



6546
0.0c

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-Snyder
 Project ID: Lora Lakes Apts RI
 ARI PM: Sue Dunnihoo
 Phone: 206-695-6207
 Fax: 206-695-6201

Analytical Protocol: In-house
 Special Instructions:

Requested Turn Around:
 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, not withstanding 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
11-1419-SF76B	MW-05-012111	01/21/11 10:10	Groundwater	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					
11-1421-SF76D	MW-02-012111	01/21/11 12:50	Groundwater	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					
11-1422-SF76E	MW-09-012111	01/21/11 14:30	Groundwater	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					
11-1423-SF76F	MW-08-012111	01/21/11 14:55	Groundwater	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					
11-1424-SF76G	MW-01-012111	01/21/11 16:20	Groundwater	3	Dioxin/Furans 1613(Sub)
Special Instructions: None					
11-1425-SF76H	MW-01-012111-D	01/21/11 16:40	Groundwater	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					

Both recvd broken.

Sue to Kathy: Sending backup sample. L4 DATA
 & Excel QDD. 1/25/11
 17 832 695 01 5146 3229
 17 832 695 01 5092 8630

Carrier	UPS	Airbill	17 832 695 01 4973 5243	Date	1/24/11
Relinquished by	Mikka Malumkin	Company	ARI	Date	1/24/11
Received by	Matt	Company	FAL	Date	1/25/11
				Time	1515
				Time	1010

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

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

6546
Doc

Analytical Protocol: In-house
Special Instructions:

Requested Turn Around:
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, not withstanding 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
11-1419-SF76B	MW-05-012111	01/21/11 10:10	Groundwater	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					
11-1421-SF76D	MW-02-012111	01/21/11 12:50	Groundwater	2	Dioxin/Furans 1613(Sub)
Special Instructions: None 2 additional bottles sent D9, D13					
11-1422-SF76E	MW-09-012111	01/21/11 14:30	Groundwater	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					
11-1423-SF76F	MW-08-012111	01/21/11 14:55	Groundwater	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					
11-1424-SF76G	MW-01-012111	01/21/11 16:20	Groundwater	3	Dioxin/Furans 1613(Sub)
Special Instructions: None					
11-1425-SF76H	MW-01-012111-D	01/21/11 16:40	Groundwater	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					

Carrier UPS	Airbill 178326ASIS51444107	Date 1/25/11
Relinquished by <i>[Signature]</i>	Company ARI	Date 1/25/11
Received by Kathy Zep	Company Frontier	Date 1-26-11
		Time 1230
		Time 857

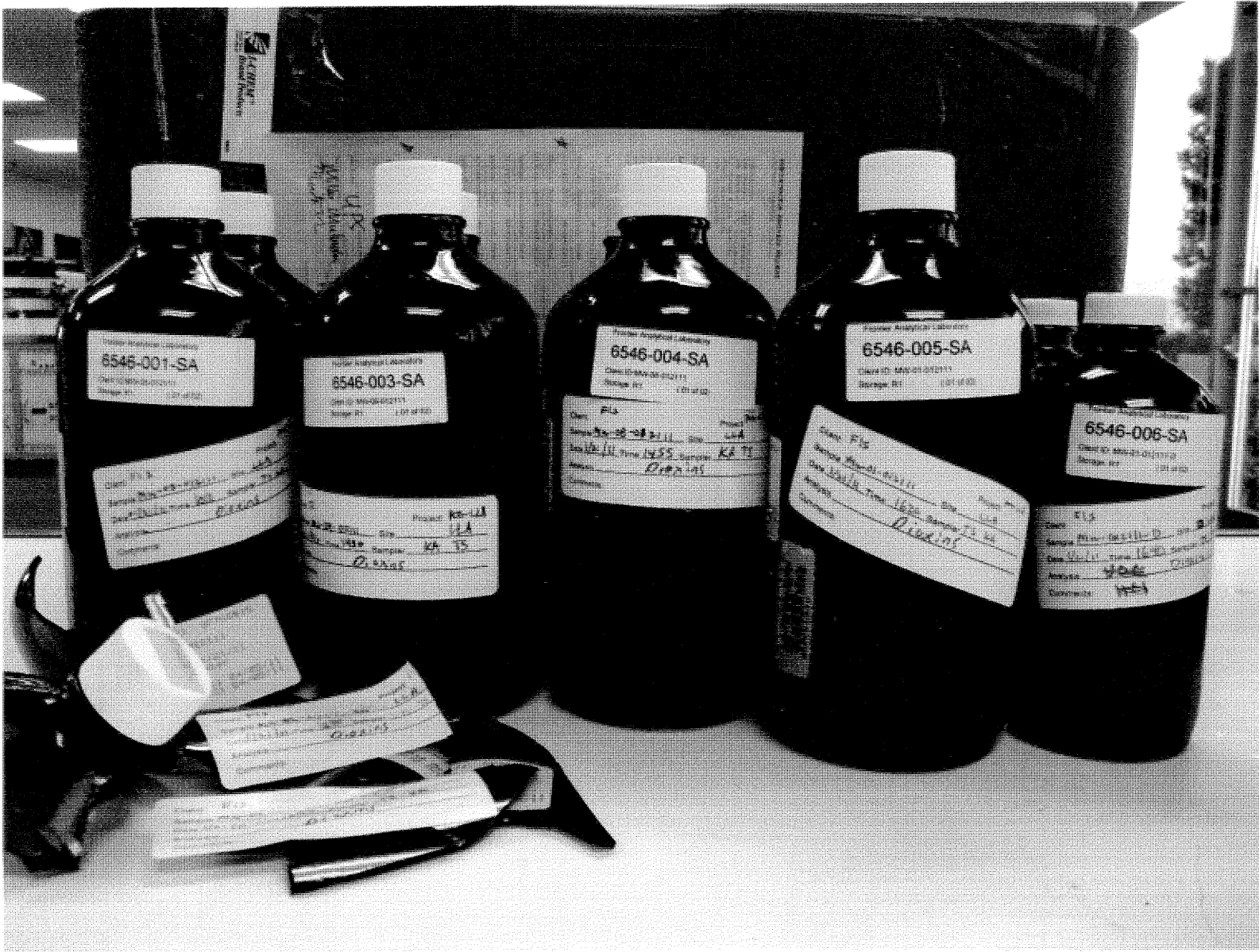
Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **6546**

Client:	Analytical Resources Inc. Sue Dunninghoo
Client Project ID:	SF76
Date Received:	01/25/2011
Time Received:	10:10 am
Received By:	GN
Logged In By:	KZ
# of Samples Received:	6
Duplicates:	7
Storage Location:	R1

Method of Delivery:	UPS
Tracking Number:	1Z8326950149735243
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	01/23/2012
Adequate Sample Volume	Yes
Anomalies or additional comments:	
L4 DATA PACKAGE/ EXCEL EDD	





Frontier Analytical Laboratory

PROJECT REQUEST SHEET

Project #: 6546 Sample #: 1 - 6 Client Manager: BS
 Client: Analytical Resources Inc. Sue Dunnihoo Hold Time: 01/23/2012
 Matrix: Ground Water Extraction Batch: 2207 Due Date: 02/16/2011
 Method: EPA 1613 D/F Storage: R1
 SOP: SOPs: EP2A Rev.8 IP2A Rev.9

COMMENTS/INSTRUCTIONS:

Sample	Full Weight (g)	Empty Weight (g)
6546-001-0001-SA	1500.53	497.52
6546-002-0002-SA	761.86	309.78
6546-003-0001-SA	1523.12	493.56
6546-004-0001-SA	1527.91	497.59
6546-005-0001-SA	1492.63	497.20
6546-006-0001-SA	758.30	306.88

L4 EXCEL EDD

Results: 6546

Instrument: Jal3
 DB5 _____
 DB225 _____
 DB1 _____
 Other _____

Extract/s located in box: "BOX WITH NO NAME"

Standards: 6546

Frontier Analytical Laboratory

EXTRACTION SHEET

Project #: 6546 Extraction Date: 2011-01-31 Extraction Chemist: MP

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: 3 Chemist/Witness/Date		Amt: 10.0uL ID: 100511B Vial: 1 Chemist/Witness/Date		Amt: 10.0uL ID: 100511C Vial: 3 Chemist/Witness/Date	
2207-001-0001-MB	(1.000L)	N/A	MP ✓ 1-31-11		N/A		MP ✓ 2-1-11	
2207-001-0001-OPR	(1.000L)				MP ✓ 1-31-11			
6546-001-0001-SA	1.003L				NA			
6546-002-0001-SA	0.452L							
6546-003-0001-SA	1.030L							
6546-004-0001-SA	1.030L							
6546-005-0001-SA	0.995L							
6546-006-0001-SA	0.451L	↓	↓		↓		↓	

AX-21 Charcoal Cleaned	031210	Acetone	105790	Acid Alumina	A0284730	Hexane	105556
Hydrochloric Acid	B08505	Methanol	106063	Methylene Chloride (DCM)	50267	Silica Gel	TA1592834
Sodium Hydroxide	9120904	Sodium Sulfate	1750C277	Sulfuric Acid	104256	Tetradecane	086237
Toluene	104811	Water	50229	C-18 Empore Discs	320637	Cyclohexane	48151

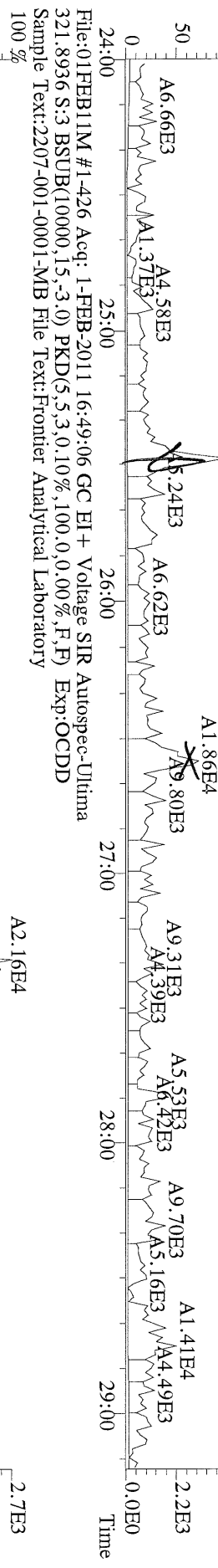
Comments:

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	DL	
2,3,7,8-TCDD	*	* n	NotFnd	1.11	*		2.50	723	795	1.06	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.10	*		2.50	900	788	1.54	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	1040	1060	2.16	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	1040	1060	2.63	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.36	*		2.50	1040	1060	2.40	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.45	*		2.50	868	856	2.50	
OCDD	*	* n	NotFnd	1.43	*		2.50	776	840	4.49	
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	1380	1180	0.813	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	776	936	1.13	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	776	936	1.23	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	1040	1020	1.91	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.82	*		2.50	1040	1020	1.91	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.92	*		2.50	1040	1020	2.04	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	1040	1020	2.32	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.39	*		2.50	912	892	2.43	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.36	*		2.50	912	892	3.59	
OCDF	*	* n	NotFnd	0.79	*		2.50	796	740	4.59	
Rec											
13C-2,3,7,8-TCDD	3.00e+07	0.78 y	27:19	1.02	1950					97.7	
13C-1,2,3,7,8-PeCDD	2.73e+07	1.72 y	33:10	0.84	2160					108	
13C-1,2,3,4,7,8-HxCDD	1.93e+07	1.25 y	38:33	1.07	2010					100	
13C-1,2,3,6,7,8-HxCDD	1.82e+07	1.24 y	38:42	1.01	2010					101	
13C-1,2,3,4,6,7,8-HpCDD	1.63e+07	1.03 y	44:10	0.86	2130					107	
13C-OCDD	2.18e+07	1.02 y	49:44	0.55	4450					111	
13C-2,3,7,8-TCDF	4.66e+07	0.88 y	26:35	0.99	1800					90.2	
13C-1,2,3,7,8-PeCDF	4.37e+07	1.65 y	31:25	0.84	2010					101	
13C-2,3,4,7,8-PeCDF	4.11e+07	1.69 y	32:45	0.81	1950					97.4	
13C-1,2,3,4,7,8-HxCDF	3.19e+07	0.49 y	37:08	1.85	1930					96.3	
13C-1,2,3,6,7,8-HxCDF	4.25e+07	0.48 y	37:21	2.54	1870					93.6	
13C-2,3,4,6,7,8-HxCDF	3.39e+07	0.48 y	38:18	2.01	1880					93.9	
13C-1,2,3,7,8,9-HxCDF	3.08e+07	0.49 y	39:44	2.03	1700					84.8	
13C-1,2,3,4,6,7,8-HpCDF	1.77e+07	0.49 y	42:15	1.11	1780					89.2	
13C-1,2,3,4,7,8,9-HpCDF	1.36e+07	0.49 y	45:06	0.80	1890					94.5	
13C-OCDF	3.66e+07	0.93 y	50:06	1.08	3770					94.4	
37Cl-2,3,7,8-TCDD	8.21e+06		27:20	0.69	797					99.7	
13C-1,2,3,4-TCDD	3.00e+07	0.76 y	26:45	-	66.8						
13C-1,2,3,4-TCDF	5.19e+07	0.88 y	25:29	-	71.8						
13C-1,2,3,7,8,9-HxCDD	1.79e+07	1.29 y	39:09	-	64.9						
Fac Noise-1 Noise-2 DL #Hom											
Total Tetra-Dioxins	*		NotFnd	1.11	*		2.50	723	795	1.06	0
Total Penta-Dioxins	*		NotFnd	1.10	*		2.50	900	788	1.54	0
Total Hexa-Dioxins	*		NotFnd	1.37	*		2.50	1040	1060	2.63	0
Total Hepta-Dioxins	*		NotFnd	1.45	*		2.50	868	856	2.50	0
Total Tetra-Furans	*		NotFnd	1.50	*		2.50	1380	1180	0.813	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.94	*		2.50	776	936	1.23	PeCDF 0
Total Penta-Furans	*		NotFnd	0.94	*		2.50	776	936	1.23	* 0
Total Hexa-Furans	*		NotFnd	0.91	*		2.50	1040	1020	2.32	0
Total Hepta-Furans	*		NotFnd	1.38	*		2.50	912	892	3.59	0

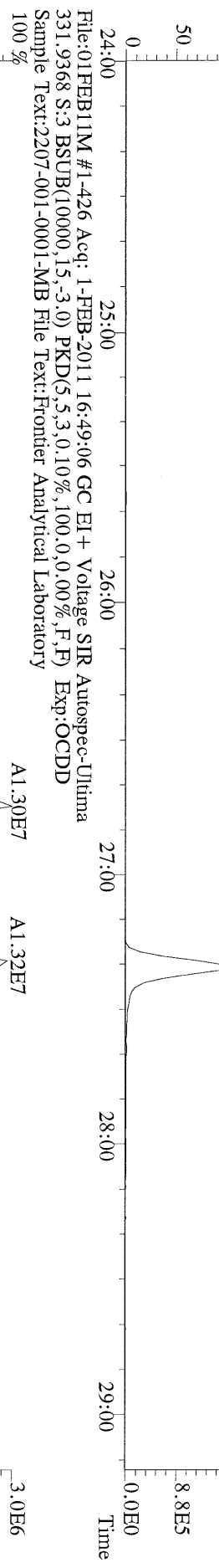
Analyst: 

Date: 2/2/11

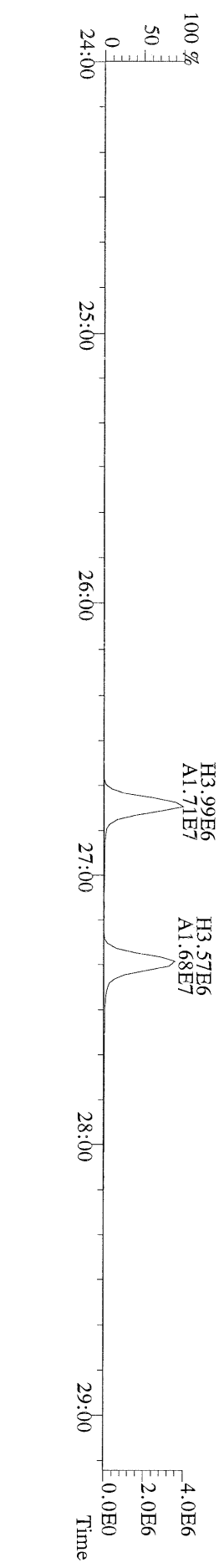
File:01FEBB11M #1-426 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



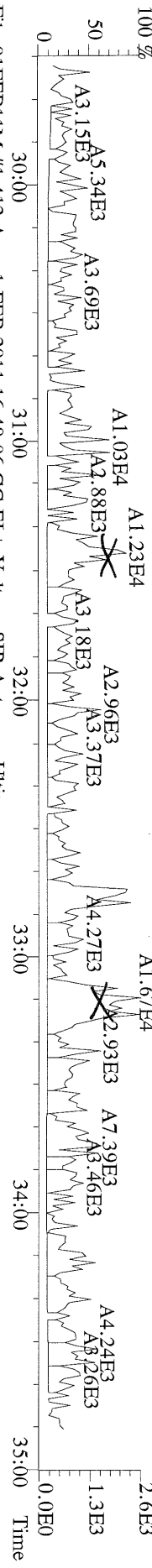
File:01FEBB11M #1-426 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



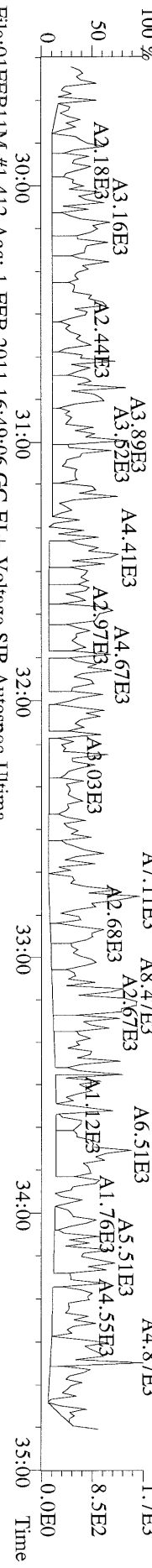
File:01FEBB11M #1-426 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



File:01FEB11M #1-412 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



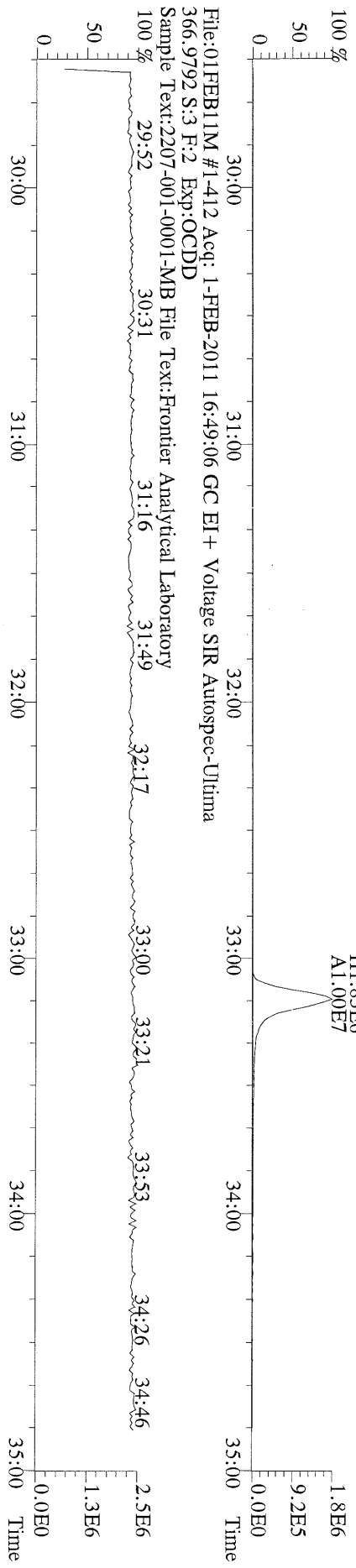
File:01FEB11M #1-412 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



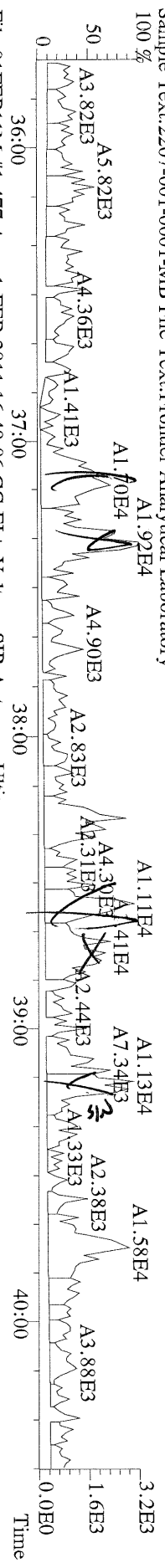
File:01FEB11M #1-412 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



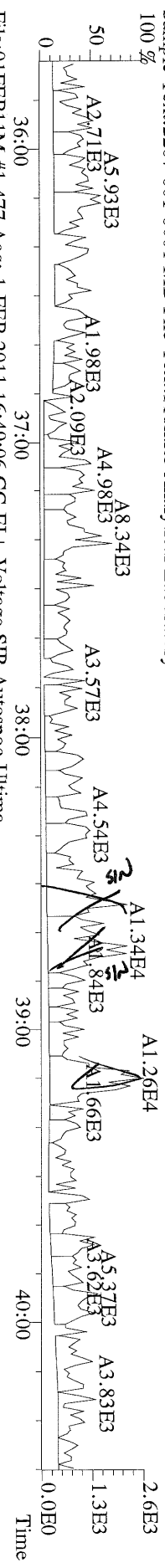
File:01FEB11M #1-412 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



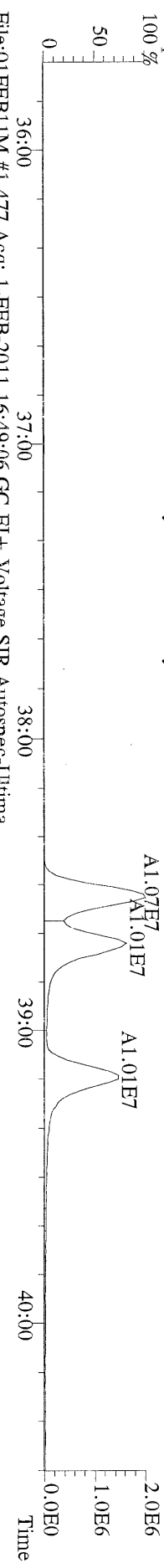
File:01FEBB11M #1-477 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
 389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



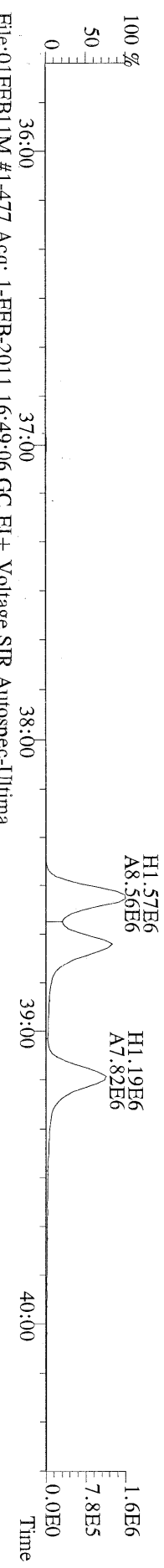
File:01FEBB11M #1-477 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
 391.8127 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



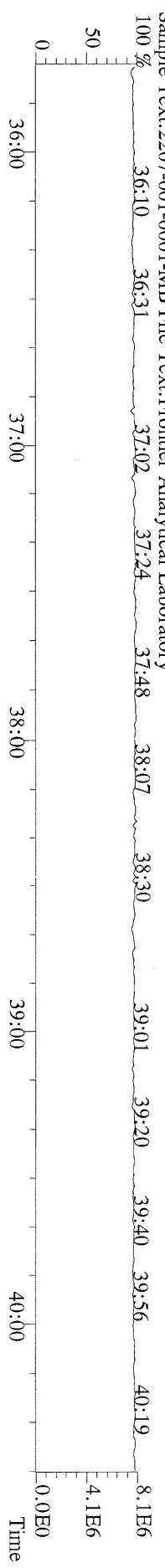
File:01FEBB11M #1-477 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
 401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



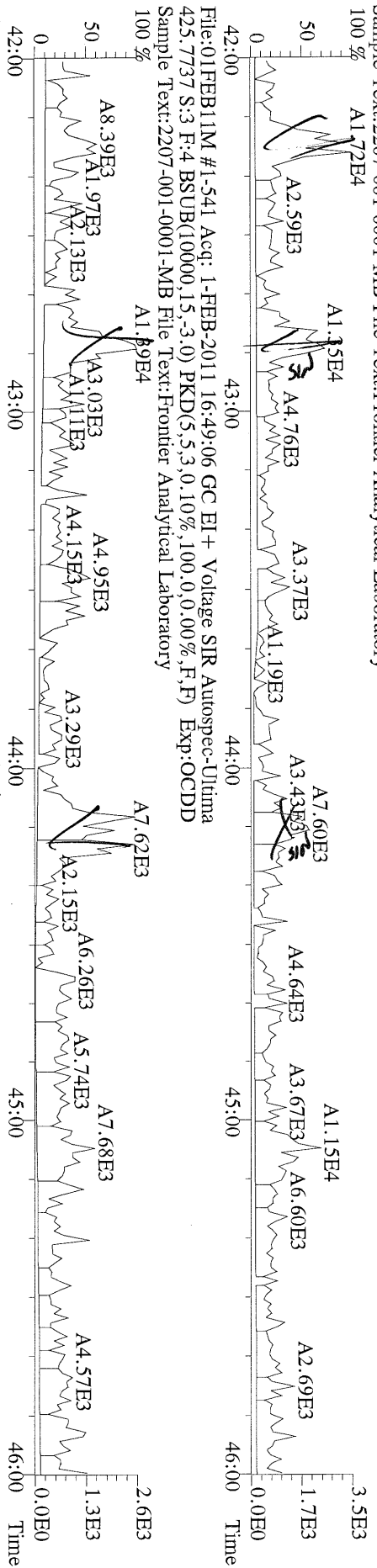
File:01FEBB11M #1-477 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
 403.8530 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



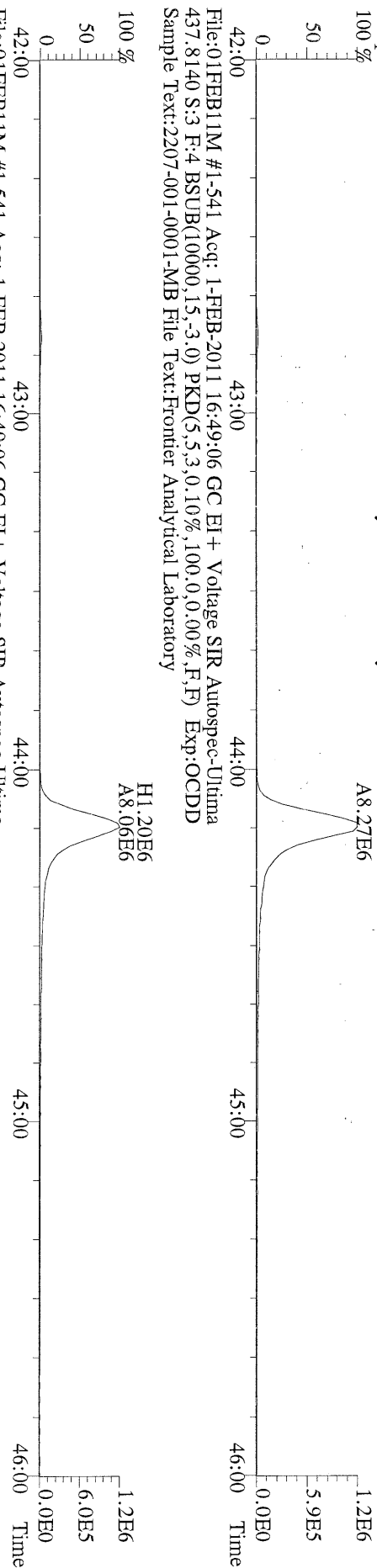
File:01FEBB11M #1-477 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
 380.9760 S:3 F:3 Exp:OCDD
 Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



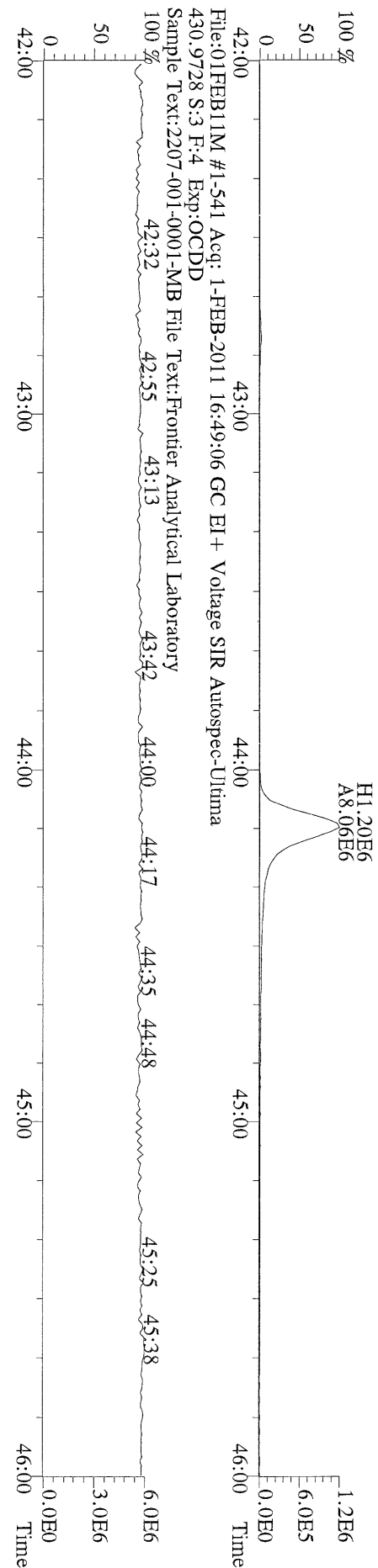
File:01FEBB11M #1-541 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



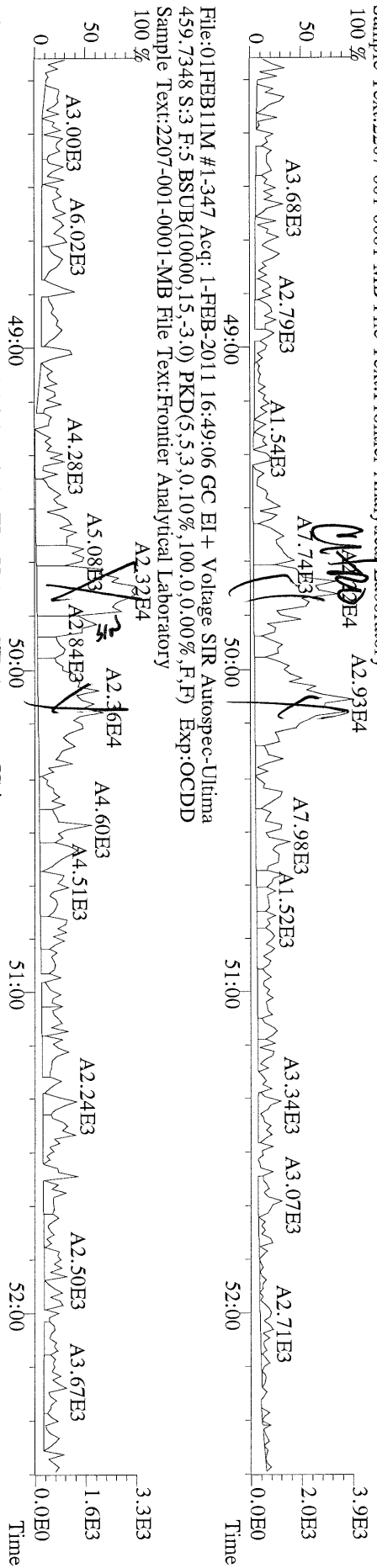
File:01FEBB11M #1-541 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



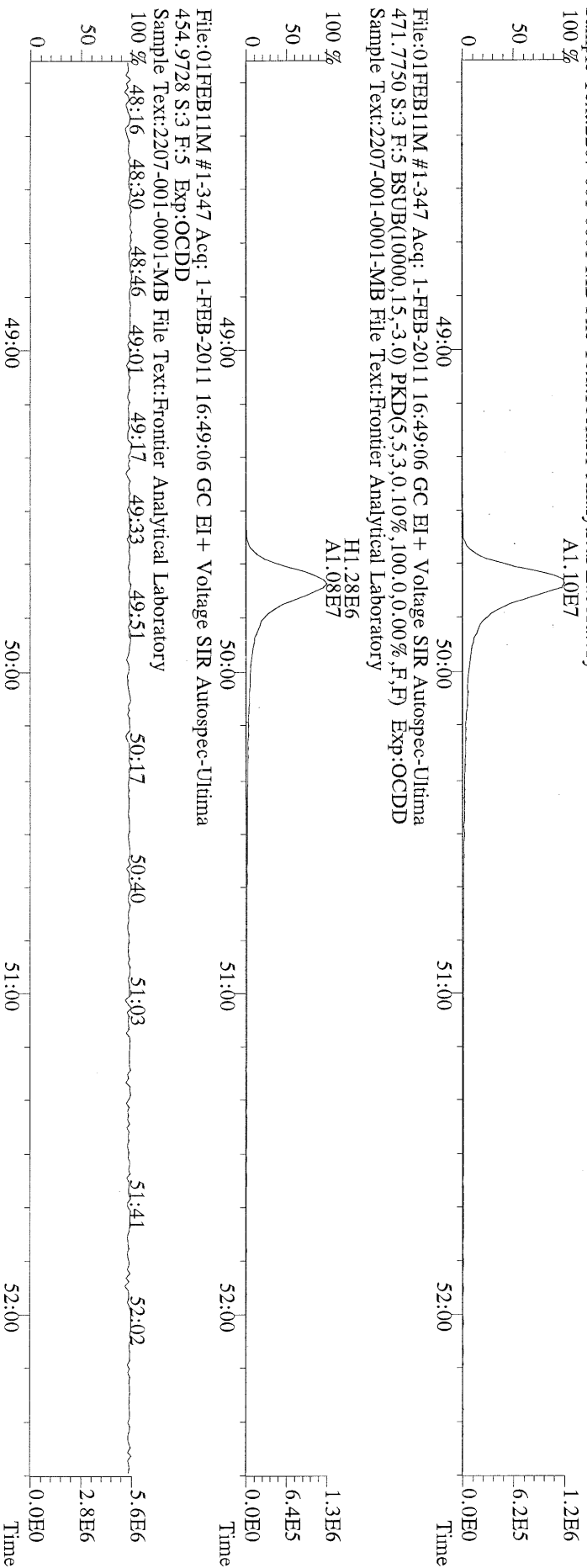
File:01FEBB11M #1-541 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



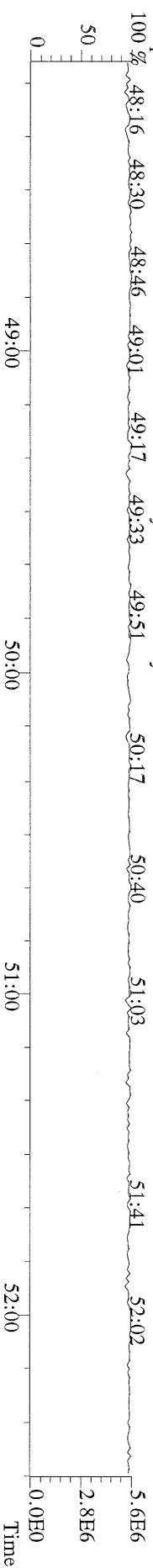
File:01FEB11M #1-347 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



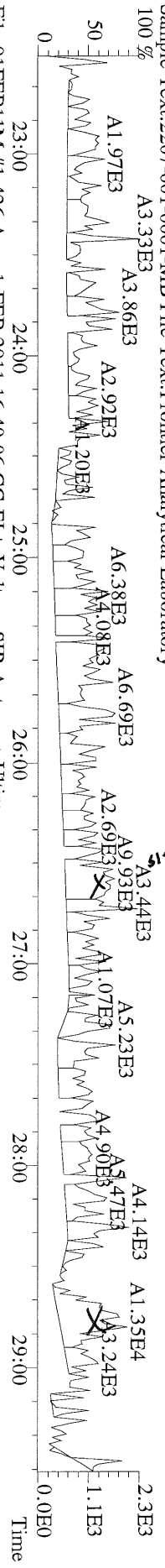
File:01FEB11M #1-347 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



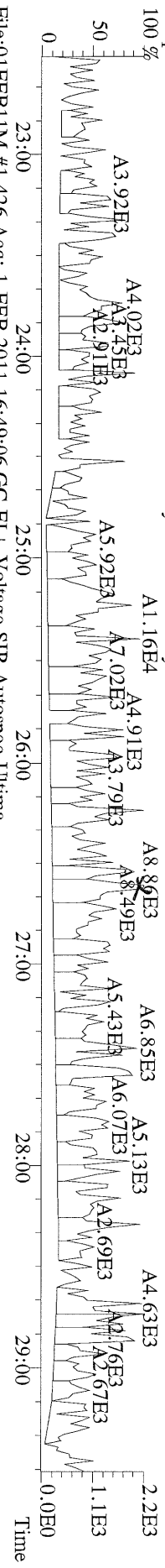
File:01FEB11M #1-347 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:3 F:5 Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



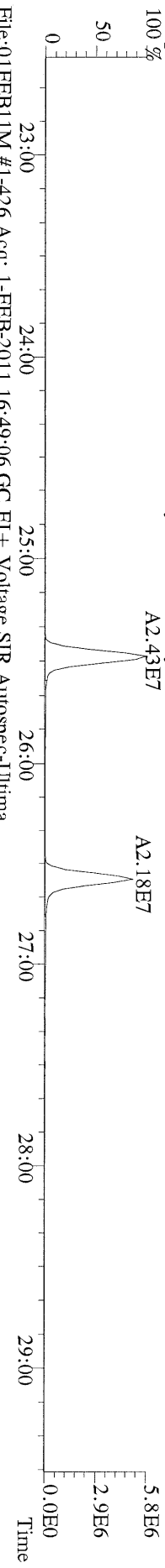
File:01FEB11M #1-426 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Utima
303.9016 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



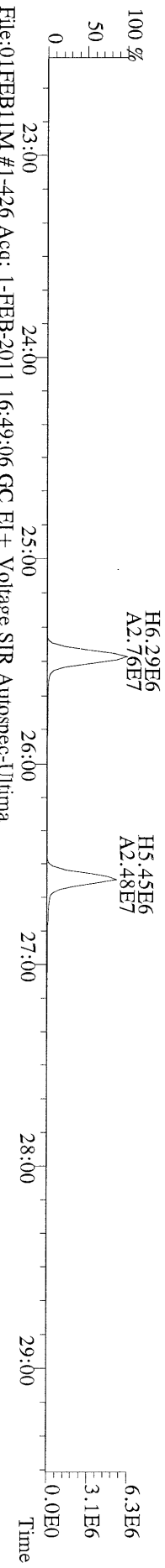
File:01FEB11M #1-426 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Utima
305.8987 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



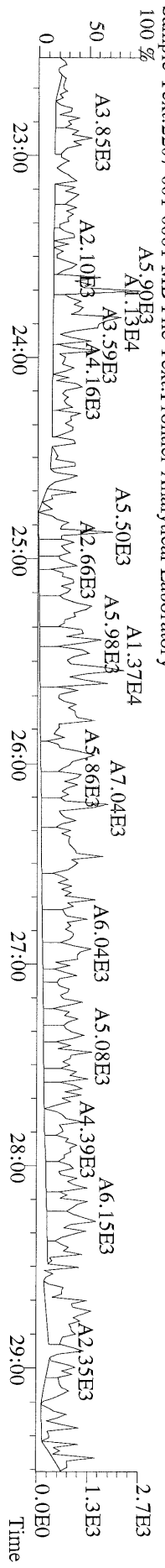
File:01FEB11M #1-426 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Utima
315.9419 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



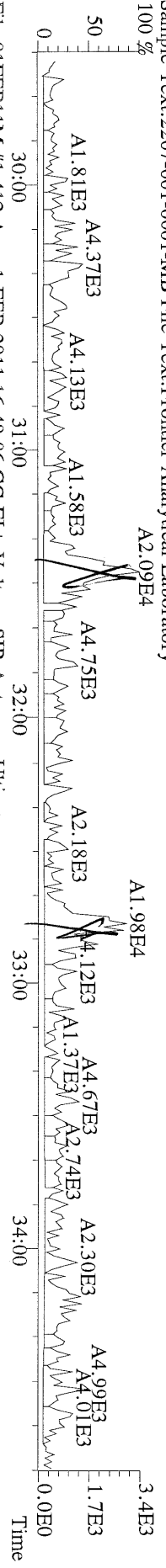
File:01FEB11M #1-426 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Utima
317.9389 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



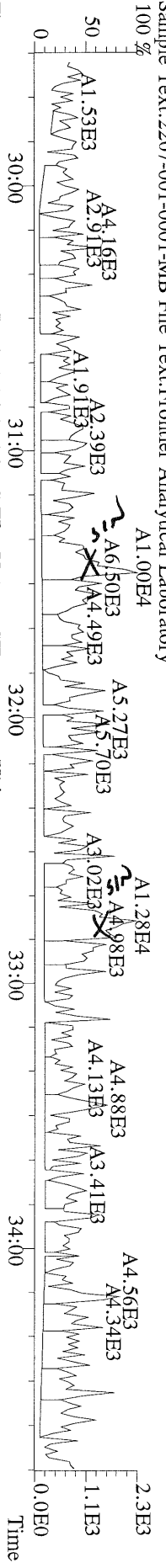
File:01FEB11M #1-426 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Utima
375.8364 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



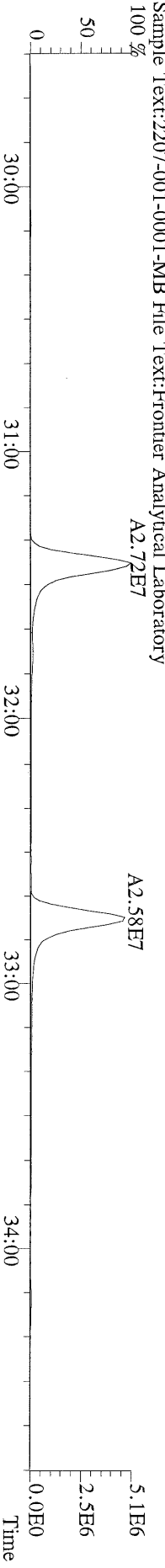
File:01FEB11M #1-412 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



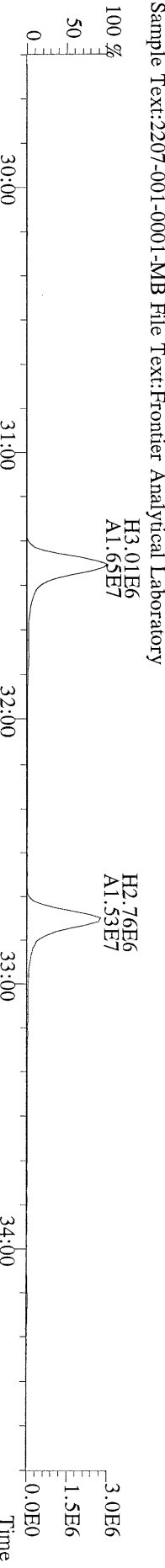
File:01FEB11M #1-412 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



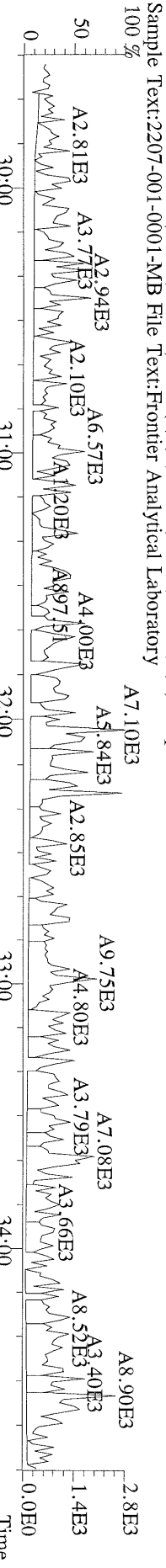
File:01FEB11M #1-412 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



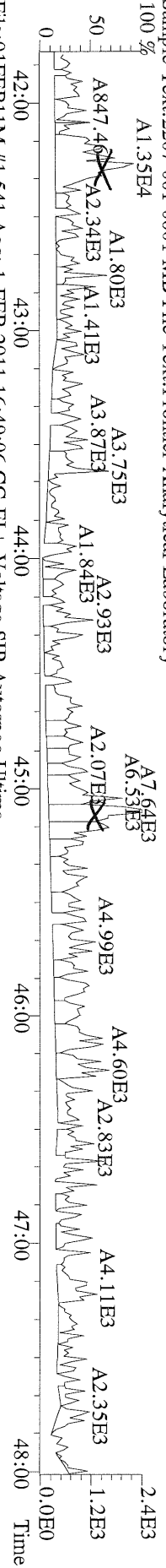
File:01FEB11M #1-412 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



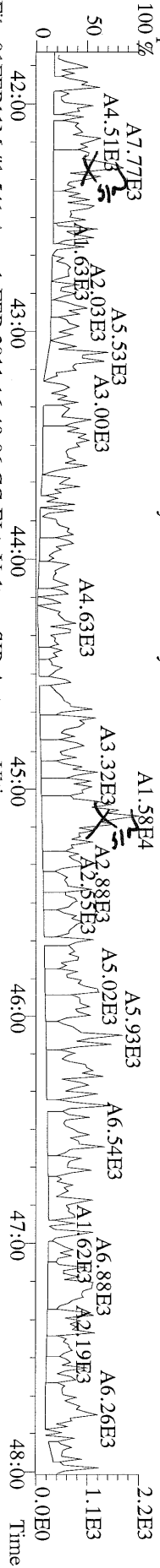
File:01FEB11M #1-412 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



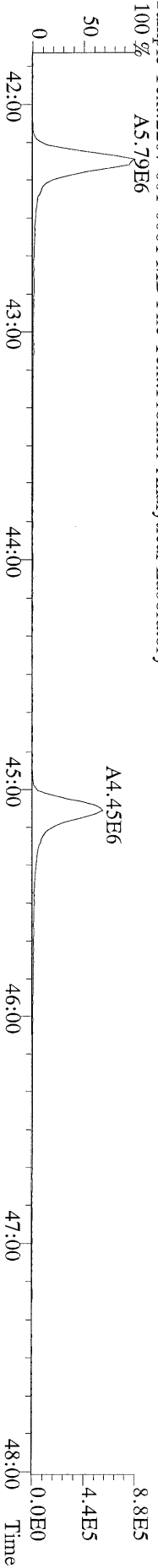
File:01FEB11M #1-541 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Utima
407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



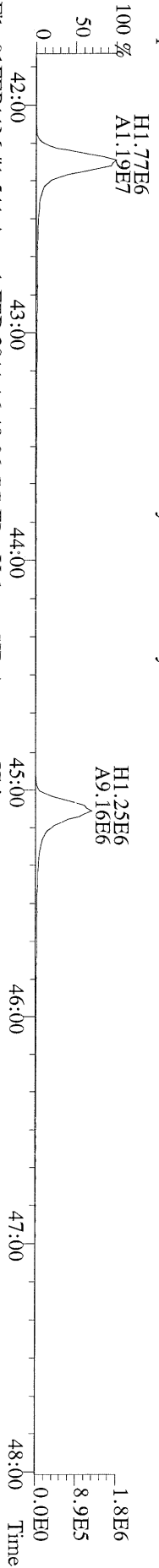
File:01FEB11M #1-541 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Utima
409.7788 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



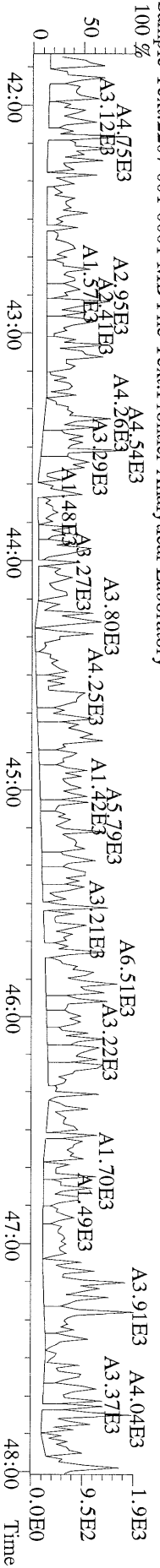
File:01FEB11M #1-541 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Utima
417.8253 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



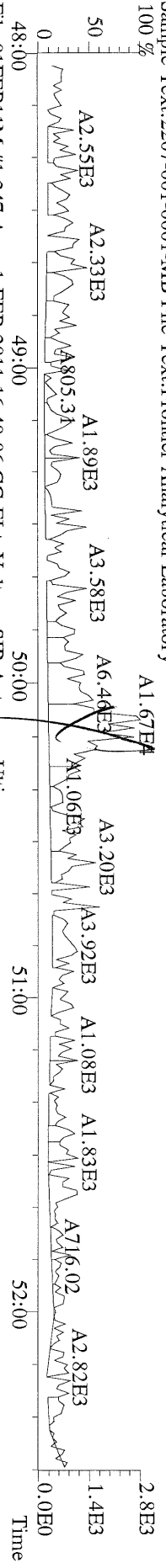
File:01FEB11M #1-541 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Utima
419.8220 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



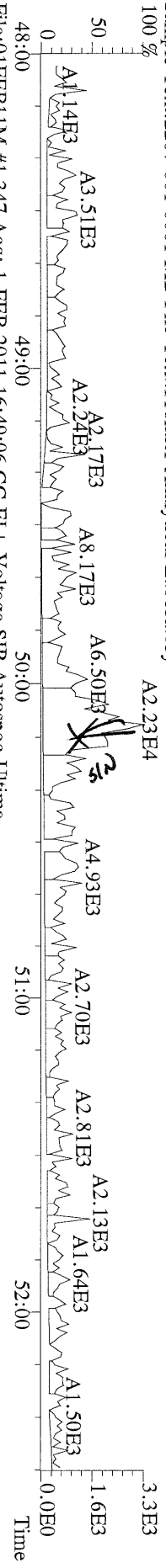
File:01FEB11M #1-541 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Utima
479.7165 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



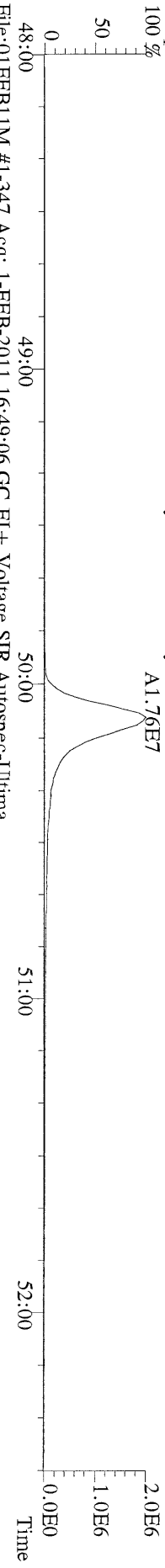
File:01FEB11M #1-347 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



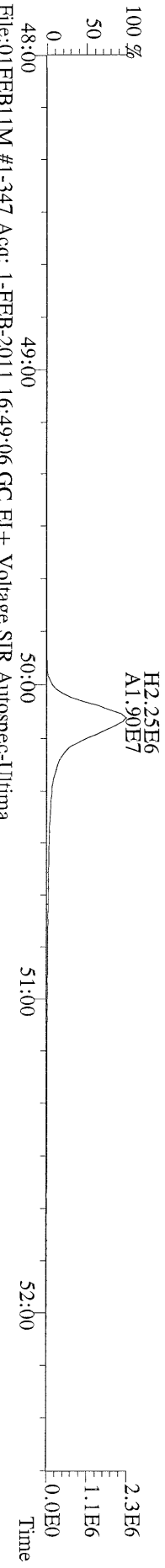
File:01FEB11M #1-347 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:3 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



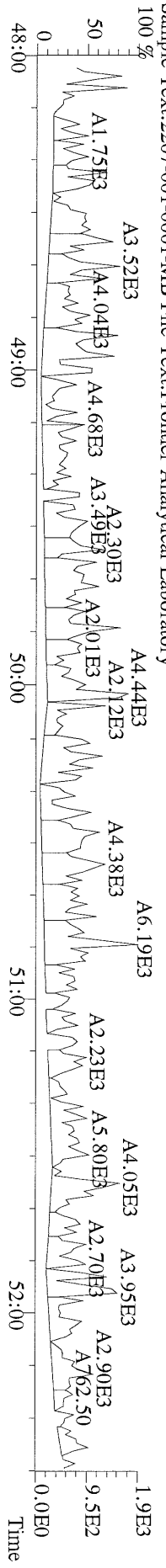
File:01FEB11M #1-347 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:3 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-MB File Text:Frontier Analytical Laboratory



File:01FEB11M #1-347 Acq: 1-FEB-2011 16:49:06 GC EI+ Voltage SIR Autospec-Ultima
455.7801 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:2207-001-0001-MB File Text:Frontier Analytical Laboratory



File:01FEB11M #1-347 Acq: 1-FEB-2011 16:49:06 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:2207-001-0001-MB File Text:Frontier Analytical Laboratory



2207-001-0001-OPR

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: 01FEB11M Sam:2

Ext. Date: 1/31/11 Shift: Day

Analysis Date: 1-FEB-11 15:53:43

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	10.9	6.70 - 15.8 ✓
1,2,3,7,8-PeCDD	50	52.0	35.0 - 71.0 ✓
1,2,3,4,7,8-HxCDD	50	50.8	35.0 - 82.0 ✓
1,2,3,6,7,8-HxCDD	50	54.1	38.0 - 67.0 ✓
1,2,3,7,8,9-HxCDD	50	55.2	32.0 - 81.0 ✓
1,2,3,4,6,7,8-HpCDD	50	46.1	35.0 - 70.0 ✓
OCDD	100	107	78.0 - 144 ✓
2,3,7,8-TCDF	10	8.50	7.50 - 15.8 ✓
1,2,3,7,8-PeCDF	50	48.2	40.0 - 67.0 ✓
2,3,4,7,8-PeCDF	50	47.4	34.0 - 80.0 ✓
1,2,3,4,7,8-HxCDF	50	55.0	36.0 - 67.0 ✓
1,2,3,6,7,8-HxCDF	50	56.6	42.0 - 65.0 ✓
2,3,4,6,7,8-HxCDF	50	56.7	35.0 - 78.0 ✓
1,2,3,7,8,9-HxCDF	50	55.3	39.0 - 65.0 ✓
1,2,3,4,6,7,8-HpCDF	50	54.6	41.0 - 61.0 ✓
1,2,3,4,7,8,9-HpCDF	50	54.0	39.0 - 69.0 ✓
OCDF	100	105	63.0 - 170 ✓


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

Analyst: [Signature]

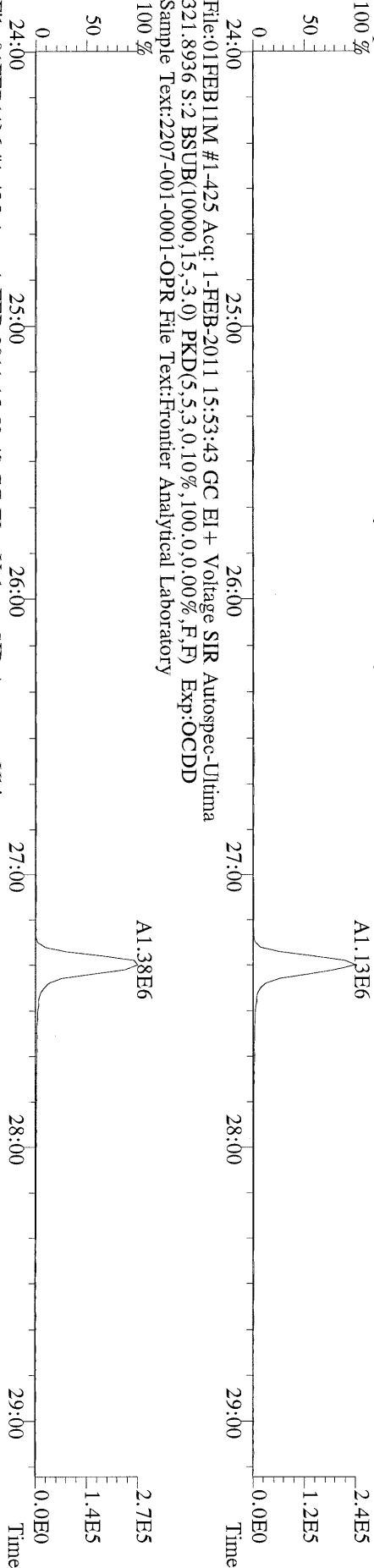
Date: 2/2/11

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	#Hom
2,3,7,8-TCDD	2.51e+06	0.82 y	27:20	1.11	10.9		2.50	-	*	
1,2,3,7,8-PeCDD	1.13e+07	1.48 y	33:10	1.10	52.0		2.50	-	*	
1,2,3,4,7,8-HxCDD	1.01e+07	1.25 y	38:33	1.37	50.8		2.50	-	*	
1,2,3,6,7,8-HxCDD	9.85e+06	1.26 y	38:43	1.37	54.1		2.50	-	*	
1,2,3,7,8,9-HxCDD	1.04e+07	1.24 y	39:10	1.36	55.2		2.50	-	*	
1,2,3,4,6,7,8-HpCDD	7.59e+06	0.90 y	44:10	1.45	46.1		2.50	-	*	
OCDD	1.14e+07	0.94 y	49:44	1.43	107		2.50	-	*	
2,3,7,8-TCDF	4.26e+06	0.70 y	26:35	1.50	8.50		2.50	-	*	
1,2,3,7,8-PeCDF	1.42e+07	1.58 y	31:26	0.94	48.2		2.50	-	*	
2,3,4,7,8-PeCDF	1.37e+07	1.58 y	32:46	0.94	47.4		2.50	-	*	
1,2,3,4,7,8-HxCDF	1.17e+07	1.27 y	37:10	0.93	55.0		2.50	-	*	
1,2,3,6,7,8-HxCDF	1.41e+07	1.26 y	37:21	0.82	56.6		2.50	-	*	
2,3,4,6,7,8-HxCDF	1.25e+07	1.23 y	38:18	0.92	56.7		2.50	-	*	
1,2,3,7,8,9-HxCDF	1.30e+07	1.25 y	39:45	1.00	55.3		2.50	-	*	
1,2,3,4,6,7,8-HpCDF	9.04e+06	1.05 y	42:16	1.39	54.6		2.50	-	*	
1,2,3,4,7,8,9-HpCDF	7.08e+06	1.03 y	45:06	1.36	54.0		2.50	-	*	
OCDF	1.12e+07	0.90 y	50:08	0.79	105		2.50	-	*	
Rec										
13C-2,3,7,8-TCDD	2.07e+07	0.77 y	27:19	1.02	70.3				70.3	
13C-1,2,3,7,8-PeCDD	1.97e+07	1.67 y	33:09	0.84	81.6				81.6	
13C-1,2,3,4,7,8-HxCDD	1.44e+07	1.25 y	38:32	1.07	73.7				73.7	
13C-1,2,3,6,7,8-HxCDD	1.33e+07	1.24 y	38:42	1.01	71.7				71.7	
13C-1,2,3,4,6,7,8-HpCDD	1.14e+07	1.01 y	44:09	0.86	72.6				72.6	
13C-OCDD	1.48e+07	0.95 y	49:44	0.55	148				74.2	
13C-2,3,7,8-TCDF	3.34e+07	0.88 y	26:34	0.99	68.7				68.7	
13C-1,2,3,7,8-PeCDF	3.12e+07	1.71 y	31:25	0.84	76.3				76.3	
13C-2,3,4,7,8-PeCDF	3.09e+07	1.74 y	32:45	0.81	78.0				78.0	
13C-1,2,3,4,7,8-HxCDF	2.29e+07	0.49 y	37:08	1.85	67.7				67.7	
13C-1,2,3,6,7,8-HxCDF	3.04e+07	0.47 y	37:21	2.54	65.6				65.6	
13C-2,3,4,6,7,8-HxCDF	2.40e+07	0.49 y	38:17	2.01	65.2				65.2	
13C-1,2,3,7,8,9-HxCDF	2.37e+07	0.49 y	39:44	2.03	63.7				63.7	
13C-1,2,3,4,6,7,8-HpCDF	1.19e+07	0.49 y	42:14	1.11	58.8				58.8	
13C-1,2,3,4,7,8,9-HpCDF	9.68e+06	0.48 y	45:05	0.80	65.9				65.9	
13C-OCDF	2.71e+07	0.95 y	50:06	1.08	137				68.5	
37Cl-2,3,7,8-TCDD	5.80e+06		27:20	0.69	29.4				73.6	
13C-1,2,3,4-TCDD	2.87e+07	0.77 y	26:44	-	63.9					
13C-1,2,3,4-TCDF	4.89e+07	0.88 y	25:28	-	67.6					
13C-1,2,3,7,8,9-HxCDD	1.83e+07	1.26 y	39:09	-	66.3					
Fac Noise-1 Noise-2 DL #Hom										
Total Tetra-Dioxins	2.73e+06		22:45	1.11	11.9		2.50	-	*	25
Total Penta-Dioxins	1.17e+07		31:25	1.10	53.9		2.50	-	*	16
Total Hexa-Dioxins	3.11e+07		36:06	1.37	164		2.50	-	*	20
Total Hepta-Dioxins	8.20e+06		41:33	1.45	49.8		2.50	-	*	31
Total Tetra-Furans	4.71e+06		22:45	1.50	9.40		2.50	-	*	37
1st Fn. Tot Penta-Furans	2.60e+05		22:43	0.94	0.890		2.50	-	*	PeCDF 37
Total Penta-Furans	2.92e+07		30:11	0.94	100		2.50	-	*	101 19
Total Hexa-Furans	5.21e+07		35:11	0.91	227		2.50	-	*	19
Total Hepta-Furans	1.72e+07		42:16	1.38	116		2.50	-	*	35

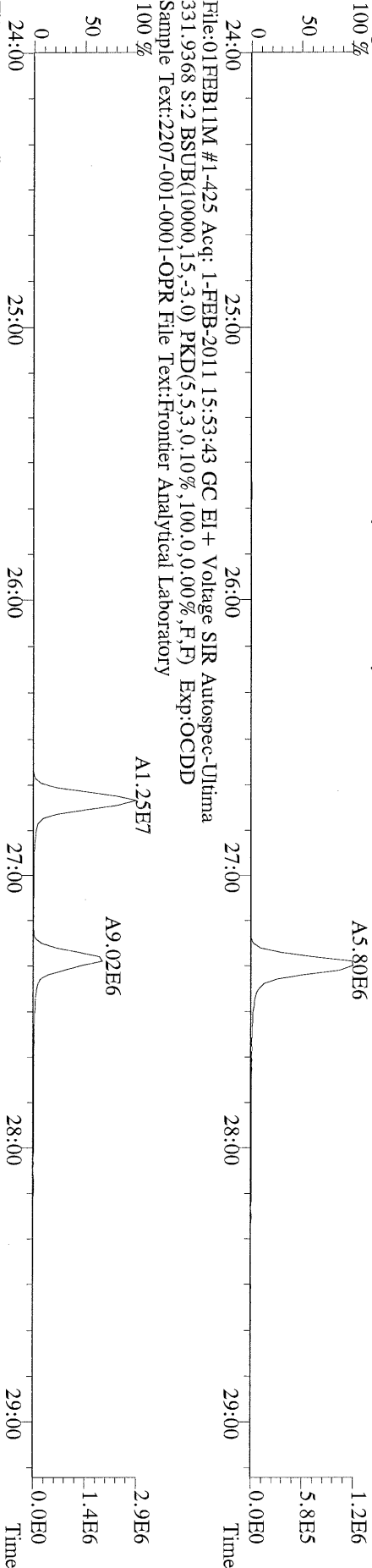
Analyst: 

Date: 

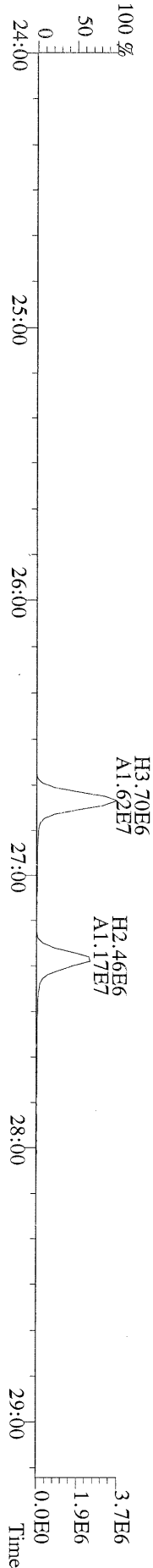
File:01FEB11M #1-425 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Utima
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



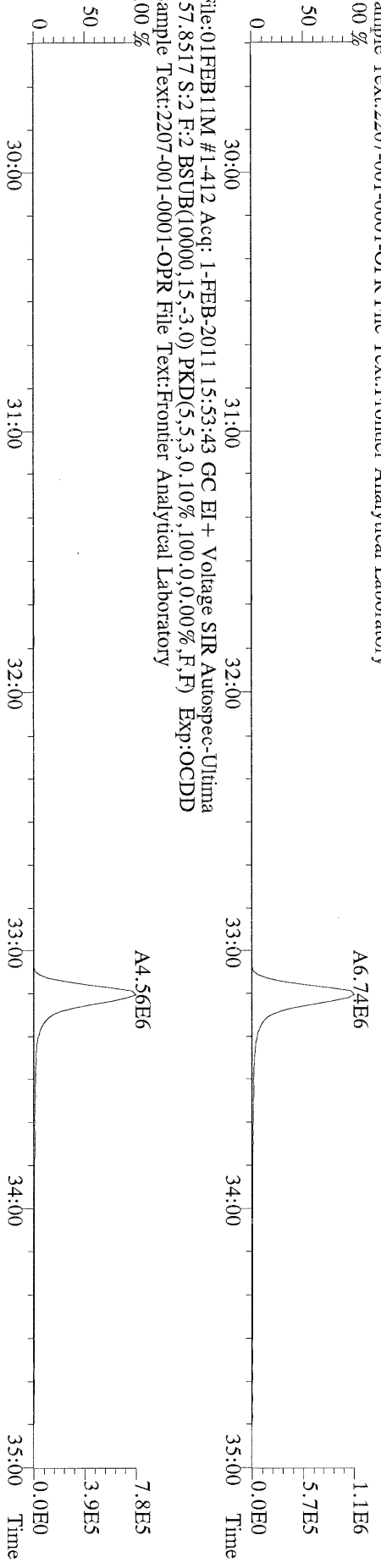
File:01FEB11M #1-425 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Utima
327.8847 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



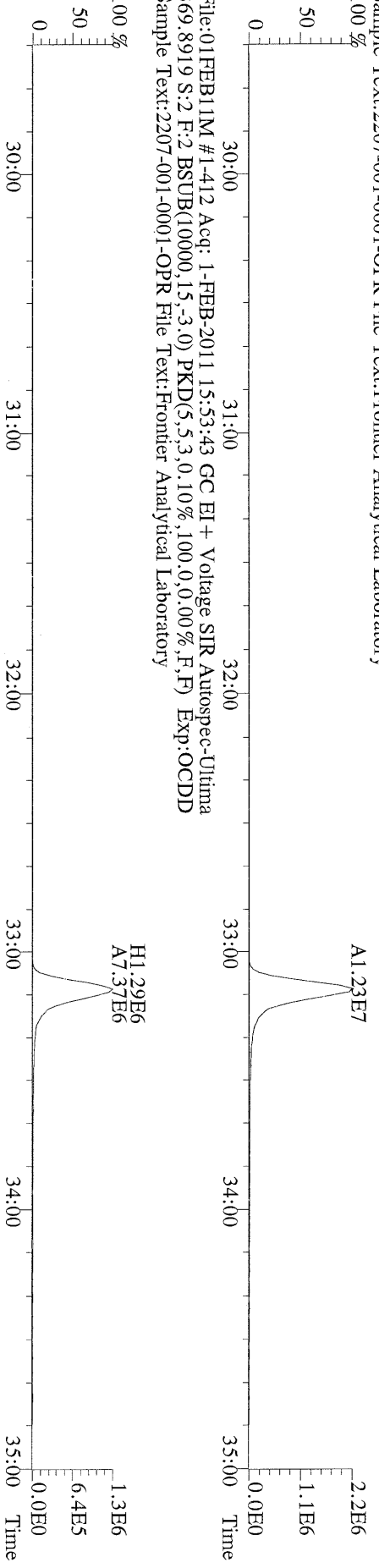
File:01FEB11M #1-425 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Utima
333.9339 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



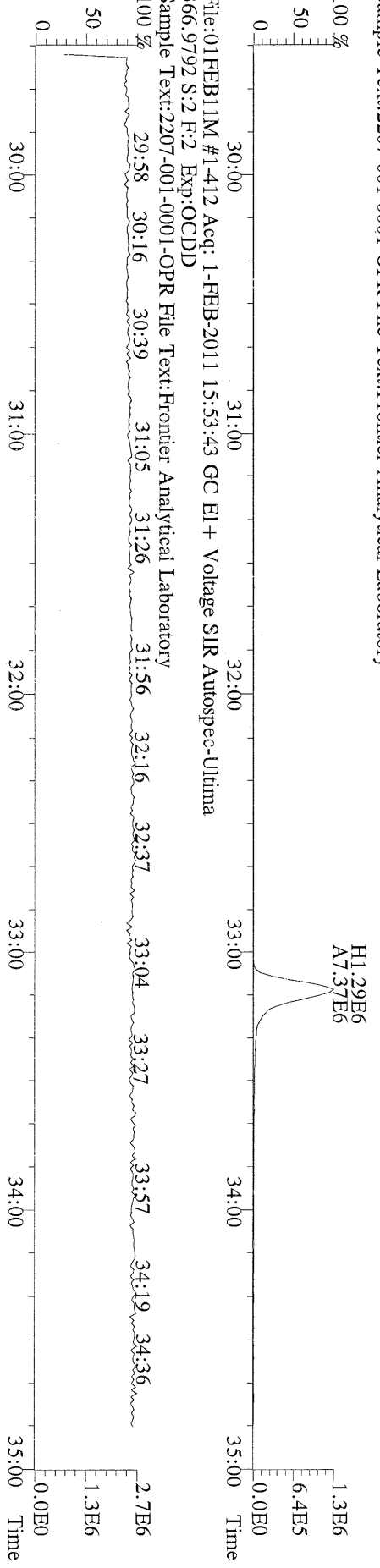
File:01FEB11M #1-412 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:2 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



File:01FEB11M #1-412 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Ultima
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:2207-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %

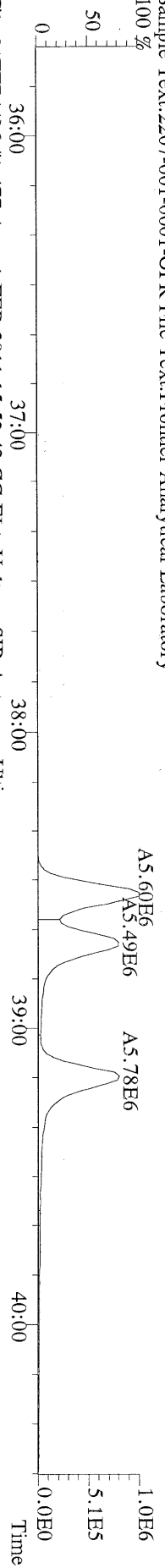


File:01FEB11M #1-412 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:2 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %

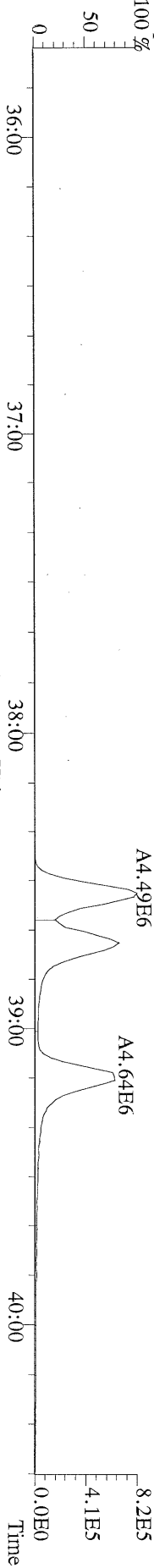


File:01FEB11M #1-412 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:2 F:2 Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %

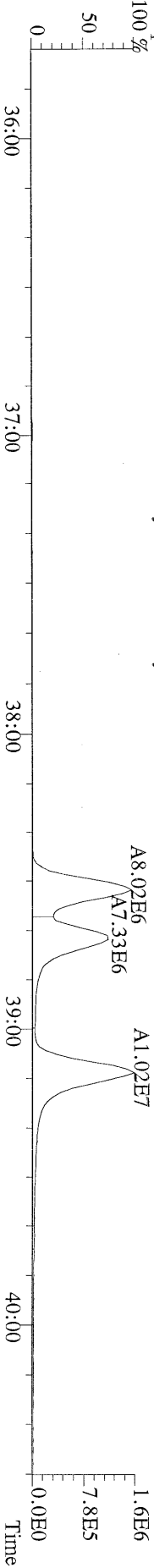
File:01FEB11M #1-477 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



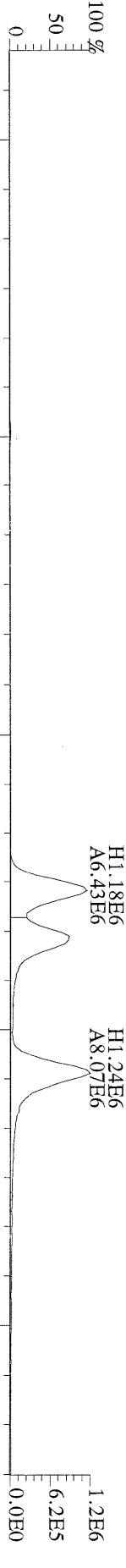
File:01FEB11M #1-477 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



File:01FEB11M #1-477 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Ultima
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:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



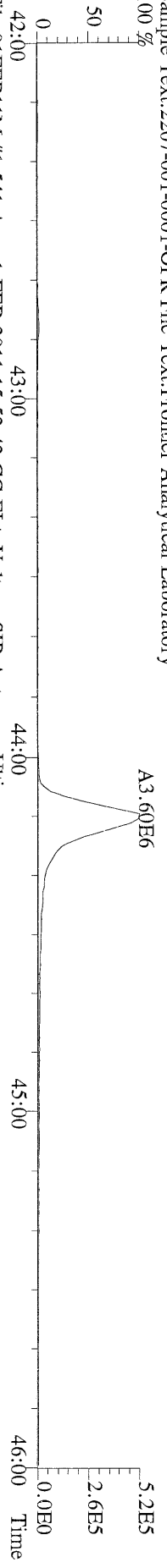
File:01FEB11M #1-477 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



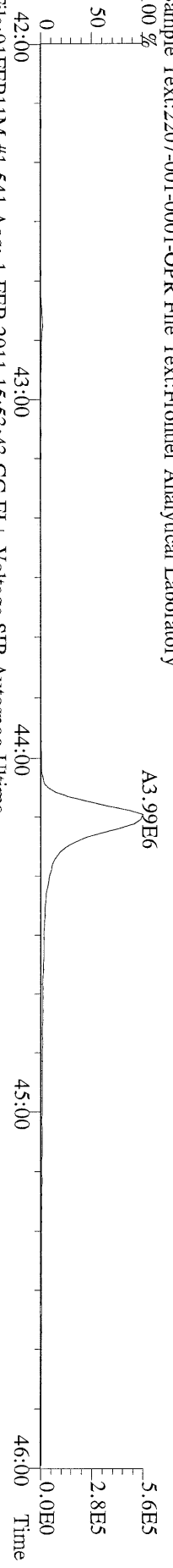
File:01FEB11M #1-477 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:2 F:3 Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



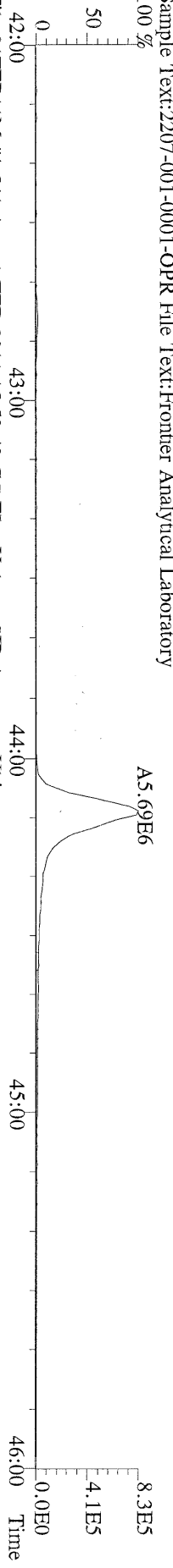
File:01FEB11M #1-541 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Utima
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



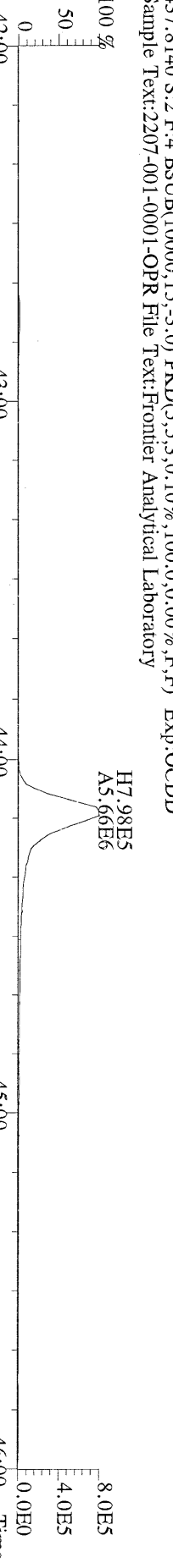
File:01FEB11M #1-541 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Utima
425.7737 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



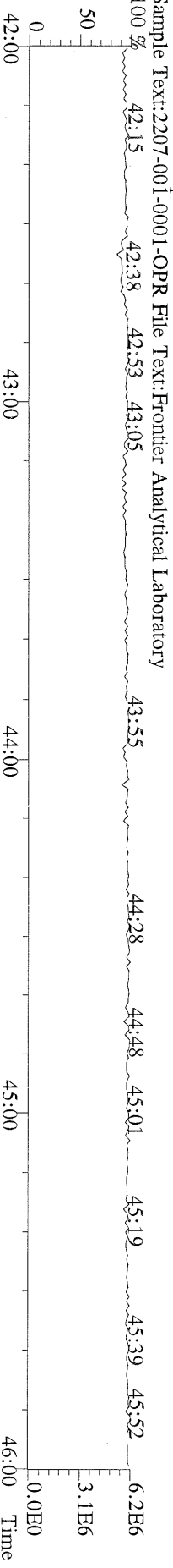
File:01FEB11M #1-541 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Utima
435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



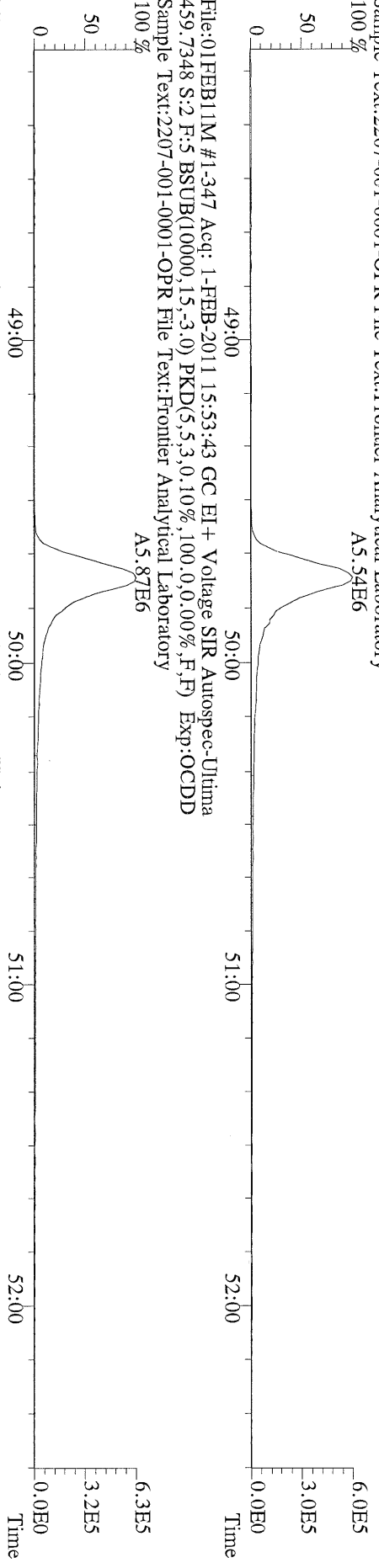
File:01FEB11M #1-541 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Utima
437.8140 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



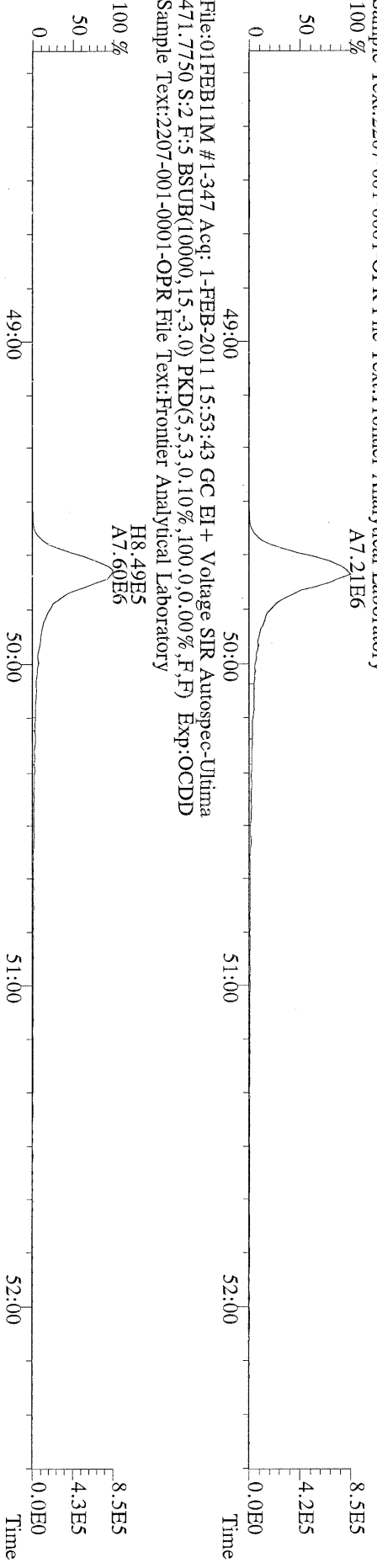
File:01FEB11M #1-541 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Utima
430.9728 S:2 F:4 Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



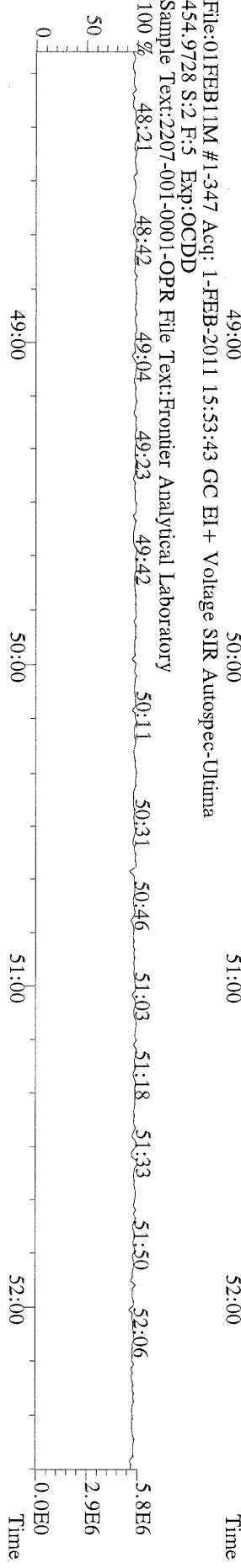
File:01FEB11M #1-347 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



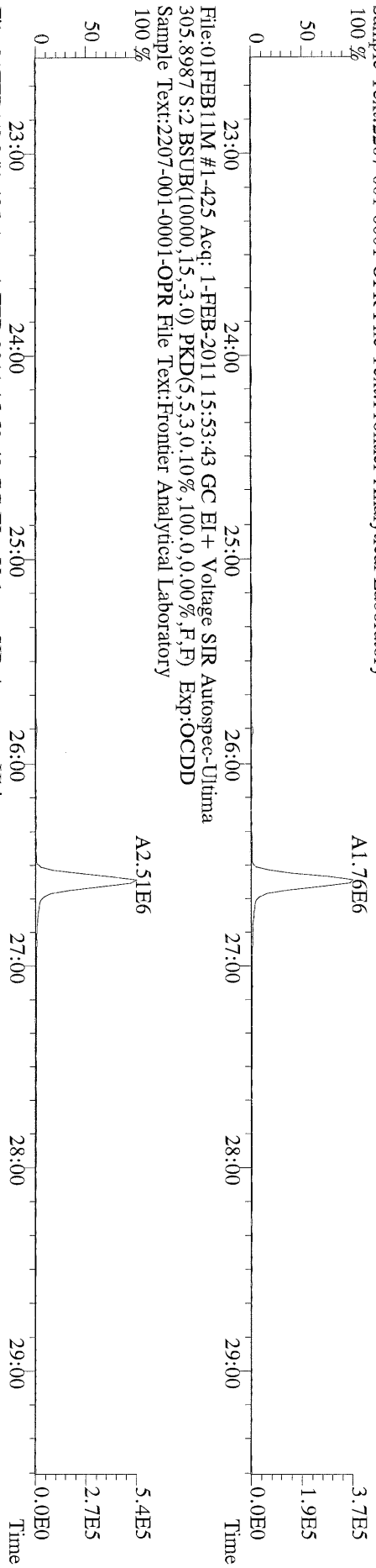
File:01FEB11M #1-347 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



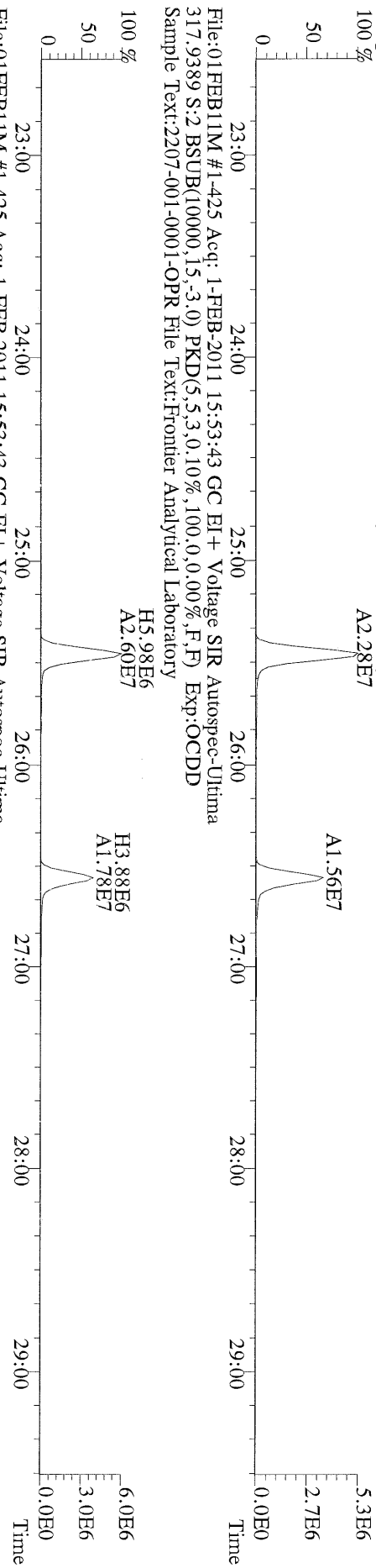
File:01FEB11M #1-347 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



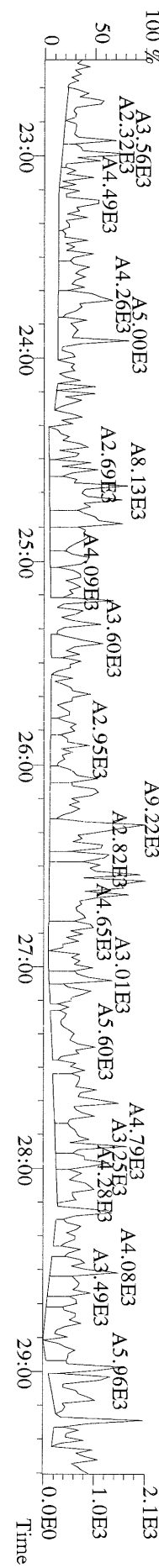
File:01FEB11M #1-425 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Utima
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



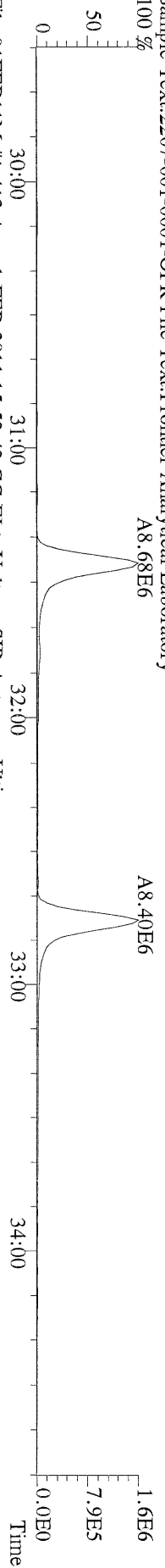
File:01FEB11M #1-425 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Utima
315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



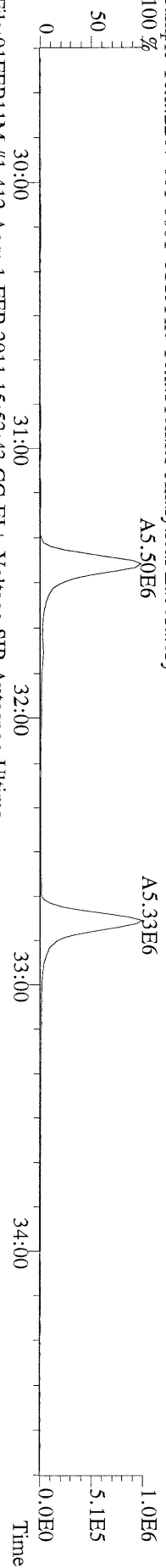
File:01FEB11M #1-425 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Utima
317.9389 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



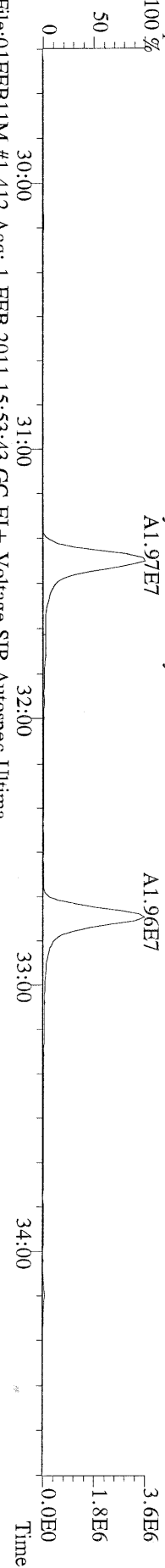
File:01FEB11M #1-412 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



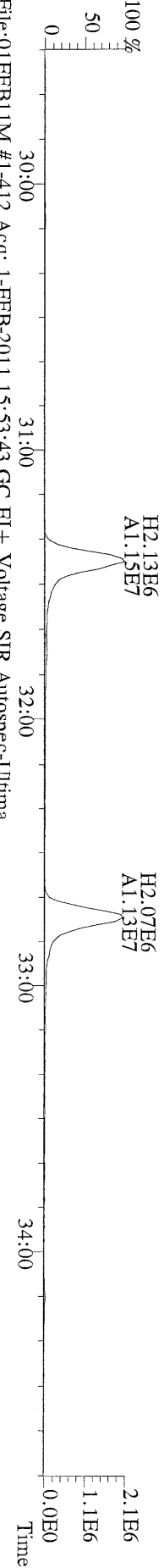
File:01FEB11M #1-412 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



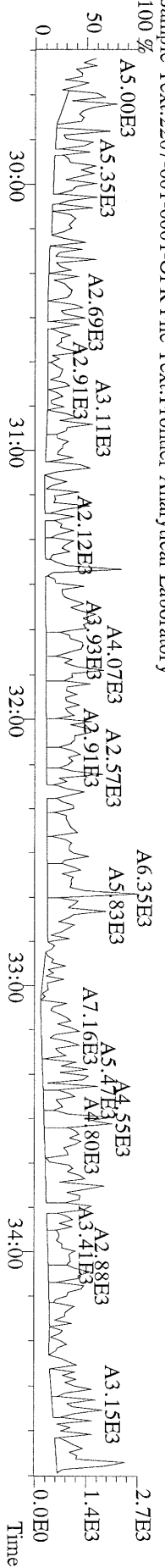
File:01FEB11M #1-412 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Ultima
 351.9000 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



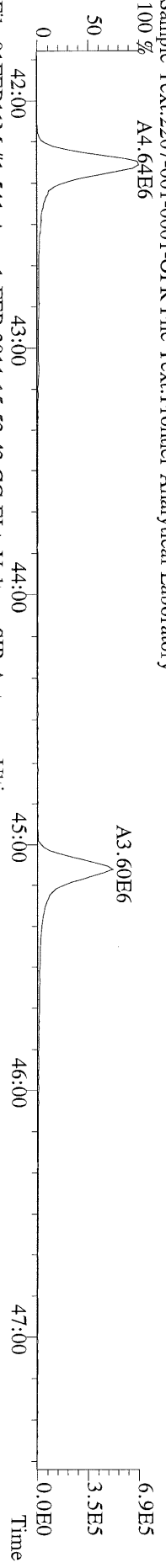
File:01FEB11M #1-412 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Ultima
 353.8970 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



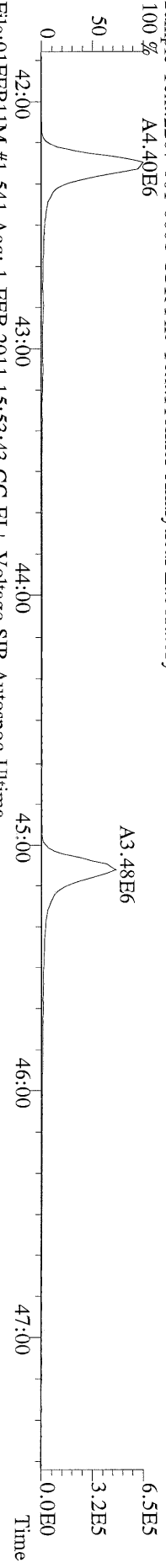
File:01FEB11M #1-412 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



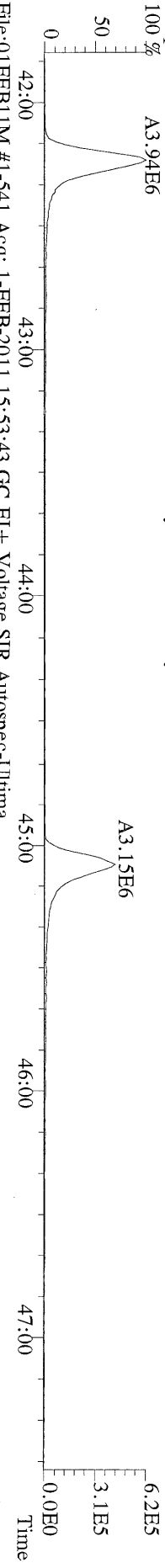
File:01FEB11M #1-541 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Utima
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



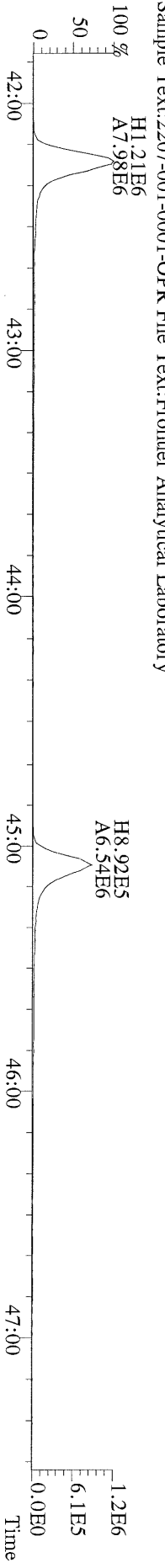
File:01FEB11M #1-541 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Utima
409.7788 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



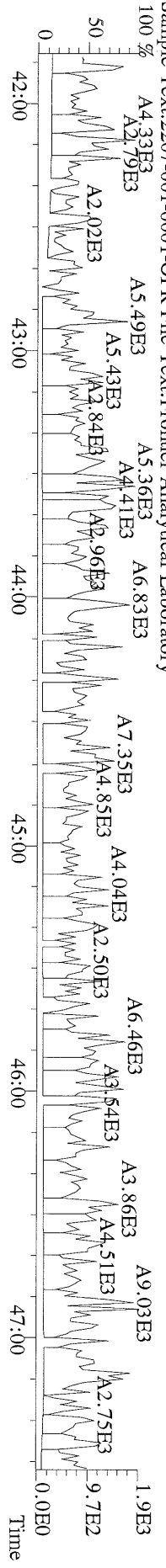
File:01FEB11M #1-541 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Utima
417.8253 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



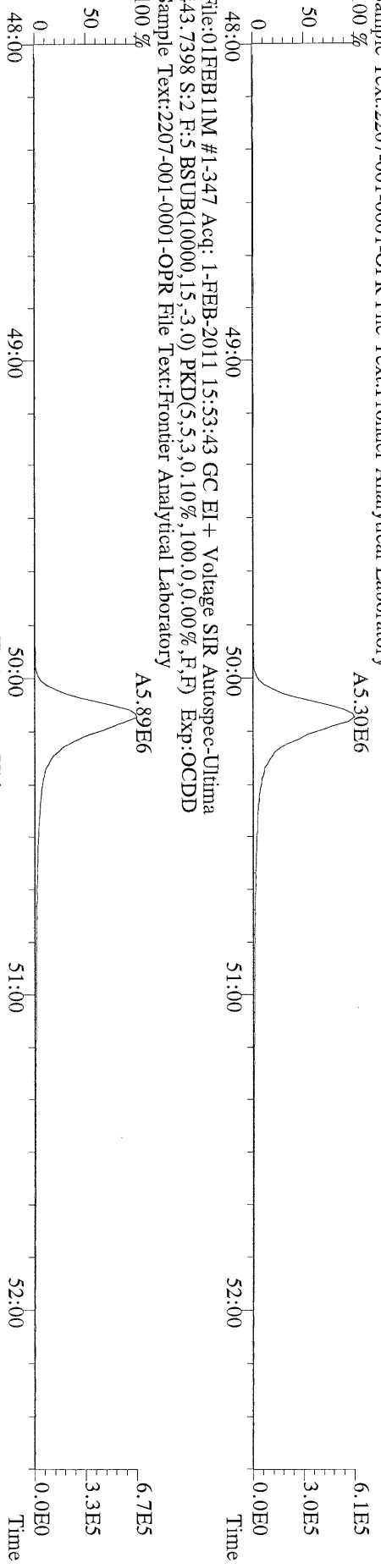
File:01FEB11M #1-541 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Utima
419.8220 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



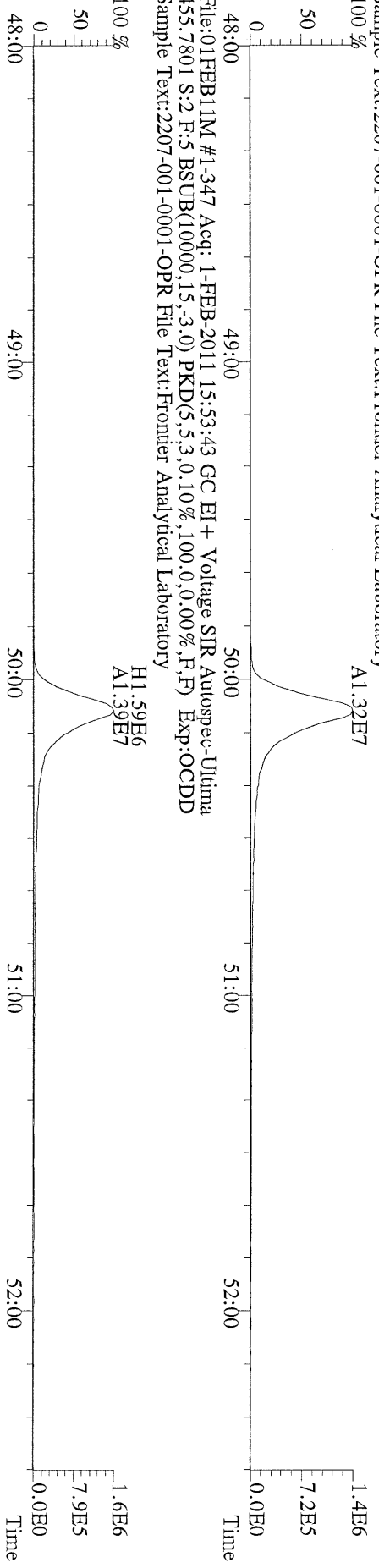
File:01FEB11M #1-541 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Utima
479.7165 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



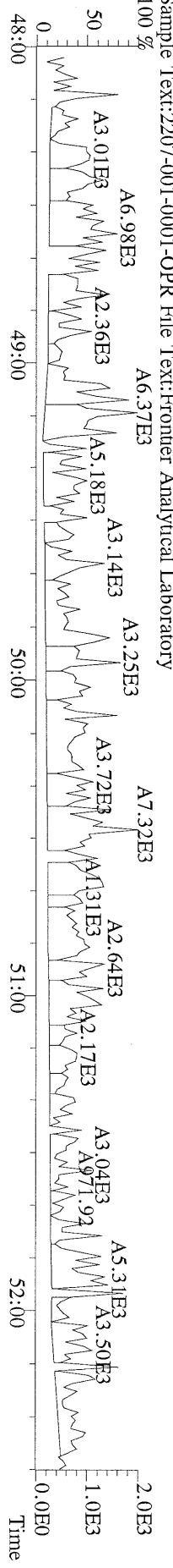
File:01FEB11M #1-347 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



File:01FEB11M #1-347 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



File:01FEB11M #1-347 Acq: 1-FEB-2011 15:53:43 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:2207-001-0001-OPR File Text:Frontier Analytical Laboratory



Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.11	*		2.50	691	793	1.26	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.10	*		2.50	976	860	1.88	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	1080	992	2.23	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	1080	992	2.83	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.36	*		2.50	1080	992	2.54	
1,2,3,4,6,7,8-HpCDD	2.86e+05	0.89 y	44:11	1.45	26.5		2.50	-	-	*	
OCDD	1.28e+06	0.87 y	49:46	1.43	166		2.50	-	-	*	
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	1300	1480	0.991	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	932	1040	1.47	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	932	1040	1.52	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	908	796	1.73	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.82	*		2.50	908	796	1.76	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.92	*		2.50	908	796	1.88	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	908	796	2.04	
1,2,3,4,6,7,8-HpCDF	6.13e+04	0.98 y	42:16	1.39	5.71	J	2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.36	*		2.50	905	603	2.97	
OCDF	1.25e+05	0.92 y	50:07	0.79	17.8	J	2.50	-	-	*	
13C-2,3,7,8-TCDD	2.53e+07	0.76 y	27:20	1.02	1500					75.0	
13C-1,2,3,7,8-PeCDD	2.45e+07	1.71 y	33:09	0.84	1760					88.4	
13C-1,2,3,4,7,8-HxCDD	1.75e+07	1.25 y	38:33	1.07	1600					80.1	
13C-1,2,3,6,7,8-HxCDD	1.67e+07	1.24 y	38:42	1.01	1610					80.7	
13C-1,2,3,4,6,7,8-HpCDD	1.48e+07	0.97 y	44:10	0.86	1690					84.9	
13C-OCDD	2.15e+07	0.93 y	49:43	0.55	3840					96.3	
13C-2,3,7,8-TCDF	4.08e+07	0.88 y	26:35	0.99	1490					74.9	
13C-1,2,3,7,8-PeCDF	3.83e+07	1.68 y	31:26	0.84	1670					83.5	
13C-2,3,4,7,8-PeCDF	3.71e+07	1.67 y	32:45	0.81	1660					83.3	
13C-1,2,3,4,7,8-HxCDF	2.89e+07	0.49 y	37:09	1.85	1530					76.6	
13C-1,2,3,6,7,8-HxCDF	3.73e+07	0.48 y	37:21	2.54	1440					72.1	
13C-2,3,4,6,7,8-HxCDF	2.85e+07	0.49 y	38:18	2.01	1380					69.3	
13C-1,2,3,7,8,9-HxCDF	2.93e+07	0.49 y	39:45	2.03	1410					70.6	
13C-1,2,3,4,6,7,8-HpCDF	1.54e+07	0.48 y	42:15	1.11	1360					68.0	
13C-1,2,3,4,7,8,9-HpCDF	1.25e+07	0.49 y	45:05	0.80	1520					76.3	
13C-OCDF	3.56e+07	0.91 y	50:07	1.08	3210					80.5	
37Cl-2,3,7,8-TCDD	6.74e+06		27:21	0.69	595					74.6	
13C-1,2,3,4-TCDD	3.30e+07	0.78 y	26:44	-	73.1						
13C-1,2,3,4-TCDF	5.48e+07	0.88 y	25:29	-	75.5						
13C-1,2,3,7,8,9-HxCDD	2.04e+07	1.23 y	39:09	-	73.8						
Total Tetra-Dioxins	*		NotFnd	1.11	*		2.50	691	793	1.26	0
Total Penta-Dioxins	*		NotFnd	1.10	*		2.50	1210	1490	2.76	0
Total Hexa-Dioxins	1.17e+05		36:06	1.37	9.94	J	2.50	-	-	*	2
Total Hepta-Dioxins	5.39e+05		42:48	1.45	49.9		2.50	-	-	*	2
Total Tetra-Furans	4.43e+05		25:43	1.50	14.4	D,M	2.50	-	-	*	3
1st Fn. Tot Penta-Furans	*		NotFnd	0.94	*	D,J,M	2.50	-	-	* PeCDF	0
Total Penta-Furans	3.18e+05		31:16	0.94	17.9	D,J,M	2.50	-	-	* 17.9	4
Total Hexa-Furans	1.57e+05		36:24	0.91	11.1	J	2.50	-	-	*	2
Total Hepta-Furans	2.03e+05		42:16	1.38	20.4	J	2.50	-	-	*	2

Analyst: 

Date: 2/2/11

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 11

File: 01FEB11M

S: 4 I: 1 F: 3

Acquired: 1-FEB-11 17:44:25

Total Concentration: 9.94

Unnamed Concentration: 9.935

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
36:06	2.54e+04	1.95e+04 1.30 y	4.48e+04	3.81	
37:27	4.02e+04	3.17e+04 1.27 y	7.19e+04	6.12	

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 11

File: 01FEB11M

S: 4 I: 1 F: 4

Acquired: 1-FEB-11 17:44:25

Total Concentration: 49.9

Unnamed Concentration: 23.377

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:48	1.21e+05	1.32e+05	0.92 y	2.53e+05	23.4	
44:11	1.35e+05	1.52e+05	0.89 y	2.86e+05	26.5	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 11

File: 01FEB11M

S: 4 I: 1 F: 1

Acquired: 1-FEB-11 17:44:25

Total Concentration: 14.4

Unnamed Concentration: 14.426

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
25:43	8.60e+04	1.28e+05 0.67 y	2.14e+05	6.95	
27:48	6.52e+04	8.33e+04 0.78 y	1.48e+05	4.83	
27:59	3.29e+04	4.82e+04 0.68 y	8.11e+04	2.64	

Totals class: Total Penta-Furans

Entry #: 44

Run: 11

File: 01FEB11M

S: 4 I: 1 F: 2

Acquired: 1-FEB-11 17:44:25

Total Concentration: 17.9

Unnamed Concentration: 17.911

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
31:16	8.59e+04	5.19e+04	1.66 y	1.38e+05	7.77	
31:41	6.85e+04	4.52e+04	1.52 y	1.14e+05	6.40	
32:00	2.13e+04	1.51e+04	1.42 y	3.64e+04	2.05	
34:03	1.77e+04	1.23e+04	1.44 y	3.01e+04	1.69	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 11

File: 01FEB11M

S: 4 I: 1 F: 3

Acquired: 1-FEB-11 17:44:25

Total Concentration: 11.1

Unnamed Concentration: 11.130

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:24	1.81e+04	1.69e+04	1.07 y	3.50e+04	2.47	
38:02	6.75e+04	5.50e+04	1.23 y	1.22e+05	8.66	

Totals class: Total Hepta-Furans

Entry #: 46

Run: 11

File: 01FEB11M

S: 4 I: 1 F: 4

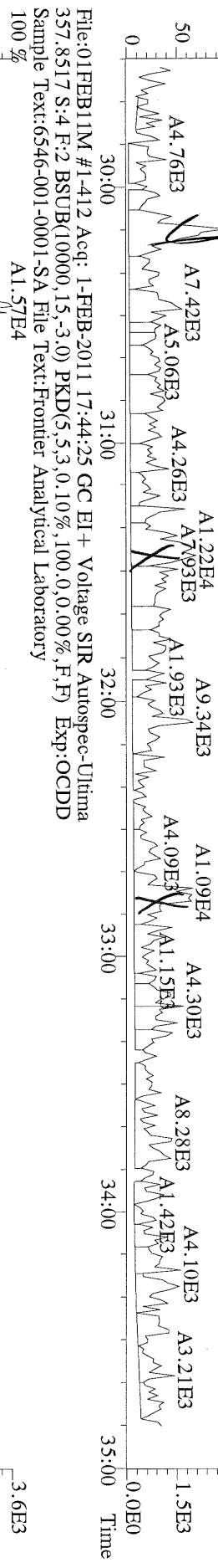
Acquired: 1-FEB-11 17:44:25

Total Concentration: 20.4

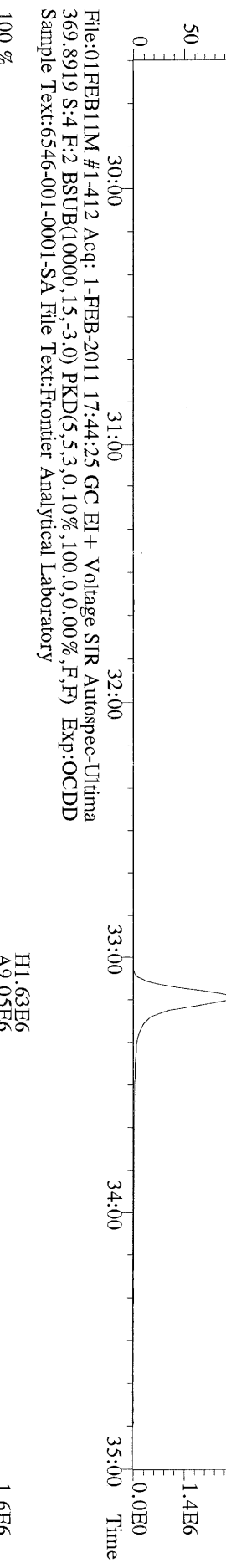
Unnamed Concentration: 14.698

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:16	3.03e+04	3.10e+04	0.98 y	6.13e+04	5.71	1,2,3,4,6,7,8-HpCDF
43:06	7.46e+04	6.69e+04	1.12 y	1.42e+05	14.7	

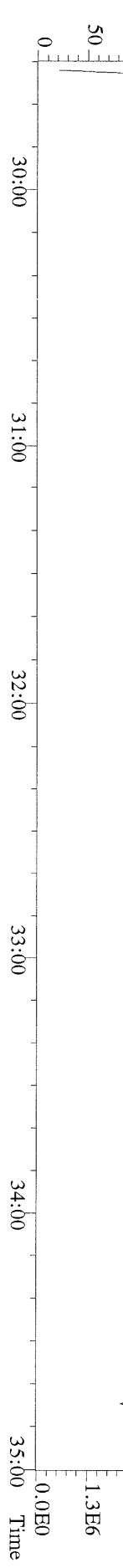
File:01FEB11M #1-412 Acq: 1-FEB-2011 17:44:25 GC EI+ Voltage SIR Autospec-Ultima
 355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



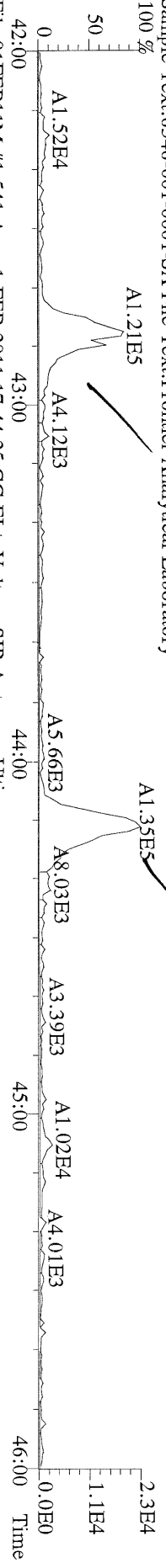
File:01FEB11M #1-412 Acq: 1-FEB-2011 17:44:25 GC EI+ Voltage SIR Autospec-Ultima
 367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



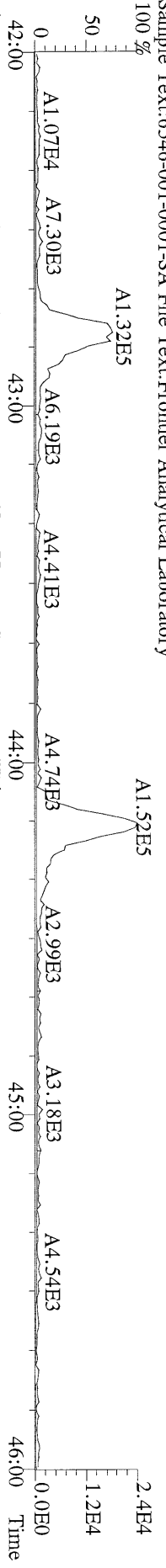
File:01FEB11M #1-412 Acq: 1-FEB-2011 17:44:25 GC EI+ Voltage SIR Autospec-Ultima
 366.9792 S:4 F:2 Exp:OCDD
 Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



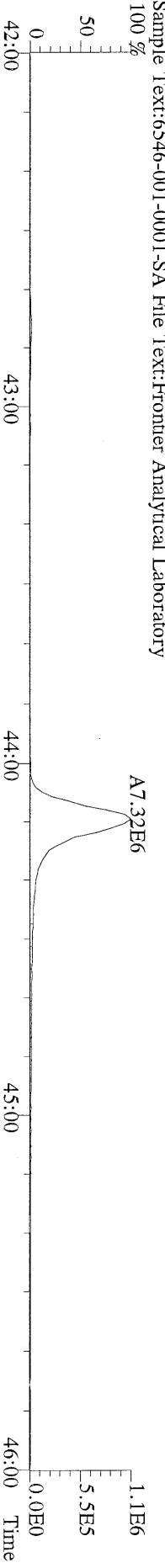
File:01FEB11M #1-541 Acq: 1-FEB-2011 17:44:25 GC EI+ Voltage SIR Autospec-Utima
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



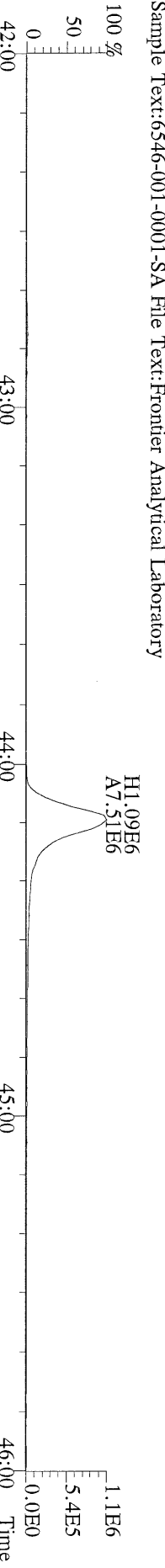
File:01FEB11M #1-541 Acq: 1-FEB-2011 17:44:25 GC EI+ Voltage SIR Autospec-Utima
425.7737 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



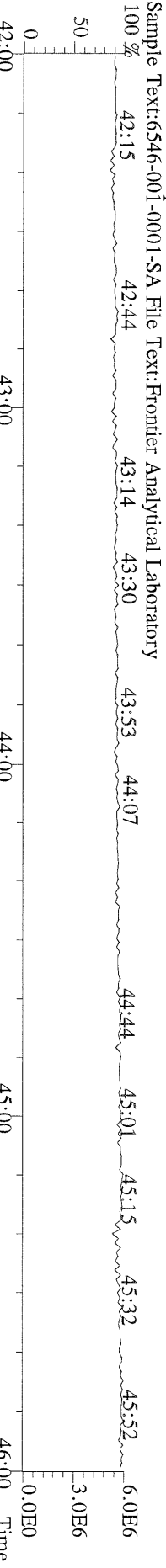
File:01FEB11M #1-541 Acq: 1-FEB-2011 17:44:25 GC EI+ Voltage SIR Autospec-Utima
435.8169 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



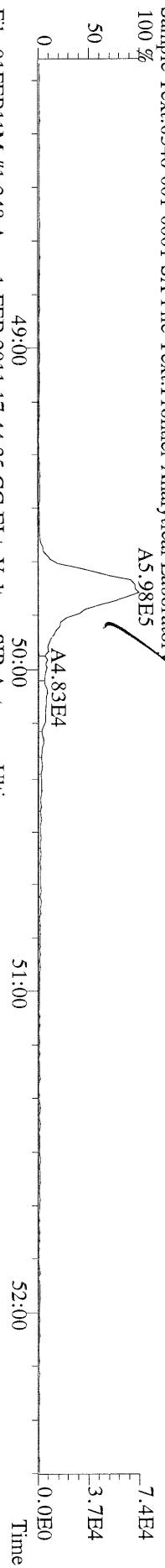
File:01FEB11M #1-541 Acq: 1-FEB-2011 17:44:25 GC EI+ Voltage SIR Autospec-Utima
437.8140 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



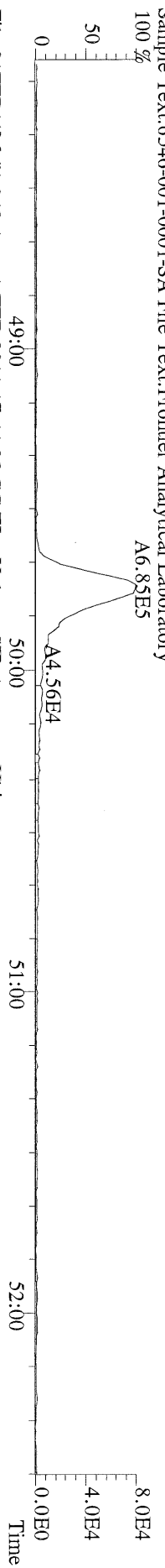
File:01FEB11M #1-541 Acq: 1-FEB-2011 17:44:25 GC EI+ Voltage SIR Autospec-Utima
430.9728 S:4 F:4 Exp:OCDD
Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



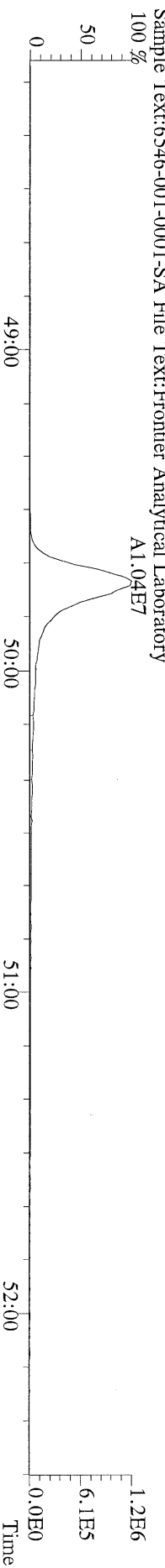
File:01FEB11M #1-348 Acq: 1-FEB-2011 17:44:25 GC EI + Voltage SIR Autospec-Ultima
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



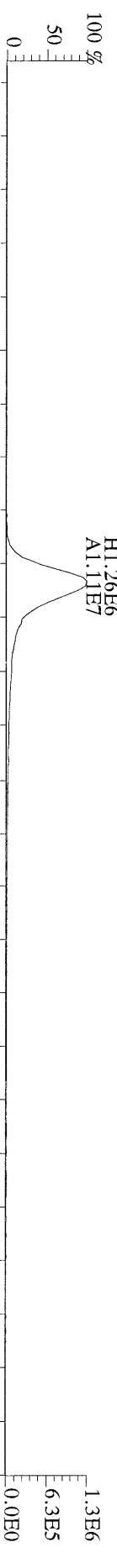
File:01FEB11M #1-348 Acq: 1-FEB-2011 17:44:25 GC EI + Voltage SIR Autospec-Ultima
459.7348 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



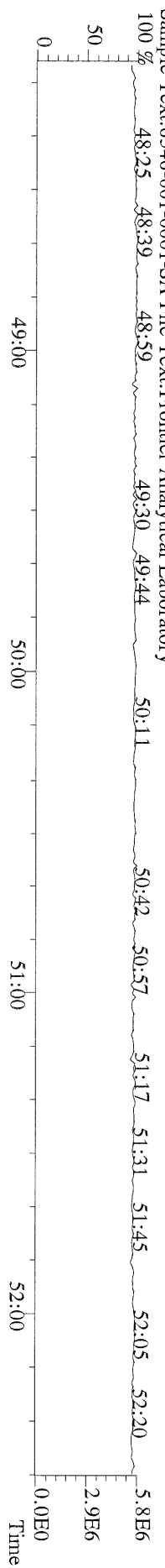
File:01FEB11M #1-348 Acq: 1-FEB-2011 17:44:25 GC EI + Voltage SIR Autospec-Ultima
469.7780 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



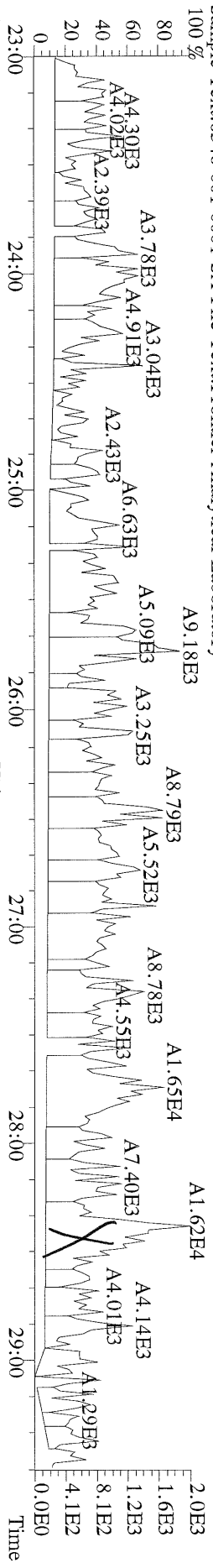
File:01FEB11M #1-348 Acq: 1-FEB-2011 17:44:25 GC EI + Voltage SIR Autospec-Ultima
471.7750 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



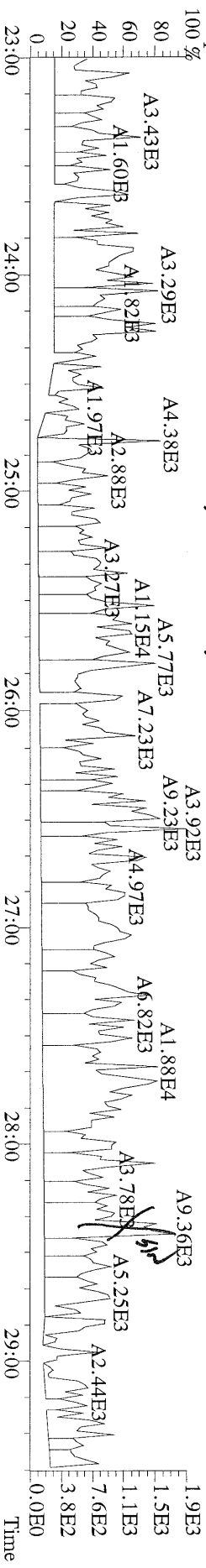
File:01FEB11M #1-348 Acq: 1-FEB-2011 17:44:25 GC EI + Voltage SIR Autospec-Ultima
454.9728 S:4 F:5 Exp:OCDD
Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



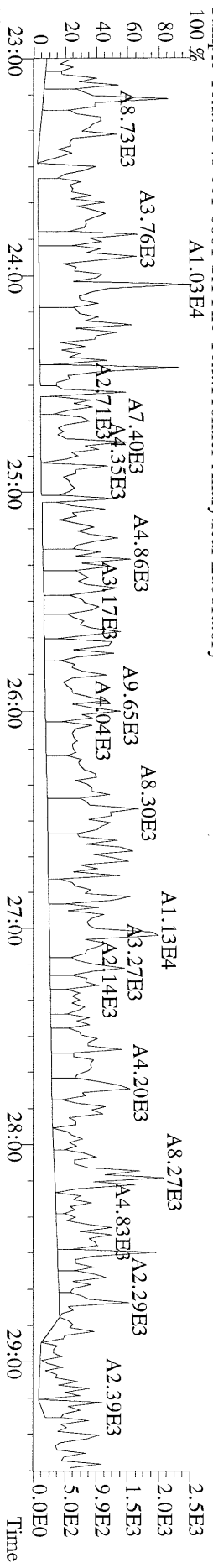
File:01FEB11M #1-425 Acq: 1-FEB-2011 17:44:25 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



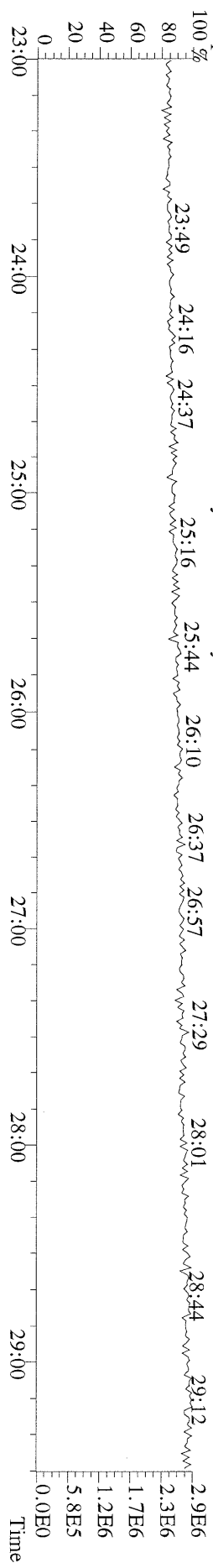
File:01FEB11M #1-425 Acq: 1-FEB-2011 17:44:25 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



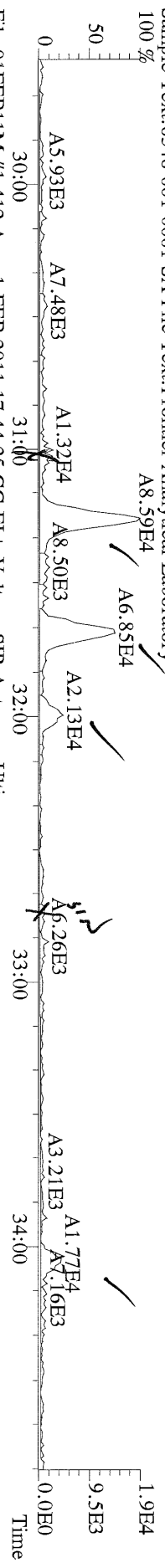
File:01FEB11M #1-425 Acq: 1-FEB-2011 17:44:25 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



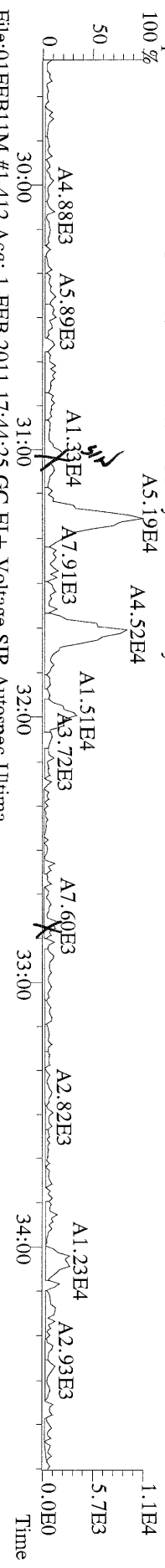
File:01FEB11M #1-425 Acq: 1-FEB-2011 17:44:25 GC EI+ Voltage SIR Autospec-Ultima
 316.9824 S:4 Exp:OCDD
 Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



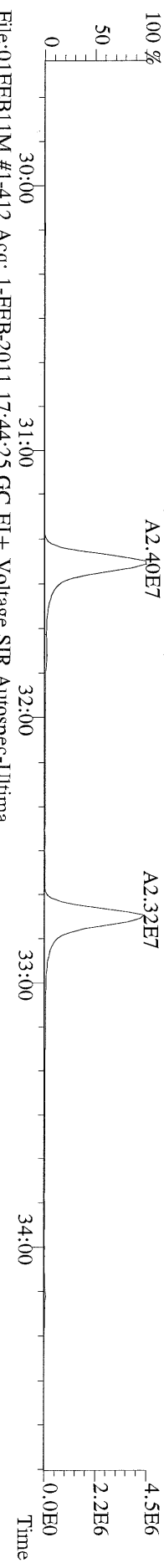
File:01FEB11M #1-412 Acq: 1-FEB-2011 17:44:25 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



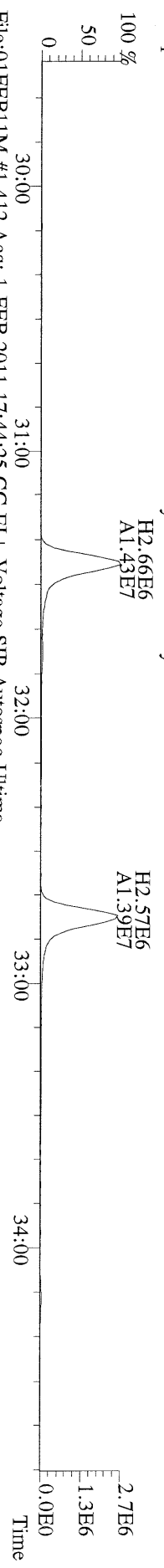
File:01FEB11M #1-412 Acq: 1-FEB-2011 17:44:25 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



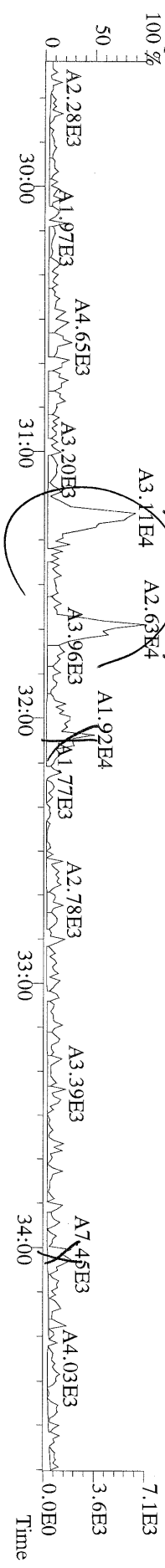
File:01FEB11M #1-412 Acq: 1-FEB-2011 17:44:25 GC EI+ Voltage SIR Autospec-Ultima
 351.9000 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



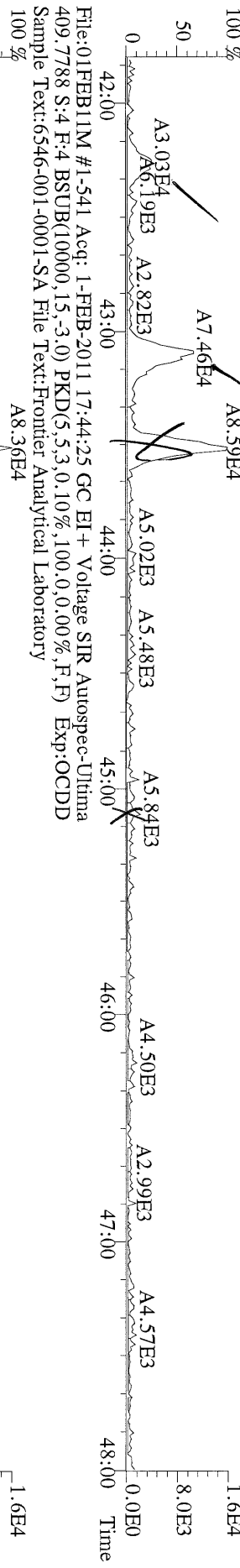
File:01FEB11M #1-412 Acq: 1-FEB-2011 17:44:25 GC EI+ Voltage SIR Autospec-Ultima
 353.8970 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



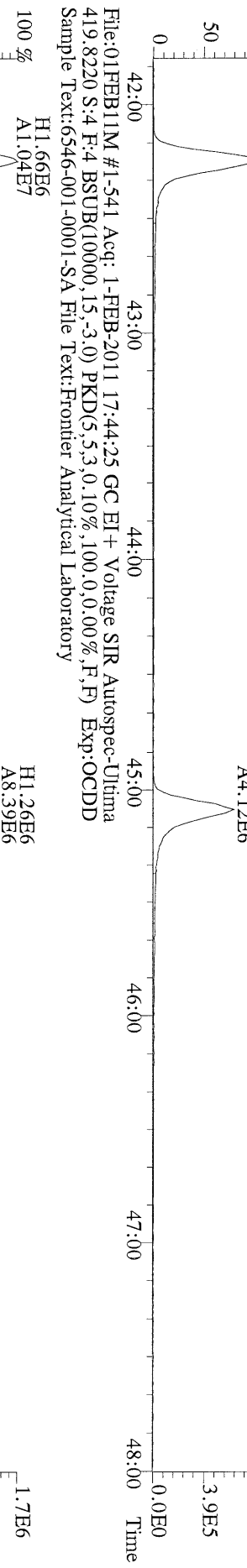
File:01FEB11M #1-412 Acq: 1-FEB-2011 17:44:25 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



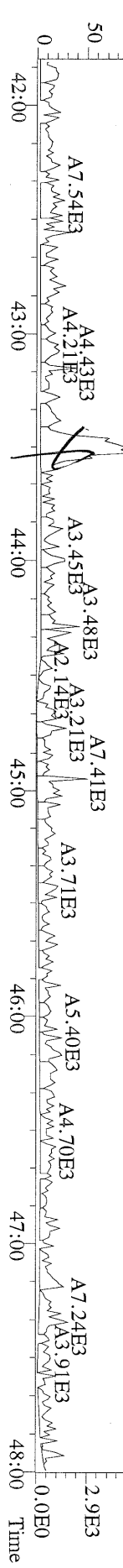
File:01FEB11M #1-541 Acq: 1-FEB-2011 17:44:25 GC EI+ Voltage SIR Autospec-Utima
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



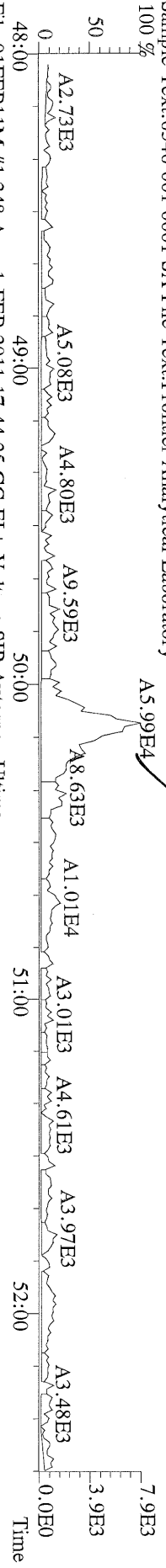
File:01FEB11M #1-541 Acq: 1-FEB-2011 17:44:25 GC EI+ Voltage SIR Autospec-Utima
417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



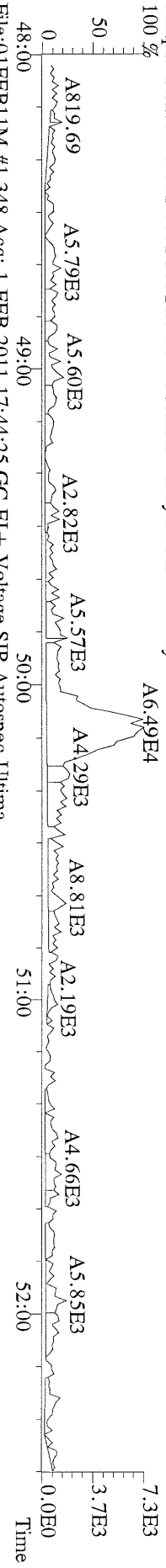
File:01FEB11M #1-541 Acq: 1-FEB-2011 17:44:25 GC EI+ Voltage SIR Autospec-Utima
479.7165 S:4 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



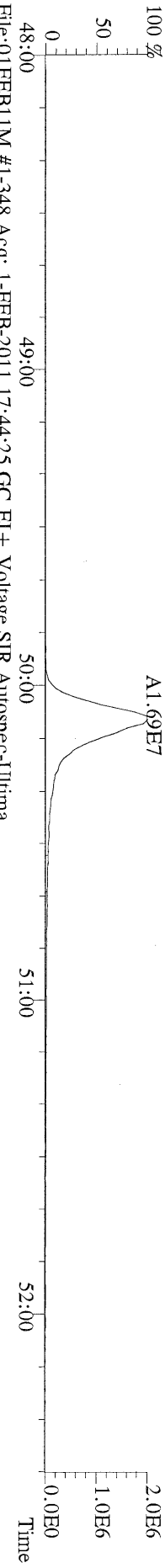
File:01FEB11M #1-348 Acq: 1-FEB-2011 17:44:25 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



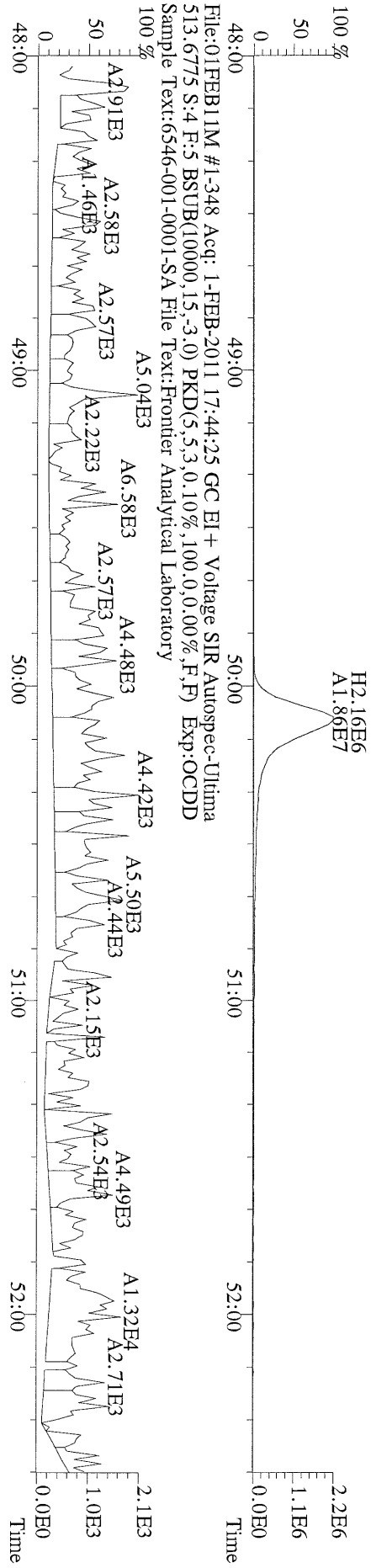
File:01FEB11M #1-348 Acq: 1-FEB-2011 17:44:25 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory




File:01FEB11M #1-348 Acq: 1-FEB-2011 17:44:25 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



File:01FEB11M #1-348 Acq: 1-FEB-2011 17:44:25 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-001-0001-SA File Text:Frontier Analytical Laboratory



Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.11	*		2.50	581	778	2.62	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.10	*		2.50	864	788	4.11	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	1120	752	4.87	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	1120	752	6.15	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.36	*		2.50	1120	752	5.54	
1,2,3,4,6,7,8-HpCDD	4.00e+04	0.89 y	44:13	1.45	9.05	J	2.50	-	-	*	
OCDD	1.39e+05	0.95 y	49:46	1.43	43.2	J	2.50	-	-	*	
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	1080	1100	1.92	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	700	832	2.68	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	700	832	2.93	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	928	880	4.23	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.82	*		2.50	928	880	4.14	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.92	*		2.50	928	880	4.74	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	928	880	5.13	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.39	*		2.50	852	748	5.92	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.36	*		2.50	852	748	8.21	
OCDF	*	* n	NotFnd	0.79	*		2.50	764	832	11.5	
13C-2,3,7,8-TCDD	2.40e+07	0.85 y	27:19	1.02	3790					85.8	
13C-1,2,3,7,8-PeCDD	2.31e+07	1.74 y	33:10	0.84	4440					100	
13C-1,2,3,4,7,8-HxCDD	1.63e+07	1.25 y	38:33	1.07	4010					90.6	
13C-1,2,3,6,7,8-HxCDD	1.56e+07	1.22 y	38:43	1.01	4070					92.0	
13C-1,2,3,4,6,7,8-HpCDD	1.35e+07	1.02 y	44:10	0.86	4140					93.7	
13C-OCDD	1.98e+07	1.00 y	49:44	0.55	9590					108	
13C-2,3,7,8-TCDF	3.84e+07	0.88 y	26:35	0.99	3700					83.5	
13C-1,2,3,7,8-PeCDF	3.56e+07	1.70 y	31:25	0.84	4070					91.9	
13C-2,3,4,7,8-PeCDF	3.49e+07	1.62 y	32:45	0.81	4120					93.1	
13C-1,2,3,4,7,8-HxCDF	2.75e+07	0.49 y	37:09	1.85	3920					88.7	
13C-1,2,3,6,7,8-HxCDF	3.52e+07	0.49 y	37:21	2.54	3660					82.8	
13C-2,3,4,6,7,8-HxCDF	2.75e+07	0.51 y	38:18	2.01	3600					81.3	
13C-1,2,3,7,8,9-HxCDF	2.71e+07	0.48 y	39:44	2.03	3520					79.5	
13C-1,2,3,4,6,7,8-HpCDF	1.45e+07	0.51 y	42:14	1.11	3440					77.8	
13C-1,2,3,4,7,8,9-HpCDF	1.11e+07	0.49 y	45:05	0.80	3660					82.6	
13C-OCDF	3.36e+07	0.93 y	50:07	1.08	8180					92.5	
37Cl-2,3,7,8-TCDD	6.54e+06		27:20	0.69	1540					87.2	
13C-1,2,3,4-TCDD	2.74e+07	0.81 y	26:44	-	135						
13C-1,2,3,4-TCDF	4.62e+07	0.88 y	25:29	-	141						
13C-1,2,3,7,8,9-HxCDD	1.68e+07	1.20 y	39:10	-	135						
Total Tetra-Dioxins	*		NotFnd	1.11	*		2.50	581	778	2.62	0
Total Penta-Dioxins	*		NotFnd	1.10	*		2.50	864	788	4.11	0
Total Hexa-Dioxins	*		NotFnd	1.37	*		2.50	1120	752	6.15	0
Total Hepta-Dioxins	8.43e+04		42:49	1.45	19.1	J	2.50	-	-	*	2
Total Tetra-Furans	*		NotFnd	1.50	*		2.50	1080	1100	1.92	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.94	*		2.50	700	832	2.93	0
Total Penta-Furans	*		NotFnd	0.94	*		2.50	700	832	2.93	0
Total Hexa-Furans	*		NotFnd	0.91	*		2.50	928	880	5.13	0
Total Hepta-Furans	*		NotFnd	1.38	*		2.50	852	748	8.21	0

Analyst: 

Date: 2/2/11

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 12

File: 01FEB11M

S: 5 I: 1 F: 4

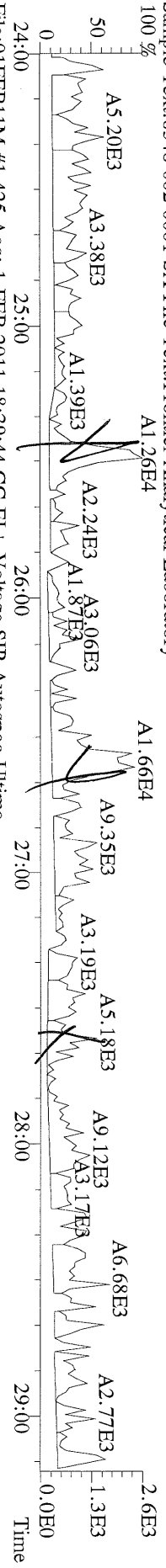
Acquired: 1-FEB-11 18:39:44

Total Concentration: 19.1

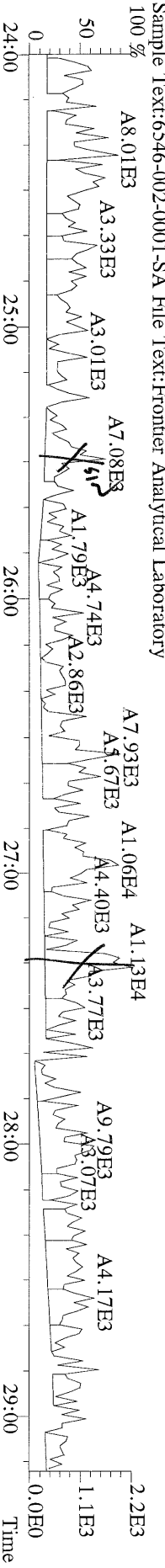
Unnamed Concentration: 10.030

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:49	2.18e+04	2.25e+04	0.97 y	4.43e+04	10.0	
44:13	1.88e+04	2.12e+04	0.89 y	4.00e+04	9.05	1,2,3,4,6,7,8-HpCDD

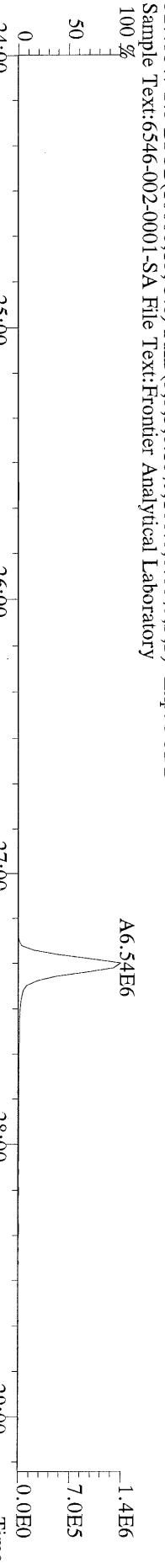
File:01FEB11M #1-425 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



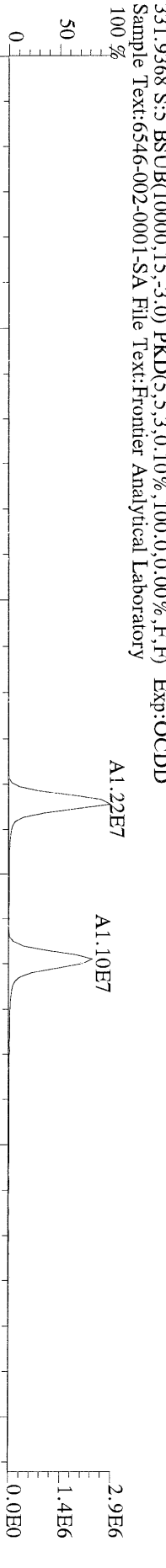
File:01FEB11M #1-425 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



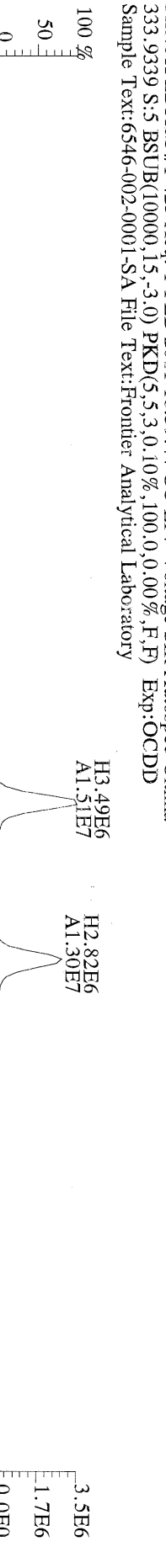
File:01FEB11M #1-425 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



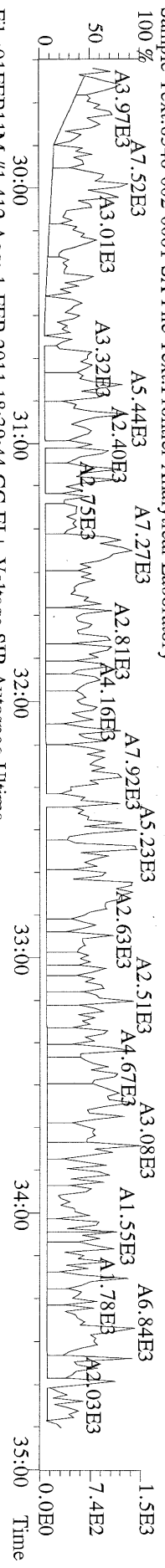
File:01FEB11M #1-425 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



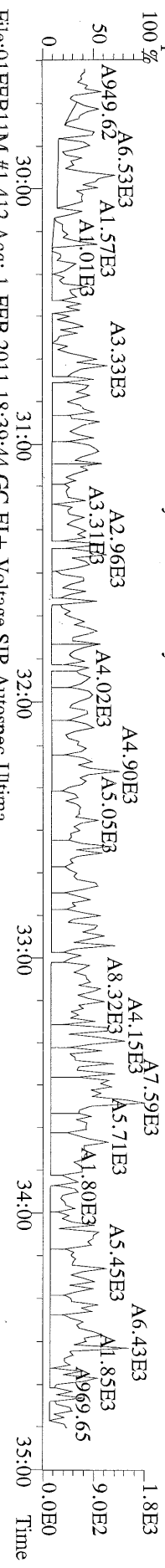
File:01FEB11M #1-425 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



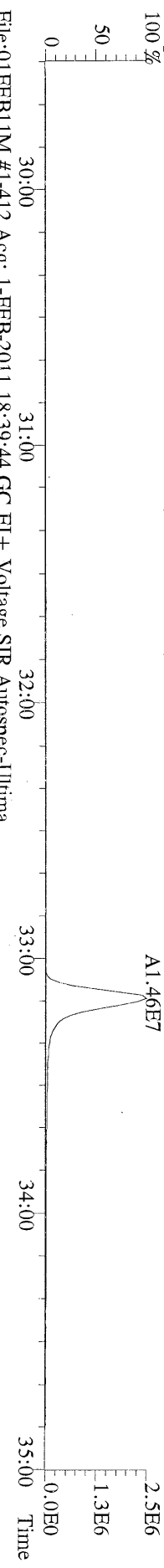
File:01FEB11M #1-412 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



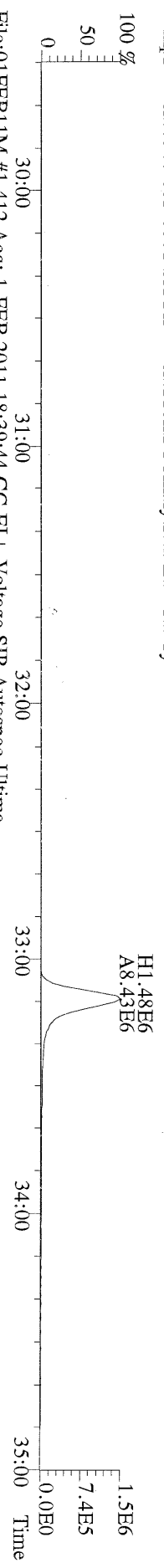
File:01FEB11M #1-412 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



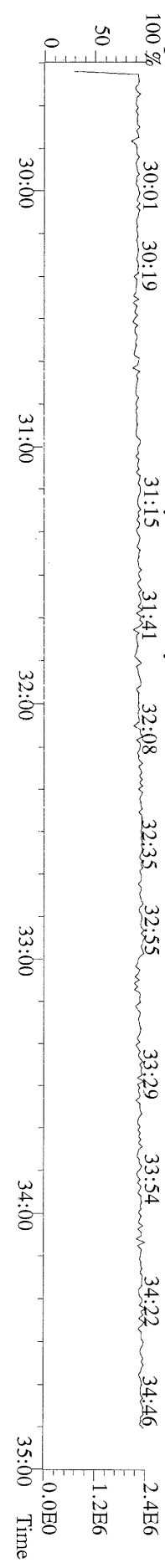
File:01FEB11M #1-412 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



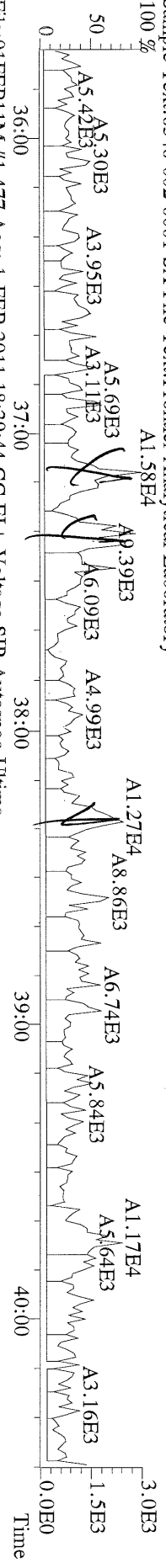
File:01FEB11M #1-412 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



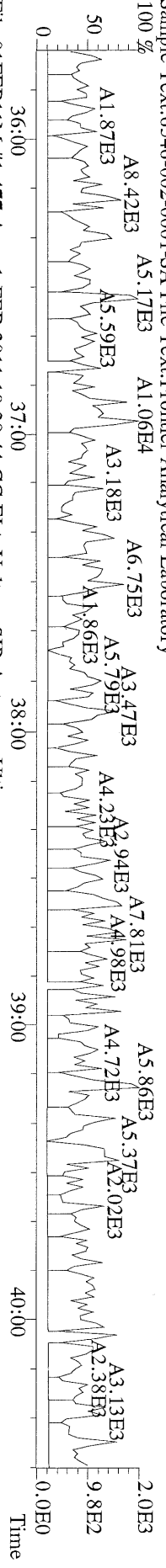
File:01FEB11M #1-412 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:5 F:2 Exp:OCDD
Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



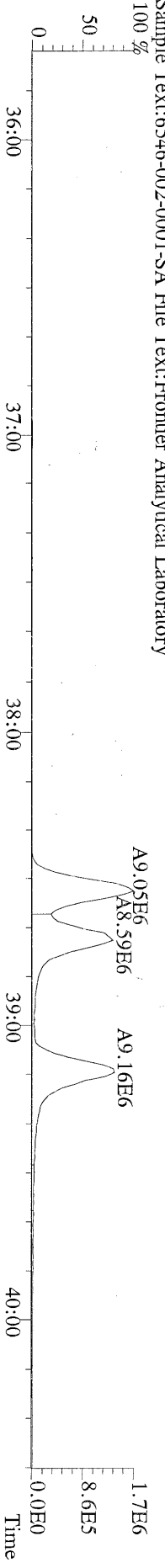
File:01FEB11M #1-477 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
 389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



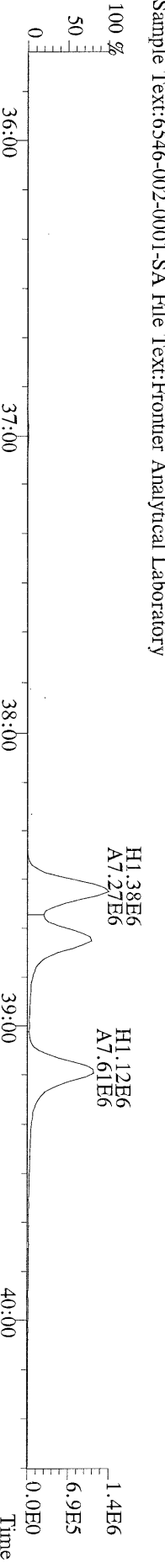
File:01FEB11M #1-477 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
 391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



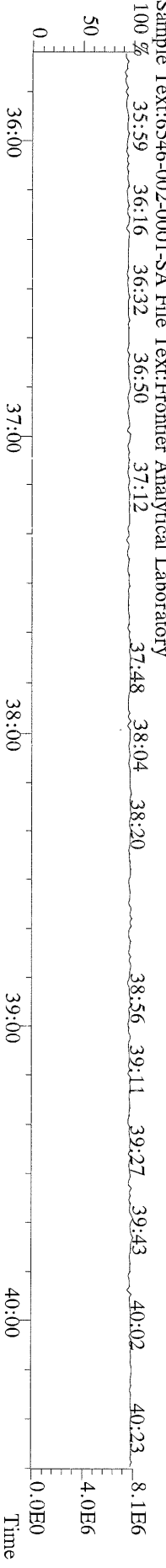
File:01FEB11M #1-477 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
 401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



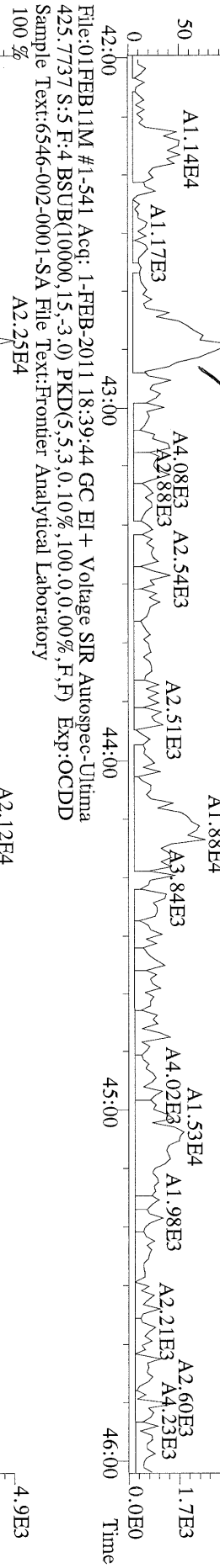
File:01FEB11M #1-477 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
 403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



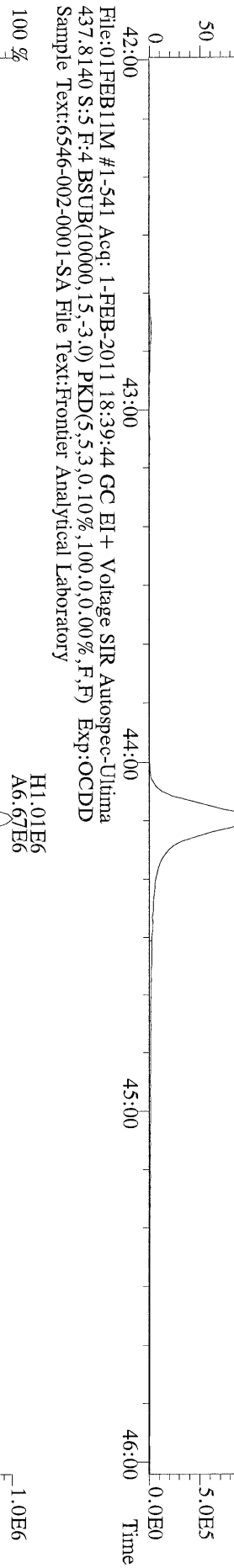
File:01FEB11M #1-477 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
 380.9760 S:5 F:3 Exp:OCDD
 Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



File:01FEB11M #1-541 Acq: 1-FEB-2011 18:39:44 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:6546-002-0001-SA File Text:Frontier Analytical Laboratory



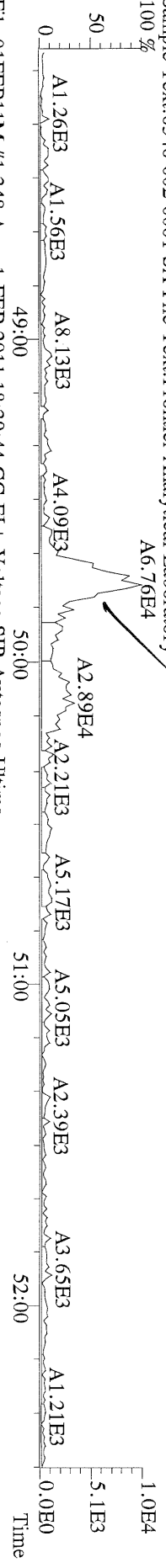
File:01FEB11M #1-541 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



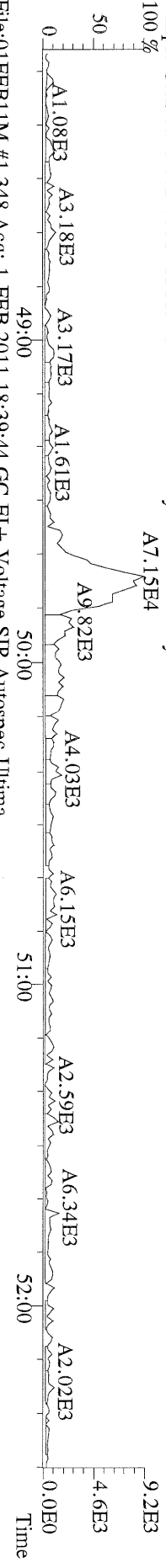
File:01FEB11M #1-541 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:5 F:4 Exp:OCDD
Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



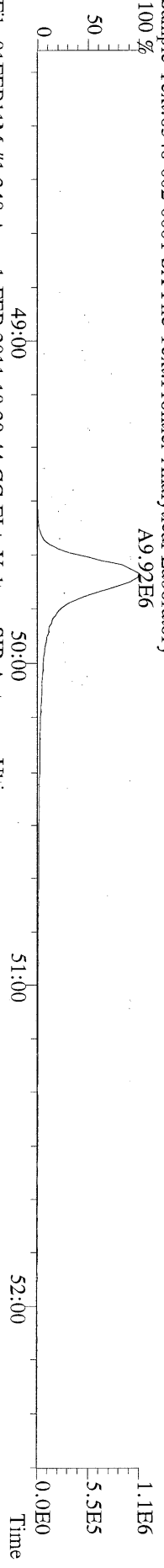
File:01FEB11M #1-348 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
 457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



File:01FEB11M #1-348 Acq: 1-FEB-2011 18:39:44 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:6546-002-0001-SA File Text:Frontier Analytical Laboratory



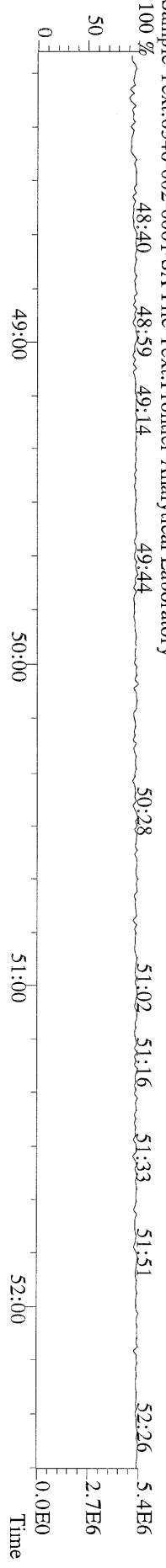
File:01FEB11M #1-348 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
 469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



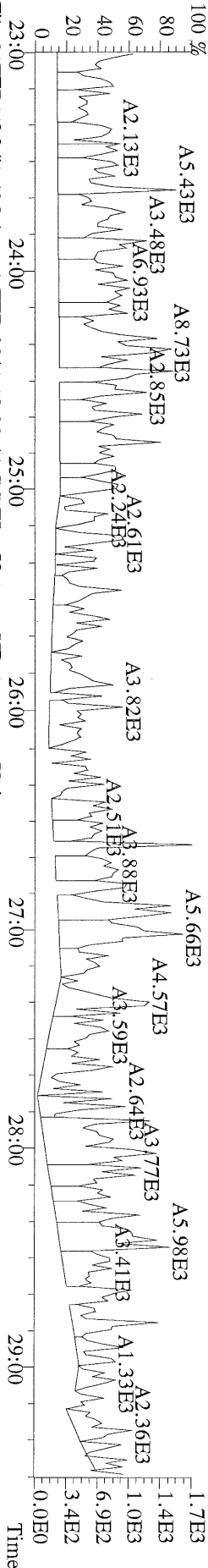
File:01FEB11M #1-348 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
 471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



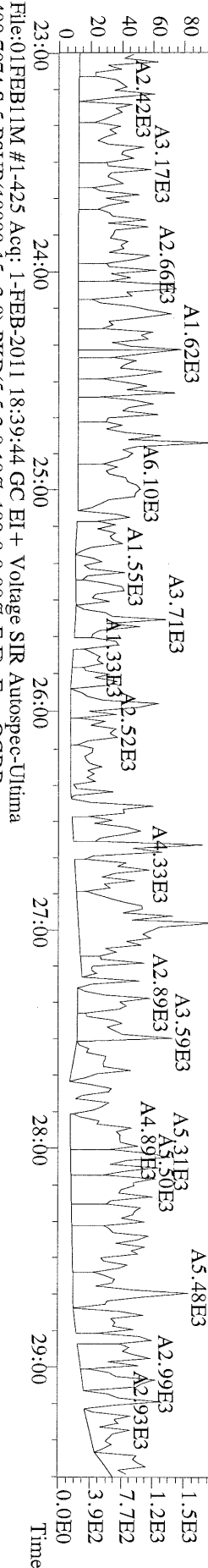
File:01FEB11M #1-348 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
 454.9728 S:5 F:5 Exp:OCDD
 Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



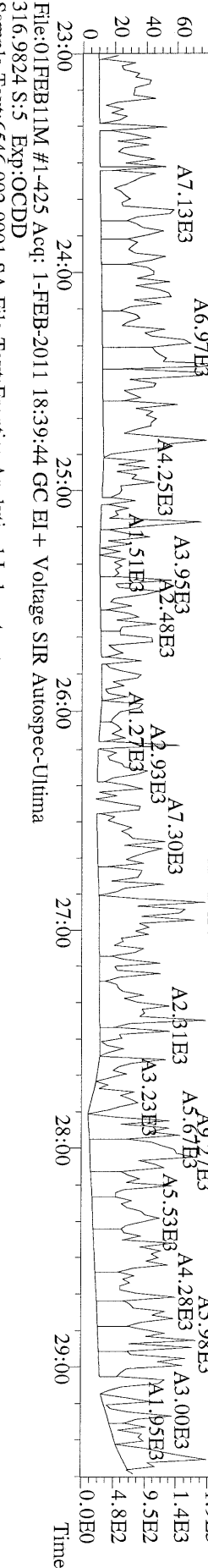
File:01FEB11M #1-425 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



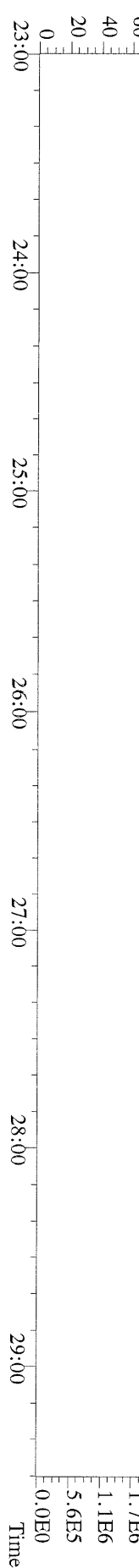
File:01FEB11M #1-425 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



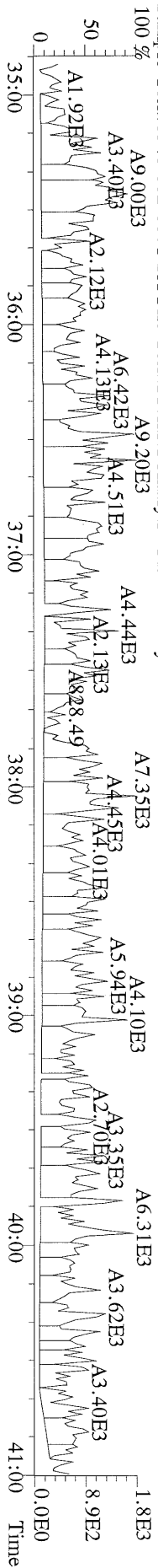
File:01FEB11M #1-425 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



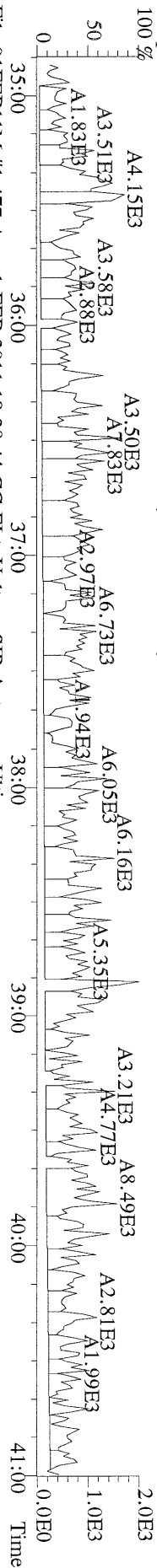
File:01FEB11M #1-425 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
 316.9824 S:5 Exp:OCDD
 Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



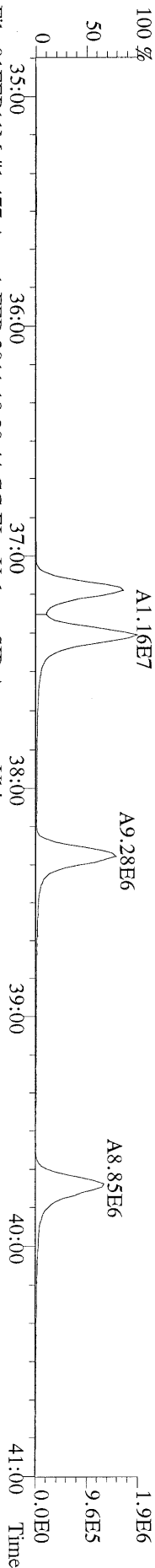
File:01FEB11M #1-477 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



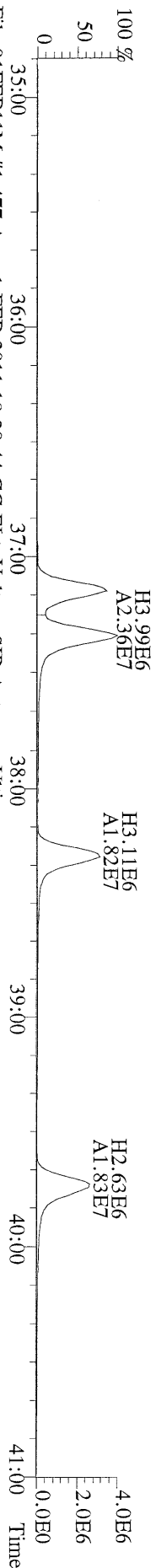
File:01FEB11M #1-477 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



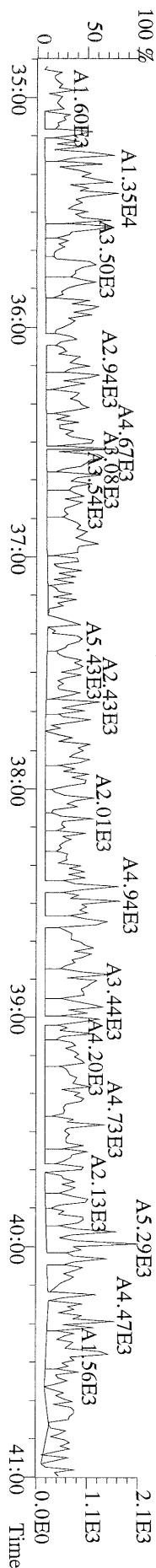
File:01FEB11M #1-477 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



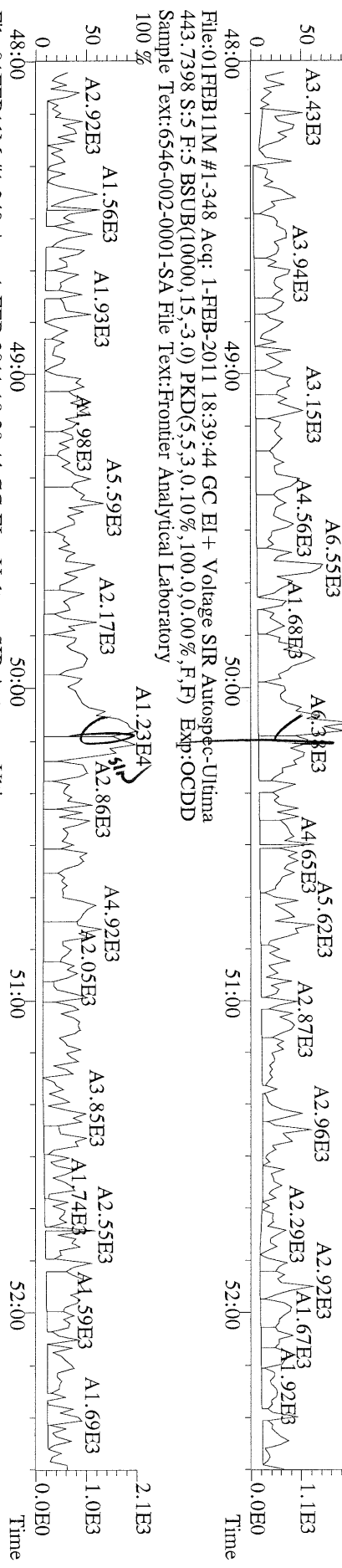
File:01FEB11M #1-477 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



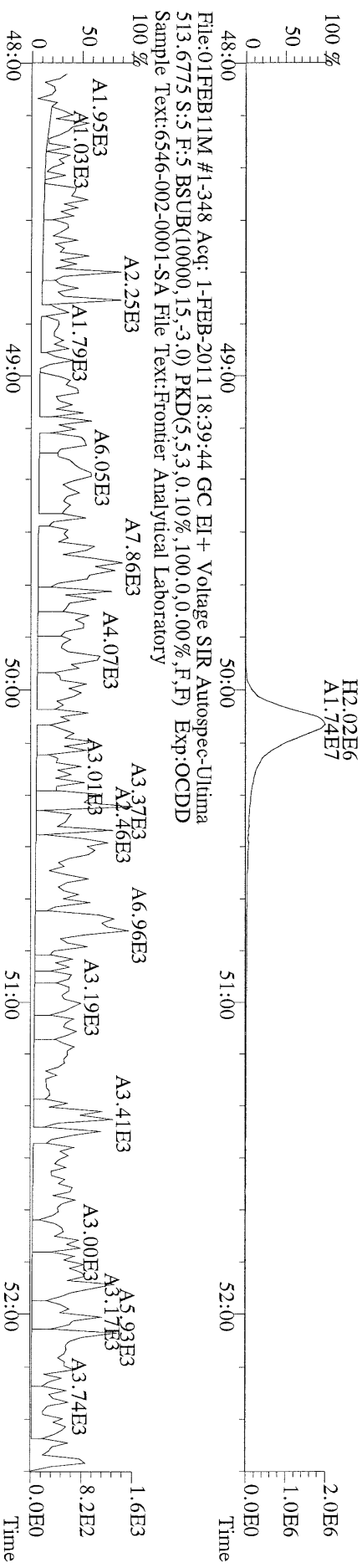
File:01FEB11M #1-477 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-002-0001-SA File Text:Frontier Analytical Laboratory



File:01FEB11M #1-348 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
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:6546-002-0001-SA File Text:Frontier Analytical Laboratory




File:01FEB11M #1-348 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
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:6546-002-0001-SA File Text:Frontier Analytical Laboratory



File:01FEB11M #1-348 Acq: 1-FEB-2011 18:39:44 GC EI+ Voltage SIR Autospec-Ultima
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:6546-002-0001-SA File Text:Frontier Analytical Laboratory



Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.11	*		2.50	668	942	1.57	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.10	*		2.50	1010	944	2.54	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	868	900	2.51	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	868	900	3.17	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.36	*		2.50	868	900	2.86	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.45	*		2.50	784	768	3.05	
OCDD	5.49e+04	0.96 y	49:46	1.43	9.14	J	2.50	-	-	*	
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	1090	1220	1.06	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	796	852	1.54	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	796	852	1.62	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	828	764	2.03	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.82	*		2.50	828	764	1.93	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.92	*		2.50	828	764	2.18	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	828	764	2.47	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.39	*		2.50	712	688	2.52	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.36	*		2.50	712	688	3.49	
OCDF	*	* n	NotFnd	0.79	*		2.50	976	1100	7.91	
13C-2,3,7,8-TCDD	2.16e+07	0.77 y	27:19	1.02	1590					81.9	
13C-1,2,3,7,8-PeCDD	1.96e+07	1.72 y	33:10	0.84	1760					90.7	
13C-1,2,3,4,7,8-HxCDD	1.36e+07	1.23 y	38:32	1.07	1640					84.3	
13C-1,2,3,6,7,8-HxCDD	1.30e+07	1.24 y	38:42	1.01	1660					85.4	
13C-1,2,3,4,6,7,8-HpCDD	1.19e+07	0.96 y	44:09	0.86	1810					93.0	
13C-OCDD	1.63e+07	0.96 y	49:44	0.55	3850					99.2	
13C-2,3,7,8-TCDF	3.43e+07	0.86 y	26:34	0.99	1600					82.5	
13C-1,2,3,7,8-PeCDF	3.05e+07	1.69 y	31:25	0.84	1690					87.1	
13C-2,3,4,7,8-PeCDF	2.96e+07	1.70 y	32:46	0.81	1690					87.1	
13C-1,2,3,4,7,8-HxCDF	2.29e+07	0.48 y	37:09	1.85	1600					82.3	
13C-1,2,3,6,7,8-HxCDF	2.98e+07	0.49 y	37:21	2.54	1520					78.4	
13C-2,3,4,6,7,8-HxCDF	2.41e+07	0.50 y	38:18	2.01	1550					79.8	
13C-1,2,3,7,8,9-HxCDF	2.24e+07	0.49 y	39:44	2.03	1430					73.6	
13C-1,2,3,4,6,7,8-HpCDF	1.23e+07	0.49 y	42:15	1.11	1440					74.1	
13C-1,2,3,4,7,8,9-HpCDF	1.03e+07	0.50 y	45:05	0.80	1660					85.6	
13C-OCDF	2.80e+07	0.94 y	50:06	1.08	3350					86.3	
37Cl-2,3,7,8-TCDD	5.86e+06		27:21	0.69	645					83.0	
13C-1,2,3,4-TCDD	2.58e+07	0.78 y	26:44	-	55.7						
13C-1,2,3,4-TCDF	4.18e+07	0.88 y	25:28	-	56.2						
13C-1,2,3,7,8,9-HxCDD	1.50e+07	1.22 y	39:09	-	52.8						
Total Tetra-Dioxins	*		NotFnd	1.11	*		2.50	668	942	1.57	0
Total Penta-Dioxins	*		NotFnd	1.10	*		2.50	1010	944	2.54	0
Total Hexa-Dioxins	*		NotFnd	1.37	*		2.50	868	900	3.17	0
Total Hepta-Dioxins	*		NotFnd	1.45	*		2.50	784	768	3.05	0
Total Tetra-Furans	*		NotFnd	1.50	*		2.50	1090	1220	1.06	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.94	*		2.50	796	852	1.62	PeCDF 0
Total Penta-Furans	*		NotFnd	0.94	*		2.50	796	852	1.62	* 0
Total Hexa-Furans	4.31e+04		38:02	0.91	3.70	J	2.50	-	-	*	1
Total Hepta-Furans	*		NotFnd	1.38	*		2.50	712	688	3.49	0

Analyst: 

Date: 2/2/11

Totals class: Total Hexa-Furans

Entry #: 45

Run: 13

File: 01FEB11M

S: 6 I: 1 F: 3

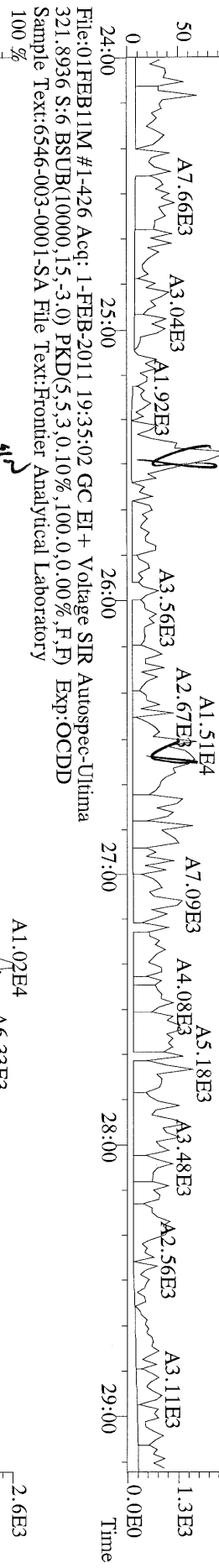
Acquired: 1-FEB-11 19:35:02

Total Concentration: 3.70

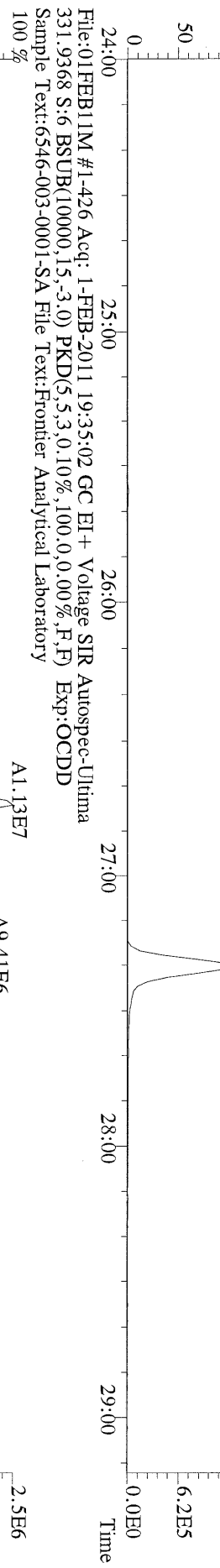
Unnamed Concentration: 3.703

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
38:02	2.27e+04	2.04e+04	1.11 y	4.31e+04	3.70	

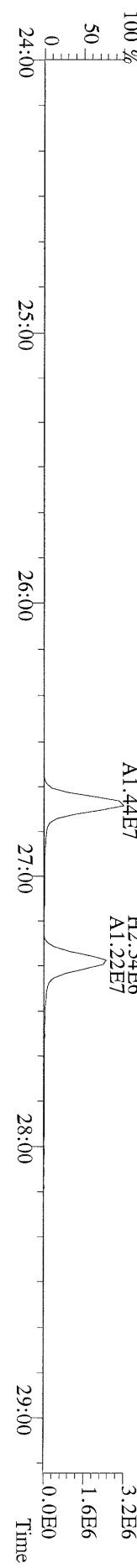
File:01FEB11M #1-426 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Ultima
 319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory



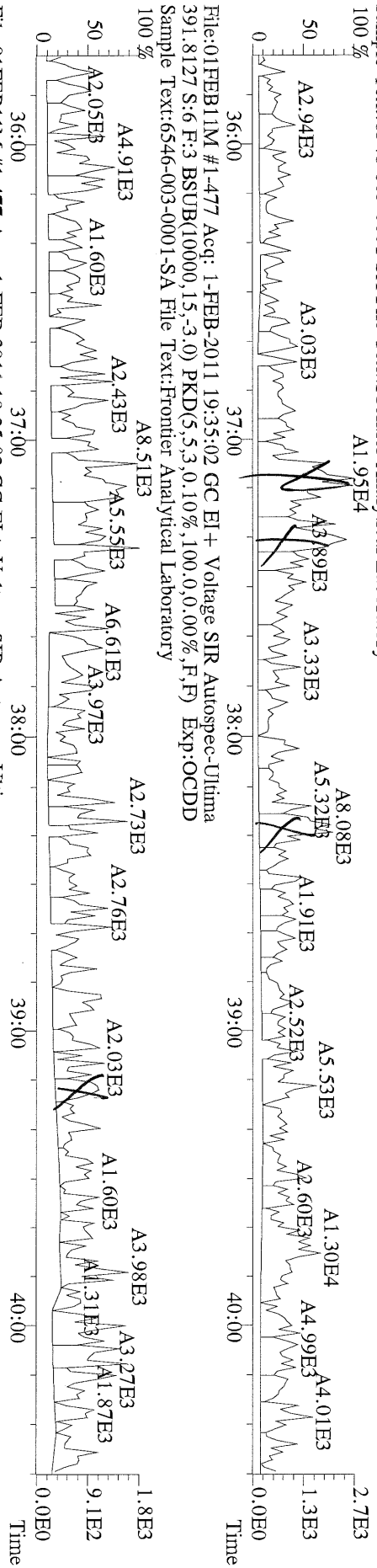
File:01FEB11M #1-426 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Ultima
 327.8847 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory



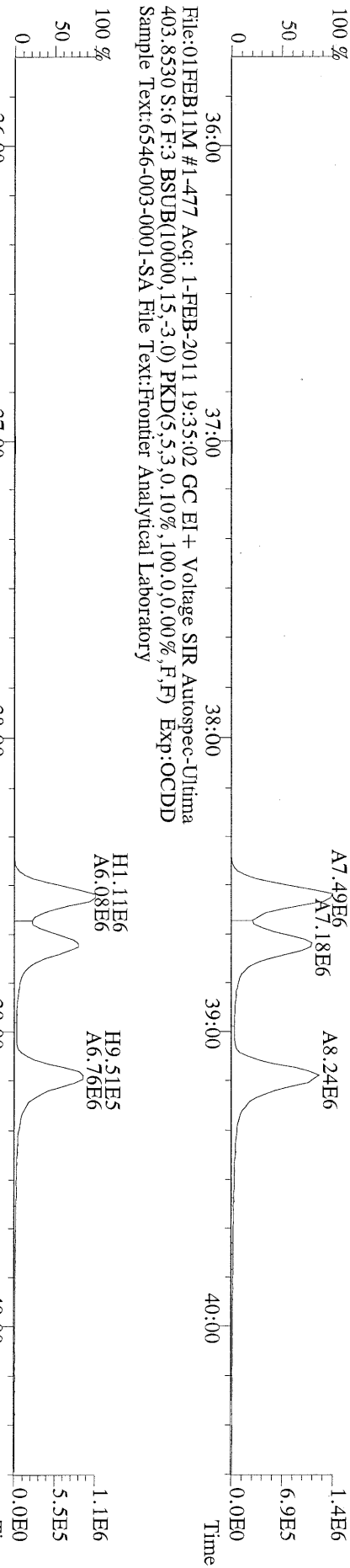
File:01FEB11M #1-426 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Ultima
 333.9339 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory



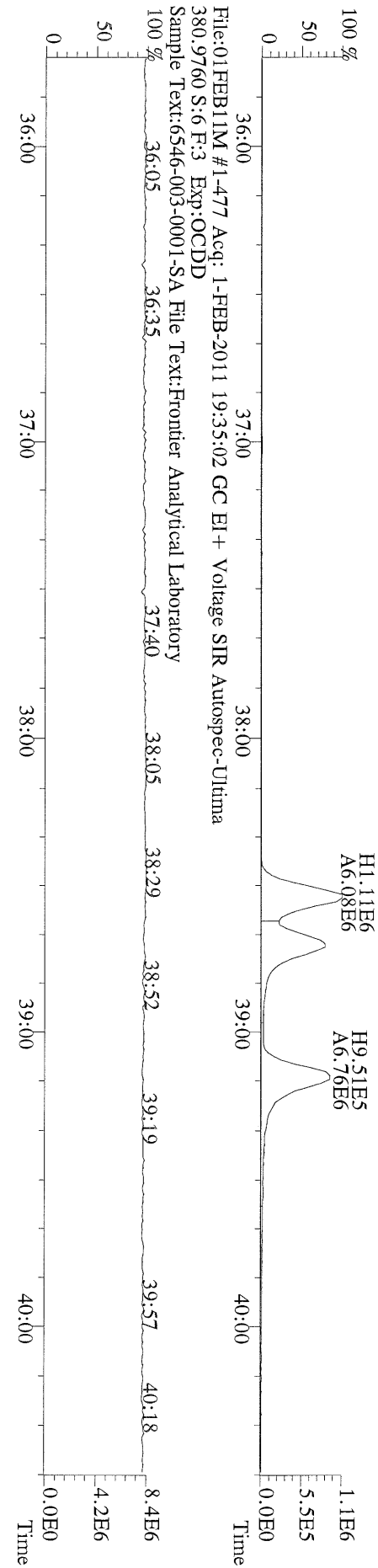
File:01FEB11M #1-477 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Utima
389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory



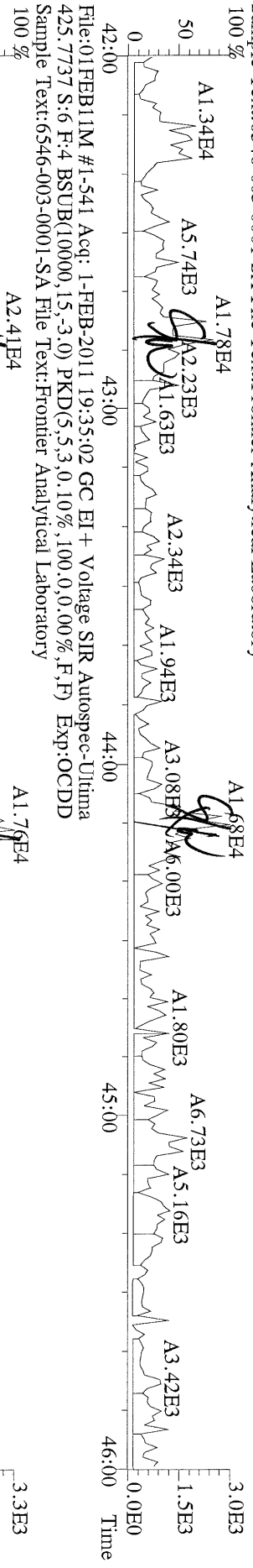
File:01FEB11M #1-477 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Utima
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory



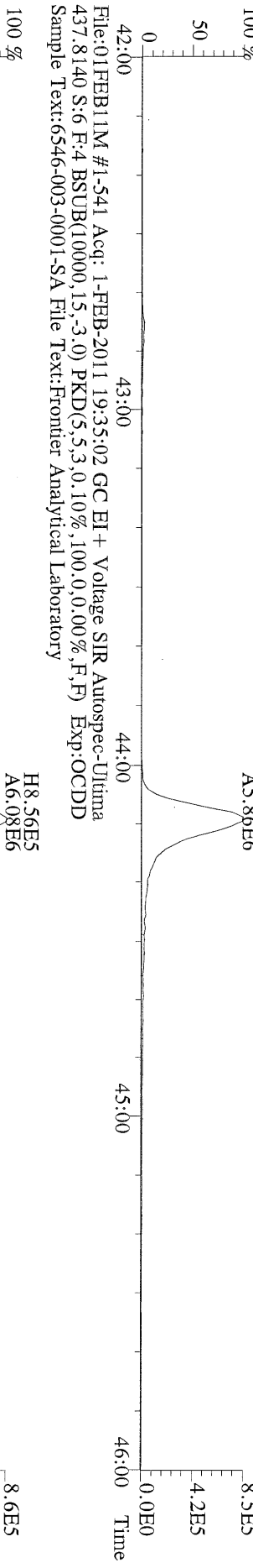
File:01FEB11M #1-477 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Utima
403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory



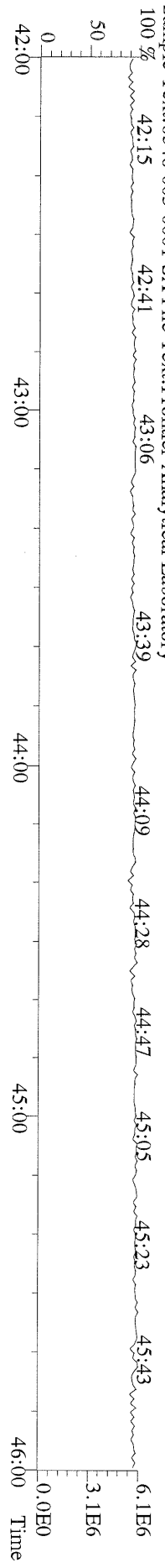
File:01FEB11M #1-541 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Utima
423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory



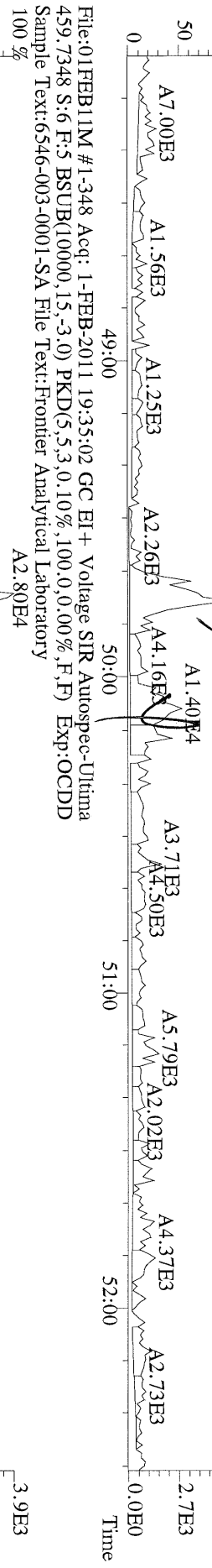
File:01FEB11M #1-541 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Utima
435.8169 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory



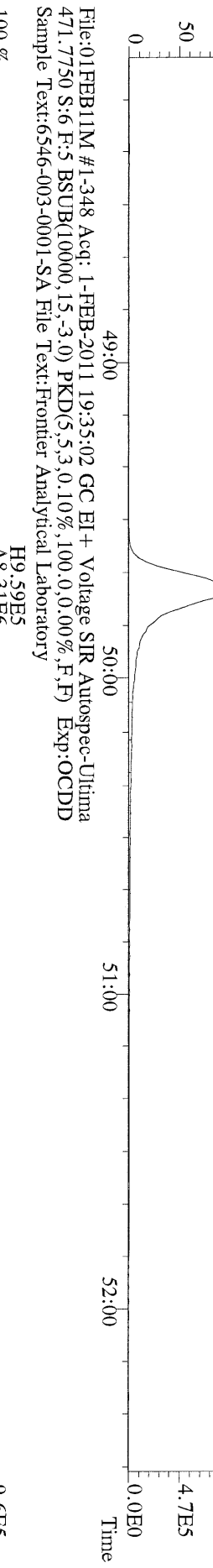
File:01FEB11M #1-541 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Utima
430.9728 S:6 F:4 Exp:OCDD
Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory



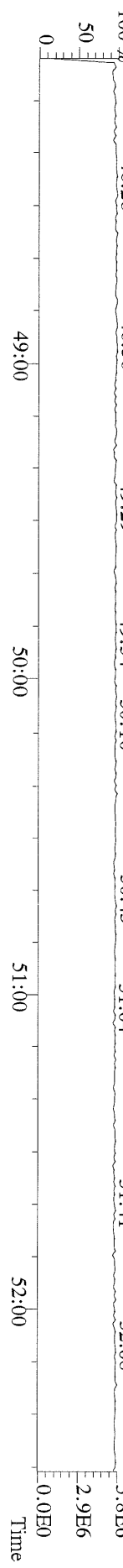
File:01FEB11M #1-348 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Utima
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory



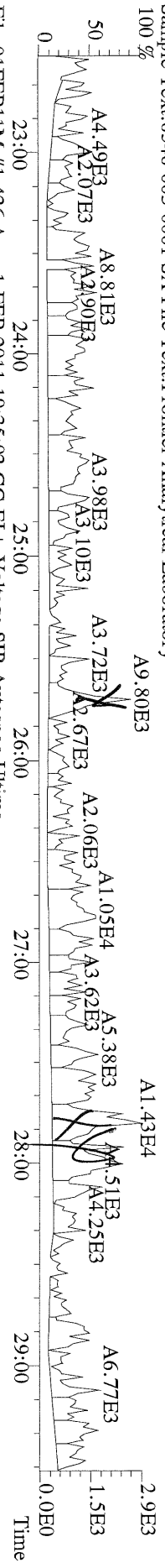
File:01FEB11M #1-348 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Utima
469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory



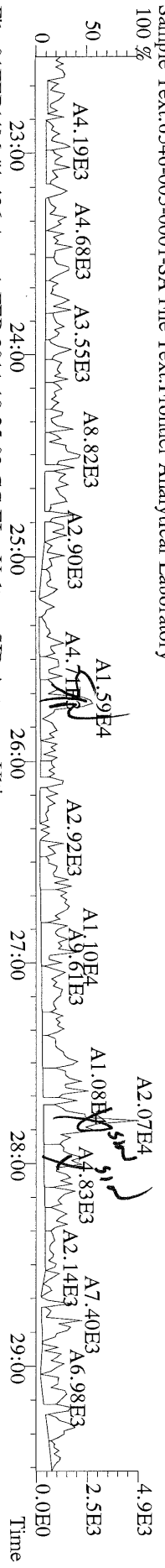
File:01FEB11M #1-348 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Utima
471.7750 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory



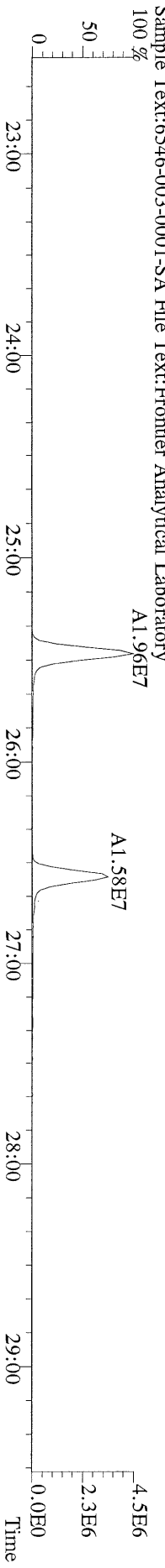
File:01FEB11M #1-426 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Utima
 303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory



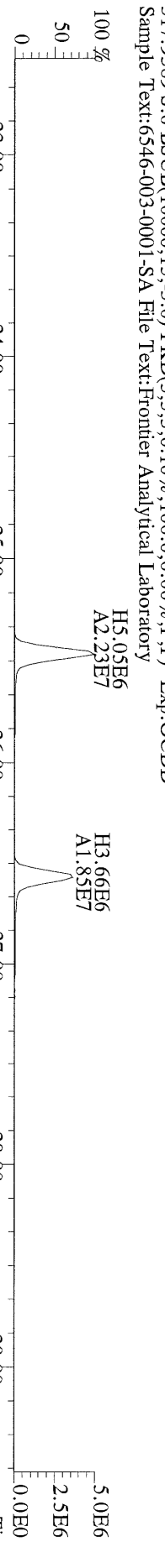
File:01FEB11M #1-426 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Utima
 305.8987 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory



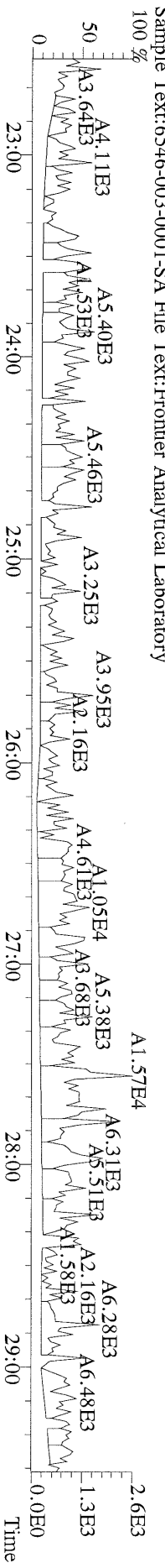
File:01FEB11M #1-426 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Utima
 315.9419 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory



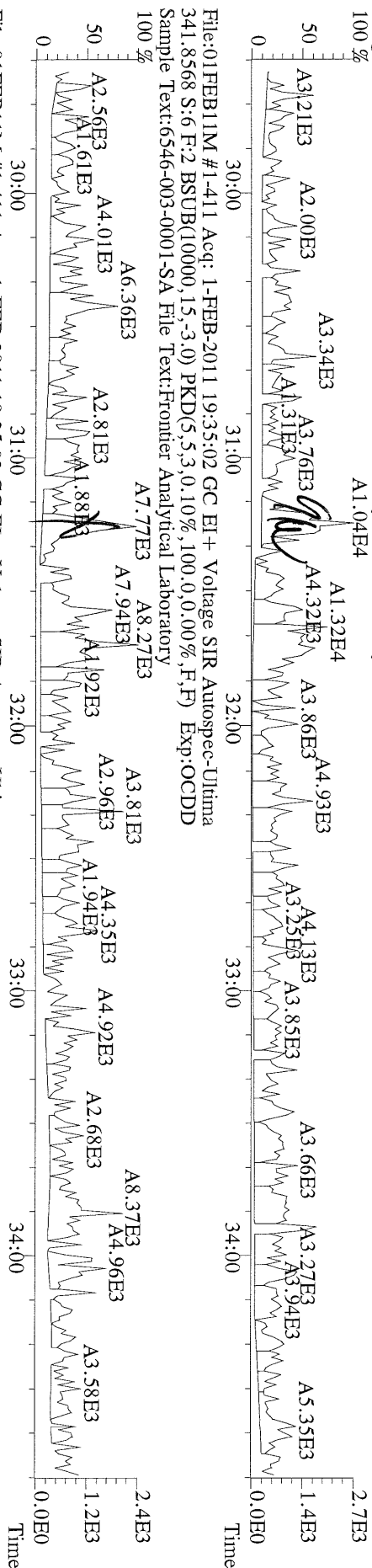
File:01FEB11M #1-426 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Utima
 317.9389 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory



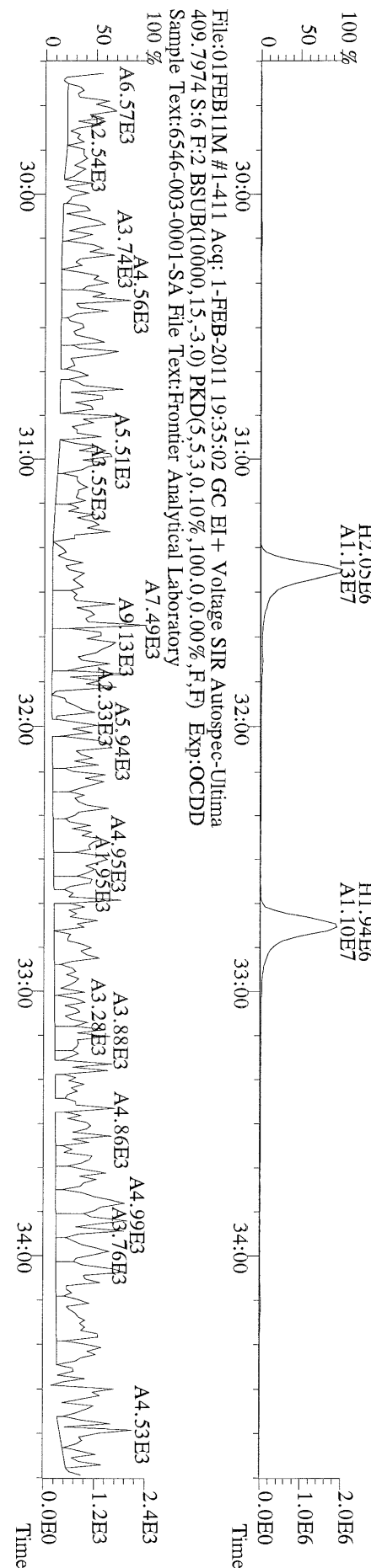
File:01FEB11M #1-426 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Utima
 375.8364 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory



File:01FEB11M #1-411 Acq: 1-FEB-2011 19:35:02 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:6546-003-0001-SA File Text:Frontier Analytical Laboratory



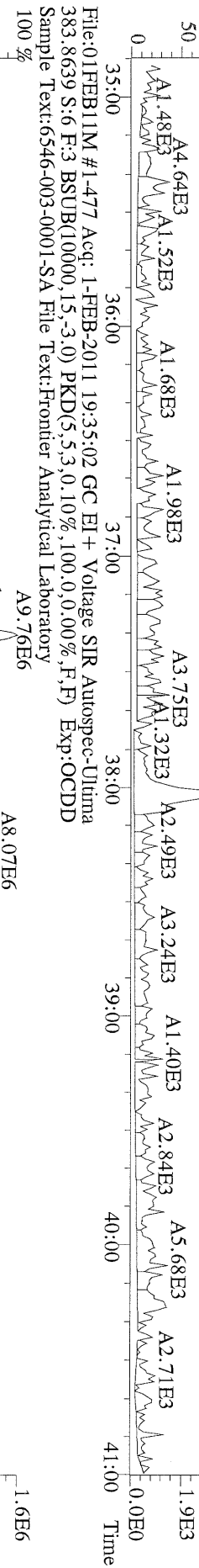
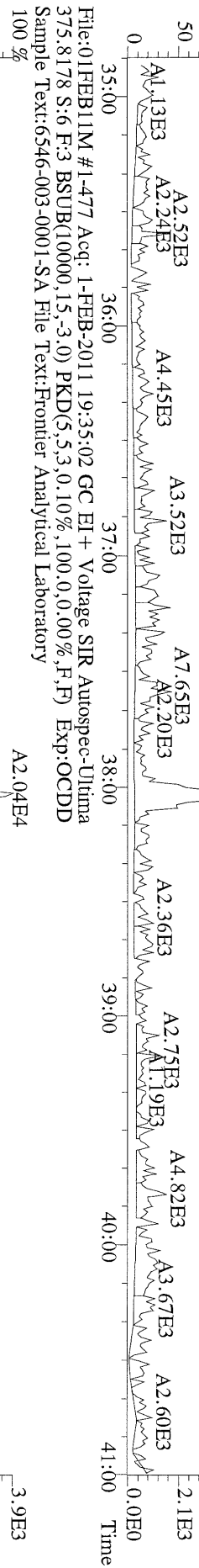
File:01FEB11M #1-411 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Ultima
 351.9000 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory



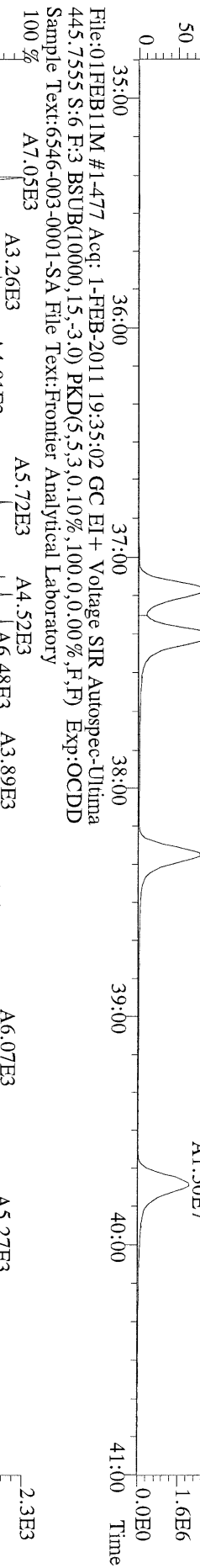
File:01FEB11M #1-411 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory



File:01FEB11M #1-477 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Utima
 373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory



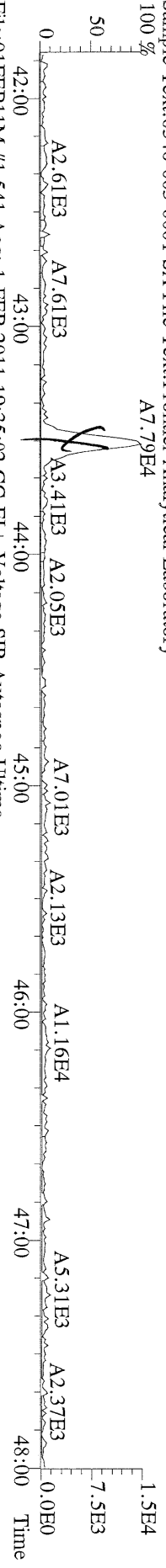
File:01FEB11M #1-477 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Utima
 385.8610 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory



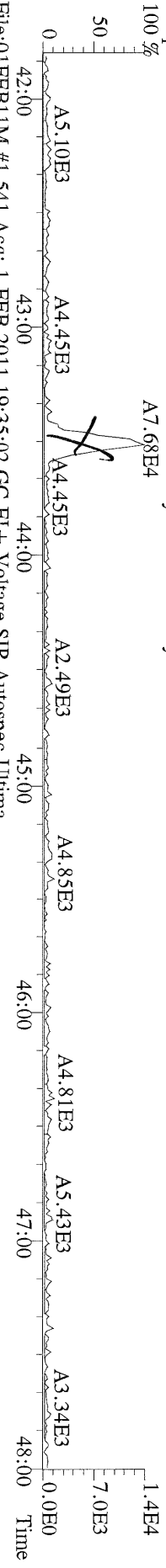
File:01FEB11M #1-477 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Utima
 445.7555 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory



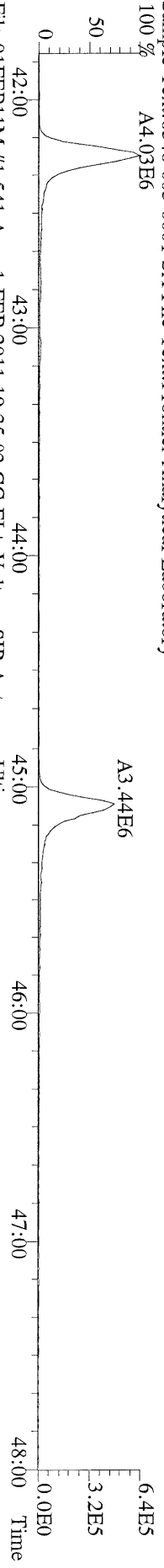
File:01FEB11M #1-541 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Utima
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory
100%



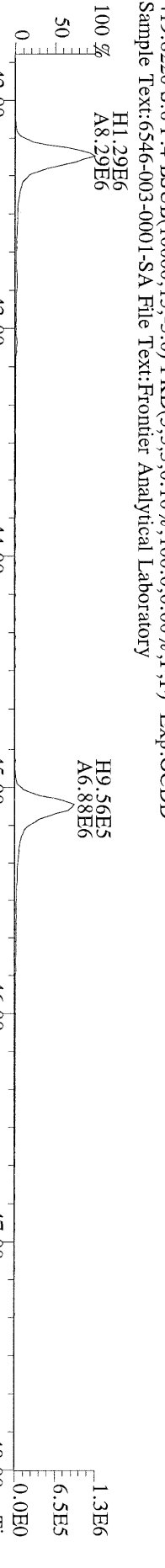
File:01FEB11M #1-541 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Utima
409.7788 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory
100%



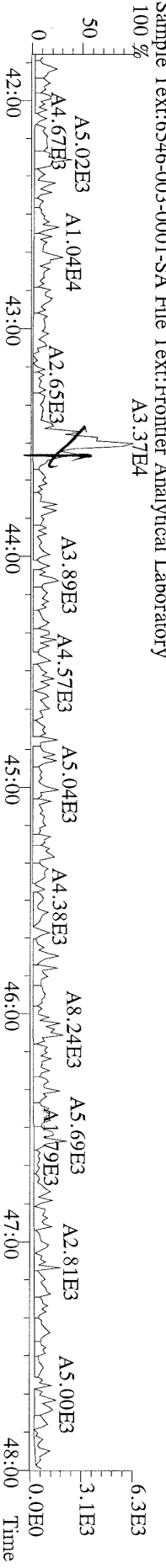
File:01FEB11M #1-541 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Utima
417.8253 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory
100%



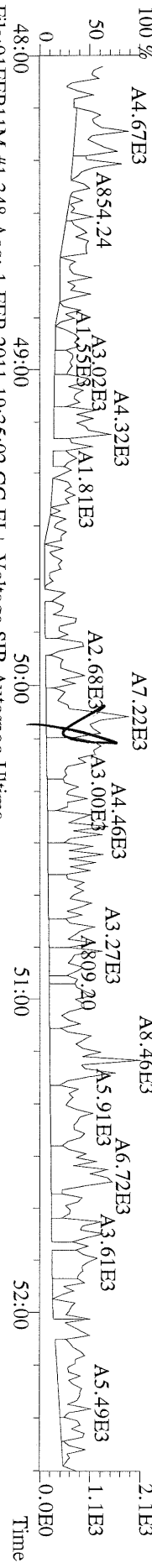
File:01FEB11M #1-541 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Utima
419.8220 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory



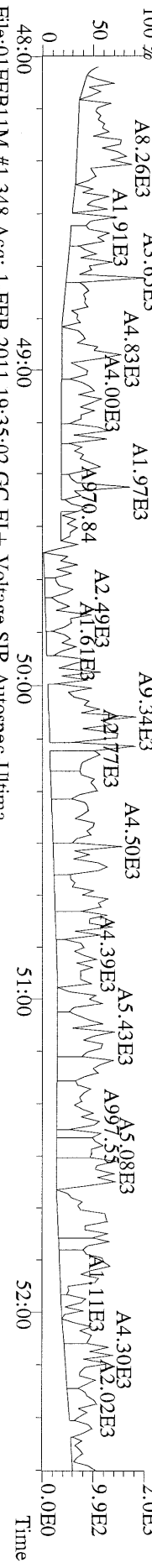
File:01FEB11M #1-541 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Utima
479.7165 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory
100%



File:01FEB11M #1-348 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Ultima
441.7428 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:6546-003-0001-SA File Text:Frontier Analytical Laboratory



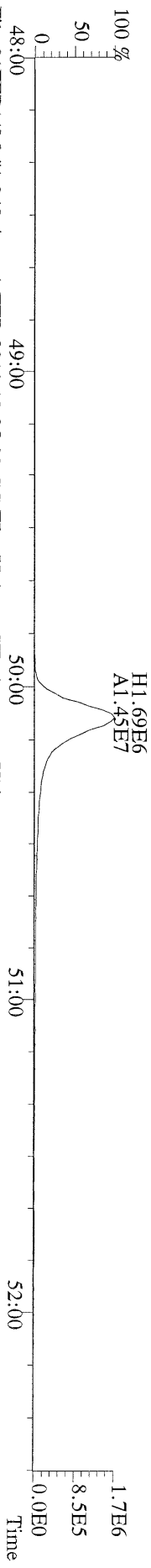
File:01FEB11M #1-348 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory



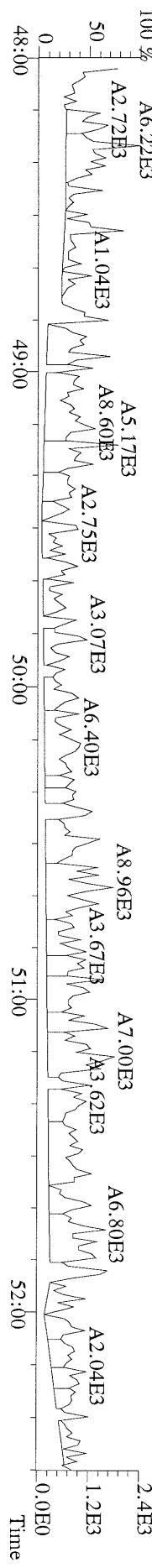
File:01FEB11M #1-348 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-003-0001-SA File Text:Frontier Analytical Laboratory



File:01FEB11M #1-348 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Ultima
455.7801 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:6546-003-0001-SA File Text:Frontier Analytical Laboratory



File:01FEB11M #1-348 Acq: 1-FEB-2011 19:35:02 GC EI+ Voltage SIR Autospec-Ultima
513.6775 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:6546-003-0001-SA File Text:Frontier Analytical Laboratory



Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.11	*		2.50	816	820	1.20	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.10	*		2.50	1020	924	1.75	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	1020	1050	1.84	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	1020	1050	2.30	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.36	*		2.50	1020	1050	2.08	
1,2,3,4,6,7,8-HpCDD	3.37e+04	0.89 y	44:10	1.45	2.62	J	2.50	-	-	*	
OCDD	2.39e+05	0.88 y	49:43	1.43	26.1		2.50	-	-	*	
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	952	1250	0.718	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	856	1080	1.31	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	856	1080	1.31	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	1030	944	1.64	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.82	*		2.50	1030	944	1.60	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.92	*		2.50	1030	944	1.77	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	1030	944	1.80	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.39	*		2.50	904	964	2.18	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.36	*		2.50	904	964	3.19	
OCDF	*	* n	NotFnd	0.79	*		2.50	804	908	4.47	
13C-2,3,7,8-TCDD	2.79e+07	0.79 y	27:18	1.02	1800					92.9	
13C-1,2,3,7,8-PeCDD	2.69e+07	1.76 y	33:08	0.84	2120					109	
13C-1,2,3,4,7,8-HxCDD	2.11e+07	1.25 y	38:31	1.07	1950					100	
13C-1,2,3,6,7,8-HxCDD	1.93e+07	1.25 y	38:41	1.01	1890					97.1	
13C-1,2,3,4,6,7,8-HpCDD	1.72e+07	1.01 y	44:09	0.86	1990					103	
13C-OCDD	2.48e+07	0.99 y	49:42	0.55	4510					116	
13C-2,3,7,8-TCDF	4.48e+07	0.88 y	26:33	0.99	1810					93.3	
13C-1,2,3,7,8-PeCDF	4.17e+07	1.72 y	31:24	0.84	2000					103	
13C-2,3,4,7,8-PeCDF	4.12e+07	1.68 y	32:44	0.81	2040					105	
13C-1,2,3,4,7,8-HxCDF	3.34e+07	0.49 y	37:07	1.85	1790					92.3	
13C-1,2,3,6,7,8-HxCDF	4.43e+07	0.50 y	37:19	2.54	1730					89.2	
13C-2,3,4,6,7,8-HxCDF	3.51e+07	0.49 y	38:16	2.01	1730					89.1	
13C-1,2,3,7,8,9-HxCDF	3.49e+07	0.49 y	39:43	2.03	1710					87.8	
13C-1,2,3,4,6,7,8-HpCDF	1.83e+07	0.46 y	42:13	1.11	1640					84.2	
13C-1,2,3,4,7,8,9-HpCDF	1.45e+07	0.48 y	45:03	0.80	1780					91.9	
13C-OCDF	4.18e+07	0.92 y	50:05	1.08	3830					98.5	
37Cl-2,3,7,8-TCDD	7.83e+06		27:19	0.69	757					97.4	
13C-1,2,3,4-TCDD	2.93e+07	0.78 y	26:43	-	63.3						
13C-1,2,3,4-TCDF	4.83e+07	0.88 y	25:28	-	64.9						
13C-1,2,3,7,8,9-HxCDD	1.96e+07	1.19 y	39:08	-	68.9						
Total Tetra-Dioxins	*		NotFnd	1.11	*		2.50	816	820	1.20	0
Total Penta-Dioxins	*		NotFnd	1.10	*		2.50	1020	924	1.75	0
Total Hexa-Dioxins	*		NotFnd	1.37	*		2.50	1020	1050	2.30	0
Total Hepta-Dioxins	9.29e+04		42:46	1.45	7.21	J	2.50	-	-	*	2
Total Tetra-Furans	4.07e+04		27:46	1.50	1.17	J	2.50	-	-	*	1
1st Fn. Tot Penta-Furans	*		NotFnd	0.94	*		2.50	858	1080	1.31	0
Total Penta-Furans	*		NotFnd	0.94	*		2.50	856	1080	1.31	0
Total Hexa-Furans	*		NotFnd	0.91	*		2.50	1030	944	1.80	0
Total Hepta-Furans	*		NotFnd	1.38	*		2.50	904	964	3.19	0

Analyst: 

Date: 2/2/11

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 14

File: 01FEB11M

S: 7 I: 1 F: 4

Acquired: 1-FEB-11 20:30:17

Total Concentration: 7.21

Unnamed Concentration: 4.600

RT	mL Resp	m2 Resp	RA	Resp	Concentration	Name
42:46	2.85e+04	3.07e+04	0.93 y	5.92e+04	4.60	
44:10	1.59e+04	1.78e+04	0.89 y	3.37e+04	2.62	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 14

File: 01FEB11M

S: 7 I: 1 F: 1

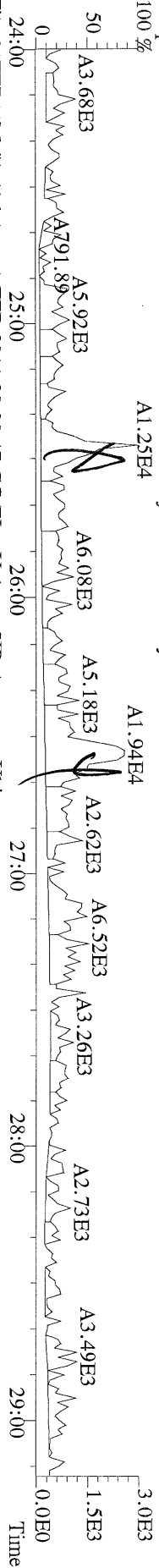
Acquired: 1-FEB-11 20:30:17

Total Concentration: 1.17

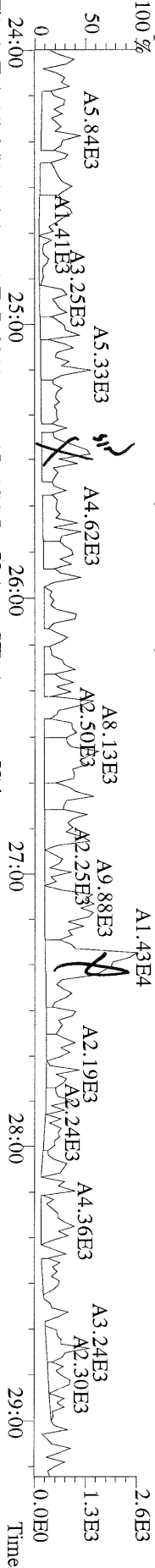
Unnamed Concentration: 1.175

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
27:46	1.73e+04	2.34e+04 0.74 y	4.07e+04	1.17	

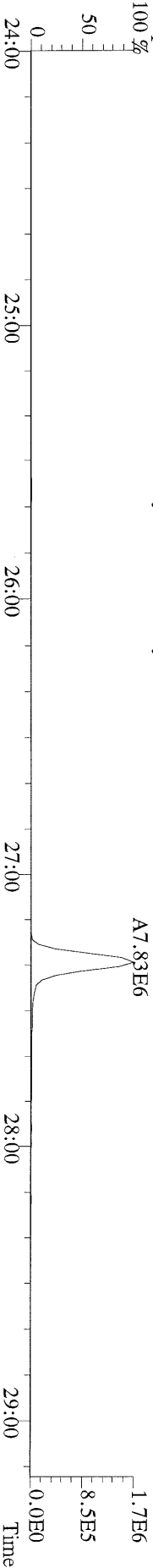
File:01FEB11M #1-426 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Utima
319.8965 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



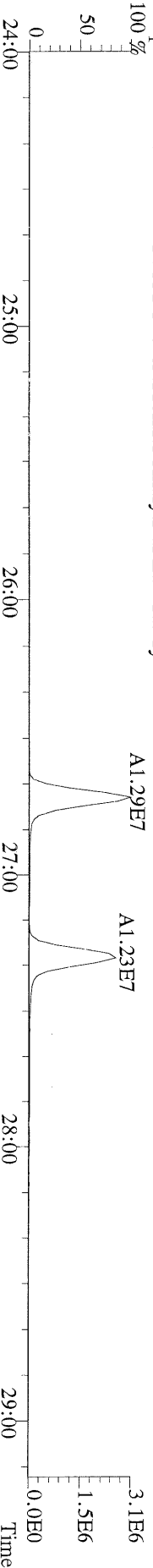
File:01FEB11M #1-426 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Utima
321.8936 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



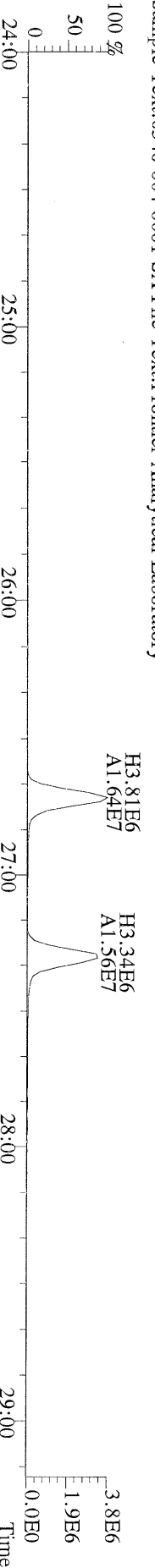
File:01FEB11M #1-426 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Utima
327.8847 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



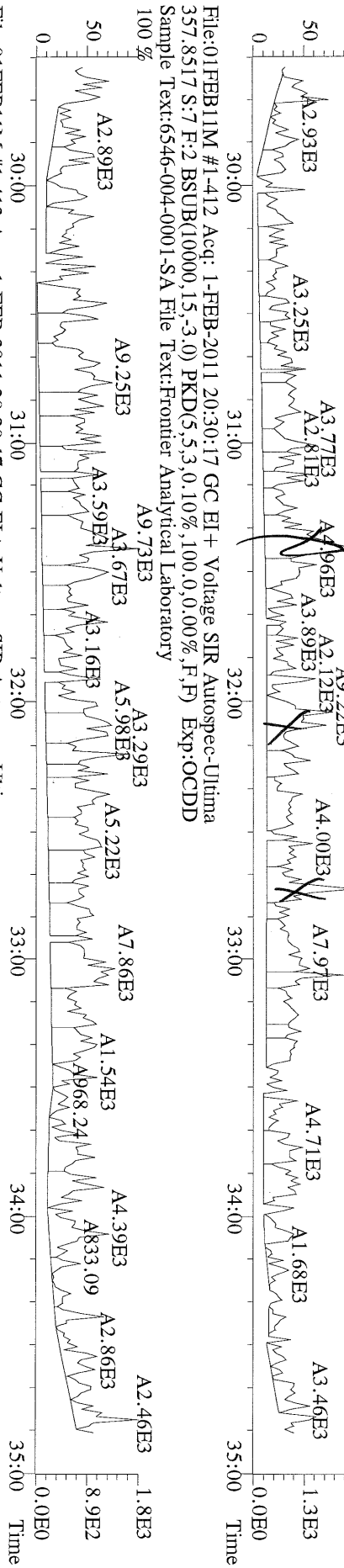
File:01FEB11M #1-426 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Utima
331.9368 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



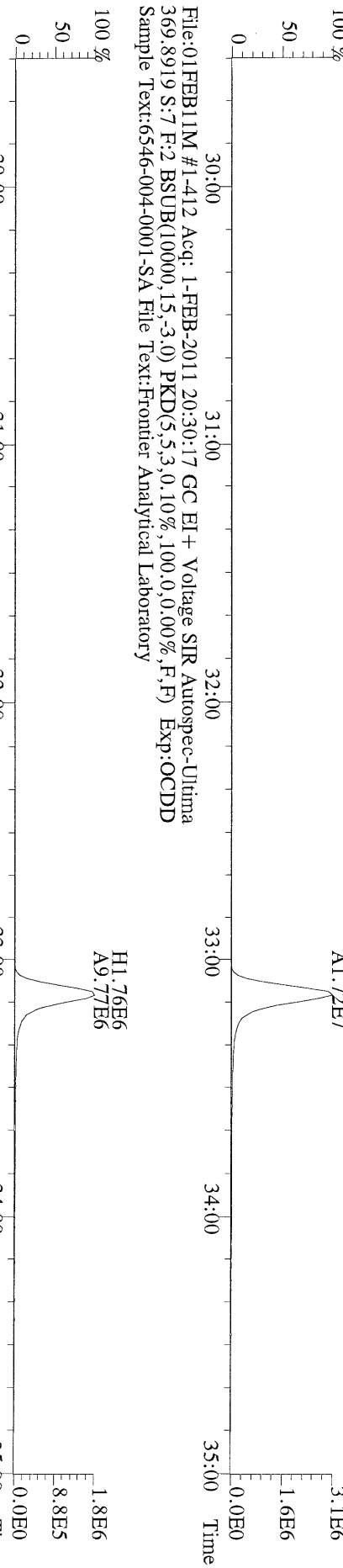
File:01FEB11M #1-426 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Utima
333.9339 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



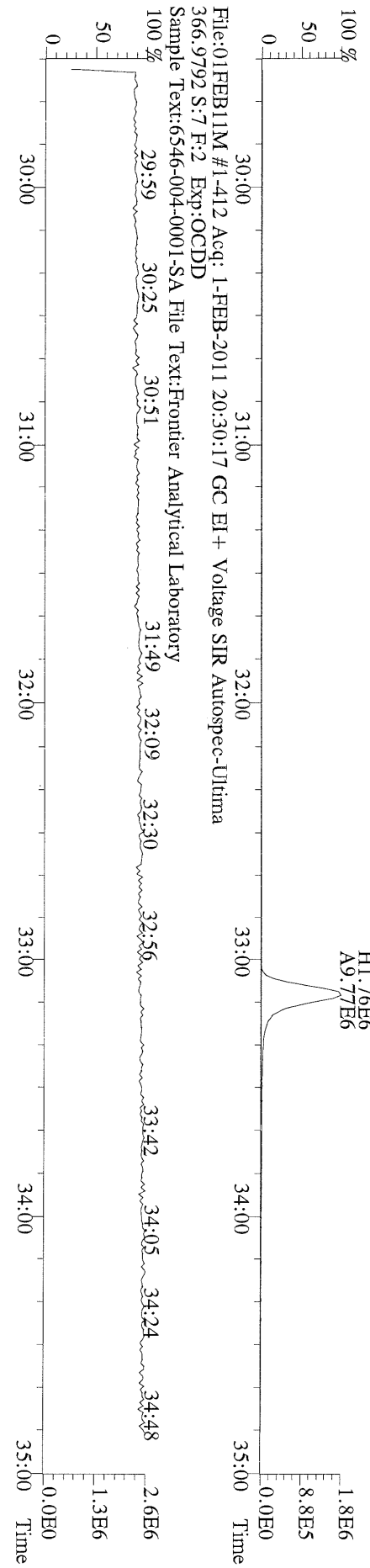
File:01FEB11M #1-412 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Ultima
 355.8546 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



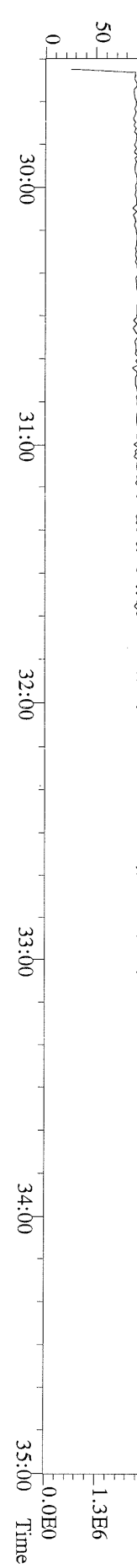
File:01FEB11M #1-412 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Ultima
 367.8949 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



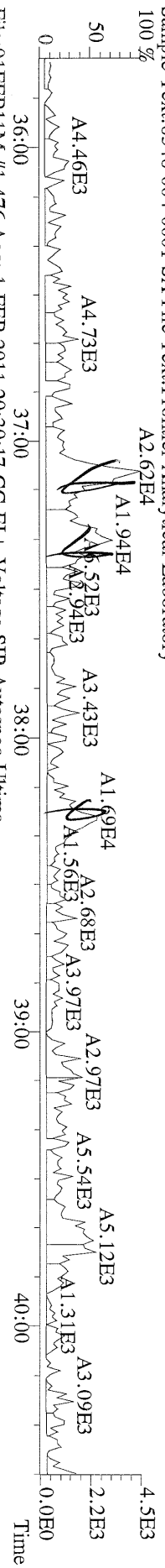
File:01FEB11M #1-412 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Ultima
 369.8919 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



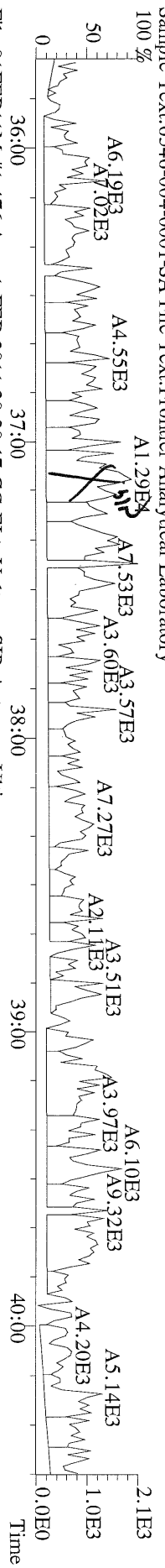
File:01FEB11M #1-412 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Ultima
 366.9792 S:7 F:2 Exp:OCDD
 Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



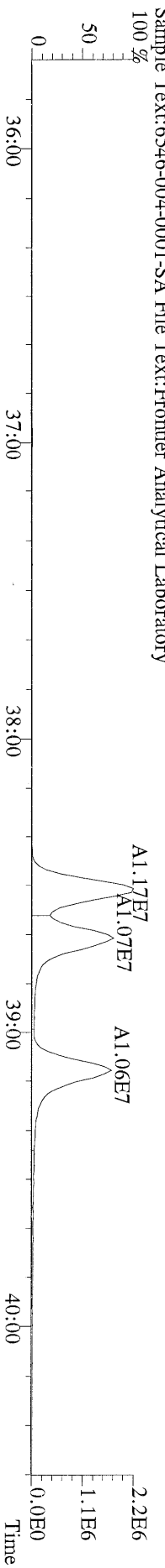
File:01FEB11M #1-476 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Ultima
 389.8156 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



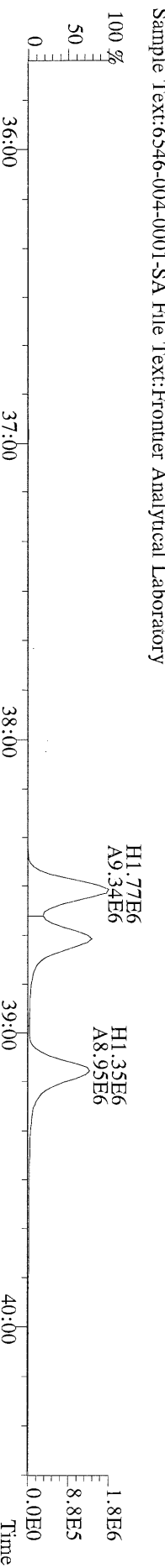
File:01FEB11M #1-476 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Ultima
 391.8127 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



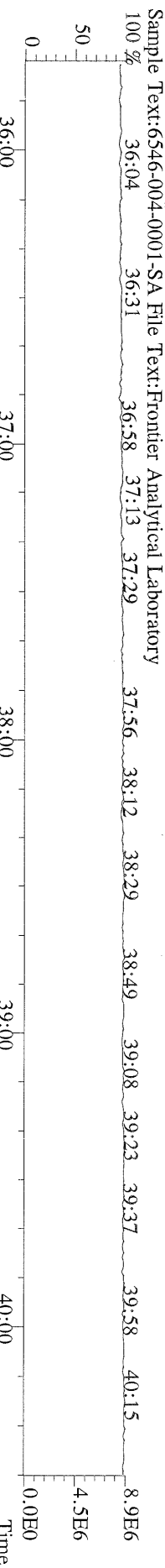
File:01FEB11M #1-476 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Ultima
 401.8559 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



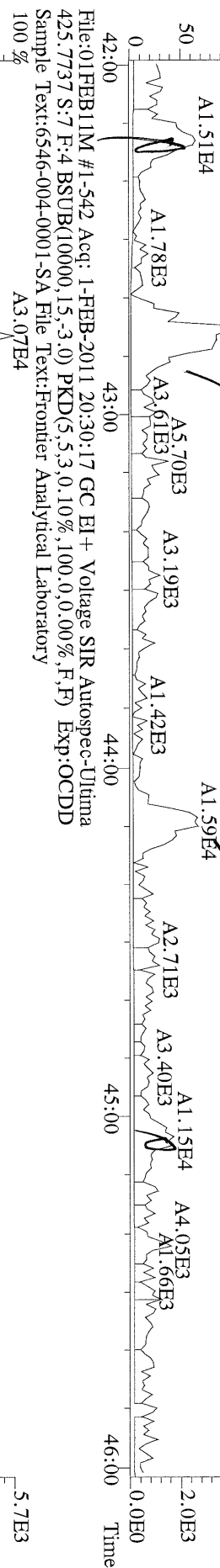
File:01FEB11M #1-476 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Ultima
 403.8530 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



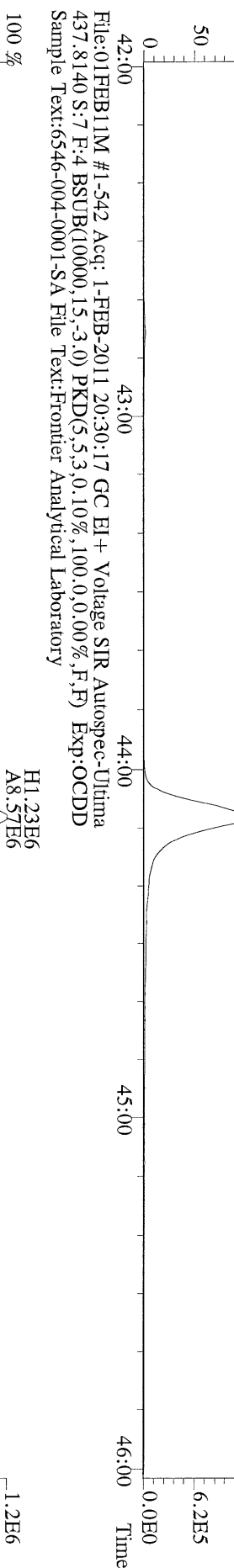
File:01FEB11M #1-476 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Ultima
 380.9760 S:7 F:3 Exp:OCDD
 Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



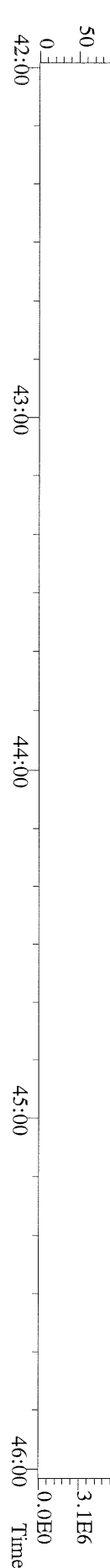
File:01FEB11M #1-542 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Utima
423.7767 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



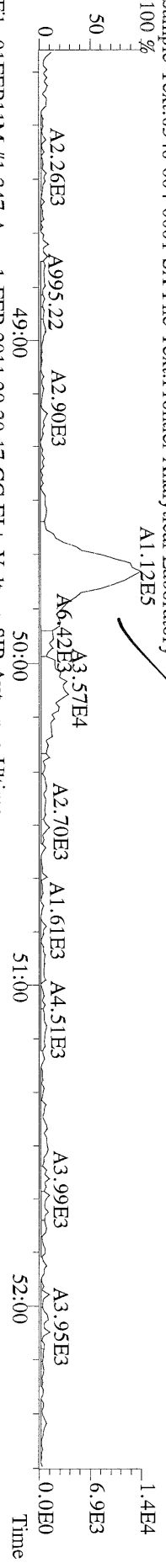
File:01FEB11M #1-542 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Utima
435.8169 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



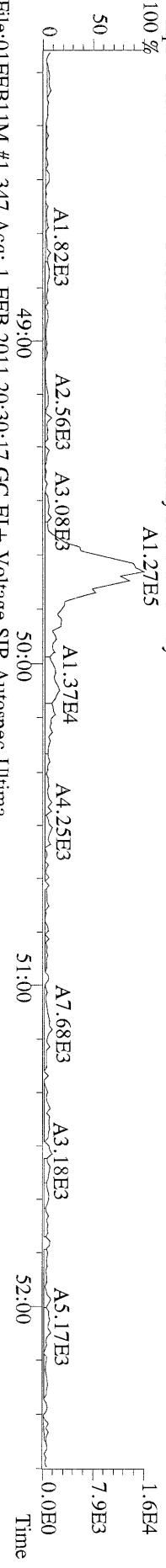
File:01FEB11M #1-542 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Utima
430.9728 S:7 F:4 Exp:OCDD
Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



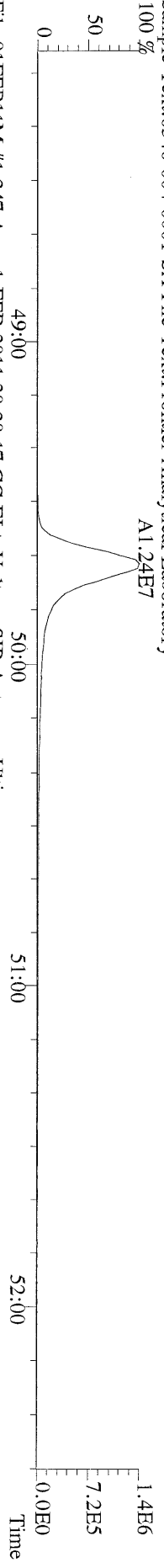
File:01FEB11M #1-347 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory
100 %



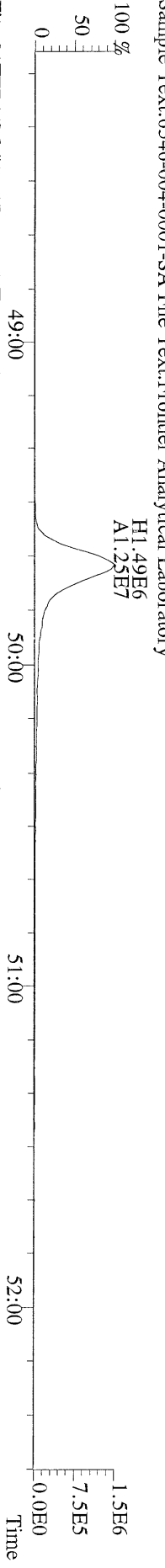
File:01FEB11M #1-347 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory
100 %



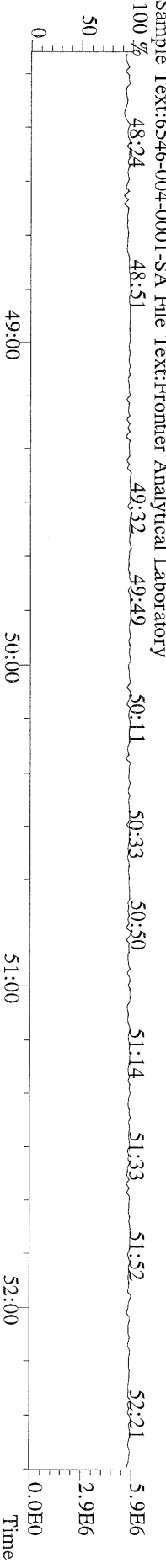
File:01FEB11M #1-347 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory
100 %



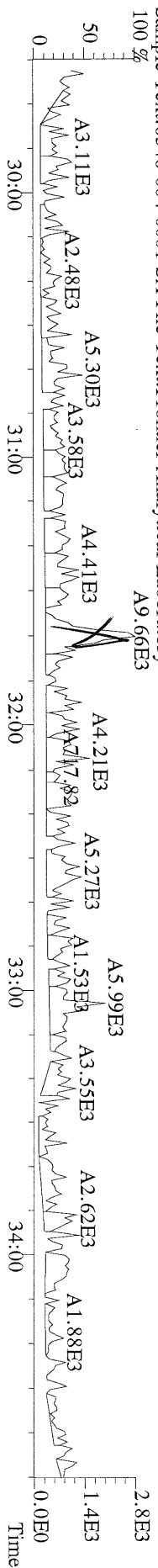
File:01FEB11M #1-347 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



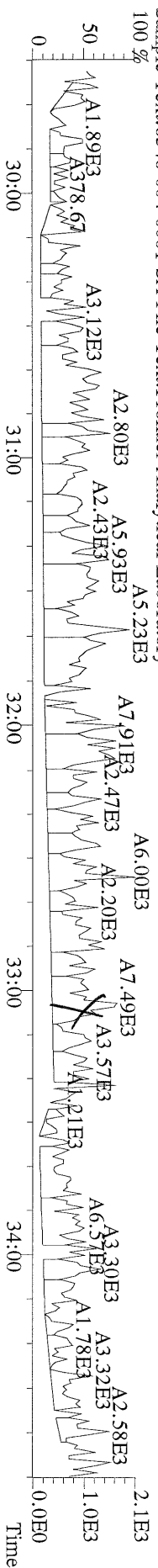
File:01FEB11M #1-347 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:7 F:5 Exp:OCDD
Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



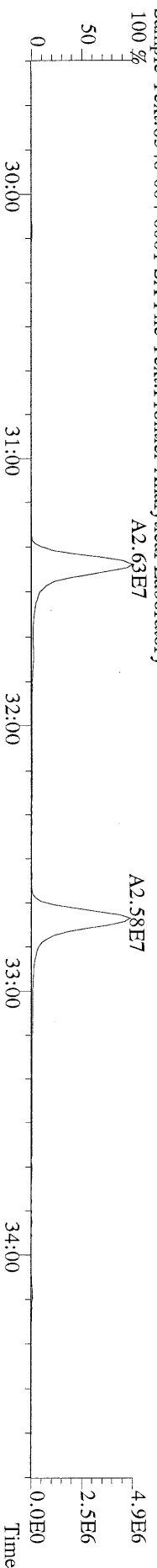
File:01FEB11M #1-412 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:7 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



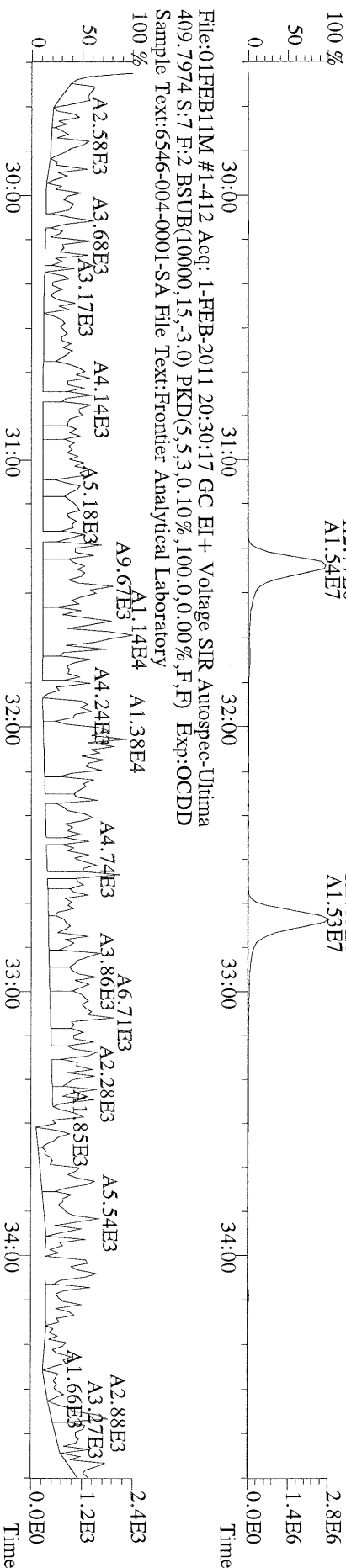
File:01FEB11M #1-412 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:7 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



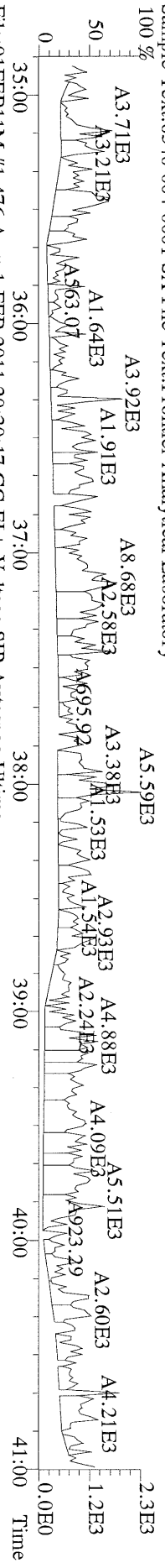
File:01FEB11M #1-412 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Ultima
 351.9000 S:7 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



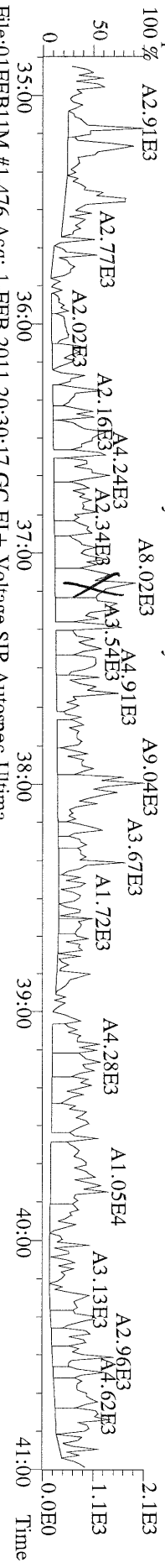
File:01FEB11M #1-412 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:7 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



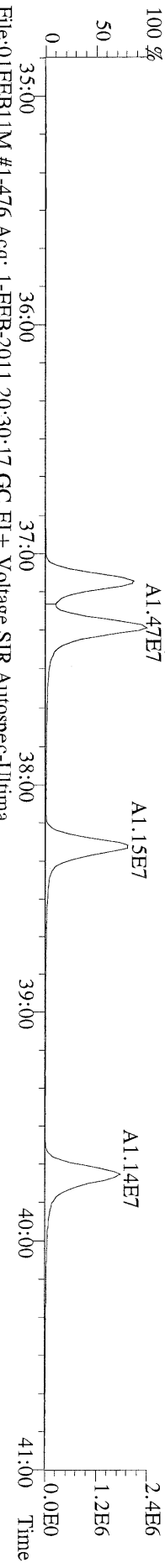
File:01FEB11M #1-476 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Utima
373.8207 S:7 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



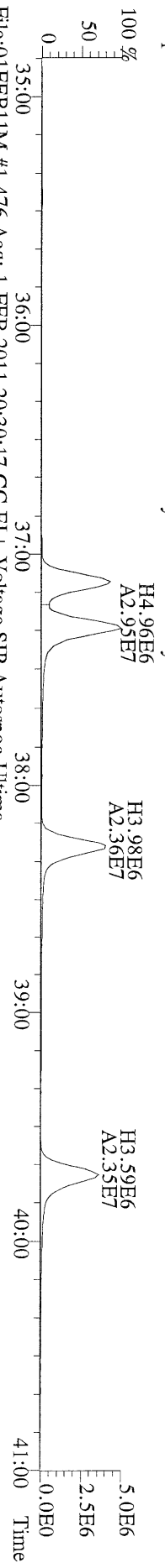
File:01FEB11M #1-476 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Utima
375.8178 S:7 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



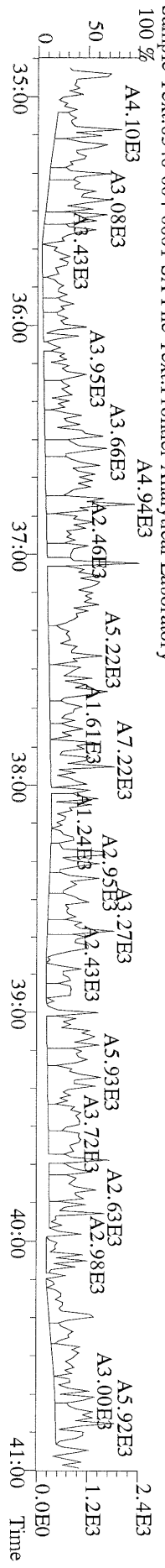
File:01FEB11M #1-476 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Utima
383.8639 S:7 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory




File:01FEB11M #1-476 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Utima
445.7555 S:7 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



File:01FEB11M #1-476 Acq: 1-FEB-2011 20:30:17 GC EI+ Voltage SIR Autospec-Utima
445.7555 S:7 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-004-0001-SA File Text:Frontier Analytical Laboratory



Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	4.57e+04	0.70 y	27:20	1.11	3.34	J	2.50	-	-	*	
1,2,3,7,8-PeCDD	1.22e+05	1.49 y	33:10	1.10	9.29	J	2.50	-	-	*	
1,2,3,4,7,8-HxCDD	6.95e+04	1.10 y	38:32	1.37	5.19	J	2.50	-	-	*	
1,2,3,6,7,8-HxCDD	4.78e+05	1.23 y	38:42	1.37	37.9		2.50	-	-	*	
1,2,3,7,8,9-HxCDD	2.66e+05	1.22 y	39:10	1.36	20.6	J	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	1.05e+07	0.90 y	44:09	1.45	843		2.50	-	-	*	
OCDD	1.44e+08	0.92 y	49:43	1.43	16200		2.50	-	-	*	
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	1680	1920	1.38	
1,2,3,7,8-PeCDF	2.08e+05	1.61 y	31:26	0.94	11.8	J	2.50	-	-	*	
2,3,4,7,8-PeCDF	7.58e+04	1.65 y	32:44	0.94	4.51	J	2.50	-	-	*	
1,2,3,4,7,8-HxCDF	7.11e+04	1.09 y	37:09	0.93	5.06	J	2.50	-	-	*	
1,2,3,6,7,8-HxCDF	1.64e+05	1.30 y	37:19	0.82	9.83	D,J,M	2.50	-	-	*	
2,3,4,6,7,8-HxCDF	2.45e+05	1.24 y	38:18	0.92	16.2	J	2.50	-	-	*	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	1110	664	1.85	
1,2,3,4,6,7,8-HpCDF	1.61e+06	1.06 y	42:14	1.39	126		2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	1.15e+05	1.16 y	45:05	1.36	11.7	J	2.50	-	-	*	
OCDF	2.93e+06	0.91 y	50:06	0.79	384		2.50	-	-	*	
13C-2,3,7,8-TCDD	2.48e+07	0.80 y	27:19	1.02	1510					75.0	
13C-1,2,3,7,8-PeCDD	2.39e+07	1.70 y	33:09	0.84	1770					87.9	
13C-1,2,3,4,7,8-HxCDD	1.96e+07	1.25 y	38:32	1.07	1570					78.0	
13C-1,2,3,6,7,8-HxCDD	1.85e+07	1.25 y	38:41	1.01	1570					77.9	
13C-1,2,3,4,6,7,8-HpCDD	1.72e+07	1.02 y	44:09	0.86	1720					85.7	
13C-OCDD	2.49e+07	1.00 y	49:43	0.55	3910					97.2	
13C-2,3,7,8-TCDF	3.89e+07	0.88 y	26:33	0.99	1470					73.3	
13C-1,2,3,7,8-PeCDF	3.74e+07	1.71 y	31:24	0.84	1680					83.8	
13C-2,3,4,7,8-PeCDF	3.60e+07	1.74 y	32:44	0.81	1670					83.2	
13C-1,2,3,4,7,8-HxCDF	3.04e+07	0.48 y	37:07	1.85	1410					70.2	
13C-1,2,3,6,7,8-HxCDF	4.10e+07	0.49 y	37:20	2.54	1390					69.0	
13C-2,3,4,6,7,8-HxCDF	3.33e+07	0.49 y	38:16	2.01	1420					70.5	
13C-1,2,3,7,8,9-HxCDF	3.32e+07	0.50 y	39:43	2.03	1400					69.9	
13C-1,2,3,4,6,7,8-HpCDF	1.84e+07	0.48 y	42:13	1.11	1430					71.0	
13C-1,2,3,4,7,8,9-HpCDF	1.46e+07	0.48 y	45:04	0.80	1550					77.3	
13C-OCDF	3.91e+07	0.93 y	50:04	1.08	3100					77.1	
37Cl-2,3,7,8-TCDD	6.68e+06		27:20	0.69	607					75.4	
13C-1,2,3,4-TCDD	3.23e+07	0.78 y	26:43	-	72.2						
13C-1,2,3,4-TCDF	5.33e+07	0.87 y	25:27	-	74.1						
13C-1,2,3,7,8,9-HxCDD	2.34e+07	1.23 y	39:09	-	85.4						
Total Tetra-Dioxins	1.37e+05		24:19	1.11	10.0		2.50	-	-	*	3
Total Penta-Dioxins	1.47e+06		30:07	1.10	112	M	2.50	-	-	*	8
Total Hexa-Dioxins	5.14e+06		36:05	1.37	398		2.50	-	-	*	6
Total Hepta-Dioxins	2.40e+07		42:47	1.45	1930		2.50	-	-	*	2
Total Tetra-Furans	4.19e+07		23:34	1.50	1440	D,M	2.50	-	-	*	15
1st Fn. Tot Penta-Furans	5.28e+05		28:22	0.94	30.8	D,M	2.50	-	-	*	PeCDF 3
Total Penta-Furans	5.25e+07		30:10	0.94	3060	D,M	2.50	-	-	*	3090 12
Total Hexa-Furans	6.39e+06		35:10	0.91	410	D,M	2.50	-	-	*	15
Total Hepta-Furans	4.45e+06		42:14	1.38	379		2.50	-	-	*	4

Analyst: 

Date: 2/2/11

Totals class: Total Tetra-Dioxins

Entry #: 38

Run: 15

File: 01FEB11M

S: 8 I: 1 F: 1

Acquired: 1-FEB-11 21:25:37

Total Concentration: 10.0

Unnamed Concentration: 6.678

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
24:19	1.56e+04	1.93e+04	0.81 y	3.49e+04	2.55	
25:52	2.57e+04	3.08e+04	0.83 y	5.66e+04	4.13	
27:20	1.89e+04	2.69e+04	0.70 y	4.57e+04	3.34	2,3,7,8-TCDD

Totals class: Total Penta-Dioxins

Entry #: 39

Run: 15

File: 01FEB11M

S: 8 I: 1 F: 2

Acquired: 1-FEB-11 21:25:37

Total Concentration: 112

Unnamed Concentration: 102.917

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:07	3.99e+05	2.70e+05	1.48 y	6.68e+05	51.0	
30:27	3.40e+04	8.74e+04	0.39 n	5.60e+04	4.27	
30:48	2.88e+04	4.49e+04	0.64 n	4.73e+04	3.61	
31:24	8.34e+04	5.64e+04	1.48 y	1.40e+05	10.7	
31:38	8.57e+04	5.75e+04	1.49 y	1.43e+05	10.9	
31:46	6.02e+04	3.74e+04	1.61 y	9.76e+04	7.45	
32:02	1.13e+05	8.29e+04	1.36 y	1.96e+05	15.0	
33:10	7.29e+04	4.88e+04	1.49 y	1.22e+05	9.29	1,2,3,7,8-PeCDD

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 15

File: 01FEB11M

S: 8 I: 1 F: 3

Acquired: 1-FEB-11 21:25:37

Total Concentration: 398

Unnamed Concentration: 333.840

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:05	9.81e+05	7.82e+05	1.25 y	1.76e+06	136	
37:01	9.09e+04	8.06e+04	1.13 y	1.71e+05	13.2	
37:26	1.35e+06	1.05e+06	1.29 y	2.39e+06	185	
38:32	3.65e+04	3.30e+04	1.10 y	6.95e+04	5.19	1,2,3,4,7,8-HxCDD
38:42	2.64e+05	2.14e+05	1.23 y	4.78e+05	37.9	1,2,3,6,7,8-HxCDD
39:10	1.46e+05	1.20e+05	1.22 y	2.66e+05	20.6	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 15

File: 01FEB11M

S: 8 I: 1 F: 4

Acquired: 1-FEB-11 21:25:37

Total Concentration: 1930

Unnamed Concentration: 1089.244

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:47	6.50e+06	7.03e+06	0.92 y	1.35e+07	1090	
44:09	4.96e+06	5.50e+06	0.90 y	1.05e+07	843	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 15 File: 01FEB11M S: 8 I: 1 F: 1
Acquired: 1-FEB-11 21:25:37

Total Concentration: 1440

Unnamed Concentration: 1442.022

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:34	3.04e+04	4.48e+04	0.68 y	7.51e+04	2.59	
23:43	9.85e+04	1.45e+05	0.68 y	2.43e+05	8.38	
24:02	6.65e+04	8.06e+04	0.83 y	1.47e+05	5.06	
24:20	8.24e+04	1.20e+05	0.69 y	2.02e+05	6.97	
24:29	4.15e+04	6.26e+04	0.66 y	1.04e+05	3.58	
24:40	4.62e+04	6.96e+04	0.66 y	1.16e+05	3.98	
25:21	3.78e+04	4.76e+04	0.79 y	8.54e+04	2.94	
25:29	8.01e+05	1.21e+06	0.66 y	2.01e+06	69.3	
25:42	1.26e+07	1.83e+07	0.69 y	3.09e+07	1060	
26:54	2.63e+05	3.86e+05	0.68 y	6.49e+05	22.3	
27:17	2.88e+05	4.14e+05	0.70 y	7.02e+05	24.1	
27:30	1.21e+05	1.82e+05	0.66 y	3.03e+05	10.4	
27:46	1.01e+06	1.49e+06	0.68 y	2.50e+06	86.2	
27:59	1.16e+06	1.66e+06	0.70 y	2.83e+06	97.3	
28:48	4.11e+05	5.97e+05	0.69 y	1.01e+06	34.7	

Totals class: 1st Fn. Tot Penta-Furans Entry #: 43

Run: 15 File: 01FEB11M S: 8 I: 1 F: 1
Acquired: 1-FEB-11 21:25:37

Total Concentration: 30.8 Unnamed Concentration: 30.764

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:22	2.66e+05	1.73e+05	1.54 y	4.38e+05	25.5	
28:46	1.81e+04	1.21e+04	1.49 y	3.03e+04	1.76	
28:58	3.46e+04	2.48e+04	1.39 y	5.94e+04	3.46	

Totals class: Total Penta-Furans

Entry #: 44

Run: 15

File: 01FEB11M

S: 8 I: 1 F: 2

Acquired: 1-FEB-11 21:25:37

Total Concentration: 3060

Unnamed Concentration: 3044.719

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:10	1.41e+05	8.83e+04	1.59 y	2.29e+05	13.3	
30:28	2.62e+05	1.71e+05	1.53 y	4.33e+05	25.2	
30:59	5.02e+06	3.19e+06	1.57 y	8.21e+06	478	
31:15	2.13e+07	1.32e+07	1.61 y	3.45e+07	2010	
31:26	1.28e+05	7.94e+04	1.61 y	2.08e+05	11.8	1,2,3,7,8-PeCDF
31:40	2.10e+06	1.35e+06	1.55 y	3.44e+06	201	
31:59	6.21e+05	3.95e+05	1.57 y	1.02e+06	59.2	
32:36	2.29e+06	1.49e+06	1.54 y	3.78e+06	220	
32:44	4.72e+04	2.86e+04	1.65 y	7.58e+04	4.51	2,3,4,7,8-PeCDF
33:00	5.09e+04	3.11e+04	1.64 y	8.20e+04	4.78	
33:52	9.82e+04	7.07e+04	1.39 y	1.69e+05	9.85	
34:02	2.33e+05	1.64e+05	1.42 y	3.98e+05	23.2	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 15

File: 01FEB11M

S: 8 I: 1 F: 3

Acquired: 1-FEB-11 21:25:37

Total Concentration: 410

Unnamed Concentration: 378.545

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:10	5.69e+04	5.16e+04	1.10 y	1.09e+05	6.95	
35:27	2.73e+05	2.24e+05	1.22 y	4.97e+05	31.9	
35:49	2.96e+05	2.42e+05	1.22 y	5.39e+05	34.5	
36:03	1.61e+05	1.31e+05	1.22 y	2.92e+05	18.7	
36:10	4.50e+04	3.26e+04	1.38 y	7.75e+04	4.96	
36:22	4.27e+05	3.42e+05	1.25 y	7.69e+05	49.2	
36:38	3.72e+05	3.15e+05	1.18 y	6.87e+05	44.0	
37:00	3.87e+04	3.04e+04	1.27 y	6.91e+04	4.42	
37:09	3.71e+04	3.40e+04	1.09 y	7.11e+04	5.06	1,2,3,4,7,8-HxCDF
37:17	1.41e+05	1.08e+05	1.30 y	2.49e+05	15.9	
37:19	9.30e+04	7.14e+04	1.30 y	1.64e+05	9.83	1,2,3,6,7,8-HxCDF
37:34	1.38e+05	1.12e+05	1.23 y	2.49e+05	16.0	
38:01	1.28e+06	1.02e+06	1.26 y	2.29e+06	147	
38:18	1.36e+05	1.09e+05	1.24 y	2.45e+05	16.2	2,3,4,6,7,8-HxCDF
38:39	4.40e+04	3.87e+04	1.14 y	8.27e+04	5.30	

Totals class: Total Hepta-Furans

Entry #: 46

Run: 15

File: 01FEB11M

S: 8 I: 1 F: 4

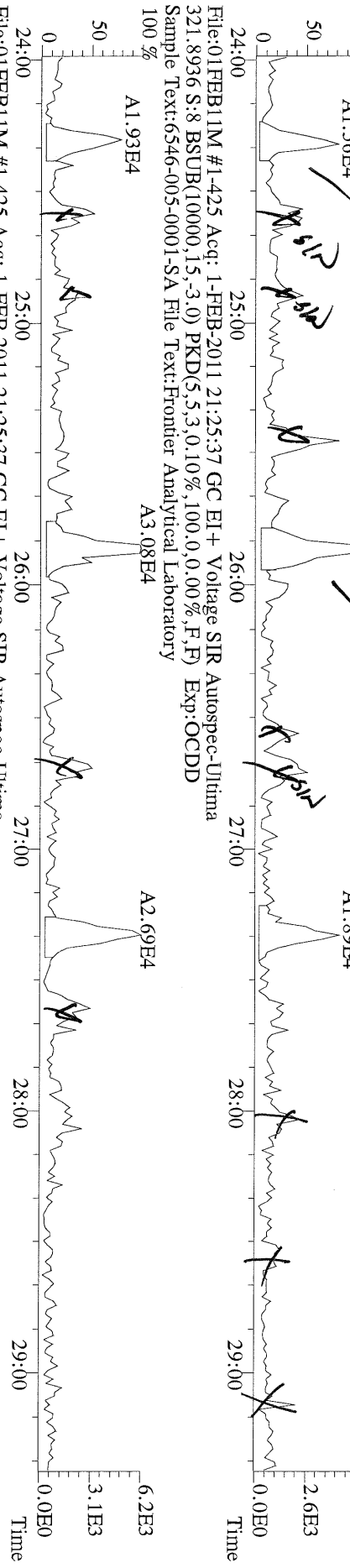
Acquired: 1-FEB-11 21:25:37

Total Concentration: 379

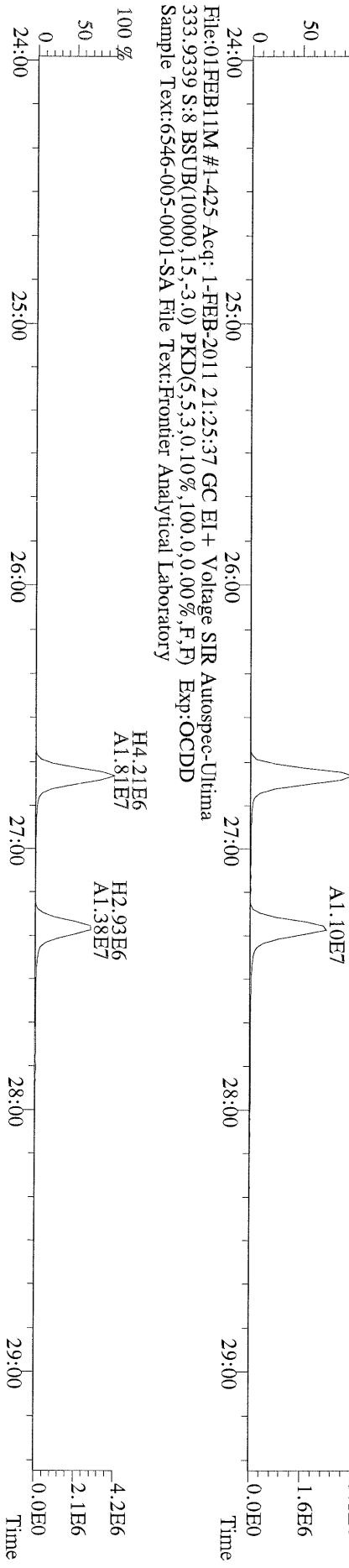
Unnamed Concentration: 241.539

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:14	8.29e+05	7.82e+05	1.06 y	1.61e+06	126	1,2,3,4,6,7,8-HpCDF
42:47	3.66e+04	3.51e+04	1.04 y	7.17e+04	6.35	
43:04	1.37e+06	1.28e+06	1.07 y	2.66e+06	235	
45:05	6.15e+04	5.31e+04	1.16 y	1.15e+05	11.7	1,2,3,4,7,8,9-HpCDF

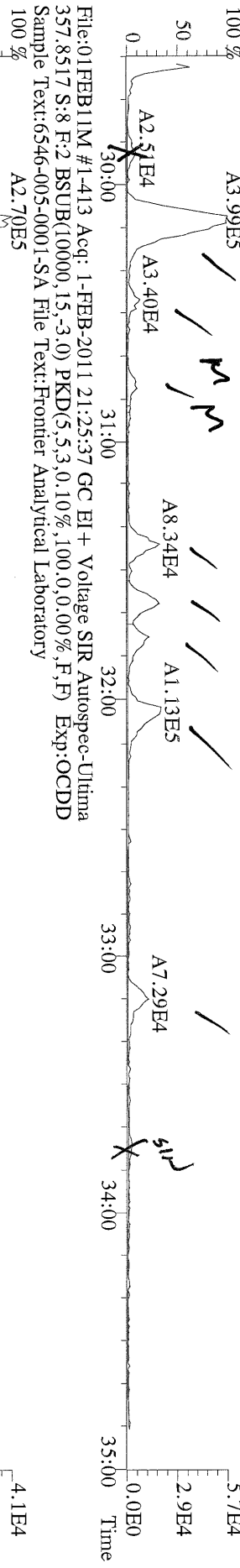
File:01FEB11M #1-425 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Utima
319.8965 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



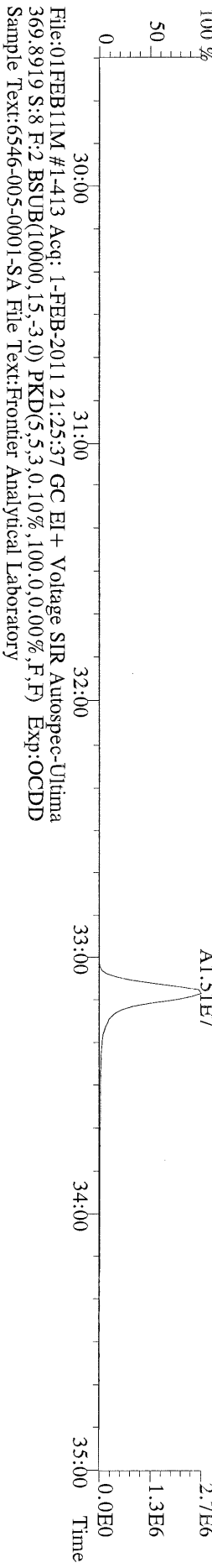
File:01FEB11M #1-425 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Utima
327.8847 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



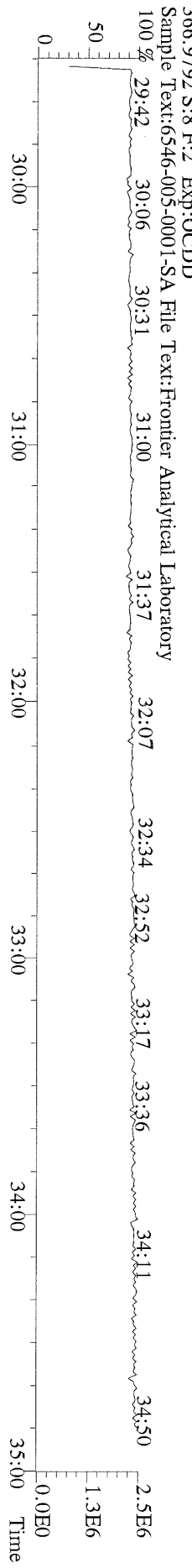
File:01FEB11M #1-413 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



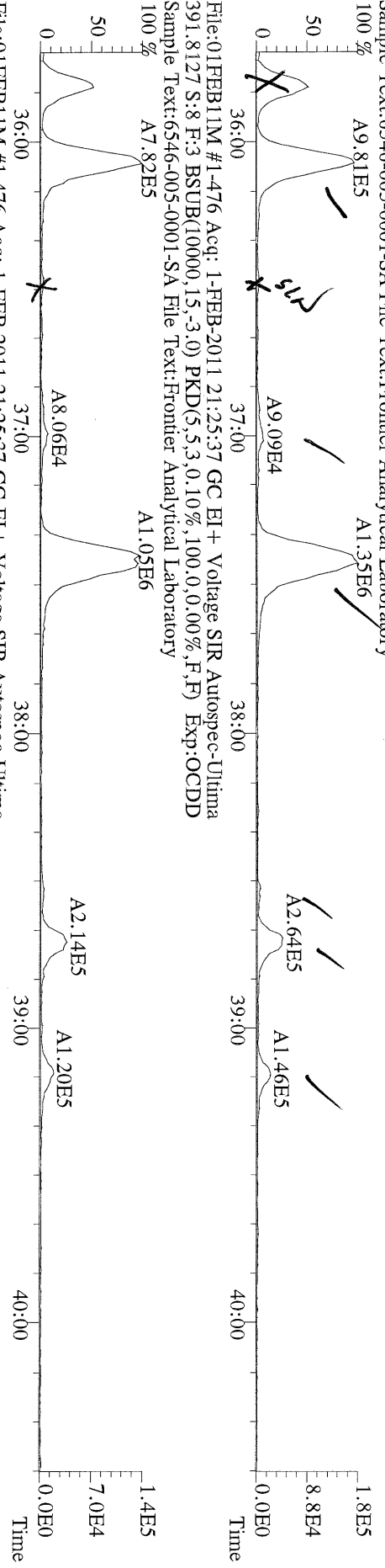
File:01FEB11M #1-413 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:8 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



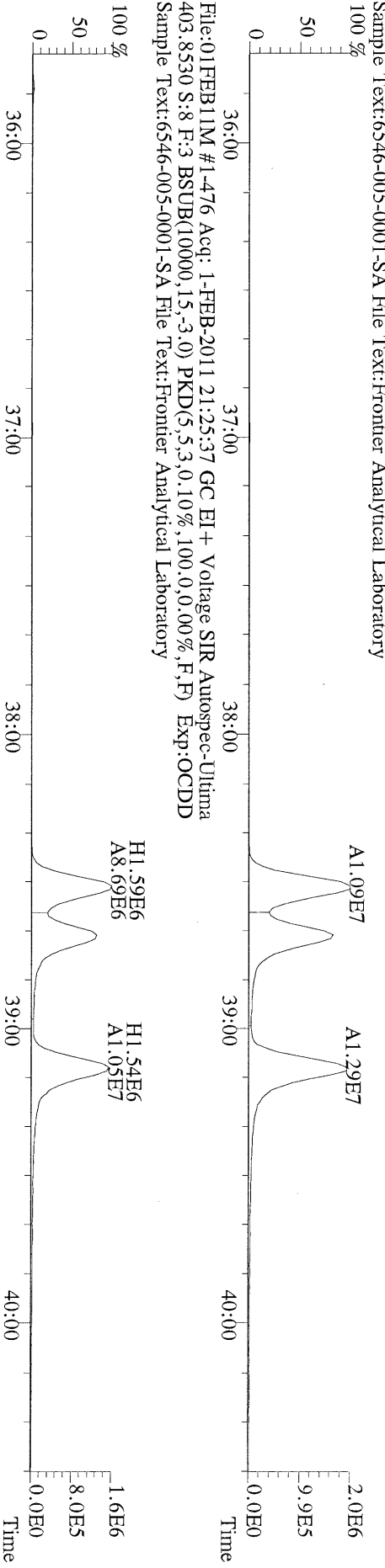
File:01FEB11M #1-413 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:8 F:2 Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



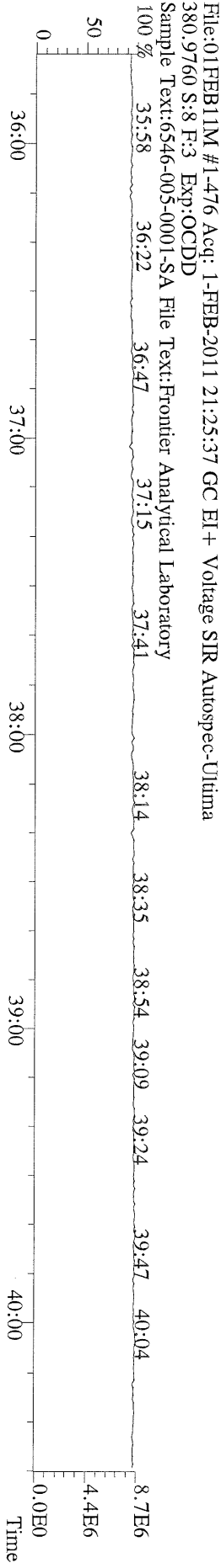
File:01FEB11M #1-476 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



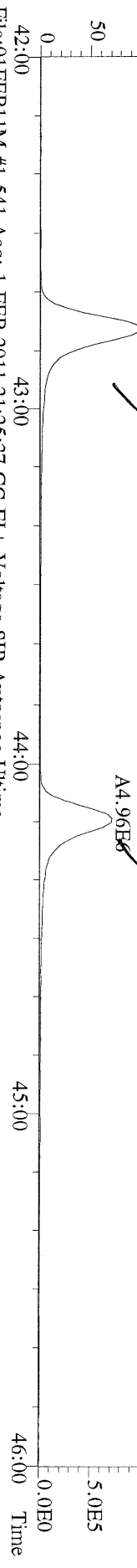
File:01FEB11M #1-476 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



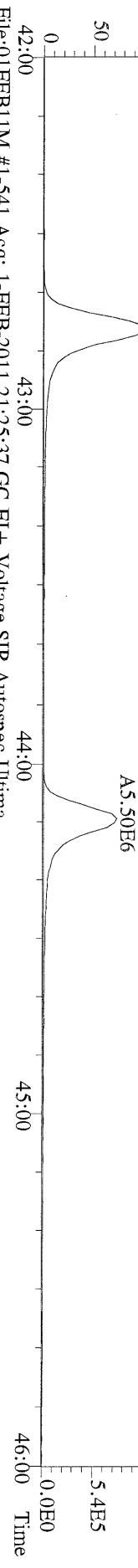
File:01FEB11M #1-476 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:8 F:3 Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



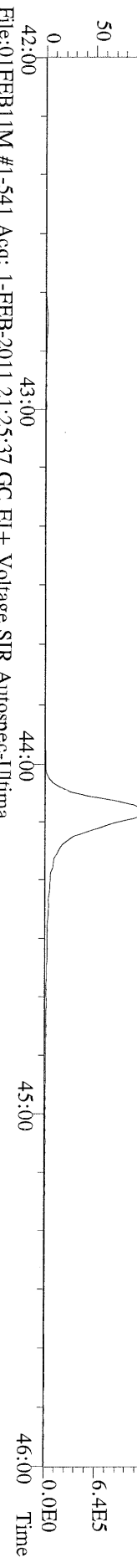
File:01FEB11M #1-541 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory
100 %



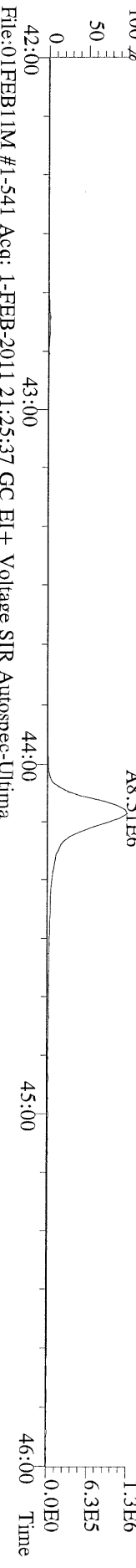
File:01FEB11M #1-541 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory
100 %



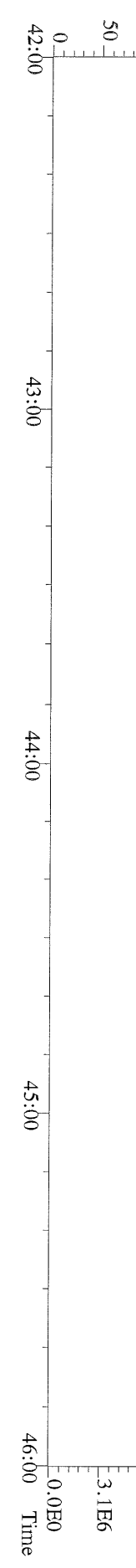
File:01FEB11M #1-541 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory
100 %



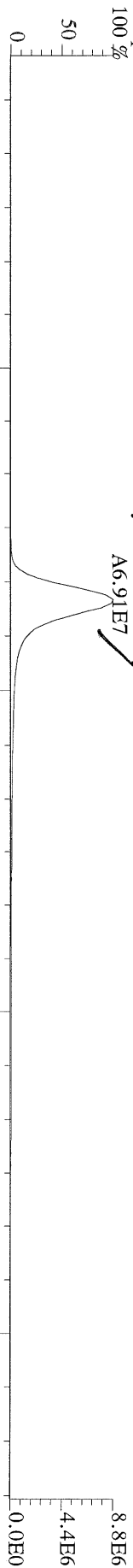
File:01FEB11M #1-541 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory
100 %



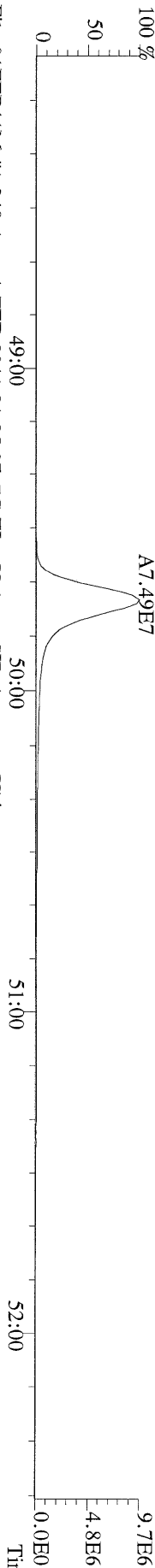
File:01FEB11M #1-541 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:8 F:4 Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory
100 %



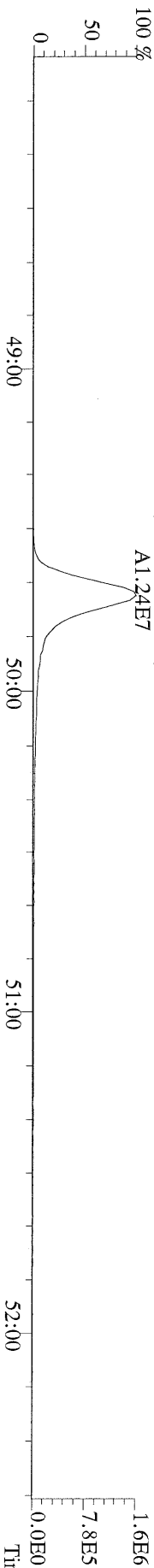
File:01FEB11M #1-348 Acq: 1-FEB-2011 21:25:37 GC EI + Voltage SIR Autospec-Ultima
457.7377 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



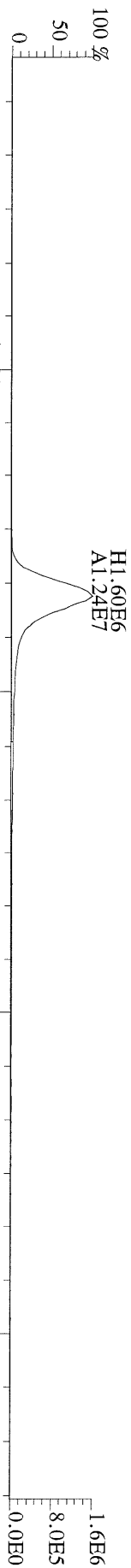
File:01FEB11M #1-348 Acq: 1-FEB-2011 21:25:37 GC EI + Voltage SIR Autospec-Ultima
459.7348 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



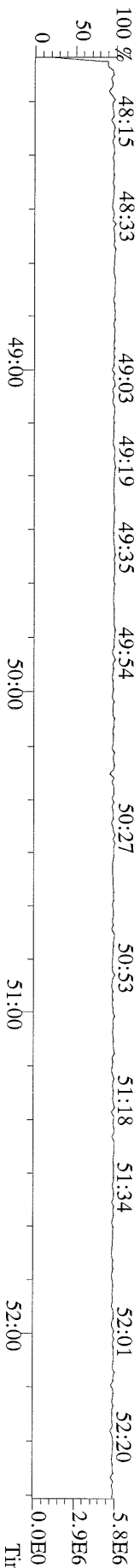
File:01FEB11M #1-348 Acq: 1-FEB-2011 21:25:37 GC EI + Voltage SIR Autospec-Ultima
469.7780 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



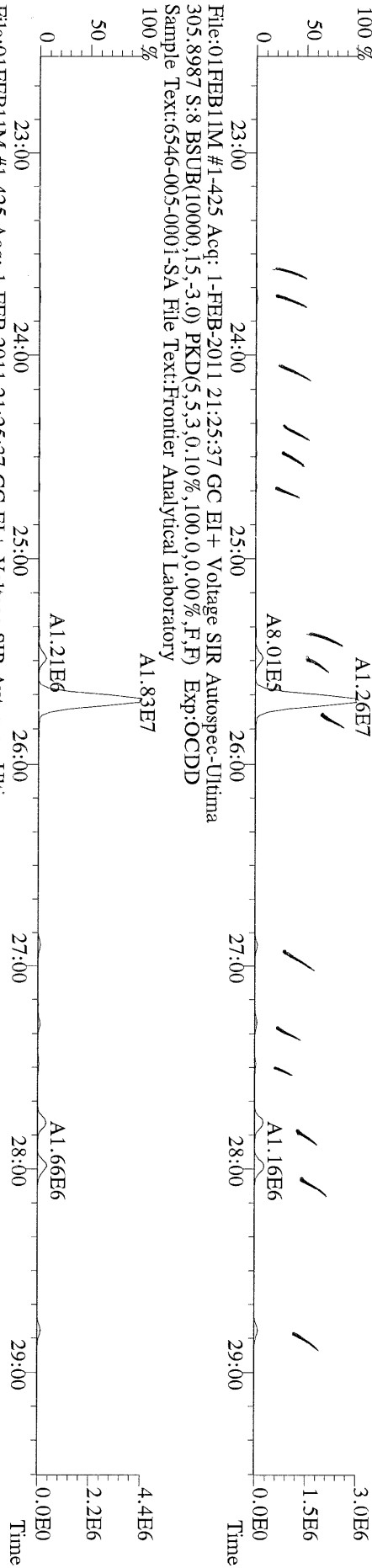
File:01FEB11M #1-348 Acq: 1-FEB-2011 21:25:37 GC EI + Voltage SIR Autospec-Ultima
471.7750 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



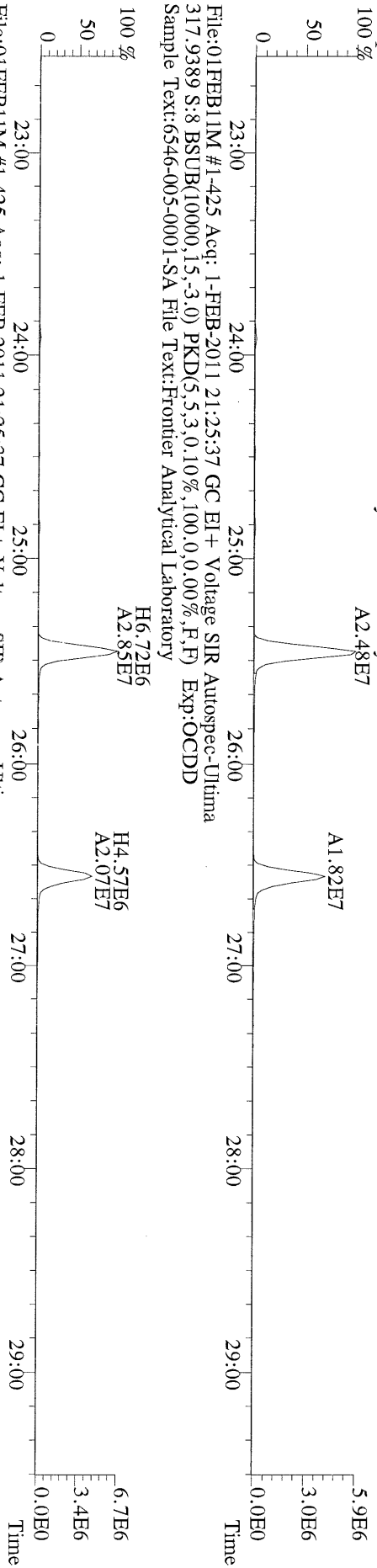
File:01FEB11M #1-348 Acq: 1-FEB-2011 21:25:37 GC EI + Voltage SIR Autospec-Ultima
454.9728 S:8 F:5 Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



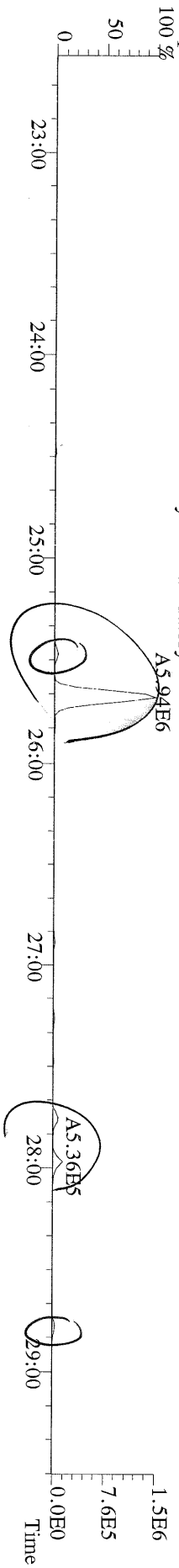
File:01FEB11M #1-425 Acq: 1-FEB-2011 21:25:37 GC EI + Voltage SIR Autospec-Ultima
303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



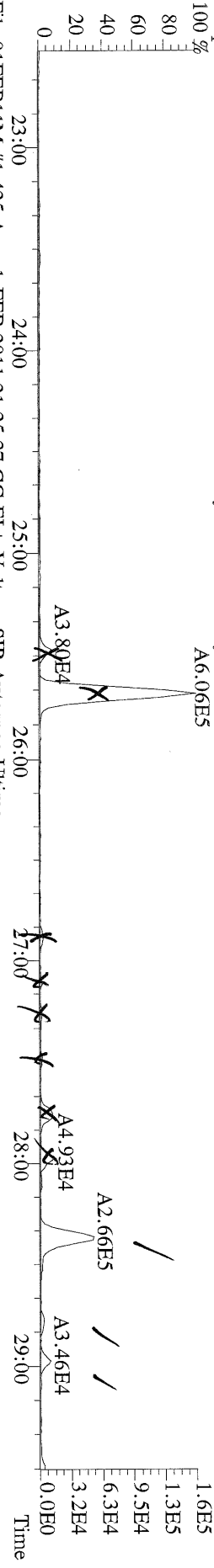
File:01FEB11M #1-425 Acq: 1-FEB-2011 21:25:37 GC EI + Voltage SIR Autospec-Ultima
315.9419 S:8 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



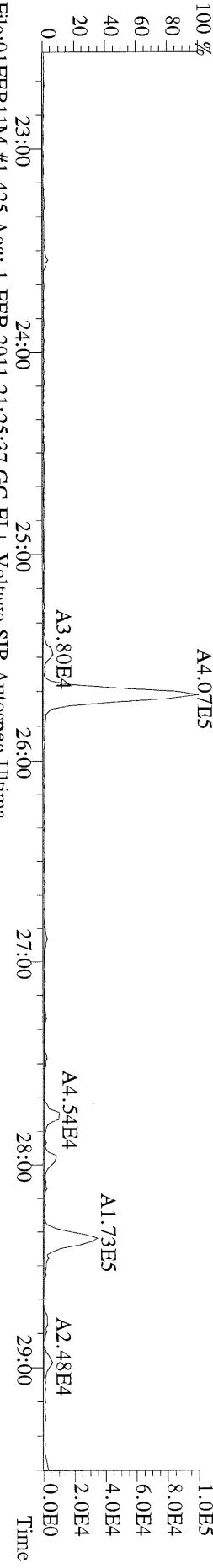
File:01FEB11M #1-425 Acq: 1-FEB-2011 21:25:37 GC EI + Voltage SIR Autospec-Ultima
375.8364 S:8 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



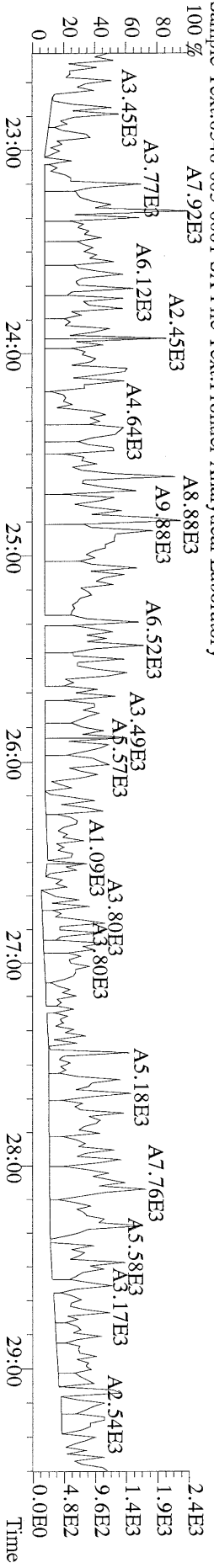
File:01FEB11M #1-425 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Utima
 339.8568 S:8 BSUB(10000,15,-3,0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



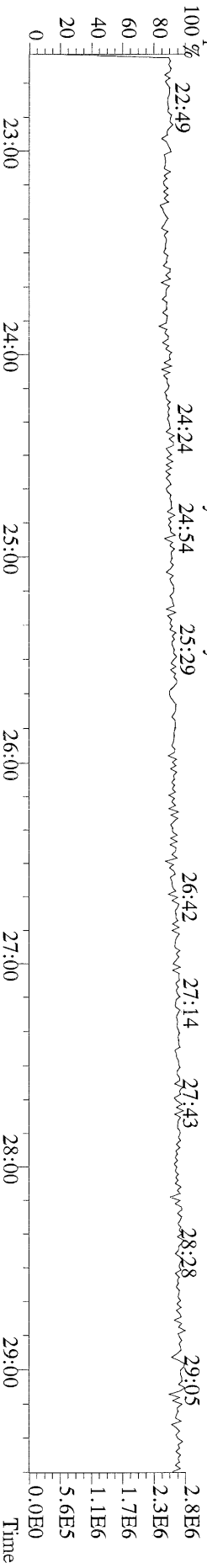
File:01FEB11M #1-425 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Utima
 341.8568 S:8 BSUB(10000,15,-3,0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



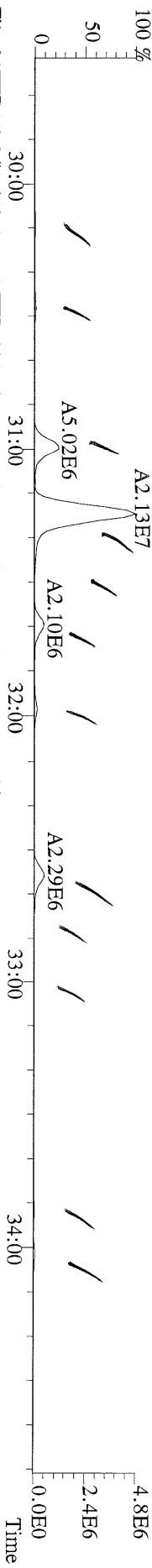
File:01FEB11M #1-425 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Utima
 409.7974 S:8 BSUB(10000,15,-3,0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD
 Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



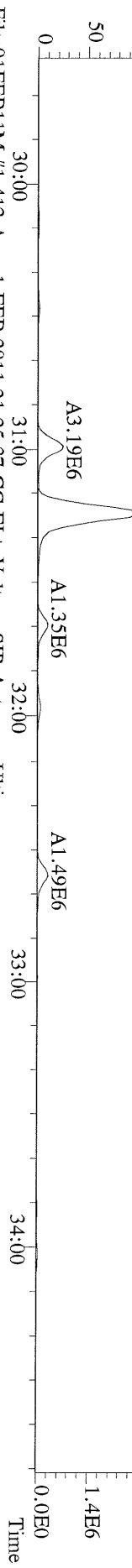
File:01FEB11M #1-425 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Utima
 LOCK MASS CHECK S:8 Exp:OCDD
 Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



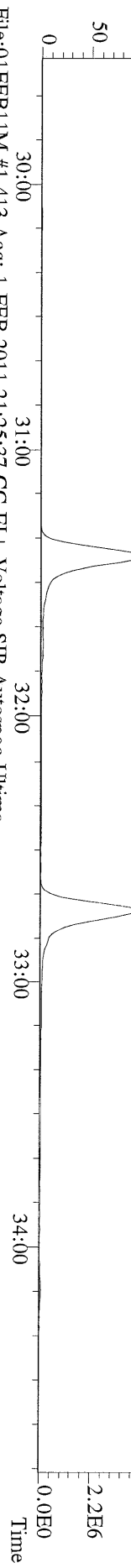
File:01FEB11M #1-413 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:8 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



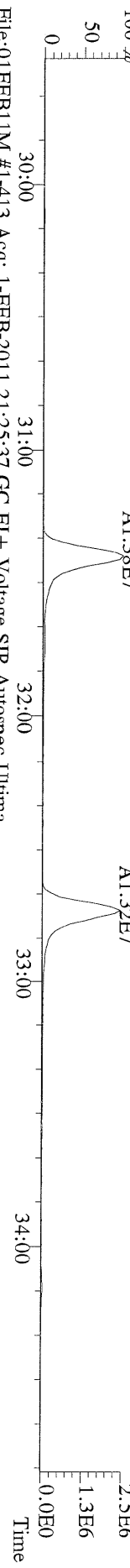
File:01FEB11M #1-413 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:8 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



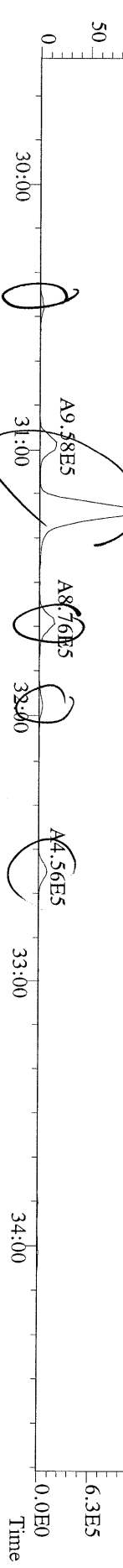
File:01FEB11M #1-413 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:8 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



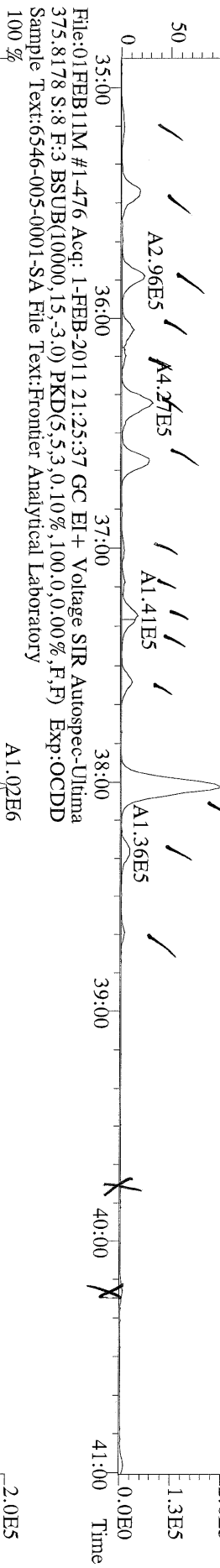
File:01FEB11M #1-413 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:8 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



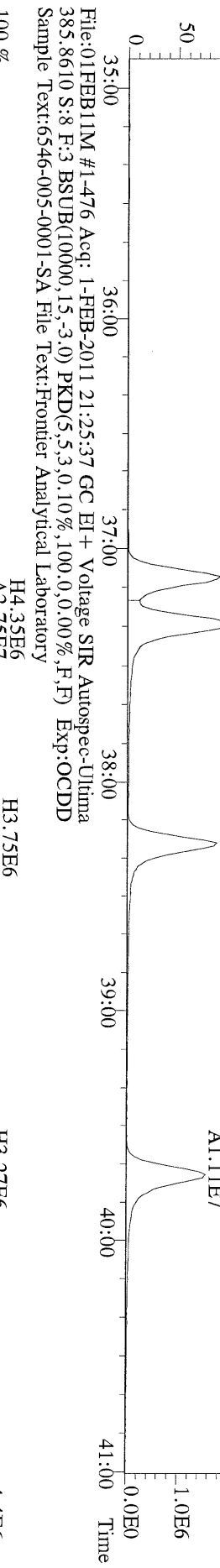
File:01FEB11M #1-413 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:8 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



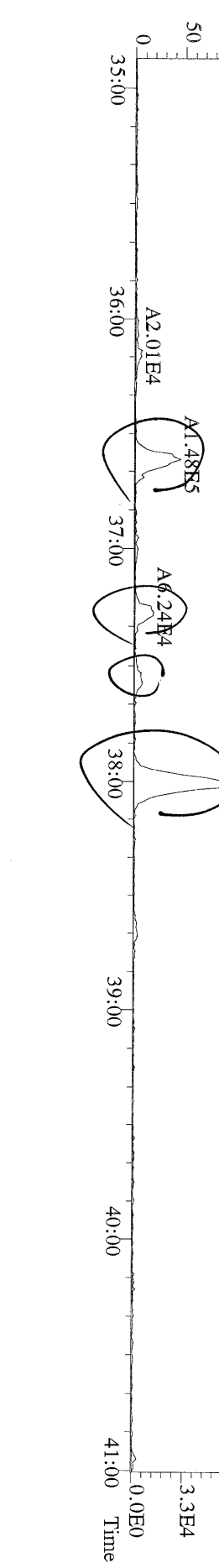
File:01FEB11M #1-476 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



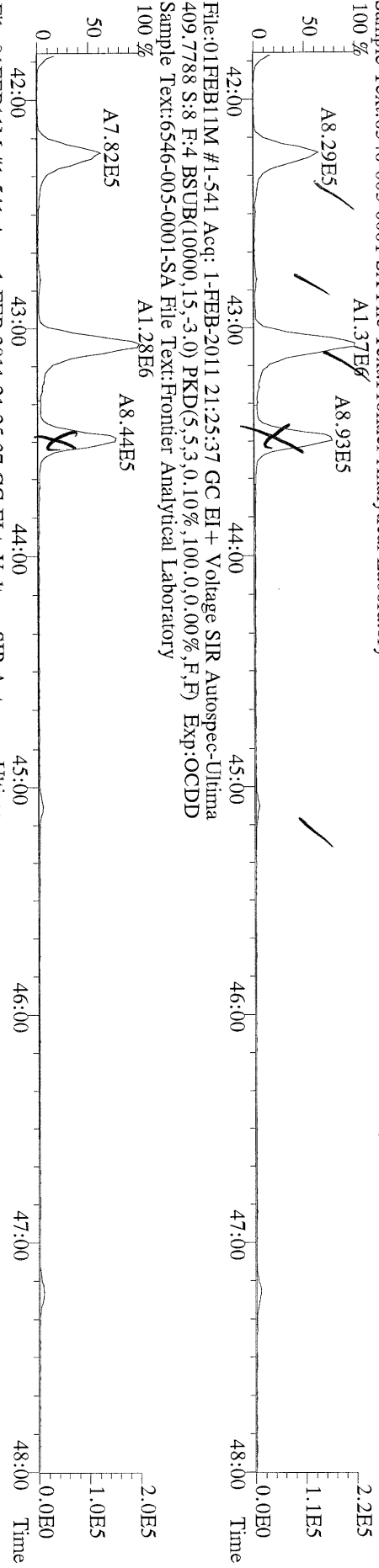
File:01FEB11M #1-476 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



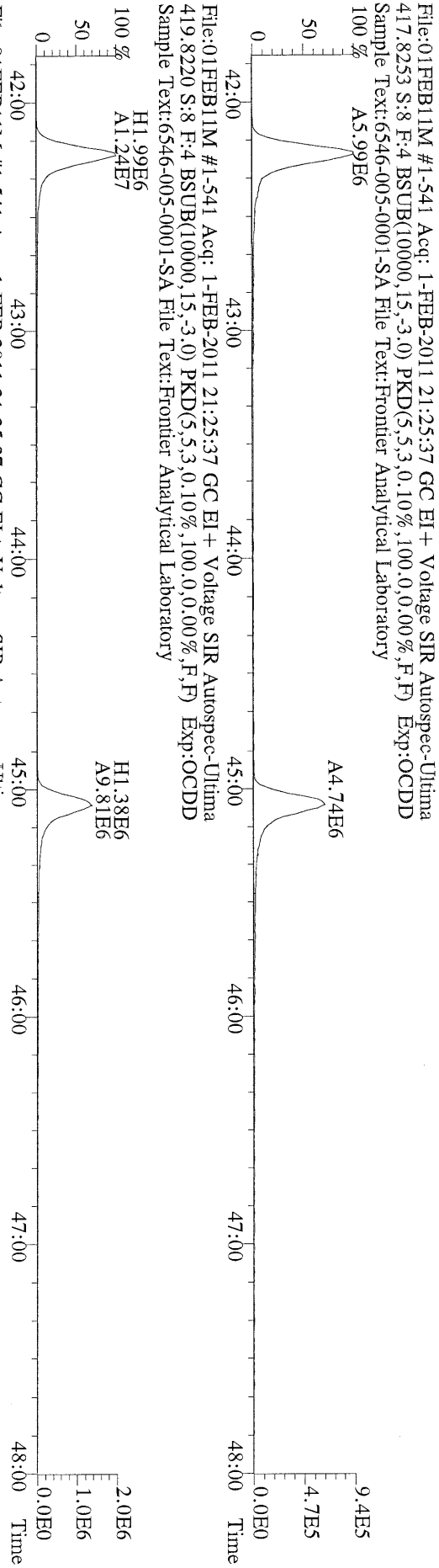
File:01FEB11M #1-476 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



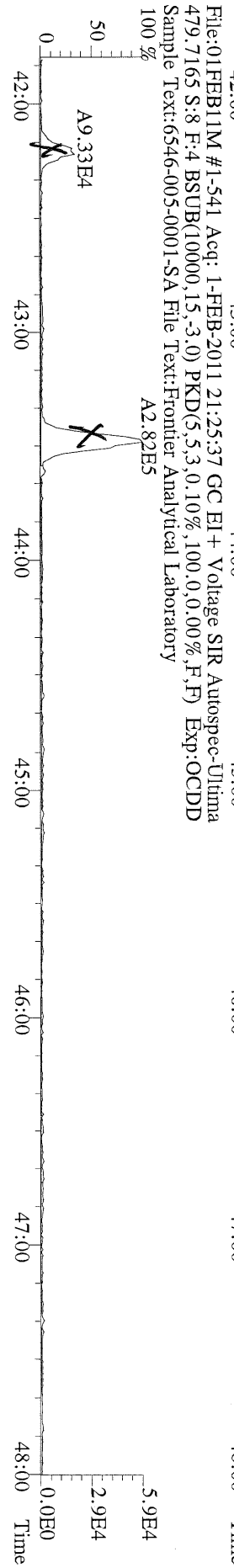
File:01FEB11M #1-541 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



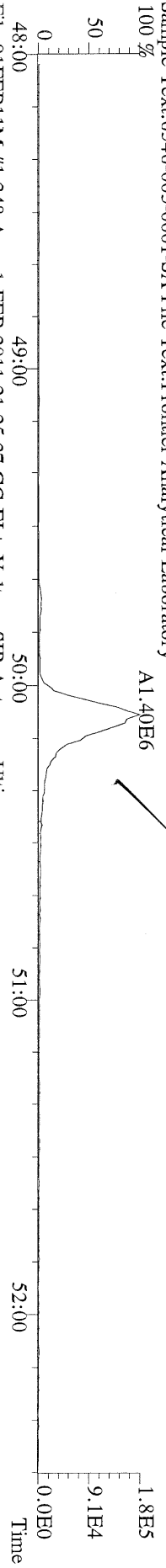
File:01FEB11M #1-541 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



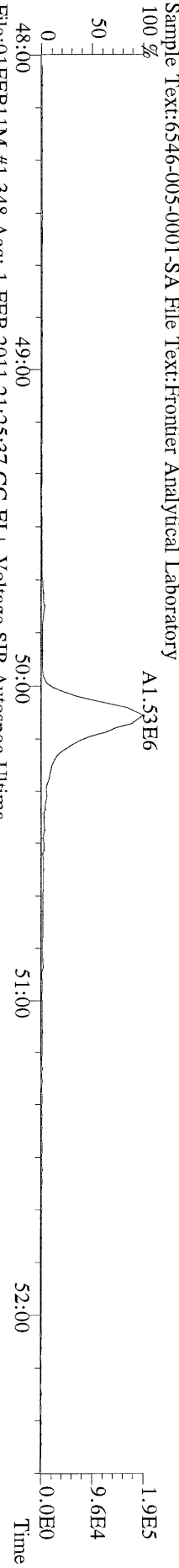
File:01FEB11M #1-541 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



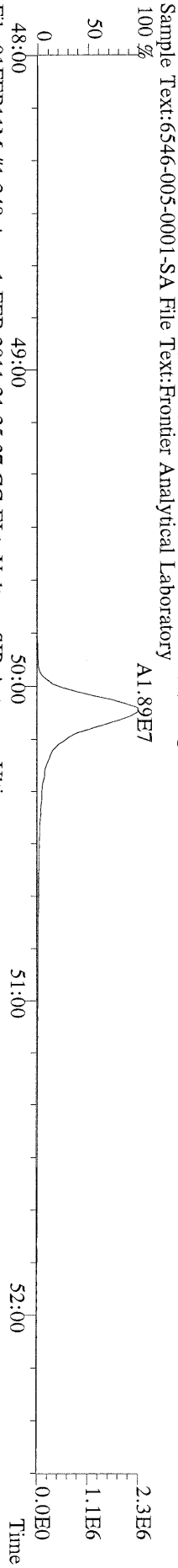
File:01FEB11M #1-348 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Utima
441.7428 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



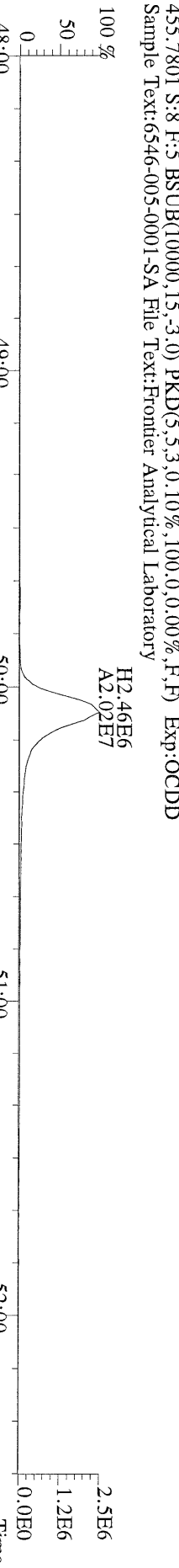
File:01FEB11M #1-348 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Utima
443.7398 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



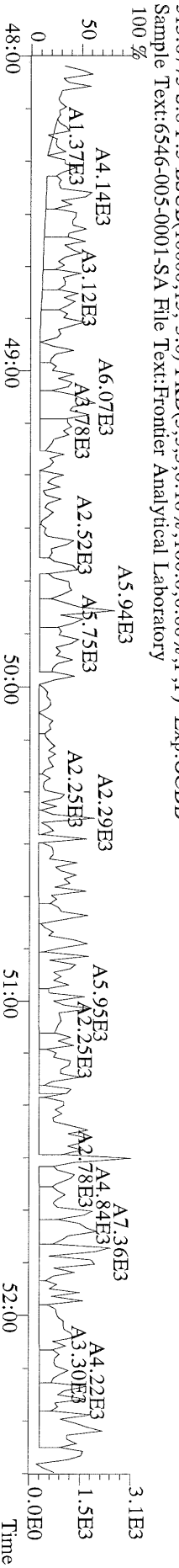
File:01FEB11M #1-348 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Utima
453.7831 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory




File:01FEB11M #1-348 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Utima
455.7801 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



File:01FEB11M #1-348 Acq: 1-FEB-2011 21:25:37 GC EI+ Voltage SIR Autospec-Utima
513.6775 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-005-0001-SA File Text:Frontier Analytical Laboratory



Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	#Hom	
2,3,7,8-TCDD	*	* n	NotFnd	1.11	*		2.50	895	1180	4.54	
1,2,3,7,8-PeCDD	3.89e+04	1.48 y	33:09	1.10	7.94	J	2.50	-	-	*	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	1210	935	5.61	
1,2,3,6,7,8-HxCDD	2.14e+05	1.19 y	38:43	1.37	46.6	J	2.50	-	-	*	
1,2,3,7,8,9-HxCDD	8.40e+04	1.21 y	39:08	1.36	17.6	J	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	4.12e+06	0.93 y	44:09	1.45	920		2.50	-	-	*	
OCDD	4.12e+07	0.93 y	49:43	1.43	13300		2.50	-	-	*	
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	1290	1610	3.10	
1,2,3,7,8-PeCDF	8.61e+04	1.56 y	31:24	0.94	13.0	J	2.50	-	-	*	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	1110	787	4.02	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	766	718	3.89	
1,2,3,6,7,8-HxCDF	3.90e+04	1.14 y	37:20	0.82	6.56	D,J,M	2.50	-	-	*	
2,3,4,6,7,8-HxCDF	9.84e+04	1.22 y	38:18	0.92	17.4	J	2.50	-	-	*	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	766	718	4.25	
1,2,3,4,6,7,8-HpCDF	4.47e+05	1.15 y	42:13	1.39	94.9		2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	3.11e+04	1.06 y	45:04	1.36	8.75	J	2.50	-	-	*	
OCDF	8.28e+05	0.86 y	50:05	0.79	294		2.50	-	-	*	
Rec											
13C-2,3,7,8-TCDD	2.04e+07	0.75 y	27:18	1.02	2710					61.2	
13C-1,2,3,7,8-PeCDD	1.97e+07	1.73 y	33:07	0.84	3190					72.0	
13C-1,2,3,4,7,8-HxCDD	1.62e+07	1.25 y	38:30	1.07	2890					65.2	
13C-1,2,3,6,7,8-HxCDD	1.48e+07	1.23 y	38:40	1.01	2810					63.4	
13C-1,2,3,4,6,7,8-HpCDD	1.37e+07	0.98 y	44:08	0.86	3060					69.0	
13C-OCDD	1.92e+07	0.97 y	49:41	0.55	6740					76.0	
13C-2,3,7,8-TCDF	3.13e+07	0.88 y	26:32	0.99	2560					57.7	
13C-1,2,3,7,8-PeCDF	3.12e+07	1.70 y	31:23	0.84	3030					68.3	
13C-2,3,4,7,8-PeCDF	3.02e+07	1.68 y	32:43	0.81	3030					68.2	
13C-1,2,3,4,7,8-HxCDF	2.49e+07	0.49 y	37:07	1.85	2570					58.0	
13C-1,2,3,6,7,8-HxCDF	3.21e+07	0.49 y	37:19	2.54	2420					54.7	
13C-2,3,4,6,7,8-HxCDF	2.73e+07	0.51 y	38:15	2.01	2600					58.6	
13C-1,2,3,7,8,9-HxCDF	2.64e+07	0.50 y	39:42	2.03	2490					56.2	
13C-1,2,3,4,6,7,8-HpCDF	1.50e+07	0.50 y	42:13	1.11	2590					58.5	
13C-1,2,3,4,7,8,9-HpCDF	1.16e+07	0.50 y	45:03	0.80	2770					62.5	
13C-OCDF	3.18e+07	0.93 y	50:04	1.08	5630					63.5	
37Cl-2,3,7,8-TCDD	5.75e+06		27:19	0.69	1140					64.5	
13C-1,2,3,4-TCDD	3.25e+07	0.78 y	26:43	-	160						
13C-1,2,3,4-TCDF	5.45e+07	0.88 y	25:27	-	167						
13C-1,2,3,7,8,9-HxCDD	2.31e+07	1.26 y	39:07	-	186						
Total Tetra-Dioxins	*		NotFnd	1.11	*		2.50	895	1180	4.54	0
Total Penta-Dioxins	7.88e+05		30:07	1.10	161	M	2.50	-	-	*	7
Total Hexa-Dioxins	2.16e+06		36:03	1.37	452		2.50	-	-	*	5
Total Hepta-Dioxins	8.61e+06		42:45	1.45	1920		2.50	-	-	*	2
Total Tetra-Furans	1.04e+07		23:43	1.50	984	D,M	2.50	-	-	*	10
1st Fn. Tot Penta-Furans	1.75e+05		28:21	0.94	26.9	D,M	2.50	-	-	* PeCDF	2
Total Penta-Furans	1.49e+07		30:09	0.94	2290	D,M	2.50	-	-	* 2320	10
Total Hexa-Furans	1.88e+06		35:27	0.91	331	D,M	2.50	-	-	*	10
Total Hepta-Furans	1.24e+06		42:13	1.38	289		2.50	-	-	*	3

Analyst:  Date: 2/2/11

Totals class: Total Penta-Dioxins

Entry #: 39

Run: 16

File: 01FEB11M

S: 9 I: 1 F: 2

Acquired: 1-FEB-11 22:20:56

Total Concentration: 161

Unnamed Concentration: 153.190

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:07	2.91e+05	1.92e+05	1.51 y	4.83e+05	98.8	
30:26	1.89e+04	3.02e+04	0.63 n	3.10e+04	6.35	
31:23	3.63e+04	2.27e+04	1.60 y	5.90e+04	12.1	
31:38	3.56e+04	2.22e+04	1.61 y	5.78e+04	11.8	
31:46	2.46e+04	1.42e+04	1.73 y	3.88e+04	7.94	
32:01	4.85e+04	3.11e+04	1.56 y	7.96e+04	16.3	
33:09	2.32e+04	1.57e+04	1.48 y	3.89e+04	7.94	1,2,3,7,8-PeCDD

Totals class: Total Hexa-Dioxins

Entry #: 40

Run: 16

File: 01FEB11M

S: 9 I: 1 F: 3

Acquired: 1-FEB-11 22:20:56

Total Concentration: 452

Unnamed Concentration: 387.997

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:03	5.38e+05	4.29e+05	1.26 y	9.67e+05	202	
36:59	4.22e+04	3.09e+04	1.37 y	7.31e+04	15.3	
37:24	4.61e+05	3.58e+05	1.29 y	8.19e+05	171	
38:43	1.16e+05	9.76e+04	1.19 y	2.14e+05	46.6	1,2,3,6,7,8-HxCDD
39:08	4.60e+04	3.80e+04	1.21 y	8.40e+04	17.6	1,2,3,7,8,9-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 16

File: 01FEB11M

S: 9 I: 1 F: 4

Acquired: 1-FEB-11 22:20:56

Total Concentration: 1920

Unnamed Concentration: 1000.777

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:45	2.12e+06	2.36e+06	0.90 y	4.48e+06	1000	
44:09	1.99e+06	2.14e+06	0.93 y	4.12e+06	920	1,2,3,4,6,7,8-HpCDD

Totals class: Total Tetra-Furans

Entry #: 42

Run: 16

File: 01FEB11M

S: 9 I: 1 F: 1

Acquired: 1-FEB-11 22:20:56

Total Concentration: 984

Unnamed Concentration: 983.953

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
23:43	2.59e+04	3.70e+04	0.70 y	6.29e+04	5.94	
24:19	2.47e+04	3.32e+04	0.74 y	5.79e+04	5.47	
24:38	2.45e+04	2.79e+04	0.88 y	5.25e+04	4.95	
25:28	2.67e+05	4.04e+05	0.66 y	6.71e+05	63.3	
25:41	3.13e+06	4.52e+06	0.69 y	7.65e+06	722	
26:53	1.31e+05	1.69e+05	0.77 y	3.00e+05	28.3	
27:16	7.23e+04	8.96e+04	0.81 y	1.62e+05	15.3	
27:29	4.01e+04	4.83e+04	0.83 y	8.83e+04	8.34	
27:45	2.56e+05	3.89e+05	0.66 y	6.45e+05	60.9	
27:58	3.05e+05	4.26e+05	0.72 y	7.31e+05	69.0	

Totals class: 1st Fn. Tot Penta-Furans Entry #: 43

Run: 16 File: 01FEB11M S: 9 I: 1 F: 1
Acquired: 1-FEB-11 22:20:56

Total Concentration: 26.9 Unnamed Concentration: 26.917

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
28:21	8.59e+04	5.15e+04	1.67 y	1.37e+05	21.1	
28:57	2.30e+04	1.45e+04	1.59 y	3.75e+04	5.78	

Totals class: Total Penta-Furans

Entry #: 44

Run: 16

File: 01FEB11M

S: 9 I: 1 F: 2

Acquired: 1-FEB-11 22:20:56

Total Concentration: 2290

Unnamed Concentration: 2280.163

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
30:09	4.36e+04	2.98e+04	1.46 y	7.34e+04	11.3	
30:28	5.86e+04	3.86e+04	1.52 y	9.72e+04	15.0	
30:59	1.45e+06	9.21e+05	1.58 y	2.37e+06	365	
31:13	5.55e+06	3.60e+06	1.54 y	9.16e+06	1410	
31:24	5.25e+04	3.36e+04	1.56 y	8.61e+04	13.0	1,2,3,7,8-PeCDF
31:40	5.84e+05	3.60e+05	1.62 y	9.43e+05	145	
31:58	1.76e+05	1.03e+05	1.71 y	2.79e+05	42.9	
32:35	1.04e+06	6.85e+05	1.52 y	1.72e+06	265	
33:50	3.57e+04	2.60e+04	1.37 y	6.17e+04	9.50	
34:01	6.68e+04	4.35e+04	1.54 y	1.10e+05	17.0	

Totals class: Total Hexa-Furans

Entry #: 45

Run: 16

File: 01FEB11M

S: 9 I: 1 F: 3

Acquired: 1-FEB-11 22:20:56

Total Concentration: 331

Unnamed Concentration: 307.008

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:27	8.61e+04	6.71e+04	1.28 y	1.53e+05	27.0	
35:48	1.53e+05	1.13e+05	1.35 y	2.66e+05	46.9	
36:03	8.88e+04	6.26e+04	1.42 y	1.51e+05	26.7	
36:22	1.24e+05	1.01e+05	1.22 y	2.25e+05	39.6	
36:36	8.69e+04	7.03e+04	1.24 y	1.57e+05	27.7	
37:17	5.66e+04	4.57e+04	1.24 y	1.02e+05	18.0	
37:20	2.08e+04	1.82e+04	1.14 y	3.90e+04	6.56	1,2,3,6,7,8-HxCDF
37:33	3.37e+04	2.72e+04	1.24 y	6.09e+04	10.7	
38:00	3.46e+05	2.81e+05	1.23 y	6.27e+05	110	
38:18	5.42e+04	4.42e+04	1.22 y	9.84e+04	17.4	2,3,4,6,7,8-HxCDF

Totals class: Total Hepta-Furans

Entry #: 46

Run: 16

File: 01FEB11M

S: 9 I: 1 F: 4

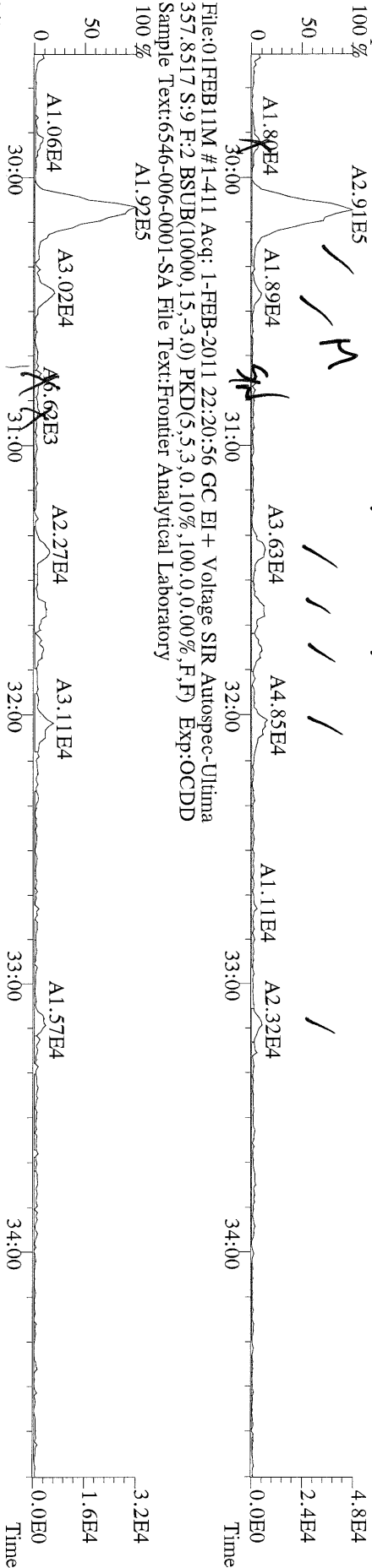
Acquired: 1-FEB-11 22:20:56

Total Concentration: 289

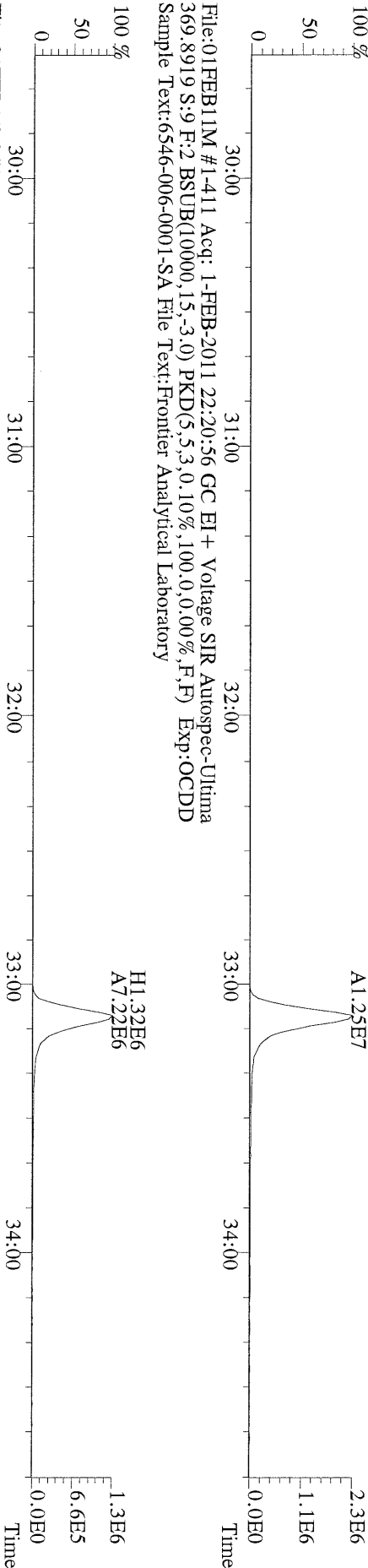
Unnamed Concentration: 185.099

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:13	2.39e+05	2.07e+05	1.15 y	4.47e+05	94.9	1,2,3,4,6,7,8-HpCDF
43:04	4.03e+05	3.63e+05	1.11 y	7.65e+05	185	
45:04	1.60e+04	1.51e+04	1.06 y	3.11e+04	8.75	1,2,3,4,7,8,9-HpCDF

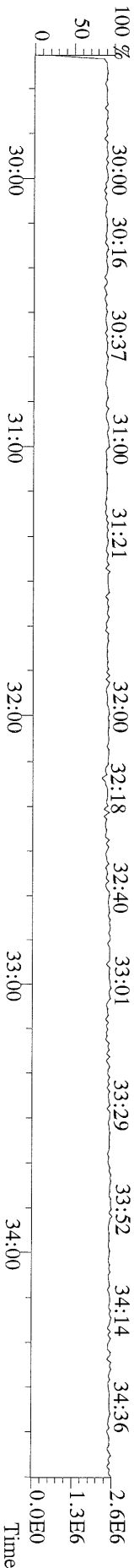
File:01FEB11M #1-411 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



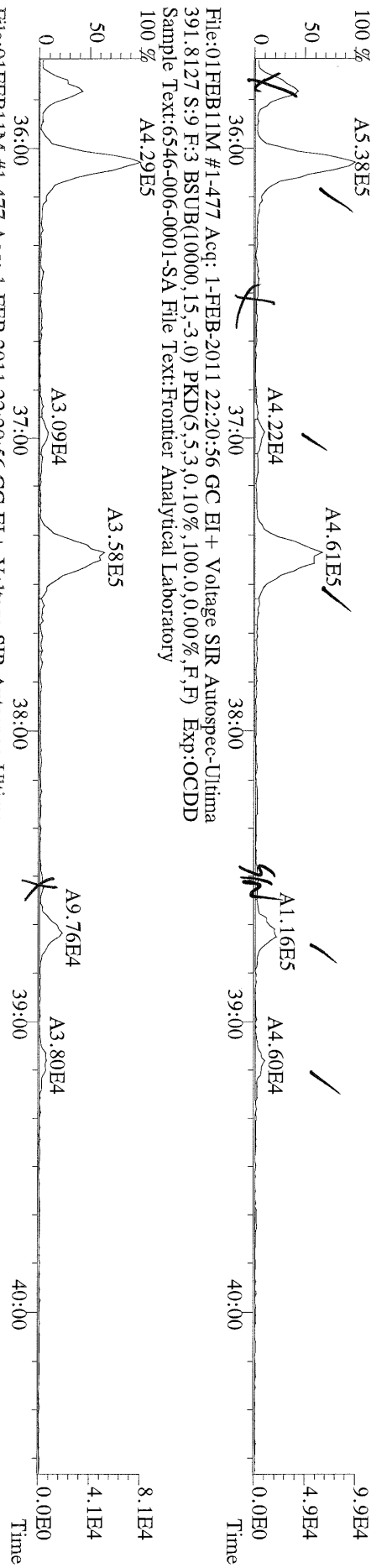
File:01FEB11M #1-411 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



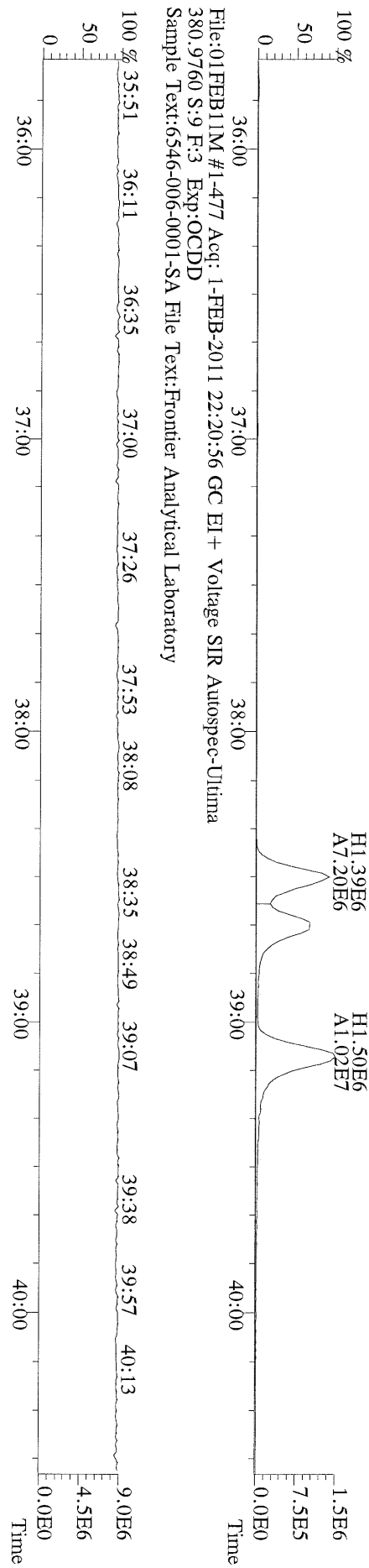
File:01FEB11M #1-411 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:9 F:2 Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



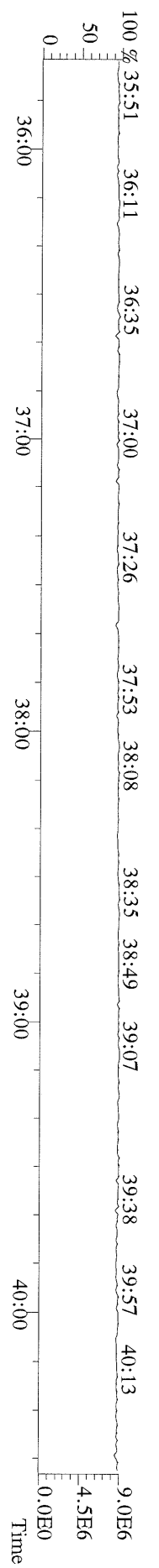
File:01FEB11M #1-477 Acq: 1-FEB-2011 22:20:56 GC EI + Voltage SIR Autospec-Ultima
389.8156 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



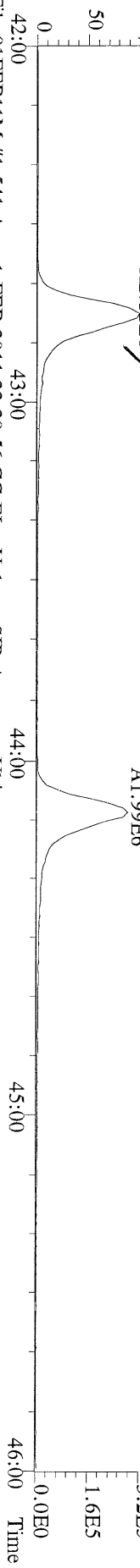
File:01FEB11M #1-477 Acq: 1-FEB-2011 22:20:56 GC EI + Voltage SIR Autospec-Ultima
401.8559 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



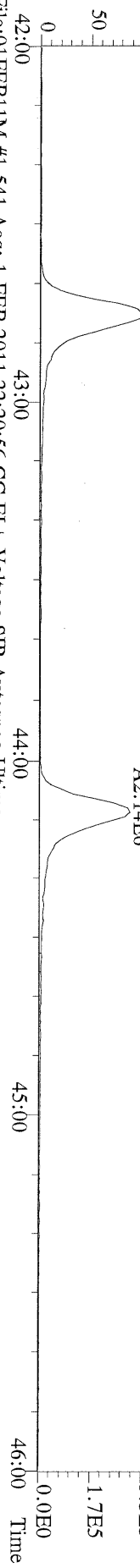
File:01FEB11M #1-477 Acq: 1-FEB-2011 22:20:56 GC EI + Voltage SIR Autospec-Ultima
380.9760 S:9 F:3 Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



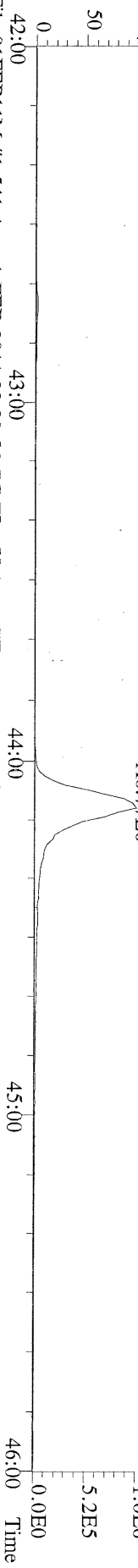
File:01FEB11M #1-541 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Utima
423.7767 S:9 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,I) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



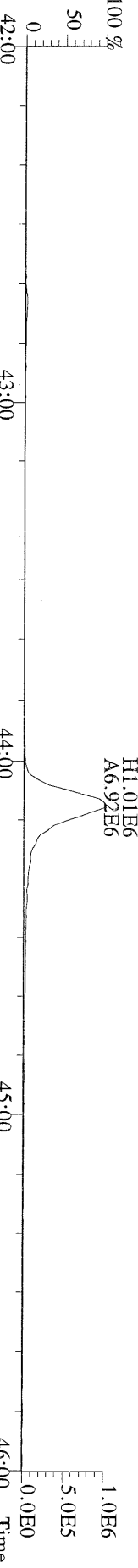
File:01FEB11M #1-541 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Utima
425.7737 S:9 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,I) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



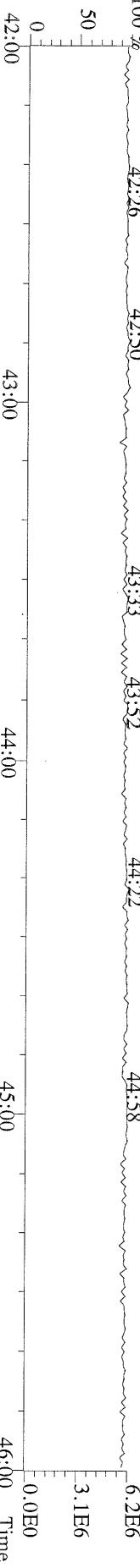
File:01FEB11M #1-541 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Utima
435.8169 S:9 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,I) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



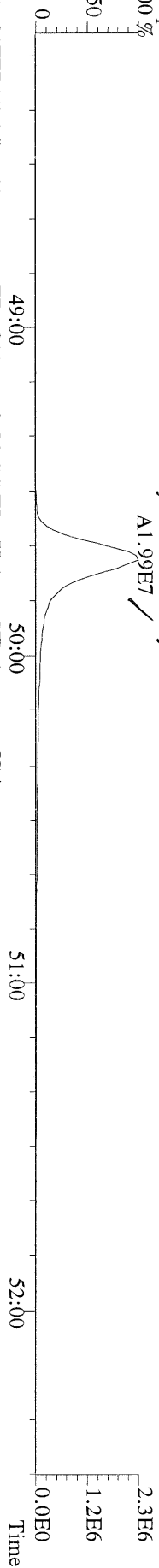
File:01FEB11M #1-541 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Utima
437.8140 S:9 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,I) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



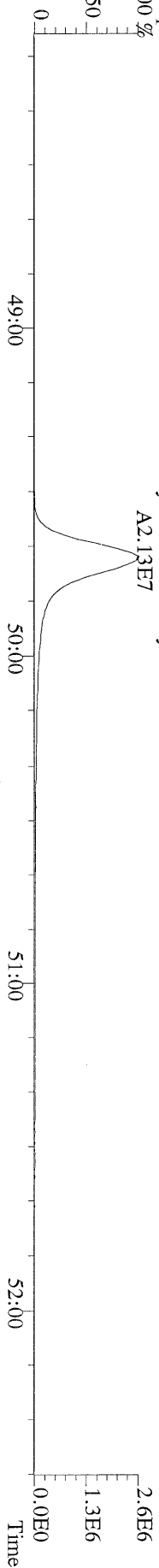
File:01FEB11M #1-541 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Utima
430.9728 S:9 F:4 Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



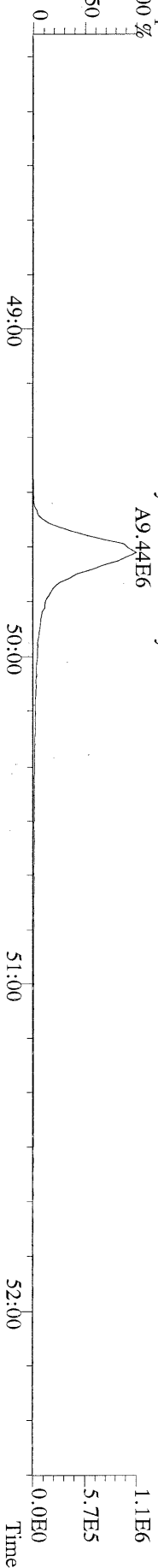
File:01FEB11M #1-348 Acq: 1-FEB-2011 22:20:56 GC EI + Voltage SIR Autospec-Ultima
457.7377 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



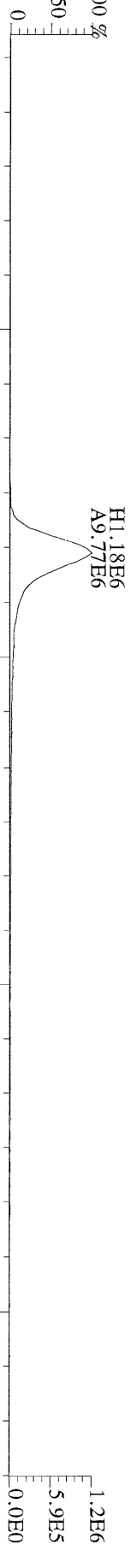
File:01FEB11M #1-348 Acq: 1-FEB-2011 22:20:56 GC EI + Voltage SIR Autospec-Ultima
459.7348 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



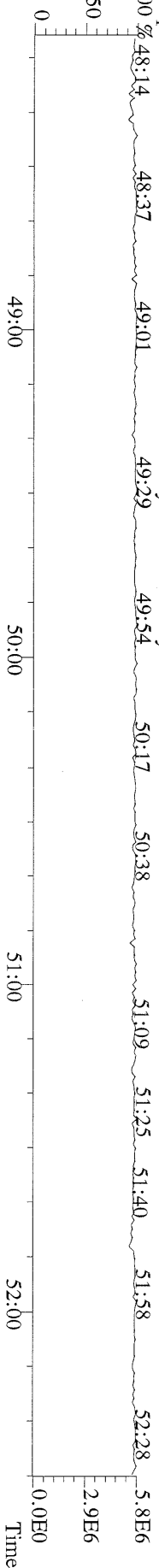
File:01FEB11M #1-348 Acq: 1-FEB-2011 22:20:56 GC EI + Voltage SIR Autospec-Ultima
469.7780 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



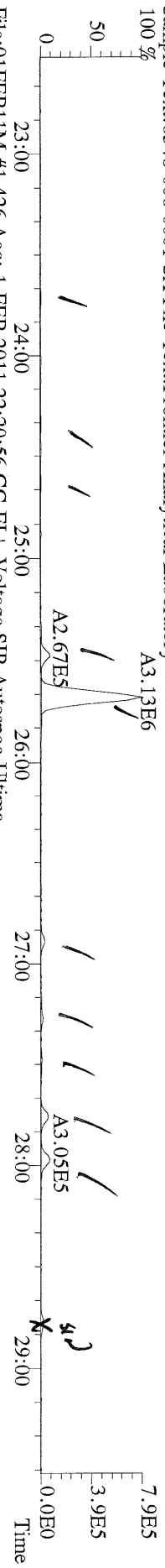
File:01FEB11M #1-348 Acq: 1-FEB-2011 22:20:56 GC EI + Voltage SIR Autospec-Ultima
471.7750 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



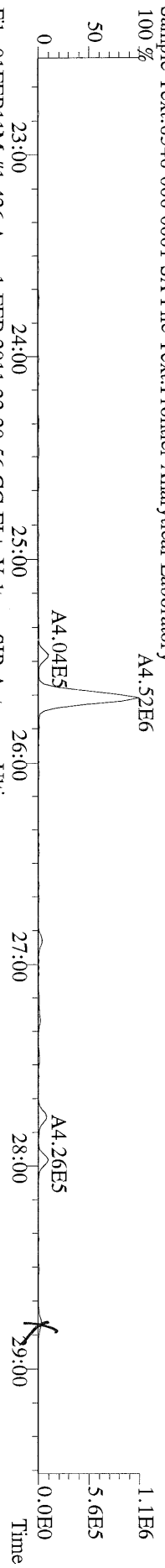
File:01FEB11M #1-348 Acq: 1-FEB-2011 22:20:56 GC EI + Voltage SIR Autospec-Ultima
454.9728 S:9 F:5 Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



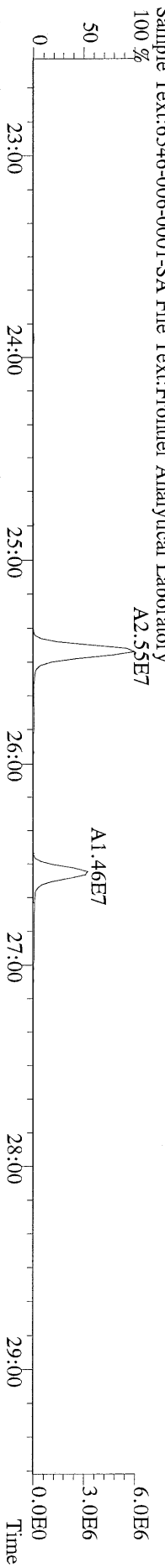
File:01FEB11M #1-426 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



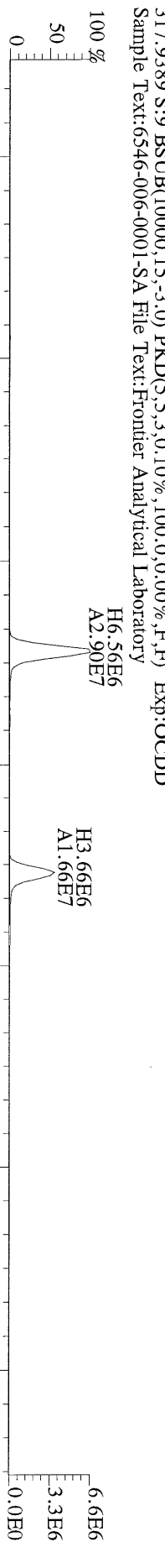
File:01FEB11M #1-426 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



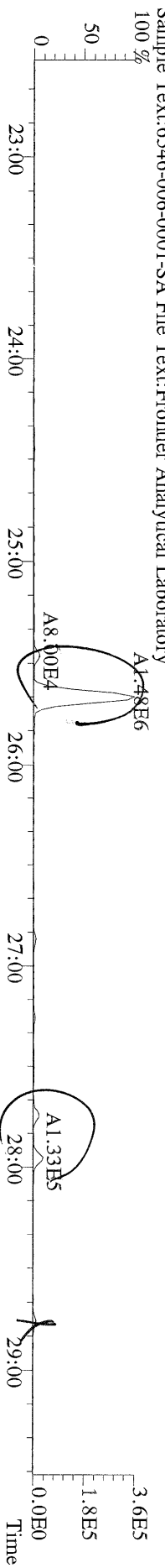
File:01FEB11M #1-426 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



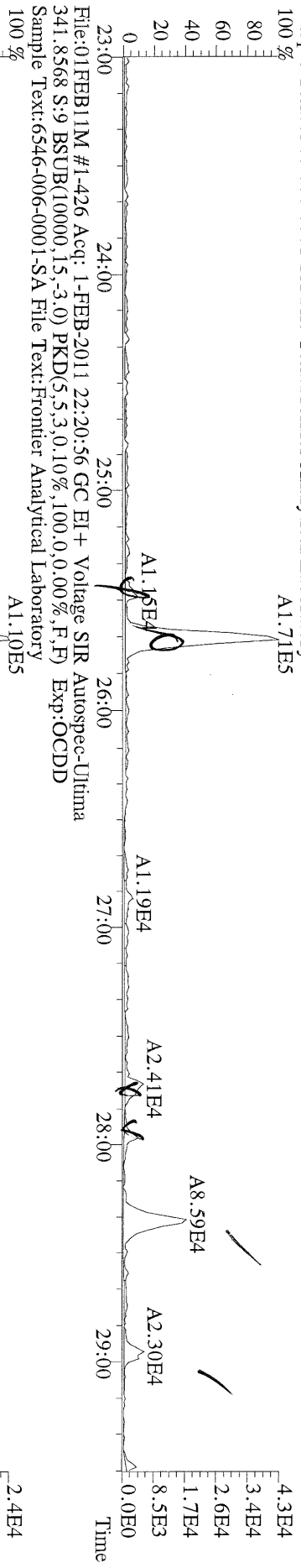
File:01FEB11M #1-426 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



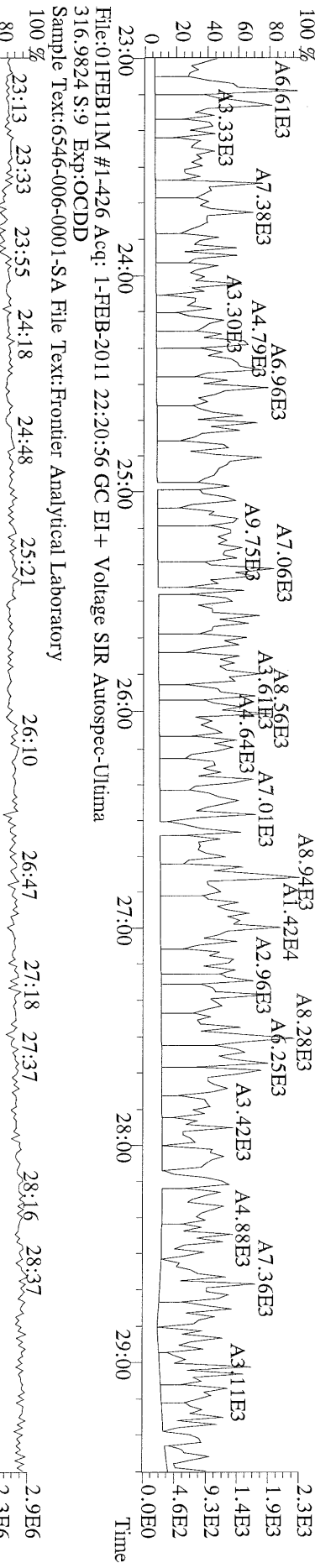
File:01FEB11M #1-426 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



File:01FEB11M #1-426 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



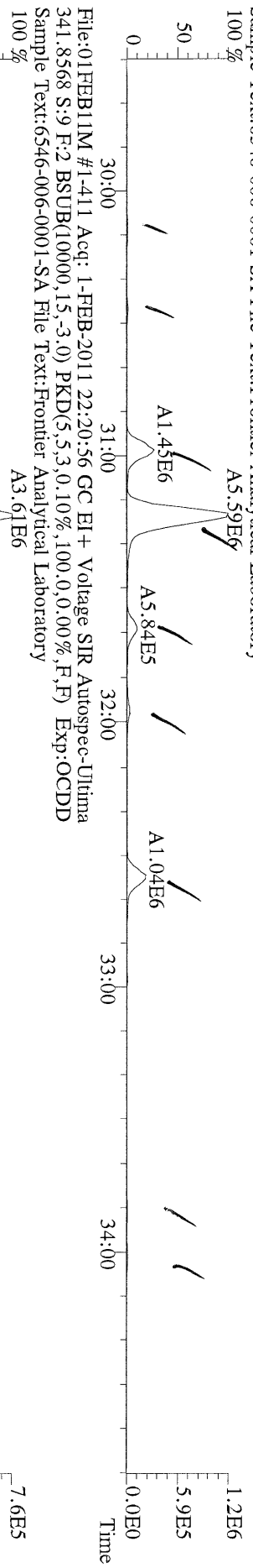
File:01FEB11M #1-426 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



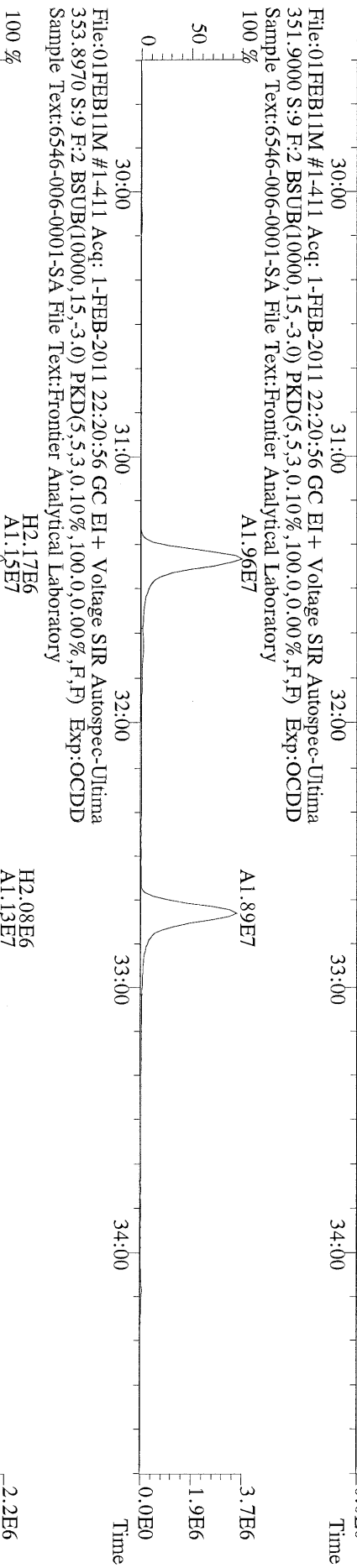
File:01FEB11M #1-426 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Ultima
 316.9824 S:9 Exp:OCDD
 Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



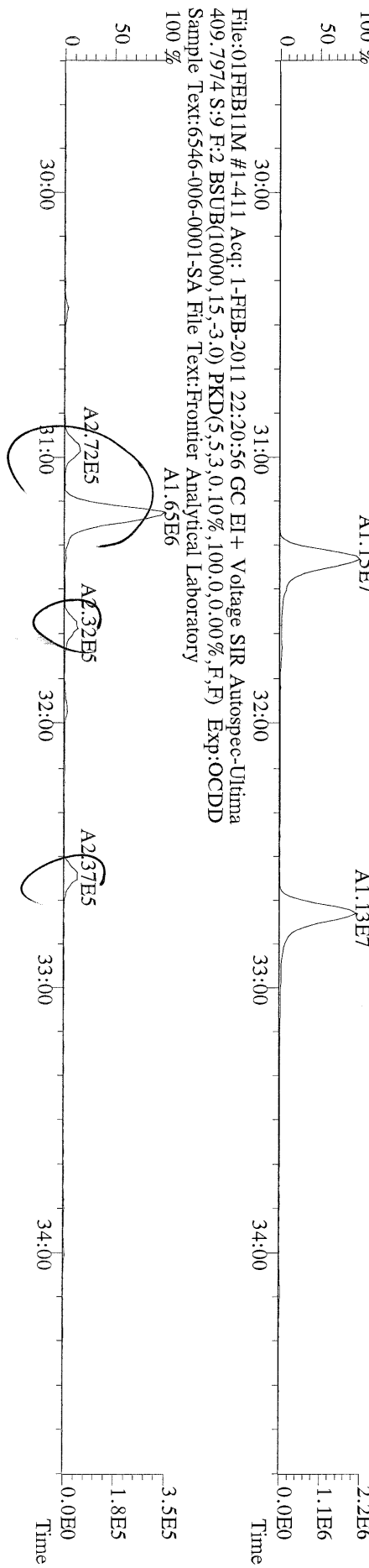
File:01FEB11M #1-411 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



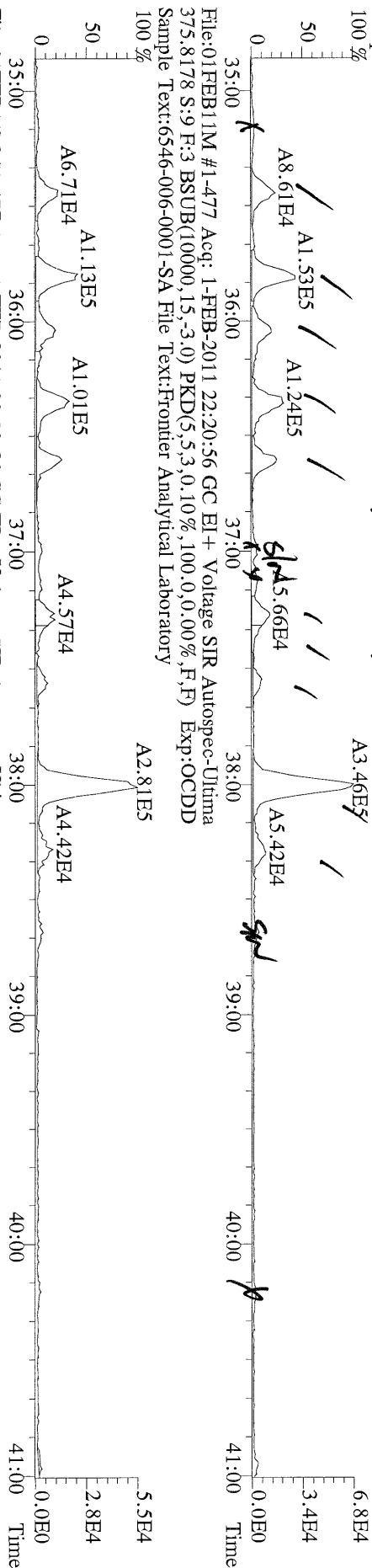
File:01FEB11M #1-411 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



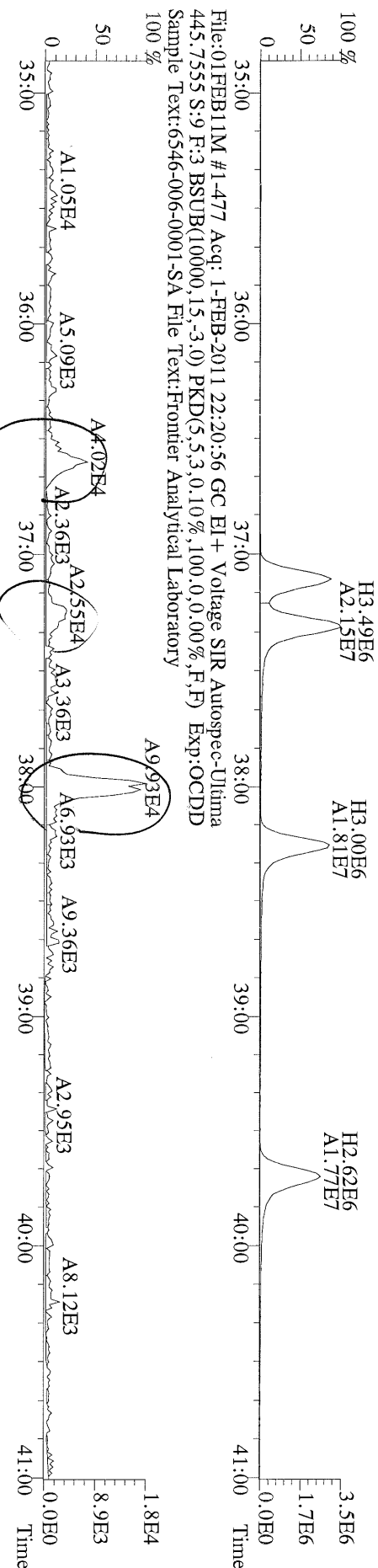
File:01FEB11M #1-411 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



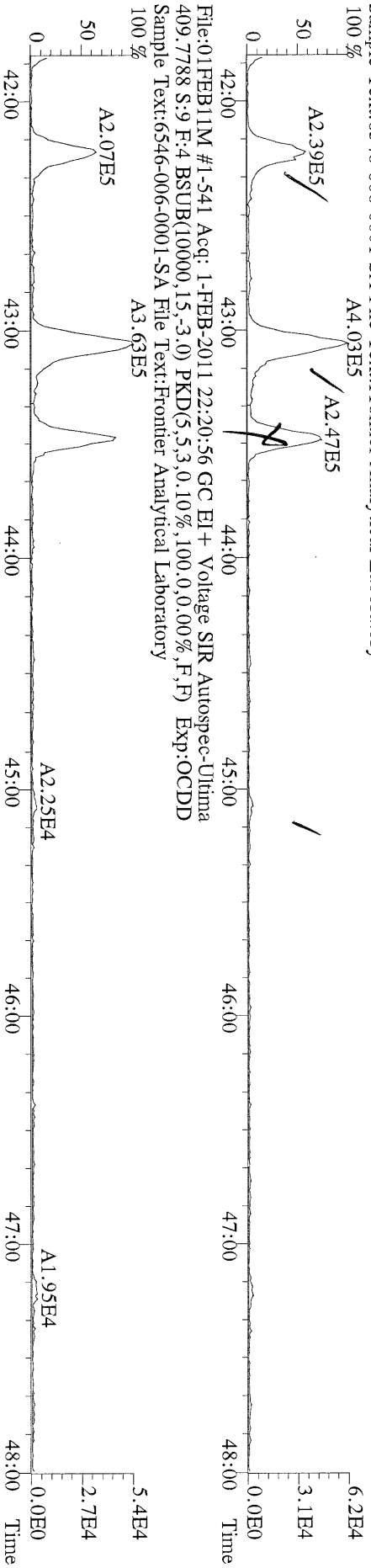
File:01FEB11M #1-477 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



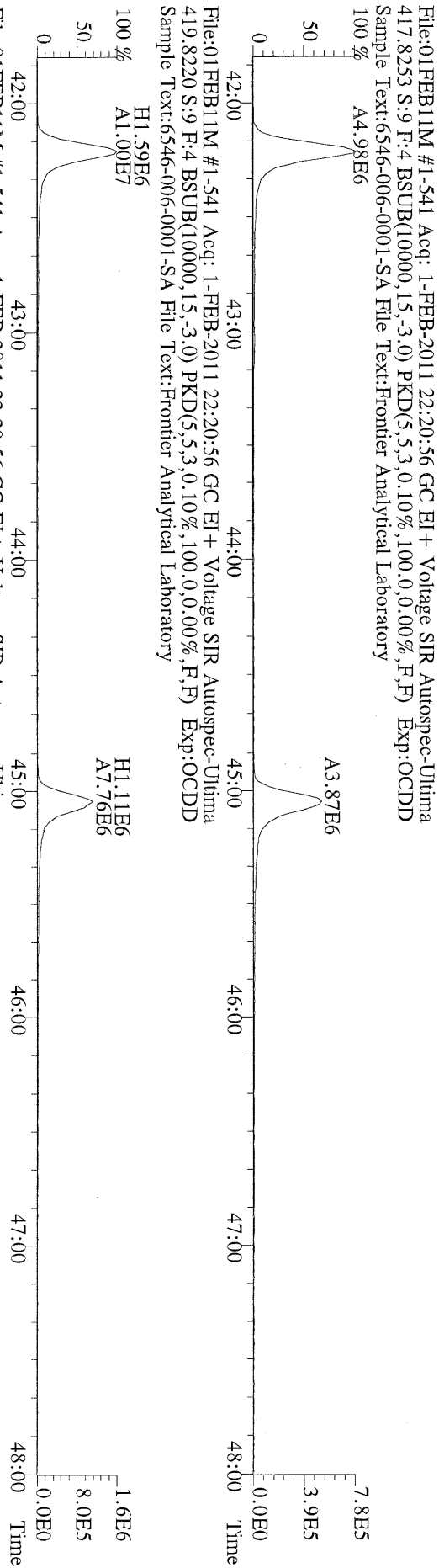
File:01FEB11M #1-477 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



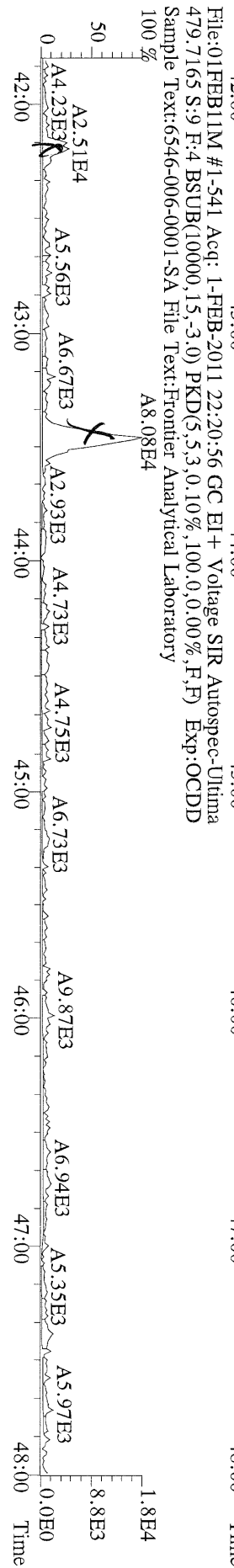
File:01FEB11M #1-541 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



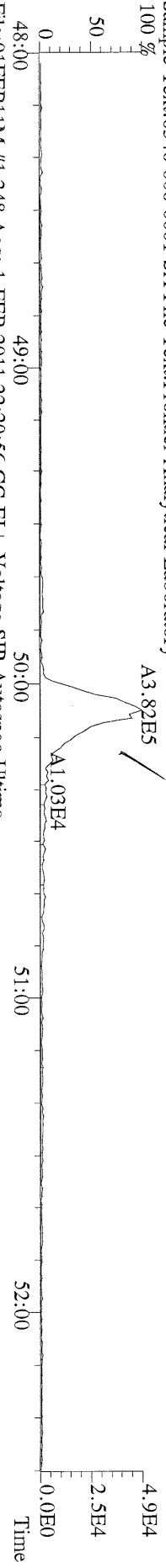
File:01FEB11M #1-541 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



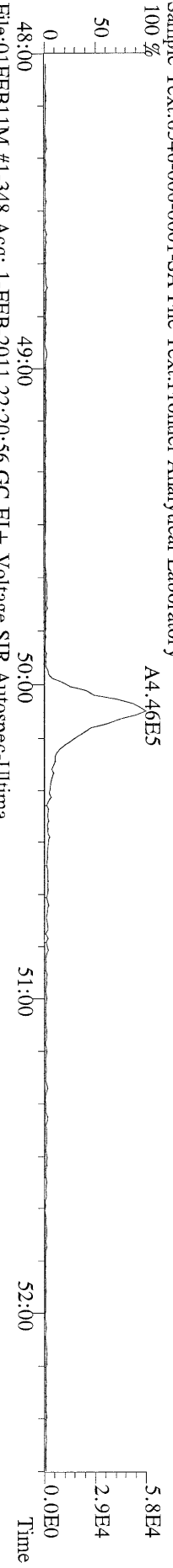
File:01FEB11M #1-541 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



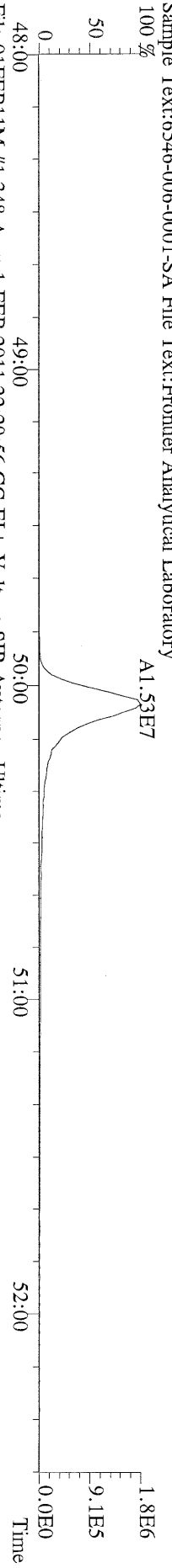
File:01FEB11M #1-348 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory
100%



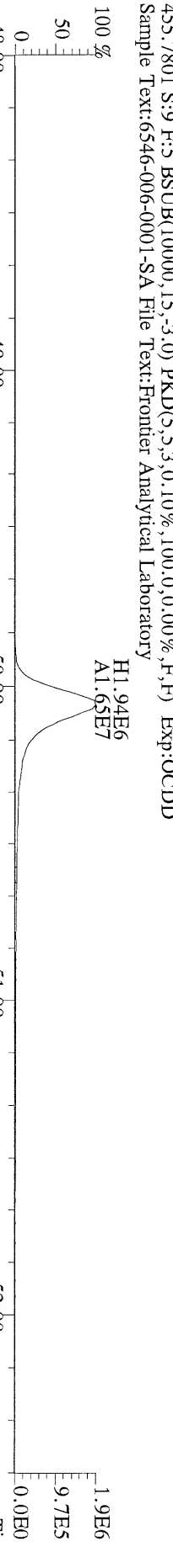
File:01FEB11M #1-348 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory
100%



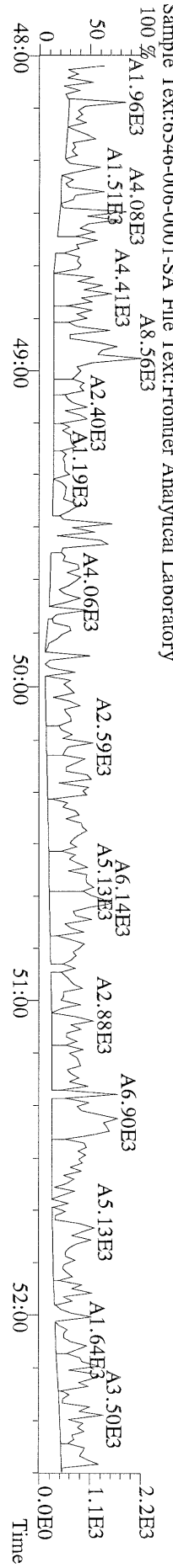
File:01FEB11M #1-348 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory
100%



File:01FEB11M #1-348 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory



File:01FEB11M #1-348 Acq: 1-FEB-2011 22:20:56 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:6546-006-0001-SA File Text:Frontier Analytical Laboratory
100%



Frontier Analytical Laboratory

Data Filename: 23AUG10M

Analyte:

Cal: PCDDFAL3-8-23-10

Name	RRF	S. D.	%RSD	S3 RRF#1	S4 RRF#2	S5 RRF#3	S1 RRF#4	S6 RRF#5	S7 RRF#6
2,3,7,8-TCDD	1.11	0.0404	3.63 %	1.07	1.09	1.06	1.16	1.13	1.14
1,2,3,7,8-PeCDD	1.10	0.0456	4.14 %	1.03	1.08	1.09	1.11	1.15	1.15
1,2,3,4,7,8-HxCDD	1.37	0.0589	4.29 %	1.40	1.30	1.31	1.36	1.44	1.42
1,2,3,6,7,8-HxCDD	1.37	0.0522	3.80 %	1.30	1.38	1.39	1.32	1.43	1.42
1,2,3,7,8,9-HxCDD	1.36	0.0713	5.24 %	1.29	1.31	1.37	1.30	1.45	1.45
1,2,3,4,6,7,8-HpCDD	1.45	0.0199	1.37 %	1.43	1.47	1.45	1.44	1.45	1.48
OCDD	1.43	0.0834	5.81 %	1.37	1.37	1.42	1.44	1.42	1.59
2,3,7,8-TCDF	1.50	0.0738	4.91 %	1.57	1.60	1.50	1.40	1.47	1.48
1,2,3,7,8-PeCDF	0.94	0.0427	4.53 %	0.92	0.88	0.92	0.96	0.99	0.99
2,3,4,7,8-PeCDF	0.94	0.0501	5.35 %	0.88	0.90	0.91	0.93	0.99	1.00
1,2,3,4,7,8-HxCDF	0.93	0.0529	5.70 %	0.90	0.88	0.90	0.91	0.99	1.00
1,2,3,6,7,8-HxCDF	0.82	0.0486	5.91 %	0.75	0.79	0.82	0.83	0.87	0.88
2,3,4,6,7,8-HxCDF	0.92	0.0553	6.02 %	0.87	0.86	0.92	0.89	0.98	0.99
1,2,3,7,8,9-HxCDF	1.00	0.0728	7.30 %	0.90	0.94	0.99	1.00	1.08	1.08
1,2,3,4,6,7,8-HpCDF	1.39	0.0804	5.78 %	1.28	1.33	1.37	1.39	1.49	1.47
1,2,3,4,7,8,9-HpCDF	1.36	0.108	7.94 %	1.30	1.20	1.33	1.35	1.45	1.50
OCDF	0.79	0.0651	8.29 %	0.73	0.72	0.75	0.79	0.86	0.87
13C-2,3,7,8-TCDD	1.02	0.0764	7.46 %	0.98	0.98	0.97	0.98	1.15	1.08
13C-1,2,3,7,8-PeCDD	0.84	0.0798	9.48 %	0.79	0.79	0.79	0.79	0.95	0.93
13C-1,2,3,4,7,8-HxCDD	1.07	0.0580	5.40 %	1.06	1.03	1.06	1.01	1.12	1.16
13C-1,2,3,6,7,8-HxCDD	1.01	0.0164	1.62 %	1.00	1.00	1.00	1.02	1.03	1.03
13C-1,2,3,4,6,7,8-HpCDD	0.86	0.0467	5.45 %	0.82	0.82	0.84	0.83	0.90	0.93
13C-OCDD	0.55	0.0456	8.36 %	0.52	0.51	0.52	0.52	0.58	0.63
13C-2,3,7,8-TCDF	0.99	0.0775	7.79 %	0.97	0.92	0.93	0.96	1.12	1.05
13C-1,2,3,7,8-PeCDF	0.84	0.0816	9.74 %	0.78	0.78	0.79	0.79	0.95	0.93
13C-2,3,4,7,8-PeCDF	0.81	0.0728	8.97 %	0.77	0.75	0.76	0.78	0.91	0.90
13C-1,2,3,4,7,8-HxCDF	1.85	0.0371	2.00 %	1.82	1.85	1.85	1.81	1.91	1.88
13C-1,2,3,6,7,8-HxCDF	2.54	0.0434	1.71 %	2.55	2.51	2.52	2.51	2.62	2.51
13C-2,3,4,6,7,8-HxCDF	2.01	0.0361	1.79 %	2.00	2.00	1.98	2.00	2.08	2.03
13C-1,2,3,7,8,9-HxCDF	2.03	0.110	5.42 %	1.97	1.94	1.96	1.98	2.14	2.20
13C-1,2,3,4,6,7,8-HpCDF	1.11	0.0532	4.80 %	1.08	1.05	1.12	1.07	1.16	1.18
13C-1,2,3,4,7,8,9-HpCDF	0.80	0.0576	7.16 %	0.78	0.76	0.78	0.77	0.83	0.91
13C-OCDF	1.08	0.0934	8.63 %	1.00	1.00	1.05	1.05	1.16	1.23
37Cl-2,3,7,8-TCDD	0.69	0.0526	7.67 %	0.67	0.70	0.63	0.63	0.76	0.73
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-	-
13C-1,2,3,4-TCDF	-	-	- %	-	-	-	-	-	-
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-	-
Total Tetra-Dioxins	1.11	0.0404	3.63 %	1.07	1.09	1.06	1.16	1.13	1.14
Total Penta-Dioxins	1.10	0.0456	4.14 %	1.03	1.08	1.09	1.11	1.15	1.15
Total Hexa-Dioxins	1.37	0.0513	3.75 %	1.33	1.33	1.36	1.33	1.44	1.43
Total Hepta-Dioxins	1.45	0.0199	1.37 %	1.43	1.47	1.45	1.44	1.45	1.48
Total Tetra-Furans	1.50	0.0738	4.91 %	1.57	1.60	1.50	1.40	1.47	1.48
1st Fn. Tot Penta-Furans	0.94	0.0454	4.83 %	0.90	0.89	0.91	0.95	0.99	0.99
Total Penta-Furans	0.94	0.0454	4.83 %	0.90	0.89	0.91	0.95	0.99	0.99
Total Hexa-Furans	0.91	0.0562	6.18 %	0.84	0.86	0.90	0.90	0.97	0.98
Total Hepta-Furans	1.38	0.0885	6.43 %	1.29	1.28	1.36	1.37	1.47	1.48

Analyst: Date: 8/24/10

Run #1 Filename 23AUG10M
Client ID: ST082310M0

S: 3 Acquired: 23-AUG-10 16:16:35 Cal: PCDDFAL3-8-23-10
Analyte: FAL ID: 1613 CS0 100511G

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk 2,3,7,8-TCDD	0.25	1.20e+05	0.73 y	27:27	-	1.07 y
2	Unk 1,2,3,7,8-PeCDD	1.25	4.64e+05	1.70 y	33:15	-	1.03 y
3	Unk 1,2,3,4,7,8-HxCDD	1.25	4.89e+05	1.42 y	38:38	-	1.40 y
4	Unk 1,2,3,6,7,8-HxCDD	1.25	4.28e+05	1.40 y	38:48	-	1.30 y
5	Unk 1,2,3,7,8,9-HxCDD	1.25	4.38e+05	1.41 y	39:14	-	1.29 y
6	Unk 1,2,3,4,6,7,8-HpCDD	1.25	3.88e+05	1.02 y	44:13	-	1.43 y
7	Unk OCDD	2.50	4.72e+05	1.00 y	49:47	-	1.37 y
8	Unk 2,3,7,8-TCDF	0.25	2.81e+05	0.67 y	26:41	-	1.57 y
9	Unk 1,2,3,7,8-PeCDF	1.25	6.57e+05	1.49 y	31:31	-	0.916 y
10	Unk 2,3,4,7,8-PeCDF	1.25	6.24e+05	1.48 y	32:50	-	0.883 y
11	Unk 1,2,3,4,7,8-HxCDF	1.25	5.37e+05	1.22 y	37:14	-	0.897 y
12	Unk 1,2,3,6,7,8-HxCDF	1.25	6.28e+05	1.31 y	37:25	-	0.747 y
13	Unk 2,3,4,6,7,8-HxCDF	1.25	5.72e+05	1.25 y	38:22	-	0.870 y
14	Unk 1,2,3,7,8,9-HxCDF	1.25	5.81e+05	1.15 y	39:48	-	0.897 y
15	Unk 1,2,3,4,6,7,8-HpCDF	1.25	4.57e+05	1.04 y	42:19	-	1.28 y
16	Unk 1,2,3,4,7,8,9-HpCDF	1.25	3.34e+05	0.99 y	45:09	-	1.30 y
17	Unk OCDF	2.50	4.80e+05	0.93 y	50:10	-	0.727 y
18	IS/RT 13C-2,3,7,8-TCDD	100.00	4.47e+07	0.85 y	27:24	-	0.976 y
19	IS 13C-1,2,3,7,8-PeCDD	100.00	3.60e+07	1.77 y	33:14	-	0.786 y
20	IS 13C-1,2,3,4,7,8-HxCDD	100.00	2.78e+07	1.26 y	38:36	-	1.06 y
21	IS 13C-1,2,3,6,7,8-HxCDD	100.00	2.63e+07	1.26 y	38:46	-	0.998 y
22	IS 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.17e+07	1.00 y	44:13	-	0.825 y
23	IS 13C-OCDD	200.00	2.76e+07	1.00 y	49:46	-	0.523 y
24	IS 13C-2,3,7,8-TCDF	100.00	7.17e+07	0.88 y	26:40	-	0.975 y
25	IS 13C-1,2,3,7,8-PeCDF	100.00	5.74e+07	1.74 y	31:30	-	0.780 y
26	IS 13C-2,3,4,7,8-PeCDF	100.00	5.65e+07	1.74 y	32:49	-	0.769 y
27	IS 13C-1,2,3,4,7,8-HxCDF	100.00	4.79e+07	0.55 y	37:12	-	1.82 y
28	IS 13C-1,2,3,6,7,8-HxCDF	100.00	6.72e+07	0.56 y	37:24	-	2.55 y
29	IS 13C-2,3,4,6,7,8-HxCDF	100.00	5.26e+07	0.58 y	38:20	-	2.00 y
30	IS 13C-1,2,3,7,8,9-HxCDF	100.00	5.18e+07	0.54 y	39:47	-	1.97 y
31	IS 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.84e+07	0.42 y	42:18	-	1.08 y
32	IS 13C-1,2,3,4,7,8,9-HpCDF	100.00	2.05e+07	0.43 y	45:08	-	0.778 y
33	IS 13C-OCDF	200.00	5.28e+07	0.95 y	50:09	-	1.00 y
34	C/Up 37Cl-2,3,7,8-TCDD	0.25	7.69e+04		27:26	-	0.671 y
35	RS 13C-1,2,3,4-TCDD	100.00	4.58e+07	0.85 y	26:50	4.58e+05	- n
36	RS 13C-1,2,3,4-TCDF	100.00	7.35e+07	0.87 y	25:35	7.35e+05	- n
37	RS/RT 13C-1,2,3,7,8,9-HxCDD	100.00	2.64e+07	1.27 y	39:12	2.64e+05	- n
38	Tot Total Tetra-Dioxins	0.00	-	- n	-	-	1.07 y
39	Tot Total Penta-Dioxins	0.00	-	- n	-	-	1.03 y
40	Tot Total Hexa-Dioxins	0.00	-	- n	-	-	1.33 y
41	Tot Total Hepta-Dioxins	0.00	-	- n	-	-	1.43 y
42	Tot Total Tetra-Furans	0.00	-	- n	-	-	1.57 y
43	Tot 1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.899 y
44	Tot Total Penta-Furans	0.00	-	- n	-	-	0.899 y
45	Tot Total Hexa-Furans	0.00	-	- n	-	-	0.845 y
46	Tot Total Hepta-Furans	0.00	-	- n	-	-	1.29 y

Analyst: 

Date: 8/24/10

Run #2 Filename 23AUG10M
Client ID: ST082310M1

S: 4 Acquired: 23-AUG-10 17:12:02 Cal: PCDDFAL3-8-23-10
Analyte: FAL ID: 1613 CS1 100511H

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk 2,3,7,8-TCDD	0.50	2.50e+05	0.74 y	27:27	-	1.09 y
2	Unk 1,2,3,7,8-PeCDD	2.50	9.93e+05	1.61 y	33:16	-	1.08 y
3	Unk 1,2,3,4,7,8-HxCDD	2.50	8.89e+05	1.42 y	38:37	-	1.30 y
4	Unk 1,2,3,6,7,8-HxCDD	2.50	9.16e+05	1.42 y	38:48	-	1.38 y
5	Unk 1,2,3,7,8,9-HxCDD	2.50	8.82e+05	1.39 y	39:14	-	1.31 y
6	Unk 1,2,3,4,6,7,8-HpCDD	2.50	8.00e+05	1.07 y	44:14	-	1.47 y
7	Unk OCDD	5.00	9.24e+05	0.99 y	49:48	-	1.37 y
8	Unk 2,3,7,8-TCDF	0.50	5.65e+05	0.69 y	26:41	-	1.60 y
9	Unk 1,2,3,7,8-PeCDF	2.50	1.31e+06	1.45 y	31:32	-	0.885 y
10	Unk 2,3,4,7,8-PeCDF	2.50	1.29e+06	1.43 y	32:51	-	0.896 y
11	Unk 1,2,3,4,7,8-HxCDF	2.50	1.08e+06	1.27 y	37:14	-	0.877 y
12	Unk 1,2,3,6,7,8-HxCDF	2.50	1.32e+06	1.22 y	37:26	-	0.790 y
13	Unk 2,3,4,6,7,8-HxCDF	2.50	1.14e+06	1.31 y	38:23	-	0.858 y
14	Unk 1,2,3,7,8,9-HxCDF	2.50	1.21e+06	1.23 y	39:48	-	0.938 y
15	Unk 1,2,3,4,6,7,8-HpCDF	2.50	9.30e+05	1.05 y	42:20	-	1.33 y
16	Unk 1,2,3,4,7,8,9-HpCDF	2.50	6.04e+05	1.06 y	45:09	-	1.20 y
17	Unk OCDF	5.00	9.66e+05	0.89 y	50:10	-	0.721 y
18	IS/RT 13C-2,3,7,8-TCDD	100.00	4.56e+07	0.84 y	27:25	-	0.980 y
19	IS 13C-1,2,3,7,8-PeCDD	100.00	3.68e+07	1.77 y	33:14	-	0.790 y
20	IS 13C-1,2,3,4,7,8-HxCDD	100.00	2.74e+07	1.32 y	38:36	-	1.03 y
21	IS 13C-1,2,3,6,7,8-HxCDD	100.00	2.66e+07	1.22 y	38:46	-	0.996 y
22	IS 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.18e+07	1.02 y	44:13	-	0.818 y
23	IS 13C-OCDD	200.00	2.71e+07	0.99 y	49:47	-	0.507 y
24	IS 13C-2,3,7,8-TCDF	100.00	7.06e+07	0.86 y	26:40	-	0.923 y
25	IS 13C-1,2,3,7,8-PeCDF	100.00	5.94e+07	1.73 y	31:30	-	0.777 y
26	IS 13C-2,3,4,7,8-PeCDF	100.00	5.75e+07	1.68 y	32:49	-	0.752 y
27	IS 13C-1,2,3,4,7,8-HxCDF	100.00	4.93e+07	0.55 y	37:13	-	1.85 y
28	IS 13C-1,2,3,6,7,8-HxCDF	100.00	6.70e+07	0.55 y	37:24	-	2.51 y
29	IS 13C-2,3,4,6,7,8-HxCDF	100.00	5.33e+07	0.57 y	38:21	-	2.00 y
30	IS 13C-1,2,3,7,8,9-HxCDF	100.00	5.18e+07	0.55 y	39:48	-	1.94 y
31	IS 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.79e+07	0.44 y	42:18	-	1.05 y
32	IS 13C-1,2,3,4,7,8,9-HpCDF	100.00	2.02e+07	0.42 y	45:09	-	0.756 y
33	IS 13C-OCDF	200.00	5.36e+07	0.96 y	50:09	-	1.00 y
34	C/Up 37Cl-2,3,7,8-TCDD	0.50	1.62e+05		27:26	-	0.696 y
35	RS 13C-1,2,3,4-TCDD	100.00	4.66e+07	0.83 y	26:51	4.66e+05	- n
36	RS 13C-1,2,3,4-TCDF	100.00	7.65e+07	0.88 y	25:34	7.65e+05	- n
37	RS/RT 13C-1,2,3,7,8,9-HxCDD	100.00	2.67e+07	1.27 y	39:13	2.67e+05	- n
38	Tot Total Tetra-Dioxins	0.00	-	- n	-	-	1.09 y
39	Tot Total Penta-Dioxins	0.00	-	- n	-	-	1.08 y
40	Tot Total Hexa-Dioxins	0.00	-	- n	-	-	1.33 y
41	Tot Total Hepta-Dioxins	0.00	-	- n	-	-	1.47 y
42	Tot Total Tetra-Furans	0.00	-	- n	-	-	1.60 y
43	Tot 1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.890 y
44	Tot Total Penta-Furans	0.00	-	- n	-	-	0.890 y
45	Tot Total Hexa-Furans	0.00	-	- n	-	-	0.860 y
46	Tot Total Hepta-Furans	0.00	-	- n	-	-	1.28 y

Analyst: 

Date: 8/24/10

Run #3 Filename 23AUG10M
Client ID: ST082310M2

S: 5 Acquired: 23-AUG-10 18:07:23 Cal: PCDDFAL3-8-23-10
Analyte: FAL ID: 1613 CS2 100511I

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk 2,3,7,8-TCDD	2.00	9.56e+05	0.76 y	27:26	-	1.06 y
2	Unk 1,2,3,7,8-PeCDD	10.00	3.99e+06	1.62 y	33:15	-	1.09 y
3	Unk 1,2,3,4,7,8-HxCDD	10.00	3.69e+06	1.40 y	38:38	-	1.31 y
4	Unk 1,2,3,6,7,8-HxCDD	10.00	3.71e+06	1.40 y	38:47	-	1.39 y
5	Unk 1,2,3,7,8,9-HxCDD	10.00	3.75e+06	1.40 y	39:14	-	1.37 y
6	Unk 1,2,3,4,6,7,8-HpCDD	10.00	3.22e+06	1.04 y	44:14	-	1.45 y
7	Unk OCDD	20.00	3.97e+06	0.89 y	49:47	-	1.42 y
8	Unk 2,3,7,8-TCDF	2.00	2.12e+06	0.69 y	26:41	-	1.50 y
9	Unk 1,2,3,7,8-PeCDF	10.00	5.47e+06	1.50 y	31:32	-	0.916 y
10	Unk 2,3,4,7,8-PeCDF	10.00	5.23e+06	1.51 y	32:51	-	0.913 y
11	Unk 1,2,3,4,7,8-HxCDF	10.00	4.43e+06	1.30 y	37:14	-	0.900 y
12	Unk 1,2,3,6,7,8-HxCDF	10.00	5.48e+06	1.24 y	37:26	-	0.819 y
13	Unk 2,3,4,6,7,8-HxCDF	10.00	4.88e+06	1.33 y	38:22	-	0.924 y
14	Unk 1,2,3,7,8,9-HxCDF	10.00	5.17e+06	1.28 y	39:49	-	0.990 y
15	Unk 1,2,3,4,6,7,8-HpCDF	10.00	4.10e+06	1.03 y	42:19	-	1.37 y
16	Unk 1,2,3,4,7,8,9-HpCDF	10.00	2.76e+06	1.01 y	45:09	-	1.33 y
17	Unk OCDF	20.00	4.20e+06	0.92 y	50:11	-	0.753 y
18	IS/RT 13C-2,3,7,8-TCDD	100.00	4.51e+07	0.83 y	27:25	-	0.970 y
19	IS 13C-1,2,3,7,8-PeCDD	100.00	3.68e+07	1.77 y	33:14	-	0.792 y
20	IS 13C-1,2,3,4,7,8-HxCDD	100.00	2.81e+07	1.27 y	38:36	-	1.06 y
21	IS 13C-1,2,3,6,7,8-HxCDD	100.00	2.66e+07	1.28 y	38:46	-	1.00 y
22	IS 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.22e+07	1.02 y	44:13	-	0.835 y
23	IS 13C-OCDD	200.00	2.79e+07	0.95 y	49:47	-	0.524 y
24	IS 13C-2,3,7,8-TCDF	100.00	7.06e+07	0.88 y	26:40	-	0.935 y
25	IS 13C-1,2,3,7,8-PeCDF	100.00	5.98e+07	1.74 y	31:30	-	0.791 y
26	IS 13C-2,3,4,7,8-PeCDF	100.00	5.73e+07	1.71 y	32:50	-	0.759 y
27	IS 13C-1,2,3,4,7,8-HxCDF	100.00	4.92e+07	0.55 y	37:13	-	1.85 y
28	IS 13C-1,2,3,6,7,8-HxCDF	100.00	6.70e+07	0.55 y	37:25	-	2.52 y
29	IS 13C-2,3,4,6,7,8-HxCDF	100.00	5.28e+07	0.56 y	38:21	-	1.98 y
30	IS 13C-1,2,3,7,8,9-HxCDF	100.00	5.23e+07	0.56 y	39:47	-	1.96 y
31	IS 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.98e+07	0.43 y	42:18	-	1.12 y
32	IS 13C-1,2,3,4,7,8,9-HpCDF	100.00	2.07e+07	0.41 y	45:08	-	0.777 y
33	IS 13C-OCDF	200.00	5.58e+07	1.00 y	50:09	-	1.05 y
34	C/Up 37Cl-2,3,7,8-TCDD	2.00	5.87e+05		27:27	-	0.632 y
35	RS 13C-1,2,3,4-TCDD	100.00	4.65e+07	0.85 y	26:50	4.65e+05	- n
36	RS 13C-1,2,3,4-TCDF	100.00	7.56e+07	0.87 y	25:35	7.56e+05	- n
37	RS/RT 13C-1,2,3,7,8,9-HxCDD	100.00	2.66e+07	1.26 y	39:13	2.66e+05	- n
38	Tot Total Tetra-Dioxins	0.00	-	- n	-	-	1.06 y
39	Tot Total Penta-Dioxins	0.00	-	- n	-	-	1.09 y
40	Tot Total Hexa-Dioxins	0.00	-	- n	-	-	1.36 y
41	Tot Total Hepta-Dioxins	0.00	-	- n	-	-	1.45 y
42	Tot Total Tetra-Furans	0.00	-	- n	-	-	1.50 y
43	Tot 1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.914 y
44	Tot Total Penta-Furans	0.00	-	- n	-	-	0.914 y
45	Tot Total Hexa-Furans	0.00	-	- n	-	-	0.902 y
46	Tot Total Hepta-Furans	0.00	-	- n	-	-	1.36 y

Analyst: 

Date: 8/24/10

Run #5 Filename 23AUG10M
Client ID: ST082310M4

S: 6 Acquired: 23-AUG-10 19:02:46 Cal: PCDDFAL3-8-23-10
Analyte: FAL ID: 1613 CS4 100511K

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk 2,3,7,8-TCDD	40.00	2.29e+07	0.76 y	27:27	-	1.13 y
2	Unk 1,2,3,7,8-PeCDD	200.00	9.61e+07	1.62 y	33:16	-	1.15 y
3	Unk 1,2,3,4,7,8-HxCDD	200.00	9.66e+07	1.40 y	38:37	-	1.44 y
4	Unk 1,2,3,6,7,8-HxCDD	200.00	8.79e+07	1.41 y	38:47	-	1.43 y
5	Unk 1,2,3,7,8,9-HxCDD	200.00	9.29e+07	1.41 y	39:15	-	1.45 y
6	Unk 1,2,3,4,6,7,8-HpCDD	200.00	7.75e+07	1.03 y	44:14	-	1.45 y
7	Unk OCDD	400.00	9.77e+07	1.00 y	49:48	-	1.42 y
8	Unk 2,3,7,8-TCDF	40.00	4.55e+07	0.67 y	26:42	-	1.47 y
9	Unk 1,2,3,7,8-PeCDF	200.00	1.31e+08	1.55 y	31:31	-	0.991 y
10	Unk 2,3,4,7,8-PeCDF	200.00	1.25e+08	1.52 y	32:50	-	0.991 y
11	Unk 1,2,3,4,7,8-HxCDF	200.00	1.13e+08	1.27 y	37:14	-	0.995 y
12	Unk 1,2,3,6,7,8-HxCDF	200.00	1.35e+08	1.28 y	37:26	-	0.869 y
13	Unk 2,3,4,6,7,8-HxCDF	200.00	1.21e+08	1.26 y	38:23	-	0.979 y
14	Unk 1,2,3,7,8,9-HxCDF	200.00	1.38e+08	1.30 y	39:49	-	1.08 y
15	Unk 1,2,3,4,6,7,8-HpCDF	200.00	1.03e+08	1.03 y	42:19	-	1.49 y
16	Unk 1,2,3,4,7,8,9-HpCDF	200.00	7.19e+07	1.05 y	45:09	-	1.45 y
17	Unk OCDF	400.00	1.19e+08	0.92 y	50:11	-	0.860 y
18	IS/RT 13C-2,3,7,8-TCDD	100.00	5.05e+07	0.85 y	27:25	-	1.15 y
19	IS 13C-1,2,3,7,8-PeCDD	100.00	4.17e+07	1.76 y	33:14	-	0.955 y
20	IS 13C-1,2,3,4,7,8-HxCDD	100.00	3.35e+07	1.27 y	38:37	-	1.12 y
21	IS 13C-1,2,3,6,7,8-HxCDD	100.00	3.08e+07	1.28 y	38:46	-	1.03 y
22	IS 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.67e+07	1.01 y	44:13	-	0.896 y
23	IS 13C-OCDD	200.00	3.44e+07	0.94 y	49:47	-	0.578 y
24	IS 13C-2,3,7,8-TCDF	100.00	7.76e+07	0.88 y	26:41	-	1.12 y
25	IS 13C-1,2,3,7,8-PeCDF	100.00	6.59e+07	1.75 y	31:30	-	0.954 y
26	IS 13C-2,3,4,7,8-PeCDF	100.00	6.31e+07	1.73 y	32:49	-	0.913 y
27	IS 13C-1,2,3,4,7,8-HxCDF	100.00	5.67e+07	0.55 y	37:13	-	1.91 y
28	IS 13C-1,2,3,6,7,8-HxCDF	100.00	7.79e+07	0.55 y	37:25	-	2.62 y
29	IS 13C-2,3,4,6,7,8-HxCDF	100.00	6.19e+07	0.54 y	38:21	-	2.08 y
30	IS 13C-1,2,3,7,8,9-HxCDF	100.00	6.38e+07	0.54 y	39:48	-	2.14 y
31	IS 13C-1,2,3,4,6,7,8-HpCDF	100.00	3.44e+07	0.43 y	42:18	-	1.16 y
32	IS 13C-1,2,3,4,7,8,9-HpCDF	100.00	2.48e+07	0.43 y	45:08	-	0.832 y
33	IS 13C-OCDF	200.00	6.90e+07	0.99 y	50:09	-	1.16 y
34	C/Up 37Cl-2,3,7,8-TCDD	40.00	1.32e+07		27:27	-	0.757 y
35	RS 13C-1,2,3,4-TCDD	100.00	4.37e+07	0.85 y	26:50	4.37e+05	- n
36	RS 13C-1,2,3,4-TCDF	100.00	6.91e+07	0.87 y	25:35	6.91e+05	- n
37	RS/RT 13C-1,2,3,7,8,9-HxCDD	100.00	2.98e+07	1.25 y	39:13	2.98e+05	- n
38	Tot Total Tetra-Dioxins	0.00	-	- n	-	-	1.13 y
39	Tot Total Penta-Dioxins	0.00	-	- n	-	-	1.15 y
40	Tot Total Hexa-Dioxins	0.00	-	- n	-	-	1.44 y
41	Tot Total Hepta-Dioxins	0.00	-	- n	-	-	1.45 y
42	Tot Total Tetra-Furans	0.00	-	- n	-	-	1.47 y
43	Tot 1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.991 y
44	Tot Total Penta-Furans	0.00	-	- n	-	-	0.991 y
45	Tot Total Hexa-Furans	0.00	-	- n	-	-	0.974 y
46	Tot Total Hepta-Furans	0.00	-	- n	-	-	1.47 y


Analyst: 


Date: 8/24/10

Run #6 Filename 23AUG10M
Client ID: ST082310M5

S: 7 Acquired: 23-AUG-10 19:58:08 Cal: PCDDFAL3-8-23-10
Analyte: PCDDFAL3-8-23-10 FAL ID: 1613 CS5 100511L

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk 2,3,7,8-TCDD	200.00	1.06e+08	0.76 y	27:26	-	1.14 y
2	Unk 1,2,3,7,8-PeCDD	1000.00	4.58e+08	1.63 y	33:15	-	1.15 y
3	Unk 1,2,3,4,7,8-HxCDD	1000.00	4.92e+08	1.39 y	38:38	-	1.42 y
4	Unk 1,2,3,6,7,8-HxCDD	1000.00	4.34e+08	1.40 y	38:48	-	1.42 y
5	Unk 1,2,3,7,8,9-HxCDD	1000.00	4.72e+08	1.38 y	39:14	-	1.45 y
6	Unk 1,2,3,4,6,7,8-HpCDD	1000.00	4.12e+08	1.03 y	44:14	-	1.48 y
7	Unk OCDD	2000.00	5.93e+08	0.92 y	49:50	-	1.59 y
8	Unk 2,3,7,8-TCDF	200.00	2.14e+08	0.66 y	26:41	-	1.48 y
9	Unk 1,2,3,7,8-PeCDF	1000.00	6.33e+08	1.52 y	31:32	-	0.985 y
10	Unk 2,3,4,7,8-PeCDF	1000.00	6.21e+08	1.52 y	32:51	-	1.00 y
11	Unk 1,2,3,4,7,8-HxCDF	1000.00	5.58e+08	1.28 y	37:14	-	0.996 y
12	Unk 1,2,3,6,7,8-HxCDF	1000.00	6.54e+08	1.27 y	37:26	-	0.876 y
13	Unk 2,3,4,6,7,8-HxCDF	1000.00	5.98e+08	1.27 y	38:22	-	0.989 y
14	Unk 1,2,3,7,8,9-HxCDF	1000.00	7.04e+08	1.28 y	39:49	-	1.08 y
15	Unk 1,2,3,4,6,7,8-HpCDF	1000.00	5.19e+08	1.05 y	42:20	-	1.47 y
16	Unk 1,2,3,4,7,8,9-HpCDF	1000.00	4.06e+08	1.08 y	45:09	-	1.50 y
17	Unk OCDF	2000.00	6.38e+08	0.93 y	50:12	-	0.869 y
18	IS/RT 13C-2,3,7,8-TCDD	100.00	4.62e+07	0.84 y	27:25	-	1.08 y
19	IS 13C-1,2,3,7,8-PeCDD	100.00	4.00e+07	1.76 y	33:15	-	0.933 y
20	IS 13C-1,2,3,4,7,8-HxCDD	100.00	3.46e+07	1.27 y	38:37	-	1.16 y
21	IS 13C-1,2,3,6,7,8-HxCDD	100.00	3.07e+07	1.25 y	38:46	-	1.03 y
22	IS 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.78e+07	1.04 y	44:13	-	0.932 y
23	IS 13C-OCDD	200.00	3.72e+07	0.93 y	49:49	-	0.625 y
24	IS 13C-2,3,7,8-TCDF	100.00	7.26e+07	0.87 y	26:40	-	1.05 y
25	IS 13C-1,2,3,7,8-PeCDF	100.00	6.43e+07	1.73 y	31:30	-	0.931 y
26	IS 13C-2,3,4,7,8-PeCDF	100.00	6.19e+07	1.73 y	32:49	-	0.896 y
27	IS 13C-1,2,3,4,7,8-HxCDF	100.00	5.60e+07	0.55 y	37:13	-	1.88 y
28	IS 13C-1,2,3,6,7,8-HxCDF	100.00	7.47e+07	0.56 y	37:25	-	2.51 y
29	IS 13C-2,3,4,6,7,8-HxCDF	100.00	6.05e+07	0.56 y	38:21	-	2.03 y
30	IS 13C-1,2,3,7,8,9-HxCDF	100.00	6.55e+07	0.54 y	39:47	-	2.20 y
31	IS 13C-1,2,3,4,6,7,8-HpCDF	100.00	3.52e+07	0.44 y	42:18	-	1.18 y
32	IS 13C-1,2,3,4,7,8,9-HpCDF	100.00	2.71e+07	0.42 y	45:08	-	0.909 y
33	IS 13C-OCDF	200.00	7.35e+07	0.99 y	50:11	-	1.23 y
34	C/Up 37Cl-2,3,7,8-TCDD	200.00	6.26e+07		27:26	-	0.731 y
35	RS 13C-1,2,3,4-TCDD	100.00	4.28e+07	0.84 y	26:50	4.28e+05	- n
36	RS 13C-1,2,3,4-TCDF	100.00	6.91e+07	0.87 y	25:34	6.91e+05	- n
37	RS/RT 13C-1,2,3,7,8,9-HxCDD	100.00	2.98e+07	1.25 y	39:13	2.98e+05	- n
38	Tot Total Tetra-Dioxins	0.00	-	- n	-	-	1.14 y
39	Tot Total Penta-Dioxins	0.00	-	- n	-	-	1.15 y
40	Tot Total Hexa-Dioxins	0.00	-	- n	-	-	1.43 y
41	Tot Total Hepta-Dioxins	0.00	-	- n	-	-	1.48 y
42	Tot Total Tetra-Furans	0.00	-	- n	-	-	1.48 y
43	Tot 1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.994 y
44	Tot Total Penta-Furans	0.00	-	- n	-	-	0.994 y
45	Tot Total Hexa-Furans	0.00	-	- n	-	-	0.980 y
46	Tot Total Hepta-Furans	0.00	-	- n	-	-	1.48 y

Analyst: 

Date: 

USEPA - ITD

FORM 3A

PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/23/10

Instrument ID: FAL3 GC Column ID: db5

CS0 Data Filename: 23AUG10M S3 CS3 Data Filename: 23AUG10M S1

CS1 Data Filename: 23AUG10M S4 CS4 Data Filename: 23AUG10M S6

CS2 Data Filename: 23AUG10M S5 CS5 Data Filename: 23AUG10M S7

	RELATIVE RESPONSE (RR)						MEAN RR	Cv (%RSD)
	CS1	CS2	CS3	CS4	CS5	CS6		
NATIVE ANALYTES								
2,3,7,8-TCDD	1.07	1.09	1.06	1.16	1.13	1.14	1.11	3.63
1,2,3,7,8-PeCDD	1.03	1.08	1.09	1.11	1.15	1.15	1.10	4.14
1,2,3,4,7,8-HxCDD	1.40	1.30	1.31	1.36	1.44	1.42	1.37	4.29
1,2,3,6,7,8-HxCDD	1.30	1.38	1.39	1.32	1.43	1.42	1.37	3.80
1,2,3,7,8,9-HxCDD	1.29	1.31	1.37	1.30	1.45	1.45	1.36	5.24
1,2,3,4,6,7,8-HpCDD	1.43	1.47	1.45	1.44	1.45	1.48	1.45	1.37
OCDD	1.37	1.37	1.42	1.44	1.42	1.59	1.43	5.81
2,3,7,8-TCDF	1.57	1.60	1.50	1.40	1.47	1.48	1.50	4.91
1,2,3,7,8-PeCDF	0.92	0.88	0.92	0.96	0.99	0.99	0.94	4.53
2,3,4,7,8-PeCDF	0.88	0.90	0.91	0.93	0.99	1.00	0.94	5.35
1,2,3,4,7,8-HxCDF	0.90	0.88	0.90	0.91	0.99	1.00	0.93	5.70
1,2,3,6,7,8-HxCDF	0.75	0.79	0.82	0.83	0.87	0.88	0.82	5.91
2,3,4,6,7,8-HxCDF	0.87	0.86	0.92	0.89	0.98	0.99	0.92	6.02
1,2,3,7,8,9-HxCDF	0.90	0.94	0.99	1.00	1.08	1.08	1.00	7.30
1,2,3,4,6,7,8-HpCDF	1.28	1.33	1.37	1.39	1.49	1.47	1.39	5.78
1,2,3,4,7,8,9-HpCDF	1.30	1.20	1.33	1.35	1.45	1.50	1.36	7.94
OCDF	0.73	0.72	0.75	0.79	0.86	0.87	0.79	8.29

Analyst: Date: 8/24/10

USEPA - ITD

FORM 3B

PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 8/23/10

Instrument ID: FAL3

GC Column ID: db5

CS0 Data Filename: 23AUG10M S3 CS4 Data Filename: 23AUG10M S1

CS1 Data Filename: 23AUG10M S4 CS4 Data Filename: 23AUG10M S6

CS2 Data Filename: 23AUG10M S5 CS5 Data Filename: 23AUG10M S7

RELATIVE RESPONSE (RR)

MEAN
RR Cv
(%RSD)

LABELED COMPOUNDS	RELATIVE RESPONSE (RR)						MEAN RR	Cv (%RSD)
	CS1	CS2	CS3	CS4	CS5	CS6		
13C-2,3,7,8-TCDD	0.98	0.98	0.97	0.98	1.15	1.08	1.02	7.46
13C-1,2,3,7,8-PeCDD	0.79	0.79	0.79	0.79	0.95	0.93	0.84	9.48
13C-1,2,3,4,7,8-HxCDD	1.06	1.03	1.06	1.01	1.12	1.16	1.07	5.40
13C-1,2,3,6,7,8-HxCDD	1.00	1.00	1.00	1.02	1.03	1.03	1.01	1.62
13C-1,2,3,4,6,7,8-HpCDD	0.82	0.82	0.84	0.83	0.90	0.93	0.86	5.45
13C-OCDD	0.52	0.51	0.52	0.52	0.58	0.63	0.55	8.36
13C-2,3,7,8-TCDF	0.97	0.92	0.93	0.96	1.12	1.05	0.99	7.79
13C-1,2,3,7,8-PeCDF	0.78	0.78	0.79	0.79	0.95	0.93	0.84	9.74
13C-2,3,4,7,8-PeCDF	0.77	0.75	0.76	0.78	0.91	0.90	0.81	8.97
13C-1,2,3,4,7,8-HxCDF	1.82	1.85	1.85	1.81	1.91	1.88	1.85	2.00
13C-1,2,3,6,7,8-HxCDF	2.55	2.51	2.52	2.51	2.62	2.51	2.54	1.71
13C-2,3,4,6,7,8-HxCDF	2.00	2.00	1.98	2.00	2.08	2.03	2.01	1.79
13C-1,2,3,7,8,9-HxCDF	1.97	1.94	1.96	1.98	2.14	2.20	2.03	5.42
13C-1,2,3,4,6,7,8-HpCDF	1.08	1.05	1.12	1.07	1.16	1.18	1.11	4.80
13C-1,2,3,4,7,8,9-HpCDF	0.78	0.76	0.78	0.77	0.83	0.91	0.80	7.16
13C-OCDF	1.00	1.00	1.05	1.05	1.16	1.23	1.08	8.63
CLEANUP STANDARD								
37Cl-2,3,7,8-TCDD	0.67	0.70	0.63	0.63	0.76	0.73	0.69	7.67

Analyst: Date: 8/24/10

USEPA - ITD

FORM 3C

PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 8/23/10

Instrument ID: FAL3

GC Column ID: db5

CS0 Data Filename: 23AUG10M S3 CS3 Data Filename: 23AUG10M S1

CS1 Data Filename: 23AUG10M S4 CS4 Data Filename: 23AUG10M S6

CS2 Data Filename: 23AUG10M S5 CS5 Data Filename: 23AUG10M 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	0.73	0.74	0.76	0.73	0.76	0.76	0.65-0.89
1,2,3,7,8-PeCDD	M+2/M+4	1.70	1.61	1.62	1.64	1.62	1.63	1.32-1.78
1,2,3,4,7,8-HxCDD	M+2/M+4	1.42	1.42	1.40	1.41	1.40	1.39	1.05-1.43
1,2,3,6,7,8-HxCDD	M+2/M+4	1.40	1.42	1.40	1.39	1.41	1.40	1.05-1.43
1,2,3,7,8,9-HxCDD	M+2/M+4	1.41	1.39	1.40	1.41	1.41	1.38	1.05-1.43
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.02	1.07	1.04	1.04	1.03	1.03	0.88-1.20
OCDD	M+2/M+4	1.00	0.99	0.89	0.95	1.00	0.92	0.76-1.02
2,3,7,8-TCDF	M/M+2	0.67	0.69	0.69	0.67	0.67	0.66	0.65-0.89
1,2,3,7,8-PeCDF	M+2/M+4	1.49	1.45	1.50	1.53	1.55	1.52	1.32-1.78
2,3,4,7,8-PeCDF	M+2/M+4	1.48	1.43	1.51	1.52	1.52	1.52	1.32-1.78
1,2,3,4,7,8-HxCDF	M+2/M+4	1.22	1.27	1.30	1.29	1.27	1.28	1.05-1.43
1,2,3,6,7,8-HxCDF	M+2/M+4	1.31	1.22	1.24	1.26	1.28	1.27	1.05-1.43
2,3,4,6,7,8-HxCDF	M+2/M+4	1.25	1.31	1.33	1.24	1.26	1.27	1.05-1.43
1,2,3,7,8,9-HxCDF	M+2/M+4	1.15	1.23	1.28	1.28	1.30	1.28	1.05-1.43
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.04	1.05	1.03	1.04	1.03	1.05	0.88-1.20
1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.99	1.06	1.01	1.04	1.05	1.08	0.88-1.20
OCDF	M+2/M+4	0.93	0.89	0.92	0.93	0.92	0.93	0.76-1.02

Analyst: Date: 8/24/10

USEPA - ITD

FORM 3D

PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 8/23/10

Instrument ID: FAL3

GC Column ID: db5

CS0 Data Filename: 23AUG10M S3 CS3 Data Filename: 23AUG10M S1

CS1 Data Filename: 23AUG10M S4 CS4 Data Filename: 23AUG10M S6

CS2 Data Filename: 23AUG10M S5 CS5 Data Filename: 23AUG10M S7

Labeled Compounds	M/Z'S FORMING RATIO	ION ABUNDANCE RATIOS						QC LIMITS
		CS1	CS2	CS3	CS4	CS5	CS6	
13C-2,3,7,8-TCDD	M/M+2	0.85	0.84	0.83	0.86	0.85	0.84	0.65-0.89
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.77	1.77	1.77	1.77	1.76	1.76	1.32-1.78
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.26	1.32	1.27	1.26	1.27	1.27	1.05-1.43
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.22	1.28	1.27	1.28	1.25	1.05-1.43
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.00	1.02	1.02	1.04	1.01	1.04	0.88-1.20
13C-OCDD	M+2/M+4	1.00	0.99	0.95	0.93	0.94	0.93	0.76-1.02
13C-2,3,7,8-TCDF	M/M+2	0.88	0.86	0.88	0.86	0.88	0.87	0.65-0.89
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.74	1.73	1.74	1.78	1.75	1.73	1.32-1.78
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.74	1.68	1.71	1.74	1.73	1.73	1.32-1.78
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.55	0.55	0.55	0.56	0.55	0.55	0.43-0.59
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.56	0.55	0.55	0.55	0.55	0.56	0.43-0.59
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.58	0.57	0.56	0.54	0.54	0.56	0.43-0.59
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.54	0.55	0.56	0.55	0.54	0.54	0.43-0.59
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.42	0.44	0.43	0.42	0.43	0.44	0.37-0.51
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.43	0.42	0.41	0.42	0.43	0.42	0.37-0.51
13C-OCDF	M+2/M+4	0.95	0.96	1.00	0.98	0.99	0.99	0.76-1.02

Analyst: Date: 8/24/10

USEPA - ITD

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 8/23/10

Instrument ID: FAL3

GC Column ID: db5

VER Data Filename: 23AUG10M Sam:1

Analysis Date: 23-AUG-10 14:25:46

LABELED 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	0.86	0.65-0.89	y	95.9	82.0 - 121
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.77	1.32-1.78	y	94.2	62.0 - 160
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	94.5	85.0 - 117
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	100	85.0 - 118
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88-1.20	y	97.0	72.0 - 138
13C-OCDD	M+2/M+4	0.93	0.76-1.02	y	191	96.0 - 415
13C-2,3,7,8-TCDF	M/M+2	0.86	0.65-0.89	y	96.5	71.0 - 140
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.78	1.32-1.78	y	94.8	76.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.74	1.32-1.78	y	96.5	77.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.56	0.43-0.59	y	97.7	76.0 - 131
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.55	0.43-0.59	y	99.0	70.0 - 143
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.54	0.43-0.59	y	99.4	73.0 - 137
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.55	0.43-0.59	y	97.2	74.0 - 135
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.42	0.37-0.51	y	96.4	78.0 - 129
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.42	0.37-0.51	y	96.0	77.0 - 129
13C-OCDF	M+2/M+4	0.98	0.76-1.02	y	194	96.0 - 415
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					9.14	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: Date: 

USEPA - ITD

FORM 6A

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 8/23/10

Instrument ID: FAL3

GC Column ID: db5

Analysis Date: 23-AUG-10 14:25:46

CS3 or VER Data Filename: 23AUG10M

Sam:1

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT 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	1.022	0.989-1.052
13C-2,3,7,8-TCDD		1.021	0.976-1.043
13C-2,3,7,8-TCDF		0.993	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		1.223	0.923-1.303

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Analyst: Date: 8/24/10

USEPA - ITD

FORM 6B

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 8/23/10

Instrument ID: FAL3

GC Column ID: db5

Analysis Date: 23-AUG-10 14:25:46

CS3 or VER Data Filename: 23AUG10M

Sam:1

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.000	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.000	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	1.001	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.001	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	1.001	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	0.985	0.977-1.000
13C-1,2,3,6,7,8-HxCDD		0.989	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		1.128	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		1.270	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: Date: 8/24/10

FAL ID: ST082310M3 Filename: 23AUG10M Sam:1 Acquired: 23-AUG-10 14:25:46 ICal: PCDDFAL3-8-23-10
 Client ID: 1613 CS3 100511J ConCal: ST082310M3 EndCal: ST082310M6

Results:		GC Column: db5	Amount: 1.000	NATO 1989 Tox:	100	WHO 1998 Tox:	125	WHO 2005 Tox:	114	
Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	
2,3,7,8-TCDD	5.04e+06	0.73 y	27:24	1.11	10.4		2.50	-	*	
1,2,3,7,8-PeCDD	1.95e+07	1.64 y	33:14	1.10	50.6		2.50	-	*	
1,2,3,4,7,8-HxCDD	1.81e+07	1.41 y	38:36	1.37	49.6		2.50	-	*	
1,2,3,6,7,8-HxCDD	1.75e+07	1.39 y	38:46	1.37	48.0		2.50	-	*	
1,2,3,7,8,9-HxCDD	1.74e+07	1.41 y	39:13	1.36	47.9		2.50	-	*	
1,2,3,4,6,7,8-HpCDD	1.56e+07	1.04 y	44:13	1.45	49.5		2.50	-	*	
OCDD	1.96e+07	0.95 y	49:47	1.43	100		2.50	-	*	
2,3,7,8-TCDF	9.40e+06	0.67 y	26:39	1.50	9.30		2.50	-	*	
1,2,3,7,8-PeCDF	2.67e+07	1.53 y	31:30	0.94	50.9		2.50	-	*	
2,3,4,7,8-PeCDF	2.56e+07	1.52 y	32:49	0.94	49.8		2.50	-	*	
1,2,3,4,7,8-HxCDF	2.15e+07	1.29 y	37:12	0.93	48.8		2.50	-	*	
1,2,3,6,7,8-HxCDF	2.72e+07	1.26 y	37:24	0.82	50.3		2.50	-	*	
2,3,4,6,7,8-HxCDF	2.34e+07	1.24 y	38:21	0.92	48.5		2.50	-	*	
1,2,3,7,8,9-HxCDF	2.60e+07	1.28 y	39:47	1.00	50.3		2.50	-	*	
1,2,3,4,6,7,8-HpCDF	1.95e+07	1.04 y	42:18	1.39	49.9		2.50	-	*	
1,2,3,4,7,8,9-HpCDF	1.37e+07	1.04 y	45:08	1.36	49.8		2.50	-	*	
OCDF	2.16e+07	0.93 y	50:09	0.79	99.9		2.50	-	*	
									Rec	
13C-2,3,7,8-TCDD	4.35e+07	0.86 y	27:23	1.02	95.9				95.9	
13C-1,2,3,7,8-PeCDD	3.51e+07	1.77 y	33:13	0.84	94.2				94.2	
13C-1,2,3,4,7,8-HxCDD	2.66e+07	1.26 y	38:35	1.07	94.5				94.5	
13C-1,2,3,6,7,8-HxCDD	2.66e+07	1.27 y	38:45	1.01	100				100	
13C-1,2,3,4,6,7,8-HpCDD	2.18e+07	1.04 y	44:11	0.86	97.0				97.0	
13C-OCDD	2.73e+07	0.93 y	49:45	0.55	191				95.3	
13C-2,3,7,8-TCDF	6.73e+07	0.86 y	26:38	0.99	96.5				96.5	
13C-1,2,3,7,8-PeCDF	5.57e+07	1.78 y	31:28	0.84	94.8				94.8	
13C-2,3,4,7,8-PeCDF	5.49e+07	1.74 y	32:48	0.81	96.5				96.5	
13C-1,2,3,4,7,8-HxCDF	4.74e+07	0.56 y	37:11	1.85	97.7				97.7	
13C-1,2,3,6,7,8-HxCDF	6.58e+07	0.55 y	37:23	2.54	99.0				99.0	
13C-2,3,4,6,7,8-HxCDF	5.25e+07	0.54 y	38:19	2.01	99.4				99.4	
13C-1,2,3,7,8,9-HxCDF	5.18e+07	0.55 y	39:45	2.03	97.2				97.2	
13C-1,2,3,4,6,7,8-HpCDF	2.80e+07	0.42 y	42:17	1.11	96.4				96.4	
13C-1,2,3,4,7,8,9-HpCDF	2.02e+07	0.42 y	45:06	0.80	96.0				96.0	
13C-OCDF	5.49e+07	0.98 y	50:08	1.08	194				96.8	
37Cl-2,3,7,8-TCDD	2.77e+06		27:24	0.69	9.14				91.4	
13C-1,2,3,4-TCDD	4.42e+07	0.84 y	26:49	-	98.4					
13C-1,2,3,4-TCDF	7.01e+07	0.87 y	25:33	-	97.0					
13C-1,2,3,7,8,9-HxCDD	2.62e+07	1.28 y	39:11	-	95.1					
Total Tetra-Dioxins	2.58e+07		24:24	1.11	53.5		2.50	-	*	19
Total Penta-Dioxins	4.23e+07		30:15	1.10	109		2.50	-	*	7
Total Hexa-Dioxins	6.03e+07		36:08	1.37	165		2.50	-	*	11
Total Hepta-Dioxins	3.51e+07		42:49	1.45	111		2.50	-	*	20
Total Tetra-Furans	4.14e+07		23:04	1.50	41.0		2.50	-	*	9
1st Fn. Tot Penta-Furans	3.21e+07		28:25	0.94	61.7		2.50	-	*	PeCDF 1
Total Penta-Furans	7.50e+07		30:12	0.94	144		2.50	-	*	206 15
Total Hexa-Furans	1.14e+08		35:15	0.91	230		2.50	-	*	8
Total Hepta-Furans	3.43e+07		42:18	1.38	103		2.50	-	*	14

Analyst: 

Date: 8/24/10

Frontier Analytical Laboratory - Acquisition Log


Run Name:23AUG10M

Instrument: FAL3

GC: DB5

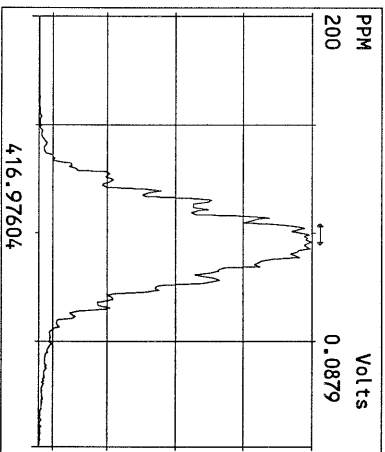
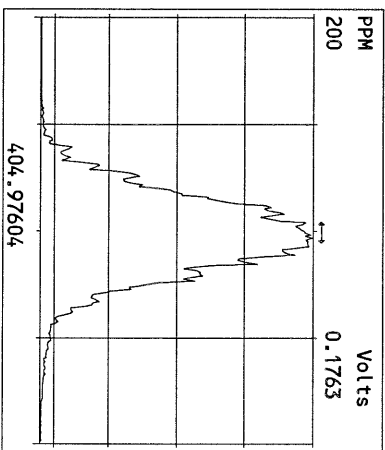
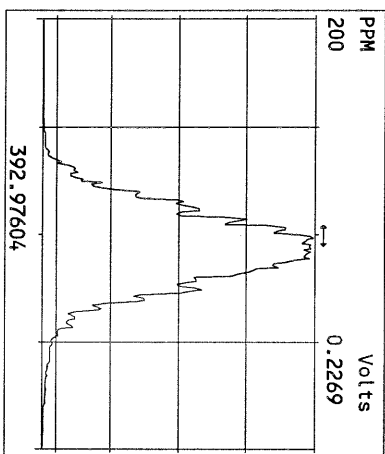
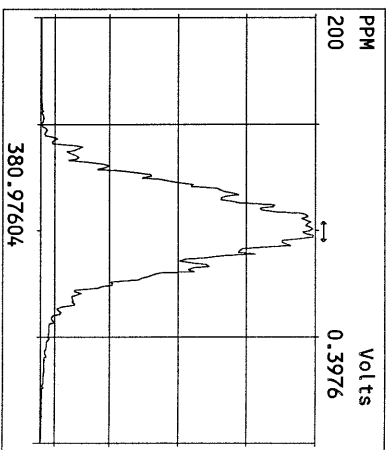
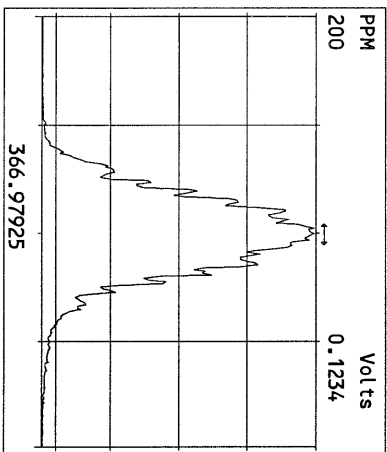
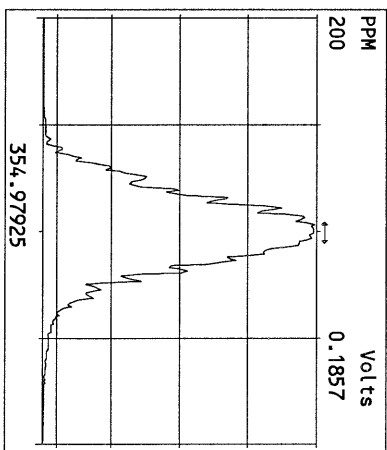
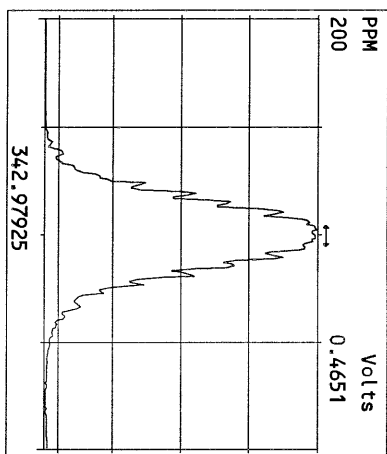
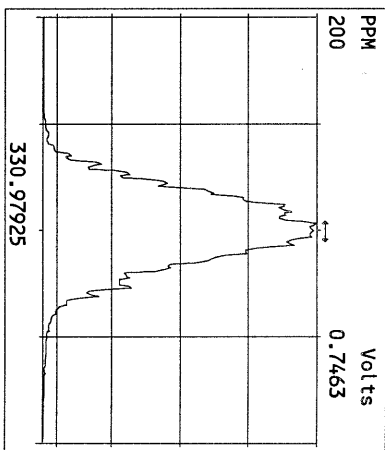
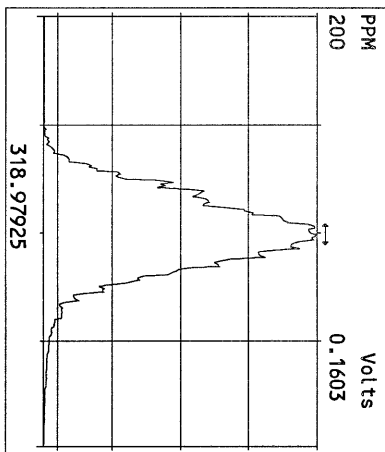
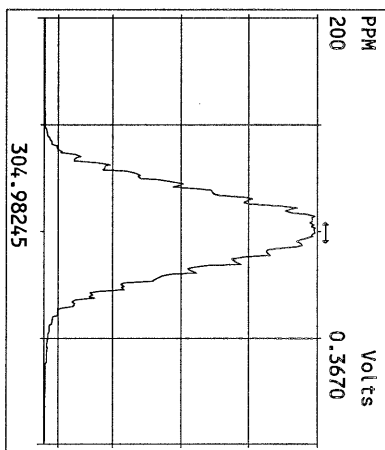
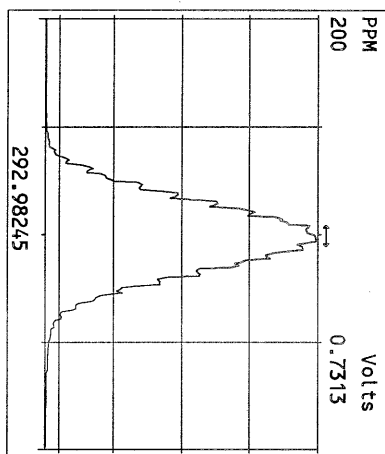
Experiment:PCDD

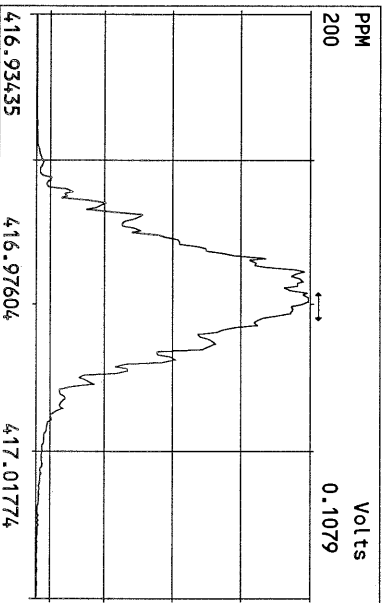
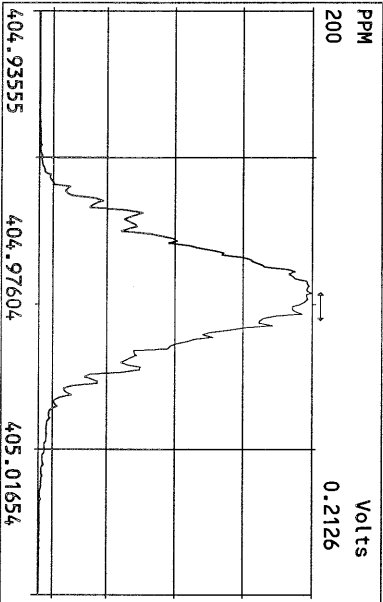
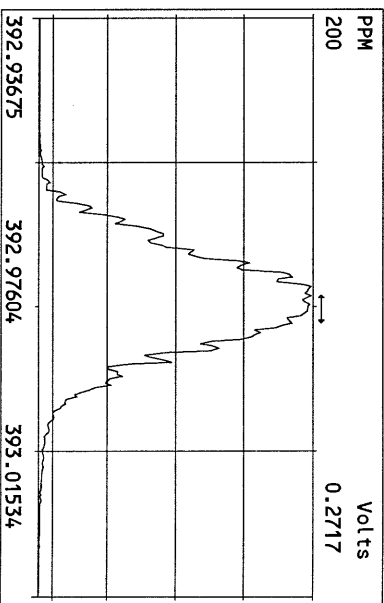
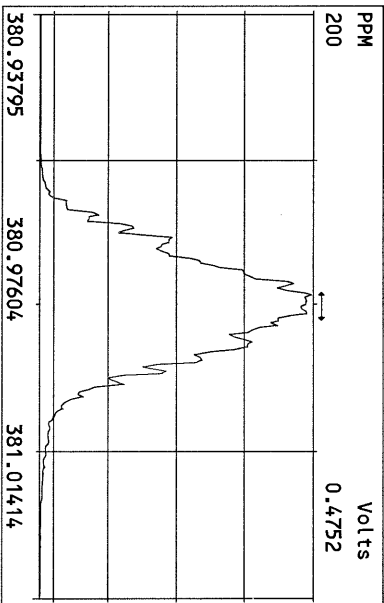
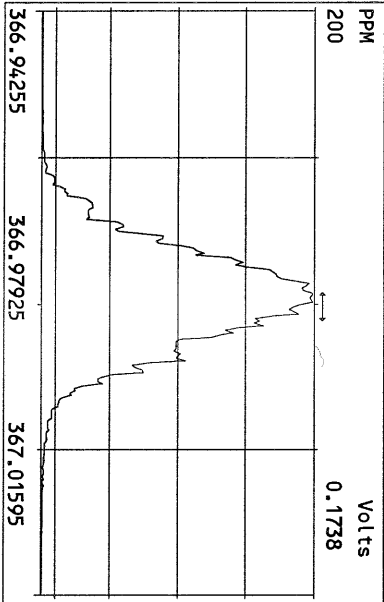
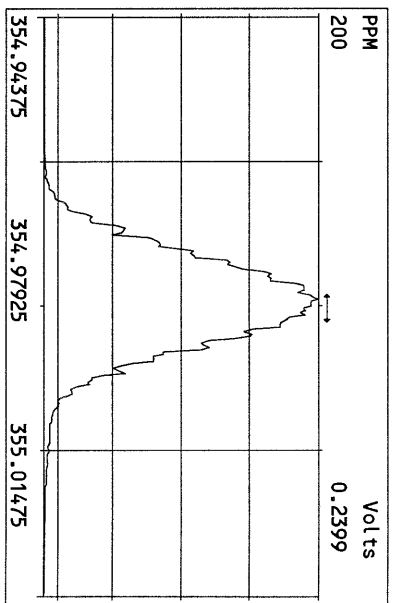
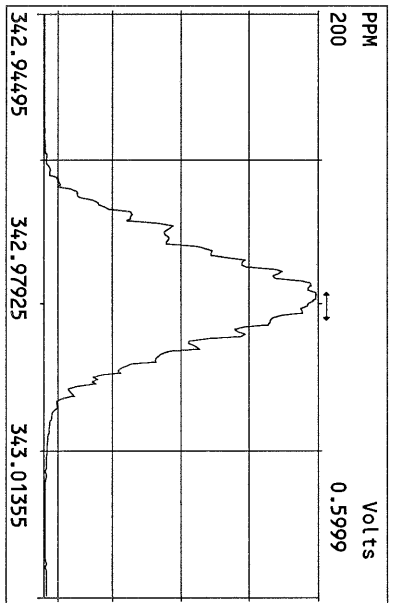
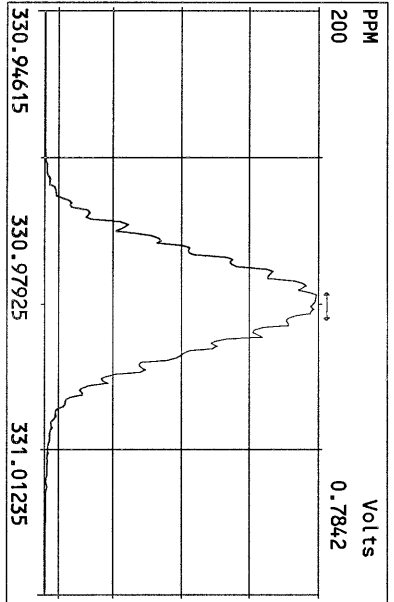
Data File S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
23AUG10M 1	ST082310M3	1613 CS3 100511J	23-AUG-10 14:25:46	ST082310M3	ST082310M6	BS
23AUG10M 2	ST082310M-1	1613 CS-1	23-AUG-10 15:21:08	NA	NA	BS
23AUG10M 3	ST082310M0	1613 CS0 100511G	23-AUG-10 16:16:35	NA	NA	BS
23AUG10M 4	ST082310M1	1613 CS1 100511H	23-AUG-10 17:12:02	NA	NA	BS
23AUG10M 5	ST082310M2	1613 CS2 100511I	23-AUG-10 18:07:23	NA	NA	BS
23AUG10M 6	ST082310M4	1613 CS4 100511K	23-AUG-10 19:02:46	NA	NA	BS
23AUG10M 7	ST082310M5	1613 CS5 100511L	23-AUG-10 19:58:08	NA	NA	BS
23AUG10M 8	SB082310M1	Solvent Blank	23-AUG-10 20:53:27	NA	NA	BS
23AUG10M 9	6114-001-0001-SA	LPTP10-S2	23-AUG-10 21:48:46	ST082310M3	ST082310M6	BS
23AUG10M 10	ST082310M6	1613 CS3 100511J	23-AUG-10 22:44:05	ST082310M3	ST082310M6	BS
23AUG10M 11	ST082310M7	8280 CS3 071227J	23-AUG-10 23:39:28	ST082310M7	ST082310M8	BS
23AUG10M 12	SB082310M2	Solvent Blank	24-AUG-10 00:34:46	ST082310M7	ST082310M8	BS
23AUG10M 13	2088-001-0001-MB	Method Blank	24-AUG-10 01:30:01	ST082310M7	ST082310M8	BS
23AUG10M 14	6263-001-0001-SA	MDL 1	24-AUG-10 02:25:23	ST082310M7	ST082310M8	BS
23AUG10M 15	6263-002-0001-SA	MDL 2	24-AUG-10 03:20:43	ST082310M7	ST082310M8	BS
23AUG10M 16	6263-003-0001-SA	MDL 3	24-AUG-10 04:16:04	ST082310M7	ST082310M8	BS
23AUG10M 17	6263-004-0001-SA	MDL 4	24-AUG-10 05:11:22	ST082310M7	ST082310M8	BS
23AUG10M 18	6263-005-0001-SA	MDL 5	24-AUG-10 06:06:41	ST082310M7	ST082310M8	BS
23AUG10M 19	6263-006-0001-SA	MDL 6	24-AUG-10 07:02:01	ST082310M7	ST082310M8	BS
23AUG10M 20	6263-007-0001-SA	MDL 7	24-AUG-10 07:57:23	ST082310M7	ST082310M8	BS
23AUG10M 21	ST082310M8	8280 CS1 071227H	24-AUG-10 08:52:46	ST082310M7	ST082310M8	BS

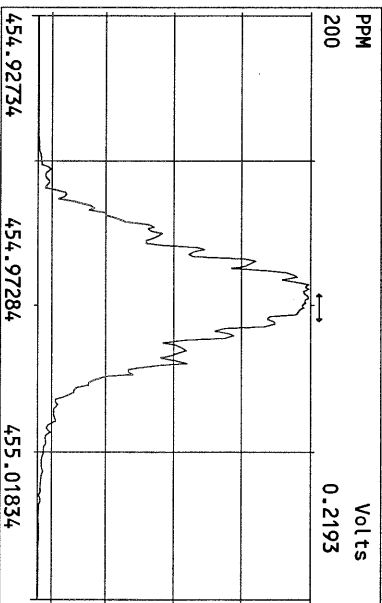
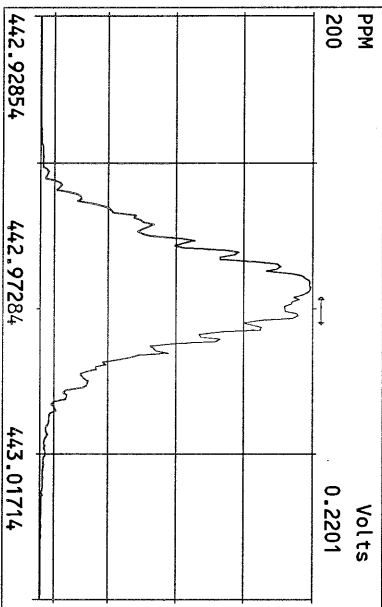
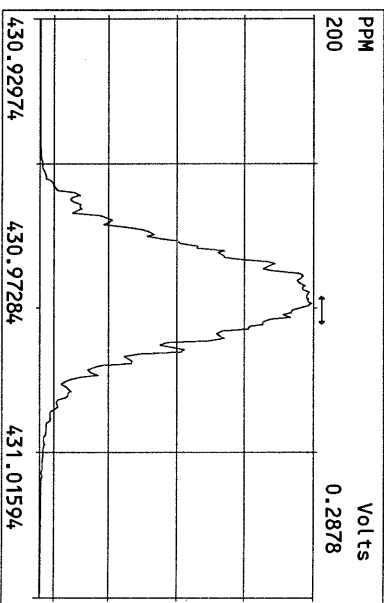
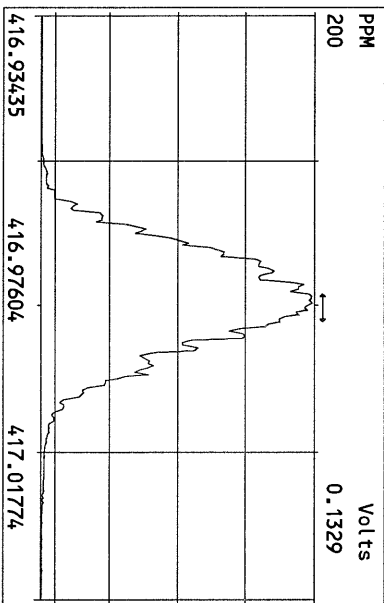
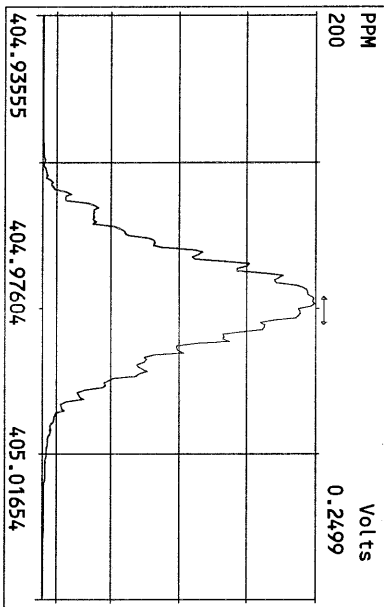
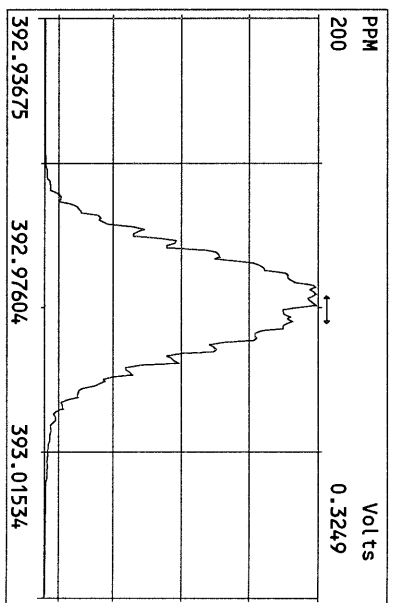
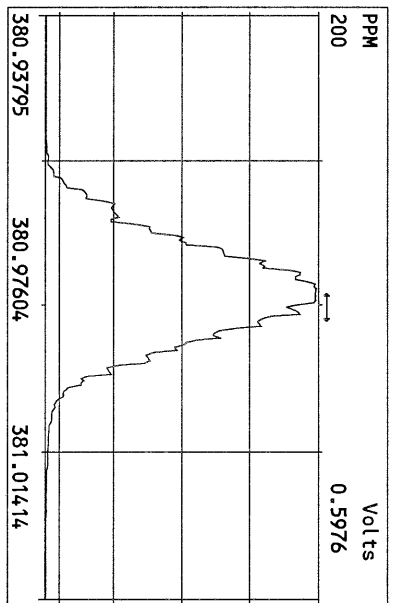
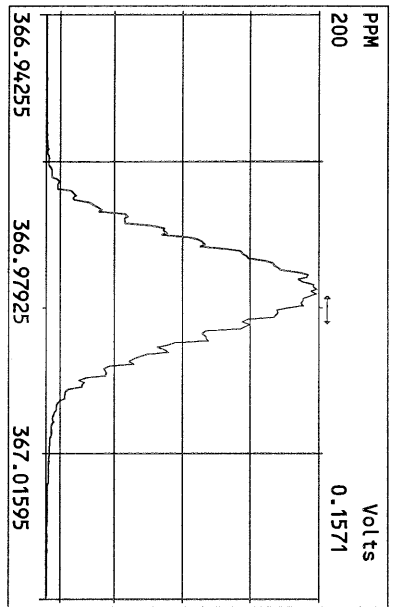
 8/24/10

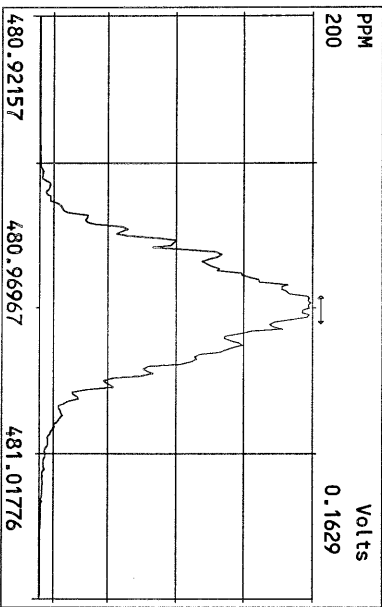
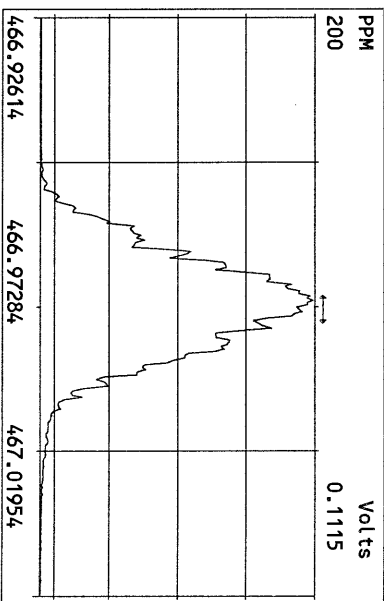
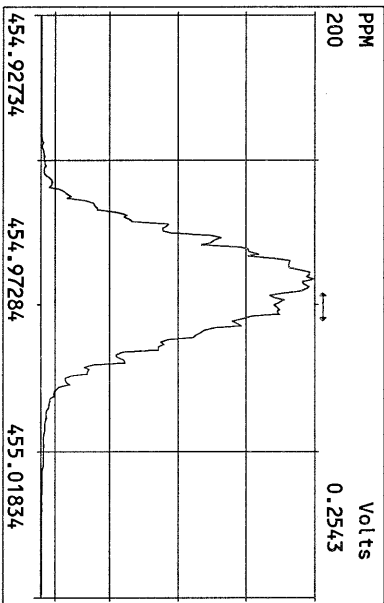
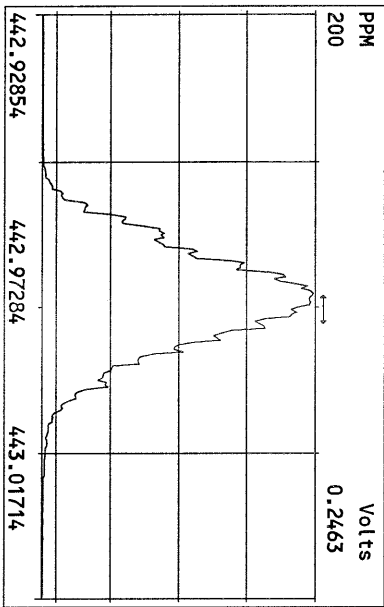
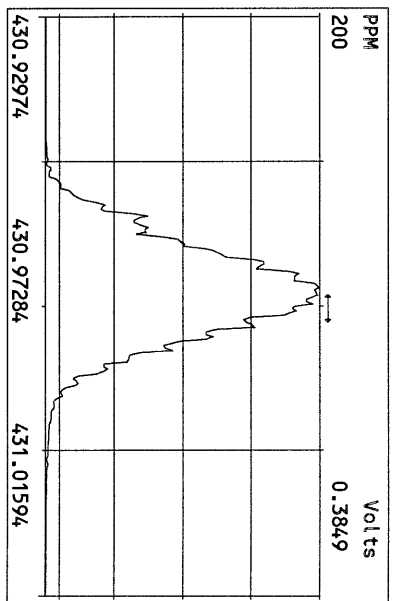
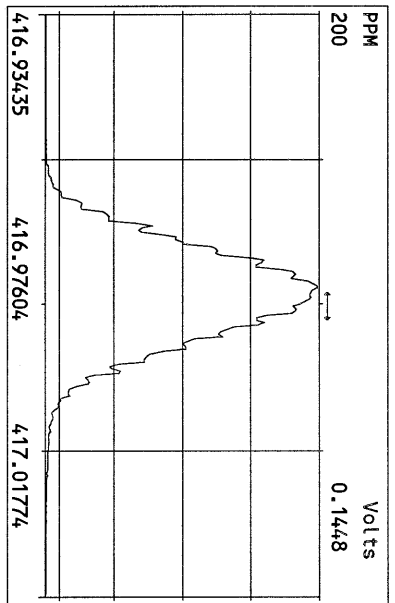
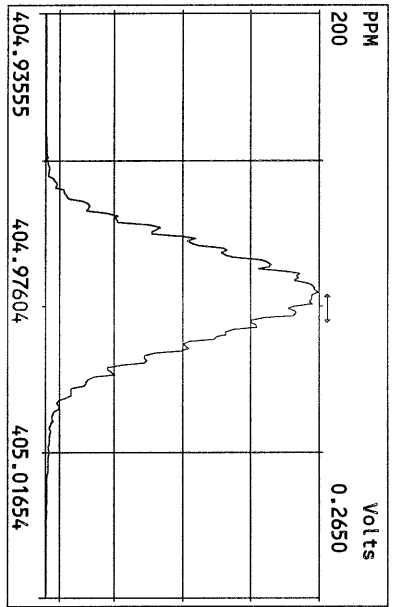
Data Backed Up: _____

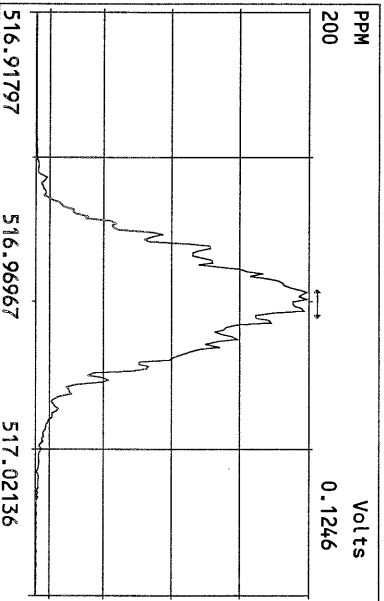
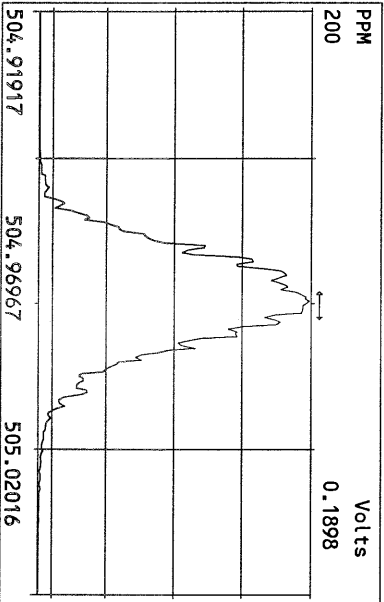
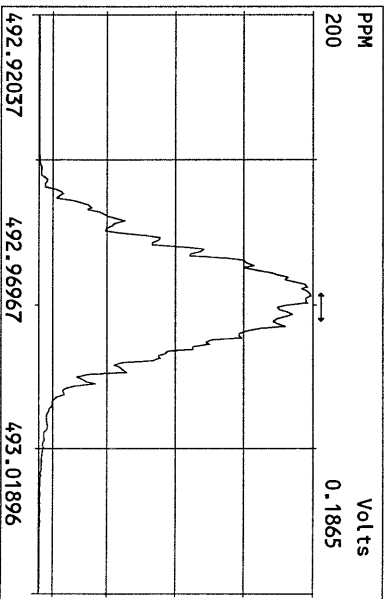
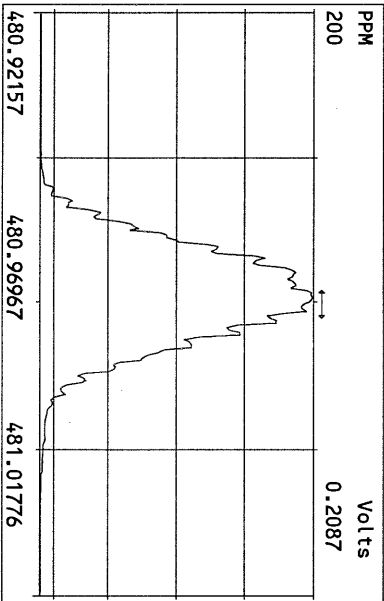
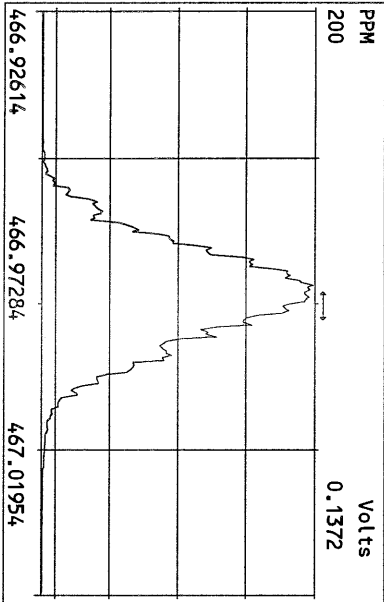
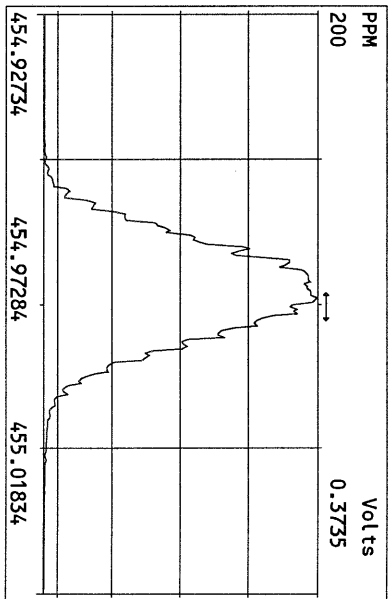
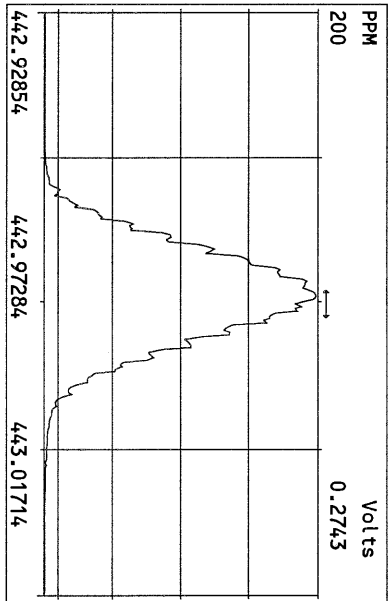
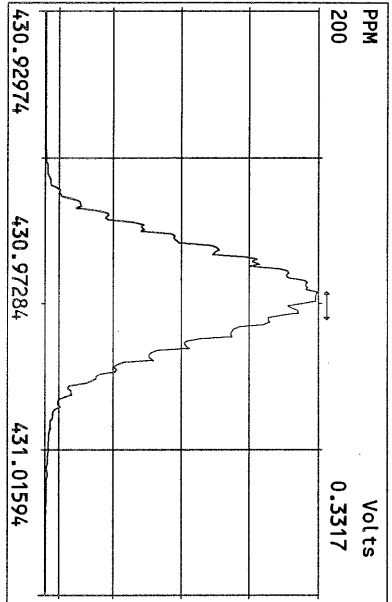
Date: _____



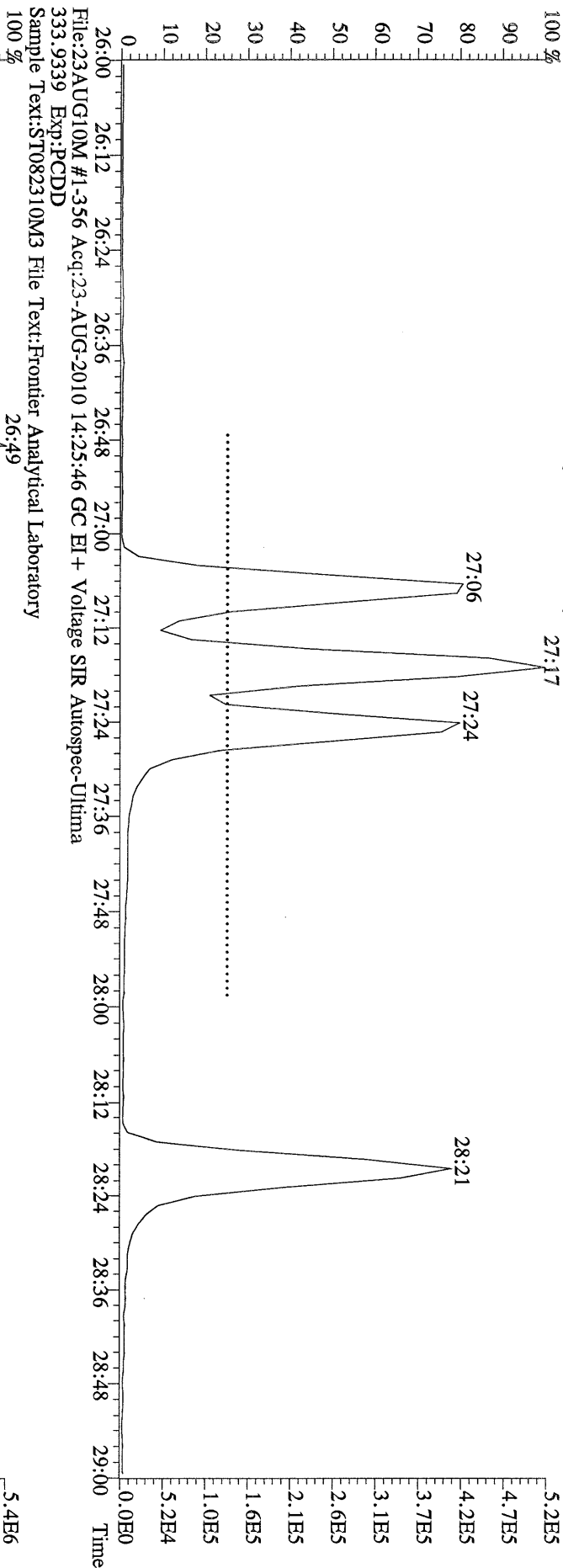




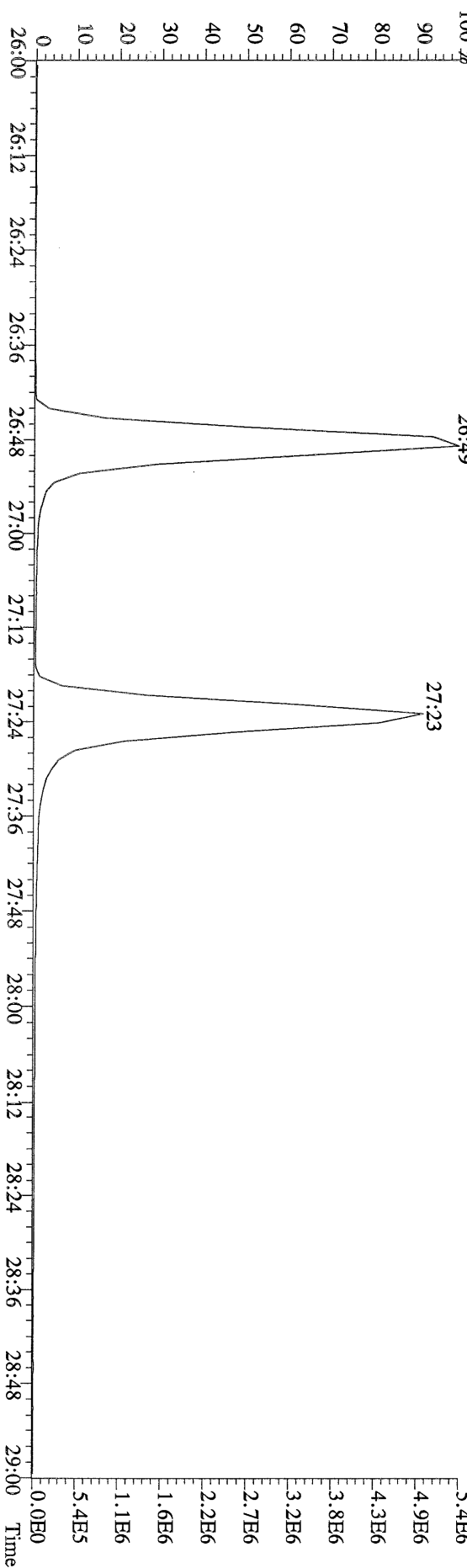




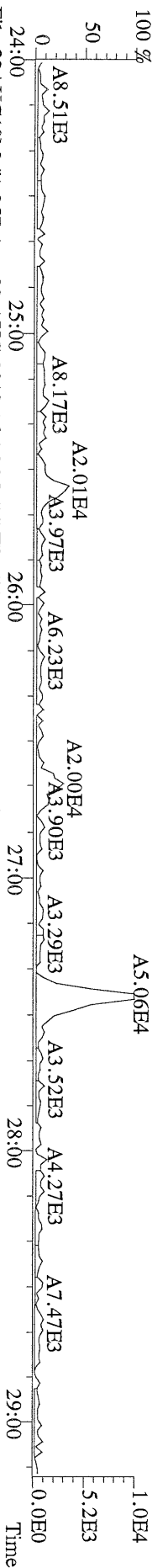
File:23AUG10M #1-356 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
319,8965 Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



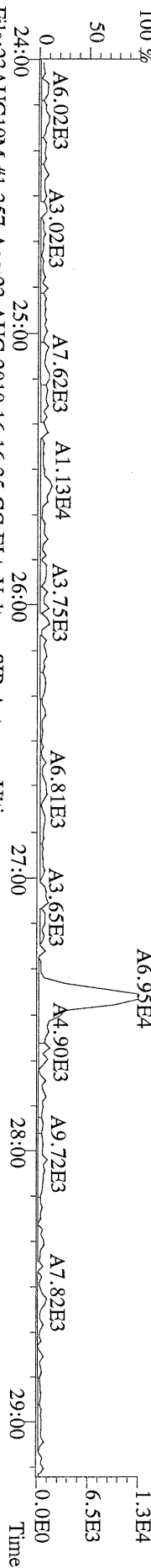
File:23AUG10M #1-356 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
333,9339 Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



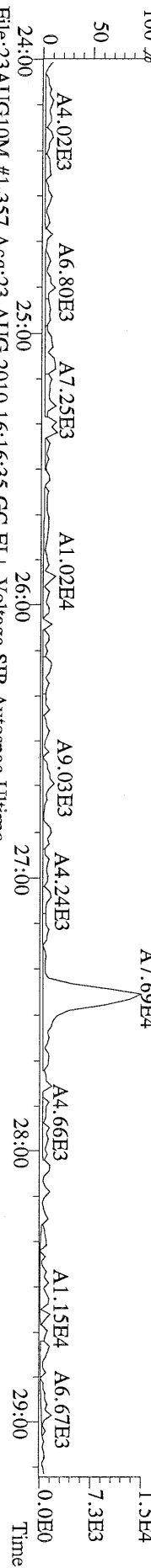
File:23AUG10M #1-357 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



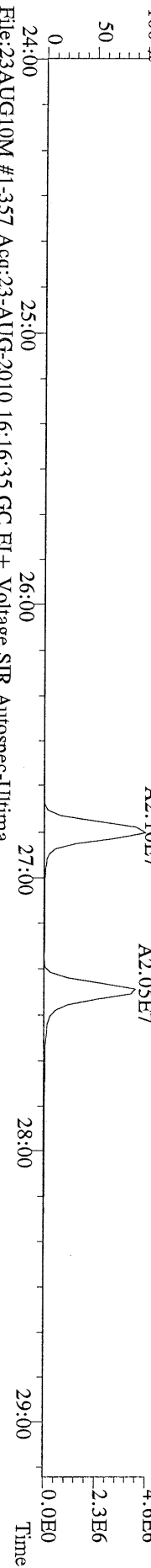
File:23AUG10M #1-357 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



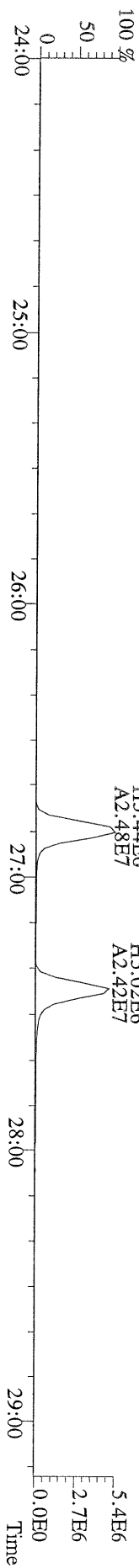
File:23AUG10M #1-357 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



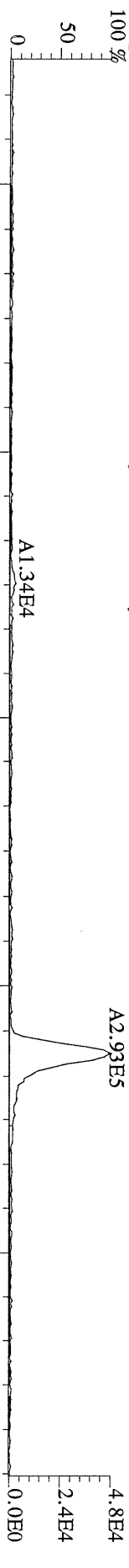
File:23AUG10M #1-357 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



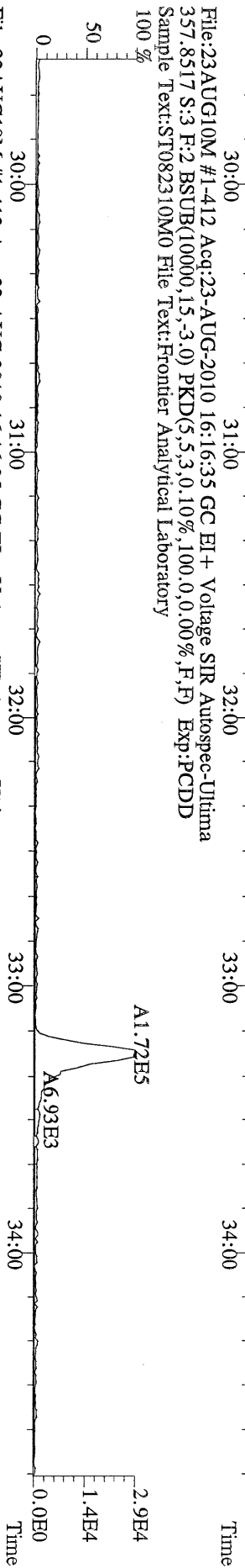
File:23AUG10M #1-357 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



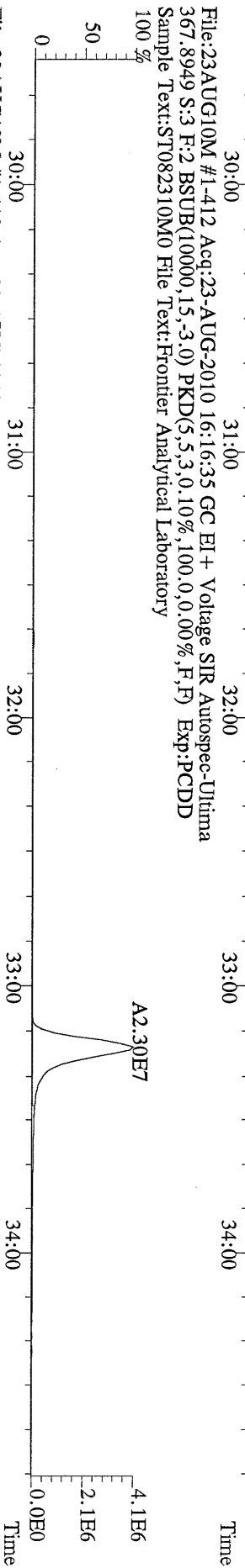
File:23AUG10M #1-412 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
355,8546 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory
100 %



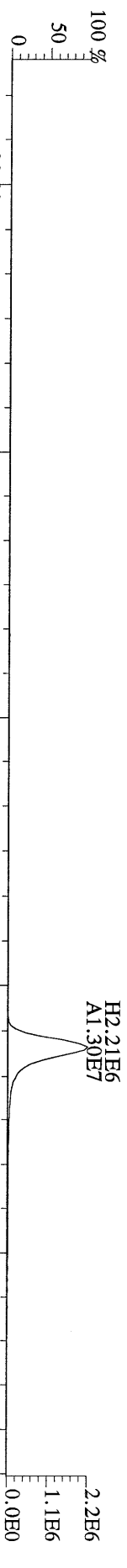
File:23AUG10M #1-412 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
357,8517 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory
100 %



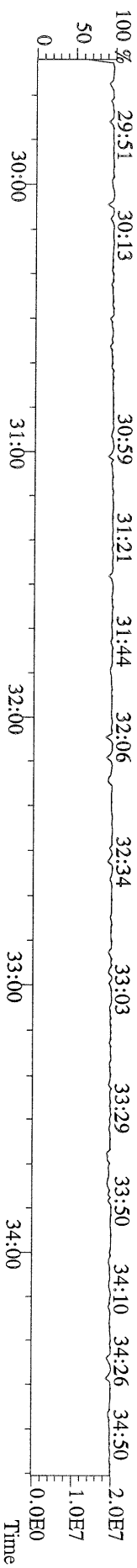
File:23AUG10M #1-412 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
367,8949 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory
100 %



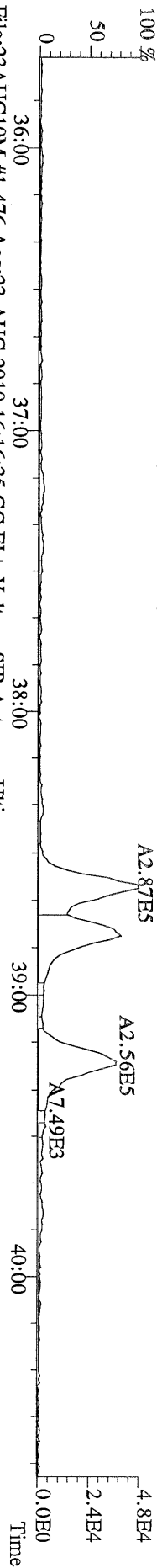
File:23AUG10M #1-412 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
369,8919 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



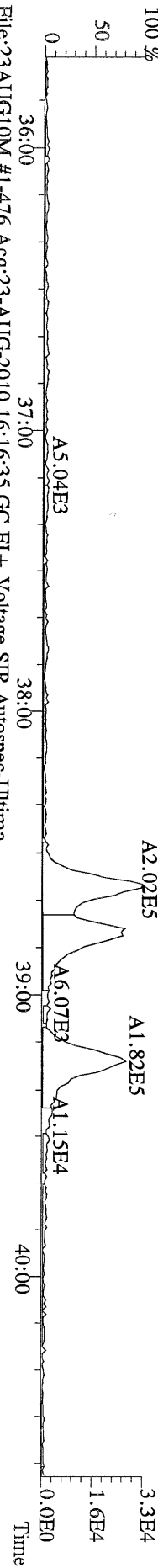
File:23AUG10M #1-412 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
366,9792 S:3 F:2 Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



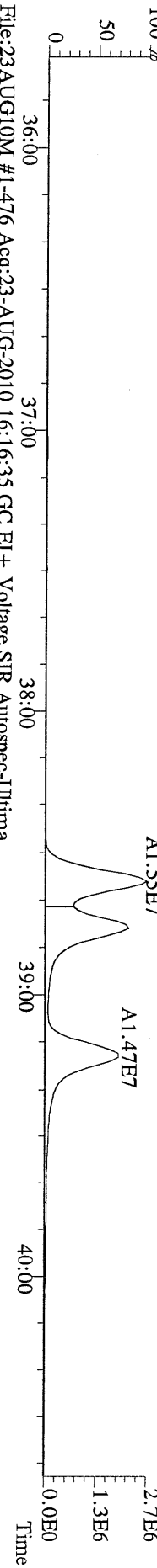
File:23AUG10M #1-476 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Utima
389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



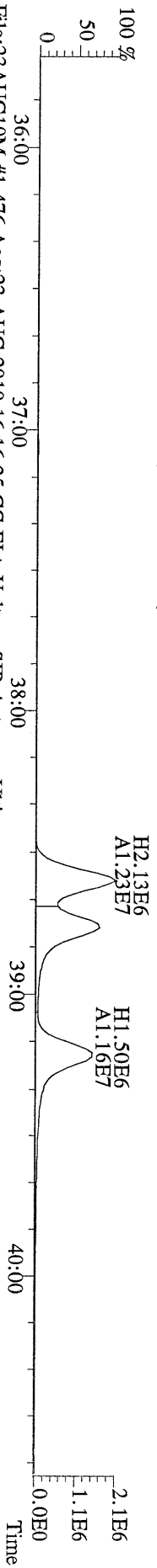
File:23AUG10M #1-476 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Utima
391.8127 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



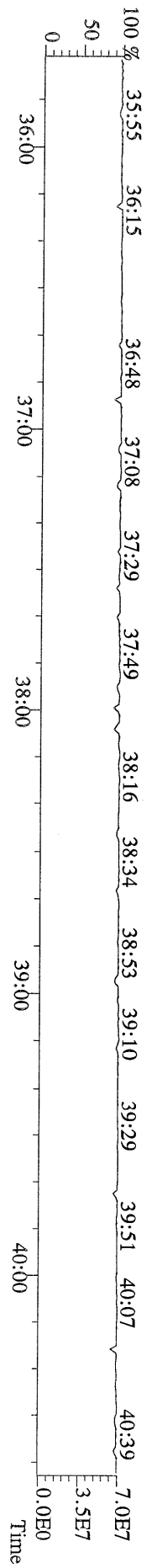
File:23AUG10M #1-476 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Utima
401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



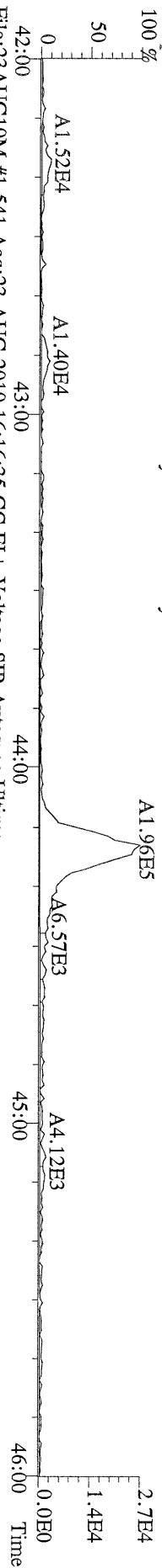
File:23AUG10M #1-476 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Utima
403.8530 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



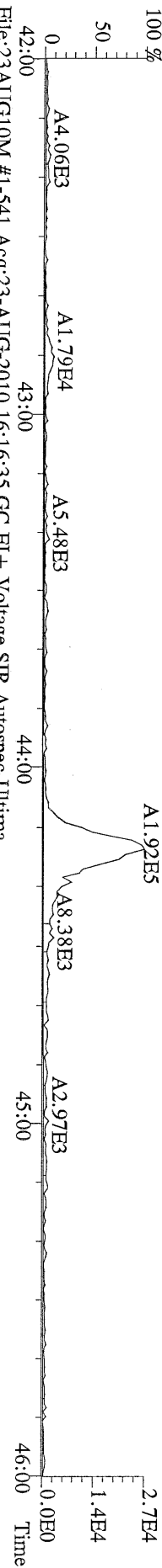
File:23AUG10M #1-476 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Utima
380.9760 S:3 F:3 Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



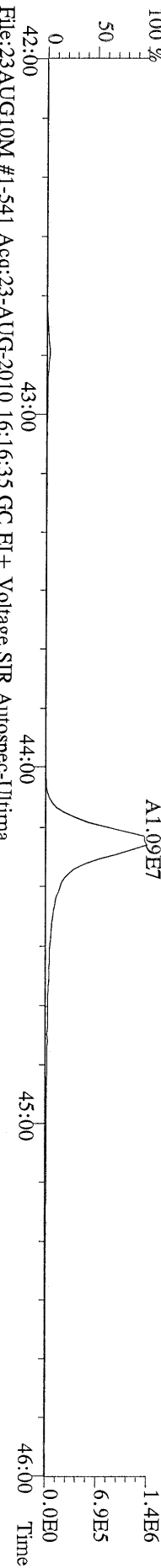
File:23AUG10M #1-541 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



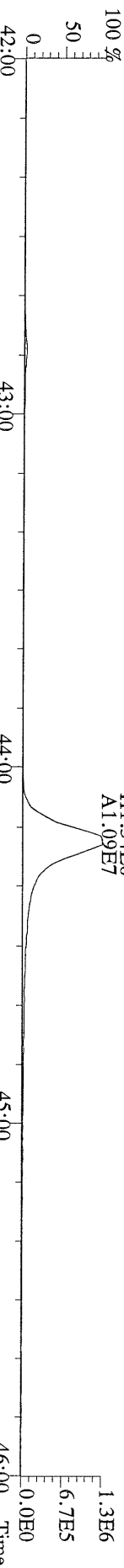
File:23AUG10M #1-541 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:3 F:4 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



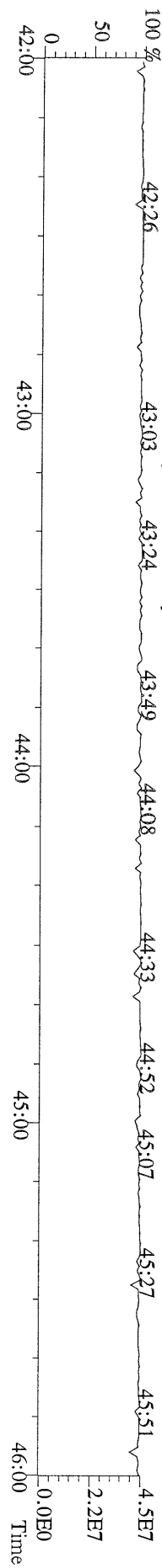
File:23AUG10M #1-541 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:3 F:4 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



File:23AUG10M #1-541 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:3 F:4 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



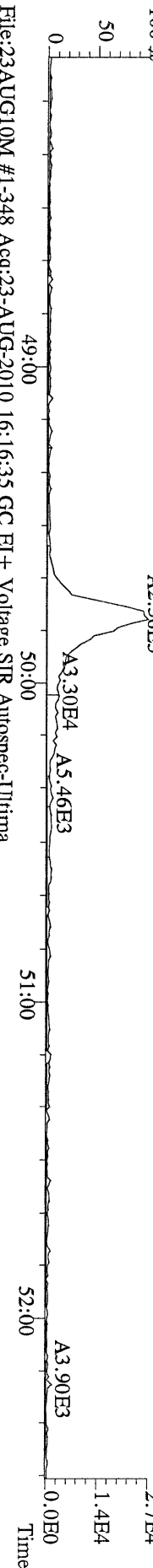
File:23AUG10M #1-541 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:3 F:4 Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



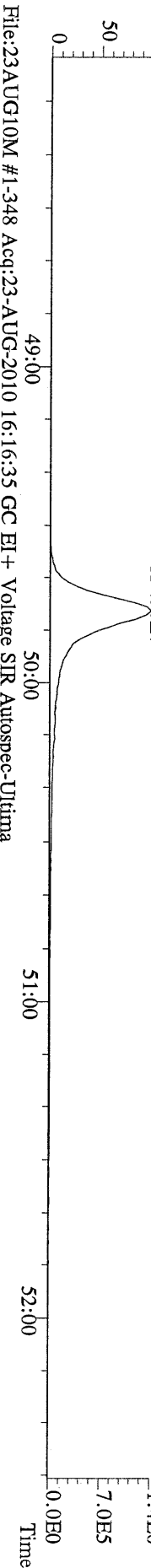
File:23AUG10M #1-348 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Fronier Analytical Laboratory



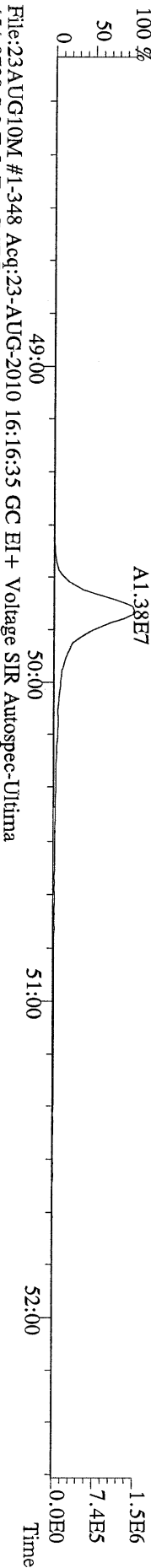
File:23AUG10M #1-348 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Fronier Analytical Laboratory



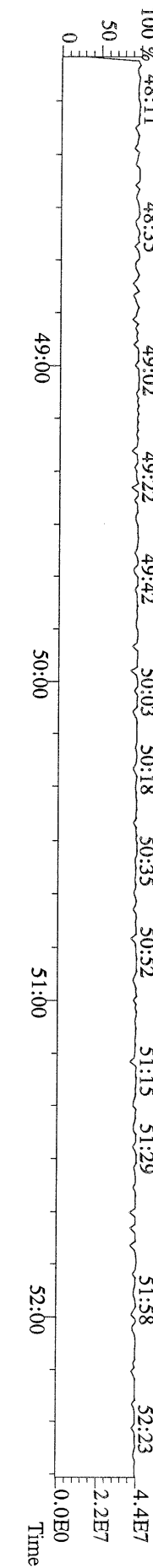
File:23AUG10M #1-348 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Fronier Analytical Laboratory



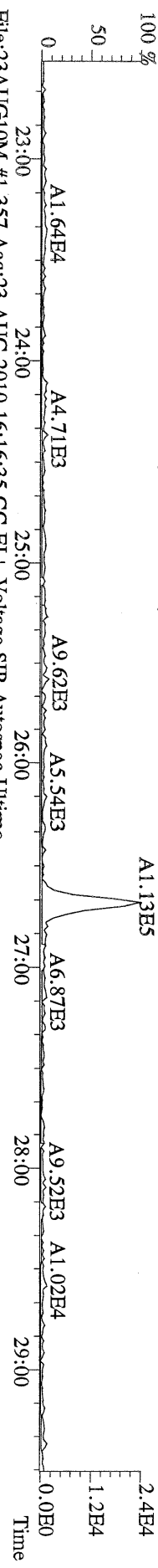
File:23AUG10M #1-348 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Fronier Analytical Laboratory



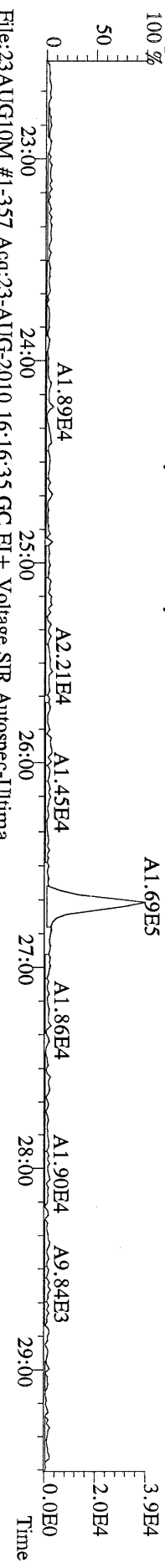
File:23AUG10M #1-348 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:3 F:5 Exp:PCDD
Sample Text:ST082310M0 File Text:Fronier Analytical Laboratory



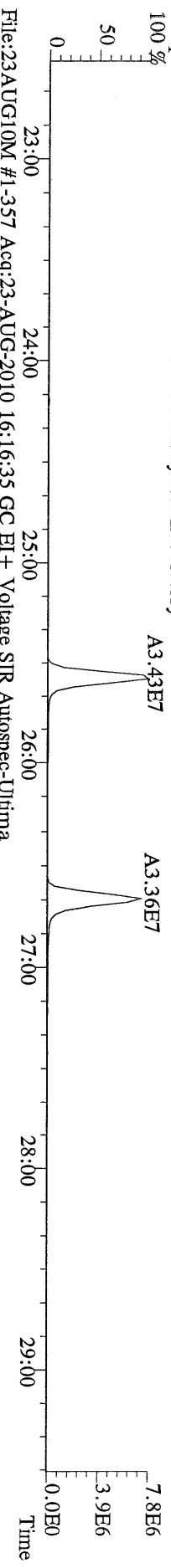
File:23AUG10M #1-357 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



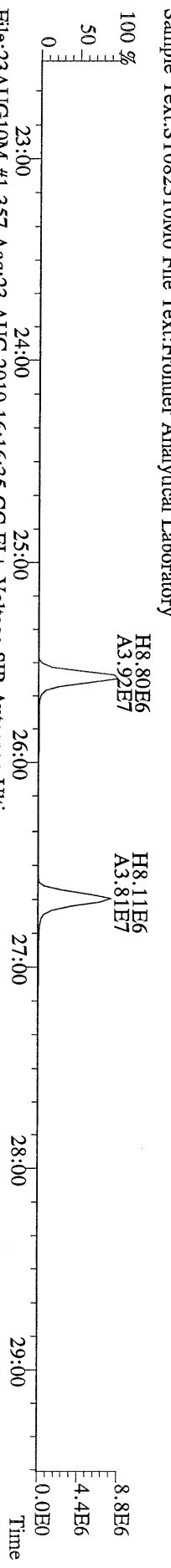
File:23AUG10M #1-357 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
 305.8987 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



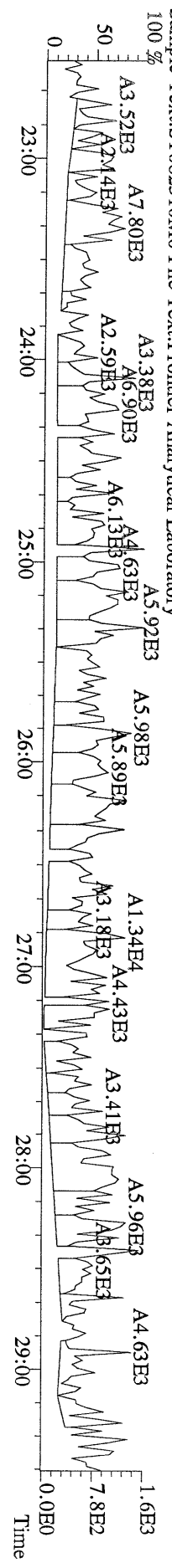
File:23AUG10M #1-357 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
 315.9419 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



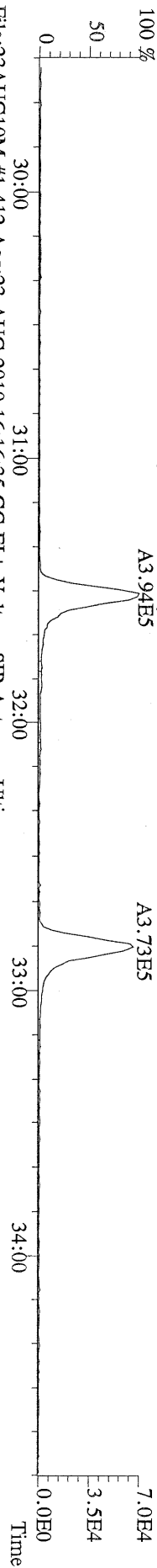
File:23AUG10M #1-357 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
 317.9389 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



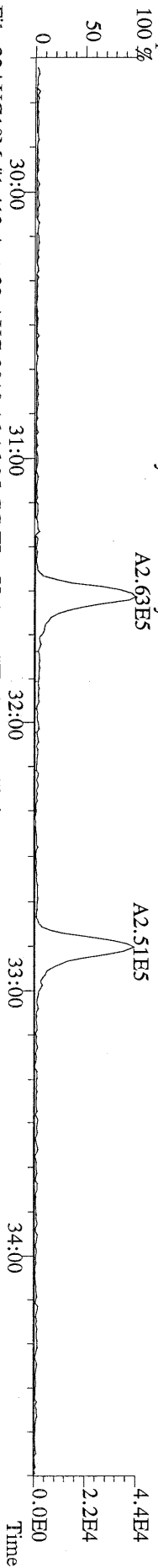
File:23AUG10M #1-357 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
 375.8364 S:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



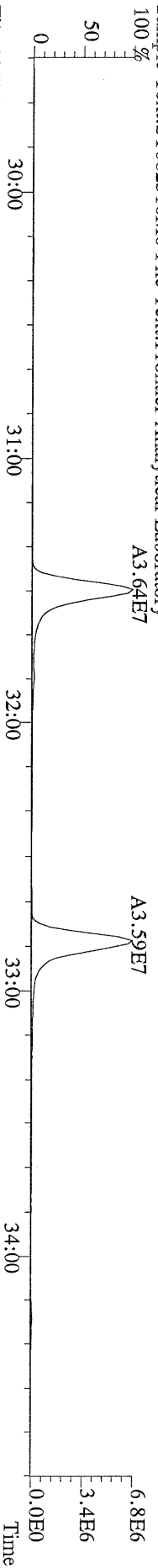
File:23AUG10M #1-412 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Utima
 339,8597 S:3 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



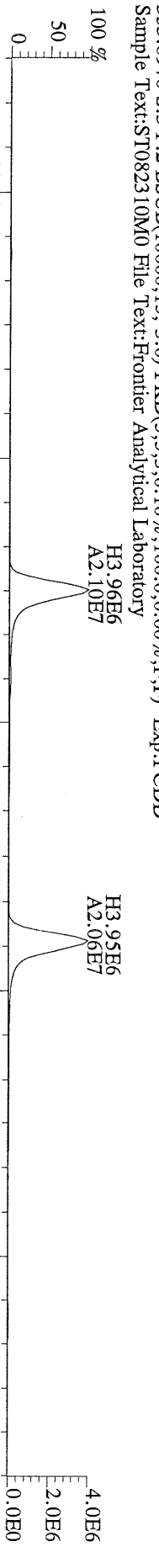
File:23AUG10M #1-412 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Utima
 341,8568 S:3 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



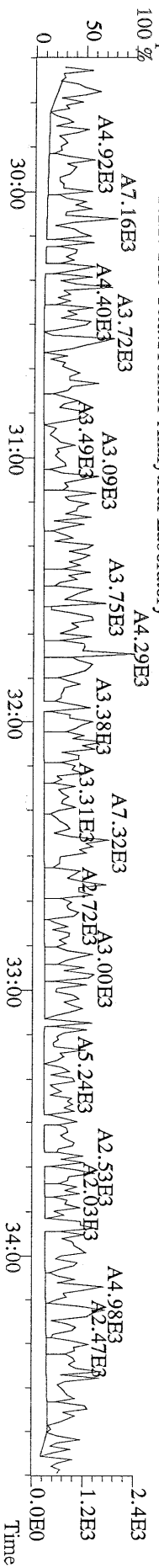
File:23AUG10M #1-412 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Utima
 351,9000 S:3 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



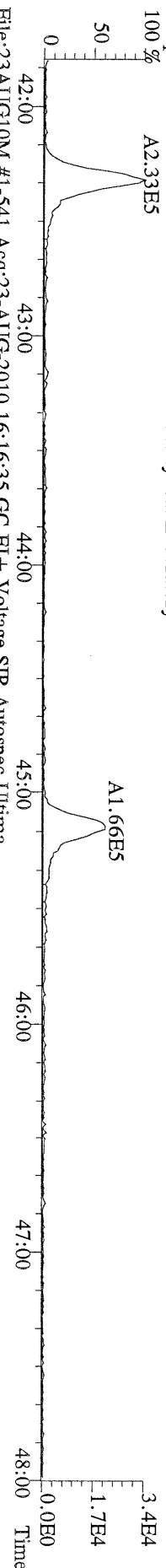
File:23AUG10M #1-412 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Utima
 353,8970 S:3 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



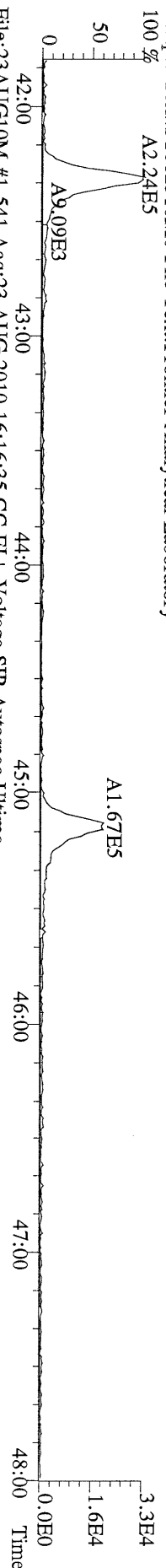
File:23AUG10M #1-412 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Utima
 409,7974 S:3 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



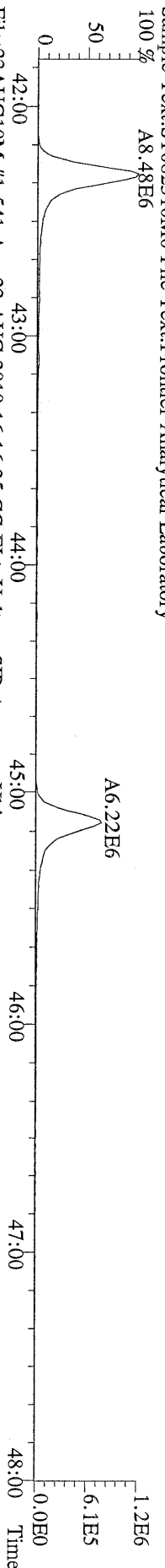
File:23AUG10M #1-541 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Utima
407.7818 S:3 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory
100 % A2.33E5



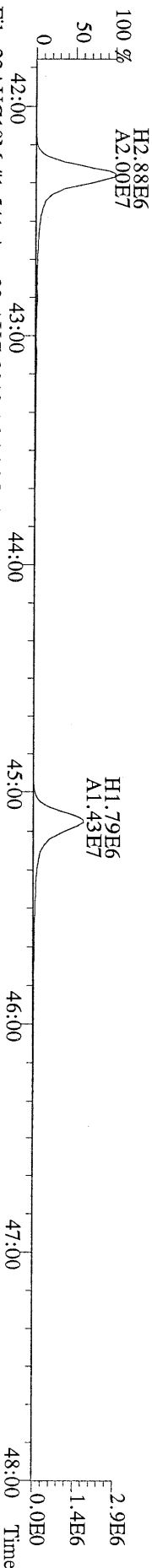
File:23AUG10M #1-541 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Utima
409.7788 S:3 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory
100 % A2.24E5



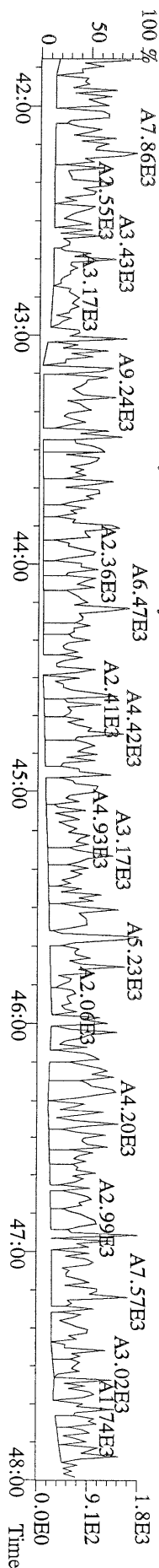
File:23AUG10M #1-541 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Utima
417.8253 S:3 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory
100 % A8.48E6



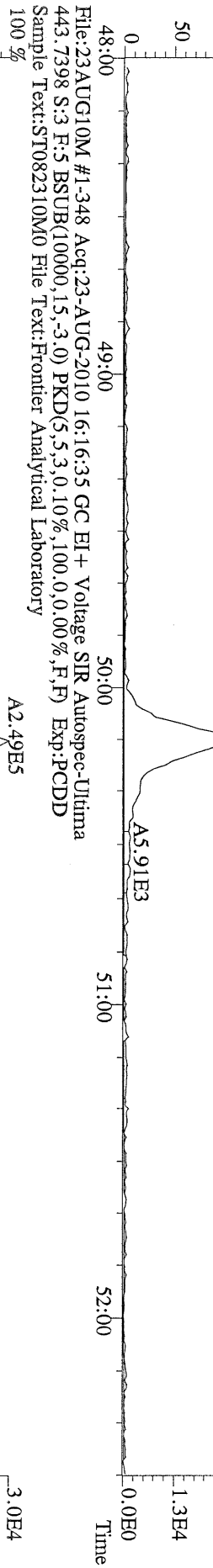
File:23AUG10M #1-541 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Utima
419.8220 S:3 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



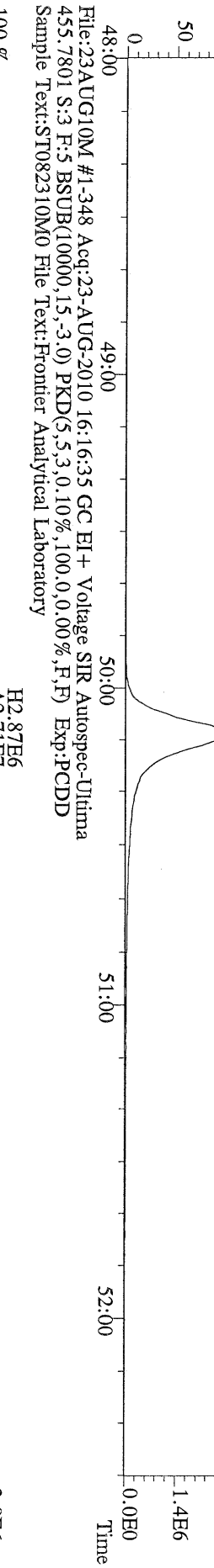
File:23AUG10M #1-541 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Utima
479.7165 S:3 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



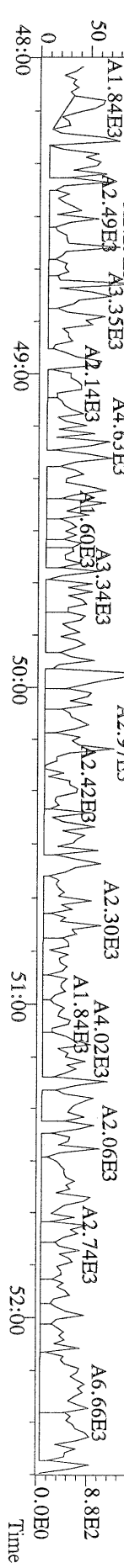
File:23AUG10M #1-348 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:3 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



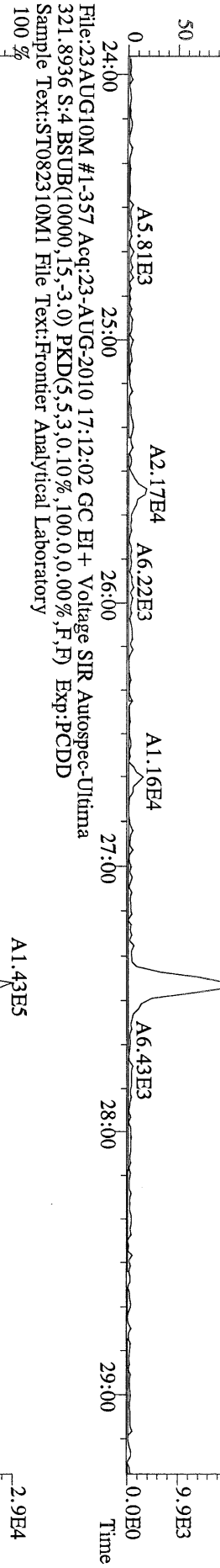
File:23AUG10M #1-348 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:3 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



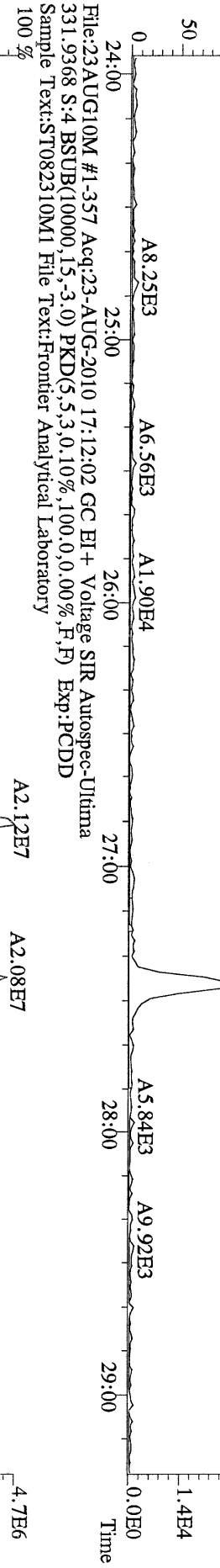
File:23AUG10M #1-348 Acq:23-AUG-2010 16:16:35 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:3 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M0 File Text:Frontier Analytical Laboratory



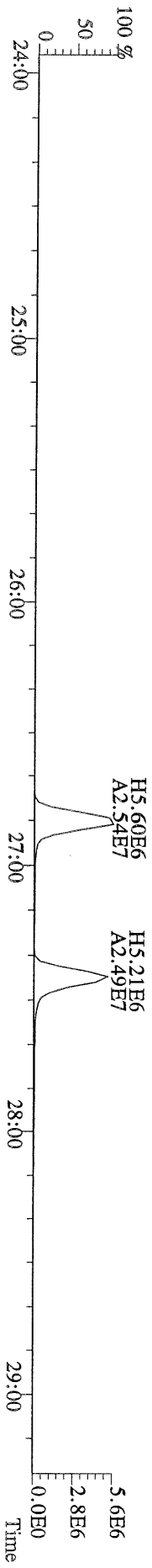
File:23AUG10M #1-357 Acq:23-AUG-2010 17:12:02 GC BI+ Voltage SIR Autospec-Utlima
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory
100 %



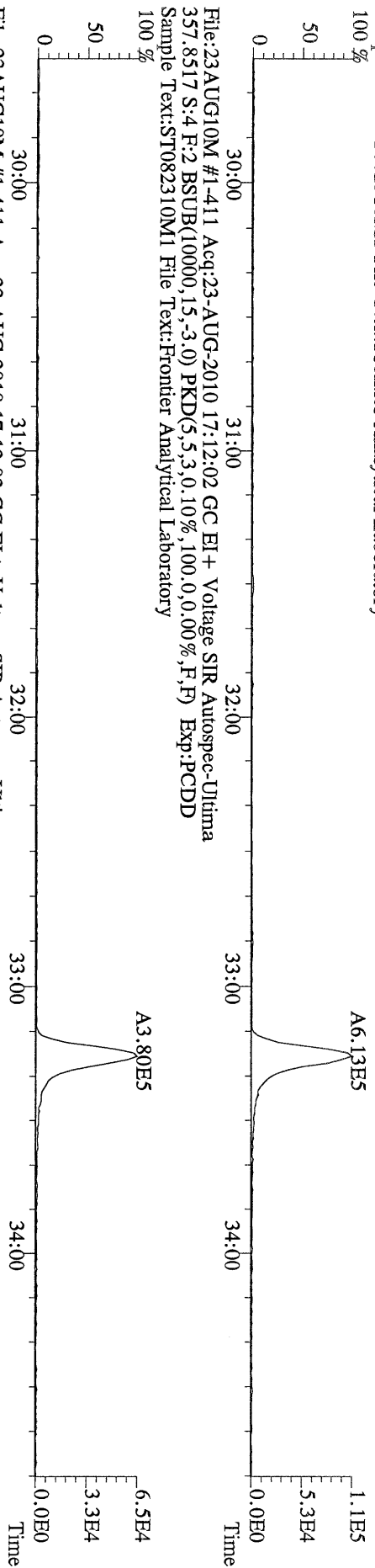
File:23AUG10M #1-357 Acq:23-AUG-2010 17:12:02 GC BI+ Voltage SIR Autospec-Utlima
327.8847 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory
100 %



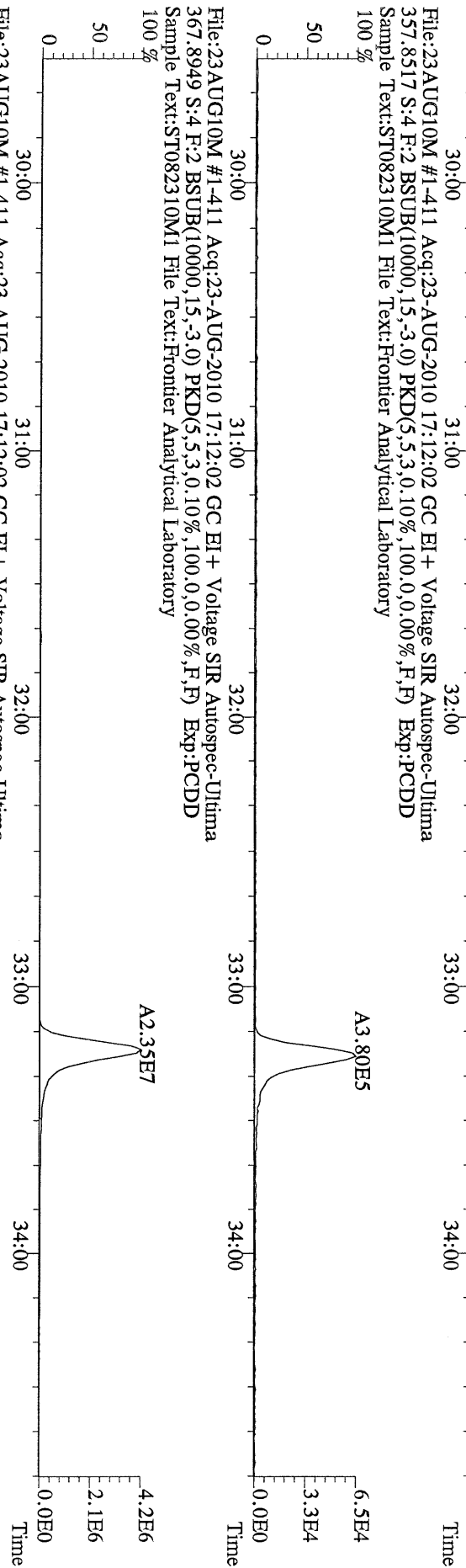
File:23AUG10M #1-357 Acq:23-AUG-2010 17:12:02 GC BI+ Voltage SIR Autospec-Utlima
333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory
100 %



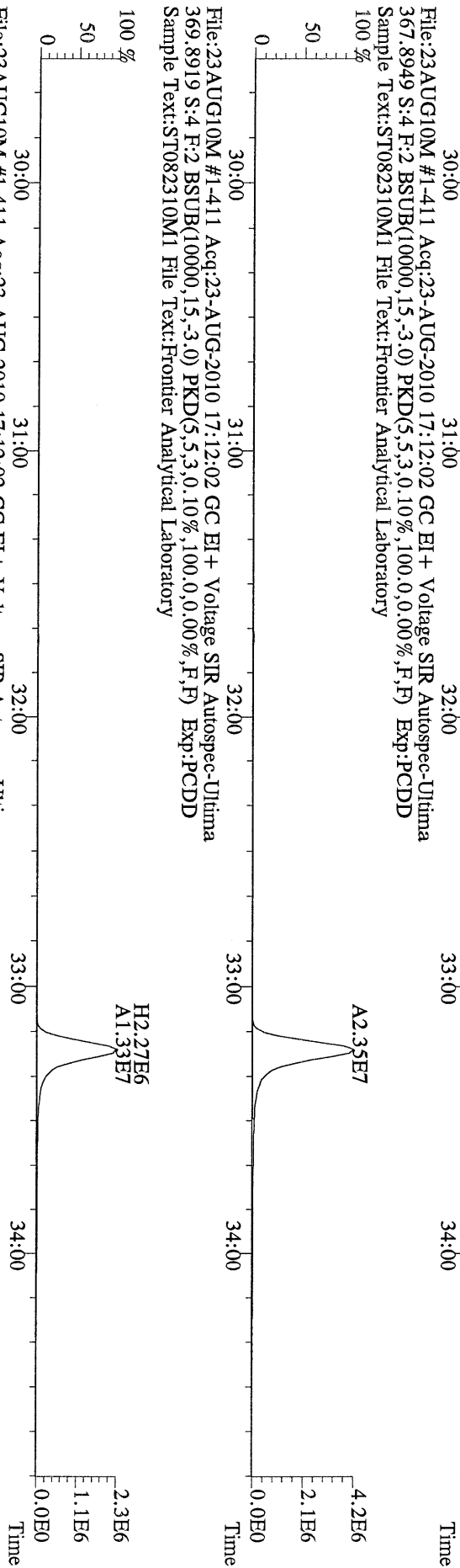
File:23AUG10M #1-411 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Utima
355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory
100 %



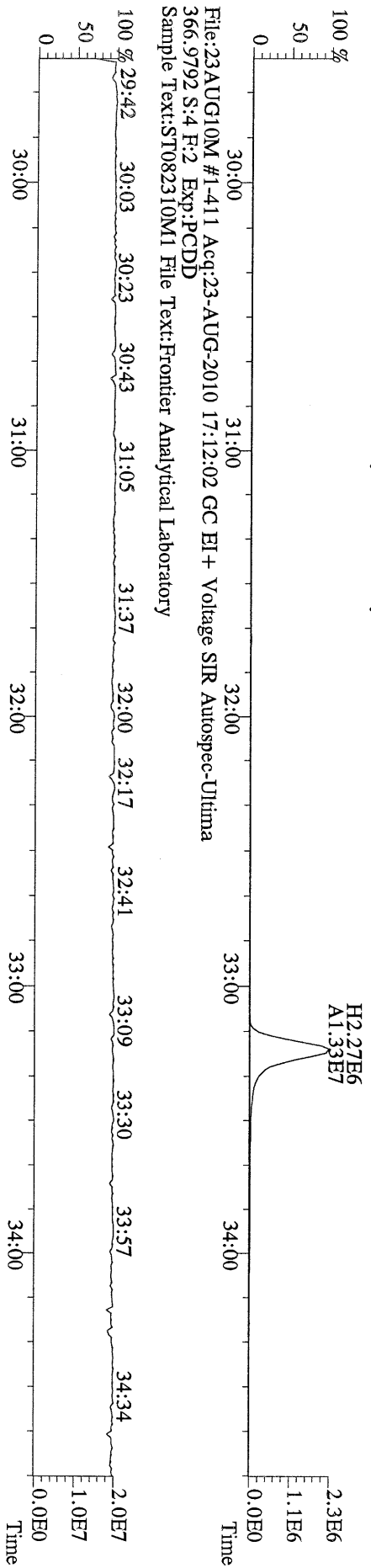
File:23AUG10M #1-411 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Utima
357.8517 S:4 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory
100 %



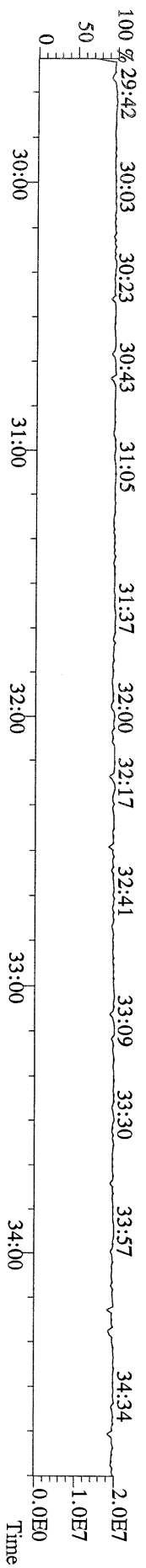
File:23AUG10M #1-411 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Utima
367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory
100 %



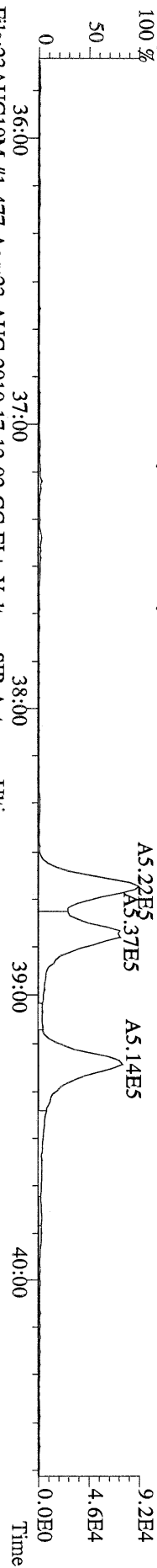
File:23AUG10M #1-411 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Utima
369.8919 S:4 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



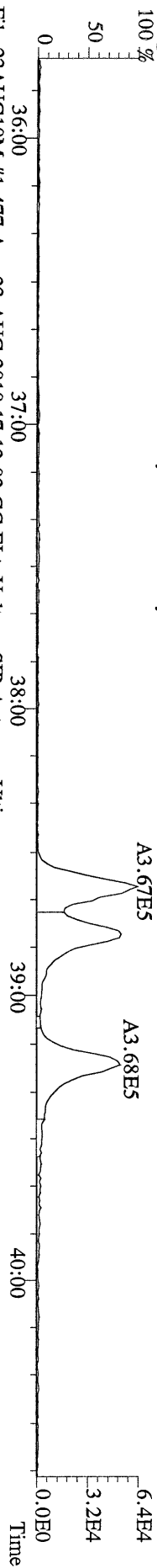
File:23AUG10M #1-411 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Utima
366.9792 S:4 F:2 Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



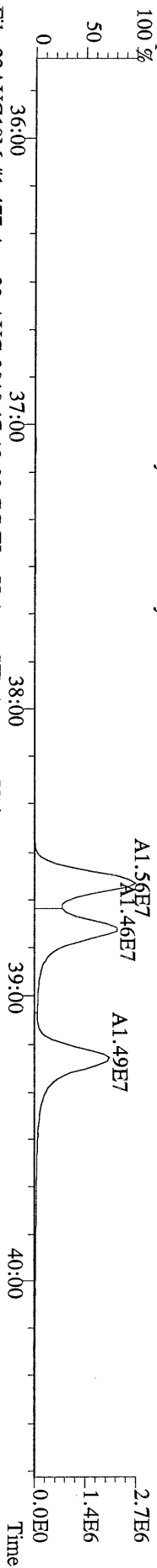
File:23AUG10M #1-477 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



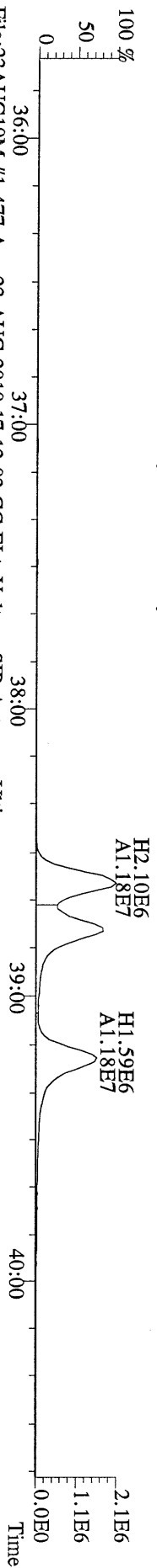
File:23AUG10M #1-477 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



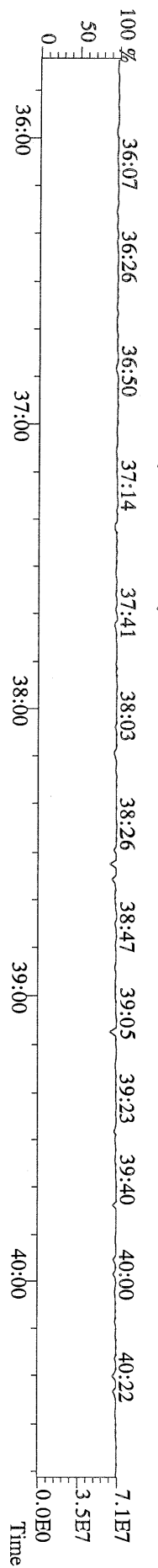
File:23AUG10M #1-477 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



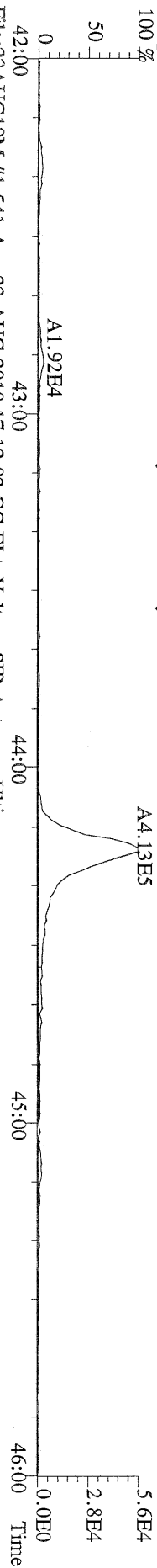
File:23AUG10M #1-477 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



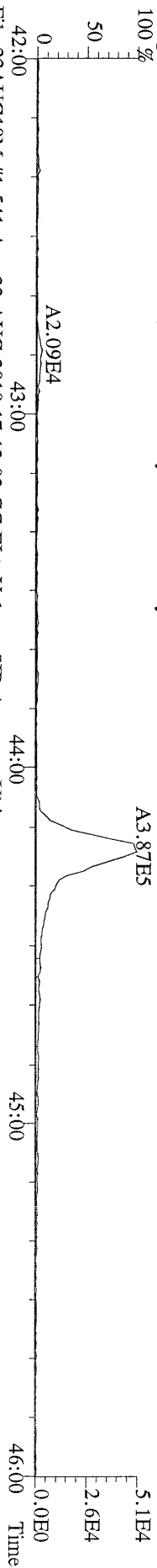
File:23AUG10M #1-477 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:4 F:3 Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



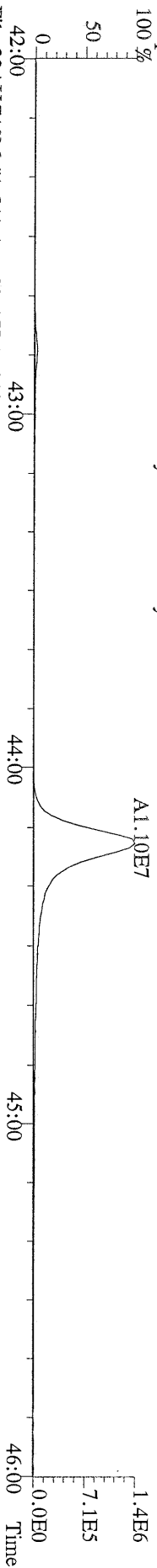
File:23AUG10M #1-541 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:4 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory
100 %



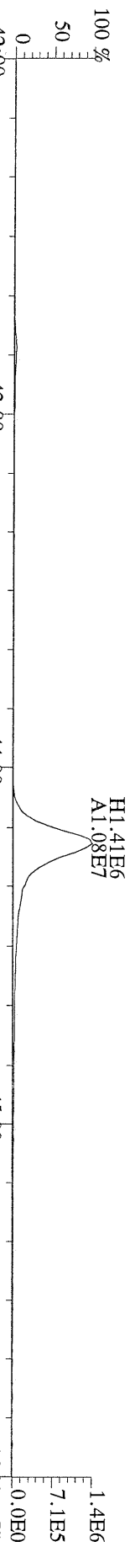
File:23AUG10M #1-541 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:4 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory
100 %



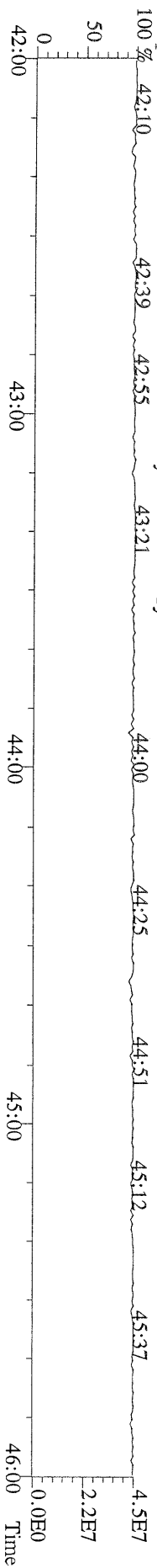
File:23AUG10M #1-541 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:4 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory
100 %



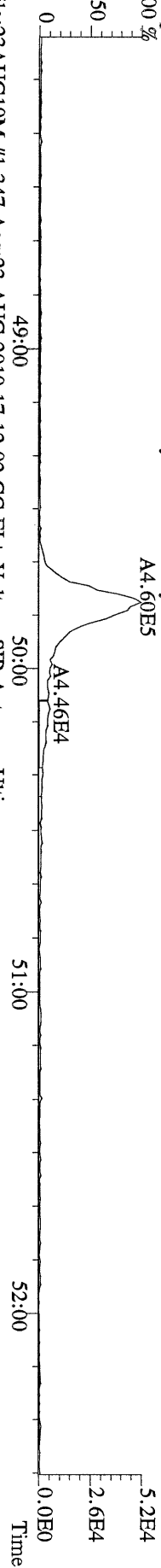
File:23AUG10M #1-541 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:4 F:4 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



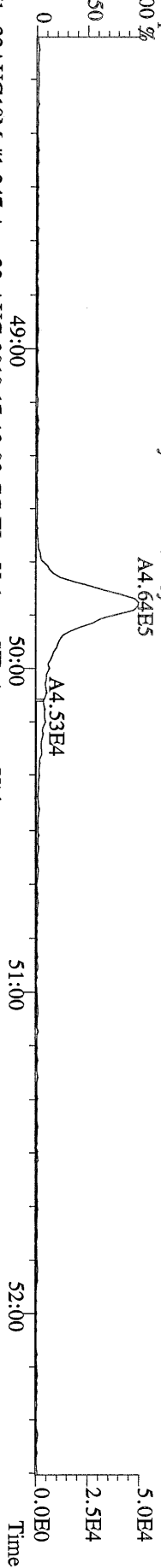
File:23AUG10M #1-541 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:4 F:4 Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory
100 %



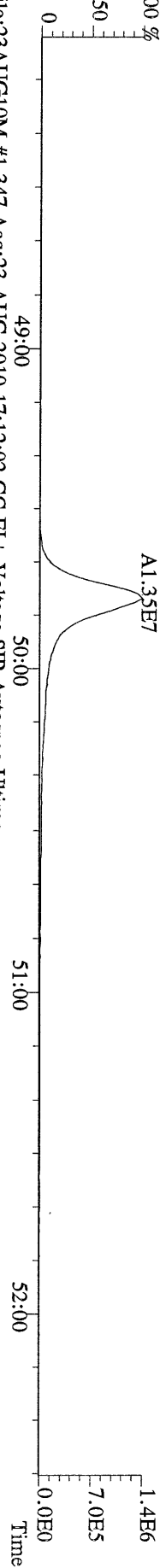
File:23AUG10M #1-347 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Utima
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



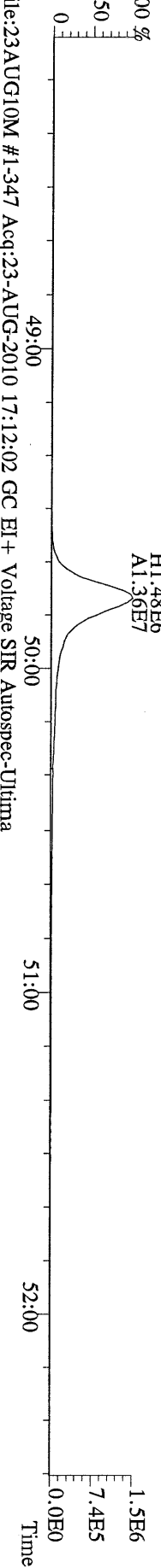
File:23AUG10M #1-347 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Utima
459.7348 S:4 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



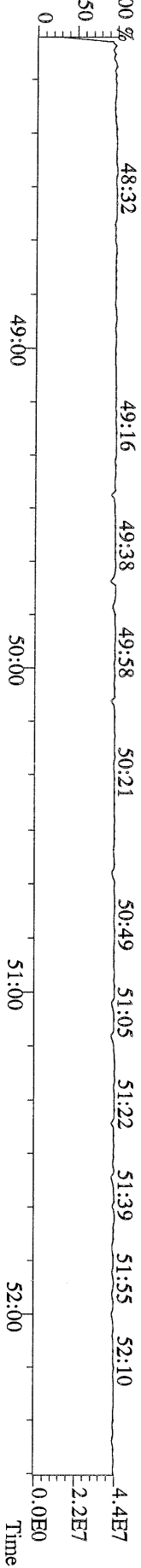
File:23AUG10M #1-347 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Utima
469.7780 S:4 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



File:23AUG10M #1-347 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Utima
471.7750 S:4 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



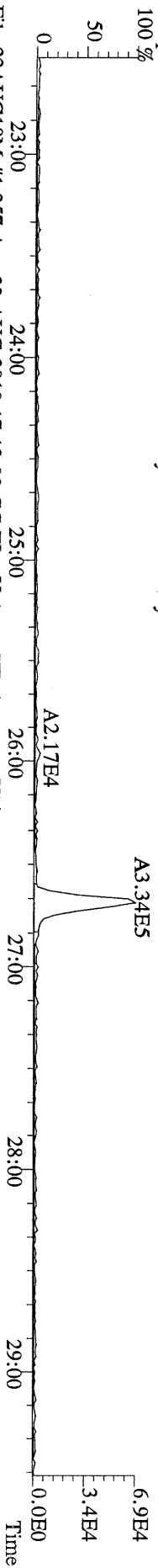
File:23AUG10M #1-347 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Utima
454.9728 S:4 F:5 Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



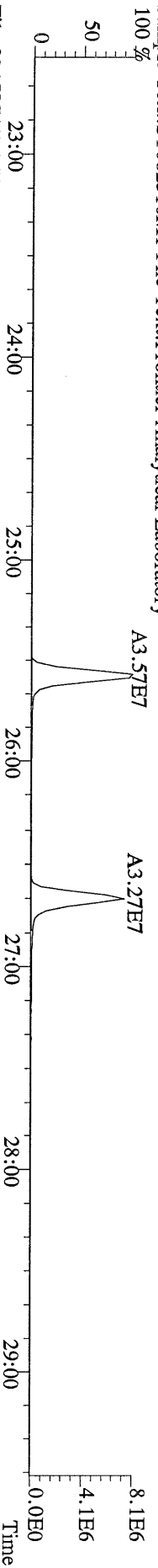
File:23AUG10M #1-357 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



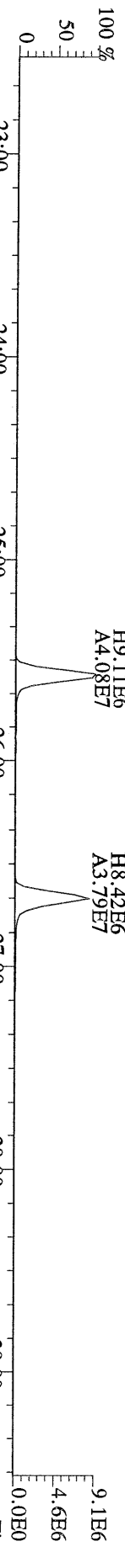
File:23AUG10M #1-357 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
 305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



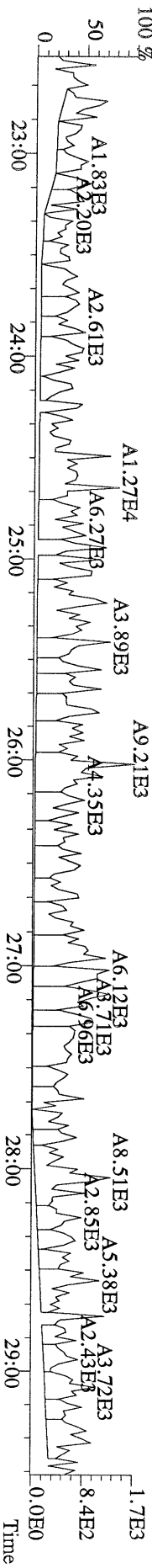
File:23AUG10M #1-357 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
 315.9419 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



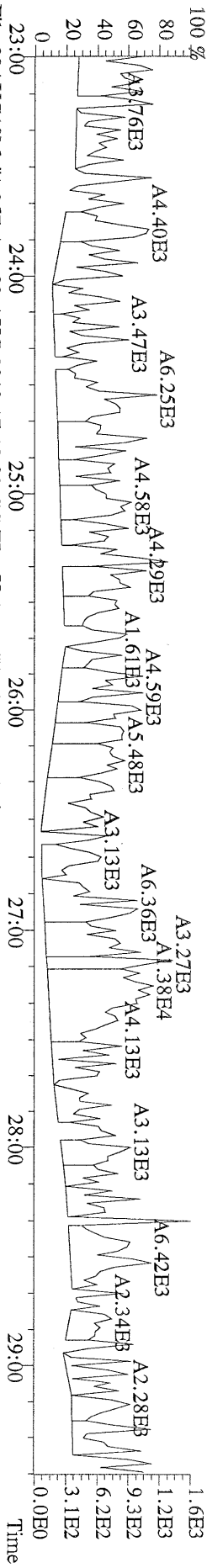
File:23AUG10M #1-357 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
 317.9389 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



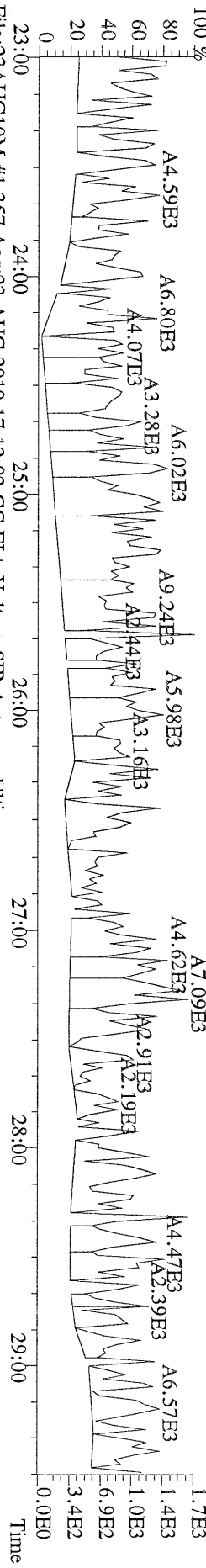
File:23AUG10M #1-357 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
 375.8364 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



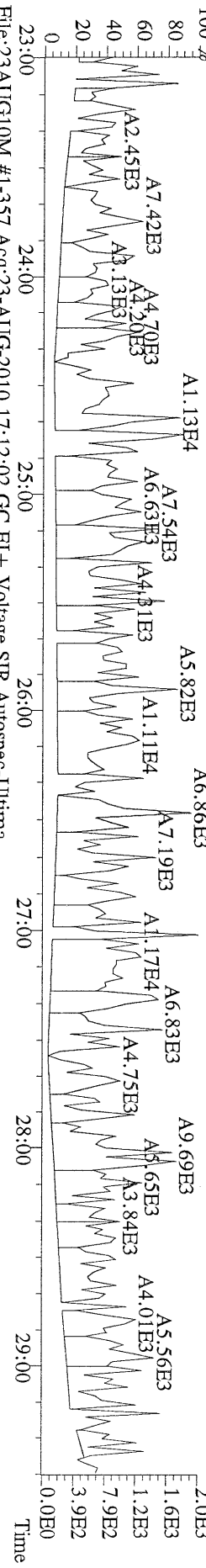
File:23AUG10M #1-357 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



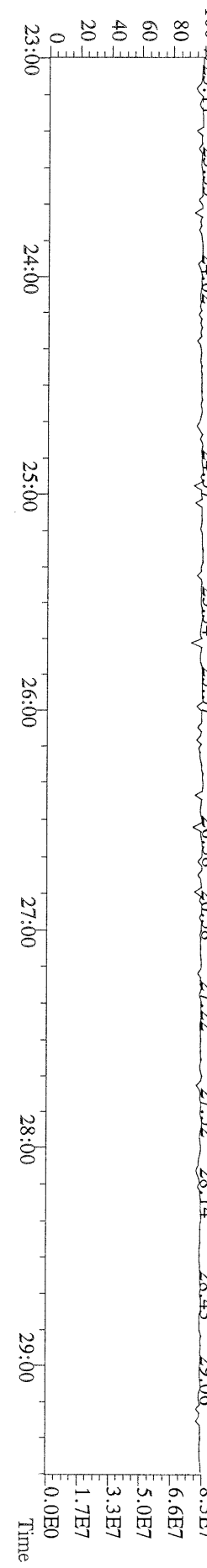
File:23AUG10M #1-357 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



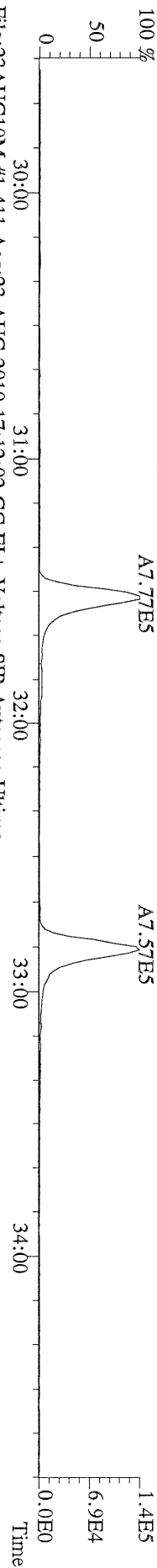
File:23AUG10M #1-357 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



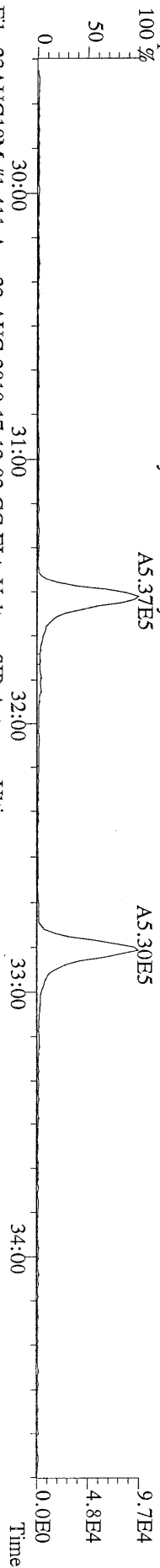
File:23AUG10M #1-357 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
 330.9792 S:4 Exp:PCDD
 Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



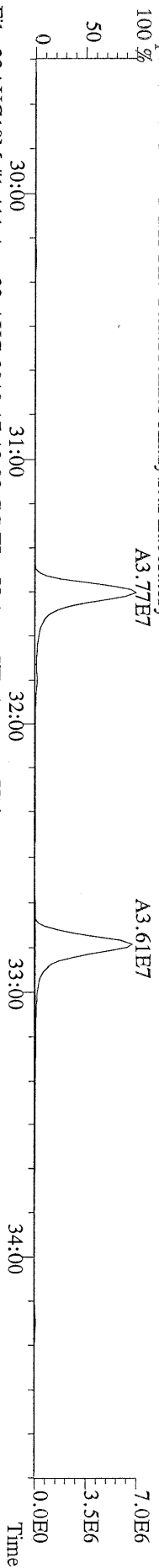
File:23AUG10M #1-411 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
 339,8597 S:4 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



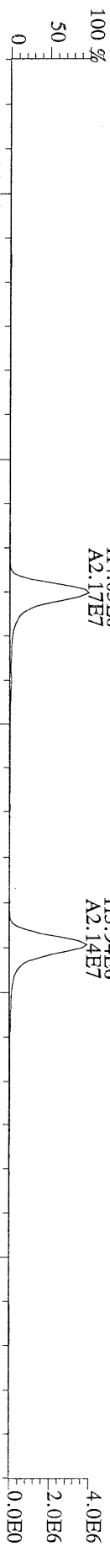
File:23AUG10M #1-411 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
 341,8568 S:4 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



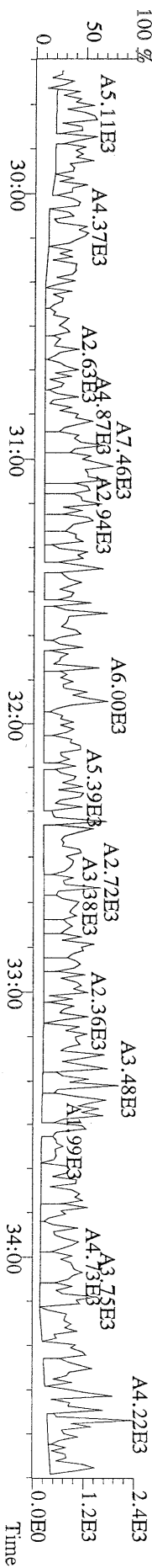
File:23AUG10M #1-411 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
 351,9000 S:4 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



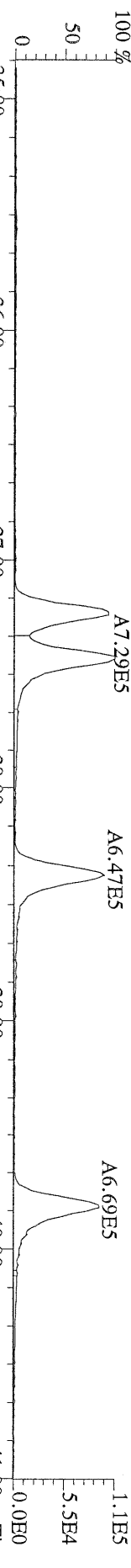
File:23AUG10M #1-411 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
 353,8970 S:4 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



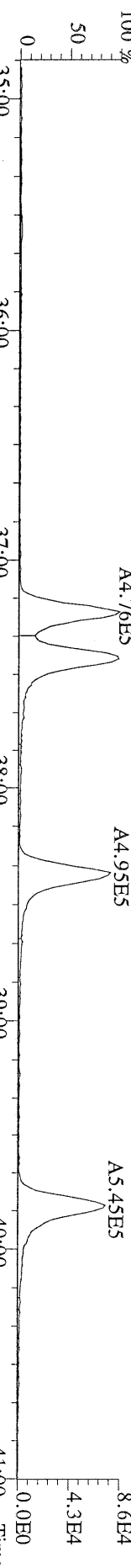
File:23AUG10M #1-411 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
 409,7974 S:4 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



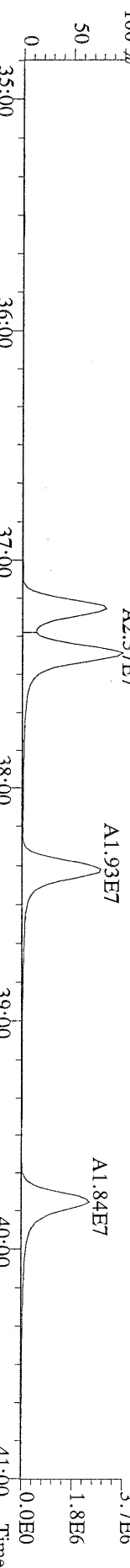
File:23AUG10M #1-477 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
 373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



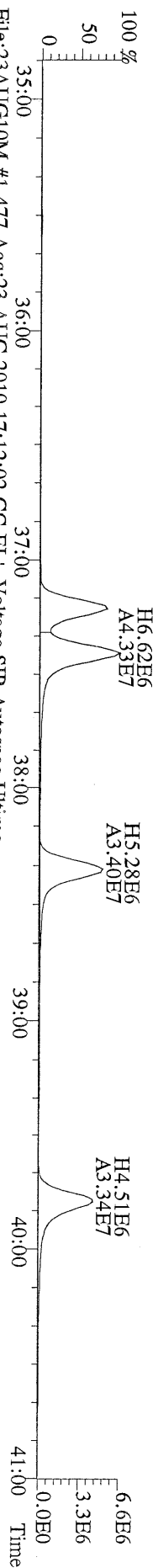
File:23AUG10M #1-477 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
 375.8178 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



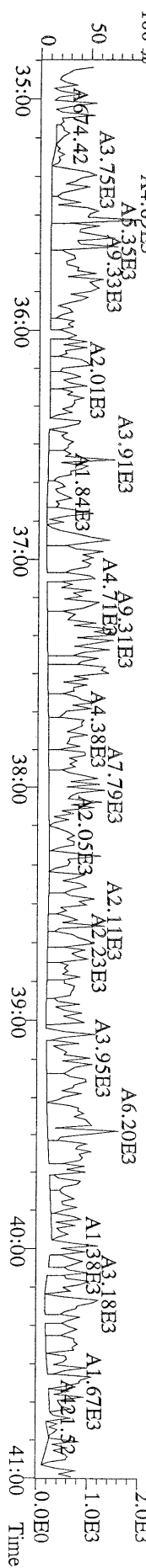
File:23AUG10M #1-477 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
 383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



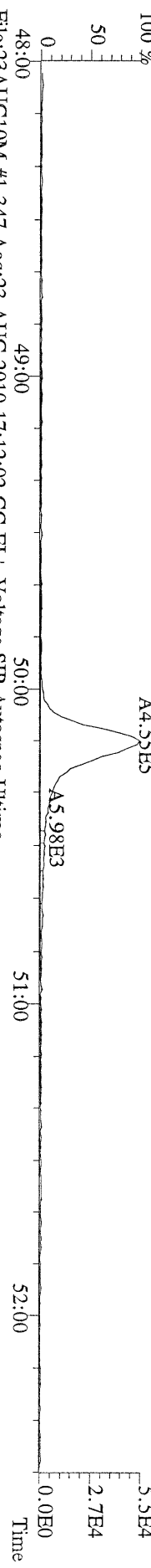
File:23AUG10M #1-477 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
 385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



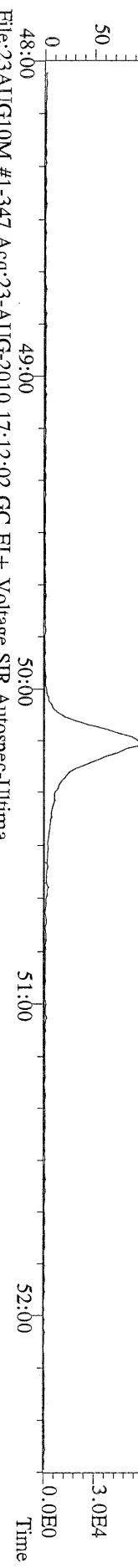
File:23AUG10M #1-477 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
 445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



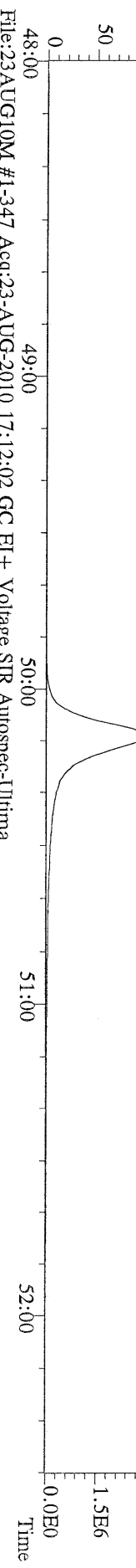
File:23AUG10M #1-347 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



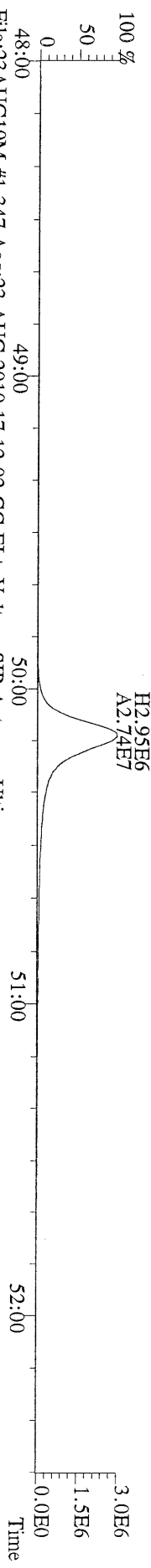
File:23AUG10M #1-347 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



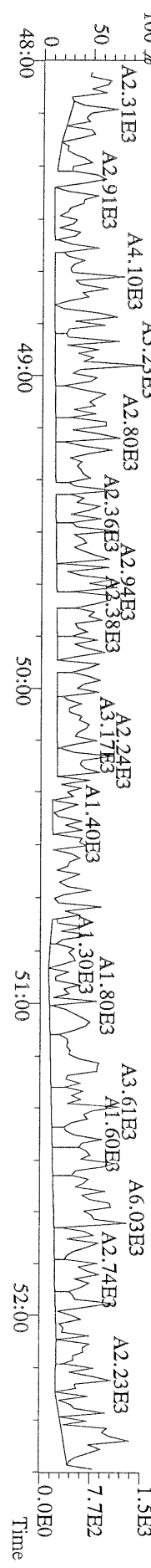
File:23AUG10M #1-347 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



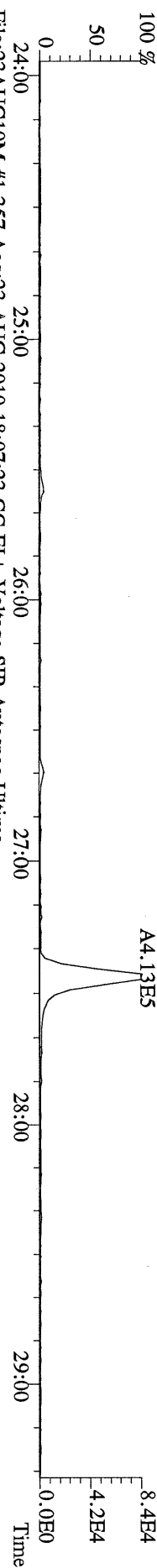
File:23AUG10M #1-347 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



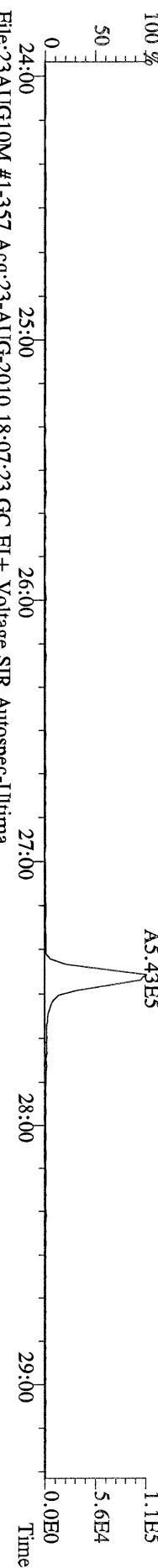
File:23AUG10M #1-347 Acq:23-AUG-2010 17:12:02 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M1 File Text:Frontier Analytical Laboratory



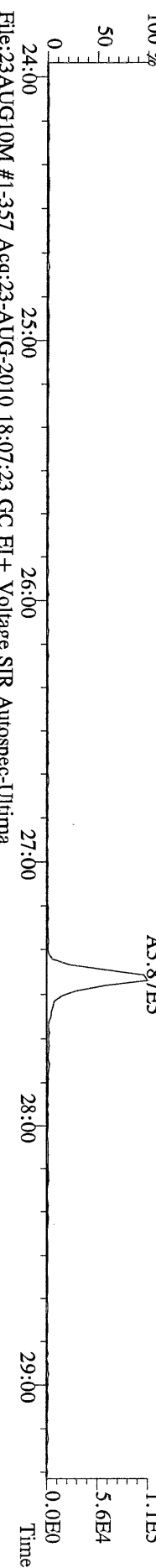
File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI + Voltage SIR Autospec-Ultima
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



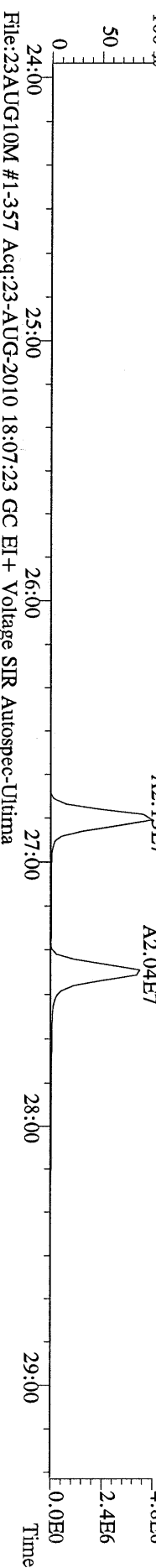
File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI + Voltage SIR Autospec-Ultima
321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI + Voltage SIR Autospec-Ultima
327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



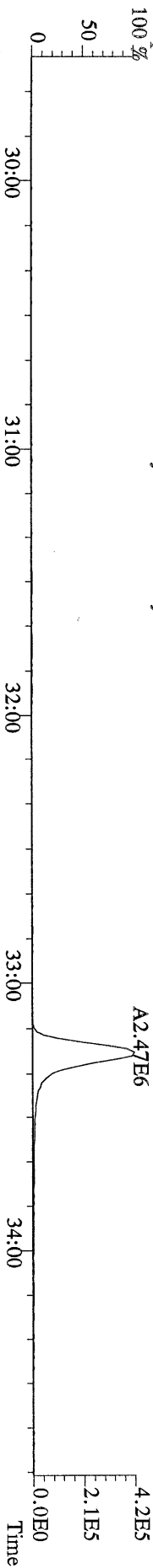
File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI + Voltage SIR Autospec-Ultima
331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



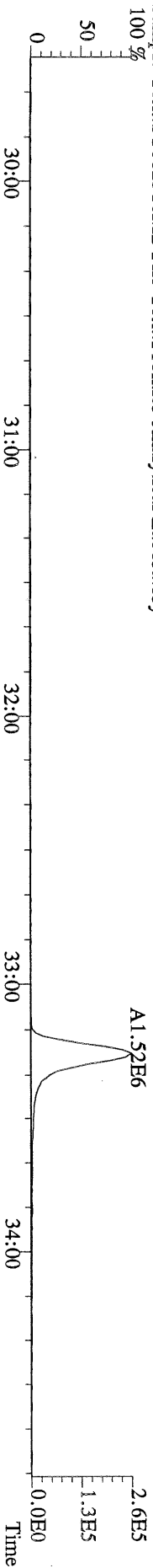
File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI + Voltage SIR Autospec-Ultima
333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



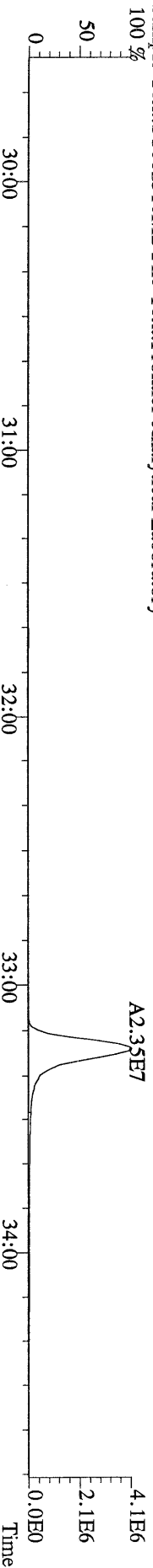
File:23AUG10M #1-412 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Ultima
355,8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory
100 %



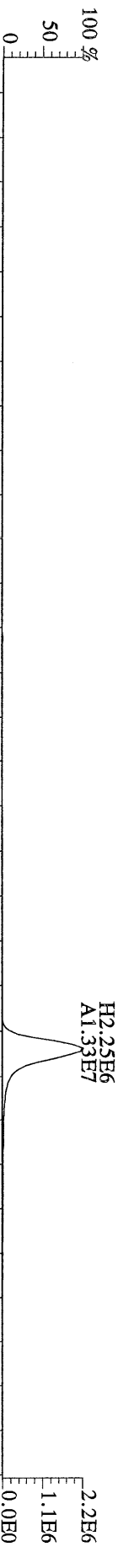
File:23AUG10M #1-412 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Ultima
357,8517 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory
100 %



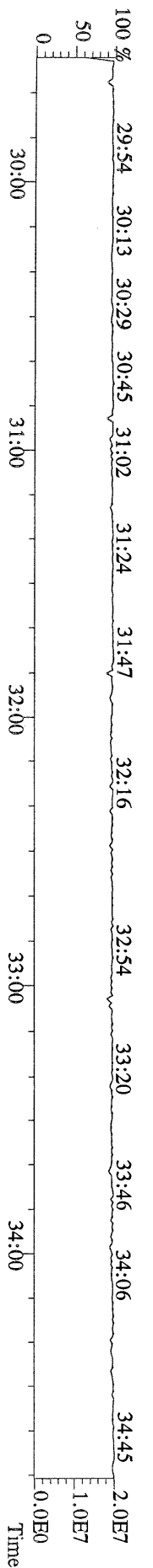
File:23AUG10M #1-412 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Ultima
367,8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory
100 %



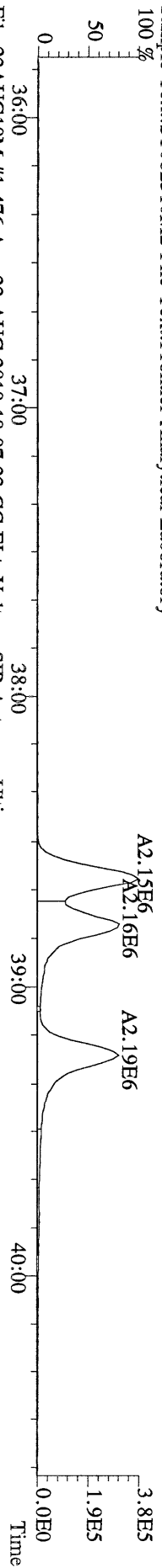
File:23AUG10M #1-412 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Ultima
369,8919 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



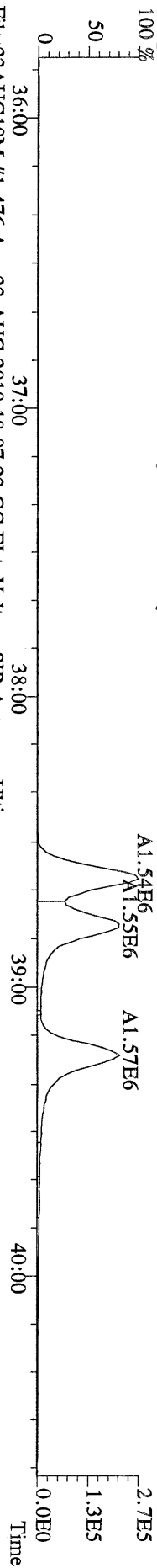
File:23AUG10M #1-412 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Ultima
366,9792 S:5 F:2 Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



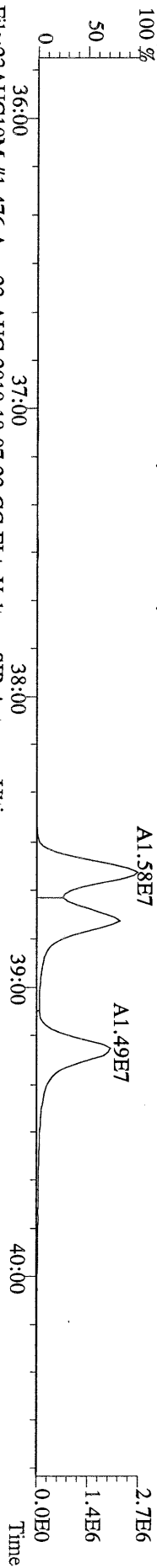
File:23AUG10M #1-476 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



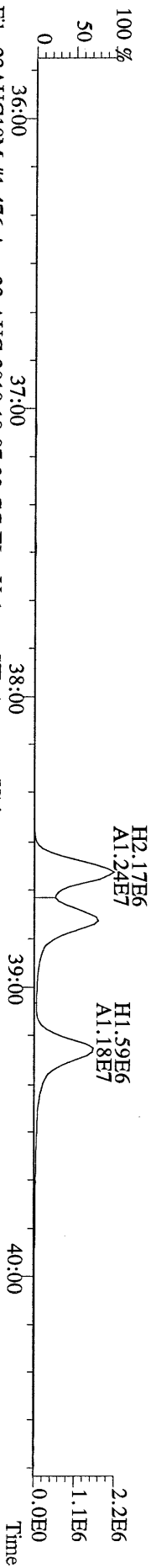
File:23AUG10M #1-476 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



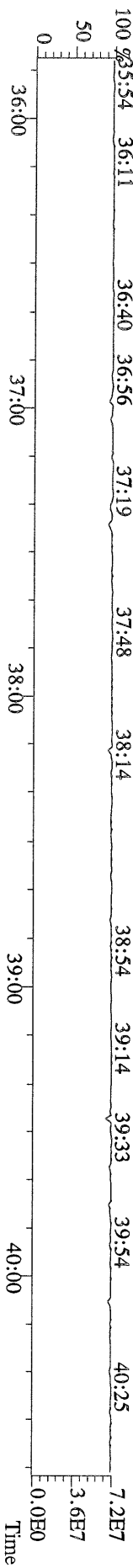
File:23AUG10M #1-476 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



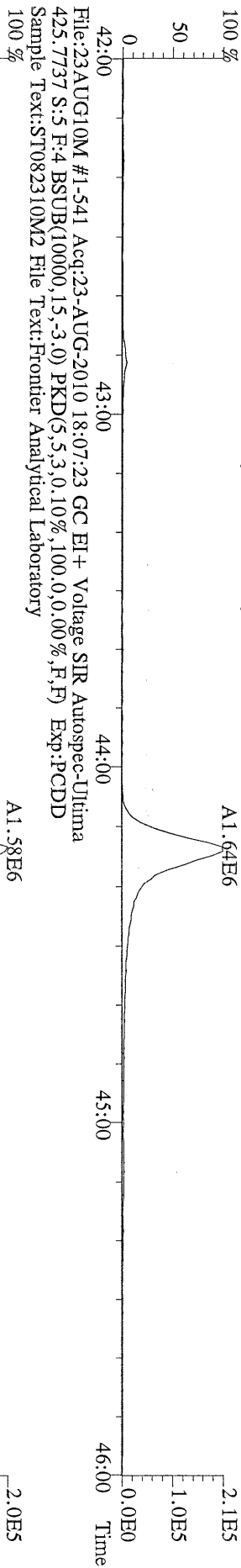
File:23AUG10M #1-476 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



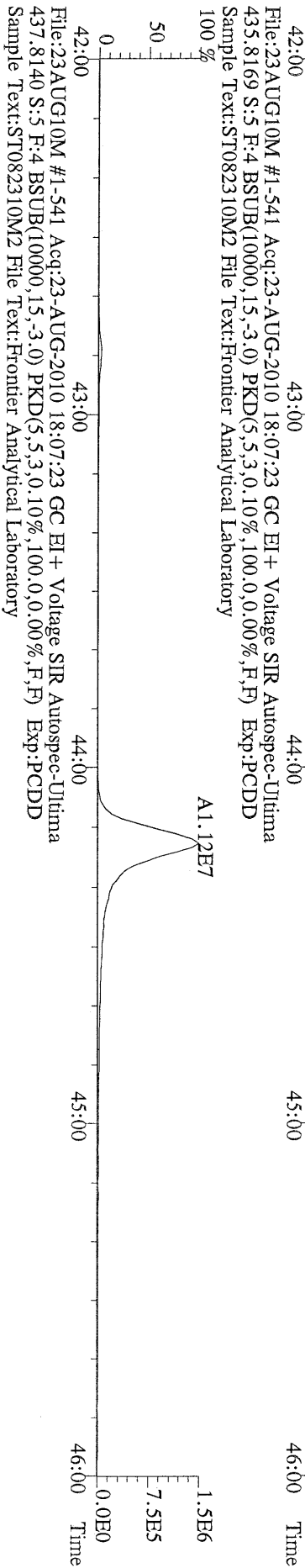
File:23AUG10M #1-476 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
380.9760 S:5 F:3 Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



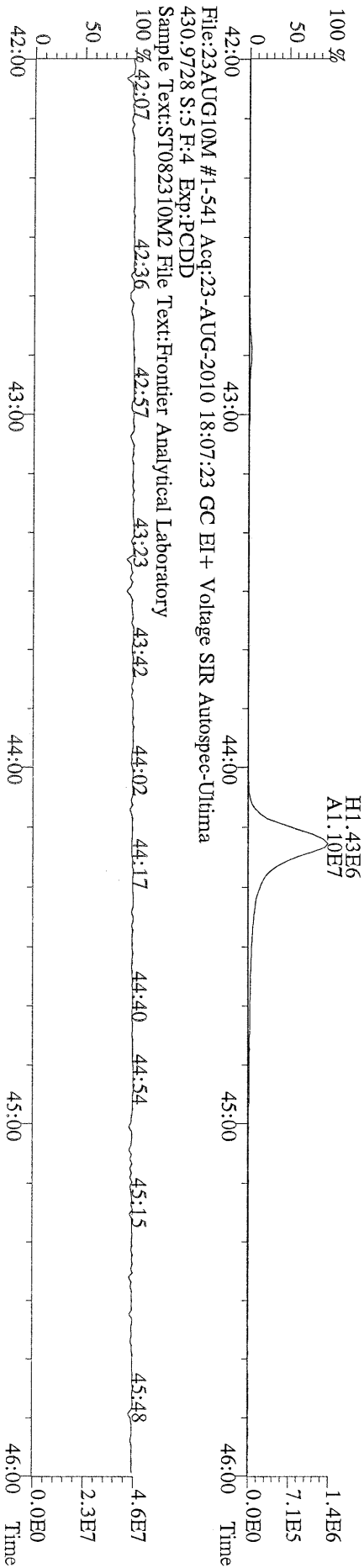
File:23AUG10M #1-541 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utlima
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory
100 %



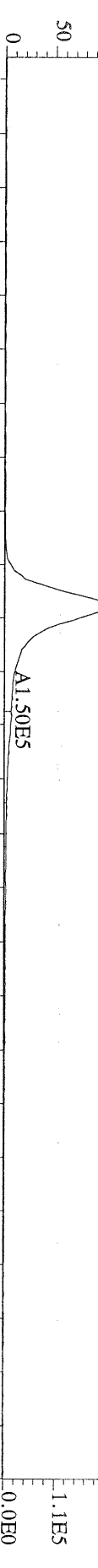
File:23AUG10M #1-541 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utlima
435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory
100 %



File:23AUG10M #1-541 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utlima
430.9728 S:5 F:4 Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory
100 %



File:23AUG10M #1-347 Acq:23-AUG-2010 18:07:23 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:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



File:23AUG10M #1-347 Acq:23-AUG-2010 18:07:23 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:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



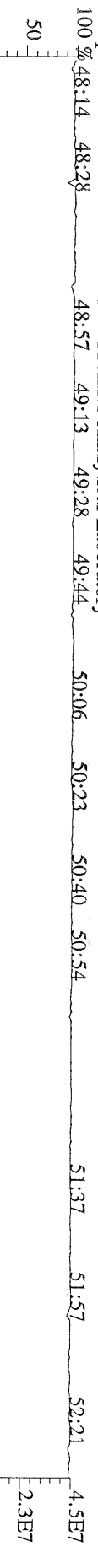
File:23AUG10M #1-347 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



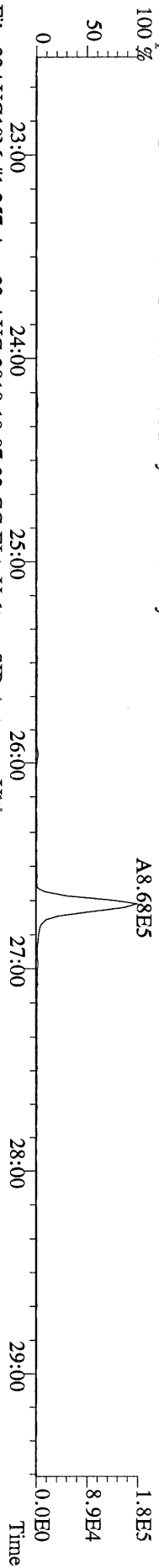
File:23AUG10M #1-347 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



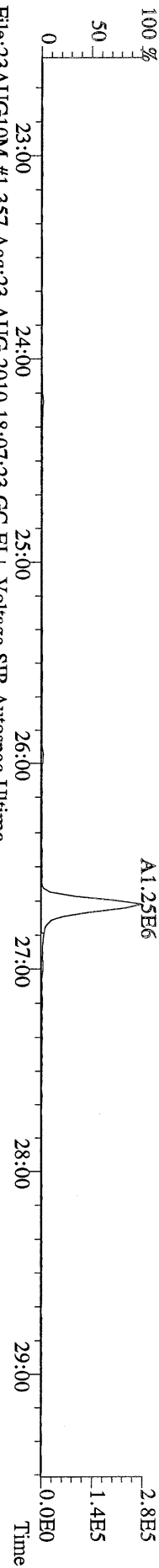
File:23AUG10M #1-347 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:5 F:5 Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



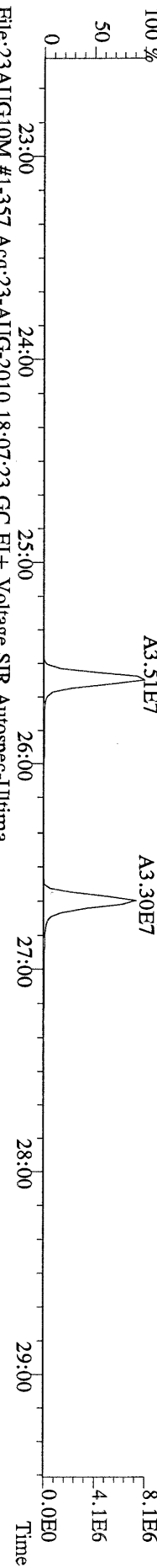
File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
 303.9016 S:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



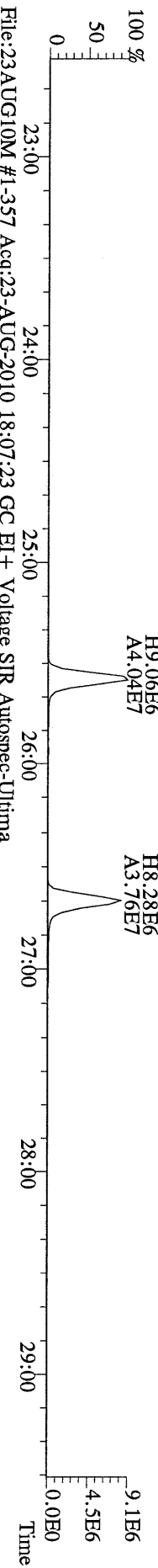
File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
 305.8987 S:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



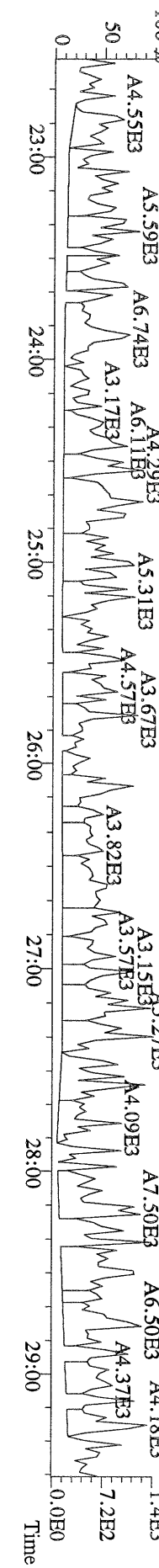
File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
 315.9419 S:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



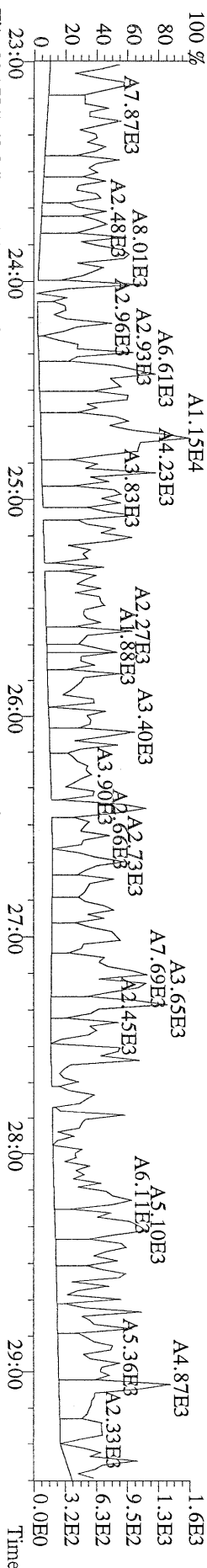
File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
 317.9389 S:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



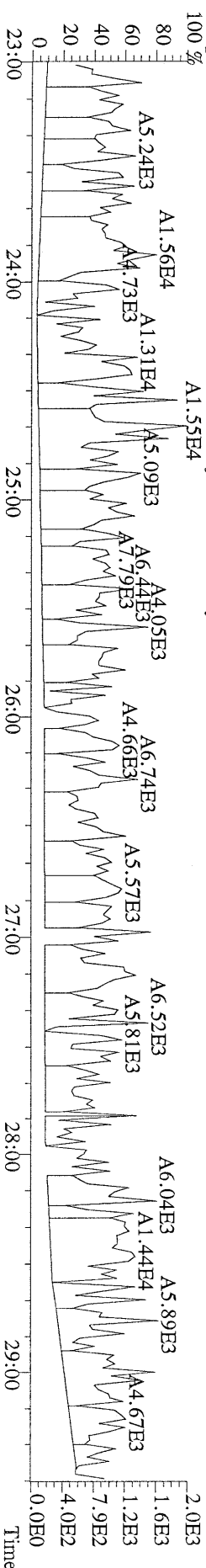
File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
 375.8364 S:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



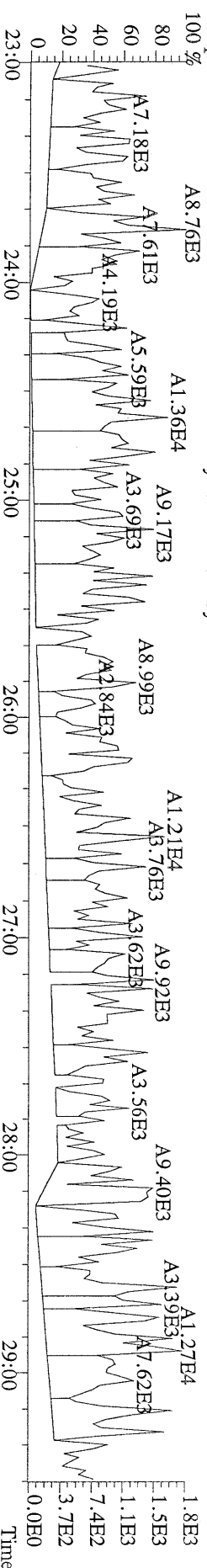
File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
 339.8597 S:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



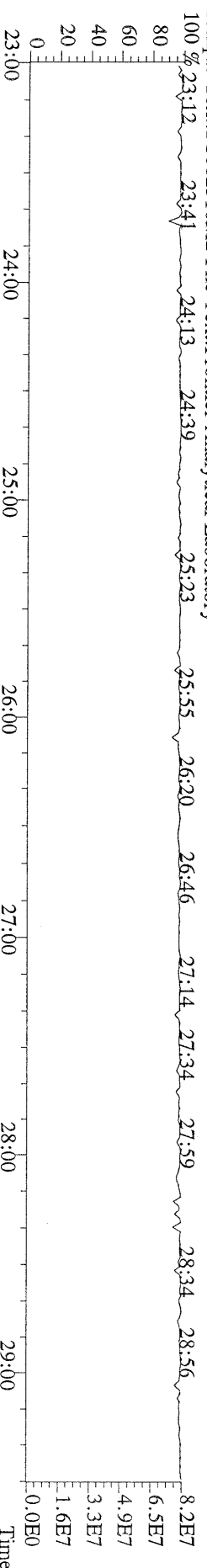
File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
 341.8568 S:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



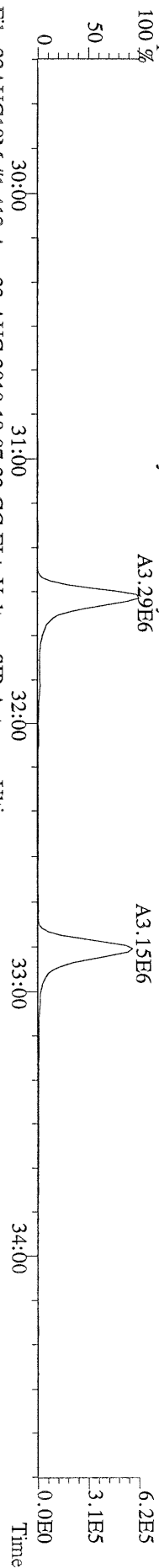
File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
 409.7974 S:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



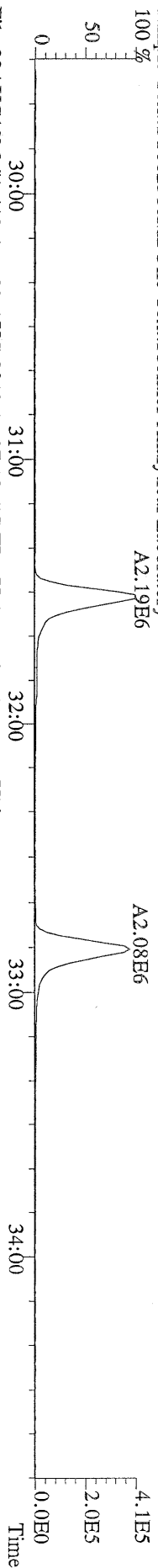
File:23AUG10M #1-357 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
 330.9792 S:5 Exp:PCDD
 Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



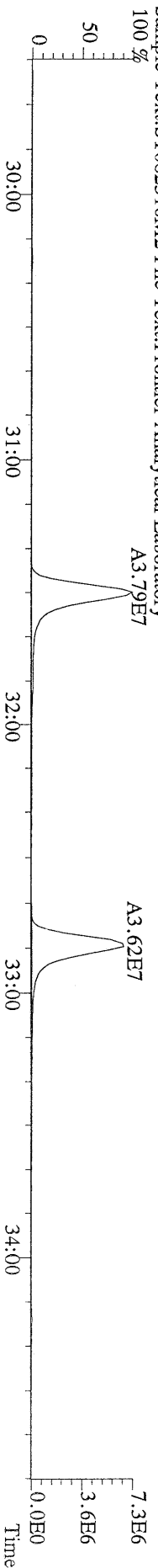
File:23AUG10M #1-412 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
339,8597 S:5 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



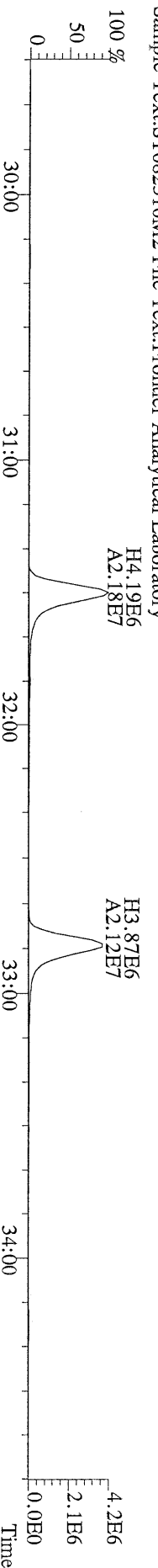
File:23AUG10M #1-412 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
341,8568 S:5 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



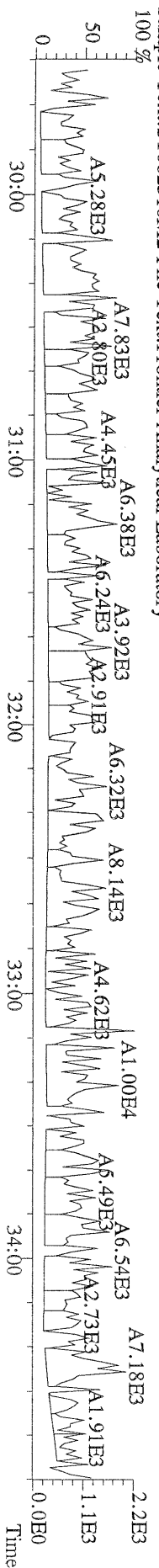
File:23AUG10M #1-412 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
351,9000 S:5 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



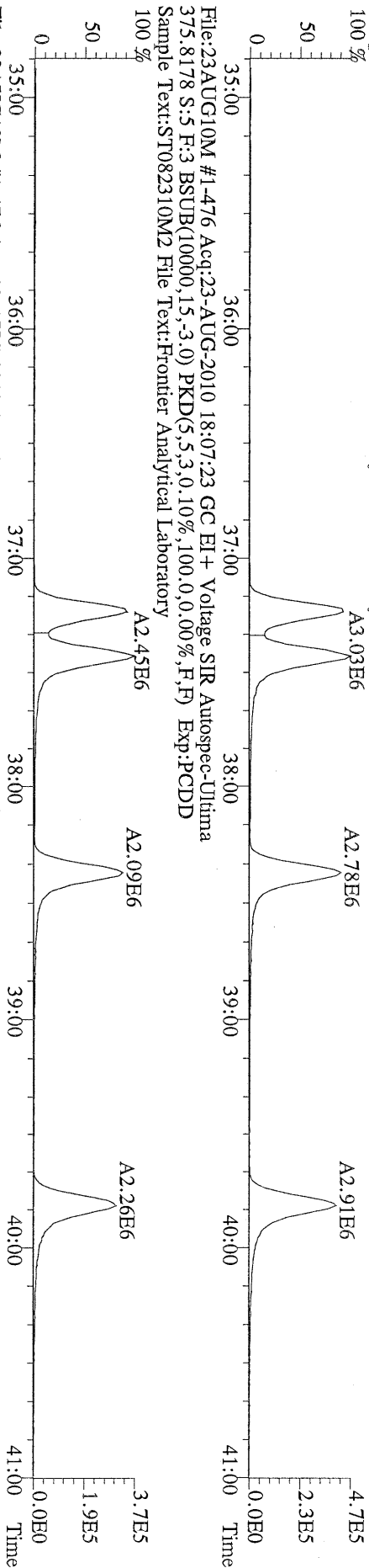
File:23AUG10M #1-412 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
353,8970 S:5 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



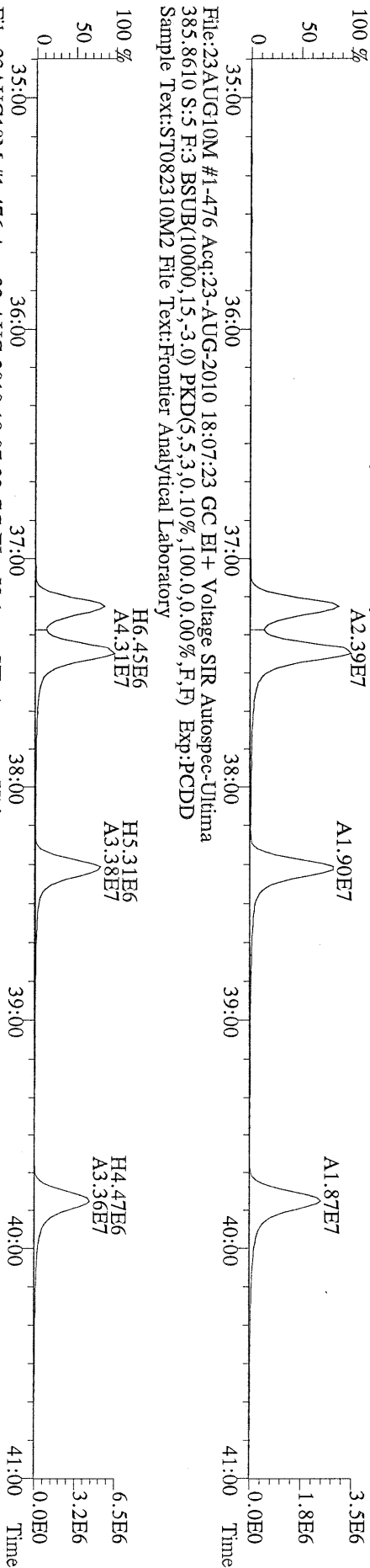
File:23AUG10M #1-412 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
409,7974 S:5 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



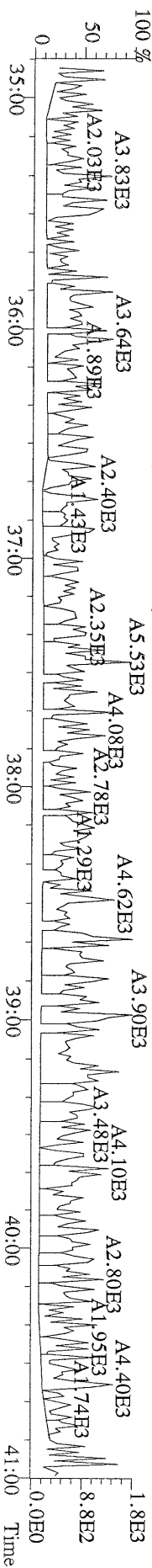
File:23AUG10M #1-476 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
373.8207 S:5 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



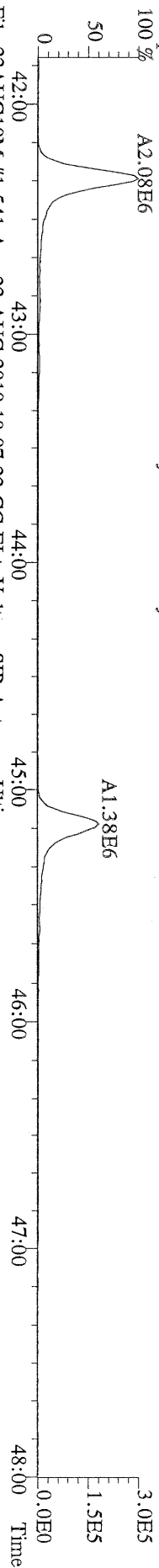
File:23AUG10M #1-476 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
383.8639 S:5 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



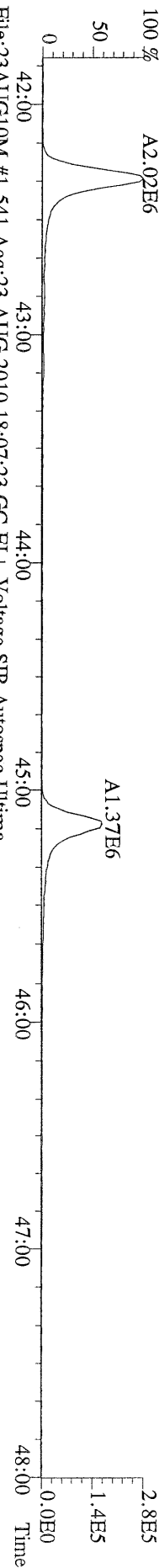
File:23AUG10M #1-476 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
445.7555 S:5 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



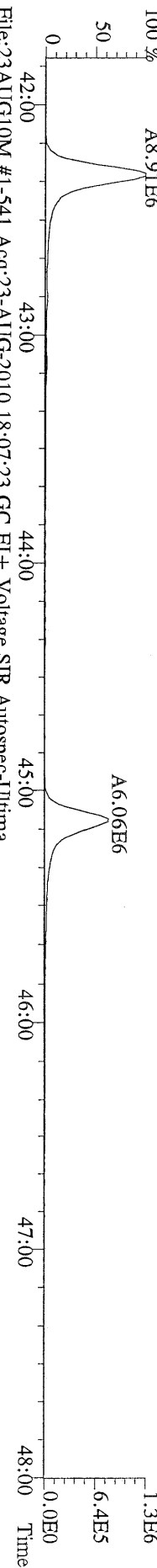
File:23AUG10M #1-541 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



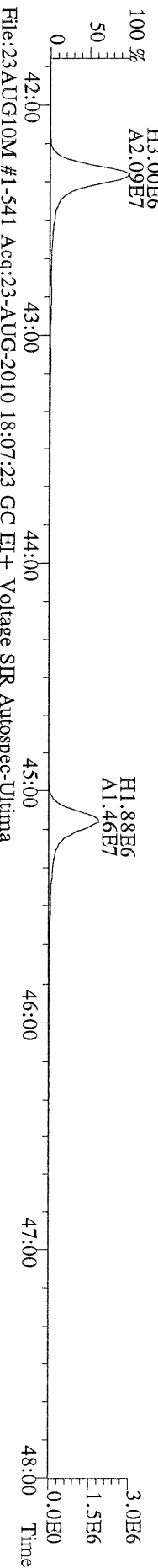
File:23AUG10M #1-541 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



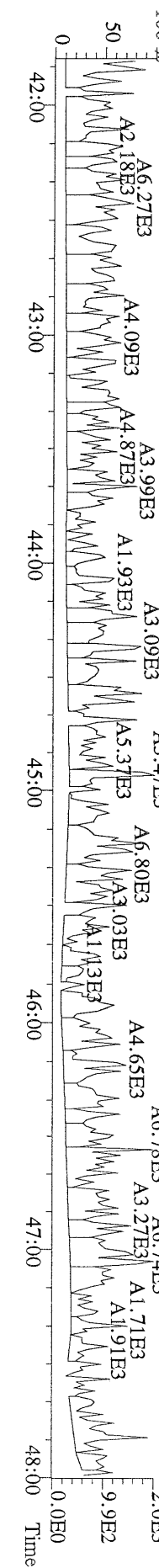
File:23AUG10M #1-541 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



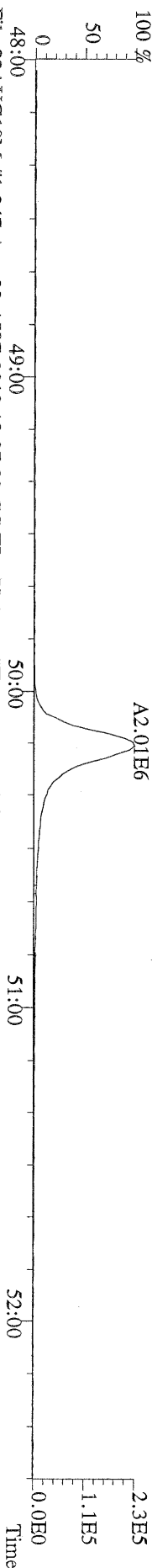
File:23AUG10M #1-541 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



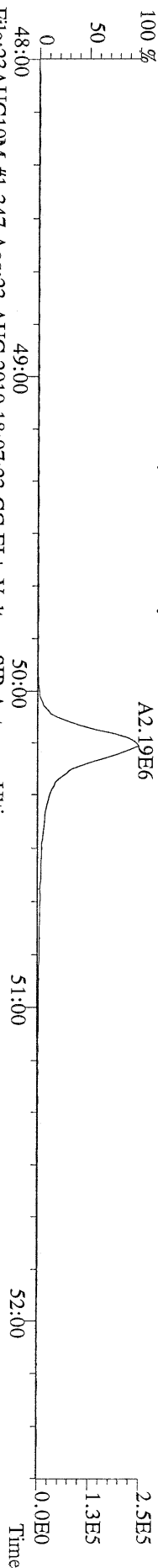
File:23AUG10M #1-541 Acq:23-AUG-2010 18:07:23 GC EI+ Voltage SIR Autospec-Utima
479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



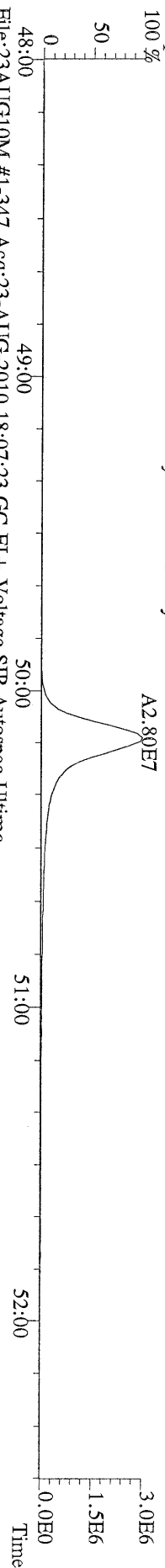
File:23AUG10M #1-347 Acq:23-AUG-2010 18:07:23 GC BI+ Voltage SIR Autospec-Ultima
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



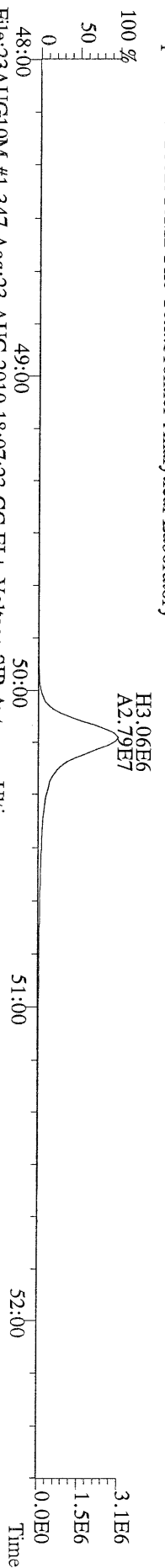
File:23AUG10M #1-347 Acq:23-AUG-2010 18:07:23 GC BI+ Voltage SIR Autospec-Ultima
443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



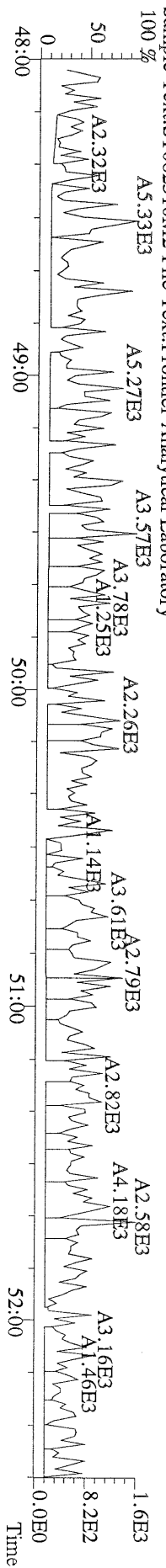
File:23AUG10M #1-347 Acq:23-AUG-2010 18:07:23 GC BI+ Voltage SIR Autospec-Ultima
453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



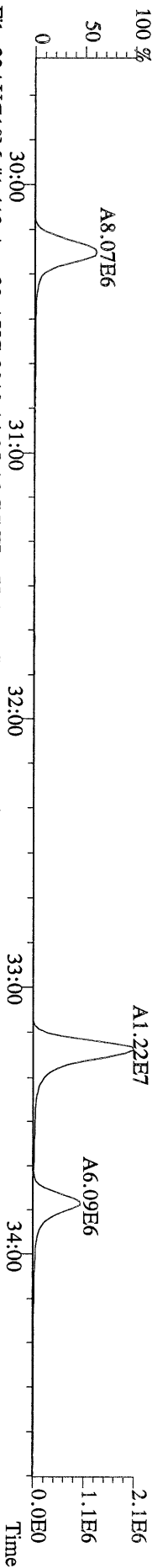
File:23AUG10M #1-347 Acq:23-AUG-2010 18:07:23 GC BI+ Voltage SIR Autospec-Ultima
455.7801 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



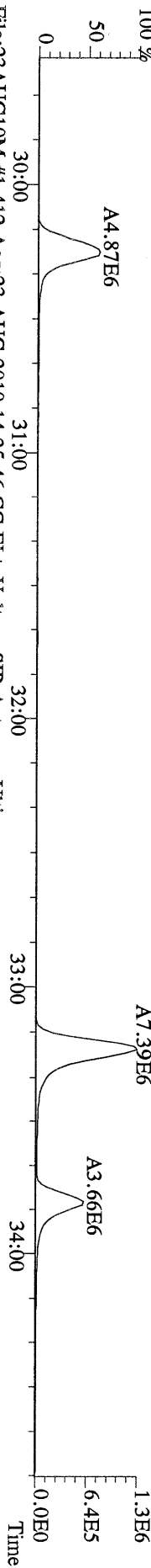
File:23AUG10M #1-347 Acq:23-AUG-2010 18:07:23 GC BI+ Voltage SIR Autospec-Ultima
513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M2 File Text:Frontier Analytical Laboratory



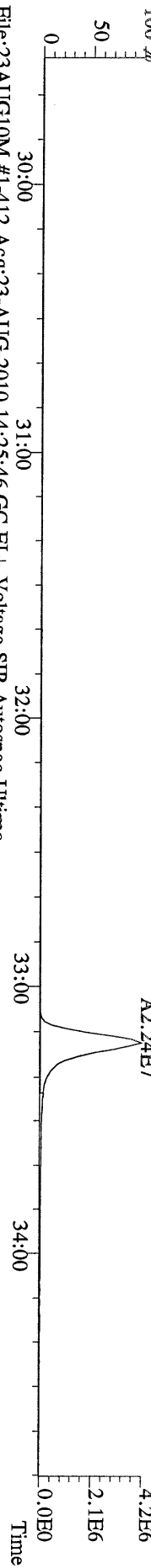
File:23AUG10M #1-412 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



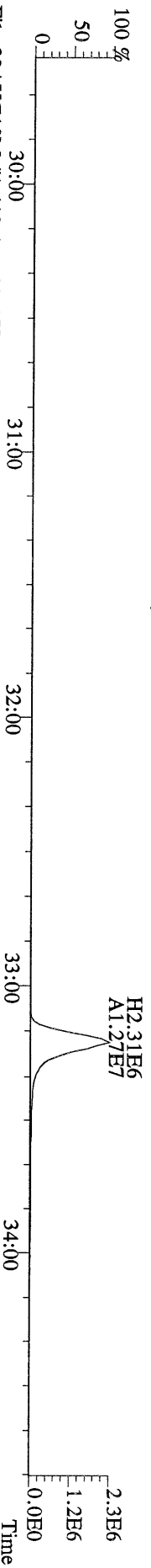
File:23AUG10M #1-412 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
357.8517 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



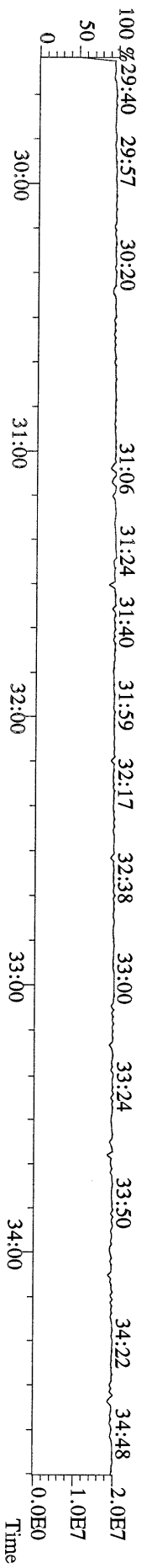
File:23AUG10M #1-412 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
367.8949 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



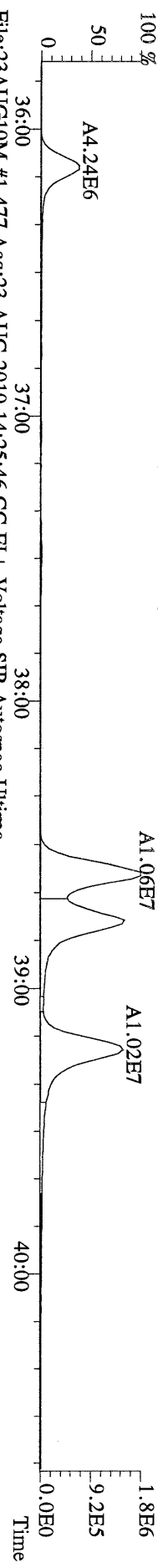
File:23AUG10M #1-412 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
369.8919 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



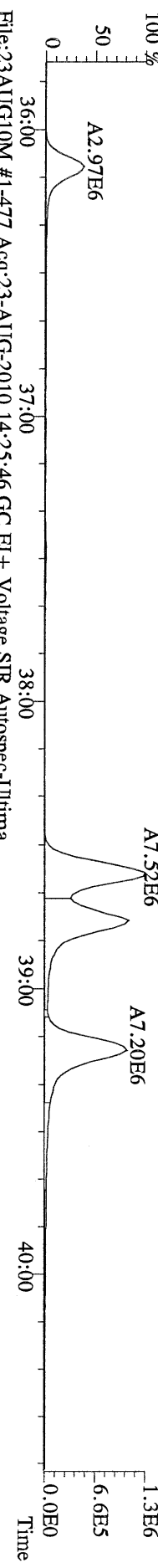
File:23AUG10M #1-412 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
366.9792 F:2 Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



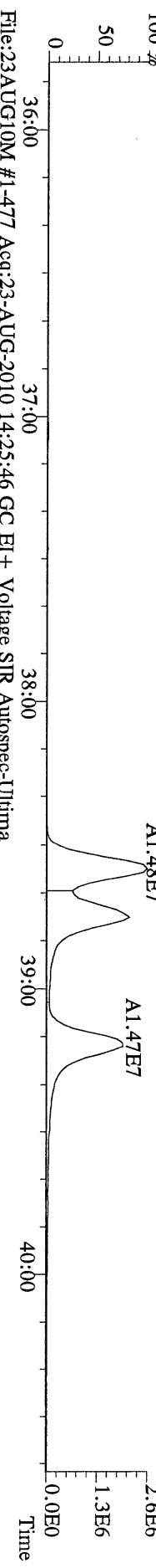
File:23AUG10M #1-477 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



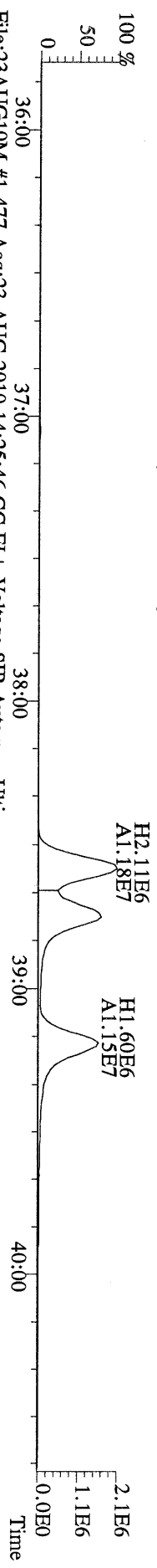
File:23AUG10M #1-477 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
391.8127 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



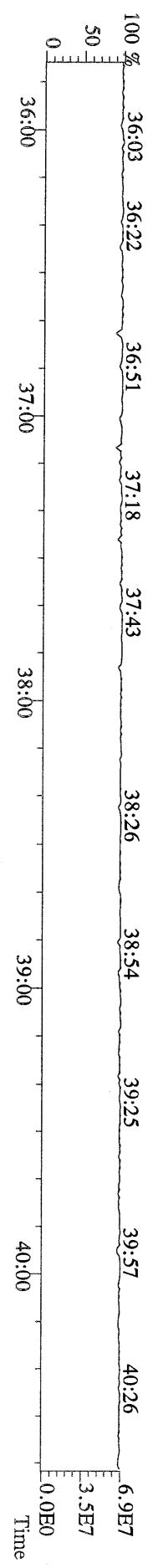
File:23AUG10M #1-477 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



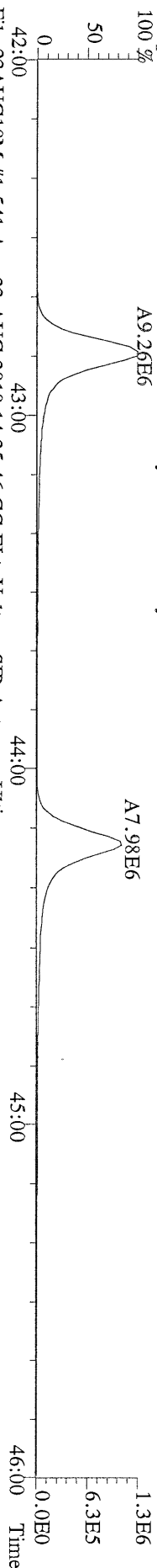
File:23AUG10M #1-477 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
403.8530 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



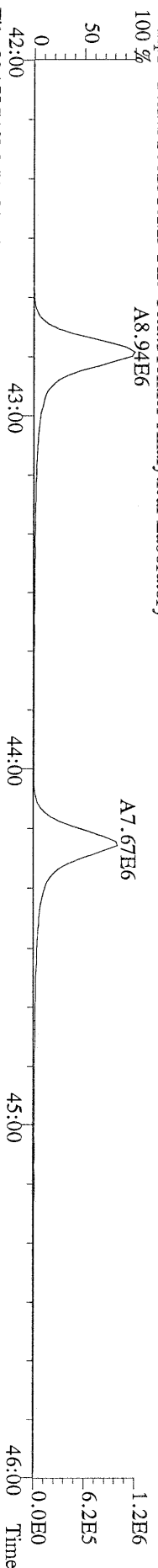
File:23AUG10M #1-477 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
380.9760 F:3 Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



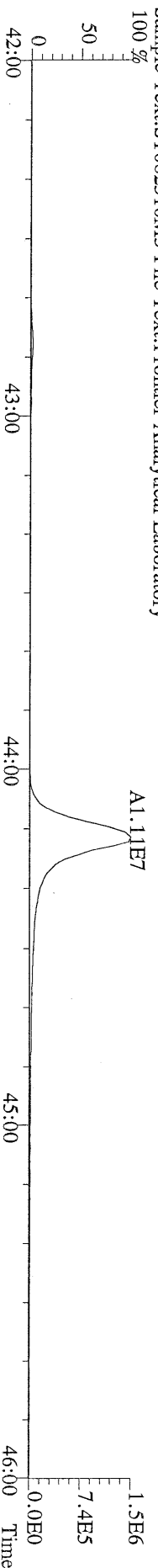
File:23AUG10M #1-541 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Utima
423.7767 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



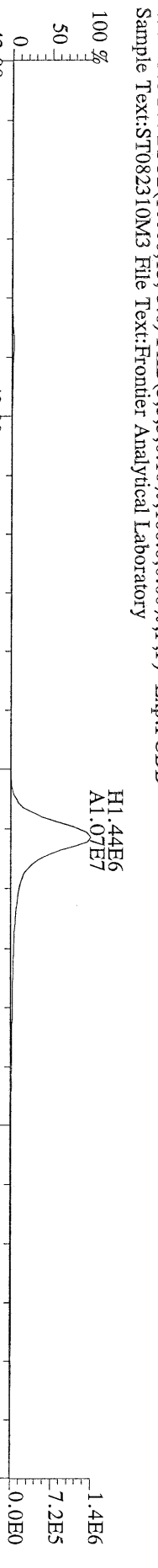
File:23AUG10M #1-541 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Utima
425.7737 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



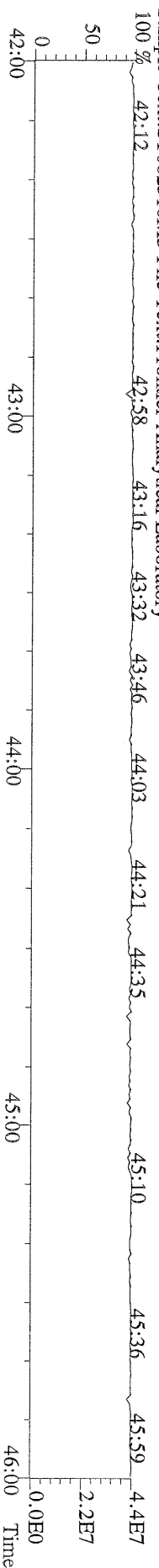
File:23AUG10M #1-541 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Utima
435.8169 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



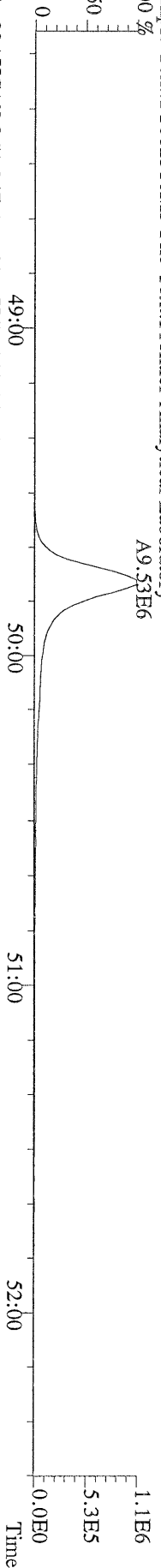
File:23AUG10M #1-541 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Utima
437.8140 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



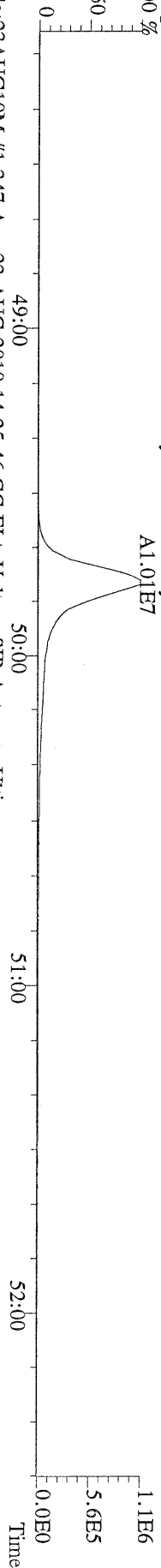
File:23AUG10M #1-541 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Utima
430.9728 F:4 Exp:PCDD
Sample Text:ST082310M3 File Text:Frontier Analytical Laboratory



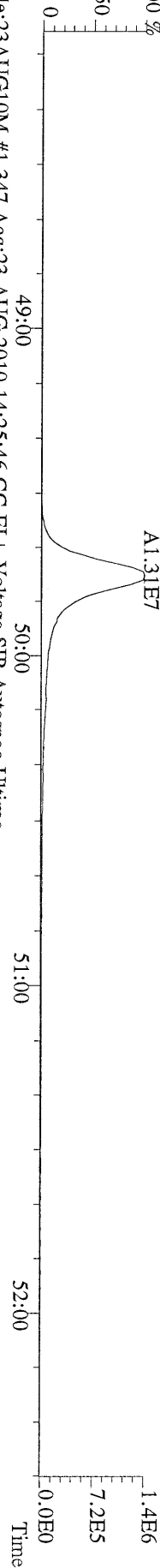
File:23AUG10M #1-347 Acq:23-AUG-2010 14:25:46 GC BI + Voltage SIR Autospec-Ultima
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0) Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



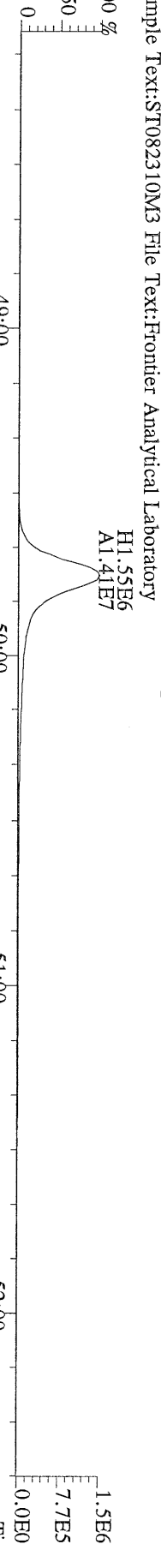
File:23AUG10M #1-347 Acq:23-AUG-2010 14:25:46 GC BI + Voltage SIR Autospec-Ultima
459.7348 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0) Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



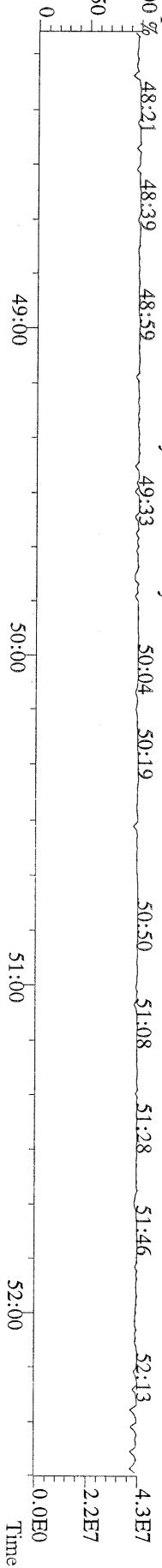
File:23AUG10M #1-347 Acq:23-AUG-2010 14:25:46 GC BI + Voltage SIR Autospec-Ultima
469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0) Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



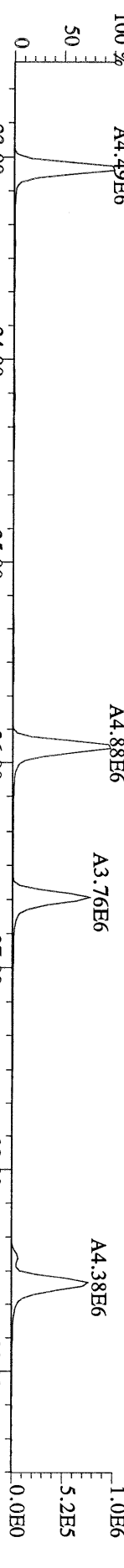
File:23AUG10M #1-347 Acq:23-AUG-2010 14:25:46 GC BI + Voltage SIR Autospec-Ultima
471.7750 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0) Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



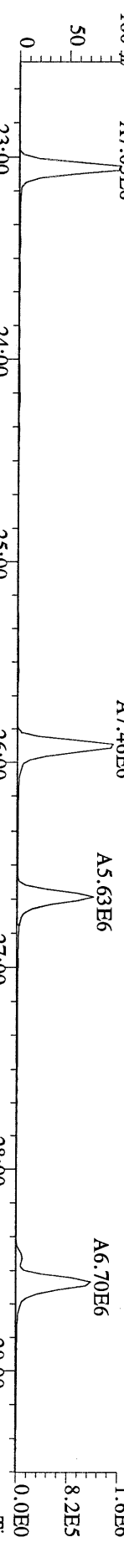
File:23AUG10M #1-347 Acq:23-AUG-2010 14:25:46 GC BI + Voltage SIR Autospec-Ultima
454.9728 F:5 Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



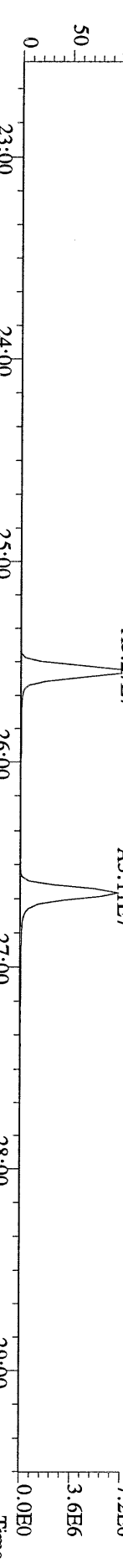
File:23AUG10M #1-356 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:P:PCDD
Sample Text::ST082310M3 File Text:Frontier Analytical Laboratory



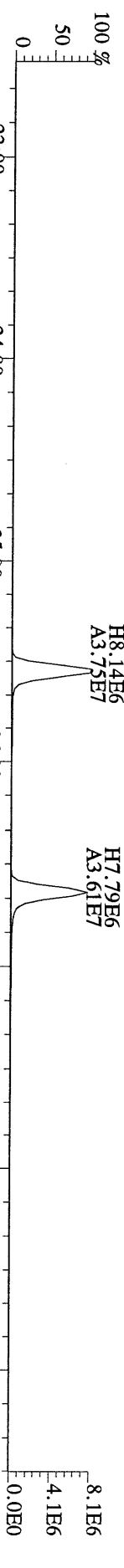
File:23AUG10M #1-356 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:P:PCDD
Sample Text::ST082310M3 File Text:Frontier Analytical Laboratory



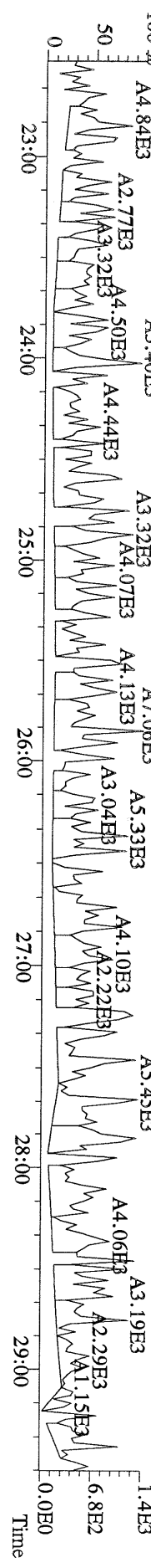
File:23AUG10M #1-356 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:P:PCDD
Sample Text::ST082310M3 File Text:Frontier Analytical Laboratory



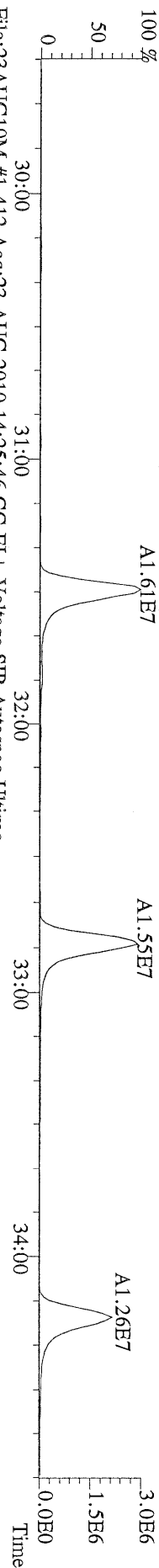
File:23AUG10M #1-356 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:P:PCDD
Sample Text::ST082310M3 File Text:Frontier Analytical Laboratory



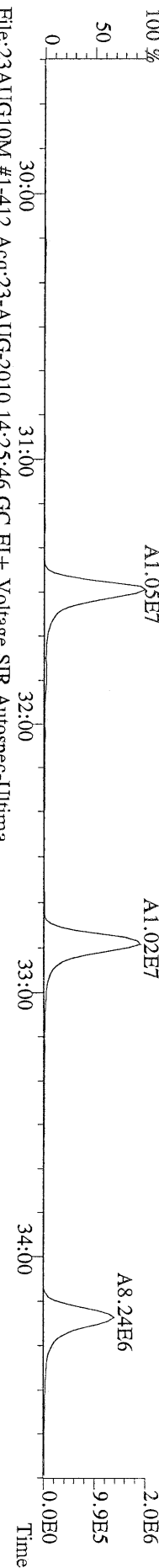
File:23AUG10M #1-356 Acq:23-AUG-2010 14:25:46 GC EI+ Voltage SIR Autospec-Ultima
375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:P:PCDD
Sample Text::ST082310M3 File Text:Frontier Analytical Laboratory



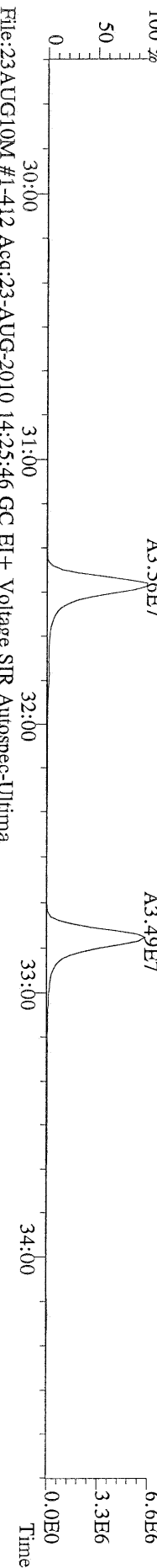
File:23AUG10M #1-412 Acq:23-AUG-2010 14:25:46 GC BI+ Voltage SIR Autospec-Ultima
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00% ,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



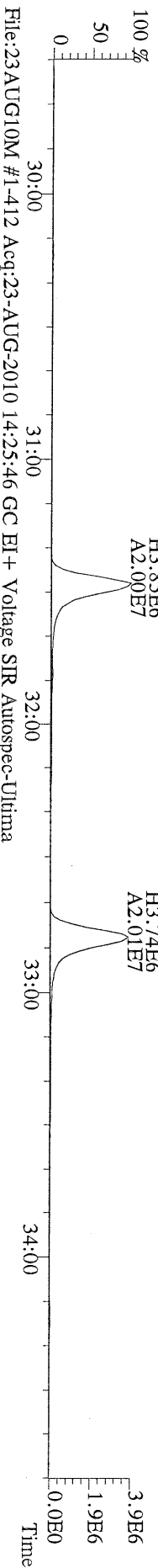
File:23AUG10M #1-412 Acq:23-AUG-2010 14:25:46 GC BI+ Voltage SIR Autospec-Ultima
341.8568 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00% ,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



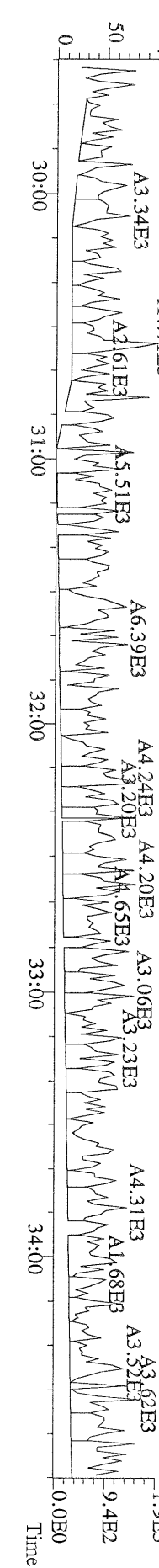
File:23AUG10M #1-412 Acq:23-AUG-2010 14:25:46 GC BI+ Voltage SIR Autospec-Ultima
351.9000 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00% ,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



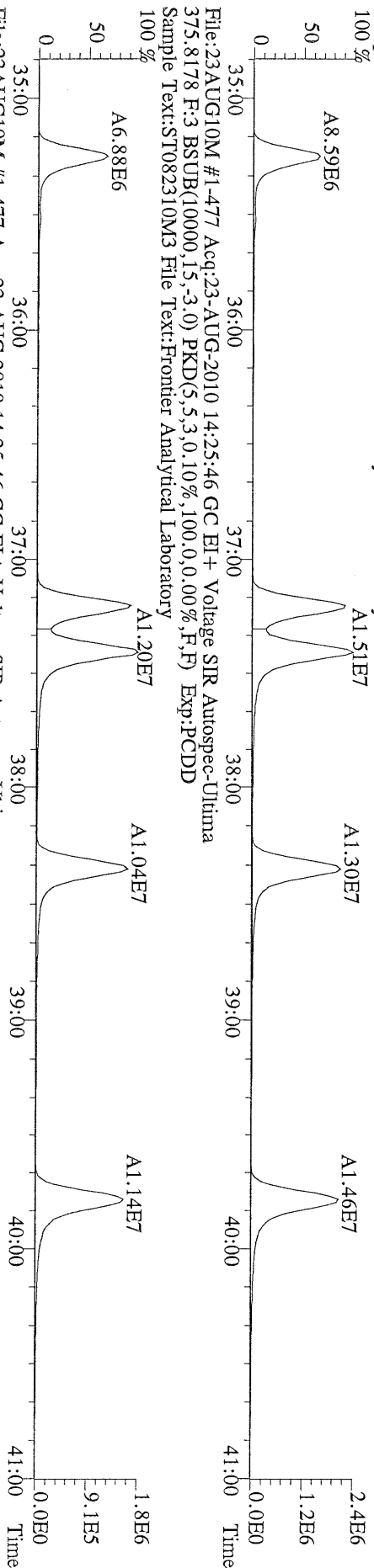
File:23AUG10M #1-412 Acq:23-AUG-2010 14:25:46 GC BI+ Voltage SIR Autospec-Ultima
353.8970 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00% ,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



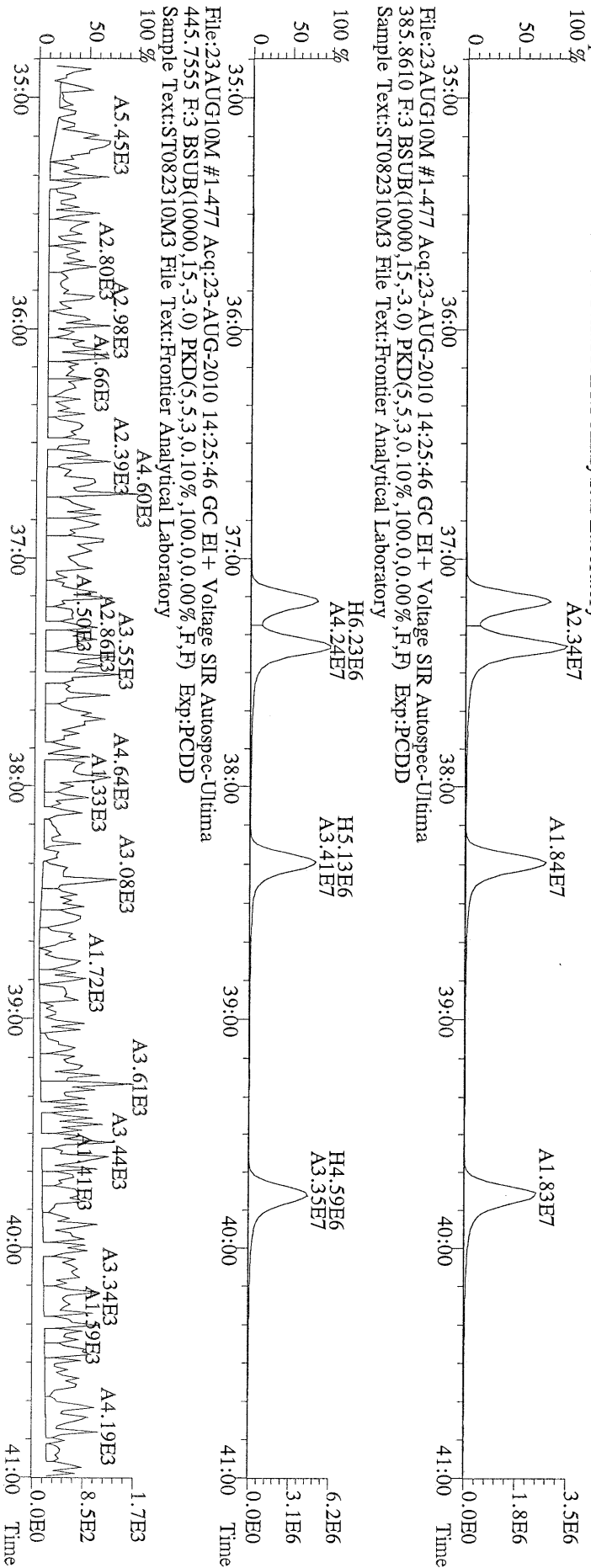
File:23AUG10M #1-412 Acq:23-AUG-2010 14:25:46 GC BI+ Voltage SIR Autospec-Ultima
409.7974 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00% ,F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



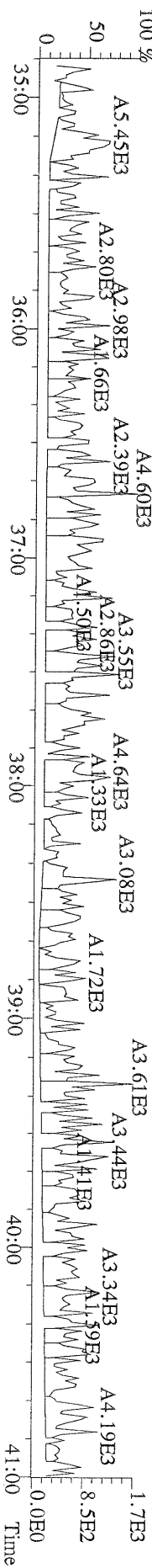
File:23AUG10M #1-477 Acq:23-AUG-2010 14:25:46 GC EI + Voltage SIR Autospec-Ultima
373.8207 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,100,0.0,0.00% F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



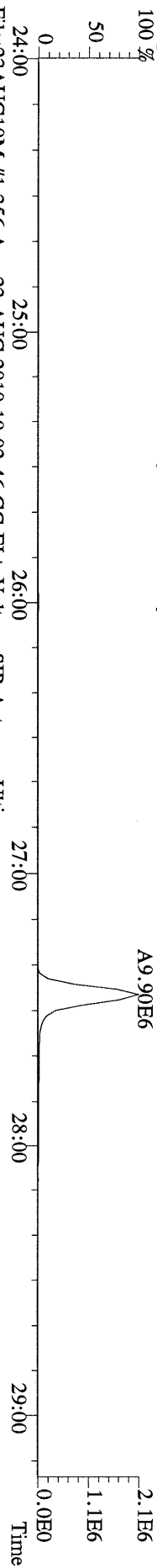
File:23AUG10M #1-477 Acq:23-AUG-2010 14:25:46 GC EI + Voltage SIR Autospec-Ultima
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,100,0.0,0.00% F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



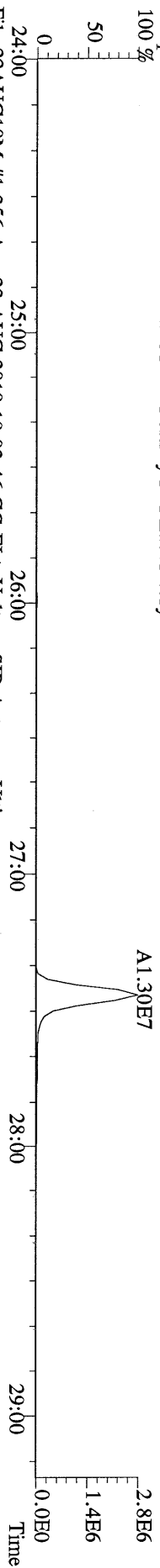
File:23AUG10M #1-477 Acq:23-AUG-2010 14:25:46 GC EI + Voltage SIR Autospec-Ultima
445.7555 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,100,0.0,0.00% F,F) Exp:PCDD
Sample Text:ST082310M3 File Text:Fronier Analytical Laboratory



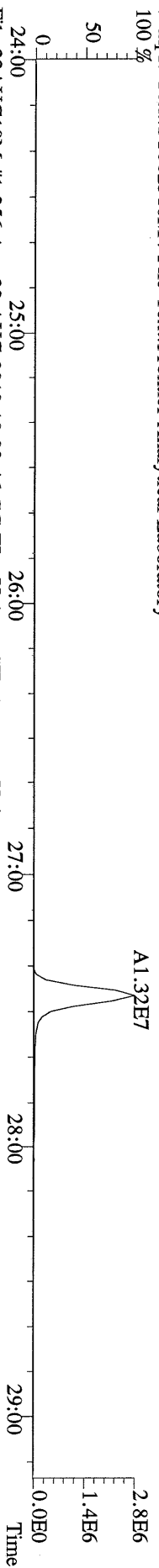
File:23AUG10M #1-356 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Utima
319,8965 S:6 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



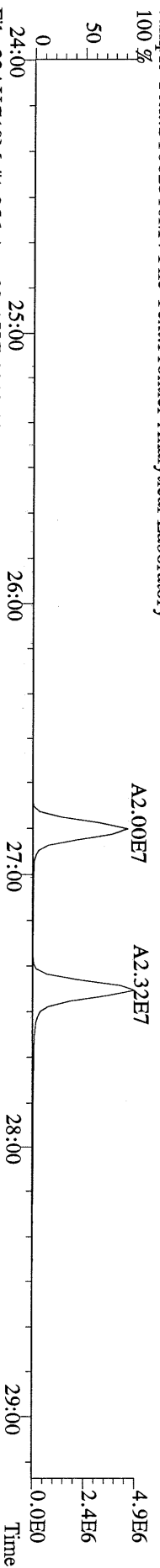
File:23AUG10M #1-356 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Utima
321,8936 S:6 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



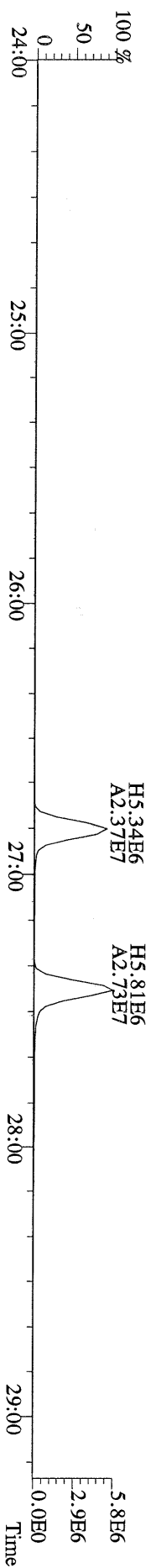
File:23AUG10M #1-356 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Utima
327,8847 S:6 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



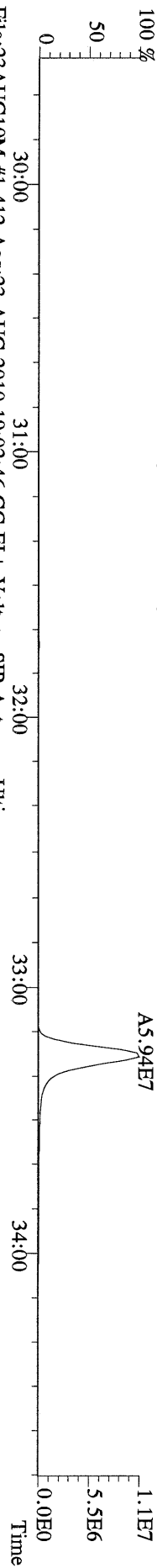
File:23AUG10M #1-356 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Utima
331,9368 S:6 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



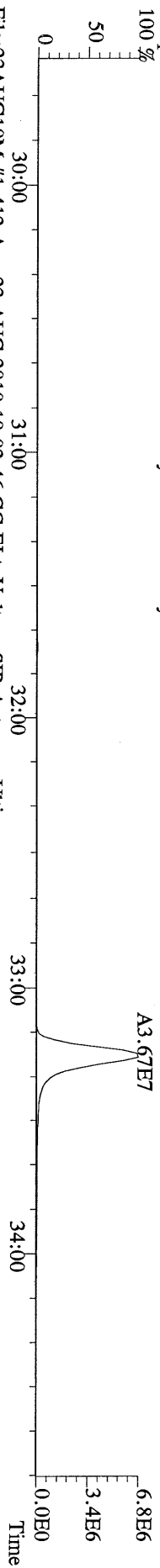
File:23AUG10M #1-356 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Utima
333,9339 S:6 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



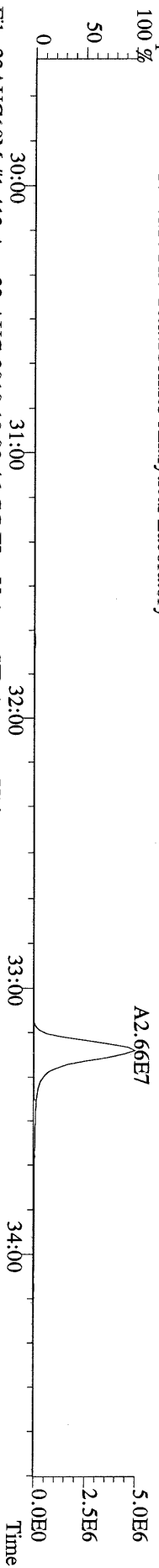
File:23AUG10M #1-412 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



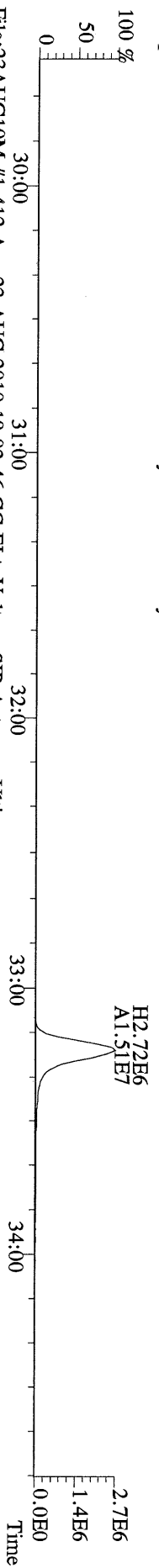
File:23AUG10M #1-412 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



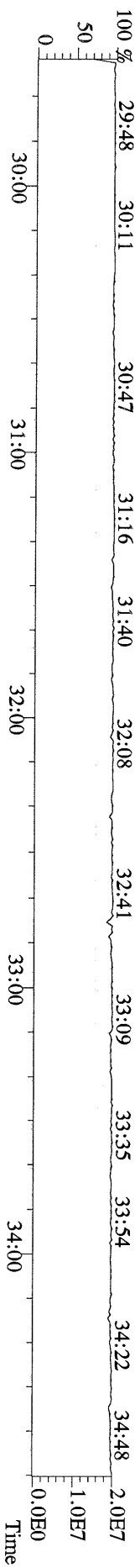
File:23AUG10M #1-412 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



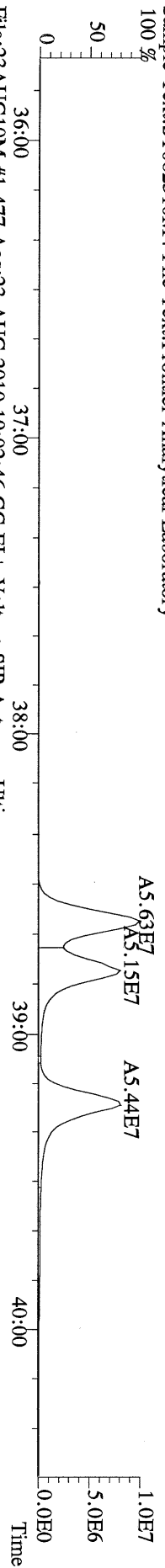
File:23AUG10M #1-412 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



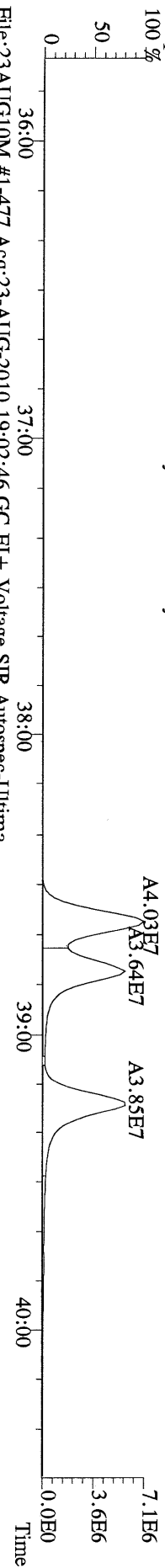
File:23AUG10M #1-412 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:6 F:2 Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



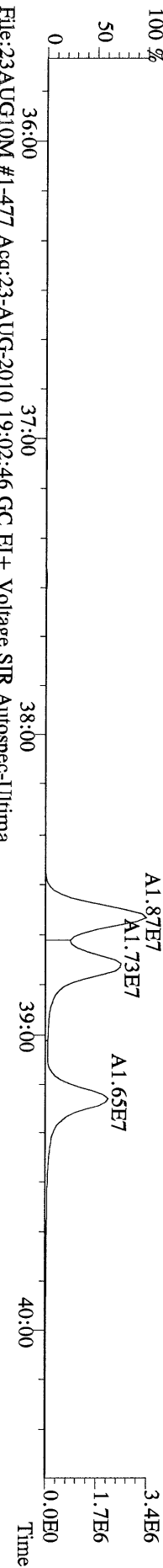
File:23AUG10M #1-477 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:6 F:3 BSUB(10000,15,-3.0) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



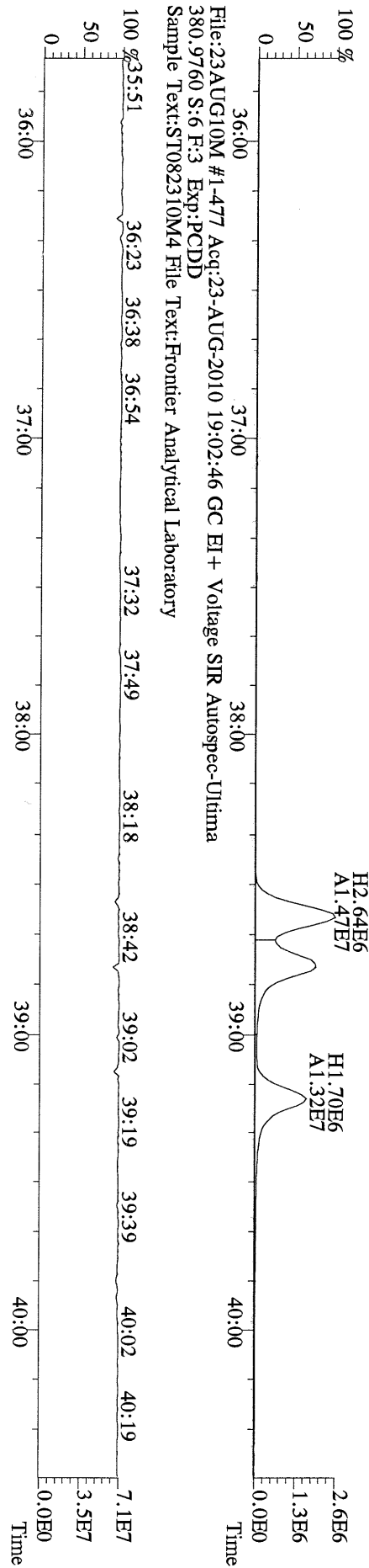
File:23AUG10M #1-477 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



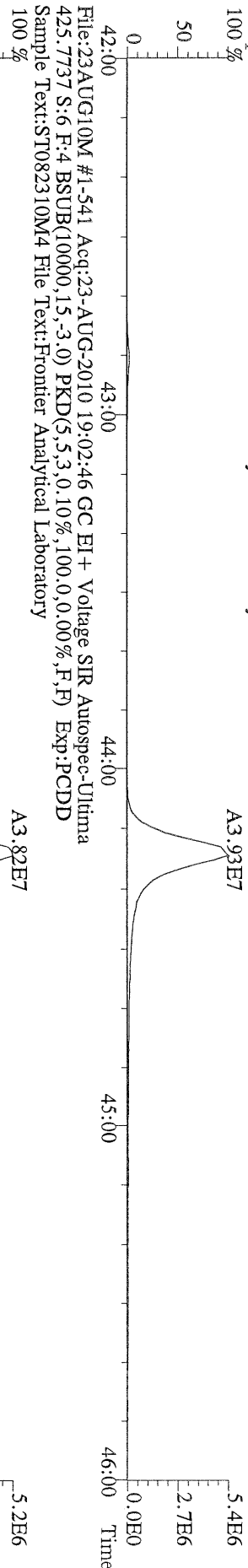
File:23AUG10M #1-477 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



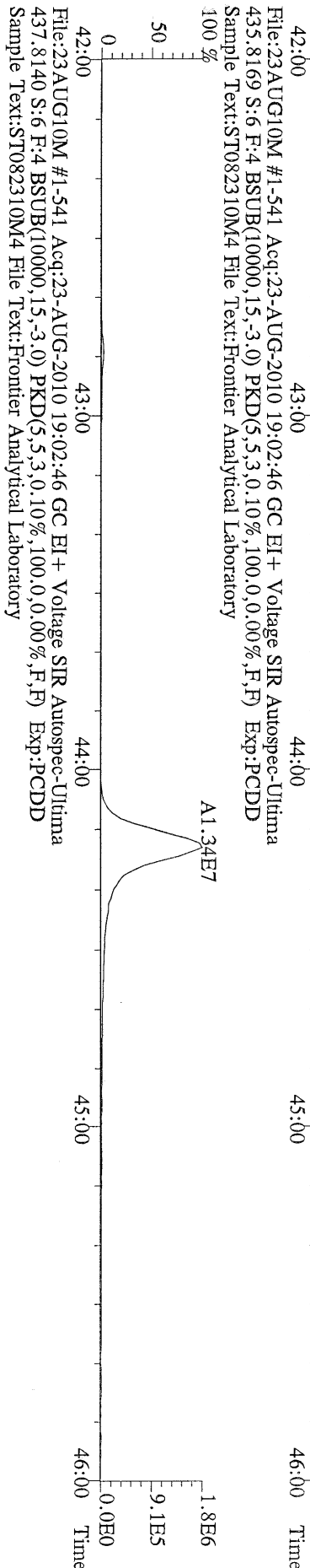
File:23AUG10M #1-477 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:6 F:3 Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



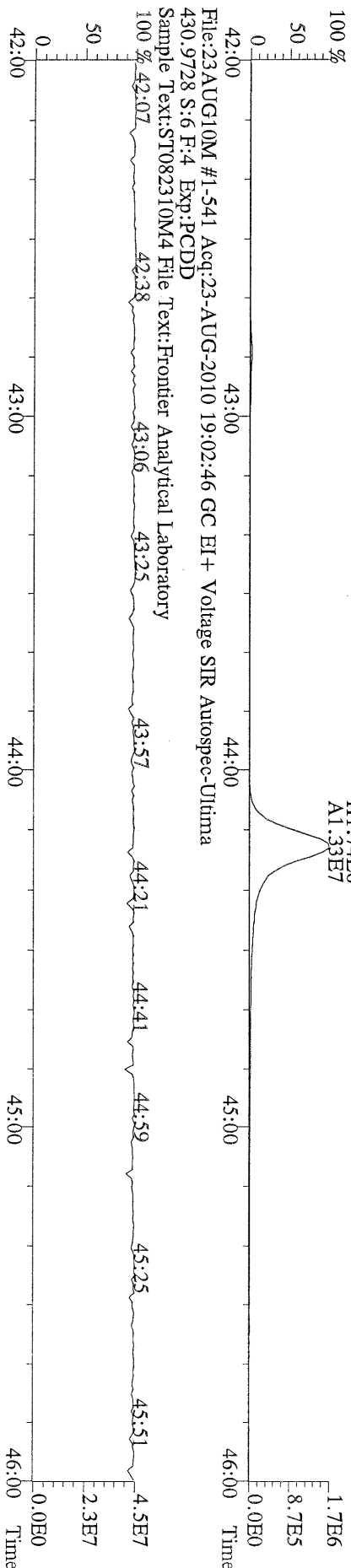
File:23AUG10M #1-541 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



File:23AUG10M #1-541 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



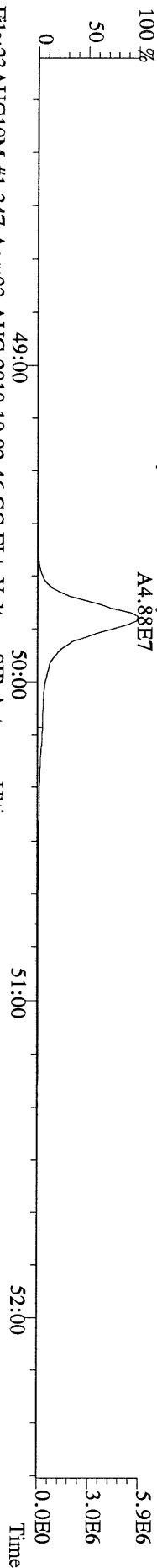
File:23AUG10M #1-541 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



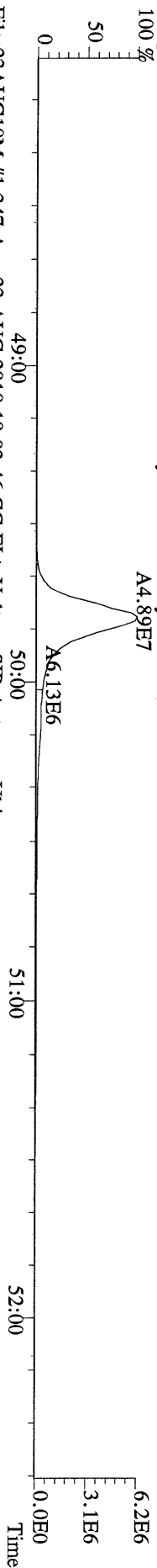
File:23AUG10M #1-541 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:6 F:4 Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



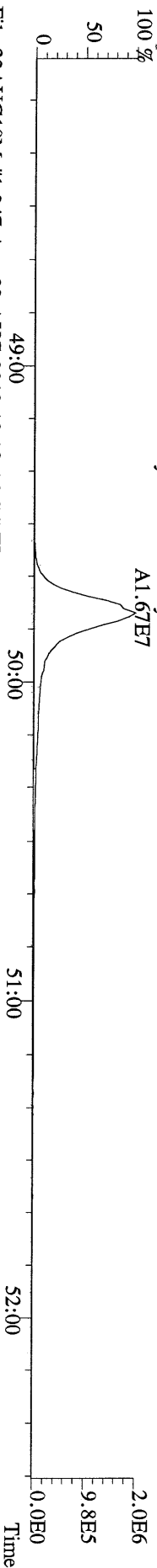
File:23AUG10M #1-347 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Utlima
457.7377 S:6 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



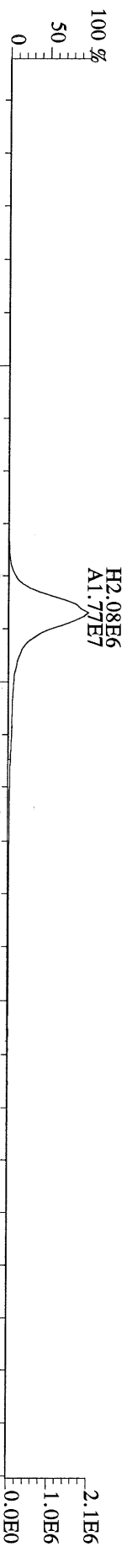
File:23AUG10M #1-347 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Utlima
459.7348 S:6 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



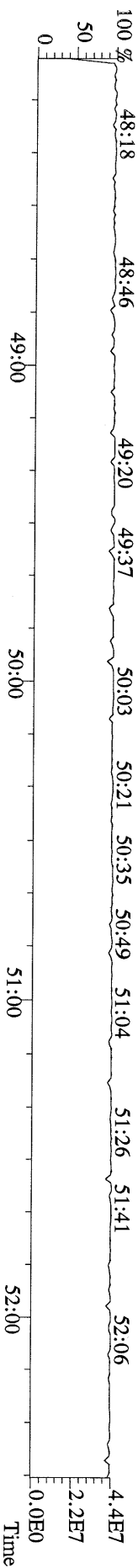
File:23AUG10M #1-347 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Utlima
469.7780 S:6 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



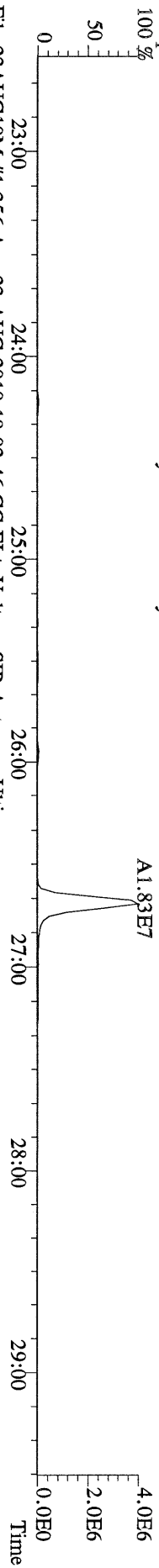
File:23AUG10M #1-347 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Utlima
471.7750 S:6 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



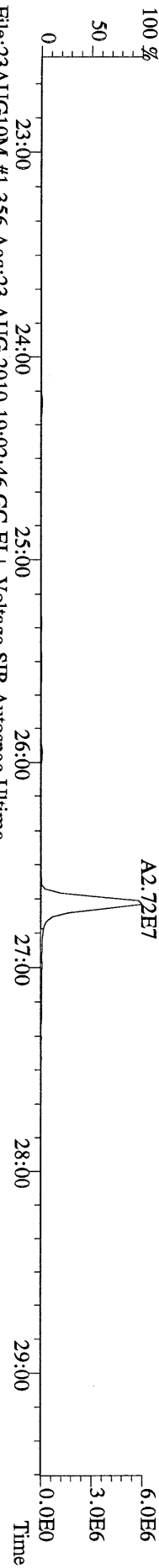
File:23AUG10M #1-347 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Utlima
454.9728 S:6 F:5 Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



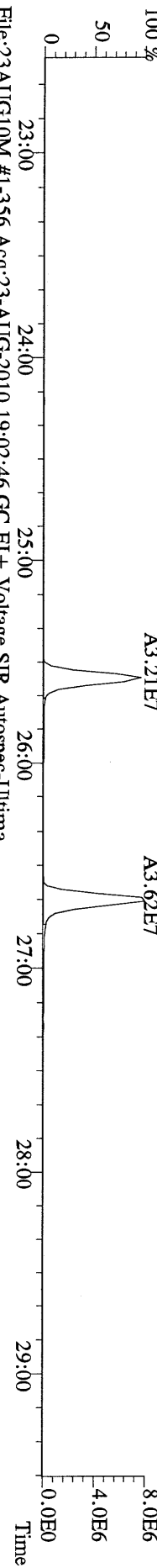
File:23AUG10M #1-356 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



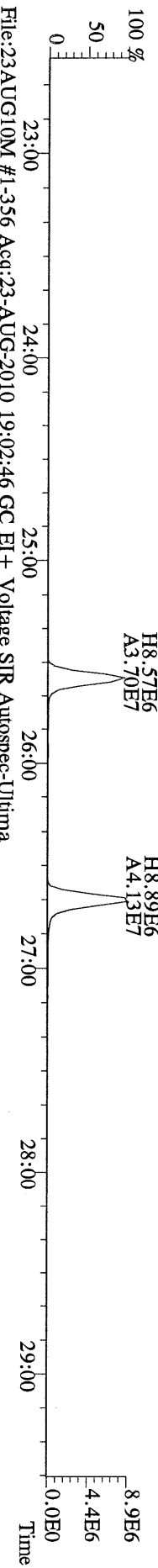
File:23AUG10M #1-356 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



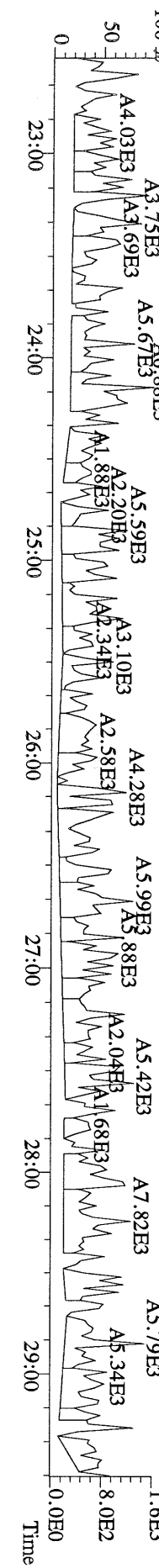
File:23AUG10M #1-356 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



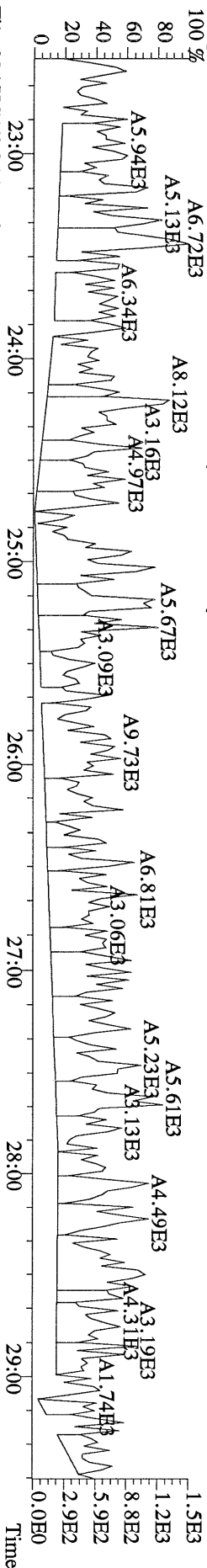
File:23AUG10M #1-356 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



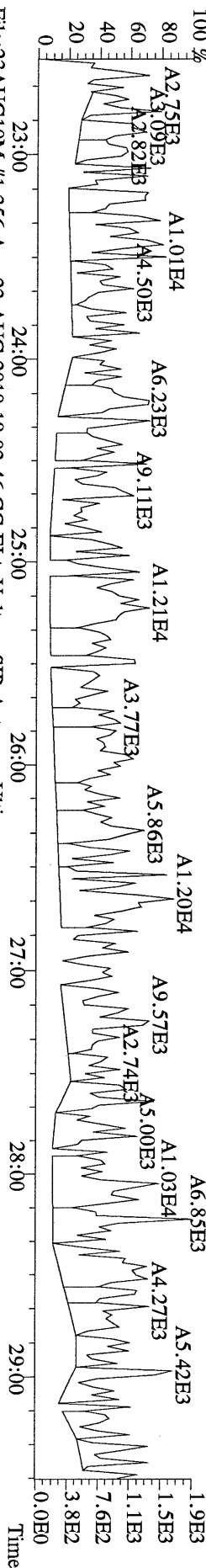
File:23AUG10M #1-356 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



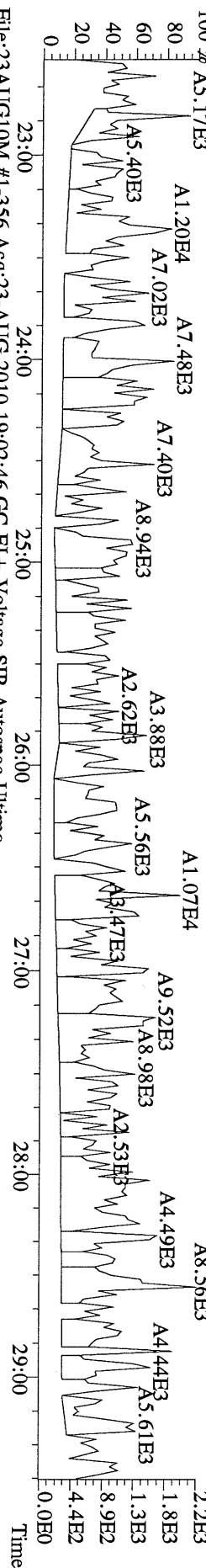
File:23AUG10M #1-356 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
 339,8597 S:6 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



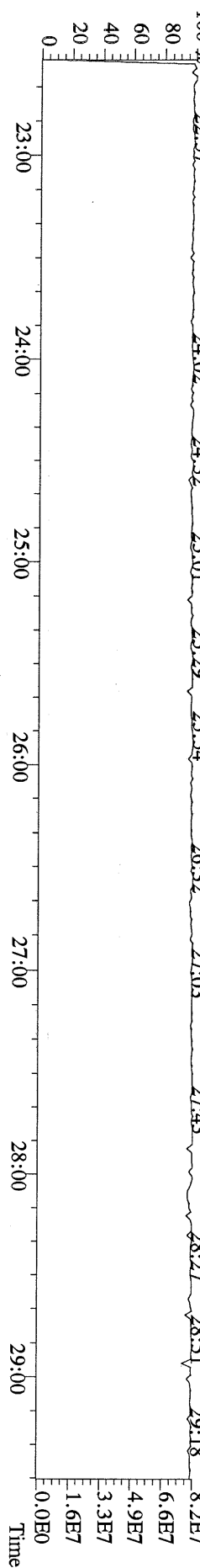
File:23AUG10M #1-356 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
 341,8568 S:6 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



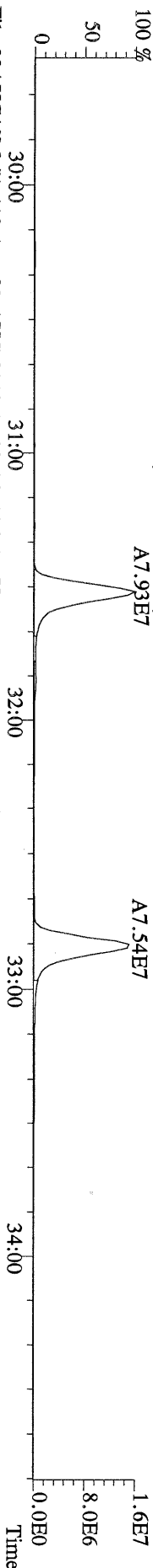
File:23AUG10M #1-356 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
 409,7974 S:6 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



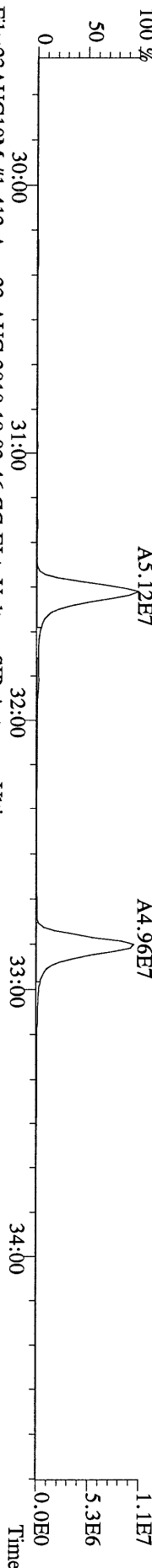
File:23AUG10M #1-356 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
 LOCK MASS CHECK S:6 Exp:PCDD
 Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



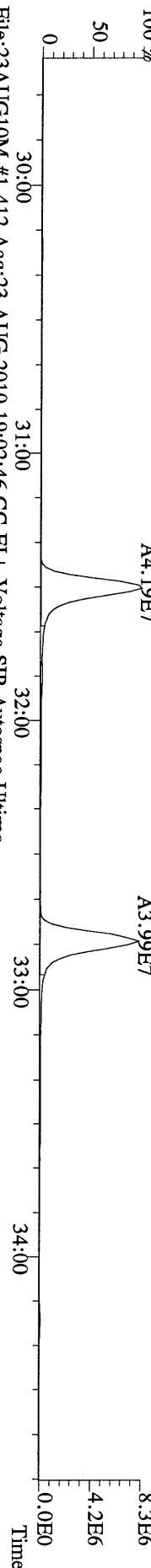
File:23AUG10M #1-412 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



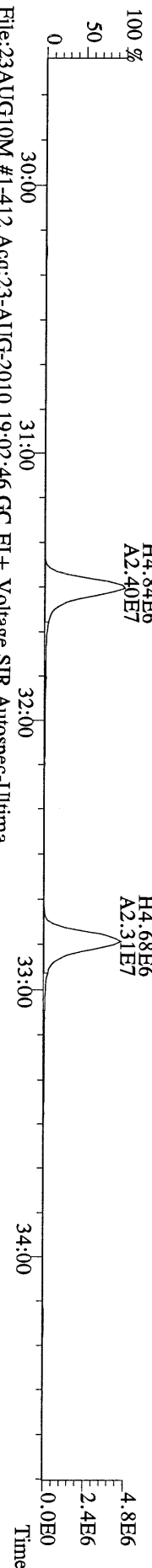
File:23AUG10M #1-412 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



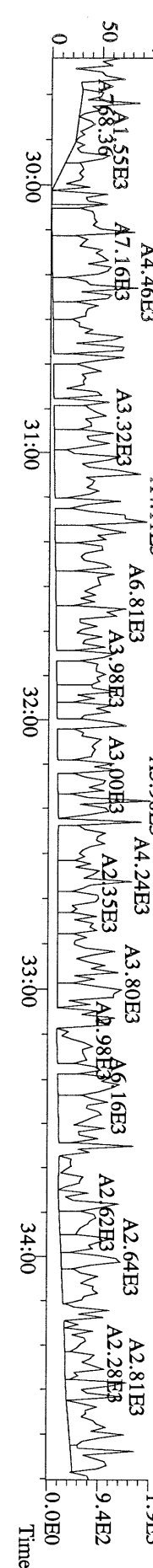
File:23AUG10M #1-412 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
 351.9000 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



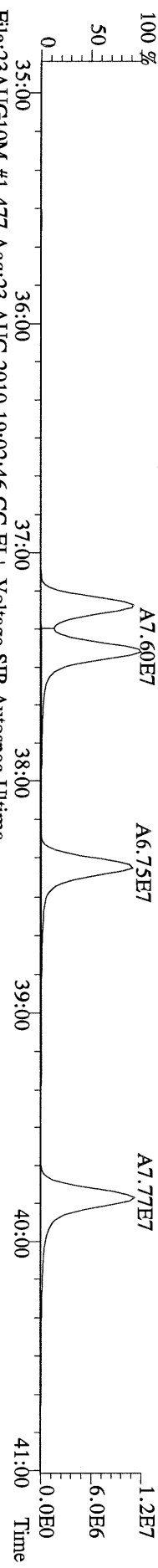
File:23AUG10M #1-412 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
 353.8970 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



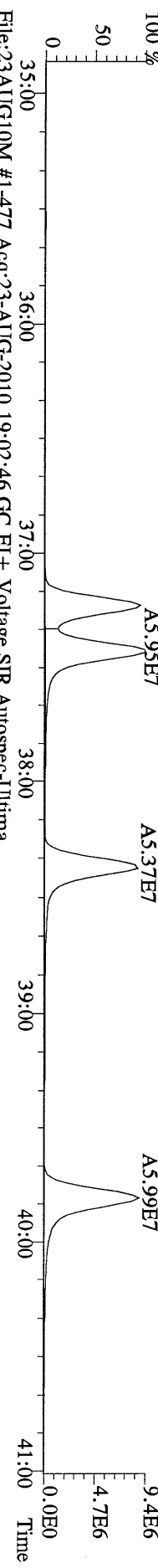
File:23AUG10M #1-412 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



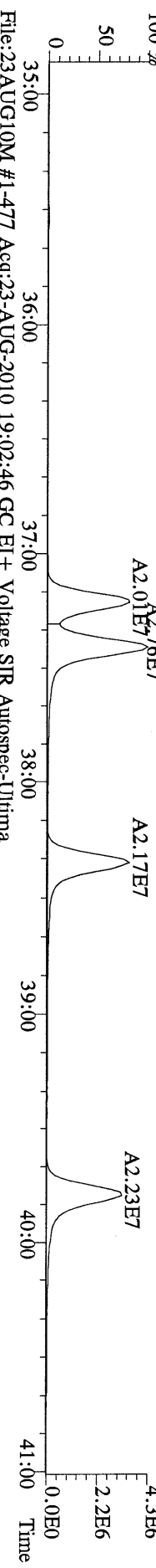
File:23AUG10M #1-477 Acq:23-AUG-2010 19:02:46 GC BI + Voltage SIR Autospec-Ultima
 373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Fronier Analytical Laboratory



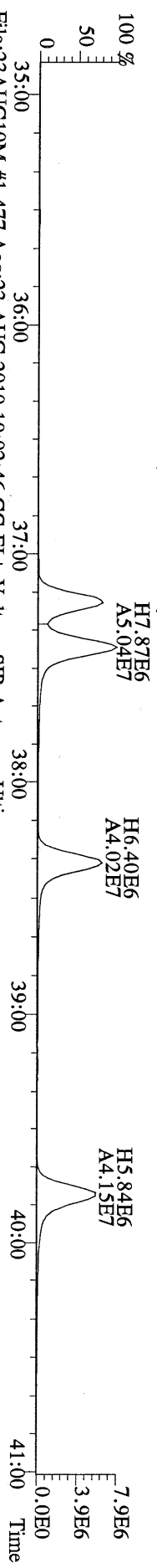
File:23AUG10M #1-477 Acq:23-AUG-2010 19:02:46 GC BI + Voltage SIR Autospec-Ultima
 375.8178 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Fronier Analytical Laboratory



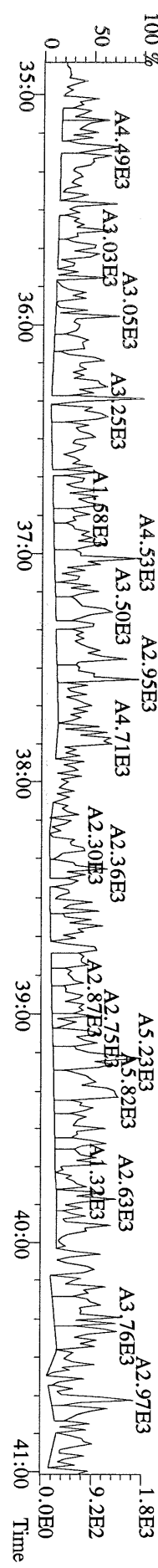
File:23AUG10M #1-477 Acq:23-AUG-2010 19:02:46 GC BI + Voltage SIR Autospec-Ultima
 383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Fronier Analytical Laboratory



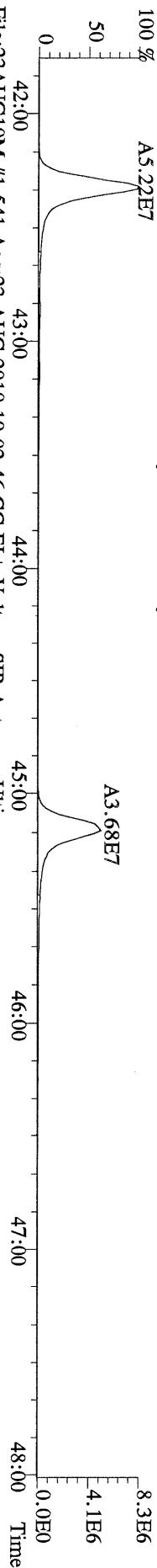
File:23AUG10M #1-477 Acq:23-AUG-2010 19:02:46 GC BI + Voltage SIR Autospec-Ultima
 385.8610 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Fronier Analytical Laboratory



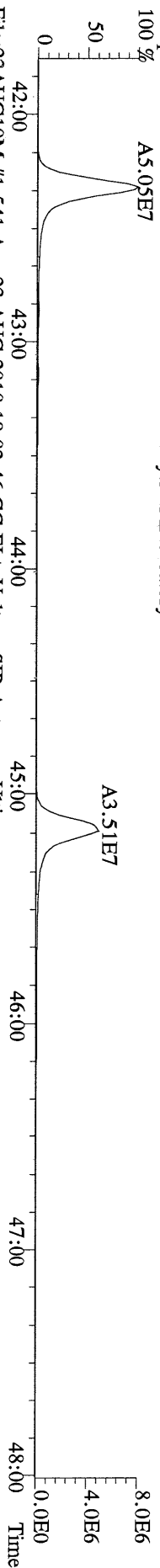
File:23AUG10M #1-477 Acq:23-AUG-2010 19:02:46 GC BI + Voltage SIR Autospec-Ultima
 445.7555 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST082310M4 File Text:Fronier Analytical Laboratory



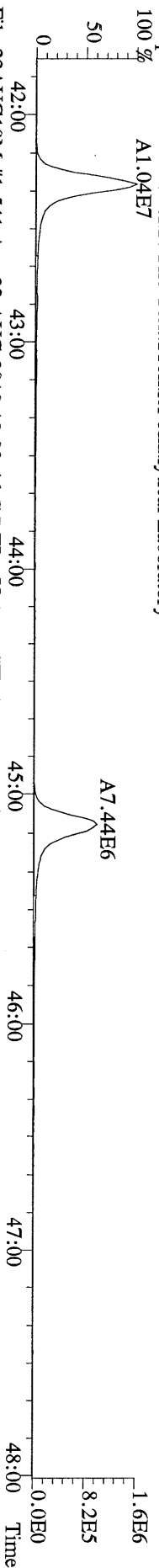
File:23AUG10M #1-541 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Utima
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



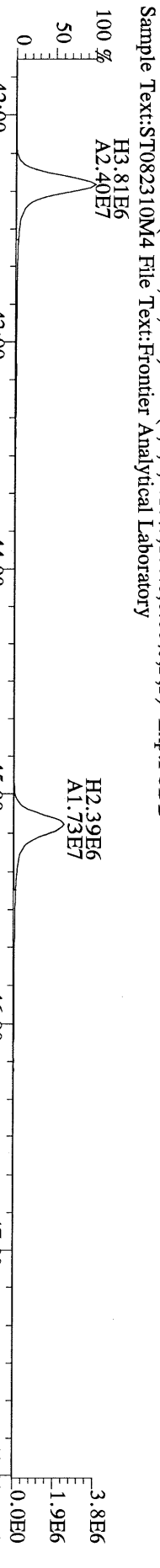
File:23AUG10M #1-541 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Utima
409.7788 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



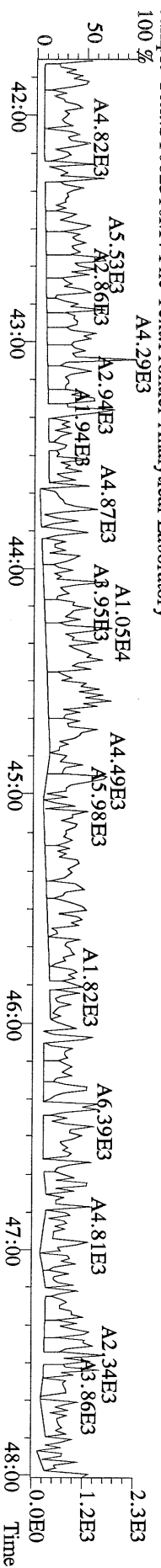
File:23AUG10M #1-541 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Utima
417.8253 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



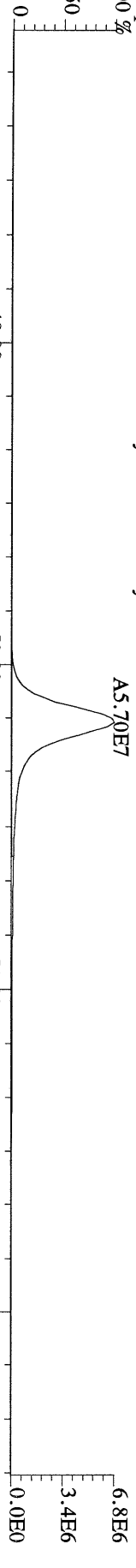
File:23AUG10M #1-541 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Utima
419.8220 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



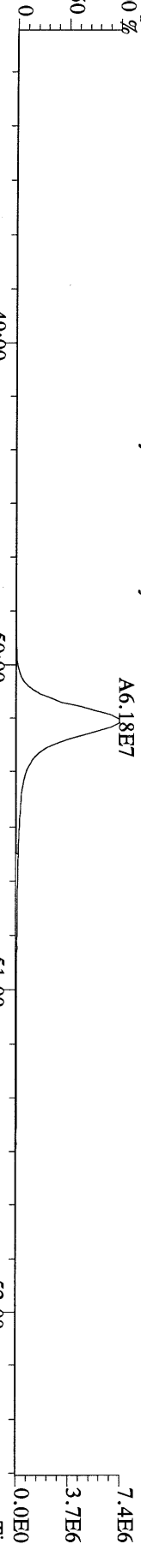
File:23AUG10M #1-541 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SIR Autospec-Utima
479.7165 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



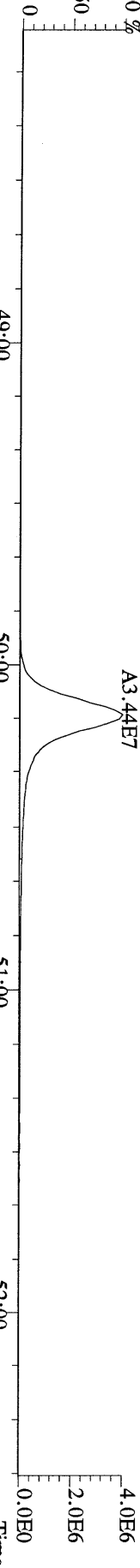
File:23AUG10M #1-347 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SHR Autospec-Ultima
441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



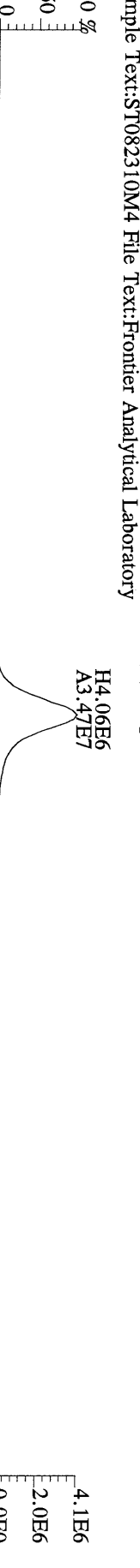
File:23AUG10M #1-347 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SHR Autospec-Ultima
443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



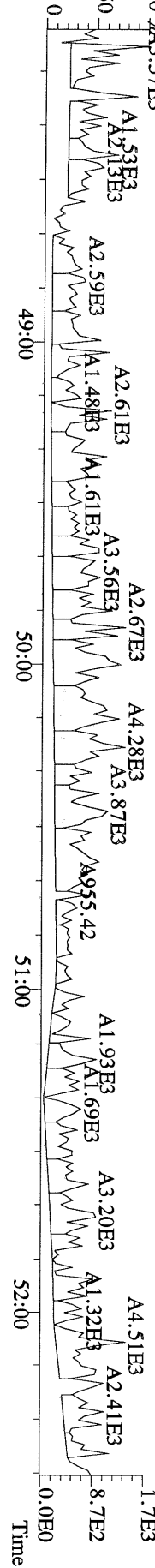
File:23AUG10M #1-347 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SHR Autospec-Ultima
453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory
100 %



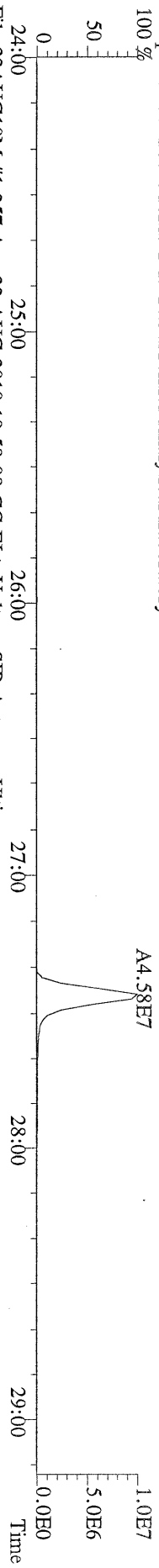
File:23AUG10M #1-347 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SHR Autospec-Ultima
455.7801 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



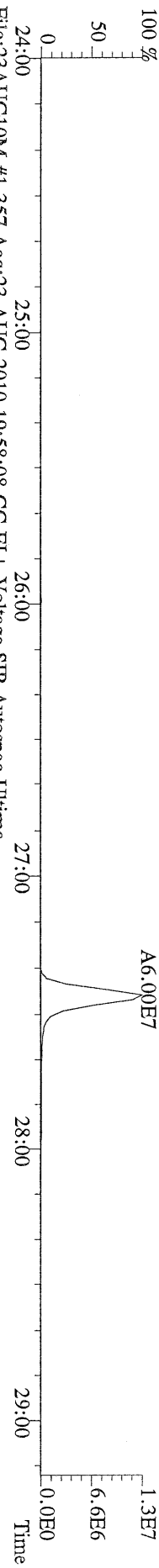
File:23AUG10M #1-347 Acq:23-AUG-2010 19:02:46 GC EI+ Voltage SHR Autospec-Ultima
513.6775 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M4 File Text:Frontier Analytical Laboratory



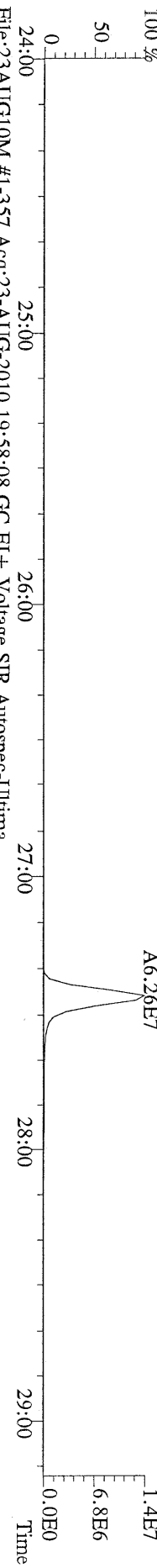
File:23AUG10M #1-357 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:7 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory
100 %



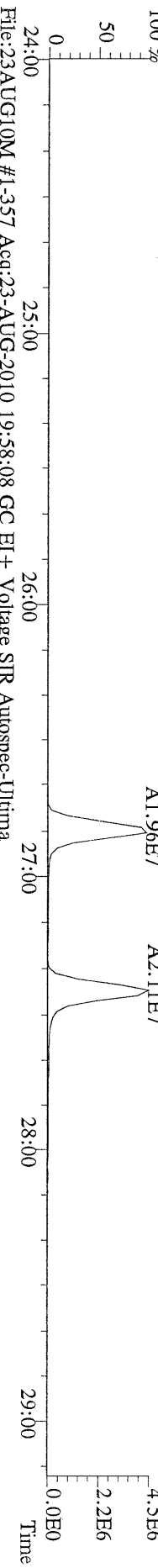
File:23AUG10M #1-357 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:7 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory
100 %



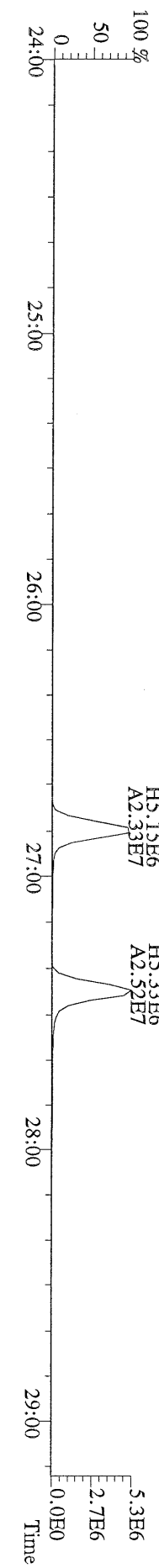
File:23AUG10M #1-357 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
327.8847 S:7 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory
100 %



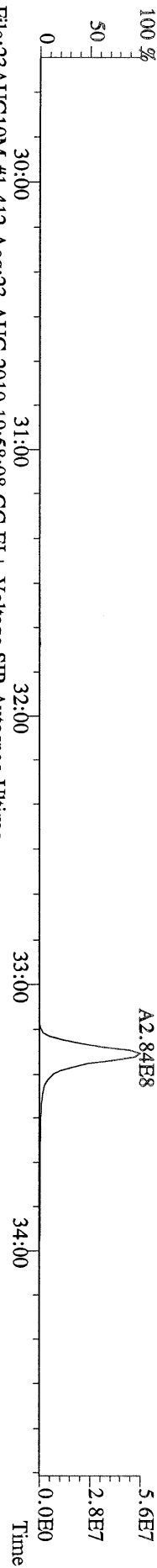
File:23AUG10M #1-357 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
331.9368 S:7 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory
100 %



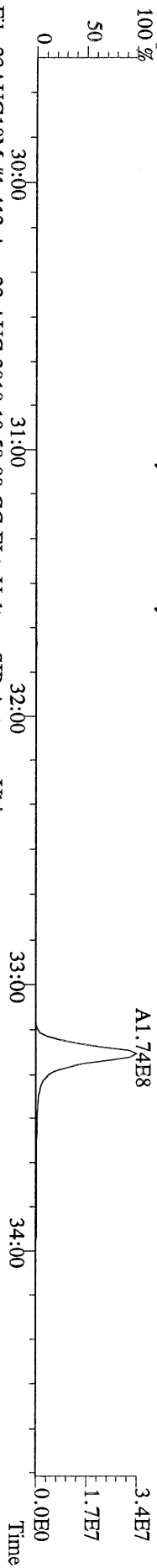
File:23AUG10M #1-357 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
333.9339 S:7 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



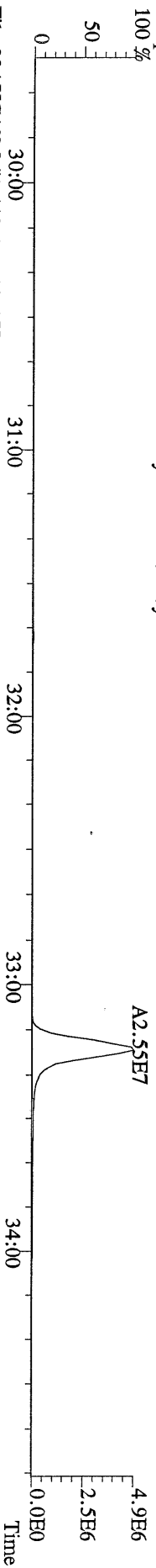
File:23AUG10M #1-412 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



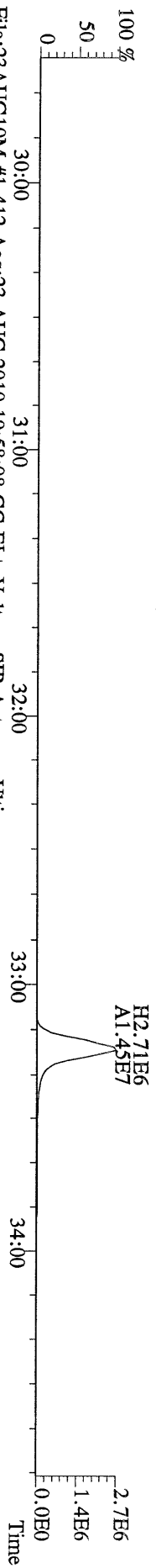
File:23AUG10M #1-412 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



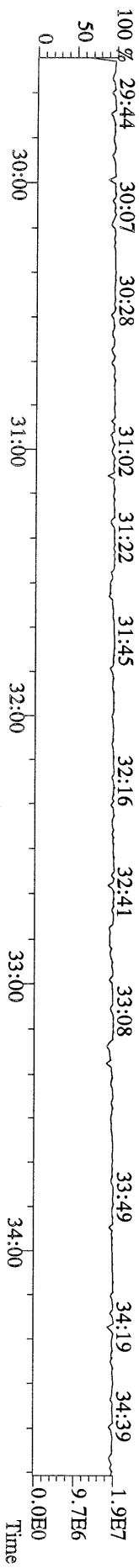
File:23AUG10M #1-412 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



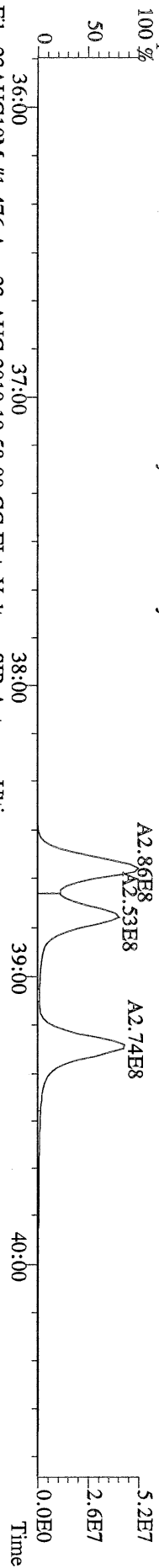
File:23AUG10M #1-412 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



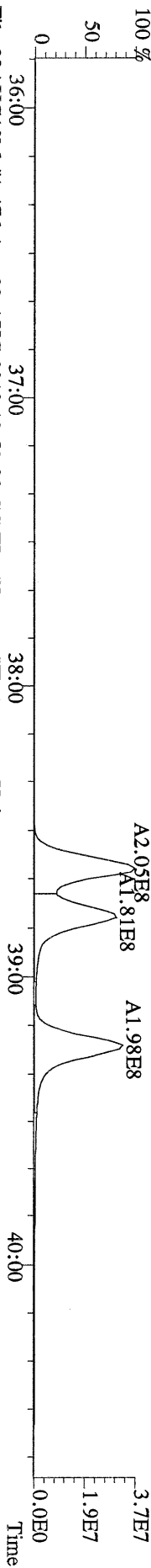
File:23AUG10M #1-412 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:7 F:2 Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



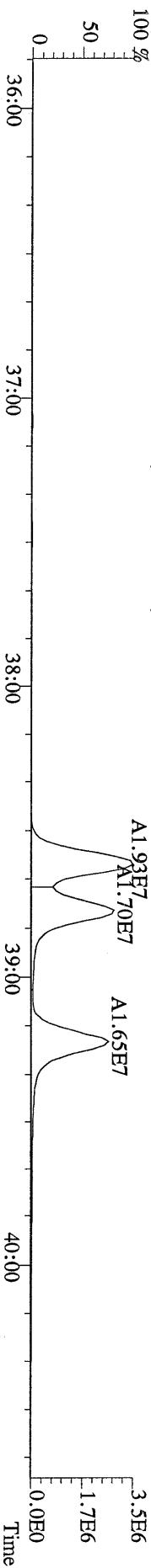
File:23AUG10M #1-476 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



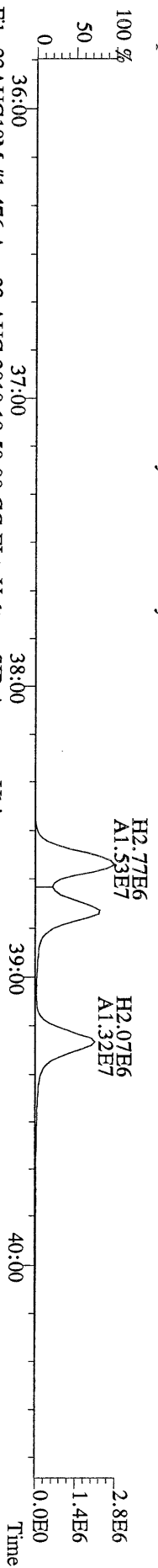
File:23AUG10M #1-476 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



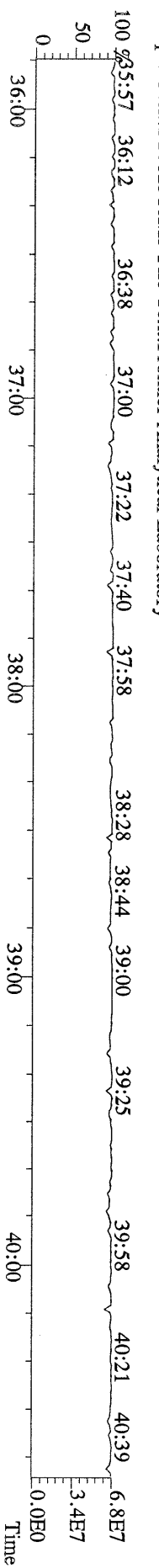
File:23AUG10M #1-476 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



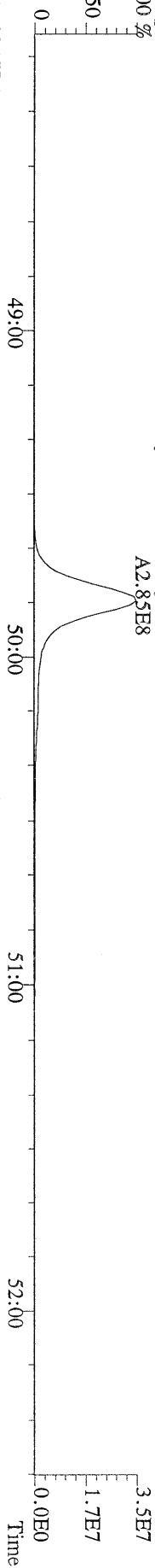
File:23AUG10M #1-476 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



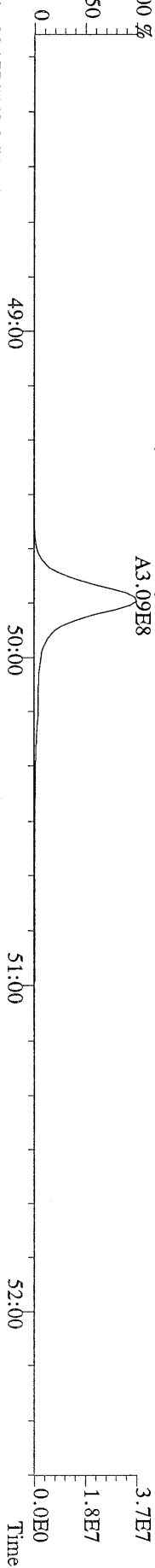
File:23AUG10M #1-476 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:7 F:3 Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



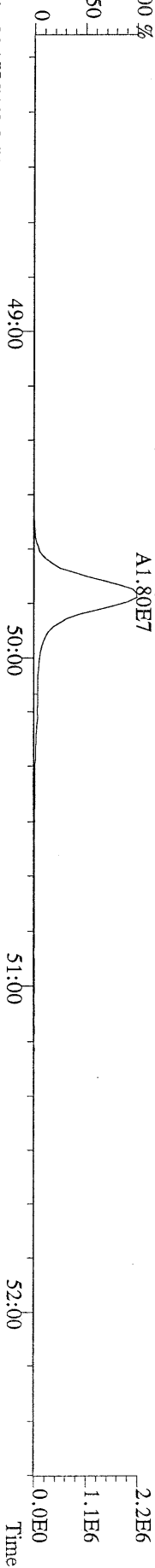
File:23AUG10M #1-347 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory
100 %



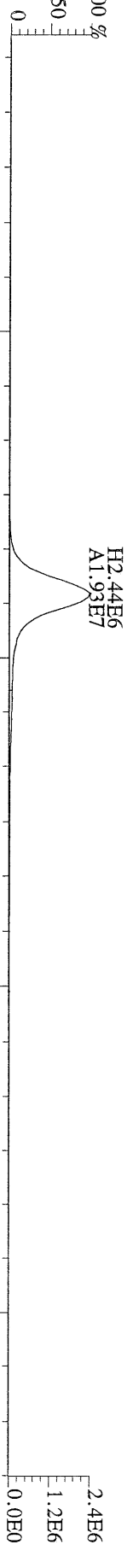
File:23AUG10M #1-347 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory
100 %



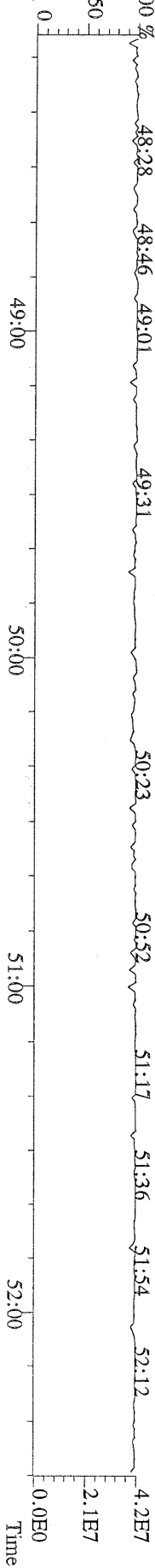
File:23AUG10M #1-347 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory
100 %



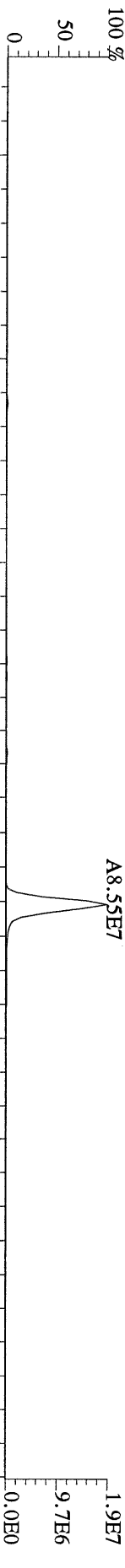
File:23AUG10M #1-347 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



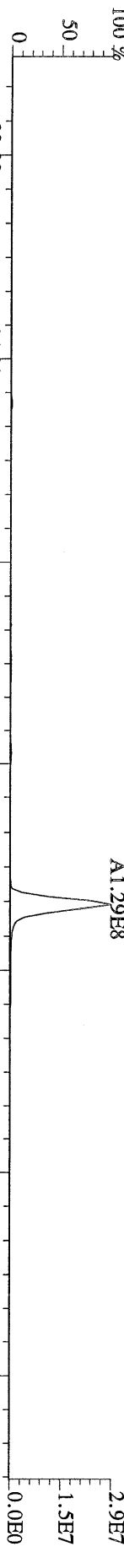
File:23AUG10M #1-347 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:7 F:5 Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



File:23AUG10M #1-357 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



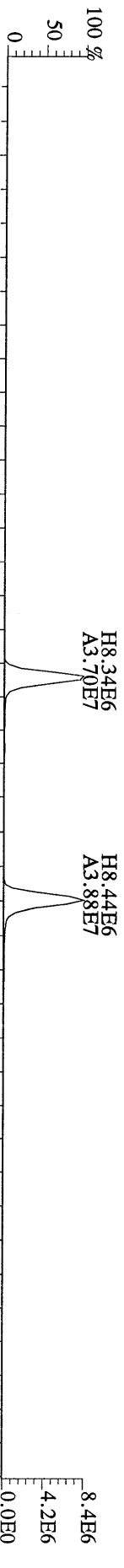
File:23AUG10M #1-357 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



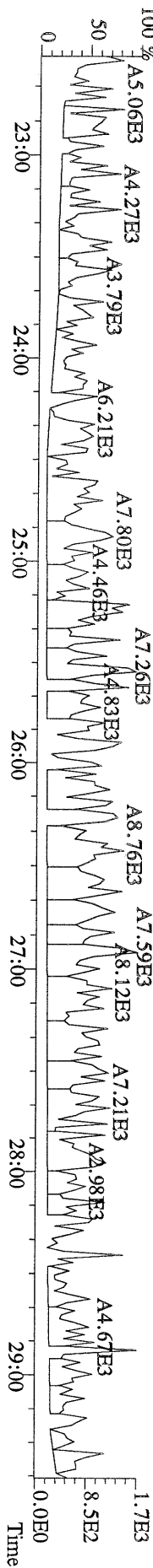
File:23AUG10M #1-357 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



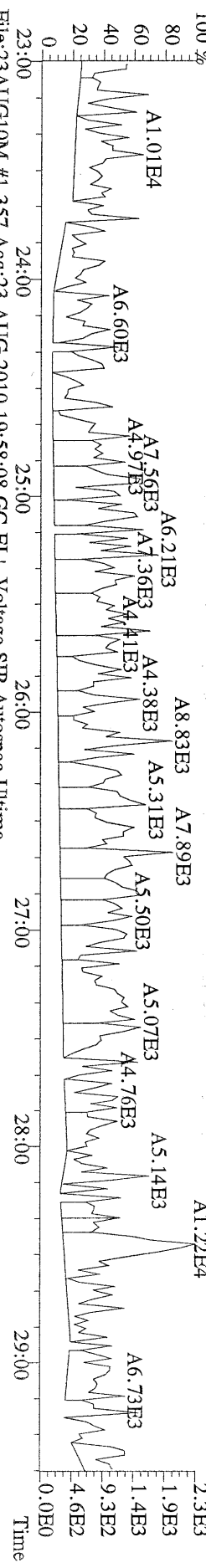
File:23AUG10M #1-357 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



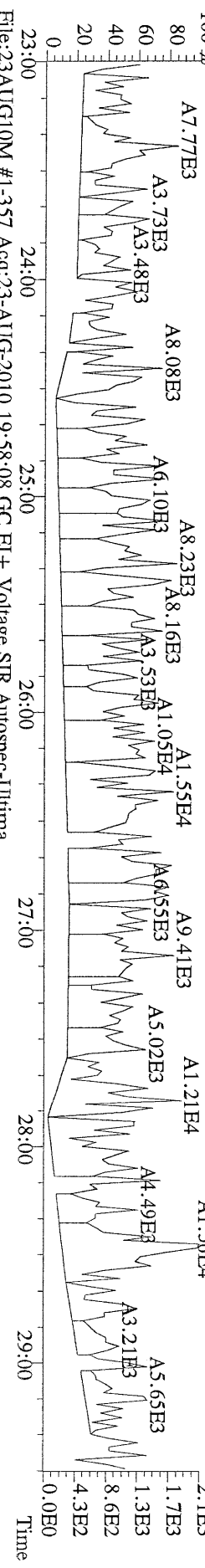
File:23AUG10M #1-357 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



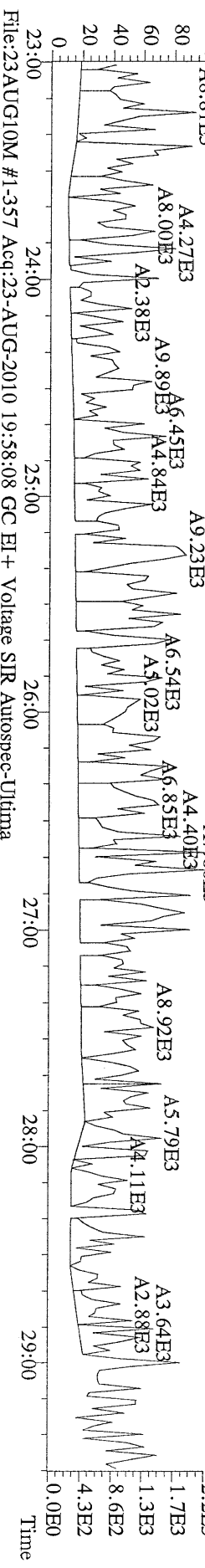
File:23AUG10M #1-357 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:7 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



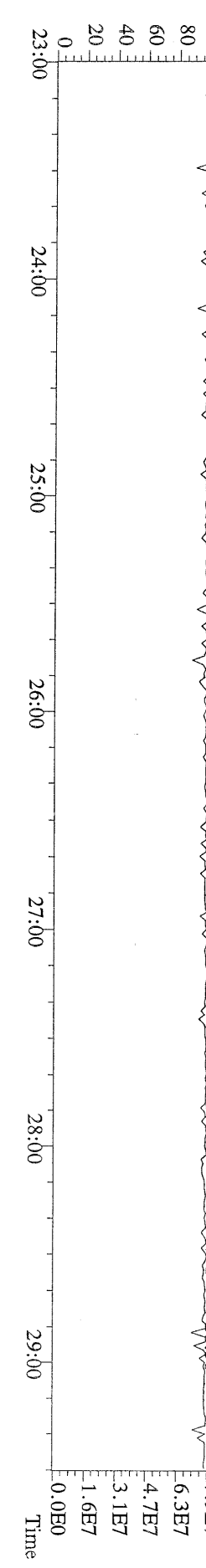
File:23AUG10M #1-357 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:7 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



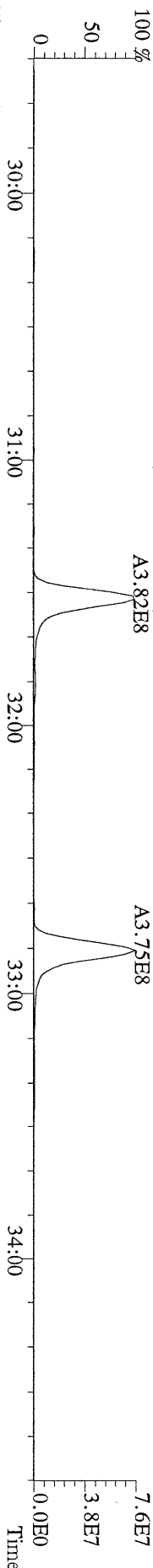
File:23AUG10M #1-357 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:7 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



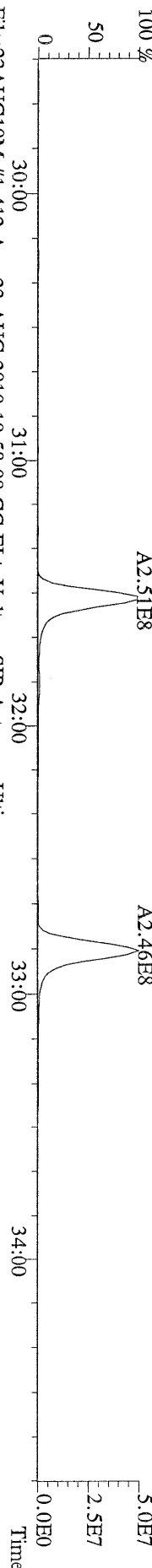
File:23AUG10M #1-357 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
 330.9792 S:7 Exp:PCDD
 Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



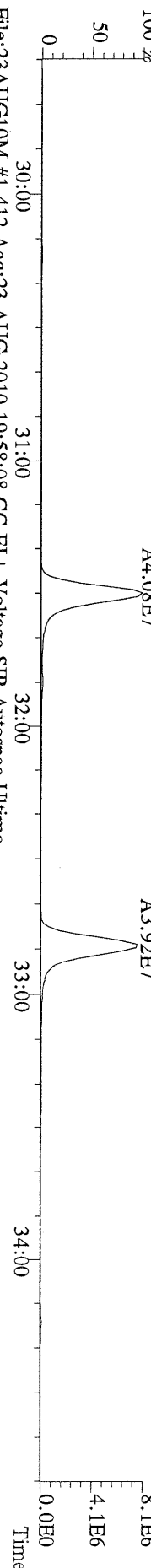
File:23AUG10M #1-412 Acq:23-AUG-2010 19:58:08 GC HI+ Voltage SIR Autospec-Ultima
 339.8597 S:7 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M5 File Text:Fronier Analytical Laboratory



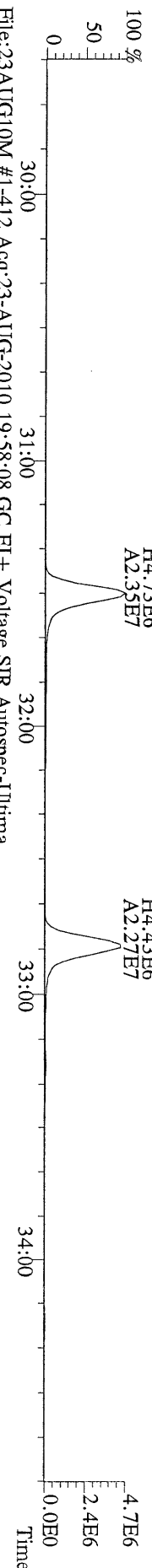
File:23AUG10M #1-412 Acq:23-AUG-2010 19:58:08 GC HI+ Voltage SIR Autospec-Ultima
 341.8568 S:7 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M5 File Text:Fronier Analytical Laboratory



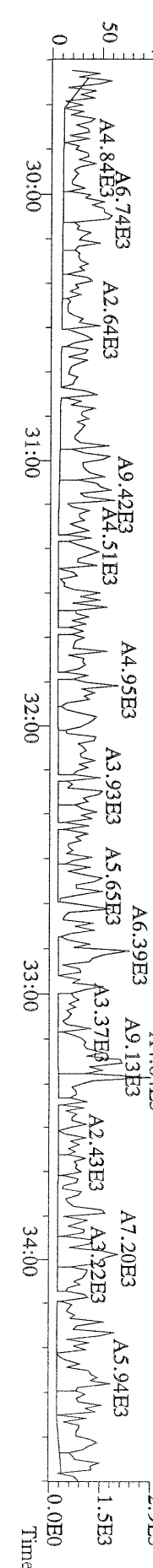
File:23AUG10M #1-412 Acq:23-AUG-2010 19:58:08 GC HI+ Voltage SIR Autospec-Ultima
 351.9000 S:7 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M5 File Text:Fronier Analytical Laboratory



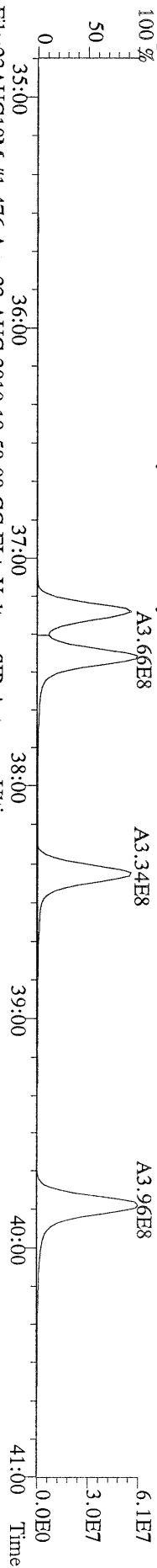
File:23AUG10M #1-412 Acq:23-AUG-2010 19:58:08 GC HI+ Voltage SIR Autospec-Ultima
 353.8970 S:7 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M5 File Text:Fronier Analytical Laboratory



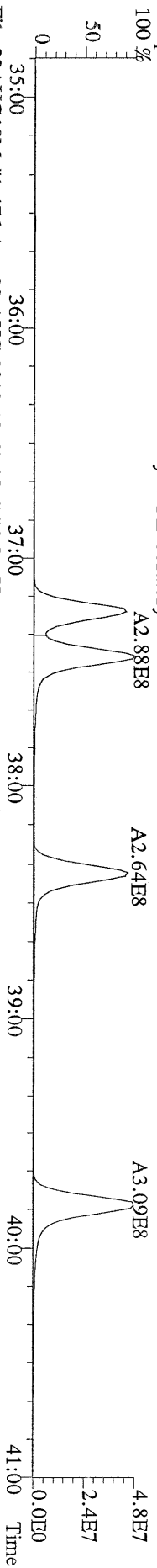
File:23AUG10M #1-412 Acq:23-AUG-2010 19:58:08 GC HI+ Voltage SIR Autospec-Ultima
 409.7974 S:7 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST082310M5 File Text:Fronier Analytical Laboratory



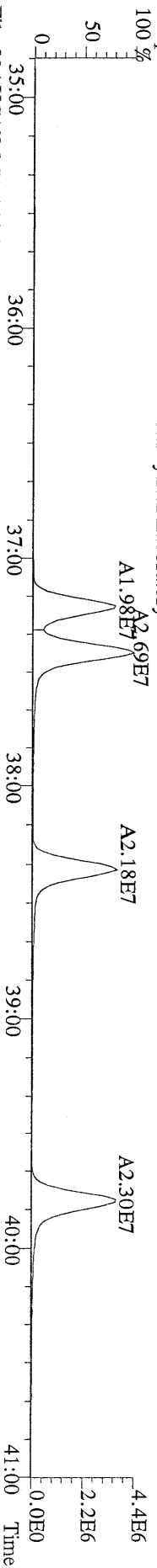
File:23AUG10M #1-476 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Utima
373.8207 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



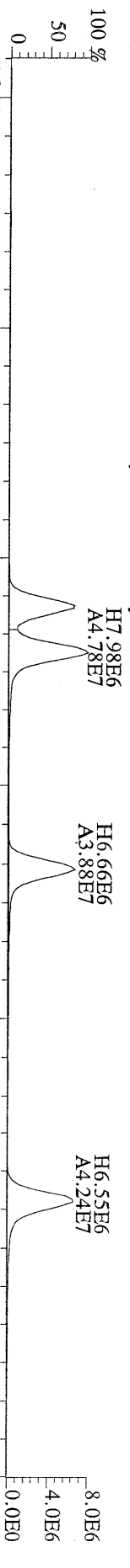
File:23AUG10M #1-476 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Utima
375.8178 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



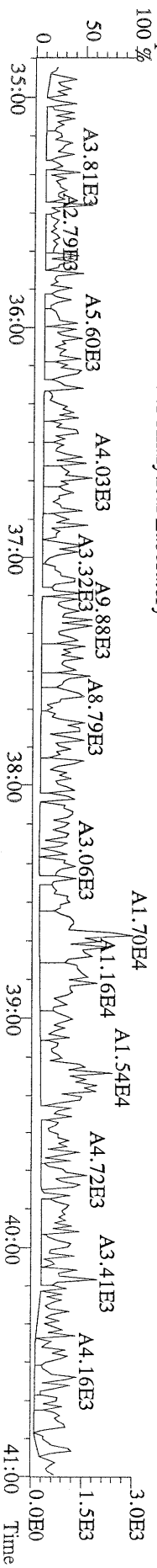
File:23AUG10M #1-476 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Utima
383.8639 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



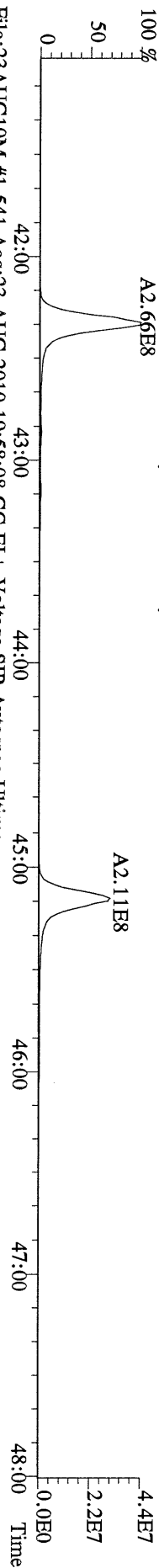
File:23AUG10M #1-476 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Utima
385.8610 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



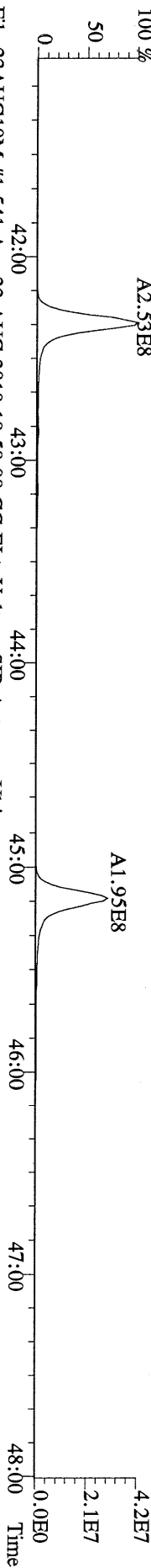
File:23AUG10M #1-476 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Utima
445.7555 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



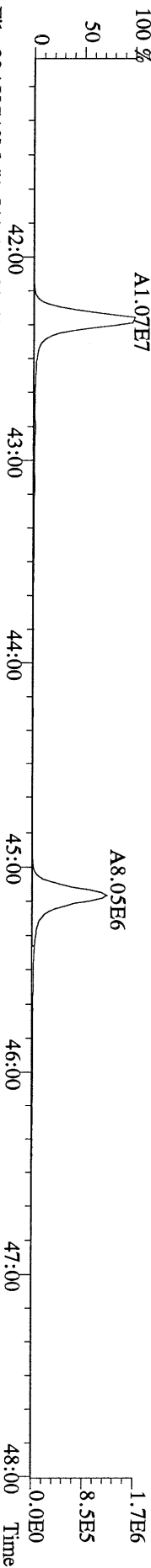
File:23AUG10M #1-541 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Utima
407.7818 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



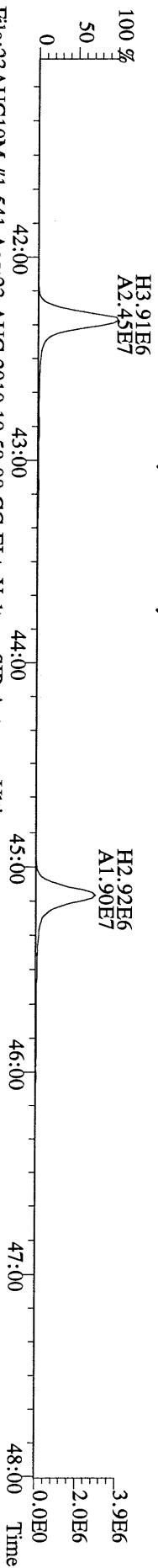
File:23AUG10M #1-541 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Utima
409.7788 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



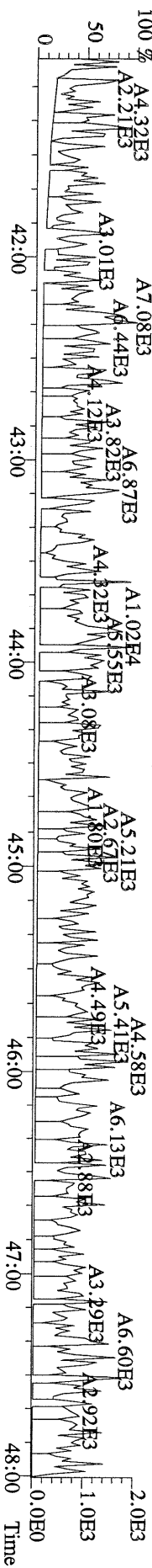
File:23AUG10M #1-541 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Utima
417.8253 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



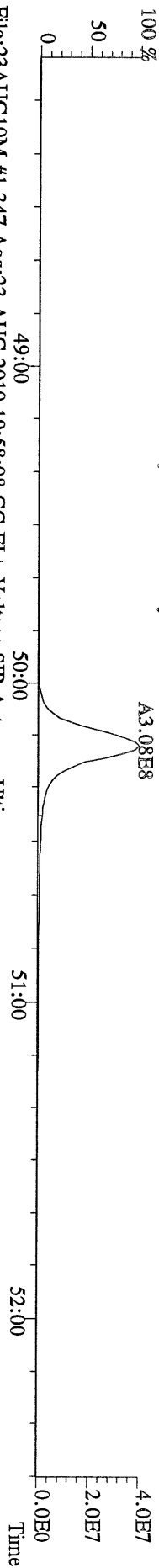
File:23AUG10M #1-541 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Utima
419.8220 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



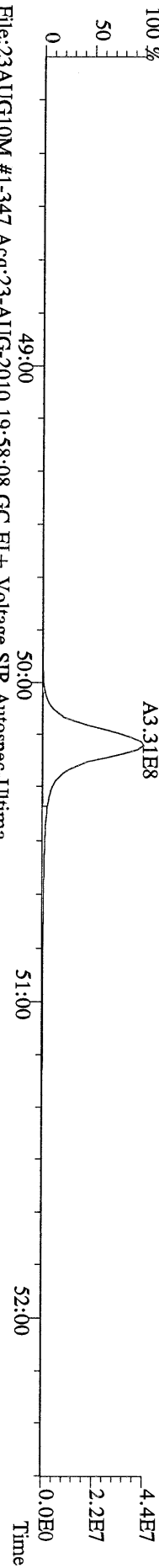
File:23AUG10M #1-541 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Utima
479.7165 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory



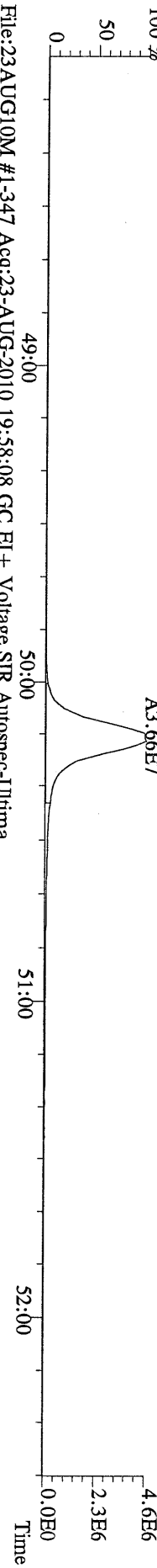
File:23AUG10M #1-347 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory
100 %



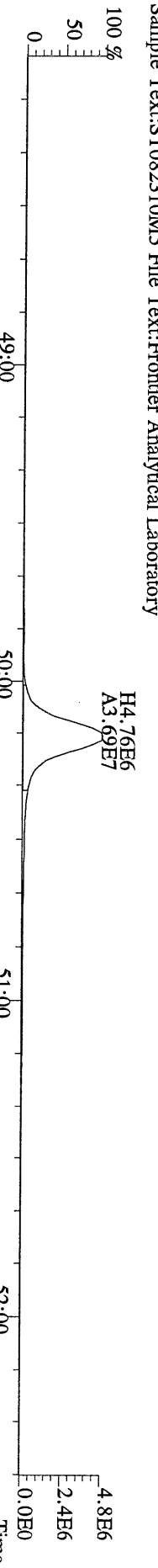
File:23AUG10M #1-347 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory
100 %



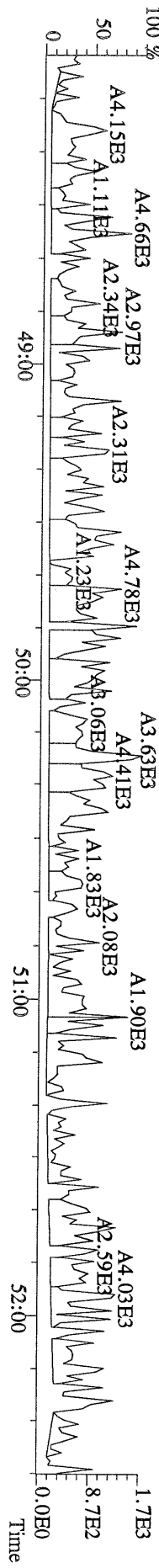
File:23AUG10M #1-347 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory
100 %

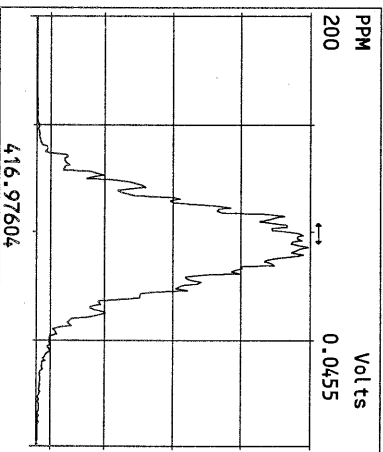
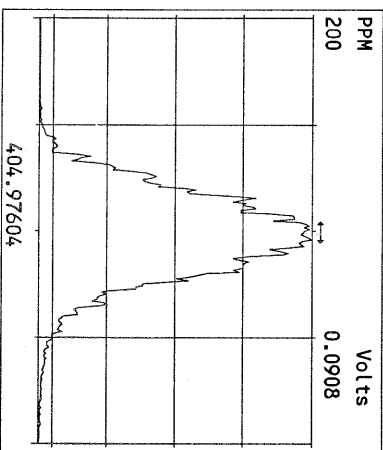
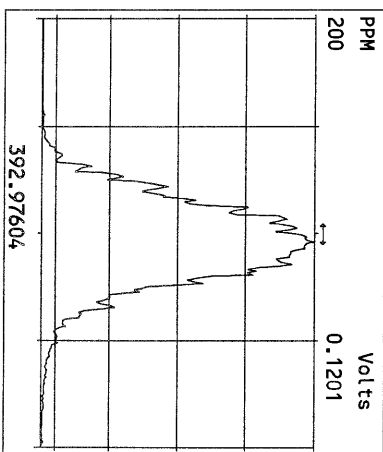
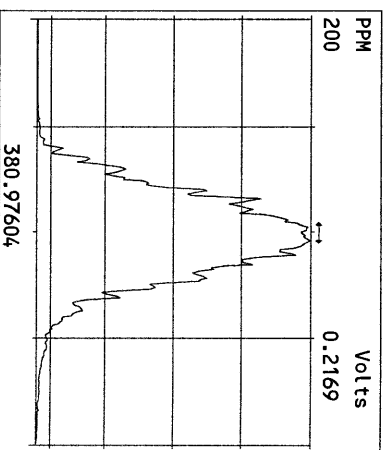
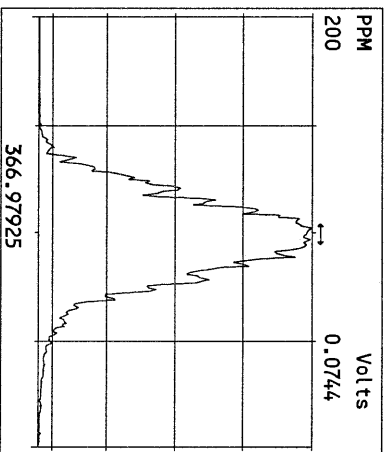
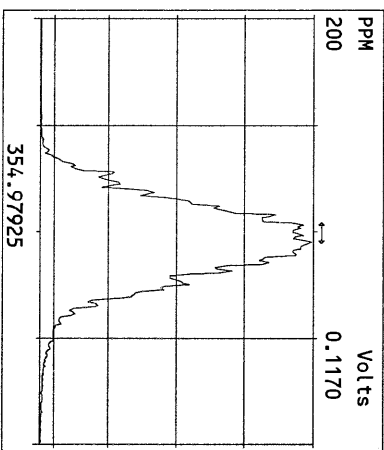
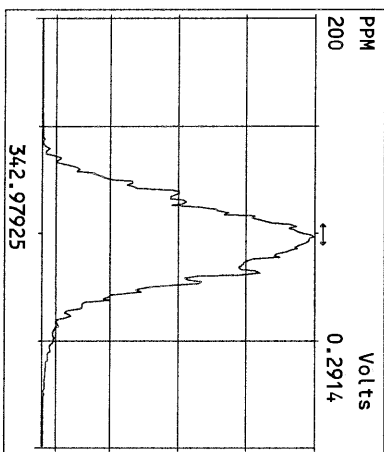
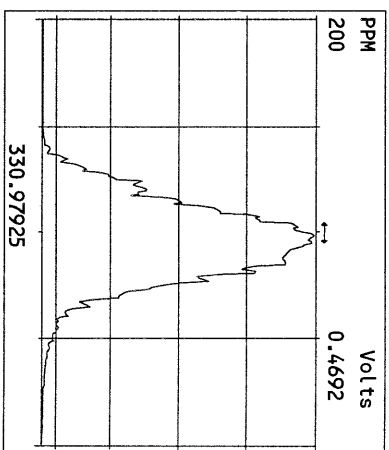
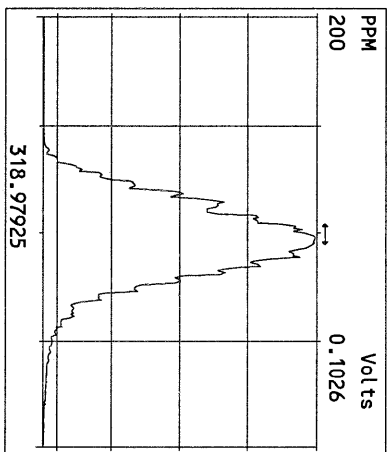
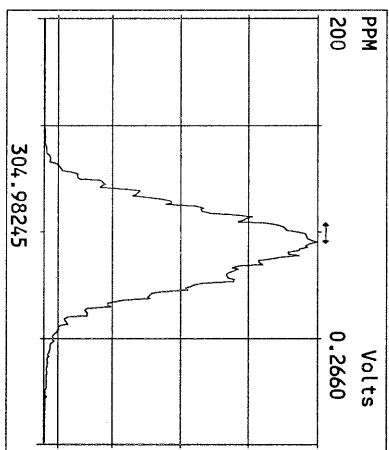
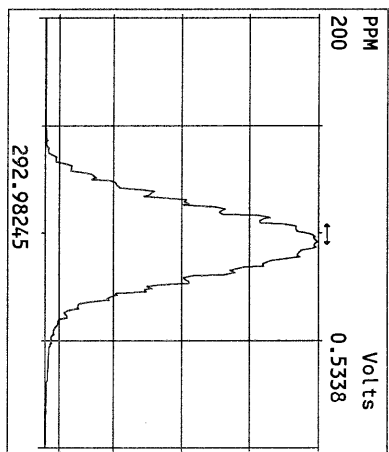


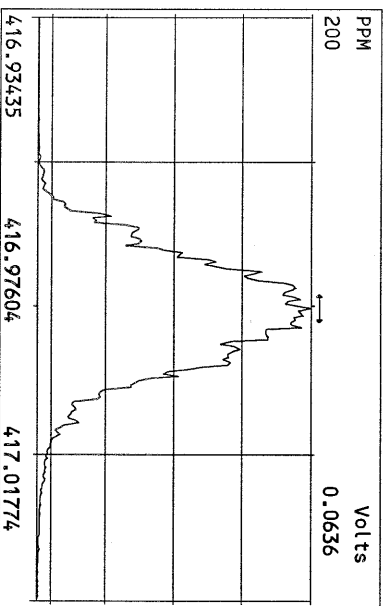
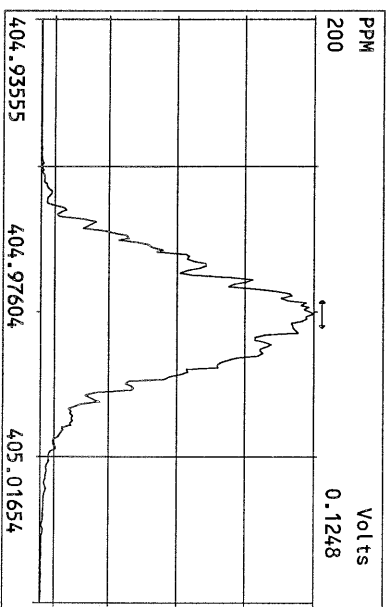
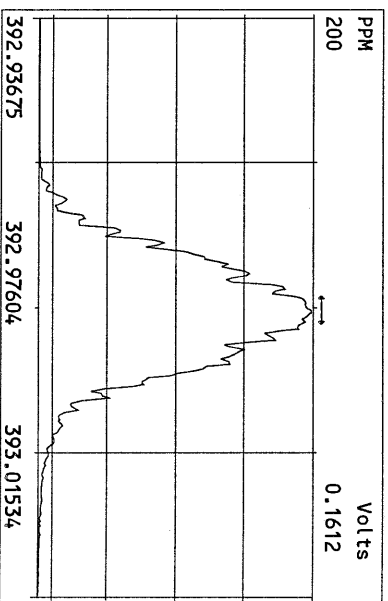
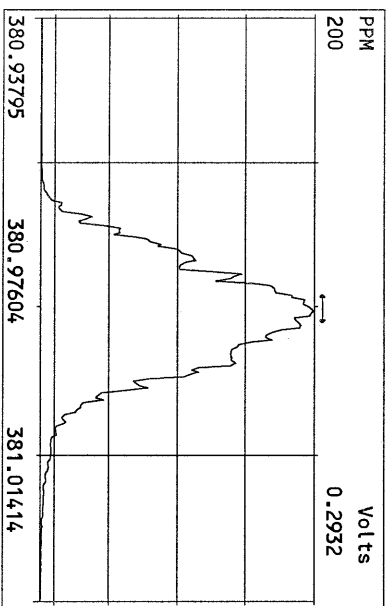
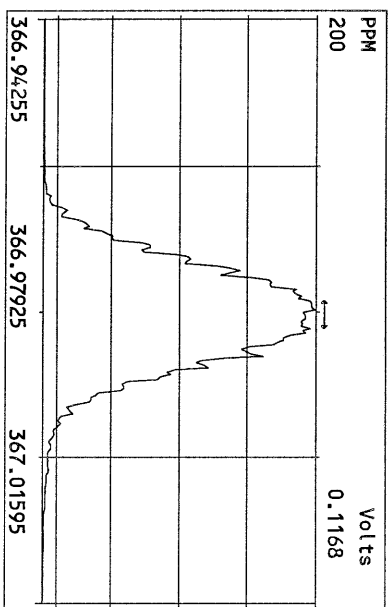
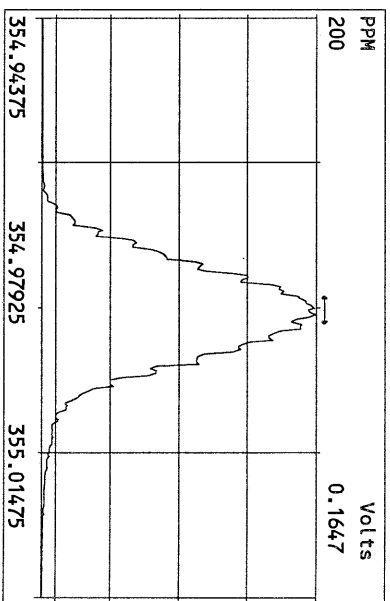
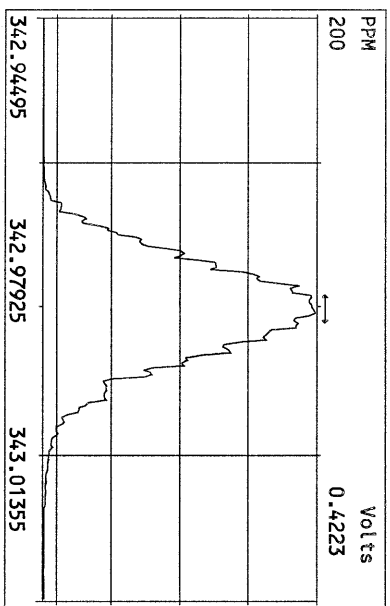
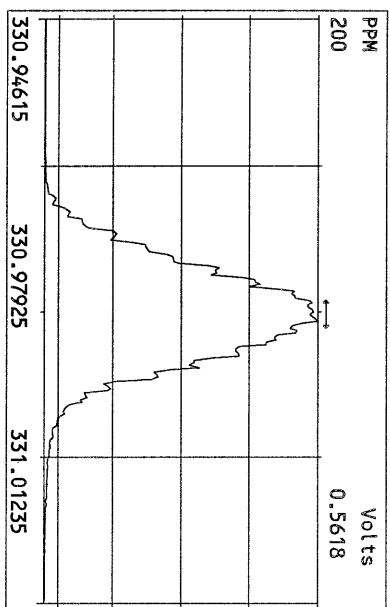
File:23AUG10M #1-347 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory

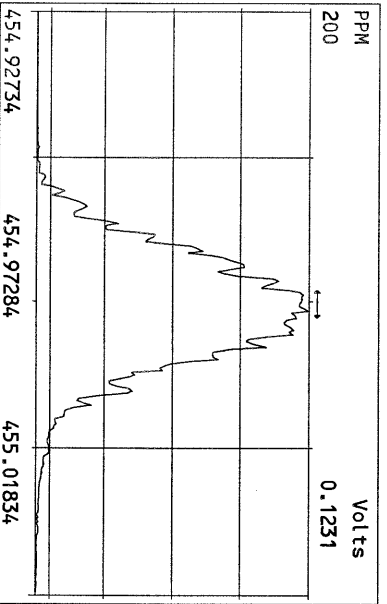
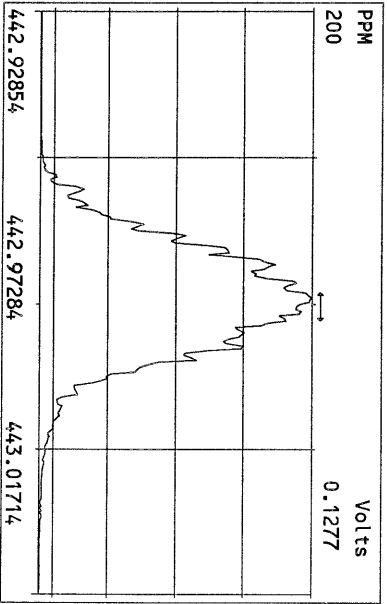
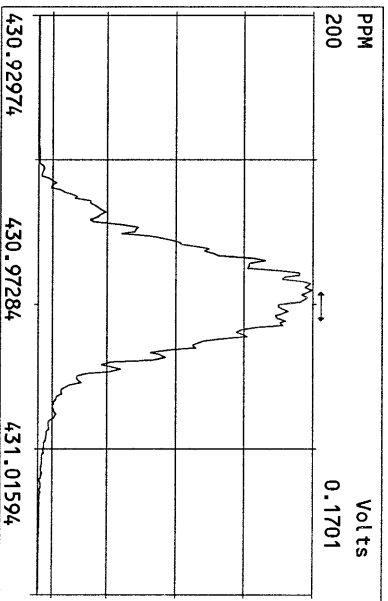
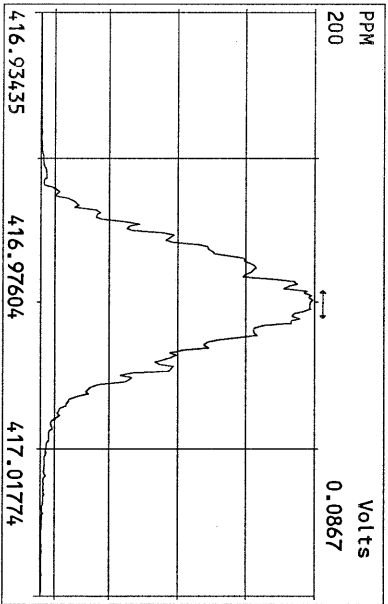
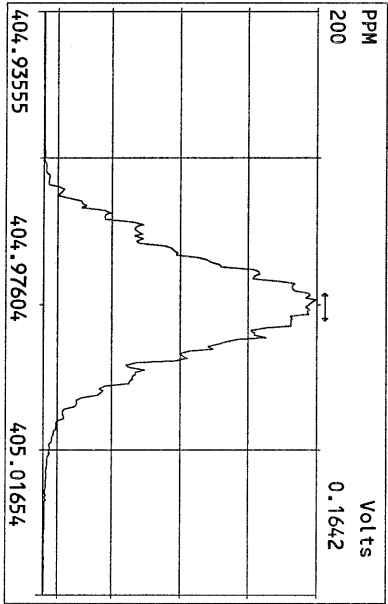
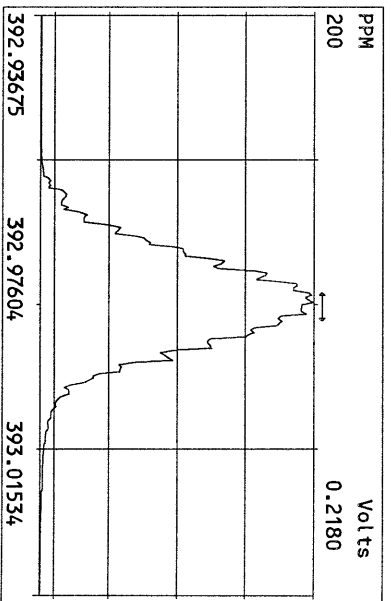
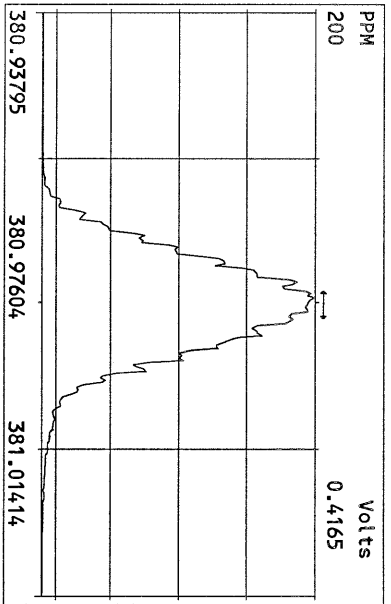
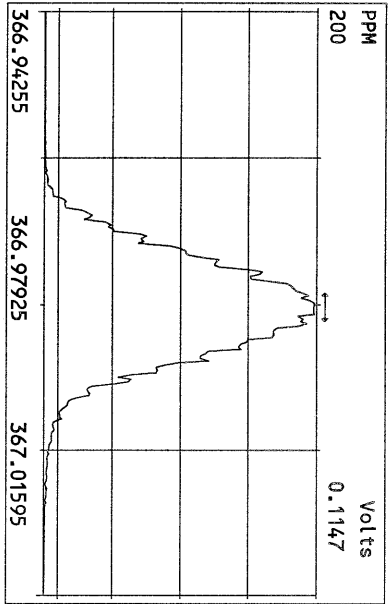


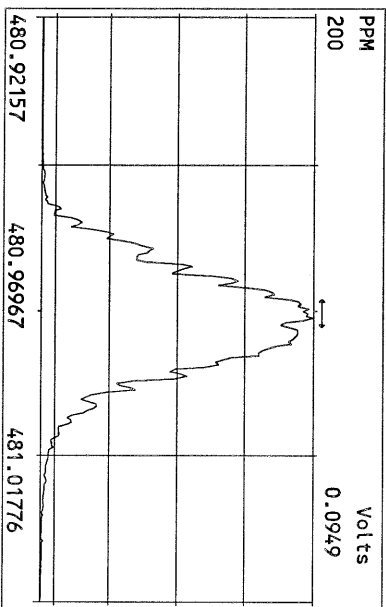
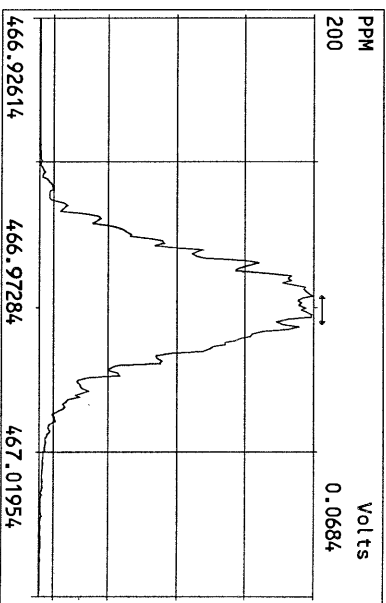
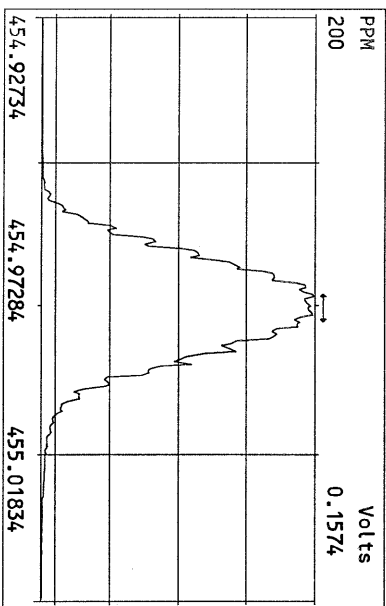
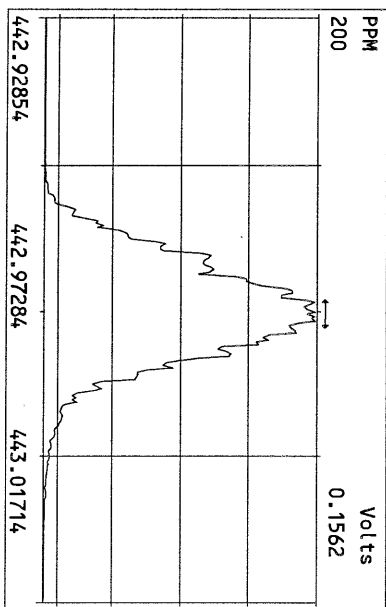
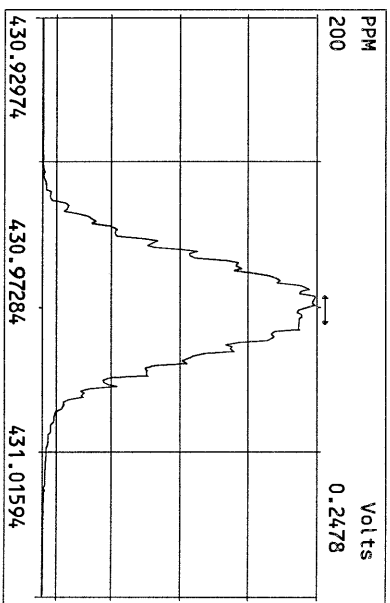
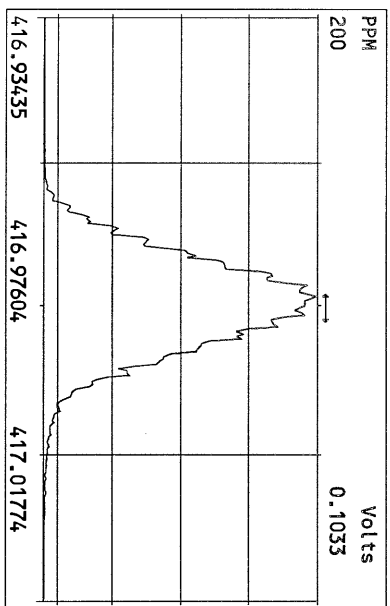
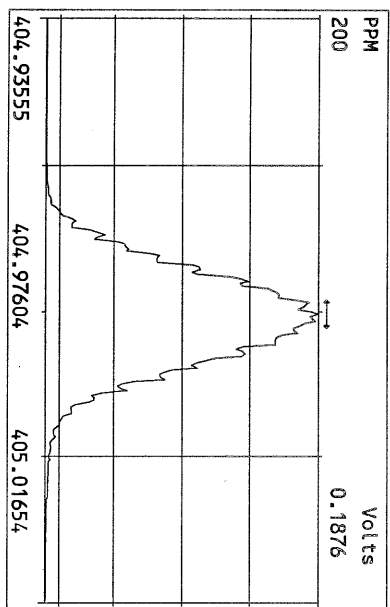
File:23AUG10M #1-347 Acq:23-AUG-2010 19:58:08 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082310M5 File Text:Frontier Analytical Laboratory

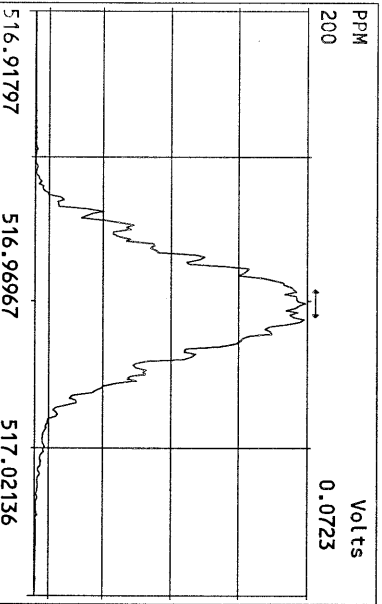
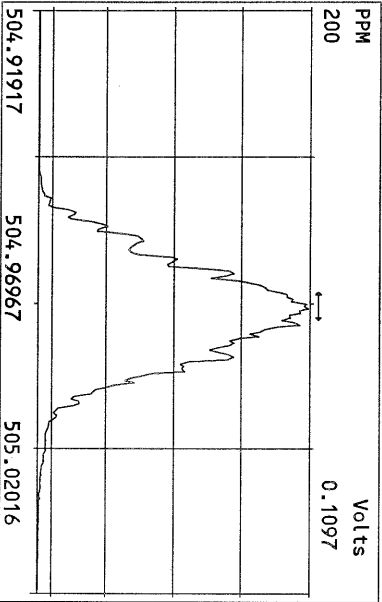
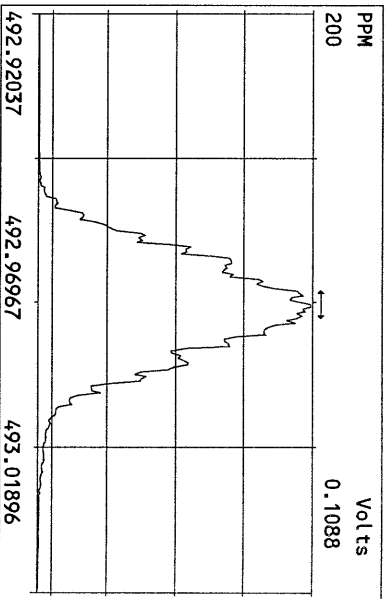
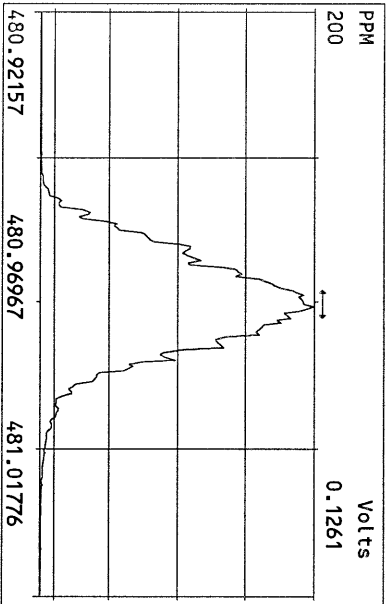
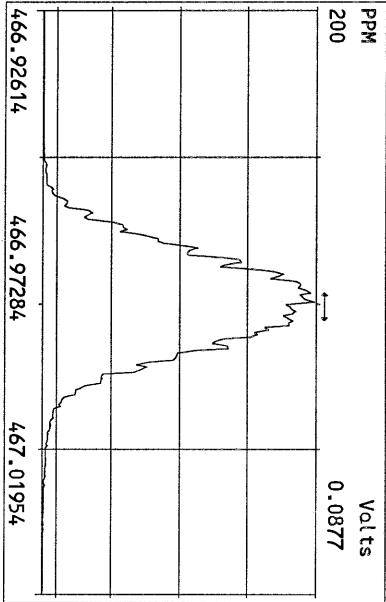
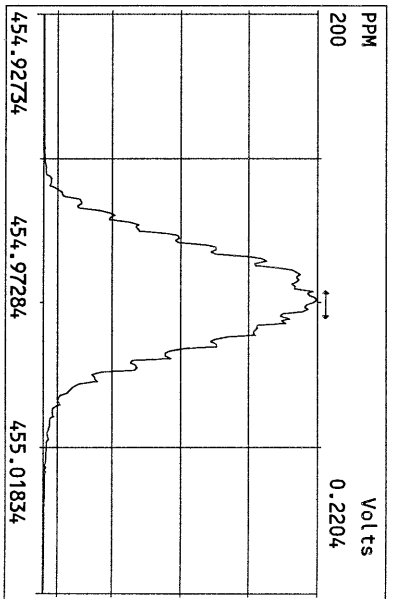
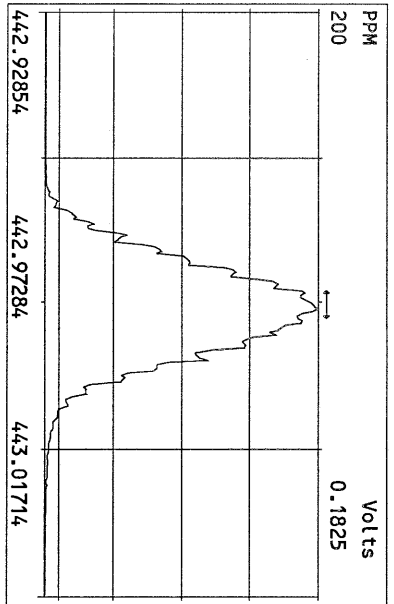
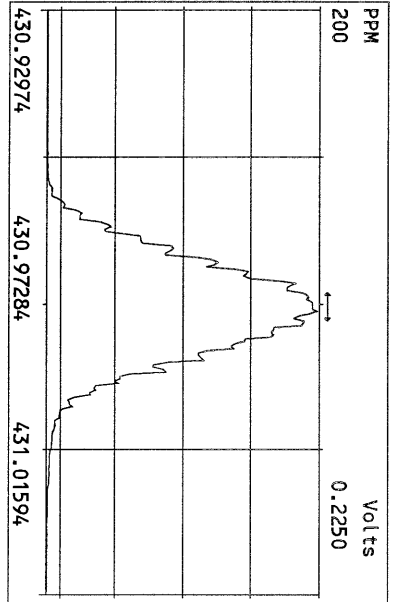












USEPA - ITD

FORM 4A

PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/23/11

Instrument ID: FAL3 GC Column ID: DB5


VER Data Filename: 01FEB11M Sam:1 Analysis Date: 1-FEB-11 14:58:21

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
2,3,7,8-TCDD	M/M+2	0.83	0.65-0.89	y	11.5	7.80 - 12.9 ✓
1,2,3,7,8-PeCDD	M+2/M+4	1.47	1.32-1.78	y	51.1	39.0 - 65.0 ✓
1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	50.9	39.0 - 64.0 ✓
1,2,3,6,7,8-HxCDD	M+2/M+4	1.22	1.05-1.43	y	50.7	39.0 - 64.0 ✓
1,2,3,7,8,9-HxCDD	M+2/M+4	1.21	1.05-1.43	y	53.2	41.0 - 61.0 ✓
1,2,3,4,6,7,8-HpCDD	M+2/M+4	0.92	0.88-1.20	y	45.4	43.0 - 58.0 ✓
OCDD	M+2/M+4	0.87	0.76-1.02	y	102	79.0 - 126 ✓
2,3,7,8-TCDF	M/M+2	0.71	0.65-0.89	y	8.55	8.40 - 12.0 ✓
1,2,3,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	48.4	41.0 - 60.0 ✓
2,3,4,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	46.1	41.0 - 60.0 ✓
1,2,3,4,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	54.5	45.0 - 56.0 ✓
1,2,3,6,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	55.3	44.0 - 57.0 ✓
2,3,4,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	54.2	44.0 - 57.0 ✓
1,2,3,7,8,9-HxCDF	M+2/M+4	1.22	1.05-1.43	y	54.4	45.0 - 56.0 ✓
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.07	0.88-1.20	y	53.1	45.0 - 55.0 ✓
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.09	0.88-1.20	y	53.8	43.0 - 58.0 ✓
OCDF	M+2/M+4	0.92	0.76-1.02	y	101	63.0 - 159 ✓

(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.

Analyst: 

Date: 2/2/11

FORM 5
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Frontier Analytical Laboratory Episode No.:
Contract No.: SAS No.:
Instrument ID: FAL3 Initial Calibration Date: 8/23/10
RT Window Data Filename: 01FEB11M Sam:1 Analysis Date: 1-FEB-11 Time: 14:58:21
DB-5 IS Data Filename: 01FEB11M Sam:1 Analysis Date: 1-FEB-11 Time: 14:58:21
DB-225 IS Data Filename: Analysis Date: Time:

DB-5 RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	24:18 ✓	1,3,6,8-TCDF (F)	22:57 ✓
1,2,8,9-TCDD (L)	28:15 ✓	1,2,8,9-TCDF (L)	28:29 ✓
1,2,4,7,9-PeCDD (F)	30:10 ✓	1,3,4,6,8-PeCDF (F)	28:19 ✓
1,2,3,8,9-PeCDD (L)	33:44 ✓	1,2,3,8,9-PeCDF (L)	34:09 ✓
1,2,4,6,7,9-HxCDD (F)	36:03 ✓	1,2,3,4,6,8-HxCDF (F)	35:11 ✓
1,2,3,7,8,9-HxCDD (L)	39:08 ✓	1,2,3,7,8,9-HxCDF (L)	39:44 ✓
1,2,3,4,6,7,9-HpCDD (F)	42:45 ✓	1,2,3,4,6,7,8-HpCDF (F)	42:14 ✓
1,2,3,4,6,7,8-HpCDD (L)	44:09 ✓	1,2,3,4,7,8,9-HpCDF (L)	45:05 ✓

(F) = First eluting isomer (DB-5); (L) = Last eluting isomer (DB-5)

=====

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

<25%

(1) To meet contract requirement, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

Analyst: 

Date: 

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 8/23/11

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 1-FEB-11 14:58:21

CS3 or VER Data Filename: 01FEB11M

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		1.000	0.999-1.002 ✓
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF		1.000	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			1.241	1.000-1.567 ✓
13C-1,2,3,7,8-PeCDF			1.175	0.923-1.203 ✓
13C-2,3,4,7,8-PeCDF			1.225	0.923-1.303 ✓

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Analyst: _____



Date: _____



PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 8/23/11


Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 1-FEB-11 14:58:21 CS3 or VER Data Filename: 01FEB11M Sam:1

NATIVE ANALYTES	RETENTION TIME		RRT	RRT	QC LIMITS (1)
	REFERENCE				
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		1.000		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		1.001		0.999-1.001 ✓
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF		1.001		0.997-1.005 ✓
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF		1.001		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		1.001		0.999-1.001 ✓
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF		1.000		0.999-1.001 ✓
OCDD	13C-OCDD		1.000		0.999-1.001 ✓
OCDF	13C-OCDF		1.001		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			1.015		0.977-1.047 ✓
13C-1,2,3,4,6,7,8-HpCDD			1.128		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			1.152		1.057-1.154 ✓
13C-OCDD			1.270		1.032-1.311 ✓
13C-OCDF			1.280		1.000-1.311 ✓


(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Analyst: Date: 2/2/11

Results: GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 102

Name	Resp	RA	RT	RRF	WHO 1998 Tox:		WHO 2005 Tox:		DL	118
					Conc	Qual	Fac Noise-1	Noise-2		
2,3,7,8-TCDD	3.64e+06	0.83 y	27:19	1.11	11.5	2.50	-	-	*	
1,2,3,7,8-PeCDD	1.54e+07	1.47 y	33:09	1.10	51.1	2.50	-	-	*	
1,2,3,4,7,8-HxCDD	1.38e+07	1.28 y	38:32	1.37	50.9	2.50	-	-	*	
1,2,3,6,7,8-HxCDD	1.31e+07	1.22 y	38:41	1.37	50.7	2.50	-	-	*	
1,2,3,7,8,9-HxCDD	1.40e+07	1.21 y	39:08	1.36	53.2	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	1.00e+07	0.92 y	44:09	1.45	45.4	2.50	-	-	*	
OCDD	1.45e+07	0.87 y	49:42	1.43	102	2.50	-	-	*	
2,3,7,8-TCDF	5.95e+06	0.71 y	26:34	1.50	8.55	2.50	-	-	*	
1,2,3,7,8-PeCDF	1.97e+07	1.60 y	31:24	0.94	48.4	2.50	-	-	*	
2,3,4,7,8-PeCDF	1.81e+07	1.60 y	32:45	0.94	46.1	2.50	-	-	*	
1,2,3,4,7,8-HxCDF	1.62e+07	1.25 y	37:08	0.93	54.5	2.50	-	-	*	
1,2,3,6,7,8-HxCDF	1.98e+07	1.25 y	37:21	0.82	55.3	2.50	-	-	*	
2,3,4,6,7,8-HxCDF	1.68e+07	1.24 y	38:17	0.92	54.2	2.50	-	-	*	
1,2,3,7,8,9-HxCDF	1.80e+07	1.22 y	39:44	1.00	54.4	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDF	1.32e+07	1.07 y	42:14	1.39	53.1	2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	9.35e+06	1.09 y	45:05	1.36	53.8	2.50	-	-	*	
OCDF	1.43e+07	0.92 y	50:05	0.79	101	2.50	-	-	*	
										Rec
13C-2,3,7,8-TCDD	2.86e+07	0.75 y	27:17	1.02	92.2					92.2
13C-1,2,3,7,8-PeCDD	2.74e+07	1.71 y	33:08	0.84	107					107
13C-1,2,3,4,7,8-HxCDD	1.98e+07	1.23 y	38:30	1.07	100					100
13C-1,2,3,6,7,8-HxCDD	1.89e+07	1.23 y	38:40	1.01	101					101
13C-1,2,3,4,6,7,8-HpCDD	1.52e+07	0.99 y	44:08	0.86	96.9					96.9
13C-OCDD	1.97e+07	0.97 y	49:41	0.55	197					98.4
13C-2,3,7,8-TCDF	4.64e+07	0.88 y	26:33	0.99	90.0					90.0
13C-1,2,3,7,8-PeCDF	4.32e+07	1.70 y	31:24	0.84	99.5					99.5
13C-2,3,4,7,8-PeCDF	4.18e+07	1.69 y	32:43	0.81	99.4					99.4
13C-1,2,3,4,7,8-HxCDF	3.20e+07	0.48 y	37:07	1.85	94.1					94.1
13C-1,2,3,6,7,8-HxCDF	4.37e+07	0.47 y	37:19	2.54	93.8					93.8
13C-2,3,4,6,7,8-HxCDF	3.37e+07	0.45 y	38:16	2.01	91.0					91.0
13C-1,2,3,7,8,9-HxCDF	3.32e+07	0.49 y	39:42	2.03	89.1					89.1
13C-1,2,3,4,6,7,8-HpCDF	1.79e+07	0.49 y	42:13	1.11	87.9					87.9
13C-1,2,3,4,7,8,9-HpCDF	1.28e+07	0.50 y	45:04	0.80	86.9					86.9
13C-OCDF	3.61e+07	0.90 y	50:04	1.08	181					90.7
37Cl-2,3,7,8-TCDD	2.06e+06		27:19	0.69	9.95					99.5
13C-1,2,3,4-TCDD	3.03e+07	0.76 y	26:43	-	67.4					
13C-1,2,3,4-TCDF	5.18e+07	0.88 y	25:27	-	71.6					
13C-1,2,3,7,8,9-HxCDD	1.84e+07	1.21 y	39:07	-	66.6					
Total Tetra-Dioxins	1.92e+07		23:43	1.11	60.4	2.50	-	-	*	32
Total Penta-Dioxins	3.41e+07		30:10	1.10	113	2.50	-	-	*	13
Total Hexa-Dioxins	4.80e+07		36:03	1.37	182	2.50	-	-	*	23
Total Hepta-Dioxins	2.25e+07		42:45	1.45	102	2.50	-	-	*	40
Total Tetra-Furans	2.95e+07		22:57	1.50	42.3	2.50	-	-	*	28
1st Fn. Tot Penta-Furans	2.34e+07		28:19	0.94	58.8	2.50	-	-	*	PeCDF 2
Total Penta-Furans	5.50e+07		30:05	0.94	138	2.50	-	-	*	197 19
Total Hexa-Furans	8.33e+07		35:11	0.91	257	2.50	-	-	*	21
Total Hepta-Furans	2.37e+07		42:14	1.38	112	2.50	-	-	*	32

Analyst: 

Date: 

Frontier Analytical Laboratory - Acquisition Log

Run Name:01FEB11M

Instrument: FAL3

GC: DB5

Experiment:OCDD

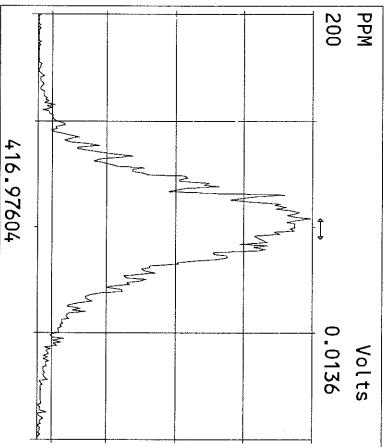
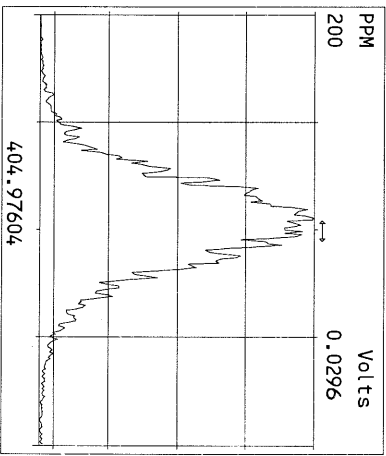
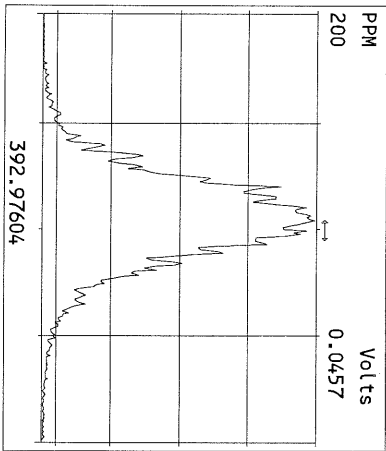
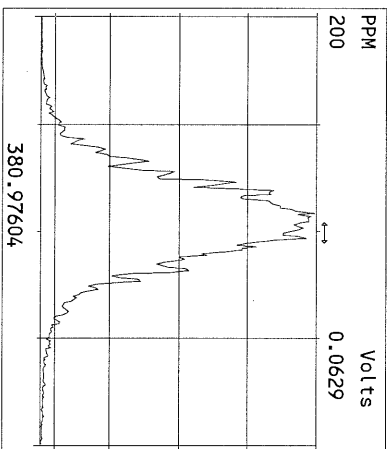
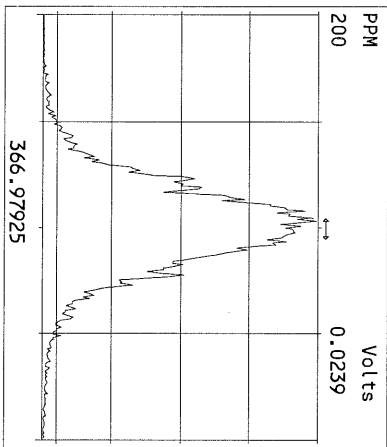
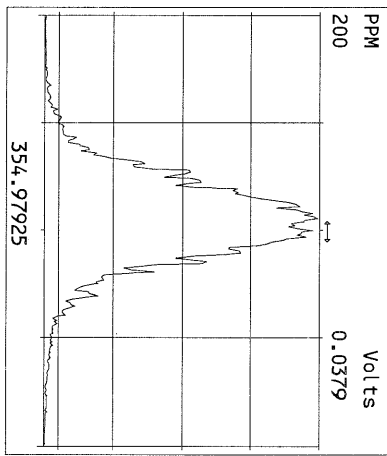
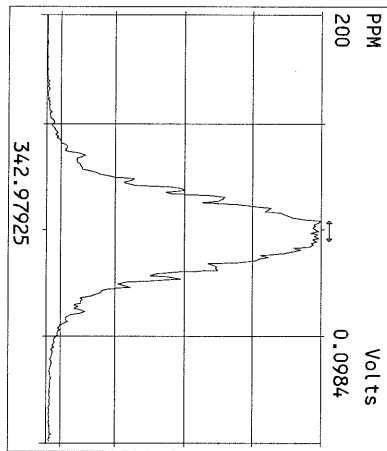
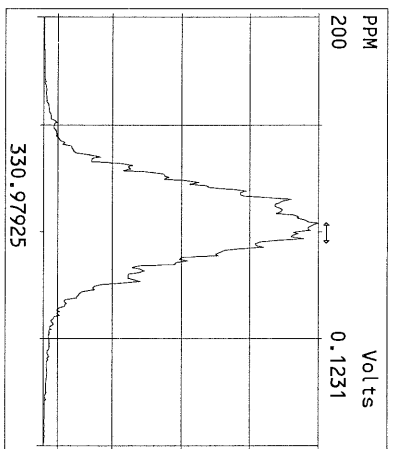
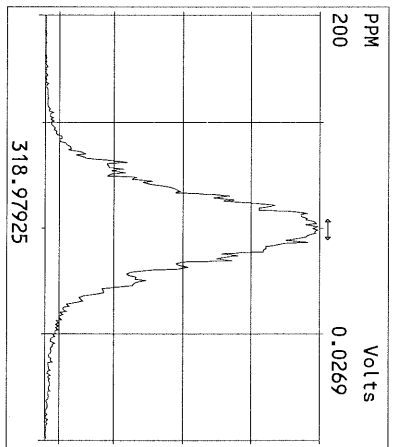
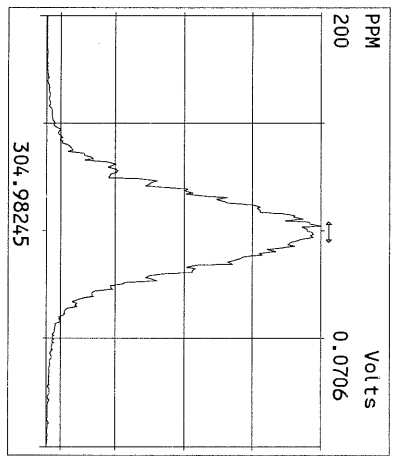
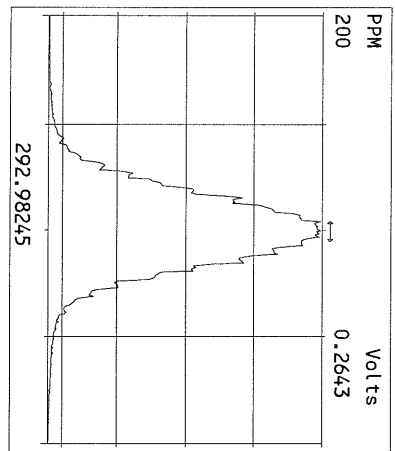
Data File S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
01FEB11M 1	ST020111M1	1613 CS3 100511J	1-FEB-11 14:58:21	ST020111M1	ST020111M2	TC
01FEB11M 2	2207-001-0001-OPR	OPR	1-FEB-11 15:53:43	ST020111M1	ST020111M2	TC
01FEB11M 3	2207-001-0001-MB	Method Blank	1-FEB-11 16:49:06	ST020111M1	ST020111M2	TC
01FEB11M 4	6546-001-0001-SA	MW-05-012111	1-FEB-11 17:44:25	ST020111M1	ST020111M2	TC
01FEB11M 5	6546-002-0001-SA	MW-02-012111	1-FEB-11 18:39:44	ST020111M1	ST020111M2	TC
01FEB11M 6	6546-003-0001-SA	MW-09-012111	1-FEB-11 19:35:02	ST020111M1	ST020111M2	TC
01FEB11M 7	6546-004-0001-SA	MW-08-012111	1-FEB-11 20:30:17	ST020111M1	ST020111M2	TC
01FEB11M 8	6546-005-0001-SA	MW-01-012111	1-FEB-11 21:25:37	ST020111M1	ST020111M2	TC
01FEB11M 9	6546-006-0001-SA	MW-01-012111-D	1-FEB-11 22:20:56	ST020111M1	ST020111M2	TC
01FEB11M 10	6547-001-0001-SA	MW11-011911	1-FEB-11 23:16:15	ST020111M1	ST020111M2	TC
01FEB11M 11	6547-002-0001-SA	MW10-011911	2-FEB-11 00:11:34	ST020111M1	ST020111M2	TC
01FEB11M 12	6547-003-0001-SA	MW07-011911	2-FEB-11 01:06:52	ST020111M1	ST020111M2	TC
01FEB11M 13	6547-004-0001-SA	MW14-011911	2-FEB-11 02:02:10	ST020111M1	ST020111M2	TC
01FEB11M 14	ST020111M2	1613 CS3 100511J	2-FEB-11 02:57:29	ST020111M1	ST020111M2	TC
01FEB11M 15	SB020111M1	Solvent Blank	2-FEB-11 03:52:48	ST020111M1	ST020111M2	TC

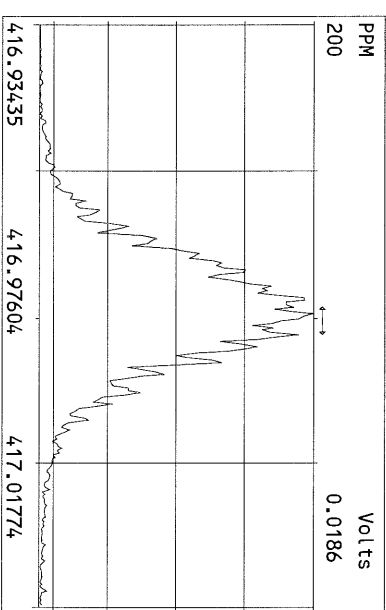
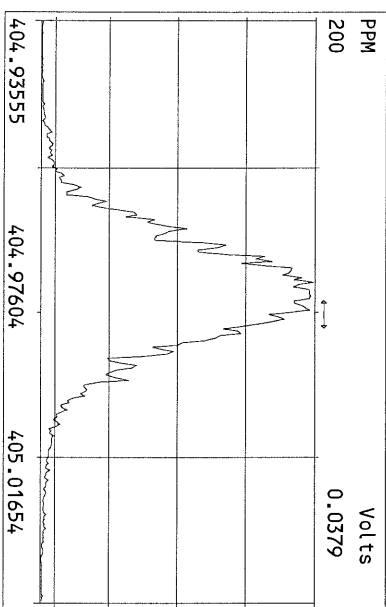
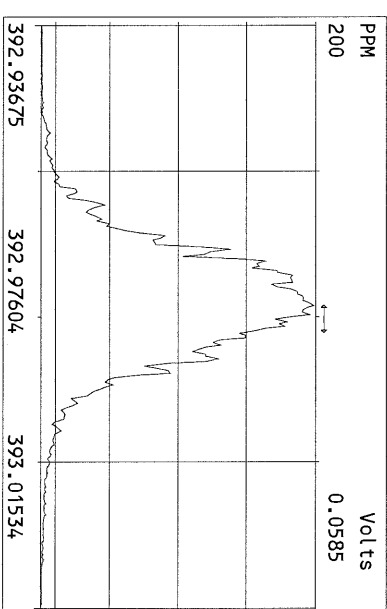
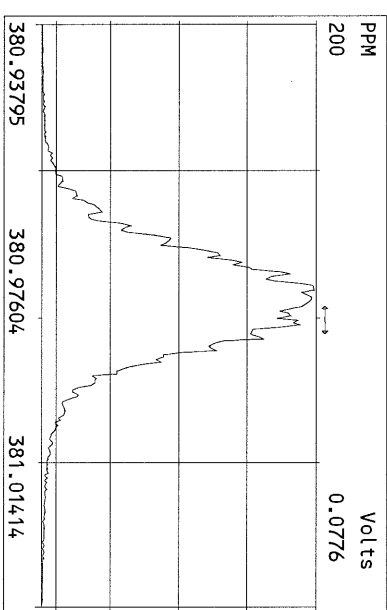
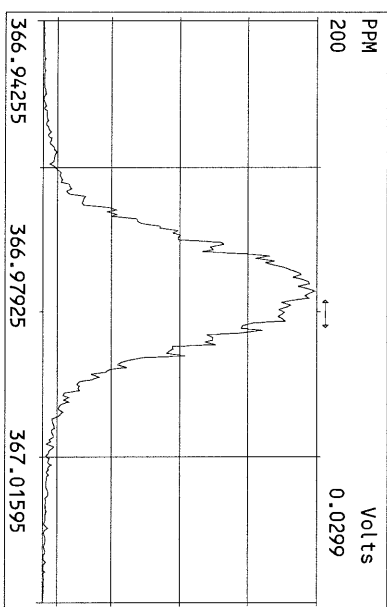
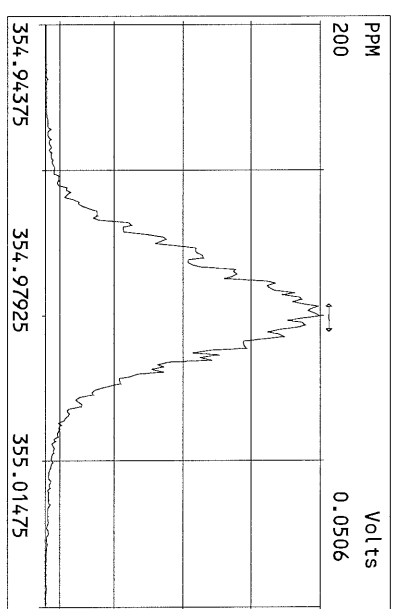
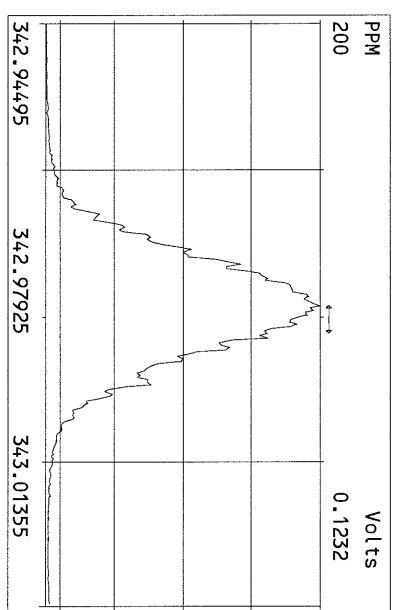
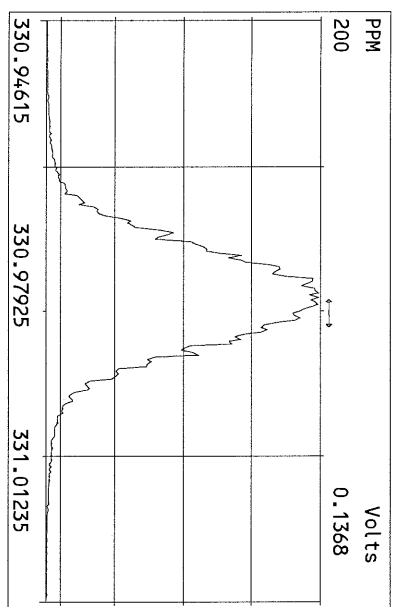
[Handwritten signature]

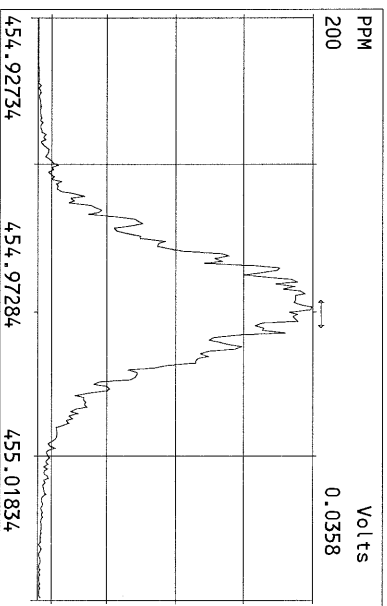
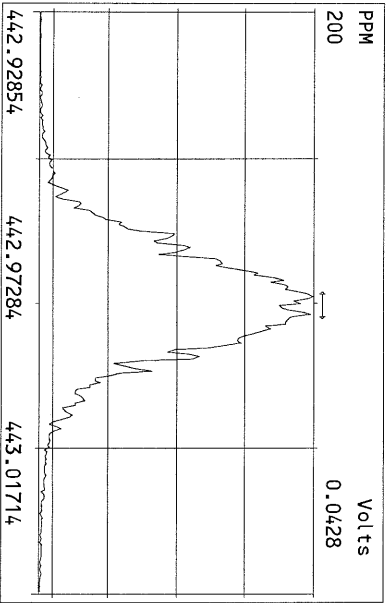
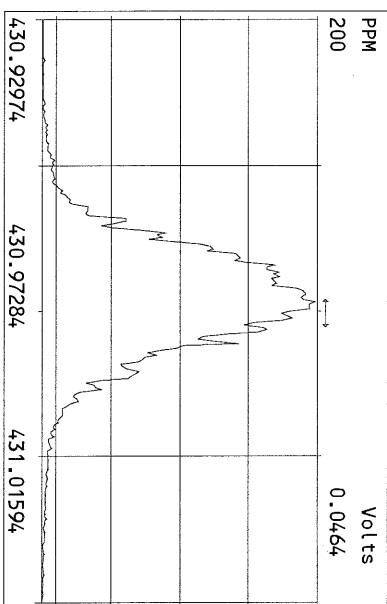
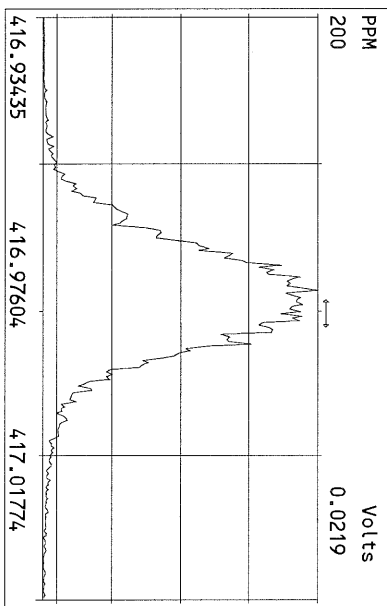
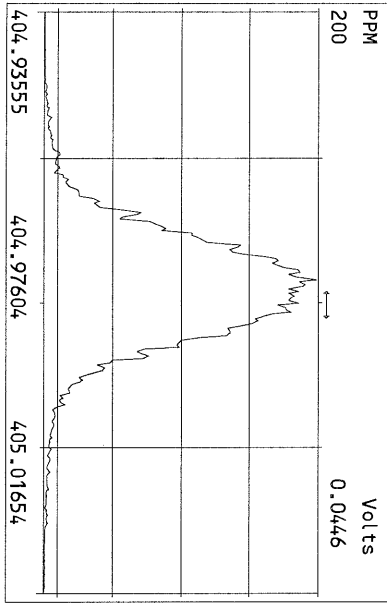
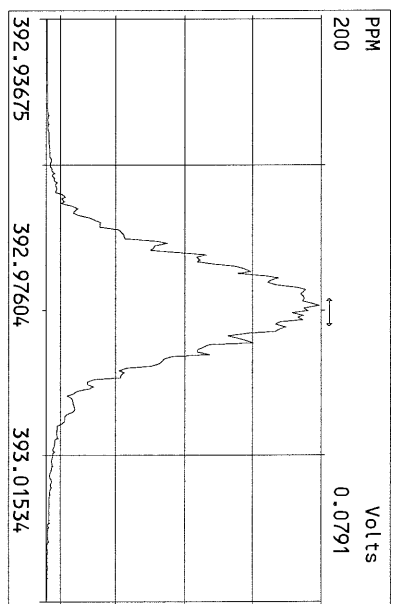
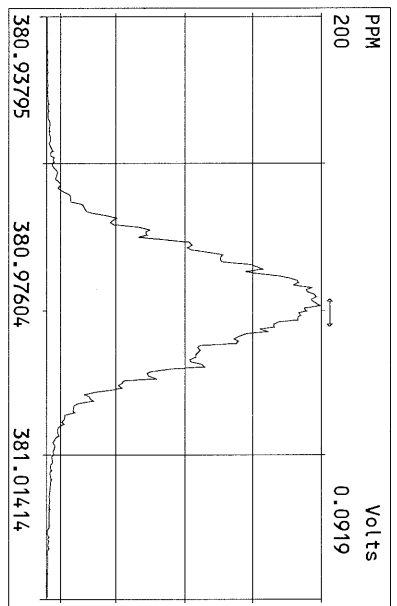
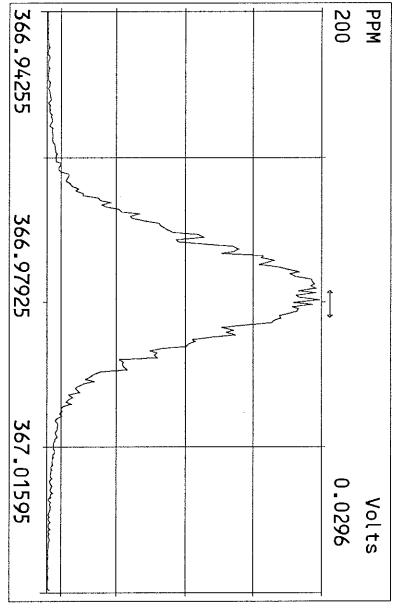
[Handwritten mark]

Data Backed Up: _____

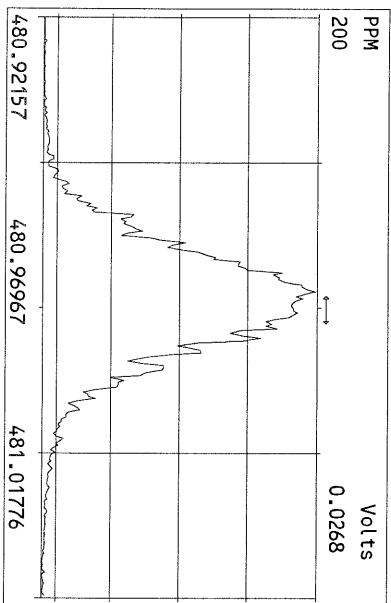
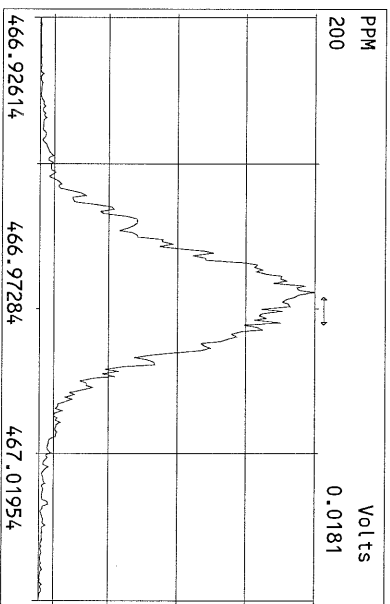
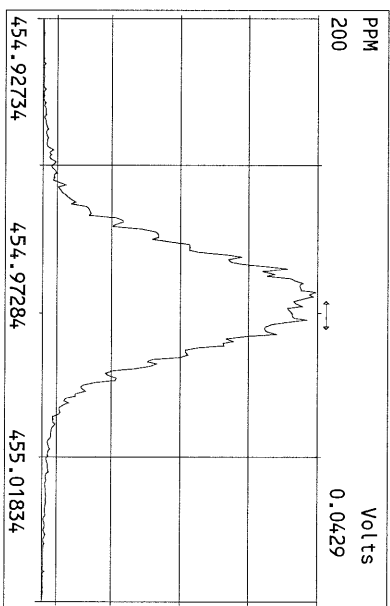
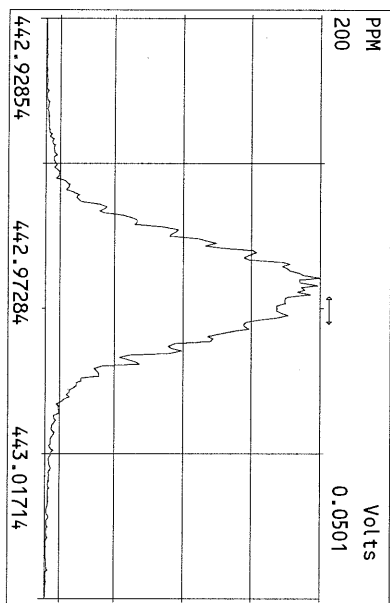
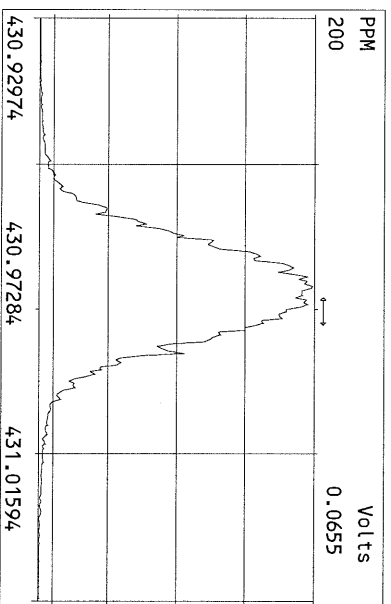
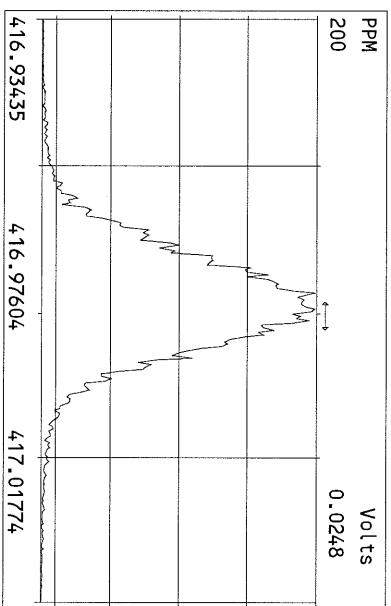
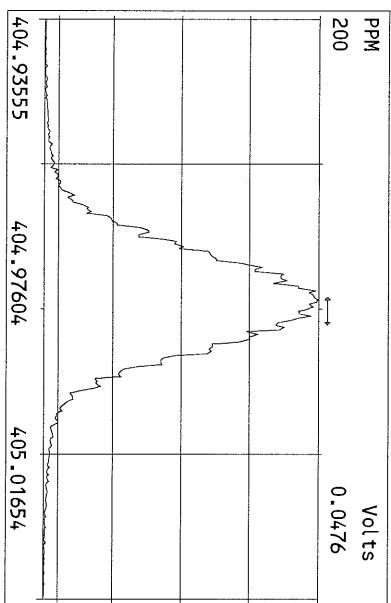
Date: _____

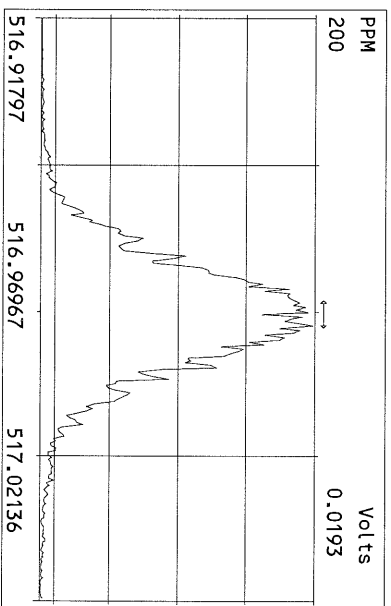
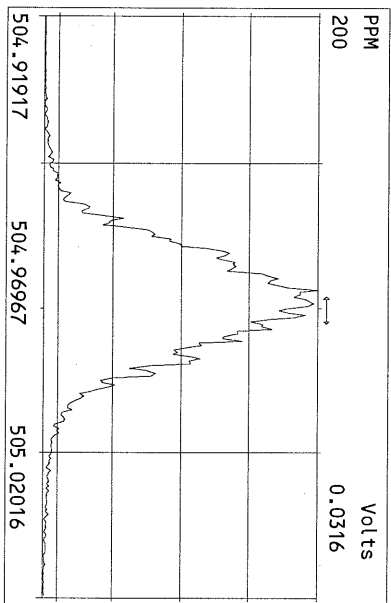
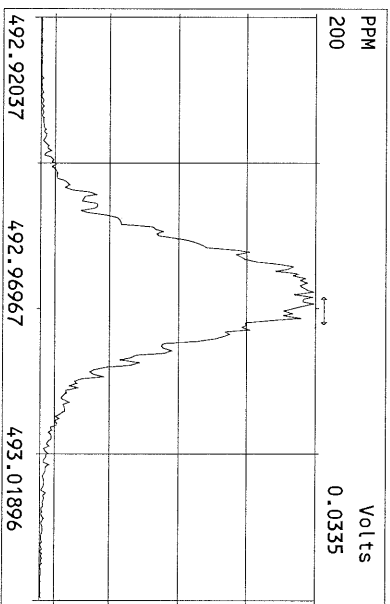
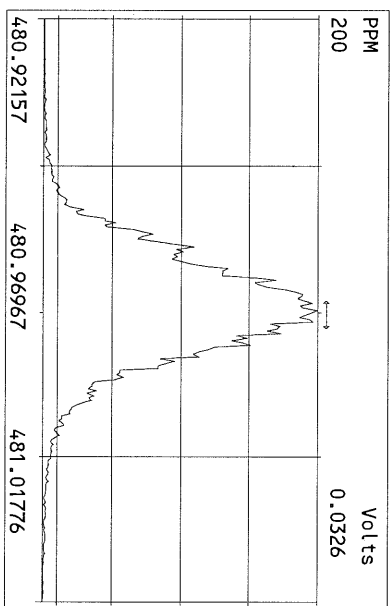
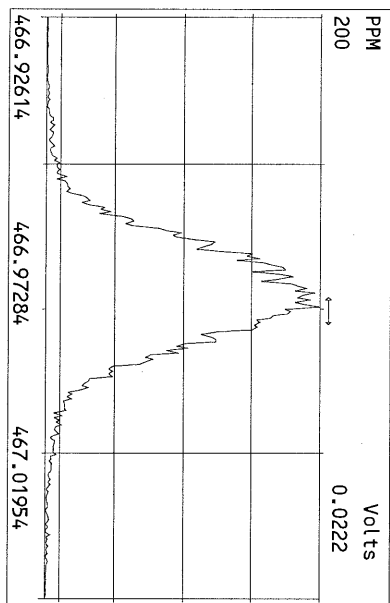
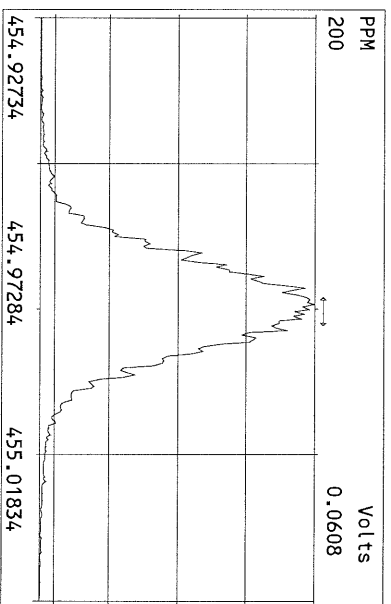
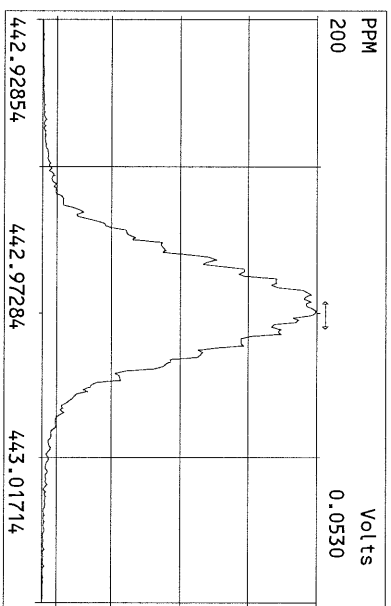
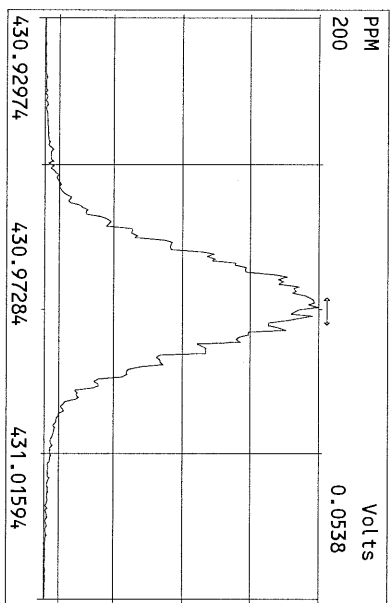




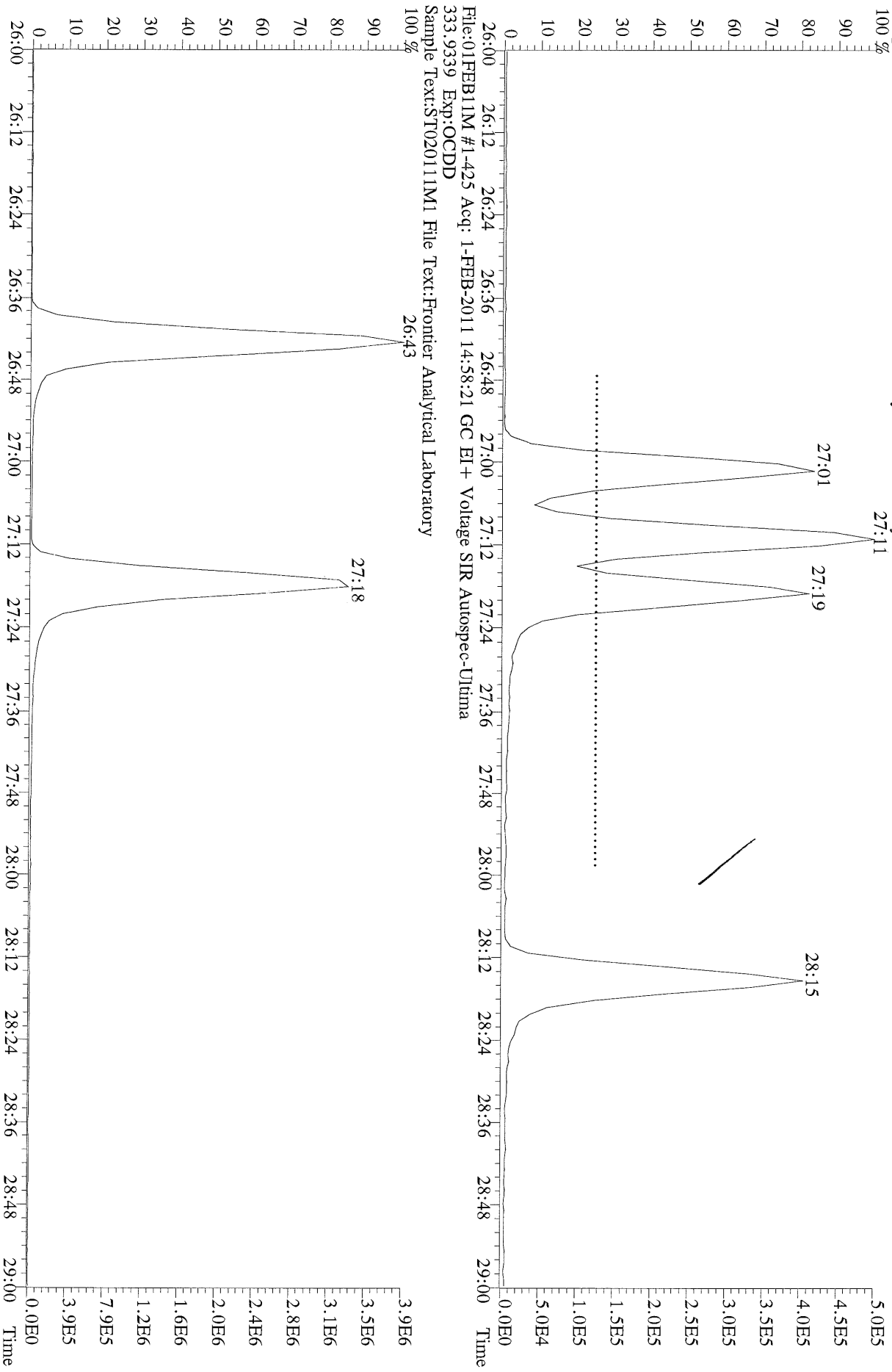


Peak Locate Examination: 1-FEB-2011:14:57 File:01FEB11M
Experiment:0CDD Function:4 Reference:PFK



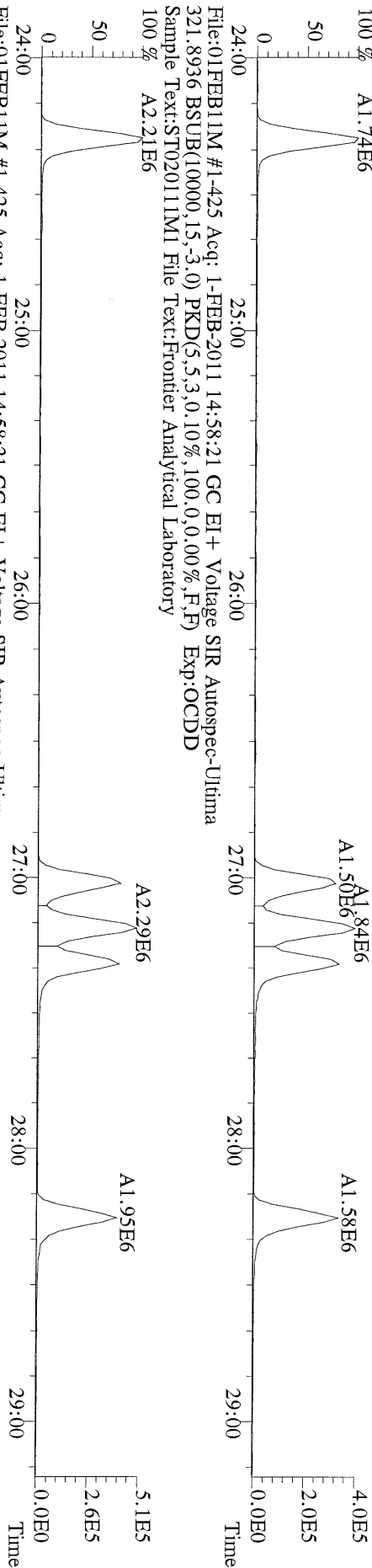


File:01FEB11M #1-425 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
321.8936 Exp:OCDD
Sample Text:ST02011M1 File Text:Frontier Analytical Laboratory
100%

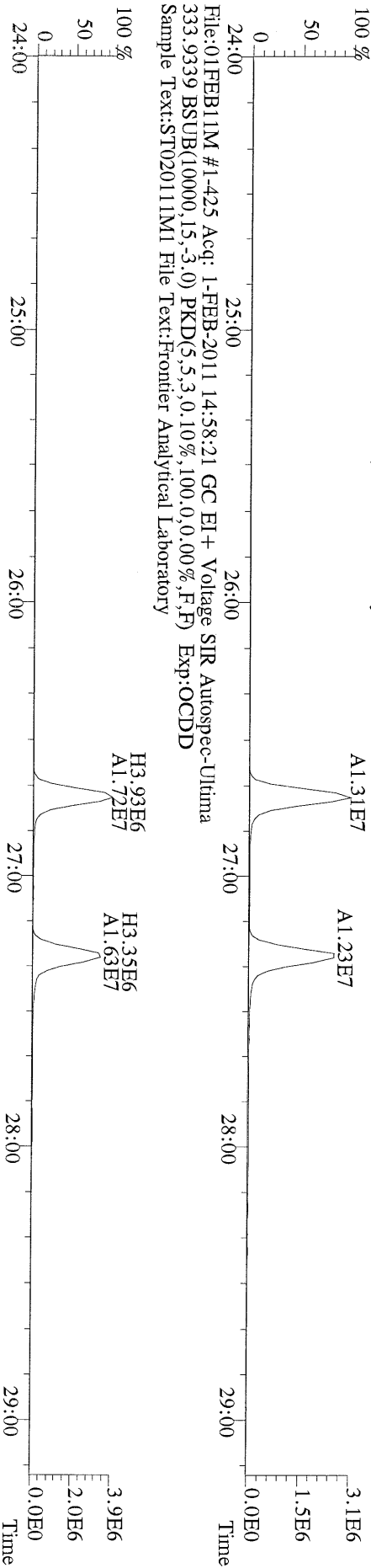


File:01FEB11M #1-425 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
333.9339 Exp:OCDD
Sample Text:ST02011M1 File Text:Frontier Analytical Laboratory
100%

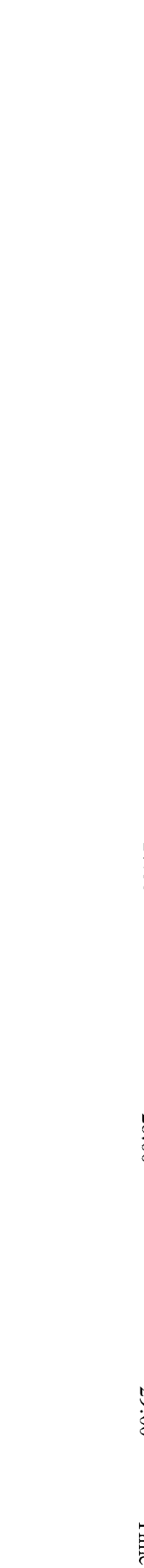
File:01FEB11M #1-425 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Utima
319.8965 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory
100 % A1.74E6



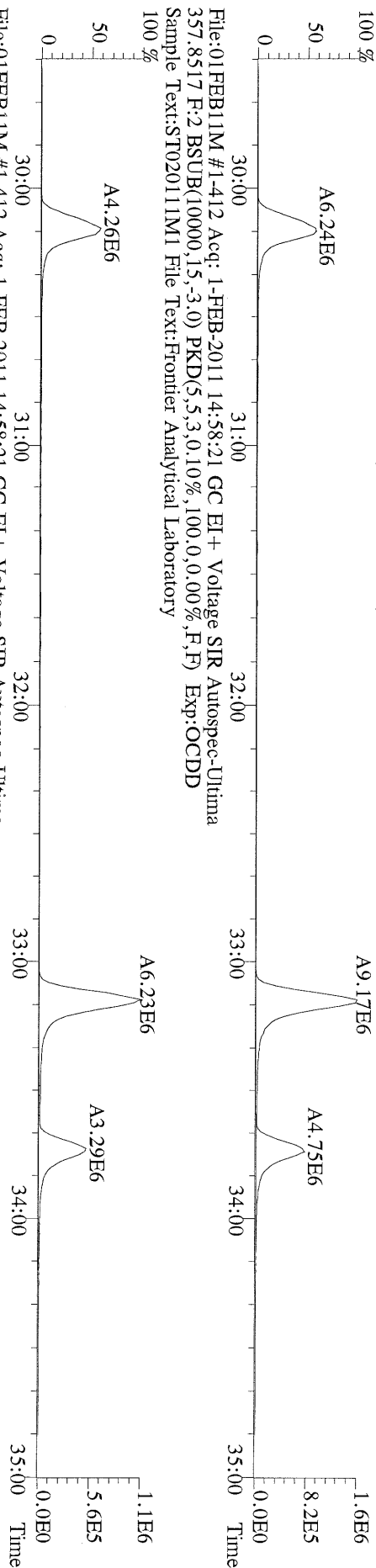
File:01FEB11M #1-425 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Utima
321.8936 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory
100 % A2.21E6



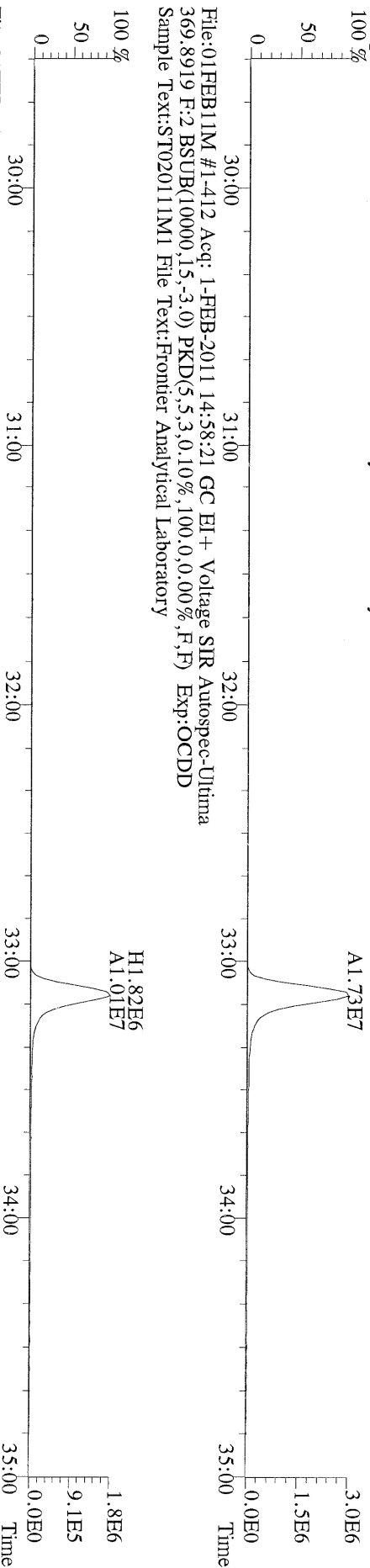
File:01FEB11M #1-425 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Utima
333.9339 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory



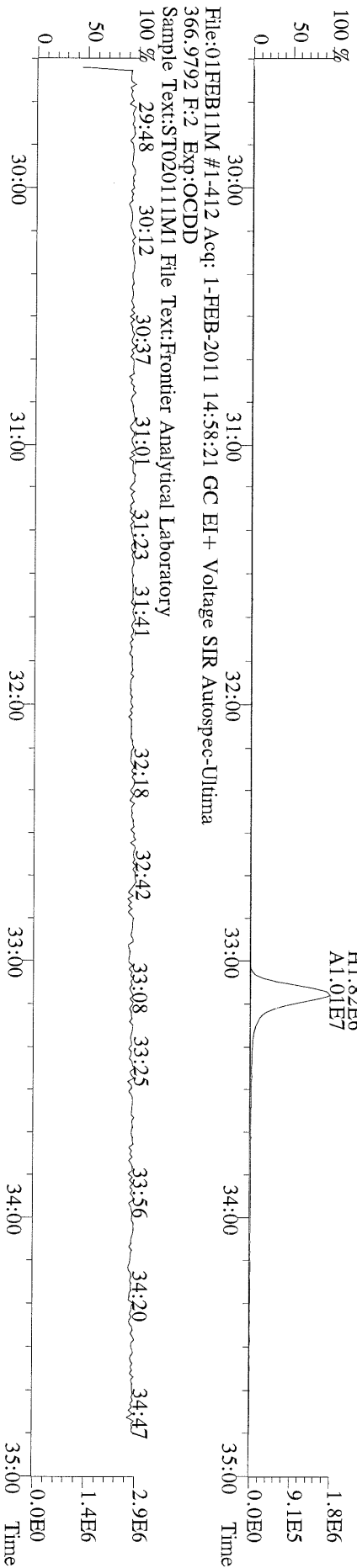
File:01FEB11M #1-412 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M1 File Text:Frontier Analytical Laboratory



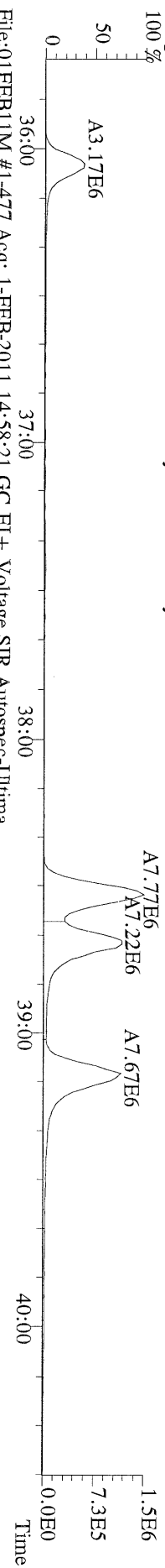
File:01FEB11M #1-412 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
367.8949 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M1 File Text:Frontier Analytical Laboratory



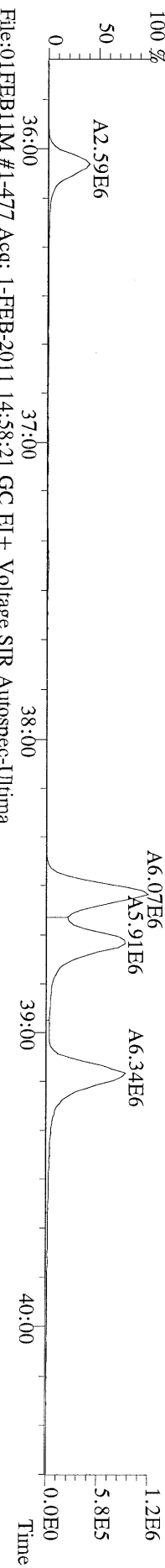
File:01FEB11M #1-412 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
369.8919 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M1 File Text:Frontier Analytical Laboratory



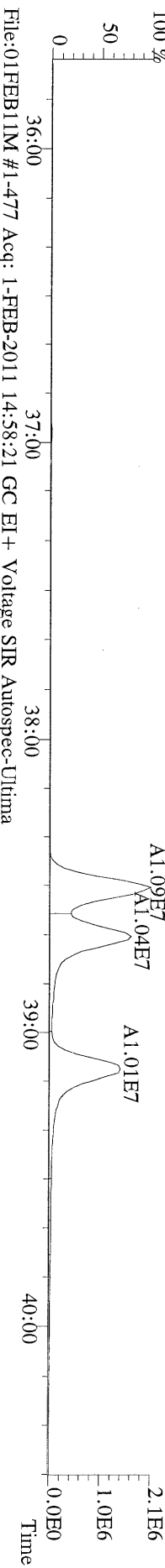
File:01FEB11M #1-477 Acq: 1-FEB-2011 14:58:21 GC EI + Voltage SIR Autospec-Ultima
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory



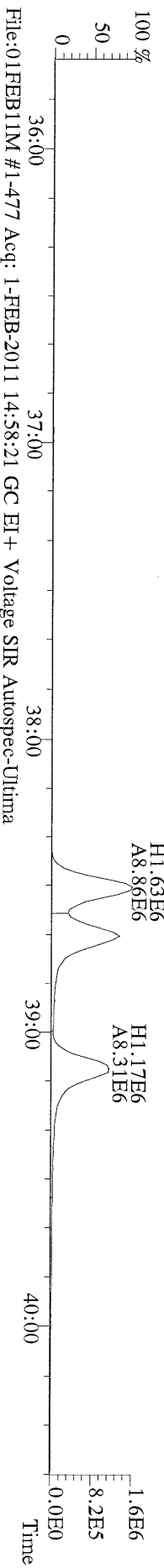
File:01FEB11M #1-477 Acq: 1-FEB-2011 14:58:21 GC EI + Voltage SIR Autospec-Ultima
391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory



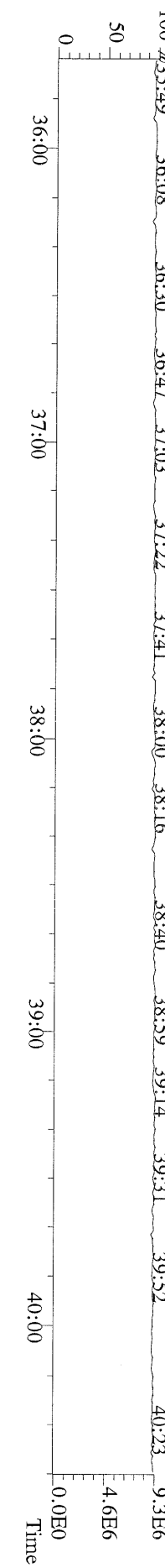
File:01FEB11M #1-477 Acq: 1-FEB-2011 14:58:21 GC EI + Voltage SIR Autospec-Ultima
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory



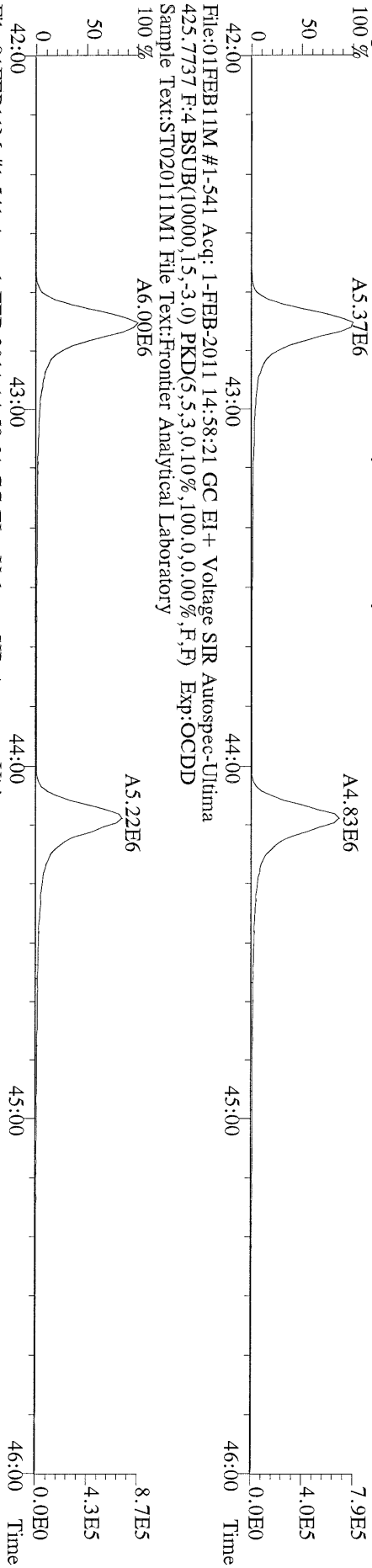
File:01FEB11M #1-477 Acq: 1-FEB-2011 14:58:21 GC EI + Voltage SIR Autospec-Ultima
403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory



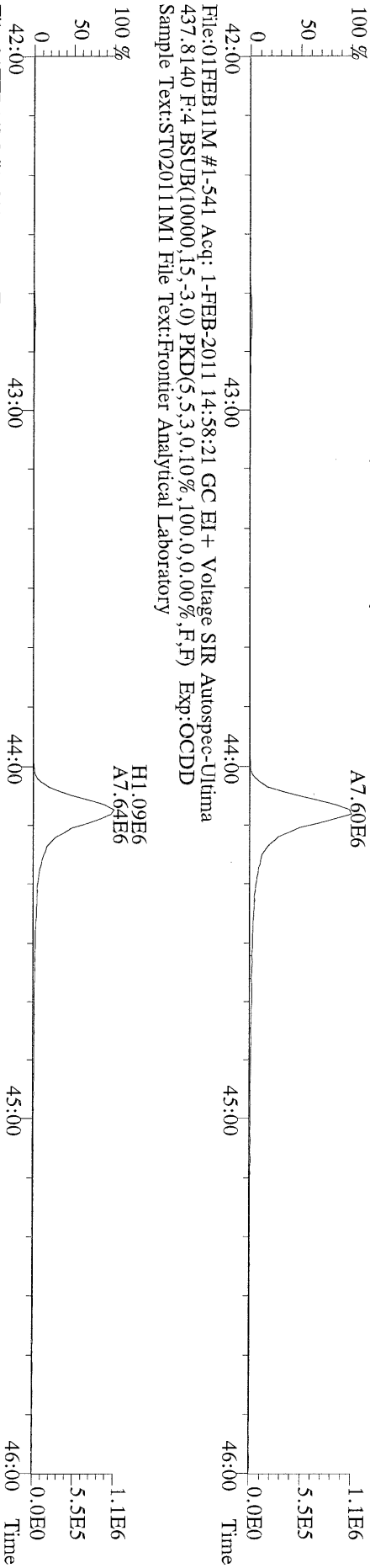
File:01FEB11M #1-477 Acq: 1-FEB-2011 14:58:21 GC EI + Voltage SIR Autospec-Ultima
380.9760 F:3 Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory



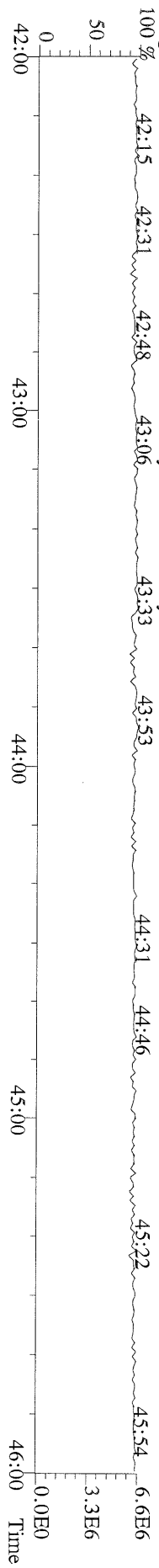
File:01FEB11M #1-541 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011IM1 File Text:Frontier Analytical Laboratory



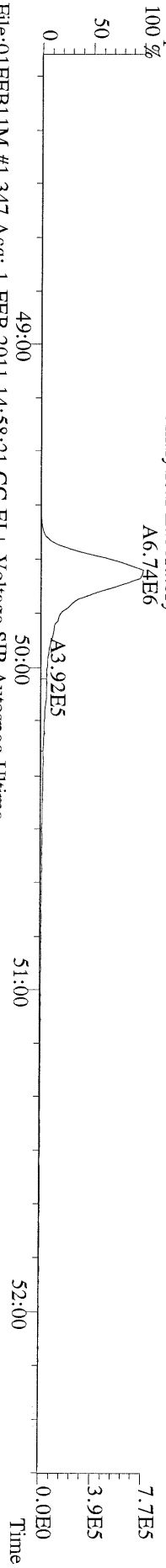
File:01FEB11M #1-541 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011IM1 File Text:Frontier Analytical Laboratory



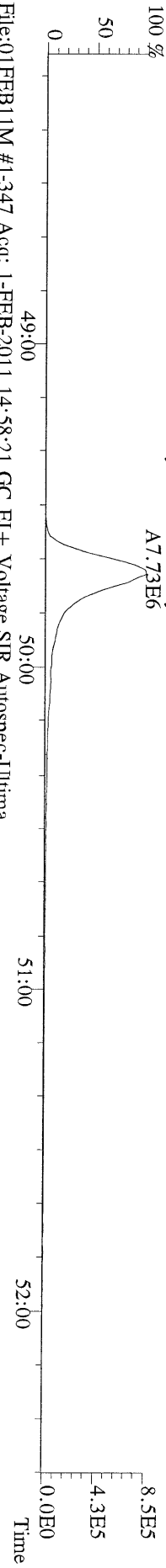
File:01FEB11M #1-541 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
430.9728 F:4 Exp:OCDD
Sample Text:ST02011IM1 File Text:Frontier Analytical Laboratory



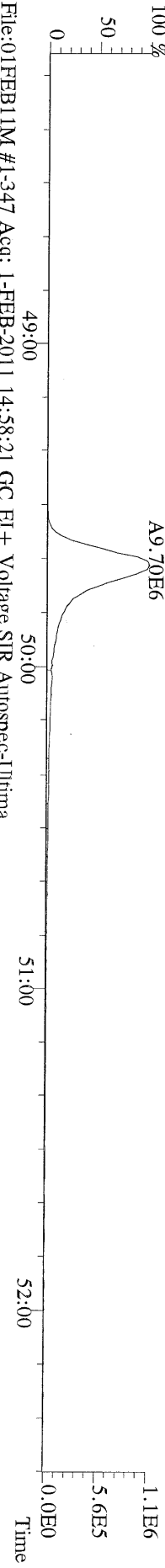
File:01FEB11M #1-347 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
457.7377 F:5 BSUB(10000,15,3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M1 File Text:Frontier Analytical Laboratory
100 %



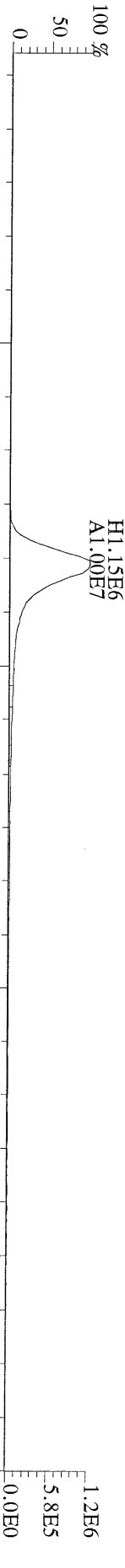
File:01FEB11M #1-347 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
459.7348 F:5 BSUB(10000,15,3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M1 File Text:Frontier Analytical Laboratory
100 %



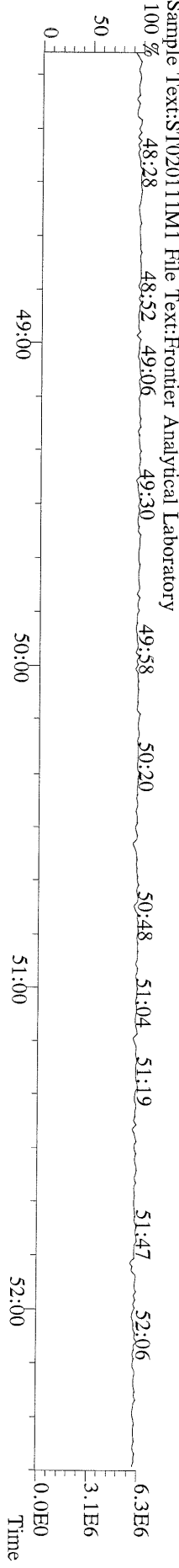
File:01FEB11M #1-347 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
469.7780 F:5 BSUB(10000,15,3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M1 File Text:Frontier Analytical Laboratory
100 %



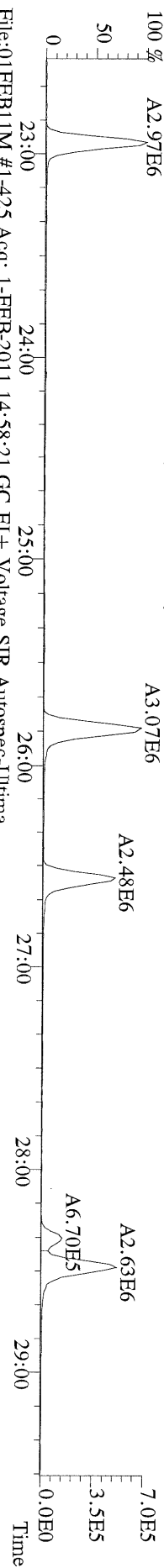
File:01FEB11M #1-347 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
471.7750 F:5 BSUB(10000,15,3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M1 File Text:Frontier Analytical Laboratory



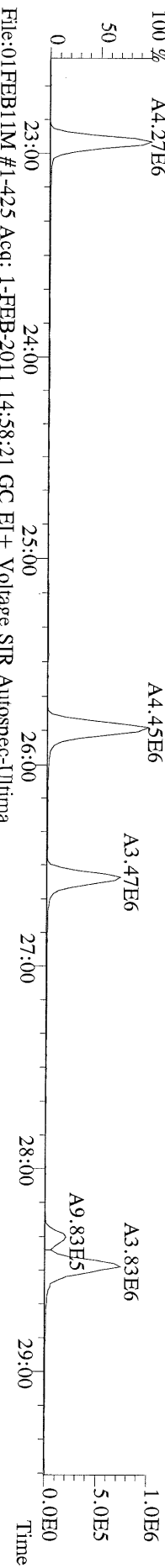
File:01FEB11M #1-347 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
454.9728 F:5 Exp:OCDD
Sample Text:ST02011M1 File Text:Frontier Analytical Laboratory



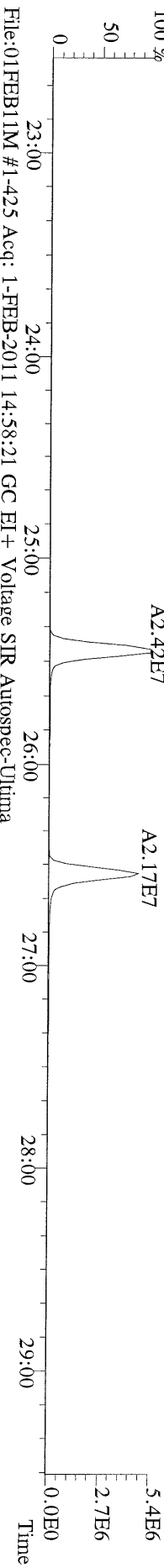
File:01FEB11M #1-425 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
303.9016 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory



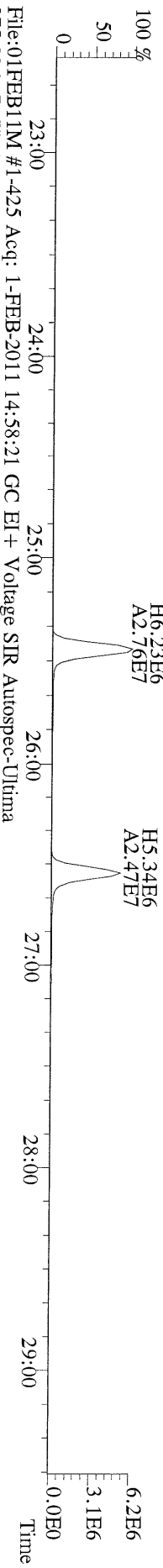
File:01FEB11M #1-425 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
305.8987 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory



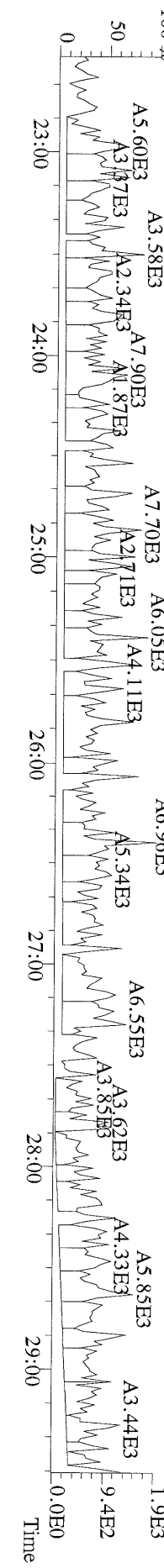
File:01FEB11M #1-425 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
315.9419 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory



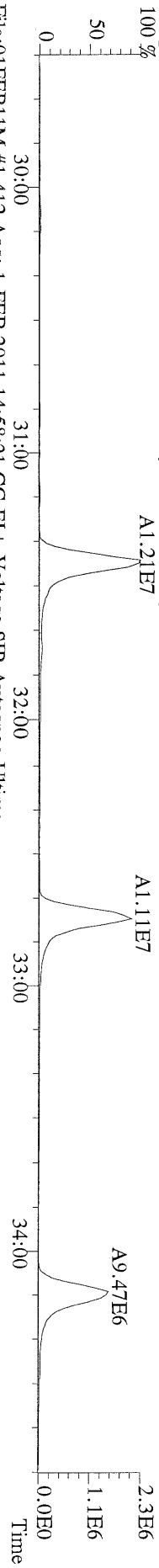
File:01FEB11M #1-425 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
317.9389 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory



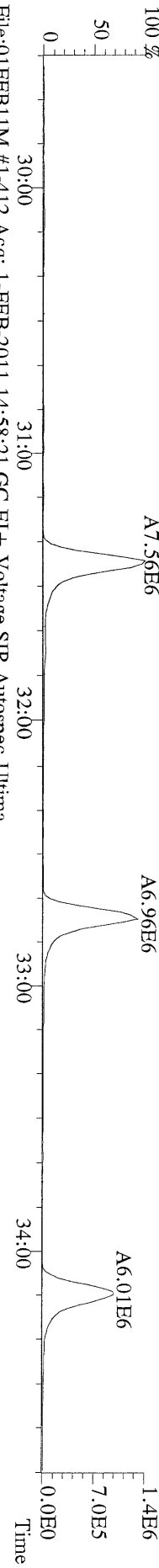
File:01FEB11M #1-425 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
375.8364 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory



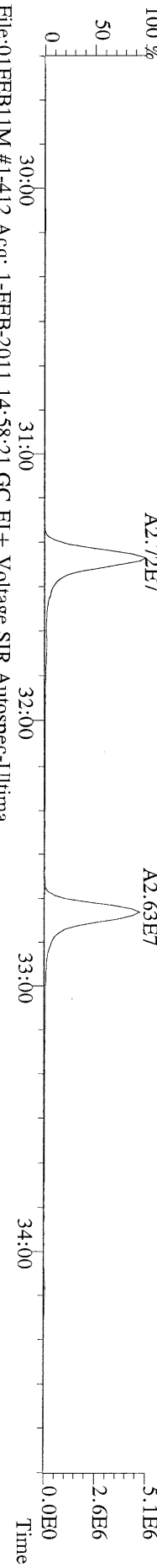
File:01FEB11M #1-412 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
339.8597 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M1 File Text:Fronter Analytical Laboratory



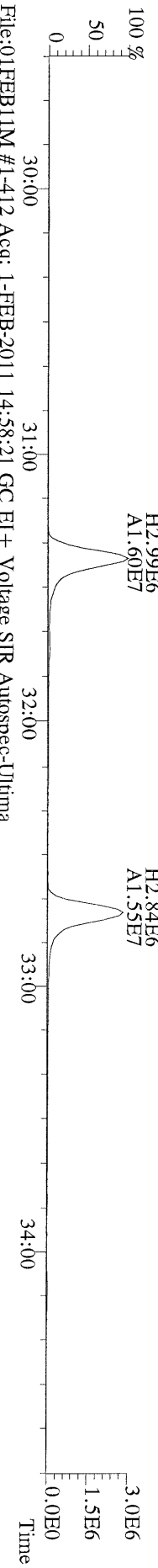
File:01FEB11M #1-412 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
341.8568 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M1 File Text:Fronter Analytical Laboratory



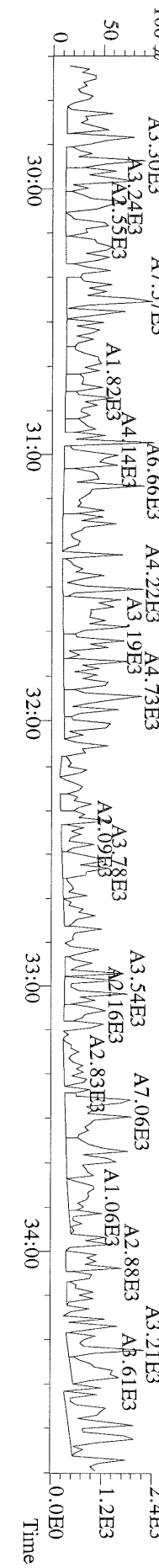
File:01FEB11M #1-412 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
351.9000 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M1 File Text:Fronter Analytical Laboratory



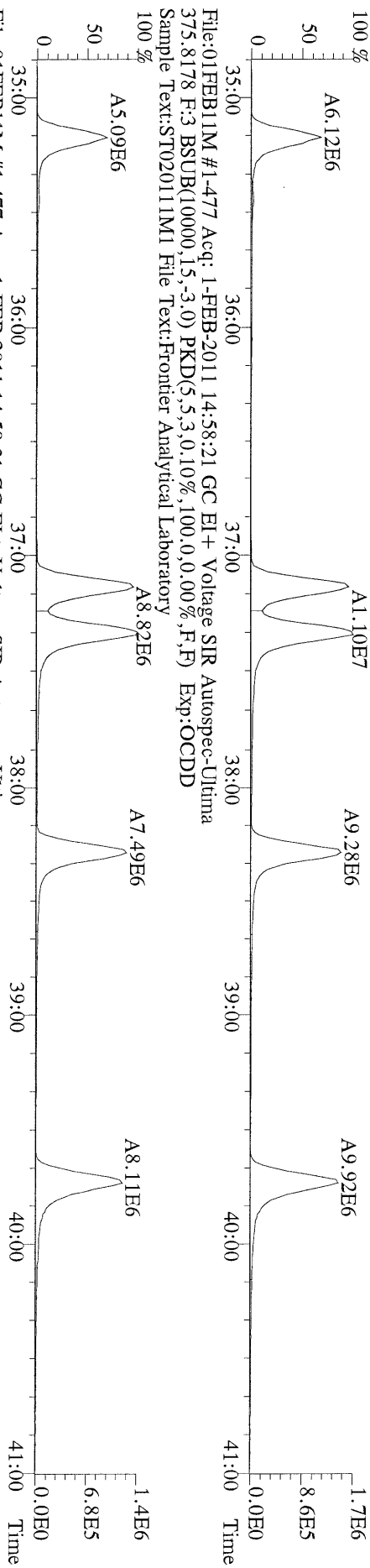
File:01FEB11M #1-412 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
353.8970 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M1 File Text:Fronter Analytical Laboratory



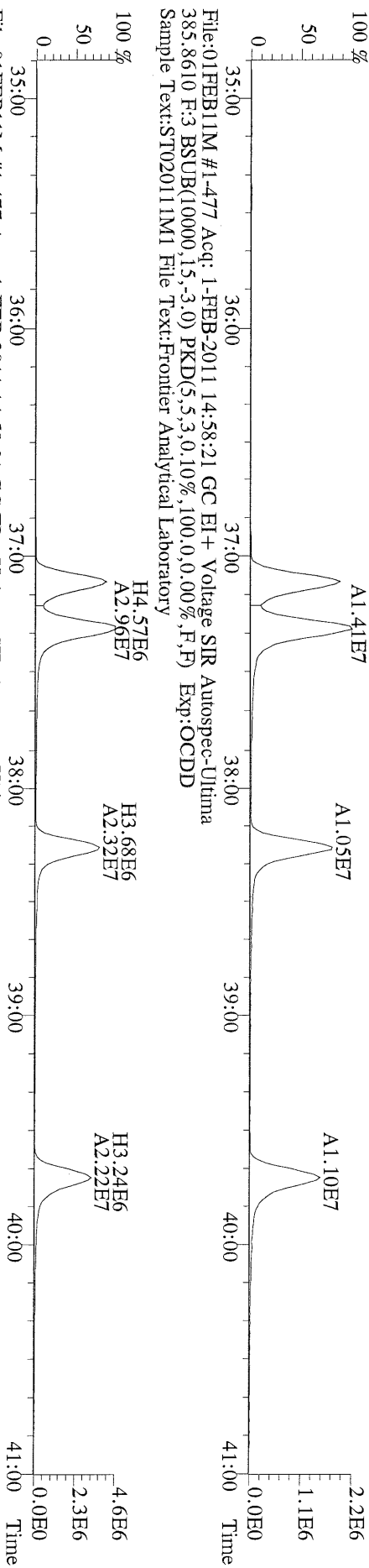
File:01FEB11M #1-412 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
409.7974 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M1 File Text:Fronter Analytical Laboratory



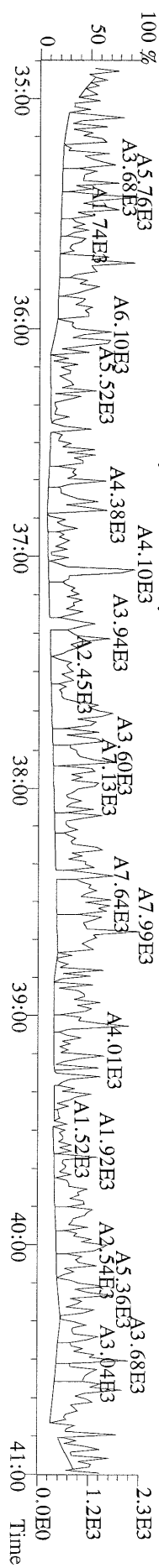
File:01FEB11M #1-477 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
373.8207 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011IM1 File Text:Frontier Analytical Laboratory



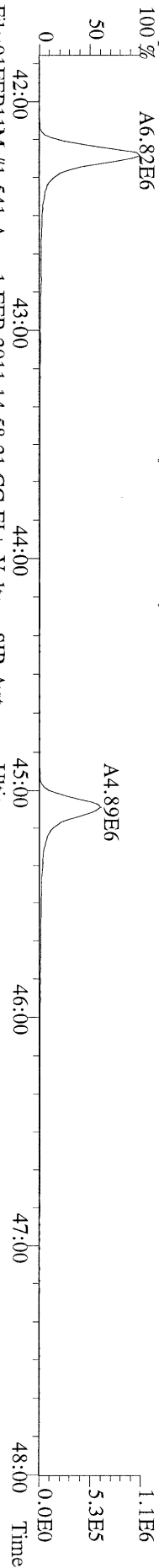
File:01FEB11M #1-477 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
383.8639 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011IM1 File Text:Frontier Analytical Laboratory



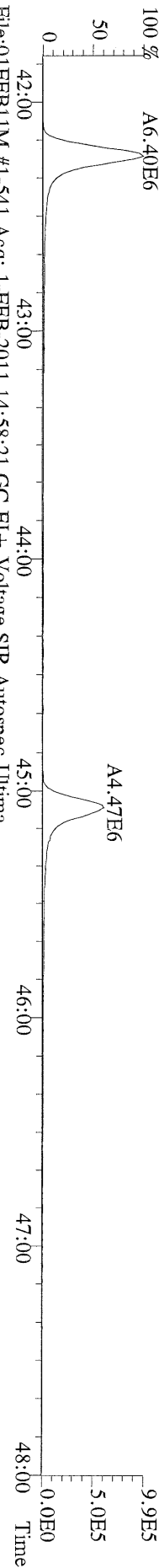
File:01FEB11M #1-477 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
445.7555 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011IM1 File Text:Frontier Analytical Laboratory



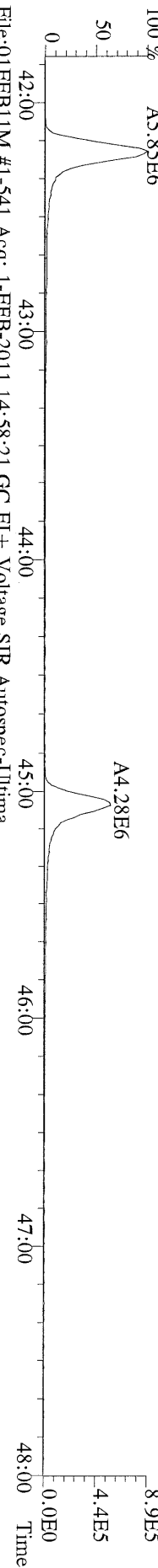
File:01FEB11M #1-541 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
407.7818 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory
100% A6.82E6



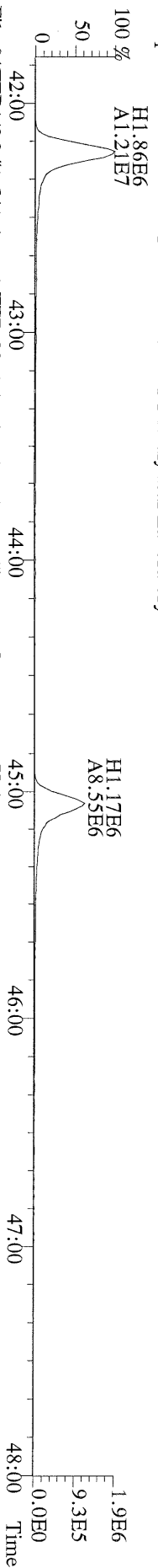
File:01FEB11M #1-541 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
409.7788 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory
100% A6.40E6



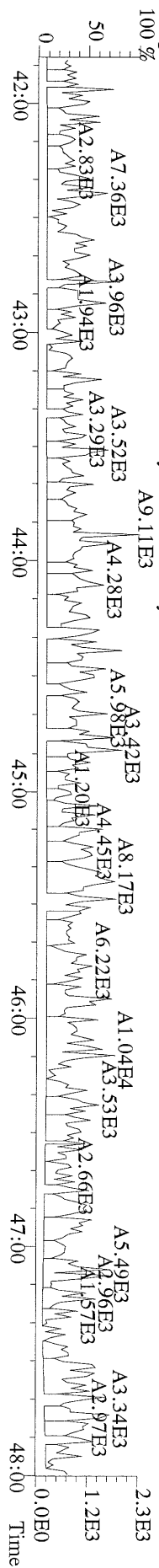
File:01FEB11M #1-541 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
417.8253 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory
100% A5.85E6



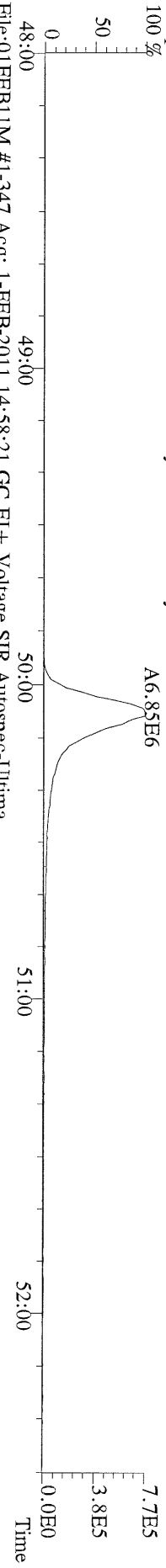
File:01FEB11M #1-541 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
419.8220 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory



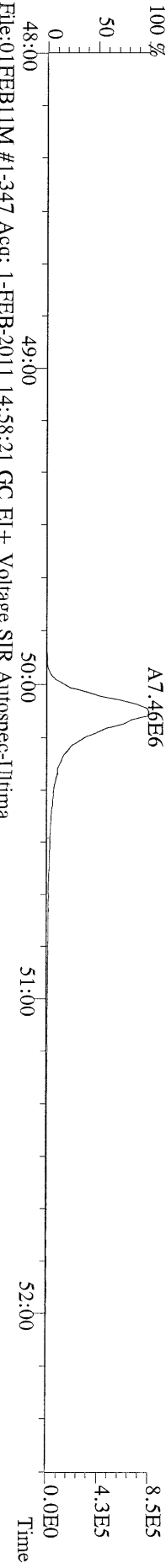
File:01FEB11M #1-541 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
479.7165 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST020111M1 File Text:Frontier Analytical Laboratory
100%



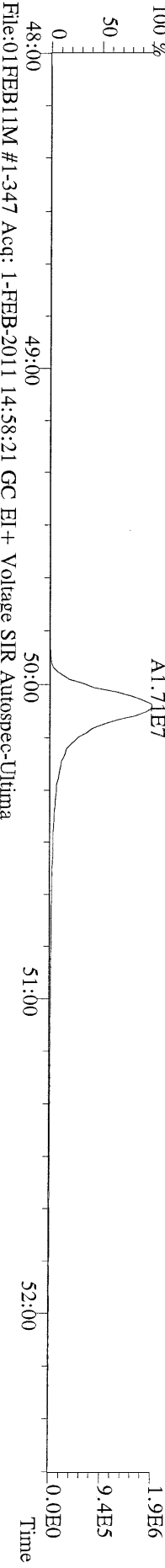
File:01FEB11M #1-347 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
441.7428 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST02011M1 File Text:Fronter Analytical Laboratory
100 %



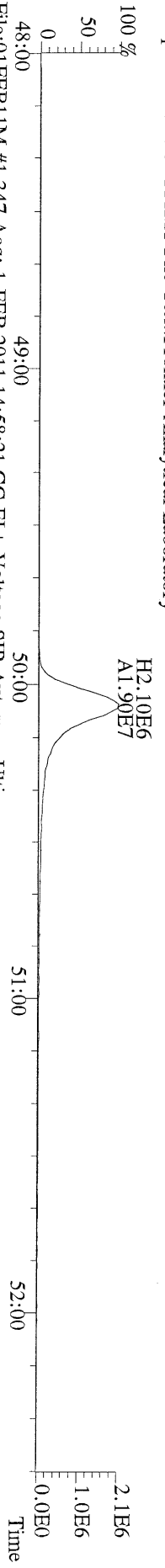
File:01FEB11M #1-347 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
443.7398 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST02011M1 File Text:Fronter Analytical Laboratory
100 %



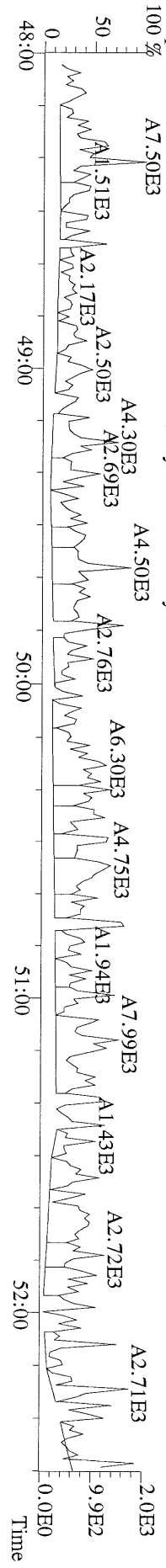
File:01FEB11M #1-347 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
453.7831 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST02011M1 File Text:Fronter Analytical Laboratory
100 %

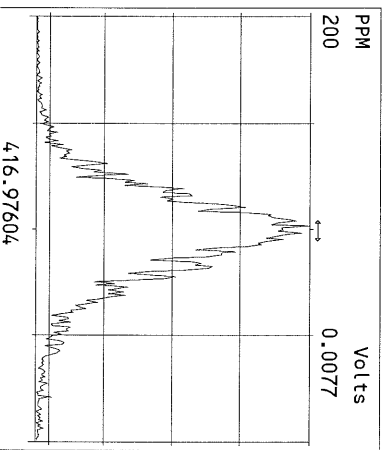
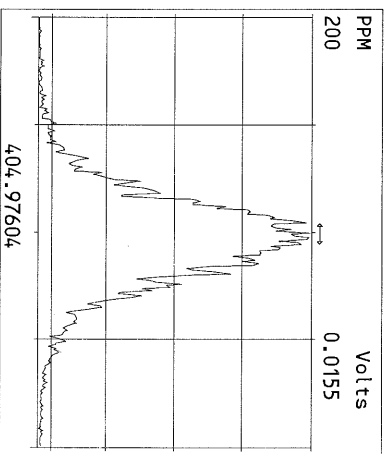
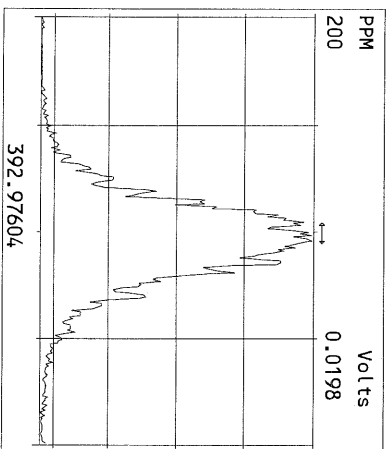
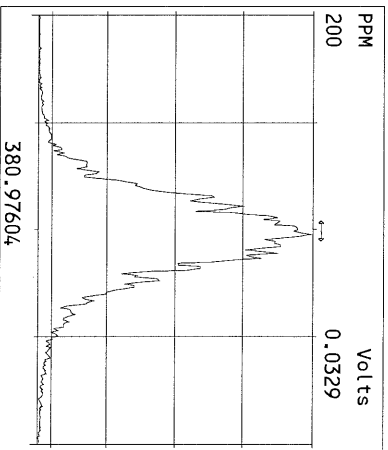
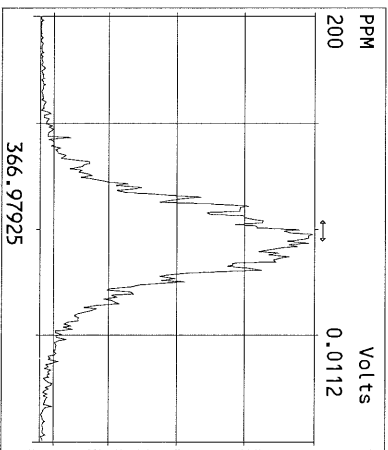
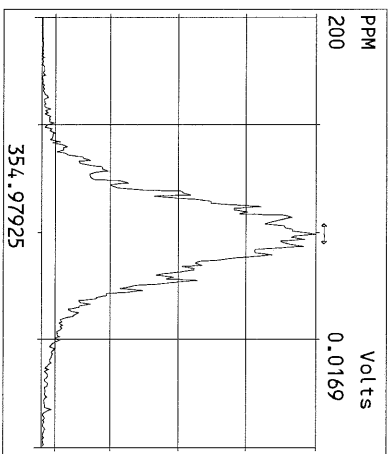
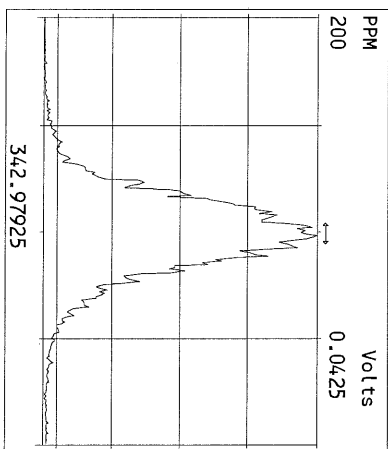
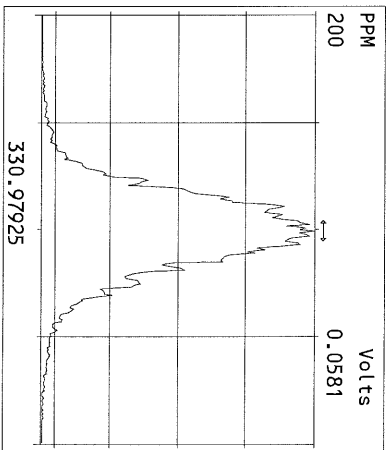
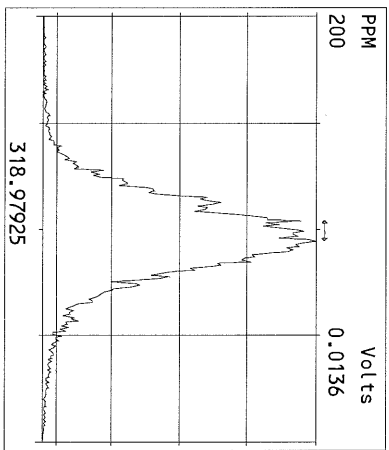
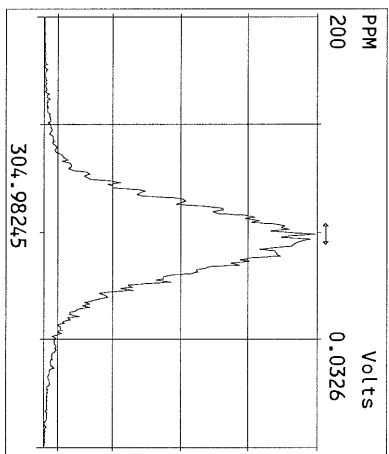
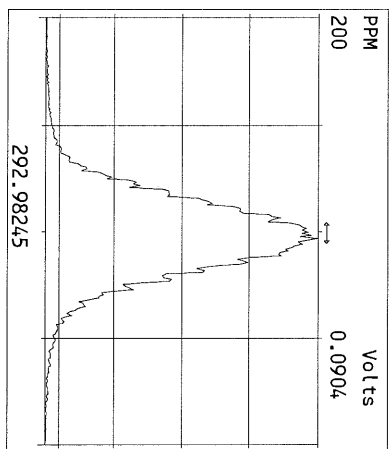


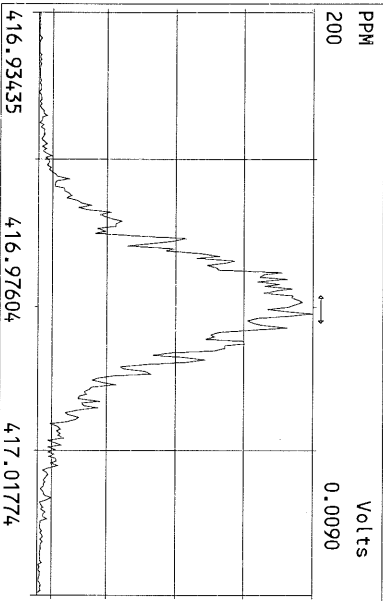
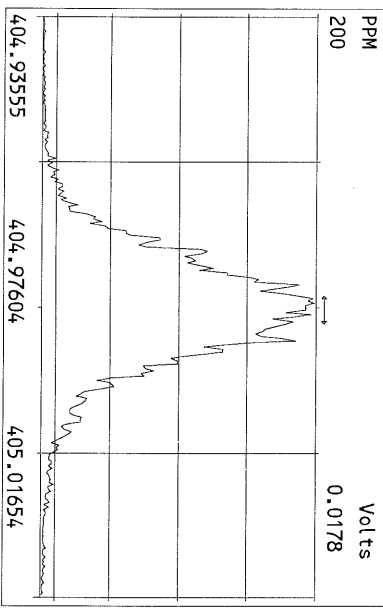
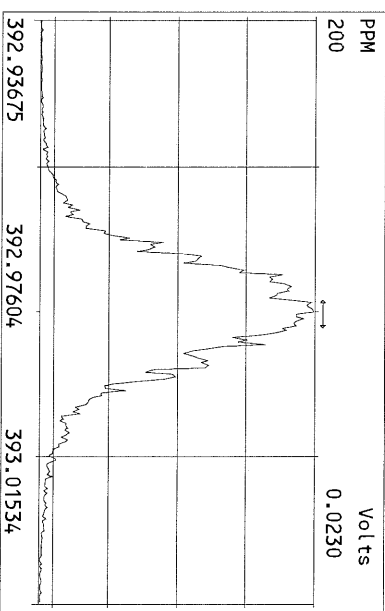
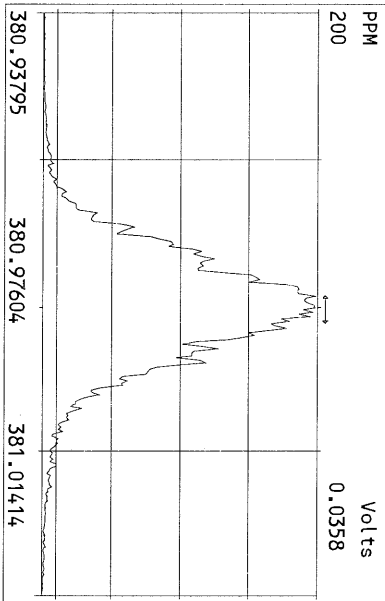
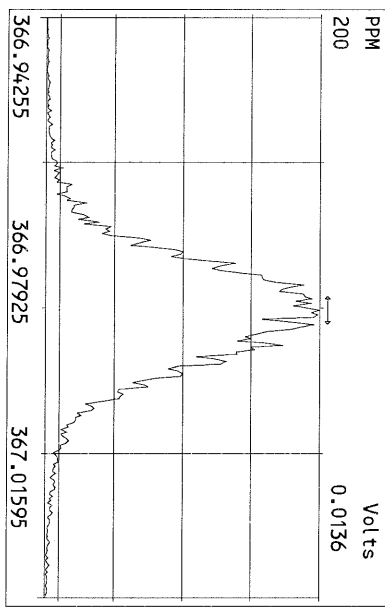
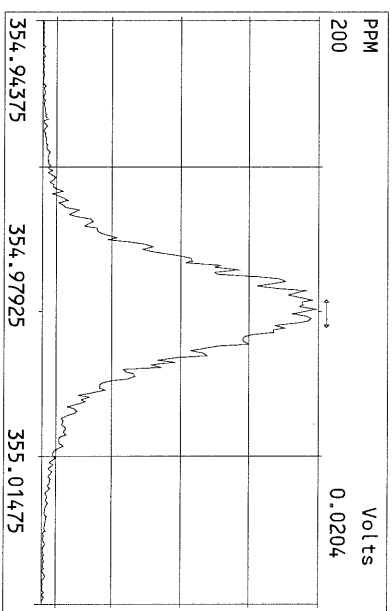
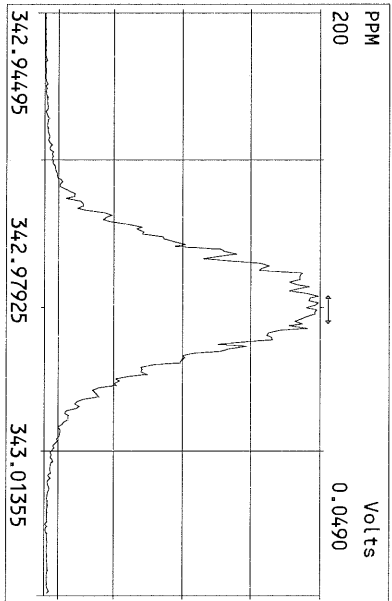
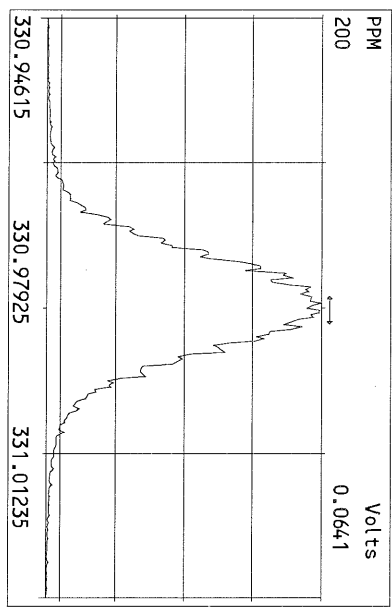
File:01FEB11M #1-347 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
455.7801 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST02011M1 File Text:Fronter Analytical Laboratory

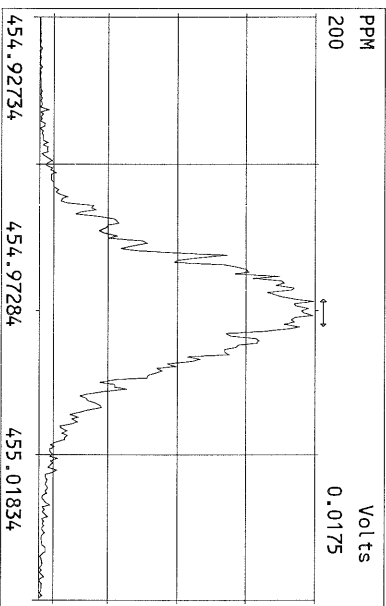
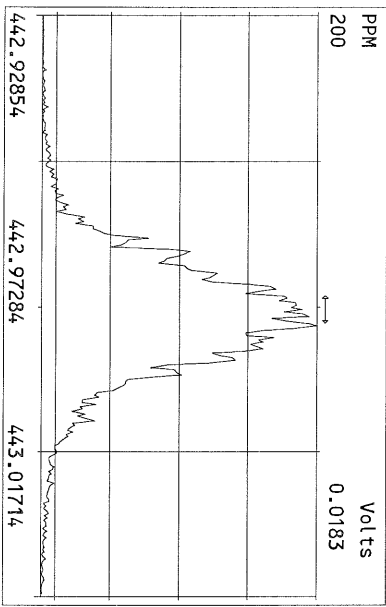
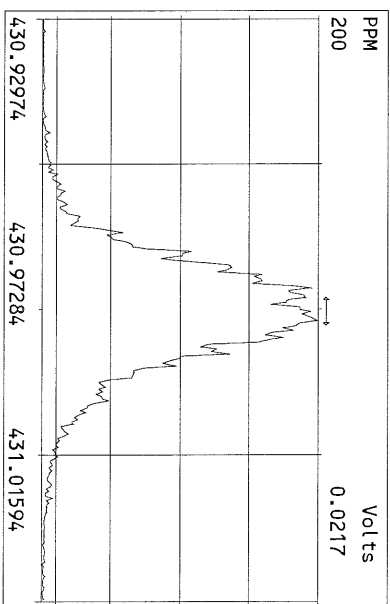
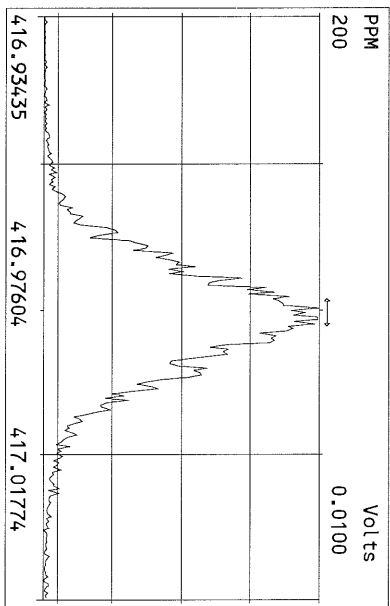
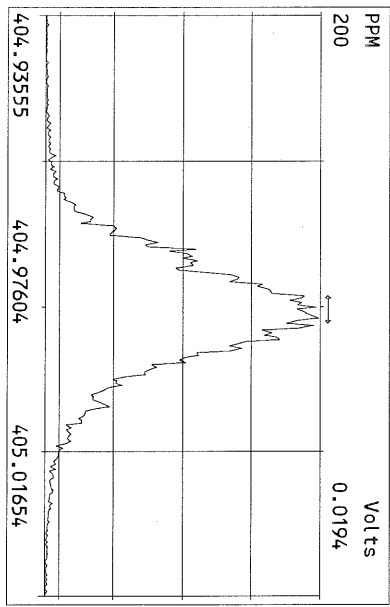
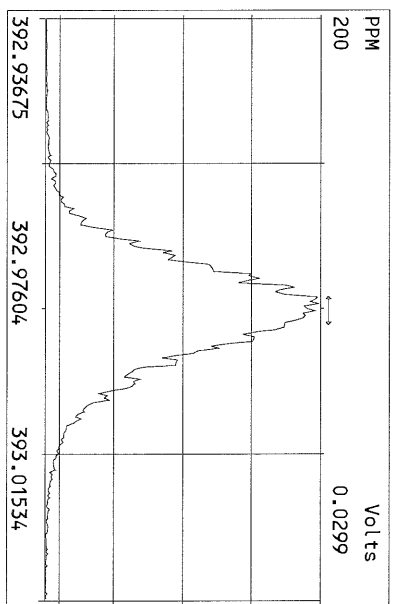
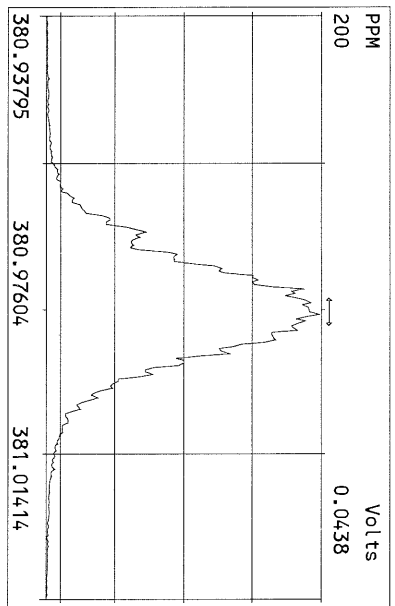
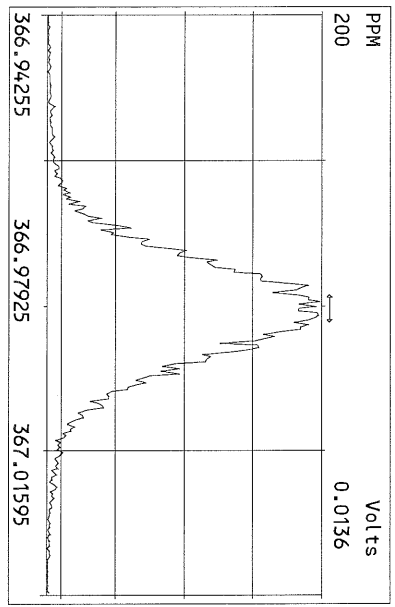


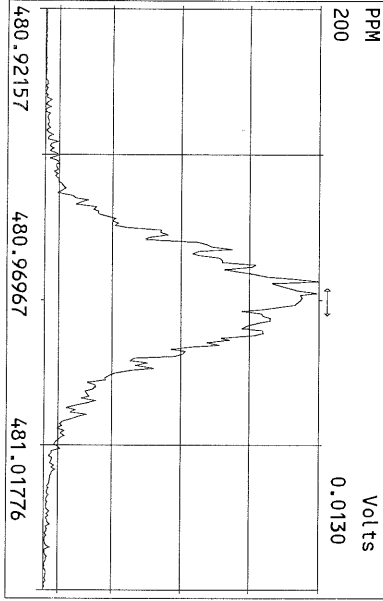
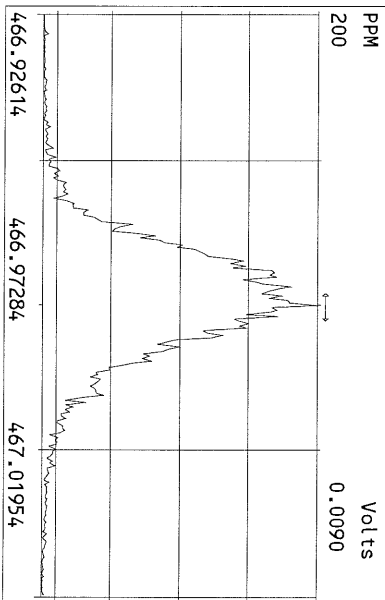
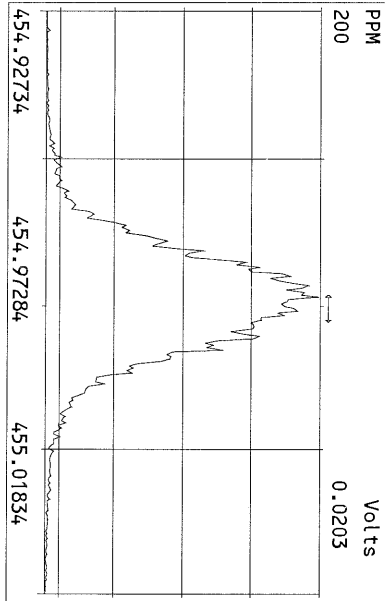
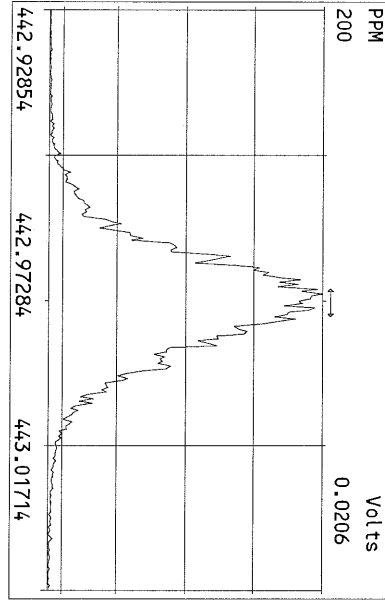
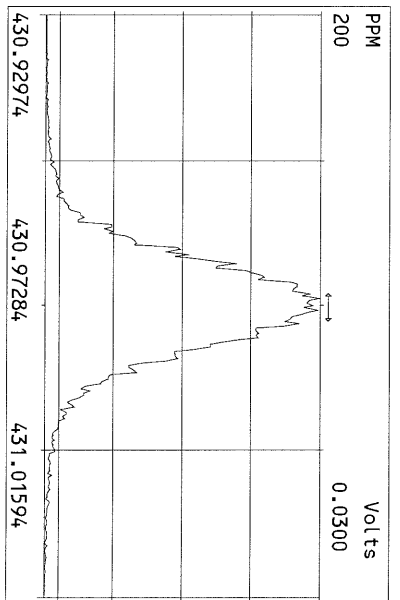
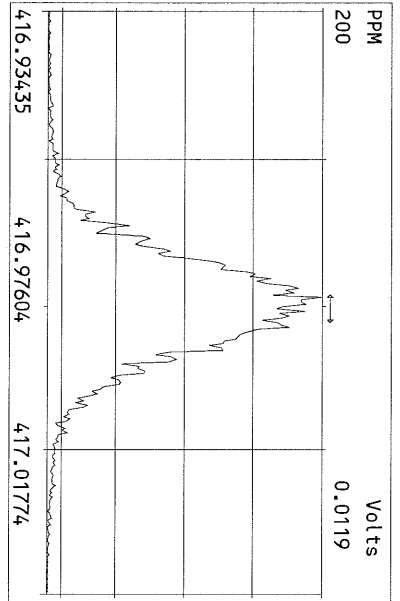
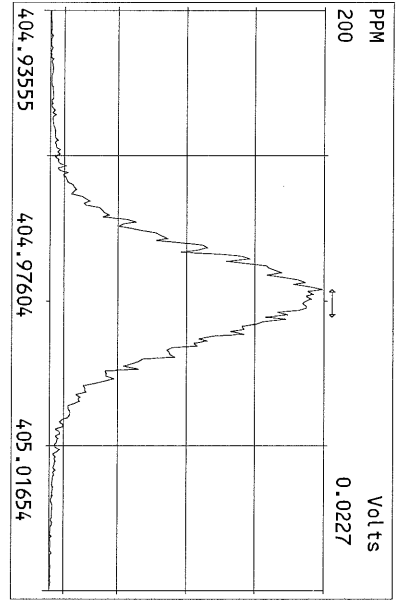
File:01FEB11M #1-347 Acq: 1-FEB-2011 14:58:21 GC EI+ Voltage SIR Autospec-Ultima
513.6775 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST02011M1 File Text:Fronter Analytical Laboratory
100 %

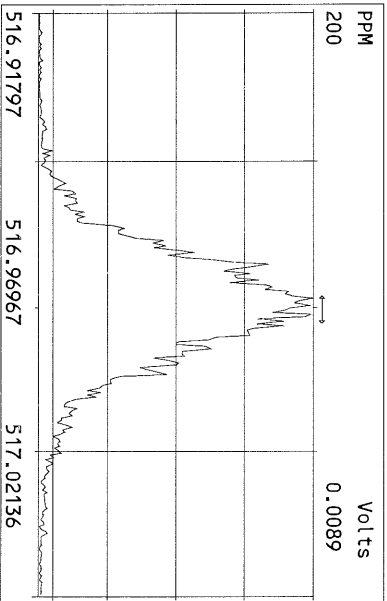
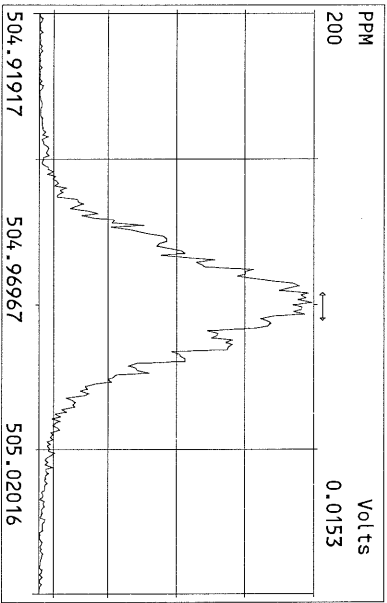
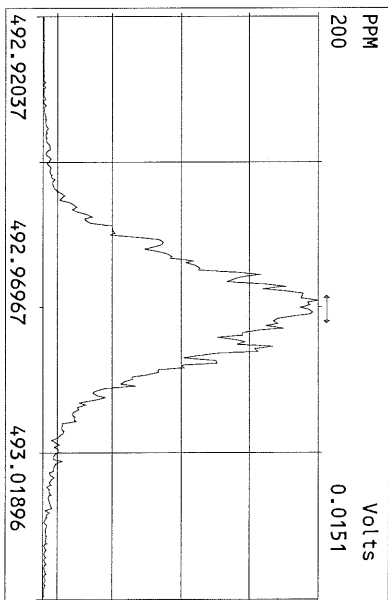
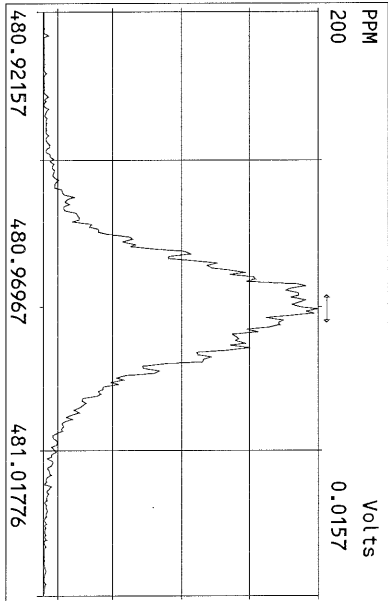
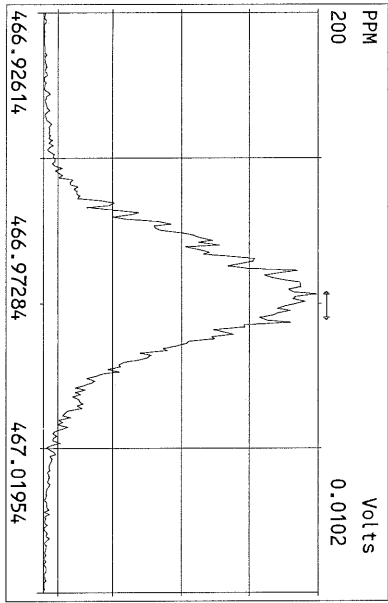
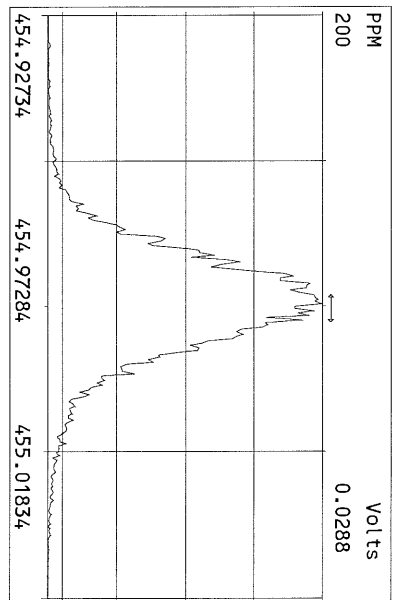
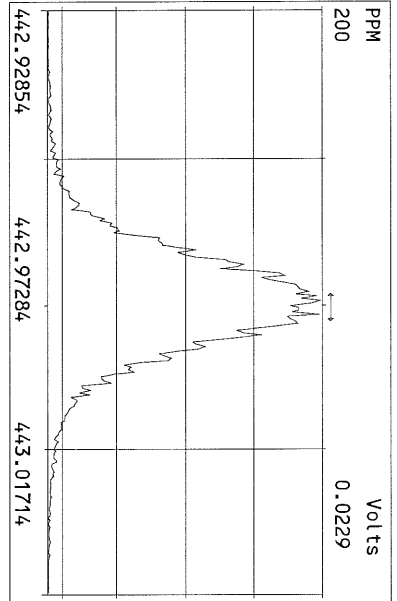
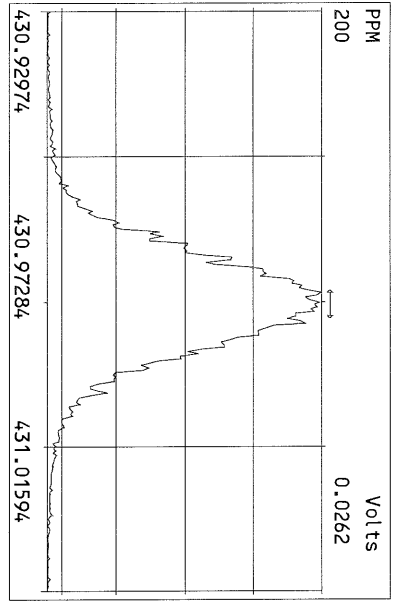












USEPA - ITD

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/23/10

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 01FEB11M Sam:14

Analysis Date: 2-FEB-11 02:57:29

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
2,3,7,8-TCDD	M/M+2	0.84	0.65-0.89	y	11.6	7.80 - 12.9 ✓
1,2,3,7,8-PeCDD	M+2/M+4	1.47	1.32-1.78	y	51.9	39.0 - 65.0 ✓
1,2,3,4,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	50.5	39.0 - 64.0 ✓
1,2,3,6,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	50.6	39.0 - 64.0 ✓
1,2,3,7,8,9-HxCDD	M+2/M+4	1.27	1.05-1.43	y	52.5	41.0 - 61.0 ✓
1,2,3,4,6,7,8-HpCDD	M+2/M+4	0.92	0.88-1.20	y	44.2	43.0 - 58.0 ✓
OCDD	M+2/M+4	0.87	0.76-1.02	y	103	79.0 - 126
2,3,7,8-TCDF	M/M+2	0.77	0.65-0.89	y	8.74	8.40 - 12.0 ✓
1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	47.7	41.0 - 60.0 ✓
2,3,4,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	45.7	41.0 - 60.0 ✓
1,2,3,4,7,8-HxCDF	M+2/M+4	1.27	1.05-1.43	y	53.8	45.0 - 56.0 ✓
1,2,3,6,7,8-HxCDF	M+2/M+4	1.23	1.05-1.43	y	55.7	44.0 - 57.0 ✓
2,3,4,6,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	54.5	44.0 - 57.0 ✓
1,2,3,7,8,9-HxCDF	M+2/M+4	1.26	1.05-1.43	y	55.7	45.0 - 56.0 ✓
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.09	0.88-1.20	y	53.0	45.0 - 55.0 ✓
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.09	0.88-1.20	y	54.5	43.0 - 58.0 ✓
OCDF	M+2/M+4	0.91	0.76-1.02	y	107	63.0 - 159 ✓

(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.

Analyst: 

Date: 2/2/11

USEPA - ITD

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 8/23/10

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 01FEB11M Sam:14

Analysis Date: 2-FEB-11 02:57:29


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	0.78	0.65-0.89	y	95.8	82.0 - 121 ✓
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.71	1.32-1.78	y	117	62.0 - 160 ✓
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	101	85.0 - 117 ✓
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.22	1.05-1.43	y	98.7	85.0 - 118 ✓
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	0.88-1.20	y	110	72.0 - 138 ✓
13C-OCDD	M+2/M+4	0.98	0.76-1.02	y	218	96.0 - 415 ✓
13C-2,3,7,8-TCDF	M/M+2	0.88	0.65-0.89	y	92.5	71.0 - 140 ✓
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.68	1.32-1.78	y	109	76.0 - 130 ✓
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.66	1.32-1.78	y	110	77.0 - 130 ✓
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	96.2	76.0 - 131 ✓
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	89.6	70.0 - 143 ✓
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.49	0.43-0.59	y	92.5	73.0 - 137 ✓
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.51	0.43-0.59	y	91.4	74.0 - 135 ✓
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.49	0.37-0.51	y	91.9	78.0 - 129 ✓
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.50	0.37-0.51	y	96.5	77.0 - 129 ✓
13C-OCDF	M+2/M+4	0.94	0.76-1.02	y	194	96.0 - 415 ✓
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					10.7	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: Date: 2/2/11

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 8/23/10

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 2-FEB-11 02:57:29

CS3 or VER Data Filename: 01FEB11M

Sam:14

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	1.022	0.989-1.052 ✓
13C-2,3,7,8-TCDD		1.022	0.976-1.043 ✓
13C-2,3,7,8-TCDF		0.993	0.923-1.103 ✓
13C-1,2,3,7,8-PeCDD		1.240	1.000-1.567 ✓
13C-1,2,3,7,8-PeCDF		1.175	0.923-1.203 ✓
13C-2,3,4,7,8-PeCDF		1.225	0.923-1.303 ✓

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Analyst: _____



Date: _____



FORM 6B

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 8/23/10

Instrument ID: FAL3

GC Column ID: DB5


Analysis Date: 2-FEB-11 02:57:29

CS3 or VER Data Filename: 01FEB11M


Sam:14

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT 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	1.000	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	1.001	0.997-1.005 ✓
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.001	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	1.001	0.999-1.001 ✓
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.001	0.999-1.001 ✓
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001 ✓
OCDD	13C-OCDD	1.001	0.999-1.001 ✓
OCDF	13C-OCDF	1.001	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		0.989	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		1.015	0.977-1.047 ✓
13C-1,2,3,4,6,7,8-HpCDD		1.128	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		1.152	1.057-1.154 ✓
13C-OCDD		1.270	1.032-1.311 ✓
13C-OCDF		1.280	1.000-1.311 ✓

(1) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

Analyst: Date: 

Results:		GC Column: DB5	Amount: 1.000	NATO 1989 Tox: 103		WHO 1998 Tox: 129		WHO 2005 Tox: 119	
Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL
2,3,7,8-TCDD	3.08e+06	0.84 y	27:18	1.11	11.6		2.50	-	*
1,2,3,7,8-PeCDD	1.37e+07	1.47 y	33:09	1.10	51.9		2.50	-	*
1,2,3,4,7,8-HxCDD	1.29e+07	1.24 y	38:31	1.37	50.5		2.50	-	*
1,2,3,6,7,8-HxCDD	1.19e+07	1.24 y	38:41	1.37	50.6		2.50	-	*
1,2,3,7,8,9-HxCDD	1.28e+07	1.27 y	39:08	1.36	52.5		2.50	-	*
1,2,3,4,6,7,8-HpCDD	1.04e+07	0.92 y	44:09	1.45	44.2		2.50	-	*
OCDD	1.50e+07	0.87 y	49:43	1.43	103		2.50	-	*
2,3,7,8-TCDF	4.84e+06	0.77 y	26:34	1.50	8.74		2.50	-	*
1,2,3,7,8-PeCDF	1.64e+07	1.55 y	31:24	0.94	47.7		2.50	-	*
2,3,4,7,8-PeCDF	1.53e+07	1.55 y	32:44	0.94	45.7		2.50	-	*
1,2,3,4,7,8-HxCDF	1.52e+07	1.27 y	37:07	0.93	53.8		2.50	-	*
1,2,3,6,7,8-HxCDF	1.78e+07	1.23 y	37:20	0.82	55.7		2.50	-	*
2,3,4,6,7,8-HxCDF	1.60e+07	1.25 y	38:16	0.92	54.5		2.50	-	*
1,2,3,7,8,9-HxCDF	1.76e+07	1.26 y	39:43	1.00	55.7		2.50	-	*
1,2,3,4,6,7,8-HpCDF	1.29e+07	1.09 y	42:14	1.39	53.0		2.50	-	*
1,2,3,4,7,8,9-HpCDF	9.82e+06	1.09 y	45:04	1.36	54.5		2.50	-	*
OCDF	1.52e+07	0.91 y	50:05	0.79	107		2.50	-	*
									Rec
13C-2,3,7,8-TCDD	2.38e+07	0.78 y	27:17	1.02	95.8				95.8
13C-1,2,3,7,8-PeCDD	2.39e+07	1.71 y	33:07	0.84	117				117
13C-1,2,3,4,7,8-HxCDD	1.86e+07	1.23 y	38:29	1.07	101				101
13C-1,2,3,6,7,8-HxCDD	1.71e+07	1.22 y	38:40	1.01	98.7				98.7
13C-1,2,3,4,6,7,8-HpCDD	1.62e+07	1.03 y	44:07	0.86	110				110
13C-OCDD	2.04e+07	0.98 y	49:41	0.55	218				109
13C-2,3,7,8-TCDF	3.69e+07	0.88 y	26:32	0.99	92.5				92.5
13C-1,2,3,7,8-PeCDF	3.64e+07	1.68 y	31:23	0.84	109				109
13C-2,3,4,7,8-PeCDF	3.59e+07	1.66 y	32:42	0.81	110				110
13C-1,2,3,4,7,8-HxCDF	3.05e+07	0.50 y	37:07	1.85	96.2				96.2
13C-1,2,3,6,7,8-HxCDF	3.89e+07	0.50 y	37:18	2.54	89.6				89.6
13C-2,3,4,6,7,8-HxCDF	3.19e+07	0.49 y	38:15	2.01	92.5				92.5
13C-1,2,3,7,8,9-HxCDF	3.18e+07	0.51 y	39:41	2.03	91.4				91.4
13C-1,2,3,4,6,7,8-HpCDF	1.75e+07	0.49 y	42:13	1.11	91.9				91.9
13C-1,2,3,4,7,8,9-HpCDF	1.33e+07	0.50 y	45:03	0.80	96.5				96.5
13C-OCDF	3.60e+07	0.94 y	50:04	1.08	194				97.2
37Cl-2,3,7,8-TCDD	1.79e+06		27:18	0.69	10.7				107
13C-1,2,3,4-TCDD	2.43e+07	0.77 y	26:42	-	54.0				
13C-1,2,3,4-TCDF	4.01e+07	0.88 y	25:27	-	55.4				
13C-1,2,3,7,8,9-HxCDD	1.71e+07	1.21 y	39:07	-	62.1				
									DL
Total Tetra-Dioxins	1.59e+07		23:22	1.11	60.3		2.50	-	*
Total Penta-Dioxins	2.99e+07		30:09	1.10	113		2.50	-	*
Total Hexa-Dioxins	4.33e+07		36:03	1.37	177		2.50	-	*
Total Hepta-Dioxins	2.30e+07		42:45	1.45	97.9		2.50	-	*
Total Tetra-Furans	2.39e+07		22:57	1.50	43.2		2.50	-	*
1st Fn. Tot Penta-Furans	1.89e+07		28:19	0.94	55.8		2.50	-	*
Total Penta-Furans	4.73e+07		30:05	0.94	139		2.50	-	*
Total Hexa-Furans	7.82e+07		35:10	0.91	258		2.50	-	*
Total Hepta-Furans	2.34e+07		41:53	1.38	111		2.50	-	*
									#Hom
									30
									11
									21
									39
									22
									1
									195
									22
									24
									22

Analyst: 

Date: 2/2/11

Frontier Analytical Laboratory - Acquisition Log

Run Name:01FEB11M

Instrument: FAL3

GC: DB5

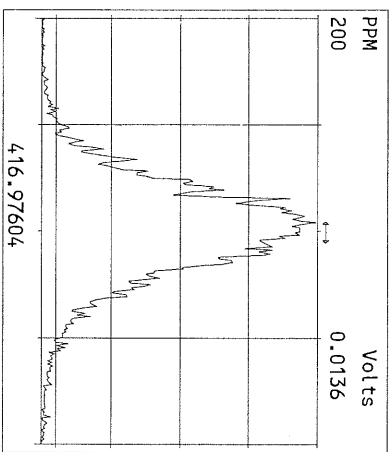
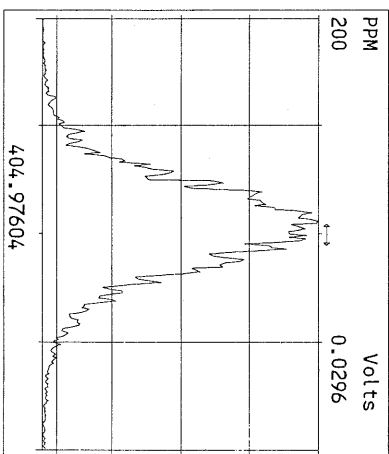
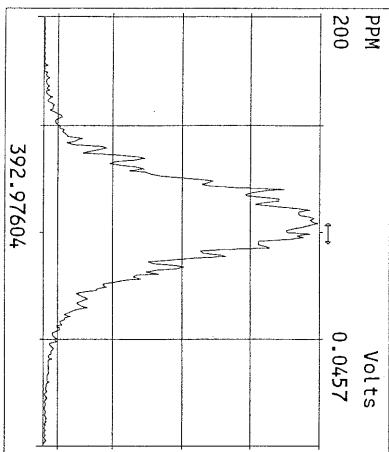
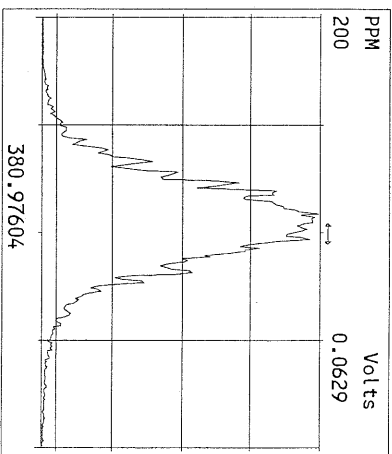
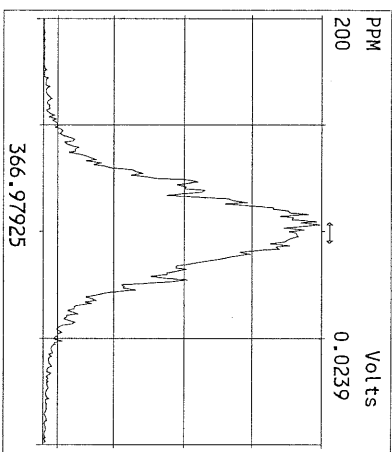
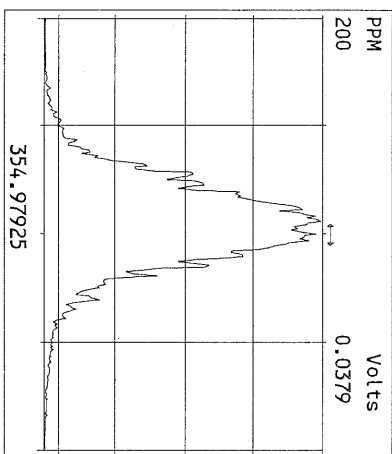
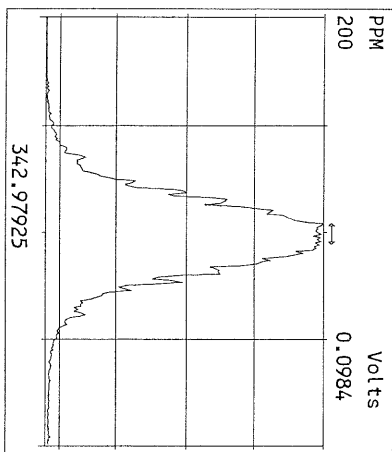
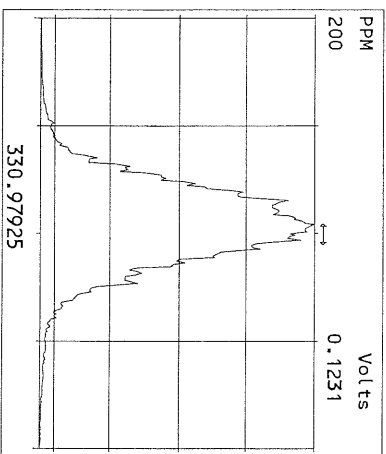
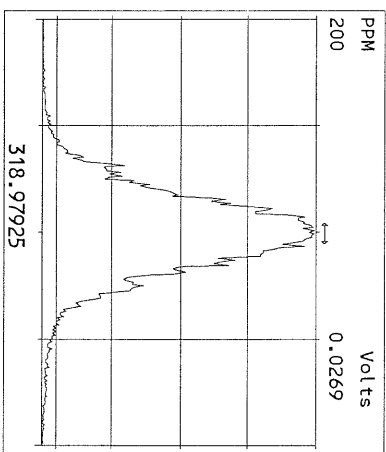
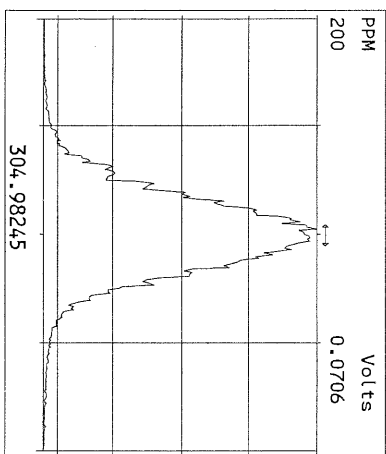
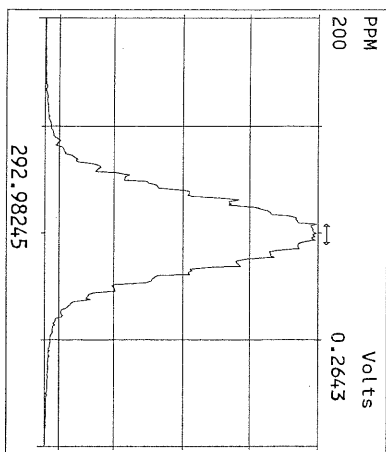
Experiment:OCDD

Data File S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
01FEB11M 1	ST020111M1	1613 CS3 100511J	1-FEB-11 14:58:21	ST020111M1	ST020111M2	TC
01FEB11M 2	2207-001-0001-OPR	OPR	1-FEB-11 15:53:43	ST020111M1	ST020111M2	TC
01FEB11M 3	2207-001-0001-MB	Method Blank	1-FEB-11 16:49:06	ST020111M1	ST020111M2	TC
01FEB11M 4	6546-001-0001-SA	MW-05-012111	1-FEB-11 17:44:25	ST020111M1	ST020111M2	TC
01FEB11M 5	6546-002-0001-SA	MW-02-012111	1-FEB-11 18:39:44	ST020111M1	ST020111M2	TC
01FEB11M 6	6546-003-0001-SA	MW-09-012111	1-FEB-11 19:35:02	ST020111M1	ST020111M2	TC
01FEB11M 7	6546-004-0001-SA	MW-08-012111	1-FEB-11 20:30:17	ST020111M1	ST020111M2	TC
01FEB11M 8	6546-005-0001-SA	MW-01-012111	1-FEB-11 21:25:37	ST020111M1	ST020111M2	TC
01FEB11M 9	6546-006-0001-SA	MW-01-012111-D	1-FEB-11 22:20:56	ST020111M1	ST020111M2	TC
01FEB11M 10	6547-001-0001-SA	MW11-011911	1-FEB-11 23:16:15	ST020111M1	ST020111M2	TC
01FEB11M 11	6547-002-0001-SA	MW10-011911	2-FEB-11 00:11:34	ST020111M1	ST020111M2	TC
01FEB11M 12	6547-003-0001-SA	MW07-011911	2-FEB-11 01:06:52	ST020111M1	ST020111M2	TC
01FEB11M 13	6547-004-0001-SA	MW14-011911	2-FEB-11 02:02:10	ST020111M1	ST020111M2	TC
01FEB11M 14	ST020111M2	1613 CS3 100511J	2-FEB-11 02:57:29	ST020111M1	ST020111M2	TC
01FEB11M 15	SB020111M1	Solvent Blank	2-FEB-11 03:52:48	ST020111M1	ST020111M2	TC

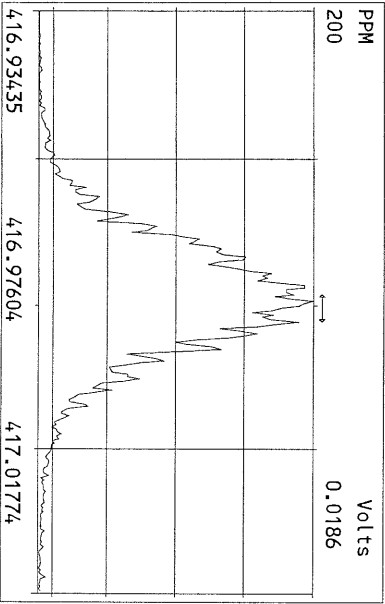
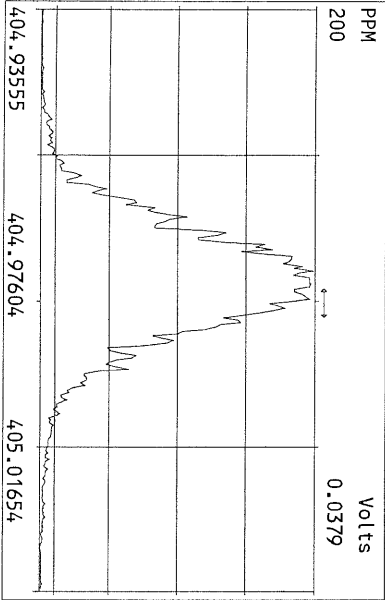
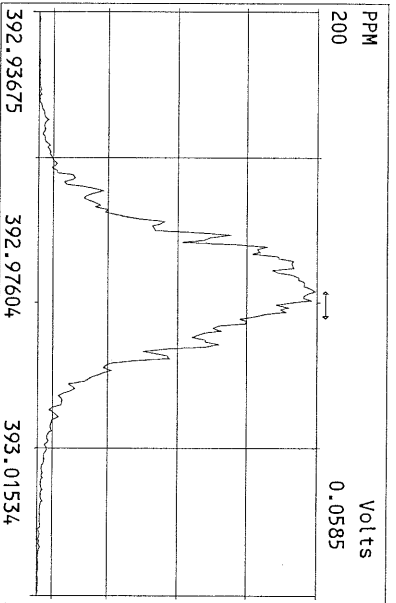
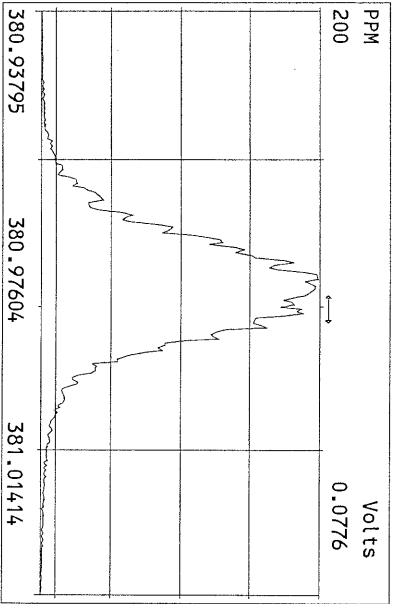
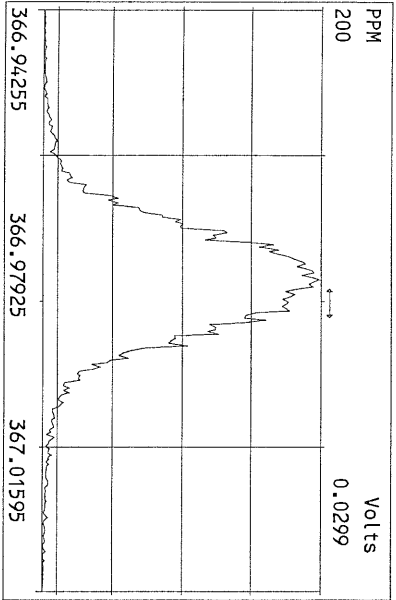
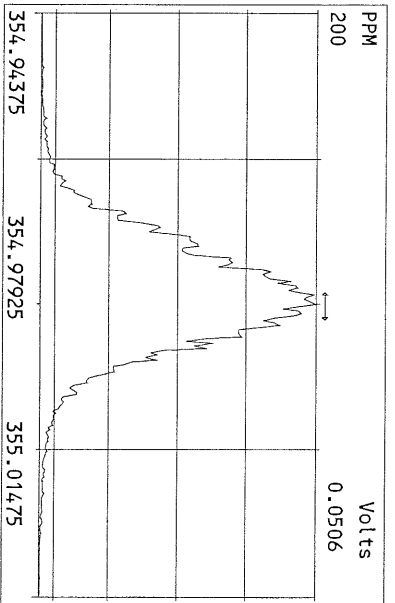
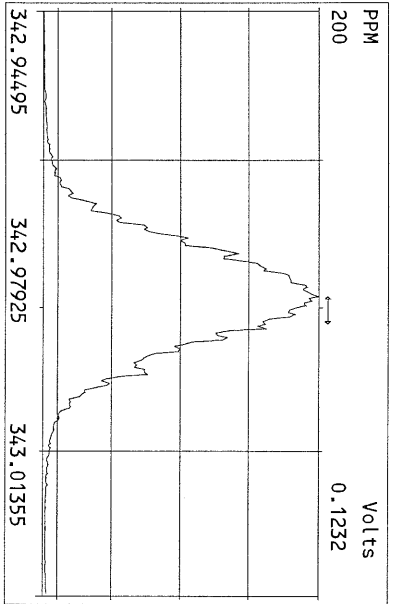
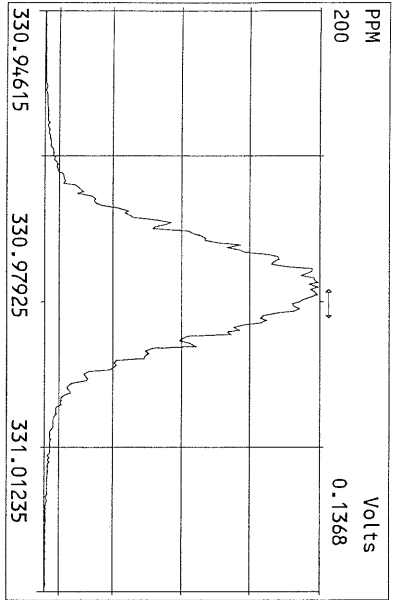
Handwritten signature and initials in black ink, appearing to be 'TC' and 'rj/n'.

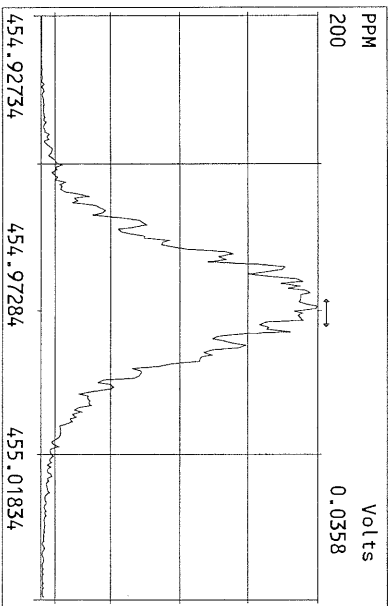
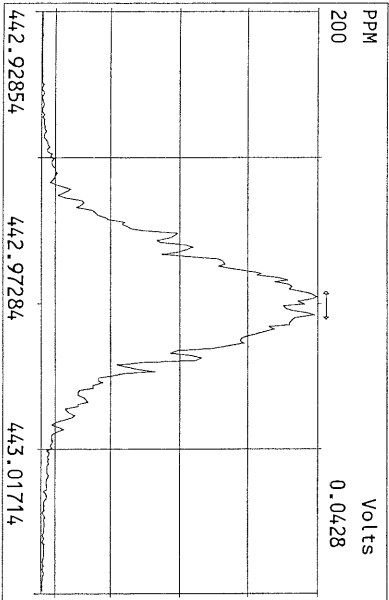
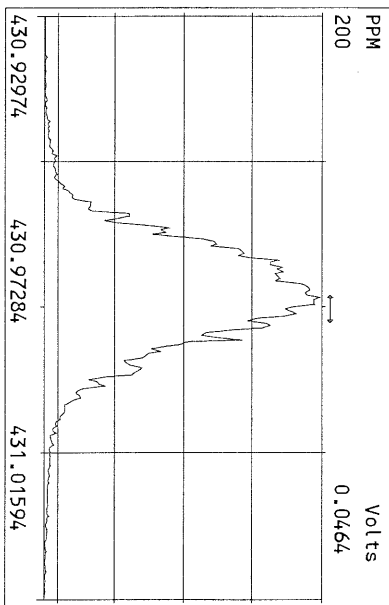
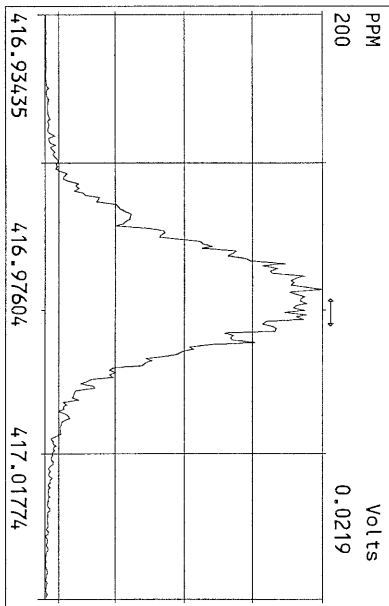
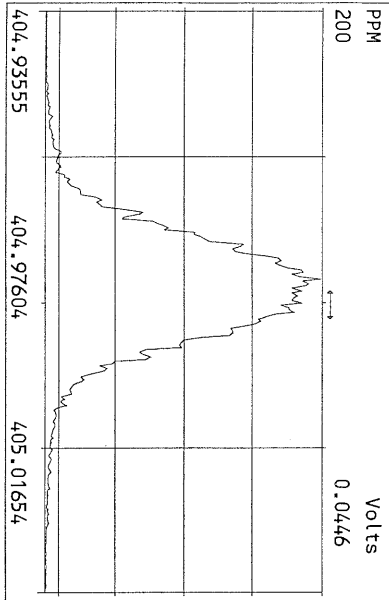
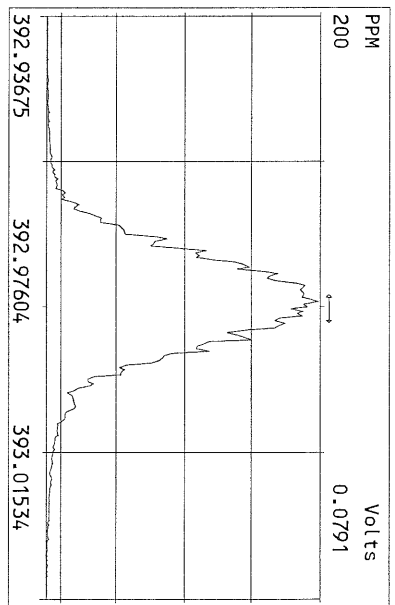
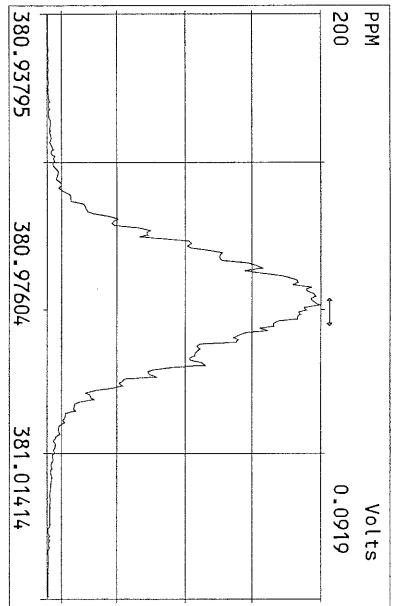
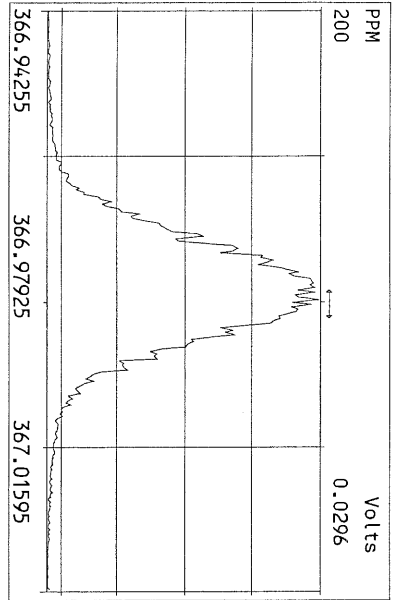
Data Backed Up: _____

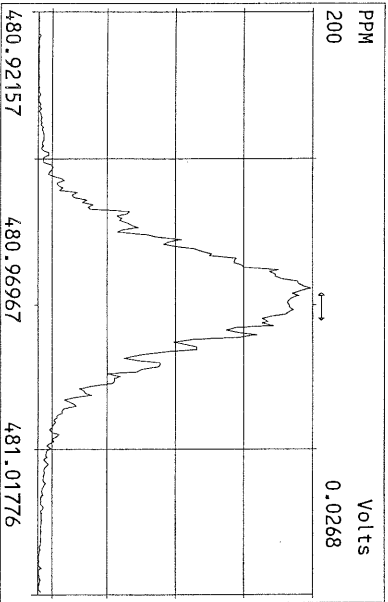
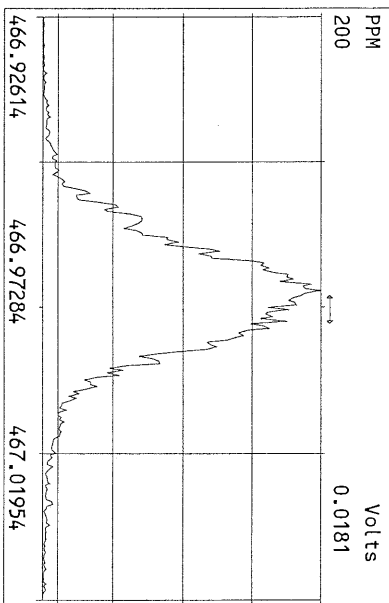
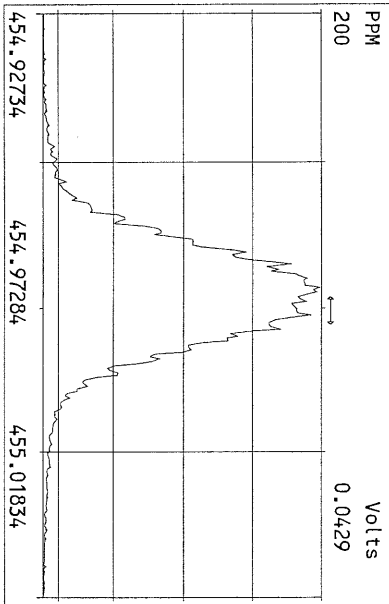
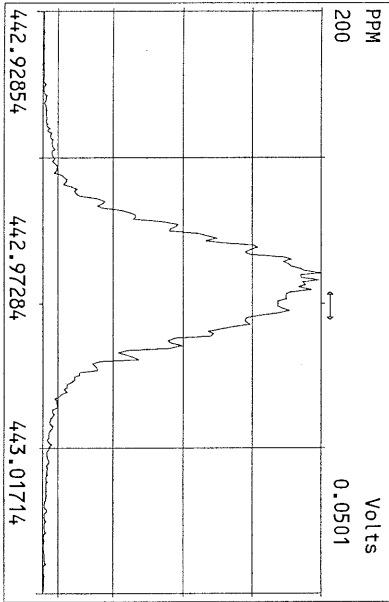
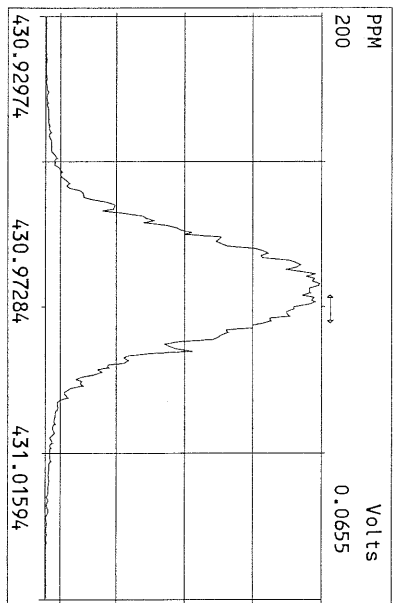
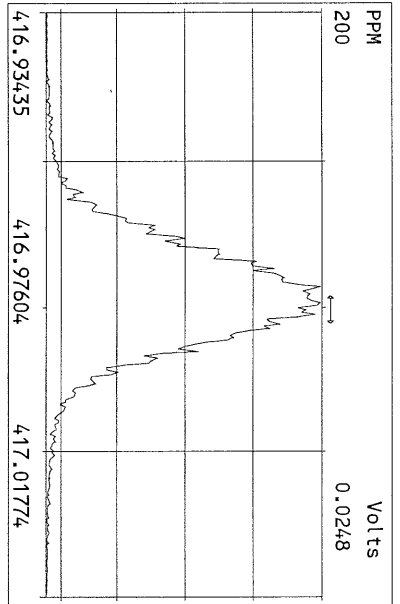
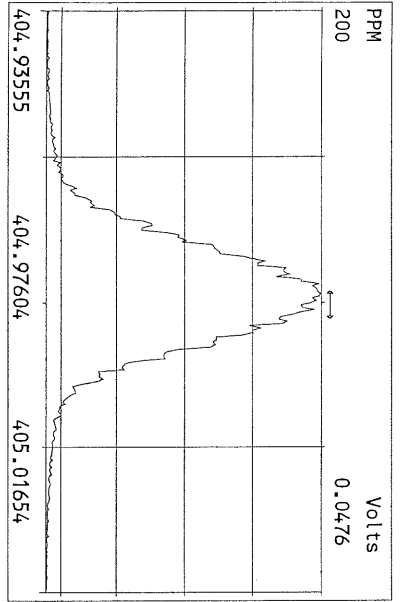
Date: _____



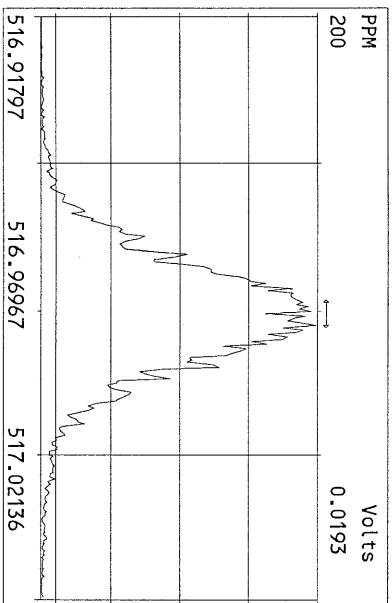
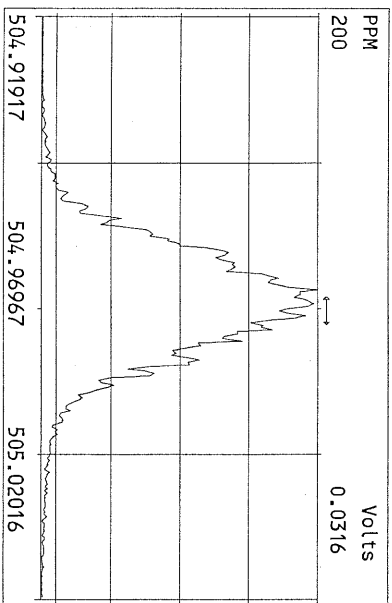
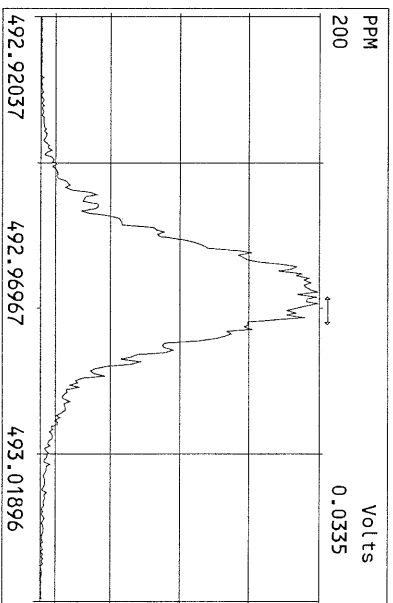
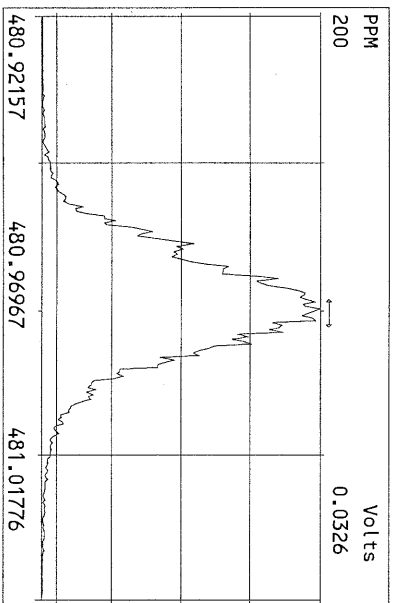
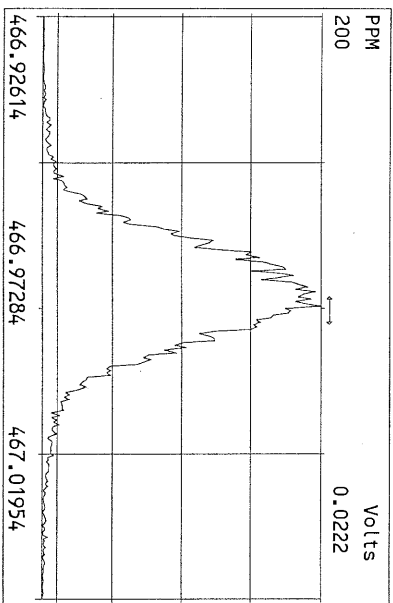
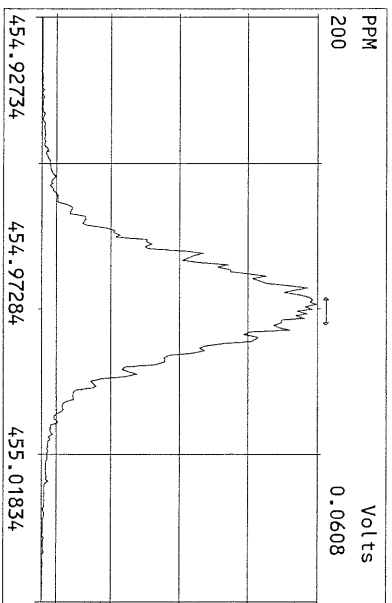
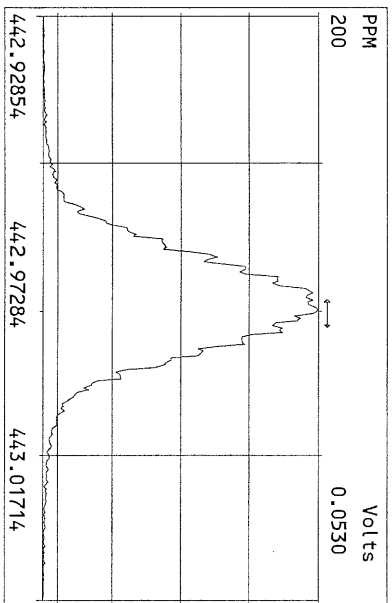
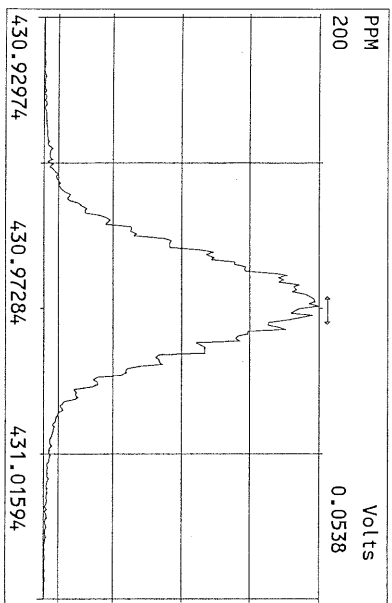
Peak Locate Examination: 1-FEB-2011:14:56 File:01FEB11M
Experiment:OCDD Function:2 Reference:PFK



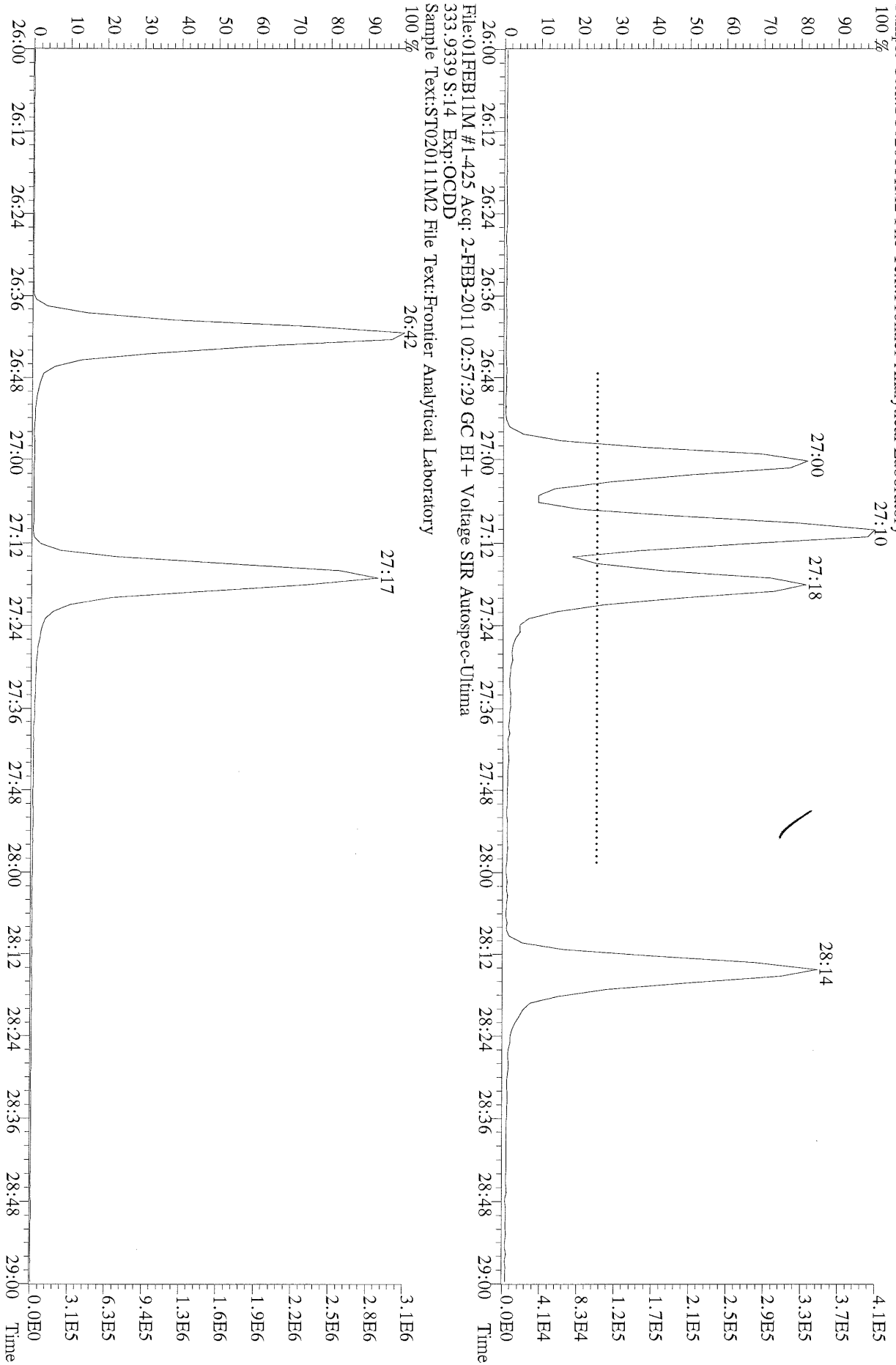




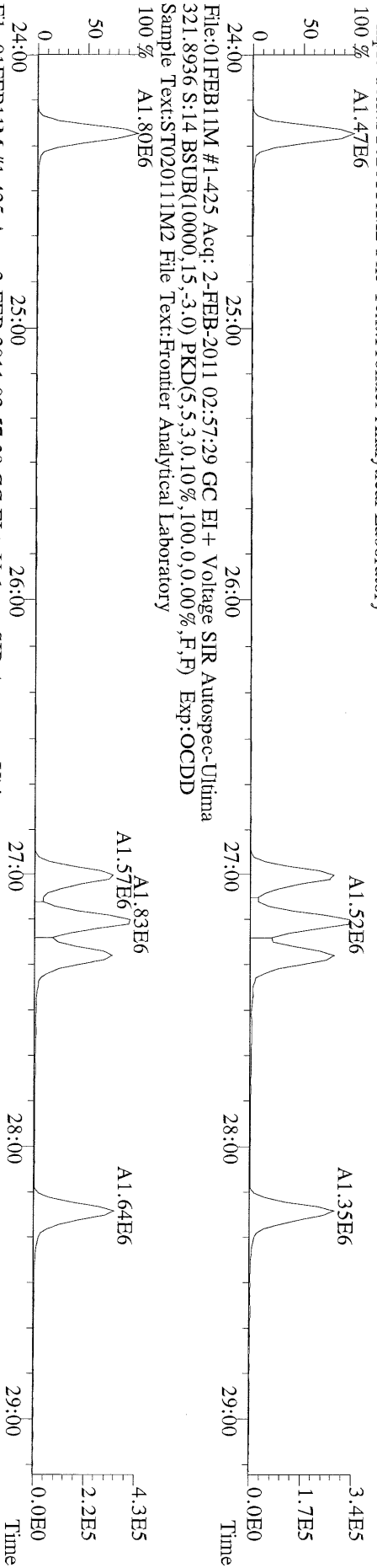
Peak Locate Examination: 1-FEB-2011:14:57 File:01FEB11M
Experiment:OCCD Function:5 Reference:PFK



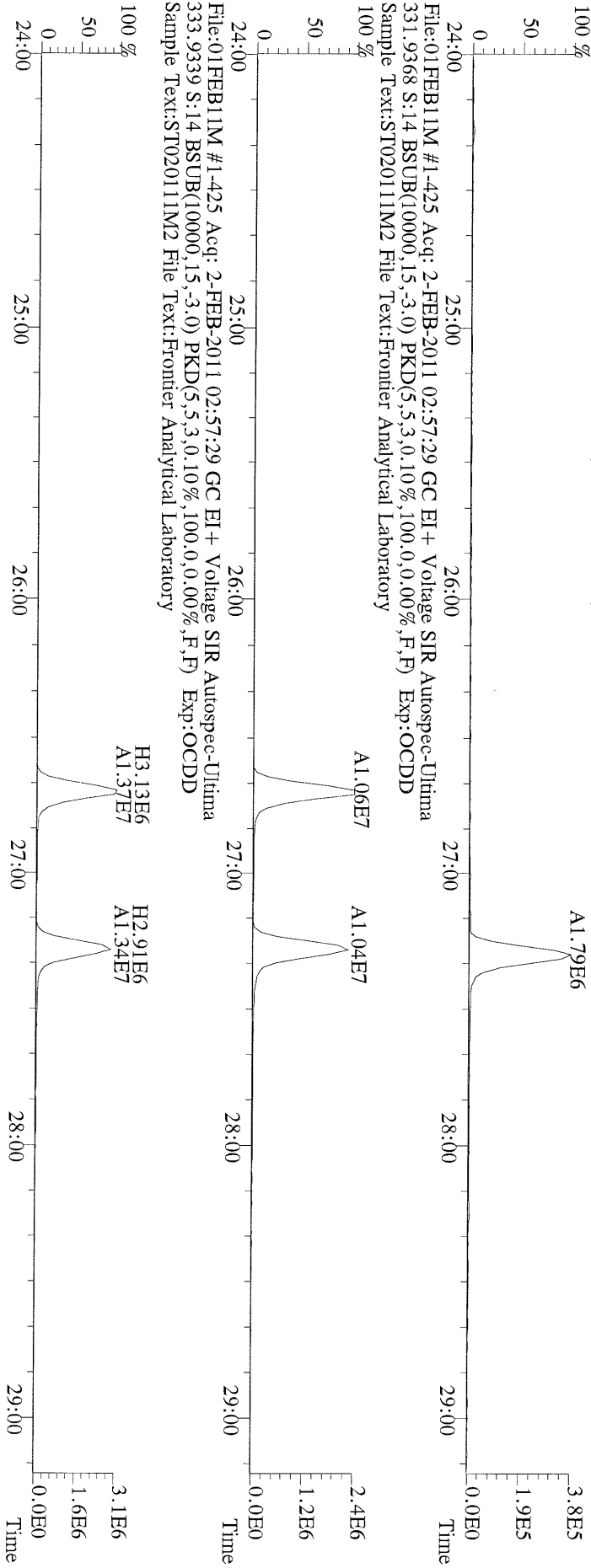
File:01FEB11M #1-425 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S.14 Exp:OCDD
Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory
100%



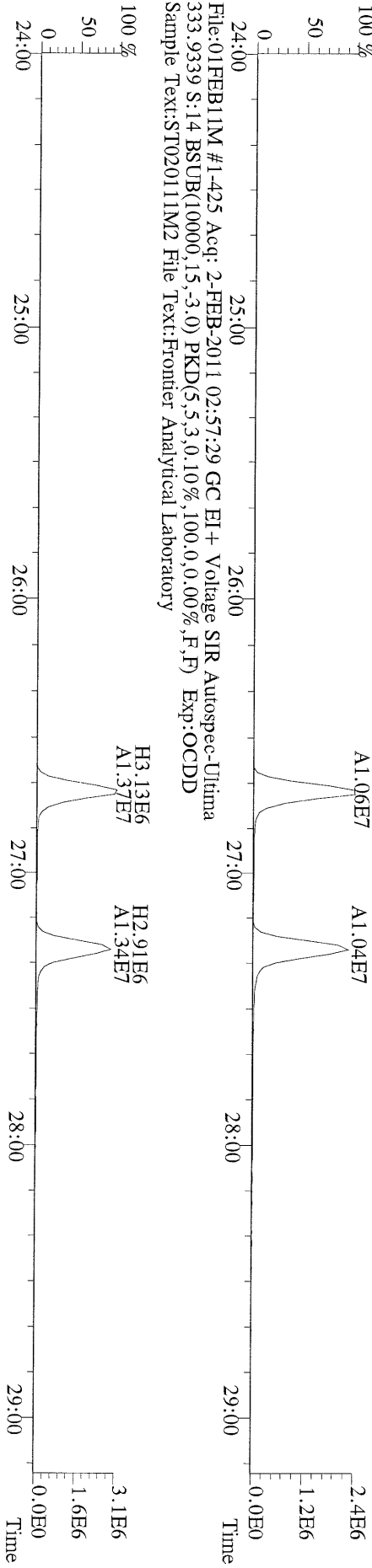
File:01FEB11M #1-425 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Utima
319.8965 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST02011IM2 File Text:Frontier Analytical Laboratory
100% A1.47E6



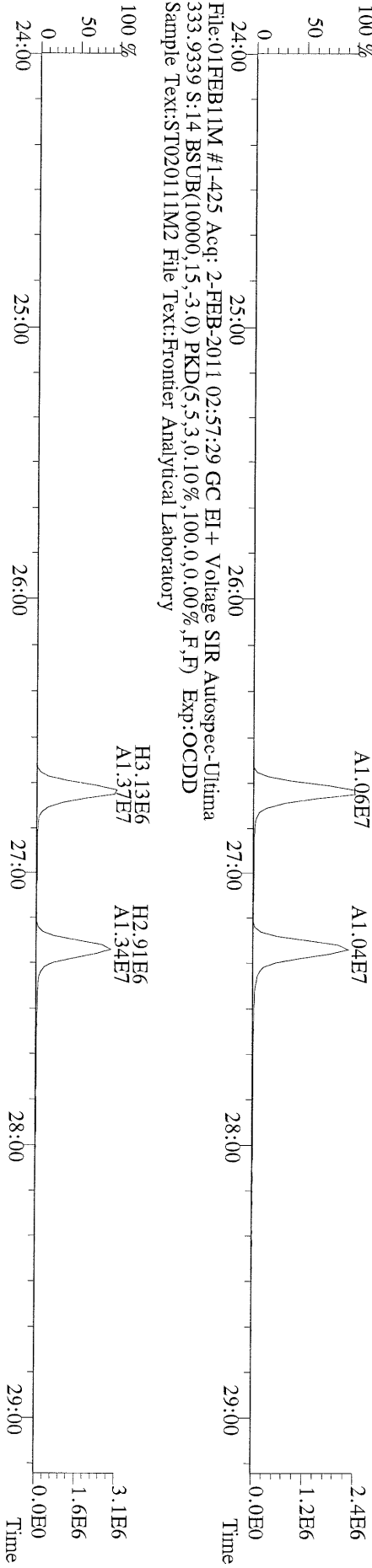
File:01FEB11M #1-425 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Utima
327.8847 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST02011IM2 File Text:Frontier Analytical Laboratory
100% A1.80E6



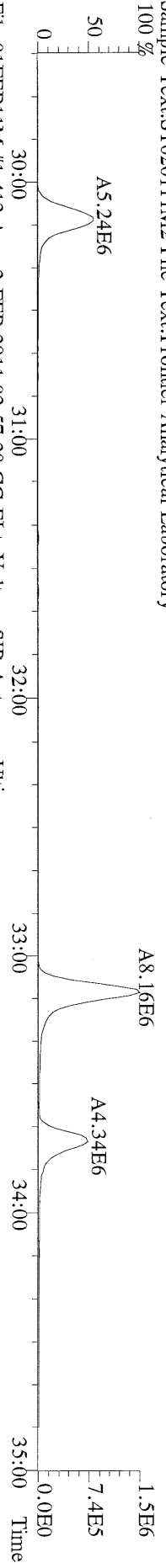
File:01FEB11M #1-425 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Utima
331.9368 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST02011IM2 File Text:Frontier Analytical Laboratory
100% A1.06E7



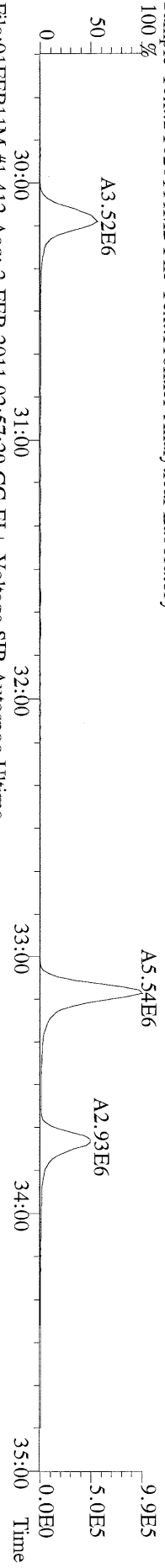
File:01FEB11M #1-425 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Utima
333.9339 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST02011IM2 File Text:Frontier Analytical Laboratory
100% A1.37E7



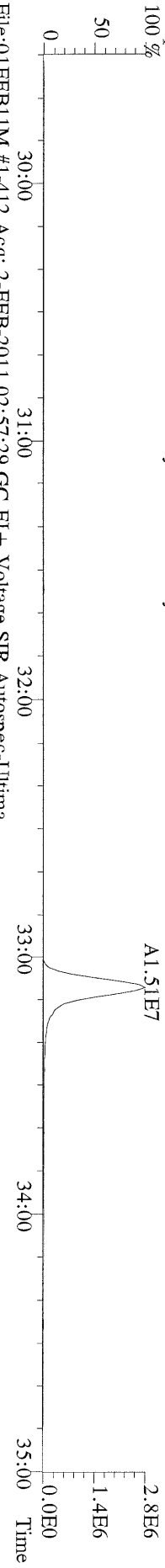
File:01FEB11M #1-412 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Utima
 355.8546 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



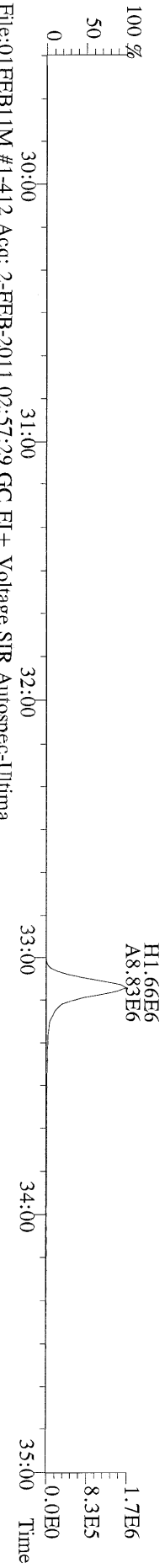
File:01FEB11M #1-412 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Utima
 357.8517 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



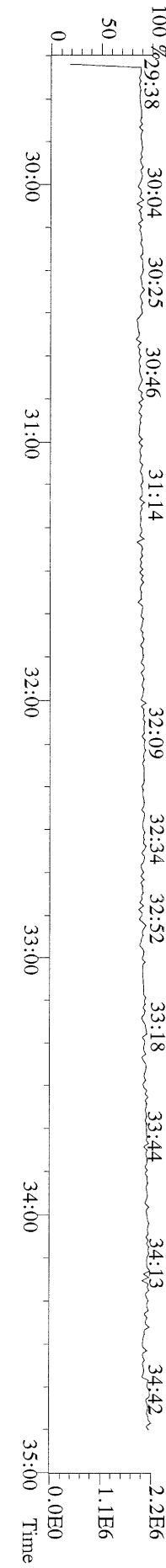
File:01FEB11M #1-412 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Utima
 367.8949 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



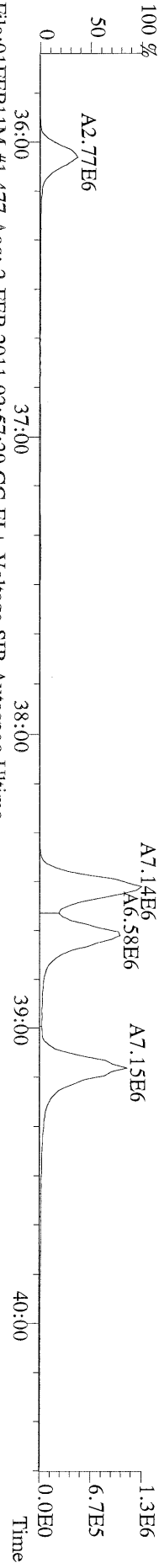
File:01FEB11M #1-412 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Utima
 369.8919 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



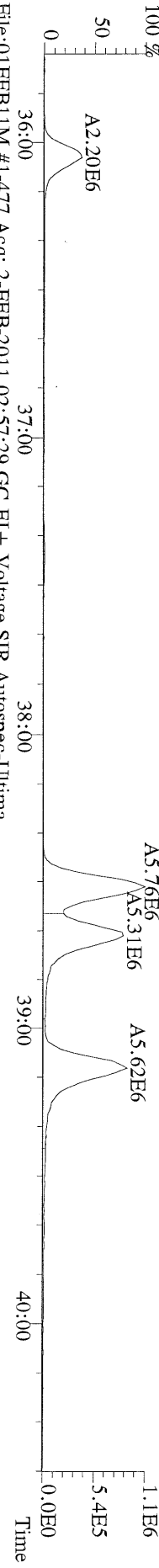
File:01FEB11M #1-412 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Utima
 366.9792 S:14 F:2 Exp:OCDD
 Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



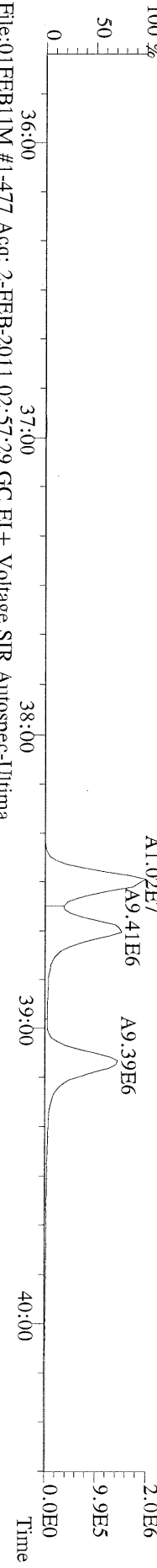
File:01FEB11M #1-477 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:14 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



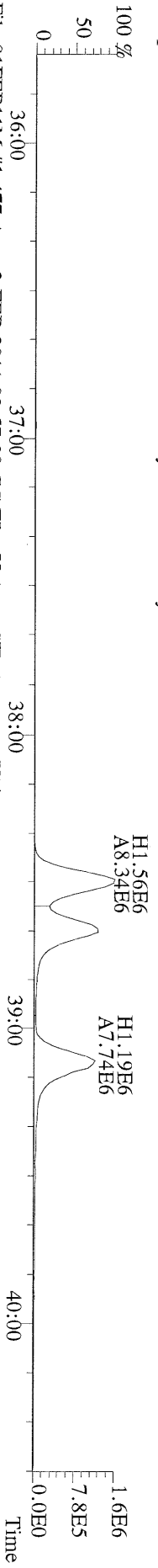
File:01FEB11M #1-477 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:14 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



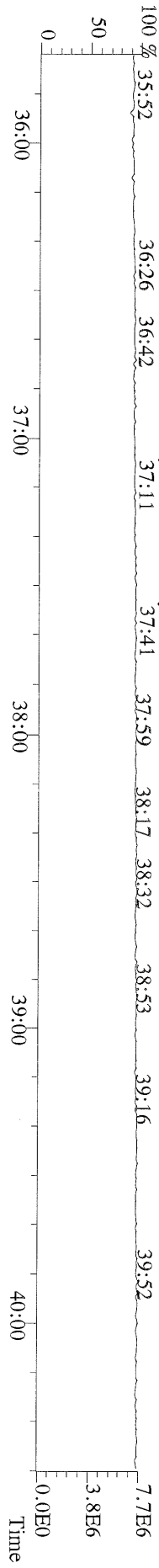
File:01FEB11M #1-477 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:14 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



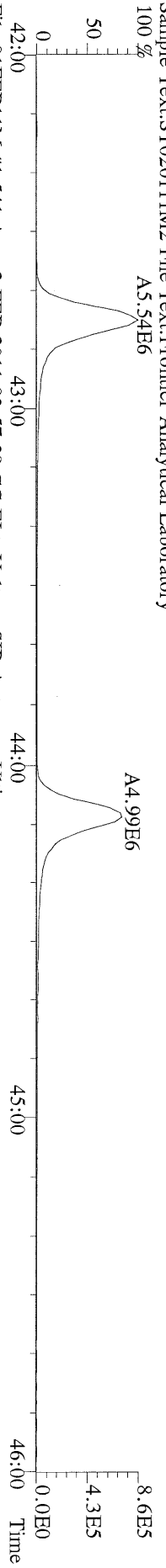
File:01FEB11M #1-477 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:14 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



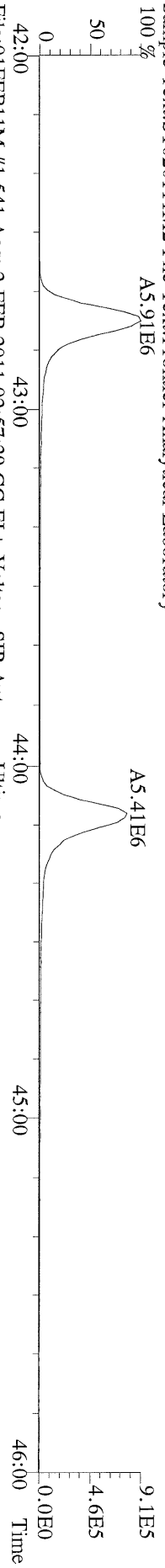
File:01FEB11M #1-477 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:14 F:3 Exp:OCDD
Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



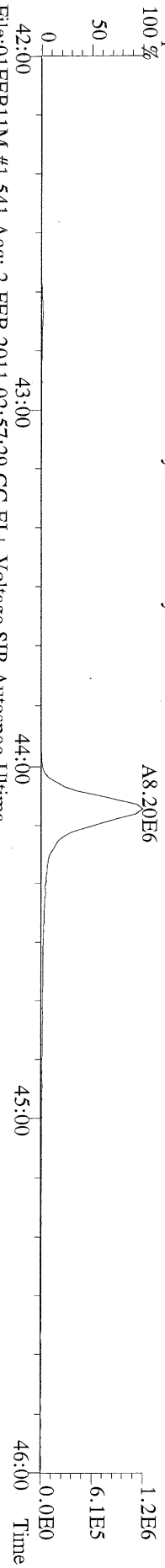
File:01FEB11M #1-541 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



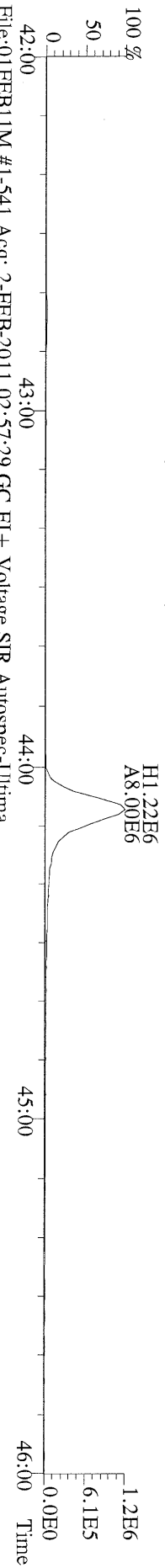
File:01FEB11M #1-541 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



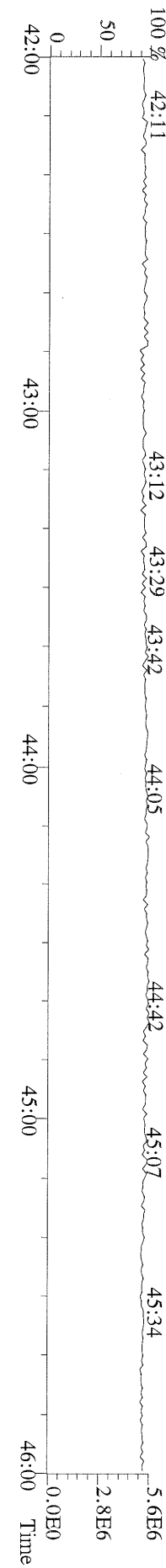
File:01FEB11M #1-541 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



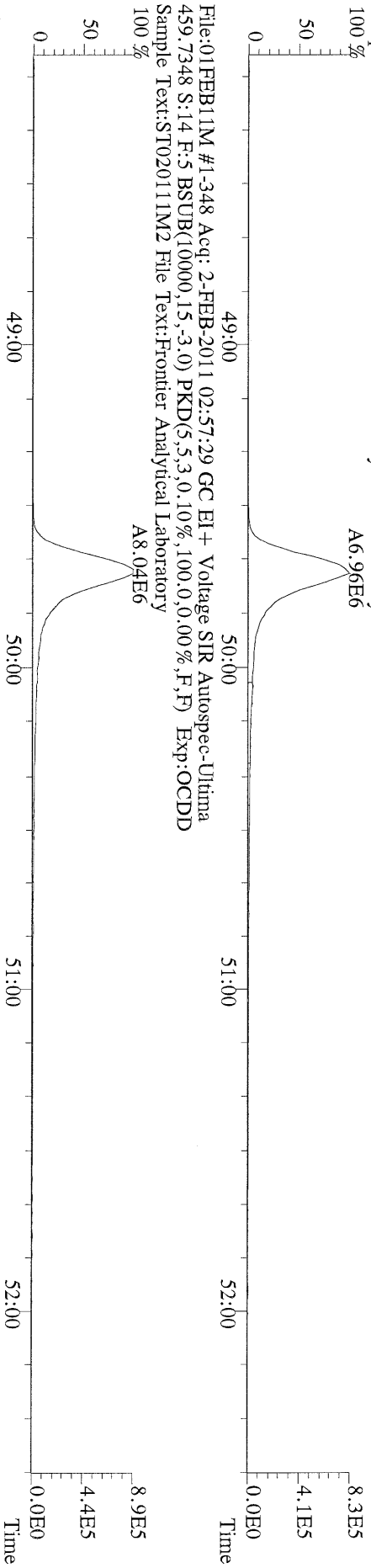
File:01FEB11M #1-541 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



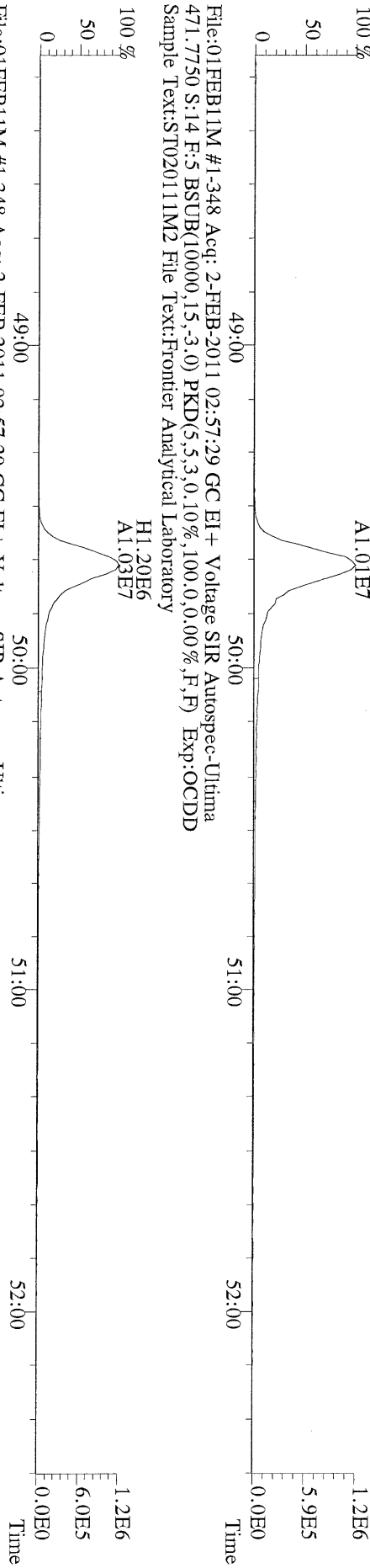
File:01FEB11M #1-541 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:14 F:4 Exp:OCDD
Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



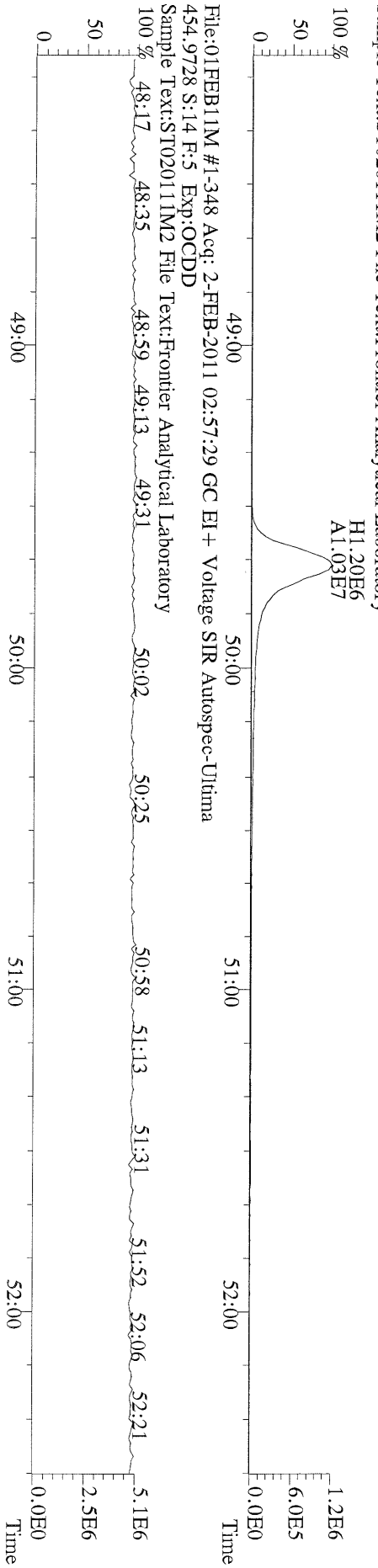
File:01FEB11M #1-348 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011IM2 File Text:Frontier Analytical Laboratory
100 %



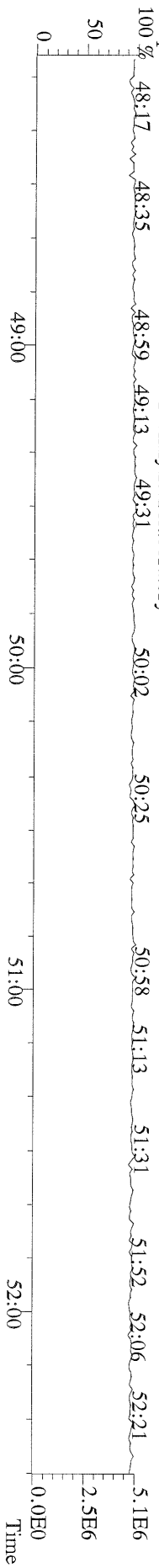
File:01FEB11M #1-348 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011IM2 File Text:Frontier Analytical Laboratory
100 %



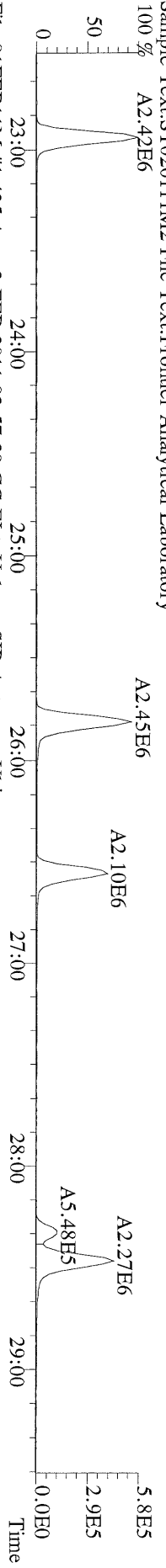
File:01FEB11M #1-348 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011IM2 File Text:Frontier Analytical Laboratory



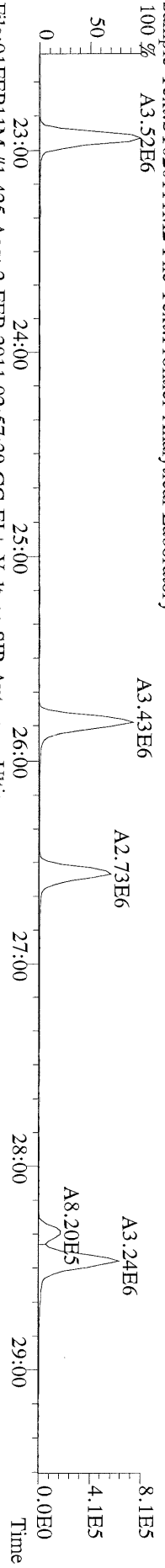
File:01FEB11M #1-348 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:14 F:5 Exp:OCDD
Sample Text:ST02011IM2 File Text:Frontier Analytical Laboratory



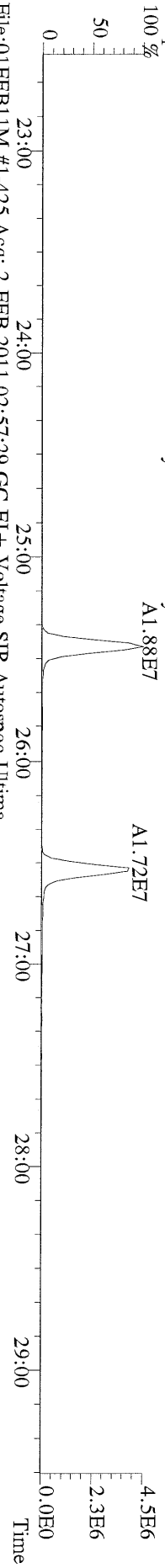
File:01FEB11M #1-425 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Utima
303.9016 S:14 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



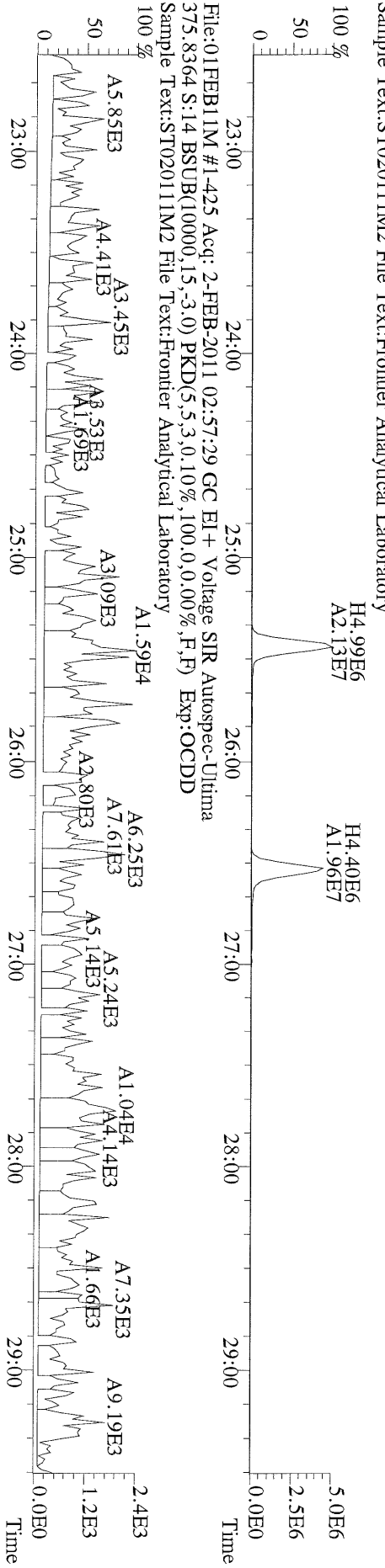
File:01FEB11M #1-425 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Utima
305.8987 S:14 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



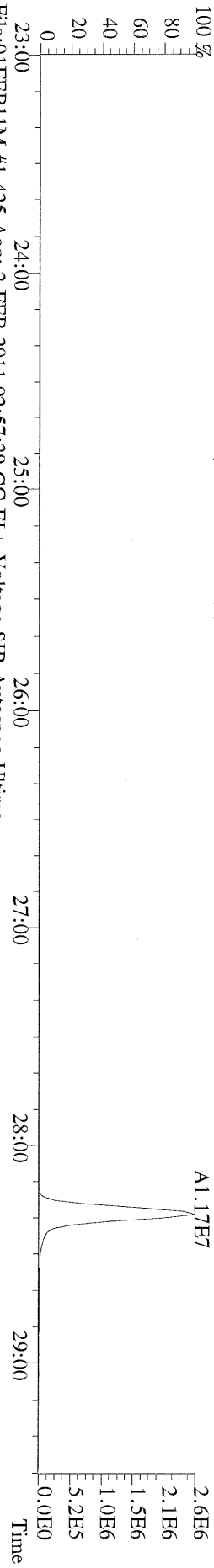
File:01FEB11M #1-425 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Utima
317.9389 S:14 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



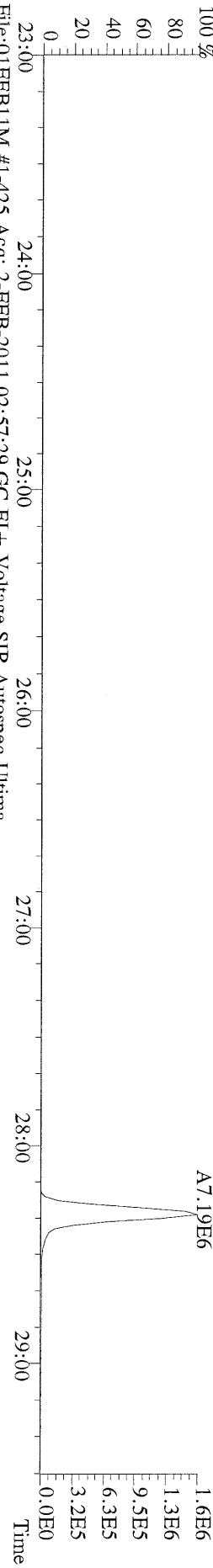
File:01FEB11M #1-425 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Utima
375.8364 S:14 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



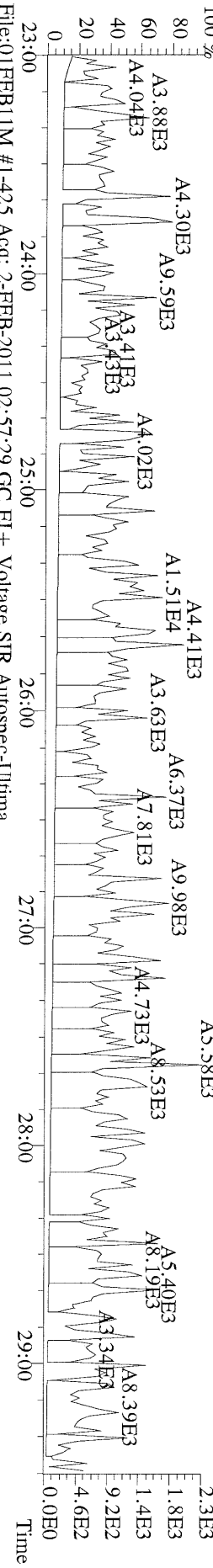
File:01FEB11M #1-425 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



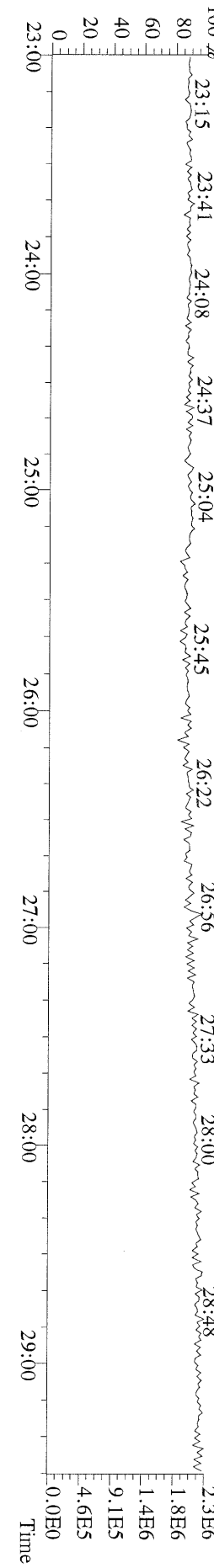
File:01FEB11M #1-425 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



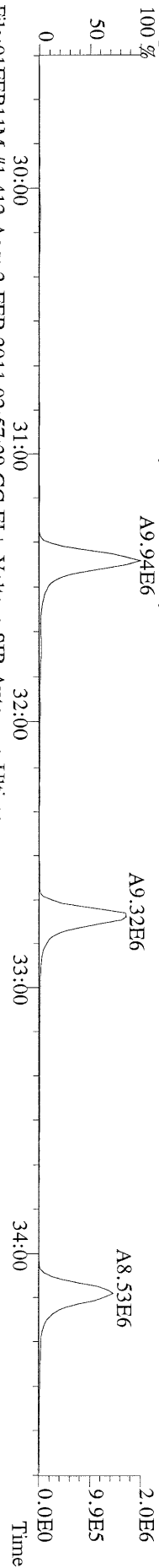
File:01FEB11M #1-425 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
 Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



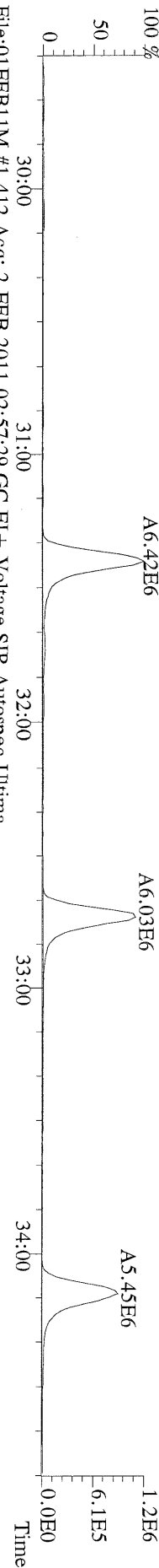
File:01FEB11M #1-425 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
 316.9824 S:14 Exp:OCDD
 Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



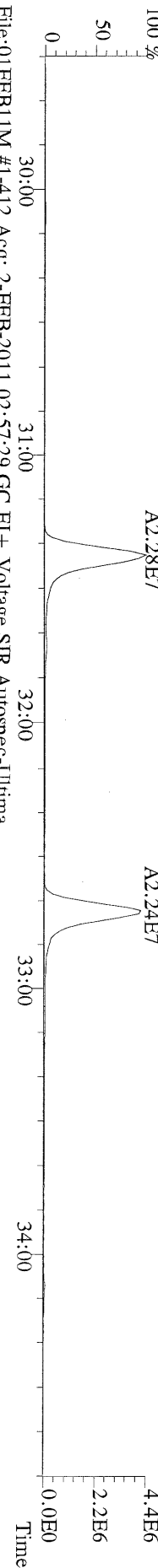
File:01FEB11M #1-412 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:14 F:2 BSUB(10000,15,-3,0) PKD(5.5,3,0,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST020111M2 File Text:Fronier Analytical Laboratory



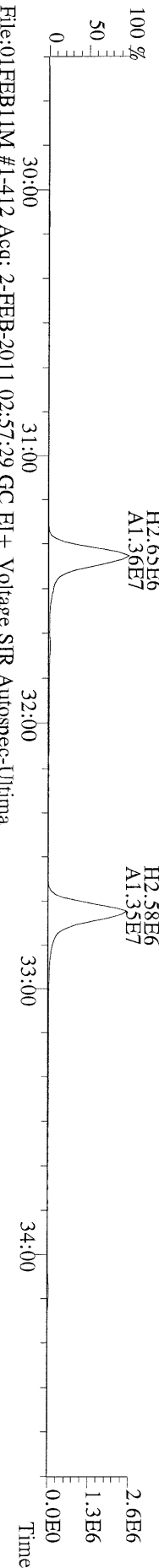
File:01FEB11M #1-412 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:14 F:2 BSUB(10000,15,-3,0) PKD(5.5,3,0,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST020111M2 File Text:Fronier Analytical Laboratory



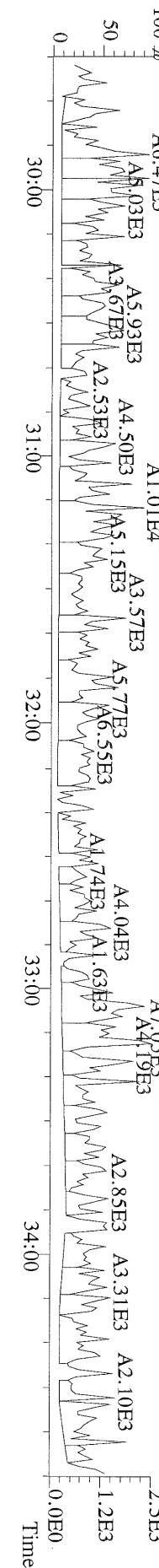
File:01FEB11M #1-412 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:14 F:2 BSUB(10000,15,-3,0) PKD(5.5,3,0,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST020111M2 File Text:Fronier Analytical Laboratory



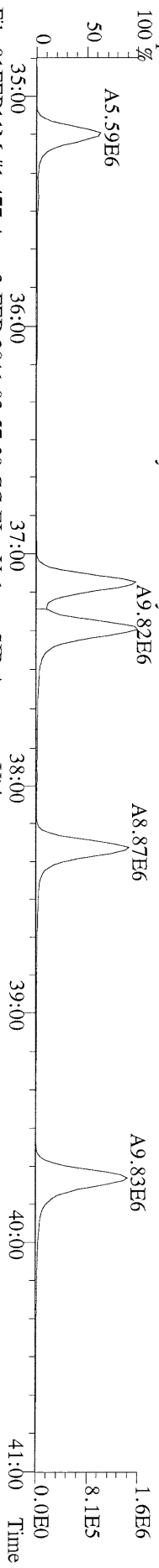
File:01FEB11M #1-412 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:14 F:2 BSUB(10000,15,-3,0) PKD(5.5,3,0,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST020111M2 File Text:Fronier Analytical Laboratory



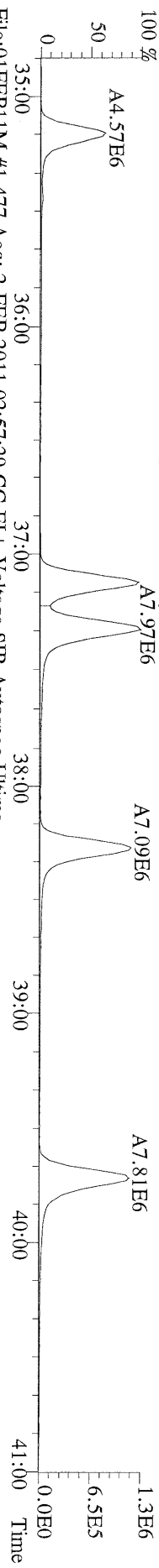
File:01FEB11M #1-412 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:14 F:2 BSUB(10000,15,-3,0) PKD(5.5,3,0,100,0,0,00%,F,F) Exp:OCDD
Sample Text:ST020111M2 File Text:Fronier Analytical Laboratory



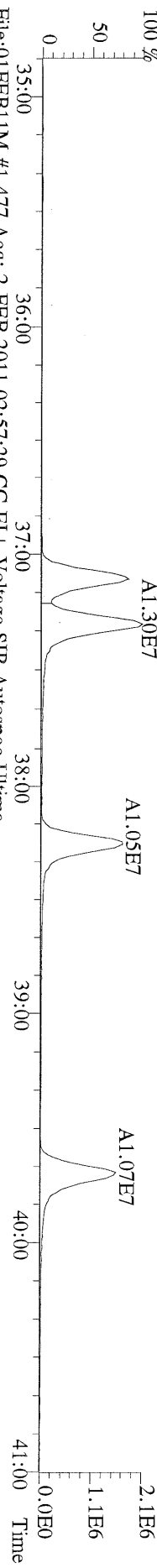
File:01FEB11M #1-477 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



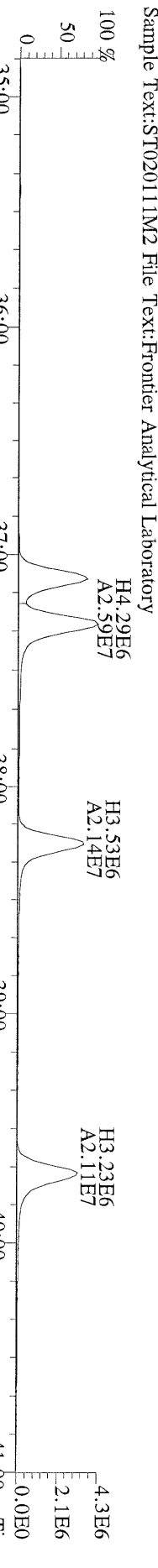
File:01FEB11M #1-477 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



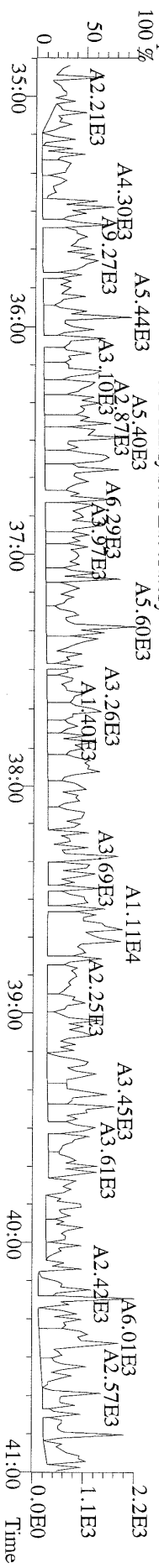
File:01FEB11M #1-477 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



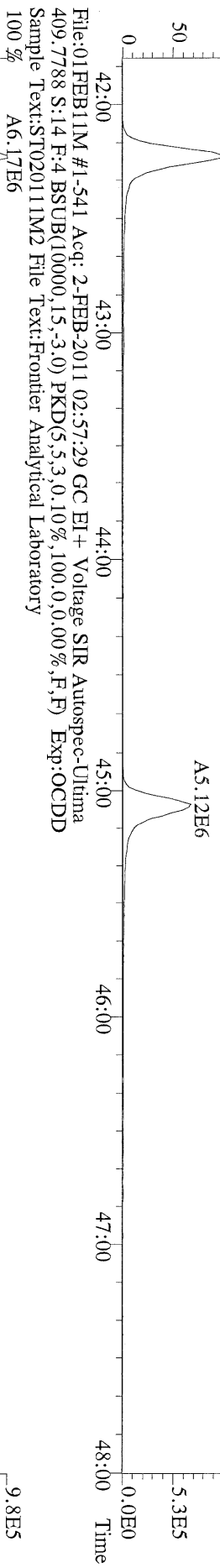
File:01FEB11M #1-477 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



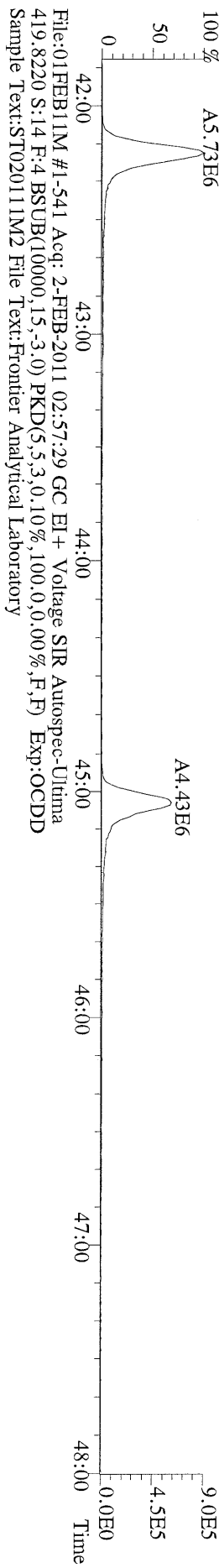
File:01FEB11M #1-477 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M2 File Text:Frontier Analytical Laboratory



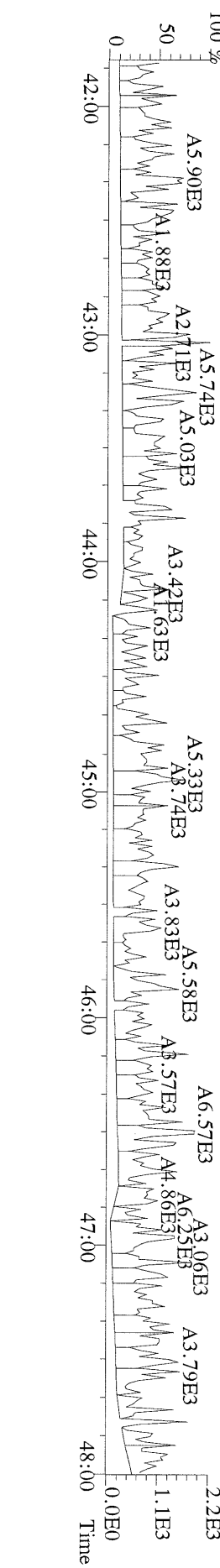
File:01FEB11M #1-541 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:14 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M2 File Text:Fronter Analytical Laboratory
100 % A6.70E6



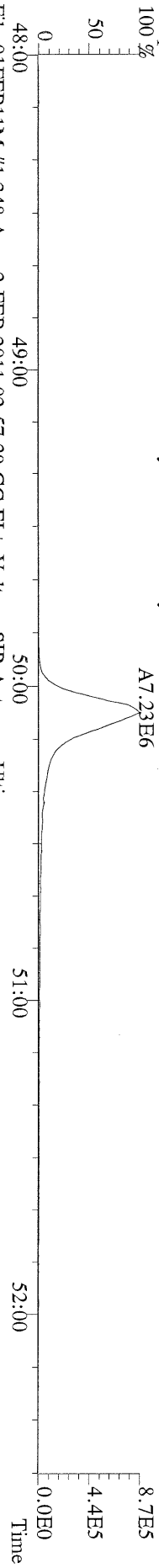
File:01FEB11M #1-541 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:14 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M2 File Text:Fronter Analytical Laboratory
100 % A5.73E6



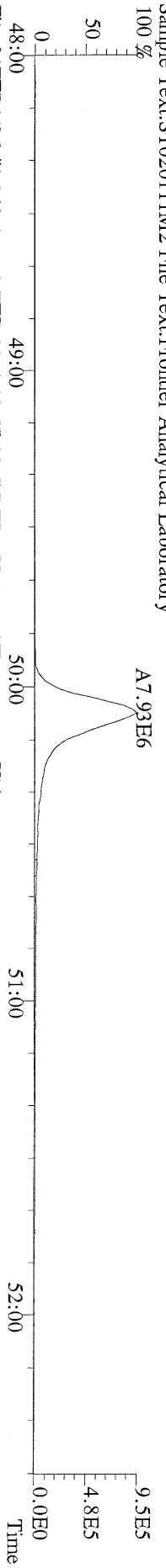
File:01FEB11M #1-541 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:14 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011M2 File Text:Fronter Analytical Laboratory
100 % A1.17E7



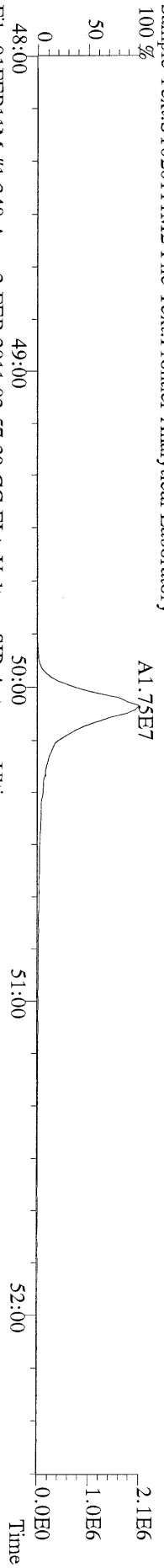
File:01FEB11M #1-348 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:14 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011IM2 File Text:Frontier Analytical Laboratory
100 %



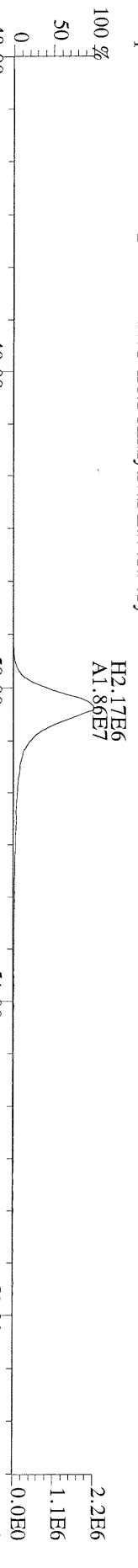
File:01FEB11M #1-348 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:14 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011IM2 File Text:Frontier Analytical Laboratory
100 %



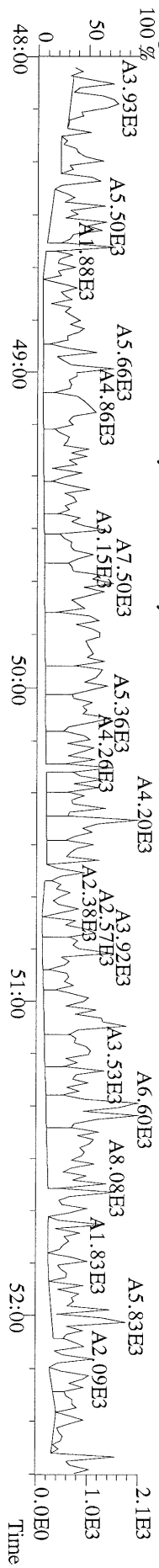
File:01FEB11M #1-348 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:14 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011IM2 File Text:Frontier Analytical Laboratory
100 %



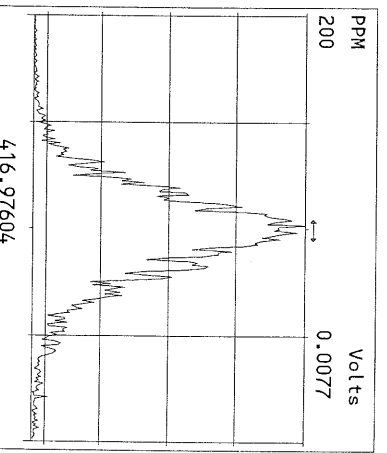
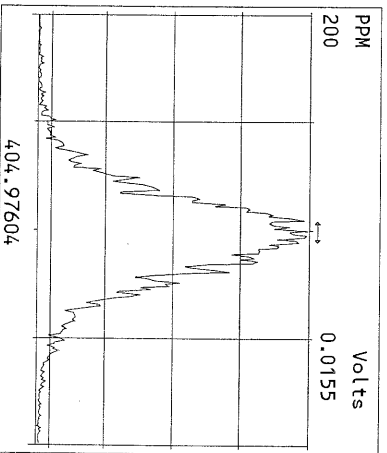
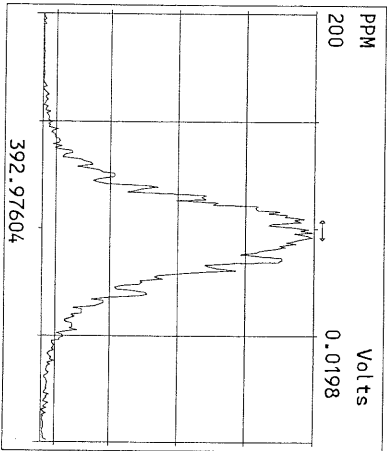
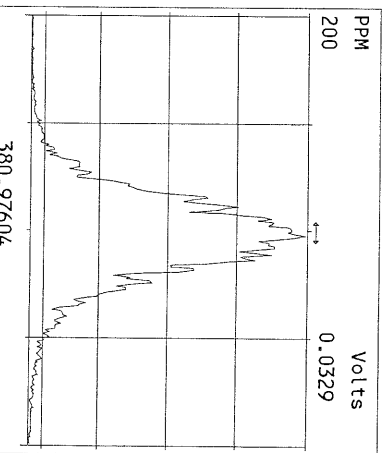
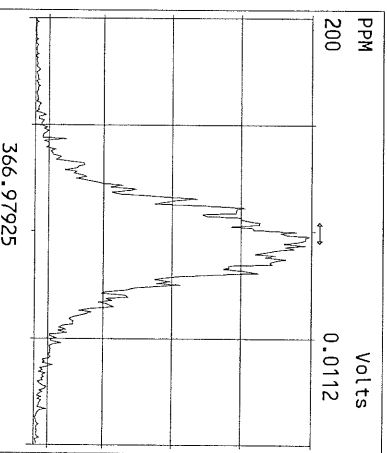
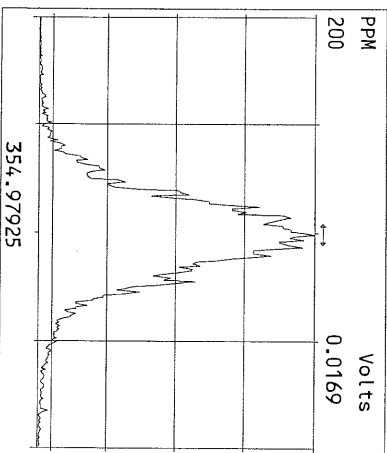
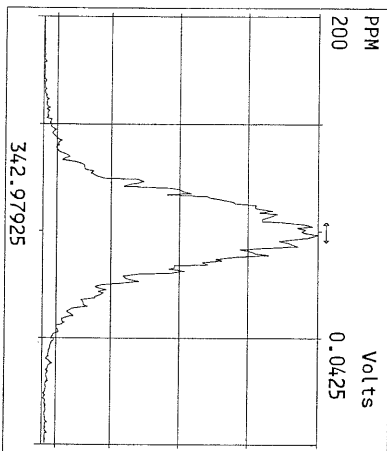
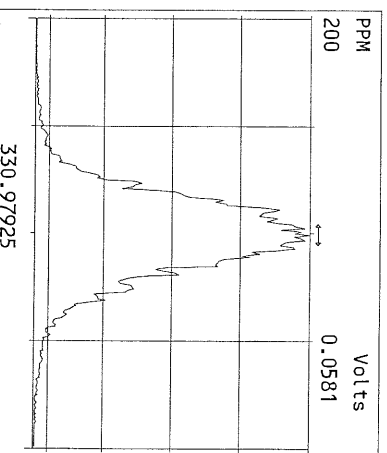
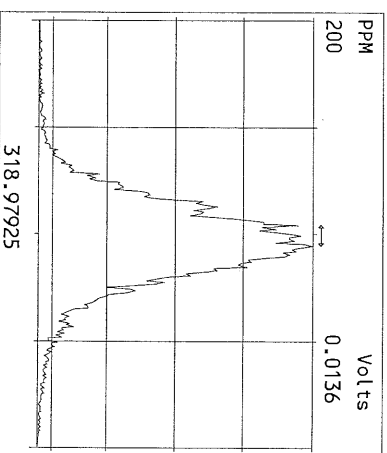
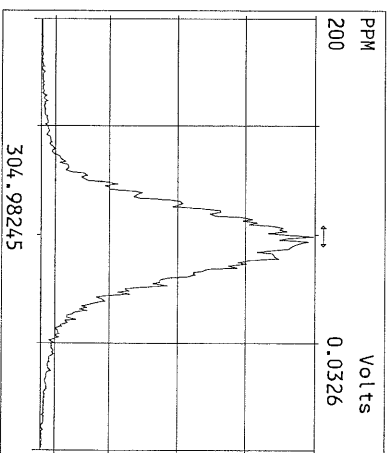
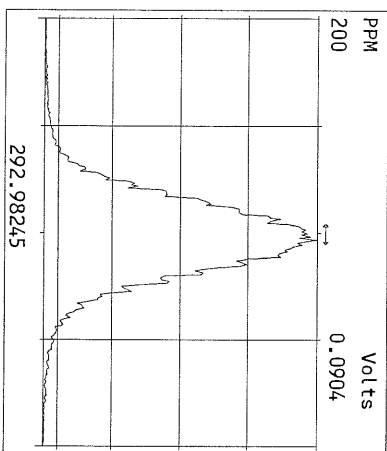
File:01FEB11M #1-348 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:14 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011IM2 File Text:Frontier Analytical Laboratory

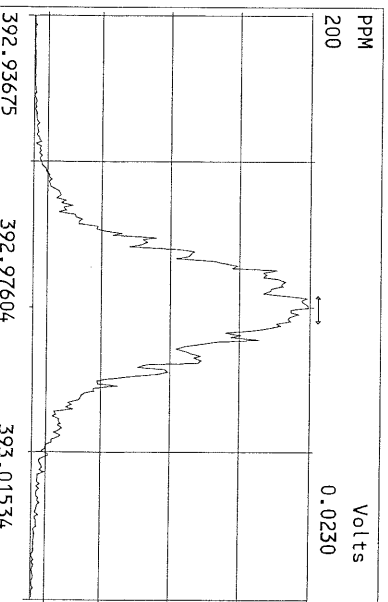
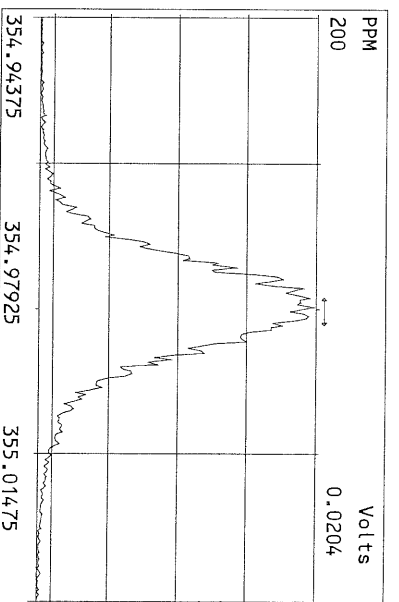
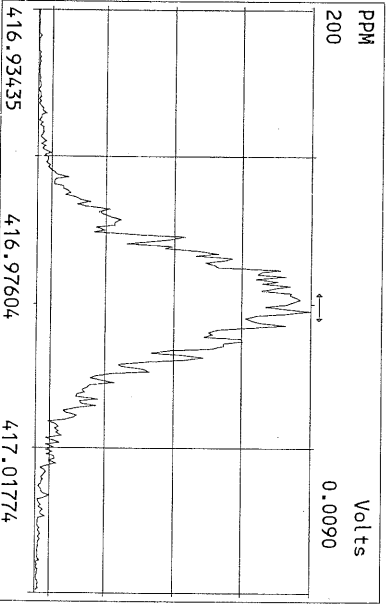
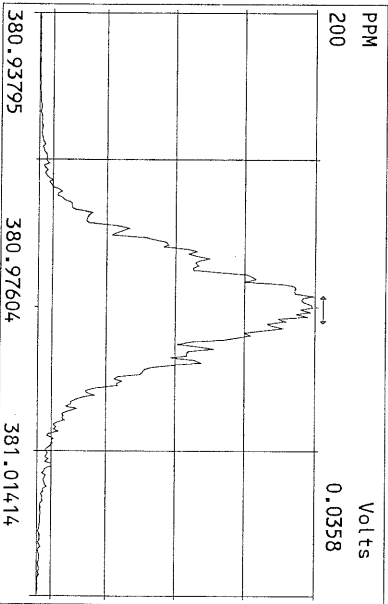
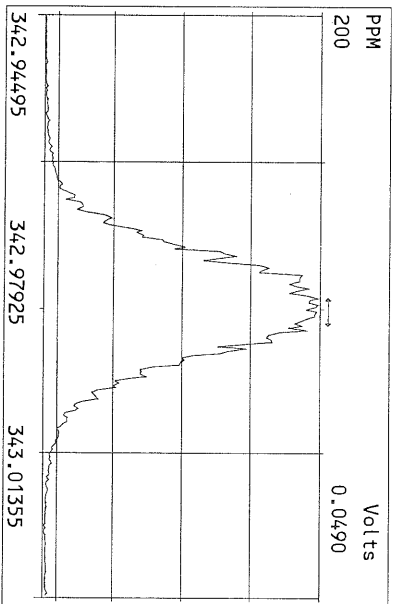
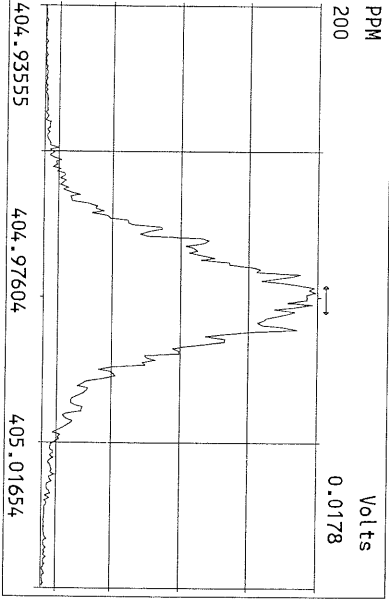
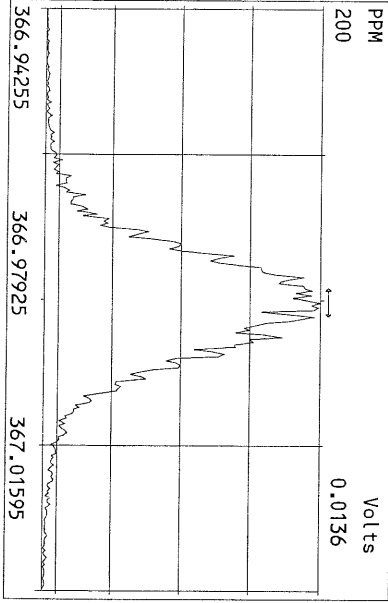
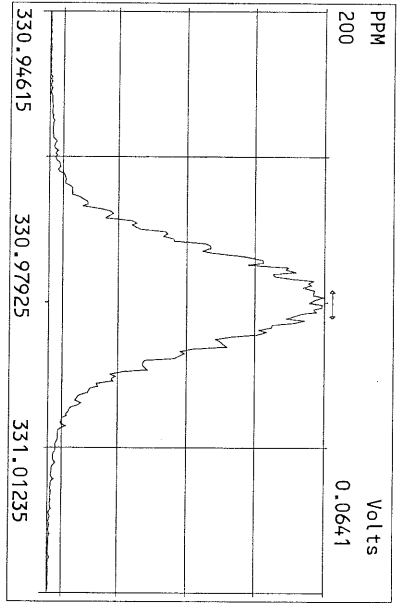


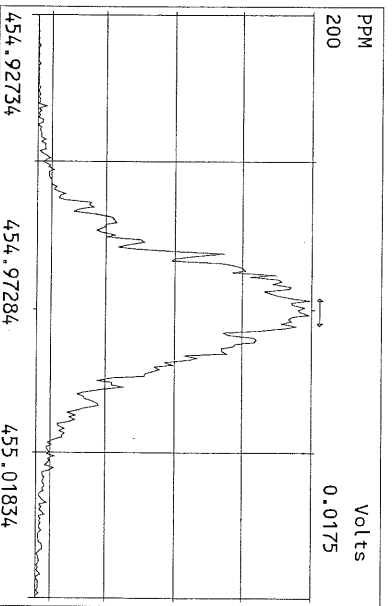
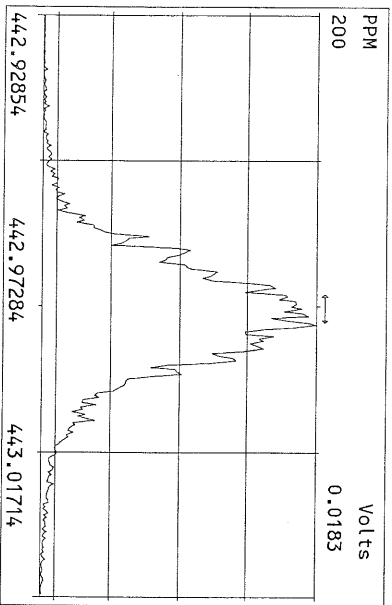
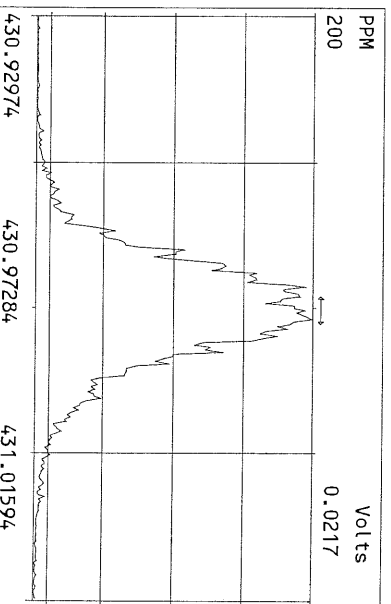
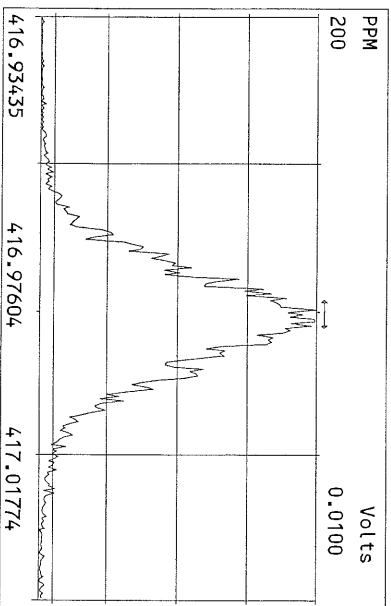
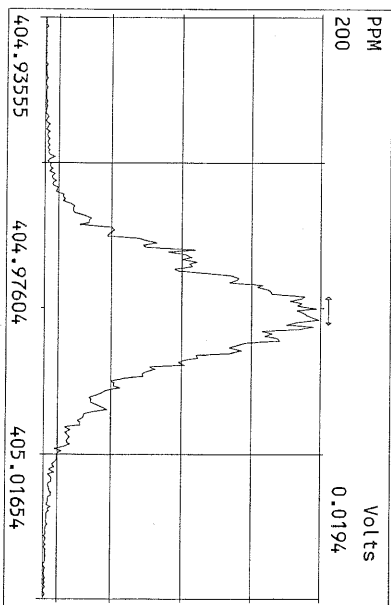
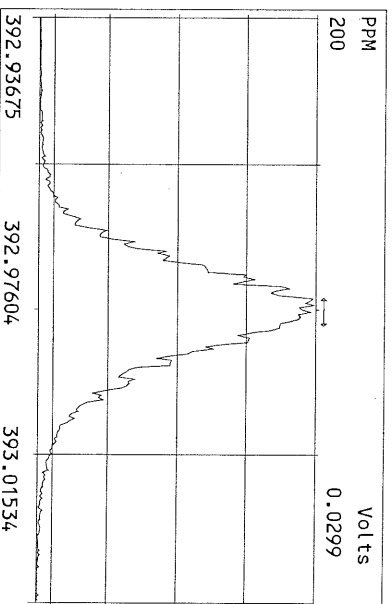
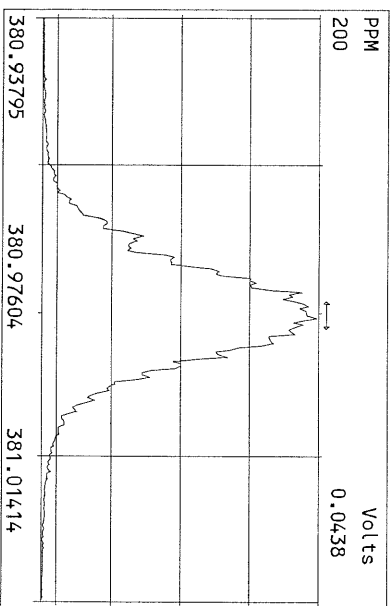
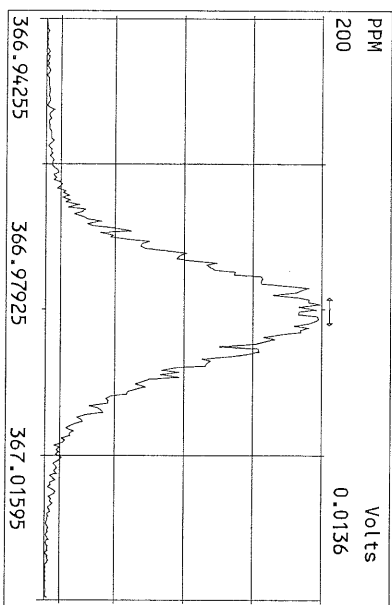
File:01FEB11M #1-348 Acq: 2-FEB-2011 02:57:29 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:14 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD
Sample Text:ST02011IM2 File Text:Frontier Analytical Laboratory

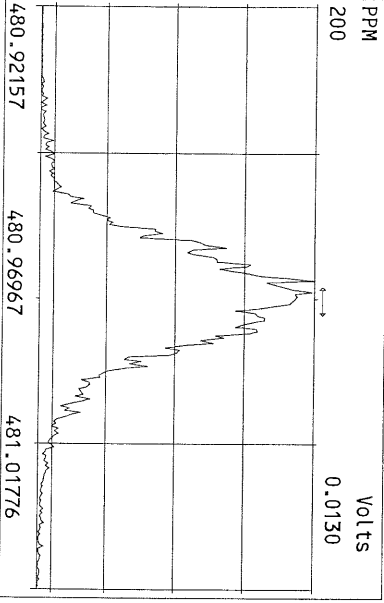
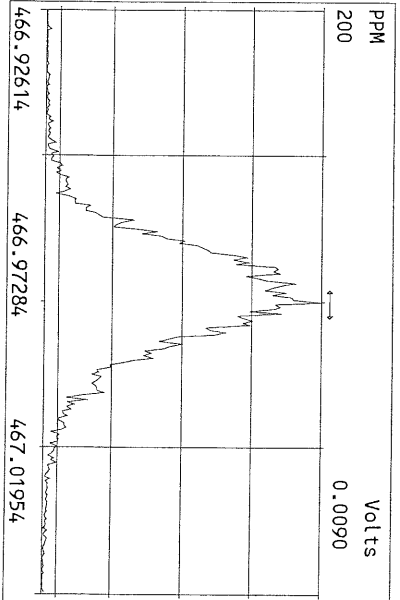
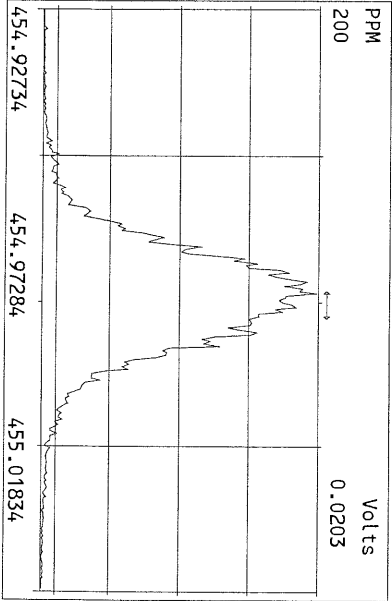
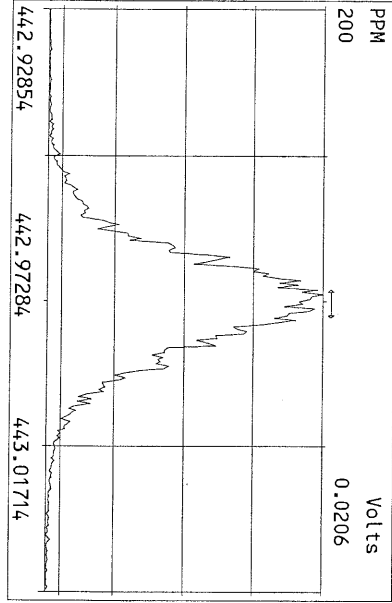
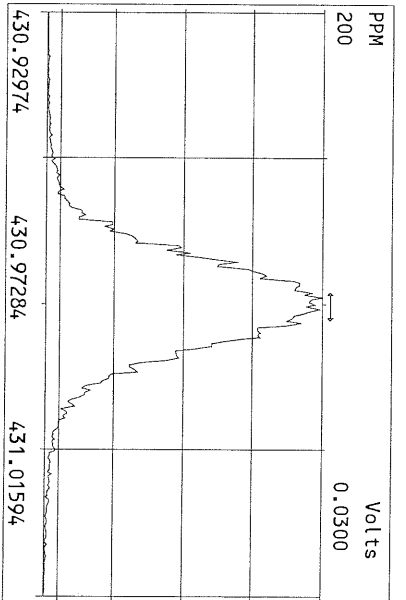
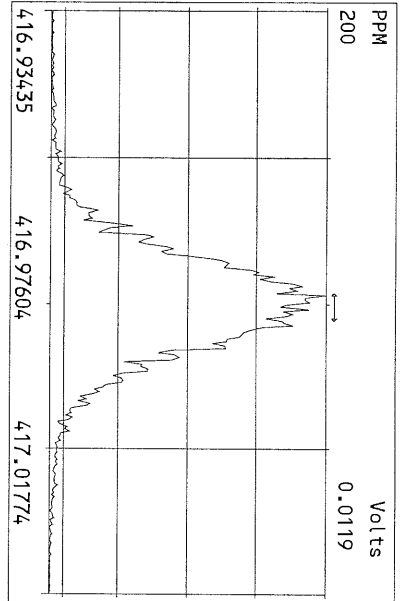
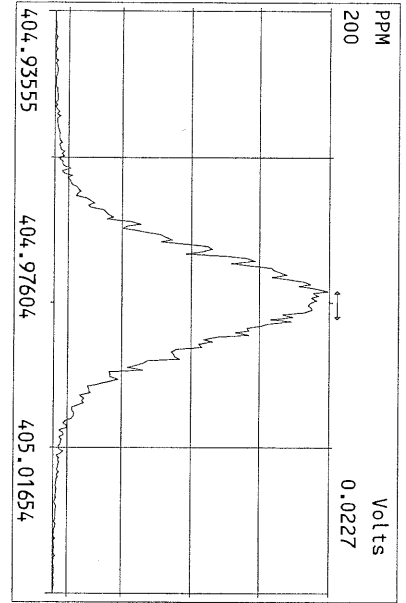


Peak Locate Examination: 2-FEB-2011:04:50 File:01FEB11M_RES_CHECK
Experiment:OCDD Function:1 Reference:PFK









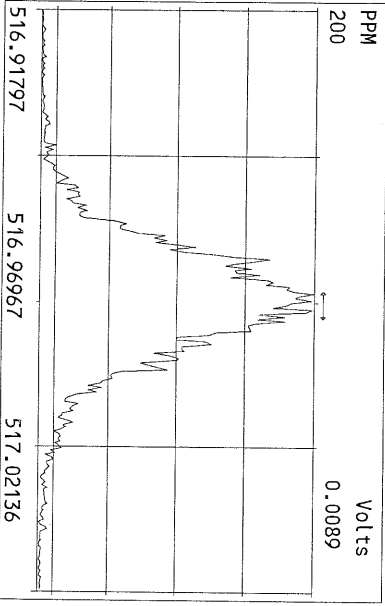
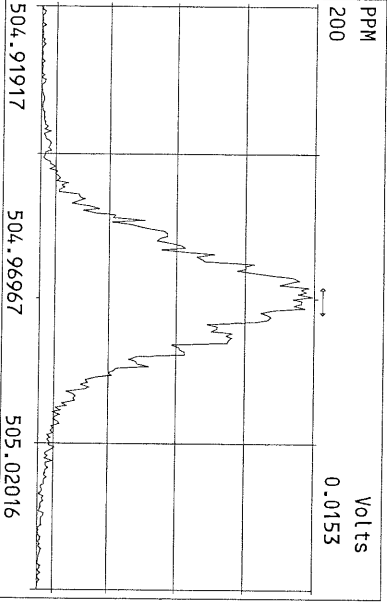
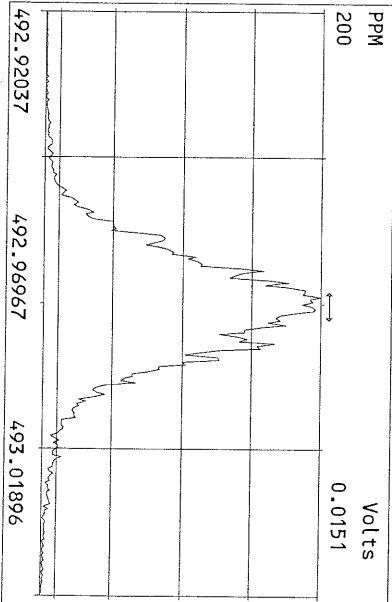
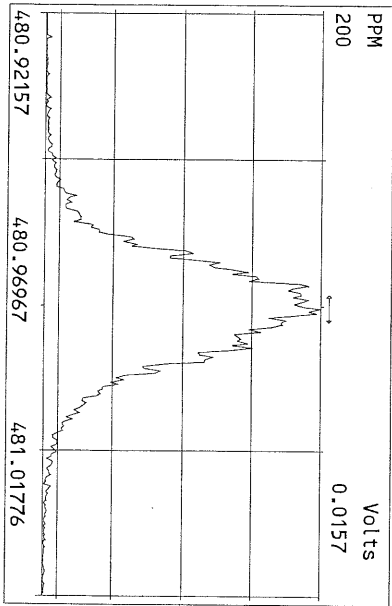
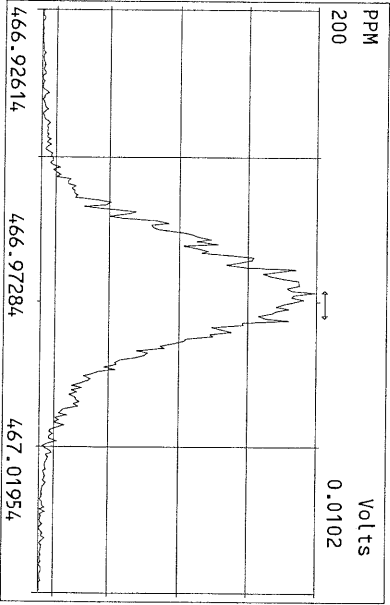
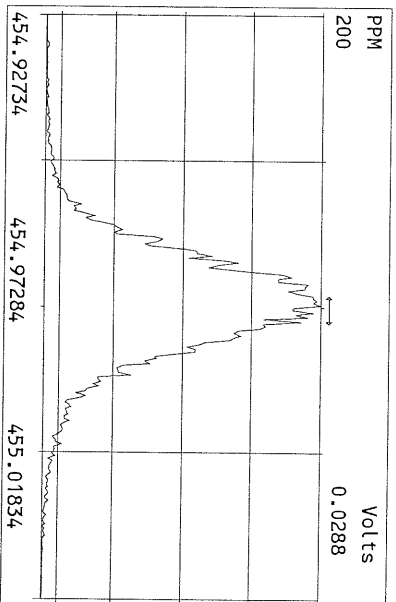
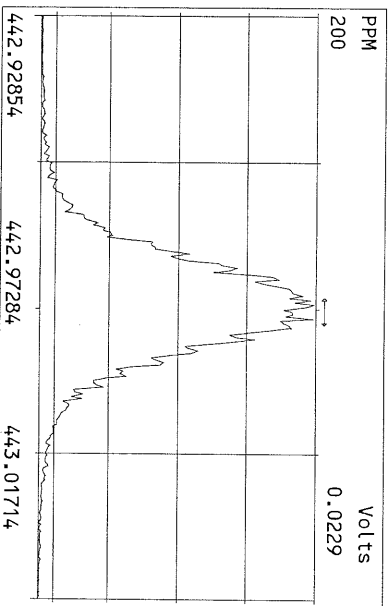
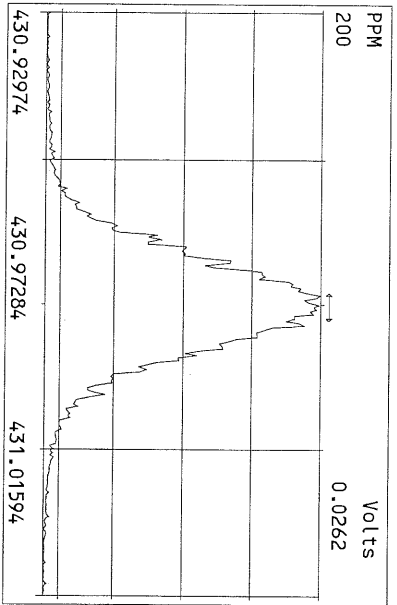



Table of Contents: ARI Job ST98, SU21

Client: Floyd Snider

Project: POS-LLA Task 4010 Lora Lake Apartments RI

	Page From:	Page To:
Inventory Sheet		
Cover Letter	<u>1</u>	<u>1</u>
Chain of Custody Documentation	<u>2</u>	<u>8</u>
Case Narrative, Data Qualifiers, Control Limits	<u>9</u>	<u>27</u>
SIM Volatile Analysis		
Report and Summary QC Forms	<u>28</u>	<u>61</u>
SIM PAH Analysis		
Report and Summary QC Forms	<u>62</u>	<u>90</u>
PCP/Chlorophenols Analysis		
Report and Summary QC Forms	<u>91</u>	<u>125</u>
TPHD Analysis		
Report and Summary QC Forms	<u>126</u>	<u>147</u>
TPHG/BETX Analysis		
Report and Summary QC Forms	<u>148</u>	<u>194</u>
Metals Analysis		
Report and Summary QC Forms	<u>195</u>	<u>221</u>
General Chemistry Analysis		
Report and Summary QC Forms	<u>222</u>	<u>234</u>
Subcontracted Analysis		
Report and Summary QC Forms	<u>NA</u>	<u>NA</u>
SIM Volatile Raw Data		
Initial Calibration	<u>235</u>	<u>341</u>
Run Logs, Continuing Calibrations, and Raw Data	<u>342</u>	<u>479</u>
SIM PAH Raw Data		
Extractions Bench Sheets and Notes	<u>480</u>	<u>482</u>
Initial Calibration	<u>483</u>	<u>529</u>
Run Logs, Continuing Calibrations, and Raw Data	<u>530</u>	<u>654</u>



 Signature


May-16-2011
 Date

Table of Contents: ARI Job ST98, SU21

Client: Floyd Snider

Project: POS-LLA Task 4010 Lora Lake Apartments RI

	Page From:	Page To:
PCP/Chlorophenols Raw Data		
Extractions Bench Sheets and Notes	<u>655</u>	<u>657</u>
Initial Calibration	<u>658</u>	<u>707</u>
Run Logs, Continuing Calibrations, and Raw Data	<u>708</u>	<u>800</u>
TPHD Raw Data		
Extractions Bench Sheets and Notes	<u>801</u>	<u>803</u>
Initial Calibration	<u>804</u>	<u>877</u>
Run Logs, Continuing Calibrations, and Raw Data	<u>878</u>	<u>950</u>
TPHG/BETX Raw Data		
Initial Calibration	<u>951</u>	<u>1078</u>
Run Logs, Continuing Calibrations, and Raw Data	<u>1079</u>	<u>1183</u>
Metals Raw Data		
Preparation Bench Sheets and Notes	<u>1184</u>	<u>1186</u>
Run Logs, Calibrations, and Raw Data	<u>1187</u>	<u>1288</u>
General Chemistry Raw Data		
Analyst Notes and Raw Data	<u>1289</u>	<u>1295</u>



Signature

May-16-2011
Date



Analytical Resources, Incorporated
Analytical Chemists and Consultants

May 27, 2011

Megan McCullough
Floyd-Snider Inc.
601 Union Street, Suite 600
Seattle, WA 98101-2341

RE: Lora Lake Parcel, POS-LL 4010
ARI Jobs: ST98 & SU21

Dear Megan:

Please find enclosed the original Chain-of-Custody (COC) records, sample receipt documentation, and the final data package for samples from the project referenced above.

Sample receipt and detail of these analyses are discussed in the Case Narrative.

An electronic copy of this package will remain on file with ARI. Should you have any questions or problems, please feel free to contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Susan D. Dunnihoo
Director, Client Services
sue@arilabs.com
206-695-6207

Enclosures

cc: eFile ST98

Chain of Custody Documentation

ARI Job ID: ST98, SU21

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: **ST98** Turn-around Requested: **std** of **1** Page: **1** of **1**

ARI Client Company: **Floyd Snider** Phone: **206-292-2078** Ice Present? **Y**

Client Contact: **Megan McCullough** Cooler Temps: **5:8, 4:5, 2:9, 2:3**

Client Project Name: **Bora Lake Apts RI** No. of Coolers: **4**

Client Project #: **POS-44 64010** Samplers: **K. Anderson A. McKay**

Sample ID	Date	Time	Matrix	No Containers
MW02-042611	4/26/11	1020	W	16
MW03-042611	4/26/11	1325	W	16
MW13-042611	4/26/11	1450	W	16
MW06-042611	4/26/11	1600	W	38
TB-042611	4/26/11	1620	W	2

Analysis Requested

CPAH/PCD (8703-SIM/STD) **X**

MDPH-DX **X**

MDPH-6 **X**

RETX (802) **X**

D:5 Pb/As **X**

VOCs (826X) **X**

SIM+626C **X**

TSS (25402) **X**

PH (150-1) **X**

Dioxin (167) **X**

Analysis Requested	Requested	Received	Relinquished
CPAH/PCD (8703-SIM/STD)	X	X	X
MDPH-DX	X	X	X
MDPH-6	X	X	X
RETX (802)	X	X	X
D:5 Pb/As	X	X	X
VOCs (826X)	X	X	X
SIM+626C	X	X	X
TSS (25402)	X	X	X
PH (150-1)	X	X	X
Dioxin (167)	X	X	X

Comments/Special Instructions

Relinquished by (Signature): *[Signature]* Received by (Signature): *[Signature]*

Printed Name: **Kristin Anderson** Company: **ARI**

Printed Name: **A. Volgardsen** Company: **ARI**

Date & Time: **4/26/2011 1731**

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)



Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

00000: 9815



Cooler Receipt Form

ARI Client: Floyd Smider

Project Name: Lora Lake Apts, RI

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier (Hand Delivered Other: _____)

Assigned ARI Job No: ST98

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 5.8 4.5 2.9 2.2

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90941619

Cooler Accepted by: AV Date: 4/26/11 Time: 1731

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

Were all bottles sealed in individual plastic bags? YES NO

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI..... 4/26/11

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JM Date: 4/27/11 Time: 11051

**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:
Trip Blank = sm in 2022

By: JM Date: 4/27/11

<p>Small Air Bubbles ~2mm</p>	<p>Peabubbles 2-4 mm</p>	<p>LARGE Air Bubbles > 4 mm</p>	<p>Small → "sm"</p> <p>Peabubbles → "pb"</p> <p>Large → "lg"</p> <p>Headspace → "hs"</p>
-----------------------------------	------------------------------	--	--



ARI Job No: ST98

PC: Sue D.

VTSR: 04/26/11

Inquiry Number: NONE
 Analysis Requested: 04/27/11
 Contact: McCullough, Megan
 Client: Floyd Snider
 Logged by: JM
 Sample Set Used: Yes-481
 Validatable Package: No
 Deliverables:

Project #: POS-LLA T.4010
 Project: Lora Lake Apts RI
 Sample Site:
 SDG No:
 Analytical Protocol: In-house

LOGNUM	ARI ID	CLIENT ID	CN	WAD	NH3	COD	FOG	MET	PHEN	PHOS	TKN	NO23	TOC	S2	AK102	Fe2+	DMET	DOC	FLT	FLT	PARAMETER	ADJUSTED	LOT	AMOUNT	DATE/BY
			>12	>12	<2	<2	<2	<2	<2	<2	<2	<2	<2	>9	<2	<2	FLT	FLT	TO	NUMBER	ADDED				
11-9409	ST98A	MW02-042611						DJS									N								
11-9410	ST98B	MW03-042611						DJS									N								
11-9411	ST98C	MW13-042611						DJS									N								
11-9412	ST98D	MW06-042611						DJS									N								

Filtered & Preserved
 in Lab (HW3 → I6167)
 MH 5/02/11

ST98 : 00005

Checked By JM Date 4/27/11



Cooler Receipt Form

ARI Client: Floud Snider

Project Name: Lora Lakes Apts. RI

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier (Hand Delivered Other: _____)

Assigned ARI Job No: SCU 21

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler? YES (NO)

Were custody papers included with the cooler? YES (YES) NO

Were custody papers properly filled out (ink, signed, etc.) YES (YES) NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 0.4 5.8 6.0 4.4

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90941619

Cooler Accepted by: AV Date: 4/27/11 Time: 1720

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES (NO)

What kind of packing material was used? ... Bubble Wrap (Wet Ice) Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA (YES) NO

Were all bottles sealed in individual plastic bags? YES (NO)

Did all bottles arrive in good condition (unbroken)? YES (YES) NO

Were all bottle labels complete and legible? YES (YES) NO

Did the number of containers listed on COC match with the number of containers received? YES (YES) NO

Did all bottle labels and tags agree with custody papers? YES (YES) NO

Were all bottles used correct for the requested analyses? YES (YES) NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)... (NA) YES NO

Were all VOC vials free of air bubbles? NA (YES) NO

Was sufficient amount of sample sent in each bottle? YES (YES) NO

Date VOC Trip Blank was made at ARI..... NA (4/26/11)

Was Sample Split by ARI : (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: MM Date: 4/28/11 Time: 0800

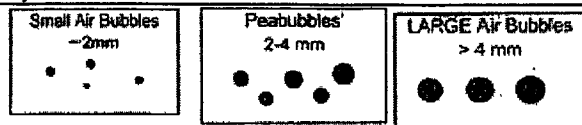
**** Notify Project Manager of discrepancies or concerns ****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: _____

Date: _____



Small → "sm"

Peabubbles → "pb"

Large → "lg"

Headspace → "hs"



ARI Job No: SU21

PC: Sue D.
VTSR: 04/27/11

Project #: POS-LIA Task 4010
Project: Lora Lake Apartments RI
Sample Site:
SDG No:
Analytical Protocol: In-house

PRESERVATION VERIFICATION 04/28/11

Page 1 of 1

Inquiry Number: NONE
Analysis Requested: 04/28/11
Contact: McCullough, Megan
Client: Floyd Snider
Logged by: MM
Sample Set Used: Yes-481
Validatable Package:
Deliverables:

LOGNUM ARI ID	CLIENT ID	CN >12	WAD >12	NH3 <2	COD <2	FOG <2	MET <2	PHEN <2	PHOS <2	TKN <2	NO23 <2	TOC <2	S2 >9	AK102 <2	Fe2+ <2	DMET DOC FLT FLT	PARAMETER	ADJUSTED TO	LOT NUMBER	AMOUNT ADDED	DATE/BY
11-9507 SU21A	MW07-042711						DIS									N					
11-9508 SU21B	MW11-042711						DIS									N					
11-9509 SU21C	MW10-042711						DIS									N					
11-9510 SU21D	MW09-042711						DIS									N					
11-9511 SU21E	MW08-042711						DIS									N					
11-9512 SU21F	MW12-042711						DIS									N					

Filtered & preserved
in Lab (HNO₃ → IF6167)
MH 5/02/11

Checked By MM Date 4/28/11

Case Narrative, Data Qualifiers, Control Limits

ARI Job ID: ST98, SU21



Case Narrative

Client: Floyd Snider
Project: Lora Lake Parcel, POS-LL 4010
ARI Job No.: ST98 & SU21

Sample receipt

Analytical Resources, Inc. (ARI) accepted four groundwater samples and one trip blank on April 26, 2011 under ARI job ST98. The cooler temperatures measured by IR thermometer following ARI SOP were between 2.3 and 5.8°C.

Six additional samples and one trip blank were accepted on April 27, 2011 under ARI job SU21. The cooler temperatures measured by IR thermometer following ARI SOP were between 0.4 and 6.0°C. For details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

Dioxin/Furan analyses were subcontracted to Frontier Analytical Laboratory in El Dorado Hills, CA. The dioxin data on CD as generated by Frontier is forwarded with this package.

Volatiles by SW8260-SIM

The samples and associated laboratory QC were analyzed within method recommended holding times.

Initial and continuing calibrations were within method requirements for requested compounds. Internal standard areas were within limits.

The surrogate percent recoveries were within limits.

The method blanks were clean at the reporting limit. The LCS and LCSD percent recoveries were within control limits, with an allowed outlier for cis-1,2-Dichloroethene in the 05/03/11 LCSD at 79.4% (limit 80%).

The matrix spike and matrix spike duplicate percent recoveries were within advisory control limits.

SIM PAHs by SW8270D

The samples and associated laboratory QC were extracted and analyzed within the method recommended holding times.

Initial and continuing calibrations were within method requirements. The internal standard areas were within limits.



The surrogate percent recoveries were within control limits.

The method blank had response of Indeno(1,2,3-cd)Pyrene below the reporting limit. Associated results have been “B” flagged in matrix QC. The compound was not detected in the samples. The LCS and LCSD percent recoveries were within control limits.

The matrix spike and matrix spike duplicate percent recoveries were within advisory control limits.

The ‘total’ benzofluoranthenes result includes the response of the b, k and j isomers.

Pentachlorophenol by SW8041

The samples and associated laboratory QC were extracted and analyzed within the method recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blanks were clean at the reporting limit. The LCS and LCSD percent recoveries were within control limits.

The matrix spike and matrix spike duplicate percent recoveries were within advisory control limits.

Acid/Silica Cleaned NWTPH-Dx

The samples and associated laboratory QC were extracted and analyzed within the method recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blanks were clean at the reporting limit. The LCS and LCSD percent recoveries were within control limits.

The matrix spike and spike duplicate percent recoveries were within advisory control limits.



NWTPH-Gx and BETX by SW8021

The samples and associated laboratory QC were analyzed within the method recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limit. The LCS and LCSD percent recoveries were within control limits.

The matrix spike and matrix spike duplicate had percent recoveries were within advisory control limits.

Total Arsenic and Lead by EPA 200.8

The samples and associated laboratory QC were digested and analyzed within the method recommended holding time.

Calibrations were within control limits.

The method blanks were clean at the reporting limits. The LCS percent recoveries were within control limits.

The matrix spike percent recoveries and duplicate RPDs were within control limits.

General Chemistry

The samples and associated laboratory QC were prepared and analyzed within the method recommended holding time.

The method blanks were clean at the reporting limits.

The LCS percent recoveries were within control limits.

The replicate RSDs were within control limits.

Sample ID Cross Reference Report



ARI Job No: ST98
Client: Floyd Snider
Project Event: POS-LLA T.4010
Project Name: Lora Lake Apts RI

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. MW02-042611	ST98A	11-9409	Water	04/26/11 10:20	04/26/11 17:31
2. MW03-042611	ST98B	11-9410	Water	04/26/11 13:25	04/26/11 17:31
3. MW13-042611	ST98C	11-9411	Water	04/26/11 14:50	04/26/11 17:31
4. MW06-042611	ST98D	11-9412	Water	04/26/11 16:00	04/26/11 17:31
5. TB-042611	ST98E	11-9413	Water	04/26/11	04/26/11 17:31

Printed 04/27/11

Sample ID Cross Reference Report



ARI Job No: SU21
Client: Floyd Snider
Project Event: POS-LLA Task 4010
Project Name: Lora Lake Apartments RI

Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1. MW07-042711	SU21A	11-9507	Water	04/27/11 09:15	04/27/11 17:25
2. MW11-042711	SU21B	11-9508	Water	04/27/11 10:40	04/27/11 17:25
3. MW10-042711	SU21C	11-9509	Water	04/27/11 11:40	04/27/11 17:25
4. MW09-042711	SU21D	11-9510	Water	04/27/11 13:10	04/27/11 17:25
5. MW08-042711	SU21E	11-9511	Water	04/27/11 14:17	04/27/11 17:25
6. MW12-042711	SU21F	11-9512	Water	04/27/11 15:50	04/27/11 17:25
7. TB-042711	SU21G	11-9513	Water	04/27/11	04/27/11 17:25

Printed 04/28/11



Data Reporting Qualifiers

Effective 2/14/2011

Inorganic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Duplicate RPD is not within established control limits
- B Reported value is less than the CRDL but \geq the Reporting Limit
- N Matrix Spike recovery not within established control limits
- NA Not Applicable, analyte not spiked
- H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
- L Analyte concentration is ≤ 5 times the Reporting Limit and the replicate control limit defaults to ± 1 RL instead of the normal 20% RPD

Organic Data

- U Indicates that the target analyte was not detected at the reported concentration
- * Flagged value is not within established control limits
- B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.
- J Estimated concentration when the value is less than ARI's established reporting limits
- D The spiked compound was not detected due to sample extract dilution
- E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.
- Q Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria ($< 20\%$ RSD, $< 20\%$ Drift or minimum RRF).



- S** Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte
- NA** The flagged analyte was not analyzed for
- NR** Spiked compound recovery is not reported due to chromatographic interference
- NS** The flagged analyte was not spiked into the sample
- M** Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses
- M2** The sample contains PCB congeners that do not match any standard Aroclor pattern. The PCBs are identified and quantified as the Aroclor whose pattern most closely matches that of the sample. The reported value is an estimate.
- N** The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"
- Y** The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.
- EMPC** Estimated Maximum Possible Concentration (EMPC) defined in EPA Statement of Work DLM02.2 as a value "calculated for 2,3,7,8-substituted isomers for which the quantitation and /or confirmation ion(s) has signal to noise in excess of 2.5, but does not meet identification criteria" (Dioxin/Furan analysis only)
- C** The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column
- P** The analyte was detected on both chromatographic columns but the quantified values differ by $\geq 40\%$ RPD with no obvious chromatographic interference
- X** Analyte signal includes interference from polychlorinated diphenyl ethers. (Dioxin/Furan analysis only)
- Z** Analyte signal includes interference from the sample matrix or perfluorokerosene ions. (Dioxin/Furan analysis only)



Geotechnical Data

- A** The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.
- F** Samples were frozen prior to particle size determination
- SM** Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations
- SS** Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis
- W** Weight of sample in some pipette aliquots was below the level required for accurate weighting

SURRE SOLUTIONS

LABEL	SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.
A	1824-2	ABN	100/150	MEOH	07/22/11
B	1834-6	SIM PNA	15/75	ACETONE	10/05/11
C	NA	SIM ABN	25/37.5	MEOH	03/08/11
D	1795-4	LOW PCB	0.2	ACETONE	12/16/11
E	1771-3	HERB	62.5	MEOH	10/06/11
F	1791-3	PCP	12.5	ACETONE	12/09/11
G	1824-1	d8-DIOXANE	100	MEOH	08/14/11
H	1847-2	OP-PEST	25	ACETONE	03/23/12
I	1835-1	LOW S. PNA	1.5	ACETONE	10/05/11
J	1787-2	TBT-PORE	0.125	MECL2	11/27/11
K	1795-2	MED PCB	20	ACETONE	12/16/11
L	1785-4	TBT	2.5	MECL2	11/27/11
M	1767-1	EPH	1500	MECL2	06/02/11
N	1795-3	PCB	2	ACETONE	12/16/11
O	1821-3	TPH	450	MECL2	09/07/11
P	1813-2	HCID	2250	MECL2	08/05/11
Q	NA	EDB	1	MEOH	NA
R	1757-3	RESIN ACID	250	ACETONE	08/14/11
S*	NA	PBDE	.25	MEOH	NA
T	1768-2	ALKYL PNA	10	MEOH	07/22/11
U	NA	CONGENER	2.5	ACETONE	NA
V	1791-4	LOW PCP	1.25	ACETONE	12/09/11
	*reverified solution				

LCS SOLUTIONS

LABL SOLN ID	TEST	CONC. UG/ML	SOLVENT	EXP.	
1	1837-2	PCB 1660	20	ACETONE	01/01/12
2#	NA	BCOC PEST	10	ACETONE	NA
3	1793-3	PEST	01/02/10	ACETONE	12/15/11
4	1806-2	LOW PEST	.1/.2/1	ACETONE	12/15/11
5	1779-1	EPH	1500	MECL2	11/11/11
6	1791-5	PCP	12.5/125	ACETONE	12/10/11
7	1834-4	ABN	100	MEOH	08/21/11
8	1785-3	TBT	2.5	MECL2	11/27/11
9	1786-3	PORE TBT	.125/.25	MECL2	11/27/11
10	1790-1	ABN ACID	100/200	MEOH	06/07/11
11	1777-2	TPHD	15000	ACETONE	11/01/11
12	1790-2	ABN BASE	200	MEOH	06/07/11
13	1838-4	LOW PCB	2	ACETONE	01/31/12
14	1822-2	LOW ABN ACID	10/20	MEOH	06/07/11
15	1814-2	SIM PNA	15/75	MEOH	01/04/12
16	1834-5	1,4-DIOXANE	100	MEOH	08/25/11
17	1772-3	1248 PCB	10	ACETONE	05/01/11
18	1814-3	LOW SIM PNA	1.5	ACETONE	01/04/12
19	1815-2	AK103	7500	ACETONE	06/02/11
20	1843-3	PNA	100	ACETONE	08/14/11
21	1844-3	SKY/BHT	100	MEOH	09/24/11
22	1781-1	HERB	05 to 4000	MEOH	04/15/11
23	1822-3	LW ABN BASE	20	MEOH	06/07/11
24	1822-4	LOW ABN	10	ACETONE	10/01/11
25#	NA	DIPHENYL	100	MEOH	NA
26	1823-1	OP-PEST	25	MEOH	07/01/11
27	NA	STEROLS	200	MEOH	NA
28#	1807-1	ADD. PEST	2	ACETONE	08/31/11
29#	NA	DECANES	100	MEOH	NA

LCS SOLUTIONS

30	NA	EDB/DBCP	0.2	MEOH	NA
31	1835-2	TERPINEOL	100	MEOH	09/02/11
32	NA	GUAIACOL	50-200	ACETONE	NA
33	NA	RETENE	100	MEOH	NA
34	1842-1	CONGENERS	0.5	ACETONE	03/14/12
35	NA	ALKYL PNA A	10	MEOH	NA
36	NA	ALKYL PNA B	10	MEOH	NA
37	1773-1	CAR/PERY	100	ACETONE	10/14/11
38	1846-2	ABN ACID	200-450	MEOH	09/25/11
50	1757-4	FULL RESIN	250	ACETONE	08/14/11
51	1772-1	DDTS	0.01	ACETONE	04/24/11
52	NA	1232 PCB	20	ACETONE	NA
53	1780-1	DALAPON	50	MEOH	05/07/11
54	1753-1	T-CHLORDANE	10	ACETONE	07/21/11
55	1753-2	TOXAPHENE	50	ACETONE	07/21/11
56	1846-3	ABN BASE	50-200	MEOH	09/25/11
		#=PROJECT SPECIFIC SOLUTION			
		*=REVERIFIED SOLUTION			



Spike Recovery Control Limits for SIM VOA EPA Method SW-846-8260C ^(1,2) Effective 8/30/2010	
Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip	
Sample Matrix:	Water
Purge Volume:	10 mL
LCS Spike Recovery ⁽³⁾	
Vinyl Chloride	76 - 120
1,1-Dichloroethene	80 - 120
1,2-Dichloroethane	80 - 128
<i>cis</i> -1,2-Dichloroethene	80 - 120
<i>trans</i> -1,2-Dichloroethene	80 - 120
Trichloroethene	80 - 120
Benzene	80 - 120
Tetrachloroethene	80 - 122
1,1,2,2-Tetrachloroethane	80 - 128
Method Blank/LCS Surrogate Recovery	
d4-1,2-Dichloroethane	78 - 126
d8-Toluene	80 - 120
Sample Surrogate Recovery	
d4-1,2-Dichloroethane	80 - 129
d8-Toluene	80 - 120

(1) Control limits calculated using historic data collected from 1/1/10 to 8/23/10

(2) Highlighted control limits (**bold font**) adjusted from the calculated values as follows:

a) ARI does not use control limits < 10

b) Control limits for analyzes with no separate preparation procedure are adjusted to reflect the minimum uncertainty in the calibration of the instrument allowed by the referenced analytical method.

(3) Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.



**Spike Recovery Control Limits for Polycyclic Aromatic Hydrocarbons
Selected Ion Monitoring (SIM) EPA Method SW-846-8270D-Modified
Low Level Aqueous Samples^(1,7)
Effective 5/1/09**

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. <http://www.arilabs.com/portal/downloads/ARI-CLs.zip>

Sample Volume / Final Volume	500 mL to 0.5 mL	
	Control Limits	ME Limits ⁽²⁾
LCS Spike Recovery ⁽⁶⁾		
Napthalene	41 - 101	31 - 111
2-Methylnapthalene	47 - 100	39 - 103
1-Methylnapthalene	30 - 160 ⁽³⁾	30 - 160 ⁽³⁾
Acenaphthylene	35 - 100	25 - 104
Acenaphthene	43 - 104	33 - 114
Dibenzofuran	37 - 100	27 - 108
Fluorene	51 - 103	42 - 112
Phenanthrene	55 - 109	46 - 118
Anthracene	30 - 101	18 - 113
Fluoranthene	49 - 123	37 - 135
Pyrene	48 - 120	36 - 132
Benz(a)anthracene	43 - 113	31 - 125
Chrysene	59 - 112	50 - 121
Benzofluoranthene(s) (Total)	30 - 160 ⁽⁸⁾	30 - 160 ⁽⁸⁾
Benzo(a)pyrene	10 - 100	10 - 109
Indeno(1,2,3-cd)pyrene	43 - 112	32 - 124
Dibenzo(a,h)anthracene	42 - 114	30 - 126
Benzo(g,h,i)perylene	31 - 118	17 - 133
MB / LCS Surrogate Recovery		
d10-2-Methylnaphthalene	42 - 100	(4)
d14-Dibenzo(a,h)anthracene	40 - 125	(4)
Sample Surrogate Recovery		
d10-2-Methylnaphthalene	31 - 109	(4)
d14-Dibenzo(a,h)anthracene	10 - 133	(4)

(1) ARI's Control limits calculated using all available spike recovery data from 1/1/08 through 12/1/08.

(2) **ME = A marginal exceedance** defined in the NELAC Standard ⁽⁵⁾ as beyond the LCS-CL but still within the ME limits. ME limits are between 3 and 4 standard deviations around the mean. A maximum of one marginal exceedance is acceptable. Two or more marginal exceedances require corrective action.

(3) 30 – 160 are default, advisory control limits used when there is insufficient data to calculate historic control limits. **DO NOT** use these limits as the sole reason to reject the data from a batch of analyses.

(4) Marginal Exceedances not allowed for surrogate standards.

(5) **2003 NELAC Standard (EPA/600/R-04/003), July 2003**, Chapter 5, pages 251-252.

(6) Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.

(7) Highlighted control limits (**bold font**) adjusted to demonstrate that ARI does not use control limits < 10 for the lower limit or < 100 for the upper limit.

(8) Default limits pending generation of historic limits for total benzofluoranthrenes (7/29/10)



Spike Recovery Control Limits for Chlorinated Phenols EPA Method SW-846-8041^(1,2)

Effective 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. <http://www.arilabs.com/portal/downloads/ARI-CLs.zip>

Sample Matrix:	ARI's Calculated Control Limits	
	Water	Soil / Sediment
Sample Amount / Final Volume:	500 / 50 mL	10 g / 25 mL
LCS Spike Recovery ⁽³⁾		
Pentachlorophenol	27 - 115	10 - 162
Method Blank/LCS Surrogate Recovery		
2,4,6-Tribromophenol	40 - 130	50 - 115
Sample Surrogate Recovery		
2,4,6-Tribromophenol	11 - 156	10 - 146

(1) ARI's Control limits calculated using all available spike recovery data from 1/1/08 through 12/1/08.

(2) Highlighted control limits (**bold font**) adjusted to demonstrate that ARI does not use control limits < 10.

(3) Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.



**Spike Recovery Control Limits Hydrocarbon Identification (NWTPH-HCID)
and Diesel Range Petroleum Hydrocarbons (NWTPH-D & AK-102) ⁽¹⁾**
Effective 10/4/10

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. <http://www.arilabs.com/portal/downloads/ARI-CLs.zip>

Method:	NWTPH-HCID ⁽²⁾	NWTPH-D		AK102 ⁽²⁾
Sample Matrix:	Water & Soil	Water ⁽³⁾	Soil ⁽⁴⁾	Water & Soil
Preparation:	500 to 1 mL	500 to 1 mL	10g to 1 mL	500 to 1 mL or 10g to 1 mL
LCS Spike Recovery ⁽⁵⁾				
Diesel	-	60 - 111	64 - 116	75 - 125
Diesel with Acid & Silica Clean-up	-	49 - 107	59 - 108	⁽⁶⁾
Diesel with Silica Clean-up		49 - 107	59 - 108	75 - 125
Method Blank/LCS Surrogate Recovery				
o-Terphenyl	-	56 - 130	64 - 134	60 - 120
o-Terphenyl with Acid & Silica Clean-up	-	53 - 123	59 - 134	⁽⁶⁾
o-Terphenyl Silica Clean-up		53 - 123	59 - 134	60 - 120
Sample Surrogate Recovery				
o-Terphenyl	50 - 150	52 - 134	52 - 130	50 - 150
o-Terphenyl with Acid & Silica Clean-up	-	49 - 118	43 - 137	⁽⁶⁾
o-Terphenyl with Silica Clean-up	-	49 - 118	43 - 137	50 - 150

1. Control Limits calculated using all data generated 1/1/10 through 9/1/10
2. Method specified, non-prescriptive limits. The NWTPH-HCID Method does not include LCS or MS analyses.
3. Separatory Funnel Extraction – EPA Method 3510C
4. Microwave Extraction – EPA Method 3546
5. Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.
6. Alaska State UST Methods do not allow acid cleanup of sample extracts.



**Spike Recovery Control Limits BTEX – EPA Method 8021 &
Gasoline – Methods NWTPH-G and AK101^(1,2)**

Effective 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. <http://www.arilabs.com/portal/downloads/ARI-CLs.zip>

Sample Matrix:	Aqueous Samples		Soil / Sediment Samples	
Analytical Method:	Method 8021B	NWTPH-G AK-101	Method 8021B	NWTPH-G AK-101
LCS Spike Recovery ⁽³⁾				
Benzene	73 - 120		72 - 120	
Toluene	73 - 120		72 - 120	
Ethyl benzene	69 - 120		71 - 120	
<i>m,p</i> -Xylenes	72 - 120		72 - 120	
<i>o</i> -Xlyene	73 - 120		72 - 120	
MTBE	30 - 182		40 - 163	
Gasoline		75 - 124		74 - 124
Method Blank/LCS Surrogate Recovery				
Trifluorotoluene (TFT)	79 - 120	80 - 120	80 - 120	80 - 120
Bromobenzene	79 - 120	80 - 120	77 - 120	80 - 120
Sample Surrogate Recovery				
Trifluorotoluene (TFT)	80 - 120	80 - 120	68 - 124	66 - 123
Bromobenzene	80 - 120	80 - 120	62 - 134	62 - 130

(1) Control Limits calculated using all data generated 1/1/08 through 12/31/08.

(2) Highlighted control limits (bold font) are adjusted from the calculated values as follows:

a) Highlighted control limits (**bold font**) adjusted to demonstrate that ARI does not use control limits < 10 for the lower limit or < 100 for the upper limit.

b) Control limits for analytes with no separate preparation procedure are adjusted to reflect the minimum uncertainty in the calibration of the instrument allowed by the referenced analytical method.

(3) Laboratory Control Sample (LCS) spike recovery control limits also used as advisory control limits for sample matrix spike (MS) analyzes. MS recovery values are advisory and not used to assess the acceptability of an analytical batch.



Summary of Laboratory Control Limits Metals Analyses (All Methods & Sample Matrices)

Effective 5/1/09

Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. <http://www.arilabs.com/portal/downloads/ARI-CLs.zip>

Element	Matrix Spike Recovery	LCS Recovery	Replicate RPD
Aluminum	75 - 125	80 - 120	≤ 20%
Antimony	75 - 125	80 - 120	≤ 20%
Arsenic	75 - 125	80 - 120	≤ 20%
Barium	75 - 125	80 - 120	≤ 20%
Beryllium	75 - 125	80 - 120	≤ 20%
Boron	75 - 125	80 - 120	≤ 20%
Cadmium	75 - 125	80 - 120	≤ 20%
Calcium	75 - 125	80 - 120	≤ 20%
Chromium	75 - 125	80 - 120	≤ 20%
Cobalt	75 - 125	80 - 120	≤ 20%
Copper	75 - 125	80 - 120	≤ 20%
Iron	75 - 125	80 - 120	≤ 20%
Lead	75 - 125	80 - 120	≤ 20%
Magnesium	75 - 125	80 - 120	≤ 20%
Manganese	75 - 125	80 - 120	≤ 20%
Mercury	75 - 125	80 - 120	≤ 20%
Nickel	75 - 125	80 - 120	≤ 20%
Potassium	75 - 125	80 - 120	≤ 20%
Selenium	75 - 125	80 - 120	≤ 20%
Silica	75 - 125	80 - 120	≤ 20%
Silver	75 - 125	80 - 120	≤ 20%
Sodium	75 - 125	80 - 120	≤ 20%
Strontium	75 - 125	80 - 120	≤ 20%
Thallium	75 - 125	80 - 120	≤ 20%
Vanadium	75 - 125	80 - 120	≤ 20%
Zinc	75 - 125	80 - 120	≤ 20%



Spike Recovery Control Limits for Conventional Wet Chemistry		
Effective 5/1/09		
Control limits are updated periodically. Assure that you have ARI's current control limits by downloading the files at the time of use. http://www.arilabs.com/portal/downloads/ARI-CLs.zip		
Sample Matrix:	ARI's Control Limits	
	Water	Soil / Sediment
Matrix Spike Recoveries	% Recovery	% Recovery
Ammonia	75 - 125	75 - 125
Bromide	75 - 125	75 - 125
Chloride	75 - 125	75 - 125
Cyanide	75 - 125	75 - 125
Ferrous Iron	75 - 125	75 - 125
Fluoride	75 - 125	75 - 125
Formaldehyde	75 - 125	75 - 125
Hexane Extractable Material	-- - --	78 - 114
Hexavalent Chromium	75 - 125	75 - 125
Nitrate/Nitrite	75 - 125	75 - 125
Oil and Grease	75 - 125	75 - 125
Phenol	75 - 125	75 - 125
Phosphorous	75 - 125	75 - 125
Sulfate	75 - 125	75 - 125
Sulfide	75 - 125	75 - 125
Total Kjeldahl Nitrogen	75 - 125	75 - 125
Total Organic Carbon	75 - 125	75 - 125
Duplicate RPDs		
Acidity	±20%	±20%
Alkalinity	±20%	±20%
BOD	±20%	±20%
Cation Exchange	±20%	±20%
COD	±20%	±20%
Conductivity	±20%	±20%
Salinity	±20%	±20%
Solids	±20%	±20%
Turbidity	±20%	±20%

**SIM Volatile Analysis
Report and Summary QC Forms**

ARI Job ID: ST98, SU21

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW02-042611

Page 1 of 1

SAMPLE

Lab Sample ID: ST98A

QC Report No: ST98-Floyd Snider

LIMS ID: 11-9409

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA T.4010

Data Release Authorized: *[Signature]*

Date Sampled: 04/26/11

Reported: 05/05/11

Date Received: 04/26/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/03/11 15:05

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	97.5%
d8-Toluene	98.5%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW03-042611

Page 1 of 1

SAMPLE

Lab Sample ID: ST98B

QC Report No: ST98-Floyd Snider

LIMS ID: 11-9410

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA T.4010

Data Release Authorized: *AS*

Date Sampled: 04/26/11

Reported: 05/05/11

Date Received: 04/26/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/03/11 15:31

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	100%
d8-Toluene	98.4%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW13-042611

Page 1 of 1

SAMPLE

Lab Sample ID: ST98C


QC Report No: ST98-Floyd Snider

LIMS ID: 11-9411

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA T.4010

Data Release Authorized: 

Date Sampled: 04/26/11

Reported: 05/05/11

Date Received: 04/26/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/03/11 15:57

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	0.025	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.7%
d8-Toluene	97.8%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW06-042611
 Page 1 of 1 **SAMPLE**

Lab Sample ID: ST98D

QC Report No: ST98-Floyd Snider

LIMS ID: 11-9412

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA T.4010

Data Release Authorized: *[Signature]*

Date Sampled: 04/26/11

Reported: 05/05/11

Date Received: 04/26/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/03/11 16:22

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%
d8-Toluene	101%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: TB-042611

Page 1 of 1

SAMPLE

Lab Sample ID: ST98E


QC Report No: ST98-Floyd Snider

LIMS ID: 11-9413

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA T.4010

Data Release Authorized: 

Date Sampled: 04/26/11

Reported: 05/05/11

Date Received: 04/26/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/03/11 13:48

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	96.0%
d8-Toluene	98.3%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW07-042711

Page 1 of 1

SAMPLE

Lab Sample ID: SU21A


QC Report No: SU21-Floyd Snider

LIMS ID: 11-9507

Project: Lora Lake Apartments RI

Matrix: Water

POS-LLA Task 4010

Data Release Authorized: 

Date Sampled: 04/27/11

Reported: 05/05/11

Date Received: 04/27/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/03/11 17:39

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	92.8%
d8-Toluene	99.0%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW11-042711
 Page 1 of 1 **SAMPLE**

Lab Sample ID: SU21B

QC Report No: SU21-Floyd Snider

LIMS ID: 11-9508

Project: Lora Lake Apartments RI

Matrix: Water

POS-LLA Task 4010

Data Release Authorized: *[Signature]*

Date Sampled: 04/27/11

Reported: 05/05/11

Date Received: 04/27/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/04/11 14:03

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	103%
d8-Toluene	98.4%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW10-042711

Page 1 of 1

SAMPLE

Lab Sample ID: SU21C


QC Report No: SU21-Floyd Snider

LIMS ID: 11-9509

Project: Lora Lake Apartments RI

Matrix: Water

POS-LLA Task 4010

Data Release Authorized: 

Date Sampled: 04/27/11

Reported: 05/05/11

Date Received: 04/27/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/03/11 18:31

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U


Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	97.8%
d8-Toluene	100%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW09-042711
 Page 1 of 1 **SAMPLE**

Lab Sample ID: SU21D
 LIMS ID: 11-9510
 Matrix: Water
 Data Release Authorized: 
 Reported: 05/05/11

QC Report No: SU21-Floyd Snider
 Project: Lora Lake Apartments RI
 POS-LLA Task 4010
 Date Sampled: 04/27/11
 Date Received: 04/27/11

Instrument/Analyst: NT7/PKC
 Date Analyzed: 05/03/11 18:56

Sample Amount: 10.0 mL
 Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	85.9%
d8-Toluene	95.6%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW08-042711
 Page 1 of 1 **SAMPLE**

Lab Sample ID: SU21E


QC Report No: SU21-Floyd Snider

LIMS ID: 11-9511

Project: Lora Lake Apartments RI

Matrix: Water

POS-LLA Task 4010

Data Release Authorized: 

Date Sampled: 04/27/11

Reported: 05/05/11

Date Received: 04/27/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/04/11 14:29

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	101%
d8-Toluene	98.9%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW12-042711
 Page 1 of 1 **SAMPLE**

Lab Sample ID: SU21F QC Report No: SU21-Floyd Snider
 LIMS ID: 11-9512 Project: Lora Lake Apartments RI
 Matrix: Water POS-LLA Task 4010
 Data Release Authorized: *[Signature]* Date Sampled: 04/27/11
 Reported: 05/05/11 Date Received: 04/27/11

Instrument/Analyst: NT7/PKC Sample Amount: 10.0 mL
 Date Analyzed: 05/03/11 19:47 Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	91.8%
d8-Toluene	95.2%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: TB-042711

Page 1 of 1

SAMPLE

Lab Sample ID: SU21G

QC Report No: SU21-Floyd Snider

LIMS ID: 11-9513

Project: Lora Lake Apartments RI

Matrix: Water

POS-LLA Task 4010

Data Release Authorized: *AS*

Date Sampled: 04/27/11

Reported: 05/05/11

Date Received: 04/27/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/03/11 14:14

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	102%
d8-Toluene	97.8%

SW8260-SIM SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: ST98-Floyd Snider
Project: Lora Lake Apts RI
POS-LLA T.4010

<u>Client ID</u>	<u>DCE</u>	<u>TOL</u>	<u>TOT OUT</u>
MB-050311	90.8%	95.2%	0
LCS-050311	86.0%	98.7%	0
LCSD-050311	86.6%	99.7%	0
MW02-042611	97.5%	98.5%	0
MW03-042611	100%	98.4%	0
MW13-042611	98.7%	97.8%	0
MW06-042611	106%	101%	0
MW06-042611-MS	84.7%	101%	0
MW06-042611-MSD	80.2%	99.1%	0
TB-042611	96.0%	98.3%	0

	LCS/MB LIMITS	QC LIMITS
(DCE) = d4-1,2-Dichloroethane	(78-126)	(80-129)
(TOL) = d8-Toluene	(80-120)	(80-120)

Prep Method: SW5030
Log Number Range: 11-9409 to 11-9413

SW8260-SIM SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SU21-Floyd Snider
Project: Lora Lake Apartments RI
POS-LLA Task 4010

<u>Client ID</u>	<u>DCE</u>	<u>TOL</u>	<u>TOT OUT</u>
MB-050311	90.8%	95.2%	0
LCS-050311	86.0%	98.7%	0
LCSD-050311	86.6%	99.7%	0
MW07-042711	92.8%	99.0%	0
MB-050411	104%	97.4%	0
LCS-050411	87.8%	99.6%	0
LCSD-050411	84.8%	98.4%	0
MW11-042711	103%	98.4%	0
MW10-042711	97.8%	100%	0
MW09-042711	85.9%	95.6%	0
MW08-042711	101%	98.9%	0
MW12-042711	91.8%	95.2%	0
TB-042711	102%	97.8%	0

LCS/MB LIMITS QC LIMITS

(DCE) = d4-1,2-Dichloroethane (78-126) (80-129)
(TOL) = d8-Toluene (80-120) (80-120)

Prep Method: SW5030
Log Number Range: 11-9507 to 11-9513

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW06-042611

Page 1 of 1

MATRIX SPIKE

Lab Sample ID: ST98D

QC Report No: ST98-Floyd Snider

LIMS ID: 11-9412

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA T.4010

Data Release Authorized: *[Signature]*

Date Sampled: 04/26/11

Reported: 05/05/11

Date Received: 04/26/11

Instrument/Analyst MS: NT7/PKC

Sample Amount MS: 10.0 mL

MSD: NT7/PKC

MSD: 10.0 mL

Date Analyzed MS: 05/03/11 16:48

Purge Volume MS: 10.0 mL

MSD: 05/03/11 17:14

MSD: 10.0 mL

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
1,2-Dichloroethane	< 0.020 U	0.919	1.00	91.9%	0.868	1.00	86.8%	5.7%
cis-1,2-Dichloroethene	< 0.020 U	0.839	1.00	83.9%	0.822	1.00	82.2%	2.0%
trans-1,2-Dichloroethene	< 0.020 U	0.884	1.00	88.4%	0.869	1.00	86.9%	1.7%
Trichloroethene	< 0.020 U	0.956	1.00	95.6%	0.933	1.00	93.3%	2.4%
Tetrachloroethene	< 0.020 U	0.989	1.00	98.9%	0.933	1.00	93.3%	5.8%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW06-042611
 Page 1 of 1 **MATRIX SPIKE**

Lab Sample ID: ST98D

QC Report No: ST98-Floyd Snider

LIMS ID: 11-9412

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA T.4010

Data Release Authorized: *[Signature]*

Date Sampled: 04/26/11

Reported: 05/05/11

Date Received: 04/26/11

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/03/11 16:48

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	---	
156-59-2	cis-1,2-Dichloroethene	0.020	---	
156-60-5	trans-1,2-Dichloroethene	0.020	---	
79-01-6	Trichloroethene	0.020	---	
127-18-4	Tetrachloroethene	0.020	---	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	84.7%
d8-Toluene	101%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MW06-042611
 Page 1 of 1 MATRIX SPIKE DUP

Lab Sample ID: ST98D QC Report No: ST98-Floyd Snider
 LIMS ID: 11-9412 Project: Lora Lake Apts RI
 Matrix: Water POS-LLA T.4010
 Data Release Authorized: *AS* Date Sampled: 04/26/11
 Reported: 05/05/11 Date Received: 04/26/11

Instrument/Analyst: NT7/PKC Sample Amount: 10.0 mL
 Date Analyzed: 05/03/11 17:14 Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	---	
156-59-2	cis-1,2-Dichloroethene	0.020	---	
156-60-5	trans-1,2-Dichloroethene	0.020	---	
79-01-6	Trichloroethene	0.020	---	
127-18-4	Tetrachloroethene	0.020	---	

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	80.2%
d8-Toluene	99.1%

4A
VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

MB0503

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU21

Project: LORA LAKE APARTMENTS RI

Lab File ID: MB0503A

Lab Sample ID: MB0503

Date Analyzed: 05/03/11

Time Analyzed: 1323

Instrument ID: NT7

Heated Purge: (Y/N) N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	LCS0503	LCS0503	LCS0503A	1206
02	LCS0503	LCS0503	LCS0503B	1232
03	TB-042611	ST98E	ST98E	1348
04	TB-042711	SU21G	SU21G	1414
05	TB-042811	SU53G	SU53G	1440
06	MW02-042611	ST98A	ST98A	1505
07	MW03-042611	ST98B	ST98B	1531
08	MW13-042611	ST98C	ST98C	1557
09	MW06-042611	ST98D	ST98D	1622
10	MW06-042611	ST98DMS	ST98DMS	1648
11	MW06-042611	ST98DMSD	ST98DMSD	1714
12	MW07-042711	SU21A	SU21A	1739
13	MW10-042711	SU21C	SU21C	1831
14	MW09-042711	SU21D	SU21D	1856
15	MW12-042711	SU21F	SU21F	1947
16	MW15042811	SU53B	SU53B	2039
17	MW4042811	SU53C	SU53C	2104
18	MW17042811	SU53D	SU53D	2130
19	MW14042811	SU53E	SU53E	2156
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MB-050311

Page 1 of 1

METHOD BLANK

Lab Sample ID: MB-050311

QC Report No: ST98-Floyd Snider

LIMS ID: 11-9409

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA T.4010

Data Release Authorized: *AS*

Date Sampled: NA

Reported: 05/05/11

Date Received: NA

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/03/11 13:23

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	90.8%
d8-Toluene	95.2%

4A
VOLATILE METHOD BLANK SUMMARY

Method Blank ID.

MB0504

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU21

Project: LORA LAKE APARTMENTS RI

Lab File ID: MB0504

Lab Sample ID: MB0504

Date Analyzed: 05/04/11

Time Analyzed: 1213

Instrument ID: NT7

Heated Purge: (Y/N) N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	LCS0504	LCS0504	LCS0504X	1121
02	LCS0504	LCS0504	LCS0504Y	1147
03	TB-042911	SU73C	SU73C	1312
04	MW11-042711	SU21B	SU21B2	1403
05	MW08-042711	SU21E	SU21E2	1429
06	MW5042811	SU53A	SU53A2	1455
07	MW16042811	SU53F	SU53F3	1609
08	MW-01-042911	SU73A	SU73A	1635
09	MW-01-042911	SU73B	SU73B	1701
10	B312-042911	SU74A	SU74A	1726
11	B310-042911	SU74B	SU74B	1752
12	B311-042911	SU74C	SU74C	1818
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: MB-050411

Page 1 of 1

METHOD BLANK

Lab Sample ID: MB-050411


QC Report No: SU21-Floyd Snider

LIMS ID: 11-9508

Project: Lora Lake Apartments RI

Matrix: Water

POS-LLA Task 4010

Data Release Authorized: 

Date Sampled: NA

Reported: 05/05/11

Date Received: NA

Instrument/Analyst: NT7/PKC

Sample Amount: 10.0 mL

Date Analyzed: 05/04/11 12:13

Purge Volume: 10.0 mL

CAS Number	Analyte	RL	Result	Q
107-06-2	1,2-Dichloroethane	0.020	< 0.020	U
156-59-2	cis-1,2-Dichloroethene	0.020	< 0.020	U
156-60-5	trans-1,2-Dichloroethene	0.020	< 0.020	U
79-01-6	Trichloroethene	0.020	< 0.020	U
127-18-4	Tetrachloroethene	0.020	< 0.020	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	104%
d8-Toluene	97.4%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: LCS-050311

Page 1 of 1

LAB CONTROL SAMPLE

Lab Sample ID: LCS-050311

QC Report No: ST98-Floyd Snider

LIMS ID: 11-9409

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA T.4010

Data Release Authorized: *AS*

Date Sampled: NA

Reported: 05/05/11

Date Received: NA

Instrument/Analyst LCS: NT7/PKC

Sample Amount LCS: 10.0 mL

LCS D: NT7/PKC

LCS D: 10.0 mL

Date Analyzed LCS: 05/03/11 12:06

Purge Volume LCS: 10.0 mL

LCS D: 05/03/11 12:32

LCS D: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCS D	Spike Added-LCS D	LCS D Recovery	RPD
1,2-Dichloroethane	0.948	1.00	94.8%	0.872	1.00	87.2%	8.4%
cis-1,2-Dichloroethene	0.838	1.00	83.8%	0.794	1.00	79.4%	5.4%
trans-1,2-Dichloroethene	0.908	1.00	90.8%	0.832	1.00	83.2%	8.7%
Trichloroethene	0.986	1.00	98.6%	0.896	1.00	89.6%	9.6%
Tetrachloroethene	0.850	1.00	85.0%	0.867	1.00	86.7%	2.0%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCS D
d4-1,2-Dichloroethane	86.0%	86.6%
d8-Toluene	98.7%	99.7%

ORGANICS ANALYSIS DATA SHEET

Volatiles by Purge & Trap GC/MS-Method SW8260C-SIM Sample ID: LCS-050411

Page 1 of 1

LAB CONTROL SAMPLE

Lab Sample ID: LCS-050411

QC Report No: SU21-Floyd Snider

LIMS ID: 11-9508

Project: Lora Lake Apartments RI

Matrix: Water

POS-LLA Task 4010

Data Release Authorized: *AB*

Date Sampled: NA

Reported: 05/05/11

Date Received: NA

Instrument/Analyst LCS: NT7/PKC

Sample Amount LCS: 10.0 mL

LCS: NT7/PKC

LCS: 10.0 mL

Date Analyzed LCS: 05/04/11 11:21

Purge Volume LCS: 10.0 mL

LCS: 05/04/11 11:47

LCS: 10.0 mL

Analyte	LCS	Spike		LCS	LCS	Spike		LCS	RPD
		Added-LCS	Recovery			Added-LCSD	Recovery		
1,2-Dichloroethane	1.17	1.00	117%	0.894	1.00	89.4%	26.7%		
cis-1,2-Dichloroethene	1.08	1.00	108%	0.827	1.00	82.7%	26.5%		
trans-1,2-Dichloroethene	1.15	1.00	115%	0.887	1.00	88.7%	25.8%		
Trichloroethene	1.18	1.00	118%	0.947	1.00	94.7%	21.9%		
Tetrachloroethene	1.16	1.00	116%	0.945	1.00	94.5%	20.4%		

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCS
d4-1,2-Dichloroethane	87.8%	84.8%
d8-Toluene	99.6%	98.4%

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD SNIDER

Lab Code: ARI Case No.: LORA LAKE APARTMENTS RI SDG No.: SU21

Lab File ID: 0426001 BFB Injection Date: 04/26/11

Instrument ID: NT7 BFB Injection Time: 0607

GC Column: RTXVMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.9
75	30.0 - 66.0% of mass 95	55.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.3 (0.4)1
174	50.0 - 101.0% of mass 95	63.8
175	4.0 - 9.0% of mass 174	4.7 (7.4)1
176	93.0 - 101.0% of mass 174	60.1 (94.2)1
177	5.0 - 9.0% of mass 176	4.3 (7.1)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	50	00500426	0426011	04/26/11	1130
02	100	01000426	0426012	04/26/11	1155
03	500	05000426	0426013	04/26/11	1221
04	1000	1000426	0426014	04/26/11	1247
05	2000	20000426	0426016	04/26/11	1337
06	4000	40000426	0426017	04/26/11	1403
07	ICV	ICV0426	0426018	04/26/11	1429
08	20	00200426	0426019	04/26/11	1500
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ANALYTICAL RESOURCES, INC Contract: FLOYD SNIDER

Lab Code: ARI Case No.: LORA LAKE APARTMENTS RI SDG No.: SU21

Lab File ID: BFB0504 BFB Injection Date: 05/04/11

Instrument ID: NT7 BFB Injection Time: 0918

GC Column: RTXVMS ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	26.2
75	30.0 - 66.0% of mass 95	53.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 101.0% of mass 95	62.6
175	4.0 - 9.0% of mass 174	5.0 (8.0)1
176	93.0 - 101.0% of mass 174	61.8 (98.7)1
177	5.0 - 9.0% of mass 176	3.6 (5.9)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CC0504	CC0504	CC0504B	05/04/11	1045
02	LCS0504	LCS0504	LCS0504X	05/04/11	1121
03	LCS0504	LCS0504	LCS0504Y	05/04/11	1147
04	MB0504	MB0504	MB0504	05/04/11	1213
05	TB-042911	SU73C	SU73C	05/04/11	1312
06	MW11-042711	SU21B	SU21B2	05/04/11	1403
07	MW08-042711	SU21E	SU21E2	05/04/11	1429
08	MW5042811	SU53A	SU53A2	05/04/11	1455
09	MW16042811	SU53F	SU53F3	05/04/11	1609
10	MW-01-042911	SU73A	SU73A	05/04/11	1635
11	MW-01-042911-D	SU73B	SU73B	05/04/11	1701
12	B3 12-042911	SU74A	SU74A	05/04/11	1726
13	B3 10-042911	SU74B	SU74B	05/04/11	1752
14	B3 11-042911	SU74C	SU74C	05/04/11	1818
15					
16					
17					
18					
19					
20					
21					
22					

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU21

Project: LORA LAKE APARTMENTS RI

Instrument ID: NT7

Calibration Date: 04/26/11

LAB FILE ID: RF20: 0426019

RF50: 0426011

RF100: 0426012

RF500: 0426013

RF1000: 0426014

COMPOUND	RF20	RF50	RF100	RF500	RF1000
Vinyl Chloride	1.072	1.110	1.234	1.281	1.136
1,1-Dichloroethene	0.842	0.928	1.000	1.047	0.878
cis-1,2-dichloroethene	0.750	0.995	1.083	1.158	0.998
Benzene	2.663	2.358	2.527	2.587	2.276
Trichloroethene	0.399	0.419	0.418	0.454	0.391
Tetrachloroethene	0.277	0.294	0.345	0.364	0.317
1,1,2,2-Tetrachloroethane	0.319	0.370	0.363	0.427	0.397
Trans-1,2-Dichloroethene	0.946	0.892	0.992	1.053	0.881
1,2-Dichloroethane	1.298	1.424	1.544	1.780	1.482
d4-1,2-Dichloroethane	0.874	0.934	0.949	0.942	0.893
d8-Toluene	1.238	1.284	1.259	1.277	1.285

FORM 6
VOLATILE INITIAL CALIBRATION DATA

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU21

Project: LORA LAKE APARTMENTS RI

Instrument ID: NT7

Calibration Date: 04/26/11

LAB FILE ID: RF2000: 0426016 RF4000: 0426017

COMPOUND	TYPE	RF	CURVE OR R ²	AVE	%RSD
Vinyl Chloride	0.973	0.897	AVRG	1.100	12.3
1,1-Dichloroethene	0.749	0.684	AVRG	0.876	14.8
cis-1,2-dichloroethene	0.859	0.805	AVRG	0.950	15.8
Benzene	1.919	1.696	AVRG	2.289	15.7
Trichloroethene	0.340	0.323	AVRG	0.392	11.8
Tetrachloroethene	0.272	0.249	AVRG	0.302	13.7
1,1,2,2-Tetrachloroethane	0.339	0.321	AVRG	0.362	11.0
Trans-1,2-Dichloroethene	0.750	0.714	AVRG	0.890	13.8
1,2-Dichloroethane	1.256	1.185	AVRG	1.424	14.2
d4-1,2-Dichloroethane	0.869	0.847	AVRG	0.901	4.5
d8-Toluene	1.280	1.295	AVRG	1.274	1.5

<- Indicates value outside QC limits:
(%RSD < 20% or R² > 0.990)

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU21

Project: LORA LAKE APARTMENTS RI

Instrument ID: NT7

Cont. Calib. Date: 05/03/11

Init. Calib. Date: 04/26/11

Cont. Calib. Time: 1129

COMPOUND	CalAmt or ARF	CC Amt 1000	MIN RRF	CURVE TYPE	%D or Drift
Vinyl Chloride	1.100	0.991	0.010	AVRG	-9.9
1,1-Dichloroethene	0.875	0.749	0.010	AVRG	-14.4
cis-1,2-dichloroethene	0.950	0.773	0.010	AVRG	-18.6
Benzene	2.289	1.976	0.010	AVRG	-13.7
Trichloroethene	0.392	0.359	0.010	AVRG	-8.4
Tetrachloroethene	0.302	0.255	0.010	AVRG	-15.6
1,1,2,2-Tetrachloroethane	0.362	0.340	0.300	AVRG	-6.1
Trans-1,2-Dichloroethene	0.890	0.771	0.010	AVRG	-13.4
1,2-Dichloroethane	1.424	1.259	0.010	AVRG	-11.6
d4-1,2-Dichloroethane	0.901	0.784	0.010	AVRG	-13.0
d8-Toluene	1.274	1.302	0.010	AVRG	2.2

<- Exceeds QC limit of 20% D

* RF less than minimum RF

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU21

Project: LORA LAKE APARTMENTS RI

Instrument ID: NT7

Cont. Calib. Date: 05/04/11

Init. Calib. Date: 04/26/11

Cont. Calib. Time: 1045

COMPOUND	CalAmt or ARF	CC Amt 1000	MIN RRF	CURVE TYPE	%D or Drift
=====	=====	=====	=====	=====	=====
Vinyl Chloride	1.100	1.132	0.010	AVRG	2.9
1,1-Dichloroethene	0.875	0.896	0.010	AVRG	2.4
cis-1,2-dichloroethene	0.950	0.904	0.010	AVRG	-4.8
Benzene	2.289	2.260	0.010	AVRG	-1.3
Trichloroethene	0.392	0.423	0.010	AVRG	7.9
Tetrachloroethene	0.302	0.313	0.010	AVRG	3.6
1,1,2,2-Tetrachloroethane	0.362	0.379	0.300	AVRG	4.7
Trans-1,2-Dichloroethene	0.890	0.917	0.010	AVRG	3.0
1,2-Dichloroethane	1.424	1.470	0.010	AVRG	3.2
=====	=====	=====	=====	=====	=====
d4-1,2-Dichloroethane	0.901	0.786	0.010	AVRG	-12.8
d8-Toluene	1.274	1.281	0.010	AVRG	0.5

<- Exceeds QC limit of 20% D

* RF less than minimum RF

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU21

Project: LORA LAKE APARTMENTS RI

Ical Midpoint ID: 0426013

Ical Date: 04/26/11

Instrument ID: NT7

Project Run Date: 04/26/11

	IS1 (PFB) AREA #	RT #	IS2 (DFB) AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	310955	5.32	577506	5.76		
UPPER LIMIT	621910	5.82	1155012	6.26		
LOWER LIMIT	155478	4.82	288753	5.26		
=====	=====	=====	=====	=====	=====	=====
Sample ID						
=====	=====	=====	=====	=====	=====	=====
01 ICV	428287	5.33	783828	5.75		
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene

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

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU21

Project: LORA LAKE APARTMENTS RI

Ical Midpoint ID: 0426013

Ical Date: 04/26/11

Instrument ID: NT7

Project Run Date: 05/03/11

	IS1 (PFB) AREA #	RT #	IS2 (DFB) AREA #	RT #	AREA #	RT #
ICAL MIDPT	310955	5.32	577506	5.76		
UPPER LIMIT	621910	5.82	1155012	6.26		
LOWER LIMIT	155478	4.82	288753	5.26		
Sample ID						
01 LCS0503	371235	5.32	691618	5.75		
02 LCS0503	368545	5.32	688280	5.76		
03 MB0503	374268	5.33	671582	5.75		
04 TB-042611	360193	5.33	635546	5.75		
05 TB-042711	342984	5.32	622310	5.76		
06 TB-042811	334355	5.33	617379	5.75		
07 MW02-042611	337272	5.33	605168	5.75		
08 MW03-042611	345206	5.32	603420	5.76		
09 MW13-042611	332326	5.33	598780	5.77		
10 MW06-042611	329307	5.33	596467	5.75		
11 MW06-042611	381200	5.32	696898	5.76		
12 MW06-042611	412190	5.33	751697	5.75		
13 MW07-042711	396604	5.32	753683	5.76		
14 MW10-042711	354061	5.33	661517	5.77		
15 MW09-042711	378093	5.32	644456	5.77		
16 MW12-042711	266113	5.33	458881	5.77		
17 MW15042811	320598	5.33	566633	5.77		
18 MW4042811	324280	5.33	565886	5.77		
19 MW17042811	291433	5.33	551688	5.77		
20 MW14042811	307760	5.33	551825	5.77		
21						
22						

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene

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

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU21

Project: LORA LAKE APARTMENTS RI

Ical Midpoint ID: 0426013

Ical Date: 04/26/11

Instrument ID: NT7

Project Run Date: 05/04/11

	IS1 (PFB) AREA #	RT #	IS2 (DFB) AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	310955	5.32	577506	5.76		
UPPER LIMIT	621910	5.82	1155012	6.26		
LOWER LIMIT	155478	4.82	288753	5.26		
=====	=====	=====	=====	=====	=====	=====
Sample ID						
=====	=====	=====	=====	=====	=====	=====
01 LCS0504	262777	5.32	496109	5.76		
02 LCS0504	332174	5.33	613837	5.75		
03 MB0504	288519	5.32	540873	5.76		
04 TB-042911	318932	5.32	579037	5.75		
05 MW11-042711	314236	5.33	566832	5.77		
06 MW08-042711	306214	5.32	555326	5.77		
07 MW5042811	284721	5.32	537725	5.77		
08 MW16042811	329558	5.32	559059	5.77		
09 MW-01-042911	327319	5.32	616507	5.77		
10 MW-01-042911	358815	5.32	671821	5.77		
11 B312-042911	376103	5.32	682816	5.77		
12 B310-042911	361270	5.32	654245	5.77		
13 B311-042911	341470	5.33	625591	5.77		
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (PFB) = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene

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

* Values outside of QC limits.

**SIM PAH Analysis
Report and Summary QC Forms**

ARI Job ID: ST98, SU21

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Sample ID: MW02-042611

Page 1 of 1

SAMPLE

Lab Sample ID: ST98A


QC Report No: ST98-Floyd Snider

LIMS ID: 11-9409

Project: Lora Lake Apts RI

Matrix: Water

Event: POS-LLA T.4010

Data Release Authorized: 

Date Sampled: 04/26/11

Reported: 05/16/11

Date Received: 04/26/11

Date Extracted: 05/02/11

Sample Amount: 500 mL

Date Analyzed: 05/14/11 19:39

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT11/YZ

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 68.3%
d14-Dibenzo(a,h)anthracene 81.7%

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Page 1 of 1


Sample ID: MW03-042611

SAMPLE

Lab Sample ID: ST98B

LIMS ID: 11-9410

Matrix: Water

Data Release Authorized: 

Reported: 05/16/11

QC Report No: ST98-Floyd Snider

Project: Lora Lake Apts RI

Event: POS-LLA T.4010

Date Sampled: 04/26/11

Date Received: 04/26/11

Date Extracted: 05/02/11

Date Analyzed: 05/14/11 20:03

Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 68.7%
d14-Dibenzo(a,h)anthracene 83.0%

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: MW13-042611

SAMPLE

Lab Sample ID: ST98C

LIMS ID: 11-9411

Matrix: Water

Data Release Authorized: *AB*

Reported: 05/16/11

QC Report No: ST98-Floyd Snider

Project: Lora Lake Apts RI

Event: POS-LLA T.4010

Date Sampled: 04/26/11

Date Received: 04/26/11

Date Extracted: 05/02/11

Date Analyzed: 05/14/11 20:28

Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 71.3%
d14-Dibenzo(a,h)anthracene 82.7%

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: MW06-042611

SAMPLE

Lab Sample ID: ST98D

LIMS ID: 11-9412

Matrix: Water

Data Release Authorized: *AB*

Reported: 05/16/11

QC Report No: ST98-Floyd Snider

Project: Lora Lake Apts RI

Event: POS-LLA T.4010

Date Sampled: 04/26/11

Date Received: 04/26/11

Date Extracted: 05/02/11

Date Analyzed: 05/14/11 20:52

Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 78.3%
d14-Dibenzo(a,h)anthracene 77.0%

ORGANICS ANALYSIS DATA SHEET

PNA's by Low Level SW8270D-SIM GC/MS

Sample ID: MW07-042711

Page 1 of 1

SAMPLE

Lab Sample ID: SU21A


QC Report No: SU21-Floyd Snider

LIMS ID: 11-9507

Project: Lora Lake Apartments RI

Matrix: Water

Event: POS-LLA Task 4010

Data Release Authorized: 

Date Sampled: 04/27/11

Reported: 05/16/11

Date Received: 04/27/11

Date Extracted: 05/02/11

Sample Amount: 500 mL

Date Analyzed: 05/14/11 22:04

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT11/YZ

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 65.3%
d14-Dibenzo(a,h)anthracene 85.7%

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Sample ID: MW11-042711

Page 1 of 1

SAMPLE

Lab Sample ID: SU21B


QC Report No: SU21-Floyd Snider

LIMS ID: 11-9508

Project: Lora Lake Apartments RI

Matrix: Water

Event: POS-LLA Task 4010

Data Release Authorized: 

Date Sampled: 04/27/11

Reported: 05/16/11

Date Received: 04/27/11

Date Extracted: 05/02/11

Sample Amount: 500 mL

Date Analyzed: 05/14/11 22:29

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT11/YZ

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d14-Dibenzo(a,h)anthracene 68.0%

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: MW10-042711

SAMPLE

Lab Sample ID: SU21C

LIMS ID: 11-9509

Matrix: Water

Data Release Authorized: *AB*

Reported: 05/16/11

QC Report No: SU21-Floyd Snider

Project: Lora Lake Apartments RI

Event: POS-LLA Task 4010

Date Sampled: 04/27/11

Date Received: 04/27/11

Date Extracted: 05/02/11

Date Analyzed: 05/16/11 10:43

Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 67.0%
d14-Dibenzo(a,h)anthracene 76.3%

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Sample ID: MW09-042711

Page 1 of 1

SAMPLE

Lab Sample ID: SU21D


QC Report No: SU21-Floyd Snider

LIMS ID: 11-9510

Project: Lora Lake Apartments RI

Matrix: Water

Event: POS-LLA Task 4010

Data Release Authorized: 

Date Sampled: 04/27/11

Reported: 05/16/11

Date Received: 04/27/11

Date Extracted: 05/02/11

Sample Amount: 500 mL

Date Analyzed: 05/16/11 11:07

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT11/YZ

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 68.7%
d14-Dibenzo(a,h)anthracene 84.0%

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Sample ID: MW08-042711

Page 1 of 1

SAMPLE

Lab Sample ID: SU21E

QC Report No: SU21-Floyd Snider

LIMS ID: 11-9511

Project: Lora Lake Apartments RI

Matrix: Water

Event: POS-LLA Task 4010

Data Release Authorized: *AB*

Date Sampled: 04/27/11

Reported: 05/16/11

Date Received: 04/27/11

Date Extracted: 05/02/11

Sample Amount: 500 mL

Date Analyzed: 05/16/11 11:31

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT11/YZ

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 68.0%
d14-Dibenzo(a,h)anthracene 82.3%

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: MW12-042711

SAMPLE

Lab Sample ID: SU21F

QC Report No: SU21-Floyd Snider

LIMS ID: 11-9512

Project: Lora Lake Apartments RI

Matrix: Water

Event: POS-LLA Task 4010

Data Release Authorized: *AS*

Date Sampled: 04/27/11

Reported: 05/16/11

Date Received: 04/27/11

Date Extracted: 05/02/11

Sample Amount: 500 mL

Date Analyzed: 05/16/11 11:56

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT11/YZ

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	< 0.010 U
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 69.3%
d14-Dibenzo(a,h)anthracene 84.3%

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: ST98-Floyd Snider
Project: Lora Lake Apts RI
POS-LLA T.4010

<u>Client ID</u>	<u>MNP</u>	<u>DBA</u>	<u>TOT OUT</u>
MW02-042611	68.3%	81.7%	0
MW03-042611	68.7%	83.0%	0
MW13-042611	71.3%	82.7%	0
MB-050211	64.3%	70.3%	0
LCS-050211	72.7%	77.3%	0
LCSD-050211	73.0%	74.7%	0
MW06-042611	78.3%	77.0%	0
MW06-042611 MS	97.7%	79.0%	0
MW06-042611 MSD	87.0%	77.0%	0

	<u>LCS/MB LIMITS</u>	<u>QC LIMITS</u>
(MNP) = d10-2-Methylnaphthalene	(42-100)	(31-109)
(DBA) = d14-Dibenzo(a,h)anthracene	(40-125)	(10-133)

Prep Method: SW3510C
Log Number Range: 11-9409 to 11-9412

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SU21-Floyd Snider
Project: Lora Lake Apartments RI
POS-LLA Task 4010

<u>Client ID</u>	<u>MNP</u>	<u>DBA</u>	<u>TOT OUT</u>
MB-050211	64.3%	70.3%	0
LCS-050211	72.7%	77.3%	0
LCSD-050211	73.0%	74.7%	0
MW07-042711	65.3%	85.7%	0
MW11-042711	NA	68.0%	0
MW10-042711	67.0%	76.3%	0
MW09-042711	68.7%	84.0%	0
MW08-042711	68.0%	82.3%	0
MW12-042711	69.3%	84.3%	0

LCS/MB LIMITS QC LIMITS

(MNP) = d10-2-Methylnaphthalene (42-100) (31-109)
(DBA) = d14-Dibenzo(a,h)anthracene (40-125) (10-133)

Prep Method: SW3510C
Log Number Range: 11-9507 to 11-9512

ORGANICS ANALYSIS DATA SHEET
PNA's by Low Level SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: MW06-042611
MATRIX SPIKE

Lab Sample ID: ST98D
 LIMS ID: 11-9412
 Matrix: Water
 Data Release Authorized: *[Signature]*
 Reported: 05/16/11

QC Report No: ST98-Floyd Snider
 Project: Lora Lake Apts RI
 Event: POS-LLA T.4010
 Date Sampled: 04/26/11
 Date Received: 04/26/11

Date Extracted MS/MSD: 05/02/11
 Date Analyzed MS: 05/14/11 21:16
 MSD: 05/14/11 21:40
 Instrument/Analyst MS: NT11/YZ
 MSD: NT11/YZ

Sample Amount MS: 500 mL
 MSD: 500 mL
 Final Extract Volume MS: 0.50 mL
 MSD: 0.50 mL
 Dilution Factor MS: 1.00
 MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Benzo(a)anthracene	< 0.0100 U	0.235	0.300	78.3%	0.219	0.300	73.0%	7.0%
Chrysene	< 0.0100 U	0.250	0.300	83.3%	0.229	0.300	76.3%	8.8%
Benzo(a)pyrene	< 0.0100 U	0.177	0.300	59.0%	0.149	0.300	49.7%	17.2%
Indeno(1,2,3-cd)pyrene	< 0.0100 U	0.233 B	0.300	77.7%	0.227 B	0.300	75.7%	2.6%
Dibenz(a,h)anthracene	< 0.0100 U	0.237	0.300	79.0%	0.228	0.300	76.0%	3.9%
Total Benzofluoranthenes	< 0.0100 U	0.487	0.600	81.2%	0.469	0.600	78.2%	3.8%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

PNAs by Low Level SW8270D-SIM GC/MS

Page 1 of 1


Sample ID: MW06-042611

MATRIX SPIKE

Lab Sample ID: ST98D

LIMS ID: 11-9412

Matrix: Water

Data Release Authorized: 

Reported: 05/16/11

QC Report No: ST98-Floyd Snider

Project: Lora Lake Apts RI

Event: POS-LLA T.4010

Date Sampled: 04/26/11

Date Received: 04/26/11

Date Extracted: 05/02/11

Date Analyzed: 05/14/11 21:16

Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL

Final Extract Volume: 0.5 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	---
218-01-9	Chrysene	0.010	---
50-32-8	Benzo(a)pyrene	0.010	---
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	---
53-70-3	Dibenz(a,h)anthracene	0.010	---
TOTBFA	Total Benzofluoranthenes	0.010	---


Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 97.7%
d14-Dibenzo(a,h)anthracene 79.0%

ORGANICS ANALYSIS DATA SHEET
PNA's by Low Level SW8270D-SIM GC/MS
 Page 1 of 1

Sample ID: MW06-042611
MATRIX SPIKE DUPLICATE

Lab Sample ID: ST98D
 LIMS ID: 11-9412
 Matrix: Water
 Data Release Authorized: 
 Reported: 05/16/11

QC Report No: ST98-Floyd Snider
 Project: Lora Lake Apts RI
 Event: POS-LLA T.4010
 Date Sampled: 04/26/11
 Date Received: 04/26/11

Date Extracted: 05/02/11
 Date Analyzed: 05/14/11 21:40
 Instrument/Analyst: NT11/YZ

Sample Amount: 500 mL
 Final Extract Volume: 0.5 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	---
218-01-9	Chrysene	0.010	---
50-32-8	Benzo(a)pyrene	0.010	---
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	---
53-70-3	Dibenz(a,h)anthracene	0.010	---
TOTBFA	Total Benzofluoranthenes	0.010	---

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	87.0%
d14-Dibenzo(a,h)anthracene	77.0%

ORGANICS ANALYSIS DATA SHEET

PNA's by Low Level SW8270D-SIM GC/MS

Page 1 of 1

Sample ID: LCS-050211

LAB CONTROL SAMPLE

Lab Sample ID: LCS-050211

LIMS ID: 11-9412

Matrix: Water

Data Release Authorized: *MS*

Reported: 05/16/11

QC Report No: ST98-Floyd Snider

Project: Lora Lake Apts RI

Event: POS-LLA T.4010

Date Sampled: NA

Date Received: NA

Date Extracted LCS/LCSD: 05/02/11

Sample Amount LCS: 500 mL

LCSD: 500 mL

Date Analyzed LCS: 05/14/11 15:36

Final Extract Volume LCS: 0.50 mL

LCSD: 05/14/11 16:01

LCSD: 0.50 mL

Instrument/Analyst LCS: NT11/YZ

Dilution Factor LCS: 1.00

LCSD: NT11/YZ

LCSD: 1.00

Analyte	Spike		LCS		Spike		LCSD	
	LCS	Added-LCS	Recovery	LCSD	Added-LCSD	Recovery	RPD	
Benzo(a)anthracene	0.235	0.300	78.3%	0.240	0.300	80.0%	2.1%	
Chrysene	0.241	0.300	80.3%	0.250	0.300	83.3%	3.7%	
Benzo(a)pyrene	0.156	0.300	52.0%	0.160	0.300	53.3%	2.5%	
Indeno(1,2,3-cd)pyrene	0.210 B	0.300	70.0%	0.213 B	0.300	71.0%	1.4%	
Dibenz(a,h)anthracene	0.218	0.300	72.7%	0.223	0.300	74.3%	2.3%	
Total Benzofluoranthenes	0.466	0.600	77.7%	0.466	0.600	77.7%	0.0%	

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	72.7%	73.0%
d14-Dibenzo(a,h)anthracene	77.3%	74.7%

4B
SEMIVOLATILE METHOD BLANK SUMMARY

BLANK NO.

SU14MBW1

Lab Name: ANALYTICAL RESOURCES, INC
 ARI Job No: SU21
 Lab File ID: SU14MB
 Instrument ID: NT11
 Matrix: LIQUID

Client: HART CROWSER
 Project: WA LIQUOR CONTROL BO
 Date Extracted: 05/02/11
 Date Analyzed: 05/14/11
 Time Analyzed: 1512

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	=====	=====	=====	=====
01	SU14LCSW1	SU14LCSW1	SU14SB	05/14/11
02	SU14LCSDW1	SU14LCSDW1	SU14SBD	05/14/11
03	MW02-042611	ST98A	ST98A	05/14/11
04	MW03-042611	ST98B	ST98B	05/14/11
05	MW13-042611	ST98C	ST98C	05/14/11
06	MW06-042611	ST98D	ST98D	05/14/11
07	MW06-042611 MS	ST98DMS	ST98DMS	05/14/11
08	MW06-042611 MSD	ST98DMSD	ST98DMSD	05/14/11
09	MW07-042711	SU21A	SU21A	05/14/11
10	MW11-042711	SU21B	SU21B	05/14/11
11	MW10-042711	SU21C	SU21C	05/16/11
12	MW09-042711	SU21D	SU21D	05/16/11
13	MW08-042711	SU21E	SU21E	05/16/11
14	MW12-042711	SU21F	SU21F	05/16/11
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

ORGANICS ANALYSIS DATA SHEET

PNA's by Low Level SW8270D-SIM GC/MS

Sample ID: MB-050211

Page 1 of 1

METHOD BLANK

Lab Sample ID: MB-050211

QC Report No: ST98-Floyd Snider

LIMS ID: 11-9412

Project: Lora Lake Apts RI

Matrix: Water

Event: POS-LLA T.4010

Data Release Authorized: *AS*

Date Sampled: NA

Reported: 05/16/11

Date Received: NA

Date Extracted: 05/02/11

Sample Amount: 500 mL

Date Analyzed: 05/14/11 15:12

Final Extract Volume: 0.5 mL

Instrument/Analyst: NT11/YZ

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.010	< 0.010 U
218-01-9	Chrysene	0.010	< 0.010 U
50-32-8	Benzo(a)pyrene	0.010	< 0.010 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	0.0076 J
53-70-3	Dibenz(a,h)anthracene	0.010	< 0.010 U
TOTBFA	Total Benzofluoranthenes	0.010	< 0.010 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene 64.3%
d14-Dibenzo(a,h)anthracene 70.3%

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

Instrument ID: NT11

Project: LORA LAKE APTS RI

DFTPP Injection Date: 04/30/11

DFTPP Injection Time: 0952

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	21.3
68	Less than 2.0% of mass 69	0.2 (0.4)1
69	Mass 69 relative abundance	57.2
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	10.0 - 80.0% of mass 198	55.0
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	8.9
275	10.0 - 60.0% of mass 198	28.1
365	Greater than 1.0% of mass 198	3.78
441	0.0 - 24.0% of mass 442	17.4 (18.3)2
442	50.0 - 200.0% of mass 198	95.1
443	15.0 - 24.0% of mass 442	22.2 (23.3)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SIM250	IC0430A	04/30/11	1012
02	SIM1000	IC0430B	04/30/11	1037
03	SIM10	IC0430C	04/30/11	1102
04	SIM500	IC0430D	04/30/11	1126
05	SIM50	IC0430E	04/30/11	1151
06	SIM100	IC0430F	04/30/11	1215
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

Instrument ID: NT11

Project: LORA LAKE APTS RI

DFTPP Injection Date: 05/14/11

DFTPP Injection Time: 1044

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	16.9
68	Less than 2.0% of mass 69	1.1 (1.9)1
69	Mass 69 relative abundance	54.8
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	10.0 - 80.0% of mass 198	51.6
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	8.8
275	10.0 - 60.0% of mass 198	27.1
365	Greater than 1.0% of mass 198	3.43
441	0.0 - 24.0% of mass 442	15.8 (17.4)2
442	50.0 - 200.0% of mass 198	90.5
443	15.0 - 24.0% of mass 442	20.5 (22.6)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		CC0514	05/14/11	1058
02	SU14MBW1	SU14MBW1	05/14/11	1512
03	SU14LCSW1	SU14LCSW1	05/14/11	1536
04	SU14LCSDW1	SU14LCSDW1	05/14/11	1601
05	MW02-042611	ST98A	05/14/11	1939
06	MW03-042611	ST98B	05/14/11	2003
07	MW13-042611	ST98C	05/14/11	2028
08	MW06-042611	ST98D	05/14/11	2052
09	MW06-042611 MS	ST98DMS	05/14/11	2116
10	MW06-042611 MSD	ST98DMSD	05/14/11	2140
11	MW07-042711	SU21A	05/14/11	2204
12	MW11-042711	SU21B	05/14/11	2229
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

Instrument ID: NT11

Project: LORA LAKE APTS RI

DFTPP Injection Date: 05/16/11

DFTPP Injection Time: 1004

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	17.4
68	Less than 2.0% of mass 69	0.9 (1.6)1
69	Mass 69 relative abundance	56.1
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	10.0 - 80.0% of mass 198	53.0
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	8.9
275	10.0 - 60.0% of mass 198	27.7
365	Greater than 1.0% of mass 198	3.52
441	0.0 - 24.0% of mass 442	16.0 (18.1)2
442	50.0 - 200.0% of mass 198	88.0
443	15.0 - 24.0% of mass 442	20.9 (23.8)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CC0514	CC0516	05/16/11	1019
02	MW10-042711	SU21C	05/16/11	1043
03	MW09-042711	SU21D	05/16/11	1107
04	MW08-042711	SU21E	05/16/11	1131
05	MW12-042711	SU21F	05/16/11	1156
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU21

Project: LORA LAKE APTS RI

Instrument ID: NT11

Cont. Calib. Date: 05/14/11

Init. Calib. Date: 04/30/11

Cont. Calib. Time: 1058

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
Naphthalene	0.959	0.962	0.700	AVRG	0.3
2-Methylnaphthalene	0.582	0.607	0.400	AVRG	4.3
Acenaphthylene	1.560	1.584	0.900	AVRG	1.5
Acenaphthene	0.983	1.013	0.900	AVRG	3.0
Dibenzofuran	1.447	1.506	0.800	AVRG	4.1
Fluorene	1.022	1.080	0.900	AVRG	5.7
Phenanthrene	1.005	0.989	0.700	AVRG	-1.6
Anthracene	0.952	0.948	0.700	AVRG	-0.4
Fluoranthene	0.988	1.026	0.600	AVRG	3.8
Pyrene	1.680	1.596	0.600	AVRG	-5.0
Benzo (a) anthracene	1.401	1.317	0.800	AVRG	-6.0
Chrysene	1.408	1.368	0.700	AVRG	-2.8
Benzo (a) pyrene	1.434	1.379	0.700	AVRG	-3.8
Indeno (1,2,3-cd) pyrene	1.732	1.723	0.500	AVRG	-0.5
Dibenzo (a,h) anthracene	1.349	1.347	0.400	AVRG	-0.1
Benzo (g,h,i) perylene	1.543	1.497	0.500	AVRG	-3.0
1-Methylnaphthalene	0.578	0.594	0.010	AVRG	2.8
Total Benzofluoranthenes	1.616	1.554	0.010	AVRG	-3.8
2-Methylnaphthalene-d10	0.581	0.595	0.010	AVRG	2.4
Dibenzo (a,h) anthracene-d14	1.253	1.267	0.010	AVRG	1.1

<- Exceeds QC limit of 20% D

* RF less than minimum RF

7B
SEMIVOLATILE 8270-D CONTINUING CALIBRATION CHECK

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No: SU21

Project: LORA LAKE APTS RI

Instrument ID: NT11

Cont. Calib. Date: 05/16/11

Init. Calib. Date: 04/30/11

Cont. Calib. Time: 1019

COMPOUND	CalAmt or ARF	CC Amt or RF	MIN RRF	CURVE TYPE	%D or Drift
=====	=====	=====	=====	=====	=====
Naphthalene	0.959	0.969	0.700	AVRG	1.0
2-Methylnaphthalene	0.582	0.604	0.400	AVRG	3.8
Acenaphthylene	1.560	1.628	0.900	AVRG	4.4
Acenaphthene	0.983	1.002	0.900	AVRG	1.9
Dibenzofuran	1.447	1.523	0.800	AVRG	5.2
Fluorene	1.022	1.079	0.900	AVRG	5.6
Phenanthrene	1.005	0.977	0.700	AVRG	-2.8
Anthracene	0.952	0.970	0.700	AVRG	1.9
Fluoranthene	0.988	1.052	0.600	AVRG	6.5
Pyrene	1.680	1.621	0.600	AVRG	-3.5
Benzo (a) anthracene	1.401	1.357	0.800	AVRG	-3.1
Chrysene	1.408	1.380	0.700	AVRG	-2.0
Benzo (a) pyrene	1.434	1.385	0.700	AVRG	-3.4
Indeno (1,2,3-cd) pyrene	1.732	1.707	0.500	AVRG	-1.4
Dibenzo (a,h) anthracene	1.349	1.346	0.400	AVRG	-0.2
Benzo (g,h,i) perylene	1.543	1.500	0.500	AVRG	-2.8
1-Methylnaphthalene	0.578	0.615	0.010	AVRG	6.4
Total Benzofluoranthenes	1.616	1.534	0.010	AVRG	-5.1
=====	=====	=====	=====	=====	=====
2-Methylnaphthalene-d10	0.581	0.604	0.010	AVRG	4.0
Dibenzo (a,h) anthracene-d14	1.253	1.228	0.010	AVRG	-2.0

<- Exceeds QC limit of 20% D
* RF less than minimum RF

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC
ARI Job No: SU21
Ical Midpoint ID: IC0430A
Instrument ID: NT11

Client: FLOYD SNIDER
Project: LORA LAKE APTS RI
Ical Date: 04/30/11
Cont. Cal Date: 05/14/11

	IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 (PHN) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	129326	6.27	70573	8.47	113741	10.30
UPPER LIMIT	258652		141146		227482	
LOWER LIMIT	64663		35286		56870	
=====	=====	=====	=====	=====	=====	=====
CCAL	127532	6.27	70913	8.47	116365	10.30
UPPER LIMIT		6.77		8.97		10.80
LOWER LIMIT		5.77		7.97		9.80
01 SUI4MBW1	128498	6.28	73978	8.47	126818	10.30
02 SUI4LCSW1	127737	6.27	75636	8.47	128287	10.30
03 SUI4LCSDW1	127743	6.27	75249	8.47	124194	10.30
04 MW02-042611	128597	6.27	75668	8.47	126618	10.30
05 MW03-042611	127867	6.27	75276	8.47	125494	10.30
06 MW13-042611	128845	6.27	76084	8.47	127327	10.30
07 MW06-042611	129473	6.27	80002	8.47	131612	10.30
08 MW06-042611	132444	6.27	79451	8.47	137087	10.30
09 MW06-042611	133180	6.27	81440	8.47	136318	10.30
10 MW07-042711	128789	6.27	73823	8.47	124916	10.30
11 MW11-042711	124783	6.27	73063	8.47	125305	10.30
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

IS1 = Naphthalene-d8
IS2 = Acenaphthene-d10
IS3 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC
ARI Job No: SU21
Ical Midpoint ID: IC0430A
Instrument ID: NT11

Client: FLOYD SNIDER
Project: LORA LAKE APTS RI
Ical Date: 04/30/11
Cont. Cal Date: 05/14/11

	IS4 (CRY)		IS5 (PRY)			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	70763	13.63	54896	15.61		
UPPER LIMIT	141526		109792			
LOWER LIMIT	35382		27448			
=====	=====	=====	=====	=====	=====	=====
CCAL	77875	13.63	62637	15.61		
UPPER LIMIT		14.13		16.11		
LOWER LIMIT		13.13		15.11		
01 SU14MBW1	84338	13.63	67721	15.61		
02 SU14LCSW1	85111	13.63	68647	15.61		
03 SU14LCSDW1	81150	13.63	67329	15.61		
04 MW02-042611	85285	13.63	68280	15.61		
05 MW03-042611	84793	13.63	67572	15.61		
06 MW13-042611	83781	13.63	67652	15.61		
07 MW06-042611	85574	13.63	68197	15.61		
08 MW06-042611	93589	13.63	72725	15.61		
09 MW06-042611	94653	13.63	71787	15.61		
10 MW07-042711	83651	13.63	65771	15.61		
11 MW11-042711	82424	13.63	66098	15.61		
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

IS4 = Chrysene-d12
IS5 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
 AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC
ARI Job No: SU21
Ical Midpoint ID: IC0430A
Instrument ID: NT11

Client: FLOYD SNIDER
Project: LORA LAKE APTS RI
Ical Date: 04/30/11
Cont. Cal Date: 05/16/11

	IS1 (NPT) AREA #	RT #	IS2 (ANT) AREA #	RT #	IS3 (PHN) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	129326	6.27	70573	8.47	113741	10.30
UPPER LIMIT	258652		141146		227482	
LOWER LIMIT	64663		35286		56870	
=====	=====	=====	=====	=====	=====	=====
CCAL	121727	6.27	69884	8.47	116143	10.30
UPPER LIMIT		6.77		8.97		10.80
LOWER LIMIT		5.77		7.97		9.80
01 MW10-042711	115895	6.27	66799	8.47	113038	10.30
02 MW09-042711	116896	6.27	68135	8.45	116708	10.30
03 MW08-042711	121086	6.27	70652	8.45	115647	10.30
04 MW12-042711	115933	6.27	68372	8.47	113477	10.30
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

IS1 = Naphthalene-d8
IS2 = Acenaphthene-d10
IS3 = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal

* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC
ARI Job No: SU21
Ical Midpoint ID: IC0430A
Instrument ID: NT11

Client: FLOYD SNIDER
Project: LORA LAKE APTS RI
Ical Date: 04/30/11
Cont. Cal Date: 05/16/11

	IS4 (CRY)		IS5 (PRY)			
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
ICAL MIDPT	70763	13.63	54896	15.61		
UPPER LIMIT	141526		109792			
LOWER LIMIT	35382		27448			
=====	=====	=====	=====	=====	=====	=====
CCAL	77816	13.63	64337	15.61		
UPPER LIMIT		14.13		16.11		
LOWER LIMIT		13.13		15.11		
01 MW10-042711	72524	13.63	60672	15.61		
02 MW09-042711	75275	13.63	62256	15.61		
03 MW08-042711	75741	13.63	63723	15.61		
04 MW12-042711	74607	13.63	61690	15.61		
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

IS4 = Chrysene-d12
IS5 = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area from Ical midpoint
AREA LOWER LIMIT = - 50% of internal standard area from Ical midpoint
RT UPPER LIMIT = + 0.50 minutes of internal standard RT from Cont. Cal
RT LOWER LIMIT = - 0.50 minutes of internal standard RT from Cont. Cal


* Values outside of QC limits.

PCP/Chlorophenols Analysis
Report and Summary QC Forms

ARI Job ID: ST98, SU21

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: MW02-042611
SAMPLE

Lab Sample ID: ST98A
 LIMS ID: 11-9409
 Matrix: Water
 Data Release Authorized: 
 Reported: 05/13/11

QC Report No: ST98-Floyd Snider
 Project: Lora Lake Apts RI
 POS-LLA T.4010
 Date Sampled: 04/26/11
 Date Received: 04/26/11

Date Extracted: 05/02/11
 Date Analyzed: 05/12/11 21:06
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U
Reported in µg/L (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	72.0%	

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: MW03-042611
SAMPLE

Lab Sample ID: ST98B
 LIMS ID: 11-9410
 Matrix: Water
 Data Release Authorized: *[Signature]*
 Reported: 05/13/11

QC Report No: ST98-Floyd Snider
 Project: Lora Lake Apts RI
 POS-LLA T.4010
 Date Sampled: 04/26/11
 Date Received: 04/26/11

Date Extracted: 05/02/11
 Date Analyzed: 05/12/11 21:42
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U
Reported in µg/L (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	74.0%	

ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1


Sample ID: MW13-042611

SAMPLE

Lab Sample ID: ST98C

LIMS ID: 11-9411

Matrix: Water

Data Release Authorized: 

Reported: 05/13/11

QC Report No: ST98-Floyd Snider

Project: Lora Lake Apts RI

POS-LLA T.4010

Date Sampled: 04/26/11

Date Received: 04/26/11

Date Extracted: 05/02/11

Date Analyzed: 05/12/11 22:18

Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL

Final Extract Volume: 50 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	73.6%
----------------------	-------

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: MW06-042611
SAMPLE

Lab Sample ID: ST98D
 LIMS ID: 11-9412
 Matrix: Water
 Data Release Authorized: *AS*
 Reported: 05/13/11

QC Report No: ST98-Floyd Snider
 Project: Lora Lake Apts RI
 POS-LLA T.4010
 Date Sampled: 04/26/11
 Date Received: 04/26/11

Date Extracted: 05/02/11
 Date Analyzed: 05/12/11 22:55
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U
Reported in µg/L (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	66.0%	

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: MW07-042711
SAMPLE

Lab Sample ID: SU21A
 LIMS ID: 11-9507
 Matrix: Water
 Data Release Authorized: *AS*
 Reported: 05/13/11

QC Report No: SU21-Floyd Snider
 Project: Lora Lake Apartments RI
 POS-LLA Task 4010
 Date Sampled: 04/27/11
 Date Received: 04/27/11


Date Extracted: 05/02/11
 Date Analyzed: 05/13/11 01:55
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U
Reported in µg/L (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	73.6%	

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: MW11-042711
SAMPLE

Lab Sample ID: SU21B
 LIMS ID: 11-9508
 Matrix: Water
 Data Release Authorized: 
 Reported: 05/13/11

QC Report No: SU21-Floyd Snider
 Project: Lora Lake Apartments RI
 POS-LLA Task 4010
 Date Sampled: 04/27/11
 Date Received: 04/27/11

Date Extracted: 05/02/11
 Date Analyzed: 05/13/11 02:32
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U
Reported in µg/L (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	66.4%	

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: MW10-042711
SAMPLE

Lab Sample ID: SU21C
 LIMS ID: 11-9509
 Matrix: Water
 Data Release Authorized: *B*
 Reported: 05/13/11

QC Report No: SU21-Floyd Snider
 Project: Lora Lake Apartments RI
 POS-LLA Task 4010
 Date Sampled: 04/27/11
 Date Received: 04/27/11

Date Extracted: 05/02/11
 Date Analyzed: 05/13/11 03:08
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U
Reported in µg/L (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	72.4%	

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: MW09-042711
SAMPLE

Lab Sample ID: SU21D
 LIMS ID: 11-9510
 Matrix: Water
 Data Release Authorized: *AS*
 Reported: 05/13/11

QC Report No: SU21-Floyd Snider
 Project: Lora Lake Apartments RI
 POS-LLA Task 4010
 Date Sampled: 04/27/11
 Date Received: 04/27/11

Date Extracted: 05/02/11
 Date Analyzed: 05/13/11 03:44
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	0.31

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	67.6%
----------------------	-------

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: MW08-042711
SAMPLE

Lab Sample ID: SU21E
 LIMS ID: 11-9511
 Matrix: Water
 Data Release Authorized: *AS*
 Reported: 05/13/11

QC Report No: SU21-Floyd Snider
 Project: Lora Lake Apartments RI
 POS-LLA Task 4010
 Date Sampled: 04/27/11
 Date Received: 04/27/11

Date Extracted: 05/02/11
 Date Analyzed: 05/13/11 04:20
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U
Reported in µg/L (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	69.2%	

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: MW12-042711
SAMPLE

Lab Sample ID: SU21F
 LIMS ID: 11-9512
 Matrix: Water
 Data Release Authorized: *AS*
 Reported: 05/13/11

QC Report No: SU21-Floyd Snider
 Project: Lora Lake Apartments RI
 POS-LLA Task 4010
 Date Sampled: 04/27/11
 Date Received: 04/27/11

Date Extracted: 05/02/11
 Date Analyzed: 05/13/11 04:56
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U
Reported in µg/L (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	69.6%	

SW8041 CHLOROPHENOLICS SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: ST98-Floyd Snider
Project: Lora Lake Apts RI
POS-LLA T.4010

<u>Client ID</u>	<u>TBP</u>	<u>TOT OUT</u>
MW02-042611	72.0%	0
MW03-042611	74.0%	0
MW13-042611	73.6%	0
MB-050211	73.2%	0
LCS-050211	70.6%	0
MW06-042611	66.0%	0
MW06-042611 MS	58.8%	0
MW06-042611 MSD	57.8%	0

LCS/MB LIMITS QC LIMITS

(TBP) = 2,4,6-Tribromophenol

(40-130)

(11-156)

Prep Method: SW3510C
Log Number Range: 11-9409 to 11-9412

SW8041 CHLOROPHENOLICS SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SU21-Floyd Snider
Project: Lora Lake Apartments RI
POS-LLA Task 4010

<u>Client ID</u>	<u>TBP</u>	<u>TOT OUT</u>
MB-050211	73.2%	0
LCS-050211	70.6%	0
MW07-042711	73.6%	0
MW11-042711	66.4%	0
MW10-042711	72.4%	0
MW09-042711	67.6%	0
MW08-042711	69.2%	0
MW12-042711	69.6%	0

	LCS/MB LIMITS	QC LIMITS
(TBP) = 2,4,6-Tribromophenol	(40-130)	(11-156)

Prep Method: SW3510C
Log Number Range: 11-9507 to 11-9512

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: MW06-042611
MS/MSD

Lab Sample ID: ST98D
 LIMS ID: 11-9412
 Matrix: Water
 Data Release Authorized: *[Signature]*
 Reported: 05/13/11

QC Report No: ST98-Floyd Snider
 Project: Lora Lake Apts RI
 POS-LLA T.4010
 Date Sampled: 04/26/11
 Date Received: 04/26/11

Date Extracted MS/MSD: 05/02/11
 Date Analyzed MS: 05/12/11 23:31
 MSD: 05/13/11 00:07
 Instrument/Analyst MS: ECD1/AAR
 MSD: ECD1/AAR

Sample Amount MS: 500 mL
 MSD: 500 mL
 Final Extract Volume MS: 50 mL
 MSD: 50 mL
 Dilution Factor MS: 1.00
 MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Pentachlorophenol	< 0.25 U	1.72	2.50	68.8%	1.74	2.50	69.6%	1.2%

Results reported in µg/L
 RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: MW06-042611
MATRIX SPIKE

Lab Sample ID: ST98D
 LIMS ID: 11-9412
 Matrix: Water
 Data Release Authorized: *B*
 Reported: 05/13/11

QC Report No: ST98-Floyd Snider
 Project: Lora Lake Apts RI
 POS-LLA T.4010
 Date Sampled: 04/26/11
 Date Received: 04/26/11

Date Extracted: 05/02/11
 Date Analyzed: 05/12/11 23:31
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	---
Reported in µg/L (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	58.8%	

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: MW06-042611
MATRIX SPIKE DUP

Lab Sample ID: ST98D
 LIMS ID: 11-9412
 Matrix: Water
 Data Release Authorized: *JS*
 Reported: 05/13/11

QC Report No: ST98-Floyd Snider
 Project: Lora Lake Apts RI
 POS-LLA T.4010
 Date Sampled: 04/26/11
 Date Received: 04/26/11

Date Extracted: 05/02/11
 Date Analyzed: 05/13/11 00:07
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	---
Reported in µg/L (ppb)			
Chlorophenol Surrogate Recovery			
	2,4,6-Tribromophenol	57.8%	

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
 Page 1 of 1

Sample ID: LCS-050211
LAB CONTROL

Lab Sample ID: LCS-050211
 LIMS ID: 11-9412
 Matrix: Water
 Data Release Authorized: *[Signature]*
 Reported: 05/13/11

QC Report No: ST98-Floyd Snider
 Project: Lora Lake Apts RI
 POS-LLA T.4010
 Date Sampled: 04/26/11
 Date Received: 04/26/11

Date Extracted: 05/02/11
 Date Analyzed: 05/12/11 18:04
 Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL
 Final Extract Volume: 50 mL
 Dilution Factor: 1.00

Analyte	Lab Control	Spike Added	Recovery
Pentachlorophenol	2.01	2.50	80.4%

Chlorophenols Surrogate Recovery

2,4,6-Tribromophenol 70.6%

Results reported in µg/L

4
CHLOROPHENOL METHOD BLANK SUMMARY

SAMPLE NO.

ST99MBW1

Lab Name: ANALYTICAL RESOURCES, INC	Client: FLOYD SNIDER
ARI Job No.: ST98	Project: LORA LAKE APTS RI
Lab Sample ID: ST99MBW1	Lab File ID: 0512A006
Matrix (soil/water) LIQUID	Extraction: (SepF/Cont/Sonc) SW3510C
Sulfur Cleanup (Y/N) Y	Date Extracted: 05/02/11
Date Analyzed (1): 05/12/11	Date Analyzed (2): 05/12/11
Time Analyzed (1): 1728	Time Analyzed (2): 1728
Instrument ID (1): ECD1	Instrument ID (2): ECD1
GC Column (1): STX CLP1 ID: 0.53 (mm)	GC Column (2): STX CLP2 ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2

01	ST99LCSW1	ST99LCSW1	05/12/11	05/12/11
02	BLAIR 4/26/1	ST99A	05/12/11	05/12/11
03	MW02-042611	ST98A	05/12/11	05/12/11
04	MW03-042611	ST98B	05/12/11	05/12/11
05	MW13-042611	ST98C	05/12/11	05/12/11
06	MW06-042611	ST98D	05/12/11	05/12/11
07	MW06-042611	ST98DMS	05/12/11	05/12/11
08	MW06-042611	ST98DMSD	05/13/11	05/13/11
09	MW07-042711	SU21A	05/13/11	05/13/11
10	MW11-042711	SU21B	05/13/11	05/13/11
11	MW10-042711	SU21C	05/13/11	05/13/11
12	MW09-042711	SU21D	05/13/11	05/13/11
13	MW08-042711	SU21E	05/13/11	05/13/11
14	MW12-042711	SU21F	05/13/11	05/13/11

ORGANICS ANALYSIS DATA SHEET

PCP by GC/ECD Method SW8041

Page 1 of 1


Sample ID: MB-050211

METHOD BLANK

Lab Sample ID: MB-050211

LIMS ID: 11-9412

Matrix: Water

Data Release Authorized: 

Reported: 05/13/11

QC Report No: ST98-Floyd Snider

Project: Lora Lake Apts RI

POS-LLA T.4010

Date Sampled: NA

Date Received: NA

Date Extracted: 05/02/11

Date Analyzed: 05/12/11 17:28

Instrument/Analyst: ECD1/AAR

Sample Amount: 500 mL

Final Extract Volume: 50 mL

Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	73.2%
----------------------	-------

6D
 CHLOROPHENOL INITIAL CALIBRATION
 RETENTION TIME WINDOWS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: ST98

Project: LORA LAKE APTS RI

GC Column: STX CLP1 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 05/04/11

COMPOUND	RT OF STANDARDS						MEAN RT	RT WINDOW	
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6		FROM	TO
Pentachlorophenol	21.00	21.00	21.00	21.00	21.00	21.00	21.00	20.93	21.07
2,4,6-Trichloropheno	13.10	13.10	13.10	13.10	13.10	13.10	13.10	13.03	13.17
2,3,6-Trichloropheno	14.10	14.10	14.10	14.10	14.10	14.10	14.10	14.03	14.17
2,4,5-Trichloropheno	15.85	15.85	15.85	15.84	15.85	15.85	15.84	15.78	15.91
2,3,4-Trichloropheno	17.36	17.35	17.35	17.35	17.35	17.35	17.35	17.28	17.42
2,3,5,6-Tetrachlorop	17.16	17.15	17.15	17.15	17.15	17.15	17.15	17.08	17.22
2,3,4,5-Tetrachlorop	20.16	20.16	20.16	20.15	20.15	20.16	20.16	20.08	20.22
2,4-Dichlorophenol	12.56	12.56	12.56	12.56	12.56	12.56	12.56	12.48	12.62
2,4,6-Tribromophenol	18.60	18.60	18.60	18.60	18.60	18.60	18.60	18.53	18.67

6D
 CHLOROPHENOL INITIAL CALIBRATION
 RETENTION TIME WINDOWS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: ST98

Project: LORA LAKE APTS RI

GC Column: STX CLP2 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 05/04/11

COMPOUND	RT OF STANDARDS						MEAN RT	RT WINDOW	
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6		FROM	TO
Pentachlorophenol	22.97	22.97	22.97	22.97	22.97	22.97	22.97	22.90	23.04
2,4,6-Trichloropheno	14.31	14.31	14.31	14.31	14.31	14.31	14.31	14.24	14.38
2,3,6-Trichloropheno	15.56	15.56	15.56	15.56	15.56	15.56	15.56	15.49	15.63
2,4,5-Trichloropheno	17.48	17.47	17.47	17.47	17.47	17.47	17.47	17.40	17.54
2,3,4-Trichloropheno	19.03	19.02	19.02	19.02	19.02	19.02	19.02	18.95	19.09
2,3,5,6-Tetrachlorop	18.82	18.81	18.81	18.81	18.81	18.81	18.81	18.74	18.88
2,3,4,5-Tetrachlorop	22.08	22.08	22.08	22.08	22.08	22.08	22.08	22.01	22.15
2,4-Dichlorophenol	13.82	13.82	13.82	13.82	13.82	13.82	13.82	13.75	13.89
2,4,6-Tribromophenol	20.94	20.94	20.94	20.94	20.94	20.94	20.94	20.87	21.01

6E
 CHLOROPHENOL INITIAL CALIBRATION
 CALIBRATION FACTORS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: ST98

Project: LORA LAKE APTS RI

GC Column: STX CLP1 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 05/04/11

COMPOUND	CALIBRATION FACTORS						R ² / %RSD	CT
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6		
Pentachlorophenol	24557	22356	20781	19124	17785	16292	15.1	A
2,4,6-Trichlorophenol	15281	13835	12795	11181	10412	9532	17.9	A
2,3,6-Trichlorophenol	14259	12818	11863	10765	9925	9085	16.7	A
2,4,5-Trichlorophenol	12140	8082	7421	6534	5905	5130	0.9996	Q
2,3,4-Trichlorophenol	10565	9519	8778	7811	7138	6322	18.8	A
2,3,5,6-Tetrachloroph	20194	18565	17499	16125	15182	13876	13.7	A
2,3,4,5-Tetrachloroph	16824	14772	13475	11938	10977	9904	19.7	A
2,4-Dichlorophenol	1040	896	796	655	559	482	0.9992	Q
2,4,6-Tribromophenol	18340	16896	15885	15230	14566	13549	10.8	A
AVE RSD							19.4	

CT stands for Curve Types:

- A Indicates an Average Response Factor Curve
- L Indicates a Linear Curve
- Q Indicates a Quadratic Curve

CALIBRATION FILES

LVL 1: /chem2/ecd1.i/PCP20110504.b/ical-1.b/0504A010.d
 LVL 2: /chem2/ecd1.i/PCP20110504.b/ical-1.b/0504A011.d
 LVL 3: /chem2/ecd1.i/PCP20110504.b/ical-1.b/0504A012.d
 LVL 4: /chem2/ecd1.i/PCP20110504.b/ical-1.b/0504A009.d
 LVL 5: /chem2/ecd1.i/PCP20110504.b/ical-1.b/0504A013.d
 LVL 6: /chem2/ecd1.i/PCP20110504.b/ical-1.b/0504A014.d

6E
 CHLOROPHENOL INITIAL CALIBRATION
 CALIBRATION FACTORS

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: ST98

Project: LORA LAKE APTS RI

GC Column: STX CLP2 ID: 0.53 (mm)

Instrument ID: ECD1

Calibration Date: 05/04/11

COMPOUND	CALIBRATION FACTORS						R ² / %RSD	CT
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6		
Pentachlorophenol	35686	31408	28958	26156	24465	22293	17.4	A
2,4,6-Trichlorophenol	18173	16199	15364	13872	12302	11052	18.0	A
2,3,6-Trichlorophenol	17538	16304	15194	13812	12444	10948	17.1	A
2,4,5-Trichlorophenol	10375	9203	8375	7827	6888	5906	19.8	A
2,3,4-Trichlorophenol	13793	11382	10368	9080	8182	7194	0.9997	Q
2,3,5,6-Tetrachloroph	28198	24060	22545	20410	19063	17352	17.7	A
2,3,4,5-Tetrachloroph	21700	18848	16677	15352	13827	12342	0.9998	Q
2,4-Dichlorophenol	1124	962	835	702	594	505	0.9994	Q
2,4,6-Tribromophenol	26776	22121	21311	19850	18746	17341	15.7	A
AVE RSD							20.0	

CT stands for Curve Types:

- A Indicates an Average Response Factor Curve
- L Indicates a Linear Curve
- Q Indicates a Quadratic Curve

CALIBRATION FILES

LVL 1: /chem2/ecd1.i/PCP20110504.b/ical-2.b/0504A010.d
 LVL 2: /chem2/ecd1.i/PCP20110504.b/ical-2.b/0504A011.d
 LVL 3: /chem2/ecd1.i/PCP20110504.b/ical-2.b/0504A012.d
 LVL 4: /chem2/ecd1.i/PCP20110504.b/ical-2.b/0504A009.d
 LVL 5: /chem2/ecd1.i/PCP20110504.b/ical-2.b/0504A013.d
 LVL 6: /chem2/ecd1.i/PCP20110504.b/ical-2.b/0504A014.d

7E
CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: ST98

Project: LORA LAKE APTS RI

GC Column: STX CLP1 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/12/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :1652

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	21.00	20.93	21.07	24.2	25.0	-3.2
2,4,6-Trichlorophenol	13.10	13.03	13.17	24.5	25.0	-2.0
2,3,6-Trichlorophenol	14.10	14.03	14.17	24.5	25.0	-2.0
2,4,5-Trichlorophenol	15.85	15.78	15.91	26.5	25.0	6.0
2,3,4-Trichlorophenol	17.35	17.28	17.42	24.3	25.0	-2.8
2,3,5,6-Tetrachlorophenol	17.16	17.08	17.22	24.8	25.0	-0.8
2,3,4,5-Tetrachlorophenol	20.16	20.08	20.22	23.7	25.0	-5.2
2,4-Dichlorophenol	12.56	12.48	12.62	280	250	12.0
2,4,6-Tribromophenol (surr)	18.60	18.53	18.67	25.0	25.0	0.0

AVERAGE %D = 3.8

7E
CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: ST98

Project: LORA LAKE APTS RI

GC Column: STX CLP2 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/12/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :1652

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	22.97	22.90	23.04	22.3	25.0	-10.8
2,4,6-Trichlorophenol	14.31	14.24	14.38	23.8	25.0	-4.8
2,3,6-Trichlorophenol	15.56	15.49	15.63	23.2	25.0	-7.2
2,4,5-Trichlorophenol	17.48	17.40	17.54	23.3	25.0	-6.8
2,3,4-Trichlorophenol	19.03	18.95	19.09	25.1	25.0	0.4
2,3,5,6-Tetrachlorophenol	18.82	18.74	18.88	23.6	25.0	-5.6
2,3,4,5-Tetrachlorophenol	22.08	22.01	22.15	23.8	25.0	-4.8
2,4-Dichlorophenol	13.82	13.75	13.89	250	250	0.0
2,4,6-Tribromophenol (surr	20.94	20.87	21.01	23.8	25.0	-4.8

AVERAGE %D = 5.0

7E
CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: ST98

Project: LORA LAKE APTS RI

GC Column: STX CLP1 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/12/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :2029

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	21.00	20.93	21.07	24.3	25.0	-2.8
2,4,6-Trichlorophenol	13.10	13.03	13.17	24.2	25.0	-3.2
2,3,6-Trichlorophenol	14.10	14.03	14.17	24.2	25.0	-3.2
2,4,5-Trichlorophenol	15.85	15.78	15.91	25.9	25.0	3.6
2,3,4-Trichlorophenol	17.35	17.28	17.42	24.0	25.0	-4.0
2,3,5,6-Tetrachlorophenol	17.16	17.08	17.22	24.5	25.0	-2.0
2,3,4,5-Tetrachlorophenol	20.16	20.08	20.22	23.4	25.0	-6.4
2,4-Dichlorophenol	12.56	12.48	12.62	277	250	10.8
2,4,6-Tribromophenol (surr	18.60	18.53	18.67	24.7	25.0	-1.2

AVERAGE %D = 4.1

7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: ST98

Project: LORA LAKE APTS RI

GC Column: STX CLP2 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/12/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :2029

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	22.97	22.90	23.04	24.0	25.0	-4.0
2,4,6-Trichlorophenol	14.31	14.24	14.38	23.6	25.0	-5.6
2,3,6-Trichlorophenol	15.56	15.49	15.63	23.0	25.0	-8.0
2,4,5-Trichlorophenol	17.48	17.40	17.54	23.2	25.0	-7.2
2,3,4-Trichlorophenol	19.03	18.95	19.09	25.1	25.0	0.4
2,3,5,6-Tetrachlorophenol	18.82	18.74	18.88	23.7	25.0	-5.2
2,3,4,5-Tetrachlorophenol	22.08	22.01	22.15	25.3	25.0	1.2
2,4-Dichlorophenol	13.82	13.75	13.89	249	250	-0.4
2,4,6-Tribromophenol (surr	20.94	20.87	21.01	23.9	25.0	-4.4

AVERAGE %D = 4.0

7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: ST98

Project: LORA LAKE APTS RI

GC Column: STX CLP1 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/13/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :0119

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	21.01	20.93	21.07	24.6	25.0	-1.6
2,4,6-Trichlorophenol	13.11	13.03	13.17	24.3	25.0	-2.8
2,3,6-Trichlorophenol	14.11	14.03	14.17	24.4	25.0	-2.4
2,4,5-Trichlorophenol	15.85	15.78	15.91	25.5	25.0	2.0
2,3,4-Trichlorophenol	17.36	17.28	17.42	23.8	25.0	-4.8
2,3,5,6-Tetrachlorophenol	17.16	17.08	17.22	24.7	25.0	-1.2
2,3,4,5-Tetrachlorophenol	20.17	20.08	20.22	23.3	25.0	-6.8
2,4-Dichlorophenol	12.57	12.48	12.62	282	250	12.8
2,4,6-Tribromophenol (surr	18.61	18.53	18.67	24.9	25.0	-0.4

AVERAGE %D = 3.9

7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: ST98

Project: LORA LAKE APTS RI

GC Column: STX CLP2 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/13/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :0119

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	22.98	22.90	23.04	23.4	25.0	-6.4
2,4,6-Trichlorophenol	14.32	14.24	14.38	24.0	25.0	-4.0
2,3,6-Trichlorophenol	15.57	15.49	15.63	23.3	25.0	-6.8
2,4,5-Trichlorophenol	17.48	17.40	17.54	22.9	25.0	-8.4
2,3,4-Trichlorophenol	19.03	18.95	19.09	24.7	25.0	-1.2
2,3,5,6-Tetrachlorophenol	18.82	18.74	18.88	23.8	25.0	-4.8
2,3,4,5-Tetrachlorophenol	22.09	22.01	22.15	24.5	25.0	-2.0
2,4-Dichlorophenol	13.83	13.75	13.89	248	250	-0.8
2,4,6-Tribromophenol (surr)	20.95	20.87	21.01	24.0	25.0	-4.0

AVERAGE %D = 4.3

7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: ST98

Project: LORA LAKE APTS RI

GC Column: STX CLP1 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/13/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :0609

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	21.01	20.93	21.07	25.0	25.0	0.0
2,4,6-Trichlorophenol	13.11	13.03	13.17	24.8	25.0	-0.8
2,3,6-Trichlorophenol	14.11	14.03	14.17	24.8	25.0	-0.8
2,4,5-Trichlorophenol	15.85	15.78	15.91	26.0	25.0	4.0
2,3,4-Trichlorophenol	17.36	17.28	17.42	24.5	25.0	-2.0
2,3,5,6-Tetrachlorophenol	17.16	17.08	17.22	25.2	25.0	0.8
2,3,4,5-Tetrachlorophenol	20.16	20.08	20.22	23.9	25.0	-4.4
2,4-Dichlorophenol	12.56	12.48	12.62	285	250	14.0
2,4,6-Tribromophenol (surr	18.60	18.53	18.67	24.7	25.0	-1.2

AVERAGE %D = 3.1

7E
 CHLOROPHENOL CALIBRATION VERIFICATION SUMMARY

Lab Name: ANALYTICAL RESOURCES, INC

Client: FLOYD SNIDER

ARI Job No.: ST98

Project: LORA LAKE APTS RI

GC Column: STX CLP2 ID: 0.53 (mm)

Init. Calib. Date(s): 05/04/11 05/04/11

Client Sample No. (PCP):

Date Analyzed :05/13/11

Lab Sample ID (PCP): PCP CCAL

Time Analyzed :0609

PCP MIX COMPOUND	RT	RT WINDOW		CALC AMOUNT	NOM AMOUNT	%D
		FROM	TO			
Pentachlorophenol	22.98	22.90	23.04	25.2	25.0	0.8
2,4,6-Trichlorophenol	14.32	14.24	14.38	24.6	25.0	-1.6
2,3,6-Trichlorophenol	15.57	15.49	15.63	23.9	25.0	-4.4
2,4,5-Trichlorophenol	17.48	17.40	17.54	24.2	25.0	-3.2
2,3,4-Trichlorophenol	19.03	18.95	19.09	26.3	25.0	5.2
2,3,5,6-Tetrachlorophenol	18.82	18.74	18.88	24.7	25.0	-1.2
2,3,4,5-Tetrachlorophenol	22.09	22.01	22.15	26.6	25.0	6.4
2,4-Dichlorophenol	13.83	13.75	13.89	260	250	4.0
2,4,6-Tribromophenol (surr	20.95	20.87	21.01	25.0	25.0	0.0

AVERAGE %D = 3.0

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER
 ARI Job No.: ST98 Project: LORA LAKE APTS RI
 GC Column: STX CLP1 ID: 0.53 (mm) Instrument ID: ECD1
 Init. Calib. Date(s): 05/04/11 05/04/11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 18.60					
CLIENT	LAB	DATE	TIME	S1	
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	#
=====	=====	=====	=====	=====	=====
01		05/04/11	1356	18.60	
02		05/04/11	1432	18.60	
03		05/04/11	1508	18.60	
04		05/04/11	1544	18.60	
05		05/04/11	1621	18.60	
06		05/04/11	1657	18.60	
07	ZZZZZ	05/04/11	1733	18.60	
08	ZZZZZ	05/12/11	1515	----	
09	ZZZZZ	05/12/11	1535	----	
10	ZZZZZ	05/12/11	1555	----	
11	ZZZZZ	05/12/11	1615	18.60	
12		05/12/11	1652	18.60	
13	ST99MBW1	05/12/11	1728	18.60	
14	ST99LCSW1	05/12/11	1804	18.60	
15	ZZZZZ	05/12/11	1841	18.60	
16	ZZZZZ	05/12/11	1917	18.60	
17	ZZZZZ	05/12/11	1953	18.60	
18		05/12/11	2029	18.60	
19	MW02-042611	05/12/11	2106	18.60	
20	MW03-042611	05/12/11	2142	18.60	
21	MW13-042611	05/12/11	2218	18.60	
22	MW06-042611	05/12/11	2255	18.60	
23	MW06-042611	05/12/11	2331	18.60	
24	MW06-042611	05/13/11	0007	18.60	
25	ZZZZZ	05/13/11	0043	18.60	
26		05/13/11	0119	18.61	
27	MW07-042711	05/13/11	0155	18.61	
28	MW11-042711	05/13/11	0232	18.61	
29	MW10-042711	05/13/11	0308	18.61	
30	MW09-042711	05/13/11	0344	18.61	
31	MW08-042711	05/13/11	0420	18.61	
32	MW12-042711	05/13/11	0456	18.61	

QC LIMITS
 S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER
 ARI Job No.: ST98 Project: LORA LAKE APTS RI
 GC Column: STX CLP1 ID: 0.53 (mm) Instrument ID: ECD1
 Init. Calib. Date(s): 05/04/11 05/04/11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 18.60					
	CLIENT	LAB	DATE	TIME	S1
	SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT #
	=====	=====	=====	=====	=====
01	ZZZZZ	ZZZZZ	05/13/11	0533	18.61
02		PCP CCAL	05/13/11	0609	18.60

QC LIMITS

S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER
 ARI Job No.: ST98 Project: LORA LAKE APTS RI
 GC Column: STX CLP2 ID: 0.53 (mm) Instrument ID: ECD1
 Init. Calib. Date(s): 05/04/11 05/04/11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 20.94					
CLIENT	LAB	DATE	TIME	S1	
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	#
=====	=====	=====	=====	=====	=====
01	PCPD	05/04/11	1356	20.94	
02	PCPA	05/04/11	1432	20.94	
03	PCPB	05/04/11	1508	20.94	
04	PCPC	05/04/11	1544	20.94	
05	PCPE	05/04/11	1621	20.94	
06	PCPF	05/04/11	1657	20.94	
07	ZZZZZ	05/04/11	1733	20.94	
08	ZZZZZ	05/12/11	1515	----	
09	ZZZZZ	05/12/11	1535	----	
10	ZZZZZ	05/12/11	1555	----	
11	ZZZZZ	05/12/11	1615	20.94	
12	PCP CCAL	05/12/11	1652	20.94	
13	ST99MBW1	05/12/11	1728	20.94	
14	ST99LCSW1	05/12/11	1804	20.94	
15	ZZZZZ	05/12/11	1841	20.94	
16	ZZZZZ	05/12/11	1917	20.94	
17	ZZZZZ	05/12/11	1953	20.94	
18	PCP CCAL	05/12/11	2029	20.94	
19	MW02-042611	05/12/11	2106	20.94	
20	MW03-042611	05/12/11	2142	20.94	
21	MW13-042611	05/12/11	2218	20.94	
22	MW06-042611	05/12/11	2255	20.94	
23	MW06-042611	05/12/11	2331	20.94	
24	MW06-042611	05/13/11	0007	20.94	
25	ZZZZZ	05/13/11	0043	20.95	
26	PCP CCAL	05/13/11	0119	20.95	
27	MW07-042711	05/13/11	0155	20.95	
28	MW11-042711	05/13/11	0232	20.95	
29	MW10-042711	05/13/11	0308	20.95	
30	MW09-042711	05/13/11	0344	20.95	
31	MW08-042711	05/13/11	0420	20.95	
32	MW12-042711	05/13/11	0456	20.95	

QC LIMITS
 S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

8
CHLOROPHENOL ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: FLOYD SNIDER
 ARI Job No.: ST98 Project: LORA LAKE APTS RI
 GC Column: STX CLP2 ID: 0.53 (mm) Instrument ID: ECD1
 Init. Calib. Date(s): 05/04/11 05/04/11

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
 SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION					
S1 : 20.94					
CLIENT	LAB	DATE	TIME	S1	
SAMPLE NO.	SAMPLE ID	ANALYZED	ANALYZED	RT	#
=====	=====	=====	=====	=====	=====
01 ZZZZZ	ZZZZZ	05/13/11	0533	20.95	
02	PCP CCAL	05/13/11	0609	20.95	

QC LIMITS

S1 = 2,4,6-Tribromophenol (+/- 0.07 MINUTES)

* Values outside of QC limits.

**TPHD Analysis
Report and Summary QC Forms**

ARI Job ID: ST98, SU21

**ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS**

NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1
Matrix: Water

QC Report No: ST98-Floyd Snider
Project: Lora Lake Apts RI
POS-LLA T.4010

Data Release Authorized: *AS*
Reported: 05/06/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
ST98A 11-9409	MW02-042611 HC ID: ---	05/02/11	05/05/11 FID3B	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 79.8%
ST98B 11-9410	MW03-042611 HC ID: ---	05/02/11	05/05/11 FID3B	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 76.7%
ST98C 11-9411	MW13-042611 HC ID: ---	05/02/11	05/05/11 FID3B	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 74.9%
MB-050211 11-9412	Method Blank HC ID: ---	05/02/11	05/05/11 FID3B	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 83.1%
ST98D 11-9412	MW06-042611 HC ID: DIESEL	05/02/11	05/05/11 FID3B	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	0.18 < 0.20 U 73.2%

Reported in mg/L (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

**ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS**

NWTPHD by GC/FID-Silica and Acid Cleaned
Page 1 of 1
Matrix: Water

QC Report No: SU21-Floyd Snider
Project: Lora Lake Apartments RI
POS-LLA Task 4010

Data Release Authorized: *[Signature]*
Reported: 05/06/11

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DL	Range	RL	Result
SU21A 11-9507	MW07-042711 HC ID: ---	05/02/11	05/05/11 FID3B	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 69.6%
SU21B 11-9508	MW11-042711 HC ID: ---	05/02/11	05/05/11 FID3B	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 90.9%
SU21C 11-9509	MW10-042711 HC ID: ---	05/02/11	05/05/11 FID3B	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 74.4%
SU21D 11-9510	MW09-042711 HC ID: ---	05/02/11	05/05/11 FID3B	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 78.9%
SU21E 11-9511	MW08-042711 HC ID: ---	05/02/11	05/05/11 FID3B	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 81.4%
MB-050211 11-9512	Method Blank HC ID: ---	05/02/11	05/05/11 FID3B	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 83.1%
SU21F 11-9512	MW12-042711 HC ID: ---	05/02/11	05/05/11 FID3B	1.00 1.0	Diesel Motor Oil o-Terphenyl	0.10 0.20	< 0.10 U < 0.20 U 77.9%

Reported in mg/L (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: ST98-Floyd Snider
Project: Lora Lake Apts RI
POS-LLA T.4010

<u>Client ID</u>	<u>OTER</u>	<u>TOT OUT</u>
MW02-042611	79.8%	0
MW03-042611	76.7%	0
MW13-042611	74.9%	0
MB-050211	83.1%	0
LCS-050211	73.4%	0
LCSD-050211	72.6%	0
MW06-042611	73.2%	0
MW06-042611 MS	63.1%	0
MW06-042611 MSD	68.7%	0

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl

(53-123)

(49-118)

Prep Method: SW3510C
Log Number Range: 11-9409 to 11-9412

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: SU21-Floyd Snider
Project: Lora Lake Apartments RI
POS-LLA Task 4010

<u>Client ID</u>	<u>OTER</u>	<u>TOT OUT</u>
MW07-042711	69.6%	0
MW11-042711	90.9%	0
MW10-042711	74.4%	0
MW09-042711	78.9%	0
MW08-042711	81.4%	0
MB-050211	83.1%	0
LCS-050211	73.4%	0
LCS-050211	72.6%	0
MW12-042711	77.9%	0

LCS/MB LIMITS QC LIMITS

(OTER) = o-Terphenyl

(53-123)

(49-118)

Prep Method: SW3510C
Log Number Range: 11-9507 to 11-9512

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID-Silica and Acid Cleaned

Page 1 of 1

Sample ID: MW06-042611

MS/MSD

Lab Sample ID: ST98D

QC Report No: ST98-Floyd Snider

LIMS ID: 11-9412

Project: Lora Lake Apts RI

Matrix: Water

POS-LLA T.4010

Data Release Authorized: *B*

Date Sampled: 04/26/11

Reported: 05/06/11

Date Received: 04/26/11

Date Extracted MS/MSD: 05/02/11

Sample Amount MS: 500 mL

MSD: 500 mL

Date Analyzed MS: 05/05/11 15:55

Final Extract Volume MS: 1.0 mL

MSD: 05/05/11 16:19

MSD: 1.0 mL

Instrument/Analyst MS: FID/MS

Dilution Factor MS: 1.00

MSD: FID/MS

MSD: 1.00

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	0.18	2.41	3.00	74.3%	2.50	3.00	77.3%	3.7%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	63.1%	68.7%

Results reported in mg/L

RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET

NWTPHD by GC/FID-Silica and Acid Cleaned

Page 1 of 1

Sample ID: LCS-050211

LCS/LCSD

Lab Sample ID: LCS-050211

LIMS ID: 11-9412

Matrix: Water

Data Release Authorized: *[Signature]*

Reported: 05/06/11

QC Report No: ST98-Floyd Snider

Project: Lora Lake Apts RI

POS-LLA T.4010

Date Sampled: 04/26/11

Date Received: 04/26/11

Date Extracted LCS/LCSD: 05/02/11

Sample Amount LCS: 500 mL

LCSD: 500 mL

Date Analyzed LCS: 05/05/11 12:26

Final Extract Volume LCS: 1.0 mL

LCSD: 05/05/11 12:49

LCSD: 1.0 mL

Instrument/Analyst LCS: FID/MS

Dilution Factor LCS: 1.00

LCSD: FID/MS

LCSD: 1.00

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	2.39	3.00	79.7%	2.48	3.00	82.7%	3.7%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	73.4%	72.6%

Results reported in mg/L

RPD calculated using sample concentrations per SW846.

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

Matrix: Water
Date Received: 04/26/11

ARI Job: ST98
Project: Lora Lake Apts RI
POS-LLA T.4010

ARI ID	Client ID	Samp Amt	Final Vol	Prep Date
11-9409-ST98A	MW02-042611	500 mL	1.00 mL	05/02/11
11-9410-ST98B	MW03-042611	500 mL	1.00 mL	05/02/11
11-9411-ST98C	MW13-042611	500 mL	1.00 mL	05/02/11
11-9412-050211MB1	Method Blank	500 mL	1.00 mL	05/02/11
11-9412-050211LCS1	Lab Control	500 mL	1.00 mL	05/02/11
11-9412-050211LCS1	Lab Control Dup	500 mL	1.00 mL	05/02/11
11-9412-ST98D	MW06-042611	500 mL	1.00 mL	05/02/11
11-9412-ST98DMS	MW06-042611	500 mL	1.00 mL	05/02/11
11-9412-ST98DMSD	MW06-042611	500 mL	1.00 mL	05/02/11

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

Matrix: Water
Date Received: 04/27/11

ARI Job: SU21
Project: Lora Lake Apartments RI
POS-LLA Task 4010

ARI ID	Client ID	Samp Amt	Final Vol	Prep Date
11-9507-SU21A	MW07-042711	500 mL	1.00 mL	05/02/11
11-9508-SU21B	MW11-042711	500 mL	1.00 mL	05/02/11
11-9509-SU21C	MW10-042711	500 mL	1.00 mL	05/02/11
11-9510-SU21D	MW09-042711	500 mL	1.00 mL	05/02/11
11-9511-SU21E	MW08-042711	500 mL	1.00 mL	05/02/11
11-9512-050211MB1	Method Blank	500 mL	1.00 mL	05/02/11
11-9512-050211LCS1	Lab Control	500 mL	1.00 mL	05/02/11
11-9512-050211LCSD1	Lab Control Dup	500 mL	1.00 mL	05/02/11
11-9512-SU21F	MW12-042711	500 mL	1.00 mL	05/02/11