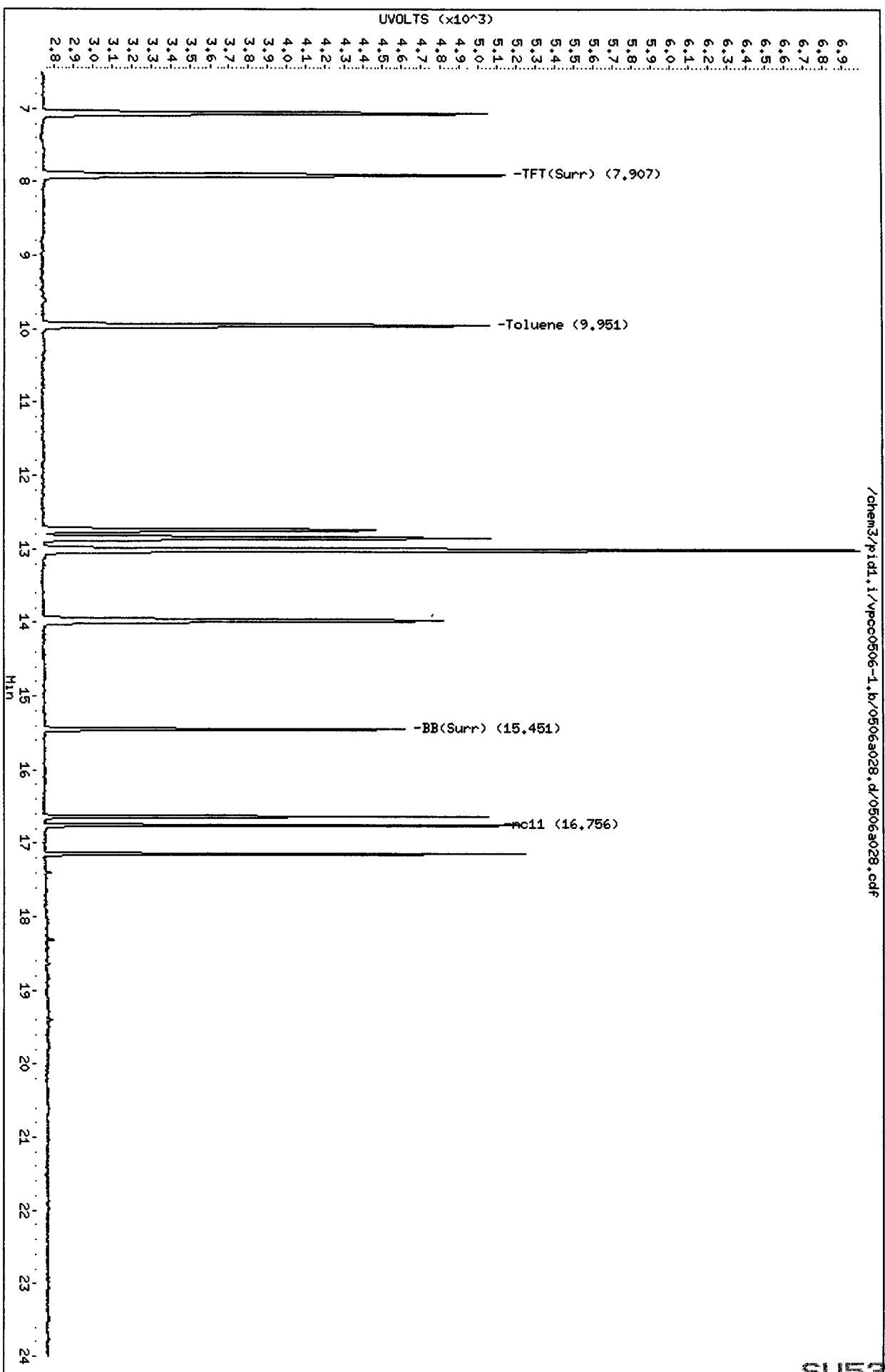
Instrument: pid1.i

Operator: MH

Column diameter: 0.18

Column phase: RTX 502-2 FID

/chem3/pid1.i/vpcc0506-1.b/0506a028.d/0506a028.cdf

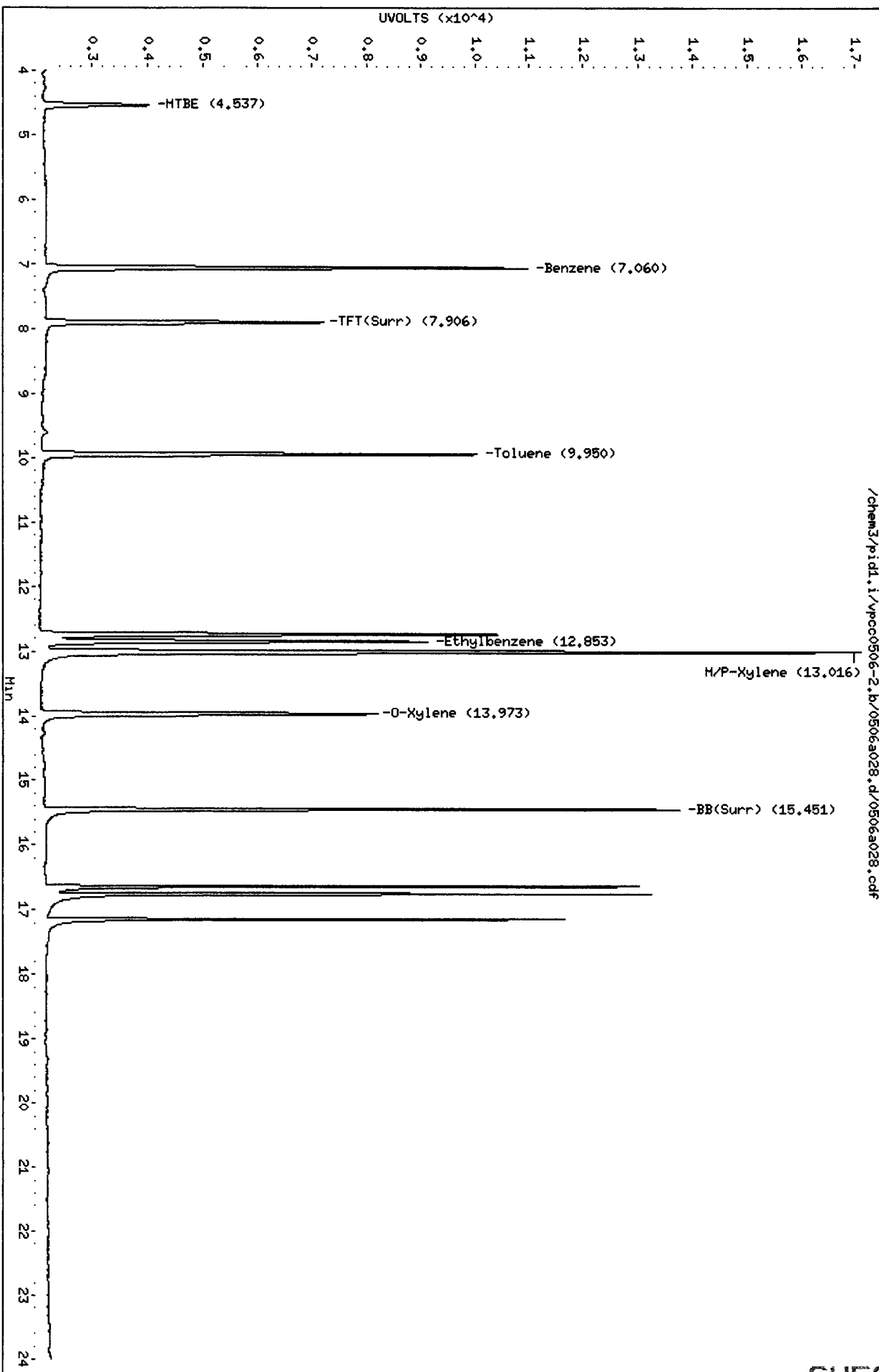


Data File: /chem3/pid1.i/vpcc0506-2.b/0506a028.d  
Date: 06-MAY-2011 19:11  
Client ID:  
Sample Info: BQAL 3

Column phase: RTX 502-2 PID

/chem3/pid1.i/vpcc0506-2.b/0506a028.d/0506a028.cdf

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/vpcc0506-1.b/0506a029.d      ARI ID: GCAL 3  
Data file 2: /chem3/pid1.i/vpcc0506-2.b/0506a029.d      Client ID:  
Method: /chem3/pid1.i/vpcc0506-2.b/PIDB.m              Injection Date: 06-MAY-2011 19:41  
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	2638	45710	101.1	TFT(Surr)
15.451	0.001	1881	16863	99.6	BB(Surr)

PETROLEUM HYDROCARBONS (FID)

Range	RF	Total Area*	Amount
WAGas Tol-C12 ( 9.85 to 17.94)	319505	744514	2.330 M
8015B 2MP-TMB ( 4.17 to 16.26)	652210	1442588	2.212 M
AK101 nC6-nC10 ( 4.68 to 15.16)	527526	1151000	2.182 M
NWTPHG Tol-Nap ( 9.85 to 18.95)	340084	786908	2.314 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	0.003	5369	95.9	TFT(Surr)
15.452	0.002	11701	98.4	BB(Surr)

SW8021 (PID)

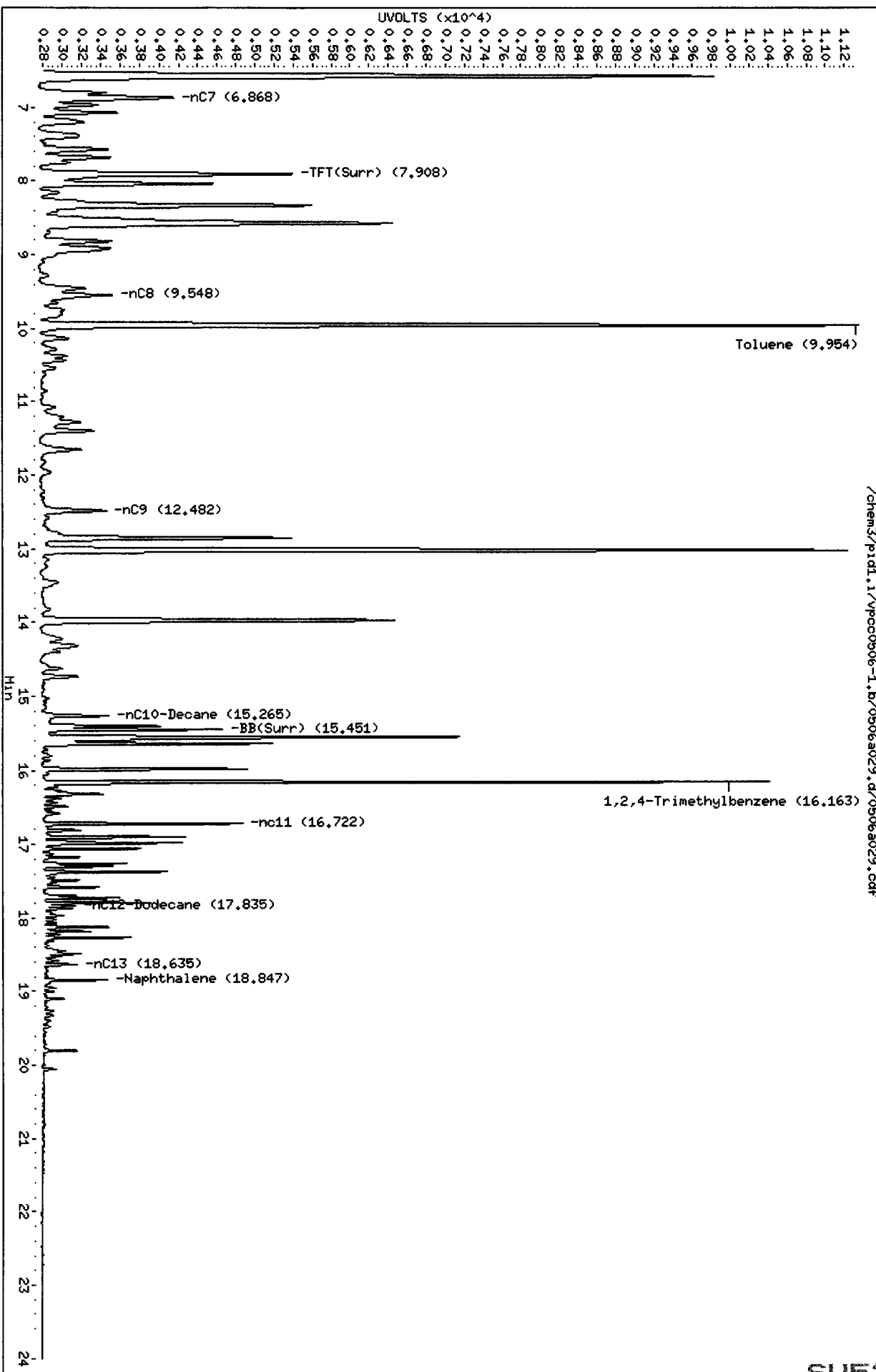
RT	Shift	Response	Amount	Compound
7.069	0.006	2978	8.00	Benzene
9.952	0.004	30478	89.63	Toluene
12.854	0.003	7758	26.69	Ethylbenzene
13.020	0.007	30638	95.00	M/P-Xylene
13.975	0.004	11088	43.95	O-Xylene
4.542	0.003	566	4.91	MTBE

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

Data File: /chem3/pid1.1/vpcc0506-1.b/0506a029.d  
Date: 06-MAY-2011 19:41  
Client ID:  
Sample Info: GCAL 3

Column phase: RTX 502-2 FID

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



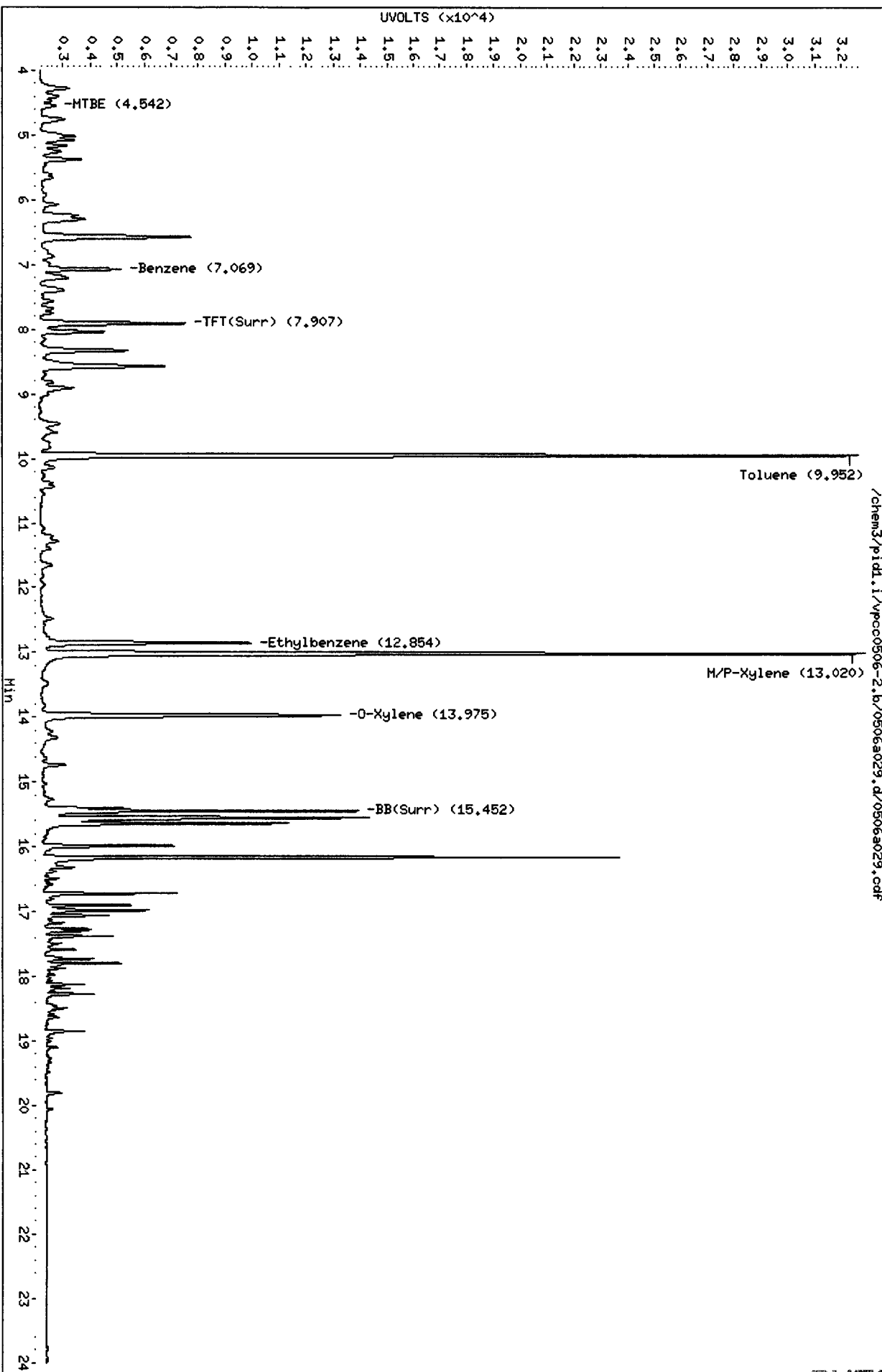
/chem3/pid1.1/vpcc0506-1.b/0506a029.d/0506a029.cdf

Data File: /chem3/pid1.i/vpcc0506-2.b/0506a029.d  
Date : 06-MAY-2011 19:41  
Client ID:  
Sample Info: GCAL 3

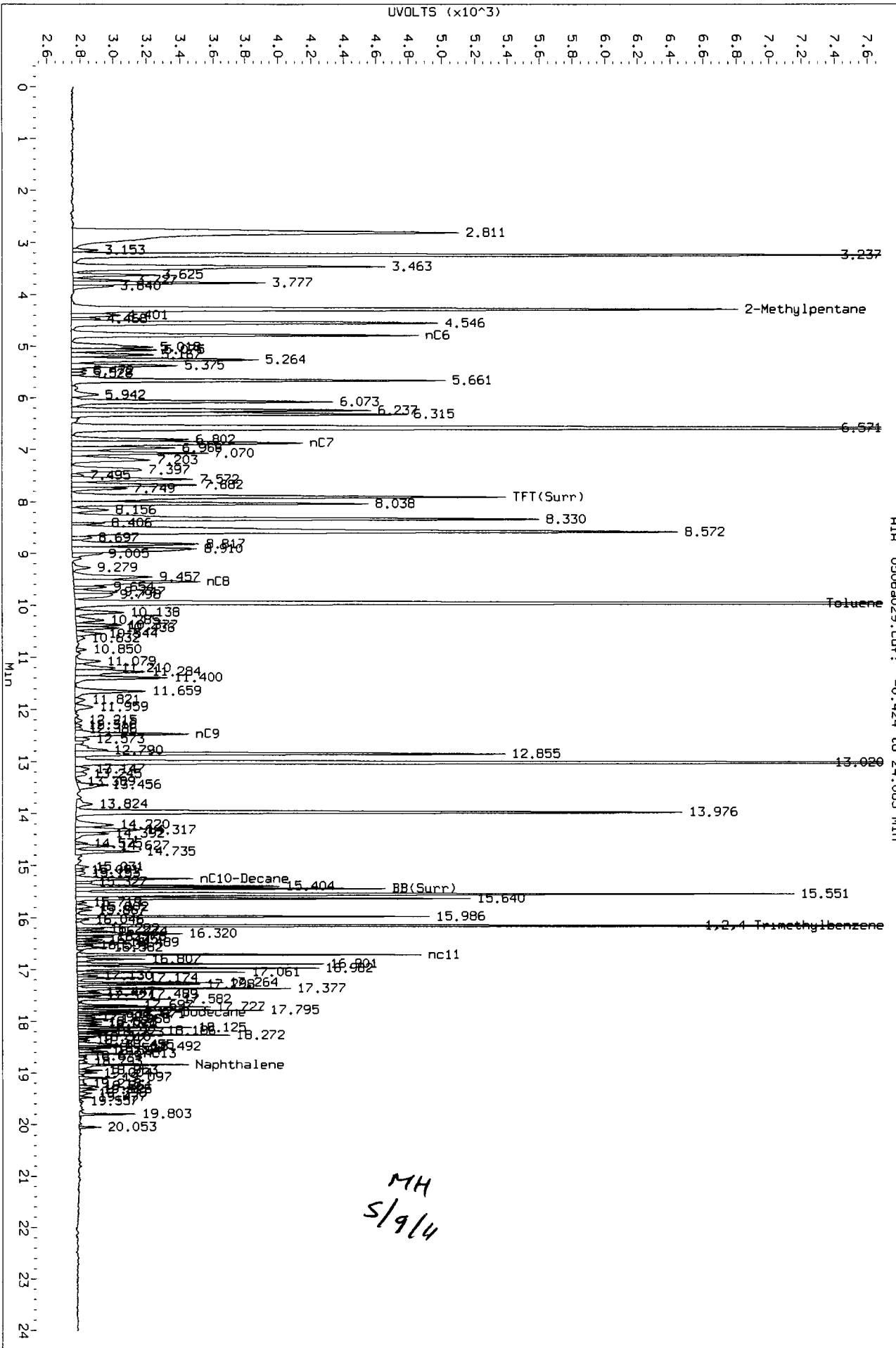
Column phase: RTX 502-2 PID

/chem3/pid1.i/vpcc0506-2.b/0506a029.d/0506a029.cdf

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

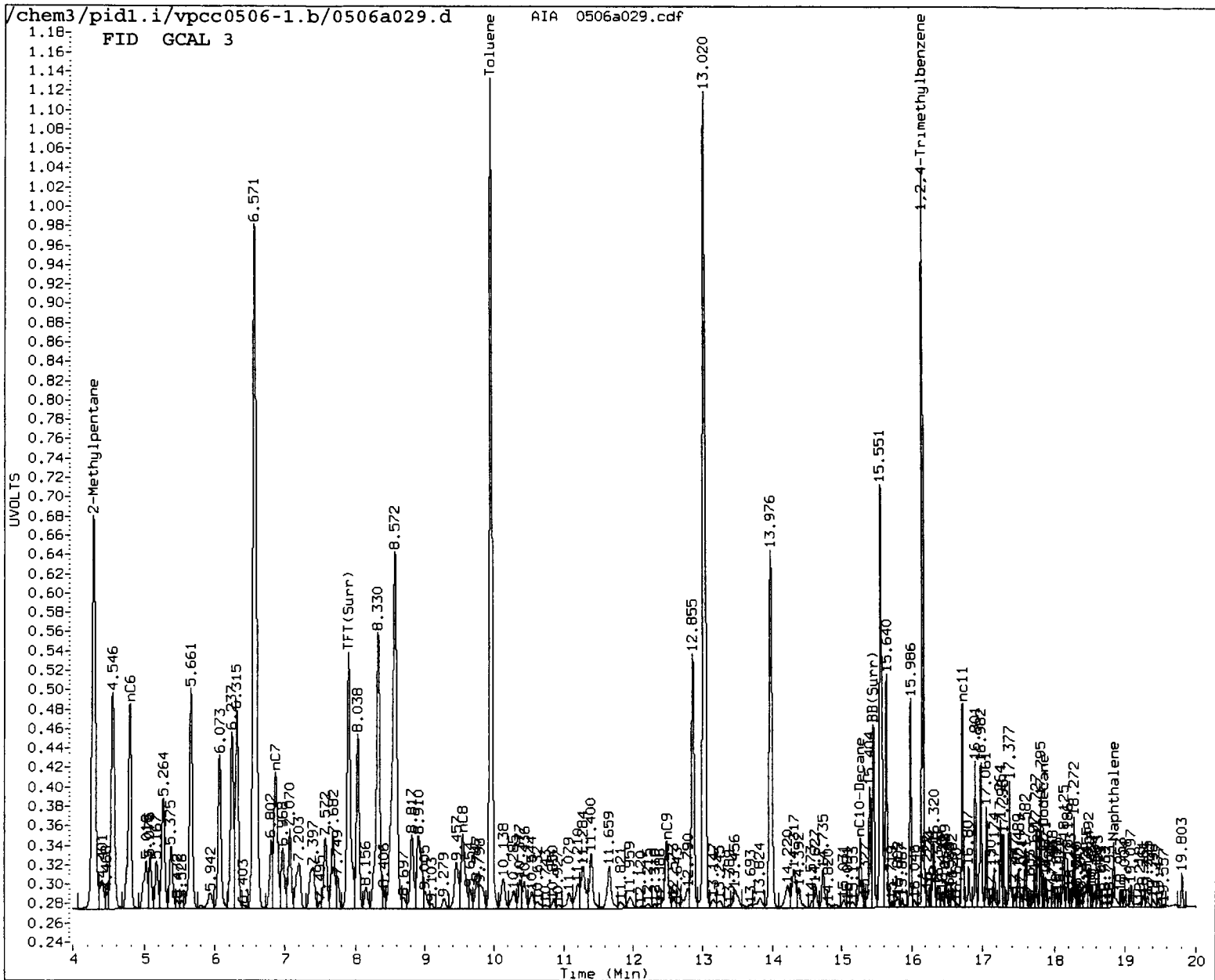


Data File: /chem3/pid1.1/vpcc0506-1.b/0506a029.d/0506a029.cdf  
Injection Date: 06-May-2011 19:41  
Instrument: pid1.1  
Client Sample ID:



AIA 0506a029.cdf: -0.424 to 24.083 Min

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

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

**ARI Job ID: SU53, SU73, SU74**





# SPIKING LOG

Analyst: KM

Date: 5/03/11

Final Volume 25

Final Volume (Hg): \_\_\_\_\_

Sample ID ST98 DSPK, MBISPK  
SUS3 ASPK, MBISPK

Prepcode:	ICP Routine	ICP No GFA	GFA
Spike Solution:			
Standard No.:			
Vol Added (mL):			
Ag	50		2.0
Al	200	200	
As	200		10
Ba	200	200	
Be	50	50	
Ca	1000	1000	
Cd	50		2.0
Co	50	50	
Cr	50	50	
Cu	50	50	
Fe	200	200	
K	1000	1000	
Mg	1000	1000	
Mn	50	50	
Na	1000	1000	
Ni	50	50	
Pb	200		10
Se	200		10
Sr	50	50	
Tl	200		10
V	50	50	
Zn	50	50	

ICP-MS #1	ICP-MS #2	ICP-MS Minerals
<b>REN</b>		
<u>2809-8</u>		
<u>0.05</u>		
Ag	25	
Al		500
As	25 ✓	
Ba	25	
Be	25	
Ca		500
Cd	25	
Co	25	
Cr	25	
Cu	25	
Fe		500
K		500
Mg		500
Mn	25	
Mo		25
Na		500
Ni	25	
Pb	25 ✓	
Sb		25
Se	80	
Tl	25	
U	25	
V	25	
Zn	80	

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std No.
Hg		CVA	1.0		
Hg MBSPK		CVA	1.0		
Sb		ICP	2000		
Sb		GFA	100		
B		ICP	500		
Mo		ICP	500		
Si		ICP	10000		
Sn		ICP	500		
Ti		ICP	2000		

Additional Elements:

Element	Prepcode	Analysis	Stock Conc.	Stock Added	Std. No.

SUS3 : 01253



# 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)	
SU47 A	9	✓	50.0	25.0			
" B	9	✓					
" MBI	—	✓					
" MBISPK	—	✓					
SU47 C	1	—					} Filtered in lab
" D	1	—					
" MB2	—	—					
" MB2SPK	—	—					
SU45 A	9	✓					
" B	9	✓					
" C	9	✓					
" MBI	—	✓					
" MBISPK	—	✓					
" E	1	—					} Filtered in lab
" F	1	—					
" G	1	—					
" MB2	—	—					
" MB2SPK	—	—					
SU53 A	3	—					
" ADUP	3	—					
" ASPK	3	—					
" C	3	—					
" E	3	—					
" MBI	—	—	✓	✓			
" MBISPK	—	—	50.0	25.0			

Chemical/Reagent ID:

HNO<sub>3</sub>: MP2088 HCl: — H<sub>2</sub>O<sub>2</sub>: I6129 Tube Lot #: 1010191

**SPIKING LOG**

Analyst: KM Final Volume 25 Sample ID SU73 ASPK, MBSPK

Date: 5/05/11 Final Volume (Hg): \_\_\_\_\_

Precode:	ICP Routine	ICP No GFA	GFA
Spike Solution:			
Standard No.:			
Vol Added (mL):			
Ag	50		2.0
Al	200	200	
As	200		10
Ba	200	200	
Be	50	50	
Ca	1000	1000	
Cd	50		2.0
Co	50	50	
Cr	50	50	
Cu	50	50	
Fe	200	200	
K	1000	1000	
Mg	1000	1000	
Mn	50	50	
Na	1000	1000	
Ni	50	50	
Pb	200		10
Se	200		10
Sr	50	50	
Tl	200		10
V	50	50	
Zn	50	50	

ICP-MS #1	ICP-MS #2	ICP-MS Minerals
REN		
2809-B		
0.05		
Ag	25	
Al		500
As	25 ✓	
Ba	25	
Be	25	
Ca		500
Cd	25	
Co	25	
Cr	25	
Cu	25	
Fe		500
K		500
Mg		500
Mn	25	
Mo		25
Na		500
Ni	25	
Pb	25 ✓	
Sb		25
Se	80	
Tl	25	
U	25	
V	25	
Zn	80	

Element	Precode	Analysis	Stock Conc.	Stock Added	Std No.
Hg		CVA	1.0		
Hg MBSPK		CVA	1.0		
Sb		ICP	2000		
Sb		GFA	100		
B		ICP	500		
Mo		ICP	500		
Si		ICP	10000		
Sn		ICP	500		
Ti		ICP	2000		

Additional Elements:

Element	Precode	Analysis	Stock Conc.	Stock Added	Std. No.

SU53: 01255



# Digestion Log

Analyst: KM Date: 5/05/11  
 Matrix: Water Block ID: #12 Block Temp: 92°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)	
SU73 A	9	✓	50.0	25.0			- Batched
" ADUP	9	✓					
" ASPK	9	✓					
" B	9	✓					
" MBI	—	✓					
" MBSPK	—	✓					
SU74 A	9	✓					
" B	9	✓					
" C	9	✓					
" D	2	✓					
SU88 A	2	✓					
" ADUP	2	✓					
" ASPK	2	✓					
" B	2	✓					
" C	2	✓					
" D	2	✓					
" E	2	✓					
" F	2	✓					
" G	2	✓					
" MB	—	✓					
" MBSPK	—	✓	50.0	25.0			
KM 5/05/11							

Chemical/Reagent ID:

HNO<sub>3</sub>: MP2088 HCl: — H<sub>2</sub>O<sub>2</sub>: I6129 Tube Lot #: 1010191

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

**ARI Job ID: SU53, SU73, SU74**



# ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 5.9.11

Analyst: REW

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			2828-15
		↓ 1			↓ -4
		↓ 2			↓ -5
		↓ 3			2829-5
		↓ 4			2828-7
		Rinse sample			no low
		ICV			2819-4
		ICB			no low
		CCV1			
		CCB1			no low
		low check			↓
		ICSA			
		ICSA B			
		LR200			
		LR300			
		CCV2			
		CCB2			no low
✓		SU15 P	REW	2	Ni G.T. IRL diff -
✓		↓ Poly	↓	↓	continuous 5.6
		SU13 E			As
		↓ K		↓	↓
		SU15 O		20	↓
		↓ C		5	Cr
✓		↓ M	↓	↓	As term 150



# ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 5.9.11

Analyst: BW

Page: 2 of 6

All corrections made by analyst unless otherwise noted.

Edt Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
	✓	SU15 N	REN	5	As serum 1/50
		↓ E	↓	50	↓
		↓ F	↓	↓	↓
		CCV3			
		CCB3			Mo low
		SU59 MBI	SUN	20	
		↓ MB1sph	↓	↓	✓
		SU13 D	REN	10	As
		↓ J	↓	↓	↓
		↓ L	↓	↓	↓
		↓ F	↓	20	↓
		SU15 G	↓	↓	↓
		SU59 Adep	SUN	↓	✓
		↓ A	↓	↓	✓
		↓ ASph	↓	↓	✓
		CCV4			
		CCB4			Mo low
		SU27 MBI	REN	2	
		↓ MB2	↓	↓	✓
		↓ MB2sph	↓	↓	✓
		↓ MB1sph	↓	↓	✓
		↓ A	↓	↓	
		↓ B	↓	↓	
		↓ C	↓	↓	



# ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 5.9.11 Analyst: BLW Page: 3 of 6

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data-	ARI Sample ID	Prep Code	Dilution	Comments
		SU27 D	REN	2	
		↓ E	↓	↓	
		SU59 B	SUN	20	
		CCV5			
		CCB5			Mo low
		SU53 MBI	REN	2	
		↓ MB1sph	↓	↓	✓
		↓ Adep	↓	↓	✓
		↓ A	↓	↓	✓
		↓ Asph	↓	↓	✓
		↓ C	↓	↓	
		↓ E	↓	↓	
		SU45 A			
		↓ B			
		SU27 F			
		CCV6			
		CCB6			Mo low
		SU45 MBI	REN	2	
		↓ MB2	↓	↓	✓
		↓ MB2sph	↓	↓	✓
		↓ MB1sph	↓	↓	
		↓ C	↓	↓	
		↓ E	↓	↓	
		↓ F	↓	↓	

*BLW*



**Metals Data Review Checklist**

Method: ICP ICP-MS GFA CVA

Analysis Date: 5.9.11

	Analyst <i>BW 5.10</i>	Peer <i>W 5.10.11</i>	Comment
<b>Books</b>			
Analyst, Date, Method info	✓	✓	
Sample ID's	✓	✓	
Standard/QC solution ID's recorded	✓	✓	
Prep codes	✓	✓	
Dilution factors	✓	✓	
Crossouts/Corrections/Deletions	✓	✓	
<b>Calibration</b>			
Blank & Standard intensities	✓	✓	
Standard deviations	✓	✓	
Curve fit	✓	✓	
<b>Calibration Verification</b>			
ICV/CCV	✓	✓	<i>see log</i>
ICB/CCB	✓	✓	<i>↓</i>
<b>Samples</b>			
RSD's & SD's	✓	✓	
Internal Standards	✓	✓	
Carry-over	✓	✓	
<b>Method QC</b>			
CRI/CRA	✓	✓	
ICSA/ICSAB	✓	✓	
Post Spikes/Serial Dilutions	—	—	
Analytic Spikes	—	—	
<b>Matrix QC</b>			
SRM/LCS	✓	✓	
Matrix Spikes	✓	✓	
Matrix Duplicates	✓	✓	
Method Blanks	✓	✓	
<b>Data Distribution</b>			
Requested elements/isotope identified	✓	✓	
Correct samples identified for distribution	✓	✓	
Raw data match distributed data	✓	✓	
Data filename correct	✓	✓	
<b>Necessary Analysts Notes and CAP's</b>	—	✓	

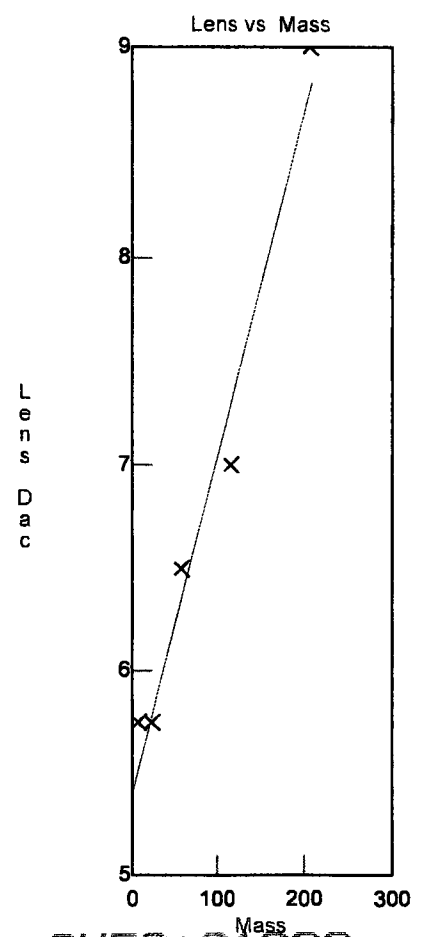
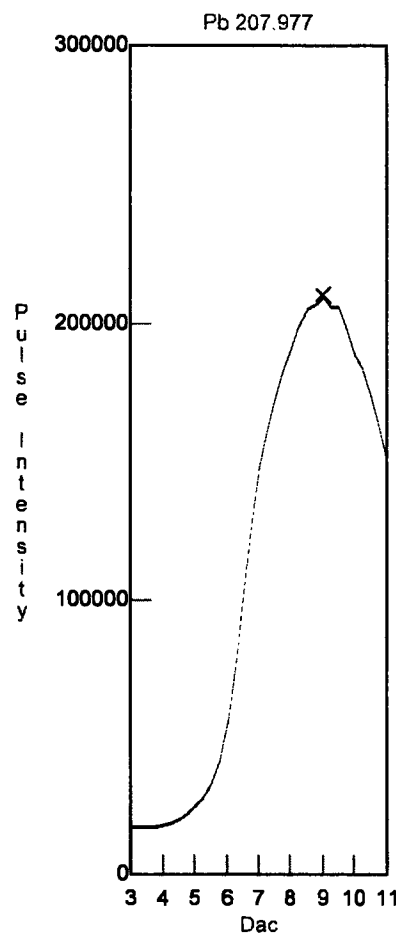
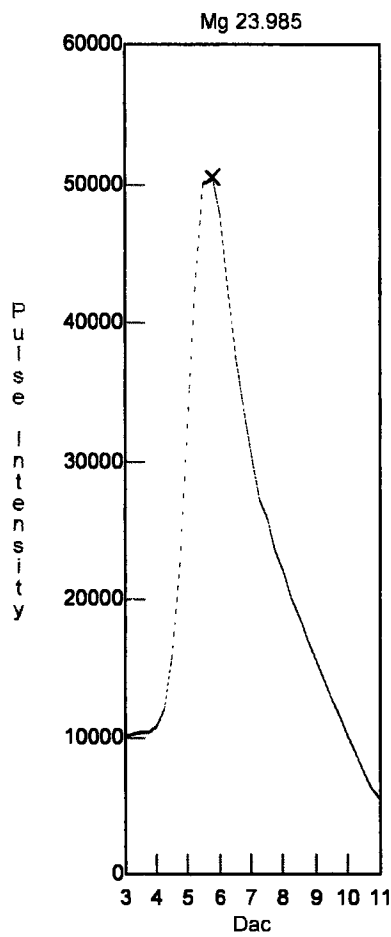
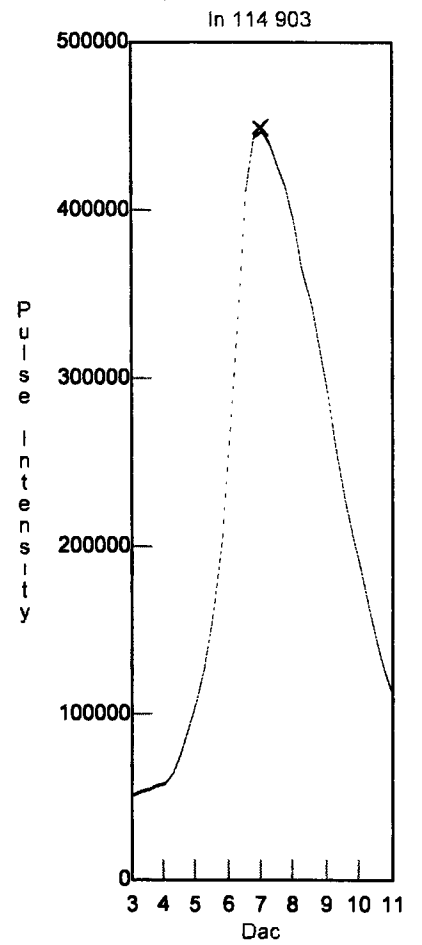
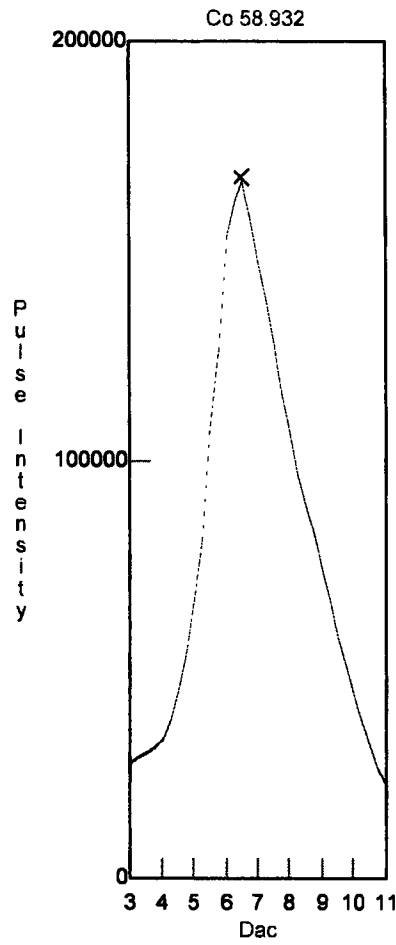
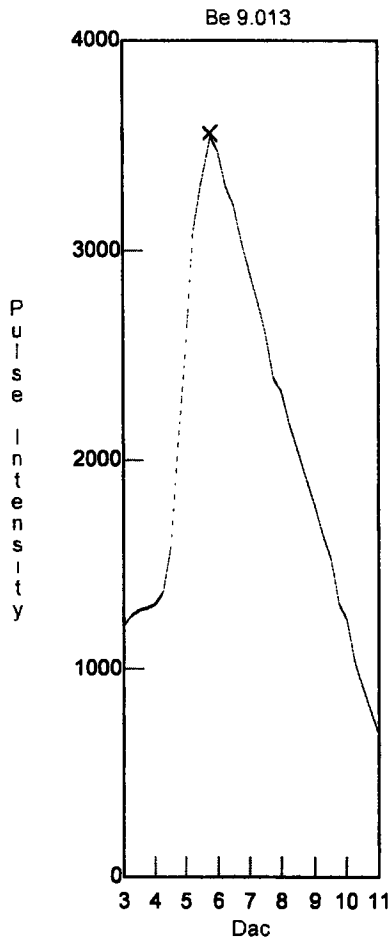
# Instrument Tuning Report

1st

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	9.026 ✓	2028	2168	0.710	
Mg	23.985	23.979 ✓	5652	2275	0.722	
Co	58.933	58.979 ✓	14152	2544	0.715	✓
In	114.904	114.928 ✓	27770	2995	0.698	
Pb	207.977	207.976 ✓	50420	3749	0.716	

59-11



# Daily Performance Report

Sample ID: Sample

Sample Date/Time: Monday, May 09, 2011 11:19:47

Sample Description:

Sample File: 1120.sam

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

Dataset File: c:\elandata\Dataset\daily performance\Sample.7531

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

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

Number of Replicates: 5

Dual Detector Mode: Pulse

*web 6.96*

## Summary

Analyte	Mass	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Mg	24	50139.150	646.834	1.290
In	115	419030.386	3416.468	0.815
Pb	208	212404.395	1150.838	0.542
[> Ba	138	302759.985	2427.238	0.802
[ Ba++	69	0.013	0.000	3.294
[> Ce	140	360050.589	817.557	0.227
[ CeO	156	0.023	0.001	3.032
Bkgd	220	4.750	3.792	79.820

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: Blank

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, May 09, 2011 11:39:21

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:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L				356289	1
[ Be	9		ug/L				3	78
C	13		mg/L				4456	0
Cl	37		mg/L				2690010	0
> Sc	45		ug/L				264393	0
V-1	51		ug/L				2140	3
V	51		ug/L				975	3
Cr	52		ug/L				6591	1
Cr	53		ug/L				372	4
Mn	55		ug/L				350	9
[ Co	59		ug/L				42	15
> Ge	72		ug/L				385276	0
Ni	60		ug/L				45	16
Ni	62		ug/L				62	6
Cu	63		ug/L				180	3
Cu	65		ug/L				100	13
Zn	66		ug/L				348	10
Zn	67		ug/L				70	13
Zn	68		ug/L				9052	1
As-1	75		ug/L				-30	98
As	75		ug/L				10544	0
Se	82		ug/L				0	1243
Se	78		ug/L				10737	0
[ Mo	98		ug/L				1921	24
Y	89		ug/L				294548	1
Kr	83		ug/L				77	0
> In	115		ug/L				417878	0
Ag	107		ug/L				26	11
Cd	111		ug/L				162	3
Cd	114		ug/L				14	15
Sb	121		ug/L				32	13
Sb	123		ug/L				25	16
Ba	135		ug/L				16	30
[ Ba	137		ug/L				21	23
> Tb	159		ug/L				395846	0
Ti	205		ug/L				25	15
Pb	208		ug/L				201	7
Bi	209		ug/L				342389	1
Th	232		ug/L				203	19
[ U	238		ug/L				20	9

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, May 09, 2011 11:47:08

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:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	345582	0
[ Be	9	10.000	ug/L	0.102	1	3	3995	1
C	13		mg/L			4456	4631	1
Cl	37		mg/L			2690010	2693463	0
> Sc	45		ug/L			264393	255434	0
V-1	51	10.000	ug/L	0.051	0	2140	120676	0
V	51	10.000	ug/L	0.045	0	975	122387	0
Cr	52	10.000	ug/L	0.125	1	6591	110104	0
Cr	53	10.000	ug/L	0.110	1	372	12988	0
Mn	55	10.000	ug/L	0.081	0	350	179100	0
[ Co	59	10.000	ug/L	0.115	1	42	138311	0
> Ge	72		ug/L			385276	375599	0
Ni	60	10.000	ug/L	0.079	0	45	29862	0
Ni	62	10.000	ug/L	0.218	2	62	4589	1
Cu	63	10.000	ug/L	0.027	0	180	70219	0
Cu	65	10.000	ug/L	0.078	0	100	33999	0
Zn	66	10.000	ug/L	0.073	0	348	22365	1
Zn	67	10.000	ug/L	0.122	1	70	3784	1
Zn	68	10.000	ug/L	0.222	2	9052	24743	1
As-1	75	10.000	ug/L	0.051	0	-30	19951	0
As	75	10.000	ug/L	0.037	0	10544	30525	0
Se	82	10.000	ug/L	0.078	0	0	1993	0
Se	78	10.000	ug/L	0.155	1	10737	15782	0
[ Mo	98	10.000	ug/L	0.098	0	1921	68696	1
Y	89		ug/L			294548	284565	1
Kr	83		ug/L			77	71	10
> In	115		ug/L			417878	401200	0
Ag	107	10.000	ug/L	0.049	0	26	131266	0
Cd	111	10.000	ug/L	0.140	1	162	32564	1
Cd	114	10.000	ug/L	0.067	0	14	76188	0
Sb	121	10.000	ug/L	0.040	0	32	114173	0
Sb	123	10.000	ug/L	0.104	1	25	86634	1
Ba	135	10.000	ug/L	0.066	0	16	25970	0
[ Ba	137	10.000	ug/L	0.107	1	21	43856	1
> Tb	159		ug/L			395846	384321	1
Tl	205	10.000	ug/L	0.108	1	25	280556	0
Pb	208	10.000	ug/L	0.140	1	201	391417	0
Bi	209		ug/L			342389	331487	0
Th	232	10.000	ug/L	0.062	0	203	505651	0
[ U	238	10.000	ug/L	0.174	1	20	535978	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, May 09, 2011 11:54:56

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:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			356289	348173	1
[ Be	9	19.996	ug/L	0.411	2	3	8037	1
C	13		mg/L			4456	4598	0
Cl	37		mg/L			2690010	2709634	0
[> Sc	45		ug/L			264393	255022	0
V-1	51	20.042	ug/L	0.011	0	2140	241399	0
V	51	20.031	ug/L	0.079	0	975	245321	0
Cr	52	20.050	ug/L	0.230	1	6591	216118	1
Cr	53	20.016	ug/L	0.108	0	372	25675	0
Mn	55	19.979	ug/L	0.022	0	350	355407	0
Co	59	20.017	ug/L	0.159	0	42	277358	0
[> Ge	72		ug/L			385276	374506	1
Ni	60	20.033	ug/L	0.311	1	45	60002	1
Ni	62	20.102	ug/L	0.393	1	62	9325	1
Cu	63	20.009	ug/L	0.172	0	180	140168	0
Cu	65	20.019	ug/L	0.132	0	100	68028	1
Zn	66	20.057	ug/L	0.306	1	348	44897	1
Zn	67	20.107	ug/L	0.245	1	70	7680	0
Zn	68	20.031	ug/L	0.083	0	9052	40796	0
As-1	75	20.048	ug/L	0.174	0	-30	40295	0
As	75	20.022	ug/L	0.237	1	10544	50848	0
Se	82	20.017	ug/L	0.057	0	0	3991	0
Se	78	19.935	ug/L	0.424	2	10737	20865	0
[ Mo	98	20.045	ug/L	0.082	0	1921	136635	0
Y	89		ug/L			294548	283380	0
Kr	83		ug/L			77	83	6
[> In	115		ug/L			417878	402781	0
Ag	107	20.001	ug/L	0.208	1	26	263600	0
Cd	111	19.996	ug/L	0.264	1	162	65159	0
Cd	114	20.025	ug/L	0.051	0	14	153920	0
Sb	121	20.045	ug/L	0.267	1	32	231819	0
Sb	123	20.026	ug/L	0.137	0	25	175062	0
Ba	135	19.996	ug/L	0.140	0	16	52077	0
[ Ba	137	19.997	ug/L	0.250	1	21	87956	0
[> Tb	159		ug/L			395846	382605	0
Tl	205	20.040	ug/L	0.060	0	25	564291	0
Pb	208	20.042	ug/L	0.034	0	201	787407	0
Bi	209		ug/L			342389	332927	0
Th	232	20.057	ug/L	0.110	0	203	1021019	0
[ U	238	20.067	ug/L	0.083	0	20	1085486	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, May 09, 2011 12:02:45

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			356289	351623	1
[ Be	9	49.845	ug/L	0.580	1	3	19920	0
C	13		mg/L			4456	3338	2
Cl	37		mg/L			2690010	2674414	0
> Sc	45		ug/L			264393	253586	0
V-1	51	49.993	ug/L	0.540	1	2140	595249	0
V	51	49.974	ug/L	0.594	1	975	605612	0
Cr	52	49.979	ug/L	0.716	1	6591	525130	0
Cr	53	49.922	ug/L	0.835	1	372	62653	0
Mn	55	49.954	ug/L	0.630	1	350	879082	0
Co	59	49.923	ug/L	0.748	1	42	682425	0
> Ge	72		ug/L			385276	370328	0
Ni	60	49.871	ug/L	0.418	0	45	145762	0
Ni	62	49.862	ug/L	0.341	0	62	22475	0
Cu	63	49.921	ug/L	0.195	0	180	342841	0
Cu	65	49.851	ug/L	0.264	0	100	164916	0
Zn	66	49.877	ug/L	0.437	0	348	108568	0
Zn	67	49.865	ug/L	0.392	0	70	18487	0
Zn	68	49.801	ug/L	0.272	0	9052	85824	0
As-1	75	49.862	ug/L	0.283	0	-30	97801	0
As	75	49.862	ug/L	0.229	0	10544	108756	0
Se	82	49.881	ug/L	0.178	0	0	9719	0
Se	78	49.871	ug/L	0.064	0	10737	35791	0
Mo	98	50.138	ug/L	0.293	0	1921	339843	0
Y	89		ug/L			294548	280394	1
Kr	83		ug/L			77	74	5
> In	115		ug/L			417878	402399	1
Ag	107	49.858	ug/L	0.130	0	26	647274	0
Cd	111	49.908	ug/L	0.174	0	162	160782	1
Cd	114	49.987	ug/L	0.543	1	14	383323	0
Sb	121	49.924	ug/L	0.659	1	32	572417	0
Sb	123	49.896	ug/L	0.575	1	25	431196	0
Ba	135	50.040	ug/L	0.912	1	16	130688	0
Ba	137	50.020	ug/L	0.658	1	21	220194	0
> Tb	159		ug/L			395846	384829	0
Tl	205	49.916	ug/L	0.181	0	25	1401802	0
Pb	208	49.900	ug/L	0.125	0	201	1951969	0
Bi	209		ug/L			342389	333275	0
Th	232	50.528	ug/L	0.392	0	203	2731166	0
U	238	50.533	ug/L	0.175	0	20	2903954	0



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, May 09, 2011 12:10:35

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:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	346625	0
[ Be	9	100.155	ug/L	1.873	1	3	39659	0
C	13		mg/L			4456	4831	1
Cl	37		mg/L			2690010	2720632	0
> Sc	45		ug/L			264393	258037	0
V-1	51	99.831	ug/L	0.569	0	2140	1200701	0
V	51	99.867	ug/L	0.868	0	975	1225133	0
Cr	52	99.661	ug/L	0.562	0	6591	1047416	0
Cr	53	99.785	ug/L	1.398	1	372	126171	0
Mn	55	99.463	ug/L	0.688	0	350	1749442	0
Co	59	99.664	ug/L	1.292	1	42	1370879	0
> Ge	72		ug/L			385276	374947	0
Ni	60	99.560	ug/L	1.383	1	45	290323	1
Ni	62	99.517	ug/L	0.341	0	62	44638	0
Cu	63	99.374	ug/L	1.084	1	180	676687	1
Cu	65	99.654	ug/L	0.419	0	100	329876	0
Zn	66	99.589	ug/L	0.180	0	348	216184	0
Zn	67	99.293	ug/L	0.578	0	70	36348	0
Zn	68	99.346	ug/L	1.126	1	9052	161254	0
As-1	75	99.896	ug/L	0.543	0	-30	197730	0
As	75	99.878	ug/L	0.517	0	10544	209461	0
Se	82	99.574	ug/L	0.434	0	0	19369	0
Se	78	99.524	ug/L	0.283	0	10737	61110	0
Mo	98	99.759	ug/L	0.932	0	1921	677333	0
Y	89		ug/L			294548	280138	0
Kr	83		ug/L			77	89	8
> In	115		ug/L			417878	403057	0
Ag	107	99.608	ug/L	0.260	0	26	1278533	0
Cd	111	99.858	ug/L	0.848	0	162	320551	0
Cd	114	99.853	ug/L	0.759	0	14	763238	0
Sb	121	100.072	ug/L	0.366	0	32	1152106	0
Sb	123	100.078	ug/L	0.508	0	25	868576	0
Ba	135	100.128	ug/L	0.723	0	16	263064	0
Ba	137	100.018	ug/L	0.492	0	21	441313	0
> Tb	159		ug/L			395846	382083	1
Tl	205	101.234	ug/L	0.625	0	25	2943713	0
Pb	208	100.530	ug/L	0.996	0	201	3974135	0
Bi	209		ug/L			342389	327146	0
Th	232	100.467	ug/L	1.088	1	203	5476464	0
U	238	100.306	ug/L	1.278	1	20	5781368	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: Rinse Sample

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, May 09, 2011 12:18:09

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			356289	355802	1
[ Be	9	0.009	ug/L	0.014	156	3	7	83
C	13		mg/L			4456	4376	2
Cl	37		mg/L			2690010	2823376	0
> Sc	45		ug/L			264393	265288	1
V-1	51	-0.004	ug/L	0.008	216	2140	2102	5
V	51	0.000	ug/L	0.004	1345	975	983	5
Cr	52	-0.019	ug/L	0.019	100	6591	6412	1
Cr	53	-0.005	ug/L	0.017	325	372	366	5
Mn	55	0.010	ug/L	0.001	13	350	531	5
[ Co	59	0.009	ug/L	0.002	25	42	172	19
> Ge	72		ug/L			385276	388495	0
Ni	60	0.005	ug/L	0.003	62	45	61	16
Ni	62	-0.016	ug/L	0.016	98	62	55	13
Cu	63	0.009	ug/L	0.001	13	180	247	3
Cu	65	0.009	ug/L	0.004	45	100	131	10
Zn	66	-0.060	ug/L	0.008	13	348	217	8
Zn	67	-0.031	ug/L	0.010	31	70	59	6
Zn	68	-0.318	ug/L	0.097	30	9052	8622	1
As-1	75	0.026	ug/L	0.009	36	-30	21	89
As	75	-0.074	ug/L	0.060	80	10544	10478	0
Se	82	0.019	ug/L	0.009	49	0	4	42
Se	78	-0.375	ug/L	0.237	63	10737	10628	0
[ Mo	98	-0.229	ug/L	0.005	2	1921	332	10
Y	89		ug/L			294548	291292	1
Kr	83		ug/L			77	77	1
> In	115		ug/L			417878	417811	0
Ag	107	0.020	ug/L	0.004	20	26	286	17
Cd	111	0.017	ug/L	0.002	12	162	217	2
Cd	114	0.008	ug/L	0.003	45	14	75	35
Sb	121	0.056	ug/L	0.007	12	32	700	11
Sb	123	0.058	ug/L	0.015	26	25	543	24
Ba	135	0.012	ug/L	0.004	29	16	48	19
[ Ba	137	0.009	ug/L	0.002	22	21	64	14
> Tb	159		ug/L			395846	389005	0
Tl	205	0.010	ug/L	0.002	20	25	333	19
Pb	208	0.011	ug/L	0.003	26	201	635	18
Bi	209		ug/L			342389	343840	0
Th	232	0.049	ug/L	0.002	3	203	2942	3
[ U	238	0.010	ug/L	0.002	21	20	620	20

## Quantitative Analysis - Calibration Report

Sample Date/Time: Monday, May 09, 2011 12:10:35

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\050911.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	0.0465	10	20	50	100	
V	51	1.0000	0.0475	10	20	50	100	
Cr	52	1.0000	0.0405	10	20	50	100	
Cr	53	1.0000	0.0049	10	20	50	100	
Mn	55	1.0000	0.0682	10	20	50	100	
Co	59	1.0000	0.0533	10	20	50	100	
Ge	72							
Ni	60	1.0000	0.0078	10	20	50	100	
Ni	62	1.0000	0.0012	10	20	50	100	
Cu	63	0.9999	0.0182	10	20	50	100	
Cu	65	1.0000	0.0088	10	20	50	100	
Zn	66	1.0000	0.0058	10	20	50	100	
Zn	67	0.9999	0.0010	10	20	50	100	
Zn	68	0.9999	0.0041	10	20	50	100	
As-1	75	1.0000	0.0053	10	20	50	100	
As	75	1.0000	0.0053	10	20	50	100	
Se	82	1.0000	0.0005	10	20	50	100	
Se	78	1.0000	0.0014	10	20	50	100	
Mo	98	1.0000	0.0181	10	20	50	100	
Y	89							
Kr	83							
In	115							
Ag	107	1.0000	0.0318	10	20	50	100	
Cd	111	1.0000	0.0080	10	20	50	100	
Cd	114	1.0000	0.0190	10	20	50	100	
Sb	121	1.0000	0.0286	10	20	50	100	
Sb	123	1.0000	0.0215	10	20	50	100	
Ba	135	1.0000	0.0065	10	20	50	100	
Ba	137	1.0000	0.0109	10	20	50	100	
Tb	159							
Tl	205	0.9997	0.0761	10	20	50	100	
Pb	208	1.0000	0.1035	10	20	50	100	
Bi	209							
Th	232	0.9999	0.1427	10	20	50	100	
U	238	0.9999	0.1509	10	20	50	100	

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICV

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, May 09, 2011 12:25:23

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	349429	0
[ Be	9	50.878	ug/L	0.487	0	3	20313	1
C	13		mg/L			4456	7028	0
Cl	37		mg/L			2690010	2769554	0
> Sc	45		ug/L			264393	259708	0
V-1	51	49.851	ug/L	0.408	0	2140	604536	1
V	51	49.750	ug/L	0.133	0	975	614782	0
Cr	52	50.173	ug/L	0.186	0	6591	533954	0
Cr	53	49.840	ug/L	0.693	1	372	63613	1
Mn	55	50.136	ug/L	0.083	0	350	887754	0
[ Co	59	50.830	ug/L	0.496	0	42	703787	1
> Ge	72		ug/L			385276	379442	0
Ni	60	50.666	ug/L	0.177	0	45	149540	0
Ni	62	50.122	ug/L	1.297	2	62	22781	2
Cu	63	50.555	ug/L	0.087	0	180	348476	0
Cu	65	50.442	ug/L	0.193	0	100	169024	0
Zn	66	49.898	ug/L	0.106	0	348	109786	0
Zn	67	50.356	ug/L	0.842	1	70	18688	1
Zn	68	49.965	ug/L	0.466	0	9052	86505	0
As-1	75	49.864	ug/L	0.463	0	-30	99864	0
As	75	50.001	ug/L	0.295	0	10544	111302	0
Se	82	78.490	ug/L	0.952	1	0	15450	0
Se	78	78.181	ug/L	0.278	0	10737	50847	0
[ Mo	98	49.096	ug/L	0.447	0	1921	338304	0
Y	89		ug/L			294548	283405	0
Kr	83		ug/L			77	82	11
> In	115		ug/L			417878	408361	0
Ag	107	49.124	ug/L	0.585	1	26	638831	0
Cd	111	49.680	ug/L	0.185	0	162	161656	0
Cd	114	49.454	ug/L	0.102	0	14	382993	0
Sb	121	49.398	ug/L	0.336	0	32	576203	0
Sb	123	49.527	ug/L	0.443	0	25	435512	0
Ba	135	49.354	ug/L	0.412	0	16	131383	0
[ Ba	137	49.755	ug/L	0.801	1	21	222423	1
> Tb	159		ug/L			395846	383624	0
Tl	205	48.446	ug/L	0.377	0	25	1414457	0
Pb	208	49.273	ug/L	0.278	0	201	1955910	0
Bi	209		ug/L			342389	335821	1
Th	232	51.198	ug/L	0.254	0	203	2802390	0
[ U	238	49.550	ug/L	0.305	0	20	2867723	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICB

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, May 09, 2011 12:32:38

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\Caldata\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	370126	0
[ Be	9	-0.001	ug/L	0.007	520	3	2	98
C	13		mg/L			4456	4374	1
Cl	37		mg/L			2690010	2741987	0
> Sc	45		ug/L			264393	265925	1
V-1	51	0.016	ug/L	0.005	30	2140	2354	2
V	51	-0.010	ug/L	0.003	31	975	849	5
Cr	52	0.013	ug/L	0.019	148	6591	6766	2
Cr	53	-0.070	ug/L	0.008	11	372	283	3
Mn	55	0.006	ug/L	0.001	17	350	457	3
Co	59	0.006	ug/L	0.001	10	42	125	7
> Ge	72		ug/L			385276	383213	0
Ni	60	0.002	ug/L	0.001	50	45	49	5
Ni	62	-0.002	ug/L	0.030	1422	62	61	23
Cu	63	0.003	ug/L	0.003	86	180	200	9
Cu	65	0.004	ug/L	0.002	43	100	114	5
Zn	66	-0.072	ug/L	0.008	11	348	187	10
Zn	67	-0.039	ug/L	0.025	64	70	55	17
Zn	68	-0.164	ug/L	0.105	63	9052	8745	0
As-1	75	-0.004	ug/L	0.005	126	-30	-39	28
As	75	0.018	ug/L	0.016	89	10544	10524	0
Se	82	-0.022	ug/L	0.058	260	0	-3	301
Se	78	0.074	ug/L	0.060	81	10737	10717	0
Mo	98	-0.247	ug/L	0.001	0	1921	201	2
Y	89		ug/L			294548	293316	0
Kr	83		ug/L			77	78	9
> In	115		ug/L			417878	422860	1
Ag	107	0.014	ug/L	0.003	24	26	212	21
Cd	111	0.013	ug/L	0.005	42	162	206	9
Cd	114	0.005	ug/L	0.002	47	14	52	33
Sb	121	0.021	ug/L	0.002	10	32	291	10
Sb	123	0.023	ug/L	0.003	15	25	234	14
Ba	135	0.003	ug/L	0.002	77	16	25	26
Ba	137	0.002	ug/L	0.001	28	21	32	10
> Tb	159		ug/L			395846	403967	0
Tl	205	0.007	ug/L	0.001	14	25	235	13
Pb	208	0.006	ug/L	0.001	8	201	472	5
Bi	209		ug/L			342389	350057	0
Th	232	0.029	ug/L	0.000	0	203	1885	1
U	238	0.006	ug/L	0.001	15	20	405	14

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV1

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, May 09, 2011 12:39:51

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	330022	0
[ Be	9	50.012	ug/L	0.696	1	3	18858	1
C	13		mg/L			4456	3372	0
Cl	37		mg/L			2690010	2708935	0
> Sc	45		ug/L			264393	240124	1
V-1	51	50.589	ug/L	0.490	0	2140	567152	0
V	51	50.560	ug/L	0.618	1	975	577607	0
Cr	52	50.345	ug/L	0.194	0	6591	495350	0
Cr	53	50.270	ug/L	0.641	1	372	59317	0
Mn	55	50.218	ug/L	0.571	1	350	822084	0
[ Co	59	50.438	ug/L	0.533	1	42	645638	0
> Ge	72		ug/L			385276	352318	0
Ni	60	50.568	ug/L	0.174	0	45	138586	0
Ni	62	50.096	ug/L	0.359	0	62	21142	0
Cu	63	51.123	ug/L	0.061	0	180	327196	0
Cu	65	50.155	ug/L	0.553	1	100	156045	0
Zn	66	50.304	ug/L	0.559	1	348	102762	0
Zn	67	51.078	ug/L	0.084	0	70	17600	0
Zn	68	51.037	ug/L	0.754	1	9052	81865	0
As-1	75	50.415	ug/L	0.363	0	-30	93749	0
As	75	50.715	ug/L	0.337	0	10544	104682	0
Se	82	49.825	ug/L	0.357	0	0	9107	0
Se	78	51.069	ug/L	0.349	0	10737	34245	0
[ Mo	98	50.080	ug/L	0.126	0	1921	320388	0
Y	89		ug/L			294548	265385	0
Kr	83		ug/L			77	86	9
> In	115		ug/L			417878	380735	1
Ag	107	50.337	ug/L	0.415	0	26	610304	0
Cd	111	49.934	ug/L	0.585	1	162	151477	0
Cd	114	50.324	ug/L	0.437	0	14	363345	0
Sb	121	50.159	ug/L	0.328	0	32	545479	0
Sb	123	50.283	ug/L	0.283	0	25	412238	0
Ba	135	49.575	ug/L	0.496	1	16	123034	0
[ Ba	137	50.042	ug/L	0.505	1	21	208567	0
> Tb	159		ug/L			395846	357709	0
Tl	205	48.844	ug/L	0.530	1	25	1329700	0
Pb	208	49.798	ug/L	0.227	0	201	1843250	0
Bi	209		ug/L			342389	314906	0
Th	232	51.354	ug/L	0.499	0	203	2620905	0
[ U	238	50.892	ug/L	0.599	1	20	2746368	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB1

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, May 09, 2011 12:47:04

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> LI	6		ug/L			356289	343285	1
[ Be	9	0.002	ug/L	0.002	76	3	4	17
C	13		mg/L			4456	4185	1
Cl	37		mg/L			2690010	2747881	0
> Sc	45		ug/L			264393	247591	0
V-1	51	0.012	ug/L	0.005	46	2140	2138	3
V	51	-0.006	ug/L	0.004	60	975	845	5
Cr	52	0.019	ug/L	0.005	26	6591	6364	0
Cr	53	-0.036	ug/L	0.015	43	372	305	6
Mn	55	0.007	ug/L	0.001	16	350	446	4
Co	59	0.004	ug/L	0.001	23	42	89	12
> Ge	72		ug/L			385276	365292	0
Ni	60	0.002	ug/L	0.001	76	45	47	6
Ni	62	0.005	ug/L	0.013	293	62	61	9
Cu	63	0.001	ug/L	0.002	216	180	177	8
Cu	65	0.001	ug/L	0.006	616	100	98	19
Zn	66	-0.075	ug/L	0.002	3	348	172	2
Zn	67	-0.039	ug/L	0.026	66	70	52	18
Zn	68	0.005	ug/L	0.072	1349	9052	8590	0
As-1	75	0.021	ug/L	0.015	72	-30	10	274
As	75	0.225	ug/L	0.068	30	10544	10433	0
Se	82	0.006	ug/L	0.027	481	0	1	294
Se	78	0.822	ug/L	0.257	31	10737	10586	0
Mo	98	0.251	ug/L	0.001	0	1921	163	2
Y	89		ug/L			294548	275465	0
Kr	83		ug/L			77	77	10
> In	115		ug/L			417878	396183	0
Ag	107	0.010	ug/L	0.001	13	26	147	11
Cd	111	0.012	ug/L	0.004	31	162	192	5
Cd	114	0.003	ug/L	0.001	32	14	33	18
Sb	121	0.022	ug/L	0.002	7	32	282	5
Sb	123	0.025	ug/L	0.003	10	25	235	8
Ba	135	-0.000	ug/L	0.002	978	16	15	26
Ba	137	0.002	ug/L	0.001	75	21	27	17
> Tb	159		ug/L			395846	374422	0
Tl	205	0.004	ug/L	0.000	7	25	130	6
Pb	208	0.003	ug/L	0.001	15	201	322	6
Bi	209		ug/L			342389	328922	0
Th	232	0.034	ug/L	0.002	5	203	1992	4
U	238	0.004	ug/L	0.000	5	20	246	5

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: LOW CHECK

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, May 09, 2011 12:54:15

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	333537	0
[ Be	9	0.224	ug/L	0.004	1	3	88	0
C	13		mg/L			4456	6113	2
Cl	37		mg/L			2690010	2735792	0
> Sc	45		ug/L			264393	239092	1
V-1	51	0.232	ug/L	0.016	6	2140	4514	2
V	51	0.203	ug/L	0.006	3	975	3190	1
Cr	52	0.617	ug/L	0.016	2	6591	11929	0
Cr	53	0.503	ug/L	0.020	3	372	924	3
Mn	55	0.563	ug/L	0.012	2	350	9487	1
Co	59	0.220	ug/L	0.002	1	42	2840	0
> Ge	72		ug/L			385276	351490	0
Ni	60	0.537	ug/L	0.008	1	45	1509	1
Ni	62	0.572	ug/L	0.037	6	62	297	5
Cu	63	0.555	ug/L	0.006	1	180	3707	1
Cu	65	0.552	ug/L	0.004	0	100	1803	0
Zn	66	4.257	ug/L	0.057	1	348	8967	1
Zn	67	3.737	ug/L	0.134	3	70	1343	2
Zn	68	4.652	ug/L	0.094	2	9052	14950	0
As-1	75	0.228	ug/L	0.012	5	-30	395	6
As	75	0.675	ug/L	0.056	8	10544	10880	0
Se	82	0.564	ug/L	0.026	4	0	103	4
Se	78	2.308	ug/L	0.208	9	10737	10896	0
Mo	98	-0.052	ug/L	0.007	12	1921	1420	3
Y	89		ug/L			294548	265757	0
Kr	83		ug/L			77	72	5
> In	115		ug/L			417878	382542	0
Ag	107	0.195	ug/L	0.006	2	26	2395	2
Cd	111	0.124	ug/L	0.002	1	162	524	0
Cd	114	0.117	ug/L	0.003	2	14	861	2
Sb	121	0.219	ug/L	0.004	1	32	2422	2
Sb	123	0.223	ug/L	0.005	2	25	1863	2
Ba	135	0.534	ug/L	0.010	1	16	1347	1
Ba	137	0.541	ug/L	0.010	1	21	2283	1
> Tb	159		ug/L			395846	364701	0
Tl	205	0.212	ug/L	0.004	1	25	5896	1
Pb	208	0.110	ug/L	0.002	1	201	4321	1
Bi	209		ug/L			342389	317881	0
Th	232	0.213	ug/L	0.004	2	203	11275	2
U	238	0.203	ug/L	0.004	1	20	11164	2



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSA

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, May 09, 2011 13:01:26

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			356289	333555	1
[ Be	9	-0.001	ug/L	0.002	368	3	2	24
C	13		mg/L			4456	19340	0
Cl	37		mg/L			2690010	3943363	1
[> Sc	45		ug/L			264393	222982	1
V-1	51	0.038	ug/L	0.014	36	2140	2194	5
V	51	0.663	ug/L	0.011	1	975	7848	0
Cr	52	0.658	ug/L	0.013	2	6591	11494	0
Cr	53	2.563	ug/L	0.024	0	372	3107	1
Mn	55	0.061	ug/L	0.005	7	350	1222	6
[ Co	59	0.040	ug/L	0.001	2	42	508	0
[> Ge	72		ug/L			385276	331477	1
Ni	60	0.547	ug/L	0.019	3	45	1447	3
Ni	62	3.857	ug/L	0.206	5	62	1580	4
Cu	63	0.456	ug/L	0.008	1	180	2898	3
Cu	65	0.603	ug/L	0.010	1	100	1851	1
Zn	66	1.204	ug/L	0.008	0	348	2606	1
Zn	67	1.787	ug/L	0.020	1	70	638	2
Zn	68	0.718	ug/L	0.095	13	9052	8760	0
As-1	75	0.020	ug/L	0.017	83	-30	8	334
As	75	0.377	ug/L	0.025	6	10544	9735	1
Se	82	0.008	ug/L	0.074	924	0	2	614
Se	78	1.496	ug/L	0.143	9	10737	9910	1
[ Mo	98	432.966	ug/L	2.029	0	1921	2593295	1
Y	89		ug/L			294548	253969	0
Kr	83		ug/L			77	83	11
[> In	115		ug/L			417878	358080	1
Ag	107	0.034	ug/L	0.004	12	26	405	12
Cd	111	0.087	ug/L	0.029	33	162	387	19
Cd	114	0.708	ug/L	0.007	1	14	4822	2
Sb	121	0.054	ug/L	0.002	4	32	579	5
Sb	123	0.056	ug/L	0.001	2	25	455	0
Ba	135	0.036	ug/L	0.004	9	16	99	7
[ Ba	137	0.037	ug/L	0.006	15	21	162	14
[> Tb	159		ug/L			395846	353227	0
Tl	205	0.004	ug/L	0.000	10	25	122	8
Pb	208	0.044	ug/L	0.001	1	201	1782	1
Bi	209		ug/L			342389	297698	0
Th	232	0.056	ug/L	0.003	5	203	3000	4
[ U	238	0.002	ug/L	0.000	4	20	122	4

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSAB

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, May 09, 2011 13:08:58

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	325551	0
[ Be	9	-0.003	ug/L	0.002	75	3	2	34
C	13		mg/L			4456	17732	0
Cl	37		mg/L			2690010	3661863	1
> Sc	45		ug/L			264393	212126	1
V-1	51	-0.394	ug/L	0.101	25	2140	-2164	45
V	51	0.693	ug/L	0.017	2	975	7768	0
Cr	52	20.873	ug/L	0.285	1	6591	184518	1
Cr	53	22.895	ug/L	0.335	1	372	24027	0
Mn	55	20.652	ug/L	0.147	0	350	298831	0
[ Co	59	20.825	ug/L	0.209	1	42	235540	2
> Ge	72		ug/L			385276	319399	1
Ni	60	20.642	ug/L	0.318	1	45	51302	1
Ni	62	23.680	ug/L	0.122	0	62	9087	0
Cu	63	20.351	ug/L	0.169	0	180	118160	0
Cu	65	20.174	ug/L	0.201	0	100	56953	1
Zn	66	20.328	ug/L	0.128	0	348	37821	1
Zn	67	19.043	ug/L	0.138	0	70	5985	0
Zn	68	19.692	ug/L	0.067	0	9052	33245	1
As-1	75	19.737	ug/L	0.195	0	-30	33259	1
As	75	19.947	ug/L	0.250	1	10544	42632	1
Se	82	-0.006	ug/L	0.052	917	0	0	2827
Se	78	1.496	ug/L	0.230	15	10737	9549	1
[ Mo	98	431.392	ug/L	2.279	0	1921	2489744	0
Y	89		ug/L			294548	247195	0
Kr	83		ug/L			77	83	6
> In	115		ug/L			417878	344884	0
Ag	107	19.094	ug/L	0.083	0	26	209733	0
Cd	111	19.362	ug/L	0.151	0	162	53289	0
Cd	114	19.859	ug/L	0.081	0	14	129897	0
Sb	121	0.050	ug/L	0.002	4	32	522	4
Sb	123	0.051	ug/L	0.005	10	25	402	9
Ba	135	0.060	ug/L	0.008	13	16	148	12
[ Ba	137	0.062	ug/L	0.006	9	21	252	8
> Tb	159		ug/L			395846	352492	0
Tl	205	0.002	ug/L	0.000	25	25	66	16
Pb	208	0.042	ug/L	0.002	4	201	1714	3
Bi	209		ug/L			342389	289871	0
Th	232	0.027	ug/L	0.001	3	203	1548	3
[ U	238	0.000	ug/L	0.000	44	20	35	20

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: LR200

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, May 09, 2011 13:16:28

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	338288	0
[ Be	9	192.794	ug/L	1.480	0	3	74510	0
C	13		mg/L			4456	4898	1
Cl	37		mg/L			2690010	2452030	1
> Sc	45		ug/L			264393	229595	0
V-1	51	208.735	ug/L	2.459	1	2140	2231966	1
V	51	208.805	ug/L	2.203	1	975	2278490	1
Cr	52	199.886	ug/L	1.370	0	6591	1863560	1
Cr	53	200.671	ug/L	0.703	0	372	225460	1
Mn	55	208.316	ug/L	0.496	0	350	3259987	0
Co	59	207.982	ug/L	1.622	0	42	2545700	1
> Ge	72		ug/L			385276	336616	1
Ni	60	197.892	ug/L	1.285	0	45	518022	0
NI	62	196.048	ug/L	1.513	0	62	78893	1
Cu	63	196.214	ug/L	0.542	0	180	1199371	0
Cu	65	193.534	ug/L	1.087	0	100	575090	1
Zn	66	193.307	ug/L	0.480	0	348	376435	0
Zn	67	193.187	ug/L	1.061	0	70	63433	1
Zn	68	193.718	ug/L	1.216	0	9052	274783	1
As-1	75	198.471	ug/L	0.815	0	-30	352701	0
As	75	197.863	ug/L	1.125	0	10544	363480	0
Se	82	197.874	ug/L	0.564	0	0	34555	1
Se	78	195.540	ug/L	1.341	0	10737	98740	1
Mo	98	205.118	ug/L	2.199	1	1921	1248476	0
Y	89		ug/L			294548	259484	0
Kr	83		ug/L			77	93	7
> In	115		ug/L			417878	367993	0
Ag	107	202.087	ug/L	1.754	0	26	2368352	1
Cd	111	194.900	ug/L	1.176	0	162	571096	1
Cd	114	193.997	ug/L	1.531	0	14	1353850	1
Sb	121	208.242	ug/L	1.926	0	32	2188897	1
Sb	123	198.141	ug/L	1.595	0	25	1570024	0
Ba	135	196.362	ug/L	3.586	1	16	470994	1
Ba	137	198.204	ug/L	2.638	1	21	798409	1
> Tb	159		ug/L			395846	360241	1
Tl	205	198.967	ug/L	3.693	1	25	5454108	0
Pb	208	197.442	ug/L	3.591	1	201	7358030	0
Bi	209		ug/L			342389	295927	0
Th	232	203.717	ug/L	5.465	2	203	10467350	1
U	238	203.637	ug/L	2.770	1	20	11065683	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: LR300

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, May 09, 2011 13:23:57

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	324068	0
[ Be	9	297.130	ug/L	3.358	1	3	110007	1
C	13		mg/L			4456	5034	1
Cl	37		mg/L			2690010	2803700	1
> Sc	45		ug/L			264393	238697	0
V-1	51	315.738	ug/L	0.504	0	2140	3508800	0
V	51	311.896	ug/L	0.113	0	975	3537750	0
Cr	52	308.692	ug/L	1.878	0	6591	2988713	0
Cr	53	297.199	ug/L	0.263	0	372	346982	0
Mn	55	308.418	ug/L	1.288	0	350	5017665	0
Co	59	305.744	ug/L	0.322	0	42	3890528	0
> Ge	72		ug/L			385276	349156	0
Ni	60	291.313	ug/L	1.184	0	45	790985	0
Ni	62	287.204	ug/L	2.001	0	62	119858	0
Cu	63	284.266	ug/L	0.939	0	180	1802273	0
Cu	65	286.470	ug/L	1.596	0	100	882883	0
Zn	66	281.530	ug/L	1.441	0	348	568513	0
Zn	67	285.373	ug/L	0.581	0	70	97162	0
Zn	68	283.195	ug/L	1.927	0	9052	412887	0
As-1	75	292.742	ug/L	1.030	0	-30	539633	0
As	75	292.766	ug/L	0.395	0	10544	553289	0
Se	82	285.781	ug/L	1.820	0	0	51764	0
Se	78	286.136	ug/L	1.892	0	10737	145365	0
[ Mo	98	298.533	ug/L	1.452	0	1921	1884067	0
Y	89		ug/L			294548	260276	0
Kr	83		ug/L			77	113	0
> In	115		ug/L			417878	374045	0
Ag	107	305.121	ug/L	1.392	0	26	3634481	0
Cd	111	292.423	ug/L	1.176	0	162	870870	0
Cd	114	304.860	ug/L	0.622	0	14	2162532	0
Sb	121	314.215	ug/L	1.647	0	32	3357094	0
Sb	123	313.963	ug/L	4.479	1	25	2528774	1
Ba	135	294.874	ug/L	1.060	0	16	718942	0
[ Ba	137	295.936	ug/L	1.527	0	21	1211749	0
> Tb	159		ug/L			395846	354910	0
Tl	205	300.941	ug/L	2.131	0	25	8128708	0
Pb	208	309.670	ug/L	2.273	0	201	11371598	0
Bi	209		ug/L			342389	276831	0
Th	232	311.714	ug/L	1.787	0	203	15783844	0
[ U	238	308.533	ug/L	1.736	0	20	16519946	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV2

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, May 09, 2011 13:31:24

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	334951	0
[ Be	9	49.516	ug/L	0.601	1	3	18949	0
C	13		mg/L			4456	3477	2
Cl	37		mg/L			2690010	2648425	0
> Sc	45		ug/L			264393	238994	0
V-1	51	50.038	ug/L	0.540	1	2140	558378	0
V	51	50.122	ug/L	0.289	0	975	569949	0
Cr	52	50.089	ug/L	0.408	0	6591	490534	0
Cr	53	50.346	ug/L	0.691	1	372	59130	1
Mn	55	50.171	ug/L	0.595	1	350	817458	0
[ Co	59	50.082	ug/L	0.265	0	42	638093	0
> Ge	72		ug/L			385276	347303	0
Ni	60	50.439	ug/L	0.114	0	45	136261	0
Ni	62	50.157	ug/L	0.235	0	62	20867	0
Cu	63	50.942	ug/L	0.204	0	180	321400	0
Cu	65	50.968	ug/L	0.163	0	100	156320	0
Zn	66	50.432	ug/L	0.292	0	348	101559	0
Zn	67	50.670	ug/L	0.602	1	70	17211	0
Zn	68	51.012	ug/L	0.493	0	9052	80667	0
As-1	75	50.147	ug/L	0.025	0	-30	91928	0
As	75	50.391	ug/L	0.089	0	10544	102596	0
Se	82	50.377	ug/L	0.199	0	0	9077	0
Se	78	51.348	ug/L	0.487	0	10737	33889	0
[ Mo	98	50.003	ug/L	0.392	0	1921	315341	0
Y	89		ug/L			294548	263919	0
Kr	83		ug/L			77	80	1
> In	115		ug/L			417878	375535	0
Ag	107	50.017	ug/L	0.247	0	26	598183	1
Cd	111	49.604	ug/L	0.403	0	162	148437	1
Cd	114	50.513	ug/L	0.190	0	14	359752	0
Sb	121	49.871	ug/L	0.504	1	32	534944	0
Sb	123	50.260	ug/L	0.224	0	25	406433	0
Ba	135	48.761	ug/L	0.222	0	16	119373	0
[ Ba	137	49.720	ug/L	0.100	0	21	204409	0
> Tb	159		ug/L			395846	354208	0
Tl	205	48.999	ug/L	0.287	0	25	1320946	0
Pb	208	50.031	ug/L	0.276	0	201	1833731	0
Bi	209		ug/L			342389	312986	1
Th	232	52.341	ug/L	0.261	0	203	2645226	0
[ U	238	51.713	ug/L	0.384	0	20	2763564	1

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB2

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, May 09, 2011 13:38:37

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	330901	0
[ Be	9	0.007	ug/L	0.007	93	3	5	44
C	13		mg/L			4456	4090	0
Cl	37		mg/L			2690010	2717383	0
> Sc	45		ug/L			264393	242692	0
V-1	51	0.005	ug/L	0.008	172	2140	2018	4
V	51	0.042	ug/L	0.002	3	975	1382	1
Cr	52	0.015	ug/L	0.018	123	6591	6193	2
Cr	53	0.130	ug/L	0.011	8	372	496	2
Mn	55	0.014	ug/L	0.002	14	350	551	6
Co	59	0.011	ug/L	0.001	7	42	182	5
> Ge	72		ug/L			385276	358875	0
Ni	60	0.003	ug/L	0.001	36	45	50	6
Ni	62	0.024	ug/L	0.030	126	62	68	18
Cu	63	0.010	ug/L	0.003	26	180	230	7
Cu	65	0.012	ug/L	0.005	45	100	130	13
Zn	66	-0.067	ug/L	0.006	9	348	185	7
Zn	67	-0.003	ug/L	0.046	1585	70	64	24
Zn	68	0.002	ug/L	0.126	6525	9052	8434	1
As-1	75	0.016	ug/L	0.011	69	-30	1	1334
As	75	0.223	ug/L	0.049	21	10544	10248	0
Se	82	-0.021	ug/L	0.055	266	0	-3	315
Se	78	0.805	ug/L	0.198	24	10737	10393	0
Mo	98	-0.234	ug/L	0.002	0	1921	272	5
Y	89		ug/L			294548	269625	0
Kr	83		ug/L			77	75	6
> In	115		ug/L			417878	382433	0
Ag	107	0.019	ug/L	0.003	16	26	259	15
Cd	111	0.013	ug/L	0.002	11	162	188	3
Cd	114	0.008	ug/L	0.002	25	14	70	19
Sb	121	0.050	ug/L	0.004	7	32	577	7
Sb	123	0.048	ug/L	0.003	5	25	415	6
Ba	135	0.006	ug/L	0.001	21	16	30	11
Ba	137	0.006	ug/L	0.002	43	21	43	24
> Tb	159		ug/L			395846	364090	1
Tl	205	0.009	ug/L	0.001	11	25	266	10
Pb	208	0.009	ug/L	0.001	8	201	540	6
Bi	209		ug/L			342389	322581	1
Th	232	0.062	ug/L	0.004	7	203	3410	6
U	238	0.010	ug/L	0.001	8	20	562	9

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU15 P REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, May 09, 2011 13:45:49

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\050911.cal

*DC*

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	322795	0
[ Be	9	0.002	ug/L	0.006	295	3	3	57
C	13		mg/L			4456	7117	2
Cl	37		mg/L			2690010	2721188	0
> Sc	45		ug/L			264393	257709	0
V-1	51	1.105	ug/L	0.024	2	2140	15333	1
V	51	1.113	ug/L	0.010	0	975	14575	0
Cr	52	0.804	ug/L	0.026	3	6591	14809	1
Cr	53	0.848	ug/L	0.029	3	372	1431	2
Mn	55	14.011	ug/L	0.070	0	350	246428	0
[ Co	59	0.176	ug/L	0.003	1	42	2455	1
> Ge	72		ug/L			385276	346595	0
Ni	60	4.522	ug/L	0.154	3	45	12227	2
Ni	62	2.622	ug/L	0.041	1	62	1141	1
Cu	63	0.991	ug/L	0.009	0	180	6395	1
Cu	65	0.877	ug/L	0.013	1	100	2773	0
Zn	66	3.786	ug/L	0.065	1	348	7899	1
Zn	67	4.674	ug/L	0.151	3	70	1642	4
Zn	68	5.050	ug/L	0.010	0	9052	15306	1
As-1	75	13.486	ug/L	0.057	0	-30	24651	1
As	75	13.649	ug/L	0.085	0	10544	34649	1
Se	82	0.265	ug/L	0.075	28	0	48	27
Se	78	1.298	ug/L	0.099	7	10737	10270	1
[ Mo	98	0.930	ug/L	0.020	2	1921	7549	0
Y	89		ug/L			294548	264047	1
Kr	83		ug/L			77	72	6
> In	115		ug/L			417878	369288	1
Ag	107	0.012	ug/L	0.002	17	26	166	15
Cd	111	0.026	ug/L	0.006	23	162	218	7
Cd	114	0.005	ug/L	0.000	7	14	50	5
Sb	121	0.109	ug/L	0.002	1	32	1173	1
Sb	123	0.102	ug/L	0.006	5	25	832	5
Ba	135	38.422	ug/L	0.457	1	16	92495	1
[ Ba	137	38.698	ug/L	0.419	1	21	156442	0
> Tb	159		ug/L			395846	347860	0
Tl	205	0.005	ug/L	0.001	11	25	159	9
Pb	208	0.036	ug/L	0.002	5	201	1482	5
Bi	209		ug/L			342389	301303	0
Th	232	0.080	ug/L	0.004	5	203	4165	4
[ U	238	1.215	ug/L	0.006	0	20	63780	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU15 PDUP REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, May 09, 2011 13:52:21

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			356289	328941	0
[ Be	9	0.003	ug/L	0.005	175	3	4	45
C	13		mg/L			4456	7218	0
Cl	37		mg/L			2690010	2684167	0
[> Sc	45		ug/L			264393	256529	0
V-1	51	1.125	ug/L	0.009	0	2140	15504	0
V	51	1.127	ug/L	0.010	0	975	14686	0
Cr	52	0.815	ug/L	0.019	2	6591	14860	0
Cr	53	0.843	ug/L	0.027	3	372	1417	2
Mn	55	13.762	ug/L	0.204	1	350	240944	1
[ Co	59	0.179	ug/L	0.013	7	42	2488	6
[> Ge	72		ug/L			385276	337742	1
Ni	60	3.410	ug/L	0.038	1	45	8994	1
Ni	62	1.568	ug/L	0.009	0	62	687	1
Cu	63	0.966	ug/L	0.017	1	180	6084	2
Cu	65	0.842	ug/L	0.017	2	100	2596	1
Zn	66	3.491	ug/L	0.081	2	348	7121	2
Zn	67	4.360	ug/L	0.262	5	70	1496	6
Zn	68	4.637	ug/L	0.122	2	9052	14343	0
As-1	75	13.316	ug/L	0.130	0	-30	23715	0
As	75	13.439	ug/L	0.239	1	10544	33383	0
Se	82	0.197	ug/L	0.049	24	0	35	25
Se	78	1.103	ug/L	0.406	36	10737	9916	0
[ Mo	98	0.927	ug/L	0.028	3	1921	7335	1
Y	89		ug/L			294548	260377	0
Kr	83		ug/L			77	76	5
[> In	115		ug/L			417878	364386	0
Ag	107	0.008	ug/L	0.001	10	26	112	8
Cd	111	0.025	ug/L	0.008	30	162	213	10
Cd	114	0.005	ug/L	0.000	7	14	48	5
Sb	121	0.096	ug/L	0.007	7	32	1024	6
Sb	123	0.093	ug/L	0.005	4	25	752	4
Ba	135	38.998	ug/L	0.373	0	16	92638	0
[ Ba	137	39.296	ug/L	0.255	0	21	156760	0
[> Tb	159		ug/L			395846	346578	0
Tl	205	0.003	ug/L	0.001	24	25	102	19
Pb	208	0.033	ug/L	0.001	4	201	1349	4
Bi	209		ug/L			342389	301942	0
Th	232	0.037	ug/L	0.001	1	203	2031	1
[ U	238	1.229	ug/L	0.009	0	20	64302	0



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU13 E REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, May 09, 2011 13:58:55

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	288452	4
[ Be	9	0.168	ug/L	0.009	5	3	57	4
C	13		mg/L			4456	10348	1
Cl	37		mg/L			2690010	3710383	0
> Sc	45		ug/L			264393	333312	0
V-1	51	61.675	ug/L	0.286	0	2140	959231	0
V	51	60.898	ug/L	0.282	0	975	965525	0
Cr	52	10.879	ug/L	0.056	0	6591	155092	0
Cr	53	11.708	ug/L	0.215	1	372	19538	1
Mn	55	337.642	ug/L	2.503	0	350	7670328	0
[ Co	59	0.576	ug/L	0.005	0	42	10293	0
> Ge	72		ug/L			385276	349832	1
NI	60	1.397	ug/L	0.019	1	45	3840	2
NI	62	3.211	ug/L	0.084	2	62	1398	3
Cu	63	6.993	ug/L	0.086	1	180	44580	0
Cu	65	5.273	ug/L	0.048	0	100	16373	1
Zn	66	2.551	ug/L	0.071	2	348	5474	2
Zn	67	9.777	ug/L	0.197	2	70	3397	2
Zn	68	3.082	ug/L	0.114	3	9052	12631	0
As-1	75	36.107	ug/L	0.147	0	-30	66664	1
As	75	35.778	ug/L	0.171	0	10544	76152	1
Se	82	2.375	ug/L	0.144	6	0	431	7
Se	78	2.197	ug/L	0.186	8	10737	10793	1
[ Mo	98	0.442	ug/L	0.007	1	1921	4538	0
Y	89		ug/L			294548	367730	0
Kr	83		ug/L			77	95	4
> In	115		ug/L			417878	363229	0
[ Ag	107	0.057	ug/L	0.003	6	26	676	5
Cd	111	0.149	ug/L	0.040	26	162	571	21
Cd	114	0.039	ug/L	0.002	4	14	279	5
Sb	121	0.109	ug/L	0.005	4	32	1157	4
Sb	123	0.109	ug/L	0.005	4	25	872	5
Ba	135	7.497	ug/L	0.064	0	16	17765	1
[ Ba	137	7.402	ug/L	0.102	1	21	29453	2
> Tb	159		ug/L			395846	334181	0
Tl	205	0.004	ug/L	0.001	31	25	119	25
Pb	208	0.331	ug/L	0.002	0	201	11611	0
BI	209		ug/L			342389	287329	0
Th	232	0.465	ug/L	0.000	0	203	22332	0
[ U	238	0.253	ug/L	0.003	1	20	12794	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU13 K REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, May 09, 2011 14:05:28

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			356289	277360	2
[ Be	9	0.092	ug/L	0.010	10	3	31	12
C	13		mg/L			4456	9328	1
Cl	37		mg/L			2690010	3757177	0
[> Sc	45		ug/L			264393	329464	1
V-1	51	33.382	ug/L	0.312	0	2140	514476	2
V	51	33.148	ug/L	0.282	0	975	520081	2
Cr	52	6.629	ug/L	0.048	0	6591	96625	1
Cr	53	7.608	ug/L	0.088	1	372	12711	0
Mn	55	333.744	ug/L	0.956	0	350	7494142	1
[ Co	59	0.534	ug/L	0.013	2	42	9435	3
[> Ge	72		ug/L			385276	362556	1
Ni	60	1.127	ug/L	0.014	1	45	3220	2
Ni	62	1.506	ug/L	0.083	5	62	711	6
Cu	63	2.234	ug/L	0.009	0	180	14875	1
Cu	65	0.434	ug/L	0.008	1	100	1484	2
Zn	66	1.181	ug/L	0.018	1	348	2804	0
Zn	67	5.389	ug/L	0.146	2	70	1970	3
Zn	68	1.908	ug/L	0.126	6	9052	11348	0
As-1	75	35.534	ug/L	0.076	0	-30	67991	0
As	75	35.207	ug/L	0.118	0	10544	77819	0
Se	82	2.367	ug/L	0.098	4	0	445	3
Se	78	2.159	ug/L	0.274	12	10737	11165	0
[ Mo	98	0.051	ug/L	0.006	11	1921	2143	2
Y	89		ug/L			294548	325689	1
Kr	83		ug/L			77	94	3
[> In	115		ug/L			417878	374189	1
Ag	107	0.035	ug/L	0.001	4	26	446	3
Cd	111	0.019	ug/L	0.065	333	162	202	94
Cd	114	0.005	ug/L	0.001	15	14	52	10
Sb	121	0.066	ug/L	0.004	6	32	729	6
Sb	123	0.067	ug/L	0.004	5	25	563	4
Ba	135	5.382	ug/L	0.091	1	16	13140	1
[ Ba	137	5.410	ug/L	0.019	0	21	22178	1
[> Tb	159		ug/L			395846	337520	0
Tl	205	0.002	ug/L	0.000	9	25	73	7
Pb	208	0.024	ug/L	0.001	2	201	1010	2
Bi	209		ug/L			342389	291391	0
Th	232	0.100	ug/L	0.002	2	203	4986	2
[ U	238	0.071	ug/L	0.003	3	20	3650	3

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU15 O REN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Monday, May 09, 2011 14:12:02

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	279083	0
[ Be	9	0.001	ug/L	0.002	237	3	2	24
C	13		mg/L			4456	4711	2
Cl	37		mg/L			2690010	2940908	0
> Sc	45		ug/L			264393	253923	0
V-1	51	0.271	ug/L	0.013	4	2140	5253	3
V	51	0.325	ug/L	0.006	1	975	4862	1
Cr	52	0.059	ug/L	0.005	8	6591	6941	0
Cr	53	0.243	ug/L	0.044	18	372	659	8
Mn	55	78.957	ug/L	0.492	0	350	1366756	0
[ Co	59	0.033	ug/L	0.003	8	42	494	8
> Ge	72		ug/L			385276	376015	0
Ni	60	0.180	ug/L	0.012	6	45	571	6
Ni	62	0.317	ug/L	0.022	6	62	203	4
Cu	63	0.104	ug/L	0.007	7	180	885	6
Cu	65	0.070	ug/L	0.003	4	100	330	3
Zn	66	0.150	ug/L	0.015	10	348	666	4
Zn	67	0.261	ug/L	0.038	14	70	164	8
Zn	68	0.147	ug/L	0.187	127	9052	9060	2
As-1	75	107.882	ug/L	0.310	0	-30	214146	0
As	75	107.367	ug/L	0.364	0	10544	225035	0
Se	82	0.106	ug/L	0.068	64	0	21	62
Se	78	1.246	ug/L	0.229	18	10737	11114	0
[ Mo	98	-0.206	ug/L	0.006	2	1921	473	8
Y	89		ug/L			294548	268145	0
Kr	83		ug/L			77	82	8
> In	115		ug/L			417878	395981	0
Ag	107	0.003	ug/L	0.001	28	26	64	16
Cd	111	0.018	ug/L	0.003	18	162	210	4
Cd	114	0.001	ug/L	0.001	122	14	18	27
Sb	121	0.013	ug/L	0.000	3	32	182	3
Sb	123	0.013	ug/L	0.000	1	25	137	0
Ba	135	0.356	ug/L	0.005	1	16	934	0
[ Ba	137	0.353	ug/L	0.005	1	21	1549	1
> Tb	159		ug/L			395846	353024	0
Tl	205	0.002	ug/L	0.000	15	25	85	10
Pb	208	0.004	ug/L	0.001	16	201	314	6
Bi	209		ug/L			342389	320039	0
Th	232	0.003	ug/L	0.000	14	203	337	6
[ U	238	0.022	ug/L	0.000	0	20	1175	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU15 O REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Monday, May 09, 2011 14:18:37

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	283380	0
[ Be	9	0.006	ug/L	0.004	73	3	4	31
C	13		mg/L			4456	5740	0
Cl	37		mg/L			2690010	2915559	0
> Sc	45		ug/L			264393	276677	0
V-1	51	0.920	ug/L	0.032	3	2140	14086	2
V	51	0.960	ug/L	0.027	2	975	13643	2
Cr	52	0.148	ug/L	0.007	4	6591	8554	1
Cr	53	0.322	ug/L	0.022	6	372	825	3
Mn	55	298.620	ug/L	3.392	1	350	5631448	1
[ Co	59	0.114	ug/L	0.001	1	42	1729	1
> Ge	72		ug/L			385276	375532	0
Ni	60	0.710	ug/L	0.010	1	45	2116	1
Ni	62	0.606	ug/L	0.062	10	62	332	8
Cu	63	0.271	ug/L	0.005	1	180	2022	2
Cu	65	0.188	ug/L	0.017	8	100	720	7
Zn	66	0.688	ug/L	0.011	1	348	1834	1
Zn	67	0.789	ug/L	0.071	8	70	357	7
Zn	68	0.884	ug/L	0.019	2	9052	10181	0
As-1	75	428.812	ug/L	1.638	0	-30	850191	0
As	75	425.896	ug/L	1.604	0	10544	861014	0
Se	82	0.174	ug/L	0.025	14	0	34	13
Se	78	1.202	ug/L	0.082	6	10737	11078	0
[ Mo	98	-0.042	ug/L	0.005	11	1921	1584	2
Y	89		ug/L			294548	268331	0
Kr	83		ug/L			77	81	4
> In	115		ug/L			417878	396504	0
Ag	107	0.003	ug/L	0.001	25	26	63	15
Cd	111	0.018	ug/L	0.005	26	162	209	7
Cd	114	0.004	ug/L	0.001	13	14	45	9
Sb	121	0.034	ug/L	0.001	4	32	420	4
Sb	123	0.036	ug/L	0.001	2	25	328	2
Ba	135	1.324	ug/L	0.014	1	16	3438	0
[ Ba	137	1.371	ug/L	0.018	1	21	5970	1
> Tb	159		ug/L			395846	351910	0
Tl	205	0.003	ug/L	0.001	24	25	110	19
Pb	208	0.011	ug/L	0.001	9	201	571	6
Bi	209		ug/L			342389	314165	0
Th	232	0.007	ug/L	0.001	15	203	518	10
[ U	238	0.083	ug/L	0.002	2	20	4419	2

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU15 M REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Monday, May 09, 2011 14:25:12

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>] Li	6		ug/L			356289	296755	1
[ ] Be	9	0.003	ug/L	0.004	129	3	3	33
[ ] C	13		mg/L			4456	5825	2
[ ] Cl	37		mg/L			2690010	2882323	0
[>] Sc	45		ug/L			264393	271397	0
[ ] V-1	51	0.393	ug/L	0.008	1	2140	7163	0
[ ] V	51	0.438	ug/L	0.005	1	975	6642	0
[ ] Cr	52	0.155	ug/L	0.007	4	6591	8466	0
[ ] Cr	53	0.307	ug/L	0.015	4	372	790	2
[ ] Mn	55	153.159	ug/L	1.270	0	350	2833209	0
[ ] Co	59	0.086	ug/L	0.005	5	42	1291	5
[>] Ge	72		ug/L			385276	376561	1
[ ] Ni	60	0.406	ug/L	0.011	2	45	1232	2
[ ] Ni	62	0.247	ug/L	0.018	7	62	172	3
[ ] Cu	63	0.215	ug/L	0.007	3	180	1645	2
[ ] Cu	65	0.137	ug/L	0.003	2	100	552	1
[ ] Zn	66	1.945	ug/L	0.045	2	348	4574	1
[ ] Zn	67	1.706	ug/L	0.045	2	70	694	1
[ ] Zn	68	1.995	ug/L	0.043	2	9052	11921	0
[ ] As-1	75	1499.229	ug/L	13.492	0	-30	2980513	0
[ ] As	75	1488.367	ug/L	13.454	0	10544	2991322	0
[ ] Se	82	0.046	ug/L	0.007	15	0	9	13
[ ] Se	78	1.001	ug/L	0.263	26	10737	11005	0
[ ] Mo	98	4.073	ug/L	0.027	0	1921	29572	0
[ ] Y	89		ug/L			294548	270270	0
[ ] Kr	83		ug/L			77	82	3
[>] In	115		ug/L			417878	393991	1
[ ] Ag	107	0.002	ug/L	0.000	13	26	55	6
[ ] Cd	111	0.018	ug/L	0.004	20	162	209	6
[ ] Cd	114	0.013	ug/L	0.003	23	14	108	21
[ ] Sb	121	0.019	ug/L	0.001	7	32	242	4
[ ] Sb	123	0.019	ug/L	0.001	3	25	183	3
[ ] Ba	135	1.188	ug/L	0.049	4	16	3064	2
[ ] Ba	137	1.146	ug/L	0.027	2	21	4961	1
[>] Tb	159		ug/L			395846	356818	1
[ ] Tl	205	0.002	ug/L	0.000	11	25	81	8
[ ] Pb	208	0.006	ug/L	0.000	4	201	392	3
[ ] Bi	209		ug/L			342389	319394	0
[ ] Th	232	0.005	ug/L	0.001	13	203	418	6
[ ] U	238	0.004	ug/L	0.001	14	20	212	14

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU15 N REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Monday, May 09, 2011 14:31:47

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\050911.cal

REN

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	310116	2
[ Be	9	0.007	ug/L	0.002	31	3	5	13
C	13		mg/L			4456	5717	0
Cl	37		mg/L			2690010	2893812	0
> Sc	45		ug/L			264393	273038	2
V-1	51	0.361	ug/L	0.007	1	2140	6804	3
V	51	0.404	ug/L	0.005	1	975	6246	1
Cr	52	0.138	ug/L	0.018	12	6591	8337	3
Cr	53	0.285	ug/L	0.035	12	372	763	3
Mn	55	151.124	ug/L	1.196	0	350	2812227	2
[ Co	59	0.084	ug/L	0.004	4	42	1273	6
> Ge	72		ug/L			385276	373524	1
Ni	60	0.434	ug/L	0.006	1	45	1305	2
Ni	62	0.270	ug/L	0.044	16	62	180	10
Cu	63	0.217	ug/L	0.013	5	180	1642	5
Cu	65	0.136	ug/L	0.013	9	100	545	6
Zn	66	1.881	ug/L	0.025	1	348	4400	2
Zn	67	1.762	ug/L	0.026	1	70	709	2
Zn	68	2.061	ug/L	0.148	7	9052	11924	0
As-1	75	1373.578	ug/L	3.897	0	-30	2708789	1
As	75	1363.562	ug/L	3.995	0	10544	2719339	1
Se	82	0.045	ug/L	0.003	6	0	9	5
Se	78	0.652	ug/L	0.539	82	10737	10737	0
[ Mo	98	3.830	ug/L	0.064	1	1921	27701	2
Y	89		ug/L			294548	268379	2
Kr	83		ug/L			77	78	2
> In	115		ug/L			417878	393836	1
Ag	107	0.002	ug/L	0.002	94	26	45	43
Cd	111	0.017	ug/L	0.011	62	162	205	16
Cd	114	0.012	ug/L	0.003	22	14	105	19
Sb	121	0.020	ug/L	0.002	7	32	259	7
Sb	123	0.020	ug/L	0.002	10	25	190	10
Ba	135	1.159	ug/L	0.019	1	16	2990	2
[ Ba	137	1.182	ug/L	0.029	2	21	5115	3
> Tb	159		ug/L			395846	357664	2
Tl	205	0.002	ug/L	0.000	26	25	69	16
Pb	208	0.008	ug/L	0.000	6	201	460	5
Bi	209		ug/L			342389	315879	1
Th	232	0.004	ug/L	0.001	17	203	380	11
[ U	238	0.003	ug/L	0.000	3	20	167	3

## ICP-MS Quantitative Analysis - Summary Report

**Sample ID: SU15 E REN**

**Sample Dil Factor: 50**

**Comments:**

**Sample Date/Time: Monday, May 09, 2011 14:38:23**

**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\050911.cal**

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	325730	0
[ Be	9	0.003	ug/L	0.007	232	3	4	62
C	13		mg/L			4456	4649	0
Cl	37		mg/L			2690010	2956638	0
> Sc	45		ug/L			264393	261225	0
V-1	51	0.044	ug/L	0.001	1	2140	2652	0
V	51	0.074	ug/L	0.002	3	975	1888	1
Cr	52	0.016	ug/L	0.005	30	6591	6677	0
Cr	53	0.111	ug/L	0.008	7	372	510	1
Mn	55	16.083	ug/L	0.097	0	350	286669	0
[ Co	59	0.012	ug/L	0.002	14	42	203	11
> Ge	72		ug/L			385276	383857	0
Ni	60	0.050	ug/L	0.007	14	45	194	11
Ni	62	0.072	ug/L	0.011	15	62	95	5
Cu	63	0.054	ug/L	0.003	6	180	555	3
Cu	65	0.043	ug/L	0.004	9	100	245	5
Zn	66	1.295	ug/L	0.027	2	348	3222	2
Zn	67	1.158	ug/L	0.040	3	70	503	2
Zn	68	1.109	ug/L	0.089	7	9052	10761	1
As-1	75	132.470	ug/L	0.514	0	-30	268446	0
As	75	131.481	ug/L	0.513	0	10544	278966	0
Se	82	0.003	ug/L	0.032	943	0	1	475
Se	78	-0.052	ug/L	0.013	24	10737	10670	0
[ Mo	98	0.149	ug/L	0.003	1	1921	2949	0
Y	89		ug/L			294548	280055	0
Kr	83		ug/L			77	72	9
> In	115		ug/L			417878	411451	0
Ag	107	0.001	ug/L	0.001	48	26	44	19
Cd	111	0.017	ug/L	0.002	10	162	214	2
Cd	114	0.005	ug/L	0.000	8	14	50	6
Sb	121	0.005	ug/L	0.001	27	32	89	16
Sb	123	0.005	ug/L	0.002	34	25	71	22
Ba	135	0.124	ug/L	0.018	14	16	350	13
[ Ba	137	0.126	ug/L	0.003	2	21	590	1
> Tb	159		ug/L			395846	375955	0
Tl	205	0.001	ug/L	0.000	21	25	66	13
Pb	208	0.006	ug/L	0.001	10	201	415	4
Bi	209		ug/L			342389	338247	1
Th	232	-0.001	ug/L	0.000	18	203	155	5
[ U	238	0.000	ug/L	0.000	17	20	38	8

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU15 F REN

Sample Dil Factor: 50

Comments:

Sample Date/Time: Monday, May 09, 2011 14:45:00

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			356289	333036	0
[ Be	9	-0.003	ug/L	0.004	140	3	2	69
C	13		mg/L			4456	4720	1
Cl	37		mg/L			2690010	2961539	0
[> Sc	45		ug/L			264393	261872	0
V-1	51	0.051	ug/L	0.008	16	2140	2739	3
V	51	0.070	ug/L	0.001	1	975	1839	0
Cr	52	0.028	ug/L	0.009	32	6591	6828	1
Cr	53	0.090	ug/L	0.014	16	372	483	3
Mn	55	15.993	ug/L	0.114	0	350	285787	0
[ Co	59	0.011	ug/L	0.002	14	42	197	10
[> Ge	72		ug/L			385276	386124	0
Ni	60	0.047	ug/L	0.002	4	45	186	3
Ni	62	0.078	ug/L	0.027	33	62	98	12
Cu	63	0.048	ug/L	0.001	1	180	516	1
Cu	65	0.038	ug/L	0.010	27	100	229	15
Zn	66	1.275	ug/L	0.031	2	348	3194	2
Zn	67	1.249	ug/L	0.022	1	70	540	1
Zn	68	1.014	ug/L	0.025	2	9052	10674	0
As-1	75	132.733	ug/L	0.061	0	-30	270568	0
As	75	131.675	ug/L	0.044	0	10544	281012	0
Se	82	-0.005	ug/L	0.047	890	0	0	2599
Se	78	-0.299	ug/L	0.089	29	10737	10603	0
[ Mo	98	0.151	ug/L	0.015	9	1921	2981	3
Y	89		ug/L			294548	280821	0
Kr	83		ug/L			77	77	5
[> In	115		ug/L			417878	413955	0
Ag	107	0.001	ug/L	0.000	58	26	36	15
Cd	111	0.019	ug/L	0.002	9	162	223	2
Cd	114	0.004	ug/L	0.001	40	14	43	25
Sb	121	0.003	ug/L	0.002	46	32	72	25
Sb	123	0.004	ug/L	0.001	37	25	60	22
Ba	135	0.119	ug/L	0.005	4	16	337	4
[ Ba	137	0.122	ug/L	0.013	10	21	576	10
[> Tb	159		ug/L			395846	378625	0
Tl	205	0.001	ug/L	0.000	31	25	62	18
Pb	208	0.003	ug/L	0.001	31	201	314	13
Bi	209		ug/L			342389	338814	0
Th	232	-0.001	ug/L	0.000	22	203	135	9
[ U	238	0.000	ug/L	0.000	21	20	48	12



## ICP-MS Quantitative Analysis - Summary Report

**Sample ID: CCV3**

**Sample Dil Factor:**

**Comments:**

**Sample Date/Time: Monday, May 09, 2011 14:51:35**

**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\050911.cal**

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	323220	1
[ Be	9	51.922	ug/L	1.008	1	3	19172	0
C	13		mg/L			4456	3665	1
Cl	37		mg/L			2690010	2972854	0
> Sc	45		ug/L			264393	257713	0
V-1	51	50.400	ug/L	0.214	0	2140	606468	0
V	51	50.321	ug/L	0.166	0	975	617052	0
Cr	52	50.535	ug/L	0.078	0	6591	533625	0
Cr	53	50.283	ug/L	0.244	0	372	63684	0
Mn	55	50.296	ug/L	0.444	0	350	883741	1
[ Co	59	50.273	ug/L	0.580	1	42	690687	0
> Ge	72		ug/L			385276	378597	0
Ni	60	50.246	ug/L	0.450	0	45	147971	0
Ni	62	49.329	ug/L	0.382	0	62	22373	0
Cu	63	50.035	ug/L	0.524	1	180	344116	0
Cu	65	50.011	ug/L	0.235	0	100	167210	0
Zn	66	49.873	ug/L	0.574	1	348	109485	0
Zn	67	51.126	ug/L	0.600	1	70	18931	0
Zn	68	50.456	ug/L	0.216	0	9052	87074	0
As-1	75	50.258	ug/L	0.457	0	-30	100430	0
As	75	50.305	ug/L	0.593	1	10544	111663	0
Se	82	49.251	ug/L	0.216	0	0	9674	0
Se	78	49.455	ug/L	0.437	0	10737	35969	0
[ Mo	98	48.842	ug/L	0.518	1	1921	335820	0
Y	89		ug/L			294548	275363	0
Kr	83		ug/L			77	81	4
> In	115		ug/L			417878	403333	1
Ag	107	50.084	ug/L	0.549	1	26	643310	1
Cd	111	50.161	ug/L	0.519	1	162	161201	0
Cd	114	50.040	ug/L	0.367	0	14	382764	1
Sb	121	50.329	ug/L	0.612	1	32	579801	0
Sb	123	50.298	ug/L	0.752	1	25	436821	1
Ba	135	49.329	ug/L	0.652	1	16	129690	0
[ Ba	137	49.718	ug/L	0.403	0	21	219521	0
> Tb	159		ug/L			395846	369447	0
Tl	205	49.366	ug/L	0.044	0	25	1388095	0
Pb	208	50.478	ug/L	0.173	0	201	1929763	0
Bi	209		ug/L			342389	330385	0
Th	232	52.376	ug/L	0.477	0	203	2760951	1
[ U	238	52.431	ug/L	0.453	0	20	2922329	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB3

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, May 09, 2011 14:58:48

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	338275	1
[ Be	9	-0.005	ug/L	0.003	64	3	1	100
C	13		mg/L			4456	4235	2
Cl	37		mg/L			2690010	2996968	0
> Sc	45		ug/L			264393	267093	0
V-1	51	0.006	ug/L	0.007	121	2140	2232	4
V	51	0.020	ug/L	0.004	17	975	1244	4
Cr	52	0.000	ug/L	0.009	5888	6591	6661	1
Cr	53	0.046	ug/L	0.001	2	372	436	0
Mn	55	0.012	ug/L	0.001	4	350	579	1
Co	59	0.005	ug/L	0.001	23	42	117	14
> Ge	72		ug/L			385276	391318	0
Ni	60	0.003	ug/L	0.003	94	45	55	16
Ni	62	0.003	ug/L	0.028	848	62	65	19
Cu	63	0.002	ug/L	0.001	62	180	199	5
Cu	65	-0.001	ug/L	0.001	179	100	99	5
Zn	66	-0.077	ug/L	0.001	1	348	180	2
Zn	67	-0.039	ug/L	0.024	61	70	56	15
Zn	68	-0.396	ug/L	0.104	26	9052	8559	1
As-1	75	0.022	ug/L	0.010	43	-30	14	136
As	75	-0.080	ug/L	0.028	34	10544	10542	0
Se	82	0.004	ug/L	0.055	1324	0	1	729
Se	78	-0.411	ug/L	0.121	29	10737	10686	0
Mo	98	-0.251	ug/L	0.004	1	1921	178	16
Y	89		ug/L			294548	287196	1
Kr	83		ug/L			77	75	9
> In	115		ug/L			417878	421865	1
Ag	107	0.010	ug/L	0.002	15	26	164	11
Cd	111	0.019	ug/L	0.010	53	162	226	13
Cd	114	0.004	ug/L	0.001	14	14	45	8
Sb	121	0.024	ug/L	0.005	22	32	319	20
Sb	123	0.023	ug/L	0.003	12	25	231	11
Ba	135	0.000	ug/L	0.001	488	16	17	18
Ba	137	0.003	ug/L	0.003	98	21	35	38
> Tb	159		ug/L			395846	380288	0
Tl	205	0.004	ug/L	0.001	20	25	152	17
Pb	208	0.005	ug/L	0.001	22	201	373	10
Bi	209		ug/L			342389	342654	0
Th	232	0.046	ug/L	0.004	9	203	2671	9
U	238	0.005	ug/L	0.001	20	20	306	19

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU59 MB1 SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Monday, May 09, 2011 15:07:09

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	346202	1
[ Be	9	0.004	ug/L	0.008	187	3	5	66
C	13		mg/L			4456	5956	2
Cl	37		mg/L			2690010	3015382	0
> Sc	45		ug/L			264393	266011	0
V-1	51	0.019	ug/L	0.003	17	2140	2391	1
V	51	0.014	ug/L	0.004	30	975	1153	4
Cr	52	0.051	ug/L	0.002	4	6591	7182	0
Cr	53	0.032	ug/L	0.021	67	372	415	6
Mn	55	0.025	ug/L	0.001	5	350	799	3
[ Co	59	0.004	ug/L	0.001	22	42	99	13
> Ge	72		ug/L			385276	388263	0
Ni	60	0.011	ug/L	0.002	18	45	79	8
Ni	62	0.049	ug/L	0.013	26	62	85	6
Cu	63	0.028	ug/L	0.001	4	180	375	1
Cu	65	0.025	ug/L	0.007	26	100	187	12
Zn	66	0.306	ug/L	0.025	8	348	1038	5
Zn	67	0.372	ug/L	0.072	19	70	211	12
Zn	68	0.025	ug/L	0.090	355	9052	9162	1
As-1	75	0.021	ug/L	0.013	63	-30	11	231
As	75	-0.035	ug/L	0.029	82	10544	10553	0
Se	82	0.015	ug/L	0.039	249	0	3	203
Se	78	-0.209	ug/L	0.062	29	10737	10709	0
[ Mo	98	-0.265	ug/L	0.001	0	1921	81	8
Y	89		ug/L			294548	289544	0
Kr	83		ug/L			77	76	14
> In	115		ug/L			417878	416513	0
[ Ag	107	0.003	ug/L	0.001	23	26	65	13
Cd	111	0.024	ug/L	0.007	28	162	241	8
Cd	114	0.001	ug/L	0.000	40	14	23	15
Sb	121	0.006	ug/L	0.001	21	32	107	15
Sb	123	0.007	ug/L	0.001	20	25	90	13
Ba	135	0.327	ug/L	0.014	4	16	904	4
[ Ba	137	0.332	ug/L	0.007	2	21	1533	1
> Tb	159		ug/L			395846	381892	0
Tl	205	0.002	ug/L	0.000	18	25	80	12
Pb	208	0.009	ug/L	0.001	13	201	537	8
Bi	209		ug/L			342389	345486	0
Th	232	0.009	ug/L	0.001	9	203	678	7
[ U	238	0.001	ug/L	0.000	25	20	62	17

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU59 MB1SPK SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Monday, May 09, 2011 15:13:46

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	353631	0
[ Be	9	25.337	ug/L	0.157	0	3	10239	1
C	13		mg/L			4456	5408	0
Cl	37		mg/L			2690010	2968201	0
> Sc	45		ug/L			264393	268556	0
V-1	51	25.028	ug/L	0.034	0	2140	314935	0
V	51	24.929	ug/L	0.134	0	975	319038	0
Cr	52	25.408	ug/L	0.123	0	6591	282917	0
Cr	53	25.074	ug/L	0.246	0	372	33281	0
Mn	55	25.640	ug/L	0.076	0	350	469655	0
Co	59	25.486	ug/L	0.409	1	42	364913	1
> Ge	72		ug/L			385276	385540	1
Ni	60	26.127	ug/L	0.244	0	45	78370	1
Ni	62	26.283	ug/L	0.352	1	62	12166	0
Cu	63	26.947	ug/L	0.370	1	180	188787	0
Cu	65	26.879	ug/L	0.441	1	100	91549	0
Zn	66	82.027	ug/L	1.391	1	348	183123	0
Zn	67	76.653	ug/L	0.772	1	70	28867	0
Zn	68	81.282	ug/L	1.316	1	9052	137291	0
As-1	75	24.988	ug/L	0.296	1	-30	50830	1
As	75	25.208	ug/L	0.112	0	10544	62244	1
Se	82	80.481	ug/L	1.835	2	0	16094	1
Se	78	79.699	ug/L	1.246	1	10737	52453	0
Mo	98	-0.265	ug/L	0.001	0	1921	76	5
Y	89		ug/L			294548	290156	1
Kr	83		ug/L			77	80	4
> In	115		ug/L			417878	424756	1
Ag	107	25.685	ug/L	0.176	0	26	347435	0
Cd	111	25.084	ug/L	0.515	2	162	84972	1
Cd	114	25.128	ug/L	0.201	0	14	202416	0
Sb	121	0.007	ug/L	0.000	2	32	121	3
Sb	123	0.006	ug/L	0.001	22	25	82	14
Ba	135	24.714	ug/L	0.138	0	16	68437	0
[ Ba	137	25.056	ug/L	0.202	0	21	116521	0
> Tb	159		ug/L			395846	390394	1
Tl	205	25.062	ug/L	0.186	0	25	744661	1
Pb	208	25.743	ug/L	0.216	0	201	1039974	0
Bi	209		ug/L			342389	350159	0
Th	232	24.576	ug/L	0.015	0	203	1369039	1
[ U	238	24.644	ug/L	0.324	1	20	1451416	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU13 D REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Monday, May 09, 2011 15:20:20

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\Caldata\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			356289	353192	1
[ Be	9	0.005	ug/L	0.005	87	3	5	35
C	13		mg/L			4456	5602	1
Cl	37		mg/L			2690010	2893633	0
[> Sc	45		ug/L			264393	271911	0
V-1	51	5.293	ug/L	0.059	1	2140	69172	1
V	51	5.228	ug/L	0.050	0	975	68538	1
Cr	52	1.292	ug/L	0.015	1	6591	21005	0
Cr	53	1.346	ug/L	0.027	2	372	2170	1
Mn	55	44.414	ug/L	0.291	0	350	823449	1
[ Co	59	0.648	ug/L	0.006	0	42	9432	0
[> Ge	72		ug/L			385276	377191	0
Ni	60	1.582	ug/L	0.050	3	45	4682	2
Ni	62	1.238	ug/L	0.073	5	62	618	5
Cu	63	21.609	ug/L	0.245	1	180	148166	0
Cu	65	21.436	ug/L	0.127	0	100	71459	0
Zn	66	26.778	ug/L	0.151	0	348	58725	0
Zn	67	24.816	ug/L	0.401	1	70	9190	1
Zn	68	26.257	ug/L	0.342	1	9052	49396	0
As-1	75	115.977	ug/L	0.912	0	-30	230937	0
As	75	114.990	ug/L	0.925	0	10544	241034	0
Se	82	0.133	ug/L	0.066	49	0	26	48
Se	78	-0.406	ug/L	0.129	31	10737	10304	0
[ Mo	98	4.242	ug/L	0.077	1	1921	30778	1
Y	89		ug/L			294548	294419	0
Kr	83		ug/L			77	68	5
[> In	115		ug/L			417878	410992	1
Ag	107	0.118	ug/L	0.005	4	26	1565	3
Cd	111	0.058	ug/L	0.006	11	162	348	5
Cd	114	0.031	ug/L	0.002	7	14	257	6
Sb	121	0.651	ug/L	0.005	0	32	7676	1
Sb	123	0.670	ug/L	0.017	2	25	5952	1
Ba	135	5.904	ug/L	0.041	0	16	15832	1
[ Ba	137	5.992	ug/L	0.157	2	21	26974	1
[> Tb	159		ug/L			395846	385448	1
Tl	205	0.010	ug/L	0.002	15	25	314	14
Pb	208	0.130	ug/L	0.004	3	201	5387	2
Bi	209		ug/L			342389	339981	0
Th	232	0.051	ug/L	0.002	4	203	3008	5
[ U	238	0.135	ug/L	0.003	2	20	7878	3

# ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU13 J REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Monday, May 09, 2011 15:26:46

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	345732	0
[ Be	9	0.007	ug/L	0.005	73	3	5	32
C	13		mg/L			4456	5424	0
Cl	37		mg/L			2690010	2893633	0
> Sc	45		ug/L			264393	268637	0
V-1	51	4.726	ug/L	0.071	1	2140	61242	1
V	51	4.671	ug/L	0.056	1	975	60603	1
Cr	52	1.212	ug/L	0.016	1	6591	19876	0
Cr	53	1.267	ug/L	0.035	2	372	2041	2
Mn	55	44.691	ug/L	0.416	0	350	818560	0
Co	59	0.647	ug/L	0.016	2	42	9302	1
> Ge	72		ug/L			385276	374185	0
Ni	60	1.628	ug/L	0.042	2	45	4782	2
Ni	62	1.314	ug/L	0.094	7	62	648	6
Cu	63	6.574	ug/L	0.049	0	180	44836	0
Cu	65	6.523	ug/L	0.041	0	100	21638	0
Zn	66	26.224	ug/L	0.135	0	348	57058	0
Zn	67	23.507	ug/L	0.225	0	70	8640	1
Zn	68	25.756	ug/L	0.163	0	9052	48234	0
As-1	75	115.933	ug/L	0.224	0	-30	229010	0
As	75	114.877	ug/L	0.244	0	10544	238888	0
Se	82	0.076	ug/L	0.033	43	0	15	41
Se	78	-0.716	ug/L	0.117	16	10737	10064	0
Mo	98	4.148	ug/L	0.051	1	1921	29893	1
Y	89		ug/L			294548	288511	0
Kr	83		ug/L			77	71	6
> In	115		ug/L			417878	404556	0
Ag	107	0.019	ug/L	0.001	7	26	269	6
Cd	111	0.050	ug/L	0.010	20	162	319	9
Cd	114	0.026	ug/L	0.002	9	14	214	8
Sb	121	0.622	ug/L	0.008	1	32	7215	1
Sb	123	0.629	ug/L	0.017	2	25	5501	2
Ba	135	5.859	ug/L	0.073	1	16	15464	0
Ba	137	5.881	ug/L	0.027	0	21	26064	0
> Tb	159		ug/L			395846	376478	1
Tl	205	0.006	ug/L	0.000	3	25	184	3
Pb	208	0.050	ug/L	0.002	3	201	2140	2
Bi	209		ug/L			342389	335742	0
Th	232	0.025	ug/L	0.001	2	203	1539	1
U	238	0.133	ug/L	0.003	1	20	7598	1

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU13 L REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Monday, May 09, 2011 15:33:17

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	348176	0
[ Be	9	0.002	ug/L	0.010	414	3	4	91
C	13		mg/L			4456	5079	2
Cl	37		mg/L			2690010	2832186	0
> Sc	45		ug/L			264393	269336	0
V-1	51	0.237	ug/L	0.007	2	2140	5150	1
V	51	0.261	ug/L	0.006	2	975	4327	0
Cr	52	0.018	ug/L	0.013	68	6591	6915	1
Cr	53	0.106	ug/L	0.020	18	372	518	4
Mn	55	17.830	ug/L	0.019	0	350	327651	0
[ Co	59	0.127	ug/L	0.005	4	42	1861	4
> Ge	72		ug/L			385276	367556	0
Ni	60	0.498	ug/L	0.012	2	45	1465	2
Ni	62	0.287	ug/L	0.048	16	62	185	11
Cu	63	0.136	ug/L	0.002	1	180	1077	1
Cu	65	0.071	ug/L	0.005	7	100	325	4
Zn	66	0.447	ug/L	0.014	3	348	1283	2
Zn	67	0.514	ug/L	0.073	14	70	251	9
Zn	68	0.276	ug/L	0.036	13	9052	9051	1
As-1	75	194.005	ug/L	0.826	0	-30	376456	0
As	75	192.357	ug/L	0.837	0	10544	386130	0
Se	82	0.060	ug/L	0.002	3	0	12	3
Se	78	-0.796	ug/L	0.080	10	10737	9846	0
[ Mo	98	2.255	ug/L	0.039	1	1921	16797	1
Y	89		ug/L			294548	274672	1
Kr	83		ug/L			77	68	0
> In	115		ug/L			417878	397381	1
Ag	107	0.003	ug/L	0.000	5	26	66	4
Cd	111	0.020	ug/L	0.008	41	162	218	13
Cd	114	0.009	ug/L	0.002	22	14	81	19
Sb	121	0.044	ug/L	0.001	2	32	532	3
Sb	123	0.047	ug/L	0.004	8	25	427	8
Ba	135	1.530	ug/L	0.022	1	16	3977	0
[ Ba	137	1.513	ug/L	0.019	1	21	6601	0
> Tb	159		ug/L			395846	376965	1
Tl	205	0.001	ug/L	0.000	6	25	58	4
Pb	208	0.036	ug/L	0.001	2	201	1604	3
Bi	209		ug/L			342389	331988	0
Th	232	0.008	ug/L	0.001	11	203	605	6
[ U	238	0.035	ug/L	0.002	4	20	2001	3

## ICP-MS Quantitative Analysis - Summary Report

**Sample ID: SU13 F REN**

**Sample Dil Factor: 20**

**Comments:**

**Sample Date/Time: Monday, May 09, 2011 15:39:48**

**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\050911.cal**

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	354325	1
[ Be	9	-0.001	ug/L	0.002	192	3	2	24
C	13		mg/L			4456	4848	1
Cl	37		mg/L			2690010	2772133	0
> Sc	45		ug/L			264393	257934	0
V-1	51	0.143	ug/L	0.014	9	2140	3807	4
V	51	0.147	ug/L	0.009	5	975	2759	3
Cr	52	0.026	ug/L	0.016	60	6591	6705	2
Cr	53	0.047	ug/L	0.034	72	372	422	10
Mn	55	9.552	ug/L	0.037	0	350	168254	0
[ Co	59	0.070	ug/L	0.001	1	42	1005	2
> Ge	72		ug/L			385276	358817	1
Ni	60	0.265	ug/L	0.009	3	45	780	3
Ni	62	0.193	ug/L	0.032	16	62	140	8
Cu	63	0.119	ug/L	0.005	4	180	941	3
Cu	65	0.084	ug/L	0.003	3	100	360	3
Zn	66	1.177	ug/L	0.038	3	348	2767	4
Zn	67	1.130	ug/L	0.137	12	70	460	9
Zn	68	1.011	ug/L	0.047	4	9052	9914	0
As-1	75	104.647	ug/L	0.473	0	-30	198215	1
As	75	103.699	ug/L	0.563	0	10544	207732	0
Se	82	0.068	ug/L	0.019	27	0	13	27
Se	78	-0.642	ug/L	0.376	58	10737	9685	0
[ Mo	98	1.098	ug/L	0.028	2	1921	8907	3
Y	89		ug/L			294548	271592	1
Kr	83		ug/L			77	66	2
> In	115		ug/L			417878	398992	0
[ Ag	107	0.002	ug/L	0.001	42	26	48	19
Cd	111	0.023	ug/L	0.005	19	162	228	5
Cd	114	0.012	ug/L	0.001	9	14	102	7
Sb	121	0.030	ug/L	0.003	11	32	373	9
Sb	123	0.030	ug/L	0.003	8	25	279	8
Ba	135	0.766	ug/L	0.033	4	16	2008	4
[ Ba	137	0.788	ug/L	0.022	2	21	3463	2
> Tb	159		ug/L			395846	377986	0
Tl	205	0.001	ug/L	0.000	11	25	52	6
Pb	208	0.016	ug/L	0.000	3	201	808	2
Bi	209		ug/L			342389	331966	0
Th	232	0.003	ug/L	0.001	27	203	352	12
[ U	238	0.020	ug/L	0.001	5	20	1134	6



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU15 G REN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Monday, May 09, 2011 15:46:20

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\Caldata\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	364687	1
[ Be	9	-0.000	ug/L	0.006	2906	3	3	78
C	13		mg/L			4456	4719	1
Cl	37		mg/L			2690010	2771086	0
> Sc	45		ug/L			264393	257881	0
V-1	51	0.259	ug/L	0.011	4	2140	5199	2
V	51	0.268	ug/L	0.012	4	975	4232	3
Cr	52	0.028	ug/L	0.003	8	6591	6726	0
Cr	53	0.069	ug/L	0.015	21	372	450	4
Mn	55	77.131	ug/L	0.149	0	350	1355952	0
[ Co	59	0.032	ug/L	0.002	5	42	476	5
> Ge	72		ug/L			385276	364885	0
Ni	60	0.155	ug/L	0.006	3	45	483	4
Ni	62	0.094	ug/L	0.019	20	62	100	7
Cu	63	0.145	ug/L	0.000	0	180	1128	0
Cu	65	0.113	ug/L	0.006	5	100	459	4
Zn	66	0.447	ug/L	0.008	1	348	1273	2
Zn	67	0.457	ug/L	0.052	11	70	229	7
Zn	68	0.086	ug/L	0.047	54	9052	8702	1
As-1	75	107.984	ug/L	0.559	0	-30	208000	0
As	75	106.967	ug/L	0.567	0	10544	217593	0
Se	82	0.087	ug/L	0.034	39	0	17	37
Se	78	-0.803	ug/L	0.056	7	10737	9770	0
[ Mo	98	-0.199	ug/L	0.001	0	1921	505	1
Y	89		ug/L			294548	276158	0
Kr	83		ug/L			77	66	2
> In	115		ug/L			417878	401292	1
Ag	107	0.001	ug/L	0.000	33	26	43	15
Cd	111	0.022	ug/L	0.013	58	162	224	17
Cd	114	0.006	ug/L	0.001	15	14	63	11
Sb	121	0.010	ug/L	0.001	11	32	141	8
Sb	123	0.011	ug/L	0.001	5	25	122	5
Ba	135	0.343	ug/L	0.014	3	16	912	4
[ Ba	137	0.373	ug/L	0.006	1	21	1659	2
> Tb	159		ug/L			395846	383072	1
Tl	205	0.001	ug/L	0.000	16	25	48	9
Pb	208	0.007	ug/L	0.000	4	201	464	3
Bi	209		ug/L			342389	339375	0
Th	232	0.003	ug/L	0.001	25	203	357	12
[ U	238	0.022	ug/L	0.001	4	20	1295	4

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU59 ADUP SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Monday, May 09, 2011 15:52:52

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	366396	0
[ Be	9	0.125	ug/L	0.039	30	3	55	29
C	13		mg/L			4456	7398	1
Cl	37		mg/L			2690010	2806079	0
> Sc	45		ug/L			264393	287148	0
V-1	51	22.790	ug/L	0.123	0	2140	306832	0
V	51	22.538	ug/L	0.125	0	975	308513	0
Cr	52	9.985	ug/L	0.056	0	6591	123220	0
Cr	53	10.018	ug/L	0.040	0	372	14461	0
Mn	55	213.045	ug/L	1.103	0	350	4169700	0
Co	59	4.152	ug/L	0.012	0	42	63610	0
> Ge	72		ug/L			385276	375419	0
Ni	60	8.756	ug/L	0.088	1	45	25605	0
Ni	62	13.007	ug/L	0.049	0	62	5894	0
Cu	63	15.278	ug/L	0.086	0	180	104318	0
Cu	65	15.568	ug/L	0.167	1	100	51679	0
Zn	66	45.927	ug/L	0.558	1	348	100004	1
Zn	67	44.226	ug/L	0.381	0	70	16248	0
Zn	68	45.043	ug/L	0.197	0	9052	78028	0
As-1	75	2.968	ug/L	0.007	0	-30	5853	0
As	75	2.703	ug/L	0.028	1	10544	15672	0
Se	82	0.058	ug/L	0.017	28	0	12	26
Se	78	-0.810	ug/L	0.083	10	10737	10049	0
Mo	98	-0.159	ug/L	0.001	0	1921	796	0
Y	89		ug/L			294548	389197	1
Kr	83		ug/L			77	92	4
> In	115		ug/L			417878	410542	0
Ag	107	0.115	ug/L	0.004	3	26	1526	3
Cd	111	0.285	ug/L	0.026	9	162	1090	7
Cd	114	0.130	ug/L	0.005	4	14	1027	4
Sb	121	0.010	ug/L	0.000	2	32	144	2
Sb	123	0.008	ug/L	0.000	5	25	99	4
Ba	135	54.135	ug/L	0.354	0	16	144880	0
Ba	137	54.468	ug/L	0.182	0	21	244800	0
> Tb	159		ug/L			395846	391895	0
Tl	205	0.041	ug/L	0.001	2	25	1247	2
Pb	208	7.912	ug/L	0.041	0	201	321016	0
Bi	209		ug/L			342389	346064	0
Th	232	1.200	ug/L	0.015	1	203	67287	0
U	238	0.264	ug/L	0.005	1	20	15641	1

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU59 A SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Monday, May 09, 2011 15:59:25

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	366926	0
[ Be	9	0.163	ug/L	0.018	11	3	71	11
C	13		mg/L			4456	7224	0
Cl	37		mg/L			2690010	2788964	0
> Sc	45		ug/L			264393	289211	0
V-1	51	22.861	ug/L	0.171	0	2140	309988	0
V	51	22.563	ug/L	0.165	0	975	310935	0
Cr	52	9.852	ug/L	0.027	0	6591	122546	0
Cr	53	9.725	ug/L	0.192	1	372	14150	1
Mn	55	208.696	ug/L	1.651	0	350	4113798	0
Co	59	4.075	ug/L	0.041	1	42	62869	1
> Ge	72		ug/L			385276	376658	0
Ni	60	8.651	ug/L	0.120	1	45	25384	1
Ni	62	12.410	ug/L	0.147	1	62	5645	0
Cu	63	14.832	ug/L	0.077	0	180	101608	0
Cu	65	14.994	ug/L	0.216	1	100	49943	1
Zn	66	49.124	ug/L	0.526	1	348	107298	1
Zn	67	47.957	ug/L	0.318	0	70	17671	0
Zn	68	48.696	ug/L	0.491	1	9052	83915	0
As-1	75	3.175	ug/L	0.039	1	-30	6282	0
As	75	2.903	ug/L	0.064	2	10544	16124	0
Se	82	0.062	ug/L	0.094	150	0	12	142
Se	78	-0.844	ug/L	0.136	16	10737	10065	0
Mo	98	-0.172	ug/L	0.003	1	1921	708	3
Y	89		ug/L			294548	390029	0
Kr	83		ug/L			77	88	12
> In	115		ug/L			417878	408128	1
Ag	107	0.088	ug/L	0.004	4	26	1174	6
Cd	111	0.261	ug/L	0.004	1	162	1005	2
Cd	114	0.095	ug/L	0.002	2	14	749	2
Sb	121	0.011	ug/L	0.000	3	32	160	3
Sb	123	0.011	ug/L	0.001	6	25	121	5
Ba	135	51.571	ug/L	0.778	1	16	137192	0
Ba	137	51.524	ug/L	0.478	0	21	230192	0
> Tb	159		ug/L			395846	394354	0
Tl	205	0.036	ug/L	0.001	2	25	1106	2
Pb	208	8.237	ug/L	0.024	0	201	336288	0
Bi	209		ug/L			342389	346818	0
Th	232	0.908	ug/L	0.008	0	203	51290	0
U	238	0.217	ug/L	0.006	2	20	12933	2

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU59 ASPK SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Monday, May 09, 2011 16:05:58

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	379550	1
[ Be	9	23.886	ug/L	0.403	1	3	10359	0
C	13		mg/L			4456	6735	0
Cl	37		mg/L			2690010	2753451	0
> Sc	45		ug/L			264393	289427	0
V-1	51	45.976	ug/L	0.267	0	2140	621526	0
V	51	45.731	ug/L	0.359	0	975	629875	1
Cr	52	31.448	ug/L	0.436	1	6591	375656	0
Cr	53	31.615	ug/L	0.297	0	372	45119	0
Mn	55	230.156	ug/L	0.734	0	350	4540276	0
[ Co	59	26.037	ug/L	0.301	1	42	401756	0
> Ge	72		ug/L			385276	372512	0
Ni	60	33.682	ug/L	0.337	1	45	97607	0
Ni	62	37.796	ug/L	0.381	1	62	16880	0
Cu	63	39.485	ug/L	0.424	1	180	267233	0
Cu	65	39.416	ug/L	0.138	0	100	129687	0
Zn	66	119.336	ug/L	1.322	1	348	257295	0
Zn	67	113.161	ug/L	0.859	0	70	41145	0
Zn	68	118.406	ug/L	0.285	0	9052	189268	0
As-1	75	27.156	ug/L	0.054	0	-30	53380	0
As	75	27.081	ug/L	0.182	0	10544	63854	0
Se	82	77.501	ug/L	0.180	0	0	14977	0
Se	78	75.796	ug/L	0.564	0	10737	48712	0
[ Mo	98	-0.147	ug/L	0.003	1	1921	865	1
Y	89		ug/L			294548	391827	0
Kr	83		ug/L			77	92	4
> In	115		ug/L			417878	409039	0
Ag	107	22.888	ug/L	0.201	0	26	298161	0
Cd	111	24.554	ug/L	0.151	0	162	80110	0
Cd	114	24.378	ug/L	0.134	0	14	189112	0
Sb	121	0.008	ug/L	0.001	9	32	127	6
Sb	123	0.009	ug/L	0.001	13	25	104	10
Ba	135	76.438	ug/L	0.322	0	16	203814	0
[ Ba	137	76.767	ug/L	0.377	0	21	343755	0
> Tb	159		ug/L			395846	398615	0
Tl	205	23.260	ug/L	0.061	0	25	705684	0
Pb	208	30.161	ug/L	0.049	0	201	1244176	0
Bi	209		ug/L			342389	349371	0
Th	232	24.039	ug/L	0.154	0	203	1367334	0
[ U	238	23.290	ug/L	0.099	0	20	1400644	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV4

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, May 09, 2011 16:12:32

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	344339	1
[ Be	9	50.479	ug/L	0.810	1	3	19858	0
C	13		mg/L			4456	3692	1
Cl	37		mg/L			2690010	2806803	0
> Sc	45		ug/L			264393	246363	0
V-1	51	50.376	ug/L	0.272	0	2140	579488	0
V	51	50.480	ug/L	0.277	0	975	591724	0
Cr	52	50.771	ug/L	0.294	0	6591	512480	0
Cr	53	51.067	ug/L	0.372	0	372	61823	0
Mn	55	51.046	ug/L	0.246	0	350	857417	0
[ Co	59	50.980	ug/L	0.453	0	42	669566	0
> Ge	72		ug/L			385276	359920	0
Ni	60	51.425	ug/L	0.035	0	45	143972	0
Ni	62	50.627	ug/L	0.164	0	62	21827	0
Cu	63	51.684	ug/L	0.106	0	180	337921	0
Cu	65	51.065	ug/L	0.099	0	100	162311	0
Zn	66	50.792	ug/L	0.794	1	348	105996	1
Zn	67	51.953	ug/L	0.779	1	70	18287	1
Zn	68	51.292	ug/L	0.314	0	9052	84010	0
As-1	75	50.296	ug/L	0.293	0	-30	95548	0
As	75	50.142	ug/L	0.368	0	10544	105846	0
Se	82	50.695	ug/L	0.179	0	0	9466	0
Se	78	50.086	ug/L	0.350	0	10737	34503	0
[ Mo	98	50.970	ug/L	0.375	0	1921	333082	0
Y	89		ug/L			294548	274909	0
Kr	83		ug/L			77	78	1
> In	115		ug/L			417878	389122	0
Ag	107	50.831	ug/L	0.242	0	26	629886	0
Cd	111	50.322	ug/L	0.210	0	162	156029	0
Cd	114	50.193	ug/L	0.588	1	14	370384	0
Sb	121	50.071	ug/L	0.288	0	32	556538	0
Sb	123	50.102	ug/L	0.171	0	25	419818	0
Ba	135	49.118	ug/L	0.215	0	16	124594	0
[ Ba	137	49.342	ug/L	0.215	0	21	210188	0
> Tb	159		ug/L			395846	369243	0
Tl	205	48.941	ug/L	0.501	1	25	1375302	0
Pb	208	49.968	ug/L	0.277	0	201	1909150	0
Bi	209		ug/L			342389	325344	0
Th	232	51.971	ug/L	0.524	1	203	2737965	0
[ U	238	52.164	ug/L	0.720	1	20	2905658	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB4

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, May 09, 2011 16:19:44

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	360282	1
[ Be	9	0.002	ug/L	0.005	243	3	4	45
C	13		mg/L			4456	4215	1
Cl	37		mg/L			2690010	2850873	0
> Sc	45		ug/L			264393	255044	0
V-1	51	-0.001	ug/L	0.006	525	2140	2052	3
V	51	-0.002	ug/L	0.004	164	975	914	5
Cr	52	-0.001	ug/L	0.006	791	6591	6351	0
Cr	53	-0.004	ug/L	0.014	310	372	353	4
Mn	55	0.010	ug/L	0.001	12	350	510	3
[ Co	59	0.004	ug/L	0.001	30	42	100	18
> Ge	72		ug/L			385276	370820	0
Ni	60	-0.000	ug/L	0.003	1004	45	42	18
Ni	62	0.002	ug/L	0.022	1380	62	60	15
Cu	63	0.001	ug/L	0.003	250	180	182	11
Cu	65	-0.001	ug/L	0.002	154	100	92	7
Zn	66	-0.072	ug/L	0.006	9	348	182	7
Zn	67	-0.037	ug/L	0.001	3	70	54	1
Zn	68	-0.215	ug/L	0.035	16	9052	8386	1
As-1	75	0.002	ug/L	0.015	717	-30	-25	116
As	75	0.009	ug/L	0.038	435	10544	10166	0
Se	82	0.023	ug/L	0.029	130	0	4	113
Se	78	0.038	ug/L	0.111	289	10737	10353	0
[ Mo	98	0.256	ug/L	0.001	0	1921	134	4
Y	89		ug/L			294548	285170	0
Kr	83		ug/L			77	72	2
> In	115		ug/L			417878	407347	0
Ag	107	0.010	ug/L	0.001	5	26	154	4
Cd	111	0.017	ug/L	0.002	10	162	213	3
Cd	114	0.002	ug/L	0.001	42	14	33	24
Sb	121	0.019	ug/L	0.004	18	32	251	15
Sb	123	0.019	ug/L	0.002	10	25	192	8
Ba	135	0.001	ug/L	0.002	212	16	19	32
[ Ba	137	0.004	ug/L	0.001	19	21	40	9
> Tb	159		ug/L			395846	385170	0
Tl	205	0.004	ug/L	0.000	4	25	152	4
Pb	208	0.005	ug/L	0.000	5	201	383	2
Bi	209		ug/L			342389	340353	0
Th	232	0.037	ug/L	0.003	6	203	2243	5
[ U	238	0.006	ug/L	0.000	4	20	340	4

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU27 MB1 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, May 09, 2011 16:26:57

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	358051	0
[ Be	9	0.002	ug/L	0.005	233	3	4	45
C	13		mg/L			4456	5555	4
Cl	37		mg/L			2690010	2833570	0
> Sc	45		ug/L			264393	249726	0
V-1	51	0.025	ug/L	0.010	38	2140	2317	4
V	51	0.011	ug/L	0.002	14	975	1048	2
Cr	52	0.068	ug/L	0.010	15	6591	6913	1
Cr	53	0.019	ug/L	0.026	137	372	375	9
Mn	55	0.221	ug/L	0.006	2	350	4088	2
[ Co	59	0.006	ug/L	0.002	30	42	124	20
> Ge	72		ug/L			385276	366210	0
Ni	60	0.022	ug/L	0.002	7	45	106	4
Ni	62	0.066	ug/L	0.009	13	62	88	4
Cu	63	0.055	ug/L	0.006	10	180	534	6
Cu	65	0.055	ug/L	0.009	15	100	273	10
Zn	66	0.381	ug/L	0.007	1	348	1138	1
Zn	67	0.404	ug/L	0.026	6	70	211	4
Zn	68	0.388	ug/L	0.043	11	9052	9186	0
As-1	75	0.016	ug/L	0.008	50	-30	1	1440
As	75	0.115	ug/L	0.049	42	10544	10246	0
Se	82	0.044	ug/L	0.030	68	0	9	63
Se	78	0.424	ug/L	0.206	48	10737	10416	1
[ Mo	98	-0.254	ug/L	0.004	1	1921	147	18
Y	89		ug/L			294548	282488	0
Kr	83		ug/L			77	72	2
> In	115		ug/L			417878	402687	0
Ag	107	0.005	ug/L	0.000	7	26	87	5
Cd	111	0.017	ug/L	0.003	15	162	211	3
Cd	114	0.003	ug/L	0.002	59	14	35	35
Sb	121	0.010	ug/L	0.002	22	32	143	17
Sb	123	0.010	ug/L	0.002	20	25	108	15
Ba	135	0.022	ug/L	0.007	31	16	75	24
[ Ba	137	0.024	ug/L	0.002	8	21	125	7
> Tb	159		ug/L			395846	381462	0
Tl	205	0.002	ug/L	0.001	31	25	91	23
Pb	208	0.025	ug/L	0.002	6	201	1183	4
Bi	209		ug/L			342389	335758	0
Th	232	0.014	ug/L	0.001	4	203	955	4
[ U	238	0.002	ug/L	0.000	27	20	109	22

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU27 MB2 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, May 09, 2011 16:33:31

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\Caldat\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	356413	0
[ Be	9	-0.001	ug/L	0.002	174	3	2	24
C	13		mg/L			4456	6020	2
Cl	37		mg/L			2690010	2835604	0
> Sc	45		ug/L			264393	250387	0
V-1	51	0.025	ug/L	0.008	32	2140	2320	3
V	51	0.005	ug/L	0.002	54	975	978	2
Cr	52	✓ 0.072	ug/L	0.009	11	6591	6968	1
Cr	53	✓ 0.005	ug/L	0.026	564	372	358	8
Mn	55	✓ 0.034	ug/L	0.001	2	350	915	1
Co	59	✓ 0.003	ug/L	0.001	28	42	75	13
> Ge	72	✓	ug/L			385276	362757	0
Ni	60	✓ 0.012	ug/L	0.004	31	45	75	13
Ni	62	✓ 0.034	ug/L	0.008	24	62	73	4
Cu	63	✓ 0.038	ug/L	0.003	6	180	417	4
Cu	65	✓ 0.035	ug/L	0.006	16	100	205	8
Zn	66	✓ 0.132	ug/L	0.022	16	348	605	7
Zn	67	✓ 0.142	ug/L	0.046	32	70	116	14
Zn	68	✓ 0.143	ug/L	0.041	28	9052	8735	0
As-1	75	✓ 0.006	ug/L	0.006	93	-30	-16	68
As	75	✓ 0.136	ug/L	0.047	34	10544	10191	0
Se	82	✓ 0.062	ug/L	0.015	24	0	12	23
Se	78	✓ 0.550	ug/L	0.173	31	10737	10380	0
Mo	98	-0.264	ug/L	0.001	0	1921	82	8
Y	89		ug/L			294548	281122	0
Kr	83		ug/L			77	69	4
> In	115		ug/L			417878	400441	1
Ag	107	✓ 0.003	ug/L	0.000	3	26	63	3
Cd	111	✓ 0.019	ug/L	0.003	12	162	217	4
Cd	114	✓ -0.000	ug/L	0.000	556	14	13	21
Sb	121	✓ 0.003	ug/L	0.000	10	32	70	5
Sb	123	✓ 0.004	ug/L	0.000	6	25	62	5
Ba	135	✓ 0.011	ug/L	0.001	12	16	44	8
Ba	137	✓ 0.014	ug/L	0.004	29	21	82	22
> Tb	159		ug/L			395846	379005	0
Tl	205	✓ 0.001	ug/L	0.000	37	25	61	22
Pb	208	✓ 0.007	ug/L	0.000	4	201	464	2
Bi	209		ug/L			342389	335052	0
Th	232	✓ 0.015	ug/L	0.001	8	203	998	6
U	238	✓ 0.001	ug/L	0.000	27	20	63	18



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU27 MB2SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, May 09, 2011 16:40:06

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	369034	0
[ Be	9	24.432	ug/L	0.395	1	3	10303	1
C	13		mg/L			4456	6640	1
Cl	37		mg/L			2690010	2816163	0
> Sc	45		ug/L			264393	252084	1
V-1	51	25.988	ug/L	0.270	1	2140	306862	1
V	51	25.953	ug/L	0.201	0	975	311725	1
Cr	52	25.952	ug/L	0.177	0	6591	271106	0
Cr	53	25.846	ug/L	0.193	0	372	32190	0
Mn	55	26.592	ug/L	0.134	0	350	457187	1
Co	59	26.887	ug/L	0.501	1	42	361306	0
> Ge	72		ug/L			385276	364807	0
Ni	60	27.178	ug/L	0.095	0	45	77142	0
Ni	62	26.642	ug/L	0.176	0	62	11670	1
Cu	63	27.830	ug/L	0.135	0	180	184501	0
Cu	65	27.687	ug/L	0.548	1	100	89233	1
Zn	66	80.328	ug/L	0.819	1	348	169712	0
Zn	67	74.260	ug/L	0.775	1	70	26465	0
Zn	68	79.660	ug/L	0.672	0	9052	127500	0
As-1	75	24.857	ug/L	0.236	0	-30	47846	0
As	75	25.018	ug/L	0.115	0	10544	58532	0
Se	82	77.569	ug/L	1.272	1	0	14679	0
Se	78	76.627	ug/L	0.368	0	10737	48116	0
Mo	98	-0.261	ug/L	0.002	0	1921	97	10
Y	89		ug/L			294548	285719	0
Kr	83		ug/L			77	73	6
> In	115		ug/L			417878	405028	0
Ag	107	26.464	ug/L	0.561	2	26	341351	1
Cd	111	25.249	ug/L	0.259	1	162	81563	0
Cd	114	25.214	ug/L	0.397	1	14	193675	1
Sb	121	0.005	ug/L	0.000	7	32	89	5
Sb	123	0.006	ug/L	0.002	30	25	74	19
Ba	135	25.404	ug/L	0.188	0	16	67082	0
[ Ba	137	25.261	ug/L	0.298	1	21	112024	1
> Tb	159		ug/L			395846	384435	1
Tl	205	25.119	ug/L	0.096	0	25	734999	1
Pb	208	26.002	ug/L	0.201	0	201	1034412	0
Bi	209		ug/L			342389	342696	0
Th	232	24.931	ug/L	0.134	0	203	1367599	0
U	238	24.998	ug/L	0.158	0	20	1449784	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU27 MB1SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, May 09, 2011 16:46:41

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> LI	6		ug/L			356289	361943	1
[ Be	9	24.706	ug/L	0.306	1	3	10218	1
C	13		mg/L			4456	6372	1
Cl	37		mg/L			2690010	2807596	0
> Sc	45		ug/L			264393	251058	0
V-1	51	25.472	ug/L	0.126	0	2140	299596	0
V	51	25.440	ug/L	0.226	0	975	304344	0
Cr	52	25.408	ug/L	0.100	0	6591	264482	0
Cr	53	25.313	ug/L	0.351	1	372	31404	0
Mn	55	26.097	ug/L	0.182	0	350	446867	0
[ Co	59	26.530	ug/L	0.056	0	42	355111	0
> Ge	72		ug/L			385276	363669	0
NI	60	26.693	ug/L	0.440	1	45	75524	0
Ni	62	26.860	ug/L	0.521	1	62	11727	1
Cu	63	27.494	ug/L	0.245	0	180	181703	0
Cu	65	27.525	ug/L	0.233	0	100	88438	0
Zn	66	82.597	ug/L	1.095	1	348	173950	0
Zn	67	76.743	ug/L	0.879	1	70	27262	0
Zn	68	81.308	ug/L	1.312	1	9052	129550	0
As-1	75	24.797	ug/L	0.220	0	-30	47580	0
As	75	24.962	ug/L	0.188	0	10544	58238	0
Se	82	79.468	ug/L	1.138	1	0	14992	0
Se	78	78.515	ug/L	1.029	1	10737	48897	0
[ Mo	98	-0.264	ug/L	0.001	0	1921	78	8
Y	89		ug/L			294548	281047	0
Kr	83		ug/L			77	79	4
> In	115		ug/L			417878	403551	0
Ag	107	25.790	ug/L	0.162	0	26	331453	0
Cd	111	25.254	ug/L	0.096	0	162	81286	0
Cd	114	24.980	ug/L	0.082	0	14	191181	0
Sb	121	0.004	ug/L	0.001	29	32	73	17
Sb	123	0.004	ug/L	0.001	29	25	55	16
Ba	135	24.953	ug/L	0.227	0	16	65652	0
[ Ba	137	25.043	ug/L	0.076	0	21	110648	0
> Tb	159		ug/L			395846	384435	0
Tl	205	24.449	ug/L	0.187	0	25	715346	0
Pb	208	25.431	ug/L	0.078	0	201	1011749	0
Bi	209		ug/L			342389	337323	0
Th	232	24.435	ug/L	0.233	0	203	1340367	0
[ U	238	24.379	ug/L	0.071	0	20	1413977	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU27 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, May 09, 2011 16:53:16

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	361964	1
[ Be	9	0.137	ug/L	0.024	17	3	60	16
C	13		mg/L			4456	9324	0
Cl	37		mg/L			2690010	2559953	1
> Sc	45		ug/L			264393	284716	1
V-1	51	68.827	ug/L	0.547	0	2140	914095	1
V	51	67.579	ug/L	0.477	0	975	915100	0
Cr	52	7.999	ug/L	0.105	1	6591	99286	1
Cr	53	8.006	ug/L	0.091	1	372	11540	2
Mn	55	192.635	ug/L	0.625	0	350	3738262	1
[ Co	59	4.317	ug/L	0.033	0	42	65559	0
> Ge	72		ug/L			385276	355329	0
Ni	60	11.445	ug/L	0.132	1	45	31663	0
NI	62	12.477	ug/L	0.266	2	62	5353	1
Cu	63	90.665	ug/L	0.562	0	180	585092	0
Cu	65	90.097	ug/L	0.354	0	100	282642	0
Zn	66	301.921	ug/L	1.481	0	348	620440	0
Zn	67	280.279	ug/L	2.715	0	70	97113	0
Zn	68	301.208	ug/L	0.564	0	9052	446374	0
As-1	75	7.016	ug/L	0.029	0	-30	13133	0
As	75	6.879	ug/L	0.036	0	10544	22727	0
Se	82	0.326	ug/L	0.079	24	0	60	23
Se	78	0.139	ug/L	0.029	20	10737	9969	0
[ Mo	98	1.250	ug/L	0.012	0	1921	9791	0
Y	89		ug/L			294548	498467	0
Kr	83		ug/L			77	100	7
> In	115		ug/L			417878	391446	0
Ag	107	0.208	ug/L	0.002	0	26	2618	0
Cd	111	2.743	ug/L	0.029	1	162	8701	1
Cd	114	2.698	ug/L	0.047	1	14	20044	1
Sb	121	1.081	ug/L	0.012	1	32	12116	1
Sb	123	1.095	ug/L	0.017	1	25	9253	1
Ba	135	116.068	ug/L	1.222	1	16	296154	0
[ Ba	137	117.020	ug/L	0.753	0	21	501450	0
> Tb	159		ug/L			395846	392155	0
Tl	205	0.079	ug/L	0.004	5	25	2393	5
Pb	208	132.482	ug/L	0.726	0	201	5375717	0
Bi	209		ug/L			342389	333566	0
Th	232	0.299	ug/L	0.015	5	203	16953	4
[ U	238	0.308	ug/L	0.004	1	20	18250	1

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU27 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, May 09, 2011 16:59:52

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	362784	1
[ Be	9	0.015	ug/L	0.005	31	3	9	19
C	13		mg/L			4456	6815	1
Cl	37		mg/L			2690010	2540929	0
> Sc	45		ug/L			264393	251258	0
V-1	51	6.438	ug/L	0.061	0	2140	77304	0
V	51	6.337	ug/L	0.067	1	975	76572	1
Cr	52	1.309	ug/L	0.038	2	6591	19576	1
Cr	53	1.323	ug/L	0.022	1	372	1977	1
Mn	55	96.948	ug/L	1.106	1	350	1660461	1
[ Co	59	0.656	ug/L	0.004	0	42	8823	0
> Ge	72		ug/L			385276	347253	0
Ni	60	2.207	ug/L	0.053	2	45	5998	1
Ni	62	2.110	ug/L	0.074	3	62	931	3
Cu	63	10.391	ug/L	0.024	0	180	65677	0
Cu	65	10.379	ug/L	0.024	0	100	31899	0
Zn	66	67.182	ug/L	0.613	0	348	135161	0
Zn	67	60.945	ug/L	0.659	1	70	20685	0
Zn	68	66.421	ug/L	0.370	0	9052	102553	0
As-1	75	1.437	ug/L	0.026	1	-30	2607	1
As	75	1.402	ug/L	0.061	4	10544	12093	0
Se	82	0.304	ug/L	0.076	25	0	55	24
Se	78	0.192	ug/L	0.184	96	10737	9767	0
[ Mo	98	0.606	ug/L	0.002	0	1921	5533	0
Y	89		ug/L			294548	282602	0
Kr	83		ug/L			77	68	8
> In	115		ug/L			417878	387889	0
Ag	107	0.026	ug/L	0.003	13	26	342	12
Cd	111	0.420	ug/L	0.015	3	162	1446	2
Cd	114	0.393	ug/L	0.006	1	14	2905	1
Sb	121	0.815	ug/L	0.001	0	32	9057	0
Sb	123	0.827	ug/L	0.013	1	25	6932	1
Ba	135	9.589	ug/L	0.135	1	16	24256	0
[ Ba	137	9.666	ug/L	0.076	0	21	41059	0
> Tb	159		ug/L			395846	379192	0
Tl	205	0.023	ug/L	0.002	6	25	678	5
Pb	208	6.003	ug/L	0.045	0	201	235703	0
Bi	209		ug/L			342389	330216	0
Th	232	0.040	ug/L	0.001	2	203	2368	1
[ U	238	0.047	ug/L	0.001	2	20	2721	2

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU27 C REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, May 09, 2011 17:06:29

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>] Li	6		ug/L			356289	368339	1
[ ] Be	9	0.013	ug/L	0.003	24	3	8	14
[ ] C	13		mg/L			4456	7188	0
[ ] Cl	37		mg/L			2690010	2553400	0
[>] Sc	45		ug/L			264393	251787	0
[ ] V-1	51	4.859	ug/L	0.075	1	2140	58961	1
[ ] V	51	4.825	ug/L	0.053	1	975	58647	0
[ ] Cr	52	1.975	ug/L	0.072	3	6591	26408	2
[ ] Cr	53	2.055	ug/L	0.045	2	372	2883	1
[ ] Mn	55	196.095	ug/L	1.764	0	350	3365275	0
[ ] Co	59	0.443	ug/L	0.007	1	42	5981	1
[>] Ge	72		ug/L			385276	346998	0
[ ] Ni	60	1.759	ug/L	0.042	2	45	4787	2
[ ] Ni	62	1.781	ug/L	0.070	3	62	794	3
[ ] Cu	63	10.013	ug/L	0.024	0	180	63247	0
[ ] Cu	65	9.877	ug/L	0.143	1	100	30338	1
[ ] Zn	66	62.373	ug/L	0.130	0	348	125422	0
[ ] Zn	67	56.544	ug/L	0.376	0	70	19183	0
[ ] Zn	68	61.823	ug/L	0.611	0	9052	95951	0
[ ] As-1	75	1.510	ug/L	0.031	2	-30	2738	1
[ ] As	75	1.489	ug/L	0.047	3	10544	12245	0
[ ] Se	82	0.155	ug/L	0.035	22	0	28	21
[ ] Se	78	0.098	ug/L	0.150	153	10737	9716	0
[ ] Mo	98	0.336	ug/L	0.007	2	1921	3835	1
[ ] Y	89		ug/L			294548	282709	0
[ ] Kr	83		ug/L			77	67	10
[>] In	115		ug/L			417878	385838	1
[ ] Ag	107	0.025	ug/L	0.001	5	26	337	6
[ ] Cd	111	0.471	ug/L	0.005	1	162	1596	1
[ ] Cd	114	0.443	ug/L	0.004	0	14	3257	1
[ ] Sb	121	1.514	ug/L	0.017	1	32	16711	1
[ ] Sb	123	1.522	ug/L	0.013	0	25	12667	1
[ ] Ba	135	10.668	ug/L	0.100	0	16	26843	1
[ ] Ba	137	10.769	ug/L	0.178	1	21	45497	0
[>] Tb	159		ug/L			395846	379094	0
[ ] Tl	205	0.014	ug/L	0.000	2	25	422	2
[ ] Pb	208	5.569	ug/L	0.059	1	201	218633	0
[ ] Bi	209		ug/L			342389	326338	0
[ ] Th	232	0.038	ug/L	0.001	2	203	2223	1
[ ] U	238	0.034	ug/L	0.001	1	20	1944	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU27 D REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, May 09, 2011 17:13:06

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	372805	0
[ Be	9	-0.000	ug/L	0.004	1241	3	3	57
C	13		mg/L			4456	6294	1
Cl	37		mg/L			2690010	2474199	0
> Sc	45		ug/L			264393	245806	1
V-1	51	1.268	ug/L	0.012	0	2140	16491	0
V	51	1.249	ug/L	0.016	1	975	15488	0
Cr	52	0.185	ug/L	0.013	6	6591	7963	0
Cr	53	0.194	ug/L	0.028	14	372	579	4
Mn	55	45.134	ug/L	0.323	0	350	756401	0
[ Co	59	0.489	ug/L	0.001	0	42	6450	1
> Ge	72		ug/L			385276	340546	0
Ni	60	1.656	ug/L	0.021	1	45	4425	1
Ni	62	1.454	ug/L	0.116	7	62	647	8
Cu	63	3.584	ug/L	0.054	1	180	22320	1
Cu	65	3.531	ug/L	0.034	0	100	10701	0
Zn	66	19.728	ug/L	0.188	0	348	39144	1
Zn	67	17.821	ug/L	0.384	2	70	5976	2
Zn	68	19.438	ug/L	0.414	2	9052	35091	1
As-1	75	0.334	ug/L	0.010	3	-30	574	3
As	75	0.307	ug/L	0.019	6	10544	9877	0
Se	82	0.236	ug/L	0.004	1	0	42	1
Se	78	0.119	ug/L	0.079	66	10737	9545	0
[ Mo	98	0.426	ug/L	0.010	2	1921	4318	1
Y	89		ug/L			294548	272126	1
Kr	83		ug/L			77	65	8
> In	115		ug/L			417878	380858	0
Ag	107	0.004	ug/L	0.001	22	26	71	15
Cd	111	0.082	ug/L	0.008	10	162	396	5
Cd	114	0.068	ug/L	0.006	8	14	506	7
Sb	121	0.253	ug/L	0.007	2	32	2783	3
Sb	123	0.244	ug/L	0.005	1	25	2027	2
Ba	135	3.664	ug/L	0.049	1	16	9109	0
[ Ba	137	3.721	ug/L	0.020	0	21	15531	0
> Tb	159		ug/L			395846	380116	0
Tl	205	0.006	ug/L	0.000	7	25	196	7
Pb	208	0.261	ug/L	0.002	0	201	10447	0
Bi	209		ug/L			342389	324257	0
Th	232	0.009	ug/L	0.001	10	203	683	7
[ U	238	0.010	ug/L	0.000	4	20	570	3

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU27 E REN

Sample DII Factor: 2

Comments:

Sample Date/Time: Monday, May 09, 2011 17:19:39

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	372325	0
[ Be	9	0.001	ug/L	0.005	806	3	3	57
C	13		mg/L			4456	6560	0
Cl	37		mg/L			2690010	2446623	0
> Sc	45		ug/L			264393	240269	0
V-1	51	0.854	ug/L	0.004	0	2140	11488	1
V	51	0.834	ug/L	0.005	0	975	10408	0
Cr	52	0.251	ug/L	0.003	1	6591	8431	1
Cr	53	0.229	ug/L	0.030	12	372	607	5
Mn	55	61.094	ug/L	0.406	0	350	1000717	0
[ Co	59	0.252	ug/L	0.003	1	42	3270	0
> Ge	72		ug/L			385276	330118	0
Ni	60	1.358	ug/L	0.024	1	45	3525	2
Ni	62	1.121	ug/L	0.067	5	62	495	5
Cu	63	3.499	ug/L	0.070	2	180	21127	2
Cu	65	3.417	ug/L	0.018	0	100	10041	0
Zn	66	36.009	ug/L	0.141	0	348	69011	0
Zn	67	32.032	ug/L	0.448	1	70	10365	1
Zn	68	35.952	ug/L	0.292	0	9052	56329	0
As-1	75	0.504	ug/L	0.016	3	-30	851	3
As	75	0.611	ug/L	0.021	3	10544	10108	0
Se	82	0.171	ug/L	0.066	38	0	29	38
Se	78	0.626	ug/L	0.064	10	10737	9480	0
[ Mo	98	0.525	ug/L	0.003	0	1921	4773	0
Y	89		ug/L			294548	268820	0
Kr	83		ug/L			77	70	5
> In	115		ug/L			417878	375276	0
[ Ag	107	0.003	ug/L	0.001	32	26	55	18
Cd	111	0.165	ug/L	0.005	3	162	639	2
Cd	114	0.148	ug/L	0.005	3	14	1067	3
Sb	121	0.677	ug/L	0.011	1	32	7285	1
Sb	123	0.681	ug/L	0.007	1	25	5526	1
Ba	135	4.338	ug/L	0.032	0	16	10625	0
[ Ba	137	4.398	ug/L	0.063	1	21	18086	1
> Tb	159		ug/L			395846	377424	0
Tl	205	0.007	ug/L	0.001	10	25	230	8
Pb	208	0.150	ug/L	0.002	1	201	6064	0
Bi	209		ug/L			342389	319207	0
Th	232	0.007	ug/L	0.000	3	203	572	1
[ U	238	0.017	ug/L	0.000	2	20	985	1

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU59 B SWN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Monday, May 09, 2011 17:26:09

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> LI	6		ug/L			356289	374166	0
[ Be	9	0.149	ug/L	0.018	11	3	67	11
C	13		mg/L			4456	7135	2
Cl	37		mg/L			2690010	2484413	0
> Sc	45		ug/L			264393	257011	0
V-1	51	22.977	ug/L	0.188	0	2140	276863	1
V	51	22.673	ug/L	0.209	0	975	277792	1
Cr	52	9.334	ug/L	0.106	1	6591	103522	0
Cr	53	9.263	ug/L	0.031	0	372	11995	0
Mn	55	178.855	ug/L	0.417	0	350	3133198	0
[ Co	59	3.927	ug/L	0.035	0	42	53844	0
> Ge	72		ug/L			385276	343654	0
NI	60	8.299	ug/L	0.077	0	45	22218	0
NI	62	12.284	ug/L	0.194	1	62	5098	1
Cu	63	12.868	ug/L	0.037	0	180	80454	0
Cu	65	13.087	ug/L	0.067	0	100	39784	0
Zn	66	38.685	ug/L	0.158	0	348	77157	0
Zn	67	37.936	ug/L	0.170	0	70	12767	0
Zn	68	38.161	ug/L	0.236	0	9052	61746	0
As-1	75	2.589	ug/L	0.030	1	-30	4669	1
As	75	2.483	ug/L	0.042	1	10544	13944	0
Se	82	0.086	ug/L	0.018	21	0	15	20
Se	78	-0.191	ug/L	0.062	32	10737	9488	0
[ Mo	98	-0.133	ug/L	0.001	1	1921	887	1
Y	89		ug/L			294548	368042	0
Kr	83		ug/L			77	80	1
> In	115		ug/L			417878	385113	1
Ag	107	0.068	ug/L	0.002	3	26	855	3
Cd	111	0.283	ug/L	0.017	5	162	1016	4
Cd	114	0.088	ug/L	0.007	8	14	657	7
Sb	121	0.010	ug/L	0.001	14	32	137	11
Sb	123	0.011	ug/L	0.001	4	25	115	2
Ba	135	49.723	ug/L	0.779	1	16	124820	0
[ Ba	137	50.311	ug/L	0.530	1	21	212098	0
> Tb	159		ug/L			395846	387770	0
Tl	205	0.037	ug/L	0.001	2	25	1129	1
Pb	208	9.102	ug/L	0.072	0	201	365374	0
Bi	209		ug/L			342389	332153	0
Th	232	0.851	ug/L	0.009	1	203	47258	0
[ U	238	0.242	ug/L	0.003	1	20	14166	0



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV5

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, May 09, 2011 17:32:41

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			356289	359395	0
[ Be	9	49.008	ug/L	0.230	0	3	20124	0
C	13		mg/L			4456	3519	1
Cl	37		mg/L			2690010	2527491	0
[> Sc	45		ug/L			264393	226616	0
V-1	51	51.163	ug/L	0.255	0	2140	541341	1
V	51	51.128	ug/L	0.123	0	975	551276	0
Cr	52	51.406	ug/L	0.335	0	6591	477240	1
Cr	53	51.282	ug/L	0.269	0	372	57105	0
Mn	55	51.438	ug/L	0.152	0	350	794731	0
[ Co	59	51.991	ug/L	0.438	0	42	628106	0
[> Ge	72		ug/L			385276	334232	0
Ni	60	51.786	ug/L	0.634	1	45	134632	1
Ni	62	51.183	ug/L	0.552	1	62	20491	0
Cu	63	51.920	ug/L	0.453	0	180	315235	0
Cu	65	51.302	ug/L	0.376	0	100	151422	0
Zn	66	51.252	ug/L	0.208	0	348	99321	0
Zn	67	51.322	ug/L	0.972	1	70	16776	1
Zn	68	51.377	ug/L	0.164	0	9052	78132	0
As-1	75	50.191	ug/L	0.307	0	-30	88544	0
As	75	50.090	ug/L	0.406	0	10544	98199	0
Se	82	51.194	ug/L	0.450	0	0	8877	0
Se	78	50.746	ug/L	0.886	1	10737	32340	0
[ Mo	98	52.365	ug/L	0.246	0	1921	317730	0
Y	89		ug/L			294548	263020	0
Kr	83		ug/L			77	68	5
[> In	115		ug/L			417878	372247	0
Ag	107	50.615	ug/L	0.791	1	26	599978	0
Cd	111	50.719	ug/L	0.356	0	162	150444	1
Cd	114	50.473	ug/L	0.281	0	14	356313	0
Sb	121	49.943	ug/L	0.270	0	32	531037	0
Sb	123	50.031	ug/L	0.427	0	25	401028	0
Ba	135	49.519	ug/L	0.442	0	16	120160	0
[ Ba	137	49.849	ug/L	0.508	1	21	203133	0
[> Tb	159		ug/L			395846	371681	1
Tl	205	47.799	ug/L	0.477	0	25	1352044	0
Pb	208	48.640	ug/L	0.666	1	201	1870515	0
Bi	209		ug/L			342389	318298	0
Th	232	50.860	ug/L	0.777	1	203	2696879	0
[ U	238	51.285	ug/L	0.192	0	20	2875687	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB5

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, May 09, 2011 17:39:54

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			356289	374976	1
[ Be	9	-0.002	ug/L	0.005	210	3	2	86
C	13		mg/L			4456	3884	1
Cl	37		mg/L			2690010	2575891	0
[> Sc	45		ug/L			264393	232438	0
V-1	51	0.004	ug/L	0.008	186	2140	1929	4
V	51	-0.007	ug/L	0.002	33	975	783	2
Cr	52	0.006	ug/L	0.013	197	6591	5854	1
Cr	53	-0.029	ug/L	0.014	48	372	295	5
Mn	55	0.012	ug/L	0.003	28	350	490	10
[ Co	59	0.005	ug/L	0.000	2	42	95	0
[> Ge	72		ug/L			385276	344474	0
Ni	60	0.000	ug/L	0.003	1460	45	40	21
Ni	62	0.020	ug/L	0.017	85	62	64	11
Cu	63	0.002	ug/L	0.001	88	180	171	5
Cu	65	-0.000	ug/L	0.005	2337	100	89	15
Zn	66	-0.078	ug/L	0.007	8	348	156	8
Zn	67	-0.029	ug/L	0.037	129	70	53	23
Zn	68	-0.304	ug/L	0.095	31	9052	7665	1
As-1	75	0.002	ug/L	0.017	909	-30	-24	125
As	75	-0.013	ug/L	0.036	266	10544	9403	0
Se	82	0.030	ug/L	0.054	179	0	6	161
Se	78	-0.065	ug/L	0.130	199	10737	9569	0
[ Mo	98	-0.258	ug/L	0.001	0	1921	115	7
Y	89		ug/L			294548	275290	0
Kr	83		ug/L			77	62	1
[> In	115		ug/L			417878	387917	0
Ag	107	0.009	ug/L	0.002	22	26	130	18
Cd	111	0.012	ug/L	0.008	63	162	187	12
Cd	114	0.003	ug/L	0.001	41	14	34	25
Sb	121	0.019	ug/L	0.003	14	32	240	12
Sb	123	0.021	ug/L	0.007	34	25	198	30
Ba	135	0.004	ug/L	0.002	56	16	25	22
[ Ba	137	0.003	ug/L	0.002	56	21	32	22
[> Tb	159		ug/L			395846	382700	1
Tl	205	0.004	ug/L	0.001	13	25	133	9
Pb	208	0.004	ug/L	0.001	15	201	347	7
Bi	209		ug/L			342389	329525	0
Th	232	0.035	ug/L	0.002	5	203	2105	3
[ U	238	0.004	ug/L	0.000	7	20	278	7

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU53 MB1 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, May 09, 2011 17:57:34

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>] Li	6		ug/L			356289	372582	0
[ ] Be	9	0.005	ug/L	0.007	162	3	5	58
[ ] C	13		mg/L			4456	5791	1
[ ] Cl	37		mg/L			2690010	2577628	0
[>] Sc	45		ug/L			264393	232279	0
[ ] V-1	51	0.032	ug/L	0.009	27	2140	2221	4
[ ] V	51	-0.001	ug/L	0.001	60	975	842	1
[ ] Cr	52	0.094	ug/L	0.017	17	6591	6679	2
[ ] Cr	53	-0.012	ug/L	0.019	163	372	313	6
[ ] Mn	55	0.036	ug/L	0.001	1	350	870	0
[ ] Co	59	0.005	ug/L	0.000	8	42	97	5
[>] Ge	72		ug/L			385276	339806	0
[ ] Ni	60	0.045	ug/L	0.004	8	45	158	6
[ ] Ni	62	0.036	ug/L	0.020	57	62	69	11
[ ] Cu	63	0.088	ug/L	0.004	4	180	701	3
[ ] Cu	65	0.076	ug/L	0.011	15	100	317	10
[ ] Zn	66	0.219	ug/L	0.016	7	348	737	3
[ ] Zn	67	0.238	ug/L	0.009	3	70	140	2
[ ] Zn	68	0.158	ug/L	0.049	31	9052	8204	1
[ ] As-1	75	0.008	ug/L	0.012	154	-30	-13	161
[ ] As	75	0.084	ug/L	0.064	75	10544	9452	0
[ ] Se	82	0.023	ug/L	0.040	177	0	4	153
[ ] Se	78	0.336	ug/L	0.252	74	10737	9624	0
[ ] Mo	98	-0.261	ug/L	0.000	0	1921	90	2
[ ] Y	89		ug/L			294548	271709	0
[ ] Kr	83		ug/L			77	71	9
[>] In	115		ug/L			417878	379472	0
[ ] Ag	107	0.002	ug/L	0.001	36	26	51	19
[ ] Cd	111	0.011	ug/L	0.006	52	162	180	9
[ ] Cd	114	0.001	ug/L	0.001	168	14	17	35
[ ] Sb	121	0.003	ug/L	0.001	45	32	62	24
[ ] Sb	123	0.003	ug/L	0.000	2	25	45	1
[ ] Ba	135	0.031	ug/L	0.004	12	16	92	10
[ ] Ba	137	0.028	ug/L	0.004	12	21	137	10
[>] Tb	159		ug/L			395846	376866	0
[ ] Tl	205	0.001	ug/L	0.000	17	25	54	9
[ ] Pb	208	0.015	ug/L	0.001	7	201	792	5
[ ] Bi	209		ug/L			342389	328347	0
[ ] Th	232	0.009	ug/L	0.001	6	203	690	5
[ ] U	238	0.001	ug/L	0.000	14	20	54	9

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU53 MB1SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, May 09, 2011 18:04:05

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> LI	6		ug/L			356289	362549	0
[ Be	9	24.952	ug/L	0.204	0	3	10337	0
C	13		mg/L			4456	6524	1
Cl	37		mg/L			2690010	2563316	0
> Sc	45		ug/L			264393	229902	0
V-1	51	26.538	ug/L	0.242	0	2140	285746	0
V	51	26.514	ug/L	0.211	0	975	290432	0
Cr	52	26.677	ug/L	0.147	0	6591	253998	0
Cr	53	26.595	ug/L	0.089	0	372	30200	0
Mn	55	27.540	ug/L	0.218	0	350	431836	1
[ Co	59	27.645	ug/L	0.313	1	42	338853	1
> Ge	72		ug/L			385276	338699	0
Ni	60	27.754	ug/L	0.275	0	45	73134	0
Ni	62	27.481	ug/L	0.357	1	62	11175	2
Cu	63	28.566	ug/L	0.142	0	180	175824	0
Cu	65	28.140	ug/L	0.105	0	100	84205	0
Zn	66	81.188	ug/L	0.733	0	348	159251	0
Zn	67	74.832	ug/L	0.416	0	70	24760	0
Zn	68	80.040	ug/L	0.661	0	9052	118905	0
As-1	75	25.591	ug/L	0.229	0	-30	45733	0
As	75	25.501	ug/L	0.331	1	10544	55209	0
Se	82	80.198	ug/L	0.724	0	0	14091	0
Se	78	78.245	ug/L	1.020	1	10737	45415	0
[ Mo	98	-0.260	ug/L	0.004	1	1921	97	23
Y	89		ug/L			294548	268826	0
Kr	83		ug/L			77	72	12
> In	115		ug/L			417878	380884	0
Ag	107	26.699	ug/L	0.307	1	26	323873	1
Cd	111	25.699	ug/L	0.148	0	162	78070	0
Cd	114	25.570	ug/L	0.241	0	14	184707	1
Sb	121	0.004	ug/L	0.001	20	32	73	12
Sb	123	0.006	ug/L	0.000	6	25	72	3
Ba	135	25.617	ug/L	0.282	1	16	63614	1
[ Ba	137	25.974	ug/L	0.219	0	21	108314	0
> Tb	159		ug/L			395846	377582	0
Tl	205	25.090	ug/L	0.266	1	25	721016	0
Pb	208	25.837	ug/L	0.296	1	201	1009513	0
Bi	209		ug/L			342389	327671	0
Th	232	24.816	ug/L	0.246	0	203	1336976	0
[ U	238	25.143	ug/L	0.216	0	20	1432185	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU53 ADUP REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, May 09, 2011 18:10:37

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	357575	0
[ Be	9	0.013	ug/L	0.017	129	3	8	79
C	13		mg/L			4456	7239	0
Cl	37		mg/L			2690010	2370993	1
> Sc	45		ug/L			264393	255376	0
V-1	51	0.647	ug/L	0.011	1	2140	9759	1
V	51	0.627	ug/L	0.012	1	975	8551	1
Cr	52	0.387	ug/L	0.006	1	6591	10371	0
Cr	53	0.341	ug/L	0.018	5	372	785	2
Mn	55	13519.471	ug/L	167.624	1	350	235308620	1
Co	59	3.260	ug/L	0.010	0	42	44426	0
> Ge	72		ug/L			385276	319236	1
Ni	60	7.731	ug/L	0.157	2	45	19231	3
Ni	62	6.758	ug/L	0.066	0	62	2629	1
Cu	63	0.576	ug/L	0.013	2	180	3485	3
Cu	65	0.575	ug/L	0.018	3	100	1702	2
Zn	66	1.953	ug/L	0.015	0	348	3893	1
Zn	67	2.845	ug/L	0.140	4	70	943	3
Zn	68	2.871	ug/L	0.046	1	9052	11251	0
As-1	75	4.529	ug/L	0.025	0	-30	7607	0
As	75	4.481	ug/L	0.024	0	10544	16346	1
Se	82	0.541	ug/L	0.075	13	0	90	12
Se	78	0.469	ug/L	0.087	18	10737	9100	1
Mo	98	1.549	ug/L	0.050	3	1921	10519	1
Y	89		ug/L			294548	278292	0
Kr	83		ug/L			77	64	6
> In	115		ug/L			417878	359649	0
Ag	107	0.018	ug/L	0.002	10	26	233	9
Cd	111	0.097	ug/L	0.013	13	162	417	8
Cd	114	0.060	ug/L	0.002	3	14	422	3
Sb	121	0.065	ug/L	0.002	3	32	698	3
Sb	123	0.068	ug/L	0.003	4	25	548	4
Ba	135	42.823	ug/L	0.329	0	16	100402	1
Ba	137	43.496	ug/L	0.219	0	21	171257	0
> Tb	159		ug/L			395846	367765	0
Tl	205	0.016	ug/L	0.001	3	25	463	2
Pb	208	0.027	ug/L	0.001	4	201	1200	3
Bi	209		ug/L			342389	307311	0
Th	232	0.065	ug/L	0.012	17	203	3573	16
U	238	0.187	ug/L	0.005	2	20	10384	1

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU53 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, May 09, 2011 18:17:09

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\050911.caf

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	353740	1
[ Be	9	0.003	ug/L	0.002	53	3	4	15
C	13		mg/L			4456	6614	1
Cl	37		mg/L			2690010	2316794	0
> Sc	45		ug/L			264393	253437	0
V-1	51	0.613	ug/L	0.016	2	2140	9285	1
V	51	0.617	ug/L	0.016	2	975	8361	1
Cr	52	0.353	ug/L	0.013	3	6591	9941	0
Cr	53	0.380	ug/L	0.019	4	372	828	2
Mn	55	13652.895	ug/L	105.796	0	350	235816107	0
[ Co	59	3.242	ug/L	0.033	1	42	43839	0
> Ge	72		ug/L			385276	313865	1
Ni	60	7.713	ug/L	0.116	1	45	18858	0
Ni	62	6.867	ug/L	0.076	1	62	2626	2
Cu	63	0.525	ug/L	0.006	1	180	3138	1
Cu	65	0.535	ug/L	0.010	1	100	1564	1
Zn	66	1.899	ug/L	0.042	2	348	3729	2
Zn	67	2.809	ug/L	0.071	2	70	916	2
Zn	68	2.903	ug/L	0.092	3	9052	11103	1
As-1	75	4.548	ug/L	0.024	0	-30	7511	1
As	75	4.484	ug/L	0.069	1	10544	16076	0
Se	82	0.486	ug/L	0.068	14	0	79	13
Se	78	0.398	ug/L	0.247	62	10737	8915	0
[ Mo	98	1.585	ug/L	0.040	2	1921	10547	2
Y	89		ug/L			294548	274515	0
Kr	83		ug/L			77	70	11
> In	115		ug/L			417878	359060	0
Ag	107	0.003	ug/L	0.001	34	26	60	21
Cd	111	0.076	ug/L	0.007	9	162	358	5
Cd	114	0.049	ug/L	0.003	6	14	346	6
Sb	121	0.067	ug/L	0.002	3	32	710	3
Sb	123	0.067	ug/L	0.001	1	25	538	1
Ba	135	43.028	ug/L	0.246	0	16	100718	0
[ Ba	137	43.217	ug/L	0.306	0	21	169880	0
> Tb	159		ug/L			395846	368613	0
Tl	205	0.009	ug/L	0.000	1	25	277	1
Pb	208	0.014	ug/L	0.001	5	201	733	3
Bi	209		ug/L			342389	307008	0
Th	232	0.020	ug/L	0.000	1	203	1251	1
[ U	238	0.173	ug/L	0.001	0	20	9655	0

## ICP-MS Quantitative Analysis - Summary Report

**Sample ID: SU53 ASPK REN**

**Sample Dil Factor: 2**

**Comments:**

**Sample Date/Time: Monday, May 09, 2011 18:23:41**

**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\050911.cal**

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> LI	6		ug/L			356289	356060	0
[ Be	9	23.279	ug/L	0.318	1	3	9472	1
C	13		mg/L			4456	7138	2
Cl	37		mg/L			2690010	2259930	0
[> Sc	45		ug/L			264393	245545	0
V-1	51	23.221	ug/L	0.306	1	2140	267285	0
V	51	23.194	ug/L	0.298	1	975	271453	0
Cr	52	22.902	ug/L	0.264	1	6591	233751	0
Cr	53	22.838	ug/L	0.301	1	372	27746	1
Mn	55	13507.215	ug/L	295.148	2	350	226024886	1
[ Co	59	25.941	ug/L	0.357	1	42	339592	1
[> Ge	72		ug/L			385276	307151	0
Ni	60	34.075	ug/L	0.422	1	45	81427	1
Ni	62	32.534	ug/L	0.468	1	62	11987	1
Cu	63	26.796	ug/L	0.171	0	180	149580	0
Cu	65	26.402	ug/L	0.295	1	100	71657	1
Zn	66	78.180	ug/L	0.151	0	348	139083	0
Zn	67	73.834	ug/L	1.044	1	70	22157	1
Zn	68	78.189	ug/L	0.414	0	9052	105507	1
As-1	75	30.034	ug/L	0.144	0	-30	48681	0
As	75	29.630	ug/L	0.210	0	10544	56818	1
Se	82	80.566	ug/L	0.717	0	0	12838	0
Se	78	77.542	ug/L	0.889	1	10737	40895	1
[ Mo	98	1.562	ug/L	0.012	0	1921	10193	0
Y	89		ug/L			294548	270212	0
Kr	83		ug/L			77	71	2
[> In	115		ug/L			417878	352162	0
Ag	107	24.661	ug/L	0.161	0	26	276579	0
Cd	111	24.949	ug/L	0.271	1	162	70074	0
Cd	114	24.926	ug/L	0.159	0	14	166480	1
Sb	121	0.064	ug/L	0.004	6	32	675	6
Sb	123	0.068	ug/L	0.003	4	25	534	4
Ba	135	66.880	ug/L	0.750	1	16	153524	0
[ Ba	137	68.042	ug/L	0.598	0	21	262314	1
[> Tb	159		ug/L			395846	364247	0
Tl	205	23.888	ug/L	0.120	0	25	662237	0
Pb	208	24.386	ug/L	0.109	0	201	919222	0
Bi	209		ug/L			342389	302999	0
Th	232	24.607	ug/L	0.043	0	203	1278982	0
[ U	238	24.965	ug/L	0.088	0	20	1371926	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU53 C REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, May 09, 2011 18:30:14

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\050911.cai

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	368203	1
[ Be	9	0.009	ug/L	0.008	97	3	7	50
C	13		mg/L			4456	5918	1
Cl	37		mg/L			2690010	2182495	1
> Sc	45		ug/L			264393	237328	0
V-1	51	1.429	ug/L	0.041	2	2140	17707	2
V	51	1.424	ug/L	0.029	2	975	16937	2
Cr	52	0.519	ug/L	0.006	1	6591	10906	0
Cr	53	0.562	ug/L	0.037	6	372	986	3
Mn	55	40.711	ug/L	0.350	0	350	658825	1
[ Co	59	0.731	ug/L	0.014	1	42	9288	1
> Ge	72		ug/L			385276	303756	0
Ni	60	13.833	ug/L	0.114	0	45	32712	1
Ni	62	13.514	ug/L	0.107	0	62	4953	0
Cu	63	0.398	ug/L	0.000	0	180	2339	0
Cu	65	0.399	ug/L	0.031	7	100	1149	7
Zn	66	1.036	ug/L	0.021	1	348	2093	1
Zn	67	1.205	ug/L	0.011	0	70	412	0
Zn	68	1.052	ug/L	0.105	10	9052	8444	1
As-1	75	0.395	ug/L	0.007	1	-30	609	2
As	75	0.250	ug/L	0.071	28	10544	8717	1
Se	82	0.398	ug/L	0.105	26	0	63	26
Se	78	-0.149	ug/L	0.281	188	10737	8403	1
[ Mo	98	-0.024	ug/L	0.007	28	1921	1383	2
Y	89		ug/L			294548	253528	0
Kr	83		ug/L			77	64	6
> In	115		ug/L			417878	353077	1
Ag	107	0.010	ug/L	0.001	10	26	140	10
Cd	111	0.031	ug/L	0.006	18	162	223	6
Cd	114	0.024	ug/L	0.003	10	14	176	11
Sb	121	0.084	ug/L	0.002	2	32	876	3
Sb	123	0.087	ug/L	0.001	1	25	680	2
Ba	135	7.670	ug/L	0.053	0	16	17665	0
[ Ba	137	7.783	ug/L	0.118	1	21	30095	0
> Tb	159		ug/L			395846	373591	0
Tl	205	0.010	ug/L	0.000	3	25	300	2
Pb	208	0.017	ug/L	0.001	6	201	854	4
Bi	209		ug/L			342389	307076	0
Th	232	0.035	ug/L	0.008	23	203	2045	21
[ U	238	0.014	ug/L	0.000	2	20	804	2



## ICP-MS Quantitative Analysis - Summary Report

**Sample ID: SU53 E REN**

**Sample Dil Factor: 2**

**Comments:**

**Sample Date/Time: Monday, May 09, 2011 18:36:47**

**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\050911.cal**

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> LI	6		ug/L			356289	368019	1
[ Be	9	-0.000	ug/L	0.007	2517	3	3	94
C	13		mg/L			4456	6176	1
Cl	37		mg/L			2690010	2180932	0
[> Sc	45		ug/L			264393	242978	0
V-1	51	1.457	ug/L	0.039	2	2140	18439	1
V	51	1.552	ug/L	0.022	1	975	18814	0
Cr	52	2.645	ug/L	0.058	2	6591	32068	1
Cr	53	2.865	ug/L	0.126	4	372	3743	4
Mn	55	3.640	ug/L	0.058	1	350	60595	2
[ Co	59	0.055	ug/L	0.000	0	42	745	0
[> Ge	72		ug/L			385276	296456	0
NI	60	3.616	ug/L	0.050	1	45	8370	1
NI	62	3.261	ug/L	0.125	3	62	1203	3
Cu	63	0.407	ug/L	0.010	2	180	2327	2
Cu	65	0.306	ug/L	0.011	3	100	878	3
Zn	66	0.691	ug/L	0.021	2	348	1452	2
Zn	67	1.075	ug/L	0.091	8	70	364	7
Zn	68	0.847	ug/L	0.182	21	9052	7993	2
As-1	75	0.412	ug/L	0.005	1	-30	620	1
As	75	0.336	ug/L	0.011	3	10544	8642	0
Se	82	0.149	ug/L	0.050	33	0	23	32
Se	78	-0.149	ug/L	0.099	66	10737	8202	0
[ Mo	98	-0.246	ug/L	0.003	1	1921	159	10
Y	89		ug/L			294548	249978	0
Kr	83		ug/L			77	58	7
[> In	115		ug/L			417878	344724	0
Ag	107	0.004	ug/L	0.000	4	26	60	2
Cd	111	0.009	ug/L	0.006	61	162	159	9
Cd	114	0.008	ug/L	0.001	10	14	63	8
Sb	121	0.021	ug/L	0.002	7	32	230	7
Sb	123	0.020	ug/L	0.003	12	25	170	10
Ba	135	8.400	ug/L	0.039	0	16	18888	0
[ Ba	137	8.529	ug/L	0.062	0	21	32204	1
[> Tb	159		ug/L			395846	367678	0
Tl	205	0.003	ug/L	0.001	23	25	111	18
Pb	208	0.010	ug/L	0.001	7	201	562	5
Bi	209		ug/L			342389	299291	0
Th	232	0.009	ug/L	0.000	4	203	641	3
[ U	238	0.011	ug/L	0.000	3	20	634	3

## ICP-MS Quantitative Analysis - Summary Report

**Sample ID: SU45 A REN**

**Sample Dil Factor: 2**

**Comments:**

**Sample Date/Time: Monday, May 09, 2011 18:43:21**

**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\050911.cal**

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	374865	0
[ Be	9	0.077	ug/L	0.021	27	3	36	23
C	13		mg/L			4456	7187	1
Cl	37		mg/L			2690010	2153470	0
> Sc	45		ug/L			264393	231881	1
V-1	51	11.135	ug/L	0.116	1	2140	122006	0
V	51	11.076	ug/L	0.073	0	975	122864	0
Cr	52	7.913	ug/L	0.073	0	6591	80050	0
Cr	53	7.936	ug/L	0.059	0	372	9319	2
Mn	55	117.305	ug/L	1.171	0	350	1853987	0
[ Co	59	2.496	ug/L	0.018	0	42	30897	2
> Ge	72		ug/L			385276	306978	0
Ni	60	7.970	ug/L	0.178	2	45	19063	2
Ni	62	9.139	ug/L	0.134	1	62	3401	1
Cu	63	35.649	ug/L	0.133	0	180	198839	0
Cu	65	35.282	ug/L	0.267	0	100	95671	0
Zn	66	248.215	ug/L	0.701	0	348	440734	0
Zn	67	221.254	ug/L	3.153	1	70	66244	1
Zn	68	244.148	ug/L	1.014	0	9052	313947	0
As-1	75	2.920	ug/L	0.030	1	-30	4708	1
As	75	2.725	ug/L	0.024	0	10544	12851	0
Se	82	0.063	ug/L	0.039	61	0	10	58
Se	78	-0.550	ug/L	0.045	8	10737	8325	0
[ Mo	98	1.159	ug/L	0.024	2	1921	7955	1
Y	89		ug/L			294548	286363	0
Kr	83		ug/L			77	72	3
> In	115		ug/L			417878	351048	0
Ag	107	0.032	ug/L	0.001	1	26	385	1
Cd	111	0.198	ug/L	0.005	2	162	689	2
Cd	114	0.132	ug/L	0.007	5	14	890	4
Sb	121	0.521	ug/L	0.005	1	32	5246	0
Sb	123	0.528	ug/L	0.016	2	25	4008	2
Ba	135	45.106	ug/L	0.274	0	16	103220	0
[ Ba	137	45.700	ug/L	0.276	0	21	175630	0
> Tb	159		ug/L			395846	373079	0
Tl	205	0.026	ug/L	0.001	5	25	774	5
Pb	208	12.108	ug/L	0.017	0	201	467577	0
Bi	209		ug/L			342389	310661	0
Th	232	0.310	ug/L	0.006	1	203	16667	1
[ U	238	0.153	ug/L	0.003	1	20	8632	1

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU45 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, May 09, 2011 18:49:56

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			356289	376489	0
[ Be	9	0.012	ug/L	0.003	24	3	8	14
C	13		mg/L			4456	7002	0
Cl	37		mg/L			2690010	2168422	0
[> Sc	45		ug/L			264393	217242	1
V-1	51	3.905	ug/L	0.052	1	2140	41229	1
V	51	3.859	ug/L	0.053	1	975	40621	1
Cr	52	1.987	ug/L	0.031	1	6591	22892	2
Cr	53	1.966	ug/L	0.032	1	372	2392	1
Mn	55	206.862	ug/L	1.481	0	350	3062936	1
[ Co	59	0.718	ug/L	0.006	0	42	8344	1
[> Ge	72		ug/L			385276	310466	0
Ni	60	2.015	ug/L	0.032	1	45	4901	1
Ni	62	2.081	ug/L	0.065	3	62	822	2
Cu	63	7.093	ug/L	0.060	0	180	40126	0
Cu	65	7.012	ug/L	0.048	0	100	19295	0
Zn	66	63.387	ug/L	0.118	0	348	114037	0
Zn	67	56.663	ug/L	0.487	0	70	17200	0
Zn	68	62.088	ug/L	0.199	0	9052	86186	0
As-1	75	0.898	ug/L	0.010	1	-30	1446	0
As	75	0.714	ug/L	0.026	3	10544	9675	0
Se	82	0.073	ug/L	0.044	60	0	12	57
Se	78	-0.576	ug/L	0.078	13	10737	8409	0
[ Mo	98	0.187	ug/L	0.001	0	1921	2596	0
Y	89		ug/L			294548	266793	0
Kr	83		ug/L			77	70	5
[> In	115		ug/L			417878	356570	0
Ag	107	0.017	ug/L	0.001	4	26	213	4
Cd	111	0.337	ug/L	0.015	4	162	1094	3
Cd	114	0.299	ug/L	0.010	3	14	2034	3
Sb	121	10.407	ug/L	0.016	0	32	106017	0
Sb	123	10.396	ug/L	0.044	0	25	79842	0
Ba	135	13.782	ug/L	0.258	1	16	32045	1
[ Ba	137	13.934	ug/L	0.258	1	21	54404	1
[> Tb	159		ug/L			395846	377261	0
Tl	205	0.008	ug/L	0.001	7	25	247	6
Pb	208	6.180	ug/L	0.031	0	201	241436	0
Bi	209		ug/L			342389	317141	0
Th	232	0.036	ug/L	0.001	2	203	2106	1
[ U	238	0.038	ug/L	0.001	2	20	2189	3

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU27 F REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Monday, May 09, 2011 18:56:31

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	374061	0
[ Be	9	-0.002	ug/L	0.005	216	3	2	86
C	13		mg/L			4456	6000	2
Cl	37		mg/L			2690010	2175267	0
> Sc	45		ug/L			264393	217315	0
V-1	51	0.622	ug/L	0.002	0	2140	8047	0
V	51	0.635	ug/L	0.006	0	975	7355	0
Cr	52	0.381	ug/L	0.013	3	6591	8771	0
Cr	53	0.437	ug/L	0.013	2	372	770	1
Mn	55	110.977	ug/L	1.652	1	350	1643833	0
Co	59	0.138	ug/L	0.005	3	42	1633	3
> Ge	72		ug/L			385276	306193	0
Ni	60	1.045	ug/L	0.020	1	45	2524	2
Ni	62	0.893	ug/L	0.021	2	62	376	2
Cu	63	3.041	ug/L	0.041	1	180	17047	0
Cu	65	2.900	ug/L	0.090	3	100	7915	2
Zn	66	21.996	ug/L	0.255	1	348	39206	0
Zn	67	19.567	ug/L	0.062	0	70	5894	0
Zn	68	21.617	ug/L	0.066	0	9052	34283	0
As-1	75	0.397	ug/L	0.019	4	-30	617	4
As	75	0.249	ug/L	0.043	17	10544	8785	0
Se	82	0.102	ug/L	0.054	53	0	16	51
Se	78	-0.440	ug/L	0.108	24	10737	8350	0
Mo	98	0.191	ug/L	0.007	3	1921	2583	1
Y	89		ug/L			294548	259754	1
Kr	83		ug/L			77	66	8
> In	115		ug/L			417878	351989	0
Ag	107	0.004	ug/L	0.001	16	26	65	10
Cd	111	0.095	ug/L	0.015	16	162	402	11
Cd	114	0.083	ug/L	0.006	7	14	568	6
Sb	121	0.885	ug/L	0.016	1	32	8920	1
Sb	123	0.870	ug/L	0.013	1	25	6614	2
Ba	135	3.242	ug/L	0.016	0	16	7451	0
Ba	137	3.294	ug/L	0.036	1	21	12712	1
> Tb	159		ug/L			395846	376188	0
Tl	205	0.006	ug/L	0.000	3	25	184	3
Pb	208	0.190	ug/L	0.001	0	201	7572	1
Bi	209		ug/L			342389	311938	0
Th	232	0.006	ug/L	0.001	8	203	529	5
U	238	0.010	ug/L	0.000	4	20	568	4

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV6

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, May 09, 2011 19:03:05

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\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	365595	0
[ Be	9	47.589	ug/L	0.414	0	3	19879	0
C	13		mg/L			4456	3227	1
Cl	37		mg/L			2690010	2201638	0
> Sc	45		ug/L			264393	203238	0
V-1	51	51.635	ug/L	0.170	0	2140	489951	0
V	51	51.526	ug/L	0.205	0	975	498254	0
Cr	52	52.548	ug/L	0.107	0	6591	437396	0
Cr	53	52.153	ug/L	0.359	0	372	52080	0
Mn	55	52.804	ug/L	0.381	0	350	731679	0
[ Co	59	53.036	ug/L	0.630	1	42	574655	1
> Ge	72		ug/L			385276	304629	0
Ni	60	52.042	ug/L	0.326	0	45	123315	0
Ni	62	52.141	ug/L	0.883	1	62	19024	1
Cu	63	51.727	ug/L	0.371	0	180	286245	0
Cu	65	51.348	ug/L	0.492	0	100	138133	0
Zn	66	51.134	ug/L	0.482	0	348	90315	0
Zn	67	51.388	ug/L	0.275	0	70	15310	0
Zn	68	50.055	ug/L	0.217	0	9052	69564	0
As-1	75	50.567	ug/L	0.486	0	-30	81305	0
As	75	49.901	ug/L	0.434	0	10544	89195	0
Se	82	52.629	ug/L	0.355	0	0	8317	0
Se	78	49.996	ug/L	0.168	0	10737	29166	0
[ Mo	98	53.917	ug/L	0.246	0	1921	298133	0
Y	89		ug/L			294548	248208	0
Kr	83		ug/L			77	70	2
> In	115		ug/L			417878	343989	0
Ag	107	50.603	ug/L	0.481	0	26	554329	0
Cd	111	50.924	ug/L	0.523	1	162	139575	0
Cd	114	50.704	ug/L	0.261	0	14	330772	0
Sb	121	49.955	ug/L	0.361	0	32	490852	0
Sb	123	50.495	ug/L	0.140	0	25	374033	0
Ba	135	49.654	ug/L	0.232	0	16	111348	0
[ Ba	137	50.552	ug/L	0.253	0	21	190370	0
> Tb	159		ug/L			395846	364731	1
Tl	205	46.600	ug/L	0.540	1	25	1293487	0
Pb	208	47.913	ug/L	0.481	1	201	1808200	0
Bi	209		ug/L			342389	306034	0
Th	232	50.121	ug/L	0.699	1	203	2608050	0
[ U	238	50.930	ug/L	0.091	0	20	2802430	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB6

Sample Dil Factor:

Comments:

Sample Date/Time: Monday, May 09, 2011 19:10:18

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: C:\Elandata\Caldata\050911.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			356289	379512	0
[ Be	9	0.004	ug/L	0.006	140	3	5	48
C	13		mg/L			4456	3563	2
Cl	37		mg/L			2690010	2267912	0
> Sc	45		ug/L			264393	209952	0
V-1	51	0.008	ug/L	0.004	47	2140	1775	1
V	51	-0.011	ug/L	0.003	28	975	668	4
Cr	52	0.008	ug/L	0.011	134	6591	5304	1
Cr	53	-0.049	ug/L	0.009	18	372	245	3
Mn	55	0.136	ug/L	0.006	4	350	2221	3
[ Co	59	0.006	ug/L	0.002	25	42	103	16
> Ge	72		ug/L			385276	313692	0
Ni	60	0.001	ug/L	0.005	532	45	38	29
Ni	62	0.005	ug/L	0.012	219	62	52	8
Cu	63	-0.001	ug/L	0.003	280	180	141	10
Cu	65	0.000	ug/L	0.003	2690	100	82	10
Zn	66	-0.079	ug/L	0.002	2	348	140	2
Zn	67	-0.043	ug/L	0.039	89	70	44	26
Zn	68	-0.546	ug/L	0.061	11	9052	6669	1
As-1	75	0.021	ug/L	0.010	50	-30	9	190
As	75	-0.174	ug/L	0.009	5	10544	8295	0
Se	82	0.034	ug/L	0.025	74	0	6	68
Se	78	-0.720	ug/L	0.024	3	10737	8435	0
[ Mo	98	-0.254	ug/L	0.002	0	1921	125	9
Y	89		ug/L			294548	258589	1
Kr	83		ug/L			77	63	0
> In	115		ug/L			417878	356831	0
Ag	107	0.010	ug/L	0.000	3	26	132	2
Cd	111	0.016	ug/L	0.007	40	162	184	10
Cd	114	0.004	ug/L	0.001	14	14	37	10
Sb	121	0.020	ug/L	0.004	21	32	232	19
Sb	123	0.020	ug/L	0.003	13	25	176	12
Ba	135	0.001	ug/L	0.002	236	16	16	34
[ Ba	137	0.004	ug/L	0.003	59	21	35	29
> Tb	159		ug/L			395846	374453	0
Tl	205	0.004	ug/L	0.000	5	25	143	4
Pb	208	0.005	ug/L	0.001	18	201	381	8
Bi	209		ug/L			342389	319684	0
Th	232	0.039	ug/L	0.001	3	203	2272	3
[ U	238	0.006	ug/L	0.000	7	20	346	7



# ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 5.10.11 Analyst: BW 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			2828-15
		1			-4
		2			-5
		3			2829-5
		4			2828-7
		rinse sample			
		ICV			2819-4
		ICB			
		CCV1			
		CCB1			
		low check			Mo low
		ICSA			
		ICSAB			
		LR200			
		LR300			
		CCV2			
		CCB2			
		SU14 MB1	REN	2	
		MB2			
		MB2spl			✓
		MB1spl			✓
		A-L		10	✓
		A		2	
		A dup			✓



# ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 5.10.11

Analyst: BW

Page: 2 of 6

All corrections made by analyst unless otherwise noted. BW 5.10.11

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		5014 Asolh	REN	2 ✓	
2		<del>222222</del> Apost	↓	↓	
		↓ B	↓	↓	
		CCV3			
		CCB3			
		5014 F-L	REN	10 ✓	
		F	↓	2 ✓	
		Fdep	↓	↓ ✓	
		Fsolh	↓	↓ ✓	
2		<del>222222</del> Fpost	↓	↓	
		↓ C	↓	↓	
		↓ D	↓	↓	
		↓ E	↓	↓	
		↓ G	↓	↓	
		↓ H	↓	↓	
		CCV4			TI low
		CCB4			
		5057 Adip	REN	2 50 ✓	As
		↓ A	↓	↓	STL
		↓ Asolh	↓	↓ ✓	
		↓ Kdip	↓	↓	
		↓ K	↓	↓	
		↓ Ksolh	↓	↓	STL
		↓ B	↓	↓	





# ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 5.10.11

Analyst: RAW

Page: 3 of 6

All corrections made by analyst unless otherwise noted. RAW 5.10.11

Edit Label	Delete Data -	ARI Sample ID	Prep Code	Dilution	Comments
		SU57 L	REN	50	As
		SU14 X I	↓	2	Se high - rem cr
		↓ J	↓	↓	
		CCJ5			
		CCB5			
		SU57 D	REN	2	Be
		↓ D	↓	10	As
		↓ F	↓	2	Be
		↓ G	↓	↓	↓
		↓ G	↓	10	As
		↓ J	↓	2	Be
		↓ N	↓	↓	↓
		↓ N	↓	10	As
		↓ Q	↓	2	Be
		↓ Q	↓	20	As
		CCJ6			
		CCB6			As 2 <sup>76</sup> Se high
		SU58 MB1	REN	2	Be
		↓ MB2	↓	↓	↓
		↓ MB2 spk	↓	↓	↓
		↓ MB1 spk	↓	↓	↓
		↓ A	↓	↓	↓
		↓ B	↓	↓	↓
		↓ C	↓	↓	↓



# ICP/MS SAMPLE RUN LOG

PE Sciex ELAN 6000 Serial No. Z13960660

Analysis Date: 5.10.11

Analyst: BW

Page: 4 of 6

All corrections made by analyst unless otherwise noted. BW 5.11.11

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		S058 D	REN	2	Bx
		S057 P	↓	↓	↓
		↓ T	↓	↓	↓
		CCV7			
		CCB7			As2 78Se high
		S073 MBI	REN	2	
		↓ MBSpk	↓	↓	↓
		↓ Adip	↓	↓	↓
		↓ A	↓	↓	↓
		↓ AspK	↓	↓	↓
		↓ B	↓	↓	↓
		S074 A			
		↓ B			
		↓ C			
		S014 I	↓	5	Cr
		CCV8			
		CCB8			As2 78Se high
		S052 MB	REN	2	
		S069 MB	↓	↓	↓
		↓ MBSpk	↓	↓	↓
		S052 MBSpk	↓	↓	↓
		↓ L	↓	↓	↓
		↓ M	↓	↓	↓
		↓ N	↓	↓	↓

end plug

**Metals Data Review Checklist**

Method: ICP ICP-MS GFA CVA

Analysis Date: 5-10-11

	Analyst <i>blw 5.11</i>	Peer	Comment
<b>Logbooks</b>			
Analyst, Date, Method info	<input checked="" type="checkbox"/>		
Sample ID's	<input checked="" type="checkbox"/>		
Standard/QC solution ID's recorded	<input checked="" type="checkbox"/>		
Prep codes	<input checked="" type="checkbox"/>		
Dilution factors	<input checked="" type="checkbox"/>		
Crossouts/Corrections/Deletions	<input checked="" type="checkbox"/>		
<b>Calibration</b>			
Blank & Standard intensities	<input checked="" type="checkbox"/>		
Standard deviations	<input checked="" type="checkbox"/>		
Curve fit	<input checked="" type="checkbox"/>		
<b>Calibration Verification</b>			
ICV/CCV	<input checked="" type="checkbox"/>		<i>see log</i>
ICB/CCB	<input checked="" type="checkbox"/>		<i>↓</i>
<b>Samples</b>			
RSD's & SD's	<input checked="" type="checkbox"/>		
Internal Standards	<input checked="" type="checkbox"/>		
Carry-over	<input checked="" type="checkbox"/>		
<b>Method QC</b>			
CRI/CRA	<input checked="" type="checkbox"/>		<i>see log</i>
ICSA/ICSAB	<input checked="" type="checkbox"/>		
Post Spikes/Serial Dilutions	<input checked="" type="checkbox"/>		
Analytic Spikes	<input type="checkbox"/>		
<b>Matrix QC</b>			
SRM/LCS	<input checked="" type="checkbox"/>		
Matrix Spikes	<input checked="" type="checkbox"/>		
Matrix Duplicates	<input checked="" type="checkbox"/>		
Method Blanks	<input checked="" type="checkbox"/>		
<b>Data Distribution</b>			
Requested elements/isotope identified	<input checked="" type="checkbox"/>		
Correct samples identified for distribution	<input checked="" type="checkbox"/>		
Raw data match distributed data	<input checked="" type="checkbox"/>		
Data filename correct	<input checked="" type="checkbox"/>		
Necessary Analysts Notes and CAT's	<input type="checkbox"/>		

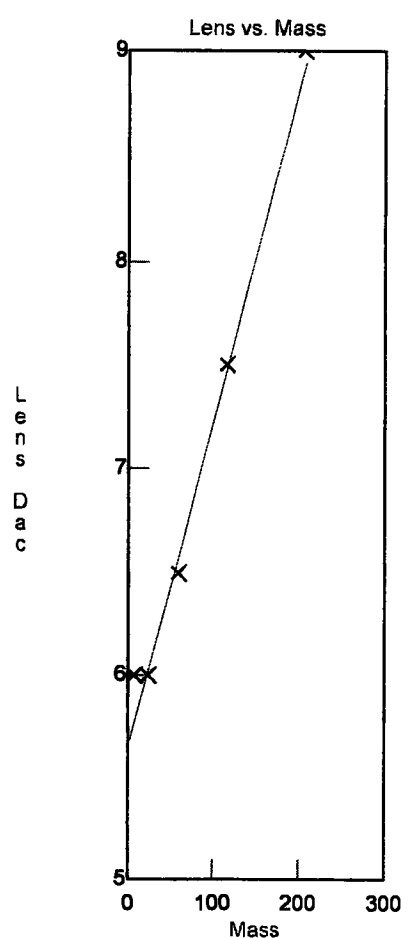
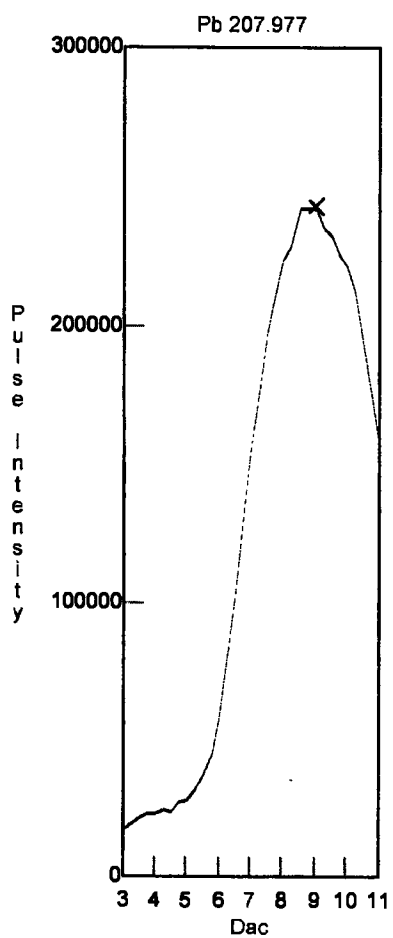
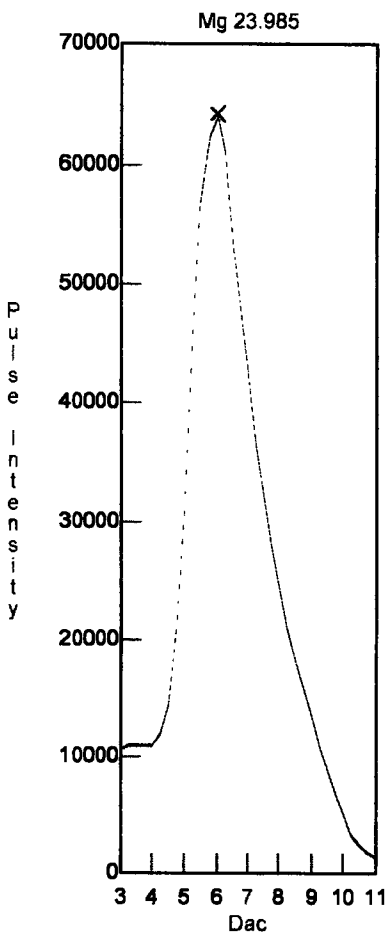
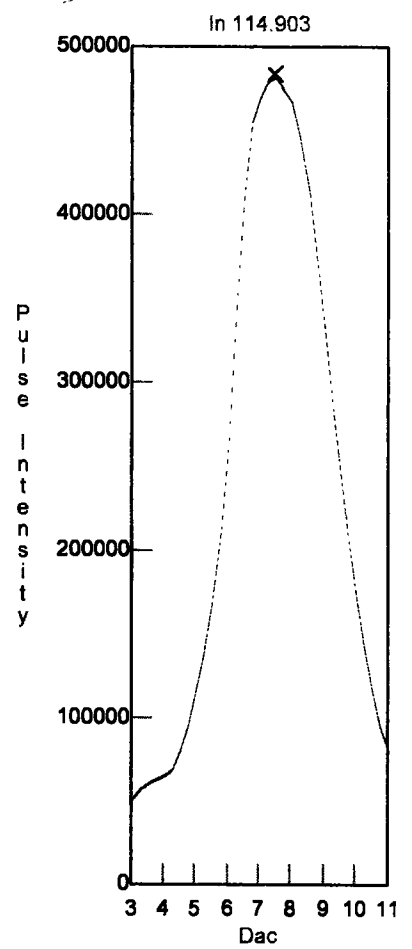
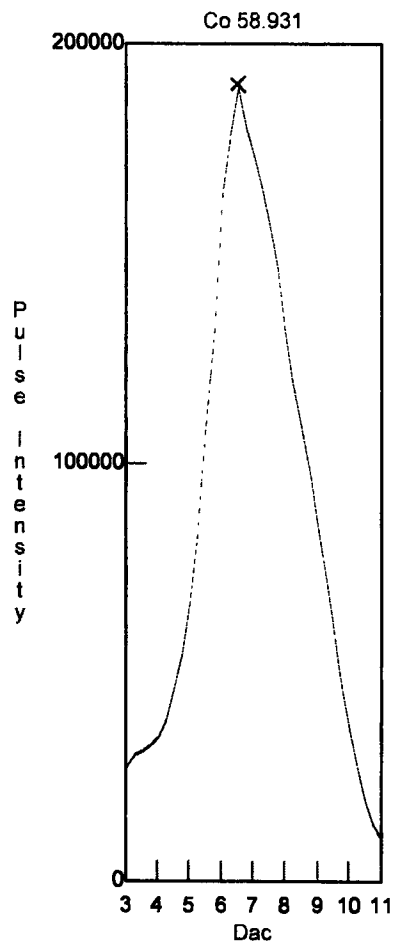
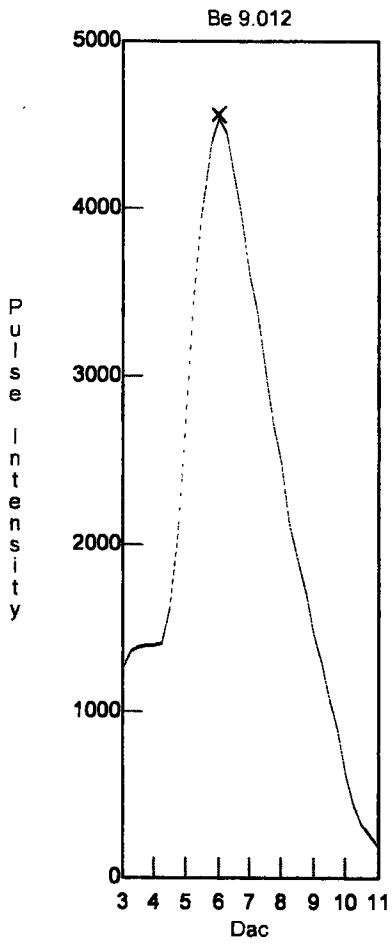
# Instrument Tuning Report

1st

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	9.028 ✓	2031	2168	0.713	
Mg	23.985	23.979 ✓	5650	2275	0.718	
Co	58.933	58.928 ✓	14150	2544	0.710	✓
In	114.904	114.928 ✓	27775	2995	0.694	
Pb	207.977	207.976 ✓	50419	3749	0.706	

5-10-11



# Daily Performance Report

Sample ID: Sample

Sample Date/Time: Tuesday, May 10, 2011 11:11:59

Sample Description:

Sample File: 1120.sam

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

Dataset File: c:\elandata\Dataset\daily performance\Sample.7532

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

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

Number of Replicates: 5

Dual Detector Mode: Pulse

*ncb  
0.916*

## Summary

Analyte	Mass	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Mg	24	57884.828	424.825	0.734
In	115	466237.621	2110.390	0.453
Pb	208	246170.303	2952.457	1.199
[> Ba	138	348648.893	1690.309	0.485
[ Ba++	69	0.011	0.000	1.206
[> Ce	140	415281.181	3569.679	0.860
[ CeO	156	0.026	0.001	2.203
Bkgd	220	18.752	2.932	15.635

## ICP-MS Quantitative Analysis - Summary Report

**Sample ID: Blank**

**Sample Dil Factor:**

**Comments:**

**Sample Date/Time: Tuesday, May 10, 2011 11:31:43**

**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				477376	1
[ Be	9		ug/L				2	49
C	13		mg/L				5140	1
Cl	37		mg/L				2489408	0
> Sc	45		ug/L				273386	0
V-1	51		ug/L				2122	6
V	51		ug/L				767	4
Cr	52		ug/L				6539	0
Cr	53		ug/L				305	10
Mn	55		ug/L				899	4
[ Co	59		ug/L				48	8
> Ge	72		ug/L				392434	0
Ni	60		ug/L				47	5
Ni	62		ug/L				85	8
Cu	63		ug/L				279	11
Cu	65		ug/L				93	14
Zn	66		ug/L				751	11
Zn	67		ug/L				145	13
Zn	68		ug/L				8019	0
As-1	75		ug/L				-39	28
As	75		ug/L				8849	0
Se	82		ug/L				-12	102
Se	78		ug/L				9032	0
[ Mo	98		ug/L				1392	17
Y	89		ug/L				310463	0
Kr	83		ug/L				81	10
> In	115		ug/L				464469	0
Ag	107		ug/L				27	30
Cd	111		ug/L				218	2
Cd	114		ug/L				68	20
Sb	121		ug/L				25	10
Sb	123		ug/L				20	44
Ba	136		ug/L				15	54
[ Ba	137		ug/L				22	11
> Tb	159		ug/L				467702	1
Tl	205		ug/L				34	23
Pb	208		ug/L				244	4
Bi	209		ug/L				375879	1
Th	232		ug/L				177	4
[ U	238		ug/L				29	19

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 1

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 11:39:30

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			477376	469704	0
[ Be	9	10.000	ug/L	0.297	2	2	4713	3
C	13		mg/L			5140	4803	0
Cl	37		mg/L			2489408	2500257	0
> Sc	45		ug/L			273386	269070	0
V-1	51	10.000	ug/L	0.162	1	2122	131867	0
V	51	10.000	ug/L	0.157	1	767	132891	0
Cr	52	10.000	ug/L	0.022	0	6539	120456	0
Cr	53	10.000	ug/L	0.021	0	305	13939	1
Mn	55	10.000	ug/L	0.118	1	899	196054	0
Co	59	10.000	ug/L	0.013	0	48	152401	0
> Ge	72		ug/L			392434	386254	0
Ni	60	10.000	ug/L	0.118	1	47	32971	0
Ni	62	10.000	ug/L	0.088	0	85	5074	0
Cu	63	10.000	ug/L	0.060	0	279	75816	0
Cu	65	10.000	ug/L	0.114	1	93	36644	0
Zn	66	10.000	ug/L	0.122	1	751	23452	1
Zn	67	10.000	ug/L	0.150	1	145	4190	1
Zn	68	10.000	ug/L	0.053	0	8019	24455	0
As-1	75	10.000	ug/L	0.036	0	-39	20553	0
As	75	10.000	ug/L	0.089	0	8849	29512	0
Se	82	10.000	ug/L	0.106	1	-12	2091	1
Se	78	10.000	ug/L	0.341	3	9032	14460	1
Mo	98	10.000	ug/L	0.048	0	1392	73610	0
Y	89		ug/L			310463	300030	0
Kr	83		ug/L			81	86	8
> In	115		ug/L			464469	452982	0
Ag	107	10.000	ug/L	0.043	0	27	143792	1
Cd	111	10.000	ug/L	0.113	1	218	36792	1
Cd	114	10.000	ug/L	0.066	0	68	86793	0
Sb	121	10.000	ug/L	0.074	0	25	128192	0
Sb	123	10.000	ug/L	0.187	1	20	97015	1
Ba	135	10.000	ug/L	0.092	0	15	29678	1
Ba	137	10.000	ug/L	0.086	0	22	50531	0
> Tb	159		ug/L			467702	458809	0
Tl	205	10.000	ug/L	0.067	0	34	314940	0
Pb	208	10.000	ug/L	0.053	0	244	438024	0
Bi	209		ug/L			375879	370148	0
Th	232	10.000	ug/L	0.090	0	177	588871	0
U	238	10.000	ug/L	0.049	0	29	633121	0



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 2

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 11:47:17

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			477376	473824	1
[ Be	9	20.028	ug/L	0.191	0	2	9572	1
C	13		mg/L			5140	4549	2
[ Cl	37		mg/L			2489408	2517039	0
> Sc	45		ug/L			273386	271450	1
[ V-1	51	20.010	ug/L	0.079	0	2122	264636	1
V	51	20.024	ug/L	0.125	0	767	268983	0
[ Cr	52	20.041	ug/L	0.245	1	6539	238882	0
Cr	53	20.081	ug/L	0.482	2	305	28383	0
[ Mn	55	20.027	ug/L	0.348	1	899	397316	0
[ Co	59	20.059	ug/L	0.278	1	48	311967	0
> Ge	72		ug/L			392434	388265	0
[ Ni	60	20.012	ug/L	0.056	0	47	66437	0
Ni	62	20.050	ug/L	0.106	0	85	10243	0
[ Cu	63	20.038	ug/L	0.203	1	279	153586	0
Cu	65	19.977	ug/L	0.145	0	93	73150	0
[ Zn	66	20.147	ug/L	0.064	0	751	48132	0
Zn	67	20.010	ug/L	0.305	1	145	8300	1
[ Zn	68	19.978	ug/L	0.179	0	8019	41047	0
[ As-1	75	20.003	ug/L	0.041	0	-39	41393	0
As	75	19.992	ug/L	0.118	0	8849	50497	0
[ Se	82	20.038	ug/L	0.354	1	-12	4258	1
Se	78	19.988	ug/L	0.062	0	9032	20100	0
[ Mo	98	20.040	ug/L	0.156	0	1392	148064	0
[ Y	89		ug/L			310463	304905	0
[ Kr	83		ug/L			81	84	4
> In	115		ug/L			464469	454348	0
[ Ag	107	20.052	ug/L	0.077	0	27	292195	0
[ Cd	111	20.030	ug/L	0.147	0	218	74136	0
[ Cd	114	20.050	ug/L	0.306	1	68	176217	1
[ Sb	121	20.064	ug/L	0.153	0	25	261286	0
[ Sb	123	20.034	ug/L	0.088	0	20	196279	0
[ Ba	135	20.003	ug/L	0.235	1	15	59566	1
[ Ba	137	20.000	ug/L	0.112	0	22	101354	0
> Tb	159		ug/L			467702	457222	0
[ Tl	205	20.038	ug/L	0.120	0	34	633600	0
[ Pb	208	20.056	ug/L	0.284	1	244	885183	1
[ Bi	209		ug/L			375879	368826	0
[ Th	232	20.080	ug/L	0.205	1	177	1197332	0
[ U	238	20.070	ug/L	0.164	0	29	1284220	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 3

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 11:55:05

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:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	471024	0
[ Be	9	49.939	ug/L	0.194	0	2	23581	0
C	13		mg/L			5140	4819	0
Cl	37		mg/L			2489408	2525050	0
> Sc	45		ug/L			273386	269991	0
V-1	51	49.977	ug/L	0.553	1	2122	652727	0
V	51	50.007	ug/L	0.502	1	767	667454	0
Cr	52	49.843	ug/L	0.938	1	6539	572479	1
Cr	53	49.945	ug/L	0.725	1	305	69399	0
Mn	55	49.882	ug/L	0.194	0	899	971613	0
Co	59	49.792	ug/L	0.528	1	48	754566	0
> Ge	72		ug/L			392434	388446	0
Ni	60	49.777	ug/L	0.422	0	47	161652	0
Ni	62	49.648	ug/L	1.205	2	85	24395	1
Cu	63	49.772	ug/L	0.506	1	279	372787	0
Cu	65	49.745	ug/L	0.246	0	93	177582	0
Zn	66	49.869	ug/L	0.497	0	751	116582	0
Zn	67	49.675	ug/L	0.703	1	145	19766	1
Zn	68	49.870	ug/L	0.492	0	8019	89568	0
As-1	75	49.959	ug/L	0.307	0	-39	103064	0
As	75	49.927	ug/L	0.316	0	8849	112294	0
Se	82	49.748	ug/L	0.113	0	-12	10334	0
Se	78	49.628	ug/L	0.244	0	9032	35679	0
Mo	98	49.870	ug/L	0.227	0	1392	361917	0
Y	89		ug/L			310463	298112	1
Kr	83		ug/L			81	92	5
> In	115		ug/L			464469	451326	1
Ag	107	49.767	ug/L	0.321	0	27	703866	0
Cd	111	49.860	ug/L	0.147	0	218	180489	1
Cd	114	49.909	ug/L	0.790	1	68	431656	0
Sb	121	49.950	ug/L	0.746	1	25	642820	0
Sb	123	49.979	ug/L	0.568	1	20	485336	0
Ba	135	49.938	ug/L	0.878	1	15	146763	0
[ Ba	137	49.943	ug/L	0.630	1	22	249943	0
> Tb	159		ug/L			467702	452131	0
Tl	205	49.913	ug/L	0.228	0	34	1547187	1
Pb	208	49.855	ug/L	0.238	0	244	2144368	0
Bi	209		ug/L			375879	362474	0
Th	232	50.511	ug/L	0.643	1	177	3138443	0
[ U	238	50.443	ug/L	0.540	1	29	3339521	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: Standard 4

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 12:02:54

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			477376	473413	0
[ Be	9	99.807	ug/L	0.954	0	2	47063	1
C	13		mg/L			5140	5801	1
Cl	37		mg/L			2489408	2533022	0
> Sc	45		ug/L			273386	277332	0
V-1	51	99.788	ug/L	1.123	1	2122	1327266	1
V	51	99.801	ug/L	1.357	1	767	1358540	1
Cr	52	99.898	ug/L	0.533	0	6539	1168077	1
Cr	53	99.928	ug/L	0.504	0	305	141993	1
Mn	55	99.664	ug/L	0.540	0	899	1971095	0
[ Co	59	99.537	ug/L	0.222	0	48	1525878	0
> Ge	72		ug/L			392434	392759	0
Ni	60	99.705	ug/L	0.733	0	47	324170	1
Ni	62	100.050	ug/L	0.692	0	85	49705	0
Cu	63	99.427	ug/L	0.744	0	279	738611	1
Cu	65	99.599	ug/L	1.115	1	93	354667	1
Zn	66	99.538	ug/L	1.298	1	751	230994	1
Zn	67	99.946	ug/L	0.656	0	145	39992	0
Zn	68	99.444	ug/L	0.765	0	8019	169616	0
As-1	75	99.698	ug/L	0.322	0	-39	205925	0
As	75	99.750	ug/L	0.270	0	8849	216286	0
Se	82	99.855	ug/L	0.899	0	-12	20884	0
Se	78	100.057	ug/L	0.458	0	9032	63651	0
[ Mo	98	100.058	ug/L	1.125	1	1392	734196	0
Y	89		ug/L			310463	298984	0
Kr	83		ug/L			81	112	7
> In	115		ug/L			464469	458220	1
Ag	107	99.669	ug/L	1.070	1	27	1415495	0
Cd	111	99.856	ug/L	1.801	1	218	364993	1
Cd	114	99.791	ug/L	0.679	0	68	870203	0
Sb	121	99.609	ug/L	1.361	1	25	1284746	0
Sb	123	99.637	ug/L	0.656	0	20	970611	0
Ba	135	100.008	ug/L	1.294	1	15	298492	0
[ Ba	137	99.913	ug/L	1.681	1	22	506169	0
> Tb	159		ug/L			467702	455116	0
Tl	205	101.331	ug/L	0.652	0	34	3308476	0
Pb	208	100.671	ug/L	0.833	0	244	4458169	0
Bi	209		ug/L			375879	362216	0
Th	232	100.616	ug/L	1.245	1	177	6424926	1
[ U	238	100.668	ug/L	1.240	1	29	6861374	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: Rinse Sample

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 12:10:27

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			477376	488900	1
[ Be	9	-0.001	ug/L	0.003	269	2	2	50
C	13		mg/L			5140	5186	1
Cl	37		mg/L			2489408	2611796	0
> Sc	45		ug/L			273386	282822	1
V-1	51	0.010	ug/L	0.002	22	2122	2336	1
V	51	-0.007	ug/L	0.001	14	767	700	1
Cr	52	0.015	ug/L	0.005	35	6539	6943	1
Cr	53	-0.038	ug/L	0.009	23	305	261	5
Mn	55	-0.009	ug/L	0.001	17	899	758	2
Co	59	0.008	ug/L	0.000	5	48	174	3
> Ge	72		ug/L			392434	404963	0
Ni	60	0.004	ug/L	0.004	105	47	61	20
Ni	62	0.006	ug/L	0.016	258	85	91	7
Cu	63	-0.005	ug/L	0.002	50	279	250	6
Cu	65	-0.001	ug/L	0.000	37	93	93	2
Zn	66	-0.220	ug/L	0.012	5	751	250	12
Zn	67	-0.170	ug/L	0.027	15	145	79	13
Zn	68	-0.316	ug/L	0.032	10	8019	7746	0
As-1	75	0.007	ug/L	0.014	215	-39	-26	114
As	75	0.017	ug/L	0.003	17	8849	9169	1
Se	82	0.036	ug/L	0.023	63	-12	-5	96
Se	78	0.066	ug/L	0.055	83	9032	9358	0
Mo	98	-0.160	ug/L	0.002	1	1392	231	7
Y	89		ug/L			310463	313563	1
Kr	83		ug/L			81	81	5
> In	115		ug/L			464469	476585	1
Ag	107	0.013	ug/L	0.001	10	27	219	8
Cd	111	0.005	ug/L	0.004	81	218	241	4
Cd	114	-0.000	ug/L	0.000	227	68	69	3
Sb	121	0.041	ug/L	0.006	14	25	577	12
Sb	123	0.042	ug/L	0.004	8	20	447	7
Ba	135	0.004	ug/L	0.004	99	15	28	45
[ Ba	137	0.004	ug/L	0.001	24	22	42	10
> Tb	159		ug/L			467702	470899	0
Tl	205	0.005	ug/L	0.001	9	34	215	8
Pb	208	0.004	ug/L	0.001	18	244	427	7
Bi	209		ug/L			375879	385350	0
Th	232	0.045	ug/L	0.003	7	177	3161	6
[ U	238	0.006	ug/L	0.001	11	29	466	10

## Quantitative Analysis - Calibration Report

Sample Date/Time: Tuesday, May 10, 2011 12:02:54

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\051011.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	0.0010	10	20	50	100	
C	13							
Cl	37							
Sc	45							
V-1	51	1.0000	0.0479	10	20	50	100	
V	51	1.0000	0.0491	10	20	50	100	
Cr	52	1.0000	0.0419	10	20	50	100	
Cr	53	1.0000	0.0051	10	20	50	100	
Mn	55	1.0000	0.0713	10	20	50	100	
Co	59	1.0000	0.0553	10	20	50	100	
Ge	72							
Ni	60	1.0000	0.0083	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	1.0000	0.0091	10	20	50	100	
Zn	66	1.0000	0.0059	10	20	50	100	
Zn	67	1.0000	0.0010	10	20	50	100	
Zn	68	0.9999	0.0041	10	20	50	100	
As-1	75	1.0000	0.0053	10	20	50	100	
As	75	1.0000	0.0053	10	20	50	100	
Se	82	1.0000	0.0005	10	20	50	100	
Se	78	1.0000	0.0014	10	20	50	100	
Mo	98	1.0000	0.0186	10	20	50	100	
Y	89							
Kr	83							
In	115							
Ag	107	1.0000	0.0310	10	20	50	100	
Cd	111	1.0000	0.0080	10	20	50	100	
Cd	114	1.0000	0.0190	10	20	50	100	
Sb	121	1.0000	0.0281	10	20	50	100	
Sb	123	1.0000	0.0213	10	20	50	100	
Ba	135	1.0000	0.0065	10	20	50	100	
Ba	137	1.0000	0.0111	10	20	50	100	
Tb	159							
Tl	205	0.9997	0.0717	10	20	50	100	
Pb	208	0.9999	0.0973	10	20	50	100	
Bi	209							
Th	232	0.9999	0.1403	10	20	50	100	
U	238	0.9999	0.1498	10	20	50	100	

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICV

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 12:17:58

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	481857	1
[ Be	9	50.137	ug/L	0.270	0	2	24065	1
C	13		mg/L			5140	6702	1
Cl	37		mg/L			2489408	2578039	0
> Sc	45		ug/L			273386	280071	1
V-1	51	50.000	ug/L	0.849	1	2122	672591	0
V	51	49.779	ug/L	0.797	1	767	684592	0
Cr	52	49.759	ug/L	0.998	2	6539	590799	0
Cr	53	49.097	ug/L	0.961	1	305	70598	0
Mn	55	50.053	ug/L	0.470	0	899	1000140	1
[ Co	59	50.942	ug/L	0.468	0	48	788600	0
> Ge	72		ug/L			392434	395285	0
Ni	60	50.940	ug/L	0.212	0	47	166700	0
Ni	62	50.639	ug/L	0.022	0	85	25362	0
Cu	63	50.695	ug/L	0.115	0	279	379151	0
Cu	65	50.924	ug/L	0.280	0	93	182542	0
Zn	66	50.143	ug/L	0.580	1	751	117482	0
Zn	67	50.341	ug/L	0.706	1	145	20344	0
Zn	68	50.042	ug/L	0.536	1	8019	89914	0
As-1	75	50.118	ug/L	0.466	0	-39	104159	0
As	75	50.102	ug/L	0.458	0	8849	113764	0
Se	82	79.410	ug/L	0.934	1	-12	16712	0
Se	78	78.585	ug/L	0.944	1	9032	52263	0
[ Mo	98	49.629	ug/L	1.019	2	1392	367185	1
Y	89		ug/L			310463	302402	0
Kr	83		ug/L			81	97	6
> In	115		ug/L			464469	462181	1
Ag	107	49.591	ug/L	0.514	1	27	710399	0
Cd	111	49.843	ug/L	0.536	1	218	183874	0
Cd	114	50.131	ug/L	0.357	0	68	440965	0
Sb	121	49.822	ug/L	0.247	0	25	648206	0
Sb	123	50.200	ug/L	0.741	1	20	493225	0
Ba	135	49.943	ug/L	0.400	0	15	150365	0
[ Ba	137	50.258	ug/L	0.593	1	22	256830	0
> Tb	159		ug/L			467702	460455	1
Tl	205	47.673	ug/L	0.566	1	34	1574712	0
Pb	208	48.848	ug/L	0.490	1	244	2188612	0
Bi	209		ug/L			375879	371831	0
Th	232	50.698	ug/L	0.715	1	177	3275210	0
[ U	238	49.270	ug/L	0.618	1	29	3397451	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICB

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 12:25:12

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			477376	499237	0
[ Be	9	-0.003	ug/L	0.003	104	2	1	86
C	13		mg/L			5140	5228	1
Cl	37		mg/L			2489408	2596974	0
[> Sc	45		ug/L			273386	284486	0
V-1	51	0.005	ug/L	0.009	174	2122	2281	4
V	51	-0.010	ug/L	0.002	20	767	661	5
Cr	52	0.006	ug/L	0.017	282	6539	6876	2
Cr	53	-0.041	ug/L	0.020	48	305	258	12
Mn	55	-0.011	ug/L	0.002	15	899	704	4
[ Co	59	0.006	ug/L	0.001	14	48	147	9
[> Ge	72		ug/L			392434	401855	0
NI	60	0.003	ug/L	0.001	23	47	60	4
NI	62	0.002	ug/L	0.012	740	85	88	7
Cu	63	-0.007	ug/L	0.001	19	279	233	4
Cu	65	-0.001	ug/L	0.004	418	93	92	13
Zn	66	-0.223	ug/L	0.008	3	751	241	8
Zn	67	-0.176	ug/L	0.009	5	145	76	4
Zn	68	-0.376	ug/L	0.147	39	8019	7586	2
As-1	75	-0.015	ug/L	0.005	34	-39	-72	15
As	75	0.026	ug/L	0.020	79	8849	9116	0
Se	82	0.023	ug/L	0.028	122	-12	-7	75
Se	78	0.158	ug/L	0.072	45	9032	9337	0
[ Mo	98	-0.168	ug/L	0.003	1	1392	164	12
Y	89		ug/L			310463	310318	0
Kr	83		ug/L			81	79	1
[> In	115		ug/L			464469	473706	1
Ag	107	0.008	ug/L	0.001	7	27	146	4
Cd	111	0.003	ug/L	0.005	180	218	233	9
Cd	114	-0.003	ug/L	0.000	14	68	44	8
Sb	121	0.016	ug/L	0.002	11	25	245	11
Sb	123	0.016	ug/L	0.002	11	20	185	11
Ba	135	0.001	ug/L	0.002	153	15	19	32
[ Ba	137	0.003	ug/L	0.001	48	22	37	19
[> Tb	159		ug/L			467702	480216	1
Tl	205	0.003	ug/L	0.001	18	34	145	13
Pb	208	0.003	ug/L	0.000	11	244	409	4
Bi	209		ug/L			375879	386879	0
Th	232	0.025	ug/L	0.002	8	177	1851	7
[ U	238	0.004	ug/L	0.000	4	29	350	4

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV1

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 12:32:24

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	473838	1
[ Be	9	49.891	ug/L	0.336	0	2	23547	0
C	13		mg/L			5140	4814	2
Cl	37		mg/L			2489408	2566655	0
> Sc	45		ug/L			273386	270328	0
V-1	51	50.640	ug/L	0.769	1	2122	657553	0
V	51	50.377	ug/L	0.620	1	767	668797	0
Cr	52	50.889	ug/L	0.376	0	6539	583154	0
Cr	53	50.065	ug/L	0.480	0	305	69492	1
Mn	55	50.675	ug/L	0.373	0	899	977352	0
Co	59	50.805	ug/L	0.667	1	48	759144	0
> Ge	72		ug/L			392434	388396	0
Ni	60	50.322	ug/L	0.321	0	47	161808	0
Ni	62	49.875	ug/L	0.505	1	85	24545	0
Cu	63	50.549	ug/L	0.608	1	279	371457	0
Cu	65	51.043	ug/L	0.400	0	93	179777	0
Zn	66	50.889	ug/L	0.335	0	751	117145	0
Zn	67	50.212	ug/L	0.054	0	145	19940	0
Zn	68	50.869	ug/L	0.266	0	8019	89679	0
As-1	75	50.174	ug/L	0.431	0	-39	102461	0
As	75	50.225	ug/L	0.457	0	8849	112037	0
Se	82	49.811	ug/L	0.303	0	-12	10296	0
Se	78	49.983	ug/L	0.498	0	9032	35916	0
Mo	98	49.883	ug/L	0.425	0	1392	362659	0
Y	89		ug/L			310463	297947	0
Kr	83		ug/L			81	88	0
> In	115		ug/L			464469	452227	0
Ag	107	50.808	ug/L	0.574	1	27	712168	0
Cd	111	50.490	ug/L	0.792	1	218	182247	0
Cd	114	50.709	ug/L	0.210	0	68	436474	0
Sb	121	50.515	ug/L	0.492	0	25	643060	0
Sb	123	50.706	ug/L	0.407	0	20	487499	0
Ba	135	49.986	ug/L	0.392	0	15	147254	0
Ba	137	50.419	ug/L	0.680	1	22	252106	0
> Tb	159		ug/L			467702	454656	1
Tl	205	47.470	ug/L	0.857	1	34	1548126	0
Pb	208	48.873	ug/L	0.431	0	244	2162141	0
Bi	209		ug/L			375879	364119	0
Th	232	50.353	ug/L	0.679	1	177	3211903	0
U	238	50.265	ug/L	0.782	1	29	3422130	0



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB1

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 12:39:37

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	496516	0
[ Be	9	0.001	ug/L	0.007	467	2	3	88
C	13		mg/L			5140	5045	2
Cl	37		mg/L			2489408	2602376	0
> Sc	45		ug/L			273386	277079	1
V-1	51	0.011	ug/L	0.009	78	2122	2300	3
V	51	-0.010	ug/L	0.001	9	767	638	2
Cr	52	0.018	ug/L	0.022	121	6539	6832	2
Cr	53	-0.049	ug/L	0.010	19	305	240	6
Mn	55	-0.012	ug/L	0.002	18	899	678	5
Co	59	0.005	ug/L	0.001	13	48	128	7
> Ge	72		ug/L			392434	398892	0
Ni	60	0.003	ug/L	0.004	122	47	58	20
Ni	62	0.004	ug/L	0.013	344	85	89	7
Cu	63	-0.003	ug/L	0.005	134	279	257	13
Cu	65	-0.002	ug/L	0.001	59	93	86	6
Zn	66	-0.247	ug/L	0.010	3	751	184	12
Zn	67	-0.199	ug/L	0.007	3	145	66	3
Zn	68	-0.338	ug/L	0.086	25	8019	7593	2
As-1	75	-0.008	ug/L	0.005	55	-39	-57	17
As	75	0.043	ug/L	0.031	73	8849	9085	0
Se	82	0.023	ug/L	0.018	78	-12	-7	49
Se	78	0.182	ug/L	0.104	57	9032	9282	0
Mo	98	-0.168	ug/L	0.001	0	1392	163	4
Y	89		ug/L			310463	308733	0
Kr	83		ug/L			81	75	7
> In	115		ug/L			464469	471761	0
Ag	107	0.011	ug/L	0.000	3	27	190	2
Cd	111	0.007	ug/L	0.002	29	218	248	2
Cd	114	-0.003	ug/L	0.001	18	68	43	11
Sb	121	0.016	ug/L	0.000	1	25	243	1
Sb	123	0.016	ug/L	0.002	10	20	181	9
Ba	135	0.004	ug/L	0.002	47	15	26	20
Ba	137	0.001	ug/L	0.000	36	22	29	8
> Tb	159		ug/L			467702	471453	0
Tl	205	0.003	ug/L	0.000	6	34	135	5
Pb	208	0.004	ug/L	0.001	18	244	409	8
Bi	209		ug/L			375879	385043	0
Th	232	0.041	ug/L	0.003	6	177	2872	6
U	238	0.004	ug/L	0.001	15	29	329	14

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: LOW CHECK

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 12:46:47

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	472857	0
[ Be	9	0.215	ug/L	0.043	19	2	104	20
C	13		mg/L			5140	6489	1
Cl	37		mg/L			2489408	2576283	0
> Sc	45		ug/L			273386	271091	0
V-1	51	0.230	ug/L	0.018	7	2122	5090	4
V	51	0.201	ug/L	0.006	3	767	3431	2
Cr	52	0.601	ug/L	0.013	2	6539	13317	1
Cr	53	0.484	ug/L	0.023	4	305	974	3
Mn	55	0.545	ug/L	0.009	1	899	11428	1
Co	59	0.220	ug/L	0.001	0	48	3339	1
> Ge	72		ug/L			392434	385174	0
Ni	60	0.548	ug/L	0.002	0	47	1793	0
Ni	62	0.523	ug/L	0.083	15	85	338	11
Cu	63	0.561	ug/L	0.010	1	279	4356	1
Cu	65	0.578	ug/L	0.001	0	93	2110	0
Zn	66	4.182	ug/L	0.038	0	751	10224	0
Zn	67	3.607	ug/L	0.158	4	145	1552	3
Zn	68	3.982	ug/L	0.053	1	8019	14217	0
As-1	75	0.183	ug/L	0.010	5	-39	332	5
As	75	0.382	ug/L	0.011	2	8849	9464	0
Se	82	0.571	ug/L	0.061	10	-12	104	11
Se	78	1.287	ug/L	0.078	6	9032	9554	0
Mo	98	0.037	ug/L	0.011	29	1392	1629	4
Y	89		ug/L			310463	303933	0
Kr	83		ug/L			81	74	8
> In	115		ug/L			464469	458340	0
Ag	107	0.203	ug/L	0.002	0	27	2910	0
Cd	111	0.129	ug/L	0.008	6	218	685	4
Cd	114	0.119	ug/L	0.002	1	68	1106	1
Sb	121	0.216	ug/L	0.002	1	25	2812	1
Sb	123	0.216	ug/L	0.001	0	20	2129	0
Ba	135	0.531	ug/L	0.015	2	15	1598	2
Ba	137	0.534	ug/L	0.008	1	22	2730	1
> Tb	159		ug/L			467702	464783	0
Tl	205	0.203	ug/L	0.002	0	34	6799	1
Pb	208	0.111	ug/L	0.004	3	244	5257	3
Bi	209		ug/L			375879	370759	0
Th	232	0.207	ug/L	0.003	1	177	13690	1
U	238	0.195	ug/L	0.005	2	29	13581	2

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSA

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 12:53:58

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	460121	1
[ Be	9	0.002	ug/L	0.000	4	2	3	
C	13		mg/L			5140	20685	2
Cl	37		mg/L			2489408	3814422	2
> Sc	45		ug/L			273386	254588	1
V-1	51	0.003	ug/L	0.017	532	2122	2014	9
V	51	0.682	ug/L	0.014	2	767	9233	2
Cr	52	0.615	ug/L	0.018	2	6539	12654	0
Cr	53	2.654	ug/L	0.014	0	305	3738	1
Mn	55	0.032	ug/L	0.004	11	899	1415	6
Co	59	0.043	ug/L	0.001	2	48	650	1
> Ge	72		ug/L			392434	359962	2
Ni	60	0.668	ug/L	0.023	3	47	2032	3
Ni	62	4.541	ug/L	0.167	3	85	2143	5
Cu	63	0.546	ug/L	0.001	0	279	3969	2
Cu	65	0.695	ug/L	0.004	0	93	2352	1
Zn	66	1.156	ug/L	0.010	0	751	3141	2
Zn	67	1.693	ug/L	0.162	9	145	751	6
Zn	68	0.160	ug/L	0.017	10	8019	7594	1
As-1	75	0.023	ug/L	0.017	74	-39	7	436
As	75	0.125	ug/L	0.029	22	8849	8355	1
Se	82	0.037	ug/L	0.041	110	-12	-4	177
Se	78	0.499	ug/L	0.144	28	9032	8533	1
Mo	98	429.423	ug/L	8.321	1	1392	2882974	0
Y	89		ug/L			310463	278861	0
Kr	83		ug/L			81	89	8
> In	115		ug/L			464469	417630	1
Ag	107	0.034	ug/L	0.000	1	27	459	2
Cd	111	0.064	ug/L	0.012	18	218	408	11
Cd	114	0.764	ug/L	0.009	1	68	6130	2
Sb	121	0.055	ug/L	0.002	3	25	671	2
Sb	123	0.057	ug/L	0.003	4	20	522	2
Ba	135	0.044	ug/L	0.007	15	15	134	15
Ba	137	0.039	ug/L	0.003	8	22	200	7
> Tb	159		ug/L			467702	439464	0
Tl	205	0.003	ug/L	0.000	7	34	132	4
Pb	208	0.043	ug/L	0.002	4	244	2054	4
Bi	209		ug/L			375879	333674	1
Th	232	0.065	ug/L	0.004	6	177	4158	6
U	238	0.002	ug/L	0.000	13	29	129	10

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: ICSAB

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 13:01:29

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	439311	0
[ Be	9	-0.002	ug/L	0.002	70	2	1	43
C	13		mg/L			5140	18419	0
Cl	37		mg/L			2489408	3549644	1
> Sc	45		ug/L			273386	243223	2
V-1	51	-0.474	ug/L	0.097	20	2122	-3615	30
V	51	0.711	ug/L	0.027	3	767	9160	2
Cr	52	20.471	ug/L	0.131	0	6539	214555	2
Cr	53	22.568	ug/L	0.281	1	305	28330	1
Mn	55	20.056	ug/L	0.268	1	899	348452	0
Co	59	20.211	ug/L	0.297	1	48	271705	0
> Ge	72		ug/L			392434	348244	0
Ni	60	20.398	ug/L	0.127	0	47	58834	0
Ni	62	24.035	ug/L	0.097	0	85	10645	0
Cu	63	20.046	ug/L	0.191	0	279	132226	0
Cu	65	20.006	ug/L	0.116	0	93	63230	1
Zn	66	20.498	ug/L	0.042	0	751	42705	0
Zn	67	18.133	ug/L	0.186	1	145	6538	0
Zn	68	18.963	ug/L	0.075	0	8019	34438	0
As-1	75	19.827	ug/L	0.081	0	-39	36282	0
As	75	19.736	ug/L	0.091	0	8849	44242	0
Se	82	0.054	ug/L	0.021	40	-12	-1	331
Se	78	0.293	ug/L	0.155	52	9032	8157	0
[ Mo	98	427.133	ug/L	4.278	1	1392	2775109	1
Y	89		ug/L			310463	273074	1
Kr	83		ug/L			81	89	2
> In	115		ug/L			464469	403138	1
Ag	107	18.943	ug/L	0.136	0	27	236727	1
Cd	111	19.288	ug/L	0.350	1	218	62191	2
Cd	114	20.049	ug/L	0.264	1	68	153862	1
Sb	121	0.048	ug/L	0.002	3	25	564	4
Sb	123	0.047	ug/L	0.002	3	20	422	3
Ba	135	0.058	ug/L	0.004	6	15	164	7
[ Ba	137	0.057	ug/L	0.006	10	22	272	9
> Tb	159		ug/L			467702	431533	0
Tl	205	0.001	ug/L	0.000	41	34	68	22
Pb	208	0.040	ug/L	0.001	3	244	1926	3
Bi	209		ug/L			375879	323014	0
Th	232	0.031	ug/L	0.001	2	177	2013	2
[ U	238	0.000	ug/L	0.000	54	29	46	22

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: LR200

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 13:08:59

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	457908	2
[ Be	9	196.420	ug/L	2.662	1	2	89568	1
C	13		mg/L			5140	4955	2
Cl	37		mg/L			2489408	2313748	0
> Sc	45		ug/L			273386	255199	1
V-1	51	212.983	ug/L	3.295	1	2122	2604622	2
V	51	209.609	ug/L	3.653	1	767	2624871	2
Cr	52	208.337	ug/L	1.439	0	6539	2234895	0
Cr	53	198.323	ug/L	2.803	1	305	259018	1
Mn	55	205.234	ug/L	2.640	1	899	3734191	1
Co	59	207.021	ug/L	1.310	0	48	2920128	0
> Ge	72		ug/L			392434	364418	0
Ni	60	195.695	ug/L	0.193	0	47	590287	0
Ni	62	193.792	ug/L	0.857	0	85	89255	0
Cu	63	193.623	ug/L	1.456	0	279	1334328	1
Cu	65	195.558	ug/L	0.851	0	93	646035	0
Zn	66	193.567	ug/L	0.152	0	751	416126	0
Zn	67	193.358	ug/L	1.342	0	145	71662	0
Zn	68	195.110	ug/L	1.250	0	8019	301625	1
As-1	75	199.193	ug/L	0.254	0	-39	381782	0
As	75	198.775	ug/L	0.191	0	8849	391739	0
Se	82	197.804	ug/L	1.283	0	-12	38398	1
Se	78	196.161	ug/L	0.923	0	9032	107729	0
Mo	98	202.535	ug/L	0.630	0	1392	1377656	0
Y	89		ug/L			310463	283888	1
Kr	83		ug/L			81	111	8
> In	115		ug/L			464469	425727	1
Ag	107	204.704	ug/L	0.858	0	27	2701193	1
Cd	111	196.996	ug/L	1.534	0	218	668878	2
Cd	114	197.289	ug/L	0.093	0	68	1598433	1
Sb	121	212.783	ug/L	1.840	0	25	2549819	1
Sb	123	201.627	ug/L	2.251	1	20	1824672	0
Ba	135	198.884	ug/L	2.732	1	15	551442	0
[ Ba	137	199.161	ug/L	3.411	1	22	937350	1
> Tb	159		ug/L			467702	440149	0
Tl	205	196.006	ug/L	2.247	1	34	6189201	1
Pb	208	195.032	ug/L	1.821	0	244	8352777	0
Bi	209		ug/L			375879	331675	0
Th	232	201.688	ug/L	3.723	1	177	12455385	1
U	238	200.912	ug/L	1.783	0	29	13243859	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: LR300

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 13:16:27

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	462389	0
[ Be	9	290.885	ug/L	5.981	2	2	133948	1
C	13		mg/L			5140	5337	2
Cl	37		mg/L			2489408	2421170	0
> Sc	45		ug/L			273386	264648	0
V-1	51	314.837	ug/L	2.642	0	2122	3991659	0
V	51	310.074	ug/L	2.343	0	767	4026274	0
Cr	52	307.602	ug/L	3.299	1	6539	3418929	0
Cr	53	293.515	ug/L	3.589	1	305	397408	0
Mn	55	307.313	ug/L	3.534	1	899	5798018	0
[ Co	59	304.166	ug/L	2.299	0	48	4449377	0
> Ge	72		ug/L			392434	378573	0
Ni	60	285.226	ug/L	1.470	0	47	893730	0
Ni	62	282.470	ug/L	3.514	1	85	135107	0
Cu	63	284.568	ug/L	9.952	3	279	2037352	4
Cu	65	282.733	ug/L	0.996	0	93	970240	0
Zn	66	281.966	ug/L	1.398	0	751	629387	1
Zn	67	282.219	ug/L	2.562	0	145	108600	1
Zn	68	282.874	ug/L	0.680	0	8019	450805	0
As-1	75	293.531	ug/L	0.667	0	-39	584457	0
As	75	292.796	ug/L	0.524	0	8849	595405	0
Se	82	287.129	ug/L	2.427	0	-12	57908	0
Se	78	284.375	ug/L	1.865	0	9032	158321	0
[ Mo	98	313.430	ug/L	3.107	0	1392	2214025	1
Y	89		ug/L			310463	284042	0
Kr	83		ug/L			81	134	3
> In	115		ug/L			464469	430357	0
Ag	107	309.550	ug/L	3.871	1	27	4129088	1
Cd	111	293.861	ug/L	1.732	0	218	1008518	0
Cd	114	311.313	ug/L	0.897	0	68	2549631	0
Sb	121	320.092	ug/L	1.673	0	25	3877816	0
Sb	123	323.387	ug/L	2.421	0	20	2958797	0
Ba	135	298.478	ug/L	0.997	0	15	836723	0
[ Ba	137	299.755	ug/L	2.198	0	22	1426328	0
> Tb	159		ug/L			467702	429249	0
Tl	205	305.105	ug/L	2.701	0	34	9395540	0
Pb	208	311.329	ug/L	1.762	0	244	13003322	0
Bi	209		ug/L			375879	308014	0
Th	232	315.170	ug/L	0.505	0	177	18981732	0
[ U	238	311.490	ug/L	0.641	0	29	20024741	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: **CCV2**

Sample Dil Factor:

Comments:

Sample Date/Time: **Tuesday, May 10, 2011 13:23:58**

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	474139	0
[ Be	9	50.207	ug/L	0.126	0	2	23712	0
C	13		mg/L			5140	4603	2
Cl	37		mg/L			2489408	2483798	0
> Sc	45		ug/L			273386	263382	0
V-1	51	50.597	ug/L	0.402	0	2122	640141	0
V	51	50.530	ug/L	0.513	1	767	653601	0
Cr	52	50.646	ug/L	0.194	0	6539	565500	0
Cr	53	50.436	ug/L	0.573	1	305	68205	1
Mn	55	50.764	ug/L	0.360	0	899	953912	0
[ Co	59	50.515	ug/L	0.755	1	48	735420	0
> Ge	72		ug/L			392434	376104	0
Ni	60	50.568	ug/L	0.672	1	47	157457	1
Ni	62	50.069	ug/L	0.457	0	85	23861	0
Cu	63	50.887	ug/L	0.142	0	279	362118	0
Cu	65	50.939	ug/L	0.136	0	93	173740	0
Zn	66	51.140	ug/L	0.426	0	751	113995	0
Zn	67	50.617	ug/L	0.874	1	145	19464	1
Zn	68	50.955	ug/L	0.370	0	8019	86976	0
As-1	75	50.498	ug/L	0.494	0	-39	99861	0
As	75	50.393	ug/L	0.446	0	8849	108829	0
Se	82	50.615	ug/L	0.504	0	-12	10131	0
Se	78	50.209	ug/L	0.421	0	9032	34899	0
[ Mo	98	50.197	ug/L	0.345	0	1392	353394	0
Y	89		ug/L			310463	290487	0
Kr	83		ug/L			81	91	12
> In	115		ug/L			464469	439934	1
Ag	107	50.938	ug/L	0.389	0	27	694577	0
Cd	111	50.771	ug/L	0.508	1	218	178288	1
Cd	114	50.539	ug/L	0.652	1	68	423158	1
Sb	121	50.845	ug/L	0.305	0	25	629663	0
Sb	123	50.972	ug/L	0.553	1	20	476725	0
Ba	135	50.590	ug/L	0.757	1	15	144973	0
[ Ba	137	50.429	ug/L	0.217	0	22	245312	0
> Tb	159		ug/L			467702	445809	0
Tl	205	47.493	ug/L	0.420	0	34	1518908	0
Pb	208	48.854	ug/L	0.620	1	244	2119269	0
Bi	209		ug/L			375879	358758	0
Th	232	51.029	ug/L	0.600	1	177	3191822	0
[ U	238	51.572	ug/L	0.571	1	29	3443087	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB2

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 13:31:15

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	489862	1
[ Be	9	0.006	ug/L	0.003	51	2	5	24
C	13		mg/L			5140	4732	2
Cl	37		mg/L			2489408	2515942	0
> Sc	45		ug/L			273386	269454	1
V-1	51	0.003	ug/L	0.004	113	2122	2135	3
V	51	0.017	ug/L	0.001	4	767	980	2
Cr	52	0.010	ug/L	0.003	27	6539	6561	1
Cr	53	0.052	ug/L	0.009	17	305	372	3
Mn	55	-0.004	ug/L	0.002	37	899	804	5
[ Co	59	0.016	ug/L	0.002	12	48	284	11
> Ge	72		ug/L			392434	385385	0
Ni	60	0.010	ug/L	0.001	9	47	79	3
Ni	62	0.036	ug/L	0.018	50	85	102	9
Cu	63	-0.003	ug/L	0.003	122	279	254	9
Cu	65	0.004	ug/L	0.001	36	93	105	4
Zn	66	-0.232	ug/L	0.006	2	751	212	6
Zn	67	-0.177	ug/L	0.028	15	145	73	15
Zn	68	-0.485	ug/L	0.064	13	8019	7102	0
As-1	75	0.009	ug/L	0.005	59	-39	-20	51
As	75	-0.009	ug/L	0.040	461	8849	8672	0
Se	82	-0.015	ug/L	0.019	125	-12	-15	24
Se	78	-0.061	ug/L	0.139	226	9032	8837	0
[ Mo	98	-0.156	ug/L	0.005	3	1392	245	15
Y	89		ug/L			310463	303676	0
Kr	83		ug/L			81	83	3
> In	115		ug/L			464469	457874	0
[ Ag	107	0.016	ug/L	0.001	6	27	258	6
Cd	111	0.009	ug/L	0.006	68	218	247	8
Cd	114	0.001	ug/L	0.002	180	68	76	21
Sb	121	0.038	ug/L	0.006	15	25	512	14
Sb	123	0.037	ug/L	0.004	10	20	380	9
Ba	135	0.006	ug/L	0.002	28	15	32	15
[ Ba	137	0.009	ug/L	0.001	14	22	67	10
> Tb	159		ug/L			467702	464174	0
Tl	205	0.009	ug/L	0.001	16	34	320	15
Pb	208	0.008	ug/L	0.001	8	244	618	5
Bi	209		ug/L			375879	375067	0
Th	232	0.053	ug/L	0.002	4	177	3649	4
[ U	238	0.009	ug/L	0.001	10	29	629	10



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 MB1 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 13:38:27

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	490153	0
[ Be	9	0.002	ug/L	0.005	221	2	4	62
C	13		mg/L			5140	6151	1
Cl	37		mg/L			2489408	2510505	0
> Sc	45		ug/L			273386	267466	0
V-1	51	0.026	ug/L	0.002	5	2122	2415	0
V	51	0.018	ug/L	0.001	3	767	992	0
Cr	52	0.055	ug/L	0.003	5	6539	7015	0
Cr	53	0.028	ug/L	0.007	23	305	337	2
Mn	55	0.046	ug/L	0.003	7	899	1757	3
Co	59	0.010	ug/L	0.001	9	48	202	7
> Ge	72		ug/L			392434	379114	0
Ni	60	0.043	ug/L	0.004	8	47	182	6
Ni	62	0.079	ug/L	0.029	36	85	120	11
Cu	63	0.087	ug/L	0.005	6	279	895	4
Cu	65	0.088	ug/L	0.007	7	93	392	5
Zn	66	0.395	ug/L	0.008	2	751	1607	0
Zn	67	0.414	ug/L	0.108	25	145	299	13
Zn	68	0.211	ug/L	0.102	48	8019	8079	2
As-1	75	0.021	ug/L	0.007	34	-39	4	322
As	75	0.064	ug/L	0.005	8	8849	8678	0
Se	82	0.043	ug/L	0.051	119	-12	-3	291
Se	78	0.232	ug/L	0.036	15	9032	8848	0
[ Mo	98	-0.133	ug/L	0.001	0	1392	402	1
Y	89		ug/L			310463	300075	0
Kr	83		ug/L			81	84	4
> In	115		ug/L			464469	453701	0
Ag	107	0.010	ug/L	0.001	6	27	165	6
Cd	111	0.006	ug/L	0.004	65	218	233	6
Cd	114	-0.002	ug/L	0.001	51	68	53	12
Sb	121	0.020	ug/L	0.003	17	25	277	15
Sb	123	0.021	ug/L	0.001	5	20	218	4
Ba	135	0.022	ug/L	0.002	9	15	79	7
[ Ba	137	0.022	ug/L	0.001	6	22	133	5
> Tb	159		ug/L			467702	466249	0
Ti	205	0.004	ug/L	0.000	5	34	182	3
Pb	208	0.017	ug/L	0.002	9	244	1009	6
Bi	209		ug/L			375879	371534	0
Th	232	0.041	ug/L	0.003	8	177	2868	8
[ U	238	0.004	ug/L	0.000	9	29	300	7

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 MB2 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 13:44:59

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	485706	0
[ Be	9	-0.004	ug/L	0.003	68	2	0	173
C	13		mg/L			5140	6087	2
Cl	37		mg/L			2489408	2527124	0
> Sc	45		ug/L			273386	267602	1
V-1	51	0.012	ug/L	0.003	26	2122	2233	3
V	51	0.011	ug/L	0.003	28	767	889	3
Cr	52	0.040	ug/L	0.001	2	6539	6848	1
Cr	53	0.033	ug/L	0.019	56	305	344	6
Mn	55	0.005	ug/L	0.005	100	899	971	8
Co	59	0.008	ug/L	0.002	23	48	165	15
> Ge	72		ug/L			392434	377923	0
Ni	60	0.024	ug/L	0.006	24	47	122	15
Ni	62	0.041	ug/L	0.014	33	85	102	5
Cu	63	0.073	ug/L	0.002	3	279	791	3
Cu	65	0.079	ug/L	0.001	0	93	359	1
Zn	66	0.279	ug/L	0.023	8	751	1343	3
Zn	67	0.280	ug/L	0.033	11	145	247	4
Zn	68	0.153	ug/L	0.065	42	8019	7961	0
As-1	75	0.006	ug/L	0.005	78	-39	-25	36
As	75	0.060	ug/L	0.073	121	8849	8642	1
Se	82	0.093	ug/L	0.012	13	-12	6	37
Se	78	0.284	ug/L	0.283	99	9032	8846	1
Mo	98	-0.165	ug/L	0.003	2	1392	178	12
Y	89		ug/L			310463	302481	0
Kr	83		ug/L			81	75	0
> In	115		ug/L			464469	451519	0
Ag	107	0.006	ug/L	0.001	9	27	112	7
Cd	111	0.008	ug/L	0.002	18	218	240	2
Cd	114	-0.004	ug/L	0.000	7	68	31	8
Sb	121	0.014	ug/L	0.001	4	25	208	3
Sb	123	0.014	ug/L	0.002	13	20	153	12
Ba	136	0.013	ug/L	0.002	11	15	52	8
Ba	137	0.015	ug/L	0.002	13	22	95	10
> Tb	159		ug/L			467702	460951	0
Tl	205	0.003	ug/L	0.000	9	34	117	6
Pb	208	0.008	ug/L	0.001	8	244	587	4
Bi	209		ug/L			375879	372159	0
Th	232	0.023	ug/L	0.003	10	177	1654	10
U	238	0.002	ug/L	0.000	18	29	157	14

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 MB2SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 13:51:32

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	490545	1
[ Be	9	24.580	ug/L	0.419	1	2	12009	0
C	13		mg/L			5140	7067	2
Cl	37		mg/L			2489408	2525551	0
> Sc	45		ug/L			273386	269049	0
V-1	51	25.726	ug/L	0.234	0	2122	333500	0
V	51	25.623	ug/L	0.272	1	767	338924	0
Cr	52	25.705	ug/L	0.234	0	6539	296364	1
Cr	53	25.390	ug/L	0.275	1	305	35223	1
Mn	55	26.210	ug/L	0.036	0	899	503554	0
[ Co	59	26.410	ug/L	0.096	0	48	392801	0
> Ge	72		ug/L			392434	382012	0
Ni	60	26.895	ug/L	0.342	1	47	85080	0
Ni	62	26.446	ug/L	0.458	1	85	12840	1
Cu	63	27.471	ug/L	0.071	0	279	198679	0
Cu	65	27.514	ug/L	0.361	1	93	95359	1
Zn	66	82.657	ug/L	0.328	0	751	186690	0
Zn	67	74.280	ug/L	0.253	0	145	28945	0
Zn	68	81.295	ug/L	0.881	1	8019	136293	0
As-1	75	24.926	ug/L	0.278	1	-39	50045	0
As	75	25.121	ug/L	0.249	0	8849	59422	0
Se	82	79.175	ug/L	0.781	0	-12	16104	1
Se	78	78.489	ug/L	0.371	0	9032	50460	0
[ Mo	98	-0.162	ug/L	0.002	1	1392	202	6
Y	89		ug/L			310463	305157	0
Kr	83		ug/L			81	84	5
> In	115		ug/L			464469	457782	0
[ Ag	107	26.326	ug/L	0.329	1	27	373548	0
Cd	111	25.631	ug/L	0.245	0	218	93762	0
Cd	114	25.384	ug/L	0.184	0	68	221196	0
Sb	121	0.013	ug/L	0.001	4	25	191	2
Sb	123	0.013	ug/L	0.000	2	20	141	1
Ba	135	25.435	ug/L	0.310	1	15	75855	0
[ Ba	137	25.771	ug/L	0.397	1	22	130450	0
> Tb	159		ug/L			467702	466579	1
Tl	205	24.134	ug/L	0.319	1	34	807793	0
Pb	208	25.120	ug/L	0.220	0	244	1140608	0
Bi	209		ug/L			375879	377192	0
Th	232	23.888	ug/L	0.322	1	177	1563878	0
[ U	238	23.897	ug/L	0.170	0	29	1669828	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 MB1SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 13:58:06

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	493718	0
[ Be	9	25.257	ug/L	0.098	0	2	12422	0
C	13		mg/L			5140	7534	1
Cl	37		mg/L			2489408	2535542	0
> Sc	45		ug/L			273386	272492	1
V-1	51	25.733	ug/L	0.182	0	2122	337866	0
V	51	25.767	ug/L	0.208	0	767	345188	0
Cr	52	25.971	ug/L	0.058	0	6539	303200	1
Cr	53	26.057	ug/L	0.203	0	305	36603	0
Mn	55	28.077	ug/L	0.155	0	899	546241	0
[ Co	59	26.570	ug/L	0.261	0	48	400217	0
> Ge	72		ug/L			392434	385318	0
Ni	60	27.068	ug/L	0.250	0	47	86372	1
Ni	62	26.831	ug/L	0.305	1	85	13138	1
Cu	63	27.885	ug/L	0.274	0	279	203427	1
Cu	65	27.492	ug/L	0.285	1	93	96106	1
Zn	66	83.817	ug/L	0.690	0	751	190946	1
Zn	67	76.000	ug/L	1.276	1	145	29868	1
Zn	68	83.235	ug/L	0.529	0	8019	140567	0
As-1	75	25.375	ug/L	0.323	1	-39	51388	0
As	75	25.378	ug/L	0.337	1	8849	60460	0
Se	82	80.991	ug/L	0.220	0	-12	16616	0
Se	78	79.561	ug/L	0.136	0	9032	51470	0
[ Mo	98	-0.172	ug/L	0.001	0	1392	132	7
Y	89		ug/L			310463	309680	0
Kr	83		ug/L			81	90	6
> In	115		ug/L			464469	460022	1
Ag	107	26.639	ug/L	0.265	0	27	379846	1
Cd	111	25.751	ug/L	0.493	1	218	94654	0
Cd	114	25.681	ug/L	0.455	1	68	224863	1
Sb	121	0.011	ug/L	0.001	5	25	165	3
Sb	123	0.010	ug/L	0.001	12	20	114	10
Ba	135	26.012	ug/L	0.204	0	15	77957	0
[ Ba	137	26.032	ug/L	0.265	1	22	132423	0
> Tb	159		ug/L			467702	469912	0
Tl	205	24.483	ug/L	0.274	1	34	825392	1
Pb	208	25.276	ug/L	0.218	0	244	1155911	0
Bi	209		ug/L			375879	379027	0
Th	232	24.166	ug/L	0.171	0	177	1593442	0
[ U	238	24.077	ug/L	0.054	0	29	1694476	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 A-L REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Tuesday, May 10, 2011 14:04:40

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	478691	0
[ Be	9	0.008	ug/L	0.012	151	2	6	84
C	13		mg/L			5140	5198	3
Cl	37		mg/L			2489408	2454689	1
> Sc	45		ug/L			273386	271036	1
V-1	51	2.579	ug/L	0.005	0	2122	35576	1
V	51	2.519	ug/L	0.011	0	767	34255	1
Cr	52	0.156	ug/L	0.015	9	6539	8259	1
Cr	53	0.150	ug/L	0.023	15	305	510	6
Mn	55	45.380	ug/L	0.380	0	899	877589	1
[ Co	59	0.266	ug/L	0.004	1	48	4025	0
> Ge	72		ug/L			392434	371199	0
Ni	60	0.470	ug/L	0.012	2	47	1490	2
Ni	62	0.520	ug/L	0.056	10	85	324	7
Cu	63	0.760	ug/L	0.014	1	279	5598	2
Cu	65	0.730	ug/L	0.027	3	93	2543	3
Zn	66	0.522	ug/L	0.020	3	751	1852	3
Zn	67	0.753	ug/L	0.061	8	145	420	4
Zn	68	0.473	ug/L	0.035	7	8019	8312	1
As-1	75	0.433	ug/L	0.004	1	-39	808	0
As	75	0.441	ug/L	0.006	1	8849	9237	0
Se	82	0.050	ug/L	0.064	127	-12	-2	619
Se	78	0.097	ug/L	0.012	12	9032	8594	0
[ Mo	98	1.112	ug/L	0.017	1	1392	9013	1
Y	89		ug/L			310463	297380	0
Kr	83		ug/L			81	78	13
> In	115		ug/L			464469	441650	0
Ag	107	0.010	ug/L	0.001	8	27	160	7
Cd	111	0.015	ug/L	0.005	30	218	261	5
Cd	114	0.004	ug/L	0.002	36	68	102	13
Sb	121	0.051	ug/L	0.002	4	25	664	4
Sb	123	0.052	ug/L	0.002	4	20	508	3
Ba	135	2.889	ug/L	0.056	1	15	8325	1
[ Ba	137	2.912	ug/L	0.025	0	22	14239	1
> Tb	159		ug/L			467702	458873	0
Tl	205	0.005	ug/L	0.001	25	34	201	21
Pb	208	0.108	ug/L	0.002	1	244	5080	1
Bi	209		ug/L			375879	359962	1
Th	232	0.071	ug/L	0.003	4	177	4733	4
[ U	238	0.086	ug/L	0.001	1	29	5967	1

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 14:11:14

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	469072	0
[ Be	9	0.046	ug/L	0.004	9	2	24	7
C	13		mg/L			5140	6757	1
Cl	37		mg/L			2489408	2362233	1
> Sc	45		ug/L			273386	314217	1
V-1	51	11.027	ug/L	0.115	1	2122	168347	1
V	51	10.796	ug/L	0.112	1	767	167294	1
Cr	52	0.535	ug/L	0.011	2	6539	14569	1
Cr	53	0.597	ug/L	0.007	1	305	1309	1
Mn	55	198.035	ug/L	1.138	0	899	4436580	1
Co	59	1.067	ug/L	0.017	1	48	18583	1
> Ge	72		ug/L			392434	360557	0
Ni	60	2.333	ug/L	0.021	0	47	7005	1
Ni	62	2.384	ug/L	0.085	3	85	1164	3
Cu	63	3.601	ug/L	0.075	2	279	24802	2
Cu	65	3.492	ug/L	0.037	1	93	11498	0
Zn	66	2.664	ug/L	0.039	1	751	6348	1
Zn	67	3.748	ug/L	0.177	4	145	1505	4
Zn	68	3.040	ug/L	0.090	2	8019	11903	1
As-1	75	2.145	ug/L	0.031	1	-39	4031	1
As	75	2.090	ug/L	0.052	2	8849	12120	1
Se	82	0.354	ug/L	0.026	7	-12	56	9
Se	78	0.186	ug/L	0.193	103	9032	8392	1
Mo	98	6.402	ug/L	0.055	0	1392	44323	1
Y	89		ug/L			310463	309749	1
Kr	83		ug/L			81	74	3
> In	115		ug/L			464469	428076	0
Ag	107	0.017	ug/L	0.001	4	27	250	4
Cd	111	0.066	ug/L	0.006	9	218	425	4
Cd	114	0.027	ug/L	0.002	7	68	285	5
Sb	121	0.231	ug/L	0.005	2	25	2802	2
Sb	123	0.236	ug/L	0.004	1	20	2165	2
Ba	135	14.188	ug/L	0.087	0	15	39574	0
Ba	137	14.347	ug/L	0.210	1	22	67917	0
> Tb	159		ug/L			467702	450300	0
Tl	205	0.008	ug/L	0.001	9	34	300	7
Pb	208	0.499	ug/L	0.003	0	244	22103	0
Bi	209		ug/L			375879	343400	0
Th	232	0.191	ug/L	0.005	2	177	12258	1
U	238	0.415	ug/L	0.001	0	29	27994	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 ADUP REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 14:17:49

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	465389	0
[ Be	9	0.044	ug/L	0.009	20	2	23	17
C	13		mg/L			5140	6491	0
Cl	37		mg/L			2489408	2288067	0
> Sc	45		ug/L			273386	303515	1
V-1	51	10.640	ug/L	0.153	1	2122	156976	0
V	51	10.414	ug/L	0.153	1	767	155886	0
Cr	52	0.518	ug/L	0.016	3	6539	13852	0
Cr	53	0.566	ug/L	0.023	4	305	1216	1
Mn	55	194.055	ug/L	0.880	0	899	4199185	0
Co	59	1.042	ug/L	0.024	2	48	17526	1
> Ge	72		ug/L			392434	358128	0
Ni	60	2.167	ug/L	0.037	1	47	6466	1
Ni	62	2.243	ug/L	0.064	2	85	1092	2
Cu	63	3.281	ug/L	0.016	0	279	22470	0
Cu	65	3.210	ug/L	0.060	1	93	10503	1
Zn	66	2.544	ug/L	0.048	1	751	6052	1
Zn	67	3.622	ug/L	0.047	1	145	1448	1
Zn	68	2.803	ug/L	0.074	2	8019	11471	0
As-1	75	2.027	ug/L	0.021	1	-39	3782	1
As	75	1.979	ug/L	0.058	2	8849	11828	0
Se	82	0.319	ug/L	0.020	6	-12	49	7
Se	78	0.167	ug/L	0.161	96	9032	8325	0
Mo	98	6.021	ug/L	0.063	1	1392	41480	1
Y	89		ug/L			310463	306555	0
Kr	83		ug/L			81	71	6
> In	115		ug/L			464469	419898	0
Ag	107	0.013	ug/L	0.000	2	27	193	0
Cd	111	0.043	ug/L	0.011	24	218	339	11
Cd	114	0.022	ug/L	0.001	3	68	236	3
Sb	121	0.217	ug/L	0.008	3	25	2591	2
Sb	123	0.216	ug/L	0.003	1	20	1942	0
Ba	135	13.249	ug/L	0.147	1	15	36249	0
Ba	137	13.376	ug/L	0.114	0	22	62117	0
> Tb	159		ug/L			467702	450414	1
Tl	205	0.006	ug/L	0.000	3	34	224	3
Pb	208	0.457	ug/L	0.002	0	244	20270	0
Bi	209		ug/L			375879	339520	0
Th	232	0.135	ug/L	0.002	1	177	8721	0
U	238	0.389	ug/L	0.009	2	29	26242	1

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 ASPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 14:24:24

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. intens.	Intens. RSD
> Li	6		ug/L			477376	471763	0
[ Be	9	25.632	ug/L	0.199	0	2	12046	1
C	13		mg/L			5140	6175	2
Cl	37		mg/L			2489408	2268358	0
> Sc	45		ug/L			273386	306329	1
V-1	51	32.942	ug/L	0.520	1	2122	485473	0
V	51	32.673	ug/L	0.496	1	767	491762	0
Cr	52	22.093	ug/L	0.211	0	6539	291022	1
Cr	53	22.065	ug/L	0.134	0	305	34896	1
Mn	55	224.174	ug/L	3.889	1	899	4894958	0
[ Co	59	23.106	ug/L	0.439	1	48	391198	0
> Ge	72		ug/L			392434	354652	1
Ni	60	29.202	ug/L	0.304	1	47	85753	0
Ni	62	28.858	ug/L	0.527	1	85	13000	1
Cu	63	30.397	ug/L	0.241	0	279	204061	0
Cu	65	30.313	ug/L	0.379	1	93	97520	0
Zn	66	84.177	ug/L	0.872	1	751	176484	0
Zn	67	77.033	ug/L	1.581	2	145	27861	1
Zn	68	83.229	ug/L	0.163	0	8019	129369	0
As-1	75	28.930	ug/L	0.104	0	-39	53932	1
As	75	28.508	ug/L	0.057	0	8849	61526	0
Se	82	84.372	ug/L	0.229	0	-12	15933	1
Se	78	81.295	ug/L	0.478	0	9032	48228	0
[ Mo	98	6.421	ug/L	0.064	0	1392	43722	0
Y	89		ug/L			310463	305772	0
Kr	83		ug/L			81	76	9
> In	115		ug/L			464469	421354	0
Ag	107	25.790	ug/L	0.119	0	27	336844	0
Cd	111	26.112	ug/L	0.204	0	218	87921	1
Cd	114	26.222	ug/L	0.130	0	68	210321	0
Sb	121	0.229	ug/L	0.001	0	25	2740	1
Sb	123	0.237	ug/L	0.008	3	20	2138	4
Ba	135	40.176	ug/L	0.331	0	15	110281	1
[ Ba	137	40.443	ug/L	0.370	0	22	188436	1
> Tb	159		ug/L			467702	453737	0
Tl	205	23.630	ug/L	0.072	0	34	769239	0
Pb	208	24.881	ug/L	0.009	0	244	1098726	0
Bi	209		ug/L			375879	342478	0
Th	232	24.078	ug/L	0.080	0	177	1533039	0
[ U	238	24.685	ug/L	0.169	0	29	1677493	1



## ICP-MS Quantitative Analysis - Summary Report

**Sample ID:** ~~SU14-APOSTREN~~ 222222  
**Sample Dil Factor:** 2 *5.10*  
**Comments:**  
**Sample Date/Time:** Tuesday, May 10, 2011 14:31:00  
**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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	455168	1
[ Be	9	24.840	ug/L	0.416	1	2	11262	1
C	13		mg/L			5140	6125	1
Cl	37		mg/L			2489408	2203399	0
> Sc	45		ug/L			273386	303243	0
V-1	51	32.417	ug/L	0.522	1	2122	473015	0
V	51	32.071	ug/L	0.534	1	767	477901	1
Cr	52	21.357	ug/L	0.122	0	6539	278750	0
Cr	53	21.108	ug/L	0.188	0	305	33061	0
Mn	55	220.234	ug/L	1.278	0	899	4761388	0
[ Co	59	22.211	ug/L	0.171	0	48	372335	0
> Ge	72		ug/L			392434	343982	0
Ni	60	28.476	ug/L	0.115	0	47	81113	0
NI	62	28.572	ug/L	0.539	1	85	12484	1
Cu	63	29.708	ug/L	0.276	0	279	193446	0
Cu	65	29.632	ug/L	0.270	0	93	92465	0
Zn	66	81.556	ug/L	0.677	0	751	165874	0
Zn	67	75.765	ug/L	0.301	0	145	26582	0
Zn	68	81.832	ug/L	0.346	0	8019	123492	0
As-1	75	28.035	ug/L	0.360	1	-39	50687	0
As	75	27.661	ug/L	0.237	0	8849	58131	0
Se	82	81.712	ug/L	1.054	1	-12	14965	0
Se	78	78.881	ug/L	0.829	1	9032	45623	0
[ Mo	98	6.402	ug/L	0.097	1	1392	42281	0
Y	89		ug/L			310463	301633	0
Kr	83		ug/L			81	77	7
> In	115		ug/L			464469	409481	0
Ag	107	24.691	ug/L	0.355	1	27	313379	0
Cd	111	25.275	ug/L	0.248	0	218	82708	0
Cd	114	25.103	ug/L	0.390	1	68	195659	0
Sb	121	0.227	ug/L	0.003	1	25	2637	0
Sb	123	0.231	ug/L	0.001	0	20	2032	0
Ba	135	39.410	ug/L	0.384	0	15	105125	0
[ Ba	137	39.743	ug/L	0.394	0	22	179950	0
> Tb	159		ug/L			467702	448686	0
Tl	205	22.683	ug/L	0.232	1	34	730162	0
Pb	208	23.843	ug/L	0.281	1	244	1041153	0
Bi	209		ug/L			375879	331655	0
Th	232	23.168	ug/L	0.180	0	177	1458630	0
[ U	238	23.365	ug/L	0.200	0	29	1570155	1

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 14:37:36

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	464615	1
[ Be	9	0.041	ug/L	0.015	36	2	21	31
C	13		mg/L			5140	5917	1
Cl	37		mg/L			2489408	2157126	0
> Sc	45		ug/L			273386	303362	1
V-1	51	5.518	ug/L	0.073	1	2122	82511	2
V	51	5.411	ug/L	0.071	1	767	81386	2
Cr	52	0.659	ug/L	0.018	2	6539	15643	2
Cr	53	0.689	ug/L	0.022	3	305	1408	3
Mn	55	389.161	ug/L	5.002	1	899	8416530	1
[ Co	59	2.205	ug/L	0.011	0	48	37026	0
> Ge	72		ug/L			392434	341983	0
Ni	60	2.634	ug/L	0.040	1	47	7498	1
Ni	62	2.568	ug/L	0.075	2	85	1183	3
Cu	63	3.090	ug/L	0.018	0	279	20220	0
Cu	65	2.987	ug/L	0.028	0	93	9340	0
Zn	66	8.484	ug/L	0.039	0	751	17742	0
Zn	67	8.593	ug/L	0.309	3	145	3109	3
Zn	68	9.055	ug/L	0.179	1	8019	19800	1
As-1	75	4.462	ug/L	0.010	0	-39	7992	0
As	75	4.357	ug/L	0.053	1	8849	15600	0
Se	82	0.280	ug/L	0.012	4	-12	39	5
Se	78	-0.005	ug/L	0.153	3051	9032	7868	0
[ Mo	98	2.772	ug/L	0.046	1	1392	18893	1
Y	89		ug/L			310463	304050	1
Kr	83		ug/L			81	73	11
> In	115		ug/L			464469	407767	0
Ag	107	0.020	ug/L	0.001	6	27	273	6
Cd	111	0.065	ug/L	0.005	7	218	402	4
Cd	114	0.032	ug/L	0.002	5	68	306	4
Sb	121	0.131	ug/L	0.003	2	25	1522	2
Sb	123	0.132	ug/L	0.005	3	20	1163	3
Ba	135	31.550	ug/L	0.482	1	15	83808	0
[ Ba	137	31.830	ug/L	0.107	0	22	143527	0
> Tb	159		ug/L			467702	447692	0
Tl	205	0.016	ug/L	0.001	6	34	558	5
Pb	208	0.512	ug/L	0.009	1	244	22543	1
Bi	209		ug/L			375879	332681	0
Th	232	0.161	ug/L	0.005	2	177	10284	2
[ U	238	0.357	ug/L	0.004	1	29	23991	1

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV3

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 14:44:11

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	453556	1
[ Be	9	49.378	ug/L	0.533	1	2	22307	0
C	13		mg/L			5140	3678	2
Cl	37		mg/L			2489408	2213707	0
> Sc	45		ug/L			273386	238095	0
V-1	51	51.134	ug/L	1.117	2	2122	584765	1
V	51	50.876	ug/L	1.105	2	767	594856	1
Cr	52	50.976	ug/L	0.548	1	6539	514480	0
Cr	53	50.196	ug/L	0.550	1	305	61363	0
Mn	55	50.137	ug/L	0.071	0	899	851698	0
[ Co	59	51.311	ug/L	0.418	0	48	675309	0
> Ge	72		ug/L			392434	341665	0
NI	60	51.415	ug/L	0.370	0	47	145432	0
NI	62	50.066	ug/L	0.355	0	85	21675	0
Cu	63	51.067	ug/L	0.098	0	279	330120	0
Cu	65	51.102	ug/L	0.077	0	93	158335	0
Zn	66	51.331	ug/L	0.530	1	751	103942	1
Zn	67	49.788	ug/L	1.302	2	145	17394	2
Zn	68	50.731	ug/L	0.764	1	8019	78695	1
As-1	75	50.836	ug/L	0.540	1	-39	91325	1
As	75	50.521	ug/L	0.413	0	8849	99095	0
Se	82	52.728	ug/L	0.623	1	-12	9588	1
Se	78	51.521	ug/L	0.182	0	9032	32326	0
[ Mo	98	51.728	ug/L	0.308	0	1392	330786	0
Y	89		ug/L			310463	276803	1
Kr	83		ug/L			81	90	4
> In	115		ug/L			464469	404700	0
Ag	107	50.213	ug/L	0.385	0	27	629871	0
Cd	111	50.439	ug/L	0.594	1	218	162931	0
Cd	114	50.780	ug/L	0.206	0	68	391136	0
Sb	121	50.824	ug/L	0.165	0	25	579015	0
Sb	123	50.879	ug/L	0.638	1	20	437750	0
Ba	135	49.797	ug/L	0.588	1	15	131277	0
[ Ba	137	50.569	ug/L	0.296	0	22	226290	0
> Tb	159		ug/L			467702	436621	1
Tl	205	45.551	ug/L	0.762	1	34	1426677	0
Pb	208	47.199	ug/L	0.861	1	244	2005140	0
Bi	209		ug/L			375879	335220	0
Th	232	48.886	ug/L	1.008	2	177	2994480	0
[ U	238	49.437	ug/L	1.092	2	29	3232194	1

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB3

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 14:51:24

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\Caldat\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	474584	0
[ Be	9	0.005	ug/L	0.006	104	2	5	48
C	13		mg/L			5140	3839	1
Cl	37		mg/L			2489408	2280472	0
> Sc	45		ug/L			273386	247657	0
V-1	51	0.007	ug/L	0.006	76	2122	2011	3
V	51	-0.005	ug/L	0.003	55	767	638	5
Cr	52	-0.005	ug/L	0.012	248	6539	5876	1
Cr	53	-0.041	ug/L	0.018	43	305	225	10
Mn	55	0.001	ug/L	0.002	185	899	835	5
[ Co	59	0.008	ug/L	0.001	9	48	156	7
> Ge	72		ug/L			392434	352210	0
Ni	60	0.003	ug/L	0.004	109	47	52	20
Ni	62	0.000	ug/L	0.005	4063	85	77	2
Cu	63	-0.006	ug/L	0.002	29	279	210	4
Cu	65	-0.000	ug/L	0.002	1633	93	83	9
Zn	66	-0.234	ug/L	0.004	1	751	189	3
Zn	67	-0.195	ug/L	0.025	12	145	60	15
Zn	68	-0.604	ug/L	0.026	4	8019	6317	0
As-1	75	-0.011	ug/L	0.016	142	-39	-55	52
As	75	-0.072	ug/L	0.064	87	8849	7807	0
Se	82	0.019	ug/L	0.032	165	-12	-7	78
Se	78	-0.218	ug/L	0.244	111	9032	7999	0
[ Mo	98	-0.165	ug/L	0.003	1	1392	163	12
Y	89		ug/L			310463	288277	0
Kr	83		ug/L			81	72	9
> In	115		ug/L			464469	421227	0
Ag	107	0.013	ug/L	0.001	7	27	190	7
Cd	111	0.002	ug/L	0.003	207	218	202	5
Cd	114	-0.002	ug/L	0.001	50	68	49	12
Sb	121	0.016	ug/L	0.003	19	25	210	16
Sb	123	0.017	ug/L	0.003	20	20	169	17
Ba	135	0.004	ug/L	0.001	24	15	25	12
[ Ba	137	0.006	ug/L	0.001	9	22	47	5
> Tb	159		ug/L			467702	452916	0
Tl	205	0.004	ug/L	0.001	23	34	175	18
Pb	208	0.005	ug/L	0.000	5	244	435	2
Bi	209		ug/L			375879	350250	0
Th	232	0.048	ug/L	0.003	6	177	3224	6
[ U	238	0.006	ug/L	0.001	19	29	401	18

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 F-L REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Tuesday, May 10, 2011 14:58:40

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	472357	0
[ Be	9	0.002	ug/L	0.003	145	2	3	33
C	13		mg/L			5140	4584	0
Cl	37		mg/L			2489408	2243084	0
> Sc	45		ug/L			273386	253007	1
V-1	51	2.215	ug/L	0.007	0	2122	28797	1
V	51	2.161	ug/L	0.011	0	767	27526	1
Cr	52	U 0.018	ug/L	0.010	52	6539	6246	2
Cr	53	0.013	ug/L	0.003	27	305	299	2
Mn	55	46.206	ug/L	0.859	1	899	834006	0
[ Co	59	0.246	ug/L	0.004	1	48	3481	0
> Ge	72		ug/L			392434	351048	0
Ni	60	0.415	ug/L	0.008	2	47	1248	2
Ni	62	0.301	ug/L	0.011	3	85	210	2
Cu	63	U 0.256	ug/L	0.005	1	279	1949	1
Cu	65	0.220	ug/L	0.005	2	93	784	1
Zn	66	U 0.177	ug/L	0.009	5	751	1038	1
Zn	67	0.384	ug/L	0.024	6	145	266	3
Zn	68	-0.236	ug/L	0.029	12	8019	6831	0
As-1	75	0.405	ug/L	0.007	1	-39	712	1
As	75	0.298	ug/L	0.025	8	8849	8469	0
Se	82	0.117	ug/L	0.020	17	-12	10	35
Se	78	-0.307	ug/L	0.097	31	9032	7930	0
[ Mo	98	1.196	ug/L	0.020	1	1392	9075	1
Y	89		ug/L			310463	288079	0
Kr	83		ug/L			81	68	2
> In	115		ug/L			464469	419814	1
Ag	107	U 0.005	ug/L	0.001	22	27	84	14
Cd	111	U 0.004	ug/L	0.003	86	218	209	5
Cd	114	-0.002	ug/L	0.001	61	68	46	19
Sb	121	0.060	ug/L	0.002	3	25	728	1
Sb	123	0.057	ug/L	0.003	5	20	526	4
Ba	135	1.768	ug/L	0.007	0	15	4849	1
[ Ba	137	1.811	ug/L	0.051	2	22	8426	1
> Tb	159		ug/L			467702	450514	2
Tl	205	0.002	ug/L	0.001	28	34	102	17
Pb	208	U 0.009	ug/L	0.001	6	244	642	4
Bi	209		ug/L			375879	347396	0
Th	232	0.021	ug/L	0.001	6	177	1504	6
[ U	238	0.066	ug/L	0.002	2	29	4476	1

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 F REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 15:05:18

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: C:\Elandata\Caldata\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	451910	0
[ Be	9	0.014	ug/L	0.008	59	2	9	41
C	13		mg/L			5140	6405	2
Cl	37		mg/L			2489408	2208662	0
> Sc	45		ug/L			273386	287634	0
V-1	51	9.675	ug/L	0.056	0	2122	135485	0
V	51	9.453	ug/L	0.053	0	767	134191	0
Cr	52	✓ 0.039	ug/L	0.005	13	6539	7351	0
Cr	53	✓ 0.065	ug/L	0.006	8	305	417	2
Mn	55	205.454	ug/L	0.264	0	899	4213346	0
[ Co	59	1.019	ug/L	0.016	1	48	16248	1
> Ge	72		ug/L			392434	337588	0
Ni	60	1.942	ug/L	0.068	3	47	5467	3
Ni	62	1.445	ug/L	0.063	4	85	690	4
Cu	63	1.216	ug/L	0.028	2	279	8002	2
Cu	65	✓ 1.084	ug/L	0.004	0	93	3395	0
Zn	66	✓ 1.636	ug/L	0.047	2	751	3899	2
Zn	67	2.648	ug/L	0.136	5	145	1032	4
Zn	68	1.797	ug/L	0.085	4	8019	9408	1
As-1	75	2.030	ug/L	0.008	0	-39	3570	0
As	75	1.940	ug/L	0.056	2	8849	11079	1
Se	82	0.348	ug/L	0.015	4	-12	51	5
Se	78	0.062	ug/L	0.210	338	9032	7799	1
[ Mo	98	6.851	ug/L	0.057	0	1392	44328	0
Y	89		ug/L			310463	281253	0
Kr	83		ug/L			81	72	4
> In	115		ug/L			464469	400601	0
Ag	107	✓ 0.007	ug/L	0.001	8	27	111	6
Cd	111	✓ 0.014	ug/L	0.011	80	218	232	15
Cd	114	0.011	ug/L	0.001	13	68	143	8
Sb	121	0.265	ug/L	0.003	1	25	3011	0
Sb	123	0.264	ug/L	0.010	3	20	2266	4
Ba	135	8.941	ug/L	0.154	1	15	23344	2
[ Ba	137	8.985	ug/L	0.108	1	22	39816	0
> Tb	159		ug/L			467702	440010	0
Tl	205	✓ 0.004	ug/L	0.000	6	34	162	5
Pb	208	✓ 0.023	ug/L	0.000	1	244	1200	1
Bi	209		ug/L			375879	327465	0
Th	232	0.044	ug/L	0.003	7	177	2860	6
[ U	238	0.322	ug/L	0.004	1	29	21235	1

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 FDUP REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 15:11:51

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	451332	0
[ Be	9	0.009	ug/L	0.012	133	2	6	78
C	13		mg/L			5140	6447	1
Cl	37		mg/L			2489408	2188780	0
> Sc	45		ug/L			273386	287873	0
V-1	51	9.404	ug/L	0.010	0	2122	131863	0
V	51	9.188	ug/L	0.011	0	767	130555	0
Cr	52	0.038	ug/L	0.005	13	6539	7343	0
Cr	53	0.061	ug/L	0.026	42	305	411	9
Mn	55	200.848	ug/L	0.868	0	899	4122296	0
Co	59	0.993	ug/L	0.007	0	48	15847	0
> Ge	72		ug/L			392434	337736	0
Ni	60	1.934	ug/L	0.052	2	47	5447	2
Ni	62	1.492	ug/L	0.025	1	85	710	2
Cu	63	1.216	ug/L	0.018	1	279	8007	1
Cu	65	1.086	ug/L	0.029	2	93	3405	2
Zn	66	1.172	ug/L	0.025	2	751	2979	2
Zn	67	2.087	ug/L	0.101	4	145	840	3
Zn	68	1.211	ug/L	0.148	12	8019	8593	1
As-1	75	1.989	ug/L	0.007	0	-39	3499	1
As	75	1.863	ug/L	0.040	2	8849	10947	0
Se	82	0.338	ug/L	0.028	8	-12	49	9
Se	78	-0.080	ug/L	0.180	224	9032	7735	0
Mo	98	6.594	ug/L	0.068	1	1392	42732	1
Y	89		ug/L			310463	278894	1
Kr	83		ug/L			81	73	6
> In	115		ug/L			464469	399779	0
Ag	107	0.004	ug/L	0.001	31	27	74	20
Cd	111	0.009	ug/L	0.007	77	218	215	10
Cd	114	0.012	ug/L	0.003	25	68	148	15
Sb	121	0.260	ug/L	0.006	2	25	2947	1
Sb	123	0.258	ug/L	0.014	5	20	2207	5
Ba	135	8.685	ug/L	0.038	0	15	22629	0
Ba	137	8.735	ug/L	0.037	0	22	38630	0
> Tb	159		ug/L			467702	439969	0
Tl	205	0.003	ug/L	0.000	3	34	130	2
Pb	208	0.023	ug/L	0.001	3	244	1207	2
Bi	209		ug/L			375879	327121	0
Th	232	0.019	ug/L	0.001	6	177	1336	5
U	238	0.313	ug/L	0.001	0	29	20667	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 FSPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 15:18:22

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	457474	1
[ Be	9	26.020	ug/L	0.390	1	2	11858	1
C	13		mg/L			5140	6238	1
Cl	37		mg/L			2489408	2167286	0
> Sc	45		ug/L			273386	288734	1
V-1	51	32.902	ug/L	0.233	0	2122	457113	1
V	51	32.714	ug/L	0.229	0	767	464152	1
Cr	52	22.782	ug/L	0.330	1	6539	282646	1
Cr	53	22.948	ug/L	0.393	1	305	34190	0
Mn	55	234.446	ug/L	0.153	0	899	4826116	1
[ Co	59	24.253	ug/L	0.202	0	48	387078	0
> Ge	72		ug/L			392434	336357	0
Ni	60	29.884	ug/L	0.477	1	47	83232	1
Ni	62	29.255	ug/L	0.305	1	85	12499	0
Cu	63	29.078	ug/L	0.265	0	279	185159	1
Cu	65	28.398	ug/L	0.165	0	93	86657	0
Zn	66	84.939	ug/L	0.299	0	751	168900	0
Zn	67	77.307	ug/L	0.370	0	145	26520	0
Zn	68	84.453	ug/L	0.357	0	8019	124401	0
As-1	75	29.832	ug/L	0.193	0	-39	52744	0
As	75	29.245	ug/L	0.283	0	8849	59665	0
Se	82	88.645	ug/L	0.583	0	-12	15876	0
Se	78	84.868	ug/L	0.552	0	9032	47411	0
[ Mo	98	7.033	ug/L	0.061	0	1392	45307	1
Y	89		ug/L			310463	280289	0
Kr	83		ug/L			81	75	4
> In	115		ug/L			464469	397962	0
Ag	107	26.565	ug/L	0.166	0	27	327711	0
Cd	111	26.844	ug/L	0.116	0	218	85363	0
Cd	114	27.035	ug/L	0.398	1	68	204802	1
Sb	121	0.280	ug/L	0.005	1	25	3154	1
Sb	123	0.276	ug/L	0.007	2	20	2353	2
Ba	135	36.603	ug/L	0.292	0	15	94895	0
[ Ba	137	36.767	ug/L	0.175	0	22	161796	0
> Tb	159		ug/L			467702	444523	0
Tl	205	24.110	ug/L	0.161	0	34	768884	0
Pb	208	24.859	ug/L	0.222	0	244	1075420	0
Bi	209		ug/L			375879	327945	0
Th	232	24.617	ug/L	0.120	0	177	1535490	0
[ U	238	25.120	ug/L	0.170	0	29	1672306	0



# ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 FPOST REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 15:24:52

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	440046	1
[ Be	9	24.291	ug/L	0.151	0	2	10649	1
C	13		mg/L			5140	6350	3
Cl	37		mg/L			2489408	2129506	0
> Sc	45		ug/L			273386	273445	1
V-1	51	31.521	ug/L	0.188	0	2122	414863	1
V	51	31.256	ug/L	0.132	0	767	420061	1
Cr	52	21.604	ug/L	0.131	0	6539	254199	1
Cr	53	21.518	ug/L	0.058	0	305	30386	1
Mn	55	226.691	ug/L	2.503	1	899	4418983	0
[ Co	59	22.805	ug/L	0.395	1	48	344690	0
> Ge	72		ug/L			392434	324735	1
Ni	60	27.853	ug/L	0.224	0	47	74896	0
Ni	62	27.107	ug/L	0.196	0	85	11186	1
Cu	63	27.262	ug/L	0.163	0	279	167617	1
Cu	65	26.798	ug/L	0.558	2	93	78944	1
Zn	66	80.660	ug/L	0.276	0	751	154877	1
Zn	67	73.707	ug/L	1.065	1	145	24415	1
Zn	68	79.581	ug/L	0.986	1	8019	113568	2
As-1	75	28.081	ug/L	0.049	0	-39	47932	1
As	75	27.698	ug/L	0.250	0	8849	54947	2
Se	82	81.576	ug/L	0.892	1	-12	14103	0
Se	78	78.729	ug/L	0.648	0	9032	43002	1
[ Mo	98	6.686	ug/L	0.075	1	1392	41637	1
Y	89		ug/L			310463	268752	1
Kr	83		ug/L			81	75	6
> In	115		ug/L			464469	378285	0
Ag	107	24.825	ug/L	0.192	0	27	291102	1
Cd	111	25.452	ug/L	0.217	0	218	76945	1
Cd	114	25.416	ug/L	0.051	0	68	183022	0
Sb	121	0.265	ug/L	0.006	2	25	2843	1
Sb	123	0.261	ug/L	0.006	2	20	2119	2
Ba	135	34.796	ug/L	0.111	0	15	85752	0
[ Ba	137	34.941	ug/L	0.354	1	22	146160	1
> Tb	159		ug/L			467702	424924	1
Tl	205	22.865	ug/L	0.083	0	34	697056	1
Pb	208	23.471	ug/L	0.138	0	244	970643	1
Bi	209		ug/L			375879	315487	0
Th	232	23.208	ug/L	0.317	1	177	1383711	0
[ U	238	23.535	ug/L	0.074	0	29	1497757	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 C REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 15:31:24

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	448463	0
[ Be	9	0.022	ug/L	0.015	70	2	12	55
C	13		mg/L			5140	5806	0
Cl	37		mg/L			2489408	2082108	3
> Sc	45		ug/L			273386	282586	1
V-1	51	2.370	ug/L	0.065	2	2122	34252	1
V	51	2.345	ug/L	0.057	2	767	33289	0
Cr	52	0.495	ug/L	0.028	5	6539	12625	1
Cr	53	0.556	ug/L	0.011	1	305	1118	1
Mn	55	208.332	ug/L	4.368	2	899	4196551	0
[ Co	59	0.404	ug/L	0.010	2	48	6351	1
> Ge	72		ug/L			392434	328212	0
Ni	60	1.440	ug/L	0.053	3	47	3952	3
Ni	62	1.147	ug/L	0.038	3	85	547	3
Cu	63	2.248	ug/L	0.025	1	279	14183	0
Cu	65	2.157	ug/L	0.064	2	93	6495	2
Zn	66	2.983	ug/L	0.020	0	751	6394	0
Zn	67	3.138	ug/L	0.061	1	145	1166	1
Zn	68	3.213	ug/L	0.117	3	8019	11069	1
As-1	75	2.158	ug/L	0.047	2	-39	3692	1
As	75	2.034	ug/L	0.078	3	8849	10935	0
Se	82	0.240	ug/L	0.027	11	-12	31	14
Se	78	-0.189	ug/L	0.162	86	9032	7467	0
[ Mo	98	1.813	ug/L	0.034	1	1392	12261	1
Y	89		ug/L			310463	278978	0
Kr	83		ug/L			81	67	0
> In	115		ug/L			464469	386265	0
Ag	107	0.025	ug/L	0.002	7	27	322	7
Cd	111	0.046	ug/L	0.009	19	218	324	9
Cd	114	0.023	ug/L	0.002	10	68	228	7
Sb	121	0.106	ug/L	0.003	2	25	1176	2
Sb	123	0.105	ug/L	0.004	3	20	877	3
Ba	135	9.719	ug/L	0.066	0	15	24466	1
[ Ba	137	9.892	ug/L	0.061	0	22	42263	0
> Tb	159		ug/L			467702	431240	0
Tl	205	0.006	ug/L	0.001	8	34	225	6
Pb	208	0.559	ug/L	0.006	0	244	23692	0
Bi	209		ug/L			375879	319552	0
Th	232	0.096	ug/L	0.001	1	177	5953	0
[ U	238	0.187	ug/L	0.003	1	29	12073	1

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 D REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 15:37:55

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	442193	0
[ Be	9	0.016	ug/L	0.006	36	2	9	27
C	13		mg/L			5140	6662	3
Cl	37		mg/L			2489408	2462011	1
> Sc	45		ug/L			273386	316855	0
V-1	51	5.572	ug/L	0.076	1	2122	86992	1
V	51	5.616	ug/L	0.098	1	767	88187	1
Cr	52	2.128	ug/L	0.019	0	6539	35841	0
Cr	53	2.518	ug/L	0.066	2	305	4432	2
Mn	55	548.467	ug/L	3.587	0	899	12388544	0
[ Co	59	0.330	ug/L	0.008	2	48	5841	2
> Ge	72		ug/L			392434	332504	0
Ni	60	1.223	ug/L	0.050	4	47	3405	3
Ni	62	0.588	ug/L	0.033	5	85	319	4
Cu	63	1.725	ug/L	0.014	0	279	11079	1
Cu	65	0.296	ug/L	0.018	5	93	971	5
Zn	66	0.750	ug/L	0.012	1	751	2106	1
Zn	67	1.456	ug/L	0.040	2	145	614	2
Zn	68	1.256	ug/L	0.079	6	8019	8522	0
As-1	75	0.553	ug/L	0.011	2	-39	933	2
As	75	0.303	ug/L	0.037	12	8849	8030	0
Se	82	1.500	ug/L	0.045	3	-12	255	2
Se	78	0.574	ug/L	0.203	35	9032	7918	0
[ Mo	98	0.011	ug/L	0.002	15	1392	1250	0
Y	89		ug/L			310463	277912	1
Kr	83		ug/L			81	77	5
> In	115		ug/L			464469	385553	0
Ag	107	0.011	ug/L	0.001	8	27	152	8
Cd	111	-0.054	ug/L	0.028	51	218	15	551
Cd	114	0.000	ug/L	0.001	338	68	58	9
Sb	121	0.047	ug/L	0.003	6	25	530	5
Sb	123	0.049	ug/L	0.003	5	20	418	6
Ba	135	9.565	ug/L	0.071	0	15	24032	0
[ Ba	137	9.542	ug/L	0.079	0	22	40692	0
> Tb	159		ug/L			467702	419790	1
Tl	205	0.002	ug/L	0.000	23	34	79	12
Pb	208	0.075	ug/L	0.001	1	244	3298	0
Bi	209		ug/L			375879	305205	0
Th	232	0.027	ug/L	0.001	2	177	1731	1
[ U	238	0.045	ug/L	0.000	1	29	2852	1

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 E REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 15:44:27

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	424299	0
[ Be	9	0.026	ug/L	0.005	19	2	13	15
C	13		mg/L			5140	7107	2
Cl	37		mg/L			2489408	2424166	0
> Sc	45		ug/L			273386	296985	1
V-1	51	5.537	ug/L	0.022	0	2122	81051	1
V	51	5.512	ug/L	0.014	0	767	81140	1
Cr	52	0.610	ug/L	0.012	2	6539	14702	2
Cr	53	0.894	ug/L	0.032	3	305	1689	3
Mn	55	608.142	ug/L	4.782	0	899	12875918	2
Co	59	1.973	ug/L	0.016	0	48	32444	0
> Ge	72		ug/L			392434	325909	1
Ni	60	3.091	ug/L	0.060	1	47	8378	2
Ni	62	2.286	ug/L	0.072	3	85	1012	4
Cu	63	2.295	ug/L	0.042	1	279	14373	2
Cu	65	1.072	ug/L	0.009	0	93	3242	1
Zn	66	4.444	ug/L	0.101	2	751	9155	3
Zn	67	5.374	ug/L	0.278	5	145	1898	5
Zn	68	5.386	ug/L	0.096	1	8019	13922	1
As-1	75	11.761	ug/L	0.044	0	-39	20128	1
As	75	11.578	ug/L	0.104	0	8849	27325	1
Se	82	1.509	ug/L	0.102	6	-12	251	6
Se	78	1.127	ug/L	0.256	22	9032	8010	0
Mo	98	8.476	ug/L	0.003	0	1392	52668	1
Y	89		ug/L			310463	280133	2
Kr	83		ug/L			81	78	14
> In	115		ug/L			464469	377032	1
Ag	107	0.009	ug/L	0.001	16	27	124	12
Cd	111	-0.005	ug/L	0.007	128	218	160	12
Cd	114	0.033	ug/L	0.004	13	68	289	12
Sb	121	1.735	ug/L	0.009	0	25	18432	2
Sb	123	1.732	ug/L	0.011	0	20	13898	1
Ba	135	48.476	ug/L	0.274	0	15	119060	1
Ba	137	48.845	ug/L	0.222	0	22	203638	1
> Tb	159		ug/L			467702	402339	1
Tl	205	0.012	ug/L	0.001	5	34	373	5
Pb	208	0.166	ug/L	0.001	0	244	6692	1
Bi	209		ug/L			375879	297062	0
Th	232	0.050	ug/L	0.003	6	177	2988	5
U	238	2.496	ug/L	0.005	0	29	150398	1

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 G REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 15:51:00

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	439215	1
[ Be	9	0.031	ug/L	0.010	32	2	16	27
C	13		mg/L			5140	6186	2
Cl	37		mg/L			2489408	2111515	4
> Sc	45		ug/L			273386	278969	3
V-1	51	4.877	ug/L	0.115	2	2122	67278	1
V	51	4.774	ug/L	0.103	2	767	66082	1
Cr	52	0.498	ug/L	0.020	3	6539	12496	1
Cr	53	0.503	ug/L	0.028	5	305	1029	5
Mn	55	387.531	ug/L	2.016	0	899	7706106	3
[ Co	59	2.157	ug/L	0.014	0	48	33303	3
> Ge	72		ug/L			392434	318802	1
Ni	60	2.359	ug/L	0.036	1	47	6265	3
Ni	62	2.139	ug/L	0.069	3	85	930	1
Cu	63	2.199	ug/L	0.007	0	279	13480	2
Cu	65	2.089	ug/L	0.017	0	93	6112	1
Zn	66	3.908	ug/L	0.076	1	751	7947	2
Zn	67	4.487	ug/L	0.082	1	145	1569	2
Zn	68	4.698	ug/L	0.082	1	8019	12711	2
As-1	75	4.451	ug/L	0.036	0	-39	7431	1
As	75	4.529	ug/L	0.082	1	8849	14831	0
Se	82	0.326	ug/L	0.002	0	-12	45	2
Se	78	0.749	ug/L	0.182	24	9032	7668	0
[ Mo	98	2.847	ug/L	0.050	1	1392	18060	2
Y	89		ug/L			310463	275476	2
Kr	83		ug/L			81	70	0
> In	115		ug/L			464469	376126	2
Ag	107	0.009	ug/L	0.002	16	27	130	11
Cd	111	0.035	ug/L	0.002	4	218	280	4
Cd	114	0.022	ug/L	0.001	5	68	211	4
Sb	121	0.132	ug/L	0.004	2	25	1416	3
Sb	123	0.132	ug/L	0.003	2	20	1071	4
Ba	135	28.318	ug/L	0.083	0	15	69391	2
[ Ba	137	28.364	ug/L	0.231	0	22	117972	2
> Tb	159		ug/L			467702	413629	1
Tl	205	0.011	ug/L	0.001	6	34	355	6
Pb	208	0.333	ug/L	0.003	0	244	13617	1
Bi	209		ug/L			375879	312967	2
Th	232	0.088	ug/L	0.003	3	177	5276	3
[ U	238	0.308	ug/L	0.001	0	29	19105	1

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 H REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 15:57:33

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	425176	0
[ Be	9	0.005	ug/L	0.006	130	2	4	56
C	13		mg/L			5140	5910	1
Cl	37		mg/L			2489408	2080374	3
> Sc	45		ug/L			273386	264007	0
V-1	51	1.373	ug/L	0.019	1	2122	19401	1
V	51	1.353	ug/L	0.022	1	767	18265	1
Cr	52	0.137	ug/L	0.011	8	6539	7837	2
Cr	53	0.169	ug/L	0.027	16	305	522	7
Mn	55	209.074	ug/L	1.281	0	899	3935229	0
Co	59	0.357	ug/L	0.012	3	48	5261	2
> Ge	72		ug/L			392434	310223	0
Ni	60	1.214	ug/L	0.007	0	47	3154	0
Ni	62	0.679	ug/L	0.051	7	85	333	6
Cu	63	0.651	ug/L	0.006	0	279	4040	0
Cu	65	0.575	ug/L	0.009	1	93	1691	2
Zn	66	9.091	ug/L	0.203	2	751	17203	1
Zn	67	8.271	ug/L	0.374	4	145	2718	3
Zn	68	9.425	ug/L	0.086	0	8019	18435	0
As-1	75	1.881	ug/L	0.012	0	-39	3038	0
As	75	2.018	ug/L	0.056	2	8849	10309	0
Se	82	0.304	ug/L	0.017	5	-12	40	6
Se	78	0.887	ug/L	0.182	20	9032	7522	0
Mo	98	1.980	ug/L	0.013	0	1392	12555	1
Y	89		ug/L			310463	252393	0
Kr	83		ug/L			81	68	1
> In	115		ug/L			464469	364207	1
Ag	107	0.003	ug/L	0.001	52	27	51	30
Cd	111	0.004	ug/L	0.004	104	218	182	6
Cd	114	0.002	ug/L	0.001	48	68	66	7
Sb	121	0.118	ug/L	0.002	1	25	1226	0
Sb	123	0.124	ug/L	0.005	4	20	979	3
Ba	135	6.389	ug/L	0.187	2	15	15166	2
Ba	137	6.483	ug/L	0.045	0	22	26122	1
> Tb	159		ug/L			467702	401621	0
Tl	205	0.003	ug/L	0.000	8	34	107	6
Pb	208	0.026	ug/L	0.001	2	244	1216	2
Bi	209		ug/L			375879	299682	0
Th	232	0.010	ug/L	0.001	5	177	711	3
U	238	0.148	ug/L	0.002	1	29	8930	1

SU53 : 01378

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV4

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 16:04:07

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	448918	0
[ Be	9	48.126	ug/L	0.586	1	2	21520	1
C	13		mg/L			5140	3698	1
Cl	37		mg/L			2489408	2156199	0
> Sc	45		ug/L			273386	225535	0
V-1	51	50.797	ug/L	0.353	0	2122	550307	0
V	51	50.543	ug/L	0.342	0	767	559818	0
Cr	52	50.514	ug/L	0.300	0	6539	483000	1
Cr	53	49.754	ug/L	0.468	0	305	57620	1
Mn	55	50.436	ug/L	0.282	0	899	811563	0
[ Co	59	50.708	ug/L	0.332	0	48	632154	0
> Ge	72		ug/L			392434	318935	0
Ni	60	51.395	ug/L	0.727	1	47	135707	1
Ni	62	50.598	ug/L	0.933	1	85	20447	1
Cu	63	50.905	ug/L	0.513	1	279	307184	1
Cu	65	50.541	ug/L	0.271	0	93	146182	1
Zn	66	51.344	ug/L	0.205	0	751	97048	0
Zn	67	50.378	ug/L	0.587	1	145	16428	1
Zn	68	50.406	ug/L	0.427	0	8019	73029	0
As-1	75	50.565	ug/L	0.389	0	-39	84794	0
As	75	50.417	ug/L	0.392	0	8849	92325	0
Se	82	52.937	ug/L	0.290	0	-12	8986	0
Se	78	52.324	ug/L	0.376	0	9032	30531	0
[ Mo	98	51.400	ug/L	0.435	0	1392	306826	0
Y	89		ug/L			310463	257814	0
Kr	83		ug/L			81	80	2
> In	115		ug/L			464469	376844	0
Ag	107	50.290	ug/L	0.428	0	27	587410	0
Cd	111	50.464	ug/L	0.431	0	218	151799	1
Cd	114	51.120	ug/L	0.564	1	68	366638	0
Sb	121	50.660	ug/L	0.517	1	25	537412	0
Sb	123	50.954	ug/L	0.922	1	20	408210	1
Ba	135	50.251	ug/L	0.139	0	15	123361	0
[ Ba	137	50.710	ug/L	0.621	1	22	211295	0
> Tb	159		ug/L			467702	423252	0
Ti	205	44.400	ug/L	0.260	0	34	1348192	0
Pb	208	46.065	ug/L	0.234	0	244	1897283	0
Bi	209		ug/L			375879	318207	0
Th	232	47.702	ug/L	0.608	1	177	2832828	0
U	238	48.483	ug/L	0.087	0	29	3073340	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB4

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 16:11:19

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	473957	1
[ Be	9	-0.001	ug/L	0.000	8	2	2	
C	13		mg/L			5140	3799	4
Cl	37		mg/L			2489408	2243630	0
> Sc	45		ug/L			273386	236729	0
V-1	51	0.009	ug/L	0.007	83	2122	1939	4
V	51	-0.009	ug/L	0.004	42	767	555	8
Cr	52	-0.002	ug/L	0.008	432	6539	5643	1
Cr	53	-0.057	ug/L	0.020	34	305	195	12
Mn	55	0.012	ug/L	0.002	18	899	982	3
[ Co	59	0.005	ug/L	0.001	15	48	103	8
> Ge	72		ug/L			392434	332766	0
Ni	60	0.002	ug/L	0.002	86	47	45	10
Ni	62	-0.012	ug/L	0.004	32	85	67	2
Cu	63	-0.004	ug/L	0.002	39	279	208	4
Cu	65	-0.001	ug/L	0.005	728	93	77	19
Zn	66	-0.248	ug/L	0.006	2	751	150	8
Zn	67	-0.195	ug/L	0.020	10	145	57	11
Zn	68	-0.554	ug/L	0.021	3	8019	6037	0
As-1	75	-0.004	ug/L	0.003	66	-39	-40	12
As	75	0.009	ug/L	0.047	522	8849	7519	0
Se	82	0.037	ug/L	0.023	61	-12	-4	97
Se	78	0.086	ug/L	0.161	188	9032	7698	0
[ Mo	98	-0.172	ug/L	0.002	1	1392	115	11
Y	89		ug/L			310463	273503	0
Kr	83		ug/L			81	69	0
> In	115		ug/L			464469	402688	0
Ag	107	0.010	ug/L	0.002	15	27	149	12
Cd	111	0.001	ug/L	0.001	57	218	192	1
Cd	114	-0.003	ug/L	0.000	8	68	34	6
Sb	121	0.013	ug/L	0.003	25	25	173	21
Sb	123	0.013	ug/L	0.003	24	20	127	20
Ba	135	0.004	ug/L	0.001	17	15	24	7
[ Ba	137	0.006	ug/L	0.003	53	22	45	30
> Tb	159		ug/L			467702	437466	0
Tl	205	0.004	ug/L	0.001	13	34	170	10
Pb	208	0.004	ug/L	0.001	19	244	412	8
Bi	209		ug/L			375879	337720	0
Th	232	0.036	ug/L	0.003	7	177	2401	7
[ U	238	0.005	ug/L	0.001	12	29	364	11



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 ADUP REN

Sample Dil Factor: 50

Comments:

Sample Date/Time: Tuesday, May 10, 2011 16:18:32

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	459630	0
[ Be	9	0.000	ug/L	0.006	2653	2	2	89
C	13		mg/L			5140	4097	1
Cl	37		mg/L			2489408	2208980	0
> Sc	45		ug/L			273386	236133	1
V-1	51	0.098	ug/L	0.005	5	2122	2936	2
V	51	0.079	ug/L	0.004	5	767	1574	3
Cr	52	0.047	ug/L	0.017	36	6539	6112	2
Cr	53	-0.007	ug/L	0.015	204	305	255	5
Mn	55	16.917	ug/L	0.199	1	899	285494	0
[ Co	59	0.027	ug/L	0.001	4	48	399	3
> Ge	72		ug/L			392434	332632	0
Ni	60	0.101	ug/L	0.016	15	47	319	13
Ni	62	0.047	ug/L	0.027	58	85	92	12
Cu	63	1.336	ug/L	0.029	2	279	8637	1
Cu	65	1.311	ug/L	0.026	1	93	4031	1
Zn	66	1.784	ug/L	0.052	2	751	4131	1
Zn	67	1.516	ug/L	0.127	8	145	634	6
Zn	68	1.469	ug/L	0.060	4	8019	8818	0
As-1	75	167.446	ug/L	1.420	0	-39	292923	0
As	75	166.376	ug/L	1.434	0	8849	300498	0
Se	82	0.072	ug/L	0.044	60	-12	2	364
Se	78	0.141	ug/L	0.198	139	9032	7720	0
[ Mo	98	-0.036	ug/L	0.012	31	1392	954	6
Y	89		ug/L			310463	271716	1
Kr	83		ug/L			81	65	6
> In	115		ug/L			464469	399568	0
Ag	107	0.003	ug/L	0.000	13	27	57	7
Cd	111	0.005	ug/L	0.002	40	218	204	3
Cd	114	0.001	ug/L	0.001	111	68	65	10
Sb	121	0.016	ug/L	0.002	14	25	198	12
Sb	123	0.015	ug/L	0.001	6	20	143	5
Ba	135	0.038	ug/L	0.001	3	15	112	3
[ Ba	137	0.037	ug/L	0.001	3	22	181	3
> Tb	159		ug/L			467702	438803	1
Tl	205	0.002	ug/L	0.000	22	34	81	14
Pb	208	0.014	ug/L	0.001	5	244	826	2
Bi	209		ug/L			375879	333888	0
Th	232	0.010	ug/L	0.001	5	177	769	4
[ U	238	0.002	ug/L	0.000	21	29	136	16

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 A REN

Sample Dil Factor: 50

Comments:

Sample Date/Time: Tuesday, May 10, 2011 16:25:06

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	456850	1
[ Be	9	-0.001	ug/L	0.003	417	2	2	50
C	13		mg/L			5140	4104	1
Cl	37		mg/L			2489408	2202496	0
> Sc	45		ug/L			273386	235970	0
V-1	51	0.099	ug/L	0.003	3	2122	2952	0
V	51	0.077	ug/L	0.004	4	767	1554	1
Cr	52	0.046	ug/L	0.013	29	6539	6098	1
Cr	53	-0.018	ug/L	0.016	88	305	242	7
Mn	55	16.616	ug/L	0.234	1	899	280246	0
[ Co	59	0.025	ug/L	0.001	2	48	370	2
> Ge	72		ug/L			392434	326531	1
Ni	60	0.102	ug/L	0.006	6	47	315	6
Ni	62	0.035	ug/L	0.029	83	85	85	14
Cu	63	1.273	ug/L	0.007	0	279	8092	0
Cu	65	1.245	ug/L	0.029	2	93	3763	2
Zn	66	1.784	ug/L	0.023	1	751	4054	0
Zn	67	1.561	ug/L	0.096	6	145	638	3
Zn	68	1.504	ug/L	0.168	11	8019	8703	1
As-1	75	165.701	ug/L	1.613	0	-39	284543	0
As	75	164.768	ug/L	1.687	1	8849	292197	0
Se	82	0.066	ug/L	0.034	51	-12	1	580
Se	78	0.603	ug/L	0.299	49	9032	7788	0
[ Mo	98	-0.044	ug/L	0.004	9	1392	892	1
Y	89		ug/L			310463	269069	1
Kr	83		ug/L			81	62	3
> In	115		ug/L			464469	395142	0
Ag	107	0.002	ug/L	0.000	10	27	52	6
Cd	111	0.007	ug/L	0.003	43	218	206	4
Cd	114	0.001	ug/L	0.002	196	68	64	17
Sb	121	0.013	ug/L	0.000	0	25	161	0
Sb	123	0.013	ug/L	0.001	3	20	125	3
Ba	135	0.032	ug/L	0.001	3	15	94	3
[ Ba	137	0.034	ug/L	0.006	18	22	168	16
> Tb	159		ug/L			467702	432869	0
Tl	205	0.001	ug/L	0.000	11	34	52	4
Pb	208	0.011	ug/L	0.001	7	244	695	4
Bi	209		ug/L			375879	329742	0
Th	232	0.005	ug/L	0.000	8	177	469	5
[ U	238	0.001	ug/L	0.000	12	29	95	8

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 ASPK REN

Sample Dil Factor: 50

Comments:

Sample Date/Time: Tuesday, May 10, 2011 16:31:40

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	462882	0
[ Be	9	0.991	ug/L	0.041	4	2	459	5
C	13		mg/L			5140	4104	2
Cl	37		mg/L			2489408	2210656	0
> Sc	45		ug/L			273386	239302	1
V-1	51	1.111	ug/L	0.017	1	2122	14587	0
V	51	1.092	ug/L	0.015	1	767	13492	0
Cr	52	1.069	ug/L	0.015	1	6539	16448	1
Cr	53	1.014	ug/L	0.028	2	305	1508	2
Mn	55	18.100	ug/L	0.173	0	899	309547	1
[ Co	59	1.074	ug/L	0.015	1	48	14246	1
> Ge	72		ug/L			392434	332892	0
Ni	60	1.170	ug/L	0.022	1	47	3262	0
Ni	62	1.141	ug/L	0.039	3	85	552	3
Cu	63	2.371	ug/L	0.044	1	279	15156	1
Cu	65	2.378	ug/L	0.027	1	93	7253	0
Zn	66	5.083	ug/L	0.077	1	751	10602	1
Zn	67	4.515	ug/L	0.265	5	145	1648	5
Zn	68	4.755	ug/L	0.180	3	8019	13351	2
As-1	75	172.545	ug/L	1.300	0	-39	302077	0
As	75	171.441	ug/L	1.354	0	8849	309659	0
Se	82	3.572	ug/L	0.126	3	-12	622	3
Se	78	3.561	ug/L	0.311	8	9032	9308	0
[ Mo	98	-0.044	ug/L	0.001	3	1392	909	1
Y	89		ug/L			310463	274619	0
Kr	83		ug/L			81	67	8
> In	115		ug/L			464469	402080	0
Ag	107	0.759	ug/L	0.009	1	27	9480	1
Cd	111	1.058	ug/L	0.016	1	218	3579	1
Cd	114	1.044	ug/L	0.012	1	68	8047	1
Sb	121	0.012	ug/L	0.002	15	25	152	13
Sb	123	0.011	ug/L	0.003	25	20	111	21
Ba	135	1.044	ug/L	0.018	1	15	2748	1
[ Ba	137	1.069	ug/L	0.010	0	22	4770	1
> Tb	159		ug/L			467702	441974	0
Tl	205	0.930	ug/L	0.005	0	34	29526	0
Pb	208	0.953	ug/L	0.004	0	244	41202	0
Bi	209		ug/L			375879	336849	0
Th	232	0.882	ug/L	0.009	1	177	54881	0
[ U	238	0.932	ug/L	0.010	1	29	61695	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 KDUP REN

Sample Dil Factor: 50

Comments:

Sample Date/Time: Tuesday, May 10, 2011 16:38:15

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	473329	1
[ Be	9	-0.003	ug/L	0.005	132	2	1	173
C	13		mg/L			5140	4009	0
Cl	37		mg/L			2489408	2235142	0
> Sc	45		ug/L			273386	243038	1
V-1	51	0.084	ug/L	0.008	9	2122	2862	1
V	51	0.067	ug/L	0.006	9	767	1485	4
Cr	52	0.039	ug/L	0.020	52	6539	6209	1
Cr	53	-0.008	ug/L	0.016	190	305	261	6
Mn	55	17.317	ug/L	0.328	1	899	300730	0
[ Co	59	0.025	ug/L	0.001	4	48	380	2
> Ge	72		ug/L			392434	340311	0
Ni	60	0.092	ug/L	0.008	8	47	299	8
Ni	62	0.013	ug/L	0.040	311	85	80	21
Cu	63	0.134	ug/L	0.003	1	279	1104	0
Cu	65	0.121	ug/L	0.010	8	93	453	6
Zn	66	1.499	ug/L	0.017	1	751	3656	1
Zn	67	1.200	ug/L	0.078	6	145	540	4
Zn	68	1.123	ug/L	0.049	4	8019	8535	1
As-1	75	156.450	ug/L	0.971	0	-39	280005	0
As	75	155.388	ug/L	0.999	0	8849	287642	0
Se	82	0.089	ug/L	0.060	68	-12	5	211
Se	78	-0.104	ug/L	0.119	114	9032	7783	0
[ Mo	98	-0.055	ug/L	0.003	6	1392	858	2
Y	89		ug/L			310463	276389	0
Kr	83		ug/L			81	63	15
> In	115		ug/L			464469	408689	0
Ag	107	0.002	ug/L	0.001	33	27	55	19
Cd	111	-0.004	ug/L	0.005	138	218	180	9
Cd	114	-0.005	ug/L	0.001	23	68	22	38
Sb	121	0.009	ug/L	0.002	18	25	130	15
Sb	123	0.010	ug/L	0.002	23	20	105	19
Ba	135	0.030	ug/L	0.002	6	15	93	6
[ Ba	137	0.033	ug/L	0.001	1	22	168	1
> Tb	159		ug/L			467702	448225	1
Tl	205	0.000	ug/L	0.000	52	34	48	17
Pb	208	0.004	ug/L	0.000	9	244	396	4
Bi	209		ug/L			375879	340862	0
Th	232	0.004	ug/L	0.001	13	177	427	7
[ U	238	0.001	ug/L	0.000	25	29	80	17

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 K REN

Sample Dil Factor: 50

Comments:

Sample Date/Time: Tuesday, May 10, 2011 16:44:51

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	464760	0
[ Be	9	-0.002	ug/L	0.006	348	2	2	124
C	13		mg/L			5140	4063	4
Cl	37		mg/L			2489408	2225955	0
> Sc	45		ug/L			273386	242591	0
V-1	51	0.084	ug/L	0.005	5	2122	2863	1
V	51	0.067	ug/L	0.001	2	767	1478	0
Cr	52	0.028	ug/L	0.008	27	6539	6091	0
Cr	53	-0.021	ug/L	0.006	28	305	245	3
Mn	55	16.440	ug/L	0.064	0	899	285086	1
[ Co	59	0.026	ug/L	0.001	4	48	375	3
> Ge	72		ug/L			392434	333480	0
Ni	60	0.101	ug/L	0.005	4	47	318	4
Ni	62	0.043	ug/L	0.031	71	85	91	14
Cu	63	0.134	ug/L	0.003	2	279	1083	2
Cu	65	0.113	ug/L	0.002	2	93	422	1
Zn	66	2.074	ug/L	0.070	3	751	4712	3
Zn	67	1.838	ug/L	0.013	0	145	745	0
Zn	68	1.736	ug/L	0.083	4	8019	9208	1
As-1	75	151.411	ug/L	1.219	0	-39	265557	0
As	75	150.487	ug/L	1.231	0	8849	273225	0
Se	82	0.049	ug/L	0.050	100	-12	-1	460
Se	78	0.267	ug/L	0.076	28	9032	7799	0
[ Mo	98	-0.049	ug/L	0.012	24	1392	879	8
Y	89		ug/L			310463	273746	1
Kr	83		ug/L			81	64	4
> In	115		ug/L			464469	404606	1
Ag	107	0.001	ug/L	0.000	26	27	35	8
Cd	111	-0.000	ug/L	0.007	36539	218	189	12
Cd	114	-0.005	ug/L	0.001	13	68	20	25
Sb	121	0.011	ug/L	0.001	12	25	146	10
Sb	123	0.011	ug/L	0.000	3	20	109	4
Ba	135	0.030	ug/L	0.005	15	15	92	12
[ Ba	137	0.031	ug/L	0.004	13	22	159	11
> Tb	159		ug/L			467702	437005	0
Tl	205	0.000	ug/L	0.000	169	34	36	18
Pb	208	0.004	ug/L	0.000	4	244	392	1
Bi	209		ug/L			375879	337332	1
Th	232	0.002	ug/L	0.000	13	177	284	5
[ U	238	0.001	ug/L	0.000	12	29	82	8

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 KSPK REN

Sample Dil Factor: 50

Comments:

Sample Date/Time: Tuesday, May 10, 2011 16:51:27

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	471278	0
Be	9	0.973	ug/L	0.033	3	2	459	3
C	13		mg/L			5140	4072	1
Cl	37		mg/L			2489408	2236705	0
> Sc	45		ug/L			273386	245757	1
V-1	51	1.084	ug/L	0.013	1	2122	14671	2
V	51	1.076	ug/L	0.006	0	767	13662	1
Cr	52	1.046	ug/L	0.012	1	6539	16651	1
Cr	53	1.023	ug/L	0.026	2	305	1559	1
Mn	55	18.142	ug/L	0.221	1	899	318593	0
Co	59	1.057	ug/L	0.009	0	48	14402	0
> Ge	72		ug/L			392434	341773	0
Ni	60	1.182	ug/L	0.026	2	47	3384	1
Ni	62	1.038	ug/L	0.037	3	85	522	3
Cu	63	1.233	ug/L	0.016	1	279	8208	0
Cu	65	1.184	ug/L	0.018	1	93	3750	1
Zn	66	4.871	ug/L	0.075	1	751	10458	1
Zn	67	4.231	ug/L	0.209	4	145	1594	4
Zn	68	4.474	ug/L	0.159	3	8019	13310	1
As-1	75	157.877	ug/L	0.845	0	-39	283778	0
As	75	156.834	ug/L	0.893	0	8849	291497	0
Se	82	3.514	ug/L	0.149	4	-12	629	4
Se	78	3.367	ug/L	0.113	3	9032	9465	0
Mo	98	-0.056	ug/L	0.005	9	1392	857	3
Y	89		ug/L			310463	280349	0
Kr	83		ug/L			81	69	6
> In	115		ug/L			464469	413497	0
Ag	107	0.693	ug/L	0.012	1	27	8911	1
Cd	111	1.041	ug/L	0.007	0	218	3625	0
Cd	114	1.030	ug/L	0.025	2	68	8162	1
Sb	121	0.008	ug/L	0.001	10	25	117	8
Sb	123	0.010	ug/L	0.000	3	20	105	2
Ba	135	1.035	ug/L	0.002	0	15	2802	0
Ba	137	1.037	ug/L	0.032	3	22	4759	2
> Tb	159		ug/L			467702	450947	0
Tl	205	0.926	ug/L	0.009	0	34	30000	0
Pb	208	0.964	ug/L	0.005	0	244	42549	0
Bi	209		ug/L			375879	344854	0
Th	232	0.915	ug/L	0.012	1	177	58050	0
U	238	0.943	ug/L	0.006	0	29	63742	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 B REN

Sample Dil Factor: 50

Comments:

Sample Date/Time: Tuesday, May 10, 2011 16:58:03

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	470909	0
[ Be	9	-0.002	ug/L	0.003	179	2	2	69
C	13		mg/L			5140	4431	2
Cl	37		mg/L			2489408	2246388	0
> Sc	45		ug/L			273386	245012	0
V-1	51	0.098	ug/L	0.003	3	2122	3051	1
V	51	0.081	ug/L	0.002	2	767	1663	1
Cr	52	0.041	ug/L	0.019	47	6539	6283	2
Cr	53	-0.006	ug/L	0.016	262	305	266	6
Mn	55	17.521	ug/L	0.123	0	899	306800	0
[ Co	59	0.027	ug/L	0.004	13	48	405	12
> Ge	72		ug/L			392434	336745	0
Ni	60	0.129	ug/L	0.025	19	47	399	17
Ni	62	0.021	ug/L	0.019	91	85	82	9
Cu	63	1.304	ug/L	0.039	2	279	8544	2
Cu	65	1.238	ug/L	0.022	1	93	3859	1
Zn	66	1.925	ug/L	0.010	0	751	4461	0
Zn	67	1.749	ug/L	0.110	6	145	722	4
Zn	68	1.627	ug/L	0.080	4	8019	9149	1
As-1	75	172.077	ug/L	0.921	0	-39	304758	0
As	75	171.019	ug/L	0.938	0	8849	312504	0
Se	82	0.057	ug/L	0.012	21	-12	0	389
Se	78	0.276	ug/L	0.067	24	9032	7880	0
[ Mo	98	-0.041	ug/L	0.006	13	1392	940	4
Y	89		ug/L			310463	277476	0
Kr	83		ug/L			81	64	2
> In	115		ug/L			464469	412241	1
Ag	107	0.001	ug/L	0.001	34	27	42	14
Cd	111	0.003	ug/L	0.001	24	218	204	2
Cd	114	-0.000	ug/L	0.001	358	68	57	17
Sb	121	0.012	ug/L	0.002	15	25	166	12
Sb	123	0.012	ug/L	0.001	12	20	120	9
Ba	135	0.084	ug/L	0.007	7	15	239	6
Ba	137	0.087	ug/L	0.007	7	22	414	8
> Tb	159		ug/L			467702	450360	1
Tl	205	0.000	ug/L	0.000	45	34	47	13
Pb	208	0.010	ug/L	0.000	1	244	692	1
Bi	209		ug/L			375879	343235	0
Th	232	0.003	ug/L	0.000	17	177	349	7
[ U	238	0.001	ug/L	0.000	24	29	89	16

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 L REN

Sample Dil Factor: 50

Comments:

Sample Date/Time: Tuesday, May 10, 2011 17:04:40

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	464365	0
[ Be	9	-0.002	ug/L	0.002	93	2	2	34
C	13		mg/L			5140	4069	1
Cl	37		mg/L			2489408	2248808	0
> Sc	45		ug/L			273386	243473	1
V-1	51	0.087	ug/L	0.014	15	2122	2905	3
V	51	0.071	ug/L	0.006	9	767	1531	3
Cr	52	0.044	ug/L	0.017	38	6539	6268	2
Cr	53	-0.002	ug/L	0.016	665	305	269	9
Mn	55	16.708	ug/L	0.185	1	899	290729	0
[ Co	59	0.027	ug/L	0.002	8	48	400	7
> Ge	72		ug/L			392434	335073	0
Ni	60	0.121	ug/L	0.012	9	47	376	7
Ni	62	0.027	ug/L	0.022	81	85	84	10
Cu	63	0.164	ug/L	0.014	8	279	1278	6
Cu	65	0.139	ug/L	0.009	6	93	501	5
Zn	66	1.735	ug/L	0.043	2	751	4065	1
Zn	67	1.555	ug/L	0.058	3	145	652	2
Zn	68	1.418	ug/L	0.178	12	8019	8811	1
As-1	75	179.501	ug/L	1.602	0	-39	316319	0
As	75	178.383	ug/L	1.595	0	8849	324007	0
Se	82	0.063	ug/L	0.035	56	-12	0	1390
Se	78	0.261	ug/L	0.010	3	9032	7833	0
[ Mo	98	-0.036	ug/L	0.007	20	1392	963	5
Y	89		ug/L			310463	276106	0
Kr	83		ug/L			81	67	4
> In	115		ug/L			464469	406441	0
Ag	107	0.001	ug/L	0.001	81	27	36	28
Cd	111	-0.002	ug/L	0.003	125	218	183	4
Cd	114	-0.005	ug/L	0.001	17	68	20	33
Sb	121	0.011	ug/L	0.000	2	25	144	2
Sb	123	0.011	ug/L	0.002	22	20	111	19
Ba	135	0.040	ug/L	0.004	8	15	119	7
[ Ba	137	0.040	ug/L	0.003	7	22	198	7
> Tb	159		ug/L			467702	447342	1
Tl	205	0.000	ug/L	0.000	64	34	46	18
Pb	208	0.005	ug/L	0.000	8	244	432	2
[ Bi	209		ug/L			375879	341376	0
Th	232	0.001	ug/L	0.000	32	177	237	10
U	238	0.001	ug/L	0.000	25	29	106	18



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 I REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 17:11:14

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\051011.cal

*ren*  
*CT*

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	466989	1
[ Be	9	0.013	ug/L	0.005	35	2	8	24
C	13		mg/L			5140	6558	3
Cl	37		mg/L			2489408	2539793	1
> Sc	45		ug/L			273386	335195	2
V-1	51	5.082	ug/L	0.084	1	2122	84155	0
V	51	5.134	ug/L	0.071	1	767	85337	1
Cr	52	1.898	ug/L	0.009	0	6539	34684	2
Cr	53	2.288	ug/L	0.040	1	305	4297	4
Mn	55	515.947	ug/L	2.187	0	899	12328661	2
[ Co	59	0.317	ug/L	0.004	1	48	5928	3
> Ge	72		ug/L			392434	341176	1
Ni	60	1.255	ug/L	0.044	3	47	3587	5
Ni	62	0.609	ug/L	0.037	6	85	336	4
Cu	63	1.656	ug/L	0.027	1	279	10926	3
Cu	65	0.305	ug/L	0.014	4	93	1025	5
Zn	66	0.993	ug/L	0.009	0	751	2648	2
Zn	67	1.663	ug/L	0.033	1	145	702	2
Zn	68	1.475	ug/L	0.131	8	8019	9053	1
As-1	75	0.520	ug/L	0.026	5	-39	899	6
As	75	0.271	ug/L	0.067	24	8849	8181	0
Se	82	1.401	ug/L	0.084	6	-12	243	8
Se	78	0.438	ug/L	0.262	59	9032	8059	0
[ Mo	98	-0.005	ug/L	0.004	87	1392	1179	3
Y	89		ug/L			310463	286967	1
Kr	83		ug/L			81	72	1
> In	115		ug/L			464469	404485	1
[ Ag	107	0.009	ug/L	0.002	20	27	140	18
Cd	111	-0.043	ug/L	0.018	41	218	50	116
Cd	114	-0.002	ug/L	0.001	57	68	45	19
Sb	121	0.042	ug/L	0.003	5	25	504	6
Sb	123	0.040	ug/L	0.002	6	20	363	5
Ba	135	8.980	ug/L	0.107	1	15	23673	1
[ Ba	137	9.020	ug/L	0.054	0	22	40362	1
> Tb	159		ug/L			467702	436129	1
Tl	205	0.003	ug/L	0.001	30	34	125	21
[ Pb	208	0.049	ug/L	0.003	5	244	2302	5
Bi	209		ug/L			375879	318989	0
Th	232	0.020	ug/L	0.001	6	177	1359	6
[ U	238	0.047	ug/L	0.001	1	29	3092	1

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 J REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 17:17:44

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> LI	6		ug/L			477376	440308	1
[ Be	9	0.012	ug/L	0.005	37	2	7	24
C	13		mg/L			5140	7137	2
Cl	37		mg/L			2489408	2494736	0
> Sc	45		ug/L			273386	308502	1
V-1	51	4.715	ug/L	0.044	0	2122	72039	0
V	51	4.717	ug/L	0.056	1	767	72243	0
Cr	52	0.529	ug/L	0.016	2	6539	14214	0
Cr	53	0.842	ug/L	0.048	5	305	1671	3
Mn	55	621.257	ug/L	6.064	0	899	13661717	0
[ Co	59	2.130	ug/L	0.024	1	48	36370	1
> Ge	72		ug/L			392434	327801	0
NI	60	3.230	ug/L	0.088	2	47	8802	2
NI	62	2.378	ug/L	0.102	4	85	1055	3
Cu	63	2.101	ug/L	0.030	1	279	13253	0
Cu	65	0.873	ug/L	0.005	0	93	2671	0
Zn	66	4.331	ug/L	0.059	1	751	8988	1
Zn	67	5.032	ug/L	0.141	2	145	1795	1
Zn	68	5.184	ug/L	0.139	2	8019	13728	1
As-1	75	10.422	ug/L	0.084	0	-39	17937	1
As	75	10.086	ug/L	0.133	1	8849	24897	1
Se	82	1.940	ug/L	0.045	2	-12	328	3
Se	78	0.896	ug/L	0.186	20	9032	7952	0
[ Mo	98	7.587	ug/L	0.095	1	1392	47535	0
Y	89		ug/L			310463	280774	1
Kr	83		ug/L			81	72	0
> In	115		ug/L			464469	385317	0
Ag	107	0.006	ug/L	0.000	8	27	90	6
Cd	111	-0.046	ug/L	0.026	55	218	39	197
Cd	114	0.014	ug/L	0.001	7	68	156	4
Sb	121	1.556	ug/L	0.036	2	25	16895	1
Sb	123	1.555	ug/L	0.018	1	20	12754	0
Ba	135	47.869	ug/L	0.464	0	15	120151	0
[ Ba	137	48.132	ug/L	0.546	1	22	205068	0
> Tb	159		ug/L			467702	408524	0
TI	205	0.006	ug/L	0.000	6	34	200	4
Pb	208	0.042	ug/L	0.001	1	244	1897	1
BI	209		ug/L			375879	302910	1
Th	232	0.020	ug/L	0.001	5	177	1310	4
[ U	238	2.356	ug/L	0.014	0	29	144148	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV5

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 17:24:16

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\051011.ca

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	460890	1
[ Be	9	47.775	ug/L	0.904	1	2	21932	1
C	13		mg/L			5140	3781	2
Cl	37		mg/L			2489408	2272475	0
> Sc	45		ug/L			273386	234291	0
V-1	51	50.081	ug/L	0.033	0	2122	563665	0
V	51	49.946	ug/L	0.207	0	767	574710	0
Cr	52	49.897	ug/L	0.425	0	6539	495683	0
Cr	53	49.493	ug/L	0.275	0	305	59544	0
Mn	55	50.915	ug/L	0.459	0	899	851079	0
Co	59	49.659	ug/L	0.230	0	48	643142	0
> Ge	72		ug/L			392434	323737	0
Ni	60	51.611	ug/L	0.321	0	47	138326	0
Ni	62	51.078	ug/L	0.312	0	85	20951	1
Cu	63	51.485	ug/L	0.564	1	279	315359	1
Cu	65	51.265	ug/L	0.193	0	93	150506	0
Zn	66	50.943	ug/L	0.295	0	751	97747	0
Zn	67	50.910	ug/L	0.660	1	145	16849	0
Zn	68	51.000	ug/L	0.454	0	8019	74924	0
As-1	75	50.542	ug/L	0.174	0	-39	86032	0
As	75	50.356	ug/L	0.317	0	8849	93610	0
Se	82	53.164	ug/L	0.492	0	-12	9160	1
Se	78	52.370	ug/L	0.496	0	9032	31011	0
Mo	98	51.569	ug/L	0.347	0	1392	312462	0
Y	89		ug/L			310463	261976	0
Kr	83		ug/L			81	76	2
> In	115		ug/L			464469	389354	1
Ag	107	49.980	ug/L	0.868	1	27	603074	0
Cd	111	50.626	ug/L	0.684	1	218	157323	0
Cd	114	50.969	ug/L	0.903	1	68	377632	0
Sb	121	50.985	ug/L	0.764	1	25	558738	0
Sb	123	50.990	ug/L	0.853	1	20	422014	0
Ba	135	50.260	ug/L	0.951	1	15	127451	0
Ba	137	50.451	ug/L	0.861	1	22	217169	0
> Tb	159		ug/L			467702	422969	0
Tl	205	45.563	ug/L	0.471	1	34	1382548	0
Pb	208	46.673	ug/L	0.208	0	244	1921059	0
Bi	209		ug/L			375879	324675	0
Th	232	48.291	ug/L	0.208	0	177	2865990	0
U	238	49.512	ug/L	0.093	0	29	3136427	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB5

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 17:31:28

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	478228	0
[ Be	9	0.001	ug/L	0.003	350	2	3	43
C	13		mg/L			5140	3944	2
Cl	37		mg/L			2489408	2312845	0
> Sc	45		ug/L			273386	242855	1
V-1	51	0.010	ug/L	0.007	70	2122	2000	5
V	51	-0.009	ug/L	0.001	14	767	570	3
Cr	52	0.015	ug/L	0.006	41	6539	5961	2
Cr	53	-0.044	ug/L	0.012	26	305	216	5
Mn	55	0.016	ug/L	0.004	23	899	1080	5
Co	59	0.005	ug/L	0.000	7	48	104	4
> Ge	72		ug/L			392434	336045	0
Ni	60	0.004	ug/L	0.005	118	47	52	26
Ni	62	0.002	ug/L	0.031	2007	85	74	17
Cu	63	-0.004	ug/L	0.000	11	279	215	1
Cu	65	0.001	ug/L	0.005	540	93	82	16
Zn	66	-0.243	ug/L	0.005	2	751	162	5
Zn	67	-0.214	ug/L	0.012	5	145	51	8
Zn	68	-0.609	ug/L	0.042	6	8019	6019	0
As-1	75	-0.008	ug/L	0.014	180	-39	-47	52
As	75	0.059	ug/L	0.024	40	8849	7682	0
Se	82	0.072	ug/L	0.043	60	-12	2	366
Se	78	0.311	ug/L	0.114	36	9032	7879	0
Mo	98	-0.169	ug/L	0.001	0	1392	132	6
Y	89		ug/L			310463	276675	0
Kr	83		ug/L			81	67	9
> In	115		ug/L			464469	410125	0
Ag	107	0.010	ug/L	0.002	14	27	155	12
Cd	111	0.004	ug/L	0.005	118	218	207	8
Cd	114	-0.003	ug/L	0.001	35	68	36	23
Sb	121	0.013	ug/L	0.003	21	25	175	18
Sb	123	0.012	ug/L	0.000	2	20	125	2
Ba	135	0.004	ug/L	0.002	61	15	23	27
Ba	137	0.006	ug/L	0.001	20	22	44	11
> Tb	159		ug/L			467702	439425	0
Tl	205	0.004	ug/L	0.000	8	34	164	7
Pb	208	0.004	ug/L	0.001	22	244	412	9
Bi	209		ug/L			375879	339343	0
Th	232	0.042	ug/L	0.003	7	177	2750	7
U	238	0.005	ug/L	0.001	13	29	388	13

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 D REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 17:41:56

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	470251	1
[ Be	9	0.012	ug/L	0.011	92	2	8	60
C	13		mg/L			5140	6142	0
Cl	37		mg/L			2489408	2276890	0
> Sc	45		ug/L			273386	328835	1
V-1	51	1.581	ug/L	0.047	2	2122	27445	0
V	51	1.585	ug/L	0.036	2	767	26480	1
Cr	52	0.304	ug/L	0.026	8	6539	12053	1
Cr	53	0.408	ug/L	0.029	7	305	1053	6
Mn	55	219.665	ug/L	2.364	1	899	5149253	0
[ Co	59	0.089	ug/L	0.004	4	48	1673	6
> Ge	72		ug/L			392434	340296	1
Ni	60	0.996	ug/L	0.042	4	47	2848	4
Ni	62	0.260	ug/L	0.024	9	85	186	6
Cu	63	1.981	ug/L	0.049	2	279	12987	1
Cu	65	1.802	ug/L	0.050	2	93	5637	1
Zn	66	0.931	ug/L	0.016	1	751	2517	2
Zn	67	0.937	ug/L	0.052	5	145	449	2
Zn	68	1.244	ug/L	0.052	4	8019	8705	1
As-1	75	465.139	ug/L	3.130	0	-39	832502	0
As	75	462.056	ug/L	3.103	0	8849	840132	0
Se	82	0.273	ug/L	0.034	12	-12	38	15
Se	78	0.060	ug/L	0.022	36	9032	7860	1
[ Mo	98	-0.042	ug/L	0.003	6	1392	941	1
Y	89		ug/L			310463	277740	0
Kr	83		ug/L			81	63	3
> In	115		ug/L			464469	405176	0
Ag	107	0.008	ug/L	0.001	17	27	122	13
Cd	111	0.018	ug/L	0.008	43	218	248	10
Cd	114	0.006	ug/L	0.001	10	68	106	4
Sb	121	0.051	ug/L	0.004	8	25	602	8
Sb	123	0.052	ug/L	0.001	1	20	462	2
Ba	135	0.891	ug/L	0.026	2	15	2364	2
[ Ba	137	0.868	ug/L	0.039	4	22	3909	3
> Tb	159		ug/L			467702	440750	0
Tl	205	0.002	ug/L	0.000	9	34	101	6
Pb	208	0.045	ug/L	0.001	1	244	2141	0
Bi	209		ug/L			375879	329259	1
Th	232	0.050	ug/L	0.005	9	177	3250	9
[ U	238	0.003	ug/L	0.000	14	29	248	13

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 D REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Tuesday, May 10, 2011 17:48:28

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\051011.cal

AS

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	471575	1
[ Be	9	0.002	ug/L	0.003	146	2	3	33
C	13		mg/L			5140	4642	0
Cl	37		mg/L			2489408	2231922	0
> Sc	45		ug/L			273386	255138	0
V-1	51	0.395	ug/L	0.007	1	2122	6803	1
V	51	0.381	ug/L	0.011	2	767	5489	2
Cr	52	0.088	ug/L	0.008	9	6539	7046	1
Cr	53	0.070	ug/L	0.012	17	305	376	4
Mn	55	53.746	ug/L	0.355	0	899	978261	0
Co	59	0.023	ug/L	0.002	8	48	375	7
> Ge	72		ug/L			392434	331731	0
Ni	60	0.201	ug/L	0.013	6	47	591	5
Ni	62	0.044	ug/L	0.015	34	85	90	6
Cu	63	0.419	ug/L	0.006	1	279	2862	1
Cu	65	0.397	ug/L	0.018	4	93	1271	4
Zn	66	0.097	ug/L	0.014	14	751	825	2
Zn	67	0.080	ug/L	0.017	21	145	149	3
Zn	68	-0.160	ug/L	0.089	55	8019	6559	1
As-1	75	95.949	ug/L	0.465	0	-39	167386	0
As	75	95.318	ug/L	0.463	0	8849	174893	0
Se	82	0.112	ug/L	0.048	43	-12	9	93
Se	78	0.081	ug/L	0.145	179	9032	7672	0
Mo	98	-0.154	ug/L	0.003	1	1392	223	8
Y	89		ug/L			310463	273592	0
Kr	83		ug/L			81	66	7
> In	115		ug/L			464469	401566	1
Ag	107	0.003	ug/L	0.001	28	27	57	15
Cd	111	0.004	ug/L	0.004	99	218	201	6
Cd	114	-0.004	ug/L	0.001	20	68	32	16
Sb	121	0.012	ug/L	0.001	6	25	155	6
Sb	123	0.012	ug/L	0.002	14	20	116	11
Ba	135	0.182	ug/L	0.007	3	15	490	4
Ba	137	0.177	ug/L	0.009	5	22	805	4
> Tb	159		ug/L			467702	441826	0
Tl	205	0.001	ug/L	0.000	16	34	72	9
Pb	208	0.013	ug/L	0.000	1	244	777	0
Bi	209		ug/L			375879	336283	0
Th	232	0.006	ug/L	0.000	5	177	560	4
U	238	0.001	ug/L	0.000	19	29	118	15

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 F REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 17:54:59

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			477376	413138	6
[ Be	9	0.005	ug/L	0.008	179	2	4	83
C	13		mg/L			5140	6355	3
Cl	37		mg/L			2489408	2326879	2
[> Sc	45		ug/L			273386	278887	8
V-1	51	1.115	ug/L	0.020	1	2122	17048	7
V	51	1.170	ug/L	0.021	1	767	16790	7
Cr	52	0.446	ug/L	0.022	4	6539	11867	5
Cr	53	0.664	ug/L	0.016	2	305	1258	7
Mn	55	158.946	ug/L	1.968	1	899	3159047	7
Co	59	0.394	ug/L	0.011	2	48	6112	6
[> Ge	72		ug/L			392434	308387	5
Ni	60	2.992	ug/L	0.143	4	47	7686	10
Ni	62	1.788	ug/L	0.133	7	85	765	11
Cu	63	1.494	ug/L	0.044	2	279	8933	6
Cu	65	0.636	ug/L	0.024	3	93	1854	8
Zn	66	0.488	ug/L	0.041	8	751	1476	7
Zn	67	0.657	ug/L	0.065	9	145	320	11
Zn	68	0.865	ug/L	0.264	30	8019	7394	1
As-1	75	15.533	ug/L	0.182	1	-39	25163	5
As	75	15.742	ug/L	0.317	2	8849	32642	4
Se	82	0.439	ug/L	0.044	10	-12	62	17
Se	78	1.645	ug/L	0.859	52	9032	7789	0
Mo	98	6.031	ug/L	0.208	3	1392	35769	5
Y	89		ug/L			310463	254445	6
Kr	83		ug/L			81	70	1
[> In	115		ug/L			464469	357243	6
Ag	107	0.004	ug/L	0.001	24	27	64	11
Cd	111	-0.003	ug/L	0.012	378	218	159	27
Cd	114	0.013	ug/L	0.002	16	68	140	6
Sb	121	0.152	ug/L	0.004	2	25	1549	8
Sb	123	0.153	ug/L	0.007	4	20	1175	6
Ba	135	11.249	ug/L	0.091	0	15	26182	5
[ Ba	137	11.368	ug/L	0.160	1	22	44898	4
[> Tb	159		ug/L			467702	389121	5
Tl	205	0.002	ug/L	0.000	16	34	80	5
Pb	208	0.016	ug/L	0.001	5	244	804	3
Bi	209		ug/L			375879	289109	5
Th	232	0.014	ug/L	0.002	12	177	917	15
[ U	238	0.149	ug/L	0.002	1	29	8713	4

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 G REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 18:01:31

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	381662	0
Be	9	0.011	ug/L	0.002	15	2	6	10
C	13		mg/L			5140	6623	0
Cl	37		mg/L			2489408	2095307	3
> Sc	45		ug/L			273386	268689	0
V-1	51	3.376	ug/L	0.013	0	2122	45523	1
V	51	3.352	ug/L	0.015	0	767	44934	1
Cr	52	0.840	ug/L	0.012	1	6539	15891	1
Cr	53	0.952	ug/L	0.044	4	305	1607	3
Mn	55	366.705	ug/L	1.436	0	899	7024298	1
Co	59	0.210	ug/L	0.005	2	48	3171	2
> Ge	72		ug/L			392434	297646	0
Ni	60	1.204	ug/L	0.045	3	47	3002	3
Ni	62	0.618	ug/L	0.046	7	85	297	5
Cu	63	1.519	ug/L	0.018	1	279	8757	1
Cu	65	0.916	ug/L	0.038	4	93	2541	4
Zn	66	0.556	ug/L	0.018	3	751	1545	2
Zn	67	0.868	ug/L	0.019	2	145	372	1
Zn	68	1.458	ug/L	0.160	11	8019	7878	2
As-1	75	953.466	ug/L	8.487	0	-39	1492748	1
As	75	947.711	ug/L	8.453	0	8849	1500239	1
Se	82	0.365	ug/L	0.026	7	-12	48	8
Se	78	2.200	ug/L	0.091	4	9032	7761	0
Mo	98	0.061	ug/L	0.007	10	1392	1395	3
Y	89		ug/L			310463	235257	0
Kr	83		ug/L			81	68	4
> In	115		ug/L			464469	337909	1
Ag	107	0.007	ug/L	0.001	11	27	97	8
Cd	111	0.010	ug/L	0.009	87	218	185	11
Cd	114	0.024	ug/L	0.002	8	68	205	6
Sb	121	0.087	ug/L	0.003	3	25	841	2
Sb	123	0.089	ug/L	0.006	6	20	655	7
Ba	135	2.923	ug/L	0.008	0	15	6445	1
Ba	137	2.970	ug/L	0.029	0	22	11112	0
> Tb	159		ug/L			467702	364618	0
Tl	205	0.001	ug/L	0.000	12	34	57	7
Pb	208	0.052	ug/L	0.001	2	244	2019	3
Bi	209		ug/L			375879	279162	1
Th	232	0.015	ug/L	0.001	4	177	915	5
U	238	0.005	ug/L	0.000	5	29	321	5



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 G REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Tuesday, May 10, 2011 18:08:04

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\051011.cal

AS

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	383818	2
[ Be	9	0.009	ug/L	0.009	102	2	5	61
C	13		mg/L			5140	4864	1
Cl	37		mg/L			2489408	1946643	1
> Sc	45		ug/L			273386	202954	3
V-1	51	0.861	ug/L	0.021	2	2122	9947	5
V	51	0.836	ug/L	0.019	2	767	8899	5
Cr	52	0.256	ug/L	0.018	7	6539	7033	3
Cr	53	0.225	ug/L	0.010	4	305	459	1
Mn	55	90.171	ug/L	0.604	0	899	1305044	2
[ Co	59	0.049	ug/L	0.002	3	48	587	1
> Ge	72		ug/L			392434	277756	2
Ni	60	0.246	ug/L	0.003	1	47	600	2
Ni	62	0.128	ug/L	0.036	28	85	105	12
Cu	63	0.307	ug/L	0.012	3	279	1810	4
Cu	65	0.192	ug/L	0.020	10	93	549	11
Zn	66	-0.046	ug/L	0.029	63	751	456	10
Zn	67	0.057	ug/L	0.072	126	145	118	18
Zn	68	0.412	ug/L	0.048	11	8019	6148	1
As-1	75	196.883	ug/L	2.260	1	-39	287652	3
As	75	196.263	ug/L	2.220	1	8849	294923	3
Se	82	0.138	ug/L	0.052	37	-12	11	67
Se	78	2.735	ug/L	0.190	6	9032	7447	1
[ Mo	98	-0.134	ug/L	0.003	2	1392	293	6
Y	89		ug/L			310463	224561	3
Kr	83		ug/L			81	68	4
> In	115		ug/L			464469	324732	2
Ag	107	0.003	ug/L	0.001	18	27	47	10
Cd	111	0.003	ug/L	0.006	187	218	160	10
Cd	114	0.001	ug/L	0.002	169	68	55	24
Sb	121	0.024	ug/L	0.000	0	25	236	3
Sb	123	0.022	ug/L	0.000	1	20	162	2
Ba	135	0.609	ug/L	0.018	2	15	1298	0
[ Ba	137	0.616	ug/L	0.012	1	22	2224	0
> Tb	169		ug/L			467702	353770	3
Tl	205	0.002	ug/L	0.000	7	34	65	6
Pb	208	0.012	ug/L	0.001	6	244	613	2
Bi	209		ug/L			375879	275158	3
Th	232	0.002	ug/L	0.000	4	177	257	5
[ U	238	0.002	ug/L	0.000	16	29	124	11

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 J REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 18:14:37

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	375200	0
[ Be	9	0.006	ug/L	0.005	82	2	4	41
C	13		mg/L			5140	5982	1
Cl	37		mg/L			2489408	1941546	0
> Sc	45		ug/L			273386	247429	1
V-1	51	1.702	ug/L	0.024	1	2122	22082	0
V	51	1.698	ug/L	0.020	1	767	21304	0
Cr	52	0.359	ug/L	0.020	5	6539	9641	1
Cr	53	0.446	ug/L	0.018	4	305	840	3
Mn	55	226.837	ug/L	2.616	1	899	4001221	0
[ Co	59	0.094	ug/L	0.002	2	48	1325	3
> Ge	72		ug/L			392434	274141	0
Ni	60	0.802	ug/L	0.022	2	47	1853	2
Ni	62	0.281	ug/L	0.035	12	85	157	7
Cu	63	1.923	ug/L	0.045	2	279	10163	2
Cu	65	1.744	ug/L	0.034	1	93	4398	2
Zn	66	1.617	ug/L	0.024	1	751	3134	1
Zn	67	1.674	ug/L	0.051	3	145	567	2
Zn	68	2.677	ug/L	0.128	4	8019	8638	1
As-1	75	481.449	ug/L	1.563	0	-39	694206	0
As	75	479.003	ug/L	1.513	0	8849	701432	0
Se	82	0.248	ug/L	0.027	10	-12	27	14
Se	78	2.965	ug/L	0.167	5	9032	7439	0
[ Mo	98	-0.037	ug/L	0.007	17	1392	782	4
Y	89		ug/L			310463	222743	0
Kr	83		ug/L			81	66	5
> In	115		ug/L			464469	319918	0
Ag	107	0.003	ug/L	0.001	29	27	53	19
Cd	111	0.017	ug/L	0.009	52	218	193	11
Cd	114	0.019	ug/L	0.002	13	68	162	9
Sb	121	0.055	ug/L	0.002	3	25	515	3
Sb	123	0.059	ug/L	0.004	6	20	416	6
Ba	135	0.943	ug/L	0.030	3	15	1974	3
[ Ba	137	0.961	ug/L	0.008	0	22	3415	0
> Tb	159		ug/L			467702	348880	0
Tl	205	0.002	ug/L	0.000	13	34	73	8
Pb	208	0.054	ug/L	0.002	3	244	2007	3
Bi	209		ug/L			375879	268507	0
Th	232	0.009	ug/L	0.001	8	177	570	6
[ U	238	0.004	ug/L	0.000	13	29	209	11

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 N REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 18:21:11

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\051011.cal

*Be*

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	378759	1
[ Be	9	0.017	ug/L	0.009	51	2	8	37
C	13		mg/L			5140	6480	1
Cl	37		mg/L			2489408	1922817	0
> Sc	45		ug/L			273386	248499	1
V-1	51	1.534	ug/L	0.041	2	2122	20178	1
V	51	1.521	ug/L	0.029	1	767	19234	0
Cr	52	0.363	ug/L	0.003	0	6539	9729	0
Cr	53	0.409	ug/L	0.036	8	305	797	6
Mn	55	219.770	ug/L	2.855	1	899	3893326	0
[ Co	59	0.091	ug/L	0.001	0	48	1300	0
> Ge	72		ug/L			392434	271960	1
Ni	60	0.802	ug/L	0.017	2	47	1839	1
Ni	62	0.300	ug/L	0.007	2	85	162	0
Cu	63	0.351	ug/L	0.010	2	279	1997	3
Cu	65	0.195	ug/L	0.009	4	93	545	5
Zn	66	0.707	ug/L	0.015	2	751	1653	0
Zn	67	0.857	ug/L	0.022	2	145	337	2
Zn	68	1.736	ug/L	0.157	9	8019	7509	1
As-1	75	451.597	ug/L	1.427	0	-39	645965	0
As	75	449.311	ug/L	1.473	0	8849	653082	0
Se	82	0.337	ug/L	0.024	7	-12	40	7
Se	78	2.909	ug/L	0.249	8	9032	7358	0
[ Mo	98	-0.066	ug/L	0.001	1	1392	631	0
Y	89		ug/L			310463	222039	1
Kr	83		ug/L			81	65	3
> In	115		ug/L			464469	318393	1
Ag	107	0.002	ug/L	0.001	42	27	35	19
Cd	111	0.010	ug/L	0.004	38	218	175	6
Cd	114	0.005	ug/L	0.001	28	68	76	11
Sb	121	0.050	ug/L	0.003	5	25	464	5
Sb	123	0.049	ug/L	0.001	3	20	342	2
Ba	135	0.779	ug/L	0.028	3	15	1626	3
[ Ba	137	0.793	ug/L	0.021	2	22	2806	1
> Tb	159		ug/L			467702	347891	0
Tl	205	0.001	ug/L	0.000	28	34	49	14
Pb	208	0.010	ug/L	0.000	4	244	503	3
Bi	209		ug/L			375879	269026	1
Th	232	0.007	ug/L	0.000	2	177	452	0
[ U	238	0.003	ug/L	0.000	10	29	167	9

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 N REN

Sample Dil Factor: 10

Comments:

Sample Date/Time: Tuesday, May 10, 2011 18:27:45

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: C:\Elandata\Caldata\051011.cal

AS

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	378236	1
[ Be	9	0.006	ug/L	0.005	84	2	4	41
C	13		mg/L			5140	4393	0
Cl	37		mg/L			2489408	1886982	0
> Sc	45		ug/L			273386	196763	0
V-1	51	0.374	ug/L	0.000	0	2122	5053	0
V	51	0.365	ug/L	0.003	0	767	4078	1
Cr	52	0.121	ug/L	0.006	5	6539	5703	0
Cr	53	0.112	ug/L	0.009	7	305	332	2
Mn	55	52.850	ug/L	0.358	0	899	741888	0
[ Co	59	0.024	ug/L	0.001	5	48	299	4
> Ge	72		ug/L			392434	265385	0
Ni	60	0.154	ug/L	0.027	17	47	370	16
Ni	62	0.093	ug/L	0.064	68	85	89	23
Cu	63	0.094	ug/L	0.005	5	279	660	4
Cu	65	0.069	ug/L	0.005	6	93	229	4
Zn	66	0.035	ug/L	0.007	18	751	563	1
Zn	67	0.074	ug/L	0.013	17	145	117	3
Zn	68	0.530	ug/L	0.082	15	8019	6005	0
As-1	75	92.074	ug/L	0.690	0	-39	128496	0
As	75	92.163	ug/L	0.745	0	8849	135476	0
Se	82	0.165	ug/L	0.030	18	-12	14	27
Se	78	2.801	ug/L	0.243	8	9032	7141	0
[ Mo	98	-0.150	ug/L	0.004	2	1392	197	9
Y	89		ug/L			310463	219024	0
Kr	83		ug/L			81	58	7
> In	115		ug/L			464469	315553	1
Ag	107	0.001	ug/L	0.000	84	27	23	17
Cd	111	0.004	ug/L	0.007	178	218	158	10
Cd	114	-0.004	ug/L	0.001	15	68	21	17
Sb	121	0.011	ug/L	0.001	6	25	112	4
Sb	123	0.010	ug/L	0.001	14	20	78	12
Ba	135	0.166	ug/L	0.016	9	15	351	9
[ Ba	137	0.162	ug/L	0.007	4	22	579	4
> Tb	159		ug/L			467702	349579	0
Tl	205	0.001	ug/L	0.000	51	34	45	23
Pb	208	0.006	ug/L	0.001	22	244	390	12
Bi	209		ug/L			375879	270171	0
Th	232	0.001	ug/L	0.000	9	177	200	2
[ U	238	0.001	ug/L	0.000	13	29	78	10

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 Q REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 18:34:19

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\Caldat\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	364675	1
[ Be	9	0.002	ug/L	0.004	209	2	2	49
C	13		mg/L			5140	7375	1
Cl	37		mg/L			2489408	1946612	0
> Sc	45		ug/L			273386	251757	1
V-1	51	3.426	ug/L	0.069	2	2122	43243	0
V	51	3.394	ug/L	0.076	2	767	42609	0
Cr	52	0.911	ug/L	0.026	2	6539	15633	0
Cr	53	0.997	ug/L	0.049	4	305	1564	2
Mn	55	392.338	ug/L	7.448	1	899	7040135	0
[ Co	59	0.224	ug/L	0.004	1	48	3167	1
> Ge	72		ug/L			392434	273841	0
Ni	60	1.275	ug/L	0.018	1	47	2922	1
Ni	62	0.643	ug/L	0.044	6	85	282	5
Cu	63	0.994	ug/L	0.032	3	279	5342	3
Cu	65	0.378	ug/L	0.017	4	93	1003	4
Zn	66	0.550	ug/L	0.056	10	751	1412	6
Zn	67	0.769	ug/L	0.090	11	145	315	8
Zn	68	1.593	ug/L	0.053	3	8019	7400	0
As-1	75	1031.183	ug/L	1.439	0	-39	1485279	0
As	75	1025.132	ug/L	1.403	0	8849	1492477	0
Se	82	0.343	ug/L	0.053	15	-12	41	18
Se	78	2.984	ug/L	0.114	3	9032	7438	0
[ Mo	98	0.051	ug/L	0.007	14	1392	1234	2
Y	89		ug/L			310463	219449	1
Kr	83		ug/L			81	63	4
> In	115		ug/L			464469	316534	1
Ag	107	0.006	ug/L	0.001	25	27	72	20
Cd	111	-0.007	ug/L	0.006	84	218	129	11
Cd	114	0.003	ug/L	0.002	71	68	63	19
Sb	121	0.084	ug/L	0.001	0	25	768	2
Sb	123	0.084	ug/L	0.004	5	20	580	4
Ba	135	3.065	ug/L	0.044	1	15	6328	0
[ Ba	137	3.065	ug/L	0.025	0	22	10741	1
> Tb	159		ug/L			467702	339561	0
Tl	205	0.001	ug/L	0.000	13	34	45	5
Pb	208	0.024	ug/L	0.001	3	244	978	2
Bi	209		ug/L			375879	259060	0
Th	232	0.009	ug/L	0.000	5	177	537	4
[ U	238	0.005	ug/L	0.000	3	29	257	3

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 Q REN

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, May 10, 2011 18:40:55

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\051011.cal

AS

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	381300	1
[ Be	9	-0.001	ug/L	0.005	837	2	2	91
C	13		mg/L			5140	4354	3
Cl	37		mg/L			2489408	1889822	0
> Sc	45		ug/L			273386	193032	0
V-1	51	0.458	ug/L	0.010	2	2122	5735	2
V	51	0.436	ug/L	0.003	0	767	4672	0
Cr	52	0.159	ug/L	0.040	24	6539	5903	5
Cr	53	0.113	ug/L	0.003	2	305	327	1
Mn	55	50.814	ug/L	0.243	0	899	699805	0
[ Co	59	0.025	ug/L	0.002	7	48	303	6
> Ge	72		ug/L			392434	270188	0
Ni	60	0.146	ug/L	0.015	10	47	359	9
Ni	62	0.111	ug/L	0.025	22	85	97	8
Cu	63	0.109	ug/L	0.006	5	279	748	4
Cu	65	0.056	ug/L	0.002	3	93	201	2
Zn	66	-0.047	ug/L	0.017	35	751	442	5
Zn	67	0.007	ug/L	0.011	168	145	101	2
Zn	68	0.364	ug/L	0.083	22	8019	5928	1
As-1	75	106.156	ug/L	0.658	0	-39	150837	0
As	75	106.079	ug/L	0.678	0	8849	157840	0
Se	82	0.077	ug/L	0.002	3	-12	2	14
Se	78	2.463	ug/L	0.141	5	9032	7143	0
[ Mo	98	-0.159	ug/L	0.005	3	1392	157	17
Y	89		ug/L			310463	220732	0
Kr	83		ug/L			81	62	3
> In	115		ug/L			464469	319798	1
Ag	107	-0.000	ug/L	0.000	1348	27	18	20
Cd	111	-0.004	ug/L	0.003	76	218	140	3
Cd	114	-0.005	ug/L	0.001	22	68	18	38
Sb	121	0.011	ug/L	0.001	11	25	117	10
Sb	123	0.010	ug/L	0.003	25	20	83	20
Ba	135	0.365	ug/L	0.012	3	15	770	2
[ Ba	137	0.371	ug/L	0.009	2	22	1326	1
> Tb	159		ug/L			467702	349674	0
Tl	205	0.001	ug/L	0.000	30	34	44	13
Pb	208	0.005	ug/L	0.000	3	244	365	2
Bi	209		ug/L			375879	271913	0
Th	232	0.000	ug/L	0.000	508	177	135	7
[ U	238	0.001	ug/L	0.000	13	29	81	10

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV6

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 18:47:29

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	376355	0
[ Be	9	48.671	ug/L	0.246	0	2	18246	0
C	13		mg/L			5140	3348	1
Cl	37		mg/L			2489408	1876659	0
> Sc	45		ug/L			273386	181673	0
V-1	51	51.079	ug/L	0.305	0	2122	445744	0
V	51	50.903	ug/L	0.152	0	767	454164	0
Cr	52	50.880	ug/L	0.212	0	6539	391843	0
Cr	53	50.354	ug/L	0.290	0	305	46970	1
Mn	55	50.731	ug/L	0.245	0	899	657543	0
[ Co	59	50.475	ug/L	0.697	1	48	506860	0
> Ge	72		ug/L			392434	261878	1
Ni	60	50.111	ug/L	0.909	1	47	108630	0
Ni	62	49.144	ug/L	0.483	0	85	16307	0
Cu	63	50.036	ug/L	0.588	1	279	247911	0
Cu	65	49.627	ug/L	0.795	1	93	117846	0
Zn	66	50.208	ug/L	0.751	1	751	77931	1
Zn	67	49.655	ug/L	0.790	1	145	13295	0
Zn	68	50.437	ug/L	0.587	1	8019	59995	0
As-1	75	49.983	ug/L	0.380	0	-39	68820	0
As	75	50.295	ug/L	0.390	0	8849	75636	0
Se	82	51.719	ug/L	0.510	0	-12	7208	0
Se	78	52.872	ug/L	0.607	1	9032	25267	0
[ Mo	98	51.771	ug/L	0.278	0	1392	253748	1
Y	89		ug/L			310463	214339	0
Kr	83		ug/L			81	66	7
> In	115		ug/L			464469	310918	0
Ag	107	50.072	ug/L	0.315	0	27	482555	0
Cd	111	50.302	ug/L	0.597	1	218	124848	1
Cd	114	50.940	ug/L	0.117	0	68	301449	0
Sb	121	51.383	ug/L	0.369	0	25	449723	0
Sb	123	51.363	ug/L	0.530	1	20	339512	0
Ba	135	50.183	ug/L	0.347	0	15	101641	0
[ Ba	137	50.952	ug/L	0.420	0	22	175169	0
> Tb	159		ug/L			467702	344598	0
Tl	205	45.474	ug/L	0.192	0	34	1124226	0
Pb	208	47.274	ug/L	0.219	0	244	1585274	0
Bi	209		ug/L			375879	265696	0
Th	232	49.387	ug/L	0.267	0	177	2387947	0
[ U	238	50.161	ug/L	0.283	0	29	2588723	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB6

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 18:54:42

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	389913	0
[ Be	9	0.000	ug/L	0.003	1089	2	2	50
C	13		mg/L			5140	3569	2
Cl	37		mg/L			2489408	1930185	0
> Sc	45		ug/L			273386	188214	0
V-1	51	0.017	ug/L	0.008	44	2122	1615	3
V	51	-0.004	ug/L	0.003	91	767	495	5
Cr	52	0.034	ug/L	0.004	10	6539	4767	0
Cr	53	-0.031	ug/L	0.017	54	305	180	9
Mn	55	0.007	ug/L	0.003	41	899	707	4
[ Co	59	0.004	ug/L	0.001	25	48	75	13
> Ge	72		ug/L			392434	268680	0
Ni	60	-0.001	ug/L	0.001	117	47	30	11
Ni	62	-0.006	ug/L	0.018	285	85	56	10
Cu	63	-0.007	ug/L	0.001	18	279	155	4
Cu	65	-0.003	ug/L	0.006	184	93	55	26
Zn	66	-0.257	ug/L	0.006	2	751	107	9
Zn	67	-0.198	ug/L	0.037	18	145	45	22
Zn	68	0.163	ug/L	0.091	56	8019	5671	1
As-1	75	0.027	ug/L	0.011	40	-39	10	142
As	75	0.609	ug/L	0.020	3	8849	6925	0
Se	82	0.018	ug/L	0.049	268	-12	-6	117
Se	78	2.310	ug/L	0.049	2	9032	7046	0
[ Mo	98	-0.176	ug/L	0.003	1	1392	73	17
Y	89		ug/L			310463	223173	0
Kr	83		ug/L			81	67	6
> In	115		ug/L			464469	325578	0
Ag	107	0.007	ug/L	0.002	25	27	90	20
Cd	111	-0.005	ug/L	0.002	41	218	140	3
Cd	114	-0.004	ug/L	0.002	42	68	21	53
Sb	121	0.012	ug/L	0.000	2	25	131	2
Sb	123	0.012	ug/L	0.002	15	20	94	13
Ba	135	0.006	ug/L	0.003	61	15	21	31
[ Ba	137	0.002	ug/L	0.001	63	22	23	21
> Tb	159		ug/L			467702	356526	0
Tl	205	0.003	ug/L	0.001	16	34	112	12
Pb	208	0.004	ug/L	0.000	5	244	319	1
Bi	209		ug/L			375879	278276	0
Th	232	0.036	ug/L	0.003	7	177	1933	6
[ U	238	0.004	ug/L	0.001	16	29	257	14



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU58 MB1 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 19:01:56

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	388090	0
[ Be	9	-0.002	ug/L	0.002	102	2	1	43
C	13		mg/L			5140	5188	2
Cl	37		mg/L			2489408	1918827	0
> Sc	45		ug/L			273386	187962	0
V-1	51	0.037	ug/L	0.003	9	2122	1796	1
V	51	0.001	ug/L	0.005	342	767	540	7
Cr	52	0.185	ug/L	0.015	8	6539	5957	2
Cr	53	0.064	ug/L	0.009	13	305	271	2
Mn	55	0.078	ug/L	0.002	2	899	1660	1
Co	59	0.004	ug/L	0.001	21	48	76	12
> Ge	72		ug/L			392434	266684	0
Ni	60	0.026	ug/L	0.006	23	47	90	16
Ni	62	0.043	ug/L	0.020	47	85	72	10
Cu	63	0.090	ug/L	0.003	2	279	641	1
Cu	65	0.096	ug/L	0.016	17	93	295	13
Zn	66	0.097	ug/L	0.031	31	751	663	6
Zn	67	0.039	ug/L	0.055	141	145	109	13
Zn	68	0.396	ug/L	0.099	25	8019	5886	1
As-1	75	0.031	ug/L	0.014	46	-39	16	123
As	75	0.696	ug/L	0.031	4	8849	6996	0
Se	82	0.109	ug/L	0.025	23	-12	6	51
Se	78	2.663	ug/L	0.135	5	9032	7124	0
Mo	98	-0.170	ug/L	0.005	2	1392	100	24
Y	89		ug/L			310463	222814	0
Kr	83		ug/L			81	59	0
> In	115		ug/L			464469	320290	1
Ag	107	0.002	ug/L	0.001	28	27	43	16
Cd	111	0.001	ug/L	0.002	285	218	152	2
Cd	114	-0.006	ug/L	0.001	17	68	10	61
Sb	121	0.007	ug/L	0.001	12	25	80	8
Sb	123	0.005	ug/L	0.002	45	20	50	32
Ba	135	0.038	ug/L	0.004	10	15	90	8
Ba	137	0.035	ug/L	0.009	24	22	139	22
> Tb	159		ug/L			467702	354355	0
Tl	205	0.002	ug/L	0.000	24	34	75	16
Pb	208	0.018	ug/L	0.001	6	244	809	5
Bi	209		ug/L			375879	275719	0
Th	232	0.017	ug/L	0.001	8	177	956	8
U	238	0.002	ug/L	0.000	21	29	123	18

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU58 MB2 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 19:08:32

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	387517	0
[ Be	9	0.001	ug/L	0.004	263	2	2	49
C	13		mg/L			5140	4741	3
Cl	37		mg/L			2489408	1906572	0
> Sc	45		ug/L			273386	186446	0
V-1	51	0.023	ug/L	0.011	48	2122	1652	5
V	51	-0.001	ug/L	0.001	224	767	517	2
Cr	52	0.096	ug/L	0.007	7	6539	5213	0
Cr	53	0.019	ug/L	0.027	142	305	226	12
Mn	55	0.033	ug/L	0.002	5	899	1051	2
[ Co	59	0.002	ug/L	0.001	46	48	55	19
> Ge	72		ug/L			392434	265127	0
Ni	60	0.013	ug/L	0.003	21	47	61	10
Ni	62	-0.009	ug/L	0.023	254	85	55	13
Cu	63	0.017	ug/L	0.001	4	279	275	1
Cu	65	0.020	ug/L	0.004	19	93	110	8
Zn	66	0.247	ug/L	0.026	10	751	893	4
Zn	67	0.255	ug/L	0.088	34	145	166	14
Zn	68	0.629	ug/L	0.076	12	8019	6107	1
As-1	75	0.012	ug/L	0.019	152	-39	-9	275
As	75	0.747	ug/L	0.036	4	8849	7027	0
Se	82	0.113	ug/L	0.050	44	-12	7	95
Se	78	2.929	ug/L	0.101	3	9032	7181	0
[ Mo	98	-0.178	ug/L	0.002	1	1392	60	17
Y	89		ug/L			310463	222442	0
Kr	83		ug/L			81	58	12
> In	115		ug/L			464469	319004	0
Ag	107	0.001	ug/L	0.001	39	27	32	16
Cd	111	-0.003	ug/L	0.006	228	218	142	11
Cd	114	-0.005	ug/L	0.001	16	68	16	30
Sb	121	0.002	ug/L	0.000	11	25	36	5
Sb	123	0.004	ug/L	0.000	10	20	38	6
Ba	135	0.028	ug/L	0.006	20	15	67	17
[ Ba	137	0.029	ug/L	0.002	7	22	116	6
> Tb	159		ug/L			467702	353456	1
Tl	205	0.001	ug/L	0.000	44	34	51	22
Pb	208	0.008	ug/L	0.001	14	244	466	8
Bi	209		ug/L			375879	273538	1
Th	232	0.003	ug/L	0.001	23	177	296	14
[ U	238	0.001	ug/L	0.000	19	29	82	15

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU58 MB2SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 19:15:08

Number of Replicates: 3

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

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

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

Calibration File: C:\Elandata\Caldata\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	387057	0
[ Be	9	25.016	ug/L	0.135	0	2	9646	1
C	13		mg/L			5140	5545	1
Cl	37		mg/L			2489408	1909477	0
> Sc	45		ug/L			273386	189608	0
V-1	51	26.705	ug/L	0.160	0	2122	243922	0
V	51	26.564	ug/L	0.161	0	767	247611	0
Cr	52	26.987	ug/L	0.426	1	6539	219038	0
Cr	53	26.534	ug/L	0.462	1	305	25931	1
Mn	55	27.225	ug/L	0.294	1	899	368575	0
[ Co	59	27.127	ug/L	0.367	1	48	284328	1
> Ge	72		ug/L			392434	266083	0
Ni	60	27.518	ug/L	0.054	0	47	60634	0
Ni	62	27.437	ug/L	0.157	0	85	9276	1
Cu	63	28.473	ug/L	0.247	0	279	143428	0
Cu	65	28.144	ug/L	0.285	1	93	67936	0
Zn	66	85.557	ug/L	0.454	0	751	134580	0
Zn	67	76.880	ug/L	0.760	0	145	20864	1
Zn	68	84.837	ug/L	0.121	0	8019	98832	0
As-1	75	27.155	ug/L	0.383	1	-39	37978	1
As	75	27.204	ug/L	0.495	1	8849	44324	1
Se	82	86.595	ug/L	0.465	0	-12	12269	0
Se	78	85.290	ug/L	0.450	0	9032	37661	0
[ Mo	98	27.438	ug/L	0.147	0	1392	137087	0
Y	89		ug/L			310463	223642	0
Kr	83		ug/L			81	69	2
> In	115		ug/L			464469	321412	0
Ag	107	26.962	ug/L	0.448	1	27	268602	1
Cd	111	26.532	ug/L	0.328	1	218	68141	0
Cd	114	26.645	ug/L	0.261	0	68	163019	0
Sb	121	26.285	ug/L	0.266	1	25	237831	0
Sb	123	26.451	ug/L	0.226	0	20	180755	0
Ba	135	26.990	ug/L	0.270	1	15	56516	0
[ Ba	137	27.077	ug/L	0.075	0	22	96243	0
> Tb	159		ug/L			467702	359970	0
Tl	205	24.332	ug/L	0.171	0	34	628393	0
Pb	208	25.199	ug/L	0.171	0	244	882783	0
Bi	209		ug/L			375879	278388	0
Th	232	24.185	ug/L	0.162	0	177	1221633	0
[ U	238	24.498	ug/L	0.203	0	29	1320750	0

SU53: 01407

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU58 MB1SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 19:21:41

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\Caldat051011.cal

*2e*

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> LI	6		ug/L			477376	390521	0
[ Be	9	23.739	ug/L	0.082	0	2	9236	1
C	13		mg/L			5140	5802	2
Cl	37		mg/L			2489408	1905673	0
> Sc	45		ug/L			273386	190709	0
V-1	51	25.760	ug/L	0.217	0	2122	236705	0
V	51	25.532	ug/L	0.184	0	767	239393	0
Cr	52	25.572	ug/L	0.136	0	6539	209001	0
Cr	53	24.886	ug/L	0.074	0	305	24476	0
Mn	55	25.729	ug/L	0.533	2	899	350344	1
[ Co	59	26.048	ug/L	0.319	1	48	274607	1
> Ge	72		ug/L			392434	269214	1
NI	60	26.020	ug/L	0.371	1	47	58004	0
NI	62	25.755	ug/L	0.346	1	85	8813	0
Cu	63	26.936	ug/L	0.114	0	279	137289	0
Cu	65	26.677	ug/L	0.473	1	93	65150	0
Zn	66	78.863	ug/L	1.378	1	751	125541	1
Zn	67	70.458	ug/L	1.029	1	145	19353	1
Zn	68	78.714	ug/L	0.679	0	8019	93172	0
As-1	75	25.446	ug/L	0.151	0	-39	36005	1
As	75	25.503	ug/L	0.250	0	8849	42419	0
Se	82	80.232	ug/L	0.314	0	-12	11500	1
Se	78	79.049	ug/L	0.722	0	9032	35768	0
[ Mo	98	26.193	ug/L	0.264	1	1392	132446	0
Y	89		ug/L			310463	226234	1
Kr	83		ug/L			81	66	7
> In	115		ug/L			464469	325725	1
Ag	107	25.868	ug/L	0.257	0	27	261165	0
Cd	111	24.955	ug/L	0.196	0	218	64960	1
Cd	114	25.029	ug/L	0.383	1	68	155175	0
Sb	121	24.837	ug/L	0.251	1	25	227737	0
Sb	123	25.066	ug/L	0.323	1	20	173577	0
Ba	135	25.606	ug/L	0.340	1	15	54333	0
[ Ba	137	25.805	ug/L	0.314	1	22	92942	0
> Tb	159		ug/L			467702	360126	0
Tl	205	23.293	ug/L	0.313	1	34	601784	0
Pb	208	24.213	ug/L	0.172	0	244	848613	0
Bi	209		ug/L			375879	280999	0
Th	232	23.462	ug/L	0.256	1	177	1185558	0
[ U	238	23.585	ug/L	0.127	0	29	1272090	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU58 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 19:28:06

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	388554	1
[ Be	9	0.008	ug/L	0.007	86	2	5	48
C	13		mg/L			5140	6373	3
Cl	37		mg/L			2489408	1891699	0
> Sc	45		ug/L			273386	202966	1
V-1	51	1.224	ug/L	0.023	1	2122	13468	1
V	51	1.213	ug/L	0.013	1	767	12650	0
Cr	52	2.100	ug/L	0.031	1	6539	22724	0
Cr	53	2.004	ug/L	0.021	1	305	2306	1
Mn	55	11.278	ug/L	0.072	0	899	163828	0
[ Co	59	0.407	ug/L	0.008	1	48	4606	0
> Ge	72		ug/L			392434	271388	0
Ni	60	1.985	ug/L	0.026	1	47	4491	1
Ni	62	1.585	ug/L	0.111	7	85	602	6
Cu	63	3.756	ug/L	0.059	1	279	19462	1
Cu	65	3.643	ug/L	0.027	0	93	9026	0
Zn	66	25.297	ug/L	0.190	0	751	40952	1
Zn	67	22.880	ug/L	0.587	2	145	6403	2
Zn	68	25.982	ug/L	0.250	0	8019	34719	0
As-1	75	3.731	ug/L	0.017	0	-39	5299	0
As	75	4.411	ug/L	0.021	0	8849	12458	0
Se	82	0.325	ug/L	0.029	8	-12	38	10
Se	78	3.010	ug/L	0.153	5	9032	7381	0
[ Mo	98	1.864	ug/L	0.022	1	1392	10396	1
Y	89		ug/L			310463	225437	0
Kr	83		ug/L			81	59	5
> In	115		ug/L			464469	326782	1
Ag	107	0.011	ug/L	0.001	12	27	131	10
Cd	111	0.206	ug/L	0.013	6	218	688	3
Cd	114	0.222	ug/L	0.007	3	68	1430	3
Sb	121	6.374	ug/L	0.053	0	25	58650	0
Sb	123	6.449	ug/L	0.131	2	20	44808	0
Ba	135	21.023	ug/L	0.302	1	15	44753	0
[ Ba	137	21.251	ug/L	0.404	1	22	76785	0
> Tb	159		ug/L			467702	364056	0
Tl	205	0.012	ug/L	0.001	11	34	331	10
Pb	208	0.118	ug/L	0.001	0	244	4359	1
Bi	209		ug/L			375879	273385	1
Th	232	0.054	ug/L	0.012	22	177	2874	21
[ U	238	0.075	ug/L	0.001	1	29	4126	1

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU58 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 19:34:36

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\051011.cal

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Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	388228	0
[ Be	9	0.001	ug/L	0.005	352	2	2	65
C	13		mg/L			5140	6294	1
Cl	37		mg/L			2489408	1886508	0
> Sc	45		ug/L			273386	201939	0
V-1	51	1.628	ug/L	0.032	1	2122	17312	1
V	51	1.608	ug/L	0.017	1	767	16493	0
Cr	52	1.540	ug/L	0.023	1	6539	17868	0
Cr	53	1.484	ug/L	0.041	2	305	1757	2
Mn	55	13.617	ug/L	0.088	0	899	196665	0
[ Co	59	0.439	ug/L	0.007	1	48	4934	1
> Ge	72		ug/L			392434	270159	1
Ni	60	1.495	ug/L	0.030	2	47	3376	1
Ni	62	1.174	ug/L	0.010	0	85	459	1
Cu	63	3.174	ug/L	0.091	2	279	16402	1
Cu	65	2.976	ug/L	0.036	1	93	7352	1
Zn	66	13.621	ug/L	0.081	0	751	22188	0
Zn	67	12.666	ug/L	0.094	0	145	3573	1
Zn	68	14.311	ug/L	0.374	2	8019	21514	1
As-1	75	4.245	ug/L	0.051	1	-39	6004	0
As	75	4.883	ug/L	0.157	3	8849	13074	0
Se	82	0.277	ug/L	0.060	21	-12	31	27
Se	78	2.835	ug/L	0.425	14	9032	7281	0
[ Mo	98	2.503	ug/L	0.053	2	1392	13568	1
Y	89		ug/L			310463	225885	0
Kr	83		ug/L			81	61	6
> In	115		ug/L			464469	323278	1
Ag	107	0.003	ug/L	0.000	18	27	44	9
Cd	111	0.061	ug/L	0.001	2	218	310	2
Cd	114	0.073	ug/L	0.008	11	68	496	9
Sb	121	6.706	ug/L	0.100	1	25	61042	1
Sb	123	6.726	ug/L	0.024	0	20	46229	0
Ba	135	25.155	ug/L	0.332	1	15	52975	0
[ Ba	137	25.536	ug/L	0.391	1	22	91280	0
> Tb	159		ug/L			467702	361111	0
Tl	205	0.004	ug/L	0.000	7	34	132	4
Pb	208	0.164	ug/L	0.004	2	244	5946	3
Bi	209		ug/L			375879	272721	0
Th	232	0.011	ug/L	0.001	4	177	719	4
[ U	238	0.068	ug/L	0.001	1	29	3682	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU58 C REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 19:41:07

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\051011.cal

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Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	380501	0
[ Be	9	0.025	ug/L	0.010	40	2	11	32
C	13		mg/L			5140	7084	1
Cl	37		mg/L			2489408	1875538	0
> Sc	45		ug/L			273386	201084	1
V-1	51	4.336	ug/L	0.060	1	2122	43301	0
V	51	4.326	ug/L	0.063	1	767	43232	0
Cr	52	6.919	ug/L	0.179	2	6539	63116	0
Cr	53	6.700	ug/L	0.180	2	305	7110	1
Mn	55	35.520	ug/L	0.843	2	899	509672	1
Co	59	1.265	ug/L	0.036	2	48	14090	1
> Ge	72		ug/L			392434	264057	0
Ni	60	3.871	ug/L	0.083	2	47	8491	1
Ni	62	3.983	ug/L	0.061	1	85	1385	1
Cu	63	17.805	ug/L	0.208	1	279	89073	0
Cu	65	17.707	ug/L	0.150	0	93	42441	0
Zn	66	89.743	ug/L	0.211	0	751	140067	0
Zn	67	78.896	ug/L	0.679	0	145	21245	0
Zn	68	89.438	ug/L	1.563	1	8019	103103	1
As-1	75	8.183	ug/L	0.013	0	-39	11338	0
As	75	8.848	ug/L	0.034	0	8849	18324	0
Se	82	0.386	ug/L	0.048	12	-12	45	14
Se	78	3.167	ug/L	0.097	3	9032	7239	0
Mo	98	2.120	ug/L	0.028	1	1392	11377	0
Y	89		ug/L			310463	227196	0
Kr	83		ug/L			81	63	0
> In	115		ug/L			464469	315987	0
Ag	107	0.056	ug/L	0.002	3	27	564	3
Cd	111	0.650	ug/L	0.017	2	218	1784	2
Cd	114	0.649	ug/L	0.007	1	68	3952	0
Sb	121	6.950	ug/L	0.055	0	25	61834	1
Sb	123	6.971	ug/L	0.078	1	20	46846	1
Ba	135	42.489	ug/L	0.330	0	15	87464	0
Ba	137	42.715	ug/L	0.326	0	22	149249	0
> Tb	159		ug/L			467702	350350	0
Tl	205	0.009	ug/L	0.001	8	34	254	7
Pb	208	41.776	ug/L	0.214	0	244	1424295	0
Bi	209		ug/L			375879	274238	0
Th	232	0.084	ug/L	0.002	2	177	4265	1
U	238	0.117	ug/L	0.001	1	29	6168	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU58 D REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 19:47:38

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\Caldata\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	377296	0
[ Be	9	0.001	ug/L	0.003	648	2	2	50
C	13		mg/L			5140	6760	1
Cl	37		mg/L			2489408	1866004	0
> Sc	45		ug/L			273386	192550	1
V-1	51	1.906	ug/L	0.049	2	2122	19068	1
V	51	1.864	ug/L	0.035	1	767	18147	1
Cr	52	1.809	ug/L	0.028	1	6539	19210	1
Cr	53	1.687	ug/L	0.080	4	305	1876	5
Mn	55	14.208	ug/L	0.065	0	899	195647	1
[ Co	59	0.465	ug/L	0.011	2	48	4982	3
> Ge	72		ug/L			392434	260950	0
Ni	60	1.447	ug/L	0.032	2	47	3155	1
Ni	62	1.052	ug/L	0.103	9	85	403	8
Cu	63	4.119	ug/L	0.037	0	279	20506	0
Cu	65	3.915	ug/L	0.055	1	93	9321	1
Zn	66	15.037	ug/L	0.047	0	751	23608	0
Zn	67	13.818	ug/L	0.404	2	145	3756	2
Zn	68	15.629	ug/L	0.207	1	8019	22206	1
As-1	75	4.507	ug/L	0.040	0	-39	6159	0
As	75	5.178	ug/L	0.002	0	8849	13038	0
Se	82	0.377	ug/L	0.030	8	-12	44	10
Se	78	3.053	ug/L	0.139	4	9032	7113	1
[ Mo	98	1.975	ug/L	0.023	1	1392	10537	0
Y	89		ug/L			310463	218202	0
Kr	83		ug/L			81	57	7
> In	115		ug/L			464469	311986	0
Ag	107	0.005	ug/L	0.001	13	27	65	9
Cd	111	0.072	ug/L	0.010	13	218	326	6
Cd	114	0.080	ug/L	0.005	6	68	523	5
Sb	121	6.884	ug/L	0.054	0	25	60469	0
Sb	123	6.817	ug/L	0.063	0	20	45227	0
Ba	135	26.045	ug/L	0.222	0	15	52937	0
[ Ba	137	26.267	ug/L	0.140	0	22	90627	1
> Tb	159		ug/L			467702	349096	0
Tl	205	0.004	ug/L	0.000	4	34	126	3
Pb	208	1.174	ug/L	0.003	0	244	40050	0
Bi	209		ug/L			375879	265119	0
Th	232	0.006	ug/L	0.001	10	177	438	6
[ U	238	0.080	ug/L	0.003	3	29	4206	3



## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 P REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 19:54:09

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> LI	6		ug/L			477376	360529	1
[ Be	9	0.008	ug/L	0.007	89	2	5	50
C	13		mg/L			5140	6848	0
Cl	37		mg/L			2489408	1974450	0
> Sc	45		ug/L			273386	226541	0
V-1	51	1.161	ug/L	0.053	4	2122	14353	3
V	51	1.191	ug/L	0.041	3	767	13869	2
Cr	52	0.515	ug/L	0.025	4	6539	10305	1
Cr	53	0.653	ug/L	0.019	2	305	1009	2
Mn	55	166.112	ug/L	1.538	0	899	2683000	0
[ Co	59	0.410	ug/L	0.007	1	48	5169	1
> Ge	72		ug/L			392434	258536	0
Ni	60	3.213	ug/L	0.041	1	47	6906	1
Ni	62	2.158	ug/L	0.012	0	85	760	0
Cu	63	1.328	ug/L	0.017	1	279	6676	1
Cu	65	0.505	ug/L	0.014	2	93	1244	2
Zn	66	0.709	ug/L	0.037	5	751	1574	3
Zn	67	0.836	ug/L	0.058	6	145	315	4
Zn	68	1.650	ug/L	0.110	6	8019	7048	1
As-1	75	15.605	ug/L	0.192	1	-39	21195	0
As	75	16.281	ug/L	0.189	1	8849	28115	0
Se	82	0.397	ug/L	0.099	24	-12	46	29
Se	78	3.392	ug/L	0.119	3	9032	7169	0
[ Mo	98	6.328	ug/L	0.076	1	1392	31427	0
Y	89		ug/L			310463	218893	0
Kr	83		ug/L			81	61	0
> In	115		ug/L			464469	304341	1
Ag	107	0.003	ug/L	0.001	34	27	43	20
Cd	111	-0.031	ug/L	0.015	48	218	67	54
Cd	114	0.008	ug/L	0.003	35	68	89	17
Sb	121	0.160	ug/L	0.006	3	25	1387	3
Sb	123	0.159	ug/L	0.009	5	20	1039	4
Ba	135	11.720	ug/L	0.123	1	15	23241	0
[ Ba	137	11.775	ug/L	0.156	1	22	39633	0
> Tb	159		ug/L			467702	338255	0
Tl	205	0.002	ug/L	0.000	19	34	69	11
Pb	208	0.020	ug/L	0.002	11	244	820	8
Bi	209		ug/L			375879	249602	0
Th	232	0.007	ug/L	0.001	11	177	450	8
[ U	238	0.145	ug/L	0.003	2	29	7391	1

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU57 T REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 20:00:42

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			477376	373806	0
[ Be	9	0.008	ug/L	0.008	100	2	5	58
C	13		mg/L			5140	6192	1
Cl	37		mg/L			2489408	1861827	0
[> Sc	45		ug/L			273386	240186	0
V-1	51	1.561	ug/L	0.023	1	2122	19820	1
V	51	1.555	ug/L	0.021	1	767	18992	1
Cr	52	0.388	ug/L	0.012	3	6539	9648	1
Cr	53	0.454	ug/L	0.020	4	305	825	2
Mn	55	222.508	ug/L	1.222	0	899	3810262	0
Co	59	0.101	ug/L	0.003	3	48	1378	3
[> Ge	72		ug/L			392434	262626	0
Ni	60	1.173	ug/L	0.021	1	47	2581	1
Ni	62	0.627	ug/L	0.015	2	85	265	1
Cu	63	0.642	ug/L	0.011	1	279	3373	1
Cu	65	0.494	ug/L	0.029	5	93	1238	5
Zn	66	1.050	ug/L	0.031	2	751	2127	2
Zn	67	1.088	ug/L	0.044	4	145	387	3
Zn	68	2.092	ug/L	0.099	4	8019	7639	1
As-1	75	462.645	ug/L	2.274	0	-39	639064	0
As	75	460.356	ug/L	2.285	0	8849	646034	0
Se	82	0.324	ug/L	0.035	10	-12	36	13
Se	78	3.141	ug/L	0.070	2	9032	7191	0
Mo	98	-0.025	ug/L	0.007	28	1392	809	4
Y	89		ug/L			310463	215072	0
Kr	83		ug/L			81	59	6
[> In	115		ug/L			464469	310058	0
Ag	107	0.003	ug/L	0.001	32	27	42	19
Cd	111	0.085	ug/L	0.005	6	218	356	4
Cd	114	0.071	ug/L	0.003	4	68	462	4
Sb	121	0.052	ug/L	0.003	6	25	472	5
Sb	123	0.050	ug/L	0.003	5	20	340	5
Ba	135	0.915	ug/L	0.033	3	15	1857	3
Ba	137	0.914	ug/L	0.016	1	22	3149	1
[> Tb	159		ug/L			467702	342071	0
Tl	205	0.001	ug/L	0.000	11	34	55	7
Pb	208	0.021	ug/L	0.001	2	244	875	2
Bi	209		ug/L			375879	263467	0
Th	232	0.008	ug/L	0.000	2	177	490	2
U	238	0.003	ug/L	0.000	15	29	163	14

## ICP-MS Quantitative Analysis - Summary Report

**Sample ID: CCV7**

**Sample Dil Factor:**

**Comments:**

**Sample Date/Time: Tuesday, May 10, 2011 20:07:15**

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			477376	371983	0
[ Be	9	47.866	ug/L	0.224	0	2	17736	0
C	13		mg/L			5140	3263	2
Cl	37		mg/L			2489408	1833508	0
[> Sc	45		ug/L			273386	176127	0
V-1	51	51.097	ug/L	0.465	0	2122	432290	0
V	51	50.738	ug/L	0.412	0	767	438870	0
Cr	52	51.209	ug/L	0.487	0	6539	382314	0
Cr	53	50.098	ug/L	0.274	0	305	45306	0
Mn	55	50.694	ug/L	0.637	1	899	637001	0
[ Co	59	50.229	ug/L	0.491	0	48	489014	0
[> Ge	72		ug/L			392434	253951	0
Ni	60	49.914	ug/L	0.351	0	47	104941	0
Ni	62	49.604	ug/L	0.146	0	85	15962	0
Cu	63	50.012	ug/L	0.076	0	279	240304	0
Cu	65	50.087	ug/L	0.421	0	93	115346	0
Zn	66	50.349	ug/L	0.526	1	751	75785	0
Zn	67	49.092	ug/L	1.057	2	145	12750	2
Zn	68	50.896	ug/L	0.334	0	8019	58664	0
As-1	75	50.494	ug/L	0.236	0	-39	67422	0
As	75	50.756	ug/L	0.211	0	8849	73970	0
Se	82	52.442	ug/L	0.022	0	-12	7088	0
Se	78	53.424	ug/L	0.308	0	9032	24699	0
[ Mo	98	52.624	ug/L	0.171	0	1392	250109	0
Y	89		ug/L			310463	210031	0
Kr	83		ug/L			81	68	3
[> In	115		ug/L			464469	303469	0
Ag	107	49.554	ug/L	0.247	0	27	466121	0
Cd	111	49.940	ug/L	0.084	0	218	120976	0
Cd	114	50.210	ug/L	0.445	0	68	289999	0
Sb	121	51.002	ug/L	0.406	0	25	435686	0
Sb	123	51.097	ug/L	0.654	1	20	329651	0
Ba	135	50.282	ug/L	0.502	0	15	99398	0
[ Ba	137	50.471	ug/L	0.285	0	22	169357	0
[> Tb	159		ug/L			467702	336871	0
Tl	205	45.619	ug/L	0.314	0	34	1102502	0
Pb	208	47.065	ug/L	0.433	0	244	1542812	0
Bi	209		ug/L			375879	259304	0
Th	232	49.147	ug/L	0.570	1	177	2322967	0
[ U	238	49.524	ug/L	0.566	1	29	2498480	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB7

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 20:14:28

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	378676	0
[ Be	9	-0.006	ug/L	0.000	0	2	0	
C	13		mg/L			5140	3402	1
Cl	37		mg/L			2489408	1836603	0
> Sc	45		ug/L			273386	178651	0
V-1	51	0.017	ug/L	0.005	28	2122	1535	2
V	51	-0.006	ug/L	0.002	37	767	445	5
Cr	52	0.061	ug/L	0.009	14	6539	4729	0
Cr	53	-0.015	ug/L	0.007	46	305	185	3
Mn	55	-0.003	ug/L	0.002	62	899	549	3
[ Co	59	0.004	ug/L	0.001	22	48	75	12
> Ge	72		ug/L			392434	257884	1
Ni	60	0.001	ug/L	0.004	689	47	32	21
Ni	62	-0.006	ug/L	0.008	138	85	54	4
Cu	63	-0.009	ug/L	0.002	18	279	141	4
Cu	65	-0.003	ug/L	0.002	56	93	53	8
Zn	66	-0.254	ug/L	0.005	1	751	108	5
Zn	67	-0.224	ug/L	0.032	14	145	36	23
Zn	68	0.321	ug/L	0.026	7	8019	5612	1
As-1	75	0.009	ug/L	0.020	225	-39	-14	189
As	75	0.895	ug/L	0.073	8	8849	7036	0
Se	82	-0.023	ug/L	0.032	137	-12	-11	39
Se	78	3.427	ug/L	0.243	7	9032	7162	0
[ Mo	98	-0.173	ug/L	0.002	1	1392	81	13
Y	89		ug/L			310463	214529	2
Kr	83		ug/L			81	65	4
> In	115		ug/L			464469	308103	0
Ag	107	0.009	ug/L	0.002	16	27	108	13
Cd	111	-0.008	ug/L	0.001	16	218	125	2
Cd	114	-0.004	ug/L	0.000	10	68	21	11
Sb	121	0.012	ug/L	0.003	23	25	117	20
Sb	123	0.012	ug/L	0.002	15	20	92	13
Ba	135	0.005	ug/L	0.003	69	15	19	33
[ Ba	137	0.005	ug/L	0.002	42	22	32	22
> Tb	159		ug/L			467702	342284	0
Tl	205	0.004	ug/L	0.000	2	34	126	1
Pb	208	0.004	ug/L	0.001	19	244	328	8
Bi	209		ug/L			375879	265951	0
Th	232	0.037	ug/L	0.002	5	177	1912	5
[ U	238	0.005	ug/L	0.000	7	29	261	7

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU73 MB1 REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 20:21:40

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	380021	0
[ Be	9	-0.003	ug/L	0.000	1	2	1	0
C	13		mg/L			5140	4135	3
Cl	37		mg/L			2489408	1830508	0
> Sc	45		ug/L			273386	177121	0
V-1	51	0.032	ug/L	0.009	28	2122	1646	5
V	51	-0.004	ug/L	0.006	149	767	459	11
Cr	52	0.096	ug/L	0.020	20	6539	4952	3
Cr	53	-0.020	ug/L	0.017	86	305	180	8
Mn	55	0.039	ug/L	0.008	21	899	1073	9
[ Co	59	0.006	ug/L	0.001	14	48	91	9
> Ge	72		ug/L			392434	251050	0
Ni	60	0.028	ug/L	0.000	1	47	87	0
Ni	62	0.022	ug/L	0.042	188	85	62	22
Cu	63	0.059	ug/L	0.009	15	279	460	8
Cu	65	0.063	ug/L	0.009	14	93	204	10
Zn	66	0.136	ug/L	0.023	16	751	682	4
Zn	67	0.148	ug/L	0.024	16	145	130	5
Zn	68	0.903	ug/L	0.039	4	8019	6068	0
As-1	75	0.031	ug/L	0.017	55	-39	16	141
As	75	1.084	ug/L	0.077	7	8849	7101	0
Se	82	0.105	ug/L	0.042	39	-12	6	93
Se	78	4.167	ug/L	0.318	7	9032	7231	1
[ Mo	98	-0.180	ug/L	0.002	1	1392	49	17
Y	89		ug/L			310463	211740	0
Kr	83		ug/L			81	61	2
> In	115		ug/L			464469	302583	0
Ag	107	0.002	ug/L	0.001	35	27	36	18
Cd	111	0.002	ug/L	0.006	372	218	145	9
Cd	114	-0.005	ug/L	0.001	17	68	18	23
Sb	121	0.005	ug/L	0.001	18	25	57	13
Sb	123	0.007	ug/L	0.002	26	20	55	20
Ba	135	0.015	ug/L	0.004	28	15	39	21
[ Ba	137	0.016	ug/L	0.003	22	22	66	17
> Tb	159		ug/L			467702	337142	0
Tl	205	0.002	ug/L	0.000	5	34	85	2
Pb	208	0.019	ug/L	0.002	8	244	797	6
Bi	209		ug/L			375879	262643	1
Th	232	0.011	ug/L	0.001	5	177	646	4
[ U	238	0.002	ug/L	0.000	7	29	126	7

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU73 MB1SPK REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 20:28:13

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	381254	0
[ Be	9	23.229	ug/L	0.144	0	2	8822	0
C	13		mg/L			5140	4772	2
Cl	37		mg/L			2489408	1821970	0
> Sc	45		ug/L			273386	179630	0
V-1	51	25.560	ug/L	0.207	0	2122	221247	1
V	51	25.337	ug/L	0.160	0	767	223779	0
Cr	52	25.273	ug/L	0.227	0	6539	194615	1
Cr	53	24.611	ug/L	0.519	2	305	22801	1
Mn	55	25.729	ug/L	0.184	0	899	330023	0
Co	59	25.721	ug/L	0.175	0	48	255420	1
> Ge	72		ug/L			392434	253912	0
Ni	60	26.020	ug/L	0.274	1	47	54712	1
Ni	62	25.661	ug/L	0.450	1	85	8283	1
Cu	63	26.723	ug/L	0.193	0	279	128465	0
Cu	65	26.816	ug/L	0.159	0	93	61777	0
Zn	66	82.281	ug/L	0.526	0	751	123527	0
Zn	67	73.941	ug/L	0.721	0	145	19152	0
Zn	68	81.629	ug/L	0.302	0	8019	90942	0
As-1	75	25.592	ug/L	0.184	0	-39	34154	0
As	75	26.071	ug/L	0.292	1	8849	40774	0
Se	82	81.678	ug/L	0.856	1	-12	11042	0
Se	78	82.098	ug/L	1.039	1	9032	34812	0
Mo	98	-0.176	ug/L	0.003	1	1392	66	19
Y	89		ug/L			310463	213689	0
Kr	83		ug/L			81	67	5
> In	115		ug/L			464469	303949	0
Ag	107	25.802	ug/L	0.021	0	27	243100	0
Cd	111	25.097	ug/L	0.393	1	218	60960	1
Cd	114	25.210	ug/L	0.128	0	68	145861	0
Sb	121	0.007	ug/L	0.001	21	25	75	17
Sb	123	0.005	ug/L	0.002	47	20	43	32
Ba	135	25.715	ug/L	0.173	0	15	50921	0
Ba	137	25.746	ug/L	0.314	1	22	86532	0
> Tb	159		ug/L			467702	339501	0
Tl	205	23.236	ug/L	0.252	1	34	565961	0
Pb	208	24.255	ug/L	0.094	0	244	801427	0
Bi	209		ug/L			375879	268116	0
Th	232	23.090	ug/L	0.048	0	177	1100008	0
U	238	23.410	ug/L	0.137	0	29	1190322	0

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU73 ADUP REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 20:34:46

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	344693	6
[ Be	9	0.006	ug/L	0.008	145	2	4	75
C	13		mg/L			5140	5492	3
Cl	37		mg/L			2489408	1843856	2
> Sc	45		ug/L			273386	210743	6
V-1	51	0.684	ug/L	0.014	1	2122	8545	7
V	51	0.665	ug/L	0.010	1	767	7463	6
Cr	52	0.338	ug/L	0.013	3	6539	8029	7
Cr	53	0.303	ug/L	0.028	9	305	561	4
Mn	55	339.365	ug/L	2.122	0	899	5097444	6
Co	59	0.186	ug/L	0.003	1	48	2208	5
> Ge	72		ug/L			392434	244311	5
Ni	60	0.984	ug/L	0.025	2	47	2021	7
Ni	62	1.474	ug/L	0.143	9	85	509	14
Cu	63	2.508	ug/L	0.044	1	279	11766	7
Cu	65	0.667	ug/L	0.010	1	93	1533	4
Zn	66	0.337	ug/L	0.029	8	751	954	9
Zn	67	0.507	ug/L	0.061	12	145	215	3
Zn	68	1.997	ug/L	0.312	15	8019	7000	0
As-1	75	14.220	ug/L	0.044	0	-39	18248	5
As	75	16.374	ug/L	0.236	1	8849	25385	4
Se	82	0.230	ug/L	0.016	6	-12	22	5
Se	78	5.056	ug/L	0.891	17	9032	7328	1
[ Mo	98	0.025	ug/L	0.006	23	1392	980	8
Y	89		ug/L			310463	203064	6
Kr	83		ug/L			81	63	6
> In	115		ug/L			464469	283728	5
Ag	107	0.014	ug/L	0.002	12	27	141	17
Cd	111	-0.106	ug/L	0.025	23	218	-105	48
Cd	114	0.007	ug/L	0.003	44	68	77	26
Sb	121	0.332	ug/L	0.009	2	25	2672	8
Sb	123	0.333	ug/L	0.008	2	20	2023	7
Ba	135	10.535	ug/L	0.203	1	15	19467	4
[ Ba	137	10.596	ug/L	0.095	0	22	33258	6
> Tb	159		ug/L			467702	317220	5
Tl	205	0.008	ug/L	0.001	13	34	200	13
Pb	208	0.107	ug/L	0.000	0	244	3479	5
Bi	209		ug/L			375879	234332	5
Th	232	0.063	ug/L	0.006	10	177	2504	15
[ U	238	0.124	ug/L	0.002	1	29	5916	6

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU73 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 20:41:20

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\Caldat051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	396225	1
[ Be	9	0.003	ug/L	0.000	4	2	3	
C	13		mg/L			5140	5816	1
Cl	37		mg/L			2489408	1976914	0
> Sc	45		ug/L			273386	245942	2
V-1	51	0.679	ug/L	0.018	2	2122	9902	2
V	51	0.662	ug/L	0.014	2	767	8672	1
Cr	52	0.306	ug/L	0.015	5	6539	9040	1
Cr	53	0.281	ug/L	0.005	1	305	628	1
Mn	55	338.916	ug/L	3.804	1	899	5941522	1
[ Co	59	0.183	ug/L	0.004	2	48	2525	1
> Ge	72		ug/L			392434	280199	1
NI	60	1.076	ug/L	0.054	5	47	2528	3
NI	62	1.559	ug/L	0.363	23	85	612	20
Cu	63	2.485	ug/L	0.040	1	279	13363	0
Cu	65	0.596	ug/L	0.023	3	93	1579	2
Zn	66	0.305	ug/L	0.067	21	751	1039	10
Zn	67	0.565	ug/L	0.038	6	145	264	4
Zn	68	1.309	ug/L	0.100	7	8019	7242	1
As-1	75	14.165	ug/L	0.048	0	-39	20848	1
As	75	14.793	ug/L	0.180	1	8849	28262	1
Se	82	0.236	ug/L	0.006	2	-12	26	3
Se	78	2.991	ug/L	0.538	17	9032	7611	1
[ Mo	98	0.046	ug/L	0.008	16	1392	1234	4
Y	89		ug/L			310463	232162	1
Kr	83		ug/L			81	61	6
> In	115		ug/L			464469	330017	1
Ag	107	0.004	ug/L	0.001	21	27	59	12
Cd	111	-0.118	ug/L	0.035	29	218	-154	60
Cd	114	0.002	ug/L	0.001	56	68	64	14
Sb	121	0.331	ug/L	0.001	0	25	3090	1
Sb	123	0.323	ug/L	0.004	1	20	2279	3
Ba	135	10.150	ug/L	0.071	0	15	21829	2
[ Ba	137	10.354	ug/L	0.057	0	22	37799	2
> Tb	159		ug/L			467702	364364	2
Tl	205	0.004	ug/L	0.000	6	34	135	6
Pb	208	0.098	ug/L	0.003	3	244	3664	1
Bi	209		ug/L			375879	264463	2
Th	232	0.022	ug/L	0.001	3	177	1278	5
[ U	238	0.112	ug/L	0.003	2	29	6130	3



## ICP-MS Quantitative Analysis - Summary Report

**Sample ID: SU73 ASPK REN**

**Sample Dil Factor: 2**

**Comments:**

**Sample Date/Time: Tuesday, May 10, 2011 20:47:55**

**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\051011.cal**

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	403567	2
Be	9	24.305	ug/L	0.120	0	2	9772	3
C	13		mg/L			5140	5909	5
Cl	37		mg/L			2489408	2076153	4
> Sc	45		ug/L			273386	251642	3
V-1	51	22.406	ug/L	0.286	1	2122	271866	2
V	51	22.317	ug/L	0.285	1	767	276130	2
Cr	52	21.438	ug/L	0.031	0	6539	232174	3
Cr	53	21.236	ug/L	0.129	0	305	27599	3
Mn	55	350.166	ug/L	2.611	0	899	6281265	3
Co	59	21.110	ug/L	0.038	0	48	293659	3
> Ge	72		ug/L			392434	286091	2
Ni	60	26.576	ug/L	0.220	0	47	62967	2
Ni	62	26.479	ug/L	0.243	0	85	9626	1
Cu	63	27.560	ug/L	0.214	0	279	149292	3
Cu	65	25.912	ug/L	0.389	1	93	67271	3
Zn	66	76.731	ug/L	0.716	0	751	129839	2
Zn	67	68.652	ug/L	0.425	0	145	20042	2
Zn	68	76.401	ug/L	0.516	0	8019	96285	2
As-1	75	39.296	ug/L	0.249	0	-39	59110	2
As	75	39.646	ug/L	0.380	0	8849	66508	2
Se	82	79.576	ug/L	0.706	0	-12	12122	2
Se	78	79.824	ug/L	1.372	1	9032	38322	3
Mo	98	0.019	ug/L	0.011	57	1392	1119	6
Y	89		ug/L			310463	236853	2
Kr	83		ug/L			81	64	2
> In	115		ug/L			464469	336996	2
Ag	107	23.615	ug/L	0.257	1	27	246728	3
Cd	111	24.679	ug/L	0.152	0	218	66474	3
Cd	114	24.989	ug/L	0.174	0	68	160329	3
Sb	121	0.316	ug/L	0.007	2	25	3014	3
Sb	123	0.315	ug/L	0.004	1	20	2270	3
Ba	135	35.870	ug/L	0.381	1	15	78766	3
Ba	137	35.918	ug/L	0.125	0	22	133840	2
> Tb	159		ug/L			467702	369375	3
Tl	205	22.566	ug/L	0.199	0	34	597876	2
Pb	208	23.619	ug/L	0.310	1	244	848791	2
Bi	209		ug/L			375879	270638	2
Th	232	22.793	ug/L	0.164	0	177	1181178	2
U	238	24.004	ug/L	0.385	1	29	1327378	2

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU73 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 20:54:29

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			477376	419471	3
[ Be	9	0.004	ug/L	0.008	199	2	4	75
C	13		mg/L			5140	6402	2
Cl	37		mg/L			2489408	2186047	1
[> Sc	45		ug/L			273386	268403	3
V-1	51	0.696	ug/L	0.010	1	2122	11031	2
V	51	0.682	ug/L	0.011	1	767	9734	1
Cr	52	0.268	ug/L	0.003	0	6539	9437	3
Cr	53	0.256	ug/L	0.023	8	305	651	3
Mn	55	327.376	ug/L	2.006	0	899	6263474	2
[ Co	59	0.174	ug/L	0.003	1	48	2632	4
[> Ge	72		ug/L			392434	299803	2
Ni	60	1.010	ug/L	0.016	1	47	2542	0
Ni	62	1.677	ug/L	0.144	8	85	699	6
Cu	63	2.500	ug/L	0.031	1	279	14383	2
Cu	65	0.609	ug/L	0.017	2	93	1726	3
Zn	66	0.680	ug/L	0.032	4	751	1774	3
Zn	67	0.888	ug/L	0.028	3	145	381	4
Zn	68	1.655	ug/L	0.275	16	8019	8174	1
As-1	75	13.449	ug/L	0.048	0	-39	21177	2
As	75	13.977	ug/L	0.196	1	8849	28942	1
Se	82	0.246	ug/L	0.027	10	-12	29	12
Se	78	2.586	ug/L	0.624	24	9032	7973	1
[ Mo	98	0.052	ug/L	0.002	3	1392	1355	1
Y	89		ug/L			310463	244809	2
Kr	83		ug/L			81	63	11
[> In	115		ug/L			464469	356396	2
Ag	107	0.010	ug/L	0.000	2	27	130	4
Cd	111	-0.120	ug/L	0.021	17	218	-175	35
Cd	114	0.003	ug/L	0.001	33	68	72	11
Sb	121	0.363	ug/L	0.005	1	25	3657	2
Sb	123	0.381	ug/L	0.009	2	20	2901	1
Ba	135	9.843	ug/L	0.063	0	15	22861	2
[ Ba	137	9.933	ug/L	0.158	1	22	39152	2
[> Tb	159		ug/L			467702	383169	2
Tl	205	0.006	ug/L	0.001	10	34	191	10
Pb	208	0.097	ug/L	0.001	1	244	3828	3
Bi	209		ug/L			375879	278881	2
Th	232	0.051	ug/L	0.008	15	177	2921	16
[ U	238	0.130	ug/L	0.001	0	29	7491	3

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU74 A REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 21:01:05

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	399262	0
[ Be	9	0.022	ug/L	0.011	49	2	11	38
C	13		mg/L			5140	5923	1
Cl	37		mg/L			2489408	2179856	0
> Sc	45		ug/L			273386	229583	1
V-1	51	0.951	ug/L	0.021	2	2122	12239	2
V	51	1.041	ug/L	0.007	0	767	12365	2
Cr	52	0.587	ug/L	0.014	2	6539	11139	0
Cr	53	0.889	ug/L	0.042	4	305	1299	3
Mn	55	3.680	ug/L	0.041	1	899	60974	1
[ Co	59	0.104	ug/L	0.001	1	48	1362	0
> Ge	72		ug/L			392434	278765	1
Ni	60	6.849	ug/L	0.059	0	47	15837	1
Ni	62	6.411	ug/L	0.261	4	85	2317	2
Cu	63	0.594	ug/L	0.020	3	279	3330	3
Cu	65	0.539	ug/L	0.019	3	93	1426	3
Zn	66	1.159	ug/L	0.020	1	751	2436	0
Zn	67	1.184	ug/L	0.124	10	145	437	7
Zn	68	2.420	ug/L	0.082	3	8019	8487	0
As-1	75	0.283	ug/L	0.012	4	-39	387	3
As	75	1.256	ug/L	0.061	4	8849	8139	0
Se	82	0.329	ug/L	0.057	17	-12	39	20
Se	78	4.073	ug/L	0.212	5	9032	7993	0
[ Mo	98	-0.160	ug/L	0.002	0	1392	155	5
Y	89		ug/L			310463	226214	1
Kr	83		ug/L			81	65	9
> In	115		ug/L			464469	332727	1
Ag	107	0.004	ug/L	0.001	28	27	55	17
Cd	111	0.021	ug/L	0.003	12	218	212	3
Cd	114	0.017	ug/L	0.003	18	68	155	11
Sb	121	0.036	ug/L	0.001	3	25	355	3
Sb	123	0.035	ug/L	0.000	0	20	263	0
Ba	135	11.056	ug/L	0.127	1	15	23972	1
[ Ba	137	11.149	ug/L	0.136	1	22	41031	1
> Tb	159		ug/L			467702	357150	1
Tl	205	0.005	ug/L	0.000	2	34	160	3
Pb	208	0.048	ug/L	0.002	4	244	1867	2
Bi	209		ug/L			375879	272774	0
Th	232	0.019	ug/L	0.001	3	177	1110	1
[ U	238	0.034	ug/L	0.001	3	29	1824	3

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU74 B REN

Sample Dil Factor: 2

Comments:

Sample Date/Time: Tuesday, May 10, 2011 21:07:41

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[>] Li	6		ug/L			477376	392317	2
[ ] Be	9	0.014	ug/L	0.011	79	2	7	55
[ ] C	13		mg/L			5140	5644	1
[ ] Cl	37		mg/L			2489408	1933722	0
[>] Sc	45		ug/L			273386	229683	2
[ ] V-1	51	1.597	ug/L	0.027	1	2122	19349	2
[ ] V	51	1.578	ug/L	0.022	1	767	18420	2
[ ] Cr	52	0.247	ug/L	0.027	11	6539	7869	3
[ ] Cr	53	0.286	ug/L	0.022	7	305	592	2
[ ] Mn	55	191.504	ug/L	1.895	0	899	3136044	2
[ ] Co	59	1.698	ug/L	0.016	0	48	21598	3
[>] Ge	72		ug/L			392434	275637	1
[ ] Ni	60	8.261	ug/L	0.136	1	47	18883	3
[ ] Ni	62	7.889	ug/L	0.266	3	85	2806	3
[ ] Cu	63	1.359	ug/L	0.008	0	279	7277	2
[ ] Cu	65	1.382	ug/L	0.016	1	93	3518	2
[ ] Zn	66	1.251	ug/L	0.053	4	751	2557	1
[ ] Zn	67	2.607	ug/L	0.089	3	145	831	3
[ ] Zn	68	3.397	ug/L	0.102	2	8019	9505	0
[ ] As-1	75	0.656	ug/L	0.011	1	-39	923	1
[ ] As	75	1.535	ug/L	0.132	8	8849	8454	0
[ ] Se	82	0.354	ug/L	0.026	7	-12	43	7
[ ] Se	78	3.781	ug/L	0.477	12	9032	7790	0
[ ] Mo	98	-0.082	ug/L	0.006	7	1392	556	6
[ ] Y	89		ug/L			310463	228272	3
[ ] Kr	83		ug/L			81	69	6
[>] In	115		ug/L			464469	329081	2
[ ] Ag	107	0.003	ug/L	0.001	38	27	53	26
[ ] Cd	111	0.044	ug/L	0.010	22	218	268	7
[ ] Cd	114	0.042	ug/L	0.002	4	68	309	2
[ ] Sb	121	0.073	ug/L	0.001	1	25	691	1
[ ] Sb	123	0.073	ug/L	0.002	2	20	523	3
[ ] Ba	135	64.266	ug/L	0.819	1	15	137751	2
[ ] Ba	137	64.511	ug/L	0.977	1	22	234737	2
[>] Tb	159		ug/L			467702	354711	3
[ ] Tl	205	0.006	ug/L	0.001	10	34	175	12
[ ] Pb	208	0.048	ug/L	0.001	2	244	1846	3
[ ] Bi	209		ug/L			375879	271280	2
[ ] Th	232	0.018	ug/L	0.002	8	177	1020	8
[ ] U	238	0.038	ug/L	0.002	4	29	2033	2

## ICP-MS Quantitative Analysis - Summary Report

**Sample ID: SU74 C REN**

**Sample Dil Factor: 2**

**Comments:**

**Sample Date/Time: Tuesday, May 10, 2011 21:14:17**

**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\051011.cal**

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
[> Li	6		ug/L			477376	373899	2
[ Be	9	0.015	ug/L	0.005	32	2	7	24
C	13		mg/L			5140	5120	1
Cl	37		mg/L			2489408	1849513	0
[> Sc	45		ug/L			273386	223339	2
V-1	51	1.692	ug/L	0.021	1	2122	19826	3
V	51	1.686	ug/L	0.015	0	767	19104	2
Cr	52	0.205	ug/L	0.002	0	6539	7264	1
Cr	53	0.298	ug/L	0.023	7	305	590	3
Mn	55	9.809	ug/L	0.041	0	899	156894	2
[ Co	59	0.099	ug/L	0.002	2	48	1258	3
[> Ge	72		ug/L			392434	259730	1
Ni	60	12.707	ug/L	0.233	1	47	27343	1
Ni	62	12.305	ug/L	0.333	2	85	4093	4
Cu	63	0.555	ug/L	0.015	2	279	2909	4
Cu	65	0.627	ug/L	0.018	2	93	1536	3
Zn	66	1.093	ug/L	0.045	4	751	2169	1
Zn	67	1.606	ug/L	0.078	4	145	519	5
Zn	68	2.778	ug/L	0.030	1	8019	8292	1
As-1	75	0.429	ug/L	0.003	0	-39	560	2
As	75	1.450	ug/L	0.071	4	8849	7849	0
Se	82	0.486	ug/L	0.002	0	-12	58	1
Se	78	4.369	ug/L	0.294	6	9032	7553	0
[ Mo	98	-0.155	ug/L	0.002	0	1392	171	2
Y	89		ug/L			310463	216431	2
Kr	83		ug/L			81	55	5
[> In	115		ug/L			464469	308081	2
Ag	107	0.004	ug/L	0.000	9	27	53	8
Cd	111	0.076	ug/L	0.005	7	218	330	3
Cd	114	0.055	ug/L	0.007	12	68	368	9
Sb	121	0.042	ug/L	0.003	7	25	377	5
Sb	123	0.040	ug/L	0.002	5	20	278	6
Ba	135	25.335	ug/L	0.195	0	15	50857	2
[ Ba	137	25.409	ug/L	0.099	0	22	86562	1
[> Tb	159		ug/L			467702	339465	1
Tl	205	0.005	ug/L	0.001	13	34	137	11
Pb	208	0.036	ug/L	0.001	3	244	1382	3
Bi	209		ug/L			375879	254399	1
Th	232	0.008	ug/L	0.001	11	177	528	9
[ U	238	0.075	ug/L	0.001	1	29	3829	3

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: SU14 I REN

Sample Dil Factor: 5

Comments:

Sample Date/Time: Tuesday, May 10, 2011 21:20:50

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\Caldata\051011.cal

05

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	360158	1
[ Be	9	0.001	ug/L	0.000	9	2	2	
C	13		mg/L			5140	3991	1
Cl	37		mg/L			2489408	1856150	0
> Sc	45		ug/L			273386	194158	0
V-1	51	2.487	ug/L	0.036	1	2122	24627	0
V	51	2.493	ug/L	0.022	0	767	24291	0
Cr	52	0.968	ug/L	0.014	1	6539	12522	1
Cr	53	1.098	ug/L	0.043	3	305	1307	3
Mn	55	247.374	ug/L	0.842	0	899	3424212	0
[ Co	59	0.118	ug/L	0.002	1	48	1298	1
> Ge	72		ug/L			392434	248175	0
Ni	60	0.376	ug/L	0.018	4	47	802	4
Ni	62	0.198	ug/L	0.006	3	85	116	1
Cu	63	0.591	ug/L	0.009	1	279	2951	1
Cu	65	0.114	ug/L	0.010	8	93	314	6
Zn	66	0.383	ug/L	0.008	2	751	1034	1
Zn	67	0.551	ug/L	0.073	13	145	230	8
Zn	68	1.797	ug/L	0.097	5	8019	6916	1
As-1	75	0.191	ug/L	0.009	4	-39	224	5
As	75	1.336	ug/L	0.074	5	8849	7352	0
Se	82	0.419	ug/L	0.016	3	-12	47	5
Se	78	4.865	ug/L	0.265	5	9032	7389	0
[ Mo	98	-0.116	ug/L	0.004	3	1392	343	5
Y	89		ug/L			310463	206108	0
Kr	83		ug/L			81	65	6
> In	115		ug/L			464469	290927	0
Ag	107	0.005	ug/L	0.001	14	27	63	10
Cd	111	-0.012	ug/L	0.011	94	218	109	23
Cd	114	-0.003	ug/L	0.001	28	68	24	20
Sb	121	0.019	ug/L	0.001	7	25	172	6
Sb	123	0.020	ug/L	0.001	5	20	139	5
Ba	135	3.747	ug/L	0.031	0	15	7111	1
[ Ba	137	3.757	ug/L	0.043	1	22	12097	0
> Tb	159		ug/L			467702	325088	0
Tl	205	0.002	ug/L	0.001	48	34	68	31
Pb	208	0.022	ug/L	0.001	6	244	879	4
Bi	209		ug/L			375879	241131	0
Th	232	0.005	ug/L	0.000	9	177	348	5
[ U	238	0.020	ug/L	0.001	3	29	978	4

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCV8

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 21:27:17

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	384692	1
[ Be	9	47.060	ug/L	0.892	1	2	18030	1
C	13		mg/L			5140	3423	0
Cl	37		mg/L			2489408	1831589	0
> Sc	45		ug/L			273386	184168	0
V-1	51	50.311	ug/L	0.706	1	2122	445110	1
V	51	50.305	ug/L	0.481	0	767	455002	1
Cr	52	49.959	ug/L	0.470	0	6539	390126	1
Cr	53	49.966	ug/L	0.540	1	305	47247	0
Mn	55	50.514	ug/L	0.287	0	899	663724	0
Co	59	50.240	ug/L	0.344	0	48	511456	0
> Ge	72		ug/L			392434	262087	0
Ni	60	49.781	ug/L	0.413	0	47	108015	0
Ni	62	48.973	ug/L	0.308	0	85	16264	0
Cu	63	50.168	ug/L	0.047	0	279	248780	0
Cu	65	50.054	ug/L	0.180	0	93	118968	0
Zn	66	49.359	ug/L	0.490	0	751	76686	0
Zn	67	48.670	ug/L	1.124	2	145	13045	2
Zn	68	51.462	ug/L	0.417	0	8019	61157	0
As-1	75	49.648	ug/L	0.222	0	-39	68416	0
As	75	50.127	ug/L	0.168	0	8849	75467	0
Se	82	51.777	ug/L	0.745	1	-12	7222	1
Se	78	53.630	ug/L	0.549	1	9032	25565	0
Mo	98	51.204	ug/L	0.462	0	1392	251183	1
Y	89		ug/L			310463	213307	1
Kr	83		ug/L			81	77	5
> In	115		ug/L			464469	309271	1
Ag	107	50.138	ug/L	0.046	0	27	480644	1
Cd	111	49.956	ug/L	0.272	0	218	123324	1
Cd	114	50.417	ug/L	0.418	0	68	296749	0
Sb	121	51.415	ug/L	0.627	1	25	447579	0
Sb	123	51.438	ug/L	0.771	1	20	338177	0
Ba	135	50.549	ug/L	0.332	0	15	101838	1
Ba	137	51.167	ug/L	0.530	1	22	174968	1
> Tb	159		ug/L			467702	344267	1
Tl	205	45.488	ug/L	0.319	0	34	1123427	0
Pb	208	46.946	ug/L	0.362	0	244	1572661	0
Bi	209		ug/L			375879	263220	1
Th	232	48.133	ug/L	0.487	1	177	2325106	1
U	238	48.784	ug/L	0.231	0	29	2515391	1

## ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB8

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, May 10, 2011 21:34:30

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\051011.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
> Li	6		ug/L			477376	382748	0
[ Be	9	0.007	ug/L	0.007	93	2	5	50
C	13		mg/L			5140	3470	1
Cl	37		mg/L			2489408	1799436	0
> Sc	45		ug/L			273386	180801	0
V-1	51	0.018	ug/L	0.015	78	2122	1563	7
V	51	-0.006	ug/L	0.004	67	767	457	6
Cr	52	0.041	ug/L	0.024	58	6539	4637	3
Cr	53	-0.034	ug/L	0.012	35	305	170	7
Mn	55	0.012	ug/L	0.003	21	899	749	4
Co	59	0.006	ug/L	0.000	7	48	88	5
> Ge	72		ug/L			392434	256693	0
Ni	60	0.003	ug/L	0.003	113	47	37	18
Ni	62	0.038	ug/L	0.010	26	85	68	4
Cu	63	-0.002	ug/L	0.004	204	279	173	11
Cu	65	0.002	ug/L	0.002	86	93	66	7
Zn	66	-0.255	ug/L	0.012	4	751	106	16
Zn	67	-0.235	ug/L	0.030	12	145	33	23
Zn	68	0.746	ug/L	0.051	6	8019	6038	0
As-1	75	0.014	ug/L	0.009	64	-39	-7	163
As	75	1.125	ug/L	0.007	0	8849	7317	0
Se	82	0.045	ug/L	0.066	146	-12	-2	427
Se	78	4.326	ug/L	0.047	1	9032	7451	0
Mo	98	-0.168	ug/L	0.003	1	1392	106	14
Y	89		ug/L			310463	212518	1
Kr	83		ug/L			81	61	13
> In	115		ug/L			464469	308243	0
Ag	107	0.009	ug/L	0.001	7	27	101	5
Cd	111	-0.012	ug/L	0.005	39	218	115	10
Cd	114	-0.003	ug/L	0.001	37	68	28	20
Sb	121	0.013	ug/L	0.003	24	25	131	20
Sb	123	0.015	ug/L	0.002	11	20	110	9
Ba	135	0.004	ug/L	0.001	24	15	18	11
Ba	137	0.005	ug/L	0.003	57	22	31	31
> Tb	159		ug/L			467702	339871	0
Tl	205	0.005	ug/L	0.001	11	34	142	9
Pb	208	0.005	ug/L	0.000	9	244	330	4
Bi	209		ug/L			375879	263442	0
Th	232	0.043	ug/L	0.003	7	177	2164	7
U	238	0.006	ug/L	0.001	18	29	316	17

*end package*

SU53 : 01428



**General Chemistry Raw Data  
Analyst Notes and Raw Data**

**ARI Job ID: SU53, SU73, SU74**

pH EPA 150.1  
Data Analyst: Kristine E. Tefteau  
Comments:  
Print Date: 4/29/11 10:40

No: 267  
Analyzed by: KET  
Date Analyzed: 4/28/11  
Time Analyzed: 12:10



ARI ID	Result	Q	RL	SPK	UAD
1. ICVL	7.03 ✓		0.01	7.00	0.03
2. SU27A	6.56 ✓		0.01		
3. SU27A DUP	6.55 ✓		0.01		0.01
4. SU27B	6.79 ✓		0.01		
5. SU27C	6.88 ✓		0.01		
6. CCVL	7.04 ✓		0.01	7.00	0.04
7. CCVL	7.01 ✓		0.01	7.00	0.01
8. SU45A	6.89 ✓		0.01		
9. SU45A DUP	6.92 ✓		0.01		0.03
10. SU45B	6.96 ✓		0.01		
11. SU45C	7.10 ✓		0.01		
12. SU47A	6.81 ✓		0.01		
13. SU47A DUP	6.84 ✓		0.01		0.03
14. SU47B	7.44 ✓		0.01		
15. CCVL	7.05 ✓		0.01	7.00	0.05
16. SU53A	6.30 ✓		0.01		
17. SU53A DUP	6.31 ✓		0.01		0.01
18. SU53B	7.45 ✓		0.01		
19. SU53C	6.51 ✓		0.01		
20. SU53D	7.63 ✓		0.01		
21. SU53E	6.55 ✓		0.01		
22. CCVL	7.04 ✓		0.01	7.00	0.04
23. SU53F	6.75 ✓		0.01		
24. CCVL	7.05 ✓		0.01	7.00	0.05



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# pH Logbook

Analyst: (W) Date: 4-28-11  
Meter ID: Accumet AR60 Time: 12:10

## Calibration

Date:	Buffer	Source	Lot #	pH	Temp.
4-28-11	2.00	Ricca	1006441	2.00	21.8
Time: 12:10	4.00	Fisher	102493	4.00	21.8
Analyst: (W)	7.00	Ricca	1008595	7.01	21.8
	10.00	Fisher	101681	10.04	21.9
	12.00	Ricca	1008441	11.96	21.8
	Verification	Fisher	106355	7.03	21.1
Electrolyte Check (analysts initials):					

## Sample pH

Sample ID	1	2	3	4	5	Temperature
ICV	7.03	7.03				21.1
SU27 A7	6.58	6.55				21.4
↓ B7	6.79	6.78				20.9
↓ C7	6.88	6.88				21.0
CCU	7.04	7.04				21.3
CCV	7.01	7.06				21.6
SU45 A7	6.89	6.92				20.1
↓ B7	6.96	6.97				20.0
↓ C7	7.10	7.09				20.2
SU47 A7	6.81	6.84				20.0
↓ B7	7.44	7.47				20.2
CCV	7.05	7.05				21.8
SU52 K4	6.91	6.92			BOD	17.5
↓ L4	7.33	7.34			BOD	17.5
↓ M4	7.36	7.36			BOD	15.6
↓ N4	7.23	7.23			BOD	15.0
↓ O4	6.83	6.61	6.51	6.47	BOD	17.5
SU53 A1	6.30	6.31				21.8
↓ B1	7.45	7.49				20.2
↓ C1	6.51	6.51				20.7
↓ D1	7.63	7.63				21.6
↓ E1	6.55	6.55				21.5
CCV	7.04	7.04				22.0

RBT  
17:50



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# pH Logbook

Analyst: \_\_\_\_\_ Date: \_\_\_\_\_

Meter ID: Accumet AR60 Time: \_\_\_\_\_

## Calibration

Date:	Buffer	Source	Lot#	pH	Temp.
Time:	2.00				
Analyst:	4.00				
	7.00				
	10.00				
	12.00				
	Verification				
Electrolyte Check (analysts initials):					

## Sample pH

Sample ID	1	2	3	4	5	Temperature
ICV						
SU53 F1	6.75	6.76				21.6
CCV	7.05	7.05				22.5
CCV						
CCV						

*continued from  
page 01330*

*KST  
4/28/11*

5-4-11

**TOTAL SUSPENDED SOLIDS / VOLATILE SUSPENDED SOLIDS (TSS / TVSS)**

Methods : SM 2540 D-97, 2540 E-97

DATE: 5/3/2011

ANALYST: CDE 14:25

Analytical Balance: 1123230597

Drying Ovens: 12  
Muffle Furnace: NA

SAMPLE ID	DISH #	filtered (mL)	TARE WT (grams)	DRY WT 104C (grams)				grams to 1000	DryWT (mg)	TSS (mg/L)	mL =	mg/L TSS				LOI (mg)	TVSS (mg/l)
				1	2	3	4					1	2	3	4		
<p><b>LCS source: Cellulose, MP Biomedicals Lot# 6399J</b></p> <p>TSS (mg/l) calculated as:            Final dry wt (mg) = (minimum Dry Wt - Tare Wt)*1000            TSS = [(Final Dry Wt)/ ml Sample ] * 1000            if dry wt &lt; 1 mg, TSS = &lt;1mg / mL sample * 1000 with "&lt;" flag</p> <p>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 &lt; 1mg, TVSS = &lt;1mg / mL sample * 1000 with "&lt;" flag</p>																	
BLANK		1000	0.1162	0.1162	STOP	STOP	0.0	< 1									
LCS # 574-9		1000	0.1187	0.1683	STOP	STOP	49.6	49.6	99.2%	% Recovery							
SU45 A8		180	0.1187	0.1380	STOP	STOP	19.3	107.2									
SU45 A8 dup		180	0.1185	0.1384	STOP	STOP	19.7	108.4									
RPD = 2.0%											RPD = NA						
SU45 B8		450	0.1167	0.1330	STOP	STOP	16.1	35.8									
SU45 C8		570	0.1166	0.1266	STOP	STOP	10.0	17.5									
SU45 D1		470	0.1162	0.1525	STOP	STOP	36.2	77.0									
SU47 A8		620	0.1154	0.1439	STOP	STOP	28.5	46.0									
SU47 B8		730	0.1188	0.1464	STOP	STOP	27.6	37.8									
SU53 A2		925	0.1160	0.1201	STOP	STOP	3.9	4.2									
SU53 B2		965	0.1179	0.1220	STOP	STOP	4.0	4.1									
SU53 C2		950	0.1179	0.1205	STOP	STOP	2.5	2.6									
SU53 D2		980	0.1186	0.1304	STOP	STOP	11.8	12.0									
SU53 E2		960	0.1185	0.1206	STOP	STOP	2.1	2.2									
SU53 F2		600	0.1194	0.1333	STOP	STOP	13.9	23.2									
SU52 A1		920	0.1190	0.1264	STOP	STOP	7.3	7.9									
SU62 A2 dup		915	0.1168	0.1235	STOP	STOP	6.7	7.3									
RPD = 7.9%											RPD = NA						
SU62 B1-2		1000	0.1170	0.1171	STOP	STOP	0.1	< 1									
SU62 C1-2		1000	0.1169	0.1174	STOP	STOP	0.5	< 1									

**TOTAL SUSPENDED SOLIDS / VOLATILE SUSPENDED SOLIDS (TSS / TVSS)**

Methods : SM 2540 D-97, 2540 E-97

DATE: 5/3/2011

ANALYST: CDE 14:25

Instrumentation

Drying Ovens: 12

NA

Analytical Balance: 1123230597

SAMPLE ID	DISH #	filtered (mL)	TARE WT (grams)	DRY WT 104C (grams)				grams to 1000	DryWT (mg)	TSS (mg/L)	mL =	50 mg/L TSS						
				1	2	3	4					1	2	3	4			
SU64 A3		470	0.1162	0.1365	0.1365	STOP	STOP	20.3	43.2									
SU64 A3 dup		470	0.1181	0.1386	0.1387	STOP	STOP	20.5	43.6									
LCS source: Cellulose, MP Biomedicals Lot# 6398J											RPD = 0.9%							
SU85 A1		940	0.1157	0.1221	0.1221	STOP	STOP	6.4	6.8									
SU74 A8		910	0.1174	0.1206	0.1206	STOP	STOP	3.2	3.5									
SU74 B8		930	0.1170	0.1192	0.1192	STOP	STOP	2.2	2.4									
SU74 C1		885	0.1194	0.1227	0.1227	STOP	STOP	3.3	3.7									
LCS source: Cellulose, MP Biomedicals Lot# 6398J											RPD = NA							

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

make no entries to shaded cells they are calculated !!

SU58 : 01434



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# TOTAL SUSPENDED (TSS) / TOTAL VOLATILE SUSPENDED SOLID (TVSS) BENCHSHEET

Analyst: <i>WCK</i>		Date/Time: <i>5-3-11 14:25</i>	Oven #: <i>12</i>	Muffle Furnance: <i>N/A</i>	Balance: <i>1123230597</i>				
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 "<" 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 "<" flag							
LCS (Cellulose from MP Biochemicals) Lot # <i>6398J</i>		CV-02	CV-02	CV-02	CV-02				
Cal Weight ID		CV-02	CV-02	CV-02	CV-02				
Date & Time:		<i>5-3-11 14:24</i>	<i>5-3-11 14:24</i>						
Cal Weight (10.0000g):		<i>10.0000 cal</i>	<i>10.0000 cal</i>						
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	P1000	1000	0.1162	0.1162	0.1162				
LCS # 574-9	P1933	↓	0.1187	0.1683	0.1683				
SU45 A8	39	180	0.1187	0.1380	0.1380				
A8A	35	↓	0.1185	0.1384	0.1382				
B8	36	450	0.1167	0.1330	0.1328				
C8	387	570	0.1166	0.1266	0.1266				
D1	398	470	0.1162	0.1525	0.1524				
SU47 A8	389	620	0.1154	0.1439	0.1439				
B8	340	730	0.1188	0.1464	0.1463				
SU53 A2	481	925	0.1160	0.1201	0.1199				
B2	442	965	0.1179	0.1220	0.1219				
C2	443	950	0.1179	0.1205	0.1204				
D2	444	980	0.1186	0.1304	0.1306				
E2	445	960	0.1185	0.1206	0.1206				
F2	446	600	0.1194	0.1333	0.1333				
SU62 A1	467	920	0.1190	0.1264	0.1263				
A2AP	488	915	0.1168	0.1235	0.1235				
B12	489	1000	0.1170	0.1171	0.1172				
C12	490	↓	0.1169	0.1174	0.1174				
SU64 A3	501	470	0.1162	0.1365	0.1365				
A3AP	514	↓	0.1181	0.1586	0.1587				

6054F

05050 : 01435



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# TOTAL SUSPENDED (TSS) / TOTAL VOLATILE SUSPENDED SOLID (TVSS) BENCHSHEET

Analyst:	Date/Time:	Oven #:	Muffle Furnance:	Balance:					
MS	5-3-11			1123230597					
Dry at 104 °C (12-24 hrs) then combust at 550 °C for 30 min. Record Weights to 4 pieces 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 "<" flag									
LCS (Cellulose from MP Biochemicals) Lot # 6398J 0.0500 Gram to 1000 mL = 50 mg / L TSS									
Cal Weight ID	CV-02	CV-02	CV-02	CV-02					
Date & Time:	CV-02								
Cal Weight (10.0000g):	CV-02								
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									
SU85 A1	PA953	940	0.1157	0.1221	0.1221				
SU74 A8	14	910	0.1174	0.1206	0.1206				
V B8	15	930	0.1170	0.1192	0.1192				
V C1	16	885	0.1194	0.1227	0.1227				
5-3-11 5-3-11 CV-02									

SU53: 01436



pH EPA 150.1

Data Analyst: Kristine E. Tefteau

Comments:

Print Date: 5/ 2/11 14:17

No: 1024

Analyzed by: KET

Date Analyzed: 4/29/11

Time Analyzed: 17:12

ARI ID	Result	Q	RL	SPK	UAD
1. ICVL	6.98	.	0.01	7.00	0.02
2. SU73A	6.92	.	0.01		
3. SU73A DUP	6.94	.	0.01		0.02
4. SU73B	6.94	/	0.01		
5. SU74A	5.91	/	0.01		
6. SU74A DUP	5.91	/	0.01		0.00
7. SU74B	6.02	/	0.01		
8. CCVL	7.05	/	0.01	7.00	0.05
9. SU74C	5.87	/	0.01		
10. CCVL	7.05		0.01	7.00	0.05



# pH Logbook

Analyst: CAW Date: 4-29-11

Meter ID: Orion Model 728 Time: 11:30

### Calibration

Date:	Buffer	Source	Lot #	pH	Temp.
Time:	2.00	Ricca	1006441	2.00	22.1
Analyst:	4.00	Fisher	102493	4.00	22.1
	7.00	Ricca	1008598	7.01	22.1
	10.00	Fisher	101681	10.04	22.1
	12.00	Ricca	1008411	12.09	22.1
	Verification	Fisher	106355	7.05	21.9

### Sample pH

Sample ID	1	2	3	4	5	Temperature
ICV	6.98	6.98				23.0
SU69 A3	6.74	6.78				17.6
B3	7.69	7.72				17.5
C3	8.57	8.59	6.23	6.25		17.8
D3	8.15	8.15				17.7
E3	8.30	8.32				18.0
F3	8.55	8.57	6.23	6.25		18.3
SU73 A1	6.92	6.94				21.3
B1	6.94	6.96				21.6
SU74 A1	5.91	5.91				21.1
B1	6.02	6.01				21.9
CCV	7.05	7.04				23.3
SU74 C1	5.87	5.89				21.6
CCV	7.05	7.05				23.2
CCV						

KBT  
17:12

KBT  
4/29/11

KBT  
4/29/11

5-4-11

**TOTAL SUSPENDED SOLIDS / VOLATILE SUSPENDED SOLIDS (TSS / TVSS)**  
**Methods : SM 2540 D-97, 2540 E-97**  
**DATE: 5/4/2011**  
**ANALYST: CDE 13:05**

**Instrumentation**  
**Drying Ovens: 12**  
**Muffle Furnace: NA**  
**Analytical Balance: 1123230597**

**TSS (mg/l) calculated as:**  
 Final dry wt (mg) = (minimum Dry Wt - Tare Wt)\*1000  
 TSS = [(Final Dry Wt)/ ml Sample ] \* 1000  
 if dry wt < 1 mg, 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**

SAMPLE ID	DISH #	filtered (mL)	TARE WT (grams)		DRY WT 104C (grams)				1000 DryWT (mg)	TSS (mg/L)	mL =	ASH WT 550C (grams)				LOI (mg)	TVSS (mg/l)	
			CV-02	CV-02	1	2	3	4				CV-02	CV-02	CV-02	CV-02			CV-02
Cal Weight ID Date & Time																		
Cal Wt (g) 10.0000																		
record weights to 4 places																		
BLANK		1000	0.1168	0.1166	0.1167	STOP	STOP	STOP	-0.2	<1								
LCS # 574-10		1000	0.1187	0.1671	0.1671	STOP	STOP	STOP	48.4	48.4						96.8%		
SU73 A8		910	0.1160	0.1225	0.1224	STOP	STOP	STOP	6.4	7.0								
SU73 B8		915	0.1181	0.1244	0.1244	STOP	STOP	STOP	6.3	6.9								
SU94 A4		940	0.1170	0.1171	0.1169	STOP	STOP	STOP	-0.1	<1.1								
SU98 A8		200	0.1165	0.1293	0.1291	STOP	STOP	STOP	12.6	63.0								
SU98 A8 dup		200	0.1169	0.1307	0.1306	STOP	STOP	STOP	13.7	68.5								
											RPD = 8.4%						RPD = NA	

SU98 B8		400	0.1165	0.1226	0.1225	STOP	STOP	STOP	6.0	15.0								
SV03 A1		770	0.1180	0.1229	0.1229	STOP	STOP	STOP	4.9	6.4								
SV13 A1		885	0.1166	0.1169	0.1169	STOP	STOP	STOP	0.3	<1.1								
SV13 B1		930	0.1169	0.1176	0.1174	STOP	STOP	STOP	0.5	<1.1								
SV22 A1		100	0.1187	0.1350	0.1349	STOP	STOP	STOP	16.2	162.0								
SV22 A1 dup		100	0.1174	0.1340	0.1339	STOP	STOP	STOP	16.5	165.0								
											RPD = 1.8%						RPD = NA	

SV24 C1		350	0.1171	0.1257	0.1256	STOP	STOP	STOP	8.5	24.3								
SV24 C1 dup		350	0.1166	0.1252	0.1251	STOP	STOP	STOP	8.5	24.3								
											RPD = 0.0%						RPD = NA	
SV35 B1		930	0.1183	0.1184	0.1183	STOP	STOP	STOP	0.0	<1.1								
											RPD = 0.0%						RPD = NA	

05-4-11 CMK



Analytical Resources, Incorporated  
Analytical Chemists and Consultants

# TOTAL SUSPENDED (TSS) / TOTAL VOLATILE SUSPENDED SOLID (TVSS) BENCHSHEET

Analyst:	Date/Time:	5-4-11	13:05	Oven #:	12	Muffle Furnance:	N/A	Balance:	1123230597
Sample ID	Dish #	Filtered mL	Tare	Dry Weight 104°C (grams)	Dry Wt mg	TSS	Ash Weight 550°C	LOI - mg	TVSS mg/L
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 "<" flag									
LCS (Cellulose from MP Biochemicals) Lot # 6398J 0.0500 Gram to 1000 mL = 50 mg / L TSS									
BLANK	P957	1000	0.1168	0.1225	0.1224		CV-02		
SV73 A <sup>B</sup>	P1002	910	0.1160	0.1225	0.1224		CV-02		
↓ B <sup>B</sup>	P1003	915	0.1181	0.1244	0.1244				
SV94 A <sup>4</sup>	P1004	940	0.1170	0.1171	0.1169				
SV98 A <sup>6</sup>	P1005	200	0.1165	0.1293	0.1291				
↓ A <sup>B</sup> dp	P1006	↓	0.1169	0.1307	0.1306				
↓ B <sup>B</sup>	P1007	400	0.1165	0.1226	0.1225				
SV03 A <sup>1</sup>	P1008	770	0.1180	0.1229	0.1229				
SV13 A <sup>1</sup>	P1009	885	0.1166	0.1169	0.1169				
↓ B <sup>1</sup>	P1010	930	0.1169	0.1176	0.1174				
SV22 A <sup>1</sup>	P1011	100	0.1187	0.1350	0.1349				
↓ A <sup>1</sup> dp	P1012	↓	0.1174	0.1340	0.1339				
SV24 C <sup>1</sup>	P1013	350	0.1171	0.1257	0.1256				
↓ C <sup>1</sup> dp	P1014	↓	0.1166	0.1252	0.1251				
SV35 B <sup>1</sup>	P1015	930	0.1183	0.1184	0.1183				
CMK 5-4-11									

pH EPA 150.1

Data Analyst: Kristine E. Tefteau

Comments:

Print Date: 5/ 2/11 14:17

No: 1024

Analyzed by: KET

Date Analyzed: 4/29/11

Time Analyzed: 17:12

ARI ID	Result	Q	RL	SPK	UAD
1. ICVL	6.98	.	0.01	7.00	0.02
2. SU73A	6.92	.	0.01		
3. SU73A DUP	6.94		0.01		0.02
4. SU73B	6.94	/	0.01		
5. SU74A	5.91	/	0.01		
6. SU74A DUP	5.91	✓	0.01		0.00
7. SU74B	6.02	✓	0.01		
8. CCVL	7.05	✓	0.01	7.00	0.05
9. SU74C	5.87	✓	0.01		
10. CCVL	7.05		0.01	7.00	0.05



# pH Logbook

Analyst: CAW Date: 4-29-11

Meter ID: Orion Model 728 Time: 11:30

### Calibration

Date:	Buffer	Source	Lot #	pH	Temp.
Time:	2.00	Ricca	1006441	2.00	22.1
Analyst:	4.00	Fisher	102493	4.00	22.1
	7.00	Ricca	1008598	7.01	22.1
	10.00	Fisher	101681	10.04	22.1
	12.00	Ricca	1008411	12.09	22.1
	Verification	Fisher	106355	7.05	21.9

### Sample pH

Sample ID	1	2	3	4	5	Temperature
ICV	6.98	6.98				23.0
SU69 A3	6.74	6.78				17.6
B3	7.69	7.72				17.5
C3	8.57	8.59	6.23	6.25		17.8
D3	8.15	8.15				17.7
E3	8.30	8.32				18.0
F3	8.55	8.57	6.23	6.25		18.3
SU73 A1	6.92	6.94				21.3
B1	6.94	6.96				21.6
SU74 A(1)	5.91	5.91				21.1
B1	6.02	6.01				21.9
CCV	7.05	7.04				23.3
SU74 C1	5.87	5.89				21.6
CCV	7.05	7.05				23.2
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(45deg); opacity: 0.5;"></div>						
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(-45deg); opacity: 0.5;"></div>						
CCV						

KBT  
11:12

KBT  
4/29/11

KBT  
4/29/11

5-4-11

**TOTAL SUSPENDED SOLIDS / VOLATILE SUSPENDED SOLIDS (TSS / TVSS)**

Methods : SM 2540 D-97, 2540 E-97

DATE: 5/3/2011

ANALYST: CDE 14:25

Instrumentation

Drying Ovens: 12

Analytical Balance: 1123230597

Muffle Furnace: NA

SAMPLE ID	DISH #	filtered (mL)	TARE WT (grams)	DRY WT 104C (grams)				grams to 1000	DryWT (mg)	TSS (mg/L)	mL =	ASH WT 550C (grams)				LOI (mg)	TVSS (mg/l)
				1	2	3	4					1	2	3	4		
<p><b>LCS source: Cellulose, MP Biomedicals Lot# 6399J</b></p> <p>TSS (mg/l) calculated as:            Final dry wt (mg) = (minimum Dry Wt - Tare Wt)*1000            TSS = [(Final Dry Wt)/ml Sample] * 1000            if dry wt &lt; 1mg, TSS = &lt;1mg / mL sample * 1000            with "&lt;" flag</p> <p>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 &lt; 1mg, TVSS = &lt;1mg / mL sample * 1000            with "&lt;" flag</p>																	
<p><b>50 mg/L TSS</b></p>																	
BLANK		1000	0.1162	0.1162	STOP	STOP	STOP	0.0	< 1								
LCS # 574-9		1000	0.1187	0.1683	0.1683	STOP	STOP	49.6	99.2%								
SU45 A8		180	0.1187	0.1380	0.1380	STOP	STOP	19.3									
SU45 A8 dup		180	0.1185	0.1382	0.1382	STOP	STOP	19.7									
<p>RPD = 2.0%</p>																	
SU45 B8		450	0.1167	0.1330	0.1328	STOP	STOP	16.1									
SU45 C8		570	0.1166	0.1266	0.1266	STOP	STOP	10.0									
SU45 D1		470	0.1162	0.1525	0.1524	STOP	STOP	36.2									
SU47 A8		620	0.1154	0.1439	0.1439	STOP	STOP	28.5									
SU47 B8		730	0.1188	0.1464	0.1464	STOP	STOP	27.6									
SU53 A2		925	0.1160	0.1201	0.1199	STOP	STOP	3.9									
SU53 B2		965	0.1179	0.1220	0.1219	STOP	STOP	4.0									
SU53 C2		950	0.1179	0.1205	0.1204	STOP	STOP	2.5									
SU53 D2		980	0.1186	0.1304	0.1306	STOP	STOP	11.8									
SU53 E2		960	0.1185	0.1206	0.1206	STOP	STOP	2.1									
SU53 F2		600	0.1194	0.1333	0.1333	STOP	STOP	13.9									
SU52 A1		920	0.1190	0.1264	0.1263	STOP	STOP	7.3									
SU62 A2 dup		915	0.1168	0.1235	0.1235	STOP	STOP	6.7									
<p>RPD = 7.9%</p>																	
SU62 B1-2		1000	0.1170	0.1171	0.1172	STOP	STOP	0.1	< 1								
SU62 C1-2		1000	0.1169	0.1174	0.1174	STOP	STOP	0.5	< 1								
<p>RPD = NA</p>																	

**TOTAL SUSPENDED SOLIDS / VOLATILE SUSPENDED SOLIDS (TSS / TVSS)**

Methods : SM 2540 D-97, 2540 E-97

DATE: 5/3/2011

ANALYST: CDE 14:25

Instrumentation

Drying Ovens: 12

Analytical Balance: 1123230597

Muffle Furnace: NA

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

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

SAMPLE ID		DISH #	filtered (mL)	TARE WT (grams)	DRY WT 104C (grams)		0.05 grams to	1000	mL =	mg/L TSS					
					1	2	3	4	DryWT (mg)	TSS (mg/L)	ASH WT 550C (grams)		LOI (mg)	TVSS (mg/l)	
					1	2	3	4			1	2	3	4	
SU64 A3			470	0.1162	0.1365	0.1365	STOP	STOP	20.3	43.2					
SU64 A3 dup			470	0.1181	0.1386	0.1387	STOP	STOP	20.5	43.6					
LCS source: Cellulose, MP Biomedicals Lot# 6398J										RPD = 0.9%				RPD = NA	
SU85 A1			940	0.1157	0.1221	0.1221	STOP	STOP	6.4	6.8					
SU74 A8			910	0.1174	0.1206	0.1206	STOP	STOP	3.2	3.5					
SU74 B8			930	0.1170	0.1192	0.1192	STOP	STOP	2.2	2.4					
SU74 C1			885	0.1194	0.1227	0.1227	STOP	STOP	3.3	3.7					

SU53 : 01444





Analytical Resources, Incorporated  
Analytical Chemists and Consultants

# TOTAL SUSPENDED (TSS) / TOTAL VOLATILE SUSPENDED SOLID (TVSS) BENCHSHEET

Analyst: <i>AK</i>		Date/Time: 5-3-11	Oven #: 14:25	Oven #:	Muffle Furnace: <i>N/A</i>	Balance: 1123230597				
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 "<" 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 "<" flag						
LCS (Cellulose from MP Biochemicals) Lot # 6398J		CV-02	CV-02	CV-02	CV-02	CV-02				
Cal Weight ID		CV-02	CV-02	CV-02	CV-02	CV-02				
Date & Time:		CV-02	CV-02	CV-02	CV-02	CV-02				
Cal Weight (10.0000g):		CV-02	CV-02	CV-02	CV-02	CV-02				
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	3		1	2	
BLANK	P1000	1000	0.1162	0.1162	0.1162					
CS# 5749	1933	↓	0.1187	0.1683	0.1683					
SU45 A <sup>B</sup>	39	180	0.1187	0.1380	0.1380					
A <sup>B</sup> B <sup>A</sup>	35	↓	0.1185	0.1384	0.1382					
B <sup>A</sup>	36	450	0.1167	0.1330	0.1328					
C <sup>B</sup>	387	570	0.1166	0.1266	0.1266					
↓	388	470	0.1162	0.1525	0.1524					
SU47 A <sup>B</sup>	389	620	0.1154	0.1439	0.1439	5-3-11 <i>check</i>				
↓	390	730	0.1188	0.1464	0.1463	0.1464				
SU53 A <sup>2</sup>	401	925	0.1160	0.1201	0.1199					
B <sup>2</sup>	402	965	0.1179	0.1220	0.1219					
C <sup>2</sup>	403	950	0.1179	0.1205	0.1204					
D <sup>2</sup>	404	980	0.1186	0.1304	0.1306					
E <sup>2</sup>	405	960	0.1185	0.1206	0.1206					
F <sup>2</sup>	406	600	0.1194	0.1333	0.1333					
SU62 A <sup>1</sup>	407	920	0.1190	0.1264	0.1263					
↓	408	915	0.1168	0.1235	0.1235					
A <sup>2</sup> B <sup>1-2</sup>	409	1000	0.1170	0.1171	0.1172					
↓	410	↓	0.1169	0.1174	0.1174					
SU64 A <sup>3</sup>	501	470	0.1162	0.1365	0.1365					
↓	502	↓	0.1181	0.1386	0.1387					

SU53 : 01445



May 19, 2011

Ms. Sue Dunninghoo  
Analytical Resources Incorporated  
4611 South 134<sup>th</sup> Place  
Tukwila, WA 98168-3240


Dear Ms. Dunninghoo,

Enclosed are the results for Frontier Analytical Laboratory project **6742**. This corresponds to your **Lora Lake Apts RI** project under ARI project number **SU53**. Three aqueous samples were received on 5/4/2011 in good condition. These samples were extracted and analyzed by EPA Method 1613 for tetra through octa chlorinated dibenzo dioxins and furans. The 2005 World Health Organizations toxic equivalency factors (TEFs) were used to calculate the toxic equivalents (TEQ) on your report. Analytical Resources Incorporated requested a Level IV data package and a turnaround time of fifteen business days for project **6742**.

The following Level IV report consists of an Analytical Data section, a Sample Receipt section, a Laboratory Raw Data section, and an Instrument Raw Data section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your chain of custody, our sample login form and the sample photo. The Laboratory Raw Data section contains our project request sheet, a percent solids sheet, an extraction bench sheet and the cleanup bench sheet. The instrument raw data section contains three sub-sections; the sample results section, the initial calibration section and the continuing/ending calibration section. The sample results sub-section consists of the quantitation summary forms with chromatograms for all samples and QC. The initial calibration sub-section consists of the individual quantitation summary forms and chromatograms for each point of the initial calibration curve as well as an overall quantitation summary form of the initial calibration curve. The continuing/ending calibration sub-section consists of the quantitation summary forms and chromatograms for all beginning and ending calibration injections associated with the samples and QC. You also requested Electronic Data Deliverables (EDD) for this project. The EDD and Level I summary have been sent to you via email. The Level IV report has been sent to you on compact disk. A hardcopy of the data package will not be forwarded unless specifically requested. The attached results are specifically for the samples referenced in this report only. These results meet all NELAC requirements and shall not be reproduced except in full.

If you have any questions regarding project **6742**, please feel free to contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,



Bradley B. Silverbush  
Director of Operations

## Frontier Analytical Laboratory

### Sample Tracking Log

FAL Project ID: 6742

Received on: 05/04/2011

Project Due: 05/26/2011 Storage: R1

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
6742-001-SA	1	SU53	MW5042811	EPA 1613 D/F	Aqueous	04/28/2011	09:15 am	04/27/2012
6742-002-SA	1	SU53	MW4042811	EPA 1613 D/F	Aqueous	04/28/2011	01:30 pm	04/27/2012
6742-003-SA	1	SU53	MW14042811	EPA 1613 D/F	Aqueous	04/28/2011	03:10 pm	04/27/2012

FAL Sample ID	Notes
6742-001-SA	'Using sample ID from COC for our tracking purposes.'
6742-002-SA	'Using sample ID from COC for our tracking purposes.'

EPA Method 1613  
PCDD/F



FAL ID: 6742-001-MB  
Client ID: Method Blank  
Matrix: Aqueous  
Batch No: X2292

Date Extracted: 05-16-2011  
Date Received: NA  
Amount: 1.000 L

ICal: PCDDFAL3-3-7-11  
GC Column: DB5  
Units: pg/L

Acquired: 05-18-2011  
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.791		-	0.215				
1,2,3,7,8-PeCDD	ND	1.12		-	0.317				
1,2,3,4,7,8-HxCDD	ND	1.42		-	0.326				
1,2,3,6,7,8-HxCDD	ND	1.73		-	0.424	Total TCDD	ND	0.791	
1,2,3,7,8,9-HxCDD	ND	1.55		-	0.367	Total PeCDD	ND	1.12	
1,2,3,4,6,7,8-HpCDD	ND	3.06		-	0.497	Total HxCDD	ND	1.73	
OCDD	ND	5.85		-	1.41	Total HpCDD	ND	3.06	
2,3,7,8-TCDF	ND	0.676		-	0.209				
1,2,3,7,8-PeCDF	ND	0.977		-	0.235				
2,3,4,7,8-PeCDF	ND	1.12		-	0.243				
1,2,3,4,7,8-HxCDF	ND	1.09		-	0.255				
1,2,3,6,7,8-HxCDF	ND	0.948		-	0.248				
2,3,4,6,7,8-HxCDF	ND	1.17		-	0.262				
1,2,3,7,8,9-HxCDF	ND	1.25		-	0.258	Total TCDF	ND	0.676	
1,2,3,4,6,7,8-HpCDF	ND	1.52		-	0.324	Total PeCDF	ND	1.12	
1,2,3,4,7,8,9-HpCDF	ND	2.37		-	0.490	Total HxCDF	ND	1.25	
OCDF	ND	4.39		-	0.805	Total HpCDF	ND	2.37	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	82.2	25.0 - 164	
13C-1,2,3,7,8-PeCDD	72.7	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	82.9	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	91.3	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	95.7	23.0 - 140	
13C-OCDD	79.8	17.0 - 157	
13C-2,3,7,8-TCDF	83.0	24.0 - 169	
13C-1,2,3,7,8-PeCDF	85.4	24.0 - 185	
13C-2,3,4,7,8-PeCDF	81.4	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	89.8	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	97.3	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	83.8	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	74.4	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	81.8	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	77.2	26.0 - 138	
13C-OCDF	71.0	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD	80.3	35.0 - 197	
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- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst: [Signature]  
Date: 5/19/11

Reviewed By: [Signature]  
Date: 5/19/11

EPA Method 1613  
PCDD/F



FAL ID: 6742-001-OPR  
Client ID: OPR  
Matrix: Aqueous  
Batch No: X2292

Date Extracted: 05-16-2011  
Date Received: NA  
Amount: 1.000 L

ICal: PCDDFAL3-3-7-11  
GC Column: DB5  
Units: ng/ml

Acquired: 05-18-2011  
2005 WHO TEQ: NA

Compound	Conc	QC Limits	Qual
2,3,7,8-TCDD	10.6	6.70 - 15.8	
1,2,3,7,8-PeCDD	58.7	35.0 - 71.0	
1,2,3,4,7,8-HxCDD	53.8	35.0 - 82.0	
1,2,3,6,7,8-HxCDD	54.0	38.0 - 67.0	
1,2,3,7,8,9-HxCDD	55.4	32.0 - 81.0	
1,2,3,4,6,7,8-HpCDD	54.4	35.0 - 70.0	
OCDD	118	78.0 - 144	
2,3,7,8-TCDF	12.2	7.50 - 15.8	
1,2,3,7,8-PeCDF	54.4	40.0 - 67.0	
2,3,4,7,8-PeCDF	53.8	34.0 - 80.0	
1,2,3,4,7,8-HxCDF	52.0	36.0 - 67.0	
1,2,3,6,7,8-HxCDF	52.4	42.0 - 65.0	
2,3,4,6,7,8-HxCDF	51.1	35.0 - 78.0	
1,2,3,7,8,9-HxCDF	51.7	39.0 - 65.0	
1,2,3,4,6,7,8-HpCDF	53.8	41.0 - 61.0	
1,2,3,4,7,8,9-HpCDF	52.5	39.0 - 69.0	
OCDF	99.3	63.0 - 170	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	73.9	20.0 - 175	
13C-1,2,3,7,8-PeCDD	58.5	21.0 - 227	
13C-1,2,3,4,7,8-HxCDD	61.6	21.0 - 193	
13C-1,2,3,6,7,8-HxCDD	67.2	25.0 - 163	
13C-1,2,3,4,6,7,8-HpCDD	62.4	26.0 - 166	
13C-OCDD	45.8	13.0 - 198	
13C-2,3,7,8-TCDF	76.7	22.0 - 152	
13C-1,2,3,7,8-PeCDF	64.9	21.0 - 192	
13C-2,3,4,7,8-PeCDF	66.7	13.0 - 328	
13C-1,2,3,4,7,8-HxCDF	64.0	19.0 - 202	
13C-1,2,3,6,7,8-HxCDF	64.8	21.0 - 159	
13C-2,3,4,6,7,8-HxCDF	64.9	22.0 - 176	
13C-1,2,3,7,8,9-HxCDF	55.9	17.0 - 205	
13C-1,2,3,4,6,7,8-HpCDF	54.0	21.0 - 158	
13C-1,2,3,4,7,8,9-HpCDF	50.5	20.0 - 186	
13C-OCDF	44.3	13.0 - 198	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 83.3 31.0 - 191

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst: [Signature]  
Date: 5/19/11

Reviewed By: [Signature]  
Date: 5/19/11

EPA Method 1613  
PCDD/F



FAL ID: 6742-001-SA  
Client ID: MW5042811  
Matrix: Aqueous  
Batch No: X2292

Date Extracted: 05-16-2011  
Date Received: 05-04-2011  
Amount: 1.018 L

ICal: PCDDFAL3-3-7-11  
GC Column: DB5  
Units: pg/L

Acquired: 05-18-2011  
2005 WHO TEQ: 0.325

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.984		-	0.215				
1,2,3,7,8-PeCDD	ND	1.36		-	0.317				
1,2,3,4,7,8-HxCDD	ND	2.44		-	0.326				
1,2,3,6,7,8-HxCDD	ND	3.11		-	0.424	Total TCDD	ND	0.984	
1,2,3,7,8,9-HxCDD	ND	2.72		-	0.367	Total PeCDD	ND	1.36	
1,2,3,4,6,7,8-HpCDD	24.5	-	J	0.245	0.497	Total HxCDD	ND	3.11	
OCDD	139	-		0.0417	1.41	Total HpCDD	45.1	-	
2,3,7,8-TCDF	ND	0.487		-	0.209				
1,2,3,7,8-PeCDF	ND	1.02		-	0.235				
2,3,4,7,8-PeCDF	ND	1.17		-	0.243				
1,2,3,4,7,8-HxCDF	ND	1.18		-	0.255				
1,2,3,6,7,8-HxCDF	ND	1.11		-	0.248				
2,3,4,6,7,8-HxCDF	ND	1.26		-	0.262				
1,2,3,7,8,9-HxCDF	ND	1.29		-	0.258	Total TCDF	10.5	-	
1,2,3,4,6,7,8-HpCDF	3.50	-	J	0.0350	0.324	Total PeCDF	2.79	-	J
1,2,3,4,7,8,9-HpCDF	ND	2.14		-	0.490	Total HxCDF	5.23	-	J
OCDF	10.6	-	J	0.00318	0.805	Total HpCDF	12.2	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	82.6	25.0 - 164	
13C-1,2,3,7,8-PeCDD	73.3	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	81.2	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	89.9	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	90.0	23.0 - 140	
13C-OCDD	70.6	17.0 - 157	
13C-2,3,7,8-TCDF	86.4	24.0 - 169	
13C-1,2,3,7,8-PeCDF	84.8	24.0 - 185	
13C-2,3,4,7,8-PeCDF	81.6	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	82.4	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	85.6	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	83.2	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	75.6	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	79.0	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	71.8	26.0 - 138	
13C-OCDF	63.8	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 82.4 35.0 - 197

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst: [Signature]

Date: 5/19/11

Reviewed By: [Signature]

Date: 5/19/11

EPA Method 1613  
PCDD/F



FAL ID: 6742-002-SA  
Client ID: MW4042811  
Matrix: Aqueous  
Batch No: X2292

Date Extracted: 05-16-2011  
Date Received: 05-04-2011  
Amount: 1.035 L

ICal: PCDDFAL3-3-7-11  
GC Column: DB5  
Units: pg/L

Acquired: 05-18-2011  
2005 WHO TEQ: 0.0992

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.769		-	0.215				
1,2,3,7,8-PeCDD	ND	1.18		-	0.317				
1,2,3,4,7,8-HxCDD	ND	1.25		-	0.326				
1,2,3,6,7,8-HxCDD	ND	1.63		-	0.424	Total TCDD	ND	0.769	
1,2,3,7,8,9-HxCDD	ND	1.40		-	0.367	Total PeCDD	ND	1.18	
1,2,3,4,6,7,8-HpCDD	7.91	-	J	0.0791	0.497	Total HxCDD	ND	1.63	
OCDD	66.9	-		0.0201	1.41	Total HpCDD	18.4	-	J
2,3,7,8-TCDF	ND	0.677		-	0.209				
1,2,3,7,8-PeCDF	ND	0.965		-	0.235				
2,3,4,7,8-PeCDF	ND	1.09		-	0.243				
1,2,3,4,7,8-HxCDF	ND	1.05		-	0.255				
1,2,3,6,7,8-HxCDF	ND	1.00		-	0.248				
2,3,4,6,7,8-HxCDF	ND	1.11		-	0.262				
1,2,3,7,8,9-HxCDF	ND	1.14		-	0.258	Total TCDF	ND	0.677	
1,2,3,4,6,7,8-HpCDF	ND	2.05		-	0.324	Total PeCDF	ND	1.09	
1,2,3,4,7,8,9-HpCDF	ND	1.94		-	0.490	Total HxCDF	ND	1.14	
OCDF	ND	6.50		-	0.805	Total HpCDF	4.85	-	J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	82.8	25.0 - 164	
13C-1,2,3,7,8-PeCDD	70.2	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	80.3	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	85.0	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	85.8	23.0 - 140	
13C-OCDD	65.0	17.0 - 157	
13C-2,3,7,8-TCDF	85.0	24.0 - 169	
13C-1,2,3,7,8-PeCDF	81.7	24.0 - 185	
13C-2,3,4,7,8-PeCDF	79.3	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	81.7	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	83.8	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	81.2	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	74.9	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	73.5	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	69.1	26.0 - 138	
13C-OCDF	58.8	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 84.7 35.0 - 197

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst:

Date: 5/19/11

Reviewed By:

Date: 5/19/11



EPA Method 1613  
PCDD/F



FAL ID: 6742-003-SA  
Client ID: MW14042811  
Matrix: Aqueous  
Batch No: X2292

Date Extracted: 05-16-2011  
Date Received: 05-04-2011  
Amount: 1.040 L

ICal: PCDDFAL3-3-7-11  
GC Column: DB5  
Units: pg/L

Acquired: 05-18-2011  
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005		Compound	Conc	DL	Qual
				WHO Tox	MDL				
2,3,7,8-TCDD	ND	0.556		-	0.215				
1,2,3,7,8-PeCDD	ND	1.17		-	0.317				
1,2,3,4,7,8-HxCDD	ND	0.921		-	0.326				
1,2,3,6,7,8-HxCDD	ND	1.16		-	0.424	Total TCDD	ND	0.556	
1,2,3,7,8,9-HxCDD	ND	1.02		-	0.367	Total PeCDD	ND	1.17	
1,2,3,4,6,7,8-HpCDD	ND	1.49		-	0.497	Total HxCDD	ND	1.16	
OCDD	ND	4.98		-	1.41	Total HpCDD	ND	1.49	
2,3,7,8-TCDF	ND	0.490		-	0.209				
1,2,3,7,8-PeCDF	ND	0.770		-	0.235				
2,3,4,7,8-PeCDF	ND	0.836		-	0.243				
1,2,3,4,7,8-HxCDF	ND	1.12		-	0.255				
1,2,3,6,7,8-HxCDF	ND	1.09		-	0.248				
2,3,4,6,7,8-HxCDF	ND	1.19		-	0.262				
1,2,3,7,8,9-HxCDF	ND	1.19		-	0.258	Total TCDF	ND	0.490	
1,2,3,4,6,7,8-HpCDF	ND	0.994		-	0.324	Total PeCDF	ND	0.836	
1,2,3,4,7,8,9-HpCDF	ND	1.57		-	0.490	Total HxCDF	ND	1.19	
OCDF	ND	2.59		-	0.805	Total HpCDF	ND	1.57	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	91.6	25.0 - 164	
13C-1,2,3,7,8-PeCDD	81.5	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	88.7	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	93.6	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	91.4	23.0 - 140	
13C-OCDD	71.0	17.0 - 157	
13C-2,3,7,8-TCDF	92.2	24.0 - 169	
13C-1,2,3,7,8-PeCDF	90.2	24.0 - 185	
13C-2,3,4,7,8-PeCDF	89.5	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	90.1	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	91.1	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	89.2	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	83.4	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	80.3	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	74.0	26.0 - 138	
13C-OCDF	63.9	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 90.1 35.0 - 197

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst: [Signature]  
Date: 5/19/11

Reviewed By: [Signature]  
Date: 5/19/11

**SUBCONTRACTOR ANALYSIS REQUEST**  
 CUSTODY TRANSFER 04/29/11



6742  
 OAC

ARI Project: SU53

Laboratory: Frontier Analytical Laboratory  
 Lab Contact: BRAD SILVERBUSH  
 Lab Address: 5172 Hillside Circle  
 El Dorado Hills, CA 95762  
 Phone: 916-934-0900  
 Fax: 916-934-0999

ARI Client: Floyd Snider  
 Project ID: Lora Lake Apts RI  
 ARI PM: Sue Dunnihoo  
 Phone: 206-695-6207  
 Fax: 206-695-6201

Analytical Protocol: In-house  
 Special Instructions:

Requested Turn Around: **05/13/11**  
 Email Results (Y/N): **Yes**

**Limits of Liability.** Subcontractor is expected to perform all requested services in accordance with appropriate methodology following Standard Operating Procedures that meet standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the negotiated amount for said services. The agreement by the Subcontractor to perform services requested by ARI releases ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Subcontractor.

ARI ID	Client ID/ Add'l ID	Sampled	Matrix	Bottles	Analyses
11-9621-SU53A	MW5042811	04/28/11 09:15	Groundwater	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					
11-9623-SU53C	MW4042811	04/28/11 13:30	Groundwater	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					
11-9625-SU53E	MW14042811	04/28/11 15:10	Groundwater	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					

Carrier	UPS	Airbill	178326950150868222	Date	5/3/11
Relinquished by	Company	Company	ARI	Date	5/3/11
Received by	Company	Company	FAC	Date	5/4/11
				Time	1509
				Time	10:30

## Frontier Analytical Laboratory

### Sample Login Form

FAL Project ID: **6742**

Client:	Analytical Resources Inc. Sue Dunnihoo
Client Project ID:	SU53
Date Received:	05/04/2011
Time Received:	10:30 am
Received By:	BS
Logged In By:	KZ
# of Samples Received:	3
Duplicates:	3
Storage Location:	R1

Method of Delivery:	UPS
Tracking Number:	1z8326950150933633
Shipping Container Received Intact	Yes
Custody seals(s) present?	Yes
Custody seals(s) intact?	Yes
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	Yes
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	04/27/2012
Adequate Sample Volume	Yes
pH Range	Between 4 and 9
Anomalies or additional comments:	
L4 & EDD.	



# Frontier Analytical Laboratory

## PROJECT REQUEST SHEET

Project #: 6742                      Sample #: 1-3                      Client Manager: BS  
 Client: Analytical Resources Inc. Sue Dunning                      Hold Time: 04/27/2012  
 Matrix: Aqueous                      Extraction Batch: 2292                      Due Date: 05/26/2011  
 Method: EPA 1613 D/F                      Storage: R1  
 SOP: SOPs: EP2A Rev.9 IP2A Rev.10

**COMMENTS/INSTRUCTIONS:** *w/o cap*

Sample	Full Weight (g)	Empty Weight (g)
6742-001-0001-SA	<i>1514.90</i>	<i>496.50</i>
6742-002-0001-SA	<i>1527.30</i>	<i>491.98</i>
6742-003-0001-SA	<i>1535.70</i>	<i>495.69</i>

Results: *6742*

Instrument: *Fish*

DB5 \_\_\_\_\_  
 DB225 \_\_\_\_\_  
 DB1 \_\_\_\_\_  
 Other \_\_\_\_\_

Extract/s located in box: *"oxymoron"*

Standards: *6742*

*L4 • EDD*



# Frontier Analytical Laboratory

## EXTRACTION SHEET

Project #: 6742      Extraction Date: 2011-05-16      Extraction Chemist: GN

Method/Analysis: EPA 1613 D/F

Procedure: SPE/SOX

Solvent: Toluene

Sample ID	Wet wt. (g/L)	Dry wt. (g/L)	IS	NS	CSS
			Amt: 10.0uL ID: 100511A Vial: 6 Chemist/Witness/Date	Amt: 10.0uL ID: 100511B Vial: 6 Chemist/Witness/Date	Amt: 10.0uL ID: 100511C Vial: 6 Chemist/Witness/Date
2292-001-0001-MB	(1.000L)	(1.000L)	GN WM 5/14/11	NA	GN WM 5/17/11
2292-001-0001-OPR	(1.000L)	(1.000L)	↓	GN WM 5/14/11	↓
6742-001-0001-SA	1.018L	↓	↓	NA	↓
6742-002-0001-SA	1.035L		↓	↓	↓
6742-003-0001-SA	1.040L		↓	↓	↓

AX-21 Charcoal Cleaned	082510	Acetone	107203	Acid Alumina	A0281479	Hexane	110182
Hydrochloric Acid	B08505	Methanol	108367	Methylene Chloride (DCM)	51020	Silica Gel	TA1592834
Sodium Hydroxide	0062836	Sodium Sulfate	1750C277	Sulfuric Acid	110205	Tetradecane	086237
Toluene	108273	Water	51004	C-18 Empore Discs	320552	Cyclohexane	50204

Comments: 6742-01 OPR MB  
6746-1 6742-3 6742-2  
6746-2

# Frontier Analytical Laboratory CLEANUP SHEET

Project #: 6742

Method/Analysis: EPA 1613 D/F

Splits: 0 Split Date: N/A Final Volume: 20.0uL

Sample ID	Cleanup 1	Cleanup 2	Cleanup 3	RS
	MSG/AA	NA	NA	Amt: 10.0uL ID: 100511D Vial: 8 Chemist/Witness/Date
	Chemist/Date	Chemist/Date	Chemist/Date	
2292-001-0001-MB	GN 5/17/11	NA	NA	GN WM 5/17/11
2292-001-0001-OPR	↓	↓	↓	↓
6742-001-0001-SA				
6742-002-0001-SA				
6742-003-0001-SA				

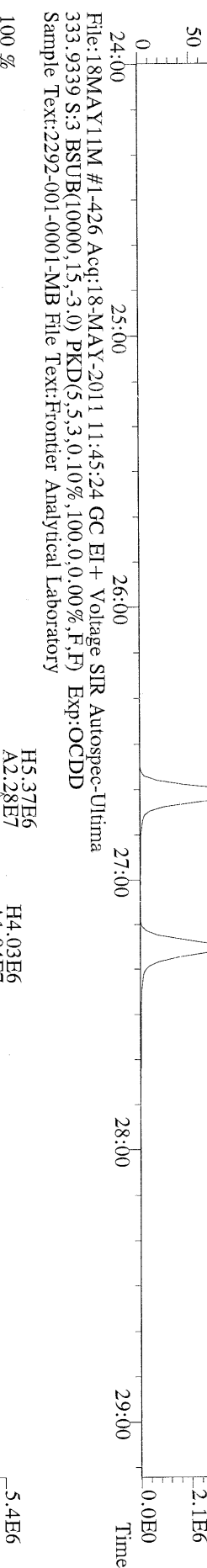
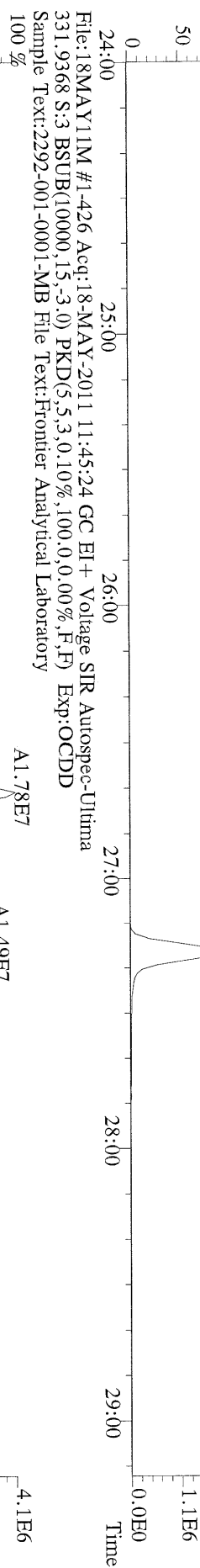
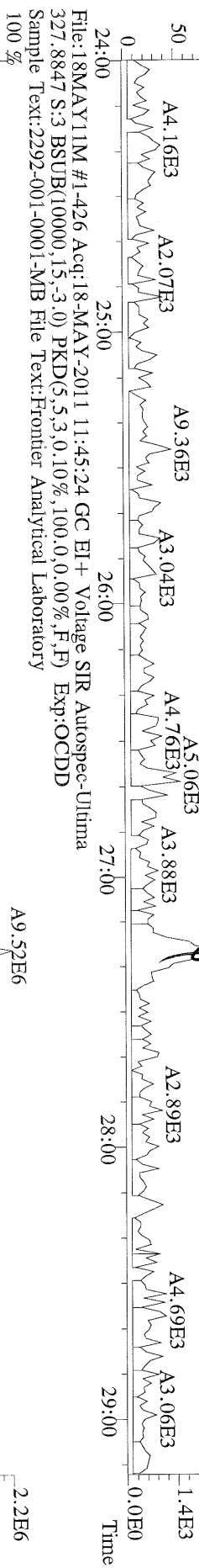
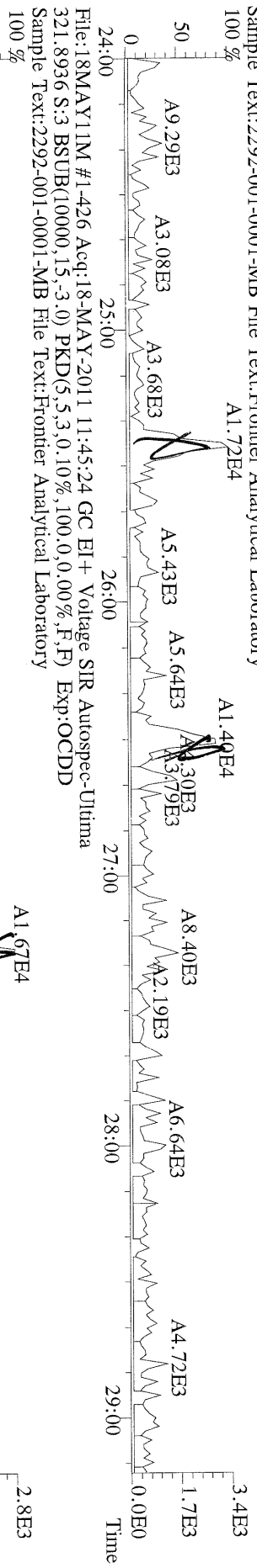
Comments:



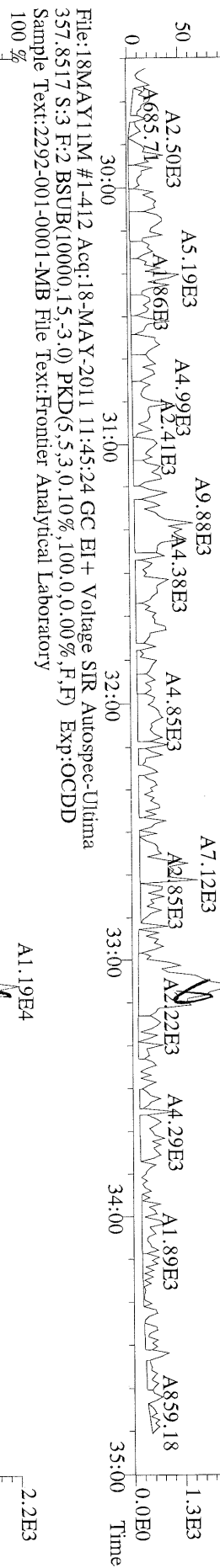
Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.13	*		2.50	600	684	0.791	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.02	*		2.50	648	600	1.12	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.45	*		2.50	816	808	1.42	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.45	*		2.50	816	808	1.73	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.47	*		2.50	816	808	1.55	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.30	*		2.50	898	1220	3.06	
OCDD	*	* n	NotFnd	1.45	*		2.50	1140	1190	5.85	
2,3,7,8-TCDF	*	* n	NotFnd	1.15	*		2.50	736	1170	0.676	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.89	*		2.50	728	860	0.977	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.89	*		2.50	728	860	1.12	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.01	*		2.50	704	688	1.09	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.89	*		2.50	704	688	0.948	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.02	*		2.50	704	688	1.17	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.10	*		2.50	704	688	1.25	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.48	*		2.50	621	715	1.52	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.43	*		2.50	621	715	2.37	
OCDF	*	* n	NotFnd	0.84	*		2.50	927	828	4.39	
13C-2,3,7,8-TCDD	3.43e+07	0.77 y	27:15	1.03	1640					82.2	
13C-1,2,3,7,8-PeCDD	2.98e+07	1.78 y	33:04	1.01	1450					72.7	
13C-1,2,3,4,7,8-HxCDD	2.27e+07	1.31 y	38:26	1.19	1660					82.9	
13C-1,2,3,6,7,8-HxCDD	1.97e+07	1.23 y	38:36	0.94	1830					91.3	
13C-1,2,3,4,6,7,8-HpCDD	1.82e+07	1.03 y	44:02	0.83	1910					95.7	
13C-OCDD	2.23e+07	0.90 y	49:34	0.61	3190					79.8	
13C-2,3,7,8-TCDF	5.31e+07	0.87 y	26:30	0.98	1660					83.0	
13C-1,2,3,7,8-PeCDF	4.62e+07	1.63 y	31:20	0.83	1710					85.4	
13C-2,3,4,7,8-PeCDF	4.27e+07	1.64 y	32:39	0.80	1630					81.4	
13C-1,2,3,4,7,8-HxCDF	3.81e+07	0.47 y	37:02	1.84	1800					89.8	
13C-1,2,3,6,7,8-HxCDF	5.13e+07	0.48 y	37:14	2.29	1950					97.3	
13C-2,3,4,6,7,8-HxCDF	3.59e+07	0.47 y	38:11	1.86	1680					83.8	
13C-1,2,3,7,8,9-HxCDF	3.39e+07	0.48 y	39:37	1.98	1490					74.4	
13C-1,2,3,4,6,7,8-HpCDF	1.86e+07	0.46 y	42:08	0.99	1640					81.8	
13C-1,2,3,4,7,8,9-HpCDF	1.36e+07	0.47 y	44:57	0.77	1540					77.2	
13C-OCDF	3.81e+07	0.94 y	49:56	1.17	2840					71.0	
37Cl-2,3,7,8-TCDD	9.52e+06		27:16	0.73	643					80.3	
13C-1,2,3,4-TCDD	4.06e+07	0.78 y	26:41	-	107						
13C-1,2,3,4-TCDF	6.53e+07	0.87 y	25:26	-	90.7						
13C-1,2,3,7,8,9-HxCDD	2.30e+07	1.31 y	39:02	-	92.8						
Total Tetra-Dioxins	*		NotFnd	1.13	*		2.50	600	684	0.791	0
Total Penta-Dioxins	*		NotFnd	1.02	*		2.50	648	600	1.12	0
Total Hexa-Dioxins	*		NotFnd	1.46	*		2.50	816	808	1.73	0
Total Hepta-Dioxins	*		NotFnd	1.30	*		2.50	898	1220	3.06	0
Total Tetra-Furans	*		NotFnd	1.15	*		2.50	736	1170	0.676	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.89	*		2.50	728	860	1.12	PeCDF 0
Total Penta-Furans	*		NotFnd	0.89	*		2.50	728	860	1.12	* 0
Total Hexa-Furans	*		NotFnd	1.00	*		2.50	704	688	1.25	0
Total Hepta-Furans	*		NotFnd	1.46	*		2.50	621	715	2.37	0

Analyst:  Date: 5/19/11

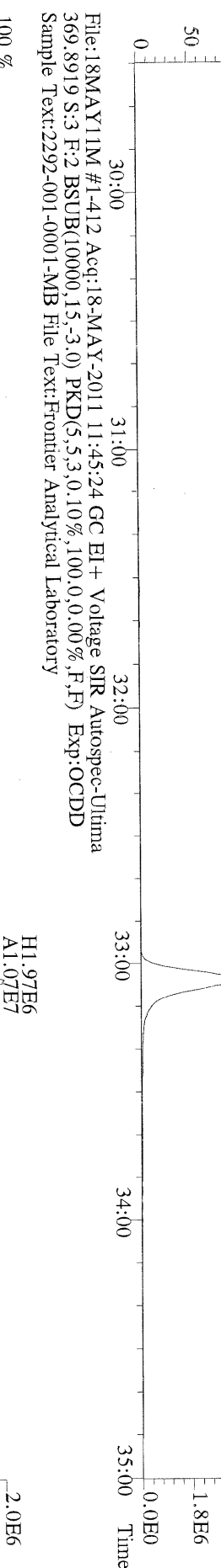
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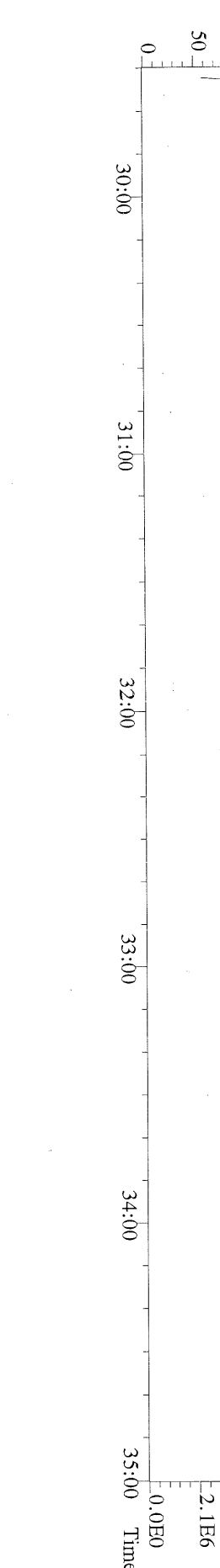
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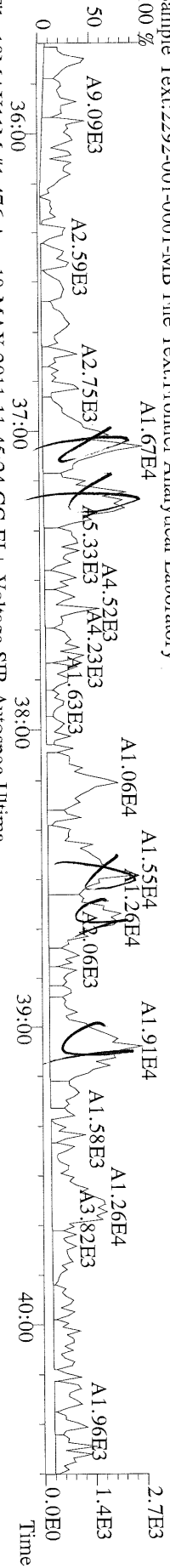
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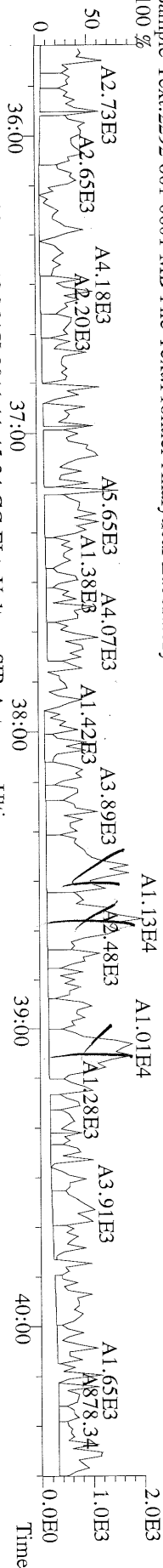
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366.9792 S:3 F:2 Exp:OCDD  
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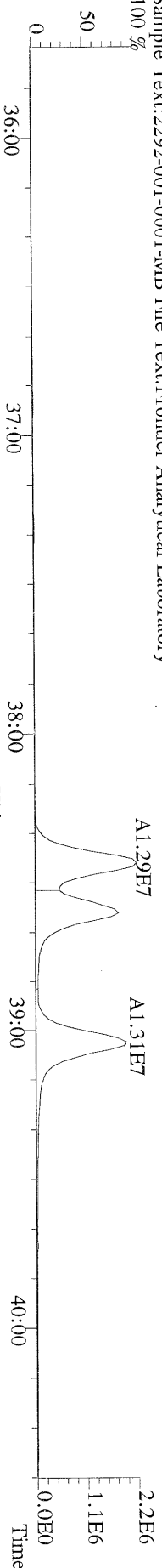
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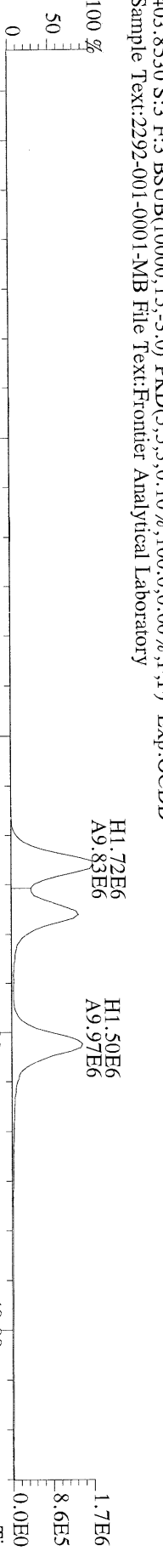
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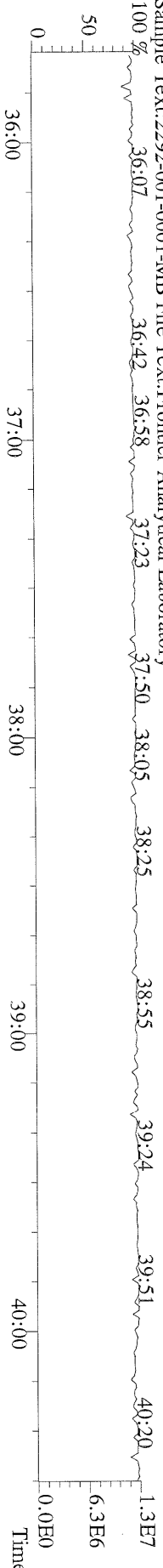
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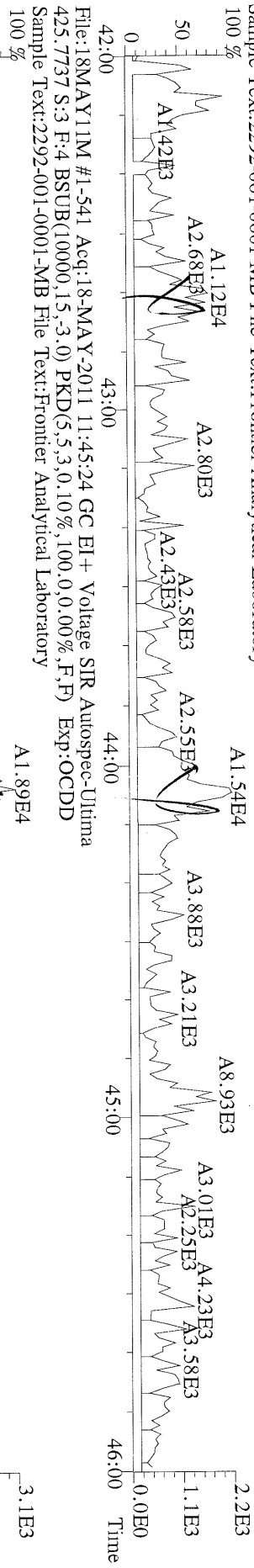
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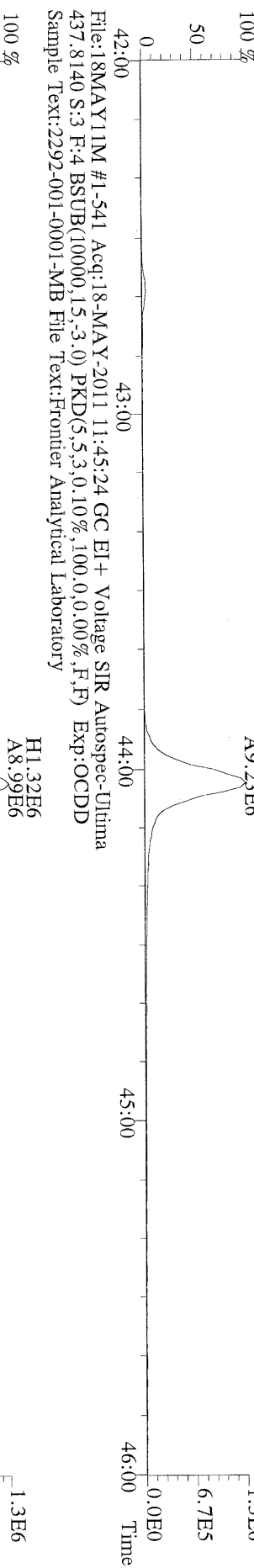
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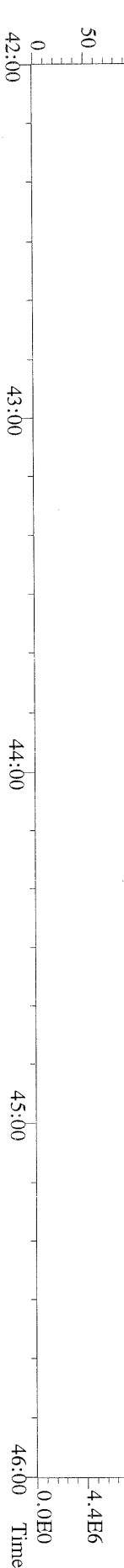
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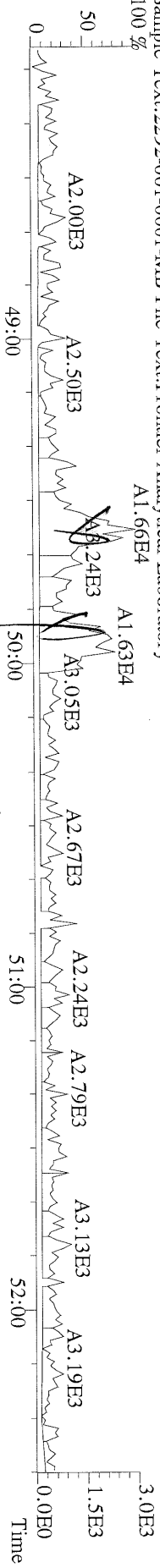
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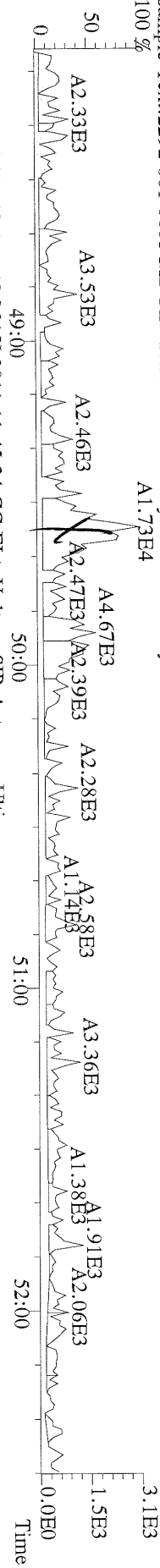
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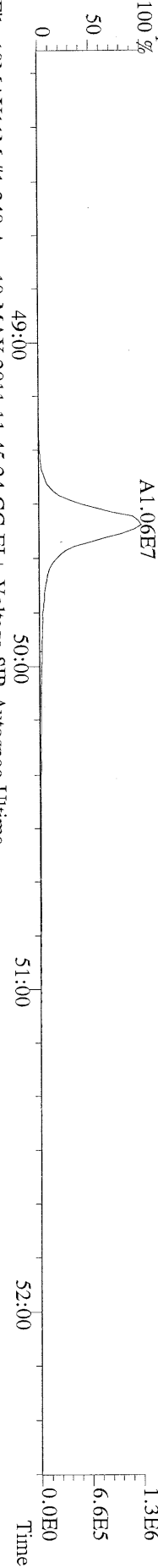
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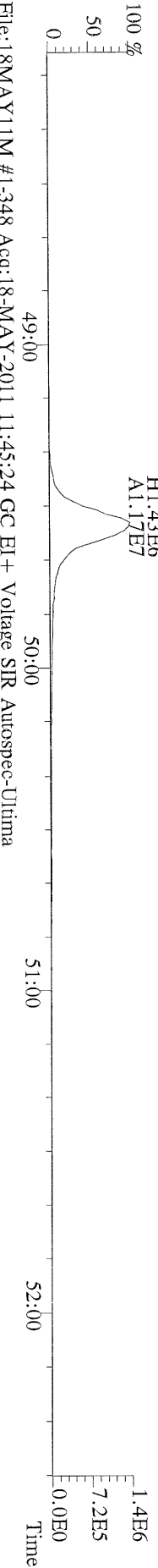
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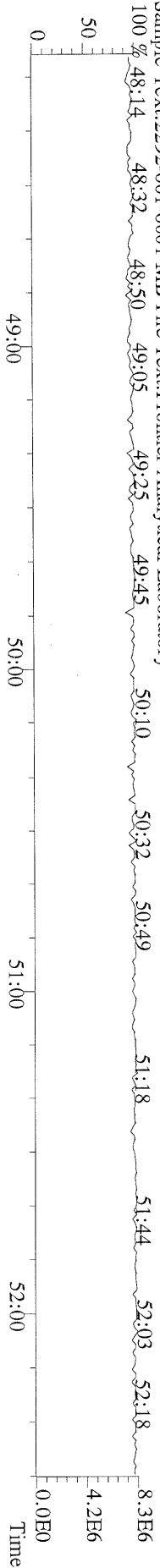
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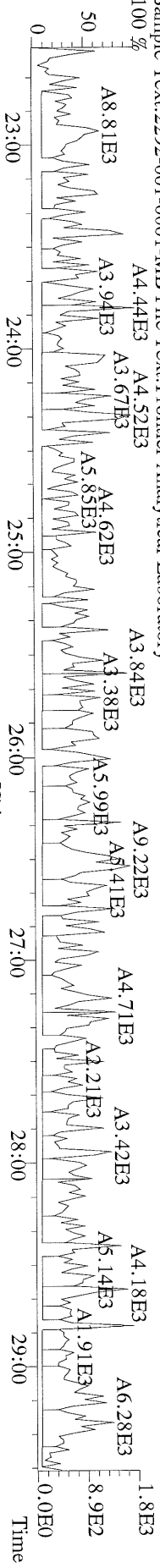
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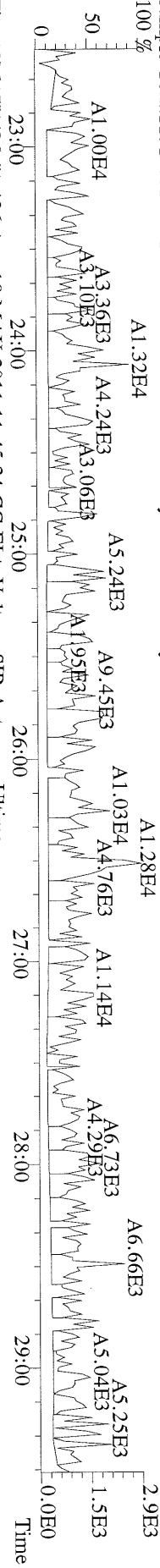
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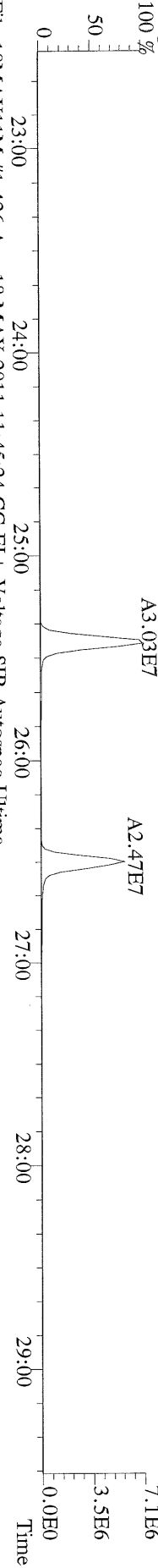
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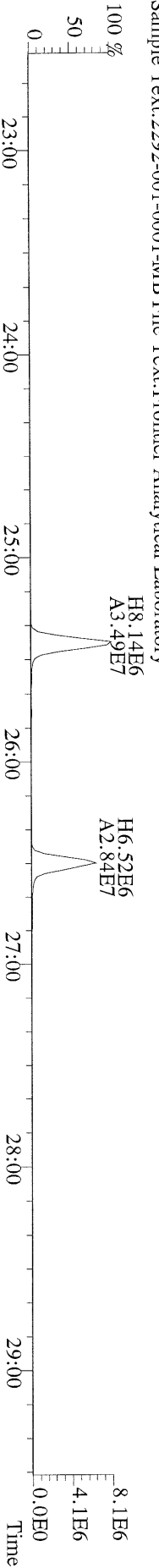
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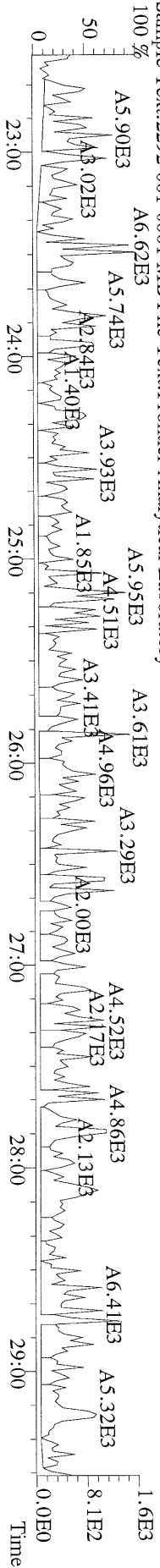
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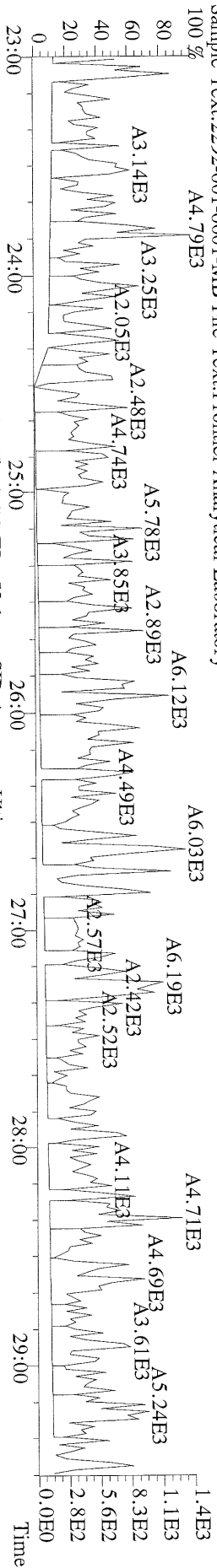
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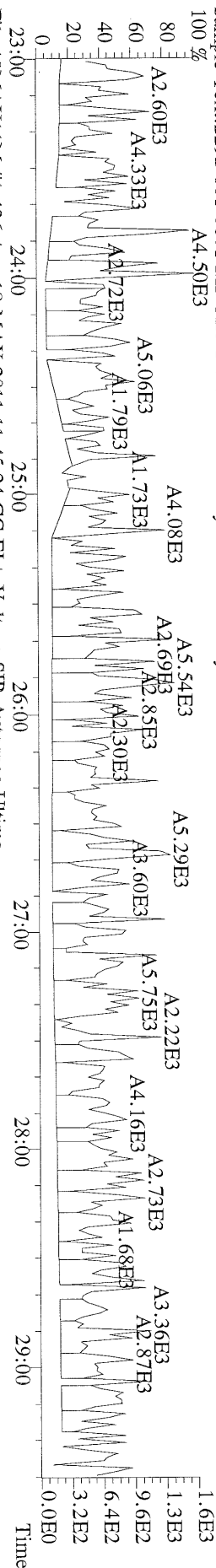
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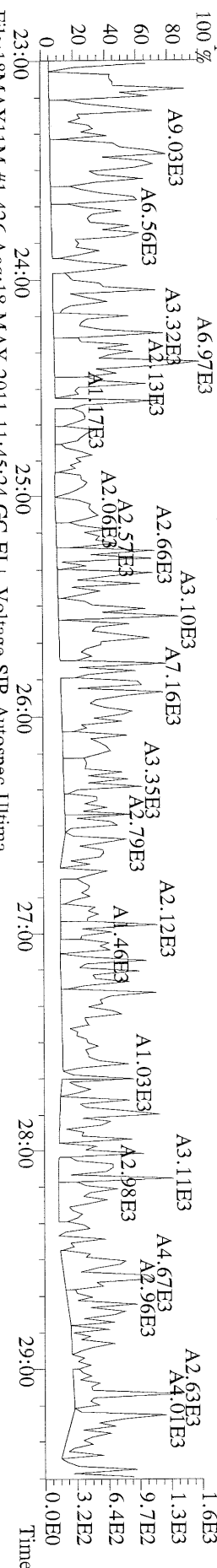
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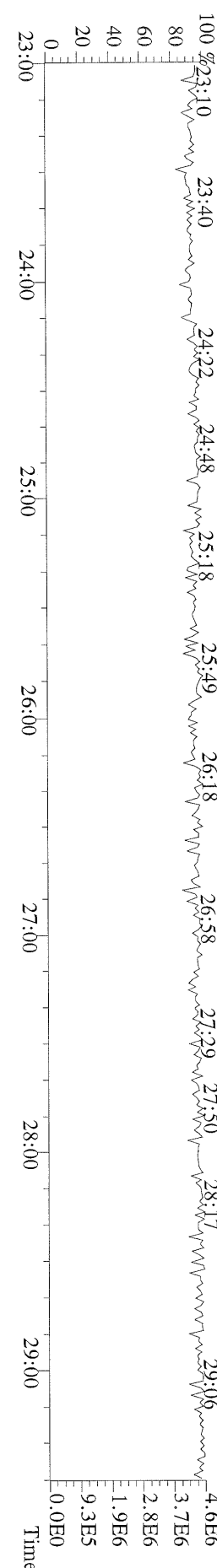
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File:18MAY11M #1-426 Acq:18-MAY-2011 11:45:24 GC EI + Voltage SIR Autospec-Ultima  
 409.7974 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
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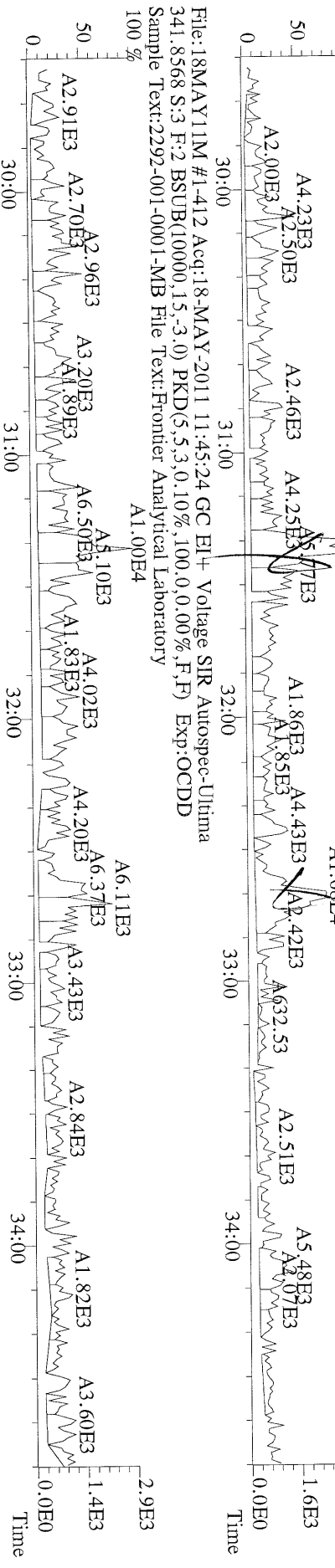


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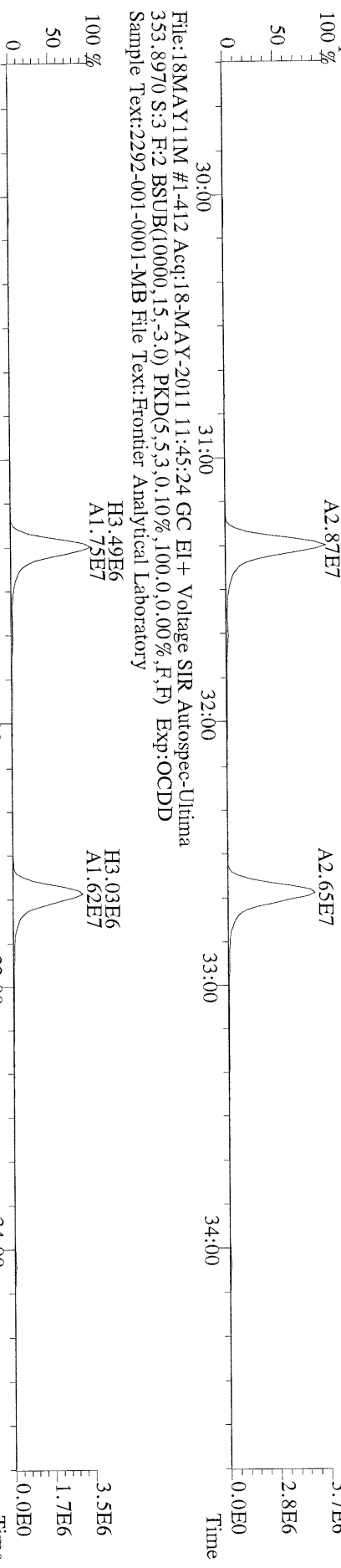




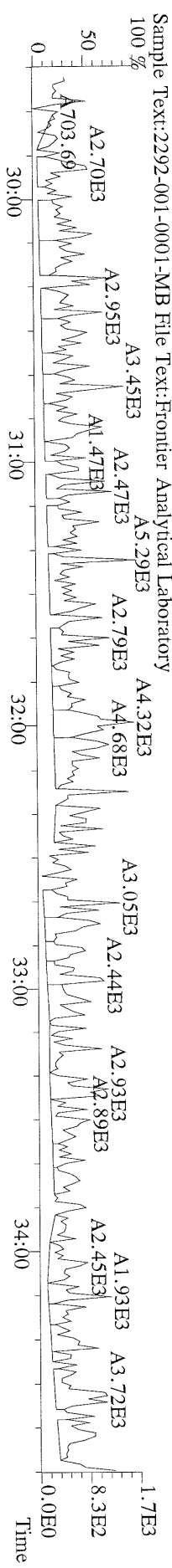
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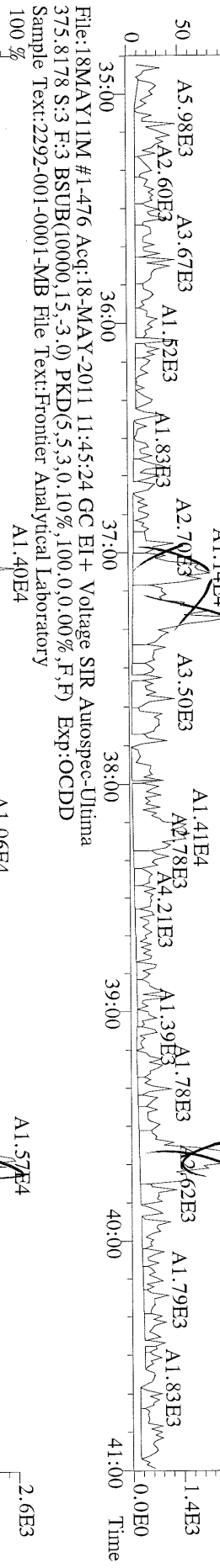
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File:18MAY11M #1-412 Acq:18-MAY-2011 11:45:24 GC EI+ Voltage SIR Autospec-Ultima  
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 Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



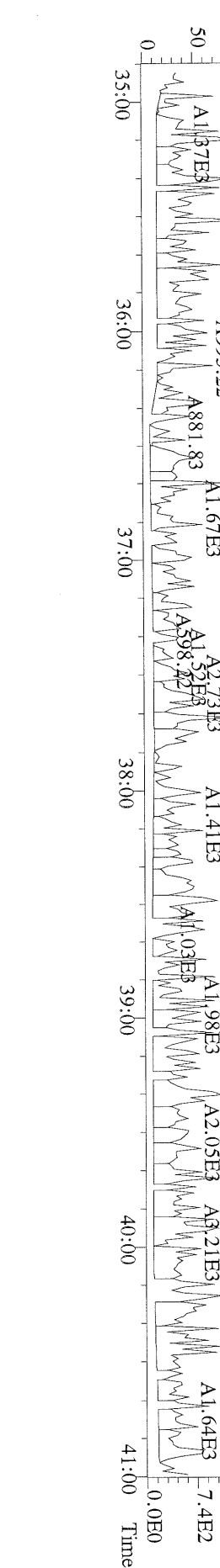
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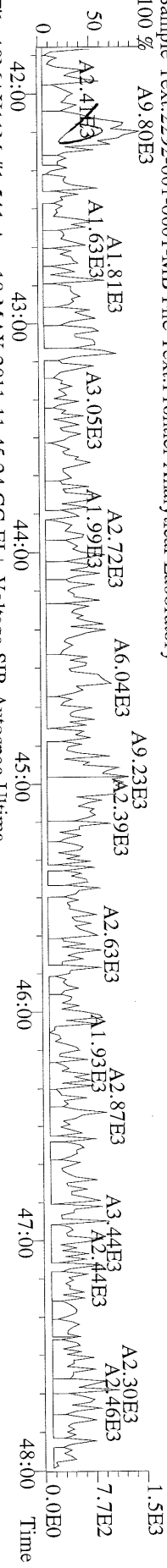
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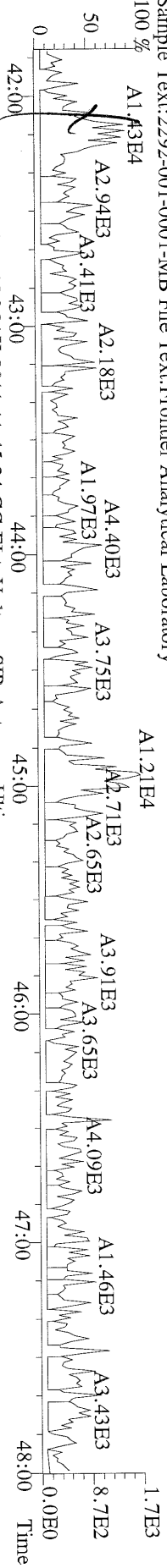
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 445.7555 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:OCDD  
 Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



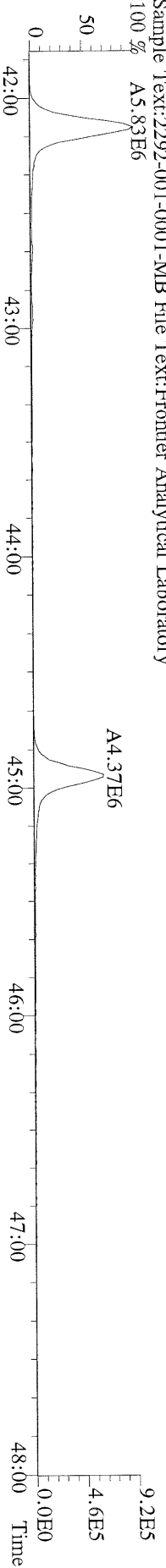
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 407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:OCDD  
 Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



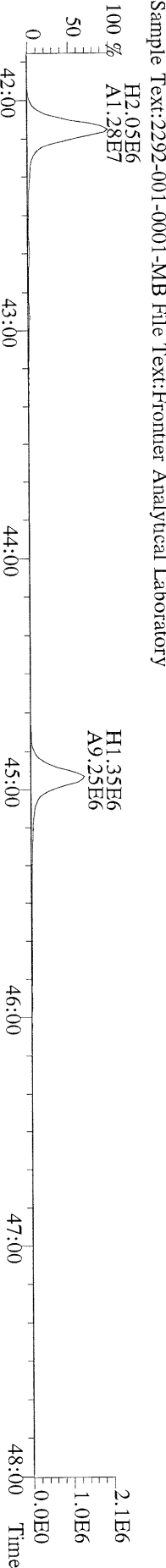
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 409.7788 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:OCDD  
 Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



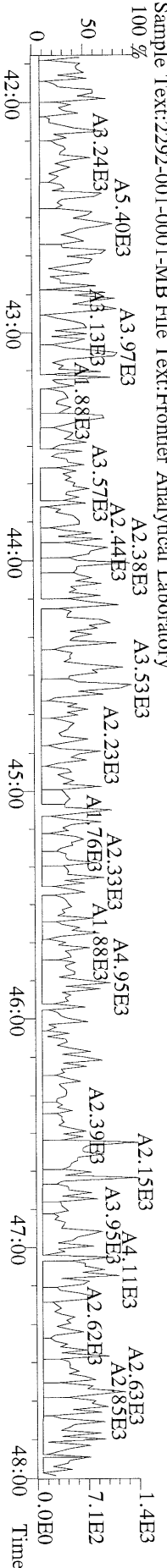
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 Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



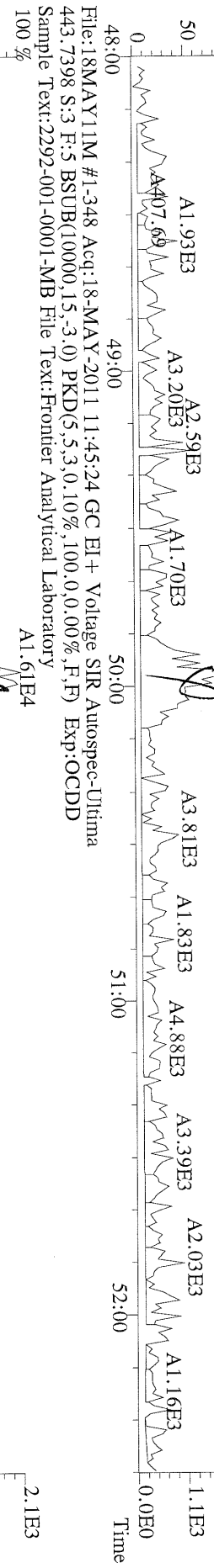
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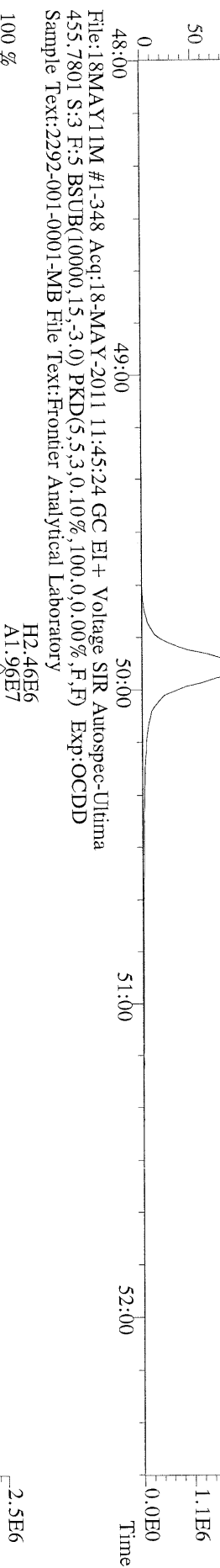
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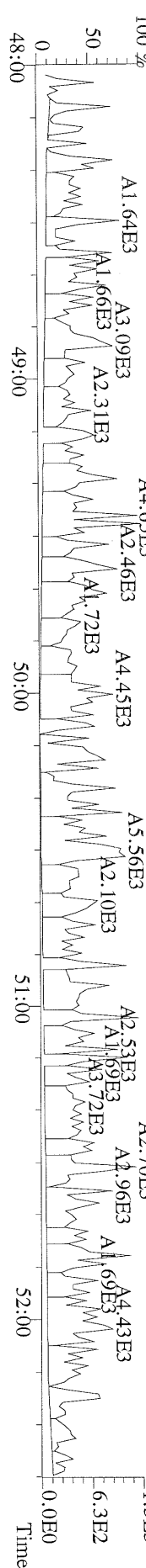
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 441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
 Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



File:18MAY11M #1-348 Acq:18-MAY-2011 11:45:24 GC EI + Voltage SIR Autospec-Ultima  
 453.7831 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
 Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



File:18MAY11M #1-348 Acq:18-MAY-2011 11:45:24 GC EI + Voltage SIR Autospec-Ultima  
 513.6775 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
 Sample Text:2292-001-0001-MB File Text:Frontier Analytical Laboratory



## USEPA - ITD

FORM 8A  
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:


Matrix (aqueous/solid/leachate): Aqueous OPR Data Filename: 18MAY11M Sam:2

Ext. Date: 5/16/11 Shift: Day Analysis Date: 18-MAY-11 10:50:01

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
NATIVE ANALYTES			
2,3,7,8-TCDD	10	10.6	6.70 - 15.8
1,2,3,7,8-PeCDD	50	58.7	35.0 - 71.0
1,2,3,4,7,8-HxCDD	50	53.8	35.0 - 82.0
1,2,3,6,7,8-HxCDD	50	54.0	38.0 - 67.0
1,2,3,7,8,9-HxCDD	50	55.4	32.0 - 81.0
1,2,3,4,6,7,8-HpCDD	50	54.4	35.0 - 70.0
OCDD	100	118	78.0 - 144
2,3,7,8-TCDF	10	12.2	7.50 - 15.8
1,2,3,7,8-PeCDF	50	54.4	40.0 - 67.0
2,3,4,7,8-PeCDF	50	53.8	34.0 - 80.0
1,2,3,4,7,8-HxCDF	50	52.0	36.0 - 67.0
1,2,3,6,7,8-HxCDF	50	52.4	42.0 - 65.0
2,3,4,6,7,8-HxCDF	50	51.1	35.0 - 78.0
1,2,3,7,8,9-HxCDF	50	51.7	39.0 - 65.0
1,2,3,4,6,7,8-HpCDF	50	53.8	41.0 - 61.0
1,2,3,4,7,8,9-HpCDF	50	52.5	39.0 - 69.0
OCDF	100	99.3	63.0 - 170

(1) Contract-required concentration limits for OPR as specified in Table 6, Method 1613

Analyst: 

Date: 5/19/11

## USEPA - ITD

FORM 8B  
PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): Aqueous OPR Data Filename: 18MAY11M Sam:2

Ext. Date: 5/16/11 Shift: Day Analysis Date: 18-MAY-11 10:50:01

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.


	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
LABELED COMPOUNDS			
13C-2,3,7,8-TCDD	100	73.9	20.0 - 175
13C-1,2,3,7,8-PeCDD	100	58.5	21.0 - 227
13C-1,2,3,4,7,8-HxCDD	100	61.6	21.0 - 193
13C-1,2,3,6,7,8-HxCDD	100	67.2	25.0 - 163
13C-1,2,3,4,6,7,8-HpCDD	100	62.4	26.0 - 166
13C-OCDD	200	91.6	26.0 - 397
13C-2,3,7,8-TCDF	100	76.7	22.0 - 152
13C-1,2,3,7,8-PeCDF	100	64.9	21.0 - 192
13C-2,3,4,7,8-PeCDF	100	66.7	13.0 - 328
13C-1,2,3,4,7,8-HxCDF	100	64.0	19.0 - 202
13C-1,2,3,6,7,8-HxCDF	100	64.8	21.0 - 159
13C-2,3,4,6,7,8-HxCDF	100	64.9	22.0 - 176
13C-1,2,3,7,8,9-HxCDF	100	55.9	17.0 - 205
13C-1,2,3,4,6,7,8-HpCDF	100	54.0	21.0 - 158
13C-1,2,3,4,7,8,9-HpCDF	100	50.5	20.0 - 186
13C-OCDF	200	88.5	26.0 - 397
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	33.3	12.4 - 76.4

(1) Contract-required concentration limits for OPR as specified in Table 6, Method 1613  
Labeled compound concentration limits are based on required percent recovery of 25%-150%.

Analyst:  Date: 5/19/11

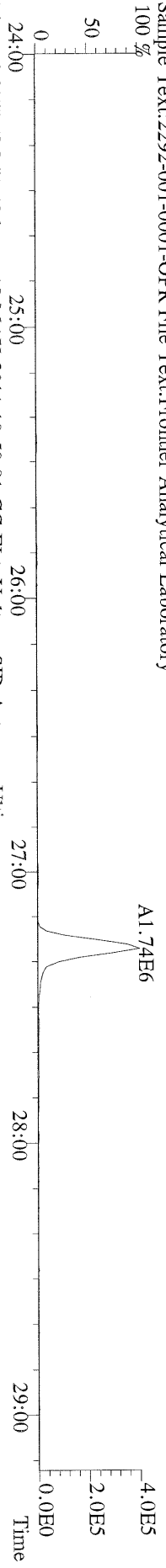
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 Client ID: OPR      ConCal: ST051811M1      EndCal: ST051811M2  
 Results: 2292      GC Column: DB5      Amount: 1.000      NATO 1989 Tox: 110

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	DL	
2,3,7,8-TCDD	3.95e+06	0.78 y	27:17	1.13	10.6		2.50	-	-	*	
1,2,3,7,8-PeCDD	1.52e+07	1.52 y	33:06	1.02	58.7		2.50	-	-	*	
1,2,3,4,7,8-HxCDD	1.29e+07	1.33 y	38:27	1.45	53.8		2.50	-	-	*	
1,2,3,6,7,8-HxCDD	1.12e+07	1.23 y	38:37	1.45	54.0		2.50	-	-	*	
1,2,3,7,8,9-HxCDD	1.25e+07	1.29 y	39:04	1.47	55.4		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	8.25e+06	0.90 y	44:04	1.30	54.4		2.50	-	-	*	
OCDD	1.08e+07	0.92 y	49:35	1.45	118		2.50	-	-	*	
2,3,7,8-TCDF	7.43e+06	0.67 y	26:32	1.15	12.2		2.50	-	-	*	
1,2,3,7,8-PeCDF	1.84e+07	1.55 y	31:21	0.89	54.4		2.50	-	-	*	
2,3,4,7,8-PeCDF	1.82e+07	1.54 y	32:40	0.89	53.8		2.50	-	-	*	
1,2,3,4,7,8-HxCDF	1.40e+07	1.23 y	37:04	1.01	52.0		2.50	-	-	*	
1,2,3,6,7,8-HxCDF	1.57e+07	1.23 y	37:16	0.89	52.4		2.50	-	-	*	
2,3,4,6,7,8-HxCDF	1.42e+07	1.24 y	38:12	1.02	51.1		2.50	-	-	*	
1,2,3,7,8,9-HxCDF	1.43e+07	1.25 y	39:38	1.10	51.7		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDF	9.60e+06	1.06 y	42:09	1.48	53.8		2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	6.56e+06	1.02 y	44:58	1.43	52.5		2.50	-	-	*	
OCDF	9.76e+06	0.90 y	49:56	0.84	99.3		2.50	-	-	*	
										Rec	
13C-2,3,7,8-TCDD	3.28e+07	0.79 y	27:16	1.03	73.9					73.9	
13C-1,2,3,7,8-PeCDD	2.55e+07	1.74 y	33:04	1.01	58.5					58.5	
13C-1,2,3,4,7,8-HxCDD	1.66e+07	1.27 y	38:26	1.19	61.6					61.6	
13C-1,2,3,6,7,8-HxCDD	1.42e+07	1.27 y	38:36	0.94	67.2					67.2	
13C-1,2,3,4,6,7,8-HpCDD	1.17e+07	1.06 y	44:02	0.83	62.4					62.4	
13C-OCDD	1.26e+07	0.95 y	49:33	0.61	91.6					45.8	
13C-2,3,7,8-TCDF	5.33e+07	0.87 y	26:31	0.98	76.7					76.7	
13C-1,2,3,7,8-PeCDF	3.82e+07	1.65 y	31:21	0.83	64.9					64.9	
13C-2,3,4,7,8-PeCDF	3.80e+07	1.65 y	32:40	0.80	66.7					66.7	
13C-1,2,3,4,7,8-HxCDF	2.66e+07	0.48 y	37:03	1.84	64.0					64.0	
13C-1,2,3,6,7,8-HxCDF	3.35e+07	0.47 y	37:15	2.29	64.8					64.8	
13C-2,3,4,6,7,8-HxCDF	2.73e+07	0.49 y	38:11	1.86	64.9					64.9	
13C-1,2,3,7,8,9-HxCDF	2.50e+07	0.49 y	39:36	1.98	55.9					55.9	
13C-1,2,3,4,6,7,8-HpCDF	1.20e+07	0.47 y	42:08	0.99	54.0					54.0	
13C-1,2,3,4,7,8,9-HpCDF	8.75e+06	0.45 y	44:56	0.77	50.5					50.5	
13C-OCDF	2.33e+07	0.96 y	49:55	1.17	88.5					44.3	
37Cl-2,3,7,8-TCDD	1.05e+07		27:17	0.73	33.3					83.3	
13C-1,2,3,4-TCDD	4.32e+07	0.79 y	26:42	-	114						
13C-1,2,3,4-TCDF	7.09e+07	0.87 y	25:26	-	98.6						
13C-1,2,3,7,8,9-HxCDD	2.26e+07	1.28 y	39:03	-	91.1						
							Fac Noise-1	Noise-2	DL	#Hom	
Total Tetra-Dioxins	4.20e+06		22:54	1.13	11.3		2.50	-	-	*	30
Total Penta-Dioxins	1.55e+07		31:21	1.02	59.8		2.50	-	-	*	8
Total Hexa-Dioxins	3.70e+07		36:56	1.46	165		2.50	-	-	*	15
Total Hepta-Dioxins	8.93e+06		42:17	1.30	58.9		2.50	-	-	*	36
Total Tetra-Furans	7.82e+06		22:58	1.15	12.8		2.50	-	-	*	13
1st Fn. Tot Penta-Furans	2.39e+05		22:44	0.89	0.704		2.50	-	-	*	PeCDF 40
Total Penta-Furans	3.81e+07		30:06	0.89	112		2.50	-	-	*	113 15
Total Hexa-Furans	5.87e+07		35:07	1.00	209		2.50	-	-	*	20
Total Hepta-Furans	1.67e+07		42:09	1.46	110		2.50	-	-	*	12

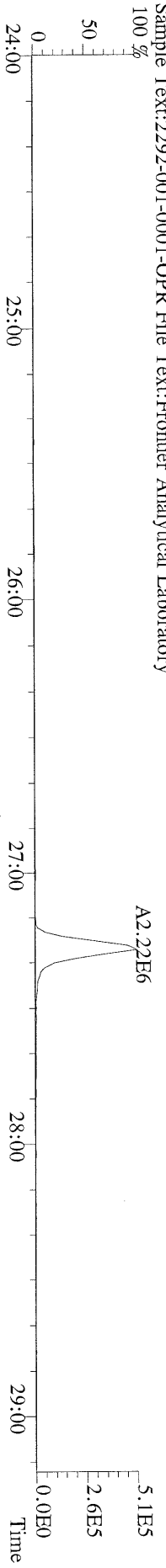
Analyst: 

Date: 5/19/11

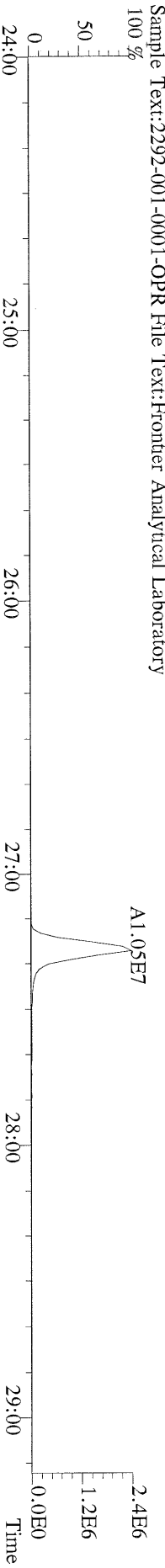
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Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory  
100 %



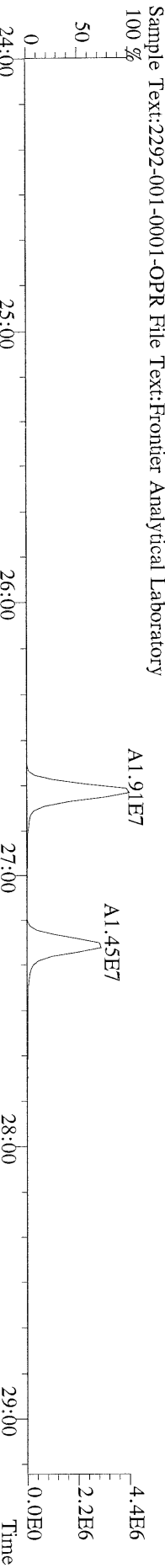
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321.8936 S:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory  
100 %



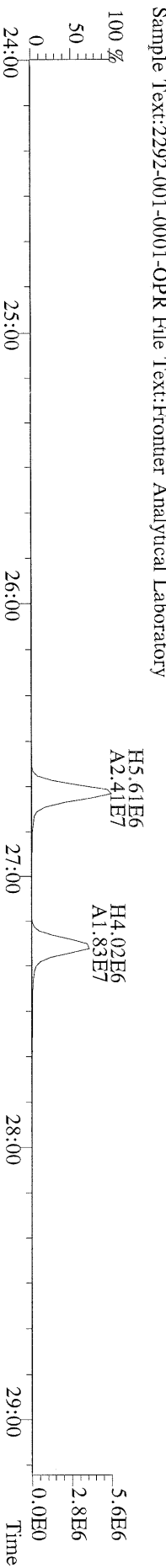
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327.8847 S:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory  
100 %



File:18MAY11M #1-426 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Utima  
331.9368 S:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory  
100 %

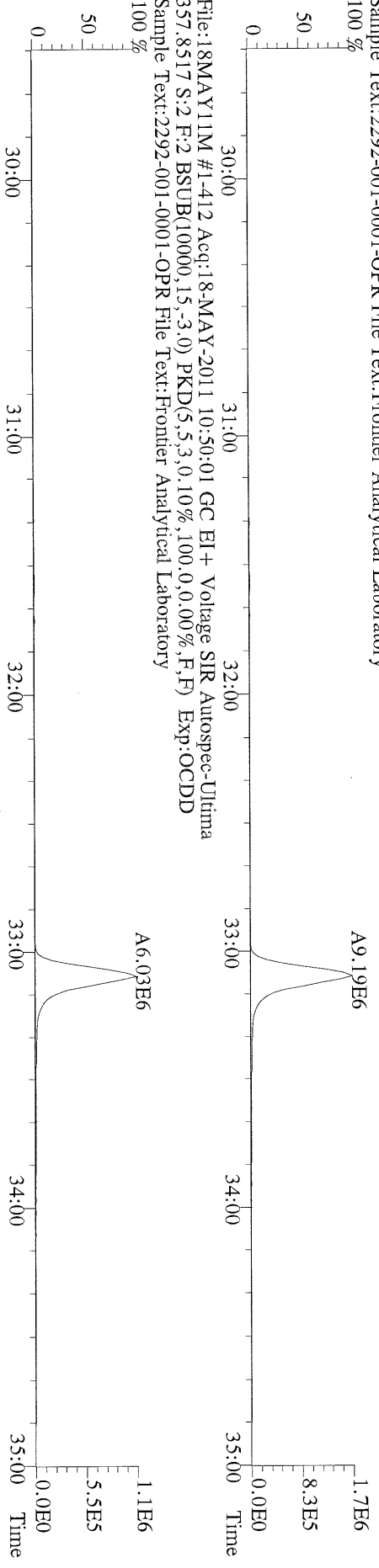


File:18MAY11M #1-426 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Utima  
333.9339 S:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory  
100 %

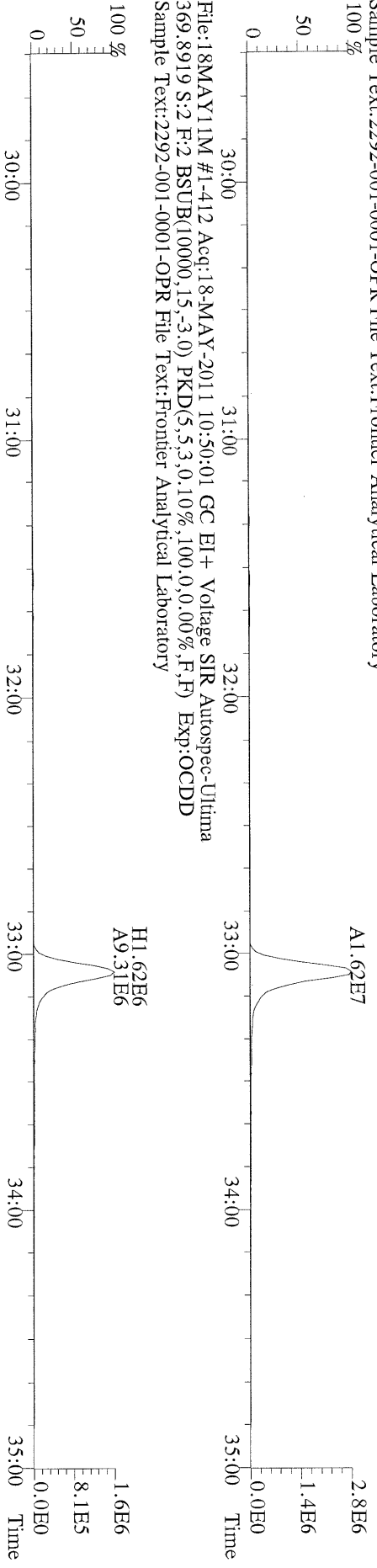




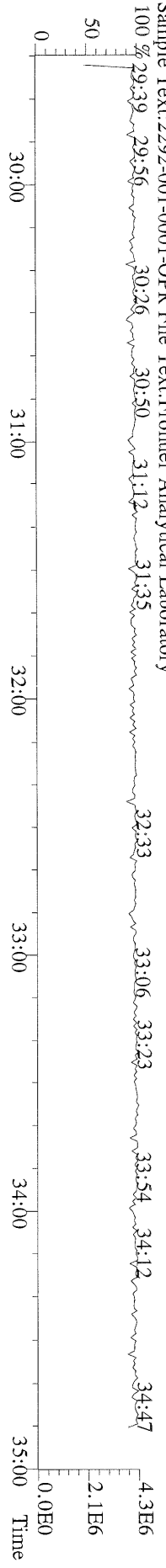
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355.8546 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory  
100 %



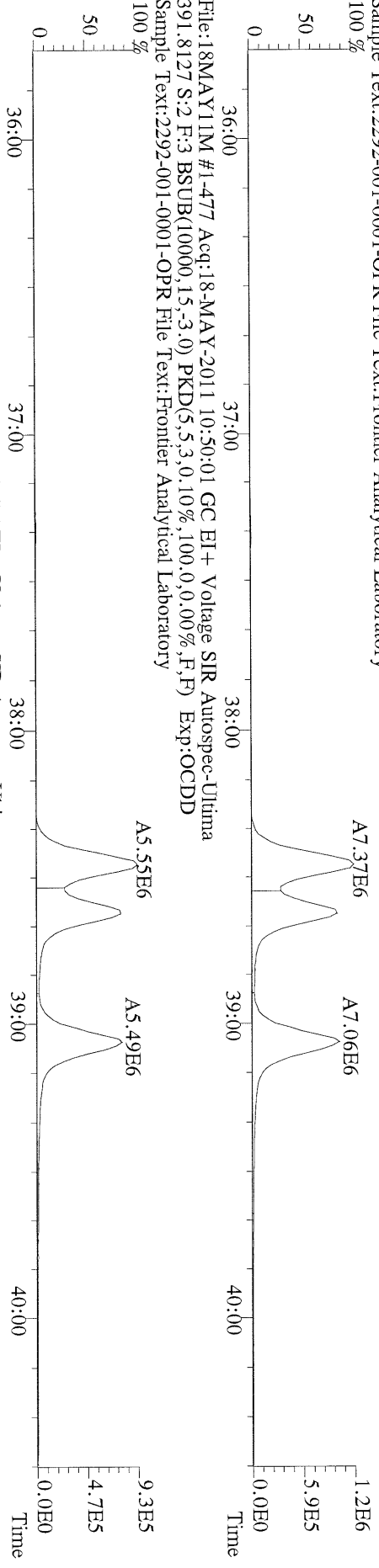
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367.8949 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory  
100 %



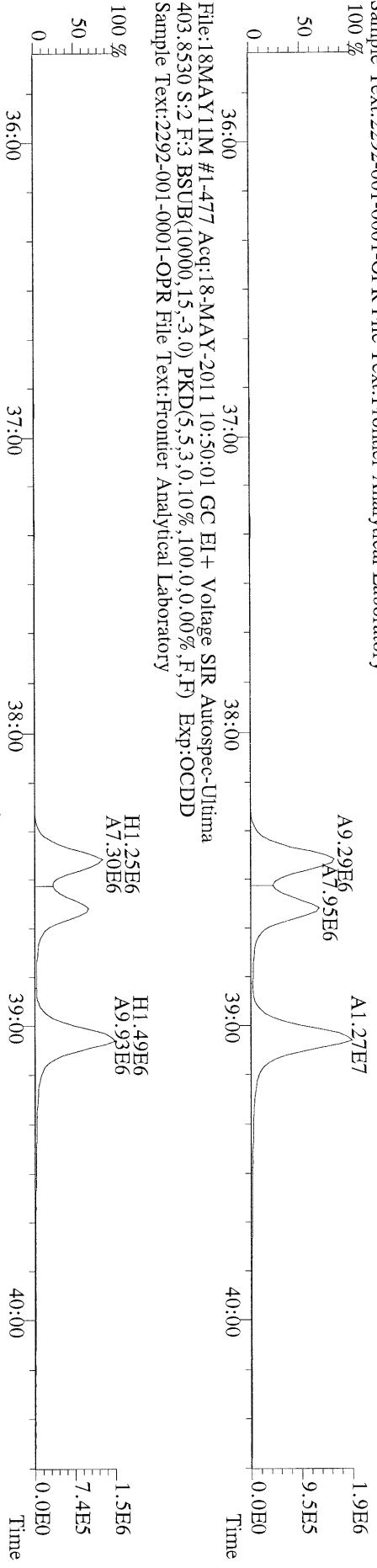
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366.9792 S:2 F:2 Exp:OCDD  
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory  
100 %



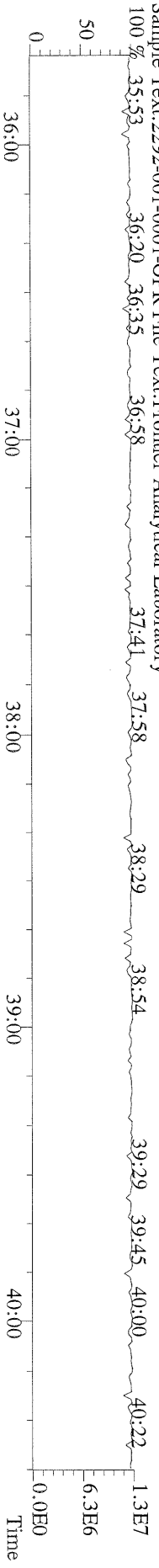
File:18MAY11M #1-477 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



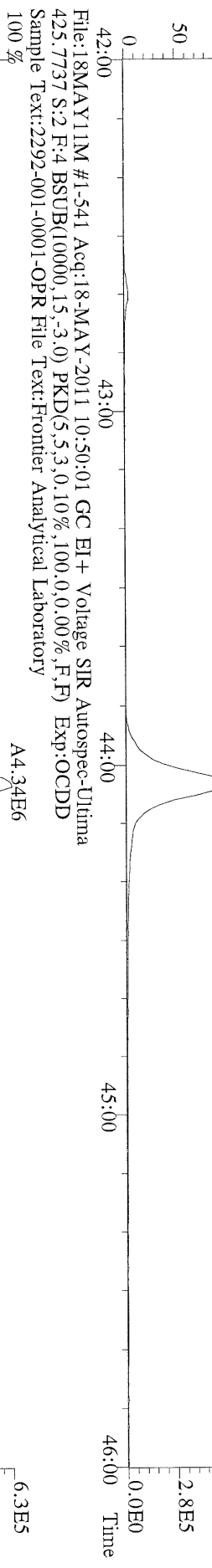
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401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



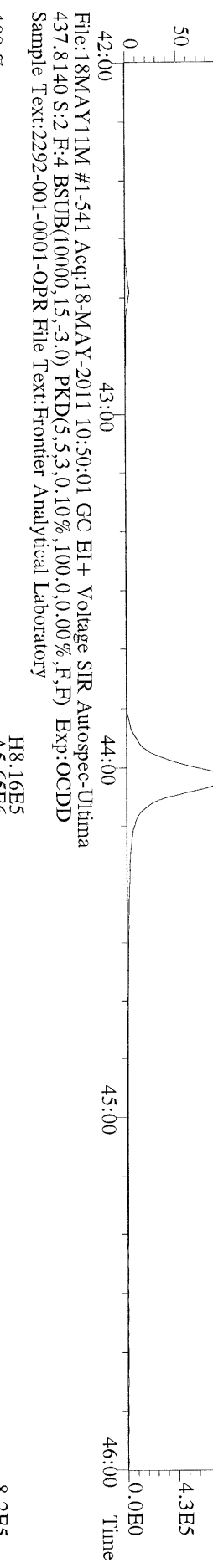
File:18MAY11M #1-477 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
380.9760 S:2 F:3 Exp:OCDD  
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



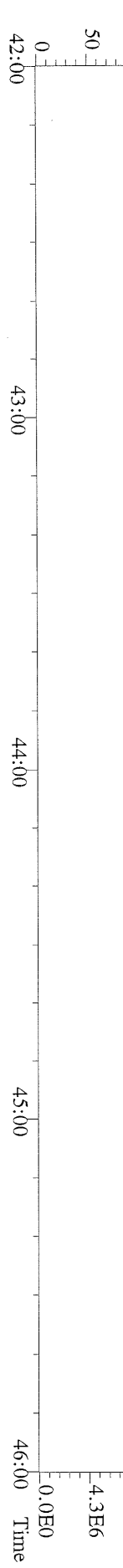
File:18MAY11M #1-541 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



File:18MAY11M #1-541 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



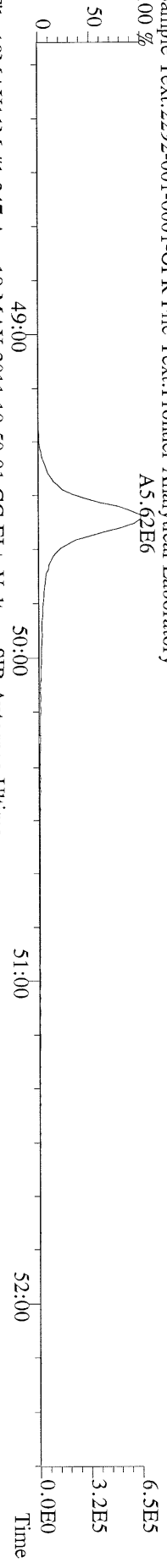
File:18MAY11M #1-541 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
430.9728 S:2 F:4 Exp:OCDD  
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



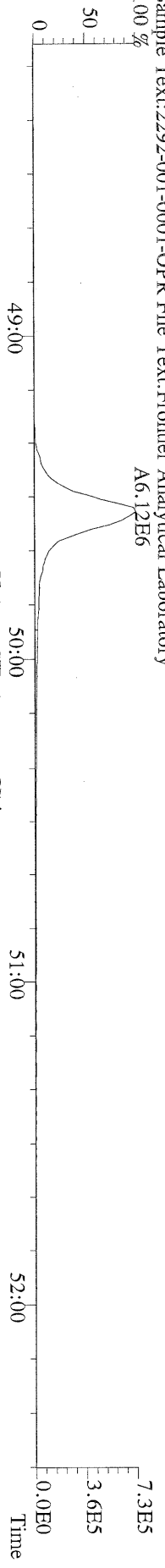
File:18MAY11M #1-347 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
457.7377 S:2 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory  
100 %



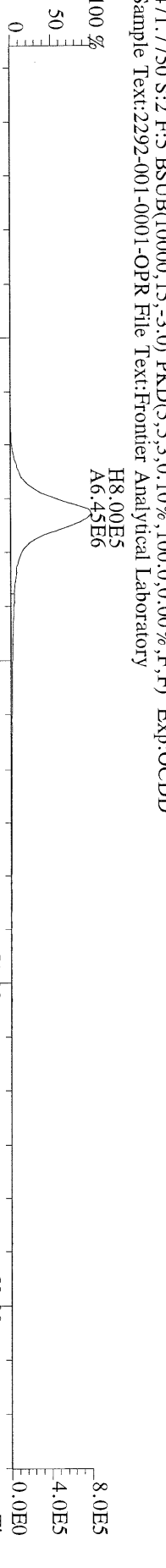
File:18MAY11M #1-347 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
459.7348 S:2 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory  
100 %



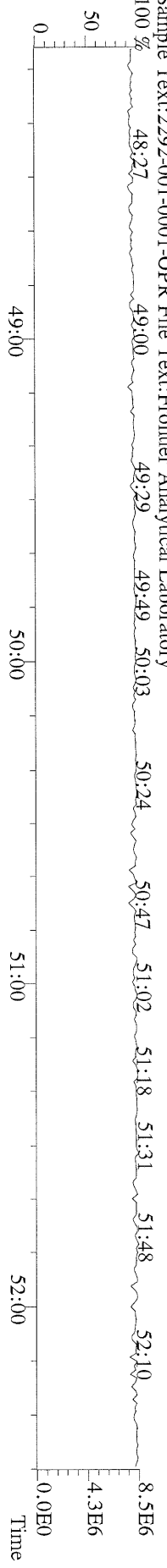
File:18MAY11M #1-347 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
469.7780 S:2 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory  
100 %



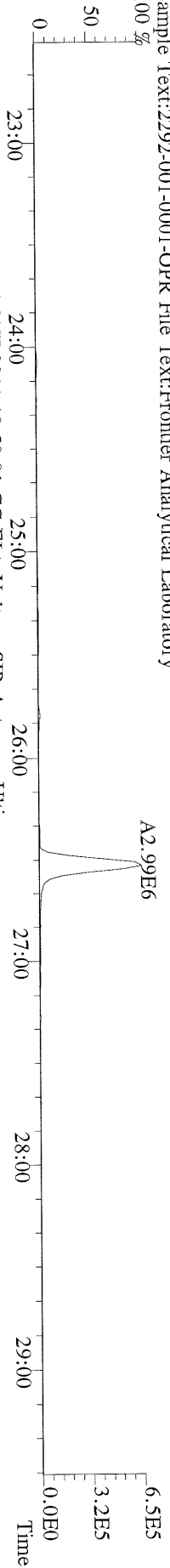
File:18MAY11M #1-347 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
471.7750 S:2 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



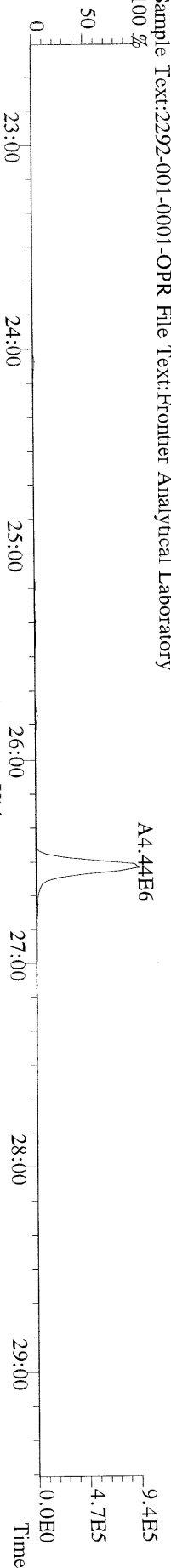
File:18MAY11M #1-347 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
454.9728 S:2 F:5 Exp:OCDD  
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



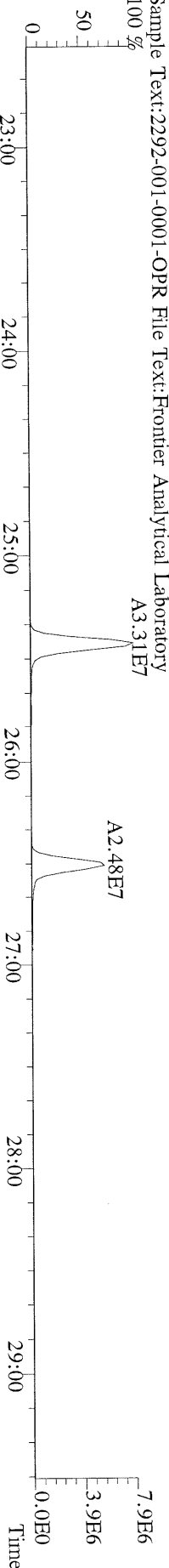
File:18MAY11M #1-426 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
 303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



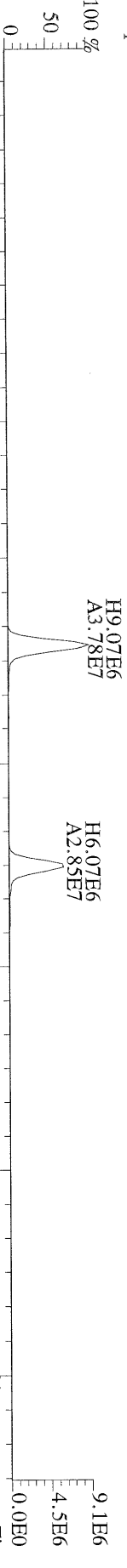
File:18MAY11M #1-426 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
 305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



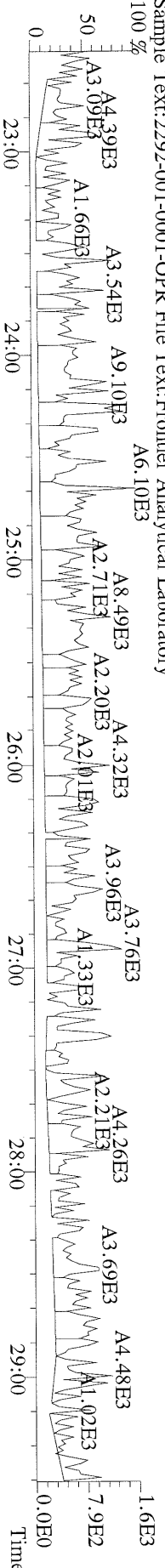
File:18MAY11M #1-426 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
 315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



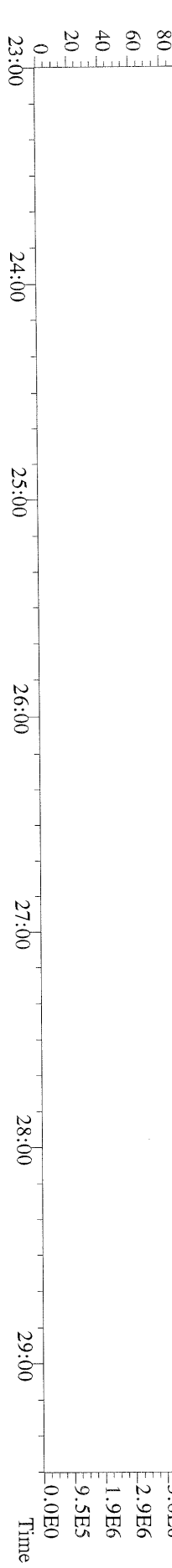
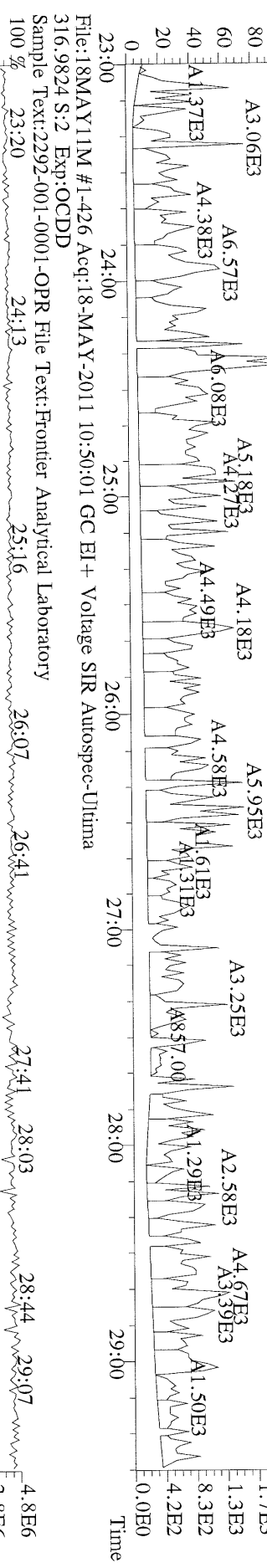
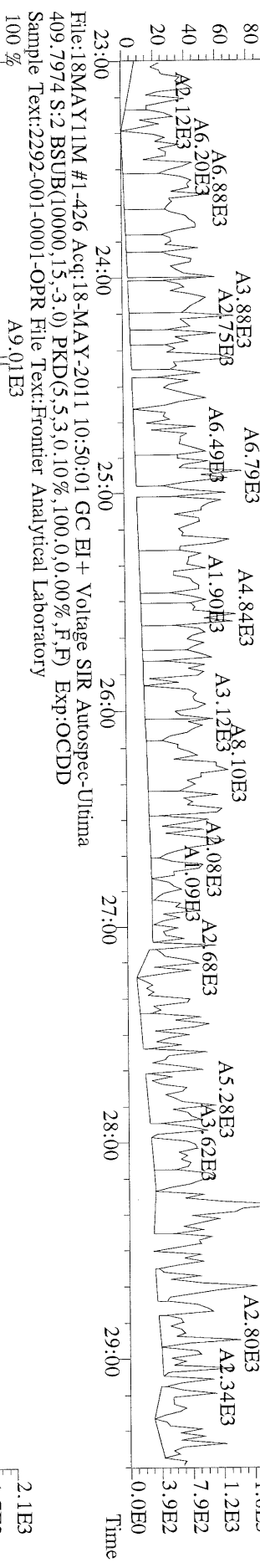
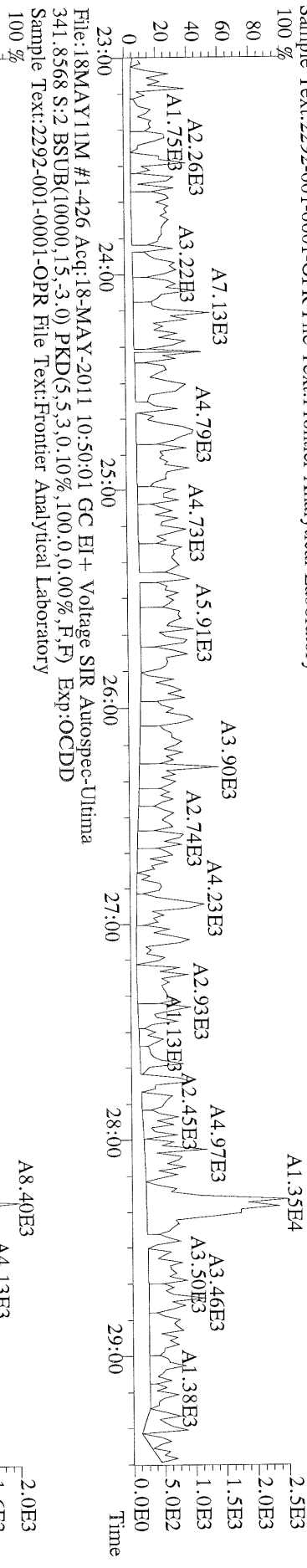
File:18MAY11M #1-426 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
 317.9389 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



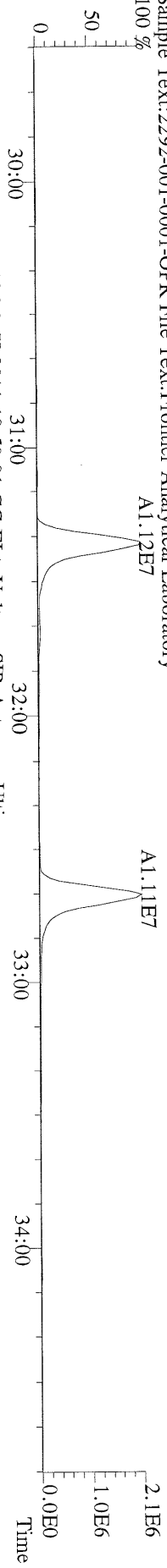
File:18MAY11M #1-426 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
 375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



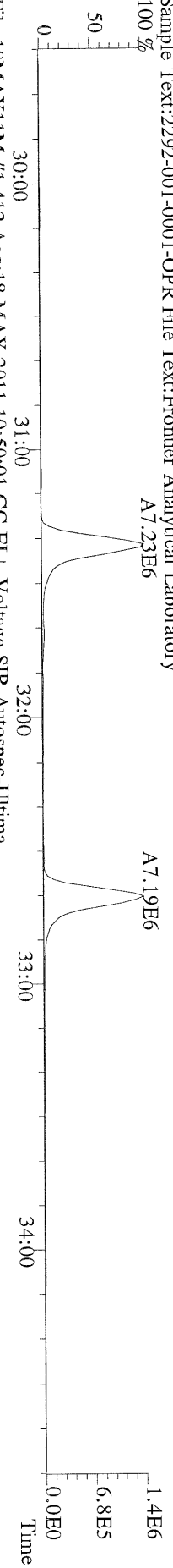
File:18MAY11M #1-426 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
 339.8568 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
 Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



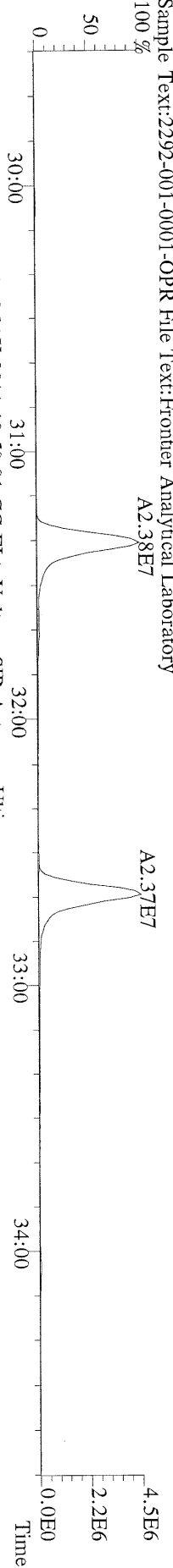
File:18MAY11M #1-412 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
 Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



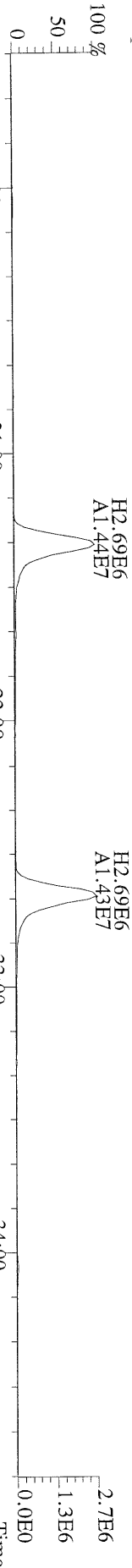
File:18MAY11M #1-412 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
 341.8568 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
 Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



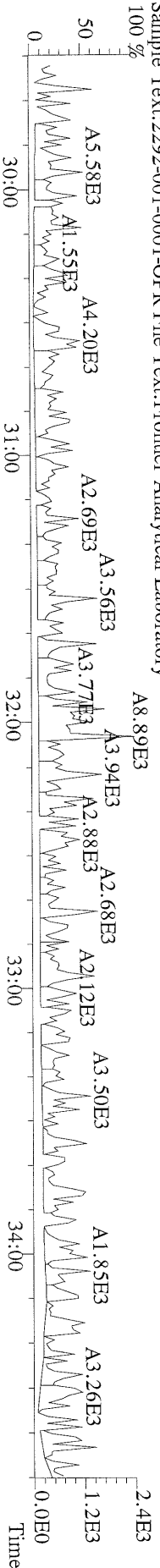
File:18MAY11M #1-412 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
 351.9000 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
 Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



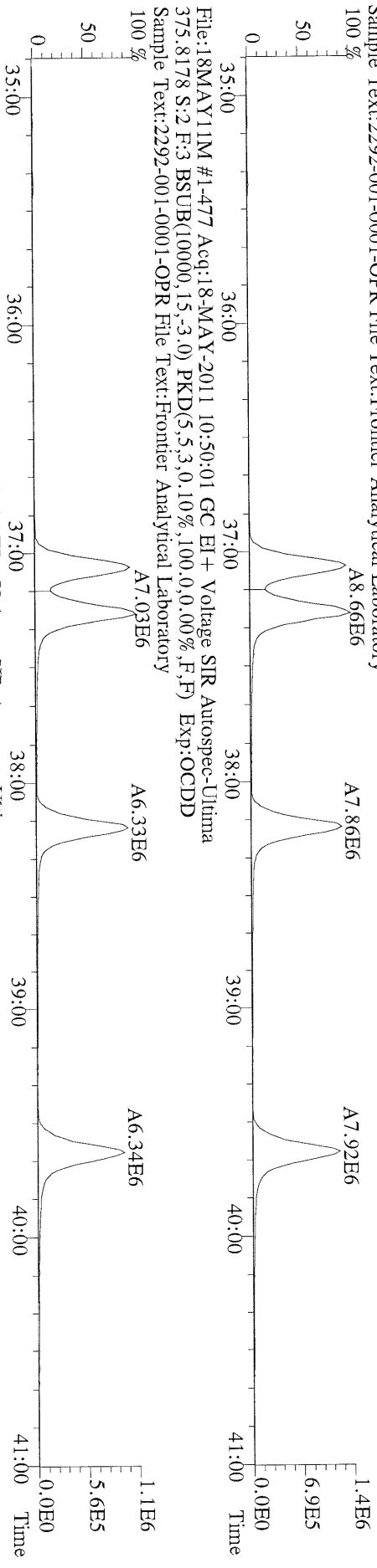
File:18MAY11M #1-412 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
 353.8970 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
 Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



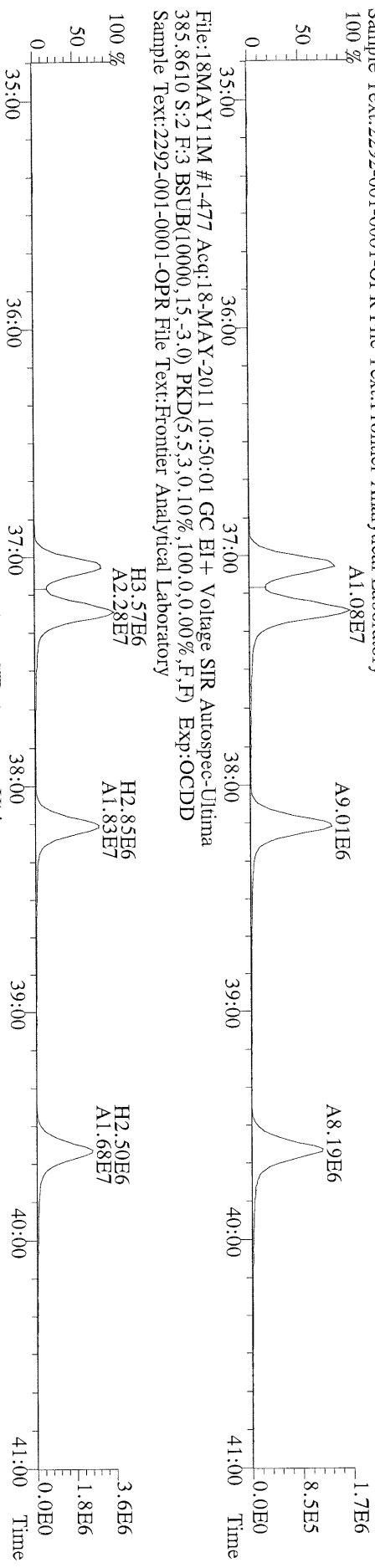
File:18MAY11M #1-412 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
 Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



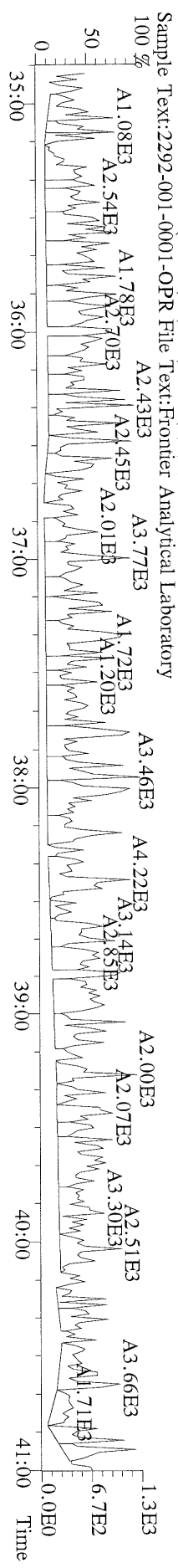
File:18MAY11M #1-477 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Utima  
 373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
 Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



File:18MAY11M #1-477 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Utima  
 383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
 Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory

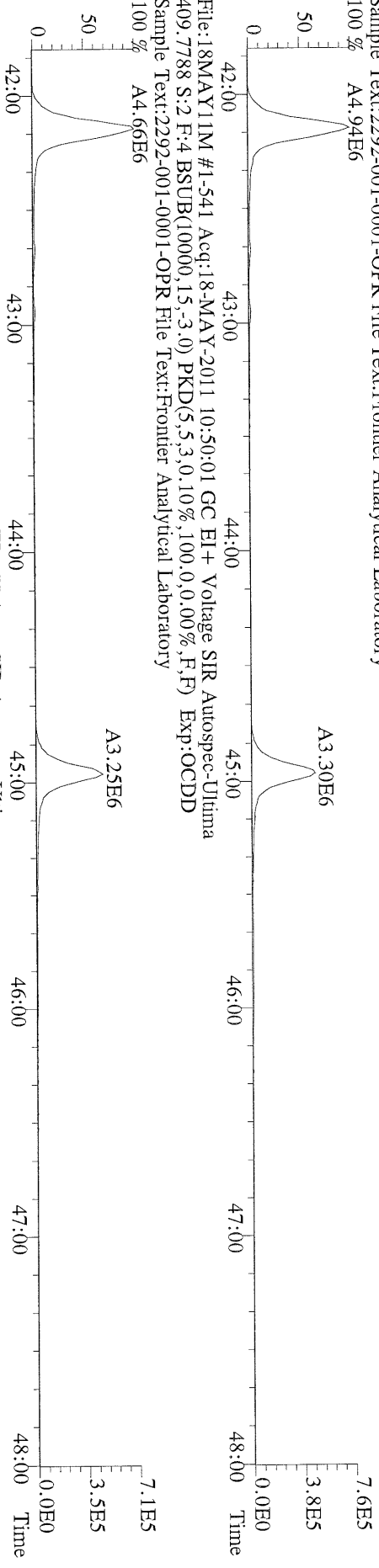


File:18MAY11M #1-477 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Utima  
 445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
 Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory

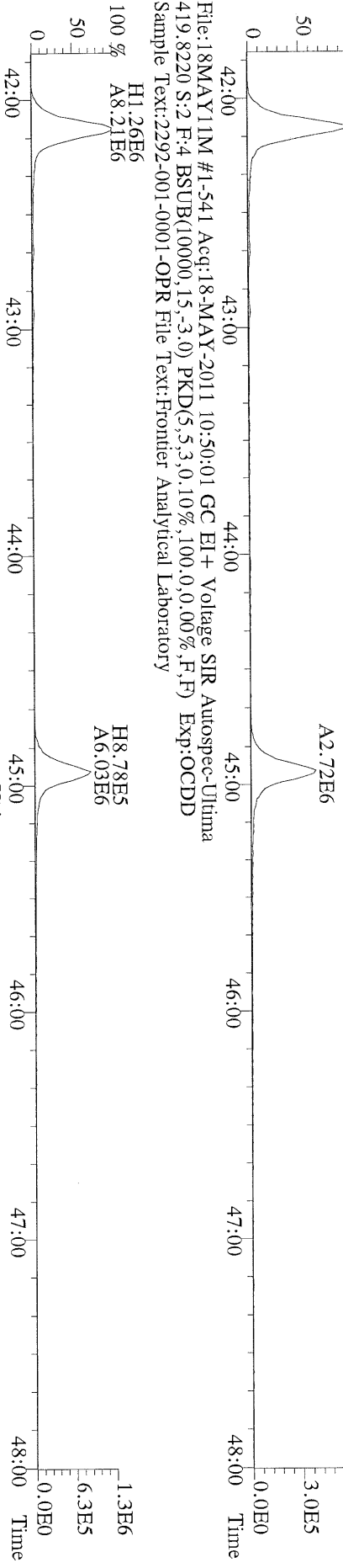




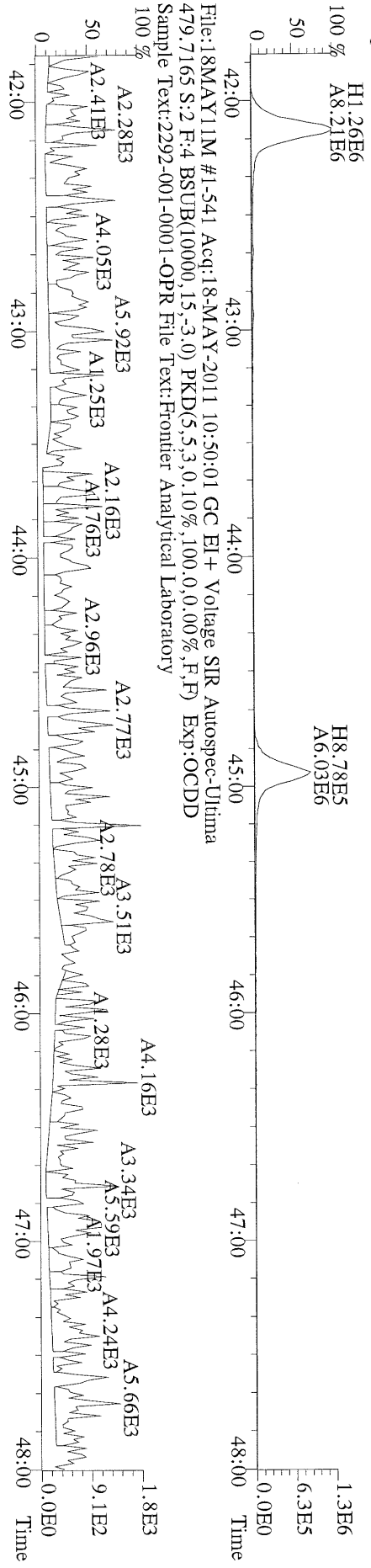
File:18MAY11M #1-541 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Utima  
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



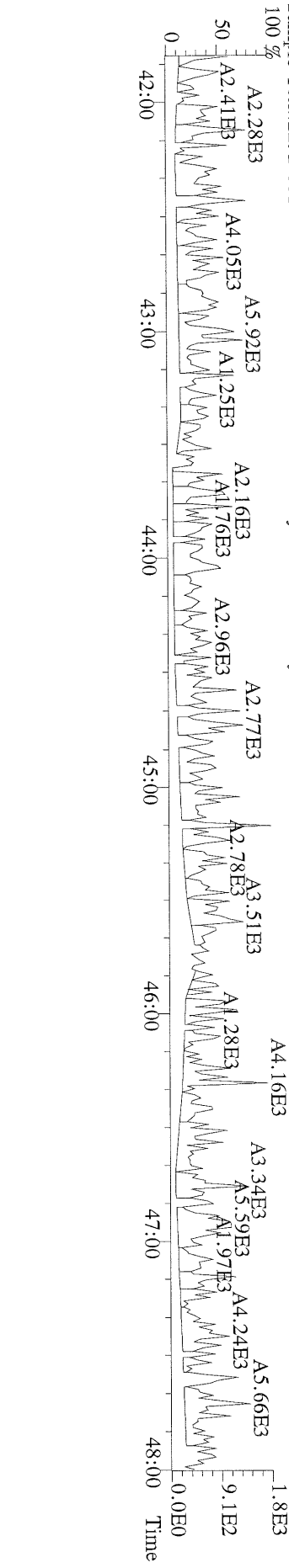
File:18MAY11M #1-541 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Utima  
417.8253 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



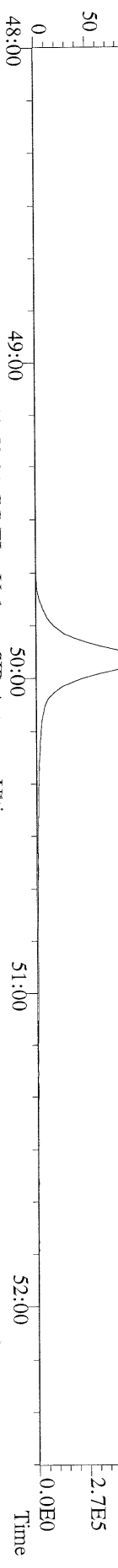
File:18MAY11M #1-541 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Utima  
419.8220 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



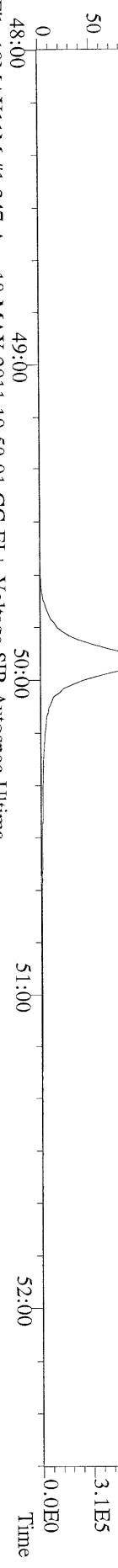
File:18MAY11M #1-541 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Utima  
479.7165 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



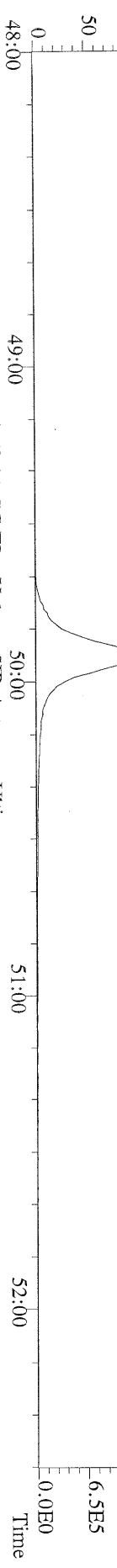
File:18MAY11M #1-347 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
 441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) F,F) Exp:OCDD  
 Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



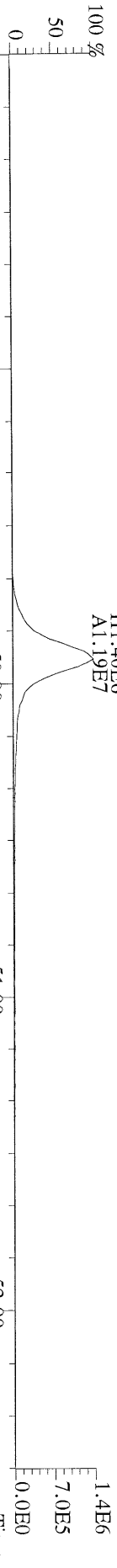
File:18MAY11M #1-347 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
 443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) F,F) Exp:OCDD  
 Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



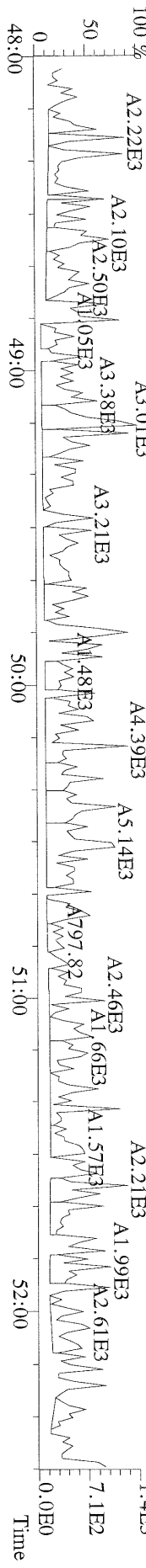
File:18MAY11M #1-347 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
 453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) F,F) Exp:OCDD  
 Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



File:18MAY11M #1-347 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
 455.7801 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) F,F) Exp:OCDD  
 Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



File:18MAY11M #1-347 Acq:18-MAY-2011 10:50:01 GC EI+ Voltage SIR Autospec-Ultima  
 513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) F,F) Exp:OCDD  
 Sample Text:2292-001-0001-OPR File Text:Frontier Analytical Laboratory



FAL ID: 6742-001-0001-SA      Filename: 18MAY11M      Sam:4      Acquired: 18-MAY-11 12:40:47      ICal: PCDDFAL3-3-7-11

Client ID: MW5042811

ConCal: ST051811M1      EndCal: ST051811M2

Results: 6742

GC Column: db5      Amount: 1.018

NATO 1989 Tox: 0.429

WHO 1998 Tox: 0.295

WHO 2005 Tox:

9N 5/23/11  
TEQ=0.325

0.324

DL

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.13	*		2.50	908	900	0.984	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.02	*		2.50	836	792	1.36	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.45	*		2.50	1660	1310	2.44	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.45	*		2.50	1660	1310	3.11	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.47	*		2.50	1660	1310	2.72	
1,2,3,4,6,7,8-HpCDD	2.87e+05	0.89 y	44:03	1.30	24.5	J	2.50	-	-	*	
OCDD	1.04e+06	0.90 y	49:34	1.45	139		2.50	-	-	*	
2,3,7,8-TCDF	*	* n	NotFnd	1.15	*		2.50	640	841	0.487	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.89	*		2.50	768	1020	1.02	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.89	*		2.50	768	1020	1.17	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.01	*		2.50	732	808	1.18	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.89	*		2.50	732	808	1.11	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.02	*		2.50	732	808	1.26	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.10	*		2.50	732	808	1.29	
1,2,3,4,6,7,8-HpCDF	4.89e+04	0.98 y	42:10	1.48	3.50	J	2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.43	*		2.50	612	592	2.14	
OCDF	8.03e+04	0.82 y	49:56	0.84	10.6	J	2.50	-	-	*	
13C-2,3,7,8-TCDD	3.61e+07	0.79 y	27:15	1.03	1620					82.6	
13C-1,2,3,7,8-PeCDD	3.15e+07	1.73 y	33:04	1.01	1440					73.3	
13C-1,2,3,4,7,8-HxCDD	2.30e+07	1.27 y	38:26	1.19	1600					81.2	
13C-1,2,3,6,7,8-HxCDD	2.00e+07	1.29 y	38:36	0.94	1770					89.9	
13C-1,2,3,4,6,7,8-HpCDD	1.77e+07	1.05 y	44:02	0.83	1770					90.0	
13C-OCDD	2.04e+07	0.92 y	49:34	0.61	2770					70.6	
13C-2,3,7,8-TCDF	5.76e+07	0.87 y	26:31	0.98	1700					86.4	
13C-1,2,3,7,8-PeCDF	4.79e+07	1.66 y	31:20	0.83	1670					84.8	
13C-2,3,4,7,8-PeCDF	4.47e+07	1.66 y	32:39	0.80	1600					81.6	
13C-1,2,3,4,7,8-HxCDF	3.61e+07	0.48 y	37:03	1.84	1620					82.4	
13C-1,2,3,6,7,8-HxCDF	4.67e+07	0.48 y	37:14	2.29	1680					85.6	
13C-2,3,4,6,7,8-HxCDF	3.68e+07	0.48 y	38:11	1.86	1640					83.2	
13C-1,2,3,7,8,9-HxCDF	3.56e+07	0.48 y	39:37	1.98	1490					75.6	
13C-1,2,3,4,6,7,8-HpCDF	1.86e+07	0.45 y	42:08	0.99	1550					79.0	
13C-1,2,3,4,7,8,9-HpCDF	1.31e+07	0.46 y	44:57	0.77	1410					71.8	
13C-OCDF	3.53e+07	0.94 y	49:55	1.17	2510					63.8	
37Cl-2,3,7,8-TCDD	1.02e+07		27:17	0.73	648					82.4	
13C-1,2,3,4-TCDD	4.25e+07	0.78 y	26:41	-	110						
13C-1,2,3,4-TCDF	6.81e+07	0.88 y	25:25	-	92.9						
13C-1,2,3,7,8,9-HxCDD	2.38e+07	1.29 y	39:03	-	94.2						
Total Tetra-Dioxins	*		NotFnd	1.13	*		2.50	908	900	0.984	0
Total Penta-Dioxins	*		NotFnd	1.02	*		2.50	836	792	1.36	0
Total Hexa-Dioxins	*		NotFnd	1.46	*		2.50	1660	1310	3.11	0
Total Hepta-Dioxins	5.29e+05		42:41	1.30	45.1		2.50	-	-	*	2
Total Tetra-Furans	3.53e+05		25:42	1.15	10.5		2.50	-	-	*	3
1st Fn. Tot Penta-Furans	*		NotFnd	0.89	*		2.50	-	-	*	PeCDF 0
Total Penta-Furans	5.84e+04		31:39	0.89	2.79	J	2.50	-	-	*	2.79 1
Total Hexa-Furans	1.03e+05		36:17	1.00	5.23	J	2.50	-	-	*	2
Total Hepta-Furans	1.51e+05		42:10	1.46	12.2	J	2.50	-	-	*	2

Analyst: 

Date: 5/19/11

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 10 File: 18MAY11M S: 4 I: 1 F: 4  
Acquired: 18-MAY-11 12:40:47

Total Concentration: 45.1

Unnamed Concentration: 20.673

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:41	1.25e+05	1.17e+05	1.08 y	2.42e+05	20.7	
44:03	1.35e+05	1.51e+05	0.89 y	2.87e+05	24.5	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 10 File: 18MAY11M S: 4 I: 1 F: 1  
Acquired: 18-MAY-11 12:40:47

Total Concentration: 10.5

Unnamed Concentration: 10.492

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
25:42	2.71e+04	3.55e+04	0.76 y	6.27e+04	1.86	
27:45	8.44e+04	1.19e+05	0.71 y	2.03e+05	6.03	
27:57	3.58e+04	5.18e+04	0.69 y	8.76e+04	2.60	

Totals class: Total Penta-Furans

Entry #: 44

Run: 10 File: 18MAY11M S: 4 I: 1 F: 2  
Acquired: 18-MAY-11 12:40:47

Total Concentration: 2.79

Unnamed Concentration: 2.789

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
31:39	3.35e+04	2.49e+04	1.34 y	5.84e+04	2.79	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 10 File: 18MAY11M S: 4 I: 1 F: 3  
Acquired: 18-MAY-11 12:40:47

Total Concentration: 5.23

Unnamed Concentration: 5.228

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:17	2.36e+04	2.13e+04	1.11 y	4.48e+04	2.27	
38:00	3.29e+04	2.56e+04	1.28 y	5.85e+04	2.96	

Totals class: Total Hepta-Furans

Entry #: 46

Run: 10 File: 18MAY11M S: 4 I: 1 F: 4  
Acquired: 18-MAY-11 12:40:47

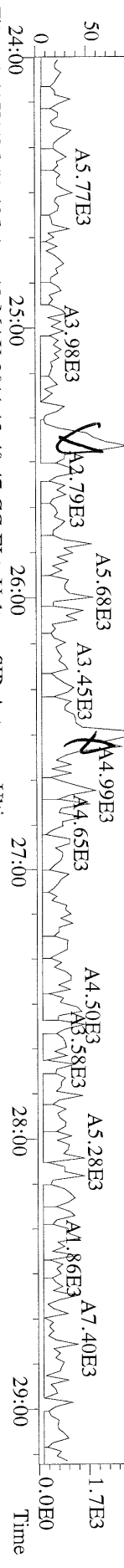
Total Concentration: 12.2

Unnamed Concentration: 8.676

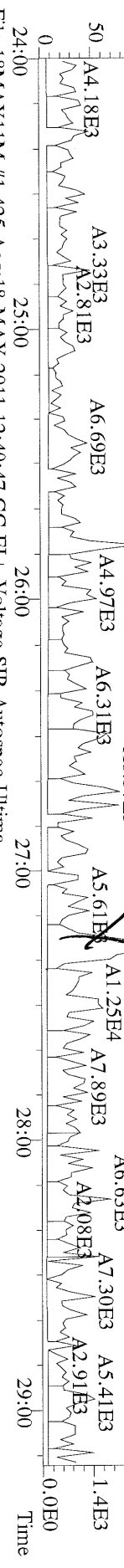
RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:10	2.42e+04	2.47e+04	0.98 y	4.89e+04	3.50	1,2,3,4,6,7,8-HpCDF
42:58	5.20e+04	4.98e+04	1.04 y	1.02e+05	8.68	



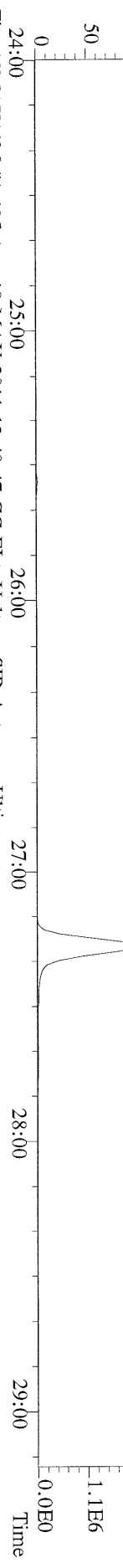
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI + Voltage SIR Autospec-Ultima  
 319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



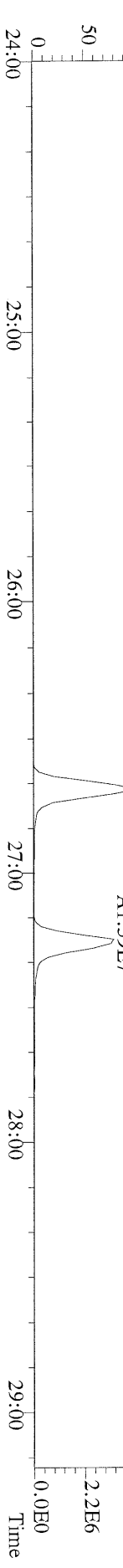
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI + Voltage SIR Autospec-Ultima  
 321.8936 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



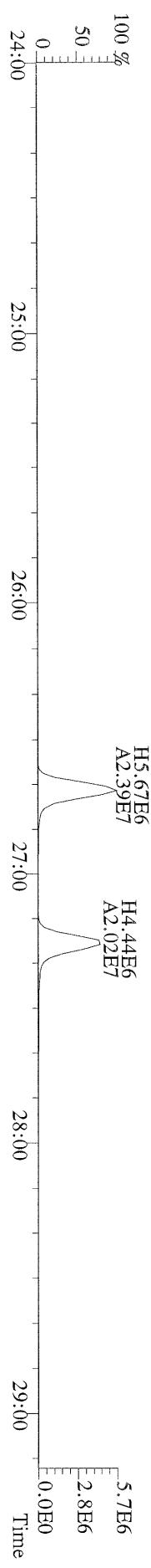
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI + Voltage SIR Autospec-Ultima  
 327.8847 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



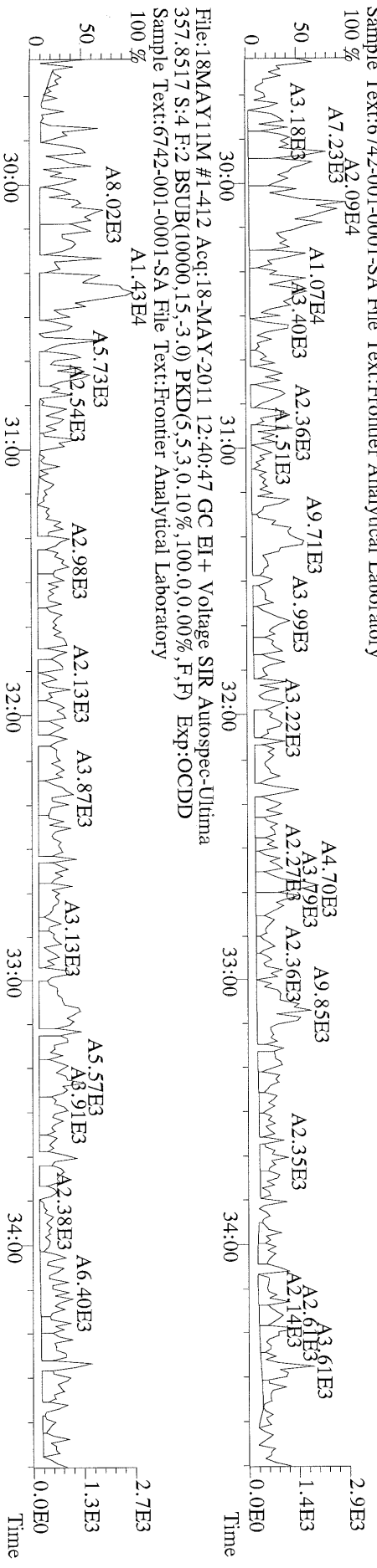
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI + Voltage SIR Autospec-Ultima  
 331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



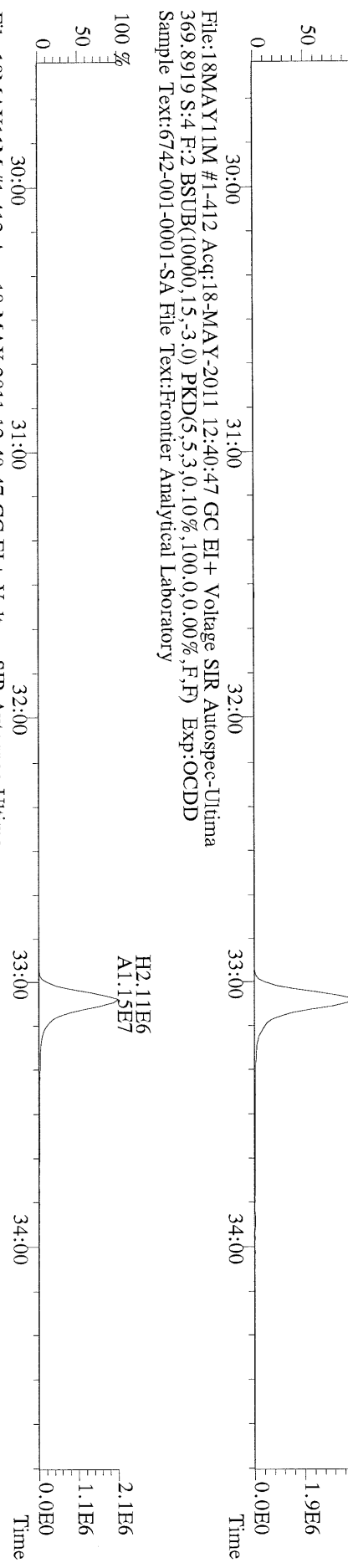
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI + Voltage SIR Autospec-Ultima  
 333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



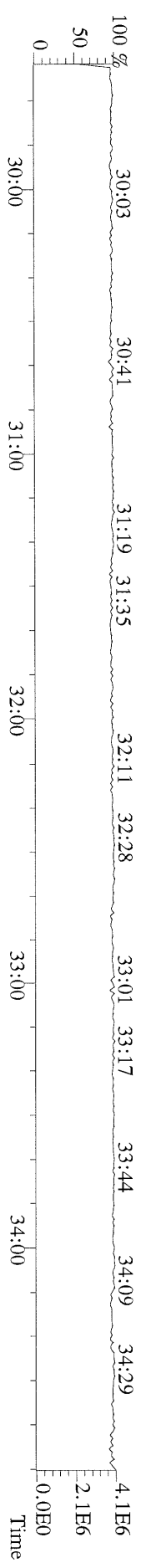
File:18MAY11M #1-412 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



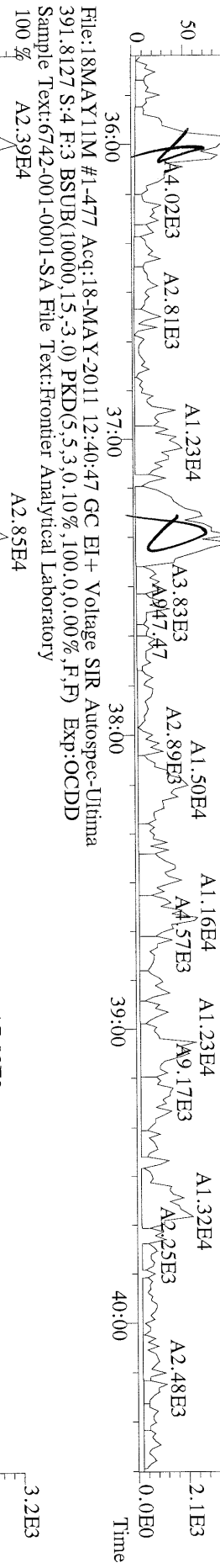
File:18MAY11M #1-412 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



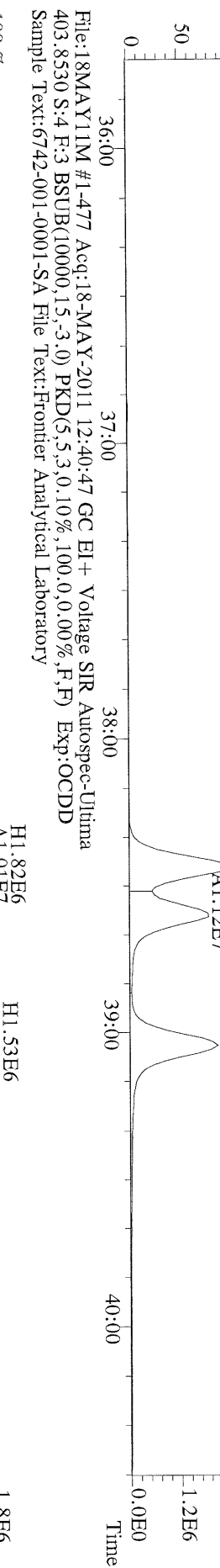
File:18MAY11M #1-412 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
366.9792 S:4 F:2 Exp:OCDD  
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



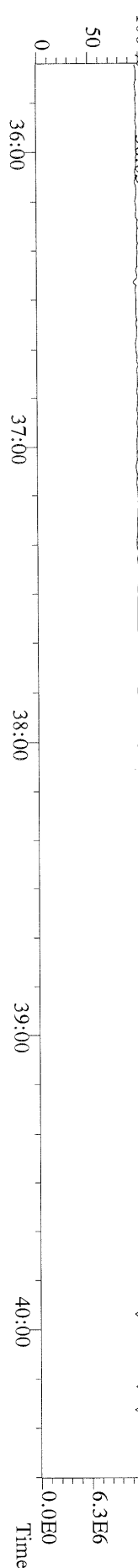
File:18MAY11M #1-477 Acq:18-MAY-2011 12:40:47 GC EI + Voltage SIR Autospec-Ultima  
 389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory  
 100% A3.05E4



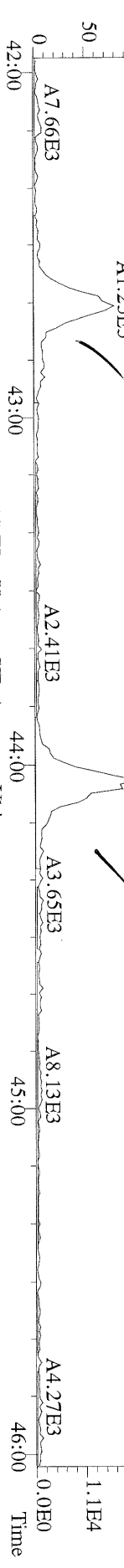
File:18MAY11M #1-477 Acq:18-MAY-2011 12:40:47 GC EI + Voltage SIR Autospec-Ultima  
 401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory  
 100%



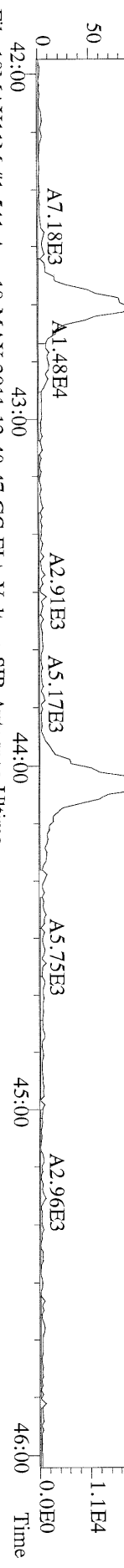
File:18MAY11M #1-477 Acq:18-MAY-2011 12:40:47 GC EI + Voltage SIR Autospec-Ultima  
 380.9760 S:4 F:3 Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory  
 100%



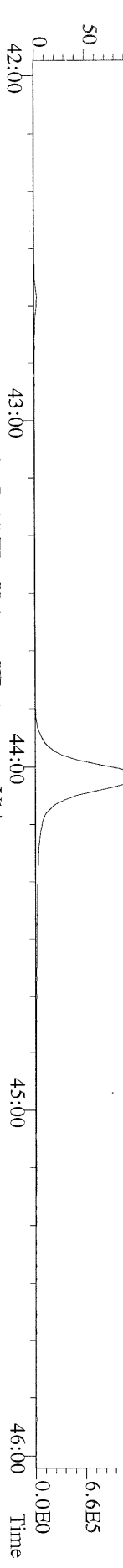
File:18MAY11M #1-541 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
 423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



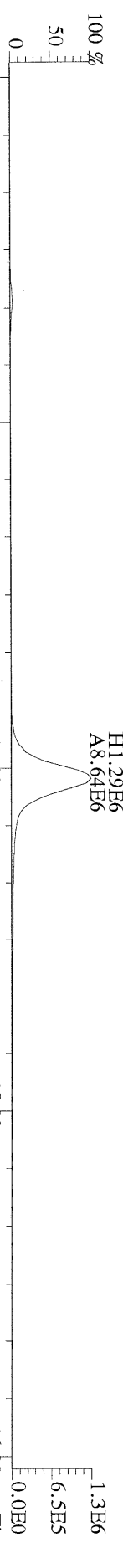
File:18MAY11M #1-541 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
 425.7737 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



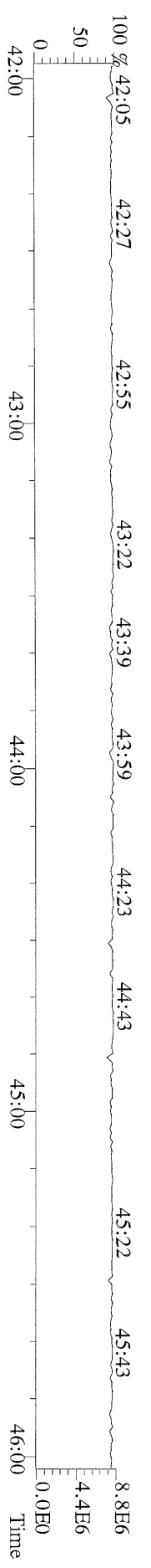
File:18MAY11M #1-541 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
 435.8169 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



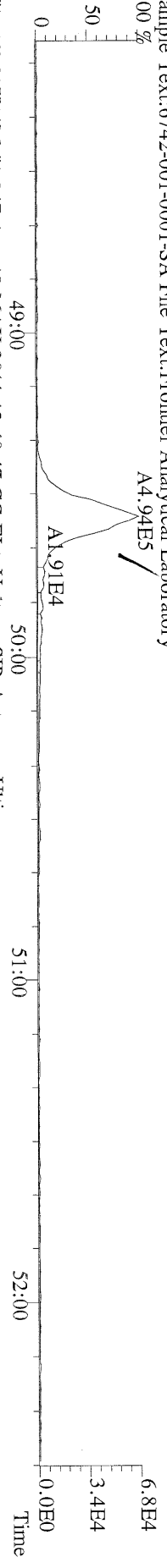
File:18MAY11M #1-541 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
 437.8140 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



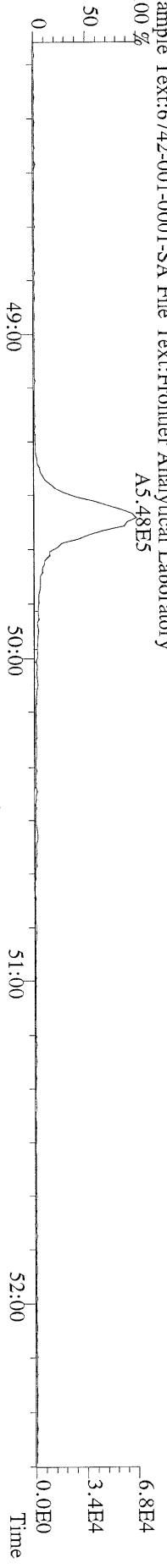
File:18MAY11M #1-541 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
 430.9728 S:4 F:4 Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



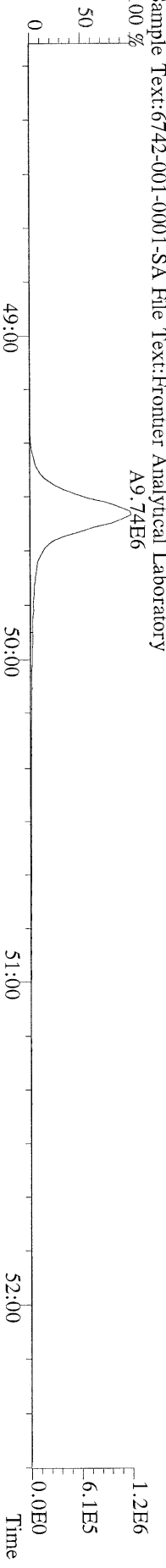
File:18MAY11M #1-347 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory  
100 %  
A4.94E5 ✓



File:18MAY11M #1-347 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
459.7348 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory  
100 %  
A5.48E5

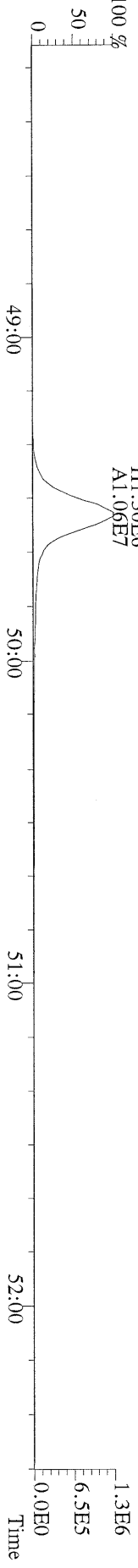


File:18MAY11M #1-347 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
469.7780 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory  
100 %  
A9.74E6

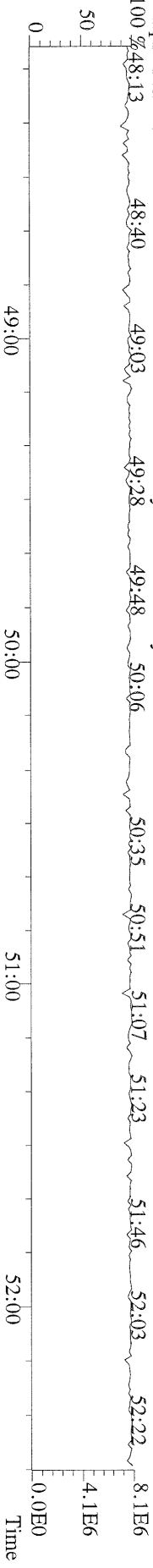


File:18MAY11M #1-347 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
471.7750 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory

H1.30E6  
A1.06E7



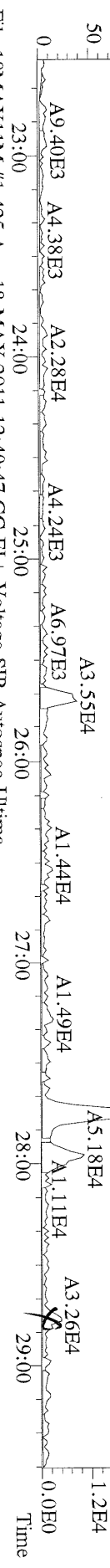
File:18MAY11M #1-347 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
454.9728 S:4 F:5 Exp:OCDD  
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory  
100 %  
48.13  
48.40  
49.03  
49.28  
49.48  
50.06  
50.35  
50.51  
51.07  
51.23  
51.46  
52.03  
52.22



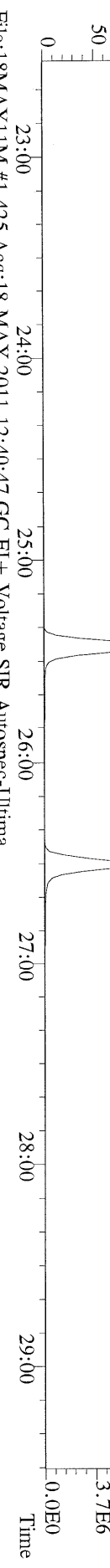
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
 303.9016 S:4 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



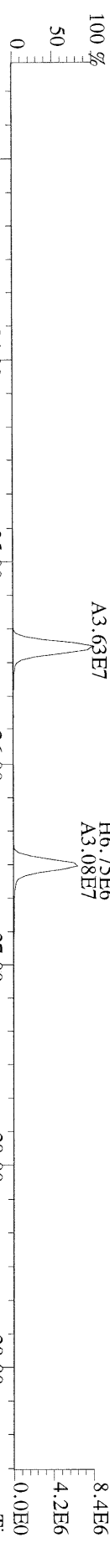
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
 305.8987 S:4 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



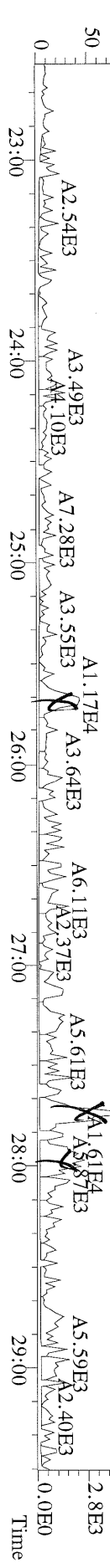
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
 315.9419 S:4 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



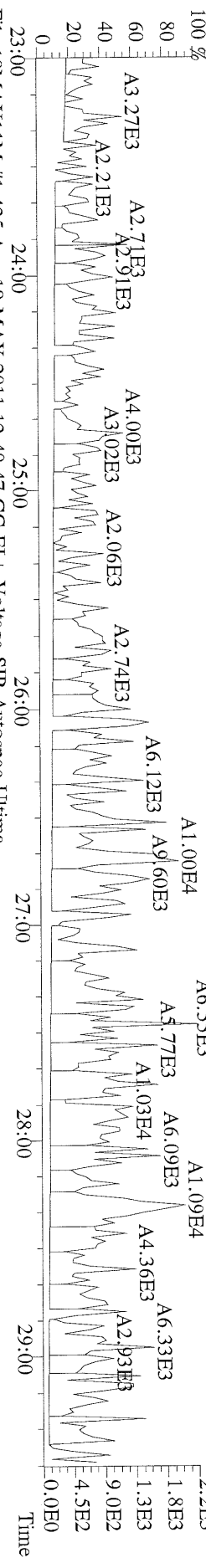
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
 317.9389 S:4 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



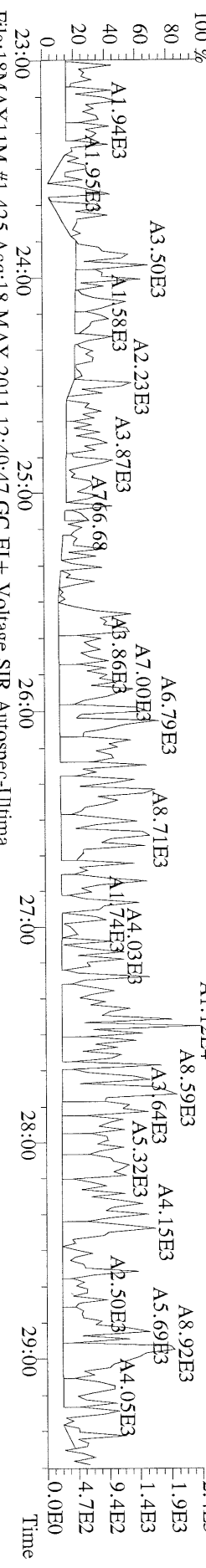
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
 375.8364 S:4 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



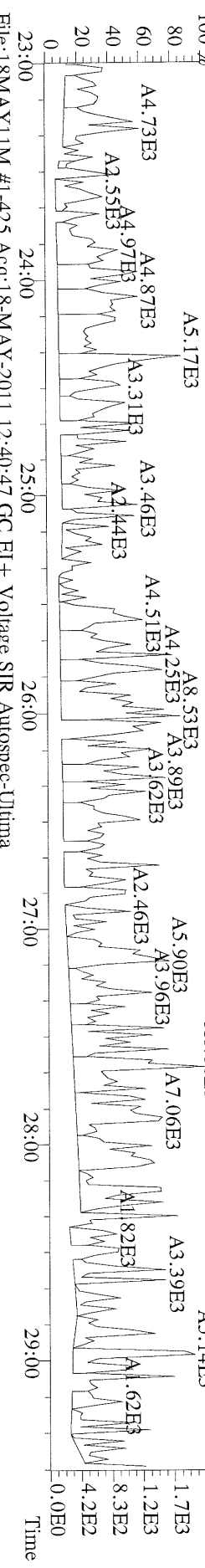
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



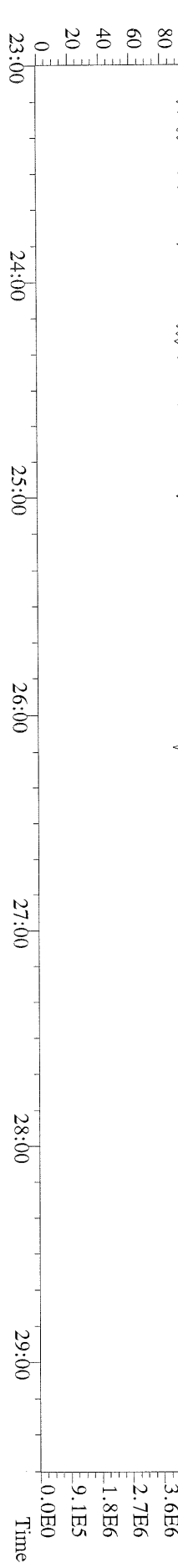
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
 341.8568 S:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



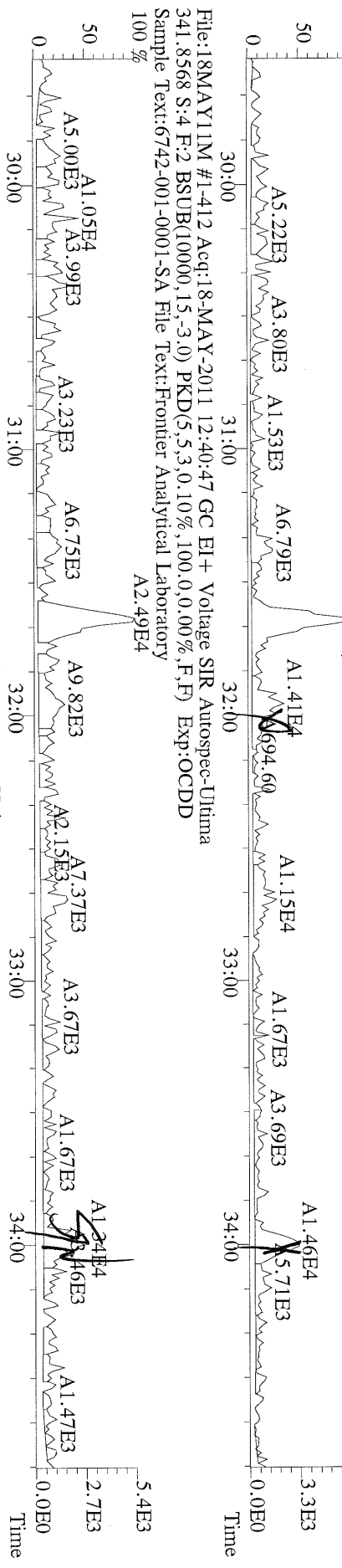
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



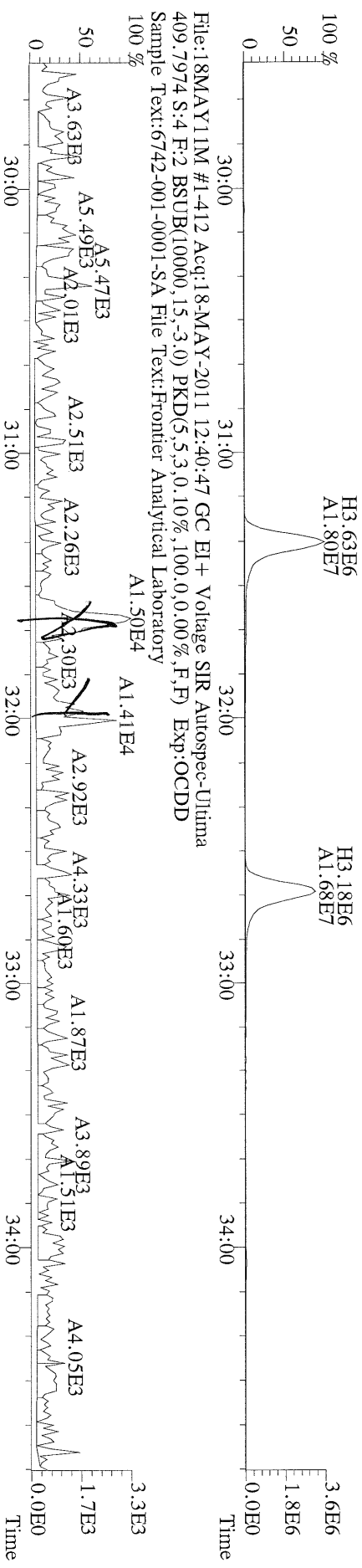
File:18MAY11M #1-425 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
 316.9824 S:4 Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11M #1-412 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11M #1-412 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
 351.9000 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory

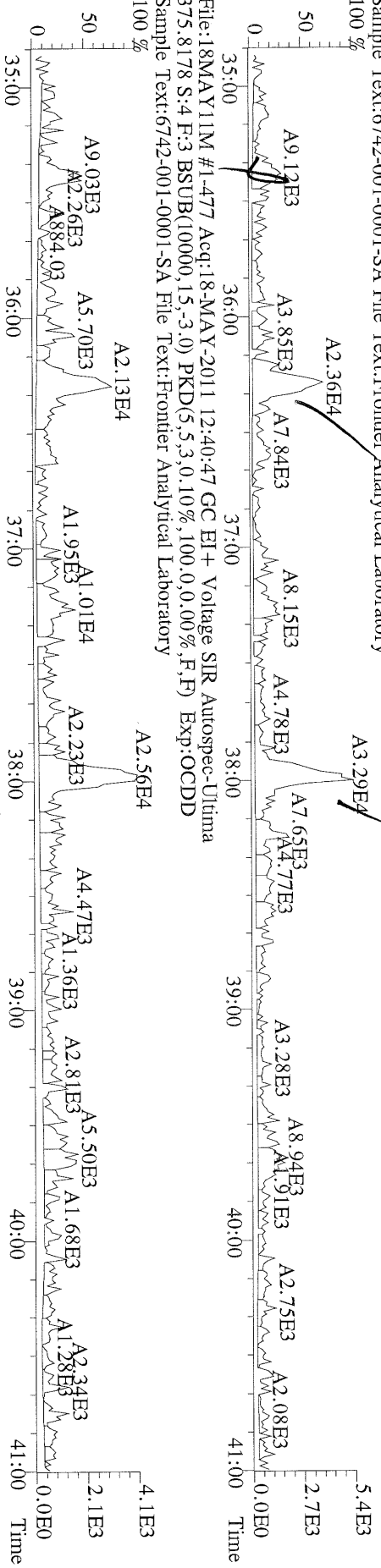


File:18MAY11M #1-412 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory

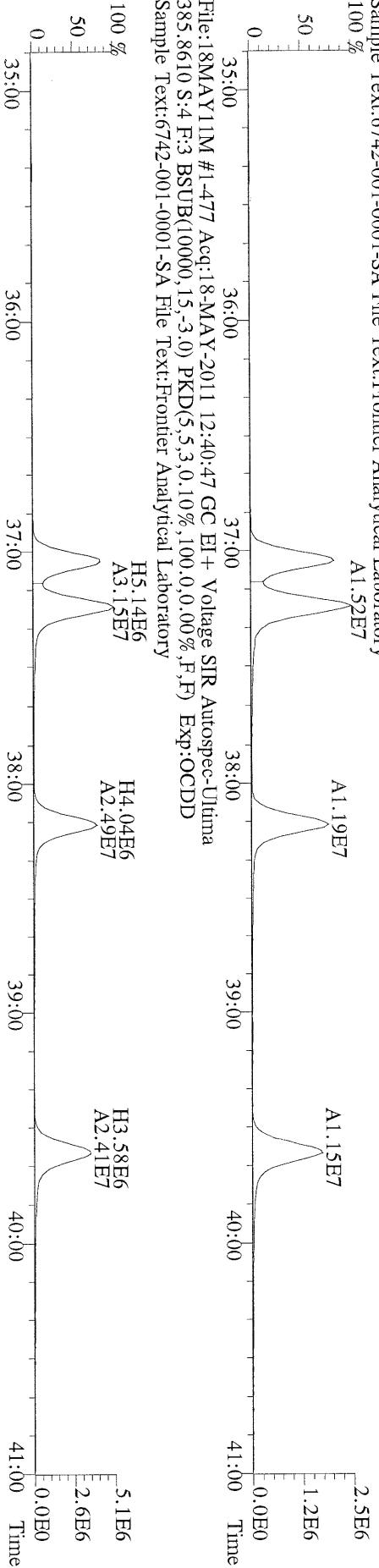




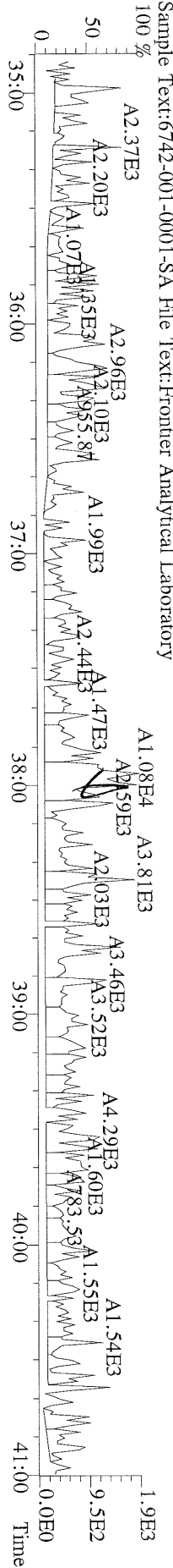
File:18MAY11M #1-477 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Utima  
 373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



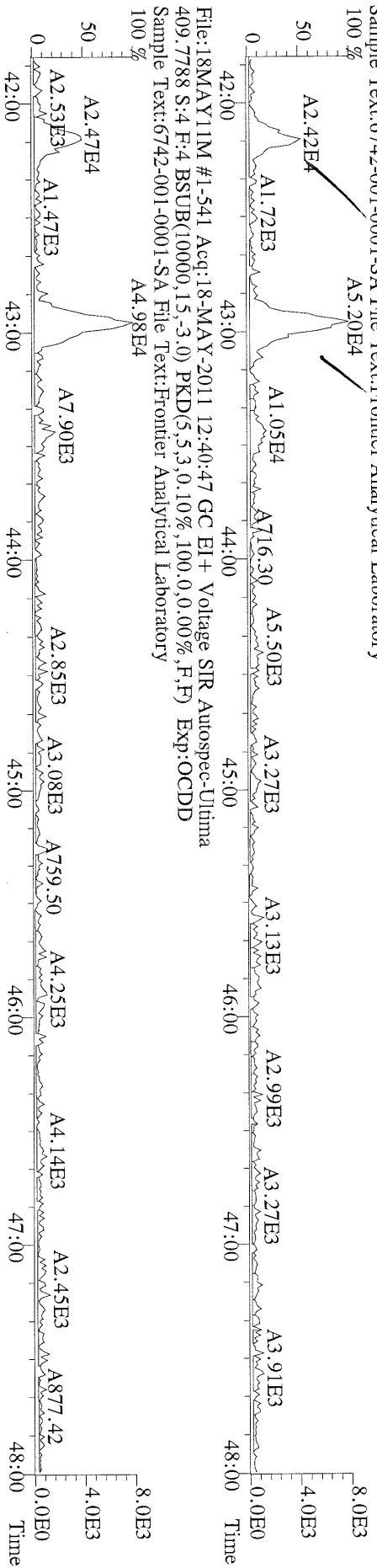
File:18MAY11M #1-477 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Utima  
 383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



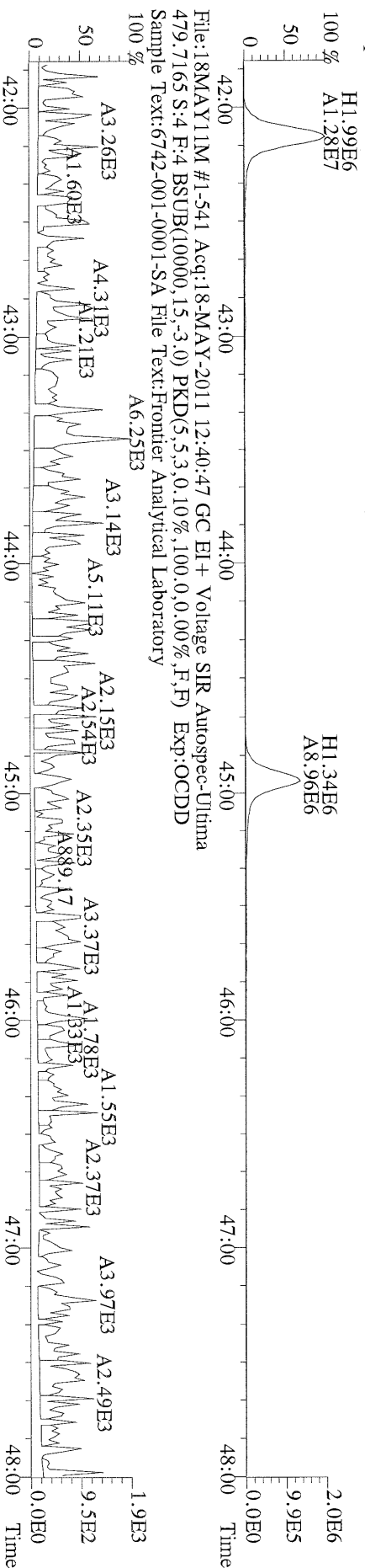
File:18MAY11M #1-477 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Utima  
 445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



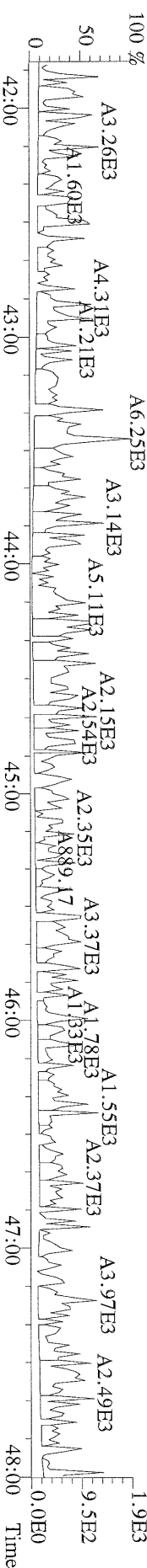
File:18MAY11M #1-541 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultime  
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



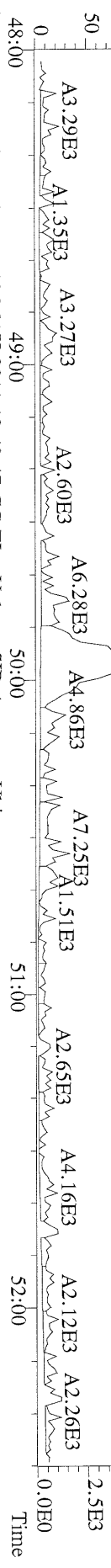
File:18MAY11M #1-541 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultime  
417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



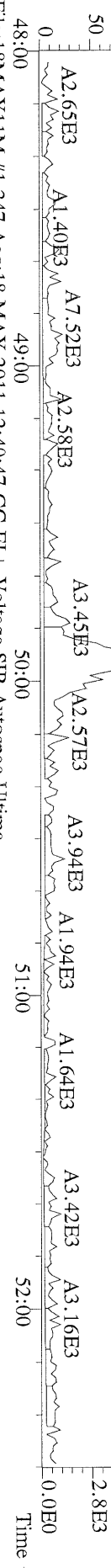
File:18MAY11M #1-541 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultime  
479.7165 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



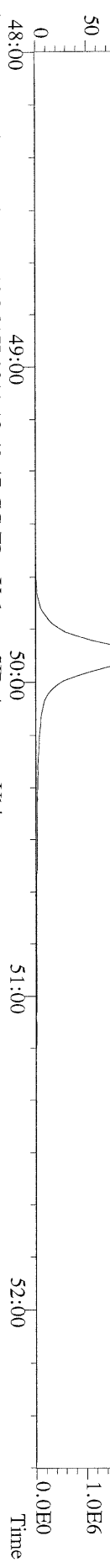
File:18MAY11M #1-347 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
 441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



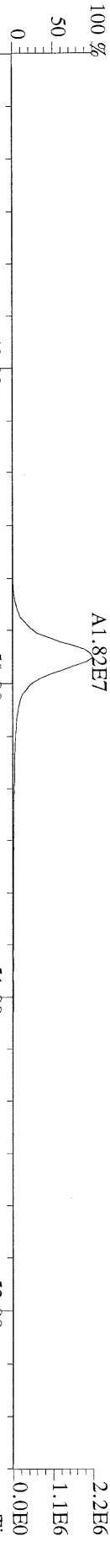
File:18MAY11M #1-347 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
 443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



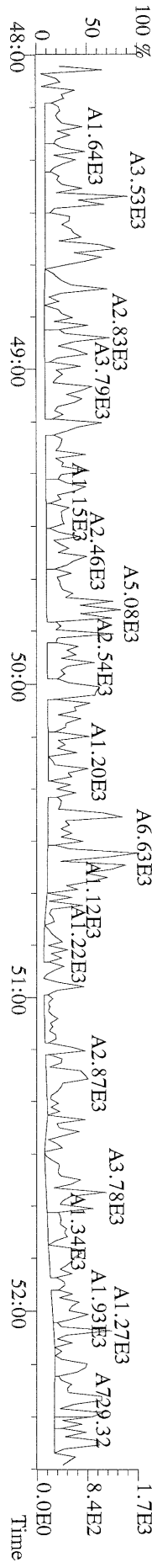
File:18MAY11M #1-347 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
 453.7831 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11M #1-347 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
 455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11M #1-347 Acq:18-MAY-2011 12:40:47 GC EI+ Voltage SIR Autospec-Ultima  
 513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-001-0001-SA File Text:Frontier Analytical Laboratory



GN 5/23/11  
TEQ = 0.0092

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.13	*		2.50	736	648	0.769	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.02	*		2.50	708	644	1.18	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.45	*		2.50	664	708	1.25	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.45	*		2.50	664	708	1.63	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.47	*		2.50	664	708	1.40	
1,2,3,4,6,7,8-HpCDD	8.38e+04	0.90 y	44:03	1.30	7.91	J	2.50	-	-	*	
OCDD	4.39e+05	0.88 y	49:34	1.45	66.9		2.50	-	-	*	
2,3,7,8-TCDF	*	* n	NotFnd	1.15	*		2.50	752	1140	0.677	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.89	*		2.50	620	928	0.965	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.89	*		2.50	620	928	1.09	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.01	*		2.50	632	628	1.05	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.89	*		2.50	632	628	1.00	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.02	*		2.50	632	628	1.11	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.10	*		2.50	632	628	1.14	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.48	*		2.50	767	838	2.05	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.43	*		2.50	449	515	1.94	
OCDF	*	* n	NotFnd	0.84	*		2.50	960	1120	6.50	
13C-2,3,7,8-TCDD	3.42e+07	0.77 y	27:16	1.03	1600					82.8	
13C-1,2,3,7,8-PeCDD	2.84e+07	1.77 y	33:04	1.01	1360					70.2	
13C-1,2,3,4,7,8-HxCDD	2.12e+07	1.26 y	38:26	1.19	1550					80.3	
13C-1,2,3,6,7,8-HxCDD	1.77e+07	1.28 y	38:36	0.94	1640					85.0	
13C-1,2,3,4,6,7,8-HpCDD	1.57e+07	1.06 y	44:01	0.83	1660					85.8	
13C-OCDD	1.75e+07	0.93 y	49:33	0.61	2510					65.0	
13C-2,3,7,8-TCDF	5.35e+07	0.86 y	26:30	0.98	1640					85.0	
13C-1,2,3,7,8-PeCDF	4.36e+07	1.62 y	31:20	0.83	1580					81.7	
13C-2,3,4,7,8-PeCDF	4.10e+07	1.64 y	32:39	0.80	1530					79.3	
13C-1,2,3,4,7,8-HxCDF	3.34e+07	0.48 y	37:02	1.84	1580					81.7	
13C-1,2,3,6,7,8-HxCDF	4.26e+07	0.48 y	37:14	2.29	1620					83.8	
13C-2,3,4,6,7,8-HxCDF	3.35e+07	0.47 y	38:11	1.86	1570					81.2	
13C-1,2,3,7,8,9-HxCDF	3.29e+07	0.49 y	39:36	1.98	1450					74.9	
13C-1,2,3,4,6,7,8-HpCDF	1.61e+07	0.46 y	42:08	0.99	1420					73.5	
13C-1,2,3,4,7,8,9-HpCDF	1.17e+07	0.46 y	44:57	0.77	1340					69.1	
13C-OCDF	3.04e+07	0.93 y	49:55	1.17	2270					58.8	
37Cl-2,3,7,8-TCDD	9.91e+06		27:17	0.73	654					84.7	
13C-1,2,3,4-TCDD	4.01e+07	0.78 y	26:41	-	102						
13C-1,2,3,4-TCDF	6.43e+07	0.87 y	25:26	-	86.3						
13C-1,2,3,7,8,9-HxCDD	2.22e+07	1.26 y	39:03	-	86.4						
Total Tetra-Dioxins	*		NotFnd	1.13	*		2.50	736	648	0.769	0
Total Penta-Dioxins	*		NotFnd	1.02	*		2.50	708	644	1.18	0
Total Hexa-Dioxins	*		NotFnd	1.46	*		2.50	664	708	1.63	0
Total Hepta-Dioxins	1.94e+05		42:40	1.30	18.4	J	2.50	-	-	*	2
Total Tetra-Furans	*		NotFnd	1.15	*		2.50	752	1140	0.677	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.89	*		2.50	620	928	1.09	PeCDF 0
Total Penta-Furans	*		NotFnd	0.89	*		2.50	620	928	1.09	0.00 0
Total Hexa-Furans	*		NotFnd	1.00	*		2.50	632	628	1.14	0
Total Hepta-Furans	5.09e+04		42:56	1.46	4.85	J	2.50	-	-	*	1

Analyst: 

Date: 5/19/11

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 11 File: 18MAY11M S: 5 I: 1 F: 4  
Acquired: 18-MAY-11 13:36:09

Total Concentration: 18.4

Unnamed Concentration: 10.452

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:40	5.44e+04	5.63e+04	0.97 y	1.11e+05	10.5	
44:03	3.96e+04	4.41e+04	0.90 y	8.38e+04	7.91	1,2,3,4,6,7,8-HpCDD

Totals class: Total Hepta-Furans

Entry #: 46

Run: 11 File: 18MAY11M S: 5 I: 1 F: 4  
Acquired: 18-MAY-11 13:36:09

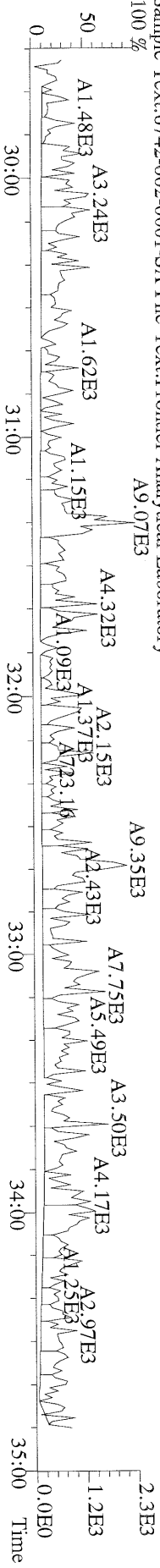
Total Concentration: 4.85

Unnamed Concentration: 4.852

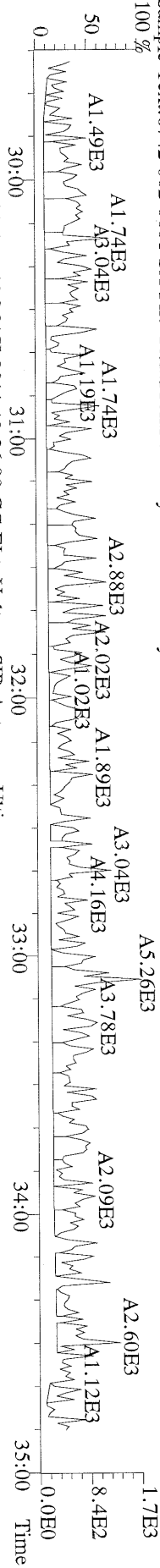
RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:56	2.41e+04	2.68e+04	0.90 y	5.09e+04	4.85	



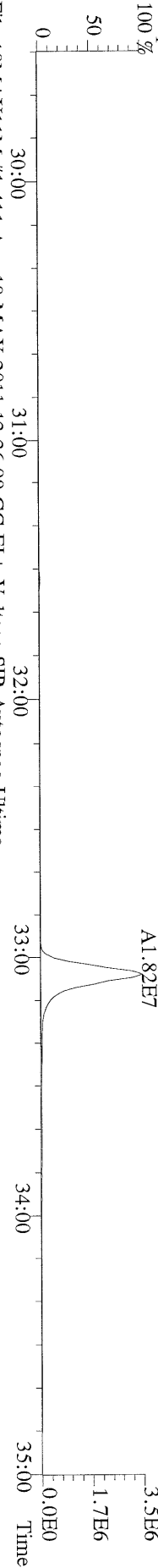
File:18MAY11M #1-411 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima  
 355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



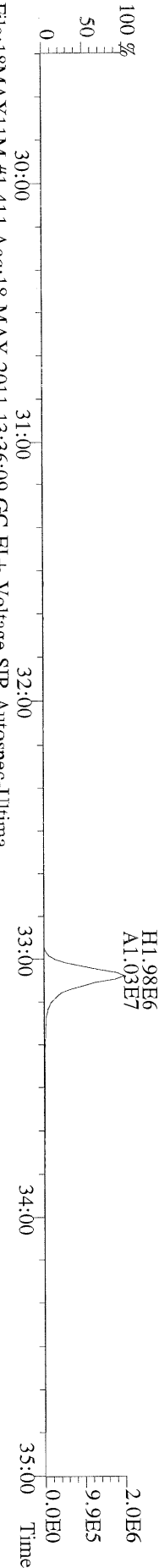
File:18MAY11M #1-411 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima  
 357.8517 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



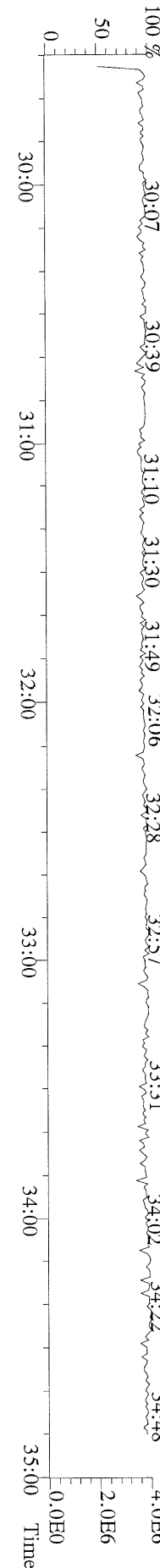
File:18MAY11M #1-411 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima  
 367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11M #1-411 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima  
 369.8919 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory

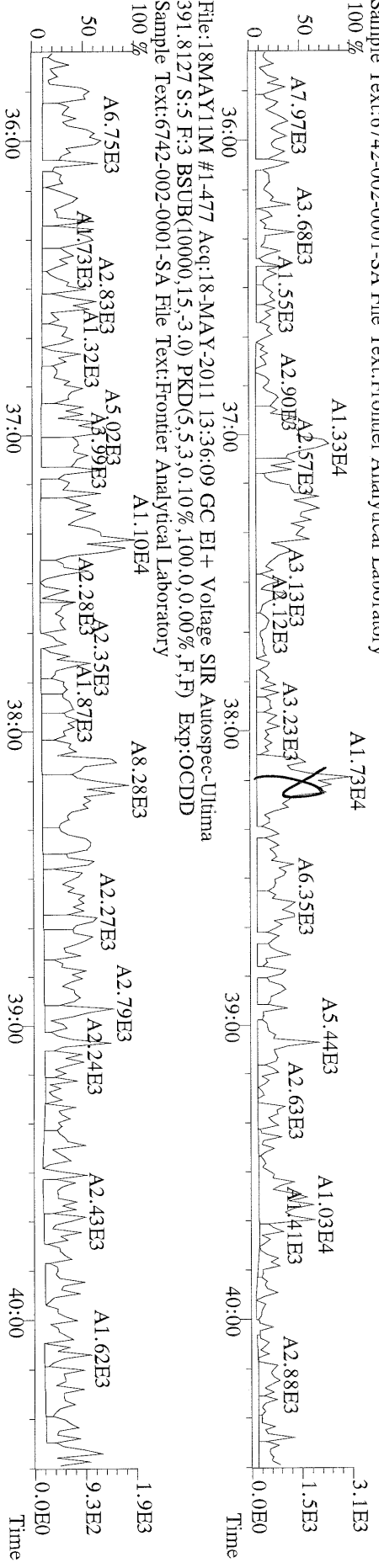


File:18MAY11M #1-411 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima  
 366.9792 S:5 F:2 Exp:OCDD  
 Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory

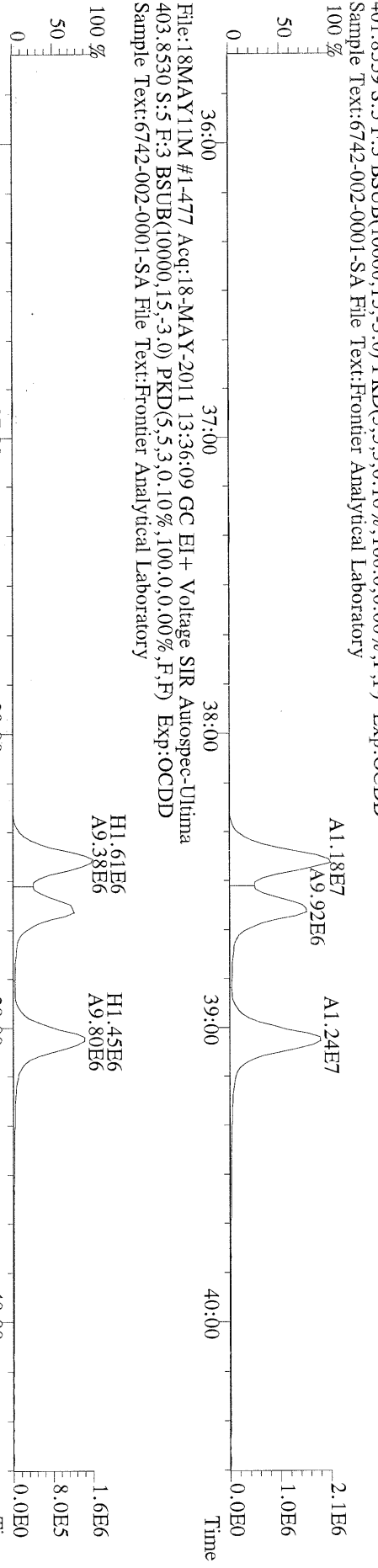




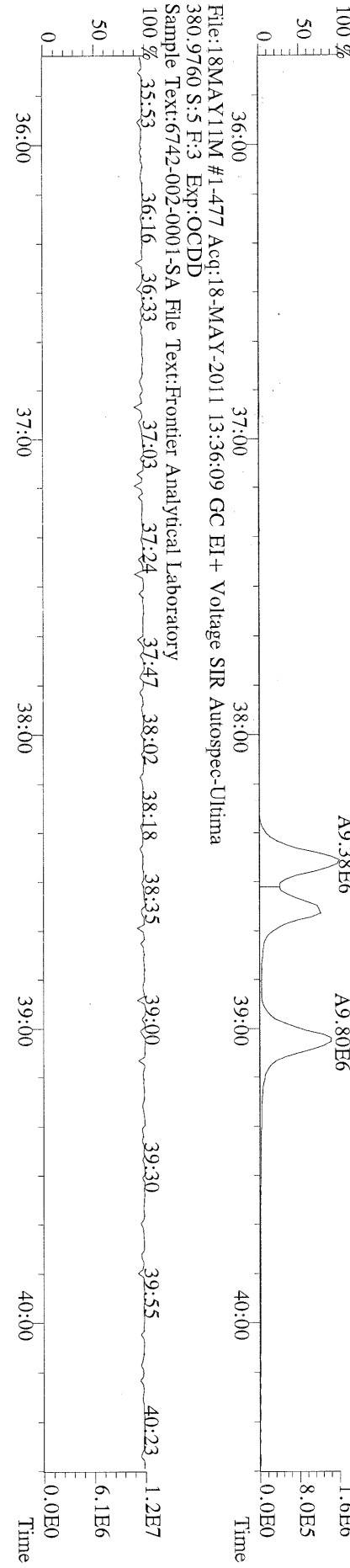
File:18MAY11M #1-477 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima  
 389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



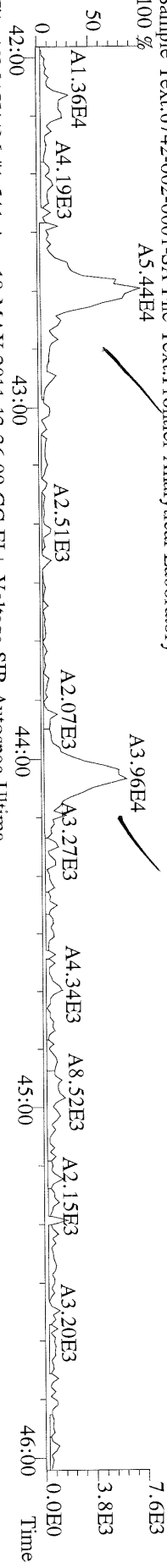
File:18MAY11M #1-477 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima  
 401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



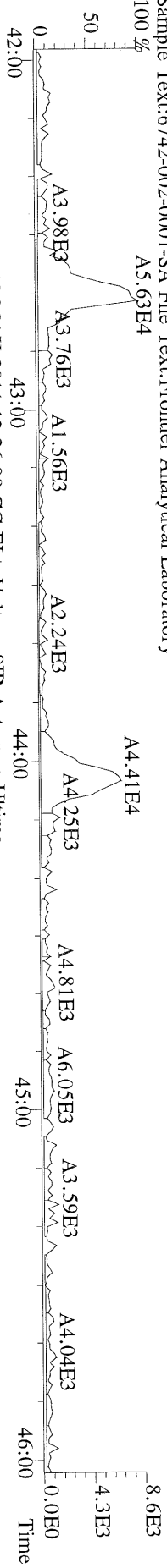
File:18MAY11M #1-477 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima  
 403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



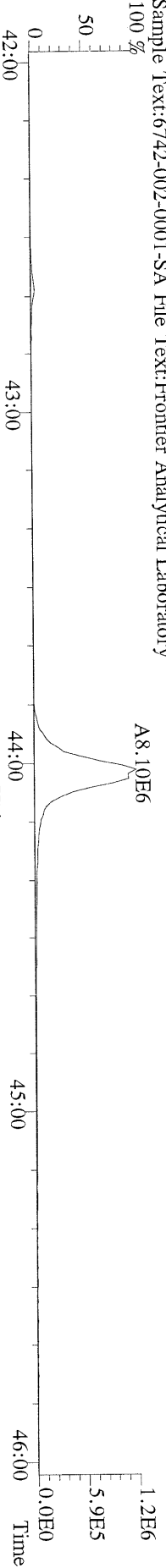
File:18MAY11M #1-541 Acq:18-MAY-2011 13:36:09 GC EI + Voltage SIR Autospec-Ultima  
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



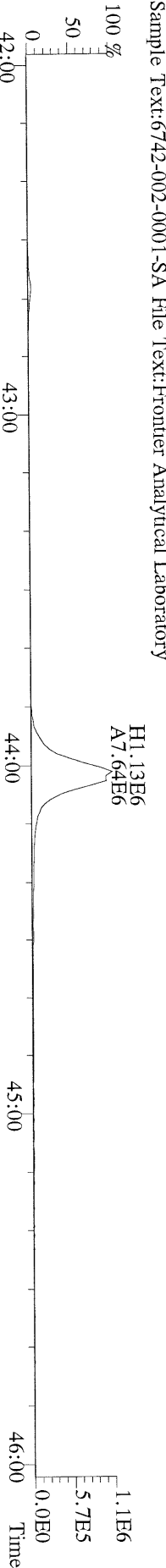
File:18MAY11M #1-541 Acq:18-MAY-2011 13:36:09 GC EI + Voltage SIR Autospec-Ultima  
425.7737 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



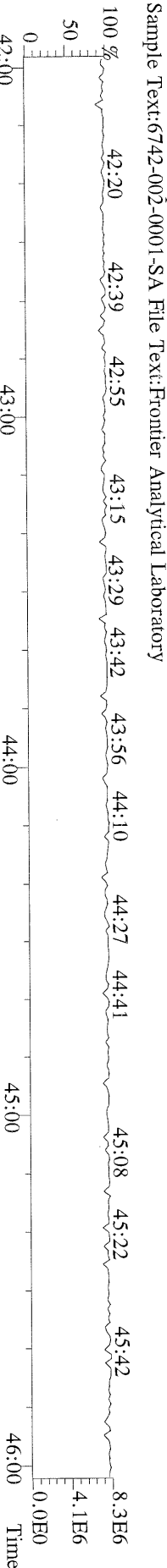
File:18MAY11M #1-541 Acq:18-MAY-2011 13:36:09 GC EI + Voltage SIR Autospec-Ultima  
435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11M #1-541 Acq:18-MAY-2011 13:36:09 GC EI + Voltage SIR Autospec-Ultima  
437.8140 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



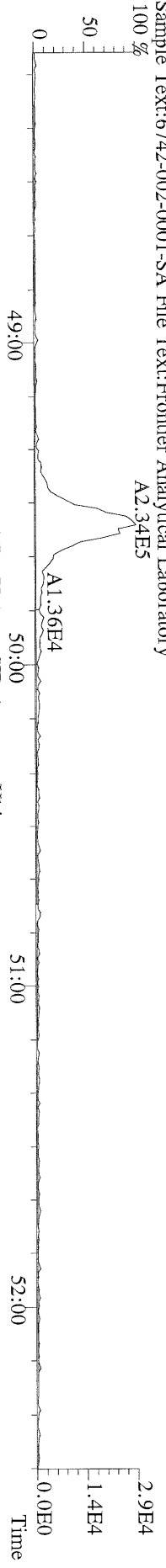
File:18MAY11M #1-541 Acq:18-MAY-2011 13:36:09 GC EI + Voltage SIR Autospec-Ultima  
430.9728 S:5 F:4 Exp:OCDD  
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



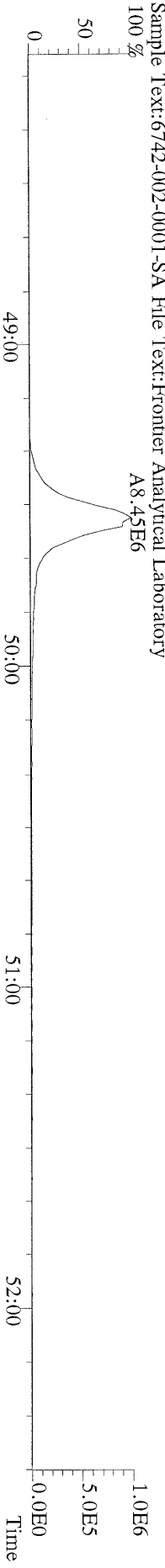
File:18MAY11M #1-347 Acq:18-MAY-2011 13:36:09 GC EI + Voltage SIR Autospec-Ultima  
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



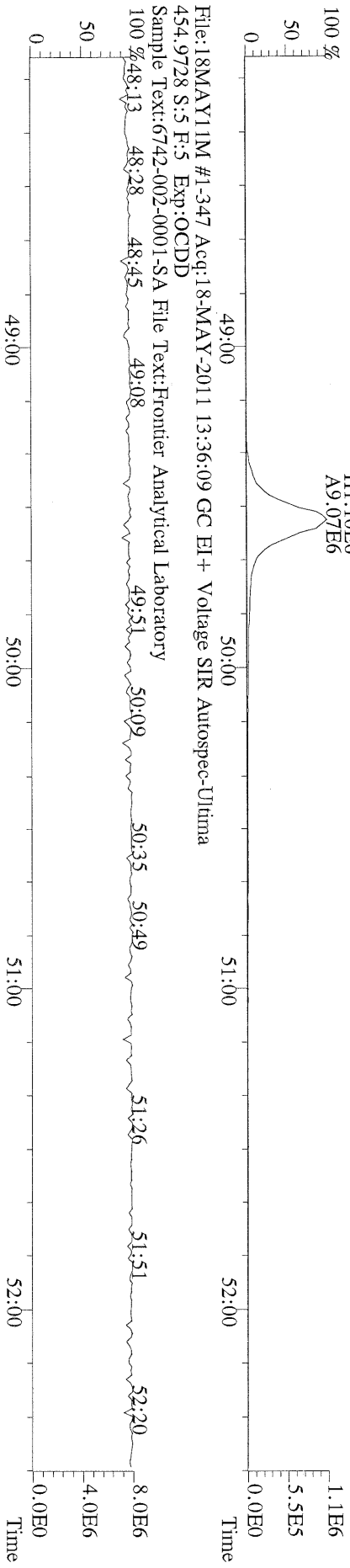
File:18MAY11M #1-347 Acq:18-MAY-2011 13:36:09 GC EI + Voltage SIR Autospec-Ultima  
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



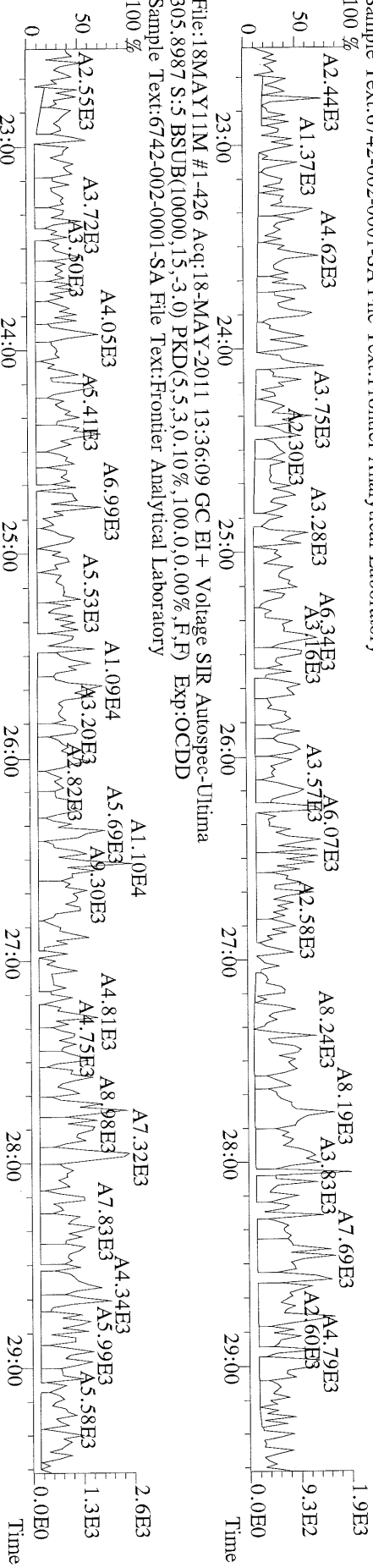
File:18MAY11M #1-347 Acq:18-MAY-2011 13:36:09 GC EI + Voltage SIR Autospec-Ultima  
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



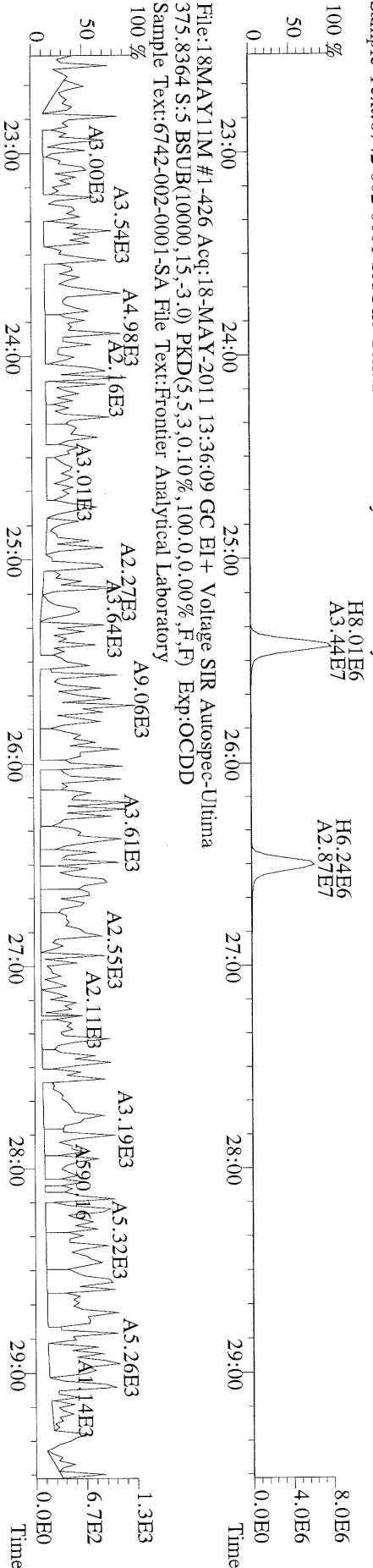
File:18MAY11M #1-347 Acq:18-MAY-2011 13:36:09 GC EI + Voltage SIR Autospec-Ultima  
471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



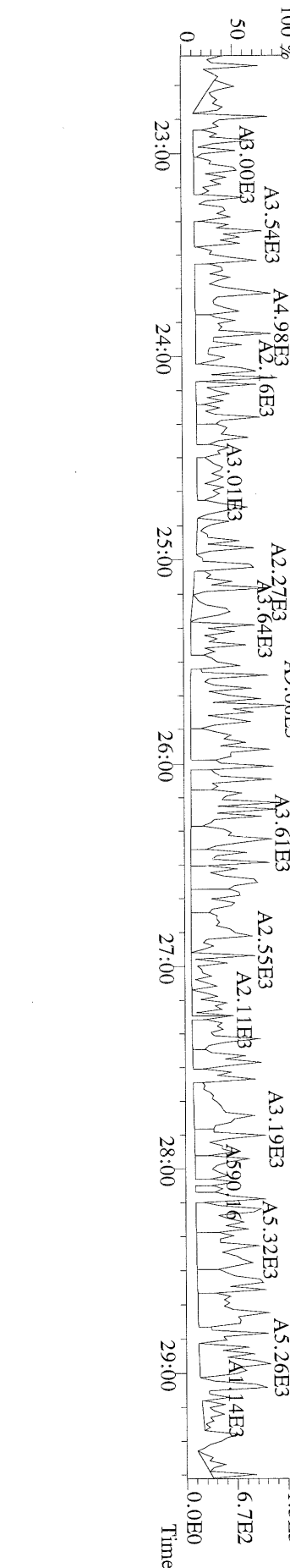
File:18MAY11M #1-426 Acq:18-MAY-2011 13:36:09 GC EI + Voltage SIR Autospec-Ultima  
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



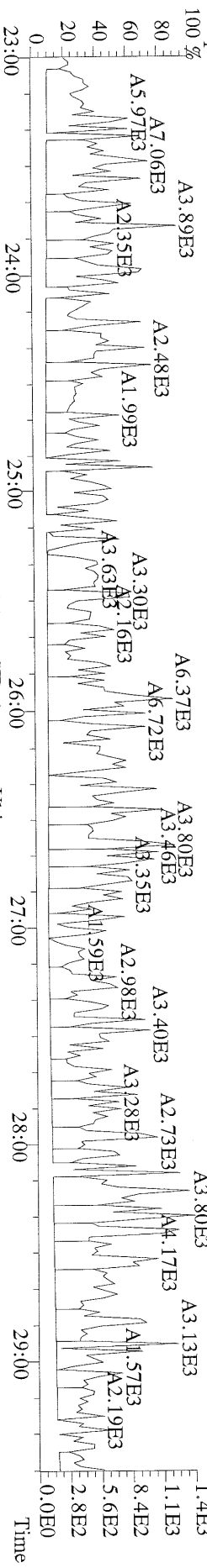
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315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



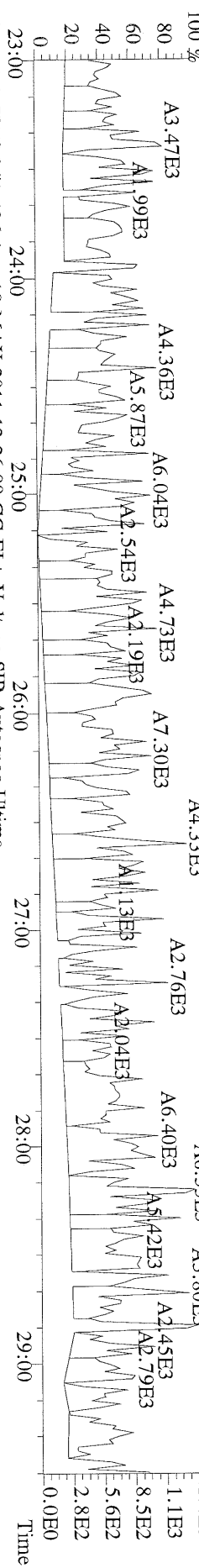
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375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



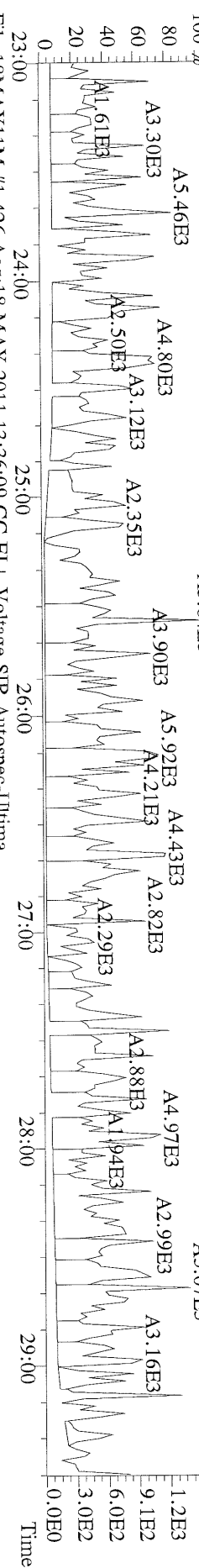
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 339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



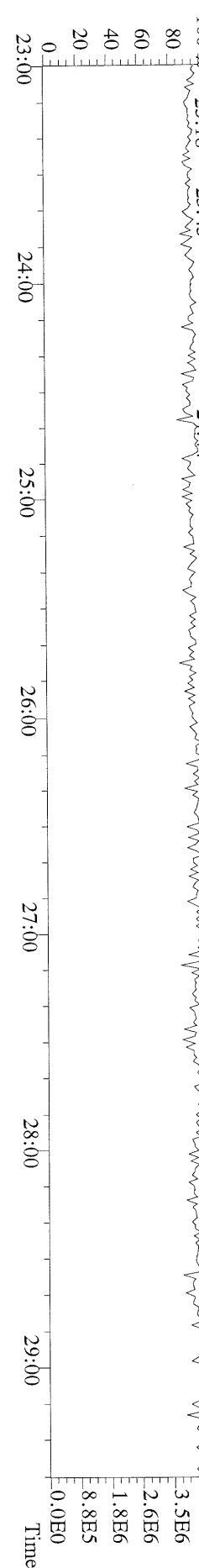
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 341.8568 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11M #1-426 Acq:18-MAY-2011 13:36:09 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory

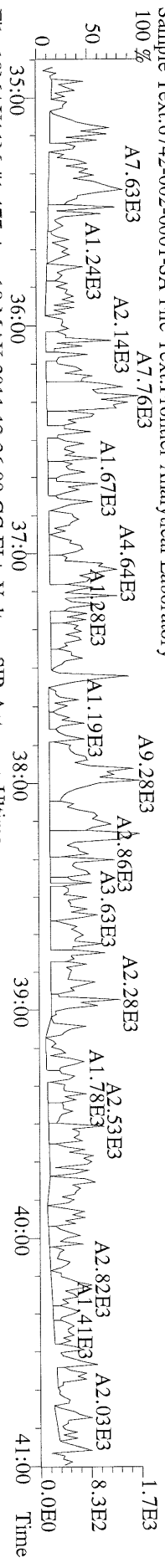


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 316.9824 S:5 Exp:OCDD  
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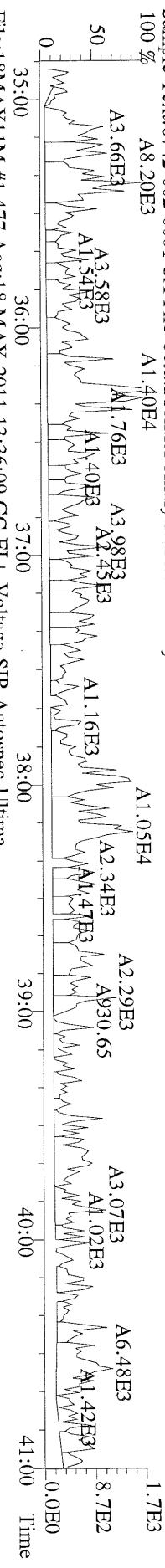




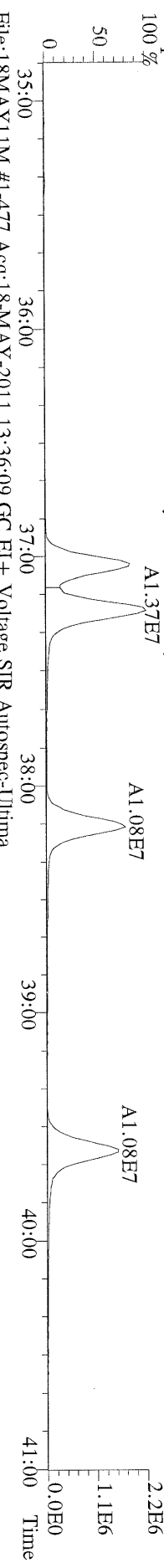
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 373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
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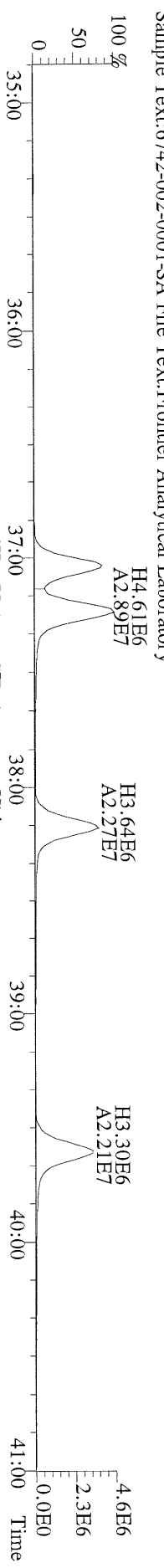
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 375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



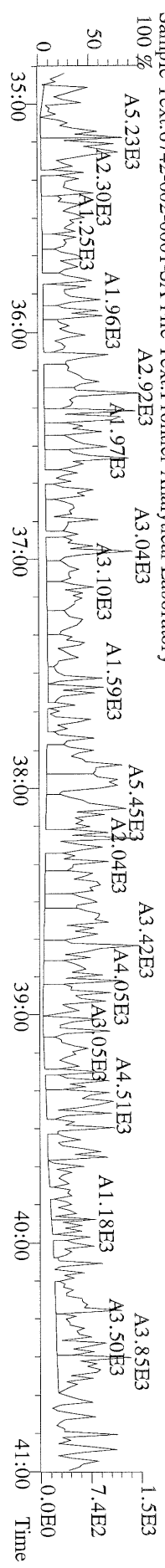
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 385.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



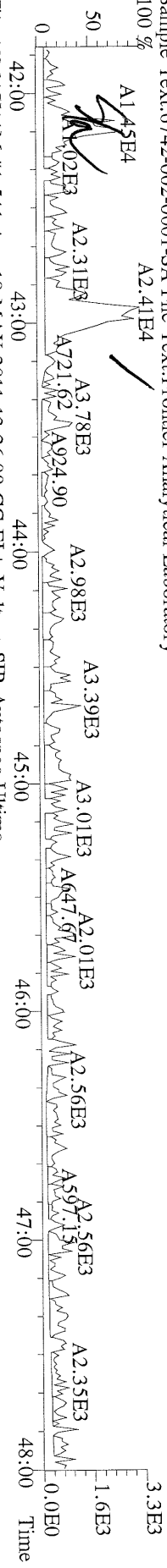
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 Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



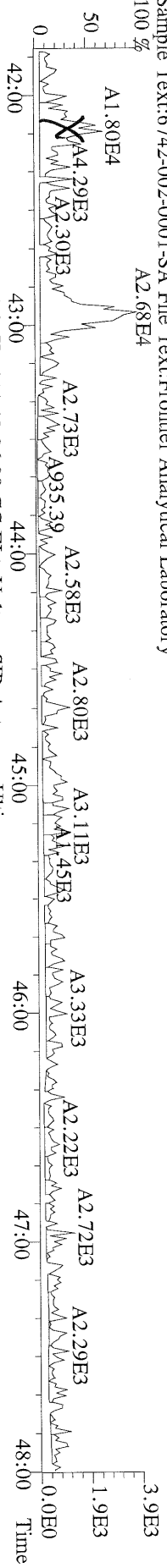
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 445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



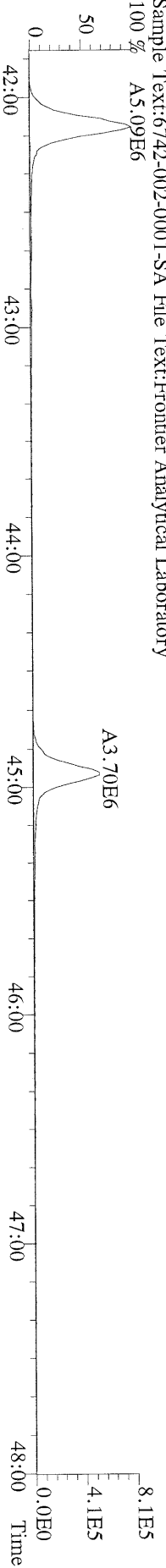
File:18MAY11M #1-541 Acq:18-MAY-2011 13:36:09 GC EI + Voltage SIR Autospec-Ultima  
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



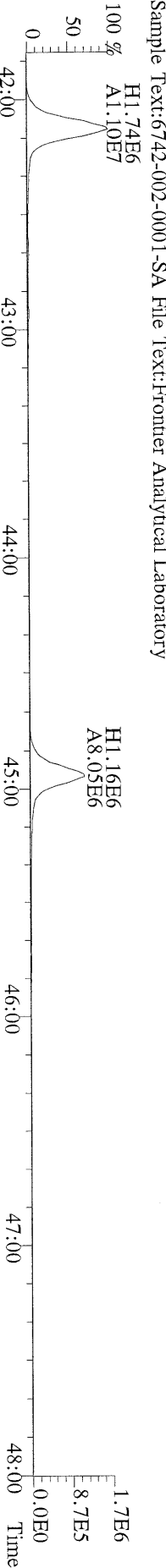
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409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



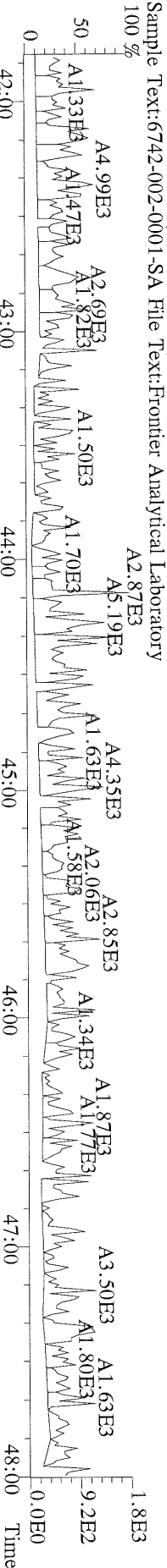
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417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11M #1-541 Acq:18-MAY-2011 13:36:09 GC EI + Voltage SIR Autospec-Ultima  
419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory

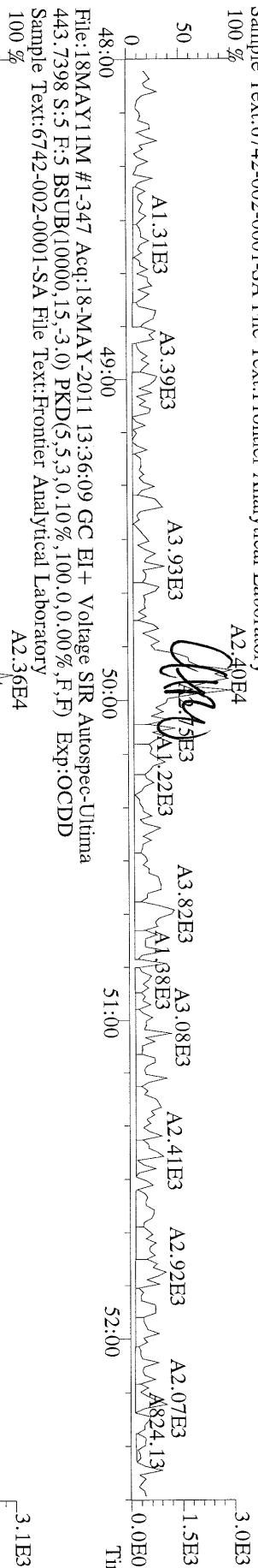


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479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory

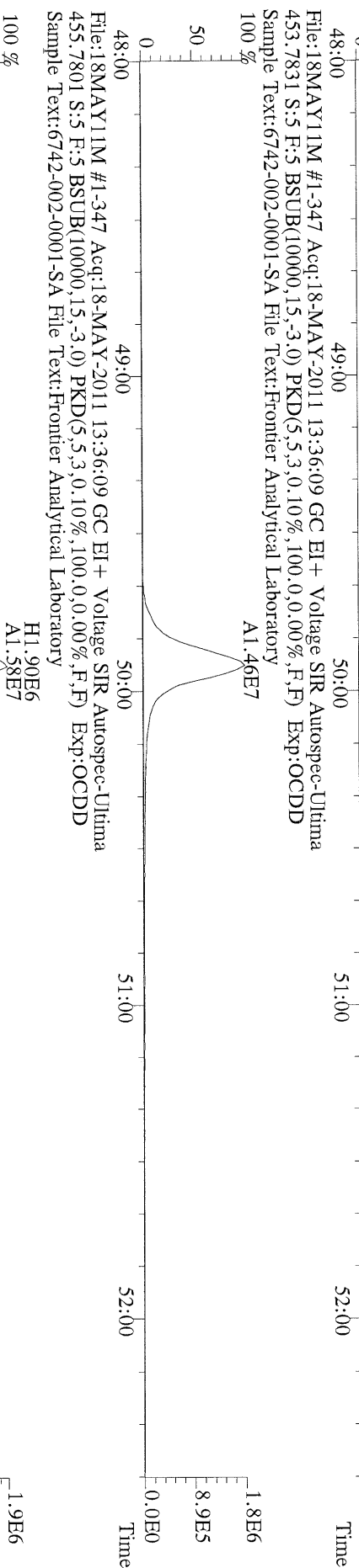




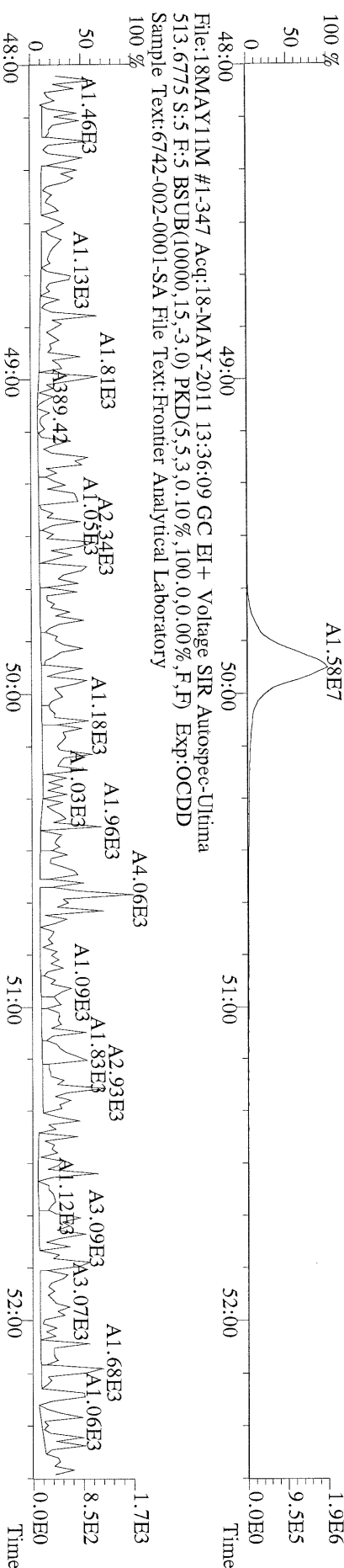
File:18MAY11M #1-347 Acq:18-MAY-2011 13:36:09 GC EI + Voltage SIR Autospec-Ultima  
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11M #1-347 Acq:18-MAY-2011 13:36:09 GC EI + Voltage SIR Autospec-Ultima  
453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory

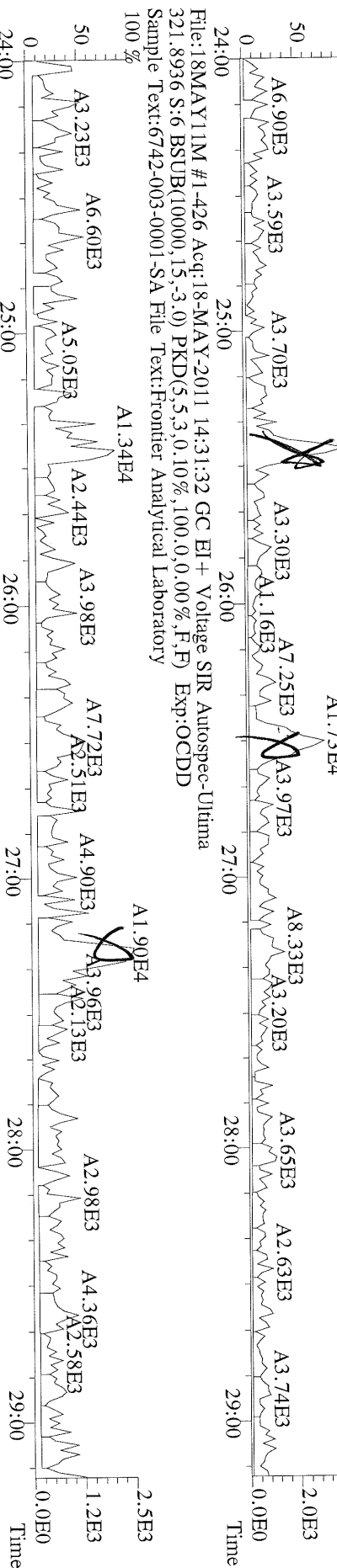


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513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-002-0001-SA File Text:Frontier Analytical Laboratory

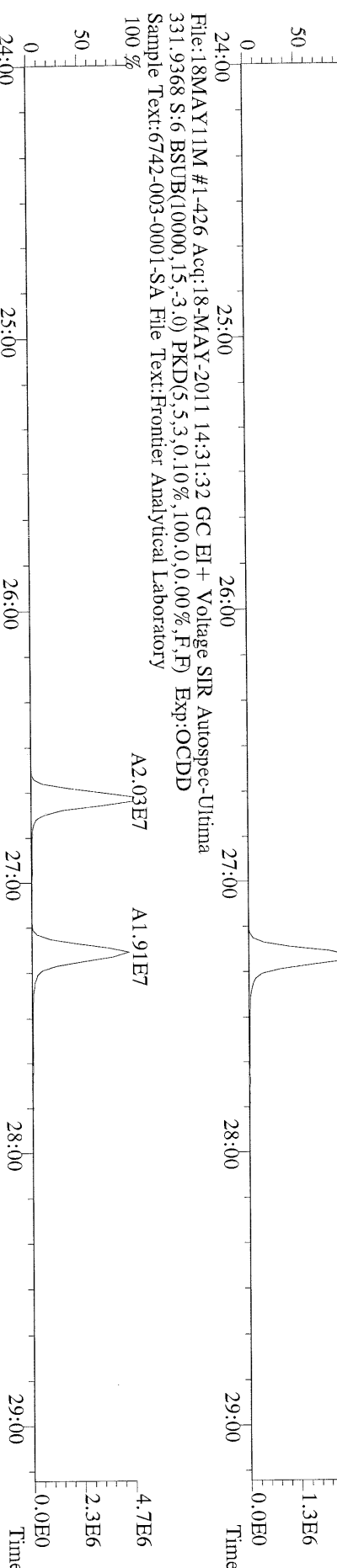




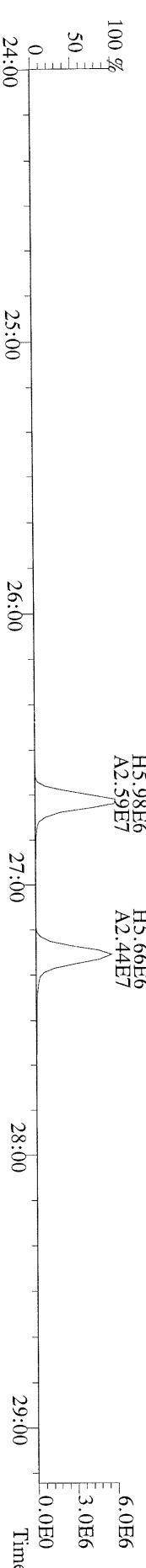
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319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



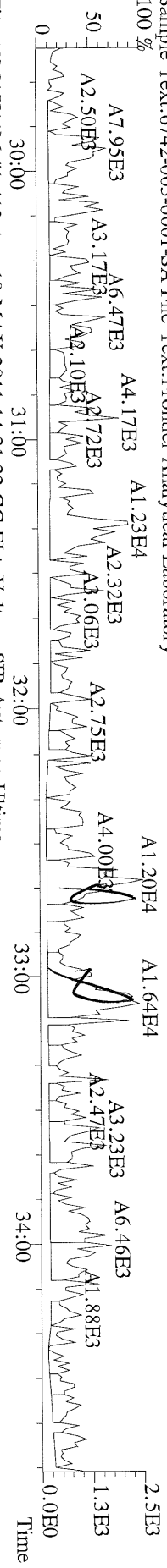
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327.8847 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



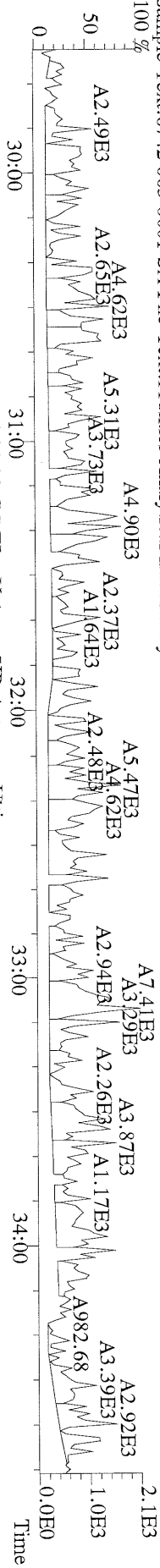
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333.9339 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



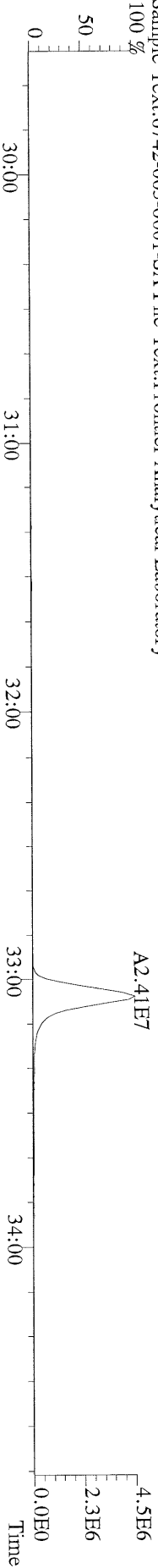
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 355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



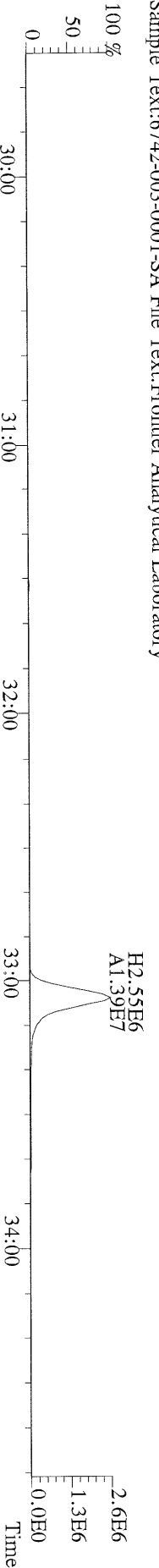
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 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



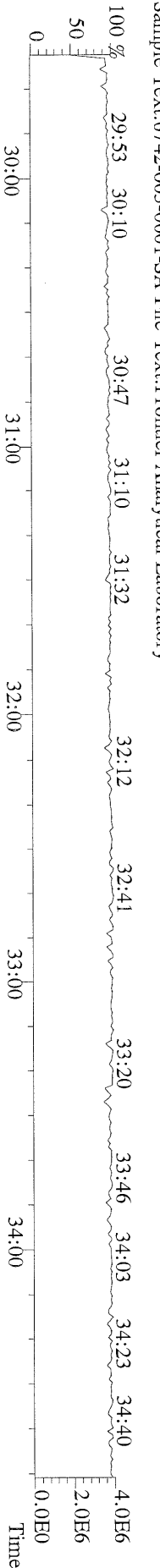
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 367.8949 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



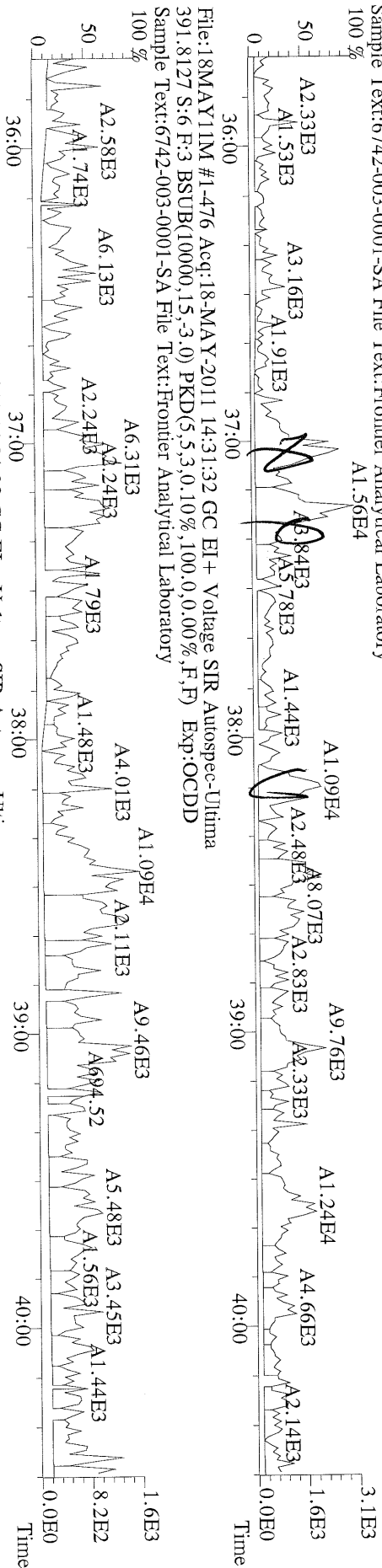
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 369.8919 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
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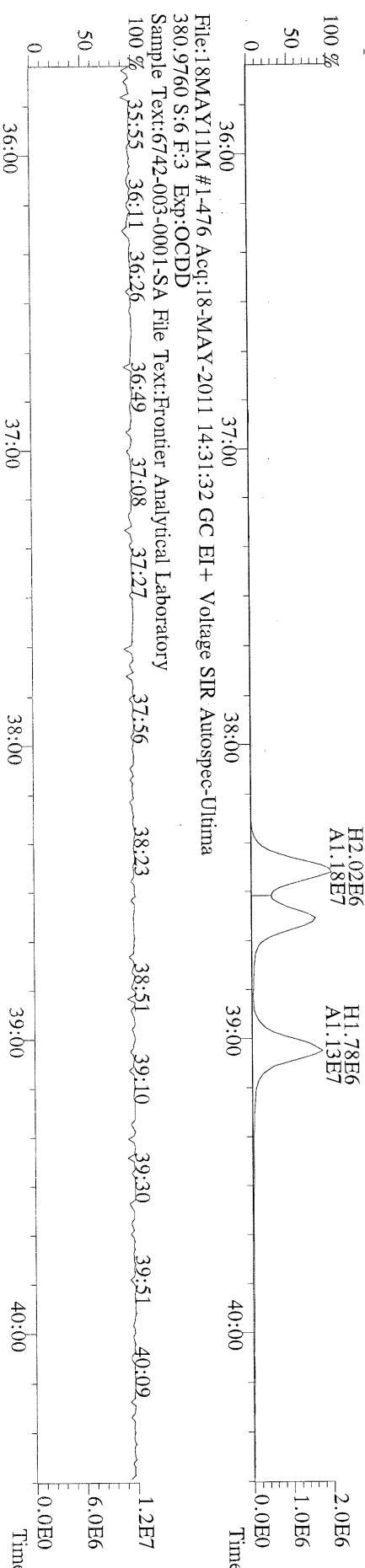
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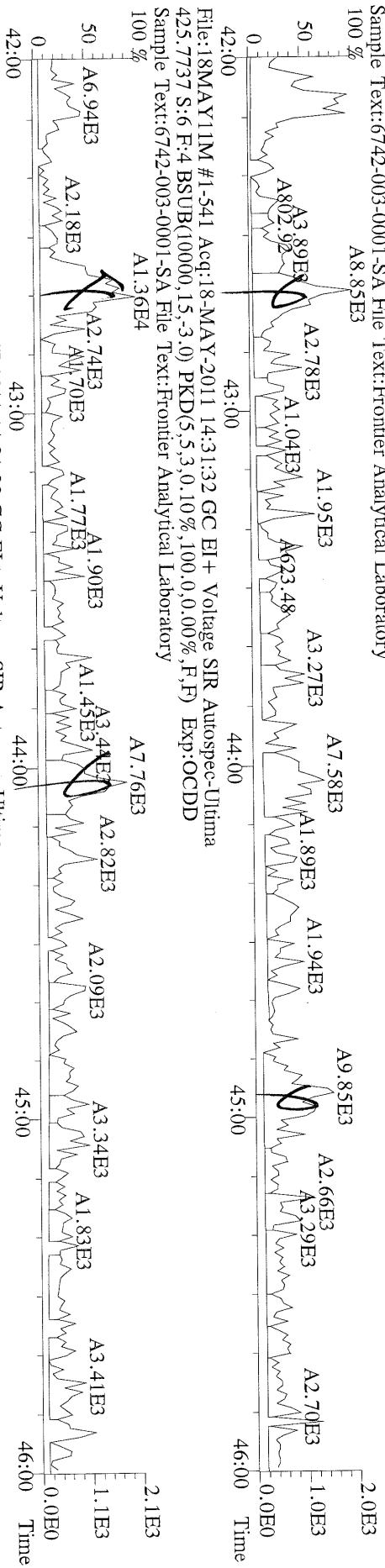
File:18MAY11M #1-476 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Ultima  
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



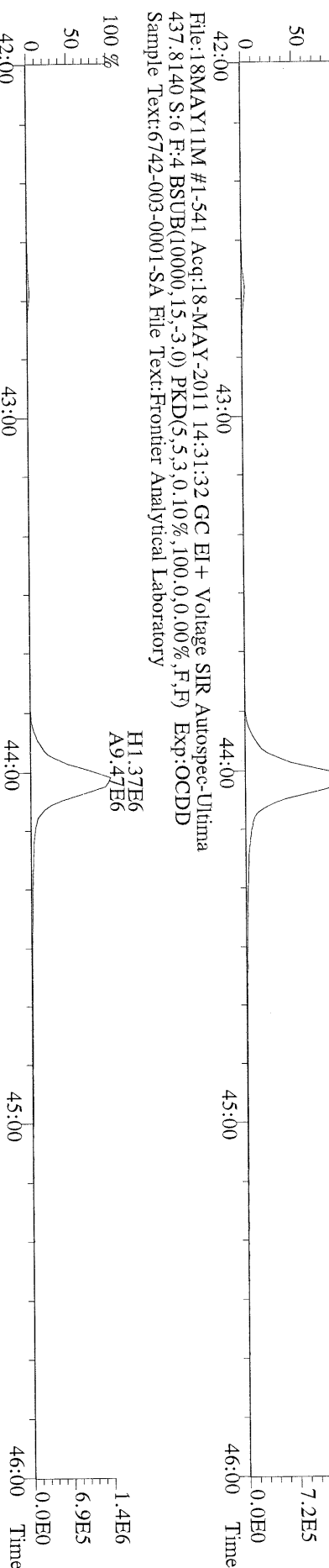
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401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



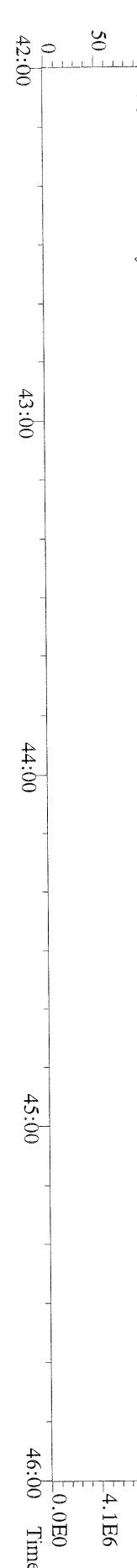
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423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



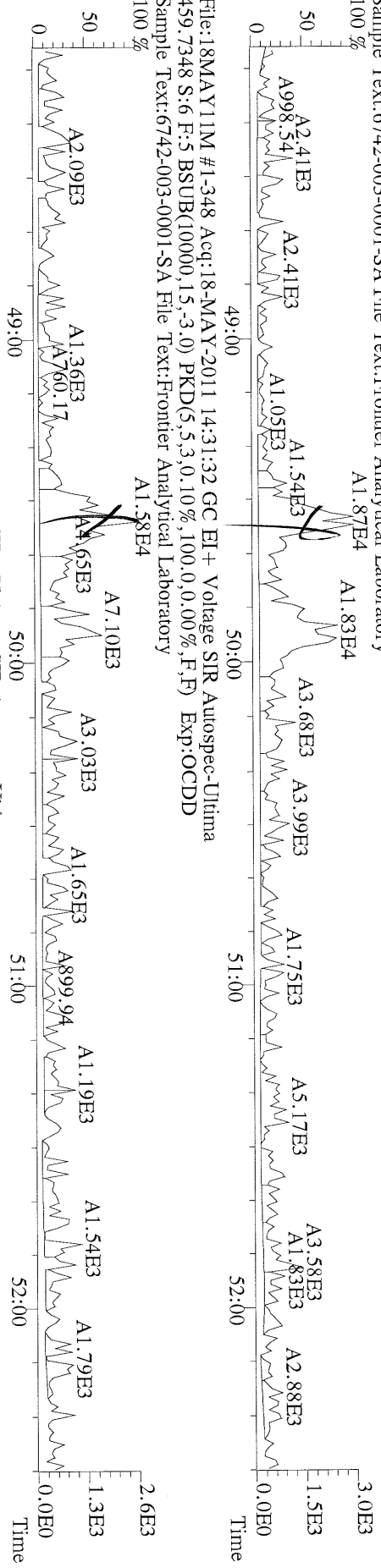
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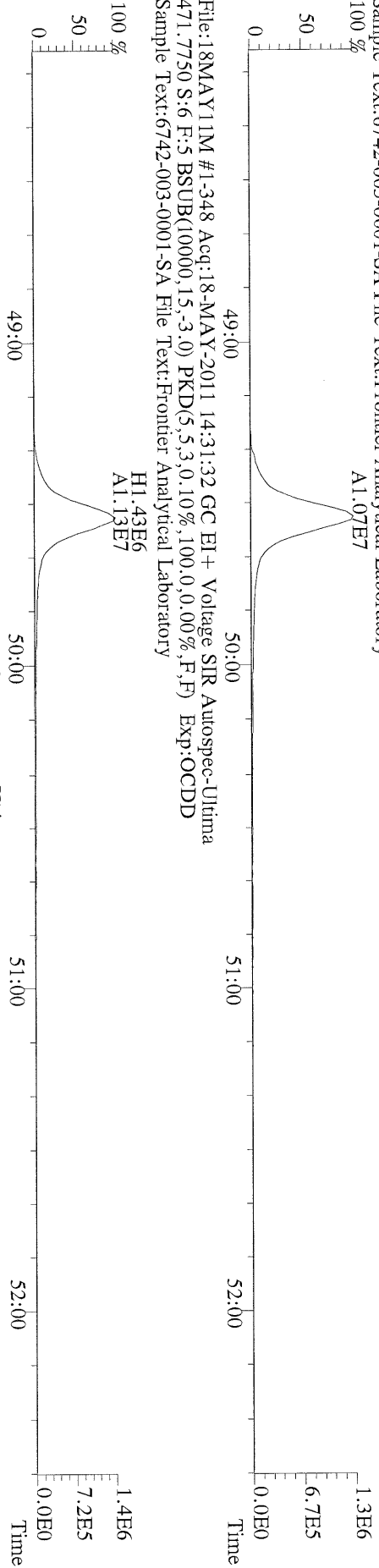
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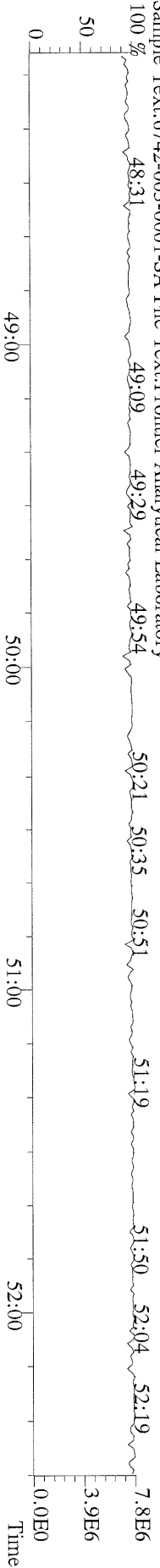
File:18MAY11M #1-348 Acq:18-MAY-2011 14:31:32 GC EI + Voltage SIR Autospec-Ultima  
 457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:OCDD  
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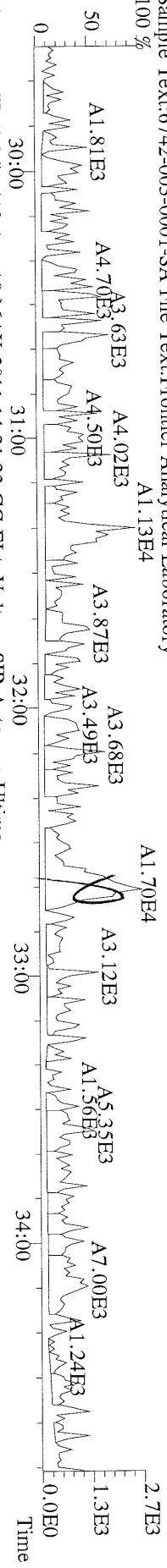
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 469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:OCDD  
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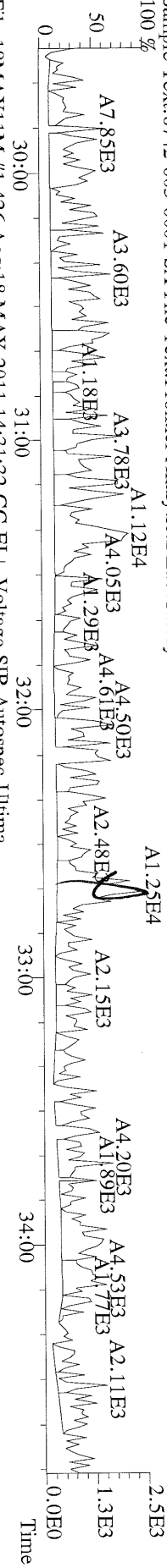
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 454.9728 S:6 F:5 Exp:OCDD  
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



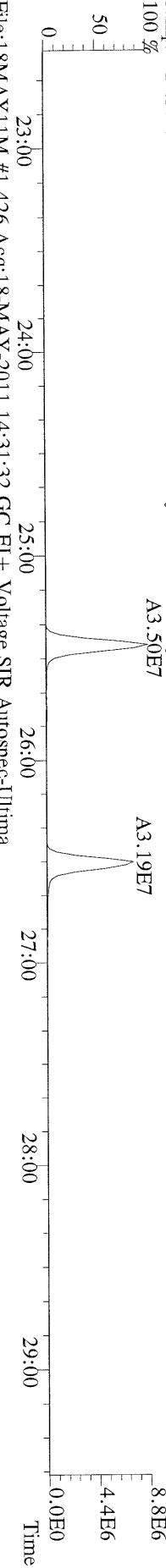
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 339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:OCDD  
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



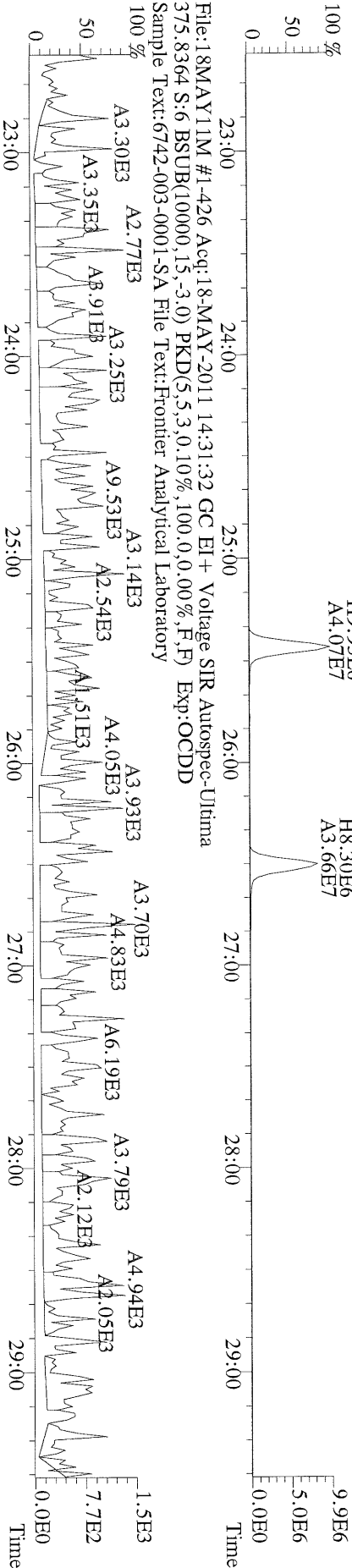
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 341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:OCDD  
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11M #1-426 Acq:18-MAY-2011 14:31:32 GC EI + Voltage SIR Autospec-Ultima  
 315.9419 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:OCDD  
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory

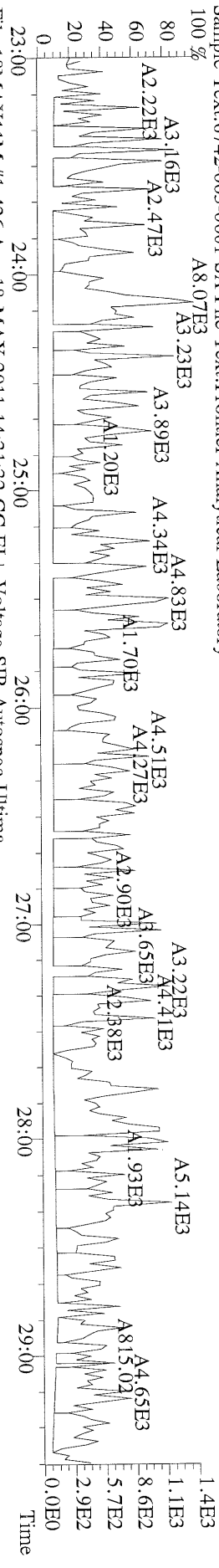


File:18MAY11M #1-426 Acq:18-MAY-2011 14:31:32 GC EI + Voltage SIR Autospec-Ultima  
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 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory

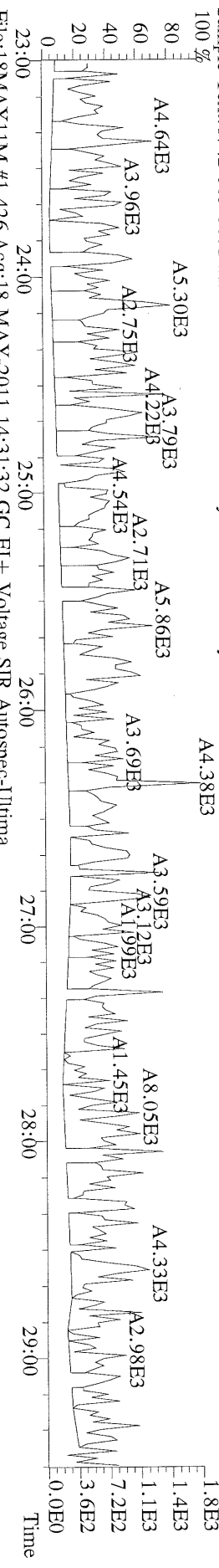




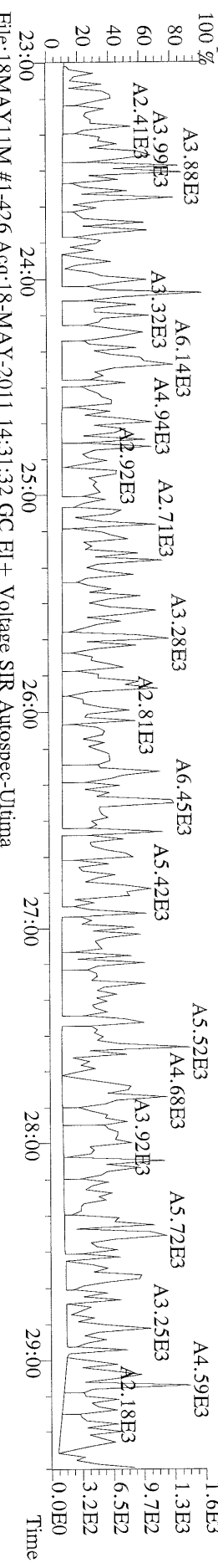
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 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



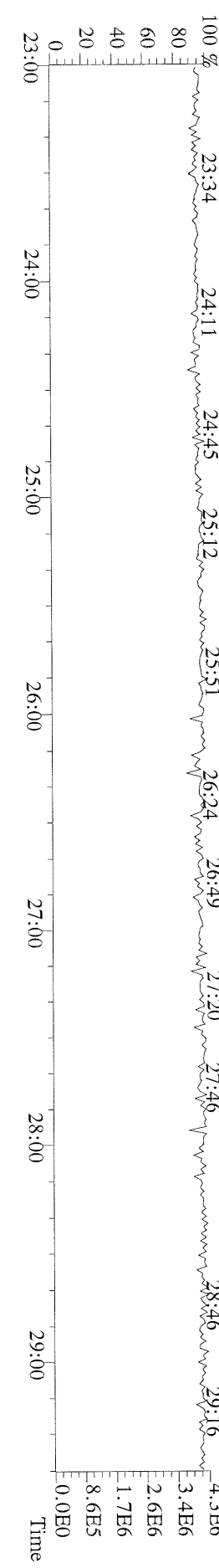
File:18MAY11M #1-426 Acq:18-MAY-2011 14:31:32 GC EI + Voltage SIR Autospec-Ultima  
 341.8568 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



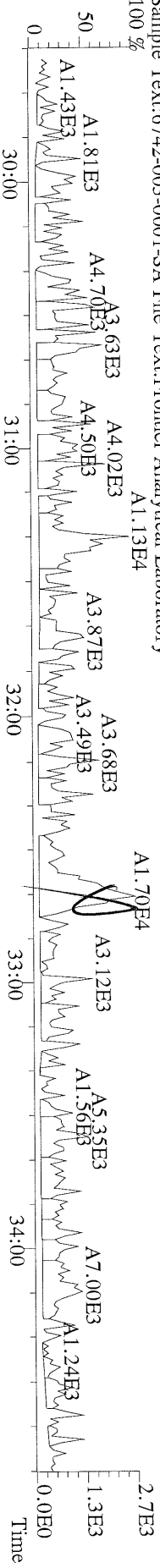
File:18MAY11M #1-426 Acq:18-MAY-2011 14:31:32 GC EI + Voltage SIR Autospec-Ultima  
 409.7974 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



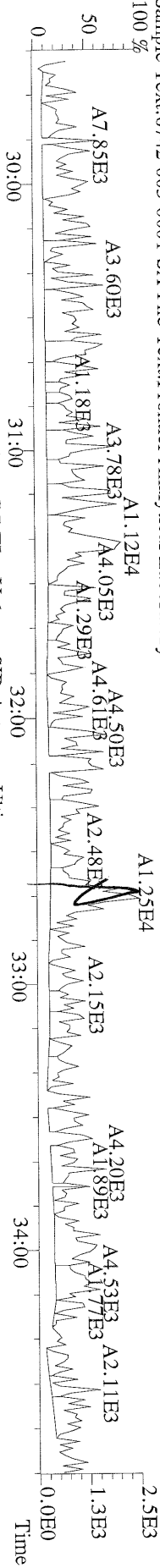
File:18MAY11M #1-426 Acq:18-MAY-2011 14:31:32 GC EI + Voltage SIR Autospec-Ultima  
 316.9824 S:6 Exp:OCDD  
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



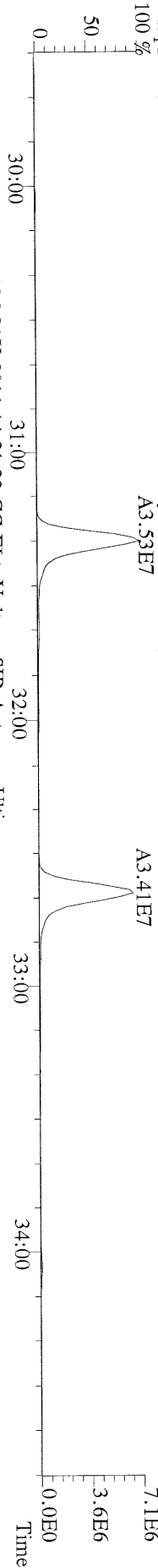
File:18MAY11M #1-412 Acq:18-MAY-2011 14:31:32 GC EI + Voltage SIR Autospec-Ultima  
339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



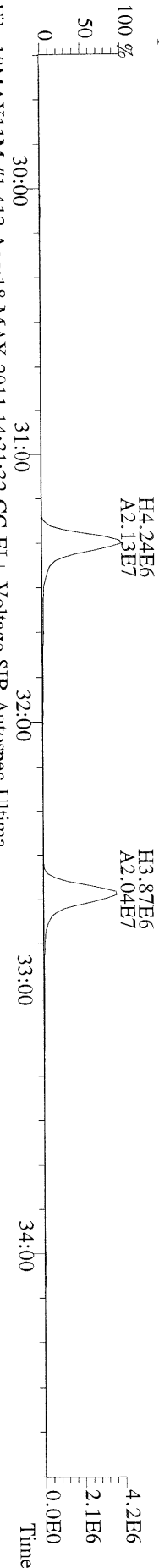
File:18MAY11M #1-412 Acq:18-MAY-2011 14:31:32 GC EI + Voltage SIR Autospec-Ultima  
341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



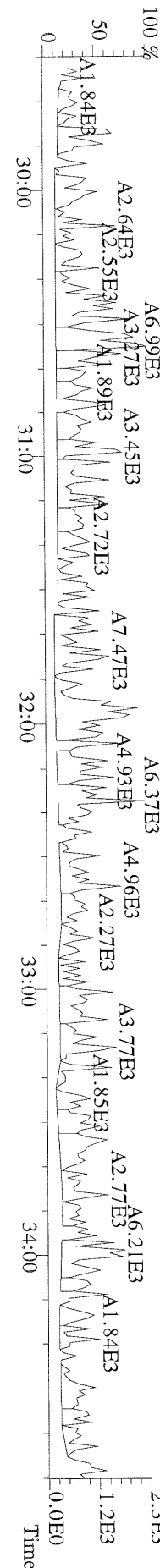
File:18MAY11M #1-412 Acq:18-MAY-2011 14:31:32 GC EI + Voltage SIR Autospec-Ultima  
351.9000 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



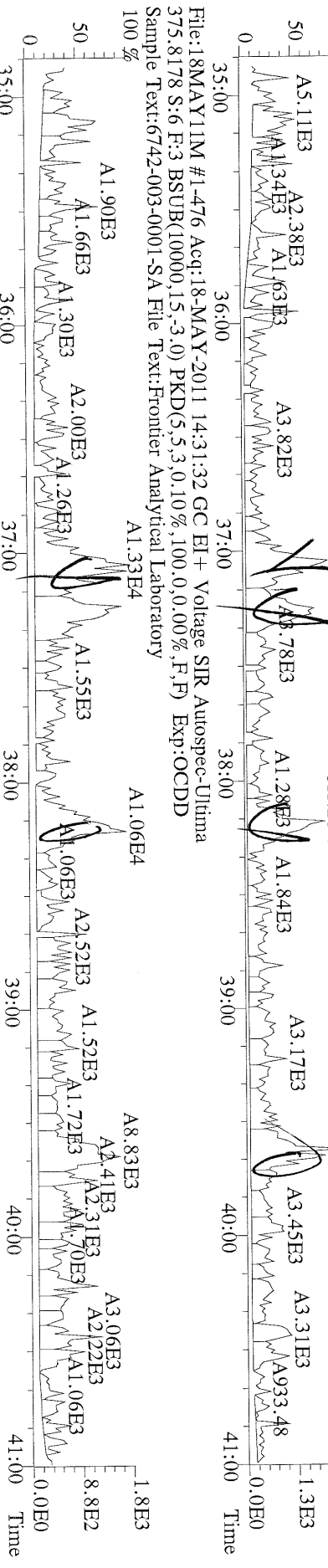
File:18MAY11M #1-412 Acq:18-MAY-2011 14:31:32 GC EI + Voltage SIR Autospec-Ultima  
353.8970 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



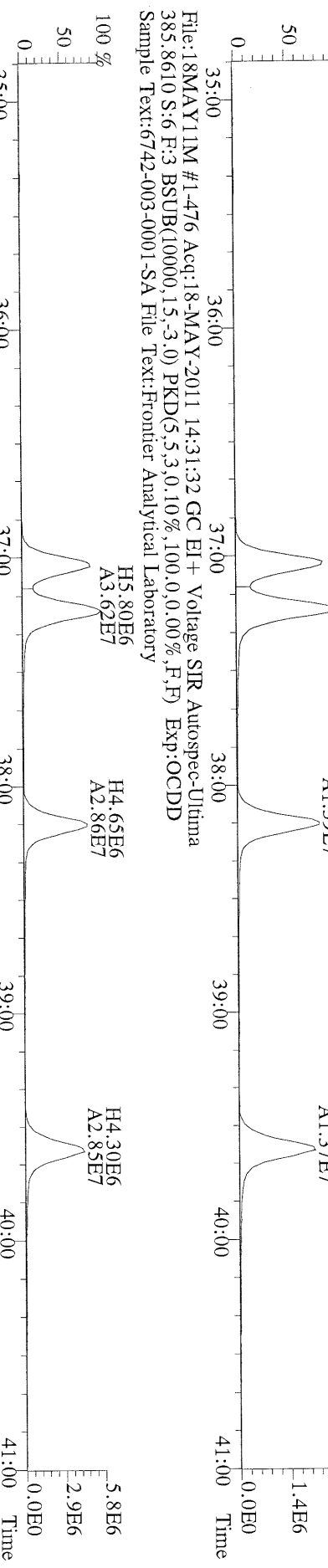
File:18MAY11M #1-412 Acq:18-MAY-2011 14:31:32 GC EI + Voltage SIR Autospec-Ultima  
409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



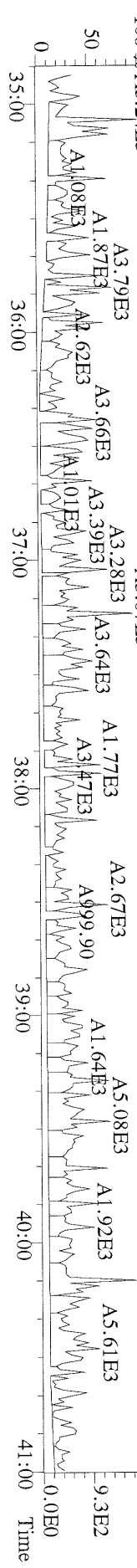
File:18MAY11M #1-476 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Ultima  
 373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



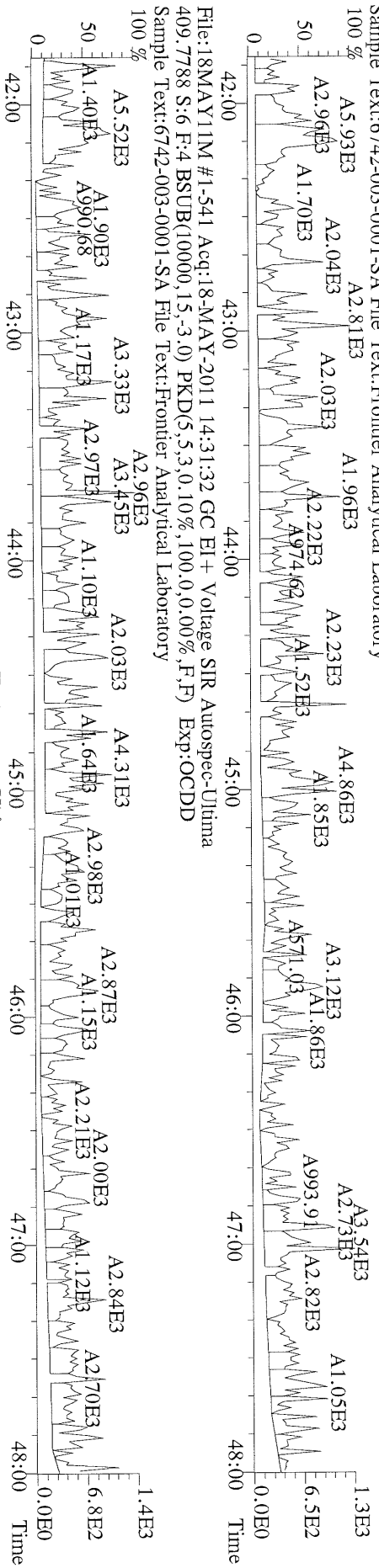
File:18MAY11M #1-476 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Ultima  
 383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



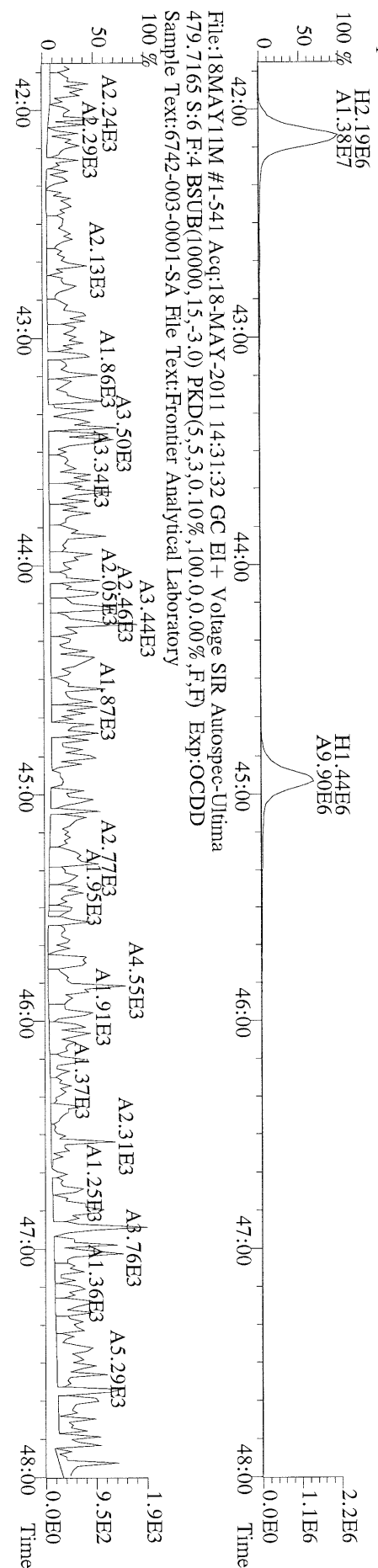
File:18MAY11M #1-476 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Ultima  
 445.7555 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
 Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



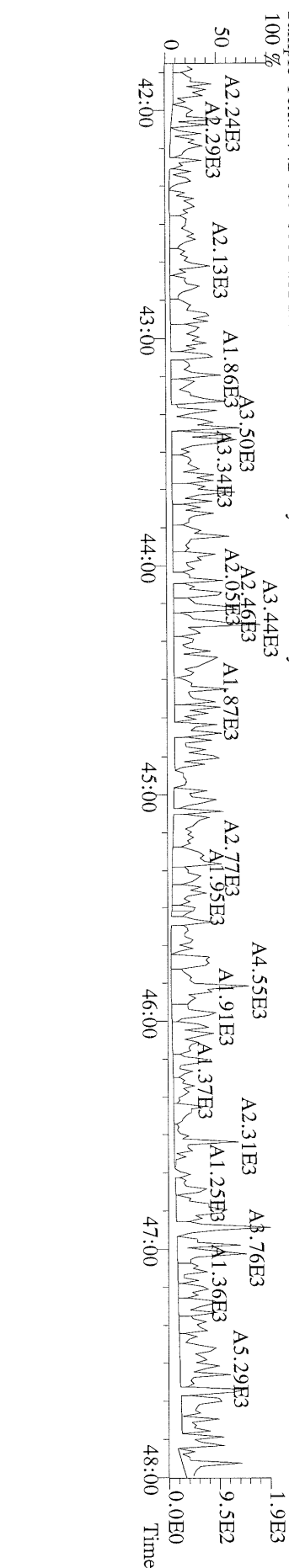
File:18MAY11M #1-541 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Utima  
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



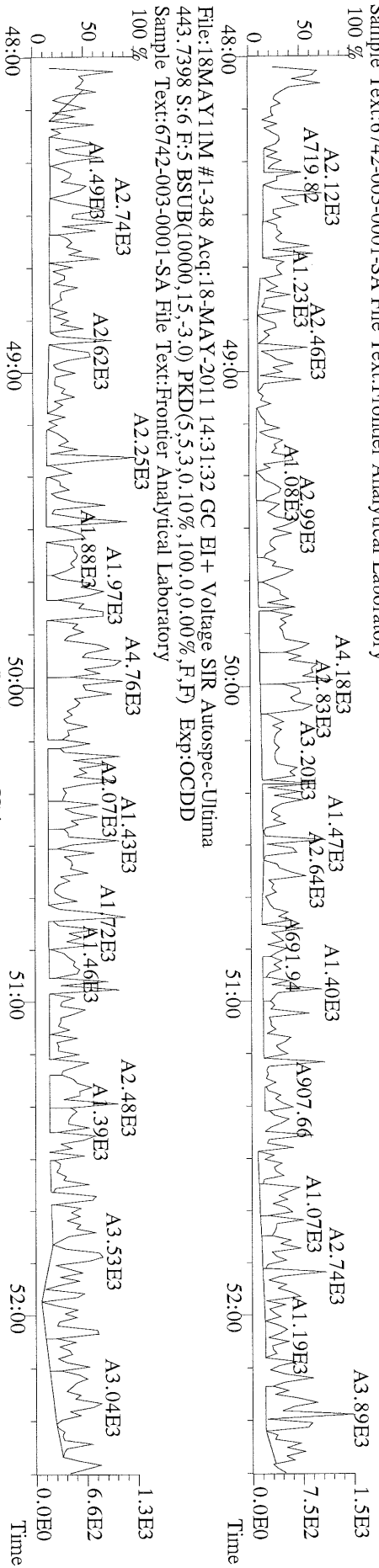
File:18MAY11M #1-541 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Utima  
417.8253 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



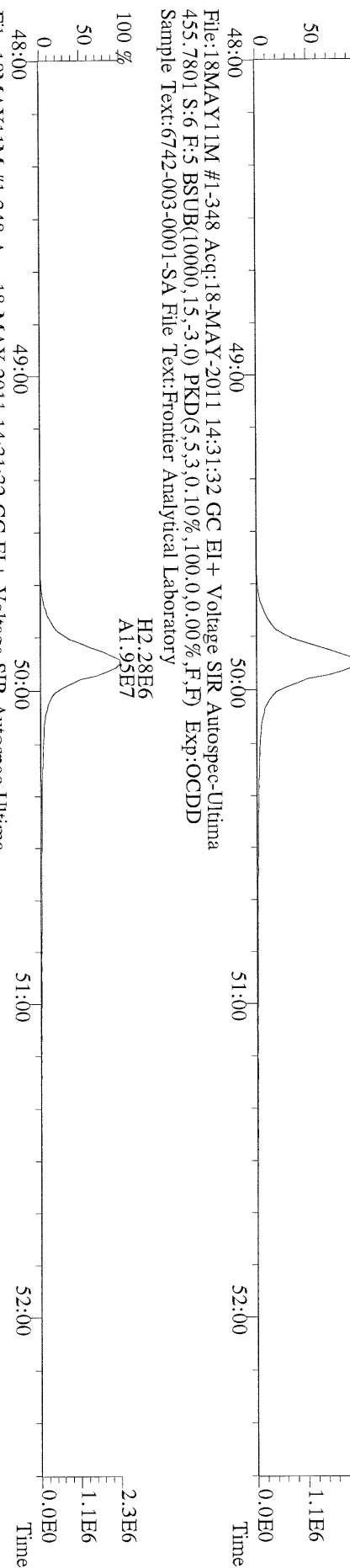
File:18MAY11M #1-541 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Utima  
479.7165 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



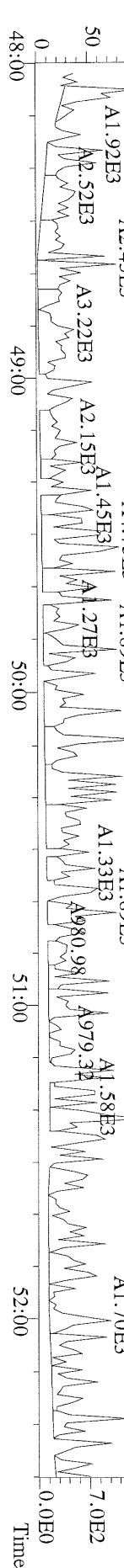
File:18MAY11M #1-348 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Ultima  
441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0.0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11M #1-348 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Ultima  
453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0.0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11M #1-348 Acq:18-MAY-2011 14:31:32 GC EI+ Voltage SIR Autospec-Ultima  
513.6775 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0.0,0.00%,F,F) Exp:OCDD  
Sample Text:6742-003-0001-SA File Text:Frontier Analytical Laboratory















Run #3 Filename 07MAR11M  
Client ID: ST030711M4

S: 4 Acquired: 7-MAR-11 14:44:29 Cal: PCDDFAL3-3-7-11  
Analyte: FAL ID: 1613 Cs4 100511K

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	40.00	1.84e+07	0.80 y	27:27	-	1.14 y
2	Unk	1,2,3,7,8-PeCDD	200.00	8.36e+07	1.43 y	33:16	-	1.06 y
3	Unk	1,2,3,4,7,8-HxCDD	200.00	9.27e+07	1.28 y	38:40	-	1.51 y
4	Unk	1,2,3,6,7,8-HxCDD	200.00	7.25e+07	1.27 y	38:49	-	1.47 y
5	Unk	1,2,3,7,8,9-HxCDD	200.00	8.35e+07	1.27 y	39:16	-	1.51 y
6	Unk	1,2,3,4,6,7,8-HpCDD	200.00	5.64e+07	0.89 y	44:15	-	1.28 y
7	Unk	OCDD	400.00	1.00e+08	0.91 y	49:51	-	1.47 y
8	Unk	2,3,7,8-TCDF	40.00	3.24e+07	0.67 y	26:40	-	1.13 y
9	Unk	1,2,3,7,8-PeCDF	200.00	1.15e+08	1.67 y	31:33	-	0.943 y
10	Unk	2,3,4,7,8-PeCDF	200.00	1.10e+08	1.63 y	32:52	-	0.948 y
11	Unk	1,2,3,4,7,8-HxCDF	200.00	9.76e+07	1.20 y	37:15	-	1.06 y
12	Unk	1,2,3,6,7,8-HxCDF	200.00	1.09e+08	1.20 y	37:28	-	0.943 y
13	Unk	2,3,4,6,7,8-HxCDF	200.00	1.01e+08	1.20 y	38:24	-	1.07 y
14	Unk	1,2,3,7,8,9-HxCDF	200.00	1.22e+08	1.22 y	39:50	-	1.16 y
15	Unk	1,2,3,4,6,7,8-HpCDF	200.00	8.08e+07	1.03 y	42:21	-	1.55 y
16	Unk	1,2,3,4,7,8,9-HpCDF	200.00	6.31e+07	1.04 y	45:11	-	1.53 y
17	Unk	OCDF	400.00	1.18e+08	0.93 y	50:13	-	0.902 y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	4.05e+07	0.70 y	27:25	-	1.07 y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	3.94e+07	1.69 y	33:16	-	1.04 y
20	IS	13C-1,2,3,4,7,8-HxCDD	100.00	3.06e+07	1.27 y	38:37	-	1.22 y
21	IS	13C-1,2,3,6,7,8-HxCDD	100.00	2.47e+07	1.27 y	38:48	-	0.983 y
22	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.20e+07	1.07 y	44:14	-	0.877 y
23	IS	13C-OCDD	200.00	3.41e+07	1.00 y	49:49	-	0.679 y
24	IS	13C-2,3,7,8-TCDF	100.00	7.18e+07	0.87 y	26:39	-	1.02 y
25	IS	13C-1,2,3,7,8-PeCDF	100.00	6.11e+07	1.64 y	31:31	-	0.872 y
26	IS	13C-2,3,4,7,8-PeCDF	100.00	5.79e+07	1.63 y	32:51	-	0.826 y
27	IS	13C-1,2,3,4,7,8-HxCDF	100.00	4.62e+07	0.44 y	37:14	-	1.84 y
28	IS	13C-1,2,3,6,7,8-HxCDF	100.00	5.78e+07	0.44 y	37:26	-	2.31 y
29	IS	13C-2,3,4,6,7,8-HxCDF	100.00	4.75e+07	0.44 y	38:23	-	1.89 y
30	IS	13C-1,2,3,7,8,9-HxCDF	100.00	5.27e+07	0.44 y	39:49	-	2.10 y
31	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.60e+07	0.47 y	42:20	-	1.04 y
32	IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	2.07e+07	0.47 y	45:09	-	0.823 y
33	IS	13C-OCDF	200.00	6.54e+07	0.93 y	50:12	-	1.30 y
34	C/Up	37Cl-2,3,7,8-TCDD	40.00	1.14e+07		27:27	-	0.750 y
35	RS	13C-1,2,3,4-TCDD	100.00	3.80e+07	0.72 y	26:50	3.80e+05	- n
36	RS	13C-1,2,3,4-TCDF	100.00	7.01e+07	0.85 y	25:34	7.01e+05	- n
37	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	2.51e+07	1.26 y	39:14	2.51e+05	- n
38	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	1.14 y
39	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.06 y
40	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.50 y
41	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.28 y
42	Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.13 y
43	Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.945 y
44	Tot	Total Penta-Furans	0.00	-	- n	-	-	0.945 y
45	Tot	Total Hexa-Furans	0.00	-	- n	-	-	1.05 y
46	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.54 y

Analyst: J Date: 3/8/11





## USEPA - ITD

## FORM 3B

## PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/7/11

Instrument ID: FAL3 GC Column ID: DB5

CS0 Data Filename: 07MAR11M S1 CS4 Data Filename: 07MAR11M S5

CS1 Data Filename: 07MAR11M S3 CS4 Data Filename: 07MAR11M S6

CS2 Data Filename: 07MAR11M S4 CS5 Data Filename: 07MAR11M S7

Labeled Compounds	RELATIVE RESPONSE (RR)						MEAN	Cv
	CS1	CS2	CS3	CS4	CS5	CS6	RR	(%RSD)
13C-2,3,7,8-TCDD	1.00	1.09	1.07	1.00	1.01	1.01	1.03	3.69
13C-1,2,3,7,8-PeCDD	1.03	1.19	1.04	0.94	0.93	0.94	1.01	9.97
13C-1,2,3,4,7,8-HxCDD	1.20	1.13	1.22	1.18	1.22	1.19	1.19	2.78
13C-1,2,3,6,7,8-HxCDD	0.92	0.89	0.98	0.95	0.92	0.95	0.94	3.41
13C-1,2,3,4,6,7,8-HpCDD	0.85	0.84	0.88	0.81	0.80	0.79	0.83	4.23
13C-OCDD	0.62	0.67	0.68	0.58	0.55	0.55	0.61	9.50
13C-2,3,7,8-TCDF	0.96	1.03	1.02	0.96	0.96	0.94	0.98	3.84
13C-1,2,3,7,8-PeCDF	0.80	0.97	0.87	0.79	0.77	0.78	0.83	9.66
13C-2,3,4,7,8-PeCDF	0.79	0.95	0.83	0.75	0.77	0.74	0.80	9.70
13C-1,2,3,4,7,8-HxCDF	1.80	1.56	1.84	1.92	1.94	1.97	1.84	8.15
13C-1,2,3,6,7,8-HxCDF	2.28	2.03	2.31	2.33	2.38	2.41	2.29	5.90
13C-2,3,4,6,7,8-HxCDF	1.86	1.66	1.89	1.90	1.92	1.94	1.86	5.48
13C-1,2,3,7,8,9-HxCDF	1.96	1.94	2.10	1.96	1.96	1.98	1.98	3.04
13C-1,2,3,4,6,7,8-HpCDF	0.99	0.95	1.04	0.97	0.98	0.99	0.99	2.88
13C-1,2,3,4,7,8,9-HpCDF	0.77	0.80	0.82	0.74	0.73	0.73	0.77	5.17
13C-OCDF	1.13	1.30	1.30	1.12	1.06	1.07	1.17	9.46
CLEANUP STANDARD								
37Cl-2,3,7,8-TCDD	0.68	0.81	0.75	0.68	0.74	0.71	0.73	6.57

Analyst: 6Date: 3/8/11

## PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/7/11

Instrument ID: FAL3

GC Column ID: DB5

CS0 Data Filename: 07MAR11M S1 CS3 Data Filename: 07MAR11M S5

CS1 Data Filename: 07MAR11M S3 CS4 Data Filename: 07MAR11M S6

CS2 Data Filename: 07MAR11M S4 CS5 Data Filename: 07MAR11M S7

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUNDANCE RATIOS						QC LIMITS
		CS1	CS2	CS3	CS4	CS5	CS6	
2,3,7,8-TCDD	M/M+2	0.83	0.81	0.80	0.83	0.79	0.86	0.65-0.89
1,2,3,7,8-PeCDD	M+2/M+4	1.44	1.44	1.43	1.37	1.41	1.37	1.32-1.78
1,2,3,4,7,8-HxCDD	M+2/M+4	1.27	1.27	1.28	1.27	1.30	1.25	1.05-1.43
1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.27	1.27	1.27	1.27	1.31	1.05-1.43
1,2,3,7,8,9-HxCDD	M+2/M+4	1.24	1.27	1.27	1.26	1.26	1.25	1.05-1.43
1,2,3,4,6,7,8-HpCDD	M+2/M+4	0.90	0.90	0.89	0.89	0.89	0.90	0.88-1.20
OCDD	M+2/M+4	0.94	0.94	0.91	0.95	0.94	1.00	0.76-1.02
2,3,7,8-TCDF	M/M+2	0.67	0.67	0.67	0.66	0.69	0.68	0.65-0.89
1,2,3,7,8-PeCDF	M+2/M+4	1.66	1.65	1.67	1.69	1.64	1.61	1.32-1.78
2,3,4,7,8-PeCDF	M+2/M+4	1.65	1.64	1.63	1.64	1.64	1.61	1.32-1.78
1,2,3,4,7,8-HxCDF	M+2/M+4	1.20	1.20	1.20	1.19	1.23	1.22	1.05-1.43
1,2,3,6,7,8-HxCDF	M+2/M+4	1.22	1.20	1.20	1.21	1.22	1.18	1.05-1.43
2,3,4,6,7,8-HxCDF	M+2/M+4	1.20	1.19	1.20	1.19	1.22	1.20	1.05-1.43
1,2,3,7,8,9-HxCDF	M+2/M+4	1.21	1.21	1.22	1.21	1.19	1.18	1.05-1.43
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.04	1.04	1.03	1.04	1.02	1.02	0.88-1.20
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.05	1.04	1.04	1.02	1.03	1.03	0.88-1.20
OCDF	M+2/M+4	0.91	0.92	0.93	0.94	0.91	0.90	0.76-1.02

Analyst: 8Date: 3/8/11







## USEPA - ITD

## FORM 4B

## PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 3/7/11

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 07MAR11M Sam:1

Analysis Date: 7-MAR-11 11:58:32

LABELLED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
13C-2,3,7,8-TCDD	M/M+2	0.67	0.65-0.89	y	97.6	82.0 - 121
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.70	1.32-1.78	y	101	62.0 - 160
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	101	85.0 - 117
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	98.3	85.0 - 118
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	103	72.0 - 138
13C-OCDD	M+2/M+4	1.00	0.76-1.02	y	203	96.0 - 415
13C-2,3,7,8-TCDF	M/M+2	0.86	0.65-0.89	y	98.0	71.0 - 140
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.64	1.32-1.78	y	96.5	76.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.65	1.32-1.78	y	97.7	77.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.44	0.43-0.59	y	97.8	76.0 - 131
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.44	0.43-0.59	y	99.5	70.0 - 143
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.44	0.43-0.59	y	99.9	73.0 - 137
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.44	0.43-0.59	y	98.7	74.0 - 135
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.48	0.37-0.51	y	100	78.0 - 129
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.47	0.37-0.51	y	100	77.0 - 129
13C-OCDF	M+2/M+4	0.91	0.76-1.02	y	194	96.0 - 415
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					9.35	7.80 - 12.8

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) No ion abundance ratio; report concentration found.

Analyst: JDate: 3/8/11



## USEPA - ITD

## FORM 6A

## PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 3/7/11

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 7-MAR-11 11:58:32 CS3 or VER Data Filename: 07MAR11M Sam:1

NATIVE ANALYTES	RETENTION TIME	RRT	RRT
	REFERENCE		QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.001	0.999-1.002
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.001	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.001	0.999-1.002
LABELED COMPOUNDS			
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.023	0.989-1.052
13C-2,3,7,8-TCDD		1.022	0.976-1.043
13C-2,3,7,8-TCDF		0.994	0.923-1.103
13C-1,2,3,7,8-PeCDD		1.239	1.000-1.567
13C-1,2,3,7,8-PeCDF		1.174	0.923-1.203
13C-2,3,4,7,8-PeCDF		1.224	0.923-1.303

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Analyst: Date: 3/8/11

## USEPA - ITD

FORM 6B

## PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 3/7/11

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 7-MAR-11 11:58:32 CS3 or VER Data Filename: 07MAR11M Sam:1

NATIVE ANALYTES	RETENTION TIME		RRT	RRT
	REFERENCE			QC LIMITS (1)
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD		1.001	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD		1.001	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,6,7,8-HxCDD		1.012	1.000-1.019
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF		1.000	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF		1.000	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF		1.000	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF		1.001	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD		1.000	0.999-1.001
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF		1.000	0.999-1.001
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF		1.001	0.999-1.001
OCDD	13C-OCDD		1.001	0.999-1.001
OCDF	13C-OCDF		1.000	0.999-1.001
LABELED COMPOUNDS				
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD		0.984	0.977-1.000
13C-1,2,3,6,7,8-HxCDD			0.988	0.981-1.003
13C-1,2,3,4,7,8-HxCDF			0.949	0.944-0.970
13C-1,2,3,6,7,8-HxCDF			0.954	0.949-0.975
13C-2,3,4,6,7,8-HxCDF			0.978	0.959-1.021
13C-1,2,3,7,8,9-HxCDF			1.014	0.977-1.047
13C-1,2,3,4,6,7,8-HpCDD			1.127	1.086-1.130
13C-1,2,3,4,6,7,8-HpCDF			1.079	1.043-1.085
13C-1,2,3,4,7,8,9-HpCDF			1.151	1.057-1.154
13C-OCDD			1.269	1.032-1.311
13C-OCDF			1.279	1.000-1.311

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Analyst: 8Date: 3/8/11



Frontier Analytical Laboratory - Acquisition Log

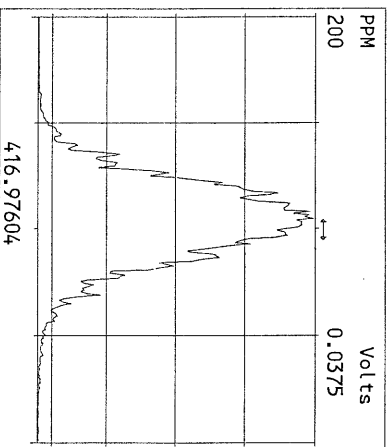
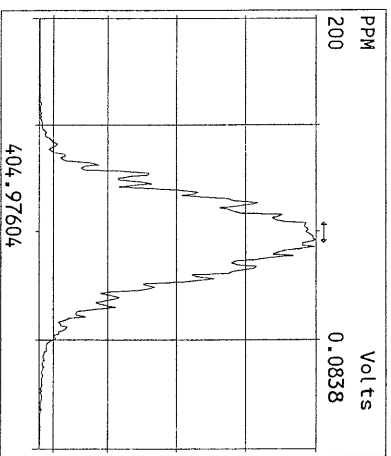
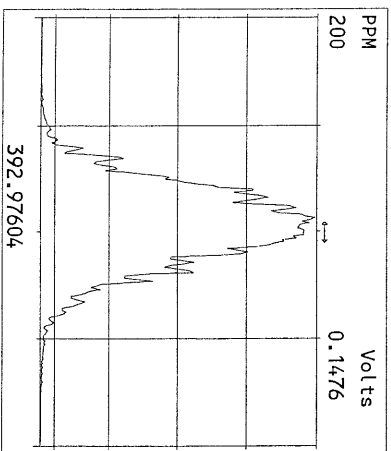
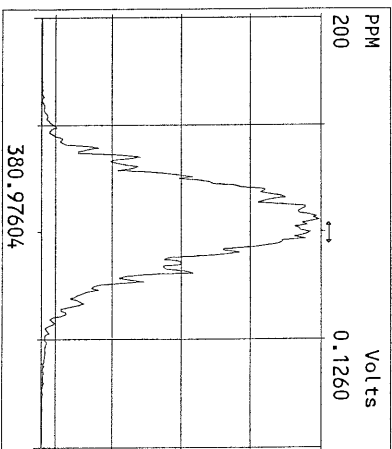
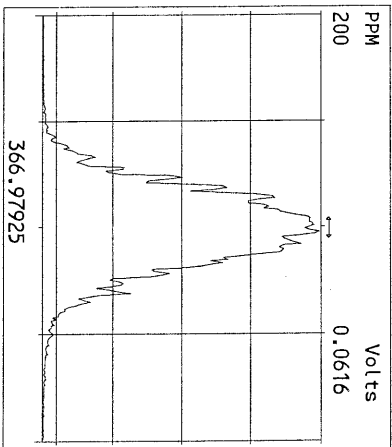
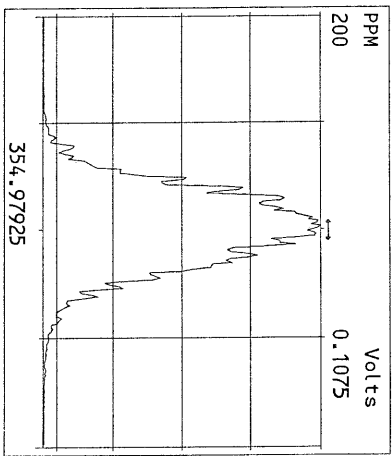
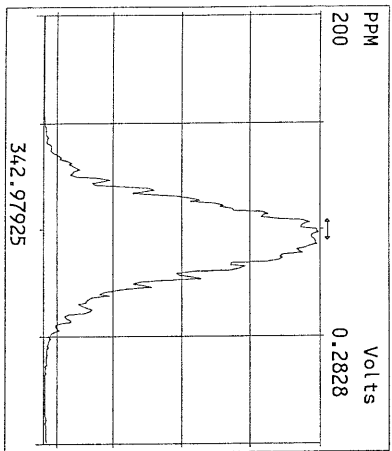
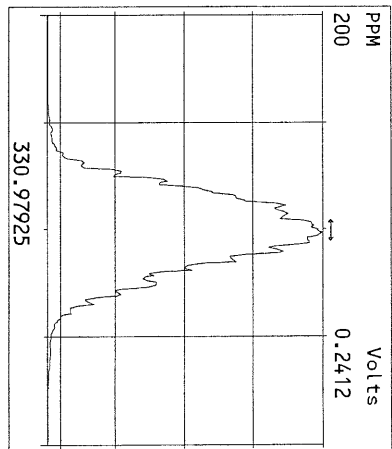
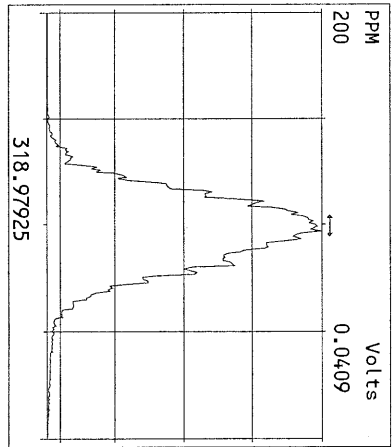
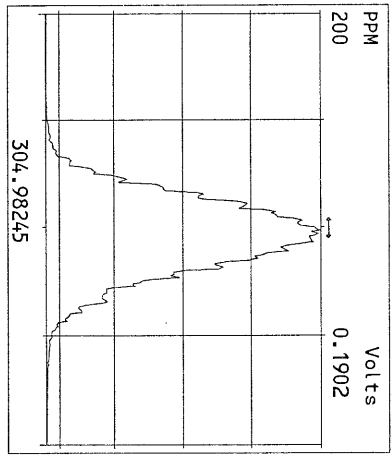
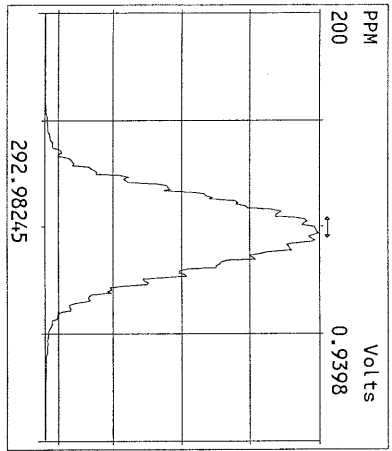
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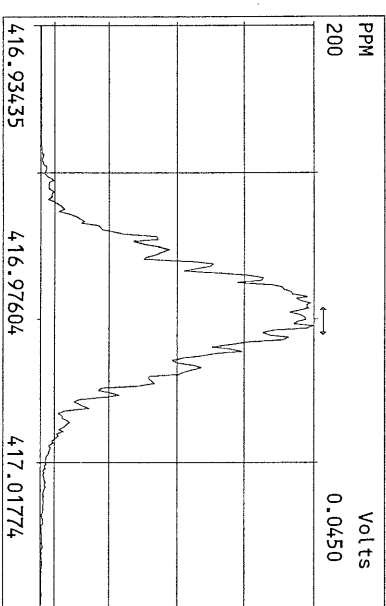
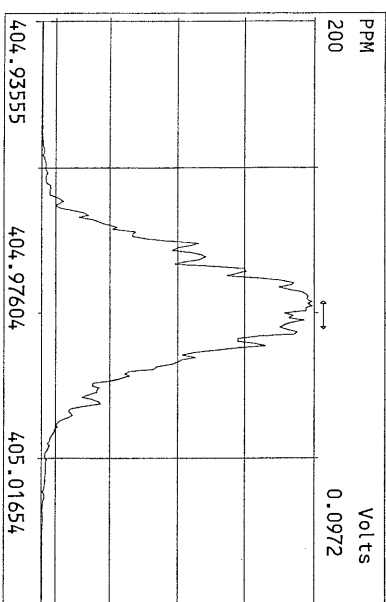
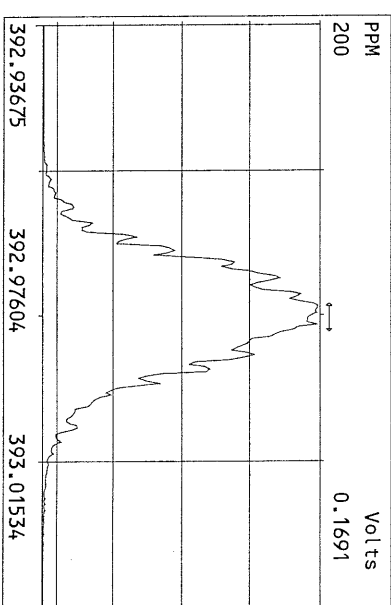
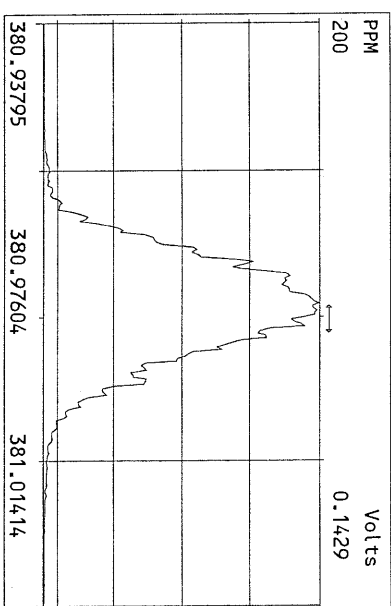
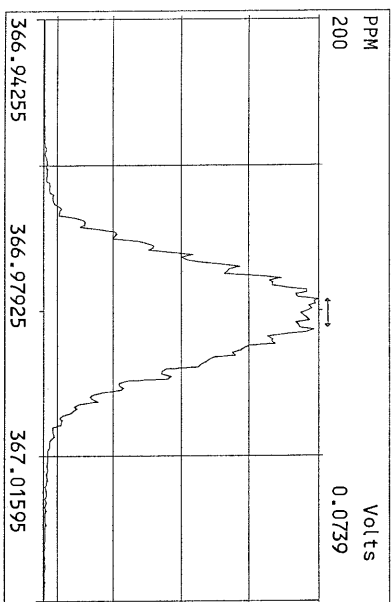
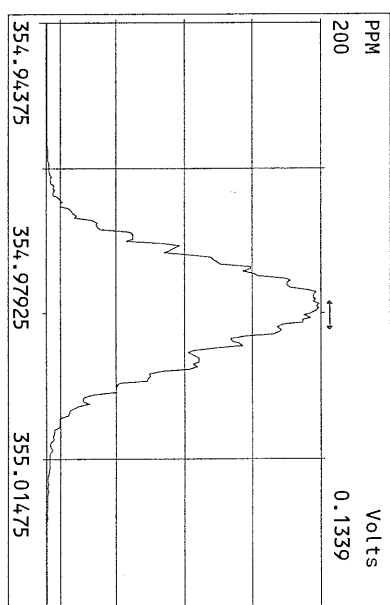
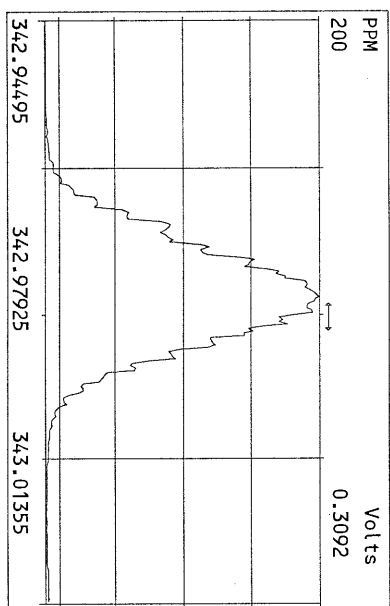
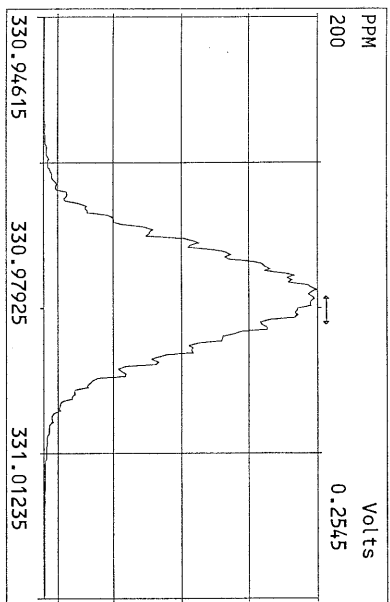
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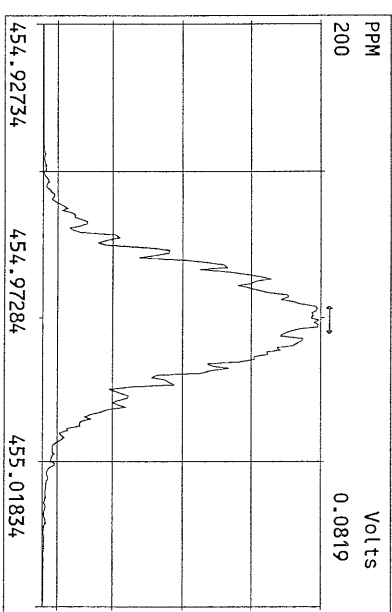
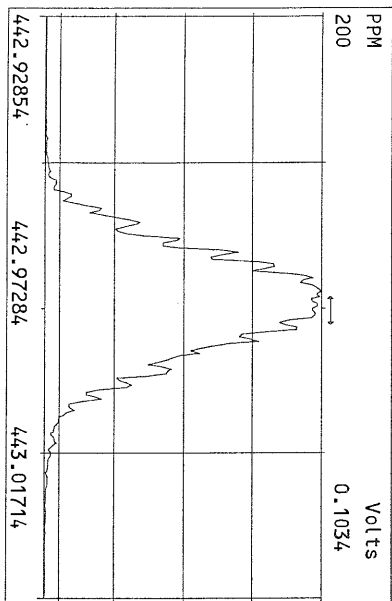
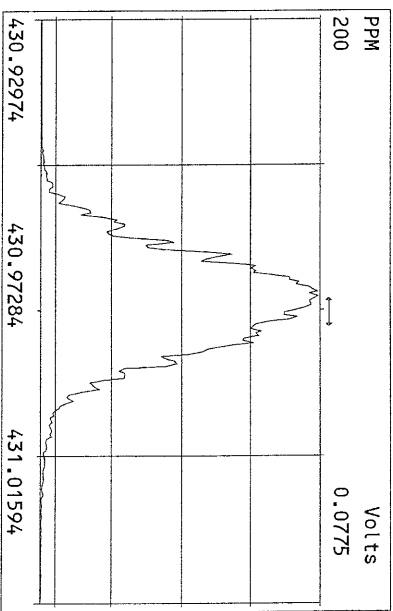
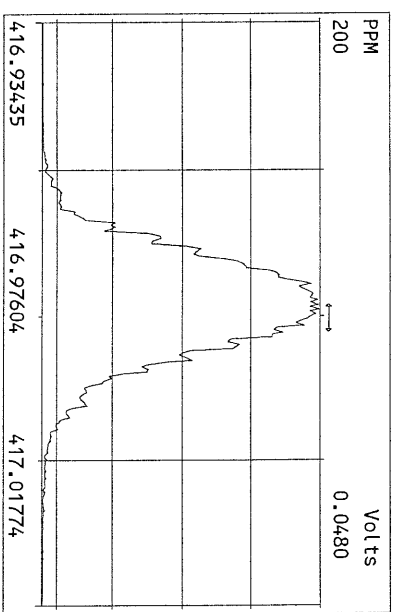
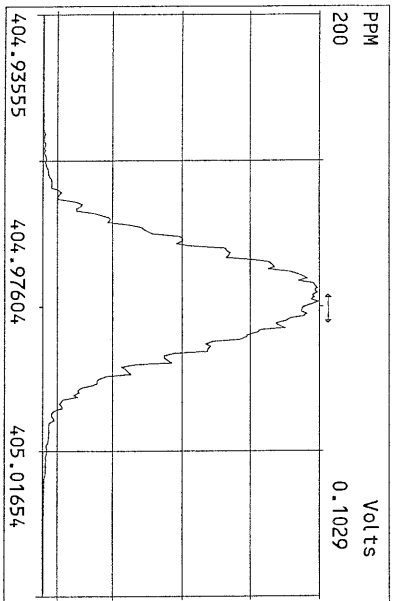
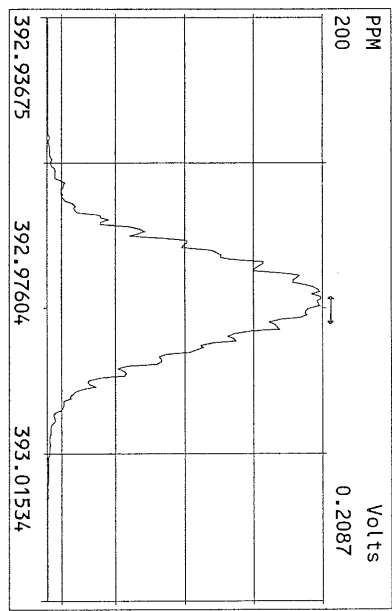
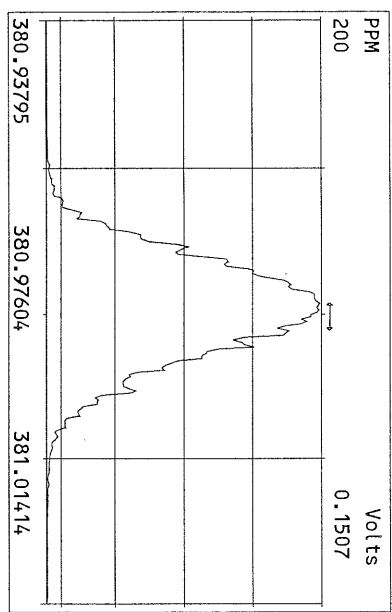
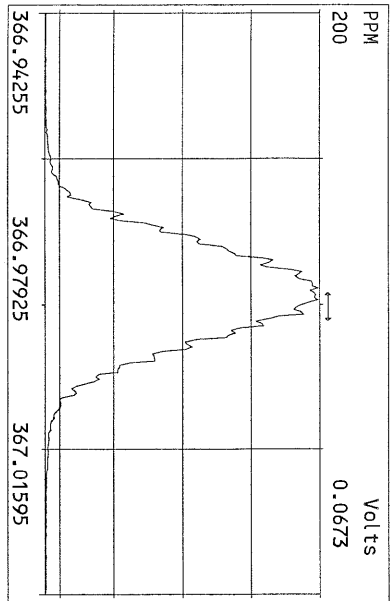
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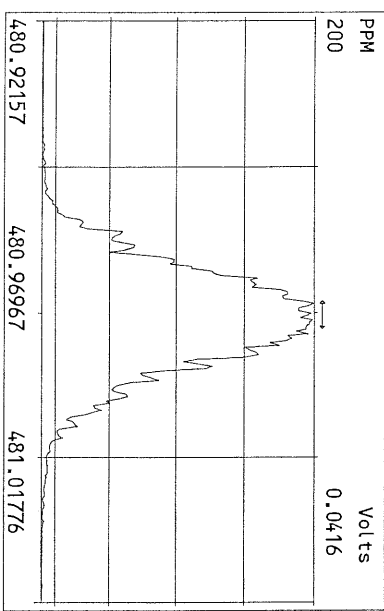
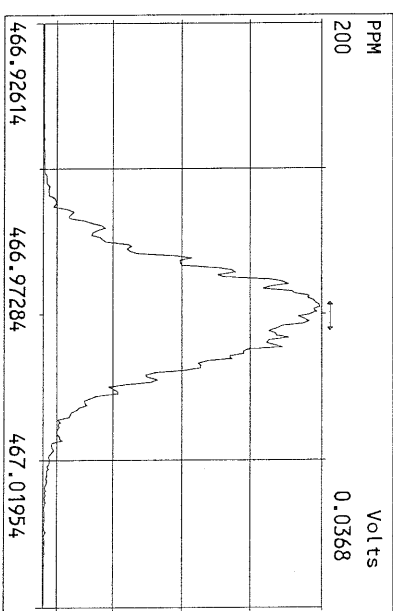
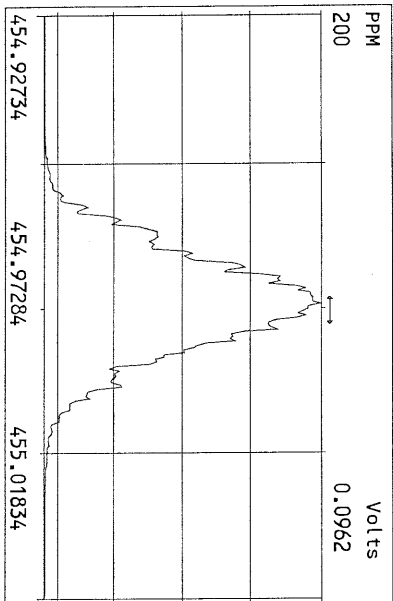
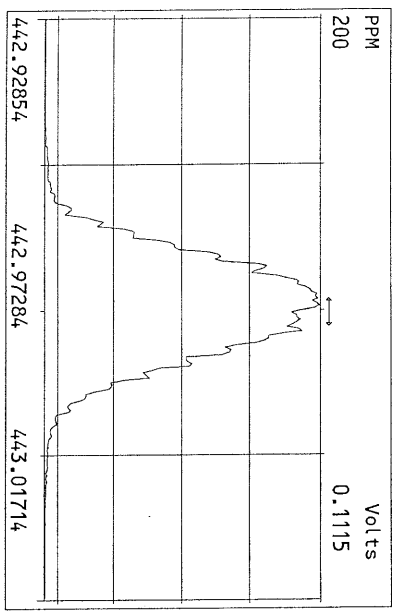
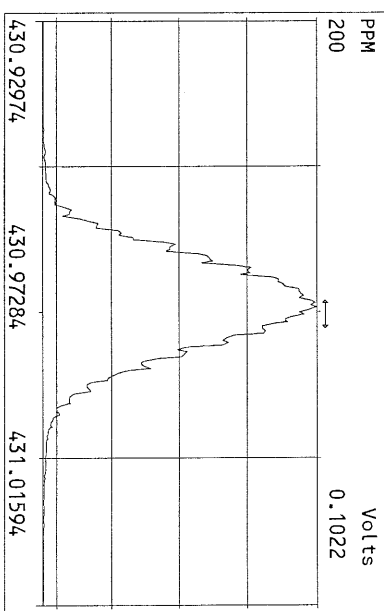
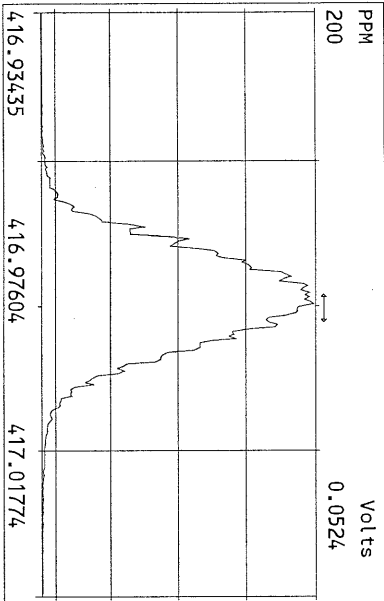
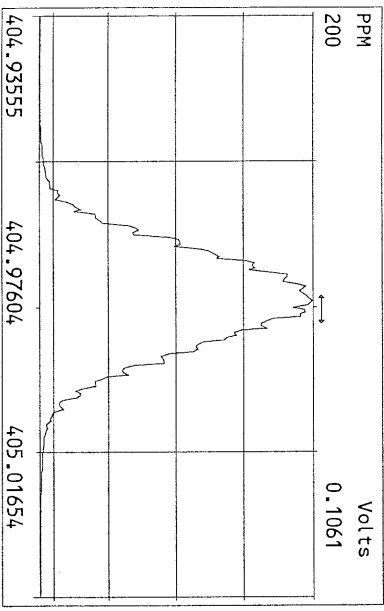


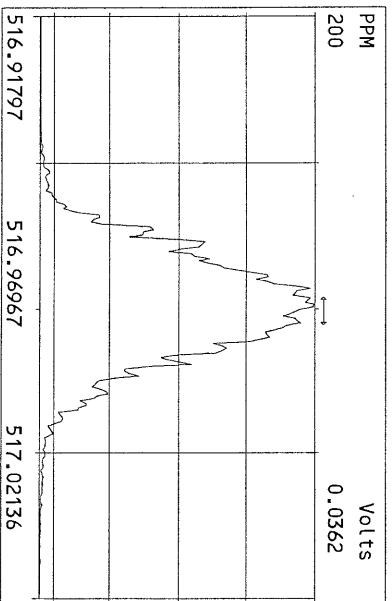
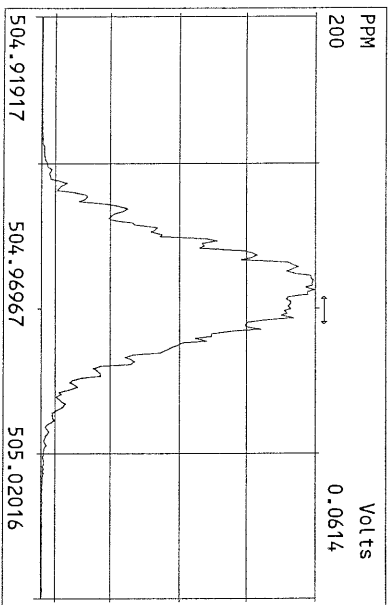
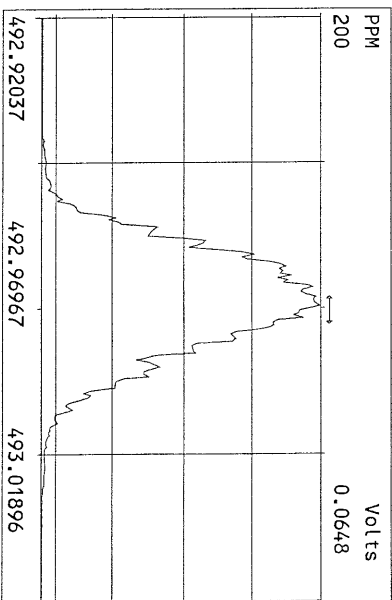
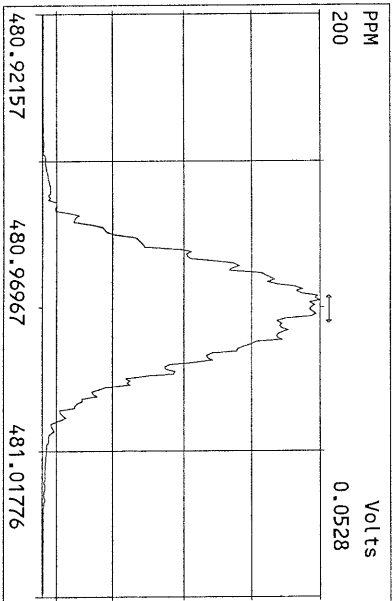
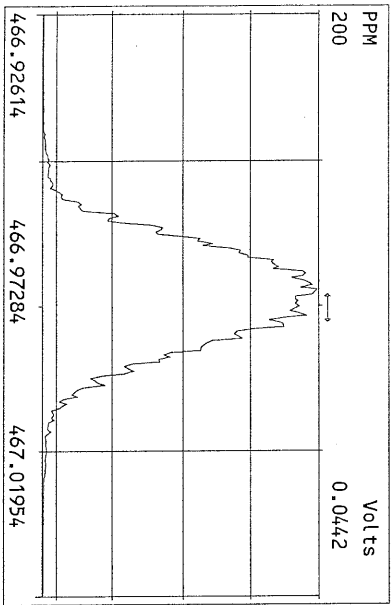
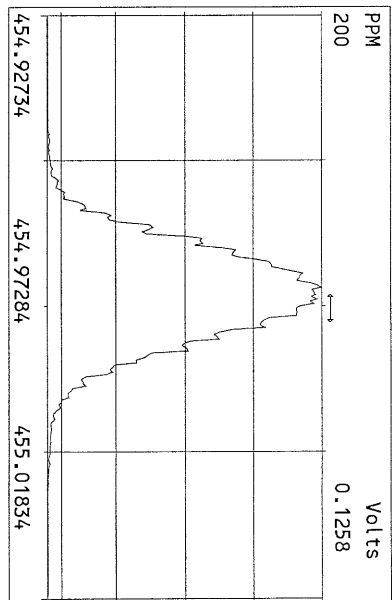
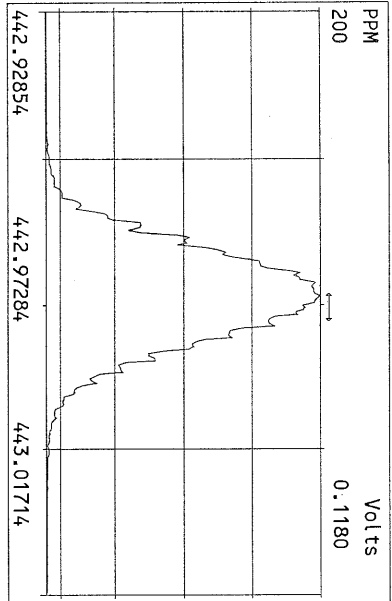
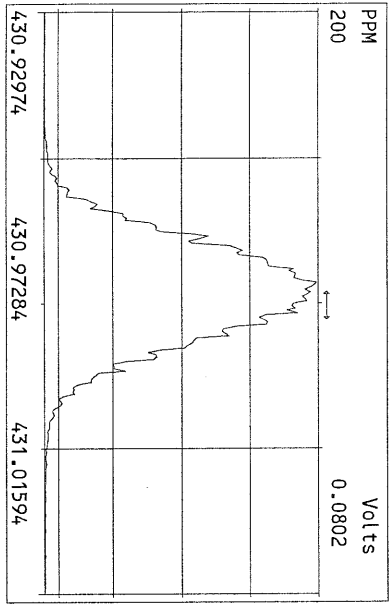




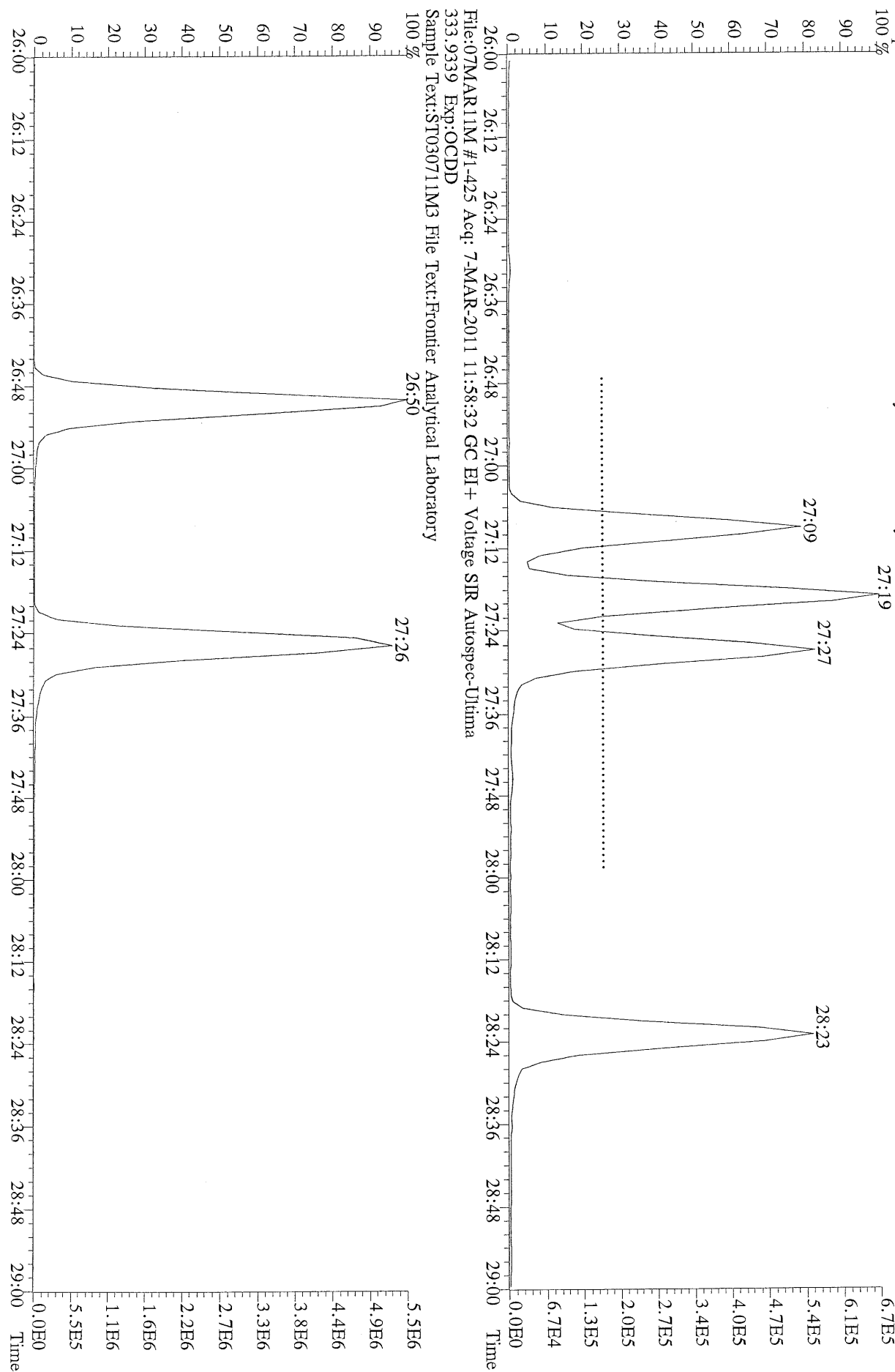


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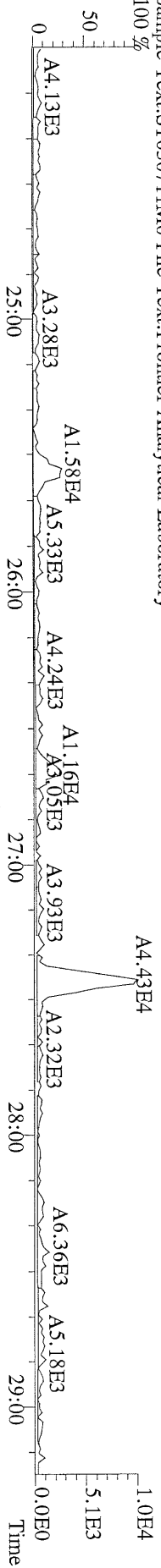




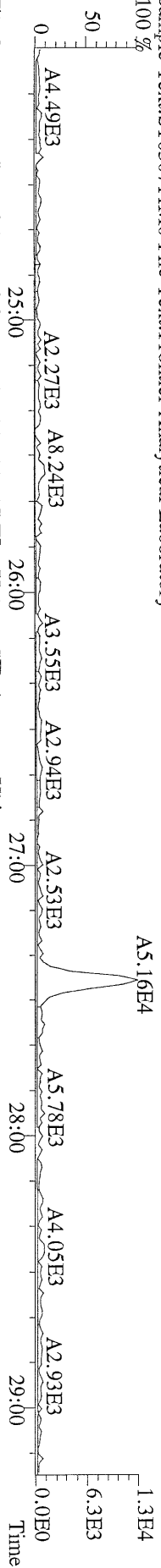
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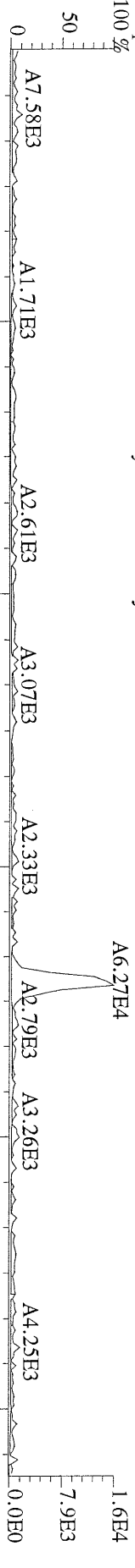
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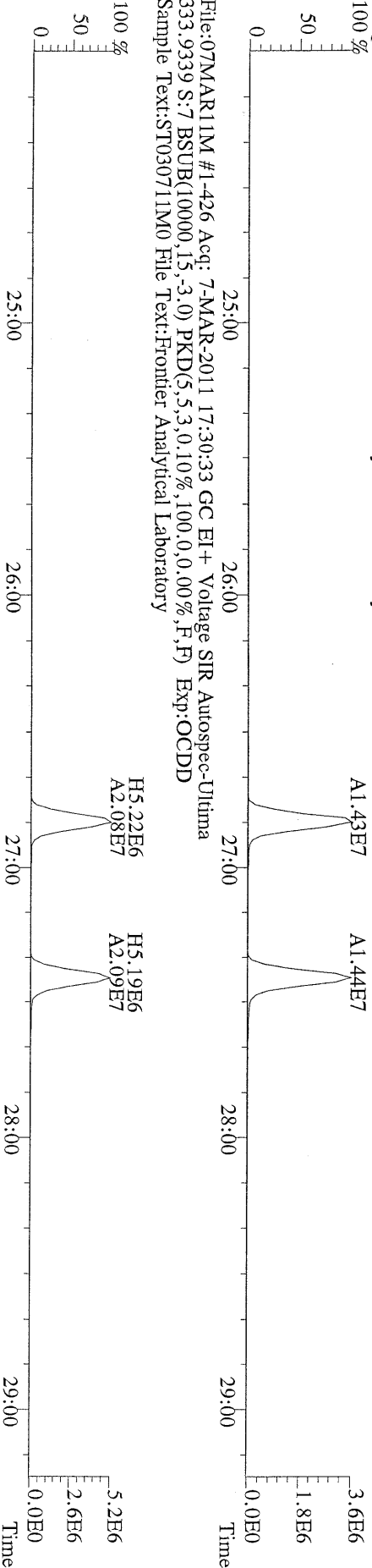
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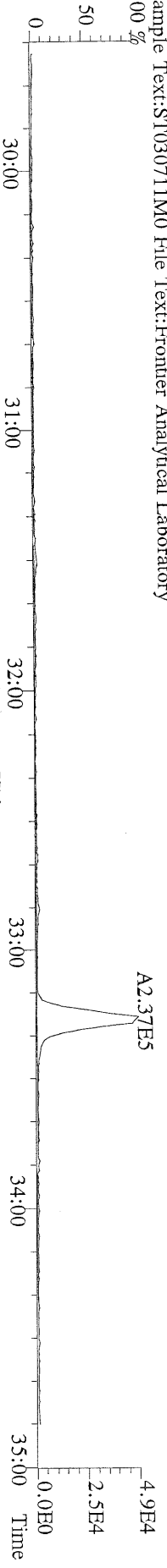
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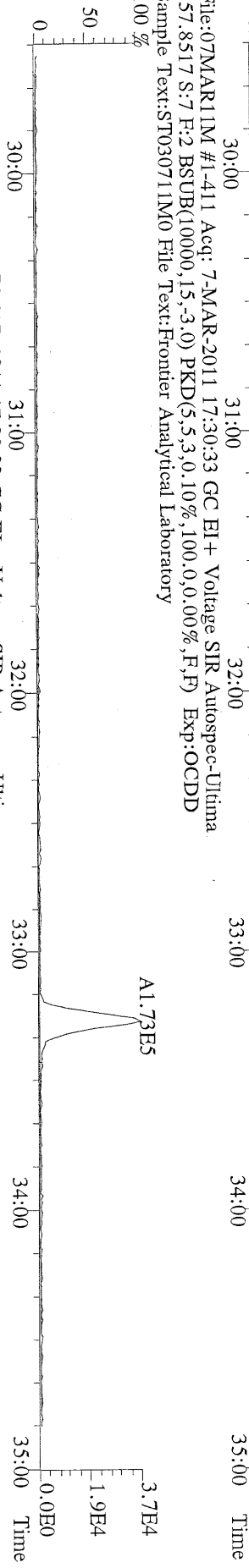
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331.9368 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



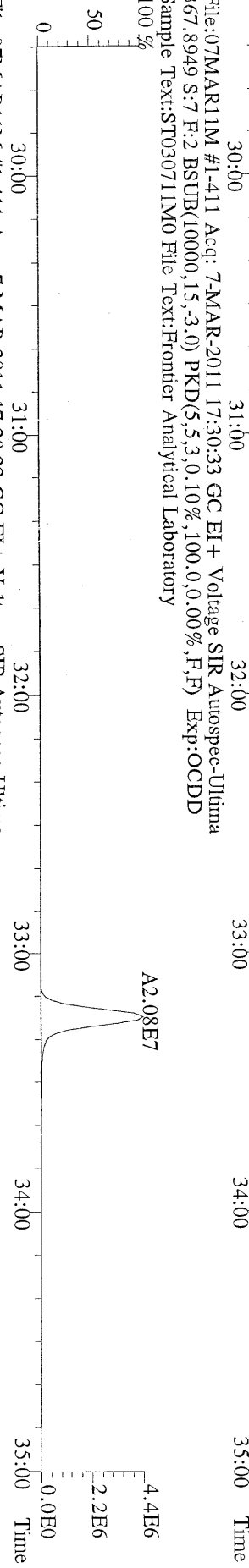
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355.8546 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory  
100 %



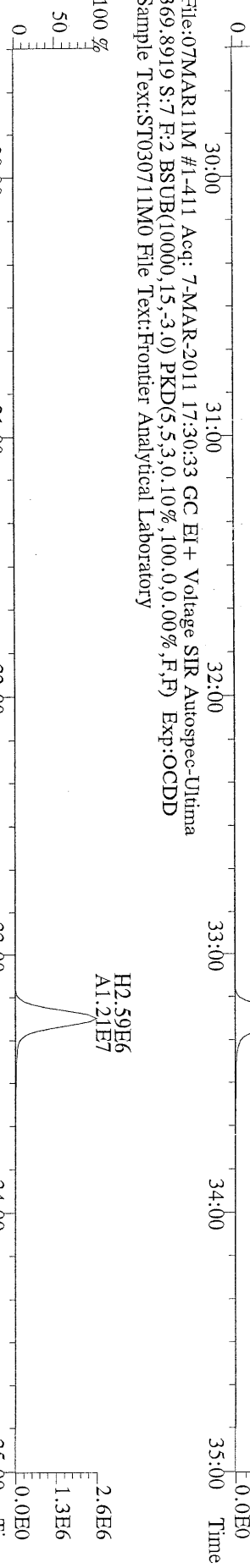
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357.8517 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory  
100 %



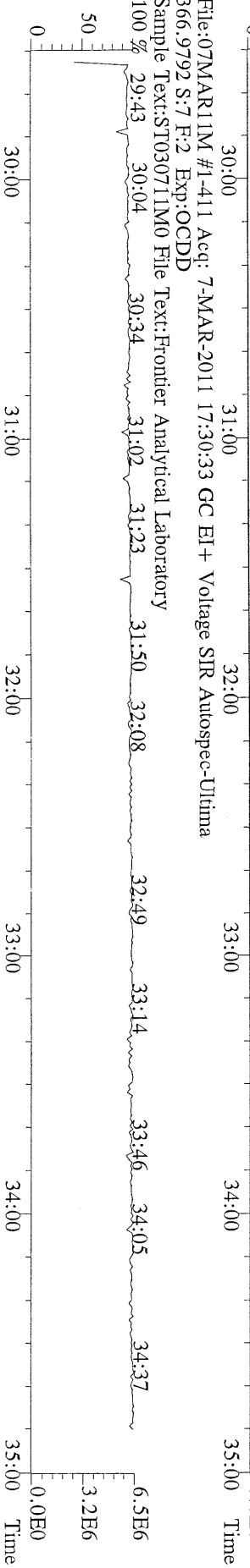
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367.8949 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory  
100 %



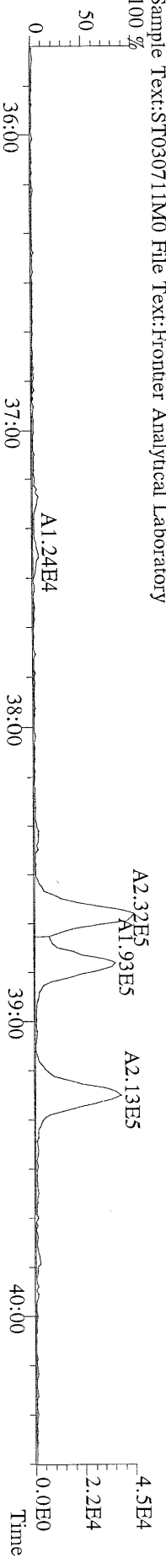
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369.8919 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



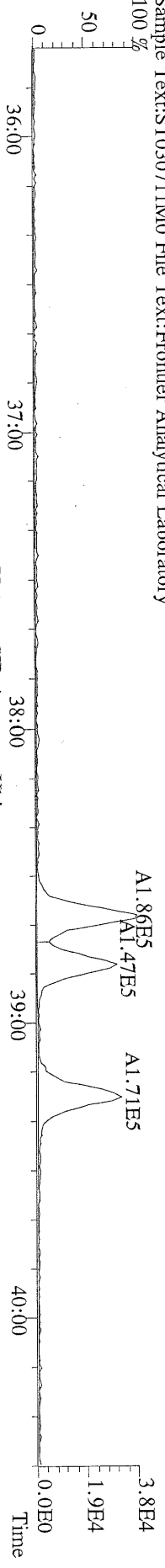
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366.9792 S:7 F:2 Exp:OCDD  
Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



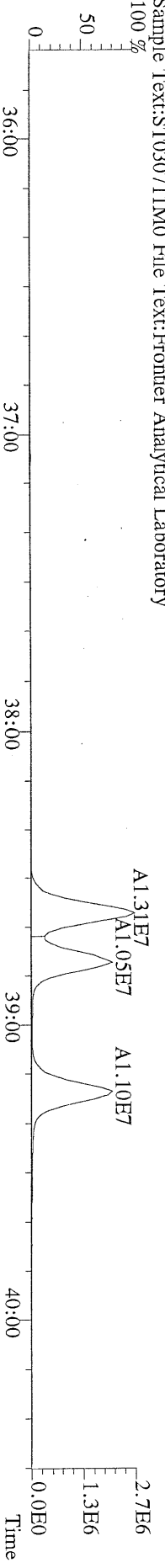
File:07MAR11M #1-477 Acq: 7-MAR-2011 17:30:33 GC EI+ Voltage SIR Autospec-Ultima  
 389.8156 S:7 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
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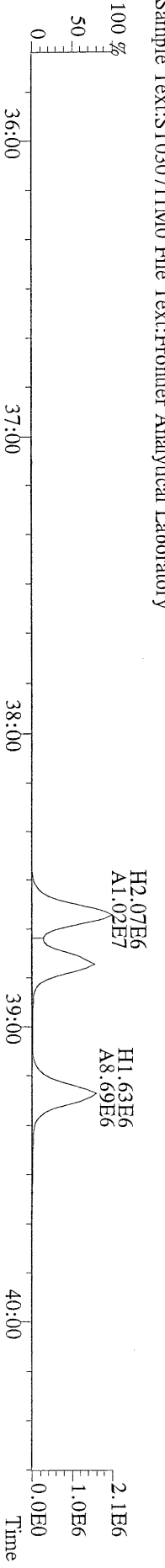
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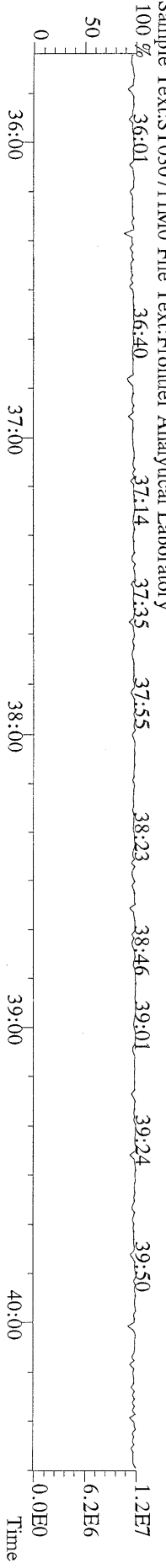
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 Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



File:07MAR11M #1-477 Acq: 7-MAR-2011 17:30:33 GC EI+ Voltage SIR Autospec-Ultima  
 403.8530 S:7 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory

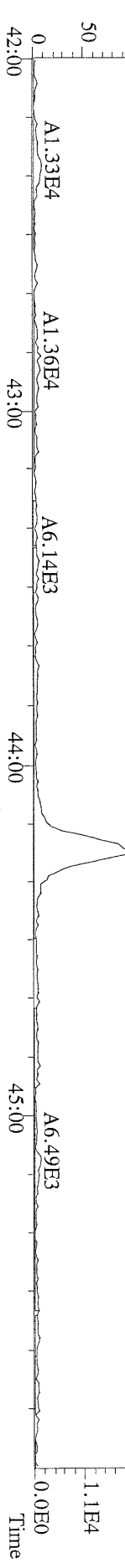


File:07MAR11M #1-477 Acq: 7-MAR-2011 17:30:33 GC EI+ Voltage SIR Autospec-Ultima  
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 Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory





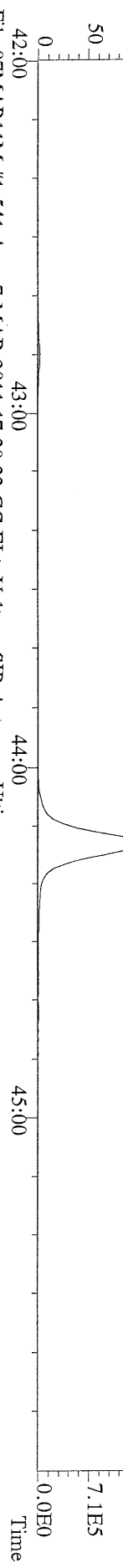
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423.7767 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



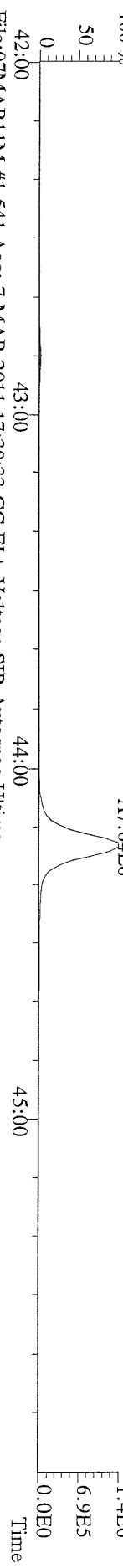
File:07MARI1M #1-541 Acq: 7-MAR-2011 17:30:33 GC EI+ Voltage SIR Autospec-Ultima  
425.7737 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:OCDD  
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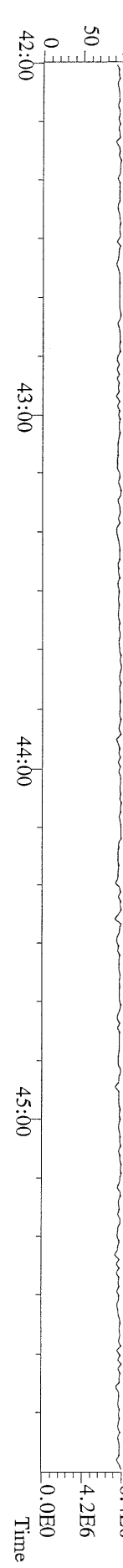
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435.8169 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



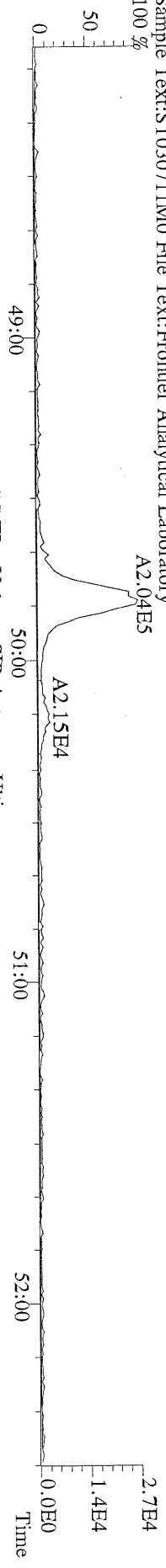
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437.8140 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



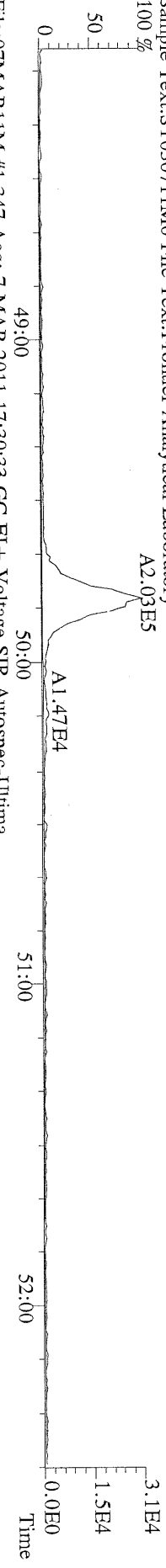
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430.9728 S:7 F:4 Exp:OCDD  
Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



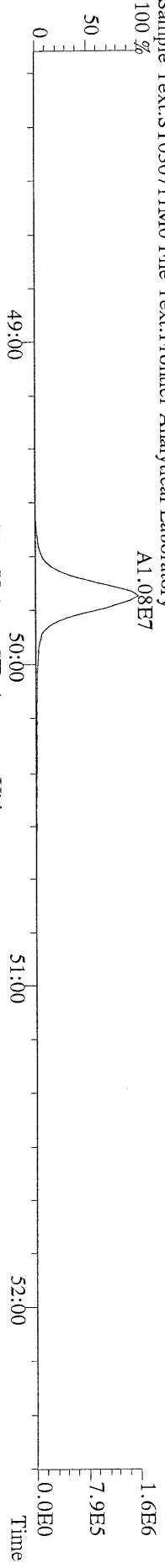
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457.7377 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
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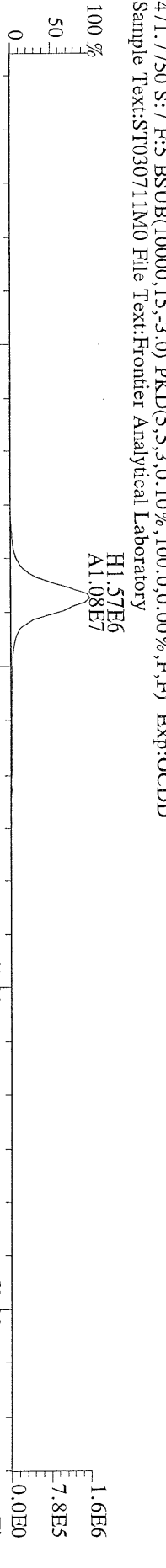
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459.7348 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



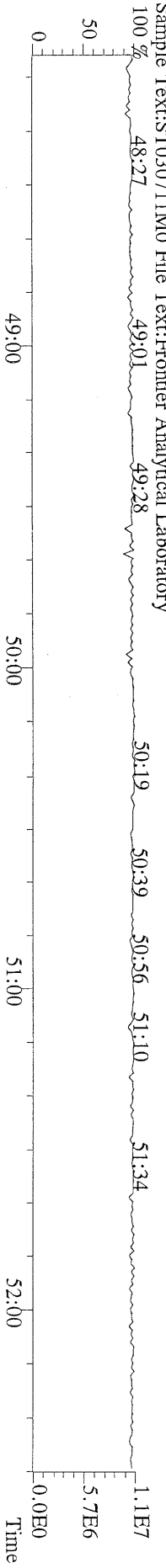
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469.7780 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
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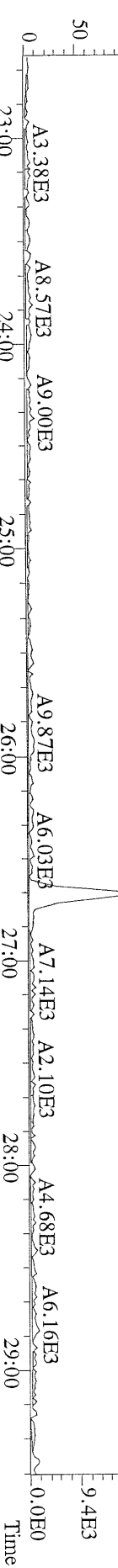
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471.7750 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
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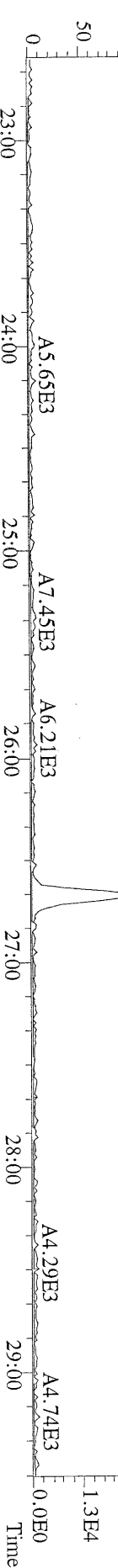
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Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



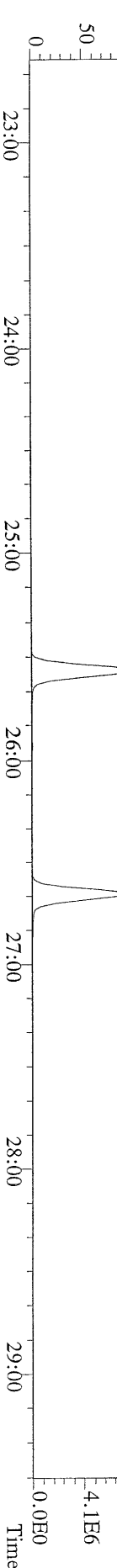
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 303.9016 S:7 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



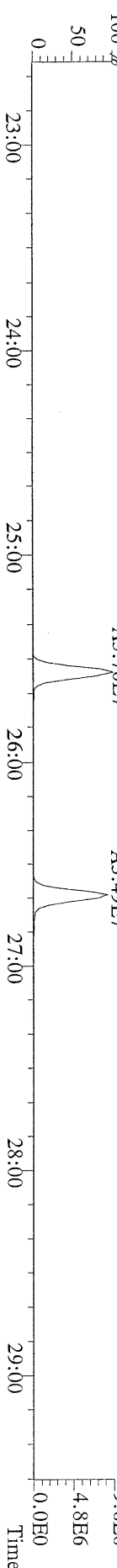
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 305.8987 S:7 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



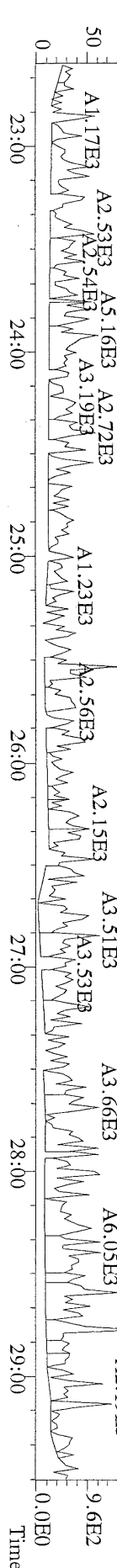
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 315.9419 S:7 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



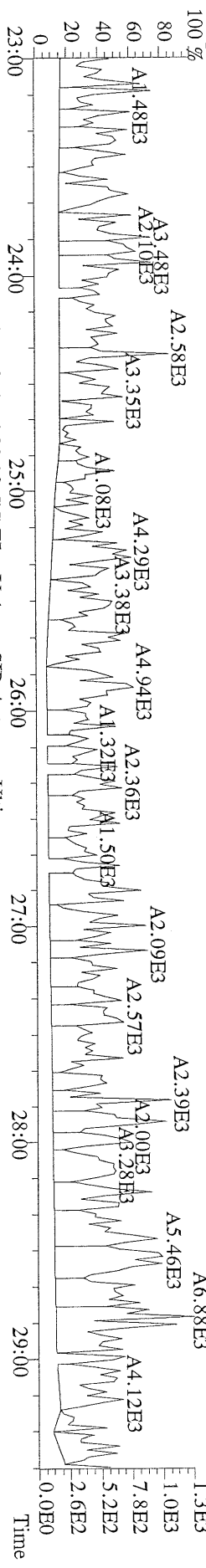
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 317.9389 S:7 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



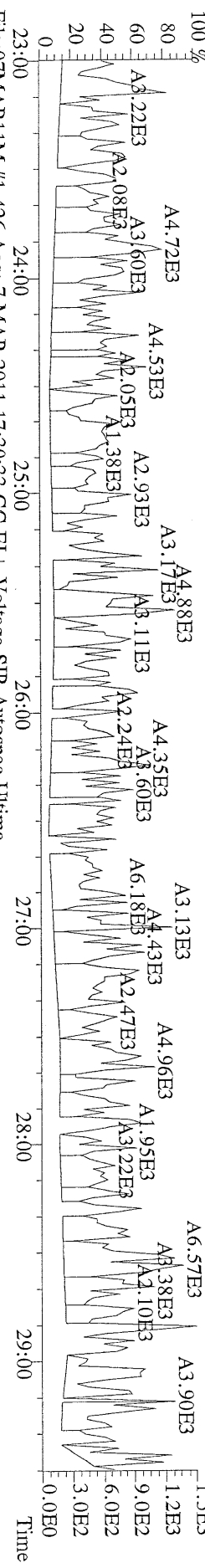
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 375.8364 S:7 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



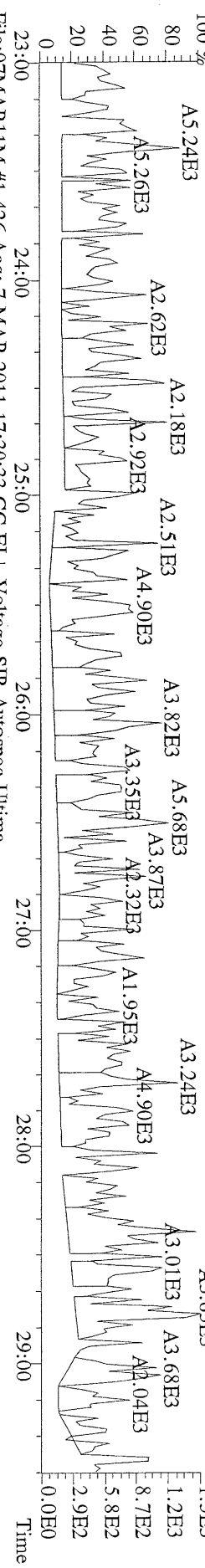
File:07MAR11M #1-426 Acq: 7-MAR-2011 17:30:33 GC EI+ Voltage SIR Autospec-Utima  
 339.8597 S:7 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



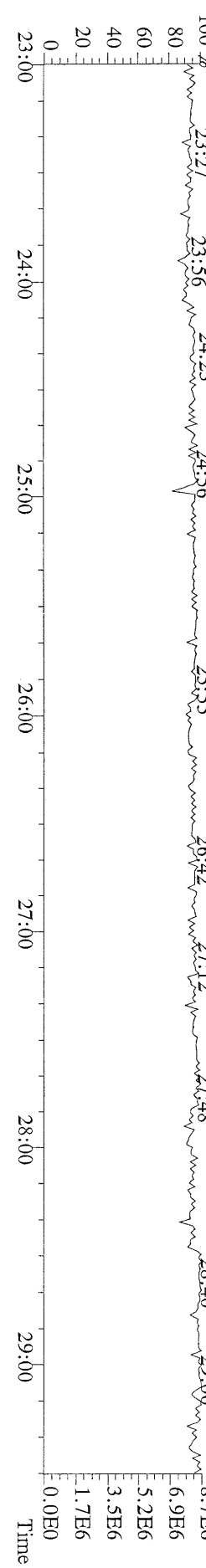
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 341.8568 S:7 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



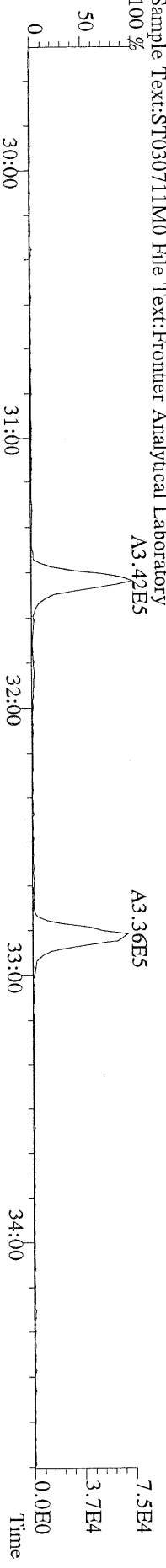
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 409.7974 S:7 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



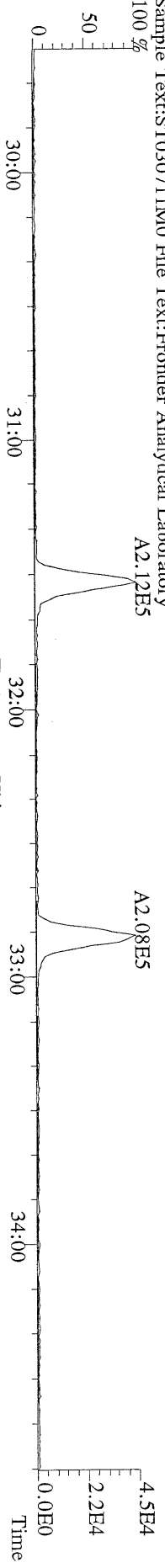
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 316.9824 S:7 Exp:OCDD  
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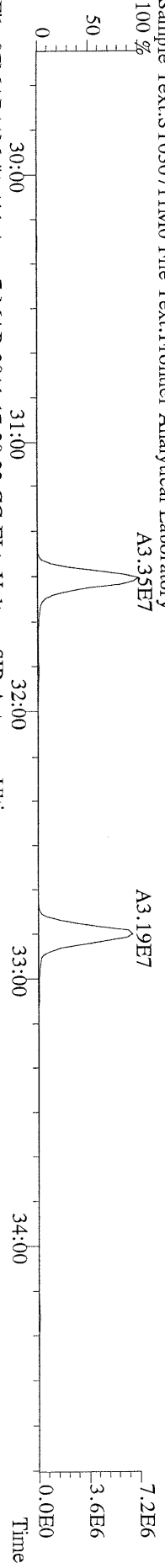
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 339.8597 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
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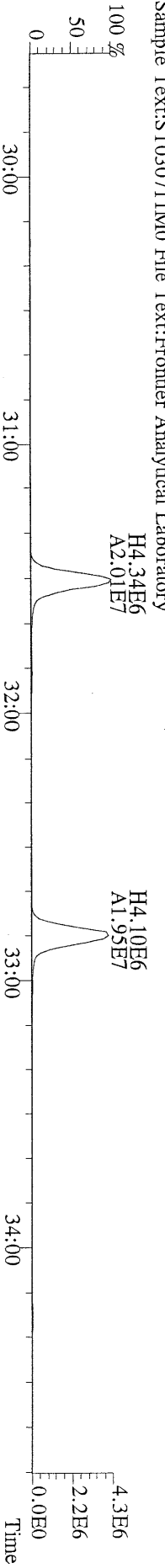
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 341.8568 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
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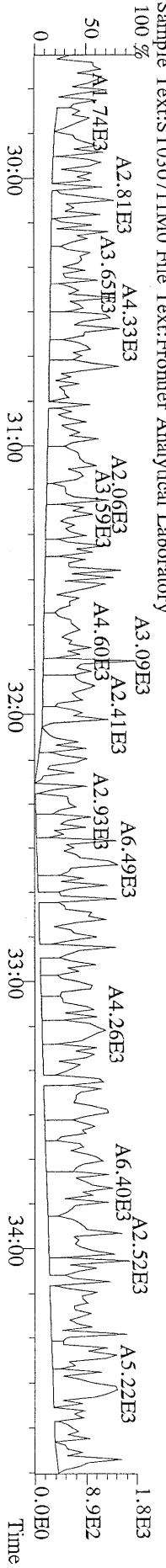
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 351.9000 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
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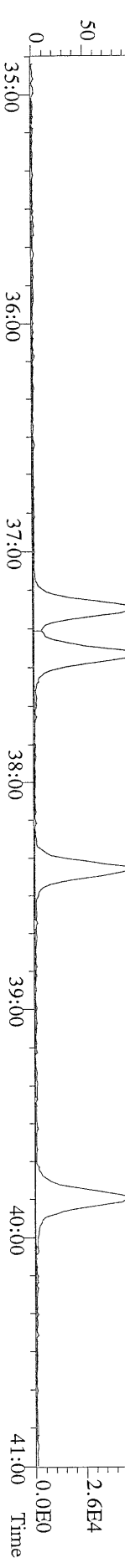
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 353.8970 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
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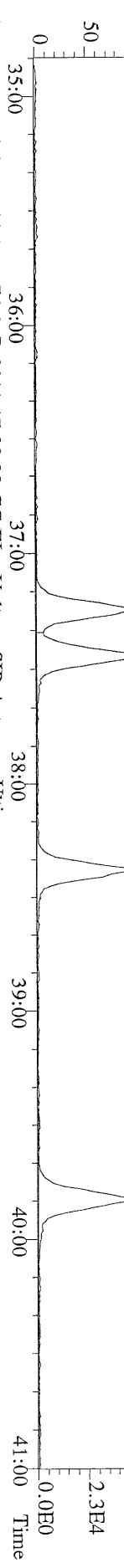
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 Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



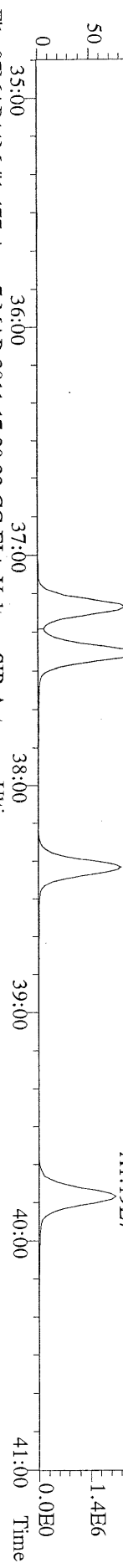
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 373.8207 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
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 100 %



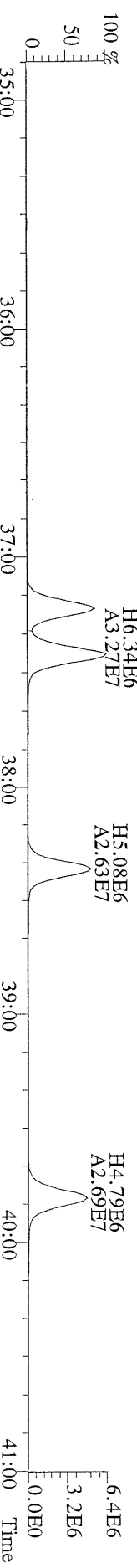
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 Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory  
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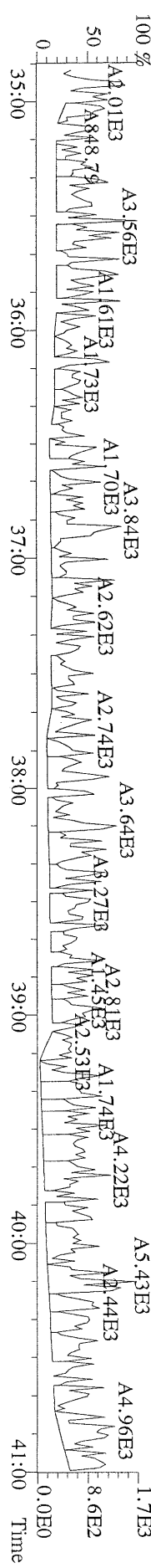
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 383.8639 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
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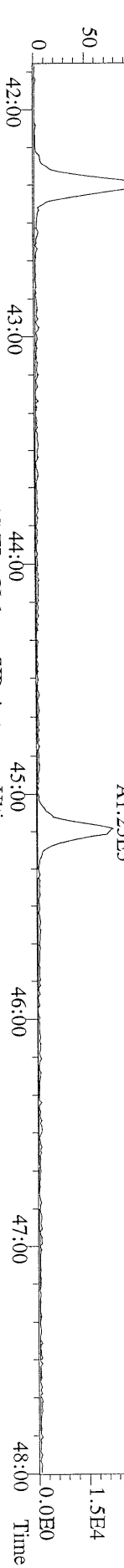
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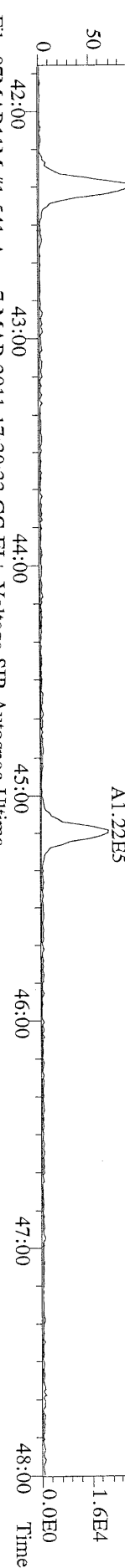
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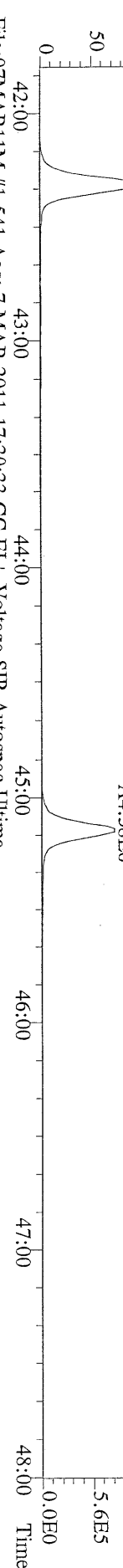
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407.7818 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



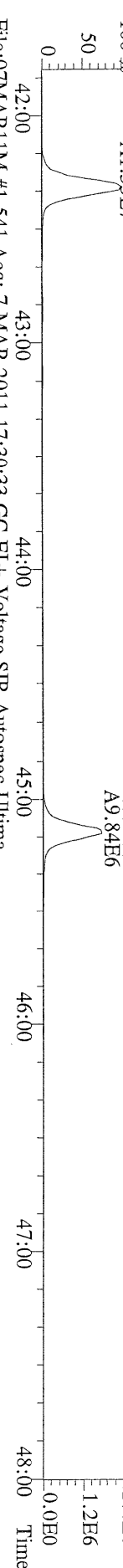
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409.7788 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
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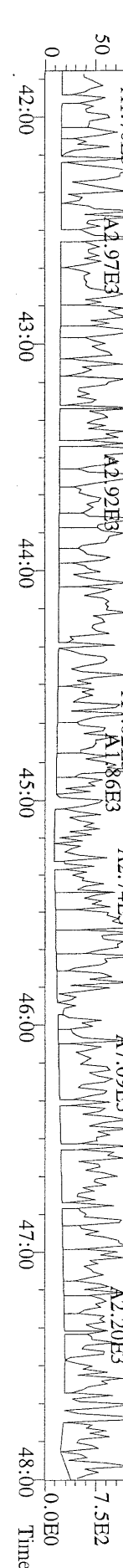
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417.8253 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



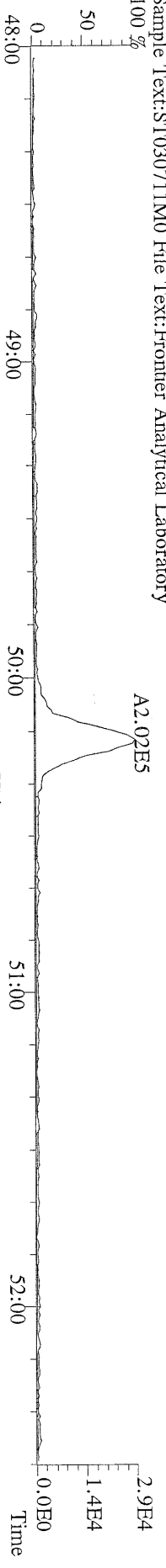
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419.8220 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



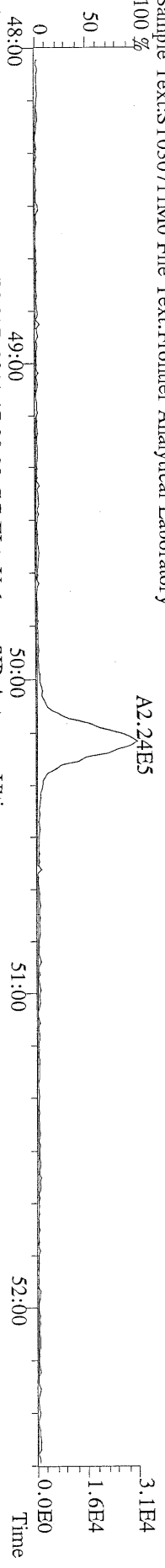
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479.7165 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



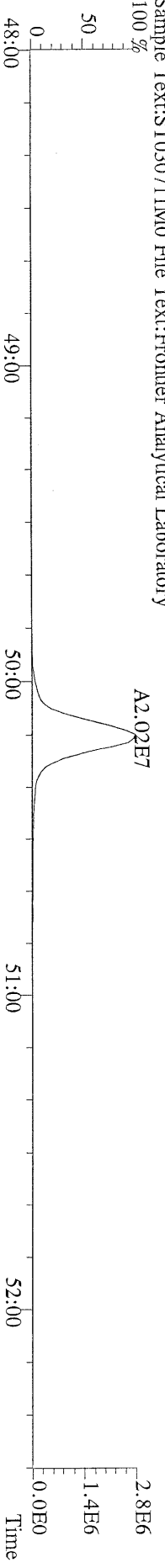
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441.7428 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory  
100 %



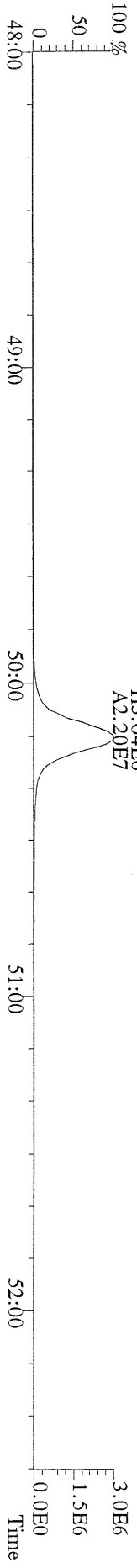
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443.7398 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory  
100 %



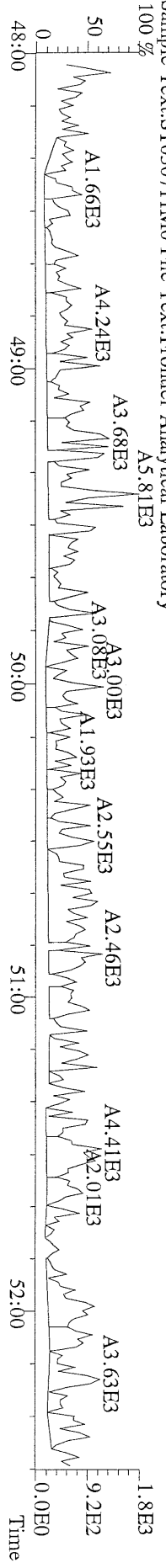
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453.7831 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory  
100 %



File:07MAR11M #1-347 Acq: 7-MAR-2011 17:30:33 GC EI+ Voltage SIR Autospec-Ultima  
455.7801 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory

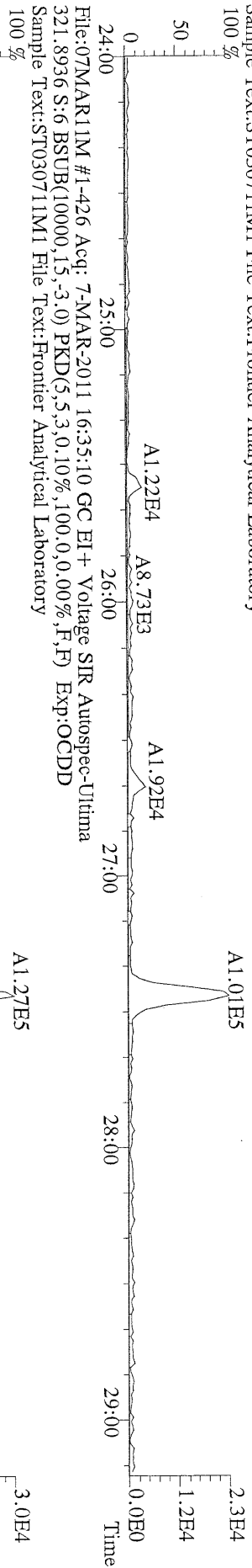


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513.6775 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory  
100 %

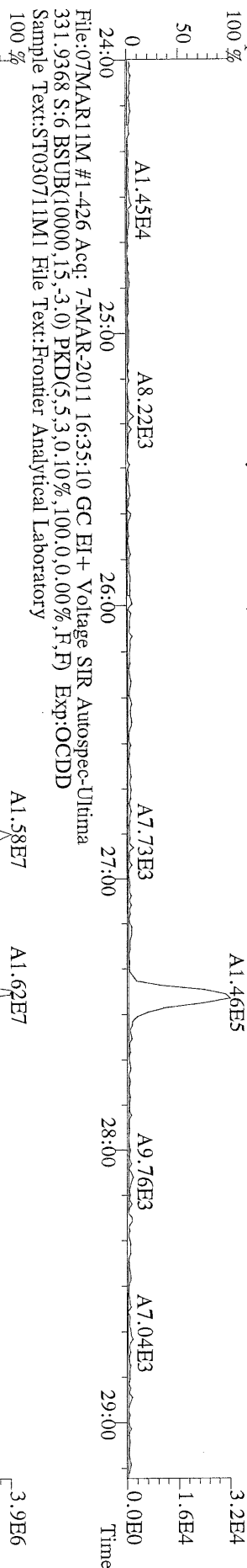




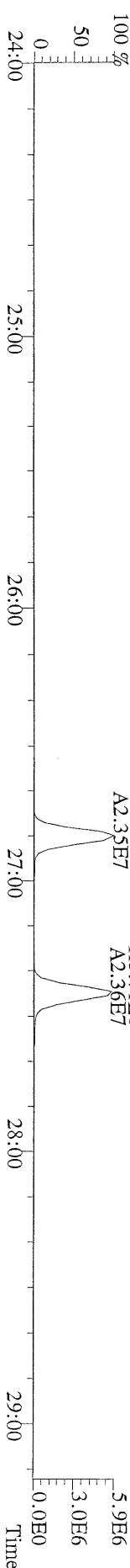
File:07MAR11M1 #1-426 Acq: 7-MAR-2011 16:35:10 GC EI+ Voltage SIR Autospec-Ultima  
319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



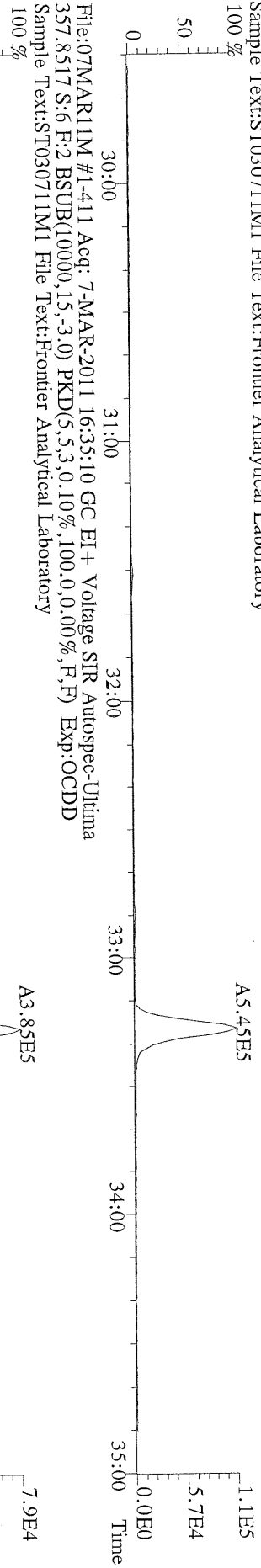
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327.8847 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



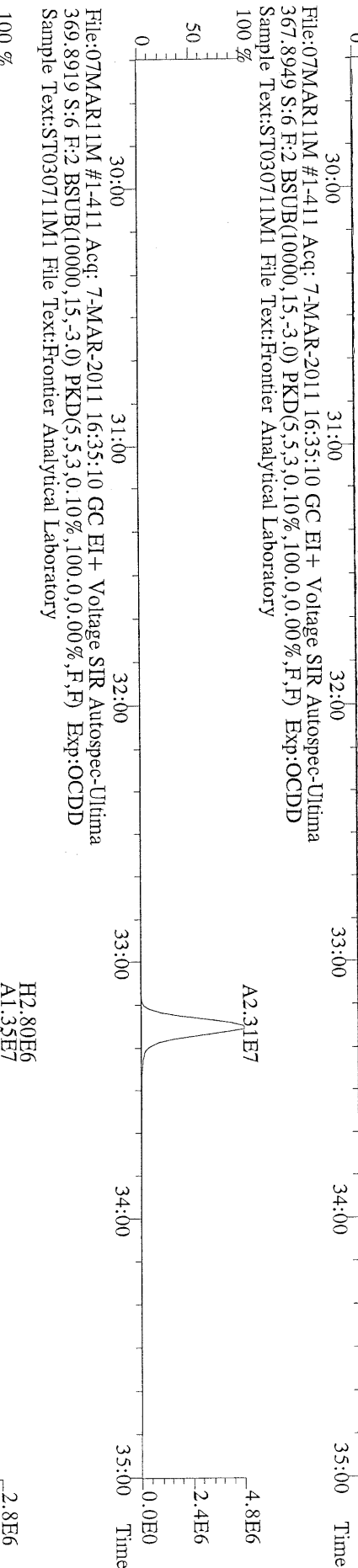
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333.9339 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



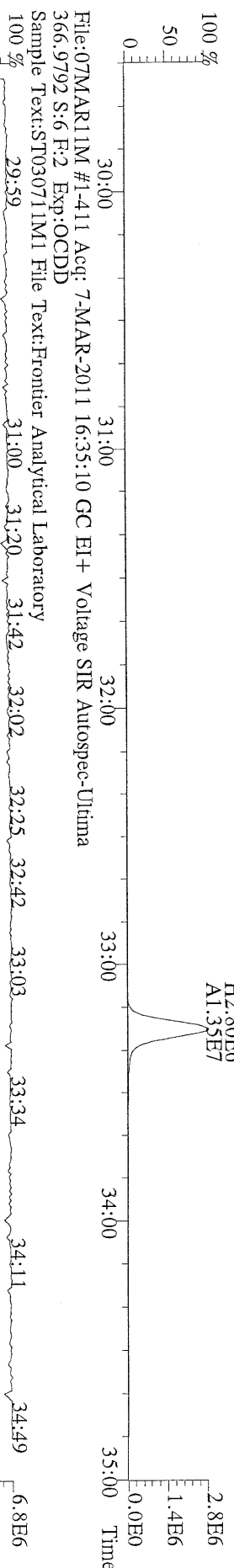
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355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



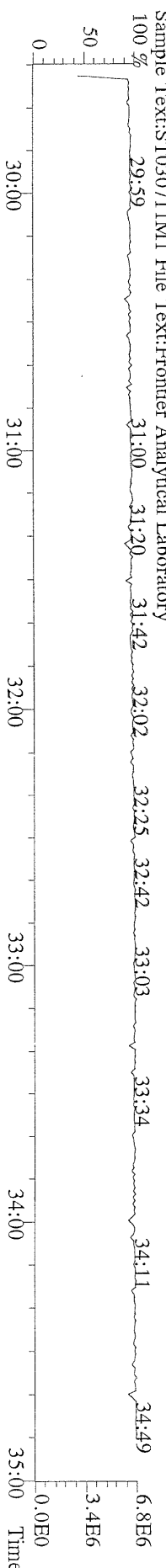
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367.8949 S:6 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



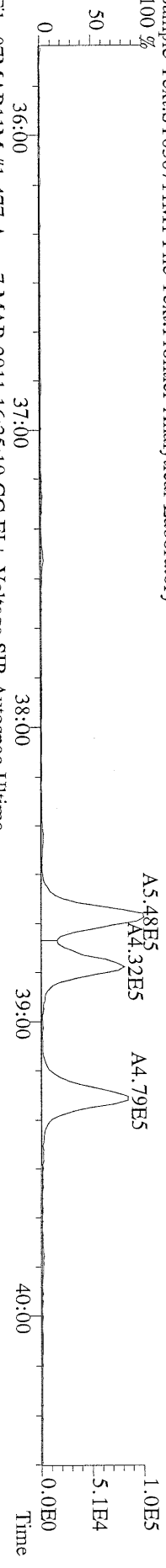
File:07MAR11M #1-411 Acq: 7-MAR-2011 16:35:10 GC EI+ Voltage SIR Autospec-Ultima  
369.8919 S:6 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



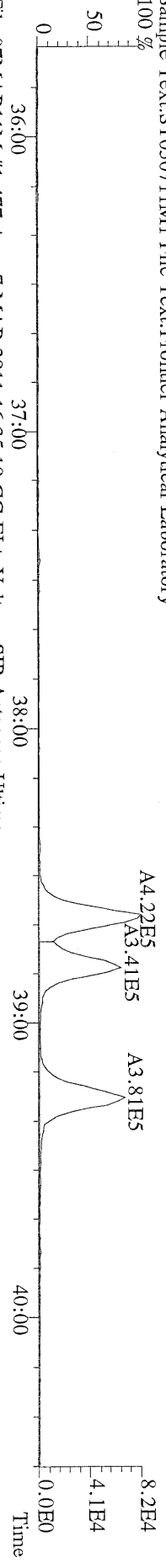
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366.9792 S:6 F:2 Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



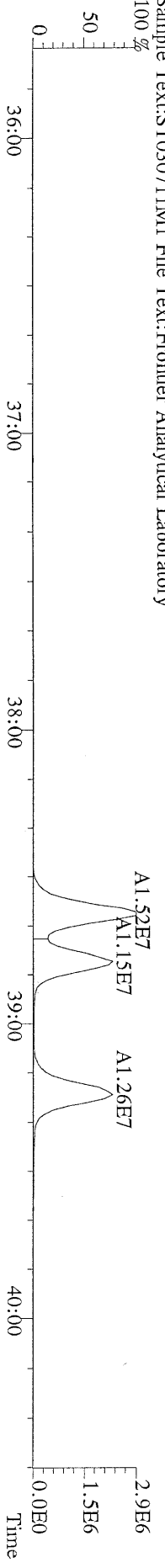
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389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



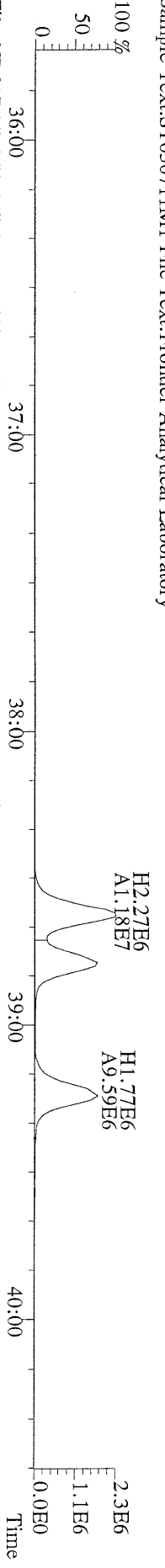
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391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



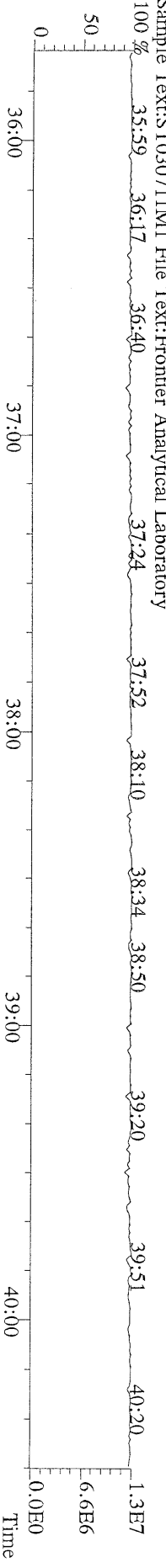
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401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



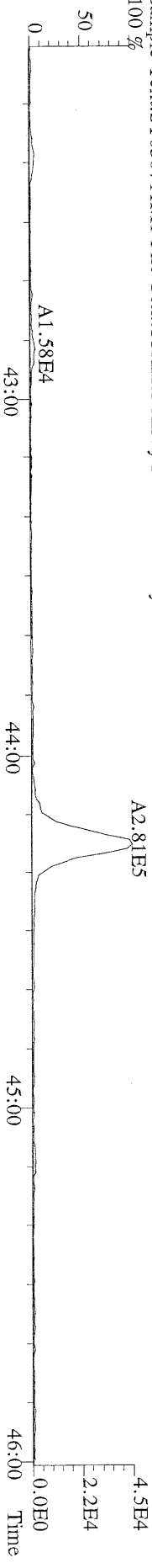
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403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



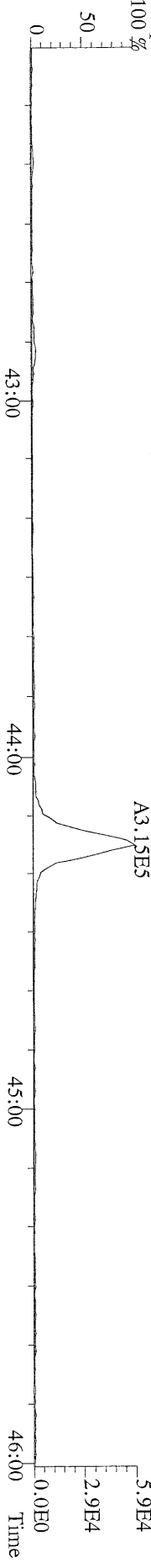
File:07MAR11M #1-477 Acq: 7-MAR-2011 16:35:10 GC EI+ Voltage SIR Autospec-Utima  
380.9760 S:6 F:3 Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



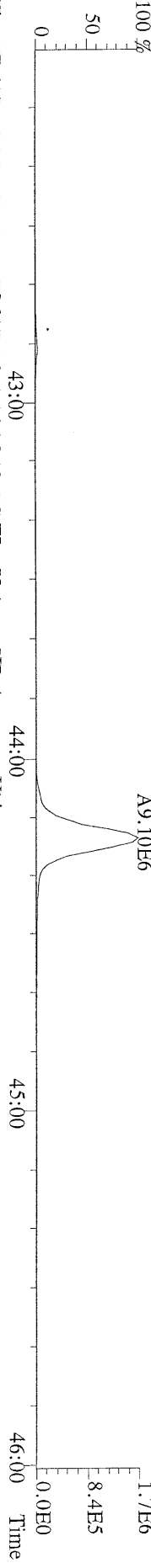
File:07MAR11M #1-541 Acq: 7-MAR-2011 16:35:10 GC EI+ Voltage SIR Autospec-Ultima  
423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



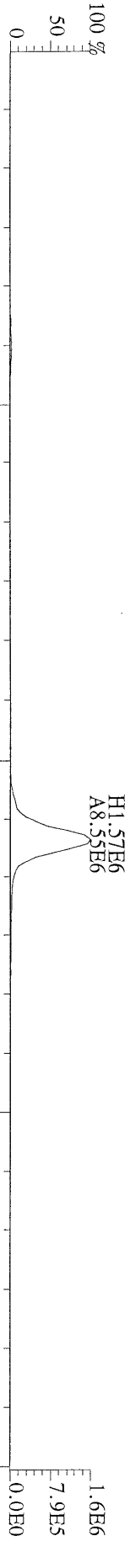
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425.7737 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



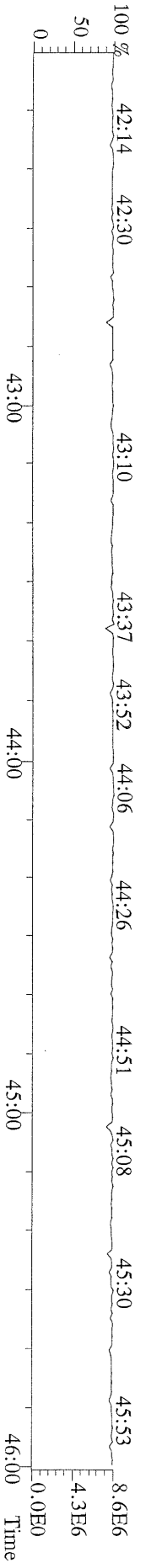
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435.8169 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



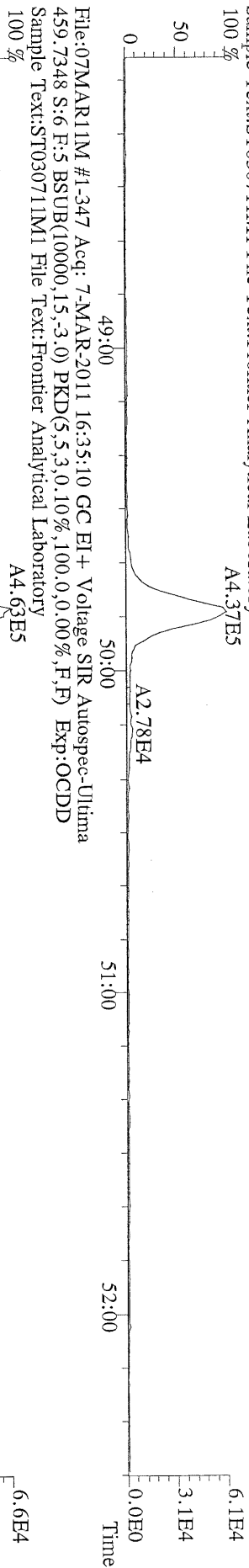
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437.8140 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



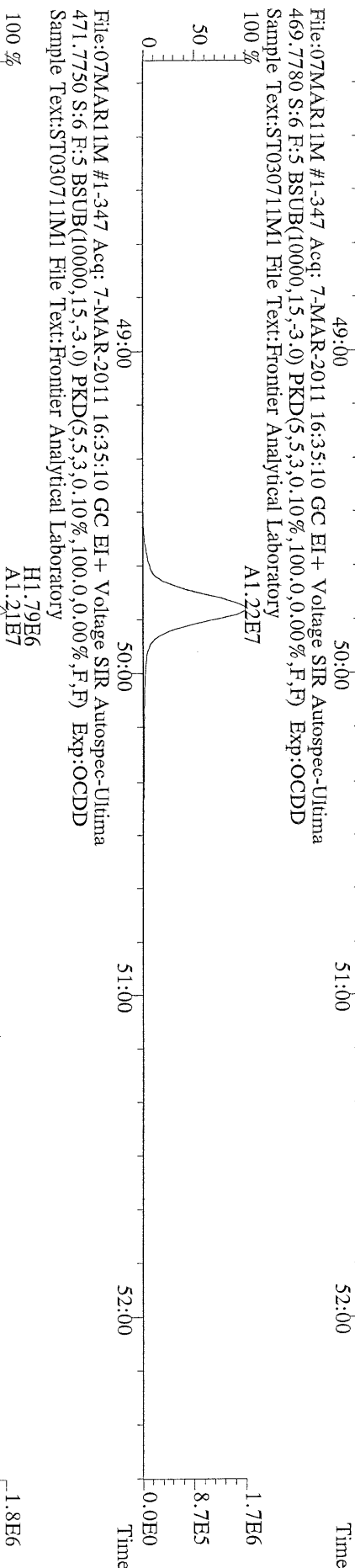
File:07MAR11M #1-541 Acq: 7-MAR-2011 16:35:10 GC EI+ Voltage SIR Autospec-Ultima  
430.9728 S:6 F:4 Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



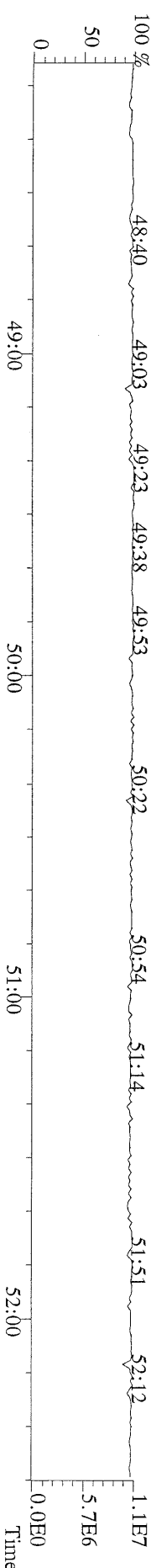
File:07MARI1M #1-347 Acq: 7-MAR-2011 16:35:10 GC EI+ Voltage SIR Autospec-Ultima  
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



File:07MARI1M #1-347 Acq: 7-MAR-2011 16:35:10 GC EI+ Voltage SIR Autospec-Ultima  
469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory

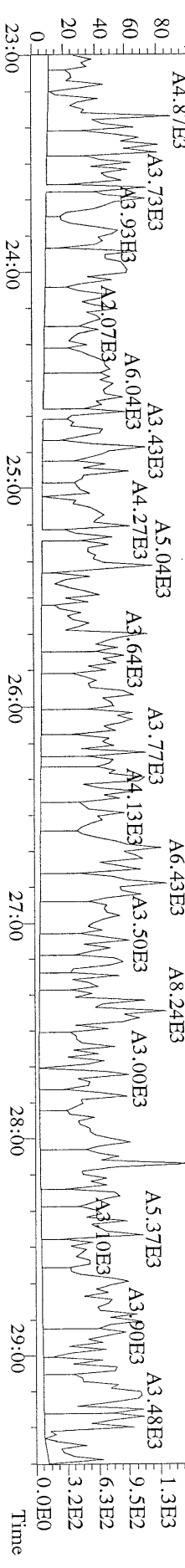


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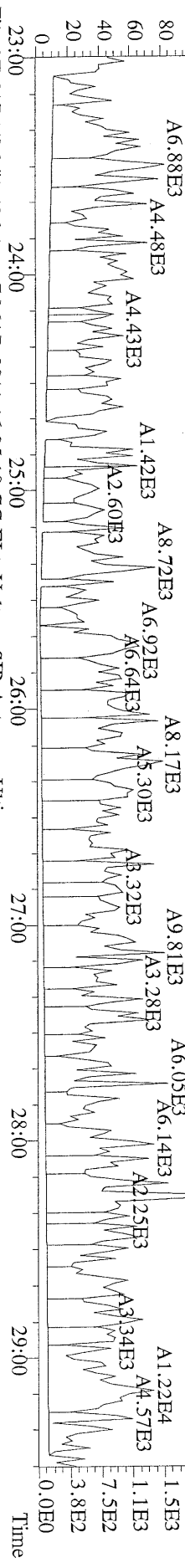




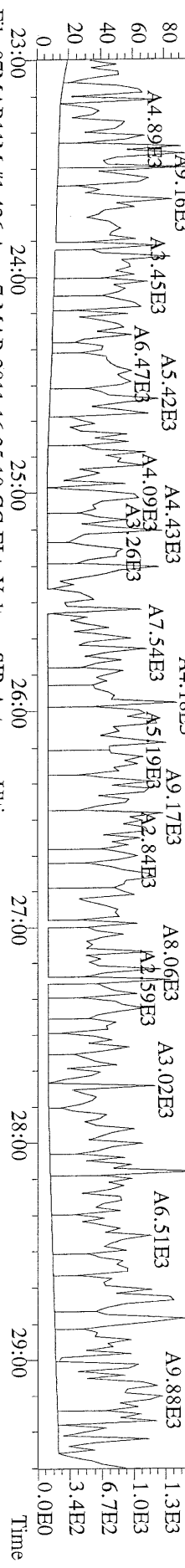
File:07MAR11M1 #1-426 Acq: 7-MAR-2011 16:35:10 GC EI+ Voltage SIR Autospec-Utima  
339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



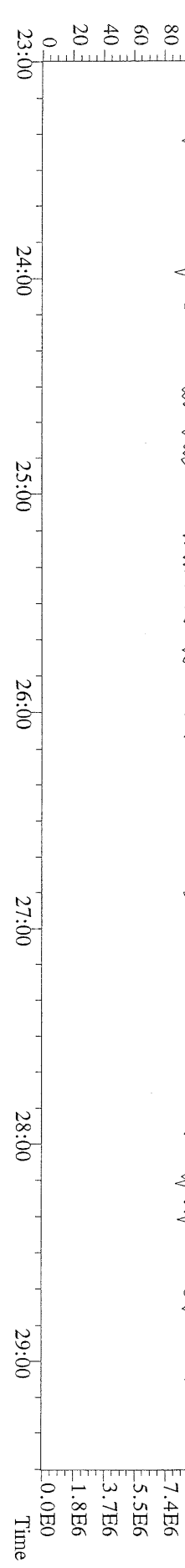
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341.8568 S:6 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



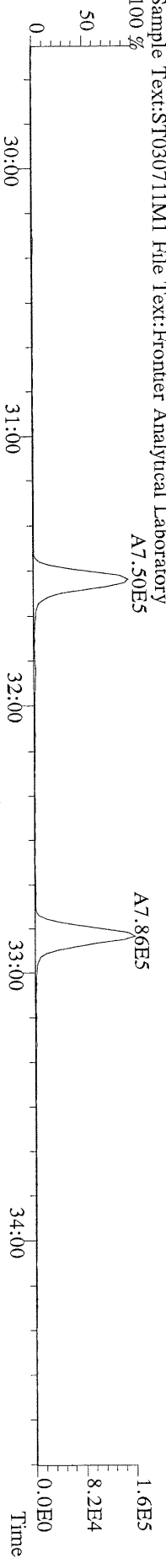
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409.7974 S:6 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



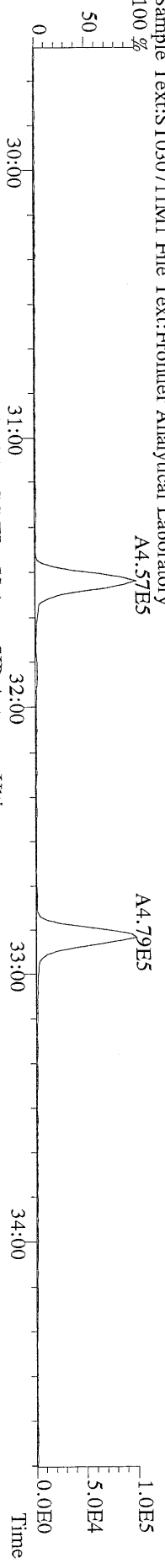
File:07MAR11M1 #1-426 Acq: 7-MAR-2011 16:35:10 GC EI+ Voltage SIR Autospec-Utima  
316.9824 S:6 Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



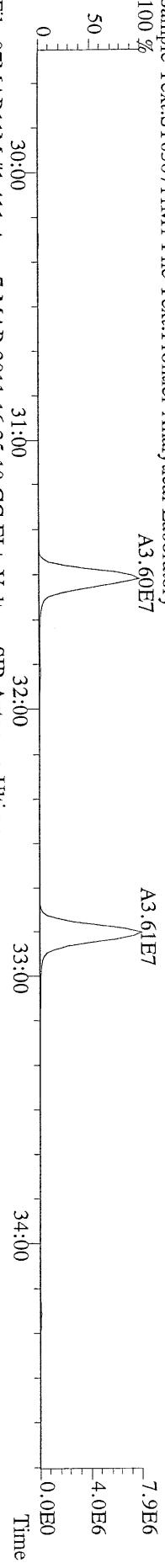
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339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



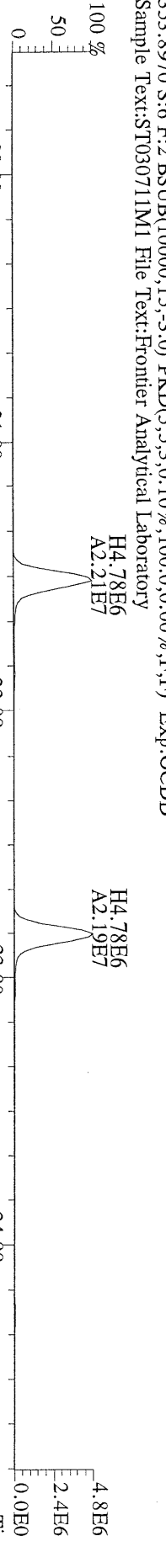
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341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



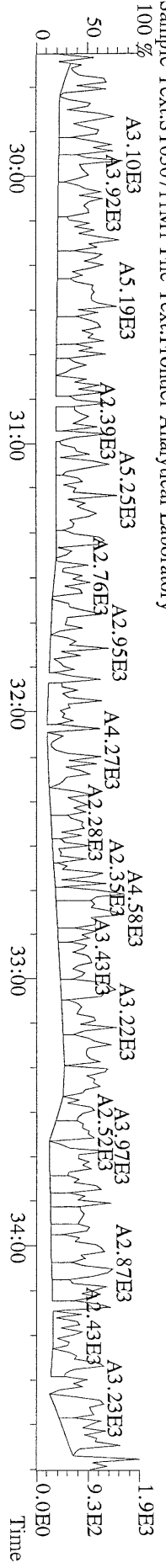
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351.9000 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



File:07MAR11M #1-411 Acq: 7-MAR-2011 16:35:10 GC EI+ Voltage SIR Autospec-Ultima  
353.8970 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
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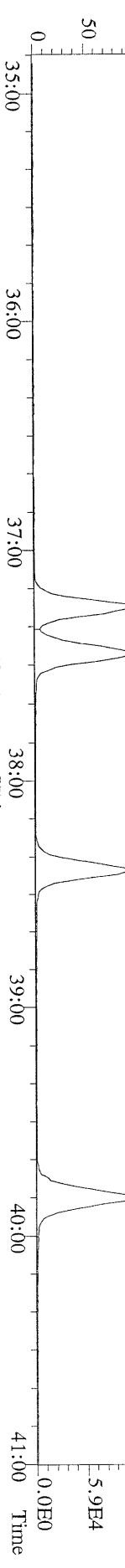


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409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory

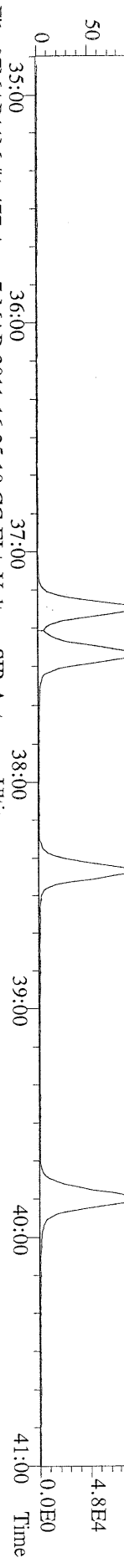




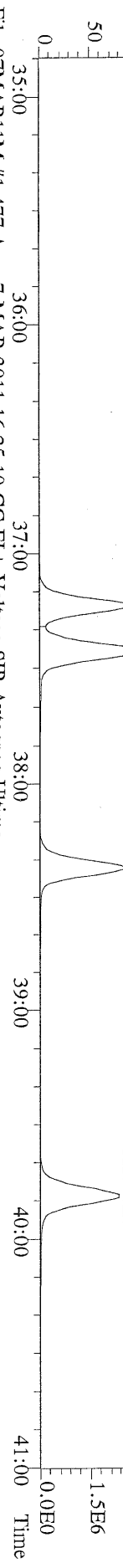
File:07MAR11M #1-477 Acq: 7-MAR-2011 16:35:10 GC EI+ Voltage SIR Autospec-Ultima  
 373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
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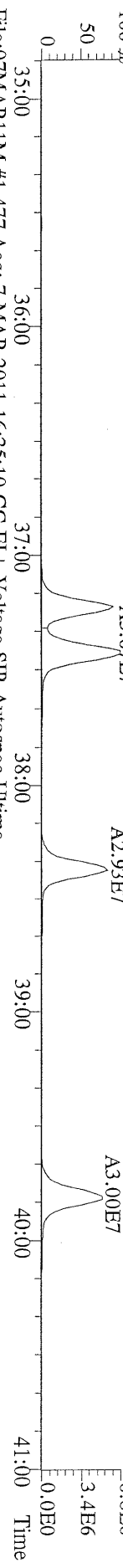
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 375.8178 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
 Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



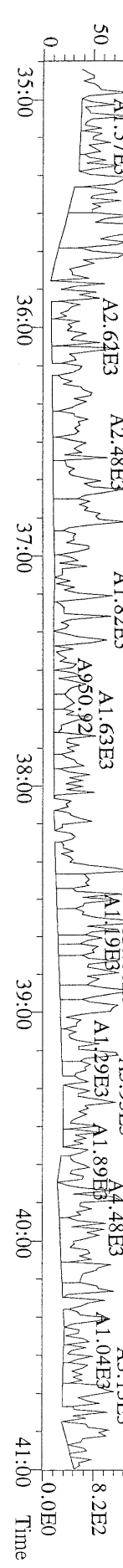
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 383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
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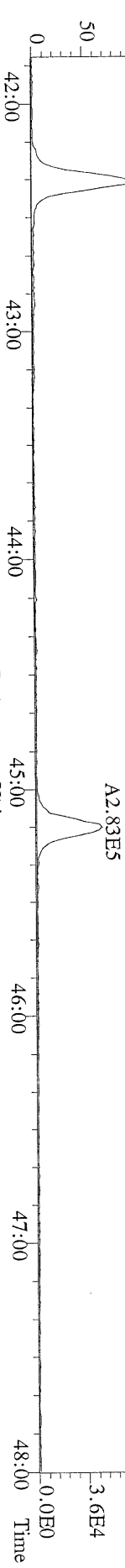
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 445.7555 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
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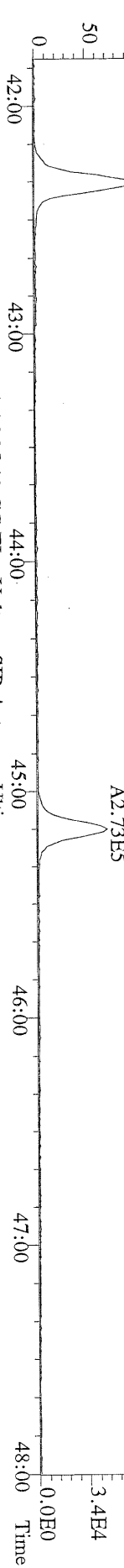
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 Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



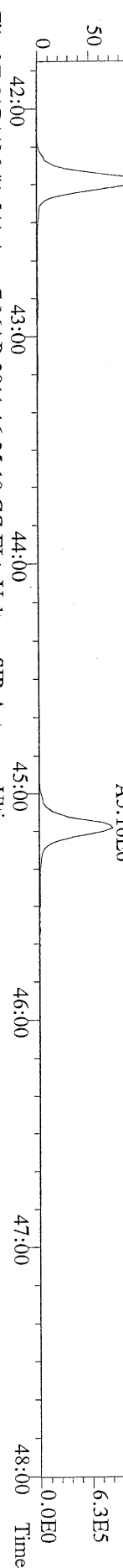
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407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD  
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100 %



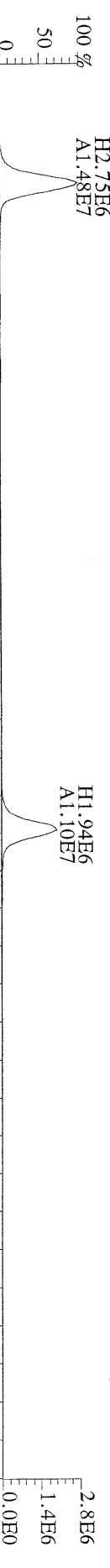
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Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory  
100 %



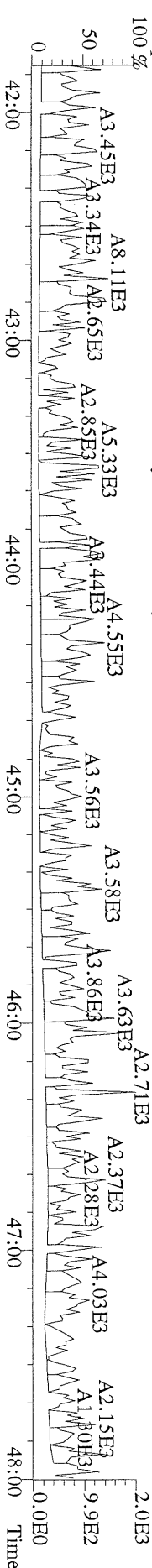
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100 %



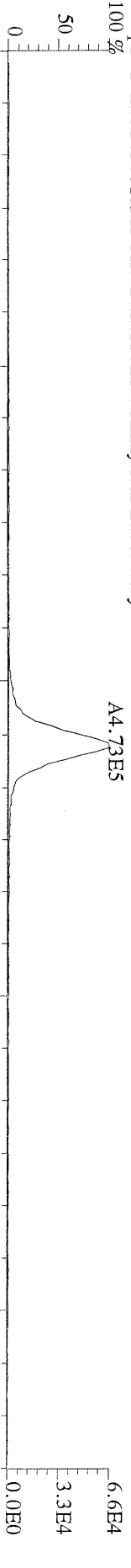
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Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



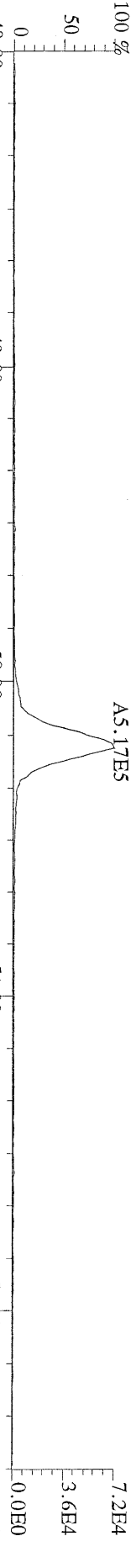
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479.7165 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD  
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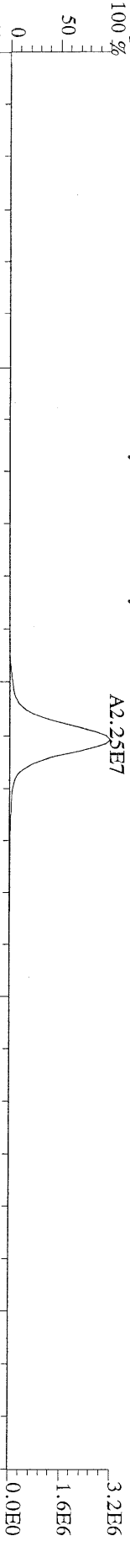
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Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



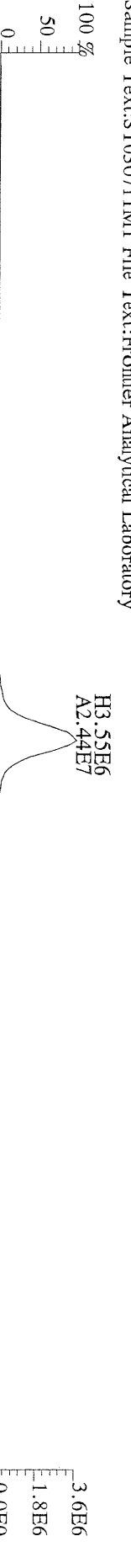
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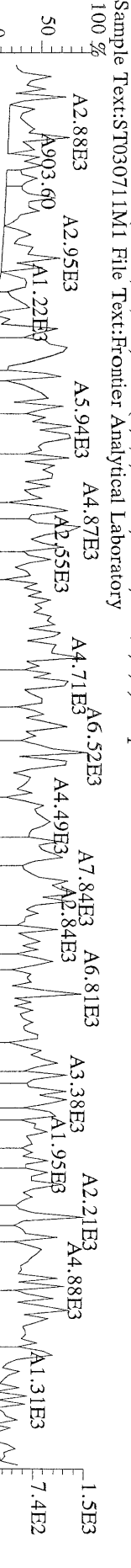
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Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



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455.7801 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
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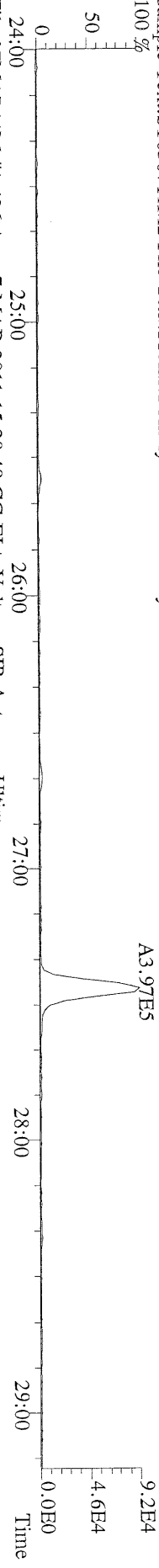


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Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory

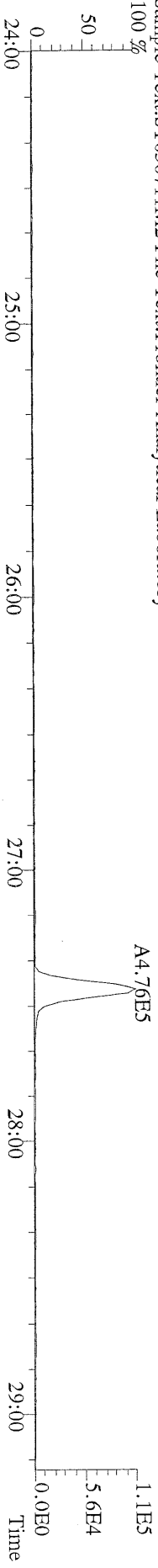


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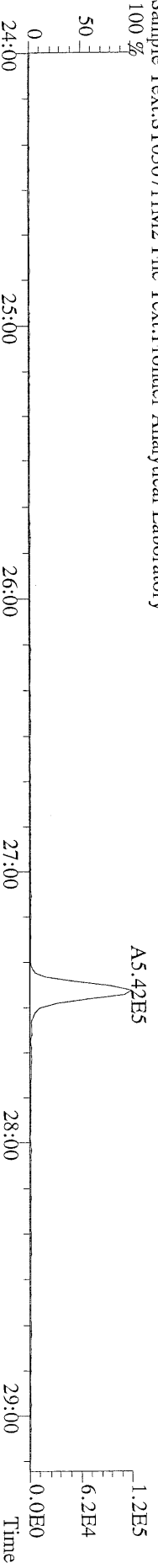
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319.8965 S:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory  
100 %



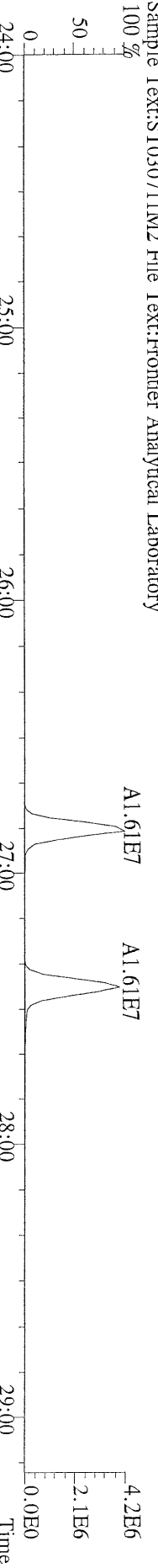
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321.8936 S:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory  
100 %



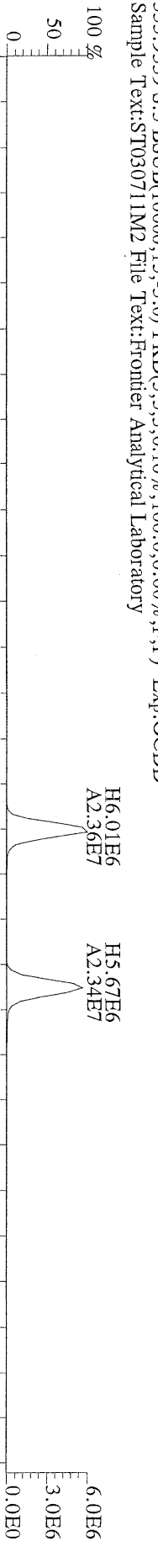
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327.8847 S:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory  
100 %



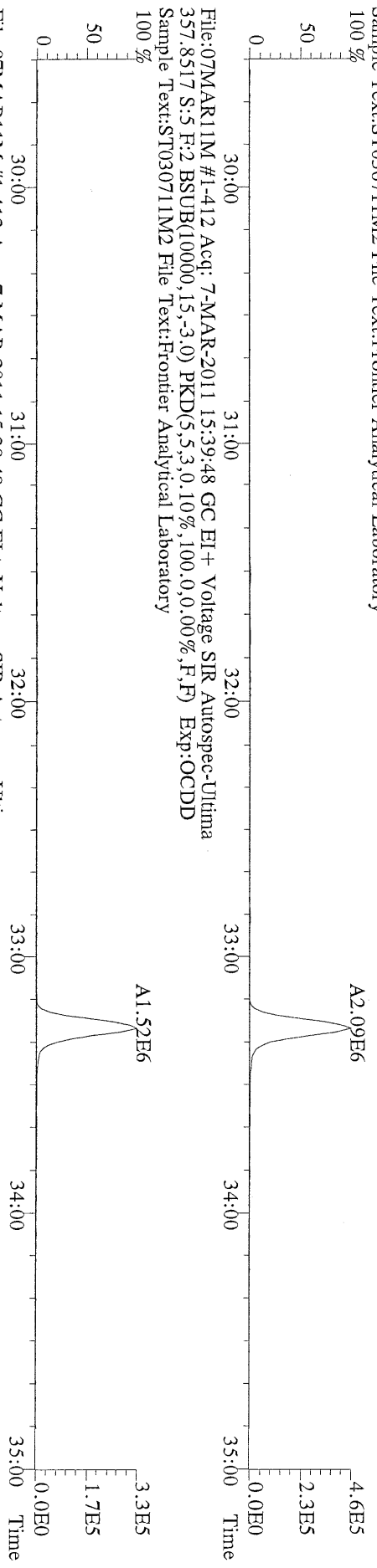
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331.9368 S:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory  
100 %



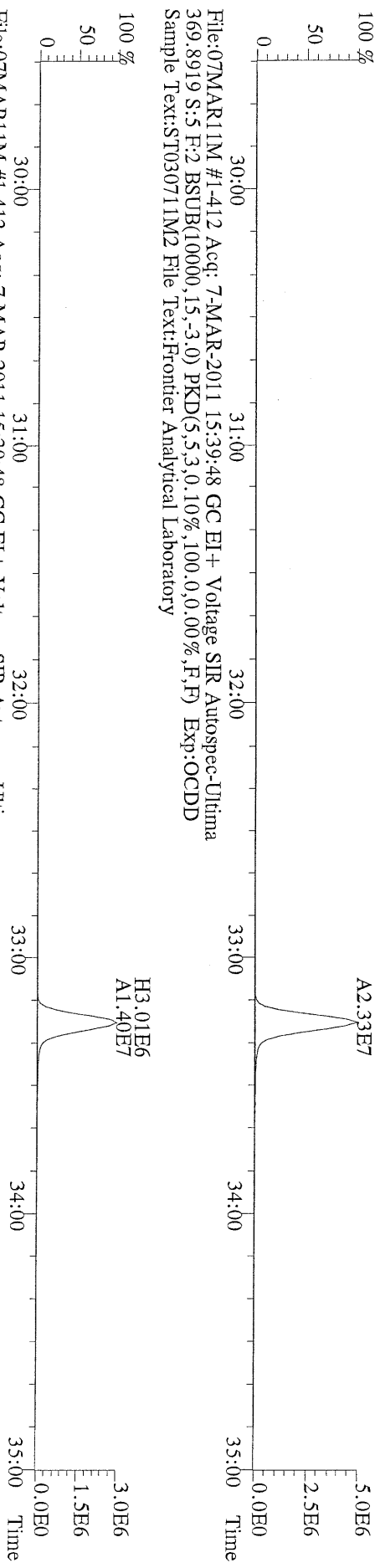
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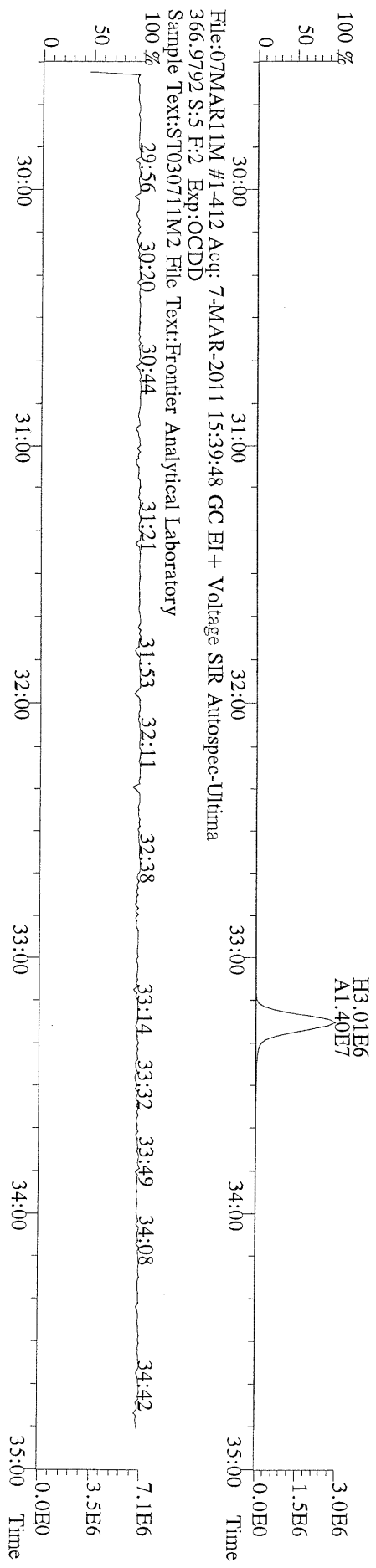
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355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory  
100 %



File:07MARI1M #1-412 Acq: 7-MAR-2011 15:39:48 GC EI+ Voltage SIR Autospec-Ultima  
367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory  
100 %

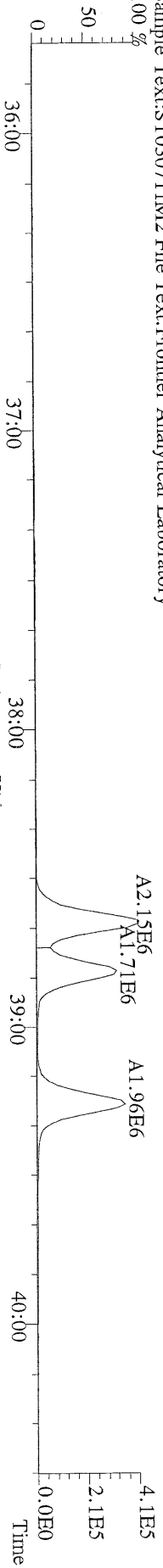


File:07MARI1M #1-412 Acq: 7-MAR-2011 15:39:48 GC EI+ Voltage SIR Autospec-Ultima  
369.8919 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory

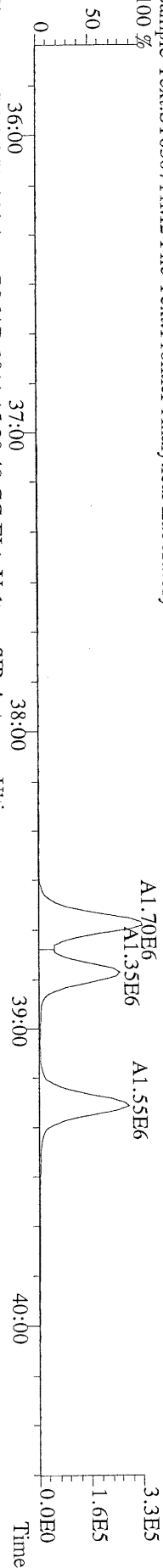


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366.9792 S:5 F:2 Exp:OCDD  
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory

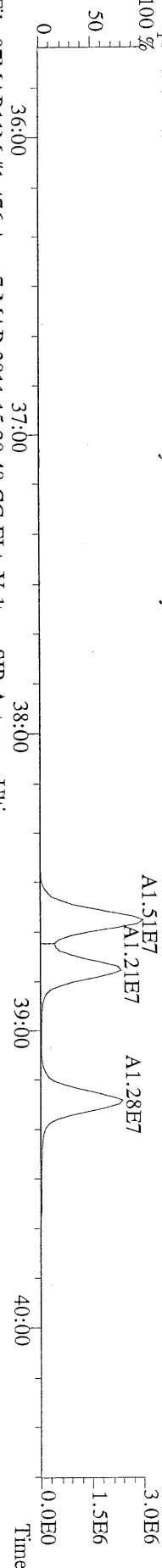
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 389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



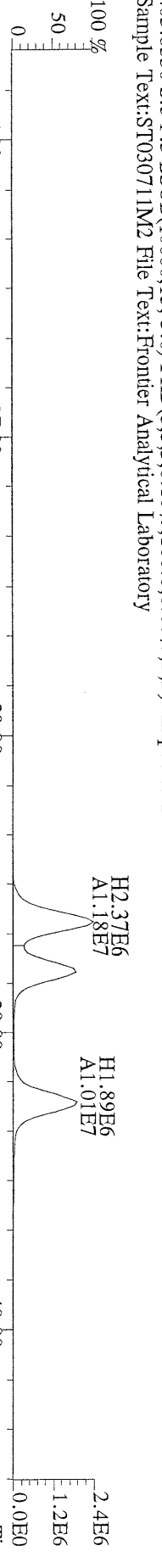
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 391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
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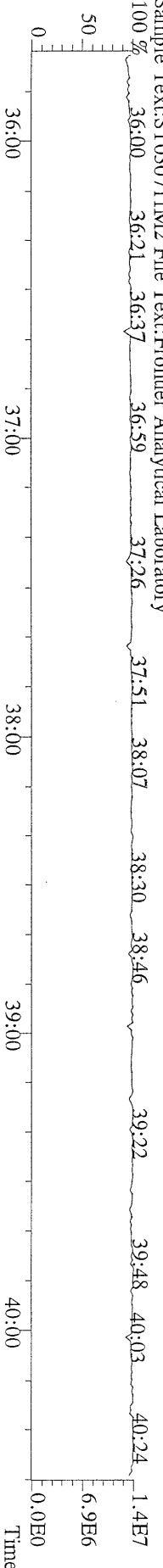
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 401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



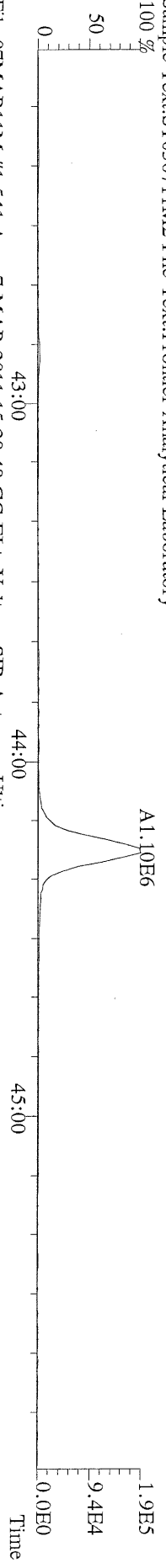
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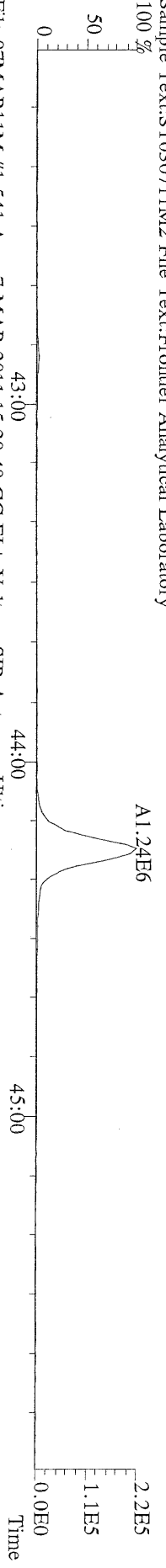
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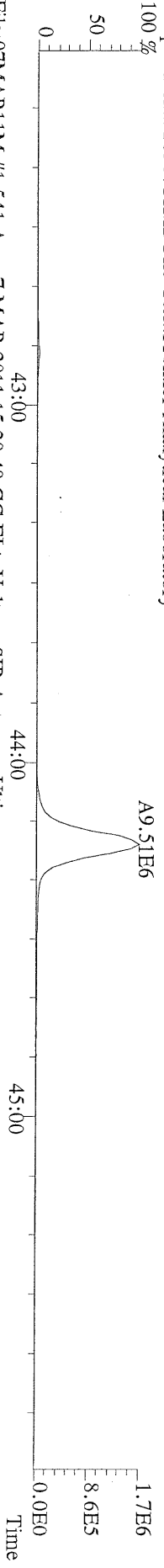
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423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
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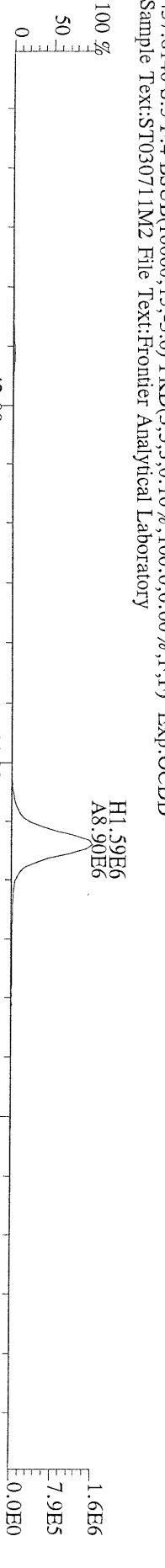
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425.7737 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
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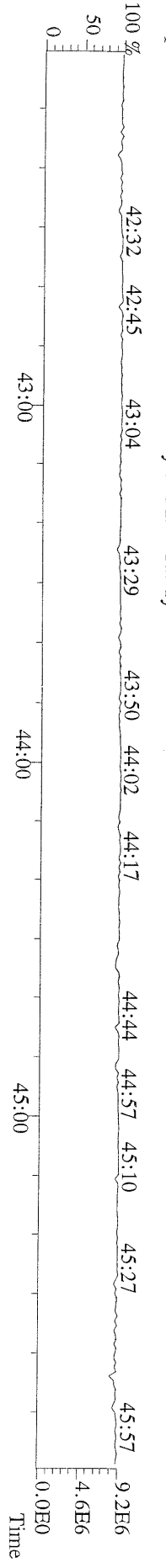
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435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



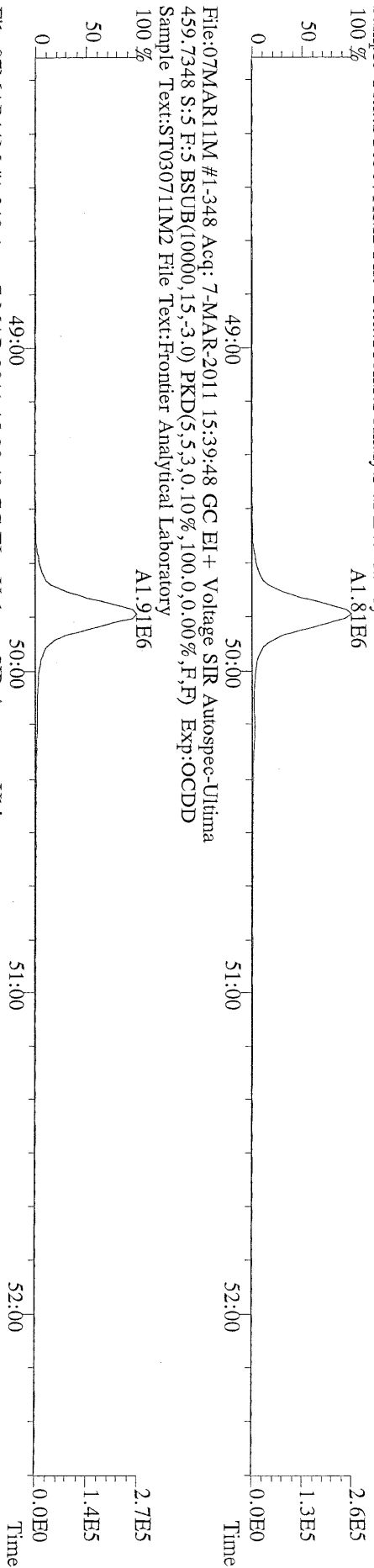
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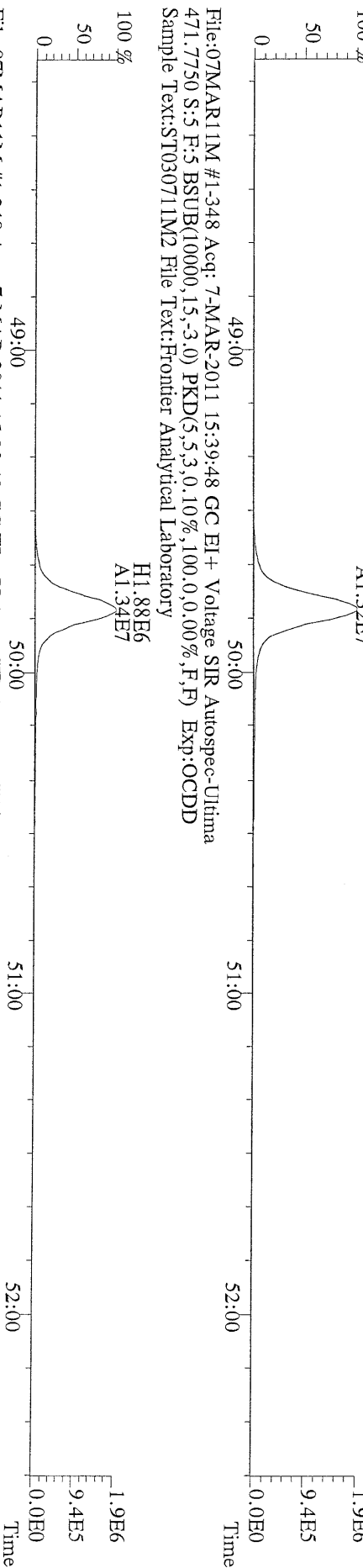
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430.9728 S:5 F:4 Exp:OCDD  
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



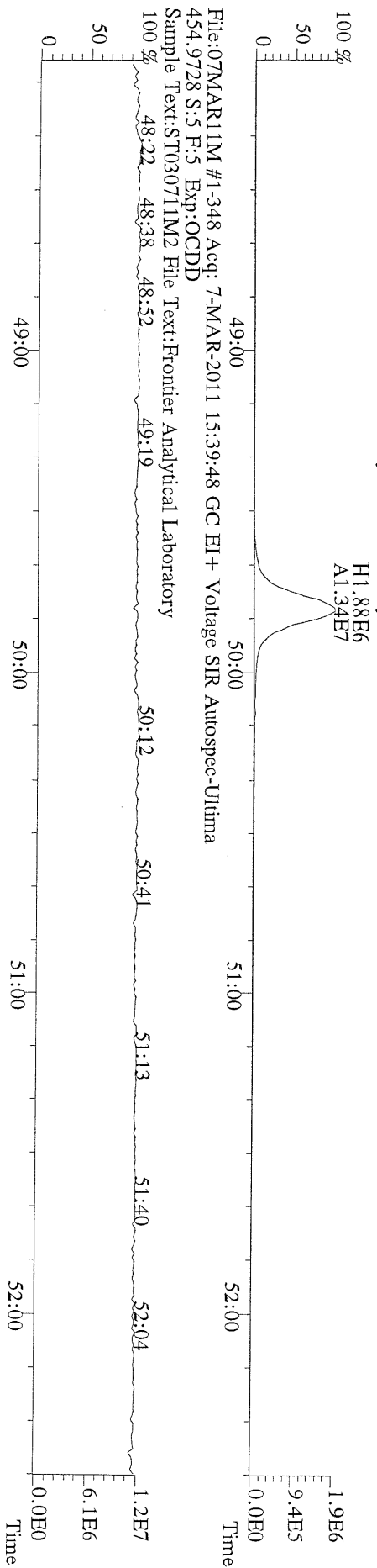
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457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
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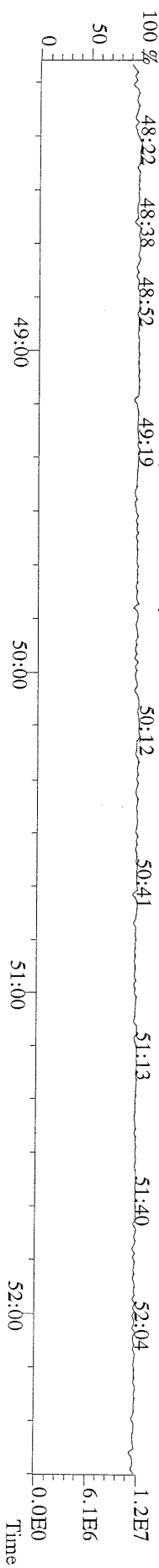
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469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



File:07MAR11M #1-348 Acq: 7-MAR-2011 15:39:48 GC EI+ Voltage SIR Autospec-Ultima  
471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
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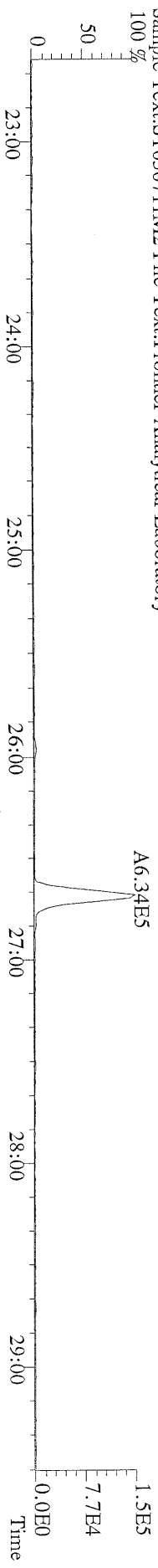


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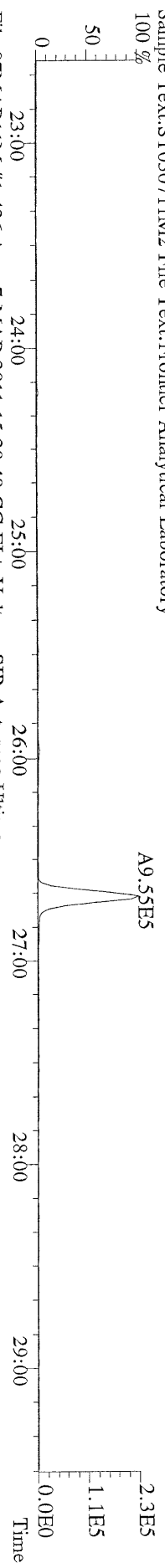




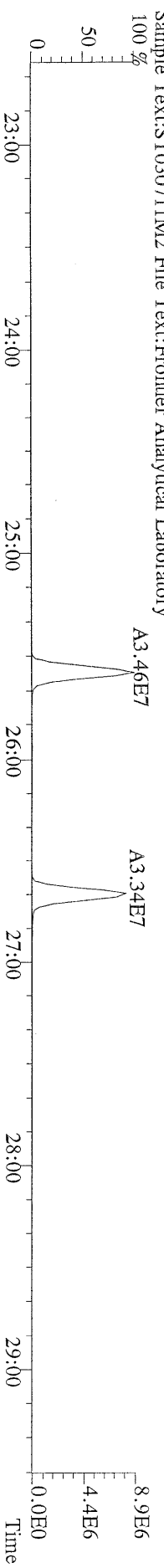
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 303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



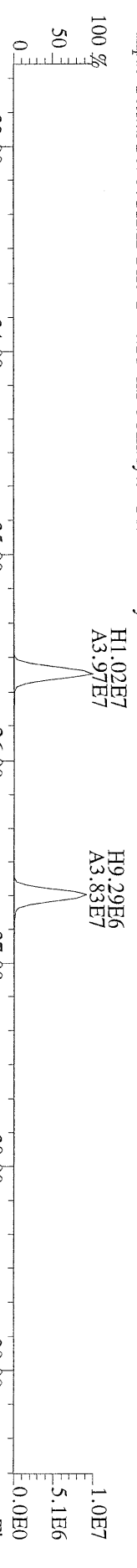
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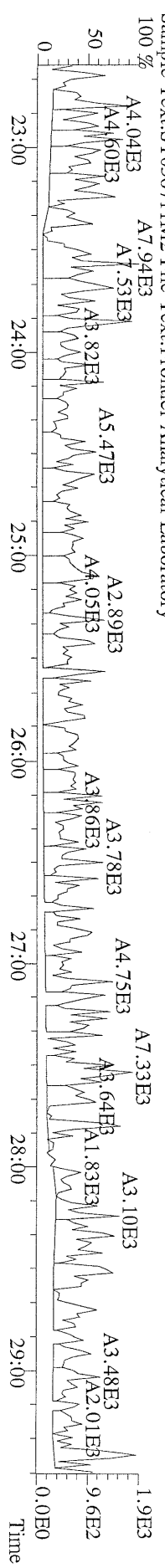
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 315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



File:07MAR11M #1-426 Acq: 7-MAR-2011 15:39:48 GC EI+ Voltage SIR Autospec-Ultima  
 317.9389 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
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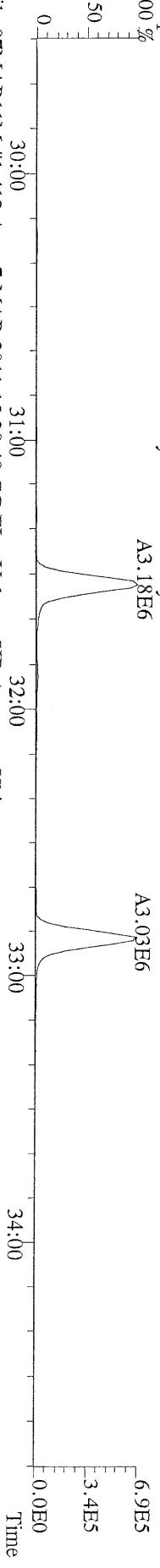


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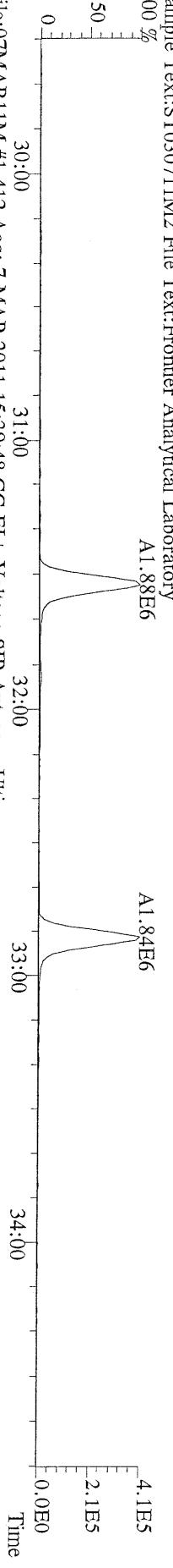




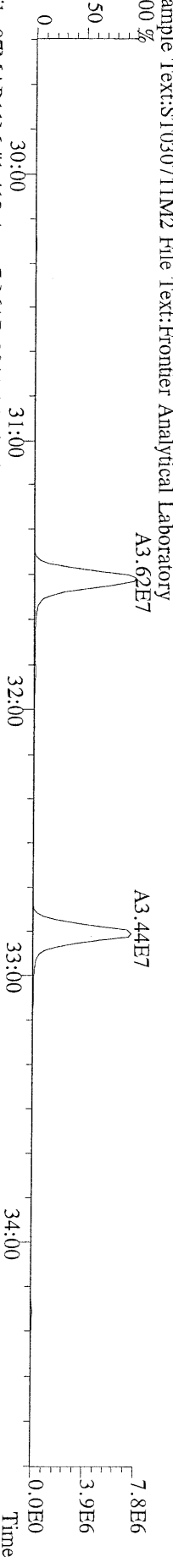
File:07MARI1M #1-412 Acq: 7-MAR-2011 15:39:48 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD  
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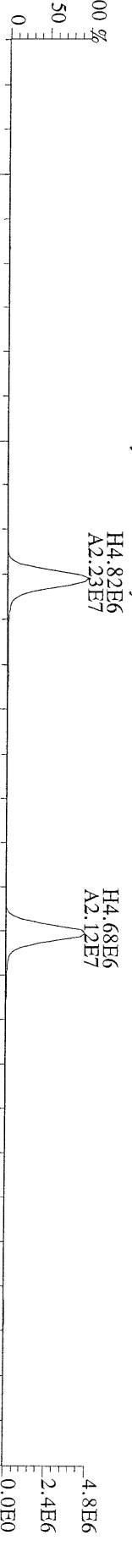
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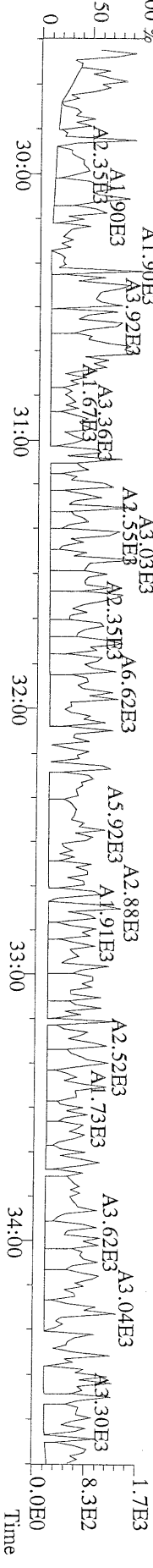
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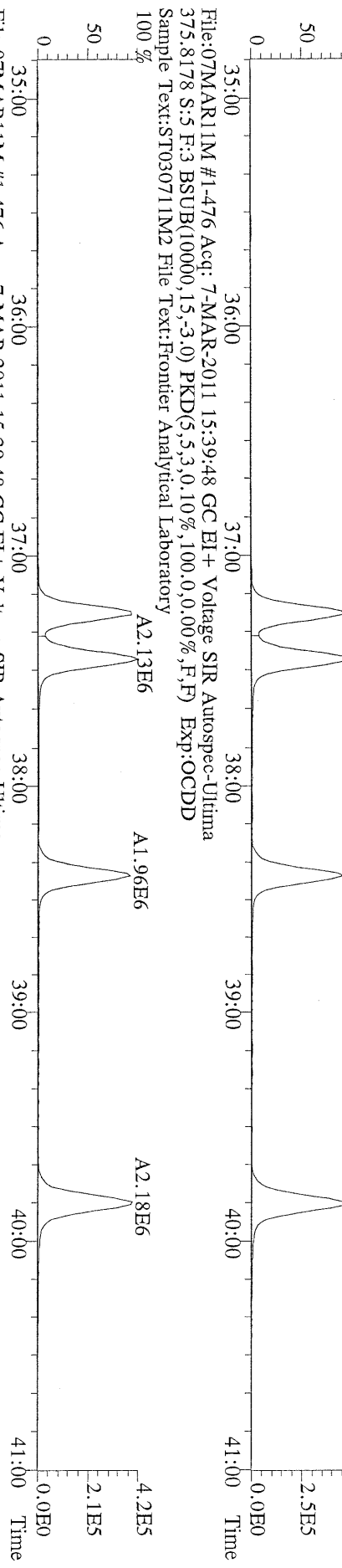
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 353.8970 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD  
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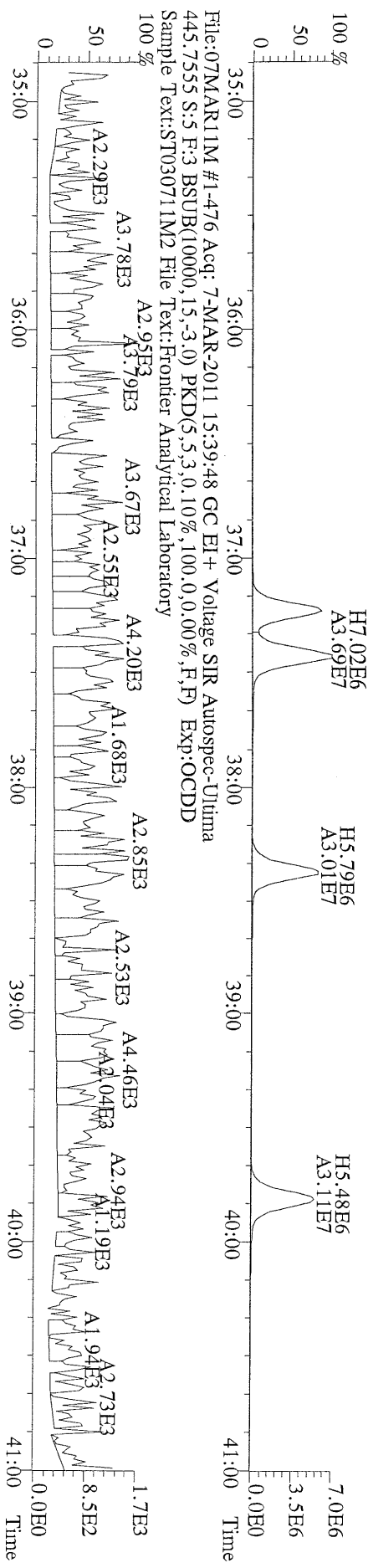
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 Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



File:07MARI1M #1-476 Acq: 7-MAR-2011 15:39:48 GC EI+ Voltage SIR Autospec-Ultima  
 373.8207 S:5 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD  
 Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



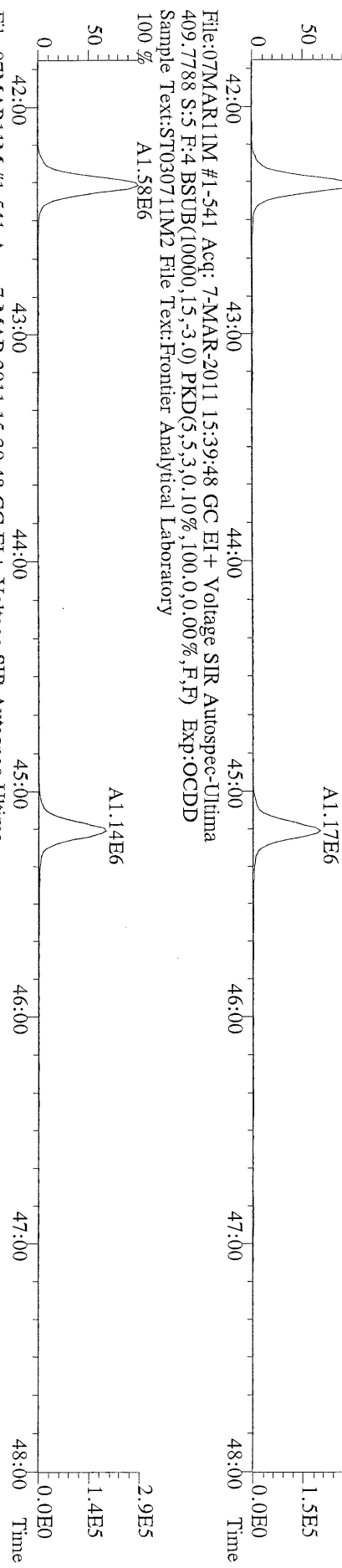
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 385.8610 S:5 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD  
 Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



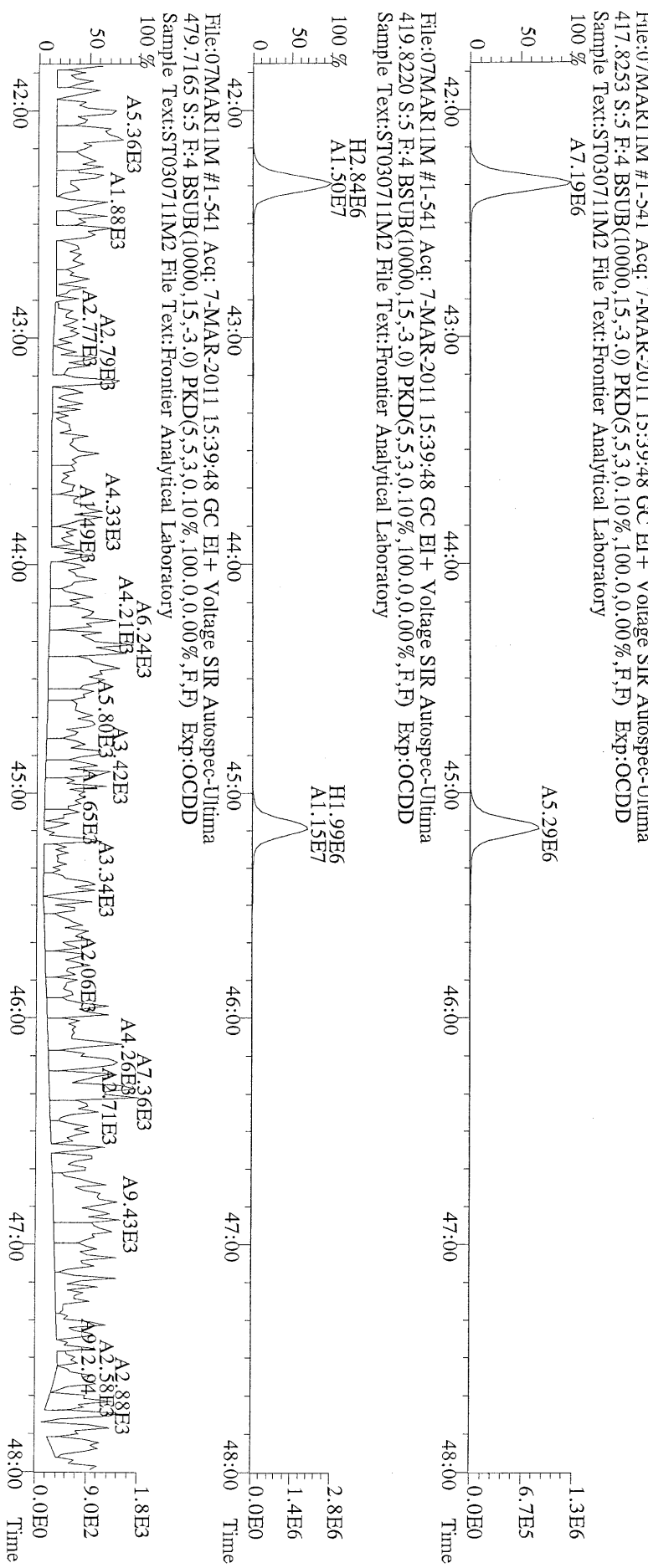
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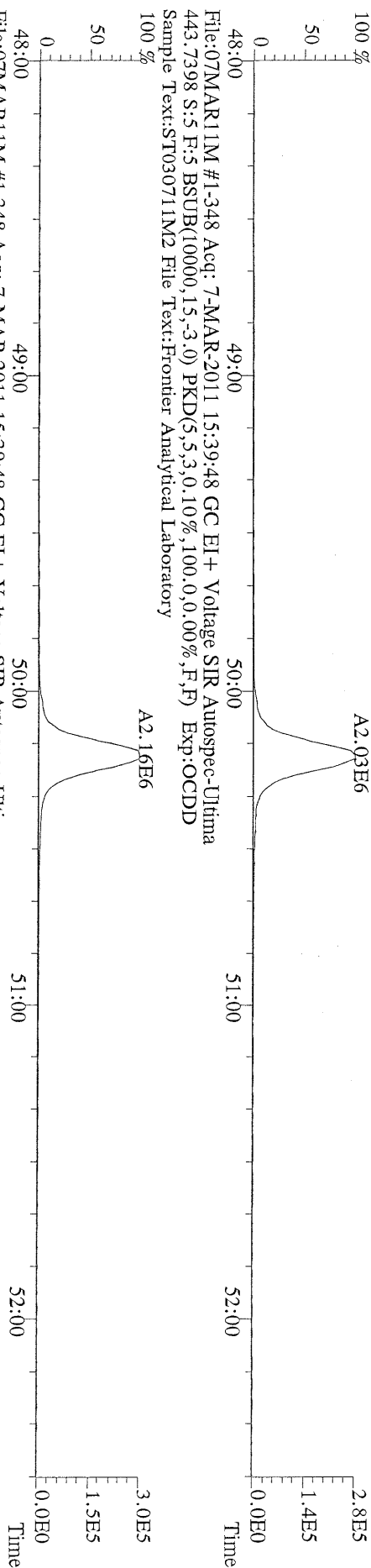
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Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



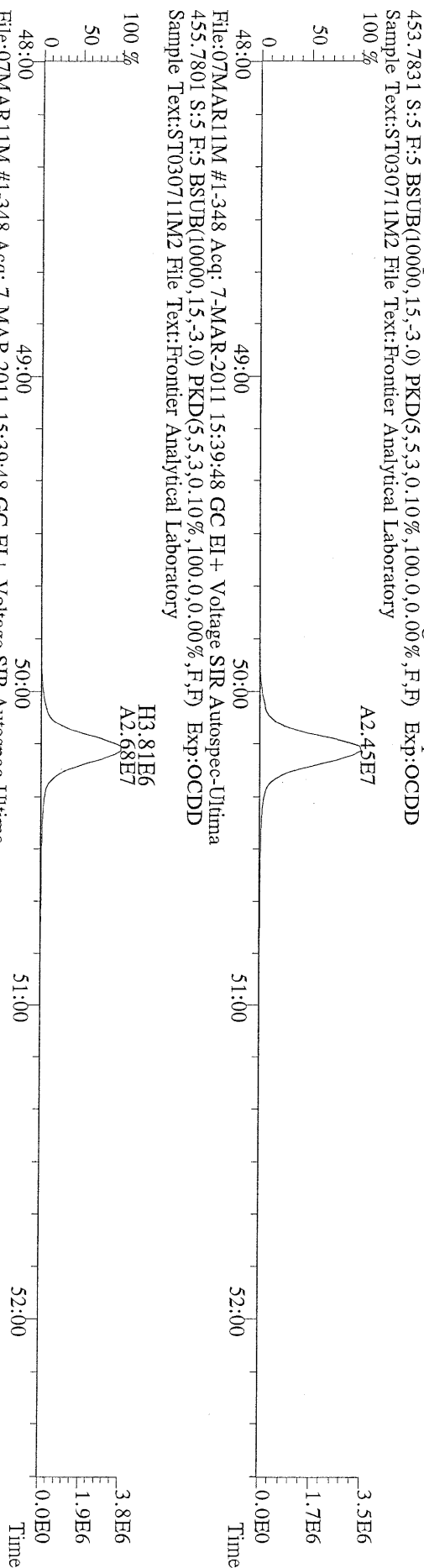
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Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



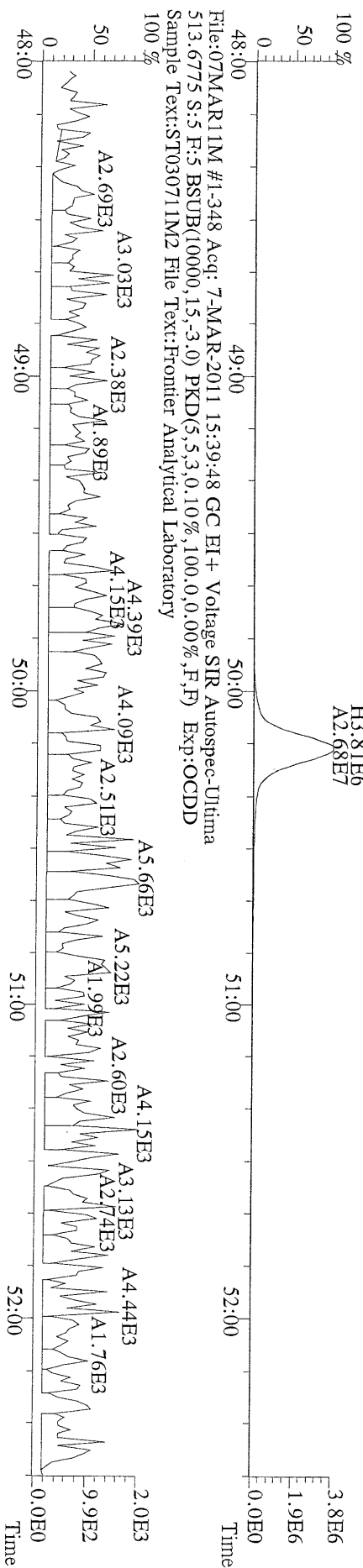
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441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



File:07MAR11M #1-348 Acq: 7-MAR-2011 15:39:48 GC EI+ Voltage SIR Autospec-Utima  
453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory

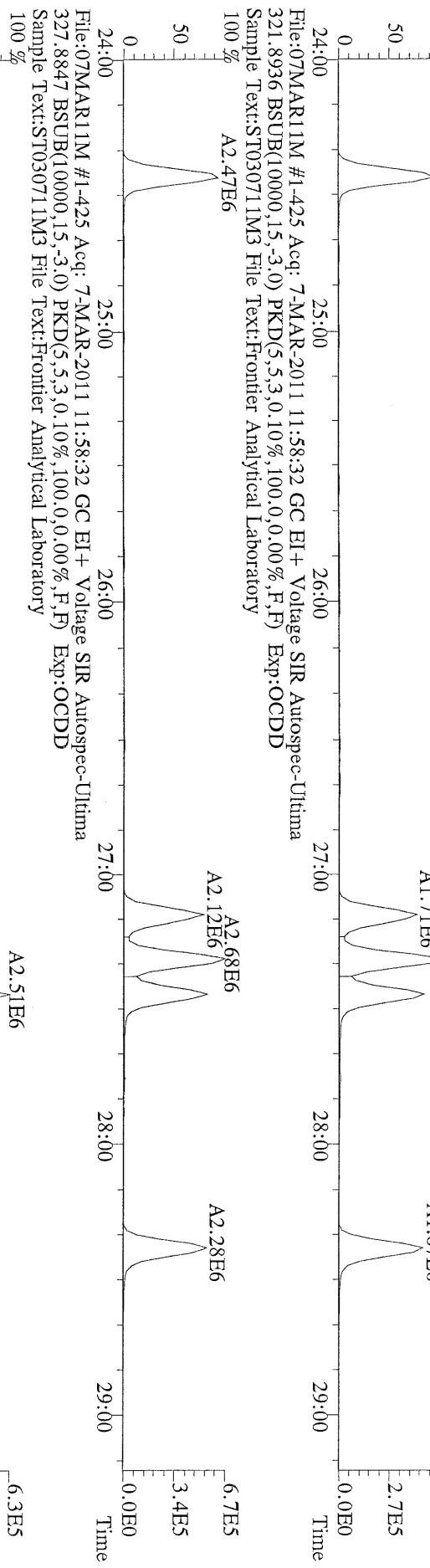


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Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory

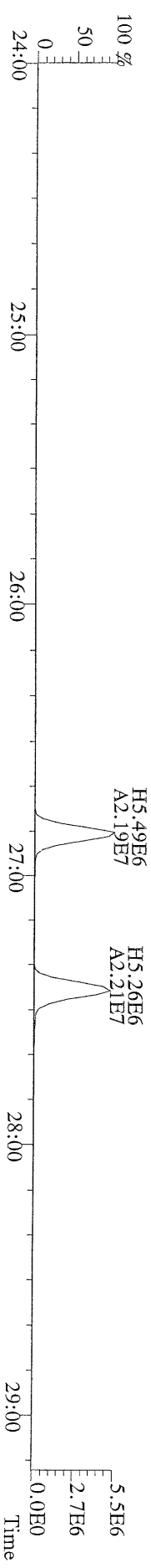


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513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory

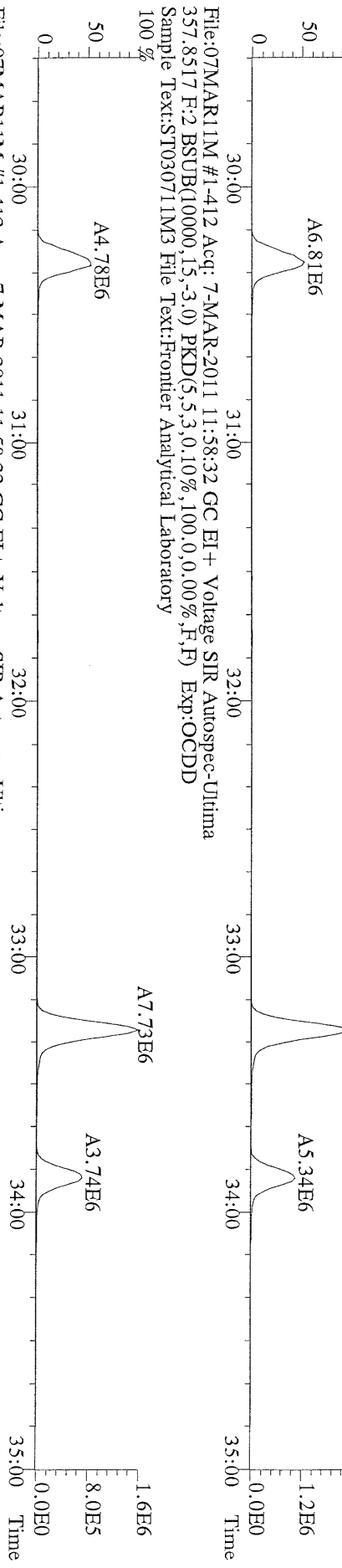
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319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory  
100 %



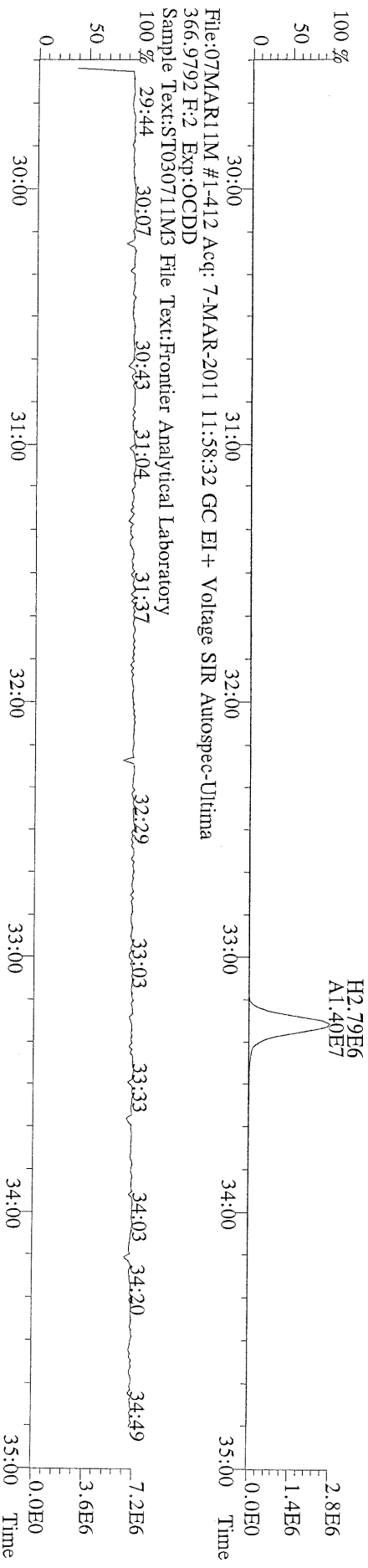
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331.9368 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory  
100 %



File:07TMARI1M #1-412 Acq: 7-MAR-2011 11:58:32 GC EI+ Voltage SIR Autospec-Ultima  
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory

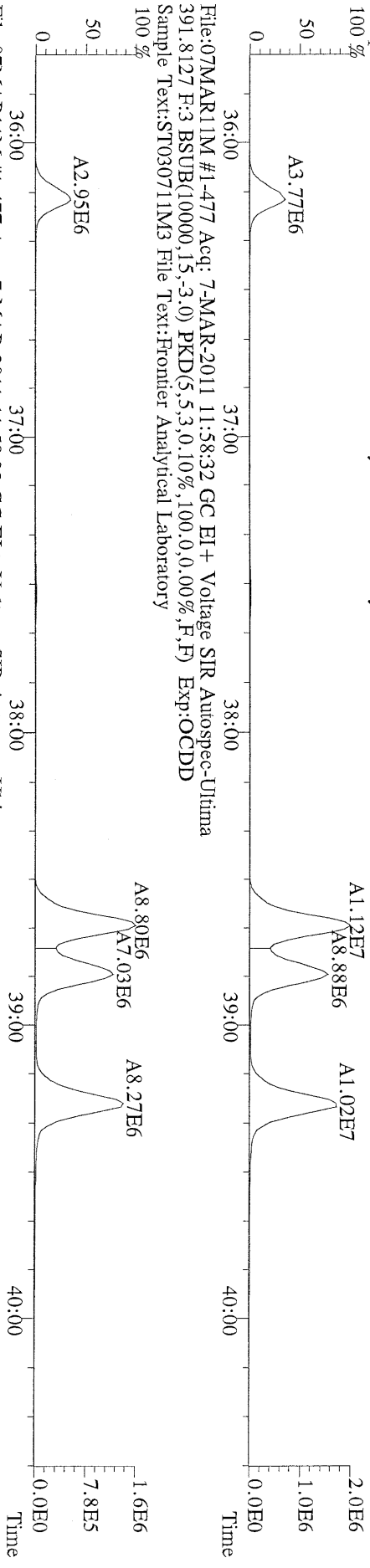


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367.8949 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory

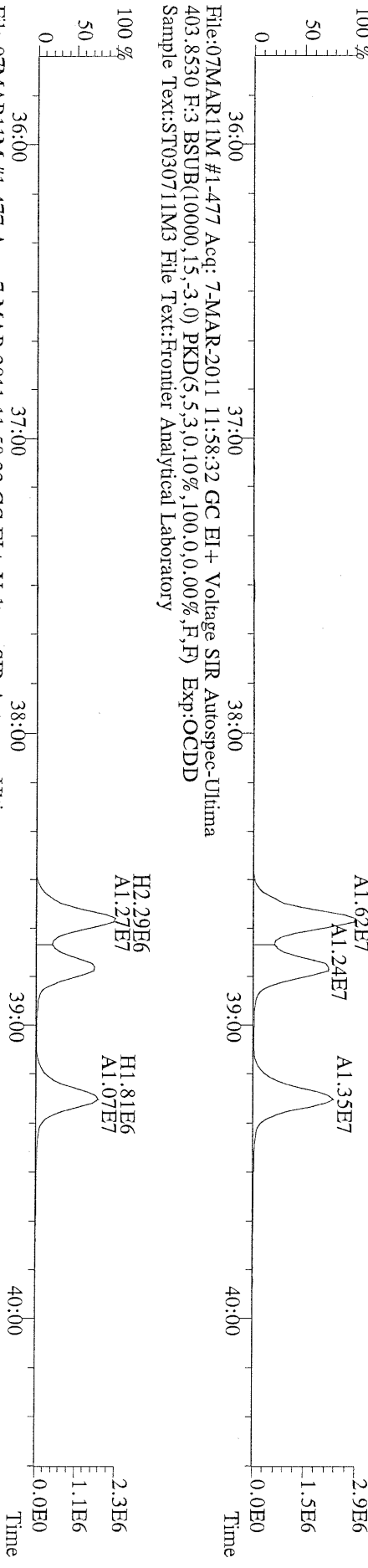




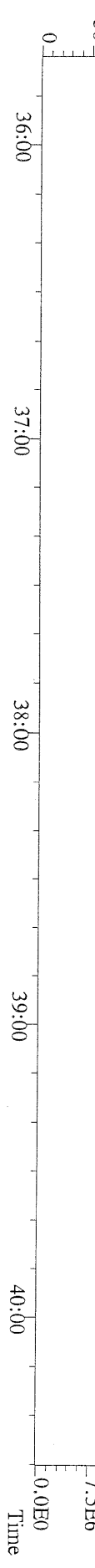
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Sample Text:ST03071IM3 File Text:Frontier Analytical Laboratory



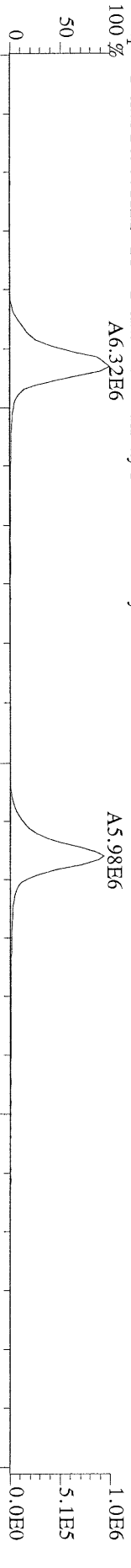
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401.8559 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST03071IM3 File Text:Frontier Analytical Laboratory



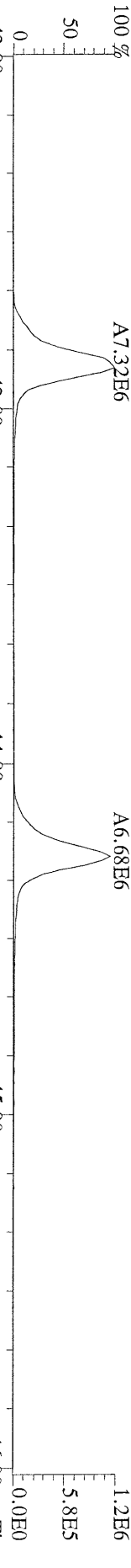
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Sample Text:ST03071IM3 File Text:Frontier Analytical Laboratory



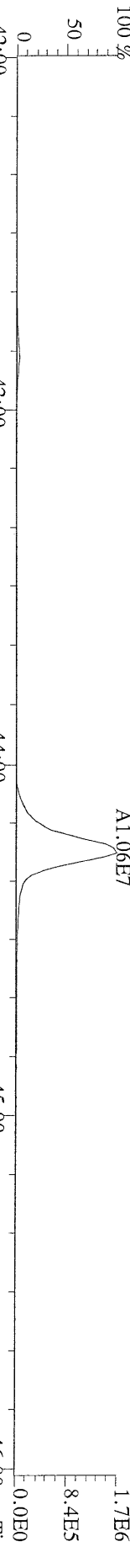
File:07MARI1M #1-541 Acq: 7-MAR-2011 11:58:32 GC EI+ Voltage SIR Autospec-Ultima  
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



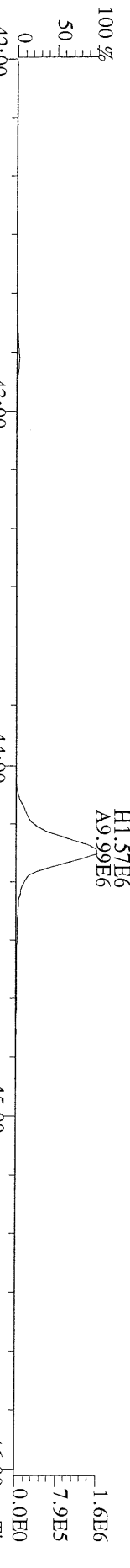
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425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



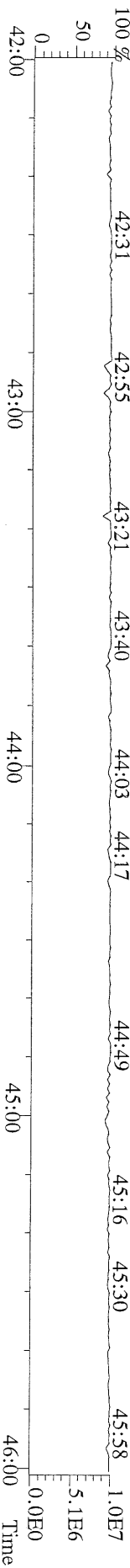
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435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



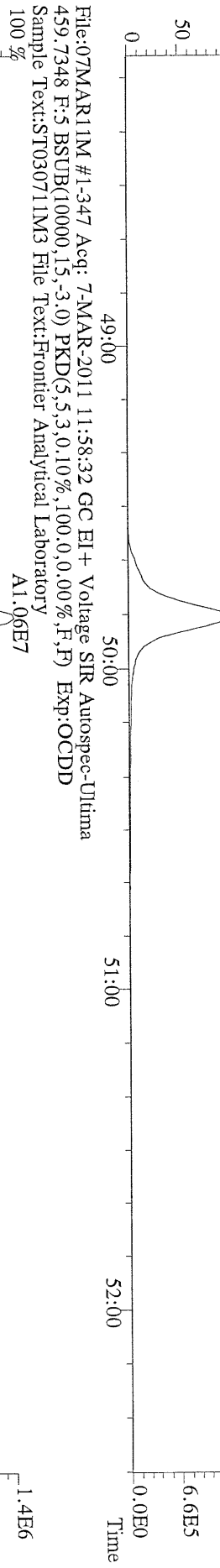
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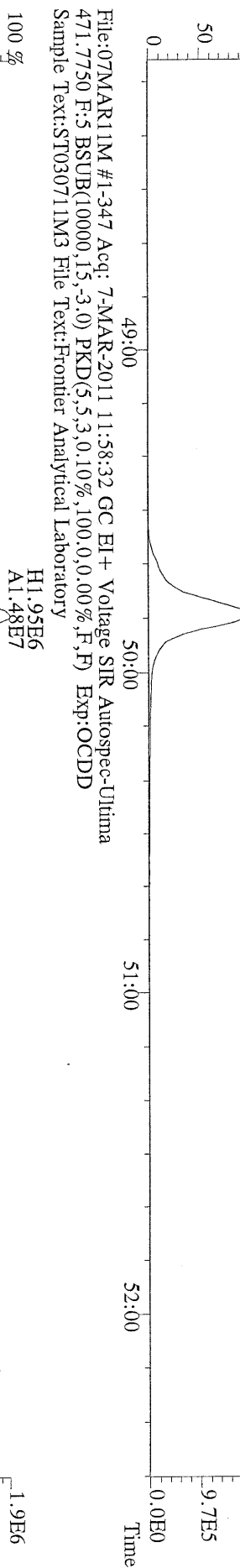
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Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



File:07MAR11M #1-347 Acq: 7-MAR-2011 11:58:32 GC EI+ Voltage SIR Autospec-Ultima  
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory  
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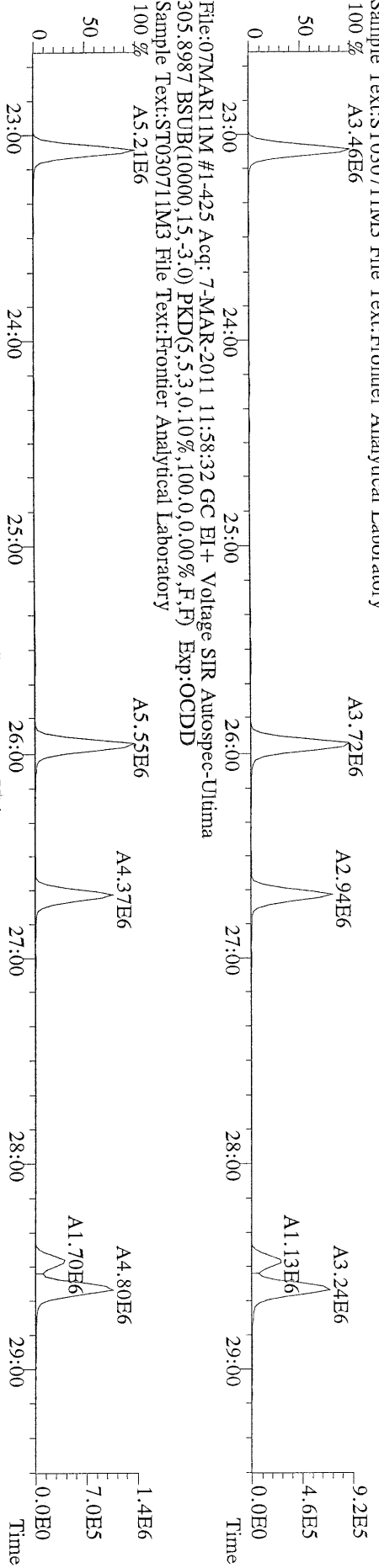
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Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory  
100 % A1.49E7



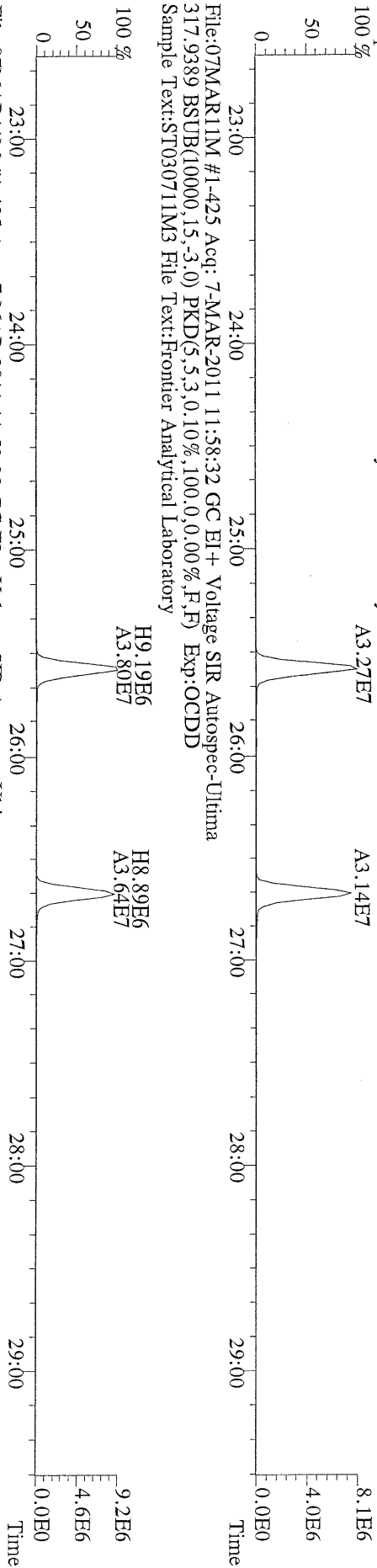
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454.9728 F:5 Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory  
100 % A1.48E7



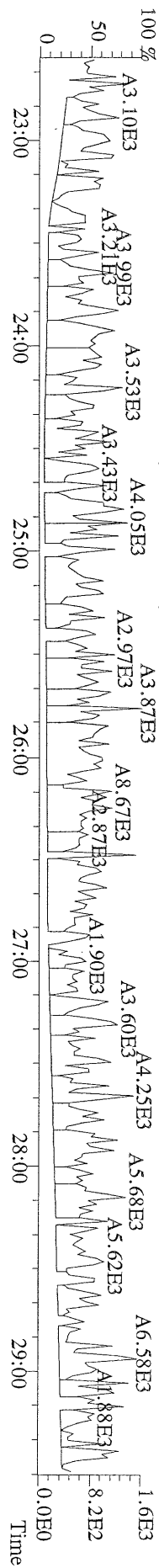
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303.9016 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
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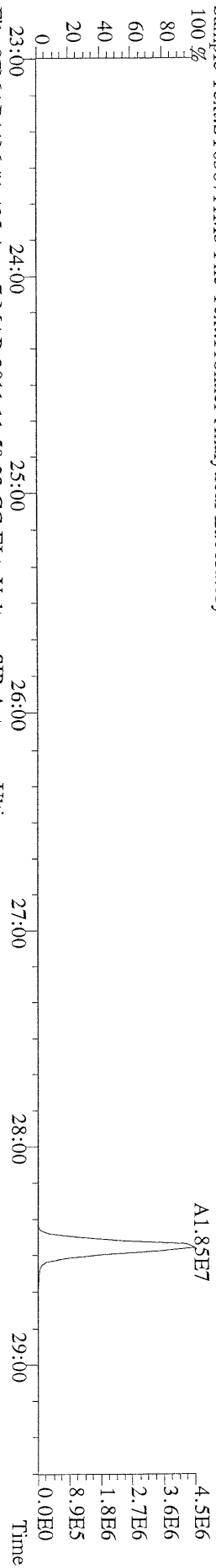
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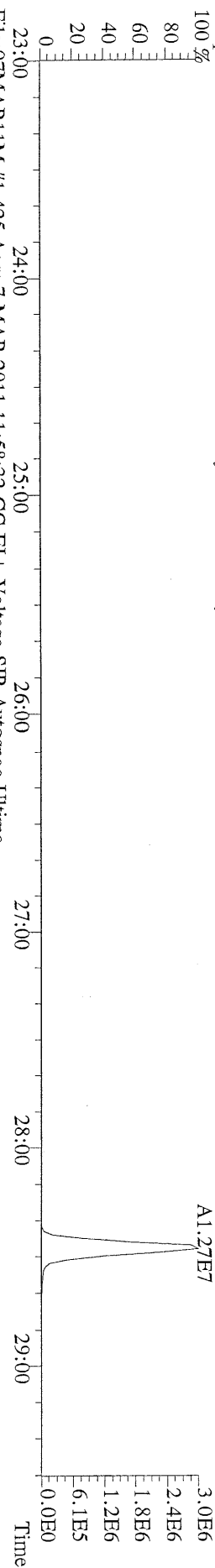
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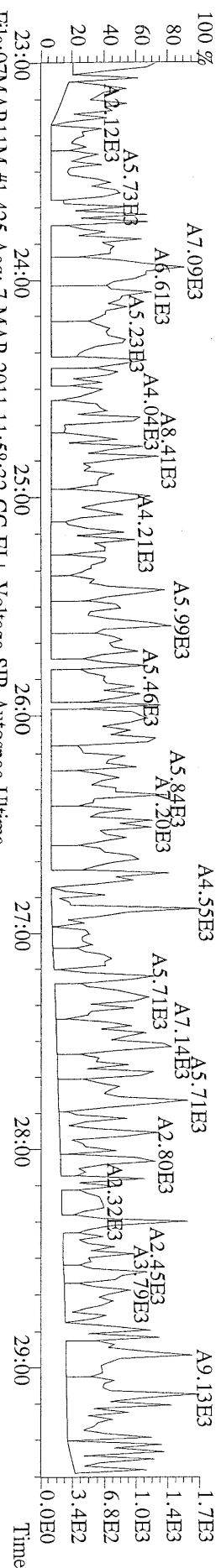
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 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



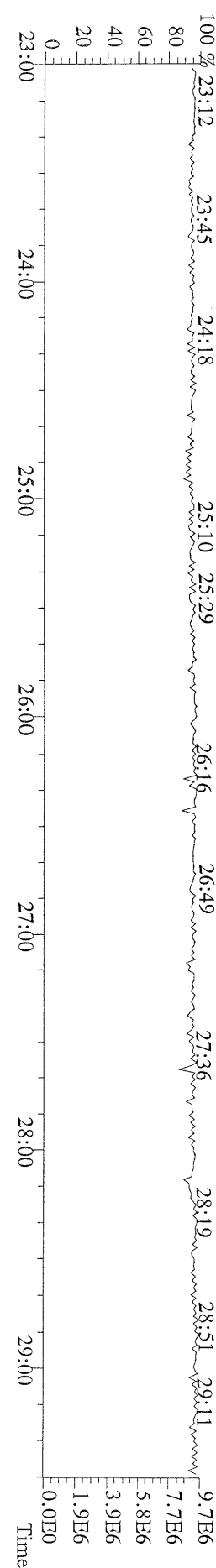
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 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



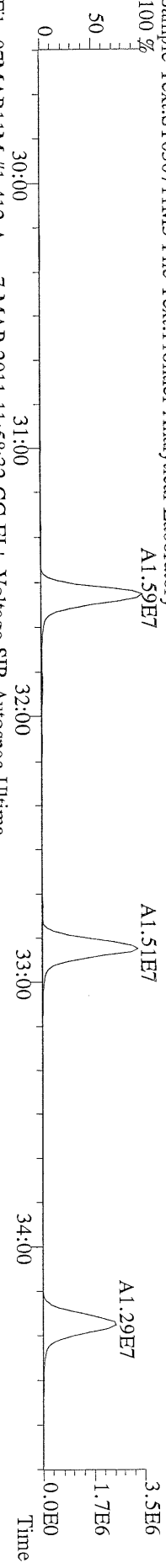
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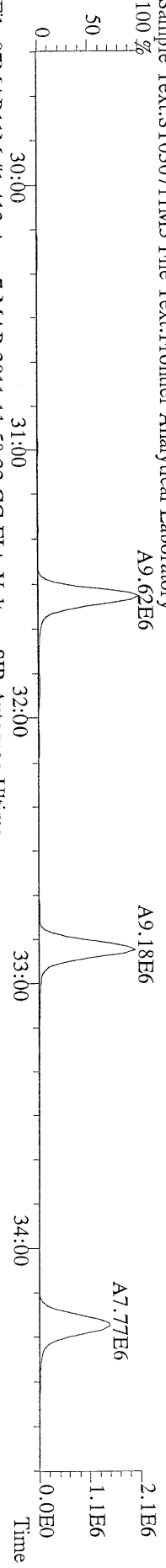
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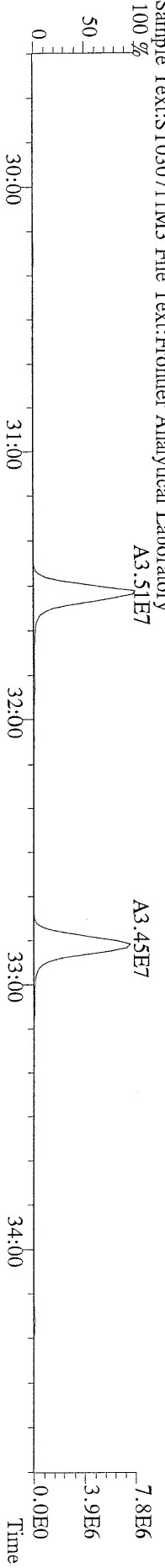
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Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



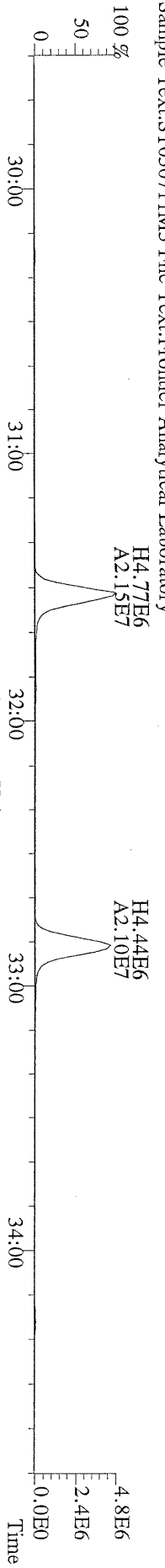
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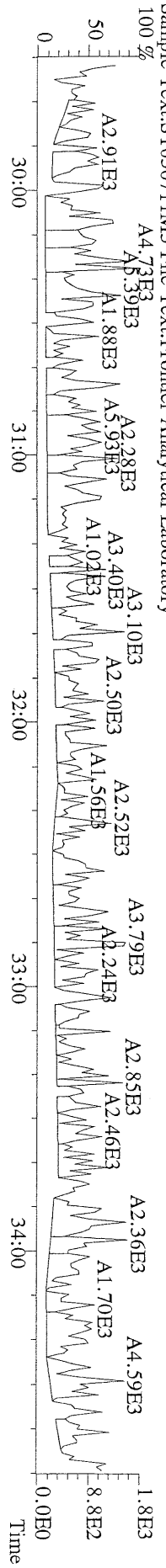
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Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



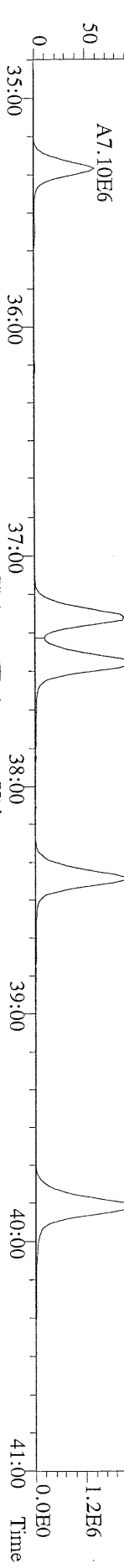
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Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



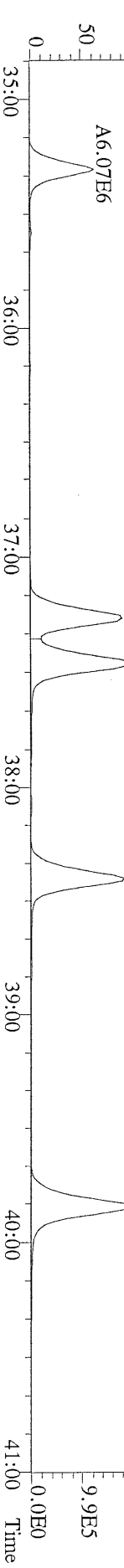
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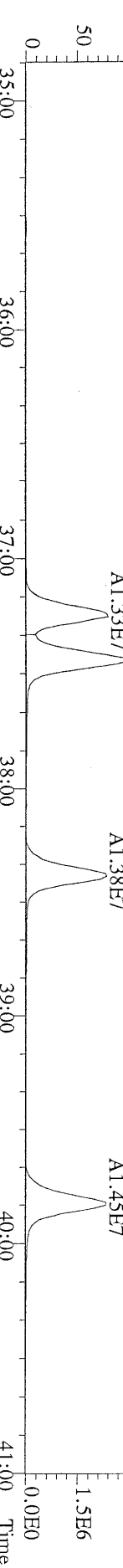
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 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



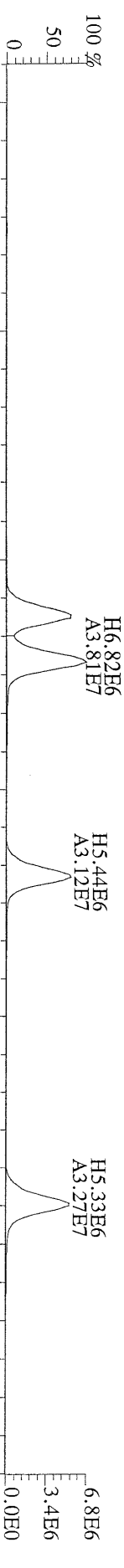
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 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



File:07MAR11M #1-477 Acq: 7-MAR-2011 11:58:32 GC EI+ Voltage SIR Autospec-Ultima  
 383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



File:07MAR11M #1-477 Acq: 7-MAR-2011 11:58:32 GC EI+ Voltage SIR Autospec-Ultima  
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 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



File:07MAR11M #1-477 Acq: 7-MAR-2011 11:58:32 GC EI+ Voltage SIR Autospec-Ultima  
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 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory

